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Alamo Colleges

WFAC Black Box Addition PKG 1

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

ISSUE FOR PERMIT

2024/05/10



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Black Box Addition PKG 1

1801 Martin Lut San Antonio, TV



| SHEET NUMBER | SHEET NAME |
|--------------------|---|
| | URAL GENERAL |
| G-000 | COVER SHEET |
| G-002 | GENERAL PROJECT INFORMATION |
| G-021 | TEXAS ACCESSIBILITY STANDARDS |
| CIVIL | |
| C100 | NOTES |
| C200 | SITE PLAN |
| C201 | SITE FIRE PLAN |
| C202 | DIMENSION CONTROL & PAVING PLAN |
| C300 | EXISTING CONDITIONS & DEMO PLAN |
| C400 | GRADING PLAN |
| C401 | CRAWLSPACE |
| C600 | OVERALL UTILITY |
| C700 | ELEC. & COMNS PLAN & PROFILES |
| C800 | STORM PLAN & PROFILES |
| C900 | SANITARY PLAN & PROFILES |
| C1000 | WATER PLAN & PROFILES |
| C1100 | EROSION CONTROL |
| C1200 | DETAILS |
| C1201 | DETAILS |
| STRUCTURA | |
| S -101 | NOTES, SECTIONS & DETAILS |
| S -102 S -201 | SPECIAL INPECTION NOTES FOUNDATION FRAMING PLAN |
| S-301 | SECTIONS & DETAILS & MECH. YARD FOUNDATION |
| S-301 | SECTION SECTION |
| S-302 | SECTION |
| S-304 | SECTION |
| S-305 | SECTION |
| S-306 | SECTION |
| S-307 | SECTIONS |
| S-308 | SECTIONS |
| S-309 | SECTIONS |
| S-401 | CONC. BEAM SCHED & NOTES |
| S-402 | CONC. JOIST SCHED, NOTES & DETAILS |
| ARCHITECT | URAL SITE DEMOLITION |
| ASD101 | DEMOLITION ARCHITECTURAL SITE PLAN |
| ARCHITECT | |
| AS100 | ARCHITECTURAL SITE PLAN |
| AS401 | ARCHITECTURAL ENLARGED SITE PLANS |
| ARCHITECT | |
| A-100 | CRAWLSPACE FLOOR PLAN - COMPOSITE |
| A-811 | DOOR SCHEDULE PANEL AND FRAME TYPES |
| MECHANICA | |
| MPS-101 | MECHANICAL AND PLUMBING SITE PLAN |
| ELECTRICAL EDS-101 | DEMO SITE POWER PLAN |
| ES-101 | SITE POWER PLAN |
| E-501 | ELECTRICAL ONE LINE DIAGRAM |
| E-502 | ELECTRICAL RISER DIAGRAM |
| E-601 | ELECTRICAL SYMBOL LEGEND AND CONTRACTOR SCHEDU |
| E-602 | ELECTRICAL DETAILS |
| E-603 | ELECTRICAL DETAILS |
| PLUMBING | |
| P-000 | SYMBOLS AND ABBREAVIATIONS |
| PU-101-A | CRAWLSPACE PLUMBING PLAN |
| P-601 | PLUMBING DETAILS |
| P-602 | PLUMBING DETAILS |
| TECHNOLO | |
| | |

TECHNOLOGY SYSTEM NOTES AND LEGENDS

TS-101 SITE TECHNOLOGY PLAN

GENERAL NOTES ABBREVIATIONS AND LEGEND KEYS

<u>BUILDING AREA</u>

NOT USED

S ARCH SITE

F FURNITURE

Q EQUIPMENT

G GRAPHICS & SIGNAGE

D DEMO

GENERAL

CA SPORTS CIVIL

SA SPORTS ARCH

STRUCTURAL

LANDSCAPE

DEMOLITION

MECHANICAL ELECTRICAL

PLUMBING

FS FOOD SERVICE

AV ACOUSTICAL

TECHNOLOGY

ARCHITECTURA

CIVIL

LEVEL REFERENCE

SHEET SERIES TYPE

GENERAL

CEILING

ROOF

ENLARGED PLANS

BLDG DETAILS

9 MISCELLANEOUS

PLANS: (Site, Floor, Finish, Graphics)

ELEVATIONS (Exterior & Interior)

DIAGRAMS/COMPILED SCHEDULES:

(Partition Types, Casework/Millwork, Door & Panel/Frame Types, Window Types)

SECTIONS: (Bidg & Wall)

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

PERM DOCUMENTS REQUIRED BY THE OWNER. finish group PG tread B. 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. fire hydrant paint grade ACOUS acoustical 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. FHC PLAM T&G tongue & groove plastic laminate fire hose cabinet C. CONTRACTOR SHALL REVIEW AND VERIFY EXISTING CONDITIONS AS PROVIDED IN THE CONSTRUCTION DOCUMENTS. CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ALL DISCREPANCIES. ERRORS. PLAS T.O. acoustical ceiling tile FIN finish top of INCONSISTENCIES OR AMBIGUITIES PRIOR TO PROCEEDING WITH THE WORK. PLYWD plywood TEL telephone area drain D. CONTRACTOR SHALL BE RESPONSIBLE FOR, AND PROVIDE PROTECTION OF, ANY EXISTING FINISHES, MATERIALS, AND EQUIPMENT TO REMAIN. CONTRACTOR SHALL REPAIR OR REPLACE ANY DAMAGED POLYISO polyisocyanurate FLUOR fluorescent TER adjustable terrazzo 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 thick

above finished floor foot or feet pair THR paint furring PTD TYP GALV galvanized RAD GB grab bar radius RCP reflected ceiling plan general contractor RD GND ground refer UTIL

ABV

ELEV

EOS

EQUIP

EXST

EXP. JT. expansion joint

fire alarm

floor drain

fire extinguisher

fire annunciuator pane

EMER

DISCOLORATION. JOINTING SHALL BE CLOSE FITTING, NEAT AND WELL SCRIBED. 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 S. 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. T. CONTRACTOR SHALL WAIVE "COMMON PRACTICE" AND "COMMON USAGE" AS CONSTRUCTION CRITERIA WHEREVER DETAILS AND CONTRACT DOCUMENTS OR GOVERNING CODES, ORDINANCES, ETC. REQUIRE QUANTITY OR BETTER QUALITY THAN COMMON PRACTICE OR COMMON USAGE WOULD REQUIRE. U. 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.

ARE NOT ADJUSTABLE WITHOUT APPROVAL OF ARCHITECT UNLESS NOTED +/-.

LAMINATE AND ANY OTHER MATERIALS INDICATED IN THE SHOP DRAWING.

AND DOCUMENT ALL EXISTING DAMAGES, AND PROVIDE TO THE ARCHITECT, PRIOR TO PROCEEDING WITH THE WORK.

CONFLICT SHALL BE DOCUMENTED AND PROVIDED TO THE ARCHITECT PRIOR TO PROCEEDING WITH THE WORK.

ELECTRICAL EQUIPMENT, FANS, SUPPLEMENTARY HEATING AND COOLING ELEMENTS, ALL HARDWARE AND SECURITY EQUIPMENT.

KIND WILL BE MADE FOR THE GENERAL CONTRACTOR'S NEGLIGENCE TO FORESEE MEANS OF INSTALLING EQUIPMENT INTO POSITION.

AND SLAB OPENINGS TO ARCHITECT AND STRUCTURAL ENGINEER OF RECORD FOR REVIEW AND APPROVAL PRIOR TO PROCEEDING WITH THE WORK.

V. 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. W. 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,

E. 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

G. 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

H. CONTRACTOR SHALL VERIFY THAT NO CONFLICTS EXIST BETWEEN THE LOCATIONS OF EXISTING AND PROPOSED NEW MECHANICAL, ELECTRICAL, PLUMBING, DATA, AND SPRINKLER EQUIPMENT (INCLUDING

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 (3 SAMPLES) SHALL BE PROVIDED FOR WOOD, FASTENERS, ACRYLIC, CARPET, TILE, BASE, PAINT,

K. CONTRACTOR SHALL PROVIDE THE ARCHITECT WITH MANUFACTURER'S CUT SHEETS AND SPECIFICATIONS FOR ALL EQUIPMENT INCLUDING BUT NOT LIMITED TO: LIGHT FIXTURES, PLUMBING EQUIPMENT,

L. CONTRACTOR SHALL NOT PROCEED WITH WORK FOR WHICH ADDITIONAL COMPENSATION BEYOND THE CONTRACT AMOUNT IS EXPECTED WITHOUT WRITTEN AUTHORIZATION FROM THE ARCHITECT AND

M. CONTRACTOR SHALL REVIEW AND COORDINATE THE SIZE AND LOCATION OF ALL SLAB OPENINGS WITH ALL RELATED DISCIPLINES. CONTRACTOR SHALL SUBMIT PROPOSED LOCATIONS OF CORE DRILLING

P. WHERE BUILDING THERMAL EXPANSION JOINTS ARE LOCATED, CONTRACTOR SHALL COMPLY WITH APPLICABLE CODE AND INDUSTRY BEST PRACTICES FOR ROUTING OF ALL PIPING, DUCTS, CONDUITS AND

Q. CONTRACTOR SHALL CONTINUOUSLY CHECK ARCHITECTURAL AND STRUCTURAL CLEARANCES FOR ACCESSIBILITY OF EQUIPMENT AND MECHANICAL AND ELECTRICAL SYSTEMS. NO ALLOWANCES OF ANY

R. 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

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

OWNER. FAILURE TO OBTAIN SUCH AUTHORIZATION SHALL INVALIDATE A CLAIM FOR EXTRA COMPENSATION. CONTRACTOR SHALL NOT PROCEED WITH WORK WHICH, IF COMPLETED IN STRICT

N. PATCH, REPAIR, AND INSTALL ALL FIREPROOFING AS REQUIRED BY CODE. FIREPROOF ALL NEW PENETRATIONS AS REQUIRED FOR APPROVAL BY THE AUTHORITY HAVING JURISDICTION.

J. 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,

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

MATERIALS AND EQUIPMENT SHALL BE REMOVED IMMEDIATELY FROM THE WORK AND REPLACED 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.

F. 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

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. X. 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.

Y. 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. Z. 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

ZA. 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. ZB. 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.

OTHER CONTINUOUS RUNS.

ALT threshold alternate ALUM typical aluminum APPROX approximate ARCH architect / architectural undercut UNFIN unfinished B.O. UNO unless noted otherwise BALC UON unless otherwise noted BD utility BET gypsum wall board BLDG gypsum reinforced BLKG REQD VCT required vinyl compostion tile BLW RESIL **VERT** vertical room verify in field BM H.W.H. hot water heater BOT VTR rough opening vent termination pipe handicapped BRKT RTU HDWD hardwood root top unit (mech) VWC vinyl wall covering BULKHD bulkhead HDWR hardware BUR built up roof hollow metal south west horizontal SAFB sound attenunation fiber batt with without C.G. corner guard height CAB SCHED cabinet schedule watercloset CALK SEAL WIN window CEM SECT inner diameter section CER INCAN incandescent square foot wetstack ceramic INSUL WSCT CJ control joint sheet insulation wainscot CLG INT interior SIM similar WT weight CLOS SPEC specification closet CLR clear square cased opening JAN stainless steel extruded polystrene COL STD column standard CONC steel CONT STOR continous storage CPT STRUCT structural carpet SUSP ceramic tile LAM suspended SYM symmetrical CTR center lavatory pound(s) LDG landing DBL DET PROJECT GRAPHIC REFERENCES DIM MAX maximum MECH DN mechanical DR MEMB membrane MFR manufacturer down spout SHEET minimum dishwasher NUMBER DWG miscellaneous masonry opening A-201A1 mounted metal each FLIP SHEET (Schedules) EIFS exterior insulation & finish system

not in contract

overflow pipe

overall

on center

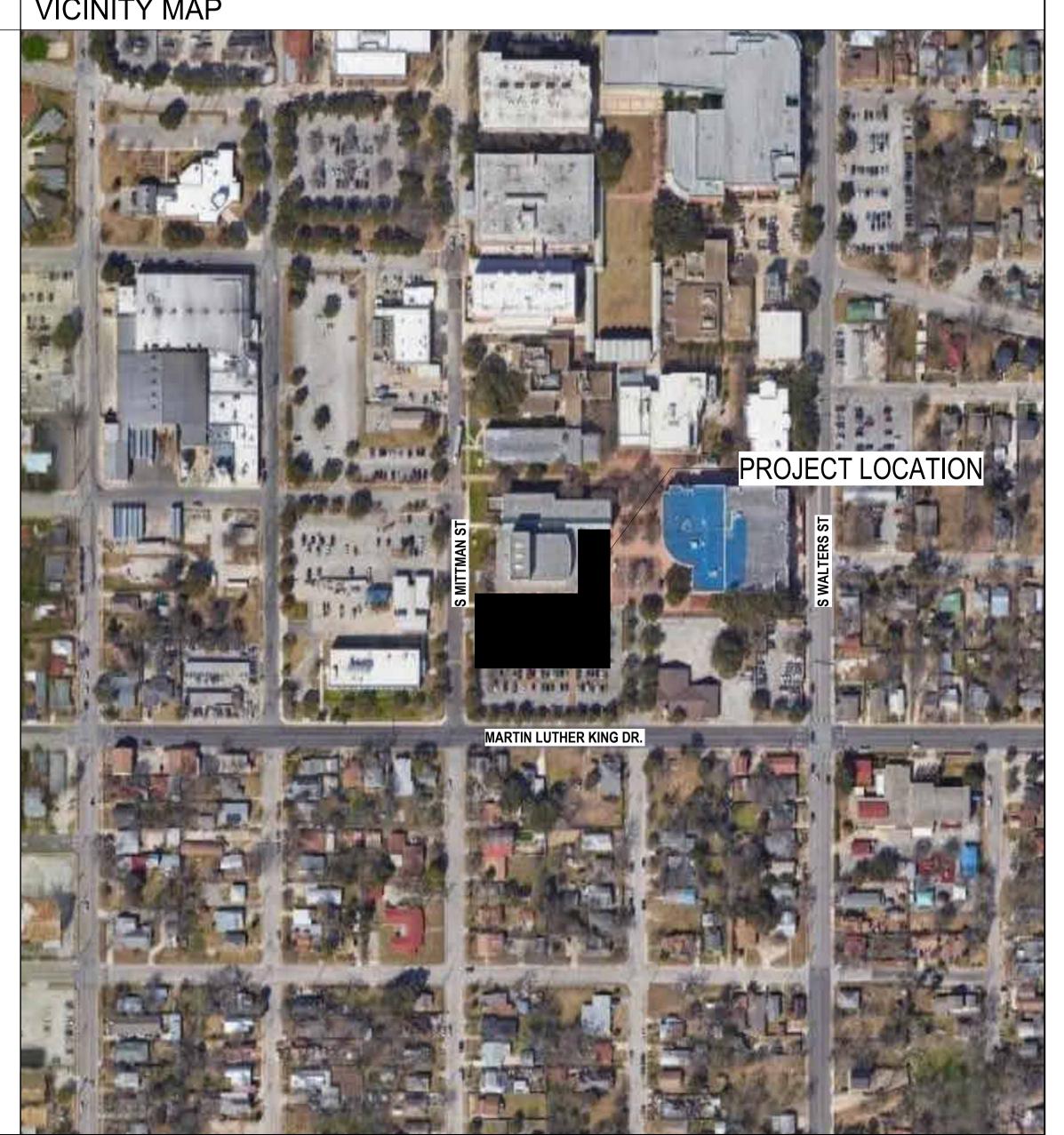
porcelain tile

outside diameter

number

NTS not to scale

VICINITY MAP

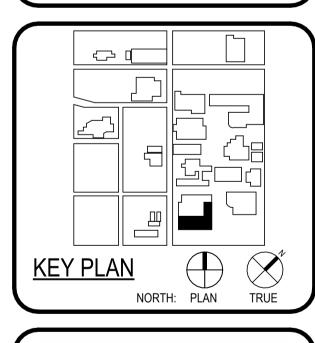


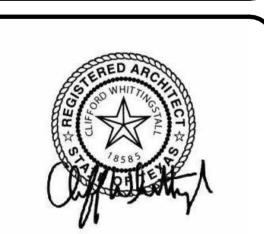










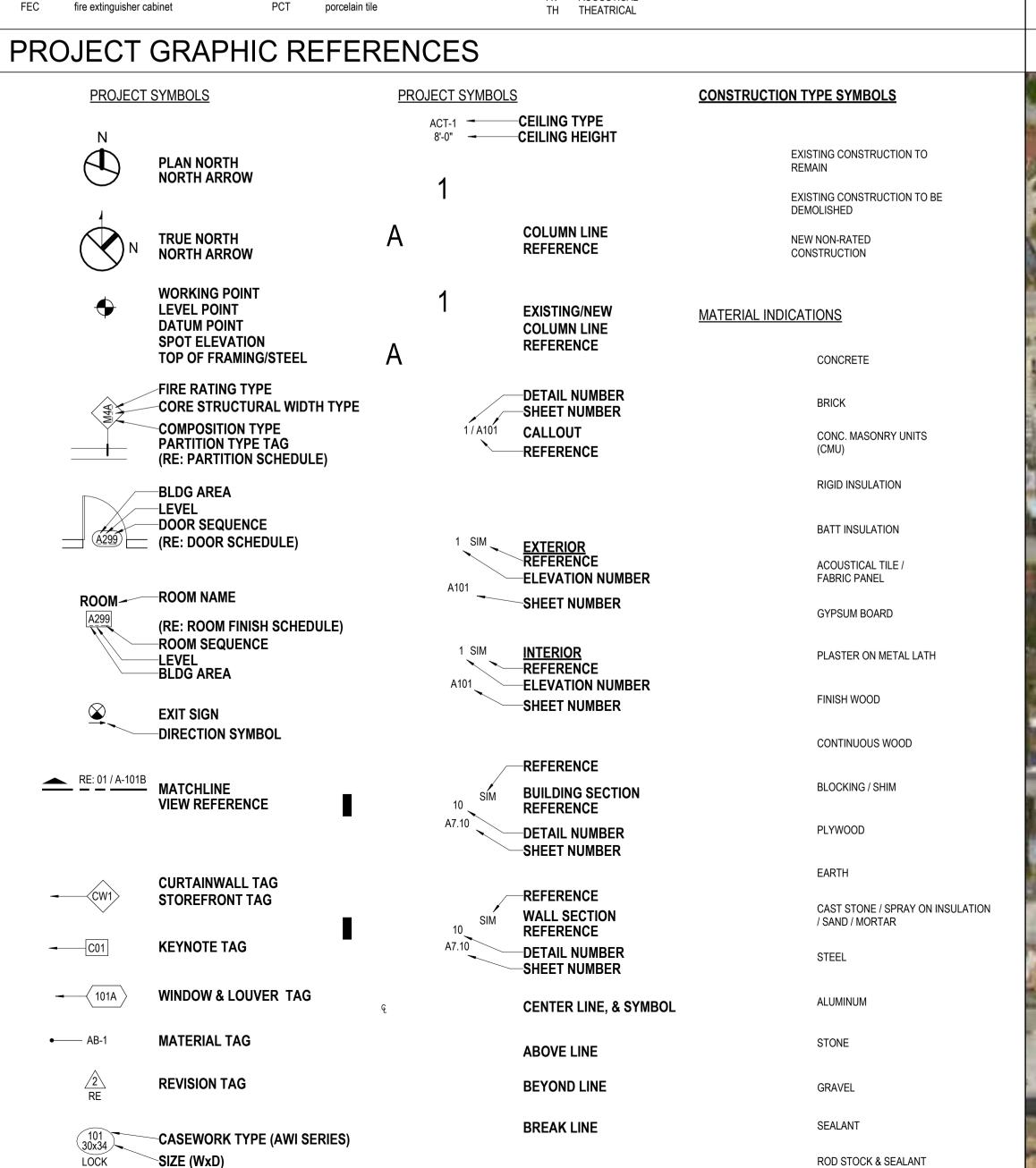


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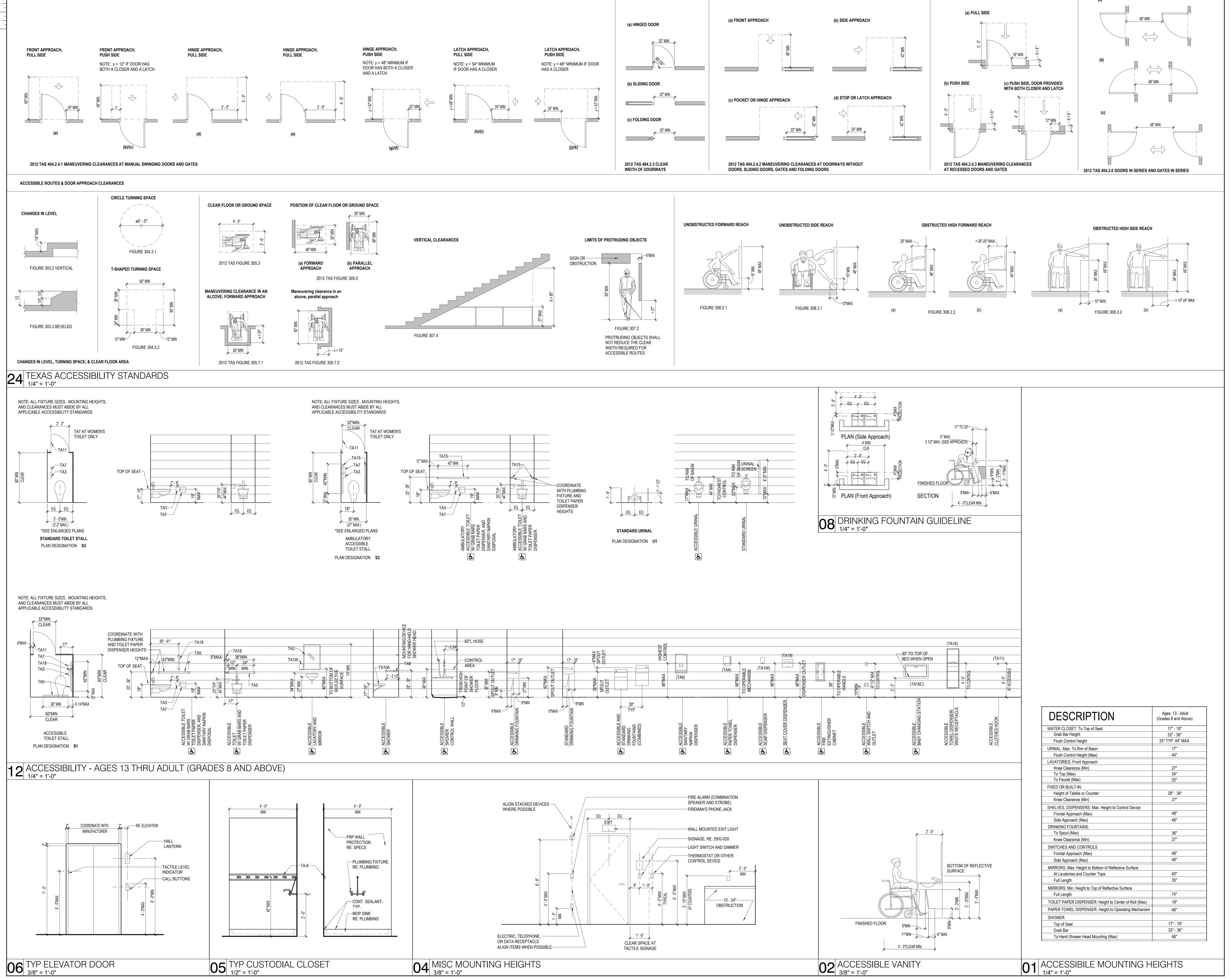
INFORMATION

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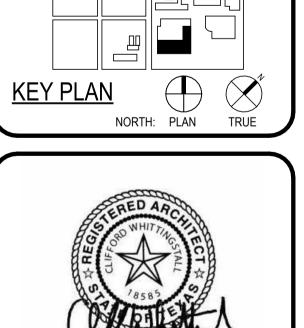


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TX Firm: BR 1608

COLLEGES ST. PHILIP'S COLLEGE

ALAMO



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BUILDING NUMBER TEXAS ACCESSIBILITY

STANDARDS

- 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.
- A PRE-CONSTRUCTION MEETING WILL BE HELD PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. TIME AND LOCATION TO BE DETERMINED BY OWNER.
- . ALL BOUNDARY, TOPOGRAPHIC INFORMATION, AND SURVEY CONTROL WAS COMPLETED IN DECEMBER 2023 BY GEESNER SURVEY. CHANGES IN SITE OR FIELD CONDITIONS MAY HAVE OCCURRED. 4. THE CONTRACTOR SHALL PROTECT ALL SURVEY MONUMENTATION, BENCHMARKS, AND MARKERS DURING
- 5. THE CONTRACTOR MUST PROVIDE CONSTRUCTION STAKING SERVICES BASED ON THE INFORMATION PROVIDED IN
- . 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
- 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 16. HANDICAP ACCESSIBLE PARKING SPACES AND ACCESS AISLES SHALL HAVE A MAXIMUM OF 2% SLOPE IN ALL
- ARE THE RESPONSIBILITY OF THE CONTRACTOR AND CONSIDERED SUBSIDIARY TO THE WORK. 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, 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 PAVEMENT NOTES 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. 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 RESPONSIBLE FOR THE PROTECTION 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 NOTIFY TEXAS811 AT LEAST 48 HOURS PRIOR TO COMMENCING 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 AWAIT WRITTEN INSTRUCTION FROM ENGINEER OR ARCHITECT PRIOR TO STARTING CONSTRUCTION. 13. THE CONTRACTOR IS REQUIRED TO OBTAIN ALL NECESSARY PERMITS, AS WELL AS INSPECTION APPROVALS.
- 14. A COPY OF APPROVED CONSTRUCTION PLANS SHALL BE KEPT ON SITE AT ALL TIMES THROUGHOUT CONSTRUCTION. THE CONTRACTOR SHALL MAINTAIN A SET OF REDLINE DRAWINGS TO RECORD AS-BUILT CONDITIONS 15. 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. 16. 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 CONFINE 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 AFFECTED 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. ALL CONSTRUCTION OPERATIONS FOR THIS PROJECT 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 GESSNER 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. 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
- 25. WHERE ELECTRIC 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 ELECTRIC FACILITIES.

DEMOLITION NOTES:

- 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.
- 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.
- ALL EXCESS TOPSOIL AND CUT MATERIAL IS TO BE HAULED OFF AND DISPOSED OF OFF-SITE. 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 STREETS 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. CONTRACTOR TO PROTECT ALL OR INDICATED EXISTING TREES TO REMAIN DURING DEMOLITION AND
- 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

DIMENSION CONTROL NOTES:

- 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 GESSNER ENGINEERING, FOR THIS PROJECT IS CONSIDERED BY GESSNER 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 DOCUMENTS IN ANY FORM OR FASHION. 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 GESSNER 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. 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
- UNLESS NOTED OTHERWISE, ALL DIMENSIONS ARE TO BACK OF CURB. REFER TO ARCHITECTURAL PLANS FOR

DETAILED BUILDING DIMENSIONS. GRADING NOTES:

- ALL UNPAVED AREAS SHALL BE ADEQUATELY GRADED TO DRAIN AT A MINIMUM OF 2.0% SLOPE, UNLESS OTHERWISE NOTED, SO THAT NO PONDING OCCURS.
- WHEN TOP OF CURB ELEVATIONS ARE SHOWN, THE CURB IS A STANDARD 6" CURB, UNLESS OTHERWISE NOTED. 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 PLAN MAY BE REQUIRED TO MATCH EXISTING GROUND ELEVATIONS
- AND STRUCTURES. CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO ANY MODIFICATIONS. . 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
- TO EXISTING CONDITIONS OR BETTER. 7. FILL MATERIAL FOR NON-STRUCTURAL AREAS (5 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 +/- 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 SPREAD/REPLACE AND CONSOLIDATE TOPSOIL TO A DEPTH OF 6" MINIMUM.
- 10. ALL DISRUPTED AREAS ARE TO HAVE ESTABLISHMENT OF GRASS 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 SOUARE FEET. SECOND APPLICATION OF SEED OR HYDROMULCH OR SOD IS REQUIRED FOR BARE SPOTS NOT MEETING COVERAGE REQUIREMENT WITHIN 30 DAYS OF INITIAL APPLICATION.

- 11. ALL DISTURBED AREAS NOT TO BE PAVED OR LANDSCAPED ARE TO BE PREPARED AND HYDROMULCH OR SEEDED OR WATER NOTES SOD ISNTALLED 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 1. ALL WATER LINES TO BE AWWA C906 HDPE, DR 17, WITH BLUE STRIPING. IF STRIPES ARE NOT PROVIDED. PIPES ARE OF 4" PRIOR TO SEEDING OR INSTALLATION OF SOD. FINAL GRADES WITH ESTABLISHED VEGETATION SHALL PROVIDE POSITIVE DRAINAGE. REVEGETATE PER B/CS UNIFIED TECHNICAL SPECIFICATIONS - SPEC #32-92-19 SEEDING FOR EROSION CONTROL OR PROVIDE "TEXAS TOUGH" BERMUDAGRASS AT 1.25 LBS PER THOUSAND SQUARE FEET.
- BERMUDAGRASS SHALL BE DRILL SEEDED 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.
- DOCUMENTATION OF SUBMISSION TO THE CITY OF COLLEGE STATION. 14. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL MANHOLES, CLEANOUTS, VALVE BOXES, FIRE HYDRANTS, ETC. WITHIN THE AREA OF CONSTRUCTION. THEY MUST BE ADJUSTED TO PROPER GRADE BY THE CONTRACTOR PRIOR TO AND AFTER THE PLACING OF PAVEMENT AND GRADING.

13. CONTRACTOR IS RESPONSIBLE FOR SUBMITTING N.O.I./N.O.T. (IF NECESSARY) TO T.C.E.Q & PROVIDING

- 15. SIDEWALKS SHALL HAVE A SLOPE NO GREATER THAN 5% AND A CROSS SLOPE NOT GREATER THAN 2%, UNLESS OTHERWISE NOTED.
- DIRECTIONS. 17. CONTRACTOR SHALL CONTACT GESSNER ENGINEERING IF DISCREPANCIES EXIST AT EXISTING GRADE TIE-INS. 18. CONTRACTOR TO VERIFY WITH ADJACENT PROPERTY OWNER WHEN GRADING ON ADJACENT PROPERTY. (LEAVE ONLY IF GRADING ON ADJACENT PROPERTY AND THIS HAS BEEN COORDINATED/ AGREED UPON BY ADJACENT LOT

OWNER PRIOR

- 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. 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 LOOSE LIFTS, AND COMPACTED TO A UNIFORM DENSITY OF AT LEAST 98% OF THE MAXIMUM DRY
- DENSITY AS DETERMINED BY THE STANDARD PROCTOR (ASTM D698) WITH A MOISTURE CONTENT OF +/- 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 4,000 SF OF FILL PLACED, WHICH EVER WOULD PRODUCE 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 OF HIGH PLASTICITY (PI>20).

1.F. SOILS SHALL BE STABILIZED WITH 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 ADDED 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 PH NOT LESS THAN 12.4 AND TO PROVIDE A PI VALUE OF LESS THAN OR EQUAL TO 18. 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
- 1.J. A STABILIZATION DEPTH CHECK SHALL BE PERFORMED WITH EACH DENSITY TEST FOR THE STABILIZED LIFT.

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 (12' 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. 2.D. PAVEMENT EXPANSION JOINTS SHALL BE SPACED AS SHOWN ON THE PLANS AND INSTALLED PER DETAIL SHEET CONSTRUCTION SHALL BE STOPPED AT EXPANSION JOINTS. IF CONDITIONS REQUIRE, CONSTRUCTION TO BE
- STOPPED AT OTHER LOCATIONS, A COLD 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.

CONSISTING OF 4 CYLINDERS SHALL BE TAKEN FOR EVERY 75 CUBIC YARDS OF CONCRETE.

2.G. REFERENCE DETAIL SHEET FOR PAVEMENT AND SIDEWALK CONSTRUCTION DETAILS. 2.H. TRANSPORTATION AND PLACEMENT OF THE CONCRETE SHALL BE IN ACCORDANCE WITH ACI 301. A TEST SET

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:

JOINTS ARE NOT ALLOWED.

- 4.A. EXPANSION JOINTS SHALL BE SPACED AT A MAXIMUM 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
- PAINTING AND STRIPING 5.A. CONTRACTOR SHALL 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. MATERIAL AND METHODS FOR PAVEMENT MARKINGS SHALL CONFORM TO ITEM 666 OF THE TXDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION OF HIGHWAYS, STREETS, AND BRIDGES

- 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
- 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
- 4.B. HIGH DENSITY POLYETHYLENE CORRUGATED PIPE (HDPE), AASHTO M252 (4"-10"), AASHTO M294 (12"-60"), AND ASTN F2306 (12"-60"), TYPE S, WITH A WATER TIGHT REINFORCED INTEGRAL BELL AND SPIGOT FOR RUBBER GASKETED JOINTS MEETING ASTM D3212 (ADS N-12, WT WATER TIGHT)
- 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 STRUCTURES (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
- CONTRACTOR IS TO USE SILT FENCING 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.

- ALL SANITARY SEWER LINES TO BE AWWA C906 HDPE, DR17, WITH GREEN STRIPING. IF STRIPES ARE NOT PROVIDED PIPES ARE TO BE WRAPPED WITH TWO ROLLS OF DETECTOR TAPE IN A CANDY CANE STYLE. 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.
- 3. 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 DISTANCES 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
- 4. ALL SANITARY SEWER LINES SHALL BE THOROUGHLY CLEANED, TESTED, AND APPROVED PRIOR TO ANY CONNECTIONS BEING MADE TO THE EXISTING SANITARY SEWER SYSTEM.
- ALL SANITARY SEWER LINE TESTING SHALL BE IN ACCORDANCE WITH CURRENT TCEQ REGULATIONS AND THE SPECIFICATIONS. A LOW PRESSURE AIR TEST OR AN INFILTRATION/EXFILTRATION TEST SHALL BE COMPLETED 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. TAMU UES TO
- OWNER(S). ANY ADJACENT PROPERTY OR RIGHT-OF-WAY DISTURBED DURING CONSTRUCTION SHALL BE RETURNED 6. ALL ASPECTS OF THE SEWER LINE, INCLUDING PIPE JOINTS AND MANHOLES, SHALL HAVE A DESIGN LIFE CYCLE OF NO LESS THAN FIFTY YEARS. IF A PIPE OR AN INTEGRAL STRUCTURAL COMPONENT OF A PIPE WILL DETERIORATE WHEN SUBJECTED TO CORROSIVE INTERNAL CONDITIONS OR IF A PIPE OR COMPONENT DOES NOT HAVE A CORROSIVE RESISTANT LINER INSTALLED BY THE MANUFACTURER, THE CONTRACTOR MUST DEMONSTRATE THE STRUCTURAL INTEGRITY OF THE PIPE DURING THE MINIMUM 50-YEAR DESIGN LIFE CYCLE.
 - 7. CLEAN-OUT INSTALLATIONS MUST PASS ALL APPLICABLE TESTING REQUIREMENTS OUTLINED FOR GRAVITY
 - COLLECTION PIPES IN TCEQ 217.57. 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.

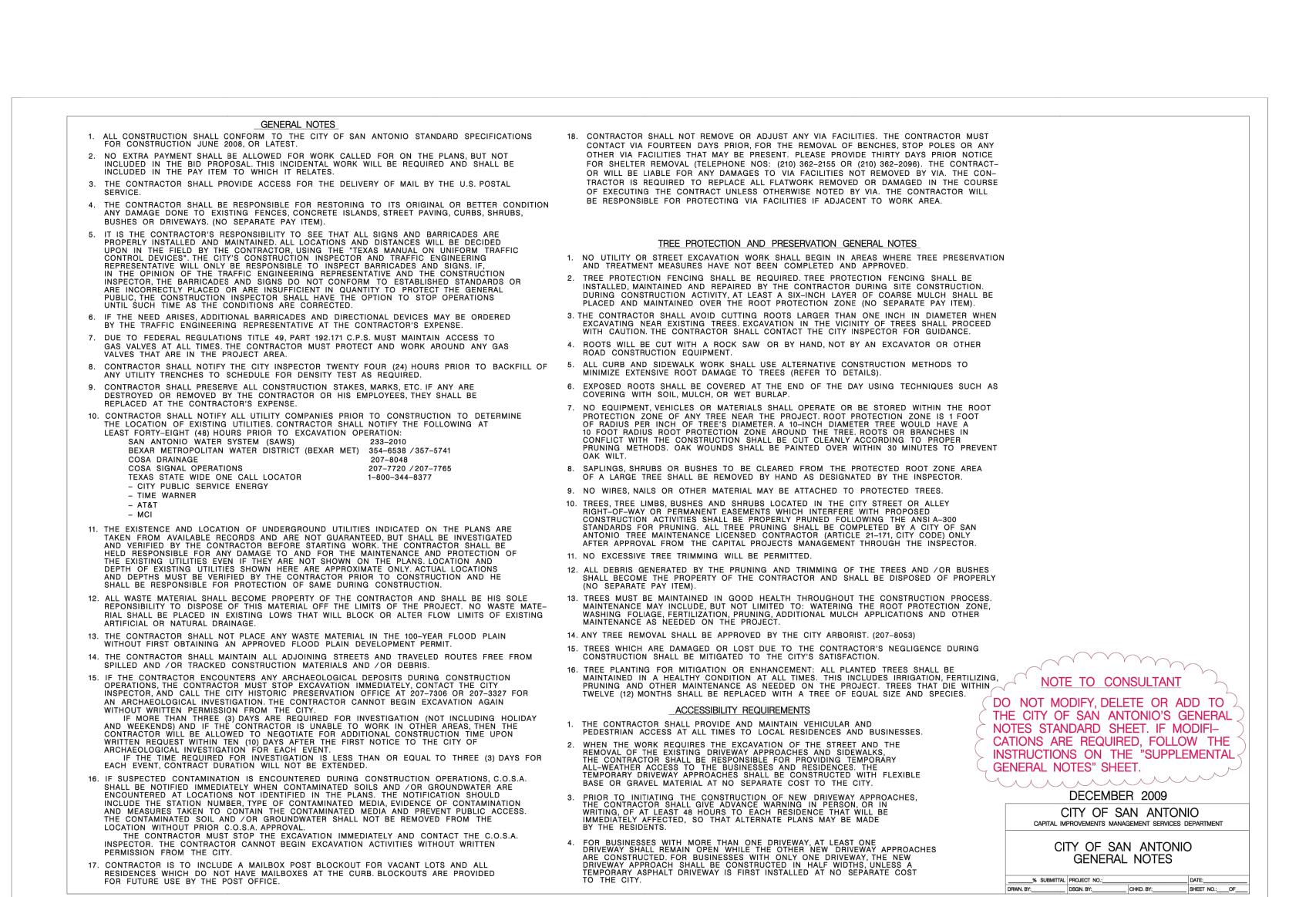
DIFFERENTIAL SETTLEMENT AND MUST CONFORM TO ASTM C-923.

10. THE BOTTOM OF A MANHOLE MUST CONTAIN A U-SHAPED CHANNEL THAT IS A SMOOTH CONTINUATION OF THE 11. A MANHOLE CONNECTION MUST USE WATERTIGHT, SIZE-ON-SIZE RESILIENT CONNECTORS THAT ALLOW FOR

- TO BE WRAPPED WITH TWO ROLLS OF DETECTOR TAPE IN A CANDY CANE STYLE. 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. ALL SEPARATION DISTANCES 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,
- WATER SERVICE LINES SHALL MAINTAIN A MINIMUM COVER OF 3 FEET (4 FEET AT VALVES) AND A MAXIMUM COVER OF 5 FEET UNLESS OTHERWISE SPECIFIED ON PLANS AND/ OR REQUIRED FOR UTILITY CROSSINGS.
- 6. ALL NEWLY INSTALLED PIPES AND RELATED PRODUCTS MUST CONFORM TO AMERICAN NATIONAL STANDARDS INSTITUTE/NATIONAL SANITATION FOUNDATION (ANSI/NSF) STANDARD 61 AND MUST BE CERTIFIED BY AN ORGANIZATION ACCREDITED BY ANSI.
- ALL PLASTIC PIPE FOR USE IN PUBLIC WATER SYSTEMS MUST ALSO BEAR THE NATIONAL SANITATION FOUNDATION SEAL OF APPROVAL (NSF-PW) AND HAVE AN ASTM DESIGN PRESSURE RATING OF AT LEAST 150 PSI OR A STANDARD
- DIMENSION RATION OF 26 OR LESS. 8. NO PIPE WHICH HAS BEEN USED FOR ANY PURPOSE OTHER THAN THE CONVEYANCE OF DRINKING WATER SHALL BE
- ACCEPTED OR RELOCATED FOR USE IN ANY PUBLIC DRINKING WATER SUPPLY. LED BAN SHALL BE FOLLOWED PER CURRENT TCEQ 290.44 (B) REGULATIONS.
- 10. POTABLE WATER DISTRIBUTION LINES AND WASTEWATER MAINS OR LATERALS THAT FORM PARALLEL UTILITY LINES SHALL BE INSTALLED IN SEPARATE TRENCHES. I. NO PHYSICAL CONNECTION SHALL BE MADE BETWEEN A DRINKING WATER SUPPLY AND A SEWER LINE. ANY APPURTENANCES SHALL BE DESIGNED AND CONSTRUCTED SO AS TO PREVENT ANY POSSIBILITY OF SEWAGE
- ENTERING THE DRINKING WATER SYSTEM. 12. WATERLINES SHALL NOT BE INSTALLED CLOSER THAN TEN FEET TO A SEPTIC TANK OR DRAIN FIELD. 13. FIRE HYDRANTS SHALL NOT BE INSTALLED WITHIN NINE FEET VERTICALLY OR HORIZONTALLY OF ANY WASTEWATER
- MAIN, LATERAL, OR SERVICE. 4. SANITARY PRECAUTIONS. FLUSHING. DISINFECTION PROCEDURES. AND MICROBIAL SAMPLING SHALL BE AS PRESCRIBED IN AWWA STANDARDS OR LOCAL JURISDICTIONAL REQUIREMENTS. ALL TEST AND FLUSHING WATER
- SHALL BE POTABLE AND OF A KNOWN SOURCE. 15. AFTER THE PIPE HAS BEEN LAID AND BACKFILLED (LESS FLANGED JOINTS), BUT PRIOR TO THE REPLACEMENT OF PAVEMENT, EACH VALVED SECTION OF NEWLY LAID PIPE SHALL BE SUBJECTED TO A HYDROSTATIC PRESSURE TEST TESTING PROCEDURES SHALL BE PER SPECIFICATIONS. EACH VALVED SECTION OF PIPE SHALL BE SLOWLY FILLED WITH WATER, AND THE SPECIFIED TEST PRESSURE, MEASURED TO THE POINT OF LOWEST ELEVATION, SHALL BE SUPPLIED BY MEANS OF A PUMP CONNECTED TO THE PIPE IN A SATISFACTORY AND SANITARY MANNER. PRESSURE SHALL BE HELD FOR A MINIMUM OF 2 HOURS WITHOUT PRESSURE LOSS OR PER LOCAL JURISDICTION. THE PUMP, PIPE CONNECTION, AND ALL NECESSARY APPARATUS, INCLUDING GAUGES AND METERS SHALL BE FURNISHED BY
- THE CONTRACTOR. 16. NO PIPE INSTALLATION WILL BE ACCEPTED UNTIL A ZERO PRESSURE DROP. 17. THE WATER LINES SHALL BE FLUSHED AND THOROUGHLY STERILIZED. STERILIZATION SHALL FOLLOW THE PROCEDURES AS OUTLINED IN CURRENT AWWA C651, OR PER LOCAL JURISDICTION, WHICHEVER IS MORE STRINGENT. A MINIMUM OF ONE SAMPLE FOR MICROBIAL TESTING SHALL BE COMPLETED PER 1,000 FEET OF COMPLETE WATERLINE.

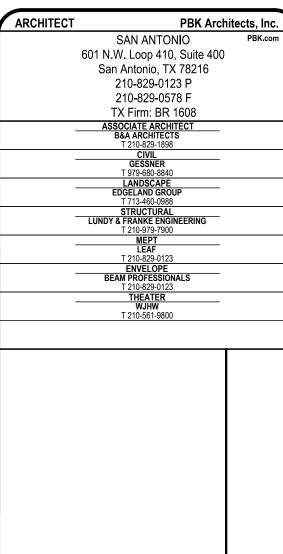
THIS SHEET IS FOR SITE PLANNING PURPOSES ONLY. IT IS NOT TO BE USED AS A DOCUMENT FOR CONSTRUCTION. 2. DRAINAGE CALCULATIONS WERE PERFORMED UTILIZING NRCS AND RATIONAL METHODOLOGIES.

| INDEX OF DRAWINGS | | | |
|-------------------|---------------------------------|--|--|
| Sheet Number | Sheet Title | | |
| C100 | NOTES | | |
| C200 | SITE PLAN | | |
| C201 | SITE FIRE PLAN | | |
| C202 | DIMENSION CONTROL & PAVING PLAN | | |
| C300 | EXISTING CONDITIONS & DEMO PLAN | | |
| C400 | GRADING PLAN | | |
| C401 | CRAWLSPACE | | |
| C600 | OVERALL UTILITY | | |
| C700 | ELEC. & COMNS PLAN & PROFILES | | |
| C800 | STORM PLAN & PROFILES | | |
| C900 | SANITARY PLAN & PROFILES | | |
| C1000 | WATER PLAN & PROFILES | | |
| C1100 | EROSION CONTROL | | |
| C1200 | DETAILS | | |
| C1201 | DETAILS | | |
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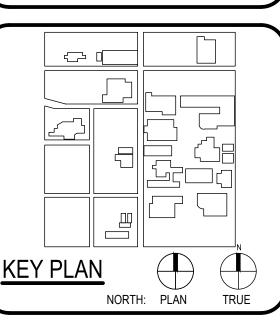


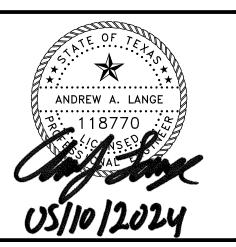






COLLEGES ST. PHILIP'S COLLEGE





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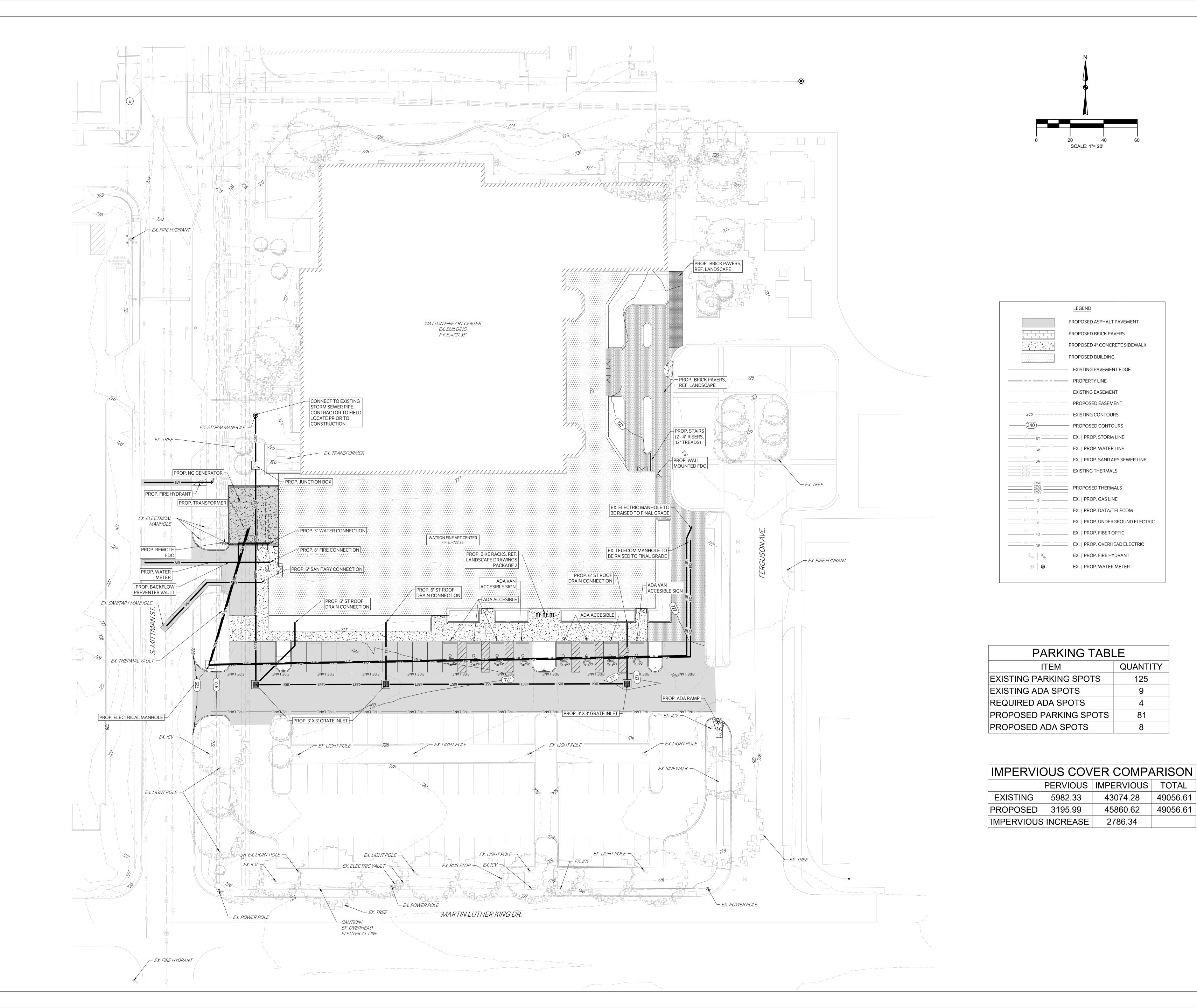
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| | 601 N.W. Loop 410, Suite 400 |) |
| | San Antonio, TX 78216 | |
| | 210-829-0123 P | |
| | 210-829-0578 F | |
| | TX Firm: BR 1608 | |
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| | T 979-680-8840 LANDSCAPE | |
| | EDGELAND GROUP | |
| | T 713-460-0988 STRUCTURAL | |
| • | LUNDY & FRANKE ENGINEERING | |
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LEGEND

PROPOSED ASPHALT PAVEMENT

PROPOSED 4" CONCRETE SIDEWALK

PROPOSED BRICK PAVERS

EXISTING PAVEMENT EDGE

PROPOSED BUILDING

--- PROPOSED EASEMENT

— PROPOSED CONTOURS

EXISTING THERMALS

PROPOSED THERMALS

EX. | PROP. FIRE HYDRANT

EX. | PROP. WATER METER

QUANTITY

125

81

49056.61

49056.61

PERVIOUS IMPERVIOUS TOTAL

43074.28

45860.62

2786.34

PARKING TABLE

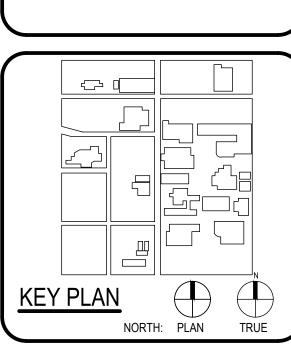
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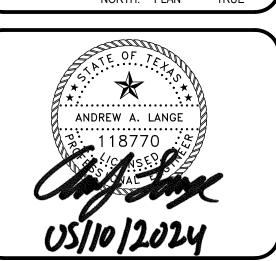
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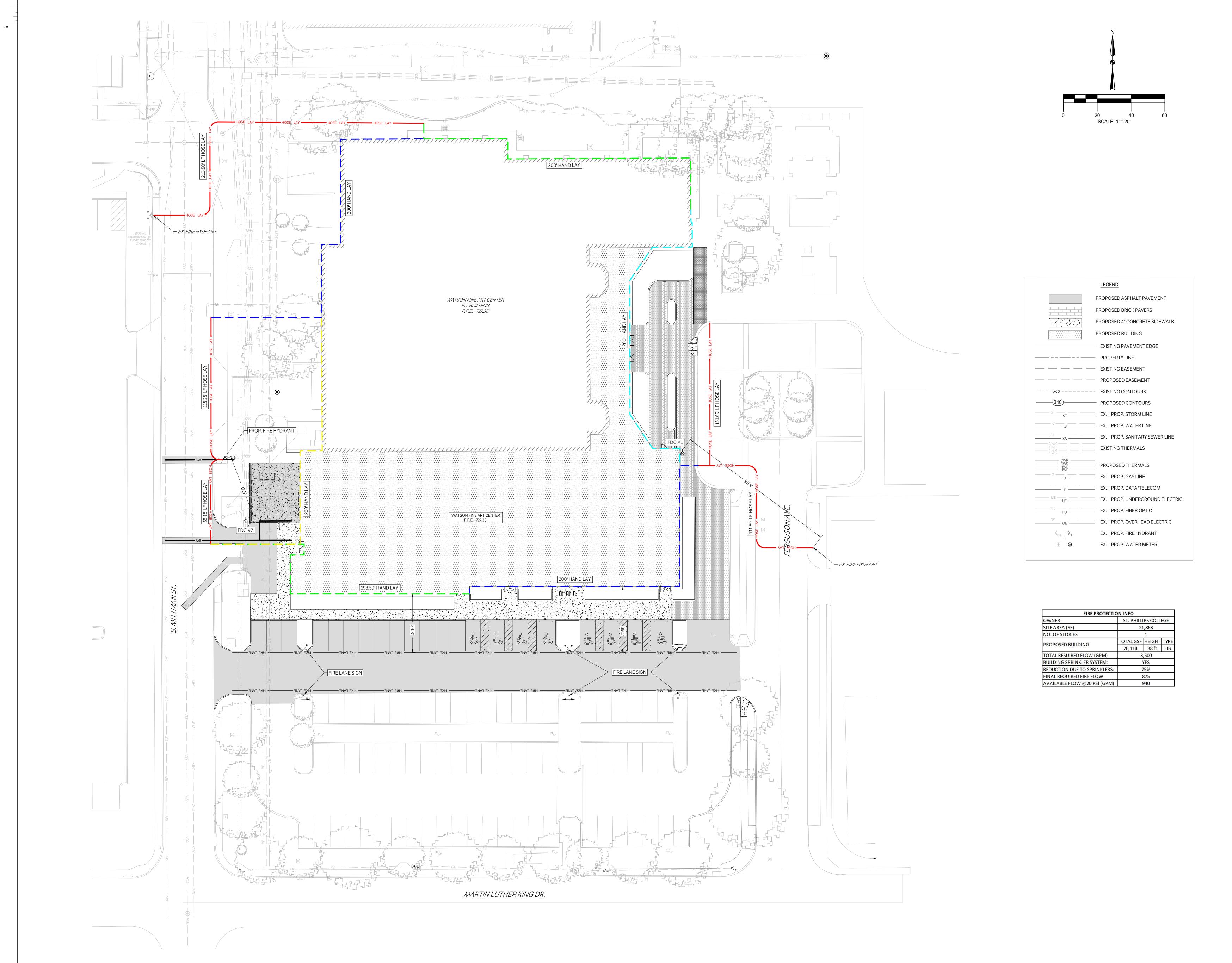


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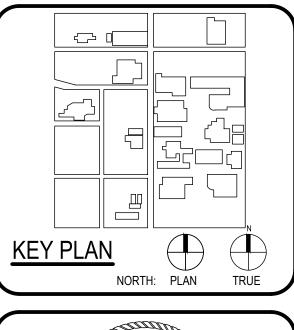


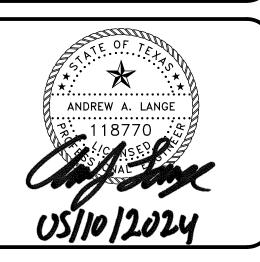




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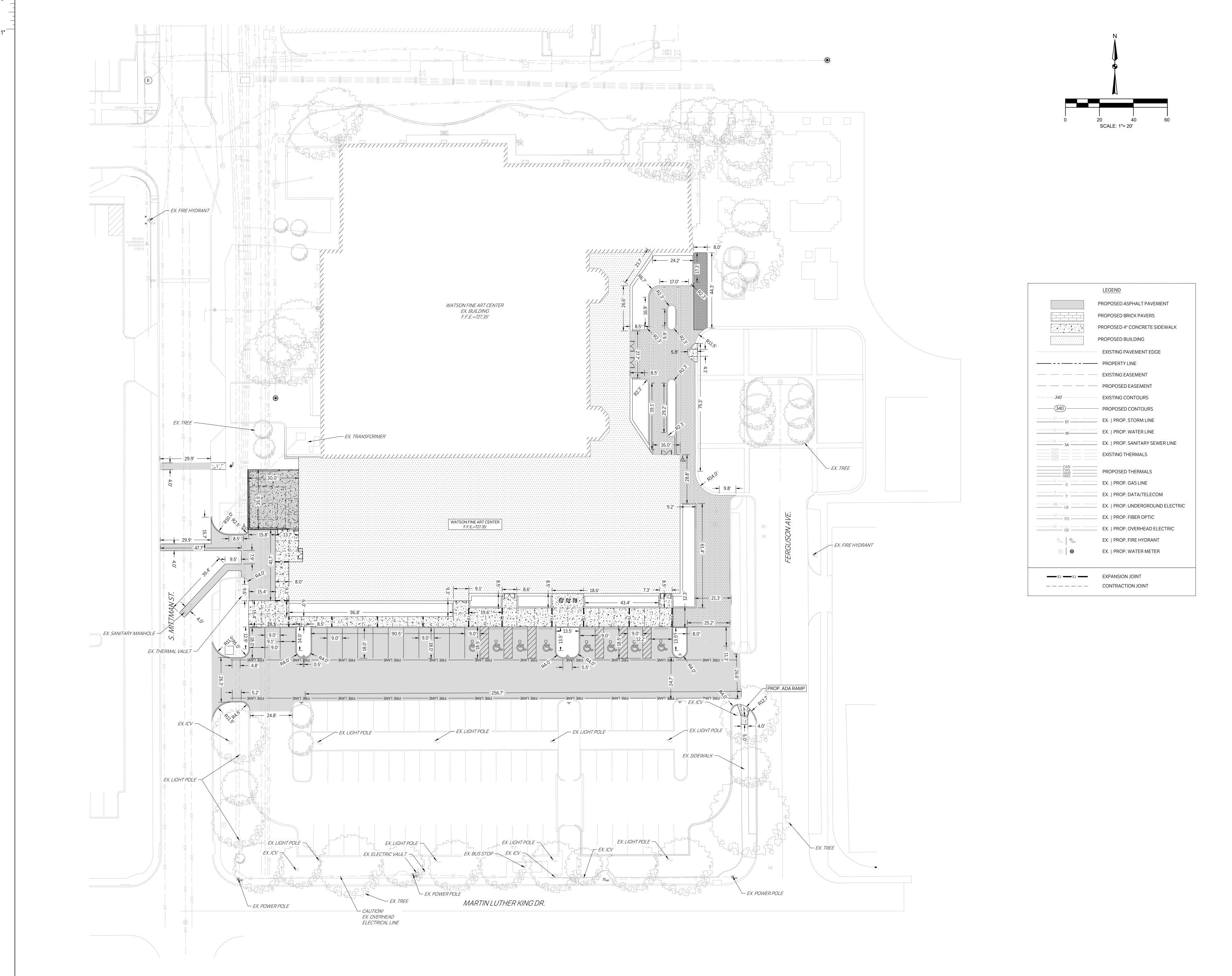
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SITE FIRE PLAN

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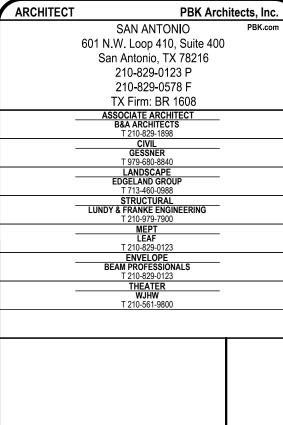
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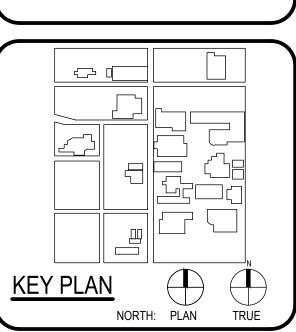


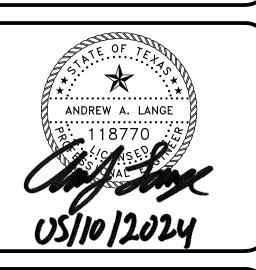






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CONTROL & PAVING

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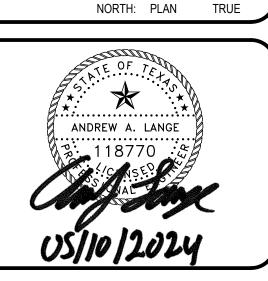


| ARCHITECT | PBK Arc | hitects, Inc |
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| | San Antonio, TX 78216 | |
| | 210-829-0123 P | |
| | 210-829-0578 F | |
| | TX Firm: BR 1608 | |
| | ASSOCIATE ARCHITECT | |
| | B&A ARCHITECTS T 210-829-1898 | |
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| - | GESSNER | |
| | T 979-680-8840 | |
| - | LANDSCAPE EDGELAND GROUP | |
| | T 713-460-0988 | |
| | STRUCTURAL | |
| | LUNDY & FRANKE ENGINEERING | |
| | T 210-979-7900 MEPT | |
| - | LEAF | |
| | T 210-829-0123 | |
| - | ENVELOPE | |
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A L A M O C O L L E G E S

ST. PHILIP'S COLLEGE

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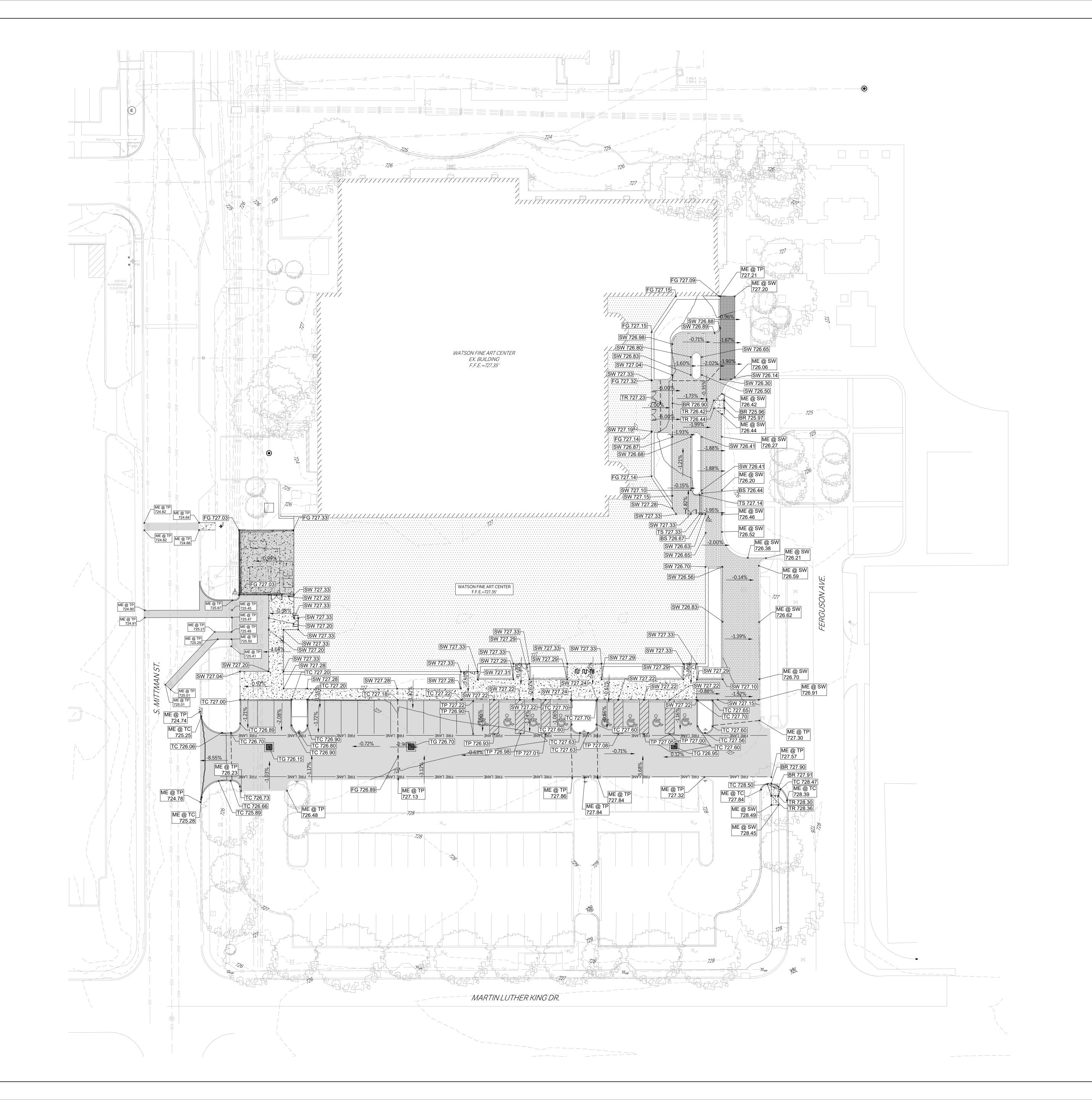
CONDITIONS & DEMO **PLAN**

C300

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SAN ANTONIO 601 N.W. Loop 410, Suite 400 San Antonio, TX 78216

LEGEND

PROPERTY LINE

— — GRADE BREAK

PROPOSED SWALE WITH

PROPOSED FINISHED GRADE AT BOTTOM OF RAMP

PROPOSED FINISHED GRADE AT BOTTOM OF STAIR

PROPOSED FINISHED GRADE AT BASE OF WALL

PROPOSED FINISHED GRADE ELEVATION

PROPOSED GUTTER FLOWLINE ELEVATION

PROPOSED TOP OF JUNCTION BOX ELEVATION

PROPOSED FLOWLINE ELEVATION

PROPOSED GRADE BREAK

ME @ SW MATCH EXISTING SIDEWALK ELEVATION

TC PROPOSED TOP OF CURB ELEVATION

ME @ TC MATCH EXISTING TOP OF CURB ELEVATION

ME @ TP MATCH EXISTING AT TOP OF PAVEMENT ELEVATION

PROPOSED TOP OF GRATE ELEVATION

PROPOSED TOP OF RAMP ELEVATION

PROPOSED TOP OF WALL ELEVATION

TMS PROPOSED TOP MUD SLAB

BMS PROPOSED BOTTOM OF MUD SLAB

PROPOSED TOP OF PAVEMENT ELEVATION

PROPOSED TOP OF PAVEMENT AT SIDEWALK ELEVATION

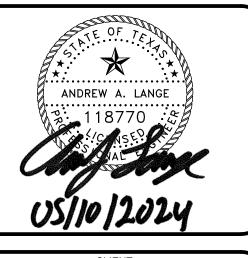
EXISTING CONTOURS

PROPOSED CONTOURS

DIRECTION OF FLOW ARROWS

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KEY PLAN NORTH: PLAN TRUE

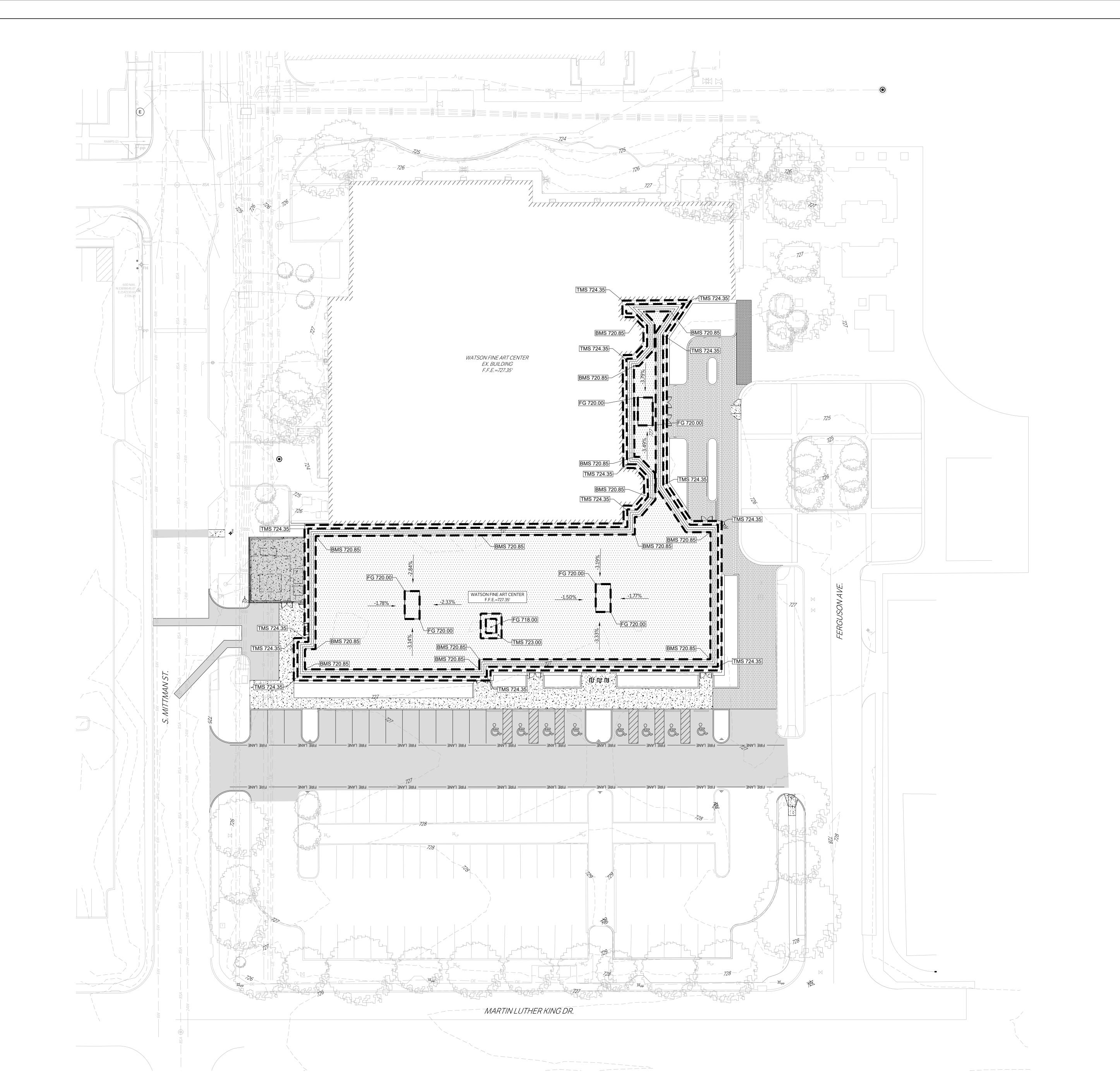


Alamo Colleges PROJECT NUMBER **ISSUE FOR PERMIT BUILDING NUMBER**

GRADING PLAN

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| | 601 N.W. Loop 410, Suite 400 | |
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| | 210-829-0123 P | |
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| | ASSOCIATE ARCHITECT | |
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| | T 210-829-1898 | |
| , | CIVIL GESSNER | |
| | T 979-680-8840 | |
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| | EDGELAND GROUP T 713-460-0988 | |
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LEGEND

PROPOSED SWALE WITH DIRECTION OF FLOW ARROWS

PROPOSED FINISHED GRADE AT BOTTOM OF RAMP

PROPOSED FINISHED GRADE AT BOTTOM OF STAIR

PROPOSED FINISHED GRADE AT BASE OF WALL

PROPOSED FINISHED GRADE ELEVATION

PROPOSED GUTTER FLOWLINE ELEVATION

PROPOSED TOP OF JUNCTION BOX ELEVATION

PROPOSED FLOWLINE ELEVATION

PROPOSED GRADE BREAK

ME @ SW MATCH EXISTING SIDEWALK ELEVATION

TC PROPOSED TOP OF CURB ELEVATION

TW PROPOSED TOP OF WALL ELEVATION

BMS PROPOSED BOTTOM OF MUD SLAB

TMS PROPOSED TOP MUD SLAB

ME @ TC MATCH EXISTING TOP OF CURB ELEVATION

ME @ TP MATCH EXISTING AT TOP OF PAVEMENT ELEVATION

SW PROPOSED TOP OF PAVEMENT AT SIDEWALK ELEVATION

PROPOSED TOP OF GRATE ELEVATION

PROPOSED TOP OF RAMP ELEVATION

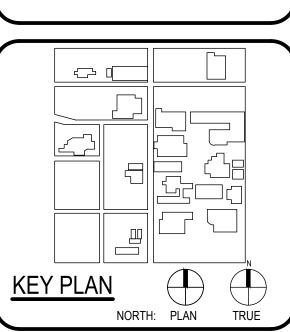
PROPOSED TOP OF PAVEMENT ELEVATION

PROPERTY LINE

— — GRADE BREAK

EXISTING CONTOURS

PROPOSED CONTOURS



A L A M O C O L L E G E S

ST. PHILIP'S COLLEGE



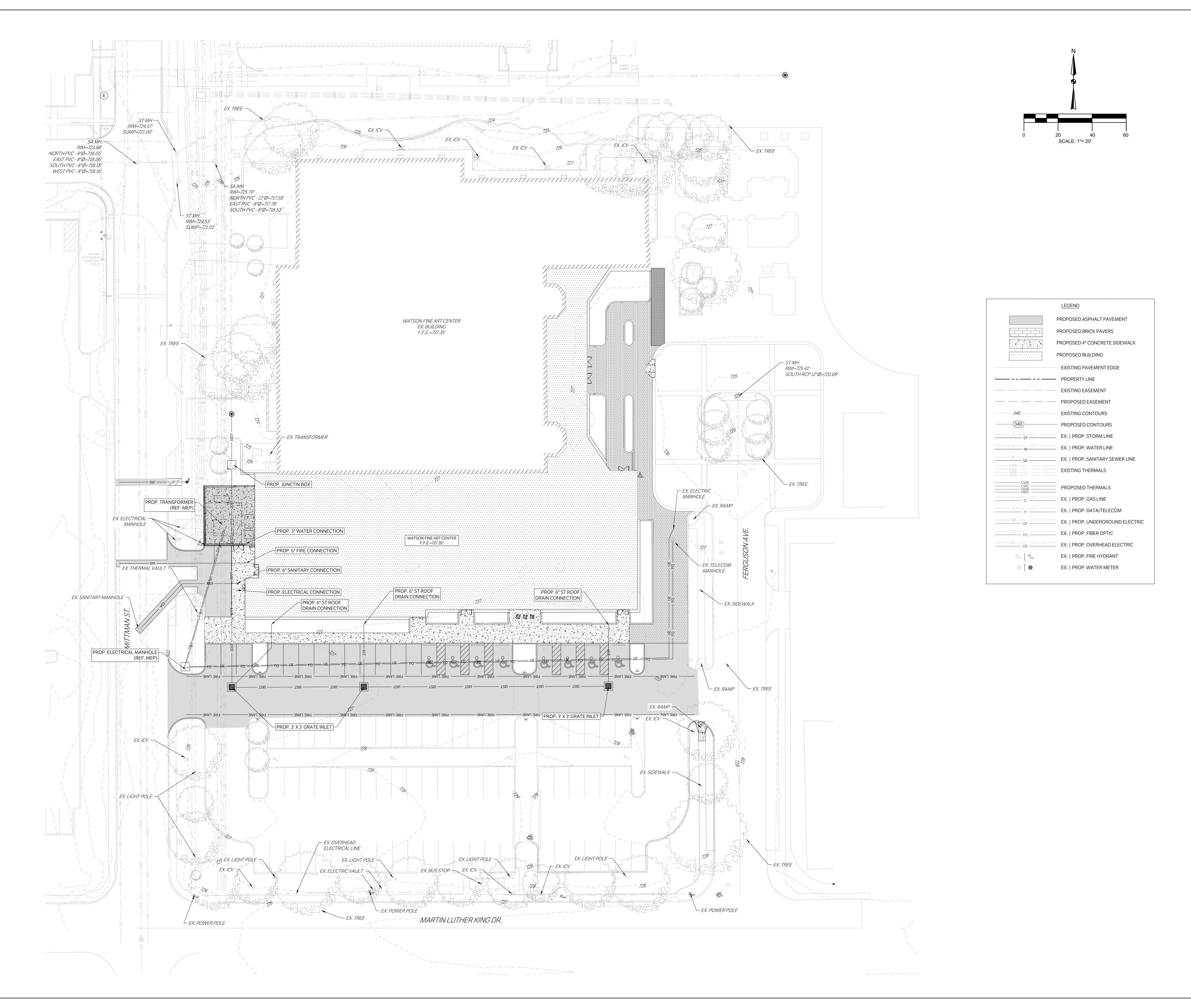
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CRAWLSPACE

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OVERALL UTILITY

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INV=722.00'

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FIELD VERIFY ELEVATION

STA 0+00.00, EL-02

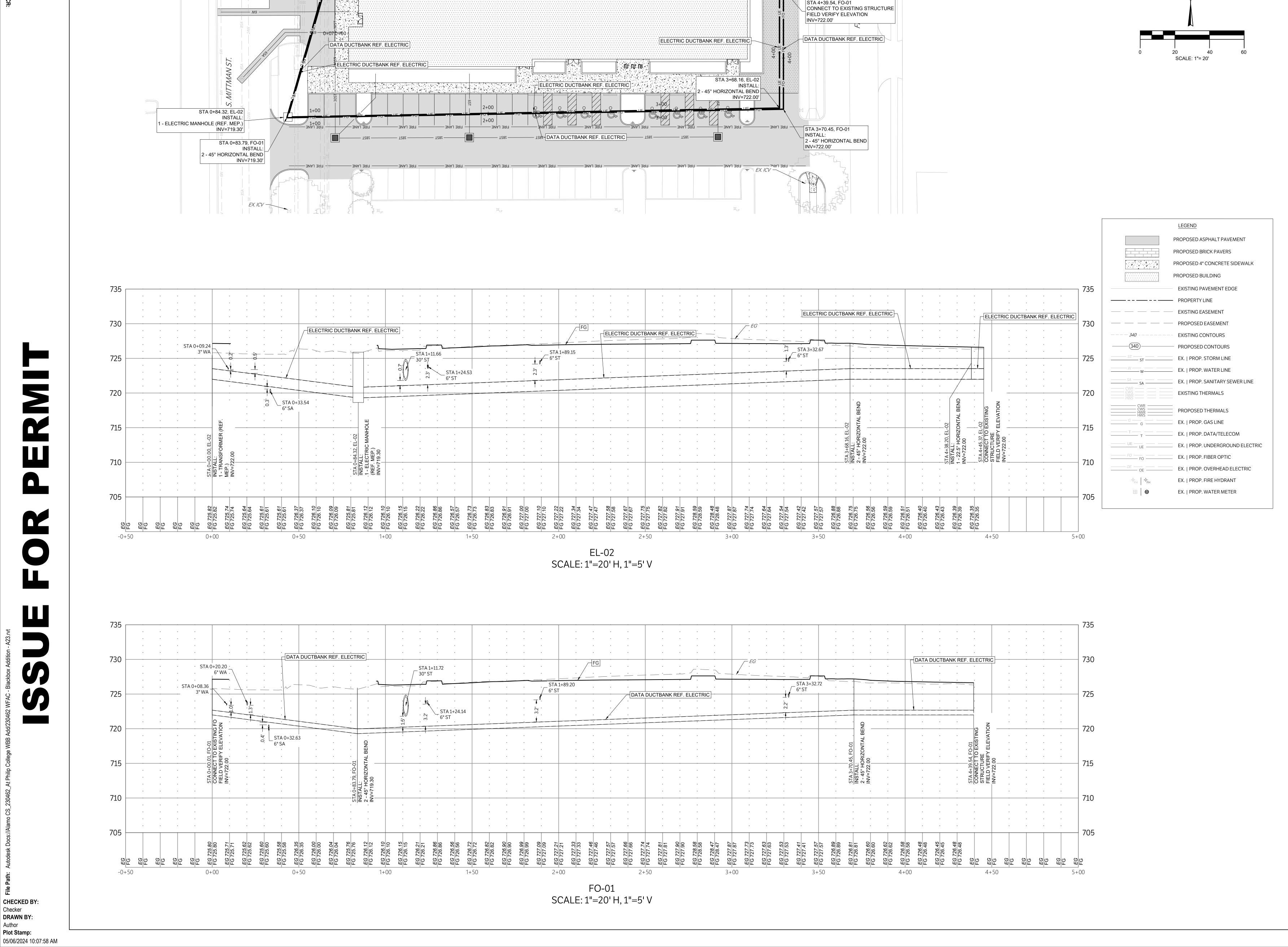
1 - TRANSFORMER (REF. MEP.)

WATSON FINE ART CENTER

F.F.E.=727.35'

INSTALL:

INV=722.00'



STA 4+45.37, EL-02

FIELD VERIFY ELEVATION

ELECTRIC DUCTBANK REF. ELECTRIC

1 - 22.5° HORIZONTAL BEND∏

STA 4+38.20, EL-02

INSTALL:

INV=722.00'

CONNECT TO EXISTING STRUCTURE

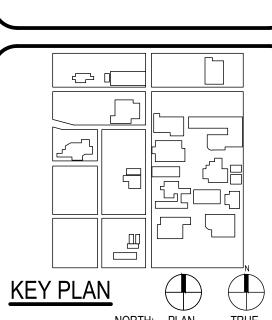


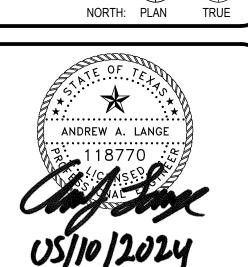


PBK Architects, Inc SAN ANTONIO 601 N.W. Loop 410, Suite 400 San Antonio, TX 78216 210-829-0123 P 210-829-0578 F TX Firm: BR 1608

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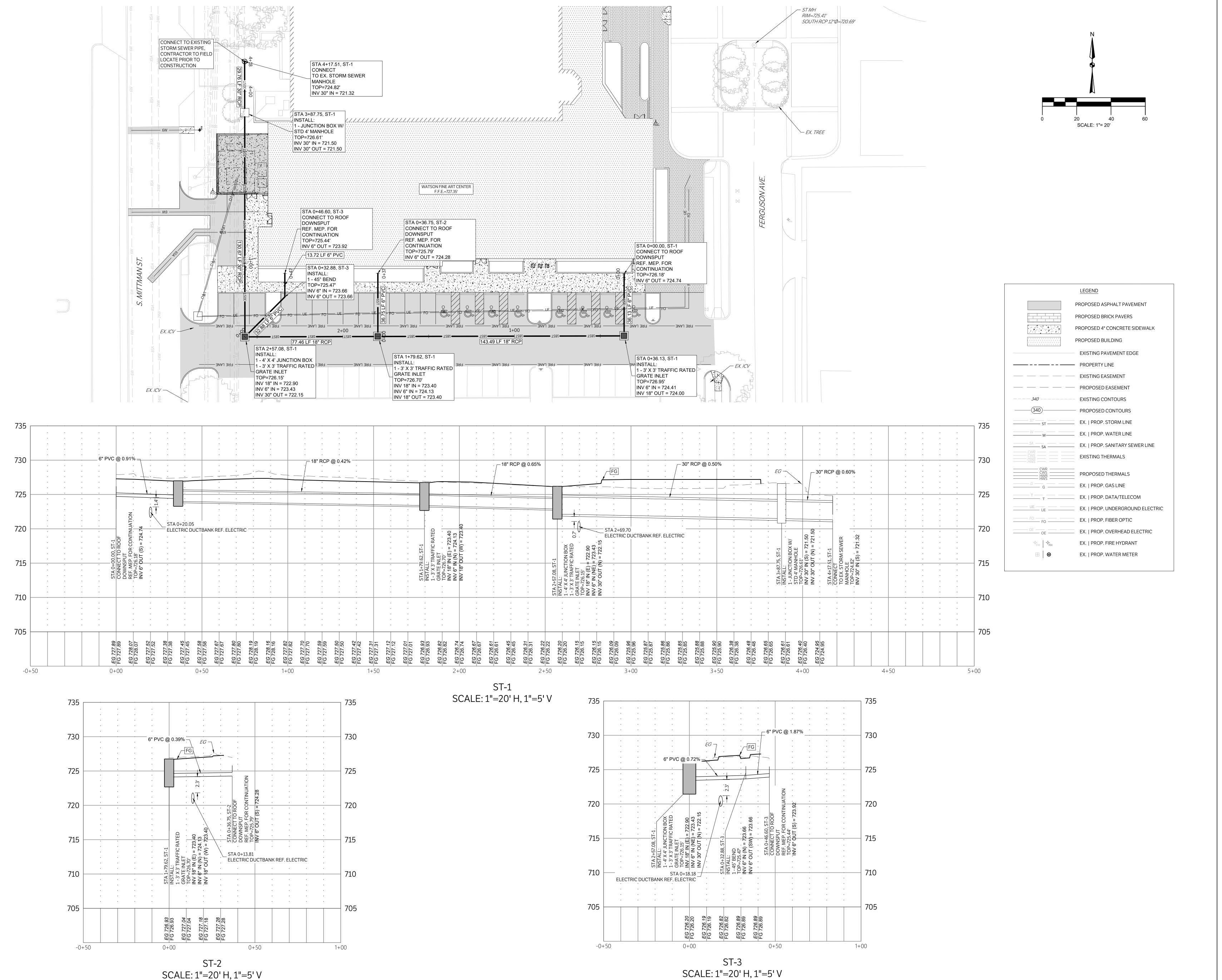
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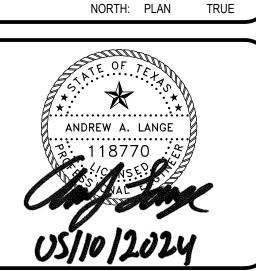


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KEY PLAN

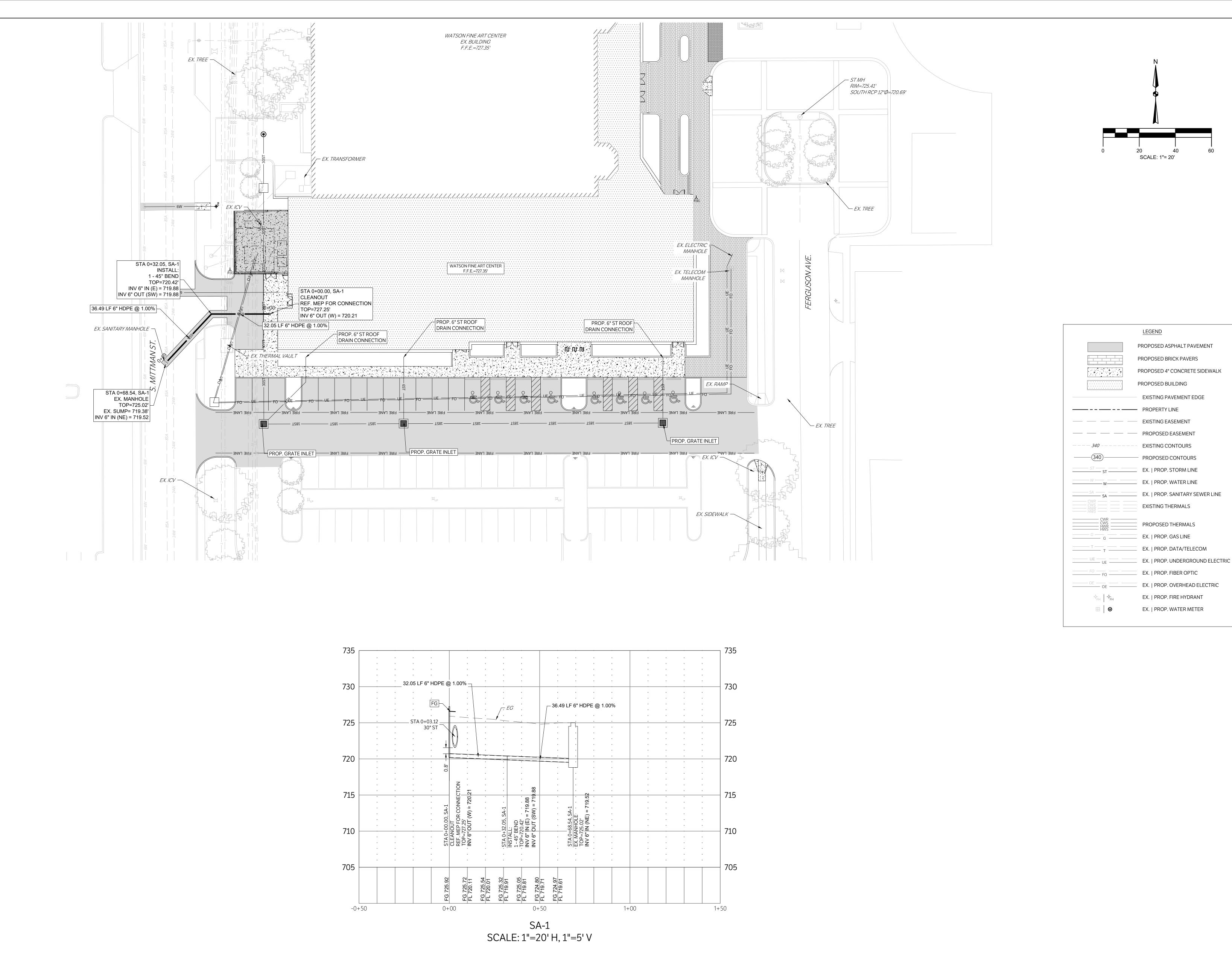


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PROFILES

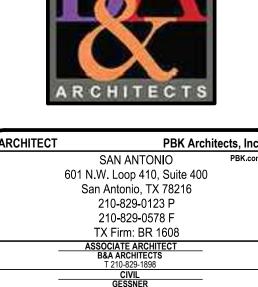
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SCALE: 1"= 20'

LEGEND

PROPOSED ASPHALT PAVEMENT

PROPOSED 4" CONCRETE SIDEWALK

PROPOSED BRICK PAVERS

PROPOSED BUILDING

EXISTING THERMALS

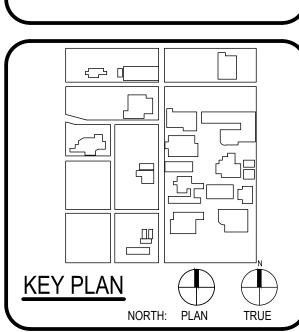
PROPOSED THERMALS

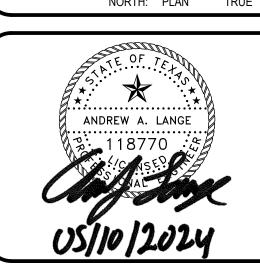
EX. | PROP. FIRE HYDRANT

EX. | PROP. WATER METER

EXISTING PAVEMENT EDGE

A L A M O C O L L E G COLLEGESST. PHILIP'S COLLEGE





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SANITARY PLAN & PROFILES

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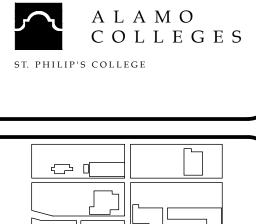
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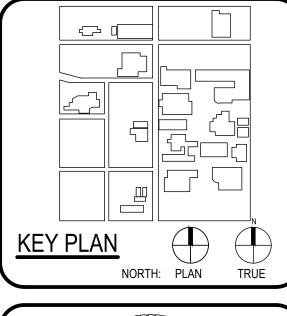
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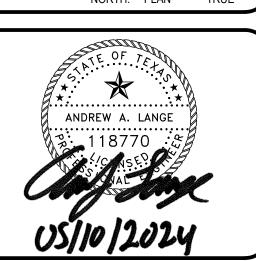












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WATER PLAN & **PROFILES**

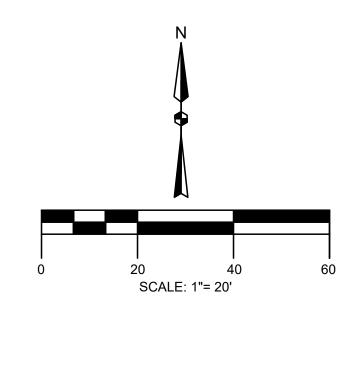
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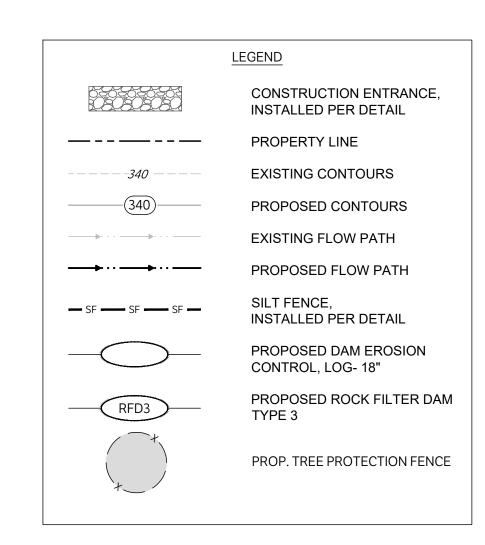
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WATSON FINE ART CENTER F.F.E.=727.351

MARTIN LUTHER KING DR.





EROSION CONTROL NOTES: OWNER INFORMATION:

PROJECT NAME:

ST PHILLIPS COLLEGE WATSON FINE ARTS CENTER BLACK BOX ADDITION

PROJECT LOCATION: ST PHILLIPS COLLEGE MARTIN LUTHER KING DR

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

LAND USE: HIGHER EDUCATION LAND COVER: >90% IMPERVIOUS SCS CURVE NUMBER: 95 RECEIVING WATERS: SALADO CREEK

SEGMENT NO. OF CLASSIFIED WATER BODY: SALADO CREEK

BASIN NAME: SAN ANTONIO RIVER

EXISTING SITE CONDITIONS

SOIL INFORMATION HYDROLOGIC SOIL GROUP: D

POST DEVELOPED SITE CONDITIONS LAND USE: HIGHER EDUCATION

NATURE OF ACTIVITIES ACADEMIC BLDG

SEQUENCE OF MAJOR ACTIVITIES

INSTALL SILT FENCE AT STOCK PILE AREAS . CLEARING, GRADING, GENERAL CONSTRUCTION SITE.

INSTALL FILTER ELEMENTS IMMEDIATELY AFTER DISTURBANCE AND/OR GRADING OPERATIONS. AFTER ESTABLISHMENT OF GRASS, REMOVE ALL TEMPORARY EROSION CONTROL;

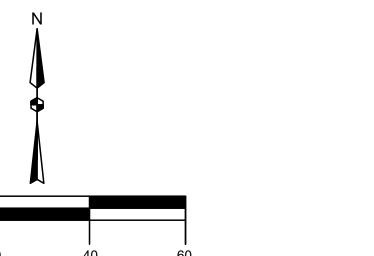
5. SEED ALL AREAS NOT HAVING PERMANENT GRASS COVERAGE AFTER APPROVAL BY COUNTY INSPECTOR.

GENERAL EROSION CONTROL NOTES

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.

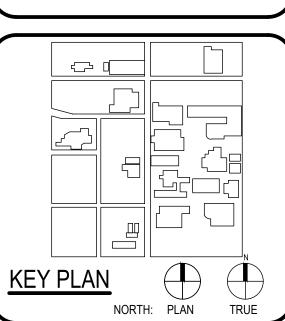
2. CONTRACTOR TO CONTACT TEXAS 811 AND LOCAL UTILITY PROVIDERS TO LOCATE EXISTING UTILITIES PRIOR TO CONSTRUCTION. CONTACT GESSNER ENGINEERING IF CONFLICTS OCCUR.

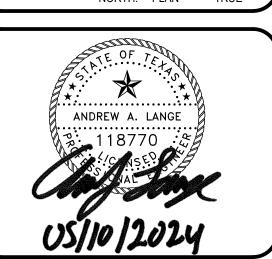
- 3. ALL DISTURBED AREAS NOT TO BE PAVED ARE TO HAVE ESTABLISHMENT OF GRASS. 4. ALL SWALE AREAS (BOTTOM WIDTHS & SIDE SLOPES) ARE TO BE PREPARED AND HYDROMULCHED FOR PERMANENT ESTABLISHMENT OF VEGETATION. PRIOR TO HYDROMULCHING OPERATIONS, CONTRACTOR TO REPLACE TOPSOIL TO A DEPTH OF 6". TOPSOIL IS TO 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 8. THE CONTRACTOR SHALL UNDERTAKE PROPER METHODS TO REDUCE DUST GENERATION FROM THE
- 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.



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

COLLEGES ST. PHILIP'S COLLEGE





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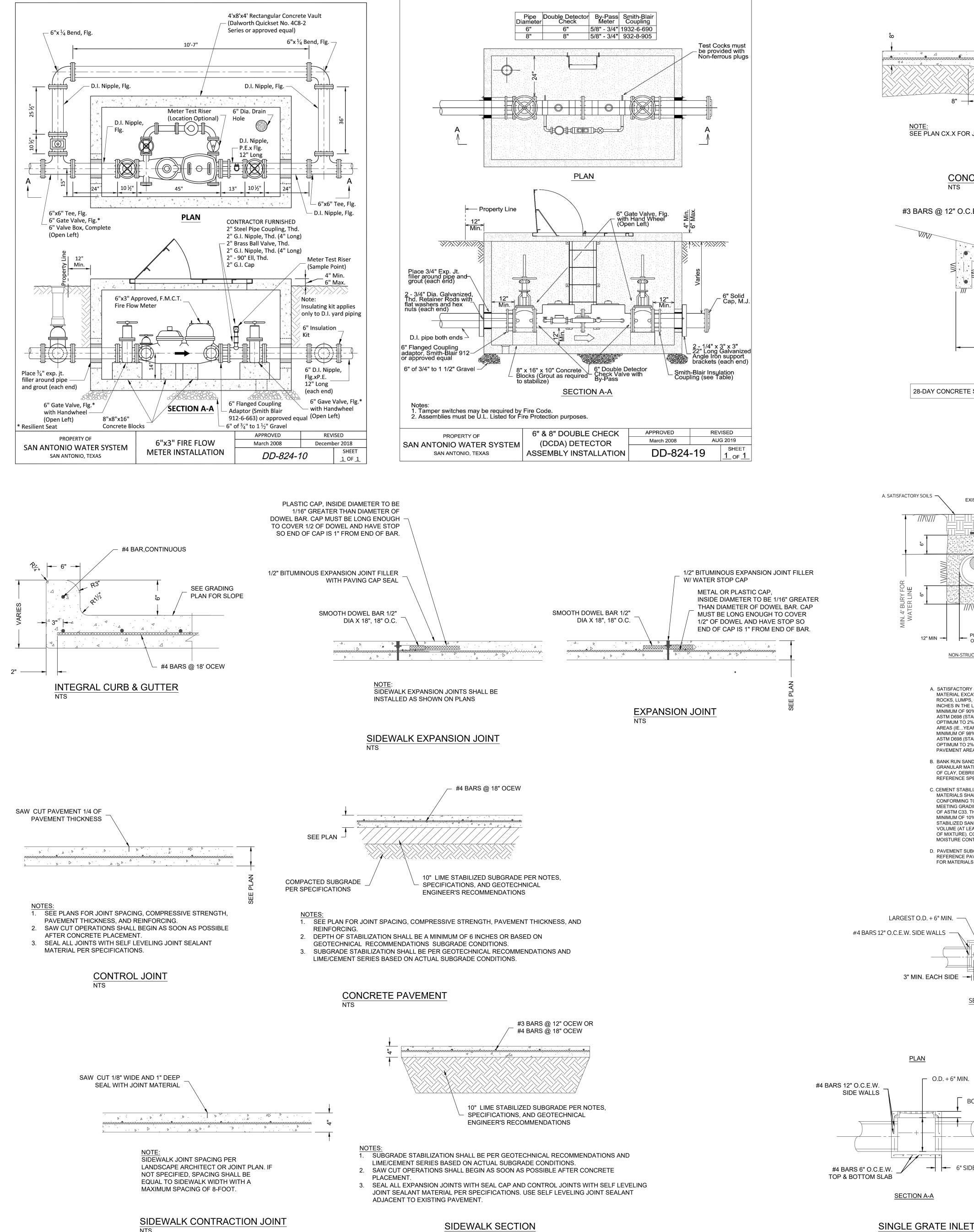
EROSION CONTROL

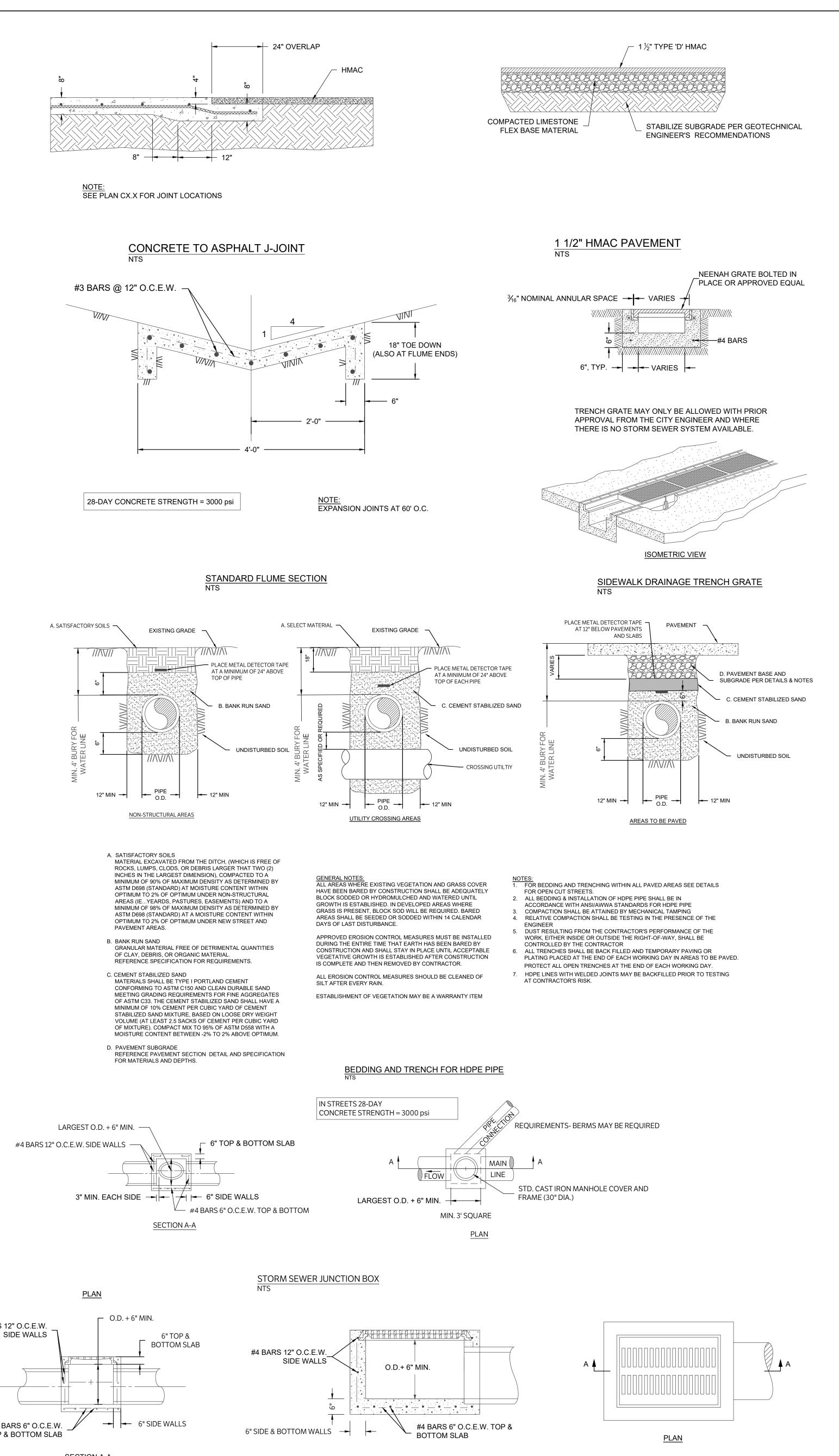
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SECTION A-A

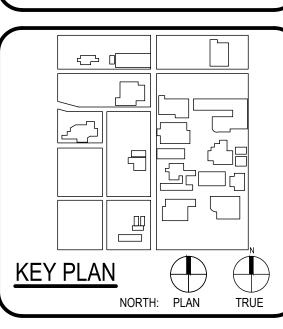
GRATE INLET

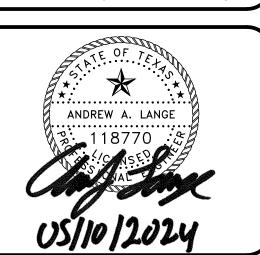




ARCHITECT PBK Architects, Inc SAN ANTONIO 601 N.W. Loop 410, Suite 400 San Antonio, TX 78216 210-829-0123 P 210-829-0578 F TX Firm: BR 1608 STRUCTURAL LUNDY & FRANKE ENGINEERING ENVELOPE BEAM PROFESSIONALS

ALAMO COLLEGES ST. PHILIP'S COLLEGE





Alamo Colleges PROJECT NUMBER 230462 DRAWING HISTORY Description **ISSUE FOR PERMIT BUILDING NUMBER DETAILS**



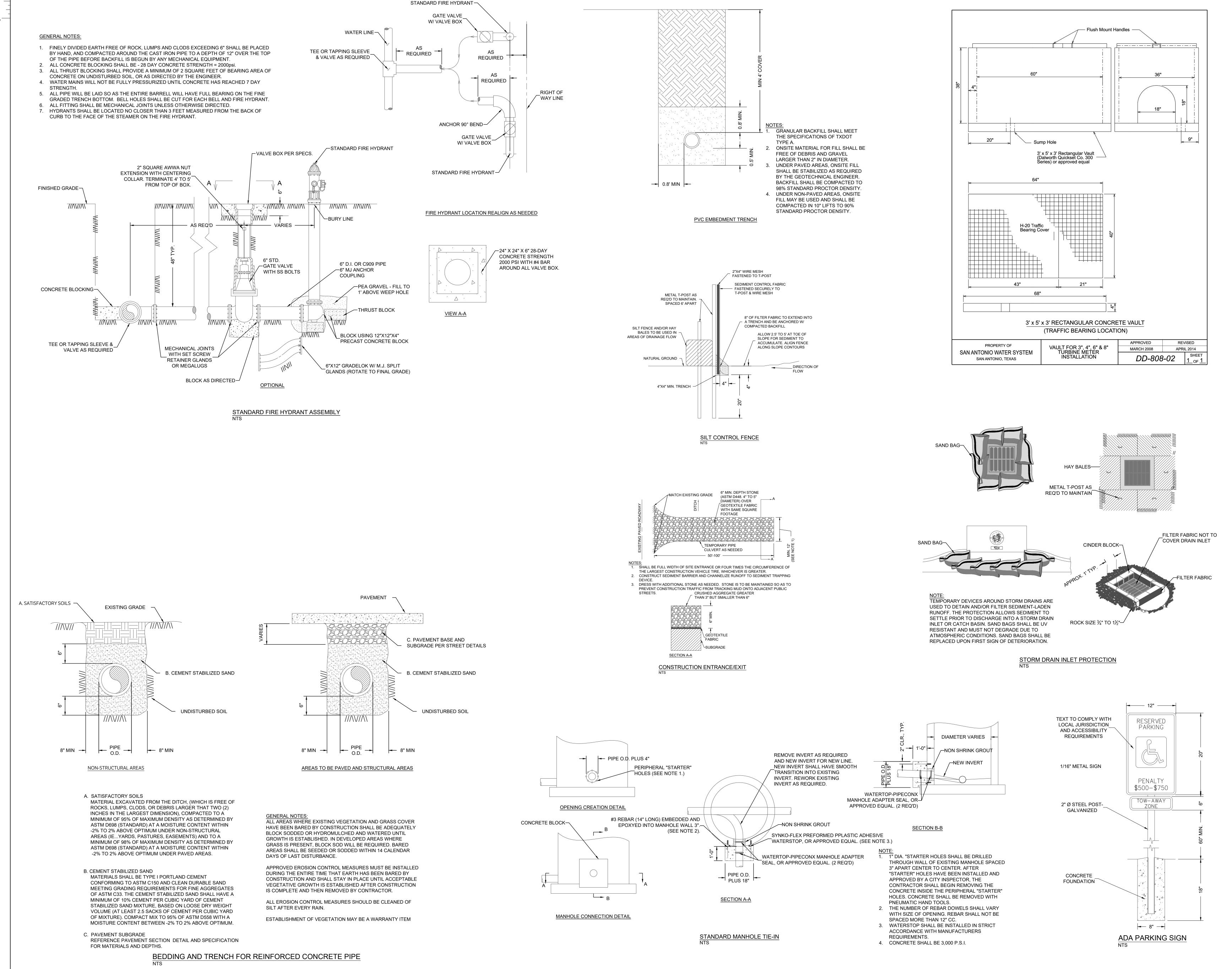
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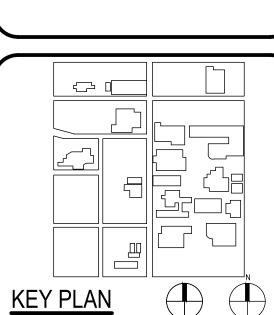




VFAC Black Box Addition PKG 1

1 Martin Luther King Dr.,

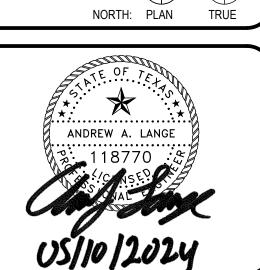
1 Antonio, TX, 78203

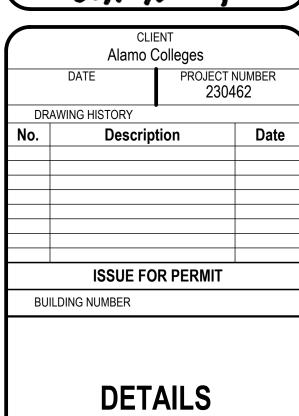


ST. PHILIP'S COLLEGE

ALAMO

COLLEGES





C1201

TYPE W/B SIZE #1 BORDEN STL. GRATING GROUTED JOINT-RETAINER

___\ \ \

- 1 OF 4-#7 DOWELS

AT AREAS ALONG ADA

GRATING SHALL SPAN IN

TRAFFIC FLOW AND ADD'L

L 3x3x1/4 W/ 2-EMBED PL

3/8" ALLEN HEAD BOLT

OUTSIDE OF BOLT HEAD

WELD 3/16" PLATE

BETWEEN BEARING

- TACK WELD NUT

TO ANGLE

ACESSIBLE ROUTES,

PERPENDICULAR TO

1/2"x5x0'-5" SHALL BE

PROVIDED AS SHOWN

TO BE ROUND

- L 2 X 2 X 1/4 X 0'-6"

SECTION "1A"

L2X2X1/4

W/ 2-3/8"Ø X 0'-4" H.C.A.

GRATING, PROVIDE @

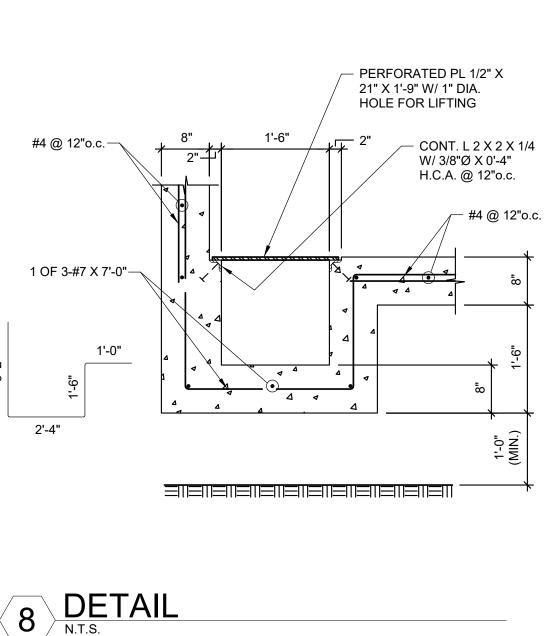
AREAWALL ENDS ONLY

DRILL HOLES IN ANGLE IN

FIELD AFTER POSITIONING

DIRECTION

CONSTRUCTION JOINT



1. PRECAST CONCRETE EARTH RETAINERS SHALL BE 1 1/2" THICK 2. INSTALL ON A SLIGHT BATTER AND WIPE ALL JOINTS WITH 3. BOTTOM EDGE OF RETAINERS SHALL BE SET IN 3" DEEP CONTINUOUS GROOVES. NO ADDITIONAL REINF. REQUIRED TOP BARS 4 DETAIL N.T.S.

STEEL FRAMING NOTES:

SF-1 WIDE FLANGE STRUCTURAL STEEL SHALL CONFORM TO ASTM A992, FY=50 KSI. STRUCTURAL PIPE SHALL CONFORM TO ASTM A53, GRADE B, FY= 35. STRUCTURAL TUBING SHALL CONFORM TO ASTM A500, GRADE B, FY=46 KSI, ALL OTHERS SHALL CONFORM TO ASTM A36, FY=36 KSI. CONNECTIONS SHALL CONFORM TO REQUIREMENTS OF AISC.

<u>SF-2</u> STEEL JOISTS AND BRIDGING SHALL CONFORM TO STEEL JOIST INSTITUTE SPECIFICATIONS. STEEL JOISTS HAVE BEEN DESIGNED FOR A NET UPLIFT LOAD OF 10 PSF. THE CONTRACTOR SHALL PROVIDE ALL JOIST BRIDGING REQUIRED FOR NET UPLIFT LOAD GIVEN.

SF-3 JOIST ERECTION PRECAUTION (OSHA REQUIREMENT) AT ALL COLUMNS NOT FRAMED BY BEAMS IN AT LEAST TWO DIRECTIONS: THE JOIST CLOSEST TO THE COLUMN ON BOTH SIDES OF THE BEAM SHALL BE BOLTED TO THE BEAM.

SF-4 ROOF DECK IS 1-1/2"-22 GAUGE TYPE B RIB DECK COMPLYING WITH STEEL DECK INSTITUTE; WITH MINIMUM I=.183 IN. 4/FT., SN=.192 IN. 3/FT. ATTACH TO SUPPORTING MEMBERS BY PLUG WELDING DIRECTLY THROUGH BOTTOM OF THE RIBS AT EVERY SUPPORT. WELD EACH SHEET AT BOTH SIDES AND AT OTHER RIBS SO THAT SPACING BETWEEN WELDS ACROSS THE WIDTH OF EACH SHEET DOES NOT EXCEED 18", IN ACCORDANCE WITH STEEL DECK INSTITUTE'S SPECIFICATIONS.

SF-5 FLOOR SLAB ON STEEL JOISTS SHALL BE 3" REGULAR WEIGHT CONCRETE SLAB (REINFORCED WITH 6x6 - W2.9xW2.9 WWF) ON GALVANIZED HEAVY DUTY 9/16" DEEP 28 GAUGE CORRUGATED STEEL DECK WITH MINIMUM I=.011 IN. 4/FT., S=.035 IN. 3/FT. (VULCRAFT TYPE 0.6C OR EQUAL). ATTACH STEEL DECK TO SUPPORTING MEMBERS BY PLUG WELDING AT EVERY SUPPORT IN ACCORDANCE WITH STEEL DECK INSTITUTE'S SPECIFICATIONS.

<u>SF-6</u> WHERE METAL DECK IS SUPPORTED CONTINUOUSLY WELD DECK TO STEEL SUPPORT AT 12"o.c.

SF-7 WHERE FLOOR DECK CHANGES DIRECTIONS, PROVIDE DECK SUPPORT L 3 X 2-1/2 X 3/16 (L.L.H.) ACROSS ENDS OF SEATED JOISTS. **SF-8** TYPICAL STEEL JOIST SEAT ANCHORAGE: FIELD WELD EACH SEAT WITH TWO 1" LONG BY 1/8" WELDS FOR K-SERIES AND TWO 2" LONG BY 1/4"

SF-9 STRUCTURAL FRAMING CONNECTIONS SHALL BE SEATED COLUMN CAPS, CLIP ANGLES OR WEB PLATES AS INDICATED ON DETAILS. USE A325 HIGH STRENGTH BOLTS OR WELDS SUFFICIENT TO DEVELOP REACTION CAPACITY ALLOWABLE UNIFORM LOAD/SPAN DIVIDED BY TWO AS SHOWN IN AISC MANUAL SECTION 3 (15th EDITION).

WELDS FOR LH-SERIES.

<u>SF-10</u> DECK STOP ANGLES, FASCIA ANGLES, HANGERS, CLIPS AND OTHER STRUCTURAL AND MISCELLANEOUS MEMBERS SHALL BE CONNECTED OR JOINED USING 3/16" OR LARGER FILLET OR GROOVE WELDS AS REQUIRED FOR ADEQUATE CONNECTION.

<u>SF-11</u> WHERE OPENINGS THROUGH ROOF ARE REQUIRED, FRAME AS

<u>SF-12</u> WHERE BRACING ANGLES ARE SHOWN BETWEEN END OF JOIST BOTTOM CHORD AND SUPPORTING BEAM OR GIRDER, MAKE THESE CONNECTIONS AFTER ALL DEAD LOAD ON JOISTS IS IN PLACE. TEMPORARY BRACING SHALL REMAIN IN PLACE UNTIL FINAL CONNECTIONS ARE

SF-13 JOIST BRACES (AT EACH COLUMN) OCCUR AT OR NEAR EVERY INTERIOR COLUMN AT THREE JOISTS THAT ARE CLOSEST TO THE COLUMN CENTERLINE; SEE PLAN AND DETAILS.

SF-14 PROVIDE ADEQUATE AND APPROPRIATE STRUCTURAL STEEL FRAMING APPROVED BY THE ENGINEER FOR THE SUPPORT AND MOUNTING OF MECHANICAL EQUIPMENT RESTING ON, OR SUSPENDED FROM, STEEL JOISTS. NO CONCENTRATED LOADS, HANGERS, ETC. SHALL BE ATTACHED TO THE TOP OR BOTTOM CHORD OF JOIST EXCEPT AT "PANEL POINTS" (THE JUNCTURES OF CHORDS AND DIAGONAL WEB MEMBERS). JOISTS SHALL BE MODIFIED OR STRENGTHENED TO CARRY SUCH LOADS.

SF-15 STEEL STAIRS TO BE DESIGNED AND DETAILED FOR LL=100 PSF BY TEEL FABRICATOR UNDER DIRECT SUPERVISION OF A LICENSED PROFESSIONAL ENGINEER (SPECIALITY ENGINEER). SHOP DRAWINGS TO BE SIGNED AND SEALED BY THE SPECIALITY ENGINEER.

WOOD FORMED GRADE BEAM OR WALL, TYPICAL -AIR SPACE-— CONT. - UNDISTURBED EARTH **GROOVE** OR COMPACTED FILL

APPROXIMATELY 3'-0" LONG, REINFORCED WITH 6 X 6 W1.4 X W1.4 WWF,

CONCRETE NOTES:

CN-1 CONCRETE SHALL BE LABORATORY DESIGNED TO DEVELOP MINIMUM 28-DAY COMPRESSIVE STRENGTHS AS GIVEN BELOW. REFER TO SPECIFICATIONS FOR AGGREGATES, CEMENT, ADMIXTURES, ETC.

DRILLED PIERS & PIER CAPS. .4.000 PSI GRADE BEAMS, SLABS-ON-GRADE. BEAMS AND FLAT SLAB FLOOR SYSTEM.4,000 PSI BEAM, GIRDER, AND JOIST FLOOR SYSTEM. ..4,000 PSI SLABS ON METAL FORMS. COMPOSITE SLABS ON METAL FORMS . . .4,000 PSI COLUMNS AND WALLS . . . SEE SCHEDULE PRECAST CONCRETE.

NOTE: FLY ASH WILL BE PERMITTED UP TO 20% PORTLAND CEMENT REPLACEMENT FPR TYPE I, II, III IV, NO FLY ASH FOR TYPE IL, REFER TO

SPECIFICATIONS.

TO THE FOLLOWING ASTM SPECIFICATIONS: A615-GR 60. . FOOTING SPIRALS . WELDED WIRE FABRIC A615-GR 60 . BEAM STIRRUPS, COLUMN TIES A615-GR 60. . .ALL OTHER REINFORCING **ASTM A108-60T** . HEADED CONCRETE ANCHORS ASTM A496DEFORMED BAR ANCHORS

CN-3 DETAILING OF CONCRETE REINFORCEMENT BARS AND ACCESSORIES SHALL BE IN ACCORDANCE WITH LATEST ACI MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES (ACI 315). BAR SUPPORTS SHALL HAVE PLASTIC COATED LEGS OR BE HOT DIPPED GALVANIZED AFTER FABRICATION.

CN-2 REINFORCING STEEL SHALL BE FROM NEW BILLET AND SHALL CONFORM

CN-4 PROVIDE BAR LAPS AND SPLICES PER REINFORCING BAR LAP SPLICE TABLE BELOW. SEE "CORNER DETAILS" FOR CONTINUOUS BARS AT CORNERS. SPIRALS SHALL BE LAPPED 1-1/2 TURNS. WELDED WIRE MESH SHALL BE LAPPED 8" MINIMUM AT SPLICE POINTS, OR 1-1/2 MESHES, WHICHEVER IS

CN-5 CONTRACTOR SHALL PROVIDE NECESSARY CONSTRUCTION JOINTS IN MONOLITHIC CONCRETE FORMING SO THAT NOT MORE THAN 400 CUBIC YARDS IS POURED IN ONE DAY. LOCATION OF CONSTRUCTION JOINTS MUST HAVE PRIOR APPROVAL OF STRUCTURAL ENGINEER OF RECORD AND SHALL GENERALLY BE LOCATED AT OR NEAR MID-POINTS OF SPANS OF SLAB, BEAMS AND WALLS. ALL CONTINUOUS REINFORCING SHALL BE CARRIED THROUGH THE JOINT. SEE DETAILS FOR CONTINUOUS KEY BETWEEN ADJACENT POURS.

CN-6 SEE ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR LOCATION AND SIZES OF ALL SLAB OPENINGS AND SLEEVES, INSERTS, ANCHORS AND BOLTS REQUIRED BY ABOVE.

CN-7 REFER TO ARCHITECTURAL DRAWINGS FOR ALL FLOOR FINISHES, DIMENSIONS AND LOCATIONS OF SLAB DROPS AND DEPRESSIONS.

CN-8 MECHANICAL AND ELECTRICAL CONDUITS IN SLABS SHALL RUN UNDER THE TOP LAYER OF SLAB REINFORCING OR WELDED WIRE FABRIC. PROVIDE A MINIMUM OF 1-1/2" CLEAR BETWEEN INDIVIDUAL CONDUITS, AND BETWEEN CONDUIT AND PARALLEL REINFORCING. DO NOT "BUNDLE" CONDUITS. CN-9 "HEADED CONCRETE ANCHORS" (HCA) SHALL BE OF 50,000 PSI STEEL ROD WITH UPSET ENDS, AUTOMATICALLY ARC WELDED THROUGH CERAMIC FERRULES, "NELSON CONCRETE ANCHORS" OR EQUAL.

MECHANICAL TESTING OF HCA IN SHOP MECHANICAL TESTS SHALL BE MADE BEFORE INITIATION OF PRODUCTION WELDING AND AFTER ANY EQUIPMENT MAINTENANCE TO ENSURE THAT THE WELDING SCHEDULE IS SATISFACTORY. THEY MAY ALSO BE MADE DURING THE PRODUCTION RUN OR AT THE BEGINNING OF A SHIFT TO ENSURE THAT WELDING CONDITIONS HAVE NOT CHANGED. ARC WELDED STUDS ARE TESTED BY BENDING THE STUD. BENDING MAY BE DONE BY STRIKING THE STUD WITH A HAMMER OR BY BENDING IT USING A TUBE OR PIPE, THE ANGLE THROUGH WHICH THE STUD WILL BEND WITHOUT WELD FAILURE WILL DEPEND ON THE STUD AND BASE METAL COMPOSITIONS, CONDITIONS (COLD WORKED, HEAT TREATED), AND STUD DESIGN. ACCEPTABLE BENDING SHOULD BE DETERMINED WHEN THE WELDING PROCEDURE SPECIFICATION IS ESTABLISHED OR FROM THE APPLICABLE WELDING CODE. BEND TESTING MAY DAMAGE THE STUD; THEREFORE, IT SHOULD BE DONE ON QUALIFICATION SAMPLES ONLY. THE METHOD USED TO APPLY TENSILE LOAD ON AN ARC WELDED STUD WILL DEPEND ON THE STUD DESIGN. SPECIAL TOOLING MAY BE REQUIRED TO GRIP THE STUD PROPERLY WITHOUT DAMAGE, AND A SPECIAL LOADING DEVICE MAY BE NEEDED.

MECHANICAL TESTING OF HCA IN FIELD MECHANICAL TESTS SHALL BE MADE IN THE FIELD BEFORE PLATES ARE INSTALLED IN $\,$ CONCRETE. THE CONTRACTOR SHALL SUPPLY AT A MINIMUM ONE ADDITIONAL PER 50 PLATES OF EACH TYPE OR ADDITIONAL STUDS SHALL BE PLACED ON SPECIAL CONFIGURATION PLATES AND MEMBERS, THESE STUDS SHALL BE TESTED IN THE FIELD. ARC WELDED STUDS ARE TESTED B BENDING THE STUD. BENDING MAY BE DONE BY STRIKING THE STUD WITH A HAMMER OR BY BENDING IT USING A TUBE OR PIPE. THE ANGLE THROUGH WHICH THE STUD WILL BEND WITHOUT WELD FAILURE WILL DEPEND ON THE STUD AND BASE METAL COMPOSITIONS, CONDITIONS (COLD WORKED, HEAT TREATED), AND STUD DESIGN, BEND TESTING MAY DAMAGE. THUS THEY MAY NOT BE USED. THE STUD; THEREFORE, IT SHOULD BE DONE ON QUALIFICATION SAMPLES ONLY. THE METHOD USED TO APPLY TENSILE LOAD ON AN ARC WELDED STUD WILL DEPEND ON THE STUD DESIGN. PROPERLY WITHOUT DAMAGE, AND A SPECIAL LOADING DEVICE MAY BE NEEDED.

CN-10 REFER TO SPECIFICATIONS FOR TESTING REQUIREMENTS. ALL TESTING SHALL BE AT POINT OF DISCHARGE. IF PUMP IS USED, TESTING SHALL BE AT THE END OF THE HOSE.

| REINFORCING BAR LAP SPLICE TABLE (MASONRY) | | | | | | | | | |
|--|----------|------|----------------------------------|--|--|--|--|--|--|
| DAD | | (| CONCRETE f'c (PSI) AND LAP CLASS | | | | | | |
| BAR SIZE | POSITION | 2500 | 3000 | | | | | | |
| SIZE | | В | В | | | | | | |
| #3 thru #6 | ALL | 40db | 40db | | | | | | |
| #7 thru #11 | ALL | 72db | 72db | | | | | | |
| REINFORCING BAR LAP SPLICE TABLE (BEAMS AND COLUMNS) | | | | | | | | | |
| CONCRETE f'c (PSI) AND LAP CLASS | | | | | | | | | |

| BAR SIZE | | CONCRETE f'c (PSI) AND LAP CLASS | | | | | |
|-------------|----------|----------------------------------|------|------|------|--|--|
| | POSITION | 3000 | 4000 | 5000 | 6000 | | |
| | | В | В | В | В | | |
| #3 thru #6 | ALL | 74db | 64db | 58db | 50db | | |
| #7 thru #11 | ALL | 93db | 80db | 72db | 60db | | |
| | | | | | | | |

| | | CONCRETE f'c (PSI) AND LAP CLASS | | | | SS | |
|-------------|---------------------------|----------------------------------|---------------|---------------|---|----|--|
| BAR SIZE | POSITION | 3000 B | 4000 B | 5000 B | • | | |
| | 0.7511.000/1515 | 75.11 | 04.11 | 50.11 | | | |
| #3 thru #6 | 0.75" COVER 2.0" COVER | 75db 46db | 64db 40db | 58db 40db | | | |
| #7 thru #11 | 0.75" COVER 2.0" COVER | 138db 74db | 120db 65db | 106db 56db | | | |
| | | | | | | | |

REBAR LAP SPLICE TABLE NOTES:

RL-1 "db" DENOTES BAR DIAMETER.

RL-4 FOR LIGHTWEIGHT CONCRETE, MULTIPLY BY 1.3.

RL-2 ALL SPLICES SHALL BE CLASS B UNLESS OTHERWISE NOTED.

RL-3 VALUES APPLY TO ALL BARS WITH MINIMUM CONCRETE COVER 1.0db AND MINIMUM CENTER TO CENTER SPACING OF 2.0db.

<u>RL-5</u> THE CHART ABOVE IS A SIMPLIFIED AND CONSERVATIVE METHOD FOR MEETING THE REQUIREMENTS OF ACI 12.2.2. THE CONTRACTOR MAY SUBMIT A DETAILED REBAR SPLICING PLAN IN ACCORDANCE WITH ACI 12.2.2 FOR APPROVAL.

GENERAL NOTES:

GN-1 THIS STRUCTURE IS DESIGNED IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE (2021) AS AMENDED AND ADOPTED BY THE GOVERNING AUTHORITY, AND APPLICABLE INDUSTRY STANDARDS (AISC, ACI,

GN-2 THE DESIGN LOADS ARE: SUPERIMPOSED DEAD LOADS

MECHANICAL EQUIPMENT AS INDICATED ON PLANS FLOOR LIVE LOAD CORRIDOR . . .100 PSF OFFICES. 50 PSF **MOVEABLE PARTITIONS** MECHANICAL ROOMS. (NON REDUCIBLE)

MECHANICAL DUCTS/CONDUITS, CEILING, ETC...... 5 PSF

ASSEMBLY AREAS: 60 PSF FIXED SEATS . . LOBBIES . . 100 PSF MOVEABLE SEATS. . 100 PSF STAGES & PLATFORMS . . 125 PSF CATWALKS . . 40 PSF ROOF LIVE LOAD

FLAT ROOF. . 20 PSF PITCHED ROOF . 20 PSF **ROOF SNOW LOAD** GROUND SNOW Pg . 5 PSF SNOW EXPOSURE FACTOR Ce. SNOW LOAD IMPORTANCE FACTOR Is . THERMAL FACTOR Ct..

WIND LOAD BASIC WIND SPEED (ULTIMATE DESIGN). **BUILDING CATEGORY.** WIND EXPOSURE . .

SPECTRAL RESPONSE ACCELERATION Ss.

EARTHQUAKE LOADS

SITE CLASS

BACKFILL

FOOTING BEARING

SPECTRAL RESPONSE ACCELERATION S . . SPECTRAL RESPONSE COEF. SDs. . . 14% SPECTRAL RESPONSE COEF. SD. SEISMIC DESIGN CATEGORY. **RETAINING WALLS** GLOBAL STABILITY ANALYSIS FACTOR OF SAFETY 1.5 ..CANTILEVER **EQUIVALENT FLUID PRESSURE**

SURCHARGE. 200 PSF **GN-3** ALLOWABLE STRESS DESIGN LOAD COMBINATIONS (FOR ALL DESIGNS EXCEPT CONCRETE)

DRAINED/ONSITE

D+(Lr, or S or R) D+0.75L+0.75(Lr, or S or R) D+0.75L+0.75(0.6W)+0.75(Lr or S or R) 0.6D+0.6W

STRENGTH DESIGN LOAD COMBINATIONS (FOR CONCRETE DESIGN)

1.2D+1.6L+0.5(Lr, or S or R) 1.2D+1.6(Lr, or S or R)+(L or 0.5W) 1.2D+1.0W+L+0.5(Lr, or S or R) 1.2D+E+L+0.2S

GN-4 PRIOR TO START OF CONSTRUCTION, THE CONTRACTOR AND FABRICATOR SHALL VERIFY ALL QUANTITIES, DIMENSIONS AND CONDITIONS AND NOTIFY ARCHITECT/STRUCTURAL ENGINEER OF RECORD OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.

<u>GN-5</u> UTILITIES PENETRATING BUILDING SHALL BE FLEXIBLE, USING SLEEVE JOINTS, BENDS, LOOPS, ETC. TO PERMIT MOVEMENTS DUE TO EXPANSIVE UNDERLYING SOILS. **GN-6** PROVIDE ADEQUATE AND APPROPRIATE STRUCTURAL STEEL FRAMING

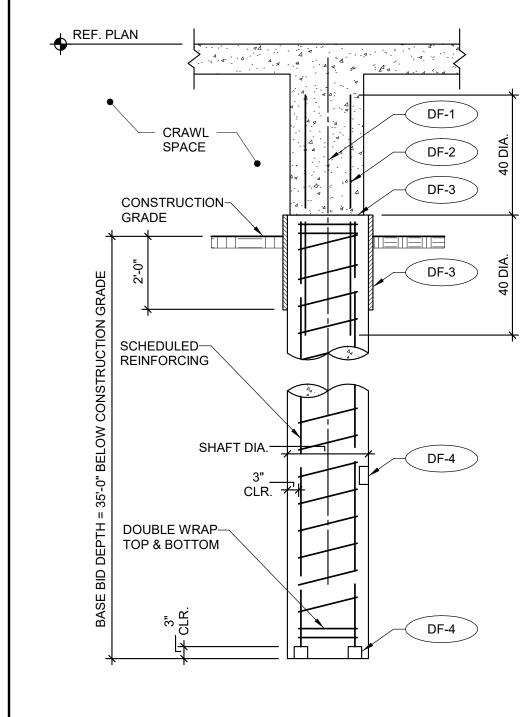
FOR THE SUPPORT AND MOUNTING OF MECHANICAL EQUIPMENT RESTING ON, OR SUSPENDED FROM, STEEL SUPERSTRUCTURE. **GN-7** THE STRUCTURAL DRAWINGS FOR THIS PROJECT ARE COPYRIGHTED AND SHALL NOT BE REPRODUCED FOR USE AS FABRICATOR'S ERECTION

DRAWINGS. THE CONTRACTOR SHALL ALLOW ADEQUATE TIME AND EXPENSE

FOR SUBCONTRACTORS TO PRODUCE THEIR OWN ORIGINAL ERECTION AND

PLACEMENT DRAWINGS. **GN-8** THE STRUCTURE HAS BEEN DESIGNED TO RESIST DESIGN LOADS ONLY AS A COMPLETED STRUCTURE. ANY PROPOSED APPLICATION OF CONSTRUCTION LOADS OR OF ANY LOADS TO THE PARTIALLY COMPLETED STRUCTURE WHICH EXCEED THE DESIGN LOADS WILL REQUIRE REANALYSIS

AND PROBABLE REDESIGN. **GN-9** PROVIDE 1.0 TONS OF EXTRA REINFORCING STEEL, DETAILING, LABOR FOR PLACING AND FABRICATION AS DIRECTED IN THE FIELD AND SHOP.





| FOOTING SCHEDULE | | | | | | | |
|------------------|------|------------|----------------------|--------|--|--|--|
| MARK | | SHAF | T | DEPTH | | | |
| IVIARK | DIA. | VERT. BARS | SPIRAL | DEPTH | | | |
| F1 | 30" | 12-#10 | 3/8" DIA. @ 6" PITCH | 35'-0" | | | |
| F2 | 24" | 12-#9 | 3/8" DIA. @ 6" PITCH | 35'-0" | | | |
| F3 | 18" | 8-#8 | 3/8" DIA. @ 6" PITCH | 35'-0" | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

DRILLED FOOTING NOTES:

90235311, DATED: JAN 30, 2024

DF-1 FOOTING SHALL BE LOCATED ON CENTERLINES OF COLUMN ABOVE UNLESS DIMENSIONED OTHERWISE ON PLAN. WHERE NO COLUMN OCCURS, LOCATE ON CENTERLINE OF BEAM OR PILASTER UNLESS SHOWN OTHERWISE ON PLANS AND

<u>DF-2</u> PROVIDE DOWELS FROM FOOTING INTO CONCRETE ABOVE USING SAME BAR SIZE AND PATTERN AS FOR SCHEDULED COLUMN ABOVE. WHERE NO COLUMN OCCURS, USE 4-#7 DOWELS, STANDARD 90 OR 180 DEGREE END HOOKS MAY BE USED TO DEVELOP REQUIRED EMBEDMENT WHERE SPACE LIMITATIONS PROHIBIT

<u>DF-3</u> SHAFT CUT-OFF ELEVATION SHALL BE AT SOFFIT OF BEAM, WALL OR PIER CAP. FORM TOP OF SHAFT WITH FIBERFORM AT LEAST 2'-0" BELOW GRADE, OR DEEPER IF IMPROPERLY DRILLED OVERSIZE OR OUT OF ROUND, AS NOTED IN SPECIFICATION.

<u>**DF-4**</u> REINFORCING CAGE SHALL BE HELD SECURELY AWAY FROM EARTH AT SIDES & BOTTOM BY SETS OF 3 PRECAST CONCRETE SPACER BLOCKS EVERY 8'-0" ALONG CAGE AND AT BOTTOM. DO NOT RAISE CAGE OFF OF BOTTOM.

<u>**DF-5**</u> CASING IS REQUIRED, SECURE APPROVAL OF STRUCTURAL ENGINEER OF RECORD & REFER TO SPECIFICATIONS FOR PROCEDURES. <u>DF-6</u> SHAFT SHALL BE DRILLED PLUMB ALONG ITS TOTAL LENGTH WITHIN 1/2" PER

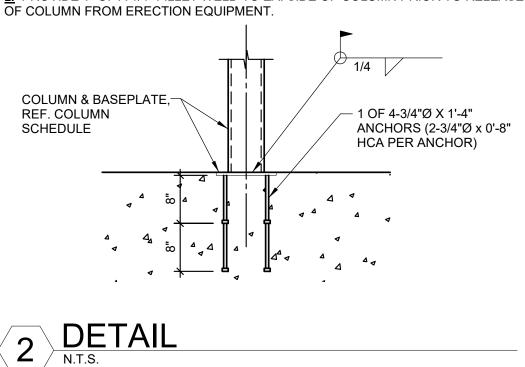
<u>**DF-7**</u> BOTTOM OF FOOTING SHALL BE CLEAN AND FREE OF ALL LOOSE MATERIALS AND RECOMPACTED CUTTING PRIOR TO PLACING CONCRETE.

DF-8 PLACEMENT OF CONCRETE AND REINFORCING IN SHAFT SHALL BE THE SAME DAY OF DRILLING. **DF-9** REFERENCE GEOTECHNICAL REPORT BY: TERRACON, PROJECT NUMBER:

COLUMN SCHEDULE CONN. WxDxt ANCHORS SECT. HSS4x4x3/8 1'-4" HCA 4-3/4" DIA. X HSS6x6x5/16 10 x 10 x 1 1'-4" HCA 12 x 12 x 1 HSS8x8x3/8 1'-4" HCA 4-3/4" DIA. X C4 8"Ø STD PIPI 12 x 12 x 1 1'-4" HCA 4-3/4" DIA. X 16 x 16 x 1 C5 12"Ø STD PIPE 1'-4" HCA

STEEL COLUMN NOTES:

1. COLUMN MARKS AT ANY LEVEL INDICATE THE TYPE COLUMN WHICH IS BELOW 2. PROVIDE 1" OF A 1/4" FILLET WELD TO EA. SIDE OF COLUMN PRIOR TO RELEASE



CONTRACTOR NOTE THE STRUCTURAL SYSTEM FOR THIS PROJECT SHALL NOT BE

CONSTRUCTED BY USING THE STRUCTURAL DRAWINGS ALONE. THESE DRAWINGS WERE DEVELOPED FROM DATA DERIVED PRIMARILY FROM THE ARCHITECTURAL DRAWINGS AND SECONDARILY FROM MEP, CIVIL AND OTHER DISCIPLINES' DOCUMENTS. IT IS INTENDED THAT CONSTRUCTION PROCEED BY UTILIZING ALL OF THE INFORMATION CONTAINED IN THE ENTIRE SET OF CONSTRUCTION DOCUMENTS TAKEN AS A WHOLE; FAILURE TO DO SO WILL RESULT IN ERRORS WHICH SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.

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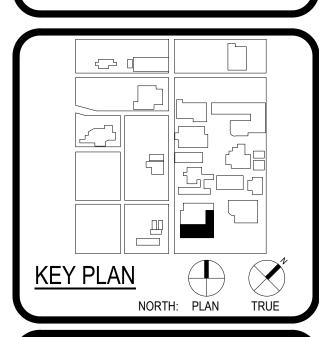


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TX FIRM REG. #3388







Alamo Colleges PROJECT NUMBER 2024/05/10 230462 DRAWING HISTORY Description **ISSUE FOR PERMIT**

NOTES, SECTIONS & **DETAILS**

| 7. WOOD CONSTRUCTION | | IBC 1704.6 | | |
|---|----------|--|---------------|---|
| A. PREFABRICATED STRUCTURAL ELEMENTS & ASSEMBLIES | N/A | INSPECT STRUCTURAL LOAD BEARING MEMBERS AND ASSEMBLIES. VERIFY THAT THE FABRICATOR MAINTAINS DETAILED FABRICATION AND QUALITY CONTROL PROCEDURES THAT PROVIDE A BASIS FOR INSPECTION CONTROL 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 CODE REQUIREMENTS FOR THE FABRICATOR'S SCOPE OF WORK. EXCEPTION: SPECIAL INSPECTIONS SHALL NOT BE REQUIRED WHERE THE FABRICATOR IS ENROLLED IN A NATIONALLY ACCEPTED INSPECTIONS PROGRAM ACCEPTABLE TO THE REGISTERED DESIGN PROFESSIONAL IS RESPONSIBLE CHARGE. | IBC 1705.5 | TECHNICAL REPRESENTATIVE UNDER DIRECTION OF LICENSED ENGINEER |
| B . SITE BUILT ASSEMBLIES | N/A | SITE BUILT ASSEMBLIES SHALL BE INSPECTED IN ACCORDANCE WITH IBC SECTION 1704.1 | IBC 1705.5 | LICENSED ENGINEER OR HIS/HER REPRESENTATIVE. |
| C . DIAPHRAGMS | N/A | HIGH LOAD DIAPHRAGMS SHALL BE INSPECTED IN ACCORDANCE WITH IBC SECTION 1704.1, AND SHEATHING CHECKED FOR PROPER GRADE, THICKNESS, SIZE OF FRAMING MEMBERS AT ADJOINING PANEL EDGES, NAIL/STAPLE DIAMETER AND LENGTH, AND FASTENER PATTERN. | IBC 1705.5.1 | |
| D . TRUSS BRACING | N/A | CHECK ALL REQUIRED PERMANENT AND LATERAL BRACING HAS BEEN INSTALLED ACCORDING TO STRUCTURAL DRAWINGS AND FABRICATOR DESIGN/SHOP DRAWINGS. | | |
| 8. LIGHT GAGE FRAME CONS | TRUCTION | IBC 1704.13 | | |
| A. PREFABRICATED STRUCTURAL ELEMENTS & ASSEMBLIES | N/A | INSPECT STRUCTURAL LOAD BEARING MEMBERS AND ASSEMBLIES. VERIFY THAT THE FABRICATOR MAINTAINS DETAILED FABRICATION AND QUALITY CONTROL PROCEDURES THAT PROVIDE A BASIS FOR INSPECTION CONTROL 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 CODE REQUIREMENTS FOR THE FABRICATOR'S SCOPE OF WORK. EXCEPTION: SPECIAL INSPECTIONS SHALL NOT BE REQUIRED WHERE THE FABRICATOR IS ENROLLED IN A NATIONALLY ACCEPTED INSPECTIONS PROGRAM ACCEPTABLE TO THE REGISTERED DESIGN PROFESSIONAL IS RESPONSIBLE CHARGE. | IBC 1705.5.1 | TECHNICAL REPRESENTATIVE UNDER DIRECTION OF LICENSED ENGINEER |
| B . SITE BUILT ASSEMBLIES | N/A | SITE BUILT ASSEMBLIES SHALL BE INSPECTED IN ACCORDANCE WITH IBC SECTION 1704.1 | IBC 1705.5.1 | LICENSED ENGINEER OR HIS/HER REPRESENTATIVE. |
| C. DIAPHRAGMS | N/A | HIGH LOAD DIAPHRAGMS SHALL BE INSPECTED IN ACCORDANCE WITH IBC SECTION 1704.1, AND SHEATHING CHECKED FOR PROPER GRADE, THICKNESS, SIZE OF FRAMING MEMBERS AT ADJOINING PANEL EDGES, NAIL/STAPLE DIAMETER AND LENGTH, AND FASTENER PATTERN. | IBC 1705.10.3 | |
| D . TRUSS BRACING | N/A | CHECK ALL REQUIRED PERMANENT AND LATERAL BRACING HAS BEEN INSTALLED ACCORDING TO STRUCTURAL DRAWINGS AND FABRICATOR DESIGN/SHOP DRAWINGS. | | |

1 THESE INSPECTIONS DO NOT RELIEVE ENGINEER FROM STRUCTURAL OBSERVATIONS AS MAY REQUIRED BY IBC 2018, SECTION 1709, AND/OR CONTRACTUAL REQUIREMENTS OF ARCHITECT/CLIENT, (I.E. C141).

2 DEFINITIONS/TERM: PERIODIC VS. CONTINUOUS INSPECTIONS - REF. IBC SECTION 1702 ADSC - THE INTERNATIONAL ASSOCIATION OF FOUNDATION DRILLING ASNT - AMERICAN SOCIETY FOR NONDESTRUCTIVE TESTING ASTM - AMERICAN SOCIETY FOR TESTING MATERIALS AWS - AMERICAN WELDING SOCIETY CWI - CERTIFIED WELDING INSPECTOR

CRSI - CONCRETE REINFORCING STEEL INSTITUTE PCI - PRECAST/PRESTRESSED CONCRETE INSTITUTE PTI - POST-TENSIONING INSTITUTE

N/A - NOT APPLICABLE

^{*}TESTING AND INSPECTION DIRECTED BY ASTM E329 GUIDELINES.

| DEFERRED SUBMITTALS | | | | | | |
|--|--|---|---|--|--|--|
| BUILDING CONSTRUCTION YES NO DESCRIPTION | | | | | | |
| STEEL | | Х | - | | | |
| CONCRETE | | Х | - | | | |
| WOOD | | Х | - | | | |

| N | | | | 3. CONCRETE CONSTRUCTION | | T | T | |
|------------------------|--|--|--|--|-------------|---|--|--|
| SPECIAL INSPECTIONS | | IBC 1705.4 | | G. PLACEMENT OF CONCRETE & SHOTCRETE. | CONTINUOUS | | ACI 318-CH. 5.9, 5.10 | *QUALIFICATIONS BASED ON ASTM C1077 |
| NOT REQUIRED PER | | | | H. MAINTENANCE OF SPECIFIED CURING TEMPERATURE & | PERIODIC | EACH CONCRETE POUR | ACI 318-CH. 5.11, 5.13 | *QUALIFICATIONS BASED ON ASTM C1077 |
| 1704.5.1 | EMPIRICALLY DESIGNED MASONRY IN ESSENTIAL | IBC 1705.4 | QUALIFICATIONS BASED ON ASTM C1093 | TECHNIQUES. I. PRE-STRESSED CONCRETE | N/A | APPLICATION OF PRESTRESSING FORCE. GROUTING OF BOUNDED PRESTRESSING TENDONS IN SEISMIC-FORCE RESISTING SYSTEMS. | | *QUALIFICATIONS BASED ON ASTM C1077 |
| N/A | 1. PROPORTIONS OF SITE-PREPARED MORTAR. | | | J. ERECTION OF PRECAST CONCRETE MEMBERS. | N/A | | | TECHNICIAN TRAINED IN FIELD OF WORK AND HAS AT LEAST ONE YEAR OF EXPERIENCE. |
| | | | | K. POST-TENSIONED CONCRETE: | N/A | VERIFY IN-SITU CONCRETE STRENGTH PRIOR TO STRESSING OF TENDONS. | | *QUALIFICATIONS BASED ON ASTM E329 |
| N/A | CONSTRUCTION OF MORTAR JOINTS. LOCATION OF REINFORCEMENT AND CONNECTORS. | | | | N/A | 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 | | |
| N/A N/A | PRESTRESSING TECHNIQUE GRADE AND SIZE OF PRESTRESSING TENDONS AND ANCHORAGES. | | | | N/A | 3. CONTINUOUS INSPECTION IS REQUIRED DURING ALL | | |
| N/A N/A | 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 | | | | N/A | 4. RECORDS OF ALL JACKING FORCES AND ELINGATIONS SHALL BE MADE IN ACCORDANCE WITH THE PTI FIELD MANUAL AND RECORDS SHALL BE PROMPTLY SUBMITTED TO THE ARCHITECT AND ENGINEER. | | |
| N/A | 3. SPECIFIED SIZE, GRADE AND TYPE OF REINFORCEMENT. | | | L. REMOVAL OF SHORES AND FORMS FROM | PERIODIC | VERIFY IN-SITU CONCRETE STRENGTH PRIOR TO REMOVAL. | ACI 318-CH. 5.11, 5.13 | *QUALIFICATIONS BASED OF ASTM E329 |
| N/A N/A | WELDING OF REINFORCING BARS. PROTECTION OF MASONRY DURING COLD WEATHER | | | STRUCTURAL SLABS. M. POST INSTALLED | CONTINUOUS | THE SPECIAL INSPECTOR SHALL BE ON THE JOB SITE | ACI 318 | *QUALIFICATIONS BASED OF |
| N/A | (TEMPERATURE BELOW 40 DEGREES F) OR HOT WEATHER (TEMPERATURE ABOVE 90 DEGREES F). | | | (EXPANSION ANCHORS, SCREW ANCHORS ADHESIVE | | ANCHOR TYPE, ANCHOR DIMENSIONS, CONRETE TYPE AND | APPENDIX D-CH. D.9.1 | ASTM E329 & ASTM C1077 O CERTIFIED MANUFACTURER REPRESENTATIVE |
| N/A | FORCE. 1. GROUT SPACE IS CLEAN. | | | 4. STEEL CONSTRUCTION | | THICKNESS AND ANCHOR EMBEDMENT. | IBC 1705.2 | |
| N/A | PRESTRESSING TENDONS AND ANCHORAGES. | | | A. MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS AND WASHEDS: | N/A | I. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS. | STRUCTURAL STEEL GENERAL NOTES | CWI/ASSOCIATE/TECHNICAL RADIATE, AWS OR CRSI |
| N/A N/A | 3. PROPORTIONS OF SITE-PREPARED GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS. 4. CONSTRUCTION OF MORTAR JOINTS. | | | WASHERS: | N/A | 2. MANUFACTURER'S CERTIFICATE OF COMPLIANCE | APPLICABLE ASTM | |
| N/A | VERIFY COMPLIANCE WITH CODE AND CONSTRUCTION DOCUMENTS PROVISIONS. | | | | | | SPECIFICATIONS; AISC 335, SECTION A3.4; | |
| N/A N/A | GROUTING OF PRESTRESSING BONDED TENDONS. VERIFY COMPLIANCE WITH CODE AND CONSTRUCTION | | QUALIFICATIONS BASED ON | 4 STEEL CONSTRUCTION CO | NT · | | SECTION A3.3 | |
| N/A | DOCUMENTS PROVISIONS. | | C1093 | B. HIGH STRENGTH BOLTING: | N/A | 1. BEARING-TYPE CONNECTIONS. | IBC 1704.3 IBC 1705.2 STRUCTURAL STEEL GENERAL NOTES | CWI/ASSOCIATE/TECHNICAL RADIATE, AWS OR CRSI |
| N/A | 1. VERIFY COMPLIANCE WITH CODE AND CONSTRUCTION DOCUMENTS PROVISIONS. | | | | N/A | 2. SLIP-CRITICAL CONNECTIONS. | AISC LRFD SECTION M2.5 | |
| | | | OUALIFICATIONS DASED ON | C. MATERIAL VERIFICATION OF STRUCTURAL STEEL: | N/A | | IBC 1705.2 STRUCTURAL | CWI/ASSOCIATE/TECHNICAL RADIATE, AWS OR CRSI |
| N/A | 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 | | C1093 | | N/A | 2. MANUFACTURERS' CERTIFIED MILL TEST REPORTS. | ASTM A 6 OR ASTM A 568 | |
| | , | IBC 1704.5.1, IBC 1704.5.2 | QUALIFICATIONS BASED ON ASTM C1093 | D. MATERIAL VERIFICATION OF WELD FILLER MATERIALS: | N/A | I. IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATION IN THE APPROVED CONSTRUCTION DOCUMENTS. | STRUCTURAL STEEL GENERAL NOTES | CWI/ASSOCIATE/TECHNICAL RADIATE, AWS OR CRSI |
| N/A | ANCHOR TYPE, ANCHOR DIMENSIONS, MASONRY TYPE AND COMPRESSION STRENGTH, PRE-DRILLED HOLE DIMENSIONS | D-CH. D.9.1 | *QUALIFICATIONS BASED ON ASTM E329 & ASTM C1077 OR CERTIFIED MANUFACTURER REPRESENTATIVE | | N/A | 2. MANUFACTURERS' CERTIFIED OF COMPLIANCE REQUIRED | AISC, ASD, SECTION A3.6; AISC LRFD, SECTION A3.5 | |
| N CONT.: | ENGINEERED MASONRY IN ESSENTIAL FACILITIES. | IBC 1704.5.3 | QUALIFICATIONS BASED ON | | | | | |
| N/A | PROPORTIONS OF SITE-PREPARED MORTAR, GROUT, AND PRESTRESSING GROUT FOR BONDED TENDONS. | | C1093 | E. WELDING: OF STRUCTURAL STEEL: | N/A | 1. COMPLETE & PARTIAL PENETRATION GROOVE WELDS. | IBC 1705.2.2.1 STRUCTURAL STEEL | CWI AND ASNT |
| N/A | 2. PLACEMENT OF MASONRY UNITS AND CONSTRUCTION OF MORTAR JOINTS. | | | | N/A | 2. MULTIPASS FILLET WELDS. | AWS D1.1 | CWI AND |
| N/A | PLACEMENT OF REINFORCEMENT, CONNECTORS, AND PRESTRESSING TENDONS AND ANCHORAGES. 4 GROUT SPACE PRIOR TO GROUTING. | | | | N/A | 3. SINGLE-PASS FILLET WELDS > 5/16" | | ASNT OR LICENSED ENGINEER |
| N/A | 5. PLACEMENT OF GROUT. | | | | N/A | 4. SINGLE-PASS FILLET WELDS< 5/16" | | |
| N/A | 6. PLACEMENT OF PRESTRESSING GROUT. | | _ | | N/A | 5. FLOOR AND DECK WELDS. | AWS D1.3 | |
| N/A | | | | F. WELDING OF REINFORCING | N/A | 1. VERIFICATION OF WELD ABILITY OF REINFORCING STEEL OTHER THAN A706. | IBC 1705.2.2.1.2 | CWI/ASSOCIATE/TECHNICIA TRAINED IN FIELD OF WORK AND HAS AT LEAST ONE YE |
| N/A | OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION. | | | | N/A | 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. | | OF EXPERIENCE. |
| N/A | SPECIFIED SIZE, GRADE AND TYPE OF REINFORCEMENT. 4. WELDING OF REINFORCEMENT. | | | | N/A | 3. SHEAR REINFORCEMENT. | | |
| N/A | PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40 DEGREES F) OR HOT WEATHER (TEMPERATURE ABOVE 90 DEGREES F). | | | 0.07551.550.75 | N/A | 4. OTHER REINFORCING STEEL. | IDO (===== | DDO IFOT OF COLUMN |
| N/A | 6. APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE. | | | G. STEEL FRAME JOINT DETAILS; COMPLIANCE WITH APPROVED CONSTRUCTION | | 1. DETAILS SUCH AS BRACING & STIFFENING. | IBC 1705.2.1 STRUCTURAL DRAWINGS | PROJECT OF COMPLEX DETAILS: - ASSOCIATE CWI PROJECTS OF RELATIVELY |
| N/A | VERIFY COMPLIANCE WITH CODE AND CONSTRUCTION DOCUMENTS PROVISIONS. | | QUALIFICATIONS BASED ON C1093 | DOCUMENTS: | N/A N/A | MEMBER LOCATIONS. 3. APPLICATION OF JOINT DETAILS AT EACH CONNECTION. | | SIMPLE DETAILS: - TECHNICIAN TRAINED IN FIELD OF WORK AND HAS A' LEAST ONE YEAR OF EXPERIENCE. |
| N/A | | | | H. POST INSTALLED REINFORCING & ANCHORS (EXPANSION ANCHORS, SCREW ANCHORS ADHESIVE ANCHORS, ECT.). | N/A | 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 OF ASTM E329 & ASTM C1077 O CERTIFIED MANUFACTURER REPRESENTATIVE |
| N/A | 1. TEST ONE SET OF MORTAR CUBES PER 2000 sf OR | | QUALIFICATIONS BASED | | 1 | | L | |
| | 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). | | ON C1093 | FABRICATION & IMPLEMENTATION PROCEDURES | N/A | SPECIAL INSPECTOR SHALL VERIFY THAT THE FABRICATOR MAINTAINS DETAILED FABRICATION AND QUALITY CONTROL OF THE WORKMANSHIP AND THE FABRICATOR'S ABILITY TO CONFORM TO APPROVED CONSTRUCTION DOCUMENTS AND REFERENCED STANDARDS. THE SPECIAL INSPECTOR SHALI REVIEW THE PROCEDURES FOR COMPLETENESS AND ADEQUACY RELATIVE TO THE CODE REQUIREMENTS FOR THE FABRICATOR'S SCOPE OF WORK. EXCEPTION: SPECIAL INSPECTIONS SHALL NOT BE REQUIRED WHERE THE WORK IS DONE ON THE PREMISES OF A FABRICATOR THAT IS ENROLLED IN A NATIONALLY ACCEPTED INSPECTIONS PROGRAM ACCEPTABLE TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. AT COMPLETION OF FABRICATION, THE APPROVED | F | CWI, ASNT, LICENSED ENGINEER |
| | INSPECTIONS NOT REQUIRED PER 1704.5.1 | INSPECTIONS NET VITAS 5.1 ENGINEERE DIAGONEY IN NON-ESSENTIAL FAOLITIES AND EMPIRICALLY DESIGNED MASONEY IN ESSENTIAL NA 1. PROPORTIONS OF SITE-PREPARED MORTAR. NA 2. CONSTRUCTION OF MORTAR JOINTS. NA 3. LOCATION OF REINFORCEMENT AND CONNECTORS NA 4. PRESITESSING TECHNOLIGE NA 5. GRADE AND SIZE OF PRESITESSING TENDONS AND MACHORAGES NA 2. TYPE, SIZE AND LOCATION OF STRUCTURAL ELEMENTS. NA 3. SPECIFIED SIZE, GRADE AND TYPE OF REINFORCEMENT. NA 4. WELDING OF REINFORCING BASS. NA 5. PROTECTION OF MASONBY DUBING COLD WEATHER TEMPERATURE BELOW 40 DEGREES F) OR HOT WEATHER TEMPERATURE DIABOURT FOR DEGREE DEGREE FOR SUBJECT FOR MORTAR COUNTS OF STELL FERROR FIRST FIRSM TEMPERATURE BELOW 50 DEGREES F). NA 1. TEST ONE SET OF MORTAR CUBES PER 2000 SI OR PROTECTION FIRST FOR MICH. THE STELL FOR HOT WEATHER TEMPERATURE BELOW 50 DEGREES F). NA 2. PLACE | INSPECTIONS FERENCE D FOR TOTAL 1 ENONCEPRED MASCINEY IN INCRESSENTIAL PACE TIES AND ISC 1793.4 ENONCEPT OF SITE PREPARED MORTAN. I. PROCEEDINGS WAS OWN IN ESSENTIAL PACE TIES AND ISC 1793.4 NA 1. SECONDETIONS OF SITE PREPARED MORTAN. NA 2. CONSTRUCTION OF MORTAN JOINTS. NA 3. LOCATION OF REPORTED MORTAN. NA 3. LOCATION OF REPORTED MORTAN. NA 4. SESTIMATION OF MORTAN JOINTS. NA 4. SESTIMATION OF MORTAN JOINTS. NA 4. SESTIMATION OF MORTAN JOINTS. NA 5. SESTIMATION OF MORTAN JOINTS. NA 6. SESTIMATION OF MORTAN JOINTS. NA 6. SESTIMATION OF MORTAN JOINTS. NA 7. SESTIMATION OF MORTAN JOINTS. NA 8. SESTIMATION OF MORTAN JOINTS. NA 9. SESTIMATION OF MORTAN JOINTS. NA 9. SESTIMATION OF MORTAN JOINTS. NA 1. SESTIMATION OF MORTAN JOINTS. NA 1. SESTIMATION OF MORTAN JOINTS. NA 2. SESTIMATION OF MORTAN JOINTS. NA 3. SESTIMATION OF MORTAN JOINTS. NA 4. WELDING OF REPORTOROPHIS MAIN. NA 4. WELDING OF REPORTOROPHIS MAIN. NA 5. PROCEEDING SEC. DAVIDE AND JOINT MORTHER. NA 6. SESTIMATION OF MORTAN JOINTS. NA 6. SESTIMATION OF MORTAN JOINTS. NA 7. SESTIMATION OF MORTAN JOINTS. NA 9. PROCEEDING OF SITE PREPARED SOUTH MORTAN JOINTS. NA 1. SESTIMATION OF SITE PREPARED SOUTH MORTAN JOINTS. NA 1. SESTIMATION OF SITE PREPARED SOUTH MORTAN JOINTS. NA 1. SESTIMATION OF SITE PREPARED SOUTH MORTAN JOINTS. NA 1. SESTIMATION OF SITE PREPARED SOUTH MORTAN JOINTS. NA 1. SESTIMATION OF SITE PREPARED SOUTH MORTAN JOINTS. NA 1. SESTIMATION OF SITE PREPARED SOUTH MORTAN JOINTS. NA 1. SESTIMATION OF SITE PREPARED SOUTH MORTAN JOINTS. NA 1. SESTIMATION OF SITE PREPARED SOUTH MORTAN JOINTS. NA 1. SESTIMATION OF SITE PREPARED SOUTH MORTAN JOINTS. NA 1. SESTIMATION OF SITE PREPARED SOUTH MORTAN JOINTS. NA 1. SESTIMATION OF SITE PREPARED SOUTH MORTAN JOINTS. NA 1. SESTIMATION OF SITE PREPARED SOUTH MORTAN JOINTS. NA 1. SESTIMATION OF SITE PREPARED SOUTH MORTAN JOINTS. NA 2. SESTIMATION OF SITE PREPARED SOUTH MORTAN JOINTS. NA 2. SESTIMATION OF SITE PREPARED SOUTH MORTAN JOINTS. NA 3. SECURITION OF SITE PREP | Marriagness | Marginstand | ### 1997 1997 1997 1997 1997 1997 1997 1 | Control Cont | Control Cont |

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

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

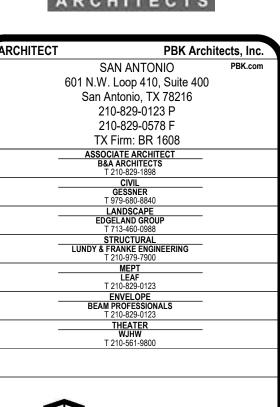
IBC 1704.2.1 "written documentation demonstrating the competence and relevant experience or training of special inspectors who will perform special inspections and tests during construction. Experience or training shall be considered relevant where the documented experience or training is related in 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)

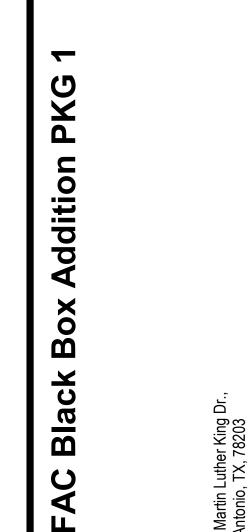
| REQUIRED INSPECTION VERIFICATION, OR TEST | VERIFICATION MONITORING FREQUENCY | TYPE AND/OR FREQUENCY OF TESTING | IBC SECTION & REFERENCE CRITERIA | INSPECTOR QUALIFICATIONS |
|--|---|--|---|--|
| 1. SOILS (SLAB ON GRADE) A. SUB-GRADE 1. VISUAL OBSERVATION | PERIODIC | SITE PREPARATION AT THE CONTRACTORS EXPENSE, INSTRUMENT READINGS SHALL BE TAKEN BY A LICENSED SURVEYOR TO VERIFY FINAL SUBGRADE ELEVATIONS AND SLOPES. | IBC 1705.6 GEOTECHNICAL REPORT, BUILDING PAD GENERAL | *QUALIFICATIONS BASED ON ASTM D3740 LICENSED SURVEYOR |
| 2. PROOFROLLING OBSERVATIONS | CONTINUOUS | PROOFROLLING SHALL BE MONITORED BY A GEOTECHNICAL ENGINEER. THE GEOTECHNICAL ENGINEER SHALL BE APPROVE THE TYPE OF | NOTES GEOTECHNICAL REPORT, BUILDING PAD GENERAL | *QUALIFICATIONS BASED ON ASTM D3740 |
| 3. MOISTURE CONDITIONING & RECOMPACTION | PERIODIC | PROOFROLLING EQUIPMENT AND PROCEDURES. PROVIDE (1) ON DENSITY TEST FOR EACH 3000 SQ. FT. REFER TO UNDERFLOOR FILL NOTES FOR TESTING SPECIFICATIONS. | NOTES GEOTECHNICAL REPORT, BUILDING PAD GENERAL | *QUALIFICATIONS BASED ON ASTM D3740 |
| B. CHEMICAL INJECTION | N/A | 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. | GEOTECHNICAL REPORT, BUILDING PAD GENERAL NOTES | *QUALIFICATIONS BASED ON ASTM D3740 |
| C. DURING FILL PLACEMENT | PERIODIC | VISUAL OBSERVATIONS: DURING PLACEMENT AND COMPACTION OF FILL, SPECIAL INSPECTOR SHALL DETERMINE THE MATERIAL BEING USED AND THE MAXIMUM LIFT THICKNESS COMPLY WITH ADDITIONAL SAMPLES TESTED EACH DAY, OR MORE OFTEN IF MATERIAL APPEARS TO VARY. | IBC 1705.6 GEOTECHNICAL REPORT, BUILDING PAD GENERAL NOTES | *QUALIFICATIONS BASED ON ASTM D3740 |
| D. EVALUATION OF IN- PLACE DENSITY OF FILL | PERIODIC | PROVIDE (1) ON DENSITY TEST FOR EACH 3000 SQ. FT. REFER TO UNDERFLOOR FILL NOTES FOR TESTING SPECIFICATIONS. | IBC 1705.6 GEOTECHNICAL REPORT, BUILDING PAD GENERAL | *QUALIFICATIONS BASED ON ASTM D3740 |
| E. TRENCH BACKFILLING: | PERIODIC | TRENCH BACKFILLING: TRENCH BACKFILLING WITH CLAY CAP AND PLACING OF CLAY PLUG SHALL BE MONITORED BY GEOTECHNICAL ENGINEER. | NOTES | |
| 2A. PILE FOUNDATIONS A. THE GEOTECHNICAL ENGINEER OR A QUALIFIED E.I.T. INVOLVED IN THE ORIGINAL GEOTECHNICAL INVESTIGATION AND UNDER THE DIRECT SUPERVISION OF THE GEOTECHNICAL ENGINEER SHALL BE PRESENT DURING THE EXCAVATION OF THE FIRST PILE. B. ALL FOOTINGS SHALL BE | N/A | 1. VERIFY THE BEARING STRATUM IS ENCOUNTERED AT THE ANTICIPATED DEPTH. 2. ADDRESS UNFORESEEN SUBSURFACE CONDITIONS, IF ANY. 3. VERIFY CONFORMANCE WITH THE FOUNDATION RECOMMENDATIONS PROVIDE IN THE PROJECT "GEOTECHNICAL ENGINEERING STUDY" AND THE STRUCTURAL DRAWINGS ISSUED FOR THE PROJECT. 1. PROVIDE RECORD OF EACH PILE INSTALLED. | IBC 1705.7 GEOTECHNICAL REPORT; | GRADUATE ENGINEER *QUALIFICATIONS BASED ON ASTM E329 & ASTM C1077 *QUALIFICATIONS BASED ON |
| OBSERVED AND MONITORED BY A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEER. THE CONTRACTOR SHALL PROVIDE THE GEOTECHNICAL ENGINEER WITH A COMPLETE SET OF STRUCTURAL DRAWINGS THAT ARE TO REMAIN WITH THE GEOTECHNICAL ENGINEER OR HIS REPRESENTATIVE. 2B. PIER FOUNDATIONS | IWA | 2. RECORD LOAD TESTS, CUTOFF AND TIP OF EACH PILE. | GEOTECHNICAL REPORT; | ASTM E329 & ASTM C1077 |
| A. THE GEOTECHNICAL ENGINEER OR A QUALIFIED E.I.T. INVOLVED IN THE ORIGINAL GEOTECHNICAL INVESTIGATION AND UNDER THE DIRECT SUPERVISION OF THE GEOTECHNICAL ENGINEER SHALL BE PRESENT DURING THE EXCAVATION OF THE FIRST PIER SHAFT. | CONTINUOUS | 1. VERIFY THE BEARING STRATUM IS ENCOUNTERED AT THE ANTICIPATED DEPTH. 2. ADDRESS UNFORESEEN SUBSURFACE CONDITIONS, IF ANY. 3. VERIFY CONFORMANCE WITH THE FOUNDATION RECOMMENDATIONS PROVIDE IN THE PROJECT "GEOTECHNICAL ENGINEERING STUDY" AND THE STRUCTURAL DRAWINGS ISSUED FOR THE PROJECT. | IBC 1705.8 GEOTECHNICAL REPORT; | GRADUATE ENGINEER *QUALIFICATIONS BASED ON ASTM E329 & ASTM C1077 |
| B. ALL FOOTINGS SHALL BE OBSERVED AND MONITORED BY A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEER. THE CONTRACTOR SHALL PROVIDE THE GEOTECHNICAL ENGINEER WITH A COMPLETE SET OF STRUCTURAL DRAWINGS THAT ARE TO REMAIN WITH THE GEOTECHNICAL ENGINEER OR HIS REPRESENTATIVE. 3. CONCRETE CONSTRUCTION | CONTINUOUS | PROVIDE RECORD OF EACH PIER INSTALLED. RECORD LOAD TESTS, CUTOFF AND TIP OF EACH PIER. | IBC 1705.8 GEOTECHNICAL REPORT; | *QUALIFICATIONS BASED ON ASTM E329 & ASTM C1077 |
| A. REINFORCING STEEL | PERIODIC | PROVIDE PERIODIC INSPECTION OF REINFORCING SIZES, SPACING, GRADE OF REBAR; AND PLACEMENT AT THE FOLLOWING FREQUENCY: COLUMNS: 10% BEAMS: 30% JOIST: 10% OTHER MEMBERS: RANDOMLY @ 20% | IBC 1705.3 ACI 318: CH. 3.5, 7.1-7.7; CONCRETE AND REINFORCING GENERAL NOTES. | *QUALIFICATIONS BASED ON ASTM E329 |
| B . REINFORCING STEEL WELDING | - | NO FIELD WELDING PERMITTED. | AWS D1.4 ACI 318: 3.5.2 | CWI OR ASSOCIATE CWI |
| C. BOLTS TO BE INSTALLED IN CONCRETE PRIOR TO & DURING PLACEMENT OF CONCRETE WHERE ALLOWABLE LOADS HAVE | CONTINUOUS | VERIFY LOCATION, SIZE AND SPACING OF ANCHORS. | IBC 1705.3 | **TECHNICIAN TRAINED IN FIELD OF WORK AND HAS AT LEAST ONE YEAR EXPERIENCE. |
| BEEN INCREASED. D. ANCHORS TO BE INSTALLED IN EXISTING CONCRETE | CONTINUOUS | VERIFY LOCATION, SIZE AND SPACING OF ANCHORS. | IBC 1705.3 | **TECHNICIAN TRAINED IN FIELD OF WORK AND HAS AT LEAST ONE YEAR EXPERIENCE. |
| E. VERIFY USE OF CONCRETE MIX DESIGN F. SAMPLING OF FRESH | PERIODIC CONTINUOUS | EACH CONCRETE POUR. 1. ALL CONCRETE TESTING IS TO BE MADE AFTER WATER, IF | ACI 318-CH. 4, 5.2-5.4 ACI 318-CH. 5.6, 5.8 | *QUALIFICATIONS BASED ON ASTM C1077 *QUALIFICATIONS BASED ON |
| CONCRETE. | EACH CONCRETE POUR; | 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 ONHE 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 50 cu. yds. SO AS TO BE REPRESENTATIVE OF THE WHOLE DAYS POUR. SAMPLES SHALL BE TAKEN AT THE THE POINT OD 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. REPORST OF TESTS SHALL BE PROMPTLY SENT AS FOLLOWS: TWO TO THE PDPIRC (ARCHITECT), ONE TO THE ENGINEER AND ONE TO THE CONTRACTOR. | | ASTM C1077 |



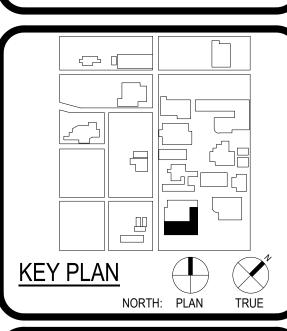








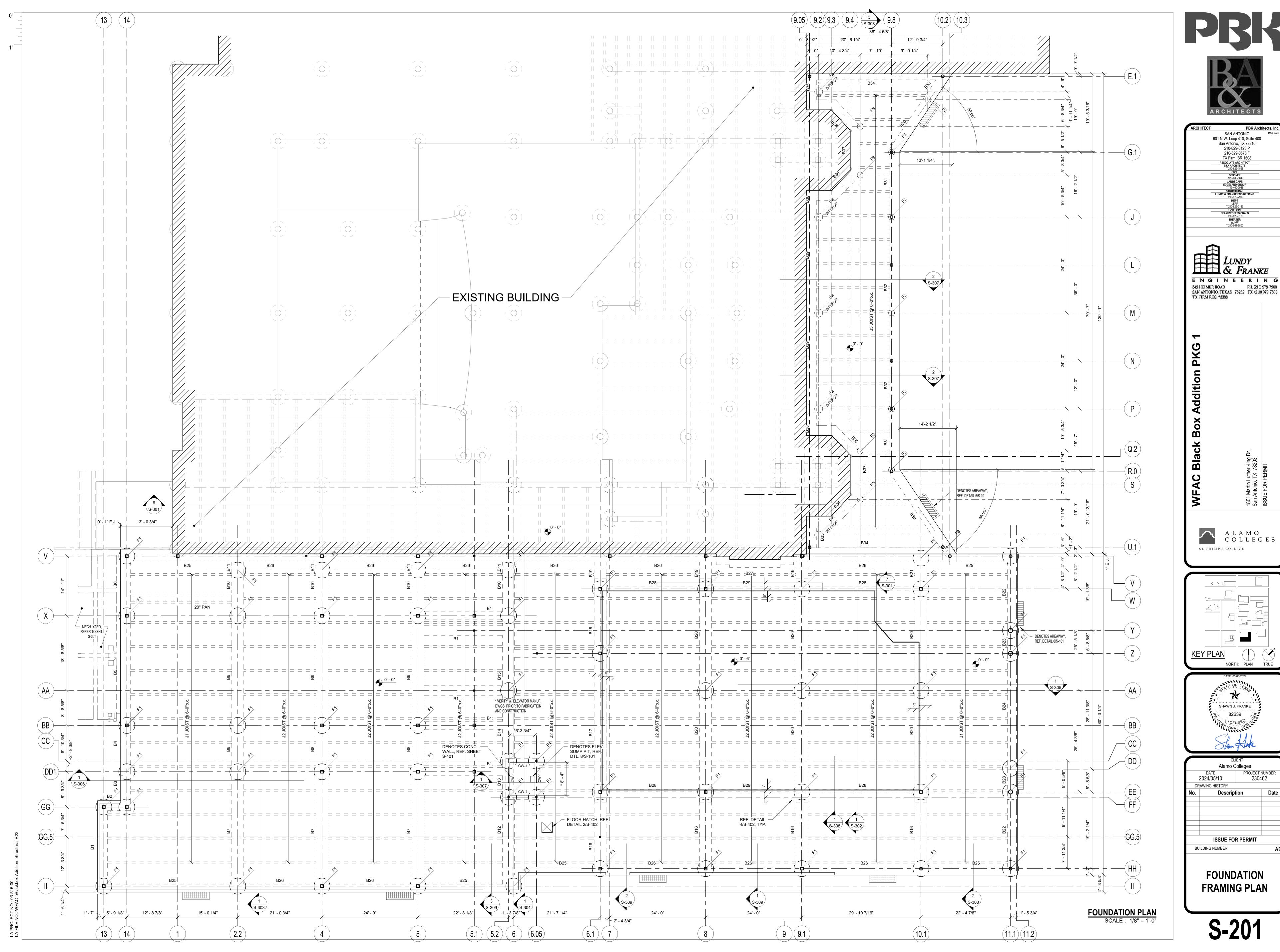


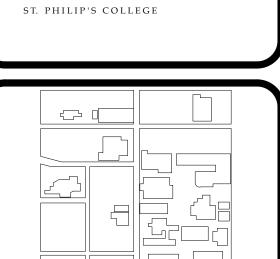




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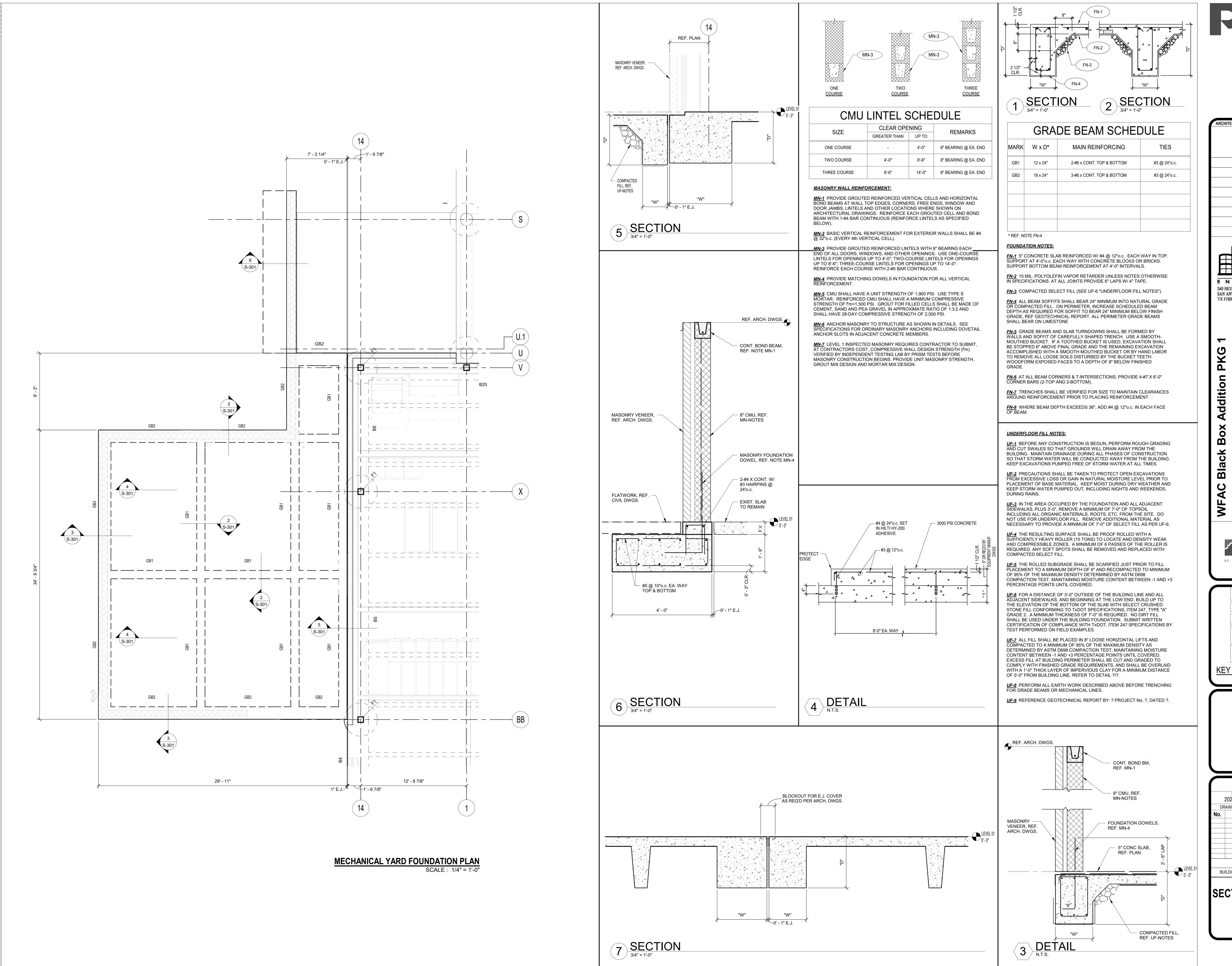
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SAN ANTONIO, TEXAS 78232 FX. (210) 979-7800
TX FIRM REG. #3388

Black Box Addition PKG 1
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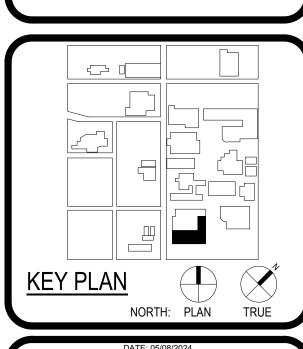
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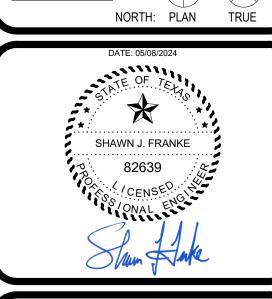
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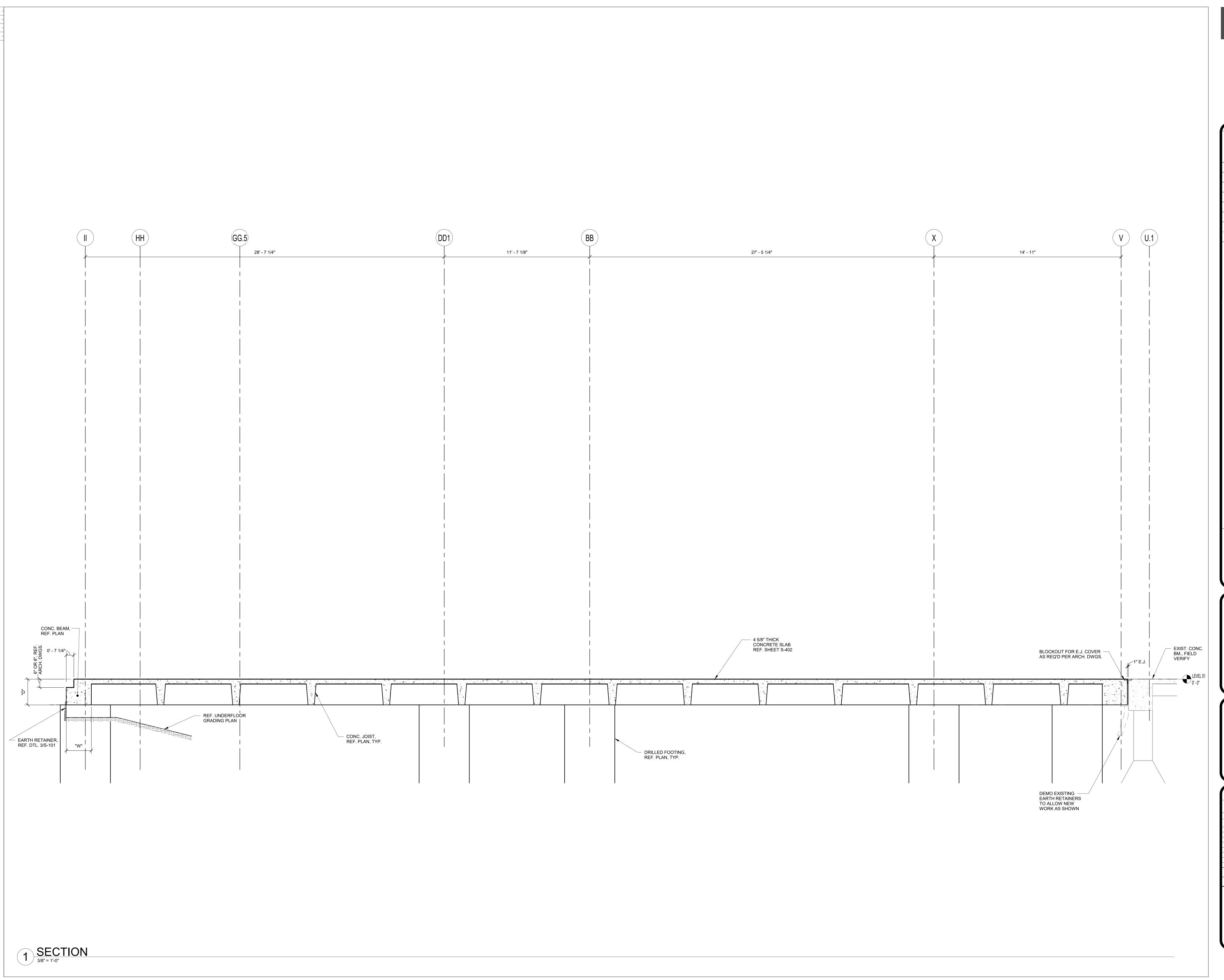


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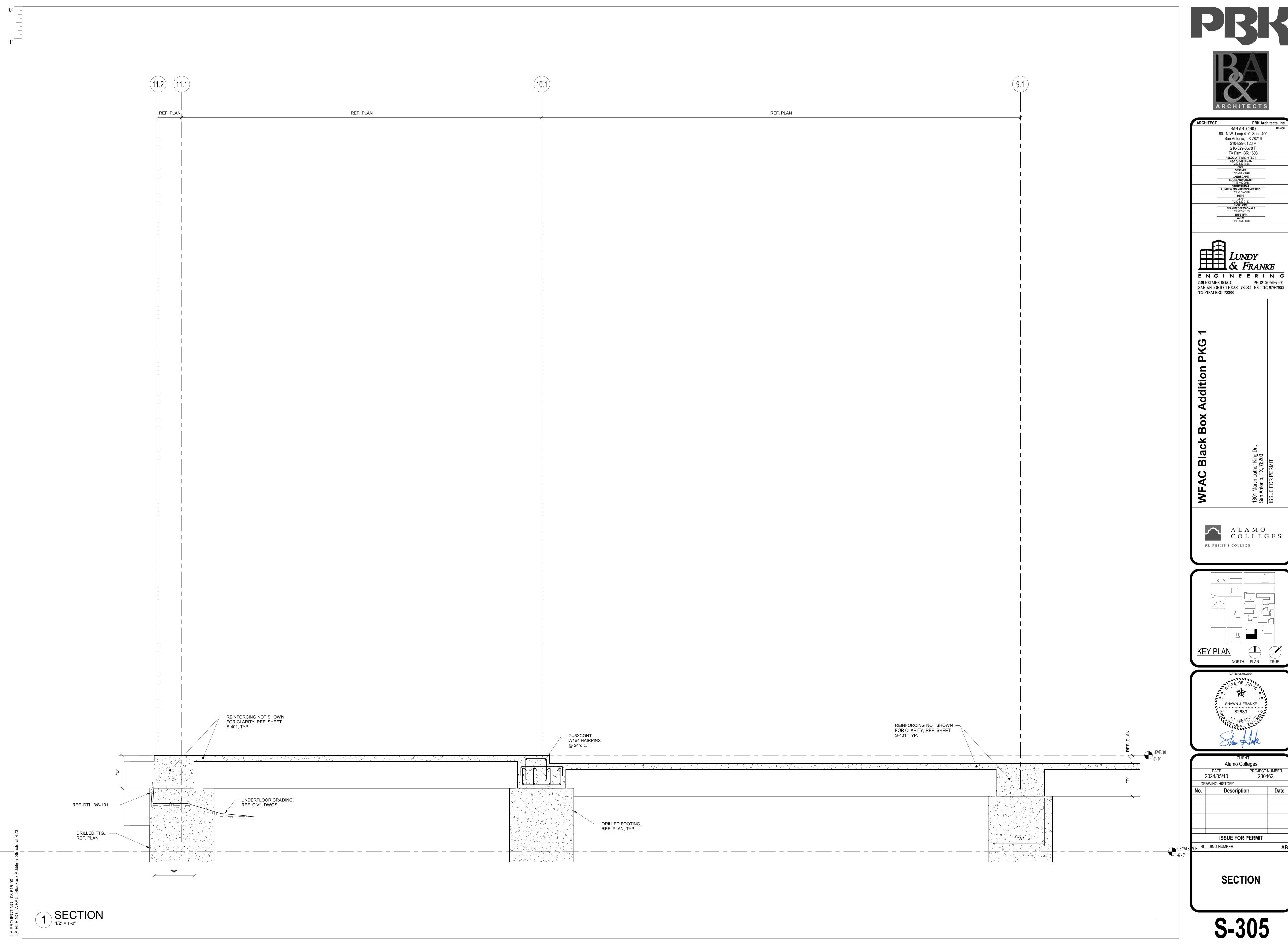
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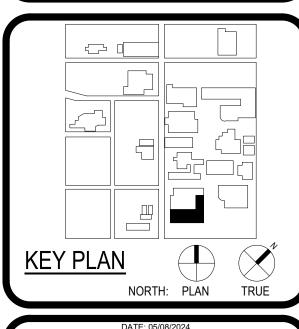




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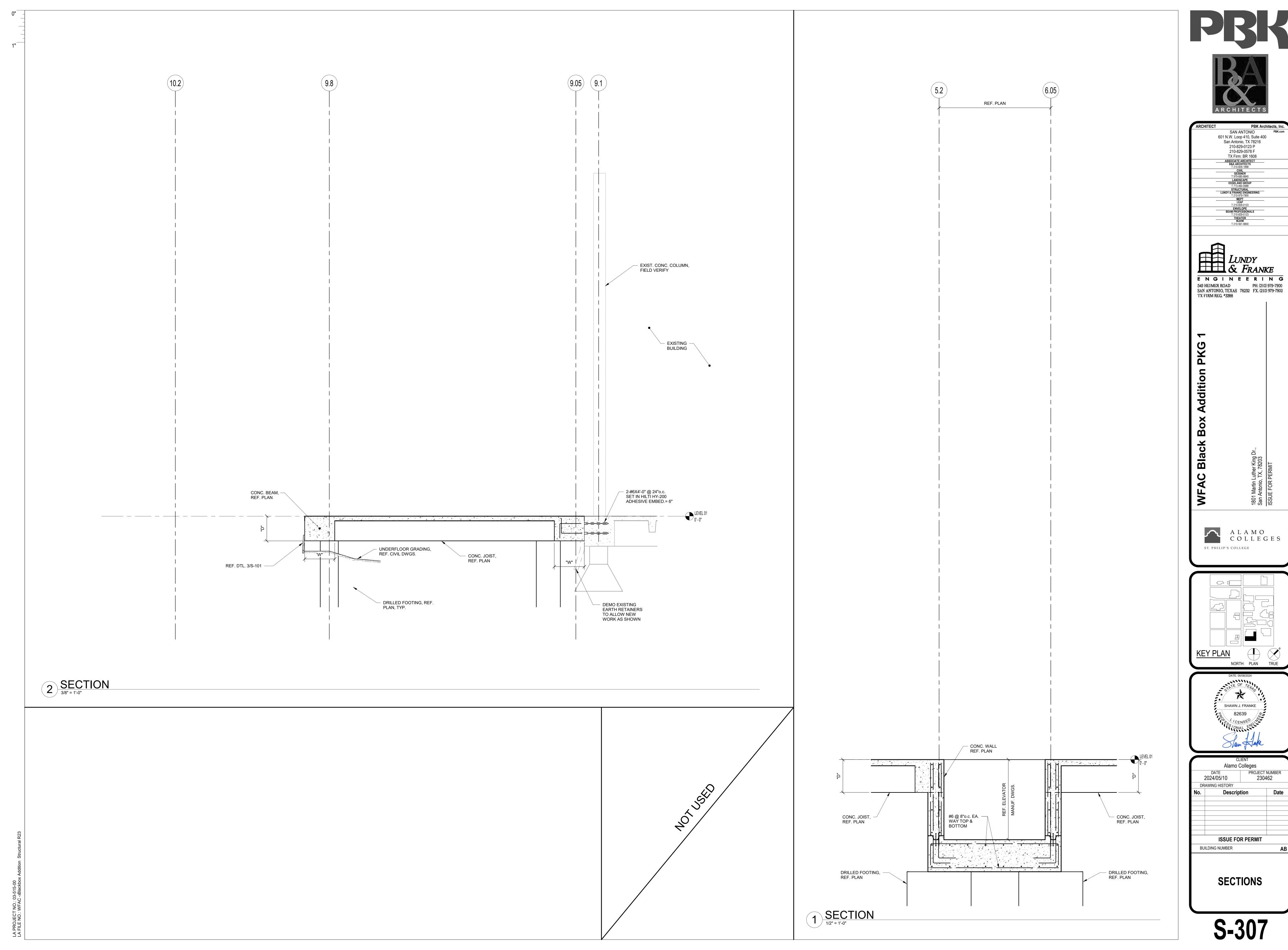


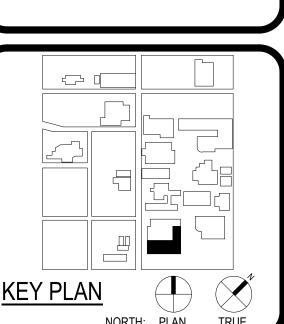
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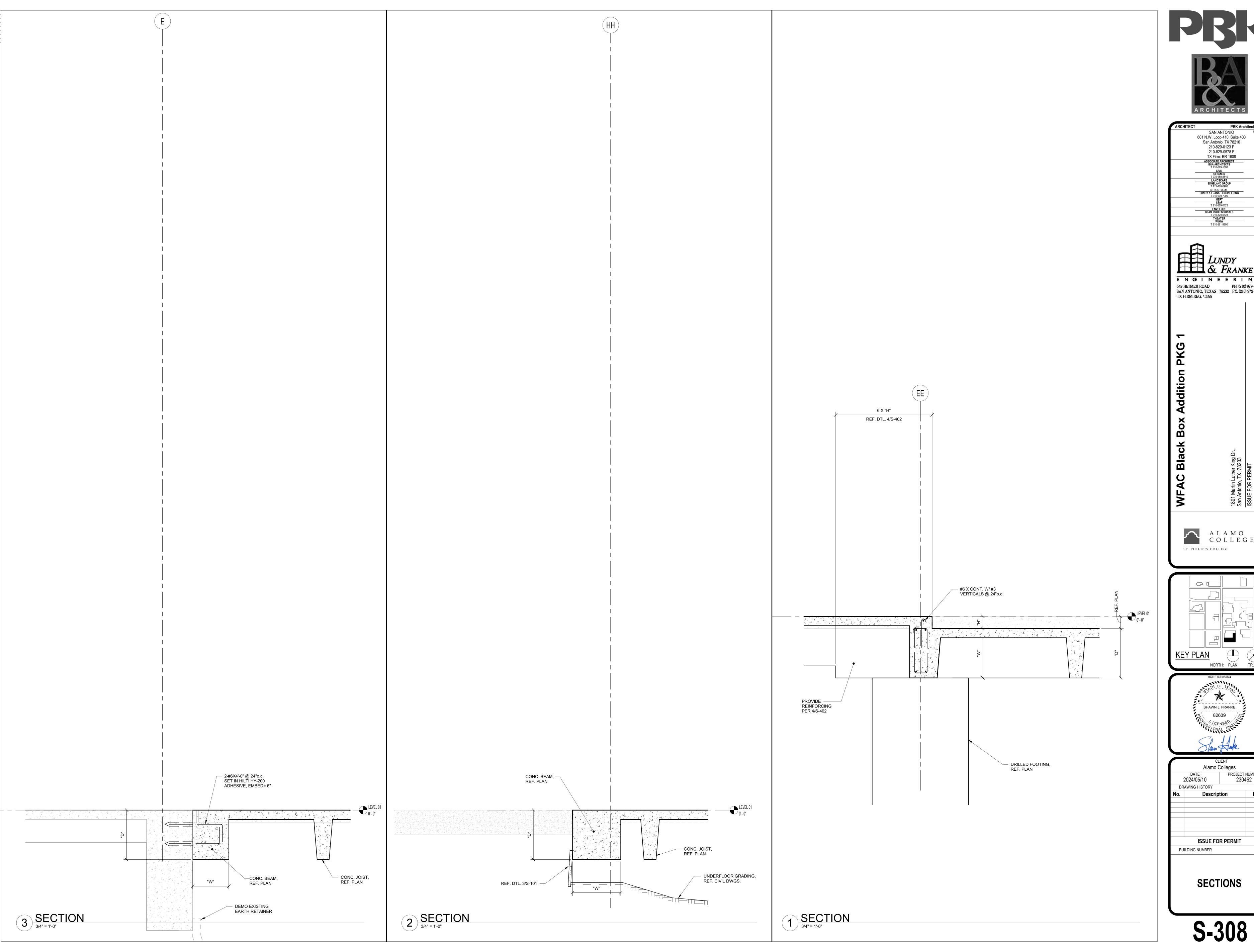
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| | , | 2024/05/10 | 2304 | 162 |
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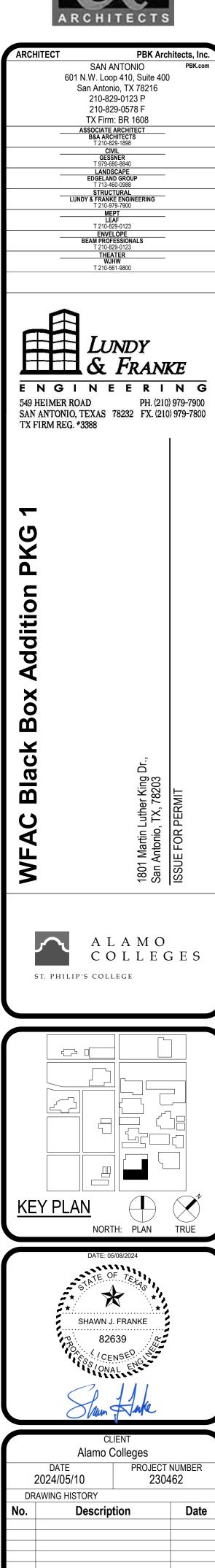


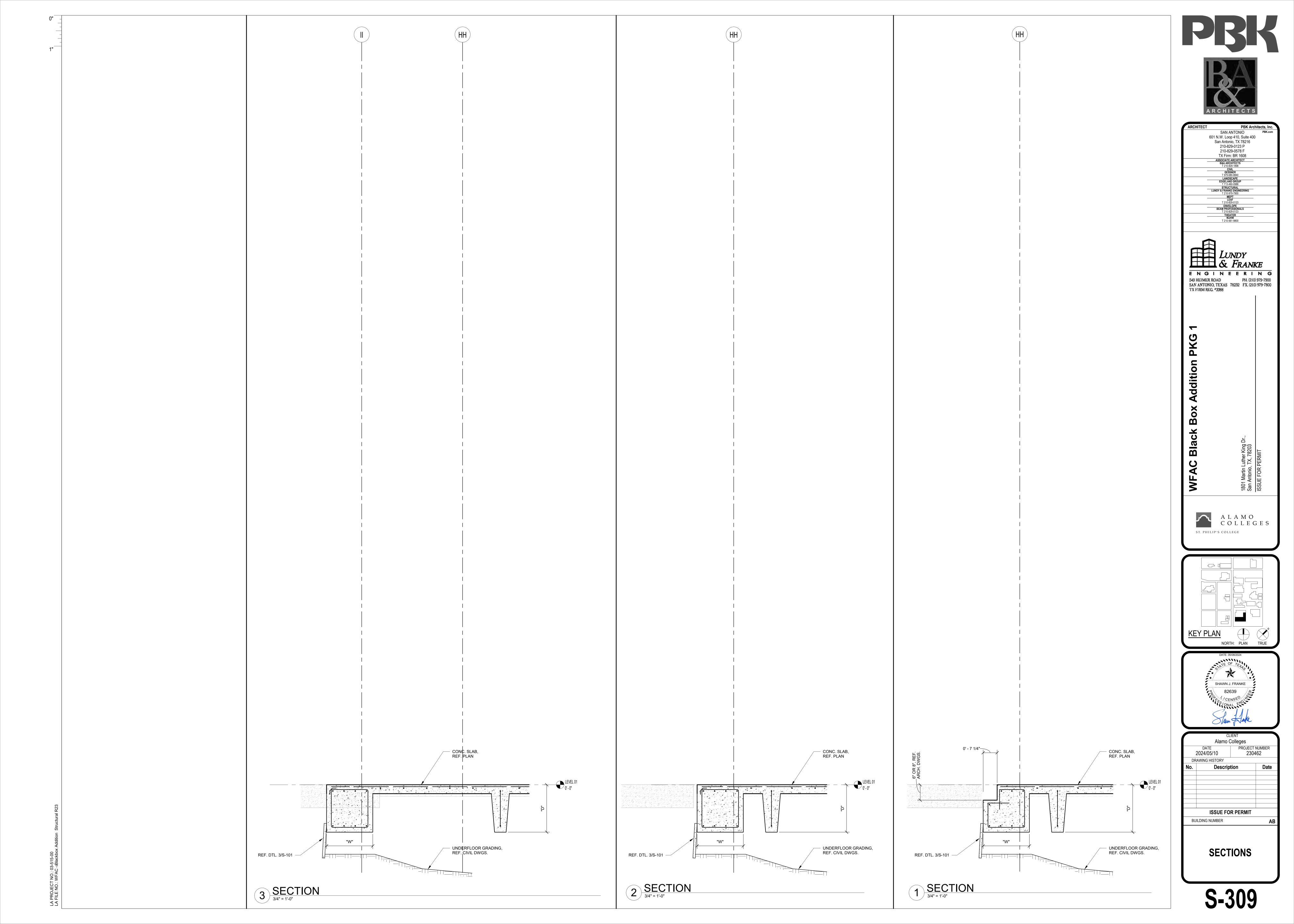












CW-1 UNLESS SHOWN OTHERWISE, AT CORNERS, ANGLE BENDS, AND AT JUNCTION WITH OTHER WALLS, LAP ALL HORIZONTAL BARS PER REINFORCING BAR LAP SCHEDULE.

CW-2 UNLESS SHOWN OTHERWISE, WHERE WALLS STOP, POSITION TWO (2) OF THE WALL VERTICAL BARS AT THE END OF THE WALL; PROVIDED THAT VERTICAL BARS ARE #6 OF LARGER. IF WALL VERTICAL BARS ARE SMALLER THAT #6, USE 2-#6 AT WALL VERTICAL BARS. PROVIDE #4 U-BARS (60 DIAMETER LAPS) ENCLOSING VERTICAL BARS AT END FACES, SAME SPACING AS HORIZONTAL BARS.

CW-3 UNLESS SHOWN OTHERWISE, ADD 2-#6 BARS IN EACH FACE OVER OPENING, EXTENDING 60 DIAMETERS BEYOND LIMITS OF OPENING, AND ADD 2-#5X5-0" PLACED DIAGONALLY AT EACH CORNER OF OPENING. PROVIDE #4 U-BARS (60 DIAMETERS LAPS) AT END FACES FOR EACH BAR (HORIZONTAL OR VERTICAL) INTERRUPTED BY OPENING. U-BARS SHALL ENCLOSE HORIZONTAL OR VERTICAL BARS AT OPENING. NOTIFY A/E PRIOR TO FABRICATION AND CONSTRUCTION FOR OPENINGS LARGER THAN 2'-0"X2'-0".

CW-4 UNLESS SHOWN OTHERWISE, USING REINFORCING BAR LAP SCHEDULE LAP WALL DOWELS FROM BEAM OR FOOTING TO MATCH THE SIZE AND SPACING OF ALL VERTICAL BARS IN WALL ABOVE; EXTEND INTO WALL USING REINFORCING BAR LAP SCHEDULE. AT CONSTRUCTION JOINTS, EITHER CONTINUE ALL VERTICAL BARS PROVIDE LAPS OF ALL VERTICAL BARS INTO WALL ABOVE USING REINFORCING BAR LAP SCHEDULE.

| | CONCRETE WALL SCHEDULE | | | | | | | | |
|------|------------------------|--------------|--------------|--------------|--------------|----------|---------------|--|--|
| MK | THICKNESS | VERTICA | AL BARS | HORIZON | TAL BARS | CONCRETE | REMARKS | | |
| IVIT | THIONNESS | I.S. FACE | O.S. FACE | I.S. FACE | O.S. FACE | STRENGTH | REMARKS | | |
| CW-1 | 12" | #5 @ 10"o.c. | #5 @ 10"o.c. | #4 @ 12"o.c. | #4 @ 12"o.c. | 4000PSI | REF. CW-NOTES | | |
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| MARK | | SIZE | | | | | | DRCING | | | | | STIRRUPS | REMARKS |
|--------|----|------------------------------|-------|--------------|-------------|------------------|--------------|-------------------|------|-----------------|------|-------------|---------------------------------|-------------------------------|
| IVIANN | W | D | SECT. | TOP BAREINF. | ARS TYP. | BOTTOM REINF. | BARS TYP. | TOP BAF REINF. | TYP. | JPPORT SUPP. | SIZE | TYPE | SPACING AT EACH END OF BEAM | REWARKS |
| B1 | 30 | 24 ⁵ 8 | | 4-#8 | T1 | 3-#8 3-#8 | B1 B8 | - | - | - | #4 | | 1 @ 2, 8 @ 10 BAL @ 24"o.c. | |
| B2 | 30 | 24 ⁵ ₈ | | 4-#8 | T1 | 3-#8 3-#8 | B1 B8 | - | - | - | #4 | | 1 @ 2, 8 @ 10 BAL @ 24"o.c. | |
| В3 | 30 | 24 ⁵ ₈ | | 4-#6 | T2 | 3-#8 3-#8 | B6 B7 | - | - | - | #4 | | 1 @ 2, 10 @ 10 BAL @ 24"o.c. | |
| B4 | 30 | 24 ⁵ ₈ | | 4-#6 | Т3 | 3-#8 3-#8 | B3 B4 | - | - | - | #4 | | 1 @ 2, 10 @ 10 BAL @ 24"o.c. | |
| B5 | 30 | 24 ⁵ ₈ | | 4-#6 | Т3 | 3-#8 3-#8 | B3 B4 | - | - | - | #4 | | 1 @ 2, 6 @ 10 BAL @ 24"o.c. | |
| B6 | 30 | 24 ⁵ ₈ | | 4-#6 | T2 | 3-#8 3-#8 | B6 B7 | - | - | - | #4 | | 1 @ 2, 6 @ 10 BAL @ 24"o.c. | |
| B7 | 48 | 24 ⁵ ₈ | | 4-#9 | T2 | 3-#9 3-#9 | B6 B7 | - | - | - | #4 | | 1 @ 2, 15 @ 10 BAL @ 24"o.c. | |
| B8 | 48 | 24 ⁵ 8 | | 4-#9 | Т3 | 3-#9 3-#9 | B3 B4 | - | - | - | #4 | | 1 @ 2, 15 @ 10 BAL @ 24"o.c. | |
| В9 | 48 | 24 ⁵ 8 | | 4-#9 | Т3 | 3-#9 3-#9 | B3 B4 | - | - | - | #4 | | 1 @ 2, 15 @ 10 BAL @ 24"o.c. | |
| B10 | 48 | 24 ⁵ 8 | | 4-#9 | T2 | 3-#9 3-#9 | B6 B7 | - | - | - | #4 | | 1 @ 2, 10 @ 10 BAL @ 24"o.c. | EXTEND HOOK END INTO CANT. |
| B11 | 48 | 24 ⁵ ₈ | | 4-#9 | Т6 | 3-#9 3-#9 | B3 B4 | | | | #4 | | 1 @ 2, 10 @ 10 BAL @ 24"o.c. | CANTILEVER |
| B12 | 48 | 24 ⁵ ₈ | | 4-#9 | T2 | 3-#9 3-#9 | B6 B7 | | | | #4 | | 1 @ 2, 10 @ 10 BAL @ 24"o.c. | |
| B13 | 48 | 24 ⁵ ₈ | | 4-#9 | T2 | 3-#9 3-#9 | B6 B7 | | | | #4 | | 1 @ 2, 12 @ 10 BAL @ 24"o.c. | |
| B14 | 48 | 24 ⁵ ₈ | | 4-#9 | Т3 | 3-#9 3-#9 | B3 B4 | | | | #4 | | 1 @ 2, 12 @ 10 BAL @ 24"o.c. | |
| B15 | 48 | 24 ⁵ ₈ | | 4-#9 | Т3 | 3-#9 3-#9 | B1 B8 | | | | #4 | | 1 @ 2, 6 @ 10 BAL @ 24"o.c. | |
| B16 | 48 | 24 ⁵ ₈ | | 4-#9 | T2 | 3-#9 3-#9 | B1 B8 | | | | #4 | | 1 @ 2, 6 @ 10 BAL @ 24"o.c. | |
| B17 | 48 | 24 ⁵ ₈ | | 4-#9 | Т3 | 3-#9 3-#9 | B3 B4 | | | | #4 | | 1 @ 2, 6 @ 10 BAL @ 24"o.c. | |
| B18 | 48 | 24 ⁵ ₈ | | 4-#9 | Т3 | 3-#9 3-#9 | B3 B4 | | | | #4 | | 1 @ 2, 6 @ 10 BAL @ 24"o.c. | |
| B19 | 48 | 24 ⁵ | | 4-#9 | T1 | 3-#9 3-#9 | B1 B8 | | | | #4 | | 1 @ 2, 6 @ 10 BAL @ 24"o.c. | CANTILEVER |
| B20 | 48 | 24 ⁵ ₈ | | 4-#9 | Т3 | 3-#9 3-#9 | B3 B4 | | | | #4 | | 1 @ 2, 6 @ 10 BAL @ 24"o.c. | |
| B21 | 48 | 24 ⁵ ₈ | | 4-#9 | T2 | 3-#9 3-#9 | B6 B7 | | | | #4 | | 1 @ 2, 6 @ 10 BAL @ 24"o.c. | |
| B22 | 30 | 24 ⁵ ₈ | | 4-#7 | T2 | 3-#8 3-#8 | B6 B7 | | | | #4 | | 1 @ 2, 6 @ 10 BAL @ 24"o.c. | |
| B23 | 30 | 24 ⁵ ₈ | | 4-#7 | Т3 | 3-#8 3-#8 | B3 B4 | | | | #4 | | 1 @ 2, 6 @ 10 BAL @ 24"o.c. | |
| B24 | 30 | 24 ⁵ ₈ | | 4-#7 | Т3 | 3-#8 3-#8 | B3 B4 | | | | #4 | | 1 @ 2, 6 @ 10 BAL @ 24"o.c. | |
| B25 | 24 | 24 ⁵ ₈ | | 4-#6 | T2 | 3-#8 3-#8 | B6 B7 | | | | #4 | | 1 @ 2, 6 @ 10 BAL @ 24"o.c. | |
| B26 | 24 | 24 ⁵ ₈ | | 4-#6 | Т3 | 3-#8 3-#8 | B3 B4 | | | | #4 | | 1 @ 2, 6 @ 10 BAL @ 24"o.c. | |
| B27 | 24 | 24 ⁵ ₈ | | 4-#6 | Т3 | 3-#8 3-#8 | B3 B4 | | | | #4 | | 1 @ 2, 6 @ 10 BAL @ 24"o.c. | |
| B28 | 12 | 24 ⁵ ₈ | | 2-#6 | T2 | 2-#8 | В6 | | | | #4 | | 1 @ 2, 6 @ 10 BAL @ 24"o.c. | |
| B29 | 12 | 24 ⁵ ₈ | | 2-#6 | Т3 | 2-#8 | В3 | | | | #4 | | 1 @ 2, 6 @ 10 BAL @ 24"o.c. | |
| B30 | 30 | 24 ⁵ ₈ | | 4-#6 | T1 | 3-#8 3-#8 | B1 B8 | | | | #4 | | 1 @ 2, 6 @ 10 BAL @ 24"o.c. | |
| B31 | 30 | 24 ⁵ 8 | | 4-#6 | T2 | 3-#8 3-#8 | B6 B7 | | | | #4 | | 1 @ 2, 6 @ 10 BAL @ 24"o.c. | EXTEND HOOK END INTO CANT. |
| B32 | 30 | 24 ⁵ ₈ | | 4-#6 | Т3 | 3-#8 3-#8 | B3 B4 | | | | #4 | | 1 @ 2, 6 @ 10 BAL @ 24"o.c. | |
| B33 | 30 | 24 ⁵ ₈ | | 4-#6 | Т6 | 4-#8 | B5 | | | | #4 | | 1 @ 2, 6 @ 10 BAL @ 24"o.c. | CANTILEVER |
| B34 | 24 | 24 ⁵ ₈ | | 4-#6 | T1 | 2-#8 2-#8 | B1 B8 | | | | #4 | | 1 @ 2, 6 @ 10 BAL @ 24"o.c. | |
| B35 | 48 | 24 ⁵ ₈ | | 4-#6 | T1 | 3-#8 3-#8 | B1 B8 | | | | #4 | | 1 @ 2, 6 @ 10 BAL @ 24"o.c. | |
| B36 | 24 | 24 ⁵ ₈ | | 4-#6 | T1 | 2-#8 2-#8 | B1 B8 | | | | #4 | | 1 @ 2, 6 @ 10 BAL @ 24"o.c. | |
| B37 | 24 | 24 ⁵ ₈ | | 4-#6 | T1 | 2-#8 2-#8 | B1 B8 | | | | #4 | | 1 @ 2, 6 @ 10 BAL @ 24"o.c. | |
| B38 | 48 | 24 ⁵ ₈ | | 4-#7 | T2 | 3-#8 3-#8 | B6 B7 | | | | #4 | | 1 @ 2, 6 @ 10 BAL @ 24"o.c. | |
| B39 | 48 | 24 ⁵ ₈ | | 4-#7 | Т3 | 3-#8 3-#8 | B3 B4 | | | | #4 | | 1 @ 2, 6 @ 10 BAL @ 24"o.c. | |

1st FLOOR CONCRETE BEAM SCHEDULE

REINFORCING PLACEMENT NOTES:

RP-1 WHERE BAR TYPES T2 AND T3 LAP OVER SUPPORTS, BUNDLE VERTICALLY TO PREVENT CONGESTION. IF BAR TYPE T4 ARE ALSO SCHEDULED, USE #5 SUPPORT BARS TO HOLD THEM NEAR MIDDLE OF STIRRUP WIDTH AS SHOWN IN DIAGRAM RP-1.

RP-2 FABRICATE OFFSET BENDS IN MAIN REINFORCING BARS FOR FLOOR DROPS, OFFSET BEAM FACES, BRICK LUG VARIATIONS, ETC. SHOP BEND BARS ON A 1:6 SLOPE AND MODIFY STIRRUP SHAPE ACCORDINGLY.

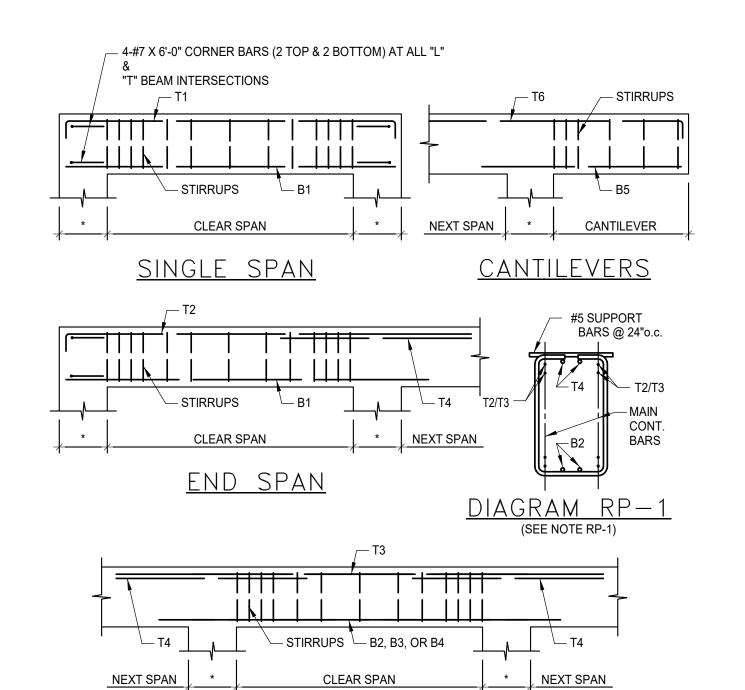
 $\overline{\text{RP-3}}$ UNLESS NOTED OTHERWISE, REBARS SHALL HAVE CONCRETE COVER AS FOLLOWS: STIRRUPS AND TIES = 1-1/2" AND SLABS = 3/4".

RP-4 WHERE BEAM DEPTHS EXCEED 36", PROVIDE ADDITIONAL CONTINUOUS #4 HORIZONTAL BARS IN EACH FACE SPACED NOT MORE THAN 16"o.c.

 ${
m RP-5}$ BARS NOTED IN SCHEDULE AS "CONT." SHALL BE FULLY CONTINUOUS USING STOCK LENGTH STEEL AND RANDOM SPLICES OF 40 BAR DIAMETERS.

RP-6 DISTANCE "X" SHALL BE THE LARGEST DISTANCE BETWEEN SUPPORTS OF THE SPANS L1, L2 OR L3 AND SHALL BE MADE THE SAME AMOUNT AT THE LEFT AND RIGHT ENDS SO THAT BARS ARE PLACED SYMMETRICALLY IN THE SPAN.

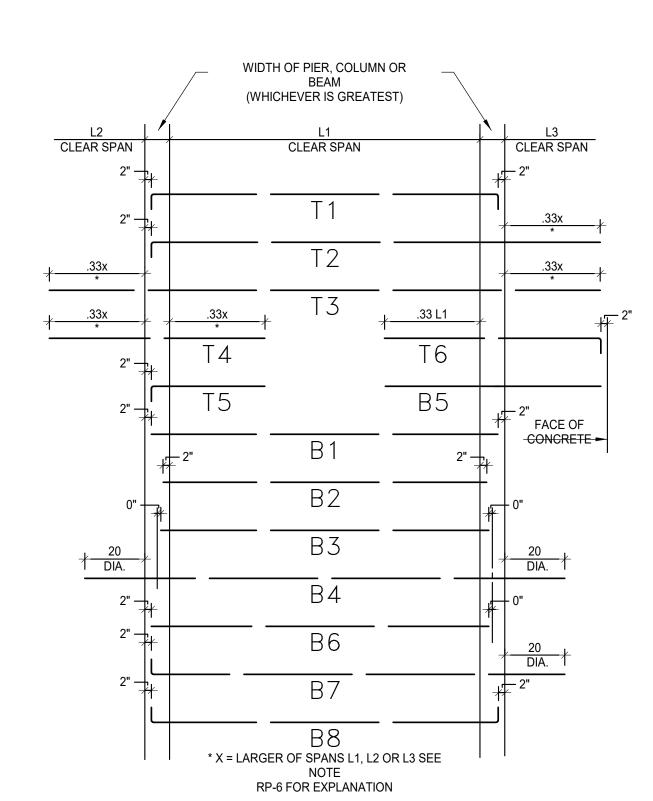
 $\overline{\text{RP-7}}$ SLEEVES THROUGH BEAMS SHALL HAVE INDIVIDUAL APPROVAL OF THE ENGINEER AND MAY REQUIRE AN INCREASE IN BEAM SIZE.



INTERIOR SPANS

* WIDTH OF PIER, COLUMN OR BEAM WHICHEVER IS GREATEST

BEAM REINFORCING BAR PLACEMENT



REINFORCING BAR TYPES

RBK



| ARCHITECT | PBK Architects, Inc. SAN ANTONIO PBK.com |
|---|--|
| | 601 N.W. Loop 410, Suite 400 San Antonio, TX 78216 210-829-0123 P 210-829-0578 F TX Firm: BR 1608 ASSOCIATE ARCHITECT B&A ARCHITECTS T 210-829-1898 |
| | CIVIL GESSNER T 979-680-8840 LANDSCAPE EDGELAND GROUP T 713-460-0988 STRUCTURAL LUNDY & FRANKE ENGINEERING T 210-979-7900 MEPT |
| | LEAF T 210-829-0123 ENVELOPE BEAM PROFESSIONALS T 210-829-0123 THEATER WJHW T 210-561-9800 |
| E N G 549 HEIME SAN ANTO TX FIRM R | R ROAD PH. (210) 979-7900 NIO, TEXAS 78232 FX. (210) 979-7800 |
| WFAC Black Box Addition PKG 1 | 1801 Martin Luther King Dr., San Antonio, TX, 78203 ISSUE FOR PERMIT |
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CONC. BEAM SCHED & NOTES

1st FLOOR CONCRETE JOIST SCHEDULE

STIRRUPS

SPACING AT EACH END OF JOIST

11" O.C.

11" O.C.

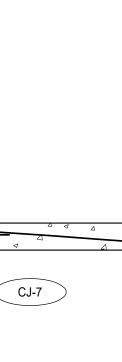
11" O.C.

REMARKS

MAIN REINFORCING

TOP BARS | BOTTOM BARS | TOP BARS AT SUPPORT

SIZE



TYP. SECT. @ REINF. BM.

6-LEG LADDER

REF. NOTE CJ-2

TYP. SECT. @ INT. BM.

REF. SCHEDULE

1/2 SPAN

NO CONDUIT PERMITTED

PERMISSIBLE CONDUIT

LOCATION; TIE TO WWF

SCALE: 3/4" = 1'-0"

1 1/2" —

NO CONDUIT PERMITTED --IN JOIST

CJ-1

STIRRUP,

SCALE: 3/4" = 1'-0"

EXTERIOR BEAM

DETAIL

CJ-3

DETAIL

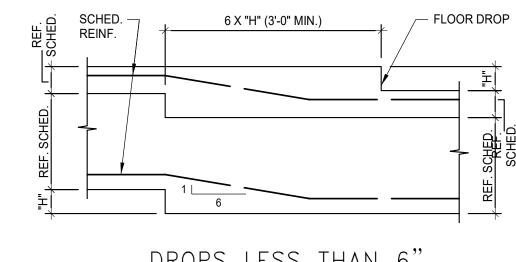
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CJ-3

SCHEDULED -

SCHEDULED — **BOTTOM BARS**

TOP BARS





CONCRETE JOIST NOTES:

LEGS AT SPACING SCHEDULED.

1. PLACE ALL BEAM BARS.

4. PLACE TOP JOIST BARS.

2. PLACE BOTTOM JOIST BARS.

3. PLACE SUPPORT BARS (NOTE CJ-3).

5. PLACE EXTRA SLAB BARS (NOTE CJ-7) 6. PLACE WELDED WIRE FABRIC.

EDGE BEAMS ONLY (SEE DETAIL).

CORNER BAR TOP AND BOTTOM.

OF SLAB SPAN.

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

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

CJ-3 JOIST TOP BARS SHALL BE SUPPORTED ON 1" DIA. X 1'-8" SUPPORT BARS PLACED ON

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,

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.

CJ-7 WHERE JOIST RUN PARALLEL TO BEAMS OR WALLS, PROVIDE #3 DOWELS AT 2'-0"o.c. AT

CJ-8 UNLESS SPECIFICALLY SHOWN ON FRAMING PLANS, JOISTS SHALL NOT BE INTERRUPTED OR REDUCED IN CROSS SECTIONAL AREAS WITHOUT ENGINEER'S APPROVAL.

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

CJ-11 PROVIDE 6" WIDE BRIDGING JOIST WHERE INDICATED "BJ" ON PLAN. REINFORCE WITH 1-#6 CONTINUOUS TOP AND BOTTOM AND ANCHOR INTO TERMINAL BEAMS WITH #6 X 5'-0"

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.

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

CJ-6 WHERE FLOOR DROPS (DEPRESSIONS) OCCUR, ADJUST PAN FORMS SO THAT SLAB

3/4" BAR CHAIRS ACROSS PAN FORMS AT 4'-0"o.c. TIED TO STIRRUPS BEGINNING AT FIRST

COORDINATED WITH BASIC SPACING WHERE MAKE-UP'S ARE REQUIRED.

REINFORCEMENT SHALL BE PLACED IN THE FOLLOWING SEQUENCE:

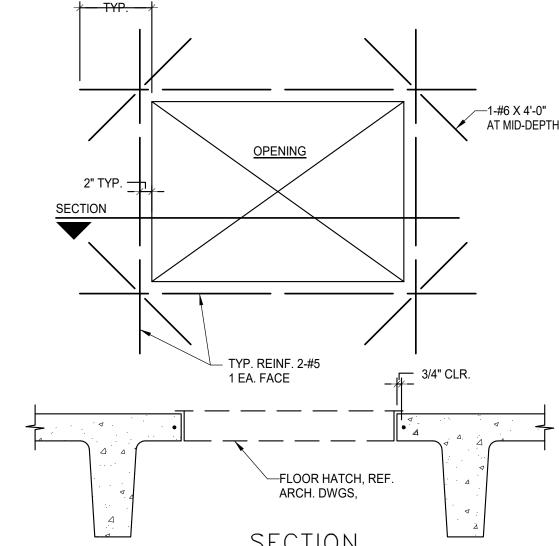
MESH SHALL EXTEND OVER THE ENTIRE WIDTH OF BEAMS.

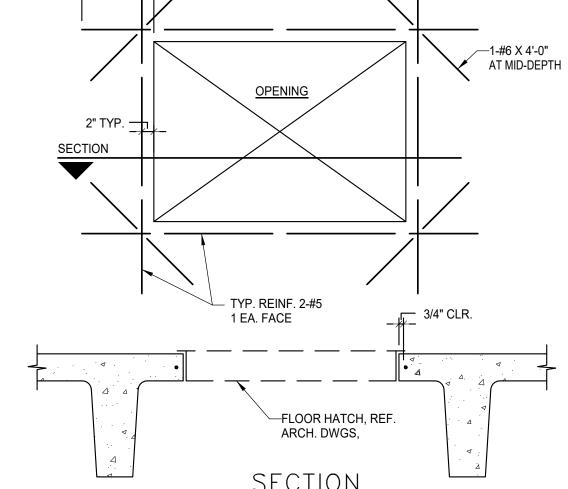
SLEEVE AND FIELD DRAPE BARS AROUND SLEEVES (NO TORCHING).

THICKNESS IS MAINTAINED AS SHOWN IN DETAILS.

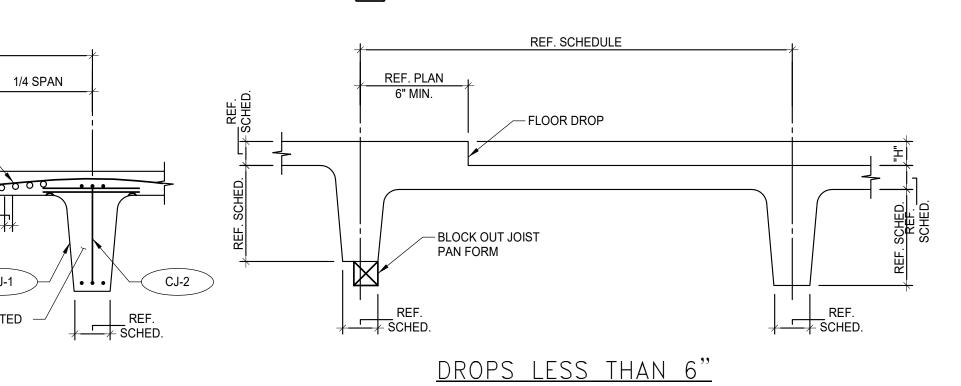


─(CJ-2)

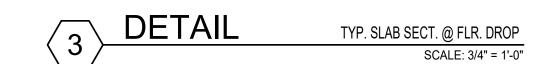


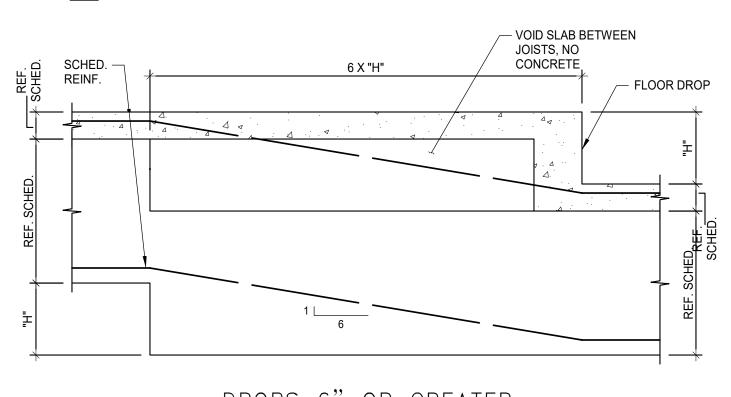


TYP. SLAB REINF. @ ACCESS HATCH SCALE: 3/4" = 1'-0"



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





DROPS 6" OR GREATER

4 DETAIL TYP. REINF. @ SLAB DROP.

SCALE: 3/4" = 1'-0"









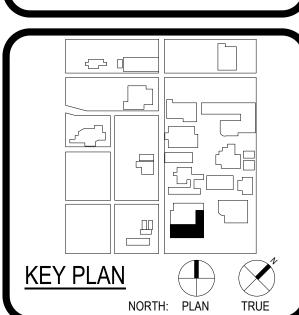
549 HEIMER ROAD PH. (210) 979-7900 SAN ANTONIO, TEXAS 78232 FX. (210) 979-7800 TX FIRM REG. #3388

Black

WFAC

ALAMO

COLLEGES

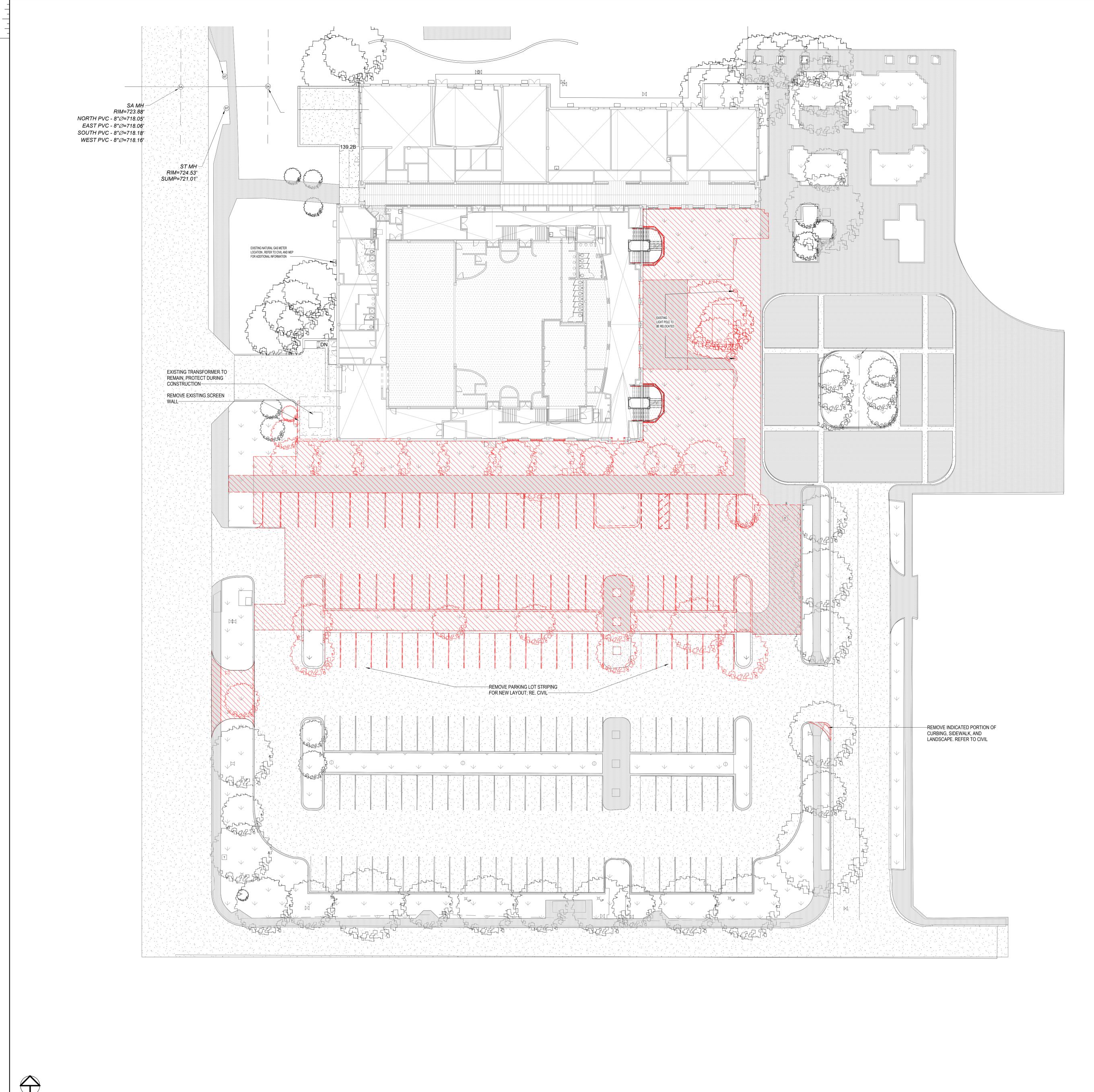


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CONC. JOIST SCHED, **NOTES & DETAILS**



GENERAL SITE DEMOLITION NOTES

- I. DEMOLITION PLANS INDICATE SOME OF THE SCOPE-OF-WORK INVOLVED FOR THE DEMOLITION PHASE OF THIS PROJECT. CONTRACTOR SHALL REVIEW ALL SHEETS FOR ADDITIONAL DEMOLITION SCOPE.
- 2. CONTRACTOR SHALL VERIFY EXISTING SITE AND BUILDING CONDITIONS AND DIMENSIONS IN THE FIELD PRIOR TO DEMOLITION ACTIVITIES AND WORK.
- 3. CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES IN WRITING. 4. CONTRACTOR SHALL NOTIFY ARCHITECT AND OWNER OF ANY POSSIBLE ASBESTOS CONTAINING MATERIALS DISCOVERED BEFORE PROCEEDING WITH WORK, PROTECT INTERIOR CONSTRUCTION TO
- REMAIN DURING DEMOLITION AND CONSTRUCTION.
- 5. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS BEFORE COMMENCING WORK. AFTER AWARD OF THE CONTRACT, CHANGE ORDER REQUESTS FOR ADDITIONAL MONEY WILL NOT BE
- APPROVED IF THE WORK COULD HAVE BEEN ANTICIPATED DURING A SITE VISIT BY THE CONTRACTOR. 7. CONTRACTOR SHALL NOT SCALE DRAWINGS.
- OR TEMPORARY SUPPORTS AS REQUIRED TO MAINTAIN STRUCTURAL INTEGRITY OF EXISTING STRUCTURE TO REMAIN AND OR EXISTING BUILDING ELEMENTS TO REMAIN.

8. CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY SHORING, TEMPORARY BRACING, AND

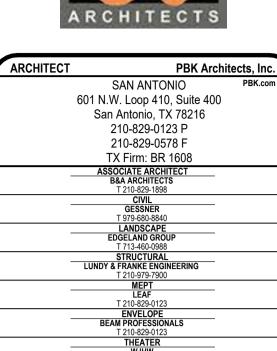
- 9. CONTRACTOR IS TO VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES PRIOR TO DEMOLITION
- ACTIVITIES AND WORK. 10. CONTRACTOR SHALL REMOVE TRASH AND DEBRIS REGULARLY AS NECESSARY TO ELIMINATED
- INTERFERENCE WITH ROADS, STREET, WALKS, AND ALL OTHER ADJACENT FACILITIES. 11. CONTRACTOR SHALL REMOVE TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.
- 12. CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION OF TEMPORARY DUST AND OR SOUND PARTITION BETWEEN CONSTRUCTION AREA AND AREAS NOT IN SCOPE AS NECESSARY. DEMOLITION
- ACTIVITIES SHALL BE PERFORMED SO AS TO PRODUCE MINIMAL DISTURBANCE TO EXISTING FACILITY AND OCCUPANTS (I.E. MINIMIZE EXCESSIVE AND PROLONGED NOISE LEVELS AND DUST). 13. CONTRACTOR SHALL REPAIR, REPLACE, OR PATCH EXISTING BUILDINGS, DRIVEWAYS, SIDEWALKS, CANOPIES, AND OR PARKING AREAS DAMAGED, MODIFIED, AND OR DISTURBED BY DEMOLITION WORK
- AT NO COST TO THE OWNER. 14. ALL EXISTING EQUIPMENT THAT REMAINS SHALL BE PROTECTED DURING DEMOLITION AND OR
- CONSTRUCTION TO PREVENT DAMAGE. ANY DAMAGE TO REMAINING EXISTING EQUIPMENT SUSTAINED DURING DEMOLITION AND OR CONSTRUCTION SHALL BE EQUIVALENTLY REPLACED OR EQUIVALENTLY REPAIRED AT NO COST TO THE OWNER.
- 15. CONTRACTOR SHALL PROVIDE TRAFFIC HANDLING MEASURES TO PROTECT THE GENERAL PUBLIC AT ALL TIMES, AS NECESSARY AND AS REQUIRED BY AUTHORITIES HAVING JURISDICTION.
- 16. DO NOT INTERRUPT EXISTING UTILITIES, EXCEPT WHEN AUTHORIZED IN WRITING BY AUTHORITIES HAVING JURISDICTION. PROVIDE TEMPORARY SERVICES DURING INTERRUPTIONS TO EXISTING
- UTILITIES, AS ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION. 17. WHEN UTILITY SERVICES ARE REQUIRED TO BE REMOVED, RELOCATED, OR ABANDONED, PROVIDE BYPASS CONNECTIONS TO MAINTAIN CONTINUITY OF SERVICE BEFORE PROCEEDING WITH
- 18. CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES INCLUDING BUT NOT LIMITED TO THE FOLLOWING: ELECTRIC, GAS, WATER, TELEPHONE, STORM SEWER, AND SANITARY SEWER FOR FIELD LOCATION OF ALL UNDERGROUND AND OVERHEAD UTILITY LINES. PRIOR TO COMMENCEMENT OF ANY DEMOLITION WORK, CONTRACTOR SHALL IDENTIFY ALL ELECTRICAL CIRCUITS SERVICING THE AREA INVOLVED WITH THIS DEMOLITION. THOSE CIRCUITS SHALL THEN BE LOCKED OUT AND TAGGED
- SPLIT SO AS TO KILL ALL ELECTRICAL POWER TO THE AREA TO BE DEMOLISHED WHILE MAINTAINING POWER TO THE REMAINDER OF THE BUILDING. 19. CONTRACTOR SHALL RELOCATE UTILITIES AND EQUIPMENT AS REQUIRED TO ACCOMMODATE NEW
- HVAC, ELECTRICAL, PLUMBING, AND TECHNOLOGY REQUIREMENTS FOR NEW WORK. 20. PROTECT EXISTING SITE ELEMENTS AND EXISTING LANDSCAPING TO REMAIN. PROTECTION SHALL INCLUDE BUT NOT BE LIMITED TO EXISTING TREES AND OTHER EXISTING VEGETATION INDICATED TO REMAIN IN PLACE AGAINST UNNECESSARY CUTTING, BREAKING, OR SKINNING OF ROOTS, SKINNING OR BRUISING OF BARK, SMOTHERING OF TREES BY STOCKPILING CONSTRUCTION MATERIAL OR EXCAVATED MATERIAL WITHIN DRIP LINES.

OUT IF THEY DO NOT SERVICE ANY OF THE REMAINING BUILDING. THOSE CIRCUITS WHICH ARE IDENTIFIED TO SERVICE BOTH THE AREA TO BE DEMOLISHED AND THE REMAINING BUILDING SHALL BE

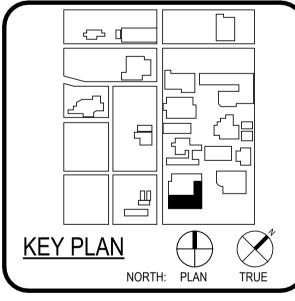
- 21. CONTRACTOR SHALL REGRADE AND HYDROMULCH AREAS AFFECTED BY DEMOLITION. 22. OWNER HAS RIGHT OF FIRST REFUSAL OF ALL ITEMS REMOVED AS PART OF THE SCOPE OF WORK, WHETHER IDENTIFIED AS SALVAGE OR NOT.
- 23. NOTIFY THE BUILDING OWNER OF ANY MATERIALS, FIXTURES, ETC. TO BE REMOVED THAT ARE DEEMED SALVAGEABLE. TURN OVER ANY REQUESTED ITEMS TO THE BUILDING OWNER IN GOOD AND
- 24. ALL FURNITURE WILL BE REMOVED OR RELOCATED BY THE OWNER AS NECESSARY PRIOR TO THE DEMOLITION WORK OF THIS PROJECT. CONTRACTOR SHALL COORDINATE WITH OWNER AS

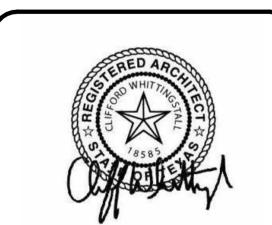












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imes — — imes DEMO CHAINLINK ARCHITECTURAL SITE

SITE DEMOLITION PLAN LEGEND

EXISTING BUILDING

(FOUNDATION,

STRUCTURE, WALLS,

DEMO ORNAMENTAL DEMO ENTIRE FACILITY **FENCE**

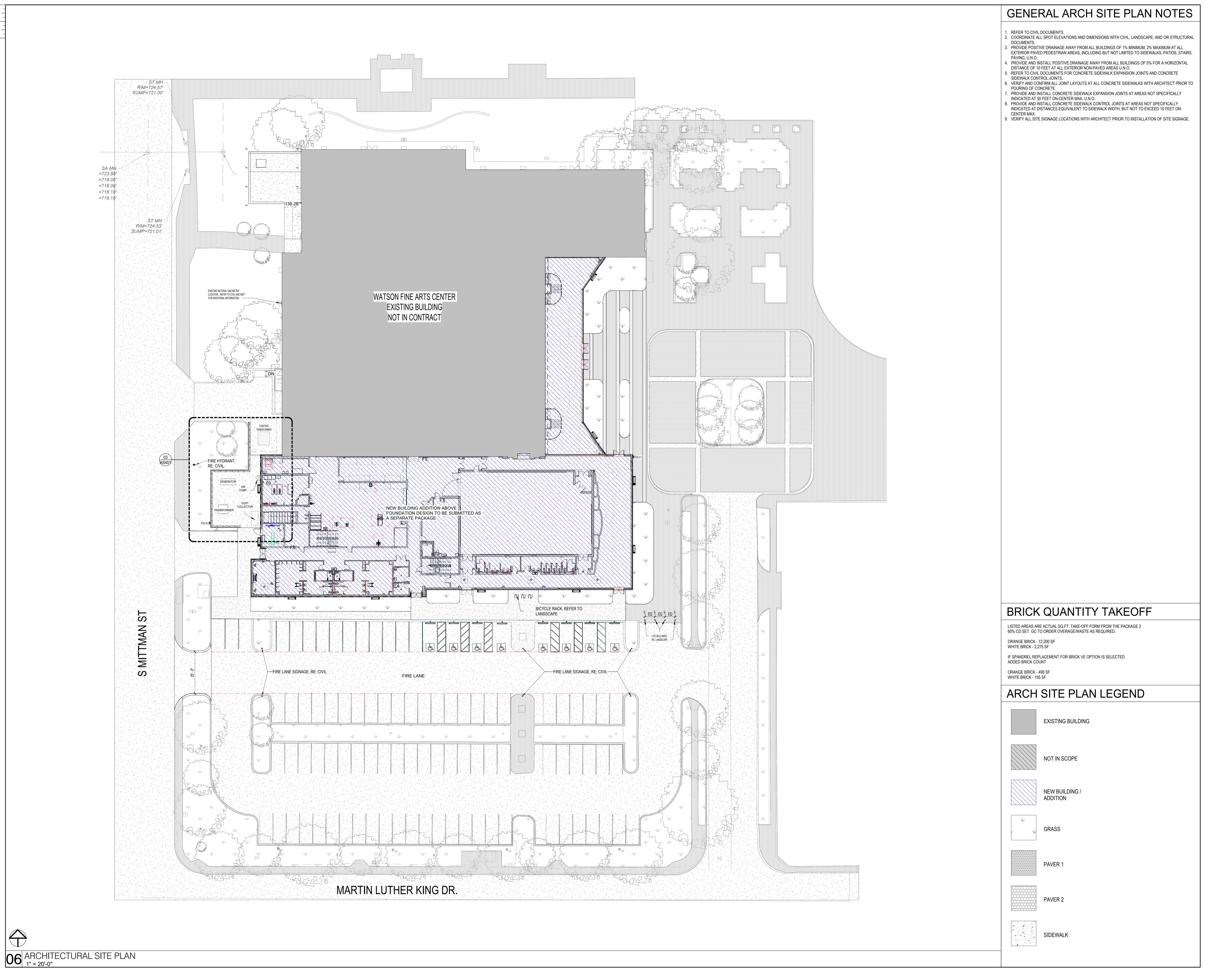
06 DEMOLITION SITE PLAN
1" = 20'-0"

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RBK





T 210-829-1898

CIVIL
GESSNER
T 979-680-8840

LANDSCAPE
EDGELAND GROUP
T 713-460-0988
STRUCTURAL
LUNDY & FRANKE ENGINEERING
T 210-979-7900

MEPT
LEAF
T 210-829-0123
ENVELOPE
BEAM PROFESSIONALS
T 210-829-0123
THEATER
WJHW
T 210-561-9800

VFAC Black Box Addition PKG 1
01 Martin Luther King Dr.,
an Antonio, TX, 78203



NORTH: PLAN TRUE

Alamo Colleges

ISSUE FOR PERMIT

ARCHITECTURAL SITE

PLAN

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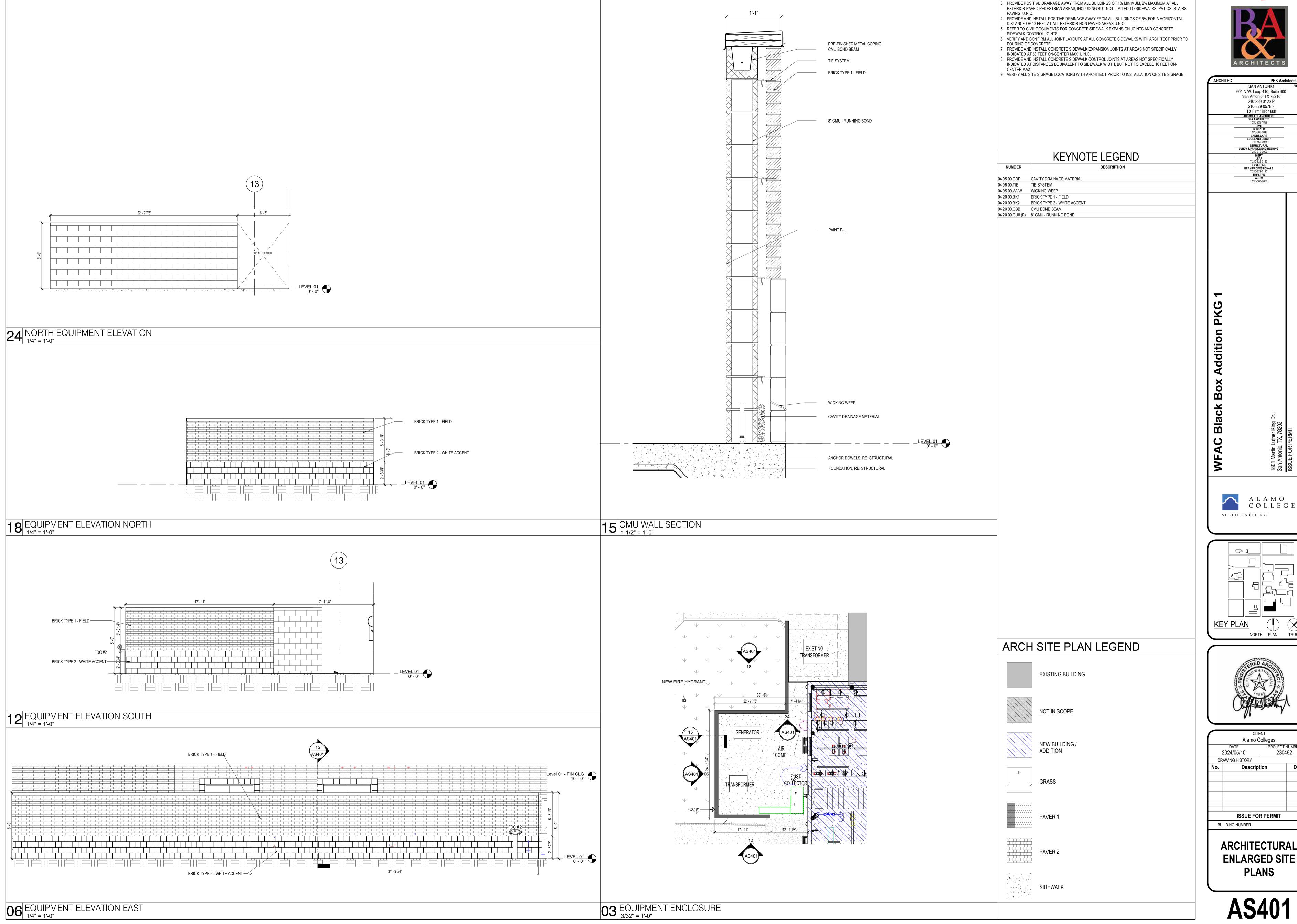
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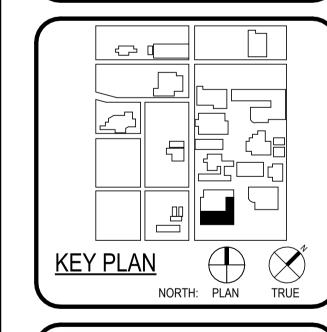
GENERAL ARCH SITE PLAN NOTES . REFER TO CIVIL DOCUMENTS. 2. COORDINATE ALL SPOT ELEVATIONS AND DIMENSIONS WITH CIVIL, LANDSCAPE, AND OR STRUCTURAL

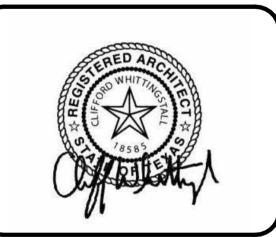


PBK Architects, Inc

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FLOOR FINISH LEGEND $-\overrightarrow{\mathsf{DD1}}$ AREAWAY 29 NOTE: CAST-IN-PLACE DEEP FOUNDATIONS CHECKED BY: Checker 06 CRAWLSPACE
1/8" = 1'-0" DRAWN BY: Author Plot Stamp: 5/9/2024 2:30:15 PM

CONT. STL ANGLE,

FIRST FLOOR

- FINISH GRADE

SOIL RETAINER

STRUCTURAL

BEYOND, REFER TO

2" MUD SLAB OVER

VAPOR BARRIER

GALV. STL.

SPECIFIED

CONC. BEAM

REFER TO

STRUCT.

<u>SPACE</u>

NOTE: PAINT ENTIRE LADDER ASSEMBLY WITH TWO COATS SHOP PAINT AFTER WELDING IS COMPLETE

FLOOR SCUTTLE

FLOOR LINE

CLOSE GAPS W/ BENT PLATE

SECTION

- BUILDING LINE

<u>PLAN</u>

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

LIGHT SWITCH AND LIGHT

REFER TO ELECTRICAL

REFER TO STRUCTURAL FOR OPENING

C4X4.5 CHANNEL ACROSS OPENING, WELD TO FRAMING CHANNELS

AND TO STRUCTURE ABOVE

SECTION

FRAME OPENING W/ C6X8.2 CHANNELS, EACH SIDE. EXTEND CHANNELS AND WELD TO NEAREST BEAM/JOIST BEYOND

C3X4.1 BRACES, WELD TO EACH STRINGER

TWO CSX5.4 STRINGERS, SPACED 16"

- 05 50 00 LADDER

SECTION

<u>AREAWAY</u>

SLOPE

SECTION

GRATING AS

REFER TO STRUCT.

REFER TO STRUCT.

GALV. STEEL GRATING

COVER PLATE, AS SPEC'D.

PRECAST CONC. AREAWAY

GENERAL ARCH PLAN NOTES

(10)

10.1

(8.2)(9)(9.1)

(11)11.1

- SUMP LOCATION RE. CIVIL

DO NOT SCALE DRAWINGS, WRITTEN DIMENSIONS TAKE PRECEDENCE, CONTACT ARCH IF

CLARIFICATION IS NECESSARY IN ORDER TO DETERMINE THE INTENT OF THE CONTRACT

DOCUMENTS. DRAWINGS NOTED AS "N.T.S" OR "NTS" ARE NOT TO SCALE.

3. ALL DIMENSIONS ARE TO STRUCTURAL COLUMN LINES OR THE SURFACE OF PARTITION ASSEMBLY . FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE COMMENCING WORK. NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH AFFECTED WORK.

. NOTES OR DIMENSIONS NOTED AS "TYPICAL" OR "TYP." OR "TYP" SHALL APPLY TO CONDITIONS THAT ARE THE SAME OR SIMILAR. DIMENSIONS NOTED AS "FIELD VERIFY" OR "V.I.F." OR "VIF" SHALL BE MEASURED AND CONFIRMED AT THE PROJECT SITE BY THE CONTRACTOR AND REVIEWED WITH THE ARCH. BEFORE INCORPORATING

DIMENSIONS NOTED AS "CLEAR" OR "CLEAR INSIDE" OR "CLR" REQUIRE SPECIFIC COORDINATION AMONG DISCIPLINES AND OR MANUFACTURERS. . REFER TO PARTITION TYPES ON A-800 SERIES SHEETS.

9. ALL INTERIOR PARTITIONS THIS SHEET, EXCEPT FOR FURR-OUT PARTITIONS, SHALL BE PARTITION TYPE __S6__ U.N.O. 10. ALL INTERIOR FURR-OUT PARTITIONS THIS SHEET SHALL BE PARTITION TYPE __F3__ U.N.O.

11. ALIGN FINISHED FACE OF WALLS WHERE WALL PARTITIONS OF DIFFERING THICKNESS ABUT AND OR ADJOIN IN THE SAME PLANE.

12. PROVIDE AND INSTALL CONTINUOUS REVEAL TRIM AT JOINT WHERE GYPSUM BOARD WALL PARTITIONS ABUT AND OR ADJOIN MASONRY WALL PARTITIONS IN THE SAME PLANE. 13. ALL INTERIOR CMU OUTSIDE CORNERS SHALL HAVE BULLNOSE U.N.O.

14. ALL DOORS SHALL BE SET 4 INCHES OFF THE ADJACENT PERPENDICULAR WALL ON THE HINGE SIDE OF THE DOOR U.N.O., NOTIFY ARCH. OF ANY DOOR-RELATED CONFLICTS, INCLUDING BUT NOT LIMITED TO CONFLICTS CONCERNING ACCESSIBILITY STANDARDS. 15. ALL DOOR THRESHOLDS AT ALL EXTERIOR DOORS SHALL BE SET IN FULL BED OF SEALANT. 16. COORDINATE ALL ROOF DRAIN LEADER LOCATIONS WITH FLOOR PLAN PRIOR TO FLOOR SLAB

17. ALL FLOOR SLOPES TO FLOOR DRAINS SHALL NOT EXCEED 1:48. 18. PROVIDE AND INSTALL SELF-LEVELING UNDERLAYMENT WHERE UNEVEN FLOOR SLAB EXISTS PRIOR

TO INSTALLATION OF FLOOR FINISHES. 19. COORDINATE HOUSEKEEPING PAD LOCATIONS AND DIMENSIONS WITH EQUIPMENT TO BE INSTALLED. 20. ALL FLOOR FINISH CHANGES SHALL OCCUR AT THE CENTERLINE OF DOORS U.N.O. 21. ALL FLOOR FINISH MATERIAL CHANGES SHALL HAVE REDUCER STRIPS.

22. ALL REQUIRED ACCESSIBLE CLEARANCES FOR ALL ITEMS, INCLUDING BUT NOT LIMITED TO ALL COUNTER TOPS, ALL PLUMBING FIXTURES, ALL DRINKING FOUNTAINS, ALL ELECTRIC WATER COOLERS, ALL LAVATORIES, ALL URINALS, ALL TOILETS SHALL BE STRICTLY ENFORCED. 23. APPLY BITUMINOUS COATING TO ALL CONCEALED STRUCTURAL STEEL MEMBERS AT ALL EXTERIOR

MUD SLAB AREA

EXISTING BUILDING

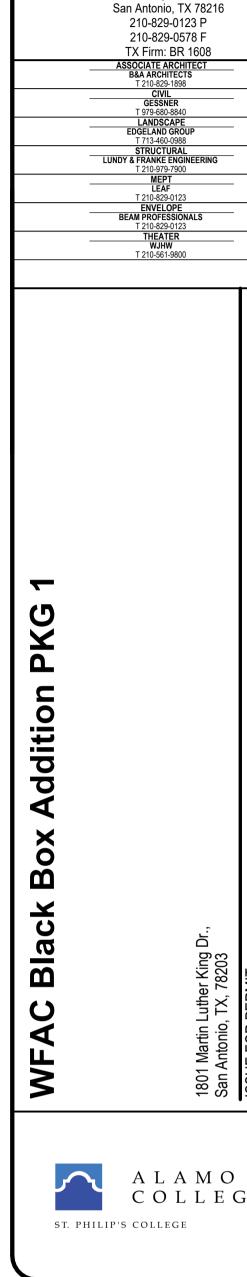
CANOPY LOCATIONS. 24. REFER TO OTHER DISCIPLINE DOCUMENTS FOR ADDITIONAL SCOPE OF WORK.

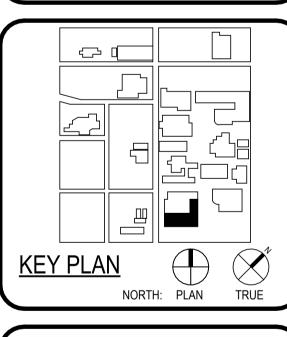


SAN ANTONIO

601 N.W. Loop 410, Suite 400

PBK Architects, Inc







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CRAWLSPACE FLOOR **PLAN - COMPOSITE**

30 UNDERGROUND SUMP PUMP DETAIL 18 UNDERFLOOR ACCESS DOOR 3/4" = 1'-0"

4" B.F. AT 1% -

2' - 8" 4' - 0" 3' - 0" 2' - 8" 2' - 8"

CONCRETE BASIN

4' - 0" 3' - 0" 2' - 8" 2' - 8"

15' - 0"

5' - 6"

DRAINAGE

→ CATCH BASIN

→ CONC. SUMP

WITH STL.

3'-2" R.O.

REINFORCEMENT,

REFER TO STRUCT.

SLOPE TO 3X3

GRATE INLET

FINISHED GRADE

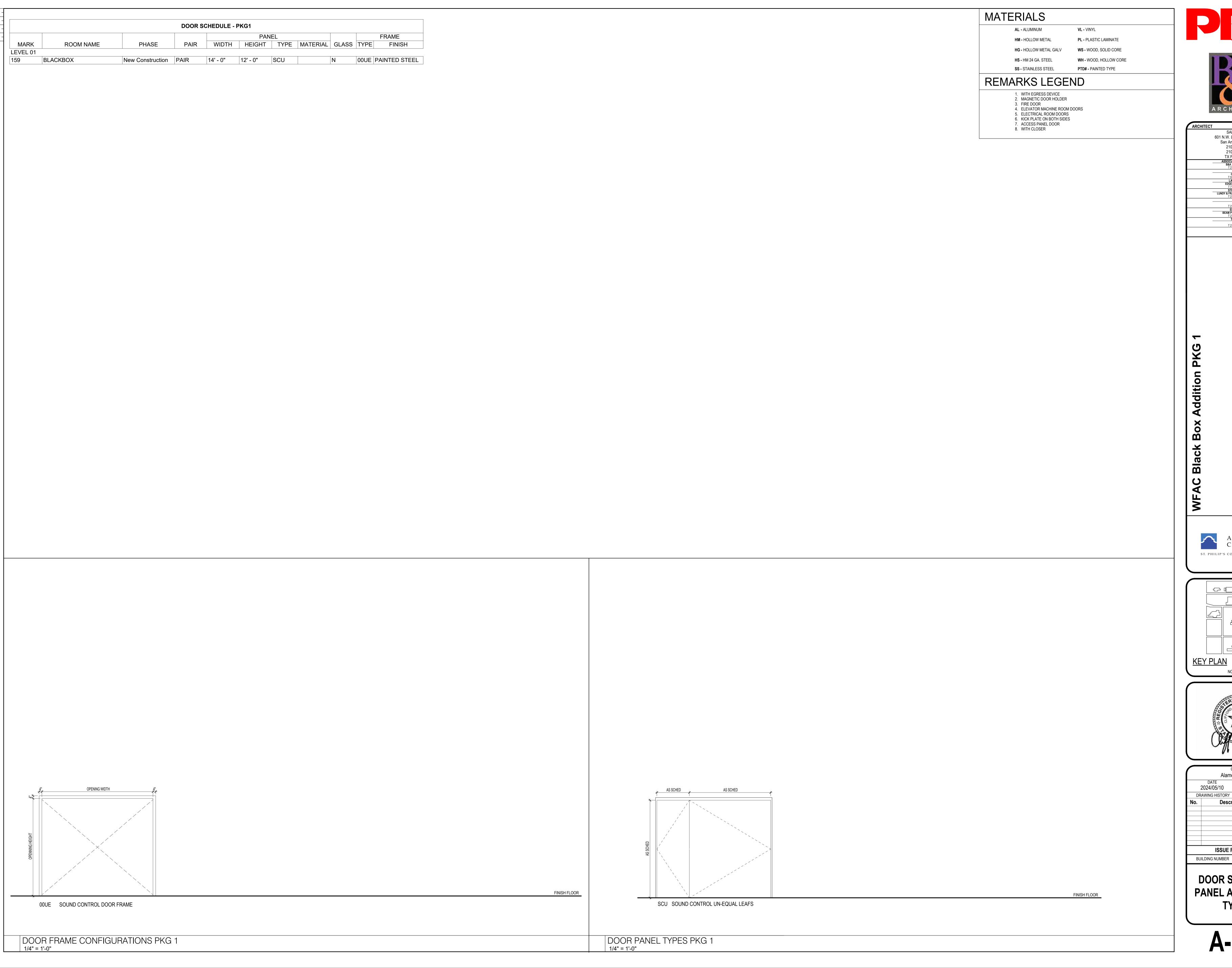
SUMP PUMP

SECTION

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GRADE

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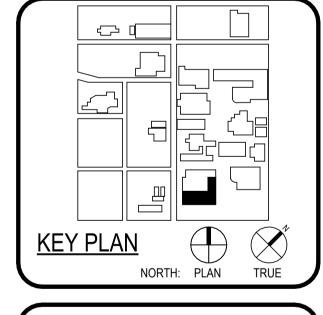








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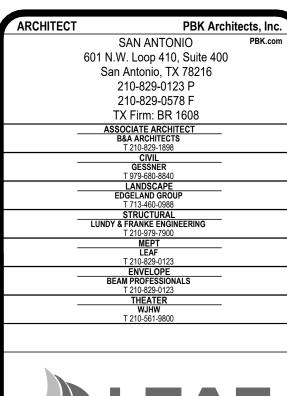


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DOOR SCHEDULE PANEL AND FRAME **TYPES**

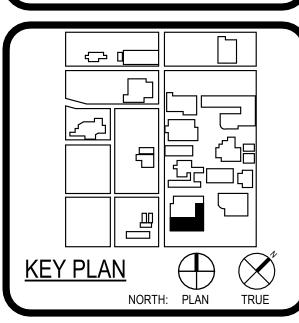


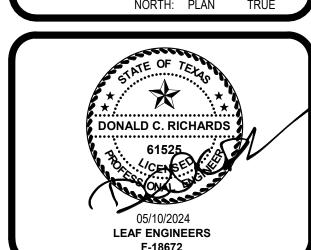












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MECHANCIAL AND PLUMBING SITE PLAN SCALE: 1" = 20'-0"



- 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:
- 1) EXISTING ELECTRCAL MANHOLE.
- 2 EXISTING ELECTRICAL MANHOLE SHALL BE DEMOLISHED AND RELOCATED.
- 3 EXISITNG UNDERGROUND ELECTRICAL DUCBANK WITH 4 EXISTING CONDUITS TO BE REROUTED FOR NEW BLACK BOX
- 4 EXISITNG FEEDERS FOR SITE LIGHTING SHALL BE RELOCATED.

PBK



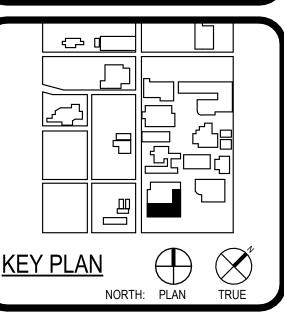


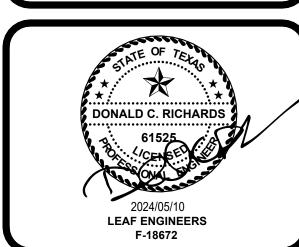


S Black Box Addition PKG 1

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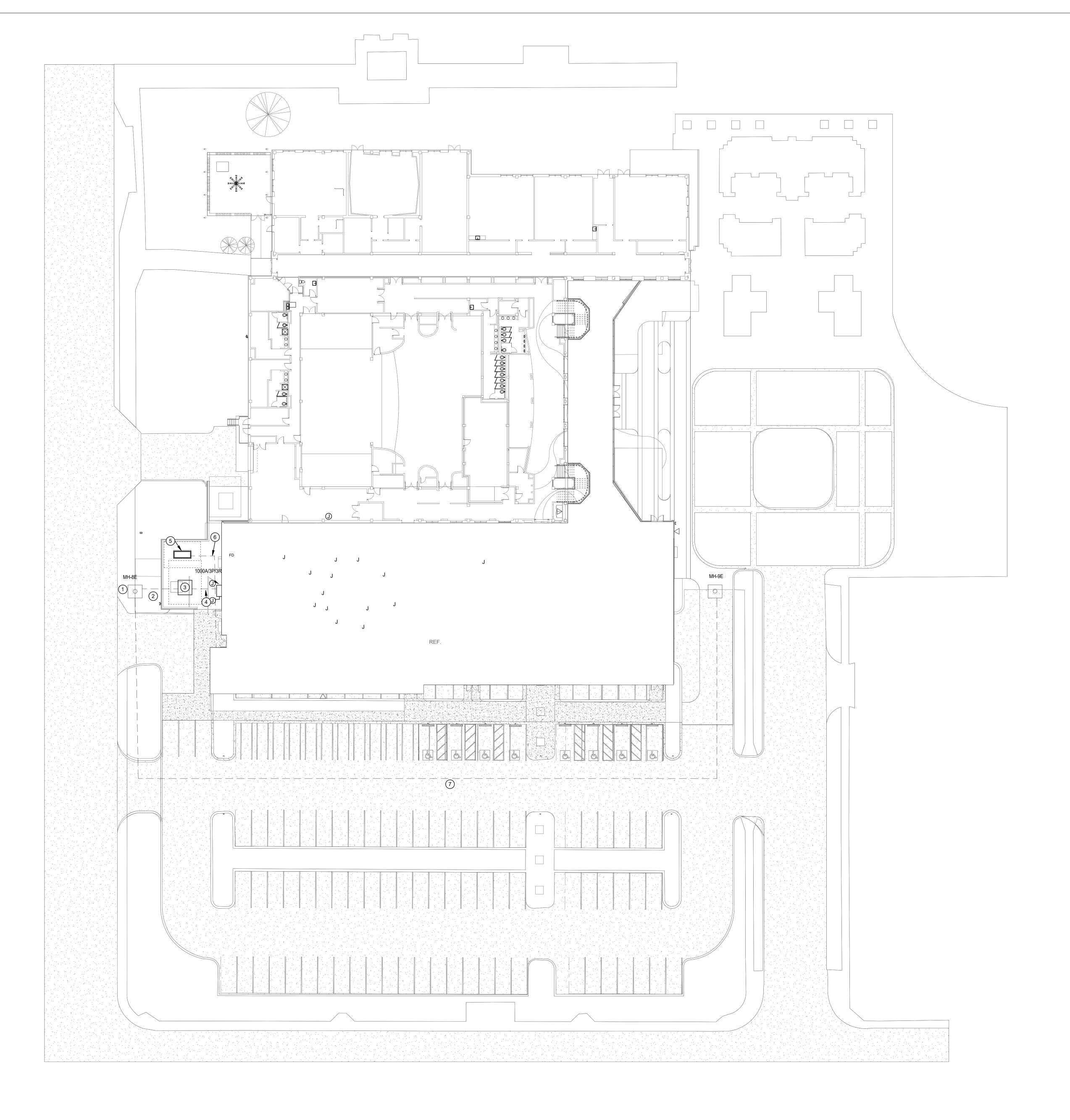
DEMO SITE POWER
PLAN

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DEMO SITE POWER PLAN
1' = 20'-0"

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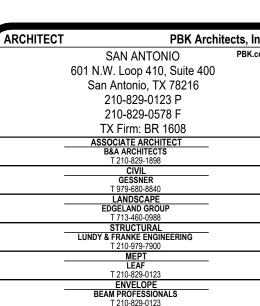
- COORDINATE ROUTING FOR ALL UNDERGROUND ELECTRICAL BRANCH CIRCUITS AND FEEDERS WITH OTHER DISCIPLINES PRIOR TO TRENCHING.
- 2. UNLESS NOTED OTHERWISE ALL UNDERGROUND CONDUIT SHOWN ON THIS PLAN TO BE MINIMUM 1" IN SIZE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES CAUSED BY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

SITE PLAN KEYED NOTES:

- 1 EXISTING ELECTRCAL MANHOLE.
- 2 NEW UNDERGROUND EASEMENT FOR NEW PRIMARY POWER FOR UTILITY TRANSFOMER. FEILD VERIFY THAT SPARE CAPACITY IS AVAILABLE.
- NEW 480/277V 750KVA TRANSFORMER SHALL BE PROVIDED FROM ALAMO COLLEGES. CONTRACTOR SHALL COORDINATE EXACT LOCATION WITH ARCHITECTUAL PLANS.PROVIDE (1) 1 1/2" CONDUIT FOR POWER.
- NEW UNDERGROUND ROUTE FOR SECONDARY TO MAIN SERVICE DISCONNECT. PROVIDE (2) 3" CONDUITS FOR POWER.
- NEW 480/277V, 40 KW CUMMINS MODEL NUMBER: C40 N6 FOR FIRE PUMP.
- 6 NEW UNDERGROUND PATHWAY FROM GENERATOR TO 2ND FLOOR ATS IN MEZZAINE.
- 7 REROUTED PATHWAY FOR EXISTING UNDERGROUND DUCKBANK 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 UTILIY FACILITIES TO ENSURE PATHWAY CAN BE ROUTED.

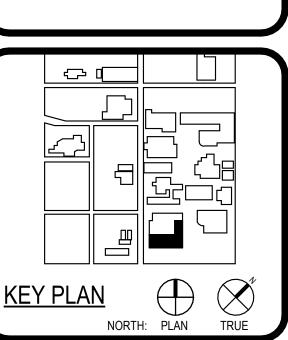


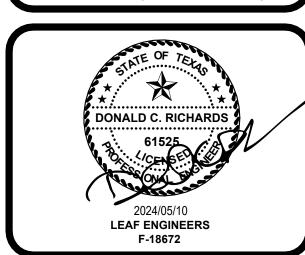












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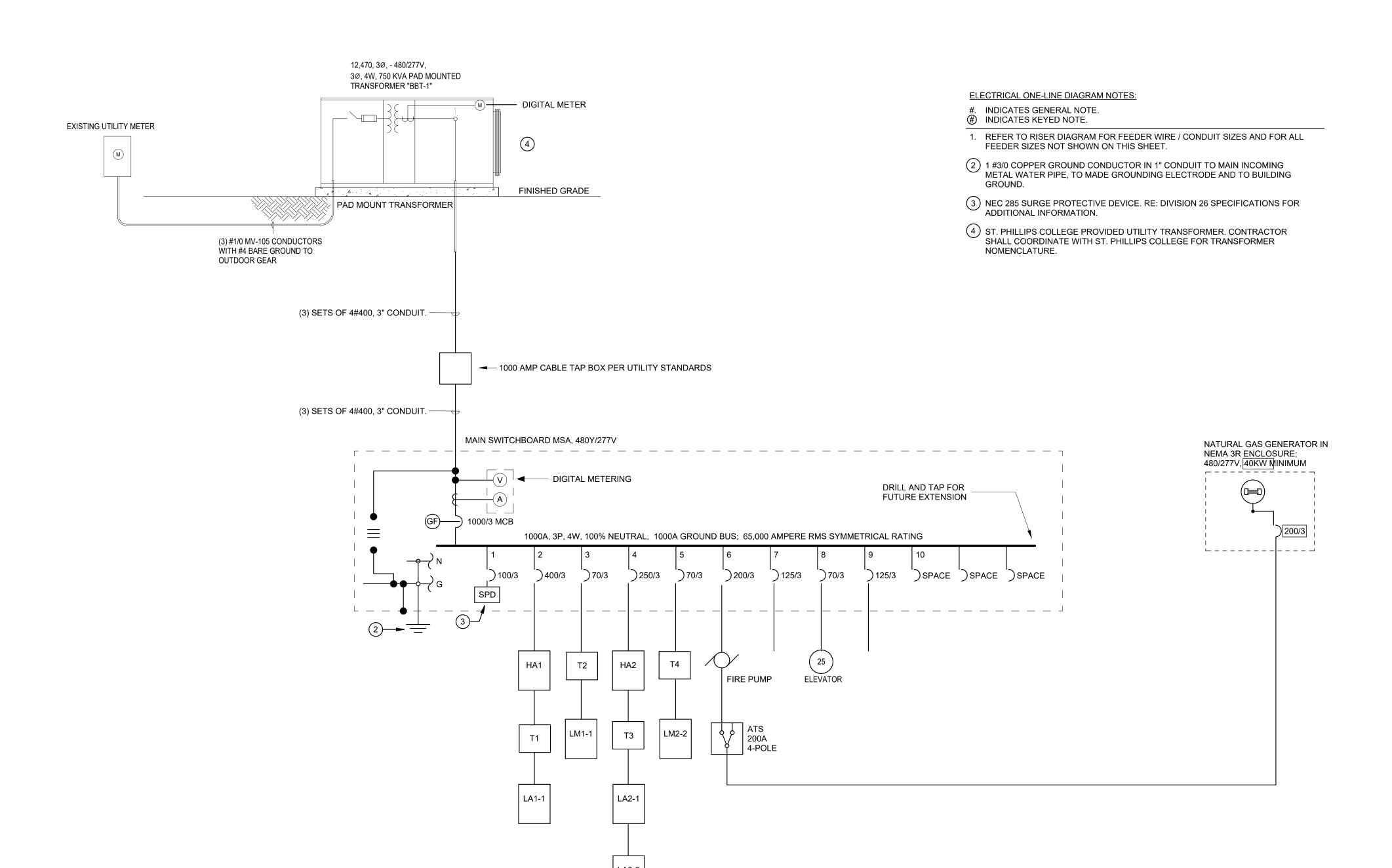
SITE POWER PLAN

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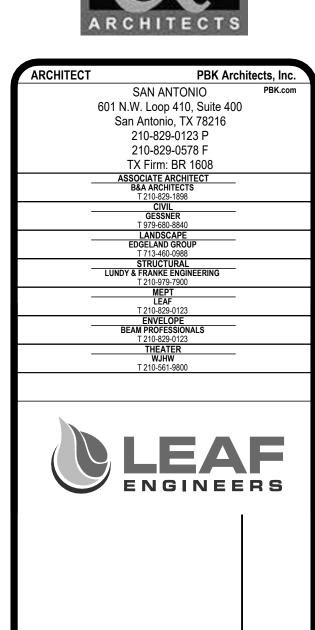




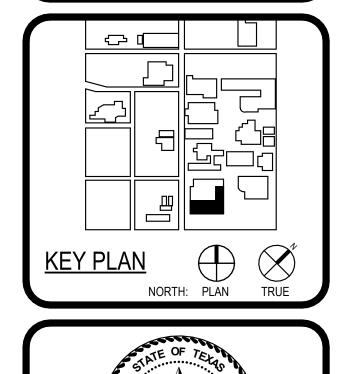


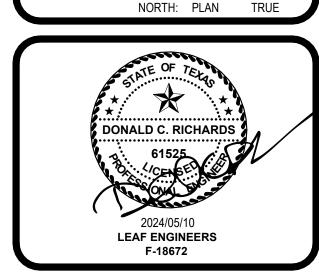






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| TAG NUMBER | CONDUCTOR QUANTITY AND SIZE | CONDUIT SIZE | SETS | COMMENTS |
| 200 | 3#250, 1#4G | 2" | 1 | |
| 200N | 4#250, 1#4G | 2 1/2" | 1 | |
| 225 | 3#300, 1#2G | 2 1/2" | 1 | |
| 225N | 4#300, 1#2G | 3" | 1 | |
| 250 | 3#350, 1#2G | 2 1/2" | 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#2/0G | 3" | 2 | |
| 600N | 4#500, 1#2/0G | 3 1/2" | 2 | |
| 800 | 3#400, 1#3/0G | 3" | 3 | |
| 800N | 4#400, 1#3/0G | 3" | 3 | |
| 1200 | 3#500, 1#3/0G | 3" | 4 | |
| 1200N | 4#500, 1#3/0G | 3 1/2" | 4 | |

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| 50N | 4#6, 1#10G | 1" | 1 | |
| 60N | 4#6, 1#10G | 1" | 1 | |
| 100 | 3#1, 1#8G | 1 1/2" | 1 | |
| 100N | 4#1, 1#8G | 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#1/0G | 3" | 2 | |
| 800N | 4#500, 1#1/0G | 3 1/2" | 2 | |
| 800S | 4#500 | 3 1/2" | 2 | |
| 1000 | 3#400, 1#2/0G | 3" | 3 | |
| 1000N | 4#400, 1#2/0G | 3" | 3 | |
| 1000S | 4#400 | 3" | 3 | |
| 1200 | 3#350, 1#3/0G | 3" | 4 | |
| 1200N | 4#350, 1#3/0G | 3" | 4 | |
| 1200S | 4#350 | 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 | |

| TAG NUMBER | CONDUCTOR QUANTITY AND SIZE | CONDUIT SIZE | SETS | COMMENTS |
|--------------|-----------------------------|-----------------|-------------------|--|
| P15 | 3#10, 1#10G | 3/4" | 1 | COMMENTO |
| S15 | 4#6, 1#8G | 1" | 1 | |
| K15 | 3#4, 1#6N, 1#8G | 1 1/4" | . 1 | |
| G15 | 1#8G | 1/2" | <u>·</u> 1 | |
| <u> </u> | | .,,_ | • | |
| P15 | 2#8, 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 |
| <u> </u> | | O/ 1 | • | TOTALISM IS. 120/210 IS THURST STANLING |
| 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#8G | 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 | |
| D75 | 0//4 4//00 | 4.4/00 | | |
| P75 | 3#1, 1#8G | 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 10: 120/240 10 TRANSFORMERS |
| G75 | 1#4G | 3/4" | 1 | FOR 480 10: 120/240 10 TRANSFORMERS |
| G13 | 1π4Ο | J/ 4 | ı | 1 CIT 400 ID. 120/240 ID INANSFORMERS |
| P75A | 3#1, 1#8G | 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 G75A | 1#2G | 1/2" | 1 | FOR 480 3Ø: 120/240 3Ø TRANSFORMERS |
| vi (| 20 | 1,2 | • | . C. C. CO. C. |
| P112 | 3#2/0, #6G | 2" | 1 | |
| S112 | 4#3/0, 1#1/0G | 2" | 2 | |
| K112 | 3#4/0, 1#350N, 1#1/0G | 2 1/2" | 2 | |
| G112 | 1#1/0G | 3/4" | 1 | |
| | | | <u> </u> | |
| P150 | 3#250, 1#4G | 2 1/2" | 1 | |
| S150 | 4#350, 1#2/0G | 3" | 2 | |
| K150 | 3#350, 2#3/0N, 1#2/0G | 3" | 2 | |
| G150 | 1#2/0G | 3/4" | 1 | |
| | | | | |
| P167 | 2#4/0, 1#2/0G | 2" | 2 | FOR 480 1Ø: 120/240 1Ø TRANSFORMERS |
| S167 | 3#350, 1#3/0G | 3" | 3 | FOR 480 1Ø: 120/240 1Ø TRANSFORMERS |
| G167 | 1#3/0G | 3/4" | 1 | FOR 480 1Ø: 120/240 1Ø TRANSFORMERS |
| | | | | |
| P225 | 3#500, 3#3G | 3" | 1 | |
| S225 | 4#300, 1#2/0G | 3" | 1 | |
| K225 | 3#350, 2#3/0, 1#1G | 3 1/2" | 3 | |
| G225 | 1#2/0G | 3/4" | 1 | |

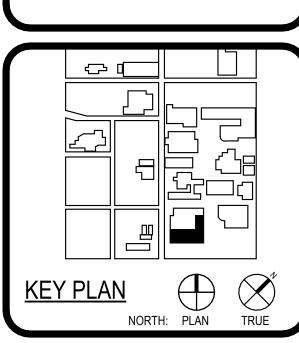
TRANSFORMER FEEDER SCHEDULE

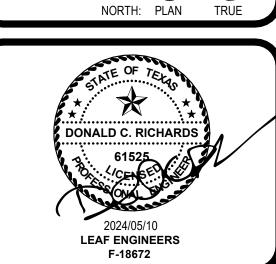


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DIAGRAM

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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 WALL CONVENIENCE RECEPTACLES WALL DATA/VOICE OUTLETS WALL OUTLETS FOR WALL MTD. TELEPHONE WALL CLOCK OUTLETS MANUAL FIRE ALARM PULL STATIONS FIRE ALARM SPEAKER/HORN INTERIOR BELLS, BUZZERS, HORNS SPECIAL PURPOSE WALL OUTLETS

PUSH BUTTONS

ADA VISUAL ALARM

15" AFF TO BOTTOM OF BOX 15" AFF TO BOTTOM OF BOX

7'-0" AFF (OR ABOVE CHALKBOARDS WHERE REQUIRED)* 1'-0" BELOW CEILING, OR IN CEILING, AS REQUIRED* 1'-0" BELOW CEILING, OR IN CEILING, AS REQUIRED* 15" AFF TO BOTTOM OF BOX (OR HIGHER AS REQUIRED TO SERVE EQUIPMENT)

80" AFF TO BOTTOM OF LENS OR 6" BELOW CEILING, WHICHEVER IS LOWER. ENTIRE LENS TO BE WITHIN 80" TO 96"

• TOP OF BOX SHALL BE 42" AFF MAX. FOR WHEELCHAIR FRONTAL APPROACH AND 48" AFF MAX. FOR SIDE APPROACH. VERIFY EXACT HEIGHT WITH ARCHITECT

* 7'-0" AFF TO BOTTOM OF DEVICE IF DEVICE PROTRUDES MORE THAN 4" FROM WALL (PER ADA)

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 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 WALL CONVENIENCE RECEPTACLES WALL DATA/VOICE OUTLETS WALL OUTLETS FOR WALL MTD. TELEPHONE WALL CLOCK OUTLETS MANUAL FIRE ALARM PULL STATIONS FIRE ALARM SPEAKER/HORN INTERIOR BELLS, BUZZERS, HORNS

SPECIAL PURPOSE WALL OUTLETS

7'-0" AFF (OR ABOVE CHALKBOARDS WHERE REQUIRED)* 1'-0" BELOW CEILING, OR IN CEILING, AS REQUIRED* 1'-0" BELOW CEILING, OR IN CEILING, AS REQUIRED* 15" AFF TO BOTTOM OF BOX (OR HIGHER AS REQUIRED TO SERVE EQUIPMENT)

15" AFF TO BOTTOM OF BOX

15" AFF TO BOTTOM OF BOX

PUSH BUTTONS ADA VISUAL ALARM

80" AFF TO BOTTOM OF LENS OR 6" BELOW CEILING, WHICHEVER IS LOWER. ENTIRE LENS TO BE WITHIN 80" TO 96"

• TOP OF BOX SHALL BE 42" AFF MAX. FOR WHEELCHAIR FRONTAL APPROACH AND 48" AFF MAX. FOR SIDE APPROACH. VERIFY EXACT HEIGHT WITH ARCHITECT

* 7'-0" AFF TO BOTTOM OF DEVICE IF DEVICE PROTRUDES MORE THAN 4" FROM WALL (PER ADA)

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, 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

BOXES. WHERE THIS WORK IS DONE, THE WALLS, FLOOR, AND CEILING SHALL BE PATCHES AS NECESSARY 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 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 CEILINGS: 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 CEILINGS TEES SO THAT THE LUMINAIRE IS SECURELY FASTENED TO THE

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.

LIGHTING FIXTURE NOTES

APPLY TO SPECIFIC LUMINAIRES.

OTHERWISE INSTRUCTED.

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

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

REFER TO DIVISION 26 ELECTRICAL SPECIFICATIONS FOR ADDITIONAL LUMINAIRE AND ELECTRICAL REQUIREMENTS (LENS, AIR HANDLING CHARACTERISTICS, T-BAR CLIPS, BALLAST, LAMPS, TIME FRAME FOR

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.

SUBMITTAL OF SUBSTITUTE LIGHT FIXTURES FOR PRIOR APPROVAL, ETC.).

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

S1. 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.

| | | | | СО | NTACTOR SCHE | DULE | |
|------------------|--------------------|-----------------|------------|-------------|--------------|-------------|------------------------------------|
| DESIG | CIDCUITS | | CONTAC | TOR CHARACT | ERISTICS | | |
| DESIG- NATION | CIRCUITS SERVED | CONTACT AMPS | N.O. POLES | COIL VOLTS | CONTROL | SUPPLY CKT. | REMARKS |
| C1 | 1HA-6 | 20 | 2 | 277 | DDC | 1HA-6 | ASCO 918 REMOTE CONTROL SWITCH (1) |
| | | | | | | | I |
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| | | | | | | | |

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

ELECTRICAL SYMBOL LEGEND

1. EVERY SYMBOL SHOWN ON LEGEND MAY NOT APPEAR ON DRAWINGS. DASHED ELEECTRICAL 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, "P" INDICATES PILOT LIGHT, "WP" INDICATES WEATHERPROOF. "K" INDICATES KEY POERATED. "MO" INDICATES SPDT MOMENTARY CONTACT. "2" 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

PUSH BUTTON

WALL MOUNT OCCUPANCY SENSOR

DUAL TECHNOLOGY CEILING MOUNTED OCCUPANCY SENSOR

CEILING MOUNTED RESTROOM OCCUPANCY SENSOR **◆**(R)**→**

CEILING MOUNTED CORRIDOR OCCUPANCY SENSOR

CEILING MOUNTED HIGH CEILING OCCUPANCY SENSOR

POWER OUTLETS:

◆> 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 SYMBOLOGY 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 LC1-X 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

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

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 30/NF/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

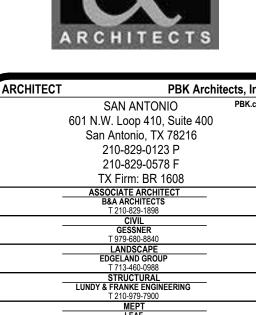
PANELBOARD

SWITCHBOARD / DP T TRANSFORMER

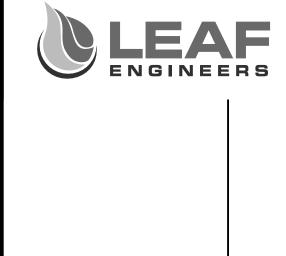
GROUNDING CONNECTION TO GROUNDING ELECTRODE AS DEFINED IN NEC ARTICLE 250

BELL. "WP" INDICATED OUTDOOR RATED

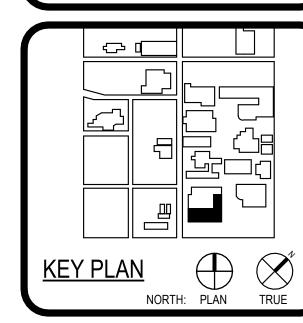














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SCHEDULE

TO LOAD

TO LOAD

BURNDY HYGROUND COMPRESSION CONNECTOR

TAP

TYPE A

BURNDY HYGROUND COMPRESSION CONNECTOR

MAIN RUN
(ELEMENT B)

MAIN RUN
(ELEMENT A)

TYPE B

TYPE C

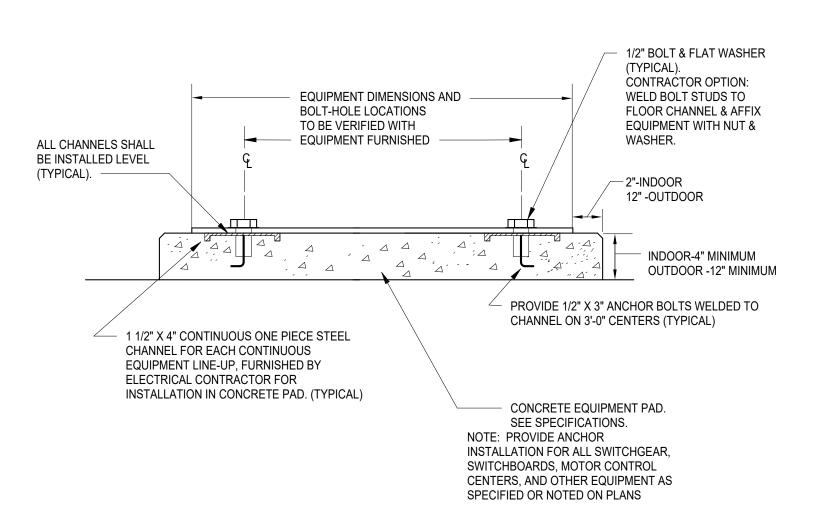
8 GROUNDING COMPRESSION CONNECTIONS

CORE BALANCE TRANSFORMER FOR

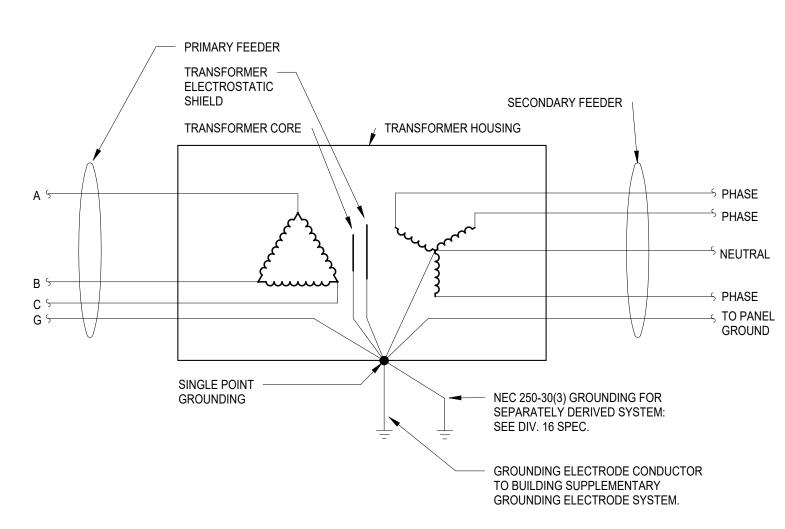
ZERO-SEQUENCE CURRENT SENSING

4 ELECTRIC SERVICE GROUNDING DETAIL
NOT TO SCALE

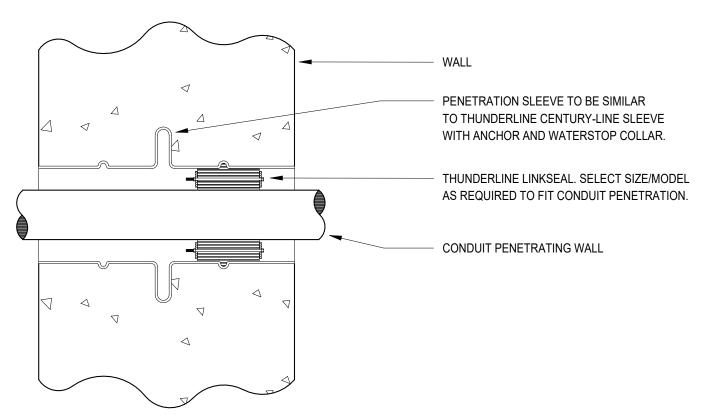
ELECTRODE GROUNDING SYSTEM



3 EQUIPMENT ANCHOR DETAIL NOT TO SCALE



2 DELTA-WYE TRANSFORMER SCHEMATIC NOT TO SCALE



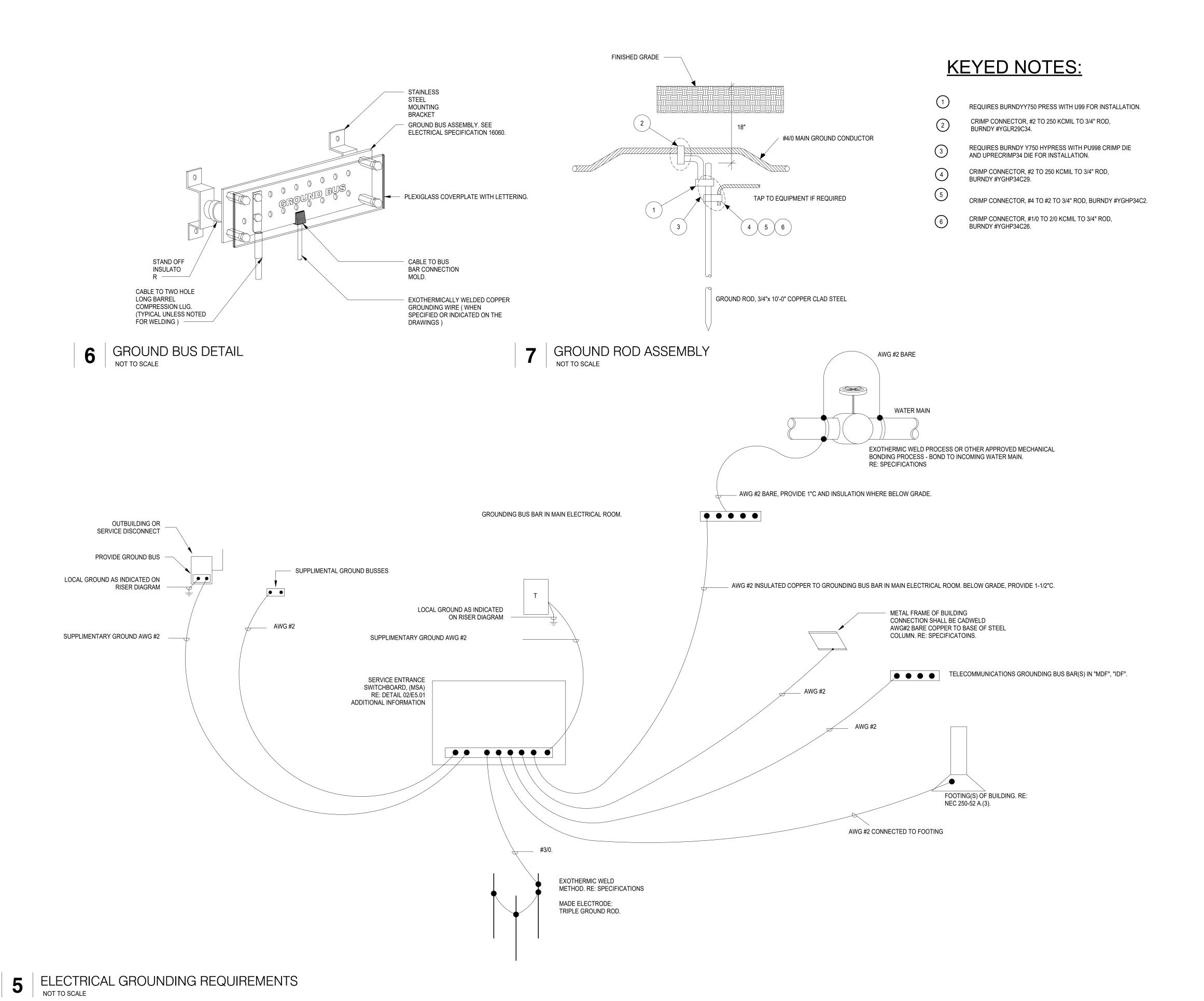
1 CONDUIT PENETRATION DETAIL - EXTERIOR WALL NOT TO SCALE

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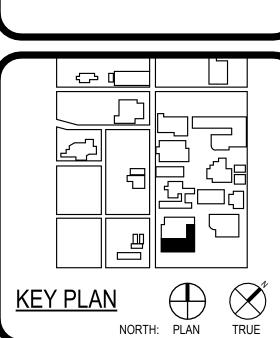






AC Black Box Addition PKG 1

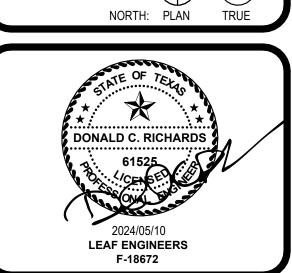
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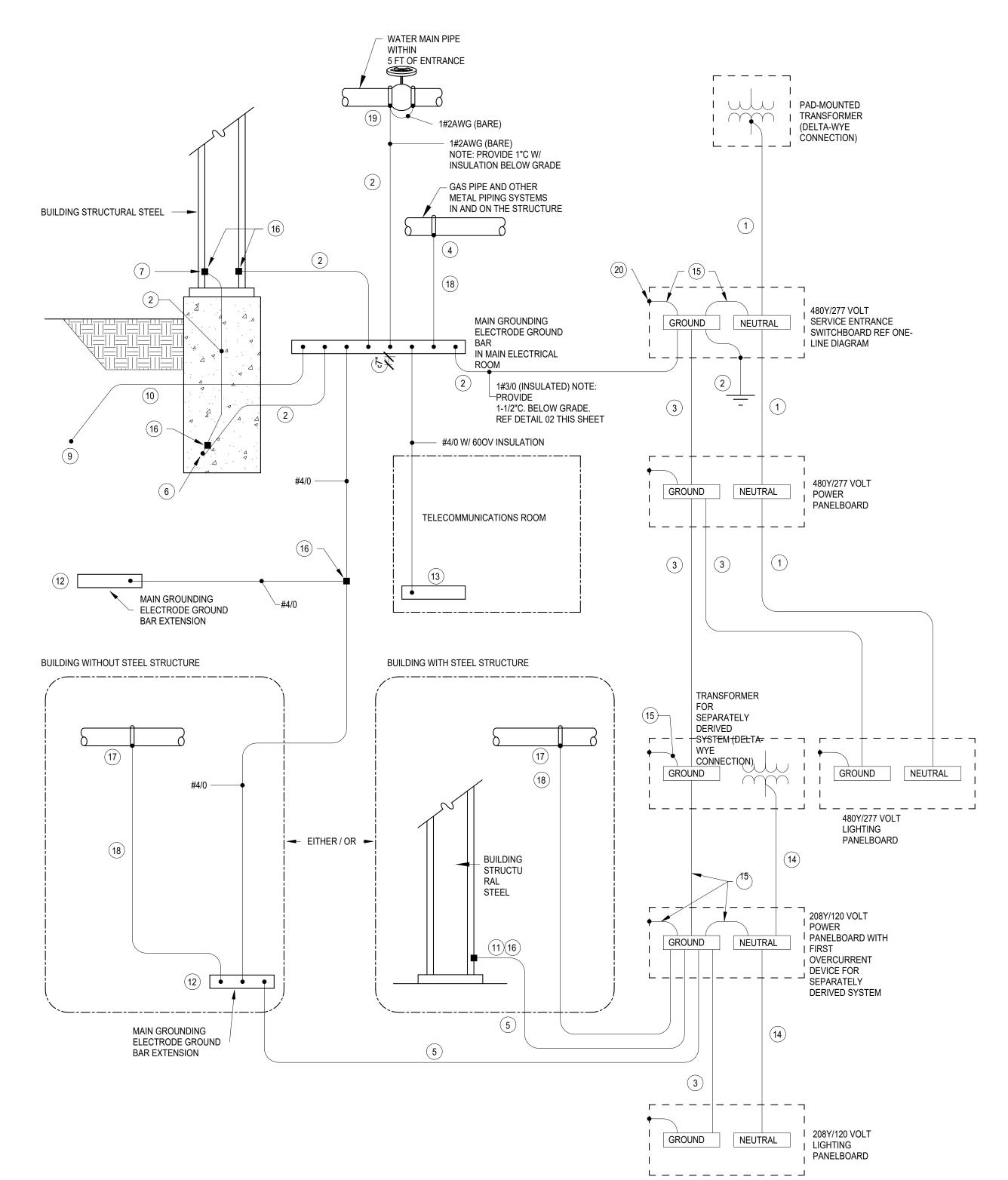
COLLEGES

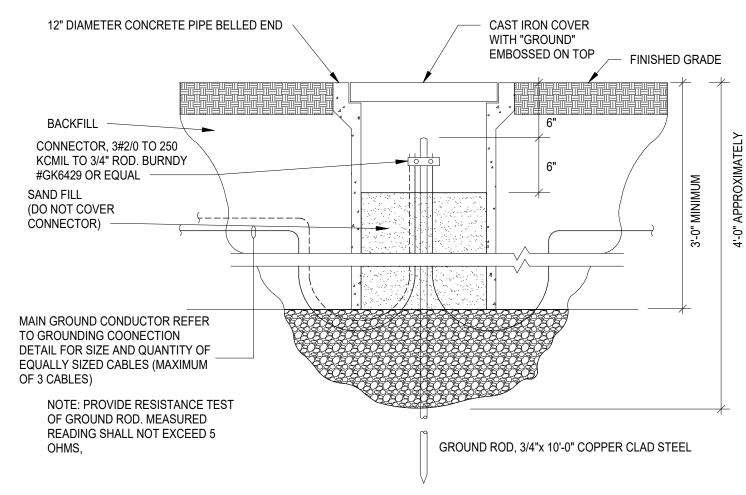


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2 ISOLATED GROUND DETAIL NOT TO SCALE





3 GROUND WELL ASSEMBLY

GENERAL NOTES

- 1. CONDUCTOR SIZES SHOWN ARE MINIMUM AND MAY BE LARGER THAN THE MINIMUM SIZES REQUIRED BY NEC.
- 2. 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.
- 4. 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.
- 5. BOND HOT AND COLD WATER PIPING SYSTEMS.

KEYED NOTES

- INSTALL GROUNDED (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 GROUNDED CONDUCTOR.
- 2 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.
- 3 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.
- 5 INSTALL GROUNDING ELECTRODE CONDUCTOR THAT IS SIZED BASED ON NEC TABLE 250.66 USING THE SEPARATELY DERIVED SYSTEM PHASE CONDUCTOR SIZE.
- 6 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 FLECTRODE:
 - BARE COPPER CABLE NOT SMALLER THAN THE GROUNDING ELECTRODE CONDUCTOR REQUIRED BY THE NEC AND NOT SMALLER THAN 2 AWG, REFER SPEC 26 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" (#11 BAR)
150 FT 1" (#8 BAR)
192 FT 3/4" (#6 BAR)
223 FT 5/8" (#5 BAR)

GROUNDING ELECTRODE GROUND BAR".

BONDING PROCESS, REFER SPEC 26 05 26.

SPADE LUGS.

1/2" (#4 BAR)

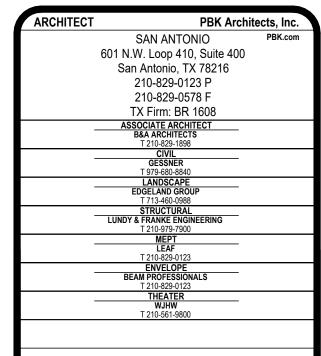
268 FT

- BOND PERIMETER STRUCTURAL STEEL COLUMNS TO THE CONCRETE-ENCASED MAIN GROUNDING ELECTRODE. USE CADWELD CONNECTION TO ATTACH GROUNDING ELECTRODE CONDUCTOR TO BASE OF STEEL COLUMN. REFER SPEC 26 05 26.
- 8 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
- 9 LIGHTNING PROTECTION GROUNDING COUNTERPOISE 3/0 AWG COPPER (IF LIGHTING PROTECTION SYSTEM IS SPECIFIED IN PROJECT, RE: SECTION 26 41 00).
- IF LIGHTNING PROTECTION SYSTEM IS SPECIFIED IN PROJECT (26 41 00), BOND THE LIGHTNING PROTECTION SYSTEM GROUNDING COUNTERPOISE TO THE MAIN GROUND ELECTRODE GROUND BAR. USE 4/0 AWG COPPER CABLE WITH 600 VOLT INSULATION. AT THE UNDERGROUND CONNECTION USE A COMPRESSION CONNECTOR THAT MEETS IEEE 837 REQUIREMENTS OR USE AN EXOTHERMIC WELD.
- USE THE "MAIN GROUNDING ELECTRODE GROUND BAR" INSTEAD OF BUILDING STRUCTURAL STEEL IF THE FIRST OVERCURRENT DEVICE FOR THE SEPARATELY DERIVED SYSTEM IS WITHIN 50 FEET OF THE "MAIN"
- 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
- INSTALL GROUNDED (NEUTRAL) CONDUCTOR THAT IS NOT LESS THAN THE PHASE CONDUCTOR AMPACITY. IF HIGH-HARMONICS ARE PRESENT MAKE NEUTRAL AMPACITY 200% OF THE PHASE CONDUCTOR.
- (15) INSTALL BONDING CONDUCTOR THAT IS SIZED BASED ON NEC TABLE 250.66 USING THE SERVICE OR SEPARATELY-DERIVED SYSTEM PHASE CONDUCTOR SIZE.
- 16 INSTALL IRREVERSIBLE COMPRESSION CONNECTOR WITH TAMPER PROOF HARDWARE OR INSTALL EXOTHERMIC WELD, REFER SPEC 26 05 26.
- BOND TO METAL PIPING SYSTEMS IN THE AREA SERVED BY THE SEPARATELY DERIVED SYSTEM.
- (18) INSTALL BONDING JUMBER 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
- TYPICAL EXOTHERMIC WELD PROCESS OR OTHER APPROVED MECHANICAL BONDING PROCESS, REFER SPEC 26 05 26, UNLESS NOTED OTHERWISE.

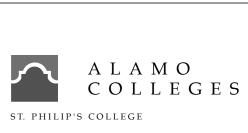
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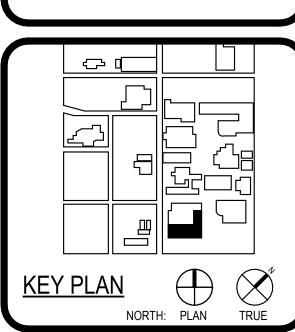


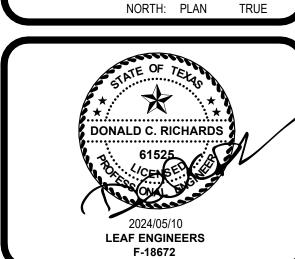




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ELECTRICAL DETAILS

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(A) ITEM NOTED TO BE ABANDONED KW KILOWATTS L LAVATORY ITEM NOTED TO BE DEMOLISHED EXISTING ITEM MAP MASTER ALARM PANEL (E) (N) NEW ITEM MECH MECHANICAL ITEM NOTED TO BE RELOCATED MANHOLE AAP AREA ALARM PANEL MS MOP SINK AUTOMATIC AIR VENT NORMALLY CLOSED ABOVE FINISHED FLOOR NIC NOT IN CONTRACT NO NORMALLY OPEN ACCESS PANEL 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 PIV 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 RO REVERSE OSMOSIS CAST IRON CI 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 TMV THERMOSTATIC MIXING VALVE EA EACH EDF ELECTRIC DRINKING FOUNTAIN TOP TOP OF PIPE FCO FLOOR CLEANOUT TP TRAP PRIMER TYP TYPICAL FD FLOOR DRAIN FDV FIRE DEPARTMENT VALVE U URINAL FF FINISHED FLOOR U/F UNDERFLOOR FHC FIRE HOSE CABINET U/S UNDERSLAB FL FLOW LINE VB VACUUM BREAKER FS FLOOR SINK VCT VITRIFIED CLAY TILE FEET FT 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 INVERT ELEVATION ΙE

PLUMBING ABBREVIATION SCHEDULE

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

AV ACID VENT ⊢-AV--AW ACID WASTE —AW— ⊢—CA— CA COMPRESSED AIR CW | COLD WATER (D) DEMOLISHED PIPING OR EQUIPMENT CONDENSATE <u></u>—D— DSP DRY SPRINKLER ⊢DSP-(E) EXISTING PIPING OR EQUIPMENT F FIRE G NATURAL GAS ——G—~ ⊢GW*→* GW GREASE WASTE HW HOT WATER HWR HOT WATER RETURN OD OVERFLOW DRAIN ⊢—OD— SD STORM DRAIN ⊢SD-SP SPRINKLER ⊢—SP---SS SANITARY SEWER ⊢SS---V VENT ⊢---**→** DIRECTION OF FLOW DROP IN PIPE \longrightarrow RISE IN PIPE GATE VALVE \longmapsto BALL VALVE CHECK VALVE SUPERVISED VALVE WITH FLOW SWITCH $\leftarrow + \downarrow \leftarrow \rightarrow$ 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 $\overline{}$ CO END OF LINE CLEANOUT FCO FLOOR CLEANOUT WCO WALL CLEANOUT FLEXIBLE CONNECTION NEW CONNECTION TO EXISTING PIPING 1. NOT ALL SYMBOLS MAY BE USED ON THESE DRAWINGS.

PLUMBING SYMBOLS LEGEND

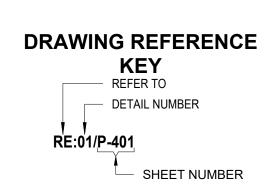
ABV.

DESCRIPTION

DETAILS

DRAWINGS

| | NG PIPE MA SCHEDULE | TERIAL |
|-----------------|--|-------------------------------|
| 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 |



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

WATER HAMMER ARRESTER

SCHEDULE

CROSS FIXTURE UNITS

1-11

12-32

33-60

61-113

114-154

155-330

1. AIR CHAMBERS OR SHOCK ARRESTORS SHALL BE

PROVIDED TO ALL FIXTURE RUNOUT AND SHALL BE SIZED ACCORDING TO LOCAL PLUMBING CODE (AHJ) & 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

PIPE SIZE

1/2" 3/4"

1-1/4"

1-1/2"

NOTES:

PANELS.

PDI STD.

"B"

"C"

"D"

"F"

PROJECT GENERAL NOTES

- A. 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.
- B. 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
- C. ALL PLUMBING WORK SHALL BE COORDINATED WITH ALL OTHER TRADES BEFORE PROCEEDING WITH THE INSTALLATION.
- D. INVERT ELEVATIONS AND EXACT LOCATIONS OF ALL EXISTING UTILITIES SHALL BE CHECKED BEFORE PROCEEDING WITH NEW WORK.
- E. NO CHANGES ARE TO BE MADE IN PLUMBING LAYOUT WITHOUT WRITTEN PERMISSION BY THE ARCHITECT OR ENGINEER.
- F. NO PIPING SHALL RUN EXPOSED IN FINISHED AREAS.
- G. ROUGH-IN DIMENSIONS OF TOILET FIXTURES MUST BE COORDINATED WITH THE GENERAL CONTRACTOR.
- H. PROVIDE SHUT-OFF VALVES FOR WATER HEATER BRANCH. PROVIDE DIELECTRIC FITTINGS OR COUPLINGS WHEREVER DISSIMILAR METALS ARE IN
- I. PROVIDE SHUT-OFF VALVES AT EACH FIXTURE AND AT EACH FLOOR (IF FIXTURES ARE STACKED) ON HOT AND COLD WATER SUPPLY PIPES.
- J. ALL ACCESS PANELS SHALL BE BY GENERAL CONTRACTOR. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR THEIR LOCATION.
- K. INSTALL ALL REQUIRED CLEANOUTS TO CLEAR EQUIPMENT AND FIXTURES.
- L. 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.
- M. 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. 8" AND LARGER PIPING CAN BE SLOPED AT 1/16" PER FOOT.
- N. 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.
- O. PROVIDE CONDENSATE DRAIN FROM ROOF MOUNTED EQUIPMENT TO OPEN SITE DRAIN OR AS SHOWN ON DRAWINGS.
- P. ALL PIPING MATERIAL SHALL BE OF DOMESTIC MANUFACTURE AND SHALL COMPLY WITH THE BUY AMERICAN ACT.

PLUMBING TESTING NOTES

- 1. 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.
- 2. PIPE COVER AND BACKFILLING: A. 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.
- B. EVENLY AND CONTINUOUSLY BACKFILL REMAINING TRENCH DEPTH IN UNIFORM LAYERS WITH BACKFILL MATERIAL.
- C. DO NOT USE WHEELED OR TRACKED VEHICLES FOR TAMPING.
- 3. 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.
- 4. 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.
- 5. 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. 6. ACID WASTE PIPING SYSTEMS: A. 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 FOOT 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
- B. 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.

TIGHT AT ALL POINTS.

- C. EXTERIOR CONNECTIONS SHALL BE TESTED AS PART OF THE INTERIOR SYSTEMS.
- D. ADDITIONAL TESTS: a. PROVIDE ALL ADDITIONAL TESTS SUCH AS SMOKE OR PRESSURE TESTS AS REQUIRED BY THE REGULATIONS OR AS DIRECTED BY AUTHORITIES MAKING THE INSPECTION.
- b. PROVIDE FOR ANY REPEATED TEST AS DIRECTED BY THE OWNER'S REPRESENTATIVE, TO MAKE ALL SYSTEMS TIGHT AS REQUIRED.
- c. VISUAL INSPECTIONS OF JOINTS, VALVES, ETC. SHALL BE MADE AS DIRECTED BY THE ENGINEER
- d. PRESSURE TEST NATURAL GAS PIPING IN ACCORDANCE WITH NFPA 54. PRESSURE TEST PRIOR TO BACKFILL, MINIMUM 50 PSI FOR 24 HOURS.

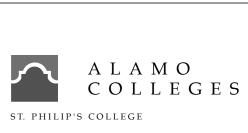


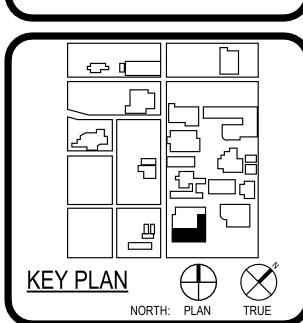


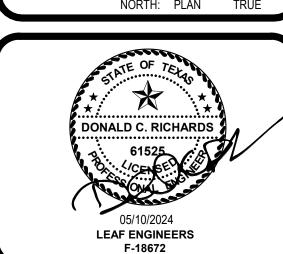












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SYMBOLS AND **ABBREVIATIONS**

RBK

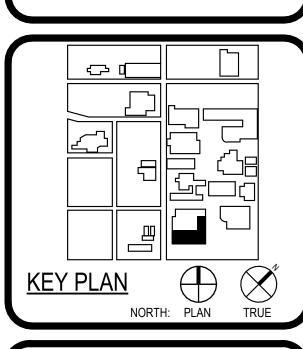


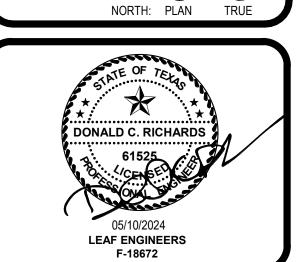


LEAF

Black Box Addition PKG 1







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PU-101-A

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1 CRAWLSPACE PLUMBING PLAN
SCALE: 1/8" = 1'-0"

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3/4" SERVICE DROP (TYPICAL). SECURE EACH SERVICE DROP RIGIDLY TO STRUCTURE _3/4" BALL VALVE COMBINATION FILTER / PRESSURE REGULAOR AND MOISTURE TRAP WITH PRESSURE GAUGE 3/4" x 1/2" TEE~ TYPICAL AT EACH SERVICE DROP QUICK DISCONNECT FITTING _ Ф]----1/4" PET COCK -FINISHED FLOOR

COMPRESSED AIR OUTLET DETAIL

BRONZE CASING-

FREEZE-PROOF, ANTI-

INTEGRAL BACKFLOW PREVENTER----

1. MOUNT HOSE BIBBS AT WALL INTERSECTIONS

IF REQUIRED TO CONCEAL CONNECTIONS ON

SIPHON, FLUSH

MOUNTED WALL

HYDRANT WITH

NOTES:

11 WALL HYDRANT DETAIL SCALE: NOT TO SCALE

12 WALL HYDRANT DETAIL
SCALE: NOT TO SCALE

3/4" COPPER TO

INSULATE PIPE IN

WITH 1/2" THICK

CELLULAR FOAM-

EXTERIOR WALL UP TO HOSE BIBB CASING

COLD WATER

THERMOSTATIC MIXING AS SPECIFIED. VALVE TO BEMOUNTED TO WALL ABOVE CEILING OR SUSPENDED FROM STRUCTURE. MAXIMUM HEIGHT ABOVE CEILING IS DIELECTRIC UNION (TYP.) CEILING—— CHROME PLATED ESCUTCHEON PLATE -EXPOSED SUPPLY PIPING TO BE INSULATED AS SPECIFIED— EMERGENCY SHOWER/EYEWASH AS SPECIFIED BY ARCHITECT-9" DIAMETER FLOOR FLANGE LEG TO FLOOR WITH 3/8"x1 1/4" PHILLIPS SELF DRILLING EXPANSION ANCHORS— ROUTE TO FLOOR DRAIN WITH AIR GAP (PROVIDED AND INSTALLED BY DIVISION NOTES: 1. REFER TO ARCHITECTURAL FOR EXACT LOCATIONS.

TYPICAL SHOCK

ARRESTOR-

EMERGENCY SHOWER/EYEWASH DETAIL SCALE: NOT TO SCALE

/-12"x12" STAINLESS

WATER CLOSET

ALTERNATE INSTALLATION (ONLY WHERE INDICATED)

「A PANEL

/-12"x12" STAINLESS

STEEL ACCESS

WATER CLOSET

OR URINAL

PLAN VIEW

PLAN VIEW

-ROUTE OVERHEAD IN

1" QUICK-COUPLER

CONNECTIONS WHERE

DIRECTED BY OWNER

COMPRESSOR

MK AC-1 AS

SCHEDULED

—120 GALLON

ISOLATION PADS

-ROUTE DRAIN LINE

, | DRAIN FINISHED

FULL SIZE TO FLOOR

/ FLOOR

BUS GARAGE. PROVIDE

STEEL ACCESS

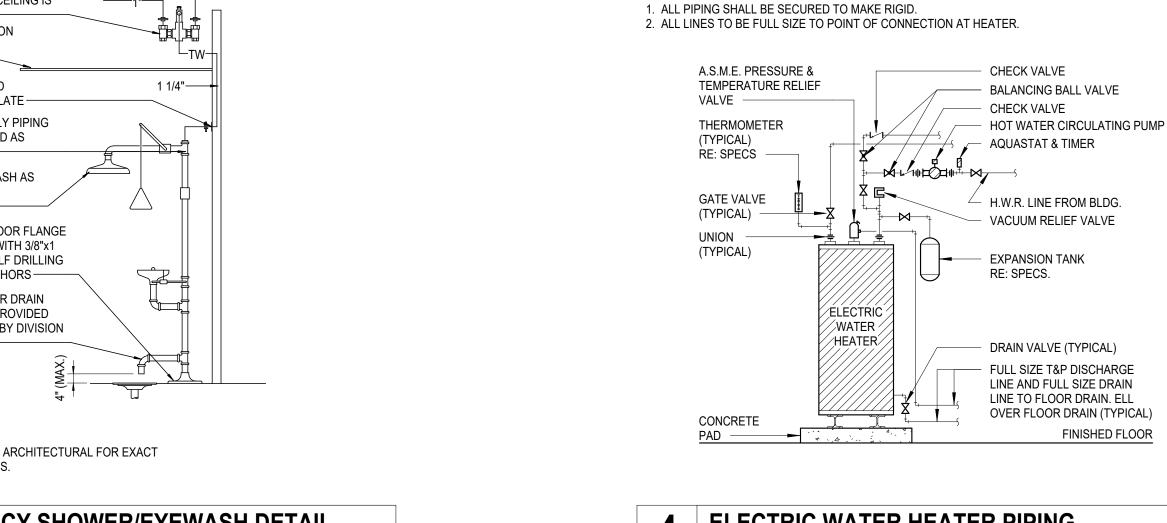
ISOMETRIC VIEW

TYPICAL SHOCK

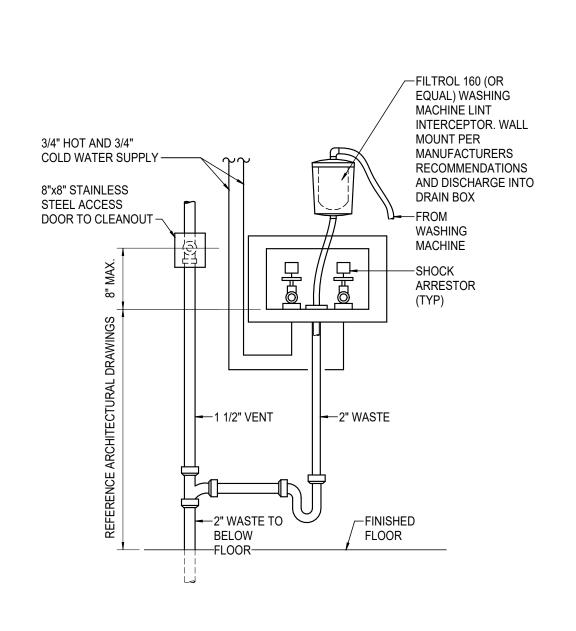
ARRESTOR-

ISOMETRIC VIEW

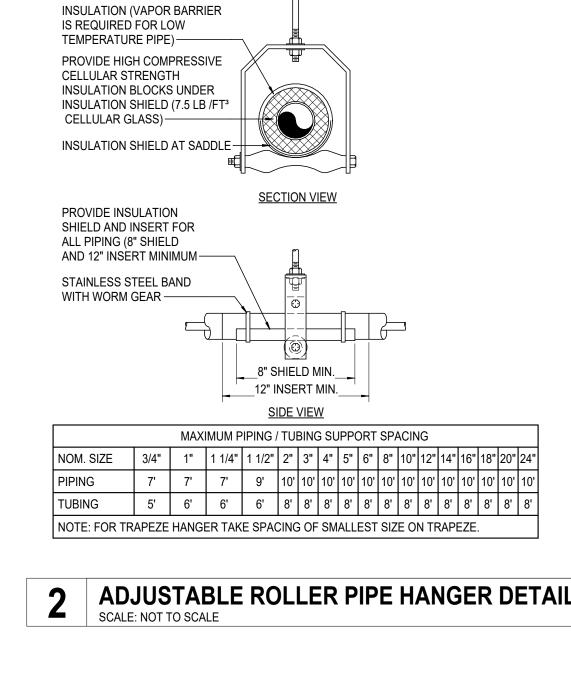
SHOCK ARRESTOR DETAIL SCALE: NOT TO SCALE



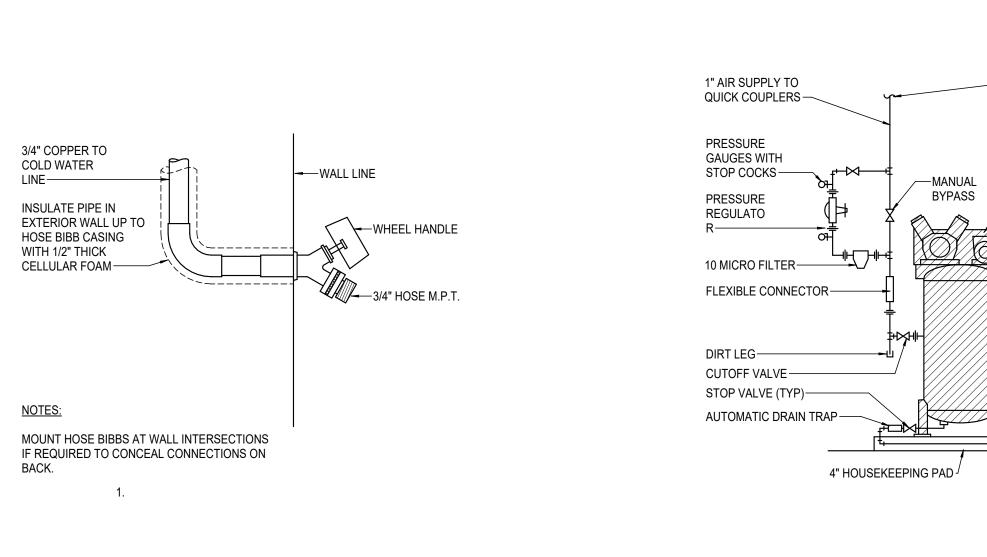




WASHER / DRAIN BOX CONNECTION DETAIL



ADJUSTABLE ROLLER PIPE HANGER DETAIL



-REMOVEABLE KEY

-NICKEL BRONZE

BOX FACE AND

-3/4" HOSE M.P.T.

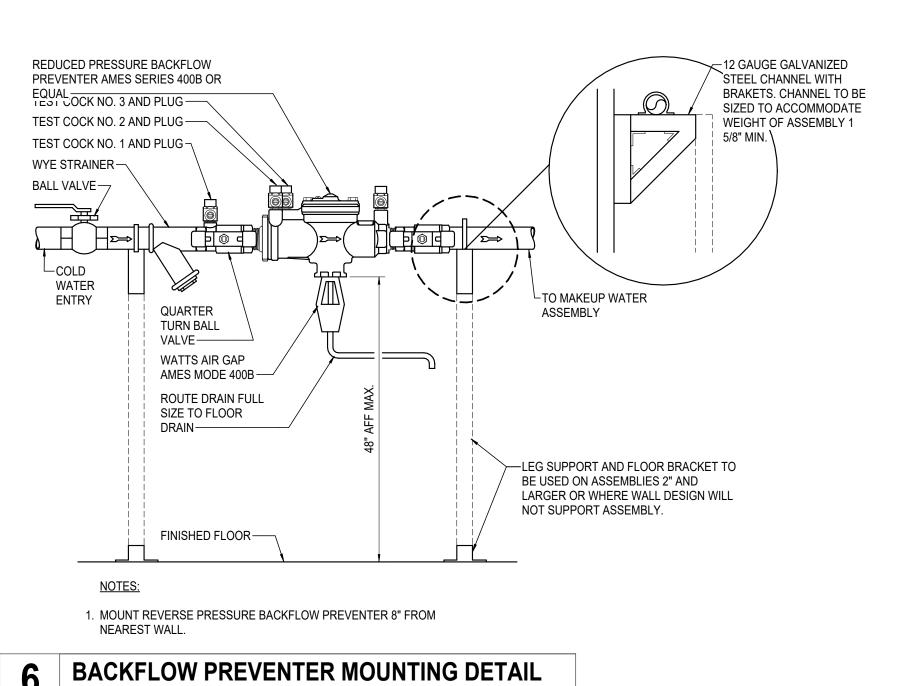
-HINGED COVER

KEY LOCK

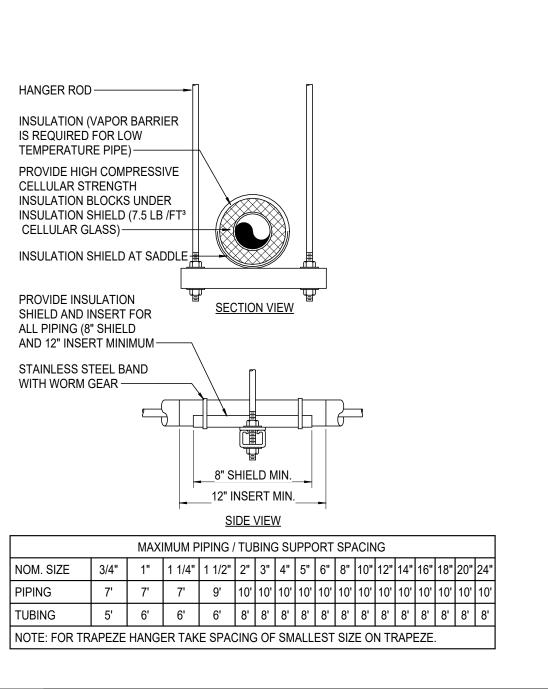
WITH OPERATING

COVER

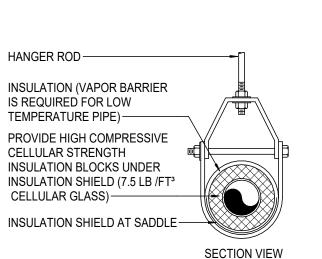
9 AIR COMPRESSOR PIPING DETAIL SCALE: NOT TO SCALE

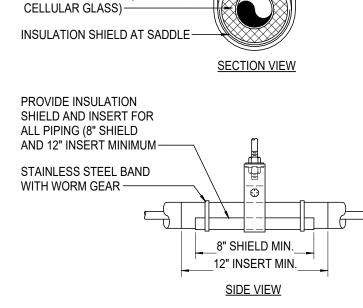


6 BACKFLOW PREVENTER MOUNTING DETAIL
SCALE: NOT TO SCALF



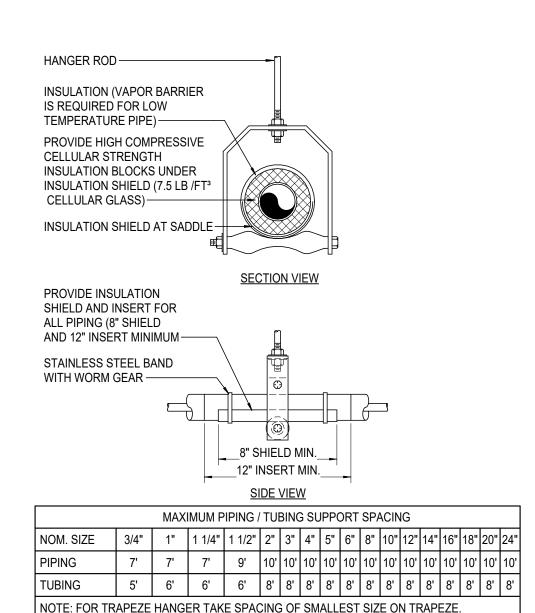


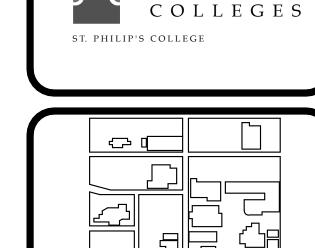




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|--------------|-------|-------|--------|----------|-------------|-------------|----------|------|-----|-----|------|------|-----|-----|-----|-----|-----|
| | | MAX | IMUM P | PIPING / | TUI | BING | 3 SU | JPPO | ORT | SPA | ACIN | IG | | | | | |
| 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 TR | APEZE | HANGI | ER TAK | E SPAC | CINC | G OF | SM | ALL | EST | SIZ | ΕO | N TF | RAP | EZE | | | |

ADJUSTABLE CLEVIS PIPE HANGER DETAIL SCALE: NOT TO SCALE





ALAMO

SAN ANTONIO

601 N.W. Loop 410, Suite 400

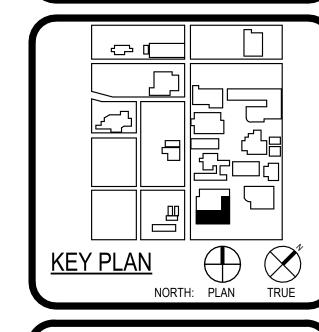
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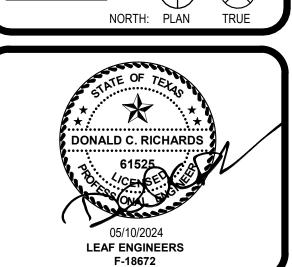
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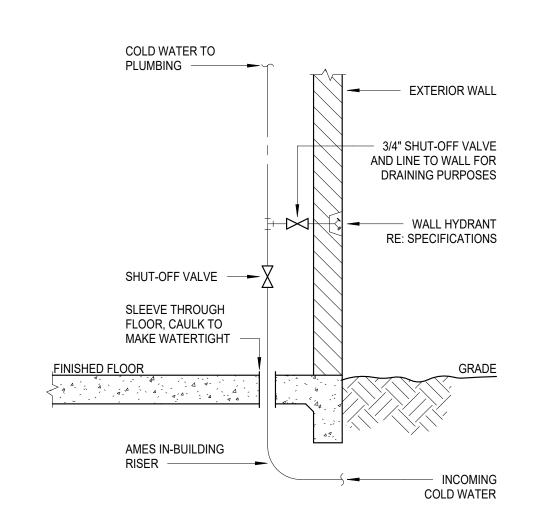
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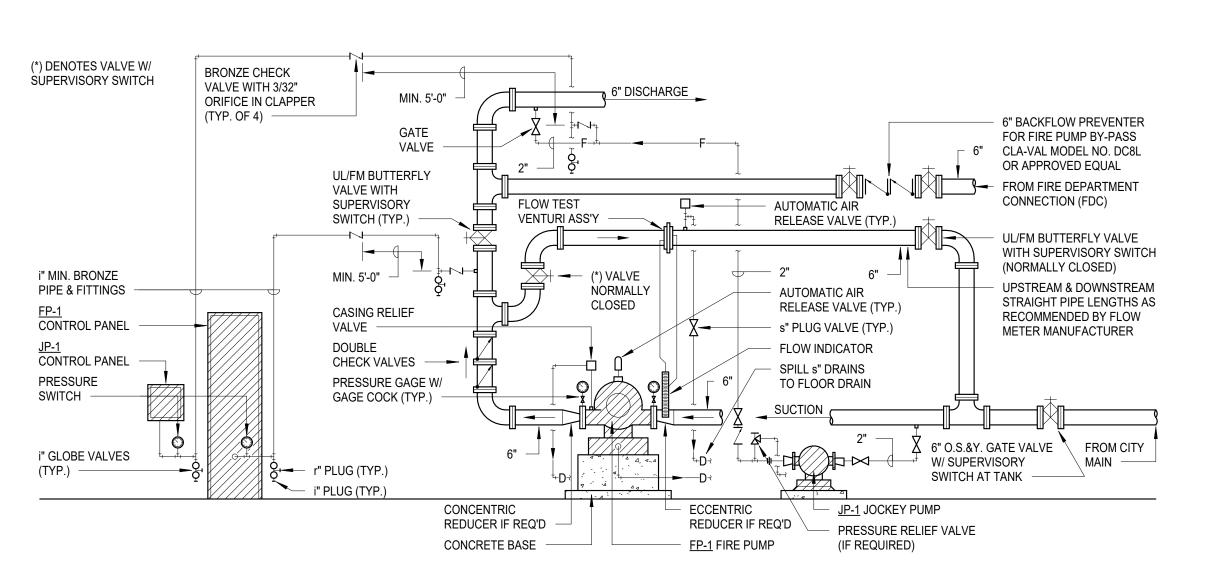
CONDUIT AND WIRING BETWEEN OUTLET AND PUMP BY DIVISION 16 -_ = = = === ____ _ _ _ HYDROMATIC PUMP ANGLE IRON SUPPORT CONTROL PANEL WITH ALARM LIGHT FOR GRATE AND HORN. -ELEV. PIT FOR GRATE - ELEVATOR PIT 45° ELBOW GALVANIZED WALK GRATE DIRECT CONNECTION TO SANITARY SEWER MAIN. HIGH ALARM FLOAT SWITCH UNION BALL VALVE LOW ALARM SWING CHECK VALVE FLOAT SWITCH SUMP PUMP HARD PIPING CONNECTION BY PLUMG. CONTRACTOR ELEV. PIT BY G.C. — SUMP PUMP (ESP-1) IN ELEVATOR AUTOMATIC HYDROMATIC SUMP WEIL 1408 50GPM @15'TDH.

ELECTRICAL SWITCH FOR PUMP ON/OFF SHALL BE LOCATED NEXT TO DISCHARGE AND SHUTOFF VALVE, RE: ELEC. DRWGS.

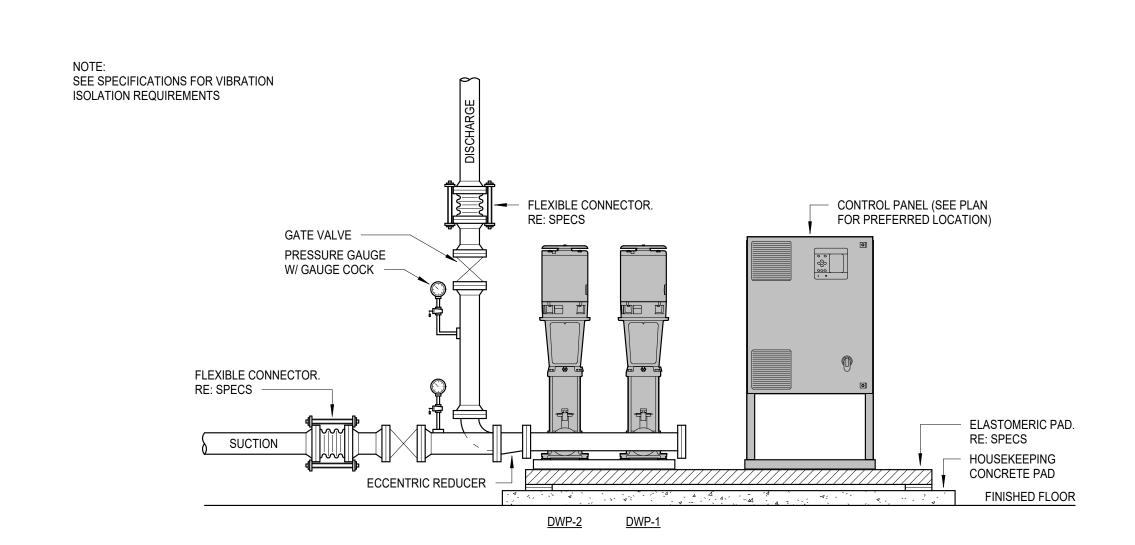
SIMPLEX ELEVATOR SUMP PUMP SCALE: N.T.S



DOMESTIC COLD WATER ENTRY



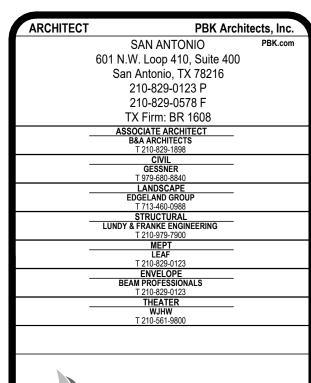
2 FIRE PUMP SCALE: N.T.S



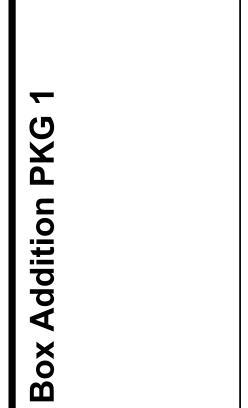
3 DUPLEX PACKAGE PUMPING SYSTEM SCALE: N.T.S

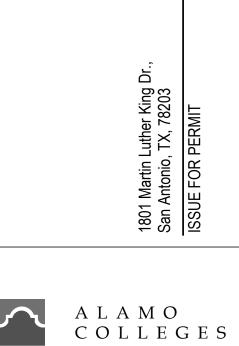


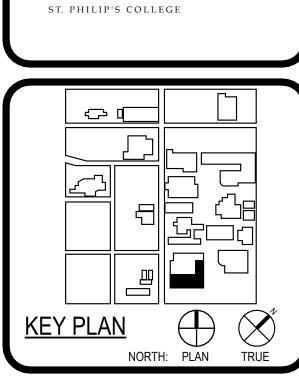


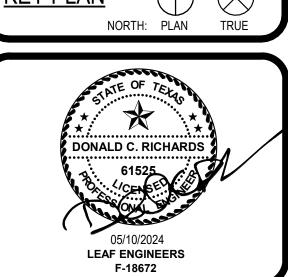












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FIRE ALARM LEGEND SYMBOL DESCRIPTION STOPPER II COVER WITH HORN.

INDICATES RECEIVER.

TO TOP OF PANEL.

TAMPER SWITCH.

DOOR HOLDER.

REFERENCE SPECIFICATIONS FOR MATERIALS AND METHODS.

LED's TO ILLUMINATE STEADY.

MONITOR MODULE

FTC

FTR

REQUIREMENTS.

EMERGENCY TELEPHONE HANDSET.

FIRE ALARM ANNUNCIATOR PANEL.

FIRE ALARM TRANSPONDER.

FOR FIRE FIGHTER OVERRIDE CONTROL.

H FOOT ADDED TO ANY SYMBOL INDICATES WALL MOUNTED. MANUAL FIRE ALARM PULL STATION. INSTALL AT 48" A.F.F. PROVIDE FIRE ALARM SPEAKER OR HORN. PROVIDE WEATHER RESISTANT MODELS FOR DEVICES INSTALLED ON THE EXTERIOR. COMBINATION SPEAKER / STROBE. PROVIDE WEATHER RESISTANT MODELS FOR DEVICES INSTALLED ON THE EXTERIOR. VISUAL ALARM STROBE. SMOKE DETECTOR. NO SUBSCRIPT INDICATES IONIZATION TYPE: "P"

BEAM SMOKE DETECTOR. "T" INDICATES TRANSMITTER. "R"

FIRE FIGHTER'S TELEPHONE JACK. "H" INDICATES PERMANENT

AUXILIARY CONTROL RELAY. "2" INDICATES TWO RELAYS REQUIRED

FIRE/SMOKE DUCT DAMPER WITH MOTOR ACTUATOR (BY DIV. 15).

TERMINAL CABINET FOR FIRE ALARM SYSTEM WIRING.

SPRINKLER SYSTEM GATE VALVE MONITOR SWITCH.

SPRINKLER SYSTEM WATER FLOW SWITCH.

SPRINKLER SYSTEM ALARM CHECK VALVE.

SPRINKLER SYSTEM ELECTRIC ALARM BELL

EVERY SYMBOL SHOWN ON LEGEND MAY NOT APPEAR ON DRAWINGS. REFER TO GENERAL

ELECTRICAL NOTES FOR WALL-MOUNTED DEVICE MOUNTING HEIGHTS AND BACK BOX

COMPLETE INSTALLATION OF ALL PRODUCTS SHALL BE IN COMPLIANCE WITH ALL CODES.

CONTRACTOR SHALL PROVIDE BEAM SMOKE DETECTORS IN ALL HIGH CIELING AREAS AS

SEQUENCE OF OPERATIONS

WHEN A FIRE ALARM CONDITION IS DETECTED BY ANY OF THE SYSTEM ALARM INITIATING

A. THE SYSTEM COMMON ALARM LED ON THE CPU MODULE SHALL FLASH. THE INTERNAL

AUDIBLE TROUBLE DEVICE SHALL SOUND. ACKNOWLEDGEMENT OR SILENCING THE

INFORMATION ASSOCIATED WITH THE ALARM CONDITION INCLUDING: ZONE, DEVICE

TYPE, DIVIDE LOCATION AND TIME OF ALARM. LOCATION AND ZONING MESSAGES

SHALL BE CUSTOM FIELD PROGRAMMED TO RESPECTIVE PREMISES. THE ALARM

INFORMATION MUST BE STORED IN EVENT MEMORY FOR LATER REVIEW. EVENT

MEMORY MUST BE AVAILABLE AT THE MAIN AND ALL REMOTE ANNUNCIATORS.

C. ANY REMOTE OR LOCAL ANNUNCIATOR LED'S ASSOCIATED WITH THE ALARM ZONE

(REMOTE STATION CONNECTION AND SERVICE PROVIDED BY OWNER).

D. A THREE CHANNEL DIGITAL ALARM COMMUNICATOR SHALL BE INTEGRALLY PROVIDED

E. WHEN THE ALARMED DEVICE IS RESTORED TO NORMAL, THE CONTROL PANEL SHALL

F. AN ALARM SHALL BE SILENCED BY A CODE OR FIREFIGHTER KEY AT THE MAIN OR

RESOUNDING OF SUBSEQUENT EVENTS IF ANY OTHER EVENT SHOULD OCCUR,

G. ALL AUTOMATIC EVENTS PROGRAMMED TO THE ALARM POINT SHALL BE EXECUTED

AND THE ASSOCIATED INDICATING DEVICE AND/OR OUTPUTS ACTIVATED. AS EACH

INDICATING CIRCUIT OR CONTROL RELAY IS ACTIVATED, ITS ASSOCIATED "ON" LED

K. RELEASE ALL SMOKE DOOR, FIRE DOORS, FIRE COILING DOORS, FIRE SMOKE DAMPERS

REMOTE ANNUNCIATORS. WHEN SILENCED. THIS SHALL NOT PREVENT THE

BE REQUIRED TO BE MANUALLY RESET TO CLEAR THE ALARM CONDITION, EXCEPT

(SUBSEQUENT ALARM FEATURE). WHEN ALARMS ARE SILENCED THE SILENCED LED ON

THE CONTROL PANEL AND ON ANY REMOTE ANNUNCIATORS SHALL REMAIN LIT UNTIL

AND TRANSMIT TROUBLE AND ALARM SIGNALS TO AN APPROVED REMOTE STATION,

ALARM CONDITION SHALL SILENCE THE ALARM SIGNALS AND CAUSE FLASHING ALARM

DEVICES THE CONTROL PANEL MUST RESPOND WITHIN 3 SECONDS, THE FOLLOWING

B. AN BACK-LIT LCD DISPLAY SHALL INDICATE ALL APPLICABLE

THAT THE ALARMS MAY BE SILENCED AS PROGRAMMED.

THE ALARMED DEVICE IS RETURNED TO NORMAL.

H. ACTIVATE ALL AUDIBLE/VISUAL ALARM DEVICES.

I. DE-ACTIVATE HVAC SYSTEMS OVER 2000 CFM IN AREA OF ALARM.

J. DISPLAY SYSTEM STATUS CHANGES ON THE REMOTE ANNUNCIATOR(S).

SHALL BE ILLUMINATED.

AND FIRE SHUTTERS.

SHALL BE ILLUMINATED AS HEREIN SPECIFIED.

INDUSTRY STANDARDS, COMMON PRACTICES AND MANUFACTURER'S INSTRUCTIONS.

SPRINKLER SYSTEM PRE-ACTION CONTROL PANEL.

PROVIDE FIRE ALARM CONTROL RELAYS AND ADDRESSABLE MODULE.

FIRE ALARM CONTROL PANEL. INSTALL AT 58" TO CENTER OF PANEL / 72"

INDICATES PHOTOELECTRIC TYPE; "D" INDICATES DUCT TYPE AND PHOTOELECTRIC.

STATIONS SHALL BE LOCATED THROUGHOUT THE PROTECTED AREA SO THAT THEY HEAT DETECTOR; COMBINATION RATE OF RISE AND FIXED ARE UNOBSTRUCTED AND ACCESSIBLE; MOUNT WITHIN 5 FT. OF THE EXIT DOORWAY TEMPERATURE. "F" INDICATES FIXED TEMPERATURE ONLY; "R" OPENING AT EACH EXIT ON EACH FLOOR; MOUNT ON BOTH SIDES OF GROUP INDICATES RATE OF RISE ONLY. "C" INDICATES RATE COMPENSATION OPENINGS OVER 40 FT. IN WIDTH, ADDITIONAL B. FIRE ALARM AUDIBLE DEVICES - IF CEILING HEIGHTS ALLOW, WALL-MOUNTED CARBON MONOXIDE DETECTOR.

APPLIANCES SHALL HAVE THEIR TOPS ABOVE THE FINISHED FLOORS AT HEIGHTS OF NOT LESS THAN 90 IN. AND BELOW THE FINISHED CEILINGS AT HEIGHTS OF NOT LESS THAN 6 IN. THIS REQUIREMENT SHALL NOT PRECLUDE CEILING-MOUNTED OR RECESSED APPLIANCES. COMPLY WITH NFPA 72, CHAPTER 4.

GENERAL FIRE ALARM NOTES

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'S SYSTEM REQUIREMENTS. (TYPICAL) ELECTRICAL CONTRACTOR SHALL BE

UNLESS SPECIFICALLY INDICATED ON THE DRAWINGS OR OTHERWISE INSTRUCTED BY THE

ARCHITECT OR AS NOTED IN NFPA, FIRE ALARM DEVICES SHALL HAVE THE FOLLOWING

A. MANUAL FIRE PULL STATIONS - MOUNT AT 42" AFF TO THE TOP OF BOX FOR FRONTAL

WHEELCHAIR APPROACH; AND 48" AFF FOR SIDE WHEELCHAIR APPROACH. PULL

MOUNTING HEIGHTS. VERIFY EXACT HEIGHT WITH ARCHITECT. DIMENSIONS ARE TO

SYSTEM INSTALLERS SHALL COORDINATE LOCATION AND CONNECTION OF CONTROL

RESPONSIBLE FOR ALL POWER TOMAIN CONTROL PANELS AND ALL HEAD END EQUIPMENT.

POWER REQUIREMENTS FOR ALL REMOTE POWER SUPPLIES. THE GENERAL

CONTRACTOR'S LICENSED ELECTRICAL SUBCONTRACTOR SHALL COORDINATE

ELECTRICAL PANEL LOCATIONS AND AVAILABLE SPACE DEDICATED FOR THE

PANEL AND HEAD END POWER WITH THE PROJECT'S ELECTRICAL CONTRACTOR.

CONTRACTOR OF EACH SYSTEM SHALL BE RESPONSIBLE FOR PROVIDING THEIR OWN 120V

SOUND PRESSURE LEVEL SHALL EXCEED THE PREVAILING EQUIVALENT SOUND IN THE ROOM BY AT LEAST 15 dbA OR EXCEED ANY MAX SOUND LEVEL WITH A DURATION OF 60 SECONDS BY 5 dbA, WHICHEVER IS LOUDER. SOUND LEVELS FOR ALARM SIGNALS SHALL NOT EXCEED 120 dbA.

FIRE ALARM VISUAL DEVICES SHALL COMPLY WITH NFPA 72, CHAPTER 4.

A. VISUAL APPLIANCES CANDELA SHALL BE THE HIGHEST VALUE ALLOWED BY NFPA TABLE IN ORDER TO INSTALL THE FEWEST NUMBER OF STROBES.

B. THE LAMP SHALL BE XENON STROBE TYPE OR EQUIVALENT. C. THE COLOR SHALL BE CLEAR OR NOMINAL WHITE.

CENTER OF BOX UNLESS OTHERWISE NOTED:

THE MAX. PULSE DURATION SHALL BE TWO TENTHS OF ONE SECOND (0.2 SEC) WITH A MAX. DUTY CYCLE OF 40%. THE PULSE DURATION IS DEFINED AS THE TIME INTERVAL

BETWEEN INITIAL AND FINAL POINTS OF 10% MAX. SIGNAL E. THE INTENSITY SHALL BE A MINIMUM OF 75 CANDELA.

F. THE FLASH RATE SHALL BE A MIN. OF 1Hz AND MAX. OF 3Hz.

VISUAL APPLIANCES SHALL BE PLACED 80" ABOVE THE HIGHEST FLOOR LEVEL WITHIN THE SPACE OR 6" BELOW THE CEILING, WHICHEVER IS LOWER. CEILING MOUNTED WERE

AT A MINIMUM, VISUAL SIGNALS APPLIANCES SHALL BE PROVIDED IN BUILDINGS AND FACILITIES IN EACH OF THE FOLLOWING AREAS: HALLWAYS, LOBBIES, AND ANY OTHER GENERAL USAGE AREAS.

ALL EQUIPMENT AND WORK PERFORMED SHALL COMPLY WITH ALL OF THE CURRENT AND APPLICABLE CODES, RULES, ORDINANCES, REGULATIONS, AND STANDARDS AS INTERPRETED AND ENFORCED BY THE AUTHORITIES HAVING JURISDICTION.

PROVIDE POWER FOR REMOTE BATTERY SUPPLIES AND BOOSTER PANELS AS NEEDED. FIRE ALARM CONTRACTOR TO COORDINATE WITH ELECTRICAL CONTRACTOR FOR CIRCUIT.

B. ALL FIRE ALARM WIRING SHALL ROUTE DOWN CORRIDORS AND WALKWAYS PARALLEL AND PERPENDICULAR TO BUILDING WALLS.

ALL FIRE ALARM CABLING SHALL BE SUPPORTED IN DEDICATED CABLE SUPPORTS. DO NOT

ROUTE IN OR TIE-WRAP DIRECTLY TO THE BUILDING'S STRUCTURE. 10. CONTRACTOR TO INSTALL RELAYS IN ALL KITCHEN HOOD ANSUL SYSTEMS TO NOTIFY MAIN

FIRE ALARM PANEL UPON ACTIVATION. 11. ALL NOTIFICATION APPLIANCE CIRCUIT CABLES AND ALL OTHER FIRE ALARM SYSTEM CABLE SHALL HAVE A RED OUTER JACKET.

12. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ANY CONDUITS AND/OR BOXES REQUIRED FOR THE INSTALLATION FIRE ALARM DEVICES.

13. PROVIDE AND INSTALL PROTECTIVE BUSHINGS ON ALL STUB-OUTS AND SLEEVES TO PREVENT CABLE DAMAGE. BUSHINGS TO BE INSTALLED PRIOR TO CABLE INSTALLATION. CUTTING BUSHING AND INSTALLING AFTER CABLE IS INSTALLED WILL NOT BE ACCEPTED.

14. PROVIDE AND INSTALL STOPPER II PROTECTIVE COVERS WITH A LOCAL ALARM FOR ALL MANUAL PULL STATIONS ON THE ENTIRE PROJECT. 15. CONTRACTOR TO PROVIDE CEILING MOUNTED LED NOTIFICATION DEVICES WITH TEST

BUTTON FOR ALL DUCT DETECTORS THAT ARE MOUNTED ABOVE CEILING AND/OR IN LOCATIONS NOT VISIBLE FROM THE FLOOR. 16. ALL FIRE ALARM DEVICES ARE NEW UNLESS NOTED OTHERWISE. CONTRACTOR TO

CONNECT NEW DEVICES TO NEW FIRE ALARM PANEL AND CONFIGURE PANEL FOR NEW

DEVICES AND LAYOUT. 17. CONTRACTOR SHALL PROVIDE AND INSTALL A RELAY FOR EACH FIRE/SMOKE DAMPER ON

ABOVE 2,000 CFM AND PER NFPA. PROVIDE DUCT DETECTORS IN BOTH THE HOT AND COLD

DECK ON ALL OF THE AHU UNITS. REFER TO MECHANICAL DRAWINGS FOR QUANTITIES AND

PROJECT. REFER TO MECHANICAL DRAWINGS FOR LOCATIONS. 18. CONTRACTOR SHALL PROVIDE DUCT DETECTORS ON ALL AIR HANDLING UNITS RATED

19. CONTRACTOR SHALL PROVIDE ALL CABLING AND DEVICES REQUIRED TO PROVIDE THE SHUT-DOWN OF ALL HVAC AIR HANDLING UNITS UPON THE FIRE ALARM SYSTEM ENTERING ALARM STATE AND START UP OF ALL AIR HANDLING UNITS UPON THE FIRE ALARM SYSTEM

20. CONTRACTOR SHALL PROVIDE ALL REQUISITE FIRE ALARM MODULES AND CABLING AS REQUIRED TO PROVIDE CONTROL OF THEATER / AUDITORIUM HOUSE LIGHTS IN ORDER TO BRING THE LIGHTS UP TO 100% IN AN ALARM EVENT. COORDINATE WITH OTHER TRADES.

BEING RESET TO A NON-ALARM STATE.

ALL CORRIDORS AND OTHER SPACES PER NFPA 72.

1. PROVIDE MOUNTING SUPPORT FROM GRID OR BUILDING STRUCTURE FOR ALL DEVICES INSTALLED IN LAY-IN CEILING TILE.

22. ALL 120V POWER FOR THE SYSTEMS SHALL BE INSTALLED WITHIN THE ENCLOSURE OR INSTALLED IN CONDUIT CONNECTED TO THE ENCLOSURE SO THAT NO CABLING IS

EXPOSED. MC CABLE, ROMEX, SO CABLES OR OTHER METHODS ARE NOT ACCEPTABLE. 23. CONTRACTOR SHALL PROVIDE SMOKE DETECTION DEVICES ABOVE ALL PARTIAL CEILING IN

AUDIO & VIDEO GENERAL NOTES

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 (TYPICAL). ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL POWER TO MAIN CONTROL PANELS AND ALL HEAD END EQUIPMENT.

THE PROJECT'S ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL IN WALL CONDUITS, BELOW GRADE CONDUITS, BELOW SLAB CONDUITS, CONDUITS ACROSS OPEN AREAS, BACK BOXES, SLEEVES AND PULL STRING REQUIRED FOR DEVICES AND PATHWAYS SHOWN ON THE FLOOR PLANS AND DETAIL SHEETS. ANY ADDITIONAL CONDUITS, SLEEVES, AND RACEWAY REQUIREMENTS FOR EACH SYSTEM SHALL BE THE RESPONSIBILITY OF EACH SYSTEM INSTALLER.

ALL EXPOSED WIRING OR WIRING ROUTING ACROSS NON ACCESSIBLE CEILINGS SHALL BE ROUTED IN CONDUIT. SIZE CONDUIT AS REQUIRED TO ROUTE SYSTEMS WITH 40%

ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING ALL EXTERIOR WALL PENETRATIONS ARE PROPERLY SEALED TO PREVENT ELEMENTS FROM ENTERING BUILDING.

CABLE FILL RATIO. MINIMUM CONDUIT SIZE SHALL BE 3/4".

. NO CONDUITS OR SEAL-TITE SHALL BE INSTALLED ON THE EXTERIOR OF THE BUILDING. . ALL CONDUIT STUB OUTS AND SLEEVES SHALL HAVE PROTECTIVE BUSHINGS TO PREVENT

TO MAINTAIN A 40% MAXIMUM FILL RATION ON ALL SLEEVES INSTALLED. ALL CABLE SHALL BE ROUTED DOWN CORRIDORS. PARALLEL AND PERPENDICULAR TO THE BUILDING WALLS AND STRUCTURE. CABLE TO EACH DEVICE SHALL BRANCH OFF OF A MAIN

CABLE DAMAGE. BUSHING TO BE INSTALLED PRIOR TO CABLE INSTALLATION. CUTTING

BUSHING AND INSTALLING AFTER CABLE IS INSTALLED WILL NOT BE ACCEPTED. CONTRACTOR

CORRIDOR TRUNK, ROUTING CABLES THROUGH CLASSROOMS, OFFICES, STORAGE ROOMS, RESTROOMS OR ANY TYPE OF ROOM OTHER THAN A CORRIDOR WILL NOT BE ACCEPTED. ENTER ALL ROOMS ABOVE THE ASSOCIATED ROOM DOORWAY. . THE SYSTEM INSTALLER SHALL PROPERLY SUPPORT ALL INSTALLED SYSTEM CABLING FROM

A PANDUIT J-MOD CABLE SUPPORT SYSTEM OR OTHER SUPPORT SYSTEM AS DETAILED IN SPECIFICATIONS. NO CABLING SHALL BE ROUTED AND TIED DIRECTLY TO BUILDING STEEL CEILING GRID SUPPORT, CONDUIT, PIPING, OR DUCTWORK. THE CABLE SUPPORT SYSTEM SHALL BE DIRECTLY CONNECTED TO THE BUILDING'S STEEL JOIST. AT LOCATIONS WHERE THE BOTTOM OF THE JOIST IS MORE THAN 5' ABOVE THE CEILING, THE SYSTEM INSTALLER SHALL PROVIDE AND INSTALL THREADED ROD AND ALL REQUIRED MATERIALS TO CONNECT THE THREADED ROD TO THE BUILDING STEEL AND THE CABLE SUPPORT SYSTEM TO THE THREADED ROD. CABLE PATHWAY SHALL NOT BE HIGHER THAN 5' ABOVE THE CEILING AT ANY LOCATIONS.

. ALL EXTERIOR AND WALL MOUNTED SPEAKERS SHALL BE MOUNTED AT 10'-0" UNLESS OTHERWISE NOTED.

10. EXTERIOR SPEAKERS SHALL BE ON A SEPARATE LOW VOLTAGE CIRCUIT FROM INTERIOR SPEAKERS.

1. A/V CONTRACTOR SHALL COORDINATE ALL MOUNTING LOCATIONS OF ALL A/V DEVICES TO PROVIDE EVEN AND BALANCED AUDIO COVERAGE OF INTENDED LISTENING AREAS AND UNOBSTRUCTED, SQUARE AND PLUMB VIDEO IMAGE DISPLAYS.

12. ALL LAY-IN CEILING MOUNTED SPEAKERS AND DEVICES SHALL BE INSTALLED UTILIZING A TILE BRIDGE SUPPORT SYSTEM. AT NO POINT SHOULD THE WEIGHT OF A CEILING MOUNTED DEVICE BE SUPPORTED BY A CEILING TILE ALONE.

13. A/V CONTRACTOR TO COORDINATE WITH ELECTRICAL CONTRACTOR FOR ALL CONDUIT AND BACK BOX REQUIREMENTS.

14. A/V CONTRACTOR TO COORDINATE WITH ALL OTHER TRADES WITH REGARD TO BLOCKING AND PROPER SUPPORT OF ALL A/V DEVICES.

15. PROVIDE MOUNTING SUPPORT FROM GRID OR BUILDING STRUCTURE FOR ALL DEVICES INSTALLED IN LAY-IN CEILING TILE.

SECURITY SYSTEMS LEGEND

| G | SYMBOL | DESCRIPTION |
|---------|--------------|---|
| | • | INTERIOR VIDEO SURVEILLANCE CAMERA. PROVIDE ALL REQUISITE MOUNTING HARDWARE. PROVIDE CEILING TILE BRIDGE FOR ALL CAMERAS INSTALLED IN LAY-IN CEILNG TILE. WALL MOUNTED CAMERAS INSTALLED AT 12' A.F.F. UNLESS OTHERWISE NOTED. PROVIDE SINGLE GANG BACK BOX WITH (1) 3/4" CONDUIT STUBBED OUT ABOVE NEAREST ACCESSIBLE CEILING WITH PULL STRING FOR WALL MOUNTED CAMERAS. |
| | H ⊕ ◀ | EXTERIOR WALL MOUNTED CAMERA VIDEO SURVEILLANCE CAMERA INSTALLED AT 12' A.F.F. UNLESS OTHERWISE NOTED. PROVIDE ALL REQUISITE MOUNTING HARDWARE. PROVIDE SINGLE GANG BACK BOX WITH (1) 3/4" CONDUIT STUBBED OUT ABOVE NEAREST ACCESSIBLE CEILING WITH PULL STRING. |
| DEVICES | ⊢\$ - | WALL MOUNTED MOTION DETECTOR INSTALLED AT 12' A.F.F. UNLESS OTHERWISE NOTED. PROVIDE SINGLE GANG BACK BOX WITH (1) 3/4" CONDUIT STUBBED OUT ABOVE NEAREST ACCESSIBLE CEILING WITH PULL STRING. |
| DEV | \$ | 360 DEGREE CEILING MOUNTED MOTION DETECTOR. |
| | HKP | INTRUSION DETECTION SYSTEM ARM/DISARM KEYPAD WITH LOCKING VANDAL RESISTANT COVER. |
| | PB | PANIC BUTTON TO BE TIED TO EMERGENCY GENERATOR. |
| | CONT | INTRUSION DETECTION CONTROL PANELS MOUNTED ON WALL. ELECTRICAL CONTRACTOR TO PROVIDE 120V. POWER TO PANEL. PROVIDE (1) TELEPHONE LINE AND (1) NETWORK CABLE TO PANEL. COORDINATE WITH DISTRICT TECHNOLOGY DEPARTMENT ON ACTIVATING VOICE LINE AND ACQUIRING AN IP ADDRESS. |
| | CR | ACCESS CONTROL PROXIMITY CARD READER. MOUNT AT 42" A.F.F. PROVIDE ALTRONIX LPD FOR EACH CARD READER. |
| | DR | DOOR RELEASE BUTTON (TO BE CONNECTED TO DOOR INDICATED). |
| | DC | DOOR CONTACT. PROVIDE SURFACE MOUNT CONTACT ON ROLL-UP DOORS. PROVIDE DOOR CONTACT ON ALL ROOF HATCHES. |
| | \ <u>\</u> | |

1. EVERY SYMBOL SHOWN ON LEGEND MAY NOT APPEAR ON DRAWINGS. REFER TO GENERAL

WALL MOUNTED GLASS BREAK DETECTOR. MOUNT AT 12'-0" A.F.F.

2. REFERENCE SPECIFICATIONS FOR MATERIALS AND METHODS.

CEILING MOUNTED GLASS BREAK DETECTOR.

3. COMPLETE INSTALLATION OF ALL PRODUCTS SHALL BE IN COMPLIANCE WITH ALL CODES, INDUSTRY STANDARDS, COMMON PRACTICES AND MANUFACTURER'S INSTRUCTIONS.

ELECTRICAL NOTES FOR WALL-MOUNTED DEVICE MOUNTING HEIGHTS.

BDA/DAS SYSTEMS LEGEND SYMBOL BI-DIRECTIONAL AMPLIFIER (BDA) SIGNAL BOOSTER, CONTRACTOR SHALL CONNECT THE BDA SYSTEM TO THE FIRE ALARM SYSTEM FOR MONITORING PURPOSES. PROVIDE (2) DEDICATED CIRCUITS ON EMERGENCY POWER. BDA ANNUNCIATOR PANEL. PROVIDE FLUSH MOUNT SINGLE GANG BOX AT 54" A.F.F. WITH A 1" CONDUIT STUBBED OUT ABOVE NEAREST ACCESSIBLE CEILING.

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

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 (TYPICAL).

CONTRACTOR SHALL COORDINATE WITH THE TECHNOLOGY CONSULTANT PRIOR TO THE INSTALLATION OF RACKS AND RACK EQUIPMENT. NO RACKS SHALL BE PERMANENTLY

INSTALLED WITHOUT WRITTEN APPROVAL OF THE TECHNOLOGY CONSULTANT. THE PROJECT'S ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONDUITS, PULL STRINGS, BACK BOXES AND SLEEVES REQUIRED FOR DEVICES AND PATHWAYS SHOWN ON THE FLOOR PLANS AND DETAIL SHEETS, ANY ADDITIONAL CONDUITS.

SLEEVES. AND RACEWAY REQUIREMENTS FOR EACH SYSTEM SHALL BE THE

THE SELECTED. INSTALLING CONTRACTOR MUST BE A CERTIFIED INTEGRATOR/INSTALLER AUTHORIZED BY THE SPECIFIED SYSTEM MANUFACTURER TO INSTALL THE CABLE PLANT AND CONNECTIVITY PRODUCTS. REFER TO SPECIFICATIONS FOR PRODUCT TYPE AND

SYSTEM WIRING AND EQUIPMENT INSTALLATION SHALL BE IN ACCORDANCE WITH

ENGINEERING BEST PRACTICES AS ESTABLISHED BY ANSI/EIA/TIA, BICSI, AND THE NEC. 6. ALL WIRING SHALL MEET ALL STATE AND LOCAL ELECTRICAL CODES.

RESPONSIBILITY OF EACH SYSTEM INSTALLER.

7. ALL TELECOMMUNICATIONS SYSTEMS EQUIPMENT AND MOUNTING LOCATIONS SHALL BE IN COMPLIANCE WITH ADA ACCESSIBILITY STANDARDS.

8. ALL DATA CABLES ARE TO BE INSTALLED WITH A MINIMUM OF 12 INCHES OF SEPARATION FROM AC POWER CABLES AND ALL OTHER LOW VOLTAGE CABLING IN ANY PARALLEL OPEN WIRE RUN.

9. ALWAYS CROSS OTHER SYSTEM CABLES AT A 90 DEGREE ANGLE

10. ALL CABLES AND TERMINATION COMPONENTS SHALL BE MACHINE LABELED AT BOTH ENDS. LABEL ALL CABLES PER THE TECHNOLOGY DRAWINGS AND/OR SPECIFICATIONS. FINAL CABLE/OUTLET IDENTIFICATION LABELS SHALL BE COORDINATED WITH THE OWNER AND

11. CONTRACTOR TO PROVIDE LIGHTNING PROTECTION ON ALL COMMUNICATION CABLE BETWEEN BUILDINGS AND EXTERIOR MOUNTED DEVICES.

12. ALL EXPOSED CABLING ROUTED IN PLENUM SHALL BE PLENUM-RATED. ALL NON PLENUM-RATED CABLING INSTALLED IN PLENUM SPACES SHALL BE INSTALLED IN CONDUIT.

13. NO TERMINATION OR SPLICES SHALL BE INSTALLED IN OR ABOVE CEILINGS UNLESS NOTED OTHERWISE.

14. CONTRACTOR SHALL MAINTAIN WALL RATING WITH PROPER FIRE BLOCKING METHODS.

15. CONTRACTOR SHALL ROUTE ALL LOW VOLTAGE CABLING DOWN CORRIDORS AND PERPENDICULAR OR PARALLEL TO BUILDING WALLS. ENTER INTO ALL ROOMS FROM THE CORRIDOR ABOVE THE MAIN DOORWAY.

16. ALL COMMUNICATION CABLE INSTALLED SHALL ROUTE TO THE CENTER OF THE ROOM IN WHICH IT SERVES AND THEN TO THE OUTLET LOCATION IT IS INTENDED FOR. EACH CABLE SHALL HAVE A 10' SERVICE LOOP AT THE CENTER OF EACH ROOM AND A 3' SERVICE LOOP ABOVE EACH OUTLET LOCATION.

17. THE SYSTEM INSTALLER SHALL PROPERLY SUPPORT ALL INSTALLED SYSTEM CABLING FROM A PANDUIT J-MOD CABLE SUPPORT SYSTEM OR OTHER SUPPORT SYSTEM AS DETAILED IN SPECIFICATIONS. NO CABLING SHALL BE ROUTED AND TIED DIRECTLY TO BUILDING STEEL, CEILING GRID SUPPORT, CONDUIT, PIPING, OR DUCTWORK. CABLING SUPPORT SYSTEM SHALL BE DIRECTLY CONNECTED TO THE BUILDING'S STEEL JOIST. IN LOCATIONS WHERE THE BOTTOM OF THE JOIST IS MORE THAN 5' ABOVE THE CEILING, THE SYSTEM INSTALLER SHALL PROVIDE AND INSTALL THREADED ROD AND ALL REQUIRED MATERIALS TO CONNECT THE THREADED ROD TO THE BUILDING STEEL AND THE CABLE SUPPORT SYSTEM TO THE THREADED ROD. CABLE PATHWAY SHALL NOT BE HIGHER THAN 5' ABOVE THE CEILING IN ANY LOCATION.

18. CONTRACTOR SHALL PROVIDE TWO (2) DATA CABLES ROUTED TO THE FIRE ALARM CONTROL PANEL. CONTRACTOR TO COORDINATE WITH THE SYSTEM INSTALLER FOR EXACT LOCATIONS AND TERMINATION INSTRUCTIONS PRIOR TO INSTALLATION.

19. ALL EXPOSED CABLING OR CABLING ROUTING ACROSS NON-ACCESSIBLE CEILINGS SHALL BE INSTALLED IN CONDUIT. CONDUIT SHALL BE PROPERLY SIZED TO MAINTAIN THE 40% FILL

20. 21ALL CONDUIT STUB OUTS AND SLEEVES SHALL HAVE PROTECTIVE BUSHINGS TO PREVENT CABLE DAMAGE. BUSHING TO BE INSTALLED PRIOR TO CABLE INSTALLATION. CUTTING BUSHING AND INSTALLING AFTER CABLE IS INSTALLED WILL NOT BE ACCEPTED CONTRACTOR TO MAINTAIN A 40% MAXIMUM FILL RATION ON ALL SLEEVES INSTALLED.

21. CONTRACTOR SHALL PROVIDE TWO (2) DATA CABLES TO THE ACCESS CONTROL HEAD-END. CONTRACTOR TO COORDINATE WITH THE SYSTEM INSTALLER FOR EXACT LOCATIONS AND TERMINATION INSTRUCTIONS PRIOR TO INSTALLATION.

22. CONTRACTOR TO PROVIDE TWO (2) DATA CABLES TO THE BUILDING AUTOMATION SYSTEM AT EACH BAS HEAD-END LOCATION. CONTRACTOR TO COORDINATE WITH THE SYSTEM INSTALLER FOR EXACT LOCATIONS AND TERMINATION INSTRUCTIONS PRIOR TO

23. CONTRACTOR TO PROVIDE TWO (2) DATA CABLES TO THE AREA OF REFUGE SYSTEM. CONTRACTOR TO COORDINATE WITH THE SYSTEM INSTALLER FOR EXACT LOCATIONS AND

24. CONTRACTOR SHALL PROVIDE (1) DATA CABLE FOR EACH IP CAMERA AND IP SPEAKER ROUTED TO NEAREST IDF. COORDINATE WITH OTHER TRADES.

26. CONTRACTOR SHALL PROVIDE (1) DATA CABLE TO THE INTRUSION DETECTION SYSTEM

SECURITY CONTRACTOR IS RESPONSIBLE FOR CONNECTING SYSTEM TO DISTRICT'S REMOTE

ALL EXPOSED SECURITY SYSTEMS WIRING OR WIRING ROUTING ACROSS NON ACCESSIBLE CEILINGS SHALL BE ROUTED IN CONDUIT. SIZE CONDUIT AS REQUIRED TO ROUTE SYSTEMS

PROVIDE PROTECTIVE COVER FOR ALL DEVICES IN GYMNASIUM AREAS.

SUPPORTED IN PROPER CABLE SUPPORT SYSTEM FOR ENTIRE LENGTH OF RUN. 10. ALL EXTERIOR CAMERAS SHALL BE MOUNTED 12' ABOVE FINISHED GRADE UNLESS

11. ALL CONDUIT STUB OUTS AND SLEEVES SHALL HAVE PROTECTIVE BUSHINGS TO PREVENT CABLE DAMAGE. BUSHING TO BE INSTALLED PRIOR TO CABLE INSTALLATION. CUTTING BUSHING AND INSTALLING AFTER CABLE IS INSTALLED WILL NOT BE ACCEPTED.

12. CONTRACTOR SHALL CONNECT FREEZER/COOLER SENSORS TO INTRUSION DETECTION HEAD-

13. CONTRACTOR SHALL PROVIDE ALL VIDEO SURVEILLANCE CAMERA MOUNTS AND MOUNTING HARDWARE. COORDINATE WITH OWNER FOR FINAL INSTALLATION LOCATION PRIOR TO

ROUGH-IN. PROVIDE CAMERA FIELD OF VIEW ADJUSTMENTS. COORDINATE WITH OWNER. 14. CONTRACTOR SHALL INTEGRATE THE INSTRUSION DETECTION SYSTEM WITH THE ACCESS CONTROL SYSTEM TO PROVIDE THE FUNCTIONALITY OF THE BURGLAR ALARM BEING DISARMED ON AN AUTHORIZED CARD SWIPE AT ANY CARD READER.

15. CONTRACTOR SHALL INTEGRATE THE ACCESS CONTROL, INTRUSION DETECTION AND VIDEO SURVEILLANCE SYSTEMS. PROVIDE ALL REQUIRED MODULES, CABLING AND LICENSES.

16. PROVIDE MOUNTING SUPPORT FROM GRID OR BUILDING STRUCTURE FOR ALL DEVICES INSTALLED IN LAY-IN CEILING TILE.

17. ALL 120V POWER FOR THE SYSTEMS SHALL BE INSTALLED WITHIN THE ENCLOSURE OR INSTALLED IN CONDUIT CONNECTED TO THE ENCLOSURE SO THAT NO CABLING IS EXPOSED. MC CABLE, ROMEX, SO CABLES OR OTHER METHODS ARE NOT ACCEPTABLE.

TECHNOLOGY LEGEND DESCRIPTION SYMBOL INDICATES THE LOCATION OF A NEW TECHNOLOGY OUTLET. CONTRACTOR TO PROVIDE FACEPLATE WITH A MINIMUM OF 4-PORTS AT EACH LOCATION UNLESS OTHERWISE NOTED. PROVIDE BLANK COVERS ON UNUSED PORTS. ELECTRICAL CONTRACTOR TO PROVIDE A DOUBLE GANG BACK BOX WITH A SINGLE GANG REDUCER RING AND A 1" CONDUIT FROM THE BOX TO THE NEAREST ACCESSIBLE CEILING. D# INDICATES NUMBER OF DATA CABLES INSTALLED AT THIS INDICATES THE LOCATION OF A CEILING MOUNTED OUTLET. CONTRACTOR SHALL MOUNT THIS OUTLET AT +12" ABOVE THE CEILING AND COORDINATE ALL FINAL LOCATIONS WITH OTHER TRADES ON THE PROJECT TO VERIFY THAT THE LOCATION OF THE OUTLET MAINTAINS 12" OF CLEARANCE FROM THE FRONT OF THE FACEPLATE FOR OWNER ACCESS. ROUTE (1) 1" CONDUIT FROM THE BUILDING STRUCTURE TO A SINGLE GANG BACK BOX MOUNTED AT 5' OR LESS ABOVE THE FINISHED CEILING. SECURE CONDUIT AND BACK BOX TO INSURE MINIMAL SWAY MOVEMENT. D# INDICATES NUMBER OF DATA CABLES INSTALLED AT THIS LOCATION. INDICATES THE LOCATION OF A FLOOR MOUNTED OUTLET. CONTRACTOR TO PROVIDE AND INSTALL (2) 1-1/2" CONDUITS FROM BOX TO NEAREST ACCESSIBLE CEILING. D# INDICATES NUMBER OF DATA CABLES INSTALLED AT THIS LOCATION. INDICATES THE LOCATION OF A TEACHER'S PRESENTATION STATION, PROVIDE A RACO 260 BOX WITH 2 GANG REDUCER RING @ 18" AFF WITH (1) 2" CONDUIT STUBBED OUT ABOVE CEILING, 'PS' CABLING SHALL BE CONNECTED TO ASSOCIATED 'CMP', 'WMP', OR INDICATES WALL MOUNTED LCD DISPLAY. CONTRACTOR TO PROVIDE AND INSTALL A RACO 260 BOX WITH 2 GANG MUD RING AT 60" A.F.F. WITH (1) 2" CONDUITS STUBBED OUT ABOVE NEAREST ACCESSIBLE CEILING AND (1) DATA CABLE ROUTED TO NEAREST IDF. PROVIDE ALL REQUIRED TERMINATION HARDWARE. ELECTRICAL CONTRACTOR SHALL PROVIDE A DEDICATED CIRCUIT.

INDICATES THE LOCATION OF A WIRELESS MICROPHONE ANTENNA. PROVIDE WIREGUARD ON ALL DEVICES INSTALLED IN GYMNASIUMS. ELECTRICAL CONTRACTOR SHALL PROVIDE 2 GANG EXTRA DEEP BOX, FLUSH MOUNT AT 12' A.F.F., UNLESS OTHERWISE NOTED. CONNECT (1) 1" CONDUIT ROUTED TO ASSOCIATED SOUND RACK. INDICATES THE LOCATION OF ASSISTED LISTENING ANTENNA. PROVIDE WIREGUARD ON ALL DEVICES INSTALLED IN GYMNASIUMS.

TERMINATION INSTRUCTIONS PRIOR TO INSTALLATION.

25. CONTRACTOR SHALL PROVIDE (2) DATA CABLES ROUTED TO THE ELEVATOR FOR THE FIRE-FIGHTER TELEPHONE.

SECURITY GENERAL NOTES

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. SECURITY CONTRACTOR SHALL COORDINATE ALL 120V POWER REQUIREMENTS AND LOCATIONS WITH ELECTRICAL CONTRACTOR FOR ALL EQUIPMENT AND REMOTE POWER SUPPLIES (TYPICAL)

A DOOR CONTACT POSITION SENSOR IS REQUIRED AT ALL ROOF HATCHES (TYPICAL). ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY CONDUIT, SLEEVES, AND PROTECTIVE BUSHINGS REQUIRED TO INSTALL COMPLETE SECURITY SYSTEM. PROVIDE ALL CONDUITS REQUIRED AT EXTERIOR DOORS ANNOTATED WITH DOOR CONTACTS OR CARD READERS TO ALLOW FOR INSTALLATION OF DOOR CONTACT POSITION SENSORS AND CARD

MONITORING SERVICE.

WITH 40% CABLE FILL RATIO. MINIMUM CONDUIT SIZE SHALL BE 3/4"

ENSURE ALL EXTERIOR WALL PENETRATIONS ARE PROPERLY SEALED TO PREVENT ELEMENTS

8. NO CONDUITS OR SEAL-TITE SHALL BE INSTALLED ON THE EXTERIOR OF THE BUILDING. 9. ALL LOW VOLTAGE CABLING SHALL BE INDIVIDUALLY ROUTED TO HEAD END POINT AND

END FOR EVENT DETECTION. PROVIDE ALL REQUIRED MODULES TO INTERFACE SENSORS.

ELECTRICAL CONTRACTOR SHALL PROVIDE 1 GANG BOX, FLUSH MOUNT AT 12' A.F.F. UNLESS OTHERWISE NOTED. CONNECT (1) 1" CONDUIT ROUTED TO ASSOCIATED SOUND RACK. INDICATES WIRELESS ACCESS POINT CONNECTION. CONTRACTOR SHALL PROVIDE AND INSTALL (1) DATA CABLES ROUTED TO NEAREST IDF. PROVIDE BOX AND CONDUIT AS NOTED FOR CEILING MOUNTED OUTLETS. PROVIDE (1) 15' PLENUM PATCH CABLE FOR EACH LOCATION INSTALLED. PROVIDE 10' SERVICE LOOP UPSTREAM OF TERMINATION POINT. WALL MOUNTED DEVICES SHALL BE INSTALLED AT 10' A.F.F. INDICATES THE LOCATION OF A KRONOS CLOCK, PROVIDE A FLUSH MOUNT SINGLE GANG BOX AT 54" A.F.F. WITH (1) 1" CONDUIT STUBBED OUT ABOVE NEAREST ACCESSIBLE CEILING. PROVIDE (1) DATA CABLE ROUTED TO NEAREST IDF 'MI' INDICATES THE LOCATION OF MICROPHONE INPUT. INDICATES THE LOCATION OF AUXILIARY AUDIO INPUT INDICATES THE LOCATION OF A VIDEO PROJECTOR. 'W' INDICATES WALL MOUNT. 'C' INDICATES CEILING MOUNT. COORDINATE EXACT HEIGHT WITH ARCHITECT PRIOR TO ROUGH-IN. PROVIDE AND INSTALL A RACO 260 BOX WITH 2 GANG MUD RING WITH (1) 2" CONDUIT STUBBED OUT ABOVE NEAREST ACCESSIBLE CEILING AND (1) DATA CABLE ROUTED TO NEAREST IDF. PROVIDE 10' SERVICE LOOP AT PROJECTOR INDICATES THE LOCATION OF SCOREBOARD CONTROL INTERFACE PLATE. INSTALL 1 GANG BOX AT 18" A.F.F. WITH (1) 1" CONDUIT CONNECTED TO BOTH 'SB2' BOXES ELECTRICAL CONTRACTOR SHALL INSTALL (1) 20A CIRCUIT AT THIS LOCATION FOR SCORER'S TABLE INDICATES THE LOCATION OF A SCOREBOARD. INSTALL SINGLE GANG BOX AT APPROXIMATELY 12' A.F.F. WITH (1) 1" CONDUIT CONNECTED TO THE ASSOCIATED 'SB1' BOX. VERIFY EXACT LOCATION WITH 'SB2' ARCHITECT PRIOR TO ROUGH-IN. ELECTRICAL CONTRACTOR SHALL PROVIDE (1) 20A CIRCUIT AT THIS LOCATION FOR SCOREBOARD POWER. INDICATES THE LOCATION OF AN IP SECURITY CAMERA. FOR WALL MOUNT AND EXTERIOR CAMERAS, ELECTRICAL CONTRACTOR SHALL PROVIDE A SINGLE GANG BOX, FLUSH MOUNT AT 12' A.F.F. WITH 1" CONDUIT STUBBED OUT ABOVE NEAREST ACCESSIBLE CEILING. TECHNOLOGY CONTRACTOR SHALL PROVIDE (1) DATA CABLE ROUTED TO NEAREST IDF. PROVIDE A 10' SERVICE LOOP AT EACH END POINT. FOR EXTERIOR CAMERAS, PROVIDE AN RJ45 BISCUIT WITH A TERMINATED WHIP ROUTED TO CAMERA LOCATION. PROVIDE ALL REQUIRED CONNECTORS AND DEVICES TO PROVIDE FULL FUNCTIONALITY OF CAMERA. PROPERLY SEAL BUILDING PENETRATIONS TO PREVENT EXTERIOR ELEMENTS FROM ENTERING BUILDING. SURFACE MOUNTED CONDUITS ARE NOT PERMITTED. INDICATES INTERCOM SPEAKER, FLUSH MOUNTED IN CEILING. VERIFY WITH INTERCOM CONTRACTOR WHETHER SPEAKERS ARE IP SPEAKERS. IF SO, PROVIDE (1) DATA CABLE ROUTED TO NEAREST IDF EXCEPT AS NOTED: ALL CORRIDOR, PUBLIC SPACE AND EXTERIOR SPEAKERS ARE CONVENTIONAL 25VOLT AND DO NOT REQUIRE A DATA DROP. COORDINATE WITH INTERCOM CONTRACTOR PRIOR TO CABLING. INDICATES WALL MOUNTED INTERCOM SPEAKER. VERIFY WITH INTERCOM CONTRACTOR WHETHER SPEAKERS ARE IP SPEAKERS. IF SO. PROVIDE (1) DATA CABLE ROUTED TO NEAREST IDF EXCEPT AS NOTED: ALL CORRIDOR, PUBLIC SPACE AND EXTERIOR SPEAKERS ARE CONVENTIONAL 25VOLT AND DO NOT REQUIRE A DATA DROP. COORDINATE WITH INTERCOM CONTRACTOR PRIOR TO CABLING INDICATES WALL MOUNTED CLOCK. VE RIFY WITH INTERCOM CONTRACTOR WHETHER CLOCKS ARE IP. IF SO, PROVIDE (1) DATA CABLE ROUTED TO NEAREST IDF. INCLUDES DOUBLE FACE CLOCKS. INDICATES THE APPROXIMATE LOCATION OF A CEILING ENCLOSURE. REFER TO SPECIFICATIONS FOR THE ENCLOSURE MODEL NUMBER AND DEVICES TO BE HOUSED INSIDE THE ENCLOSURE. ELECTRICAL CONTRACTOR SHALL PROVIDE (1) 120V / 20A DEDICATED CIRCUIT. INDICATES WALL MOUNTED LOCAL SOUND SPEAKER. PROVIDE A 2 GANG DEEP BOX WITH 1 GANG REDUCER RING @ 12 FT. AFF WITH (1) 3/4" CONDUIT ROUTED AND CONNECTED TO THE ASSOCIATED LOCAL SOUND RACK. INDICATES CEILING MOUNTED MICROPHONE. PROVIDE A 2 GANG DEEP BOX WITH 1 GANG REDUCER RING FLUSH IN CEILING WITH (1) 3/4" CONDUIT ROUTED AND CONNECTED TO THE ASSOCIATED LOCAL SOUND RACK INDICATES CEILING MOUNTED LOCAL SOUND SPEAKER. PROVIDE A 2 GANG DEEP BOX WITH 1 GANG REDUCER RING INSTALLED @ 12" ABOVE CEILING WITH (1) 3/4" CONDUIT ROUTED AND CONNECTED TO THE ASSOCIATED LOCAL SOUND RACK INDICATES CEILING MOUNTED LOCAL SOUND SUBWOOFER SPEAKER. PROVIDE A 2 GANG DEEP BOX WITH 1 GANG REDUCER RING INSTALLED @ 12" ABOVE CEILING WITH (1) 3/4" CONDUIT ROUTED AND CONNECTED TO THE ASSOCIATED LOCAL SOUND RACK. 1. EVERY SYMBOL SHOWN ON LEGEND MAY NOT APPEAR ON DRAWINGS. REFER TO GENERAL ELECTRICAL NOTES FOR WALL-MOUNTED DEVICE MOUNTING HEIGHTS. 2. REFERENCE SPECIFICATIONS FOR MATERIALS AND METHODS.

3. COMPLETE INSTALLATION OF ALL PRODUCTS SHALL BE IN COMPLIANCE WITH ALL CODES, INDUSTRY STANDARDS, COMMON PRACTICES AND MANUFACTURER'S INSTRUCTIONS.

4. ALL CONDUIT STUB-OUTS SHALL BE EQUIPPED WITH A PLASTIC PROTECTIVE BUSHING TO PREVENT CABLE DAMAGE.

ISSUE FOR PERMIT BUILDING NUMBER **TECHNOLOGY** SYSTEM NOTES AND

ST. PHILIP'S COLLEGE

KEY PLAN

2024/05/10

DRAWING HISTORY

NORTH: PLAN TRUE

ONALD C. RICHARDS

05/10/2024

LEAF ENGINEERS

F-18672

Alamo Colleges

Description

PROJECT NUMBER

230462

Date

601 N.W. Loop 410, Suite 400

San Antonio, TX 78216

210-829-0123 P

TX Firm: BR 1608

210-829-0578 I

ASSOCIATE ARCHITECT
B&A ARCHITECTS

STRUCTURAL LUNDY & FRANKE ENGINEERING

BEAM PROFESSIONALS

LEGENDS

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

TECHNOLOGY KEYNOTES

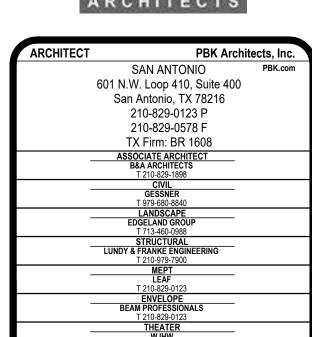
- TS1 INDICATES THE APPROXIMATE LOCATION OF THE NEW BUILDING IDF. CONDUITS SHALL BE STUB EVENTLY AT +8 A.F.F TO ENTER THE NEW MDF/IDF
- TS3 CONTRACTOR TO INSTALL TWO (2) FOUR INCH (4") CONDUIT WITH A PULLING LINE FROM THIS MANHOLE ALL THE WAY TO THE NEW IDF ROUTED AT 4' B.F.G. PROVIDE TWO (2) 3-CELL 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.

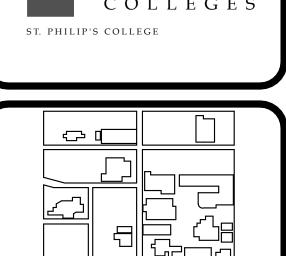
- TS5 INDICATES THE APPROXIMATE LOCATION OF AN EXISTING CONDUIT PATHWAY TO BE REMOVED. CONTRACTOR SHALL PULL BACK EXISTING FIBER FROM THE EXISTING MANHOLE ALL THE WAY BACK TO THE PREVIOUS BOX. FIBER TO BE RE-USED IF POSSIBLE, CONTRACTOR WILL RE-ROUTE THE EXISTING FIBER AND FUSE SPLICE AT THE SAME BOX 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. TS8 INDICATES THE APPROXIMATE LOCATION OF THE EXISTING CAMPUS MDF. CONDUITS SHALL BE
- STUBBED EVENTLY AT +8 A.F.F TO ENTER THE MDF/IDF. TS9 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.
- TS10 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 CABLING ALL THE WAY TO THE CAMPUS MDF PATHWAY.
- TS11 CONTRACTOR TO REMOVE ALL NON-WORKING LOW VOLTAGE CABLE ALL THE WAY TO THE CAMPUS MDF DURING THE NEW FIBER PULLING FOR THIS PROJECT.

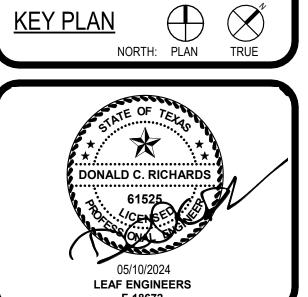












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