

Alamo Colleges

# WFAC Black Box Addition PKG 1

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

## ISSUE FOR CONSTRUCTION

2024/06/14



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ARCHITECT  
**PBK ARCHITECTS, INC**  
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San Antonio, TX 78209  
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**GESSNER**  
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LANDSCAPE ARCHITECT  
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MEP ENGINEER  
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T 210-829-0123

THEATER CONSULTANT  
**WJHW**  
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T 210-561-9800

ENVELOPE CONSULTANT  
**BEAM PROFESSIONALS**  
601N.W.LOOP 410, Suite 400  
San Antonio, TX 78216  
T 210-829-0123

WFAC Black Box Addition PKG 1

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Table with columns SHEET NUMBER and SHEET NAME. Lists architectural, mechanical, and plumbing sheets including general information, site plans, and details.

ADD ALTERNATES

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

ABBREVIATIONS AND LEGEND KEYS

Table of abbreviations and legend keys. Includes sections for 'REFER TO SCHEDULES AND LEGENDS FOR ADDITIONAL ABBREVIATIONS', 'PROJECT GRAPHIC REFERENCES', and 'CONSTRUCTION TYPE SYMBOLS'. Lists various materials and construction types with their corresponding symbols.

GENERAL NOTES

- A. THE CONTRACT DOCUMENTS ARE TO INCLUDE AIA DOCUMENT A201 "GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION". CLIENT SHALL BE DESIGNATED AS "THE OWNER".
B. THE WORK SHALL BE DONE IN ACCORDANCE WITH THE RULES AND REGULATIONS OF ALL APPLICABLE SAFETY AND BUILDING CODES.
C. CONTRACTOR SHALL REVIEW AND VERIFY EXISTING CONDITIONS AS PROVIDED IN THE CONSTRUCTION DOCUMENTS.
D. CONTRACTOR SHALL BE RESPONSIBLE FOR AND PROVIDE PROTECTION OF ANY EXISTING FINISHES, MATERIALS, AND EQUIPMENT TO REMAIN.
E. ALL MATERIALS AND SYSTEMS SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
F. ONLY NEW MATERIALS AND EQUIPMENT OF RECENT MANUFACTURE, OF STANDARD QUALITY, AND FREE FROM DEFECTS, WILL BE PERMITTED IN THE WORK.
G. DO NOT SCALE DRAWINGS. STATED & WRITTEN DIMENSIONS GOVERN.
H. CONTRACTOR SHALL VERIFY THAT NO CONFLICTS EXIST BETWEEN THE LOCATIONS OF EXISTING AND PROPOSED NEW MECHANICAL, ELECTRICAL, PLUMBING, DATA, AND SPRINKLER EQUIPMENT.
I. CONTRACTOR SHALL PROVIDE THE ARCHITECT WITH SHOP DRAWINGS FOR REVIEW AND APPROVAL FOR ALL, BUT NOT LIMITED TO, THE FOLLOWING: SHOP-FABRICATED MILLWORK, CARPET LAYOUT, FLOORING, LIGHT FIXTURES, DOORS, MISC. STEEL, METAL FABRICATION, GLASS/GLAZING, SPRINKLER LAYOUTS, HARDWARE.
J. CONTRACTOR SHALL REVIEW AND COORDINATE THE SIZE AND LOCATION OF ALL SLAB OPENINGS WITH ALL RELATED DISCIPLINES.
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, ELECTRICAL EQUIPMENT, FANS, SUPPLEMENTARY HEATING AND COOLING ELEMENTS, ALL HARDWARE AND SECURITY 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 OWNER.
M. CONTRACTOR SHALL REVIEW AND COORDINATE THE SIZE AND LOCATION OF ALL SLAB OPENINGS WITH ALL RELATED DISCIPLINES.
N. PATCH, REPAIR, AND INSTALL ALL FIREPROOFINGS AS REQUIRED BY CODE. FIREPROOF ALL NEW PENETRATIONS AS REQUIRED FOR APPROVAL BY THE AUTHORITY HAVING JURISDICTION.
O. CONTRACTOR SHALL CONTINUOUSLY CHECK ARCHITECTURAL AND STRUCTURAL CLEARANCES FOR ACCESSIBILITY OF EQUIPMENT AND MECHANICAL AND ELECTRICAL SYSTEMS.
P. FINISHED WORK SHALL BE FIRM, WELL-ANCHORED, IN TRUE ALIGNMENT, PLUMB, LEVEL, WITH SMOOTH, CLEAN, UNIFORM APPEARANCE WITHOUT WAVES, DISTORTIONS, HOLES, MARKS, CRACKS, STAINS, OR DISCOLORATION.
Q. 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.
R. ALL DEBRIS SHALL BE REMOVED FROM THE SITE ON A DAILY BASIS, OR AS DIRECTED BY THE AUTHORITY HAVING JURISDICTION.
S. ATTACHMENTS, CONNECTIONS OR FASTENERS OF ANY NATURE ARE TO PROPERLY AND PERMANENTLY BE SECURED IN CONFORMANCE WITH INDUSTRY BEST PRACTICES.
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.
V. CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY ACCESS PANELS WHICH MAY BE REQUIRED PRIOR TO PROCEEDING WITH THE WORK.
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.
X. ALL DEBRIS SHALL BE REMOVED FROM THE SITE ON A DAILY BASIS, OR AS DIRECTED BY THE AUTHORITY HAVING JURISDICTION.
Y. ALL ABANDONED AND MISCELLANEOUS NAILS, HANGERS, STAPLES, WIRES, CONDUITS AND DEBRIS SHALL BE REMOVED FROM EXPOSED AREAS OF THE FLOORS, WALLS, AND CEILINGS.
Z. CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY ACCESS PANELS WHICH MAY BE REQUIRED PRIOR TO PROCEEDING WITH THE WORK.



Table listing project team members and their roles: ARCHITECT (SAN ANTONIO), PBK Architects, Inc., SAN ANTONIO, 601 N.W. Loop 410, Suite 400, San Antonio, TX 78216.

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

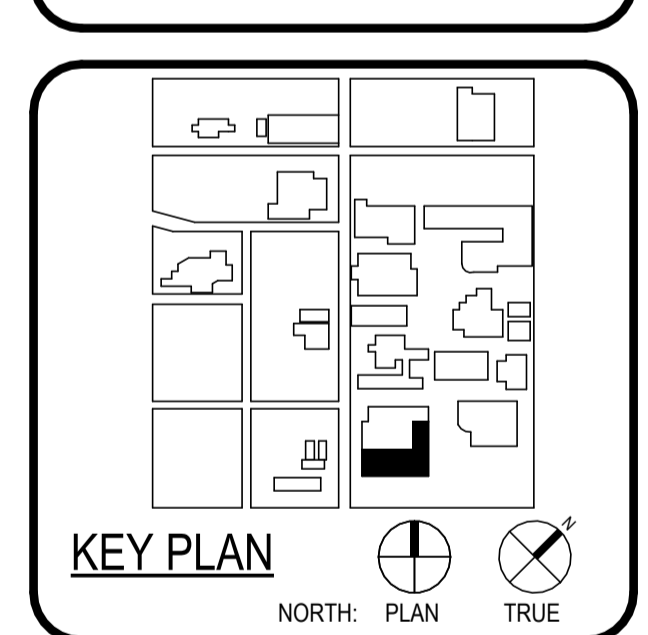


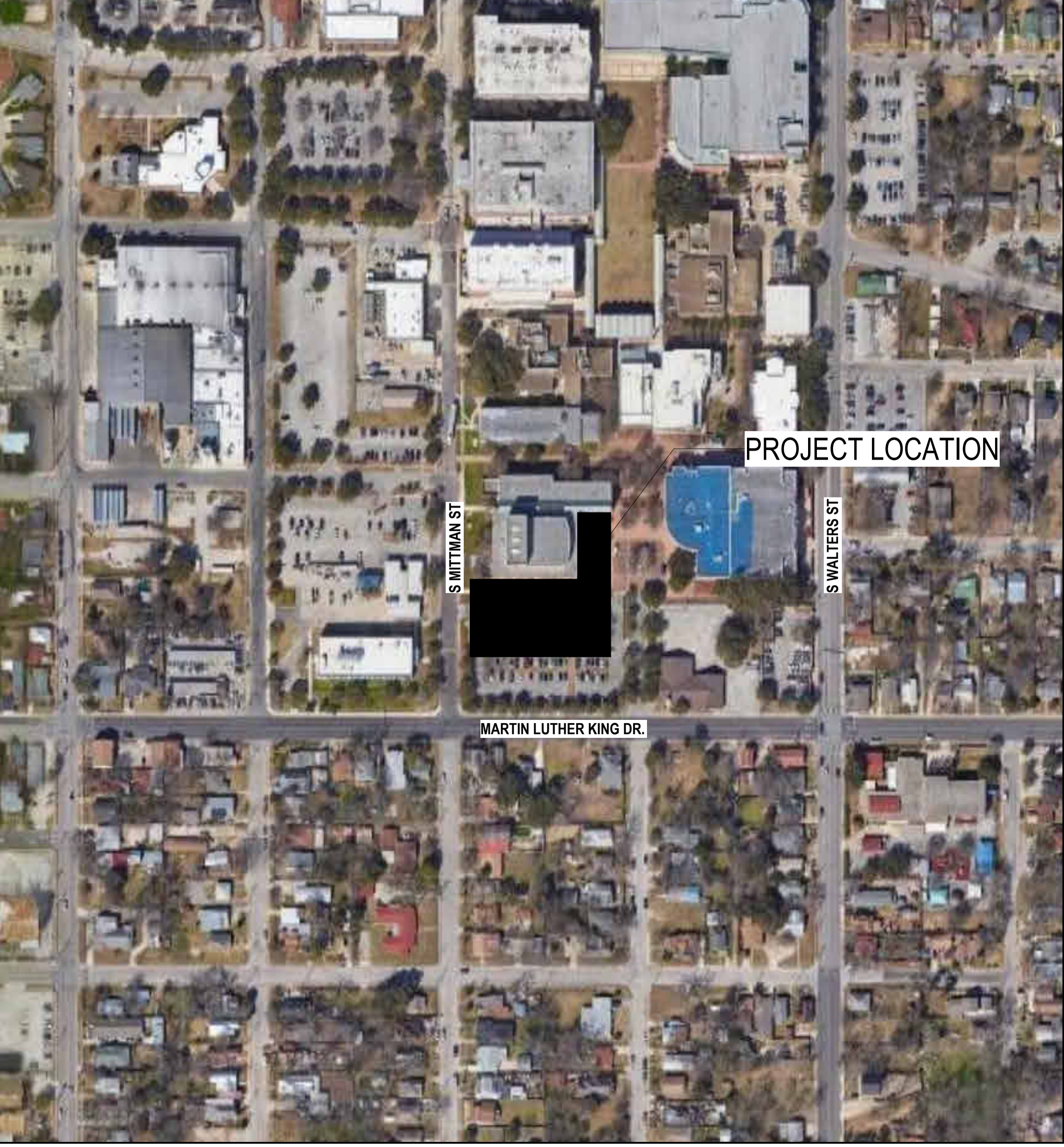
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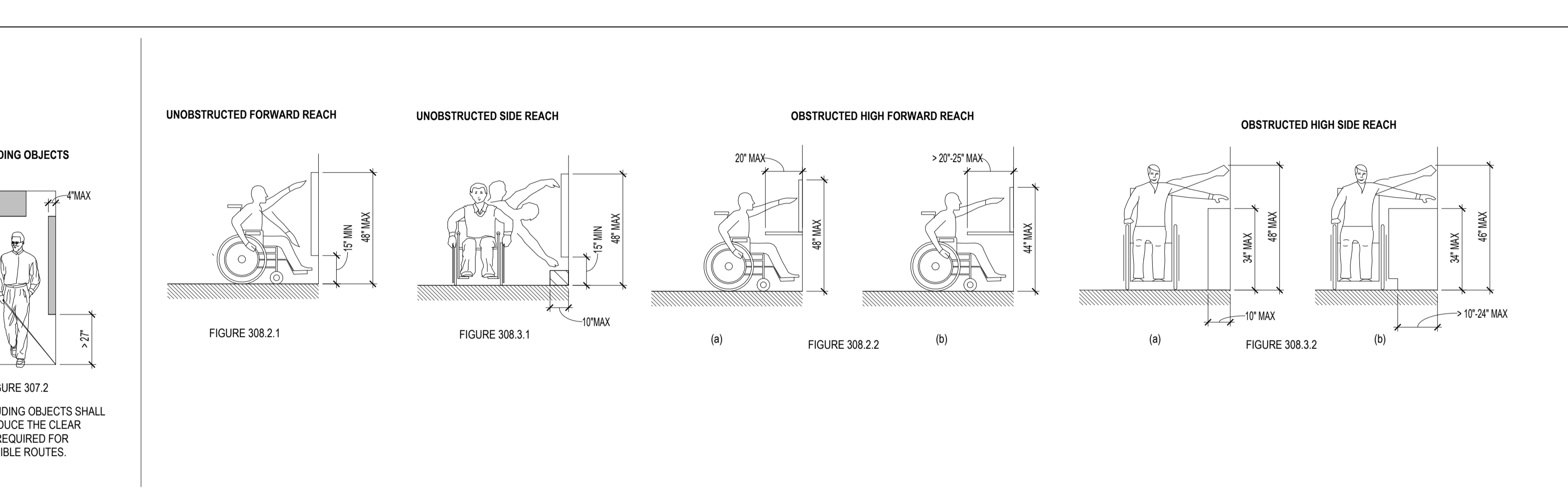
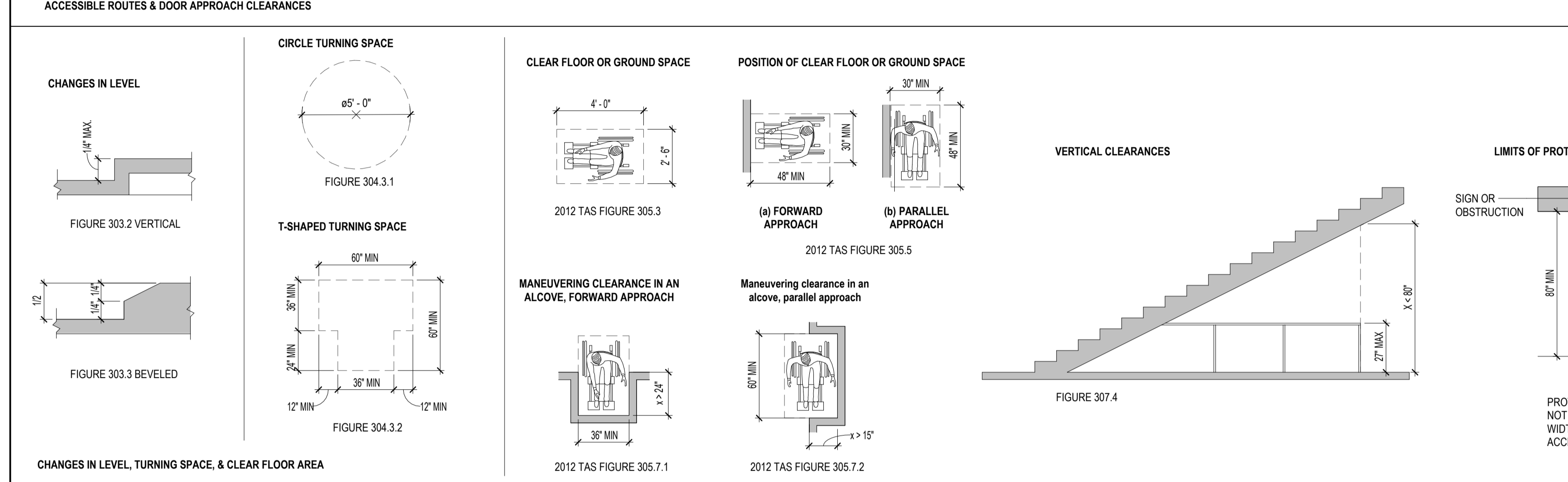
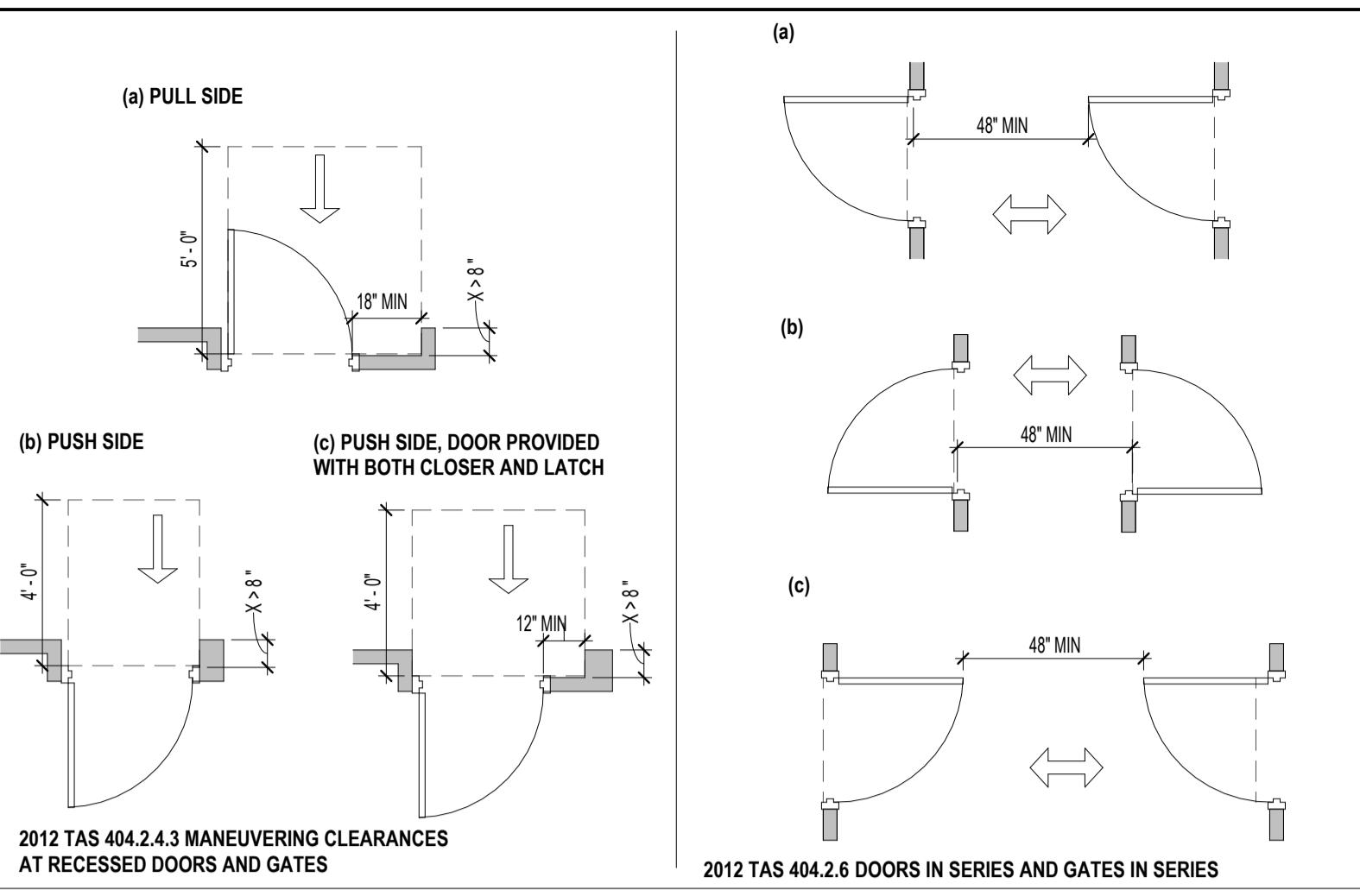
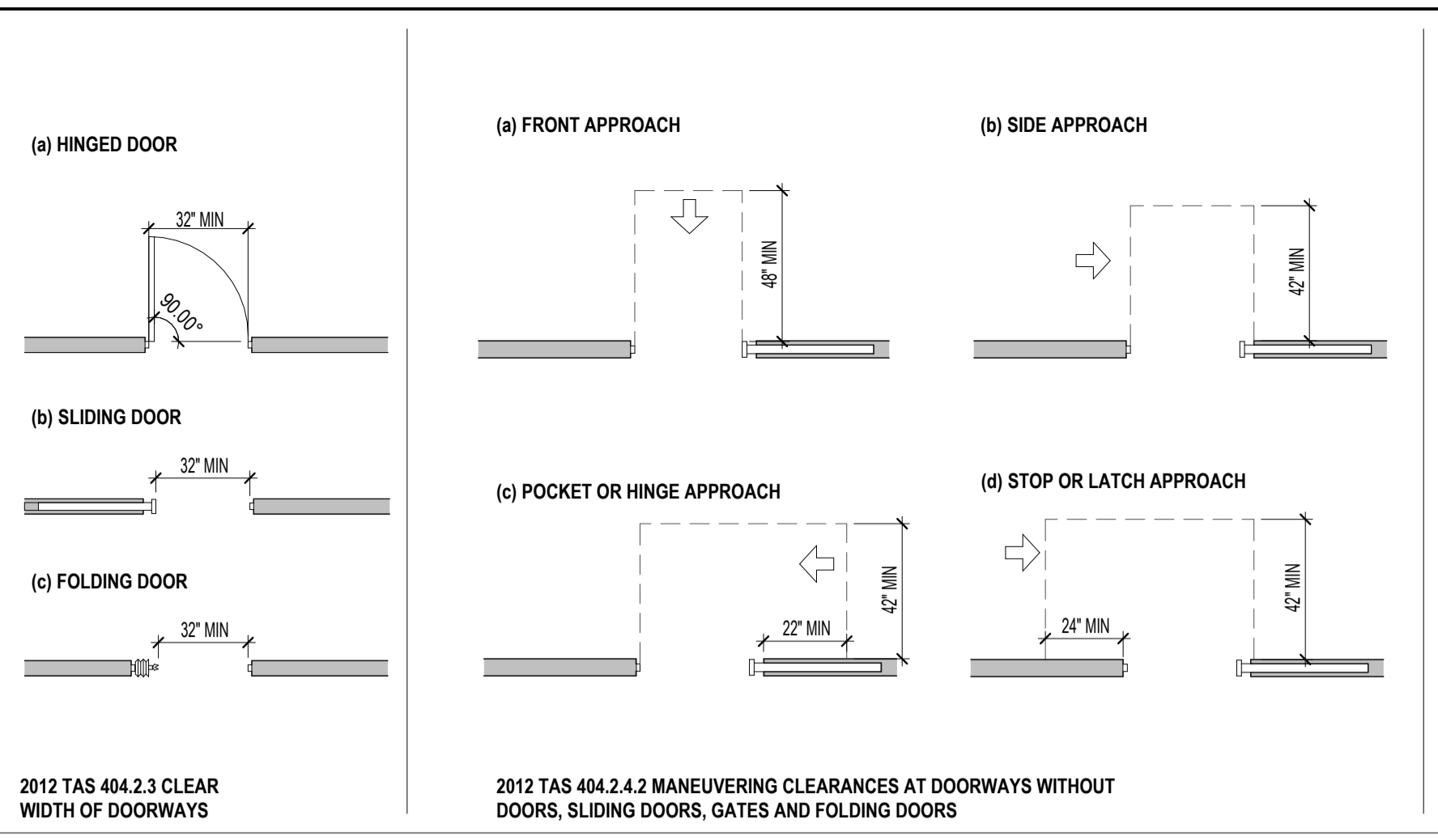
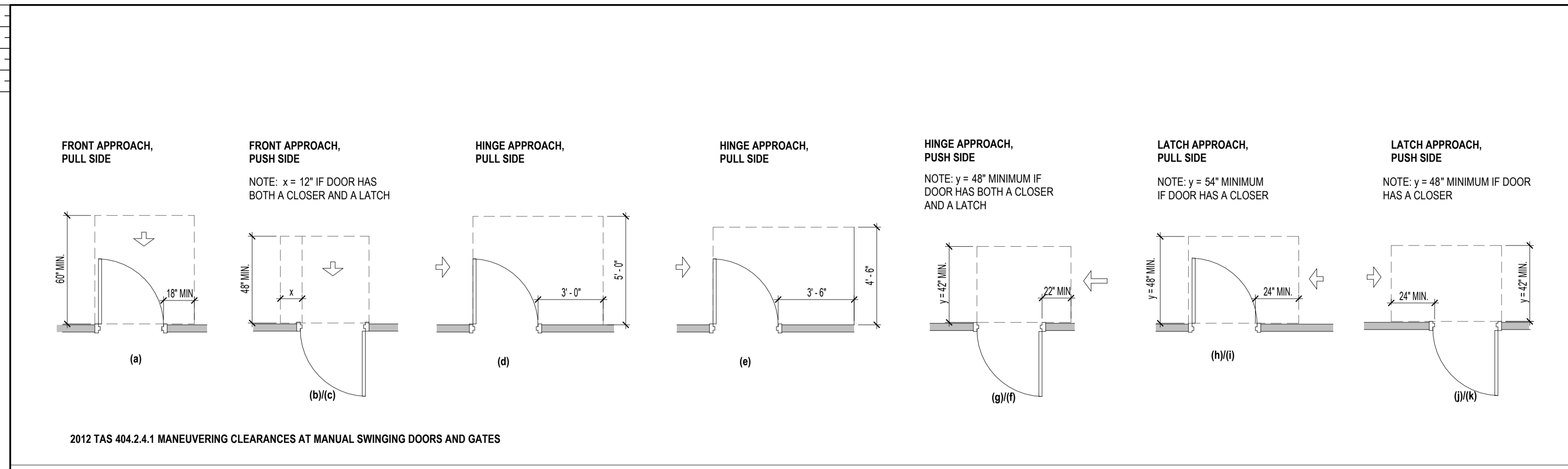
ISSUE FOR CONSTRUCTION
BUILDING NUMBER 1

GENERAL PROJECT INFORMATION

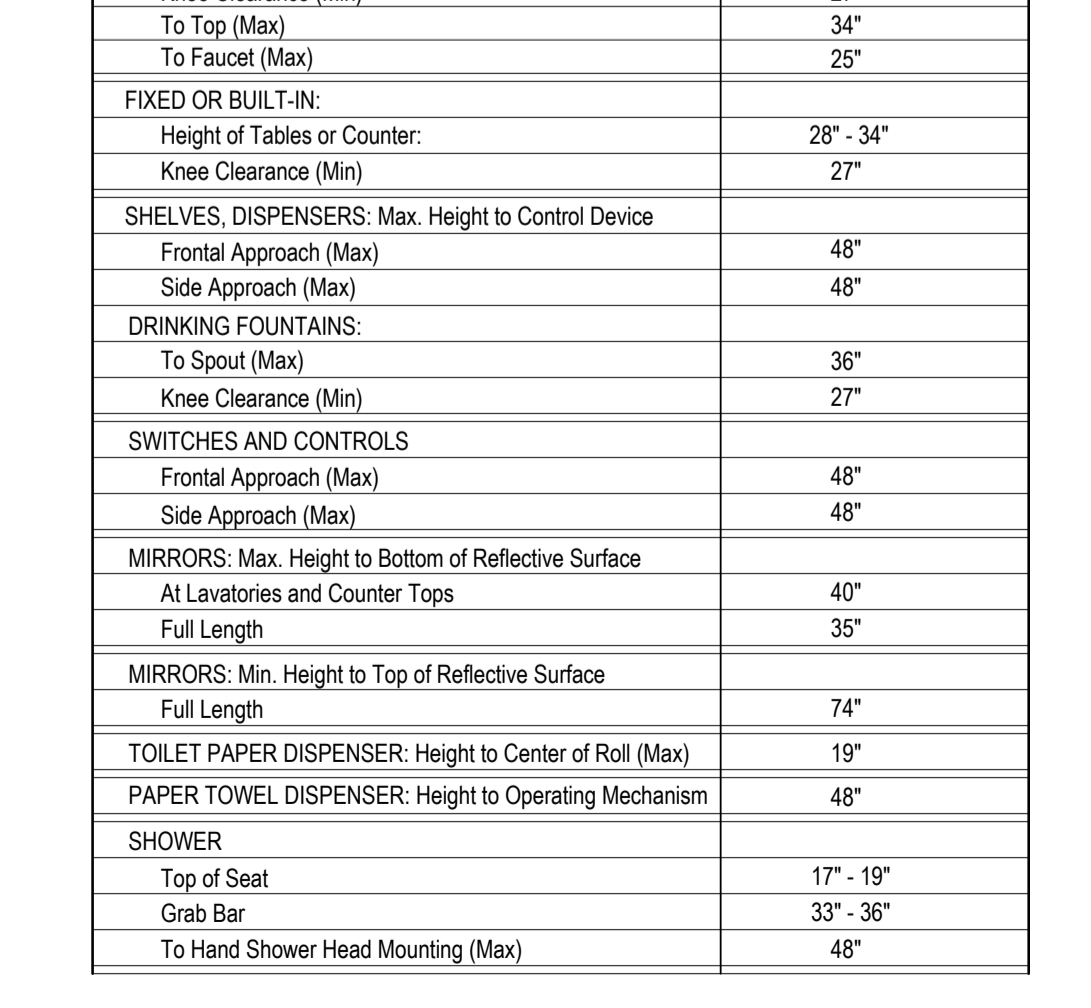
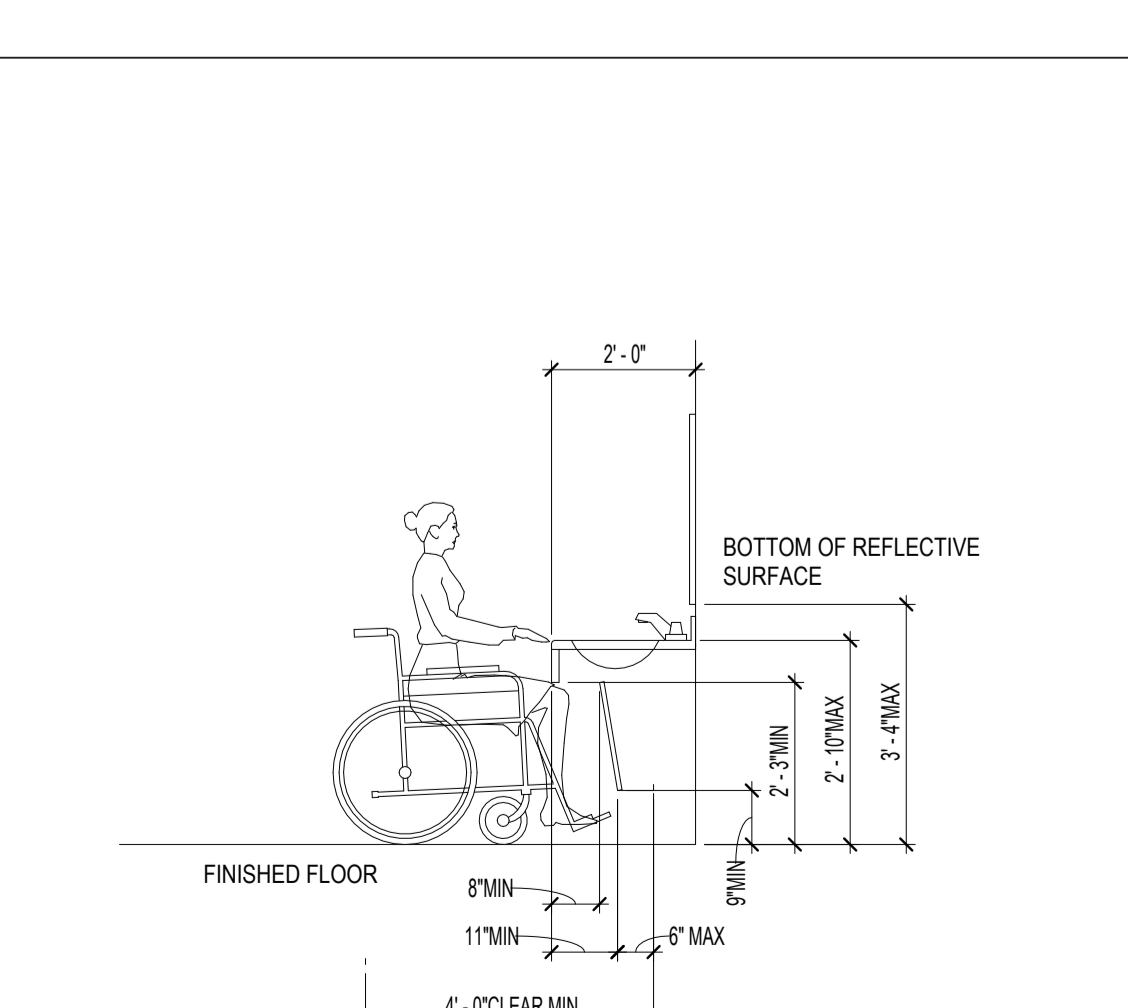
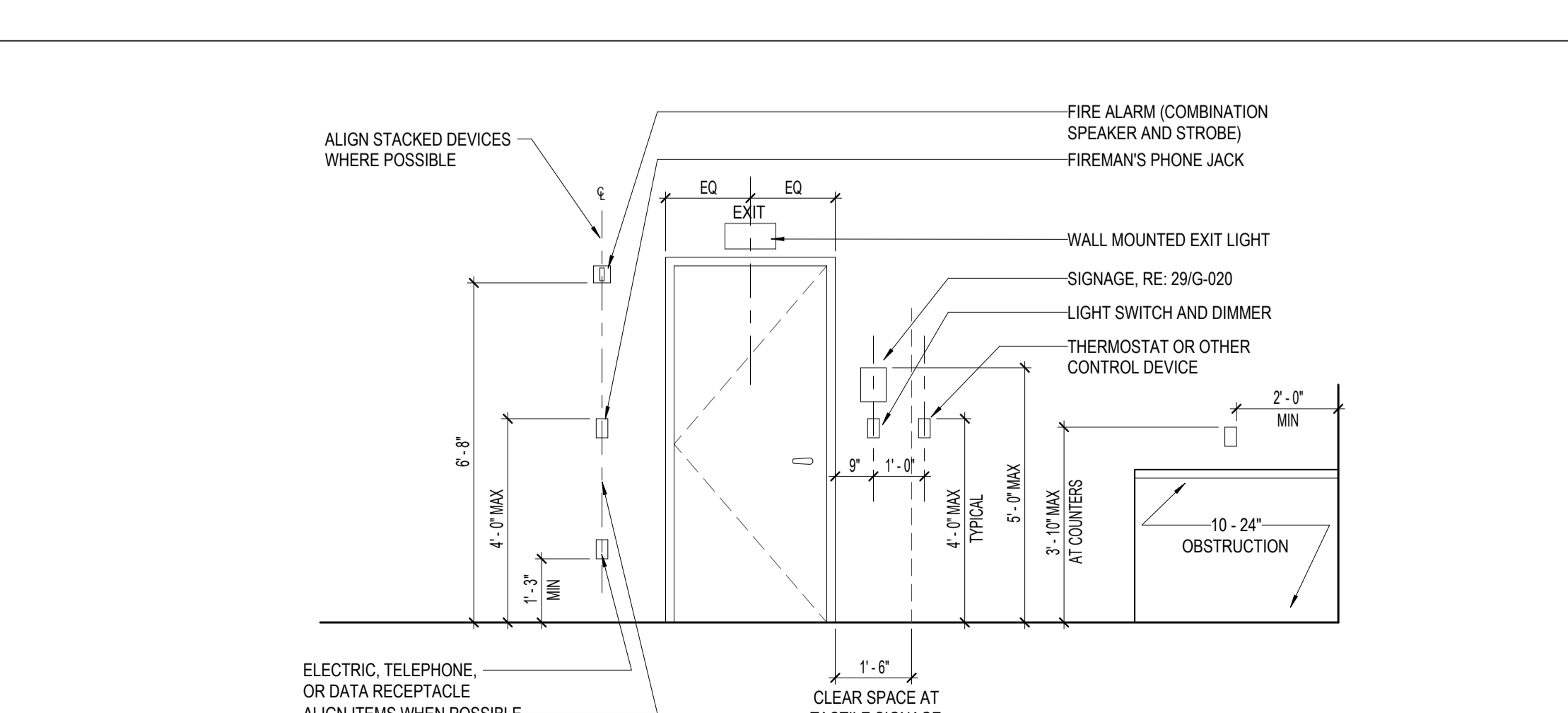
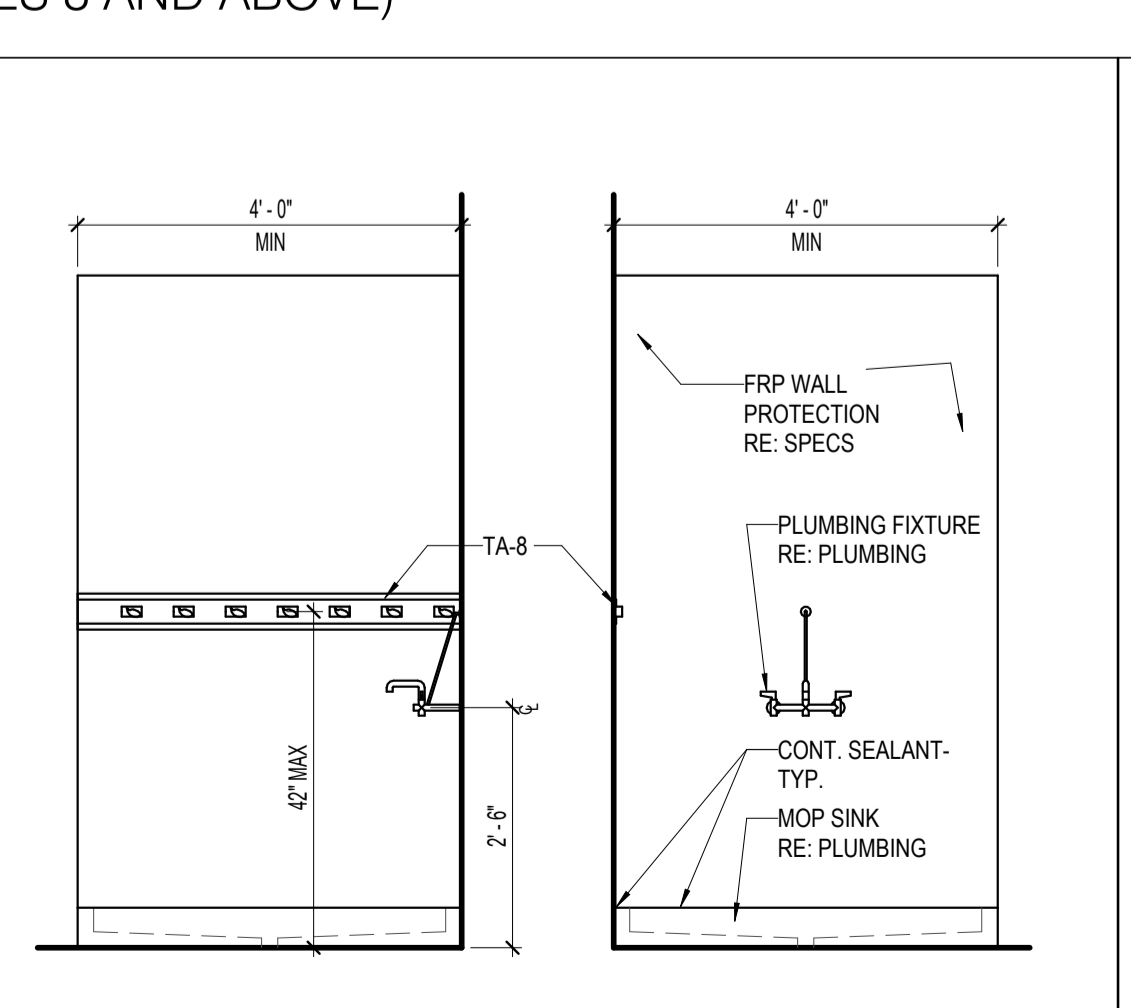
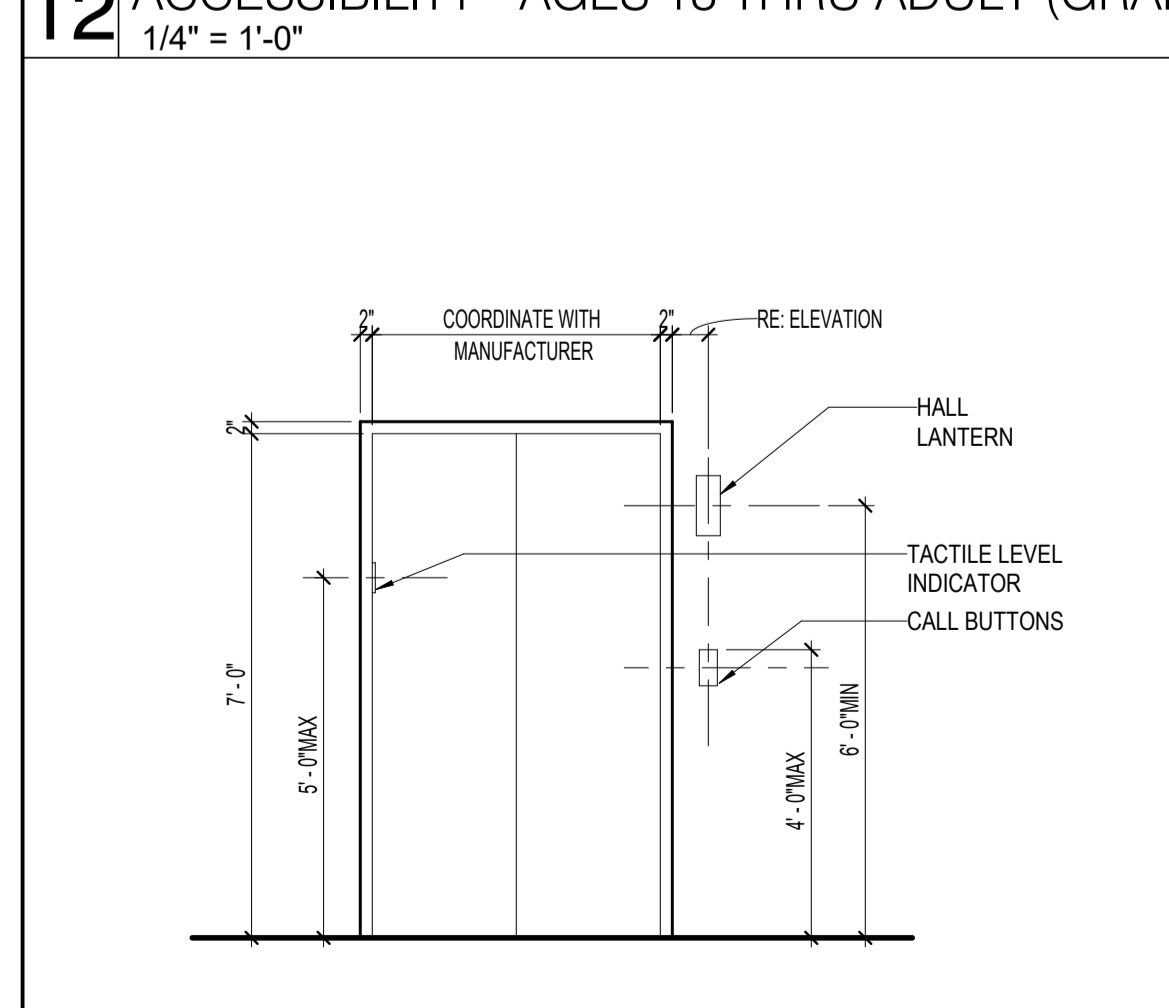
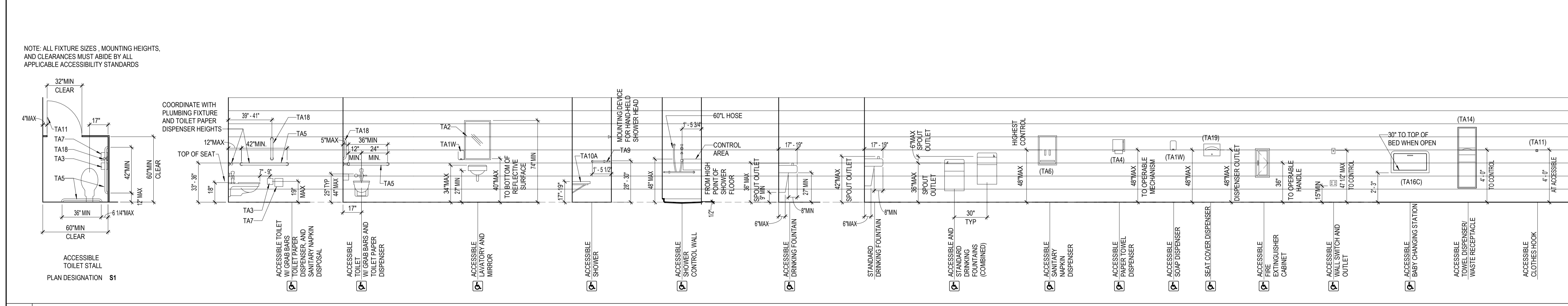
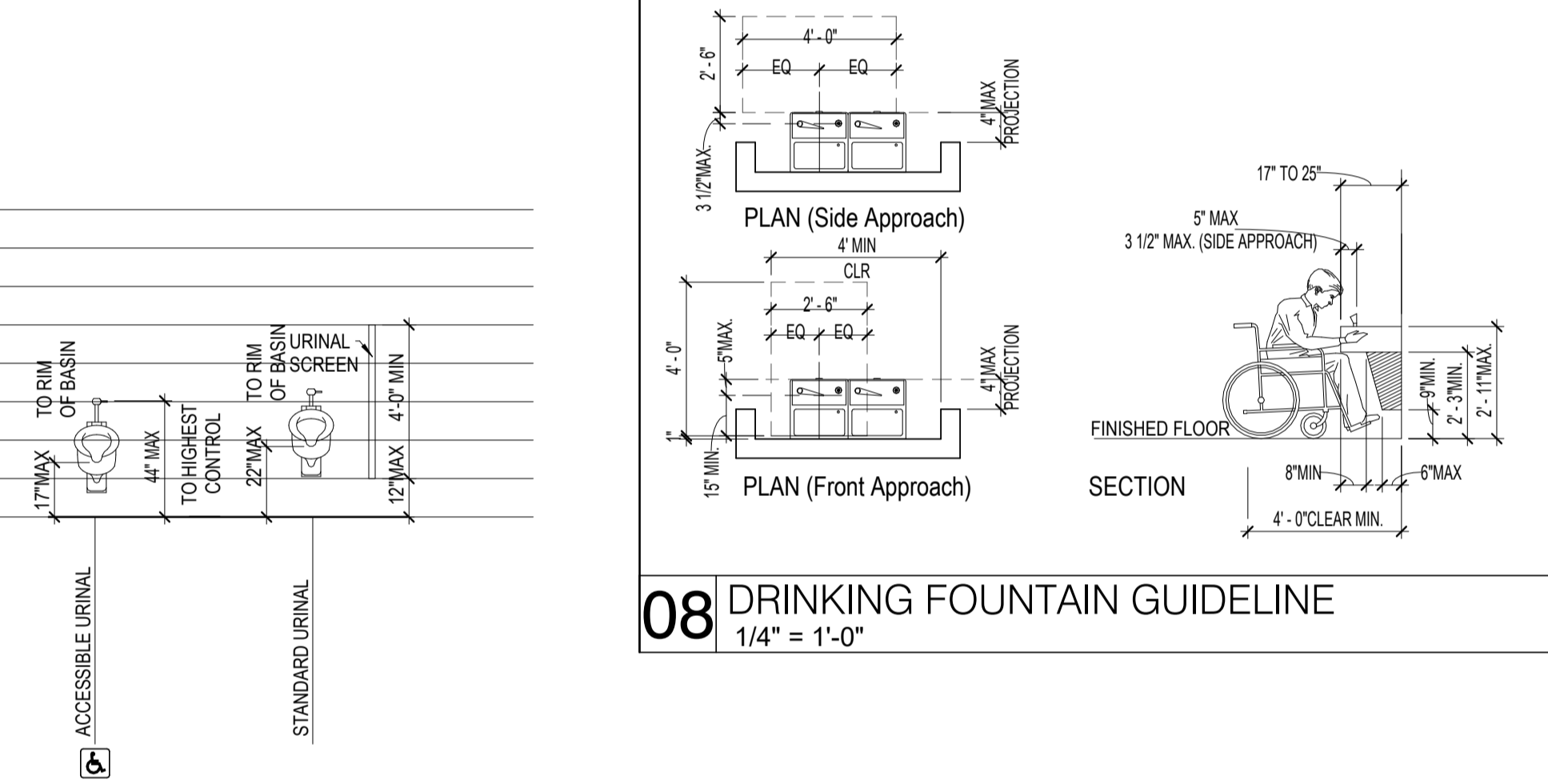
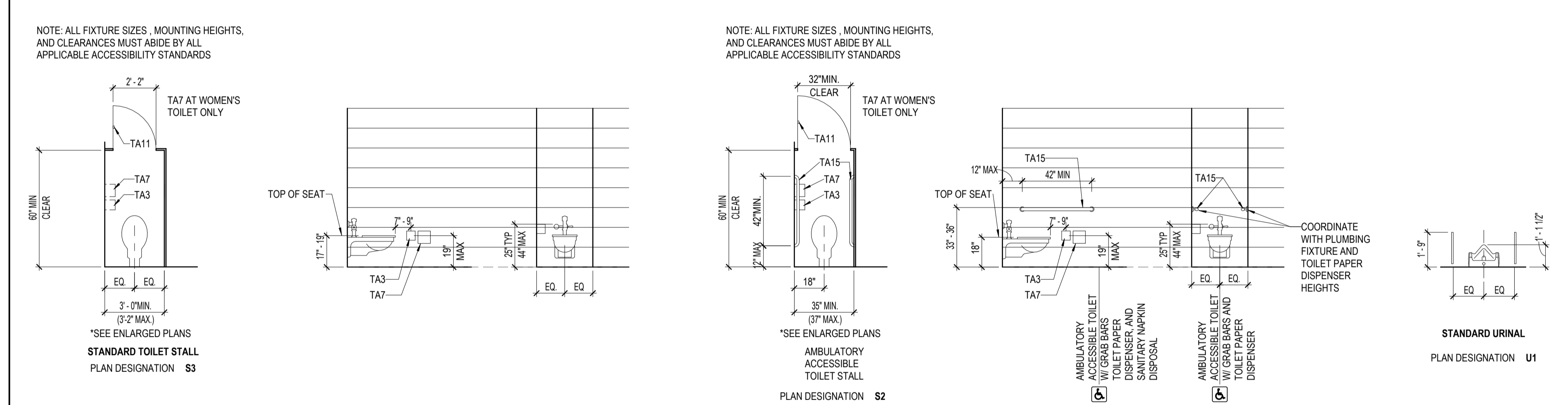
G-002

VICINITY MAP





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



DESCRIPTION	AGES 13 - ADULT (GRADES 8 AND ABOVE)
WATER CLOSET: To Top of Seat	17" - 19"
Grab Bar Height	33" - 38"
Flush Control Height	25" TYP 44" MAX
URINAL: Max. To Rim of Basin	17"
Flush Control Height (Max)	44"
LAVATORIES: Front Approach	27"
Knee Clearance (Min)	27"
To Top (Max)	34"
To Faucet (Max)	29"
FIXED OR BUILT-IN: Height of Tables or Counter	28" - 34"
Knee Clearance (Min)	27"
SHELVES, DISPENSERS: Max. Height to Control Device	48"
Frontal Approach (Max)	48"
Side Approach (Max)	48"
DRINKING FOUNTAINS: To Spout (Max)	36"
Knee Clearance (Min)	27"
SWITCHES AND CONTROLS: Frontal Approach (Max)	48"
Side Approach (Max)	48"
MIRRORS: Max. Height to Bottom of Reflective Surface at Lavatories and Counter Tops	40"
Full Length	35"
MIRRORS: Min. Height to Top of Reflective Surface	74"
Full Length	74"
TOILET PAPER DISPENSER: Height to Center of Roll (Max)	19"
PAPER TOWEL DISPENSER: Height to Operating Mechanism	48"
SHOWER: Top of Seat	17" - 19"
Grab Bar	33" - 38"
To Hand Shower Head Mounting (Max)	48"

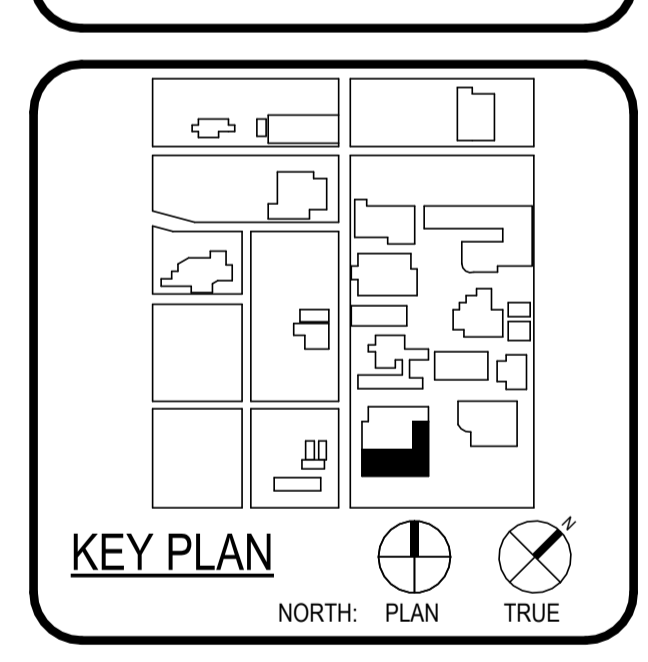


ARCHITECT: SAN ANTONIO PBK Architects, Inc.  
601 N.W. Loop 410, Suite 400  
San Antonio, TX 78216  
210-829-0123 P  
210-829-0578 F  
TX Firm BR 1808

**WFAC Black Box Addition PKG 1**

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

ISSUE FOR CONSTRUCTION



No.	Description	Date

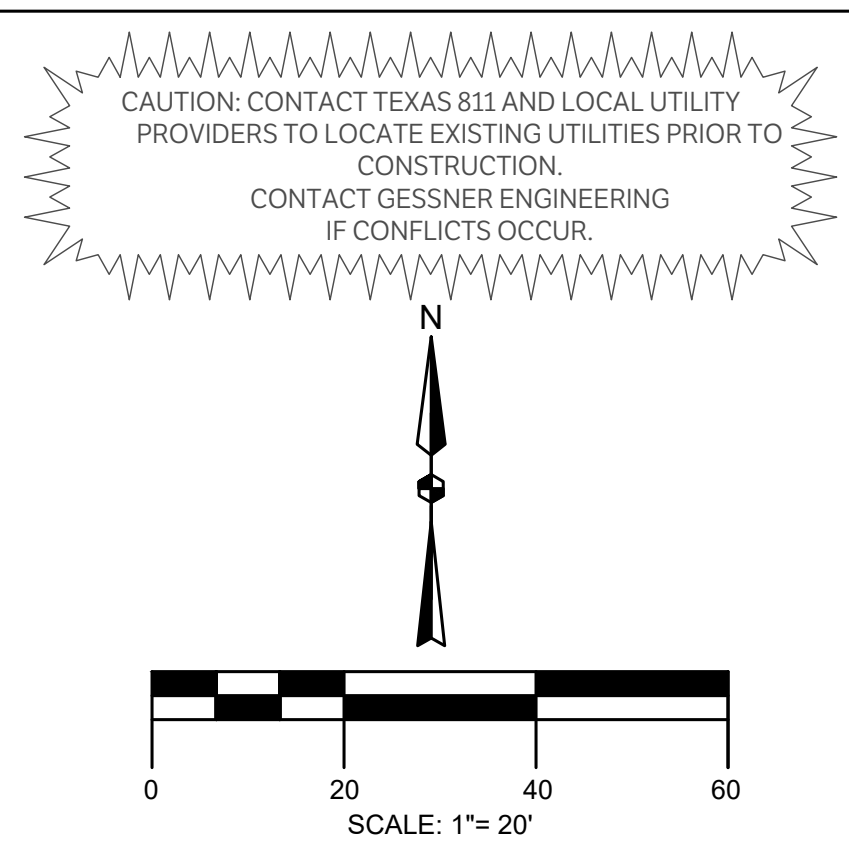
ISSUE FOR CONSTRUCTION  
BUILDING NUMBER 1

TEXAS ACCESSIBILITY STANDARDS



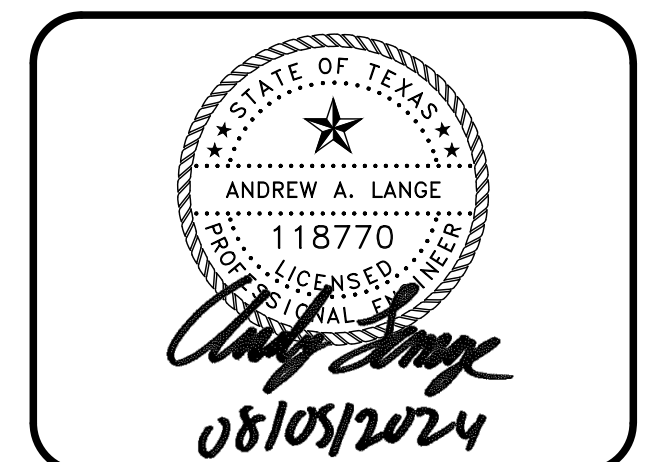
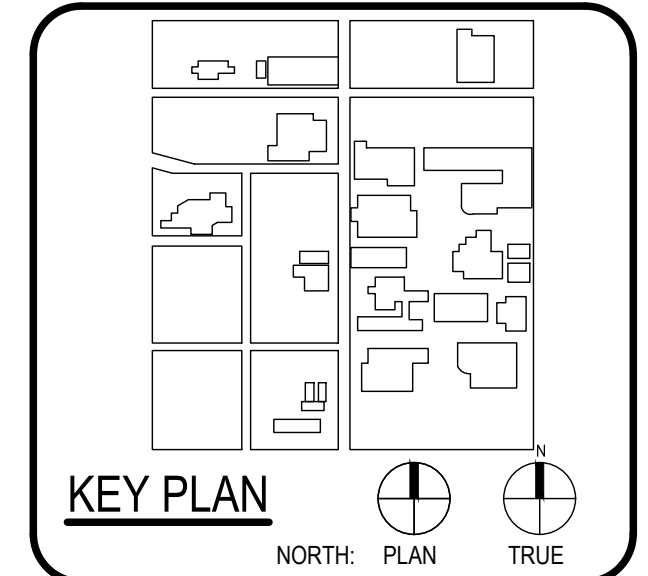
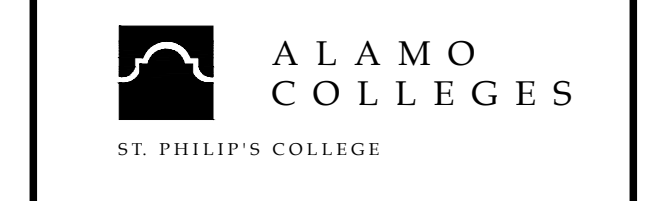
Sheet Grids Template  
Z400  
FOR BLUEBAM LABELING.COR.

# ISSUE FOR PERMIT



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

## WFAC Black Box Addition PKG 1



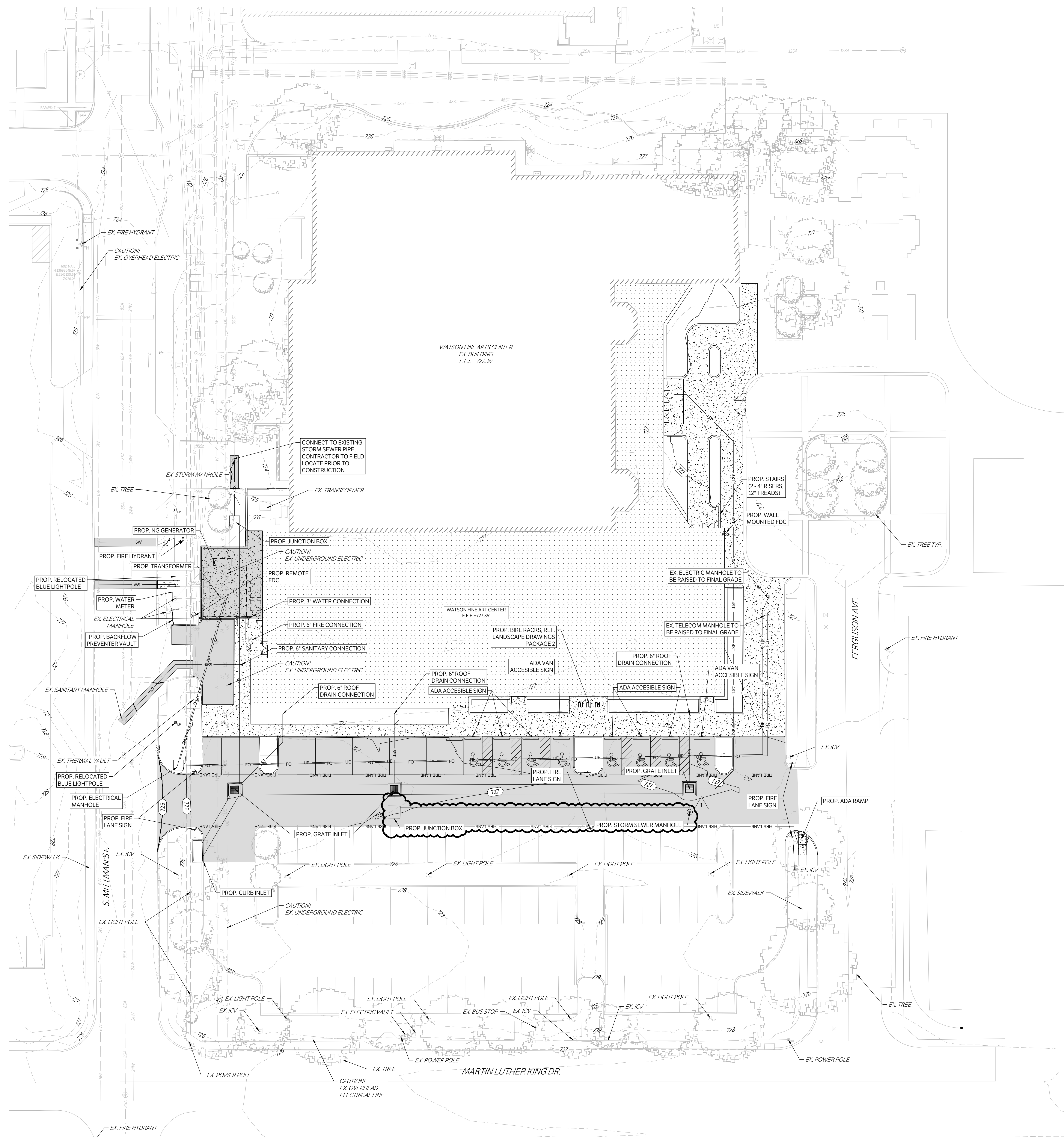
CLIENT	Alamo Colleges	
DATE	2024/06/12	
PROJECT NUMBER	230462	
DRAWING HISTORY		
No.	Description	Date
1	ADDENDUM 1	08/05/2024

## ISSUE FOR PERMIT

BUILDING NUMBER

### SITE PLAN

C200



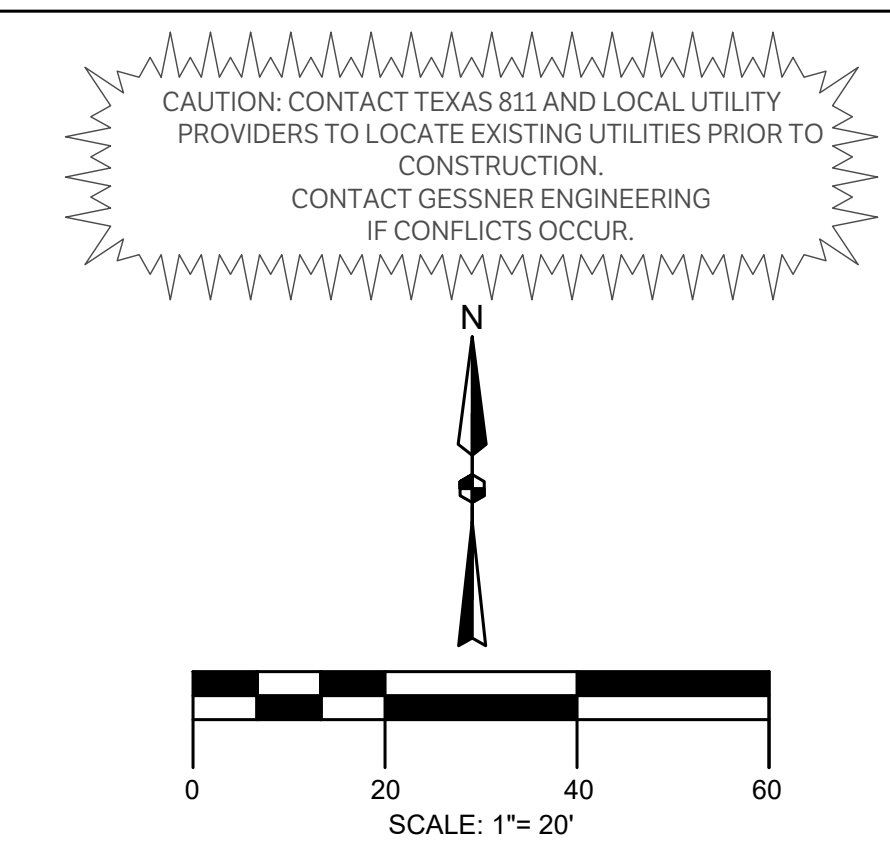
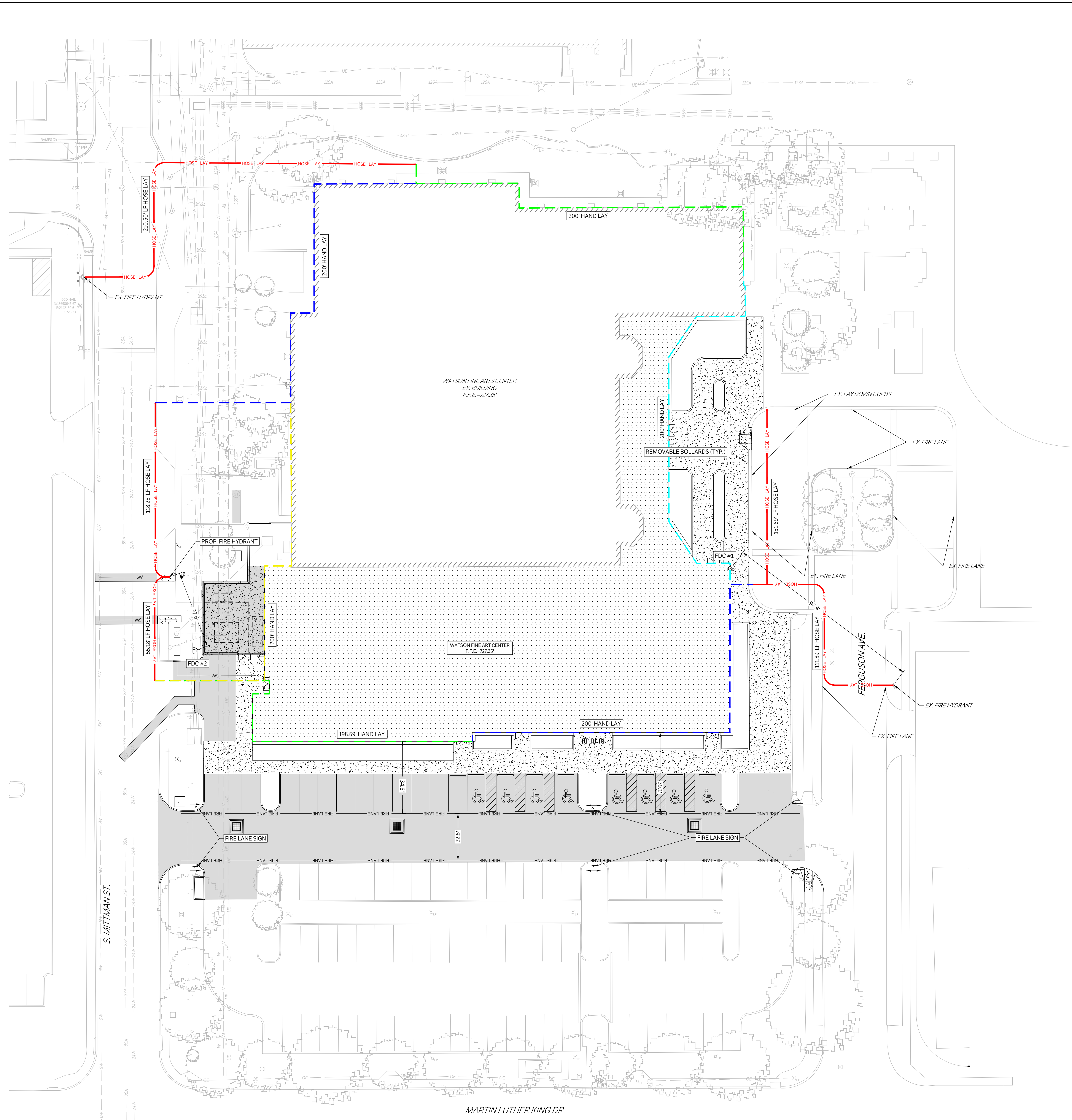
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[Pattern]	PROPOSED ASPHALT PAVEMENT
[Pattern]	PROPOSED STRUCTURAL PAVEMENT REF. STRUCTURAL
[Pattern]	PROPOSED 4" CONCRETE SIDEWALK
[Pattern]	PROPOSED BUILDING
[Line]	EXISTING PAVEMENT EDGE
[Line]	PROPERTY LINE
[Line]	EXISTING EASEMENT
[Line]	PROPOSED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

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

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

CHECKED BY: SH & AL  
DRAWN BY: JC

# ISSUE FOR CONSTRUCTION



**LEGEND**

[Symbol]	PROPOSED ASPHALT PAVEMENT
[Symbol]	PROPOSED STRUCTURAL PAVEMENT REF. STRUCTURAL
[Symbol]	PROPOSED 4" CONCRETE SIDEWALK
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[Symbol]	EX.   PROP. LIGHT POLE
[Symbol]	PROPOSED PUBLIC ACCESS EASEMENT
[Symbol]	PROPOSED UTILITY EASEMENT

**FIRE PROTECTION INFO**

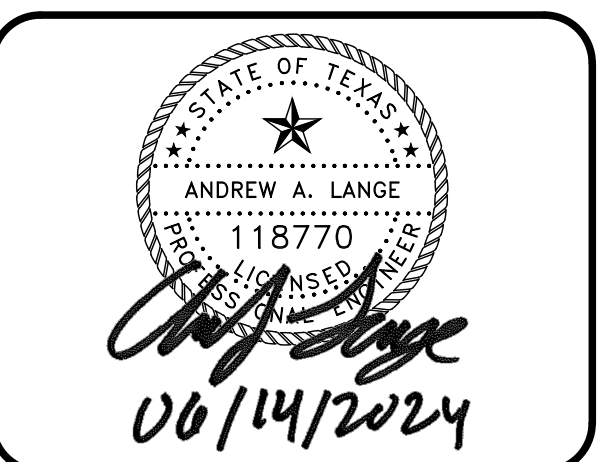
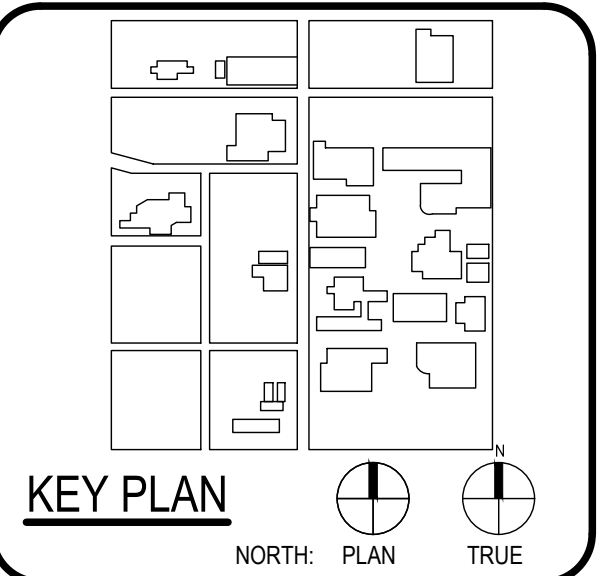
OWNER:	ST. PHILLIPS COLLEGE
SITE AREA (SF)	21,863
NO. OF STORIES	1
PROPOSED BUILDING	TOTAL GSF   HEIGHT   TYPE
	26,114   38 ft   IIB
TOTAL REQUIRED FLOW (GPM)	3,500
BUILDING SPRINKLER SYSTEM:	YES
REDUCTION DUE TO SPRINKLERS:	75%
FINAL REQUIRED FIRE FLOW	875
AVAILABLE FLOW @ 20 PSI (GPM)	940



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

ASSOCIATE ARCHITECT: SH & AL ARCHITECTS  
1311 N. LOOP WEST  
SUITE 1000  
DALLAS, TEXAS 75242  
214-760-1000  
LINDY & THOMAS ENGINEERING  
1111 W. 14TH STREET  
SUITE 1000  
DALLAS, TEXAS 75202  
PROVIDER: MEYER ENGINEERS  
1700 SOUTH LOOP WEST  
SUITE 1000  
DALLAS, TEXAS 75202

## WFAC Black Box Addition PKG 1



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

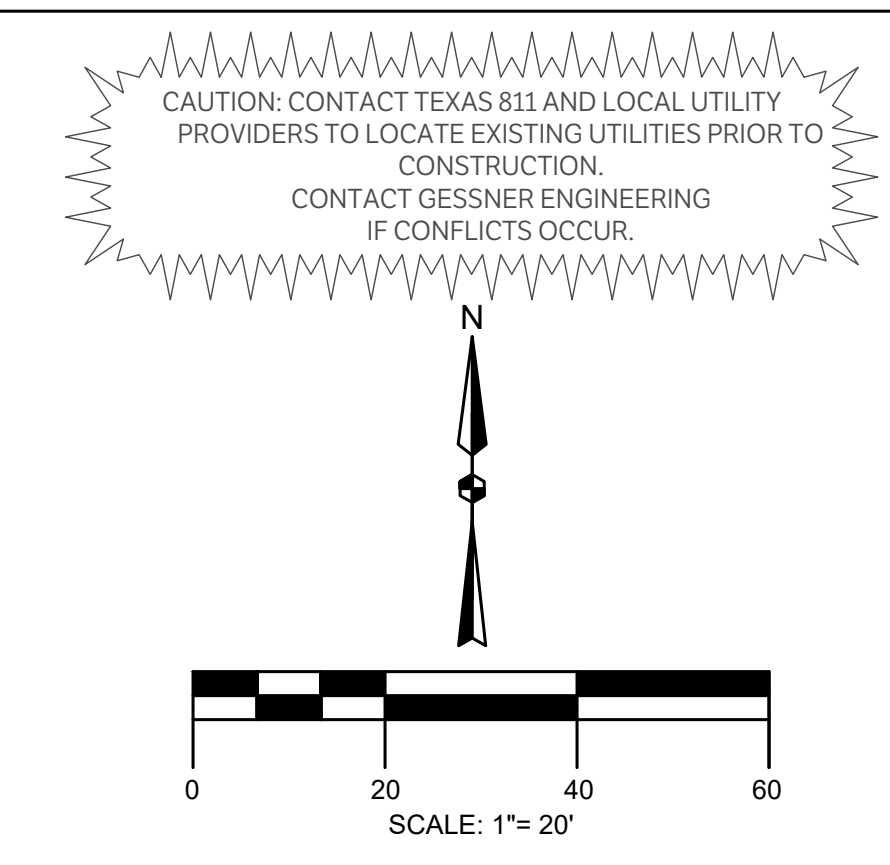
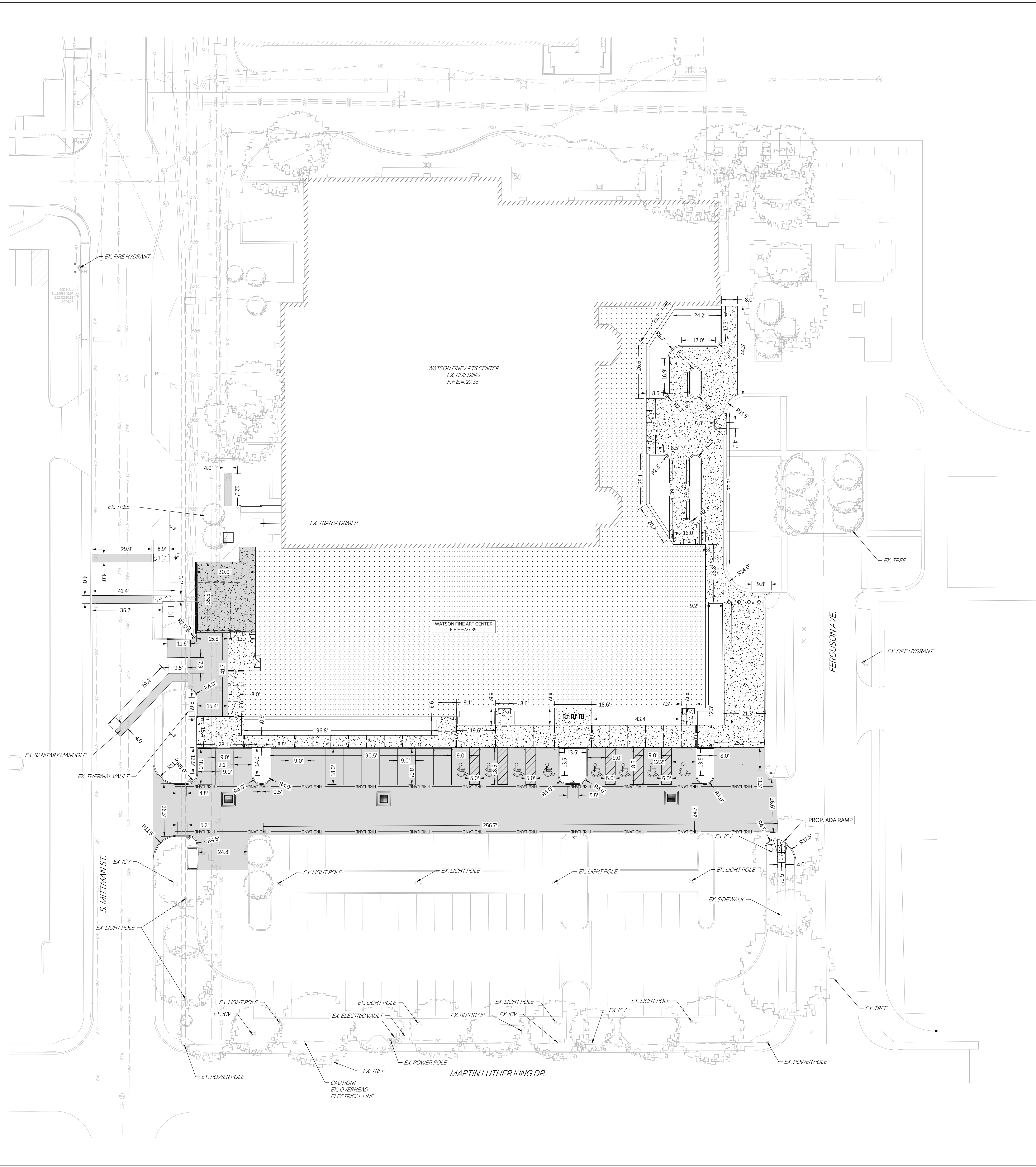
DRAWING HISTORY

No.	Description	Date

## SITE FIRE PLAN

C201

# ISSUE FOR CONSTRUCTION

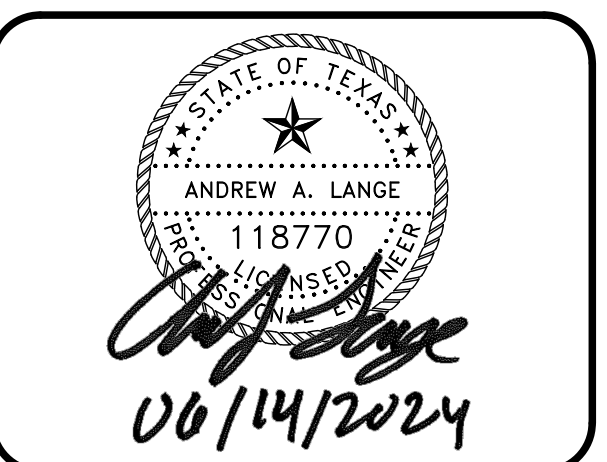
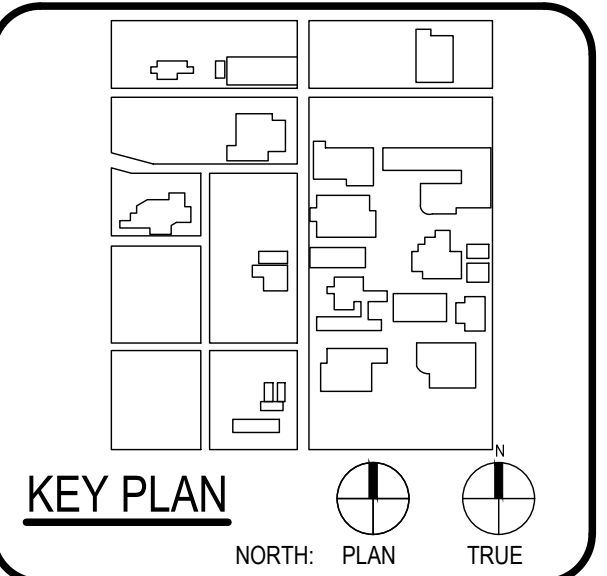


LEGEND	
[Pattern]	PROPOSED ASPHALT PAVEMENT
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[Symbol]	EX.   PROP. FIRE HYDRANT
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[Symbol]	EX.   PROP. WATER METER
[Symbol]	CONTRACTION JOINT
[Symbol]	EX.   PROP. GATE VALVE
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[Symbol]	PROP. POST INDICATOR VALVE
[Symbol]	PROP. HOSE LAY
[Symbol]	EX.   PROP. SANITARY SEWER MANHOLE
[Symbol]	EX.   PROP. SANITARY SEWER CLEANOUT
[Symbol]	EX. STORM SEWER MANHOLE
[Symbol]	PROP. STORM SEWER CURB INLET
[Symbol]	EX.   PROP. LIGHT POLE
[Symbol]	PROPOSED PUBLIC ACCESS EASEMENT
[Symbol]	PROPOSED UTILITY EASEMENT



ARCHITECT	PBK Architects, Inc.
SAN ANTONIO 601 N.W. Loop 410, Suite 400 San Antonio, TX 78216 210-829-0123 P 210-829-0578 F TX Firm BR 1608	
ASSOCIATE ARCHITECT	BA & ARCHITECTS
DESIGNER	BA & ARCHITECTS
LANDSCAPE ARCHITECT	BA & ARCHITECTS
MECHANICAL ENGINEER	BA & ARCHITECTS
ELECTRICAL ENGINEER	BA & ARCHITECTS
CIVIL ENGINEER	BA & ARCHITECTS
PLUMBING ENGINEER	BA & ARCHITECTS
STRUCTURAL ENGINEER	BA & ARCHITECTS
TRUCK DRIVER	BA & ARCHITECTS
TRUCK DRIVER	BA & ARCHITECTS
TRUCK DRIVER	BA & ARCHITECTS

## WFAC Black Box Addition PKG 1



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

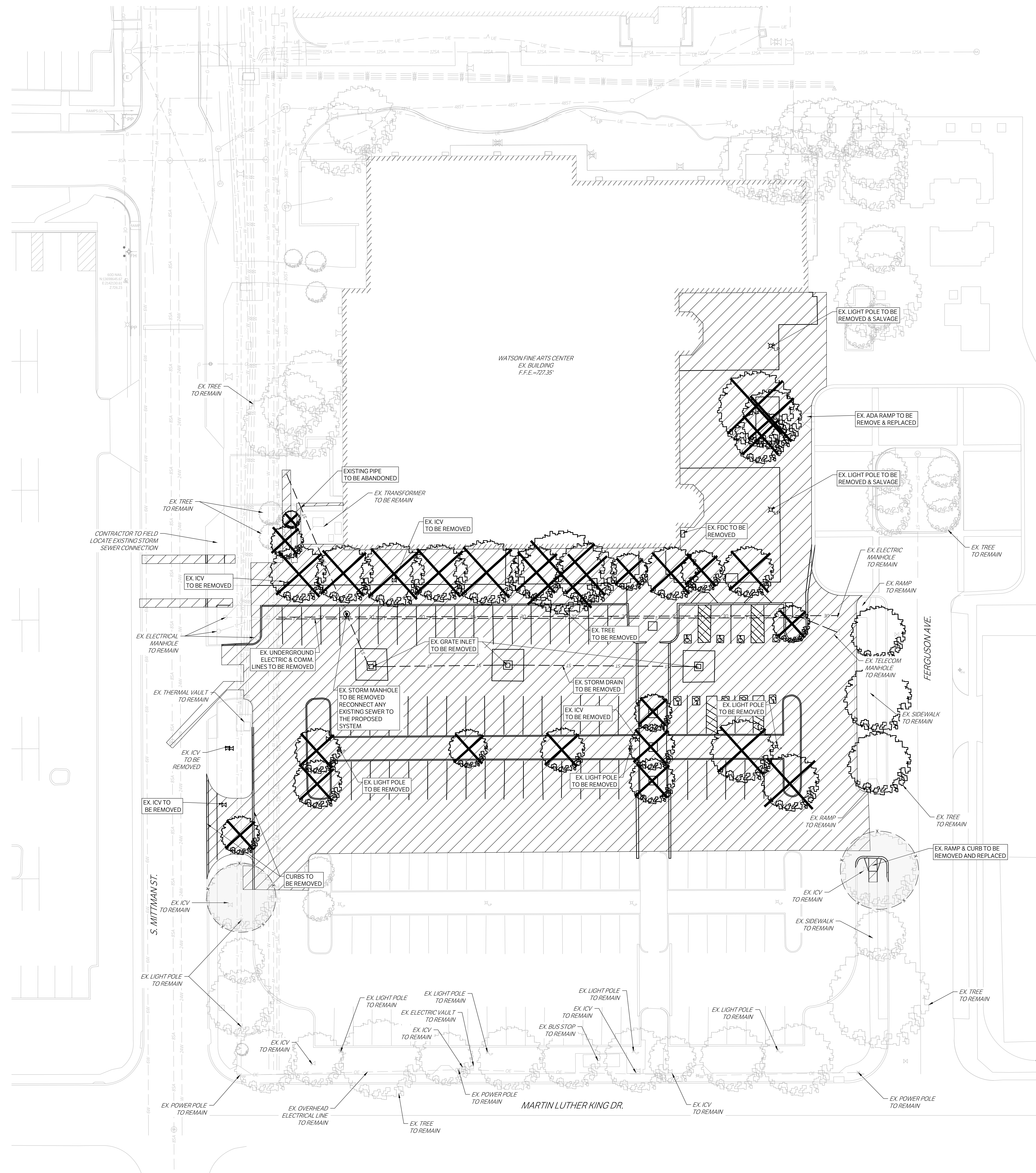
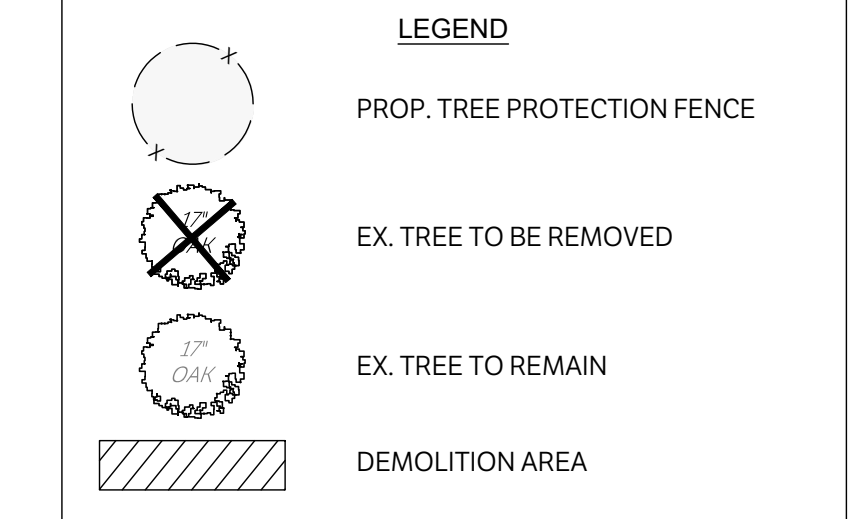
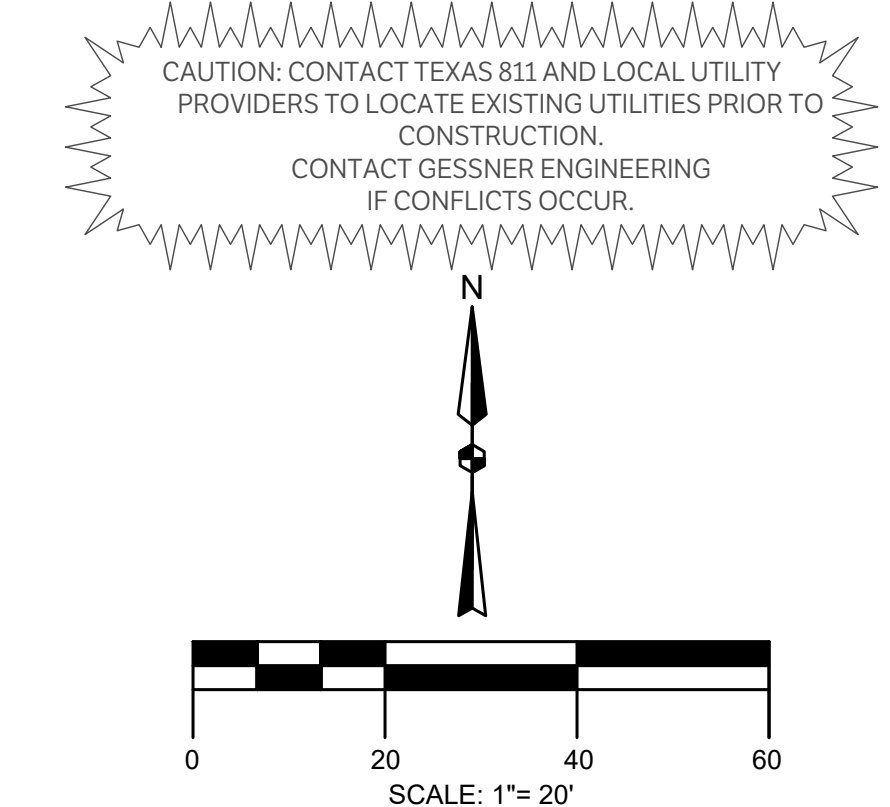
ISSUE FOR CONSTRUCTION  
BUILDING NUMBER

**DIMENSION CONTROL & PAVING PLAN**

**C202**

# ISSUE FOR CONSTRUCTION

Sheet Grids Template  
2400  
FOR BLUEBAM LABELING.COR.

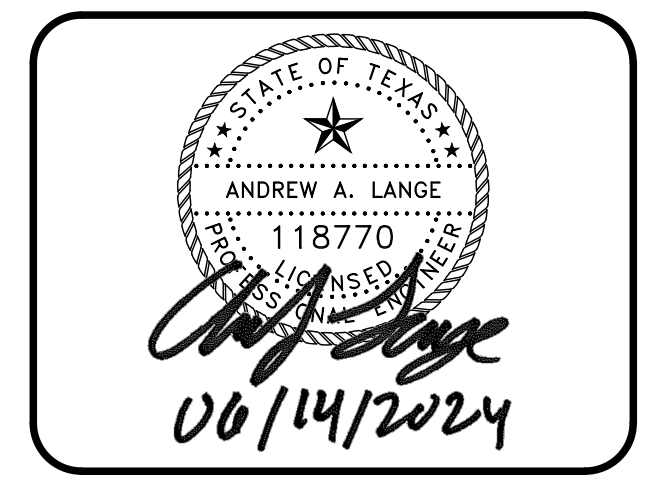
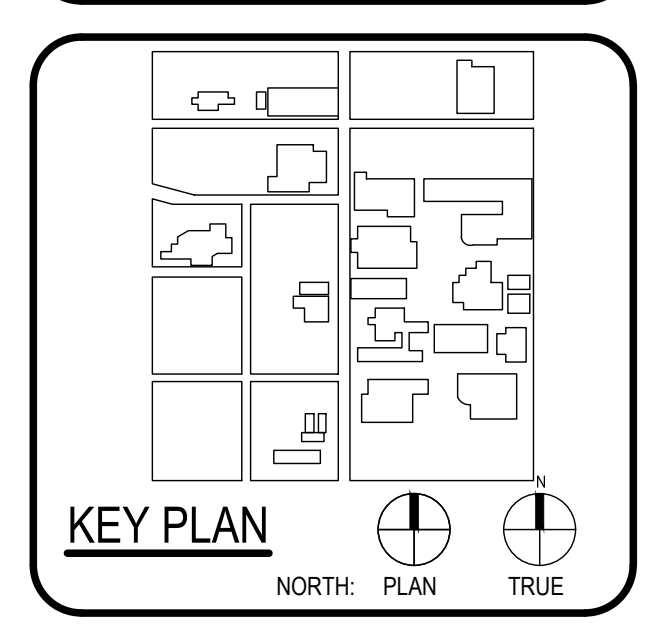


ARCHITECT	PBK Architects, Inc.
SAN ANTONIO 601 N.W. Loop 410, Suite 400 San Antonio, TX 78216 210-829-0123 P 210-829-0578 F TX Firm BR 1608	
ARCHITECT	BA & ARCHITECTS
2510 S. W. Loop 410, Suite 400 San Antonio, TX 78216 210-829-0123 P 210-829-0578 F TX Firm BR 1608	
ARCHITECT	BA & ARCHITECTS
2510 S. W. Loop 410, Suite 400 San Antonio, TX 78216 210-829-0123 P 210-829-0578 F TX Firm BR 1608	
ARCHITECT	LUNY & TRAVIS ENGINEERING
1000 W. Loop 410, Suite 400 San Antonio, TX 78216 210-829-0123 P 210-829-0578 F TX Firm BR 1608	
ARCHITECT	PROLOGIC
1000 W. Loop 410, Suite 400 San Antonio, TX 78216 210-829-0123 P 210-829-0578 F TX Firm BR 1608	
ARCHITECT	MEASUR
1000 W. Loop 410, Suite 400 San Antonio, TX 78216 210-829-0123 P 210-829-0578 F TX Firm BR 1608	

**WFAC Black Box Addition PKG 1**

600 S Miltman St.  
San Antonio, TX, 78203

ISSUE FOR CONSTRUCTION



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

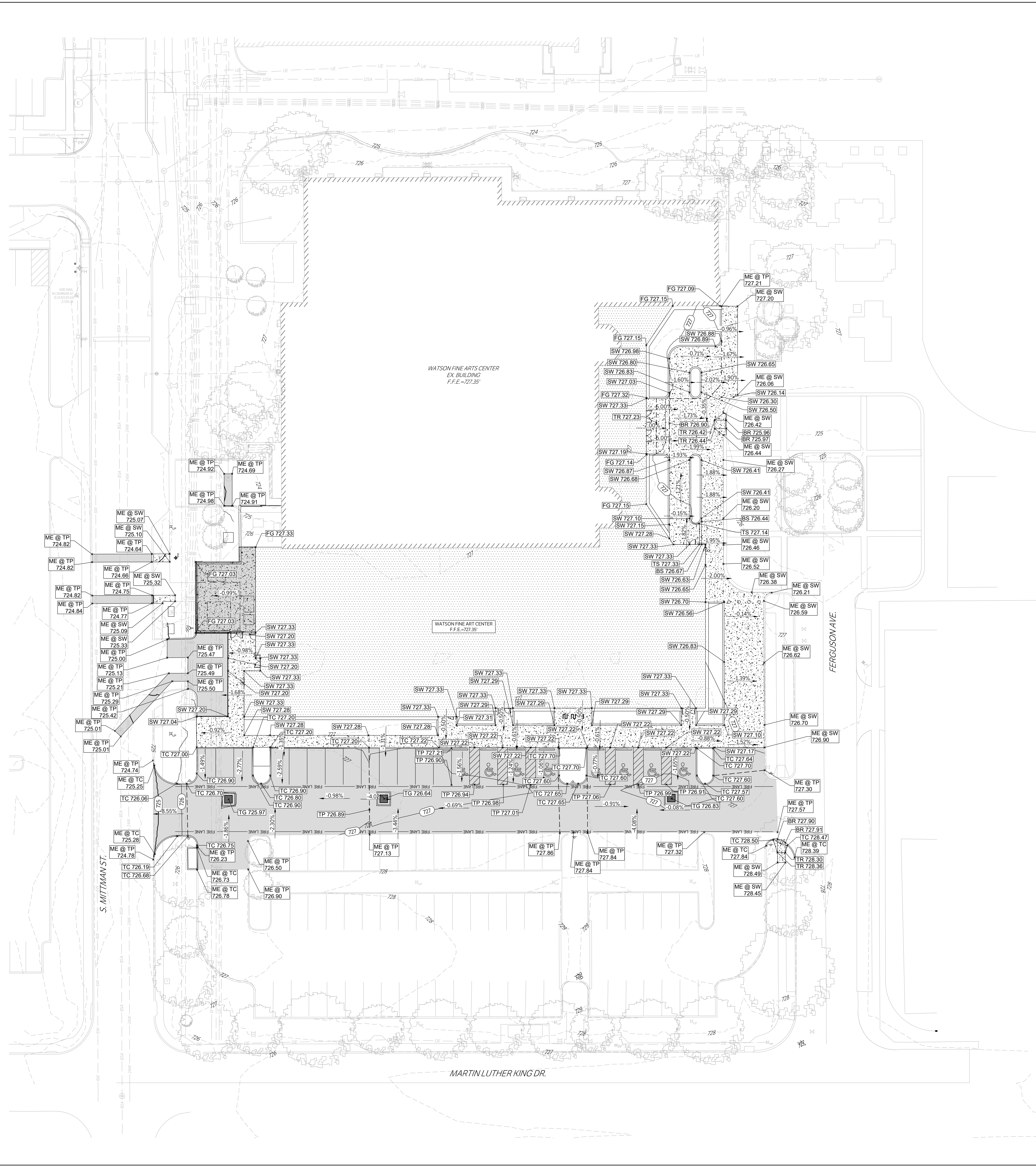
**EXISTING CONDITIONS & DEMO PLAN**

**C300**

CHECKED BY: SH & AL  
DRAWN BY: JC



# ISSUE FOR CONSTRUCTION



**LEGEND**

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

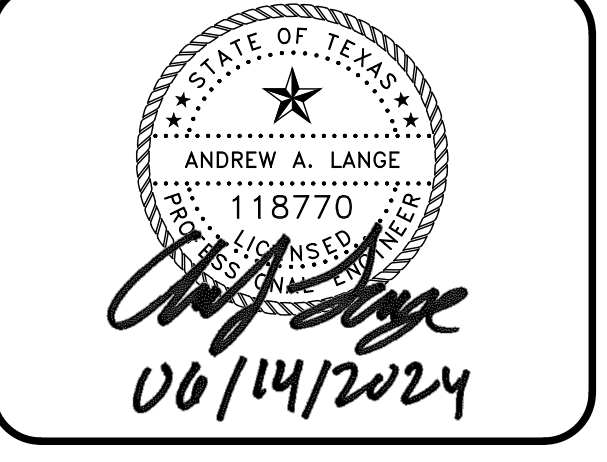
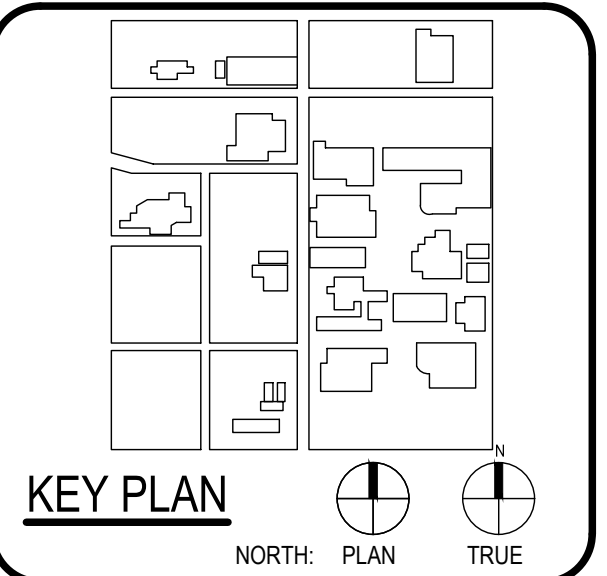


**ARCHITECT** PBK Architects, Inc.  
 SAN ANTONIO  
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 210-829-0123 P  
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**ASSOCIATE ARCHITECT** BA & ARCHITECTS  
 1255 W. 14th St.  
 San Antonio, TX 78205  
 210-461-9999  
 TX Firm BR 1608

**CONSULTANTS**  
 CIVIL ENGINEER  
 LANDSCAPE ARCHITECT  
 STRUCTURAL ENGINEER  
 MECHANICAL ENGINEER  
 ELECTRICAL ENGINEER  
 PLUMBING ENGINEER  
 PAVEMENT ENGINEER  
 TRAFFIC ENGINEER  
 GEOTECHNICAL ENGINEER  
 ENVIRONMENTAL ENGINEER  
 HISTORIC PRESERVATION ARCHITECT

## WFAC Black Box Addition PKG 1



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

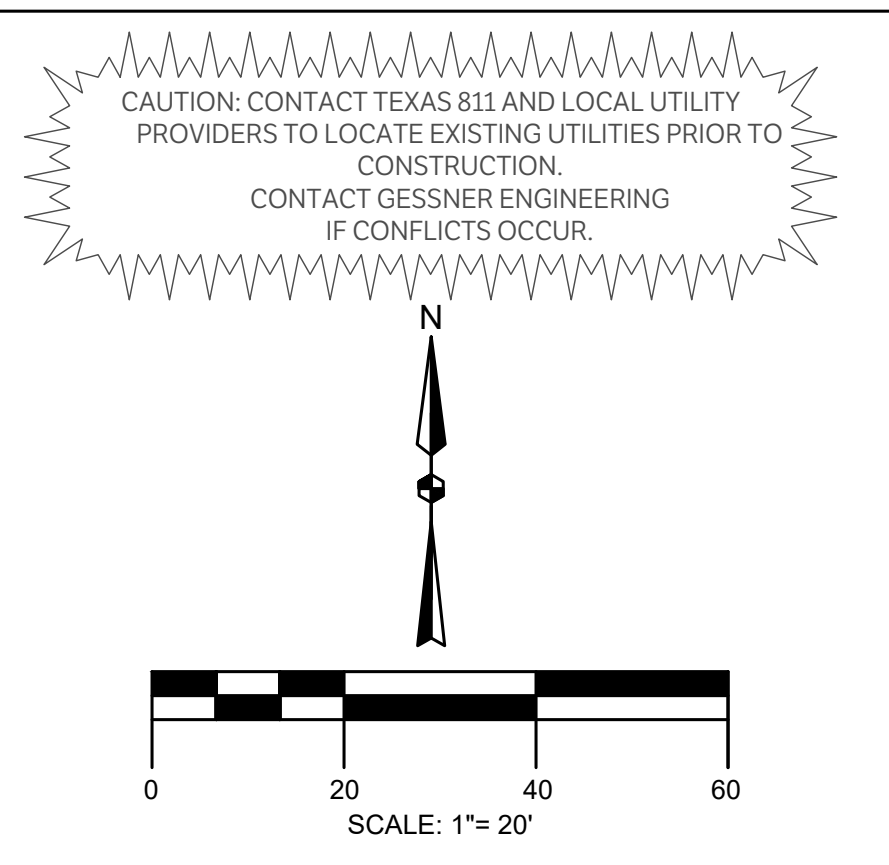
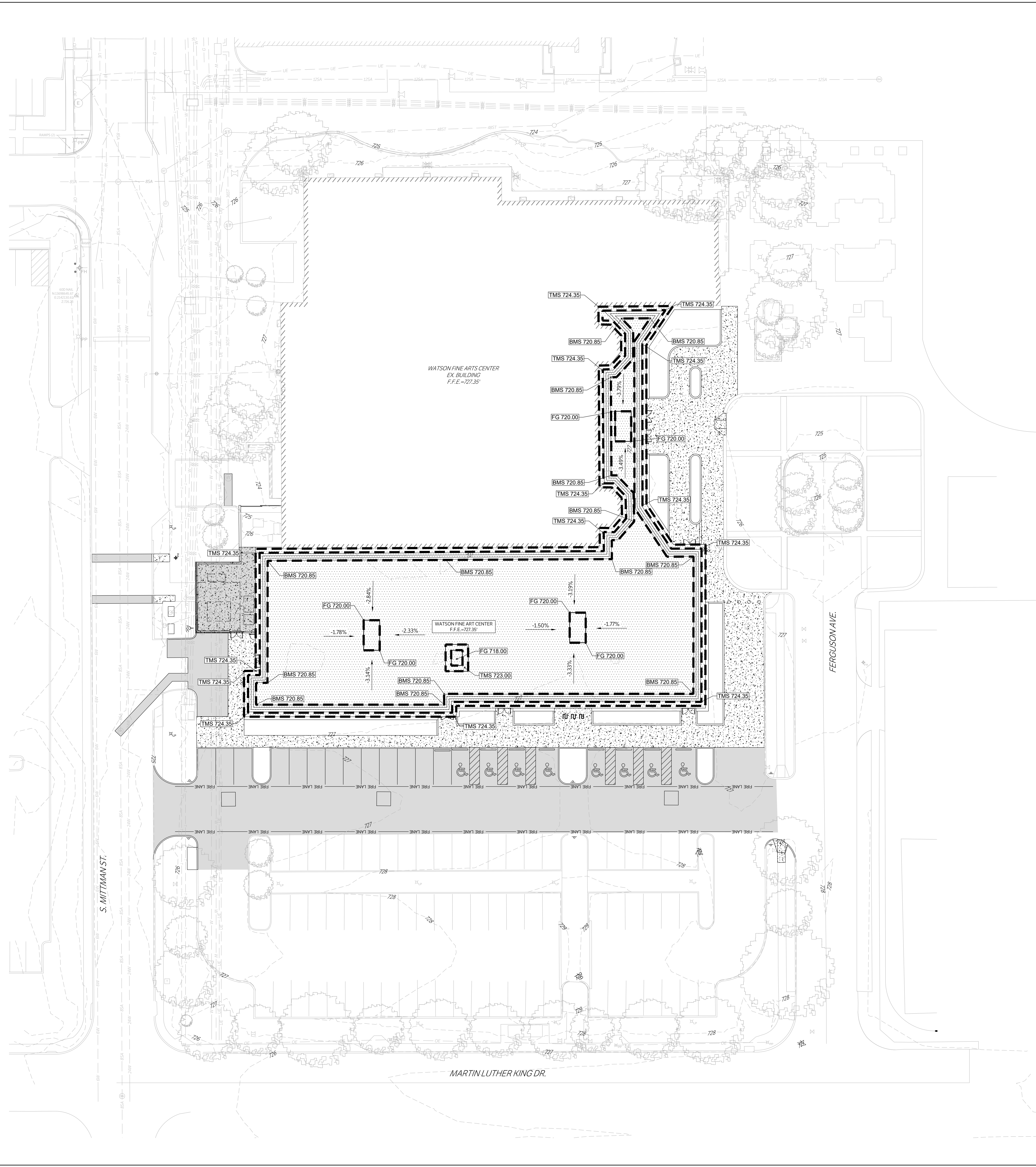
DRAWING HISTORY		
No.	Description	Date

**ISSUE FOR CONSTRUCTION**  
 BUILDING NUMBER

**GRADING PLAN**

# C400

# ISSUE FOR CONSTRUCTION



**LEGEND**

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

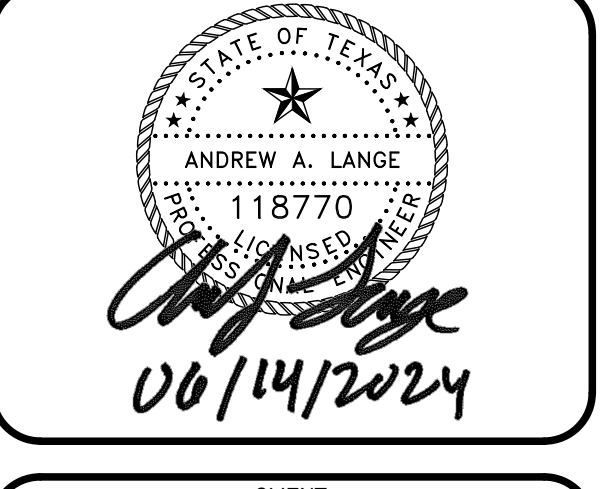
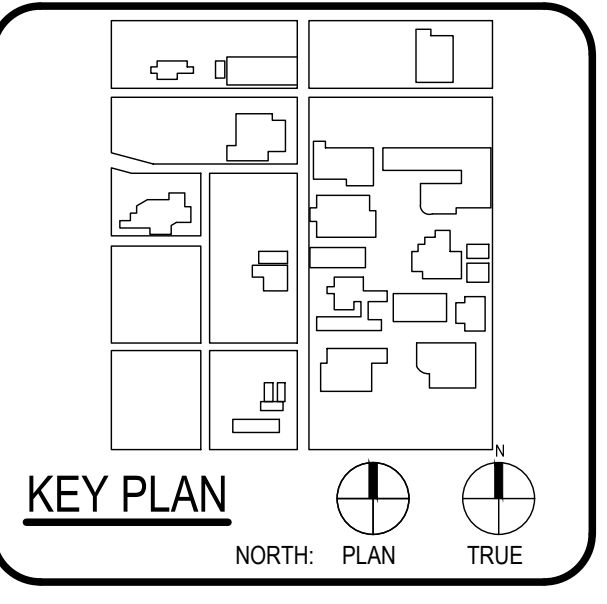
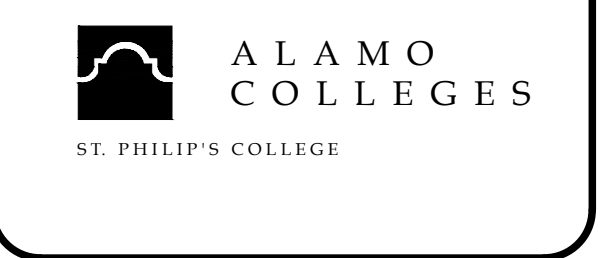


**ARCHITECT** SAN ANTONIO PBK Architects, Inc.  
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TX Firm BR 1608

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Suite 1000  
San Antonio, TX 78205  
210-461-0000  
LINDY & HARRIS ENGINEERING  
1111 N. Loop West  
Suite 1000  
San Antonio, TX 78205  
210-461-0000  
PROFESSOR  
MEAN PROFESSIONALS  
1111 N. Loop West  
Suite 1000  
San Antonio, TX 78205

**WFAC Black Box Addition PKG 1**

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



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

**DRAWING HISTORY**

No.	Description	Date

**ISSUE FOR CONSTRUCTION**

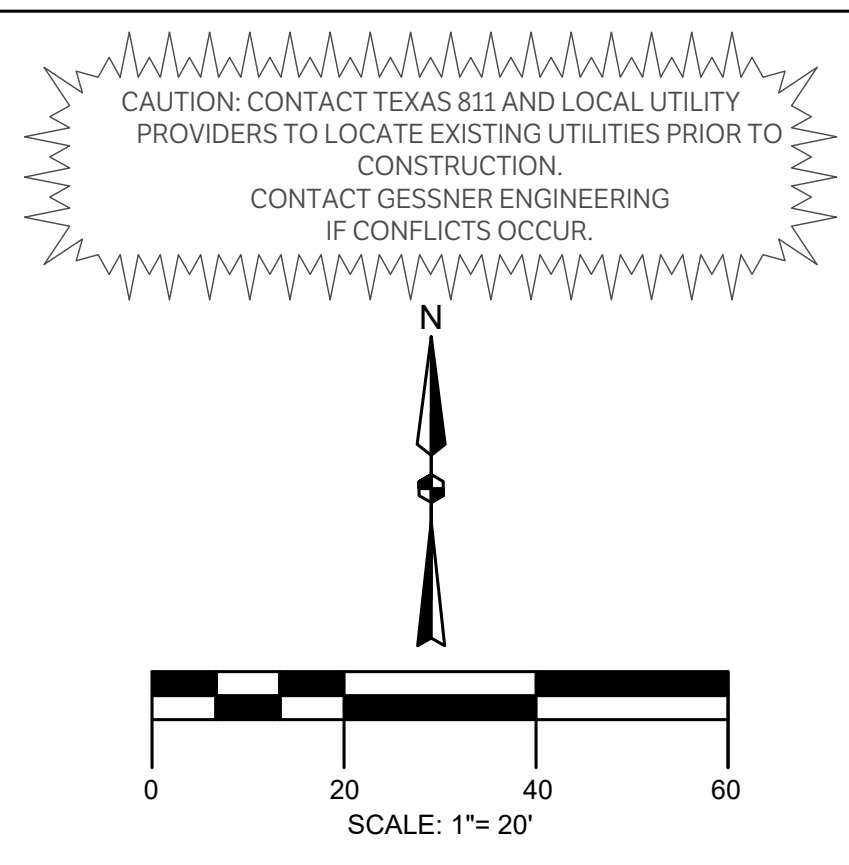
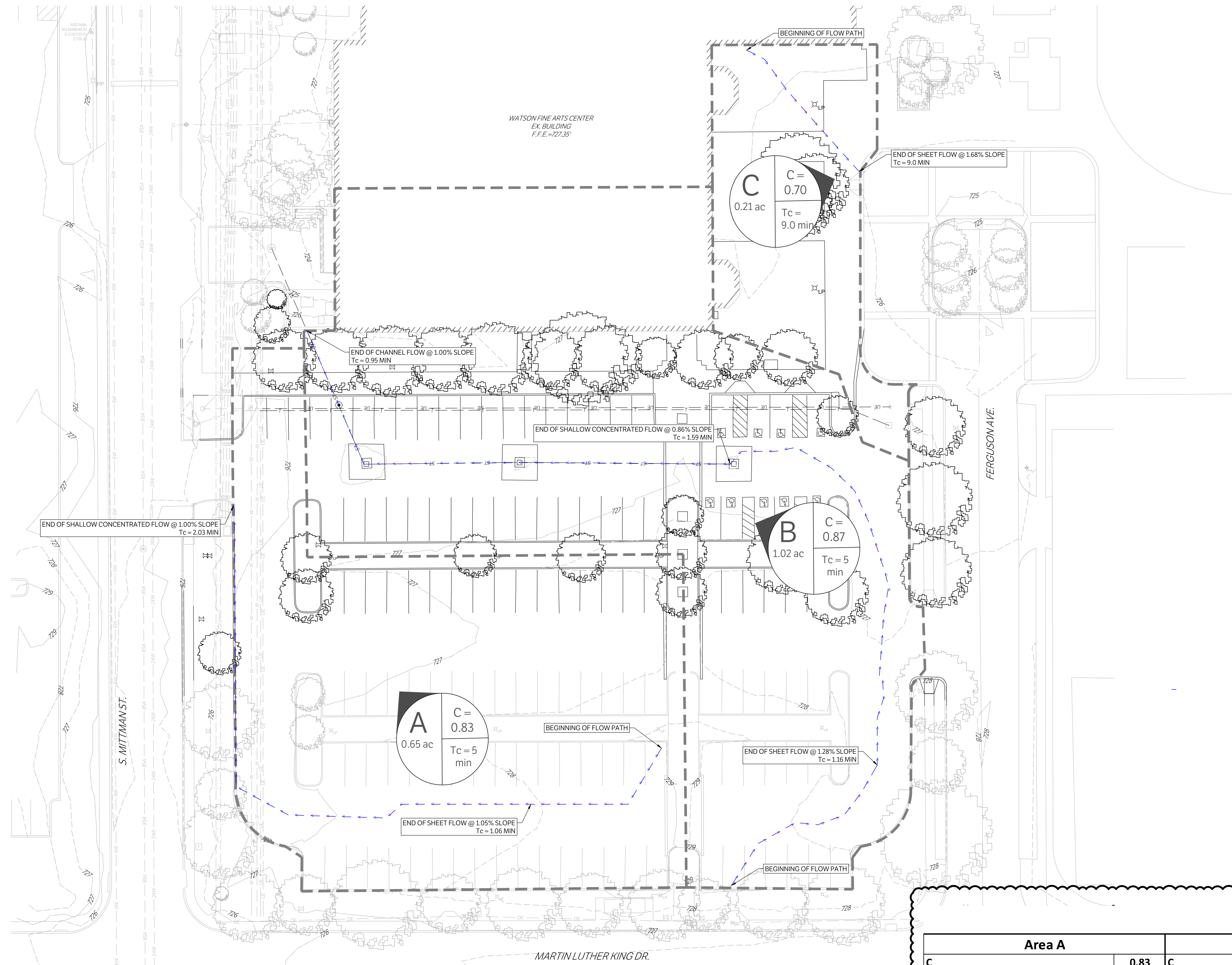
BUILDING NUMBER

**CRAWLSPACE**

**C401**

# ISSUE FOR PERMIT

Sheet Grids Template  
Z400  
FOR BLUEBAM LABELING.COR.



**LEGEND**

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

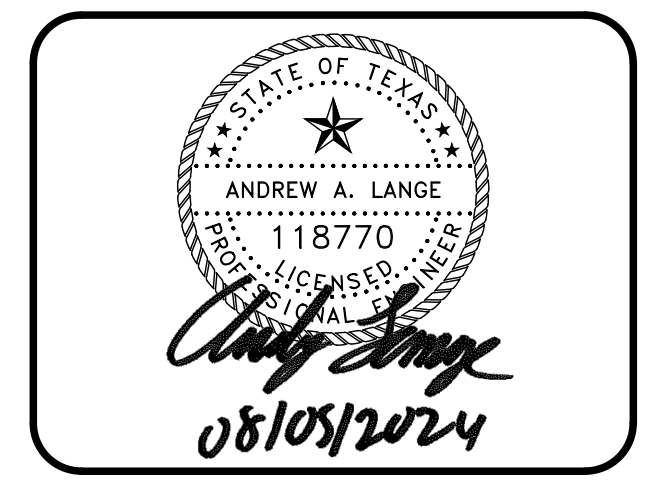
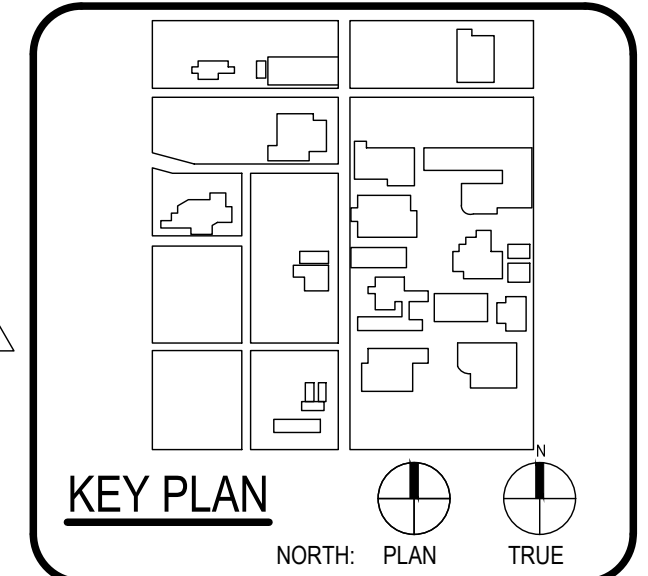
**CAUTION: CONTACT TEXAS 811 AND LOCAL UTILITY PROVIDERS TO LOCATE EXISTING UTILITIES PRIOR TO CONSTRUCTION.**  
CONTACT GESSNER ENGINEERING IF CONFLICTS OCCUR.



**ARCHITECT** SAN ANTONIO PBK Architects, Inc.  
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San Antonio, TX 78216  
210-829-0123 P  
210-829-0578 F  
TX Firm BR 1608

**WFAC Black Box Addition PKG 1**

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



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

**ISSUE FOR PERMIT**

BUILDING NUMBER

**PRE DRAINAGE AREA MAP**

C500

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

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

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

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

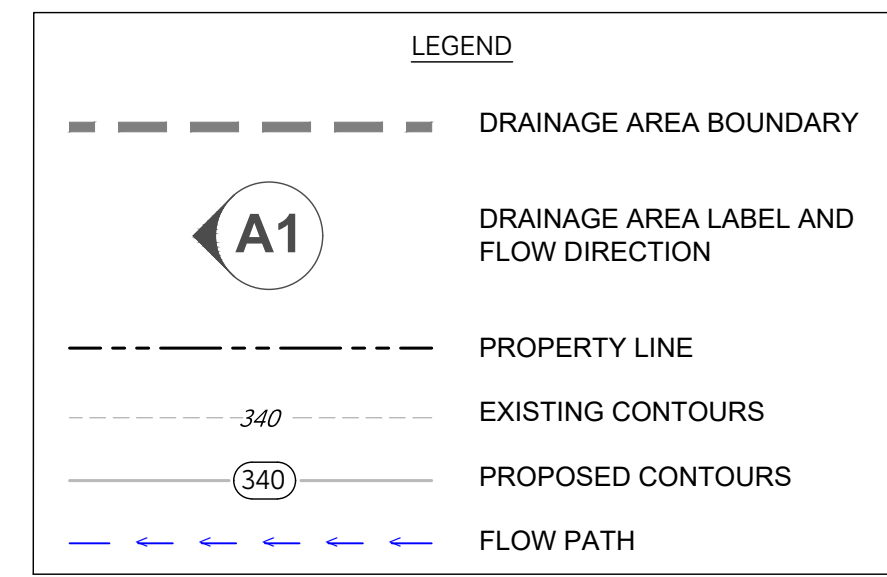
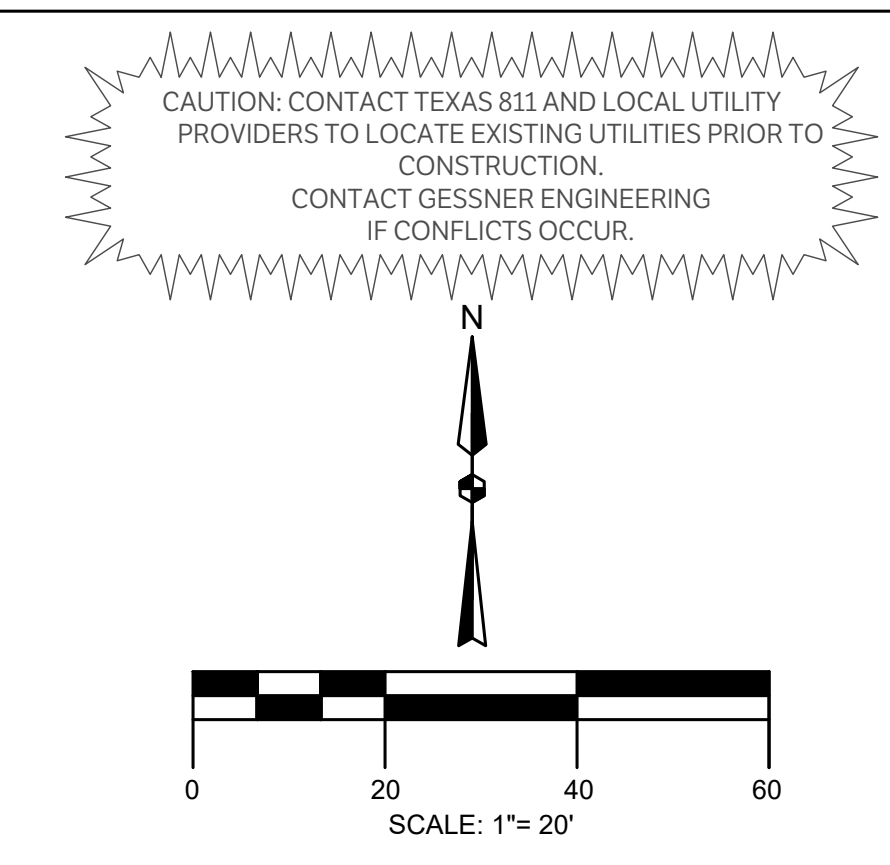
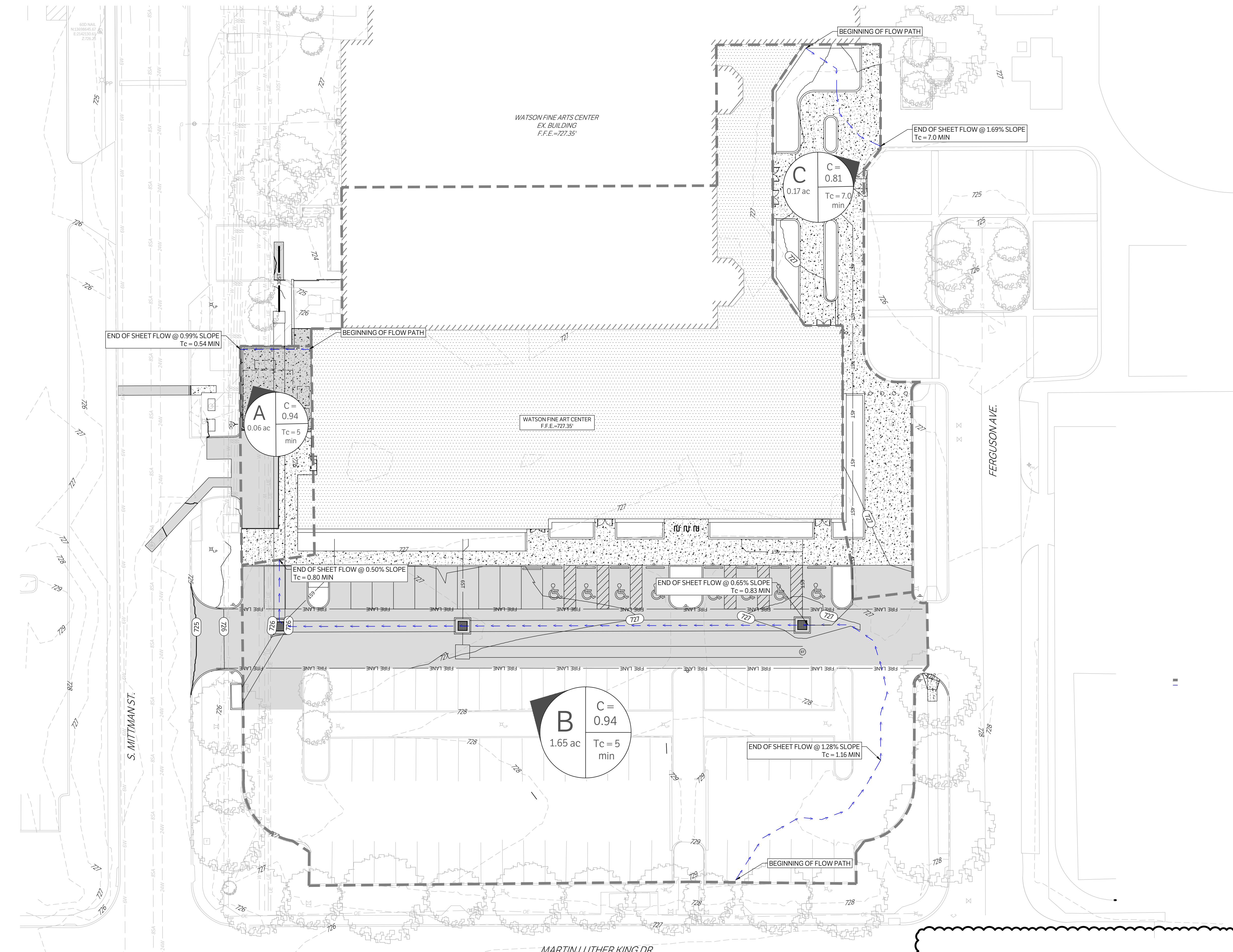
Time (minutes)	Atlas 14 Rainfall Intensity (in/hr)			
	1 - YEAR	5 - YEAR	25 - YEAR	100 - YEAR
5	5.29	7.88	11.00	13.79
6	5.07	7.45	10.43	13.08
7	4.86	7.11	9.95	12.49
8	4.64	6.81	9.54	11.97
9	4.43	6.54	9.17	11.49
10	4.21	6.30	8.82	11.05

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

CHECKED BY: SH & AL  
DRAWN BY: JC

# ISSUE FOR PERMIT

Sheet Grids Template  
Z400  
FOR BLUEBAM LABELING.COR.



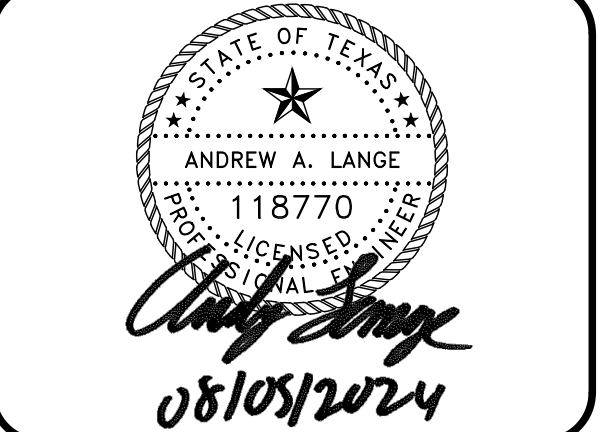
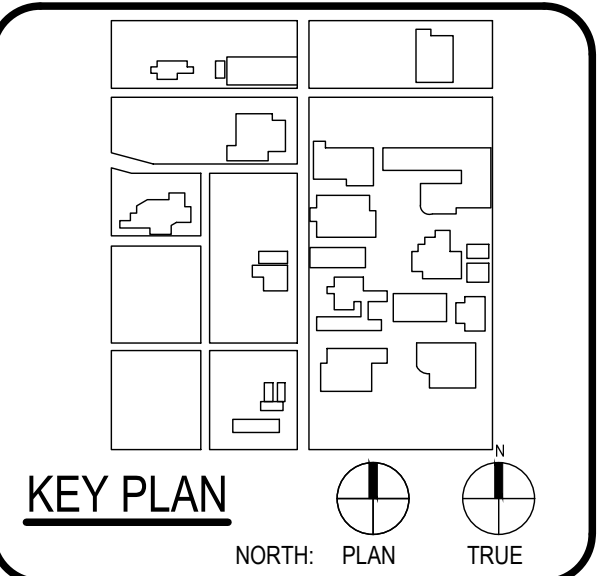
Required Storage	
Storm Event	Required Storage (ft <sup>3</sup> )
1 - Year	2037.00
5 - Year	2784.00
25 - Year	3698.00
100 - Year	4549.00



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San Antonio, TX 78216  
210-829-0123 P  
210-829-0578 F  
TX Firm BR 1608  
REGISTERED ARCHITECT  
BA & ARCHITECTS  
13100 W. LOOP 410, SUITE 400  
SAN ANTONIO, TEXAS 78216  
LINDY & HARRIS ENGINEERING  
210-595-1234  
PROFESSOR OF CIVIL ENGINEERING  
LINDY & HARRIS ENGINEERING  
210-595-1234  
REGISTERED PROFESSIONALS  
LINDY & HARRIS ENGINEERING  
210-595-1234  
REGISTERED PROFESSIONALS  
LINDY & HARRIS ENGINEERING  
210-595-1234

WFAC Black Box Addition PKG 1

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



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

ISSUE FOR PERMIT  
BUILDING NUMBER

POST DRAINAGE AREA MAP

C501

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

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

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

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

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

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

CHECKED BY: SH & AL  
DRAWN BY: JC

# ISSUE FOR PERMIT

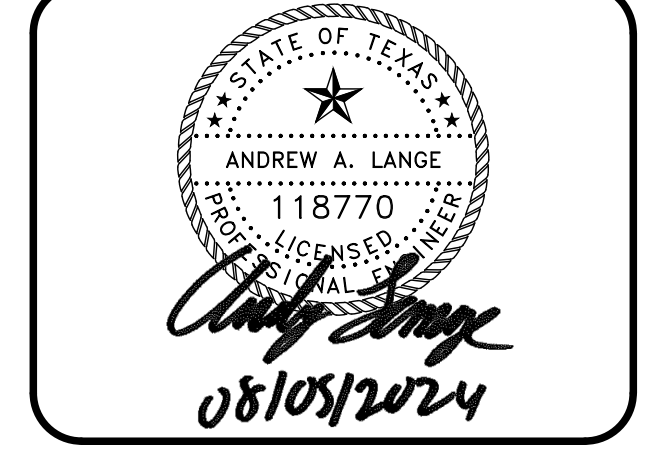
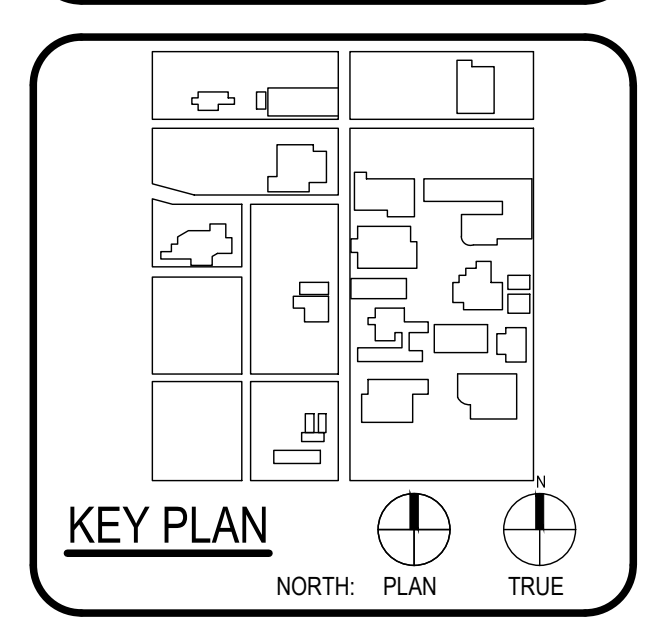
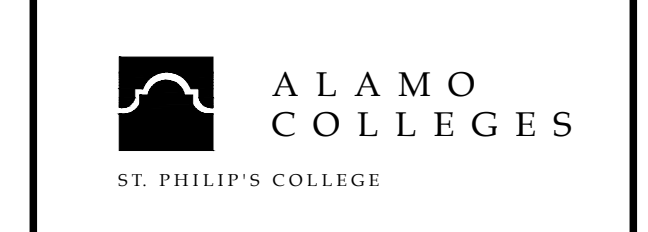
CAUTION: CONTACT TEXAS 811 AND LOCAL UTILITY PROVIDERS TO LOCATE EXISTING UTILITIES PRIOR TO CONSTRUCTION.  
 CONTACT GESSNER ENGINEERING IF CONFLICTS OCCUR.



ARCHITECT	PBK Architects, Inc.
SAN ANTONIO 601 N.W. Loop 410, Suite 400 San Antonio, TX 78216 210-829-0123 P 210-829-0578 F TX Firm BR 1608	
ARCHITECT	BA & ARCHITECTS
SAN ANTONIO 1701 BRASS LANDSCAPE DESIGN GROUP 1711 BRASS LINDY & HARRIS ENGINEERING 1711 BRASS T. HARRIS PROVIDOR NEAR PROPOSALS 1711 BRASS TEAM T. HARRIS	

**WFAC Black Box Addition PKG 1**

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

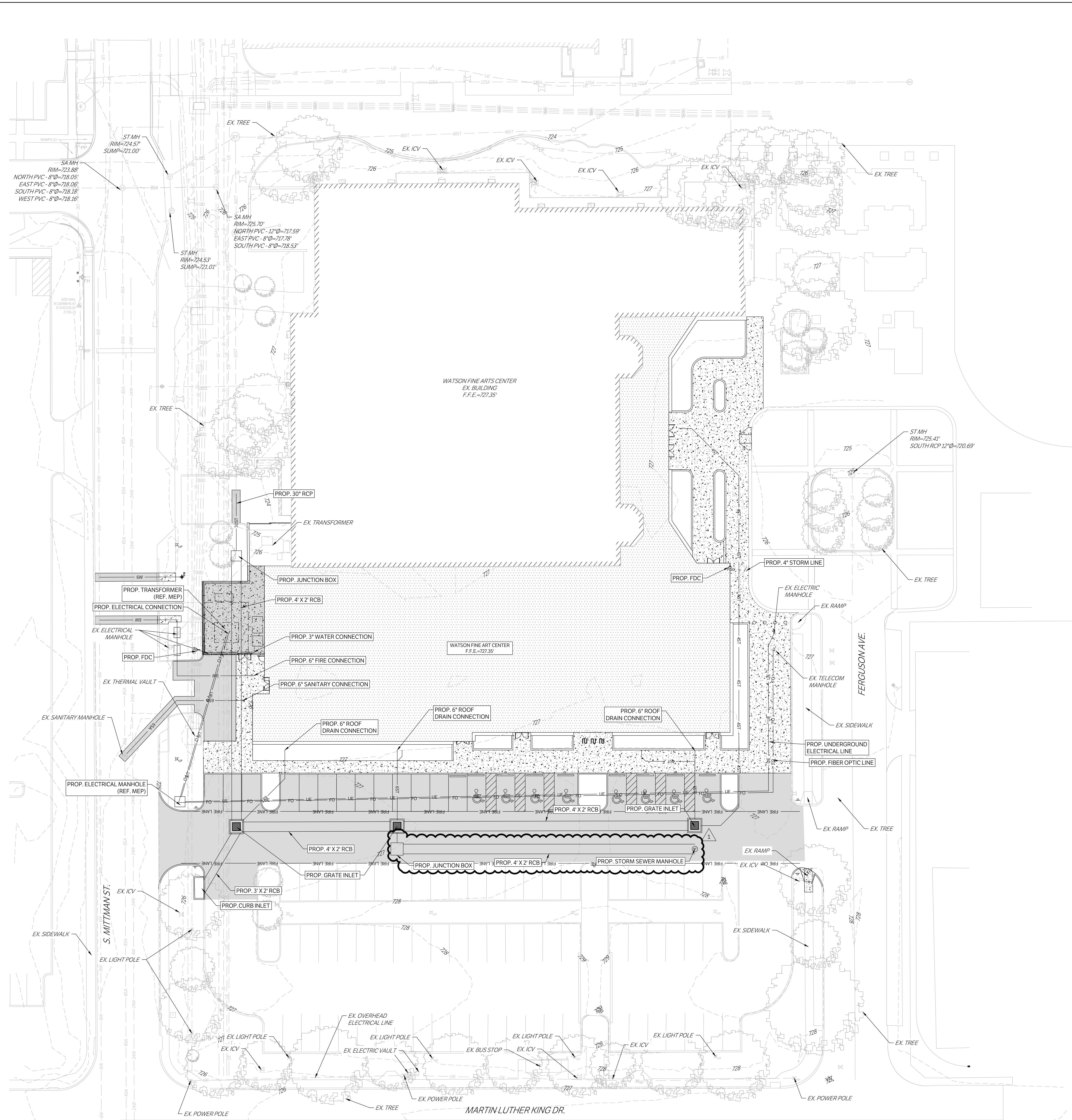


CLIENT	Alamo Colleges
DATE	2024/06/12
PROJECT NUMBER	230462

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

ISSUE FOR PERMIT	
BUILDING NUMBER	
OVERALL UTILITY	

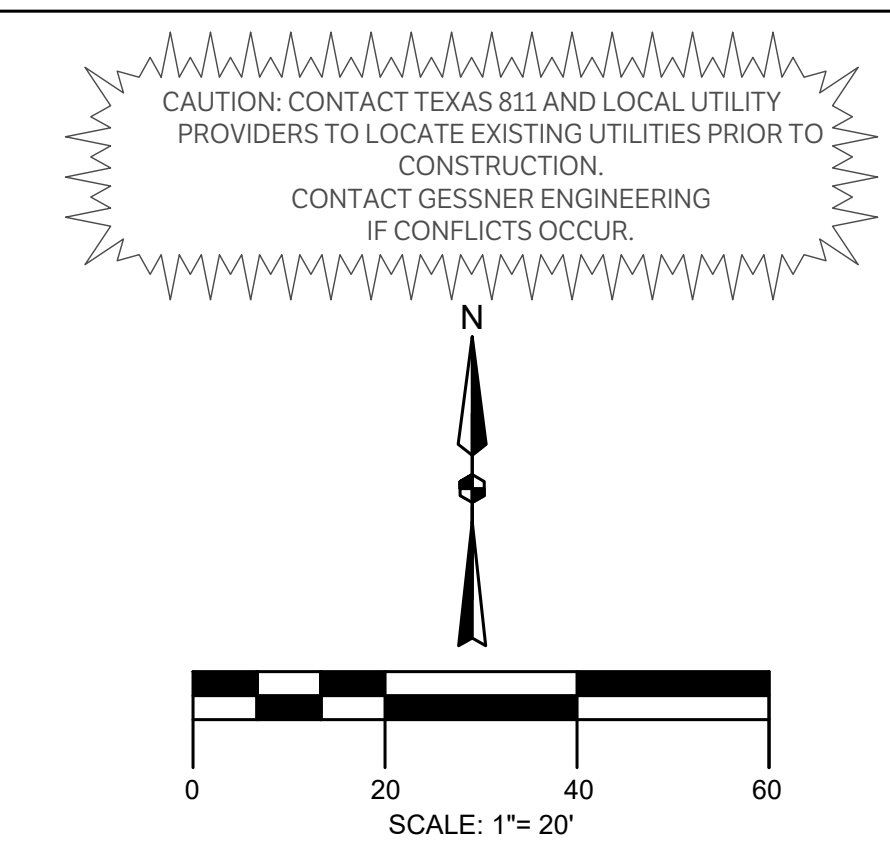
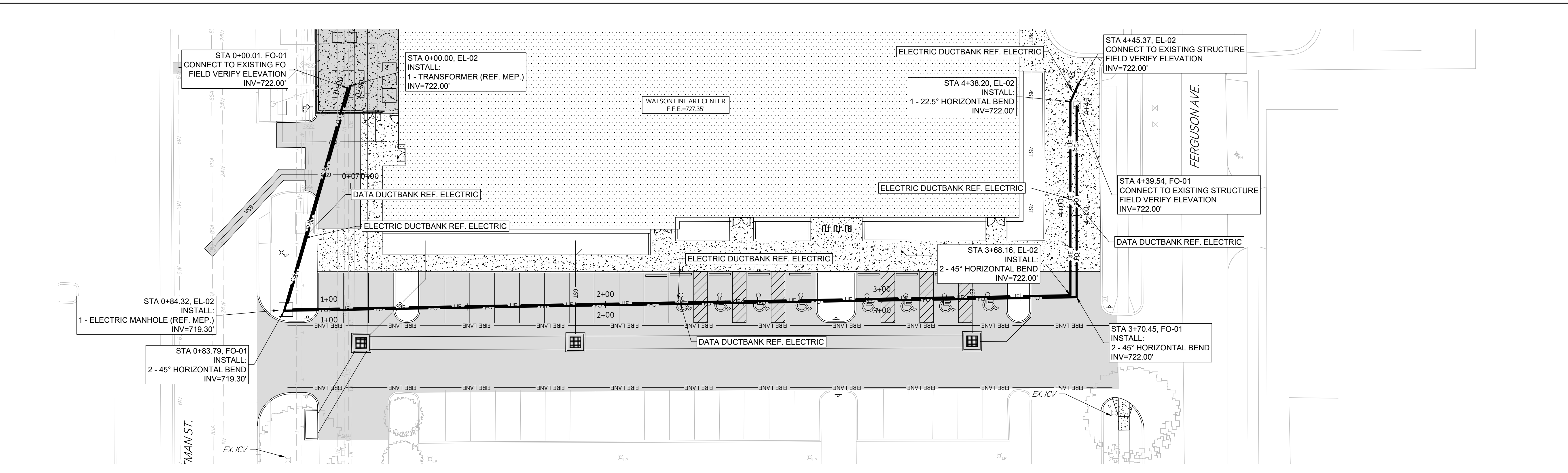
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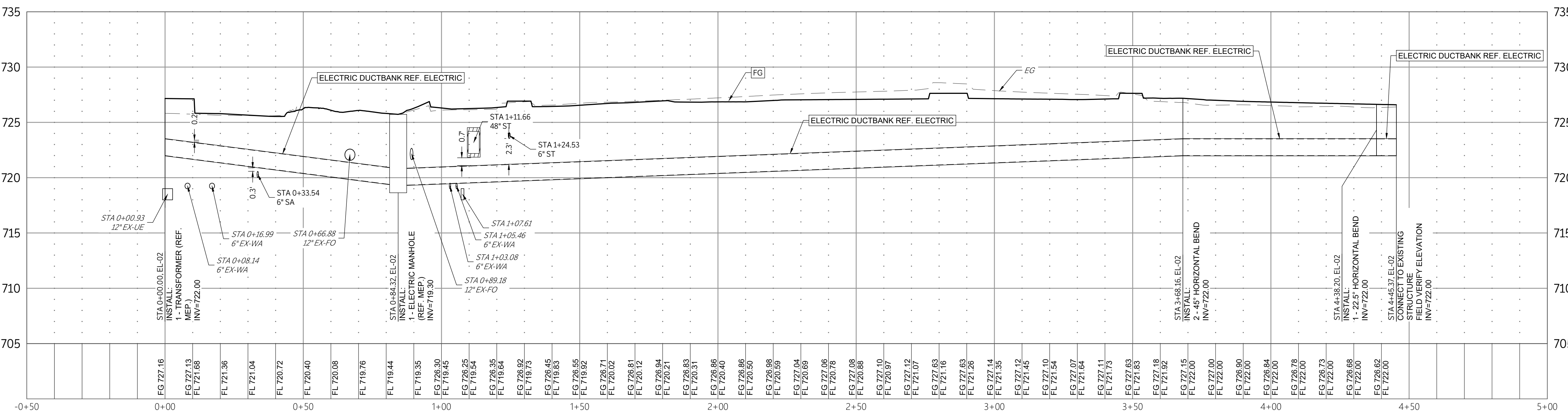
**LEGEND**

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

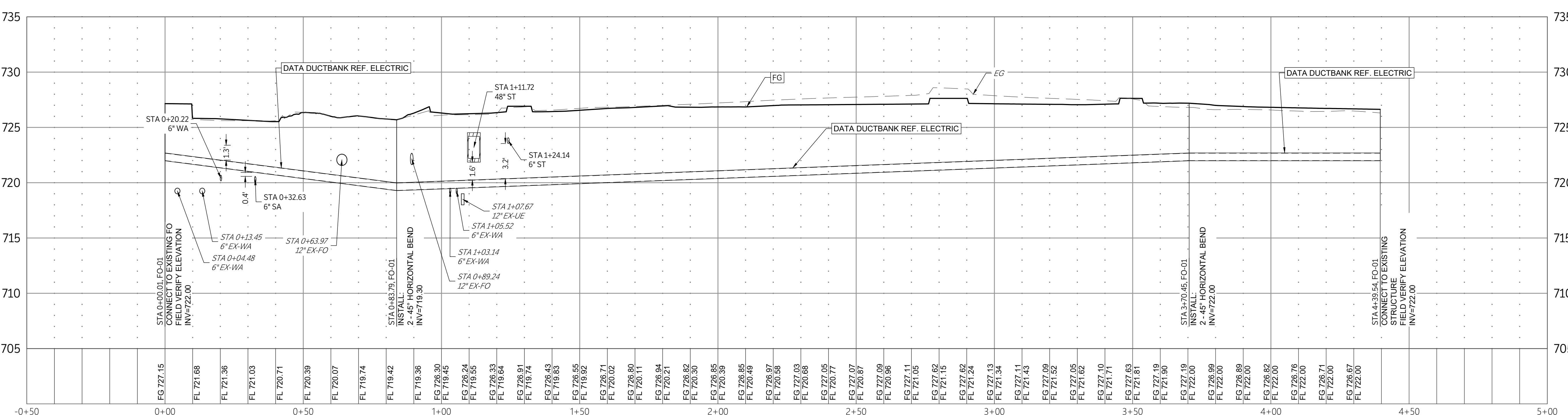
# ISSUE FOR CONSTRUCTION



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



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



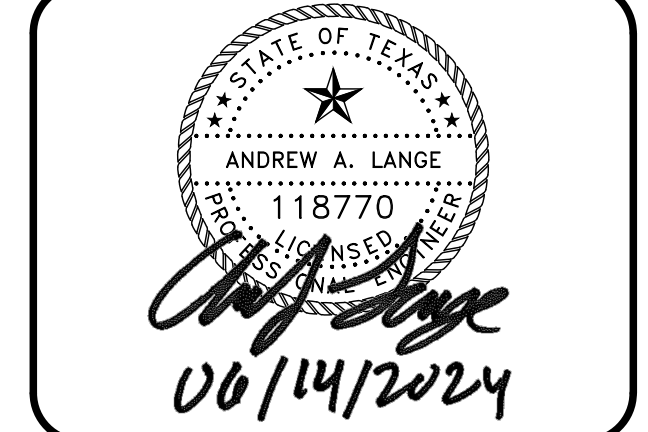
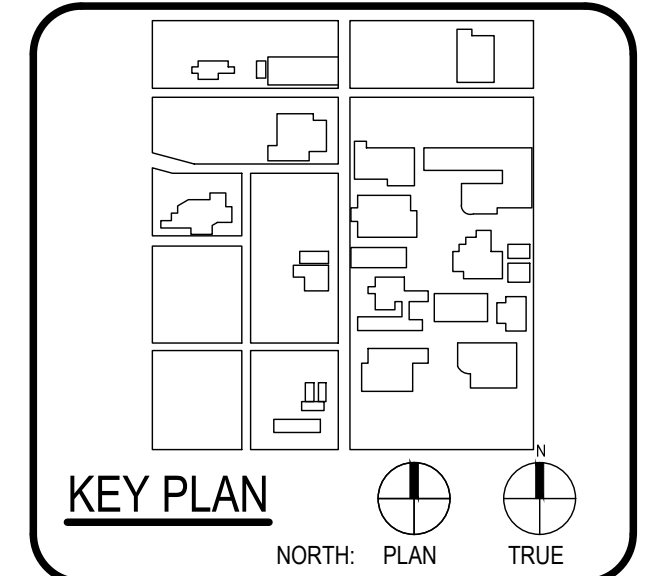
FO-01  
SCALE: 1"=20' H, 1"=5' V

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



ARCHITECT	PBK Architects, Inc.
SAN ANTONIO 601 N.W. Loop 410, Suite 400 San Antonio, TX 78216 210-829-0123 P 210-829-0578 F TX Firm BR 1608	
ASSOCIATE ARCHITECT	BA ARCHITECTS
1310 BRUNNEN LANDSCAPE DESIGN & CONSTRUCTION 1113 W. 34th Street San Antonio, TX 78207 210-341-9922 LUNNY & HARRIS ENGINEERING 1113 W. 34th Street San Antonio, TX 78207 210-341-9922 MEYER ENGINEERING 1113 W. 34th Street San Antonio, TX 78207 210-341-9922	

## WFAC Black Box Addition PKG 1



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

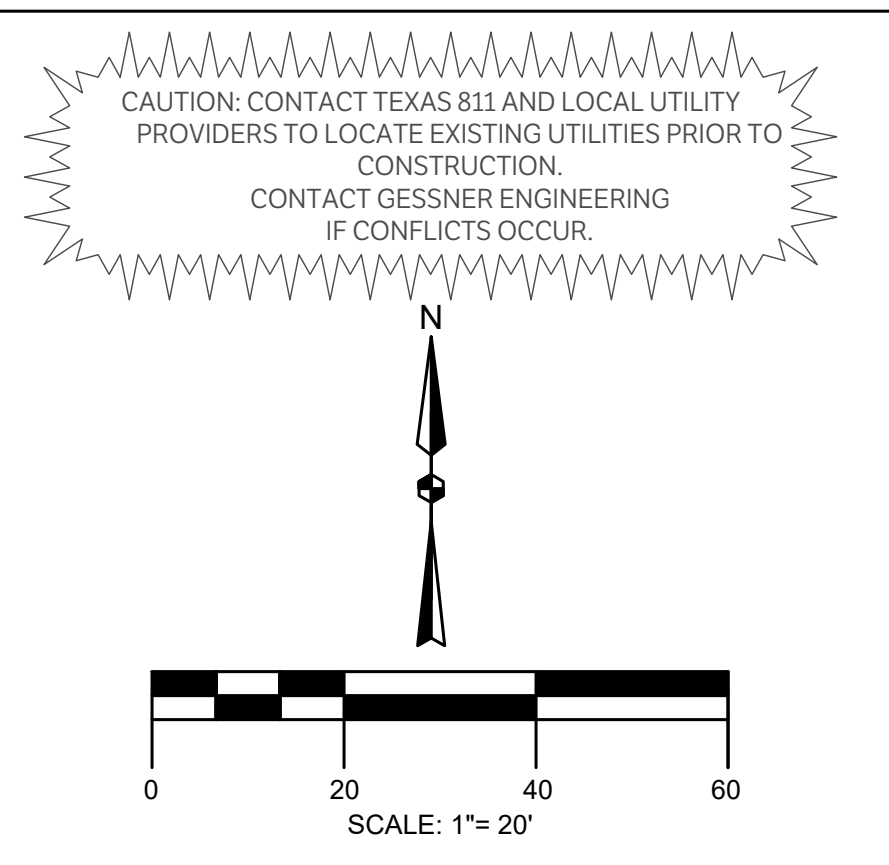
ISSUE FOR CONSTRUCTION  
BUILDING NUMBER

## ELEC. & COMMS PLAN & PROFILES

# C700

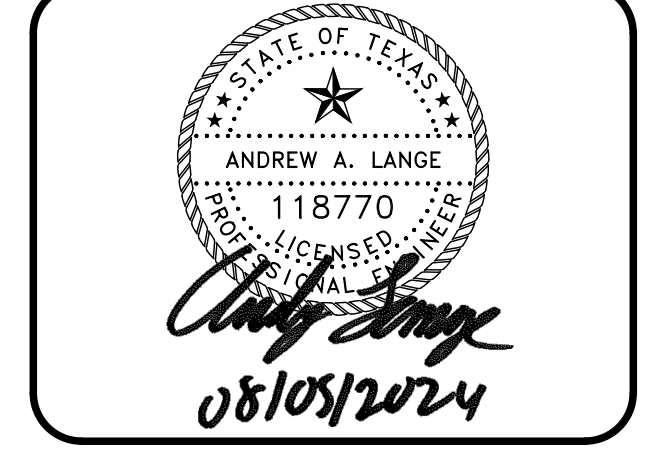
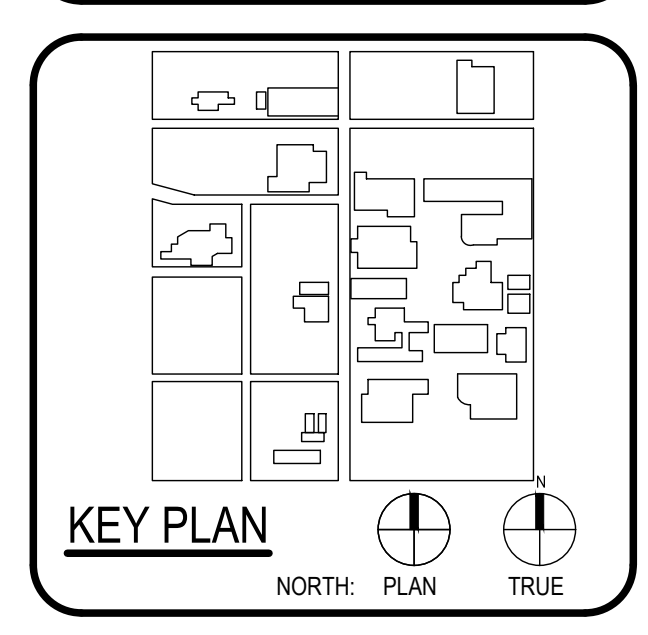
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FOR BLUEBAM LABELING CORR.

# ISSUE FOR PERMIT



ARCHITECT	PBK Architects, Inc.
PROJECT	WFAC Black Box Addition
DATE	08/05/2024
SCALE	1"=20'
PROJECT NO.	230462
DATE	08/05/2024
DESCRIPTION	ADDENDUM 1

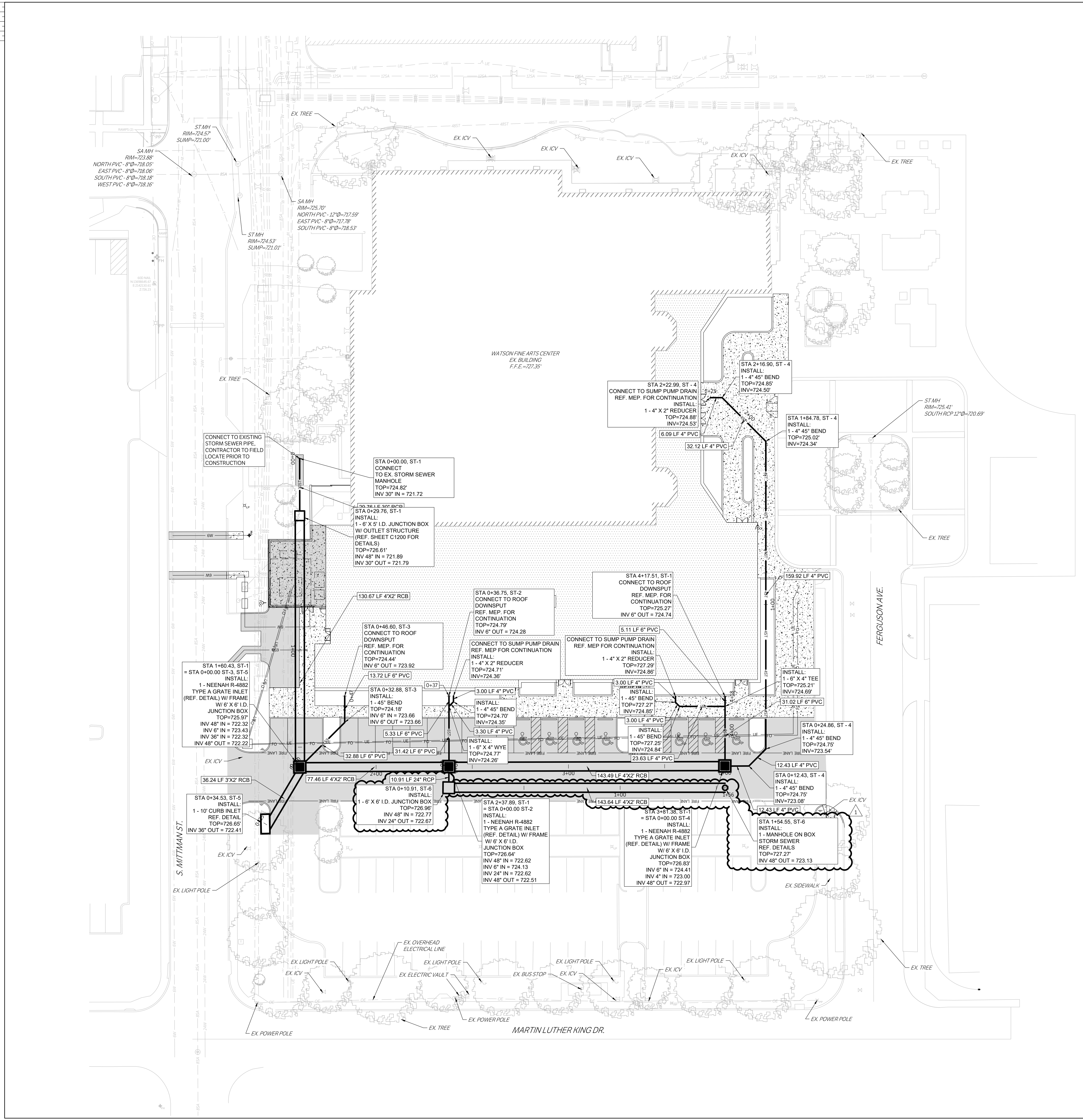
PROPOSED ASPHALT PAVEMENT	PROPOSED STRUCTURAL PAVEMENT	PROPOSED 4" CONCRETE SIDEWALK	PROPOSED BUILDING
EXISTING PAVEMENT EDGE	PROPERTY LINE	EXISTING EASEMENT	PROPOSED EASEMENT
EXISTING CONTOURS	PROPOSED CONTOURS	EX.   PROP. STORM LINE	EX.   PROP. WATER LINE
EX.   PROP. SANITARY SEWER LINE	EXISTING THERMALS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



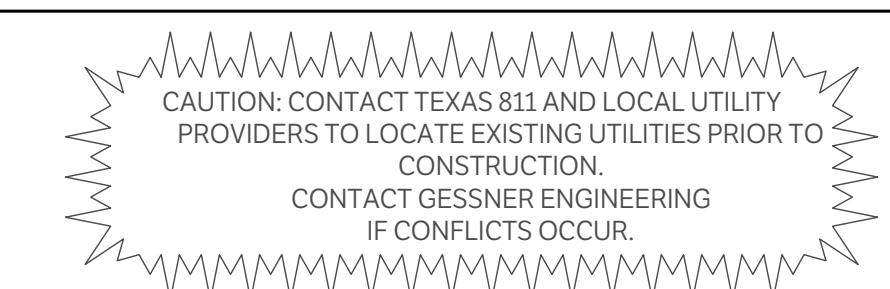
CLIENT	Alamo Colleges	
DATE	2024/06/12	
PROJECT NUMBER	230462	
DRAWING HISTORY		
No.	Description	Date
1	ADDENDUM 1	08/05/2024

ISSUE FOR PERMIT  
BUILDING NUMBER

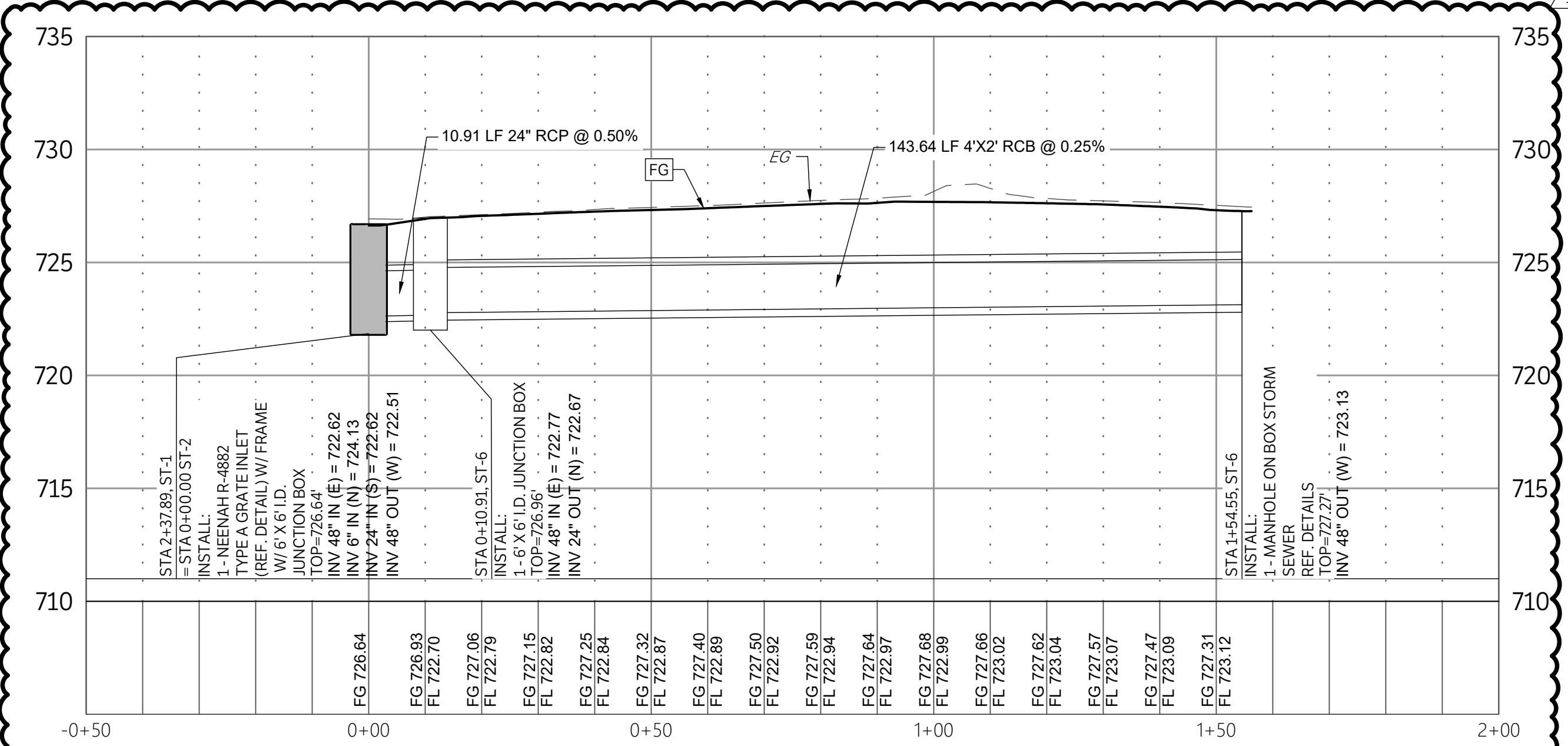
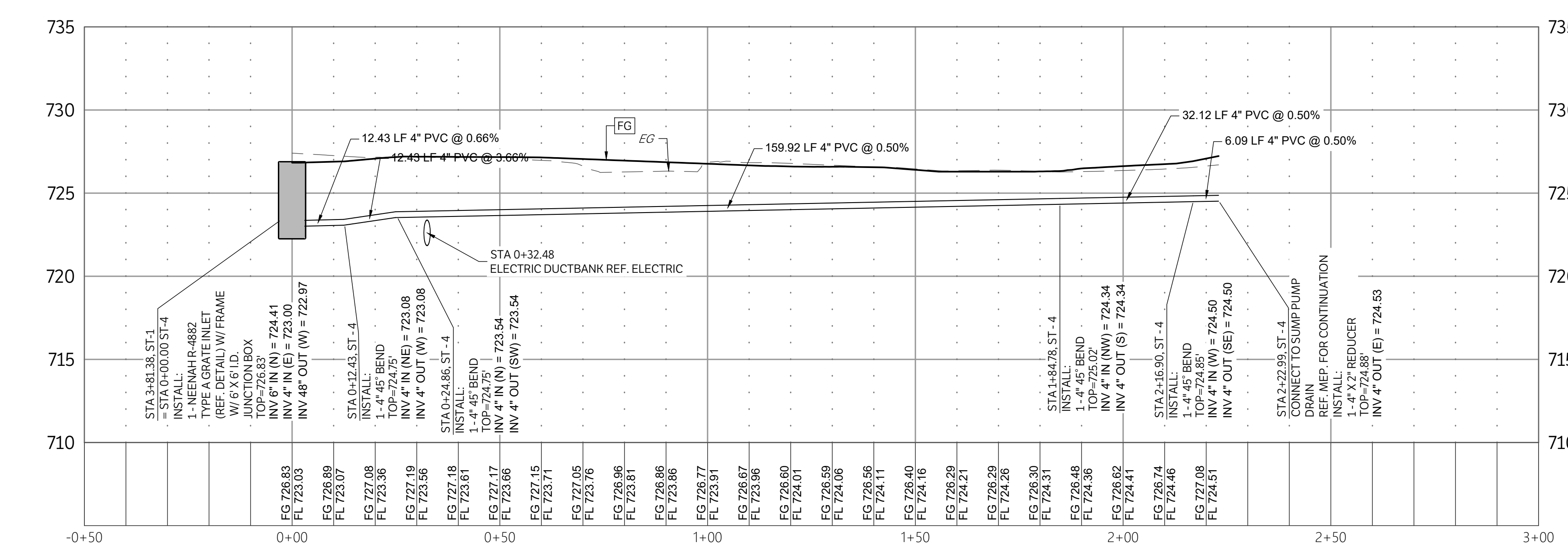
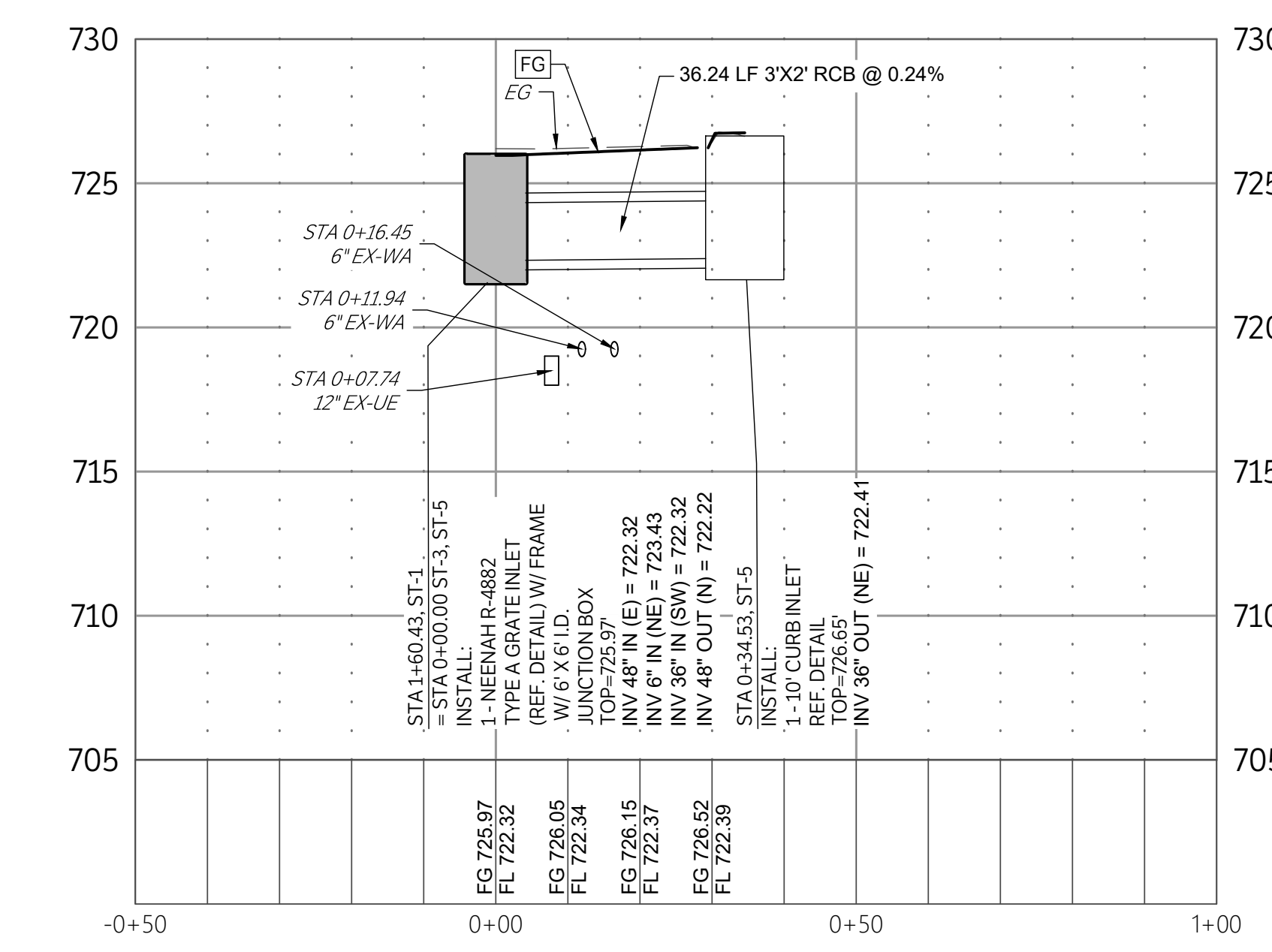
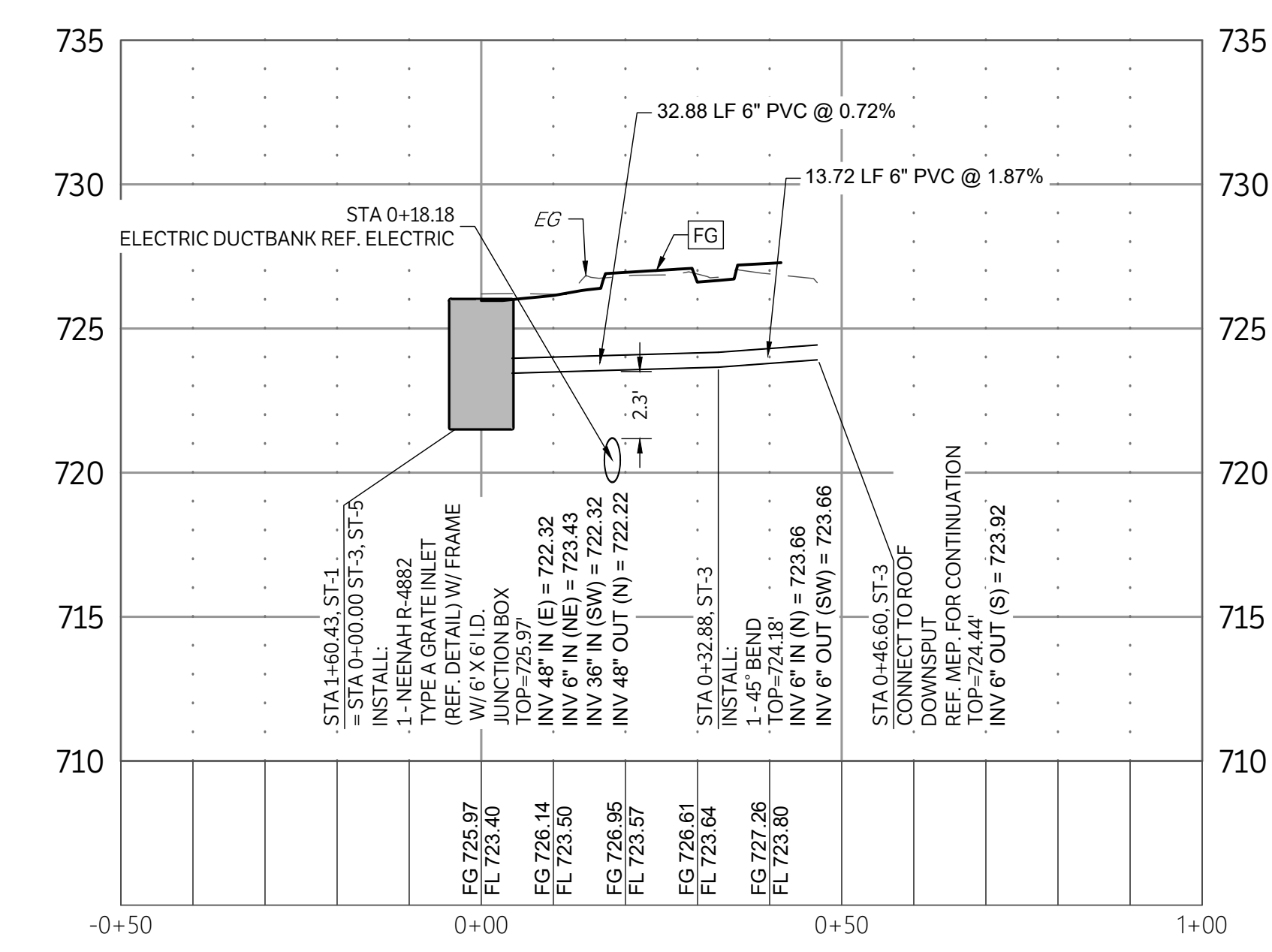
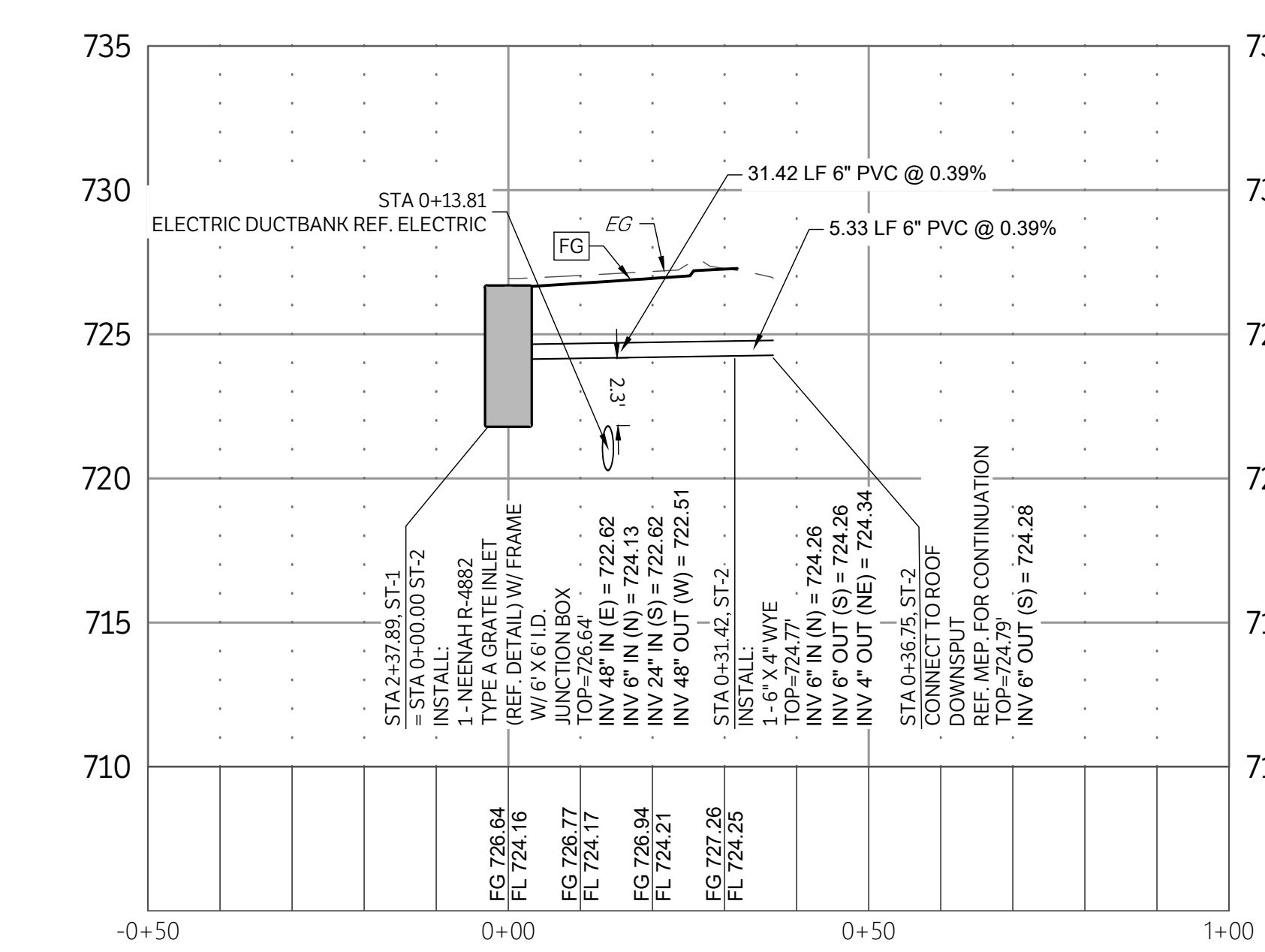
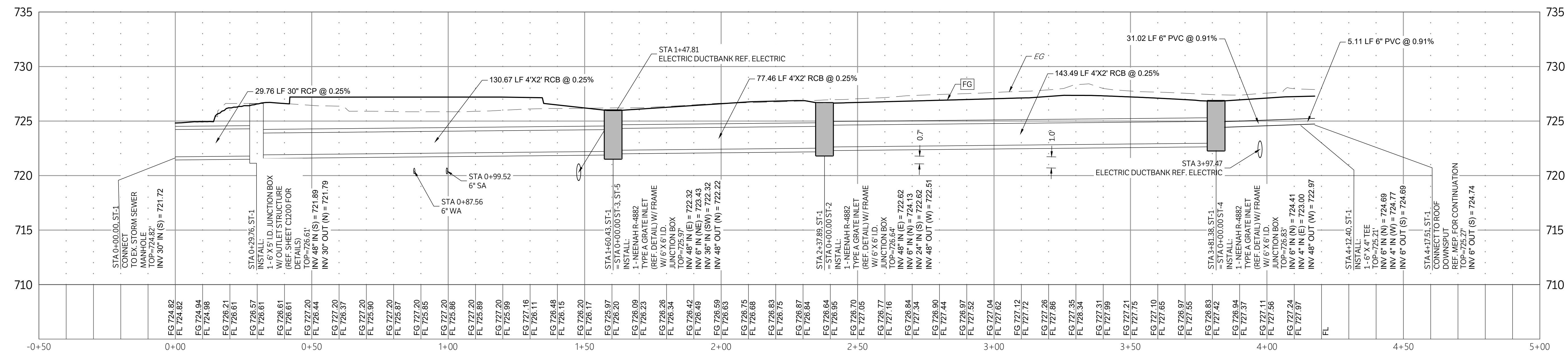
STORM PLAN  
C800



CHECKED BY: SH & AL  
DRAWN BY: JC

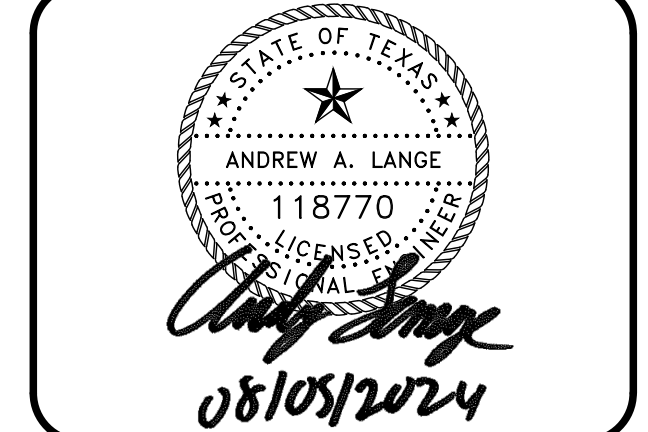
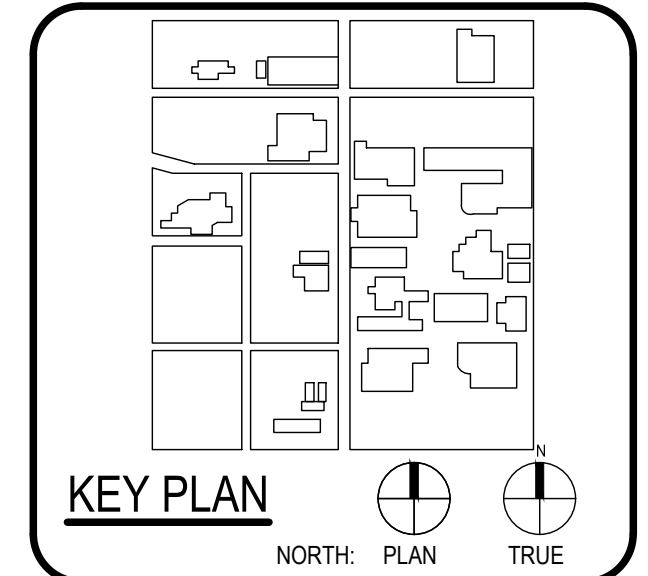
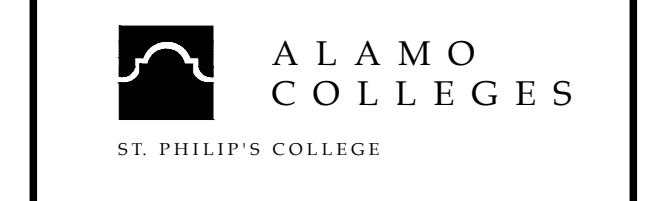


ARCHITECT	PBK Architects, Inc.
601 N.W. Loop 410, Suite 400 San Antonio, TX 78216 210-829-0123 P 210-829-0578 F TX Firm BR 1608	
PROFESSIONAL ENGINEER	GESSNER ENGINEERING
13100 N. Loop West, Suite 100 Dallas, TX 75244 214-343-8888	
PROFESSIONAL LANDSCAPE ARCHITECT	LANDSCAPE ARCHITECTURE
11111 N. Loop West, Suite 100 Dallas, TX 75244 214-343-8888	
PROFESSIONAL ENGINEER	UNIVERSITY ENGINEERING
11111 N. Loop West, Suite 100 Dallas, TX 75244 214-343-8888	
PROFESSIONAL ENGINEER	PROFESSIONAL ENGINEER
11111 N. Loop West, Suite 100 Dallas, TX 75244 214-343-8888	



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

WFAC Black Box Addition PKG 1



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

ISSUE FOR PERMIT  
BUILDING NUMBER



# ISSUE FOR PERMIT

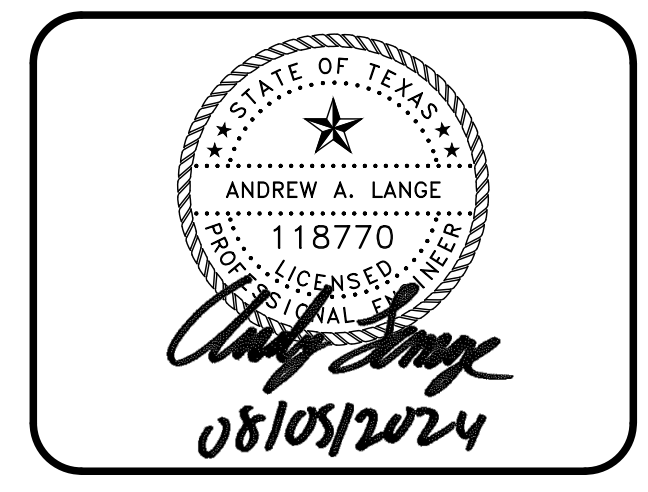
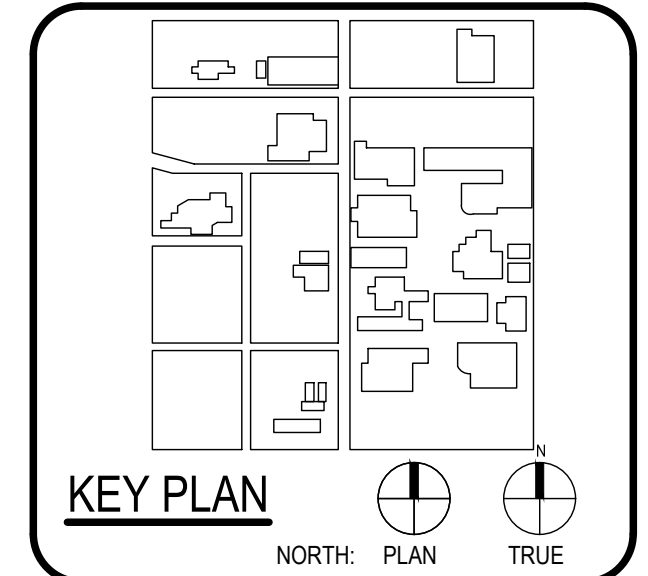
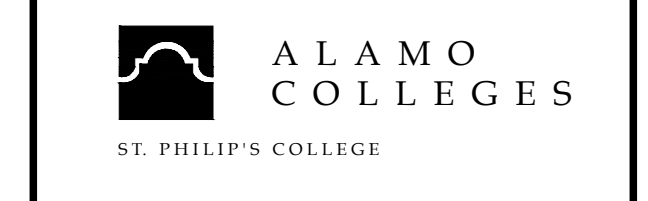
Sheet Grids Template  
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FOR BLUEBAM LABELING.COR.

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



ARCHITECT	PBK Architects, Inc.
SAN ANTONIO 601 N.W. Loop 410, Suite 400 San Antonio, TX 78216 210-829-0123 P 210-829-0578 F TX Firm BR 1608	
ARCHITECT	BA & ARCHITECTS
2101 BRUNNEN CELEBRITY LANDSCAPE DESIGN GROUP 1133400000 1133400000 LUNDY & HARRIS ENGINEERING 1133400000 1133400000 1133400000 1133400000 1133400000 1133400000 1133400000 1133400000	

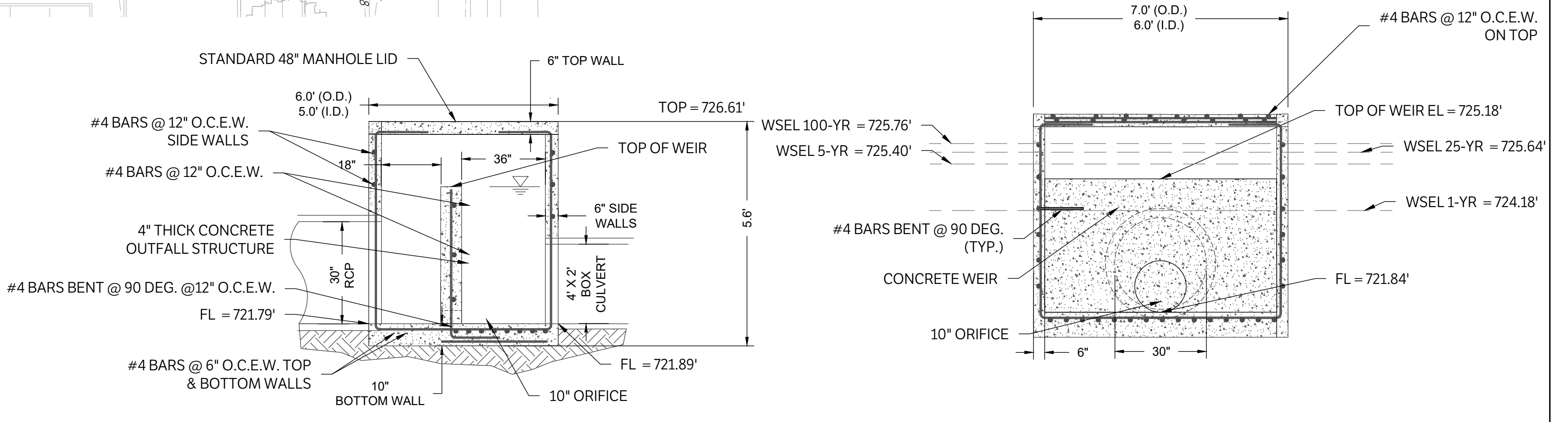
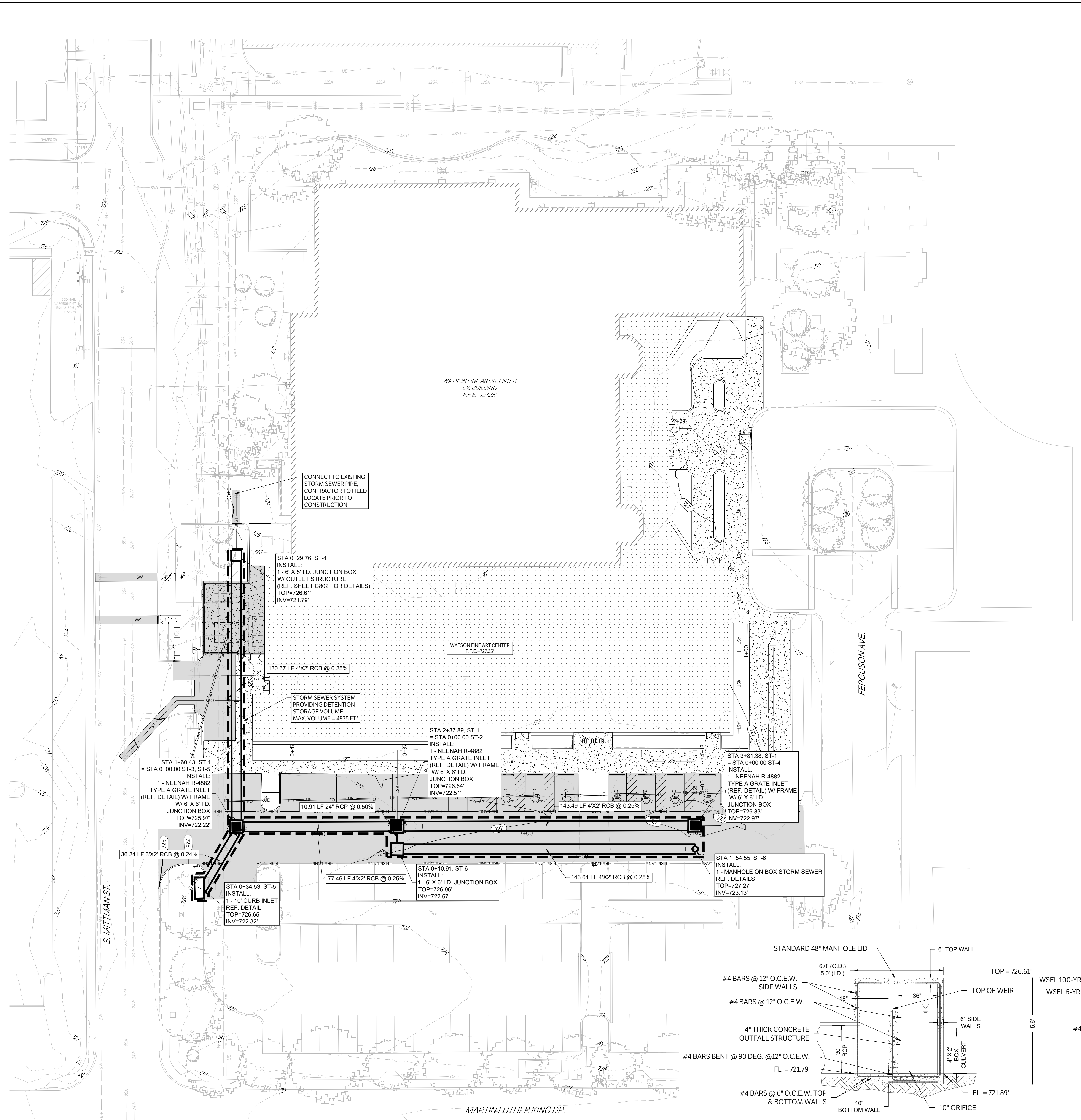
WFAC Black Box Addition PKG 1



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

ISSUE FOR PERMIT  
BUILDING NUMBER

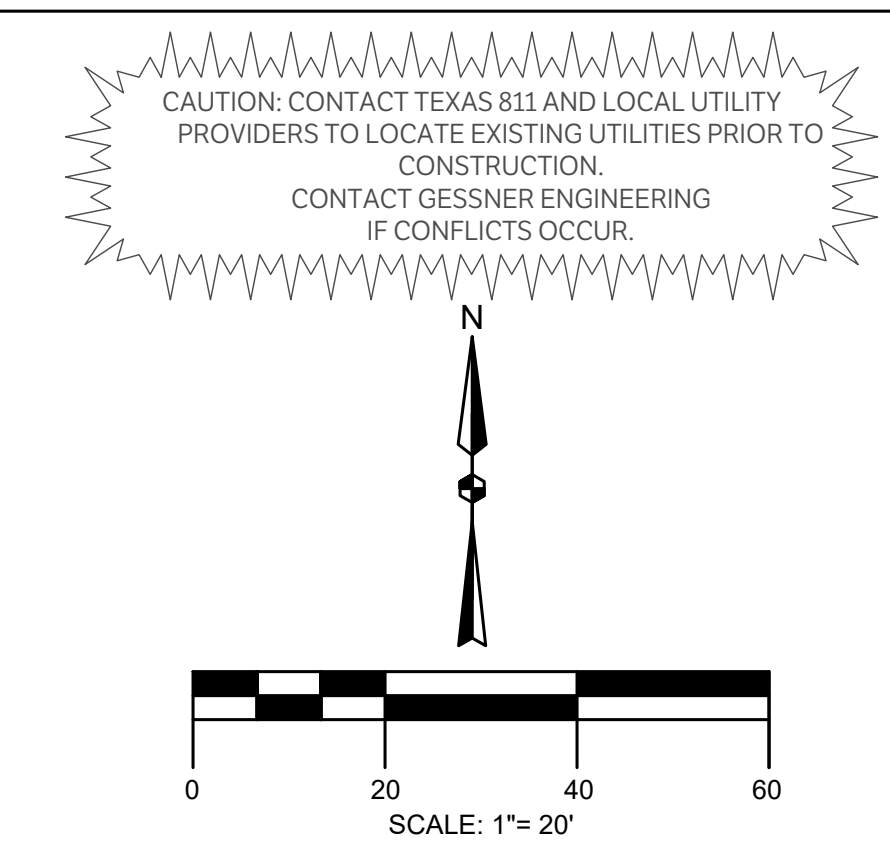
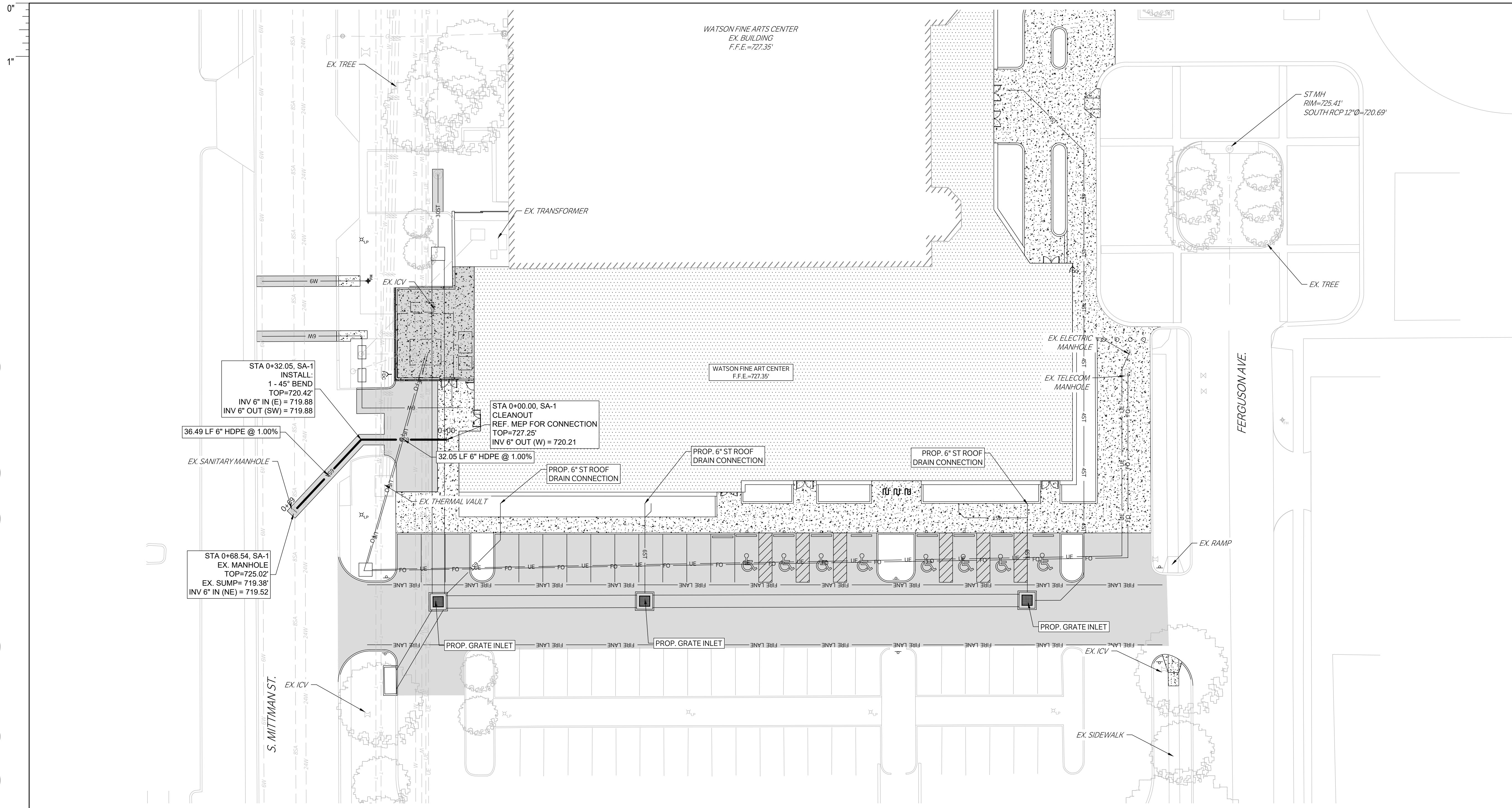
DETENTION PLAN  
**C802**



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

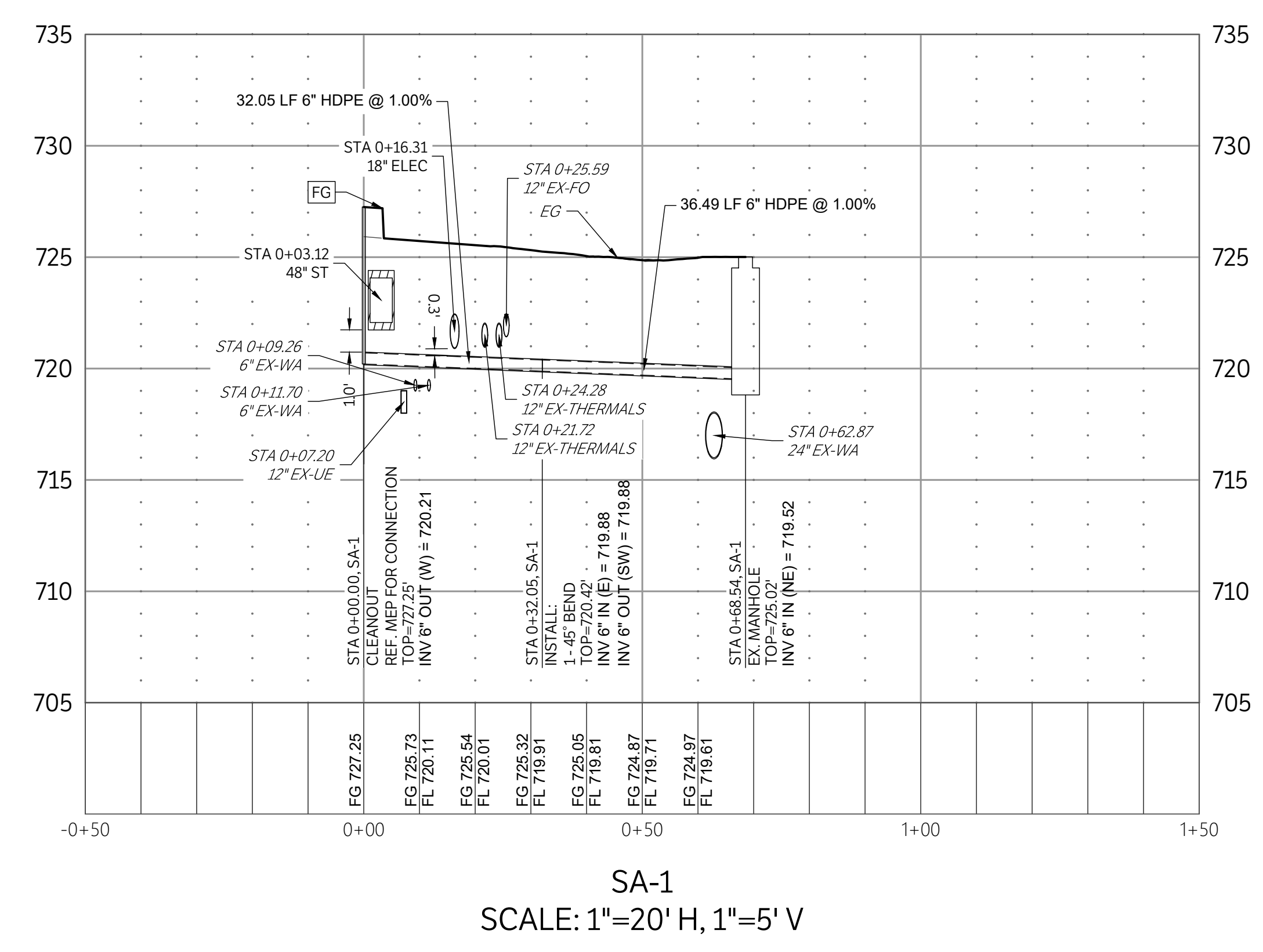
CHECKED BY:  
SH & AL  
DRAWN BY:  
JC

ISSUE FOR CONSTRUCTION



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

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

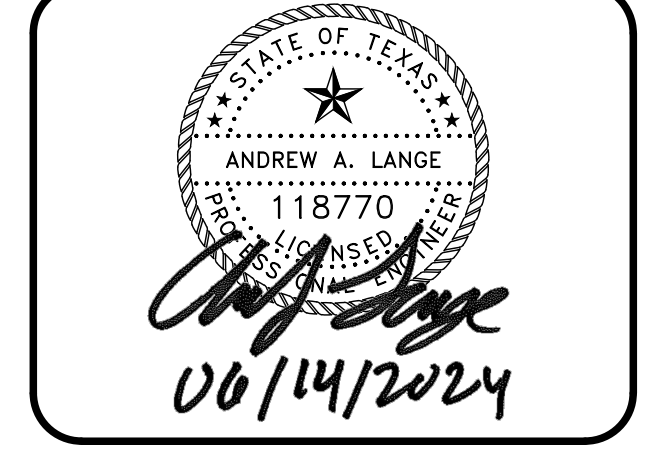
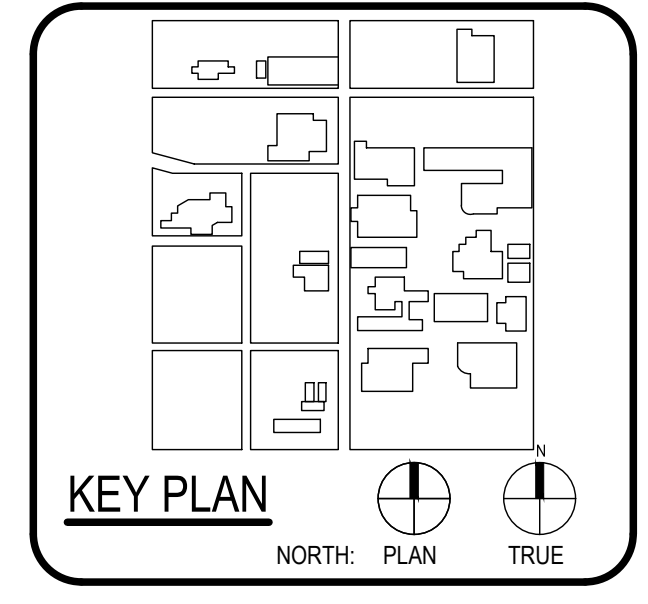


SA-1  
SCALE: 1"=20' H, 1"=5' V



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

WFAC Black Box Addition PKG 1



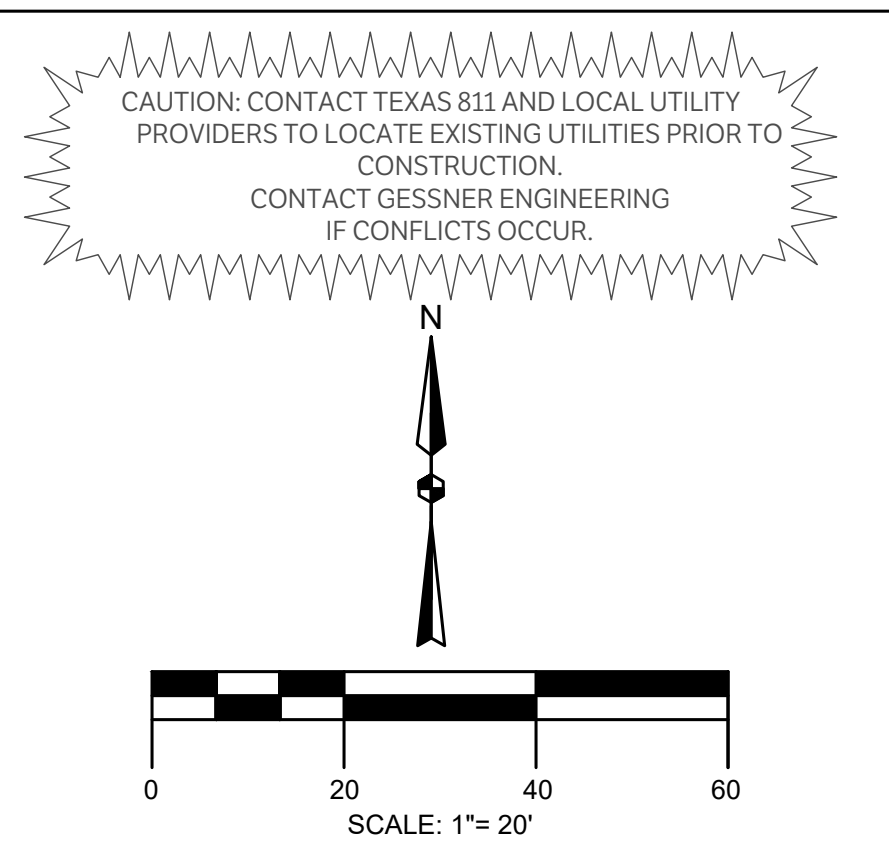
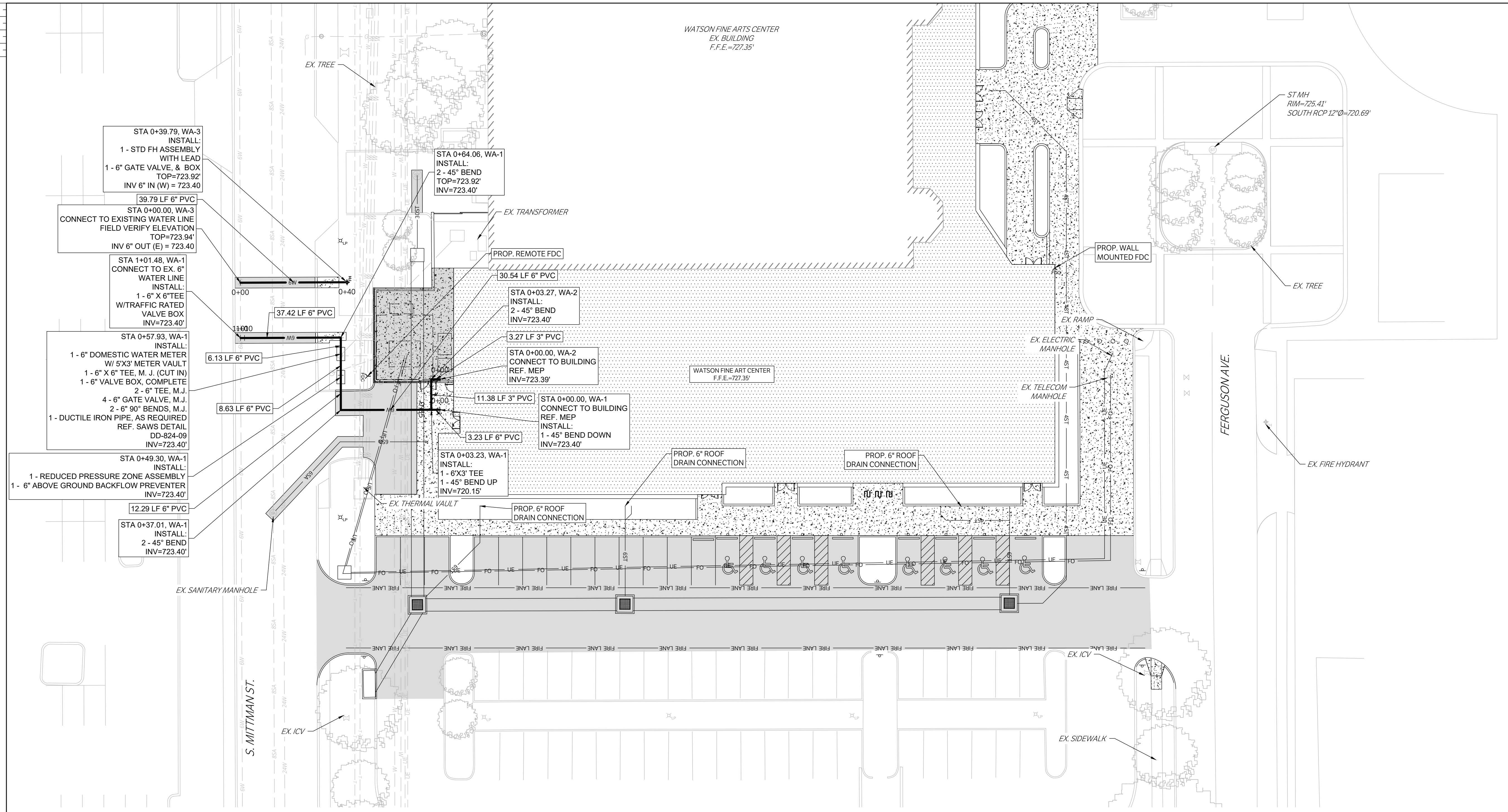
CLIENT		
Alamo Colleges	PROJECT NUMBER	
DATE	230462	
2024/06/12		
DRAWING HISTORY		
No.	Description	Date

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

**C900**

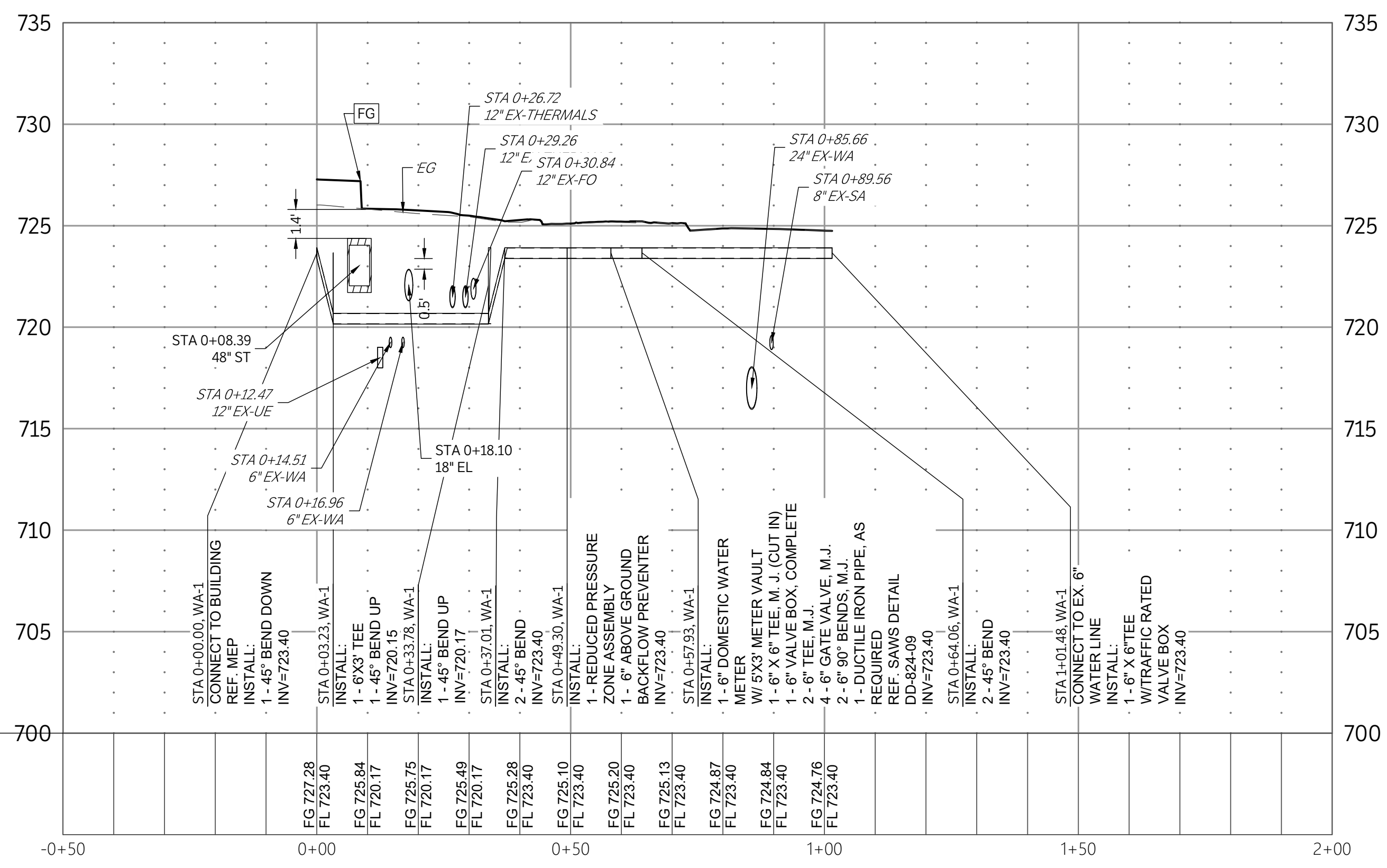
CHECKED BY:  
SH & AL  
DRAWN BY:  
JC

# ISSUE FOR CONSTRUCTION

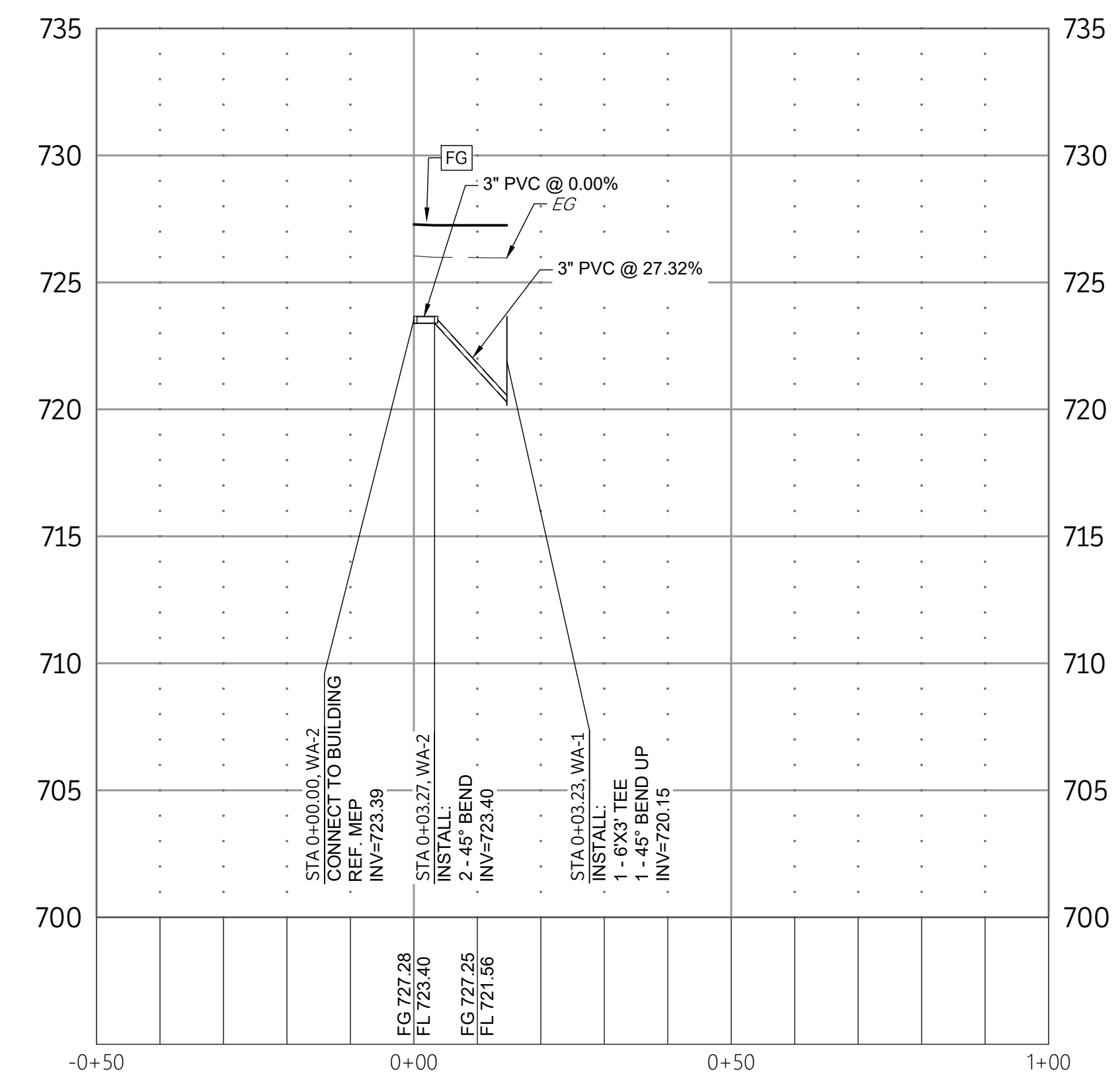


NOTE:  
CONTRACTOR TO FIELD VERIFY EXISTING  
UTILITY INVERTS PRIOR TO CONSTRUCTION

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



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



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

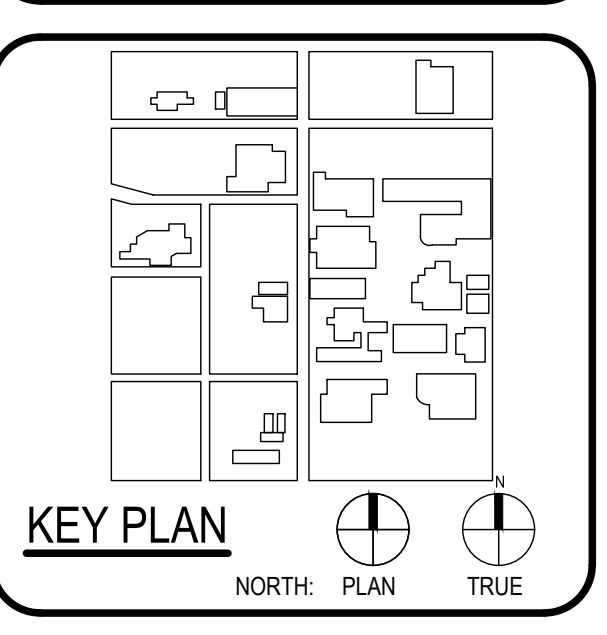
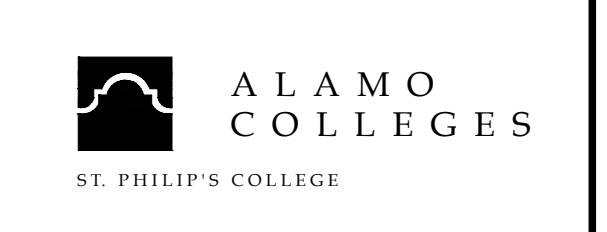


ARCHITECT  
SAN ANTONIO  
601 N.W. Loop 410, Suite 400  
San Antonio, TX 78216  
210-829-0123 P  
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TX Firm BR 1608

WFAC Black Box Addition PKG 1

600 S Miltman St.  
San Antonio, TX 78203

ISSUE FOR CONSTRUCTION



118770  
06/14/2024

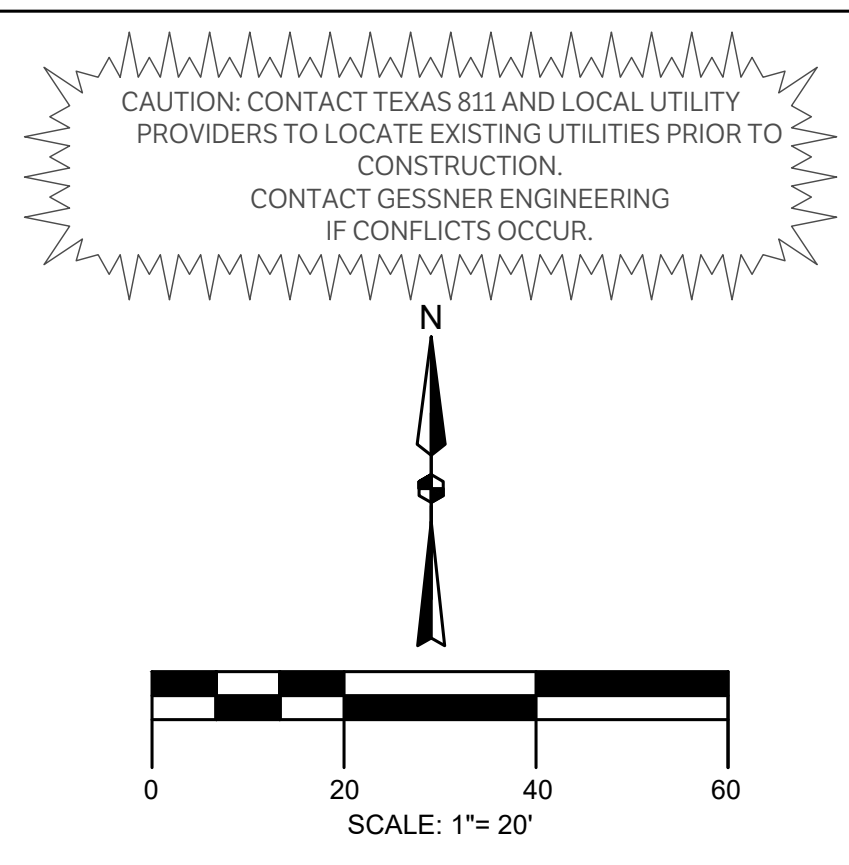
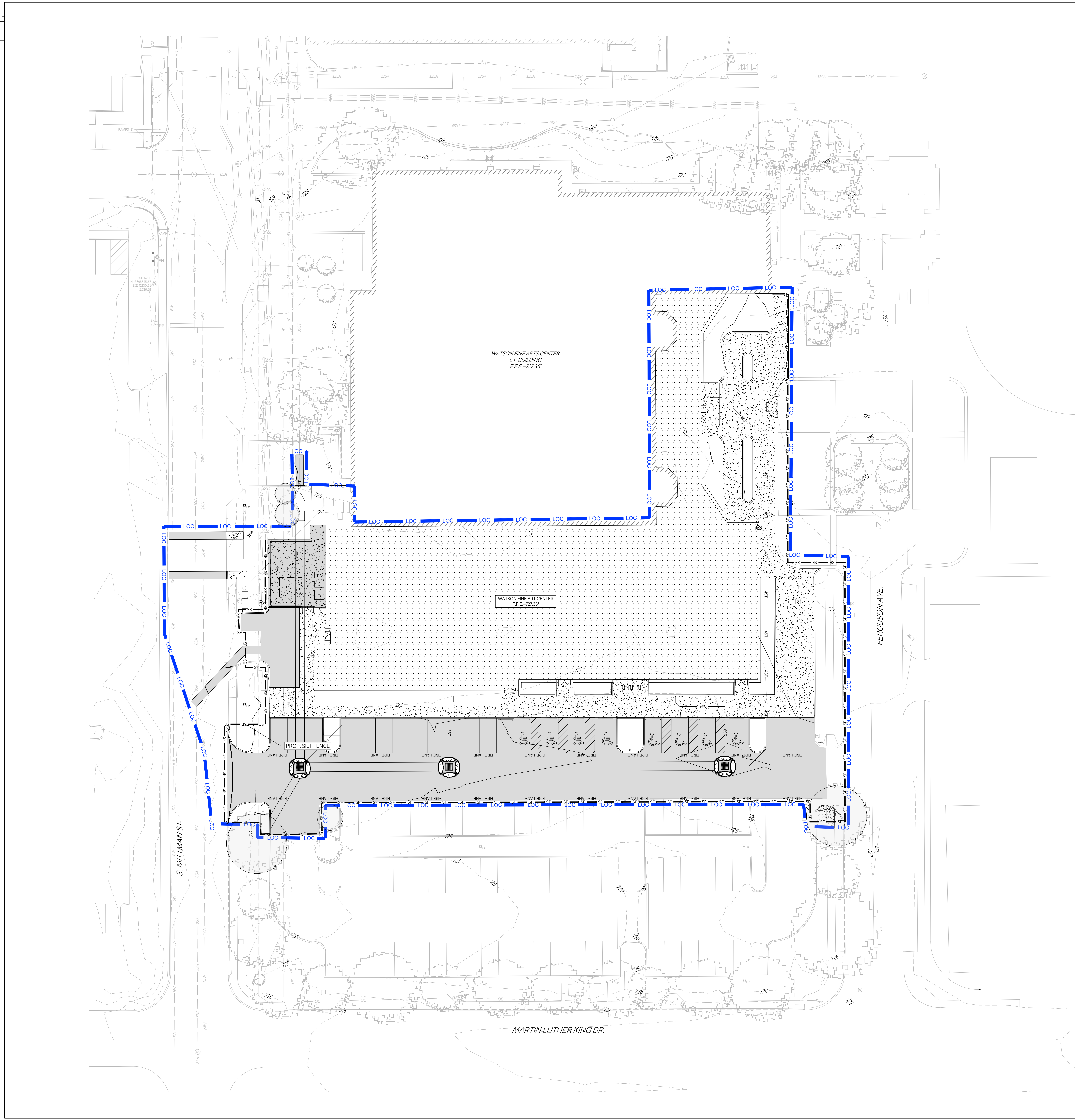
CLIENT		
Alamo Colleges	PROJECT NUMBER	
DATE	230462	
2024/06/12		
DRAWING HISTORY		
No.	Description	Date

ISSUE FOR CONSTRUCTION

WATER PLAN & PROFILES

C1000

# ISSUE FOR CONSTRUCTION



**LEGEND**

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

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

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

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

**SOIL INFORMATION**  
HYDROLOGIC SOIL GROUP: D

**POST DEVELOPED SITE CONDITIONS**  
LAND USE: HIGHER EDUCATION  
ACADEMIC BLDG

**NATURE OF ACTIVITIES**  
ACADEMIC BLDG

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

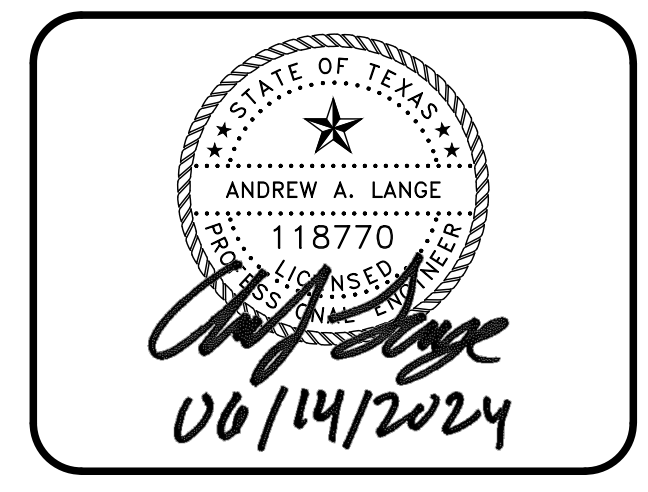
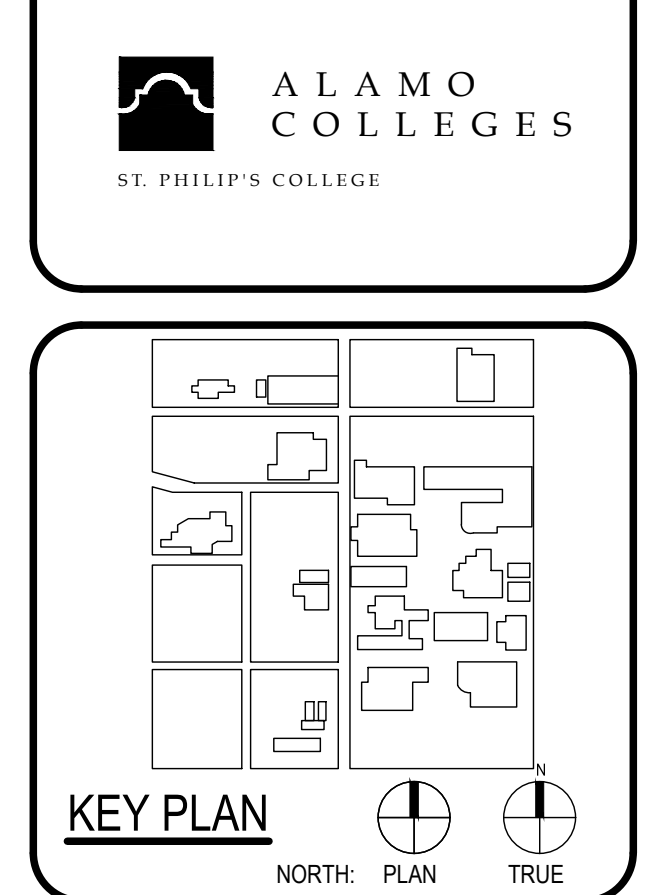
- GENERAL EROSION CONTROL NOTES**
1. ALL UTILITIES AND SERVICE LINES SHOWN ARE TAKEN FROM RECORD INFORMATION SUPPLIED BY THE UTILITY OWNER OR HORIZONTALLY LOCATED BY INDEPENDENT LOCATORS. CONTRACTOR IS RESPONSIBLE TO REPORT ANY CONFLICTS BETWEEN PLAN AND ACTUAL CONDITIONS PRIOR TO CONSTRUCTION. OWNER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



ARCHITECT	PBK Architects, Inc.
601 N.W. Loop 410, Suite 400 San Antonio, TX 78216 210-829-0123 P 210-829-0578 F TX Firm BR 1608	
ASSOCIATE ARCHITECT	BA ARCHITECTS
1711 W. Loop West Suite 100 San Antonio, TX 78201 210-441-0992 TX Firm BR 1608	
LANDSCAPE ARCHITECT	LUNY & HARRIS ENGINEERING
1711 W. Loop West Suite 100 San Antonio, TX 78201 210-441-0992 TX Firm BR 1608	
PROVIDER	MEAN PROFESSIONALS
1711 W. Loop West Suite 100 San Antonio, TX 78201 210-441-0992	

**WFAC Black Box Addition PKG 1**

ST. PHILLIP'S COLLEGE  
600 S Mittman St.  
San Antonio, TX 78203  
ISSUE FOR CONSTRUCTION



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

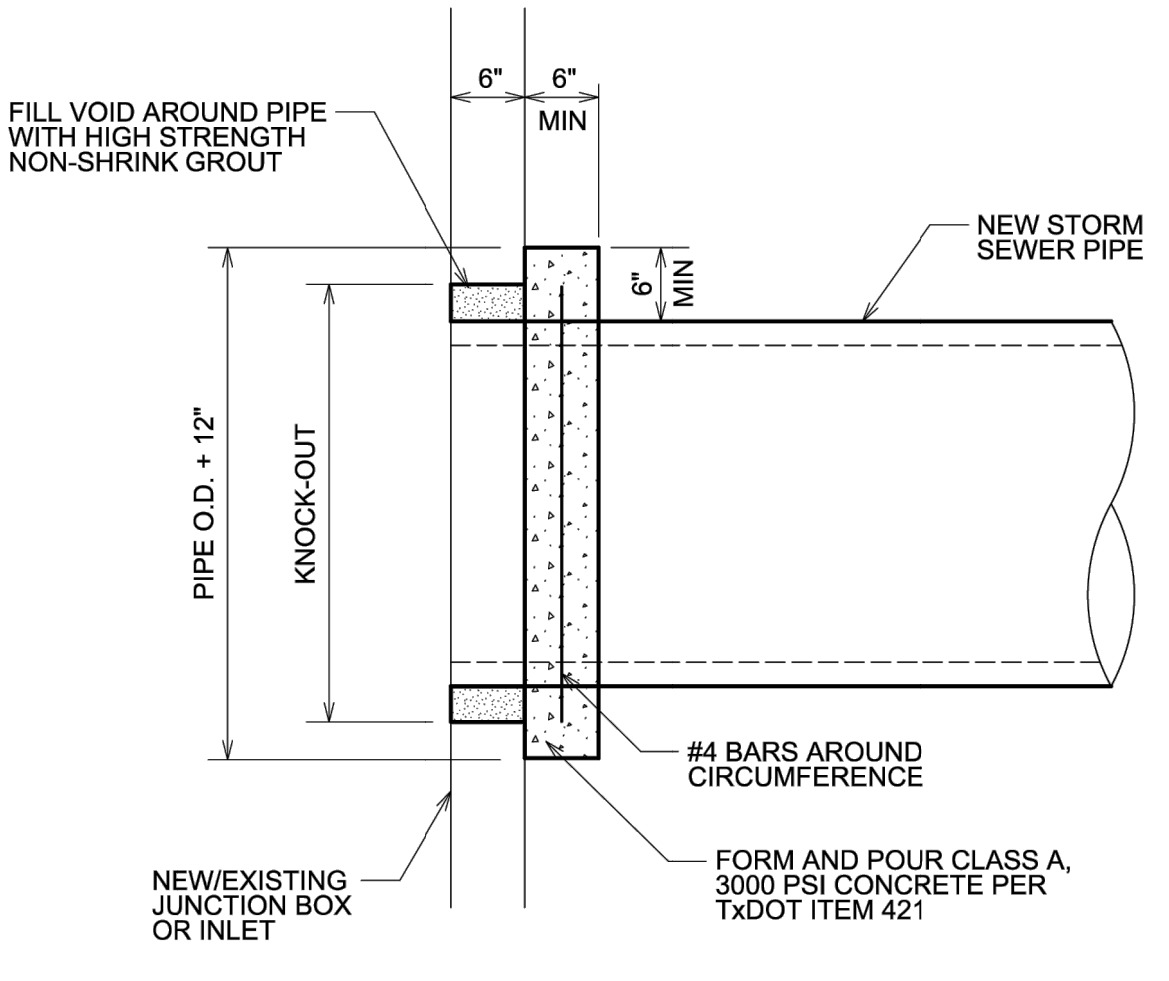
**ISSUE FOR CONSTRUCTION**  
BUILDING NUMBER

**EROSION CONTROL**

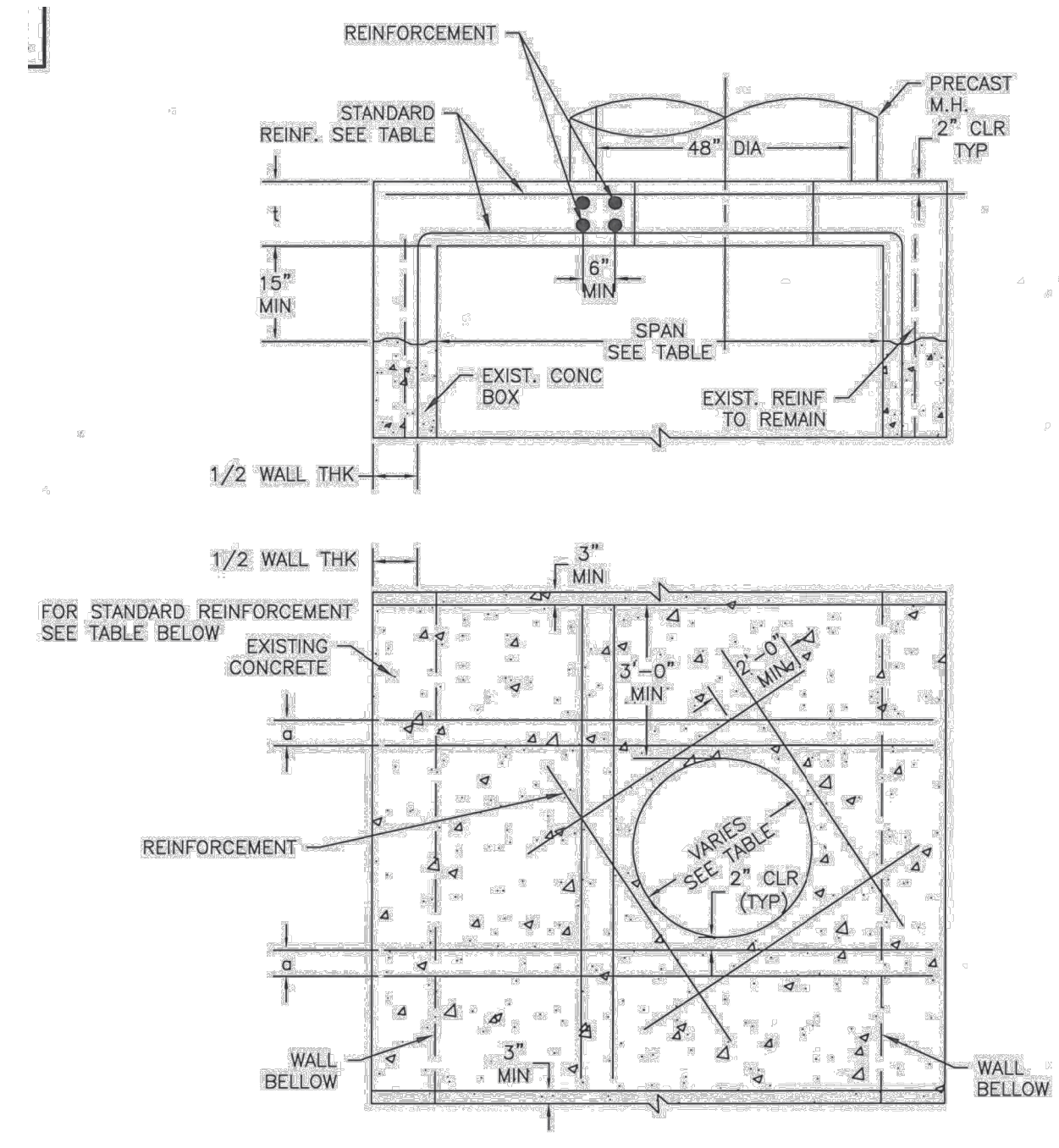
**C1100**

**GENERAL NOTES**

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



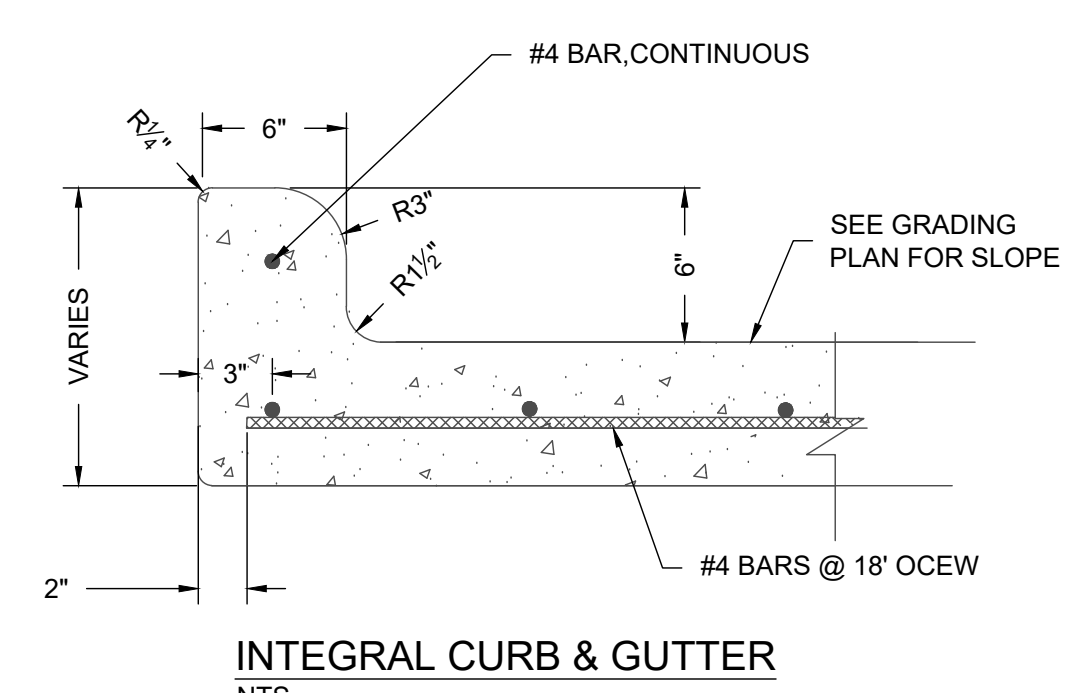
**GRAouted STORM SEWER CONNECTION DETAIL**  
NTS



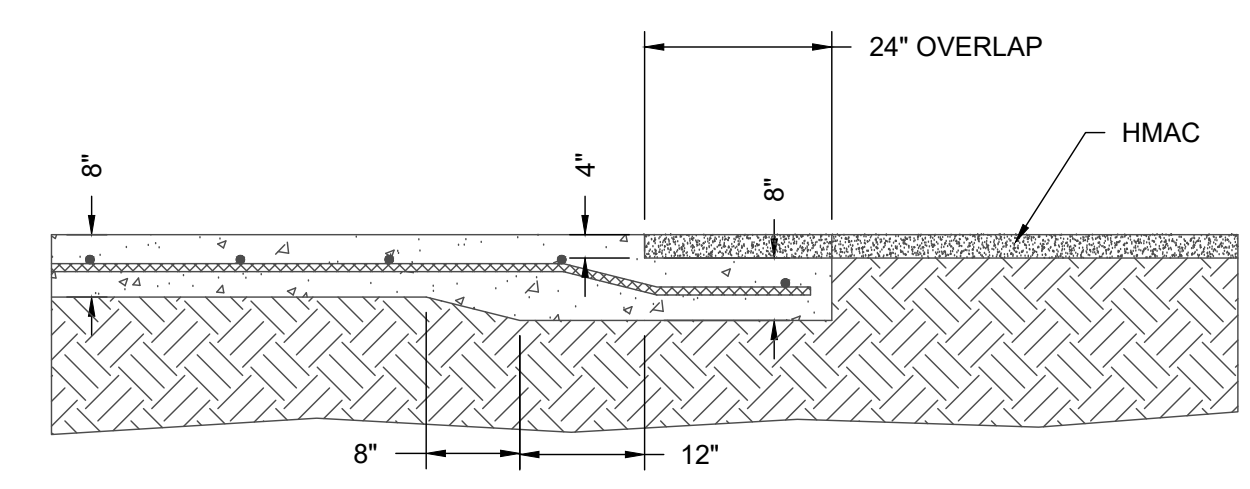
**PROPOSED MANHOLE ON EXISTING BOX STORM SEWER**  
NTS

**TABLE**  
SEWER SIZE VS. OPENING

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

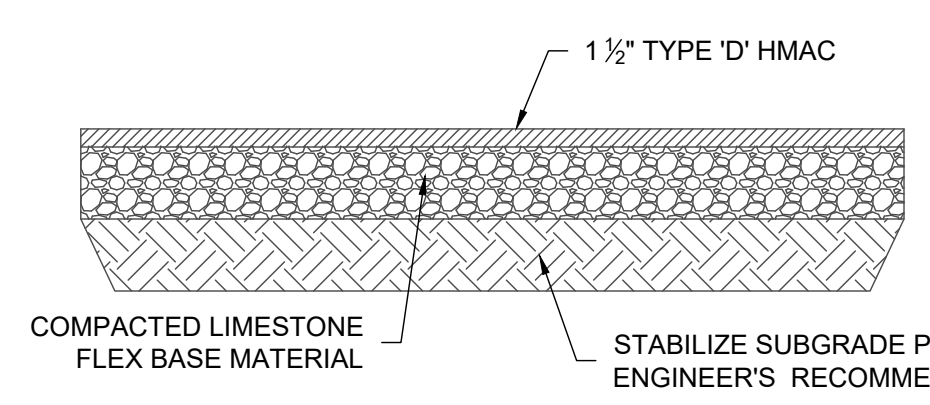


**INTEGRAL CURB & GUTTER**  
NTS

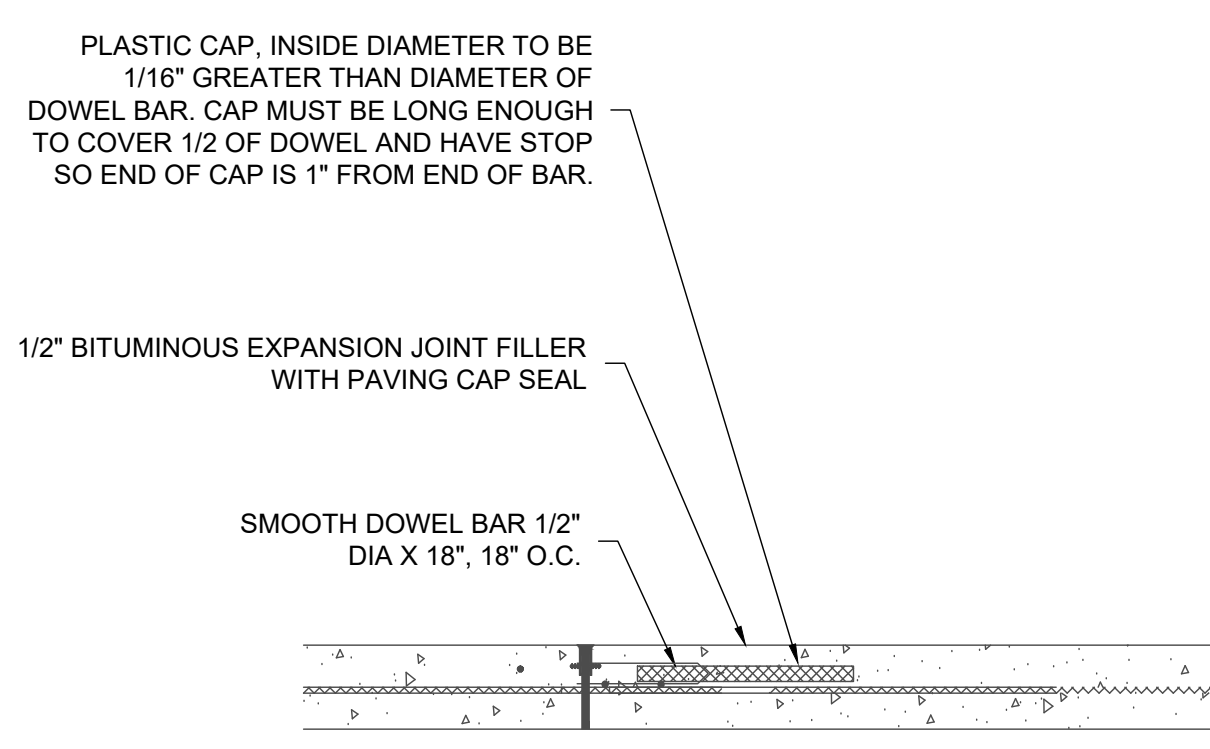


NOTE: SEE PLAN C-X-X FOR JOINT LOCATIONS

**CONCRETE TO ASPHALT J-JOINT**  
NTS

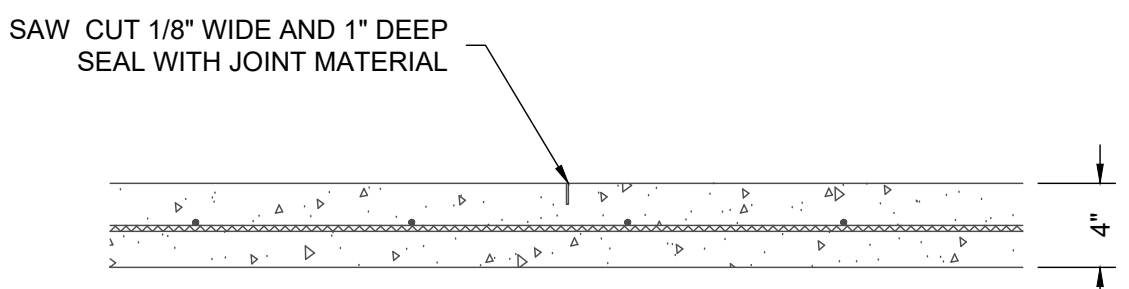


**1 1/2" HMAc PAVEMENT**  
NTS



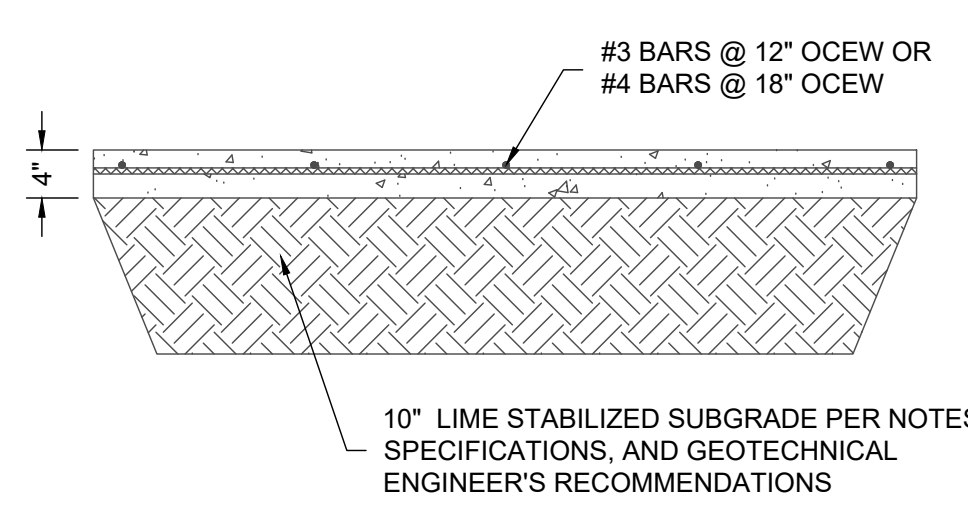
NOTE: SIDEWALK EXPANSION JOINTS SHALL BE INSTALLED AS SHOWN ON PLANS

**SIDEWALK EXPANSION JOINT**  
NTS



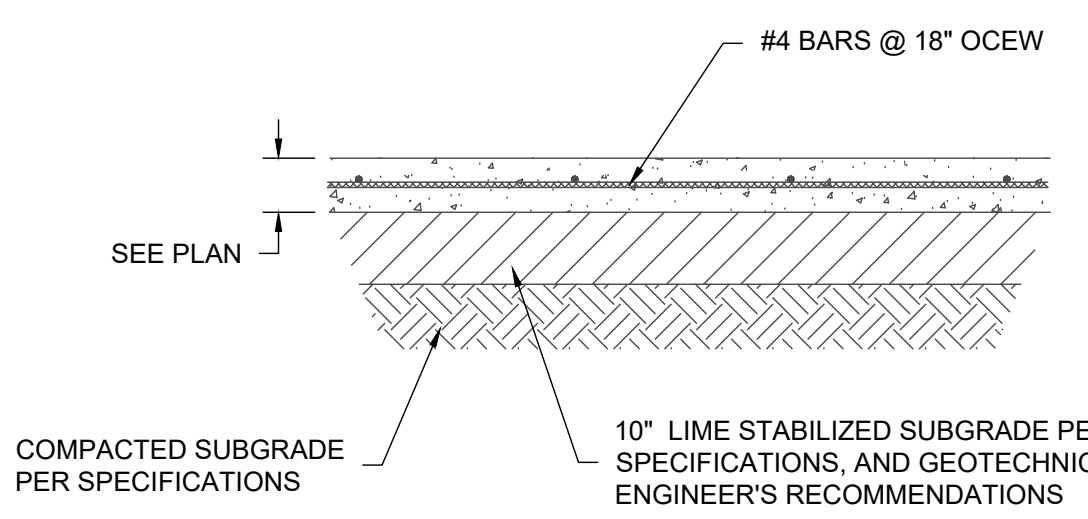
NOTE: SIDEWALK JOINT SPACING PER LANDSCAPE ARCHITECT OR JOINT PLAN. IF NOT SPECIFIED, SPACING SHALL BE EQUAL TO SIDEWALK WIDTH WITH A MAXIMUM SPACING OF 8-FOOT.

**SIDEWALK CONTRACTION JOINT**  
NTS



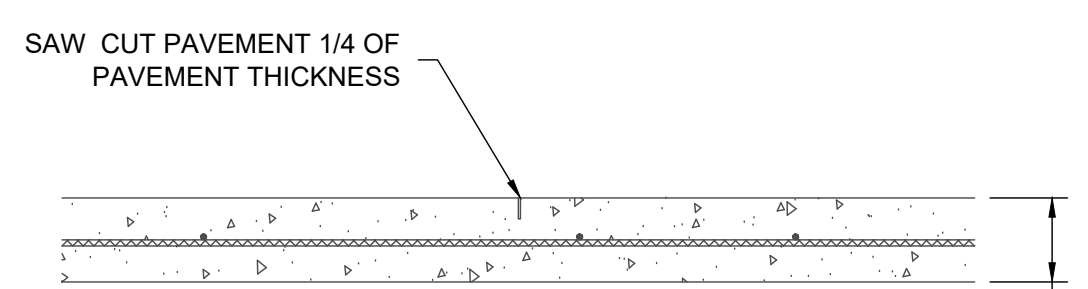
NOTES:  
1. SUBGRADE STABILIZATION SHALL BE PER GEOTECHNICAL RECOMMENDATIONS AND LIME/CEMENT SERIES BASED ON ACTUAL SUBGRADE CONDITIONS.  
2. SAW CUT OPERATIONS SHALL BEGIN AS SOON AS POSSIBLE AFTER CONCRETE PLACEMENT.  
3. SEAL ALL EXPANSION JOINTS WITH SEAL CAP AND CONTROL JOINTS WITH SELF LEVELING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

**SIDEWALK SECTION**  
NTS



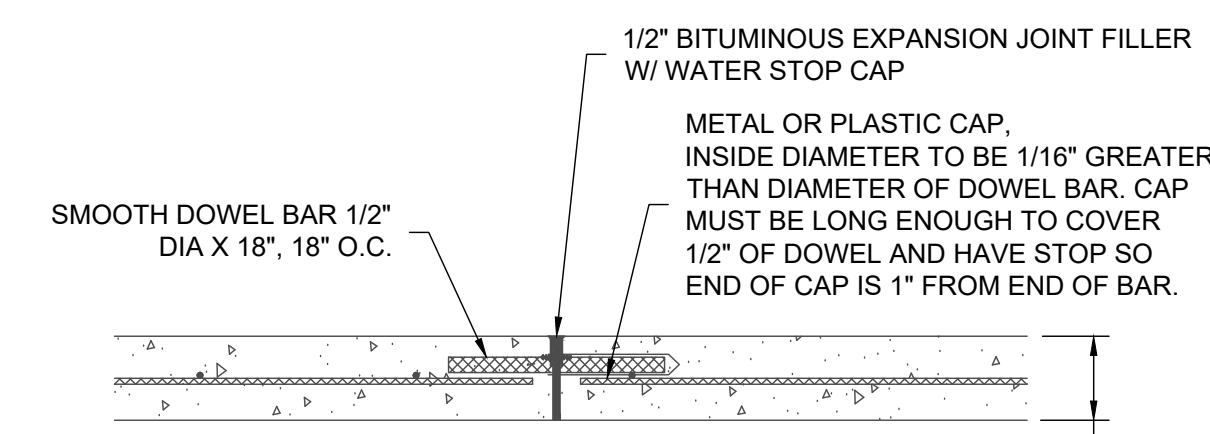
NOTES:  
1. SEE PLAN FOR JOINT SPACING, COMPRESSIVE STRENGTH, PAVEMENT THICKNESS, AND REINFORCING.  
2. DEPTH OF STABILIZATION SHALL BE A MINIMUM OF 6 INCHES OR BASED ON GEOTECHNICAL RECOMMENDATIONS SUBGRADE CONDITIONS.  
3. SUBGRADE STABILIZATION SHALL BE PER GEOTECHNICAL RECOMMENDATIONS AND LIME/CEMENT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

**CONCRETE PAVEMENT**  
NTS

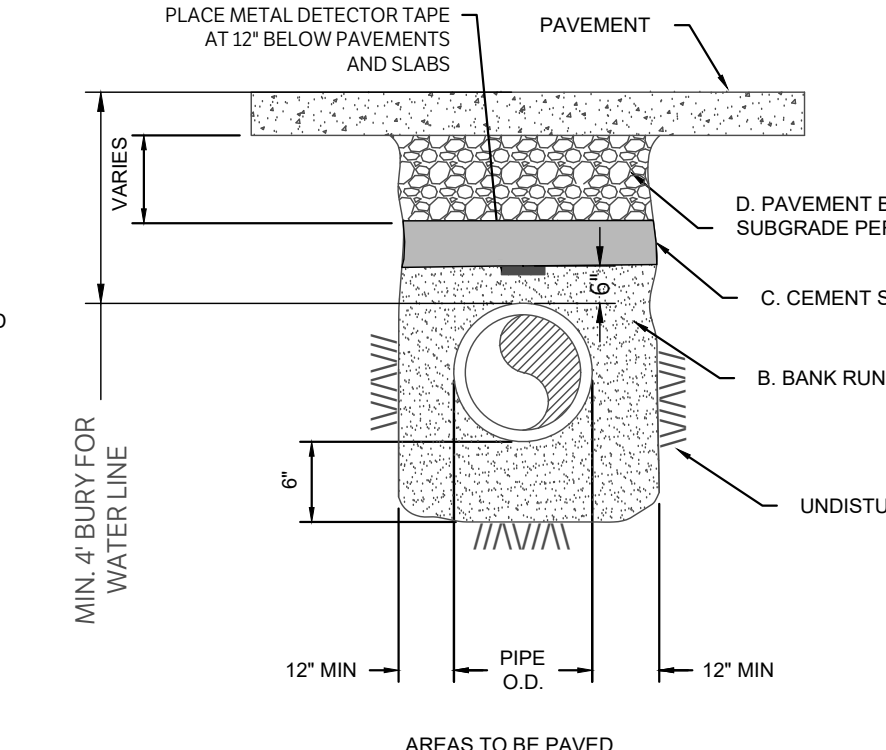
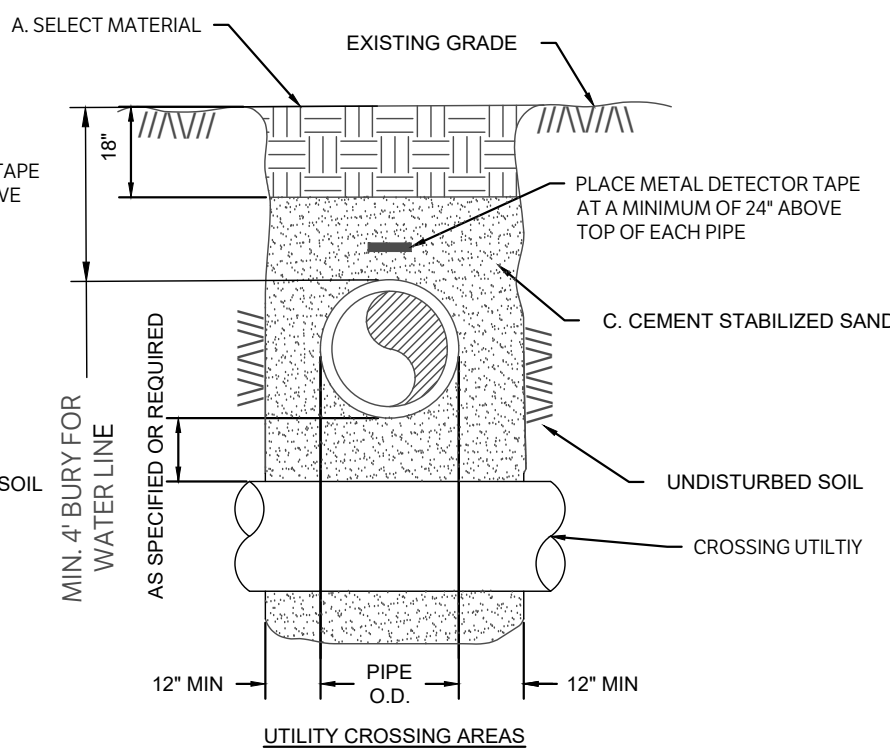
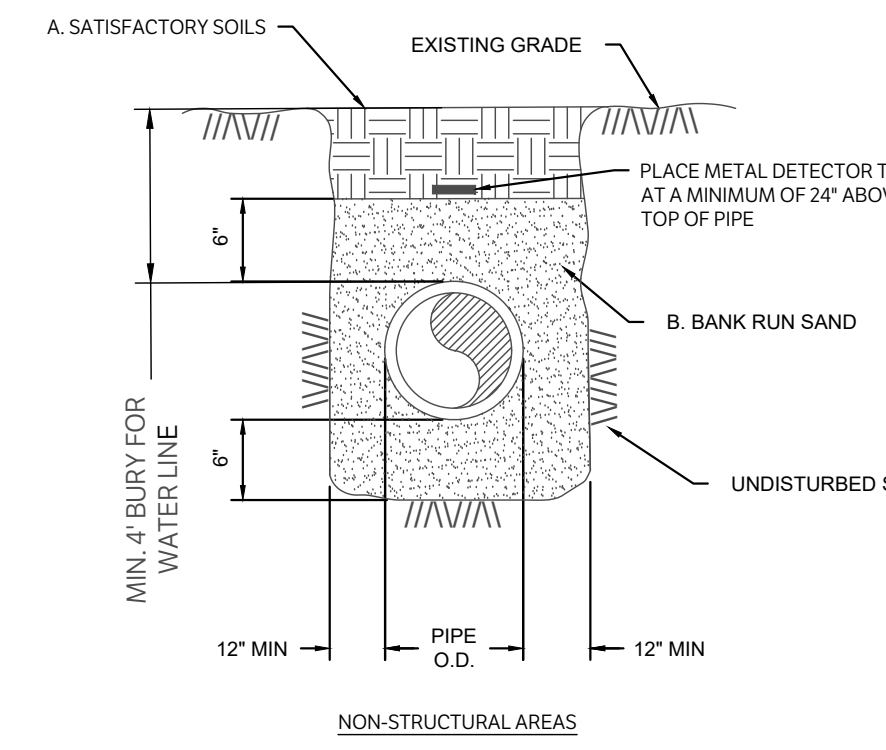


NOTES:  
1. SEE PLANS FOR JOINT SPACING, COMPRESSIVE STRENGTH, PAVEMENT THICKNESS, AND REINFORCING.  
2. SAW CUT OPERATIONS SHALL BEGIN AS SOON AS POSSIBLE AFTER CONCRETE PLACEMENT.  
3. SEAL ALL JOINTS WITH SELF LEVELING JOINT SEALANT MATERIAL PER SPECIFICATIONS.

**CONTROL JOINT**  
NTS



**EXPANSION JOINT**  
NTS



A. SATISFACTORY SOILS  
MATERIAL EXCAVATED FROM THE DITCH, (WHICH IS FREE OF ROCKS, LUMPS, CLODS, OR DEBRIS LARGER THAN TWO (2) INCHES IN THE LARGEST DIMENSION), COMPACTED TO A MINIMUM OF 90% OF MAXIMUM DENSITY AS DETERMINED BY ASTM D698 (STANDARD) AT MOISTURE CONTENT WITHIN OPTIMUM TO 2% OF OPTIMUM UNDER NON-STRUCTURAL AREAS (IE. YARDS, PASTURES, EASEMENTS) AND TO A MINIMUM OF 90% OF MAXIMUM DENSITY AS DETERMINED BY ASTM D698 (STANDARD) AT A MOISTURE CONTENT WITHIN OPTIMUM TO 2% OF OPTIMUM UNDER NEW STREET AND PAVEMENT AREAS.

B. BANK RUN SAND  
GRANULAR MATERIAL FREE OF DETRIMENTAL QUANTITIES OF CLAY, DEBRIS, OR ORGANIC MATERIAL. REFERENCE SPECIFICATION FOR REQUIREMENTS.

C. CEMENT STABILIZED SAND  
MATERIALS SHALL BE TYPE PORTLAND CEMENT CONFORMING TO ASTM C150 AND CLEAN DURABLE SAND MEETING GRADING REQUIREMENTS FOR FINE AGGREGATES OF ASTM C33. THE CEMENT STABILIZED SAND SHALL HAVE A MINIMUM OF 10% CEMENT PER CUBIC YARD OF CEMENT STABILIZED SAND MIXTURE, BASED ON LOOSE DRY WEIGHT VOLUME (AT LEAST 2.5 SACKS OF CEMENT PER CUBIC YARD OF MIXTURE). COMPACT MIX TO 90% OF ASTM D698 WITH A MOISTURE CONTENT BETWEEN .2% TO 2% ABOVE OPTIMUM.

D. PAVEMENT SUBGRADE  
REFERENCE PAVEMENT SECTION DETAIL AND SPECIFICATION FOR MATERIALS AND DEPTHS.

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

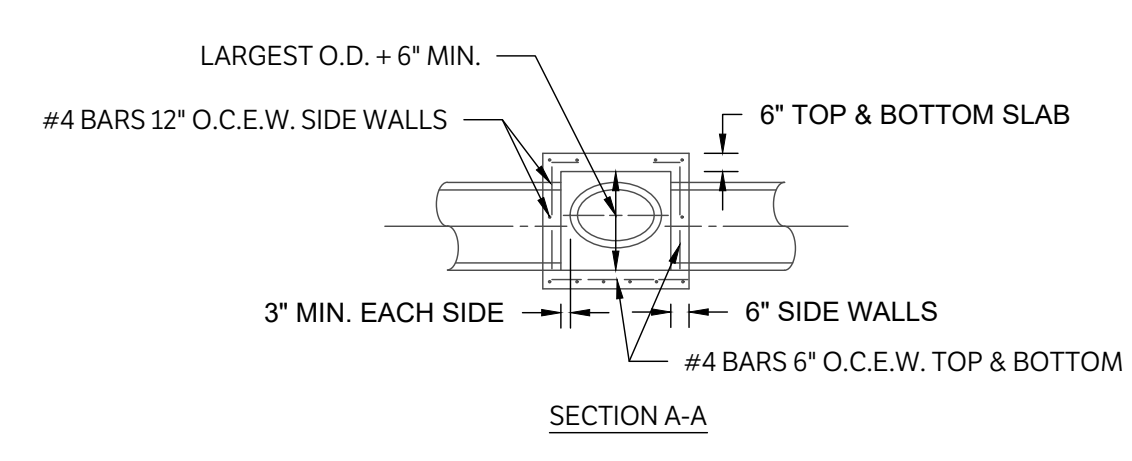
APPROVED EROSION CONTROL MEASURES MUST BE INSTALLED DURING THE ENTIRE TIME THAT EARTH HAS BEEN BARED BY CONSTRUCTION AND SHALL STAY IN PLACE UNTIL ACCEPTABLE VEGETATIVE GROWTH IS ESTABLISHED AFTER CONSTRUCTION IS COMPLETE AND THEN REMOVED BY CONTRACTOR.

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

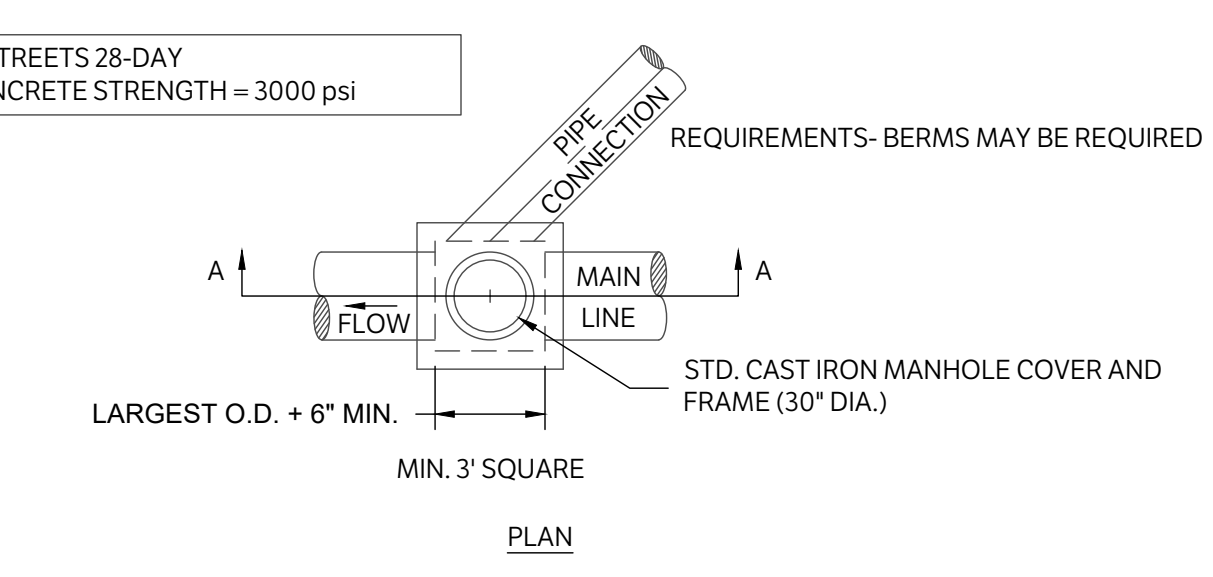
ESTABLISHMENT OF VEGETATION MAY BE A WARRANTY ITEM

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

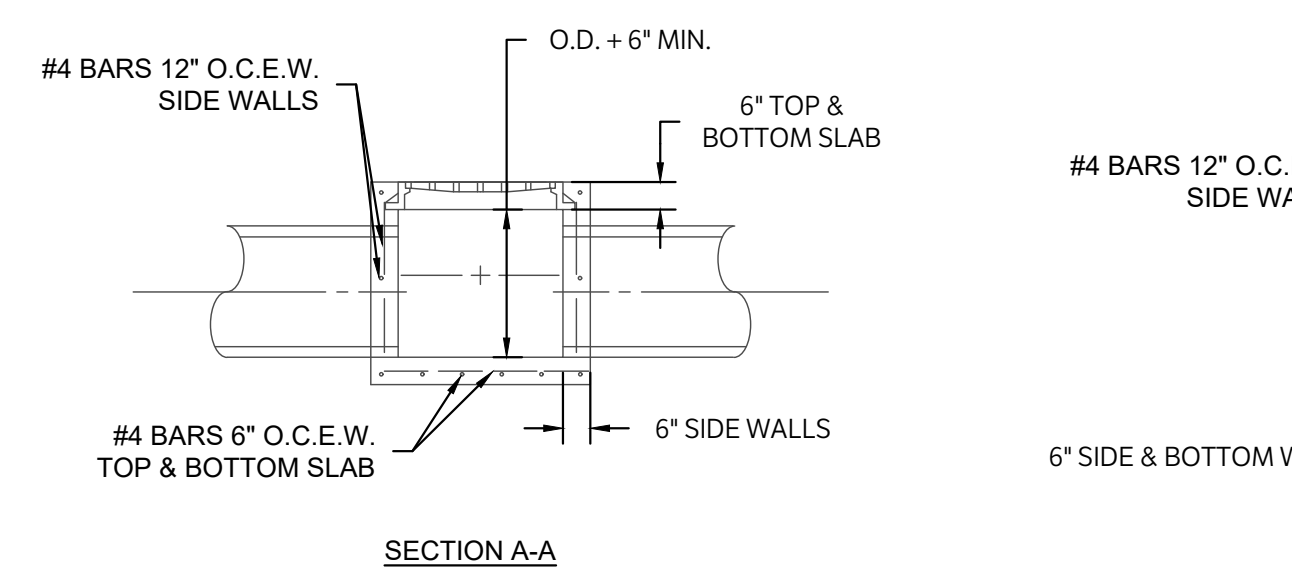
**BEDDING AND TRENCH FOR HDPE PIPE**  
NTS



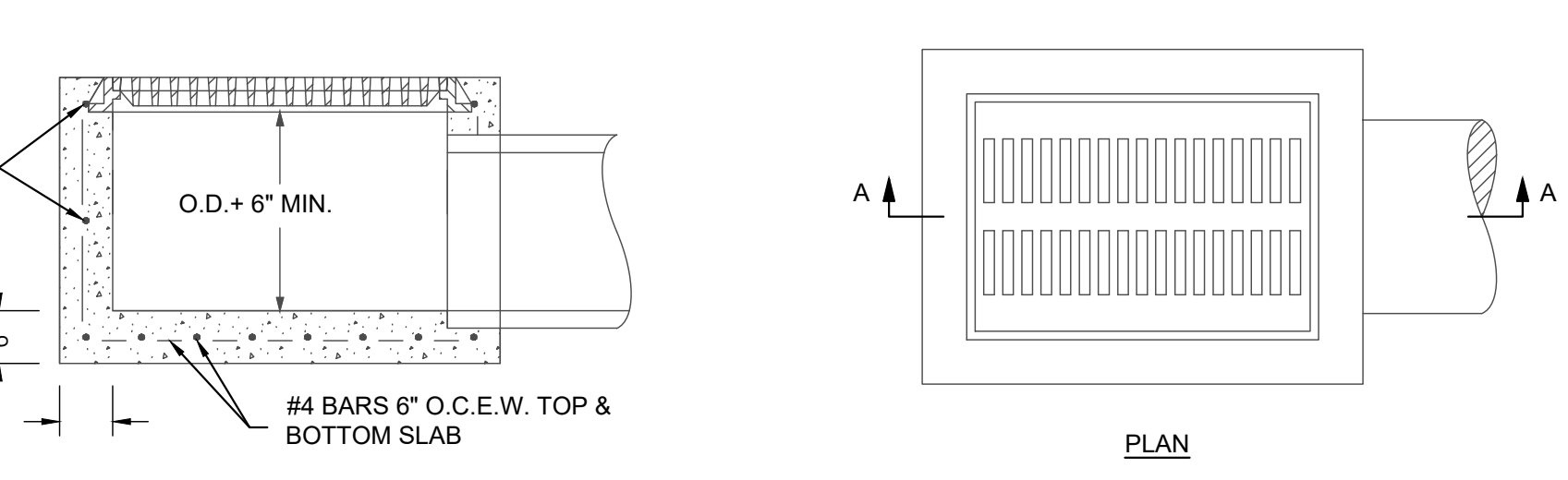
**SINGLE GRATE INLET**  
NTS



**STORM SEWER JUNCTION BOX**  
NTS



**GRATE INLET**  
NTS



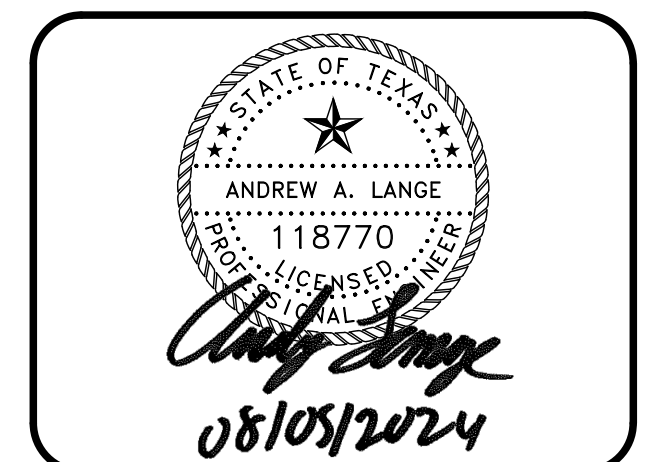
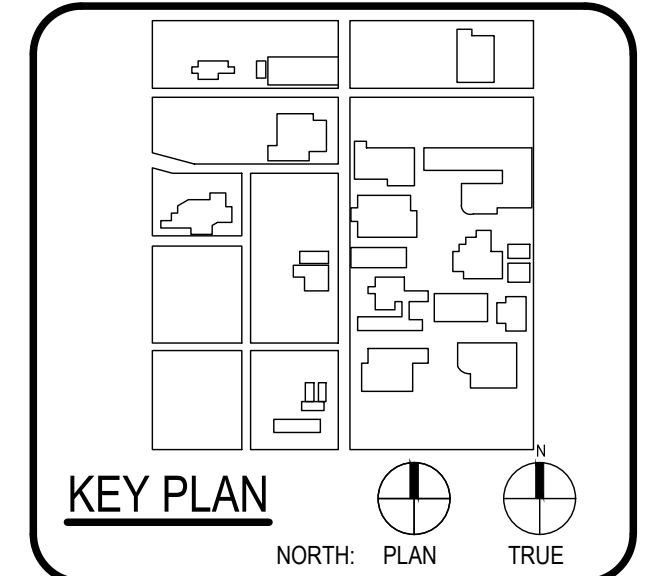
**PLAN**

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



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

WFAC Black Box Addition PKG 1



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

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

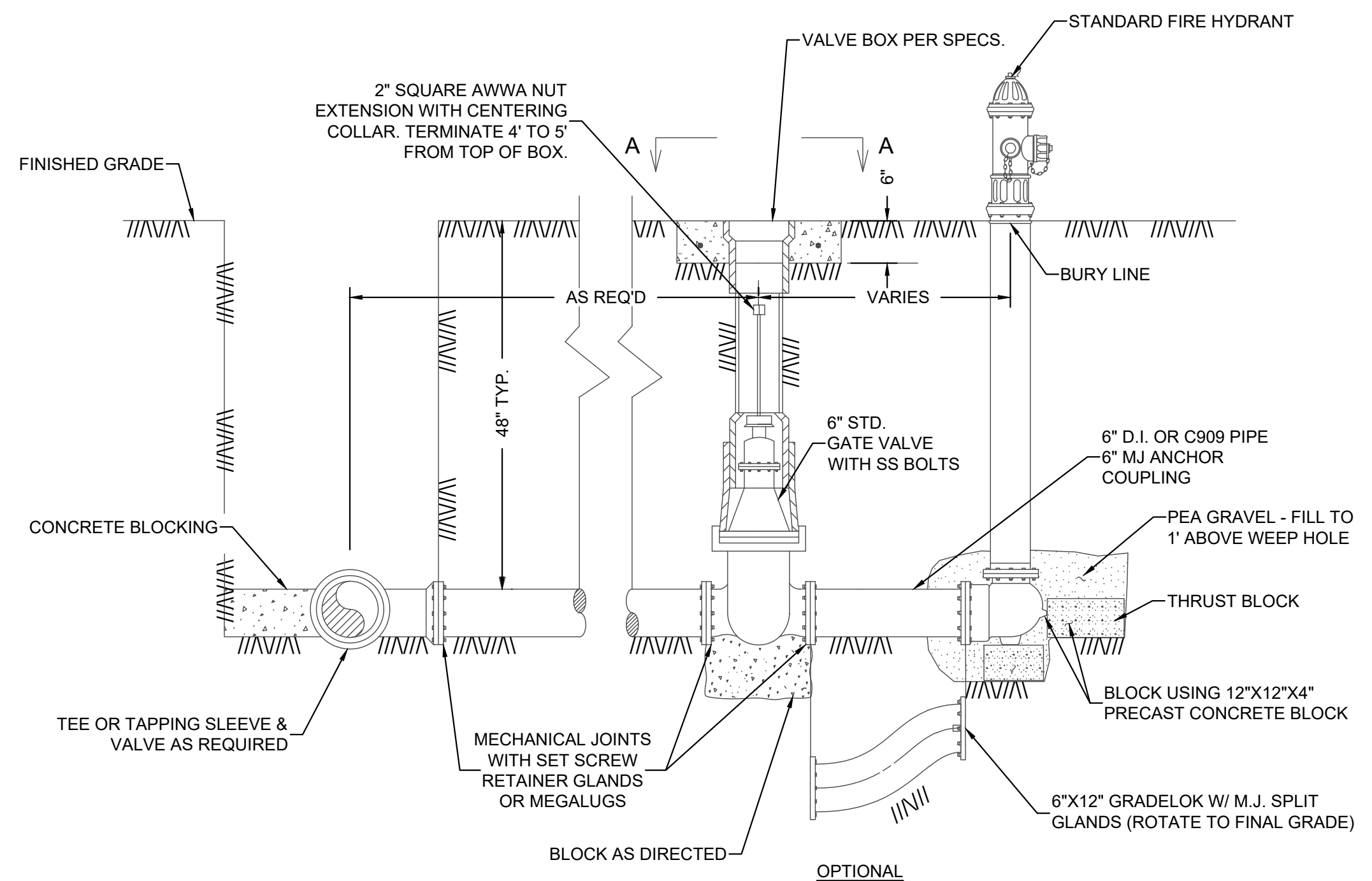
ISSUE FOR PERMIT  
BUILDING NUMBER

**DETAILS**  
**C1200**

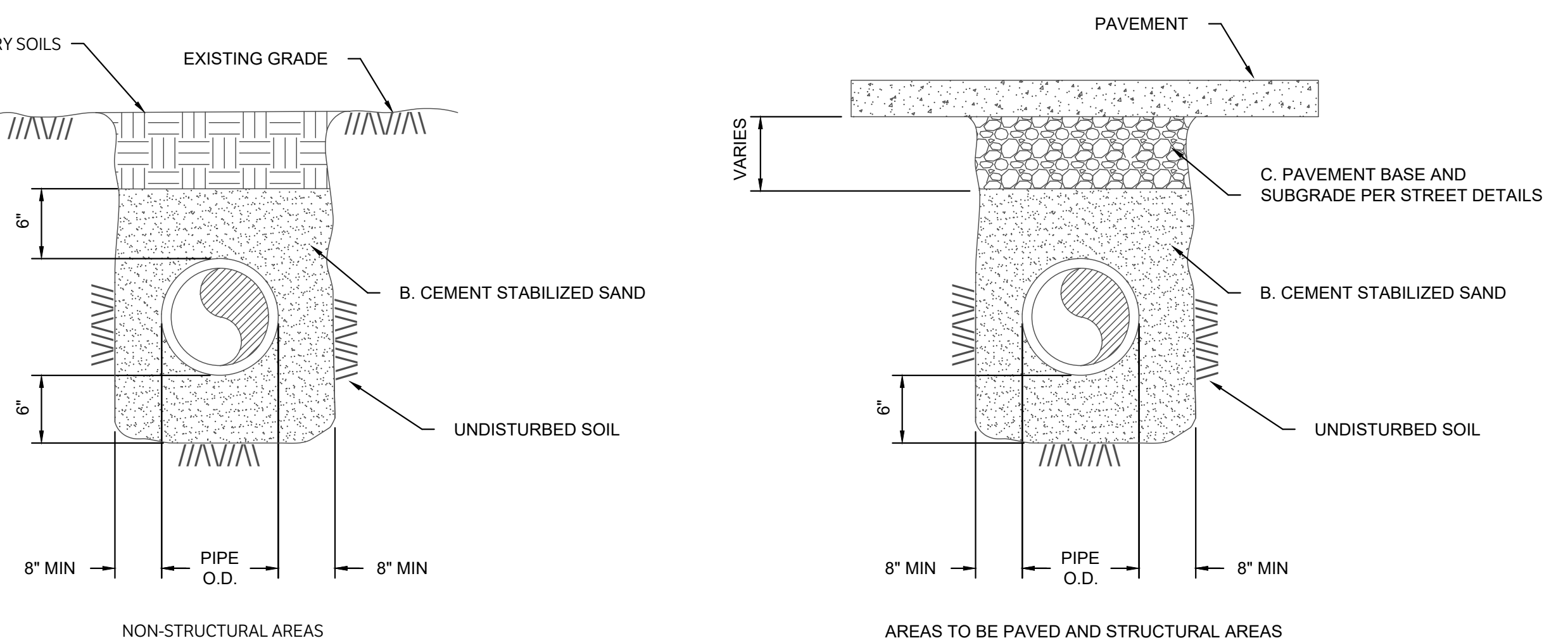
ISSUE FOR PERMIT

**GENERAL NOTES:**

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



**STANDARD FIRE HYDRANT ASSEMBLY NTS**



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

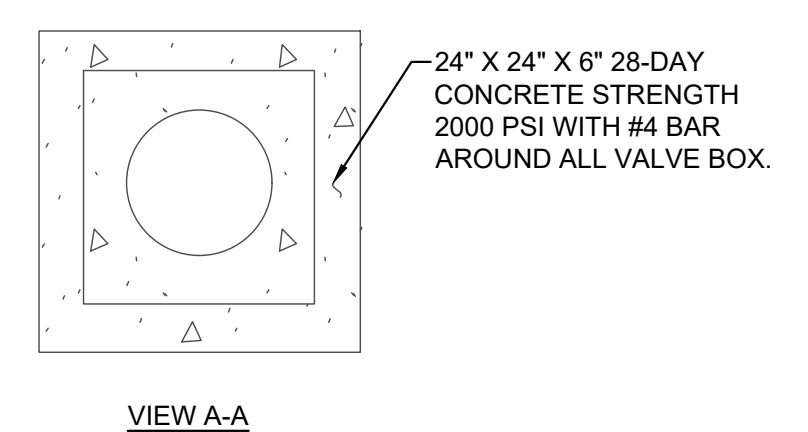
- A. SATISFACTORY SOILS**  
MATERIAL EXCAVATED FROM THE DITCH, (WHICH IS FREE OF ROCKS, LUMPS, CLODS, OR DEBRIS LARGER THAN TWO (2) INCHES IN THE LARGEST DIMENSION), COMPACTED TO A MINIMUM OF 95% OF MAXIMUM DENSITY AS DETERMINED BY ASTM D698 (STANDARD) AT A MOISTURE CONTENT WITHIN -2% TO 2% ABOVE OPTIMUM UNDER NON-STRUCTURAL AREAS (IE., YARDS, PASTURES, EASEMENTS) AND TO A MINIMUM OF 98% OF MAXIMUM DENSITY AS DETERMINED BY ASTM D698 (STANDARD) AT A MOISTURE CONTENT WITHIN -2% TO 2% ABOVE OPTIMUM UNDER PAVED AREAS.
- B. CEMENT STABILIZED SAND**  
MATERIALS SHALL BE TYPE I PORTLAND CEMENT CONFORMING TO ASTM C150 AND CLEAN DURABLE SAND MEETING GRADING REQUIREMENTS FOR FINE AGGREGATES OF ASTM C33. THE CEMENT STABILIZED SAND SHALL HAVE A MINIMUM OF 10% CEMENT PER CUBIC YARD OF CEMENT STABILIZED SAND MIXTURE, BASED ON LOOSE DRY WEIGHT VOLUME (AT LEAST 2 SACKS OF CEMENT PER CUBIC YARD OF MIXTURE), COMPACT MIX TO 95% OF ASTM D558 WITH A MOISTURE CONTENT BETWEEN -2% TO 2% ABOVE OPTIMUM.
- C. PAVEMENT SUBGRADE**  
REFERENCE PAVEMENT SECTION DETAIL AND SPECIFICATION FOR MATERIALS AND DEPTHS.

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

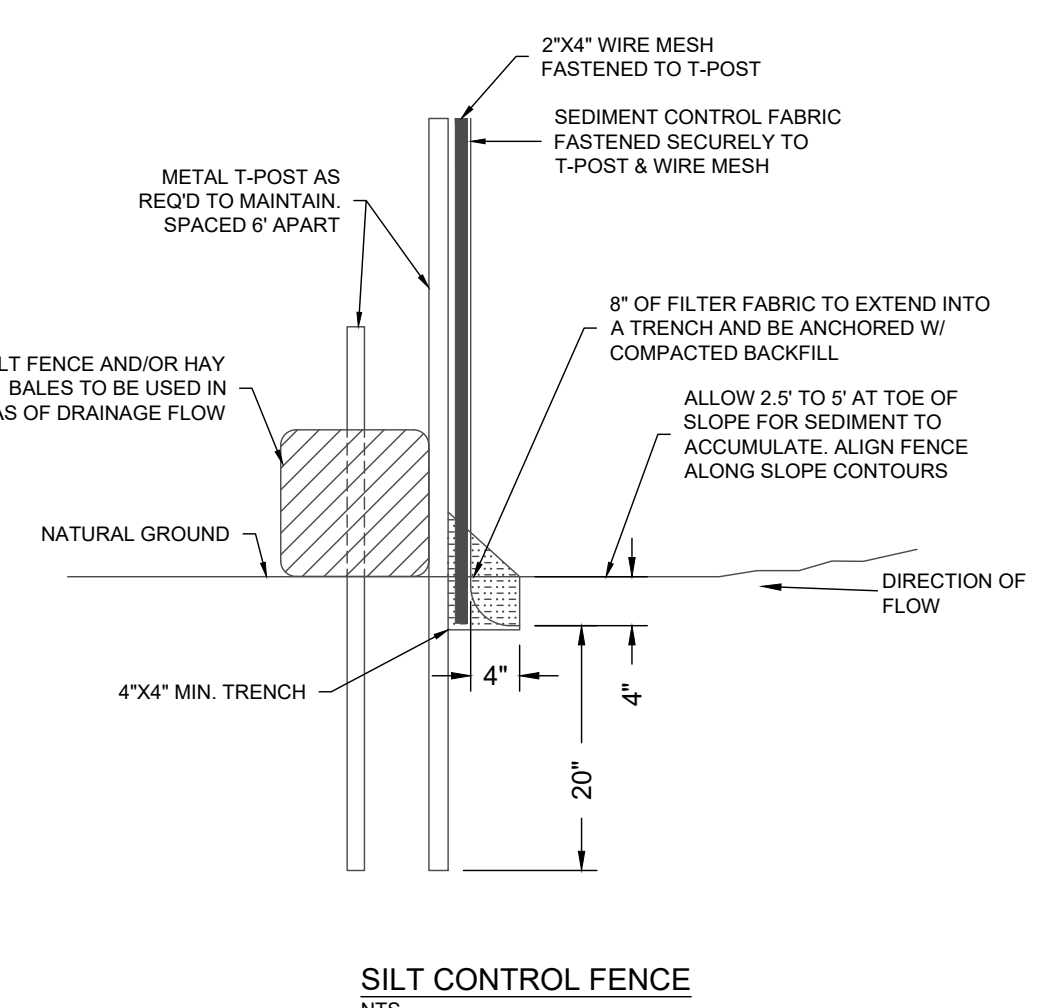
APPROVED EROSION CONTROL MEASURES MUST BE INSTALLED DURING THE ENTIRE TIME THAT EARTH HAS BEEN BARRED BY CONSTRUCTION AND SHALL STAY IN PLACE UNTIL ACCEPTABLE VEGETATIVE GROWTH IS ESTABLISHED AFTER CONSTRUCTION IS COMPLETE AND THEN REMOVED BY CONTRACTOR.

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

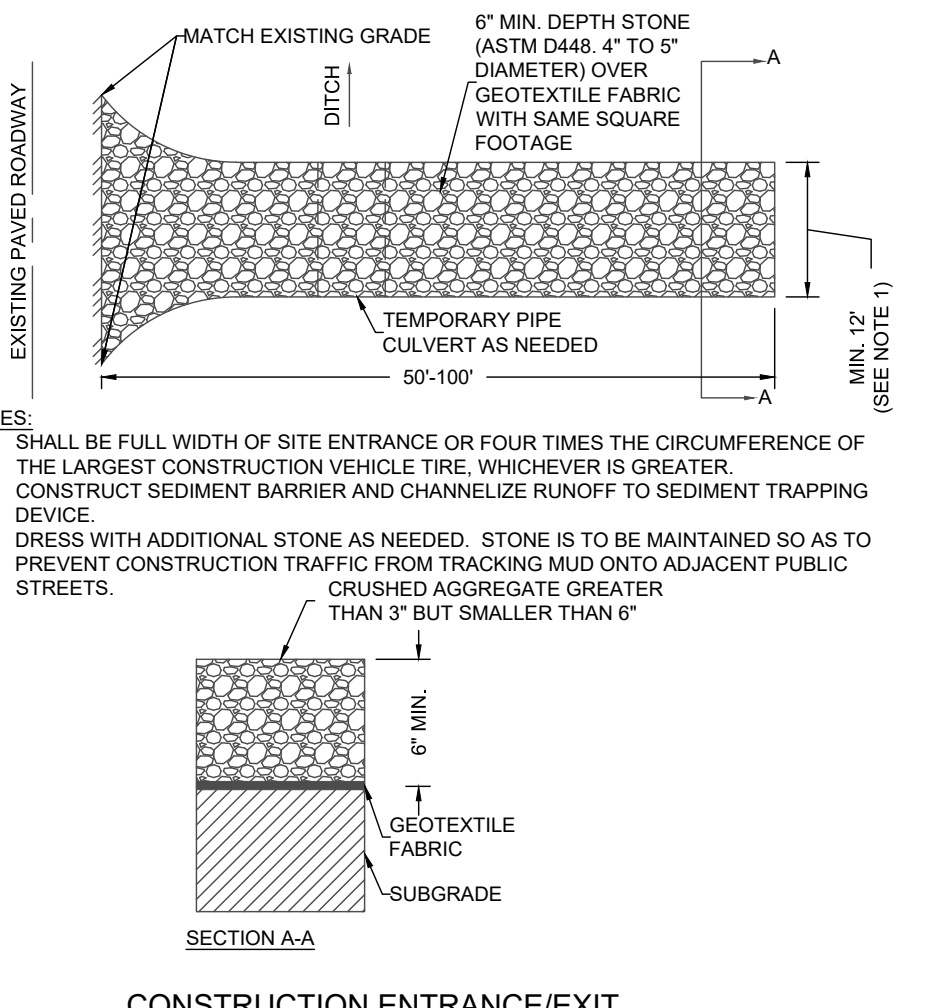
ESTABLISHMENT OF VEGETATION MAY BE A WARRANTY ITEM



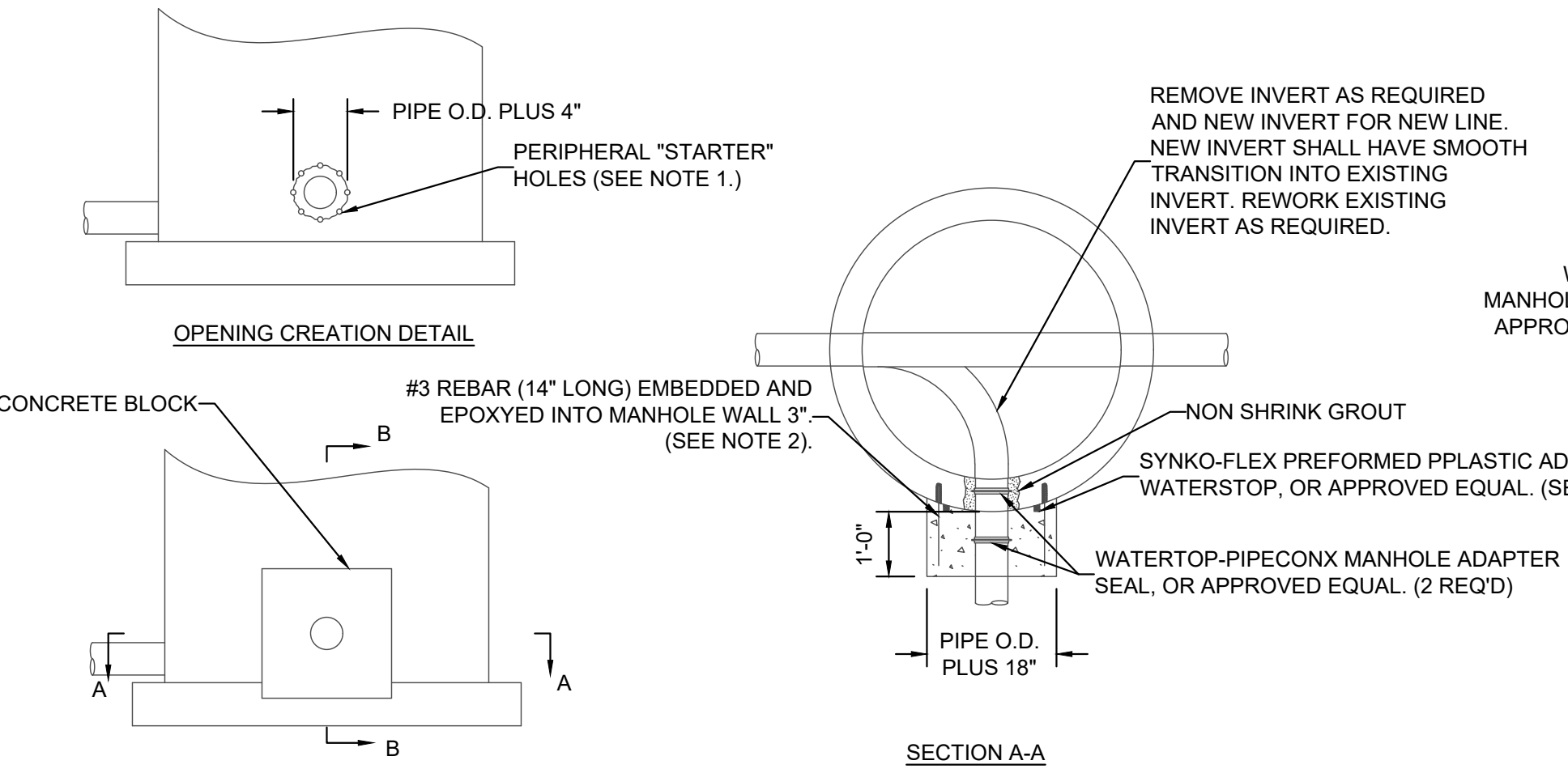
**VIEW A-A**



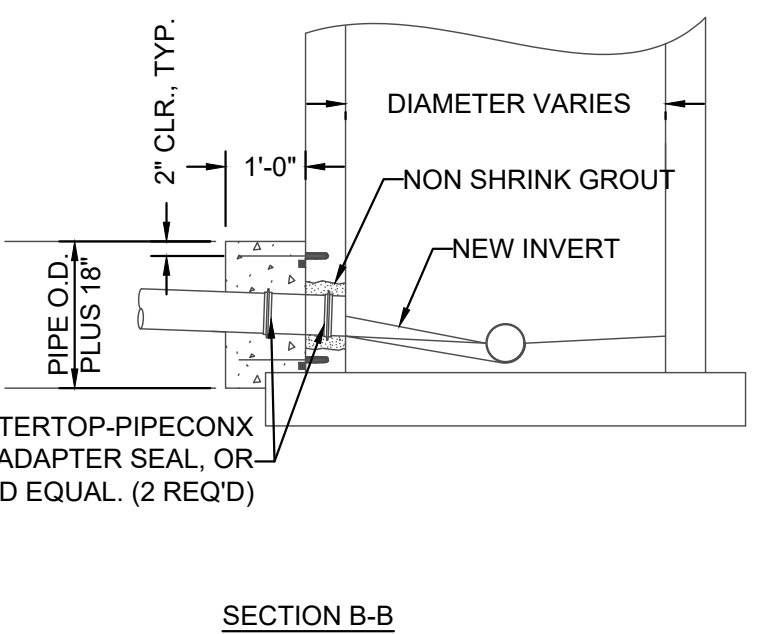
**SILT CONTROL FENCE NTS**



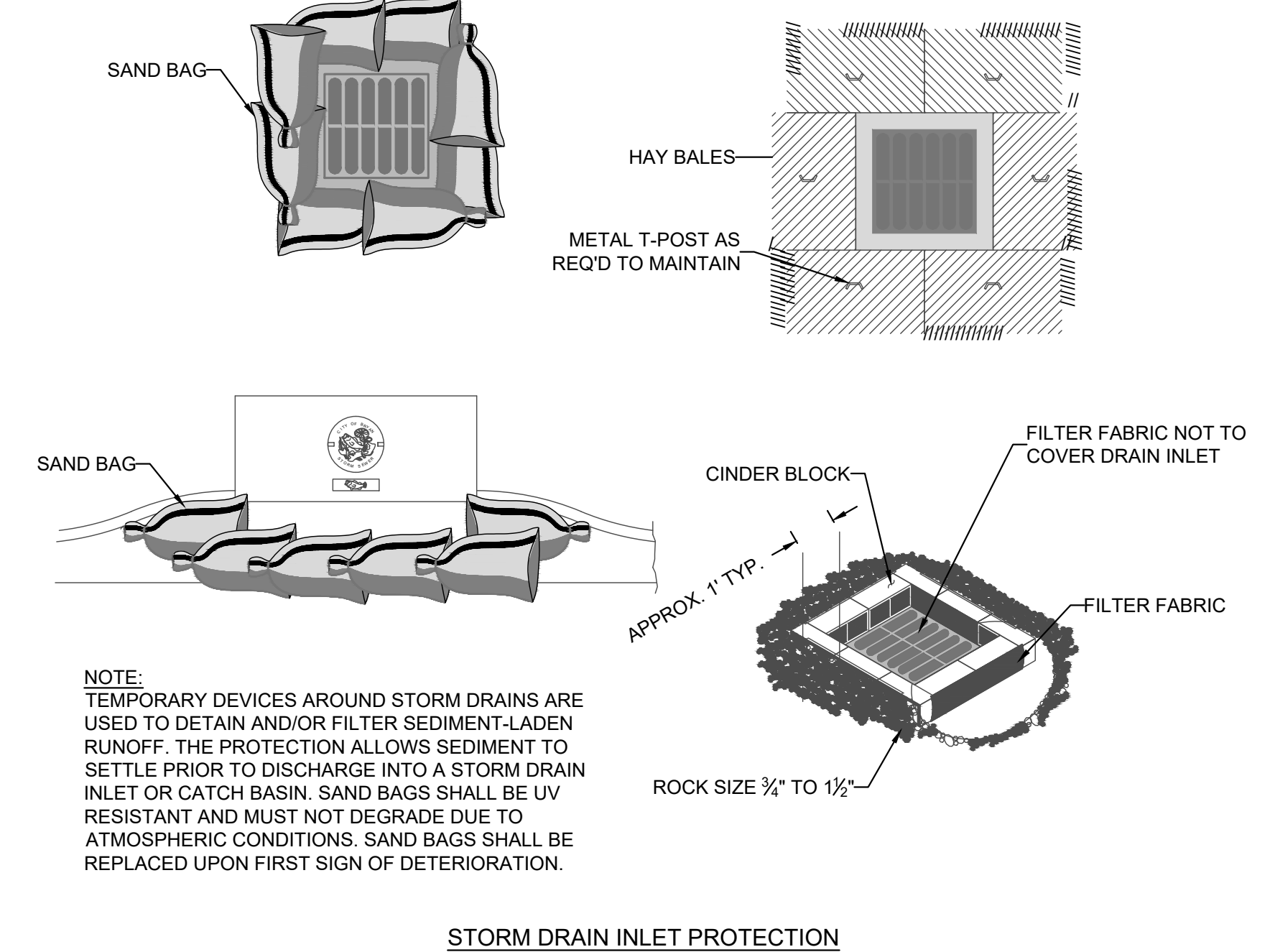
**CONSTRUCTION ENTRANCE/EXIT NTS**



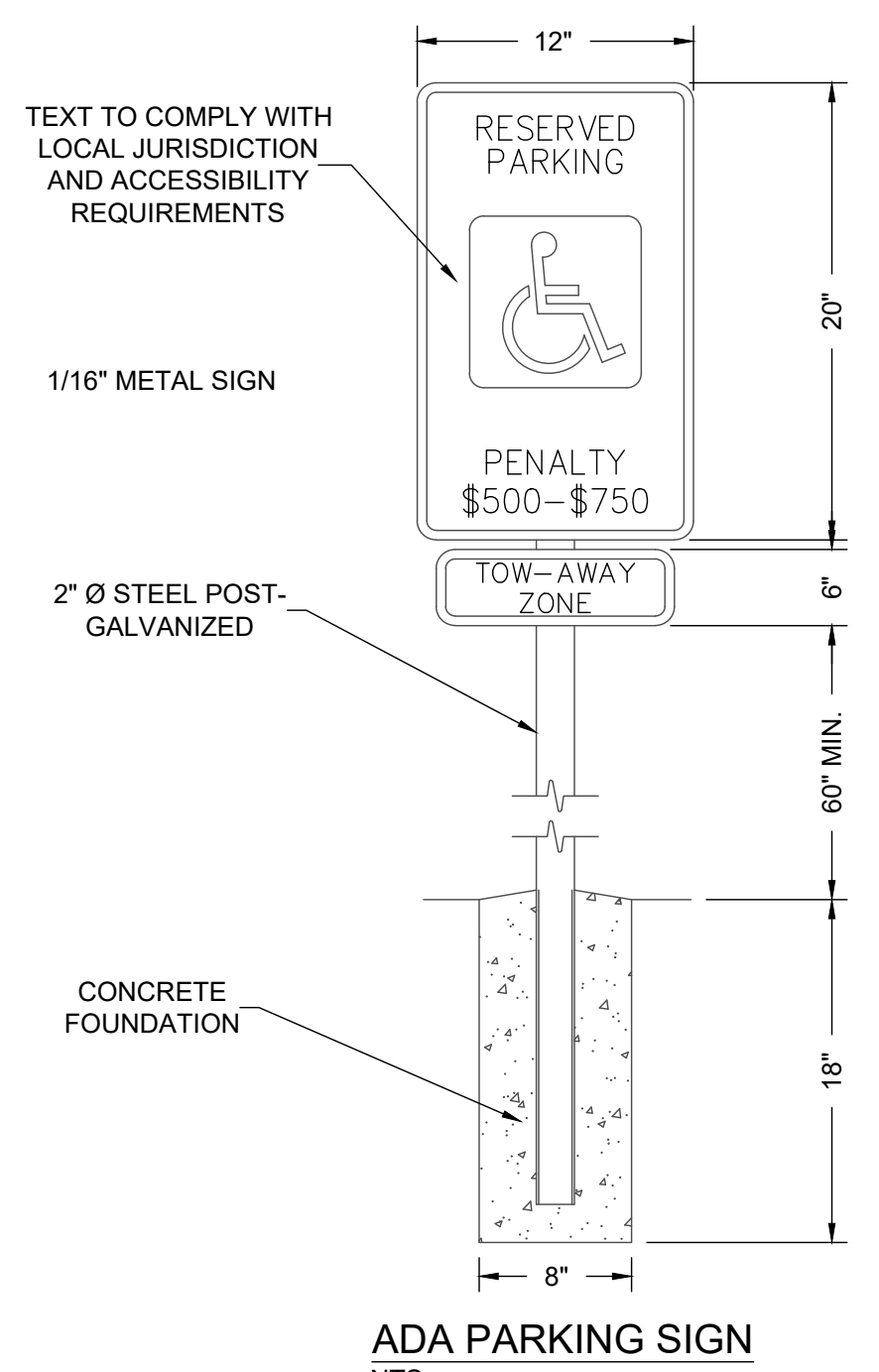
**STANDARD MANHOLE TIE-IN NTS**



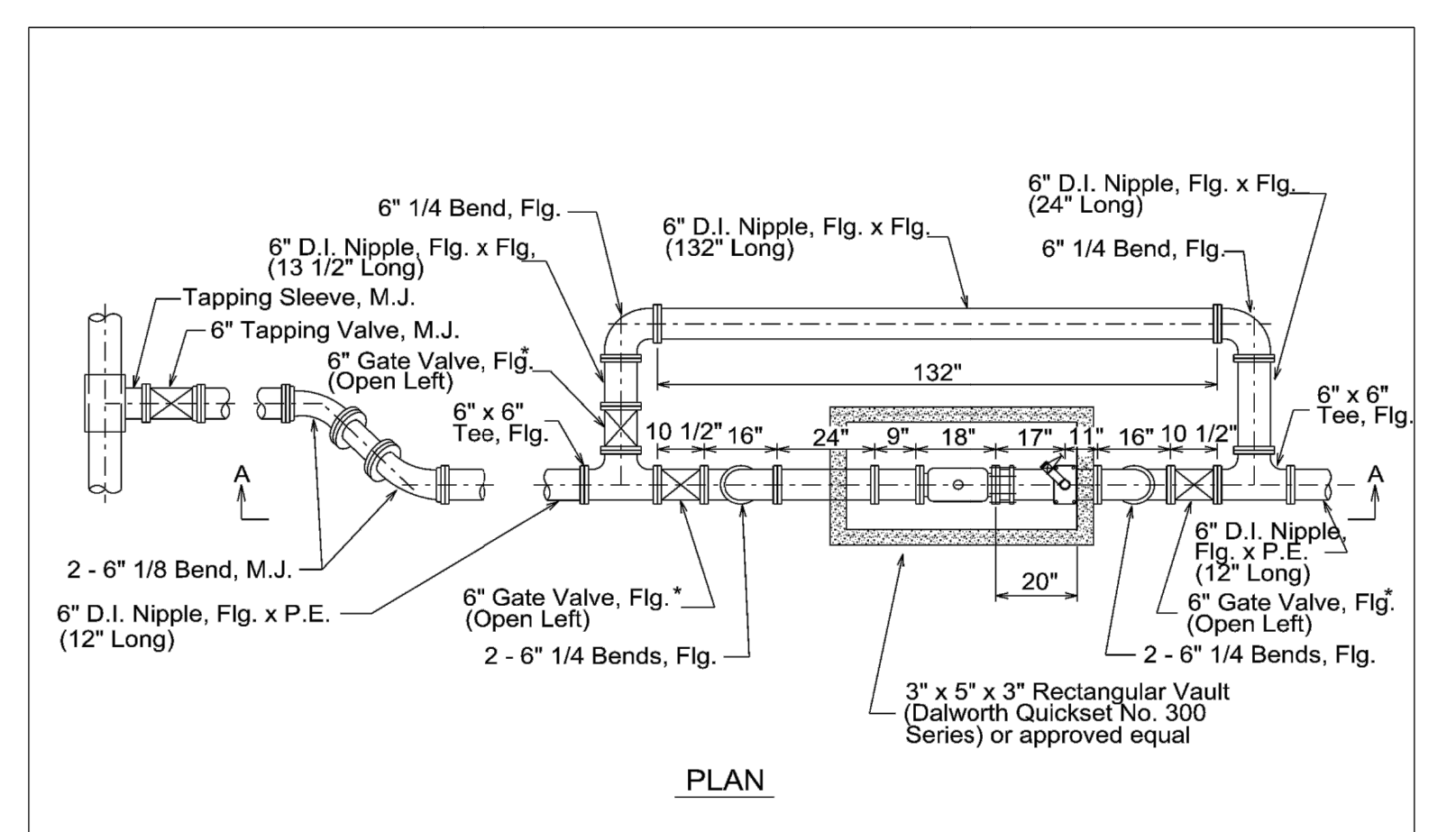
- NOTE:**
- 1" DIA. "STARTER HOLES SHALL BE DRILLED THROUGH WALL OF EXISTING MANHOLE SPACED 3" APART CENTER TO CENTER. AFTER "STARTER" HOLES HAVE BEEN INSTALLED AND APPROVED BY A CITY INSPECTOR, THE CONTRACTOR SHALL BEGIN REMOVING THE CONCRETE INSIDE THE PERIPHERAL "STARTER" HOLES. CONCRETE SHALL BE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



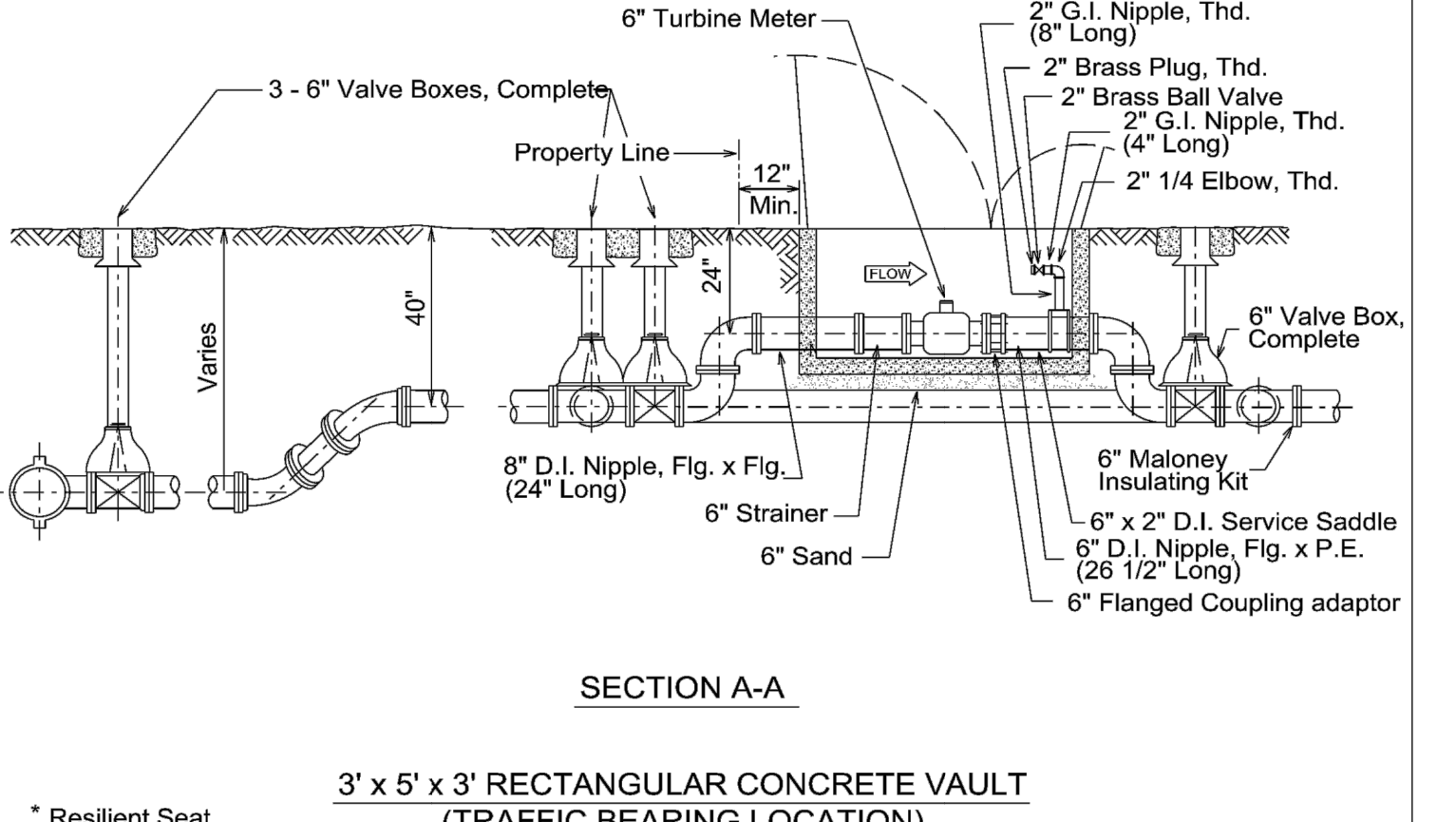
**STORM DRAIN INLET PROTECTION NTS**



**ADA PARKING SIGN NTS**



**PLAN**



**SECTION A-A**

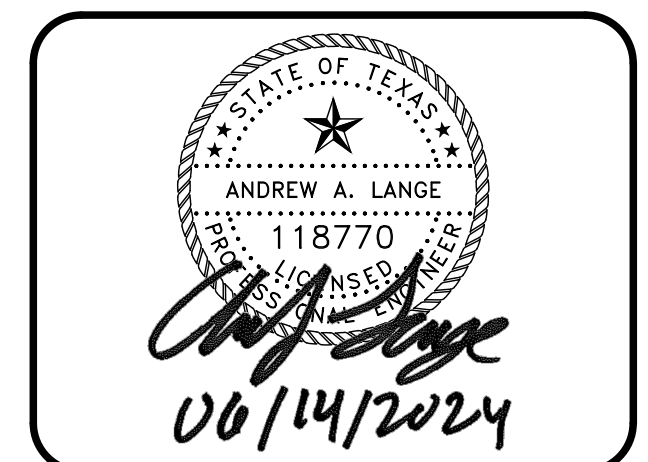
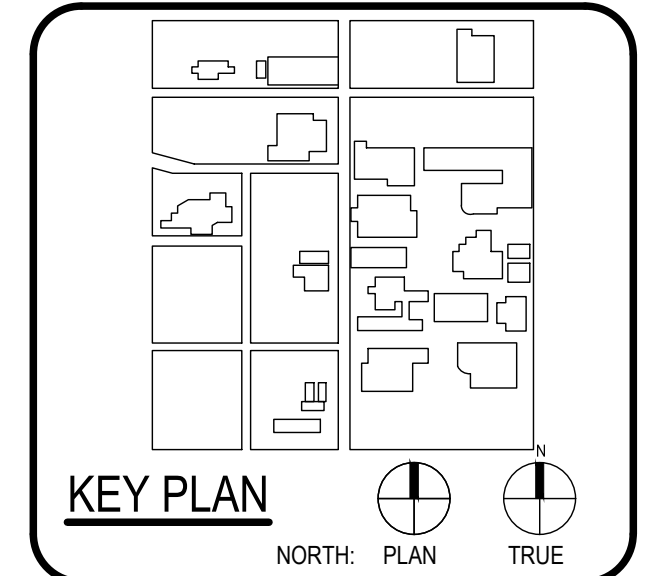
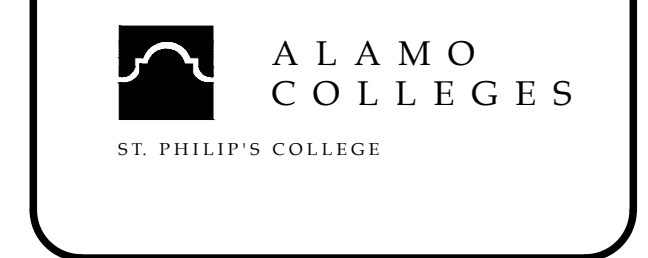
PROPERTY OF <b>SAN ANTONIO WATER SYSTEM</b> SAN ANTONIO, TEXAS	<b>6" TURBINE METER INSTALLATION</b>	APPROVED March 2008	REVISED AUG 2019
		<b>DD-824-09</b>	
		SHEET <b>2 OF 2</b>	

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



ARCHITECT	PBK Architects, Inc.
SAN ANTONIO 601 N.W. Loop 410, Suite 400 San Antonio, TX 78216 210-829-0123 P 210-829-0578 F TX Firm BR 1608	
ARCHITECT	BA & ARCHITECTS
1701 BRUNNEN DUBLIN, OH 43017 614-891-1000 www.baandarchitects.com	
ARCHITECT	LANDSCAPE
11111 W. LOOP WEST SUITE 100 DALLAS, TEXAS 75241 214-353-9999 www.lunbykhanh.com	
ARCHITECT	LUNBY & KHANH ENGINEERING
11111 W. LOOP WEST SUITE 100 DALLAS, TEXAS 75241 214-353-9999 www.lunbykhanh.com	
ARCHITECT	TRAVELER
MEAN PROJECTS 1701 BRUNNEN DUBLIN, OH 43017 614-891-1000 www.traveler.com	

**WFAC Black Box Addition PKG 1**  
 600 S Milman St.  
 San Antonio, TX 78203  
 ISSUE FOR CONSTRUCTION



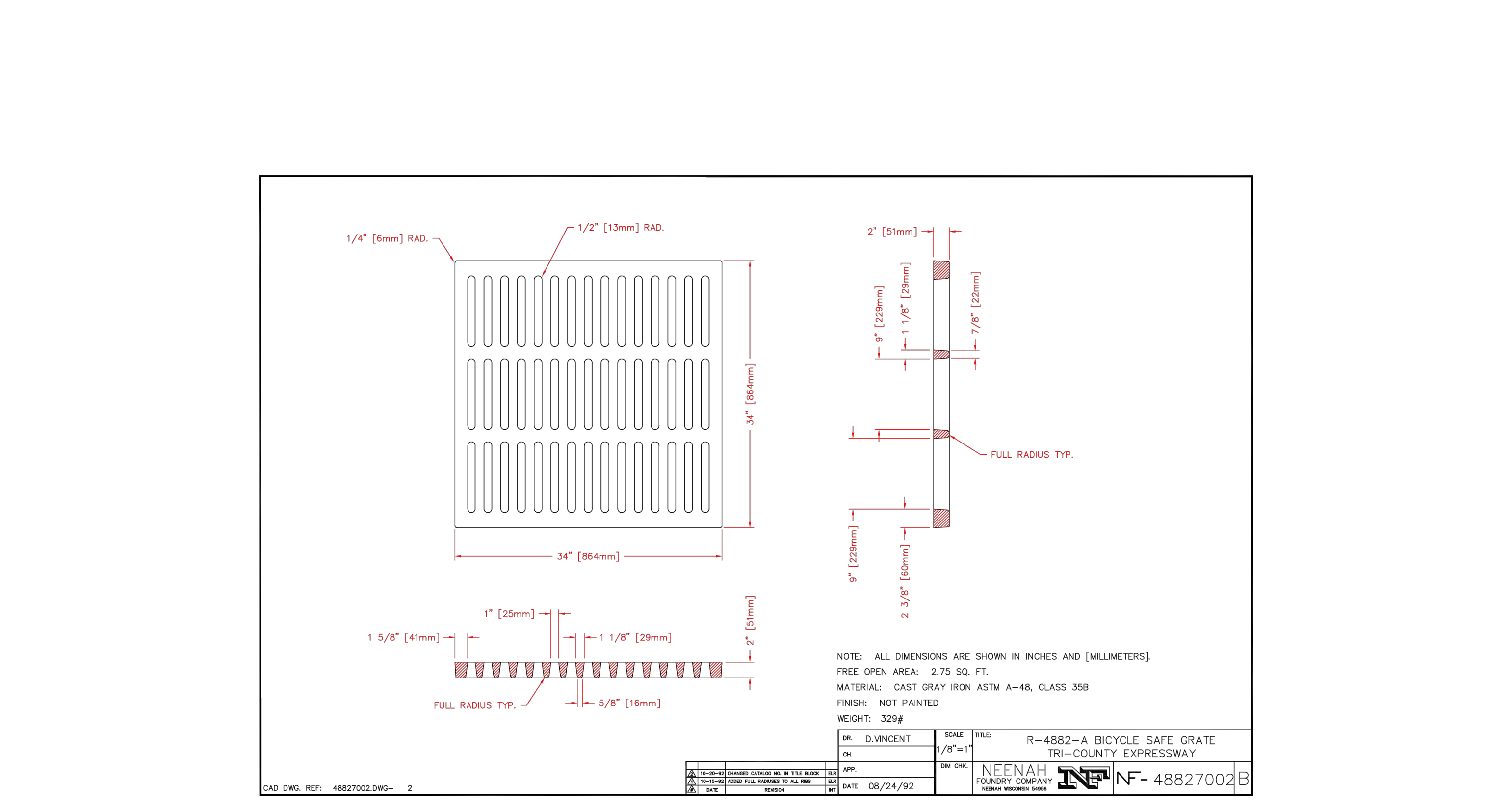
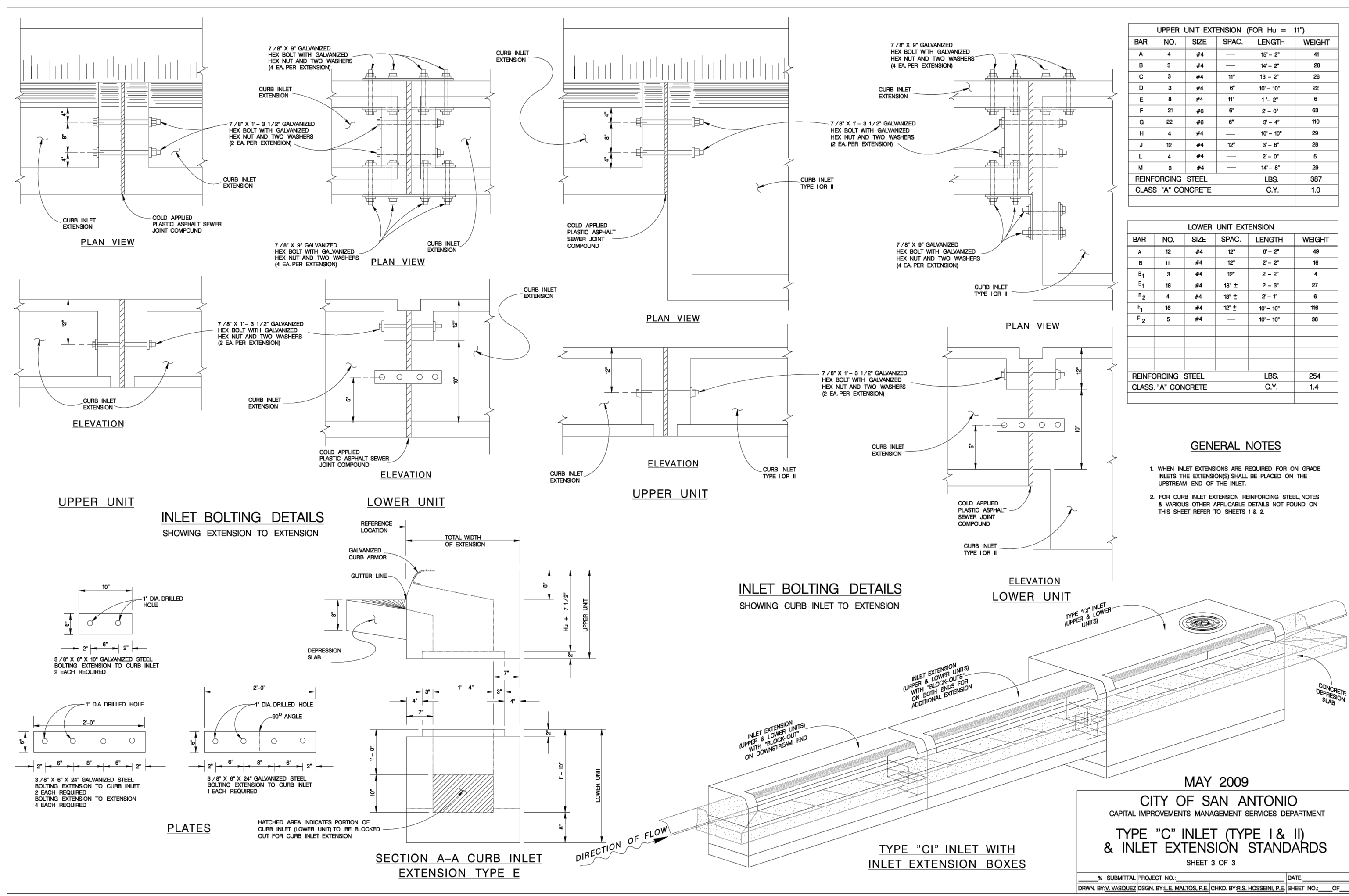
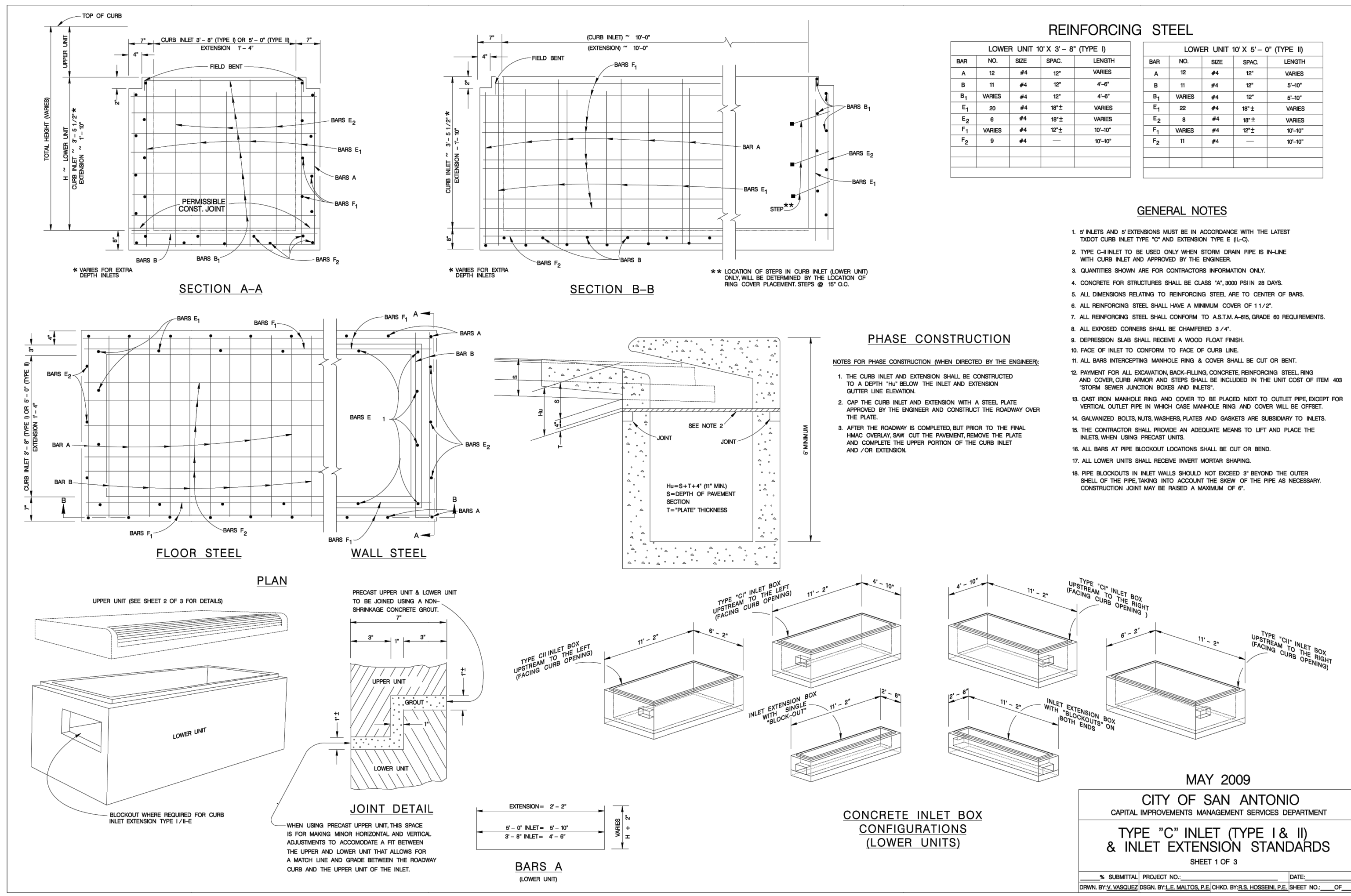
CLIENT	Alamo Colleges	
DATE	2024/06/12	
PROJECT NUMBER	230462	
DRAWING HISTORY		
No.	Description	Date

**ISSUE FOR CONSTRUCTION**  
 BUILDING NUMBER  
**DETAILS**

C1201

2400  
Sheet Grids Template  
FOR BLUEBRAIN LABELLING CORR.

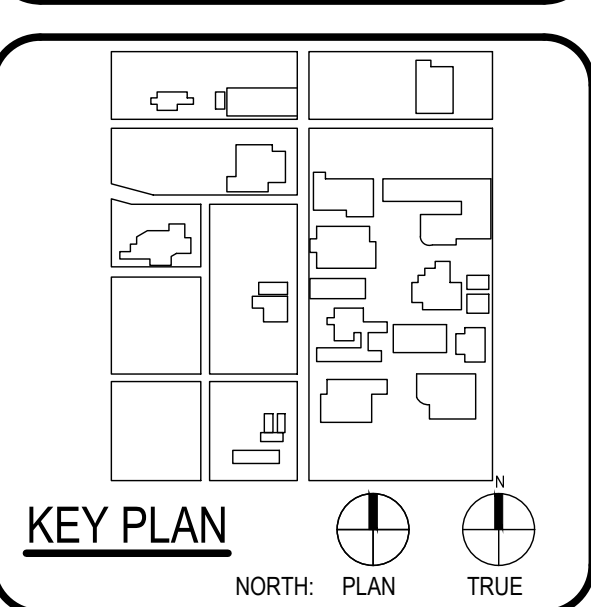
# ISSUE FOR CONSTRUCTION



**ARCHITECT** PBK Architects, Inc.  
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210-829-0578 F  
TX Firm BR 1608

**ASSOCIATE ARCHITECT**  
BA & ARCHITECTS  
2100 BRIDGE  
2101 BRIDGE  
LANDSCAPE  
LUNNY & HANCOCK ENGINEERING  
7101 BRIDGE  
7101 BRIDGE  
7101 BRIDGE  
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7101 BRIDGE  
7101 BRIDGE

**WFAC Black Box Addition PKG 1**



**ANDREW A. LANGE**  
118770  
06/14/2024

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

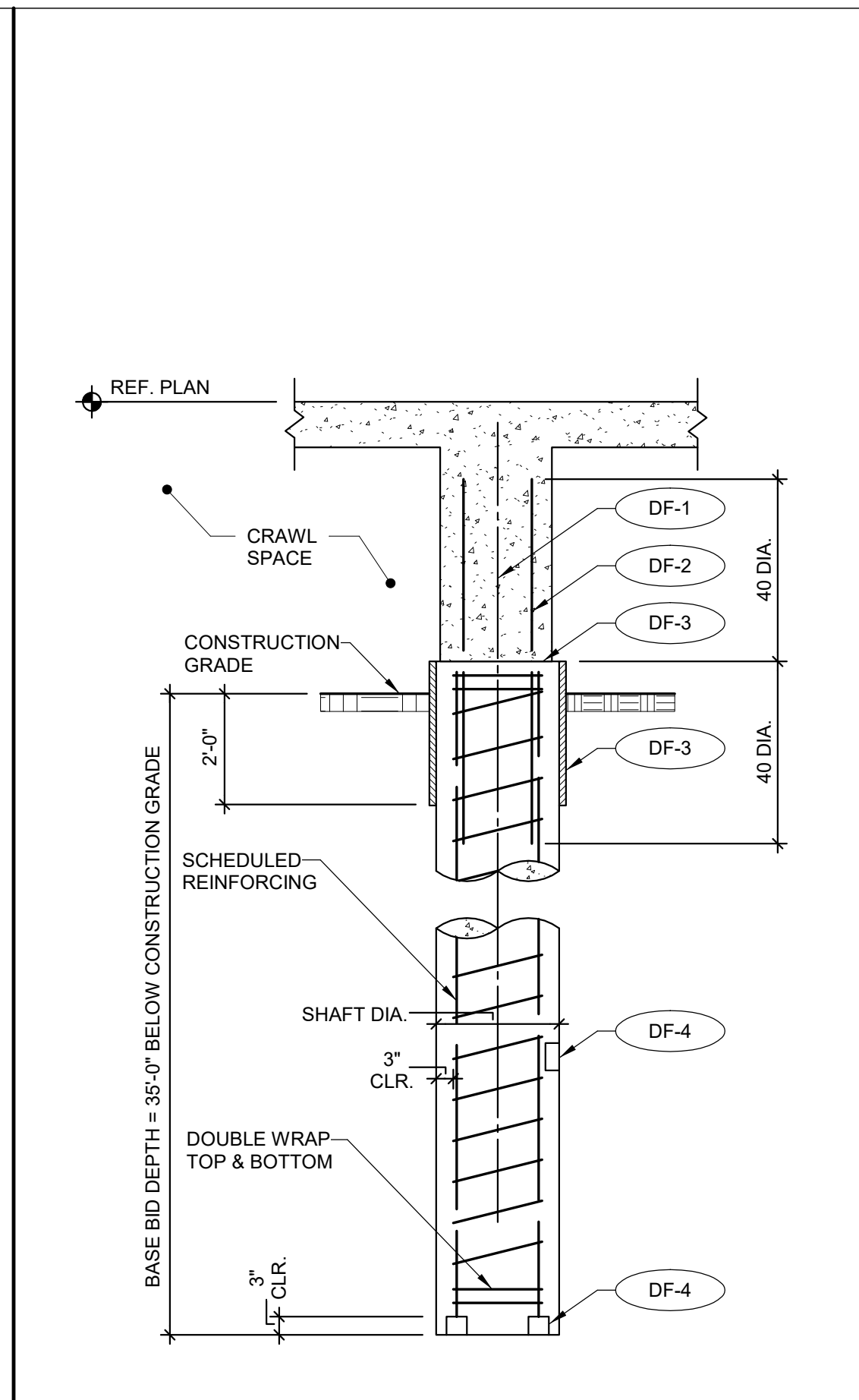
No.	Description	Date

**ISSUE FOR CONSTRUCTION**

**BUILDING NUMBER**

**DETAILS**

CHECKED BY: SH & AL  
DRAWN BY: JC



1 DETAIL N.T.S.

FOOTING SCHEDULE table with columns MARK, SHAFT (DIA., VERT. BARS, SPIRAL), and DEPTH. Includes rows for F1, F2, F3.

- DRILLED FOOTING NOTES: DF-1 FOOTING SHALL BE LOCATED ON CENTERLINES OF COLUMN ABOVE UNLESS DIMENSIONED OTHERWISE ON PLAN. DF-2 PROVIDE DOWELS FROM FOOTING INTO CONCRETE ABOVE USING SAME BAR SIZE AND PATTERN AS FOR SCHEDULED COLUMN ABOVE.

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 STRUCTURAL DRAWINGS AND SECONDARILY FROM MEP, CIVIL AND OTHER DISCIPLINES' DOCUMENTS.

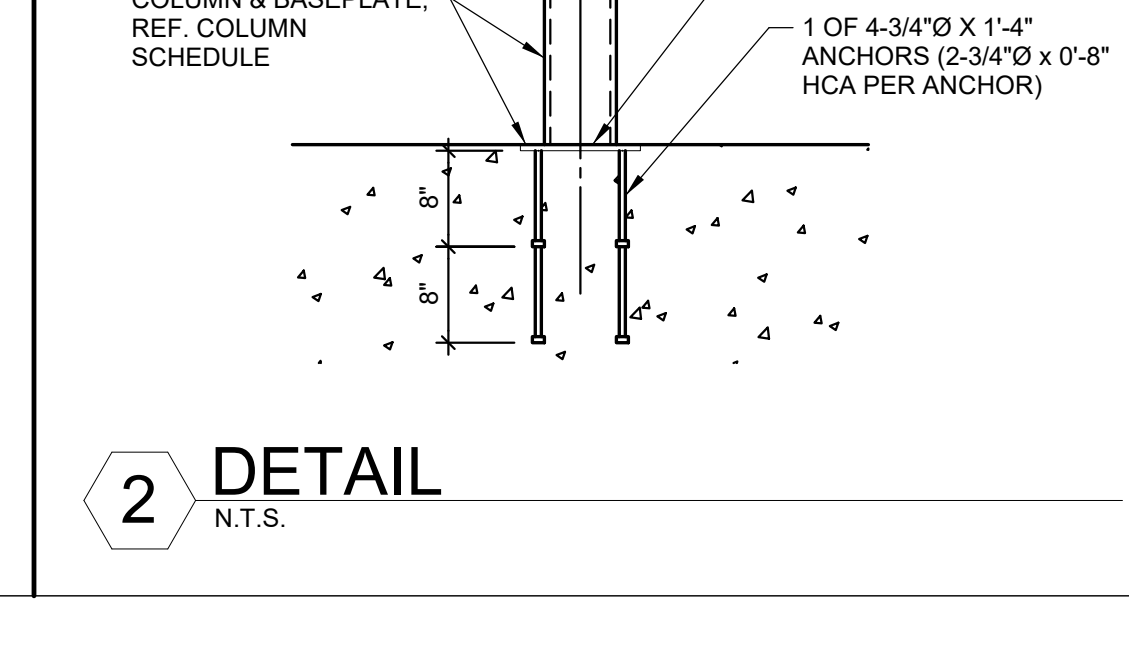
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- GENERAL NOTES: GN-1 THIS STRUCTURE IS DESIGNED IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE (2021) AS AMENDED AND ADOPTED BY THE GOVERNING AUTHORITY, AND APPLICABLE INDUSTRY STANDARDS (AISC, ACI, ETC.). GN-2 THE DESIGN LOADS ARE: SUPERIMPOSED DEAD LOADS MECHANICAL DUCTS/CONDUITS, CEILING, ETC. 5 PSF MECHANICAL EQUIPMENT AS INDICATED ON PLANS

- RETAINING WALLS GLOBAL STABILITY ANALYSIS FACTOR OF SAFETY 1.5 TYPE: CANTILEVER EARTHQUAKE ACCELERATION SA 14% SPECTRAL RESPONSE ACCELERATION S 3% SPECTRAL RESPONSE COEF. SDS 14% SPECTRAL RESPONSE COEF. SD 5% SEISMIC DESIGN CATEGORY A

- DRILLED FOOTING NOTES: DF-3 SHAFTS 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. DF-4 REINFORCING CAGE SHALL BE HELD 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.

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 STRUCTURAL DRAWINGS AND SECONDARILY FROM MEP, CIVIL AND OTHER DISCIPLINES' DOCUMENTS.



- 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 3,000 PSI BEAMS AND FLAT SLAB FLOOR SYSTEMS 4,000 PSI BEAM, GIRDER, AND JOIST FLOOR SYSTEM 4,000 PSI SLABS ON METAL FORMS 3,000 PSI COMPOSITE SLABS ON METAL FORMS 4,000 PSI COLUMNS AND WALLS SEE SCHEDULE PRECAST CONCRETE 5,500 PSI

- 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.

REINFORCING BAR LAP SPICE TABLE (MASONRY)

Table with 4 columns: BAR SIZE, POSITION, CONCRETE Fc (PSI), and LAP CLASS. Rows for #3 thru #6 and #7 thru #11.

REINFORCING BAR LAP SPICE TABLE (BEAMS AND COLUMNS)

Table with 4 columns: BAR SIZE, POSITION, CONCRETE Fc (PSI), and LAP CLASS. Rows for #3 thru #6 and #7 thru #11.

REINFORCING BAR LAP SPICE TABLE (SLABS AND WALLS)

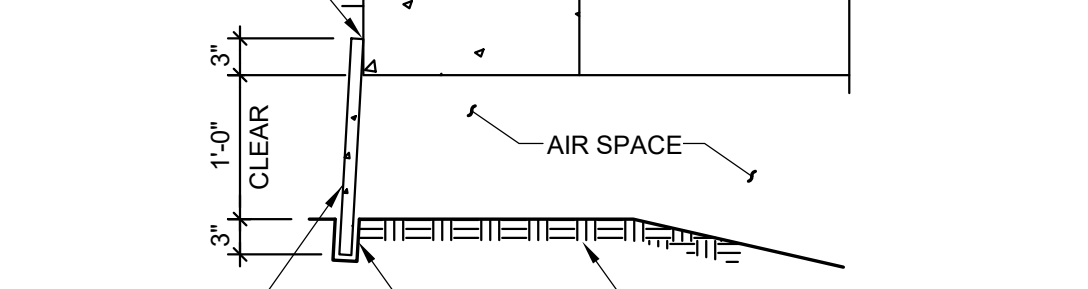
Table with 4 columns: BAR SIZE, POSITION, CONCRETE Fc (PSI), and LAP CLASS. Rows for #3 thru #6 and #7 thru #11.

- REBAR LAP SPICE TABLE NOTES: RL-1 'db' DENOTES BAR DIAMETER. 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. RL-4 FOR LIGHTWEIGHT CONCRETE, MULTIPLY BY 1.3. RL-5 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 SPICING PLAN IN ACCORDANCE WITH ACI 12.2.2 FOR APPROVAL.

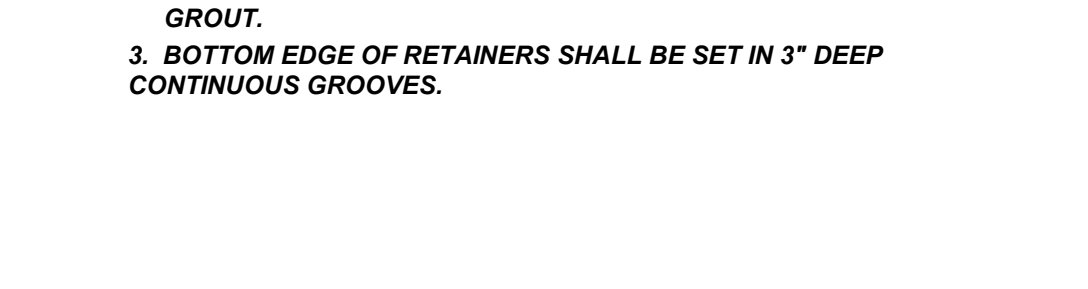
- STEEL FRAMING NOTES: SF-1 WIDE FLANGE STRUCTURAL STEEL SHALL CONFORM TO ASTM A992, FY=50 KSI. STRUCTURAL PIPE SHALL CONFORM TO ASTM A53, GRADE B, FY=35 KSI. STRUCTURAL TUBING SHALL CONFORM TO ASTM A500, GRADE B, FY=46 KSI. ALL OTHERS SHALL CONFORM TO ASTM A36, FY=36 KSI. CONNECTIONS SHALL CONFORM TO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

- CONCRETE NOTES: CN-3 REINFORCING STEEL SHALL BE FROM NEW BILLET AND SHALL CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS: A615-GR 60 FOOTING SPIRALS A185 WELDED WIRE FABRIC A615-GR 60 BEAM STIRRUPS, COLUMN TIES A615-GR 60 ALL OTHER REINFORCING ASTM A606-60 HEADED CONCRETE ANCHORS ASTM A496 DEFORMED BAR ANCHORS

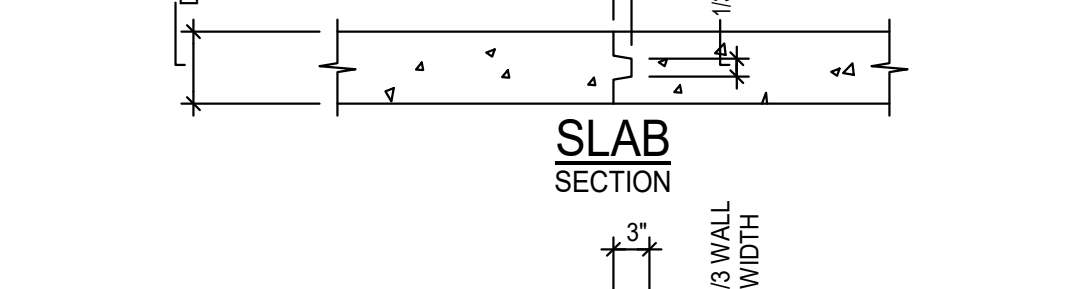
REINFORCING BAR LAP SPICE TABLE (SLABS AND WALLS)



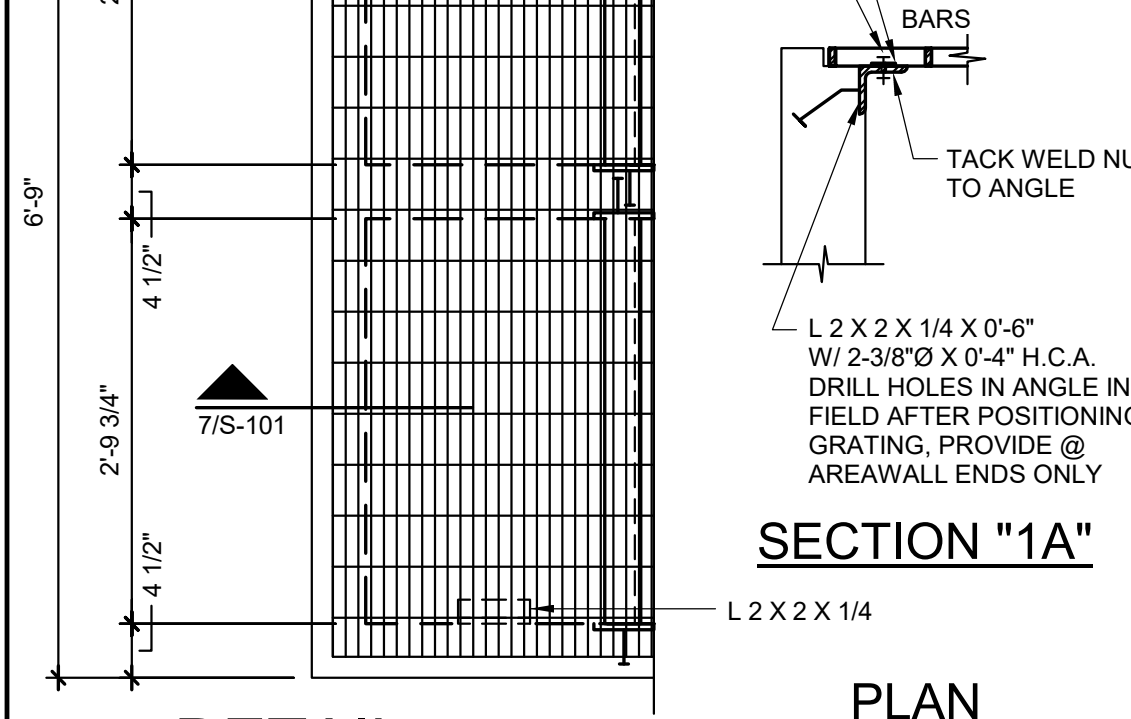
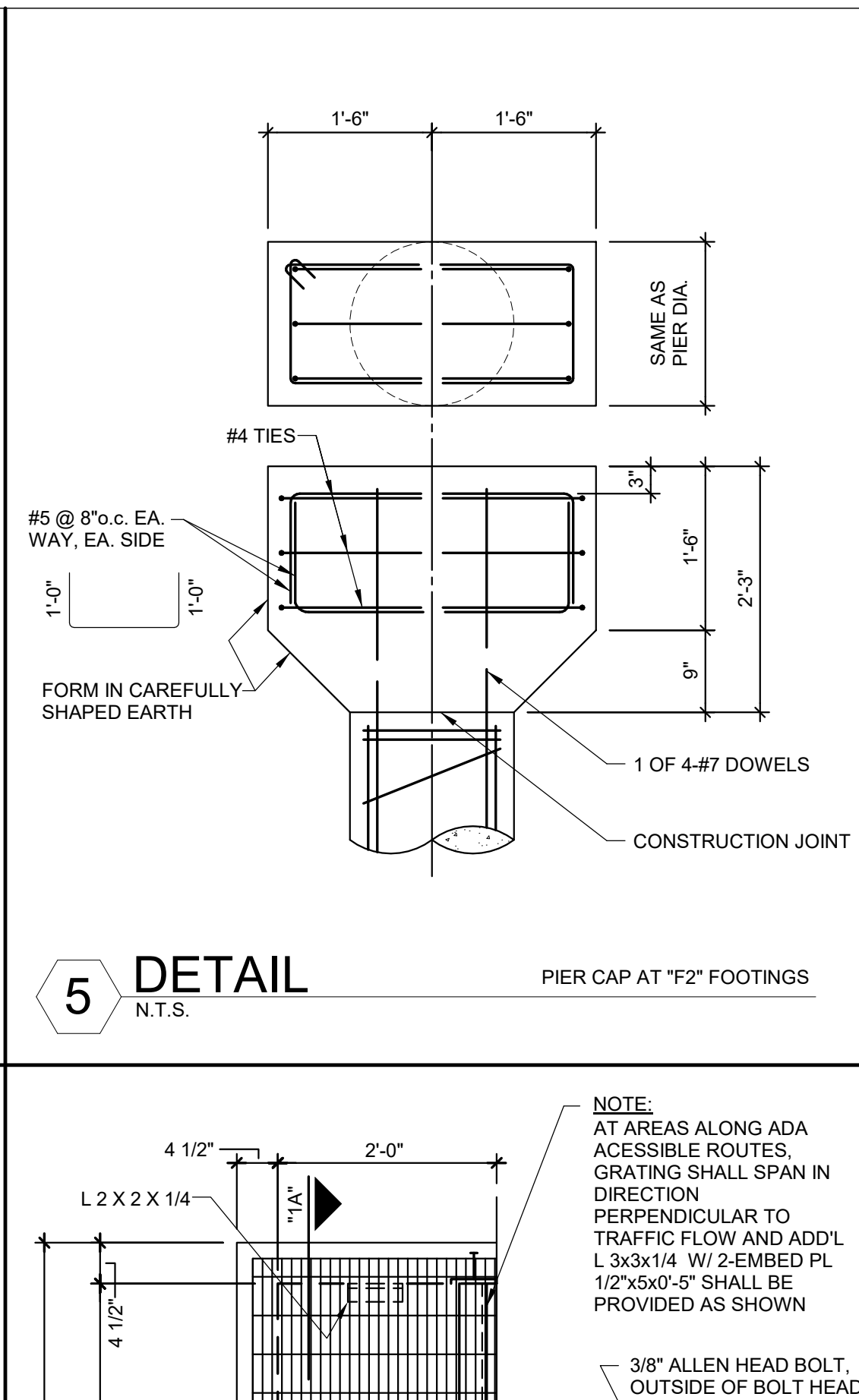
REINFORCING BAR LAP SPICE TABLE (SLABS AND WALLS)



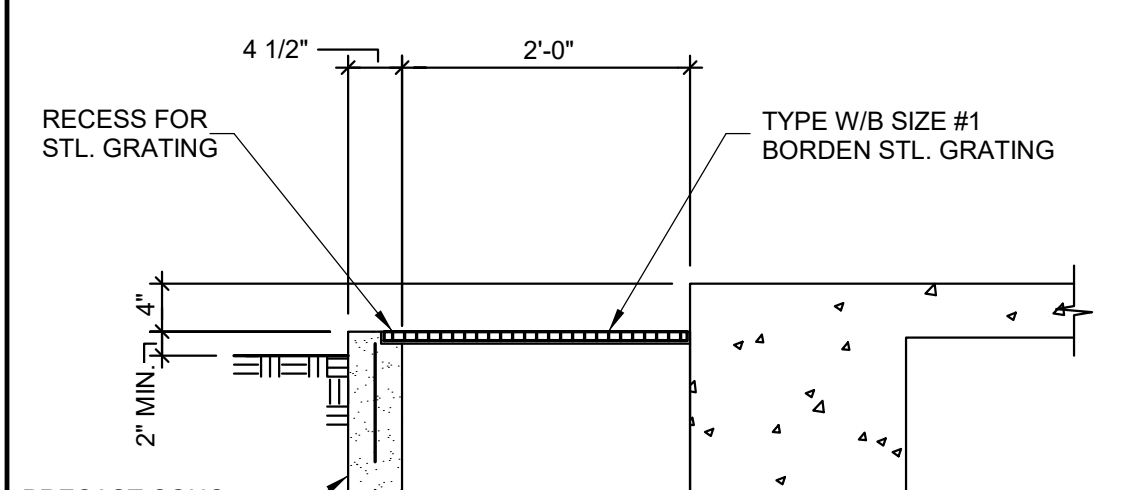
REINFORCING BAR LAP SPICE TABLE (SLABS AND WALLS)



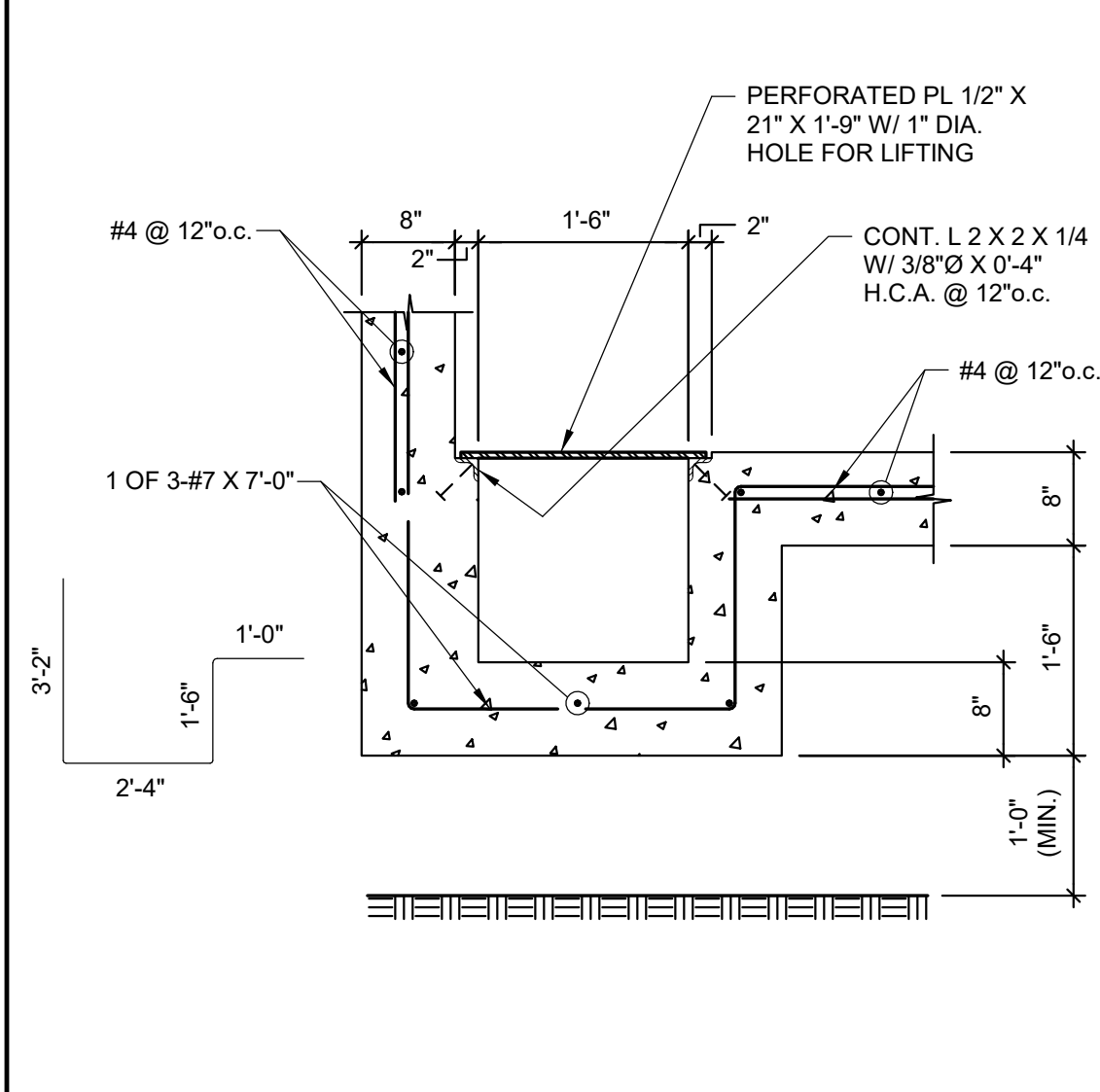
- CONCRETE NOTES: CN-4 PROVIDE BAR LAPS AND SPLICES PER REINFORCING BAR LAP SPICE TABLE ABOVE. SEE 'CONCRETE DETAILS' FOR CONTINUOUS BARS AT CORNERS. SPIRALS SHALL BE LAPPED 1-1/2 TURNS. WELDED WIRE MESH SHALL BE LAPPED A MINIMUM AT SPICE POINTS, OR 1-1/2 MESHES, WHICHEVER IS GREATEST. CN-5 CONTRACTOR 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 FOURS. 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.



6 DETAIL N.T.S.



7 DETAIL N.T.S.



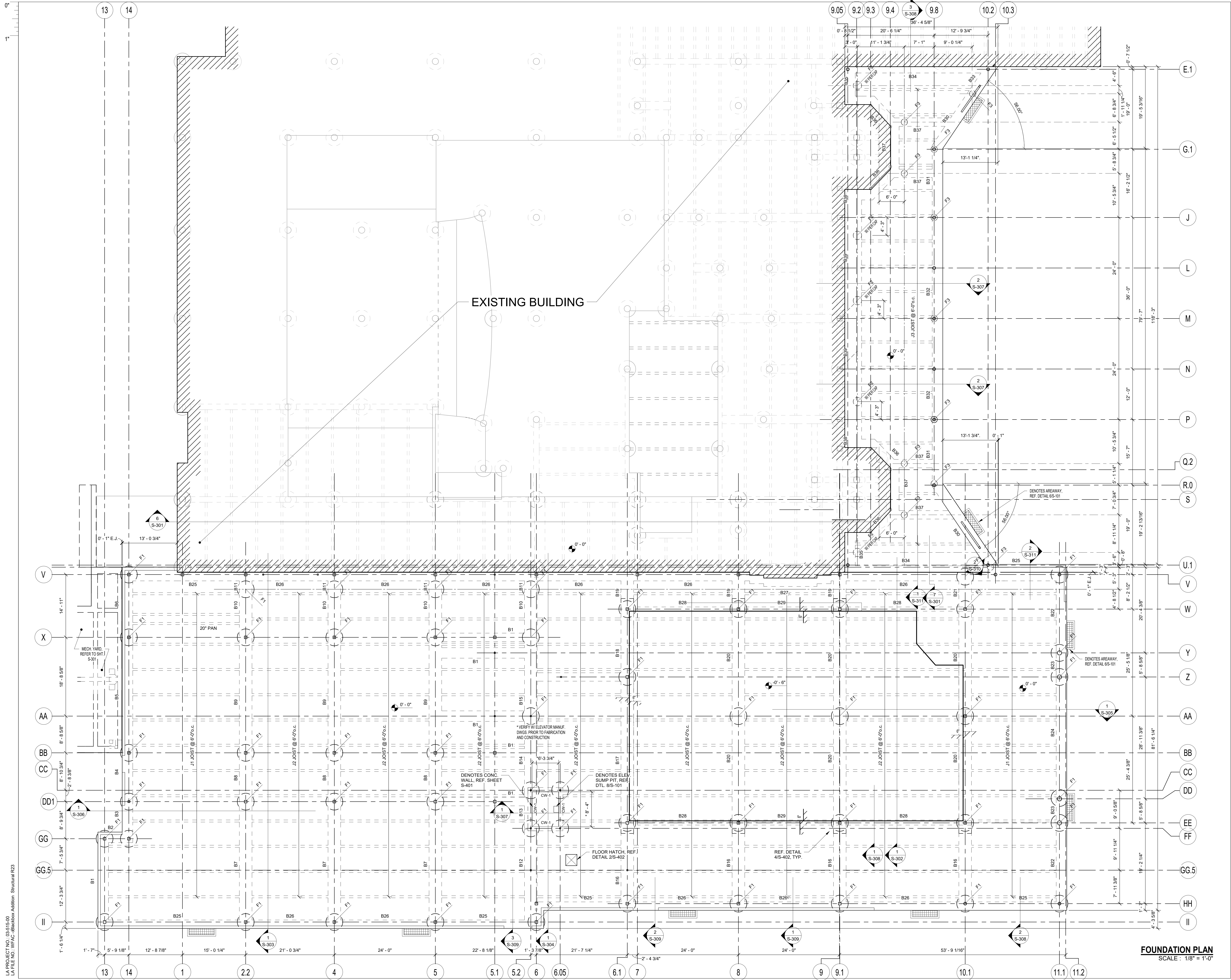
8 DETAIL N.T.S.

ISSUE FOR CONSTRUCTION





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

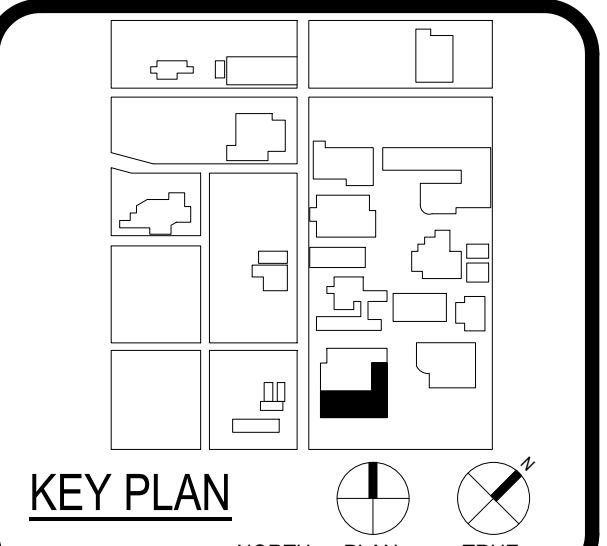
FOUNDATION PLAN  
SCALE: 1/8" = 1'-0"



ARCHITECT SAN ANTONIO PBK Architects, Inc.  
601 N.W. Loop 410, Suite 400  
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ENGINEERING  
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580 HEIMER ROAD PH 018 979-7900  
SAN ANTONIO, TEXAS 78232 FX 1210 979-7800  
TX FIRM REG. #3888

WFAC Black Box Addition PKG 1



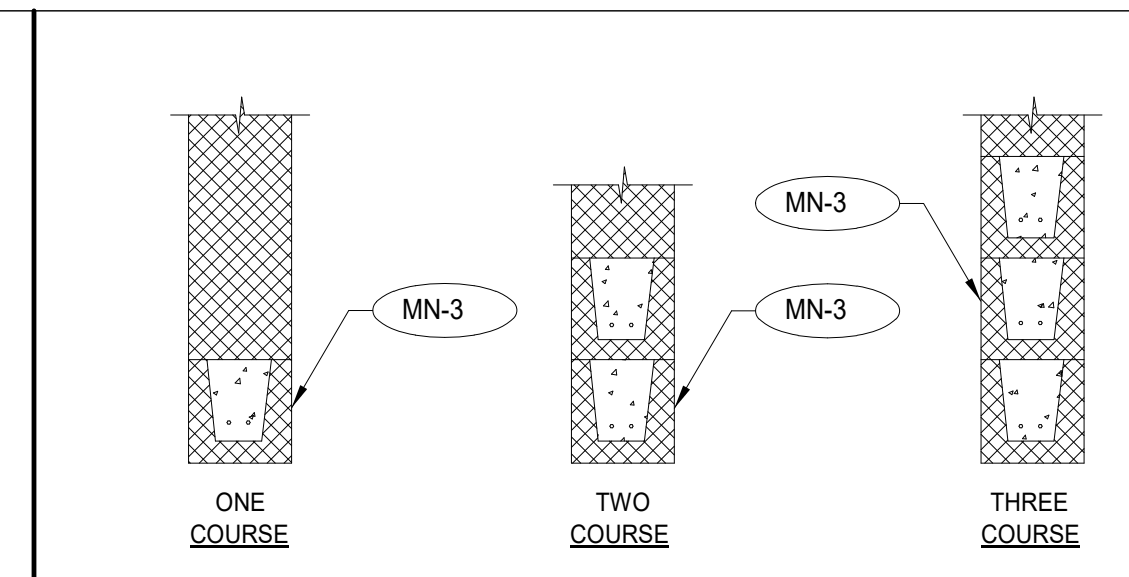
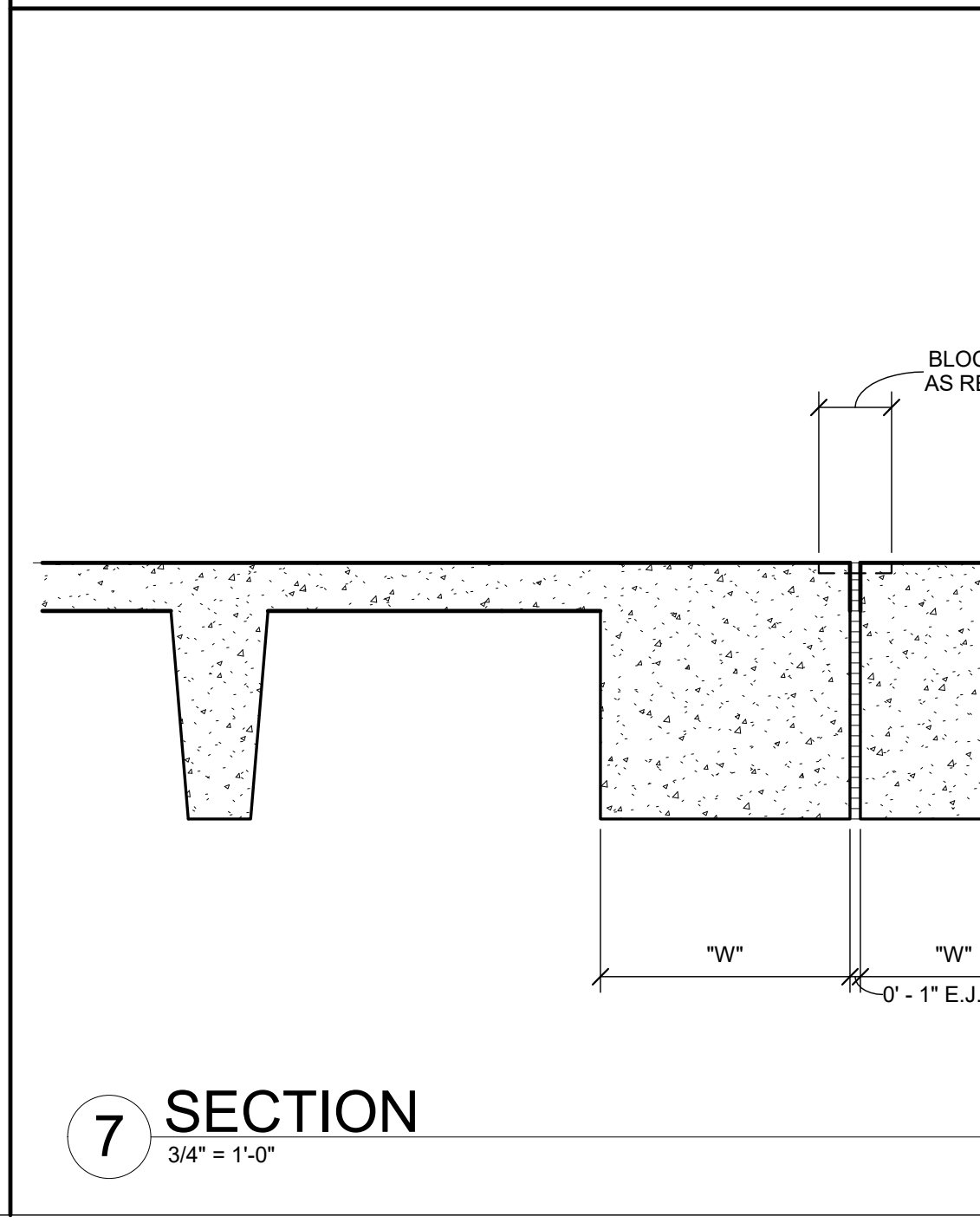
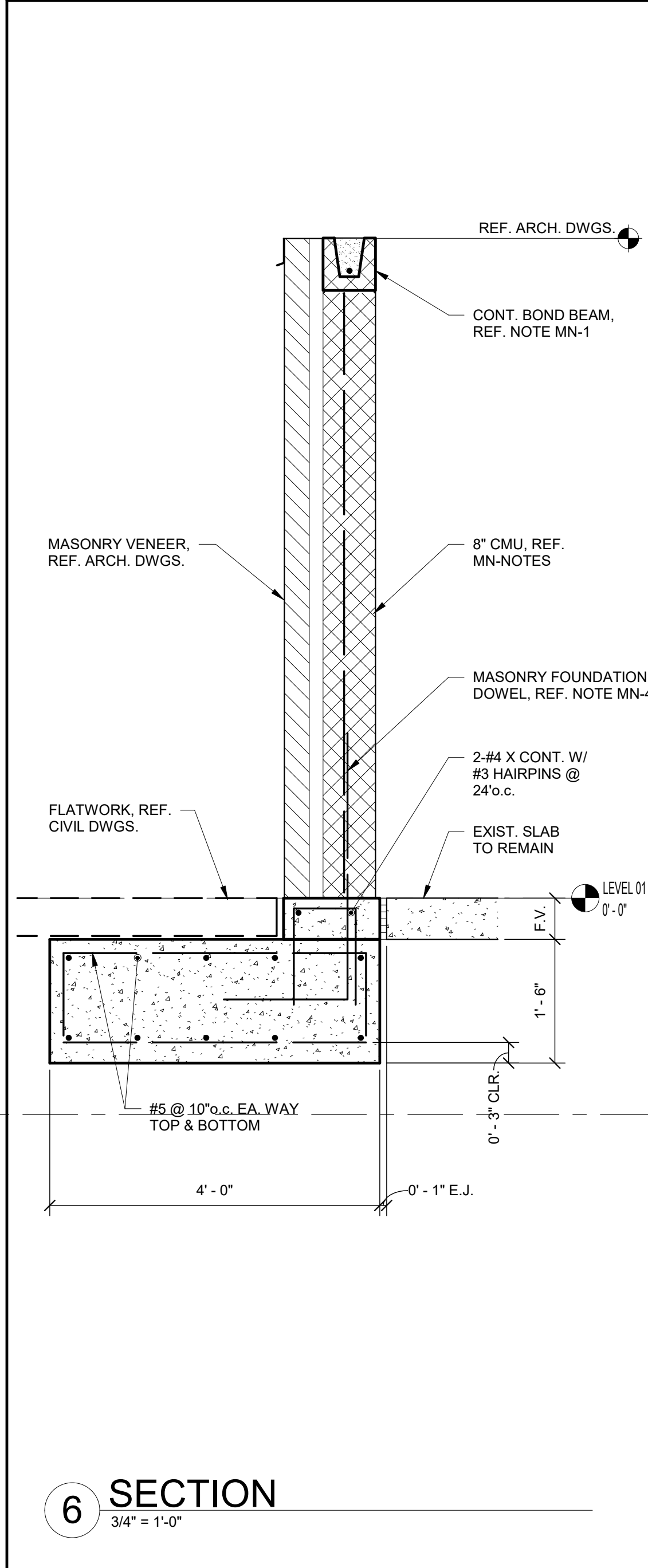
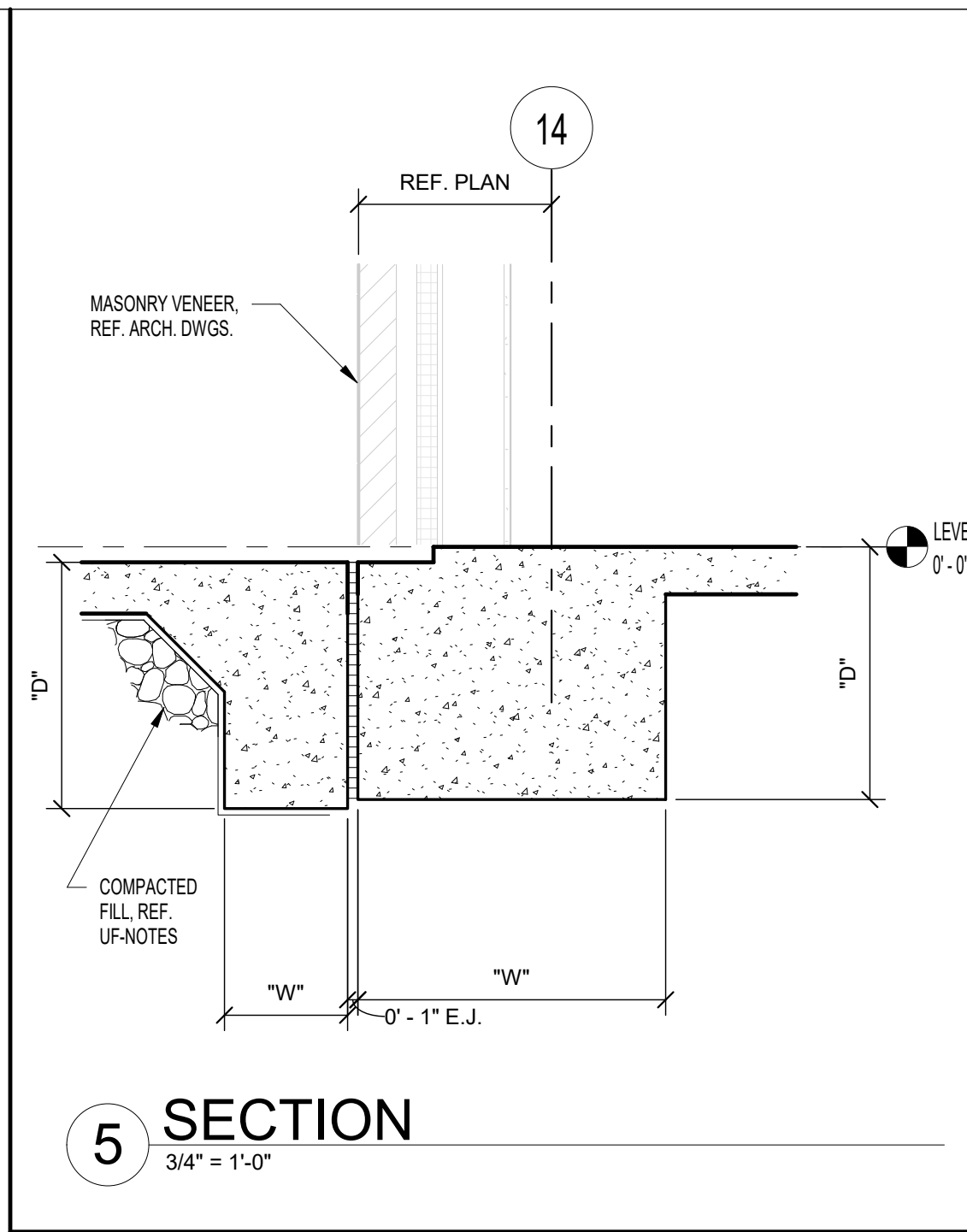
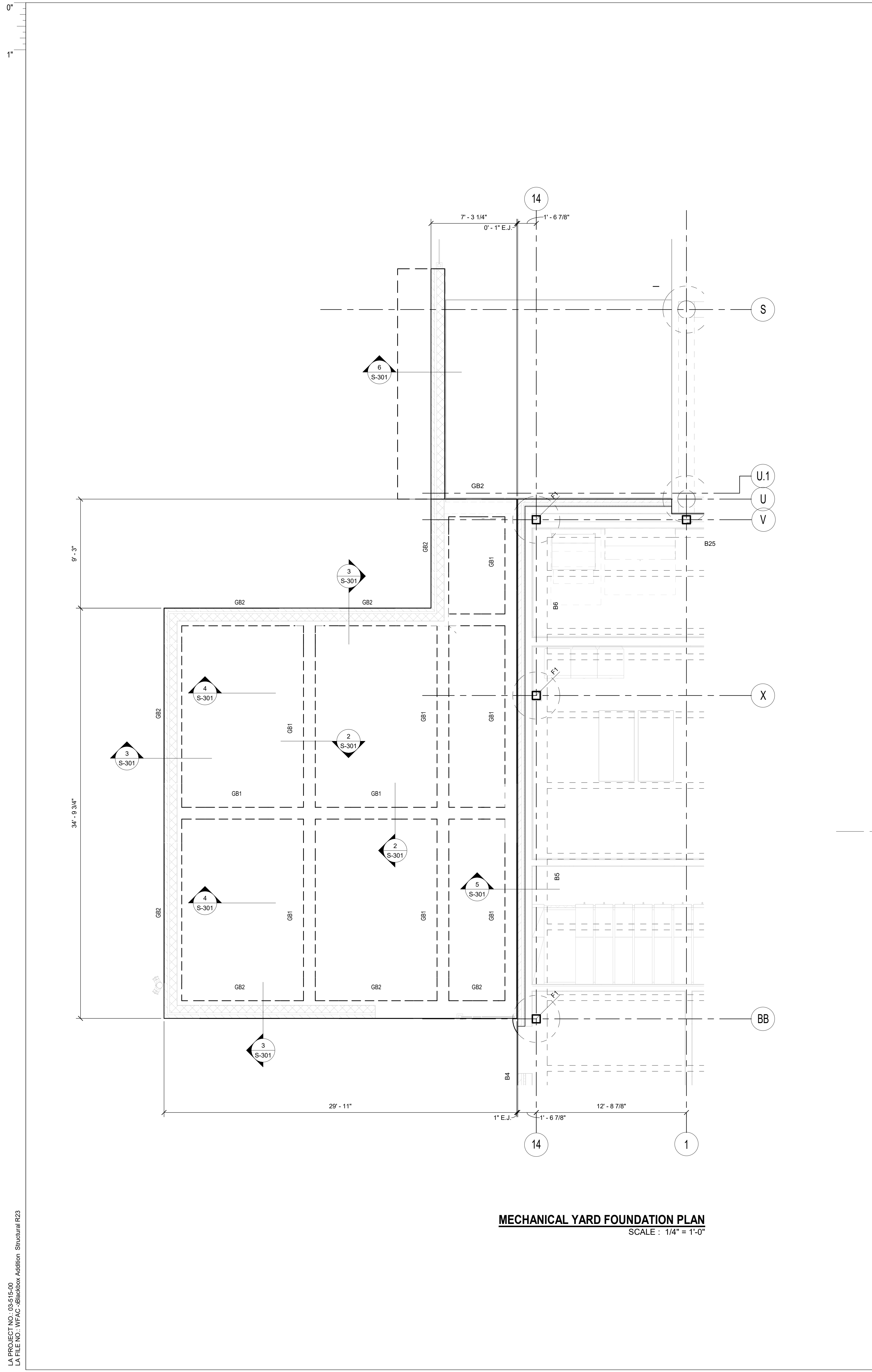
CLIENT: Alamo Colleges  
DATE: 2024/05/23 PROJECT NUMBER: 230462

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

ISSUE FOR CONSTRUCTION  
BUILDING NUMBER AB

FOUNDATION FRAMING PLAN

S-201



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

**MASONRY WALL REINFORCEMENT:**

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

**MN-2** BASIC VERTICAL REINFORCEMENT FOR EXTERIOR WALLS SHALL BE #4 @ 32" o.c. (EVERY 4th VERTICAL CELL).

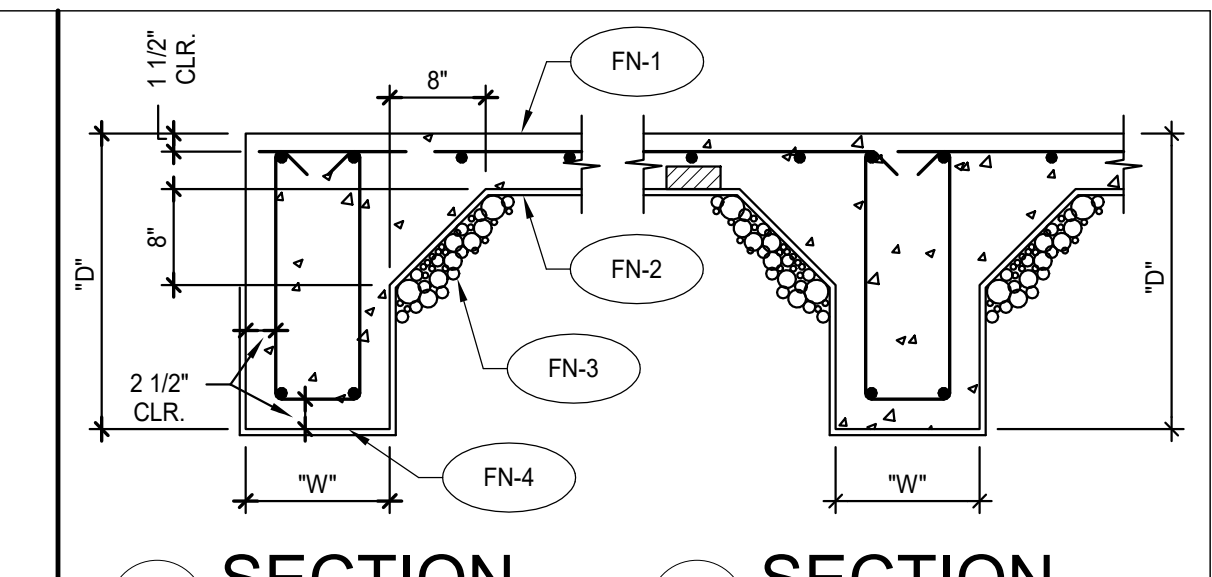
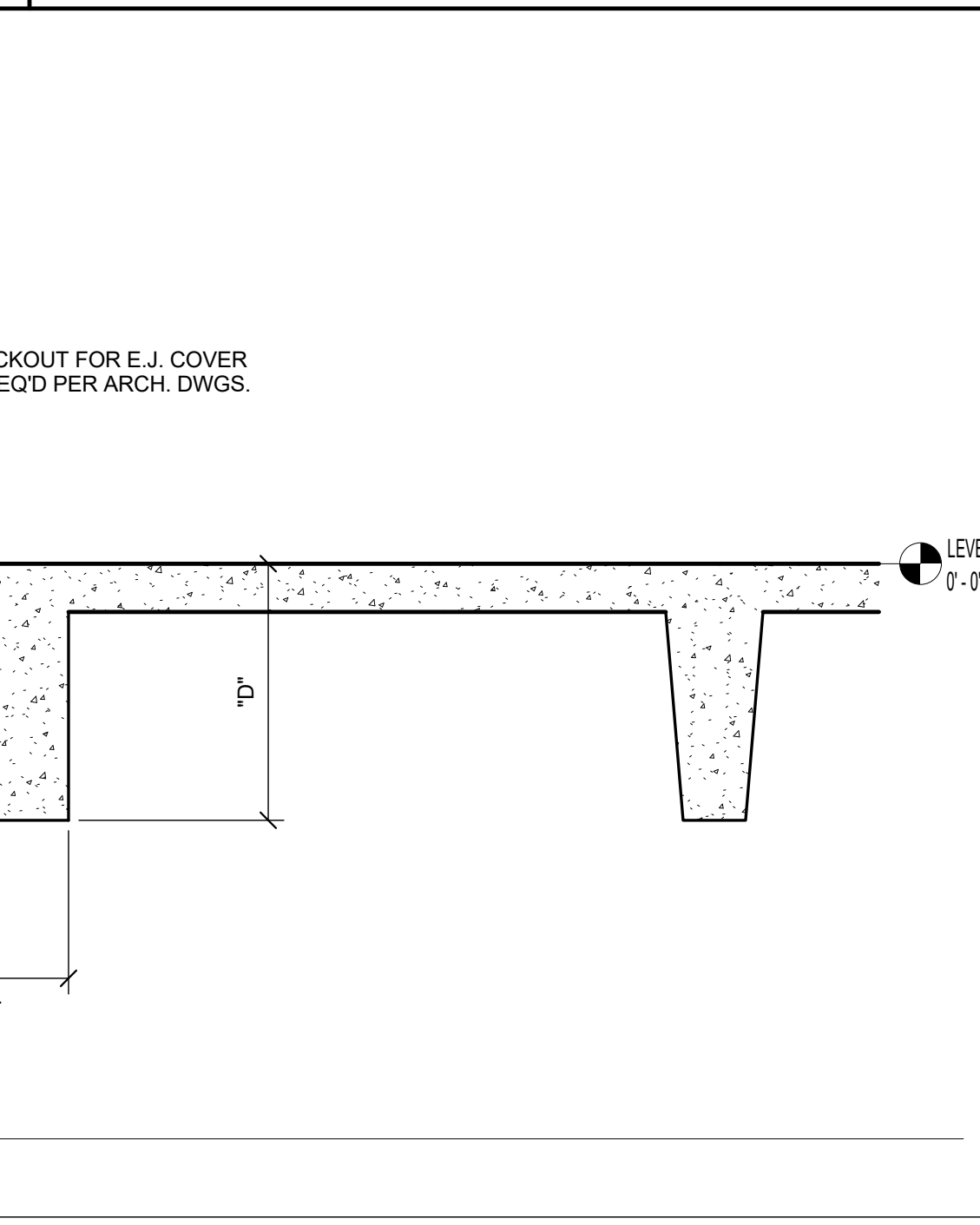
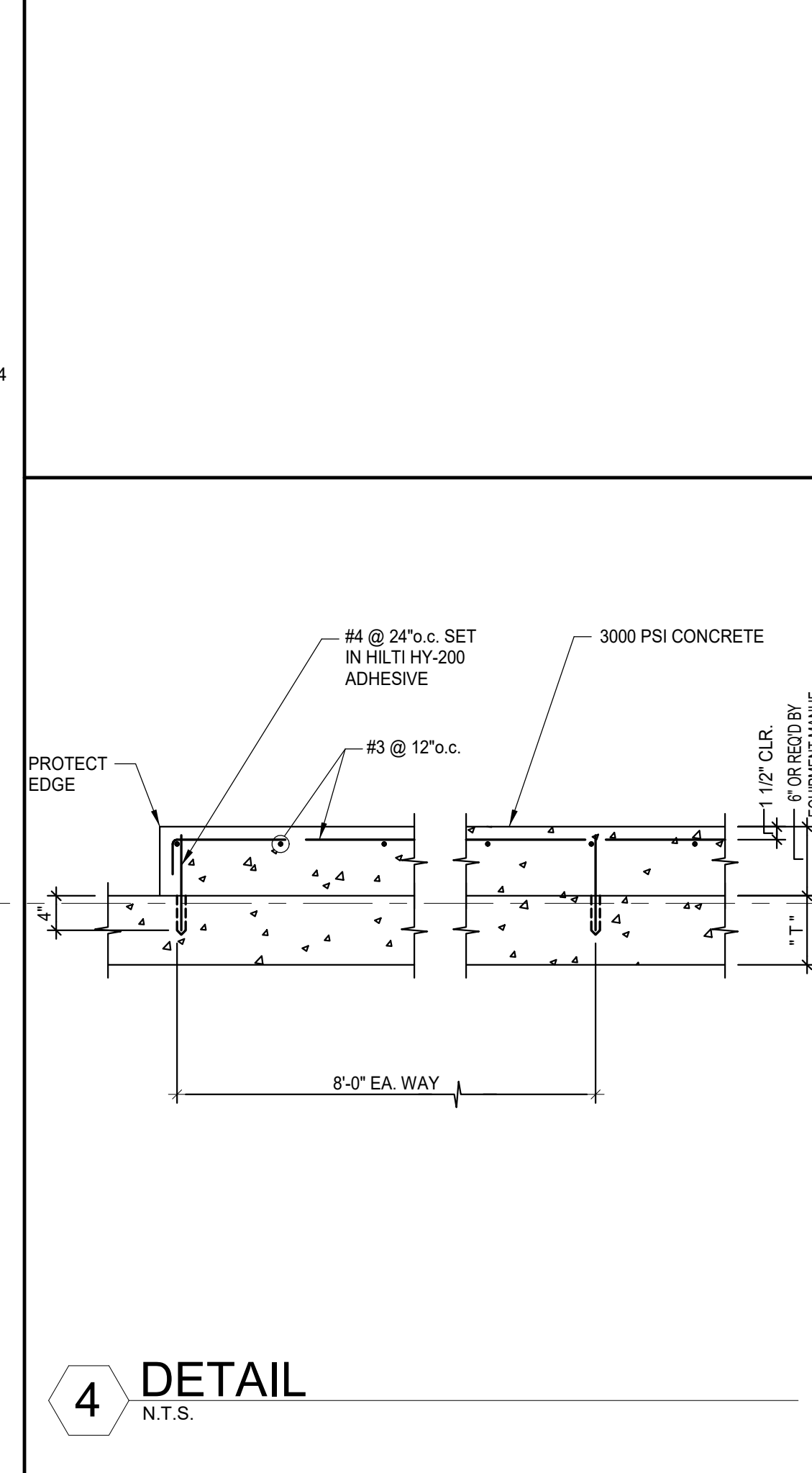
**MN-3** PROVIDE GROUDED REINFORCED LINTELS WITH 8" BEARING EACH END OF ALL DOORS, WINDOWS, AND OTHER OPENINGS. USE ONE-COURSE LINTELS FOR OPENINGS UP TO 4'-0"; TWO-COURSE LINTELS FOR OPENINGS UP TO 6'-6"; THREE-COURSE LINTELS FOR OPENINGS UP TO 14'-0". REINFORCE EACH COURSE WITH 2-#5 BAR CONTINUOUS.

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

**MN-5** CMU SHALL HAVE A UNIT STRENGTH OF 1,900 PSI. USE TYPE S MORTAR. REINFORCED CMU SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 11411 500 PSI. GROUT FOR FILLED CELLS SHALL BE MADE OF CEMENT, SAND AND PEA GRAVEL IN APPROXIMATE RATIO OF 1:3:2 AND SHALL HAVE 28-DAY COMPRESSIVE STRENGTH OF 2,500 PSI.

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

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



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

\* REF. NOTE FN-4

**FOUNDATION NOTES:**

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

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

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

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

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

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

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

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

**UNDERFLOOR FILL NOTES:**

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

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

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

**UF-4** THE RESULTING SURFACE SHALL BE PROOF ROLLED WITH A SUFFICIENTLY HEAVY ROLLER (15 TONS) TO LOCATE AND DENSITY WEAK AND COMPRESSIBLE ZONES. A MINIMUM OF 6 PHASSES OF THE ROLLER IS REQUIRED. ANY SOFT SPOTS SHALL BE REMOVED AND REPLACED WITH COMPACTED SELECT FILL.

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

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

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

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

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

**PBK ARCHITECTS, Inc.**  
 601 N.W. Loop 410, Suite 400  
 San Antonio, TX 78216  
 210-820-0123 P  
 210-823-5578 F  
 TX Firm BR 1608

---

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

---

**ALAMO COLLEGES**  
 ST. PHILIP'S COLLEGE

---

**KEY PLAN**  
 NORTH PLAN TRUE

---

DATE: 06/12/2024  
**SHAWN J. FRANKE**  
 82639  
 LICENSED PROFESSIONAL ENGINEER

---

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

No.	Description	Date

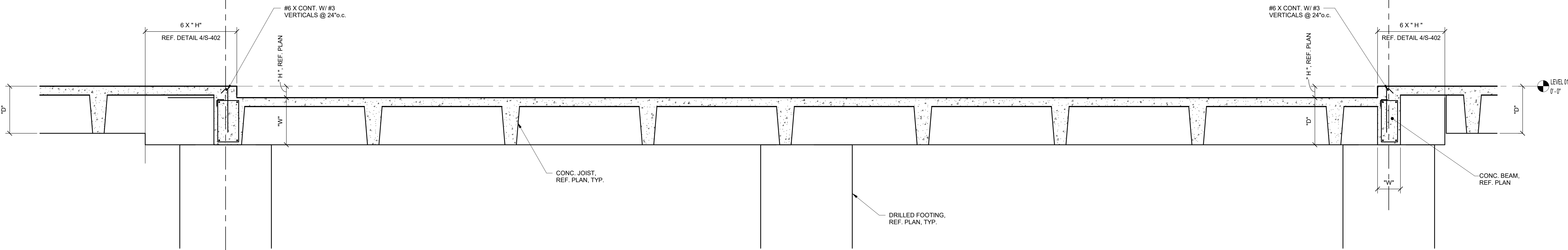
**ISSUE FOR CONSTRUCTION**  
 BUILDING NUMBER: AB

**SECTIONS, DETAILS & MECH. YARD FOUNDATION**

S-301

# ISSUE FOR CONSTRUCTION

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



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

EE

W

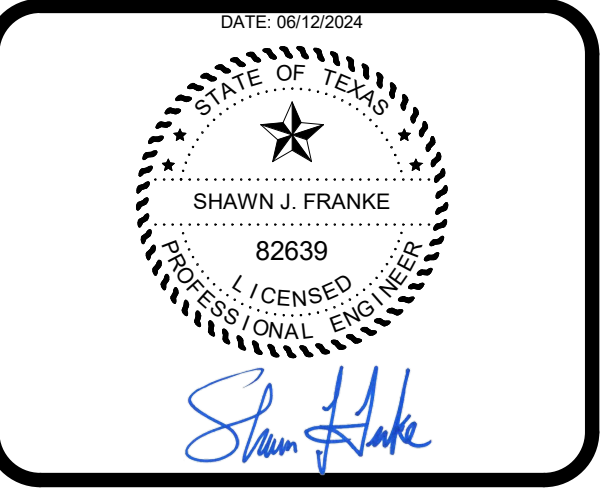
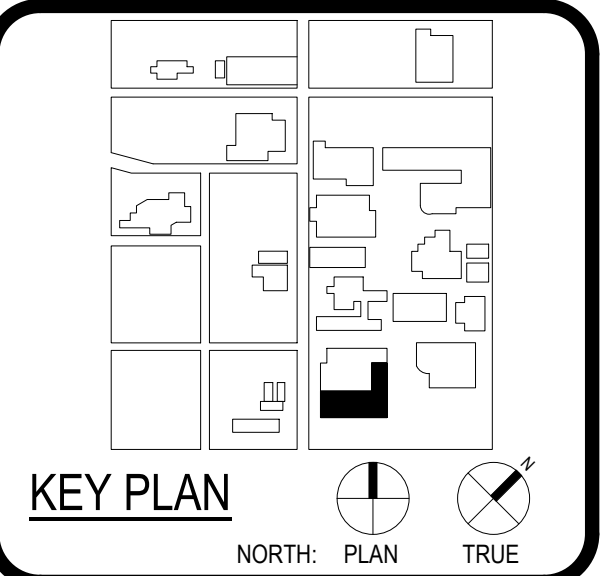


ARCHITECT	PBK Architects, Inc. 601 N.W. Loop 410, Suite 400 San Antonio, TX 78216 210-829-0123 P 210-829-5578 F TX Firm BR 1606
ASSOCIATE ARCHITECT	BA ARCHITECTS 1111 N. Loop West San Antonio, TX 78205
CONSULTANT	LANDSCAPE LUNDEY & FRANK 1111 N. Loop West San Antonio, TX 78205
STRUCTURAL	LUNDEY & FRANK ENGINEERING 1111 N. Loop West San Antonio, TX 78205
MECHANICAL	MECHANICAL 1111 N. Loop West San Antonio, TX 78205
ELECTRICAL	ELECTRICAL 1111 N. Loop West San Antonio, TX 78205
PLUMBING	PLUMBING 1111 N. Loop West San Antonio, TX 78205
MEASUREMENT	MEASUREMENT 1111 N. Loop West San Antonio, TX 78205



WFAC Black Box Addition PKG 1

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

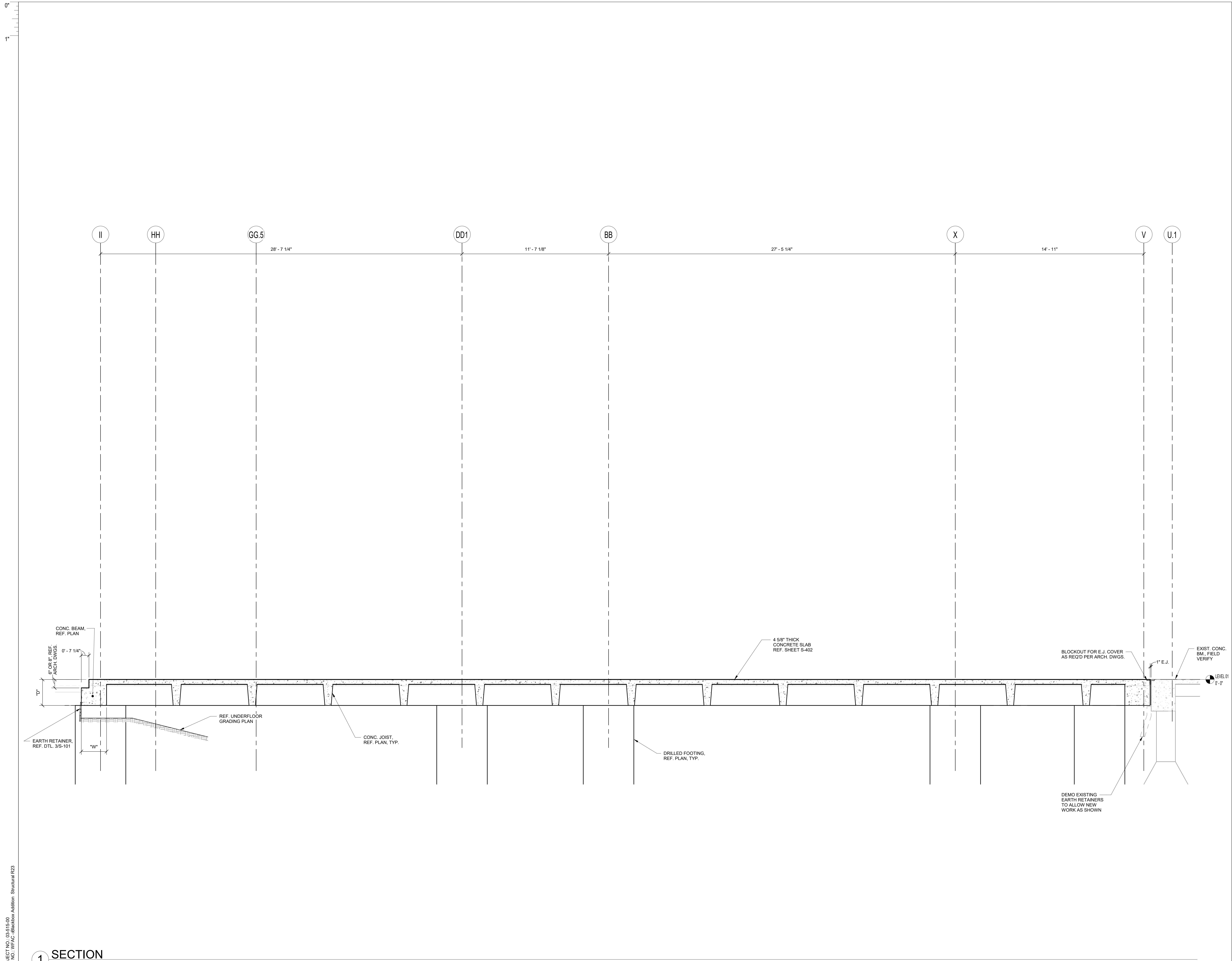


CLIENT		Alamo Colleges
DATE	PROJECT NUMBER	230462
2024/05/23		
DRAWING HISTORY		
No.	Description	Date
ISSUE FOR CONSTRUCTION		
BUILDING NUMBER	AB	

**SECTION**

**S-302**

# ISSUE FOR CONSTRUCTION



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

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



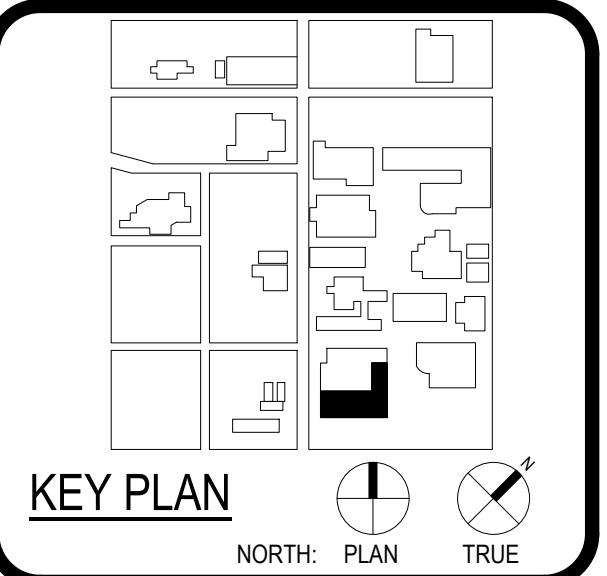
ARCHITECT	PBK Architects, Inc.
SAN ANTONIO 601 N.W. Loop 410, Suite 400 San Antonio, TX 78216 210-820-0123 P 210-829-5578 F TX Firm BR 1606	
ASSOCIATE ARCHITECT	BA & ARCHITECTS
CONTRACTOR	CONTRACTOR
LANDSCAPE ARCHITECT	LANDSCAPE ARCHITECT
MECHANICAL ENGINEER	MECHANICAL ENGINEER
ELECTRICAL ENGINEER	ELECTRICAL ENGINEER
CIVIL ENGINEER	CIVIL ENGINEER
STRUCTURAL ENGINEER	STRUCTURAL ENGINEER
PLUMBING ENGINEER	PLUMBING ENGINEER
MECHANICAL ENGINEER	MECHANICAL ENGINEER
LANDSCAPE ARCHITECT	LANDSCAPE ARCHITECT
ARCHITECT	ARCHITECT

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

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FX: (210) 979-7800

WFAC Black Box Addition PKG 1

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



DATE: 06/12/2024

SHAWN J. FRANKE  
82639  
LICENSED PROFESSIONAL ENGINEER

*Shawn Franke*

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

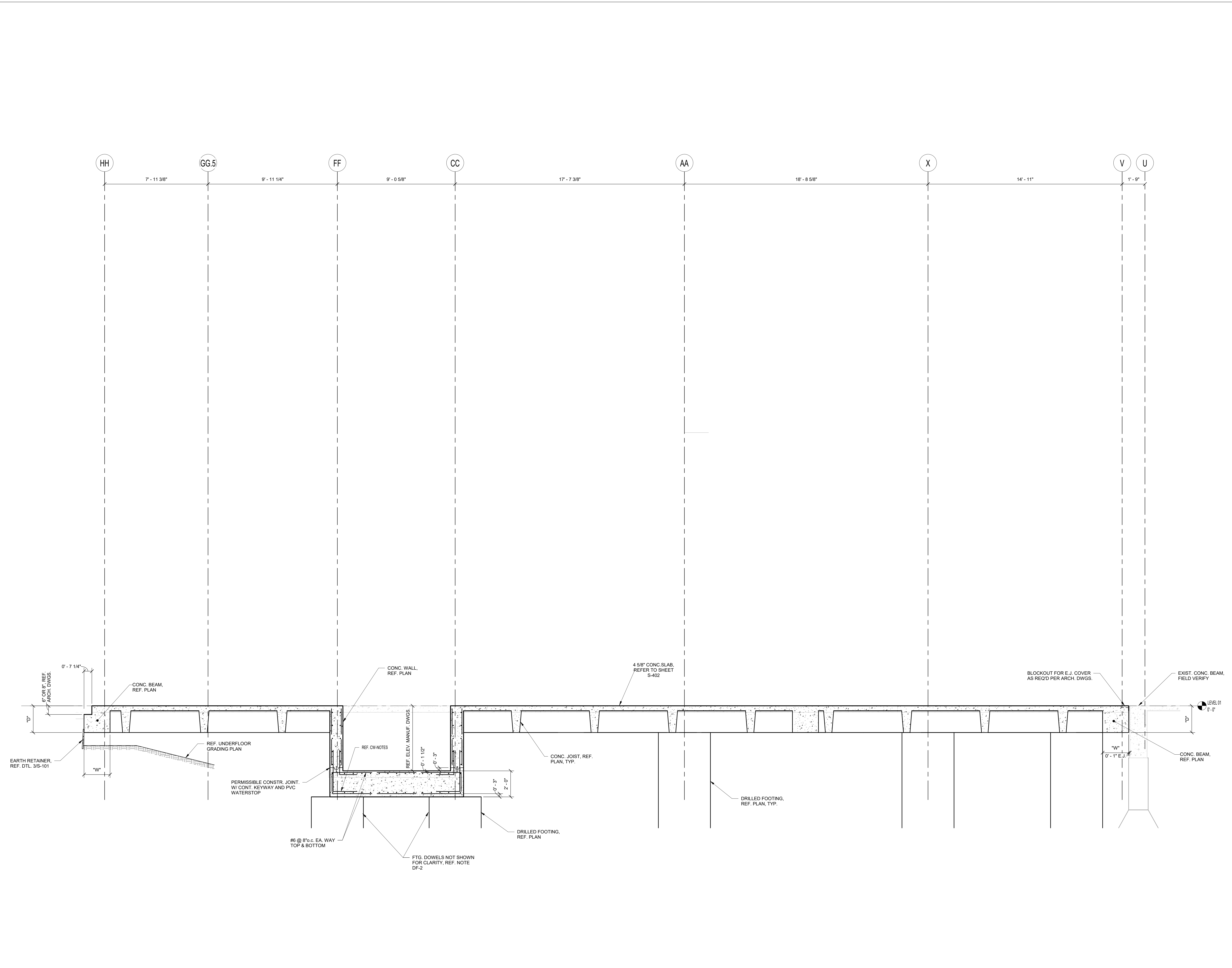
ISSUE FOR CONSTRUCTION  
BUILDING NUMBER AB

SECTION

**S-303**

# ISSUE FOR CONSTRUCTION

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



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

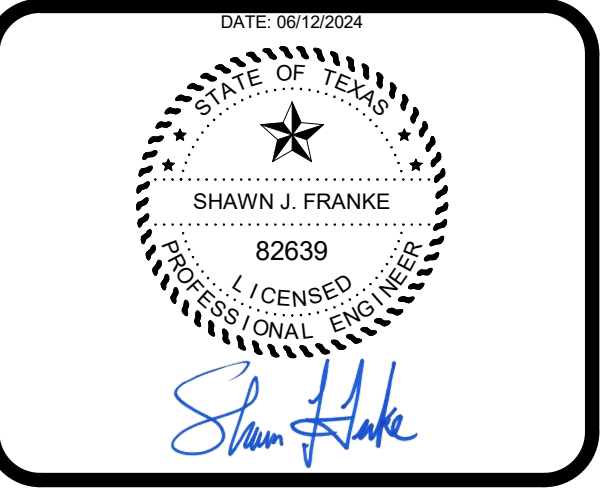
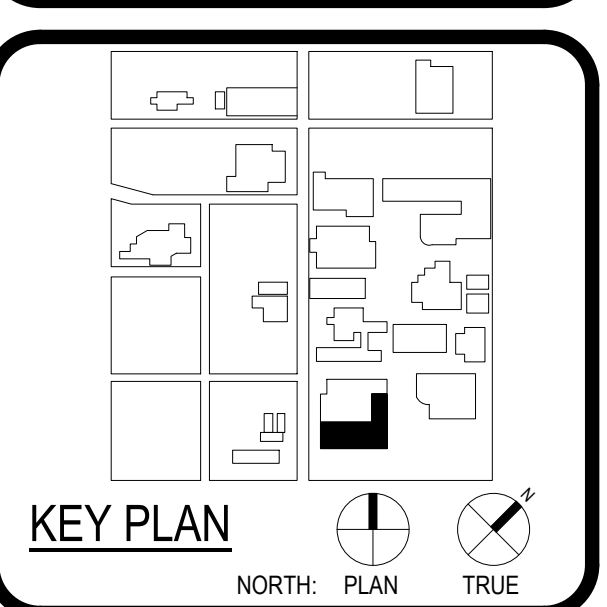
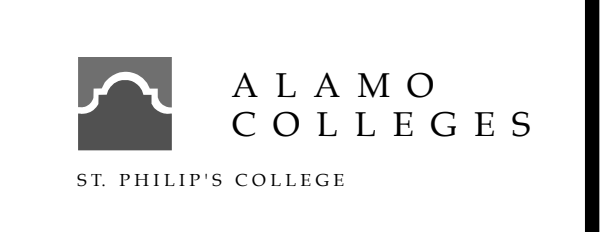


ARCHITECT	PBK Architects, Inc.
SAN ANTONIO	
601 N.W. Loop 410, Suite 400	
San Antonio, TX 78216	
210-820-0123 P	
210-829-5578 F	
TX Firm BR 1608	
ASSOCIATE ARCHITECT	BA ARCHITECTS
OWNER	ALAMO COLLEGES
DESIGNER	LUNDY & FRANKE ENGINEERING
LANDSCAPE	LANDSCAPE ARCHITECTS
ROOF AND DRIP	LANDSCAPE ARCHITECTS
STRUCTURAL	LUNDY & FRANKE ENGINEERING
MECHANICAL	MECHANICAL ENGINEERS
ELECTRICAL	ELECTRICAL ENGINEERS
PLUMBING	PLUMBING ENGINEERS
MECHANICAL	MECHANICAL ENGINEERS
PLUMBING	PLUMBING ENGINEERS
MECHANICAL	MECHANICAL ENGINEERS



**WFAC Black Box Addition PKG 1**

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



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

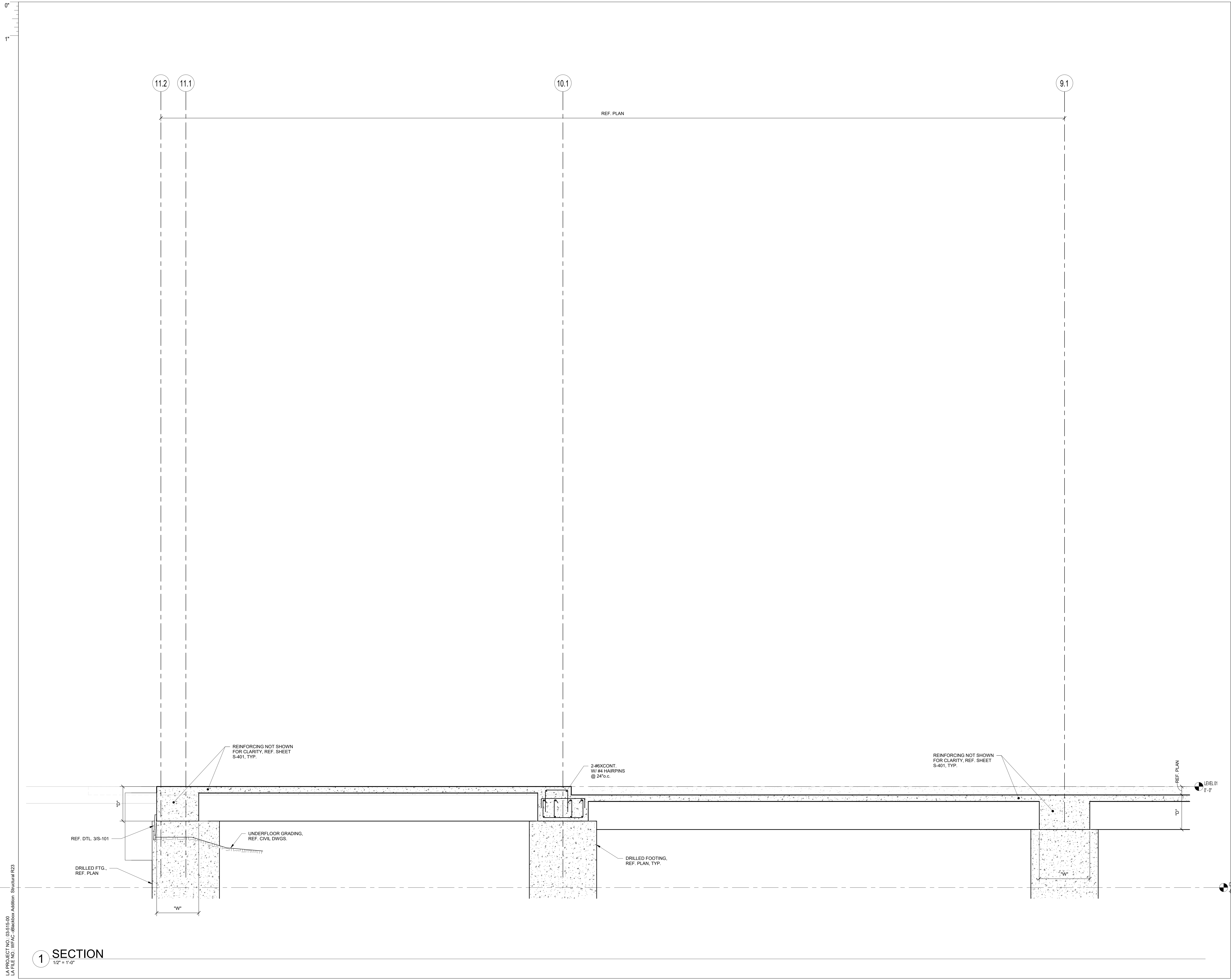
**ISSUE FOR CONSTRUCTION**

BUILDING NUMBER **AB**

**SECTION**

**S-304**

# ISSUE FOR CONSTRUCTION



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

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

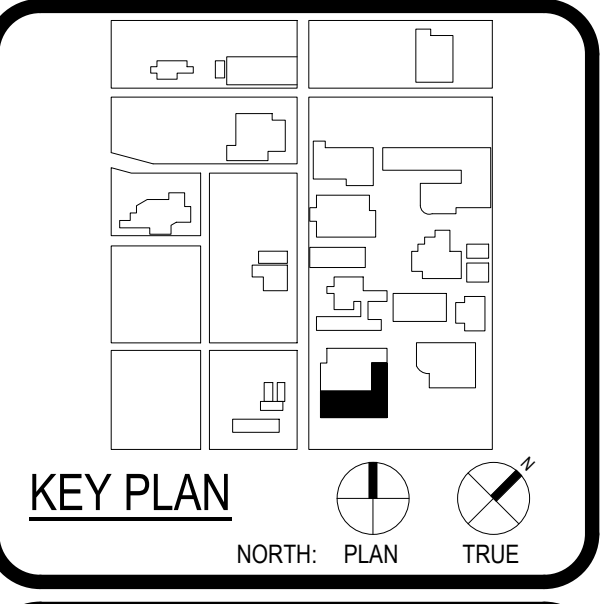


ARCHITECT	PBK Architects, Inc.
SAN ANTONIO 601 N.W. Loop 410, Suite 400 San Antonio, TX 78216 210-829-0123 P 210-829-5578 F TX Firm BR 1806	
ASSOCIATE ARCHITECT	BA & ARCHITECTS
CONSULTANT	BA & ARCHITECTS
DESIGNER	BA & ARCHITECTS
LANDSCAPE	BA & ARCHITECTS
ROOF AND CEILING	BA & ARCHITECTS
STRUCTURAL	LUNDY & FRANKE ENGINEERING
M.E.P.	LUNDY & FRANKE ENGINEERING
MECHANICAL	LUNDY & FRANKE ENGINEERING
ELECTRICAL	LUNDY & FRANKE ENGINEERING
PROFESSIONAL SEAL	LUNDY & FRANKE ENGINEERING
SCALE	LUNDY & FRANKE ENGINEERING
DATE	LUNDY & FRANKE ENGINEERING



WFAC Black Box Addition PKG 1

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



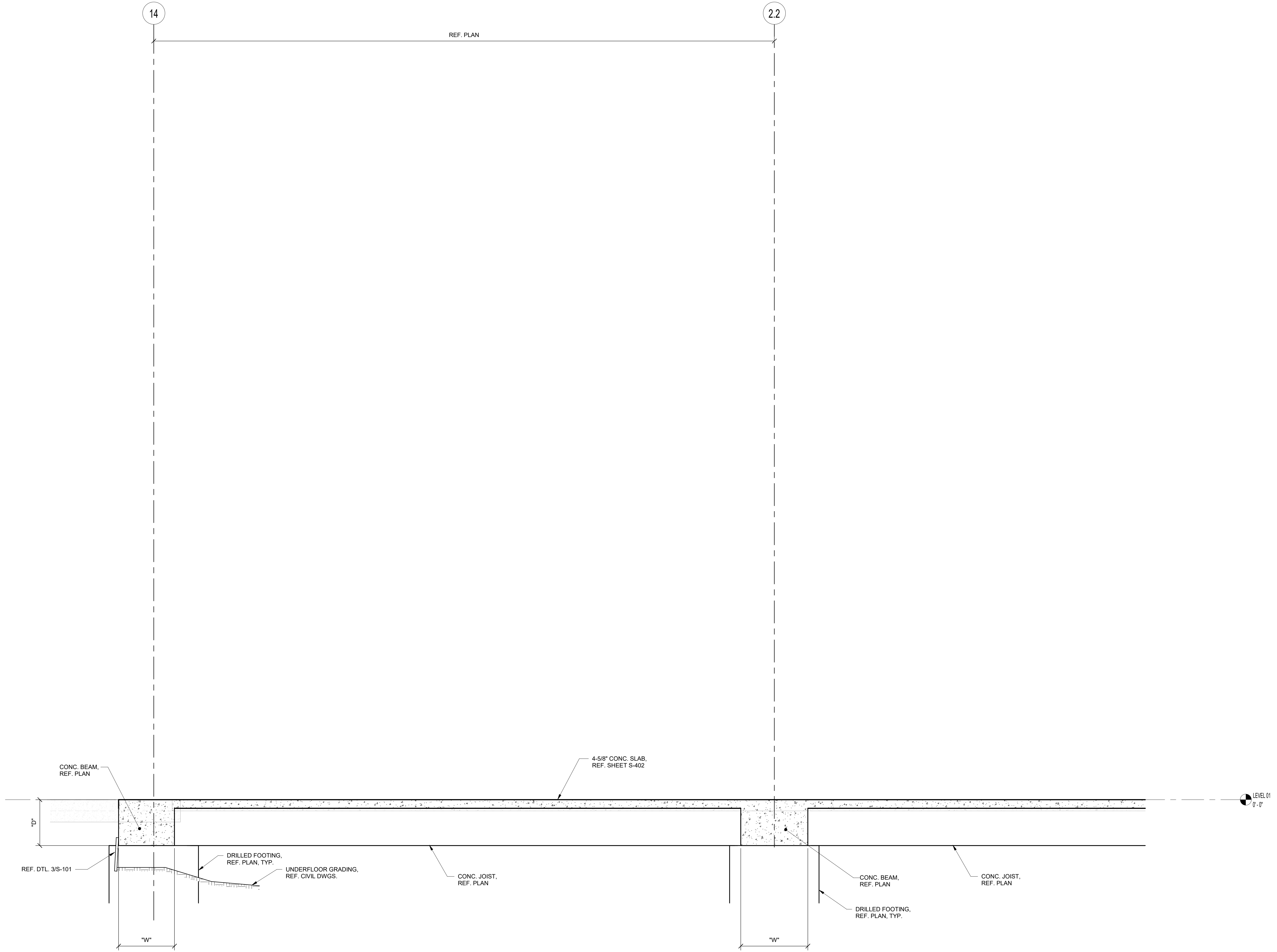
CLIENT		
Alamo Colleges		
DATE	PROJECT NUMBER	
2024/05/23	230462	
DRAWING HISTORY		
No.	Description	Date

ISSUE FOR CONSTRUCTION	
BUILDING NUMBER	AB
SECTION	

## S-305

# ISSUE FOR CONSTRUCTION

0'  
1'



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

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

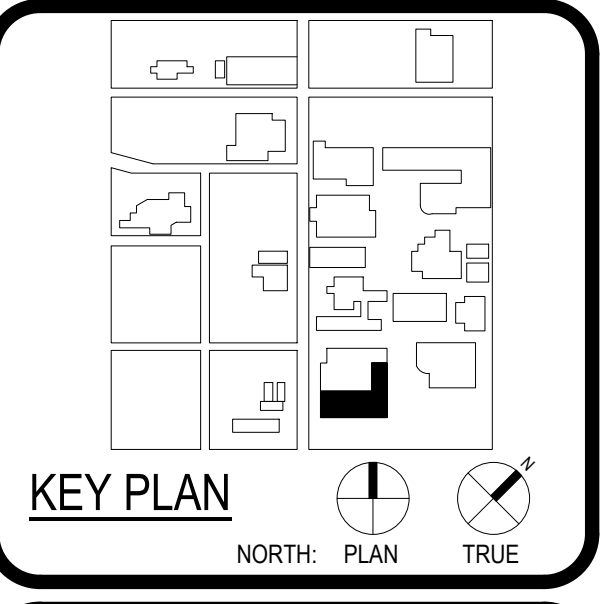


ARCHITECT PBK Architects, Inc.  
SAN ANTONIO  
601 N.W. Loop 410, Suite 400  
San Antonio, TX 78216  
210-829-0123 P  
210-829-0578 F  
TX Firm BR 1606

**LUNDY & FRANKE**  
ENGINEERING  
548 HEIMER ROAD PH 018 979-7900  
SAN ANTONIO, TEXAS 78232 FX 210 979-7800  
TX FIRM REG. #3388

WFAC Black Box Addition PKG 1

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



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

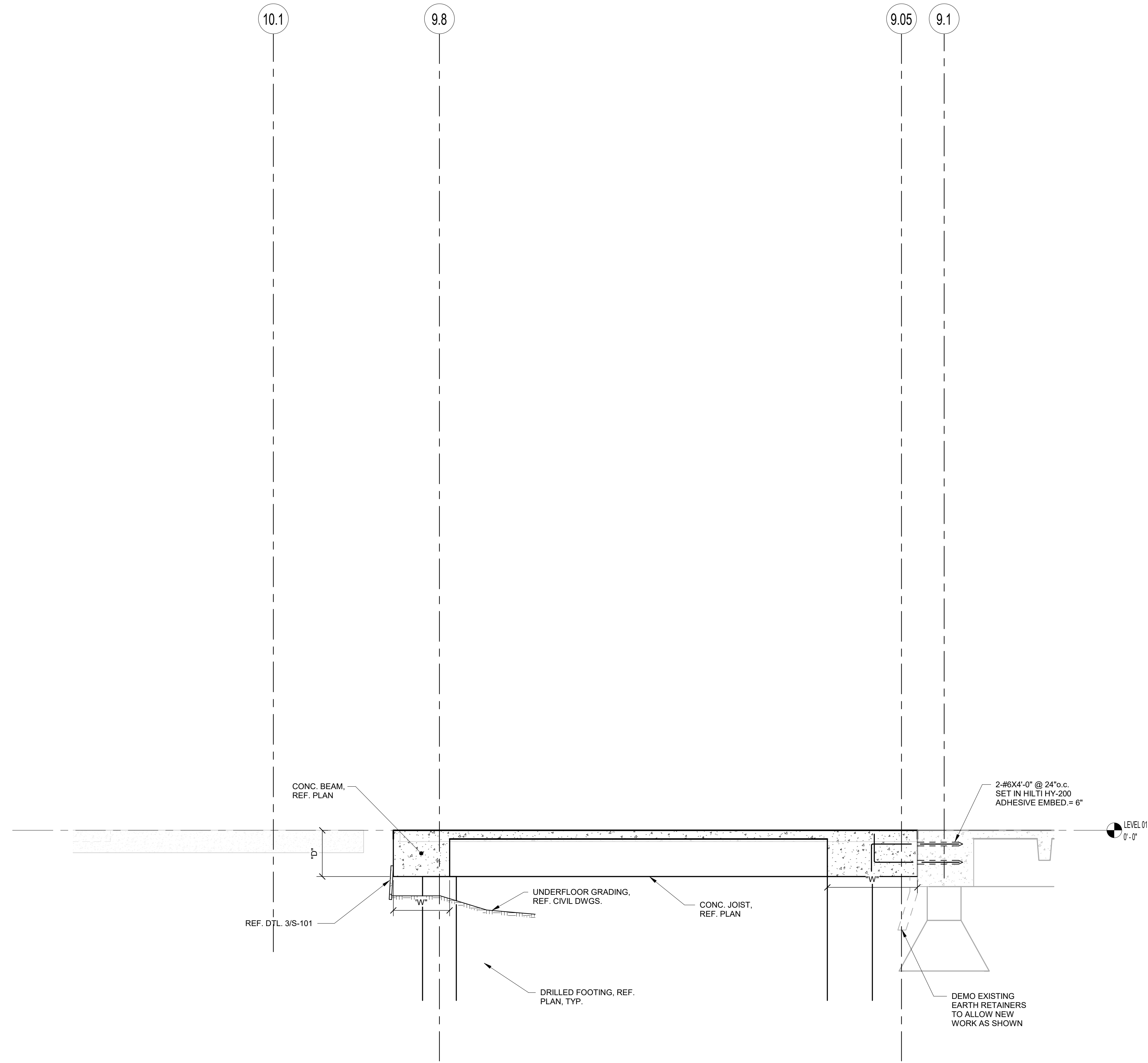
ISSUE FOR CONSTRUCTION  
BUILDING NUMBER AB

**S-306**

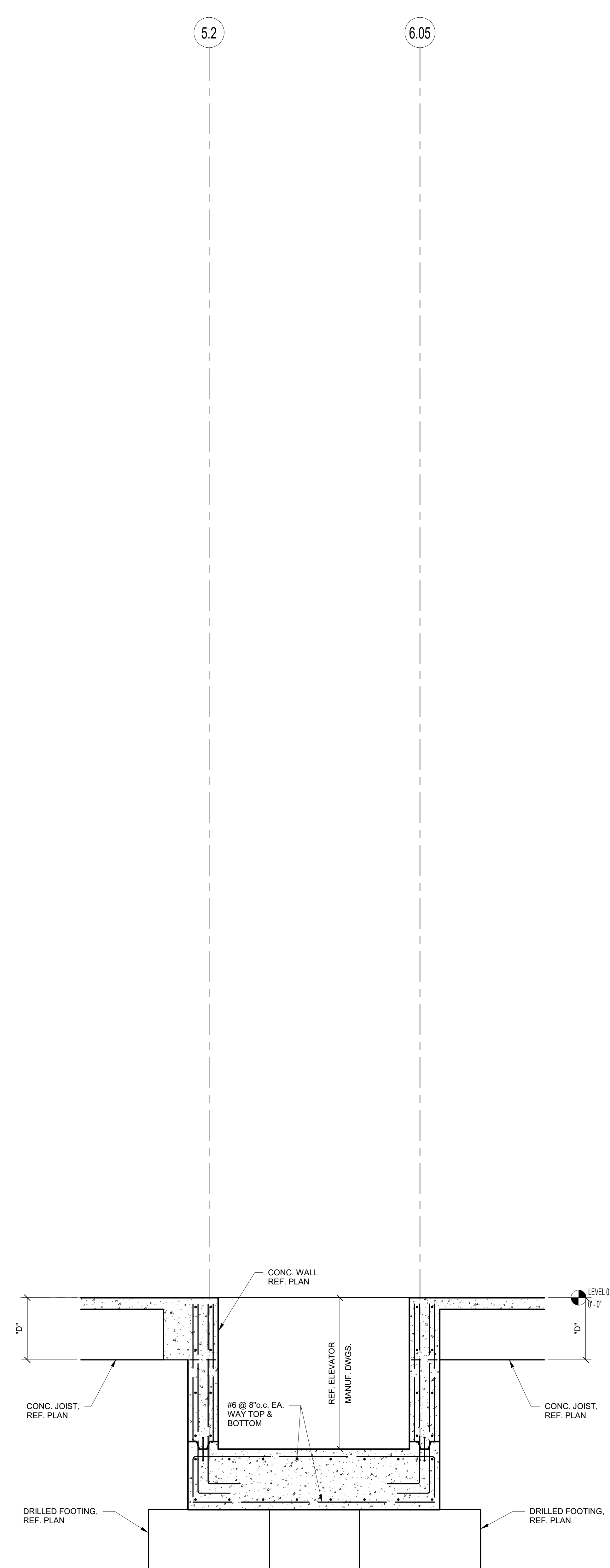


# ISSUE FOR CONSTRUCTION

LA PROJECT NO.: 09316-00  
LA FILE NO.: WFAC-03blackbox Addition Structural R23



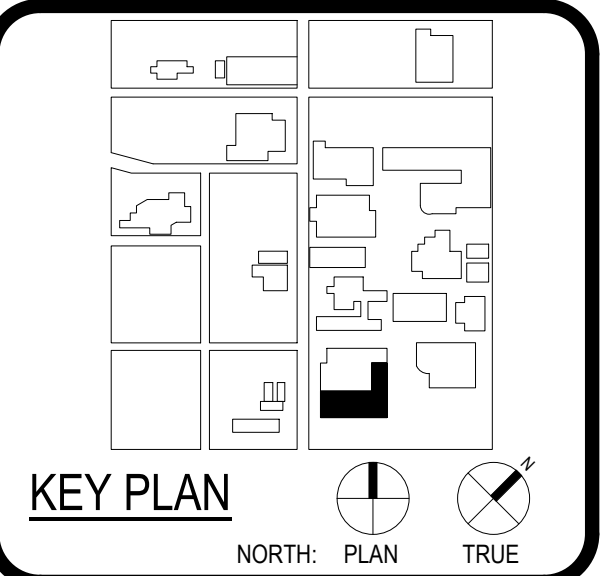
NOT USED



ARCHITECT PBK Architects, Inc.  
SAN ANTONIO  
601 N.W. Loop 410, Suite 400  
San Antonio, TX 78216  
210-820-0123 P  
210-829-5578 F  
TX Firm BR 1606

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

WFAC Black Box Addition PKG 1



SHAWN J. FRANKE  
82639  
LICENSED PROFESSIONAL ENGINEER

CLIENT: Alamo Colleges

DATE: 2024/05/23 PROJECT NUMBER: 230462

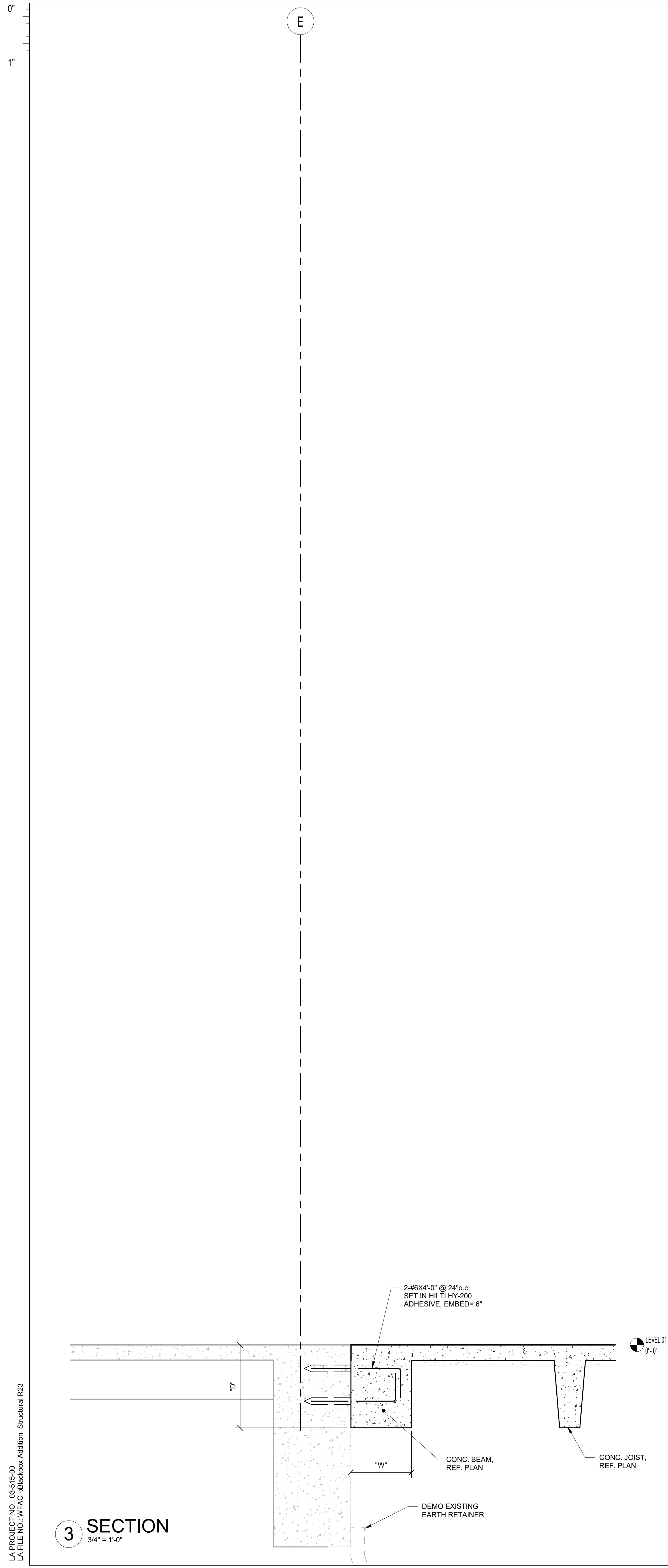
No.	Description	Date

ISSUE FOR CONSTRUCTION

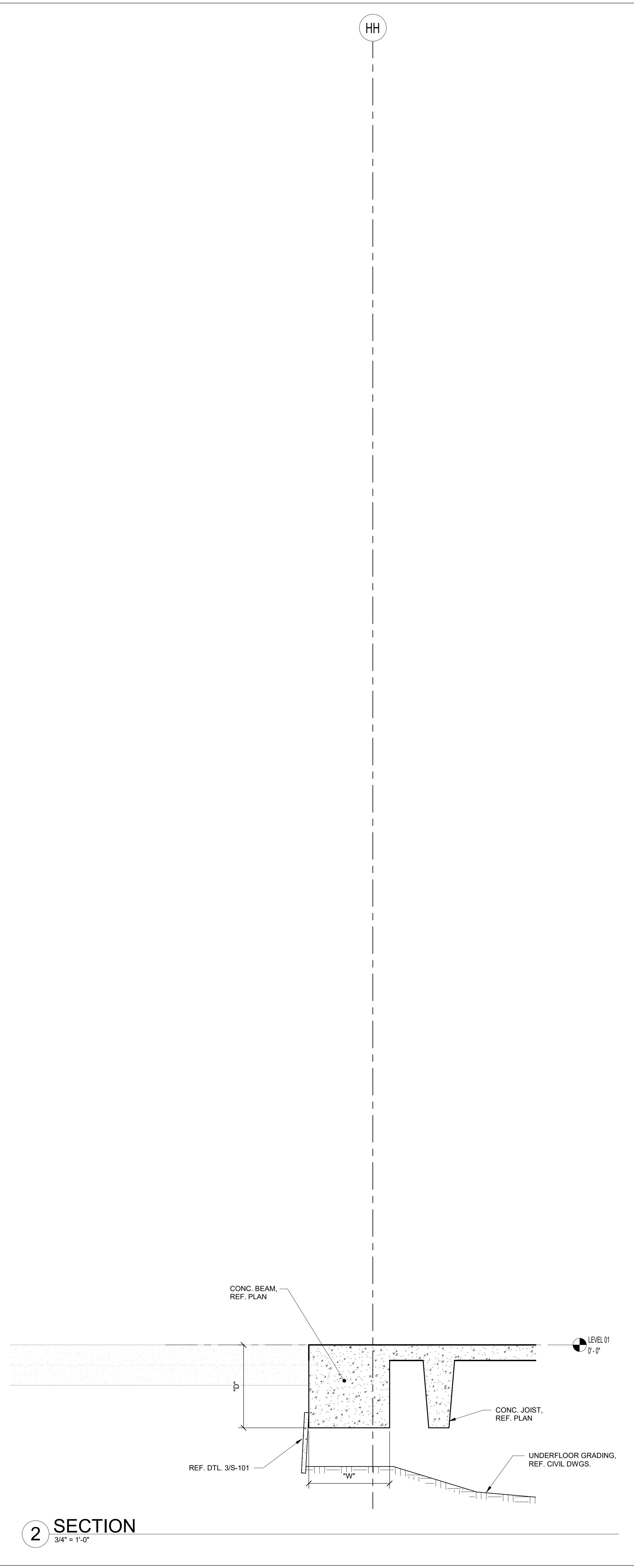
BUILDING NUMBER AB

SECTIONS S-307

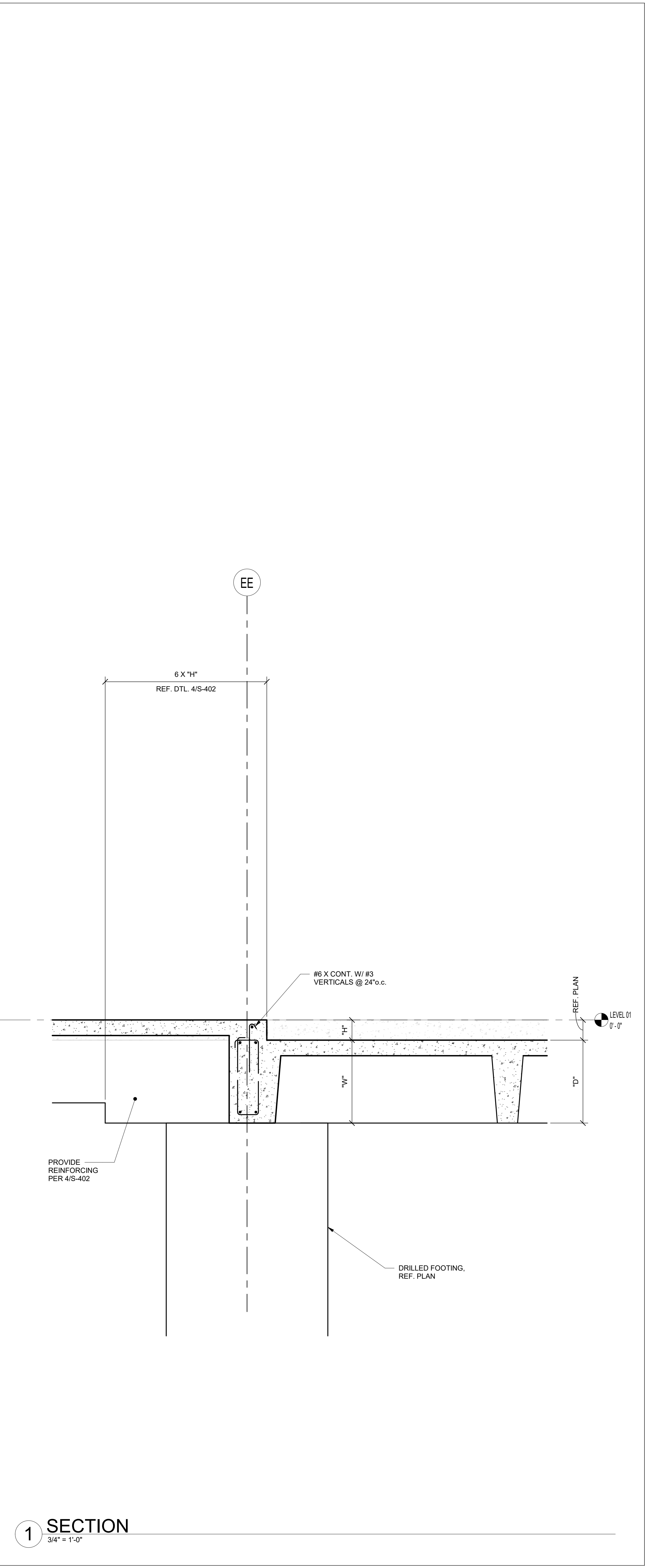
# ISSUE FOR CONSTRUCTION



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



2 SECTION  
3/4" = 1'-0"



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

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



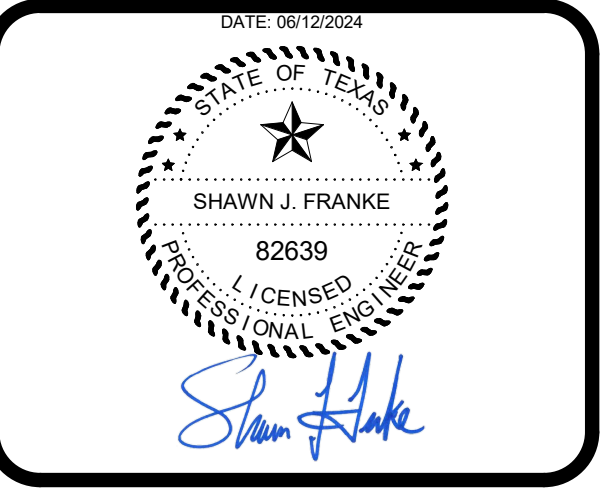
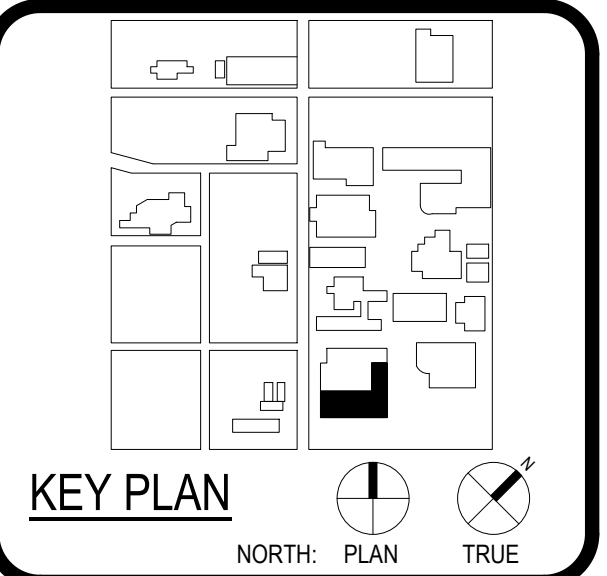
ARCHITECT	PBK Architects, Inc.
SAN ANTONIO	
601 N.W. Loop 410, Suite 400	
San Antonio, TX 78216	
210-820-0123 P	
210-829-5578 F	
TX Firm BR 1606	
ASSOCIATE ARCHITECT	BA & ARCHITECTS
1311 S. W. Loop 410	
San Antonio, TX 78216	
DESIGNER	BA & ARCHITECTS
LANDSCAPE	BA & ARCHITECTS
ROOF AND DRIP	BA & ARCHITECTS
STRUCTURAL	LUNDY & FRANKE ENGINEERING
1801 Main, Lulihar King Dr.,	
San Antonio, TX 78203	
MEP	BA & ARCHITECTS
PROVIDOR	BA & ARCHITECTS
MECHANICAL	BA & ARCHITECTS
PLUMBING	BA & ARCHITECTS
TELEPHONE	BA & ARCHITECTS
TELEFAX	BA & ARCHITECTS
TELEPHONE	BA & ARCHITECTS



**WFAC Black Box Addition PKG 1**

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

ISSUE FOR CONSTRUCTION



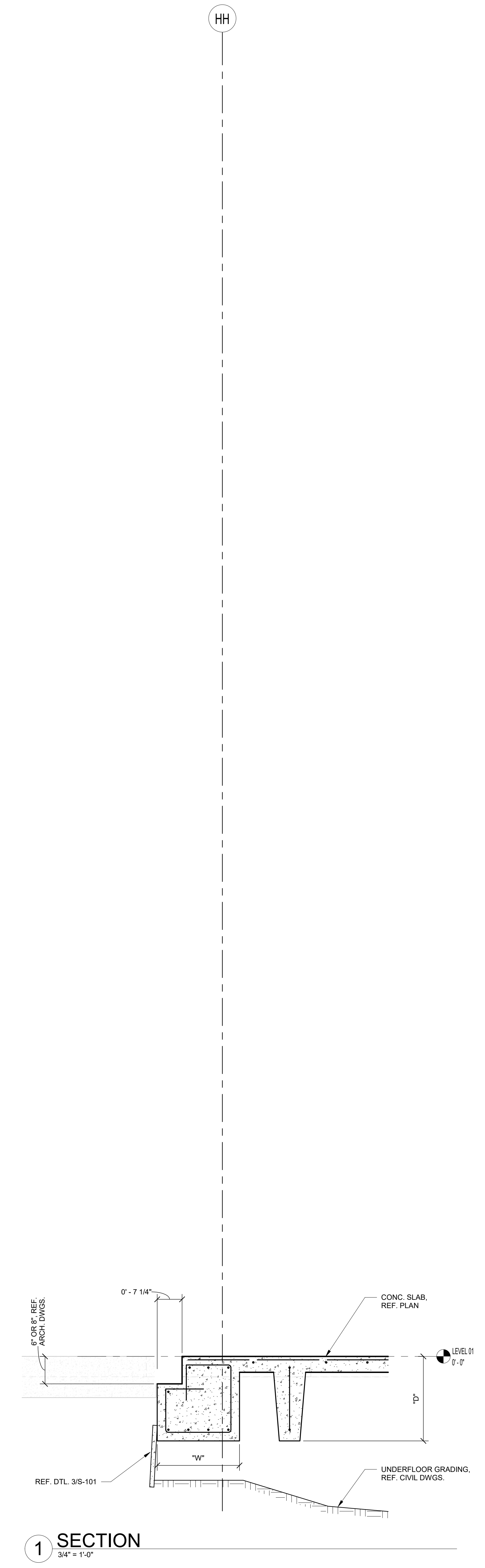
CLIENT		
Alamo Colleges		
DATE	PROJECT NUMBER	
2024/05/23	230462	
DRAWING HISTORY		
No.	Description	Date
ISSUE FOR CONSTRUCTION		
BUILDING NUMBER	AB	

**SECTIONS**

**S-308**

# ISSUE FOR CONSTRUCTION

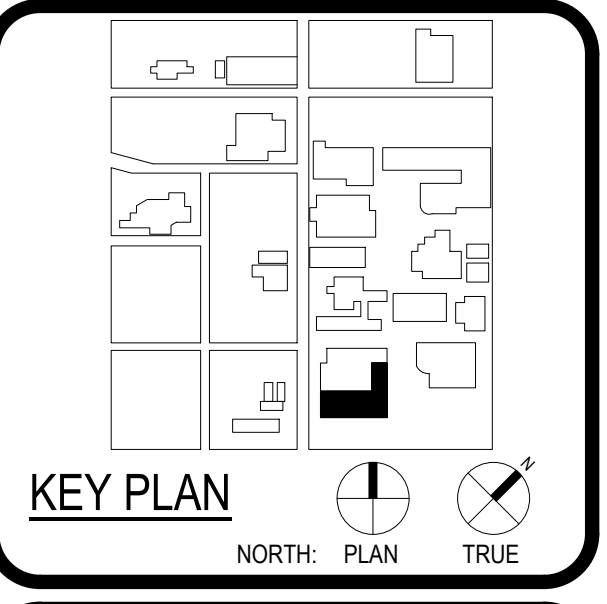
LA PROJECT NO.: 09316-00  
LA FILE NO.: WFAC-3blackbox Addition; Structural R23



ARCHITECT	PBK Architects, Inc. 601 N.W. Loop 410, Suite 400 San Antonio, TX 78216 210-829-0123 P 210-829-0578 F TX Firm BR 1606
ASSOCIATE ARCHITECT	MAX ARCHITECTS 1333 W. 14th St. San Antonio, TX 78205
OWNER	ALAMO COLLEGES
DESIGNER	SHAWN J. FRANKE
LANDSCAPE	LANDSCAPE ARCHITECTS
ROOF AND DRIP	LANDSCAPE ARCHITECTS
STRUCTURAL	LUNDY & FRANKE ENGINEERING
MECHANICAL	MECHANICAL ENGINEERS
ELECTRICAL	ELECTRICAL ENGINEERS
PLUMBING	PLUMBING ENGINEERS
MEASUREMENT	MEASUREMENT ENGINEERS



WFAC Black Box Addition PKG 1



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

**SECTIONS & DETAILS**

**S-309**

**CONCRETE WALL NOTES:**

**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 OR LARGER. IF WALL VERTICAL BARS ARE SMALLER THAN #6, USE #4 AT WALL VERTICAL BARS. PROVIDE #4 U-BARS (60 DIAMETER LAPS) ENCLOSEING 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 DIAMETER 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	VERTICAL BARS		HORIZONTAL BARS		REMARKS
		I.S. FACE	O.S. FACE	I.S. FACE	O.S. FACE	
CW-1	12"	#5 @ 10"o.c.	#5 @ 10"o.c.	#4 @ 12"o.c.	#4 @ 12"o.c.	4000PSI REF. CW-NOTES

1st FLOOR CONCRETE BEAM SCHEDULE														
MARK	SIZE			MAIN REINFORCING						STIRRUPS			REMARKS	
	W	D	SECT.	TOP BARS		BOTTOM BARS		TOP BARS AT SUPPORT		SIZE	TYPE	SPACING AT EACH END OF BEAM		
				REINF.	TYP.	REINF.	TYP.	REINF.	TYP.					SUPP.
B1	30	24 <sup>5</sup> / <sub>8</sub>		4-#8	T1	3-#8	B1	-	-	-	#4	1 @ 2.6 @ 10 BAL @ 24"o.c.		
B2	30	24 <sup>5</sup> / <sub>8</sub>		4-#8	T1	3-#8	B1	-	-	-	#4	1 @ 2.6 @ 10 BAL @ 24"o.c.		
B3	30	24 <sup>5</sup> / <sub>8</sub>		4-#6	T2	3-#8	B6	-	-	-	#4	1 @ 2.10 @ 10 BAL @ 24"o.c.		
B4	30	24 <sup>5</sup> / <sub>8</sub>		4-#6	T3	3-#8	B3	-	-	-	#4	1 @ 2.10 @ 10 BAL @ 24"o.c.		
B5	30	24 <sup>5</sup> / <sub>8</sub>		4-#6	T3	3-#8	B3	-	-	-	#4	1 @ 2.6 @ 10 BAL @ 24"o.c.		
B6	30	24 <sup>5</sup> / <sub>8</sub>		4-#6	T2	3-#8	B6	-	-	-	#4	1 @ 2.6 @ 10 BAL @ 24"o.c.		
B7	48	24 <sup>5</sup> / <sub>8</sub>		4-#9	T2	3-#9	B6	-	-	-	#4	1 @ 2.15 @ 10 BAL @ 24"o.c.		
B8	48	24 <sup>5</sup> / <sub>8</sub>		4-#9	T3	3-#9	B4	-	-	-	#4	1 @ 2.15 @ 10 BAL @ 24"o.c.		
B9	48	24 <sup>5</sup> / <sub>8</sub>		4-#9	T3	3-#9	B3	-	-	-	#4	1 @ 2.15 @ 10 BAL @ 24"o.c.		
B10	48	24 <sup>5</sup> / <sub>8</sub>		4-#9	T2	3-#9	B6	-	-	-	#4	1 @ 2.10 @ 10 BAL @ 24"o.c.	EXTEND HOOK END INTO CANT.	
B11	48	24 <sup>5</sup> / <sub>8</sub>		4-#9	T6	3-#9	B3	-	-	-	#4	1 @ 2.10 @ 10 BAL @ 24"o.c.	CANTILEVER	
B12	48	24 <sup>5</sup> / <sub>8</sub>		4-#9	T2	3-#9	B6	-	-	-	#4	1 @ 2.10 @ 10 BAL @ 24"o.c.		
B13	48	24 <sup>5</sup> / <sub>8</sub>		4-#9	T2	3-#9	B6	-	-	-	#4	1 @ 2.12 @ 10 BAL @ 24"o.c.		
B14	48	24 <sup>5</sup> / <sub>8</sub>		4-#9	T3	3-#9	B3	-	-	-	#4	1 @ 2.12 @ 10 BAL @ 24"o.c.		
B15	48	24 <sup>5</sup> / <sub>8</sub>		4-#9	T3	3-#9	B8	-	-	-	#4	1 @ 2.6 @ 10 BAL @ 24"o.c.		
B16	48	24 <sup>5</sup> / <sub>8</sub>		4-#9	T2	3-#9	B1	-	-	-	#4	1 @ 2.6 @ 10 BAL @ 24"o.c.		
B17	48	24 <sup>5</sup> / <sub>8</sub>		4-#9	T3	3-#9	B3	-	-	-	#4	1 @ 2.6 @ 10 BAL @ 24"o.c.		
B18	48	24 <sup>5</sup> / <sub>8</sub>		4-#9	T3	3-#9	B4	-	-	-	#4	1 @ 2.6 @ 10 BAL @ 24"o.c.		
B19	48	24 <sup>5</sup> / <sub>8</sub>		4-#9	T1	3-#9	B1	-	-	-	#4	1 @ 2.6 @ 10 BAL @ 24"o.c.	CANTILEVER	
B20	48	24 <sup>5</sup> / <sub>8</sub>		4-#9	T3	3-#9	B3	-	-	-	#4	1 @ 2.6 @ 10 BAL @ 24"o.c.		
B21	48	24 <sup>5</sup> / <sub>8</sub>		4-#9	T2	3-#9	B6	-	-	-	#4	1 @ 2.6 @ 10 BAL @ 24"o.c.		
B22	30	24 <sup>5</sup> / <sub>8</sub>		4-#7	T2	3-#8	B6	-	-	-	#4	1 @ 2.6 @ 10 BAL @ 24"o.c.		
B23	30	24 <sup>5</sup> / <sub>8</sub>		4-#7	T3	3-#8	B3	-	-	-	#4	1 @ 2.6 @ 10 BAL @ 24"o.c.		
B24	30	24 <sup>5</sup> / <sub>8</sub>		4-#7	T3	3-#8	B4	-	-	-	#4	1 @ 2.6 @ 10 BAL @ 24"o.c.		
B25	24	24 <sup>5</sup> / <sub>8</sub>		4-#6	T2	3-#8	B6	-	-	-	#4	1 @ 2.6 @ 10 BAL @ 24"o.c.		
B26	24	24 <sup>5</sup> / <sub>8</sub>		4-#6	T3	3-#8	B4	-	-	-	#4	1 @ 2.6 @ 10 BAL @ 24"o.c.		
B27	24	24 <sup>5</sup> / <sub>8</sub>		4-#6	T3	3-#8	B3	-	-	-	#4	1 @ 2.6 @ 10 BAL @ 24"o.c.		
B28	12	24 <sup>5</sup> / <sub>8</sub>		2-#6	T2	2-#6	B6	-	-	-	#4	1 @ 2.6 @ 10 BAL @ 24"o.c.		
B29	12	24 <sup>5</sup> / <sub>8</sub>		2-#6	T3	2-#6	B3	-	-	-	#4	1 @ 2.6 @ 10 BAL @ 24"o.c.		
B30	30	24 <sup>5</sup> / <sub>8</sub>		4-#6	T1	3-#8	B1	-	-	-	#4	1 @ 2.6 @ 10 BAL @ 24"o.c.		
B31	30	24 <sup>5</sup> / <sub>8</sub>		4-#6	T2	3-#8	B6	-	-	-	#4	1 @ 2.6 @ 10 BAL @ 24"o.c.	EXTEND HOOK END INTO CANT.	
B32	30	24 <sup>5</sup> / <sub>8</sub>		4-#6	T3	3-#8	B3	-	-	-	#4	1 @ 2.6 @ 10 BAL @ 24"o.c.		
B33	30	24 <sup>5</sup> / <sub>8</sub>		4-#6	T6	4-#6	B5	-	-	-	#4	1 @ 2.6 @ 10 BAL @ 24"o.c.	CANTILEVER	
B34	24	24 <sup>5</sup> / <sub>8</sub>		4-#6	T1	2-#8	B1	-	-	-	#4	1 @ 2.6 @ 10 BAL @ 24"o.c.		
B35	48	24 <sup>5</sup> / <sub>8</sub>		4-#6	T1	3-#8	B1	-	-	-	#4	1 @ 2.6 @ 10 BAL @ 24"o.c.		
B36	24	24 <sup>5</sup> / <sub>8</sub>		4-#6	T1	2-#8	B1	-	-	-	#4	1 @ 2.6 @ 10 BAL @ 24"o.c.		
B37	24	24 <sup>5</sup> / <sub>8</sub>		4-#6	T1	2-#8	B8	-	-	-	#4	1 @ 2.6 @ 10 BAL @ 24"o.c.		
B38	48	24 <sup>5</sup> / <sub>8</sub>		4-#7	T2	3-#8	B6	-	-	-	#4	1 @ 2.6 @ 10 BAL @ 24"o.c.		
B39	48	24 <sup>5</sup> / <sub>8</sub>		4-#7	T3	3-#8	B3	-	-	-	#4	1 @ 2.6 @ 10 BAL @ 24"o.c.		

**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.

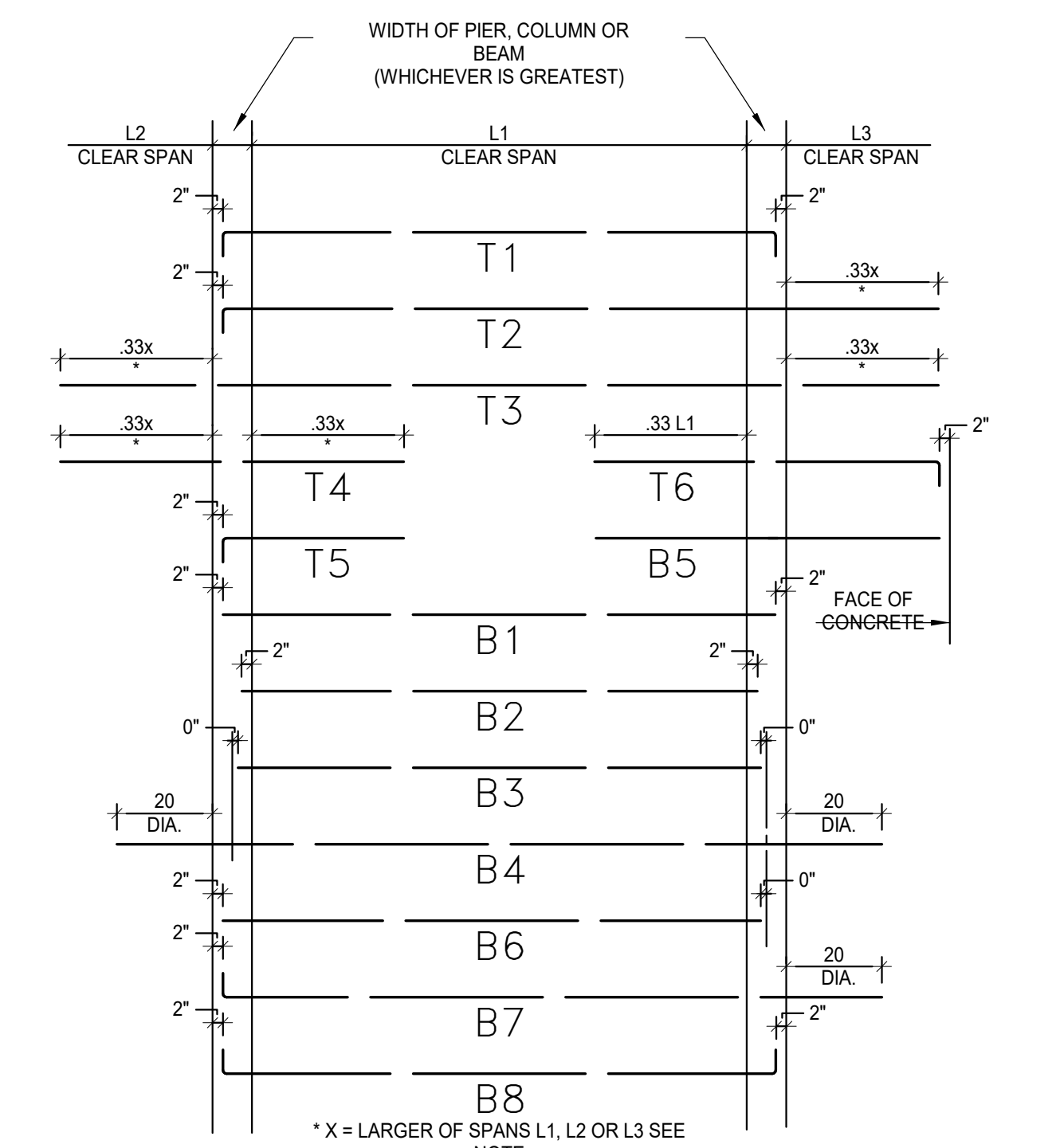
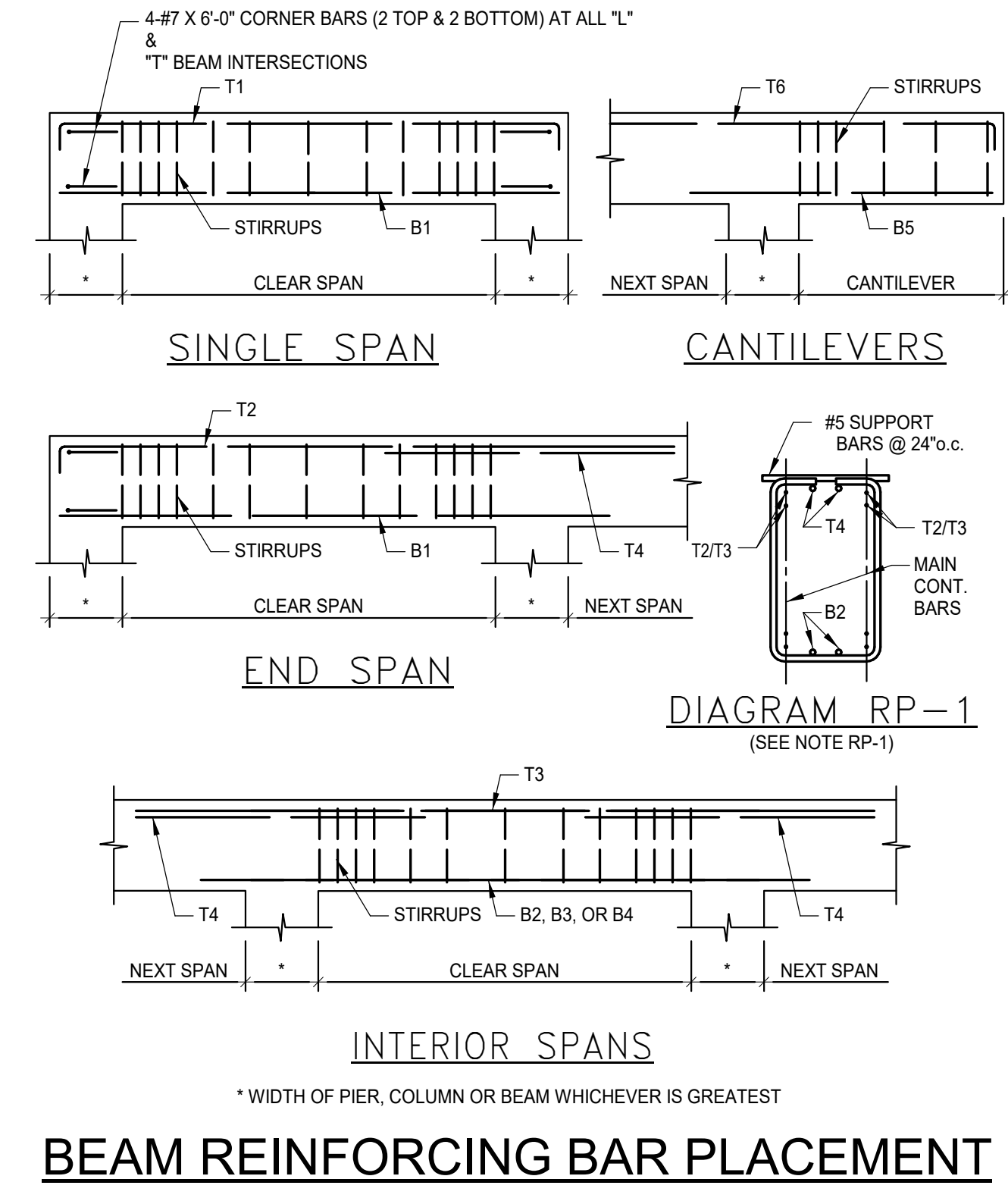
**RP-3** UNLESS NOTED OTHERWISE, REBARS SHALL HAVE CONCRETE COVER AS FOLLOWS: STIRRUPS AND TIES = 1-1/2" AND SLABS = 3/4".

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

**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.

**RP-7** SLEEVES THROUGH BEAMS SHALL HAVE INDIVIDUAL APPROVAL OF THE ENGINEER AND MAY REQUIRE AN INCREASE IN BEAM SIZE.



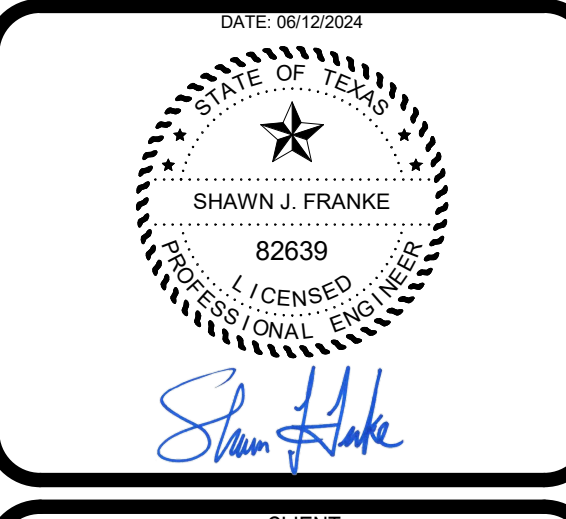
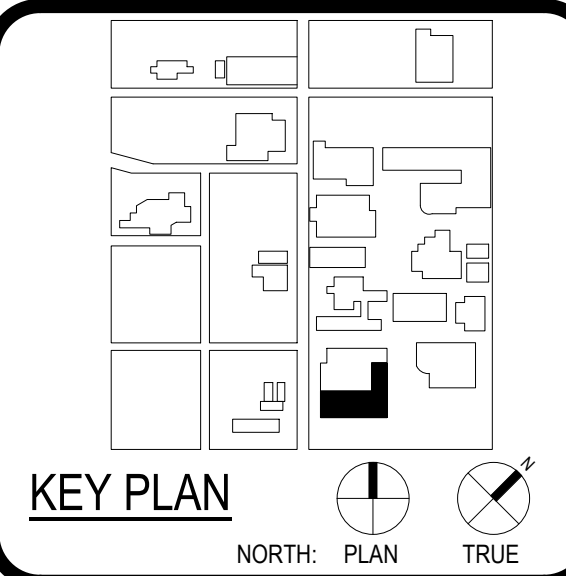
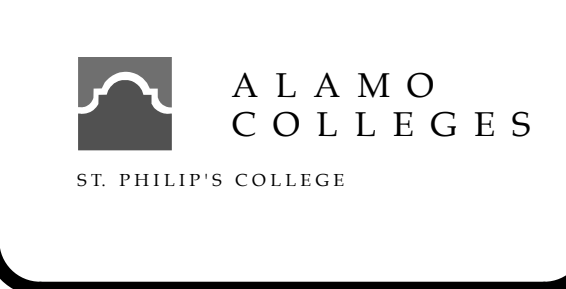
**ARCHITECT** PBK Architects, Inc.  
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 TX FIRM REG. #3388

WFAC Black Box Addition PKG 1

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

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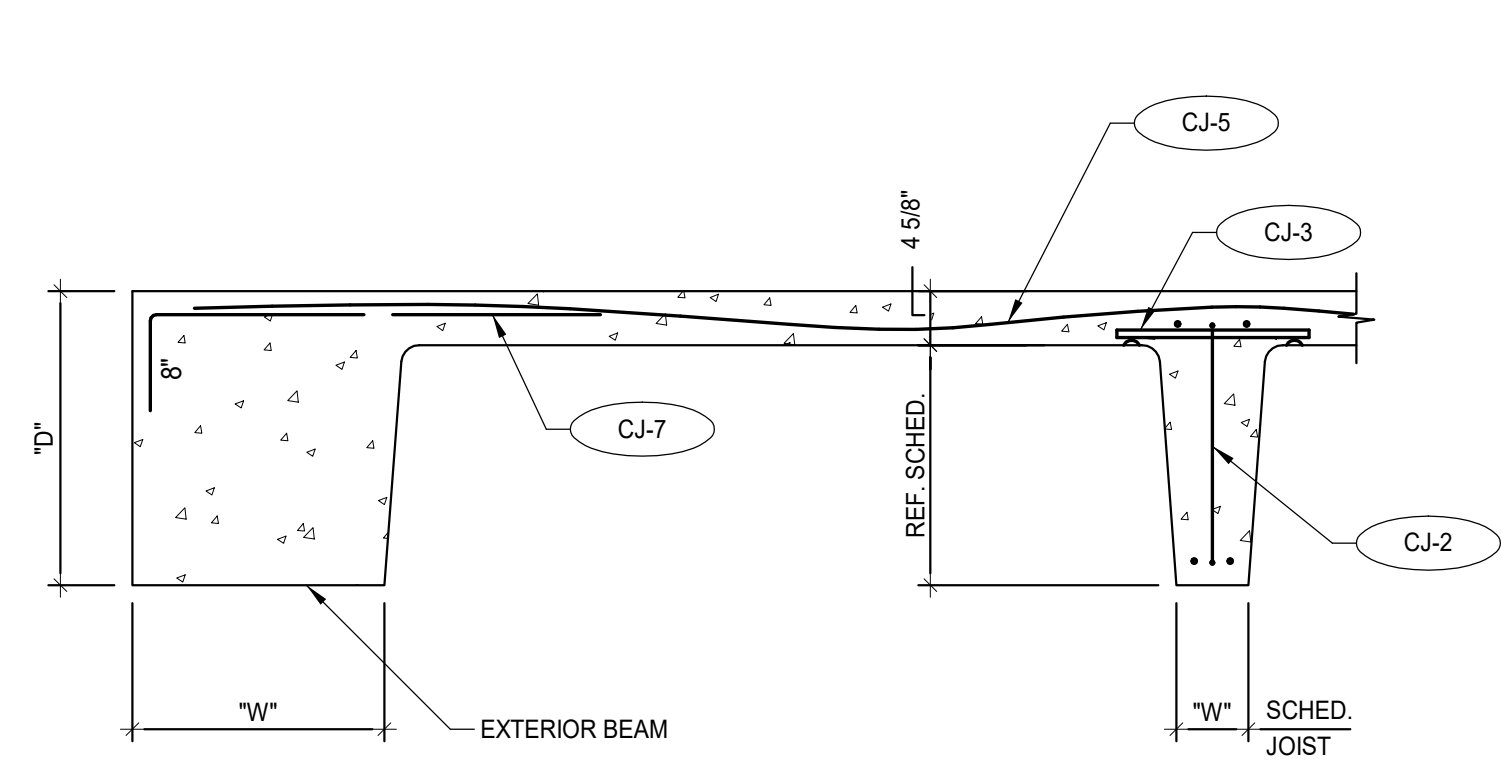
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Alamo Colleges	PROJECT NUMBER
DATE	230462
2024/05/23	
DRAWING HISTORY	
No.	Description

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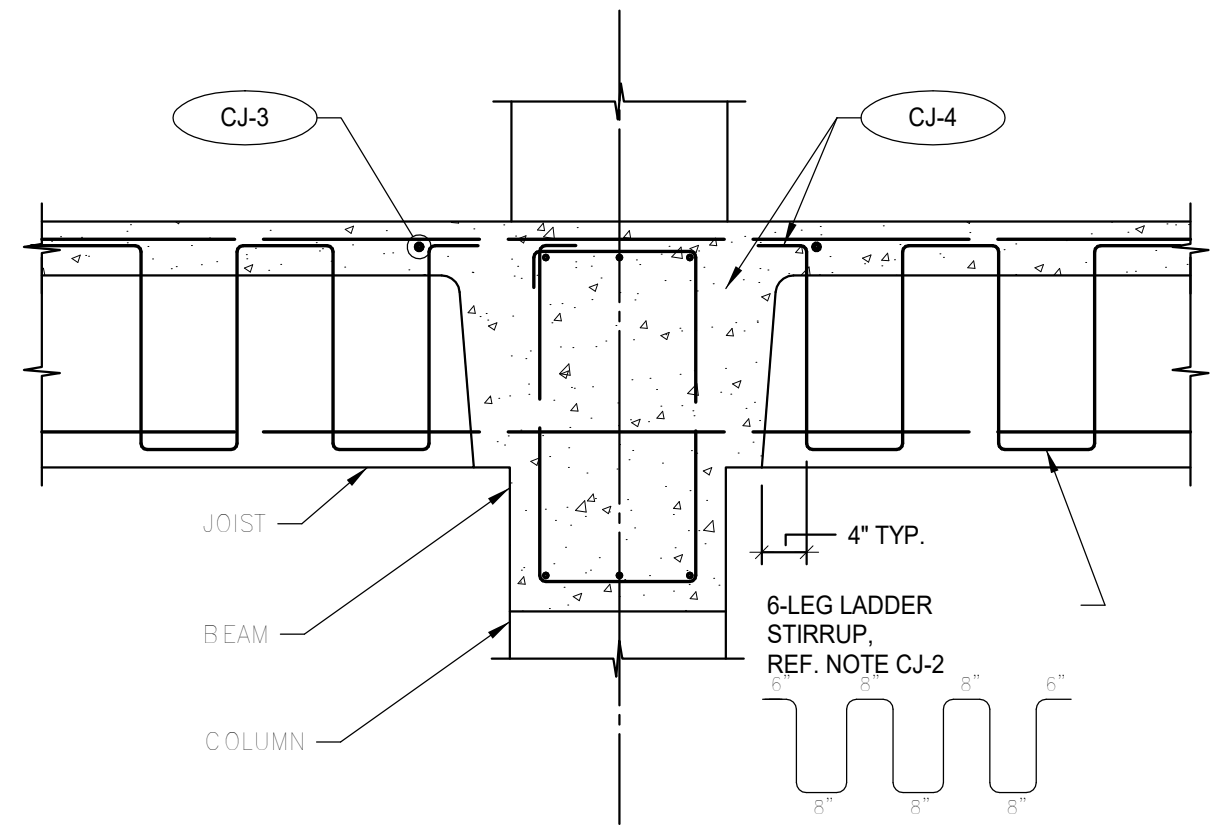
BUILDING NUMBER **AB**

**CONC. BEAM SCHED & NOTES**

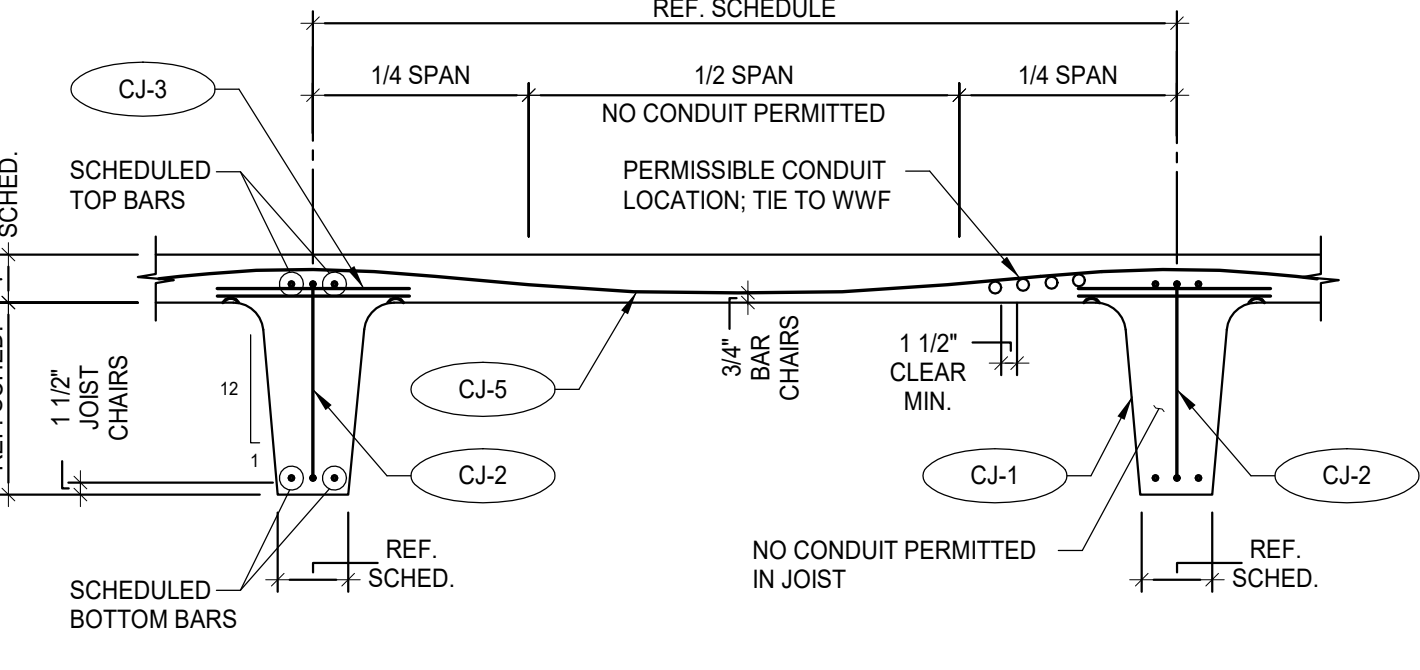
1st FLOOR CONCRETE JOIST SCHEDULE															
MARK	SIZE			MAIN REINFORCING						STIRRUPS			REMARKS		
	W	D	SECT.	SPCG.	TOP BARS		BOTTOM BARS		TOP BARS AT SUPPORT		SIZE	NO. LEGS		SPACING AT EACH END OF JOIST	
					REINF.	TYP.	REINF.	TYP.	REINF.	TYP.	SUPP.				
J1	6	20		6'-0"	2-#6	T2	1-#8	B6	-	-	-	#4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



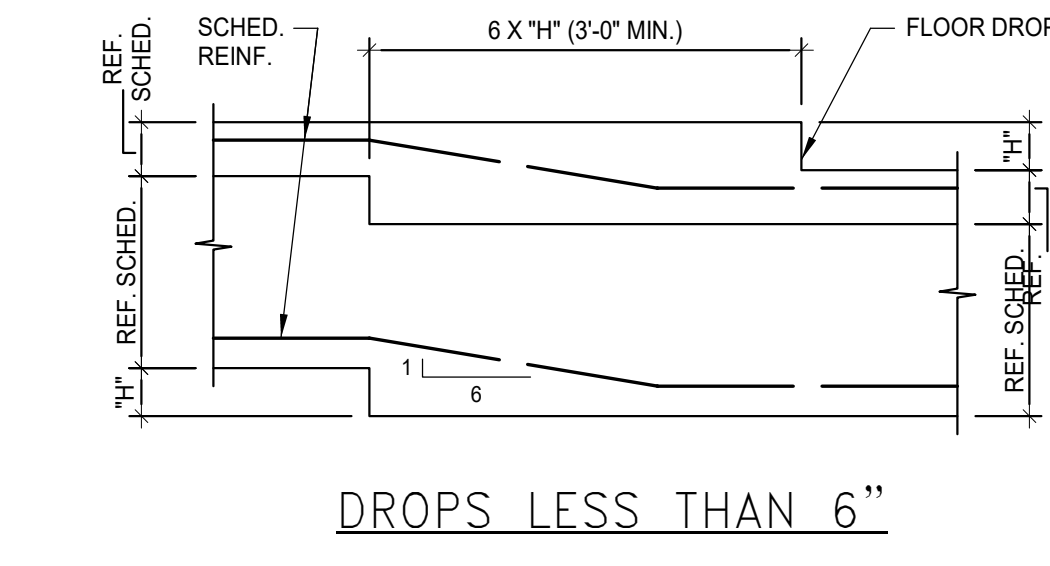
5 DETAIL TYP. SECT. @ REIN. BM. SCALE: 3/4" = 1'-0"



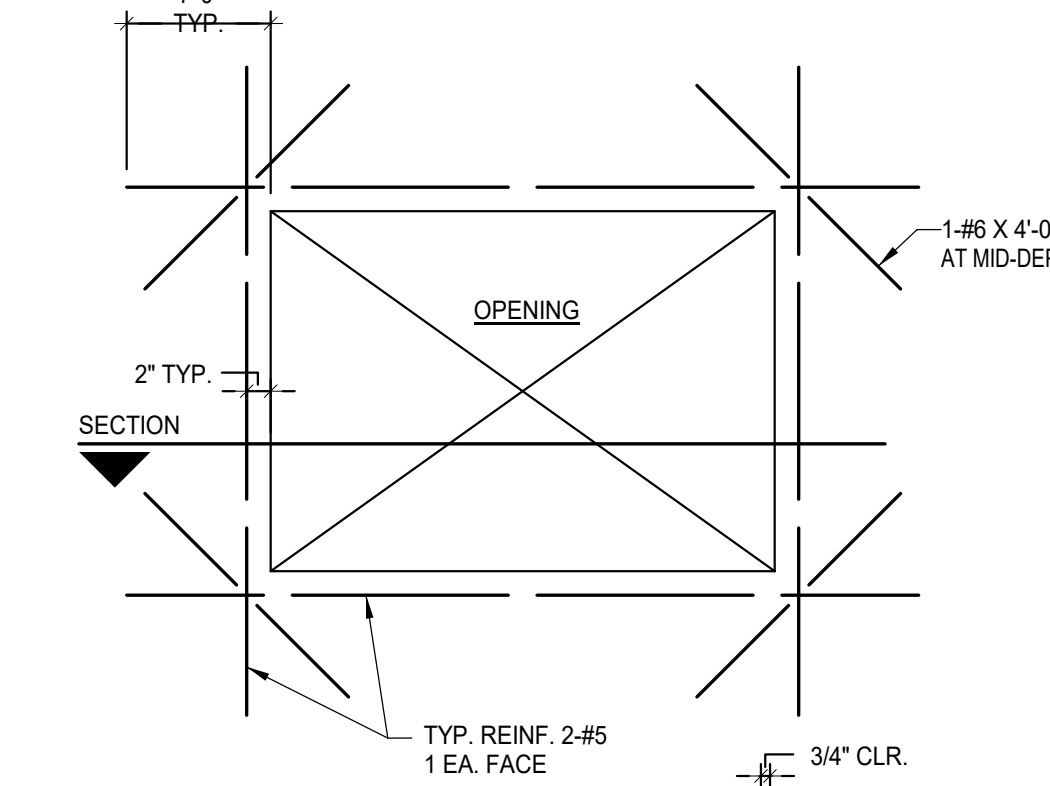
6 DETAIL TYP. SECT. @ INT. BM. SCALE: 3/4" = 1'-0"



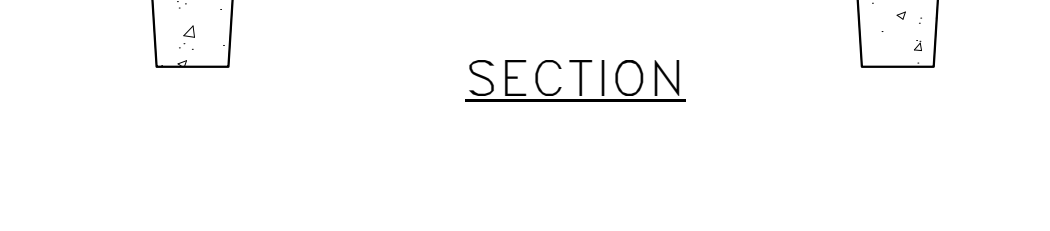
7 DETAIL TYP. ALLOWABLE CONDUIT PLACEMENT SCALE: 3/4" = 1'-0"



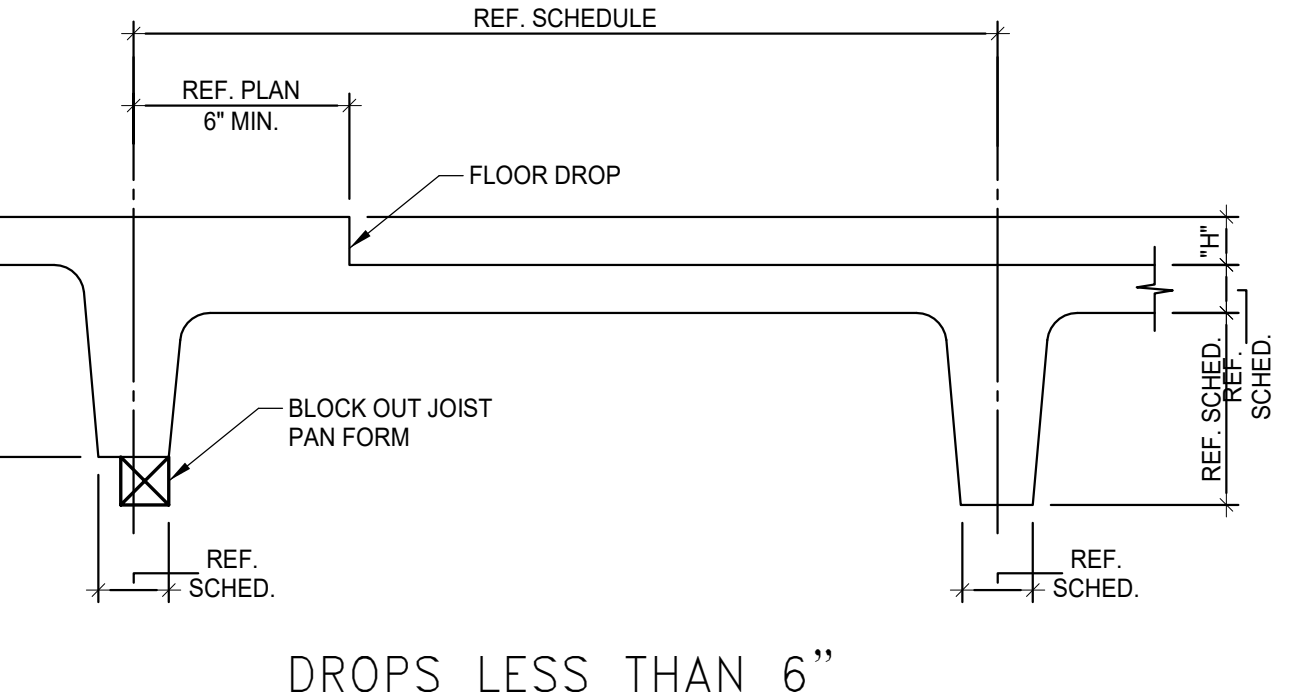
1 DETAIL TYP. REINF. @ SLAB DROP SCALE: 3/4" = 1'-0"



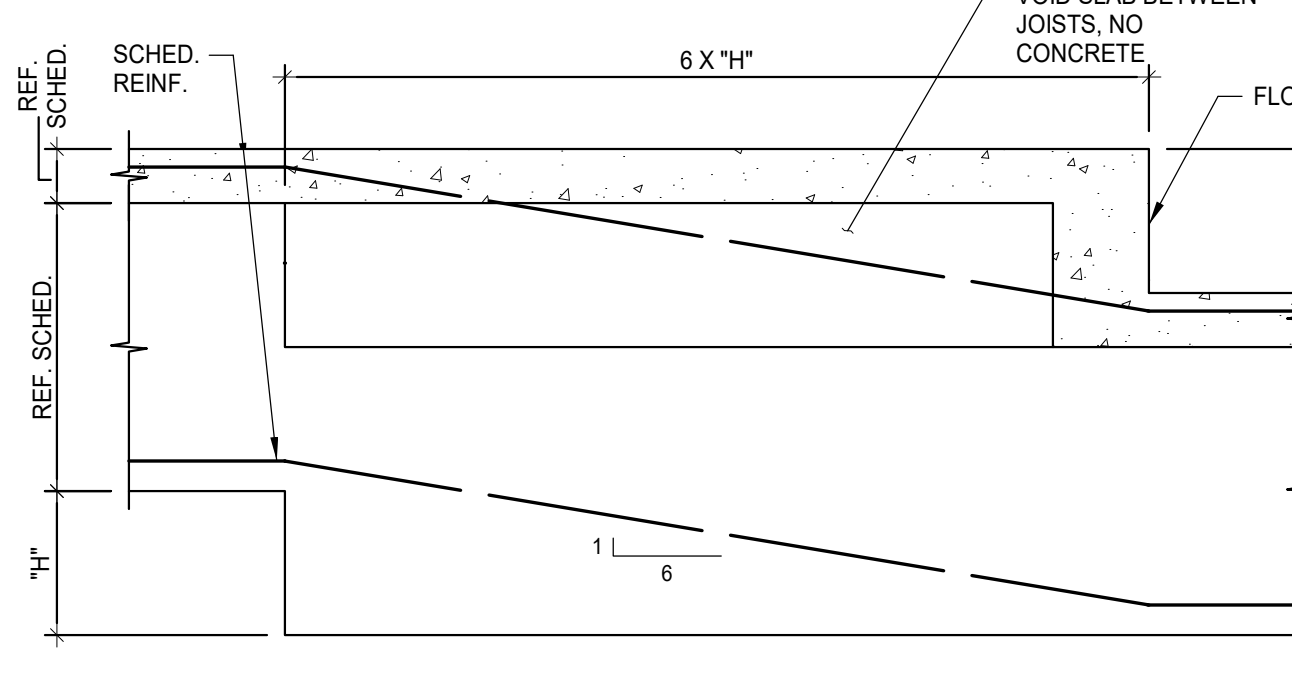
2 DETAIL TYP. SLAB REINF. @ ACCESS HATCH SCALE: 3/4" = 1'-0"



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



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



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

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

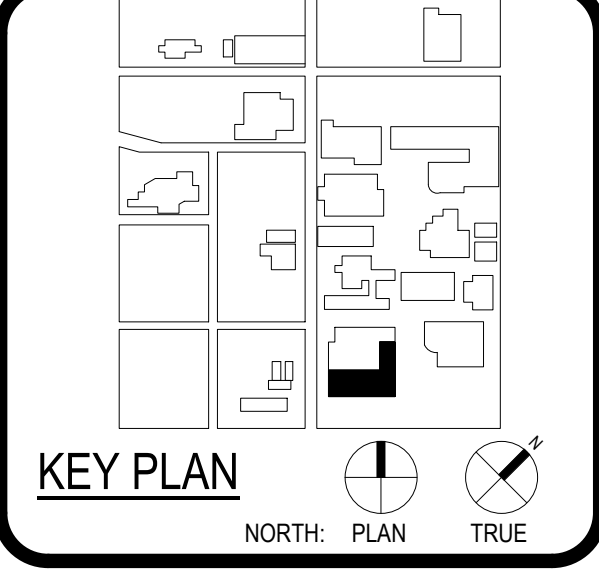


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 TX FIRM REG. #3388

WFAC Black Box Addition PKG 1

ALAMO COLLEGES  
 ST. PHILIP'S COLLEGE



DATE: 06/12/2024  
 SHAWN J. FRANKIE  
 82639  
 LICENSED PROFESSIONAL ENGINEER

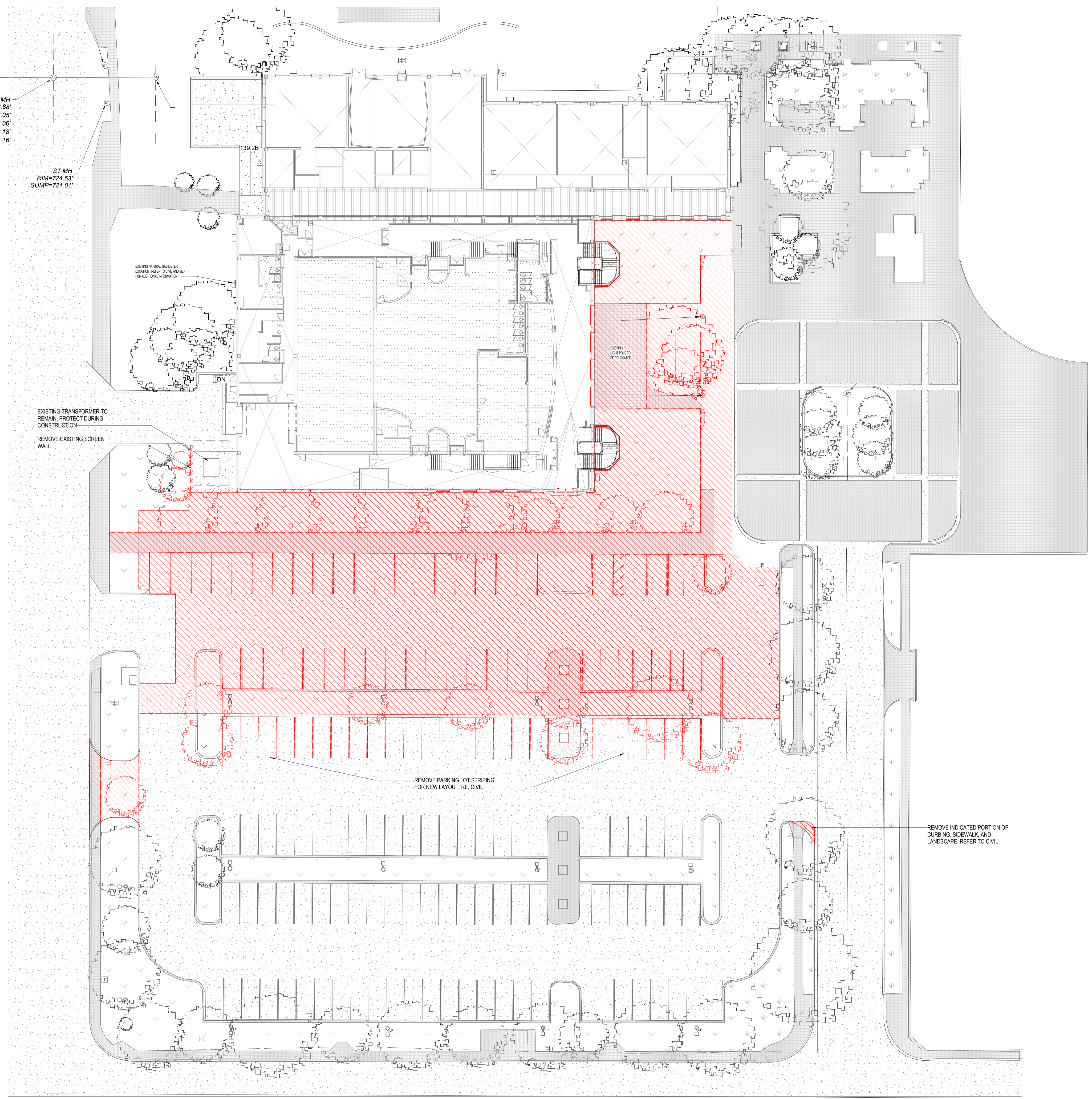
CLIENT: Alamo Colleges  
 DATE: 2024/05/23  
 PROJECT NUMBER: 230462

No.	Description	Date

ISSUE FOR CONSTRUCTION  
 BUILDING NUMBER: AB

CONC. JOIST SCHED,  
 NOTES & DETAILS

# ISSUE FOR CONSTRUCTION



## GENERAL SITE DEMOLITION NOTES

- 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.
- CONTRACTOR SHALL VERIFY EXISTING SITE AND BUILDING CONDITIONS AND DIMENSIONS IN THE FIELD PRIOR TO DEMOLITION ACTIVITIES AND WORK.
- CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES IN WRITING.
- 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.
- 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.
- CONTRACTOR SHALL NOT SCALE DRAWINGS.
- CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY SHORING, TEMPORARY BRACING, AND OR TEMPORARY SUPPORTS AS REQUIRED TO MAINTAIN STRUCTURAL INTEGRITY OF EXISTING STRUCTURE TO REMAIN AND OR EXISTING BUILDING ELEMENTS TO REMAIN.
- CONTRACTOR IS TO VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES PRIOR TO DEMOLITION ACTIVITIES AND WORK.
- CONTRACTOR SHALL REMOVE TRASH AND DEBRIS REGULARLY AS NECESSARY TO ELIMINATED INTERFERENCE WITH ROADS, STREET, WALKS, AND ALL OTHER ADJACENT FACILITIES.
- CONTRACTOR SHALL REMOVE TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.
- 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).
- 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.
- 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.
- CONTRACTOR SHALL PROVIDE TRAFFIC HANDLING MEASURES TO PROTECT THE GENERAL PUBLIC AT ALL TIMES, AS NECESSARY AND AS REQUIRED BY AUTHORITIES HAVING JURISDICTION.
- 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.
- WHEN UTILITY SERVICES ARE REQUIRED TO BE REMOVED, RELOCATED, OR ABANDONED, PROVIDE BYPASS CONNECTIONS TO MAINTAIN CONTINUITY OF SERVICE BEFORE PROCEEDING WITH DEMOLITION.
- 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 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 SPLIT SO AS TO KILL ALL ELECTRICAL POWER TO THE AREA TO BE DEMOLISHED WHILE MAINTAINING POWER TO THE REMAINDER OF THE BUILDING.
- CONTRACTOR SHALL RELOCATE UTILITIES AND EQUIPMENT AS REQUIRED TO ACCOMMODATE NEW HVAC, ELECTRICAL, PLUMBING, AND TECHNOLOGY REQUIREMENTS FOR NEW WORK.
- 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.
- CONTRACTOR SHALL REGRADE AND HYDROMULCH AREAS AFFECTED BY DEMOLITION.
- OWNER HAS RIGHT OF FIRST REFUSAL OF ALL ITEMS REMOVED AS PART OF THE SCOPE OF WORK, WHETHER IDENTIFIED AS SALVAGE OR NOT.
- NOTIFY THE BUILDING OWNER OF ANY MATERIALS, FIXTURES, ETC. TO BE REMOVED THAT ARE DESIRED SALVAGEABLE. TURN OVER ANY REQUESTED ITEMS TO THE BUILDING OWNER IN GOOD AND CLEAN CONDITION.
- 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 REQUIRED.

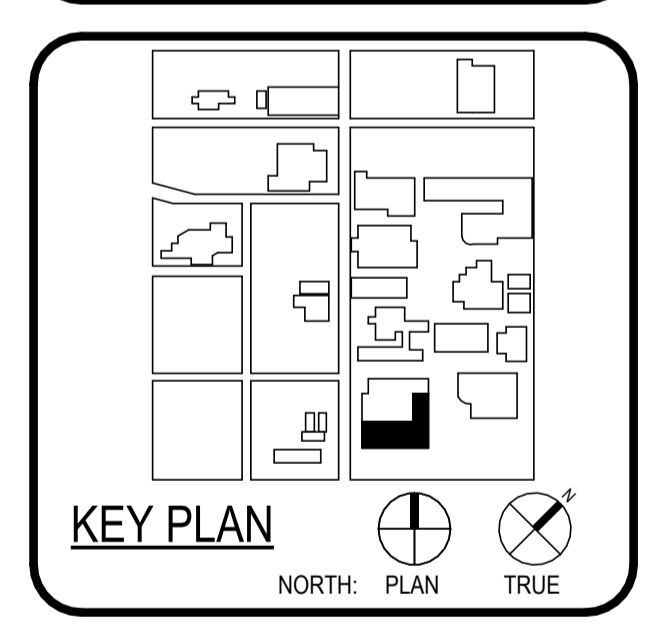


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ARCHITECT	PBK Architects, Inc.
DESIGNER	PKB Architects, Inc.
LANDSCAPE	PKB Architects, Inc.
ENGINEER	PKB Architects, Inc.
MECHANICAL	PKB Architects, Inc.
ELECTRICAL	PKB Architects, Inc.
PLUMBING	PKB Architects, Inc.
STRUCTURAL	PKB Architects, Inc.
ENVIRONMENTAL	PKB Architects, Inc.
MARKING	PKB Architects, Inc.
MEASUREMENT	PKB Architects, Inc.
CONSTRUCTION	PKB Architects, Inc.

**WFAC Black Box Addition PKG 1**

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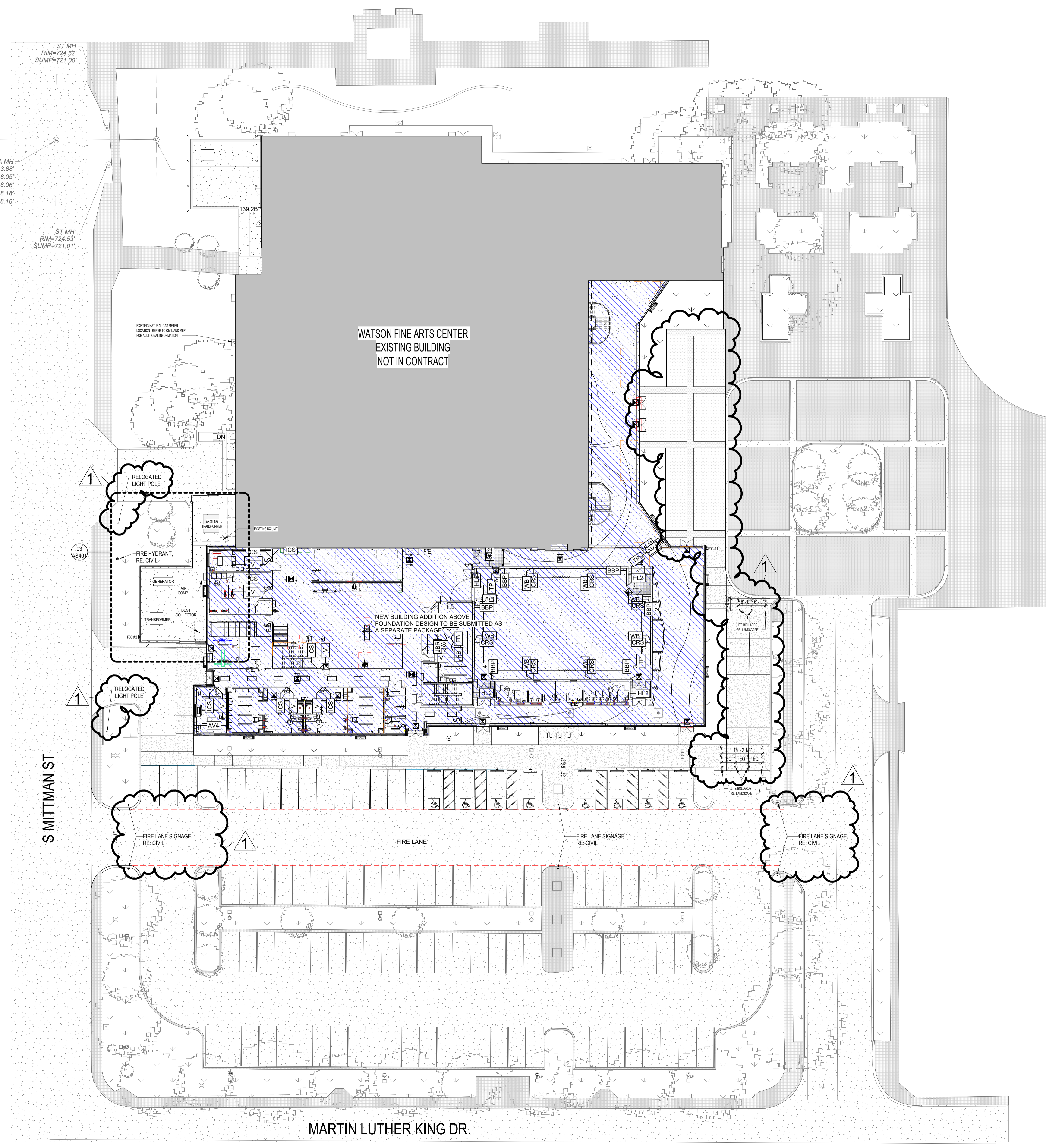


CLIENT Alamo Colleges		
DATE 2024/06/14	PROJECT NUMBER 230462	
DRAWING HISTORY		
No.	Description	Date

ISSUE FOR CONSTRUCTION

BUILDING NUMBER 1

**DEMOLITION ARCHITECTURAL SITE PLAN**



GENERAL ARCH SITE PLAN NOTES

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

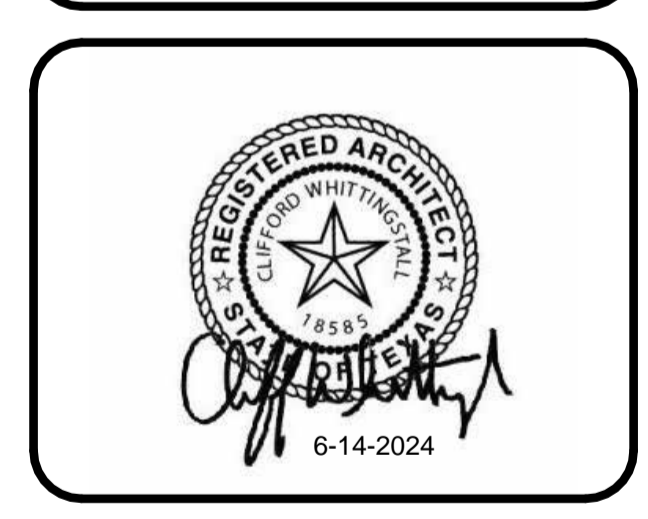
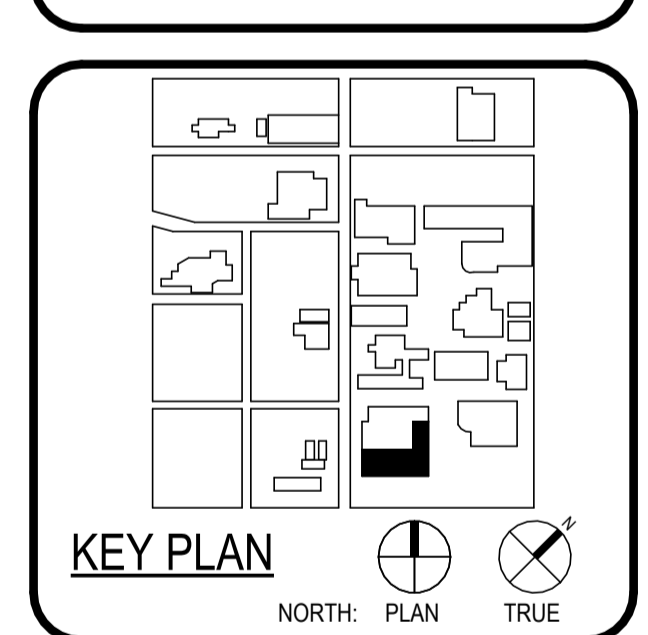


ARCHITECT	PBK Architects, Inc.
SAN ANTONIO 601 N.W. Loop 410, Suite 400 San Antonio, TX 78216 210-829-0123 P 210-829-0578 F TX Firm BR 1808	
ARCHITECT	B&A ARCHITECTS
1700 N. BRASS SAN ANTONIO, TX 78203 210-492-0000	
CONTRACTOR	GENSLER
1100 N. BRASS SAN ANTONIO, TX 78203 210-492-0000	
LANDSCAPE	ROSE AND SCOBIP
1700 N. BRASS SAN ANTONIO, TX 78203 210-492-0000	
STRUCTURAL	LUNY & FRANK ENGINEERING
1700 N. BRASS SAN ANTONIO, TX 78203 210-492-0000	
MECHANICAL	MEI
1700 N. BRASS SAN ANTONIO, TX 78203 210-492-0000	
ELECTRICAL	ENVELOPE
1700 N. BRASS SAN ANTONIO, TX 78203 210-492-0000	
MECHANICAL	MEI
1700 N. BRASS SAN ANTONIO, TX 78203 210-492-0000	

**WFAC Black Box Addition PKG 1**

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

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BRICK QUANTITY TAKEOFF

LISTED AREAS ARE ACTUAL SQ.FT. TAKE-OFF FORM FROM THE PACKAGE 2  
60% CD SET. GC TO ORDER OVERAGE/WASTE AS REQUIRED.

ORANGE BRICK - 12,200 SF  
WHITE BRICK - 2,275 SF

IF SPANDREL REPLACEMENT FOR BRICK VE OPTION IS SELECTED  
ADDED BRICK COUNT

ORANGE BRICK - 490 SF  
WHITE BRICK - 155 SF

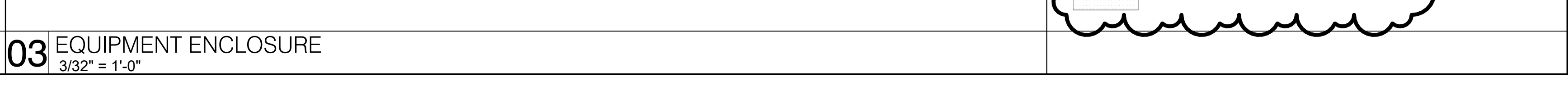
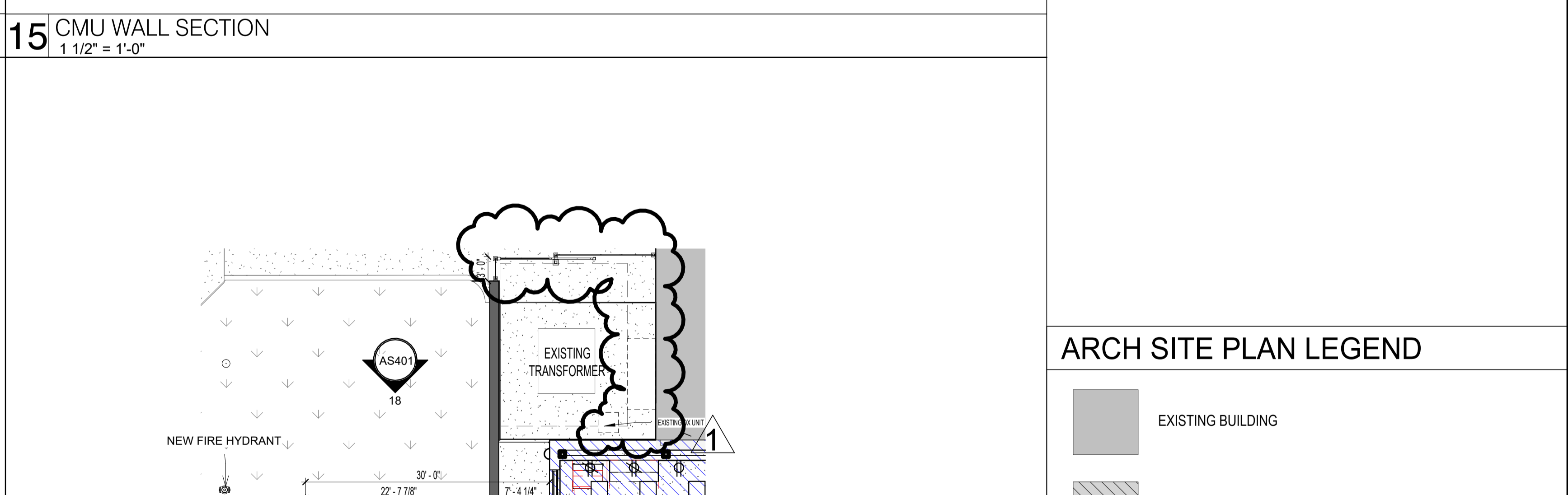
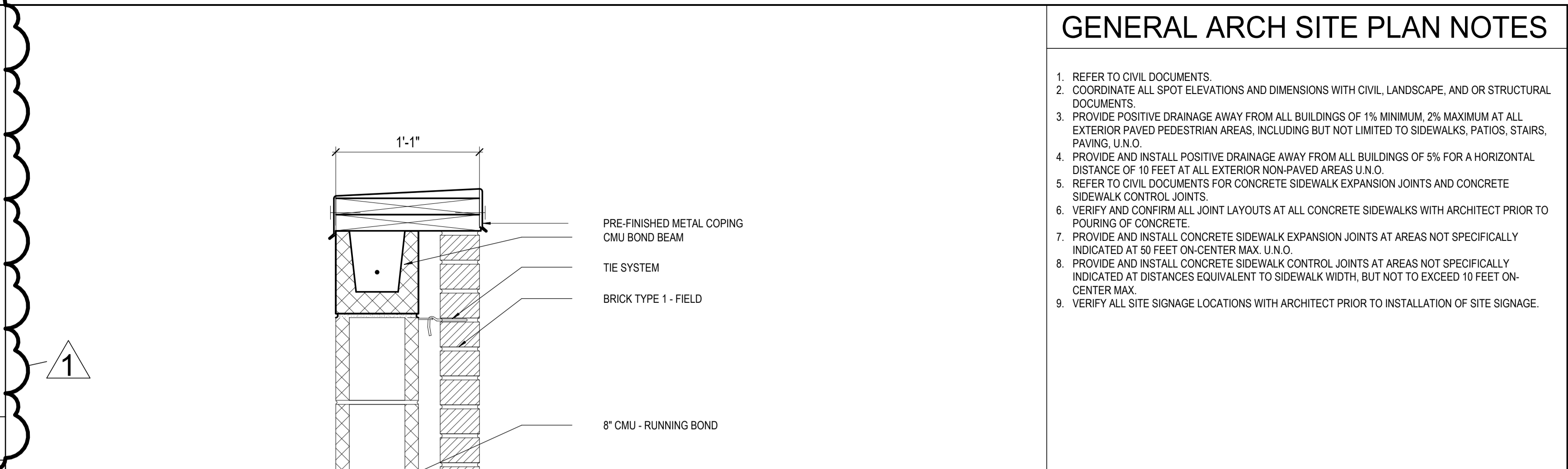
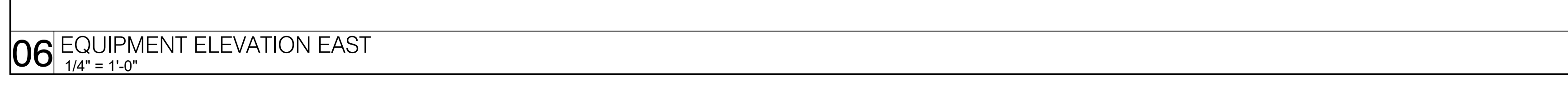
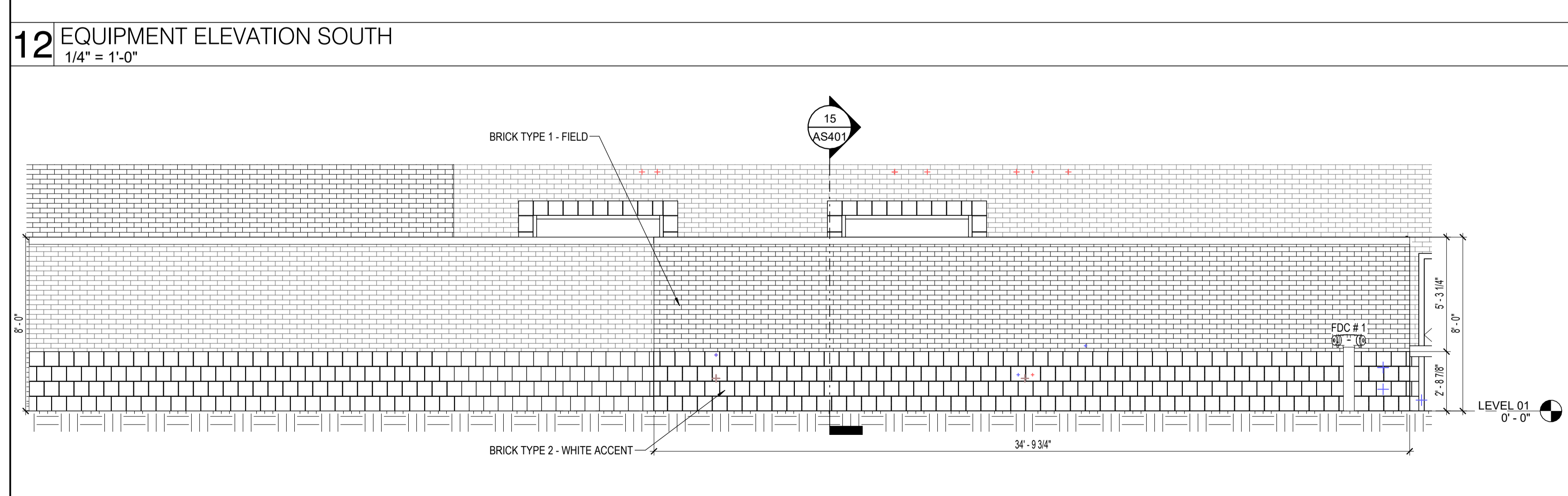
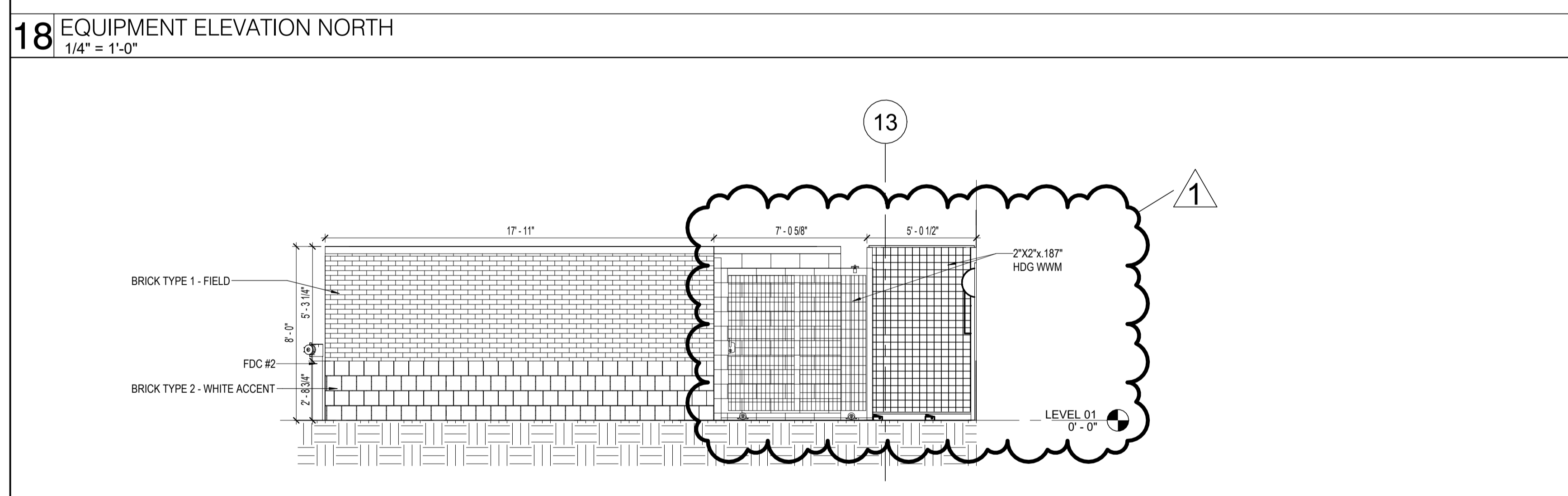
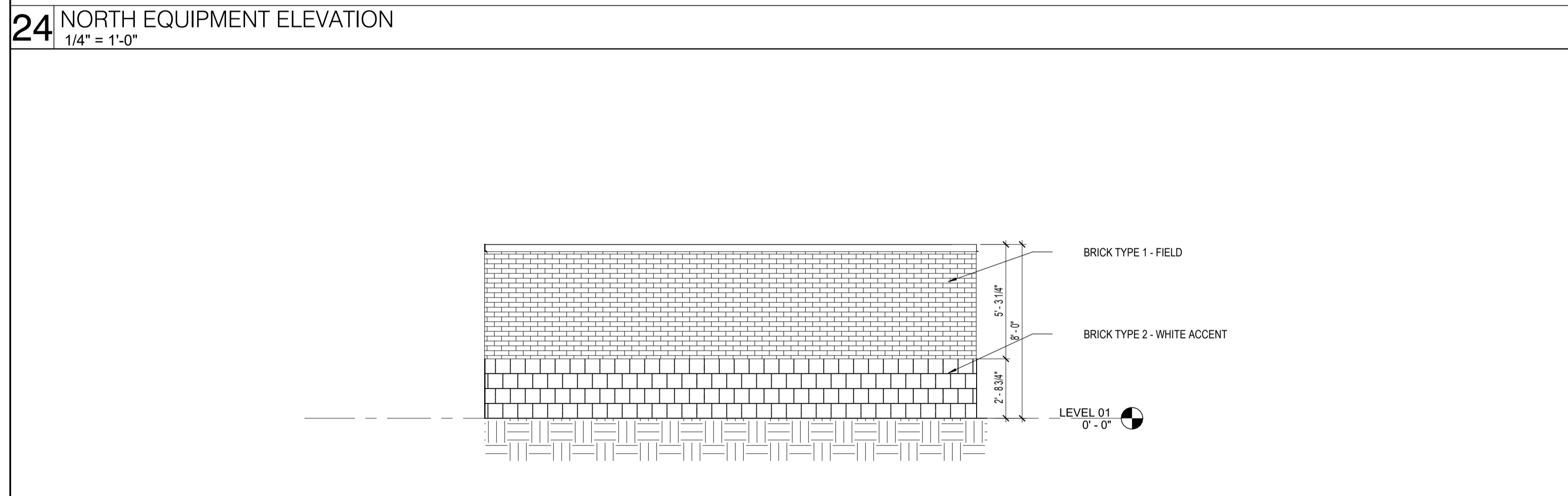
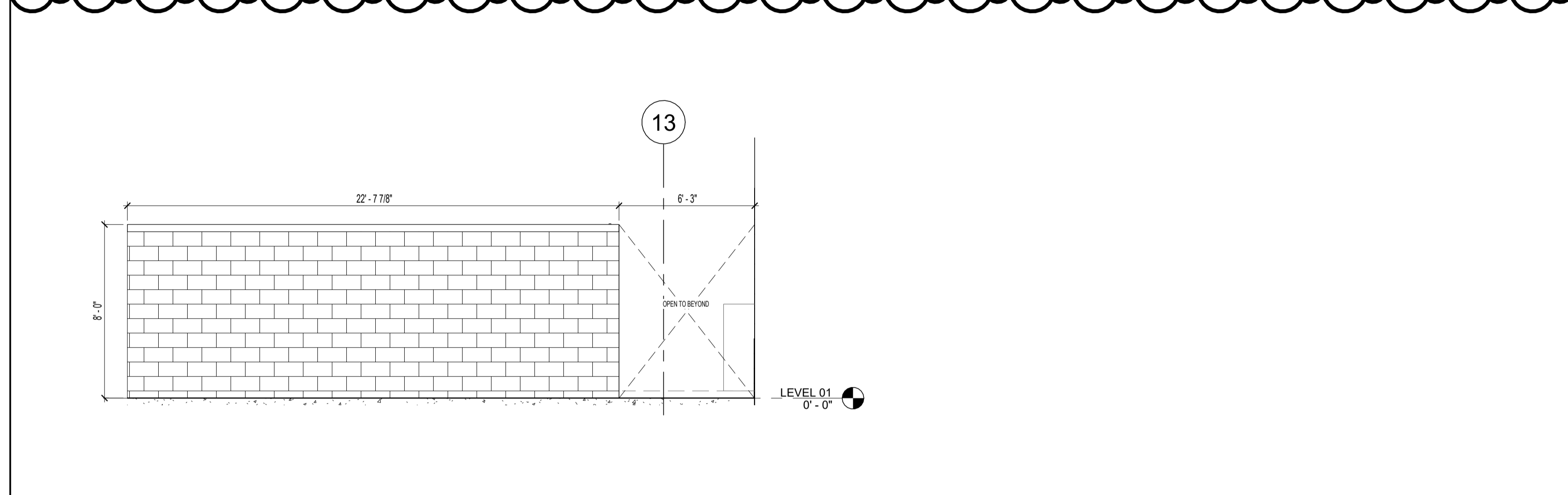
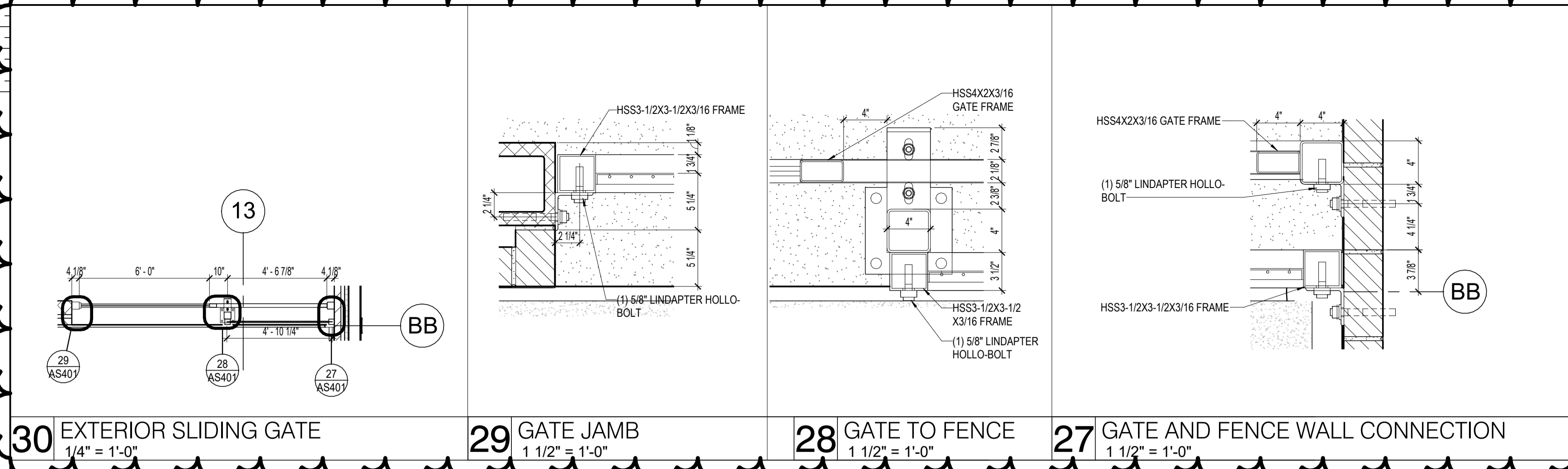
ARCH SITE PLAN LEGEND

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

**06** ARCHITECTURAL SITE PLAN  
1" = 20'-0"

ISSUE FOR CONSTRUCTION

ARCHITECTURAL SITE PLAN

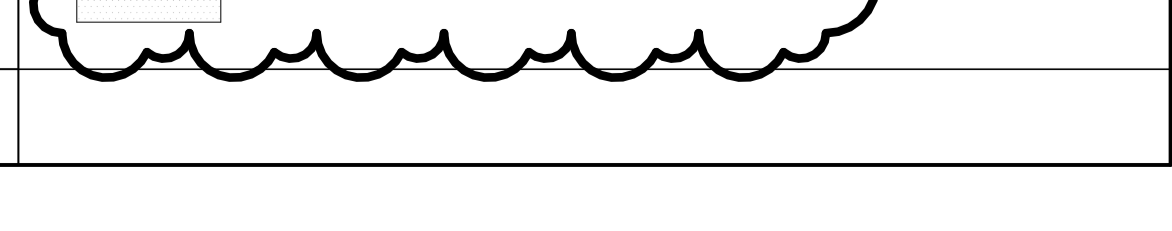
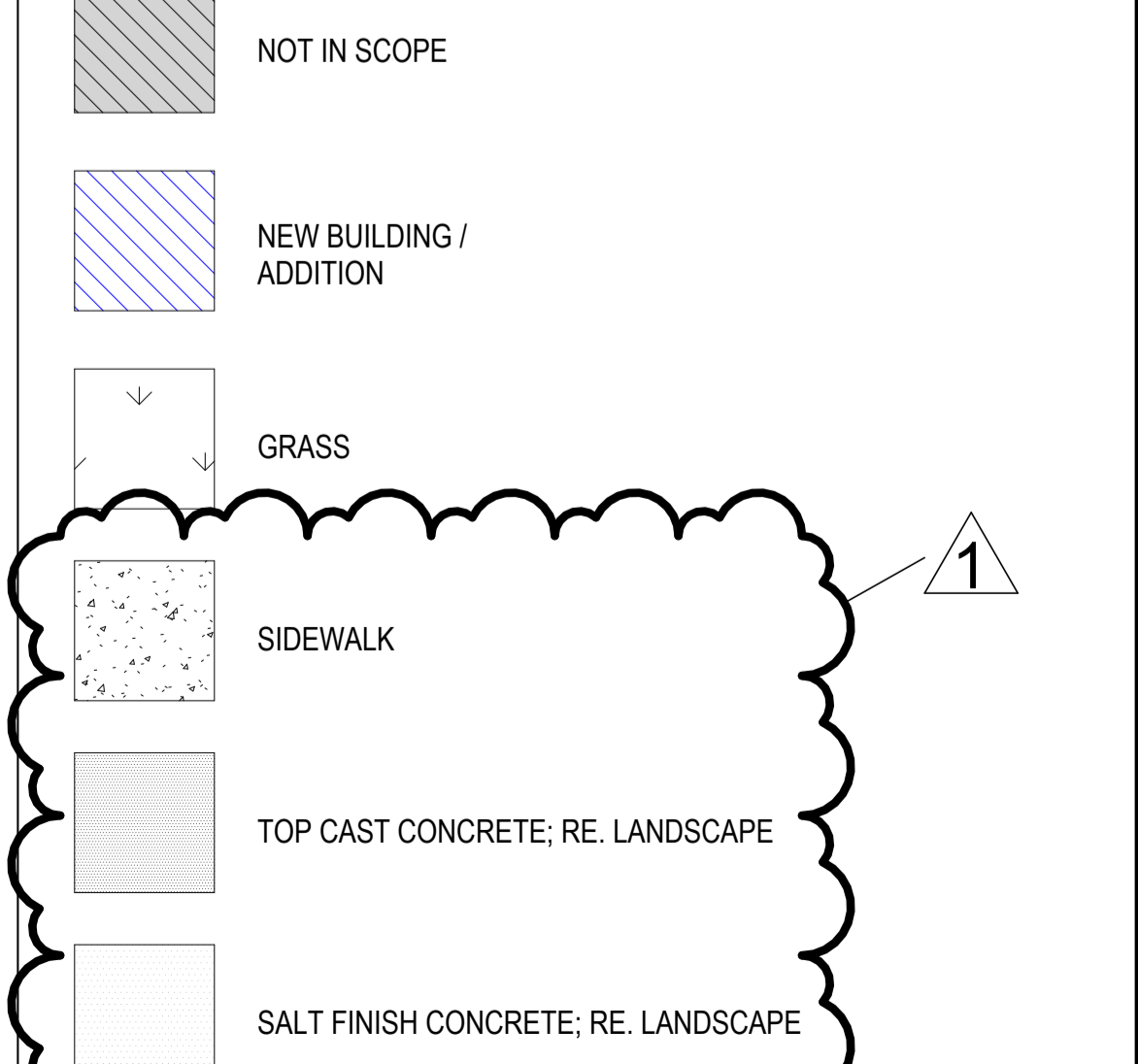
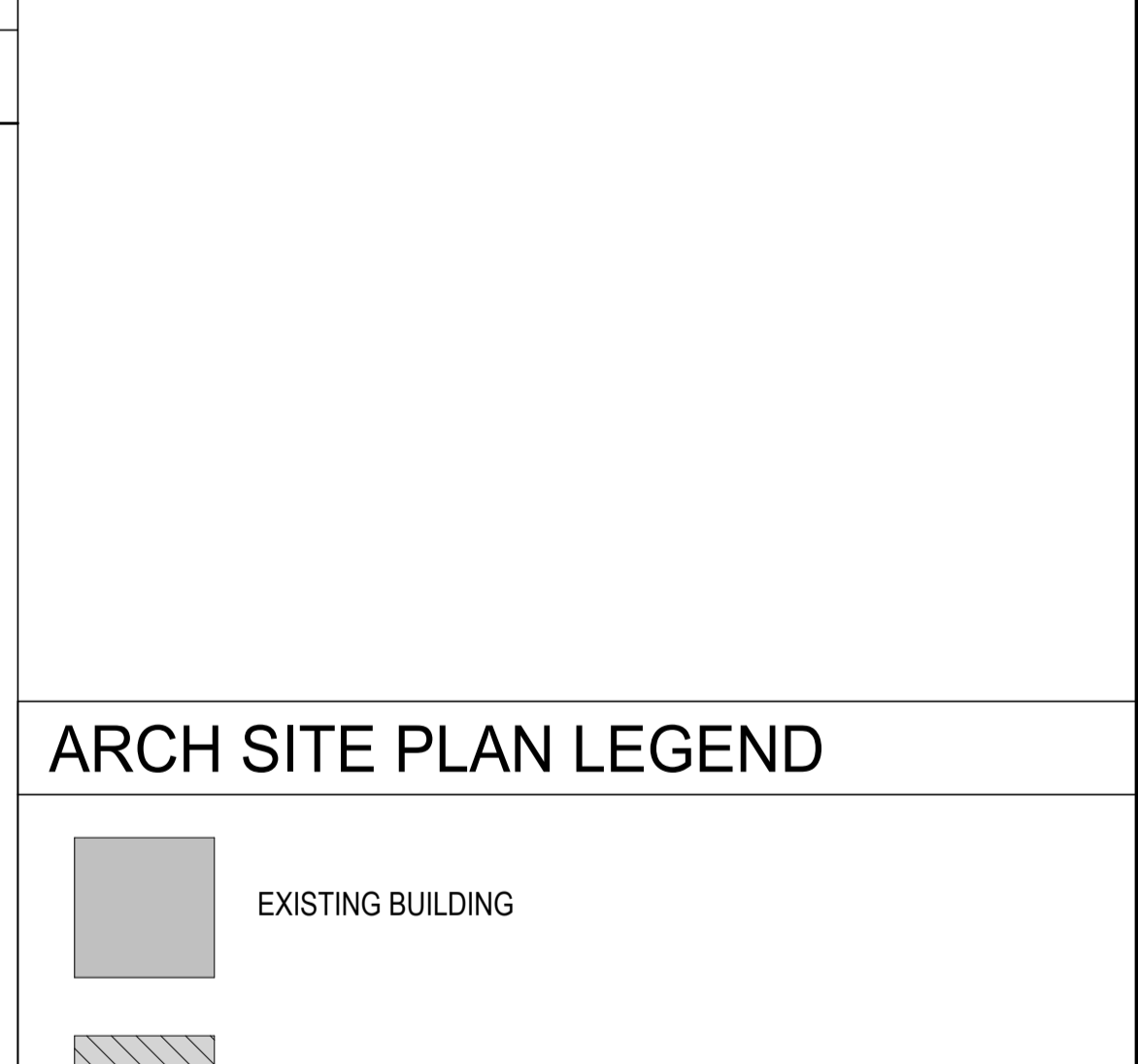


**GENERAL ARCH SITE PLAN NOTES**

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

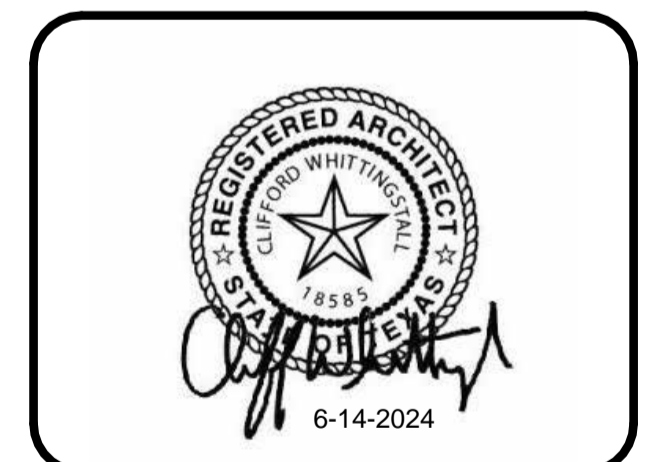
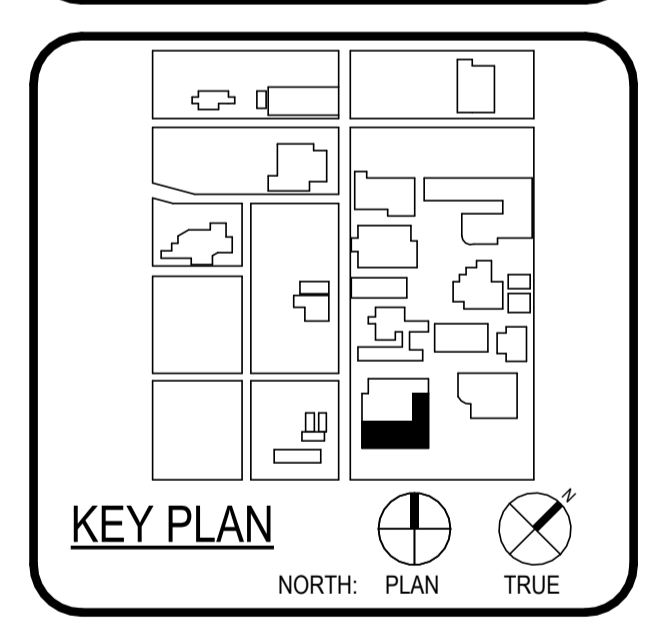
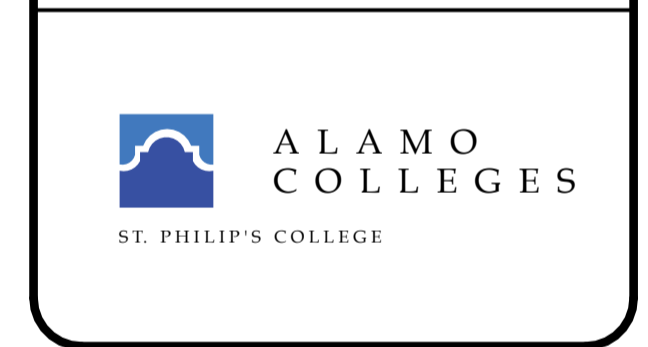
**KEYNOTE LEGEND**

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



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210-820-0578 F  
TX Firm BR 1608

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



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

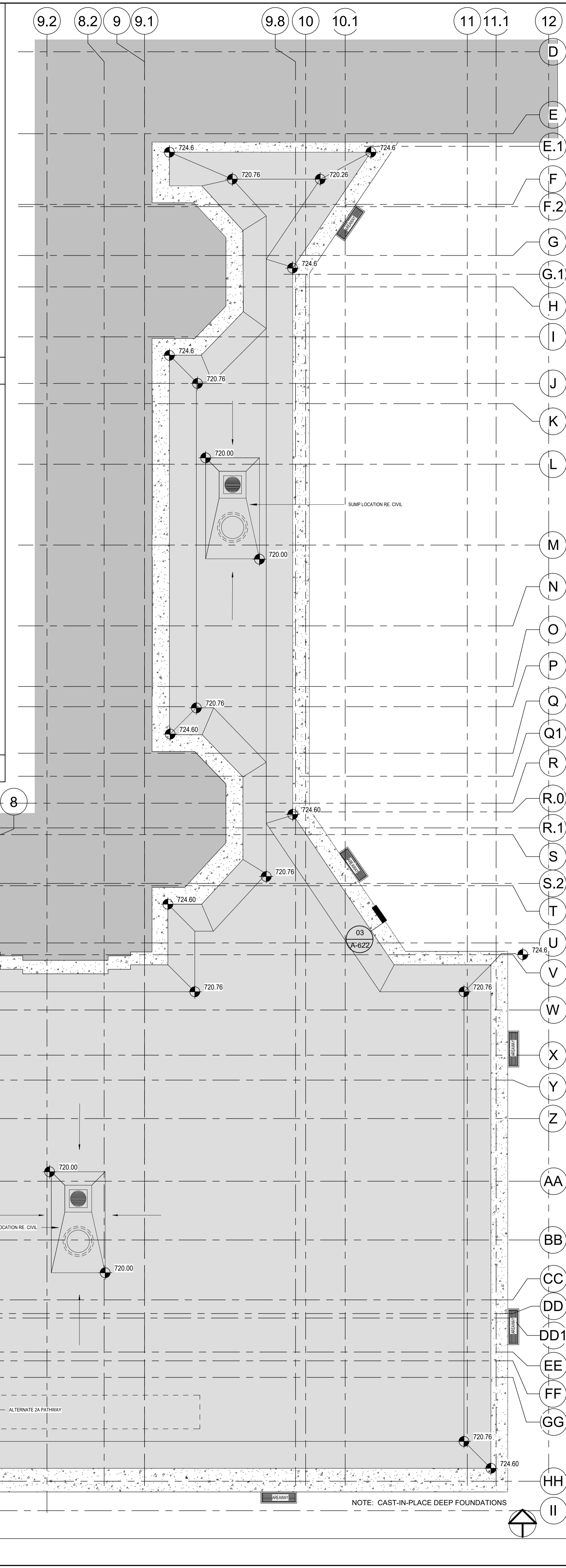
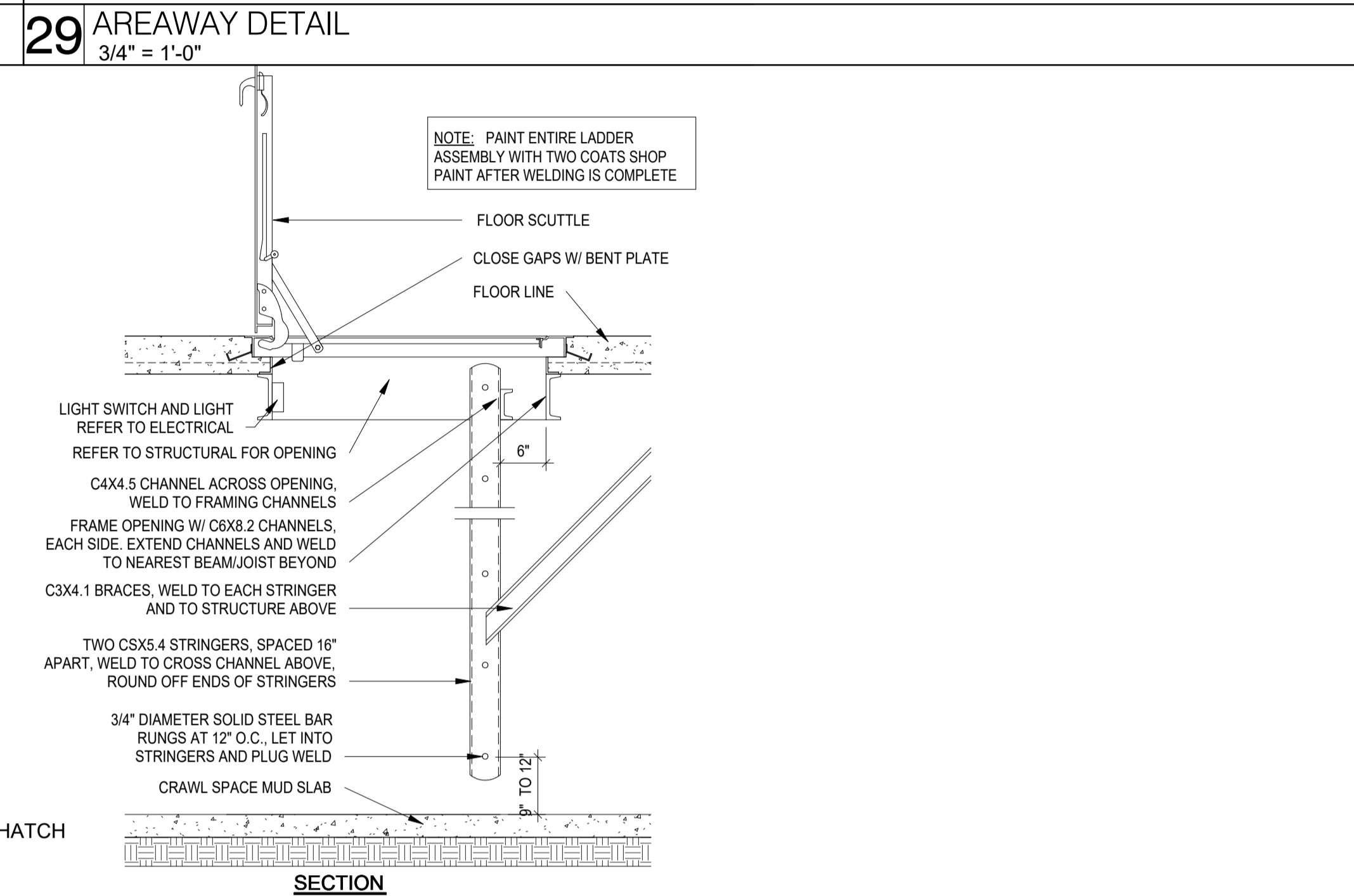
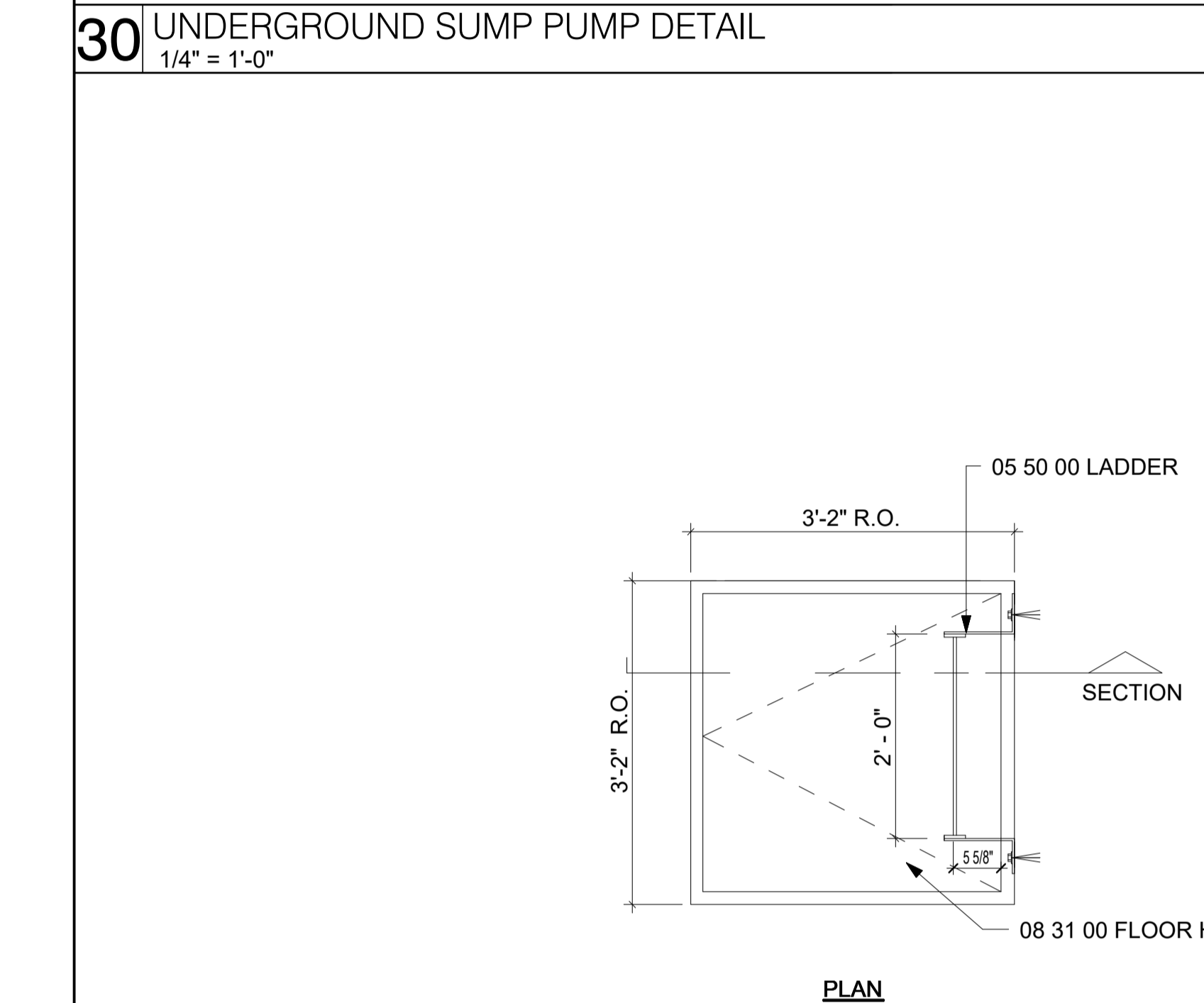
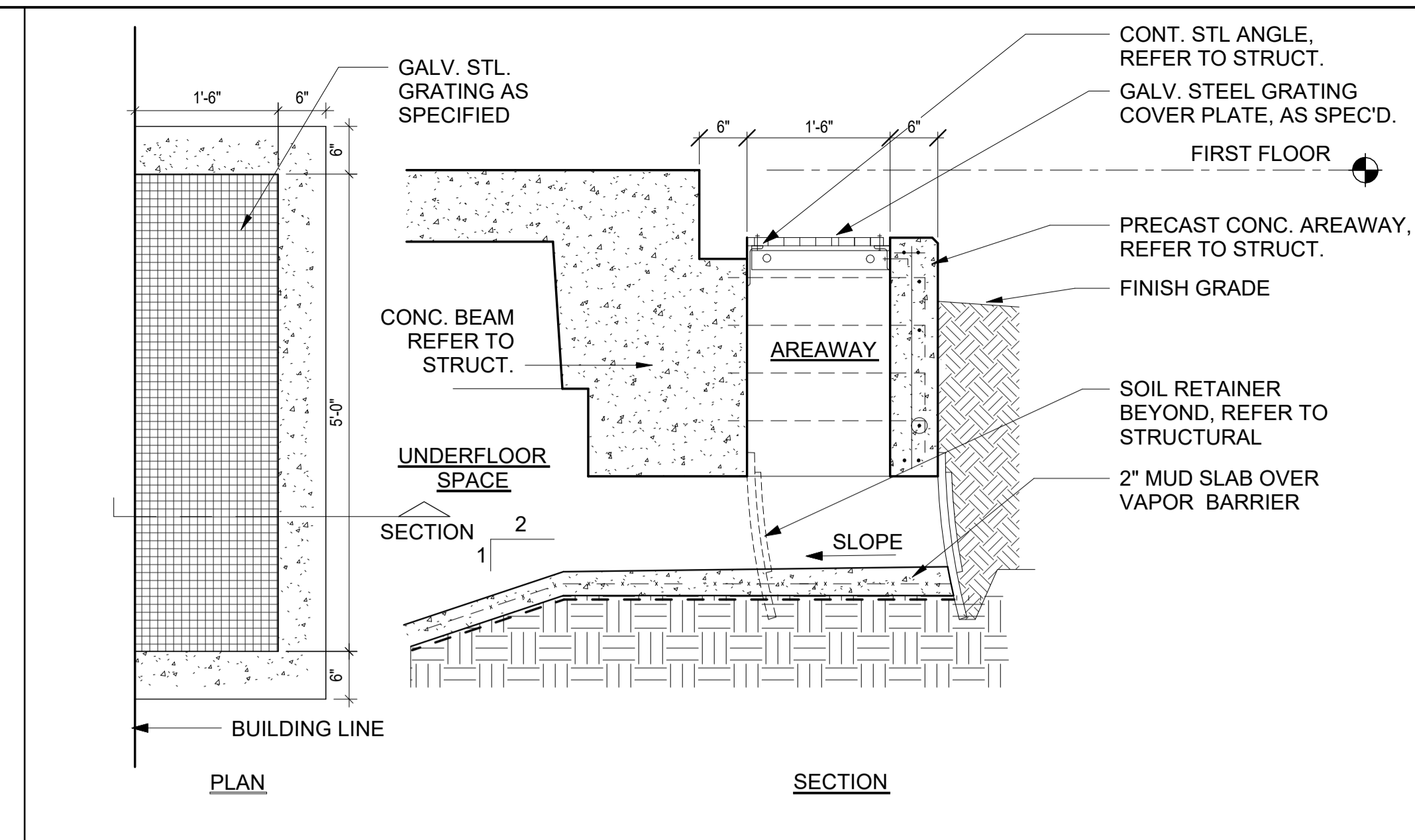
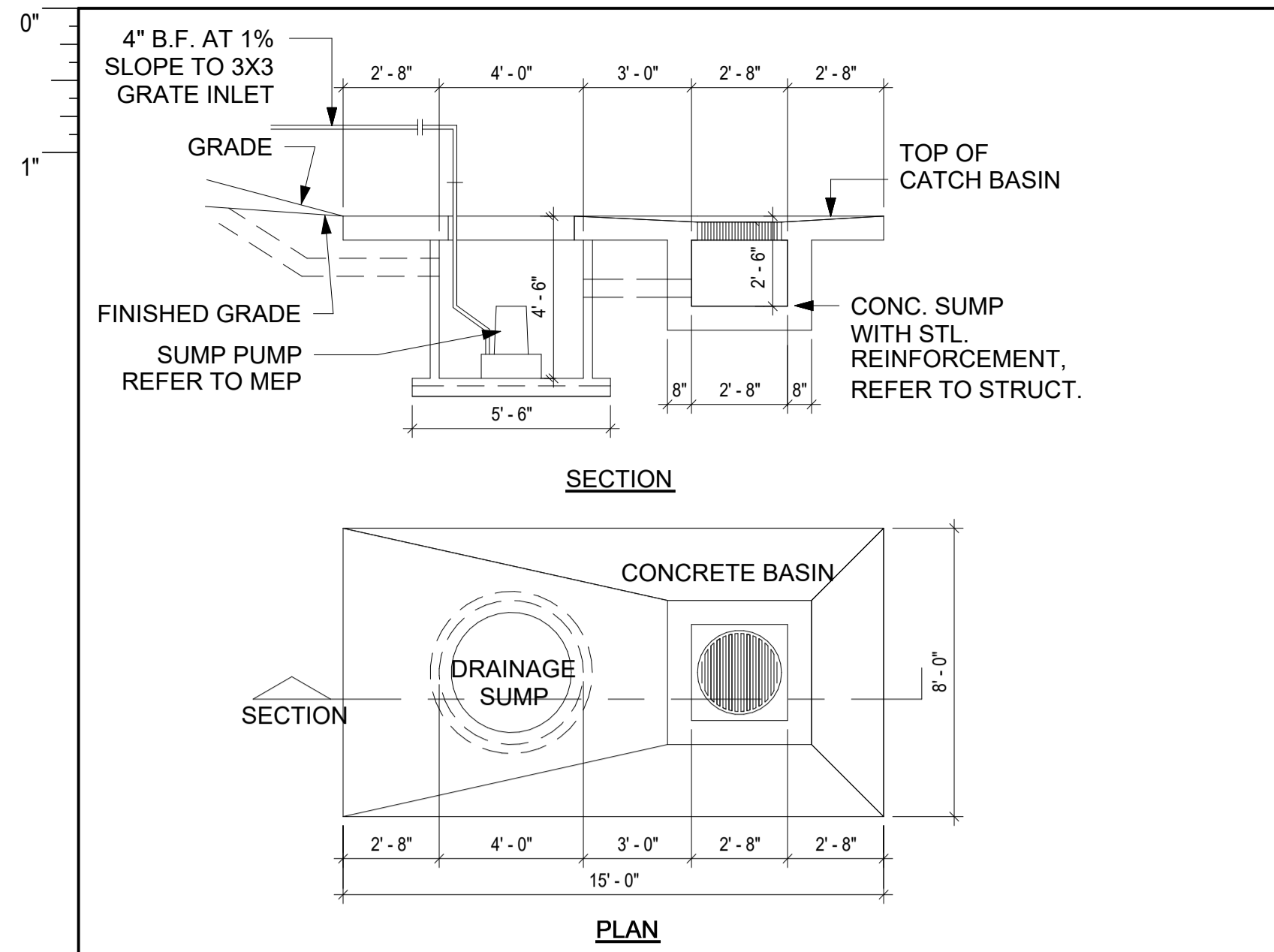
No.	Description	Date
1	AS1 #1 - CITY & OWNER COMMENTS	6-14-2024

**ISSUE FOR CONSTRUCTION**  
BUILDING NUMBER: 1

**ARCHITECTURAL ENLARGED SITE PLANS**

**AS401**





- ### GENERAL ARCH PLAN NOTES
- DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS TAKE PRECEDENCE. CONTACT ARCH IF CLARIFICATION IS NECESSARY IN ORDER TO DETERMINE THE INTENT OF THE CONTRACT DOCUMENTS.
  - DRAWINGS NOTED AS "N.T.S." OR "NTS" ARE NOT TO SCALE.
  - ALL DIMENSIONS ARE TO STRUCTURAL COLUMN LINES OR THE SURFACE OF PARTITION ASSEMBLY U.N.O.
  - FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE COMMENCING WORK. NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH AFFECTED WORK.
  - NOTES OR DIMENSIONS NOTED AS "TYPICAL" OR "TYP." OR "TYP" SHALL APPLY TO CONDITIONS THAT ARE THE SAME OR SIMILAR.
  - DIMENSIONS NOTED AS "FIELD VERIFY" OR "V.I.F." OR "V.I.P." SHALL BE MEASURED AND CONFIRMED AT THE PROJECT SITE BY THE CONTRACTOR AND REVIEWED WITH THE ARCH. BEFORE INCORPORATING INTO THE WORK.
  - DIMENSIONS NOTED AS "CLEAR" OR "CLEAR INSIDE" OR "CLR" REQUIRE SPECIFIC COORDINATION AMONG DISCIPLINES AND/OR MANUFACTURERS.
  - REFER TO PARTITION TYPES ON A-800 SERIES SHEETS.
  - ALL INTERIOR PARTITIONS THIS SHEET, EXCEPT FOR FURR-OUT PARTITIONS, SHALL BE PARTITION TYPE \_38\_ U.N.O.
  - ALL INTERIOR FURR-OUT PARTITIONS THIS SHEET SHALL BE PARTITION TYPE \_F3\_ U.N.O.
  - ADJOIN FINISHED FACE OF WALLS WHERE WALL PARTITIONS OF DIFFERING THICKNESS ABUT AND/OR ADJOIN IN THE SAME PLANE.
  - PROVIDE AND INSTALL CONTINUOUS REVEAL TRIM AT JOINT WHERE GYPSUM BOARD WALL PARTITIONS ABUT AND/OR ADJOIN MASONRY WALL PARTITIONS IN THE SAME PLANE.
  - ALL INTERIOR CMU OUTSIDE CORNERS SHALL HAVE BULLNOSE U.N.O.
  - ALL DOORS SHALL BE SET 4 INCHES OFF THE ADJACENT PERPENDICULAR WALL ON THE HINGE SIDE OF THE DOOR U.N.O. NOTIFY ARCH. OF ANY DOOR-RELATED CONFLICTS, INCLUDING BUT NOT LIMITED TO CONFLICTS CONCERNING ACCESSIBILITY STANDARDS.
  - ALL DOOR THRESHOLDS AT ALL EXTERIOR DOORS SHALL BE SET IN FULL BED OF SEALANT.
  - COORDINATE ALL ROOF DRAIN LEADER LOCATIONS WITH FLOOR PLAN PRIOR TO FLOOR SLAB CONSTRUCTION.
  - ALL FLOOR SLOPES TO FLOOR DRAINS SHALL NOT EXCEED 1:48.
  - PROVIDE AND INSTALL SELF-LEVELING UNDERLAYMENT WHERE UNEVEN FLOOR SLAB EXISTS PRIOR TO INSTALLATION OF FLOOR FINISHES.
  - COORDINATE HOUSEKEEPING PAD LOCATIONS AND DIMENSIONS WITH EQUIPMENT TO BE INSTALLED.
  - ALL FLOOR FINISH CHANGES SHALL OCCUR AT THE CENTERLINE OF DOORS U.N.O.
  - ALL FLOOR FINISH MATERIAL CHANGES SHALL HAVE REDUCER STRIPS.
  - ALL REQUIRED ACCESSIBLE CLEARANCES FOR ALL ITEMS, INCLUDING BUT NOT LIMITED TO ALL COUNTER TOPS, ALL PLUMBING FIXTURES, ALL DRINKING FOUNTAINS, ALL ELECTRIC WATER COOLERS, ALL LAVATORIES, ALL URINALS, ALL TOILETS SHALL BE STRICTLY ENFORCED.
  - APPLY BITUMINOUS COATING TO ALL CONCEALED STRUCTURAL STEEL MEMBERS AT ALL EXTERIOR CANOPY LOCATIONS.
  - REFER TO OTHER DISCIPLINE DOCUMENTS FOR ADDITIONAL SCOPE OF WORK.

### FLOOR FINISH LEGEND

	CONCRETE GRADE BEAM, RE. STRUCT.
	MUD SLAB AREA
	EXISTING BUILDING

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TX Firm BR 1608

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

**ISSUE FOR CONSTRUCTION**

**WFAC Black Box Addition PKG 1**

**KEY PLAN**  
NORTH: PLAN TRUE

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

No.	Description	Date

**ISSUE FOR CONSTRUCTION**  
BUILDING NUMBER: 1

**CRAWLSPACE FLOOR PLAN - COMPOSITE**

**A-100**

DOOR SCHEDULE - PKG1											
MARK	ROOM NAME	PHASE	PAIR	PANEL				FRAME			
				WIDTH	HEIGHT	TYPE	MATERIAL	GLASS	TYPE	FINISH	
LEVEL 01											
159	BLACKBOX	New Construction	PAIR	14' - 0"	12' - 0"	SCU		N	00UE	PAINTED STEEL	

MATERIALS	
AL - ALUMINUM	VL - VINYL
HM - HOLLOW METAL	PL - PLASTIC LAMINATE
HG - HOLLOW METAL GALV	WS - WOOD, SOLID CORE
HS - HM 24 GA. STEEL	WH - WOOD, HOLLOW CORE
SS - STAINLESS STEEL	PTDF - PAINTED TYPE

REMARKS LEGEND	
1.	WITH EGRESS DEVICE
2.	MAGNETIC DOOR HOLDER
3.	FIRE DOOR
4.	ELEVATOR MACHINE ROOM DOORS
5.	ELECTRICAL ROOM DOORS
6.	KICK PLATE ON BOTH SIDES
7.	ACCESS PANEL DOOR
8.	WITH CLOSER

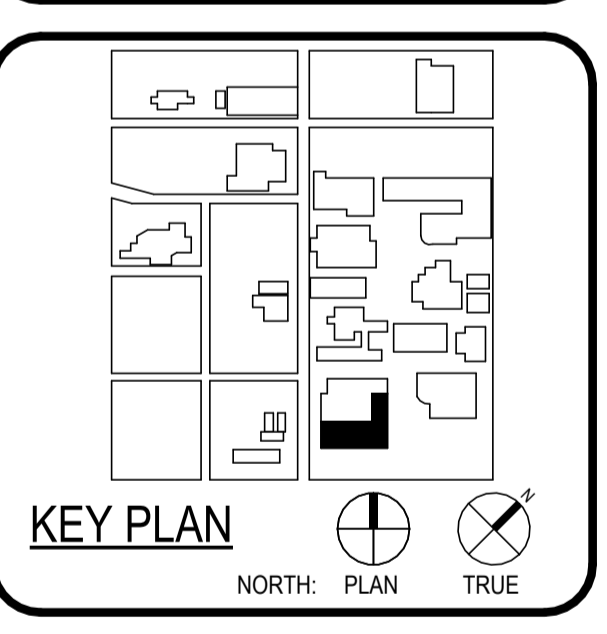


ARCHITECT	PBK Architects, Inc.
SAN ANTONIO 601 N.W. Loop 410, Suite 400 San Antonio, TX 78216 210-829-0123 P 210-829-0578 F TX Firm BR 1608	
ASSOCIATE ARCHITECT	BAA ARCHITECTS
OWNER	ALAMO COLLEGE
DESIGNER	LANDSCAPE
ENGINEER	STRUCTURAL
MECHANICAL ENGINEERING	MECHANICAL
ELECTRICAL	ELECTRICAL
ENVIRONMENTAL	ENVIRONMENTAL
MEASUREMENT	MEASUREMENT
PREPARED	PREPARED
DATE	DATE

**WFAC Black Box Addition PKG 1**

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

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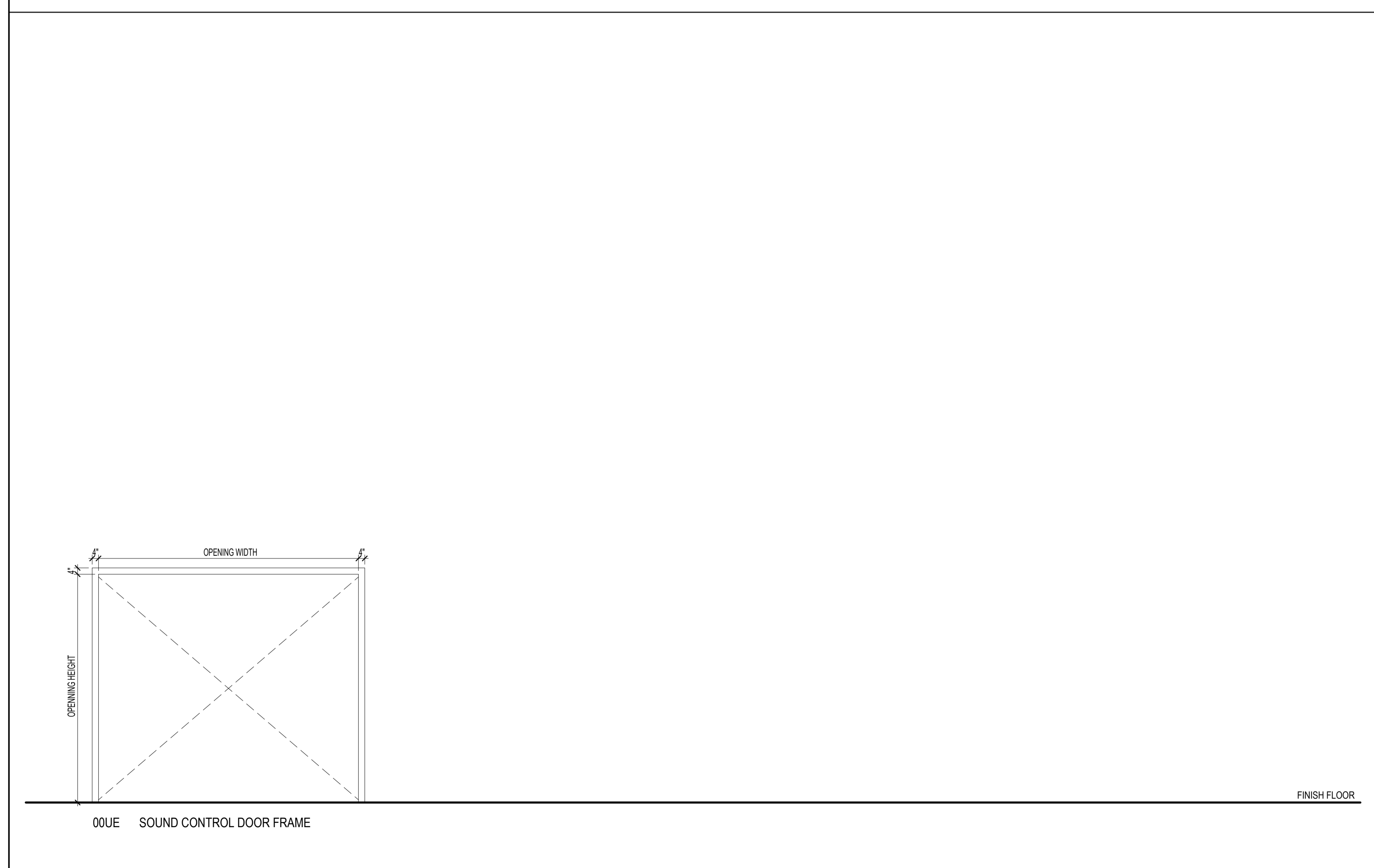


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Alamo Colleges	PROJECT NUMBER	
DATE	230462	
2024/06/14		
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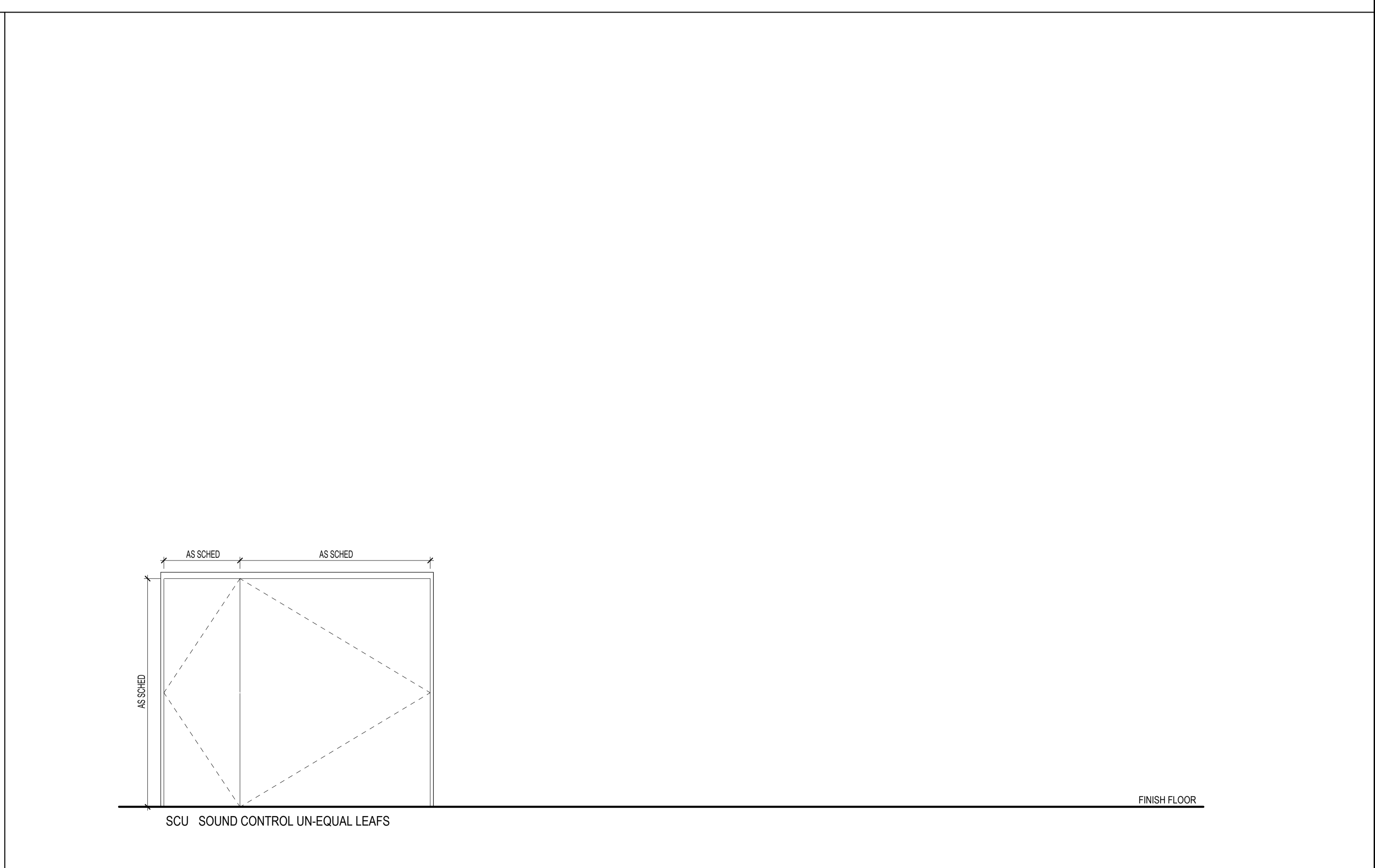
**ISSUE FOR CONSTRUCTION**

BUILDING NUMBER 1

**DOOR SCHEDULE  
 PANEL AND FRAME  
 TYPES**

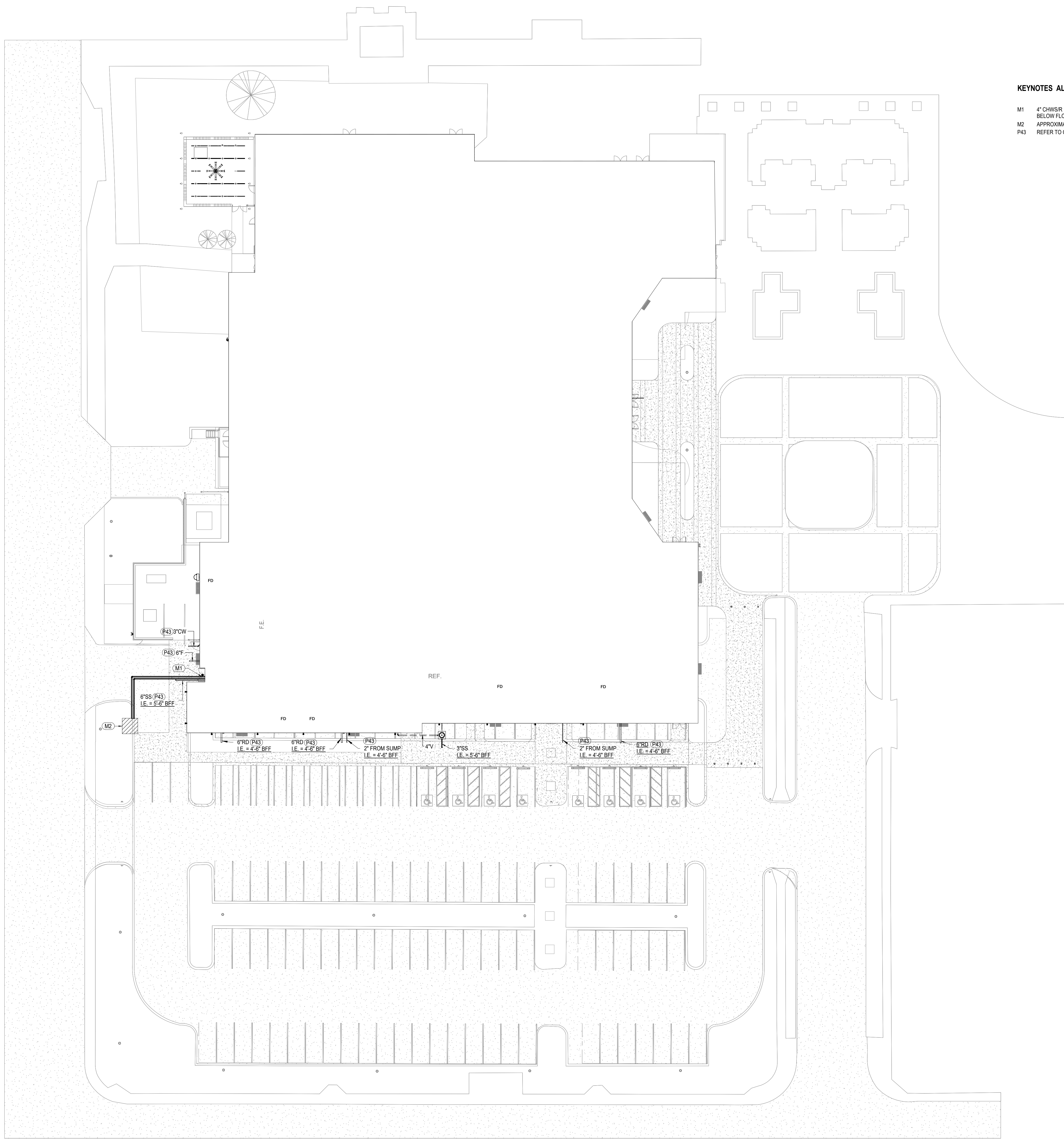


**DOOR FRAME CONFIGURATIONS PKG 1**  
 1/4" = 1'-0"



**DOOR PANEL TYPES PKG 1**  
 1/4" = 1'-0"

# ISSUE FOR CONSTRUCTION



### KEYNOTES ALL

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

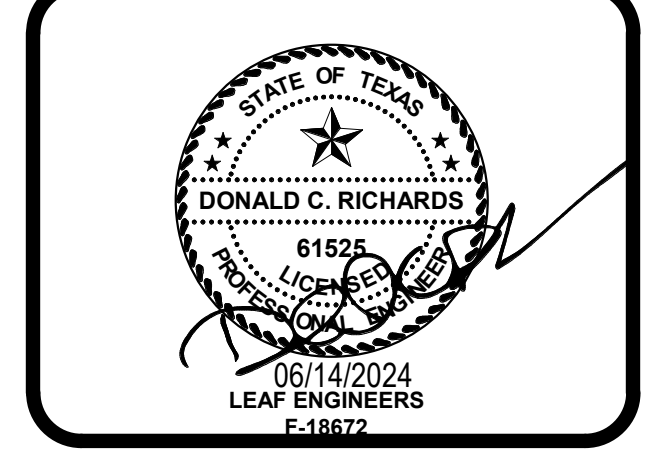
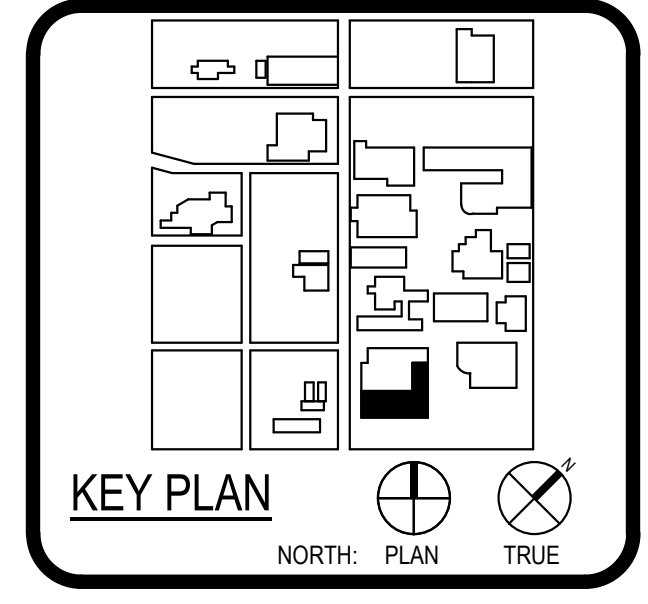


ARCHITECT	PBK Architects, Inc. SAN ANTONIO 601 N.W. Loop 410, Suite 400 San Antonio, TX 78216 210-820-0123 P 210-829-0578 F TX Firm BR 1608
ASSOCIATE ARCHITECT	BA ARCHITECTS 200 1311 BRASS LANDSCAPE DESIGN GROUP 1311 BRASS LUNNEY & FRANKS ENGINEERING 1311 BRASS MEP 1311 BRASS PROVIDOR MECHANICAL 1311 BRASS 1311 BRASS



WFAC Black Box Addition PKG 1

1801 Marlin Luther King Dr.  
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DATE	06/14/2024	PROJECT NUMBER 230462
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No.	Description	Date

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BUILDING NUMBER 1

MECHANICAL AND PLUMBING SITE PLAN

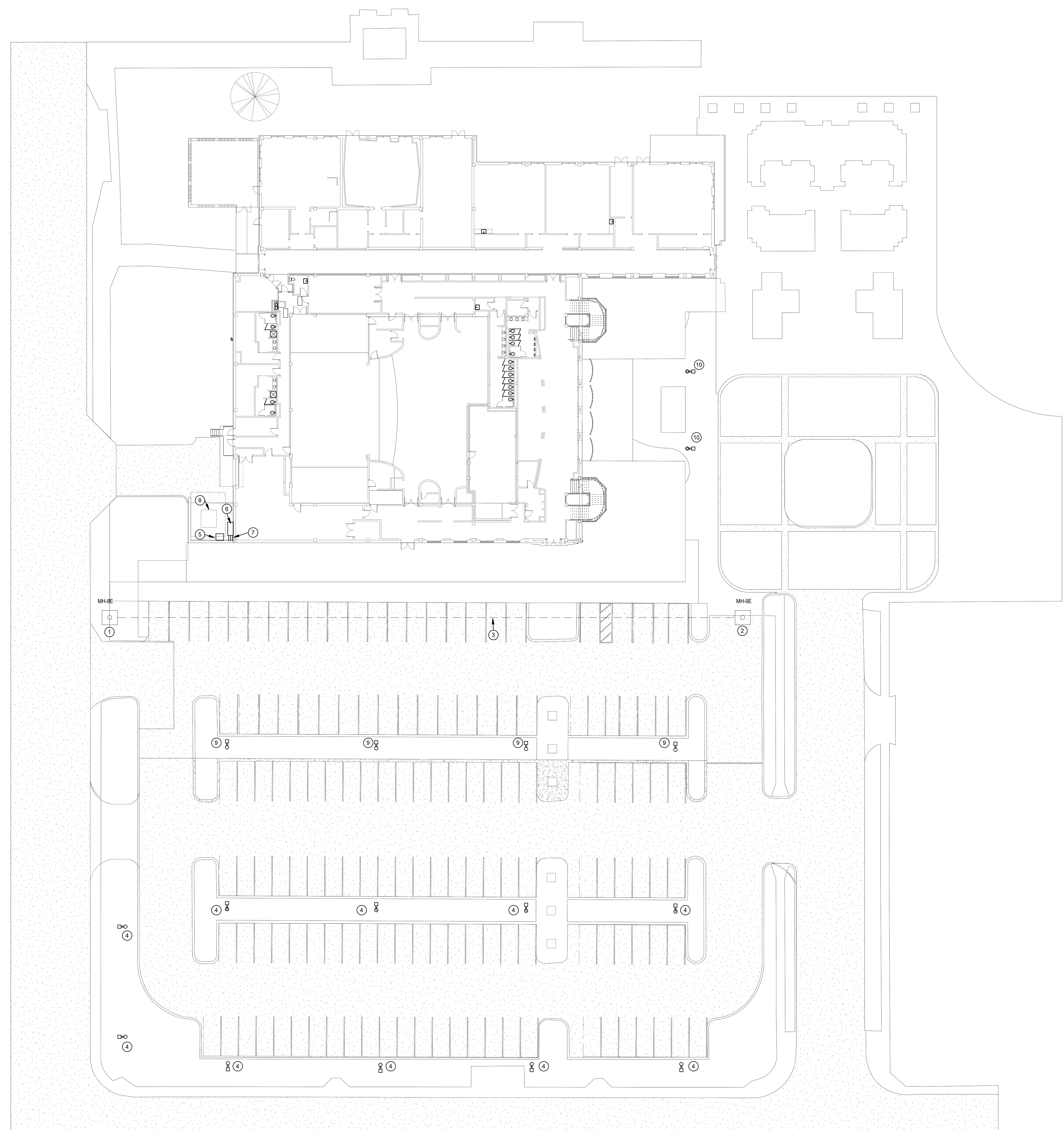
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Author  
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**DEMO SITE PLAN GENERAL NOTES:**

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

**SITE PLAN KEYED NOTES:**

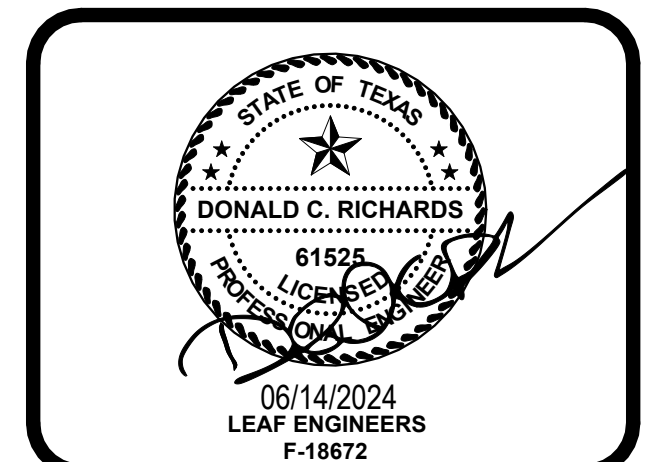
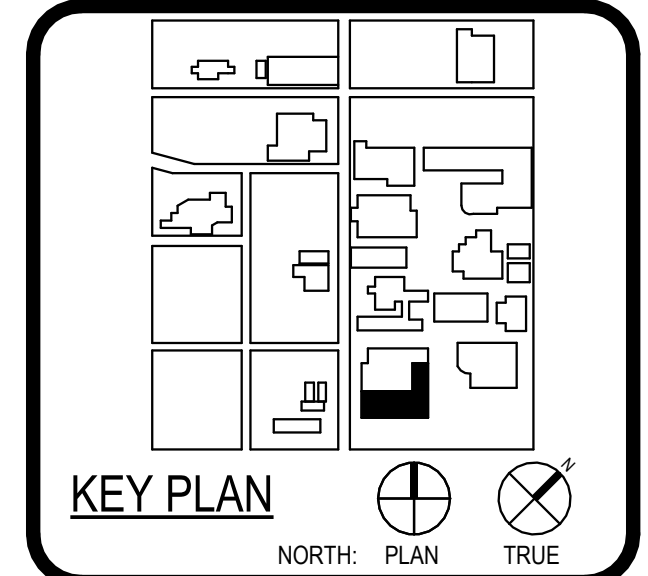
- EXISTING ELECTRICAL MANHOLE.
- EXISTING ELECTRICAL MANHOLE SHALL BE DEMOLISHED AND RELOCATED.
- EXISTING UNDERGROUND ELECTRICAL DUGBANK WITH 4 EXISTING CONDUITS TO BE REROUTED FOR NEW BLACK BOX EXPANSION.
- CONTRACTOR TO VERIFY NEW CONSTRUCTIONS DOES NOT OVERLAP EXISTING PARKING LOT LIGHTING. IF NEW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



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ASSOCIATE ARCHITECT	B&A ARCHITECTS 1100 N. LOOP WEST SUITE 1000 SAN ANTONIO, TEXAS 78207 210-441-0000
CONSULTANT	LANDSCAPE TERRACE GROUP 1111 W. LOOP WEST SUITE 1000 SAN ANTONIO, TEXAS 78207 210-441-0000
MECHANICAL ENGINEER	LUNY & FRANK ENGINEERING 1100 N. LOOP WEST SUITE 1000 SAN ANTONIO, TEXAS 78207 210-441-0000
ELECTRICAL ENGINEER	LEAF ENGINEERS 1801 MAIN LUTHER KING DR. SAN ANTONIO, TX 78203 210-848-9800



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**DEMO SITE POWER PLAN**

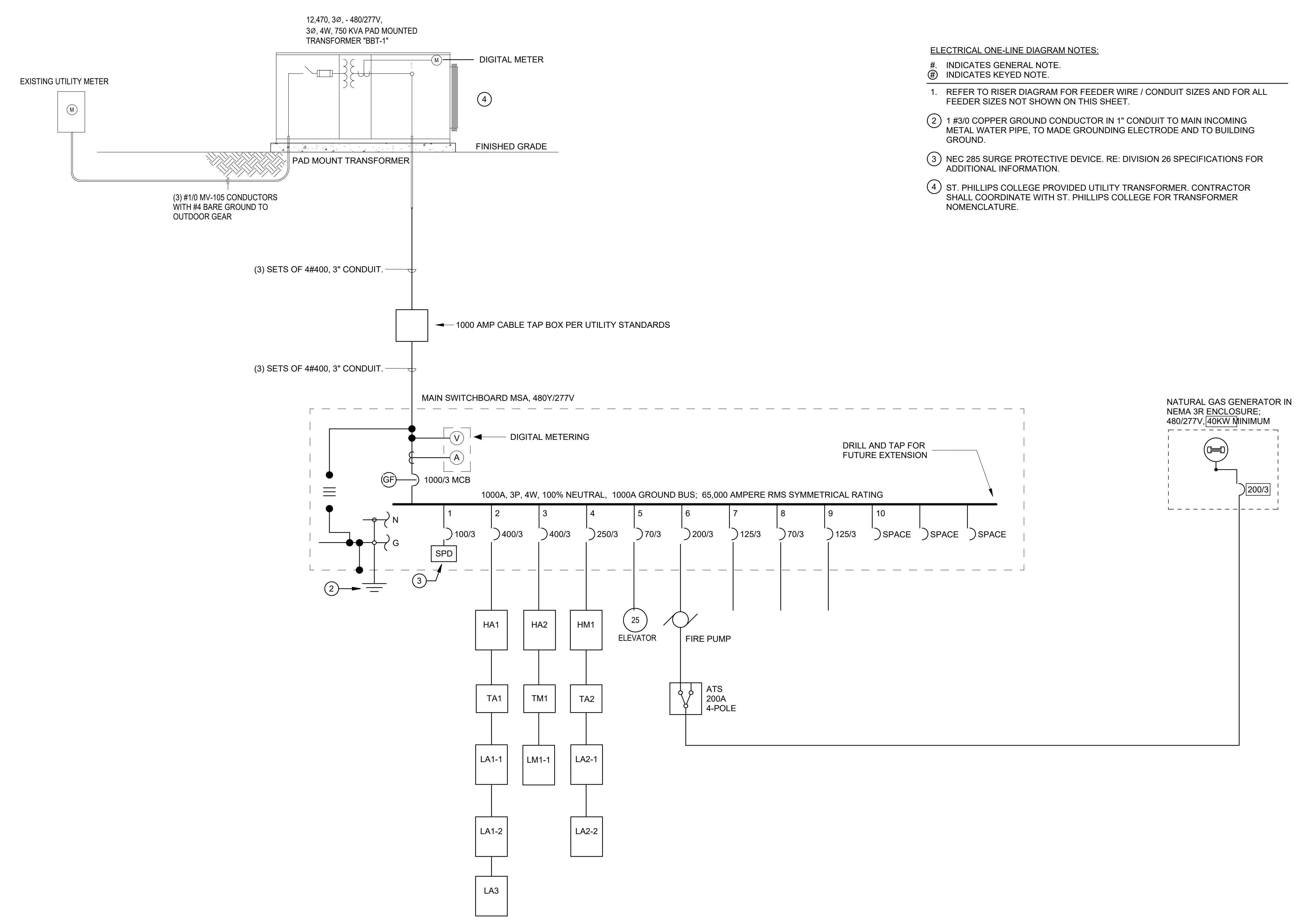
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- ELECTRICAL ONE-LINE DIAGRAM NOTES:**
- # INDICATES GENERAL NOTE.
  - ② INDICATES KEYED NOTE.
  - 1. REFER TO RISER DIAGRAM FOR FEEDER WIRE / CONDUIT SIZES AND FOR ALL FEEDER SIZES NOT SHOWN ON THIS SHEET.
  - 2. 1 #3/0 COPPER GROUND CONDUCTOR IN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

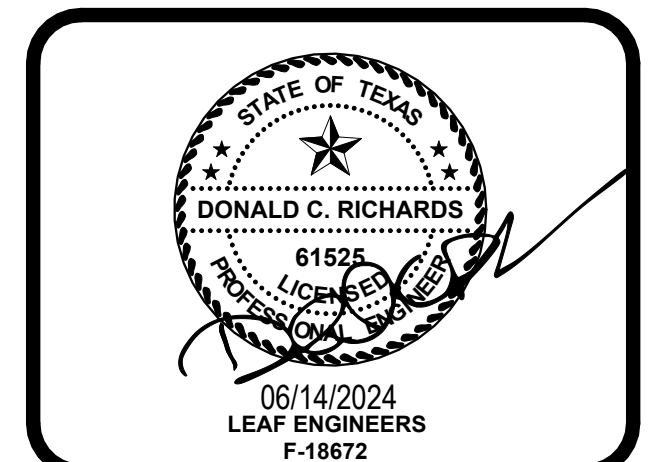
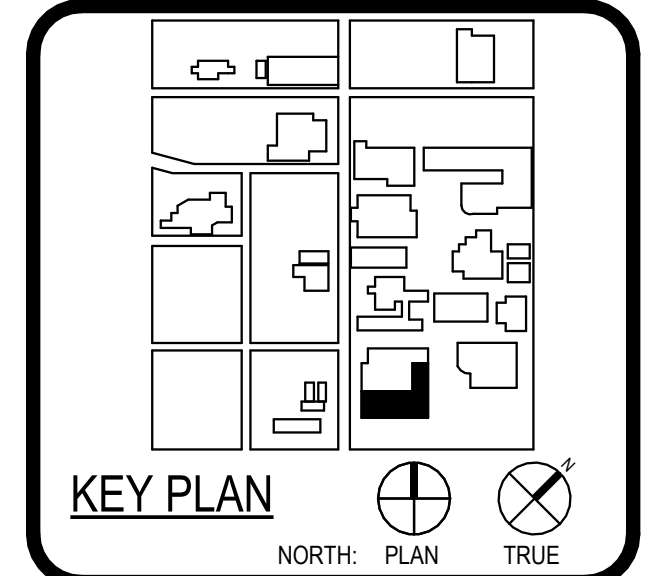


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ASSOCIATE ARCHITECT	B&A ARCHITECTS
DESIGNER	DESIGNER
LANDSCAPE	LANDSCAPE
STRUCTURAL	STRUCTURAL
Mechanical	Mechanical
Electrical	Electrical
Plumbing	Plumbing
Fire Protection	Fire Protection
Signage	Signage
Specialty	Specialty
Construction	Construction



WFAC Black Box Addition PKG 1

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 San Antonio, TX 78203  
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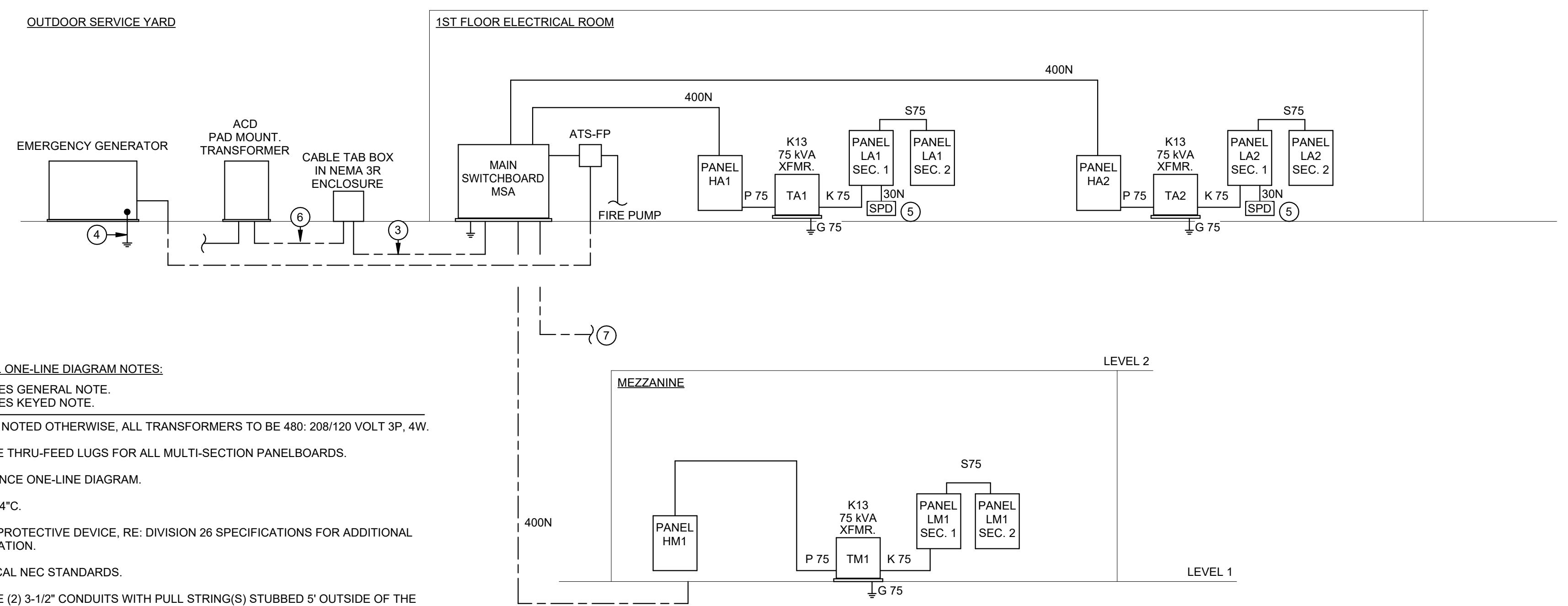
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ELECTRICAL  
 ONE-LINE DIAGRAM

E-501

5  
1



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

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

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

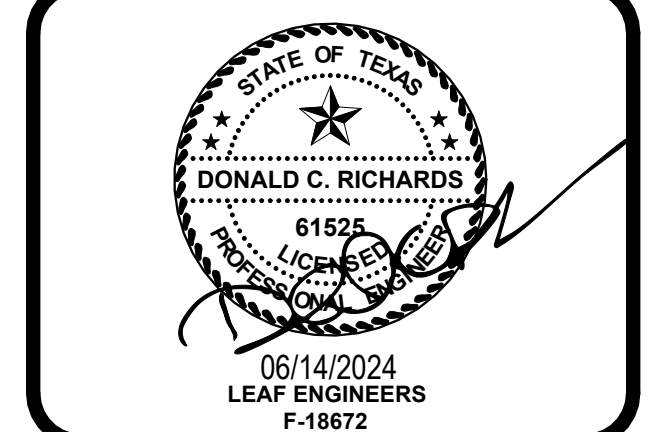
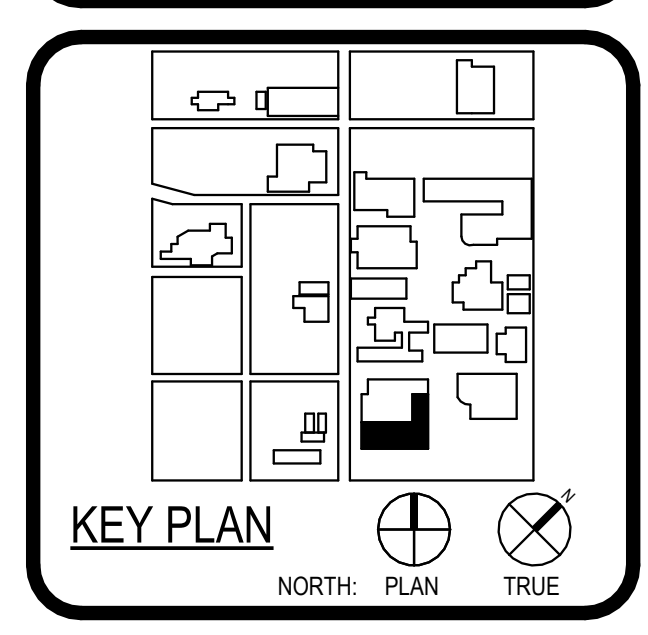
TRANSFORMER FEEDER SCHEDULE				
TAG NUMBER	CONDUCTOR QUANTITY AND SIZE	CONDUIT SIZE	SETS	COMMENTS
P15	3#10, 1#10G	3/4"	1	
S15	4#6, 1#6G	1 1/2"	1	
K15	3#4, 1#6N, 1#6G	1 1/4"	1	
G15	1#6G	1/2"	1	
P15	2#6, 1#10G	3/4"	1	FOR 480 1Ø: 120/240 1Ø TRANSFORMERS
S15	3#4, 1#6G	1 1/2"	1	FOR 480 1Ø: 120/240 1Ø TRANSFORMERS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



ARCHITECT PBK Architects, Inc.  
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TX Firm BR 1608



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



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

ISSUE FOR CONSTRUCTION  
BUILDING NUMBER 1

**ELECTRICAL RISER DIAGRAM**

5'  
1'

ISSUE FOR CONSTRUCTION

GENERAL ELECTRICAL NOTES

- 1. UNLESS SPECIFICALLY INDICATED ON THE DRAWINGS OR OTHERWISE INSTRUCTED BY THE ARCHITECT, ELECTRICAL OUTLETS SHALL HAVE THE FOLLOWING MOUNTING HEIGHTS. DIMENSIONS ARE TO CENTER OF BOX UNLESS OTHERWISE NOTED. WALL SWITCHES, 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 TO SERVE EQUIPMENT, PUSH BUTTONS, ADA VISUAL ALARM.

AFF = ABOVE FINISHED FLOOR  
AFG = ABOVE FINISHED GRADE

- 2. UNLESS SPECIFICALLY INDICATED ON THE ELECTRICAL DRAWINGS, OUTLETS LOCATED AT COUNTERS AND CABINETS SHALL BE MOUNTED AS SHOWN ON ARCHITECTURAL DETAILS AND ELEVATIONS, OR AS DIRECTED BY ARCHITECT. 3. COORDINATE MOUNTING HEIGHTS AND DETAILS OF ALL OUTLETS (POWER, SIGNAL, ETC.) WITH ARCHITECTURAL CASEWORK DRAWINGS PRIOR TO DIVISION 26 ROUGH-IN. PROVIDE COORDINATION DRAWINGS IN ACCORDANCE WITH DIVISION 26 SPECIFICATIONS WHERE CONFLICTS EXIST. OBTAIN APPROVAL FROM ARCHITECT BEFORE ELECTRICAL ROUGH-IN WHEN CONFLICTS ARISE. 4. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION OF ALL HVAC AND PLUMBING EQUIPMENT. CIRCUITING A. BRANCH CIRCUITING IS SCHEMATIC IN NATURE AND IS INTENDED TO INDICATE CIRCUIT LOADING AND CONTROL. 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. B. WHERE WIRE SIZE AND CONDUIT SIZE IS NOT INDICATED ON THE DRAWINGS AND/OR PANEL SCHEDULES, REFER TO SPECIFICATIONS FOR MINIMUM SIZE REQUIRED. C. 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. D. 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. 6. THE ELECTRICAL CONTRACTOR SHALL COMPLY WITH ALL AUTHORITIES HAVING JURISDICTION, NEC, ALL STATE AND LOCAL CODES AND AMENDMENTS.

GENERAL ELECTRICAL REMODEL NOTES

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

AFF = ABOVE FINISHED FLOOR  
AFG = ABOVE FINISHED GRADE

- 2. UNLESS SPECIFICALLY INDICATED ON THE ELECTRICAL DRAWINGS, OUTLETS LOCATED AT COUNTERS AND CABINETS SHALL BE MOUNTED AS SHOWN ON ARCHITECTURAL DETAILS AND ELEVATIONS, OR AS DIRECTED BY ARCHITECT. 3. COORDINATE MOUNTING HEIGHTS AND DETAILS OF ALL OUTLETS (POWER, SIGNAL, ETC.) WITH ARCHITECTURAL CASEWORK DRAWINGS PRIOR TO DIVISION 26 ROUGH-IN. PROVIDE COORDINATION DRAWINGS IN ACCORDANCE WITH DIVISION 26 SPECIFICATIONS WHERE CONFLICTS EXIST. OBTAIN APPROVAL FROM ARCHITECT BEFORE ELECTRICAL ROUGH-IN WHEN CONFLICTS ARISE. 4. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION OF ALL HVAC AND PLUMBING EQUIPMENT. CIRCUITING A. BRANCH CIRCUITING IS SCHEMATIC IN NATURE AND IS INTENDED TO INDICATE CIRCUIT LOADING AND CONTROL. 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. B. WHERE WIRE SIZE AND CONDUIT SIZE IS NOT INDICATED ON THE DRAWINGS AND/OR PANEL SCHEDULES, REFER TO SPECIFICATIONS FOR MINIMUM SIZE REQUIRED. C. 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. D. 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. 6. WHEN REMOVING EXISTING ELECTRICAL WORK WHERE OTHER ITEMS REMAIN ON THE SAME CIRCUIT, THE CONTRACTOR SHALL TAKE WHATEVER STEPS ARE NECESSARY TO MAINTAIN CIRCUIT CONTINUITY. ALL ITEMS NOTED TO BE REMOVED ARE TO REMAIN THE PROPERTY OF THE OWNER, HOWEVER, CONTRACTOR SHALL REMOVE FROM JOB SITE ALL MATERIAL NOT RETAINED BY OWNER. FIELD VERIFY CONDITION OF, AND MODIFICATIONS AND ADDITIONS TO, ALL EXISTING ELECTRICAL FIXTURES, PANELS, WIRING, ETC. WHERE DOORS ARE ADDED, OR PORTIONS OF WALLS REMOVED, CONTRACTOR SHALL REMOVE OR RELOCATE ALL ELECTRICAL WORK NECESSARY FOR THE REMODELING MODIFICATION, WHETHER OR NOT THIS WORK IS NOTED ON PLANS. WHERE EXISTING JUNCTION BOXES ARE COVERED OR REMOVED, CONTRACTOR SHALL TAKE WHATEVER STEPS ARE NECESSARY TO COMPLY WITH NEC 314-19. EXISTING ELECTRICAL BOXES TO REMAIN IN AREAS WHERE NEW WALL FINISHES ARE TO BE APPLIED SHALL BE RESET AS NECESSARY TO PROVIDE FLUSH MOUNTING FOR BOXES. CONTRACTOR SHALL FIELD VERIFY EXISTING BRANCH CIRCUIT LOADING WHEN MAKING MODIFICATIONS AND/OR ADDITIONS TO THAT CIRCUIT. IF NEW WORK WOULD OVERLOAD EXISTING CIRCUIT, CONTRACTOR SHALL LOCATE ANOTHER EXISTING CIRCUIT (THE CLOSEST), WHICH WOULD NOT BE OVERLOADED UPON ADDING NEW LOAD, AND SHALL TIE NEW LOAD INTO THAT CIRCUIT. WHEN EXISTING ELECTRICAL WORK IS REMOVED, ALL EXPOSED CONDUIT, WIRING, CONTROL AND JUNCTION BOXES ALONG WALLS, FLOOR, AND CEILING SHALL BE REMOVED. BRANCH CIRCUIT WIRES SHALL BE REMOVED BACK TO CIRCUIT BREAKER(S). BLANK COVER PLATES SHALL BE PROVIDED FOR RECESSED UNDER WORK COVERED IN OTHER SECTIONS. EXISTING RECESSED INCANDESCENT AND HID LUMINAIRES DESIGNATED FOR TEMPORARY REMOVAL AND RE-USE SHALL BE STORED. ALL SUCH LUMINAIRES NOT THERMALLY PROTECTED PER NEC 410-118 AND 410-130(F) ARE NOT SUITABLE FOR RE-USE AND SHALL BE GIVEN TO THE OWNER. PROVIDE NEW REPLACEMENT LUMINAIRES WITH UL THERMAL PROTECTION, IDENTICAL APERTURE, EQUIVALENT PHOTOMETRICS AND NEW LAMPS. CONTRACTOR TO REFER TO ARCHITECTURAL DEMOLITION PLANS AND PHASING PLANS AND HAVE A GOOD UNDERSTANDING OF SCOPE OF PROJECT PRIOR TO COMMENCEMENT OF WORK. LUMINAIRE SUPPORT IN SUSPENDED CEILING: A. PROVIDE MEANS OF SUPPORT FOR LUMINAIRES PER NEC 410-16. T BAR CLIPS SHALL BE INSTALLED ON THE LUMINAIRE AND SHALL BE FIELD SECURED TO THE INVERTED CEILING TEES SO THAT THE LUMINAIRE IS SECURELY FASTENED TO THE CEILING SYSTEM FRAMING MEMBERS. B. 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. C. LUMINAIRES SHALL BE CENTERED IN CEILING TILE. D. LUMINAIRE SHALL HAVE FLANGE OR TRIM RING FOR CLOSURE OF CEILING CUTOUT OR OPENING. FIRE-RATED CEILING ASSEMBLY: FOR LUMINAIRES TO BE FUSH-MOUNTED INTO A FIRE-RATED CEILING OR SURFACE MOUNTED TO A FIRE-RATED CEILING, INSTALL WITH INDEPENDENT, SECURE SUPPORT, RACEWAY, CABLE ASSEMBLY 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

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

- G.1 REFER TO ARCHITECTURAL REFLECTED CEILING PLANS, ELEVATIONS, SECTIONS, AND DETAILS FOR THE EXACT LOCATION OF ALL LUMINAIRES. ARCHITECTURAL PLANS SHALL GOVERN FOR LOCATION AND LAYOUT. IF ARCHITECTURAL AND ELECTRICAL DRAWINGS CONFLICT IN EXACT COUNT OR FIXTURE TYPE, PROVIDE THE GREATER QUANTITY OR COST TYPE UNLESS OTHERWISE INSTRUCTED. G.2 REFER TO DIVISION 26 ELECTRICAL SPECIFICATIONS FOR ADDITIONAL LUMINAIRE AND ELECTRICAL REQUIREMENTS (LENS, AIR HANDLING CHARACTERISTICS, T-BAR CLIPS, BALLAST, LAMPS, TIME FRAME FOR SUBMITTAL OF SUBSTITUTE LIGHT FIXTURES FOR PRIOR APPROVAL, ETC.). G.3 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. G.4 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 410-19(c). G.5 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)). G.6 REQUEST FOR SUBSTITUTION SHALL FOLLOW SPECIFIED PROCEDURES AND SHALL INCLUDE A WORKING SAMPLE SUITABLE FOR TABLE TOP EXAMINATION. S.1 UNLESS OTHERWISE NOTED, MOUNT EXIT SIGN DIRECTLY ABOVE EGRESS DOOR (MAXIMUM 24" ABOVE DOOR). PROVIDE WALL MOUNT EXIT SIGNS IN HIGH CEILING AREAS. PROVIDE WINDOW MULLION MOUNTING WITH CONCEALED WIRING WHERE REQUIRED. COORDINATE EXACT ELEVATION WITH ARCHITECT PRIOR TO ROUGH-IN.

CONTACTOR SCHEDULE

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

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

ELECTRICAL SYMBOL LEGEND

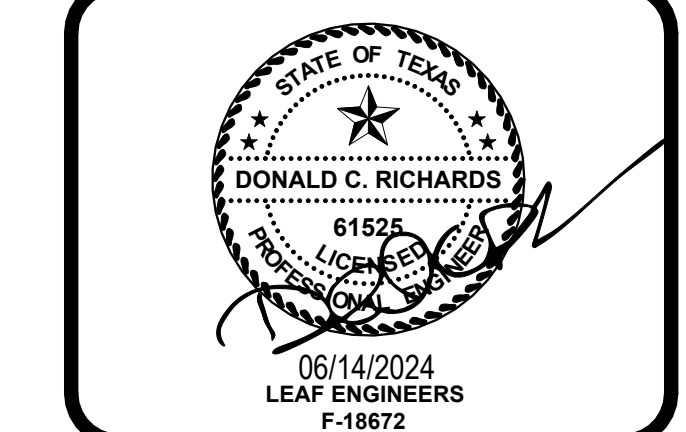
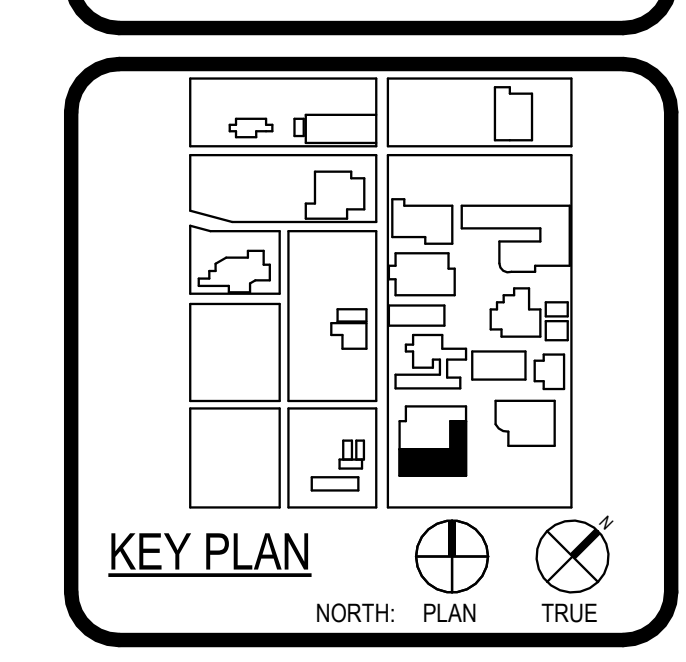
Legend containing symbols and descriptions for CIRCUIT RELATED, LIGHTING, CONTROL, POWER OUTLETS, TELEPHONE/DATA, and EQUIPMENT. Includes entries for lighting fixtures, switches, outlets, and telephones.



Table listing project details: ARCHITECT (PBR Architects, Inc.), ADDRESS (SAN ANTONIO, 601 N.W. Loop 410, Suite 400), DATE (06/14/2024), PROJECT NUMBER (230462).



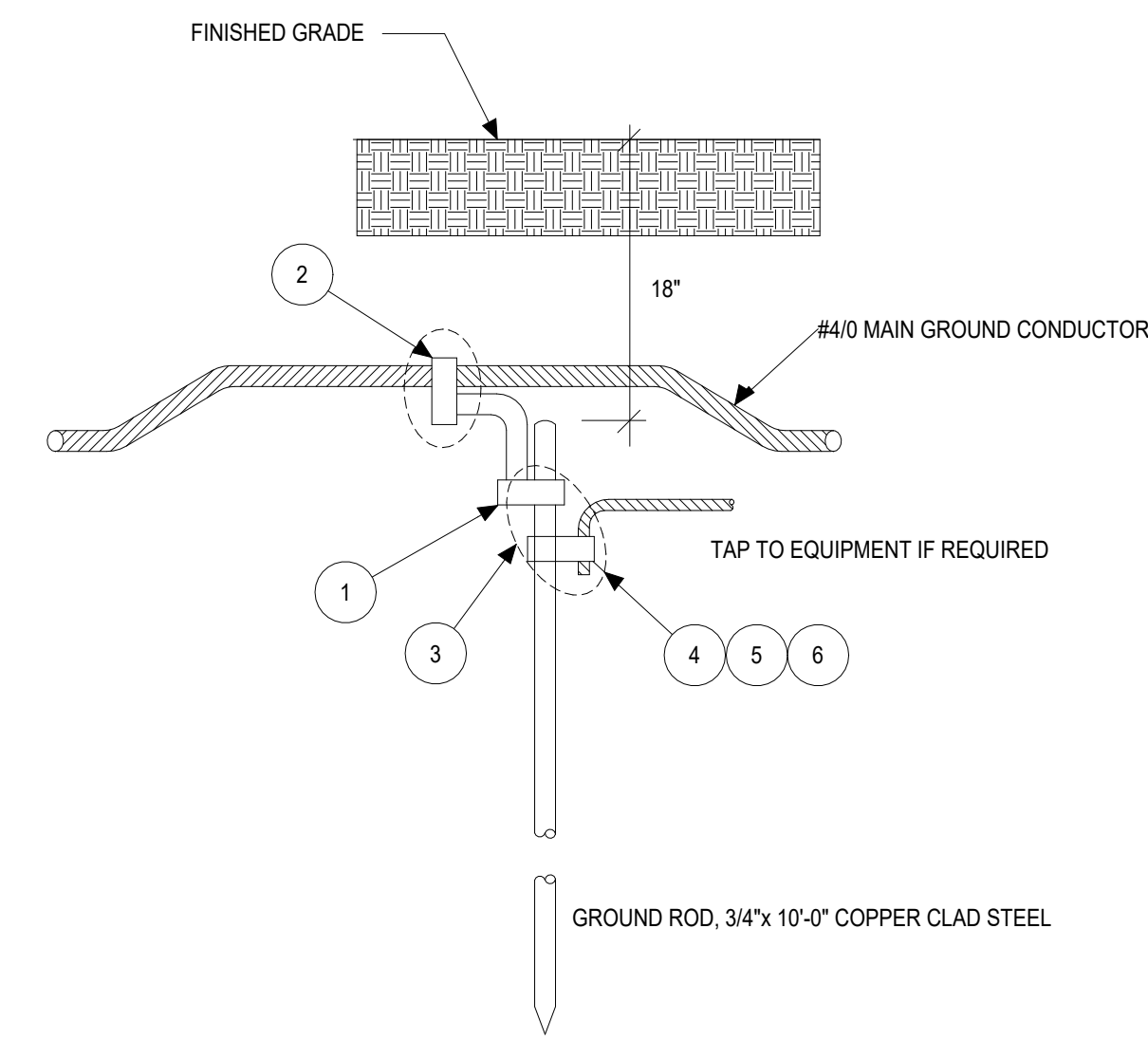
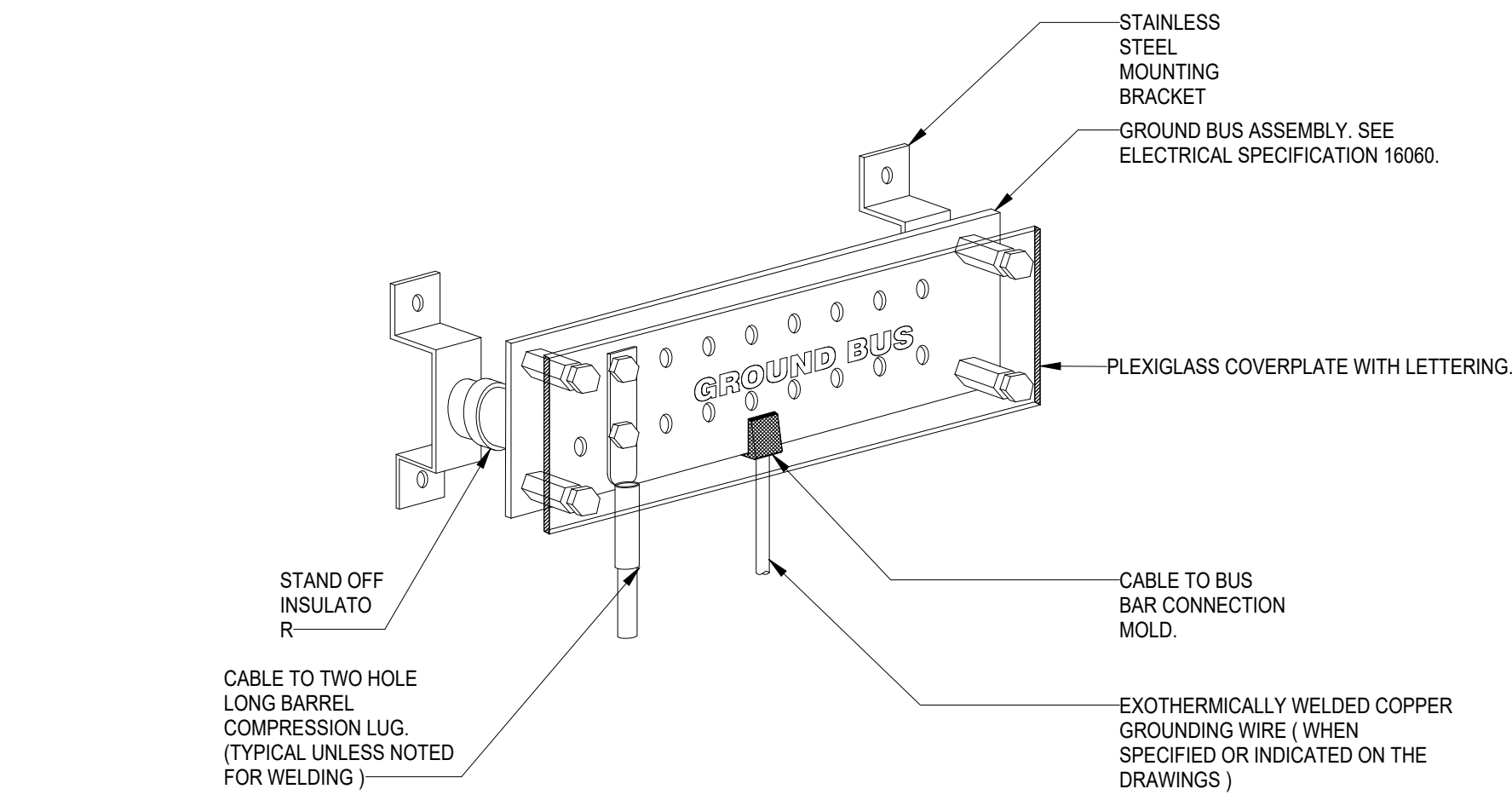
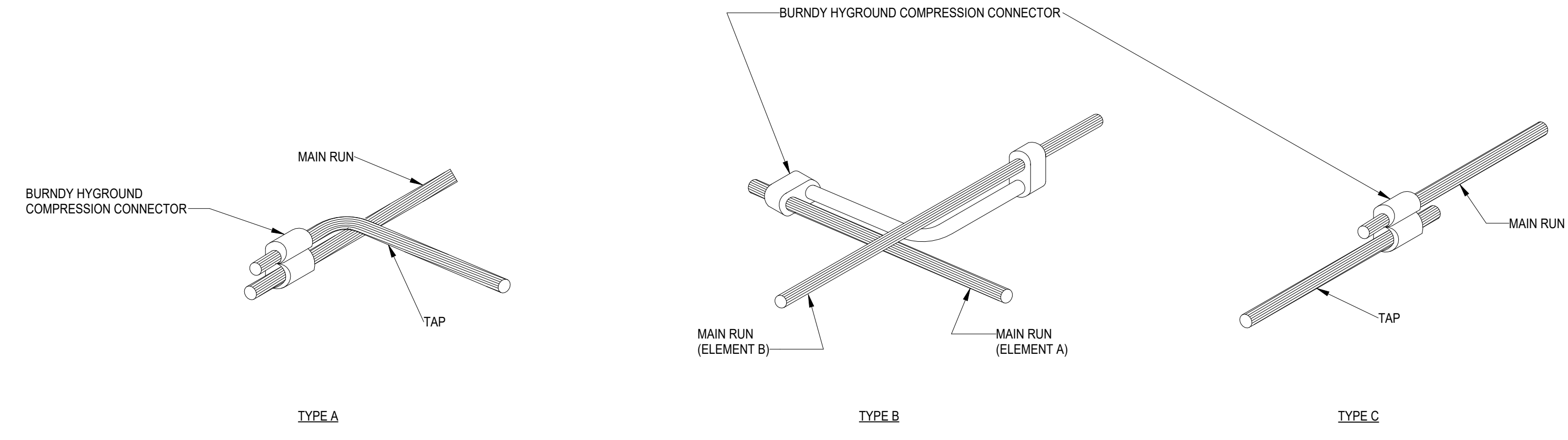
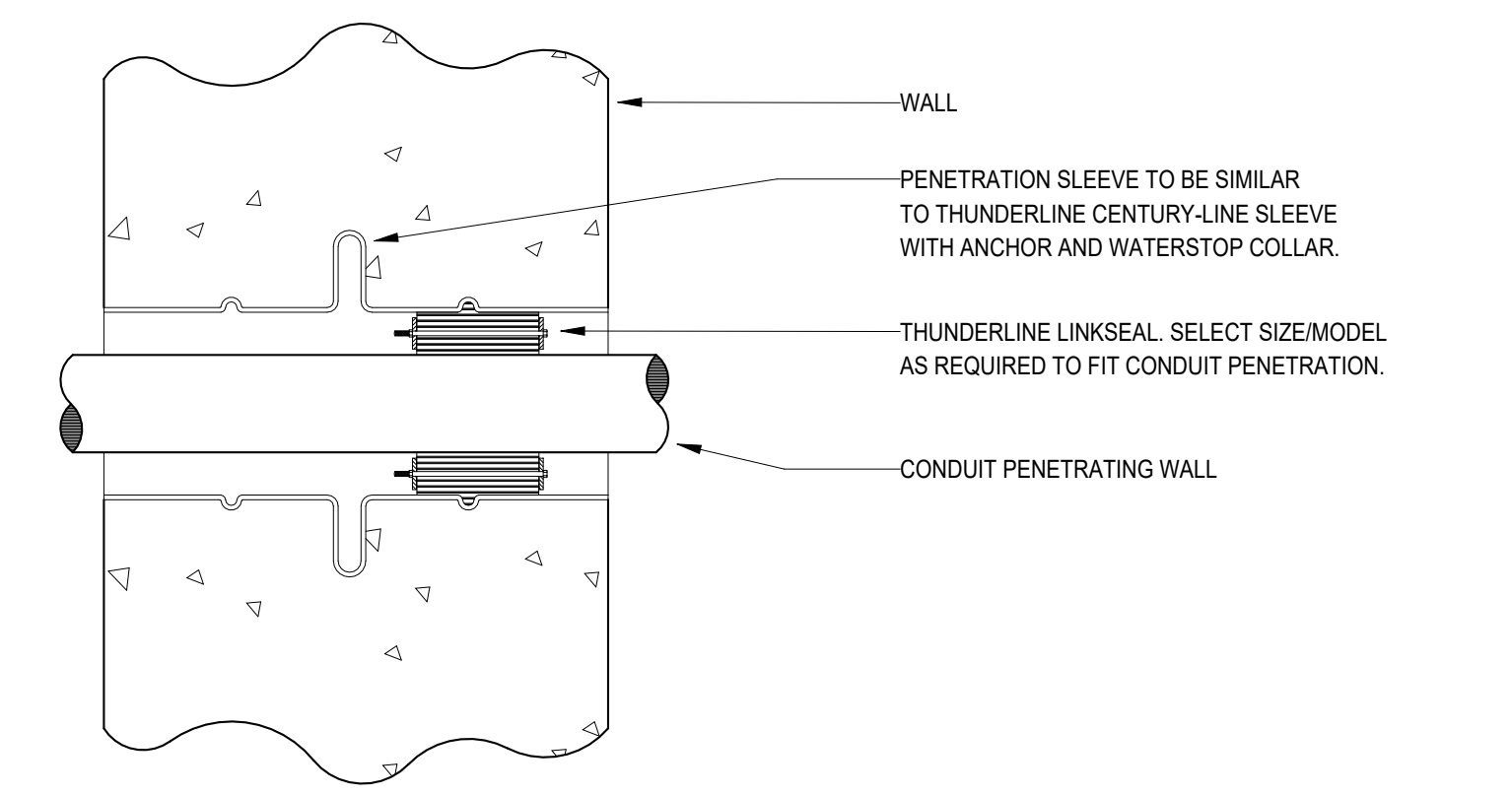
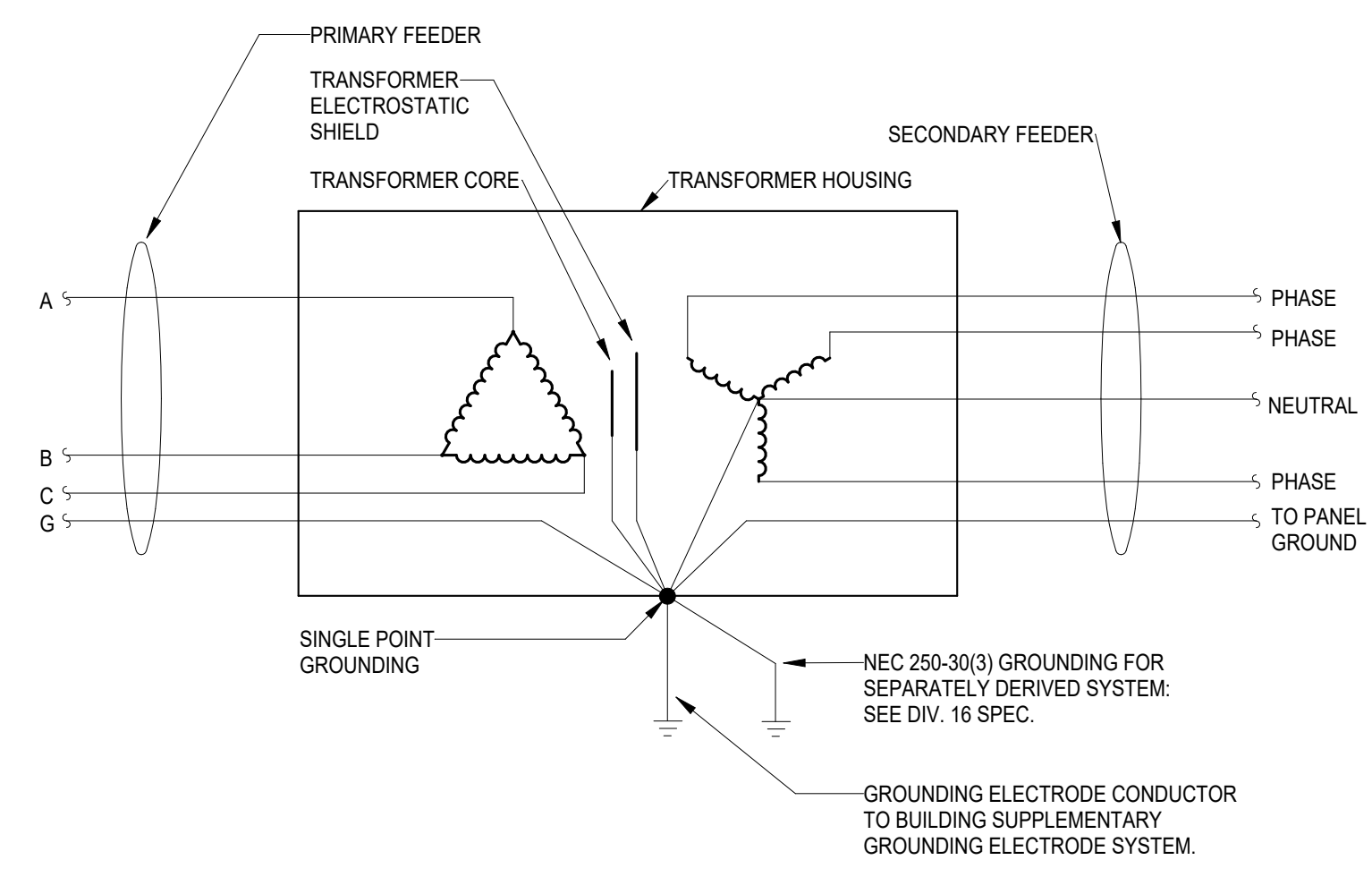
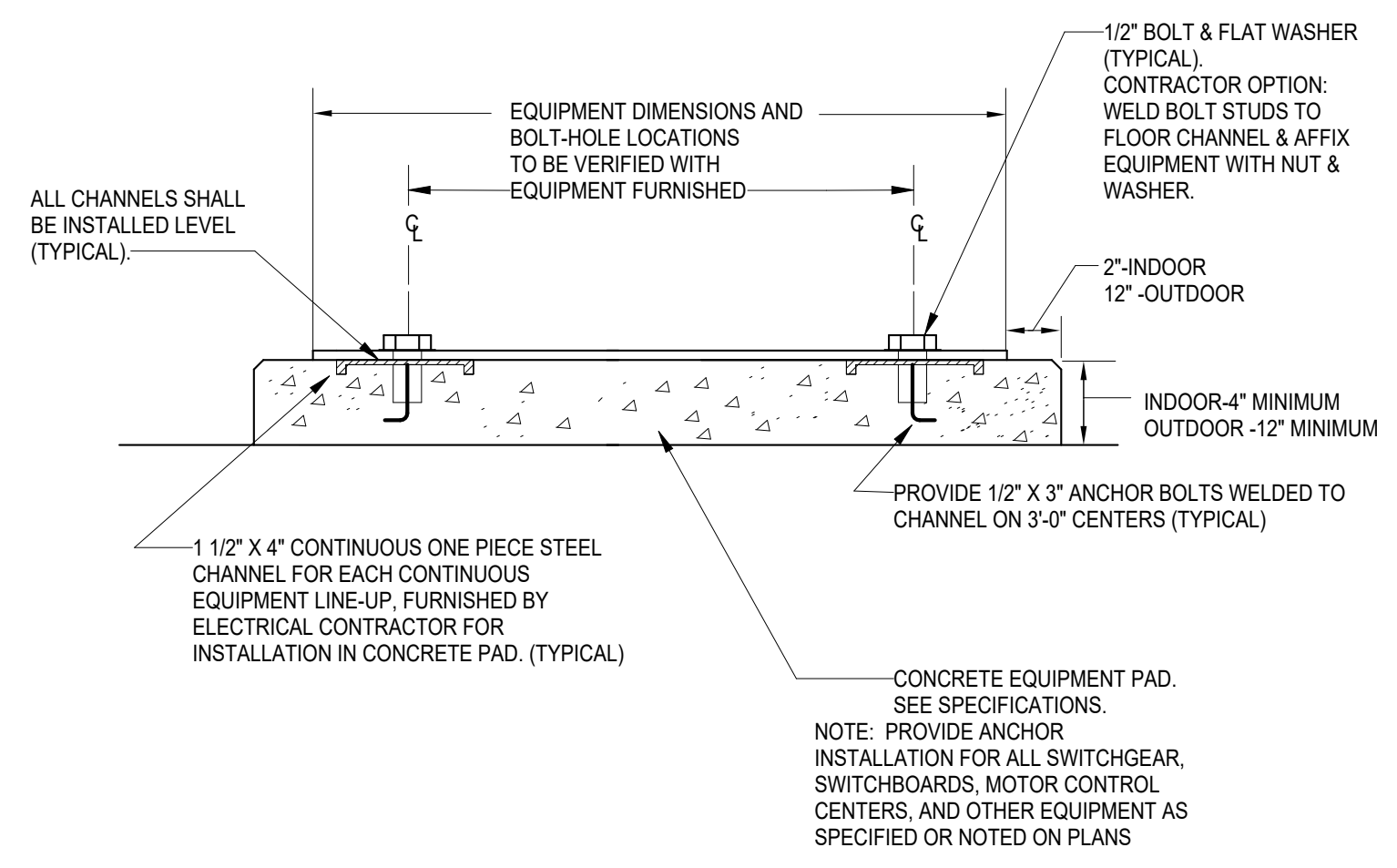
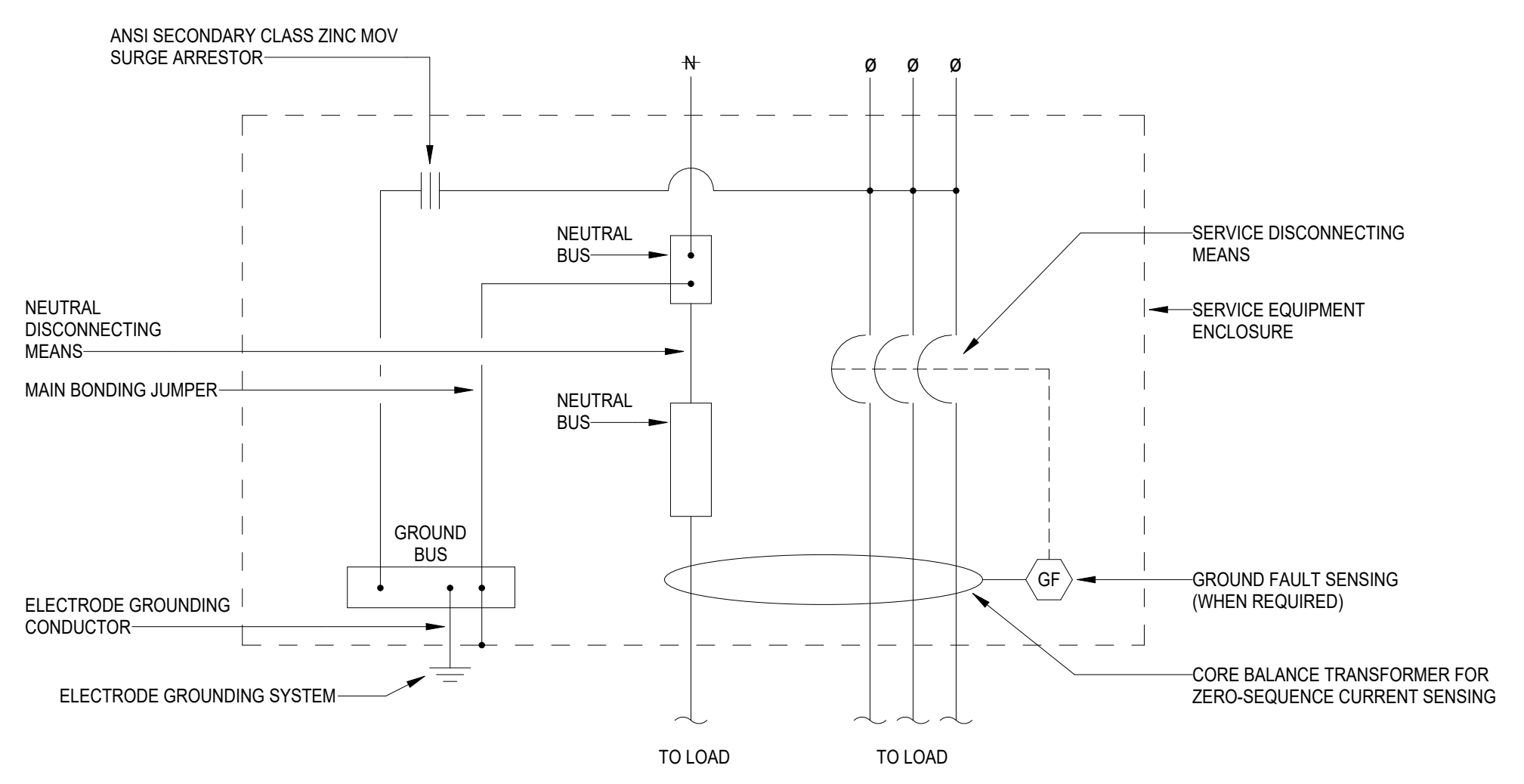
WFAC Black Box Addition PKG 1. 1801 Main Luther King Dr., San Antonio, TX, 78203. ISSUE FOR CONSTRUCTION.



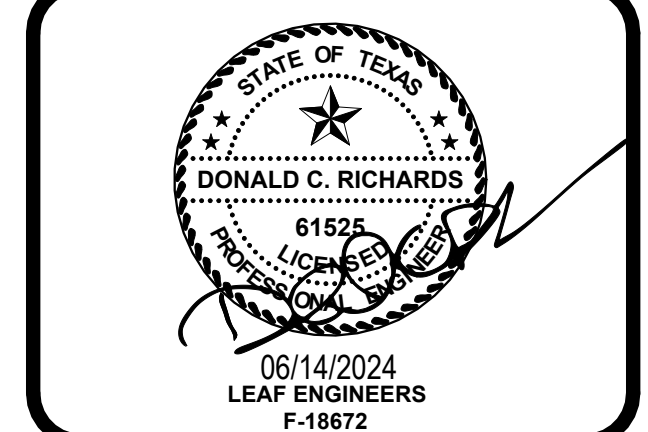
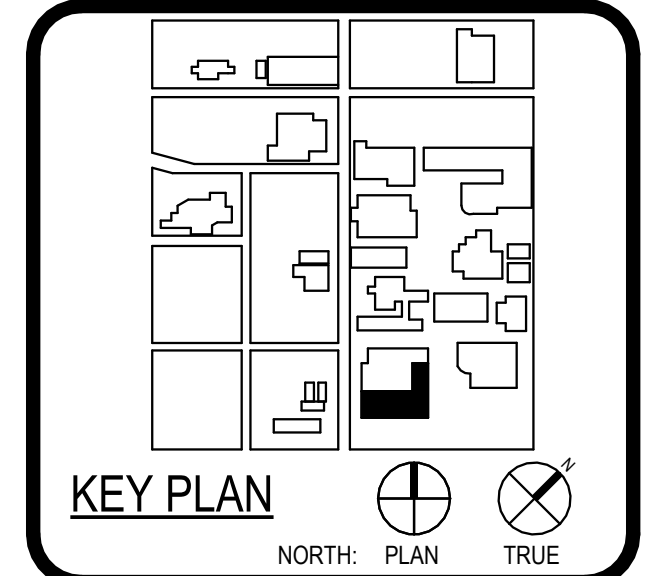
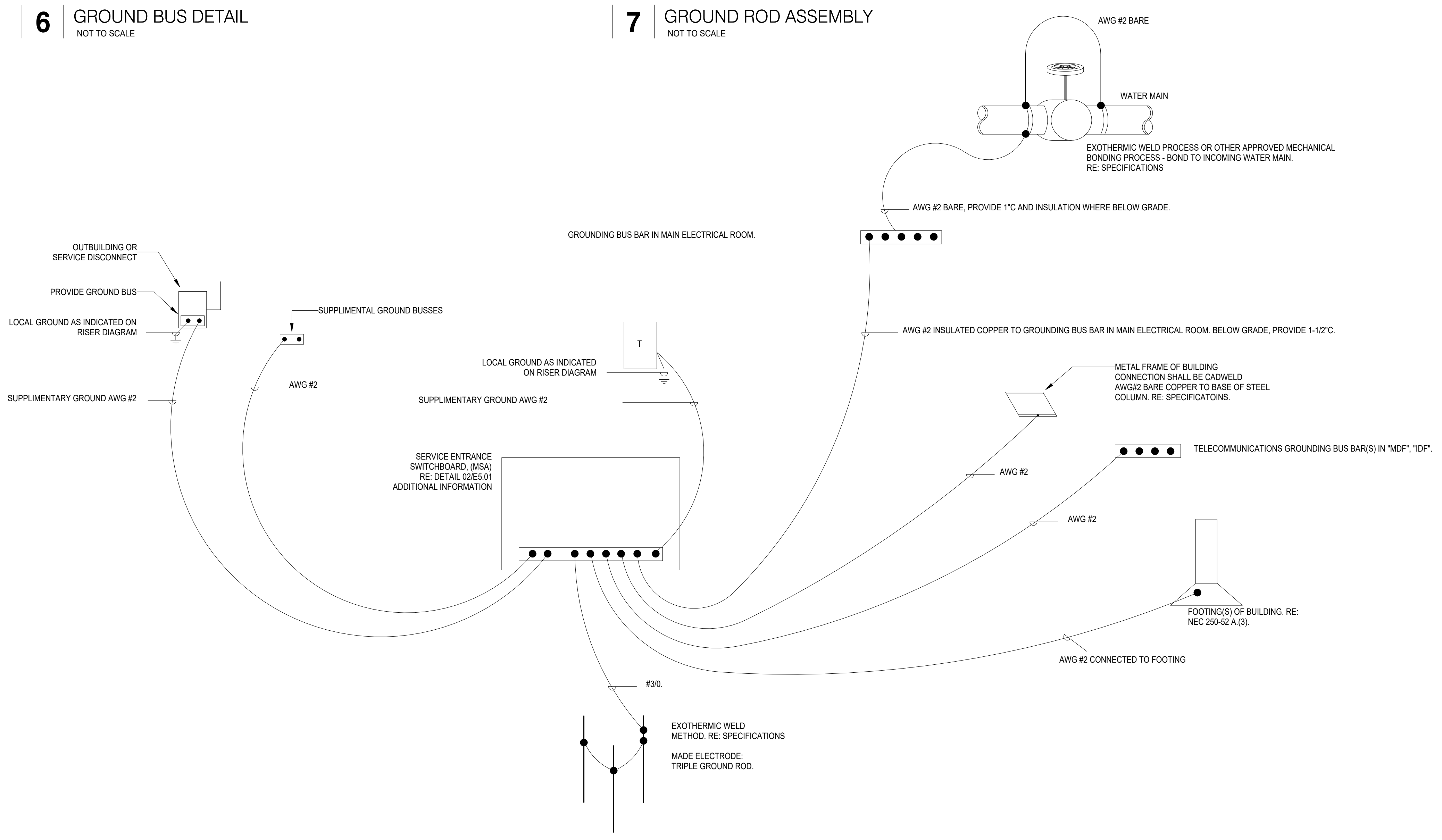
CLIENT: Alamo Colleges, DATE: 06/14/2024, PROJECT NUMBER: 230462. DRAWING HISTORY table with columns No., Description, Date.

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

E-601



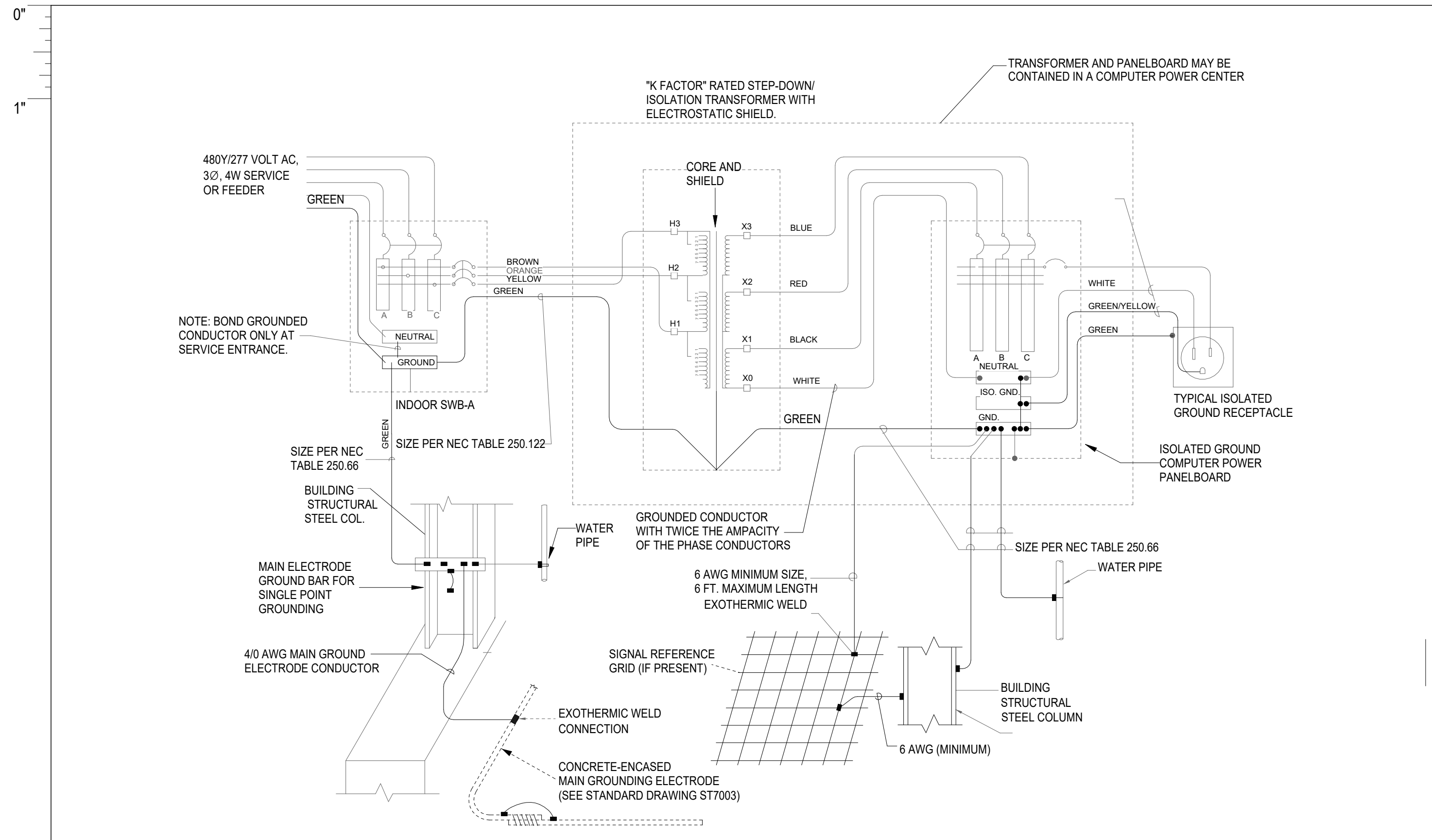
- KEYED NOTES:**
- 1 REQUIRES BURNDY750 PRESS WITH U99 FOR INSTALLATION.
  - 2 CRIMP CONNECTOR, #2 TO 250 KCMIL TO 3/4\"/>



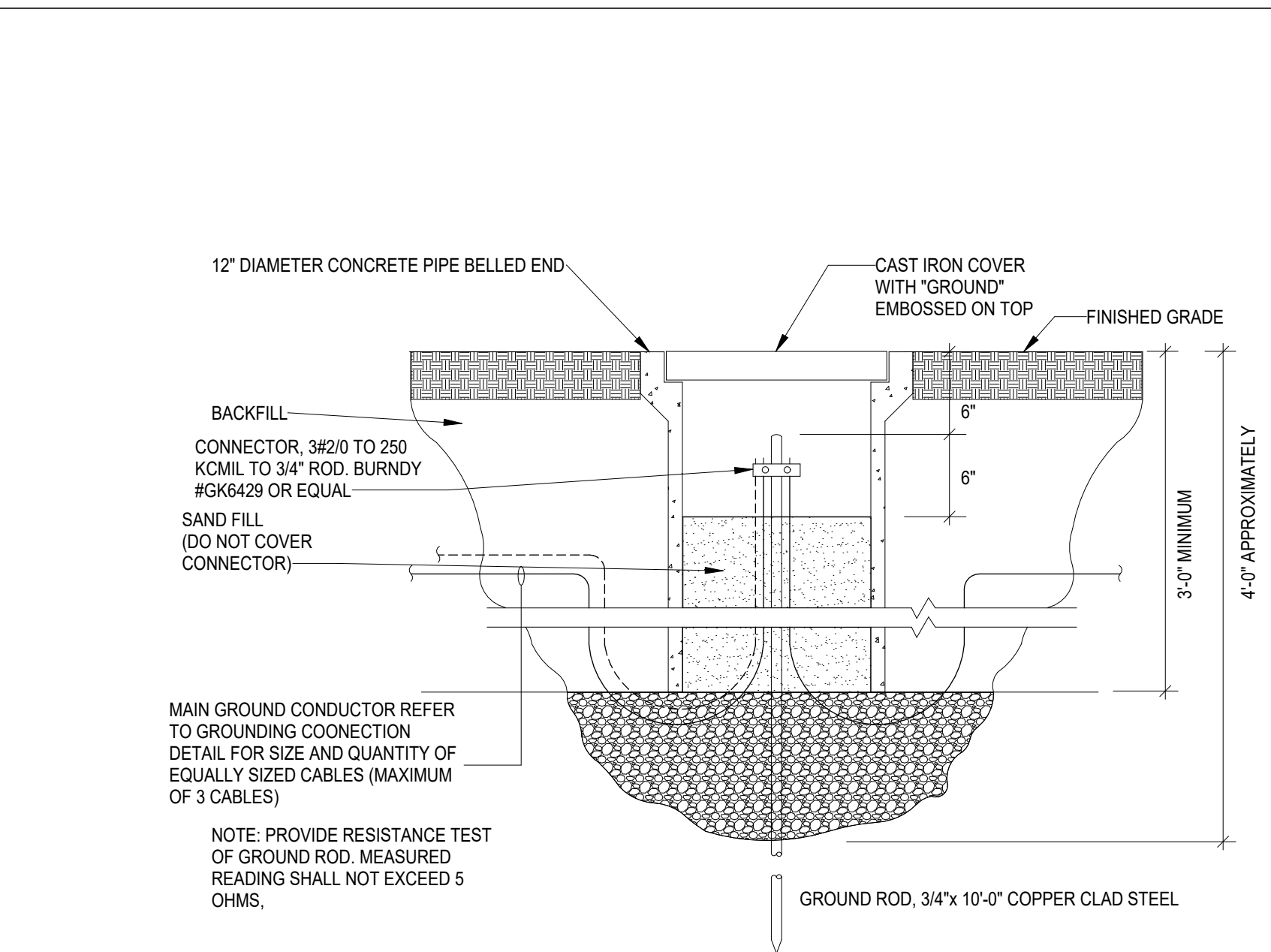
CLIENT		
Alamo Colleges	PROJECT NUMBER	
DATE 06/14/2024	230462	
DRAWING HISTORY		
No.	Description	Date

ISSUE FOR CONSTRUCTION BUILDING NUMBER 1





**2** ISOLATED GROUND DETAIL  
NOT TO SCALE



**3** GROUND WELL ASSEMBLY  
NOT TO SCALE

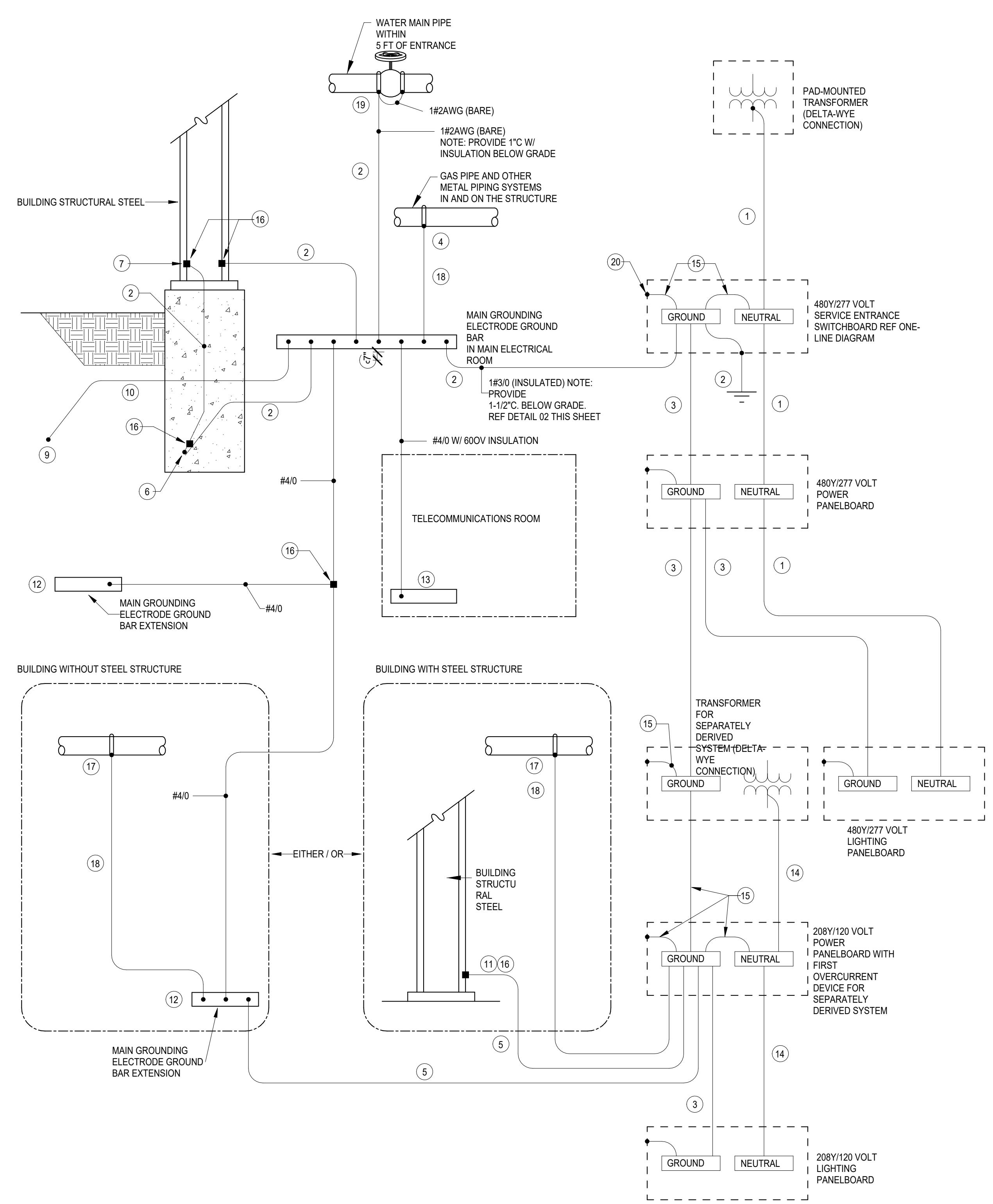
**GENERAL NOTES**

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

**KEYED NOTES**

- INSTALL GROUND (NEUTRAL) CONDUCTOR SAME SIZE AS THE LARGEST PHASE CONDUCTOR IF THE LINE-TO-NEUTRAL LOAD EXCEEDS 5% OF THE CONNECTED LOAD. IF NEUTRAL LOAD IS SMALLER, INSTALL THE NEC MINIMUM GROUNDING CONDUCTOR.
- INSTALL GROUNDING ELECTRODE CONDUCTOR, SIZED BASED ON NEC TABLE 250.66 USING THE SERVICE PHASE CONDUCTOR SIZE, BUT NOT SMALLER THAN 2 AWG UNLESS NOTED OTHERWISE.
- INSTALL EQUIPMENT GROUNDING CONDUCTOR SIZED BASED ON NEC TABLE 250.122 USING THE FEEDER OVERCURRENT DEVICE SIZE.
- BOND TO GAS PIPE ON THE BUILDING SIDE OF THE GAS METER.
- INSTALL GROUNDING ELECTRODE CONDUCTOR THAT IS SIZED BASED ON NEC TABLE 250.66 USING THE SEPARATELY DERIVED SYSTEM PHASE CONDUCTOR SIZE.
- INSTALL A CONCRETE-ENCASED MAIN GROUNDING ELECTRODE IN THE BUILDING FOUNDATION AROUND THE ENTIRE PERIMETER OF THE BUILDING. LOCATE ELECTRODE IN THE BOTTOM ONE-THIRD OF THE FOUNDATION WITH AT LEAST 3 INCHES OF CONCRETE COVER. USE EITHER OF THE FOLLOWING MATERIALS FOR THE ELECTRODE:  
  
BARE COPPER CABLE NOT SMALLER THAN THE GROUNDING ELECTRODE CONDUCTOR REQUIRED BY THE NEC AND NOT SMALLER THAN 2 AWG. REFER SPEC 28 05 26.  
  
BARE OR GALVANIZED REBARS THAT ARE MADE ELECTRICALLY CONTINUOUS USING COPPER JUMPERS NOT SMALLER THAN THE NEC REQUIRED GROUNDING ELECTRODE CONDUCTOR AND NOT SMALLER THAN 4 AWG. USE REINFORCING BARS NOT SMALLER THAN THE FOLLOWING BASED ON THE TOTAL LENGTH OF THE INTERCONNECTED AND PARALLELED REBARS:  

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



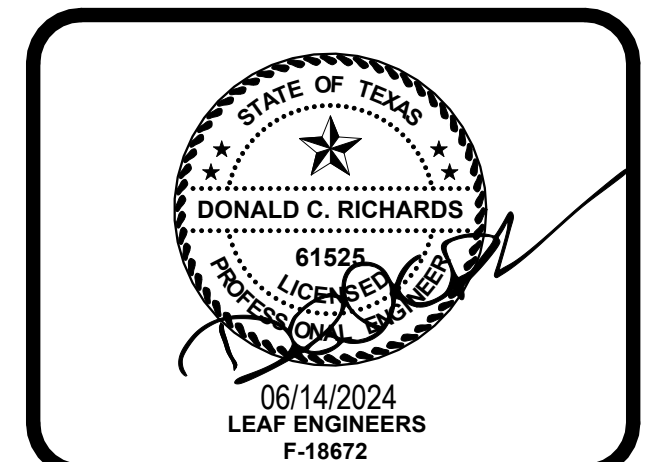
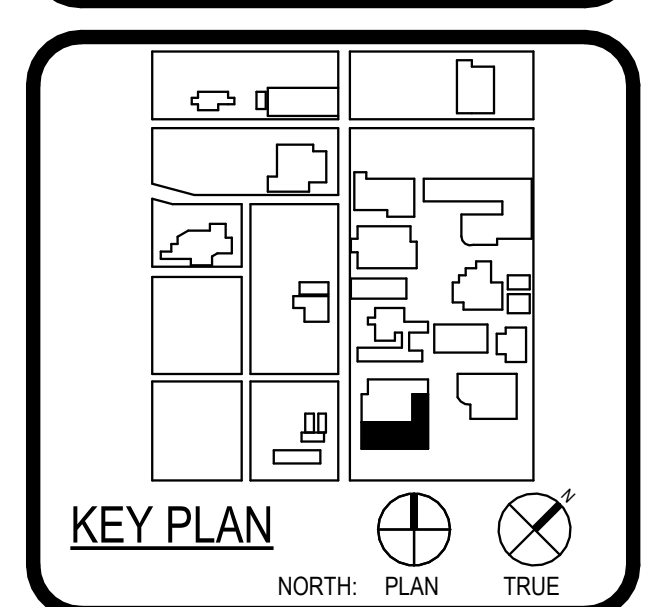
**1** GROUNDING CONNECTION DETAIL  
SCALE: NOT TO SCALE



ARCHITECT: SAN ANTONIO PBK Architects, Inc.  
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San Antonio, TX 78216  
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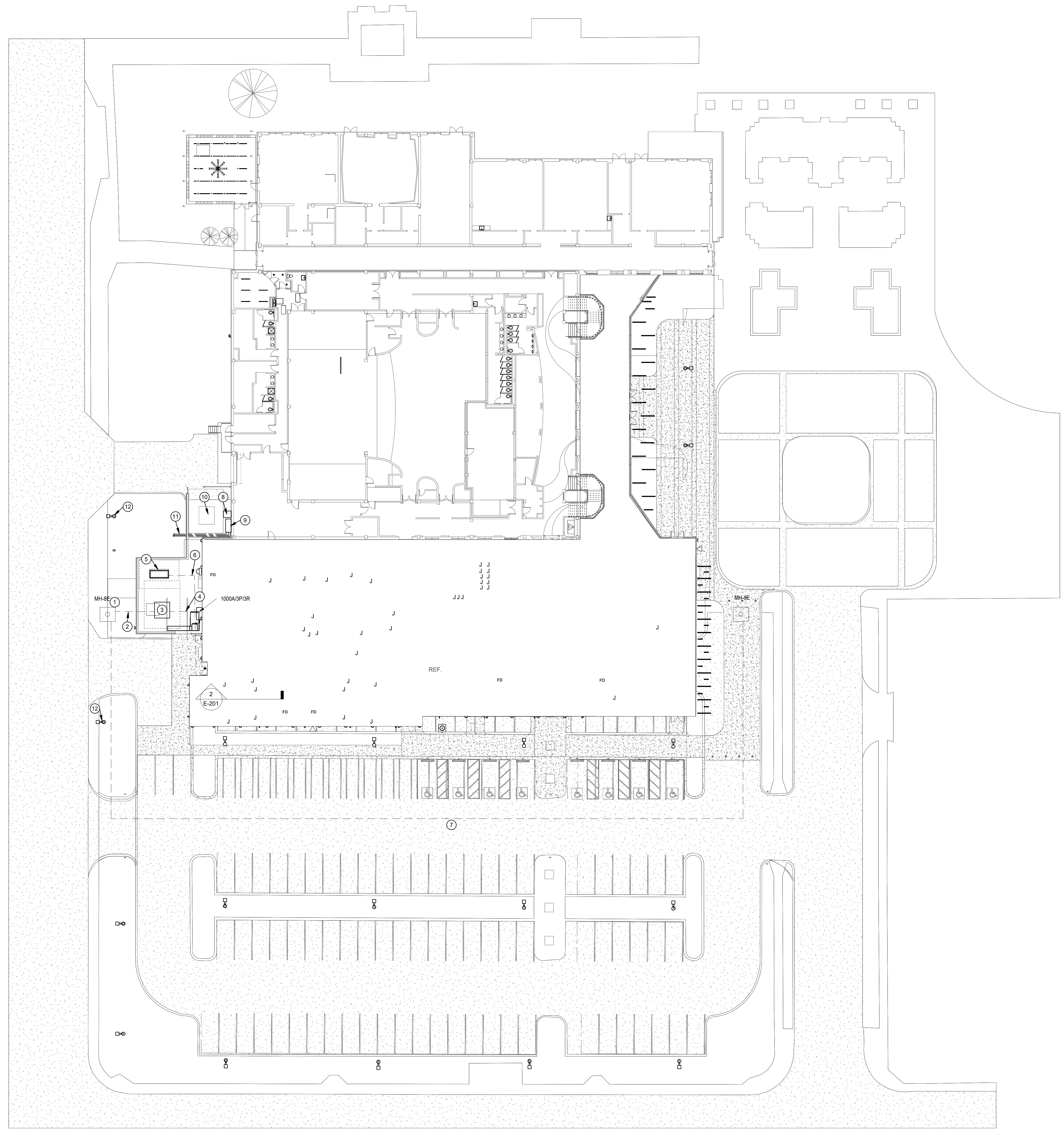


CLIENT		Alamo Colleges
DATE	PROJECT NUMBER	230462
06/14/2024		
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No.	Description	Date

ISSUE FOR CONSTRUCTION  
BUILDING NUMBER 1

ELECTRICAL DETAILS

# ISSUE FOR CONSTRUCTION



**SITE PLAN GENERAL NOTES:**

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

**SITE PLAN KEYED NOTES:**

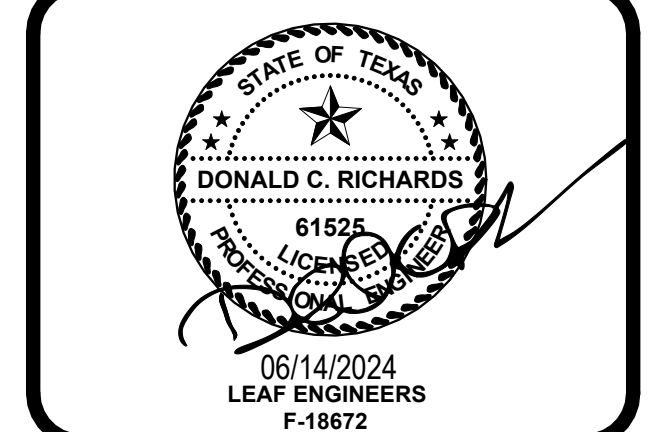
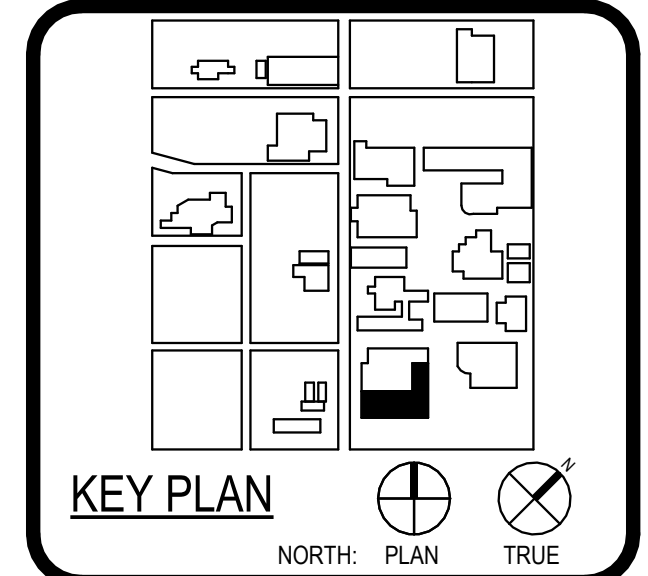
- 1 EXISTING ELECTRICAL MANHOLE.
- 2 NEW UNDERGROUND EASEMENT FOR NEW PRIMARY POWER FOR UTILITY TRANSFORMER. FIELD VERIFY THAT SPARE CAPACITY IS AVAILABLE.
- 3 NEW 480/277V 750KVA TRANSFORMER SHALL BE PROVIDED FROM ALAMO COLLEGES. CONTRACTOR SHALL COORDINATE EXACT LOCATION WITH ARCHITECTURAL PLANS PROVIDE (1) 1 1/2" CONDUIT FOR POWER.
- 4 NEW UNDERGROUND ROUTE FOR SECONDARY TO MAIN SERVICE DISCONNECT. PROVIDE (2) 3" CONDUITS FOR POWER.
- 5 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 DUCKSANK WITH 4 EXISTING CONDUITS. CONTRACTOR SHALL VERIFY EXACT PATHWAY OF EXISTING CONDUITS AND FEEDERS SIZES WITHIN EXISTING MANHOLES. CONTRACTOR SHALL COORDINATE NEW PATHWAY WITH ST. PHILLIPS UTILITY FACILITIES TO ENSURE PATHWAY CAN BE Routed.
- 8 RELOCATED CONDENSING UNIT AND ASSOCIATED DISCONNECT. COORDINATE WITH MECHANICAL FOR EXACT LOCATION.
- 9 EXISTING DISTRIBUTION MAIN SERVICE DISCONNECT DP-6 FOR ADJACENT WATSON FINE ARTS BUILDING.
- 10 EXISTING UTILITY TRANSFORMER FOR WATSON FINE ARTS.
- 11 PROPOSED NEW PATHWAY FOR RELOCATED EXISTING CONDUITS FROM DP-6. CONTRACTOR SHALL VERIFY WHERE CONDUITS ARE FED TO.
- 12 NEW LOCATION OF PEDESTRIAN POLES. COORDINATE EXACT LOCATION WITH ARCHITECTURAL DRAWINGS. UTILIZE EXISTING CIRCUIT IF AVAILABLE. IF CIRCUIT ISNT OBTAINABLE CONTRACTOR SHALL UTILIZE NEAREST AVAILABLE SPARE IN PANEL WITH IDENTICAL VOL TAGS.



ARCHITECT	PBK Architects, Inc. SAN ANTONIO 601 N.W. Loop 410, Suite 400 San Antonio, TX 78216 210-829-0123 P 210-829-0578 F TX Firm BR 1608
ASSOCIATE ARCHITECT	B&A ARCHITECTS 1100 N. LOOP WEST SUITE 1000 DALLAS, TEXAS 75201 214-750-1000
LANDSCAPE ARCHITECT	LANDSCAPE ARCHITECTS 1111 W. 14TH STREET SUITE 1000 DALLAS, TEXAS 75202 214-750-1000
MECHANICAL ENGINEER	LINBY & FRANK ENGINEERING 1111 W. 14TH STREET SUITE 1000 DALLAS, TEXAS 75202 214-750-1000
ELECTRICAL ENGINEER	MEYER PROFESSIONALS 1111 W. 14TH STREET SUITE 1000 DALLAS, TEXAS 75202 214-750-1000



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



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

SITE POWER PLAN

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

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... B. THE PLUMBING WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE APPLICABLE CODES AS WELL AS ALL LOCAL REGULATIONS THAT MAY APPLY... C. ALL PLUMBING WORK SHALL BE COORDINATED WITH ALL OTHER TRADES BEFORE PROCEEDING WITH THE INSTALLATION...

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... 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... B. EVENLY AND CONTINUOUSLY BACKFILL REMAINING TRENCH DEPTH IN UNIFORM LAYERS WITH BACKFILL MATERIAL...

PLUMBING SYMBOLS LEGEND

Table with columns: DRAWINGS, DETAILS, ABV., DESCRIPTION. Includes symbols for AV, AW, CA, CW, D, DSP, E, F, G, GW, HW, HWR, OD, SD, SP, SS, V, RD/ORD, FD, FS, T & P RELIEF VALVE, STRAINER, CO, FCO, WCO, CAP, FLEXIBLE CONNECTION, NEW CONNECTION TO EXISTING PIPING.

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

PLUMBING ABBREVIATION SCHEDULE

Table with columns: (A), (D), (E), (N), (R), AAV, AFF, AP, BFF, BFP, BOB, BOP, BTUH, C/C, CFH, CFS, CI, CLG, CO, CONN, CONT, DF, DPV, DWG, EA, EDF, FCO, FD, FDV, FF, FHC, FL, FS, FT, FU, GC, GPH, GPM, HB, HP, IE. Lists abbreviations and their full names.

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

PLUMBING PIPE MATERIAL SCHEDULE

Table with columns: PIPING SYSTEM, BELOW GRADE, ABOVE GRADE. Lists materials for Storm Water, Sanitary Waste, Domestic Water, Natural Gas, Fire Protection, Compressed Air.

WATER HAMMER ARRESTER SCHEDULE

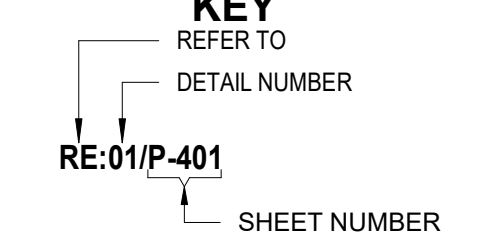
Table with columns: PIPE SIZE, CROSS FIXTURE UNITS, PDI STD. Lists sizes 1/2", 3/4", 1", 1-1/4", 1-1/2", 2" and corresponding standards.

NOTES: 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...

SLOPE OF HORIZONTAL DRAINAGE PIPE

Table with columns: PIPE SIZE, MINIMUM SLOPE. Lists sizes 2-1/2" OR LESS, 3" TO 6", 8" OR LARGER and corresponding slopes 1/4" PER FOOT, 1/8" PER FOOT, 1/16" PER FOOT.

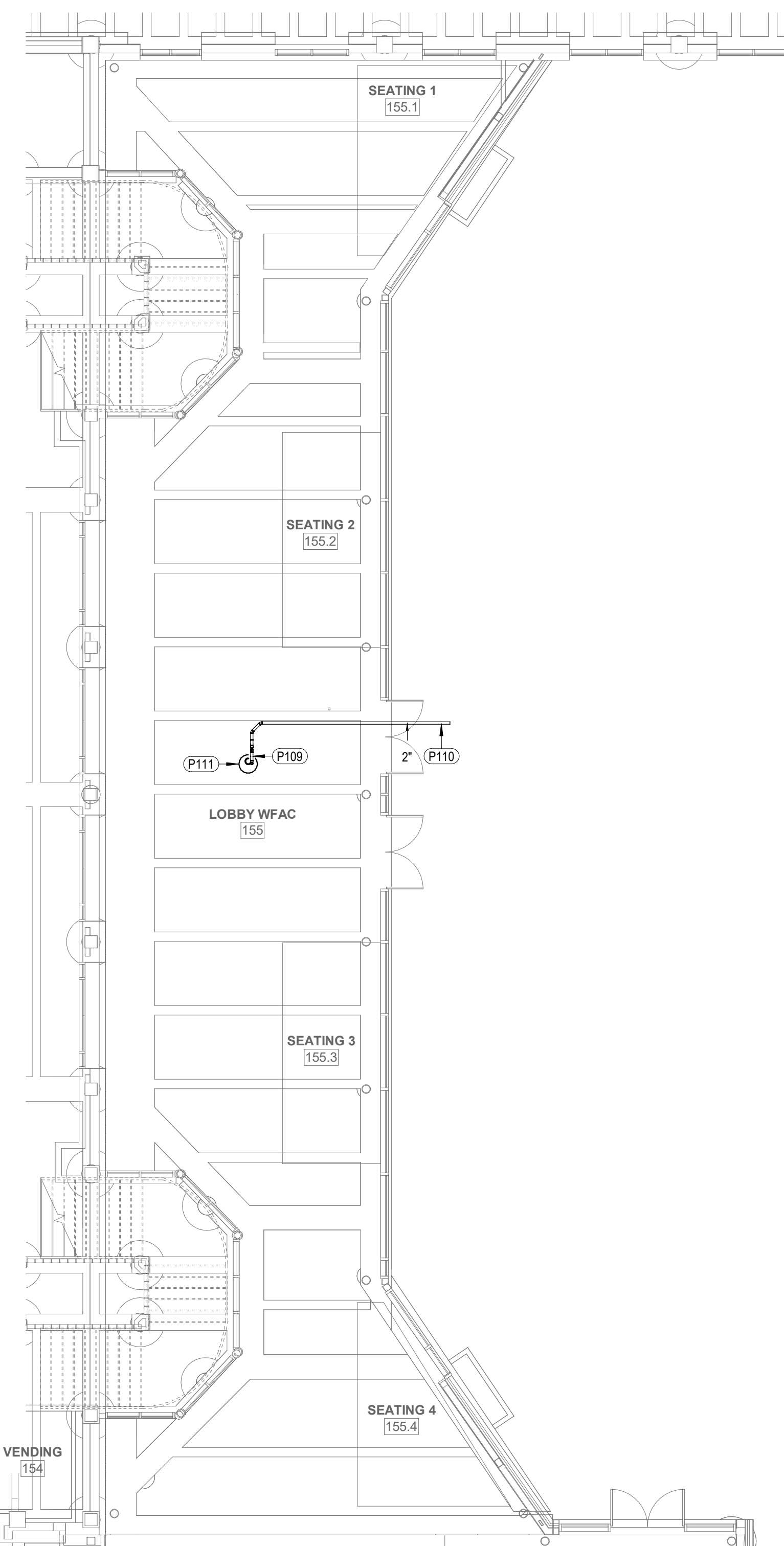
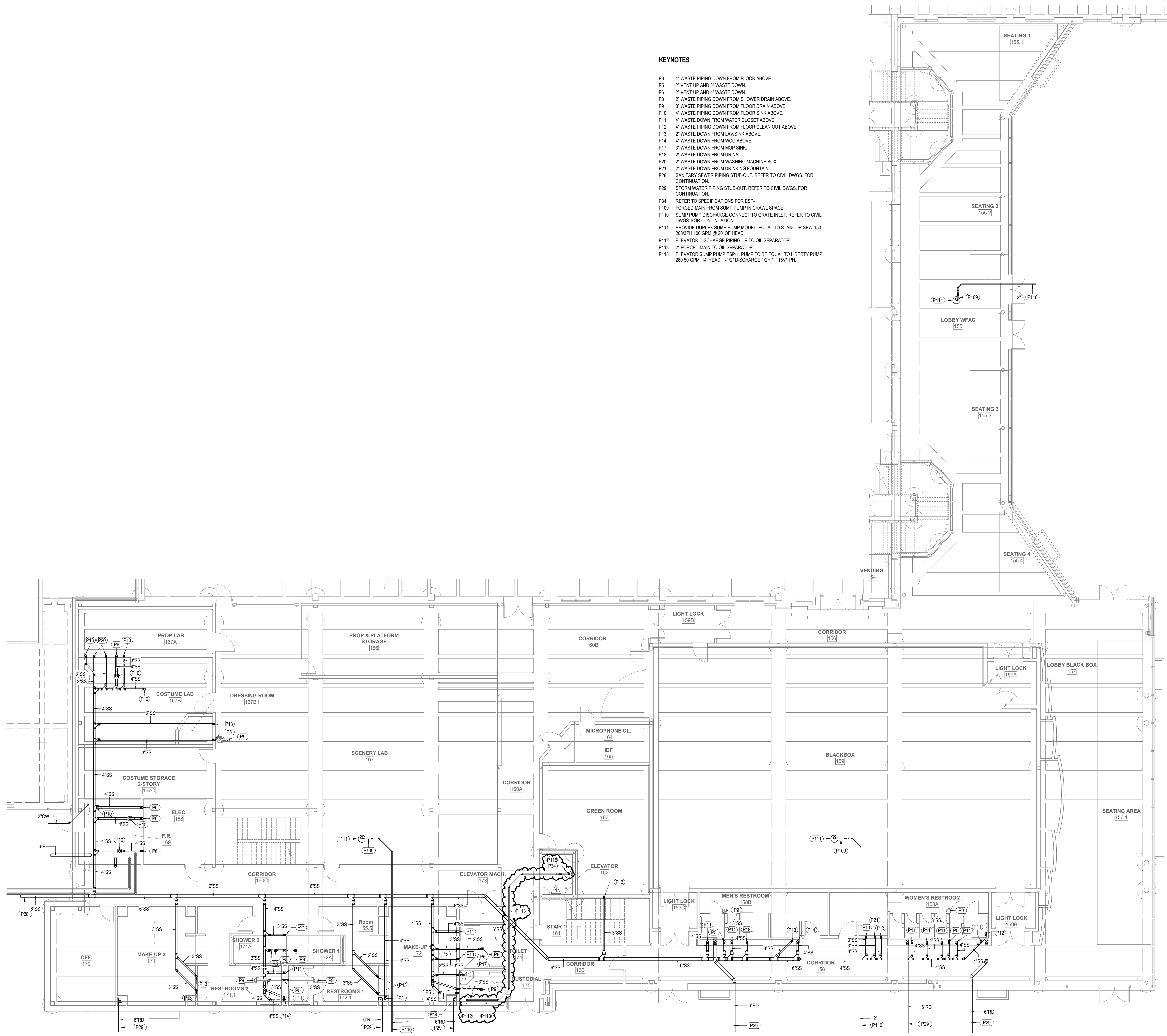
DRAWING REFERENCE KEY



ISSUE FOR CONSTRUCTION

**KEYNOTES**

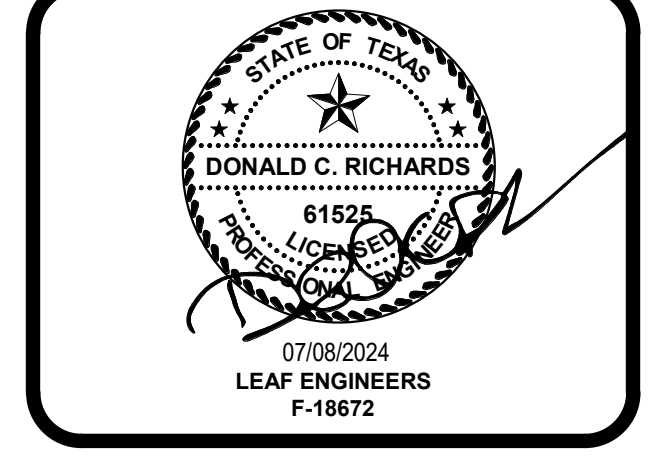
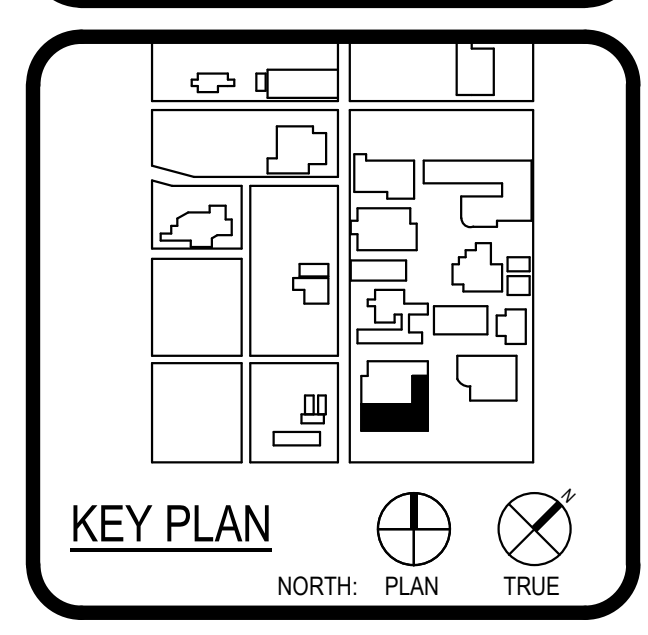
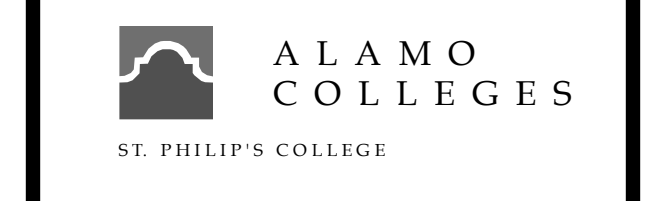
- P3 4" WASTE PIPING DOWN FROM FLOOR ABOVE.
- P5 2" VENT UP AND 3" WASTE DOWN.
- P6 2" VENT UP AND 4" WASTE DOWN.
- P8 2" WASTE PIPING DOWN FROM SHOWER DRAIN ABOVE.
- P9 3" WASTE PIPING DOWN FROM FLOOR DRAIN ABOVE.
- P10 4" WASTE PIPING DOWN FROM FLOOR SINK ABOVE.
- P11 4" WASTE DOWN FROM WATER CLOSET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



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 601 N. W. Loop 410, Suite 400  
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 TX Firm BR 1650  
 ASSOCIATE ARCHITECT  
 DONALD C. RICHARDS  
 6152  
 07/08/2024  
 LEAF ENGINEERS  
 F-18672



WFAC Black Box Addition PKG 1



No.	Description	Date
1	CITY COMMENTS	06/05/2024
2	CITY COMMENTS	06/12/2024
3	CITY COMMENTS	06/24/2024
4	CITY COMMENTS	07/08/2024

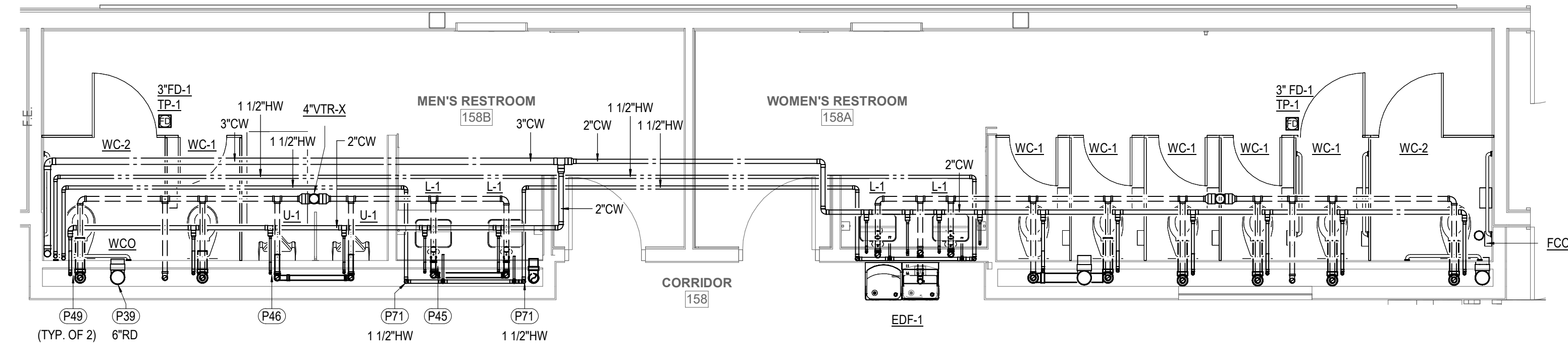
90%CD - IFR  
 BUILDING NUMBER 1

**CRAWLSPACE PLUMBING PLAN**

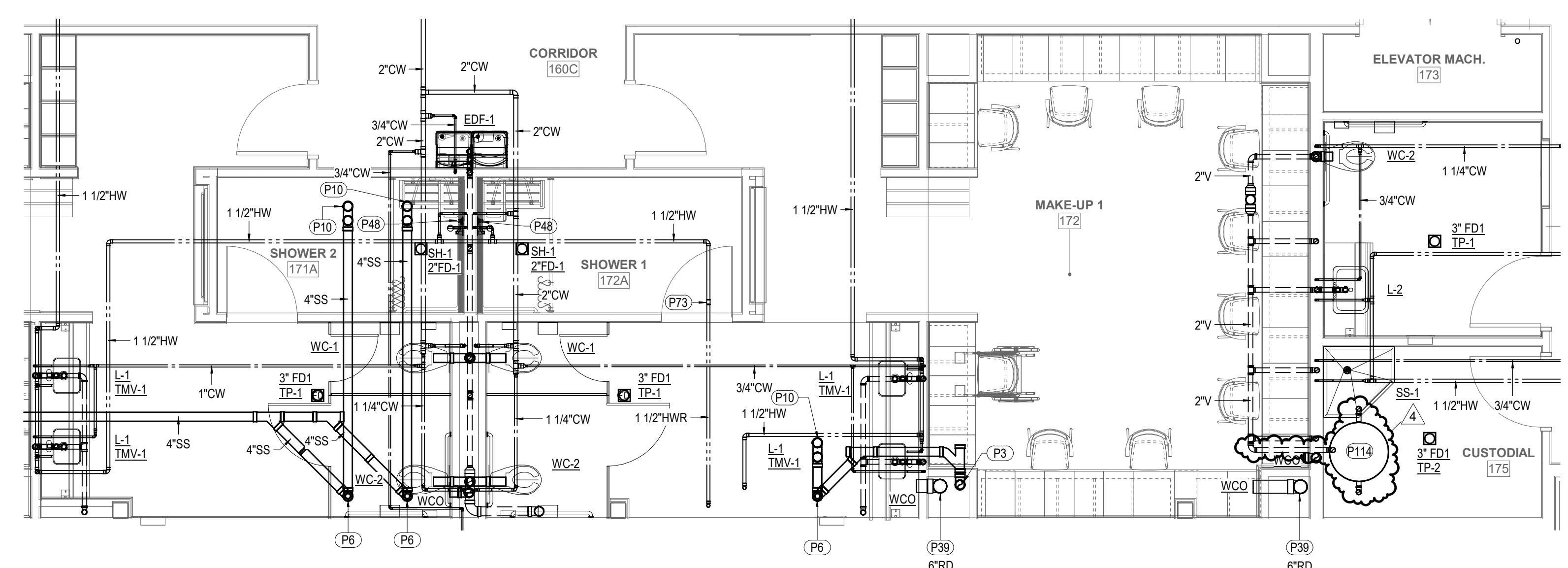
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CHECKED BY:  
 Checker  
 DRAWN BY:  
 Author  
 Plot Stamp:  
 7/8/2024 7:29:33 AM



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



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

**KEYNOTES**

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

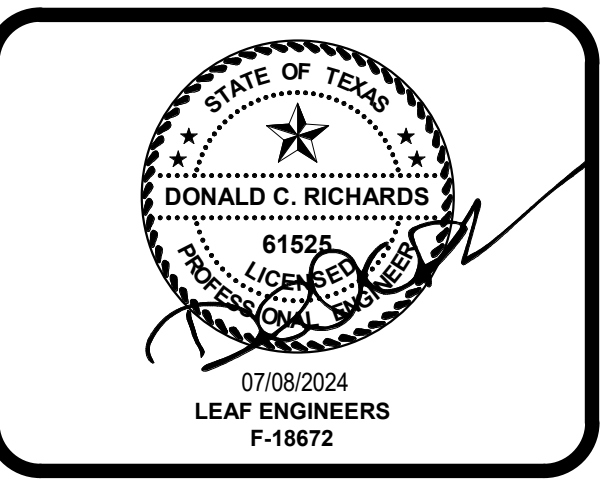
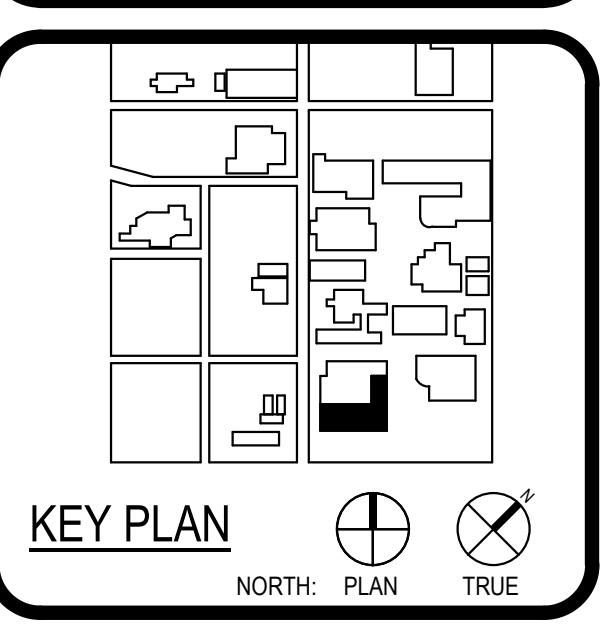


ARCHITECT	PBK Architects, Inc. SAN ANTONIO 601 N. W. Loop 410, Suite 400 San Antonio, TX 78216 210-829-0123 P TX Firm SR 1659
ASSOCIATE ARCHITECT	KEVIN ARCHITECTS 1710 S. W. Loop 410, Suite 400 San Antonio, TX 78216
DESIGNER	LEAF ENGINEERS 1801 Main, Luber King Dr. San Antonio, TX 78203
MECHANICAL ENGINEER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



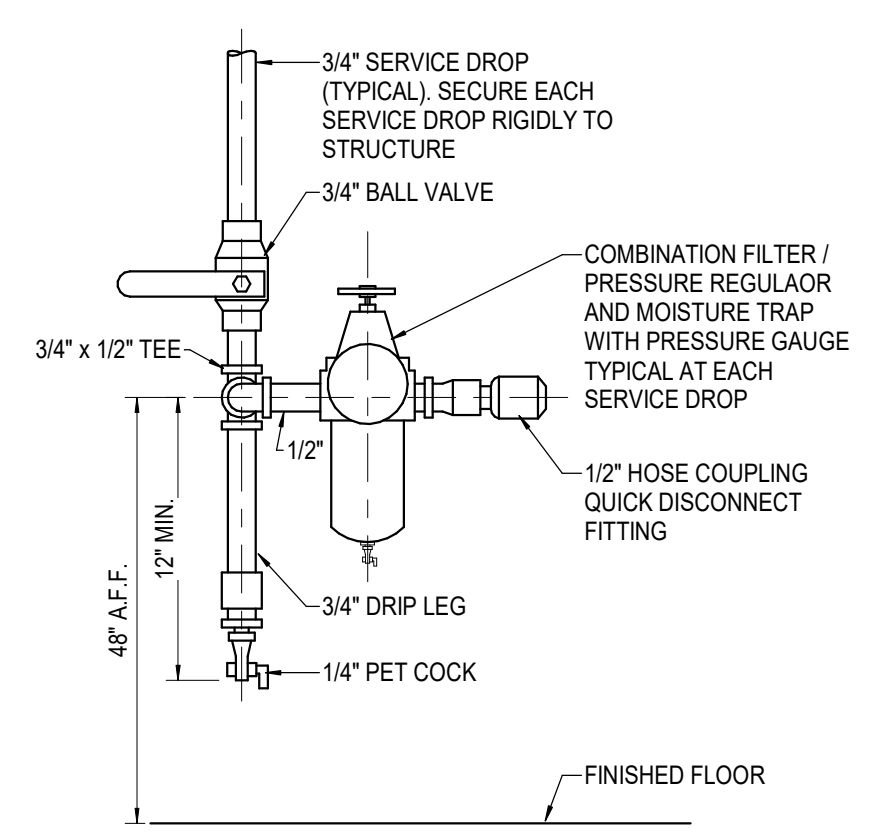
WFAC Black Box Addition PKG 1

1801 Main, Luber King Dr.,  
San Antonio, TX 78203  
90%CD - IFR

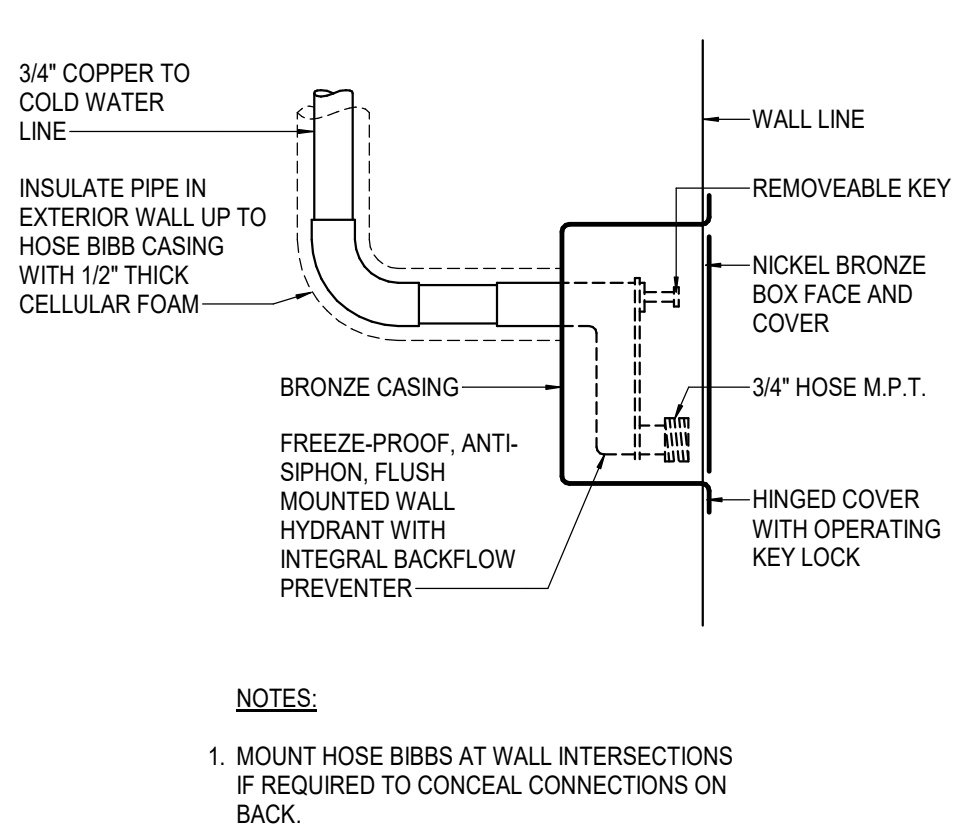


CLIENT		Alamo Colleges
DATE	07/08/2024	PROJECT NUMBER
DRAWING HISTORY		230462
No.	Description	Date
1	CITY COMMENTS	07/08/2024
90%CD - IFR		
BUILDING NUMBER	1	

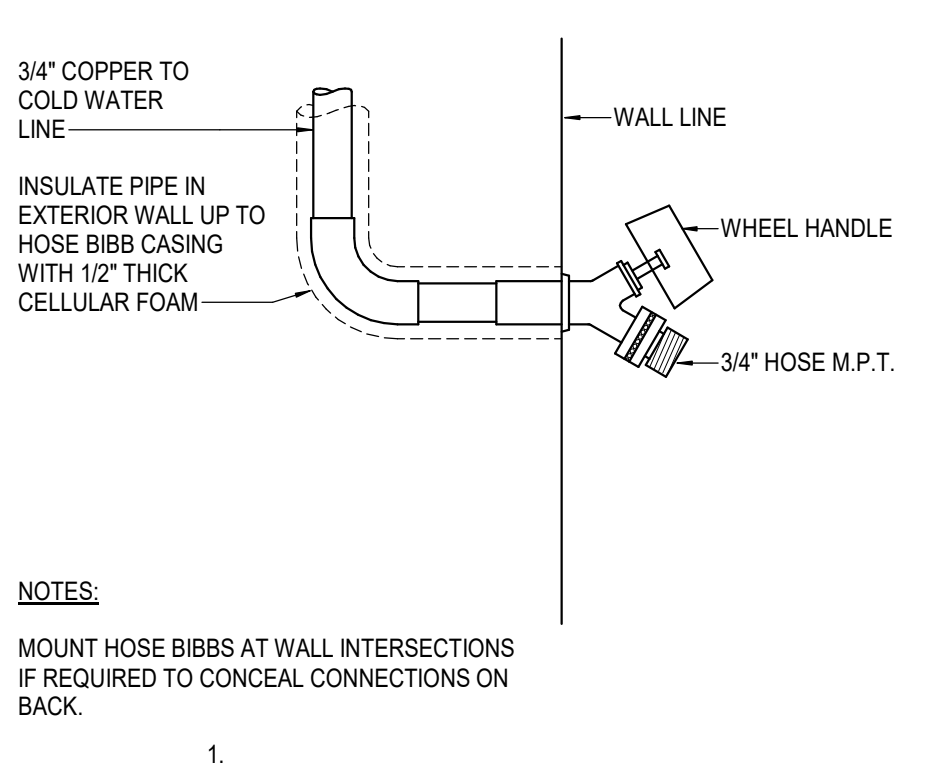
**PLUMBING ENLARGED PLAN**



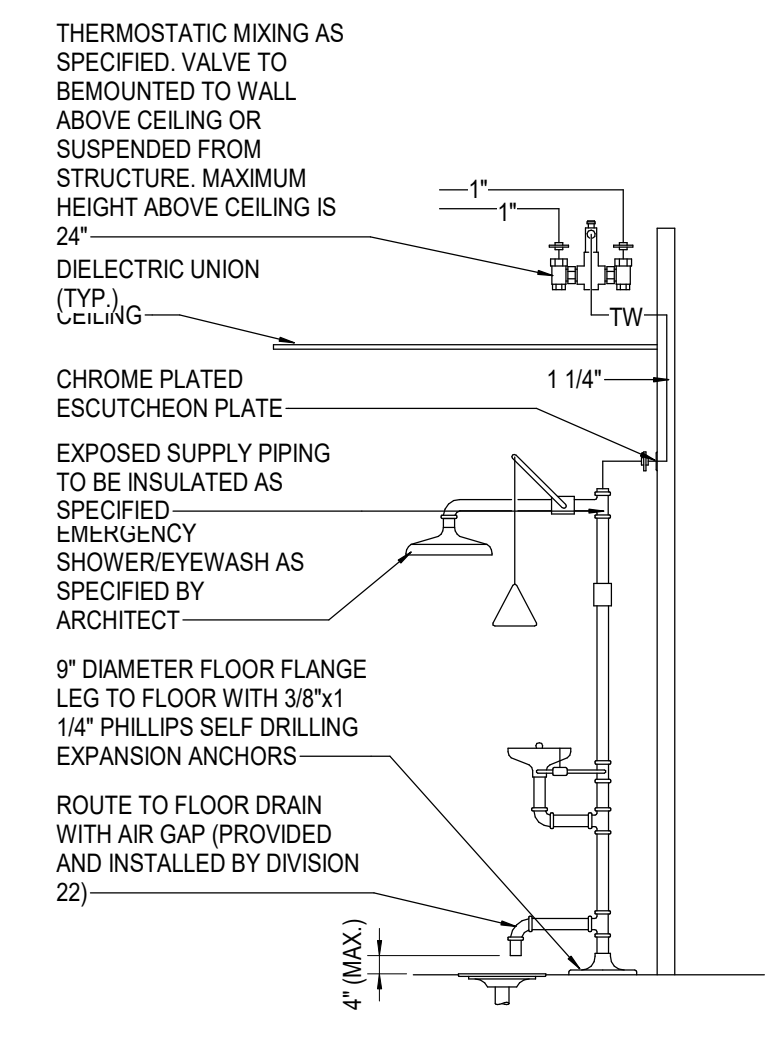
**10 COMPRESSED AIR OUTLET DETAIL**  
SCALE: NOT TO SCALE



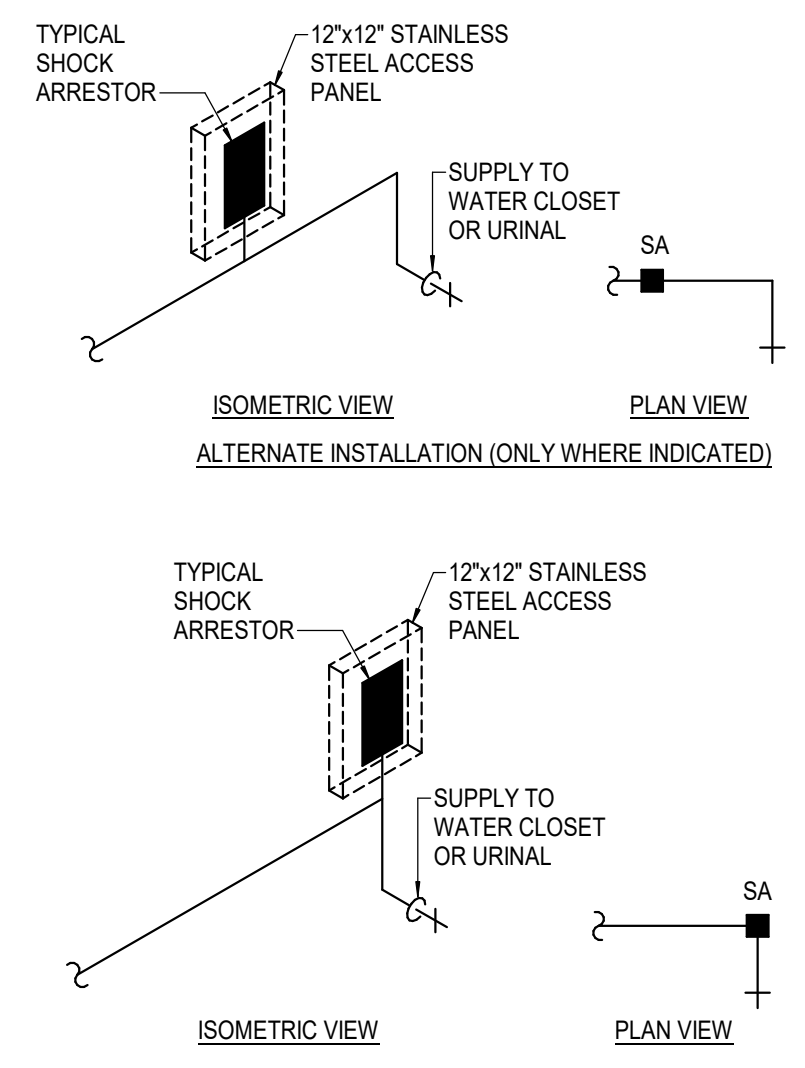
**11 WALL HYDRANT DETAIL**  
SCALE: NOT TO SCALE



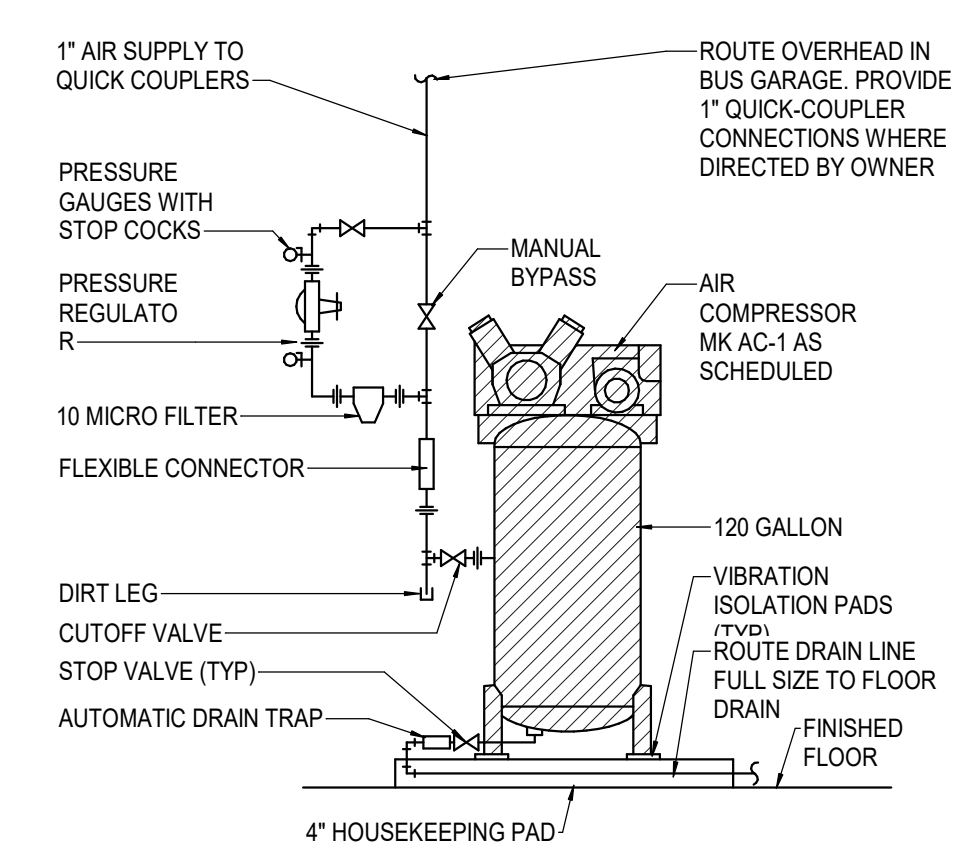
**12 WALL HYDRANT DETAIL**  
SCALE: NOT TO SCALE



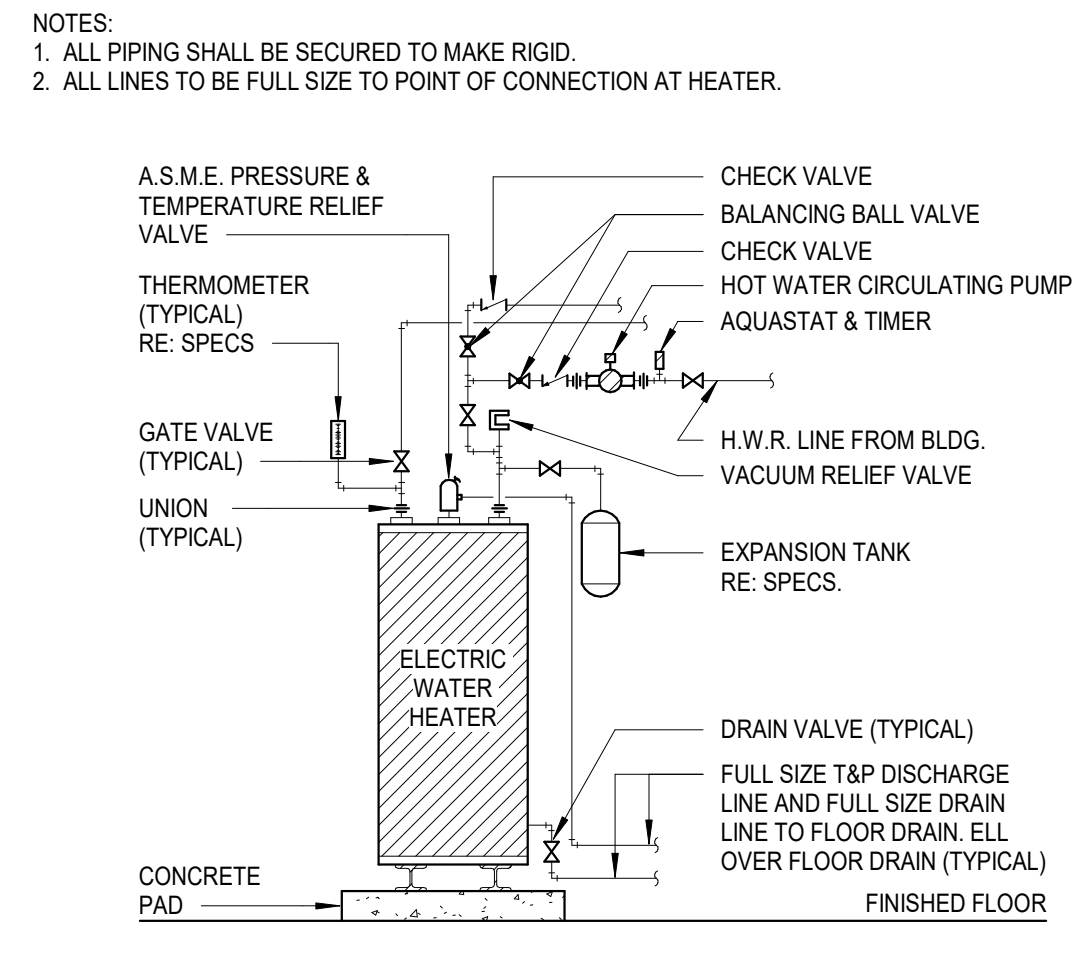
**7 EMERGENCY SHOWER/EYEWASH DETAIL**  
SCALE: NOT TO SCALE



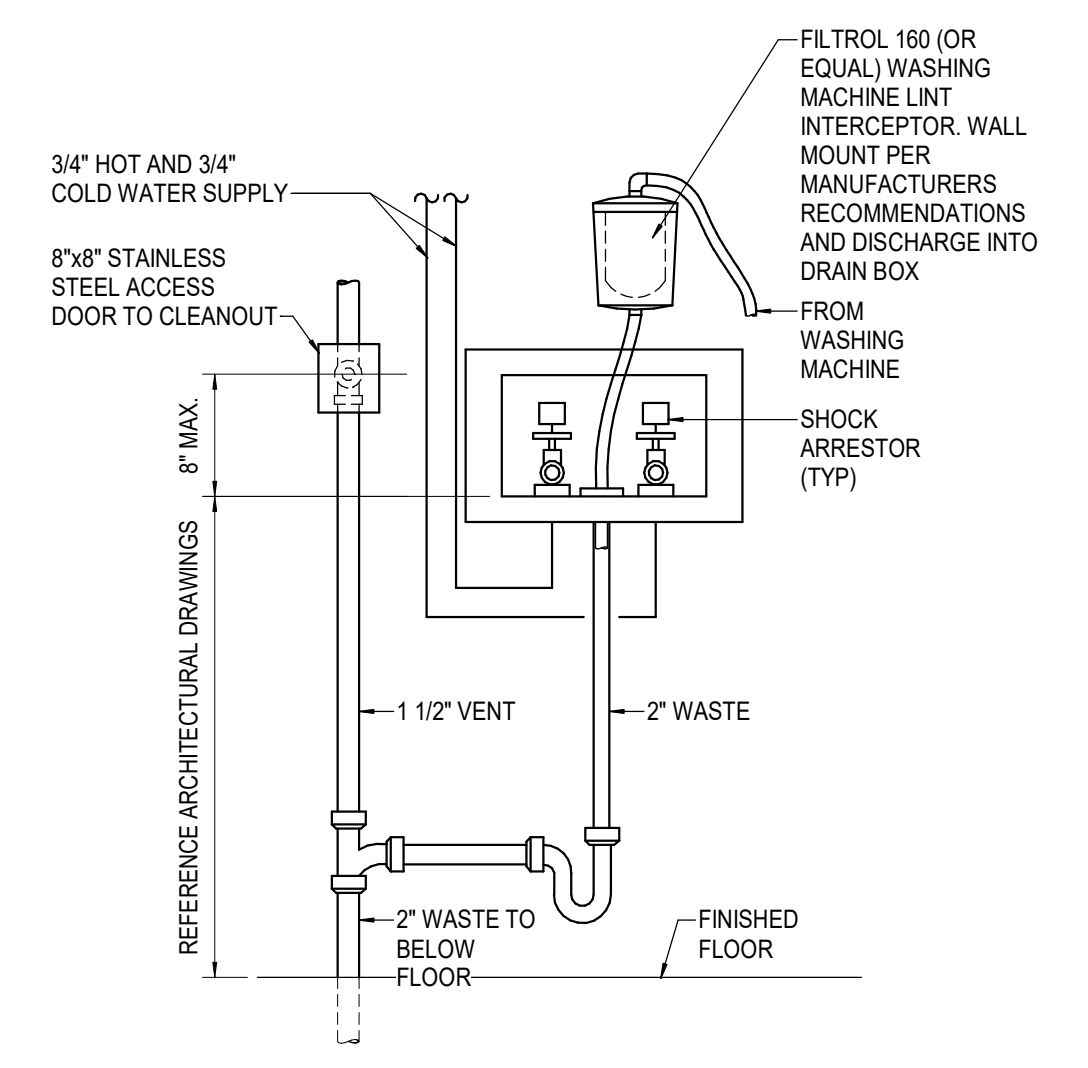
**8 SHOCK ARRESTOR DETAIL**  
SCALE: NOT TO SCALE



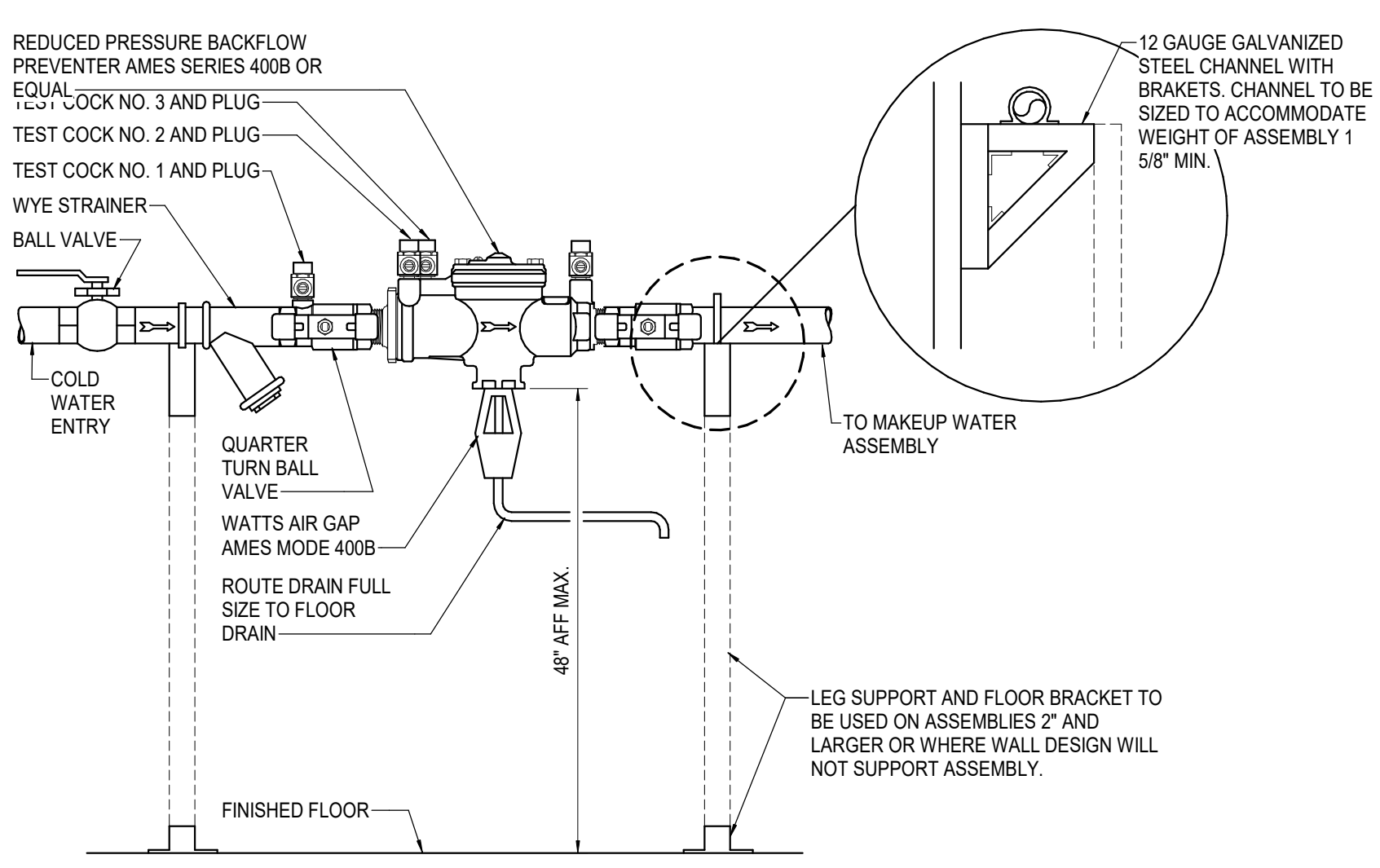
**9 AIR COMPRESSOR PIPING DETAIL**  
SCALE: NOT TO SCALE



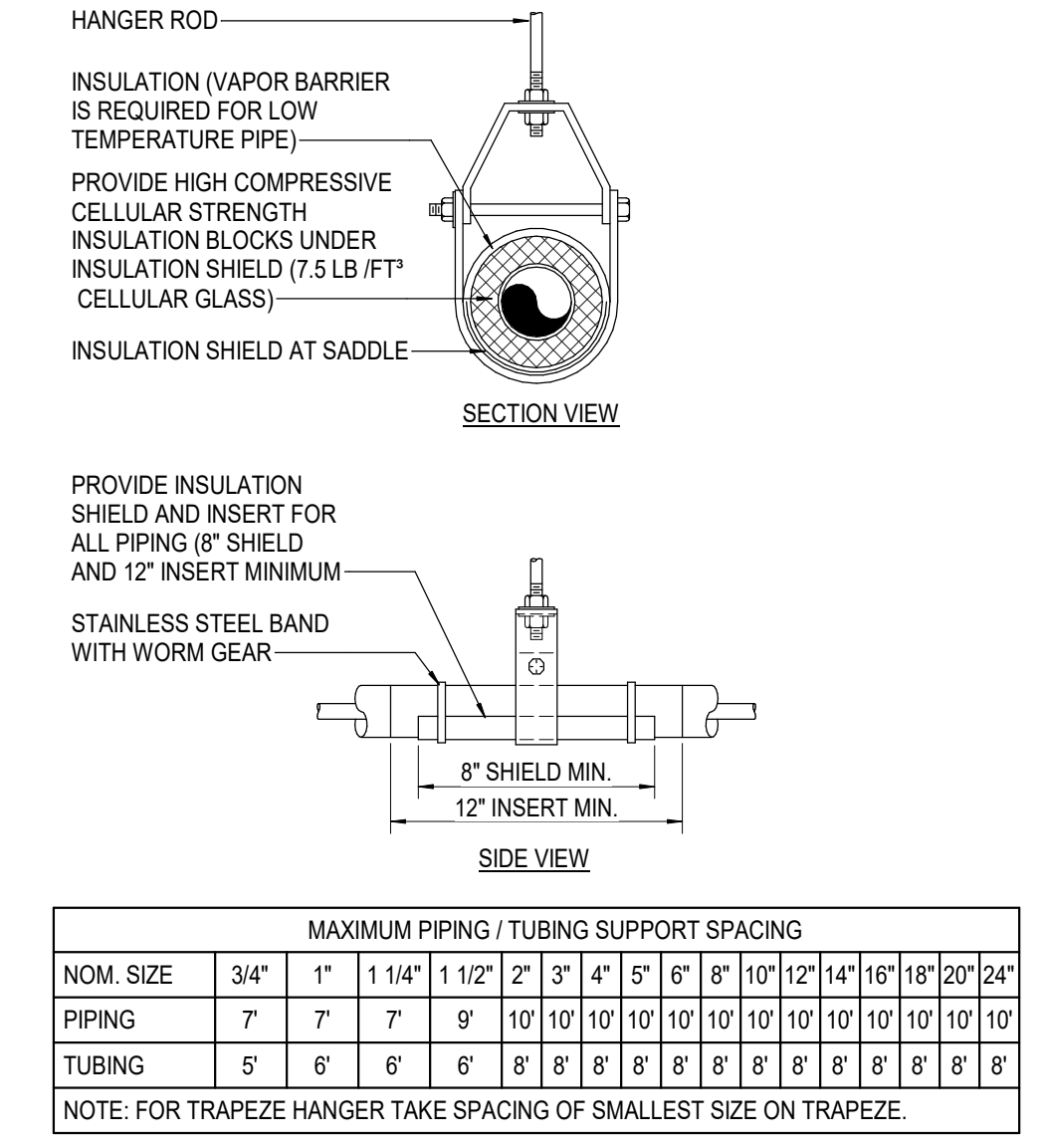
**4 ELECTRIC WATER HEATER PIPING**  
SCALE: N.T.S.



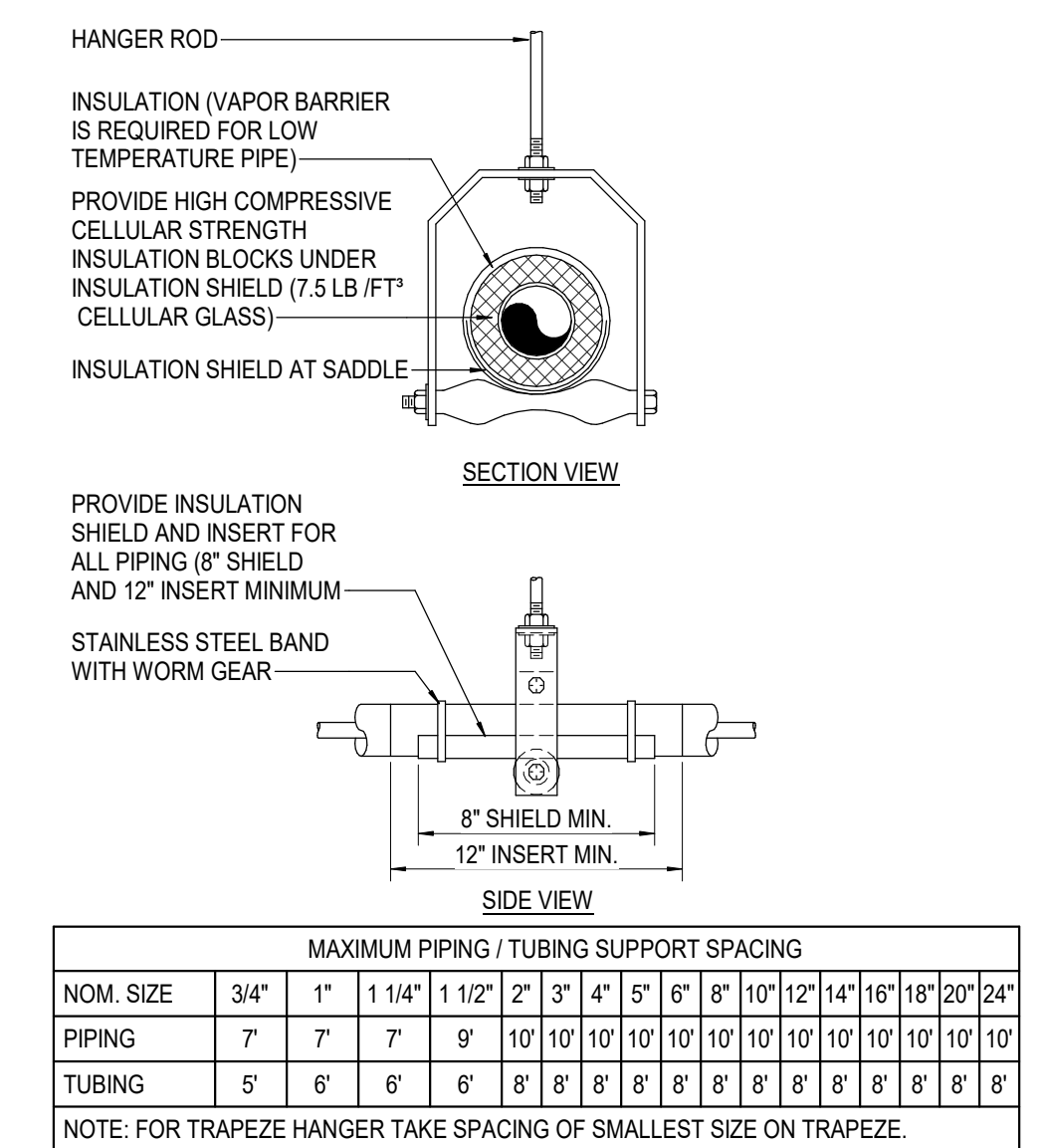
**5 WASHER / DRAIN BOX CONNECTION DETAIL**  
SCALE: NOT TO SCALE



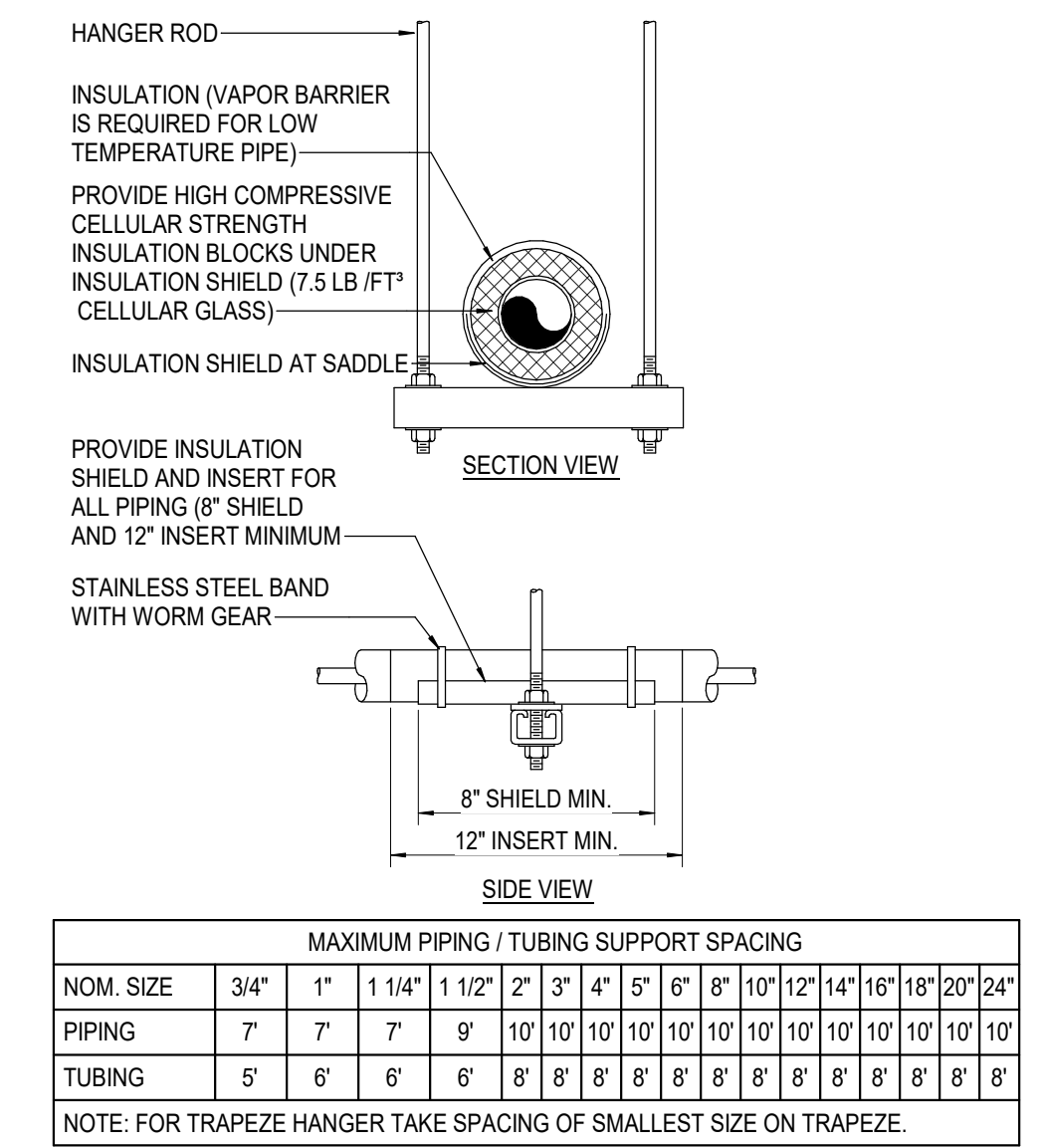
**6 BACKFLOW PREVENTER MOUNTING DETAIL**  
SCALE: NOT TO SCALE



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

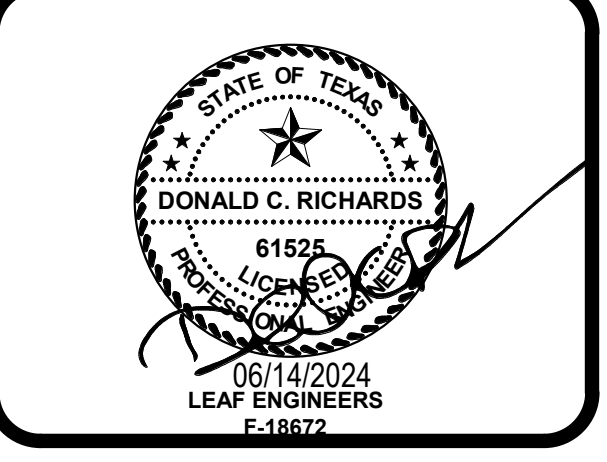
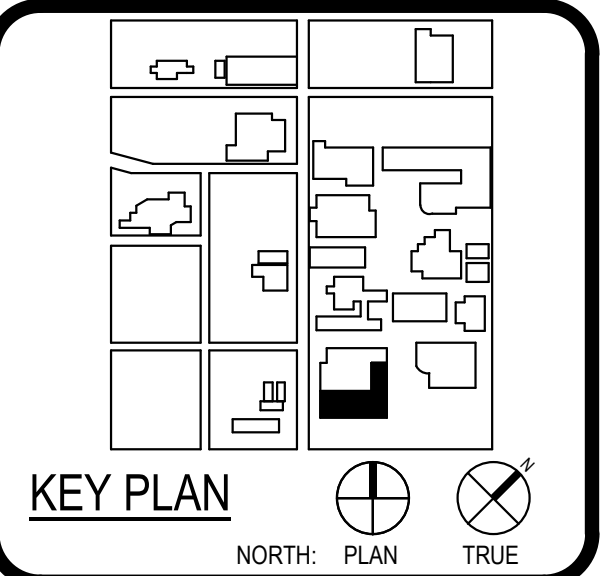


**2 ADJUSTABLE ROLLER PIPE HANGER DETAIL**  
SCALE: NOT TO SCALE



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

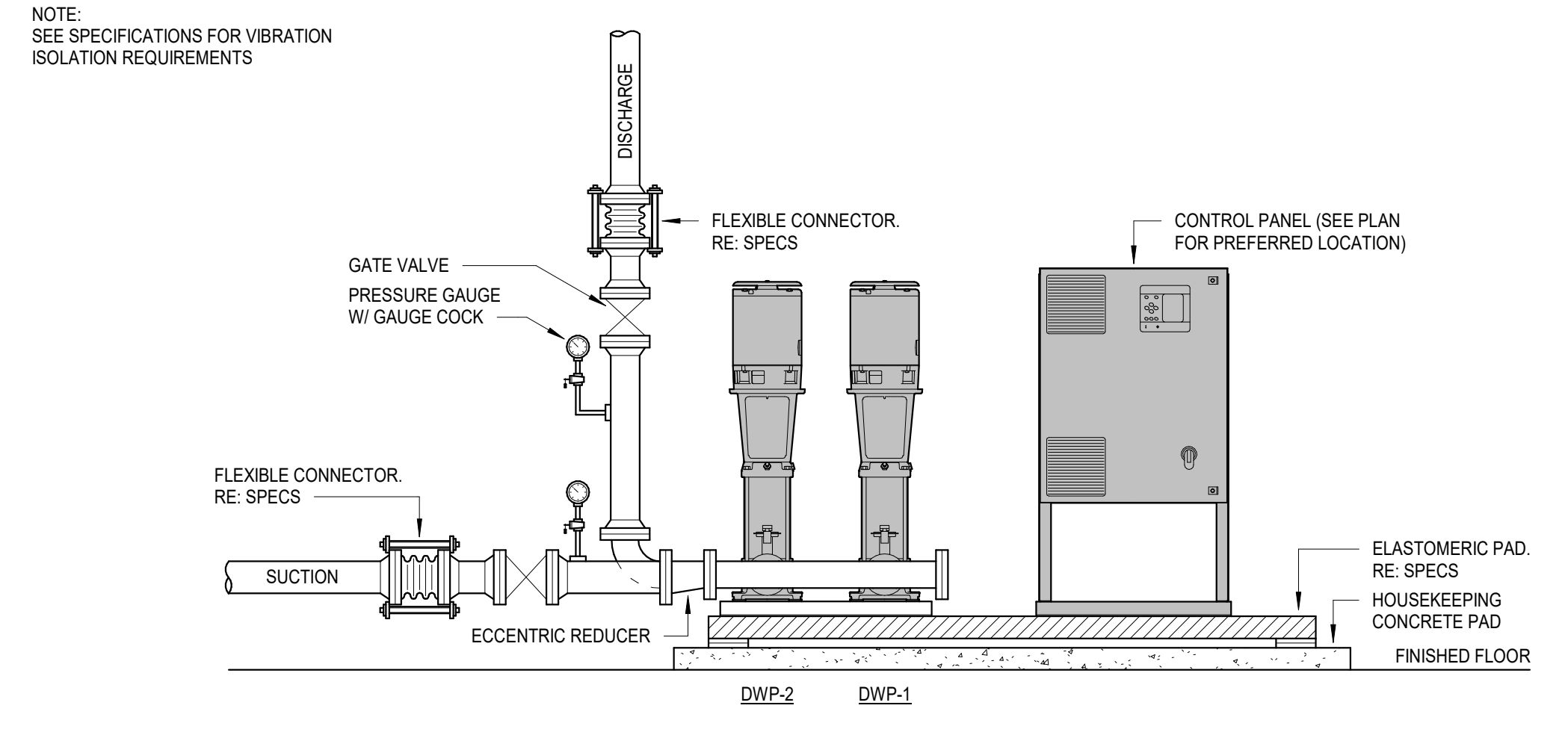
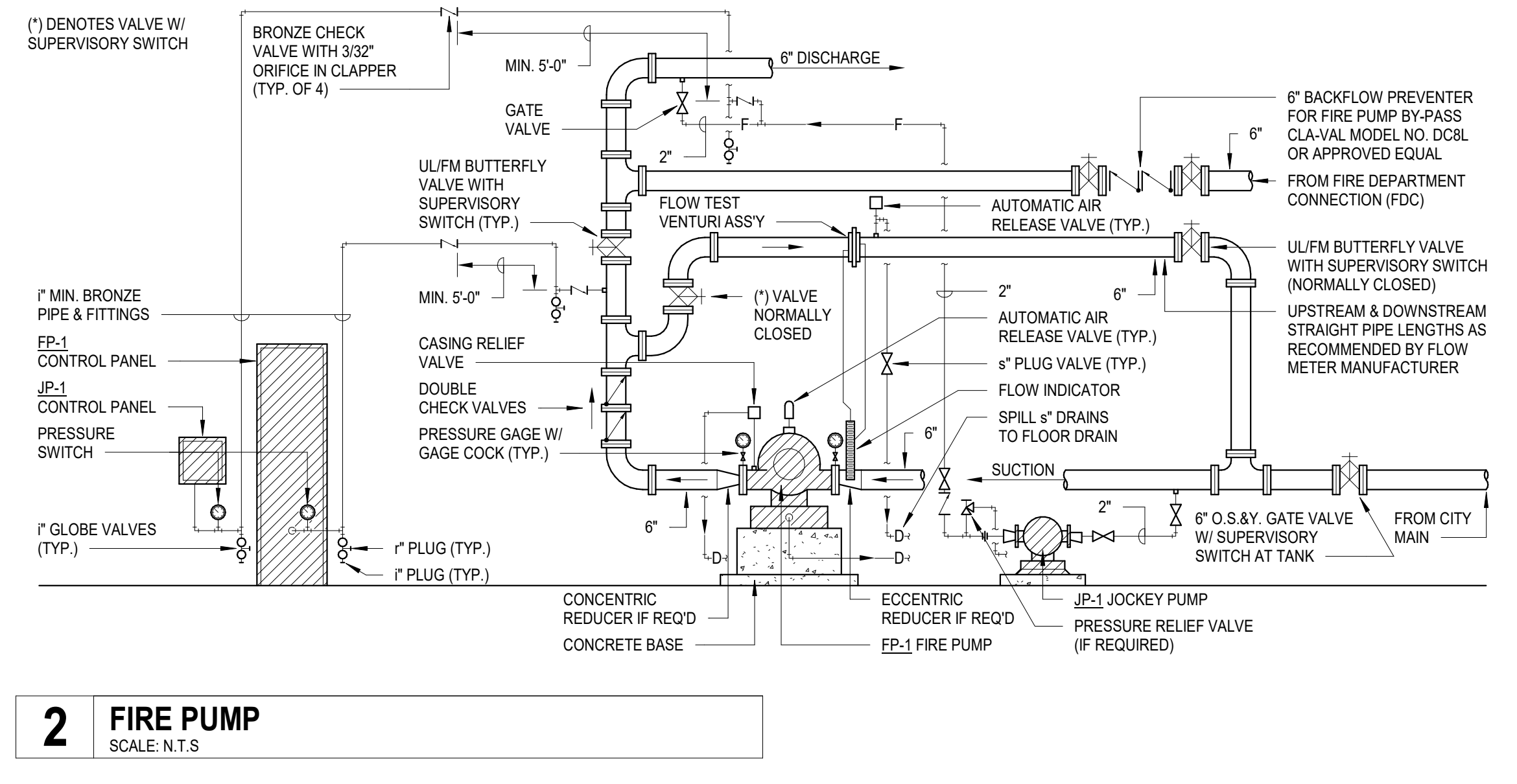
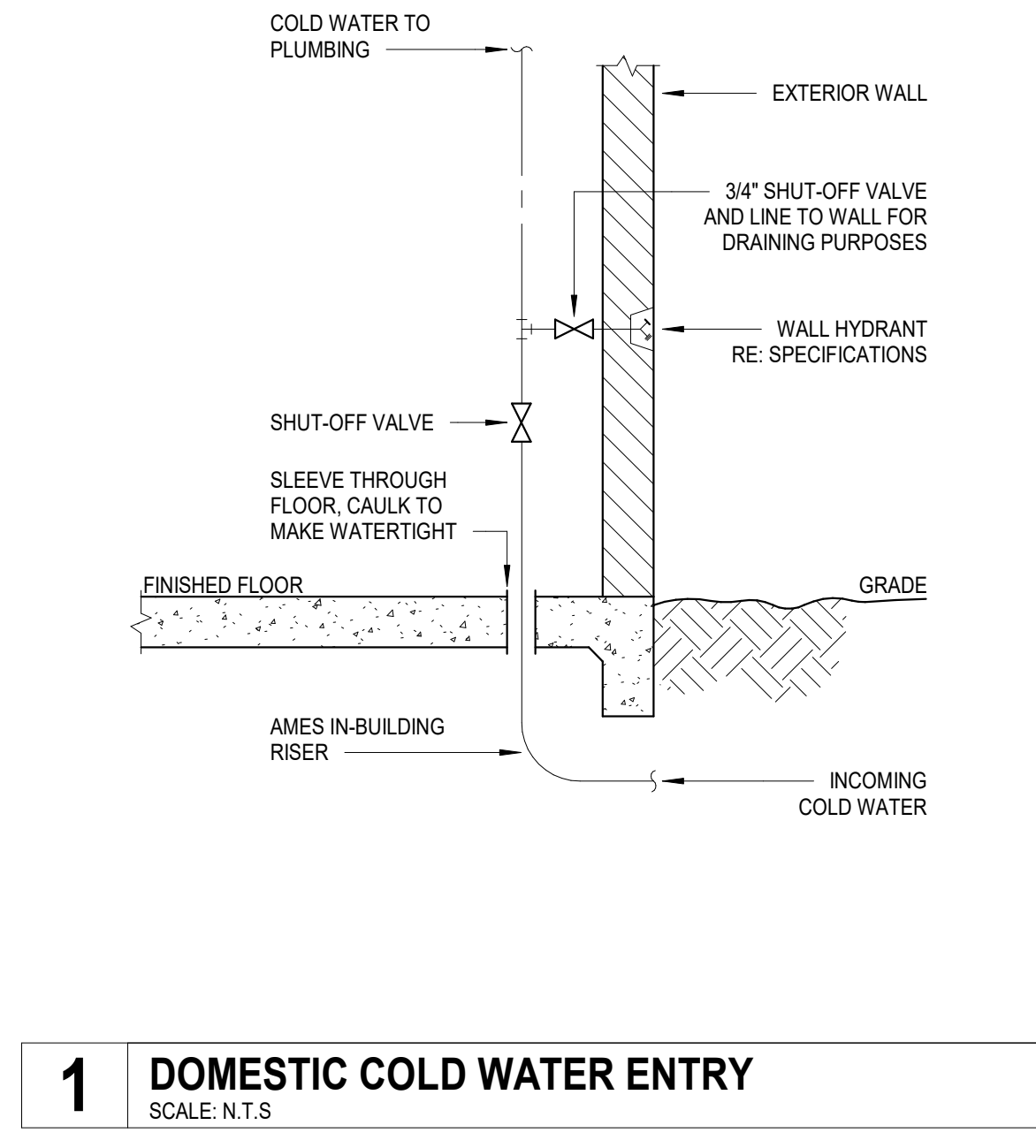
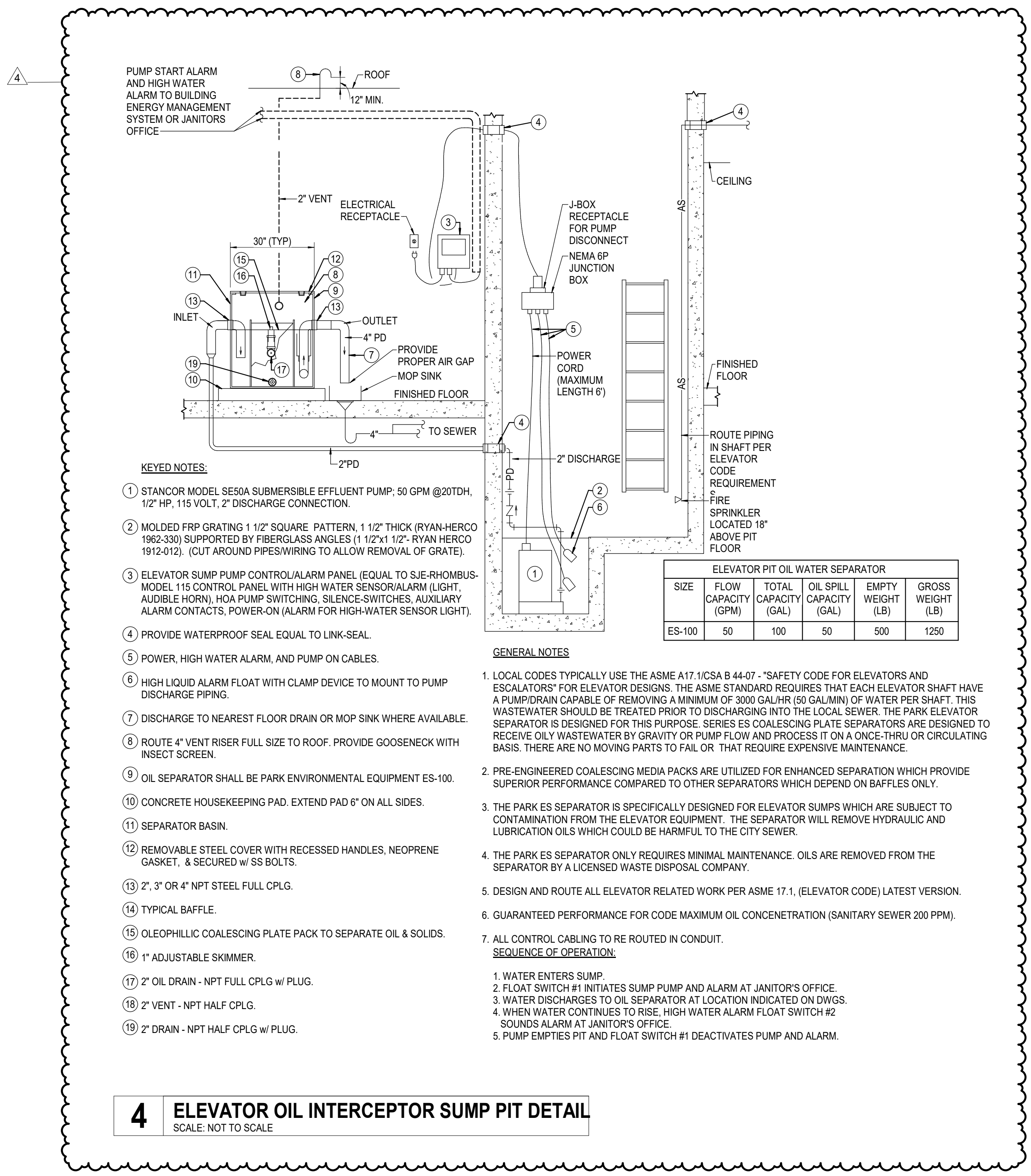
ARCHITECT	PBK Architects, Inc.
SAN ANTONIO 601 N.W. Loop 410, Suite 400 San Antonio, TX 78216 210-820-0123 P 210-829-0578 F TX Firm BR 1608	
ASSOCIATE ARCHITECT	MAX ARCHITECTS
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CLIENT	Alamo Colleges	
DATE	06/14/2024	
PROJECT NUMBER	230462	
DRAWING HISTORY		
No.	Description	Date

ISSUE FOR CONSTRUCTION  
BUILDING NUMBER 1

PLUMBING DETAILS  
 P-602  
 FOR BLUEBEAM LABELING OCR  
 File Path: Autodesk Docs://Name CS\_230462\_A1 Philip College WBB Add#P23 WFAC - Blackbox Addition - A03.rvt  
 CHECKED BY: [Blank]  
 CHECKER: [Blank]  
 DRAWN BY: [Blank]  
 AUTHOR: [Blank]  
 Plot Stamp: 7/8/2024 7:29:34 AM



FIRE ALARM LEGEND table with columns for SYMBOL and DESCRIPTION. Includes items like FOOT ADDED TO ANY SYMBOL, MANUAL FIRE ALARM PULL STATION, FIRE ALARM SPEAKER OR HORN, VISUAL ALARM STROBE, SMOKE DETECTOR, HEAT DETECTOR, CARBON MONOXIDE DETECTOR, BEAM SMOKE DETECTOR, FIRE FIGHTER'S TELEPHONE JACK, AUXILIARY FIRE CONTROL RELAY, FIRE SMOKE DUCT DAMPER, TERMINAL CABINET, FIRE ALARM CONTROL PANEL, FIRE ALARM ANNUNCIATOR PANEL, FIRE ALARM TRANSDUCER, SPRINKLER SYSTEM GATE VALVE MONITOR SWITCH, SPRINKLER SYSTEM WATER FLOW SWITCH, TAMPER SWITCH, SPRINKLER SYSTEM ALARM CHECK VALVE, SPRINKLER SYSTEM ELECTRICAL ALARM BELL, SPRINKLER SYSTEM PRE-ACTION CONTROL PANEL, DOOR HOLDER, MONITOR MODULE.

- NOTE: 1. EVERY SYMBOL SHOWN ON LEGEND MAY NOT APPEAR ON DRAWINGS. REFER TO GENERAL ELECTRICAL NOTES FOR WALL-MOUNTED DEVICE MOUNTING HEIGHTS AND BACK BOX REQUIREMENTS. 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. CONTRACTOR SHALL PROVIDE BEAM SMOKE DETECTORS IN ALL HIGH CEILING AREAS AS REQUIRED BY CODE.

SEQUENCE OF OPERATIONS table with columns for ID and DESCRIPTION. Includes items like WHEN A FIRE ALARM CONDITION IS DETECTED BY ANY OF THE SYSTEM ALARM INITIATING DEVICES, THE SYSTEM COMMON ALARM LED ON THE CPU MODULE SHALL FLASH, AN ALARM SHALL BE SILENCED BY A CODE OR FIREFIGHTER KEY, DE-ACTIVATE HVAC SYSTEMS OVER 2000 CFM IN AREA OF ALARM, DISPLAY SYSTEM STATUS CHANGES ON THE REMOTE ANNUNCIATOR(S), RELEASE ALL SMOKE DOOR, FIRE DOORS, FIRE COILING DOORS, FIRE SMOKE DAMPERS AND FIRE SHUTTERS.

GENERAL FIRE ALARM NOTES table with columns for ID and DESCRIPTION. Includes items like ALL 120V POWER REQUIRED FOR THE FUNCTIONALITY OF THE FIRE ALARM SYSTEMS SHALL BE A DEDICATED CIRCUIT, THE PROJECT'S ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL IN WALL CONDUITS, FIRE ALARM AUDIBLE DEVICES, VISUAL APPLIANCES CANDELA SHALL BE THE HIGHEST VOLTAGE ALLOWED BY NFPA, FIRE ALARM WIRING SHALL ROUTE DOWN CORRIDORS AND WALKWAYS PARALLEL AND PERPENDICULAR TO BUILDING WALLS, 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.

- NOTE: 1. EVERY SYMBOL SHOWN ON LEGEND MAY NOT APPEAR ON DRAWINGS. REFER TO GENERAL ELECTRICAL NOTES FOR WALL-MOUNTED DEVICE MOUNTING HEIGHTS AND BACK BOX REQUIREMENTS. 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. CONTRACTOR SHALL PROVIDE BEAM SMOKE DETECTORS IN ALL HIGH CEILING AREAS AS REQUIRED BY CODE.

AUDIO & VIDEO GENERAL NOTES table with columns for ID and DESCRIPTION. Includes items like ALL 120V POWER REQUIRED FOR THE FUNCTIONALITY OF EACH SYSTEM SHALL BE A DEDICATED CIRCUIT, THE PROJECT'S ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL IN WALL CONDUITS, ALL EXPOSED WIRING OR WIRING ROUTING ACROSS NON ACCESSIBLE CEILINGS SHALL BE ROUTED IN CONDUIT, AV CONTRACTOR SHALL COORDINATE ALL MOUNTING LOCATIONS OF ALL AV DEVICES TO PROVIDE EVEN AND BALANCED AUDIO COVERAGE OF INTENDED LISTENING AREAS, EXTERIOR SPEAKERS SHALL BE ON A SEPARATE LOW VOLTAGE CIRCUIT FROM INTERIOR SPEAKERS.

SECURITY SYSTEMS LEGEND table with columns for SYMBOL and DESCRIPTION. Includes items like INTERIOR VIDEO SURVEILLANCE CAMERA, EXTERIOR WALL MOUNTED CAMERA VIDEO SURVEILLANCE CAMERA, 360 DEGREE CEILING MOUNTED MOTION DETECTOR, INTRUSION DETECTION SYSTEM ARMS/IDARM KEYPAD WITH LOCKING VANDAL RESISTANT COVER, PANIC BUTTON TO BE TIED TO EMERGENCY GENERATOR, INTRUSION DETECTION CONTROL PANELS MOUNTED ON WALL, ACCESS CONTROL ACTIVATING CARD READER, DOOR RELEASE BUTTON, DOOR CONTACT, CEILING MOUNTED GLASS BREAK DETECTOR, WALL MOUNTED GLASS BREAK DETECTOR.

SECURITY GENERAL NOTES table with columns for ID and DESCRIPTION. Includes items like 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 SUPPLY AVAILABLE, A DOOR CONTACT POSITION SENSOR IS REQUIRED AT ALL ROOF HATCHES (TYPICAL), SECURITY CONTRACTOR IS RESPONSIBLE FOR CONNECTING SYSTEM TO DISTRICT'S REMOTE MONITORING SERVICE, SECURITY CONTRACTOR SHALL PROVIDE ALL VIDEO SURVEILLANCE CAMERA MOUNTS AND MOUNTING HARDWARE, CONTRACTOR SHALL INTEGRATE THE INTRUSION DETECTION SYSTEM WITH THE ACCESS CONTROL SYSTEM TO PROVIDE THE FUNCTIONALITY OF THE BURGLAR ALARM BEING DISABLED ON AN AUTHORIZED CARD SWIPE AT ANY CARD READER.

BDA/DAS SYSTEMS LEGEND table with columns for SYMBOL and DESCRIPTION. Includes items like BI-DIRECTIONAL AMPLIFIER (BDA) SIGNAL BOOSTER, BDA ANNUNCIATOR PANEL. Includes a note: 1. EVERY SYMBOL SHOWN ON LEGEND MAY NOT APPEAR ON THE DRAWINGS. REFER TO THE SPECIFICATIONS AND THE TECHNOLOGY SYSTEMS GENERAL NOTES FOR INSTALLATION REQUIREMENTS.

TECHNOLOGY PLAN GENERAL NOTES table with columns for ID and DESCRIPTION. Includes items like 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, THE PROJECT'S ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL IN WALL CONDUITS, SYSTEM WIRING AND EQUIPMENT INSTALLATION SHALL BE IN ACCORDANCE WITH ENGINEERING BEST PRACTICES AS ESTABLISHED BY ANSIE/IEEE, BICSI, AND THE NEC, ALL WIRING SHALL MEET ALL STATE AND LOCAL ELECTRICAL CODES, ALL TELECOMMUNICATIONS SYSTEMS EQUIPMENT AND MOUNTING LOCATIONS SHALL BE IN COMPLIANCE WITH ADA ACCESSIBILITY STANDARDS, DATA CABLES ARE TO BE INSTALLED WITH A MINIMUM OF 12 INCHES OF SEPARATION FROM ALL POWER CABLES AND ALL OTHER LOW VOLTAGE CABLING IN ANY PARALLEL OPEN WIRE RUN.

SECURITY SYSTEMS LEGEND table with columns for SYMBOL and DESCRIPTION. Includes items like INTERIOR VIDEO SURVEILLANCE CAMERA, EXTERIOR WALL MOUNTED CAMERA VIDEO SURVEILLANCE CAMERA, 360 DEGREE CEILING MOUNTED MOTION DETECTOR, INTRUSION DETECTION SYSTEM ARMS/IDARM KEYPAD WITH LOCKING VANDAL RESISTANT COVER, PANIC BUTTON TO BE TIED TO EMERGENCY GENERATOR, INTRUSION DETECTION CONTROL PANELS MOUNTED ON WALL, ACCESS CONTROL ACTIVATING CARD READER, DOOR RELEASE BUTTON, DOOR CONTACT, CEILING MOUNTED GLASS BREAK DETECTOR, WALL MOUNTED GLASS BREAK DETECTOR.

SECURITY GENERAL NOTES table with columns for ID and DESCRIPTION. Includes items like 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 SUPPLY AVAILABLE, A DOOR CONTACT POSITION SENSOR IS REQUIRED AT ALL ROOF HATCHES (TYPICAL), SECURITY CONTRACTOR IS RESPONSIBLE FOR CONNECTING SYSTEM TO DISTRICT'S REMOTE MONITORING SERVICE, SECURITY CONTRACTOR SHALL PROVIDE ALL VIDEO SURVEILLANCE CAMERA MOUNTS AND MOUNTING HARDWARE, CONTRACTOR SHALL INTEGRATE THE INTRUSION DETECTION SYSTEM WITH THE ACCESS CONTROL SYSTEM TO PROVIDE THE FUNCTIONALITY OF THE BURGLAR ALARM BEING DISABLED ON AN AUTHORIZED CARD SWIPE AT ANY CARD READER.

TECHNOLOGY LEGEND table with columns for SYMBOL and DESCRIPTION. Includes items like INDICATES THE LOCATION OF A NEW TECHNOLOGY OUTLET, INDICATES THE LOCATION OF A CEILING MOUNTED OUTLET, INDICATES THE LOCATION OF A FLOOR MOUNTED OUTLET, INDICATES THE LOCATION OF A TEACHER'S PRESENTATION STATION, INDICATES THE LOCATION OF ASSISTED LISTENING ANTENNA, INDICATES WIRELESS ACCESS POINT CONNECTION, INDICATES THE LOCATION OF A VIDEO PROJECTOR, INDICATES THE LOCATION OF A SCOREBOARD CONTROL INTERFACE PLATE, INDICATES THE LOCATION OF A SCOREBOARD, INDICATES THE LOCATION OF AN IP SECURITY CAMERA, INDICATES INTERCOM SPEAKER, FLUSH MOUNTED IN CEILING, INDICATES WALL MOUNTED INTERCOM SPEAKER, INDICATES WALL MOUNTED LOCAL SOUND SPEAKER, INDICATES CEILING MOUNTED LOCAL SOUND SPEAKER, INDICATES CEILING MOUNTED LOCAL SOUND SUBWOOFER SPEAKER.

- NOTE: 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.

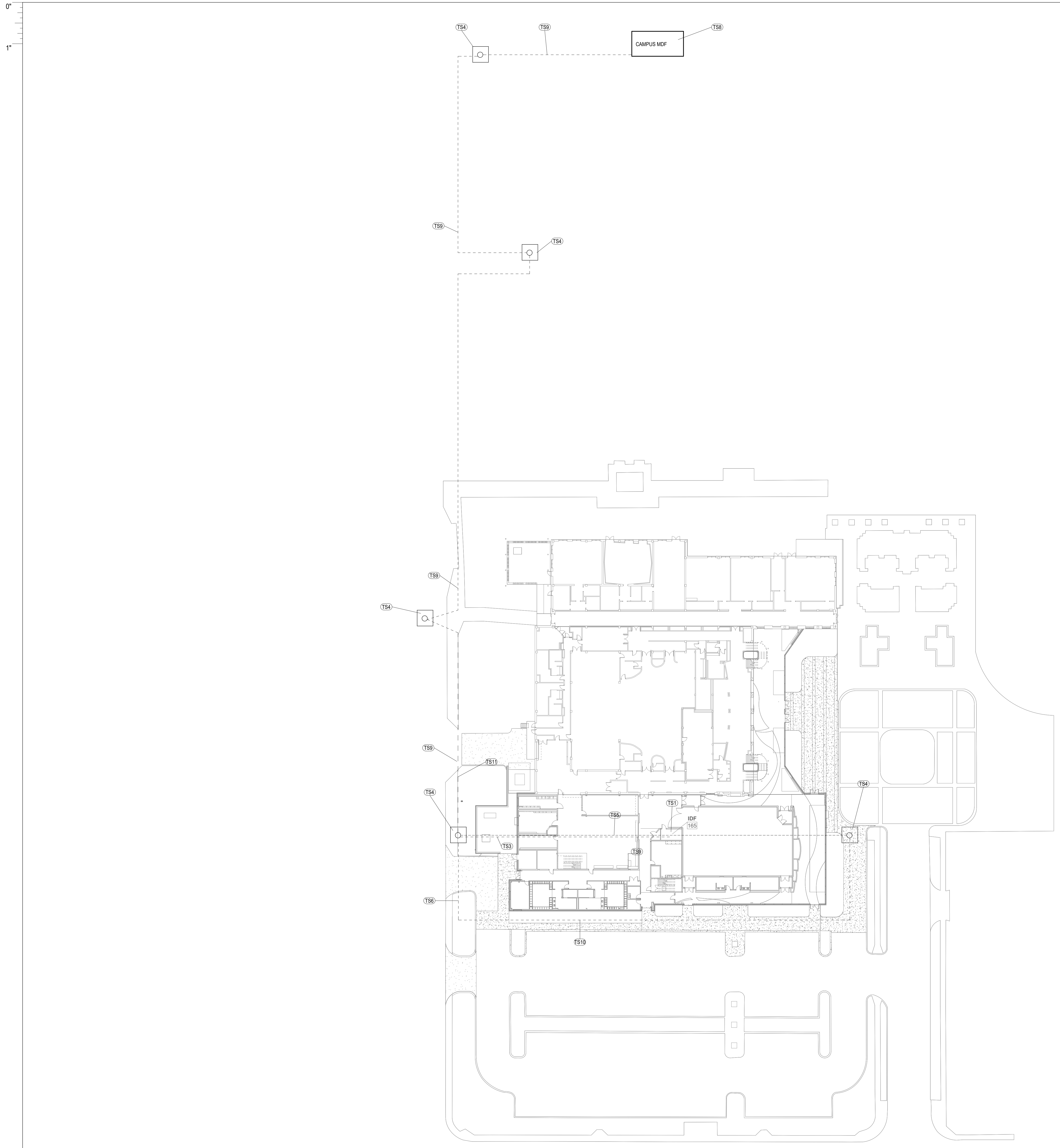
TECHNOLOGY LEGEND table with columns for SYMBOL and DESCRIPTION. Includes items like INDICATES THE LOCATION OF A NEW TECHNOLOGY OUTLET, INDICATES THE LOCATION OF A CEILING MOUNTED OUTLET, INDICATES THE LOCATION OF A FLOOR MOUNTED OUTLET, INDICATES THE LOCATION OF A TEACHER'S PRESENTATION STATION, INDICATES THE LOCATION OF ASSISTED LISTENING ANTENNA, INDICATES WIRELESS ACCESS POINT CONNECTION, INDICATES THE LOCATION OF A VIDEO PROJECTOR, INDICATES THE LOCATION OF A SCOREBOARD CONTROL INTERFACE PLATE, INDICATES THE LOCATION OF A SCOREBOARD, INDICATES THE LOCATION OF AN IP SECURITY CAMERA, INDICATES INTERCOM SPEAKER, FLUSH MOUNTED IN CEILING, INDICATES WALL MOUNTED INTERCOM SPEAKER, INDICATES WALL MOUNTED LOCAL SOUND SPEAKER, INDICATES CEILING MOUNTED LOCAL SOUND SPEAKER, INDICATES CEILING MOUNTED LOCAL SOUND SUBWOOFER SPEAKER.

- NOTE: 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.

Architectural information including PBK ARCHITECTS logo, project name 'WFAC Black Box Addition PKG 1', client 'Alamo Colleges', date '2024/06/14', and 'ISSUE FOR CONSTRUCTION' stamp.



# ISSUE FOR CONSTRUCTION



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

**TECHNOLOGY KEYNOTES**

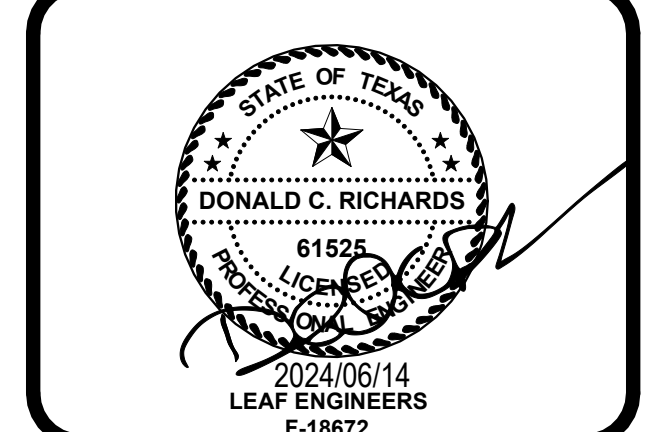
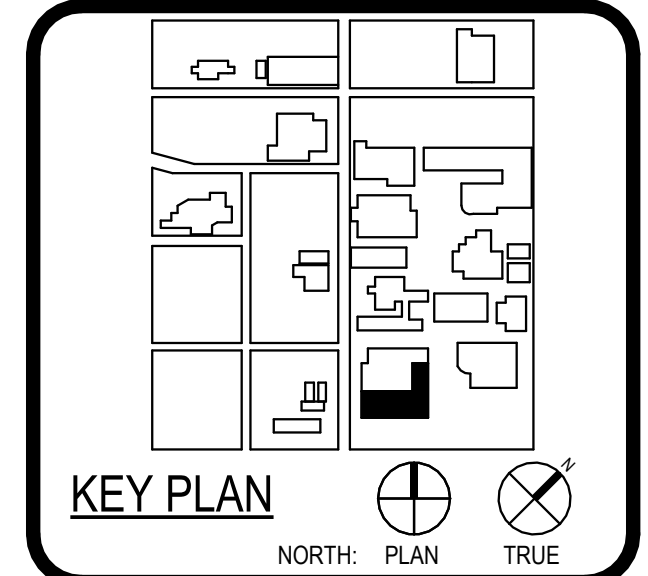
- TS1 INDICATES THE APPROXIMATE LOCATION OF THE NEW BUILDING IDF. CONDUITS SHALL BE STUB EVENTLY AT +8 A.F.F TO ENTER THE NEW MDF/IDF
- TS3 CONTRACTOR TO INSTALL TWO (2) FOUR INCH (4") CONDUIT WITH A PULLING LINE FROM THIS MANHOLE ALL THE WAY TO THE NEW IDF ROUTED AT 4 B.F.G. PROVIDE TWO (2) 3-CELL MAXCELL 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 SPLICED AT THE SAME BOX IT WAS PULLED FROM THE BEGINNING JUST FROM A DIFFERENT PATHWAY. CONTRACTOR SHALL PAY FOR ANY DAMAGE TO EXISTING FIBER.
- TS6 INDICATES THE APPROXIMATE LOCATION FOR THE NEW PATHWAY FOR THE EXISTING FIBER TO BE RE-ROUTED TO MAINTAIN THE SERVICE UP AND RUNNING. CONTRACTOR TO FIELD VERIFY THE AMOUNT OF CONDUIT NEEDED FOR THIS NEW ROUTE TO WORK AS THE PREVIOUS.
- 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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ASSOCIATE ARCHITECT	MAX ARCHITECTS 2025 210-829-0123 P 210-829-5578 F TX Firm BR 1608
CONSULTANT	LANDSCAPE SUELL AND GROUP 1111 W. 14th Street San Antonio, TX 78203 210-829-5578 F TX Firm BR 1608
MECHANICAL ENGINEER	LUNY & FRANK ENGINEERING 1111 W. 14th Street San Antonio, TX 78203 210-829-5578 F TX Firm BR 1608
ELECTRICAL ENGINEER	MEYER PROFESSIONALS 1111 W. 14th Street San Antonio, TX 78203 210-829-5578 F TX Firm BR 1608



WFAC Black Box Addition PKG 1



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

ISSUE FOR CONSTRUCTION  
 BUILDING NUMBER 1

**SITE TECHNOLOGY PLAN**

**TS-101**