

# 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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WFAC Black Box Addition PKG 1

1801 Martin Luther King Dr.,  
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ISSUE FOR CONSTRUCTION

SHEET NUMBER	SHEET NAME
G-000	ARCHITECTURAL GENERAL
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G-021	TEXAS ACCESSIBILITY STANDARDS
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C100	NOTES
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C201	SITE FIRE PLAN
C202	DIMENSION CONTROL & PAVING PLAN
C300	EXISTING CONDITIONS & DEMO PLAN
C400	GRADING PLAN
C401	CRAWLSPACE
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S-303	SECTION
S-304	SECTION
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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
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PLUMBING	
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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:
  - PROVIDE SEPARATE PRICING TO REMOVE MUD SLAB DOWN TO A PATHWAYS FROM THE FLOOR HATCH TO THE PLUMBING DRAINS. REFER TO SHEET A-100.
  - 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
AD	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	RAD	radius	UNFN	unfinished
ARCH	architect / architectural	GBV	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	VERT	vertical
BLDG	building	GWB	gypsum wall board	REQD	required	VVF	verify in field
BLKG	blocking	GYP	gypsum	RESL	resilient	VTR	vert termination pipe
BLW	below	H	H.W.H.	RESL	resilient	VWC	vinyl wall covering
BM	beam	H.W.H.	hot water heater	S	south	W	west
BOT	bottom	HC	handicapped	SAFB	sound attenuation fiber batt	W/	with
BRKT	bracket	HDW	hardware	SC	scupper	W/O	without
BULKHD	bulkhead	HDM	hardwood	SCHED	schedule	WC	water closet
BUR	built up roof	HM	hollow metal	SECT	section	WIN	window
C	corner guard	HORZ	horizontal	SECT	section	WP	waterproof
C.G.	corner guard	HR	hour	SF	square foot	WS	wetstack
CAB	cabinet	HT	height	SHT	sheet	WSTC	wainscot
CAK	caulking	I	inner diameter	SIM	similar	X	weight
CEM	cement	ID	inner diameter	SPEC	specification	XPS	extruded polystyrene
CER	ceramic	INCAN	incandescent	SS	stainless steel	STL	steel
CJ	control joint	INSUL	insulation	STD	standard	STOR	storage
CLG	ceiling	INT	interior	STL	steel	STRUC	structural
CLS	ceiling	JAN	janitor	SUSP	suspended	SYM	symmetrical
CLR	clear	JST	joist	SYM	symmetrical		
CO	cased opening	JT	joint				
COL	column	CONT	continuous				
CONC	concrete	CPT	carpet				
CONT	continuous	CT	ceramic tile				
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						
FD	floor drain						
FE	fire extinguisher						
FEC	fire extinguisher cabinet						

### PROJECT GRAPHIC REFERENCES

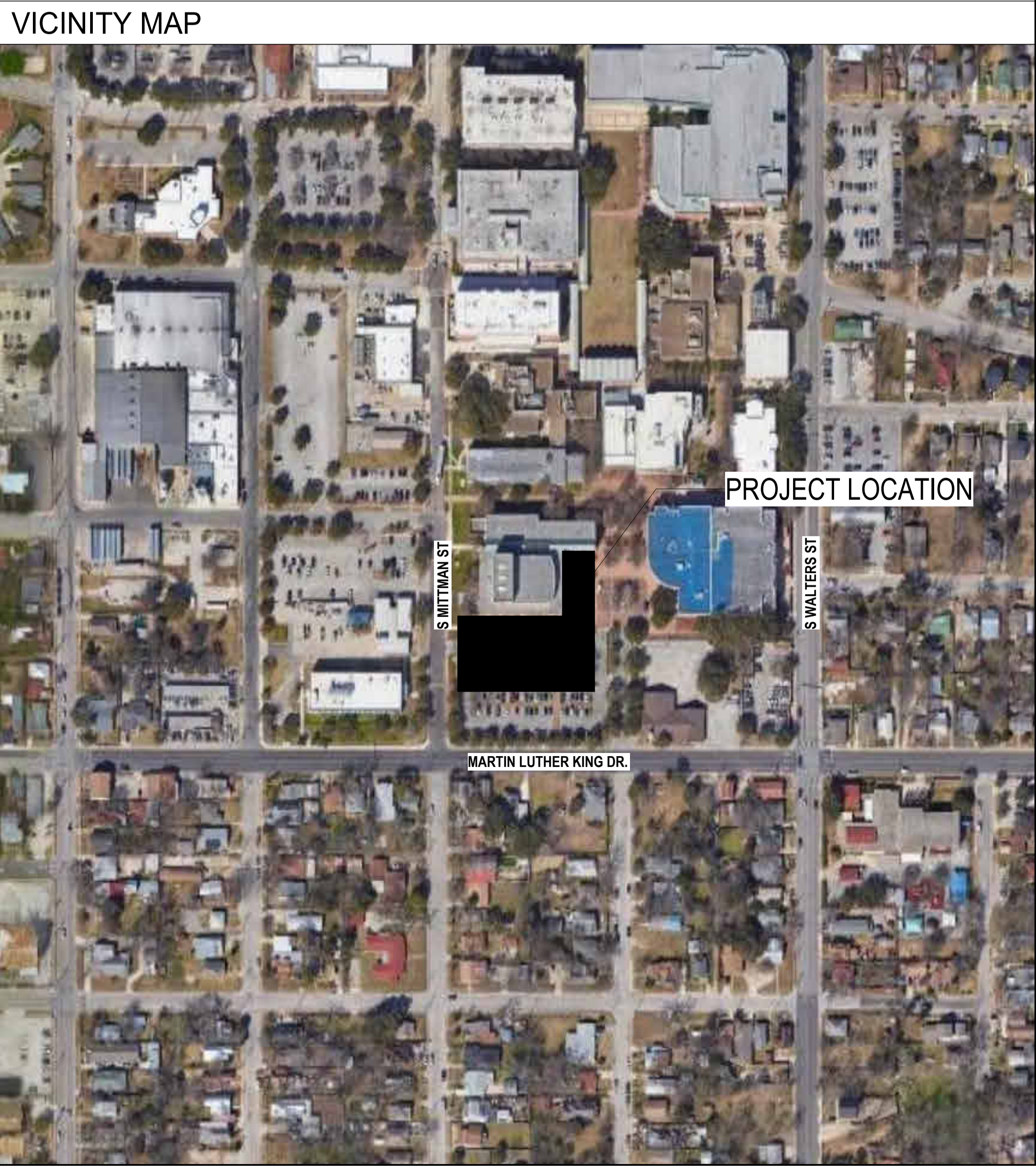
DISCIPLINE	SUBDISCIPLINE	0	GENERAL
-	NOT USED	1	PLANS (Site, Floor, Finish, Graphics)
G	GENERAL	2	CEILING
C	CIVIL	3	ROOF
CA	SPORTS CIVIL	4	ENLARGED PLANS
SA	SPORTS ARCH	5	ELEVATIONS (exterior & interior)
S	STRUCTURAL	6	SECTIONS (Big & Wall)
L	LANDSCAPE	7	BLDG DETAILS
D	DEMOLITION	8	DIAGRAMS/COMPILED SCHEDULES (Partition Types, Casework/Work, Door & Panel/Frame Types, Window Types)
A	ARCHITECTURAL	9	MISCELLANEOUS
M	MECHANICAL		
E	ELECTRICAL		
P	PLUMBING		
T	TECHNOLOGY		
FS	FOOD SERVICE		
AV	ACOUSTICAL		
TH	THEATRICAL		


### PROJECT GRAPHIC REFERENCES

PROJECT SYMBOLS	PROJECT SYMBOLS	CONSTRUCTION TYPE SYMBOLS

### 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 CRITERIA" 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.






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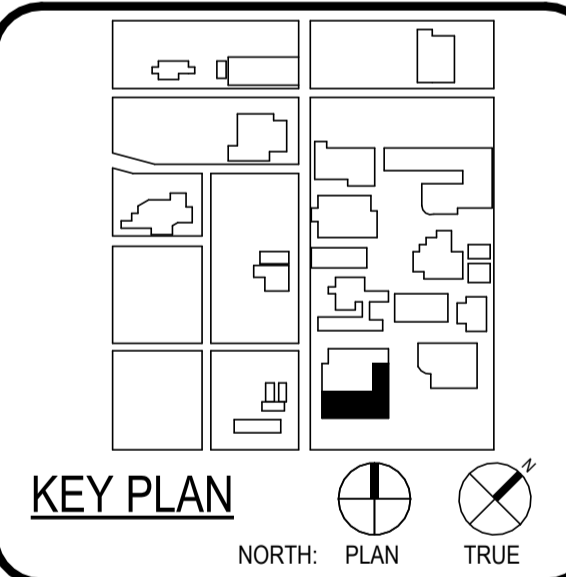
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 San Antonio, TX 78203


ISSUE FOR CONSTRUCTION



ALAMO COLLEGES  
 ST. PHILIP'S COLLEGE



KEY PLAN  
 NORTH, PLAN, TRUE



REGISTERED ARCHITECT  
 STATE OF TEXAS  
 No. 12345

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

DRAWING HISTORY

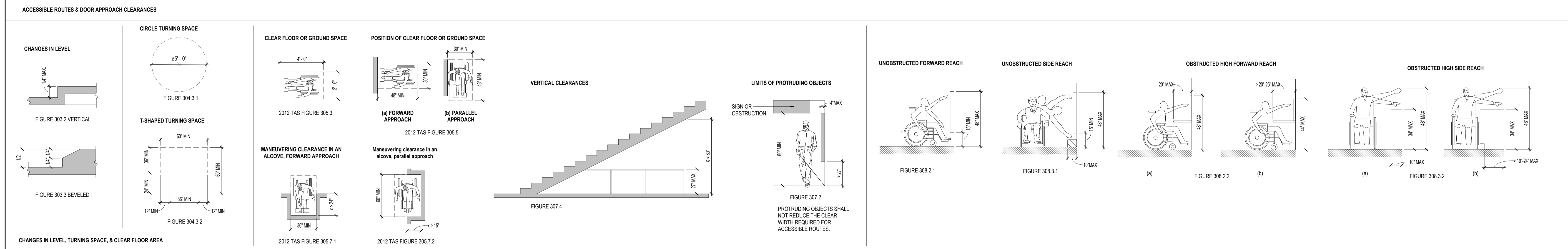
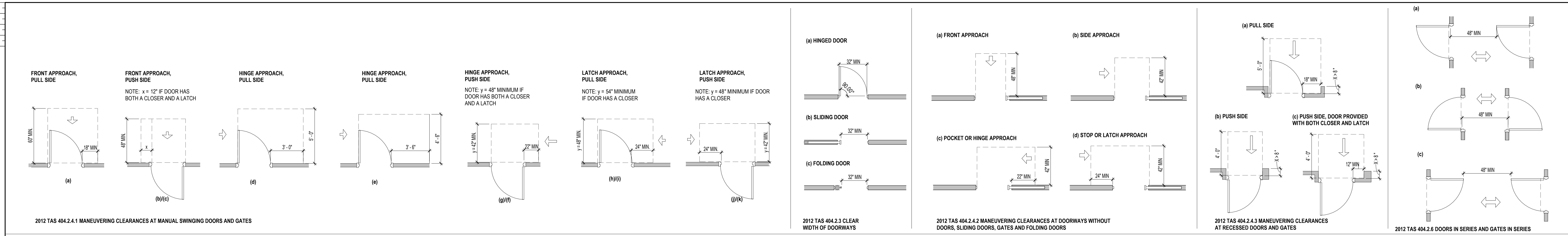
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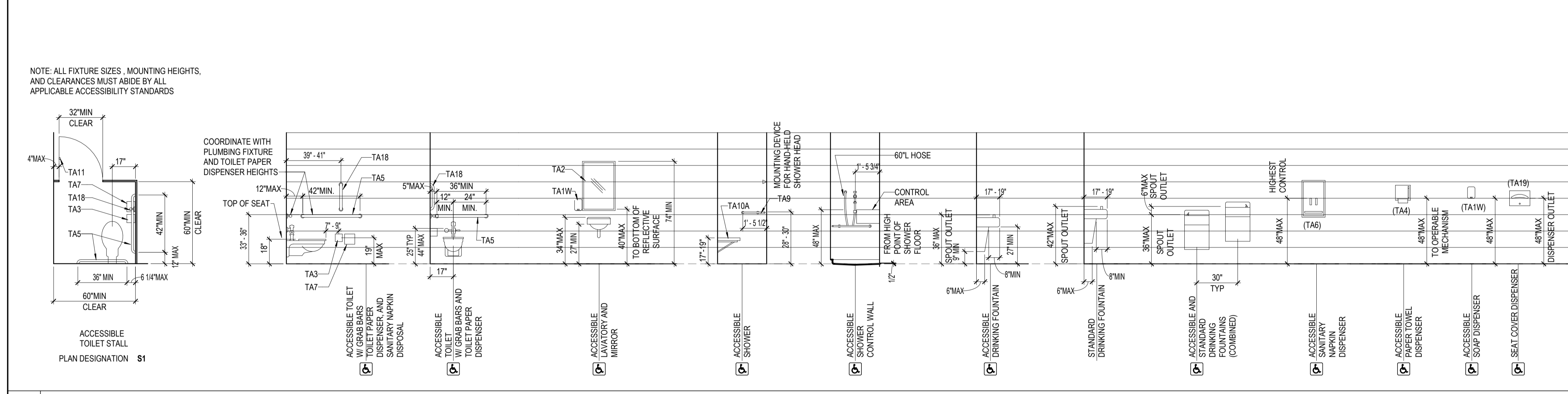
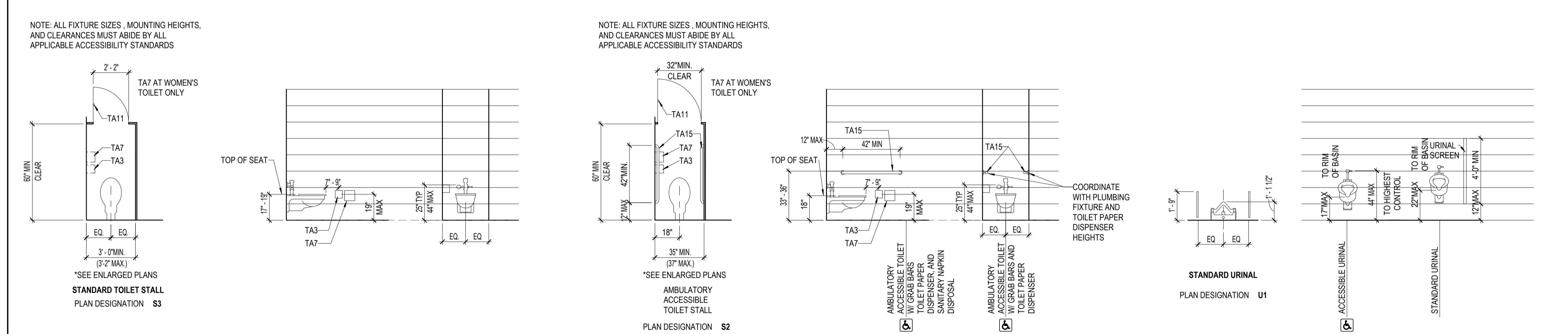
BUILDING NUMBER 1

GENERAL PROJECT INFORMATION

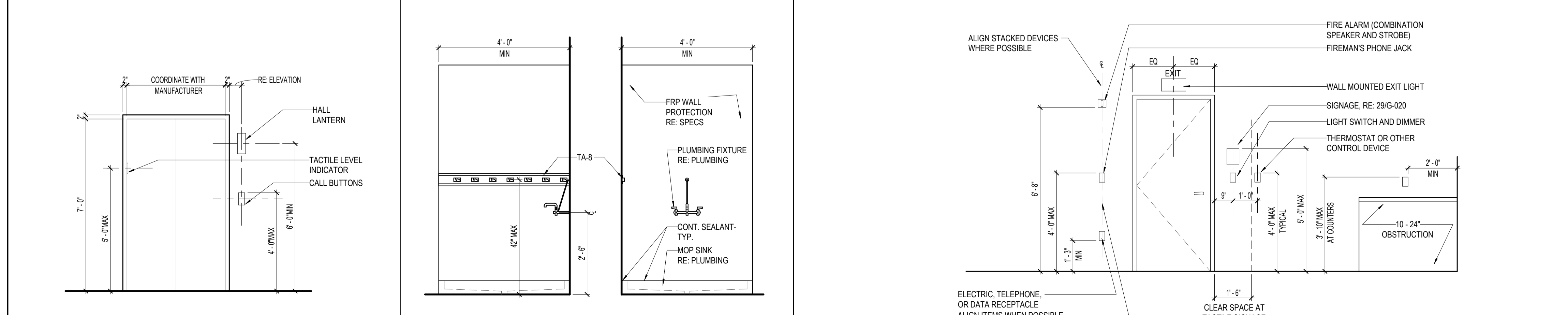
G-002



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



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



DESCRIPTION	AGES 13 - ADULT (GRADES 8 AND ABOVE)
WATER CLOSET: To Top of Seat	17" - 19"
Grab Bar Height	33" - 38"
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" - 38"
To Hand Shower Head Mounting (Max)	48"

**06 TYP ELEVATOR DOOR**  
3/8" = 1'-0"

**05 TYP CUSTODIAL CLOSET**  
1/2" = 1'-0"

**04 MISC MOUNTING HEIGHTS**  
3/8" = 1'-0"

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

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

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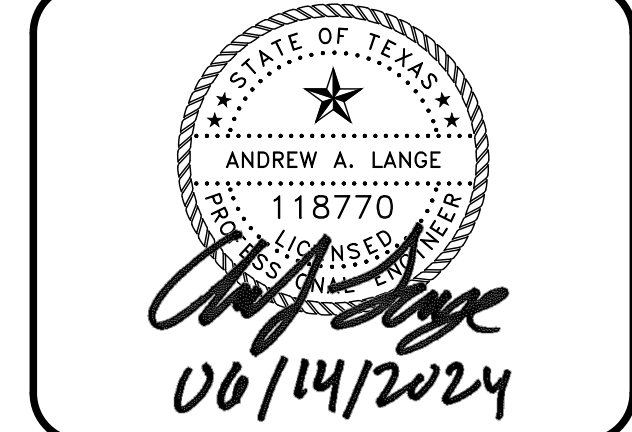
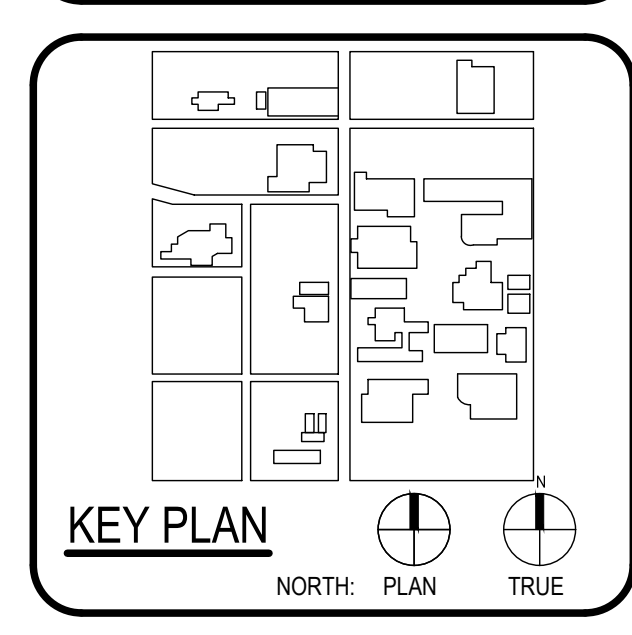
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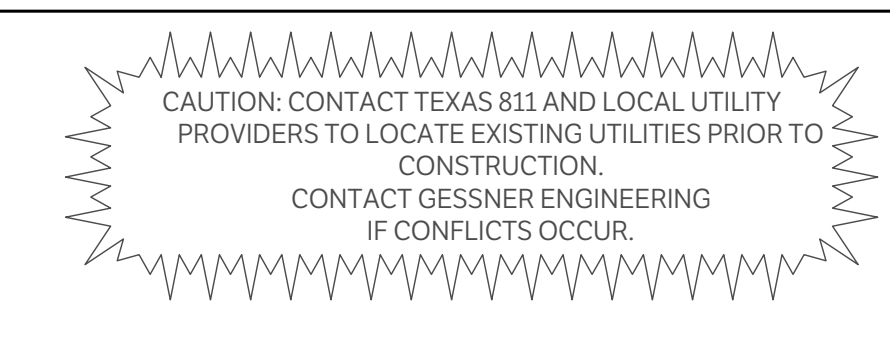


CLIENT: Alamo Colleges, DATE: 2024/06/12, PROJECT NUMBER: 230462

ISSUE FOR CONSTRUCTION table with columns: No., Description, Date

NOTES, DECEMBER 2009, CITY OF SAN ANTONIO, CITY OF SAN ANTONIO GENERAL NOTES

C100



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WATER NOTES:

- 1. ALL WATER LINES TO BE POLYVINYL CHLORIDE (PVC), AWWA C-900, DR14. 2. POTABLE WATER LINES SHALL BE CONSTRUCTED IN ACCORDANCE WITH CURRENT TCEQ REGULATIONS, CHAPTER 290. LOCAL JURISDICTIONAL REGULATIONS, AND IN ACCORDANCE WITH THE 2012 INTERNATIONAL PLUMBING CODE. 3. SEPARATION OF PUBLIC WATER AND WASTEWATER MAINS SHALL BE CONSISTENT WITH THE CURRENT RULES & REGULATIONS FOR PUBLIC WATER SYSTEMS OF THE TCEQ. 4. ALL SECTIONS OF THE POTABLE WATER DISTRIBUTION SYSTEM SYSTEM SHALL BE INSTALLED NO CLOSER THAN NINE FEET IN ALL DIRECTIONS TO THE SANITARY SEWER SYSTEM FACILITIES. DISTANCE SHALL BE MEASURED FROM THE OUTSIDE SURFACE OF EACH OF THE RESPECTIVE PIECES, IF NINE FEET OF SEPARATION CANNOT BE MET, FOLLOW CURRENT TCEQ CHAPTER 217.53 (D) AND 290.44(E) REGULATIONS, IF CONFLICTS OCCUR, CONTACT ENGINEER.

DRAINAGE AREA MAP NOTES:

- 1. THIS SHEET IS FOR SITE PLANNING PURPOSES ONLY. IT IS NOT TO BE USED AS A DOCUMENT FOR CONSTRUCTION. 2. DRAINAGE CALCULATIONS WERE PERFORMED UTILIZING NRCS AND RATIONAL METHODOLOGIES.

- 11. ALL DISTURBED AREAS NOT TO BE PAVED OR LANDSCAPED ARE TO BE PREPARED AND HYDROMULCH OR SEEDED OR SOD INSTALLED FOR PERMANENT ESTABLISHMENT OF VEGETATION. PRIOR TO OPERATIONS, CONTRACTOR IS TO REPLACE AND CONSOLIDATE TOPSOIL TO A DEPTH OF 6" MINIMUM. TOPSOIL TO BE HARLEYRAKE/TILLED TO A DEPTH OF 4" PRIOR TO SEEDING OR INSTALLATION OF SOD. FINAL GRADES WITH ESTABLISHED VEGETATION SHALL PROVIDE POSITIVE DRAINAGE. REVEGETATION PER BEST AVAILABLE TECHNICAL SPECIFICATIONS. SEE 42-293-19 SEEDING FOR EROSION CONTROL OR PROVIDE TEXAS TOUGH® BERMU-DGRASS AT 1.25 LBS PER THOUSAND SQUARE FEET. BERMUDAGRASS SHALL BE DRILL SEEDING TO A DEPTH OF 1/8" TO 1/4". 12. TENANT/END USER OR OWNER OR CONTRACTOR SHALL MAINTAIN EROSION CONTROL UNTIL ALL LANDSCAPE AREAS ARE ESTABLISHED. TENANT/END USER OR OWNER OR CONTRACTOR IS RESPONSIBLE FOR CLEANUP FROM LANDSCAPING MATERIALS. MULCH OR LANDSCAPE SEDIMENT TRANSPORT THAT MAY OCCUR AFTER LANDSCAPE INSTALLATION INCLUDING MAINTENANCE OF GRATES AND TRENCH DRAINS.

PAVEMENT NOTES:

- 1. SUBGRADE: 1.A. EXISTING VEGETATION, TREES, STUMPS, AND ROOTS SHALL BE GRUBBED AND REMOVED. THE TOP 6" OF TOPSOIL AND SUBGRADE STRIPPED FROM THE AREAS TO BE COVERED BY PAVEMENT. 1.B. PAVING AREAS SHALL BE PROOF-ROLLED WITH A 20 TON COMPACTOR AND, IF REQUIRED AT THE TIME OF CONSTRUCTION, THE CONTRACTOR SHALL STABILIZE WEAK AREAS BY OVER EXCAVATING AND BACKFILLING WITH SPECIFIED MATERIALS. 1.C. FILL MATERIAL FOR STRUCTURAL AREAS (EXTENDING 5 FOOT BEYOND EDGE OF PAVEMENT OR BACK OF CURB) SHALL MEET THE SPECIFIED MATERIALS OR MATERIALS AS OUTLINED IN THE GEOTECH REPORT. BE PLACED IN 8" MAXIMUM LIFTS PRIOR TO COMMENCING CONSTRUCTION. ELEVATION OF THE LIME OR CEMENT SHOULD BE DETERMINED BY THE STANDARD PROCTOR (ASTM D698) WITH A MOISTURE CONTENT OF +1-2% OF OPTIMUM. 1.D. COMPACTION AND MOISTURE CONTROL SHALL BE VERIFIED BY IN-PLACE DENSITY TEST FOR EACH LIFT FOR EVERY 200 LINEAR FEET OF PAVEMENT OR EVERY 3,000 SQ. FT. ON SILTS, WHICH EVER WOULD PROVIDE THE GREATER TESTING FREQUENCY, WITH A MINIMUM OF ONE TEST PER LIFT. 1.E. SOILS SHALL BE STABILIZED WITH LIME TREATMENT IF PAVEMENT SUBGRADE SOILS CONSIST OF CLAYS OR CLAYEY SANDS OR HIGH PLASTICITY (PI > 20). 1.F. SOILS SHALL BE STABILIZED WITH PORTLAND CEMENT TREATMENT IF PAVEMENT SUBGRADE SOILS CONSIST OF SANDS OR SILTS WITH LOW PLASTICITY (PI < 15). 1.G. STABILIZATION SHALL BE ACCOMPLISHED SUCH THAT A UNIFORM SUBGRADE MIX IS OBTAINED AND SHALL EXTEND TO 2 FOOT BEYOND THE BACK OF CURB OR EDGE OF PAVEMENT. PRIOR TO THE APPLICATION OF LIME OR CEMENT TO THE SUBGRADE, THE OPTIMUM PERCENTAGE TO BE USED SHALL BE DETERMINED BASED ON TEX-121-E LABORATORY TESTS (LIME) AND TEX-120-E LABORATORY TESTS (CEMENT) CONDUCTED ON MIXTURES OF THE SUBGRADE SOILS WITH VARYING PERCENTAGES. SUBGRADE SOIL SAMPLES SHOULD BE OBTAINED FROM THE PAVEMENT AREA AT THE PROPOSED FINAL SUBGRADE ELEVATION. THE LIME OR CEMENT SHOULD INITIALLY BE BLENDED WITH A MIXING DEVICE SUCH AS PULVERIZER OR MIXER AND SUFFICIENT WATER ADDED. 1.H. THE AMOUNT OF LIME REQUIRED FOR STABILIZATION SHOULD BE THE PERCENT REQUIRED BY WEIGHT TO PRODUCE A PI NOT LESS THAN 12 AND TO PROVIDE A PI VALUE OF LESS THAN OR EQUAL TO 16. 1.I. THE AMOUNT OF CEMENT REQUIRED FOR STABILIZATION SHOULD BE THE PERCENT REQUIRED BY WEIGHT TO PRODUCE A MINIMUM COMPRESSION STRENGTH OF 50 PSI PRIOR TO BEING OPEN TO LOCAL OR CONSTRUCTION TRAFFIC. 2. CONCRETE PAVEMENT: 2.A. CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4,000 PSI. 2.B. ALL CONCRETE SHALL BE VIBRATED WHEN PLACED. 2.C. PAVEMENT CONTRACTION JOINTS SHALL BE INSTALLED PER PLAN AND DETAIL SHEET, WITH A MAXIMUM SPACING OF 24 TIMES THE THICKNESS OF THE PAVEMENT (2' FOR 6" PAVEMENT). CONTRACTION JOINTS SHALL BE INSTALLED AS SOON AS CONCRETE CURING ALLOWS AND SHALL BE CUT 1/4 OF THE THICKNESS OF THE PAVEMENT. AN EARLY ENTRY SAW IS PREFERRED. TOOLED OR FORMED JOINTS ARE NOT ALLOWED. PAVEMENT EXPANSION JOINTS SHALL BE SPACED AS OUTLINED IN THE CONTRACT DRAWING DETAIL SHEET. CONSTRUCTION SHALL BE STOPPED AT EXPANSION JOINTS, IF CONDITIONS REQUIRE, CONSTRUCTION TO BE STOPPED AT OTHER LOCATIONS, A COOLD JOINT SHALL BE CONSTRUCTED. 2.E. ISOLATION JOINTS SHALL BE PLACED AT ALL IN-PAVEMENT OBJECTS INCLUDING INLETS, LIGHT POLE FOOTINGS, CLEANOUTS, ETC. 2.F. ALL JOINTS SHALL BE SEALED. PROVIDE EXPANSION JOINT WATER STOP CAPS AT NEW CONCRETE. PROVIDE EXPANSION JOINT SEALANT AT NEW TO EXISTING PAVEMENT. 2.G. REFERENCE DETAIL, SHEETS FOR PAVEMENT AND SIDEWALK CONSTRUCTION DETAILS. 2.H. TRANSPORTATION AND PLACEMENT OF THE CONCRETE SHALL BE IN ACCORDANCE WITH AC3 301. A TEST SET CONSISTING OF 4 CYLINDERS SHALL BE TAKEN FOR EVERY 75 CUBIC YARDS OF CONCRETE. 3. REINFORCING STEEL: 3.A. ALL REINFORCEMENT SHALL BE ASTM A-615, GRADE 60. THE PAVEMENT REINFORCEMENT SHALL BE PER DETAILS. 3.B. LAPS AND SPLICES IN REINFORCING BARS SHALL BE A MINIMUM OF 30 BAR DIAMETERS IN LENGTH. BARS SHALL BE SECURED AT EVERY OTHER INTERSECTION. 4. CURB AND GUTTER SECTION: 4.A. EXPANSION JOINTS SHALL BE SPACED AT A MINIMUM DISTANCE OF 40' AND AT ALL RADIUS POINTS, PT'S AND PC'S AND SHALL BE SEALED. 4.B. CONTRACTION JOINTS SHALL BE SPACED AT A MAXIMUM OF 10' AND SHALL BE SEALED. TOOLED OR FORMED JOINTS ARE NOT ALLOWED. 5. PAINTING AND STRIPING: 5.A. ALL CURB AND PAINT STRIPING FOR THE PARKING AREA AS INDICATED ON THE PLAN. THE SOLID LINE REPRESENTS A 4" WIDE SOLID WHITE LINE TO BE PAINTED. CONTRACTOR IS RESPONSIBLE TO PAINT HANDICAP MARKINGS AND LOADING ZONES IN CONFORMANCE WITH CURRENT ADA/TAS STANDARDS AND ALL FIRE LANE MARKINGS IN ACCORDANCE WITH CITY OF BRYAN REQUIREMENTS. 5.B. MATERIALS AND METHODS FOR PAVEMENT MARKINGS SHALL CONFORM TO ITEM 666 OF THE TxDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION OF HIGHWAYS, STREETS, AND BRIDGES

STORM NOTES:

- 1. ALL STORM SEWER IS PROPOSED, UNLESS OTHERWISE NOTED. 2. ALL STORM LINES TO BE EITHER REINFORCED CONCRETE PIPE (RCP), C443 ASTM C76, CLASS III AND CLASS IV OR PVC. 3. TRENCH BACKFILL SHALL BE PER DETAILS. 4. STORM SEWER MATERIAL SHALL BE AS FOLLOWS FOR THE FOLLOWING INSTALLATIONS: 4.A. REINFORCED CONCRETE PIPE (RCP), ASTM C76, WALL B, CLASS III AND/OR CLASS IV, RUBBER GASKETED JOINT MEETING ASTM C643. 4.B. POLYVINYL CHLORIDE (PVC), ASTM D3034, SDR 26, TYPE PSM SEWER PIPE WITH BELL AND SPIGOT END FOR RUBBER GASKETED JOINTS MEETING ASTM F477. 4.C. REINFORCED CONCRETE BOX CULVERT (RCBC) PRECAST, ASTM C1577. 4.D. REINFORCED CONCRETE BOX CULVERT (RCBC) CAST-IN-PLACE, MEETING TxDOT DETAIL, 4,000 PSI CONCRETE 5. CONCRETE FOR INLETS, CATCH BASINS, JUNCTIONS, ETC. 5.A. MIN 4000 PSI-28 DAY STRENGTH FOR ITEMS UP TO 10' DIMENSION. 5.B. MIN 5000 PSI-28 DAY STRENGTH FOR ITEMS WITH GREATER THAN 10' DIMENSION. 6. CONTRACTOR IS TO USE SIL FILLING AROUND INLET AND JUNCTION BOXES AND GRAVEL FILLED PERMEABLE BAGS AROUND INLET BOXES AS NECESSARY TO PREVENT SEDIMENT FROM ENTERING STORM SEWER SYSTEM PRIOR TO ACCEPTANCE OF PROJECT FOR SUBSTANTIAL COMPLETION. CONTRACTOR IS TO CLEAN ALL STORM SEWER FACILITIES OF SEDIMENT. CONTRACTOR TO USE EROSION CONTROL LOGS AROUND CULVERT INLETS AND OUTLETS TO PREVENT SEDIMENT FROM ENTERING THE CULVERTS. PRIOR TO ACCEPTANCE OF PROJECT FOR SUBSTANTIAL COMPLETION, CONTRACTOR IS TO CLEAN ALL CULVERTS AND STORM FACILITIES OF SEDIMENT. 7. CONTRACTOR SHALL PROVIDE A MINIMUM OF 12 INCH CLEARANCE AT STORM SEWER AND WATER LINE CROSSINGS AND A MINIMUM OF 6 INCH CLEARANCE AT STORM AND SANITARY SEWER CROSSINGS.

SANITARY SEWER NOTES:

- 1. ALL SANITARY SEWER LINES TO BE POLYVINYL CHLORIDE (PVC), ASTM D3034, SDR-26, TYPE PSM SEWER PIPE WITH BELL AND SPIGOT END FOR RUBBER GASKETED JOINTS MEETING ASTM F477 SDR-26 PVC UNLESS OTHERWISE NOTED ON THE PLANS. 2. SANITARY SEWER LINES SHALL BE CONSTRUCTED IN ACCORDANCE WITH CURRENT TCEQ REGULATIONS, CHAPTER 217. LOCAL JURISDICTIONAL REGULATIONS, AND IN ACCORDANCE WITH THE 2012 INTERNATIONAL PLUMBING CODE. ALL SECTIONS OF THE SANITARY COLLECTION SYSTEM SHALL BE INSTALLED NO CLOSER THAN NINE FEET IN ALL DIRECTIONS TO THE POTABLE WATER DISTRIBUTION FACILITIES. ALL SEPARATION DISTANCE SHALL BE MEASURED FROM THE OUTSIDE SURFACE OF EACH OF THE RESPECTIVE PIECES, IF NINE FEET OF SEPARATION CANNOT BE MET, FOLLOW CURRENT TCEQ CHAPTER 217.53 (D) AND 290.44(E) REGULATIONS. IF CONFLICTS OCCUR, CONTACT ENGINEER. 4. ALL SANITARY SEWER LINES SHALL BE THOROUGHLY CLEANED, TESTED, AND APPROVED PRIOR TO ANY CONNECTIONS BEING MADE TO THE EXISTING SANITARY SEWER SYSTEM. 5. ALL SANITARY SEWER LINE TESTING SHALL BE IN ACCORDANCE WITH CURRENT TCEQ REGULATIONS AND THE SPECIFIC TESTING METHODS AS OUTLINED IN THE GEOTECH REPORT. TESTING SHALL BE CONDUCTED IN ACCORDANCE WITH 217.57. NO SAGS GREATER THAN 2" FROM THE DESIGNATED SLOPE MAY EXTEND FOR LONGER THAN 20' UPON VISUAL CCTV INSPECTION OR CONTRACTOR MUST ENGAGE SERVICES OF A LICENSED SURVEYOR TO VERIFY THE SLOPE OF ALL GRAVITY SANITARY SEWER LINES AND PRODUCE AS-BUILT ELEVATIONS. TBMU USE IS PROHIBITED. 8. MANHOLES SHALL BE PRE-CAST CONCRETE MEETING ASTM C478. THE USE OF BRICKS TO ADJUST A MANHOLE COVER TO GRADE OR CONSTRUCT A MANHOLE IS PROHIBITED. 9. THE INSIDE DIAMETER OF A MANHOLE MUST BE NO LESS THAN 48 INCHES. 10. THE BOTTOM OF A MANHOLE MUST CONTAIN A U-SHAPED CHANNEL THAT IS A SMOOTH CONTINUATION OF THE INLET AND OUTLET FIT PIPES. 11. A MANHOLE CONNECTION MUST USE WATERTIGHT, SIZE-ON-SIZE RESILIENT CONNECTORS THAT ALLOW FOR DIFFERENTIAL SETTLEMENT AND MUST CONFORM TO ASTM C-923.

GENERAL NOTES:

- 1. PRIOR TO CONSTRUCTION, THE CONTRACTOR MUST PROVIDE SUBMITTALS OF PROPOSED CONSTRUCTION MATERIALS FOR REVIEW BY THE DESIGN ENGINEER A MINIMUM OF 14 DAYS PRIOR TO REQUIRED USE. 2. PRELIMINARY MATERIALS SHALL BE FIELD PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. TIME AND LOCATION TO BE DETERMINED BY OWNER. 3. ALL BOUNDARY, TOPOGRAPHIC INFORMATION, AND SURVEY CONTROL WAS COMPLETED IN DECEMBER 2023 BY GEENSUR SURVEY. CHANGES IN SITE OR FIELD CONDITIONS MAY HAVE OCCURRED. 4. CONTRACTOR SHALL PROTECT ALL SURVEY MONUMENTATION, BENCHMARKS, AND MARKERS DURING CONSTRUCTION. 5. THE CONTRACTOR MUST PROVIDE CONSTRUCTION STAKING SERVICES BASED ON THE INFORMATION PROVIDED IN THE PLANS. 6. CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH FACILITY/PROPERTY OWNERS. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE DONE TO EXISTING FACILITIES, PAVEMENT, ETC. AS A RESULT OF CONSTRUCTION ACTIVITIES. 7. ALL ITEMS SHOWN ON THESE PLANS ARE ASSUMED NEW/PROPOSED UNLESS DESIGNATED OR SHOWN AS EXISTING AND SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR INCLUSIVE OF ANY MATERIALS, LABOR, EQUIPMENT, AND OTHER REQUIREMENTS FOR A COMPLETE AND FUNCTIONING SITE ELEMENT. ALL ITEMS NECESSARY FOR PROPER COMPLETION OF THE WORK NOT SPECIFICALLY CALLED FOR OR SPECIFIED ON THE PLANS ARE THE RESPONSIBILITY OF THE CONTRACTOR AND CONSIDERED SUBSIDIARY TO THE WORK. 8. ALL UTILITIES AND SERVICE LINES SHOWN ARE TAKEN FROM PREVIOUS 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, SURVEYOR, AND ENGINEER SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF INFORMATION OR DATA RELIED ON TO DEPICT UNDERGROUND FACILITIES. CONTRACTOR IS TO VERIFY THE EXACT LOCATION AND VERTICAL POSITIONING OF ALL PIPELINES, COMMUNICATION LINES, ELECTRICAL LINES, 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 CONTACT OWNERS OF ALL UTILITIES AND SERVICE LINES WITHIN THE PROJECT AREA AND NOTIFY OF INTENT AT LEAST 1 WEEK PRIOR TO CONSTRUCTION. 9. CONTRACTOR IS TO MAINTAIN STRUCTURAL INTEGRITY OF ALL PIPELINES, ELECTRIC TRANSMISSION POLES AND LINES, PERMANENT AND TEMPORARY UTILITIES, AND UTILITY SERVICES. 10. THE CONTRACTOR SHALL BE PROTECTIVE OF ALL EXISTING UTILITIES OR SERVICE LINES DURING THE CONSTRUCTION PROCESS. WHERE EXISTING UTILITIES OR SERVICE LINES ARE DAMAGED, THE CONTRACTOR SHALL REPAIR OR REPLACE THE UTILITY OR SERVICE LINE WITH THE SAME TYPE OF MATERIAL AND CONSTRUCTION, OR BETTER. ALL MATERIAL AND LABOR SHALL BE AT THE CONTRACTOR'S EXPENSE. 11. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND CONSTRUCTION ACTIVITY AT 811 OR HTTP://WWW.TEXAS811.ORG. THE CONTRACTOR SHALL ALSO NOTIFY APPLICABLE UTILITY COMPANIES THAT HAVE UTILITY LINES ON OR IN THE GENERAL VICINITY OF THIS PROJECT SITE AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL STANDARDS, SPECIFICATIONS, AND REGULATIONS. WHERE CONSTRUCTION DOCUMENTS CONFLICT WITH THOSE GUIDELINES, THE MORE STRINGENT REQUIREMENTS SHALL GOVERN. 12. CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN THESE PLANS AND ONSITE FIELD CONDITIONS OR SPECIFICATIONS OF OTHER DISCIPLINES. CONTRACTOR IS RESPONSIBLE TO REPORT ANY CONFLICTS WITHIN PLANS OR SPECIFICATIONS AND AVOID WRITTEN INSTRUCTIONS FROM ENGINEER OR ARCHITECT PRIOR TO STARTING CONSTRUCTION. 13. THE CONTRACTOR IS REQUIRED TO OBTAIN ALL NECESSARY PERMITS, AS WELL AS INSPECTION APPROVALS. A COPY OF APPROVED CONSTRUCTION PLANS SHALL BE KEPT ON SITE AT ALL TIMES THROUGHOUT CONSTRUCTION. THE CONTRACTOR SHALL MAINTAIN A SET OF THE ORIGINAL DRAWINGS TO RECORD AS-BUILT CONDITIONS. 14. DURING CONSTRUCTION, THE CONTRACTOR SHALL MAINTAIN AN ORDERLY PROJECT SITE. THE CONTRACTOR SHALL CLEAN, REMOVE, AND PROPERLY DISPOSE OF ANY SURPLUS OR DISCARDED MATERIALS, TEMPORARY STRUCTURES, AND DEBRIS FROM THE PROJECT SITE. 15. THE CONTRACTOR IS RESPONSIBLE FOR STORAGE AND SAFE-GUARDING OF ALL MATERIALS AND EQUIPMENT AT THE PROJECT SITE TO MAINTAIN A SAFE AND SECURE PROJECT. 17. THE CONTRACTOR SHALL COORDINATE SITE STORAGE WITH THE PROPERTY OWNER, (SEPARATELY AND IN WRITING IF UTILIZING OFF-SITE PROPERTY). 18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTAINMENT AND PROPER DISPOSAL OF ALL LIQUID AND SOLID WASTE ASSOCIATED WITH THIS PROJECT. THE CONTRACTOR SHALL USE ALL MEANS NECESSARY TO PREVENT THE OCCURRENCE OF WIND BLOWN LITTER FROM THE PROJECT SITE. THE SITE IS REQUIRED TO PROVIDE CONTAINMENT FOR WASTE PRIOR TO AND DURING DEMOLITION. SOLID WASTE ROLL OFF BOXES AND/OR METAL DUMPSTER SHALL BE SUPPLIED BY THE CONTRACTOR. 19. CONTRACTOR IS TO CONFINED ALL WORK TO OWNER'S PROPERTY. NO CONSTRUCTION ACTIVITY IS ALLOWED ON OR THROUGH PRIVATE PROPERTY UNLESS COVERED BY A PUBLIC UTILITY EASEMENT OR OTHER DOCUMENTED AGREEMENT. ANY ADJACENT RIGHT-OF-WAY (R.O.W.) OR PROPERTY ADJACENT DURING CONSTRUCTION SHALL BE RETURNED TO PRE-CONSTRUCTION CONDITION AT THE CONTRACTOR'S EXPENSE. 20. ALL EXISTING UTILITY APPURTENANCES (VALVE BOXES, FIRE HYDRANTS, MANHOLE RING AND COVER, JUNCTION BOX RING AND COVER, ETC) SHALL BE ADJUSTED TO FINAL GRADES. 21. ALL CONSTRUCTION ACTIVITIES SHALL BE ACCOMPLISHED IN ACCORDANCE WITH APPLICABLE REGULATIONS OF THE UNITED STATES OCCUPATIONAL AND HEALTH ADMINISTRATION (OSHA). 22. THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL STATE AND FEDERAL REGULATIONS REGARDING CONSTRUCTION ACTIVITIES NEAR ENERGIZED OVERHEAD ELECTRIC LINES. 23. THESE PLANS, PREPARED BY GEENSUR ENGINEERING, DO NOT EXTEND TO OR INCLUDE DESIGNS OR SYSTEMS PERTAINING TO THE SAFETY OF THE CONTRACTOR OR HIS EMPLOYEES, AGENTS OR REPRESENTATIVES IN THE PERFORMANCE OF THE WORK. THE SEAL HEREON DOES NOT EXTEND TO ANY SUCH SAFETY SYSTEMS THAT MAY NOW OR HEREAFTER BE INCORPORATED IN THE WORK. 24. THE CONTRACTOR SHALL BE RESPONSIBLE AND LIABLE FOR ALL JOB SITE SAFETY, FOR MANAGEMENT OF JOB SITE PERSONNEL, FOR SUPERVISION OF THE USE OF JOB SITE EQUIPMENT AND FOR DIRECTION OF ALL CONSTRUCTION PROCEDURES, METHODS, AND ELEMENTS REQUIRED TO COMPLETE THE CONSTRUCTION OF THE PROPOSED IMPROVEMENTS. 25. WHERE ELECTRICAL FACILITIES ARE INSTALLED, BTU HAS THE RIGHT TO INSTALL, OPERATE, RELOCATE, CONSTRUCT, RECONSTRUCT, ADD TO, MAINTAIN, INSPECT, PATROL, ENLARGE, REPAIR, REMOVE AND REPLACE SAID FACILITIES UPON, OVER, UNDER AND ACROSS THE PROPERTY INCLUDED IN THE PUE, AND THE RIGHT OF INGRESS AND EGRESS ON PROPERTY ADJACENT TO THE PUE TO ACCESS ELECTRICAL FACILITIES.

DEMOLITION NOTES:

- 1. AREAS BENEATH REMOVED PAVEMENT SHALL BE CLEARED OF ALL LOOSE OR DISTURBED MATERIAL AND WATER. THE AREA SHALL BE PROOF-ROLLED AND MANUALLY COMPACTED OR REPLACED WITH SIMILAR MATERIALS PRIOR TO NEW PAVEMENT PLACEMENT PER SPECIFICATIONS. 2. UNDER ALL IMPROVEMENTS, ALL ITEMS ARE TO BE REMOVED UNLESS OTHERWISE INDICATED. REMOVE NOT ONLY THE ABOVE GROUND ELEMENTS BUT ALL UNDERGROUND ELEMENTS FOR UTILITIES UNLESS OTHERWISE INDICATED. DURING CLEARING AND GRUBBING ACTIVITIES WHERE TREES AND BRUSH ARE TO BE REMOVED, REMOVE THE TOTAL EXTENT OF THEIR ROOT SYSTEMS, UNLESS OTHERWISE DIRECTED BY THE OWNER. ALL MATERIALS AND DEBRIS DEMOLISHED AND/OR REMOVED SHALL BECOME PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A MANNER SATISFACTORY TO THE OWNER, ARCHITECT, & ENGINEER. ON-SITE BURNING WILL NOT BE PERMITTED. 3. ALL EXCESS TOPSOIL AND CUT MATERIAL IS TO BE HAULED OFF AND DISPOSED OF OFF-SITE. 4. CONTRACTOR SHALL PREVENT TRANSPORT OF SEDIMENT TO ADJACENT PROPERTIES AND PUBLIC OR PRIVATE RIGHT OF WAYS AND IS RESPONSIBLE FOR CLEANUP IF SUCH OCCURS. CONTRACTOR IS TO ENSURE NO CONSTRUCTION DEBRIS OR MUD IS TRACKED OR DISCARDED ON TO ANY PUBLIC OR PRIVATE STREET OR LAND AND IS RESPONSIBLE FOR SITE CLEANUP AFTER EACH DAYS WORK. CONTRACTOR IS TO MAKE USE OF BEST MANAGEMENT PRACTICES TO PREVENT SEDIMENT FROM LEAVING THE SITE OR ENTERING EXISTING STORM SEWER OR DOWNSTREAM CHANNEL AREAS. CONTRACTOR SHALL MAINTAIN EROSION CONTROL THROUGHOUT CONSTRUCTION PERIOD AND UNTIL GRASS IS ESTABLISHED. 5. CONTRACTOR TO PROTECT ALL OR INDICATED EXISTING TREES TO REMAIN DURING DEMOLITION AND CONSTRUCTION ACTIVITIES. 6. CONTRACTOR IS TO PROTECT ALL EXISTING TREES INDICATED TO REMAIN DURING DEMOLITION AND CONSTRUCTION ACTIVITIES UNLESS OTHERWISE NOTED IN THE PLANS. ALL EXISTING TREES LOCATED BETWEEN THE FENCE LINES ARE ALLOWED TO BE REMOVED AS LONG AS REMOVAL DOES NOT DAMAGE THE FENCE LINE OR OTHER PROPERTY.

DIMENSION CONTROL NOTES:

- 1. THE CONTRACTOR MAY OBTAIN AN ELECTRONIC COPY OF PROJECT PLANS FOR CONSTRUCTION PURPOSES, WITH THE PERMISSION OF THE OWNER. THE ELECTRONIC FILE AND INFORMATION GENERATED BY THE USER AND THE ENGINEERING, FOR THIS PROJECT IS CONSIDERED BY GEENSUR ENGINEERING, TO BE CONFIDENTIAL. WHEN ISSUED, ITS USE IS INTENDED SOLELY FOR THE INDIVIDUAL OR ENTITY TO WHICH IT IS ADDRESSED. THE MATERIAL IS INTENDED FOR USE BY THE RECIPIENT NAMED, ONLY, AND PERMISSION IS NOT GRANTED TO THE RECIPIENT FOR DISTRIBUTION OF THIS DOCUMENT IN ANY FORM OR MEDIUM. THE RECIPIENT UNDERSTANDS THAT THIS DATA IS AUTHORIZED "AS IS" WITHOUT ANY WARRANTY AS TO ITS PERFORMANCE, ACCURACY, FREEDOM FROM ERROR, OR AS TO ANY RESULTS GENERATED THROUGHOUT ITS USE. THE RECIPIENT ALSO UNDERSTANDS AND AGREES THAT GEENSUR ENGINEERING, UPON RELEASE OF SUCH DATA, IS NOT LONGER RESPONSIBLE FOR THEIR USE OR MODIFICATION. THE USER AND RECIPIENT OF THE ELECTRONIC DATA ACCEPTS FULL RESPONSIBILITY AND LIABILITY FOR ANY CONSEQUENCES ARISING OUT OF THEIR USE. 2. ALL DIMENSIONS SHOWN ARE TO BE USED IN CONJUNCTION WITH THE PLANS FOR LOCATING ALL IMPROVEMENTS AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR FOR WORKABILITY PRIOR TO CONSTRUCTION OF THE IMPROVEMENTS. 3. UNLESS NOTED OTHERWISE, ALL DIMENSIONS ARE TO BACK OF CURB. REFER TO ARCHITECTURAL PLANS FOR DETAILED BUILDING DIMENSIONS.

GRADING NOTES:

- 1. ALL UNPAVED AREAS SHALL BE ADEQUATELY GRADED TO DRAIN AT A MINIMUM OF 2.0% SLOPE, UNLESS OTHERWISE NOTED, SO THAT NO PONDING OCCURS. 2. WHEN TOP OF CURB ELEVATIONS ARE SHOWN, THE CURB IS A STANDARD 6" CURB, UNLESS OTHERWISE NOTED. 3. ALL SPOTS ARE TOP OF CURB ELEVATIONS, UNLESS OTHERWISE NOTED. 4. CONTRACTOR SHALL FOLLOW THE GENERAL INTENT OF THE GRADING PLANS. MINOR ADJUSTMENTS TO THE ACTUAL ELEVATIONS SHOWN ON THE GRADING PLANS MAY BE REQUIRED TO MATCH EXISTING GROUND ELEVATIONS AND STRUCTURES. CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO ANY MODIFICATIONS. 5. ADEQUATE DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION AND ANY DRAINAGE DITCH OR STRUCTURE DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO EXISTING CONDITIONS OR BETTER. 6. THE APPROVAL OF THE PLANS IS NOT AN AUTHORIZATION TO GRADE ADJACENT PROPERTIES. WHEN FIELD CONDITIONS WARRANT OFF-SITE GRADING, PERMISSION MUST BE OBTAINED FROM AFFECTED PROPERTY OWNERS). ANY ADJACENT PROPERTY OR RIGHT-OF-WAY DISTURBED DURING CONSTRUCTION SHALL BE RETURNED TO EXISTING CONDITIONS OR BETTER. 7. ALL MATERIAL FOR NON-STRUCTURAL AREAS IS 6 FOOT OUTSIDE OF EDGE OF PAVEMENT, BACK OF CURB, OR IMPROVED AREAS) SHALL BE PLACED IN 8" MAXIMUM LOOSE LIFTS AND COMPACTED TO A UNIFORM DENSITY OF AT LEAST 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR (ASTM D698) WITH A MOISTURE CONTENT OF +1-2% OF OPTIMUM. 8. COMPACTION AND MOISTURE CONTROL SHALL BE VERIFIED BY IN-PLACE DENSITY TEST FOR EACH LIFT, 1 TEST PER 4,000 SF OF FILL PLACED, WITH A MINIMUM OF 1 TEST PER LIFT. 9. PRIOR TO REVEGETATION OPERATIONS, CONTRACTOR TO GRASS/REPLACE AND CONSOLIDATE TOPSOIL TO A DEPTH OF 6" MINIMUM. 10. ALL DISTURBED AREAS ARE TO HAVE ESTABLISHMENT OF SPOSS AS OUTLINED BELOW. CONTRACTOR IS RESPONSIBLE FOR WATERING (INCLUDING TEMPORARY IRRIGATION IN AREAS NOT RECEIVING PERMANENT IRRIGATION), MAINTENANCE, AND ESTABLISHMENT OF VEGETATION FOR A PERIOD OF 90 DAYS. CONTRACTOR TO GUARANTEE ALL PLANTED MATERIAL GROWTH AND COVERAGE FOR A PERIOD OF 6 MONTHS. GROWTH AND COVERAGE SHALL BE DEFINED AS 95% OF THE PLANTED AREA WITH UNIFORM COVERAGE OF GRASS GREATER THAN 1" IN HEIGHT WITH NO BARE SPOTS GREATER THAN 2 SQUARE FEET. SECOND APPLICATION OF SEED OR HYDROMULCH OR SOD IS REQUIRED FOR BARE SPOTS NOT MEETING COVERAGE REQUIREMENT WITHIN 30 DAYS OF INITIAL APPLICATION.

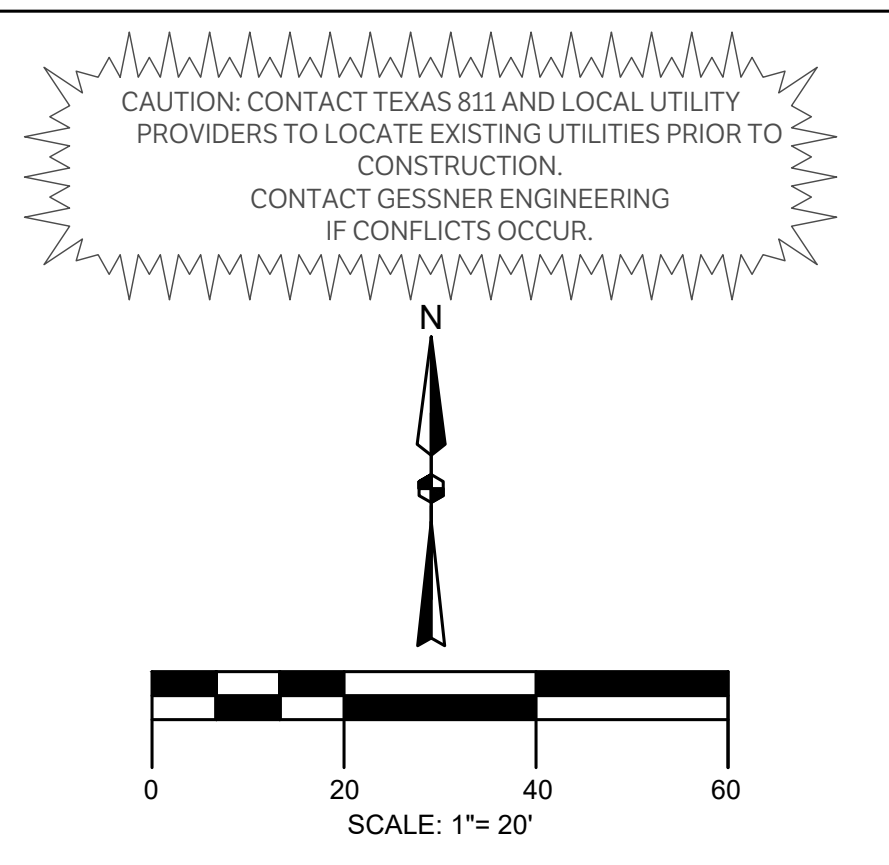
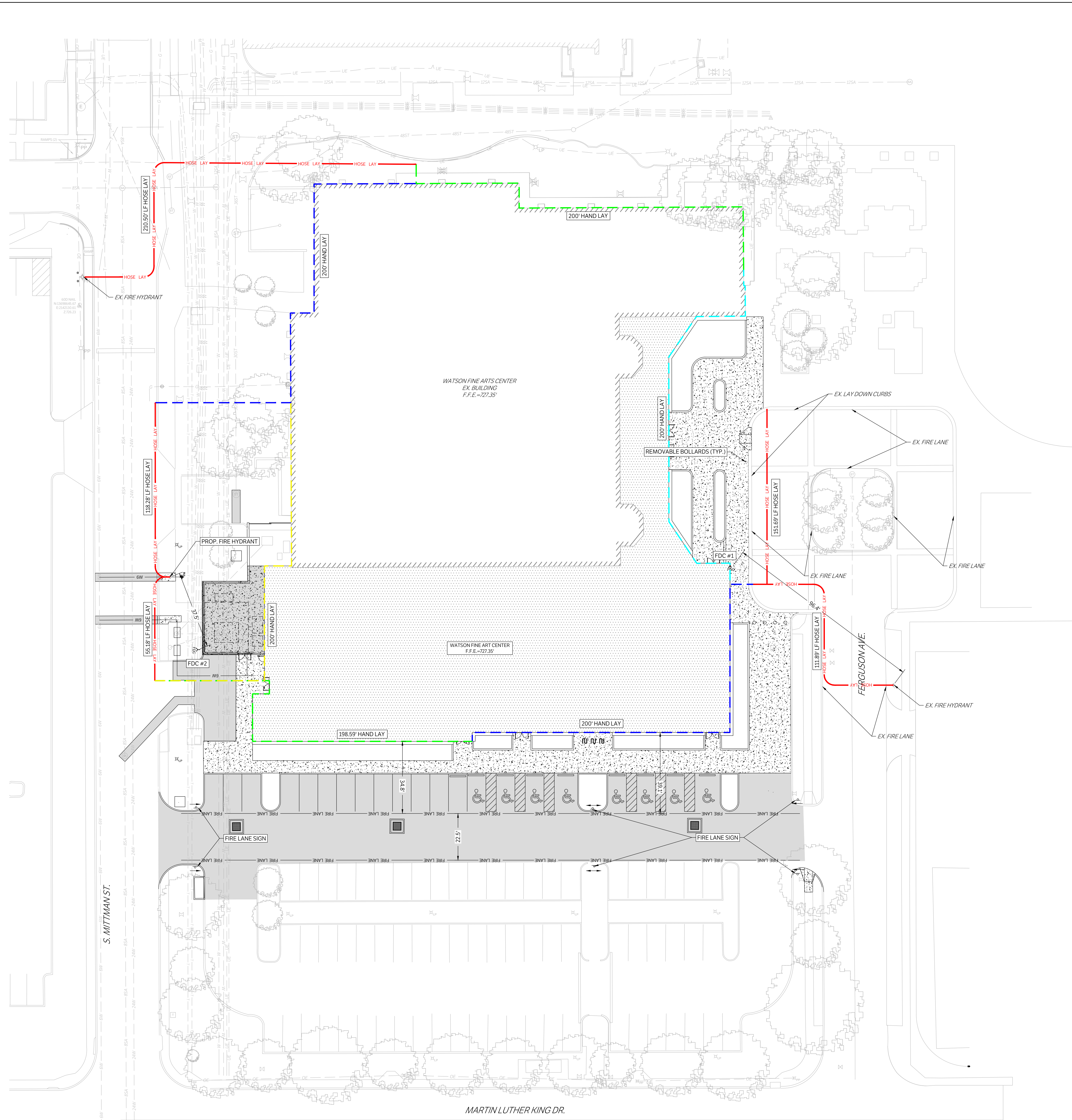
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ISSUE FOR CONSTRUCTION



# ISSUE FOR CONSTRUCTION

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2400  
FOR BLUEBAM LABELING CORR.



**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]	PAE PROPOSED PUBLIC ACCESS EASEMENT
[Symbol]	PUE PROPOSED UTILITY EASEMENT

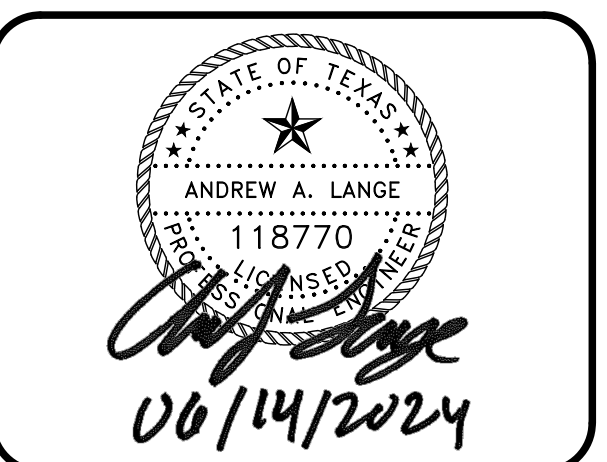
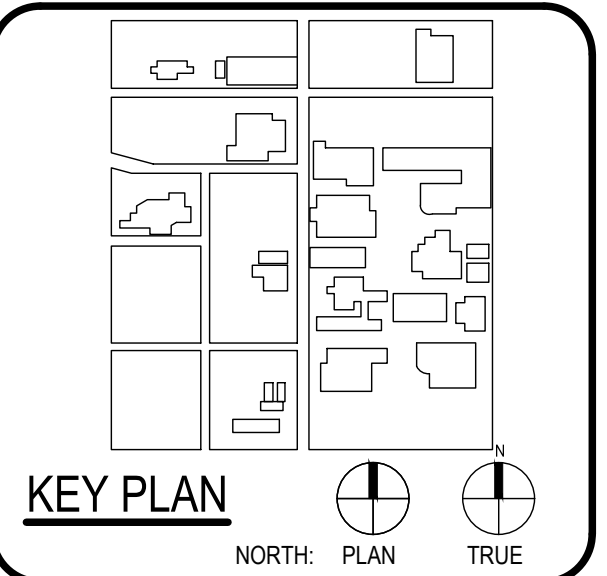
**FIRE PROTECTION INFO**

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  
210-829-0123 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

ISSUE FOR CONSTRUCTION  
BUILDING NUMBER  
**SITE FIRE PLAN**

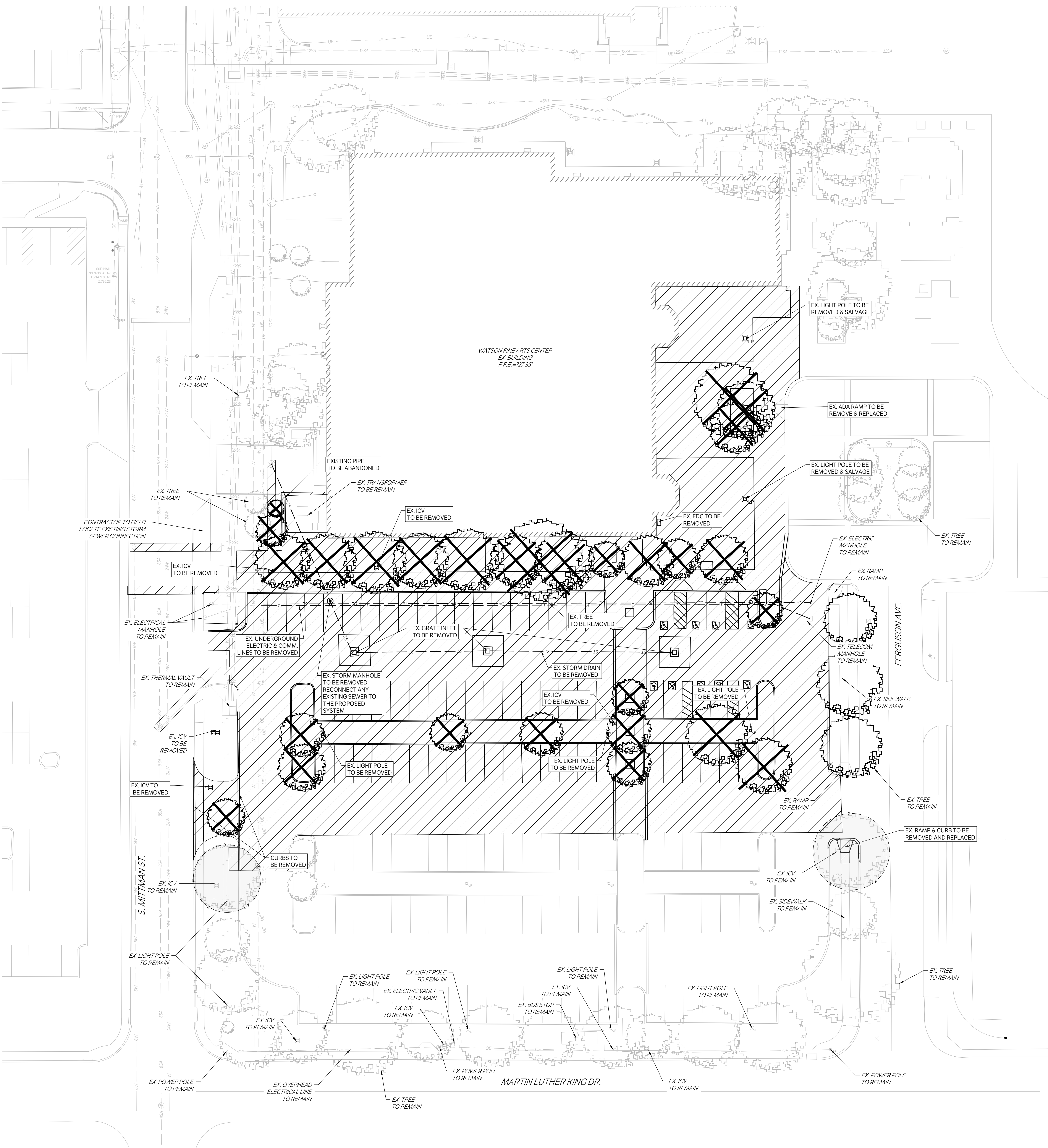
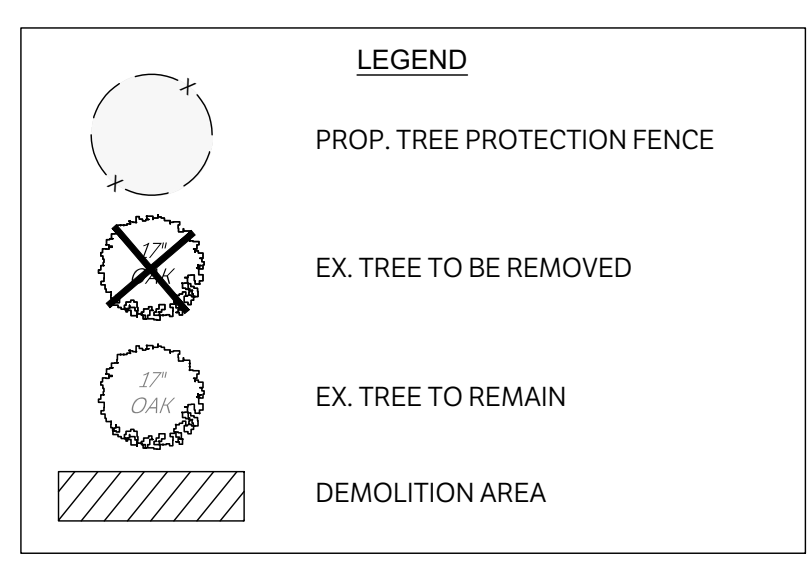
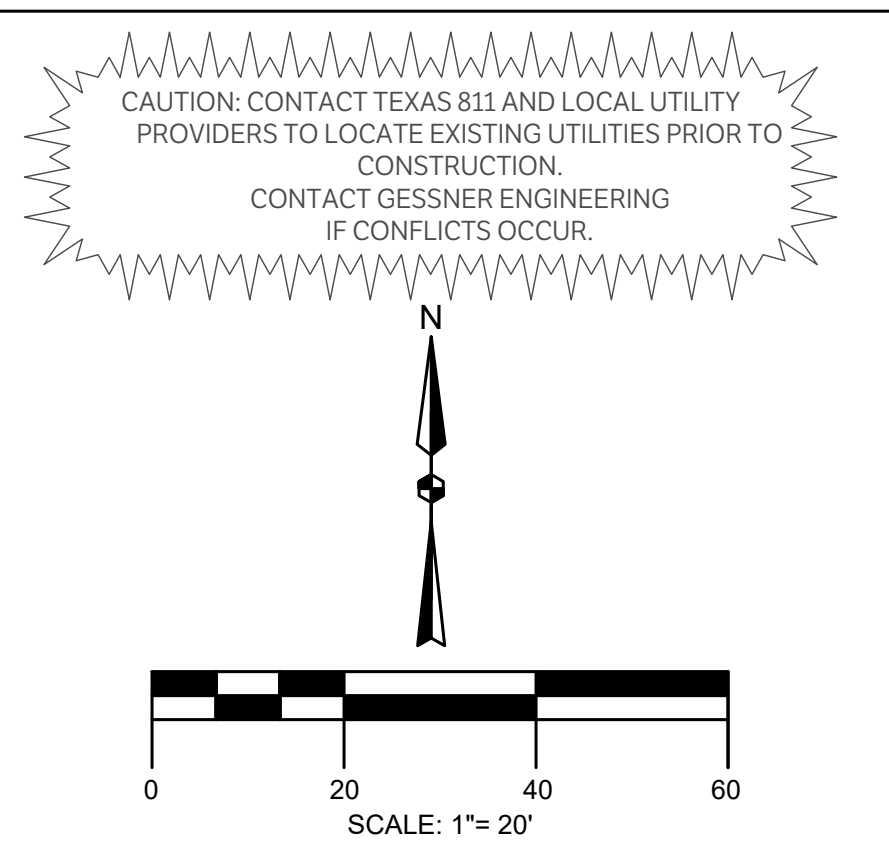
C201

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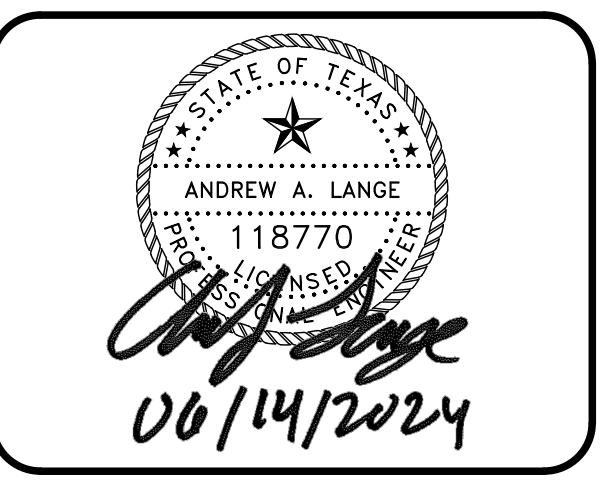
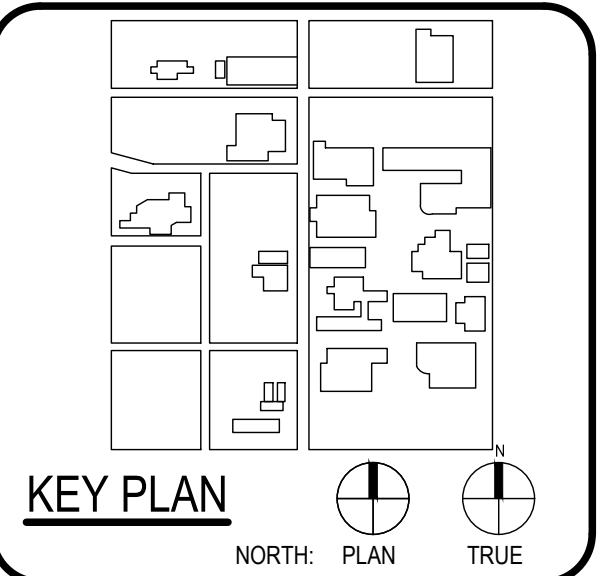
Sheet Grids Template  
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SAN ANTONIO 601 N.W. Loop 410, Suite 400 San Antonio, TX 78216 210-829-0123 P 210-829-0578 F TX Firm BR 1608	
ARCHITECT	BA & ARCHITECTS
2101 BRIDGE CELEBRITY LANDSCAPE ROSE AND GOSWIP 1111 W. 10TH ST SAN ANTONIO, TX 78207 LUNDY & HARRIS ENGINEERING 1111 W. 10TH ST SAN ANTONIO, TX 78207 T. 210-829-0123 PROLOGUE MEAN PROFESSIONALS 1111 W. 10TH ST SAN ANTONIO, TX 78207 T. 210-829-0123	

WFAC Black Box Addition PKG 1

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San Antonio, TX 78203  
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CLIENT	Alamo Colleges	
DATE	2024/06/12	
PROJECT NUMBER	230462	
DRAWING HISTORY		
No.	Description	Date

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BUILDING NUMBER  
**EXISTING  
CONDITIONS & DEMO  
PLAN**

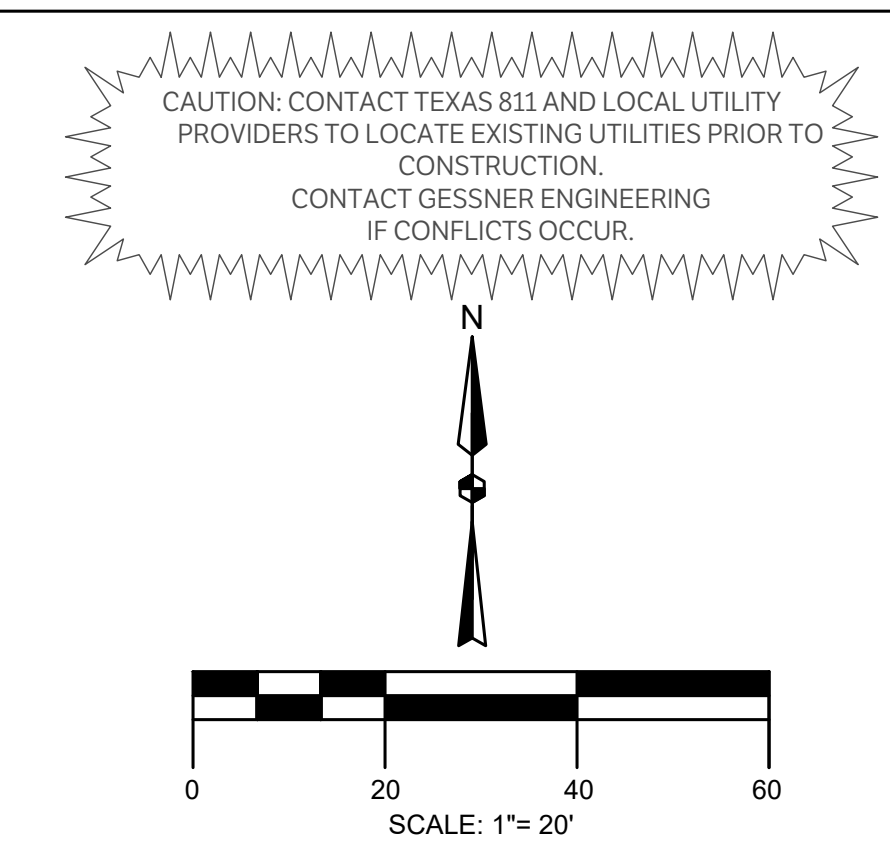
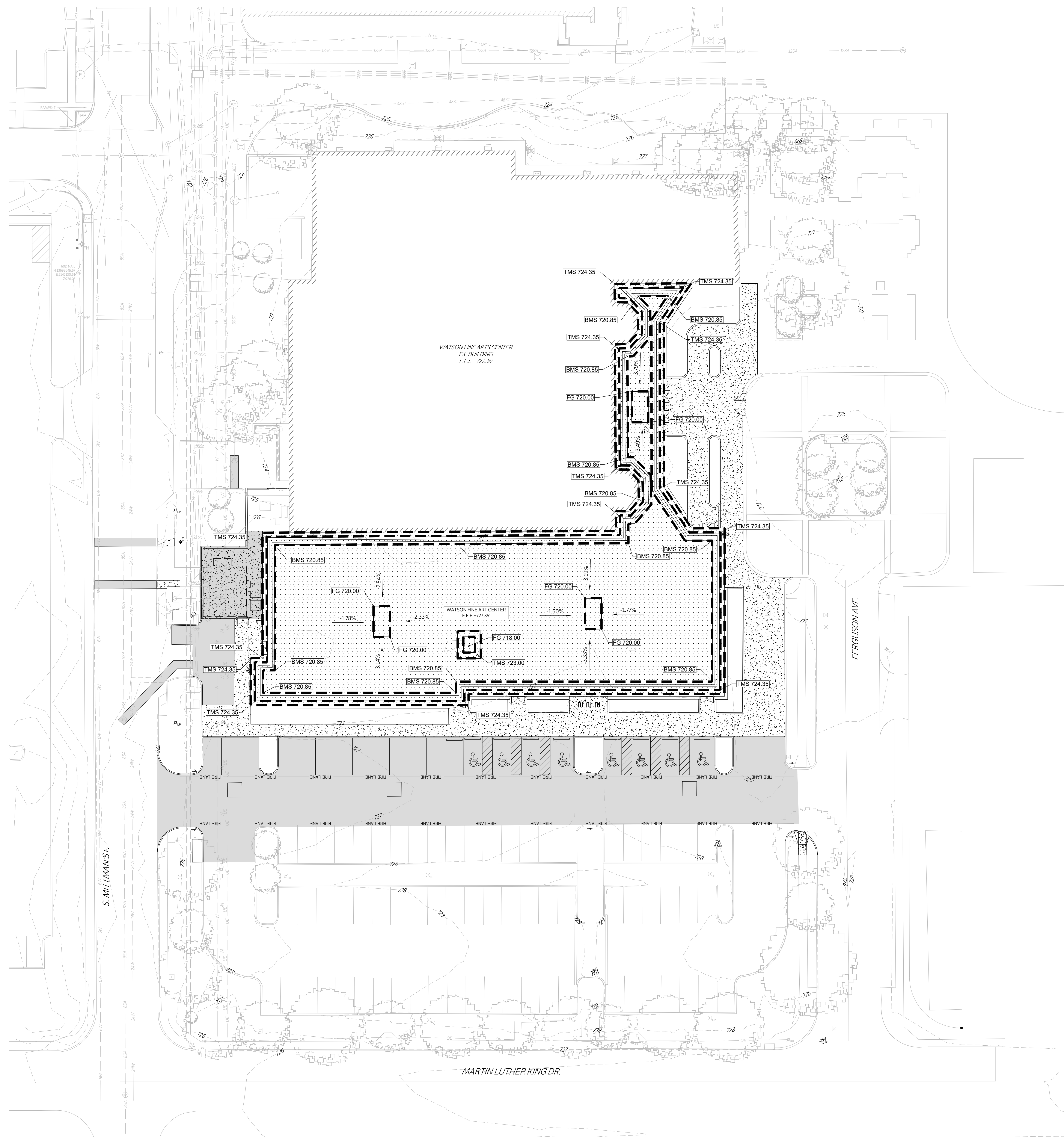
C300

CHECKED BY:  
SH & AL  
DRAWN BY:  
JC





# ISSUE FOR CONSTRUCTION



**LEGEND**

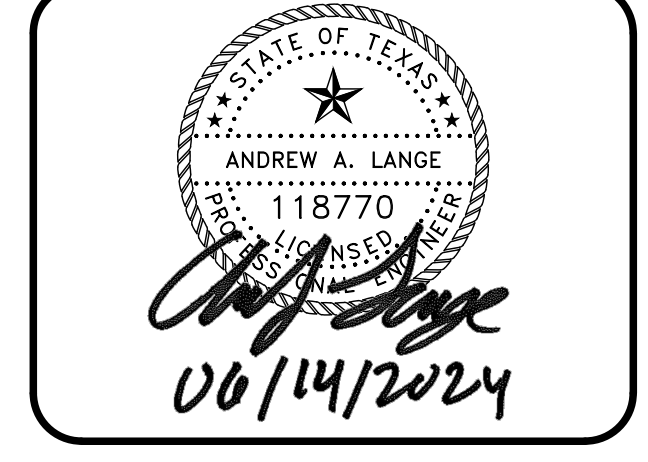
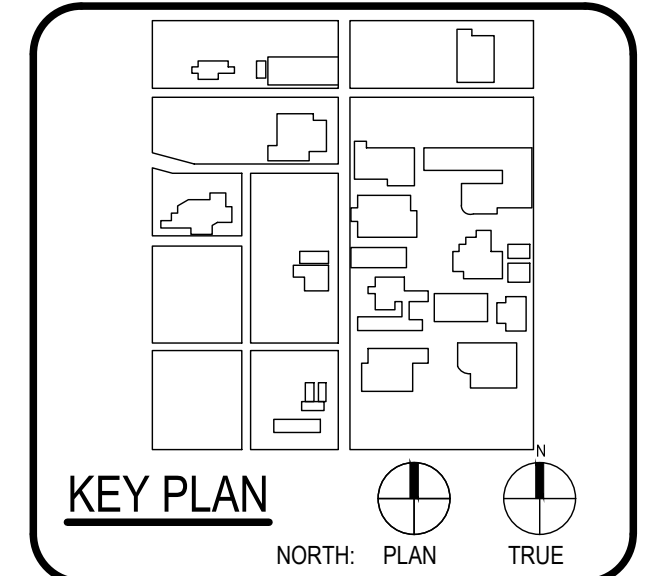
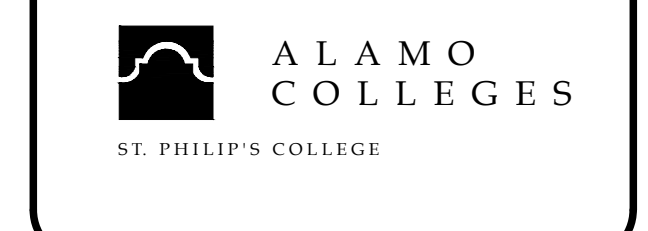
	340	EXISTING CONTOURS
	340	PROPOSED CONTOURS
		PROPERTY LINE
		PROPOSED SWALE WITH DIRECTION OF FLOW ARROWS
		GRADE BREAK
BR		PROPOSED FINISHED GRADE AT BOTTOM OF RAMP
BS		PROPOSED FINISHED GRADE AT BOTTOM OF STAIR
BW		PROPOSED FINISHED GRADE AT BASE OF WALL
FG		PROPOSED FINISHED GRADE ELEVATION
FL		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



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ARCHITECT	BA & ARCHITECTS
2101 BRUNNEN CELEBRITY LANDSCAPE DESIGN GROUP 113140-002 LINDY & HARRIS ENGINEERING 113140-002 T. J. JONES PROVIDOR MEAN PROFESSIONALS 113140-002 MEAN 113140-002	

**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**

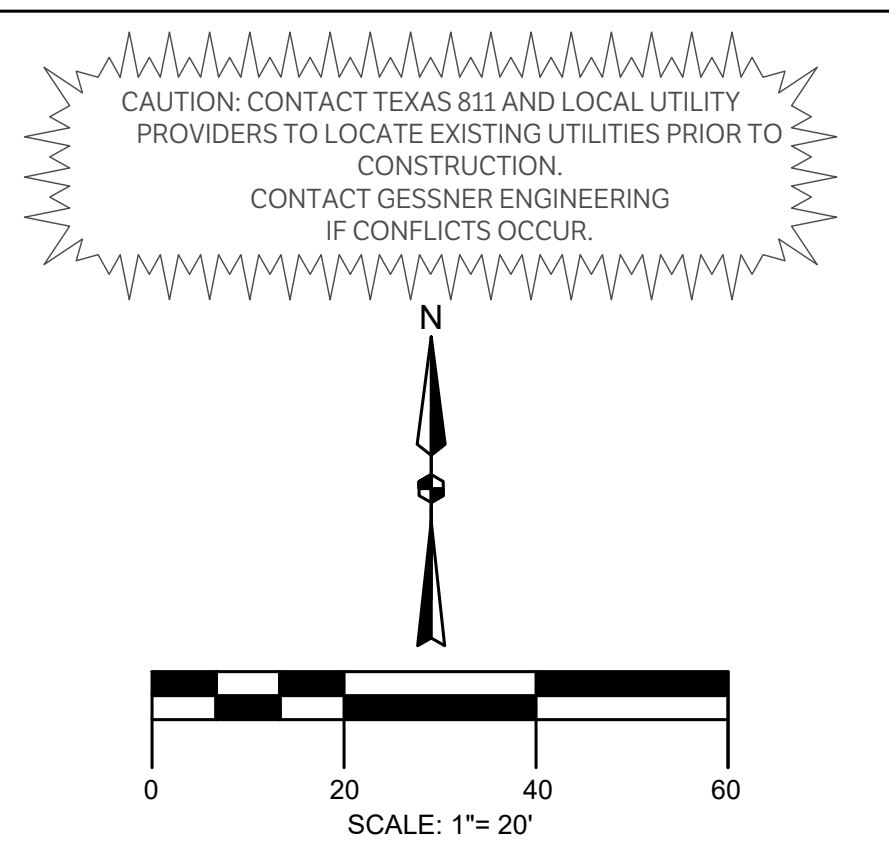
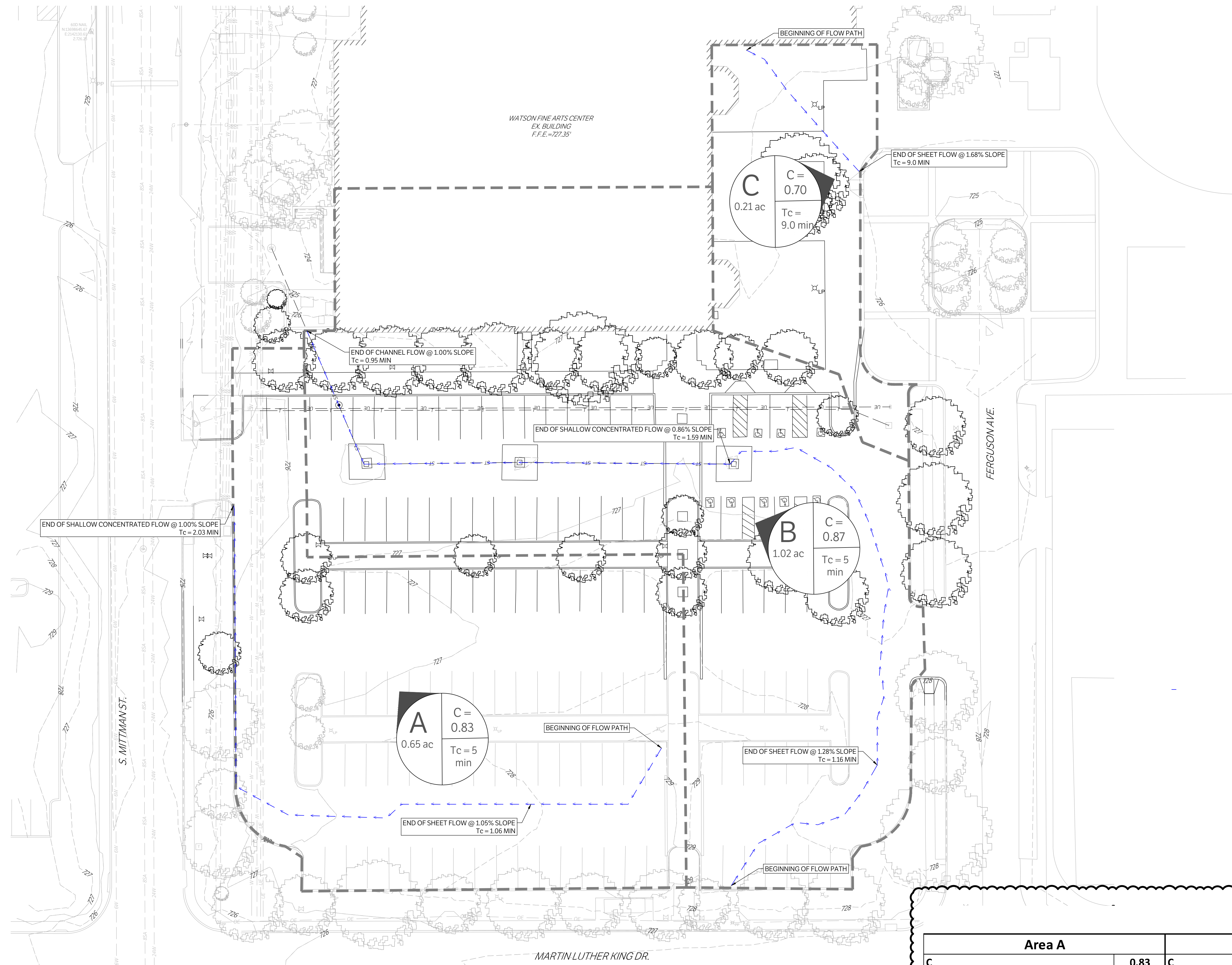
BUILDING NUMBER

**CRAWLSPACE**

**C401**

# ISSUE FOR PERMIT

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Z400  
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**LEGEND**

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

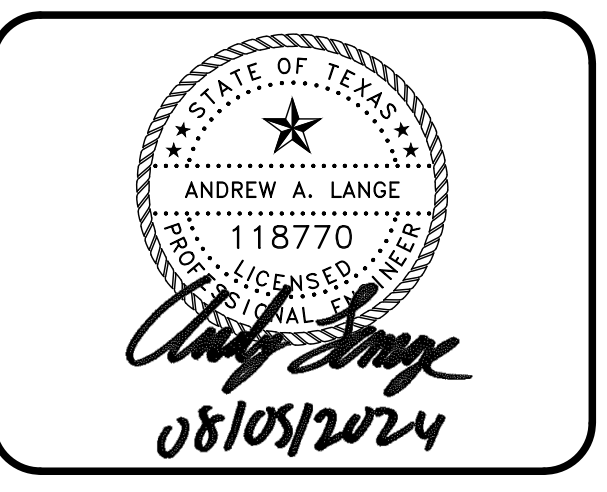
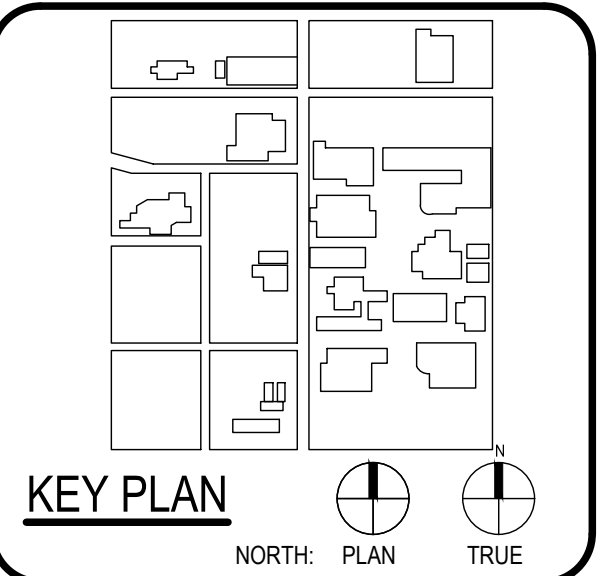
CAUTION: CONTACT TEXAS 811 AND LOCAL UTILITY PROVIDERS TO LOCATE EXISTING UTILITIES PRIOR TO CONSTRUCTION.  
CONTACT GESSNER ENGINEERING IF CONFLICTS OCCUR.



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

DRAWING HISTORY

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
<b>TOTAL</b>			<b>28476.40</b>	<b>0.65</b>	<b>0.55</b>
				<b>C</b>	<b>0.83</b>

**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
<b>TOTAL</b>			<b>44490.68</b>	<b>1.02</b>	<b>0.89</b>
				<b>C</b>	<b>0.87</b>

**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
<b>TOTAL</b>			<b>9158.39</b>	<b>0.21</b>	<b>0.15</b>
				<b>C</b>	<b>0.70</b>

**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

**Atlas 14 Rainfall Intensity (in/hr)**

Time (minutes)	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

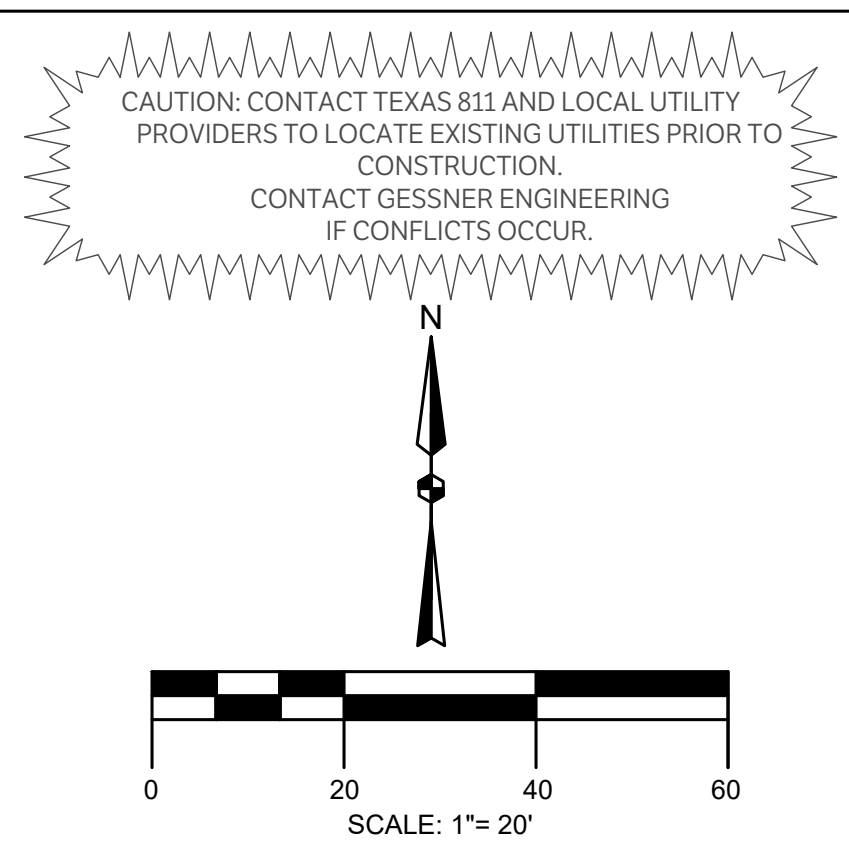
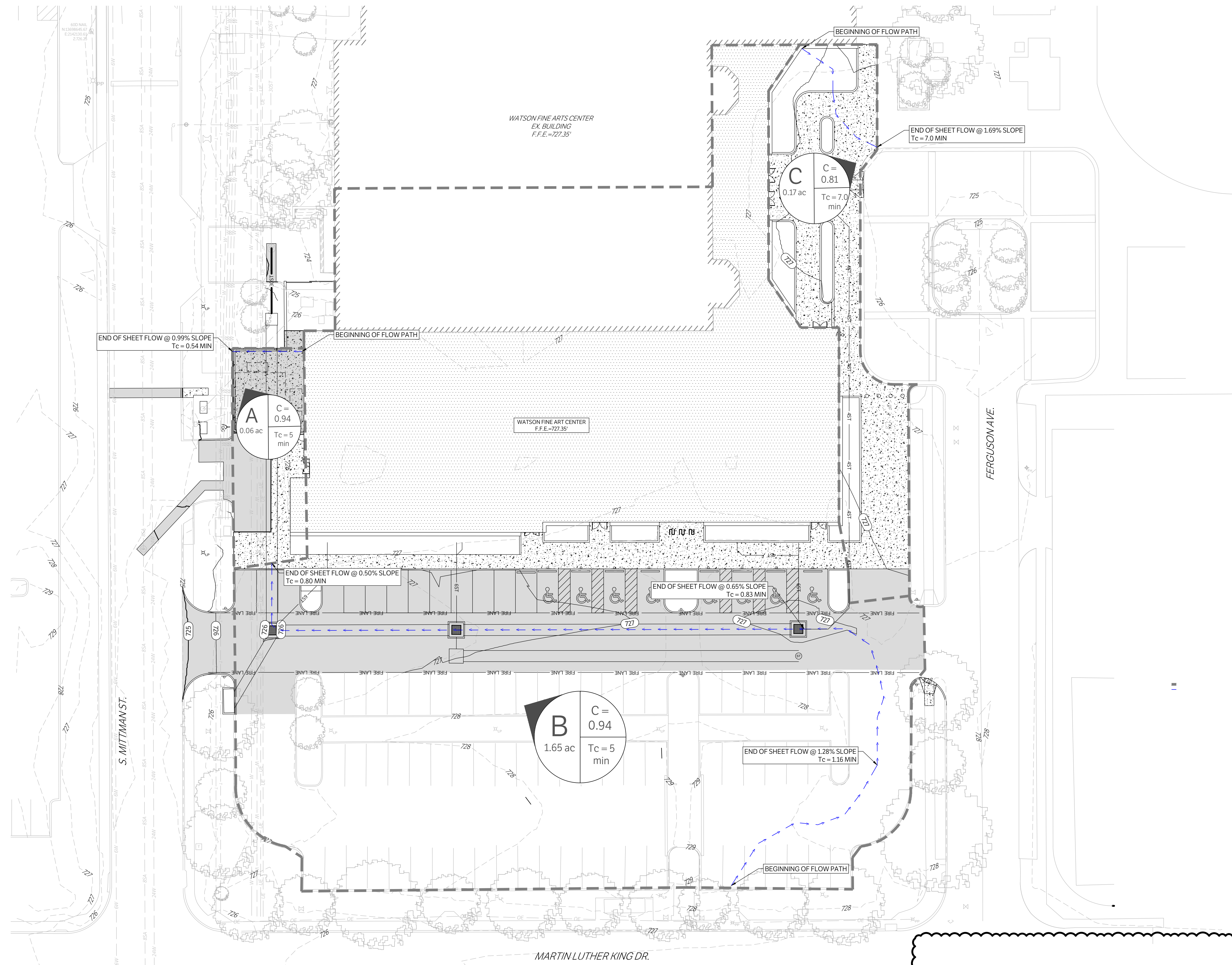
**Pre**

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	<b>Time of Concentration (min)</b>	<b>9.00</b>
<b>Time of Concentration (min)</b>	<b>3.09</b>	<b>SCS Channel Flow (ft)</b>	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		
		<b>SCS Channel Flow (ft)</b>	60.88		
		Slope (%)	1.79		
		Manning's Roughness	0.011		
		Velocity (ft/s)	6.50		
		Flow Time (min)	0.10		
		<b>Time of Concentration (min)</b>	<b>3.70</b>		
		*COSA requires min TOC of 5 min*			

CHECKED BY: SH & AL  
DRAWN BY: JC

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**LEGEND**

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

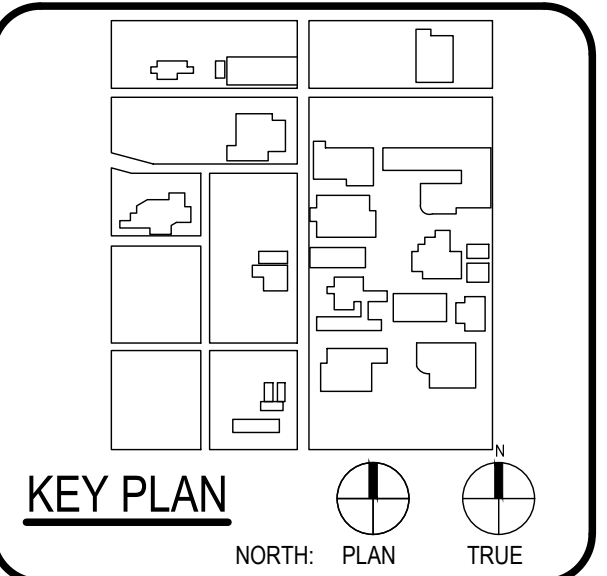
Required Storage	
Storm Event	Required Storage (ft <sup>3</sup> )
1 - Year	2037.00
5 - Year	2784.00
25 - Year	3698.00
100 - Year	4549.00



**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

**WFAC Black Box Addition PKG 1**

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



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

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

**ISSUE FOR PERMIT**

**POST DRAINAGE AREA MAP**

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
<b>TOTAL</b>			<b>2755.54</b>	<b>0.06</b>	<b>0.06</b>
			<b>C</b>		<b>0.94</b>

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
<b>TOTAL</b>			<b>71900.67</b>	<b>1.65</b>	<b>1.50</b>
			<b>C</b>		<b>0.91</b>

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
<b>TOTAL</b>			<b>7469.26</b>	<b>0.17</b>	<b>0.14</b>
			<b>C</b>		<b>0.81</b>

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

**C501**

# ISSUE FOR PERMIT

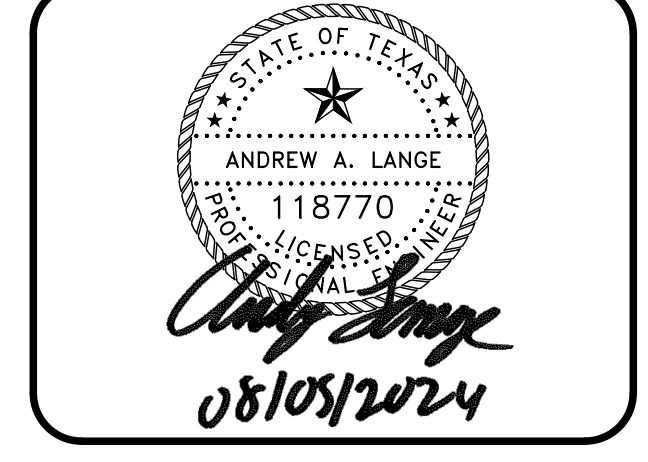
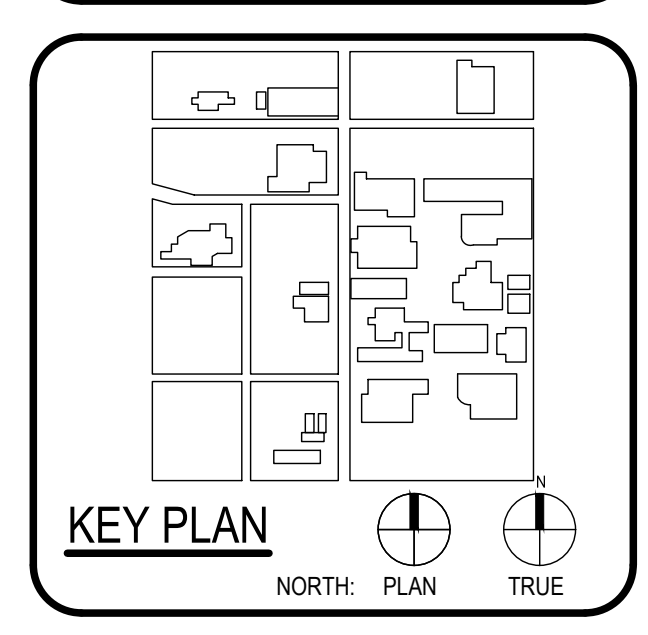
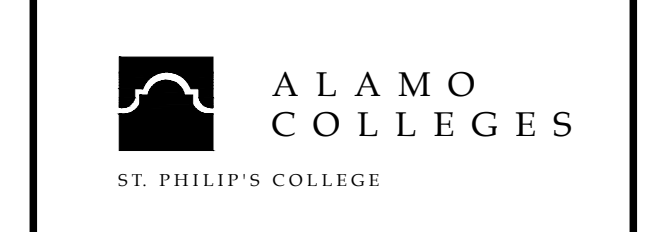
CAUTION: CONTACT TEXAS 811 AND LOCAL UTILITY PROVIDERS TO LOCATE EXISTING UTILITIES PRIOR TO CONSTRUCTION.  
CONTACT GESSNER ENGINEERING IF CONFLICTS OCCUR.



ARCHITECT	PBK Architects, Inc.
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
1701 S. W. Loop San Antonio, TX 78201 210-441-0000 TX Firm BR 1608	
ARCHITECT	LUNDY & HARRIS ENGINEERING
1111 S. W. Loop San Antonio, TX 78201 210-441-0000 TX Firm BR 1608	
ARCHITECT	NEWMAN ENGINEERING
1111 S. W. Loop San Antonio, TX 78201 210-441-0000 TX Firm BR 1608	

**WFAC Black Box Addition PKG 1**

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



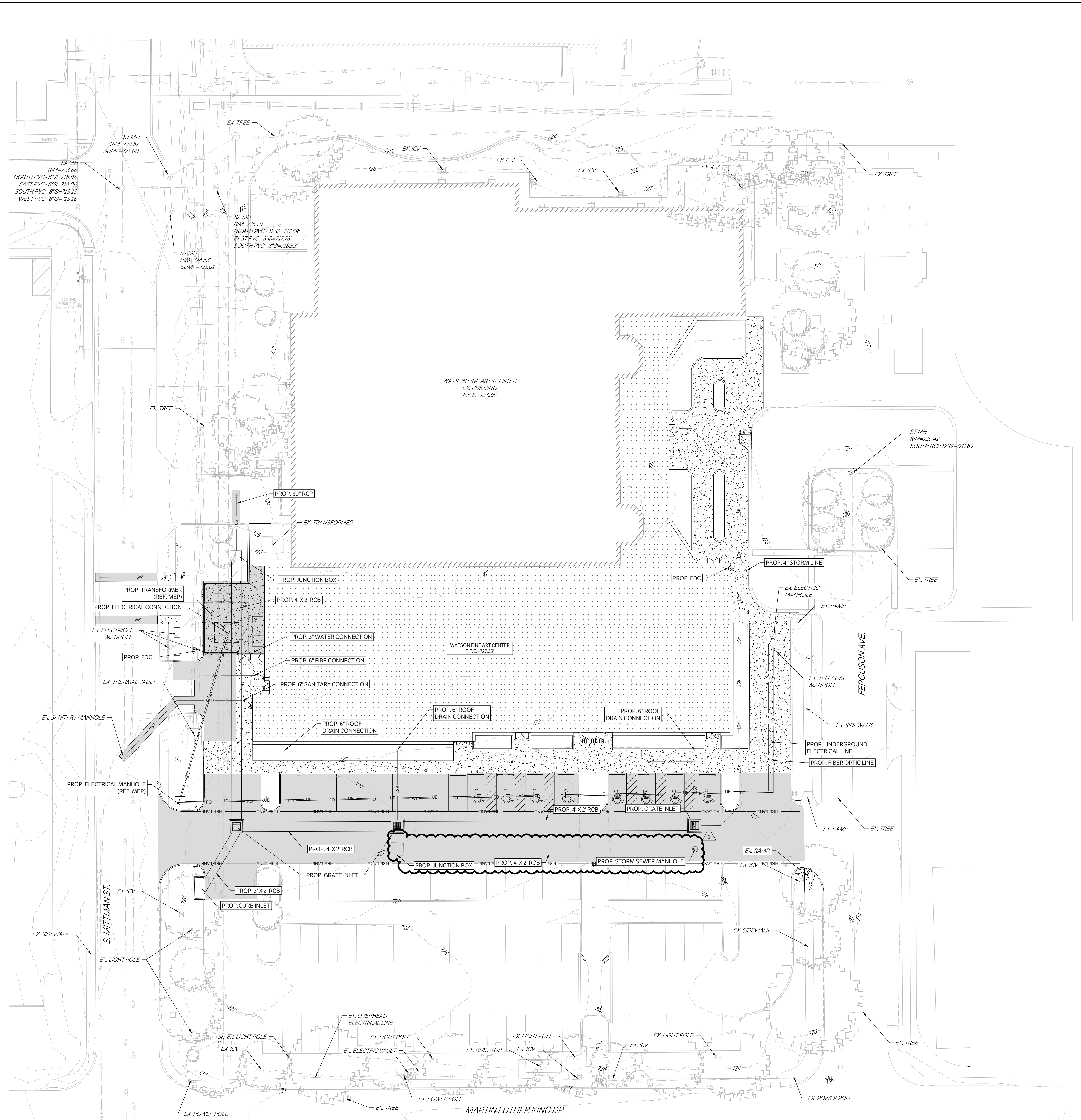
CLIENT	Alamo Colleges	
DATE	2024/06/12	
PROJECT NUMBER	230462	
DRAWING HISTORY		
No.	Description	Date
1	ADDENDUM 1	08/05/2024

ISSUE FOR PERMIT

BUILDING NUMBER

**OVERALL UTILITY**

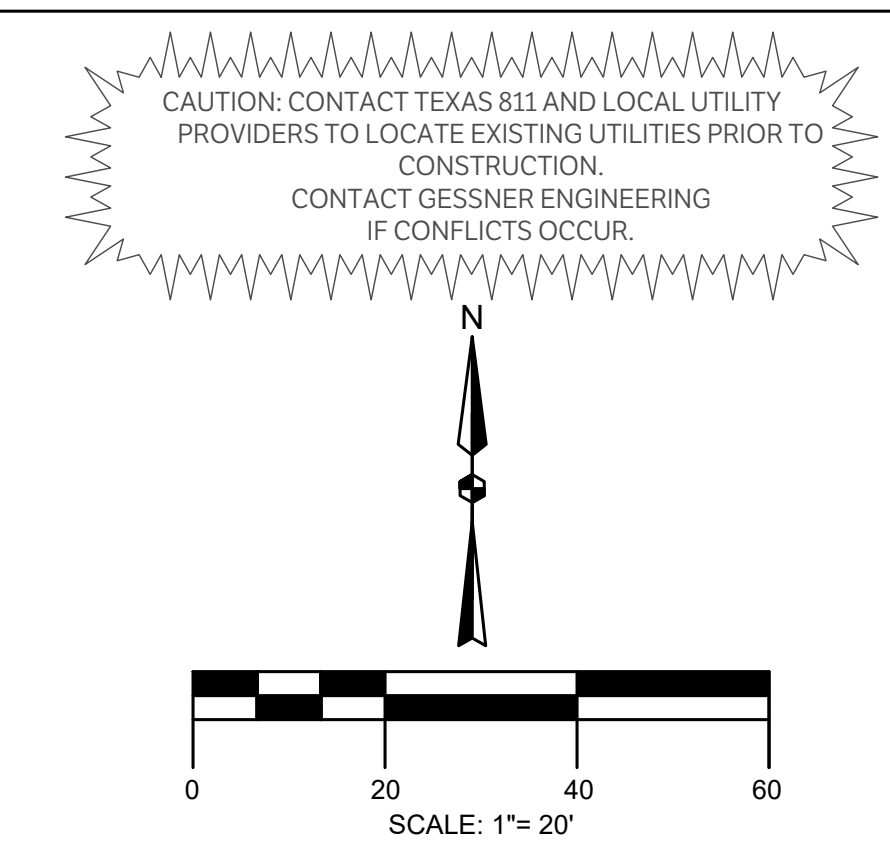
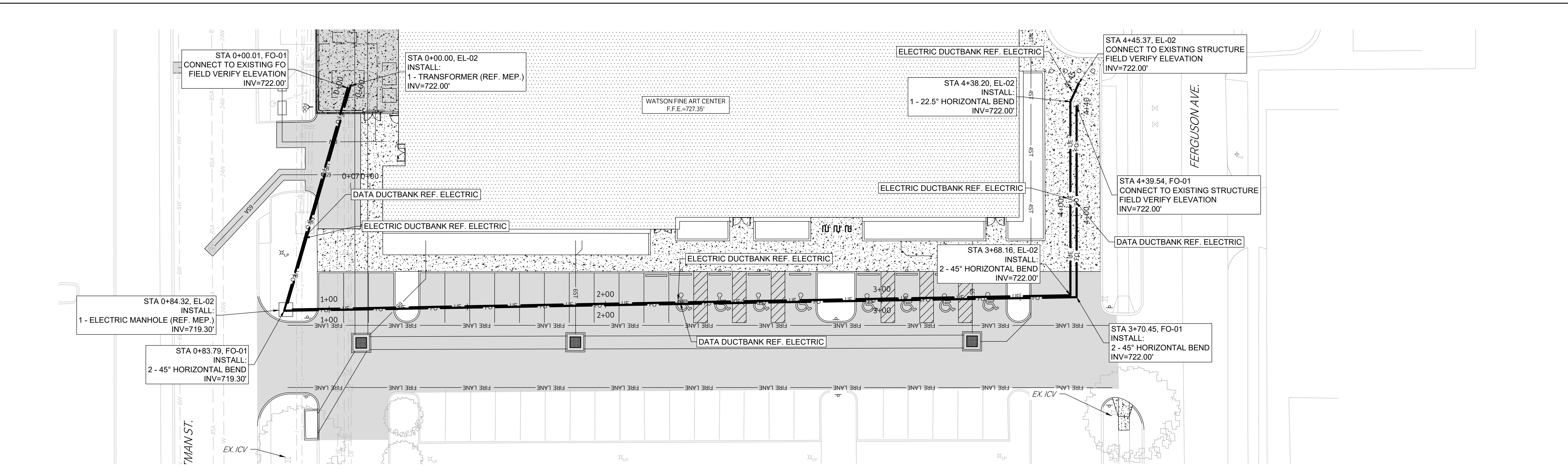
**C600**



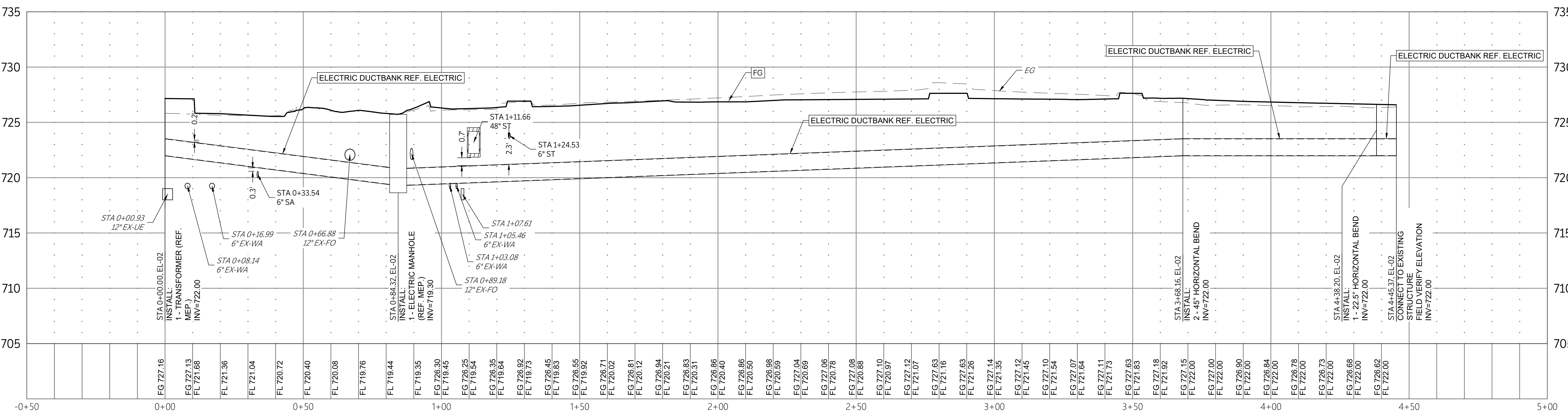
**LEGEND**

[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
[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

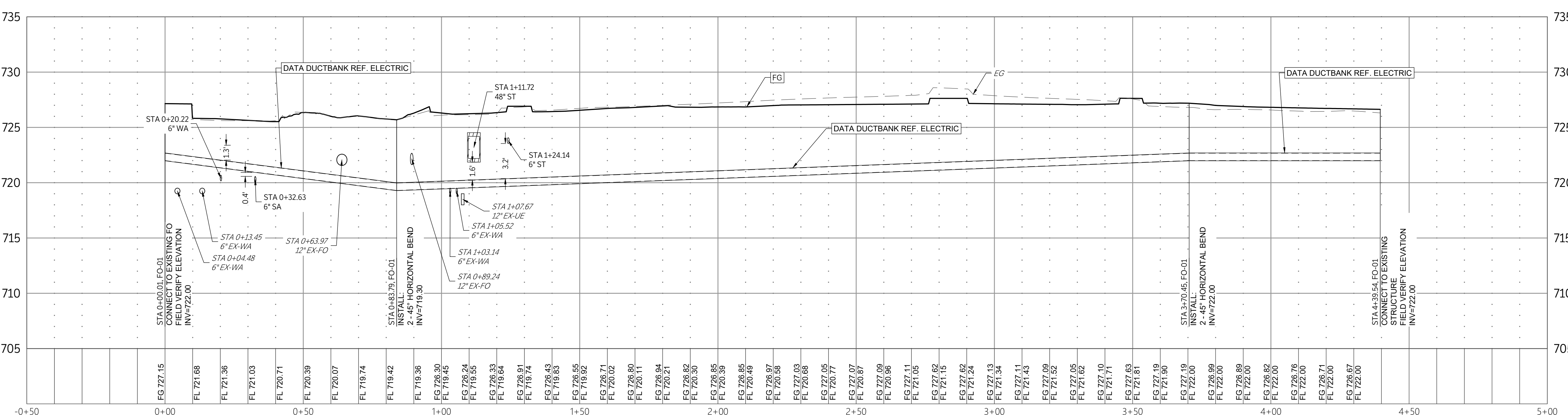
# ISSUE FOR CONSTRUCTION



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

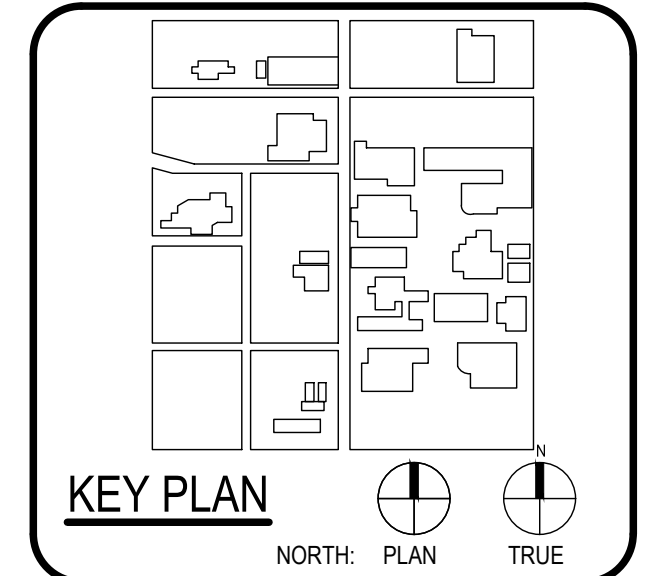
**LEGEND**

- 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. I PROP. STORM LINE
- EX. I PROP. WATER LINE
- EX. I PROP. SANITARY SEWER LINE
- EXISTING THERMALS
- PROPOSED THERMALS
- EX. I PROP. GAS LINE
- EX. I PROP. DATA/TELECOM
- EX. I PROP. UNDERGROUND ELECTRIC
- EX. I PROP. FIBER OPTIC
- EX. I PROP. OVERHEAD ELECTRIC
- EX. I PROP. FIRE HYDRANT
- EX. I PROP. WATER METER
- EX. I PROP. GATE VALVE
- EX. IRRIGATION CONTROL VALVE
- PROP. FIRE DEPARTMENT CONNECTION
- PROP. POST INDICATOR VALVE
- PROP. HOSE LAY
- EX. I PROP. SANITARY SEWER MANHOLE
- EX. I PROP. SANITARY SEWER CLEANOUT
- EX. STORM SEWER MANHOLE
- PROP. STORM SEWER CURB INLET
- EX. I PROP. LIGHT POLE
- PROPOSED PUBLIC ACCESS EASEMENT
- PROPOSED UTILITY EASEMENT



ARCHITECT SAN ANTONIO 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

WFAC Black Box Addition PKG 1



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

DRAWING HISTORY		
No.	Description	Date

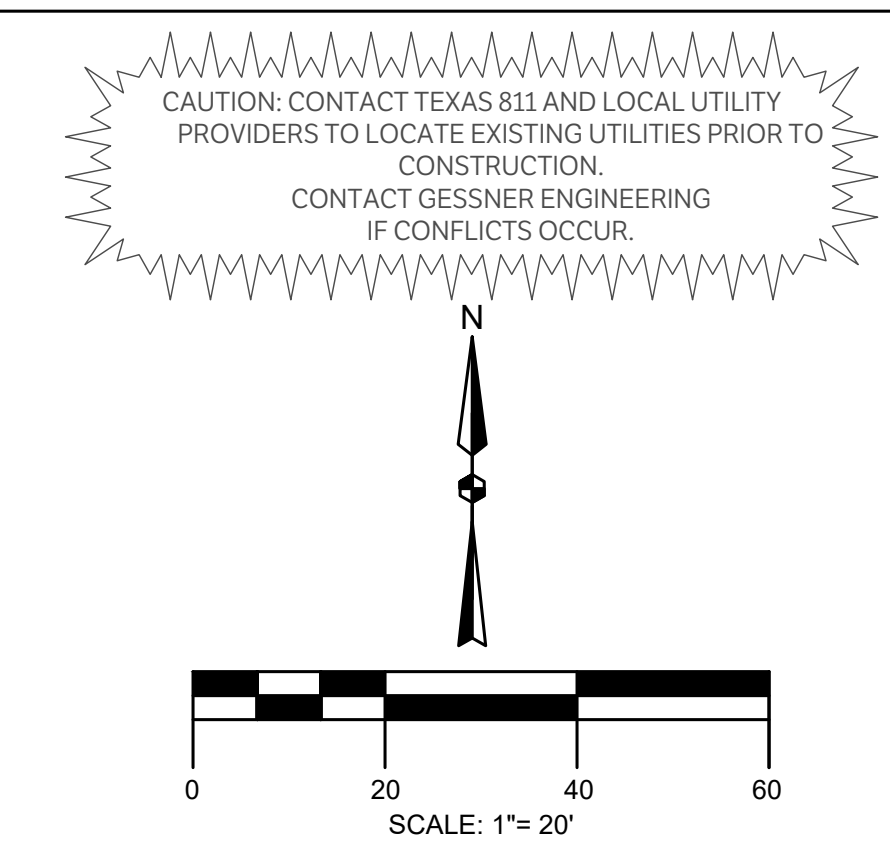
ISSUE FOR CONSTRUCTION  
BUILDING NUMBER

ELEC. & COMMS  
PLAN & PROFILES

C700

Sheet Grids Template  
Z:400  
FOR BLUEBAM LABELING CORR.

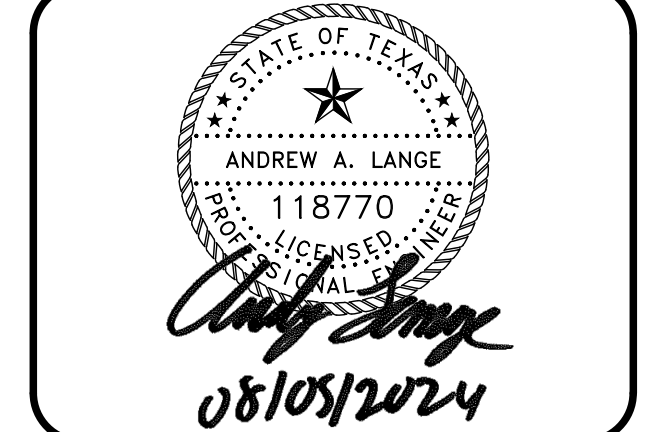
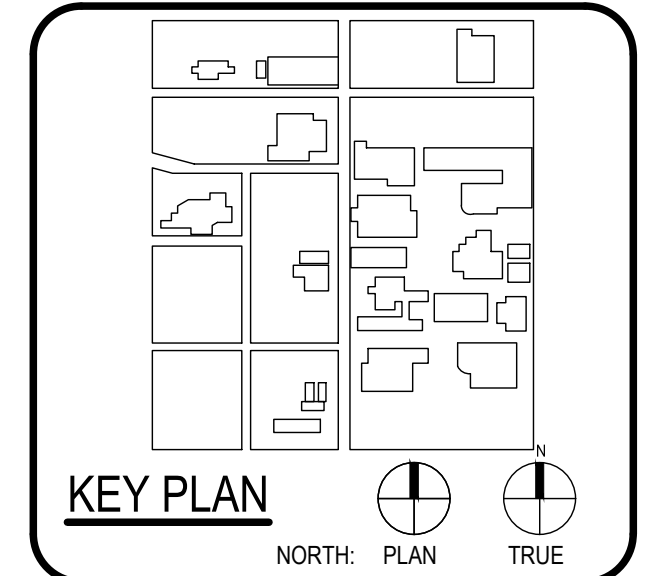
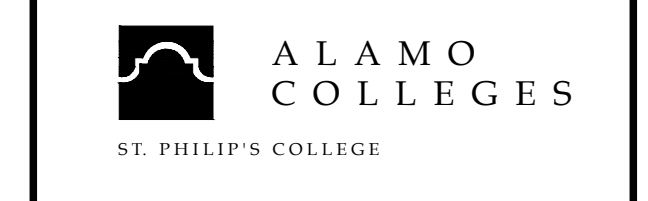
# ISSUE FOR PERMIT



ARCHITECT: SAN ANTONIO 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  
1701 S. W. Loop  
SAN ANTONIO, TX 78201  
LANDSCAPE: LUNY & HARRIS ENGINEERING  
1713 W. Loop  
SAN ANTONIO, TX 78201  
ELECTRICAL: T. J. WOODS  
MECHANICAL: T. J. WOODS  
PLUMBING: T. J. WOODS  
T. J. WOODS  
1713 W. Loop  
SAN ANTONIO, TX 78201  
T. J. WOODS

## WFAC Black Box Addition PKG 1



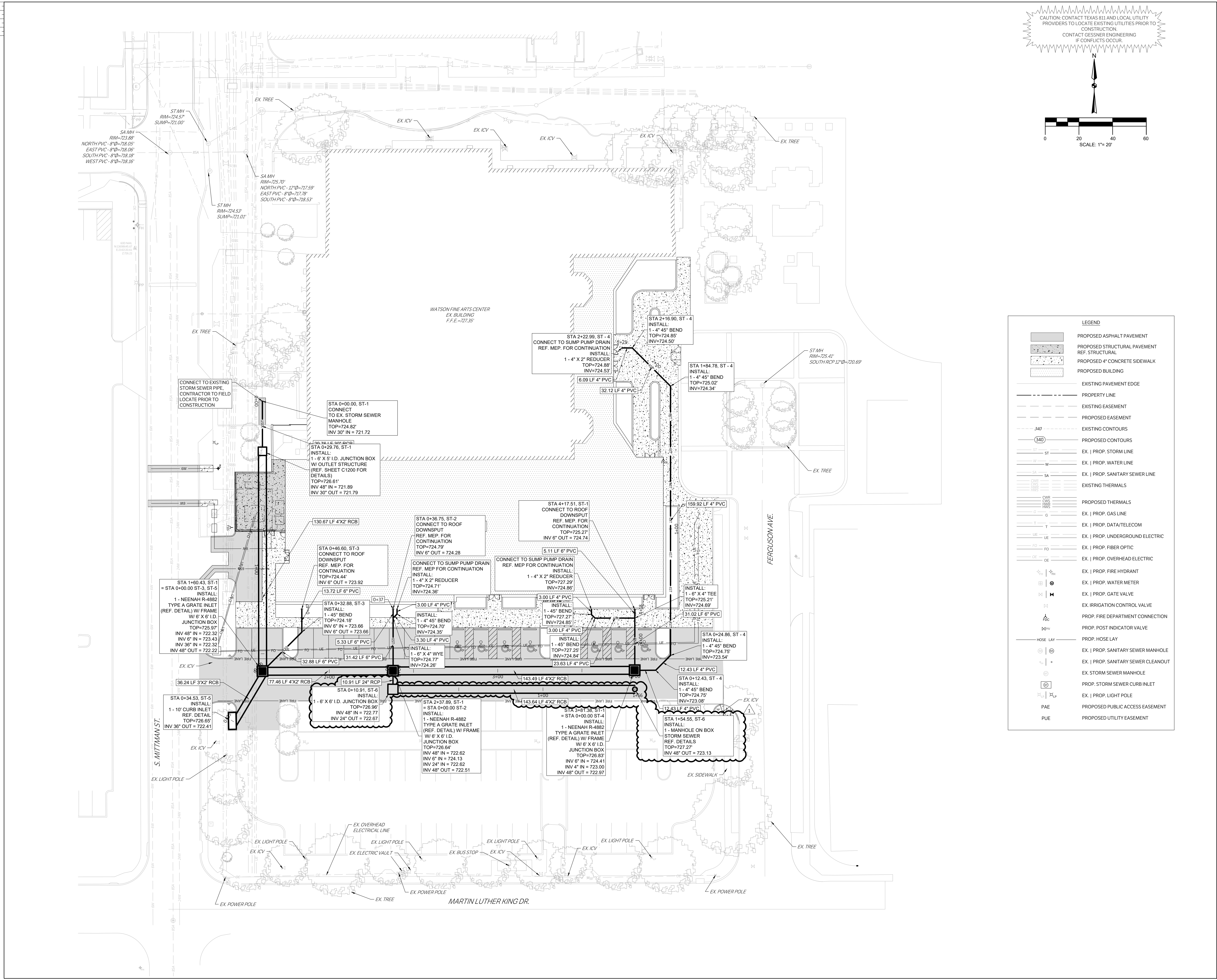
CLIENT: Alamo Colleges	PROJECT NUMBER: 230462
DATE: 2024/06/12	

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

ISSUE FOR PERMIT  
BUILDING NUMBER

## STORM PLAN

C800



LEGEND

[Symbol]	PROPOSED ASPHALT PAVEMENT
[Symbol]	PROPOSED STRUCTURAL PAVEMENT
[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

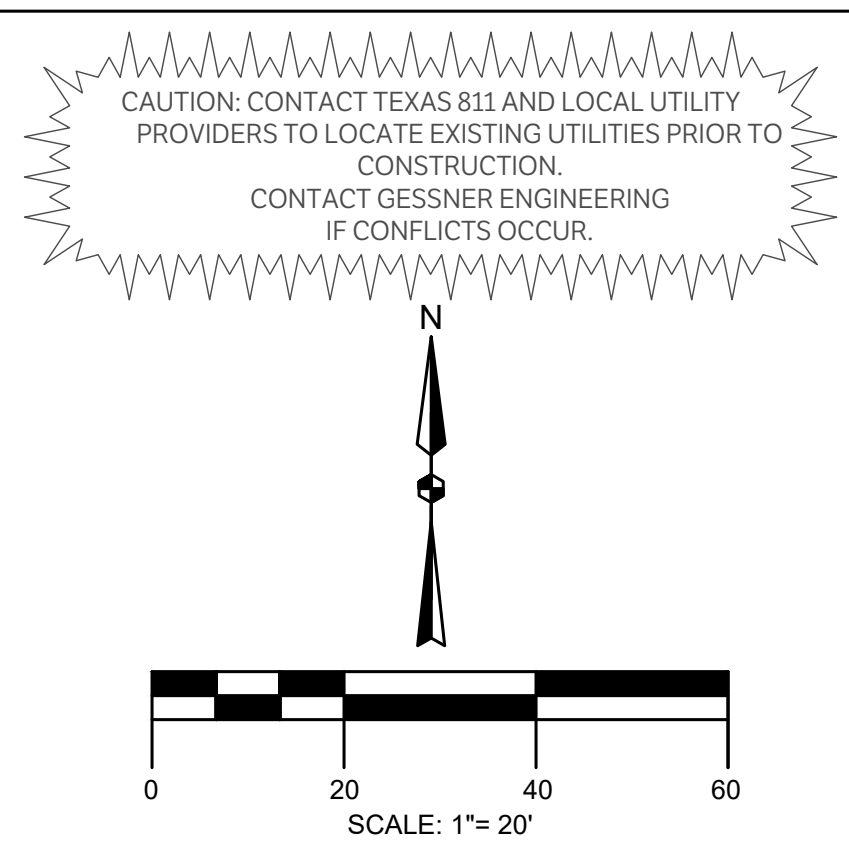
CHECKED BY: SH & AL  
DRAWN BY: JC





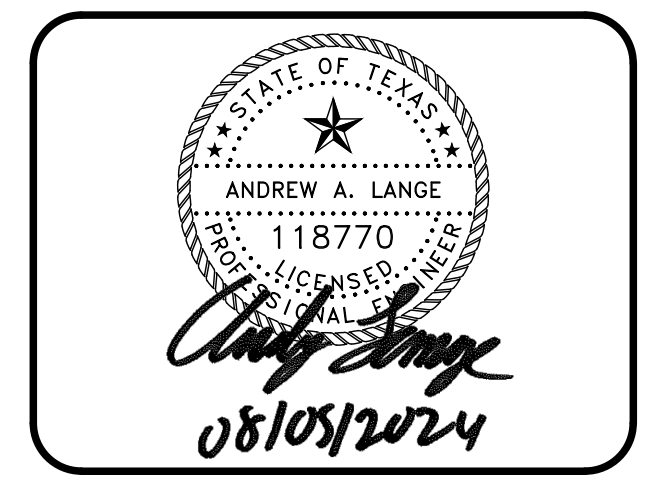
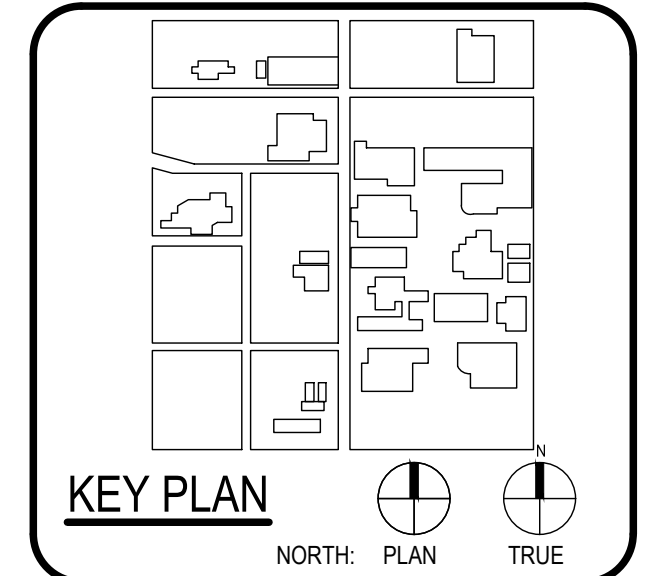
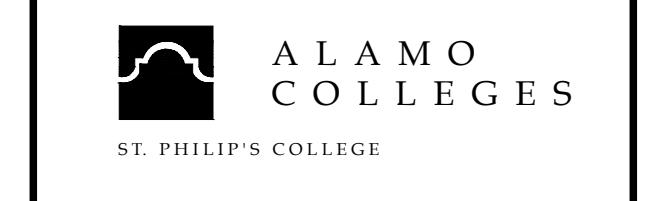
# ISSUE FOR PERMIT

Sheet Grids Template  
2400  
FOR BLUEBAM LABELING.COR.



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 BRUNNEN CELEBRITY LANDSCAPE DESIGN GROUP 1133400000 LUNDY & HARRIS ENGINEERING 1133400000 T. J. JONES PROVIDER MEAN PROJECTS 1133400000 MEAN 1288481860	

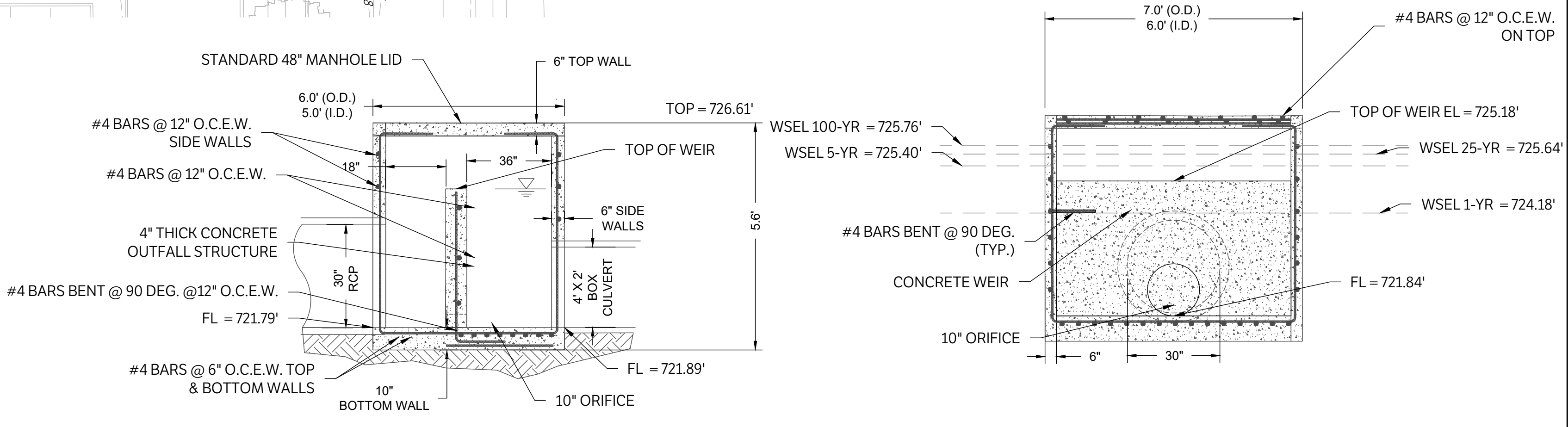
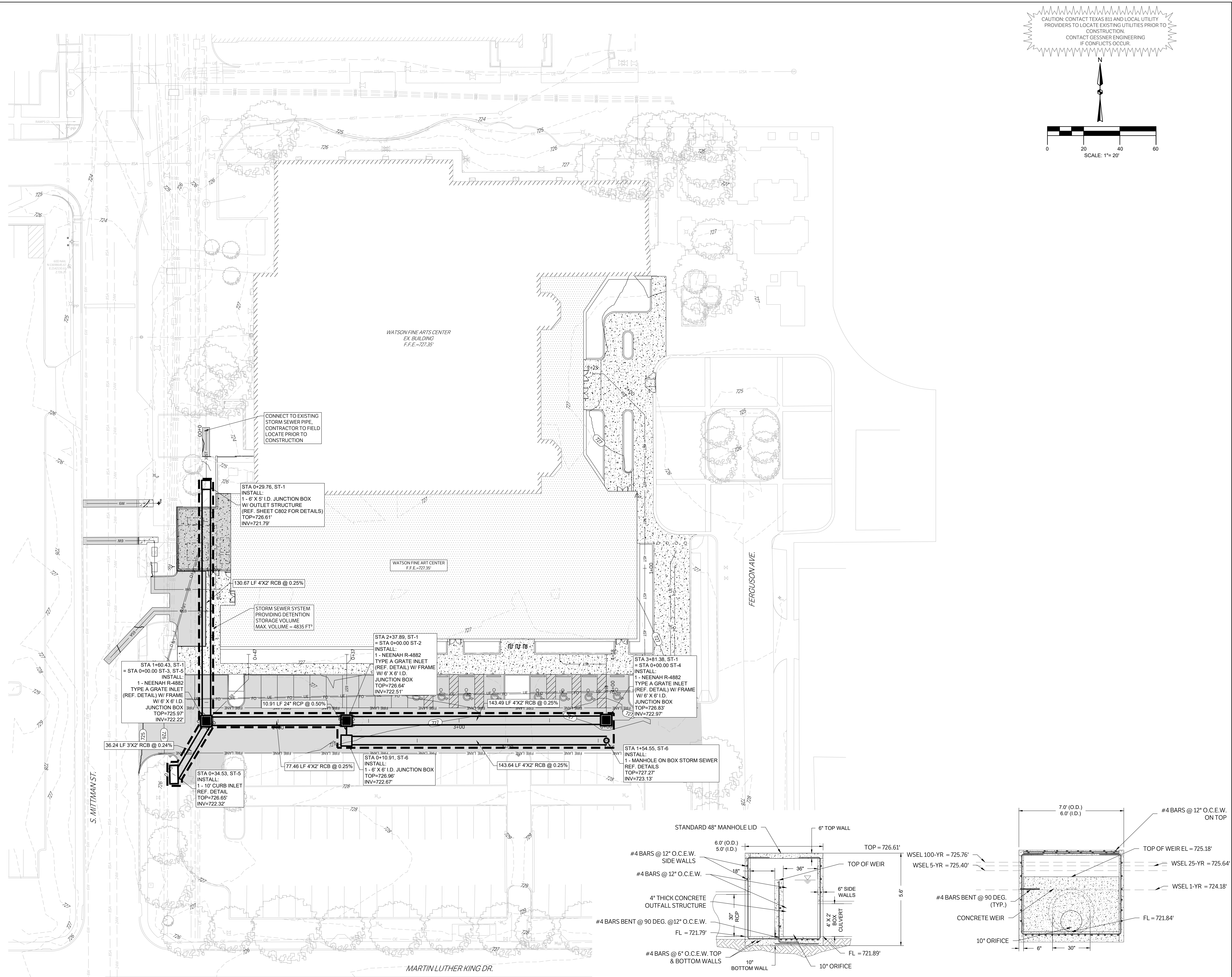
WFAC Black Box Addition PKG 1



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

ISSUE FOR PERMIT  
BUILDING NUMBER

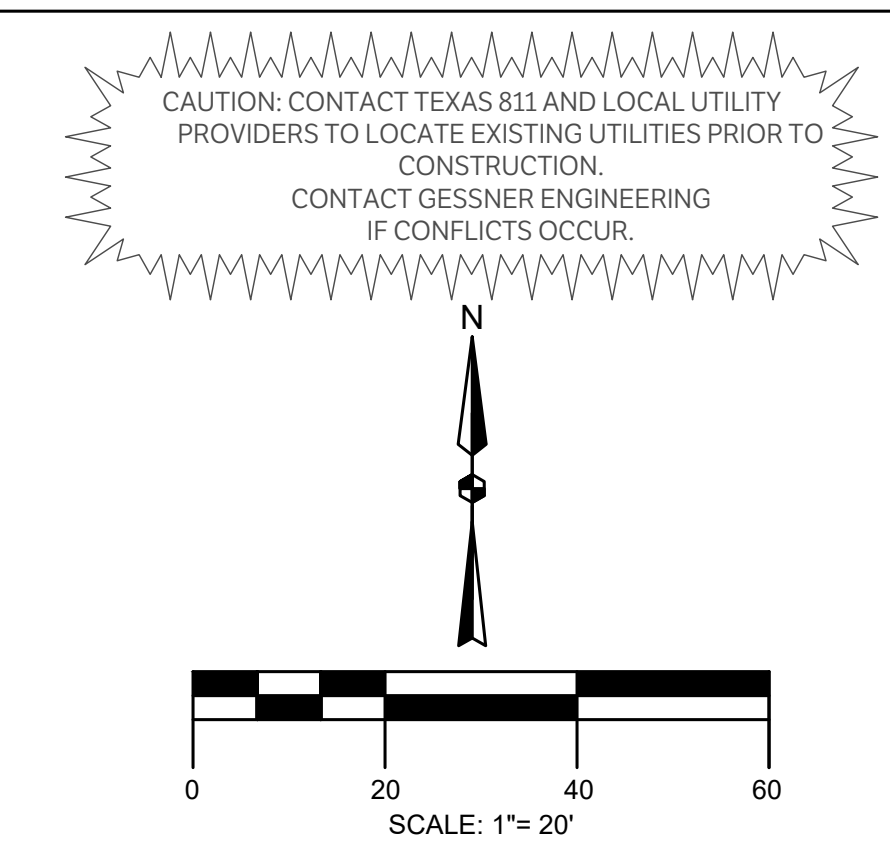
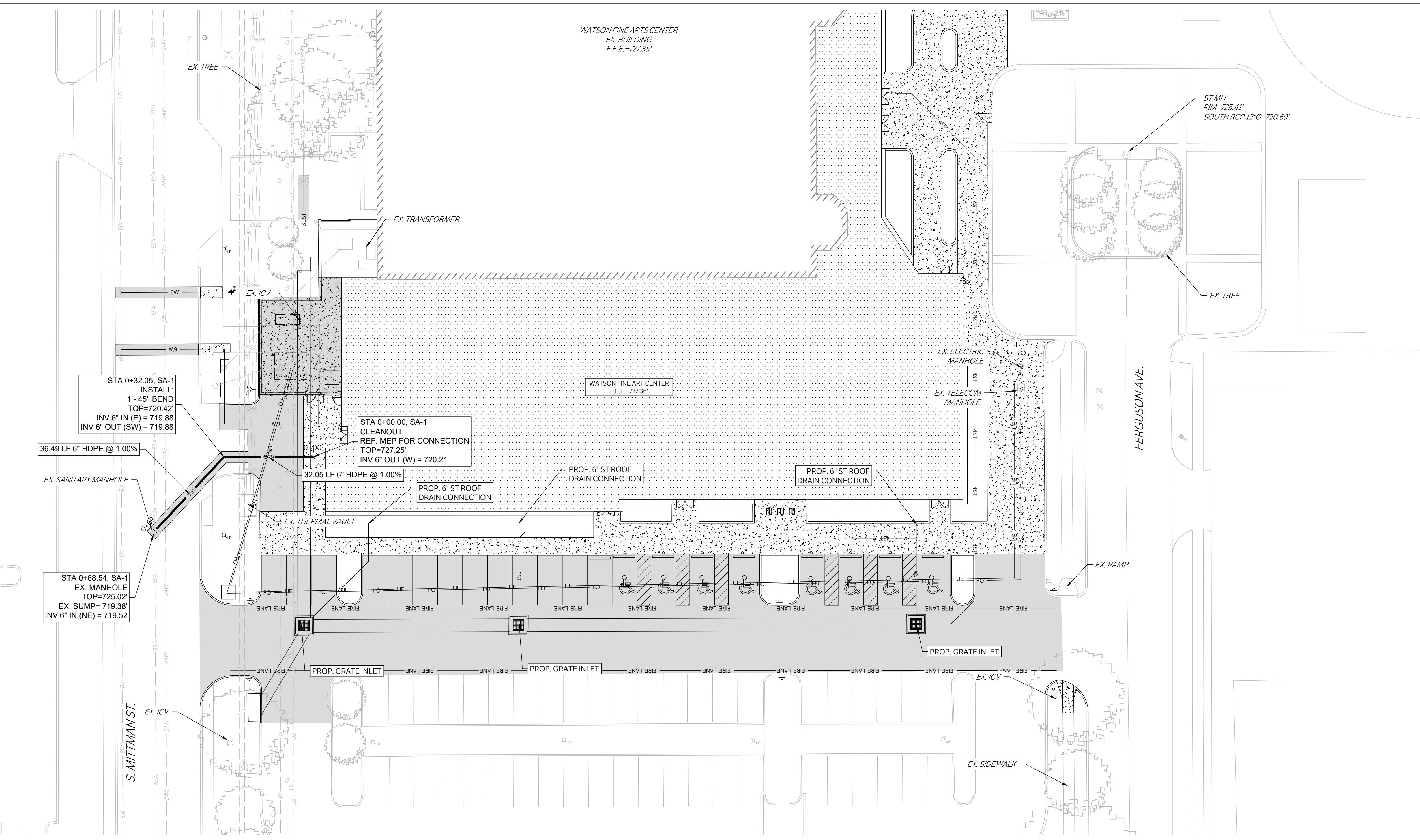
**DETENTION PLAN**  
**C802**



UNDERGROUND DETENTION OUTLET STRUCTURE  
N.T.S.  
NOTES:  
1. ALL REINFORCEMENT BARS TO HAVE 2\"/>

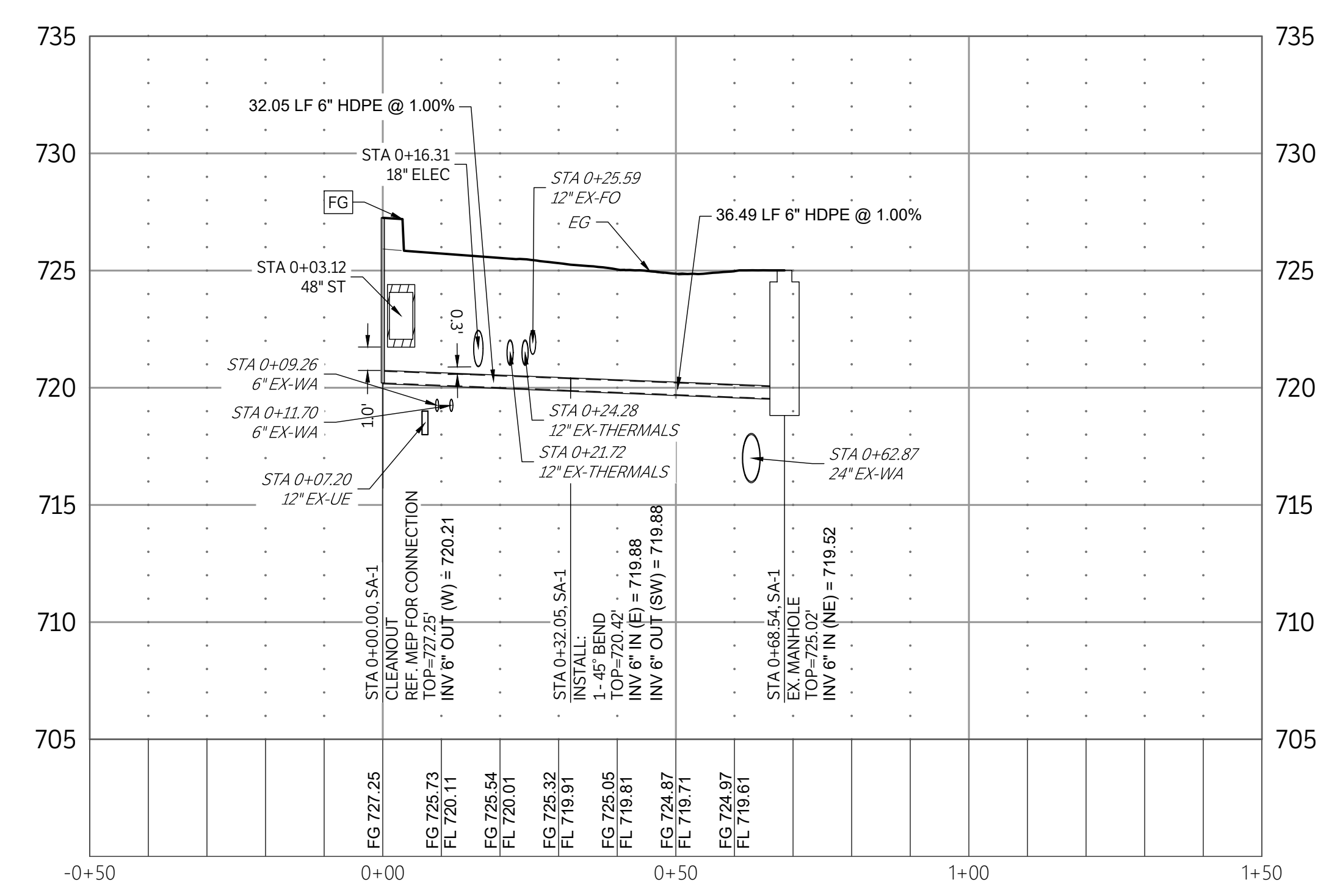
CHECKED BY: SH & AL  
DRAWN BY: JC

# ISSUE FOR CONSTRUCTION



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

LEGEND	
	PROPOSED ASPHALT PAVEMENT
	PROPOSED STRUCTURAL PAVEMENT

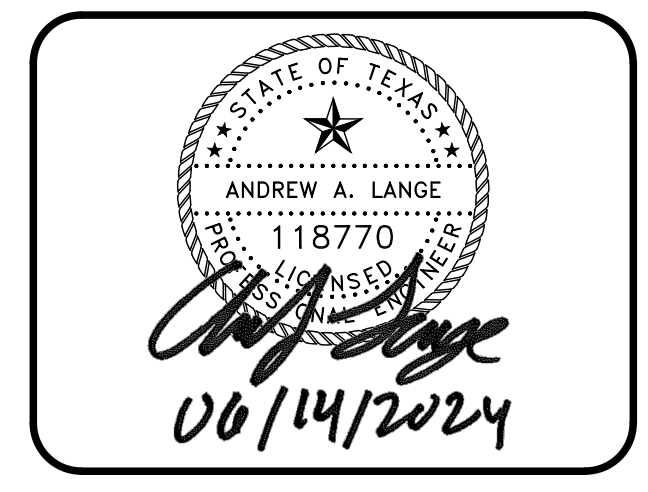
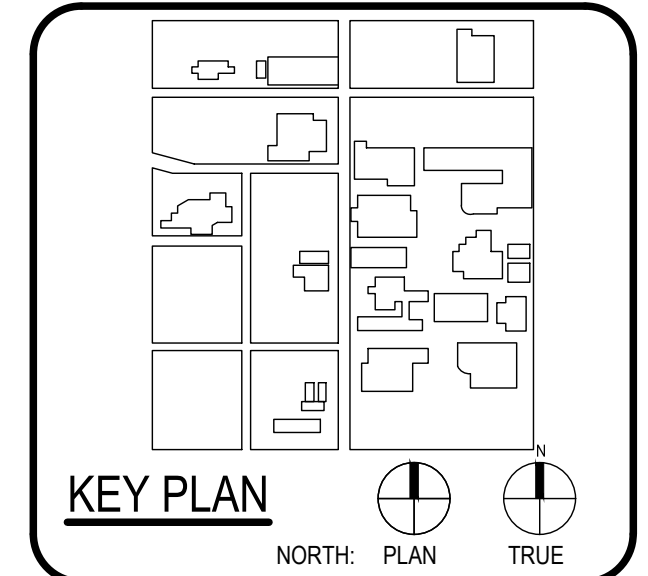
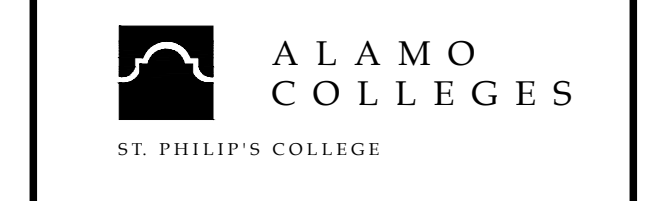


SA-1  
SCALE: 1"=20' H, 1"=5' V



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
1301 BRUNNEN CELEBRITY LANDSCAPE DESIGN GROUP 1131 W. 30th SAN ANTONIO, TX 78202 LUNDY & HARRIS ENGINEERING 1131 W. 30th SAN ANTONIO, TX 78202 TRAVIS NEAR POWER SIGNALS 1131 W. 30th SAN ANTONIO, TX 78202 T.281.681.8600	

## WFAC Black Box Addition PKG 1

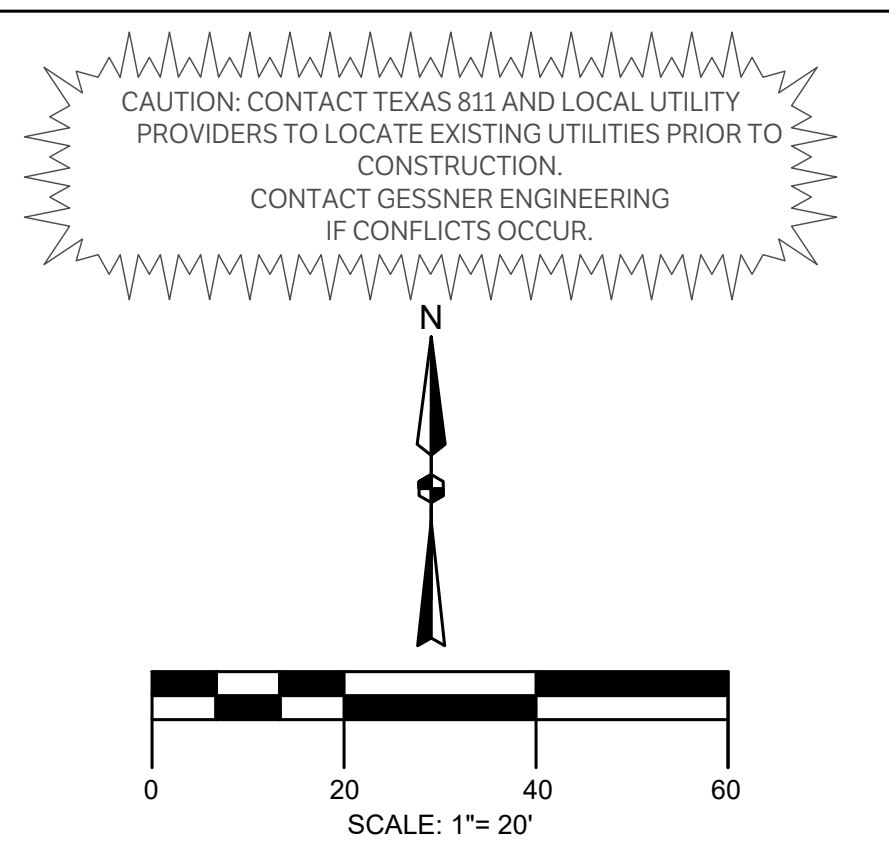
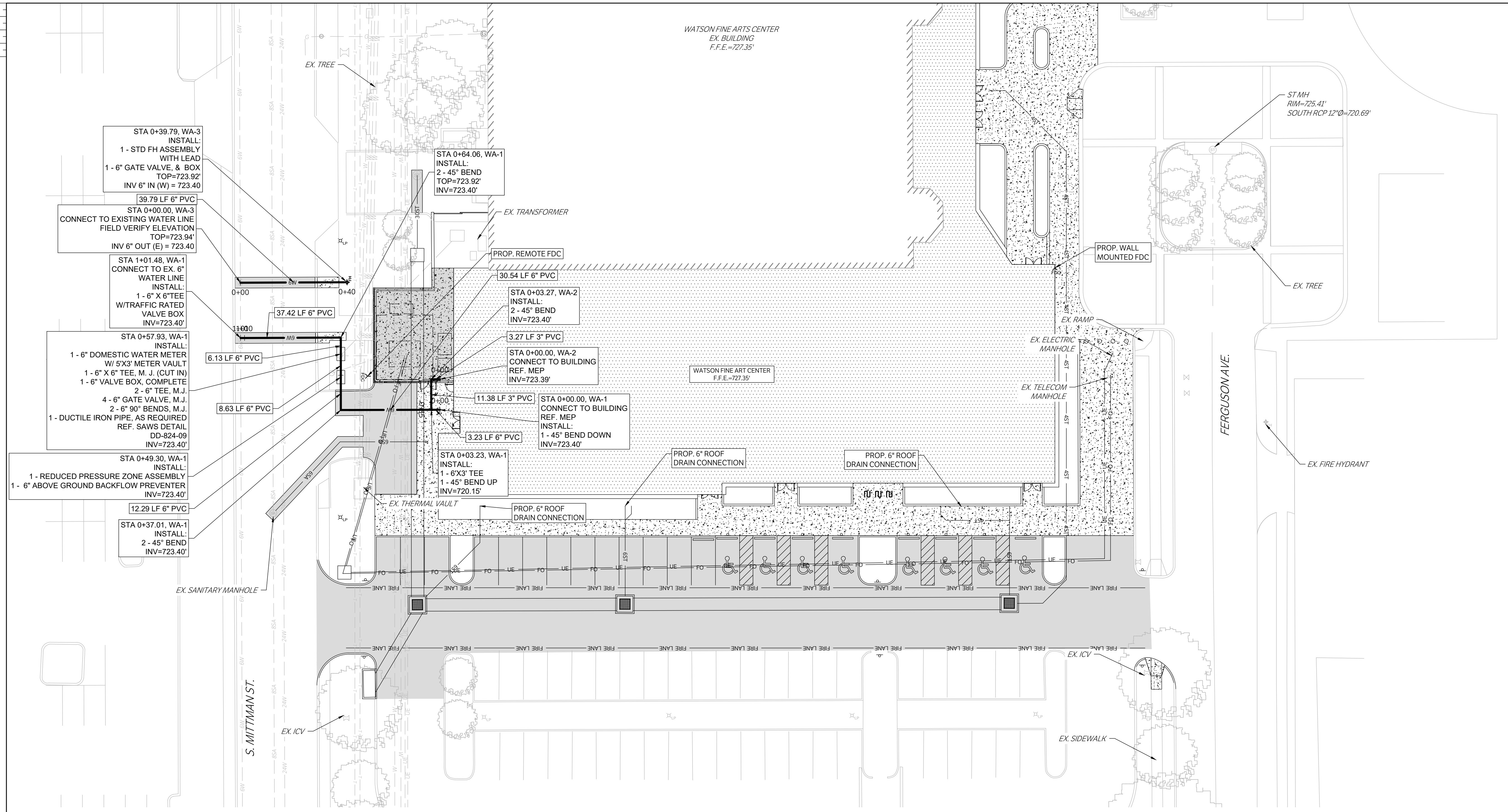


CLIENT		
Alamo Colleges	PROJECT NUMBER	
DATE	230462	
2024/06/12		
DRAWING HISTORY		
No.	Description	Date

ISSUE FOR CONSTRUCTION  
BUILDING NUMBER  
**SANITARY PLAN & PROFILES**

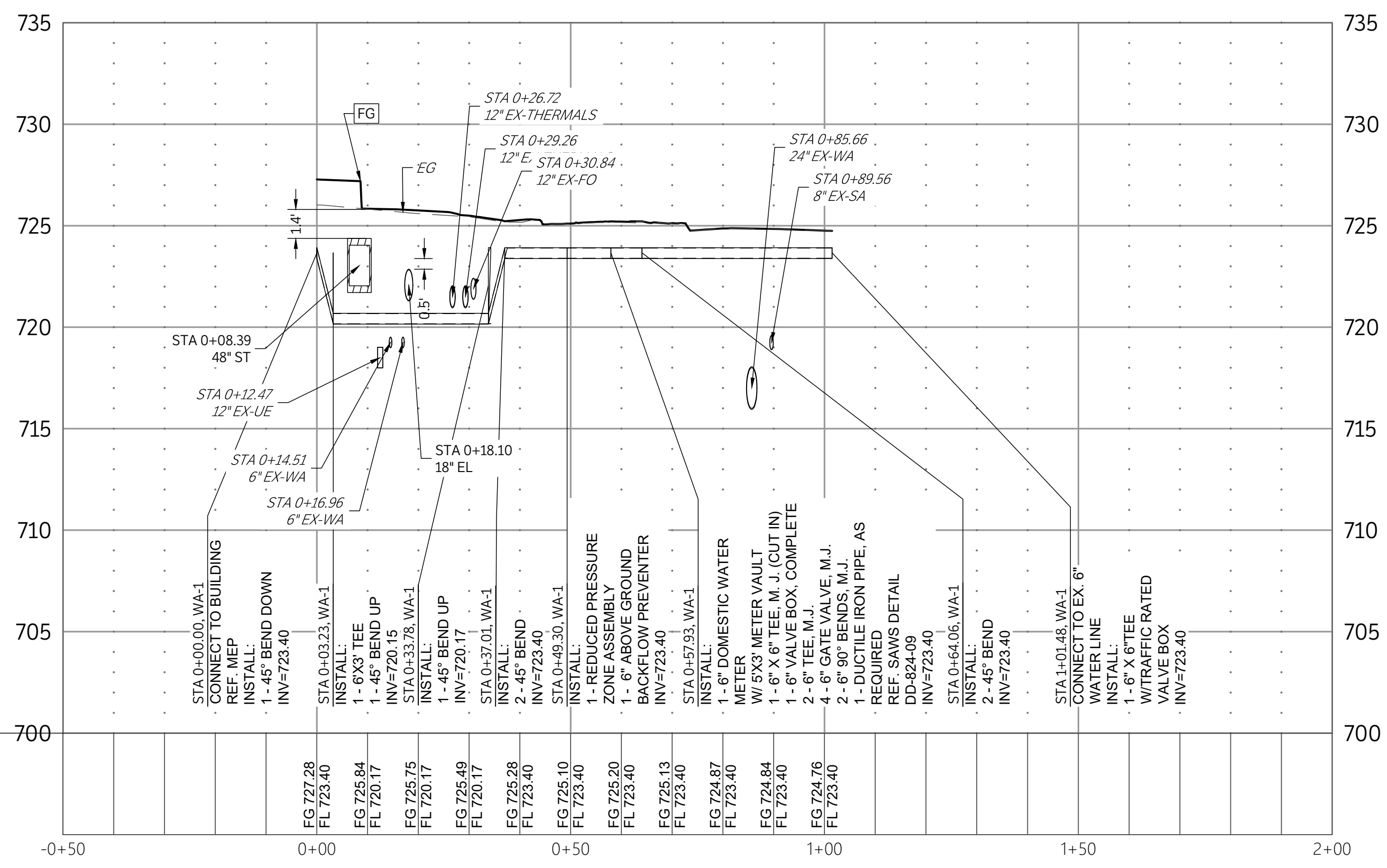
**C900**

# ISSUE FOR CONSTRUCTION

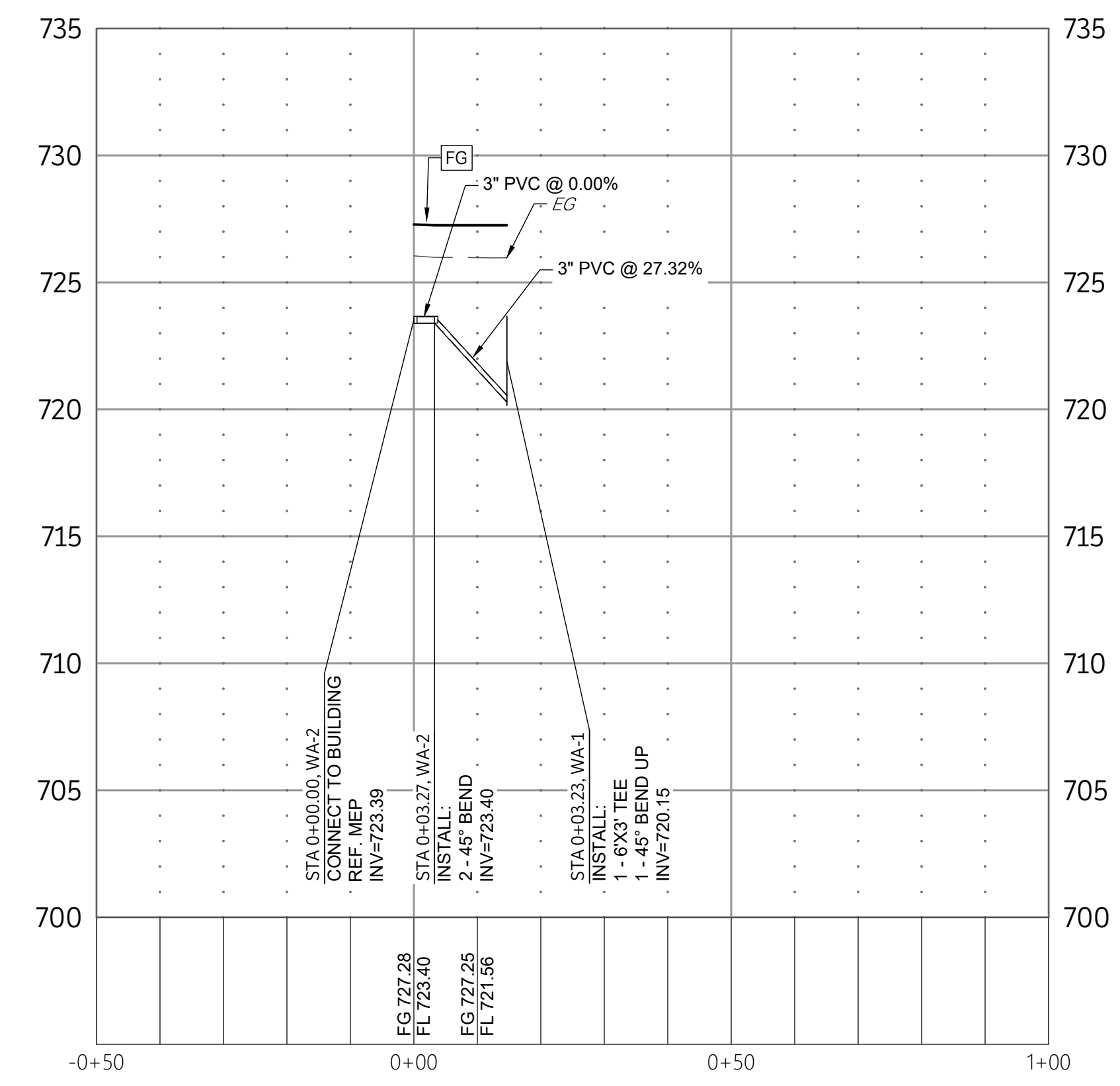


NOTE:  
CONTRACTOR TO FIELD VERIFY EXISTING  
UTILITY INVERTS PRIOR TO CONSTRUCTION

LEGEND	
[Symbol]	PROPOSED ASPHALT PAVEMENT
[Symbol]	PROPOSED STRUCTURAL PAVEMENT
[Symbol]	PROPOSED 4" CONCRETE SIDEWALK
[Symbol]	PROPOSED BUILDING
[Symbol]	EXISTING PAVEMENT EDGE
[Symbol]	PROPERTY LINE
[Symbol]	EXISTING EASEMENT
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[Symbol]	EXISTING CONTOURS
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[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
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[Symbol]	EX. IRRIGATION CONTROL VALVE
[Symbol]	PROP. FIRE DEPARTMENT CONNECTION
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[Symbol]	EX.   PROP. LIGHT POLE
[Symbol]	PROPOSED PUBLIC ACCESS EASEMENT
[Symbol]	PROPOSED UTILITY EASEMENT



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

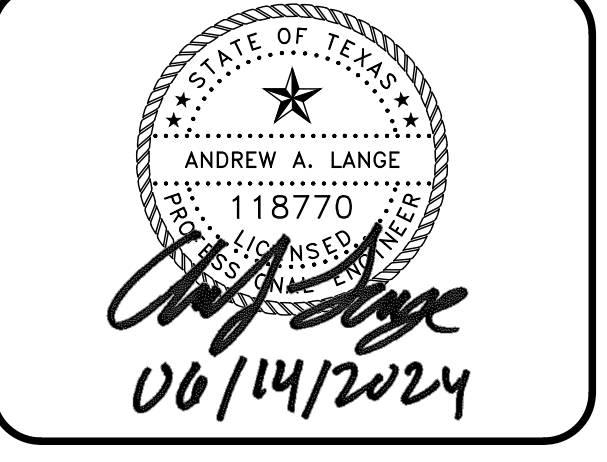
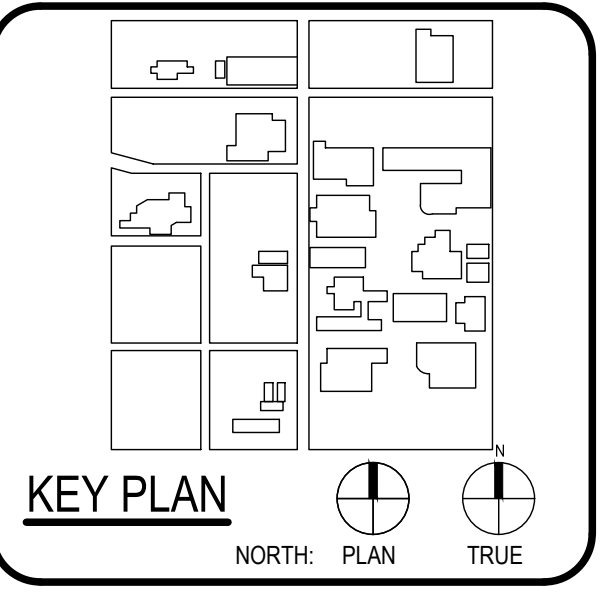


WA-2  
SCALE: 1"=20' H, 1"=5' V



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	
ARCHITECT	BA & ARCHITECTS
1301 BRUNNEN DESIGN LANDSCAPE ROSE LANE GROUP 1131 W. 30th SAN ANTONIO, TX 78207 LUNY & HARRIS ENGINEERING 1301 BRUNNEN SAN ANTONIO, TX 78207 T 210-829-0123 F 210-829-0578 T 210-829-0578 T 210-829-0578	

## WFAC Black Box Addition PKG 1



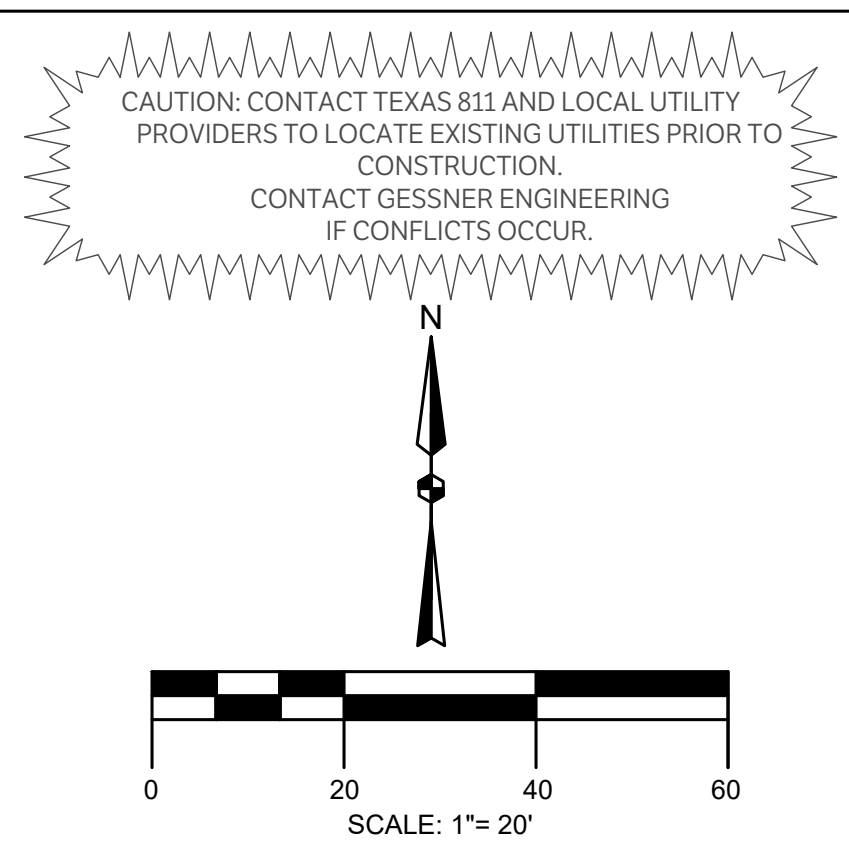
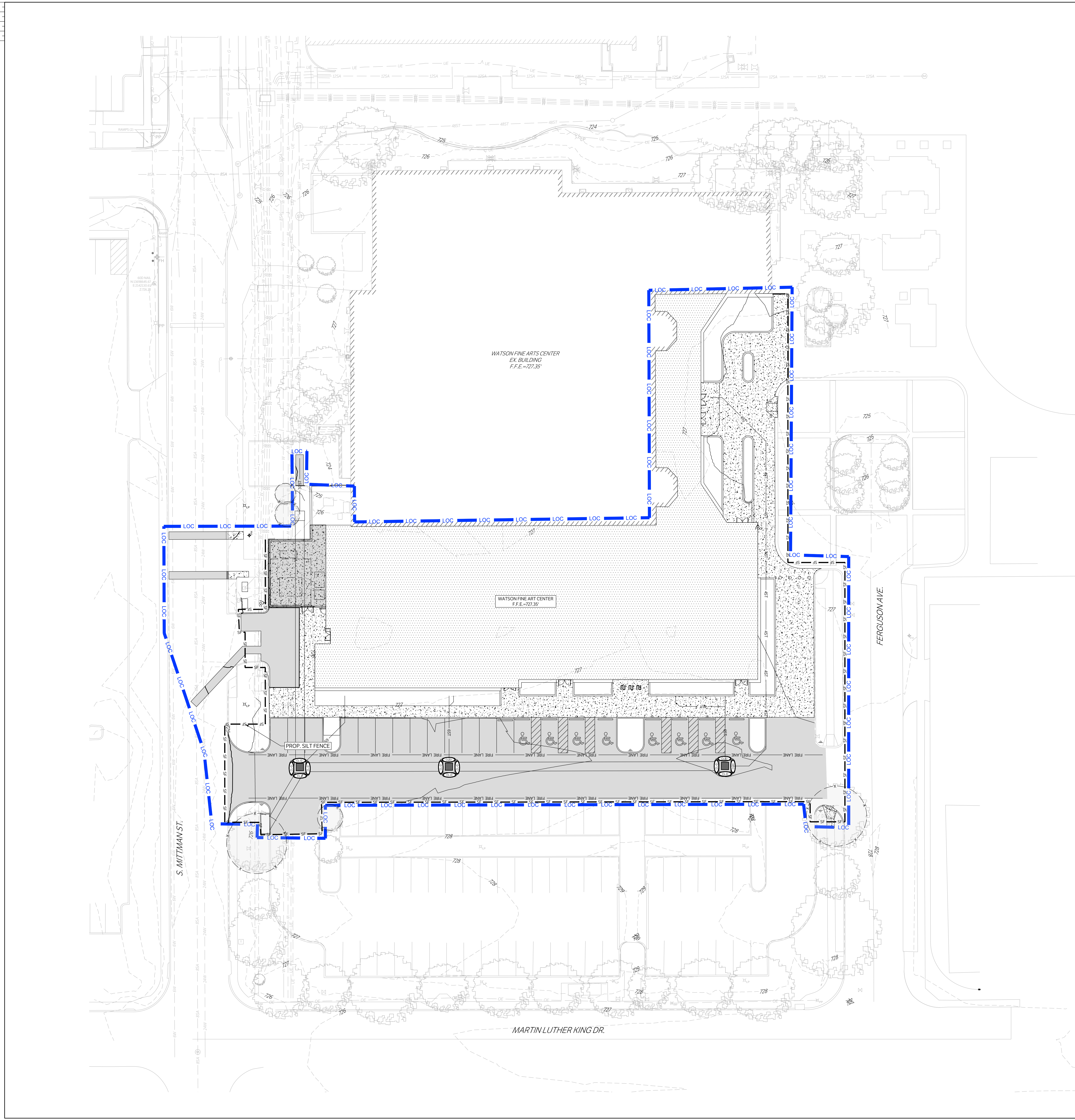
CLIENT		
Alamo Colleges	PROJECT NUMBER	
DATE	230462	
2024/06/12		
DRAWING HISTORY		
No.	Description	Date

ISSUE FOR CONSTRUCTION  
BUILDING NUMBER

## WATER PLAN & PROFILES

# C1000

# 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.

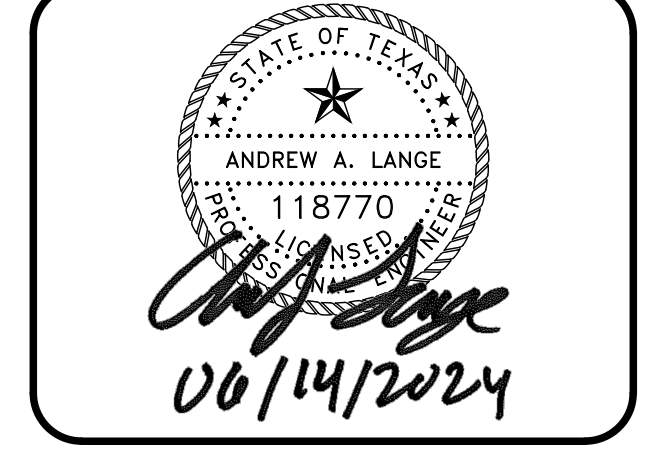
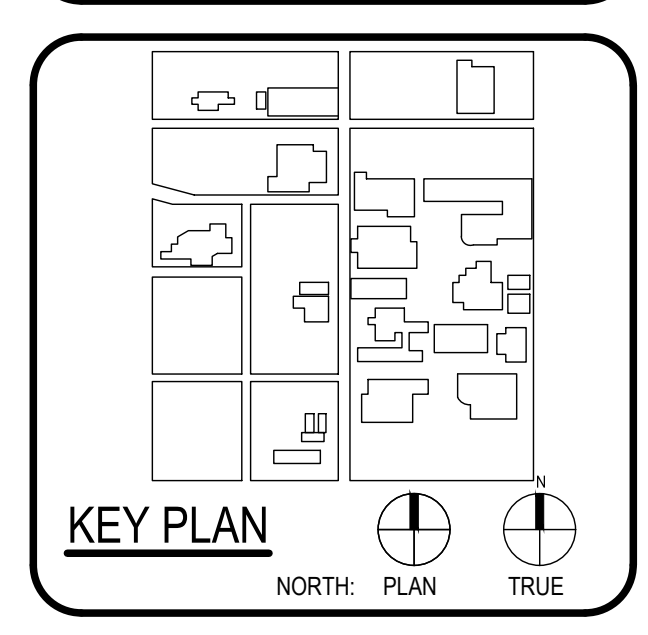
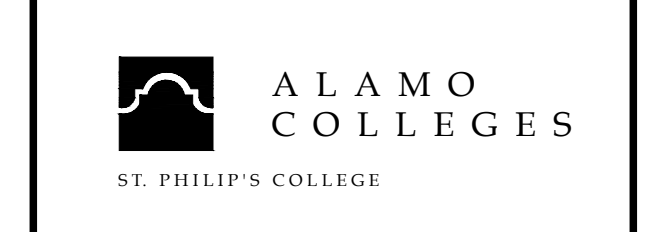


ARCHITECT	PBK Architects, Inc.
601 N.W. Loop 410, Suite 400 San Antonio, TX 78216 210-829-0123 P 210-829-0578 F TX Firm BR 1608	
ASSOCIATE ARCHITECT	BA ARCHITECTS
1701 BRUNNEN CELEBRITY LANDSCAPE DESIGN GROUP 1713 BRUNNEN CELEBRITY LUNY & HARRIS ENGINEERING 1713 BRUNNEN CELEBRITY TRAVIS PROLOGUE MEAN PROFESSIONALS 1713 BRUNNEN CELEBRITY TRAVIS	

**WFAC Black Box Addition PKG 1**

600 S Mittman 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**

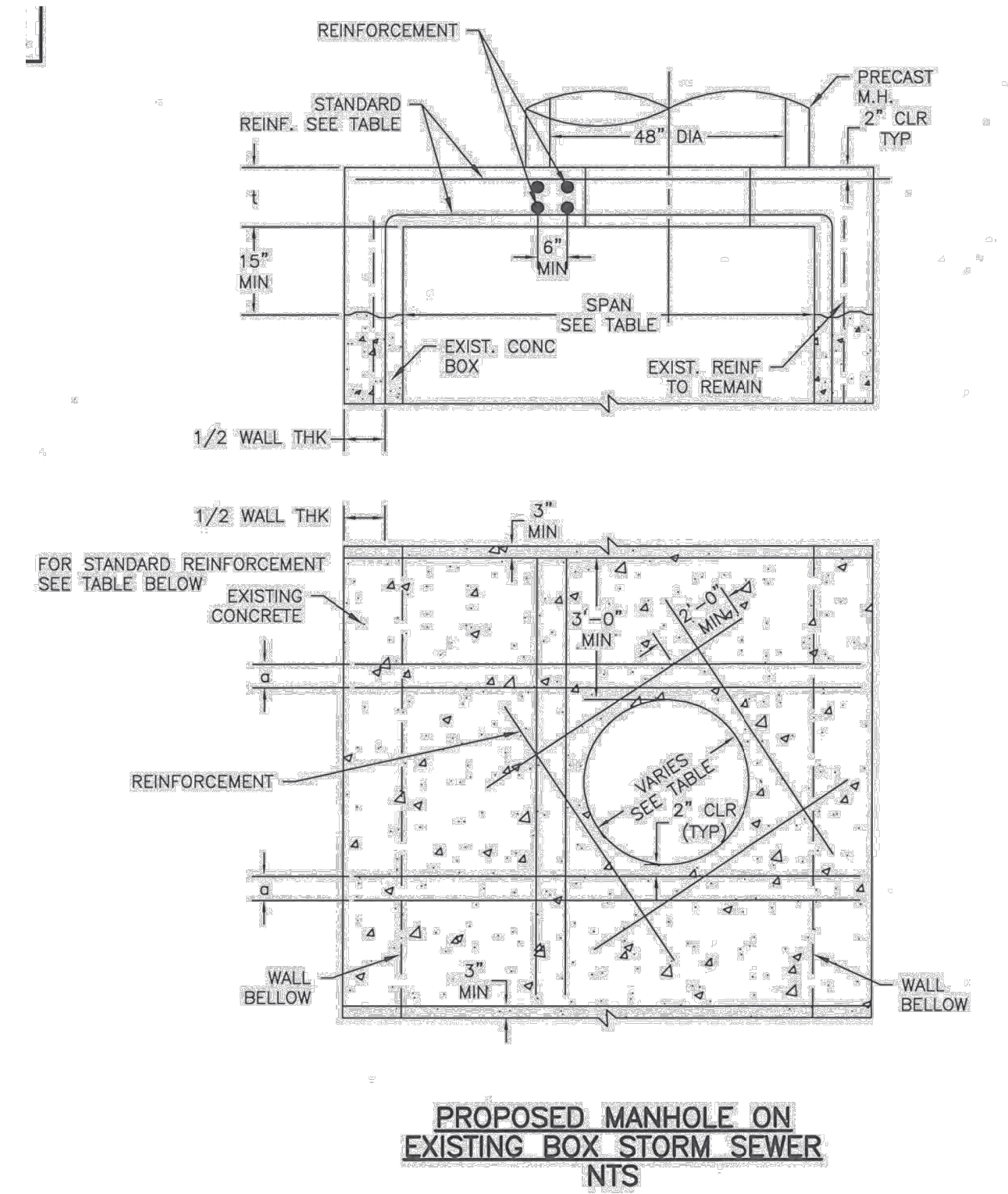
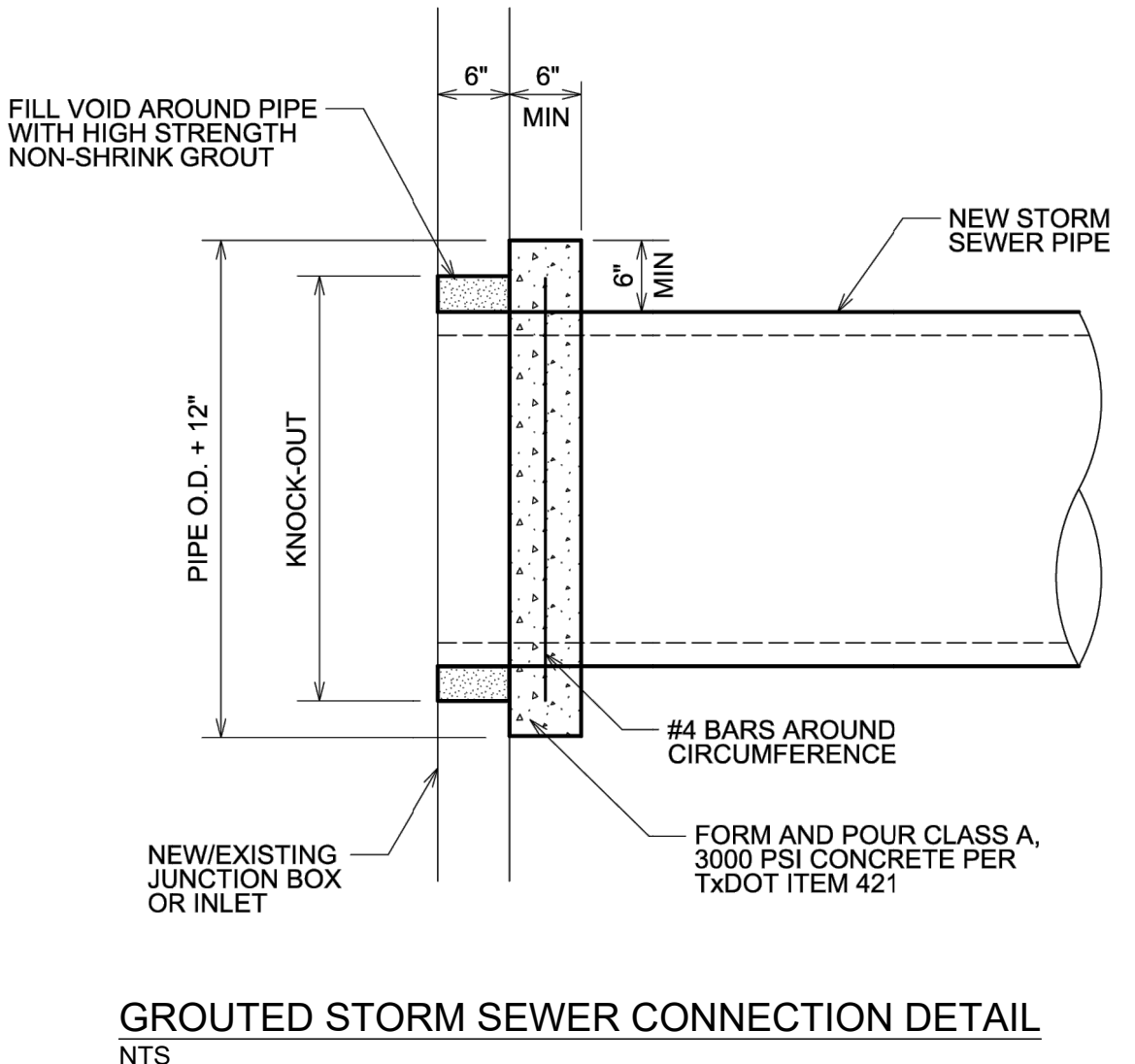
BUILDING NUMBER

**EROSION CONTROL**

**C1100**

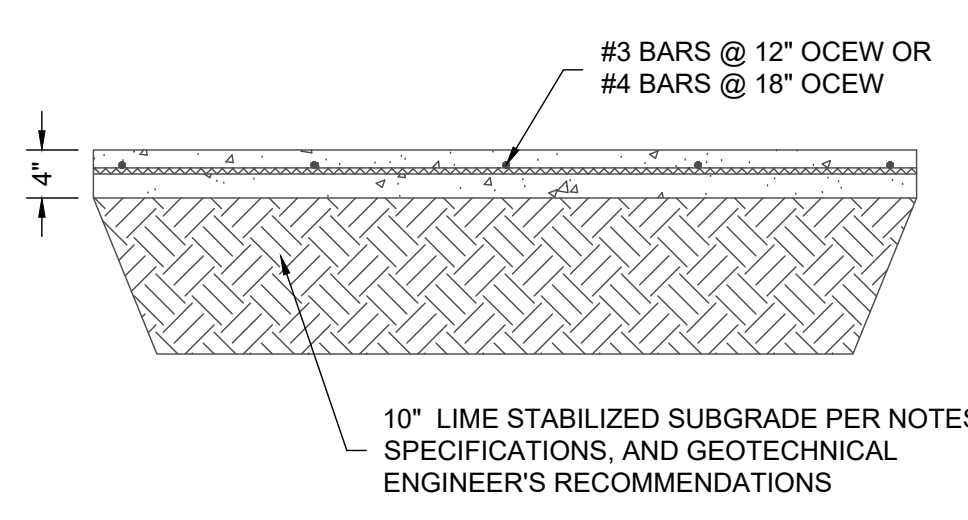
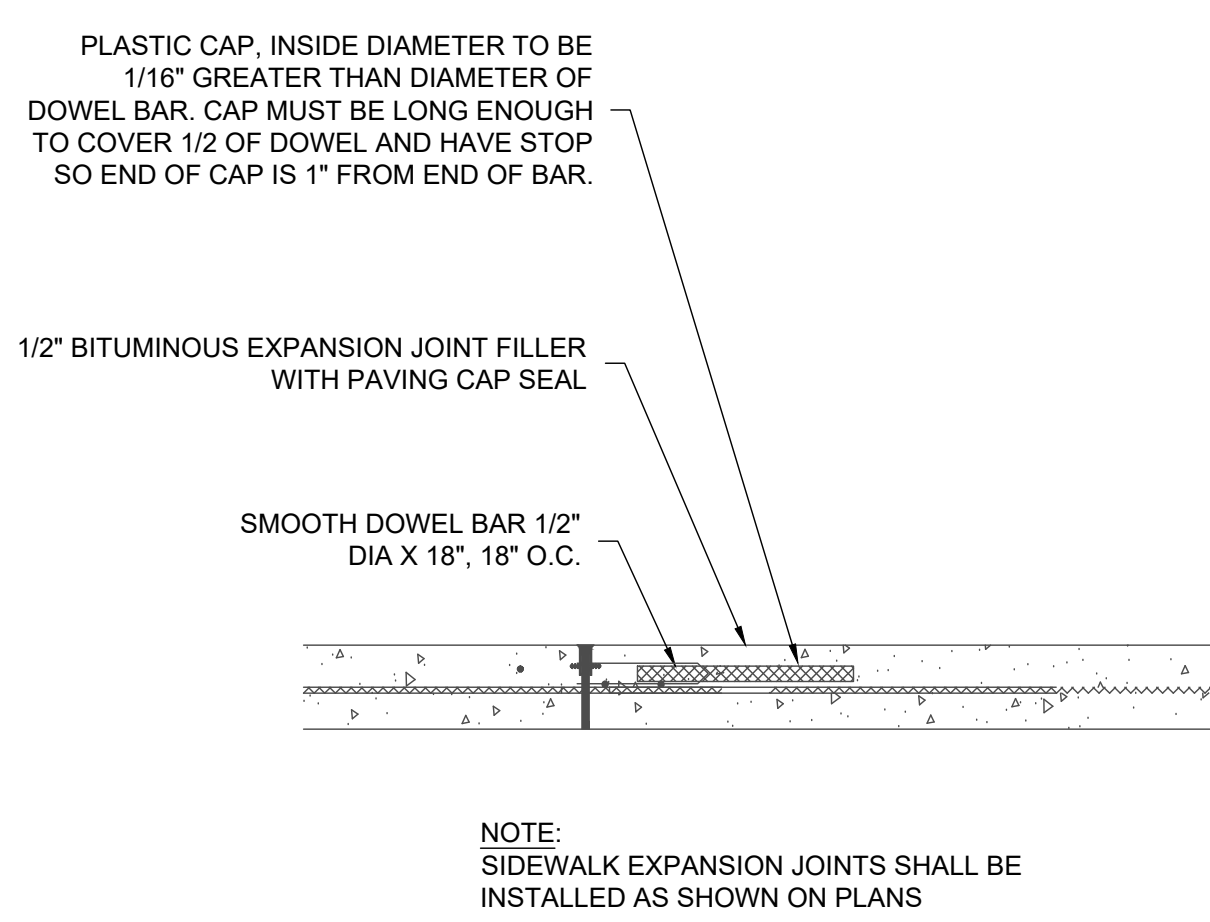
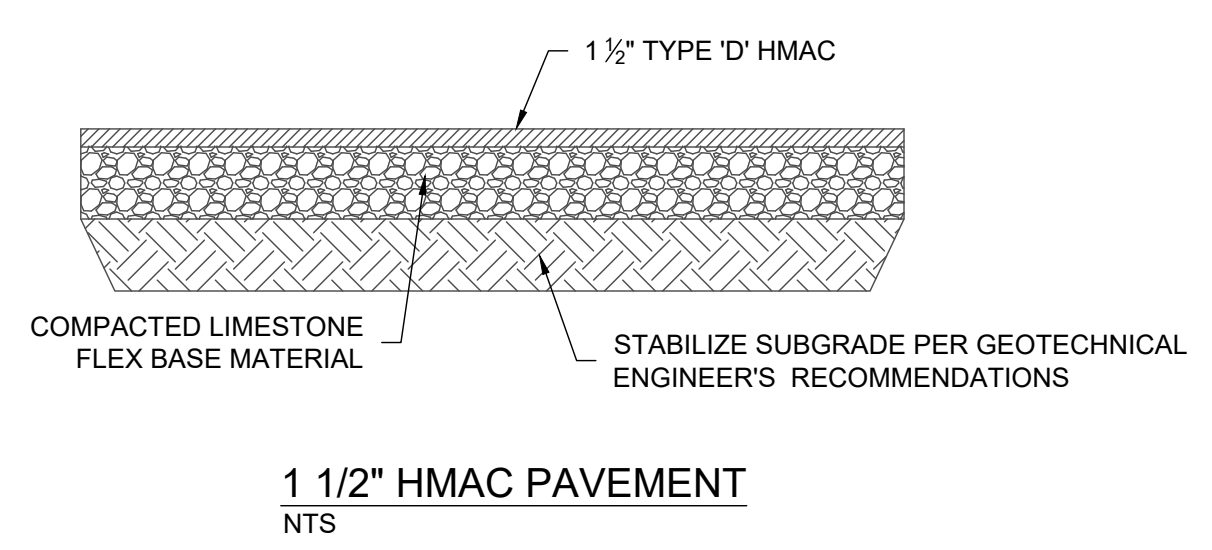
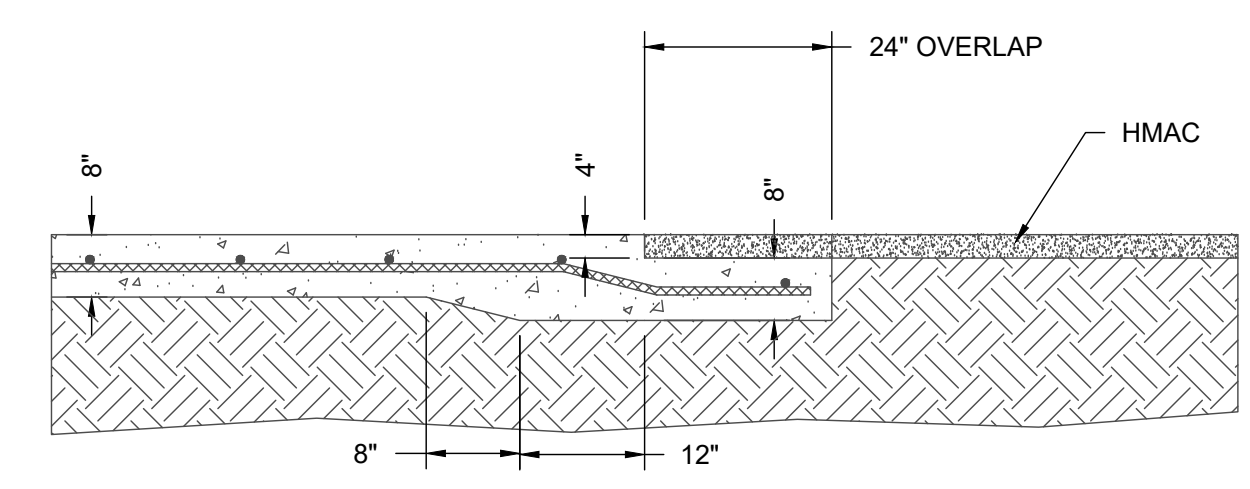
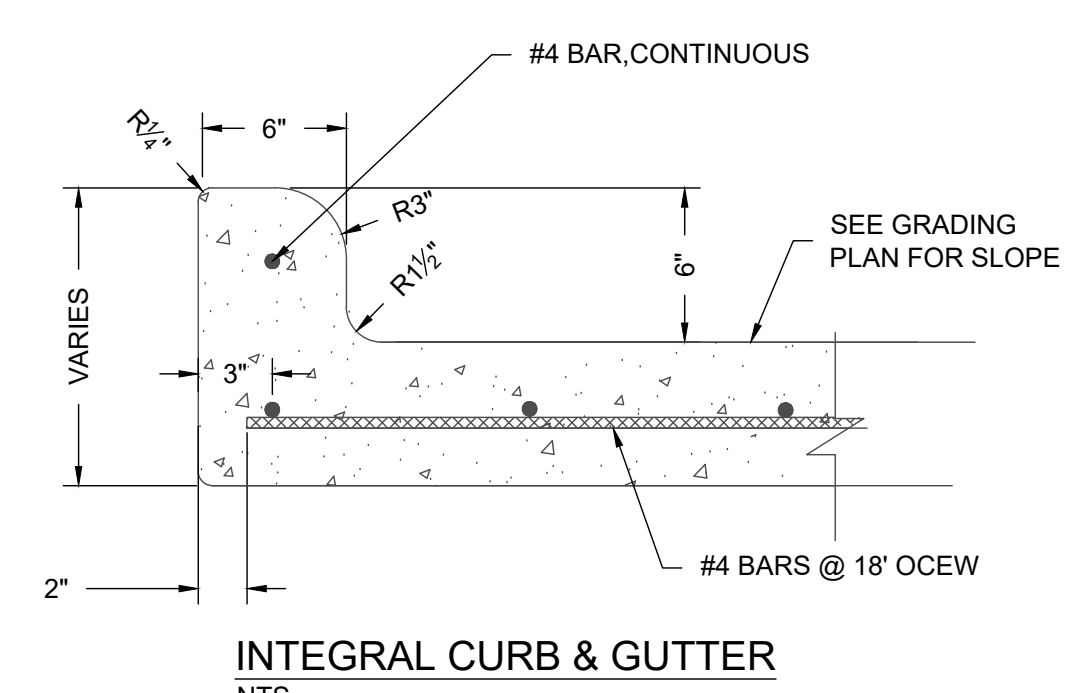
**GENERAL NOTES**

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



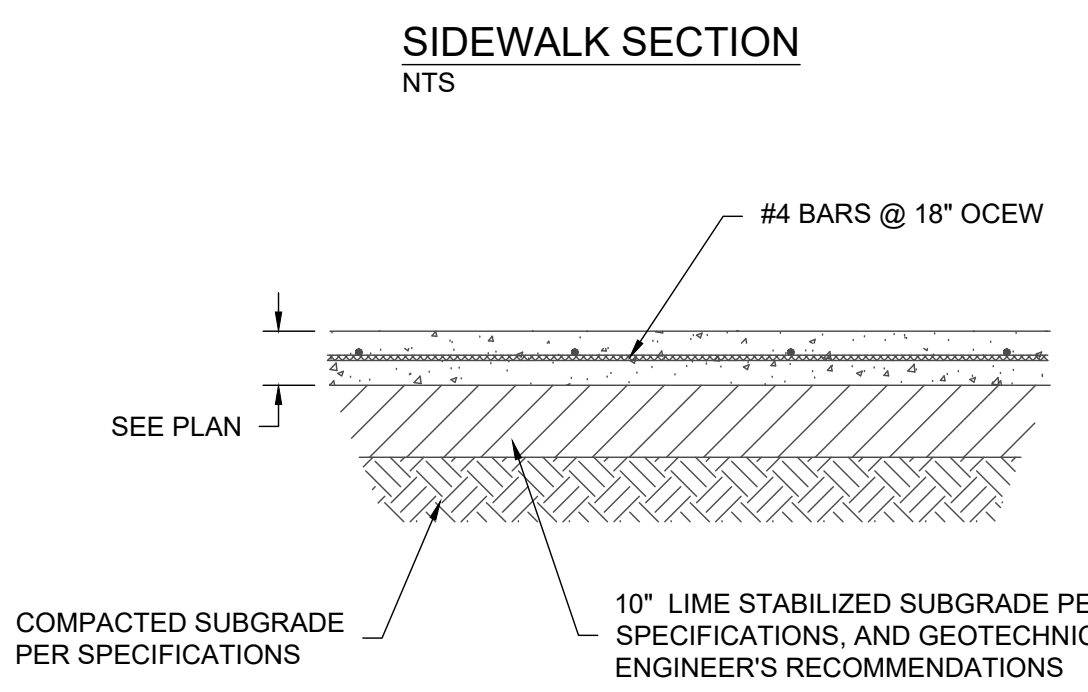
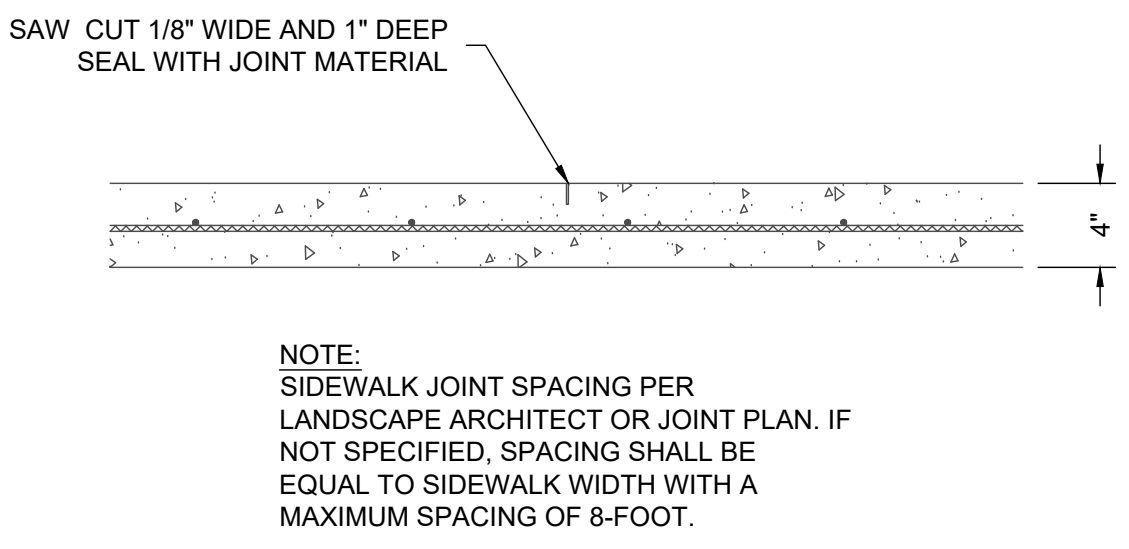
**TABLE**  
SEWER SIZE VS. OPENING

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



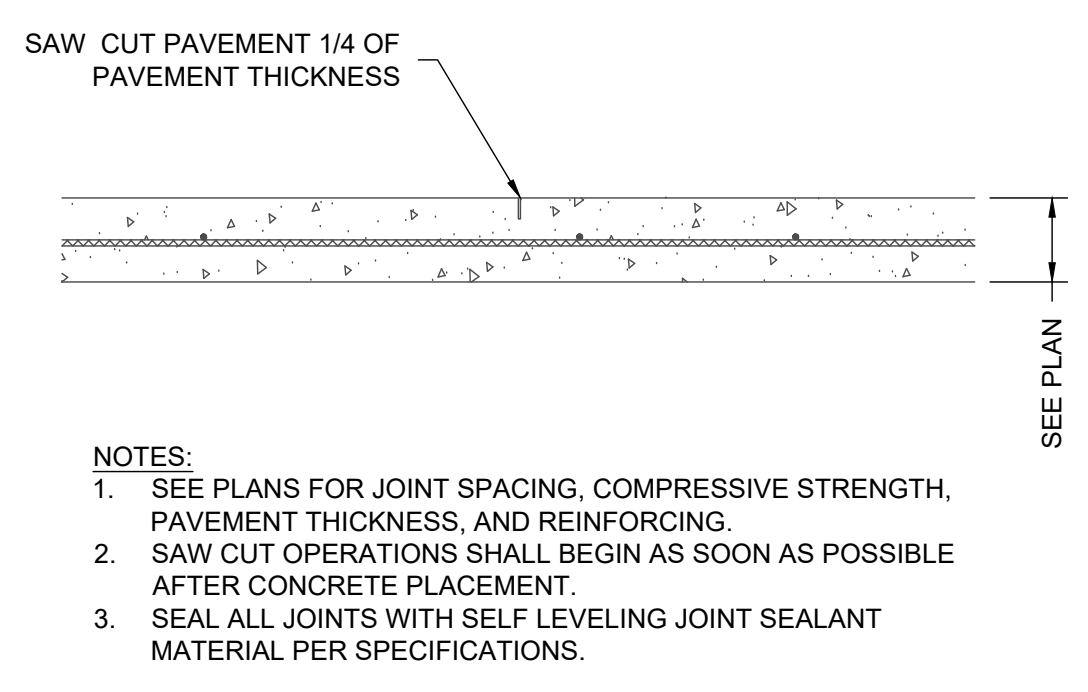
- NOTES:**
- SUBGRADE STABILIZATION SHALL BE PER GEOTECHNICAL RECOMMENDATIONS AND LIME/CEMENT SERIES BASED ON ACTUAL SUBGRADE CONDITIONS.
  - SAW CUT OPERATIONS SHALL BEGIN AS SOON AS POSSIBLE AFTER CONCRETE PLACEMENT.
  - SEAL ALL EXPANSION JOINTS WITH SEAL CAP AND CONTROL JOINTS WITH SELF LEVELING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

**SIDEWALK EXPANSION JOINT**  
NTS

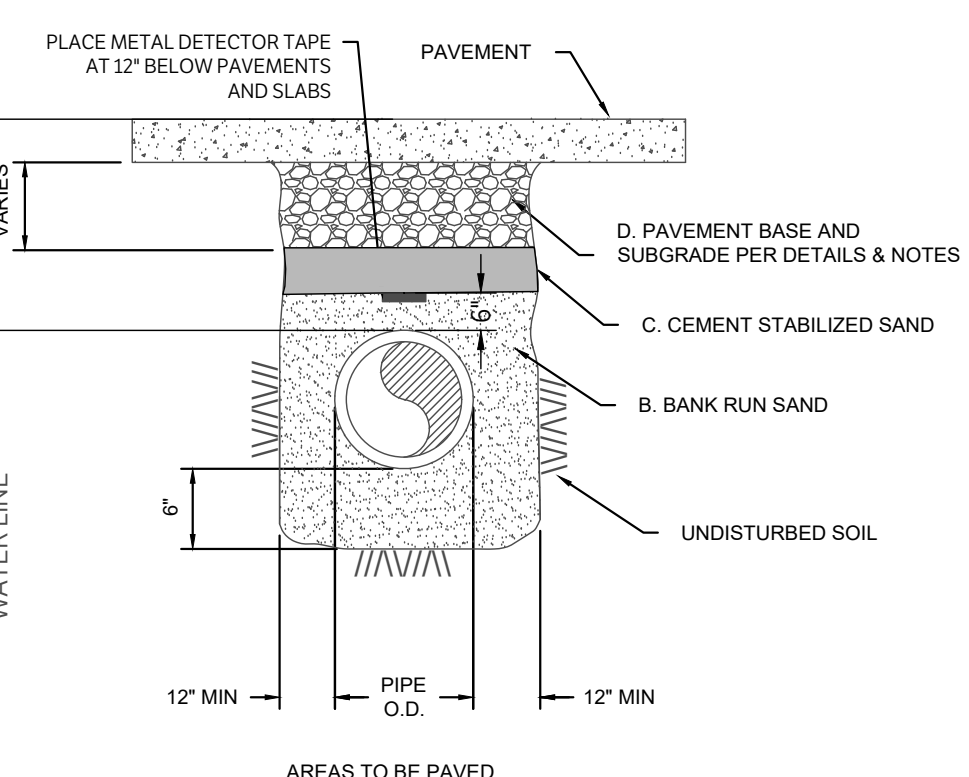
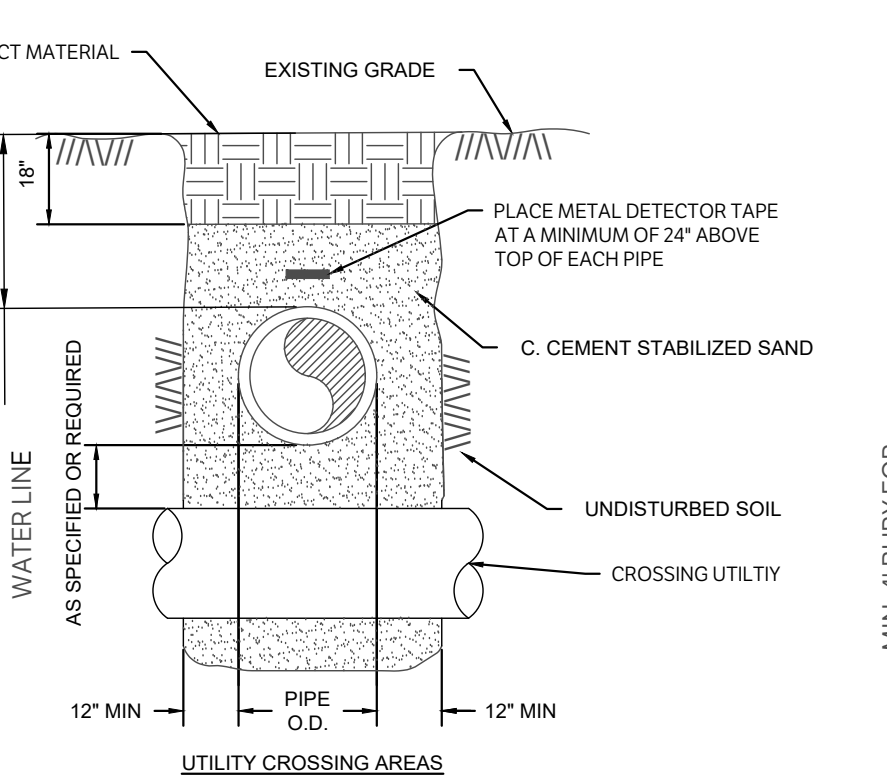
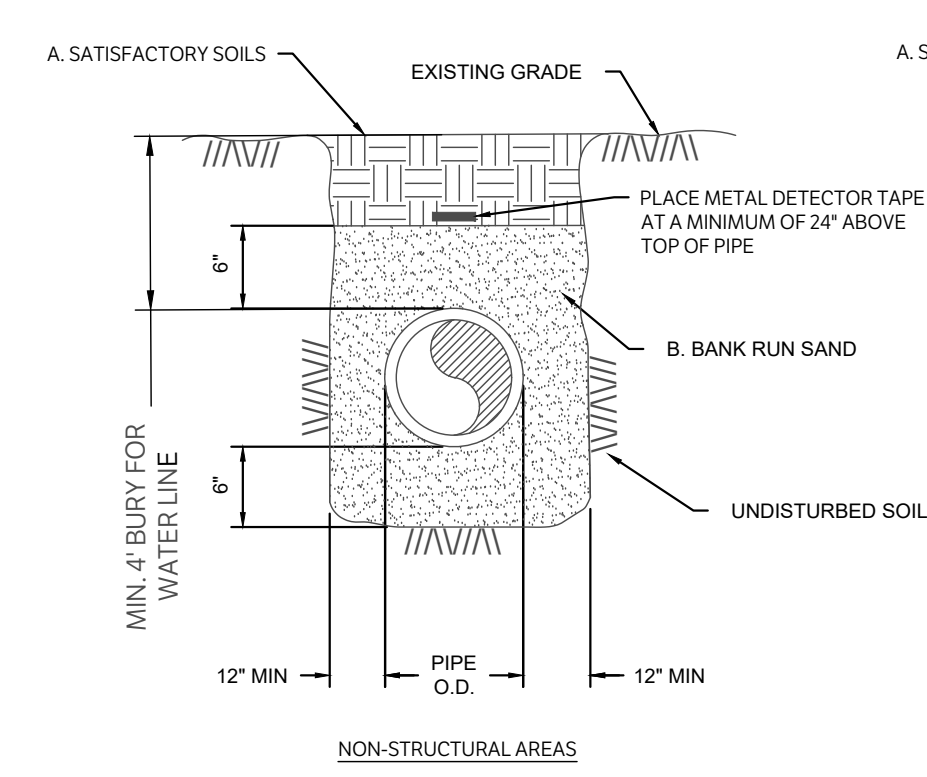


- NOTES:**
- SEE PLAN FOR JOINT SPACING, COMPRESSIVE STRENGTH, PAVEMENT THICKNESS, AND REINFORCING.
  - DEPTH OF STABILIZATION SHALL BE A MINIMUM OF 6 INCHES OR BASED ON GEOTECHNICAL RECOMMENDATIONS SUBGRADE CONDITIONS.
  - SUBGRADE STABILIZATION SHALL BE PER GEOTECHNICAL RECOMMENDATIONS AND LIME/CEMENT SERIES BASED ON ACTUAL SUBGRADE CONDITIONS.

**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.



- 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 A 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.

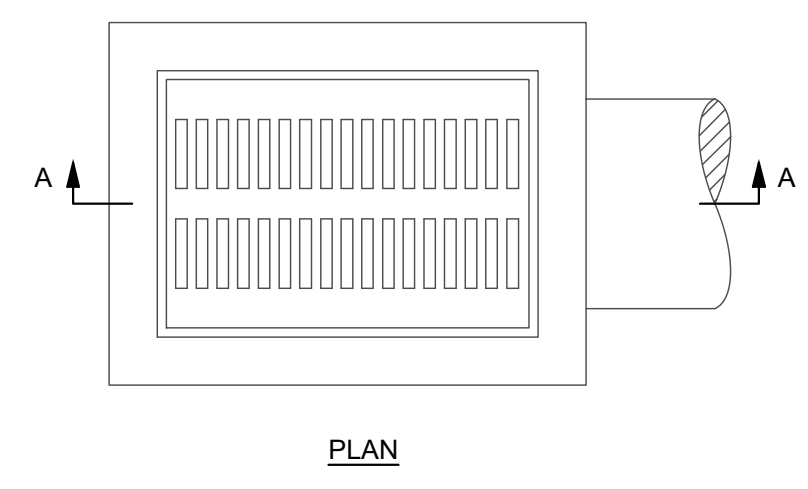
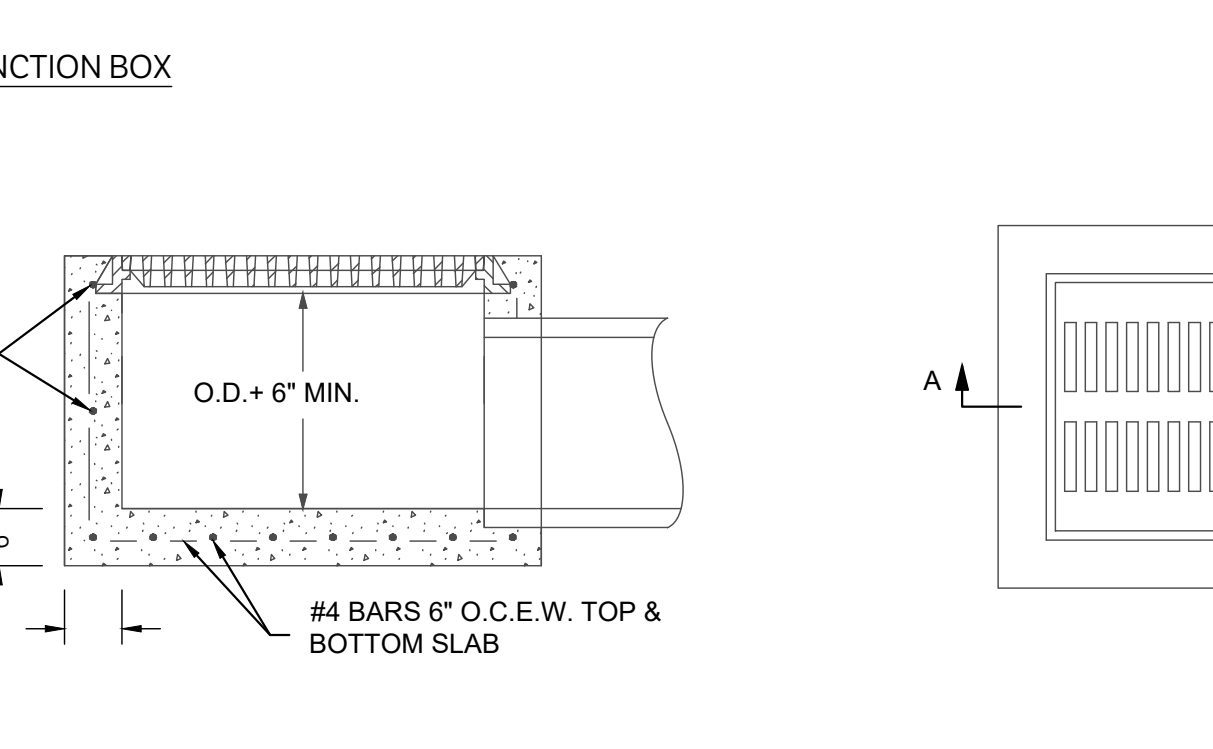
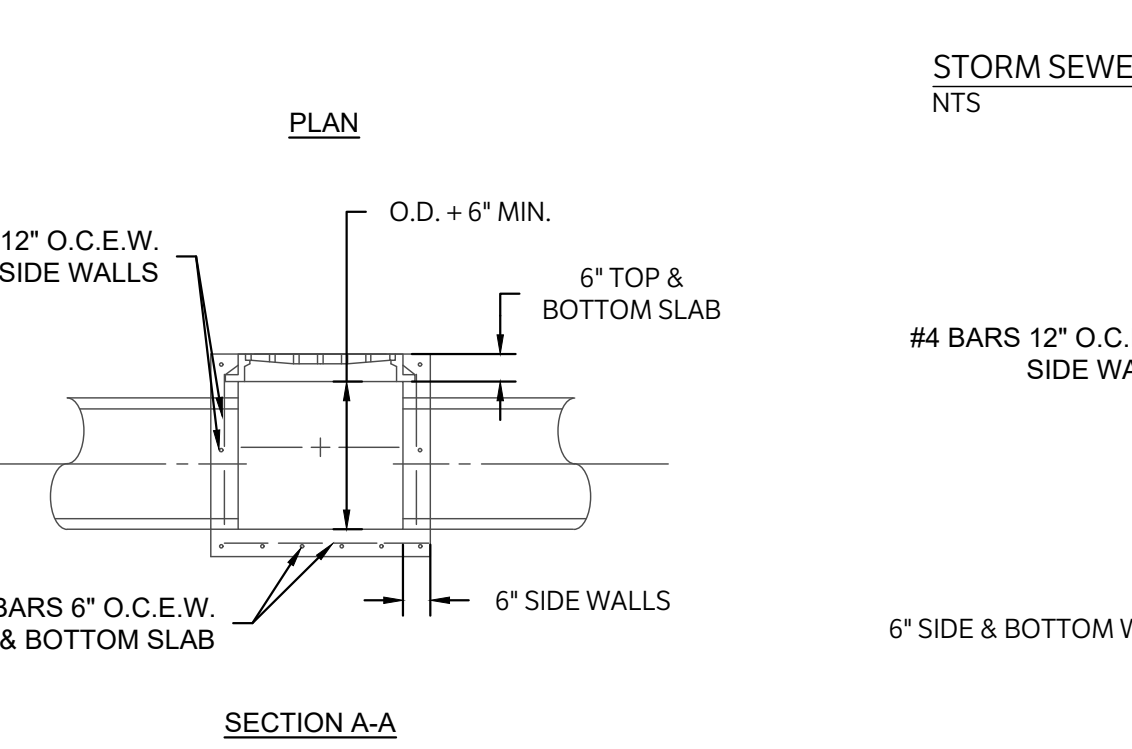
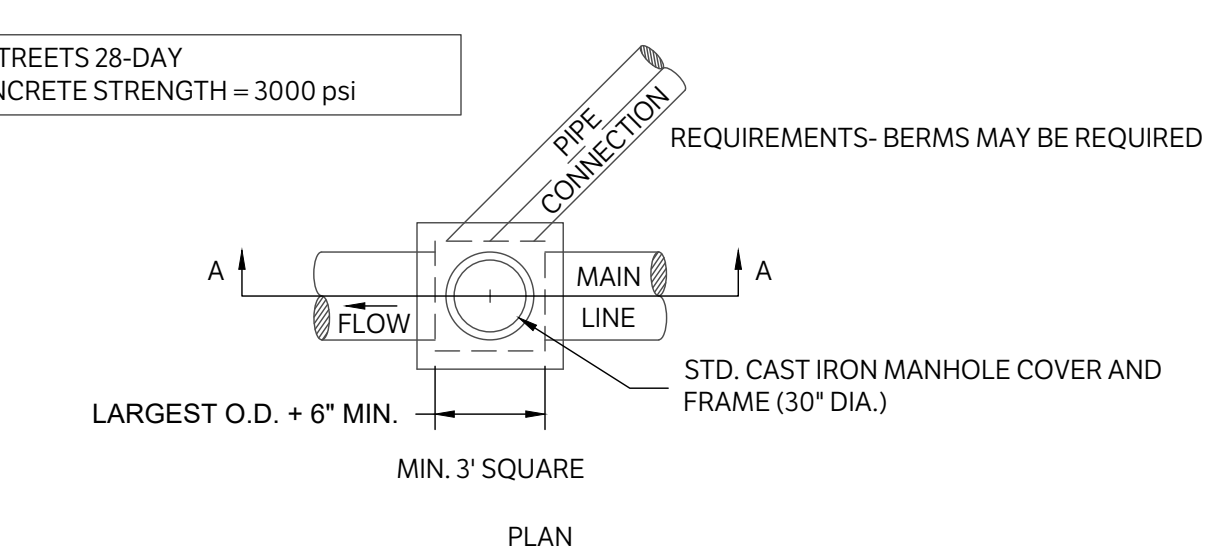
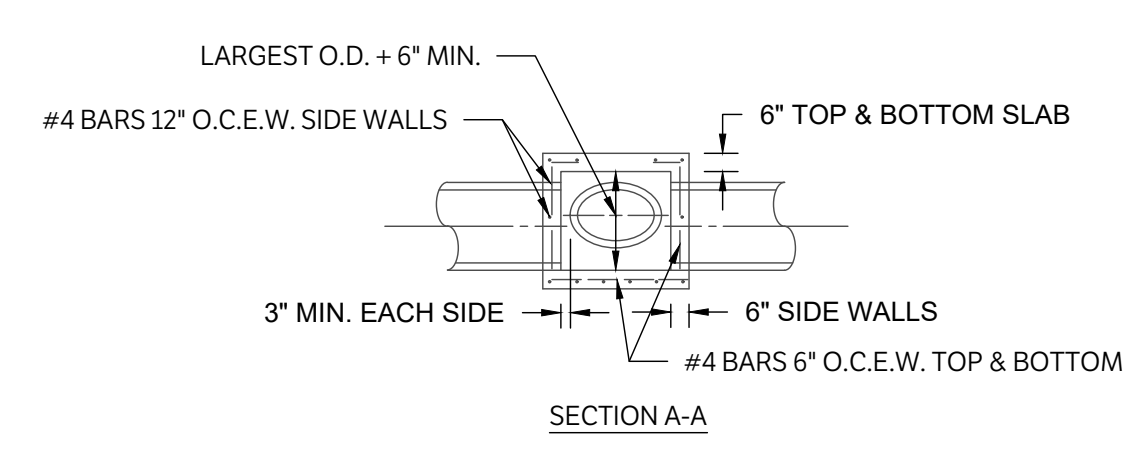
APPROVED EROSION CONTROL MEASURES MUST BE INSTALLED DURING THE ENTIRE TIME THAT EARTH HAS BEEN BARED BY CONSTRUCTION AND SHALL STAY IN PLACE UNTIL ACCEPTABLE VEGETATIVE GROWTH IS ESTABLISHED AFTER CONSTRUCTION IS COMPLETE AND THEN REMOVED BY CONTRACTOR.

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



**GRATE INLET**  
NTS

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

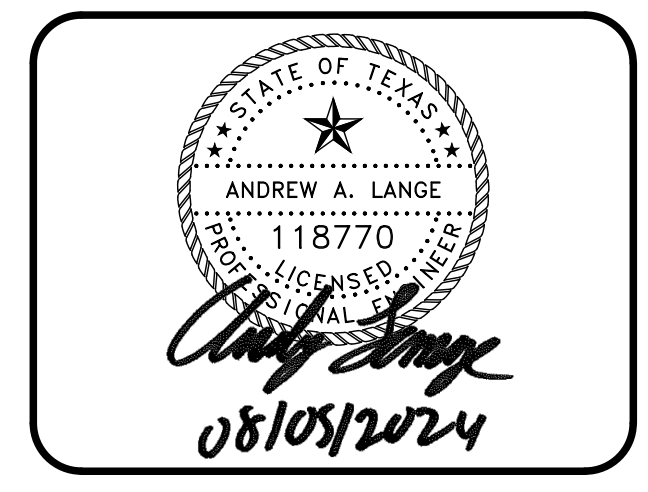
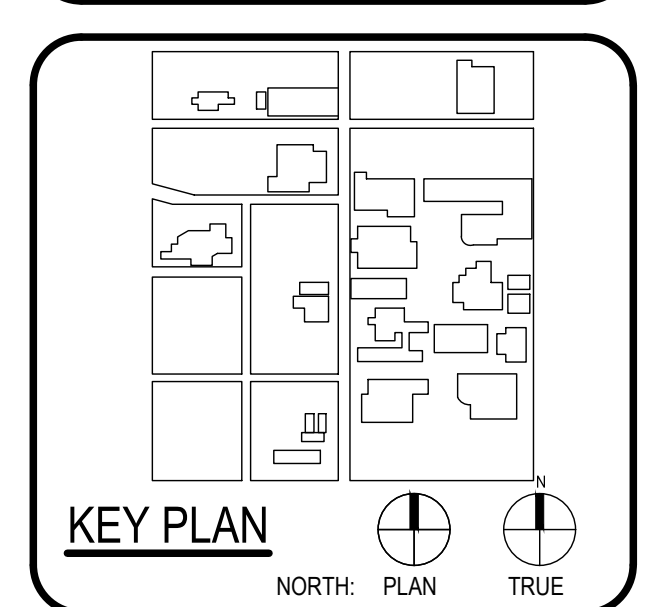
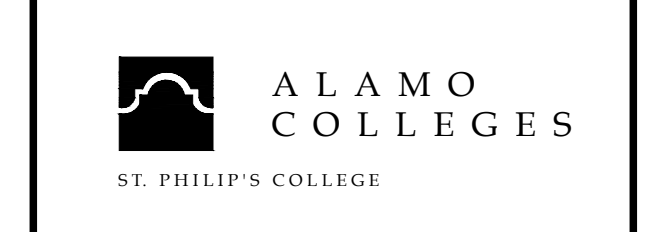


**ARCHITECT** PBK Architects, Inc.  
SAN ANTONIO  
601 N.W. Loop 410, Suite 400  
San Antonio, TX 78216  
210-820-0123 P  
210-829-0578 F  
TX Firm BR 1608

**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

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

**ISSUE FOR PERMIT**

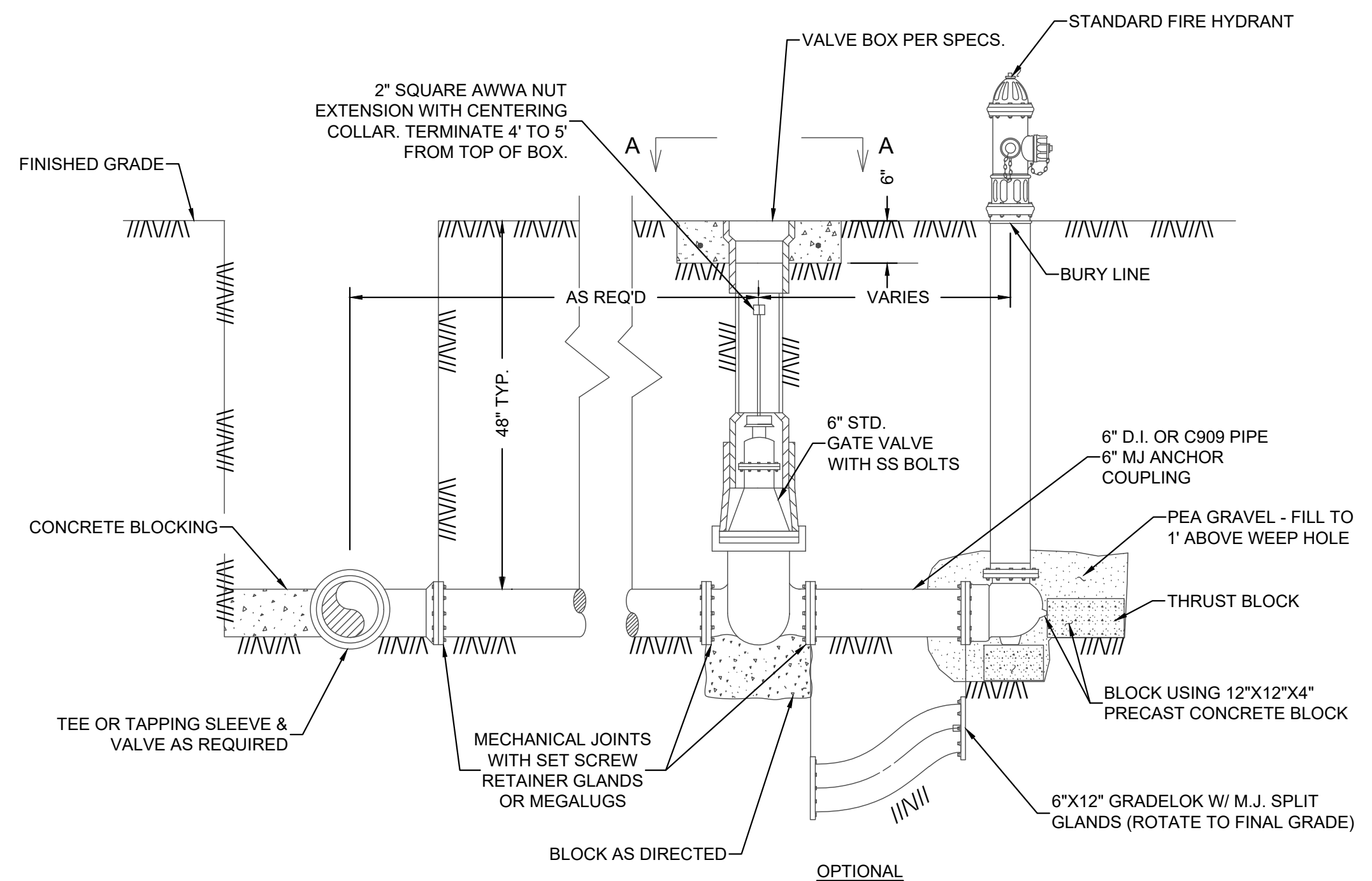
BUILDING NUMBER

**DETAILS**

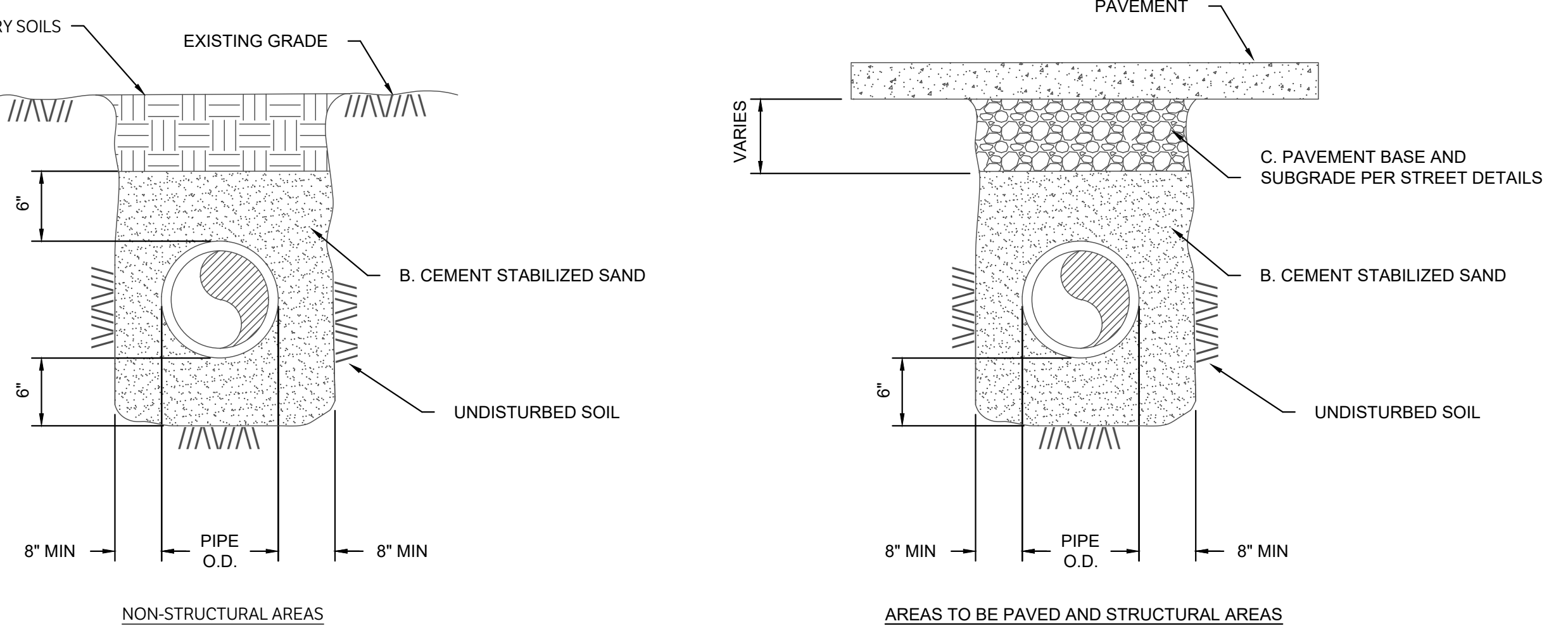
**C1200**

**GENERAL NOTES:**

- FINELY DIVIDED EARTH FREE OF ROCK, LUMPS AND CLODS EXCEEDING 6" SHALL BE PLACED BY HAND, AND COMPACTED AROUND THE CAST IRON PIPE TO A DEPTH OF 12" OVER THE TOP OF THE PIPE BEFORE BACKFILL IS BEGUN BY ANY MECHANICAL EQUIPMENT.
- ALL CONCRETE BLOCKING SHALL BE - 28 DAY CONCRETE STRENGTH = 2000psi.
- ALL THRUST BLOCKING SHALL PROVIDE A MINIMUM OF 2 SQUARE FEET OF BEARING AREA OF CONCRETE ON UNDISTURBED SOIL, OR AS DIRECTED BY THE ENGINEER.
- WATER MAINS WILL NOT BE FULLY PRESSURIZED UNTIL CONCRETE HAS REACHED 7 DAY STRENGTH.
- ALL PIPE WILL BE LAID SO AS THE ENTIRE BARRELL WILL HAVE FULL BEARING ON THE FINE GRADED TRENCH BOTTOM. BELL HOLES SHALL BE CUT FOR EACH BELL AND FIRE HYDRANT.
- ALL FITTINGS SHALL BE MECHANICAL JOINTS UNLESS OTHERWISE DIRECTED.
- HYDRANTS SHALL BE LOCATED NO CLOSER THAN 3 FEET MEASURED FROM THE BACK OF CURB TO THE FACE OF THE STEAMER ON THE FIRE HYDRANT.



**STANDARD FIRE HYDRANT ASSEMBLY**  
NTS



**BEDDING AND TRENCH FOR REINFORCED CONCRETE PIPE**  
NTS

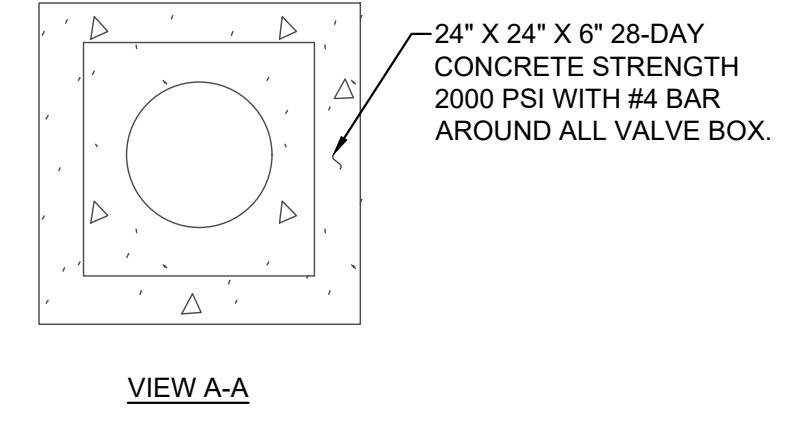
- A. SATISFACTORY SOILS**  
MATERIAL EXCAVATED FROM THE DITCH, (WHICH IS FREE OF ROCKS, LUMPS, CLODS, OR DEBRIS LARGER THAN TWO (2) INCHES IN THE LARGEST DIMENSION), COMPACTED TO A MINIMUM OF 95% OF MAXIMUM DENSITY AS DETERMINED BY ASTM D698 (STANDARD) AT A MOISTURE CONTENT WITHIN -2% TO 2% ABOVE OPTIMUM UNDER NON-STRUCTURAL AREAS (IE., YARDS, PASTURES, EASEMENTS) AND TO A MINIMUM OF 98% OF MAXIMUM DENSITY AS DETERMINED BY ASTM D698 (STANDARD) AT A MOISTURE CONTENT WITHIN -2% TO 2% ABOVE OPTIMUM UNDER PAVED AREAS.
- B. CEMENT STABILIZED SAND**  
MATERIALS SHALL BE TYPE I 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 SACKS OF CEMENT PER CUBIC YARD OF MIXTURE), COMPACT MIX TO 95% OF ASTM D558 WITH A MOISTURE CONTENT BETWEEN -2% TO 2% ABOVE OPTIMUM.
- C. 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 SODDED OR HYDROMULCHED AND WATERED UNTIL GROWTH IS ESTABLISHED. IN DEVELOPED AREAS WHERE GRASS IS PRESENT, BLOCK SOD WILL BE REQUIRED. BARED AREAS SHALL BE SEED OR SODDED WITHIN 14 CALENDAR DAYS OF LAST DISTURBANCE.

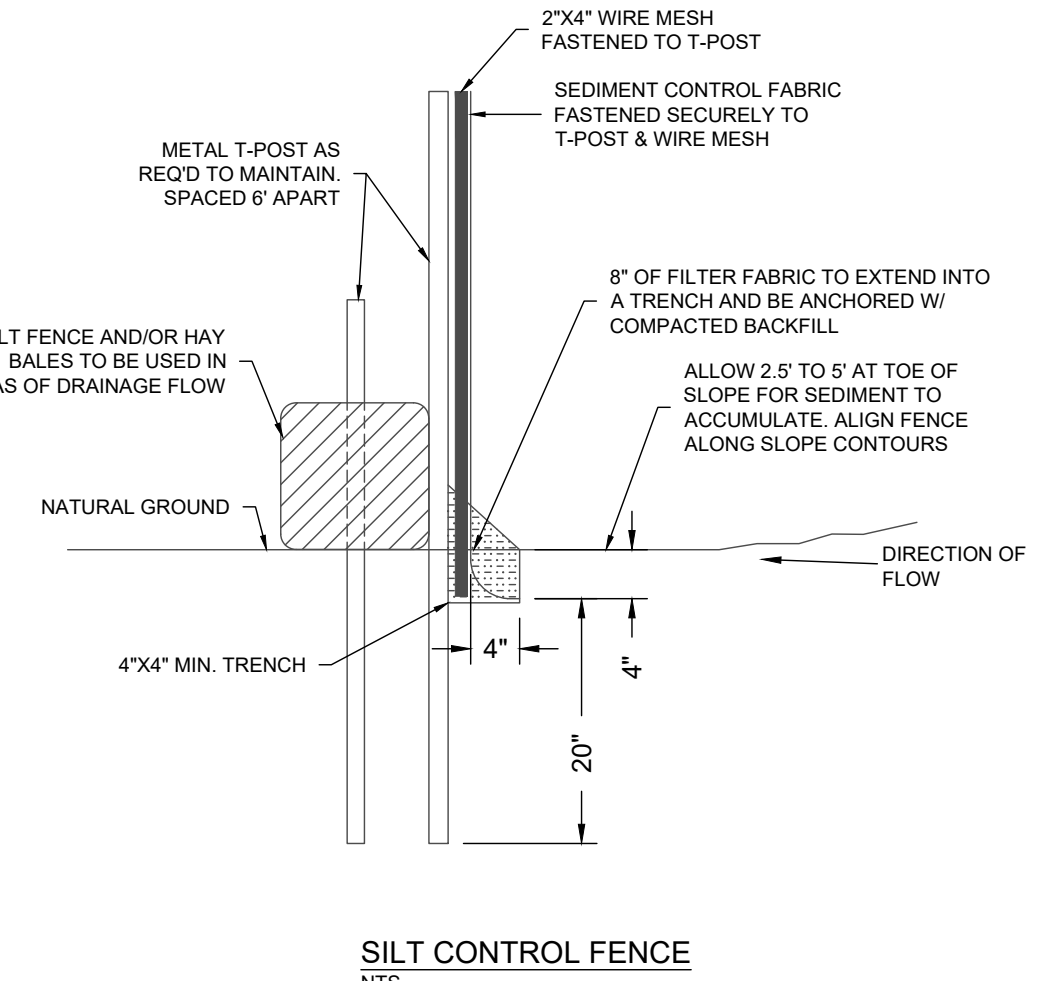
APPROVED EROSION CONTROL MEASURES MUST BE INSTALLED DURING THE ENTIRE TIME THAT EARTH HAS BEEN BARED BY CONSTRUCTION AND SHALL STAY IN PLACE UNTIL ACCEPTABLE VEGETATIVE GROWTH IS ESTABLISHED AFTER CONSTRUCTION IS COMPLETE AND THEN REMOVED BY CONTRACTOR.

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

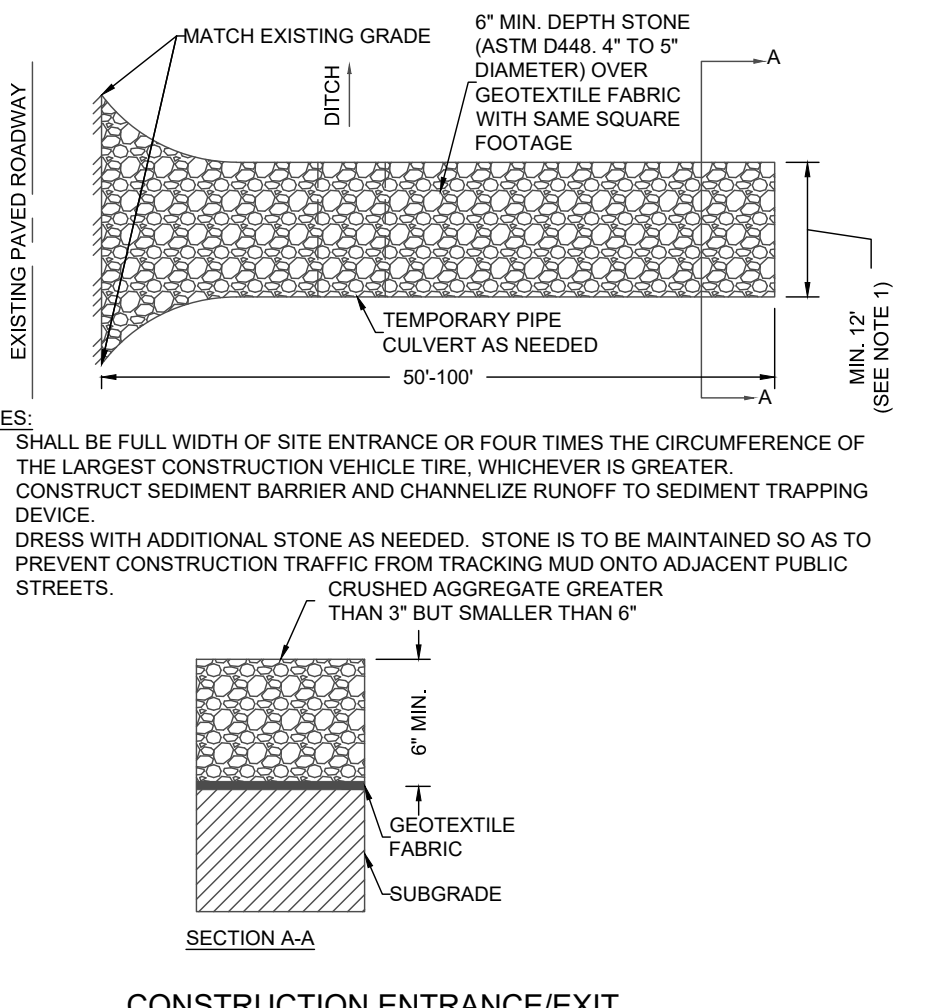
ESTABLISHMENT OF VEGETATION MAY BE A WARRANTY ITEM



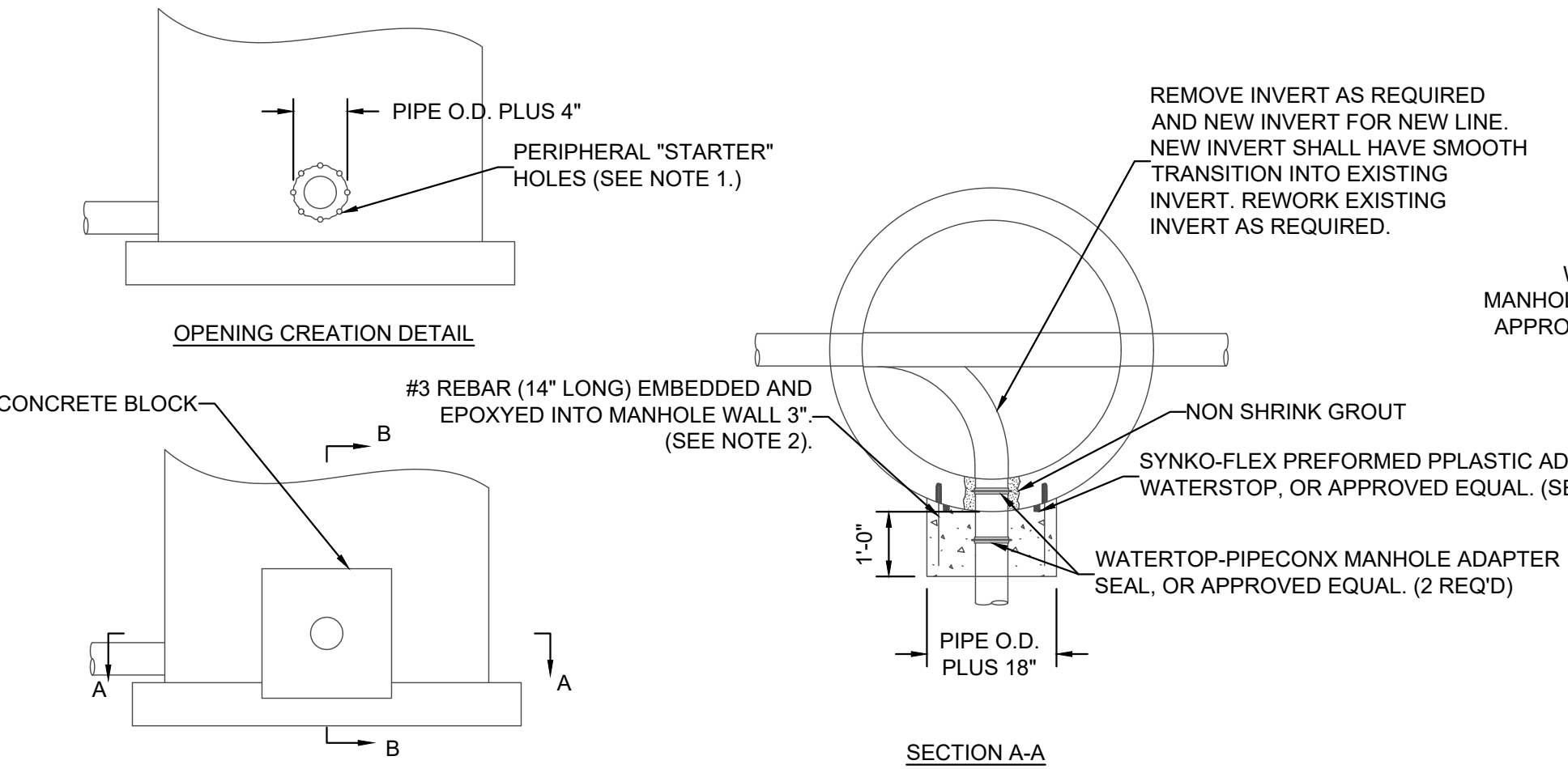
**VIEW A-A**



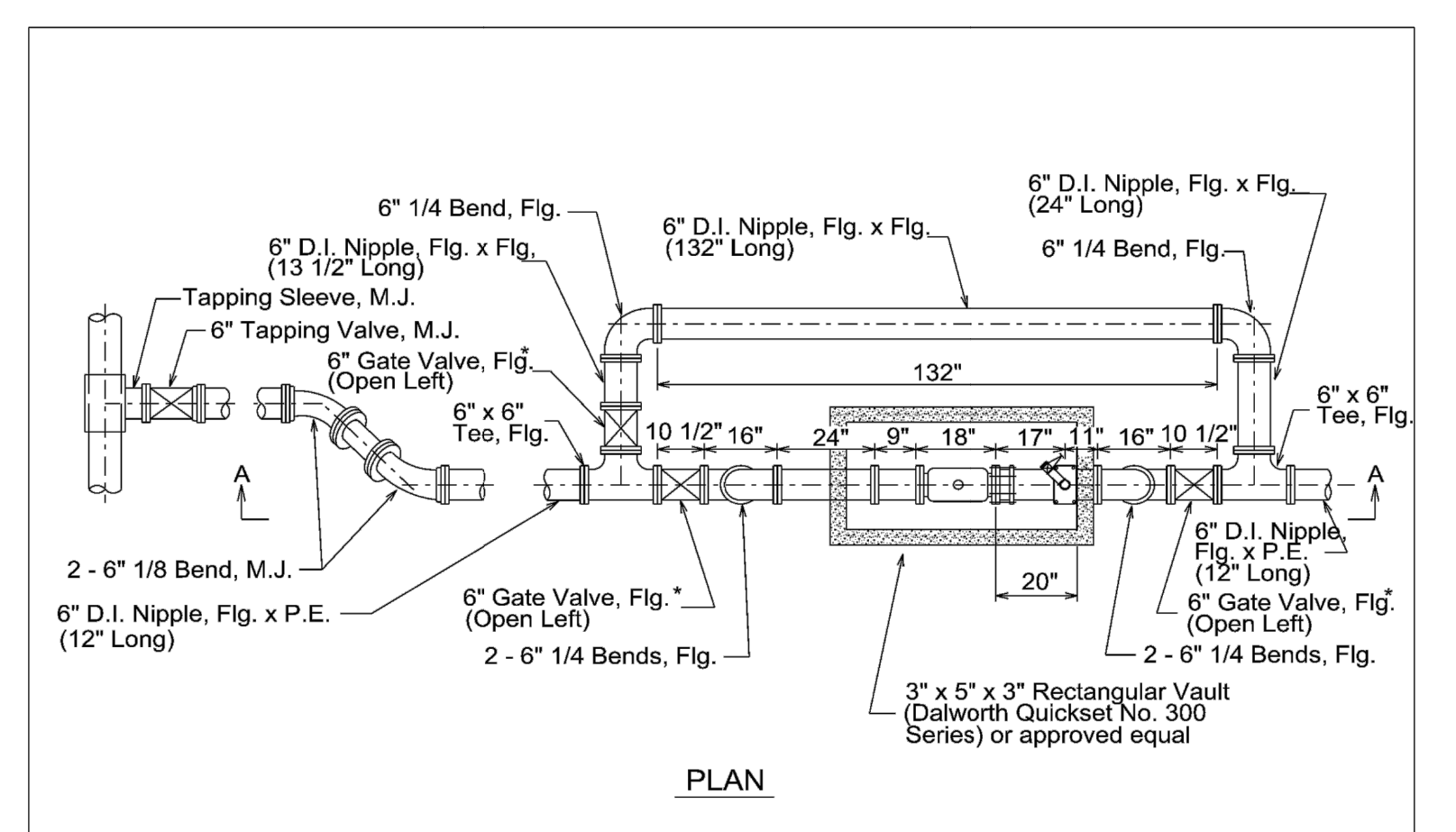
**SILT CONTROL FENCE**  
NTS



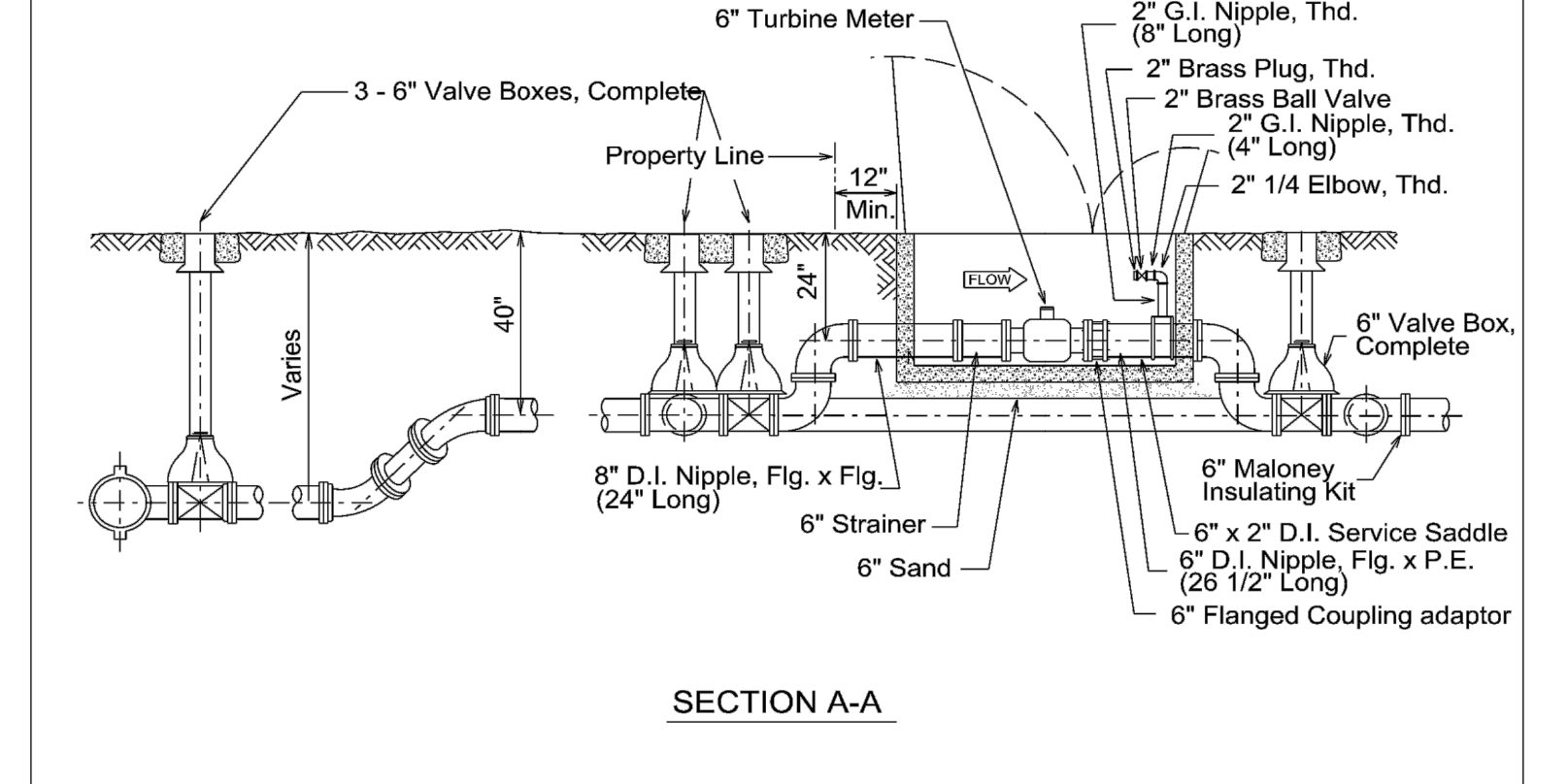
**CONSTRUCTION ENTRANCE/EXIT**  
NTS



**STANDARD MANHOLE TIE-IN**  
NTS

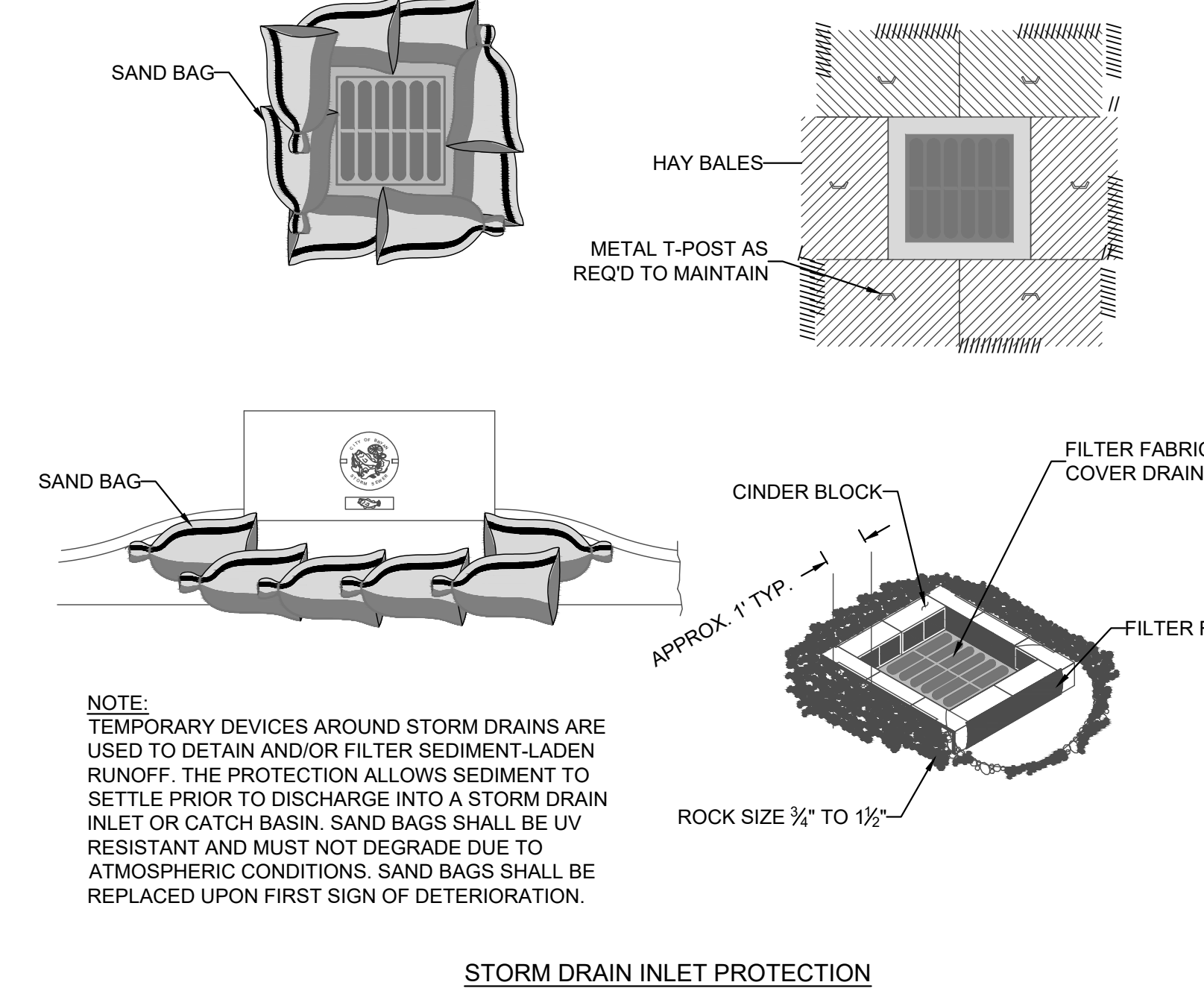


**PLAN**

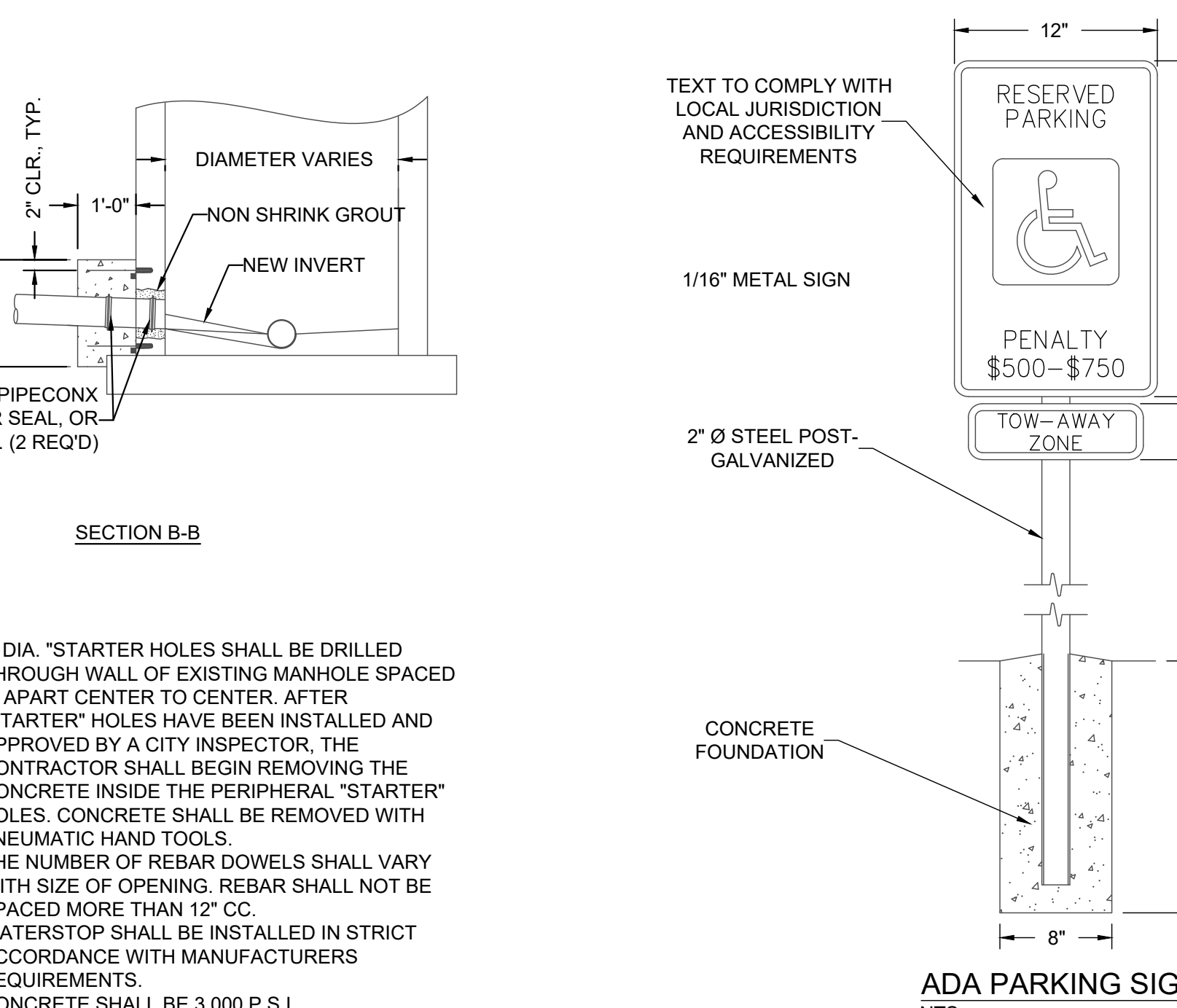


**SECTION A-A**

PROPERTY OF <b>SAN ANTONIO WATER SYSTEM</b> SAN ANTONIO, TEXAS	<b>6\" TURBINE METER INSTALLATION</b>	APPROVED March 2008	REVISED AUG 2019
		<b>DD-824-09</b>	
		SHEET <b>2 OF 2</b>	



**STORM DRAIN INLET PROTECTION**  
NTS



**ADA PARKING SIGN**  
NTS

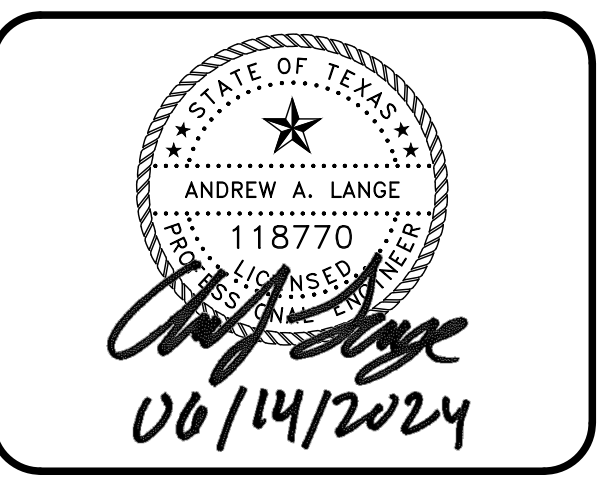
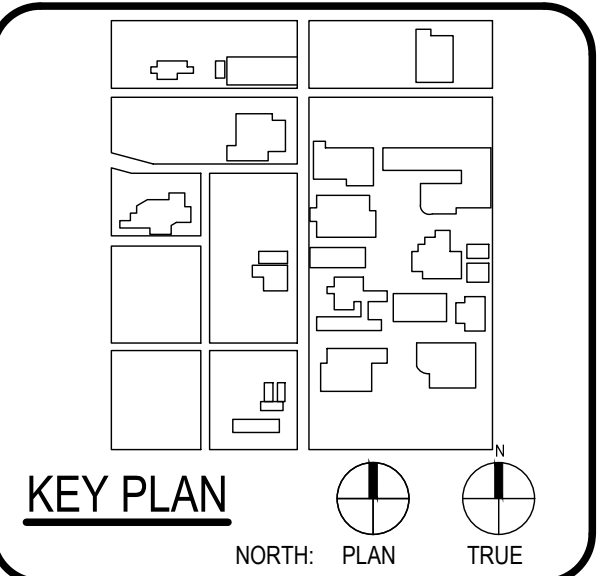
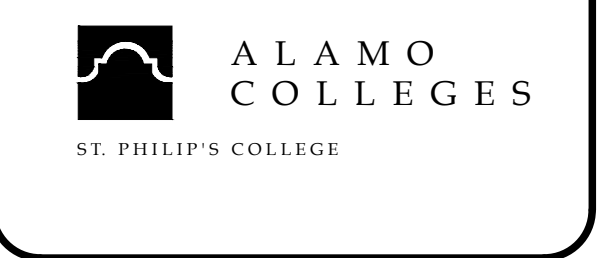
- NOTE:**
- 1" DIA. "STARTER HOLES SHALL BE DRILLED THROUGH WALL OF EXISTING MANHOLE SPACED 3" APART CENTER TO CENTER. AFTER "STARTER" HOLES HAVE BEEN INSTALLED AND APPROVED BY A CITY INSPECTOR, THE CONTRACTOR SHALL BEGIN REMOVING THE CONCRETE INSIDE THE PERIPHERAL "STARTER" HOLES. CONCRETE SHALL BE REMOVED WITH PNEUMATIC HAND TOOLS.
  - THE NUMBER OF REBAR DOWELS SHALL VARY WITH SIZE OF OPENING. REBAR SHALL NOT BE SPACED MORE THAN 12" OC.
  - WATERSTOP SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURERS REQUIREMENTS.
  - CONCRETE SHALL BE 3,000 P.S.I.

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
1701 BRUNNEN LAW OFFICE LANDSCAPE DESIGN GROUP 113340102 113340102 LUNY & HUNTER ENGINEERING 113340102 113340102 113340102 113340102 113340102 113340102	

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

**DETAILS**

### REINFORCING STEEL

**REINFORCING STEEL**

BAR NO.	SIZE	SPAC.	LENGTH	WEIGHT
A	#4	12"	10'-0"	40
B	#4	12"	10'-0"	40
C	#4	12"	10'-0"	40
D	#4	12"	10'-0"	40
E	#4	12"	10'-0"	40
F	#4	12"	10'-0"	40
G	#4	12"	10'-0"	40
H	#4	12"	10'-0"	40
I	#4	12"	10'-0"	40
J	#4	12"	10'-0"	40
K	#4	12"	10'-0"	40
L	#4	12"	10'-0"	40
M	#4	12"	10'-0"	40
N	#4	12"	10'-0"	40
O	#4	12"	10'-0"	40
P	#4	12"	10'-0"	40
Q	#4	12"	10'-0"	40
R	#4	12"	10'-0"	40
S	#4	12"	10'-0"	40
T	#4	12"	10'-0"	40
U	#4	12"	10'-0"	40
V	#4	12"	10'-0"	40
W	#4	12"	10'-0"	40
X	#4	12"	10'-0"	40
Y	#4	12"	10'-0"	40
Z	#4	12"	10'-0"	40

**GENERAL NOTES**

- REINFORCING STEEL SHALL BE AS SHOWN IN THIS DRAWING.
- ALL DIMENSIONS ARE IN INCHES AND MILLIMETERS.
- CONCRETE SHALL BE CLASS "A" CONCRETE.
- ALL REINFORCING STEEL SHALL BE EPOXY COATED.
- ALL DIMENSIONS ARE SHOWN IN INCHES AND MILLIMETERS.
- FREE OPEN AREA: 2.75 SQ. FT.
- MATERIAL: CAST GRAY IRON ASTM A-48, CLASS 35B.
- FINISH: NOT PAINTED.
- WEIGHT: 329#

**PHASE CONSTRUCTION**

- THE CURB INLET AND EXTENSION SHALL BE CONSTRUCTED IN PHASES AS SHOWN IN THIS DRAWING.
- CONCRETE SHALL BE CAST IN PHASES AS SHOWN IN THIS DRAWING.
- ALL DIMENSIONS ARE SHOWN IN INCHES AND MILLIMETERS.
- FREE OPEN AREA: 2.75 SQ. FT.
- MATERIAL: CAST GRAY IRON ASTM A-48, CLASS 35B.
- FINISH: NOT PAINTED.
- WEIGHT: 329#

**CONCRETE INLET BOX CONFIGURATIONS (LOWER UNITS)**

MAY 2009  
CITY OF SAN ANTONIO  
CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT  
TYPE "C" INLET (TYPE I & II) & INLET EXTENSION STANDARDS  
SHEET 1 OF 3

### REINFORCING STEEL (FOR Hu=11")

**REINFORCING STEEL (FOR Hu=11")**

BAR NO.	SIZE	SPAC.	LENGTH	WEIGHT
A	#4	12"	10'-0"	40
B	#4	12"	10'-0"	40
C	#4	12"	10'-0"	40
D	#4	12"	10'-0"	40
E	#4	12"	10'-0"	40
F	#4	12"	10'-0"	40
G	#4	12"	10'-0"	40
H	#4	12"	10'-0"	40
I	#4	12"	10'-0"	40
J	#4	12"	10'-0"	40
K	#4	12"	10'-0"	40
L	#4	12"	10'-0"	40
M	#4	12"	10'-0"	40
N	#4	12"	10'-0"	40
O	#4	12"	10'-0"	40
P	#4	12"	10'-0"	40
Q	#4	12"	10'-0"	40
R	#4	12"	10'-0"	40
S	#4	12"	10'-0"	40
T	#4	12"	10'-0"	40
U	#4	12"	10'-0"	40
V	#4	12"	10'-0"	40
W	#4	12"	10'-0"	40
X	#4	12"	10'-0"	40
Y	#4	12"	10'-0"	40
Z	#4	12"	10'-0"	40

**GENERAL NOTES**

- REINFORCING STEEL SHALL BE AS SHOWN IN THIS DRAWING.
- ALL DIMENSIONS ARE IN INCHES AND MILLIMETERS.
- CONCRETE SHALL BE CLASS "A" CONCRETE.
- ALL REINFORCING STEEL SHALL BE EPOXY COATED.
- ALL DIMENSIONS ARE SHOWN IN INCHES AND MILLIMETERS.
- FREE OPEN AREA: 2.75 SQ. FT.
- MATERIAL: CAST GRAY IRON ASTM A-48, CLASS 35B.
- FINISH: NOT PAINTED.
- WEIGHT: 329#

**CONCRETE INLET BOX CONFIGURATIONS (UPPER UNITS)**

MAY 2009  
CITY OF SAN ANTONIO  
CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT  
TYPE "C" INLET (TYPE I & II) & INLET EXTENSION STANDARDS  
SHEET 2 OF 3

### REINFORCING STEEL (FOR Hu=11")

**REINFORCING STEEL (FOR Hu=11")**

BAR NO.	SIZE	SPAC.	LENGTH	WEIGHT
A	#4	12"	10'-0"	40
B	#4	12"	10'-0"	40
C	#4	12"	10'-0"	40
D	#4	12"	10'-0"	40
E	#4	12"	10'-0"	40
F	#4	12"	10'-0"	40
G	#4	12"	10'-0"	40
H	#4	12"	10'-0"	40
I	#4	12"	10'-0"	40
J	#4	12"	10'-0"	40
K	#4	12"	10'-0"	40
L	#4	12"	10'-0"	40
M	#4	12"	10'-0"	40
N	#4	12"	10'-0"	40
O	#4	12"	10'-0"	40
P	#4	12"	10'-0"	40
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R	#4	12"	10'-0"	40
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U	#4	12"	10'-0"	40
V	#4	12"	10'-0"	40
W	#4	12"	10'-0"	40
X	#4	12"	10'-0"	40
Y	#4	12"	10'-0"	40
Z	#4	12"	10'-0"	40

**GENERAL NOTES**

- REINFORCING STEEL SHALL BE AS SHOWN IN THIS DRAWING.
- ALL DIMENSIONS ARE IN INCHES AND MILLIMETERS.
- CONCRETE SHALL BE CLASS "A" CONCRETE.
- ALL REINFORCING STEEL SHALL BE EPOXY COATED.
- ALL DIMENSIONS ARE SHOWN IN INCHES AND MILLIMETERS.
- FREE OPEN AREA: 2.75 SQ. FT.
- MATERIAL: CAST GRAY IRON ASTM A-48, CLASS 35B.
- FINISH: NOT PAINTED.
- WEIGHT: 329#

**CONCRETE INLET BOX CONFIGURATIONS (UPPER UNITS)**

MAY 2009  
CITY OF SAN ANTONIO  
CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT  
TYPE "C" INLET (TYPE I & II) & INLET EXTENSION STANDARDS  
SHEET 3 OF 3

### REINFORCING STEEL (FOR Hu=11")

**REINFORCING STEEL (FOR Hu=11")**

BAR NO.	SIZE	SPAC.	LENGTH	WEIGHT
A	#4	12"	10'-0"	40
B	#4	12"	10'-0"	40
C	#4	12"	10'-0"	40
D	#4	12"	10'-0"	40
E	#4	12"	10'-0"	40
F	#4	12"	10'-0"	40
G	#4	12"	10'-0"	40
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Y	#4	12"	10'-0"	40
Z	#4	12"	10'-0"	40

**GENERAL NOTES**

- REINFORCING STEEL SHALL BE AS SHOWN IN THIS DRAWING.
- ALL DIMENSIONS ARE IN INCHES AND MILLIMETERS.
- CONCRETE SHALL BE CLASS "A" CONCRETE.
- ALL REINFORCING STEEL SHALL BE EPOXY COATED.
- ALL DIMENSIONS ARE SHOWN IN INCHES AND MILLIMETERS.
- FREE OPEN AREA: 2.75 SQ. FT.
- MATERIAL: CAST GRAY IRON ASTM A-48, CLASS 35B.
- FINISH: NOT PAINTED.
- WEIGHT: 329#

**CONCRETE INLET BOX CONFIGURATIONS (UPPER UNITS)**

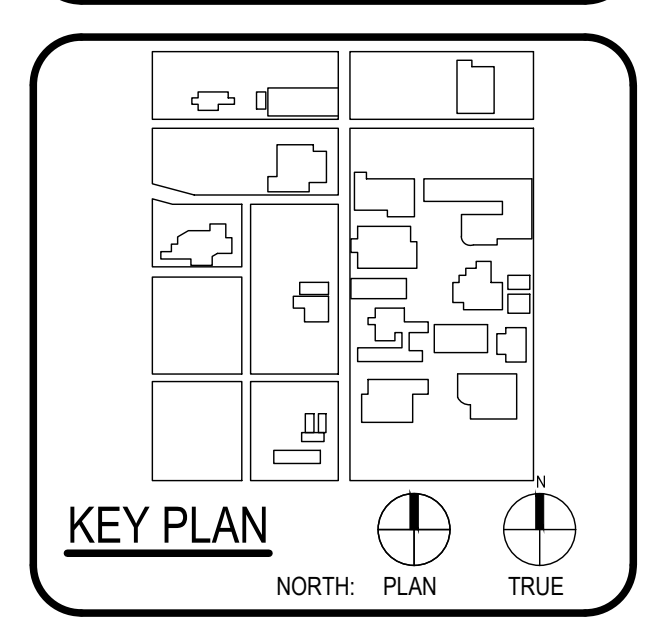
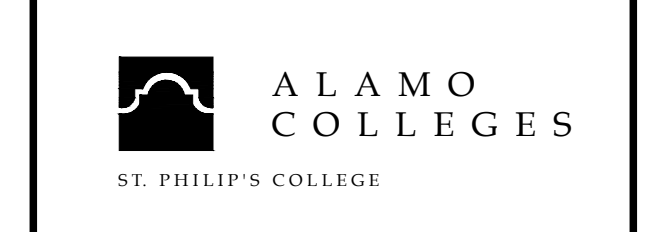
MAY 2009  
CITY OF SAN ANTONIO  
CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT  
TYPE "C" INLET (TYPE I & II) & INLET EXTENSION STANDARDS  
SHEET 3 OF 3

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



ARCHITECT: SAN ANTONIO  
601 N.W. Loop 410, Suite 400  
San Antonio, TX 78216  
210-823-0123 P  
210-823-0578 F  
TX Firm BR 1608

WFACT Black Box Addition PKG 1  
600 S Alhambra St.  
San Antonio, TX 78203  
ISSUE FOR CONSTRUCTION

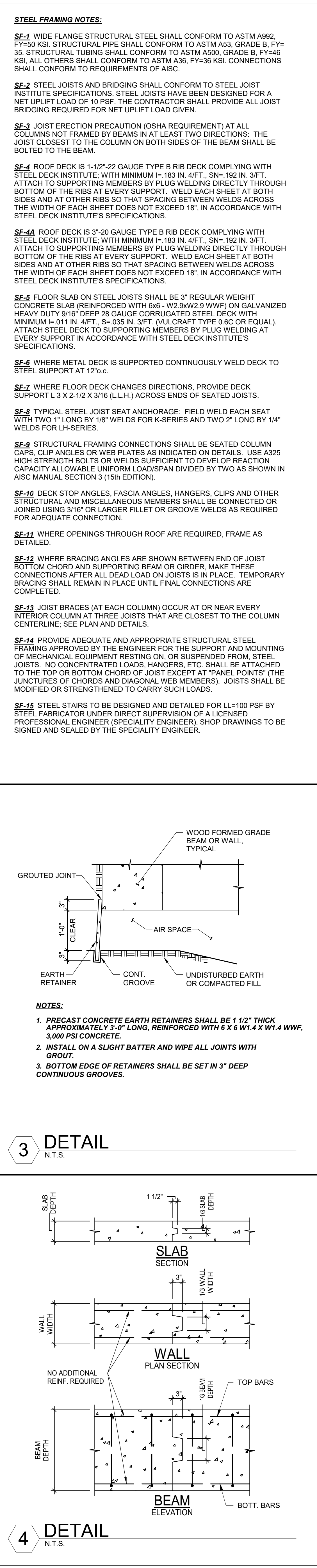
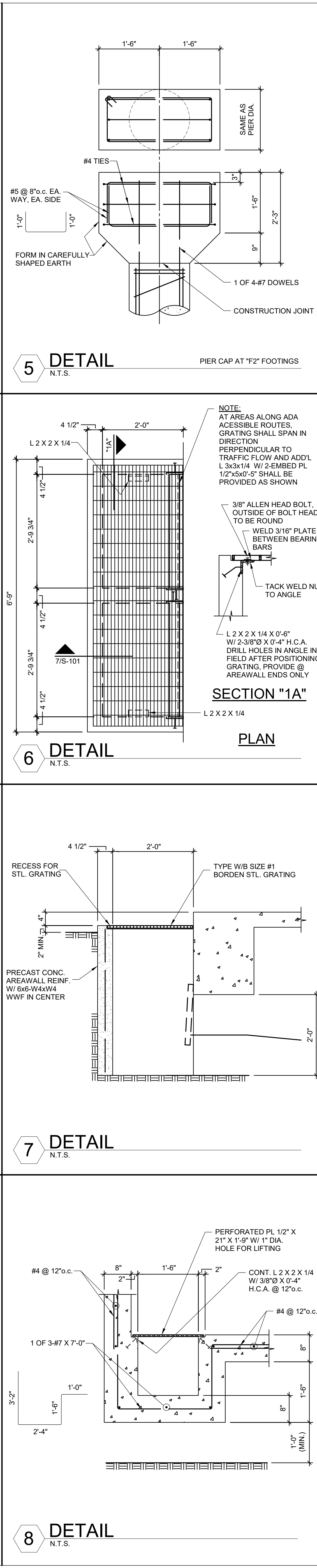
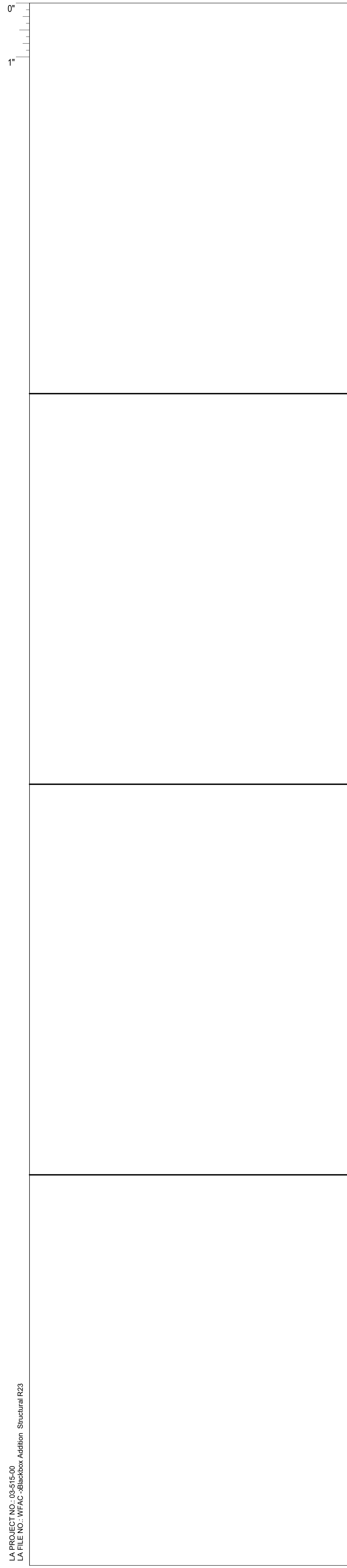


ANDREW A. LANGE  
118770  
06/14/2024

No.	Description	Date

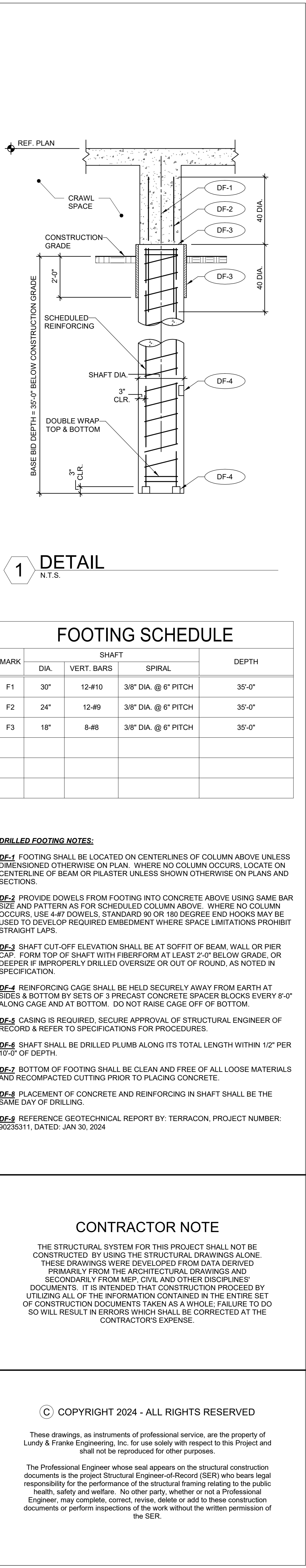
ISSUE FOR CONSTRUCTION  
BUILDING NUMBER

DETAILS  
C1202



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.

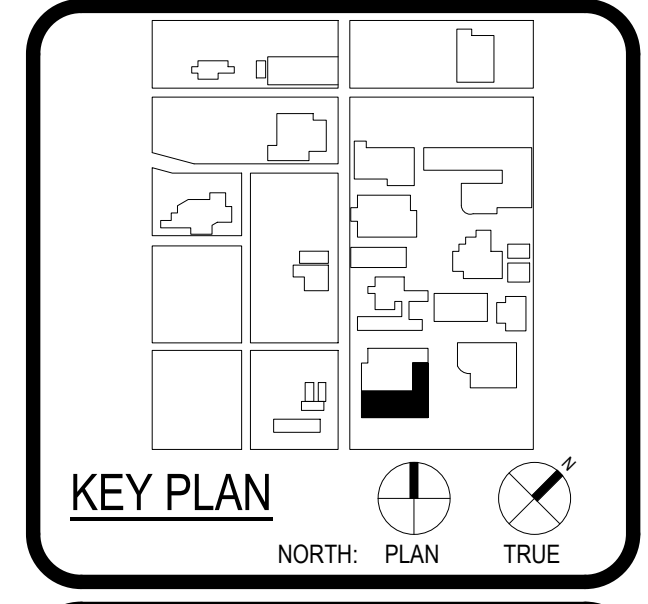


ARCHITECT SAN ANTONIO PBK Architects, Inc. 601 N.W. Loop 410, Suite 400 San Antonio, TX 78216

ENGINEERING 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

DRAWING HISTORY table with columns for No., Description, and Date.

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	-	

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	
<b>LEVEL 1 INSPECTION:</b>	ENGINEERED MASONRY IN NON-ESSENTIAL FACILITIES AND EMPERICALLY DESIGNED MASONRY IN ESSENTIAL FACILITIES.	IBC 1705.4		QUALIFICATIONS BASED ON ASTM C1093
<b>A. AS MASONRY CONSTRUCTION BEGINS, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:</b>	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>B. THE INSPECTION PROGRAM SHALL VERIFY:</b>	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.			
<b>C. PRIOR TO GROUTING, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:</b>	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.			
<b>D. GROUT PLACEMENT</b>	1. VERIFY COMPLIANCE WITH CODE AND CONSTRUCTION DOCUMENTS PROVISIONS. 2. GROUTING OF PRESTRESSING BONDED TENDONS.			
<b>E. PREPARATION OF ANY AT THE COVERED GROUT SPECIMENS, MORTAR SPECIMENS AND/OR PRISMS SHALL BE OBSERVED.</b>	1. VERIFY COMPLIANCE WITH CODE AND CONSTRUCTION DOCUMENTS PROVISIONS.			QUALIFICATIONS BASED ON C1093
<b>F. COMPLIANCE WITH REQUIRED INSPECTION PROVISIONS OF THE CONSTRUCTION DOCUMENTS AND THE APPROVED SUBMITTALS SHALL BE VERIFIED.</b>	1. VERIFY COMPLIANCE WITH CODE AND CONSTRUCTION DOCUMENTS PROVISIONS.			
<b>G. TESTING OF GROUT SPECIMENS, MORTAR SPECIMENS AND/OR PRISMS.</b>	1. TEST ONE SET OF MORTAR CUBES PER 2000 sf OR PORTION THEREOF. 2. TEST ONE SET OF GROUT CYLINDERS PER 2000 sf OR PORTION THEREOF. 3. TEST ONE PRISM PER 6000 sf OR PORTION THEREOF. (SUBMITTED PRISM WILL BE ACCEPTABLE FOR FIRST PRISM TEST).			QUALIFICATIONS BASED ON C1093
<b>LEVEL 1 INSPECTION CONT.:</b>	ENGINEERED MASONRY IN NON-ESSENTIAL FACILITIES AND EMPERICALLY DESIGNED MASONRY IN ESSENTIAL FACILITIES.	IBC 1704.5.1, IBC 1704.5.2		QUALIFICATIONS BASED ON ASTM C1093
<b>H. POST INSTALLED REINFORCING &amp; ANCHORS (EXPANSION ANCHORS, SCREW ANCHORS ADHESIVE ANCHORS, ECT.).</b>	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

6. MASONRY CONSTRUCTION CONT.				
<b>LEVEL 2 INSPECTION:</b>	ENGINEERED MASONRY IN ESSENTIAL FACILITIES.	IBC 1704.5.3		QUALIFICATIONS BASED ON C1093
<b>A. FROM THE BEGINNING OF MASONRY CONSTRUCTION, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:</b>	1. PROPORTIONS OF SITE-PREPARED MORTAR, GROUT, AND PRESTRESSING GROUT FOR BONDED TENDONS. 2. PLACEMENT OF MASONRY UNITS AND CONSTRUCTION OF MORTAR JOINTS. 3. PLACEMENT OF REINFORCEMENT, CONNECTORS, AND PRESTRESSING TENDONS AND ANCHORAGES. 4. GROUT SPACE PRIOR TO GROUTING. 5. PLACEMENT OF GROUT. 6. PLACEMENT OF PRESTRESSING GROUT.			
<b>B. THE INSPECTION PROGRAM SHALL VERIFY:</b>	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 REINFORCEMENT. 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.			
<b>C. PREPARATION OF ANY REQUIRED GROUT SPECIMENS, MORTAR SPECIMENS AND/OR PRISMS SHALL BE OBSERVED.</b>	1. VERIFY COMPLIANCE WITH CODE AND CONSTRUCTION DOCUMENTS PROVISIONS.			QUALIFICATIONS BASED ON C1093
<b>D. COMPLIANCE WITH REQUIRED INSPECTION PROVISIONS OF THE CONSTRUCTION DOCUMENTS AND THE APPROVED SUBMITTALS SHALL BE VERIFIED.</b>	1. VERIFY COMPLIANCE WITH CODE AND CONSTRUCTION DOCUMENTS PROVISIONS.			
<b>E. TESTING OF GROUT SPECIMENS, MORTAR SPECIMENS AND/OR PRISMS.</b>	1. TEST ONE SET OF MORTAR CUBES PER 2000 sf OR PORTION THEREOF. 2. TEST ONE SET OF GROUT CYLINDERS PER 2000 sf OR PORTION THEREOF. 3. TEST ONE PRISM PER 6000 sf OR PORTION THEREOF. (SUBMITTED PRISM WILL BE ACCEPTABLE FOR FIRST PRISM TEST).			QUALIFICATIONS BASED ON C1093

3. CONCRETE CONSTRUCTION CONT.				
<b>G. PLACEMENT OF CONCRETE &amp; SHOTCRETE.</b>	CONTINUOUS		ACI 318-CH. 5.9, 5.10	QUALIFICATIONS BASED ON ASTM C1077
<b>H. MAINTENANCE OF SPECIFIED CURING TEMPERATURE &amp; TECHNIQUES.</b>	PERIODIC	EACH CONCRETE POUR	ACI 318-CH. 5.11, 5.13	QUALIFICATIONS BASED ON ASTM C1077
<b>I. PRE-STRESSED CONCRETE.</b>	NA	1. APPLICATION OF PRESTRESSING FORCE 2. GROUTING OF BONDED PRESTRESSING TENDONS IN SEISMIC-FORCE RESISTING SYSTEMS.		QUALIFICATIONS BASED ON ASTM C1077
<b>J. ERECTION OF PRECAST CONCRETE MEMBERS.</b>	NA			TECHNICIAN TRAINED IN FIELD OF WORK AND HAS AT LEAST ONE YEAR OF EXPERIENCE.
<b>K. POST-TENSIONED CONCRETE.</b>	NA	1. VERIFY IN-SITU CONCRETE STRENGTH PRIOR TO STRESSING OF TENDONS.		QUALIFICATIONS BASED ON ASTM E828
	NA	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.		
	NA	3. CONTINUOUS INSPECTION IS REQUIRED DURING ALL STRESSING ACTIVITIES.		
	NA	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.		
<b>L. REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.</b>	PERIODIC	VERIFY IN-SITU CONCRETE STRENGTH PRIOR TO REMOVAL.	ACI 318-CH. 5.11, 5.13	QUALIFICATIONS BASED ON ASTM E828
<b>M. POST INSTALLED REINFORCING &amp; ANCHORS (EXPANSION ANCHORS, SCREW ANCHORS ADHESIVE ANCHORS, ECT.).</b>	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	QUALIFICATIONS BASED ON ASTM E828 & ASTM C1077 OR CERTIFIED MANUFACTURER REPRESENTATIVE

4. STEEL CONSTRUCTION				
<b>A. MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS AND WASHERS.</b>	NA	1. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	STRUCTURAL STEEL GENERAL NOTES	CW/ASSOCIATE/TECHNICAL RADIANE, AWS OR CRSI
	NA	2. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.	APPLICABLE ASTM MATERIAL SPECIFICATIONS: AISC 336, SECTION A3.4; AISC LRFD, SECTION A3.3	
<b>4. STEEL CONSTRUCTION CONT.:</b>			IBC 1704.3	
<b>B. HIGH STRENGTH BOLTING:</b>	NA	1. BEARING-TYPE CONNECTIONS.	IBC 1705.2 STRUCTURAL STEEL GENERAL NOTES	CW/ASSOCIATE/TECHNICAL RADIANE, AWS OR CRSI
	NA	2. SLIP-CRITICAL CONNECTIONS.	AWSD, SECTION A3.6; AISC LRFD, SECTION A3.5	
<b>C. MATERIAL VERIFICATION OF STRUCTURAL STEEL.</b>	NA	1. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	IBC 1705.2 STRUCTURAL STEEL GENERAL NOTES	CW/ASSOCIATE/TECHNICAL RADIANE, AWS OR CRSI
	NA	2. MANUFACTURER'S CERTIFIED MILL TEST REPORTS.	ASTM A 6 OR ASTM A 588	
<b>D. MATERIAL VERIFICATION OF WELD FILLER MATERIALS:</b>	NA	1. IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATION IN THE APPROVED CONSTRUCTION DOCUMENTS.	STRUCTURAL STEEL GENERAL NOTES	CW/ASSOCIATE/TECHNICAL RADIANE, AWS OR CRSI
	NA	2. MANUFACTURER'S CERTIFIED OF COMPLIANCE REQUIRED.	AWSD, SECTION A3.6; AISC LRFD, SECTION A3.5	
<b>E. WELDING OF STRUCTURAL STEEL:</b>	NA	1. COMPLETE & PARTIAL PENETRATION GROOVE WELDS.	IBC 1705.2.1 STRUCTURAL STEEL GENERAL NOTES	CW AND ASNT
	NA	2. MULTIPASS FILLET WELDS.	AWSD D.1	CW AND ASNT OR LICENSED ENGINEER
	NA	3. SINGLE-PASS FILLET WELDS > 5/16"		
	NA	4. SINGLE-PASS FILLET WELDS < 5/16"		
	NA	5. FLOOR AND DECK WELDS.	AWSD D.13	
<b>F. WELDING OF REINFORCING STEEL:</b>	NA	1. VERIFICATION OF WELD ABILITY OF REINFORCING STEEL OTHER THAN TIA.	IBC 1705.2.2.1 STEEL	CW/ASSOCIATE/TECHNICAL TRAINED IN FIELD OF WORK AND HAS AT LEAST ONE YEAR OF EXPERIENCE.
	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.		
	NA	3. SHEAR REINFORCEMENT.		
	NA	4. OTHER REINFORCING STEEL.		
<b>G. STEEL FRAME JOINT DETAILS: COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS:</b>	NA	1. DETAILS SUCH AS BRACING & STIFFENING.	IBC 1705.2.1 STRUCTURAL DRAWINGS	PROJECT OF COMPLEX DETAILS - ASSOCIATE CWI PROJECTS OF RELATIVELY SIMPLE DETAILS. TECHNICIAN TRAINED IN FIELD OF WORK AND HAS AT LEAST ONE YEAR OF EXPERIENCE.
	NA	2. MEMBER LOCATIONS.		
	NA	3. APPLICATION OF JOINT DETAILS AT EACH CONNECTION.		
<b>H. POST INSTALLED REINFORCING &amp; ANCHORS (EXPANSION ANCHORS, SCREW ANCHORS ADHESIVE ANCHORS, ECT.).</b>	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	QUALIFICATIONS BASED ON ASTM E828 & ASTM C1077 OR CERTIFIED MANUFACTURER REPRESENTATIVE

5. INSPECTION OF FABRICATORS FOR STRUCTURAL STEEL				
<b>FABRICATION &amp; IMPLEMENTATION PROCEDURES</b>	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. <b>EXCEPTION:</b> 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.	IBC 1705.2.1	CW/ ASNT, LICENSED ENGINEER

3. CONCRETE CONSTRUCTION				
<b>A. REINFORCING STEEL</b>	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 ACI 318, CH. 3.5, 7.1.7.7.	QUALIFICATIONS BASED ON ASTM E828
<b>B. REINFORCING STEEL WELDING</b>	-	NO FIELD WELDING PERMITTED.	AWSD D.4 ACI 318 3.5.2	CW/ OR ASSOCIATE CWI
<b>C. BOLTS TO BE INSTALLED IN CONCRETE PRIOR TO &amp; DURING PLACEMENT OF CONCRETE WHERE ALLOWABLE LOADS HAVE BEEN INCREASED.</b>	CONTINUOUS	VERIFY LOCATION, SIZE AND SPACING OF ANCHORS.	IBC 1705.3	**TECHNICIAN TRAINED IN FIELD OF WORK AND HAS AT LEAST ONE YEAR EXPERIENCE.
<b>D. ANCHORS TO BE INSTALLED IN EXISTING CONCRETE</b>	CONTINUOUS	VERIFY LOCATION, SIZE AND SPACING OF ANCHORS	IBC 1705.3	**TECHNICIAN TRAINED IN FIELD OF WORK AND HAS AT LEAST ONE YEAR EXPERIENCE.
<b>E. VERIFY USE OF CONCRETE MIX DESIGN</b>	PERIODIC	EACH CONCRETE POUR	ACI 318-CH. 4, 5.2.4	QUALIFICATIONS BASED ON ASTM C1077
<b>F. SAMPLES OF FRESH CONCRETE.</b>	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

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
<b>1. SOILS (SLAB ON GRADE)</b>				
<b>A. SUB-GRADE</b>	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
<b>2. PROFFROLLING OBSERVATIONS</b>	CONTINUOUS	PROFFROLLING SHALL BE MONITORED BY A GEOTECHNICAL ENGINEER SHALL BE APPROVE THE TYPE OF PROFFROLLING EQUIPMENT AND PROCEDURES. 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>3. MOISTURE CONDITIONING &amp; CURE</b>	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>B. CHEMICAL INJECTION</b>	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
<b>C. DURING FILL PLACEMENT</b>	PERIODIC	VISUAL OBSERVATIONS: DURING PLACEMENT AND COMPACTION 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
<b>D. EVALUATION OF IN-PLACE DENSITY OF FILL</b>	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>E. TRENCH BACKFILLING:</b>	PERIODIC	TRENCH BACKFILLING: TRENCH BACKFILLING WITH CLAY CAP AND PLACING OF CLAY PLUG SHALL BE MONITORED BY GEOTECHNICAL ENGINEER.		
<b>2A. PILE FOUNDATIONS</b>				
<b>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.</b>	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>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.</b>	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
<b>2B. PIER FOUNDATIONS</b>				
<b>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.</b>	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>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.</b>	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
<b>3. CONCRETE CONSTRUCTION</b>				
<b>A. REINFORCING STEEL</b>	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 ACI 318, CH. 3.5, 7.1.7.7.	QUALIFICATIONS BASED ON ASTM E828
<b>B. REINFORCING STEEL WELDING</b>	-	NO FIELD WELDING PERMITTED.	AWSD D.4 ACI 318 3.5.2	CW/ OR ASSOCIATE CWI
<b>C. BOLTS TO BE INSTALLED IN CONCRETE PRIOR TO &amp; DURING PLACEMENT OF CONCRETE WHERE ALLOWABLE LOADS HAVE BEEN INCREASED.</b>	CONTINUOUS	VERIFY LOCATION, SIZE AND SPACING OF ANCHORS.	IBC 1705.3	**TECHNICIAN TRAINED IN FIELD OF WORK AND HAS AT LEAST ONE YEAR EXPERIENCE.
<b>D. ANCHORS TO BE INSTALLED IN EXISTING CONCRETE</b>	CONTINUOUS	VERIFY LOCATION, SIZE AND SPACING OF ANCHORS	IBC 1705.3	**TECHNICIAN TRAINED IN FIELD OF WORK AND HAS AT LEAST ONE YEAR EXPERIENCE.
<b>E. VERIFY USE OF CONCRETE MIX DESIGN</b>	PERIODIC	EACH CONCRETE POUR	ACI 318-CH. 4, 5.2.4	QUALIFICATIONS BASED ON ASTM C1077
<b>F. SAMPLES OF FRESH CONCRETE.</b>	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

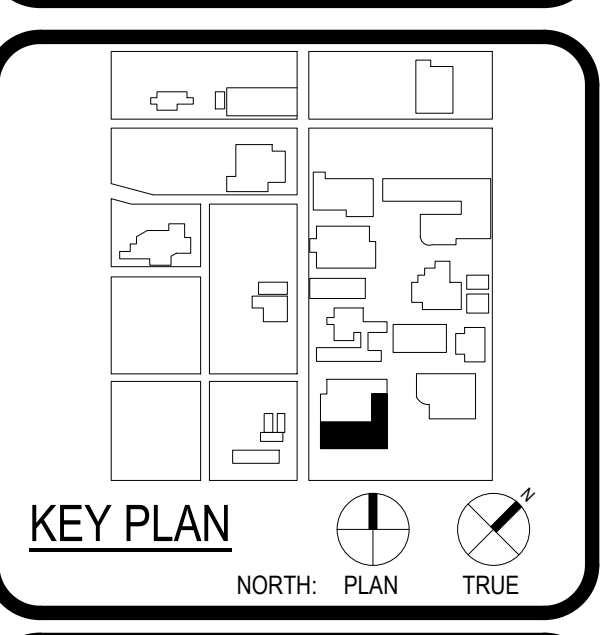


**ARCHITECT** PBK Architects, Inc.  
SAN ANTONIO  
601 N.W. Loop 410, Suite 400  
San Antonio, TX 78216  
210-829-0123 P  
210-829-0578 F  
TX Firm BR 1608



**ENGINEERING**  
580 HEINER ROAD PH 018 979-7900  
SAN ANTONIO, TEXAS 78232 FX 018 979-7800  
TX FIRM REG. #3388

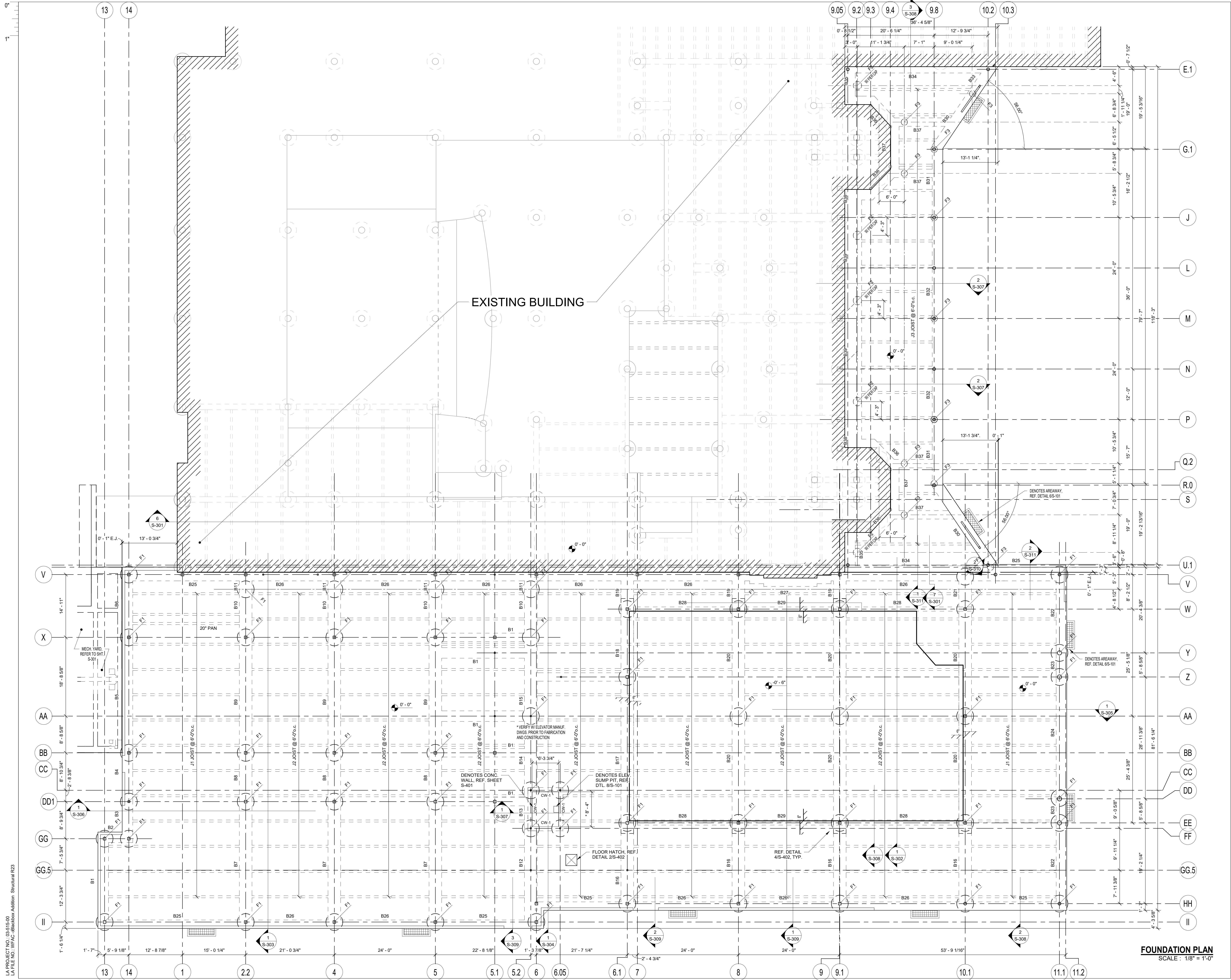
**1801 Marlin Luther King Dr.,**  
San Antonio, TX 78203  
ISSUE FOR CONSTRUCTION



CLIENT		
Alamo Colleges	PROJECT NUMBER	230462
DATE	2024/05/23	
DRAWING HISTORY		
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. 03515-00  
LA FILE NO. WFAC-Blackbox Addition, Structural R23



ARCHITECT SAN ANTONIO PBK Architects, Inc.  
601 N.W. Loop 410, Suite 400  
San Antonio, TX 78216  
210-820-0123 P  
210-823-9578 F  
TX Firm BR 1606

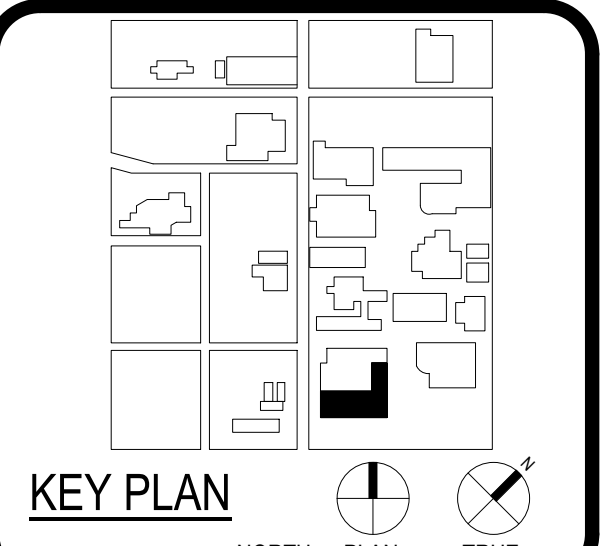
ASSOCIATE ARCHITECT  
MAX ARCHITECTS  
1325 W. Loop West  
San Antonio, TX 78204  
713-552-1111  
LANDSCAPE  
KYLE AND DESIGN  
1711 W. Loop West  
San Antonio, TX 78204  
713-552-1111  
STRUCTURAL  
LUNDY & FRANKE ENGINEERING  
1711 W. Loop West  
San Antonio, TX 78204  
713-552-1111  
MECHANICAL  
MEYER PROFESSIONALS  
1711 W. Loop West  
San Antonio, TX 78204  
713-552-1111



540 HEIMER ROAD PH 018 979-7900  
SAN ANTONIO, TEXAS 78232 FX 018 979-7800  
TX FIRM REG. #3888

WFAC Black Box Addition PKG 1

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

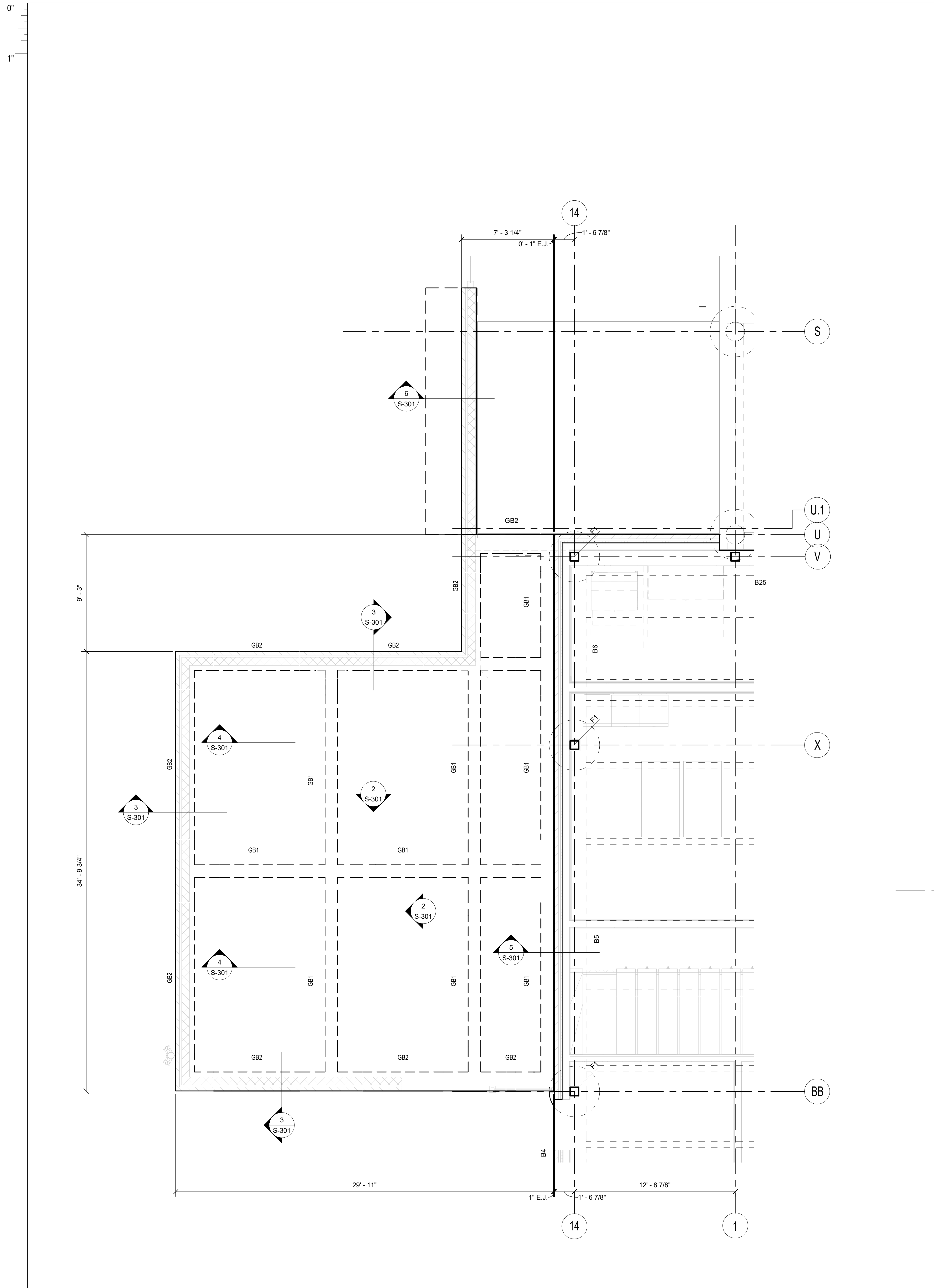


No.	Description	Date
2	City Comments	06/12/24

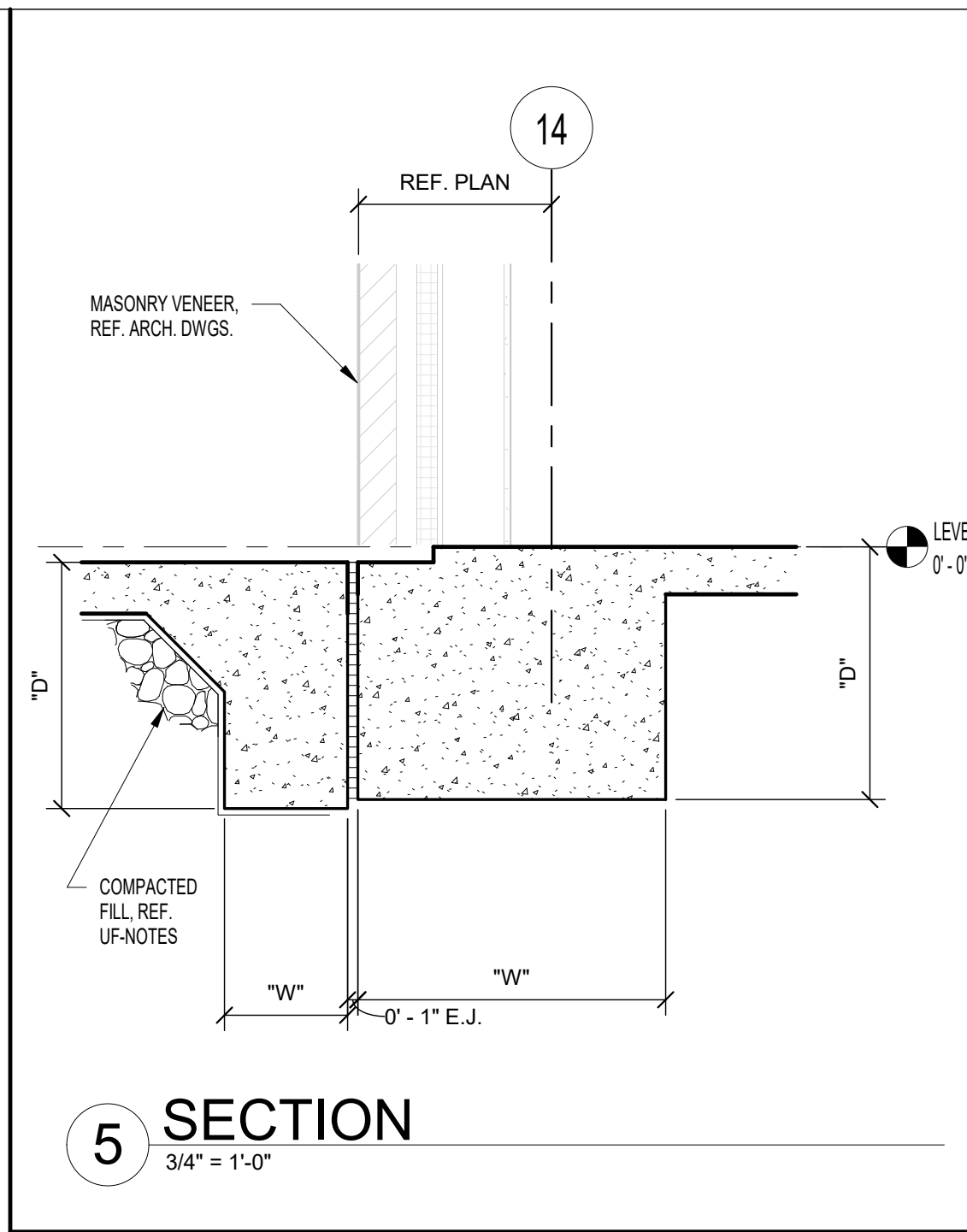
ISSUE FOR CONSTRUCTION  
BUILDING NUMBER AB

**FOUNDATION FRAMING PLAN**

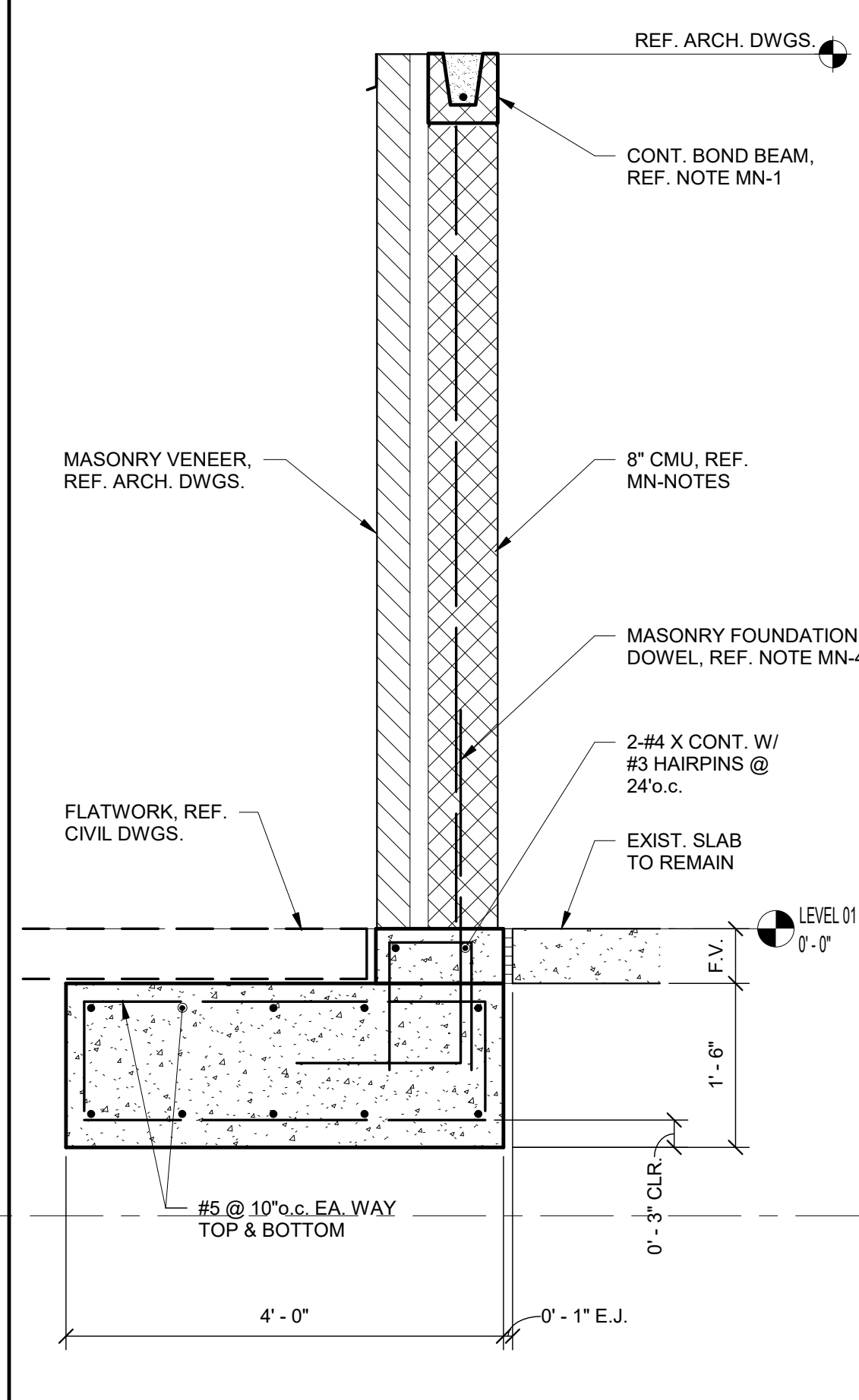
**S-201**



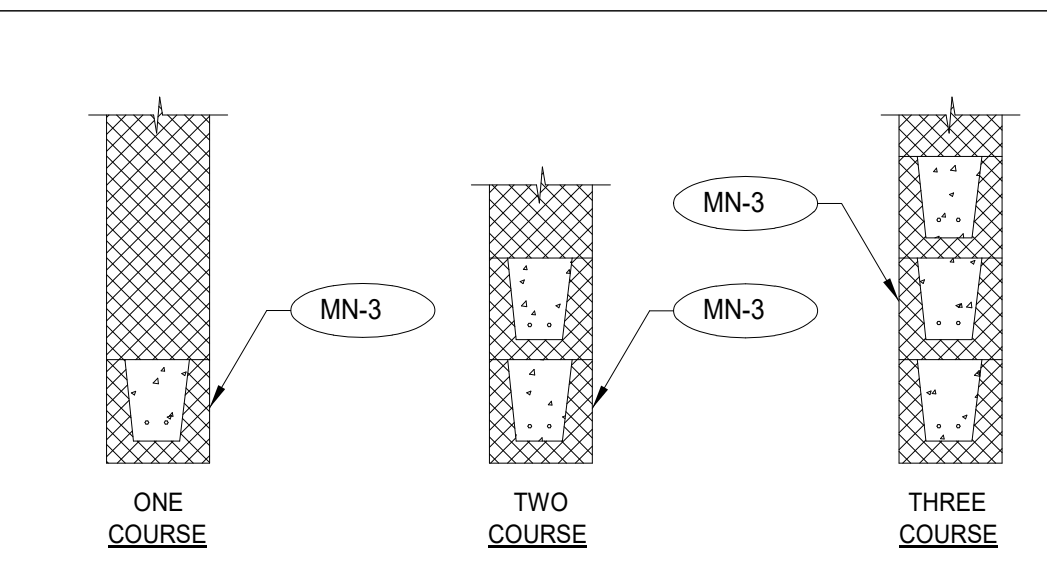
**MECHANICAL YARD FOUNDATION PLAN**  
SCALE: 1/4" = 1'-0"



**5 SECTION**  
3/4" = 1'-0"



**6 SECTION**  
3/4" = 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).

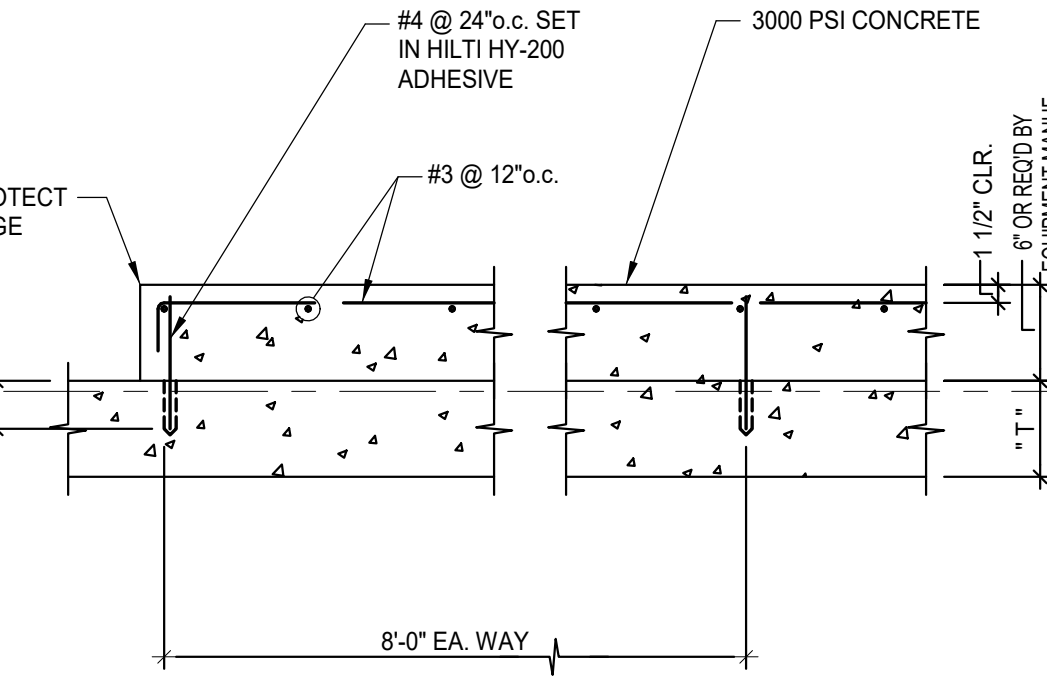
**MN-3** PROVIDE GROUDED REINFORCED LINTELS WITH 8" BEARING EACH END OF ALL DOORS, WINDOWS, AND OTHER OPENINGS. USE ONE-COURSE LINTELS FOR OPENINGS UP TO 4'-0"; TWO-COURSE LINTELS FOR OPENINGS UP TO 6'-6"; THREE-COURSE LINTELS FOR OPENINGS UP TO 14'-0". REINFORCE EACH COURSE WITH 2-#5 BAR CONTINUOUS.

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

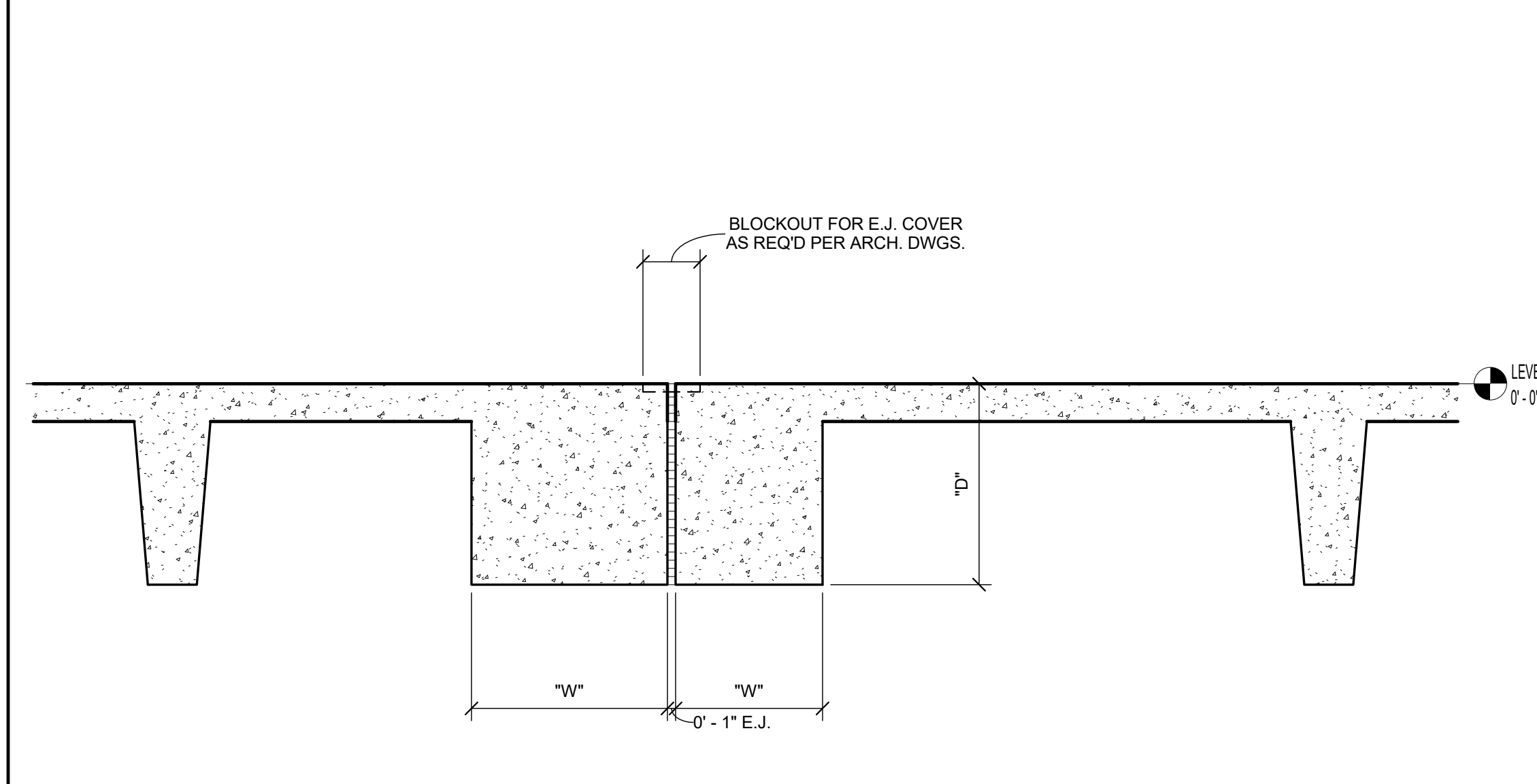
**MN-5** CMU SHALL HAVE A UNIT STRENGTH OF 1,900 PSI. USE TYPE S MORTAR. REINFORCED CMU SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 7,000 PSI. GROUT FOR FILLED CELLS SHALL BE MADE OF CEMENT, SAND AND PEA GRAVEL IN APPROXIMATE RATIO OF 1:3:2 AND SHALL HAVE 28-DAY COMPRESSIVE STRENGTH OF 2,500 PSI.

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

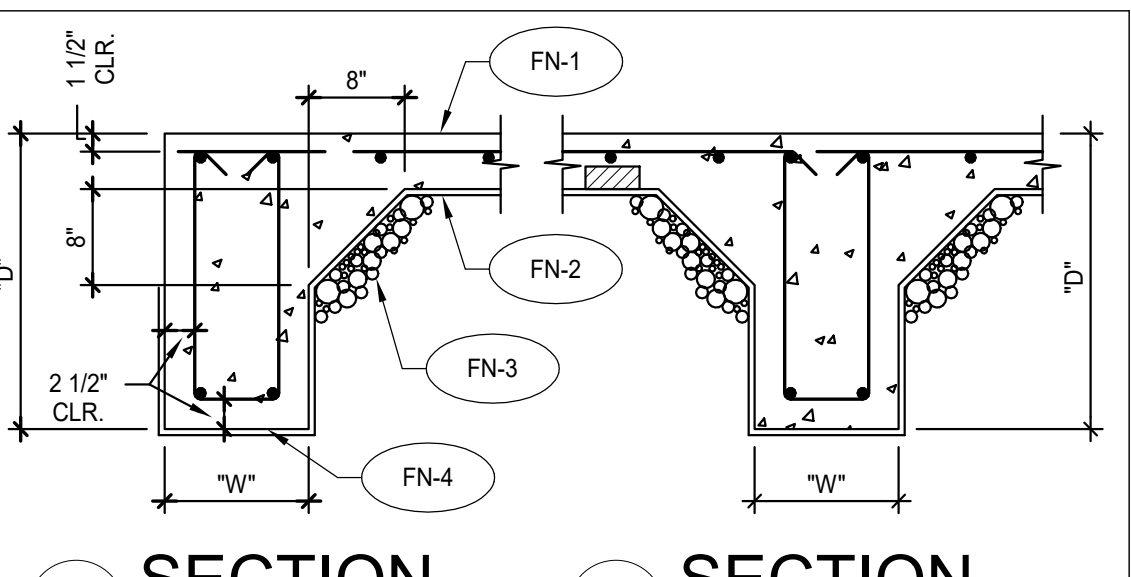
**MN-7** LEVEL 1 INSPECTED MASONRY REQUIRES CONTRACTOR TO SUBMIT, AT CONTRACTOR'S COST, COMPRESSIVE WALL DESIGN STRENGTH (Fm) VERIFIED BY INDEPENDENT TESTING LAB BY PRISM TESTS BEFORE MASONRY CONSTRUCTION BEGINS. PROVIDE UNIT MASONRY STRENGTH, GROUT MIX DESIGN AND MORTAR MIX DESIGN.



**4 DETAIL**  
N.T.S.



**7 SECTION**  
3/4" = 1'-0"



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 6 PHASSES OF THE ROLLER IS REQUIRED. ANY SOFT SPOTS SHALL BE REMOVED AND REPLACED WITH COMPACTED SELECT FILL.

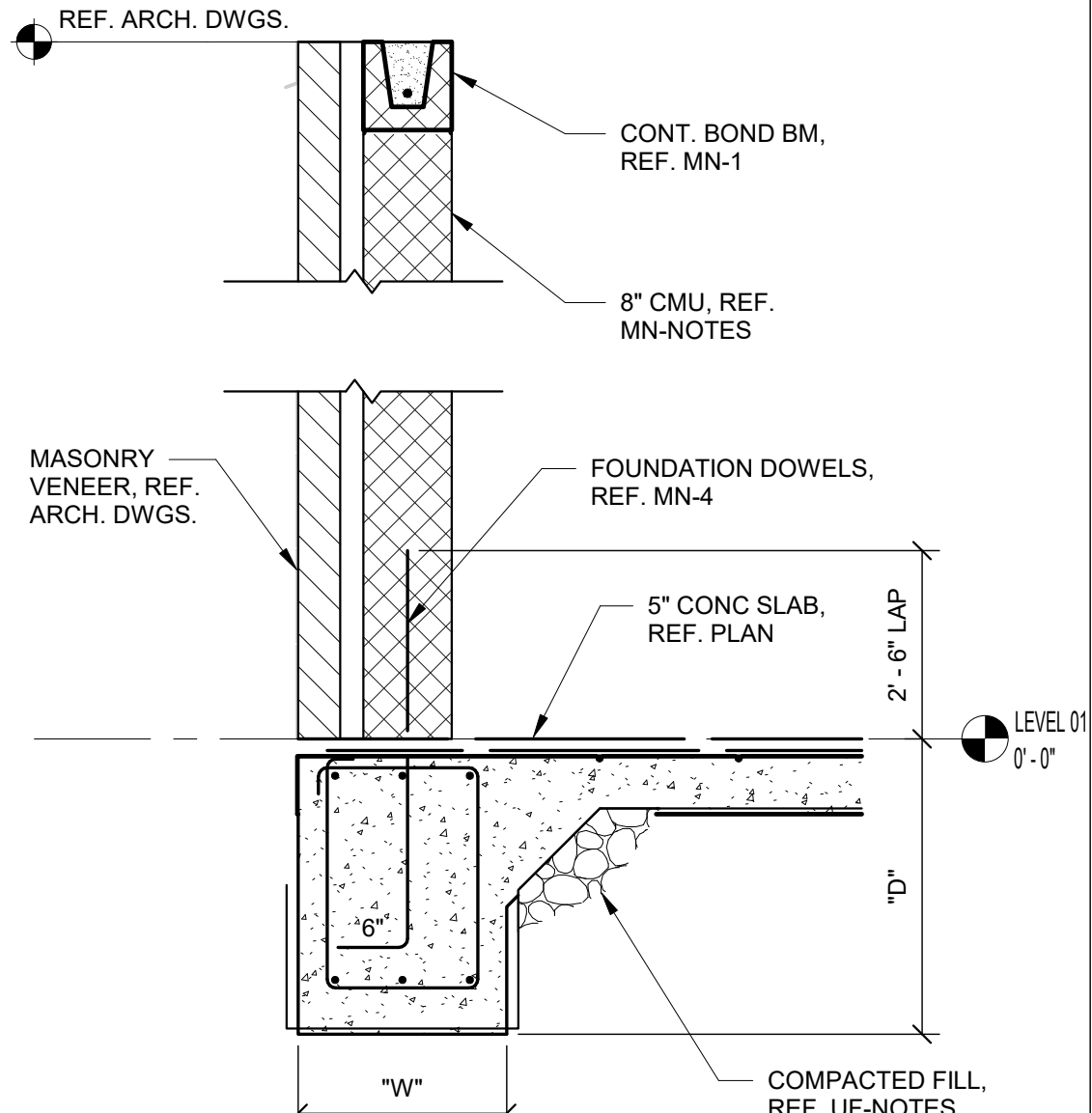
**UF-5** THE ROLLED SUBGRADE SHALL BE SCARIFIED JUST PRIOR TO FILL PLACEMENT TO A MINIMUM DEPTH OF 6" AND RECOMPACTED TO MINIMUM OF 95% OF THE MAXIMUM DENSITY DETERMINED BY ASTM D698 COMPACTION TEST, MAINTAINING MOISTURE CONTENT BETWEEN -1 AND +3 PERCENTAGE POINTS UNTIL COVERED.

**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 ?.



**3 DETAIL**  
N.T.S.

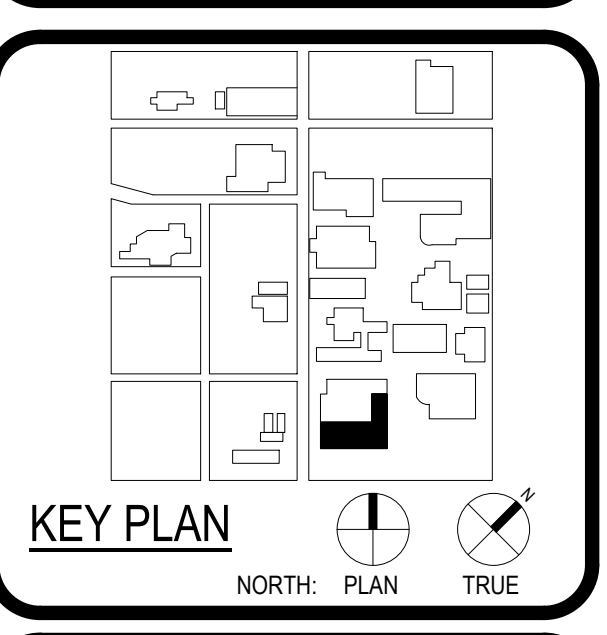


ARCHITECT PBK Architects, Inc.  
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210-820-0123 P  
210-823-5578 F  
TX Firm BR 1608



ENGINEERING  
580 HEIMER ROAD PH 018 979-7900  
SAN ANTONIO, TEXAS 78232 FX 010 979-7800  
TX FIRM REG. #388

WFAC Black Box Addition PKG 1



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

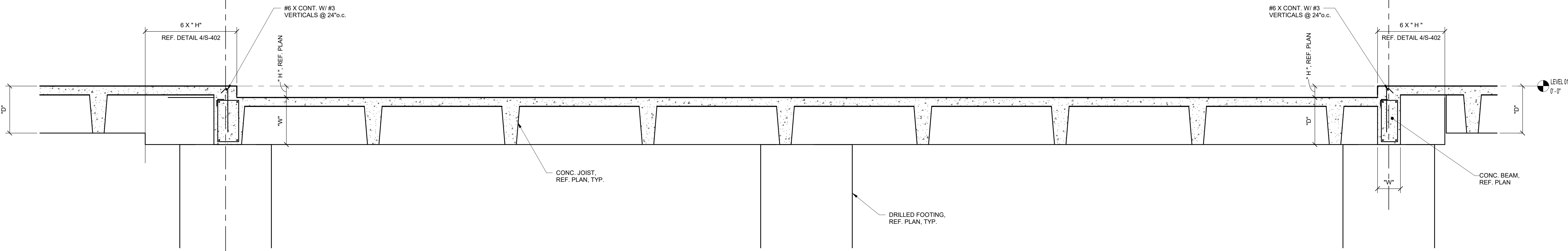
ISSUE FOR CONSTRUCTION  
BUILDING NUMBER AB

**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

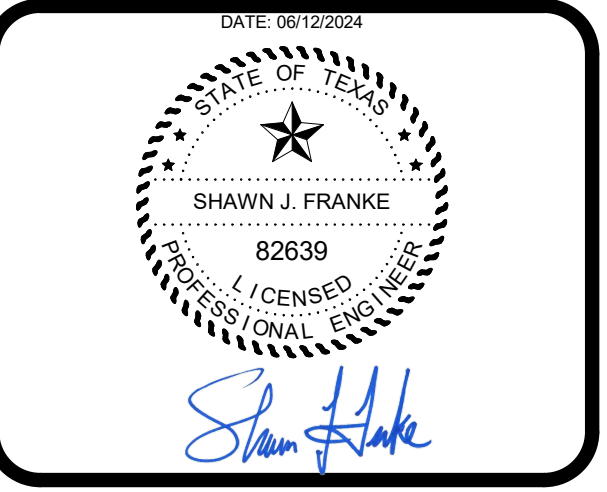
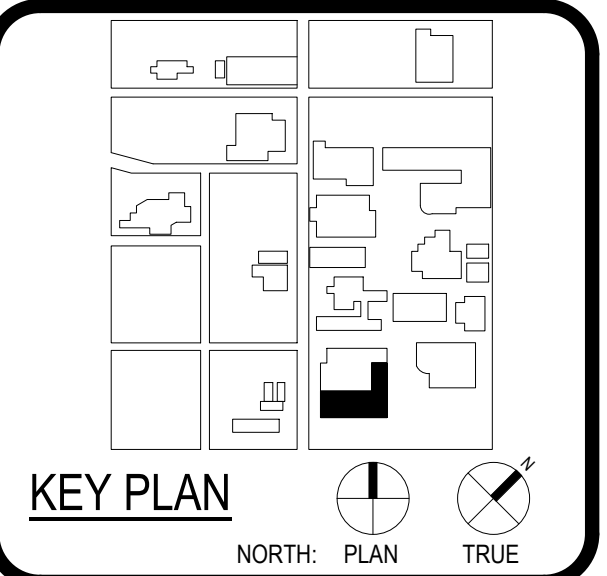


ARCHITECT	PBK Architects, Inc. 601 N.W. Loop 410, Suite 400 San Antonio, TX 78216 210-829-0123 P 210-829-5578 F TX Firm BR 1606
ASSOCIATE ARCHITECT	BA ARCHITECTS 1100 W. Loop West San Antonio, TX 78204
CONSULTANT	LANDSCAPE ROSE AND DESIGN 1111 W. Loop West San Antonio, TX 78204
STRUCTURAL	LUNDY & FRANKE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



WFAC Black Box Addition PKG 1

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

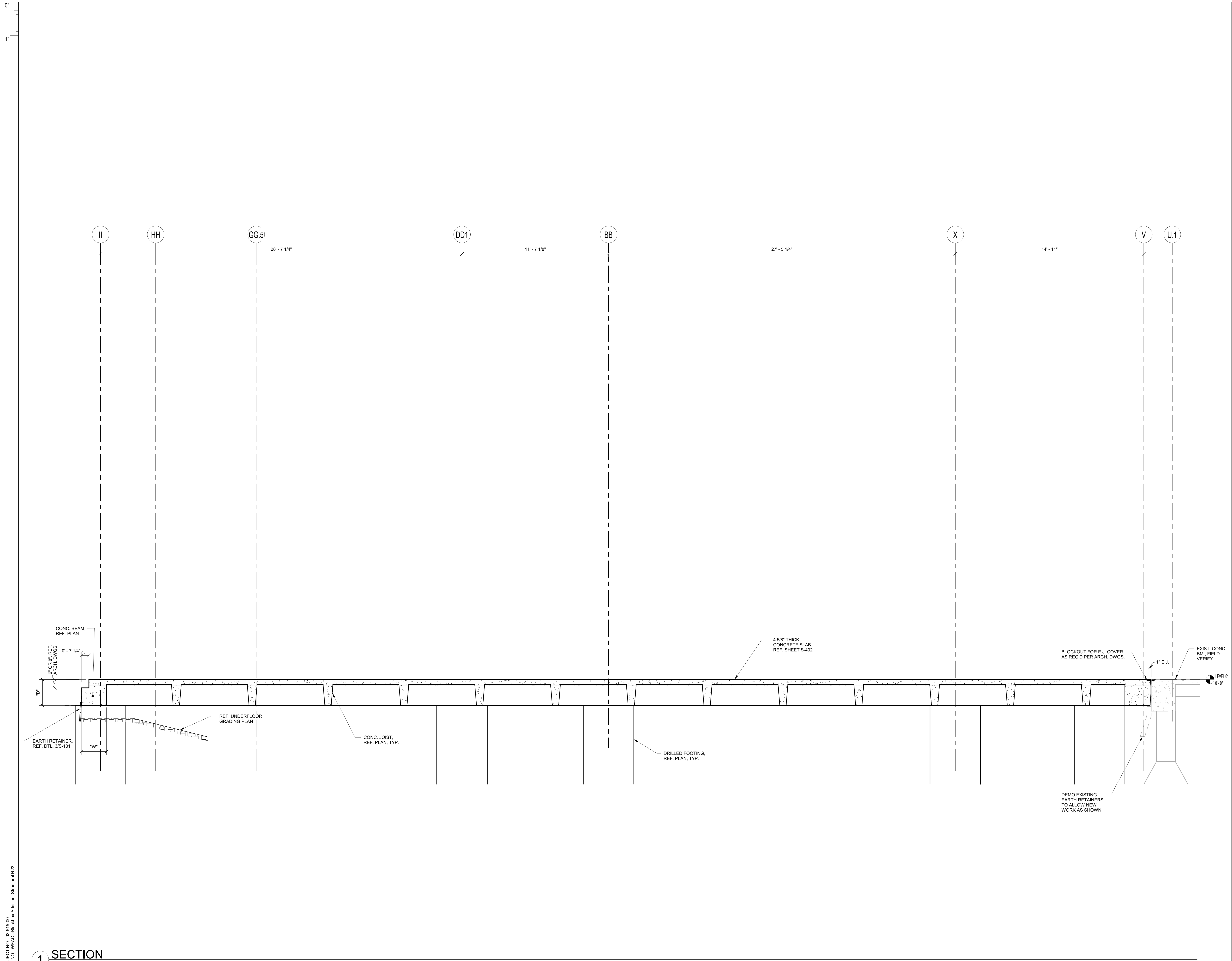


CLIENT		Alamo Colleges
DATE	PROJECT NUMBER	230462
2024/05/23		
DRAWING HISTORY		
No.	Description	Date
ISSUE FOR CONSTRUCTION		
BUILDING NUMBER	AB	

**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



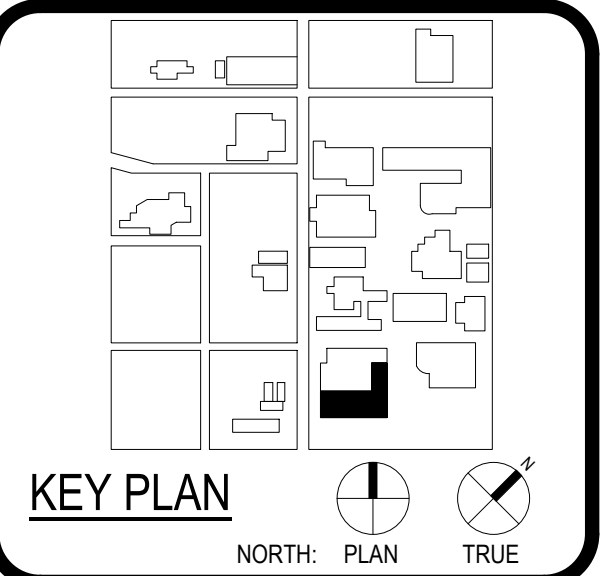
ARCHITECT	PBK Architects, Inc.
SAN ANTONIO 601 N.W. Loop 410, Suite 400 San Antonio, TX 78216 210-820-0123 P 210-829-5578 F TX Firm BR 1606	
ASSOCIATE ARCHITECT	BA & ARCHITECTS
DATE	02/20/24
DESIGNER	T.J. BOGUE
LANDSCAPE	
ROSE AND DESIGN	
STRUCTURAL	LUNDY & FRANKE ENGINEERING
MEP	
PROVISIONS	
BEAM PROFESSIONALS	
MEASUREMENT	
	T.J. BOGUE

**LUNDY & FRANKE ENGINEERING**  
548 HEIMER ROAD  
SAN ANTONIO, TEXAS 78232  
TX FIRM REG. #3388

PH: (210) 979-7900  
FX: (210) 979-7800

WFAC Black Box Addition PKG 1

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



DATE: 06/12/2024

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**

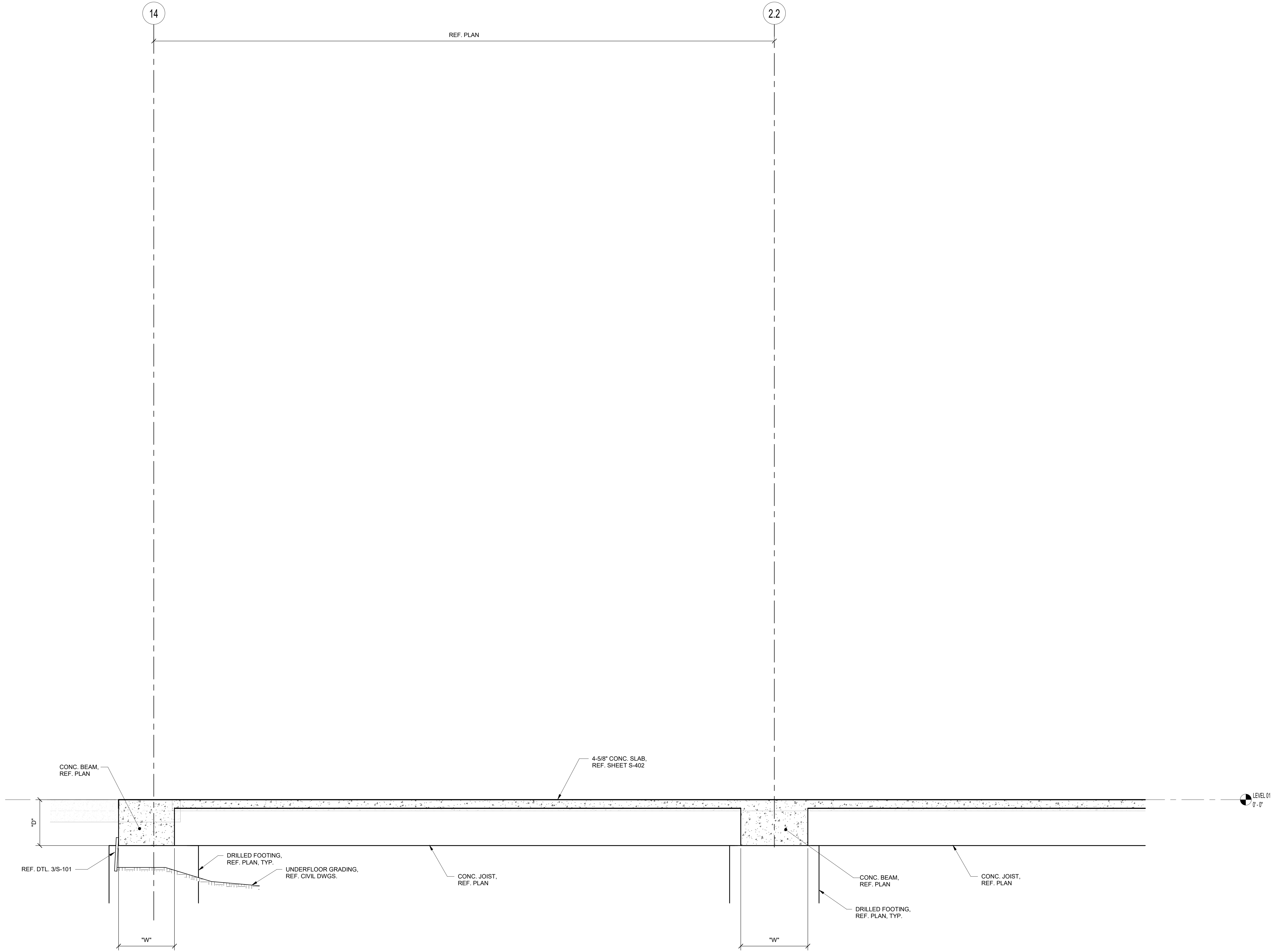
**S-303**





# ISSUE FOR CONSTRUCTION

0'  
1'



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

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

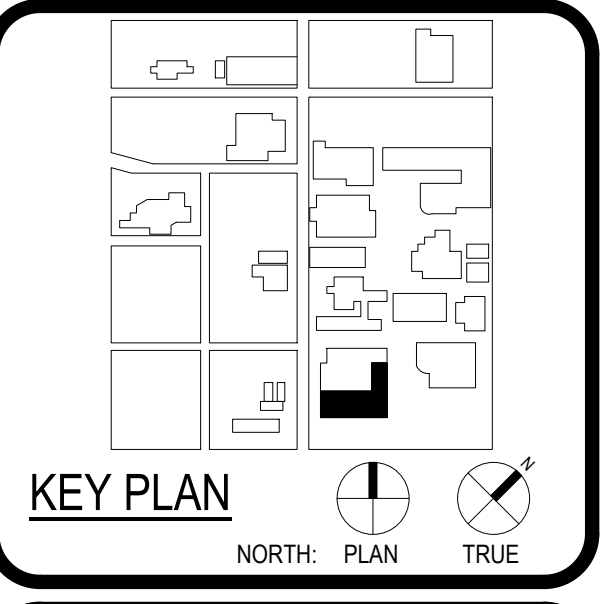


ARCHITECT	PBK Architects, Inc.
SAN ANTONIO 601 N.W. Loop 410, Suite 400 San Antonio, TX 78216 210-829-0123 P 210-829-5578 F TX Firm BR 1606	
ASSOCIATE ARCHITECT	BA ARCHITECTS
OWNER	ALAMO COLLEGES
DESIGNER	TRU
LANDSCAPE	TRU
ROSE AND DESIGN	TRU
STRUCTURAL	LUNDY & FRANKE ENGINEERING
MECHANICAL	TRU
ELECTRICAL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



WFAC Black Box Addition PKG 1

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



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

No.	Description	Date

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BUILDING NUMBER AB

**SECTION**

**S-306**



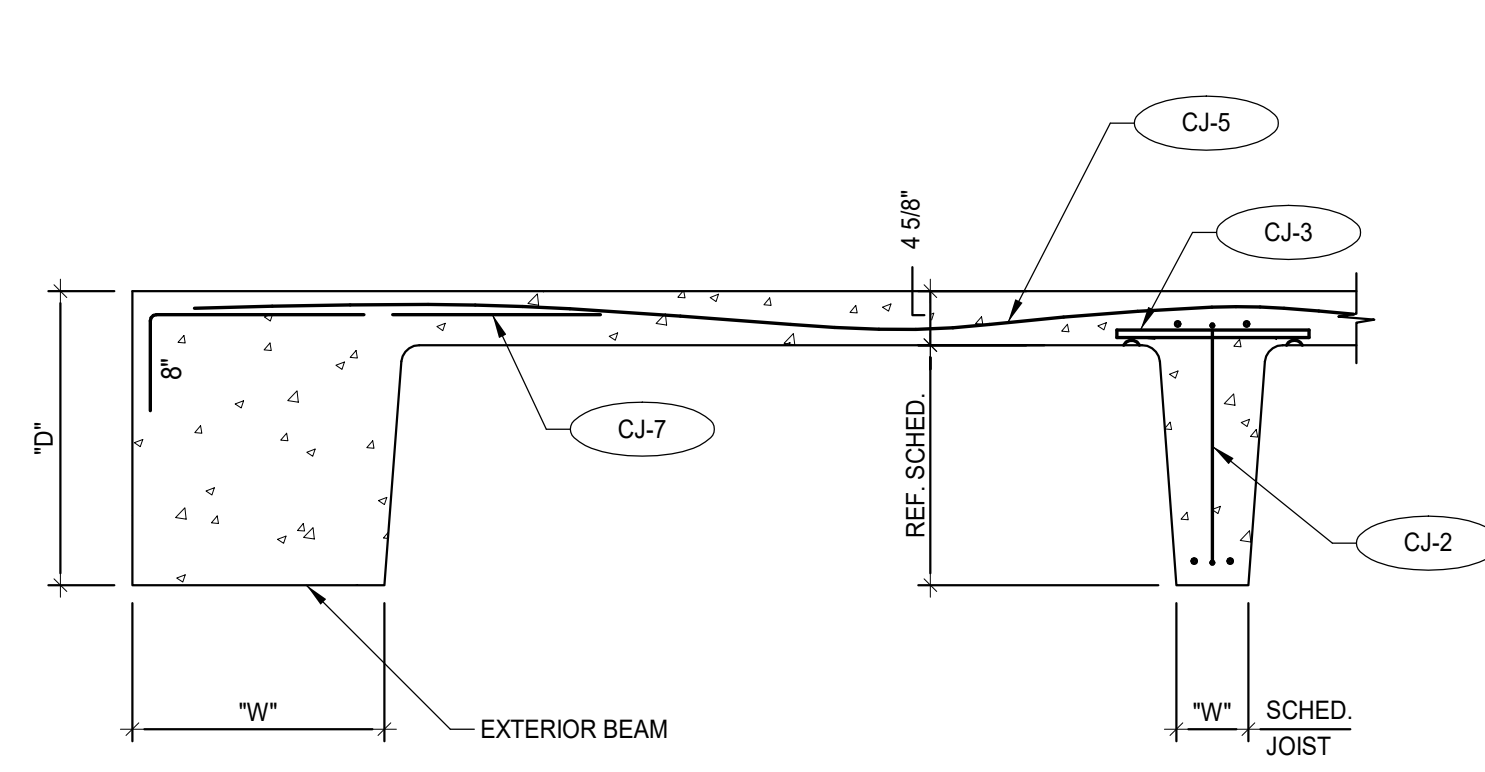




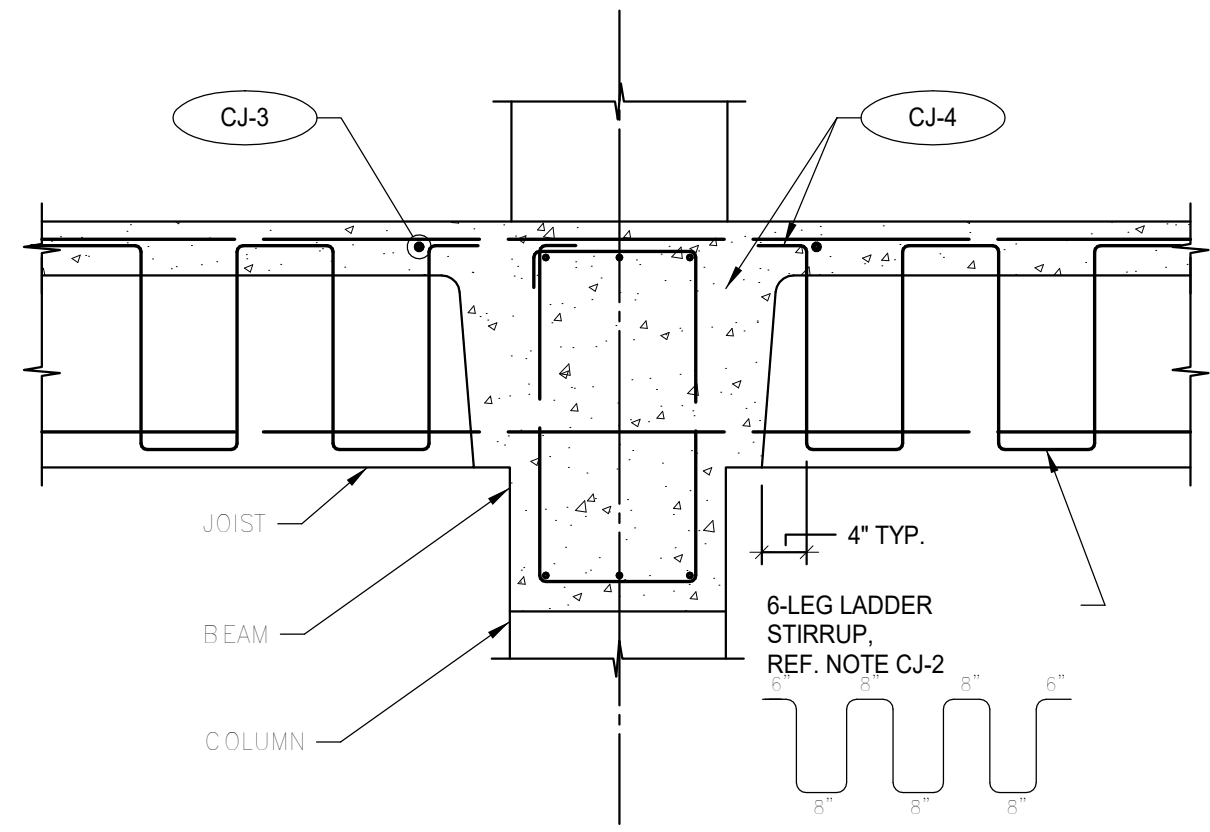




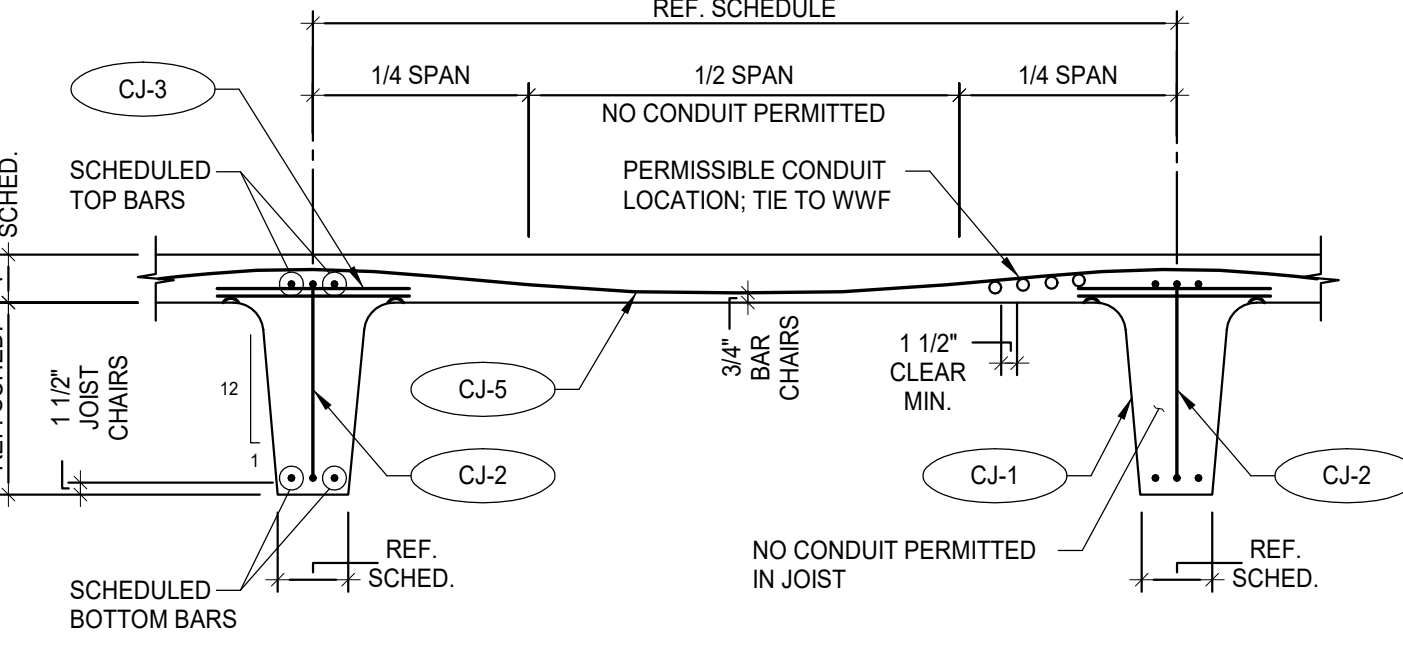
1st FLOOR CONCRETE JOIST SCHEDULE															
MARK	SIZE			MAIN REINFORCING						STIRRUPS			REMARKS		
	W	D	SECT.	SPCG.	TOP BARS		BOTTOM BARS		TOP BARS AT SUPPORT		SIZE	NO. LEGS		SPACING AT EACH END OF JOIST	
					REINF.	TYP.	REINF.	TYP.	REINF.	TYP.	SUPP.				
J1	6	20		6'-0"	2-#6	T2	1-#8	B6	-	-	-	#4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



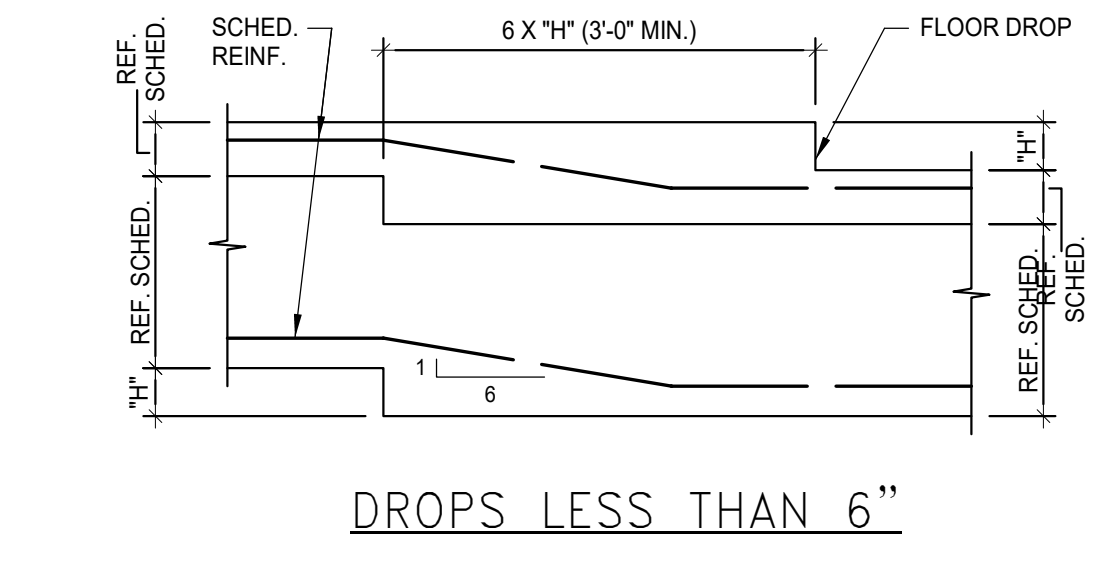
5 DETAIL TYP. SECT. @ REINF. BM. SCALE: 3/4" = 1'-0"



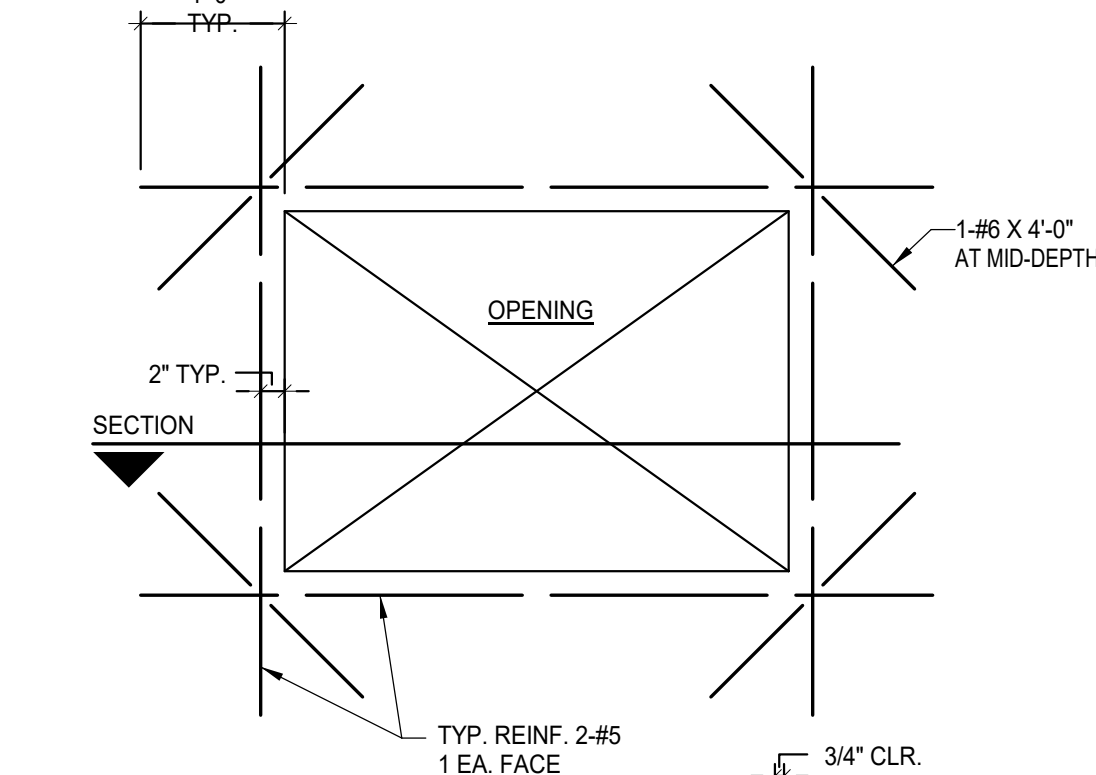
6 DETAIL TYP. SECT. @ INT. BM. SCALE: 3/4" = 1'-0"



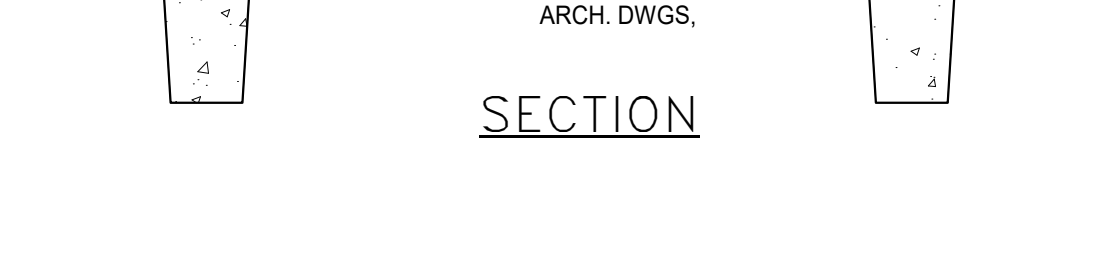
7 DETAIL TYP. ALLOWABLE CONDUIT PLACEMENT SCALE: 3/4" = 1'-0"



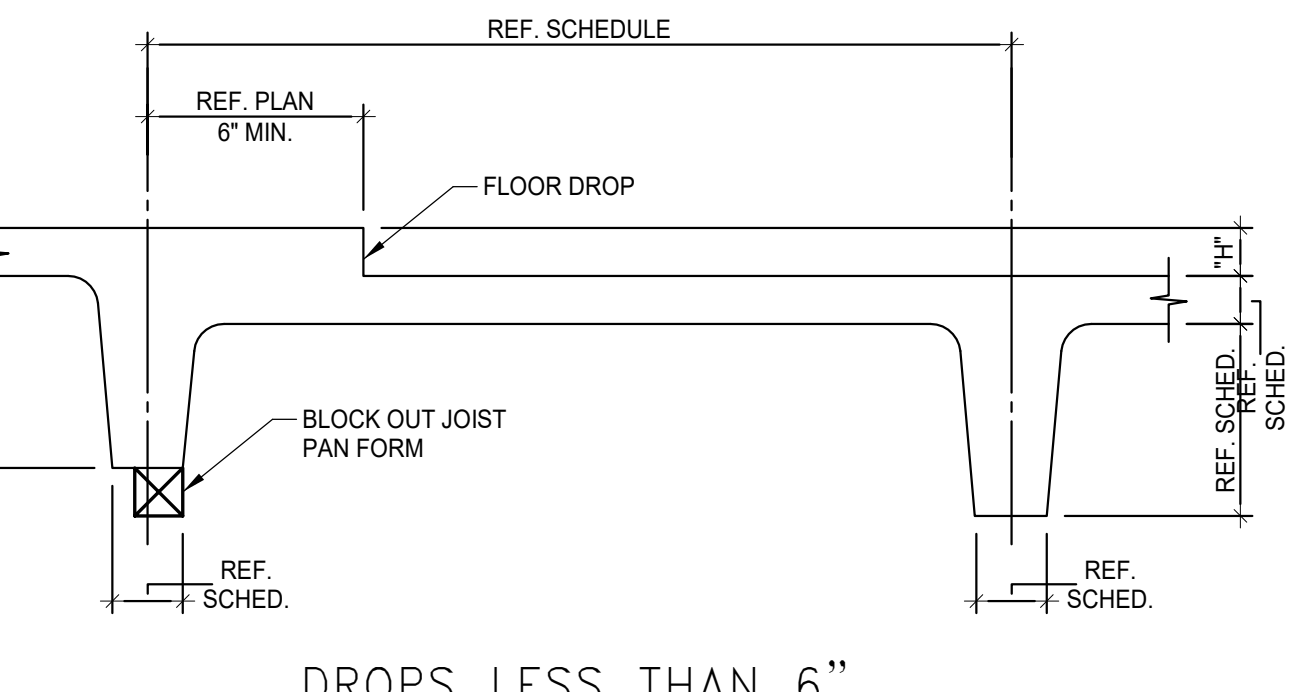
1 DETAIL TYP. REINF. @ SLAB DROP SCALE: 3/4" = 1'-0"



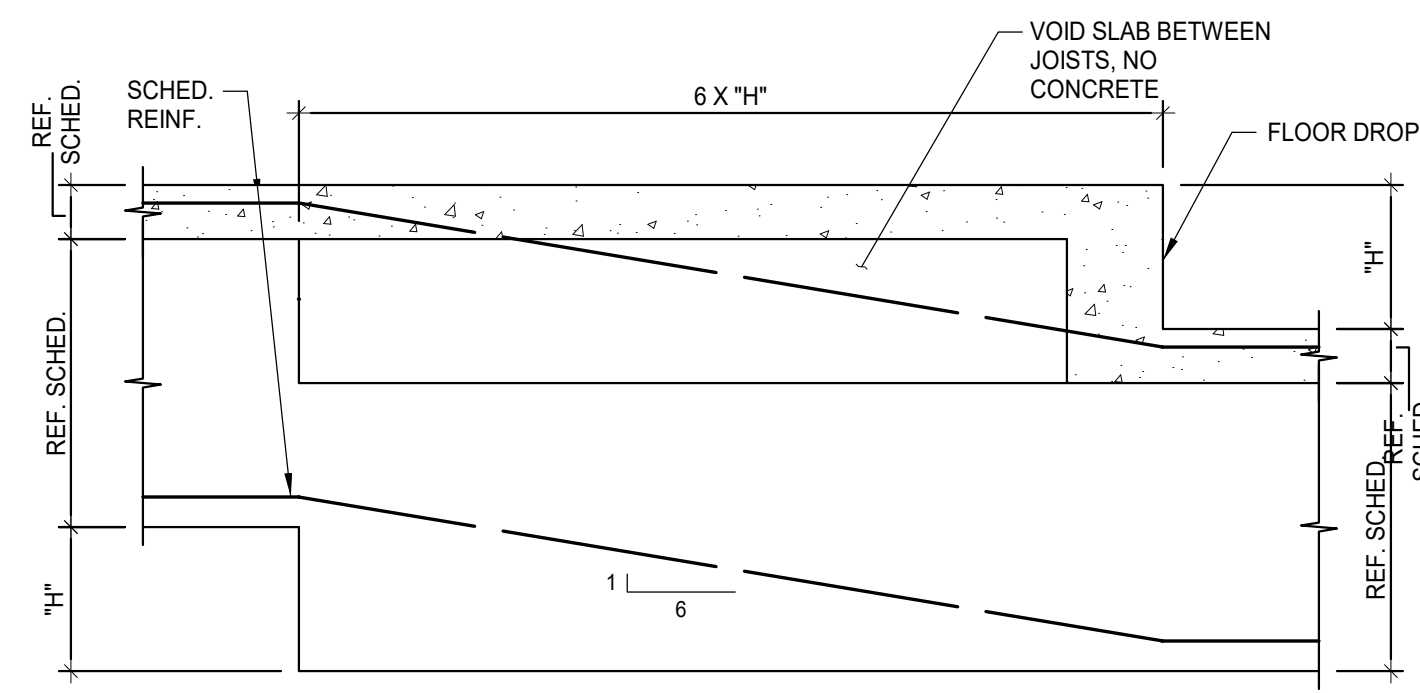
2 DETAIL TYP. SLAB REINF. @ ACCESS HATCH SCALE: 3/4" = 1'-0"



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. REINF. @ SLAB DROP 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 "B" 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.

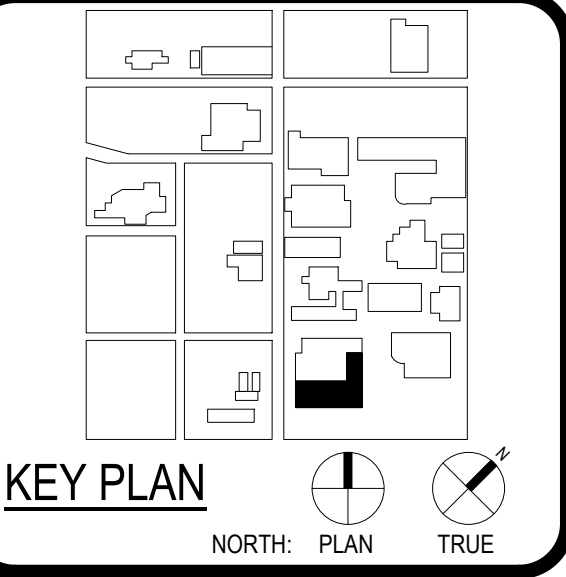
CJ-12 WHERE PARTITIONS RUNNING PARALLEL TO JOISTS ARE DESIGNATED BY THE SYMBOL ON THE FRAMING PLAN, OR NOTED ON ARCHITECTURAL DRAWINGS, ADD #4 X 6'-0" AT 9" O.C. FOR ENTIRE LENGTH OF JOIST SPAN IN BOTTOM OF SLAB ON 3/4" BAR CHAIRS, RUNNING PERPENDICULAR TO JOISTS FROM JOIST CENTERLINE TO JOIST CENTERLINE.



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 588 HEIMER ROAD PH. (210) 979-7900  
 SAN ANTONIO, TEXAS 78232 FX. (210) 979-7800  
 TX FIRM REG. #3388

WFAC Black Box Addition PKG 1



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

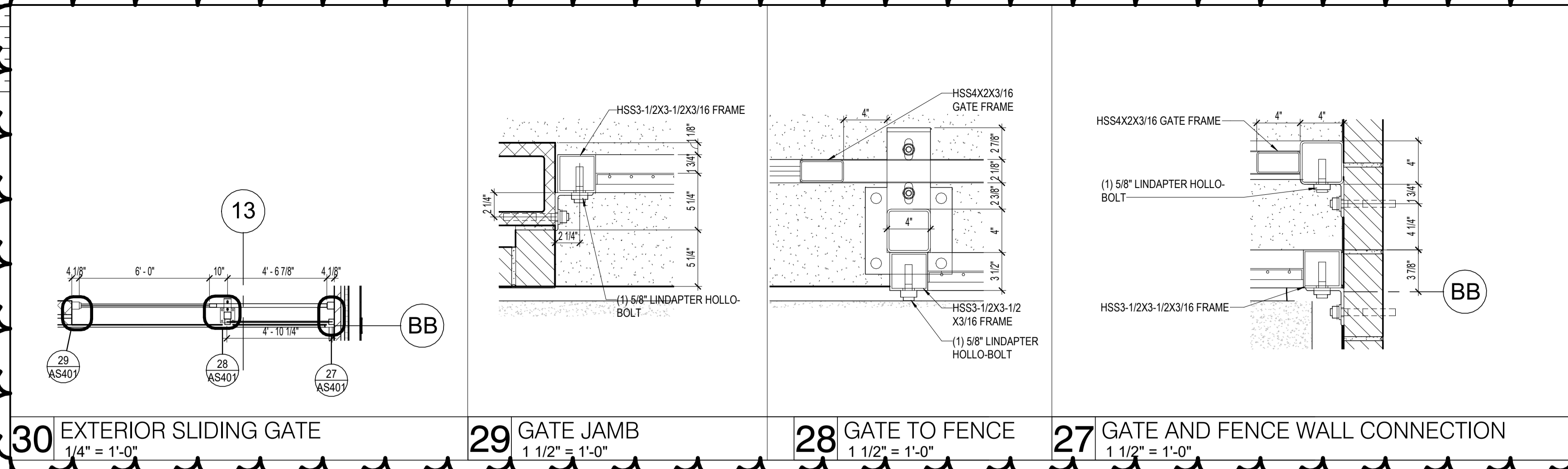
No.	Description	Date

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 BUILDING NUMBER AB

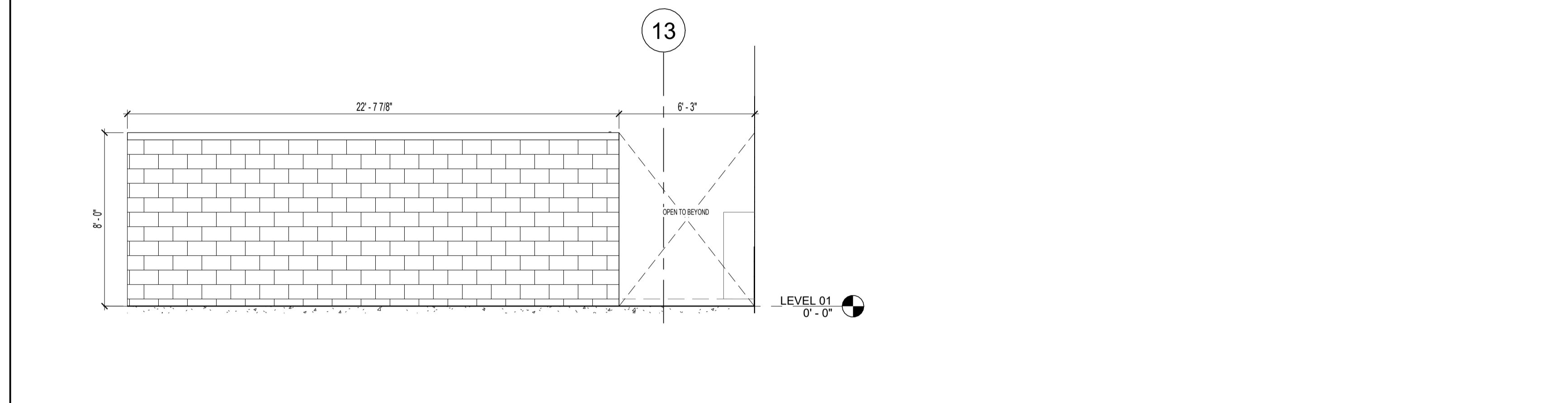
CONC. JOIST SCHED,  
 NOTES & DETAILS



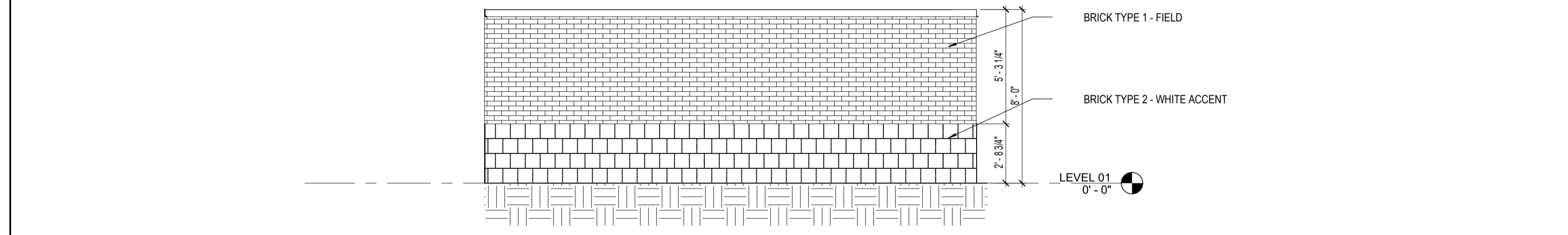




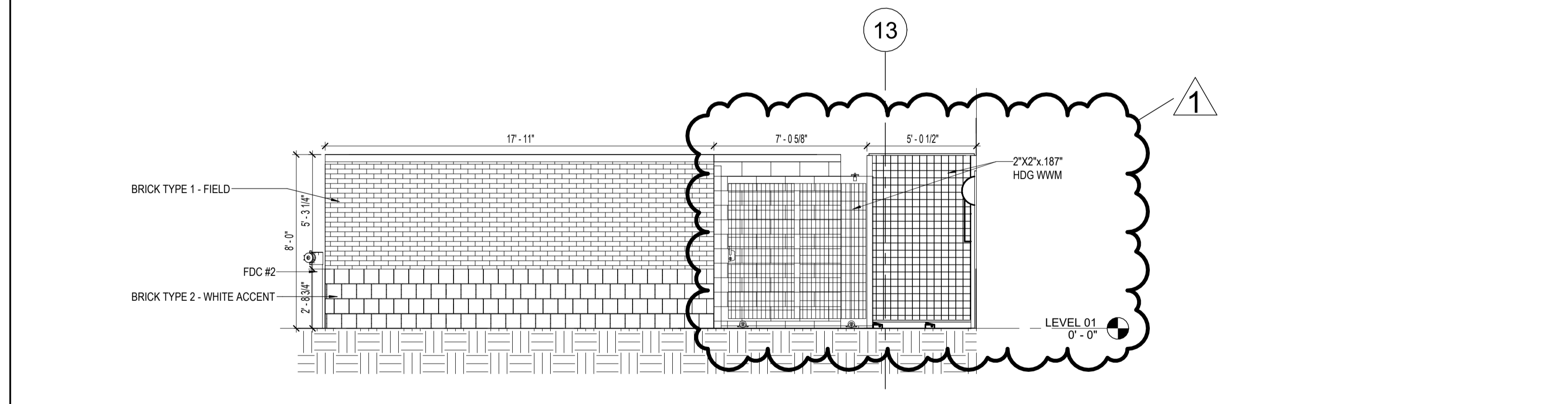
**30** EXTERIOR SLIDING GATE 1/4" = 1'-0"  
**29** GATE JAMB 1 1/2" = 1'-0"  
**28** GATE TO FENCE 1 1/2" = 1'-0"  
**27** GATE AND FENCE WALL CONNECTION 1 1/2" = 1'-0"



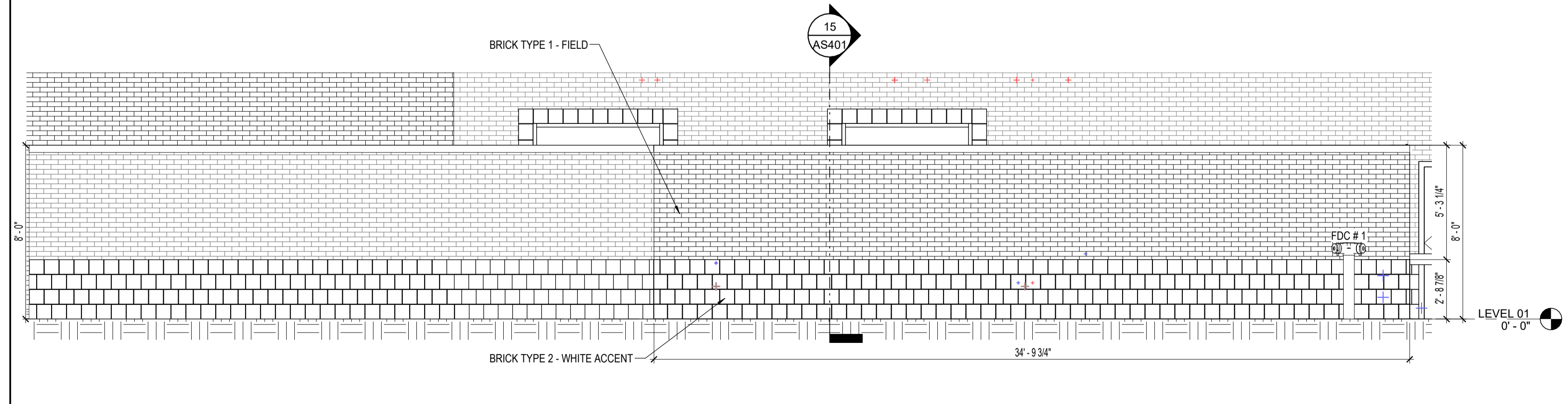
**24** NORTH EQUIPMENT ELEVATION 1/4" = 1'-0"



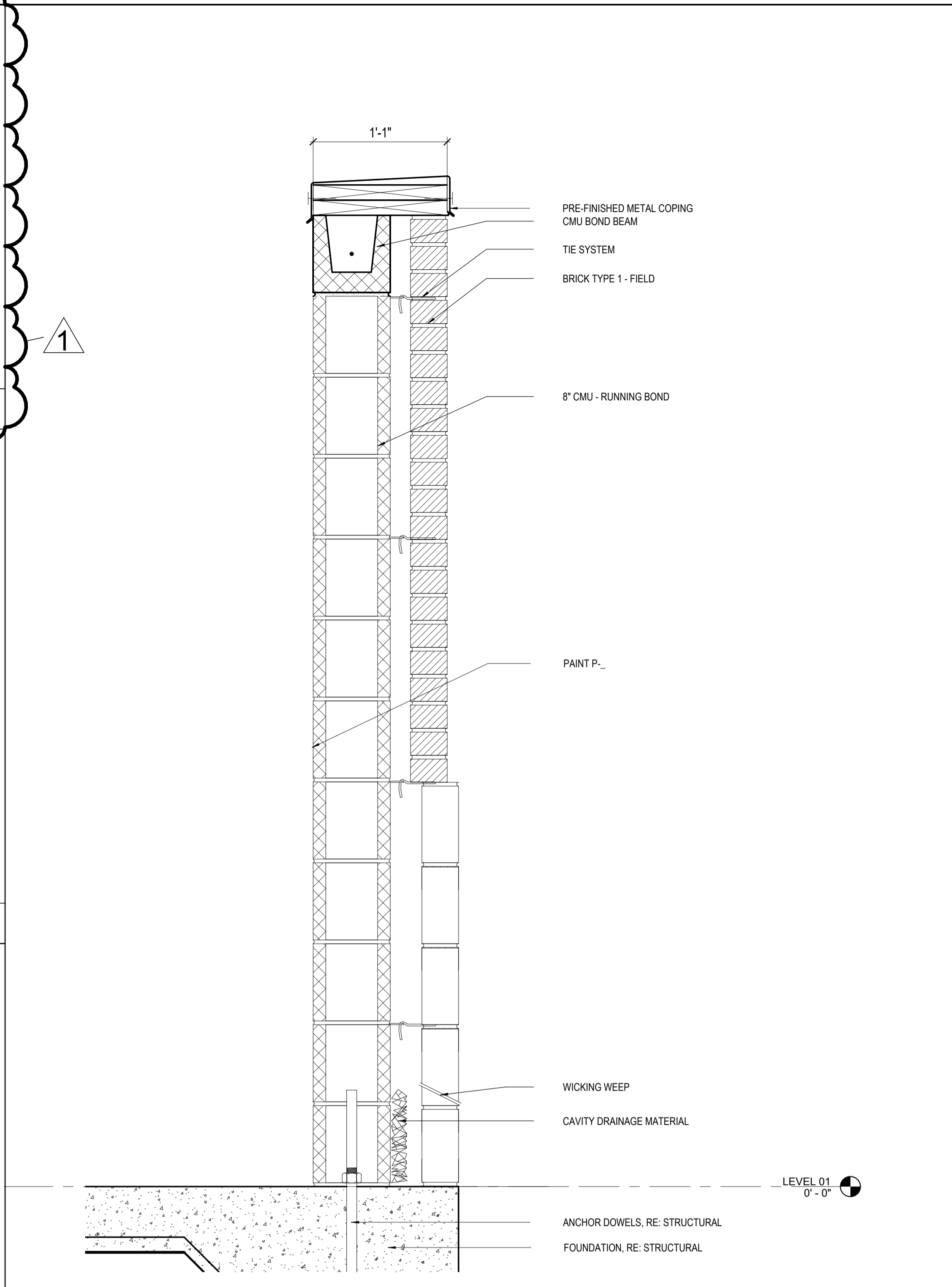
**18** EQUIPMENT ELEVATION NORTH 1/4" = 1'-0"



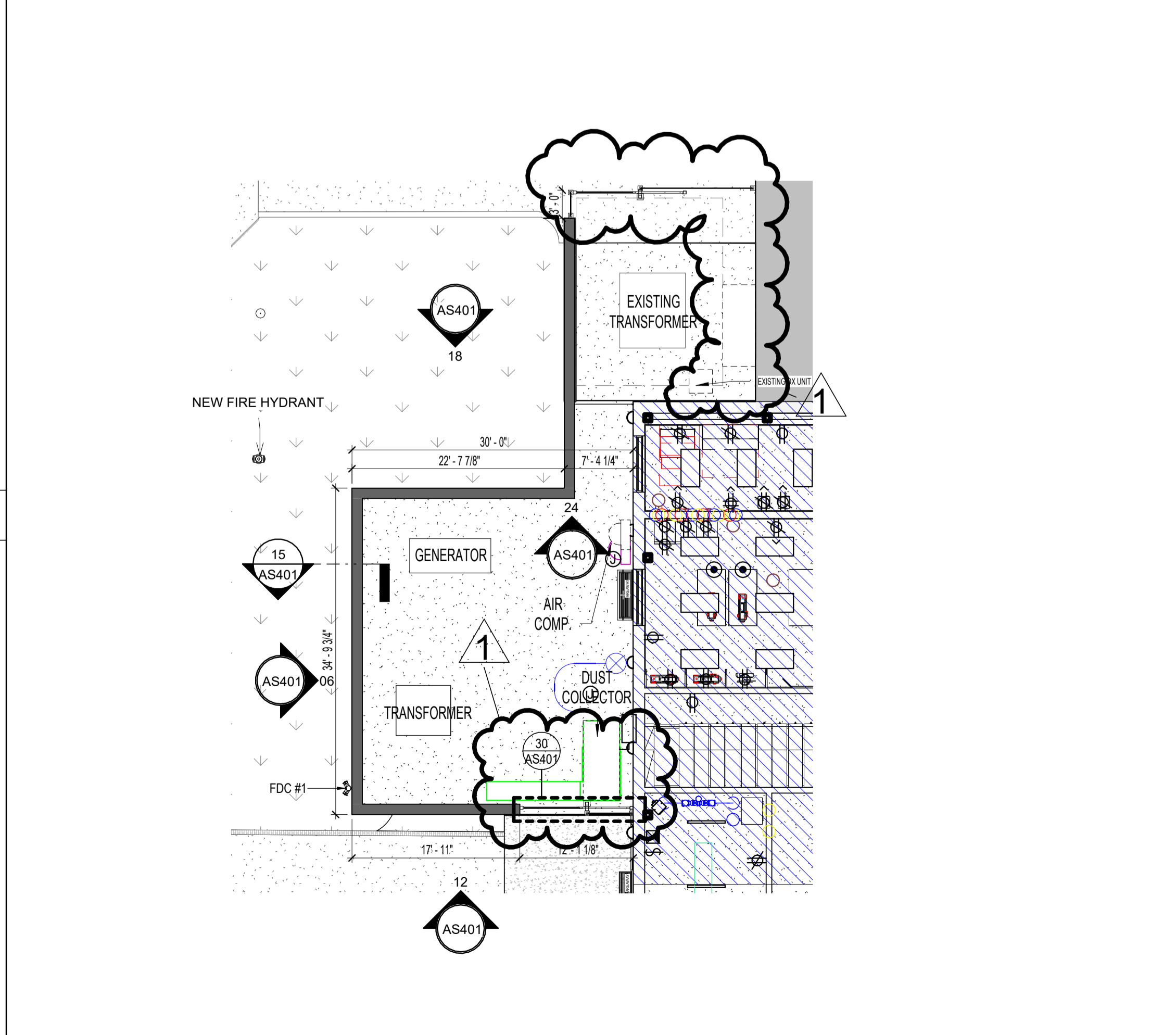
**12** EQUIPMENT ELEVATION SOUTH 1/4" = 1'-0"



**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\"/>

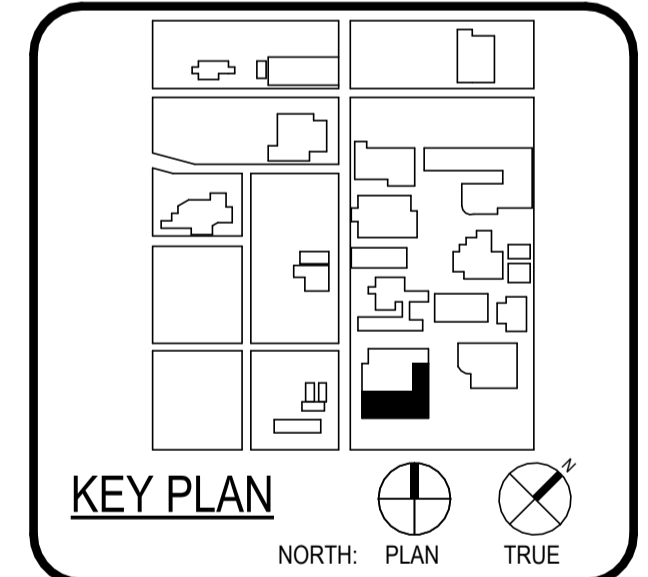
ARCH SITE PLAN LEGEND

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



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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	
2024/06/14		
DRAWING HISTORY		
No.	Description	Date
1	AS1 #1 - CITY & OWNER COMMENTS	6-14-2024

ISSUE FOR CONSTRUCTION  
BUILDING NUMBER 1  
ARCHITECTURAL ENLARGED SITE PLANS

AS401





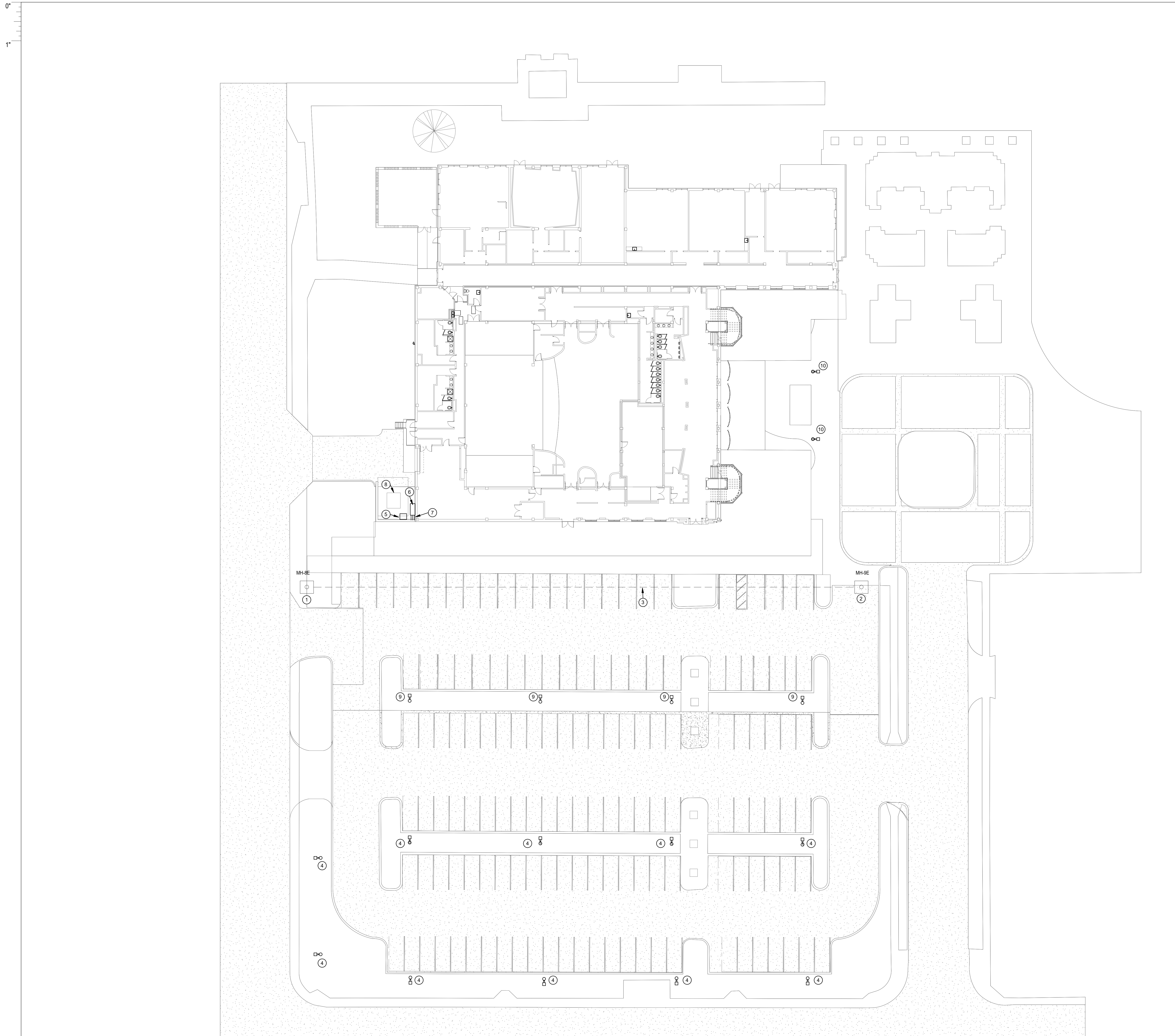




# ISSUE FOR CONSTRUCTION

File Path: Autodesk Docs://Alamo CS\_230462\_Al Philip College WBB Add#E23 WFAC - Blackbox Addition - A23.rvt

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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 IMPEDEING 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.

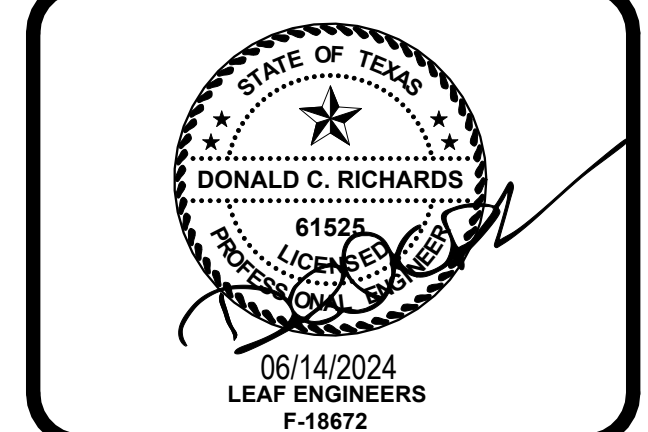
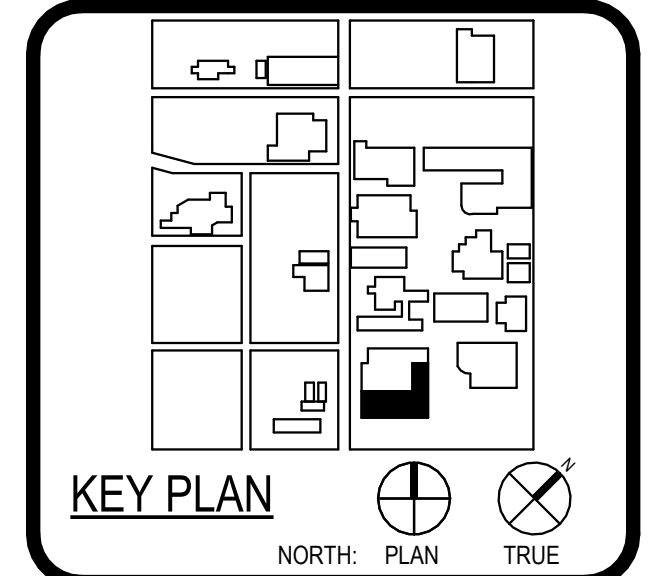
**1 DEMO SITE POWER PLAN**  
SCALE: 1" = 20'-0"



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
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ENGINEER	LEAF ENGINEERS 1801 Main Luther King Dr., San Antonio, TX 78203
LANDSCAPE	LEAF ENGINEERS 1801 Main Luther King Dr., San Antonio, TX 78203
MECHANICAL	LUNY & FRANK ENGINEERING 1100 N. LOOP WEST SUITE 1000 SAN ANTONIO, TEXAS 78207 210-224-1100
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	LEAF ENGINEERS 1801 Main Luther King Dr., San Antonio, TX 78203
MECHANICAL	LEAF ENGINEERS 1801 Main Luther King Dr., San Antonio, TX 78203



WFAC Black Box Addition PKG 1



CLIENT		
Alamo Colleges	PROJECT NUMBER	
DATE	230462	
06/14/2024		
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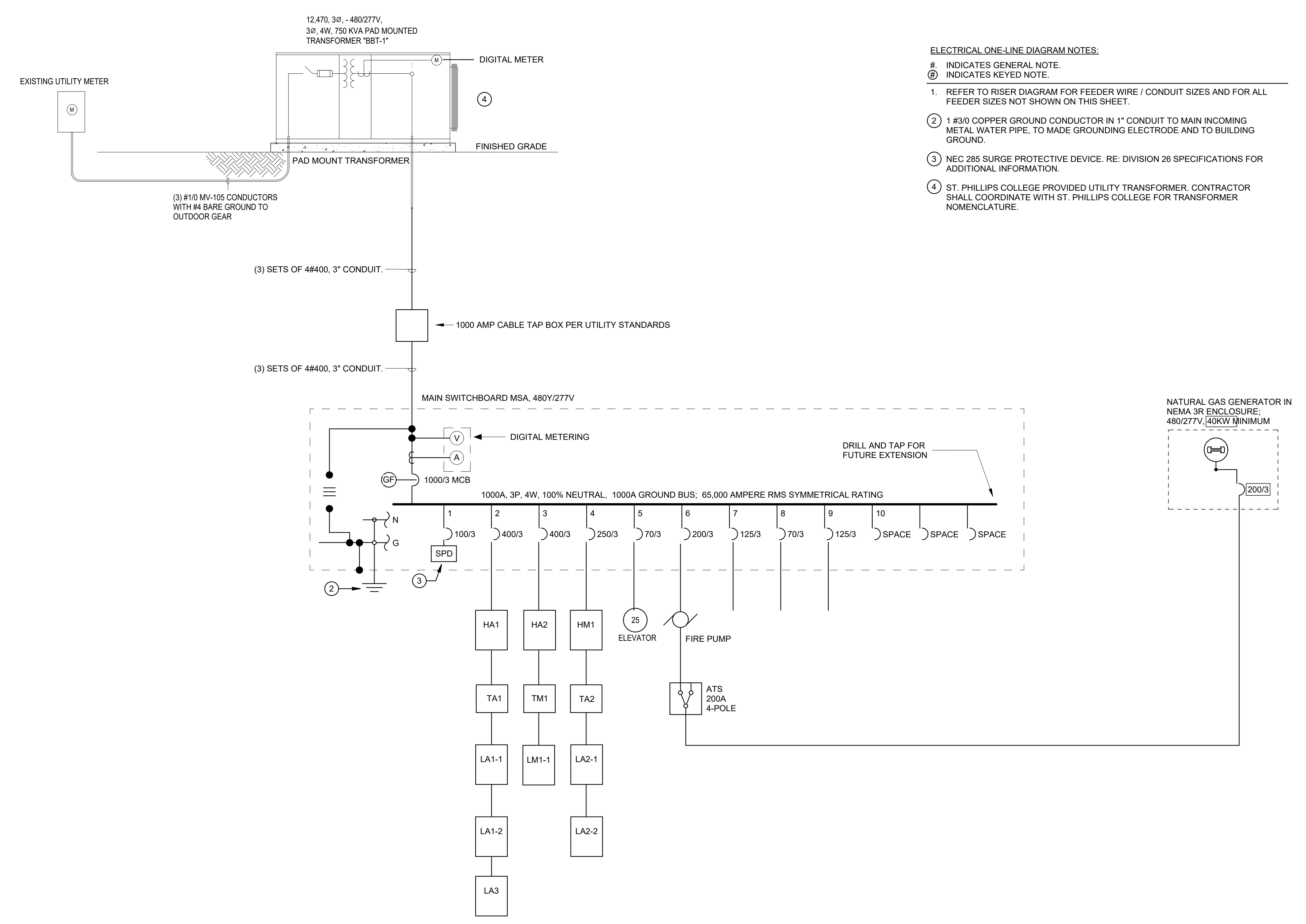
**ISSUE FOR CONSTRUCTION**  
BUILDING NUMBER 1

**DEMO SITE POWER PLAN**

# ISSUE FOR CONSTRUCTION

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- ELECTRICAL ONE-LINE DIAGRAM NOTES:**
- # INDICATES GENERAL NOTE.
  - ② INDICATES KEYED NOTE.
  - 1. REFER TO RISER DIAGRAM FOR FEEDER WIRE / CONDUIT SIZES AND FOR ALL FEEDER SIZES NOT SHOWN ON THIS SHEET.
  - 2. 1 #3/0 COPPER GROUND CONDUCTOR IN 1" CONDUIT TO MAIN INCOMING METAL WATER PIPE, TO MAKE GROUNDING ELECTRODE AND TO BUILDING GROUND.
  - 3. NEC 285 SURGE PROTECTIVE DEVICE. RE: DIVISION 26 SPECIFICATIONS FOR ADDITIONAL INFORMATION.
  - 4. ST. PHILLIPS COLLEGE PROVIDED UTILITY TRANSFORMER. CONTRACTOR SHALL COORDINATE WITH ST. PHILLIPS COLLEGE FOR TRANSFORMER NOMENCLATURE.

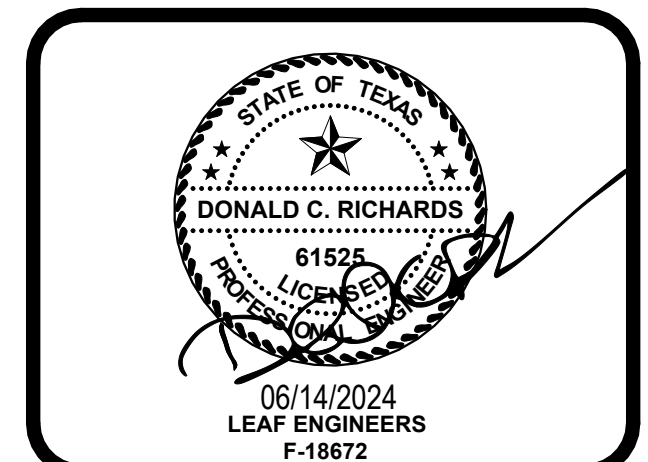
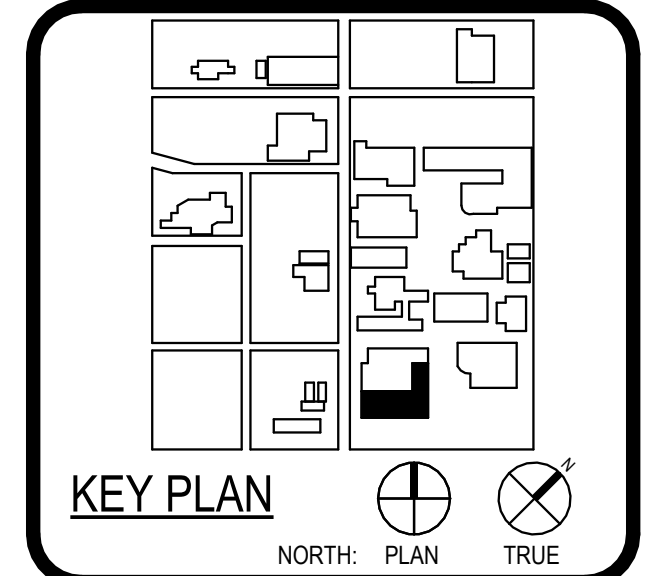


ARCHITECT	PBK Architects, Inc.
601 N.W. Loop 410, Suite 400 San Antonio, TX 78216 210-829-0123 P 210-829-0578 F TX Firm BR 1608	
ASSOCIATE ARCHITECT	PKB ARCHITECTS
DESIGNER	PKB ARCHITECTS
LANDSCAPE	PKB ARCHITECTS
MECHANICAL	PKB ARCHITECTS
ELECTRICAL	PKB ARCHITECTS
PLUMBING	PKB ARCHITECTS
STRUCTURE	PKB ARCHITECTS
INTERIORS	PKB ARCHITECTS
EXTERIORS	PKB ARCHITECTS
TRAVEL	PKB ARCHITECTS
TELEPHONE	PKB ARCHITECTS
TELEFAX	PKB ARCHITECTS
WEBSITE	PKB ARCHITECTS
EMAIL	PKB ARCHITECTS
ADDRESS	PKB ARCHITECTS



WFAC Black Box Addition PKG 1

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



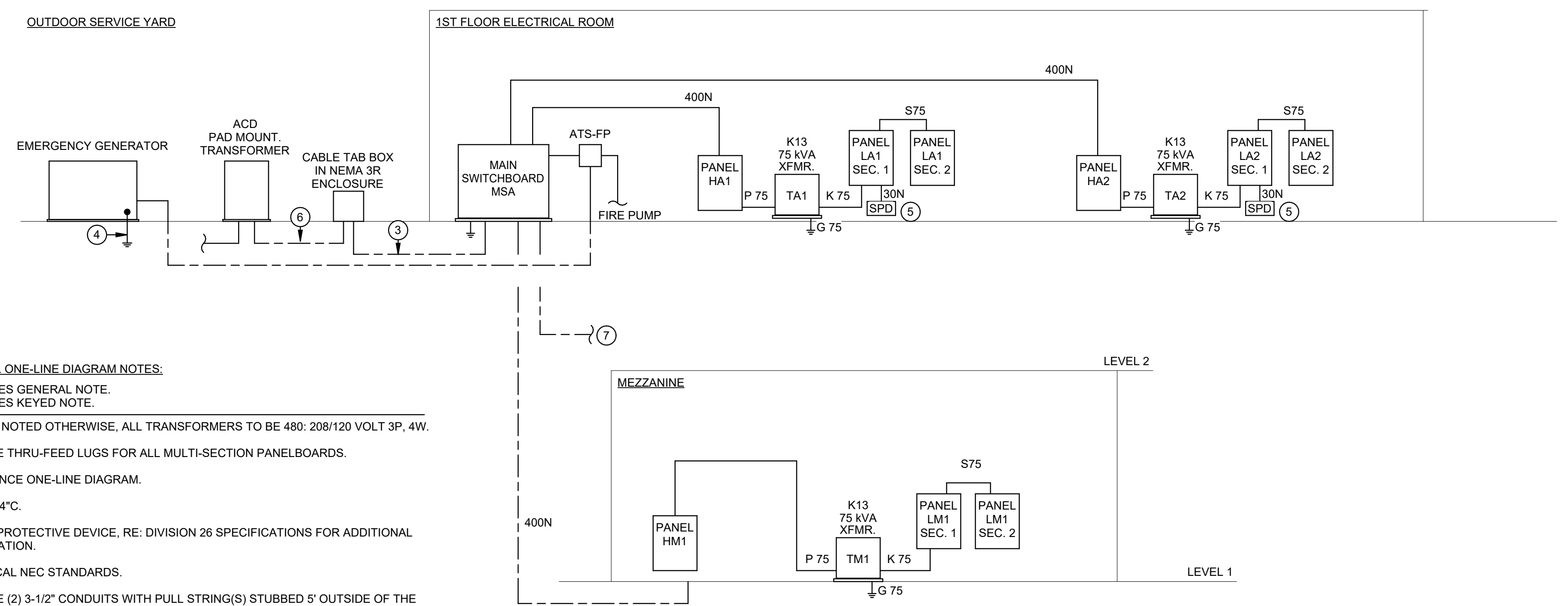
CLIENT	Alamo Colleges	
DATE	06/14/2024	
PROJECT NUMBER	230462	
DRAWING HISTORY		
No.	Description	Date

ISSUE FOR CONSTRUCTION  
 BUILDING NUMBER 1

ELECTRICAL  
 ONE-LINE DIAGRAM

E-501

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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	



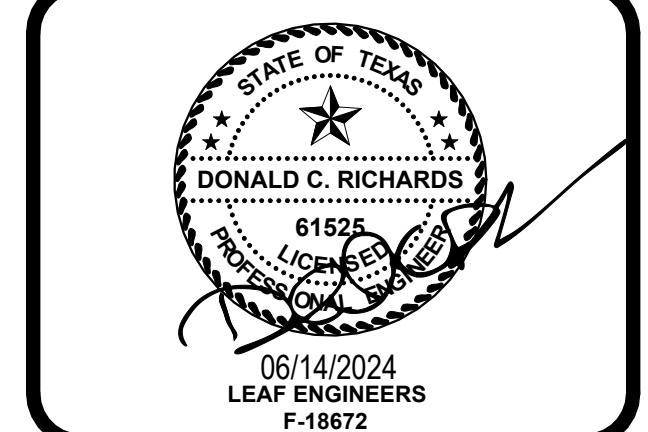
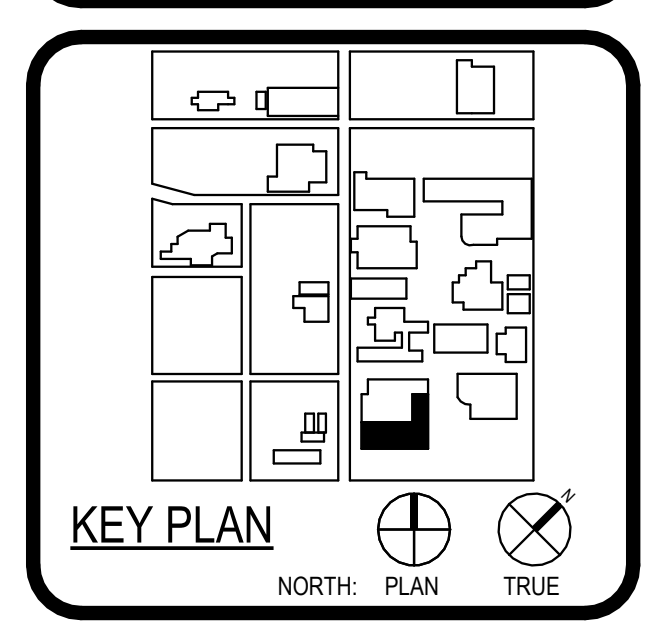
ARCHITECT SAN ANTONIO PBK Architects, Inc.  
601 N.W. Loop 410, Suite 400  
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210-820-0123 P  
210-829-5578 F  
TX Firm BR 1608



WFAC Black Box Addition PKG 1

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

ISSUE FOR CONSTRUCTION



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

ISSUE FOR CONSTRUCTION  
BUILDING NUMBER 1

**ELECTRICAL RISER DIAGRAM**



**GENERAL ELECTRICAL NOTES**

- 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
    - 15" AFF TO BOTTOM OF BOX
  - WALL CONVENIENCE RECEPTACLES
    - 15" AFF TO BOTTOM OF BOX
  - WALL DATA/VOICE OUTLETS
    - 7'-0" AFF (OR ABOVE CHALKBOARDS WHERE REQUIRED)
  - WALL OUTLETS FOR WALL MTD. TELEPHONE
    - 7'-0" AFF (OR ABOVE CHALKBOARDS WHERE REQUIRED)
  - WALL CLOCK OUTLETS
    - 7'-0" AFF (OR ABOVE CHALKBOARDS WHERE REQUIRED)
  - MANUAL FIRE ALARM PULL STATIONS
    - 1'-0" BELOW CEILING, OR IN CEILING, AS REQUIRED\*
  - FIRE ALARM SPEAKER/HORN
    - 1'-0" BELOW CEILING, OR IN CEILING, AS REQUIRED\*
  - INTERIOR BELLS BUZZERS, HORNS
    - 15" AFF TO BOTTOM OF BOX (OR HIGHER AS REQUIRED TO SERVE EQUIPMENT)
  - SPECIAL PURPOSE WALL OUTLETS
    - 15" AFF TO BOTTOM OF BOX (OR HIGHER AS REQUIRED TO SERVE EQUIPMENT)
  - PUSH BUTTONS
    - 80" AFF TO BOTTOM OF LENS OR 6" BELOW CEILING, WHICHEVER IS LOWER, ENTIRE LENS TO BE WITHIN 80" TO 96" AFF\*
  - ADA VISUAL ALARM
    - 80" AFF TO BOTTOM OF LENS OR 6" BELOW CEILING, WHICHEVER IS LOWER, ENTIRE LENS TO BE WITHIN 80" TO 96" AFF\*

AFF = ABOVE FINISHED FLOOR  
 AFG = ABOVE FINISHED GRADE

- 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.
- 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. OBTAIN APPROVAL FROM ARCHITECT BEFORE ELECTRICAL ROUGH-IN WHEN CONFLICTS ARISE.
- REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION OF ALL HVAC AND PLUMBING EQUIPMENT. CIRCUITING
  - BRANCH CIRCUITING IS SCHEMATIC IN NATURE AND IS INTENDED TO INDICATE CIRCUIT LOADING AND CONTROL. NOT METHODS OF INSTALLATION. REFER TO SPECIFICATIONS FOR METHODS OF INSTALLATION AND MATERIALS, INCLUDING WHETHER OR NOT BX IS ALLOWED AND WHETHER "THROUGH-FIXTURE" OR "OCTOPUS (EMT WITH FLEXIBLE WHIPS)" TYPE LIGHTING BRANCH CIRCUITING IS REQUIRED.
  - WHERE WIRE SIZE AND CONDUIT SIZE IS NOT INDICATED ON THE DRAWINGS AND/OR PANEL SCHEDULES, REFER TO SPECIFICATIONS FOR MINIMUM SIZE REQUIRED.
  - BRANCH CIRCUITS ON THE DRAWINGS ARE GENERALLY NOT SHOWN GROUPED IN SINGLE RACEWAYS, HOWEVER, GROUPING IS ALLOWED UNDER CERTAIN CONDITIONS. REFER TO DIVISION 26 SPECIFICATIONS UNDER SECTION ENTITLED "ELECTRICAL WIRING" FOR REQUIREMENTS.
  - THE DRAWINGS GENERALLY INDICATE QUANTITY OF CONDUCTORS ON BRANCH CIRCUIT HOME RUNS ONLY. ELSEWHERE WITHIN CIRCUITS, PROVIDE QUANTITY OF CONDUCTORS AS NEEDED TO ACCOMPLISH CIRCUITING AND SWITCHING REQUIREMENTS SHOWN.
- THE ELECTRICAL CONTRACTOR SHALL COMPLY WITH ALL AUTHORITIES HAVING JURISDICTION, NEC, ALL STATE AND LOCAL CODES AND AMENDMENTS.

**GENERAL ELECTRICAL REMODEL NOTES**

- 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
    - 15" AFF TO BOTTOM OF BOX
  - WALL CONVENIENCE RECEPTACLES
    - 15" AFF TO BOTTOM OF BOX
  - WALL DATA/VOICE OUTLETS
    - 7'-0" AFF (OR ABOVE CHALKBOARDS WHERE REQUIRED)
  - WALL OUTLETS FOR WALL MTD. TELEPHONE
    - 7'-0" AFF (OR ABOVE CHALKBOARDS WHERE REQUIRED)
  - WALL CLOCK OUTLETS
    - 7'-0" AFF (OR ABOVE CHALKBOARDS WHERE REQUIRED)
  - MANUAL FIRE ALARM PULL STATIONS
    - 1'-0" BELOW CEILING, OR IN CEILING, AS REQUIRED\*
  - FIRE ALARM SPEAKER/HORN
    - 1'-0" BELOW CEILING, OR IN CEILING, AS REQUIRED\*
  - INTERIOR BELLS BUZZERS, HORNS
    - 15" AFF TO BOTTOM OF BOX (OR HIGHER AS REQUIRED TO SERVE EQUIPMENT)
  - SPECIAL PURPOSE WALL OUTLETS
    - 15" AFF TO BOTTOM OF BOX (OR HIGHER AS REQUIRED TO SERVE EQUIPMENT)
  - PUSH BUTTONS
    - 80" AFF TO BOTTOM OF LENS OR 6" BELOW CEILING, WHICHEVER IS LOWER, ENTIRE LENS TO BE WITHIN 80" TO 96" AFF\*
  - ADA VISUAL ALARM
    - 80" AFF TO BOTTOM OF LENS OR 6" BELOW CEILING, WHICHEVER IS LOWER, ENTIRE LENS TO BE WITHIN 80" TO 96" AFF\*

AFF = ABOVE FINISHED FLOOR  
 AFG = ABOVE FINISHED GRADE

- 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.
- 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. OBTAIN APPROVAL FROM ARCHITECT BEFORE ELECTRICAL ROUGH-IN WHEN CONFLICTS ARISE.
- REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION OF ALL HVAC AND PLUMBING EQUIPMENT. CIRCUITING
  - BRANCH CIRCUITING IS SCHEMATIC IN NATURE AND IS INTENDED TO INDICATE CIRCUIT LOADING AND CONTROL. NOT METHODS OF INSTALLATION. REFER TO SPECIFICATIONS FOR METHODS OF INSTALLATION AND MATERIALS, INCLUDING WHETHER OR NOT BX IS ALLOWED AND WHETHER "THROUGH-FIXTURE" OR "OCTOPUS (EMT WITH FLEXIBLE WHIPS)" TYPE LIGHTING BRANCH CIRCUITING IS REQUIRED.
  - WHERE WIRE SIZE AND CONDUIT SIZE IS NOT INDICATED ON THE DRAWINGS AND/OR PANEL SCHEDULES, REFER TO SPECIFICATIONS FOR MINIMUM SIZE REQUIRED.
  - BRANCH CIRCUITS ON THE DRAWINGS ARE GENERALLY NOT SHOWN GROUPED IN SINGLE RACEWAYS, HOWEVER, GROUPING IS ALLOWED UNDER CERTAIN CONDITIONS. REFER TO DIVISION 26 SPECIFICATIONS UNDER SECTION ENTITLED "ELECTRICAL WIRING" FOR REQUIREMENTS.
  - THE DRAWINGS GENERALLY INDICATE QUANTITY OF CONDUCTORS ON BRANCH CIRCUIT HOME RUNS ONLY. ELSEWHERE WITHIN CIRCUITS, PROVIDE QUANTITY OF CONDUCTORS AS NEEDED TO ACCOMPLISH CIRCUITING AND SWITCHING REQUIREMENTS SHOWN.
- WHEN REMOVING EXISTING ELECTRICAL WORK WHERE OTHER ITEMS REMAIN ON THE SAME CIRCUIT, THE CONTRACTOR SHALL TAKE WHATEVER STEPS ARE NECESSARY TO MAINTAIN CIRCUIT CONTINUITY. ALL ITEMS NOTED TO BE REMOVED ARE TO REMAIN THE PROPERTY OF THE OWNER. HOWEVER, CONTRACTOR SHALL REMOVE FROM JOB SITE ALL MATERIAL NOT RETAINED BY OWNER. FIELD VERIFY CONDITION OF, AND MODIFICATIONS AND ADDITIONS TO, ALL EXISTING ELECTRICAL FIXTURES, PANELS, WIRING, ETC.
- WHERE DOORS ARE ADDED, OR PORTIONS OF WALLS REMOVED, CONTRACTOR SHALL REMOVE OR RELOCATE ALL ELECTRICAL WORK NECESSARY FOR THE REMODELING MODIFICATION, WHETHER OR NOT THIS WORK IS NOTED ON PLANS.
- WHERE EXISTING JUNCTION BOXES ARE COVERED OR REMOVED, CONTRACTOR SHALL TAKE WHATEVER STEPS ARE NECESSARY TO COMPLY WITH NEC 314-19.
- EXISTING ELECTRICAL BOXES TO REMAIN IN AREAS WHERE NEW WALL FINISHES ARE TO BE APPLIED SHALL BE RESET AS NECESSARY TO PROVIDE FLUSH MOUNTING FOR BOXES.
- CONTRACTOR SHALL FIELD VERIFY EXISTING BRANCH CIRCUIT LOADING WHEN MAKING MODIFICATIONS AND/OR ADDITIONS TO THAT CIRCUIT. IF NEW WORK WOULD OVERLOAD EXISTING CIRCUIT, CONTRACTOR SHALL LOCATE ANOTHER EXISTING CIRCUIT (THE CLOSEST), WHICH WOULD NOT BE OVERLOADED UPON ADDING NEW LOAD, AND SHALL TIE NEW LOAD INTO THAT CIRCUIT.
- WHEN EXISTING ELECTRICAL WORK IS REMOVED, ALL EXPOSED CONDUIT, WIRING, CONTROL AND JUNCTION BOXES ALONG WALLS, FLOOR, AND CEILING SHALL BE REMOVED. BRANCH CIRCUIT WIRES SHALL BE REMOVED BACK TO CIRCUIT BREAKER(S). BLANK COVER PLATES SHALL BE PROVIDED FOR RECESSED UNDER WORK COVERED IN OTHER SECTIONS.
- EXISTING RECESSED INCANDESCENT AND HID LUMINAIRES DESIGNATED FOR TEMPORARY REMOVAL AND RE-USE SHALL BE STORED. ALL SUCH LUMINAIRES NOT THERMALLY PROTECTED PER NEC 410-118 AND 410-130(F) ARE NOT SUITABLE FOR RE-USE AND SHALL BE GIVEN TO THE OWNER. PROVIDE NEW REPLACEMENT LUMINAIRES WITH UL THERMAL PROTECTION, IDENTICAL APERTURE, EQUIVALENT PHOTOMETRICS AND NEW LAMPS.
- CONTRACTOR TO REFER TO ARCHITECTURAL DEMOLITION PLANS AND PHASING PLANS AND HAVE A GOOD UNDERSTANDING OF SCOPE OF PROJECT PRIOR TO COMMENCEMENT OF WORK.
- LUMINAIRE SUPPORT IN SUSPENDED CEILING:
  - PROVIDE MEANS OF SUPPORT FOR LUMINAIRES PER NEC 410-16. T BAR CLIPS SHALL BE INSTALLED ON THE LUMINAIRE AND SHALL BE FIELD SECURED TO THE INVERTED CEILING TEES SO THAT THE LUMINAIRE IS SECURELY FASTENED TO THE CEILING SYSTEM FRAMING MEMBERS.
  - CEILING TILES SHALL NOT BEAR THE WEIGHT OF LUMINAIRES. SURFACE MOUNT LUMINAIRES, RECESSED DOWNLIGHTS, LIGHT TRACK, EXIT SIGNS, ETC. SHALL BE SUPPORTED BY PROPER FRAMES OR OTHER ATTACHMENT TO MAIN CEILING SYSTEM GRID OR BUILDING STRUCTURE ABOVE CEILING.
  - LUMINAIRES SHALL BE CENTERED IN CEILING TILE.
  - LUMINAIRE SHALL HAVE FLANGE OR TRIM RING FOR CLOSURE OF CEILING CUTOUT OR OPENING.
  - FIRE-RATED CEILING ASSEMBLY: FOR LUMINAIRES TO BE FLUSH-MOUNTED INTO A FIRE-RATED CEILING OR SURFACE MOUNTED TO A FIRE-RATED CEILING, INSTALL WITH INDEPENDENT, SECURE SUPPORT, RACEWAY, CABLE ASSEMBLIES BOXES AND FITTINGS LOCATED ABOVE A FIRE-RATED FLOOR/CEILING OR ROOF CEILING ASSEMBLY SHALL NOT BE SECURED TO, OR SUPPORTED BY, THE CEILING ASSEMBLY INCLUDING CEILING SUPPORT WIRES. PROVIDE AN INDEPENDENT MEANS OF SECURE SUPPORT. INDEPENDENT SUPPORT WIRES SHALL BE DISTINGUISHABLE BY COLOR, TAGGING, OR OTHER EFFECTIVE MEANS FROM THOSE THAT ARE PART OF THE FIRE-RATED DESIGN.
- CONTRACTOR SHALL FIELD VERIFY ANY EXISTING UNDERGROUND PIPING, WIRING, OR OTHER FACILITIES PRIOR TO TRENCHING, AND SHALL BE RESPONSIBLE FOR ANY DAMAGE CAUSED BY INSTALLATION OF NEW WORK.
- THE ELECTRICAL CONTRACTOR SHALL COMPLY WITH ALL AUTHORITIES HAVING JURISDICTION, NEC, AND STATE AND LOCAL CODES AND AMENDMENTS.

**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), SLANTED SHORTER TICK(S) INDICATE SWITCH LEG(S), DOT(S) INDICATE GROUNDING CONDUCTOR(S), DASHED WIRING (LONG-SHORT-LONG DASHES) INDICATES WIRING BELOW SLAB OR GRADE, DASHED WIRING (SERIES OF SHORT DASHES) INDICATES EXISTING WIRING, SLASH THROUGH ARROW INDICATES PARTIAL CIRCUIT, "D" ON HOMERUN ARROW INDICATES DEDICATED CIRCUIT. PROVIDE A SEPARATE NEUTRAL FOR EACH PHASE CONDUCTOR FOR ENTIRE LENGTH OF CIRCUIT FROM PANEL TO OUTLET. COUNT EACH NEUTRAL AS CURRENT-CARRYING AND GROUP A MAXIMUM OF SIX THHN/THWN CONDUCTORS IN A SINGLE RACEWAY; GROUNDING CONDUCTOR IS NOT COUNTED
- JUNCTION BOX
- GROUNDING FIXTURE

**LIGHTING:**

- LED LIGHTING FIXTURE. LETTER INDICATES TYPE, SMALL LETTER INDICATES SWITCH CONTROL, NUMBER INDICATES CIRCUIT, CROSS HATCHING INDICATES FIXTURE ON EMERGENCY SYSTEM, FOR SOLID CIRCLE WITHIN FIXTURE REFERENCE APPROPRIATE CATEGORY "A" CIRCUIT RELATED SYMBOL
- STRIP TYPE LED LIGHTING FIXTURE. LETTER INDICATES TYPE, SMALL LETTER INDICATES SWITCH CONTROL, NUMBER INDICATES CIRCUIT, FOR SOLID CIRCLE ATTACHED TO FIXTURE REFERENCE APPROPRIATE CATEGORY "A" CIRCUIT RELATED SYMBOL
- LED LIGHTING FIXTURE. LETTER INDICATES TYPE, SMALL LETTER INDICATES SWITCH CONTROL, NUMBER INDICATES CIRCUIT, FOR SOLID CIRCLE REFERENCE APPROPRIATE CATEGORY "A" CIRCUIT RELATED SYMBOL
- DESIGNATES FIXTURE ON EMERGENCY POWER. RE: LIGHTING PLAN NOTES AND FIXTURE SCHEDULE NOTES FOR ADDITIONAL INFORMATION
- WALL OR BRACKET MOUNTED FIXTURE OR DEVICE
- EXIT LIGHT FIXTURE. LETTER INDICATES TYPE, NUMBER INDICATES CIRCUIT, NUMBER AND LOCATION OF SHADED TRIANGLE SECTIONS INDICATE NUMBER OF EXIT SIGN FACES AND DIRECTION OF EACH FACE, PROVIDE CHEVRON DIRECTIONAL INDICATORS AS SHOWN ON DRAWINGS

**CONTROL:**

- SWITCH. SMALL LETTER INDICATES FIXTURES CONTROLLED, "PI" INDICATES PILOT LIGHT, "WP" INDICATES WEATHERPROOF, "K" INDICATES KEY OPERATED, "MO" INDICATES SPDT MOMENTARY CONTACT, "Z" INDICATES DPDT, "3" INDICATES 3-WAY, "4" INDICATES 4-WAY, "M" INDICATES MANUAL MOTOR STARTER, CIRCUIT DESIGNATION NEXT TO SWITCH INDICATES BRANCH CIRCUIT NUMBER
- WALL BOX DIMMER SWITCH. "MARK" INDICATES WATTAGE IF OTHER THAN 600, "3D" INDICATES 3-WAY DIMMER
- MULTI-LEVEL SWITCH. CIRCUIT DESIGNATION NEXT TO SWITCH INDICATES BRANCH CIRCUIT NUMBER
- DIGITAL TIME SWITCH
- PHOTOELECTRIC CONTROL
- EMERGENCY POWER OFF (EPO) PUSHBUTTON
- PUSH BUTTON
- WALL MOUNT OCCUPANCY SENSOR
- DUAL TECHNOLOGY CEILING MOUNTED OCCUPANCY SENSOR
- CEILING MOUNTED RESTROOM OCCUPANCY SENSOR
- CEILING MOUNTED CORRIDOR OCCUPANCY SENSOR
- CEILING MOUNTED HIGH CEILING OCCUPANCY SENSOR

**POWER OUTLETS:**

- 20A-125V DUPLEX RECEPTACLE
- 20A-125V GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE. "WP" INDICATES WEATHER PROOF DEVICE
- 20A-125V DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER TOP. REFER TO ARCHITECT FOR EXACT HEIGHT ABOVE COUNTER
- 20A-125V CONTROLLED DUPLEX RECEPTACLE
- 20A-125V ISOLATED GROUND TYPE DUPLEX RECEPTACLE
- 20A-125V DUPLEX TAMPER RESISTANT RECEPTACLE WITH (2) USB CHARGING PORTS
- 20A-125V FOURPLEX RECEPTACLE. SAME SYMBOLOLOGY AS DUPLEX RECEPTACLE
- SPECIAL PURPOSE SINGLE POWER RECEPTACLE. RATED AS INDICATED (IF NO RATING INDICATED, RECEPTACLE RATING SHALL MATCH BRANCH CIRCUIT OVERCURRENT PROTECTIVE DEVICE AND SHALL MEET REQUIREMENTS OF EQUIPMENT BEING CONNECTED), "C" INDICATES CLOCK OUTLET
- 20A-125V FLUSH FLOOR DUPLEX RECEPTACLE. 20A WHEN INDICATED OR IF BRANCH CIRCUIT SERVES ONLY SINGLE DUPLEX. PROVIDE CARPED FLANGE WHERE APPLICABLE
- CIRCUIT DESIGNATION NEXT TO RECEPTACLE DEVICES INDICATES BRANCH CIRCUIT NUMBER. RE: PANEL SCHEDULES FOR INFORMATION.

**TELEPHONE/DATA:**

- FLUSH FLOOR TELEPHONE OUTLET WITH CARPET FLANGE WHERE APPLICABLE
- WALL COMMUNICATIONS OR DATA OUTLET. REFER TO 'TS' SERIES SHEETS FOR EXACT BOX / CONDUIT REQUIREMENTS
- FLUSH FLOOR COMMUNICATIONS OR DATA OUTLET. REFER TO 'TS' SERIES SHEETS FOR EXACT BOX / CONDUIT REQUIREMENTS. PROVIDE CARPET FLANGE WHERE APPLICABLE
- SURFACE FLOOR COMMUNICATIONS OR DATA OUTLET. REFER TO 'TS' SERIES SHEETS FOR EXACT BOX / CONDUIT REQUIREMENTS. PROVIDE CARPET FLANGE WHERE APPLICABLE

**EQUIPMENT:**

- A NOTATION INDICATING THE MOUNTING HEIGHT OF A DEVICE AS MEASURED FROM FINISHED FLOOR OR GRADE TO CENTER LINE OF DEVICE
- MOTOR
- DISCONNECT SWITCH. FRAME SIZE/FUSE SIZE/POLES AS INDICATED, "NF" INDICATES NON-FUSIBLE, NEMA 1 ENCLOSURE UNLESS OTHERWISE NOTED, PROVIDE FUSED BUSWAY PLUG WHEN SWITCH IS INDICATED ON BUSWAY. ALL DISCONNECT SWITCHES SHALL BE 30NF/3 UNLESS OTHERWISE NOTED
- SINGLE CIRCUIT BREAKER IN INDIVIDUAL ENCLOSURE
- MAGNETIC MOTOR CONTROLLER. NUMBER INDICATES NEMA SIZE. STARTER NEMA SIZE SHALL BE "NEMA 1" UNLESS OTHERWISE NOTED
- COMBINATION DISCONNECT SWITCH / MOTOR CONTROLLER
- CONTACTOR
- PANELBOARD
- SWITCHBOARD / DP
- TRANSFORMER
- GROUNDING CONNECTION TO GROUNDING ELECTRODE AS DEFINED IN NEC ARTICLE 250
- BELL. "WP" INDICATED OUTDOOR RATED

**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.
- 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. IF ARCHITECTURAL AND ELECTRICAL DRAWINGS CONFLICT IN EXACT COUNT OR FIXTURE TYPE, PROVIDE THE GREATER QUANTITY OR COST TYPE UNLESS OTHERWISE INSTRUCTED.
  - REFER TO DIVISION 26 ELECTRICAL SPECIFICATIONS FOR ADDITIONAL LUMINAIRE AND ELECTRICAL REQUIREMENTS (LENS, AIR HANDLING CHARACTERISTICS, T-BAR CLIPS, BALLAST, LAMPS, TIME FRAME FOR SUBMITTAL OF SUBSTITUTE LIGHT FIXTURES FOR PRIOR APPROVAL, ETC.).
  - FOR EACH SCHEDULED LUMINAIRE, PROVIDE ALL REQUIRED APPURTENANCES FOR INSTALLATION IN APPLICABLE STRUCTURE OR SPECIFIED ARCHITECTURAL EILING. ALL LUMINAIRES SHALL HAVE THE APPROPRIATE NEMA TYPE FRAME THAT IS COMPATIBLE WITH THE CEILING SYSTEM SPECIFIED BY THE ARCHITECT. ELECTRICAL DRAWINGS DO NOT INDICATE CEILING TYPES. CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS TO DETERMINE CEILING TYPE (GRID, FLANGE, SPLINE, SCREW SLOT, ETC.) AND PROVIDE APPROPRIATE FRAME.
  - EXIT SIGNS AND OTHER LUMINAIRES SHALL NOT BE SUPPORTED BY CEILING TILE. PROVIDE MOUNTING FRAME OR HANGERS TO SECURELY FASTEN IN PLACE. ALL LUMINAIRES MOUNTED IN CEILING TILE, FRAMING MEMBERS OF A SUSPENDED CEILING SYSTEM MAY BE USED WHERE DESIGNED FOR THE PURPOSE AND INSTALLED PER NEC 410-16(c).
  - WHERE A SURFACE-MOUNTED LUMINAIRE CONTAINING A BALLAST IS TO BE INSTALLED ON COMBUSTIBLE LOW-DENSITY CELLULOSE FIBERBOARD, IT SHALL BE LISTED FOR THIS CONDITION OR SHALL BE SPACED NOT LESS THAN 1 1/2 INCHES FROM THE SURFACE OF THE FIBERBOARD (NEC 410-76(b)).
  - REQUEST FOR SUBSTITUTION SHALL FOLLOW SPECIFIED PROCEDURES AND SHALL INCLUDE A WORKING SAMPLE SUITABLE FOR TABLE TOP EXAMINATION.
  - UNLESS OTHERWISE NOTED, MOUNT EXIT SIGN DIRECTLY ABOVE EGRESS DOOR (MAXIMUM 24" ABOVE DOOR). PROVIDE WALL MOUNT EXIT SIGNS IN HIGH CEILING AREAS. PROVIDE WINDOW MULLION MOUNTING WITH CONCEALED WIRING WHERE REQUIRED. COORDINATE EXACT ELEVATION WITH ARCHITECT PRIOR TO ROUGH-IN.

CONTACTOR SCHEDULE								REMARKS
DESIG-NATION	CIRCUITS SERVED	CONTACT AMPS	N.O. POLES	COIL VOLTS	CONTROL	SUPPLY CKT.		
C1	1HA-6	20	2	277	DDC	1HA-6	ASCO 918 REMOTE CONTROL SWITCH	①

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



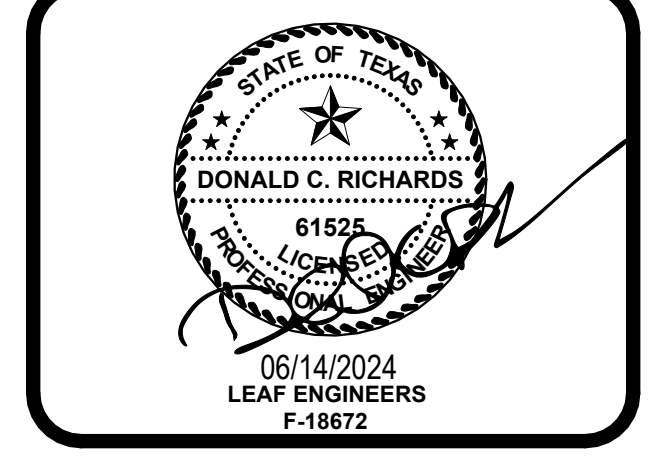
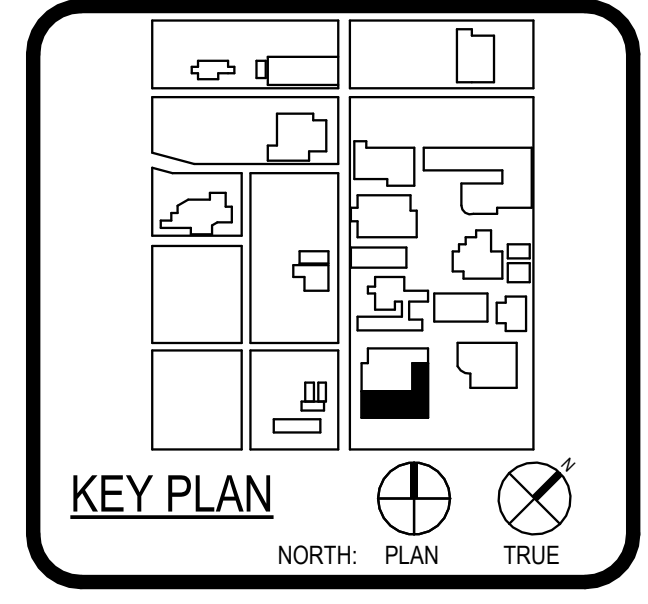
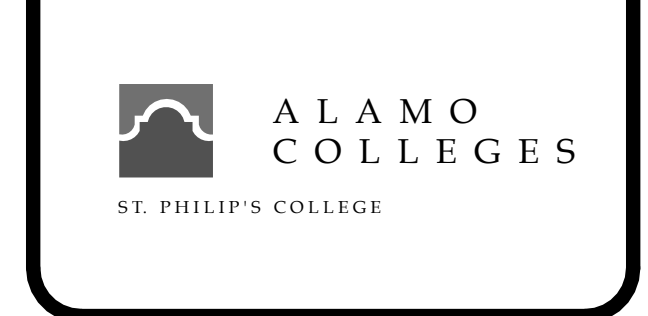
ARCHITECT	PBK Architects, Inc.
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**WFAC Black Box Addition PKG 1**

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

ISSUE FOR CONSTRUCTION



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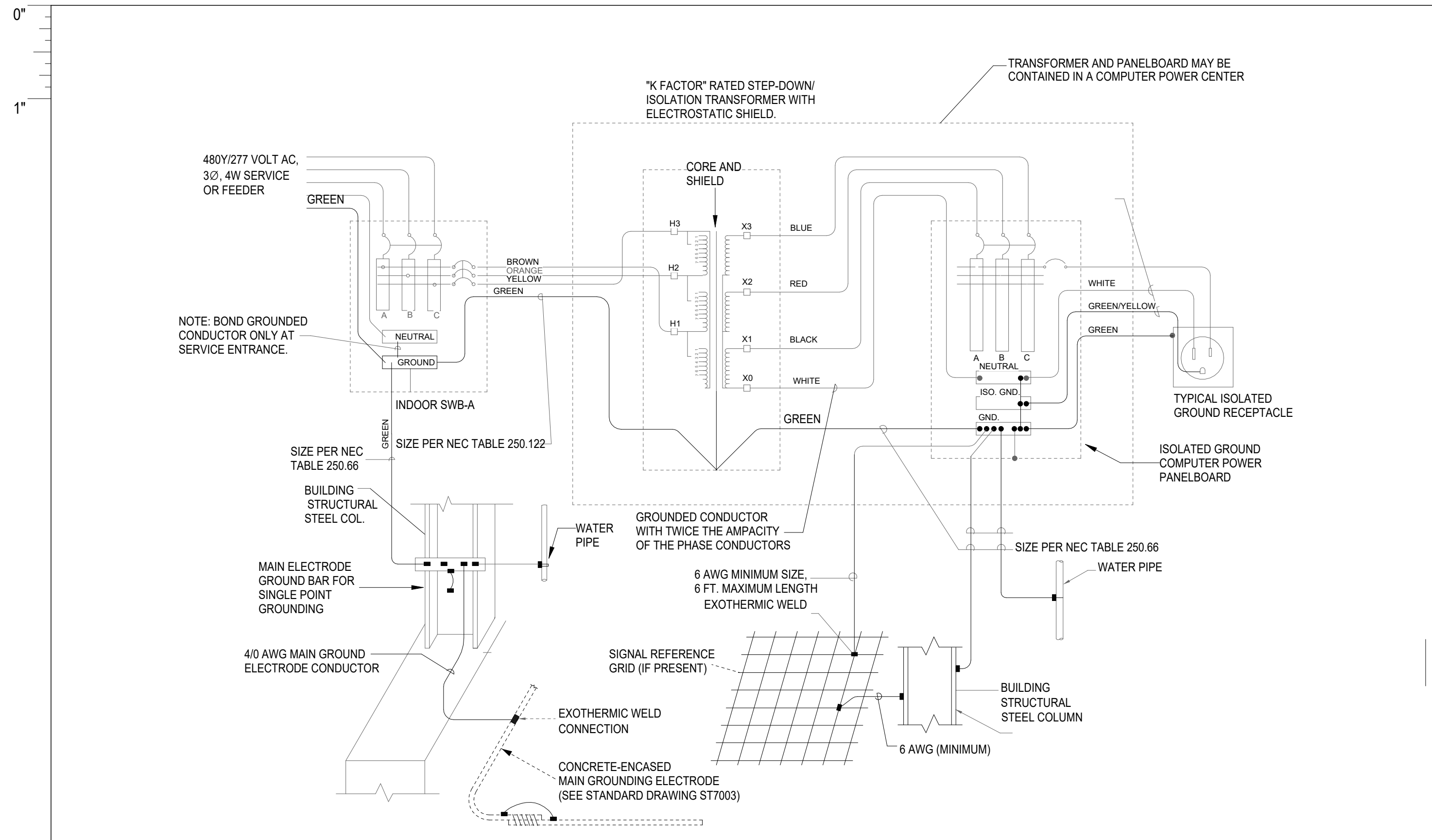
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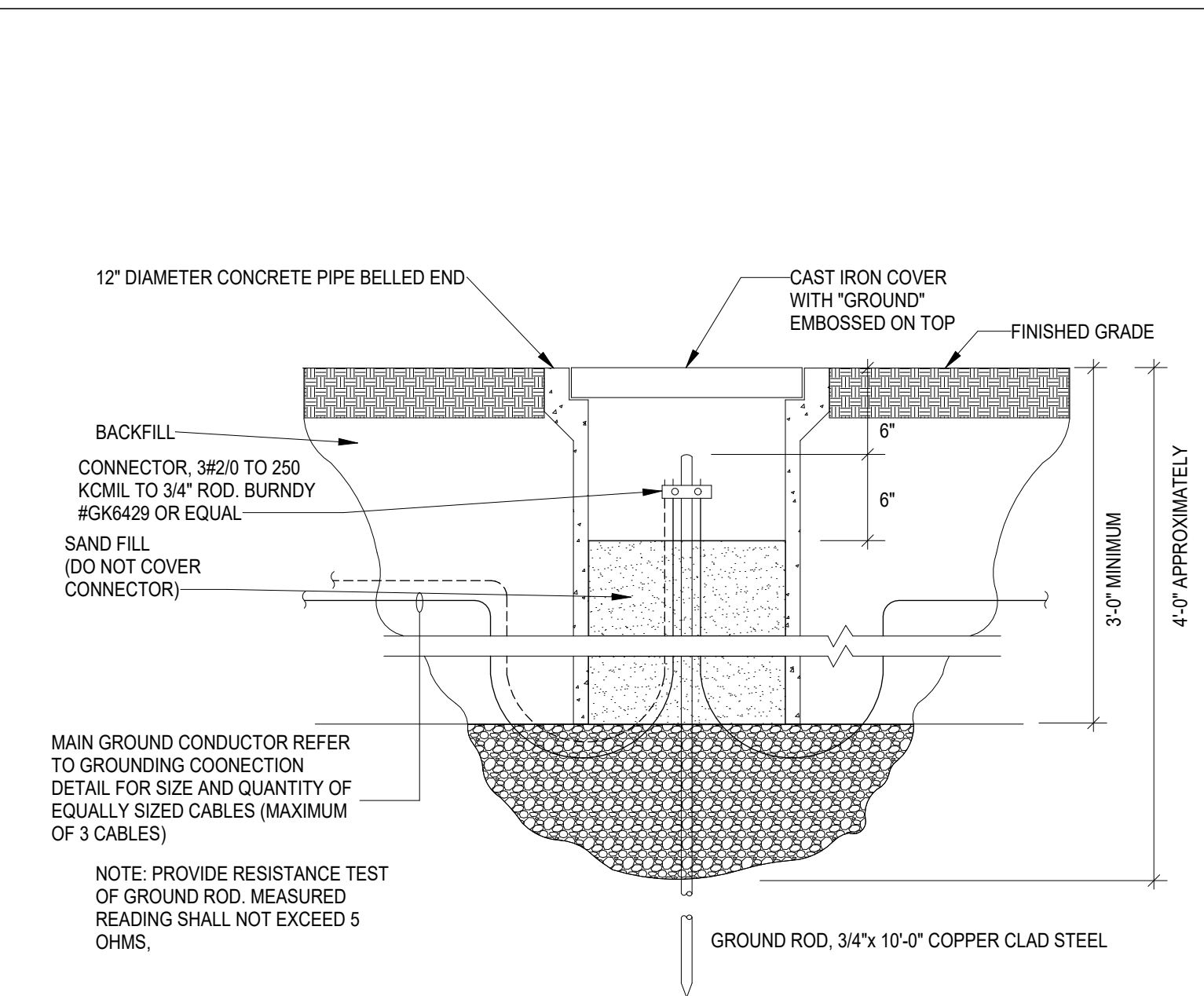
**ELECTRICAL SYMBOL LEGEND AND CONTACTOR SCHEDULE**







**2** ISOLATED GROUND DETAIL  
NOT TO SCALE



**3** GROUND WELL ASSEMBLY  
NOT TO SCALE

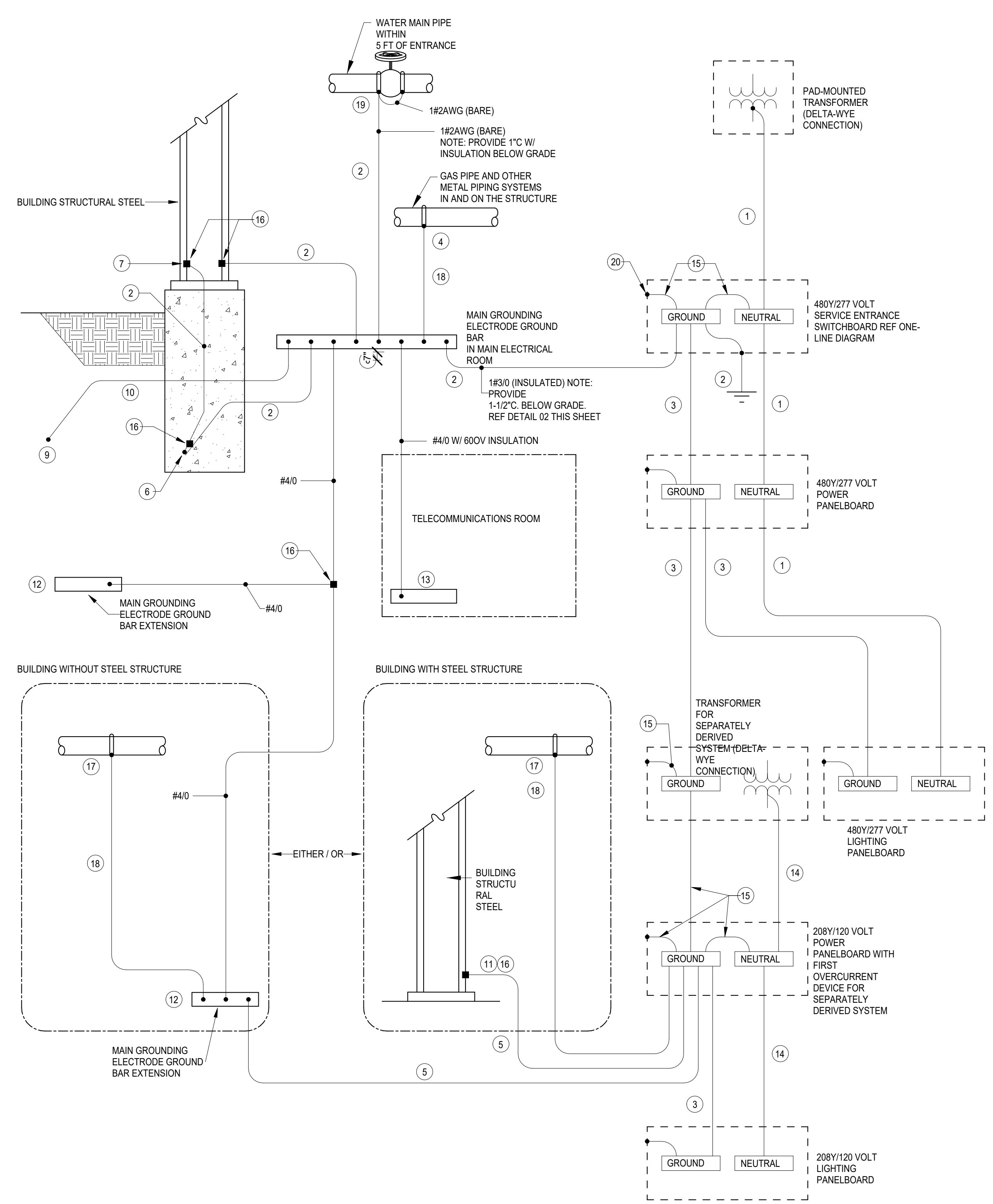
**GENERAL NOTES**

- 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 800 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.



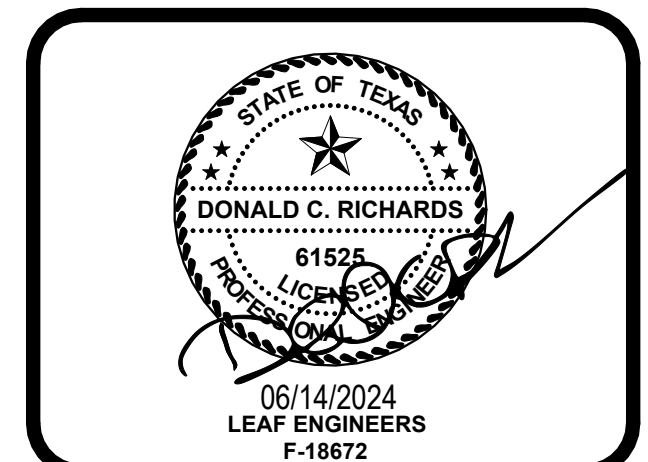
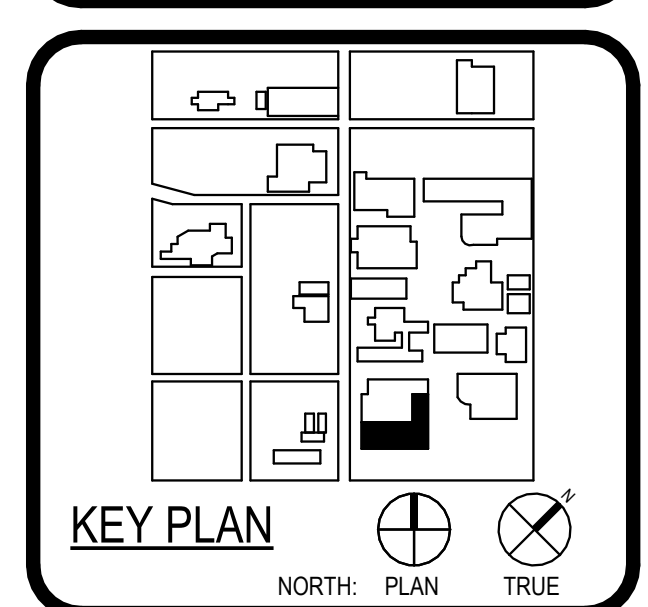
**1** GROUNDING CONNECTION DETAIL  
SCALE: NOT TO SCALE



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**LANDSCAPE ARCHITECT**  
 LUNY & FRANK ENGINEERING  
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**MECHANICAL ENGINEER**  
 MEAN PROFESSIONALS  
 12000 N. LOOP WEST  
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**MECHANICAL ENGINEER**  
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**WFAC Black Box Addition PKG 1**  
 1801 Marlin Luther King Dr.,  
 San Antonio, TX 78203  
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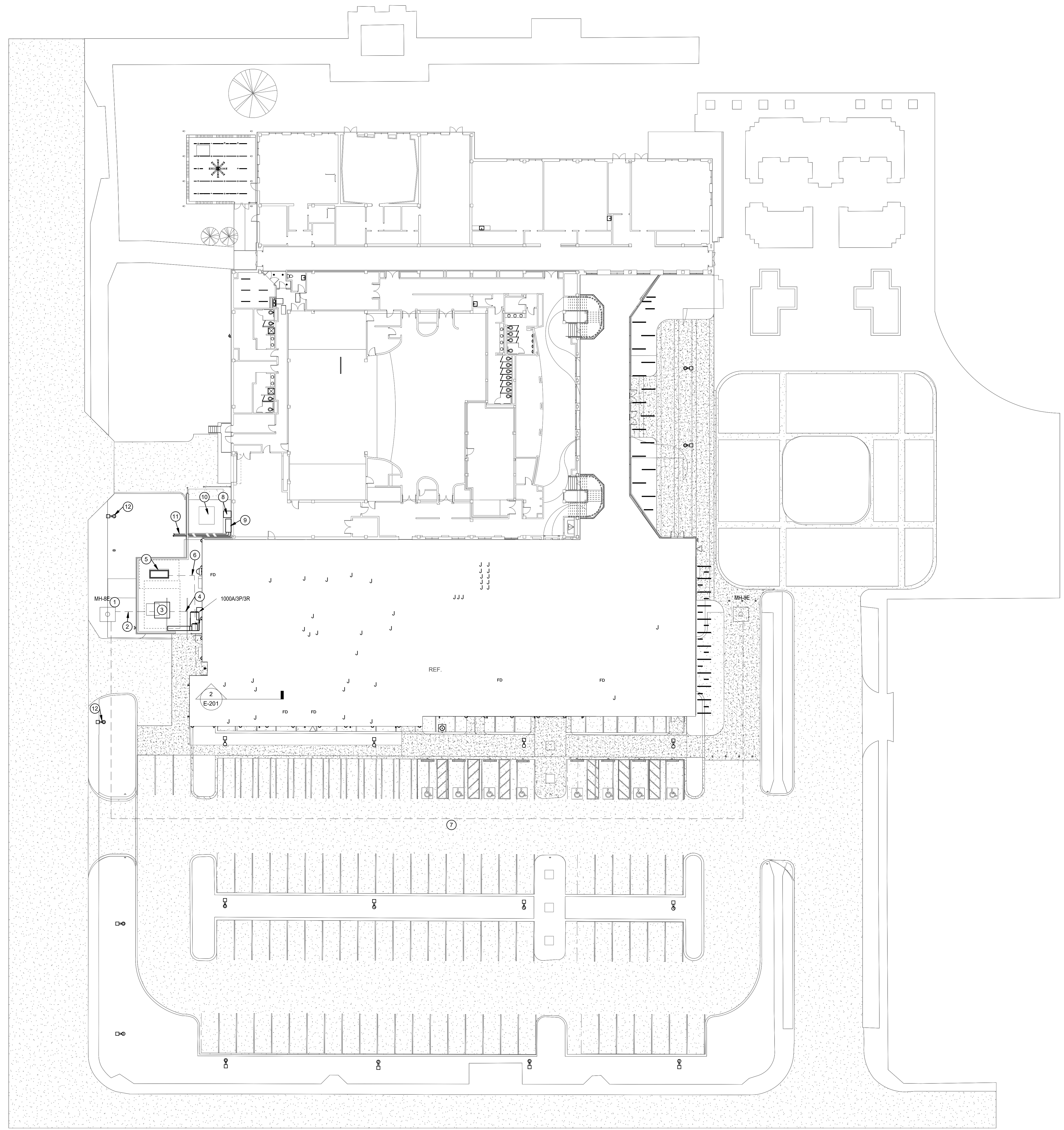
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**ISSUE FOR CONSTRUCTION**

BUILDING NUMBER 1

**ELECTRICAL DETAILS**

**E-603**



**SITE PLAN GENERAL NOTES:**

1. COORDINATE ROUTING FOR ALL UNDERGROUND ELECTRICAL BRANCH CIRCUITS AND FEEDERS WITH OTHER DISCIPLINES PRIOR TO TRENCHING.
2. UNLESS NOTED OTHERWISE ALL UNDERGROUND CONDUIT SHOWN ON THIS PLAN TO BE MINIMUM 1" IN SIZE.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES CAUSED BY INSTALLATION OF NEW WORK.

**SITE PLAN KEYED NOTES:**

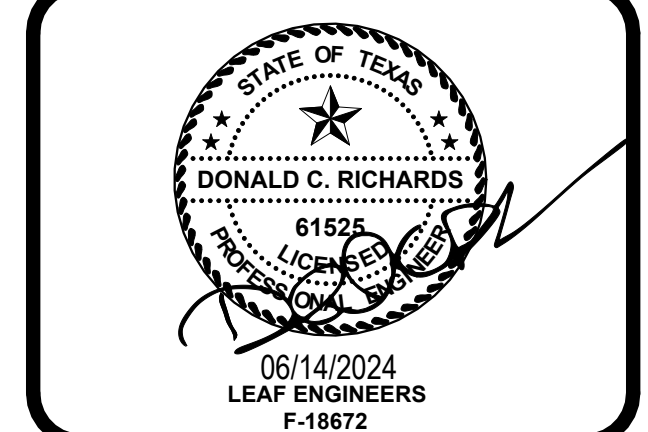
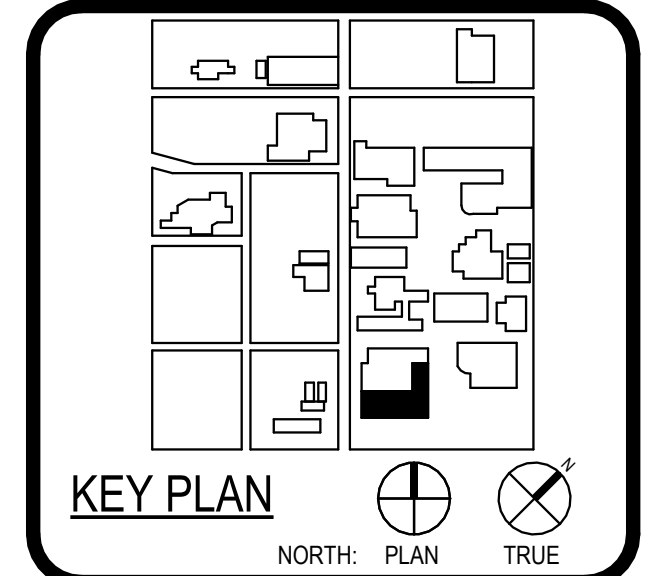
- 1 EXISTING ELECTRICAL MANHOLE.
- 2 NEW UNDERGROUND EASEMENT FOR NEW PRIMARY POWER FOR UTILITY TRANSFORMER. FIELD VERIFY THAT SPARE CAPACITY IS AVAILABLE.
- 3 NEW 480277V 750KVA TRANSFORMER SHALL BE PROVIDED FROM ALAMO COLLEGES. CONTRACTOR SHALL COORDINATE EXACT LOCATION WITH ARCHITECTURAL PLANS PROVIDE (1) 1 1/2" CONDUIT FOR POWER.
- 4 NEW UNDERGROUND ROUTE FOR SECONDARY TO MAIN SERVICE DISCONNECT. PROVIDE (2) 3" CONDUITS FOR POWER.
- 5 NEW 480277V, 40 KW CUMMINS MODEL NUMBER: C40 N6 FOR FIRE PUMP.
- 6 NEW UNDERGROUND PATHWAY FROM GENERATOR TO 2ND FLOOR ATS IN MEZZAINE.
- 7 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.
- 8 RELOCATED CONDENSING UNIT AND ASSOCIATED DISCONNECT. COORDINATE WITH MECHANICAL FOR EXACT LOCATION.
- 9 EXISTING DISTRIBUTION MAIN SERVICE DISCONNECT DP-6 FOR ADJACENT WATSON FINE ARTS BUILDING.
- 10 EXISTING UTILITY TRANSFORMER FOR WATSON FINE ARTS.
- 11 PROPOSED NEW PATHWAY FOR RELOCATED EXISTING CONDUITS FROM DP-6. CONTRACTOR SHALL VERIFY WHERE CONDUITS ARE FED TO.
- 12 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 TAG.



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LANDSCAPE ARCHITECT	LANDSCAPE 1111 N. LOOP WEST SUITE 1000 SAN ANTONIO, TX 78207 210-492-1000
MECHANICAL ENGINEER	LUNY & FRANK ENGINEERING 1111 N. LOOP WEST SUITE 1000 SAN ANTONIO, TX 78207 210-492-1000
ELECTRICAL ENGINEER	MEYER PROFESSIONALS 1111 N. LOOP WEST SUITE 1000 SAN ANTONIO, TX 78207 210-492-1000



**WFAC Black Box Addition PKG 1**  
 1801 Main Luther King Dr.,  
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ISSUE FOR CONSTRUCTION  
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**SITE POWER PLAN**

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

PLUMBING ABBREVIATION SCHEDULE			
(A)	ITEM NOTED TO BE ABANDONED	KW	KILOWATTS
(D)	ITEM NOTED TO BE DEMOLISHED	L	LAVATORY
(E)	EXISTING ITEM	MAP	MASTER ALARM PANEL
(N)	NEW ITEM	MECH	MECHANICAL
(R)	ITEM NOTED TO BE RELOCATED	MH	MANHOLE
AAP	AREA ALARM PANEL	MS	MOP SINK
AAV	AUTOMATIC AIR VENT	NC	NORMALLY CLOSED
AFF	ABOVE FINISHED FLOOR	NIC	NOT IN CONTRACT
AP	ACCESS PANEL	NO	NORMALLY OPEN
BFF	BELOW FINISHED FLOOR	OF / CI	OWNER FURNISHED / CONTRACTOR INSTALLED
BFP	BACKFLOW PREVENTER	OF / OI	OWNER FURNISHED / OWNER INSTALLED
BOB	BOTTOM OF BEAM	OD	OVERFLOW DRAIN
BOP	BOTTOM OF PIPE	PV	POST INDICATOR VALVE
BTUH	BRITISH THERMAL UNITS PER HOUR	PRV	PRESSURE REDUCING VALVE
C / C	CUT AND CAP	RD	ROOF DRAIN
CFH	CUBIC FEET PER HOUR	RE	REFER TO
CFS	CUBIC FEET PER SECOND	RIC	ROUGH-IN AND CONNECT
CI	CAST IRON	RO	REVERSE OSMOSIS
CLG	CEILING	RP BFP	REDUCED PRESSURE BACKFLOW PREVENTER
CO	CLEANOUT	RPM	REVOLUTIONS PER MINUTE
CONN	CONNECTION	RVB	REFRIGERATOR VALVE BOX
CONT	CONTINUATION	SD	STORM DRAIN
DF	DRINKING FOUNTAIN	SF	SQUARE FEET
DPV	DRY PIPE VALVE	SIA	SERVICE SINK
DWG	DRAWING	SK	SINK
EA	EACH	TMV	THERMOSTATIC MIXING VALVE
EDF	ELECTRIC DRINKING FOUNTAIN	TOP	TOP OF PIPE
FCO	FLOOR CLEANOUT	TP	TRAP PRIMER
FD	FLOOR DRAIN	TYP	TYPICAL
FDV	FIRE DEPARTMENT VALVE	U	URNAL
FF	FINISHED FLOOR	UF	UNDERFLOOR
FHC	FIRE HOSE CABINET	UIS	UNDERSLAB
FL	FLOW LINE	VB	VACUUM BREAKER
FS	FLOOR SINK	VCT	VITRIFIED CLAY TILE
FT	FEET	VTR	VENT THRU ROOF
FU	FIXTURE UNIT	WC	WATER CLOSET
GC	GENERAL CONTRACTOR	WCO	WALL CLEANOUT
GPH	GALLONS PER HOUR	WH	WALL HYDRANT
GPM	GALLONS PER MINUTE	WMB	WASHING MACHINE BOX
HB	HOSE BIBB	YH	YARD HYDRANT
HP	HORSEPOWER	ZV	ZONE VALVE
IE	INVERT ELEVATION		

NOTES:  
1. NOT ALL ABBREVIATIONS MAY BE USED ON THESE DRAWINGS.

PLUMBING SYMBOLS LEGEND			
DRAWINGS	DETAILS	ABV.	DESCRIPTION
		AV	ACID VENT
		AW	ACID WASTE
		CA	COMPRESSED AIR
		CW	COLD WATER
		(D)	DEMOLISHED PIPING OR EQUIPMENT
		D	CONDENSATE
		DSP	DRY SPRINKLER
		(E)	EXISTING PIPING OR EQUIPMENT
		F	FIRE
		G	NATURAL GAS
		GW	GREASE WASTE
		HW	HOT WATER
		HWR	HOT WATER RETURN
		OD	OVERFLOW DRAIN
		SD	STORM DRAIN
		SP	SPRINKLER
		SS	SANITARY SEWER
		V	VENT
			DIRECTION OF FLOW
			DROP IN PIPE
			RISE IN PIPE
			GATE VALVE
			BALL VALVE
			CHECK VALVE
			SUPERVISED VALVE WITH FLOW SWITCH
			PLUG VALVE / GAS COCK
			BUTTERFLY VALVE
			HOT WATER BALANCING VALVE
			PIPE UNION
			PRESSURE CONTROL VALVE
			3-WAY VALVE
			SOLENOID VALVE
			FLOW SWITCH
			PRESSURE GAUGE WITH GAUGE COCK
			THERMOMETER
		RD / ORD	ROOF DRAIN / OVERFLOW DRAIN
		FD	FLOOR DRAIN
		FS	FLOOR SINK
			T & P RELIEF VALVE
			STRAINER
		CO	END OF LINE CLEANOUT
		FCO	FLOOR CLEANOUT
		WCO	WALL CLEANOUT
			CAP
			FLEXIBLE CONNECTION
			NEW CONNECTION TO EXISTING PIPING

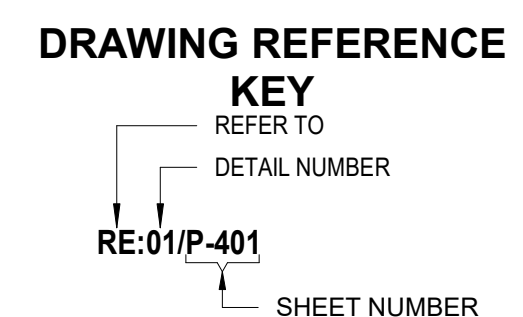
NOTES:  
1. NOT ALL SYMBOLS MAY BE USED ON THESE DRAWINGS.

PLUMBING PIPE MATERIAL SCHEDULE		
PIPING SYSTEM	BELOW GRADE	ABOVE GRADE
STORM WATER	SCH 40 PVC	CAST IRON
SANITARY WASTE	SCH 40 PVC	CAST IRON
DOMESTIC WATER	TYPE 'K' COPPER	TYPE 'L' COPPER
NATURAL GAS	POLYETHYLENE PIPE W/ SLEEVE UNDER SLAB	SCH 40 BLACK STEEL
FIRE PROTECTION	SCH 40 BLACK STEEL	SCH 40 BLACK STEEL
COMPRESSED AIR	TYPE 'K' COPPER	SCH 40 GALVANIZED STEEL

WATER HAMMER ARRESTER SCHEDULE		
PIPE SIZE	CROSS FIXTURE UNITS	PDI STD.
1/2"	1-11	"A"
3/4"	12-32	"B"
1"	33-60	"C"
1-1/4"	61-113	"D"
1-1/2"	114-154	"E"
2"	155-330	"F"

NOTES:  
1. AIR CHAMBERS OR SHOCK ARRESTORS SHALL BE PROVIDED TO ALL FIXTURE RUNOUT AND SHALL BE SIZED ACCORDING TO LOCAL PLUMBING CODE (HHS) & PDI. AIR CHAMBERS OR SHOCK ARRESTORS SHALL BE SIZED AND INSTALLED PER MANUFACTURER'S REQUIREMENTS. THE DEVICE SHALL HAVE LIFETIME WARRANTY AND BE INSTALLED WITHOUT REQUIRING ACCESS DOORS AND PANELS.

SLOPE OF HORIZONTAL DRAINAGE PIPE	
PIPE SIZE	MINIMUM SLOPE
2-1/2" OR LESS	1/4" PER FOOT
3" TO 6"	1/8" PER FOOT
8" OR LARGER	1/16" PER FOOT



PROJECT GENERAL NOTES

- ALL EQUIPMENT AND/OR SYSTEMS NOTED ON THE DRAWINGS TO REMAIN SHALL BE INSPECTED AND TESTED ON SITE TO CERTIFY WORKING CONDITION. A WRITTEN REPORT ON THE CONDITION OF ALL EQUIPMENT TO REMAIN, INCLUDING A COPY OF THE TEST RESULTS WITH RECOMMENDED REMEDIAL ACTIONS AND COSTS SHALL BE MADE BY THIS CONTRACTOR TO THE ARCHITECT/ENGINEER FOR REVIEW.
- THE PLUMBING WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE APPLICABLE CODES AS WELL AS ALL LOCAL REGULATIONS THAT MAY APPLY. IN CASE OF CONFLICT BETWEEN THE CONTRACT DOCUMENTS AND A GOVERNING CODE OR ORDINANCE, THE MORE STRINGENT STANDARD SHALL APPLY.
- ALL PLUMBING WORK SHALL BE COORDINATED WITH ALL OTHER TRADES BEFORE PROCEEDING WITH THE INSTALLATION.
- INVERT ELEVATIONS AND EXACT LOCATIONS OF ALL EXISTING UTILITIES SHALL BE CHECKED BEFORE PROCEEDING WITH NEW WORK.
- NO CHANGES ARE TO BE MADE IN PLUMBING LAYOUT WITHOUT WRITTEN PERMISSION BY THE ARCHITECT OR ENGINEER.
- NO PIPING SHALL RUN EXPOSED IN FINISHED AREAS.
- ROUGH-IN DIMENSIONS OF TOILET FIXTURES MUST BE COORDINATED WITH THE GENERAL CONTRACTOR.
- PROVIDE SHUT-OFF VALVES FOR WATER HEATER BRANCH. PROVIDE DIELECTRIC FITTINGS OR COUPLINGS WHEREVER DISSIMILAR METALS ARE IN CONTACT.
- PROVIDE SHUT-OFF VALVES AT EACH FIXTURE AND AT EACH FLOOR (IF FIXTURES ARE STACKED) ON HOT AND COLD WATER SUPPLY PIPES.
- ALL ACCESS PANELS SHALL BE BY GENERAL CONTRACTOR. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR THEIR LOCATION.
- INSTALL ALL REQUIRED CLEANOUTS TO CLEAR EQUIPMENT AND FIXTURES.
- ALL WORK SHALL BE PROPERLY TESTED, BALANCED, CLEANED AND DISINFECTED. PROVIDE A ONE YEAR WARRANTY FROM DATE OF FINAL INSPECTION ON ALL PARTS AND LABOR.
- PITCH ALL WASTE AND SOIL PIPING AT MAXIMUM SLOPE POSSIBLE, BUT NOT LESS THAN 1/4" PER FOOT FOR PIPING UNDER 3" AND NO LESS THAN 1/8" PER FOOT FOR PIPING 3" AND GREATER. 6" AND LARGER PIPING CAN BE SLOPED AT 1/16" PER FOOT.
- PROVIDE ALL PIPE OPENINGS THROUGH PARTITIONS WITH PIPE SLEEVES WHERE PENETRATING FIRE RATED PARTITIONS. THE SPACE BETWEEN THE PIPE AND THE SLEEVE SHALL BE SEALED WITH FIRE STOPPING MATERIAL.
- PROVIDE CONDENSATE DRAIN FROM ROOF MOUNTED EQUIPMENT TO OPEN SITE DRAIN OR AS SHOWN ON DRAWINGS.
- ALL PIPING MATERIAL SHALL BE OF DOMESTIC MANUFACTURE AND SHALL COMPLY WITH THE BUY AMERICAN ACT.

PLUMBING TESTING NOTES

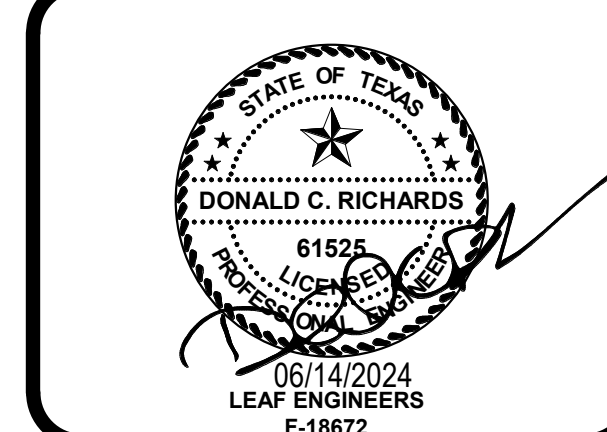
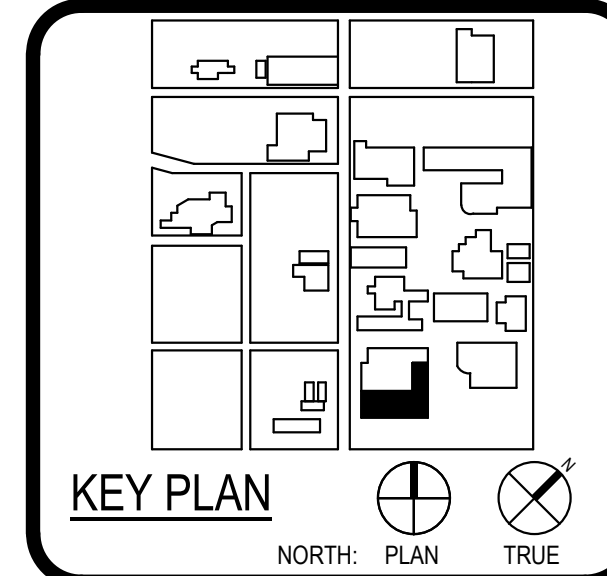
- ALL EQUIPMENT AND/OR SYSTEMS NOTED ON THE DRAWINGS TO REMAIN SHALL BE INSPECTED AND TESTED ON SITE TO CERTIFY WORKING CONDITION. A WRITTEN REPORT ON THE CONDITION OF ALL EQUIPMENT TO REMAIN, INCLUDING A COPY OF THE TEST RESULTS WITH RECOMMENDED REMEDIAL ACTIONS AND COSTS SHALL BE MADE BY THIS CONTRACTOR TO THE ARCHITECT/ENGINEER FOR REVIEW.
- PIPE COVER AND BACKFILLING:
  - AFTER HYDROSTATIC TEST, EVENLY BACKFILL ENTIRE TRENCH WIDTH BY HAND PLACING BACKFILL MATERIAL AND HAND TAMPING IN FOUR (4) INCHES COMPACTED LAYERS TO TWELVE (12) INCHES MINIMUM COVER OVER TOP OF JACKET. COMPACT TO 95 PERCENT MAXIMUM DENSITY.
  - EVENLY AND CONTINUOUSLY BACKFILL REMAINING TRENCH DEPTH IN UNIFORM LAYERS WITH BACKFILL MATERIAL.
  - DO NOT USE WHEELED OR TRACKED VEHICLES FOR TAMPING.
- PRESSURE TEST ALL DOMESTIC WATER PIPING AFTER INSTALLATION AND PRIOR TO BACKFILL OR COVER UP. RINSE PIPING SYSTEM OF PARTICULATE CONTAMINANTS, CAP AND SUBJECT TO STATIC WATER PRESSURE OF 125 PSIG FOR FOUR (4) HOURS. REPAIR LEAKS AND DEFECTS AND RE-TEST ANY PORTION OF PIPING SYSTEM THAT FAILS. PROVIDE WRITTEN TEST REPORT INCLUDING DATE AND TIME OF TEST, PASS OR FAIL INDICATION, SUMMARY OF REMEDIAL WORK REQUIRED AND DATE AND TIME OF EACH RE-TEST.
- PRIOR TO COVER UP, WATER PIPE, SANITARY PIPE, AND GAS PIPING SHALL BE PRESSURE TESTED. TESTS SHALL BE WITNESSED BY CONSULTANT AND OWNER. NOTIFY OWNER 48 HOURS PRIOR TO TEST. TEST SHALL BE WITNESSED BY CLIENT PLUMBING TECHNICIAN.
- UPON COMPLETION OF THE SANITARY PIPING SYSTEM, THE CONTRACTOR SHALL NOTIFY ENGINEER AND OWNER TO OBSERVE A SMOKE TEST OF THE SYSTEM. SMOKE TESTING SHALL BE PERFORMED ON SANITARY PIPING SYSTEM TWICE DURING CONSTRUCTION.
- ACID WASTE PIPING SYSTEMS:
  - WATER TEST SHALL BE APPLIED TO THESE DRAINAGE SYSTEMS EITHER IN THEIR ENTIRETY OR IN SECTIONS AS REQUIRED, AFTER ROUGH PIPING HAS BEEN INSTALLED. IF THE SYSTEM IS TESTED IN SECTIONS, EACH OPENING SHALL BE TIGHTLY CLOSED EXCEPT THE HIGHEST OPENING IN THE SECTION UNDER TEST. ALL SECTIONS SHALL BE TESTED WITH A MINIMUM OF 10 FEET HEAD OF WATER. IN TESTING SUCCESSIVE SECTIONS AT LEAST THE UPPER 10 FEET OF THE NEXT PRECEDING SECTION SHALL BE TESTED SO THAT NO JOINT OF PIPING IN THE BUILDING EXCEPT THE UPPERMOST 10 FEET OF THE SYSTEM SHALL BE SUBMITTED TO A TEST OF LESS THAN 10 FEET OF HEAD OF WATER. THE WATER SHALL BE KEPT IN THE SYSTEM FOR AT LEAST 30 MINUTES BEFORE INSPECTION STARTS. THE SYSTEM SHALL THEN BE MADE TIGHT AT ALL POINTS.
  - ANY POINTS OF THE DRAINAGE SYSTEMS TO BE TESTED WITH AIR INSTEAD OF WATER SHALL BE MADE BY ATTACHING AN AIR COMPRESSOR TESTING APPARATUS TO ANY SUITABLE OPENING AND AFTER CLOSING ALL OTHER INLETS OR OUTLETS, FORCING AIR INTO THE SYSTEM UNTIL THERE IS A MINIMUM GAUGE PRESSURE OF 5 PSI. THIS PRESSURE SHALL BE HELD WITHOUT THE INTRODUCTION OF ADDITIONAL AIR FOR A PERIOD OF AT LEAST 30 MINUTES.
  - EXTERIOR CONNECTIONS SHALL BE TESTED AS PART OF THE INTERIOR SYSTEMS.
  - ADDITIONAL TESTS:
    - PROVIDE ALL ADDITIONAL TESTS SUCH AS SMOKE OR PRESSURE TESTS AS REQUIRED BY THE REGULATIONS OR AS DIRECTED BY AUTHORITIES MAKING THE INSPECTION.
    - PROVIDE FOR ANY REPEATED TEST AS DIRECTED BY THE OWNER'S REPRESENTATIVE, TO MAKE ALL SYSTEMS TIGHT AS REQUIRED.
    - VISUAL INSPECTIONS OF JOINTS, VALVES, ETC. SHALL BE MADE AS DIRECTED BY THE ENGINEER.
    - PRESSURE TEST NATURAL GAS PIPING IN ACCORDANCE WITH NFPA 54. PRESSURE TEST PRIOR TO BACKFILL, MINIMUM 50 PSI FOR 24 HOURS.



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 1111 N. LOOP WEST SUITE 1000 DALLAS, TEXAS 75202 214-760-0992
ARCHITECT	LANDSCAPE 1111 N. LOOP WEST SUITE 1000 DALLAS, TEXAS 75202 214-760-0992
ARCHITECT	LEAF ENGINEERS 1801 Main St, Lumber King Dr., San Antonio, TX 78203
ARCHITECT	ALAMO COLLEGES ST. PHILLIP'S COLLEGE



WFAC Black Box Addition PKG 1



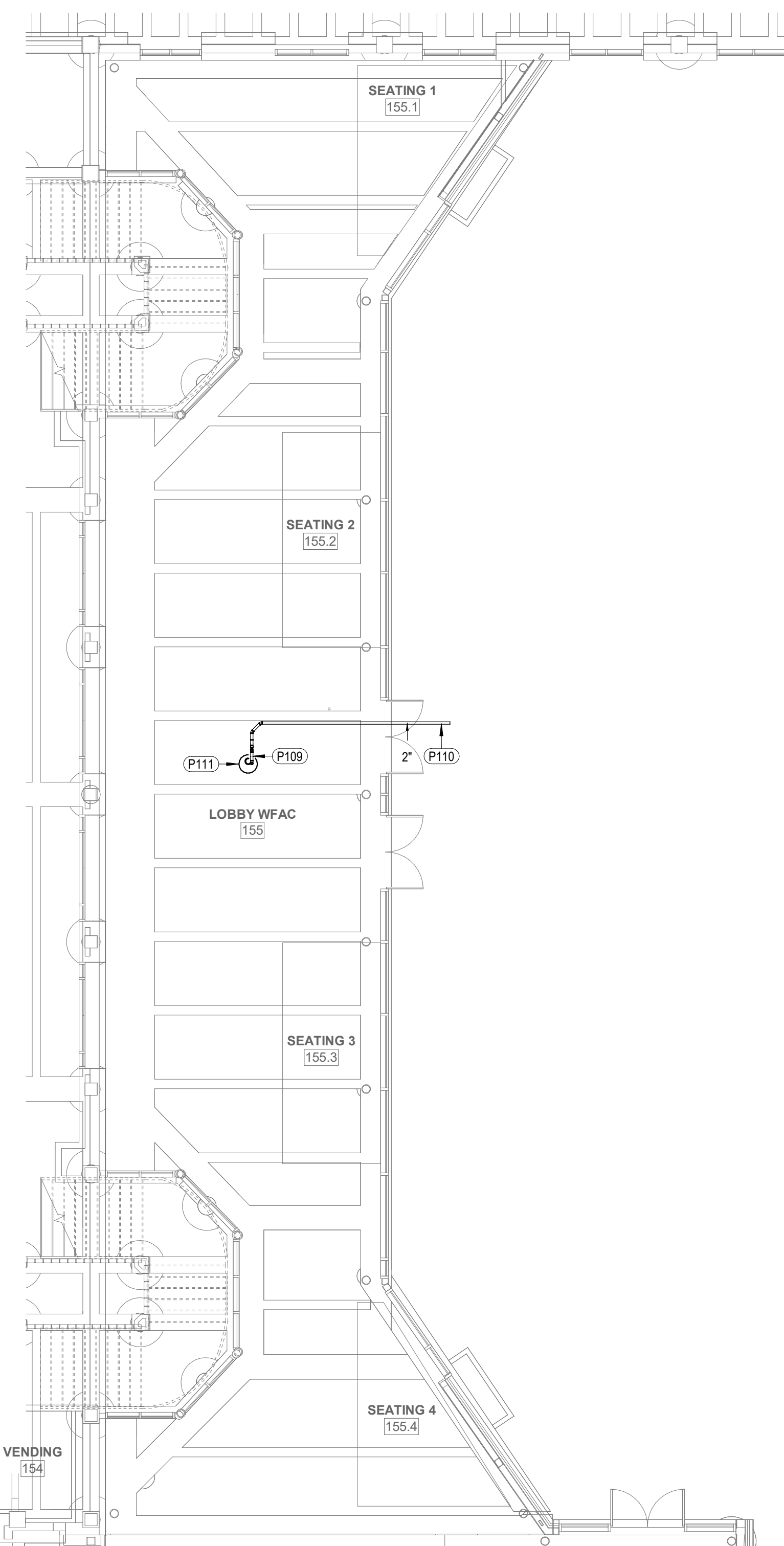
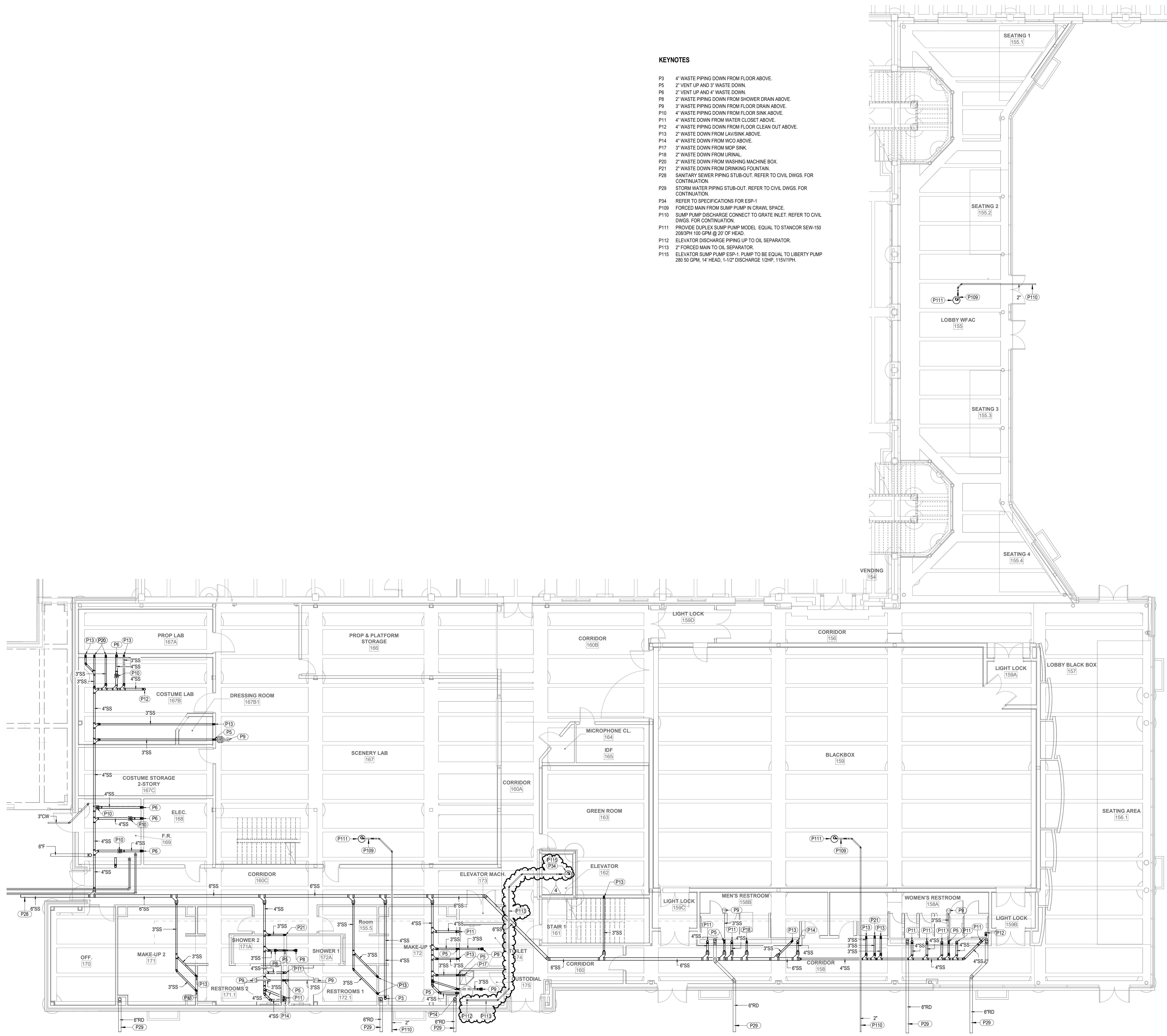
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DATE	06/14/2024	
PROJECT NUMBER	230462	
DRAWING HISTORY		
No.	Description	Date

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SYMBOLS AND ABBREVIATIONS

**KEYNOTES**

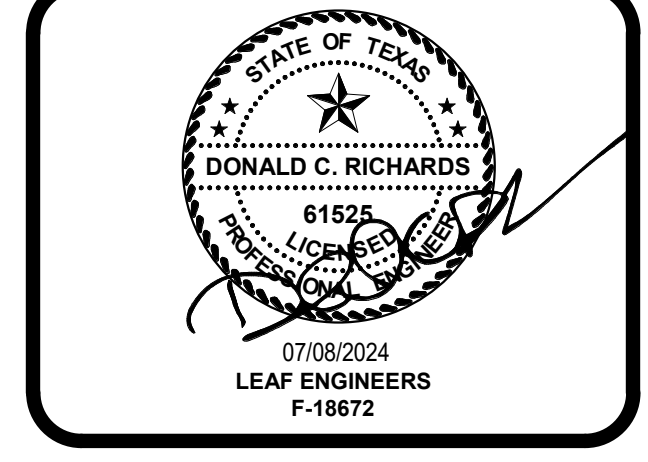
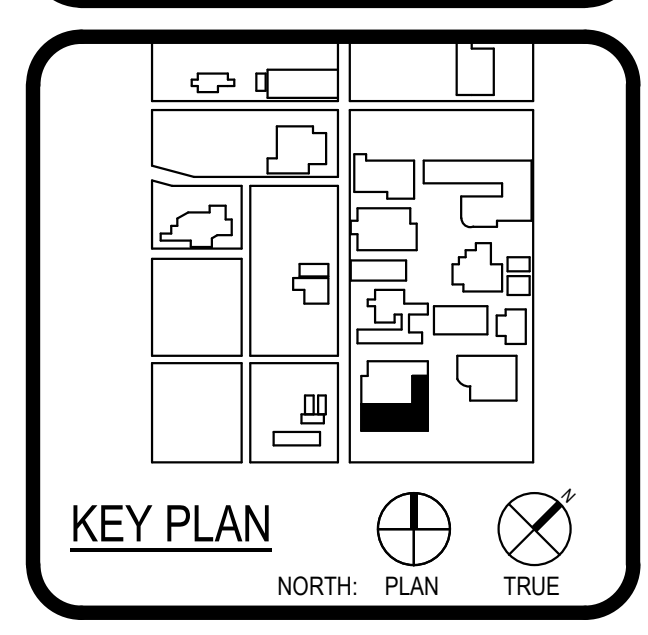
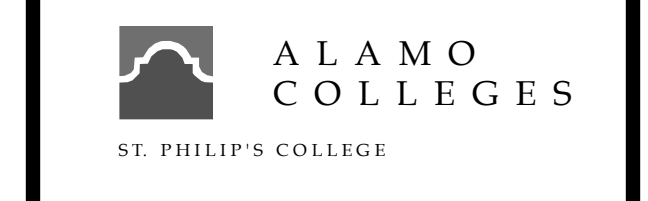
- P3 4" WASTE PIPING DOWN FROM FLOOR ABOVE.
- P5 2" VENT UP AND 3" WASTE DOWN.
- P6 2" VENT UP AND 4" WASTE DOWN.
- P8 2" WASTE PIPING DOWN FROM SHOWER DRAIN ABOVE.
- P9 3" WASTE PIPING DOWN FROM FLOOR DRAIN ABOVE.
- P10 4" WASTE PIPING DOWN FROM FLOOR SINK ABOVE.
- P11 4" WASTE DOWN FROM WATER CLOSET 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.  
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 ASSOCIATE ARCHITECT  
 DONALD C. RICHARDS  
 6152  
 07/08/2024  
 LEAF ENGINEERS  
 F-18672



WFAC Black Box Addition PKG 1  
 1801 Main, Luther King Dr.,  
 San Antonio, TX 78203  
 90%CD - IFR



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

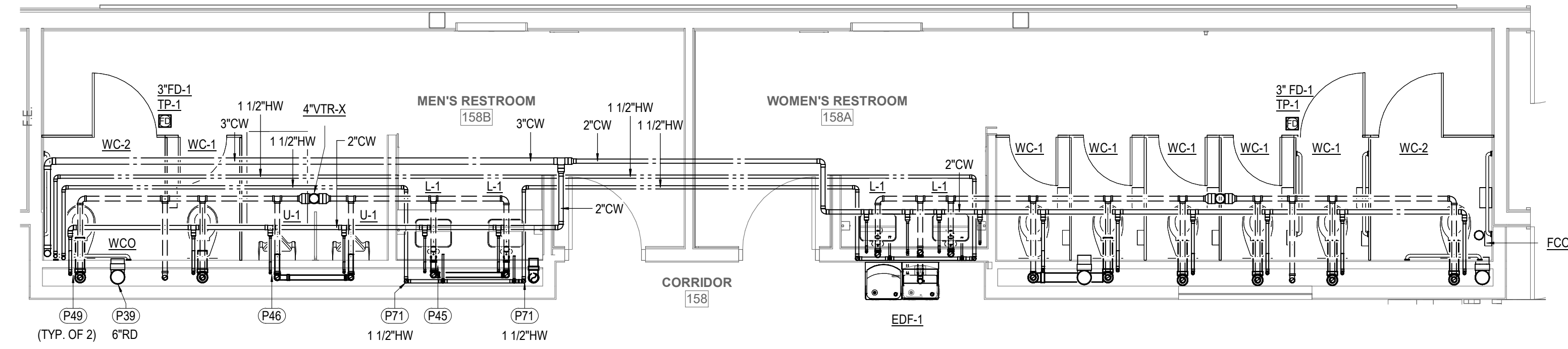
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 BUILDING NUMBER 1

**CRAWLSPACE PLUMBING PLAN**

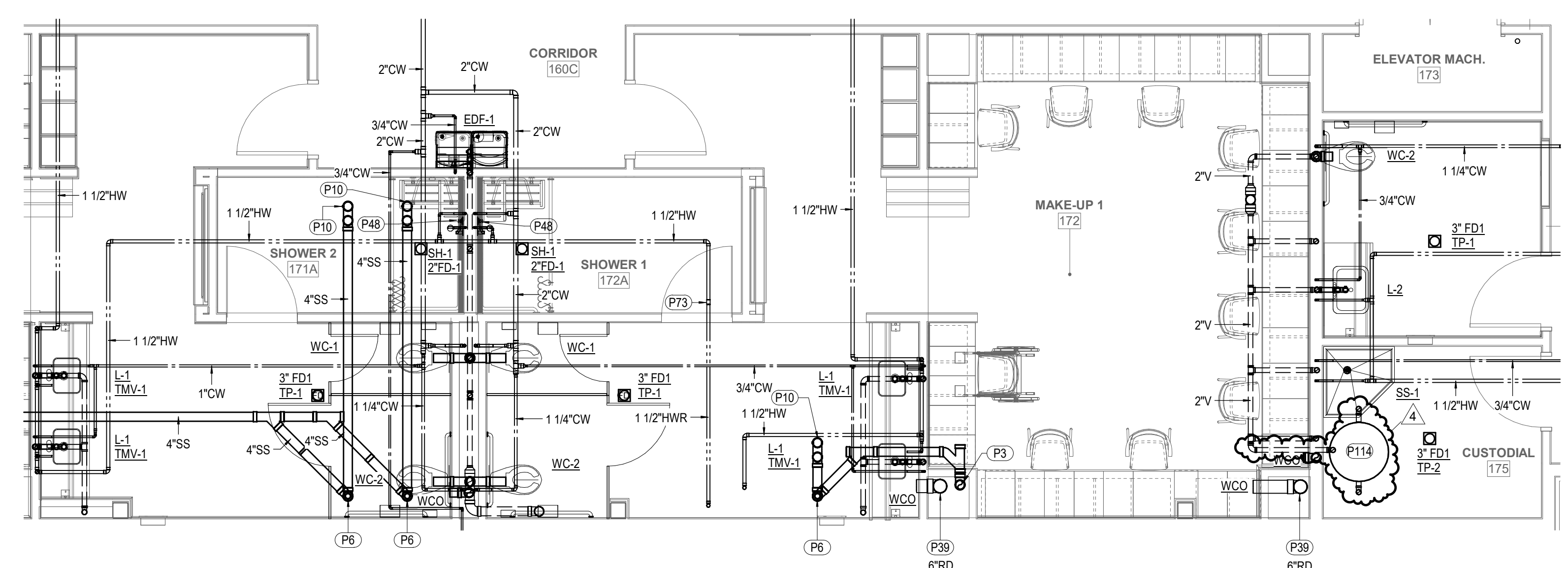
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**1** 1ST LEVEL ENLARGED PLUMBING PLAN - AREA C  
SCALE: 1/4" = 1'-0"



**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.

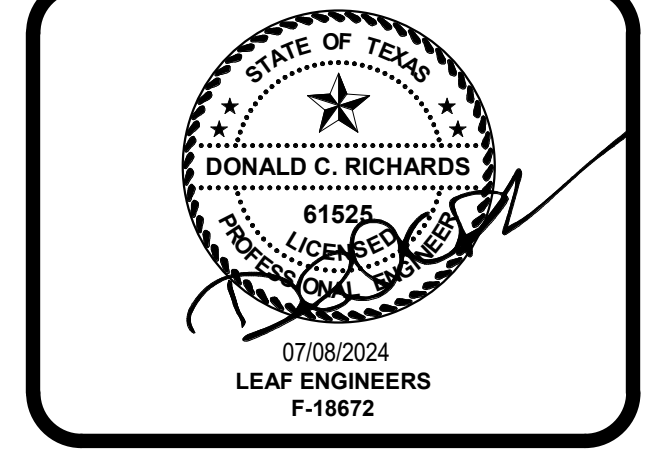
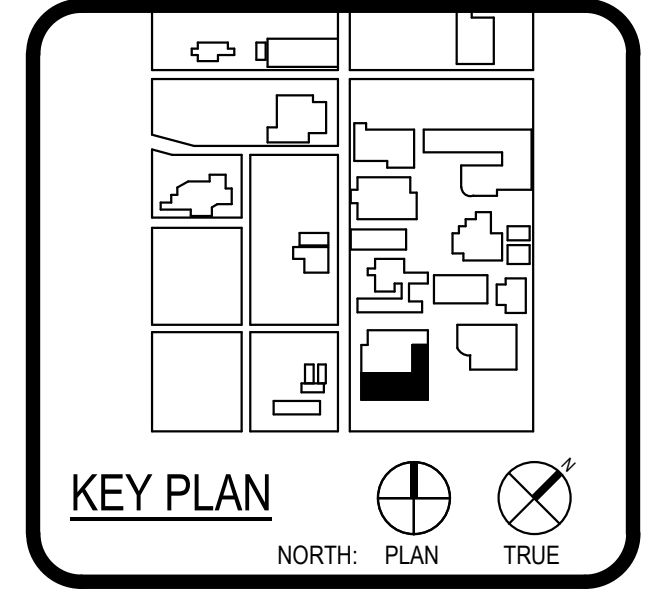
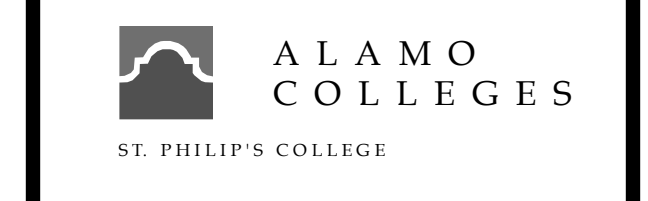


ARCHITECT	PBK Architects, Inc.
SAN ANTONIO 601 N. W. Loop 410, Suite 400 San Antonio, TX 78216 210-829-0123 P TX Firm SR 1659	
ASSOCIATE ARCHITECT	KEVIN MCGEE 1710-551-1814
DESIGNER	KEVIN MCGEE 1710-551-1814
ENGINEER	LEAF ENGINEERS 1710-551-1814
MECHANICAL ENGINEER	LEAF ENGINEERS 1710-551-1814
ELECTRICAL ENGINEER	LEAF ENGINEERS 1710-551-1814
PLUMBING ENGINEER	LEAF ENGINEERS 1710-551-1814
MECHANICAL PROFESSIONALS	LEAF ENGINEERS 1710-551-1814
ELECTRICAL PROFESSIONALS	LEAF ENGINEERS 1710-551-1814
PLUMBING PROFESSIONALS	LEAF ENGINEERS 1710-551-1814



WFAC Black Box Addition PKG 1

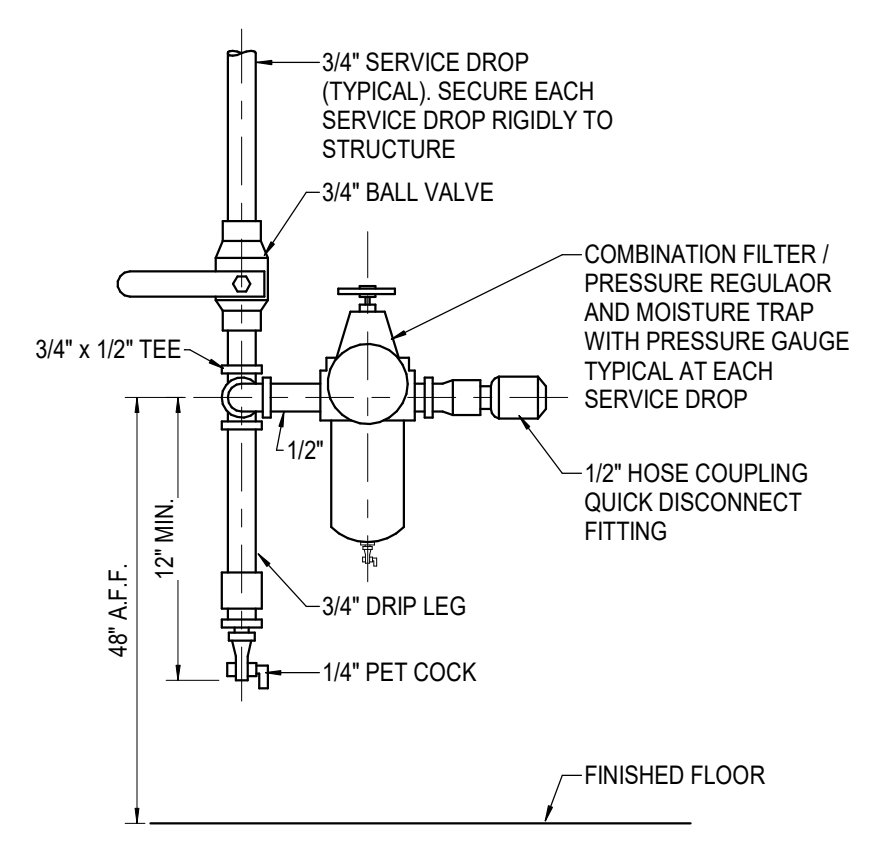
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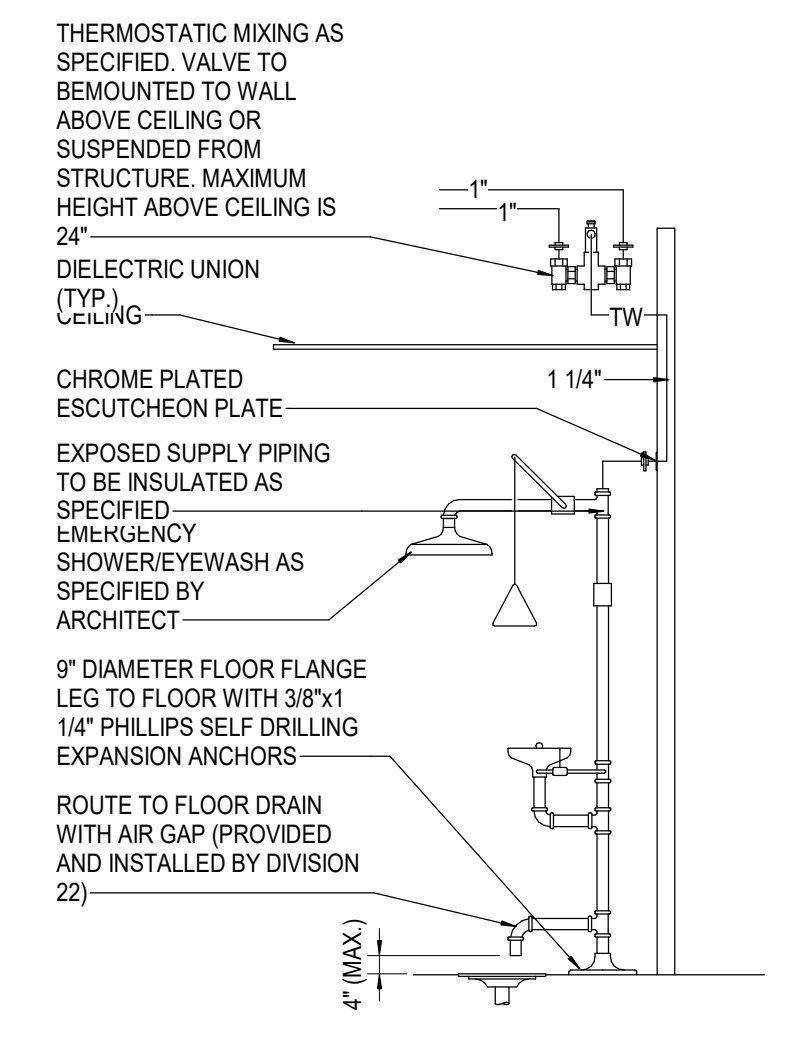
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DATE	07/08/2024	PROJECT NUMBER
DRAWING HISTORY		230462
No.	Description	Date
4	CITY COMMENTS	07/08/2024
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**PLUMBING ENLARGED PLAN**

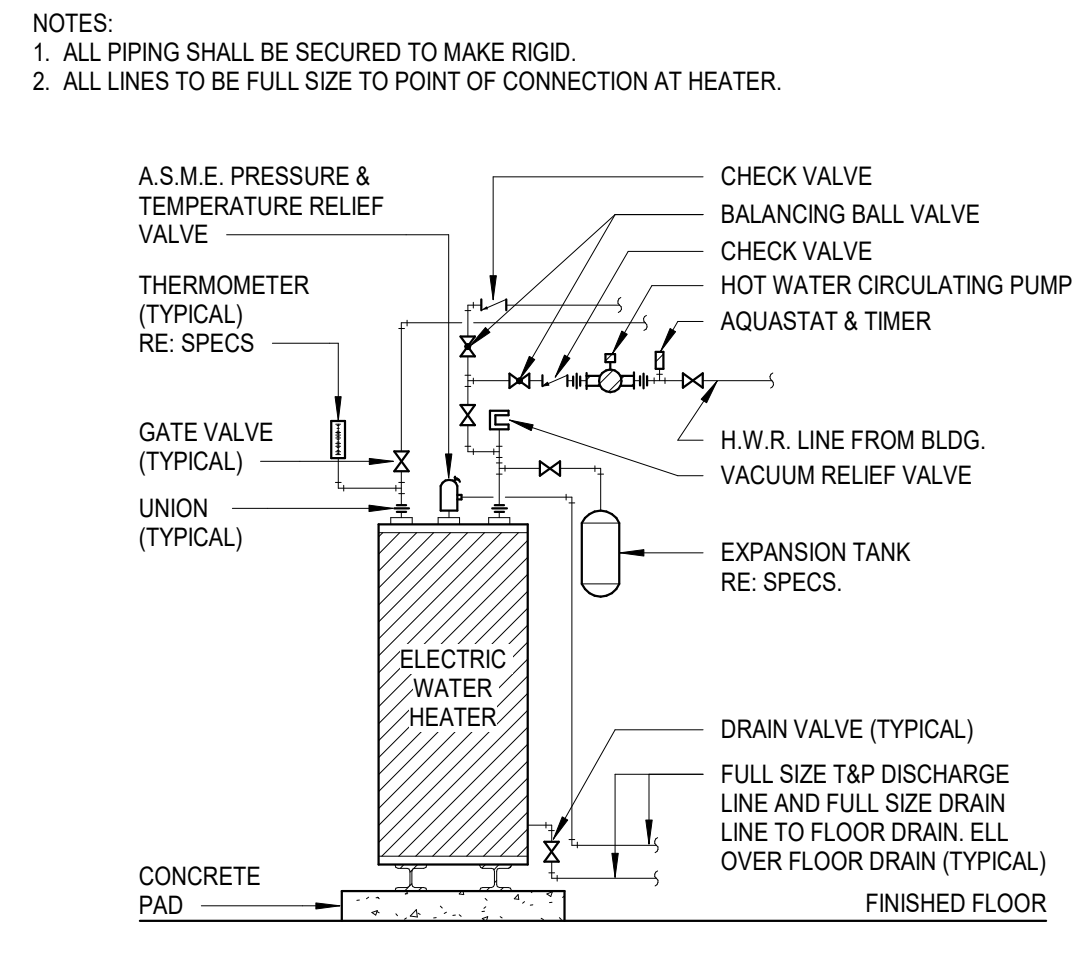
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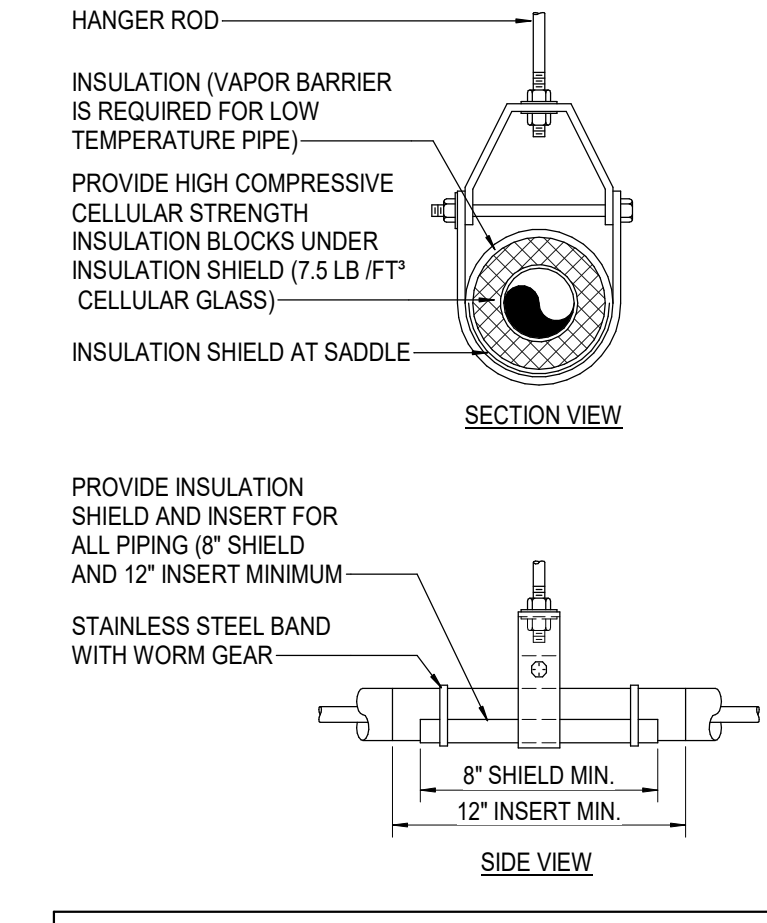
**10 COMPRESSED AIR OUTLET DETAIL**  
SCALE: NOT TO SCALE



**7 EMERGENCY SHOWER/EYEWASH DETAIL**  
SCALE: NOT TO SCALE



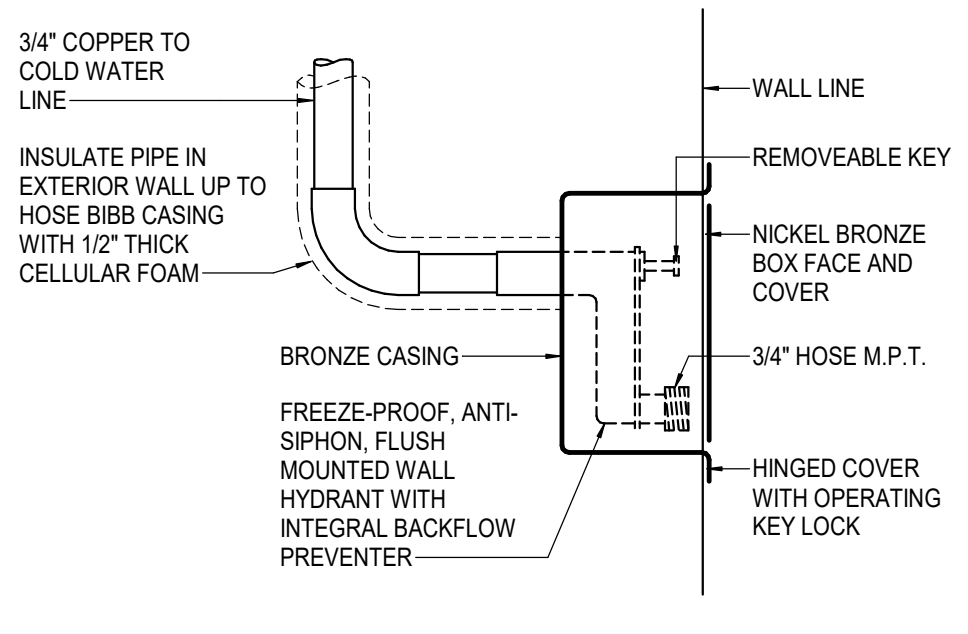
**4 ELECTRIC WATER HEATER PIPING**  
SCALE: N.T.S.



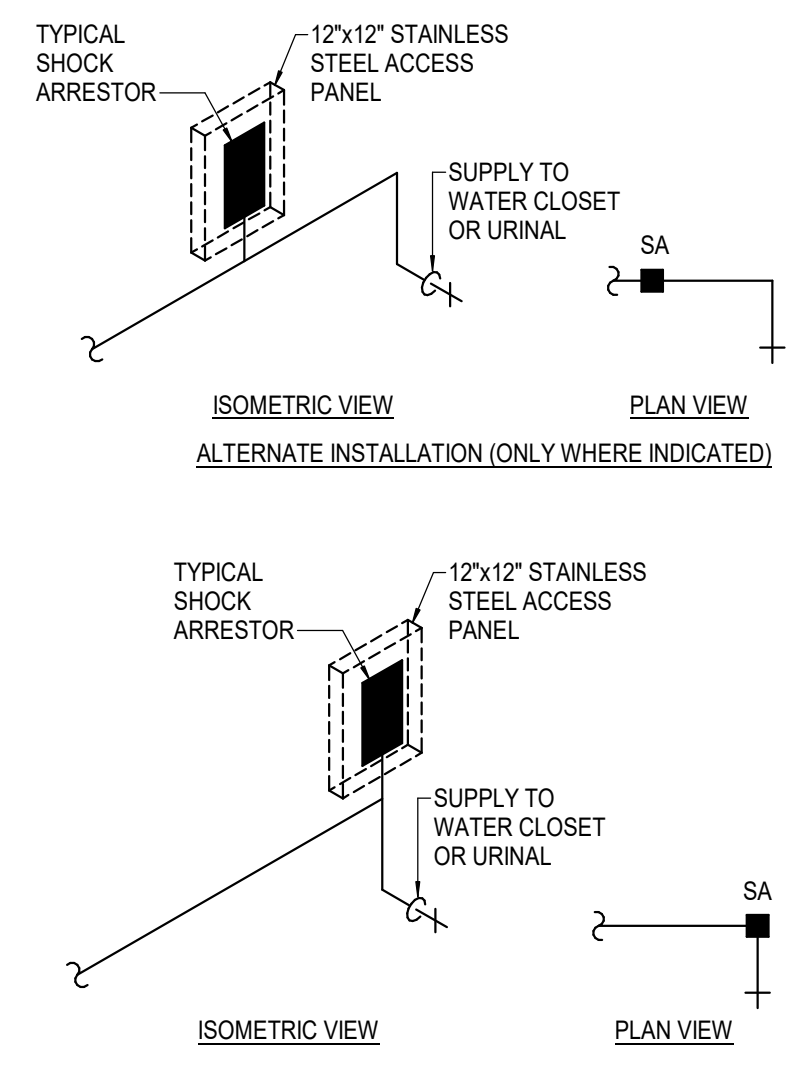
**1 ADJUSTABLE CLEVIS PIPE HANGER DETAIL**  
SCALE: NOT TO SCALE

MAXIMUM PIPING / TUBING SUPPORT SPACING																	
NOM. SIZE	3/4"	1"	1 1/4"	1 1/2"	2"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"
PIPING	7"	7"	7"	9"	10"	10"	10"	10"	10"	10"	10"	10"	10"	10"	10"	10"	10"
TUBING	5"	6"	6"	6"	8"	8"	8"	8"	8"	8"	8"	8"	8"	8"	8"	8"	8"

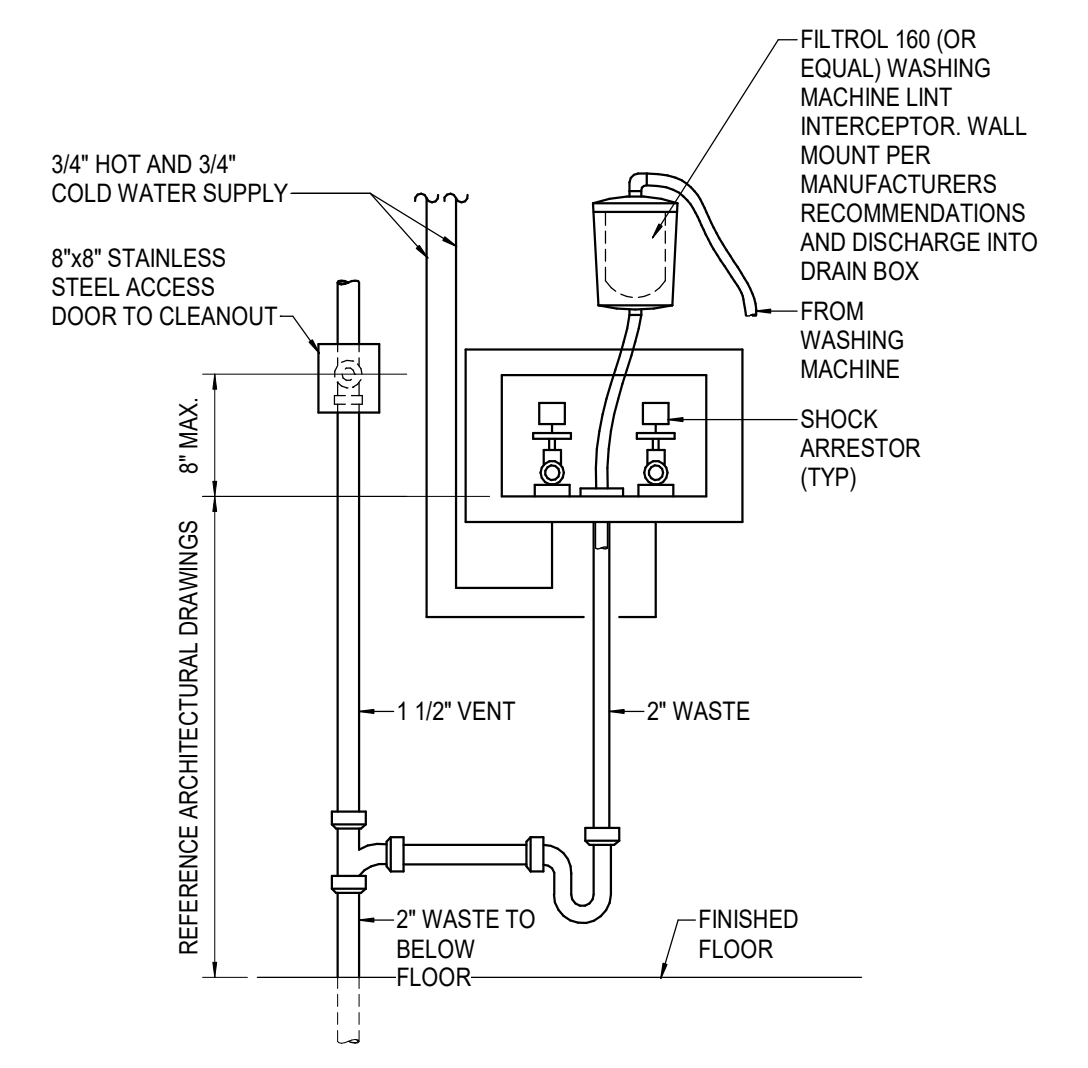
NOTE: FOR TRAPEZE HANGER TAKE SPACING OF SMALLEST SIZE ON TRAPEZE.



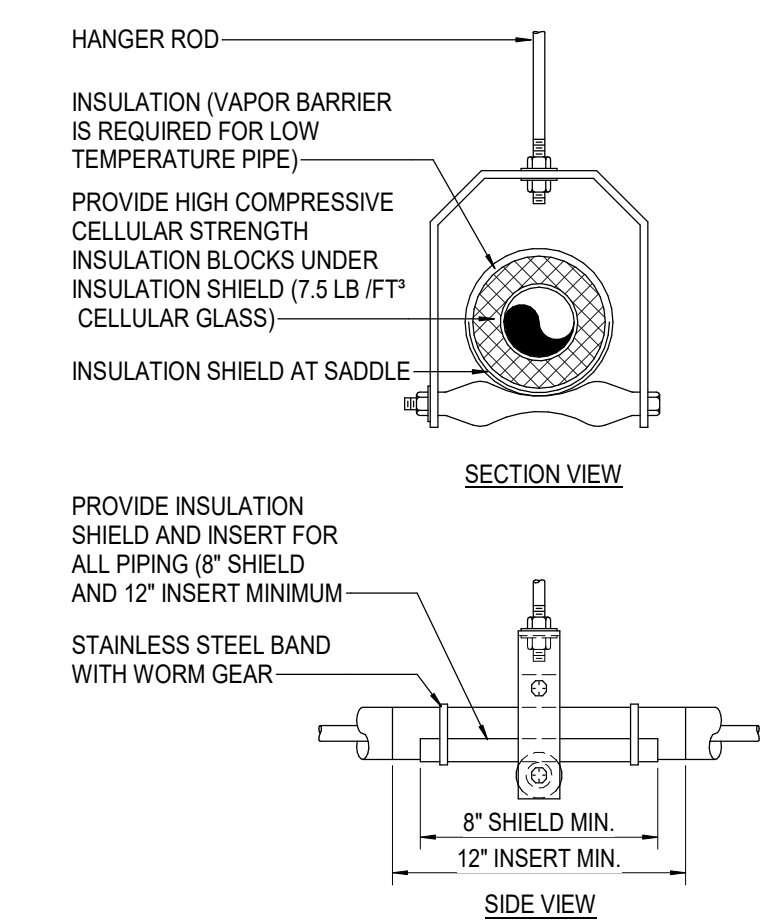
**11 WALL HYDRANT DETAIL**  
SCALE: NOT TO SCALE



**8 SHOCK ARRESTOR DETAIL**  
SCALE: NOT TO SCALE



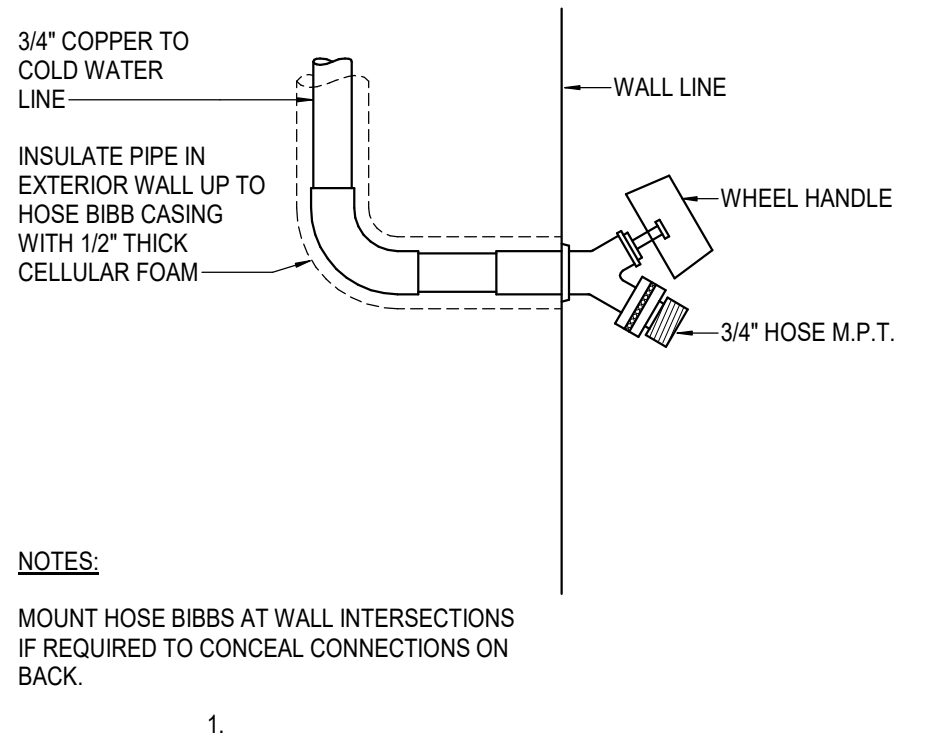
**5 WASHER / DRAIN BOX CONNECTION DETAIL**  
SCALE: NOT TO SCALE



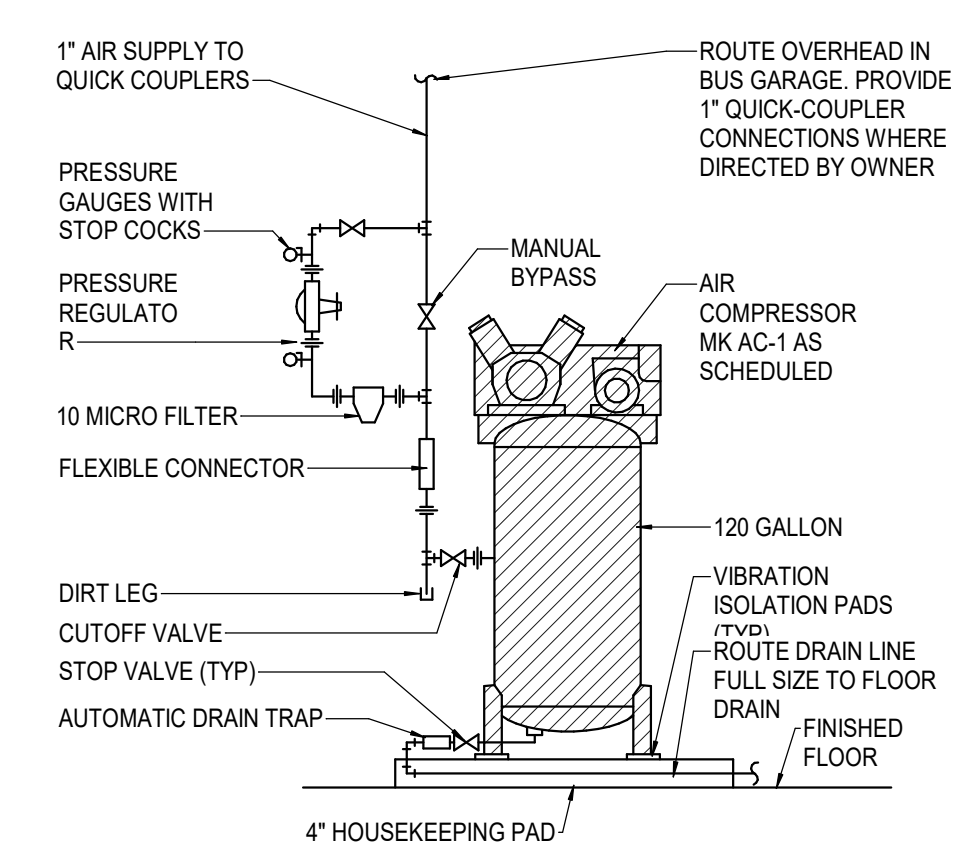
**2 ADJUSTABLE ROLLER PIPE HANGER DETAIL**  
SCALE: NOT TO SCALE

MAXIMUM PIPING / TUBING SUPPORT SPACING																	
NOM. SIZE	3/4"	1"	1 1/4"	1 1/2"	2"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"
PIPING	7"	7"	7"	9"	10"	10"	10"	10"	10"	10"	10"	10"	10"	10"	10"	10"	10"
TUBING	5"	6"	6"	6"	8"	8"	8"	8"	8"	8"	8"	8"	8"	8"	8"	8"	8"

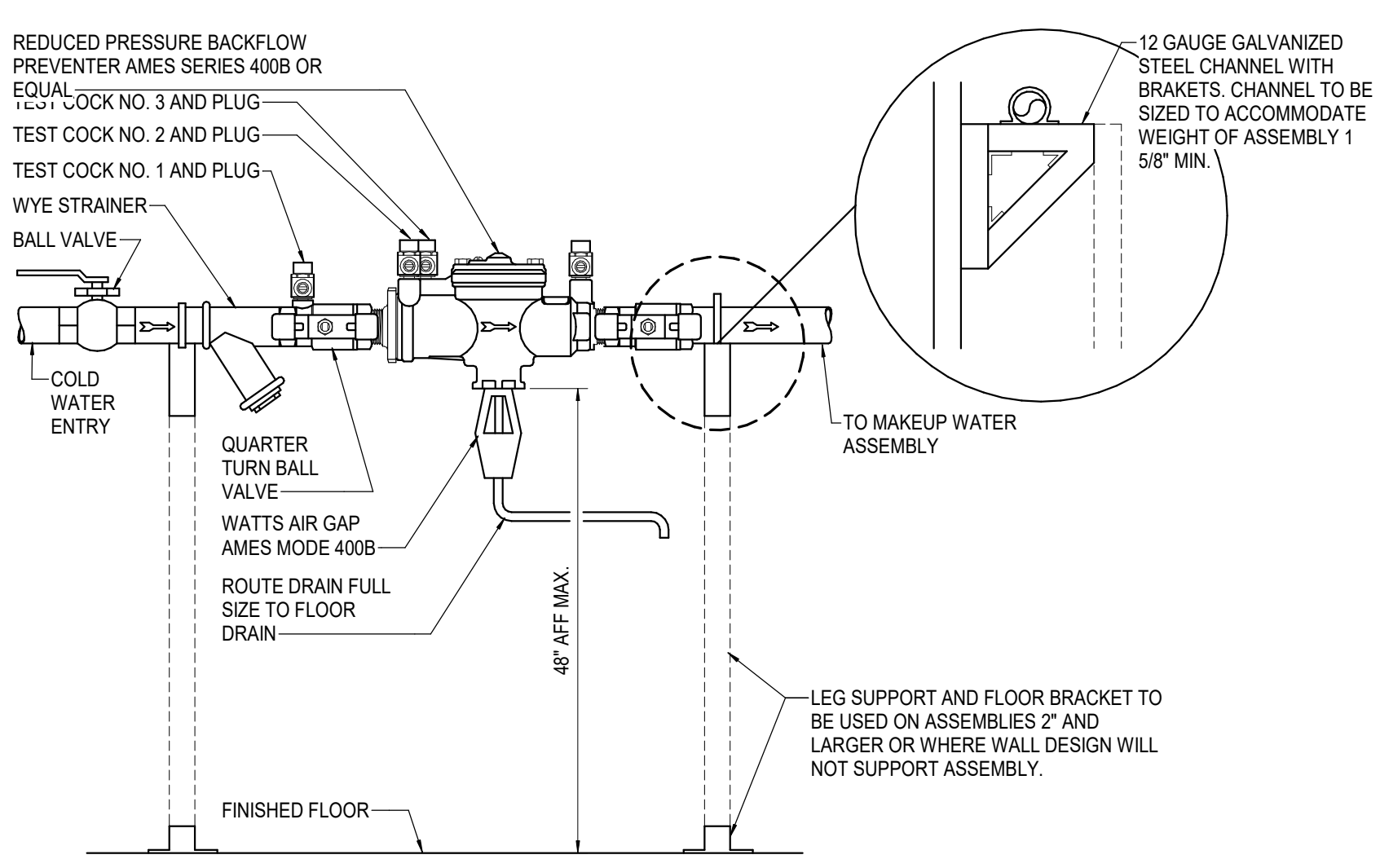
NOTE: FOR TRAPEZE HANGER TAKE SPACING OF SMALLEST SIZE ON TRAPEZE.



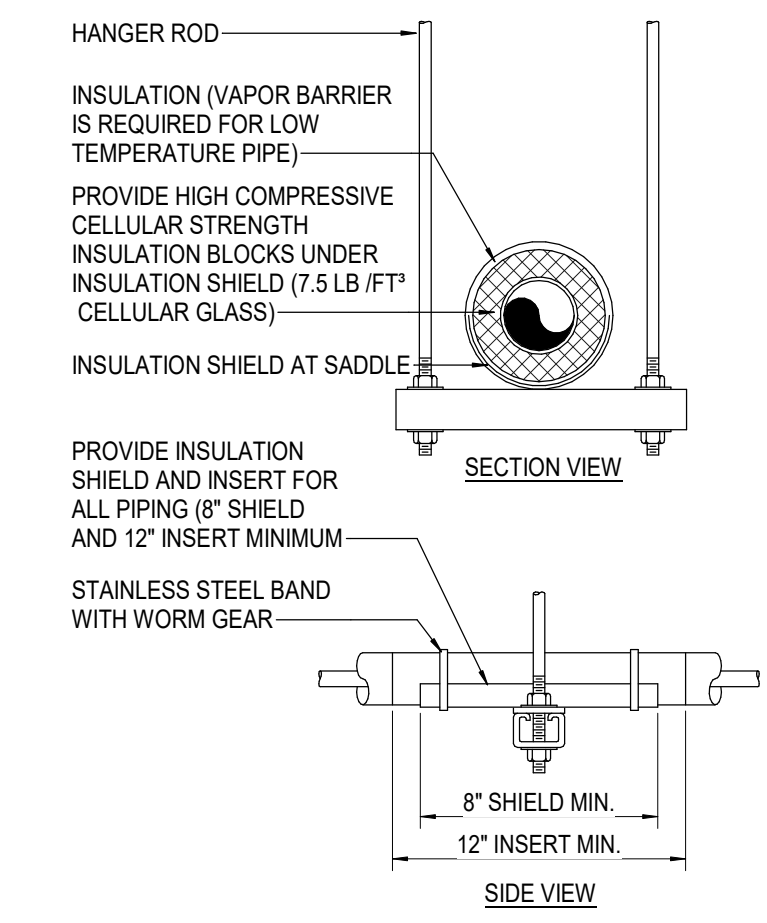
**12 WALL HYDRANT DETAIL**  
SCALE: NOT TO SCALE



**9 AIR COMPRESSOR PIPING DETAIL**  
SCALE: NOT TO SCALE



**6 BACKFLOW PREVENTER MOUNTING DETAIL**  
SCALE: NOT TO SCALE



**3 TRAPEZE PIPE HANGER DETAIL**  
SCALE: NOT TO SCALE

MAXIMUM PIPING / TUBING SUPPORT SPACING																	
NOM. SIZE	3/4"	1"	1 1/4"	1 1/2"	2"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"
PIPING	7"	7"	7"	9"	10"	10"	10"	10"	10"	10"	10"	10"	10"	10"	10"	10"	10"
TUBING	5"	6"	6"	6"	8"	8"	8"	8"	8"	8"	8"	8"	8"	8"	8"	8"	8"

NOTE: FOR TRAPEZE HANGER TAKE SPACING OF SMALLEST SIZE ON TRAPEZE.



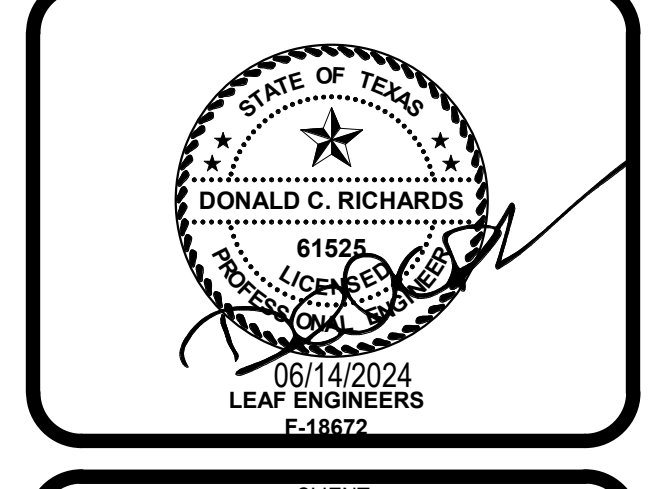
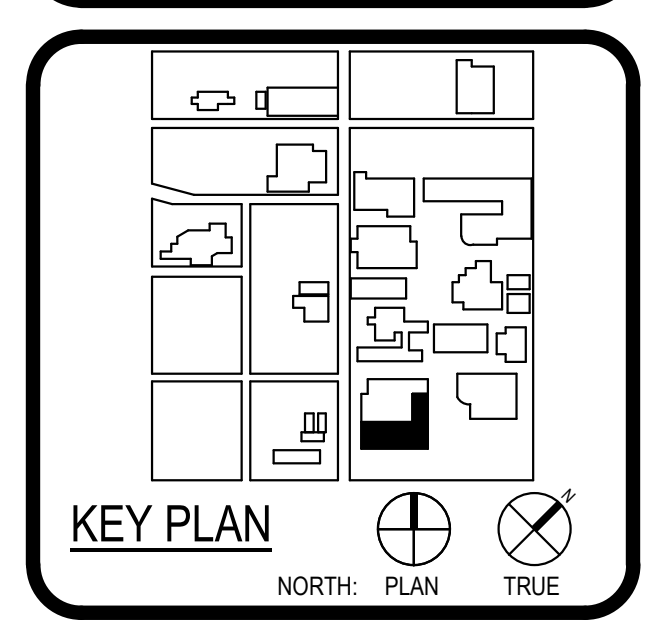
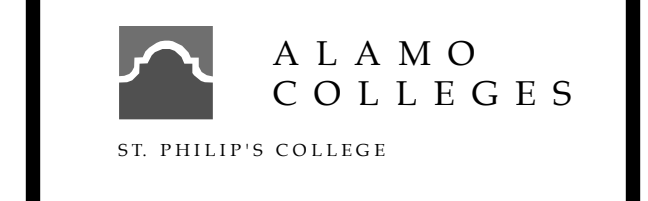
ARCHITECT	PBK Architects, Inc.
SAN ANTONIO	
601 N.W. Loop 410, Suite 400	
San Antonio, TX 78216	
210-820-0123 P	
210-829-0578 F	
TX Firm BR 1608	
ASSOCIATE ARCHITECT	MAX ARCHITECTS
1101 S. W. Loop 410, Suite 400	
San Antonio, TX 78216	
210-829-0123 P	
210-829-0578 F	
TX Firm BR 1608	
ASSOCIATE ARCHITECT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

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

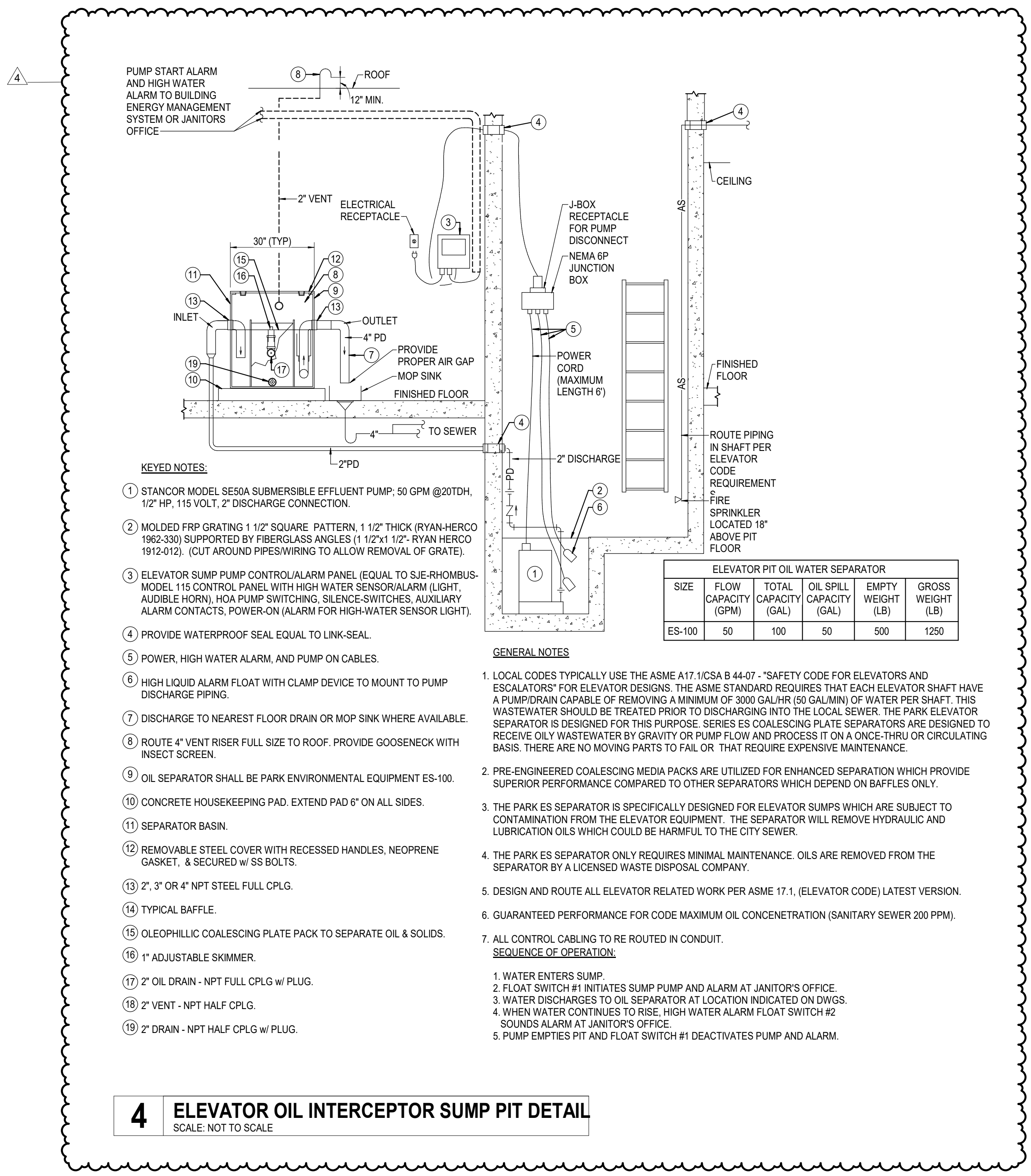
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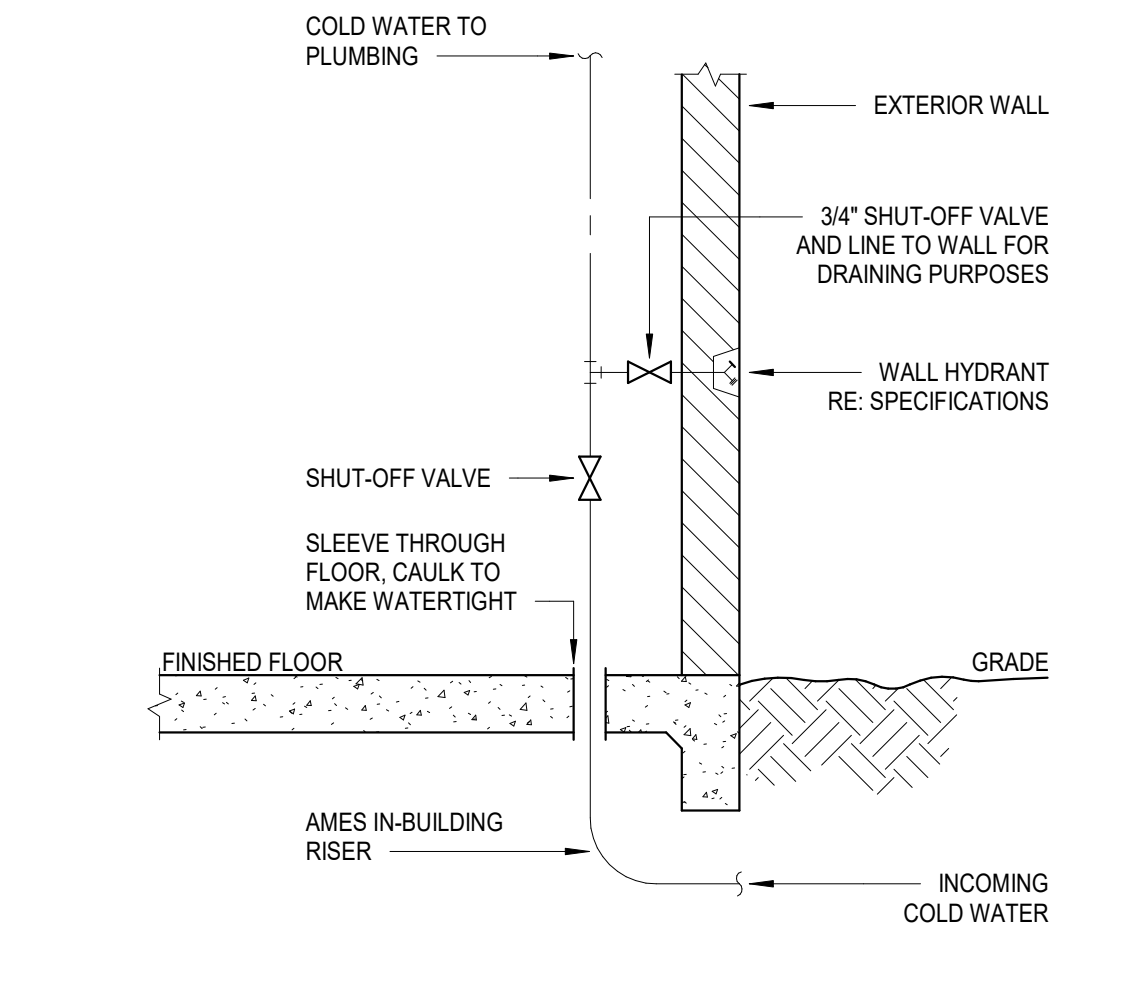
CLIENT	Alamo Colleges	
DATE	06/14/2024	
PROJECT NUMBER	230462	
DRAWING HISTORY		
No.	Description	Date

ISSUE FOR CONSTRUCTION  
BUILDING NUMBER 1

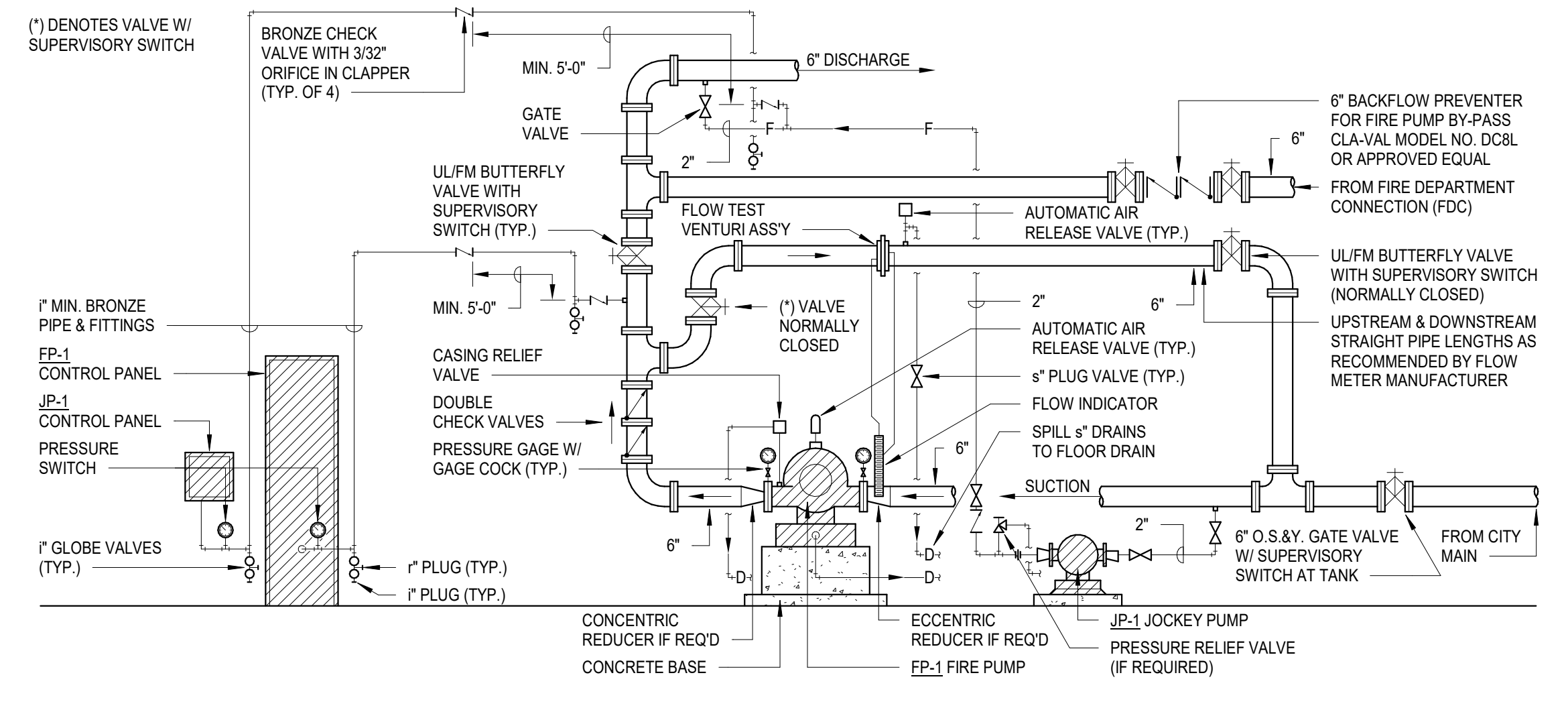
PLUMBING DETAILS



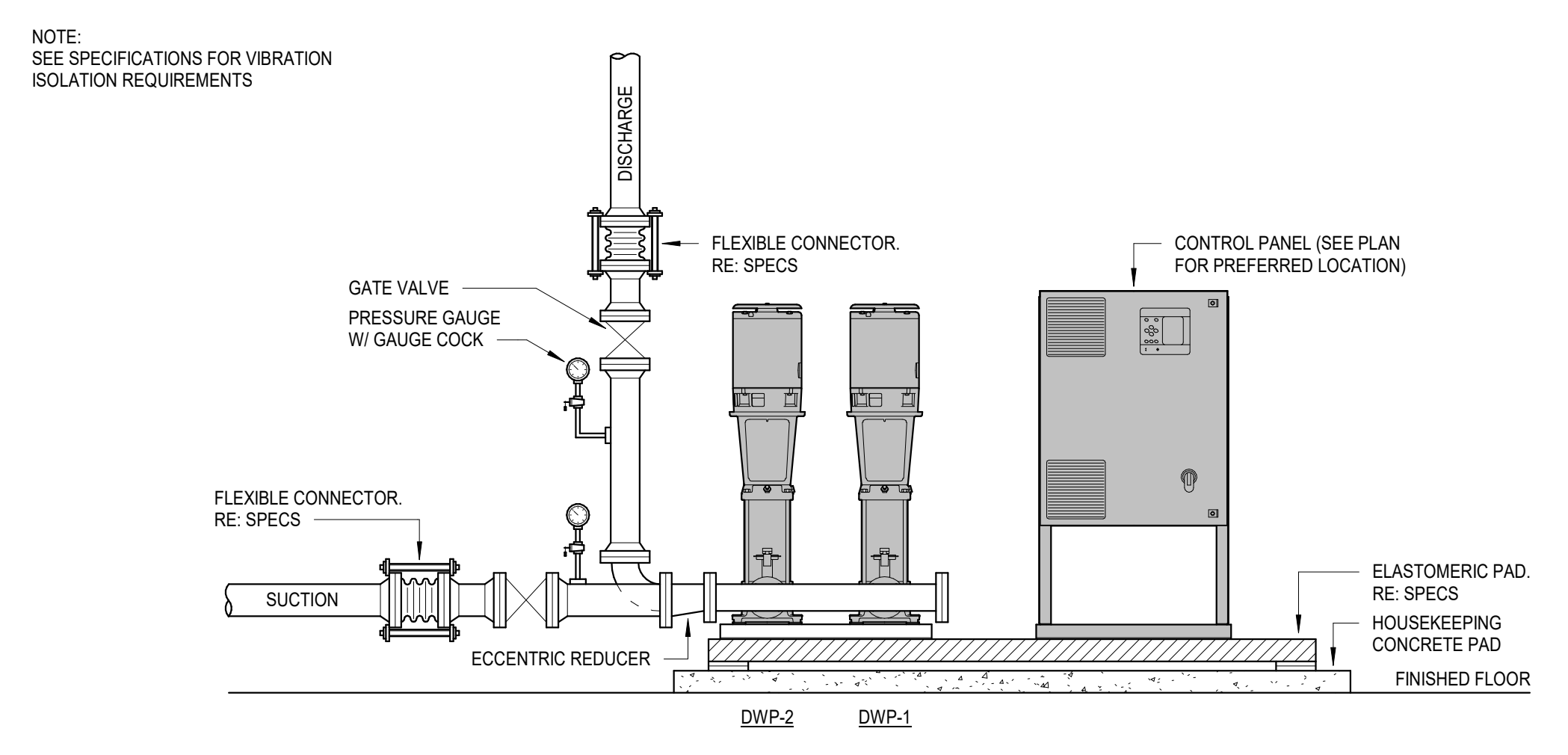
**4 ELEVATOR OIL INTERCEPTOR SUMP PIT DETAIL**  
SCALE: NOT TO SCALE



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



**2 FIRE PUMP**  
SCALE: N.T.S.



**3 DUPLIX PACKAGE PUMPING SYSTEM**  
SCALE: N.T.S.

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...

GENERAL FIRE ALARM NOTES

- 1. ALL 120V POWER REQUIRED FOR THE FUNCTIONALITY OF THE FIRE ALARM SYSTEMS SHALL BE A DEDICATED CIRCUIT AND ON EMERGENCY POWER WHEN AVAILABLE. THE INSTALLING CONTRACTOR OF EACH SYSTEM SHALL BE RESPONSIBLE FOR PROVIDING THEIR OWN 120V POWER REQUIREMENTS FOR ALL REMOTE POWER SUPPLIES...

AUDIO & VIDEO GENERAL NOTES

- 1. ALL 120V POWER REQUIRED FOR THE FUNCTIONALITY OF EACH SYSTEM SHALL BE A DEDICATED CIRCUIT. THE INSTALLING CONTRACTOR'S LICENSED ELECTRICAL SUBCONTRACTOR SHALL COORDINATE ELECTRICAL PANEL LOCATIONS AND AVAILABLE SPACE DEDICATED FOR THE CONTRACTOR'S SYSTEM REQUIREMENTS...

SECURITY SYSTEMS LEGEND

Table with 3 columns: SYMBOL, DESCRIPTION. Contains security system 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 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.

TECHNOLOGY PLAN GENERAL NOTES

- 1. ALL 120V POWER REQUIRED FOR THE FUNCTIONALITY OF THE TELECOMMUNICATION NETWORK, AUDIO/VIDEO, SECURITY AND FIRE ALARM EQUIPMENT SHALL BE A DEDICATED CIRCUIT AND ON EMERGENCY POWER WHERE POSSIBLE, CONTRACTOR SHALL COORDINATE AND INSTALL ALL 120V POWER REQUIREMENTS AND LOCATIONS AS REQUIRED FOR ALL EQUIPMENT...

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 WHEN AVAILABLE...

TECHNOLOGY LEGEND

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

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



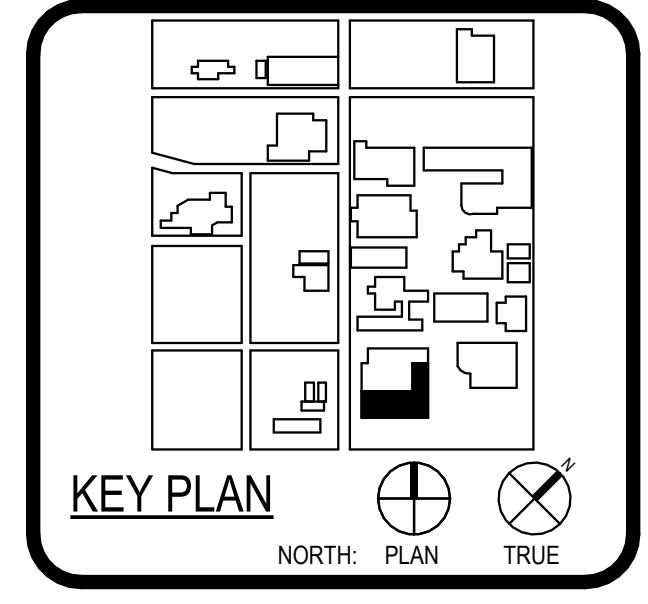
ARCHITECT PBK Architects, Inc. SAN ANTONIO 601 N.W. Loop 410, Suite 400



ARCHITECT LEAF ENGINEERS 1801 Marlin Luther King Dr., San Antonio, TX, 78203

WFAC Black Box Addition PKG 1 ISSUE FOR CONSTRUCTION

ALAMO COLLEGES ST. PHILIP'S COLLEGE



STATE OF TEXAS DONALD C. RICHARDS 61525

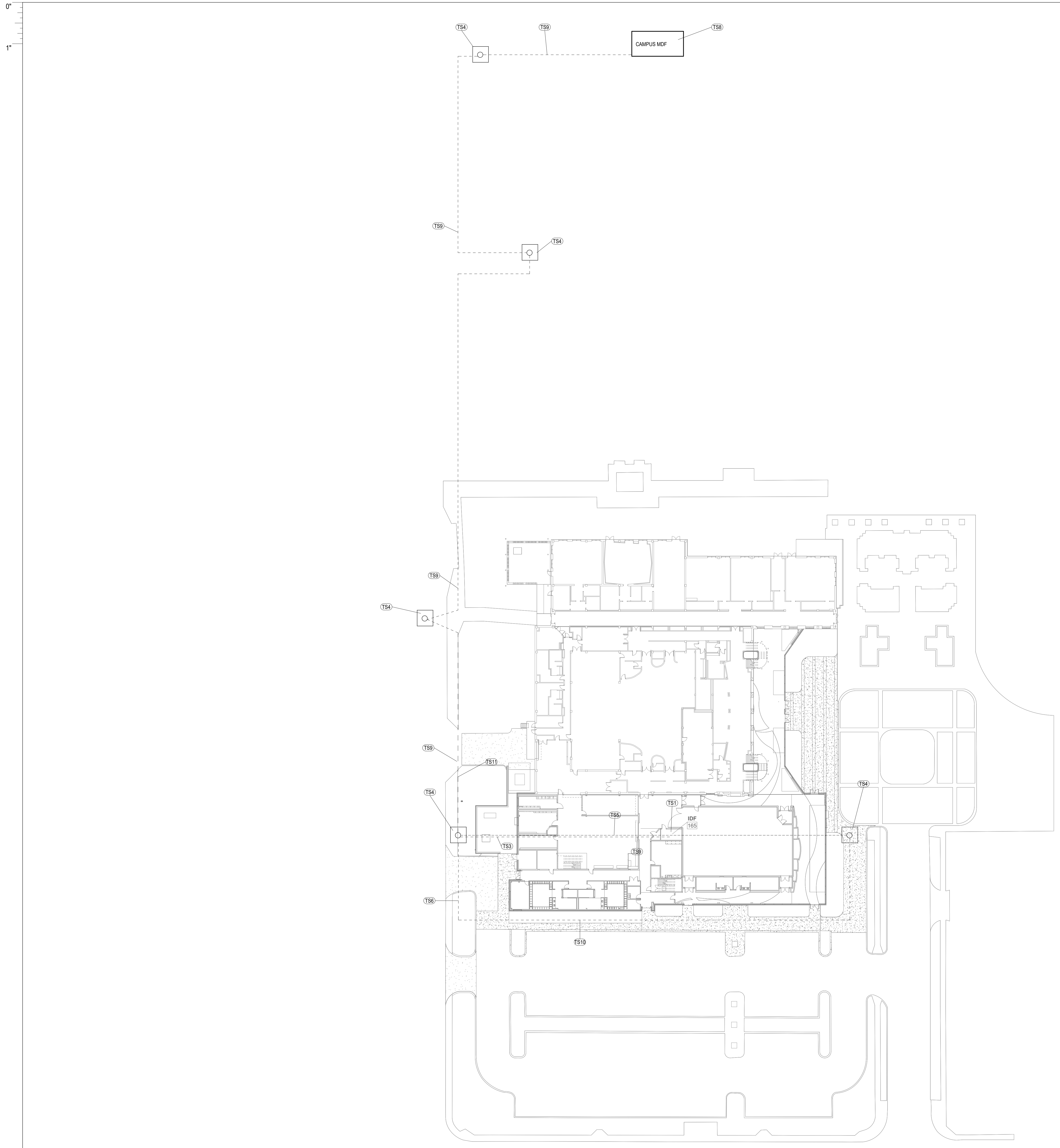
CLIENT Alamo Colleges DATE 2024/06/14 PROJECT NUMBER 230462

Table with 3 columns: No., Description, Date. Drawing history table.

ISSUE FOR CONSTRUCTION BUILDING NUMBER 1



# ISSUE FOR CONSTRUCTION



**1 SITE TECHNOLOGY PLAN**  
 SCALE: 1" = 30'-0"

**TECHNOLOGY KEYNOTES**

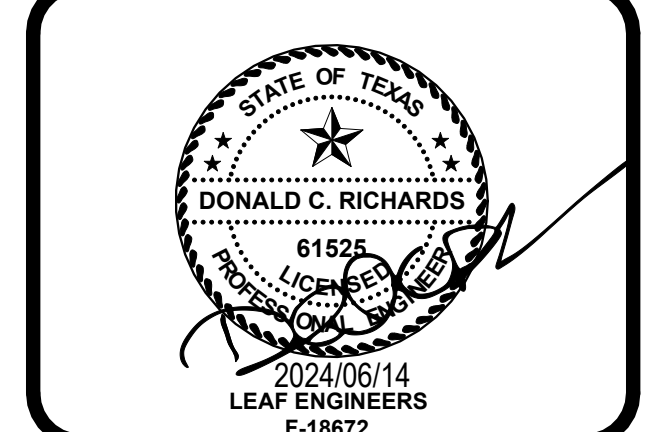
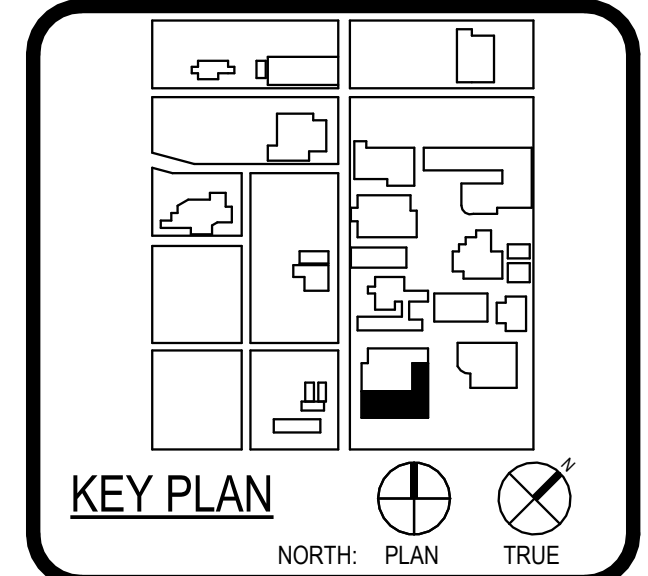
- TS1 INDICATES THE APPROXIMATE LOCATION OF THE NEW BUILDING IDF. CONDUITS SHALL BE STUBBED EVENTUALLY AT 8' A.F.F. TO ENTER THE NEW MDF/IDF.
- TS3 CONTRACTOR TO INSTALL TWO (2) FOUR INCH (4") CONDUIT WITH A PULLING LINE FROM THIS MANHOLE ALL THE WAY TO THE NEW IDF ROUTED AT 4' B.F.G. PROVIDE TWO (2) 3-CELL MAXCELL INNERDUCT IN EACH CONDUIT. THE UNDERGROUND CONDUIT PATHWAY WILL BE INSTALLED BY THE DIV 26 CONTRACTOR.
- TS4 INDICATES THE APPROXIMATE LOCATION OF AN EXISTING MANHOLE. CONTRACTOR SHALL PULL BACK EXISTING FIBER FROM THE EXISTING MANHOLE ALL THE WAY BACK TO THE PREVIOUS BOX. FIBER TO BE RE-USED IF POSSIBLE. CONTRACTOR WILL RE-ROUTE THE EXISTING FIBER AND FUSE SPLICED AT THE SAME BOX IT WAS PULLED FROM THE BEGINNING JUST FROM A DIFFERENT PATHWAY. CONTRACTOR SHALL PAY FOR ANY DAMAGE TO EXISTING FIBER.
- TS5 INDICATES THE APPROXIMATE LOCATION OF AN EXISTING CONDUIT PATHWAY TO BE REMOVED. CONTRACTOR SHALL PULL BACK EXISTING FIBER FROM THE EXISTING MANHOLE ALL THE WAY BACK TO THE PREVIOUS BOX. FIBER TO BE RE-USED IF POSSIBLE. CONTRACTOR WILL RE-ROUTE THE EXISTING FIBER AND FUSE SPLICED AT THE SAME BOX IT WAS PULLED FROM THE BEGINNING JUST FROM A DIFFERENT PATHWAY. CONTRACTOR SHALL PAY FOR ANY DAMAGE TO EXISTING FIBER.
- TS6 INDICATES THE APPROXIMATE LOCATION FOR THE NEW PATHWAY FOR THE EXISTING FIBER TO BE RE-ROUTED TO MAINTAIN THE SERVICE UP AND RUNNING. CONTRACTOR TO FIELD VERIFY THE AMOUNT OF CONDUIT NEEDED FOR THIS NEW ROUTE TO WORK AS THE PREVIOUS.
- TS7 INDICATES THE APPROXIMATE LOCATION OF THE EXISTING CAMPUS MDF. CONDUITS SHALL BE STUBBED EVENTUALLY AT 8' A.F.F. TO ENTER THE MDF/IDF.
- TS8 CONTRACTOR TO PULL A NEW ONE (1) 24-STRAND SINGLE MODE FIBER OUTDOOR/ARMORED-RATED FROM THE EXISTING CAMPUS MDF INTO THE NEW BLACK BOX BUILDING IDF. PROVIDE TWO (2) 3-CELL MAXCELL INNERDUCT IN EACH CONDUIT.
- TS9 CONTRACTOR TO FIELD VERIFY THE EXISTING PATHWAY AND REROUTE THE EXISTING FIBER INTO THE NEW PATHWAY PRIOR TO ANY CONSTRUCTION TO MAINTAIN THE NETWORK ALIVE. CONTRACTOR TO LABEL ALL SPOOLS IN THE MANHOLE ACCORDING TO ACC STANDARDS AND REMOVED ANY NON-WORKING CABLES ALL THE WAY TO THE CAMPUS MDF PATHWAY.
- TS10 CONTRACTOR TO REMOVE ALL NON-WORKING LOW VOLTAGE CABLE ALL THE WAY TO THE CAMPUS MDF DURING THE NEW FIBER PULLING FOR THIS PROJECT.



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ASSOCIATE ARCHITECT	B&A ARCHITECTS 200 1700 LANDSCAPE SITES AND DESIGN 1111 LUNNEY & FRANKS ENGINEERING 1111 MECHANICAL ELECTRICAL PLUMBING MECHANICAL PROFESSIONALS 1111 MECHANICAL ELECTRICAL PLUMBING



WFAC Black Box Addition PKG 1



CLIENT	Alamo Colleges	
DATE	2024/06/14	
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DRAWING HISTORY		
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**SITE TECHNOLOGY PLAN**

**TS-101**