

Alamo Colleges

WFAC Black Box Addition PKG 1

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

ISSUE FOR PERMIT

2024/05/10



ISSUE FOR PERMIT

WFAC Black Box Addition PKG 1

1801 Martin Luther King Dr.,
San Antonio, TX, 78203
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601N.W.LOOP 410, Suite 400
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San Antonio, TX 78209
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Bryan, TX 77803
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STRUCTURAL ENGINEER
LUNDY & FRANKE ENGINEERING
549 Heimer
San Antonio, TX 78232
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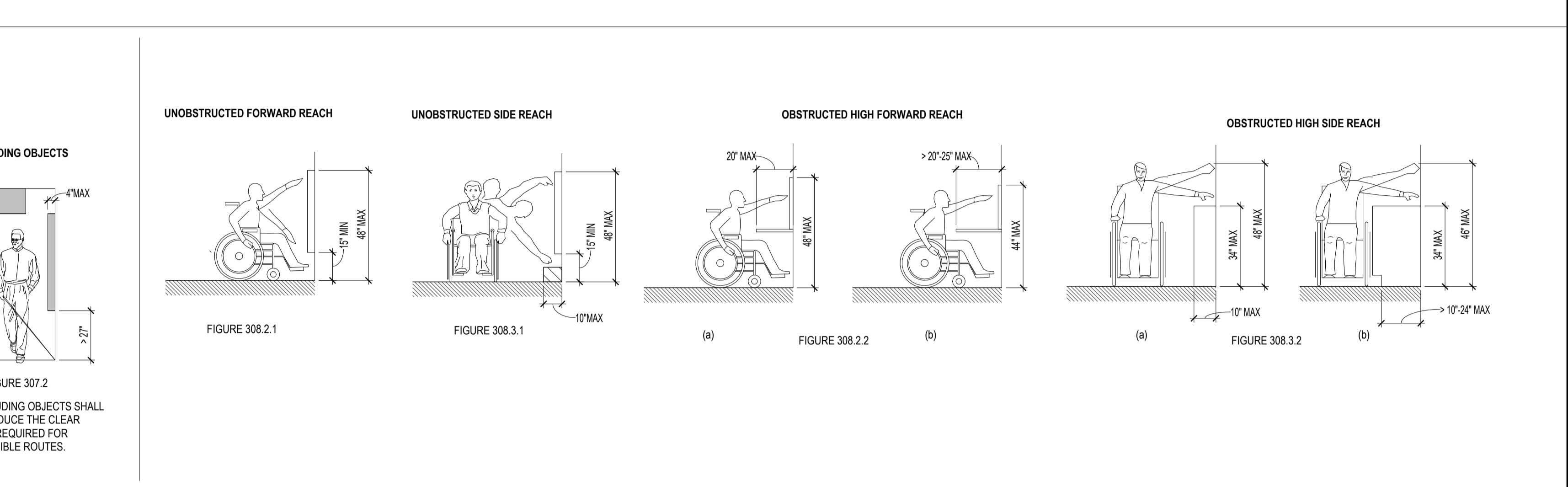
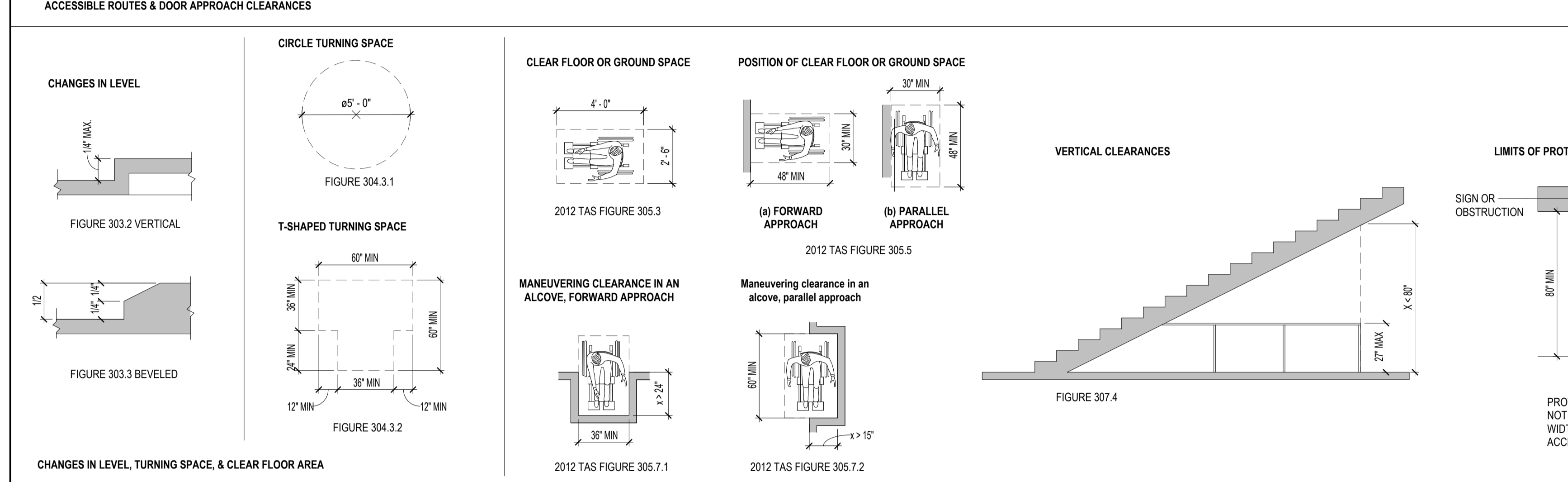
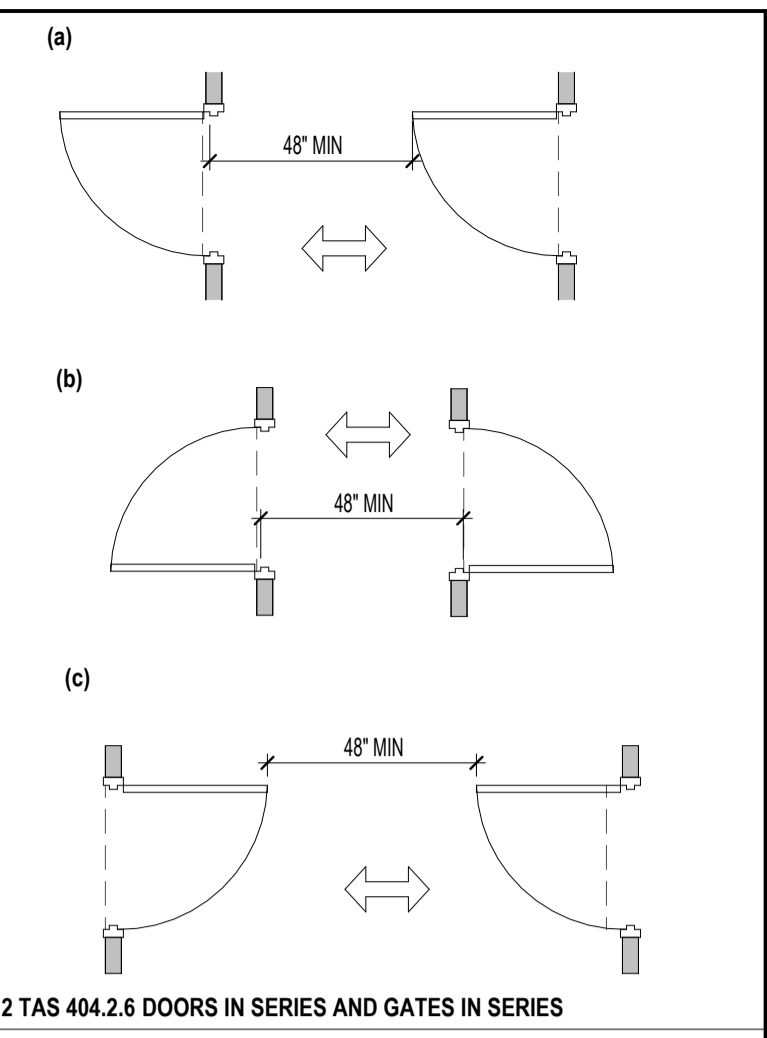
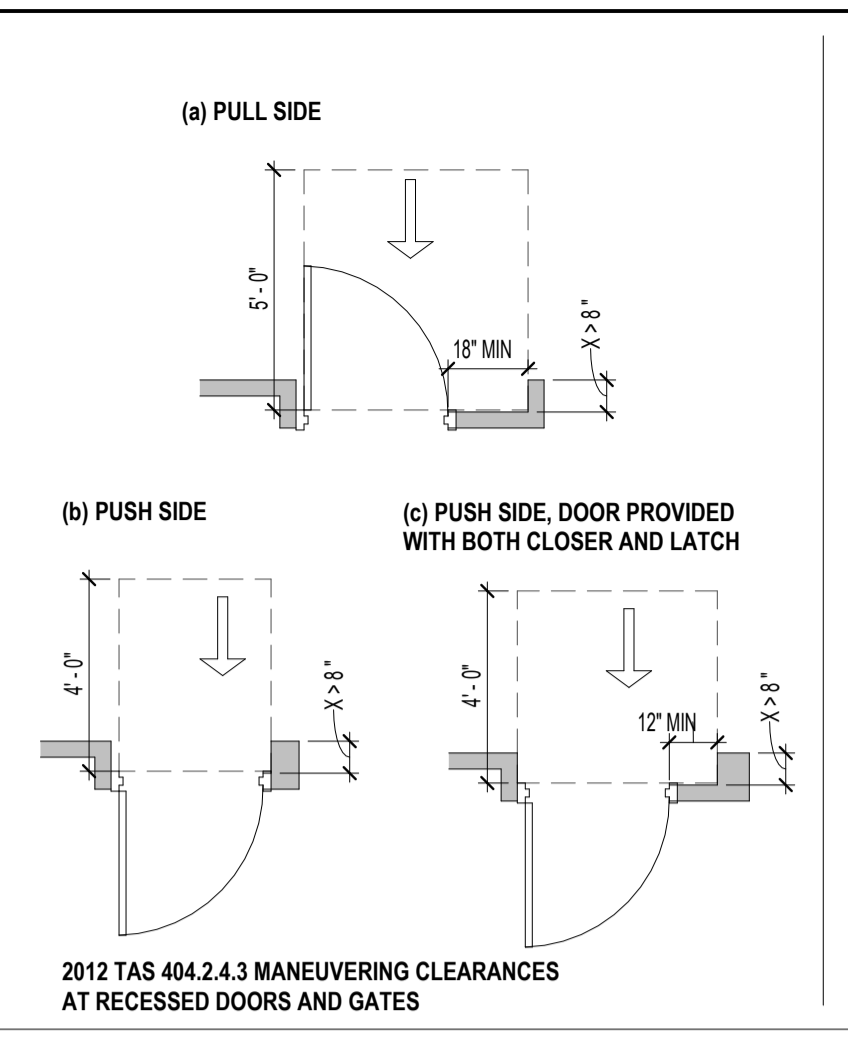
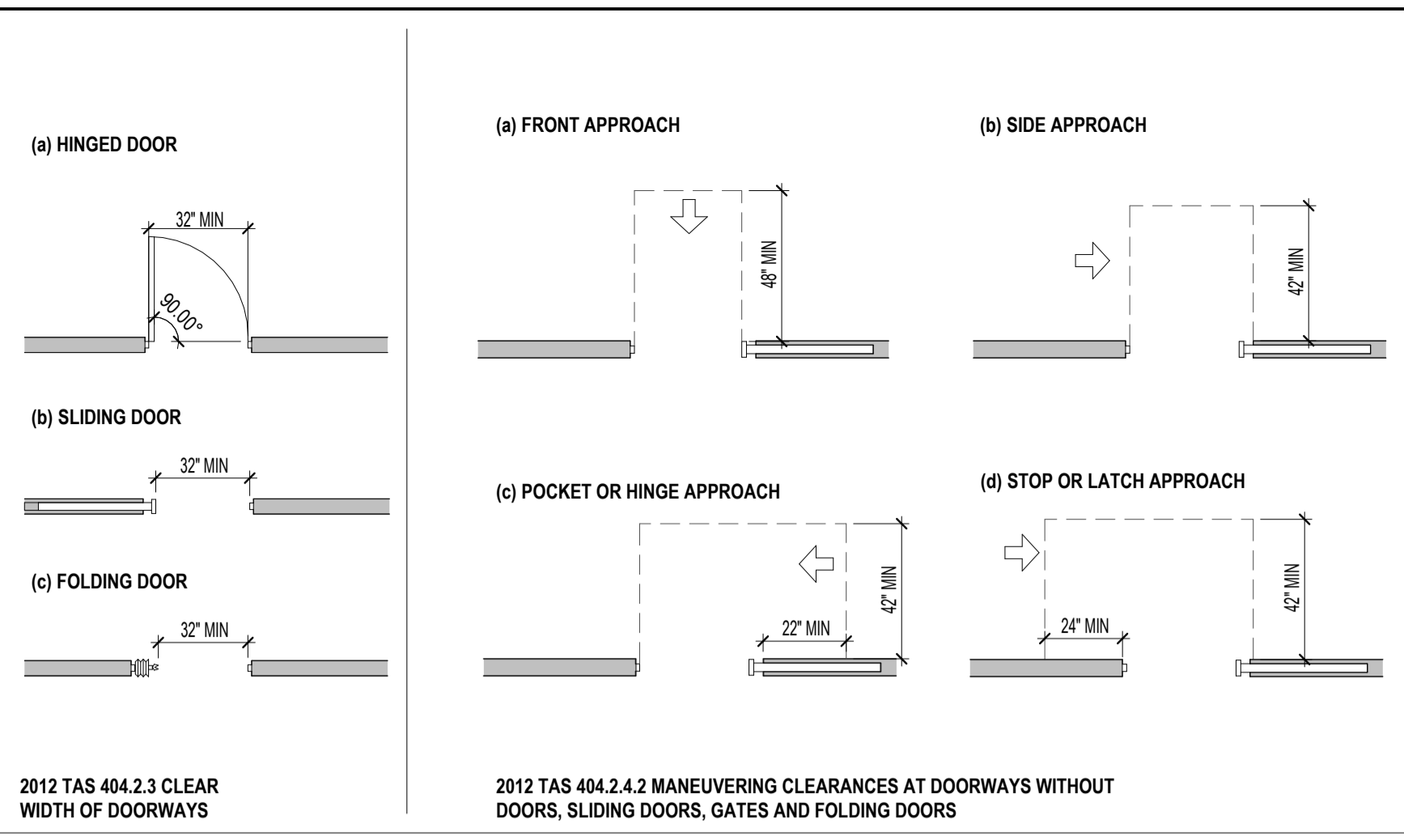
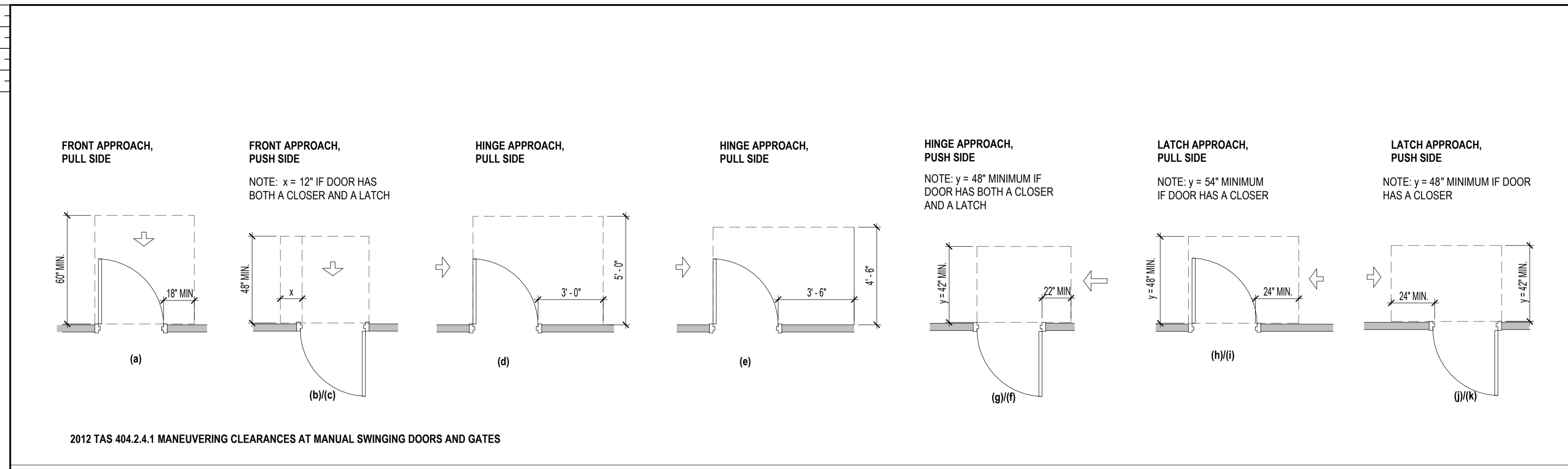
LANDSCAPE ARCHITECT
EDGELAND GROUP
11 Greenway Plaza, 15th Floor
Houston, TX 77046
T 713-460-0988

MEP ENGINEER
LEAF
601N.W.LOOP 410, Suite 400
San Antonio, TX 78216
T 210-829-0123

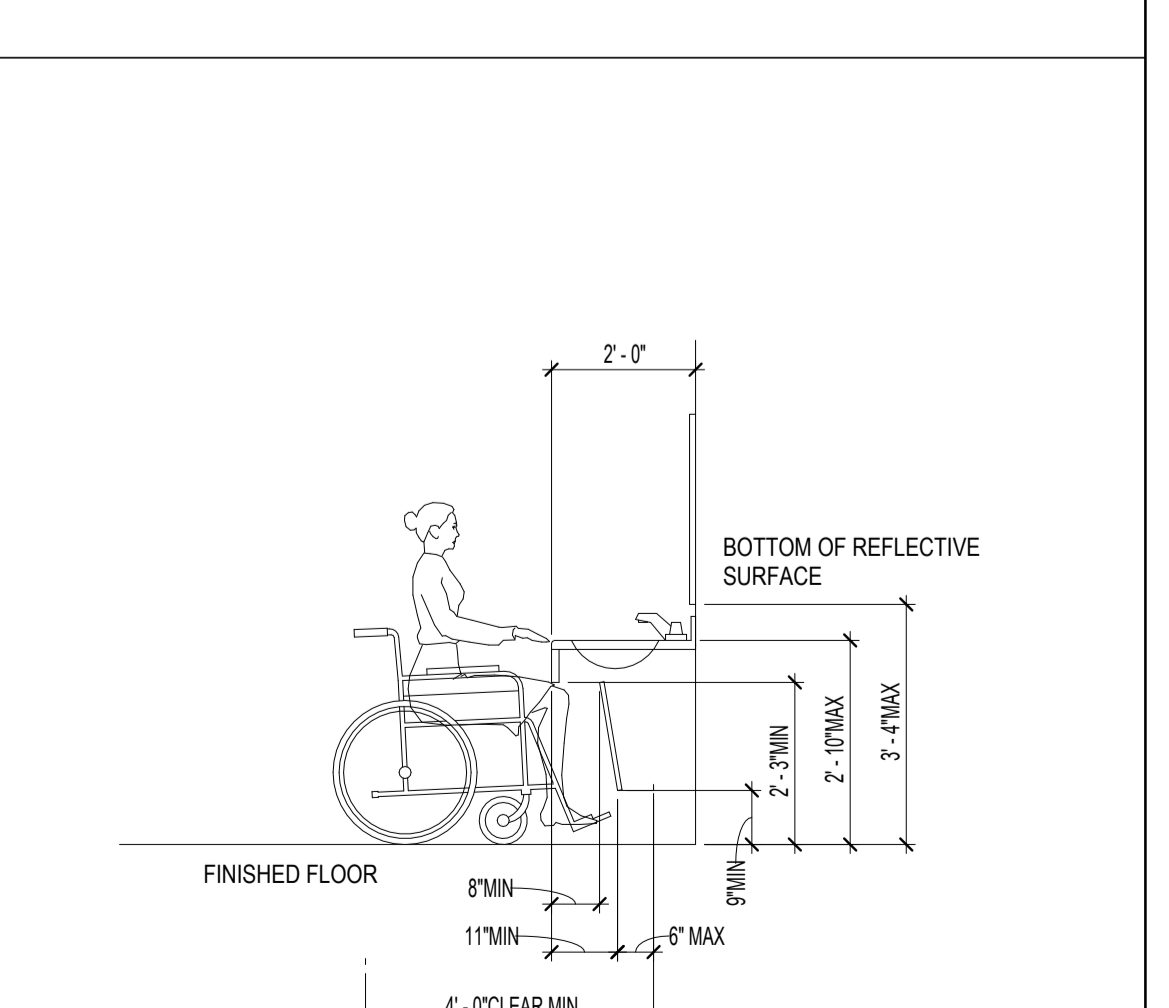
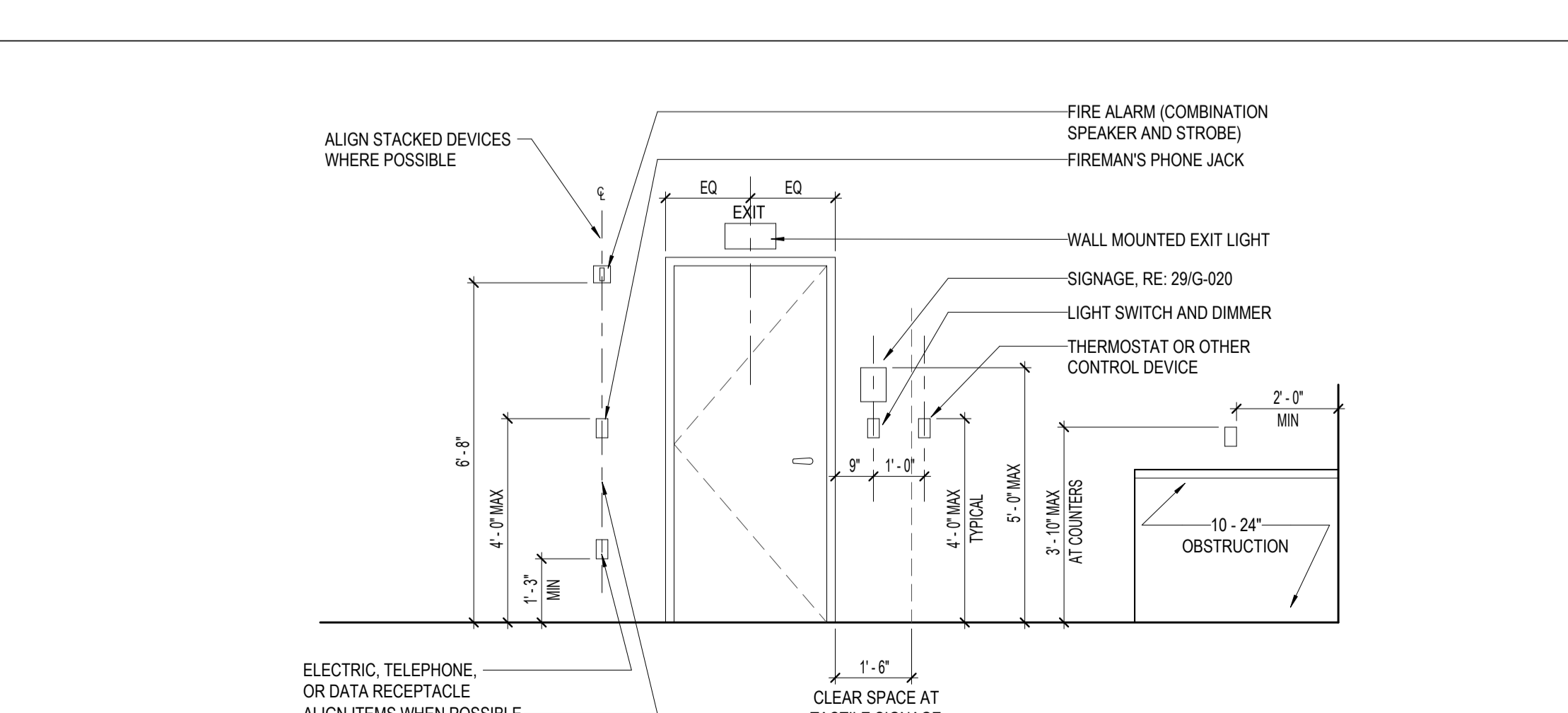
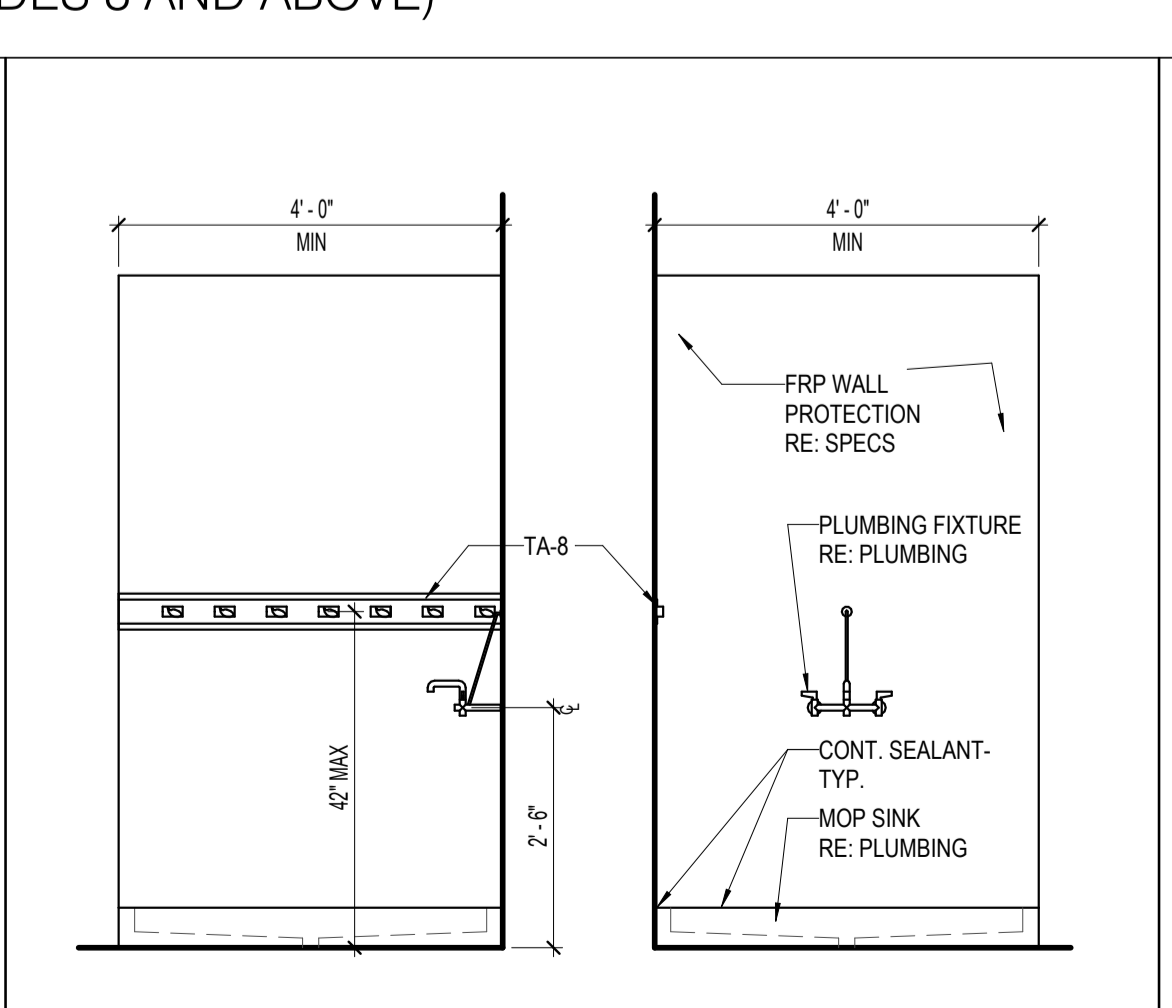
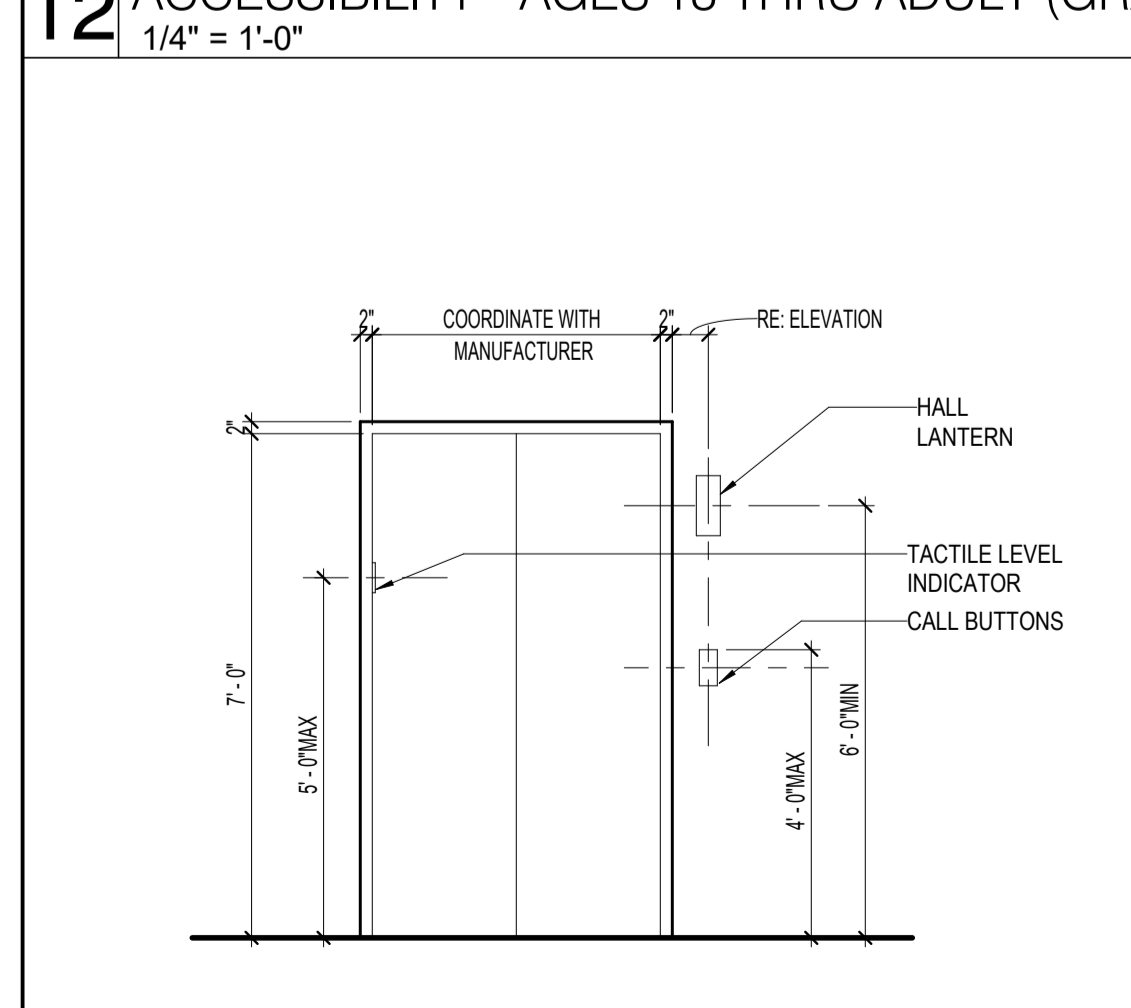
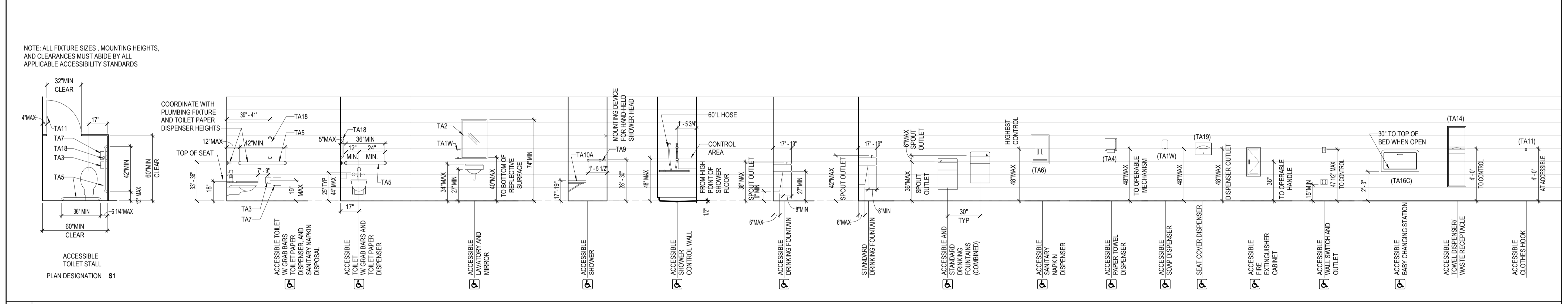
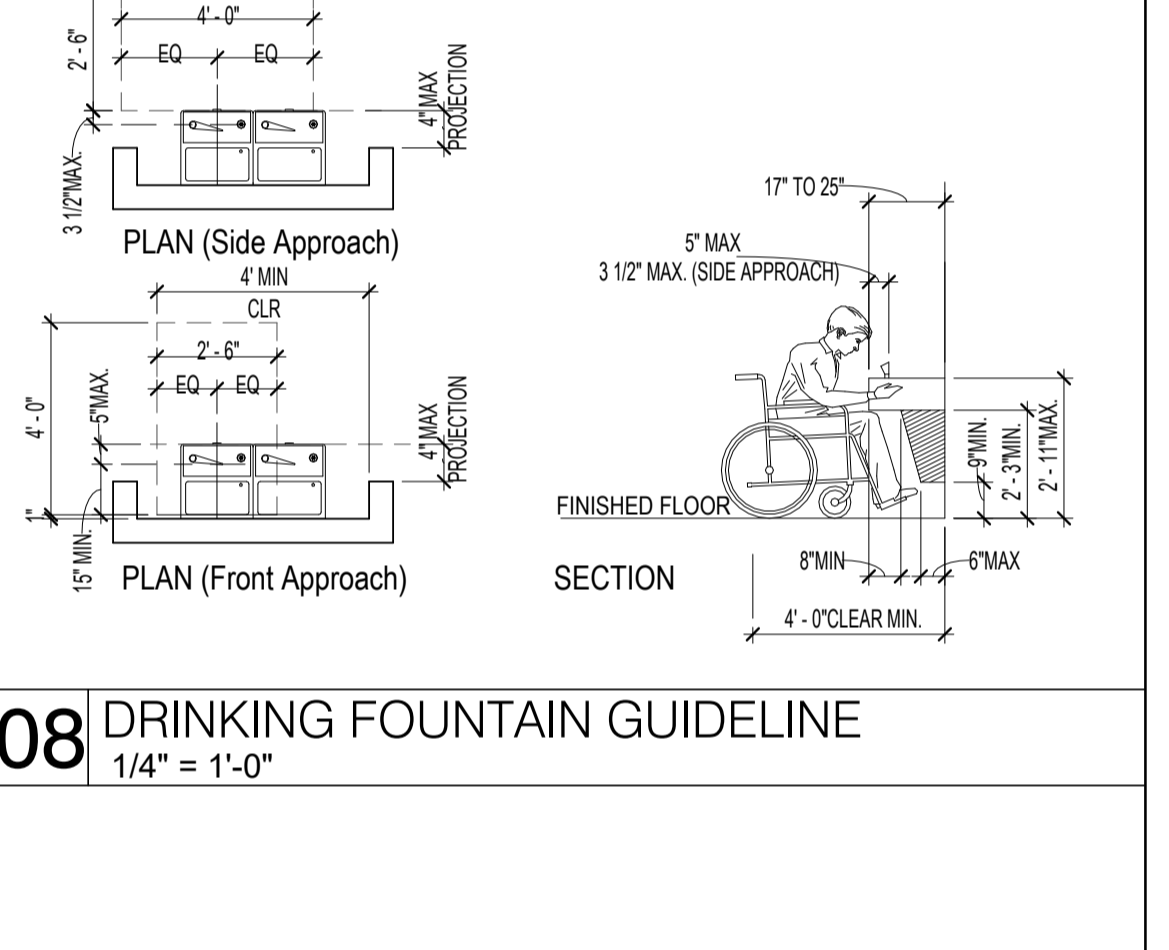
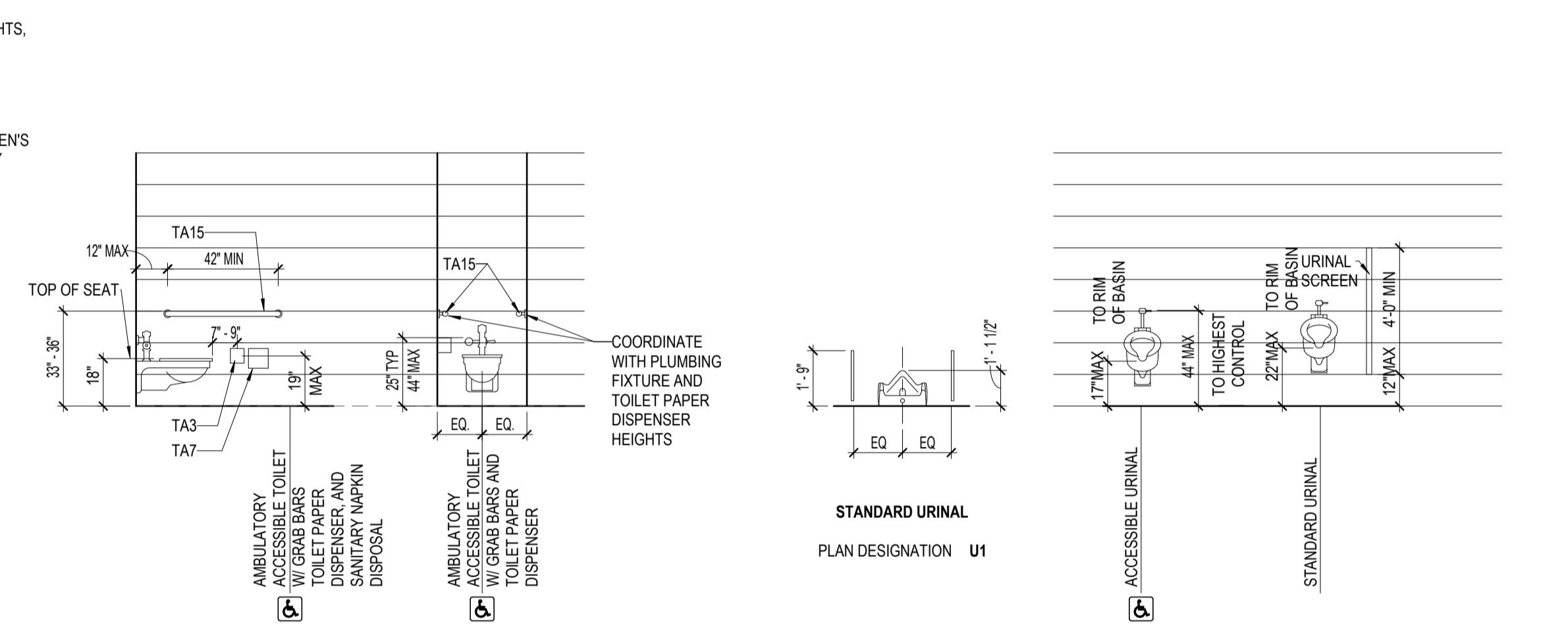
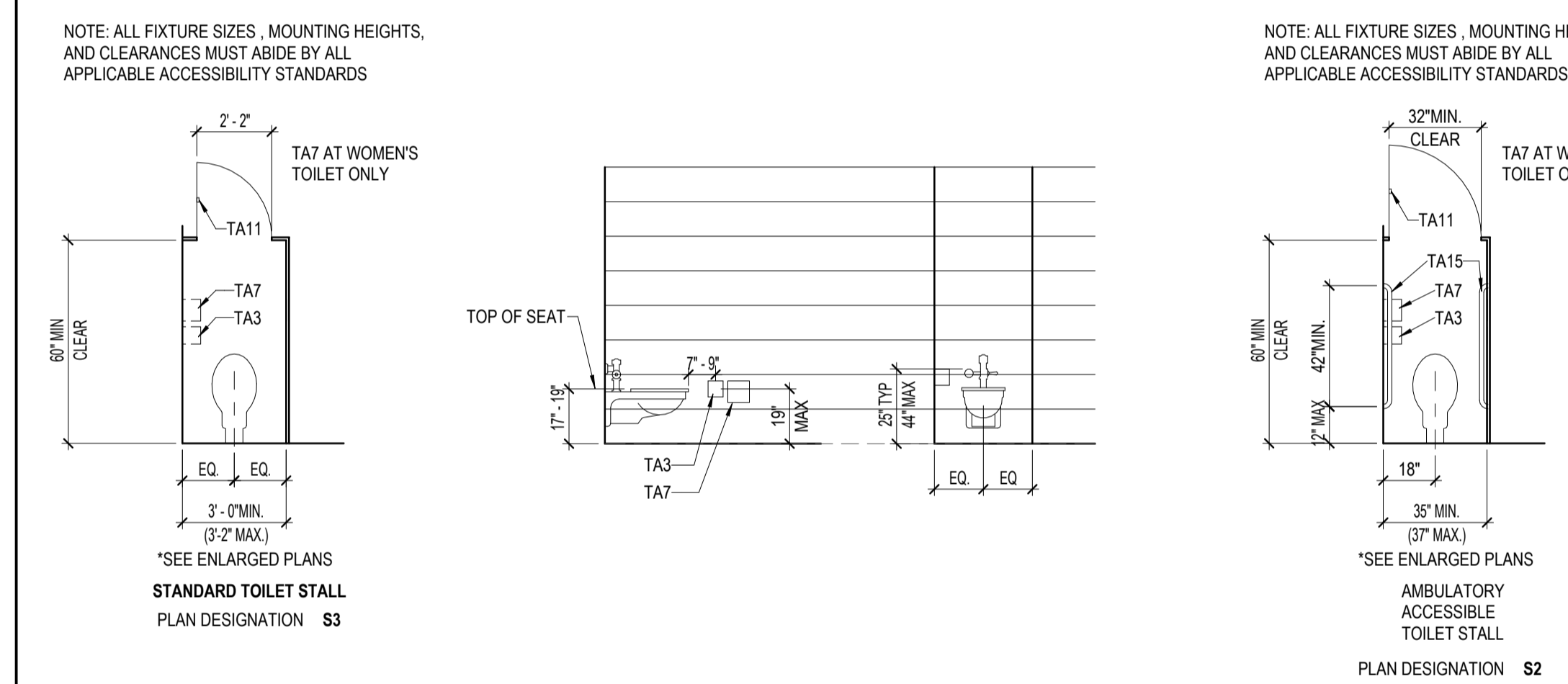
THEATER CONSULTANT
WJHW
601N. Network Blvd., Suite 150
San Antonio, TX, 78249
T 210-561-9800

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

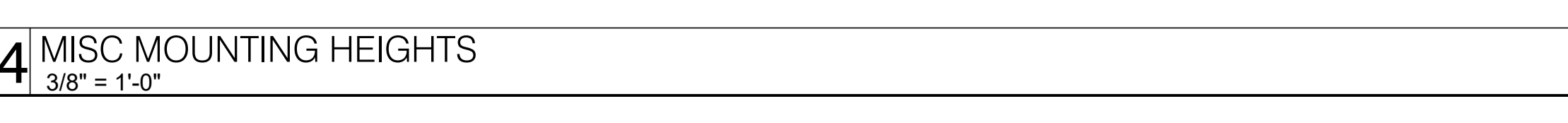
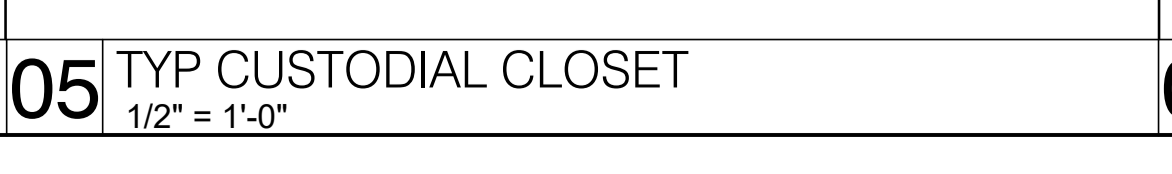
CONTRACTOR / CONST MNGR
FLINTCO
17115 San Pedro Ave, Suite 105
San Antonio, TX 78232
T 210-964-6939



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



GENERAL NOTES: 1. PRIOR TO CONSTRUCTION, THE CONTRACTOR MUST PROVIDE SUBMITTALS OF PROPOSED CONSTRUCTION MATERIALS FOR REVIEW BY THE DESIGN ENGINEER A MINIMUM OF 14 DAYS PRIOR TO REQUIRED USE.

11. ALL DISTURBED AREAS NOT TO BE PAVED OR LANDSCAPED ARE TO BE PREPARED AND HYDROMULCH OR SEEDED OR SOD INSTALLED FOR PERMANENT ESTABLISHMENT OF VEGETATION. PRIOR TO OPERATIONS, CONTRACTOR IS TO REPLACE AND CONSOLIDATE TOPSOIL TO A DEPTH OF 6" MINIMUM.

WATER NOTES: 1. ALL WATER LINES TO BE AWWA C306 HDPE DR. 17, WITH BLUE STRIPING. IF STRIPES ARE NOT PROVIDED, PIPES ARE TO BE WRAPPED WITH TWO ROLLS OF DETECTOR TAPE IN A CANDY CANE STYLE.

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

PBK ARCHITECTS logo and contact information for SAN ANTONIO, TX. Includes address, phone, and website. Also includes a vertical label 'WFAC Black Box Addition PKG 1' and 'ISSUE FOR PERMIT'.

DEMOLITION NOTES: 1. AREAS BENEATH REMOVED PAVEMENT SHALL BE CLEARED OF ALL LOOSE OR DISTURBED MATERIAL AND WATER. THE AREA SHALL BE PROOF-ROLLED AND MANUALLY COMPACTED OR REPLACED WITH SIMILAR MATERIALS PRIOR TO NEW PAVEMENT PLACEMENT PER SPECIFICATIONS.

5. PAINTING AND STRIPING: 5.A. EVERY 200 LINEAR FEET OF PAVEMENT OR EVERY 50 FT. CIRCUMFERENCE, THE CONTRACTOR SHALL PAINT STRIPING FOR THE PARKING AREA AS INDICATED ON THE PLAN.

DIMENSION CONTROL NOTES: 1. THE CONTRACTOR MAY OBTAIN AN ELECTRONIC COPY OF PROJECT PLANS FOR CONSTRUCTION PURPOSES, WITH THE PERMISSION OF THE OWNER, THE ELECTRONIC FILE AND INFORMATION GENERATED BY GESSNER ENGINEERING, FOR THIS PROJECT IS CONSIDERED BY GESSNER ENGINEERING, TO BE CONFIDENTIAL.

STORM NOTES: 1. ALL STORM SEWER IS PROPOSED, UNLESS OTHERWISE NOTED. 2. ALL STORM LINES TO BE EITHER REINFORCED CONCRETE PIPE (RCP), C443 ASTM C76, CLASS III AND CLASS IV OR HDPE.

GRADING NOTES: 1. ALL UNPAVED AREAS SHALL BE ADEQUATELY GRADED TO DRAIN AT A MINIMUM OF 2.0% SLOPE, UNLESS OTHERWISE NOTED, SO THAT NO PONDING OCCURS.

SANITARY SEWER NOTES: 1. ALL SANITARY SEWER LINES TO BE AWWA C906 HDPE, DR17, WITH GREEN STRIPING. IF STRIPES ARE NOT PROVIDED, PIPES ARE TO BE WRAPPED WITH TWO ROLLS OF DETECTOR TAPE IN A CANDY CANE STYLE.

GENERAL NOTES: 1. ALL CONSTRUCTION SHALL CONFORM TO THE CITY OF SAN ANTONIO STANDARD SPECIFICATIONS FOR CONSTRUCTION YEAR 2008, OR LATER. 2. NO EXTRA PAYMENT SHALL BE ALLOWED FOR WORK CALLED FOR ON THE PLANS, BUT NOT INCLUDED IN THE BID PROPOSAL.

18. CONTRACTOR SHALL NOT REMOVE OR ADJUST ANY VIA FACILITIES. THE CONTRACTOR MUST CONTACT VIA FOURTEEN DAYS PRIOR, FOR THE REMOVAL OF BENCHES, STOP POLES OR ANY OTHER VIA FACILITIES THAT MAY BE PRESENT.

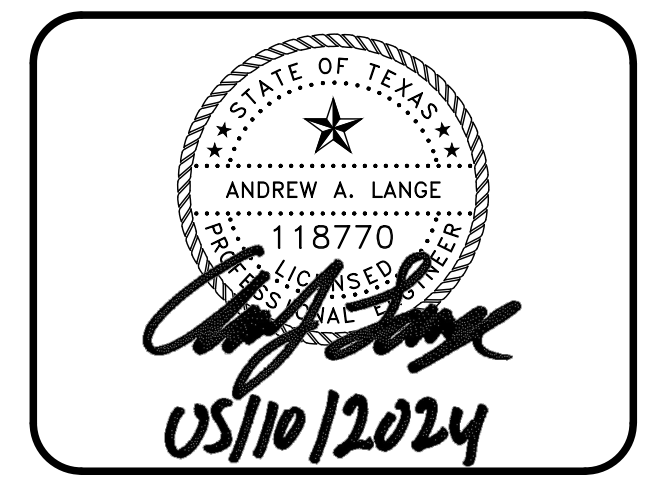
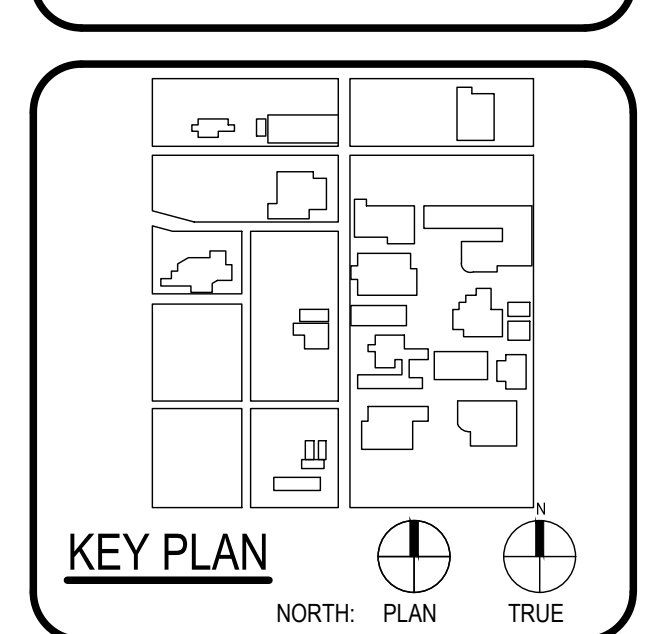
KEY PLAN showing site layout with NORTH and TRUE indicators. Includes a signature block for Andrew A. Lange, dated 05/10/2024, and a table for DRAWING HISTORY. Also includes a 'NOTE TO CONSULTANT' and 'ISSUE FOR PERMIT' stamp.

ALAMO COLLEGES logo and contact information. Includes a vertical label 'WFAC Black Box Addition PKG 1' and 'ISSUE FOR PERMIT'. Also includes a large 'C100' label at the bottom right.



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
STRUCTURAL ENGINEER	BA & ARCHITECTS
Mechanical Engineering	BA & ARCHITECTS
Electrical Engineering	BA & ARCHITECTS
PLUMBING	BA & ARCHITECTS
MECHANICAL	BA & ARCHITECTS
TELECOM	BA & ARCHITECTS

WFAC Black Box Addition PKG 1
 1801 Martin Luther King Dr.,
 San Antonio, TX 78203
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CLIENT	Alamo Colleges
DATE	PROJECT NUMBER
	230462

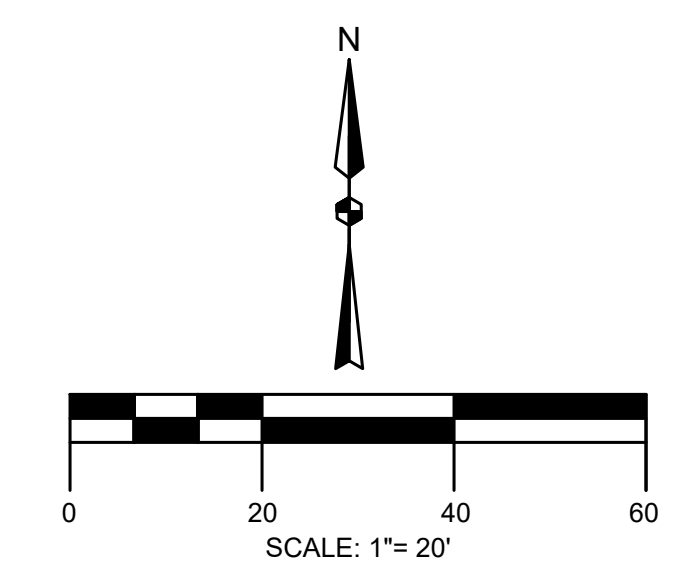
No.	Description	Date

ISSUE FOR PERMIT

BUILDING NUMBER

SITE PLAN

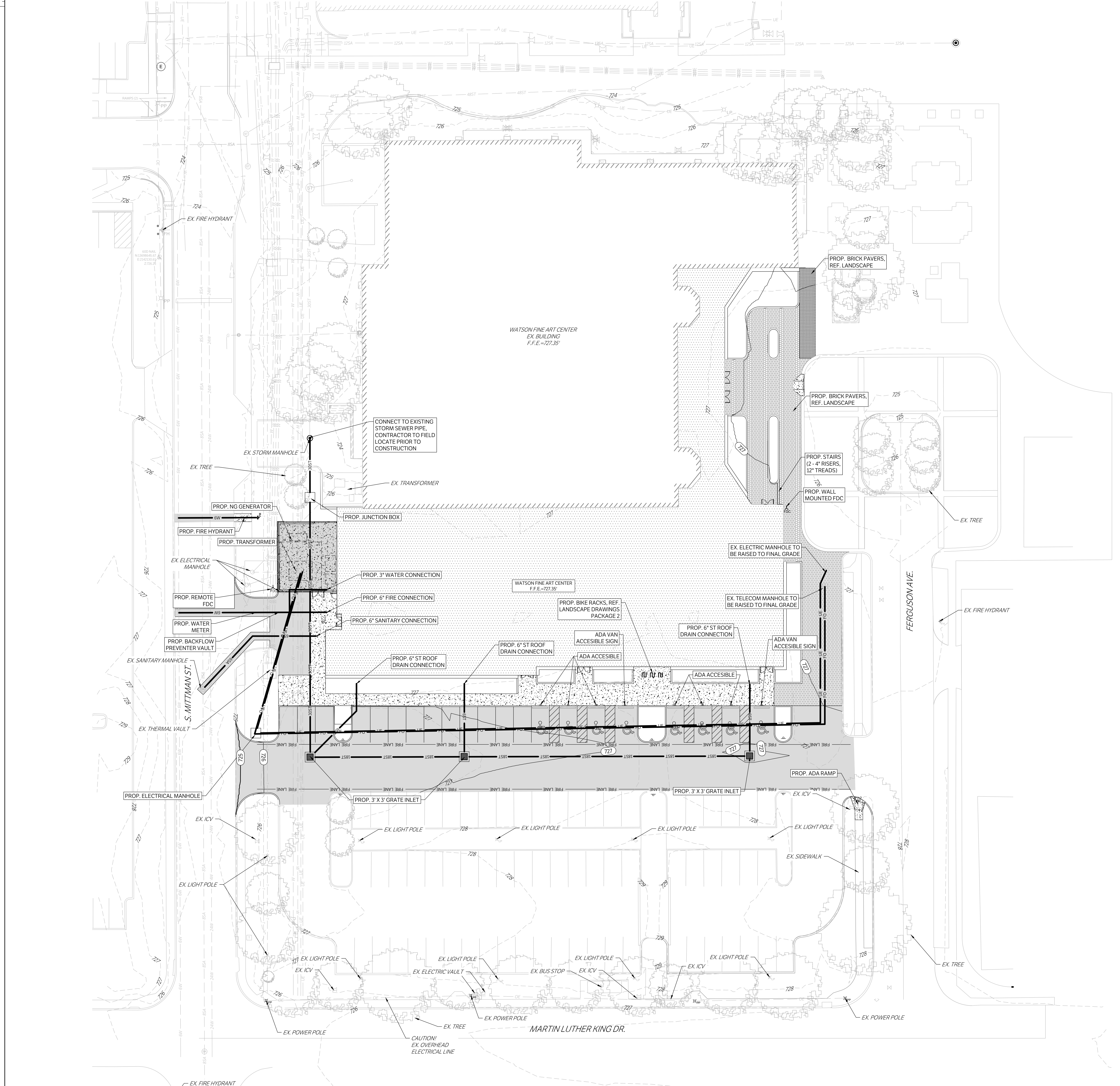
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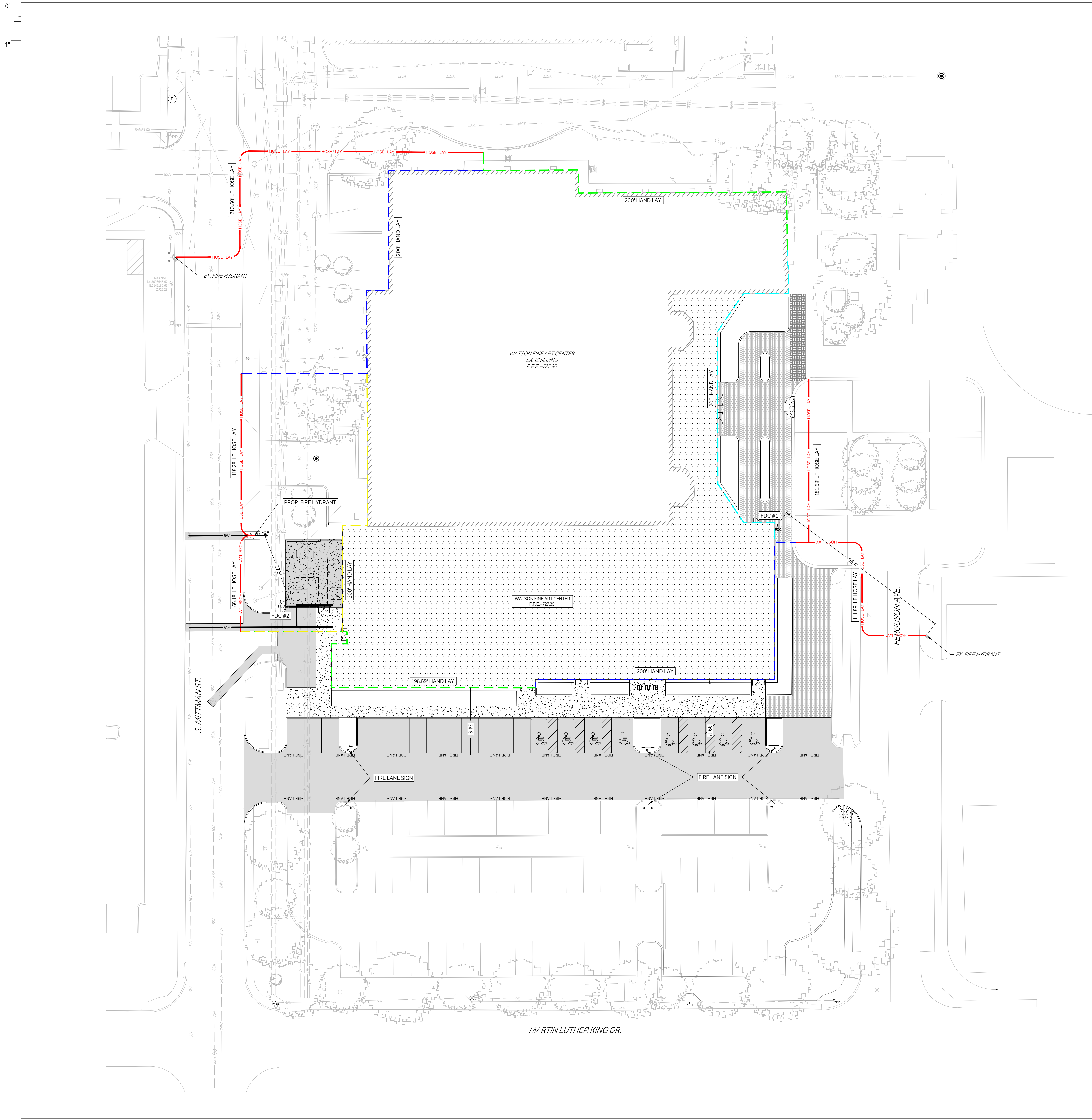
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[Symbol]	EXISTING PAVEMENT EDGE
[Symbol]	PROPERTY LINE
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[Symbol]	EX. PROP. FIBER OPTIC
[Symbol]	EX. PROP. OVERHEAD ELECTRIC
[Symbol]	EX. PROP. FIRE HYDRANT
[Symbol]	EX. PROP. WATER METER

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	5982.33	43074.28	49056.61
PROPOSED	3195.99	45860.62	49056.61
IMPERVIOUS INCREASE		2786.34	



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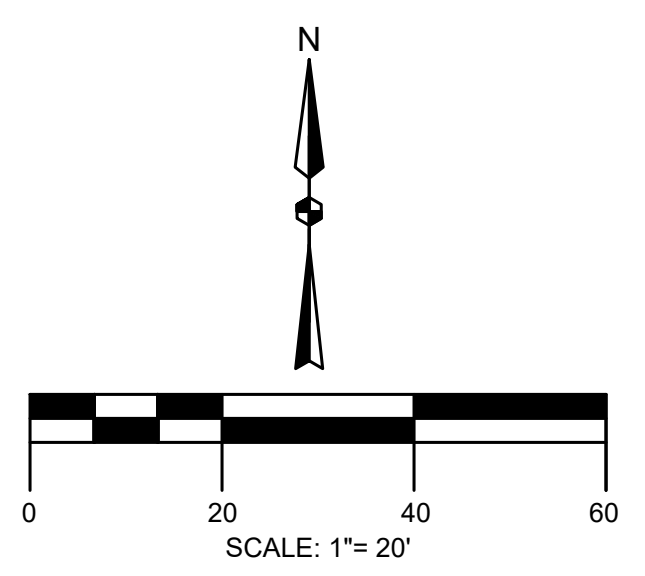



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[Symbol]	EX. PROP. WATER METER

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





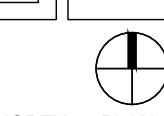
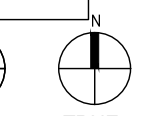
ARCHITECT SAN ANTONIO PBK Architects, Inc.
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 San Antonio, TX 78216
 210-829-0123 P
 210-829-0578 F
 TX Firm BR 1608


WFAC Black Box Addition PKG 1
 1801 Martin Luther King Dr.,
 San Antonio, TX 78203
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ALAMO COLLEGES
 ST. PHILLIP'S COLLEGE

KEY PLAN



ANDREW A. LANGE
 118770
 05/10/2024

CLIENT		
Alamo Colleges	PROJECT NUMBER	
DATE	230462	
DRAWING HISTORY		
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ISSUE FOR PERMIT		
BUILDING NUMBER		

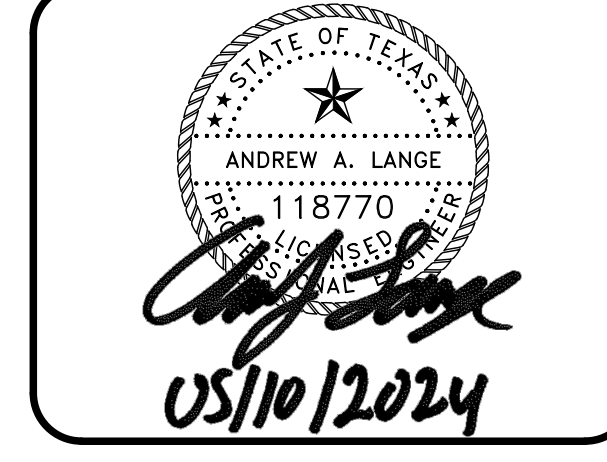
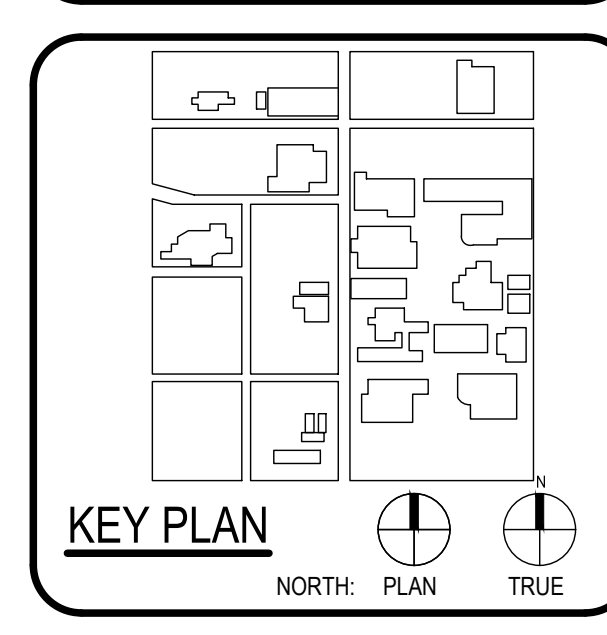
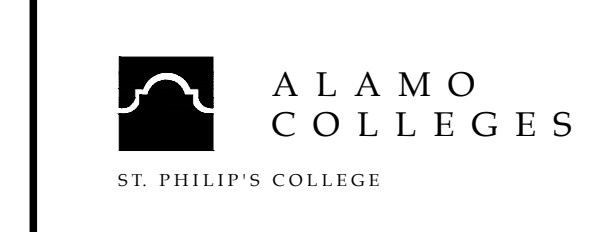
SITE FIRE PLAN

C201



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
STRUCTURAL ENGINEER	BA & ARCHITECTS
Mechanical Engineering	LUNDY & HARRIS ENGINEERING
Electrical Engineering	LUNDY & HARRIS ENGINEERING
PLUMBING	LUNDY & HARRIS ENGINEERING
MECHANICAL	LUNDY & HARRIS ENGINEERING
TELECOMMUNICATIONS	LUNDY & HARRIS ENGINEERING
WATER	LUNDY & HARRIS ENGINEERING
SEWER	LUNDY & HARRIS ENGINEERING

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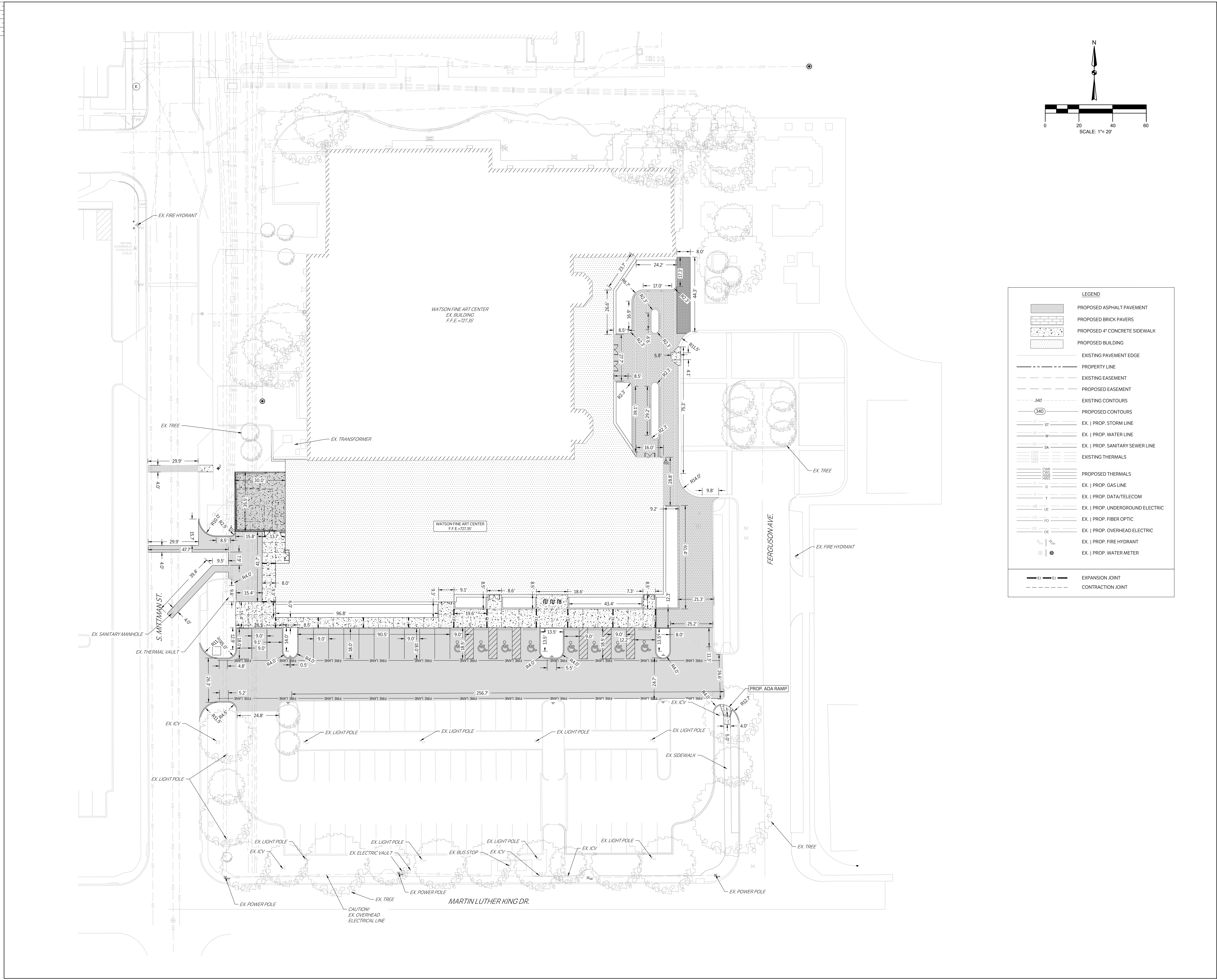


CLIENT		
Alamo Colleges		
DATE	PROJECT NUMBER	
	230462	
DRAWING HISTORY		
No.	Description	Date

ISSUE FOR PERMIT
 BUILDING NUMBER

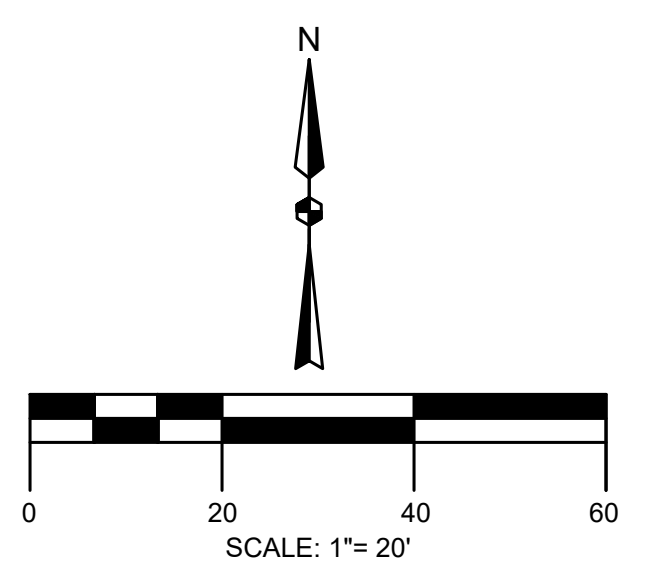
DIMENSION CONTROL & PAVING PLAN

C202



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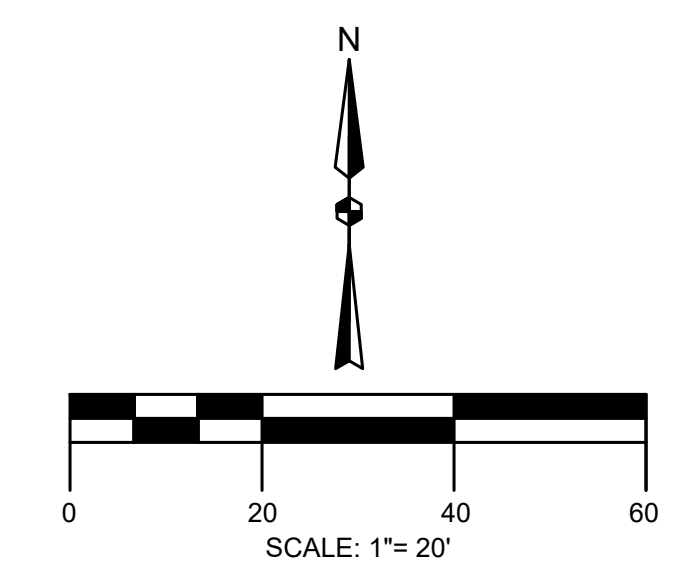
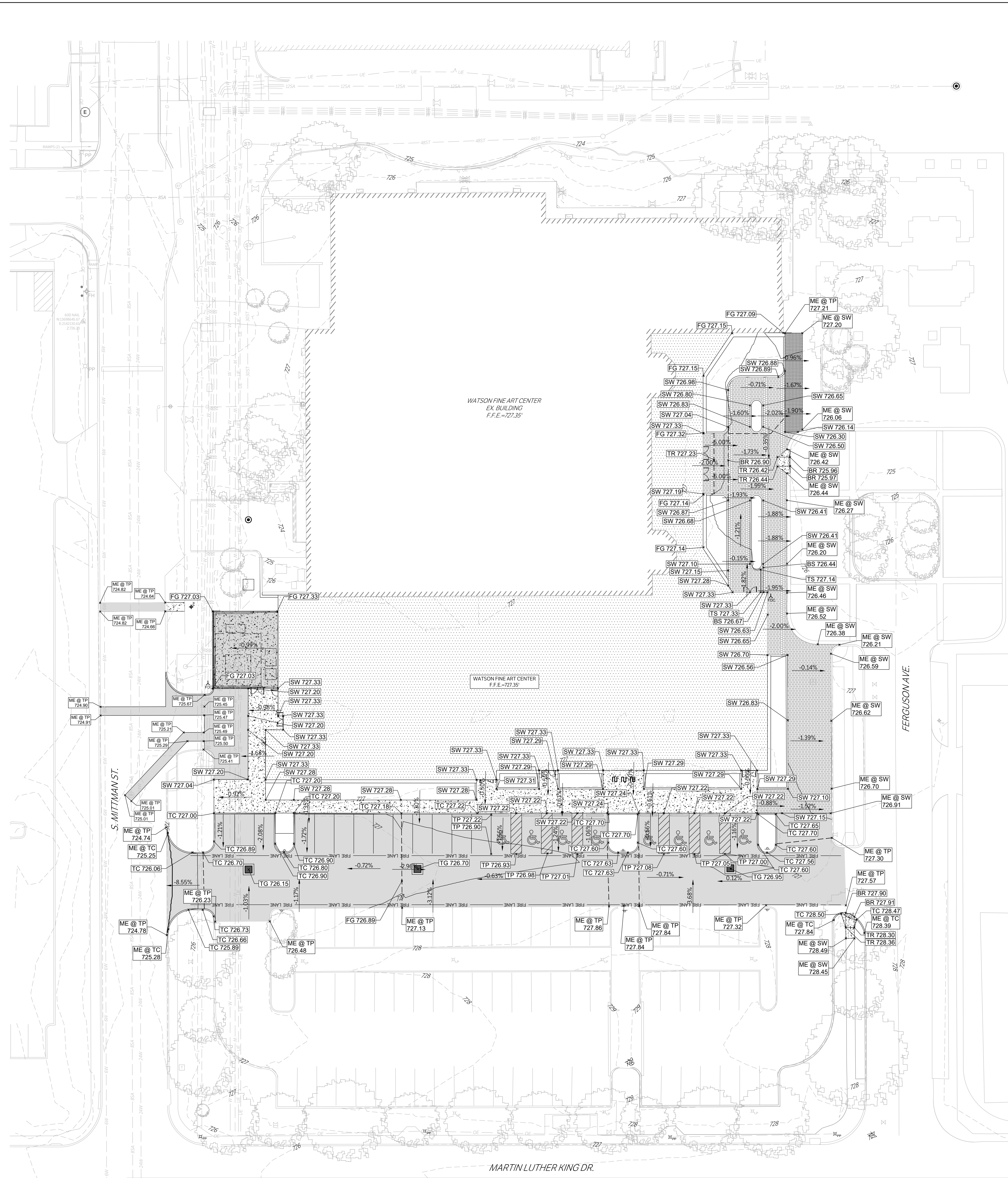
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[Line]	CONTRACTION JOINT



ISSUE FOR PERMIT

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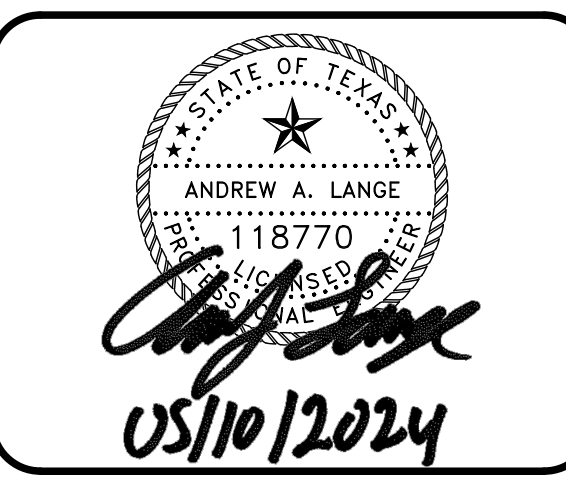
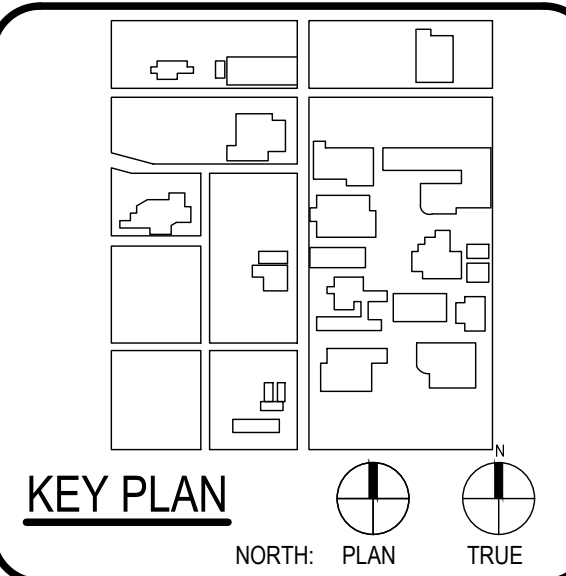
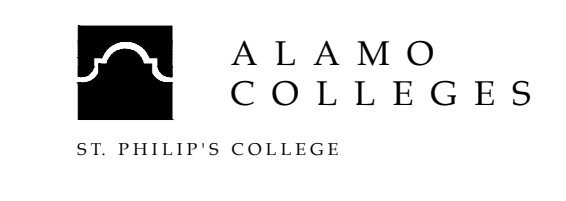
- 340 EXISTING CONTOURS
- (340) PROPOSED CONTOURS
- PROPERTY LINE
- PROPOSED SWALE WITH DIRECTION OF FLOW ARROWS
- GRADE BREAK
- BR PROPOSED FINISHED GRADE AT BOTTOM OF RAMP
- BS PROPOSED FINISHED GRADE AT BOTTOM OF STAIR
- BW PROPOSED FINISHED GRADE AT BASE OF WALL
- FG PROPOSED FINISHED GRADE ELEVATION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



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 SAN ANTONIO, TX 78205
 210-492-1111
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WFAC Black Box Addition PKG 1



CLIENT	Alamo Colleges
DATE	PROJECT NUMBER
	230462

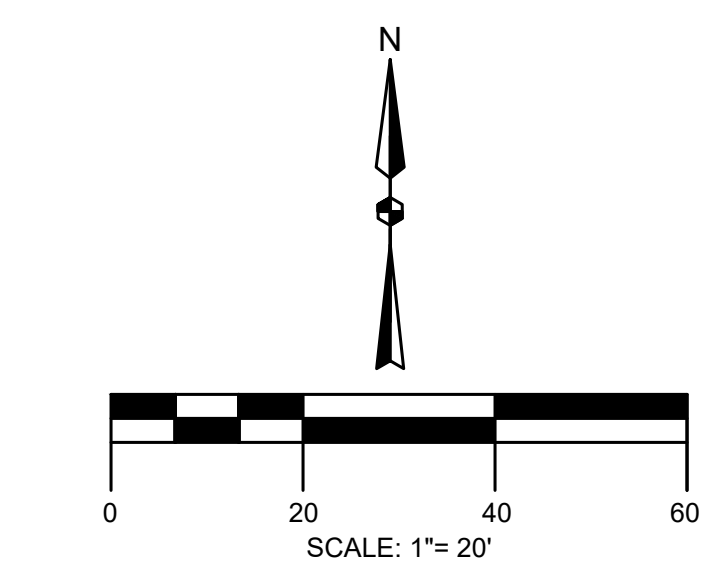
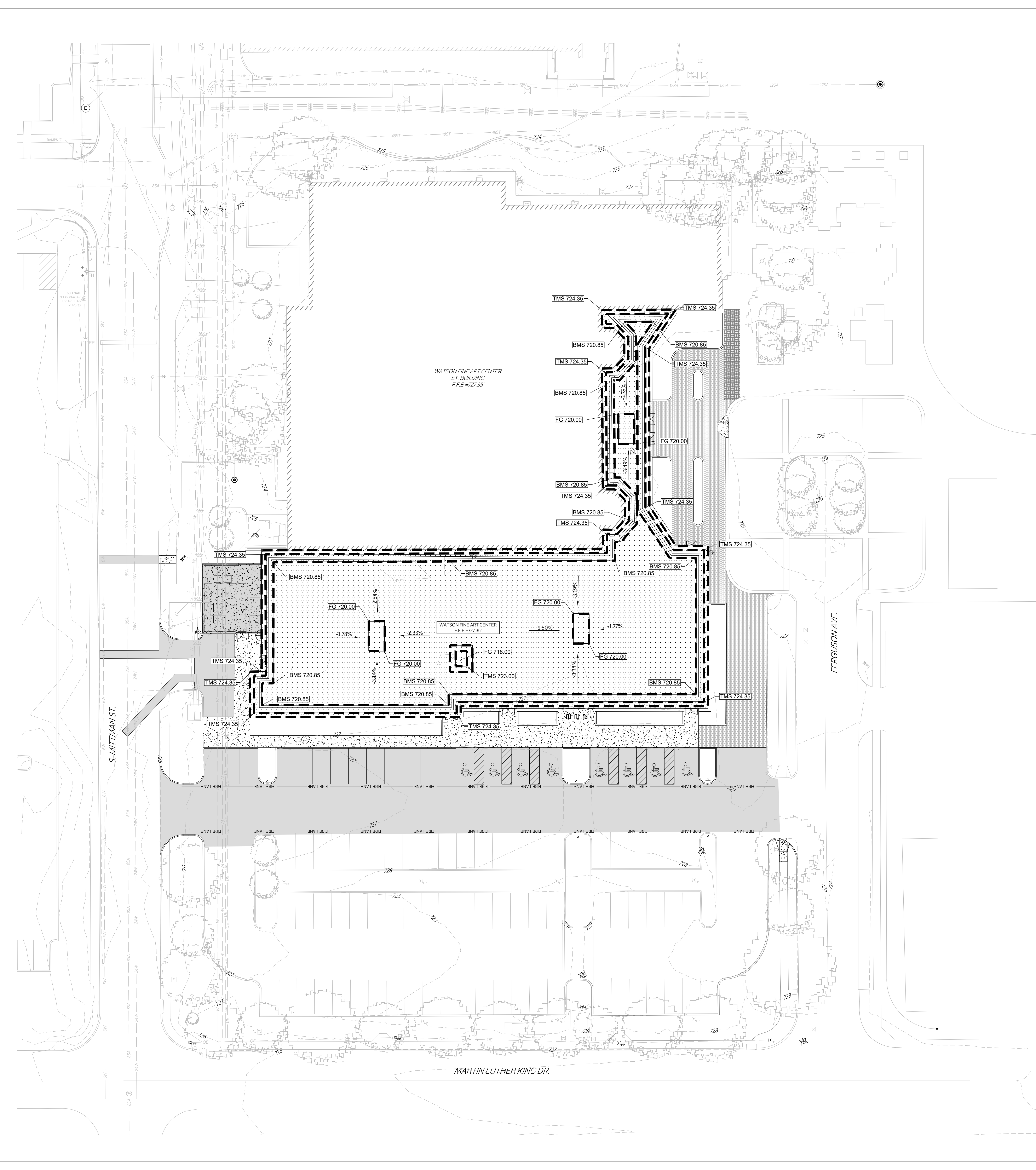
No.	Description	Date

ISSUE FOR PERMIT

BUILDING NUMBER

GRADING PLAN

C400



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

REGISTERED PROFESSIONALS

ARCHITECT	BA & ARCHITECTS	210-829-0123
CIVIL	210-829-0123	
LANDSCAPE	210-829-0123	
PLANNING	210-829-0123	
ENGINEERING	210-829-0123	
MECHANICAL	210-829-0123	
ELECTRICAL	210-829-0123	
PLUMBING	210-829-0123	
MECHANICAL	210-829-0123	
PLUMBING	210-829-0123	

WFAC Black Box Addition PKG 1

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

ISSUE FOR PERMIT

ALAMO COLLEGES
 ST. PHILIP'S COLLEGE

KEY PLAN

NORTH PLAN TRUE

05/10/2024

CLIENT	Alamo Colleges
DATE	PROJECT NUMBER
	230462

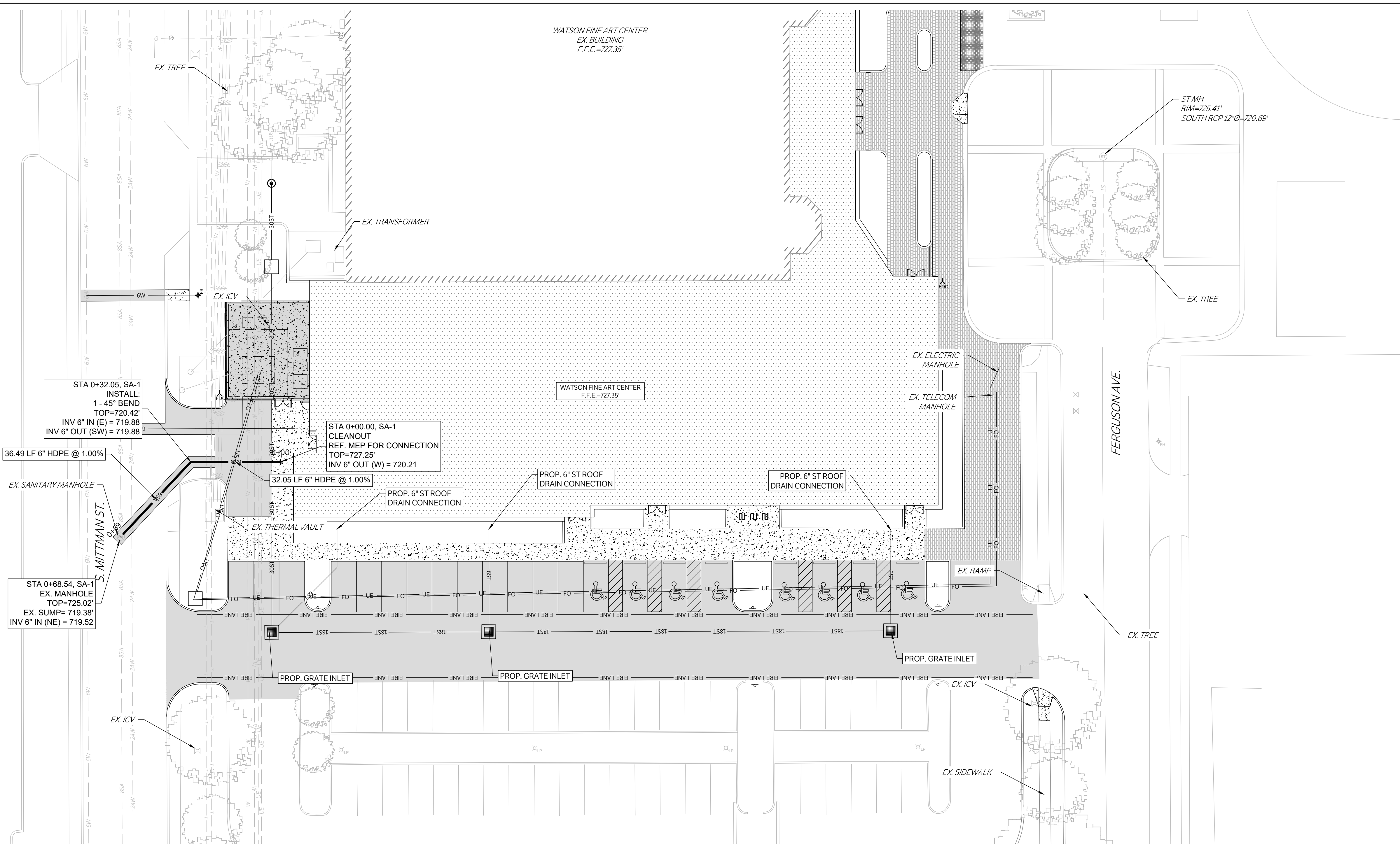
No.	Description	Date

ISSUE FOR PERMIT

BUILDING NUMBER

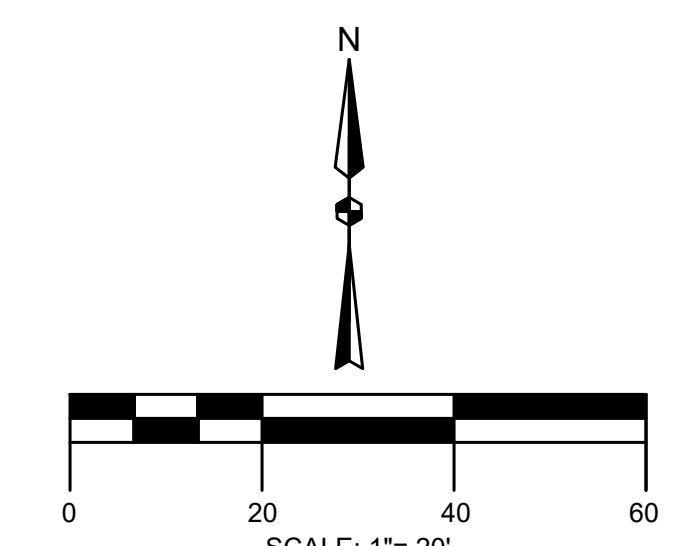
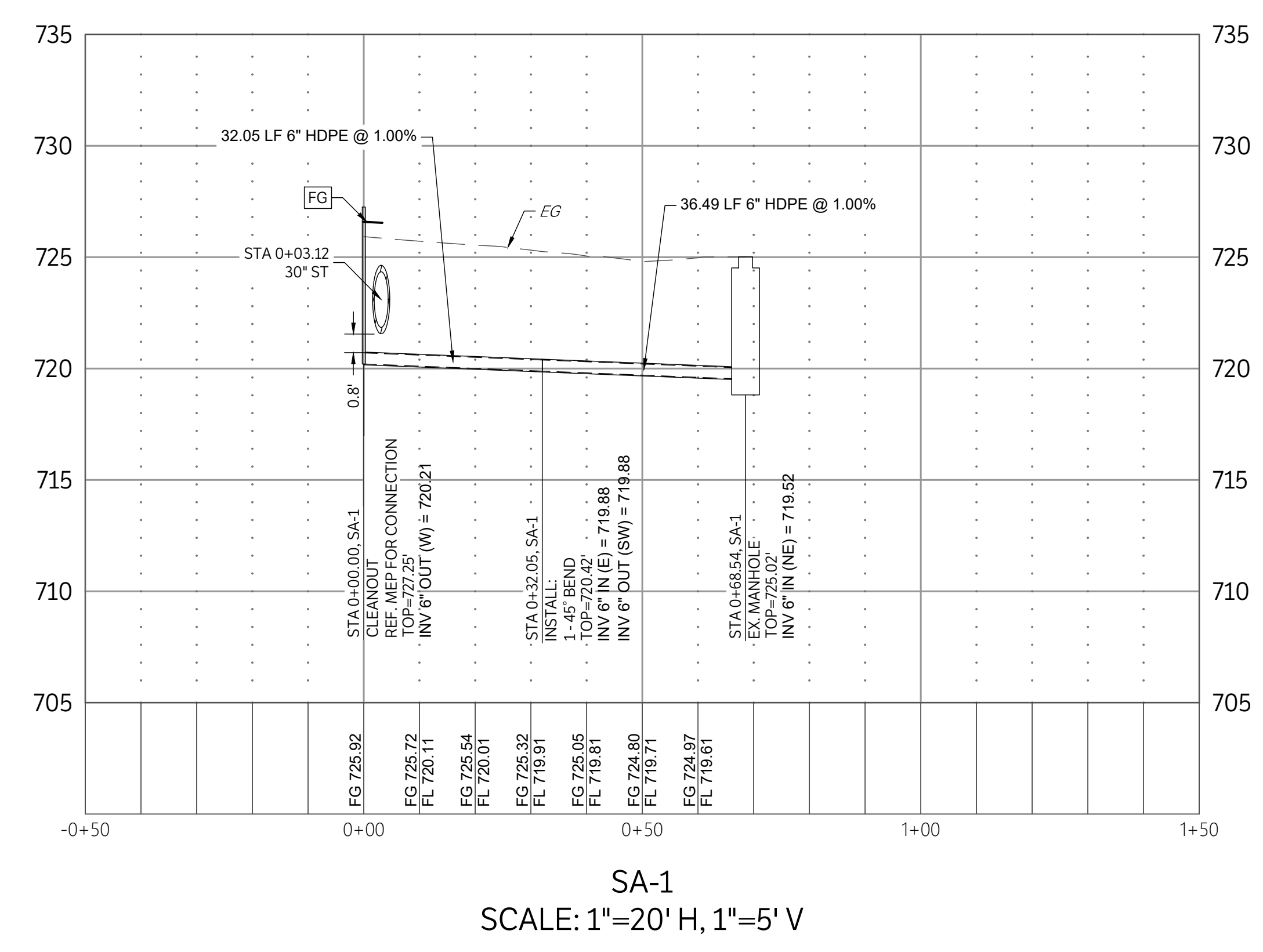
CRAWLSPACE

C401



LEGEND

- PROPOSED ASPHALT PAVEMENT
- PROPOSED BRICK PAVERS
- 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

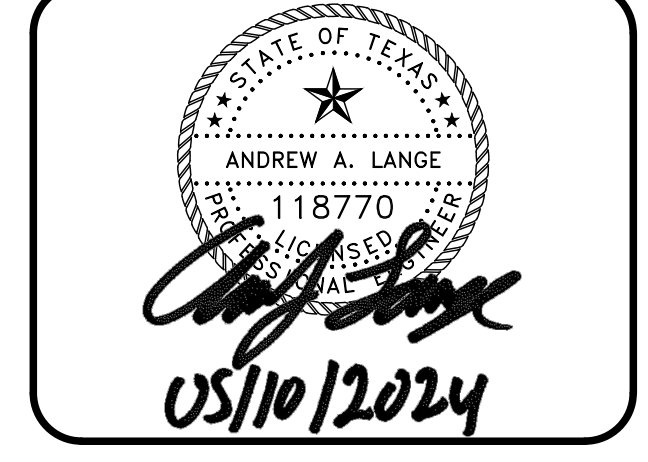
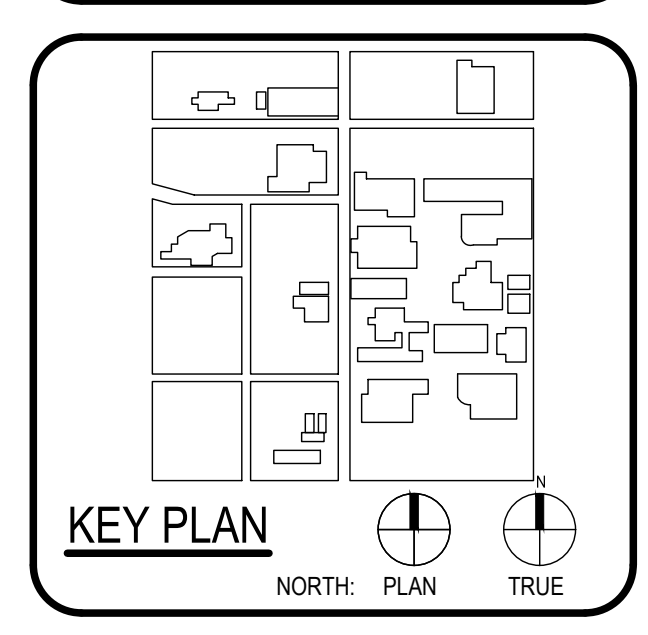


ARCHITECT	PBK Architects, Inc.
SAN ANTONIO 601 N.W. Loop 410, Suite 400 San Antonio, TX 78216 210-829-0123 P 210-829-0578 F TX Firm BR 1608	
ASSOCIATE ARCHITECT	BA ARCHITECTS
2100 S. W. Loop 410, Suite 400 San Antonio, TX 78216 210-829-0123 P 210-829-0578 F	
DESIGNER	BA ARCHITECTS
2100 S. W. Loop 410, Suite 400 San Antonio, TX 78216 210-829-0123 P 210-829-0578 F	
LANDSCAPE ARCHITECT	BA ARCHITECTS
2100 S. W. Loop 410, Suite 400 San Antonio, TX 78216 210-829-0123 P 210-829-0578 F	
ENGINEER	LUNDY & HARRIS ENGINEERING
1100 S. W. Loop 410, Suite 400 San Antonio, TX 78216 210-829-0123 P 210-829-0578 F	
PROJECT MANAGER	BA ARCHITECTS
2100 S. W. Loop 410, Suite 400 San Antonio, TX 78216 210-829-0123 P 210-829-0578 F	
PROFESSOR	BA ARCHITECTS
2100 S. W. Loop 410, Suite 400 San Antonio, TX 78216 210-829-0123 P 210-829-0578 F	
REGISTERED PROFESSIONAL	BA ARCHITECTS
2100 S. W. Loop 410, Suite 400 San Antonio, TX 78216 210-829-0123 P 210-829-0578 F	

WFAC Black Box Addition PKG 1

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

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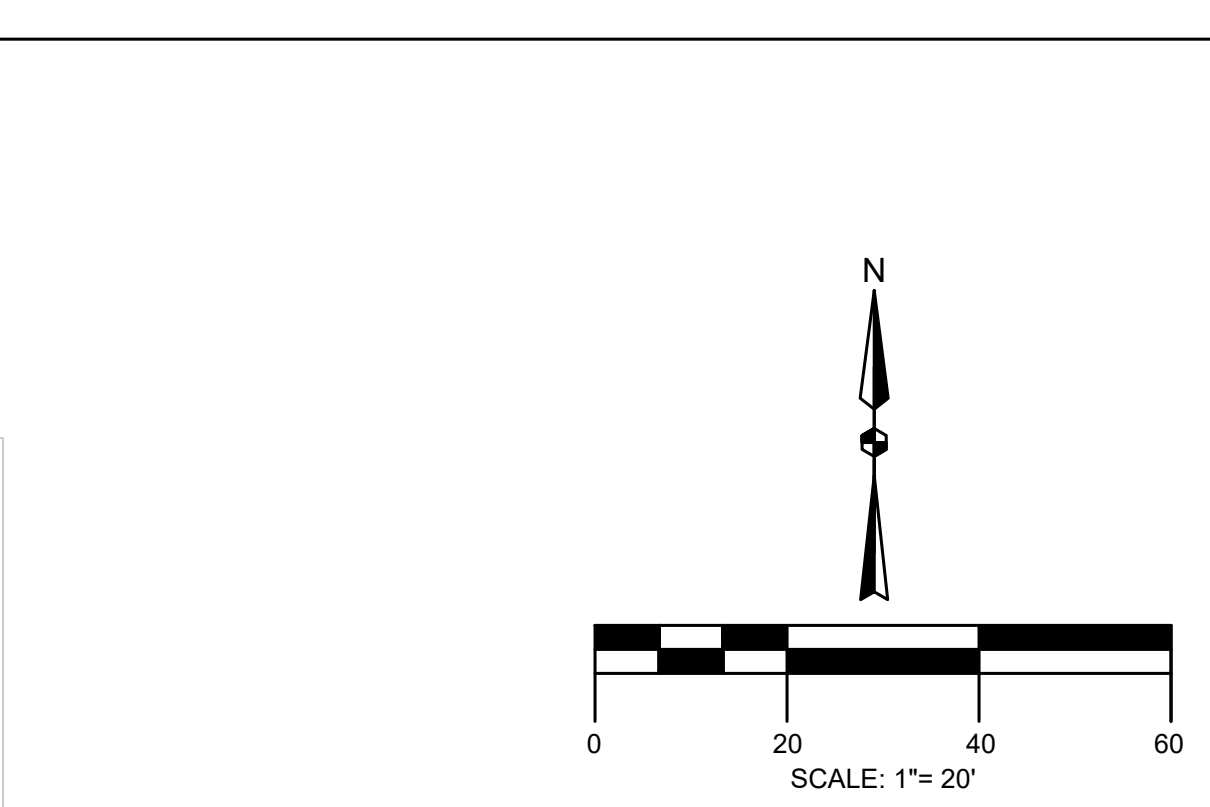
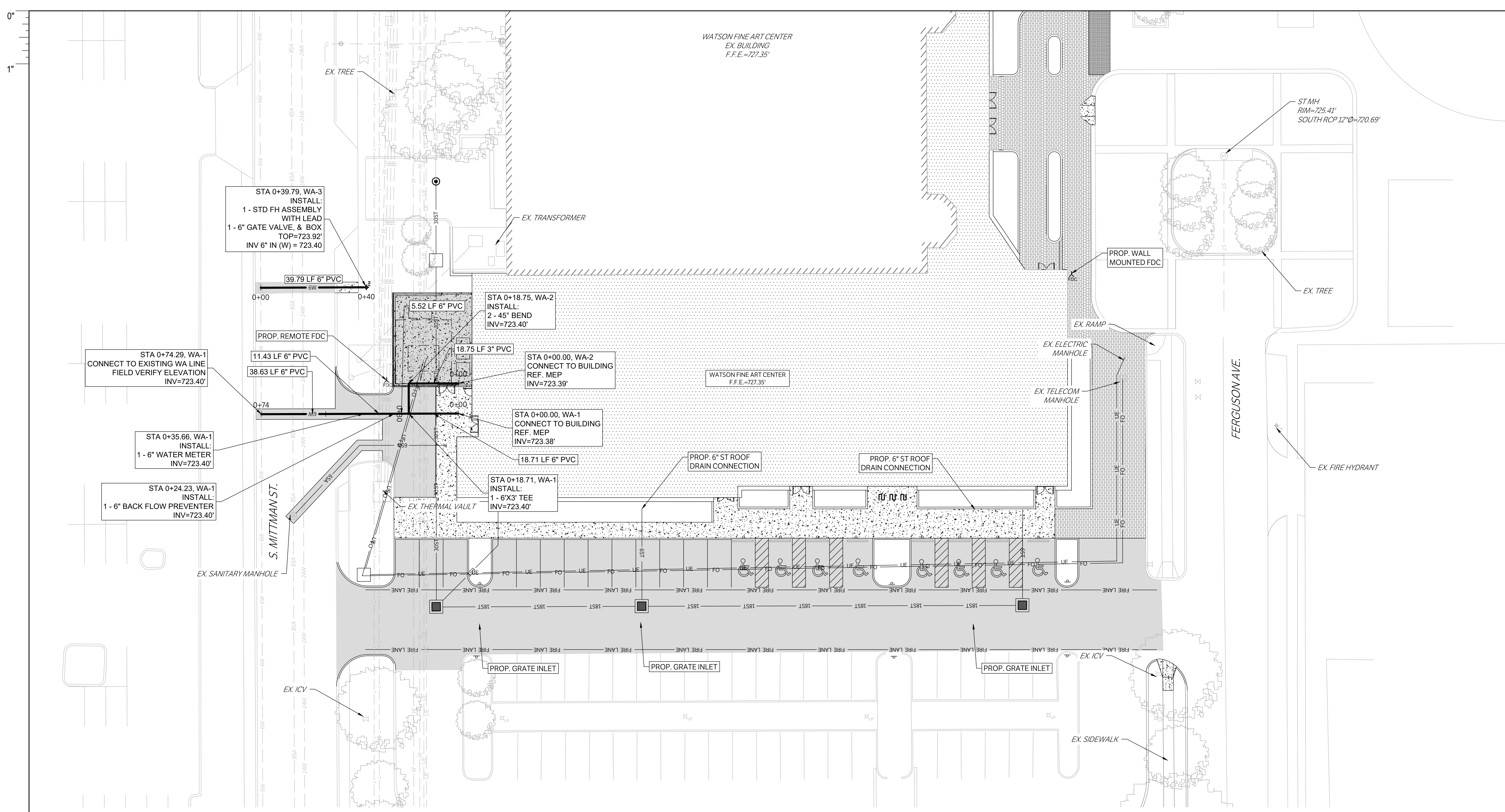
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DATE	PROJECT NUMBER	
	230462	
DRAWING HISTORY		
No.	Description	Date

ISSUE FOR PERMIT

BUILDING NUMBER

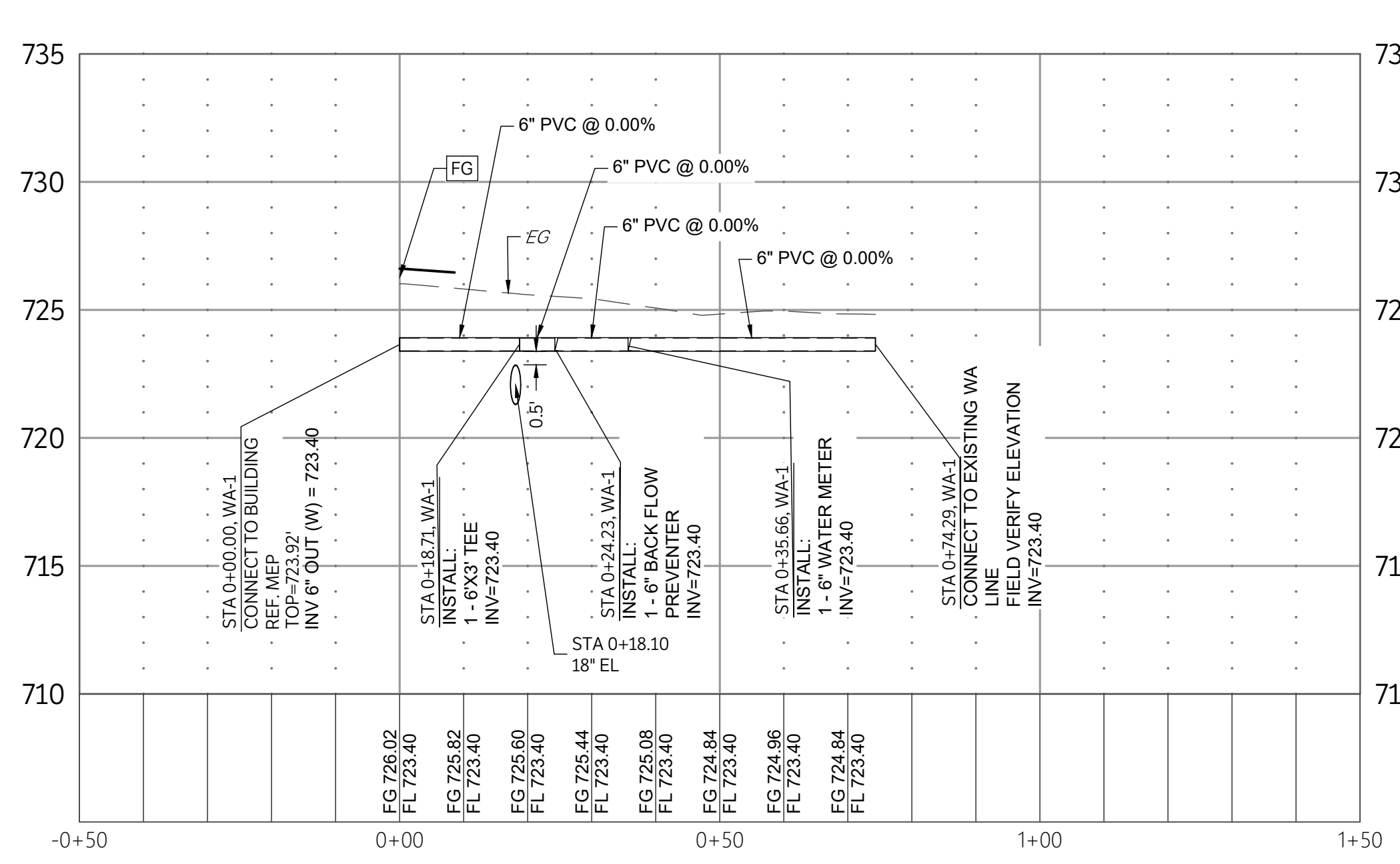
SANITARY PLAN & PROFILES

C900

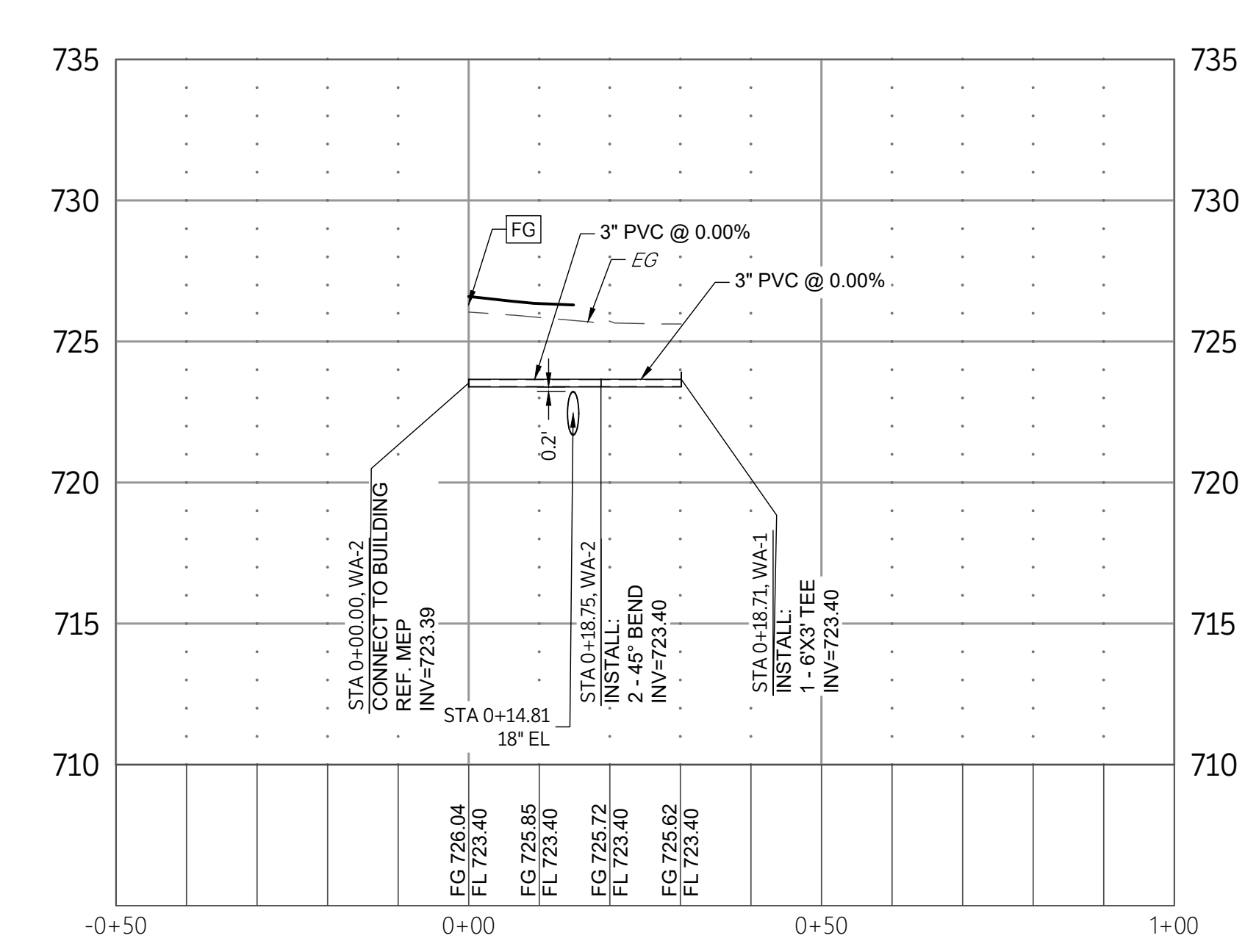


LEGEND

	PROPOSED ASPHALT PAVEMENT
	PROPOSED BRICK PAVERS
	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



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



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

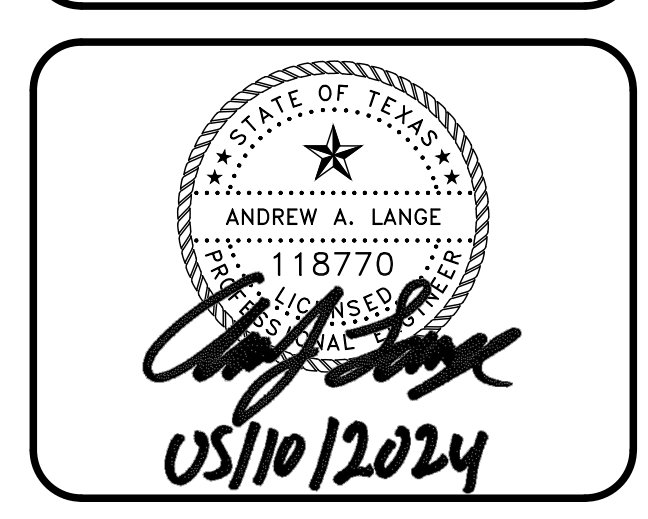
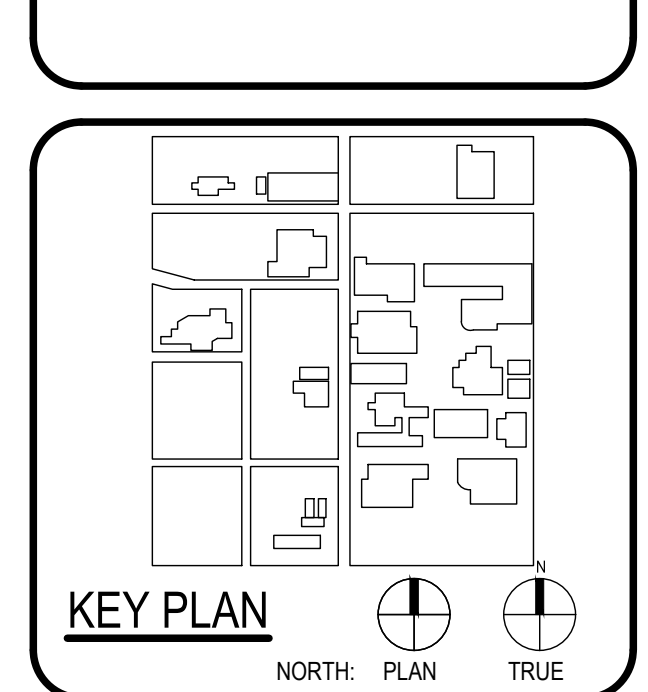
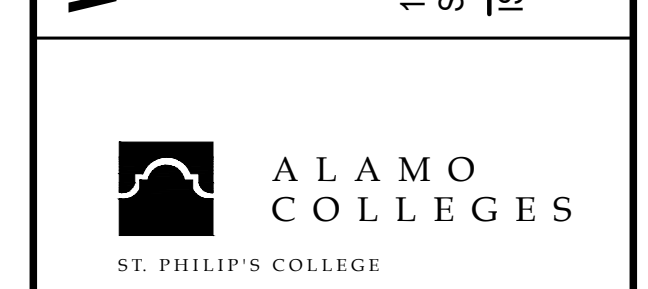


ARCHITECT: SAN ANTONIO, TX
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 San Antonio, TX 78216
 210-829-0123 P
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 TX Firm BR 1608

WFAC Black Box Addition PKG 1

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

ISSUE FOR PERMIT



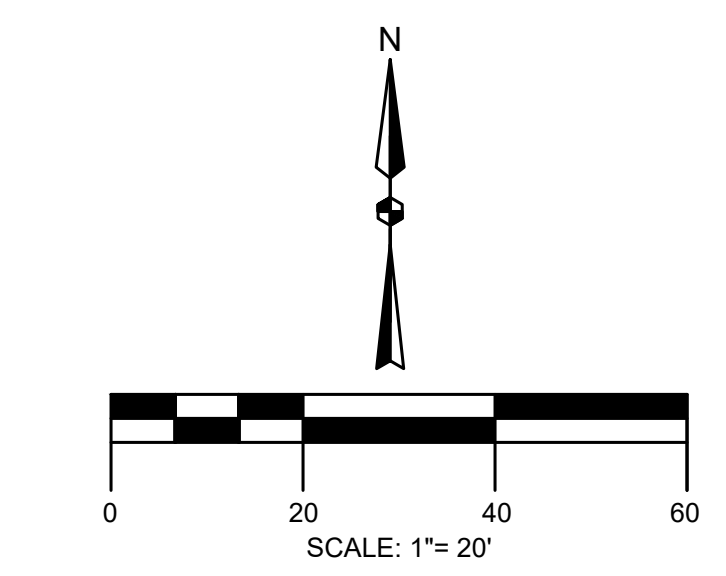
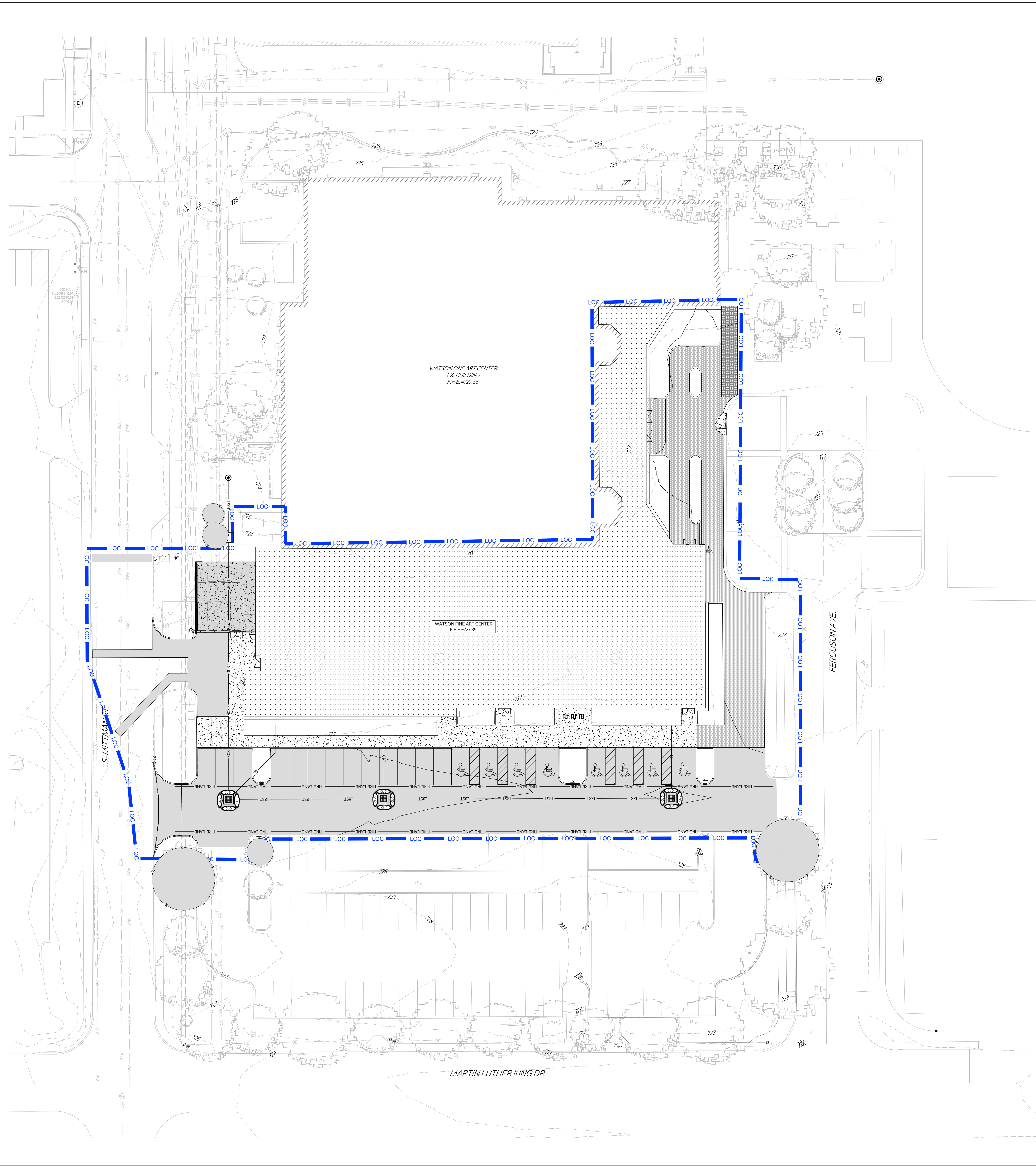
CLIENT: Alamo Colleges		
DATE: 5/6/2024	PROJECT NUMBER: 230462	
DRAWING HISTORY		
No.	Description	Date

ISSUE FOR PERMIT
 BUILDING NUMBER

WATER PLAN & PROFILES

C1000

ISSUE FOR PERMIT



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

EROSION CONTROL NOTES:

OWNER INFORMATION: ST PHILLIPS COLLEGE

PROJECT NAME: ST PHILLIPS COLLEGE WATSON FINE ARTS CENTER BLACK BOX ADDITION

PROJECT LOCATION: ST PHILLIPS COLLEGE MARTIN LUTHER KING DR

LAND USE: HIGHER EDUCATION

LAND COVER: >90% IMPERVIOUS

SCS CURVE NUMBER: 95

RECEIVING WATERS: SALADO CREEK

SEGMENT NO. OF CLASSIFIED WATER BODY: SALADO CREEK

BASIN NAME: SAN ANTONIO RIVER

SOIL INFORMATION: HYDROLOGIC SOIL GROUP: D

POST DEVELOPED SITE CONDITIONS: LAND USE: HIGHER EDUCATION

NATURE OF ACTIVITIES: ACADEMIC BLDG

- SEQUENCE OF MAJOR ACTIVITIES**
- INSTALL SILT FENCE AT STOCK PILE AREAS
 - CLEARING, GRADING, GENERAL CONSTRUCTION SITE.
 - INSTALL FILTER ELEMENTS IMMEDIATELY AFTER DISTURBANCE AND/OR GRADING OPERATIONS.
 - AFTER ESTABLISHMENT OF GRASS, REMOVE ALL TEMPORARY EROSION CONTROL.
 - SEED ALL AREAS NOT HAVING PERMANENT GRASS COVERAGE AFTER APPROVAL BY COUNTY INSPECTOR.
- GENERAL EROSION CONTROL NOTES**
- ALL UTILITIES AND SERVICE LINES SHOWN ARE TAKEN FROM RECORD INFORMATION SUPPLIED BY THE UTILITY OWNER OR HORIZONTALLY LOCATED BY INDEPENDENT LOCATORS. CONTRACTOR IS RESPONSIBLE TO REPORT ANY CONFLICTS BETWEEN PLAN AND ACTUAL CONDITIONS PRIOR TO CONSTRUCTION. OWNER AND ENGINEER SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF INFORMATION OR DATA RELIED ON TO DETECT 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.
 - CONTRACTOR TO CONTACT TEXAS 811 AND LOCAL UTILITY PROVIDERS TO LOCATE EXISTING UTILITIES PRIOR TO CONSTRUCTION. CONTACT GESSNER ENGINEERING IF CONFLICTS OCCUR.
 - ALL DISTURBED AREAS NOT TO BE PAVED ARE TO HAVE ESTABLISHMENT OF GRASS.
 - 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.
 - 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.
 - 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.
 - THE CONTRACTOR WILL REMOVE ALL EXCESS SOIL FROM CONSTRUCTION VEHICLES PRIOR TO EXITING THE SITE.
 - THE CONTRACTOR SHALL UNDERTAKE PROPER METHODS TO REDUCE DUST GENERATION FROM THE SITE.
 - THE CONTRACTOR MUST COMPLY WITH FEDERAL, STATE, AND LOCAL REGULATIONS REGARDING SEDIMENTS AND EROSION CONTROL.
 - A COPY OF THIS PLAN MUST BE KEPT AT THE CONSTRUCTION FACILITY DURING THE ENTIRE CONSTRUCTION PERIOD.
 - ALL FINISHED GRADES ARE TO BE HYDRO-MULCHED, SPOT SOODED OR SEEDED AND WATERED UNTIL GROWTH IS ESTABLISHED.
 - CONTRACTOR IS RESPONSIBLE TO FILE THE NOTICE OF INTENT AND NOTICE OF TERMINATION WITH AUTHORITY HAVING JURISDICTION.

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

ALAMO COLLEGES
 ST. PHILLIP'S COLLEGE

KEY PLAN

CLIENT	
Alamo Colleges	PROJECT NUMBER
DATE	230462

No.	Description	Date

ISSUE FOR PERMIT

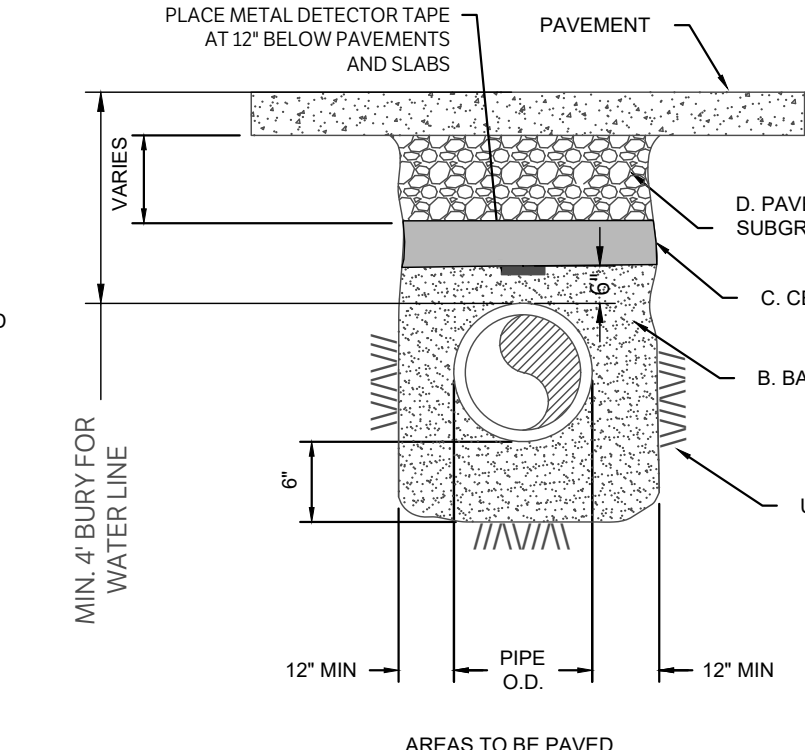
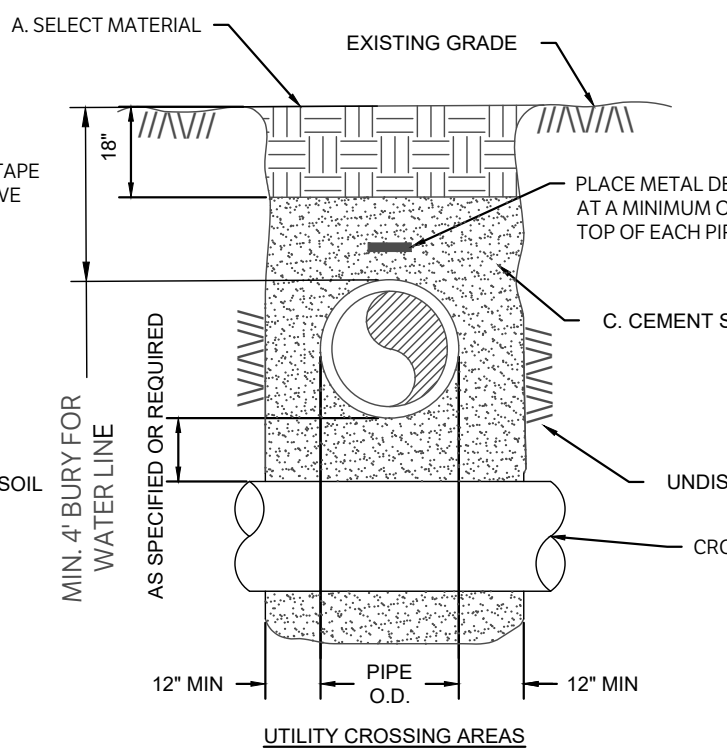
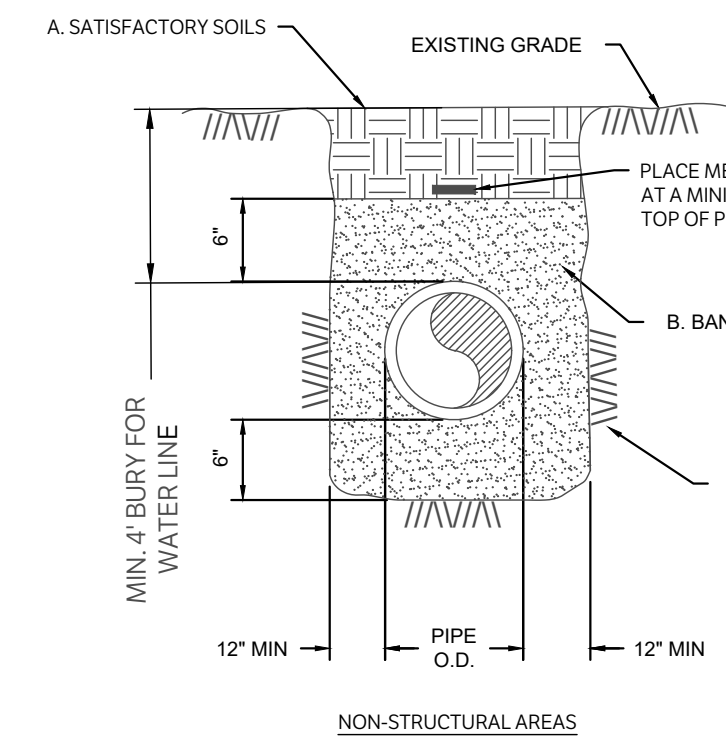
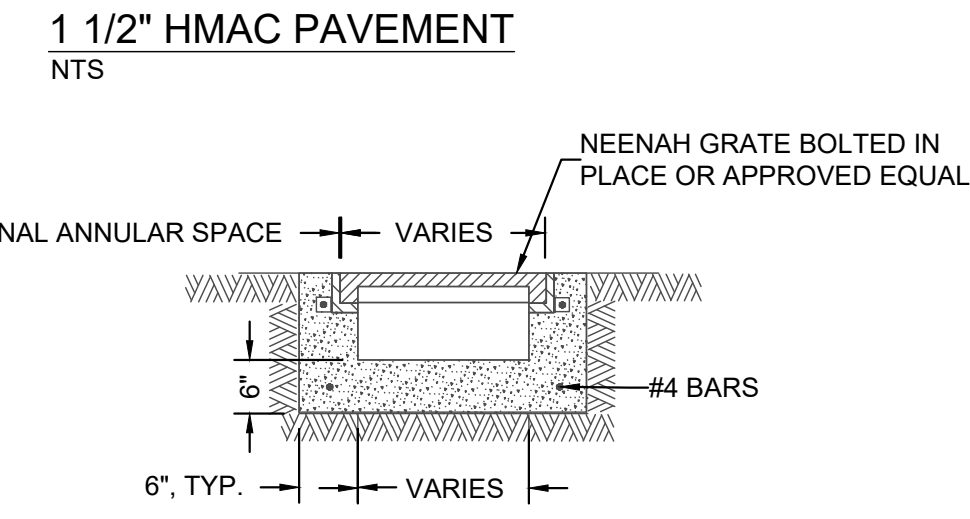
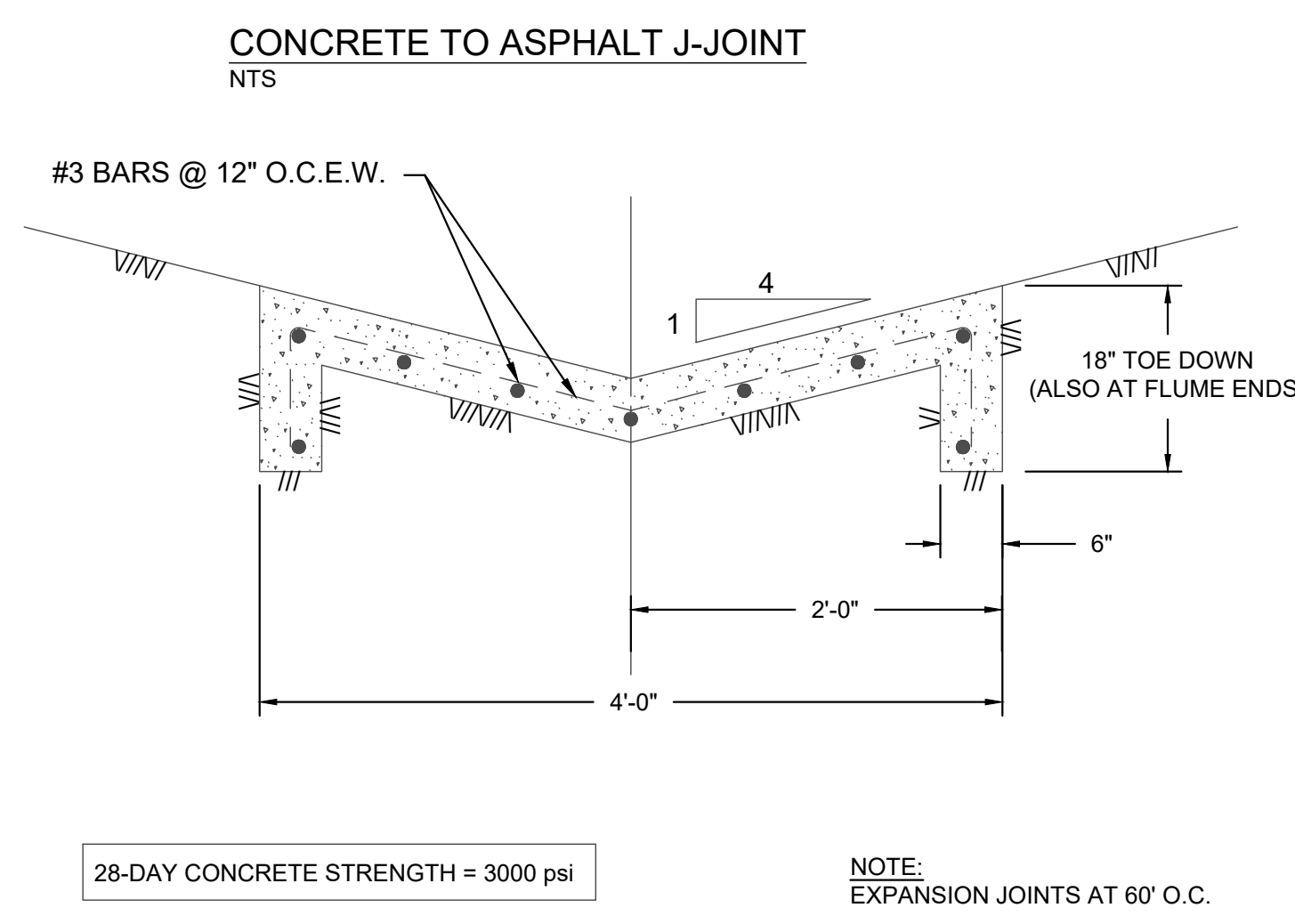
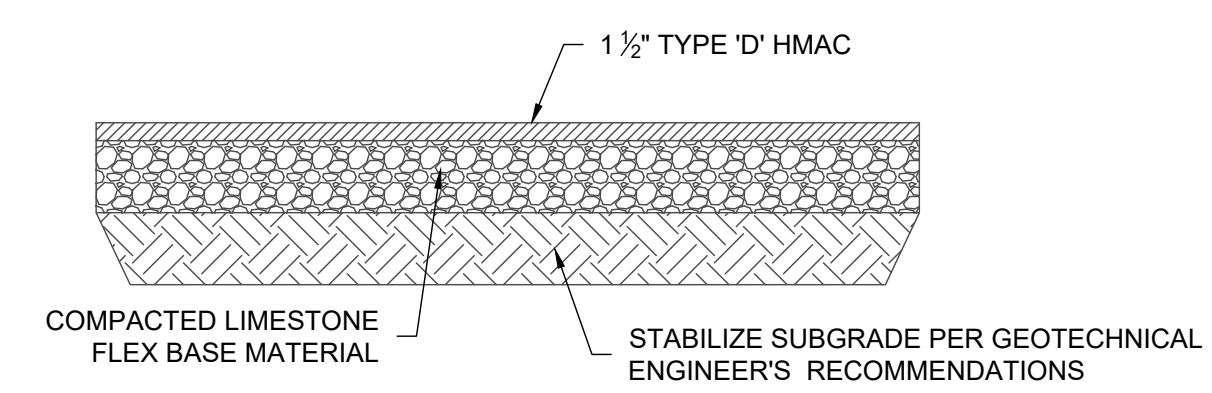
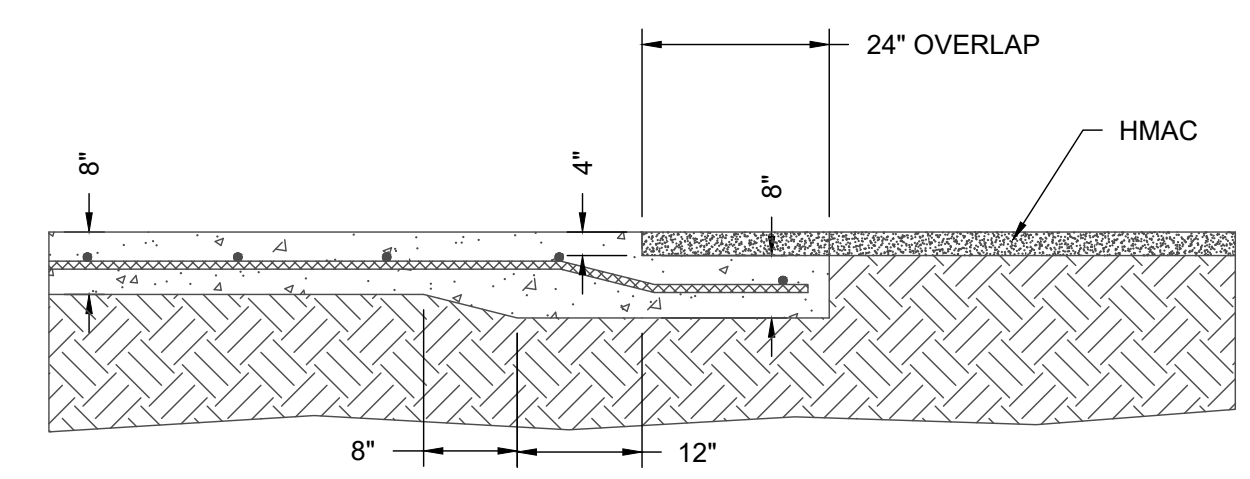
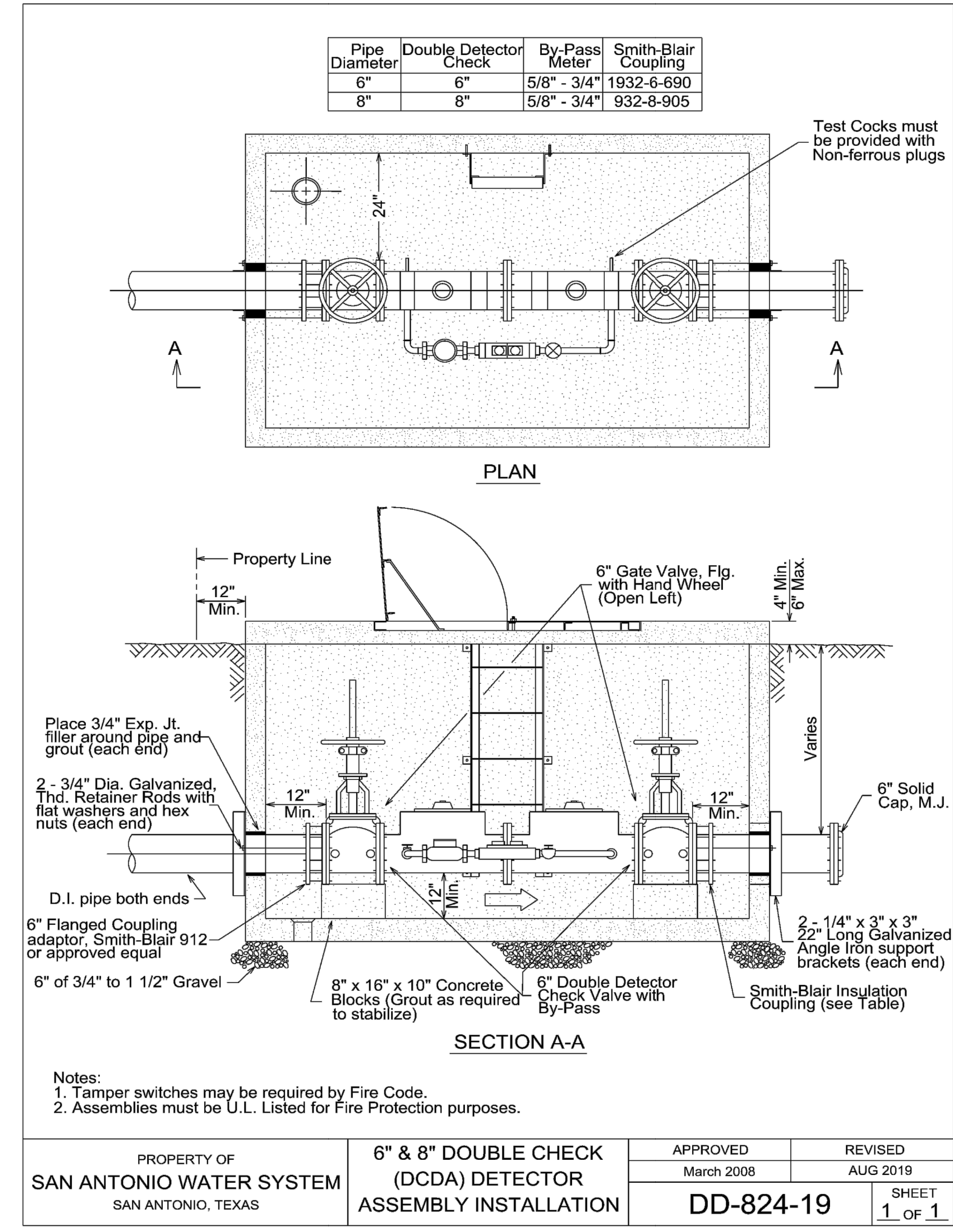
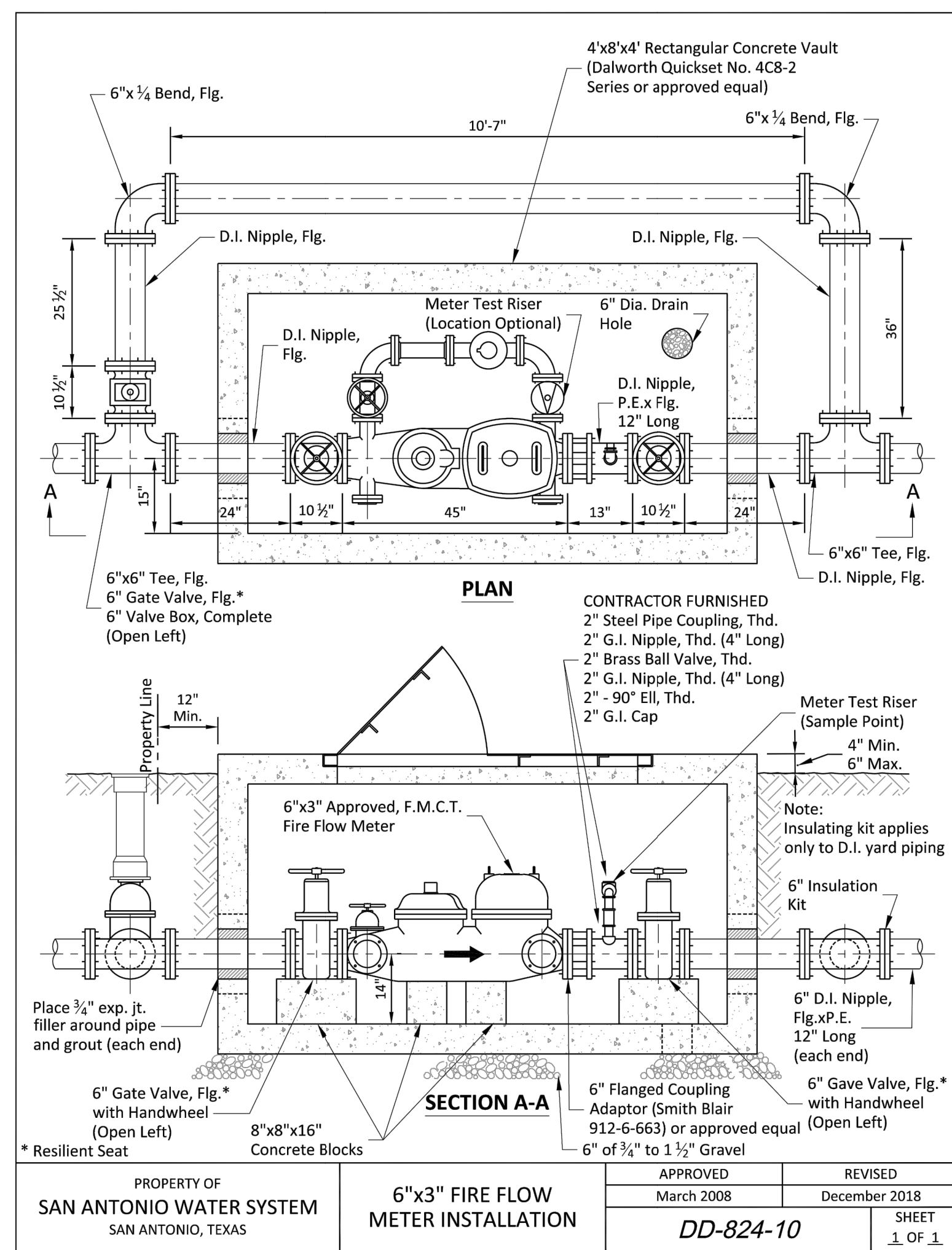
BUILDING NUMBER

EROSION CONTROL

C1100

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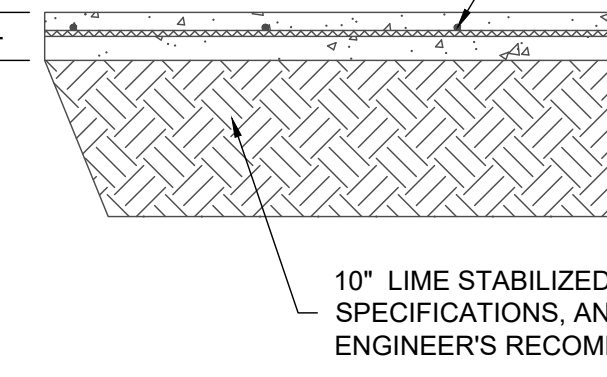
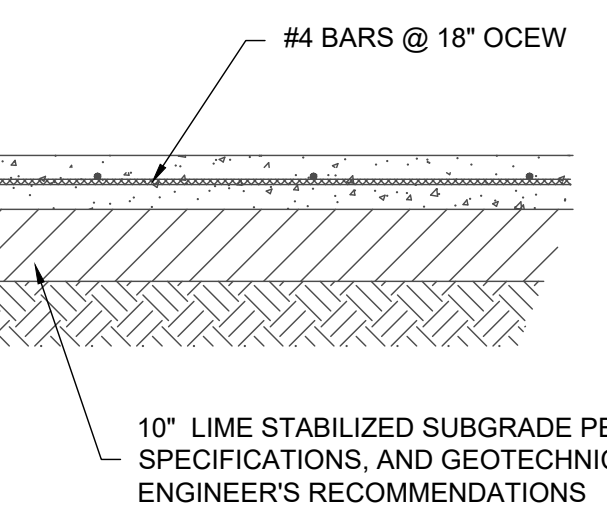
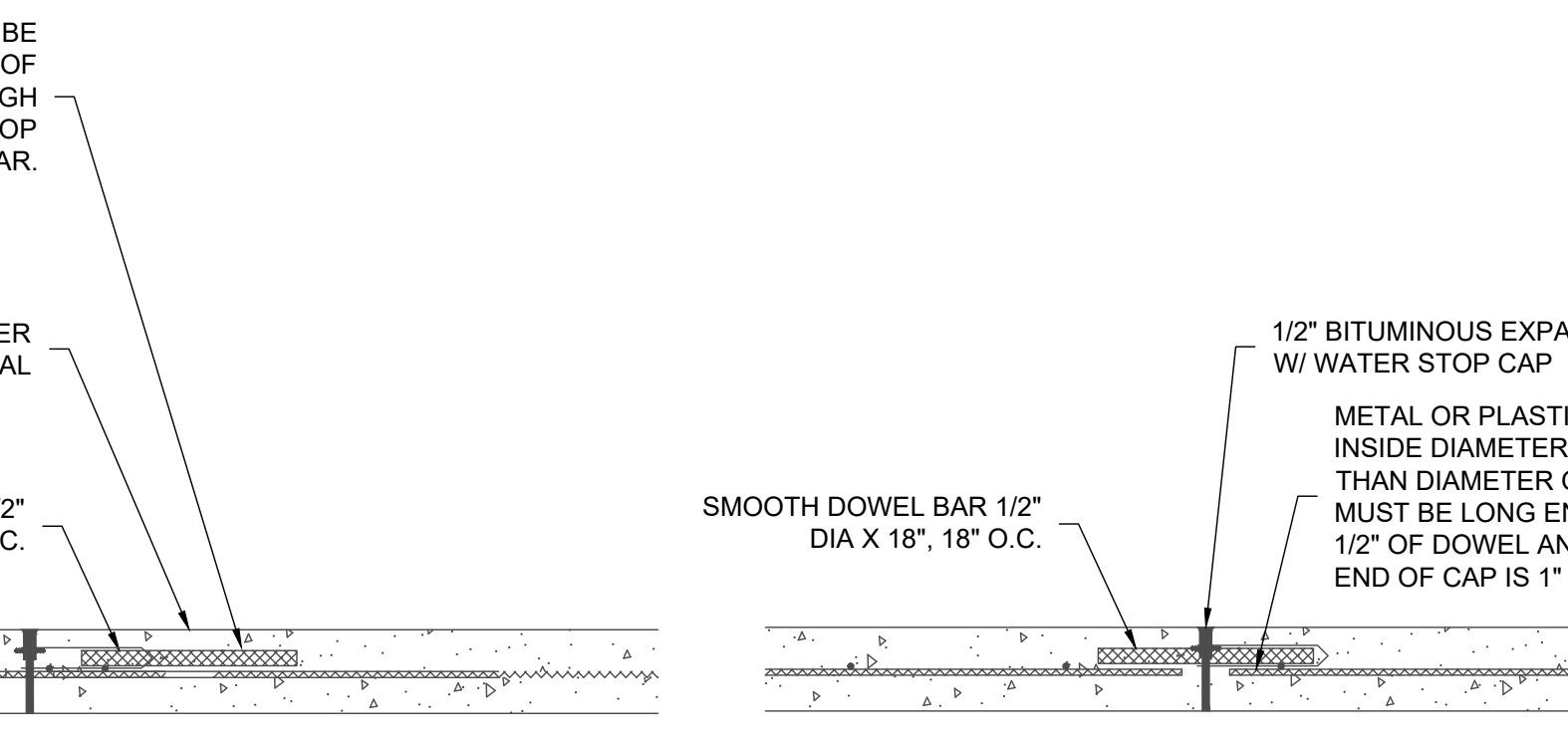
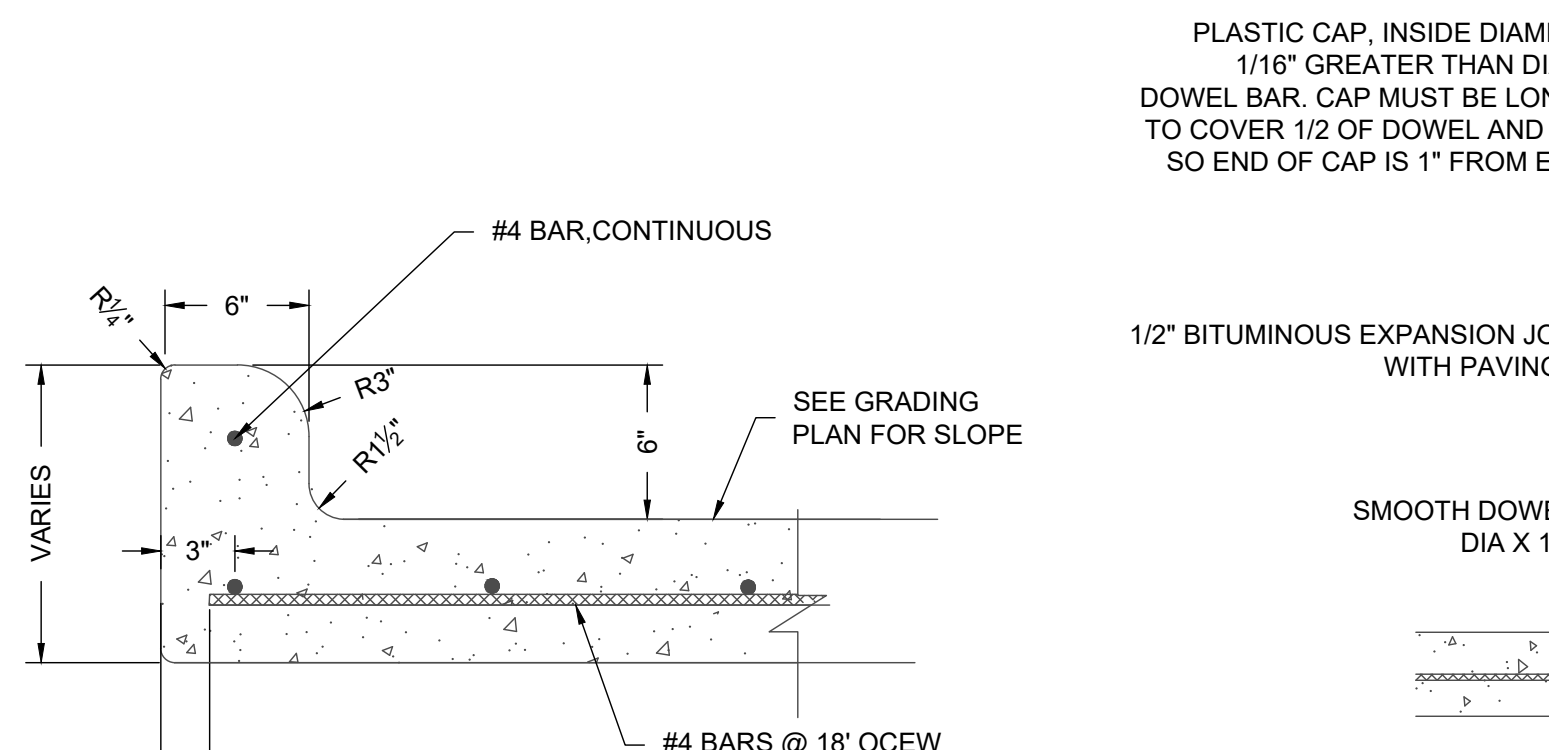
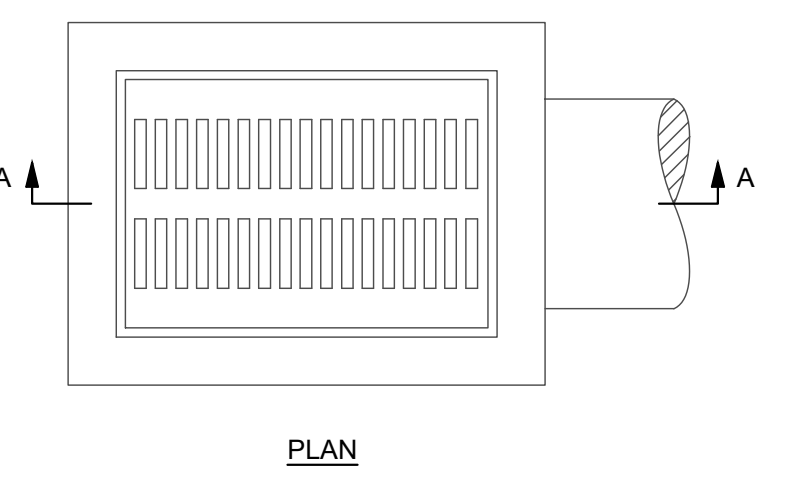
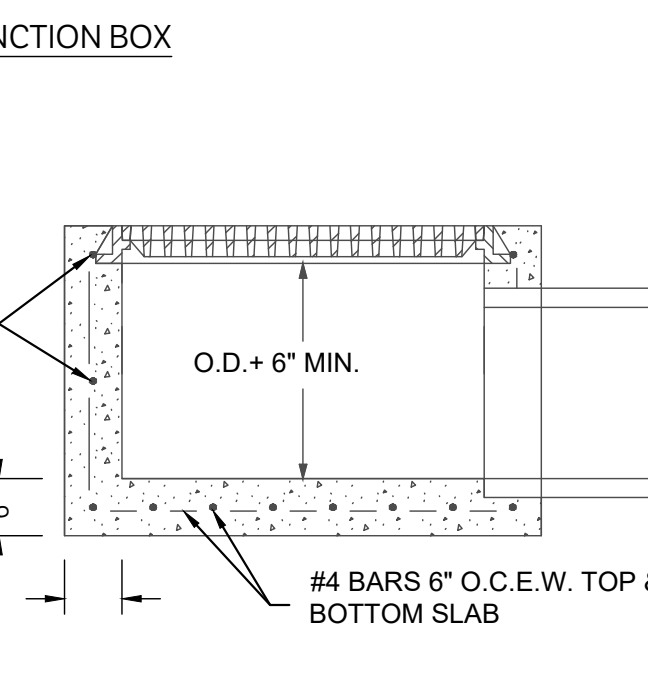
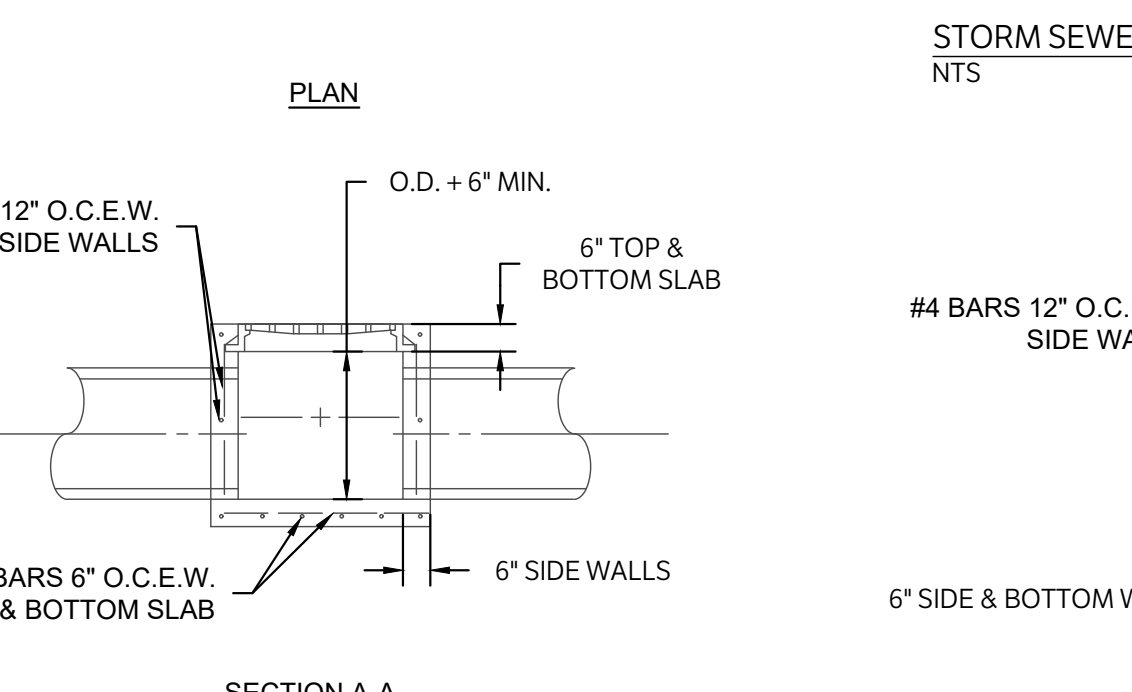
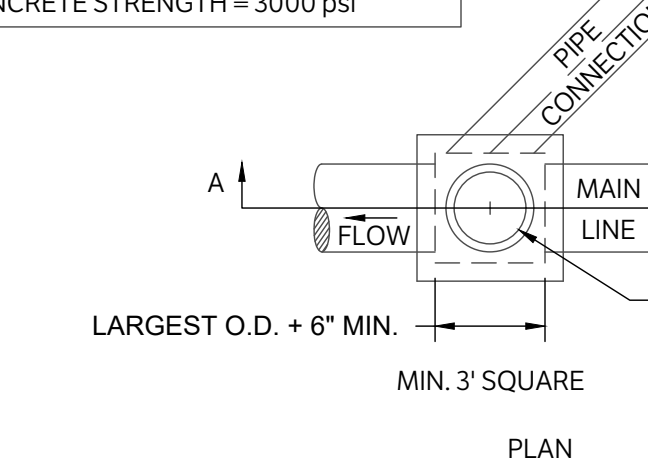
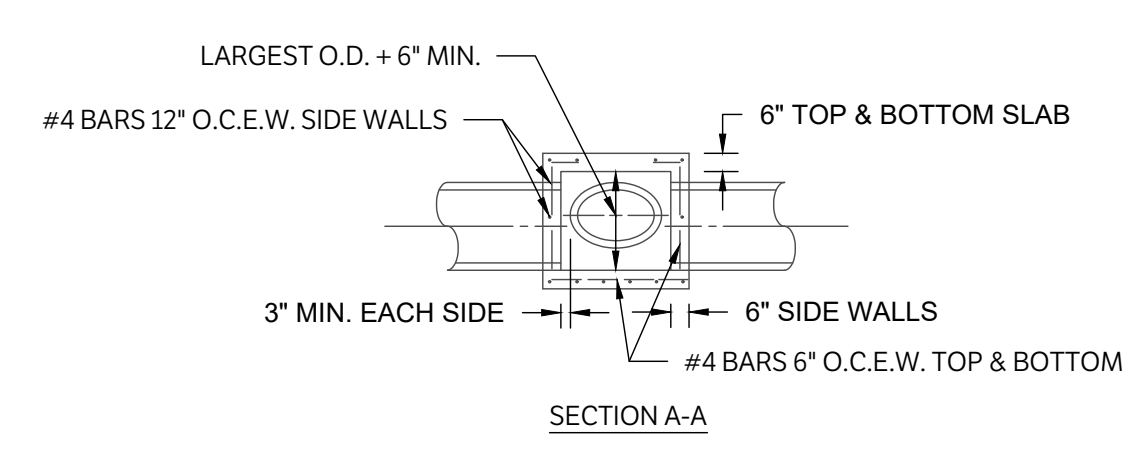
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- A. SATISFACTORY SOILS
- B. BANK RUN SAND
- C. CEMENT STABILIZED SAND
- D. PAVEMENT SUBGRADE

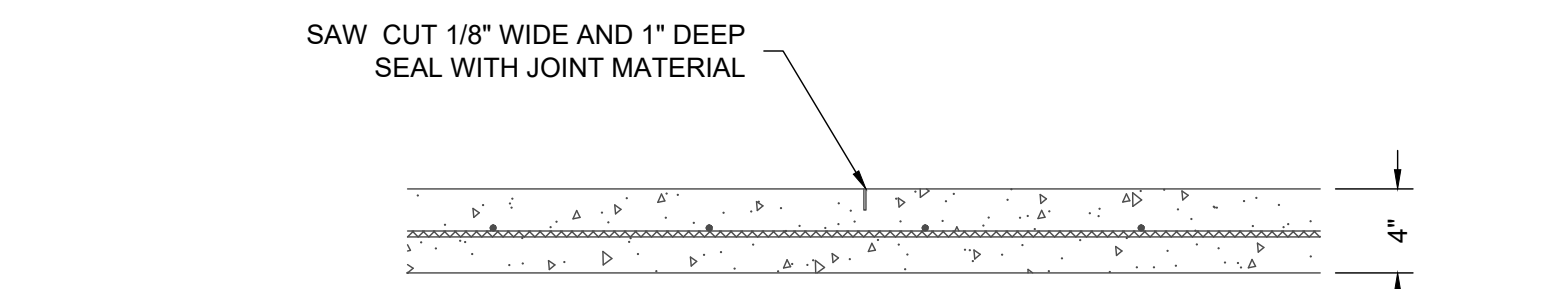
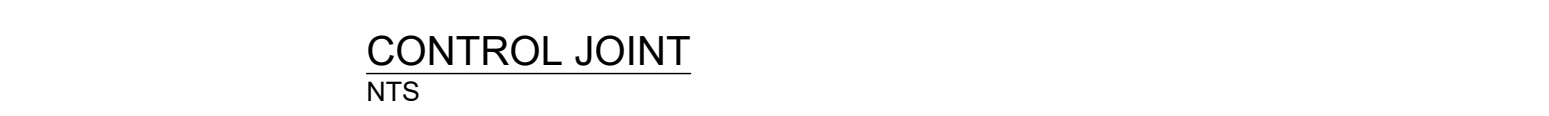
- GENERAL NOTES
- APPROVED EROSION CONTROL MEASURES
- ALL EROSION CONTROL MEASURES

- NOTES
- FOR BEDDING AND TRENCHING
- FOR OPEN CUT STREETS
- ALL BEDDING & INSTALLATION
- COMPACTION SHALL BE ATTAINED
- RELATIVE COMPACTION SHALL BE
- DUST RESULTING FROM THE CONTRACTOR'S
- APPROVED EROSION CONTROL MEASURES
- ALL TRENCHES SHALL BE BACK FILLED
- PROTECT ALL OPEN TRENCHES
- HOPE LINES WITH WELDED JOINTS



- NOTES
- SEE PLANS FOR JOINT SPACING
- SAW CUT OPERATIONS SHALL BEGIN
- SEAL ALL JOINTS WITH SELF-LEVELING

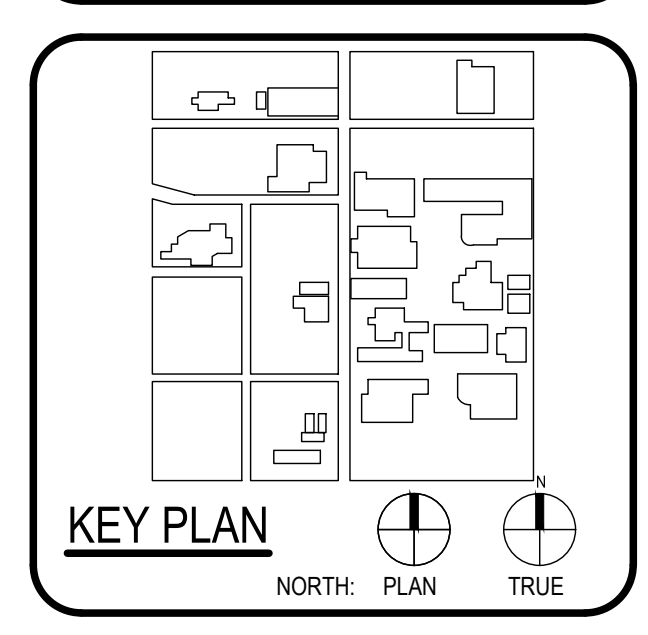
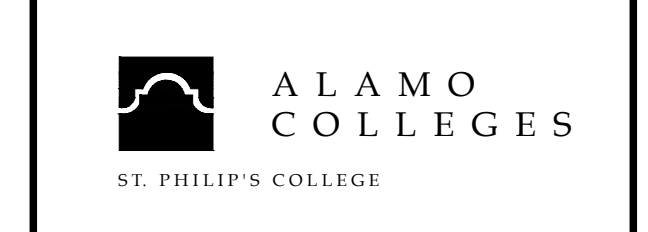
- NOTES
- SUBGRADE STABILIZATION SHALL BE
- SAW CUT OPERATIONS SHALL BEGIN
- SEAL ALL EXPANSION JOINTS



ARCHITECT PBK Architects, Inc.
 SAN ANTONIO
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 TX Firm BR 1608
 12/16/2019

PROPERTY OF
 SAN ANTONIO WATER SYSTEM
 SAN ANTONIO, TEXAS
 6" x 3" FIRE FLOW METER INSTALLATION
 DD-824-10
 SHEET 1 OF 1

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



CLIENT		Alamo Colleges	
DATE	PROJECT NUMBER	230462	
DRAWING HISTORY			
No.	Description	Date	
ISSUE FOR PERMIT			
BUILDING NUMBER			

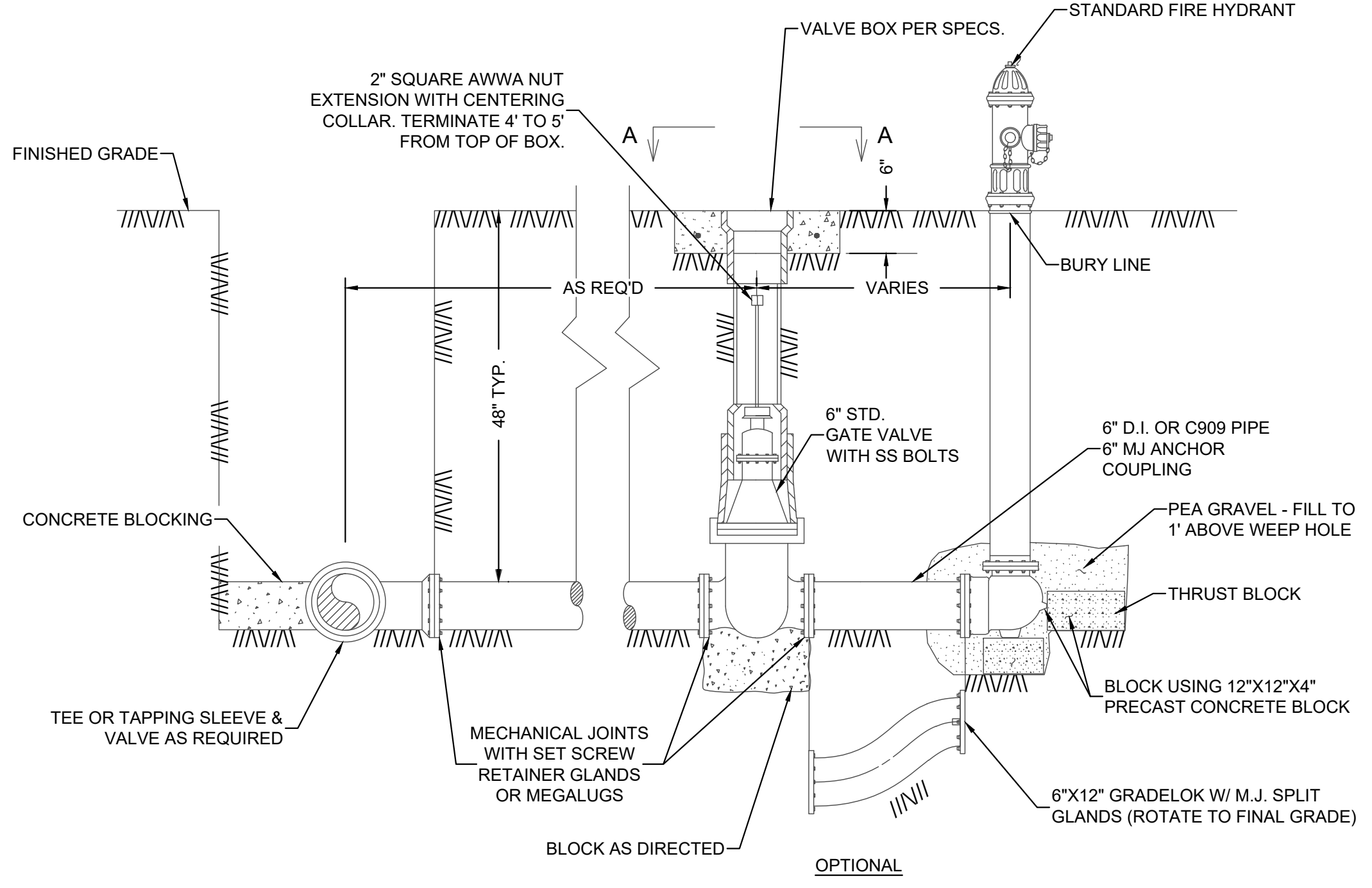
DETAILS

C1200

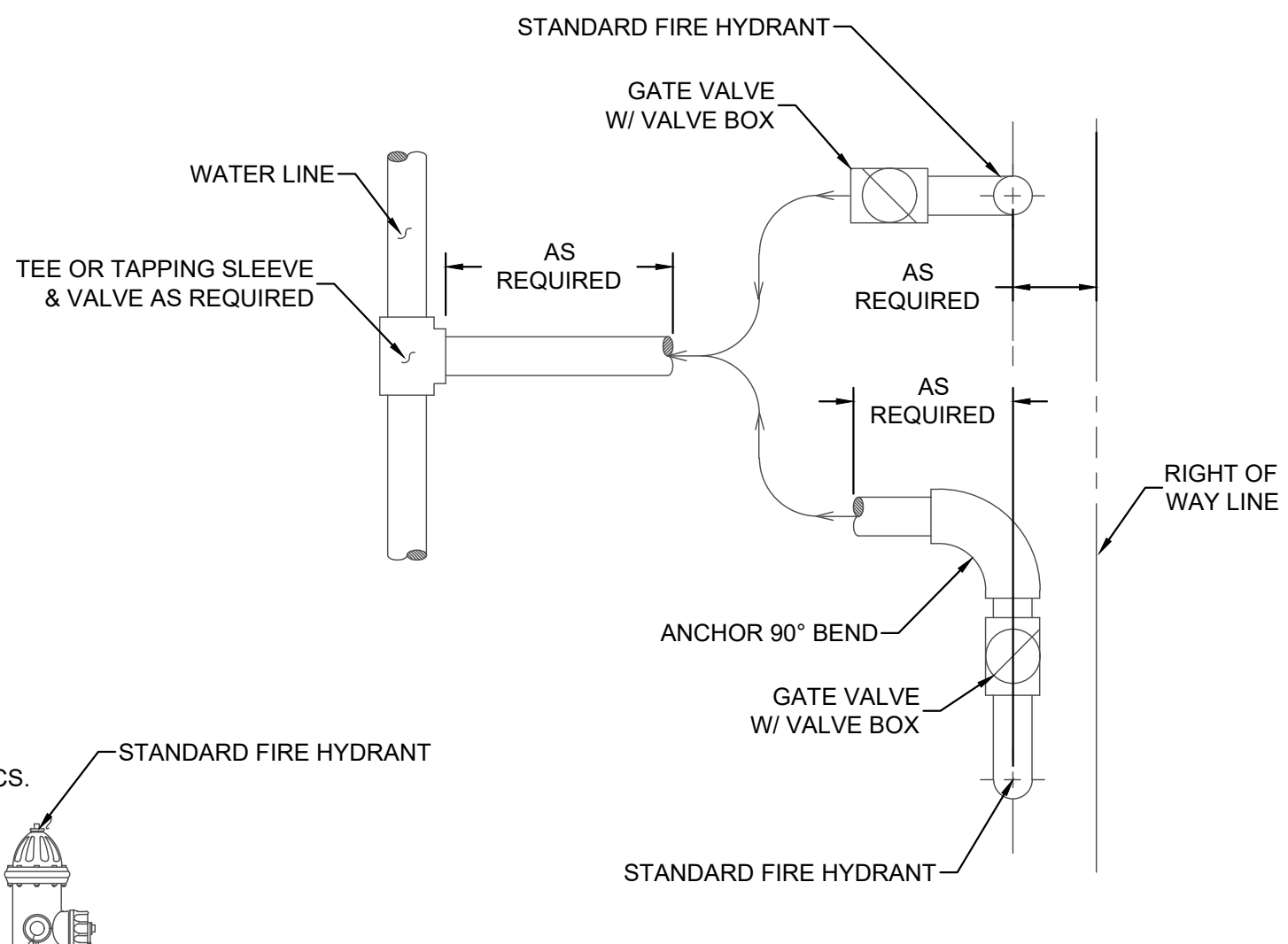
ISSUE FOR PERMIT

GENERAL NOTES:

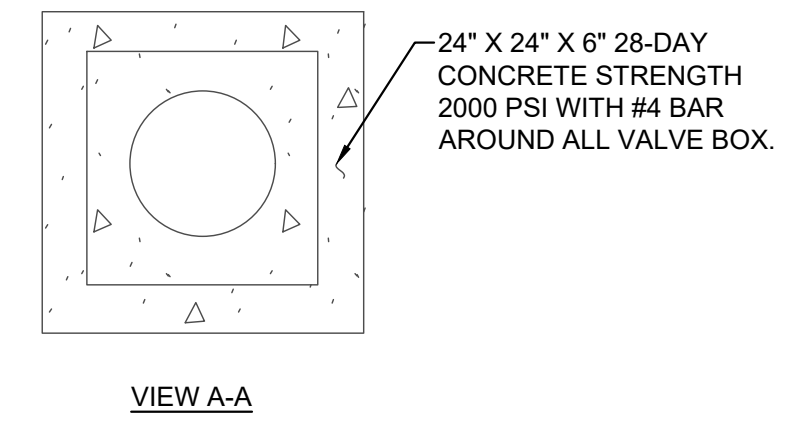
- FINELY DIVIDED EARTH FREE OF ROCK, LUMPS AND CLODS EXCEEDING 6" SHALL BE PLACED BY HAND, AND COMPACTED AROUND THE CAST IRON PIPE TO A DEPTH OF 12" OVER THE TOP OF THE PIPE BEFORE BACKFILL IS BEGUN BY ANY MECHANICAL EQUIPMENT.
- ALL CONCRETE BLOCKING SHALL BE - 28 DAY CONCRETE STRENGTH = 2000psi.
- 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 FITTING 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.



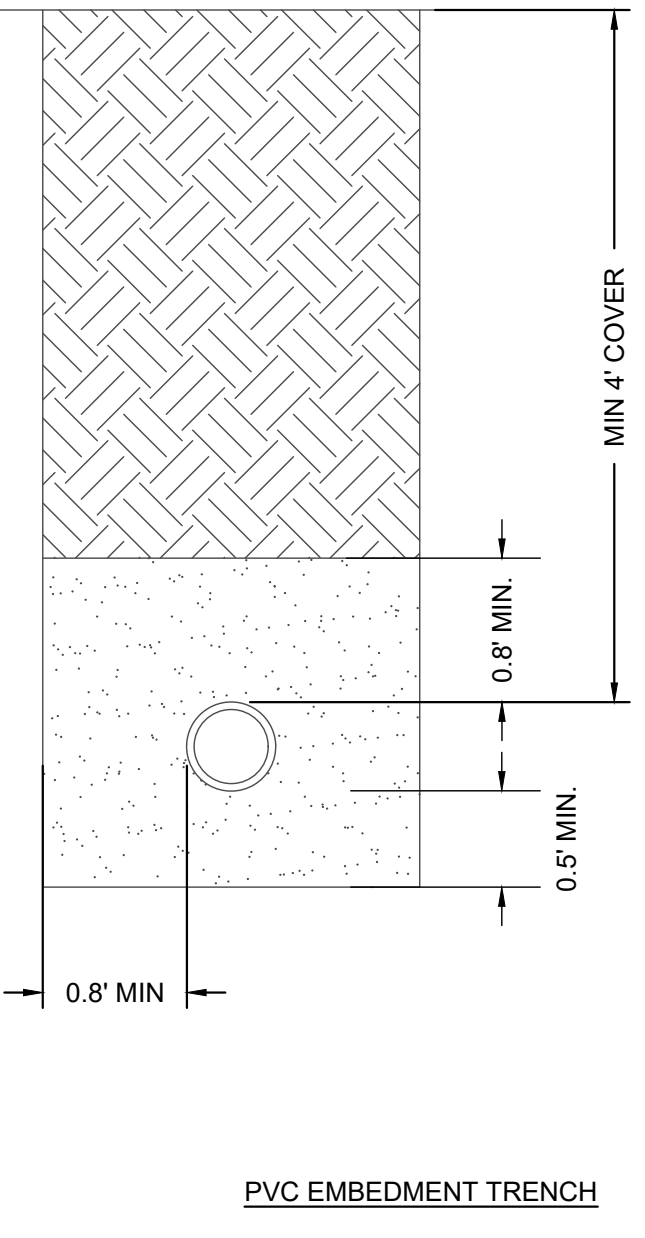
STANDARD FIRE HYDRANT ASSEMBLY
NTS



FIRE HYDRANT LOCATION REALIGN AS NEEDED

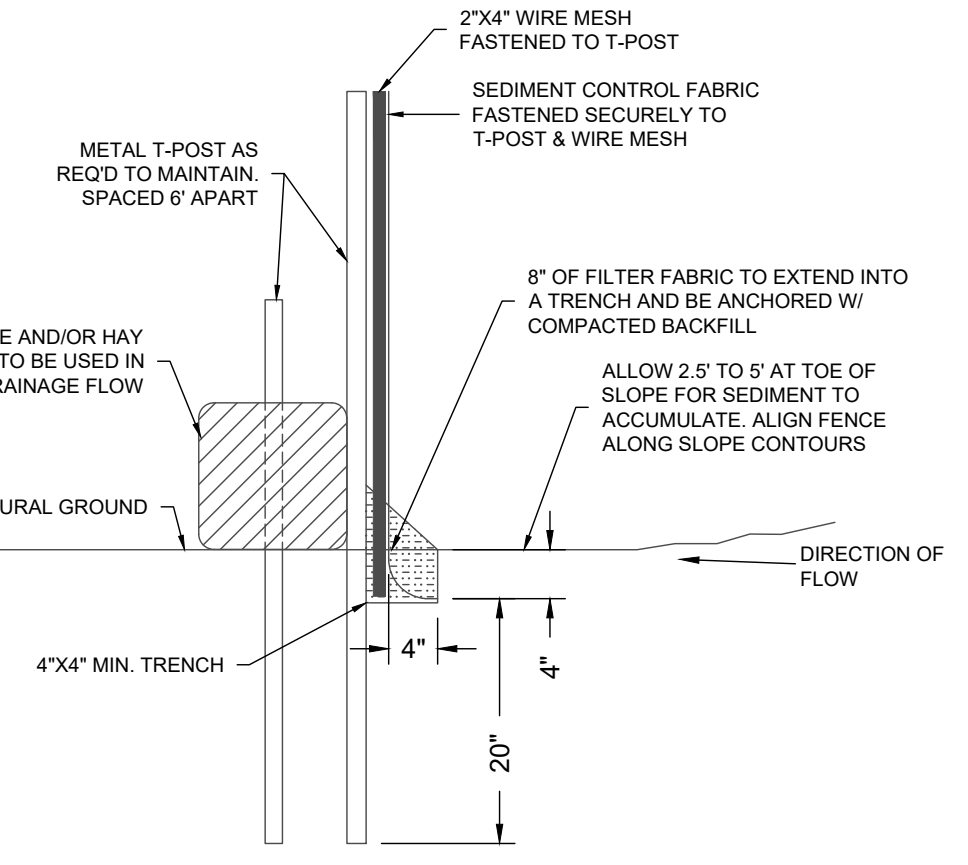


VIEW A-A

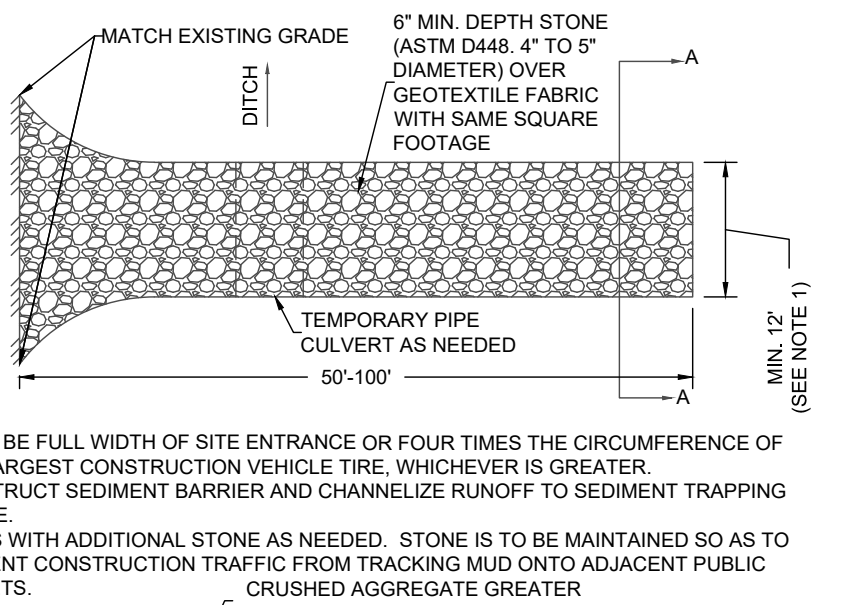


PVC EMBEDMENT TRENCH

- NOTES:**
- GRANULAR BACKFILL SHALL MEET THE SPECIFICATIONS OF TxDOT TYPE A.
 - ONSITE MATERIAL FOR FILL SHALL BE FREE OF DEBRIS AND GRAVEL LARGER THAN 2" IN DIAMETER.
 - UNDER PAVED AREAS, ONSITE FILL SHALL BE STABILIZED AS REQUIRED BY THE GEOTECHNICAL ENGINEER. BACKFILL SHALL BE COMPACTED TO 98% STANDARD PROCTOR DENSITY.
 - UNDER NON-PAVED AREAS, ONSITE FILL MAY BE USED AND SHALL BE COMPACTED IN 10" LIFTS TO 90% STANDARD PROCTOR DENSITY.

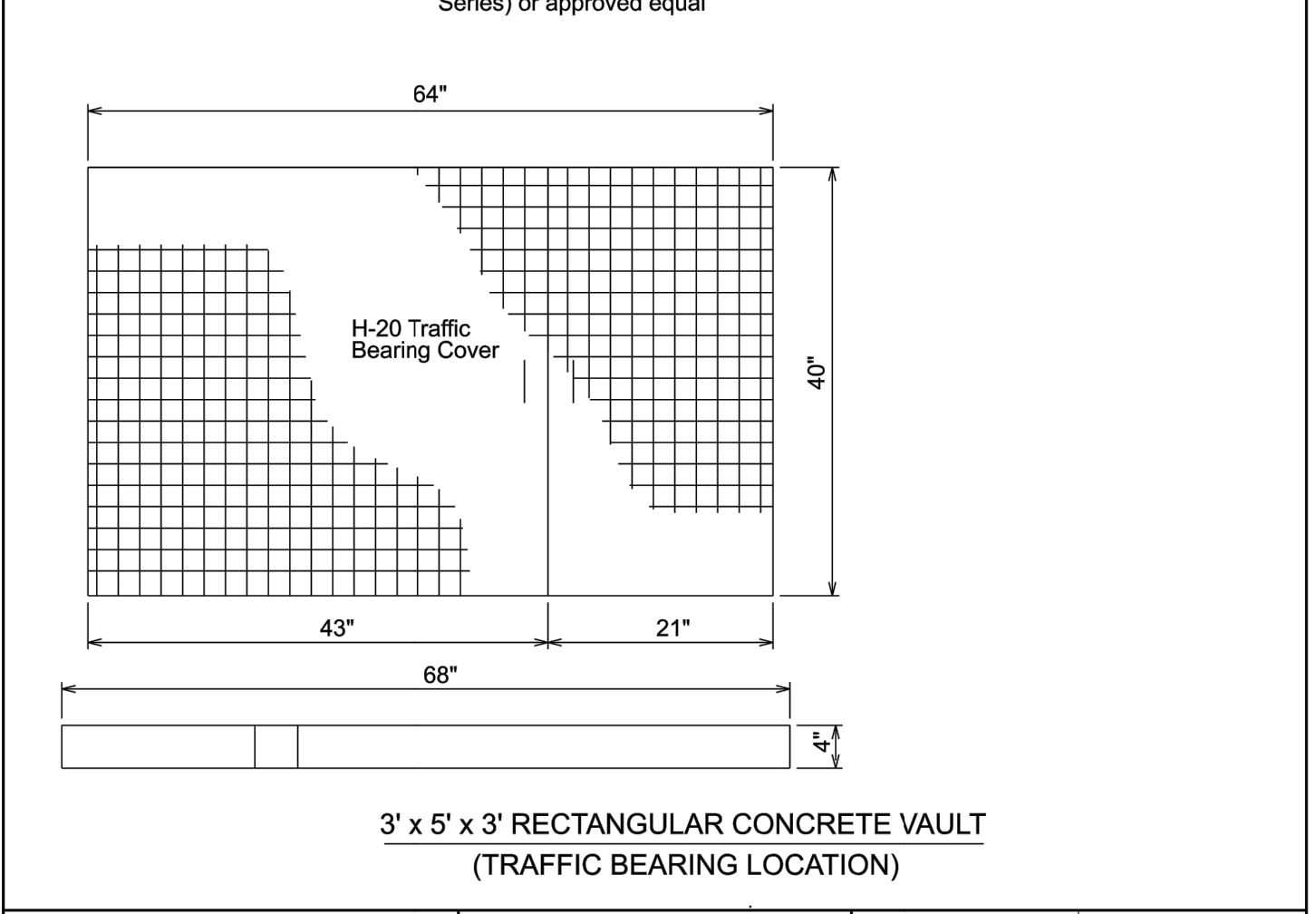
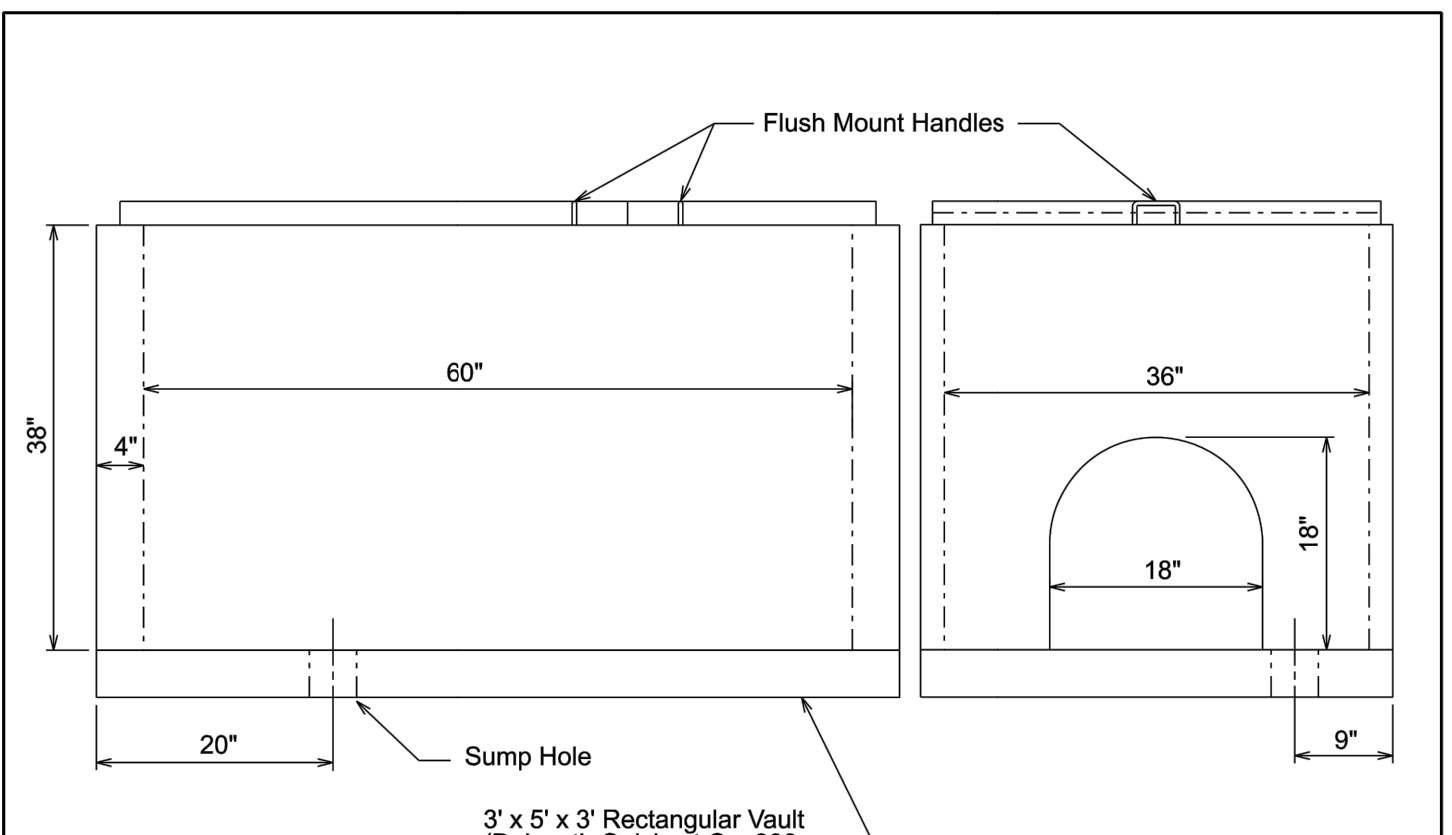


SILT CONTROL FENCE
NTS



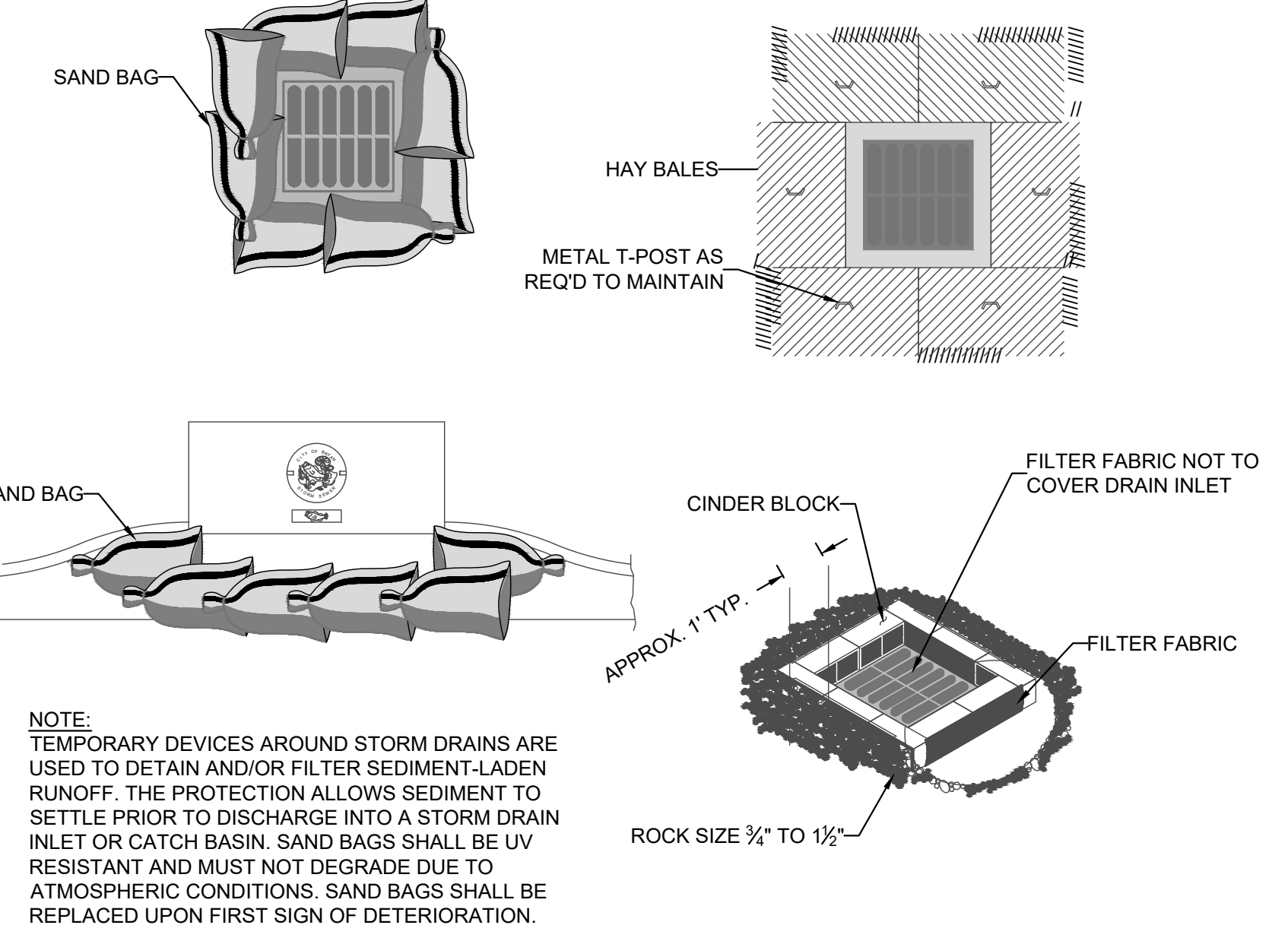
CONSTRUCTION ENTRANCE/EXIT
NTS

- NOTES:**
- SHALL BE FULL WIDTH OF SITE ENTRANCE OR FOUR TIMES THE CIRCUMFERENCE OF THE LARGEST CONSTRUCTION VEHICLE TIRE, WHICHEVER IS GREATER.
 - CONSTRUCT SEDIMENT BARRIER AND CHANNELIZE RUNOFF TO SEDIMENT TRAPPING DEVICE.
 - DRESS WITH ADDITIONAL STONE AS NEEDED. STONE IS TO BE MAINTAINED SO AS TO PREVENT CONSTRUCTION TRAFFIC FROM TRACKING MUD ONTO ADJACENT PUBLIC STREETS.



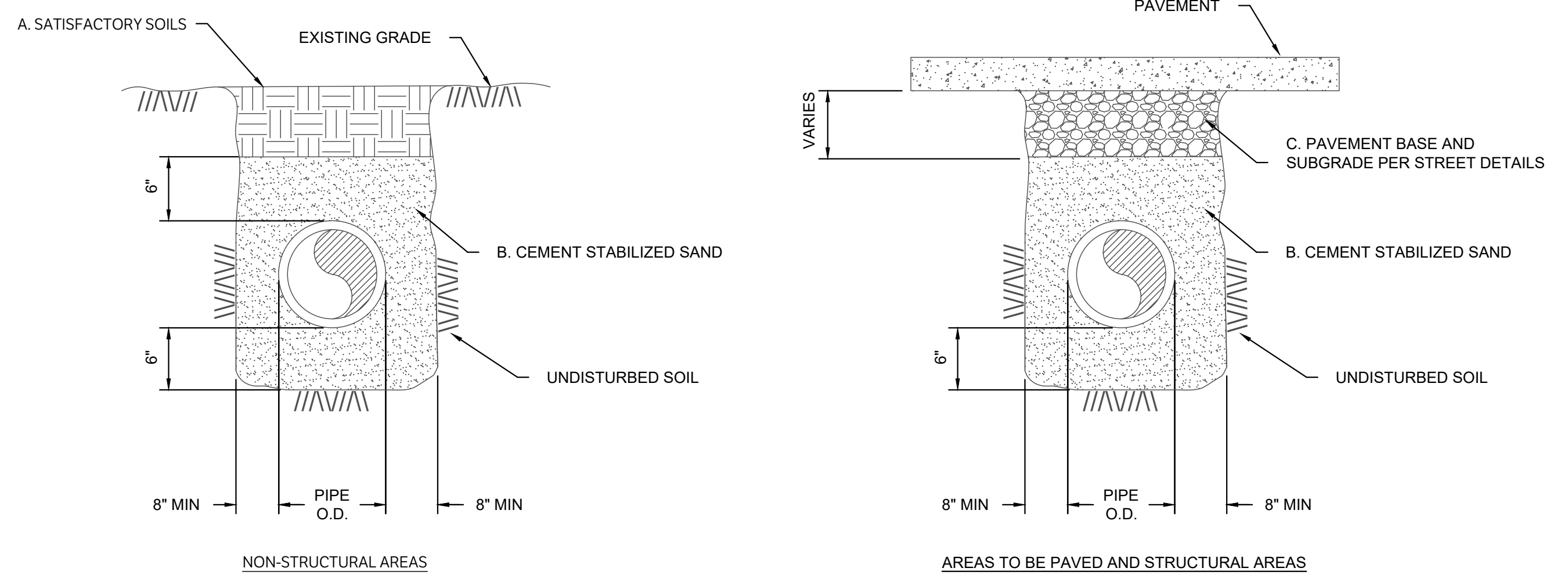
3' x 5' x 3' RECTANGULAR CONCRETE VAULT (TRAFFIC BEARING LOCATION)

PROPERTY OF SAN ANTONIO WATER SYSTEM SAN ANTONIO, TEXAS	VAULT FOR 3", 4", 6" & 8" TURBINE METER INSTALLATION	APPROVED MARCH 2008	REVISED APRIL 2014
		DD-808-02	
		SHEET 1 OF 1	



STORM DRAIN INLET PROTECTION
NTS

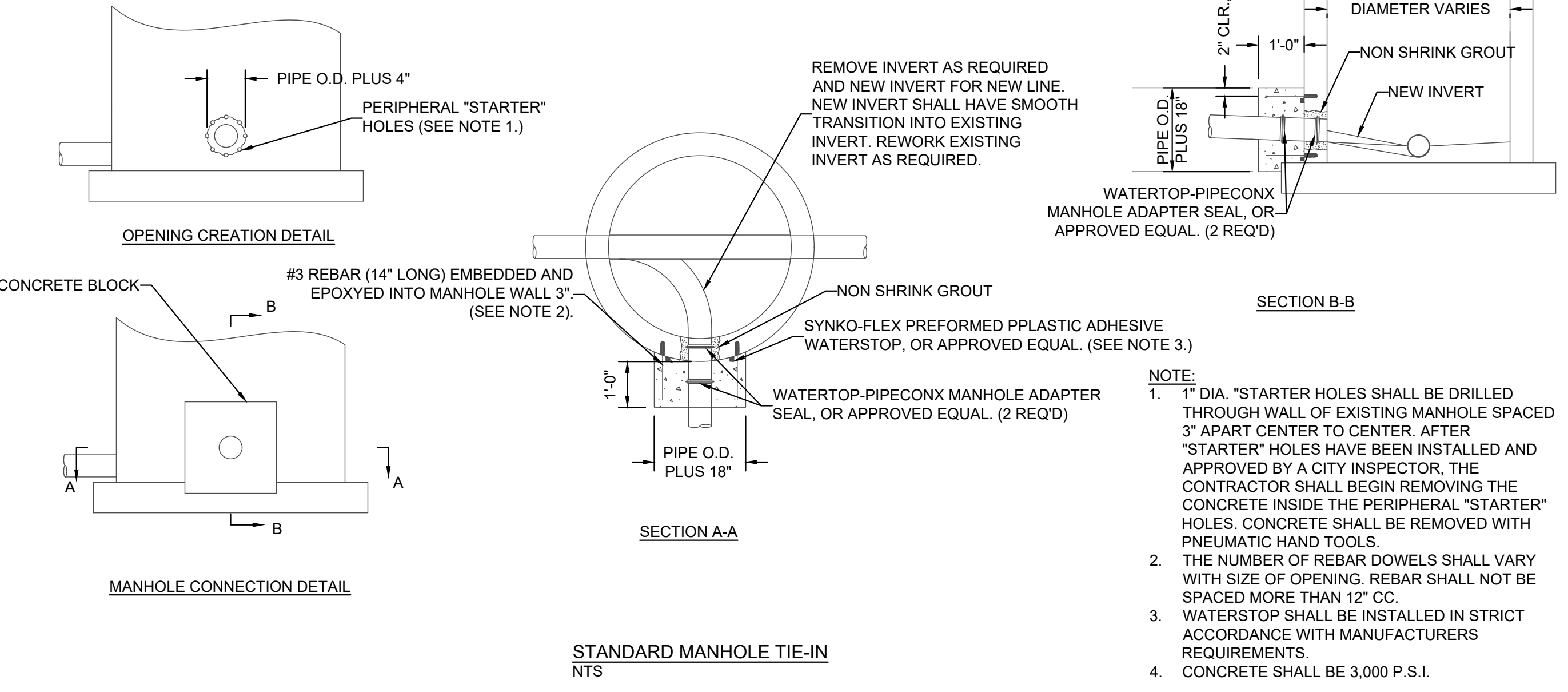
- NOTE:** TEMPORARY DEVICES AROUND STORM DRAINS ARE USED TO DETAIN AND/OR FILTER SEDIMENT-LADEN RUNOFF. THE PROTECTION ALLOWS SEDIMENT TO SETTLE PRIOR TO DISCHARGE INTO A STORM DRAIN INLET OR CATCH BASIN. SAND BAGS SHALL BE UV RESISTANT AND MUST NOT DEGRADE DUE TO ATMOSPHERIC CONDITIONS. SAND BAGS SHALL BE REPLACED UPON FIRST SIGN OF DETERIORATION.



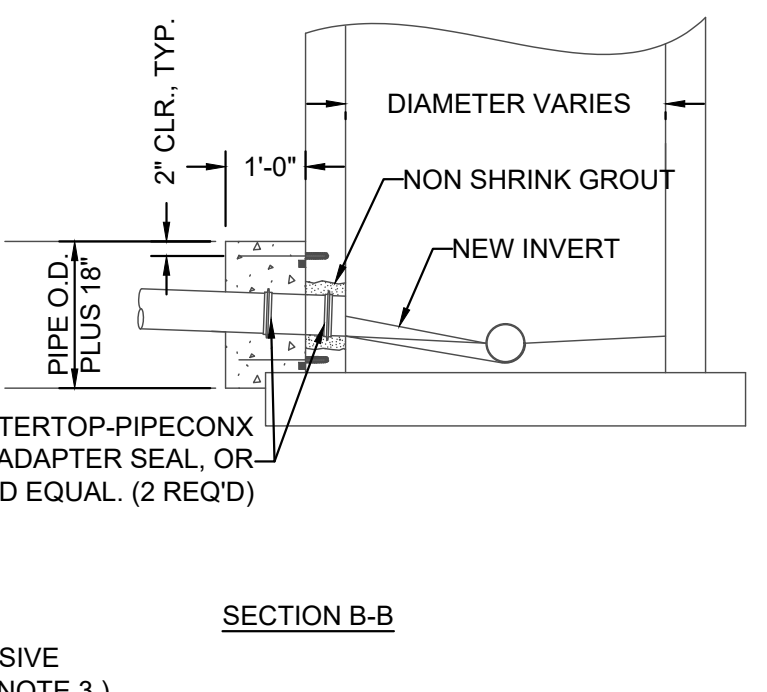
- A. SATISFACTORY SOILS**
MATERIAL EXCAVATED FROM THE DITCH, (WHICH IS FREE OF ROCKS, LUMPS, CLODS, OR DEBRIS LARGER THAN TWO (2) INCHES IN THE LARGEST DIMENSION), COMPACTED TO A MINIMUM OF 95% OF MAXIMUM DENSITY AS DETERMINED BY ASTM D698 (STANDARD) AT A MOISTURE CONTENT WITHIN -2% TO 2% ABOVE OPTIMUM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

- GENERAL NOTES:**
- ALL AREAS WHERE EXISTING VEGETATION AND GRASS COVER HAVE BEEN BARED BY CONSTRUCTION SHALL BE ADEQUATELY BLOCK SODDED OR HYDROMULCHED AND WATERED UNTIL GROWTH IS ESTABLISHED. IN DEVELOPED AREAS WHERE GRASS IS PRESENT, BLOCK SOD WILL BE REQUIRED. BARED AREAS SHALL BE SEEDDED OR SODDED WITHIN 14 CALENDAR DAYS OF LAST DISTURBANCE.
- APPROVED EROSION CONTROL MEASURES MUST BE INSTALLED DURING THE ENTIRE TIME THAT EARTH HAS BEEN BARED BY CONSTRUCTION AND SHALL STAY IN PLACE UNTIL ACCEPTABLE VEGETATIVE GROWTH IS ESTABLISHED AFTER CONSTRUCTION IS COMPLETE AND THEN REMOVED BY CONTRACTOR.
- ALL EROSION CONTROL MEASURES SHOULD BE CLEANED OF SILT AFTER EVERY RAIN.
- ESTABLISHMENT OF VEGETATION MAY BE A WARRANTY ITEM

BEDDING AND TRENCH FOR REINFORCED CONCRETE PIPE
NTS

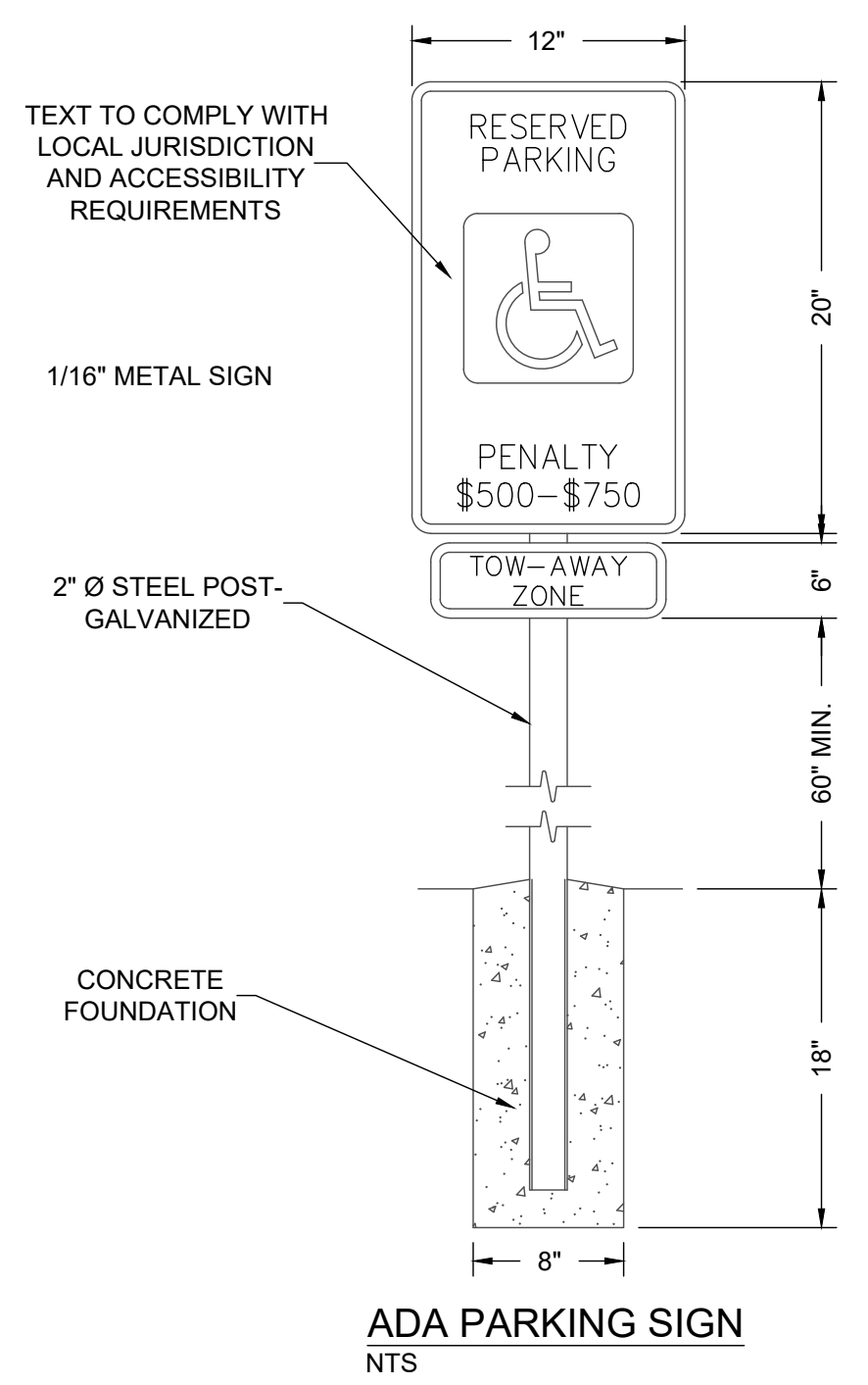


STANDARD MANHOLE TIE-IN
NTS



SECTION B-B

- 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" CC.
 - WATERSTOP SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURERS REQUIREMENTS.
 - CONCRETE SHALL BE 3,000 P.S.I.

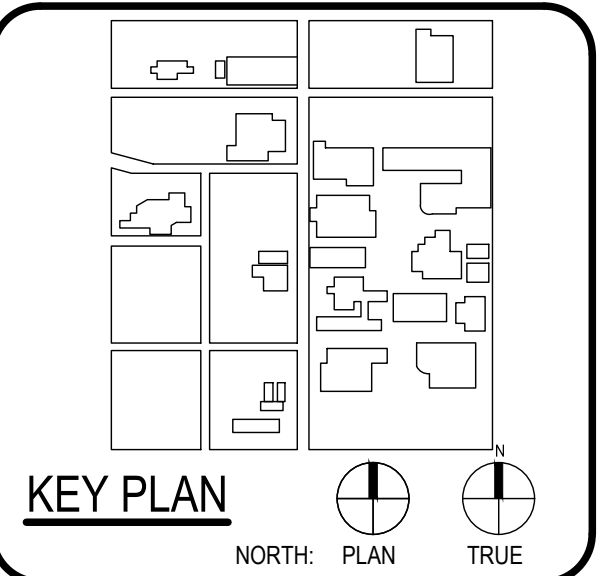


ADA PARKING SIGN
NTS



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
1701 BRUNNEN DUBLIN, OHIO 43017 LANDSCAPE 1713 ANDERSON DUBLIN, OHIO 43017 LUNNY & HUNTER ENGINEERING 1713 ANDERSON DUBLIN, OHIO 43017 PROFESSIONAL 1713 ANDERSON DUBLIN, OHIO 43017 MEASURE 1713 ANDERSON DUBLIN, OHIO 43017	

WFAC Black Box Addition PKG 1



CLIENT	Alamo Colleges	
DATE	PROJECT NUMBER	
230462		
DRAWING HISTORY		
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BUILDING NUMBER		

DETAILS

7. WOOD CONSTRUCTION			
A. PREFABRICATED STRUCTURAL ELEMENTS & ASSEMBLIES	N/A	INSPECT STRUCTURAL LOAD BEARING MEMBERS AND ASSEMBLIES. VERIFY THAT THE FABRICATOR MAINTAINS DETAILED FABRICATION AND QUALITY CONTROL PROCEDURES THAT PROVIDE A BASIS FOR INSPECTION CONTROL OF THE WORKMANSHIP AND THE FABRICATOR'S ABILITY TO CONFORM TO APPROVED CONSTRUCTION DOCUMENTS AND REFERENCED STANDARDS. THE SPECIAL INSPECTOR SHALL REVIEW THE PROCEDURES FOR CODE REQUIREMENTS FOR THE FABRICATOR'S SCOPE OF WORK. EXCEPTION: SPECIAL INSPECTIONS SHALL NOT BE REQUIRED WHERE THE FABRICATOR IS ENROLLED IN A NATIONALLY ACCEPTED INSPECTIONS PROGRAM ACCEPTABLE TO THE REGISTERED DESIGN PROFESSIONAL IS RESPONSIBLE CHARGE.	IBC 1704.6 IBC 1705.5
B. SITE BUILT ASSEMBLIES	N/A	SITE BUILT ASSEMBLIES SHALL BE INSPECTED IN ACCORDANCE WITH IBC SECTION 1704.1	IBC 1705.5
C. DIAPHRAGMS	N/A	HIGH LOAD DIAPHRAGMS SHALL BE INSPECTED IN ACCORDANCE WITH IBC SECTION 1704.1 AND SHEATHING CHECKED FOR PROPER GRADE, THICKNESS, SIZE OF FRAMING MEMBERS AT ADJOINING PANEL EDGES, NAIL/STAPLE DIAMETER AND LENGTH, AND FASTENER PATTERN.	IBC 1705.1
D. TRUSS BRACING	N/A	CHECK ALL REQUIRED PERMANENT AND LATERAL BRACING HAS BEEN INSTALLED ACCORDING TO STRUCTURAL DRAWINGS AND FABRICATOR DESIGN/SHOP DRAWINGS.	

NOTES:

- THESE INSPECTIONS DO NOT RELIEVE ENGINEER FROM STRUCTURAL OBSERVATIONS AS MAY BE REQUIRED BY IBC 2018, SECTION 1709, AND/OR CONTRACTUAL REQUIREMENTS OF ARCHITECT/CLIENT, (I.E. C141).
- DEFINITIONS/TERM: PERIODIC VS. CONTINUOUS INSPECTIONS - REF. IBC SECTION 1702 A.D.S.C. - THE INTERNATIONAL ASSOCIATION OF FOUNDATION DRILLING ASNT - AMERICAN SOCIETY FOR NONDESTRUCTIVE TESTING ASTM - AMERICAN SOCIETY FOR TESTING MATERIALS AWS - AMERICAN WELDING SOCIETY CWI - CERTIFIED WELDING INSPECTOR CRSI - CONCRETE REINFORCING STEEL INSTITUTE PCI - PRECAST/PRESTRESSED CONCRETE INSTITUTE P.TI. - POST-TENSIONING INSTITUTE N/A - NOT APPLICABLE

*TESTING AND INSPECTION DIRECTED BY ASTM E339 GUIDELINES

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

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

6. MASONRY CONSTRUCTION CONT.:			
LEVEL 2 INSPECTION:	ENGINEERED MASONRY IN ESSENTIAL FACILITIES.	IBC 1704.5.3	QUALIFICATIONS BASED ON C1093
A. FROM THE BEGINNING OF MASONRY CONSTRUCTION, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:	N/A	1. PROPORTIONS OF SITE-PREPARED MORTAR, GROUT, AND PRESTRESSING GROUT FOR BONDED TENDONS.	
	N/A	2. PLACEMENT OF MASONRY UNITS AND CONSTRUCTION OF MORTAR JOINTS.	
	N/A	3. PLACEMENT OF REINFORCEMENT, CONNECTORS, AND PRESTRESSING TENDONS AND ANCHORAGES.	
	N/A	4. GROUT SPACE PRIOR TO GROUTING.	
	N/A	5. PLACEMENT OF GROUT.	
	N/A	6. PLACEMENT OF PRESTRESSING GROUT.	
B. THE INSPECTION PROGRAM SHALL VERIFY:	N/A	1. SIZE AND LOCATION OF STRUCTURAL ELEMENTS.	
	N/A	2. TYPE, SIZE AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION.	
	N/A	3. SPECIFIED SIZE, GRADE AND TYPE OF REINFORCEMENT.	
	N/A	4. WELDING OF REINFORCEMENT.	
	N/A	5. PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40 DEGREES F) OR HOT WEATHER (TEMPERATURE ABOVE 90 DEGREES F).	
	N/A	6. APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE.	
C. PREPARATION OF ANY REQUIRED GROUT SPECIMENS, MORTAR SPECIMENS AND/OR PRISMS SHALL BE OBSERVED.	N/A	1. VERIFY COMPLIANCE WITH CODE AND CONSTRUCTION DOCUMENTS PROVISIONS.	QUALIFICATIONS BASED ON C1093
D. COMPLIANCE WITH REQUIRED INSPECTION PROVISIONS OF THE CONSTRUCTION DOCUMENTS AND THE APPROVED SUBMITTALS SHALL BE VERIFIED.	N/A	1. VERIFY COMPLIANCE WITH CODE AND CONSTRUCTION DOCUMENTS PROVISIONS.	
E. TESTING OF GROUT SPECIMENS, MORTAR SPECIMENS AND/OR PRISMS.	N/A	1. TEST ONE SET OF MORTAR CUBES PER 2000 # OR PORTION THEREOF. 2. TEST ONE SET OF GROUT CYLINDERS PER 2000 # OR PORTION THEREOF. 3. TEST ONE PRISM PER 6000 # OR PORTION THEREOF. (SUBMITTED PRISM WILL BE ACCEPTABLE FOR FIRST PRISM TEST).	QUALIFICATIONS BASED ON C1093

5. INSPECTION OF FABRICATORS FOR STRUCTURAL STEEL			
FABRICATION & IMPLEMENTATION PROCEDURES	N/A	FABRICATION AND IMPLEMENTATION PROCEDURES. THE SPECIAL INSPECTOR SHALL VERIFY THAT THE FABRICATOR MAINTAINS DETAILED FABRICATION AND QUALITY CONTROL PROCEDURES THAT PROVIDE A BASIS FOR INSPECTION CONTROL OF THE WORKMANSHIP AND THE FABRICATOR'S ABILITY TO CONFORM TO APPROVED CONSTRUCTION DOCUMENTS AND REFERENCED STANDARDS. THE SPECIAL INSPECTOR SHALL REVIEW THE PROCEDURES FOR COMPLETENESS AND ADEQUACY RELATIVE TO THE CODE REQUIREMENTS FOR THE FABRICATOR'S SCOPE OF WORK. EXCEPTION: SPECIAL INSPECTIONS SHALL NOT BE REQUIRED WHERE THE FABRICATOR IS ENROLLED IN A NATIONALLY ACCEPTED INSPECTIONS PROGRAM ACCEPTABLE TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. AT COMPLETION OF FABRICATION, THE APPROVED FABRICATOR SHALL SUBMIT A CERTIFICATE OF COMPLIANCE TO BUILDING OFFICIAL. UPON REQUEST AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE STATING THAT THE WORK WAS PERFORMED IN ACCORDANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS.	IBC 1705.2.1

3. CONCRETE CONSTRUCTION CONT.			
G. PLACEMENT OF CONCRETE & SHOTCRETE.	CONTINUOUS	ACI 318-CH. 5.9, 5.10	QUALIFICATIONS BASED ON ASTM C1077
H. MAINTENANCE OF SPECIFIED CURING TEMPERATURE & TECHNIQUES.	PERIODIC	ACI 318-CH. 5.11, 5.13	QUALIFICATIONS BASED ON ASTM C1077
I. PRE-STRESSED CONCRETE.	N/A	1. APPLICATION OF PRESTRESSING FORCE. 2. GROUTING OF BONDED PRESTRESSING TENDONS IN SEISMIC-FORCE RESISTING SYSTEMS.	QUALIFICATIONS BASED ON ASTM C1077
J. ERECTION OF PRECAST CONCRETE MEMBERS.	N/A	TECHNICIAN TRAINED IN FIELD OF WORK AND HAS AT LEAST ONE YEAR OF EXPERIENCE.	QUALIFICATIONS BASED ON ASTM E329
K. POST-TENSIONED CONCRETE.	N/A	1. VERIFY IN-SITU CONCRETE STRENGTH PRIOR TO STRESSING OF TENDONS.	QUALIFICATIONS BASED ON ASTM E329
L. REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	PERIODIC	VERIFY IN-SITU CONCRETE STRENGTH PRIOR TO REMOVAL.	ACI 318-CH. 5.11, 5.13
M. POST INSTALLED REINFORCING & ANCHORS (EXPANSION ANCHORS, SCREW ANCHORS, ADHESIVE ANCHORS, ECT.).	CONTINUOUS	THE SPECIAL INSPECTOR SHALL BE ON THE JOB SITE CONTINUOUSLY DURING ANCHOR INSTALLATION TO VERIFY ANCHOR TYPE, ANCHOR DIMENSIONS, CONCRETE TYPE AND COMPRESSION STRENGTH, PRE-DRILLED HOLE DIMENSIONS ANCHOR SPACING, EDGE DISTANCES, CONCRETE THICKNESS AND ANCHOR EMBEDMENT.	ACI 318 APPENDIX D-CH. D.9.1

4. STEEL CONSTRUCTION			
A. MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS AND WASHERS.	N/A	1. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	IBC 1705.2
	N/A	2. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.	APPLICABLE ASTM SPECIFICATIONS: AISC 330, SECTION A3.4; AISC LRFD, SECTION A3.3
B. HIGH STRENGTH BOLTING:	N/A	1. BEARING-TYPE CONNECTIONS.	IBC 1705.2.1
	N/A	2. SLIP-CRITICAL CONNECTIONS.	AWSD D1.1
C. MATERIAL VERIFICATION OF STRUCTURAL STEEL.	N/A	1. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	IBC 1705.2
	N/A	2. MANUFACTURER'S CERTIFIED MILL TEST REPORTS.	ASTM A 6 OR ASTM A 588
D. MATERIAL VERIFICATION OF WELD FILLER MATERIALS:	N/A	1. IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATION IN THE APPROVED CONSTRUCTION DOCUMENTS.	IBC 1705.2.1
	N/A	2. MANUFACTURER'S CERTIFIED OF COMPLIANCE REQUIRED.	AWSD, SECTION A3.6; AISC LRFD, SECTION A3.5

E. WELDING OF STRUCTURAL STEEL.			
1. COMPLETE & PARTIAL PENETRATION GROOVE WELDS.	N/A	IBC 1705.2.1	CWI AND ASNT
2. MULTIPASS FILLET WELDS.	N/A	AWSD D1.1	CWI AND ASNT OR LICENSED ENGINEER
3. SINGLE-PASS FILLET WELDS > 5/16"	N/A		
4. SINGLE-PASS FILLET WELDS ≤ 5/16"	N/A		
5. FLOOR AND DECK WELDS.	N/A	AWSD D1.3	
F. WELDING OF OTHER THAN A36.	N/A	IBC 1705.2.1.2	CWASSOCIATE/TECHNICAL TRAINED IN FIELD OF WORK AND HAS AT LEAST ONE YEAR OF EXPERIENCE.
G. STEEL FRAME JOINT DETAILS: COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS:	N/A	1. DETAILS SUCH AS BRACING & STIFFENING.	IBC 1705.2.1
	N/A	2. MEMBER LOCATIONS.	
	N/A	3. APPLICATION OF JOINT DETAILS AT EACH CONNECTION.	

2A. PIER FOUNDATIONS			
A. THE GEOTECHNICAL ENGINEER OR A QUALIFIED E.I.T. INVOLVED IN THE ORIGINAL GEOTECHNICAL INVESTIGATION AND UNDER THE DIRECT SUPERVISION OF THE GEOTECHNICAL ENGINEER SHALL BE PRESENT DURING THE EXCAVATION OF THE FIRST PIER SHAFT.	N/A	1. VERIFY THE BEARING STRATH IS ENCOUNTERED AT THE ANTICIPATED DEPTH.	IBC 1705.7
	N/A	2. ADDRESS UNFORESEEN SUBSURFACE CONDITIONS, IF ANY.	
	N/A	3. VERIFY CONFORMANCE WITH THE FOUNDATION RECOMMENDATIONS PROVIDED IN THE PROJECT "GEOTECHNICAL ENGINEERING STUDY" AND THE STRUCTURAL DRAWINGS ISSUED FOR THE PROJECT.	
B. ALL FOOTINGS SHALL BE OBSERVED AND MONITORED BY A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEER. THE CONTRACTOR SHALL PROVIDE A COMPLETE SET OF STRUCTURAL DRAWINGS THAT ARE TO REMAIN WITH THE GEOTECHNICAL ENGINEER OR HIS REPRESENTATIVE.	N/A	1. PROVIDE RECORD OF EACH PIER INSTALLED.	IBC 1705.7
	N/A	2. RECORD LOAD TESTS, CUTOFF AND TIP OF EACH PILE.	GEOTECHNICAL REPORT: ASTM E529 & ASTM C1077

3. CONCRETE CONSTRUCTION			
A. REINFORCING STEEL	PERIODIC	PROVIDE PERIODIC INSPECTION OF REINFORCING SIZES, SPACING, GRADE OF REBAR, AND PLACEMENT AT THE FOLLOWING FREQUENCY: JOIST: 10% OTHER MEMBERS: RANDOMLY @ 20%	IBC 1705.3
B. REINFORCING STEEL WELDING	-	NO FIELD WELDING PERMITTED.	AWSD D1.4 ACI 318 3.5.2
C. BOLTS TO BE INSTALLED IN CONCRETE PRIOR TO & DURING PLACEMENT OF CONCRETE WHERE ALLOWABLE LOADS HAVE BEEN INCREASED.	CONTINUOUS	VERIFY LOCATION, SIZE AND SPACING OF ANCHORS.	IBC 1705.3
D. ANCHORS TO BE INSTALLED IN EXISTING CONCRETE	CONTINUOUS	VERIFY LOCATION, SIZE AND SPACING OF ANCHORS.	IBC 1705.3
E. VERIFY USE OF CONCRETE MIX DESIGN	PERIODIC	EACH CONCRETE POUR.	ACI 318-CH. 4, 5.2.4
F. SAMPLES OF FRESH CONCRETE	CONTINUOUS	1. ALL CONCRETE TESTING IS TO BE MADE AFTER WATER, IF ANY, IS ADDED AT SITE. 2. TAKE SAMPLES & PERFORM SLUMP, AIR & COMPRESSION TESTS IN ACCORDANCE WITH ASTM C-39 ON CONCRETE PLACED EACH DAY AT THE RATE OF ONE SET OF FOUR CYLINDERS FOR EACH 80 cu. yds. OR FRACTION THEREOF. WHEN MORE THAN 80 cu. yds. IS BEING CONTINUOUSLY PLACED, THE INTERVAL BETWEEN TEST SAMPLES SHALL BE AT LEAST 90 cu. yds. 30 AS TO BE REPRESENTATIVE OF THE WHOLE DAYS POUR. SAMPLES SHALL BE TAKEN AT THE POINT OF DEPOSIT IN THE FIELD & ALL CYLINDERS SHALL BE ACCURATELY MARKED & REFERENCED TO SHOW DATE, TIME & EXACT LOCATION IN THE STRUCTURE FROM WHICH THEY CAME. MAKE 7-DAY TEST ON TWO CYLINDERS & 28-DAY TEST ON TWO CYLINDERS. REPORTS OF TESTS SHALL BE PROMPTLY SENT AS FOLLOWS: TWO TO THE PORTER (ARCHITECT), ONE TO THE ENGINEER AND ONE TO THE CONTRACTOR.	ACI 318-CH. 5.6, 5.8

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

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

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

TESTING & INSPECTION REQUIREMENTS (INCLUDING SPECIAL INSPECTIONS)

REQUIRED INSPECTION VERIFICATION, OR TEST	VERIFICATION MONITORING FREQUENCY	TYPE AND/OR FREQUENCY OF TESTING	IBC SECTION & REFERENCE CRITERIA	INSPECTOR QUALIFICATIONS
1. SOILS (SLAB ON GRADE)				
A. SUB-GRADE	PERIODIC	SITE PREPARATION: AT THE CONTRACTOR'S EXPENSE, INSTRUMENT READINGS SHALL BE TAKEN BY A LICENSED SURVEYOR TO VERIFY FINAL SUBGRADE ELEVATIONS AND SLOPES.	IBC 1705.6	QUALIFICATIONS BASED ON ASTM D3740 LICENSED SURVEYOR
2. PROFFROLLING OBSERVATIONS	CONTINUOUS	PROFFROLLING SHALL BE MONITORED BY A GEOTECHNICAL ENGINEER. THE GEOTECHNICAL ENGINEER SHALL BE APPROVE THE TYPE OF PROFFROLLING EQUIPMENT AND PROCEDURES.	IBC 1705.6	QUALIFICATIONS BASED ON ASTM D3740
3. MOISTURE CONDITIONING & RECONSTRUCTION	PERIODIC	PROVIDE (1) ON DENSITY TEST FOR EACH 3000 SQ. FT. REFER TO UNDER-FLOOR FILL NOTES FOR TESTING SPECIFICATIONS.	IBC 1705.6	QUALIFICATIONS BASED ON ASTM D3740
B. CHEMICAL INJECTION	N/A	QUALITY CONTROLLED TESTING AND EVALUATION PRIOR AND SUBSEQUENT TO INJECTION SHALL BE PERFORMED BY THE GEOTECHNICAL ENGINEER TO DETERMINE THE EFFECTIVENESS OF THE CHEMICAL INJECTION PROCESS. THE GEOTECHNICAL ENGINEER OR HIS REPRESENTATIVE SHALL MONITOR THE INJECTION PROCESS: TO VERIFY AREA COVERAGE, INJECTION DEPTH AND TO REVIEW AND MONITOR THE SWELL TEST RESULTS.	IBC 1705.6	QUALIFICATIONS BASED ON ASTM D3740
C. DURING FILL PLACEMENT	PERIODIC	VISUAL OBSERVATIONS: DURING PLACEMENT AND COMPACTON OF FILL, SPECIAL INSPECTOR SHALL DETERMINE THE MATERIAL BEING USED AND THE MAXIMAL LIFT THICKNESS COMPLY WITH ADDITIONAL SAMPLES TESTED EACH DAY, OR MORE OFTEN IF MATERIAL APPEARS TO VARY.	IBC 1705.6	QUALIFICATIONS BASED ON ASTM D3740
D. EVALUATION OF IN-PLACE DENSITY OF FILL	PERIODIC	PROVIDE (1) ON DENSITY TEST FOR EACH 3000 SQ. FT. REFER TO UNDER-FLOOR FILL NOTES FOR TESTING SPECIFICATIONS.	IBC 1705.6	QUALIFICATIONS BASED ON ASTM D3740
E. TRENCH BACKFILLING:	PERIODIC	TRENCH BACKFILLING: TRENCH BACKFILLING WITH CLAY CAP AND PLACING OF CLAY PLUG SHALL BE MONITORED BY GEOTECHNICAL ENGINEER.	IBC 1705.6	QUALIFICATIONS BASED ON ASTM D3740
2A. PIER FOUNDATIONS				
A. THE GEOTECHNICAL ENGINEER OR A QUALIFIED E.I.T. INVOLVED IN THE ORIGINAL GEOTECHNICAL INVESTIGATION AND UNDER THE DIRECT SUPERVISION OF THE GEOTECHNICAL ENGINEER SHALL BE PRESENT DURING THE EXCAVATION OF THE FIRST PIER SHAFT.	N/A	1. VERIFY THE BEARING STRATH IS ENCOUNTERED AT THE ANTICIPATED DEPTH.	IBC 1705.7	GRADUATE ENGINEER
	N/A	2. ADDRESS UNFORESEEN SUBSURFACE CONDITIONS, IF ANY.		QUALIFICATIONS BASED ON ASTM E529 & ASTM C1077
	N/A	3. VERIFY CONFORMANCE WITH THE FOUNDATION RECOMMENDATIONS PROVIDED IN THE PROJECT "GEOTECHNICAL ENGINEERING STUDY" AND THE STRUCTURAL DRAWINGS ISSUED FOR THE PROJECT.		
B. ALL FOOTINGS SHALL BE OBSERVED AND MONITORED BY A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEER. THE CONTRACTOR SHALL PROVIDE A COMPLETE SET OF STRUCTURAL DRAWINGS THAT ARE TO REMAIN WITH THE GEOTECHNICAL ENGINEER OR HIS REPRESENTATIVE.	N/A	1. PROVIDE RECORD OF EACH PIER INSTALLED.	IBC 1705.7	QUALIFICATIONS BASED ON ASTM E529 & ASTM C1077
	N/A	2. RECORD LOAD TESTS, CUTOFF AND TIP OF EACH PILE.		
3. CONCRETE CONSTRUCTION				
A. REINFORCING STEEL	PERIODIC	PROVIDE PERIODIC INSPECTION OF REINFORCING SIZES, SPACING, GRADE OF REBAR, AND PLACEMENT AT THE FOLLOWING FREQUENCY: JOIST: 10% OTHER MEMBERS: RANDOMLY @ 20%	IBC 1705.3	QUALIFICATIONS BASED ON ASTM E529
B. REINFORCING STEEL WELDING	-	NO FIELD WELDING PERMITTED.	AWSD D1.4 ACI 318 3.5.2	CWI OR ASSOCIATE CWI
C. BOLTS TO BE INSTALLED IN CONCRETE PRIOR TO & DURING PLACEMENT OF CONCRETE WHERE ALLOWABLE LOADS HAVE BEEN INCREASED.	CONTINUOUS	VERIFY LOCATION, SIZE AND SPACING OF ANCHORS.	IBC 1705.3	**TECHNICIAN TRAINED IN FIELD OF WORK AND HAS AT LEAST ONE YEAR EXPERIENCE.
D. ANCHORS TO BE INSTALLED IN EXISTING CONCRETE	CONTINUOUS	VERIFY LOCATION, SIZE AND SPACING OF ANCHORS.	IBC 1705.3	**TECHNICIAN TRAINED IN FIELD OF WORK AND HAS AT LEAST ONE YEAR EXPERIENCE.
E. VERIFY USE OF CONCRETE MIX DESIGN	PERIODIC	EACH CONCRETE POUR.	ACI 318-CH. 4, 5.2.4	QUALIFICATIONS BASED ON ASTM C1077
F. SAMPLES OF FRESH CONCRETE	CONTINUOUS	1. ALL CONCRETE TESTING IS TO BE MADE AFTER WATER, IF ANY, IS ADDED AT SITE. 2. TAKE SAMPLES & PERFORM SLUMP, AIR & COMPRESSION TESTS IN ACCORDANCE WITH ASTM C-39 ON CONCRETE PLACED EACH DAY AT THE RATE OF ONE SET OF FOUR CYLINDERS FOR EACH 80 cu. yds. OR FRACTION THEREOF. WHEN MORE THAN 80 cu. yds. IS BEING CONTINUOUSLY PLACED, THE INTERVAL BETWEEN TEST SAMPLES SHALL BE AT LEAST 90 cu. yds. 30 AS TO BE REPRESENTATIVE OF THE WHOLE DAYS POUR. SAMPLES SHALL BE TAKEN AT THE POINT OF DEPOSIT IN THE FIELD & ALL CYLINDERS SHALL BE ACCURATELY MARKED & REFERENCED TO SHOW DATE, TIME & EXACT LOCATION IN THE STRUCTURE FROM WHICH THEY CAME. MAKE 7-DAY TEST ON TWO CYLINDERS & 28-DAY TEST ON TWO CYLINDERS. REPORTS OF TESTS SHALL BE PROMPTLY SENT AS FOLLOWS: TWO TO THE PORTER (ARCHITECT), ONE TO THE ENGINEER AND ONE TO THE CONTRACTOR.	ACI 318-CH. 5.6, 5.8	QUALIFICATIONS BASED ON ASTM C1077

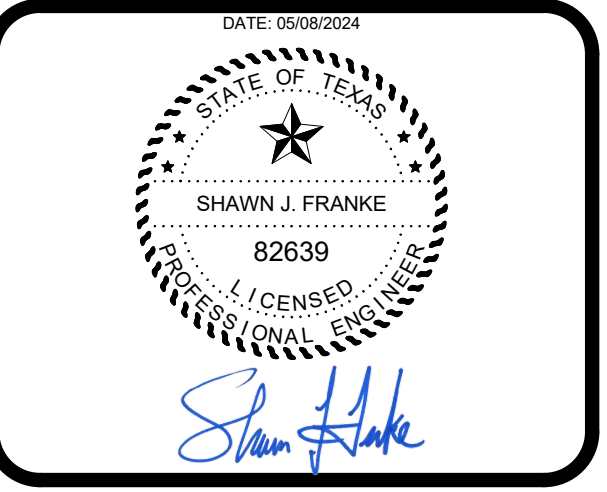
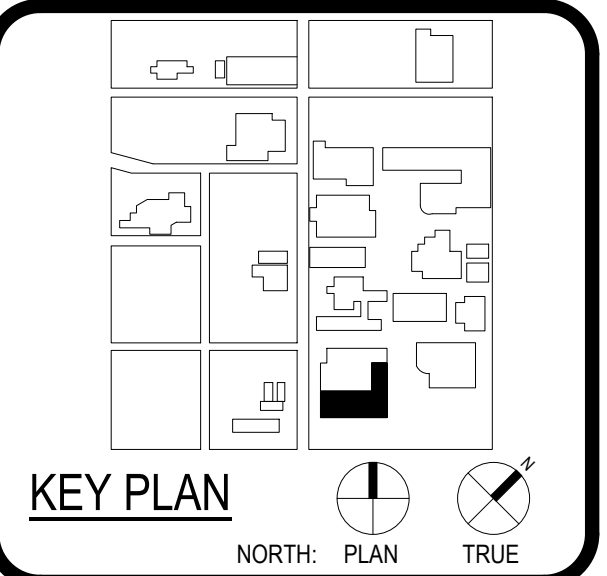


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 SAN ANTONIO, TEXAS 78232 FX 010 979-7800
 TX FIRM REG. #388

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

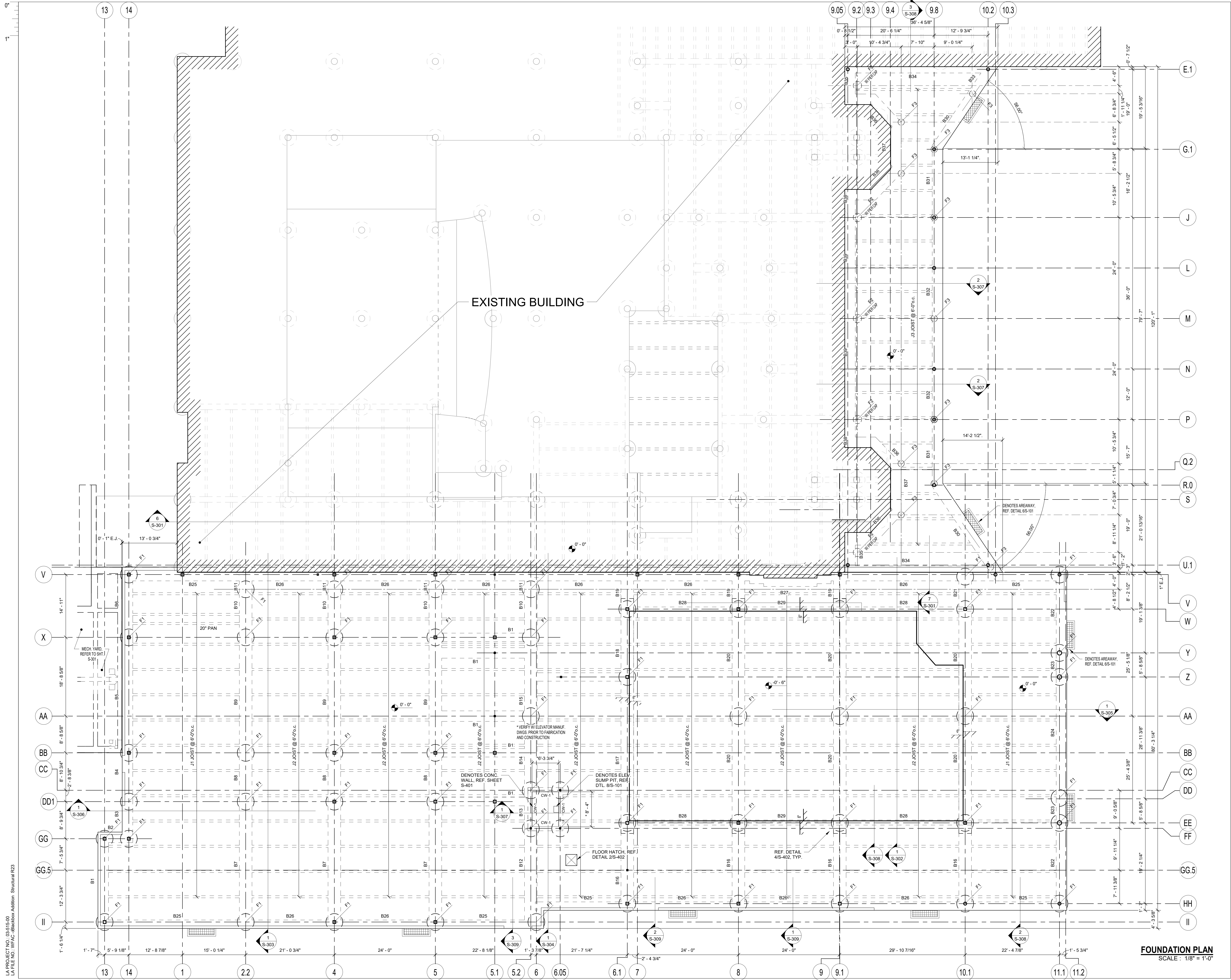


CLIENT: Alamo Colleges
 DATE: 2024/05/10
 PROJECT NUMBER: 230462

No.	Description	Date

ISSUE FOR PERMIT
 BUILDING NUMBER: AB

SPECIAL INSPECTION NOTES



LA PROJECT NO. 03515-00
 LA FILE NO. WFAC-Blackbox Addition, Structural R23

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

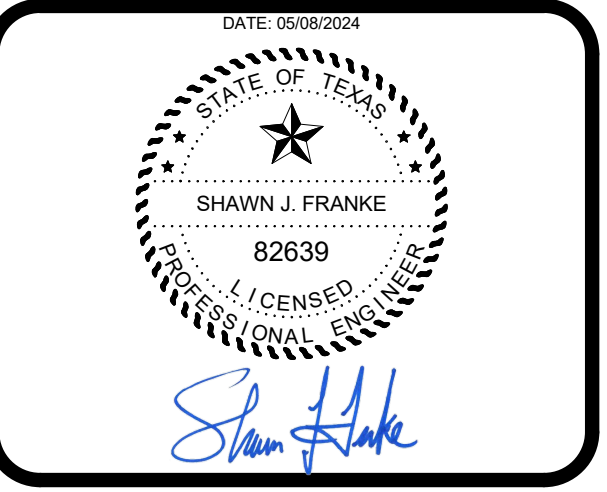
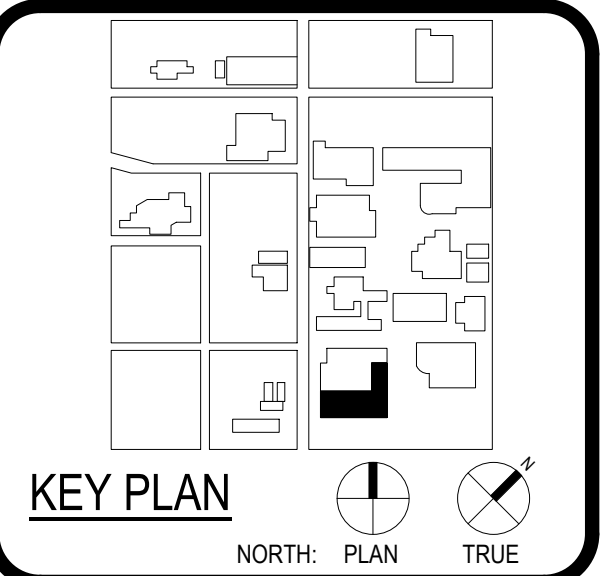
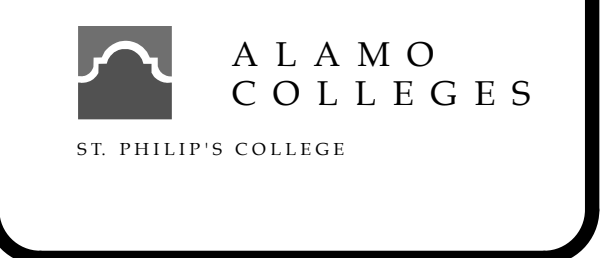


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ENGINEERING
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WFAC Black Box Addition PKG 1

1801 Main, Luther King Dr.,
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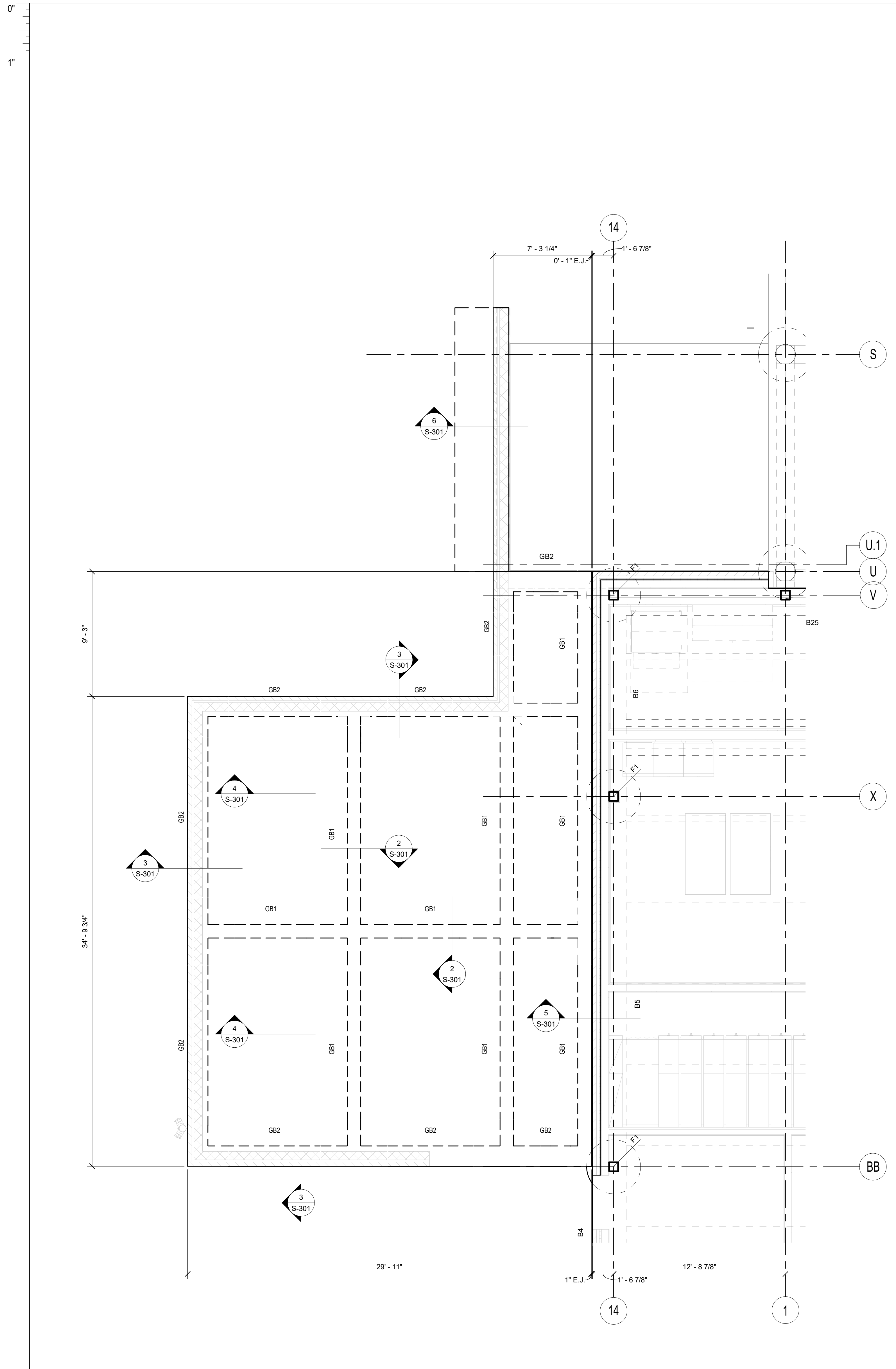


CLIENT		
Alamo Colleges	PROJECT NUMBER 230462	
DATE 2024/05/10		
DRAWING HISTORY		
No.	Description	Date

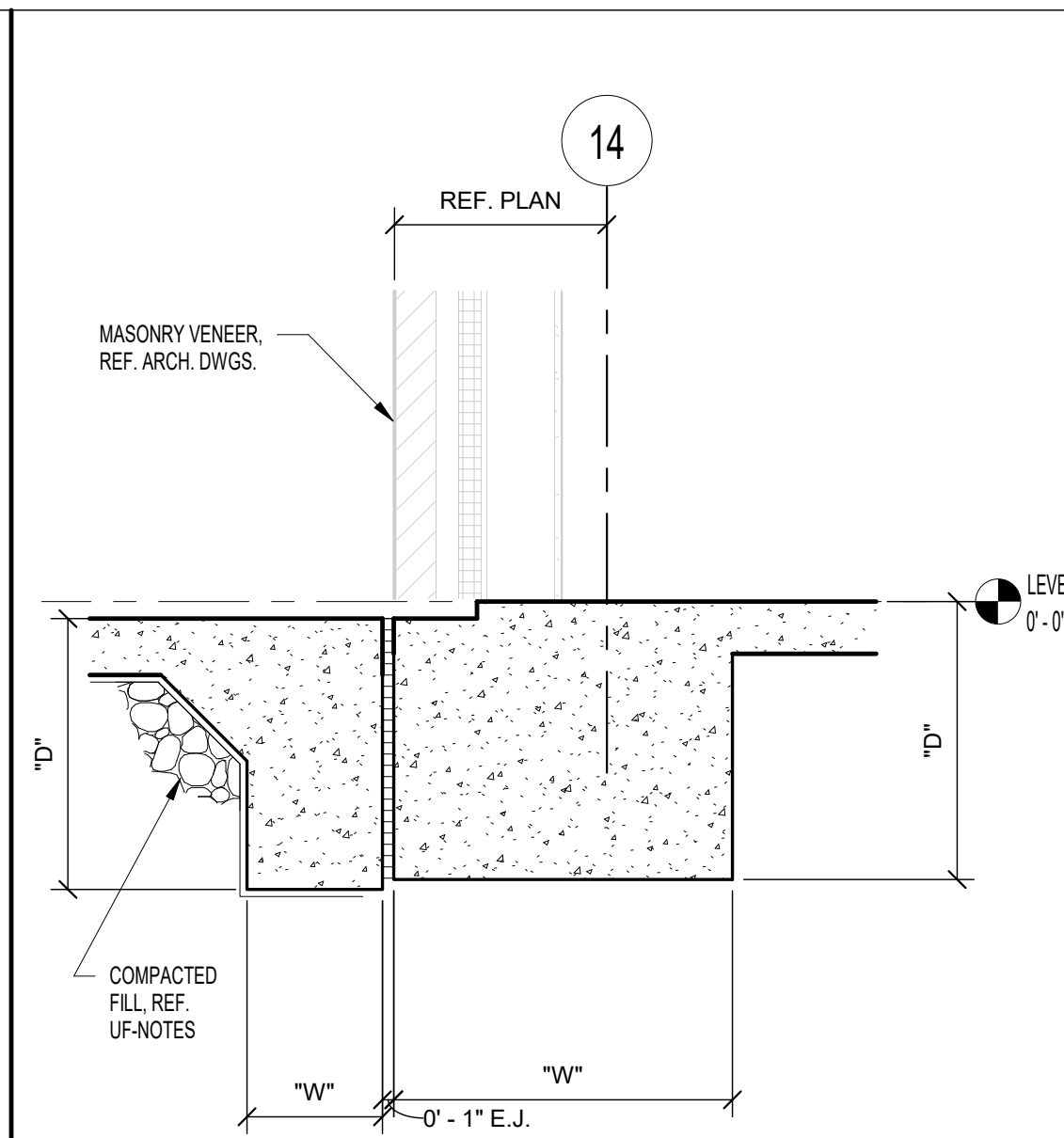
ISSUE FOR PERMIT
 BUILDING NUMBER AB

FOUNDATION FRAMING PLAN

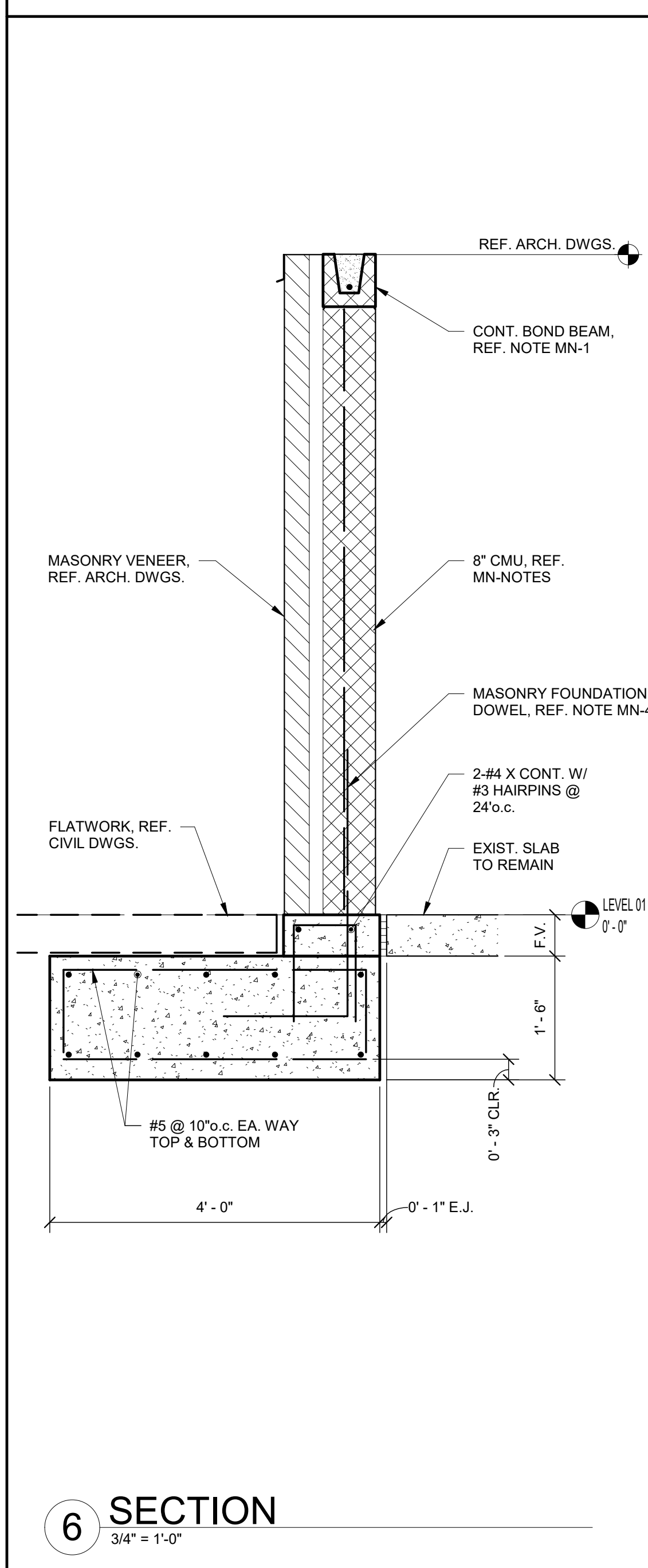
S-201



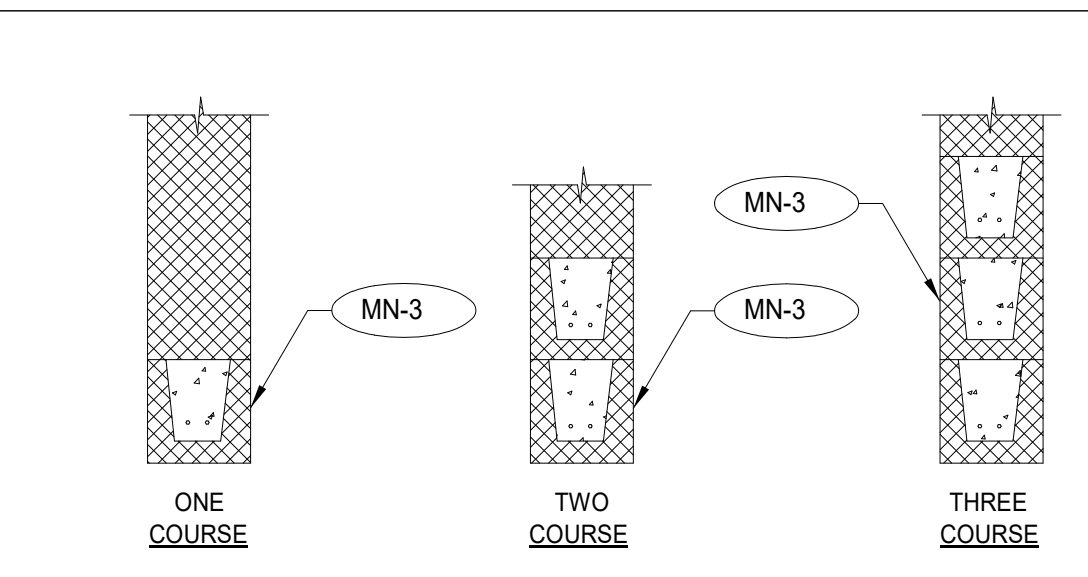
MECHANICAL YARD FOUNDATION PLAN
SCALE: 1/4" = 1'-0"



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



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



CMU LINTEL SCHEDULE

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

MASONRY WALL REINFORCEMENT:

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

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

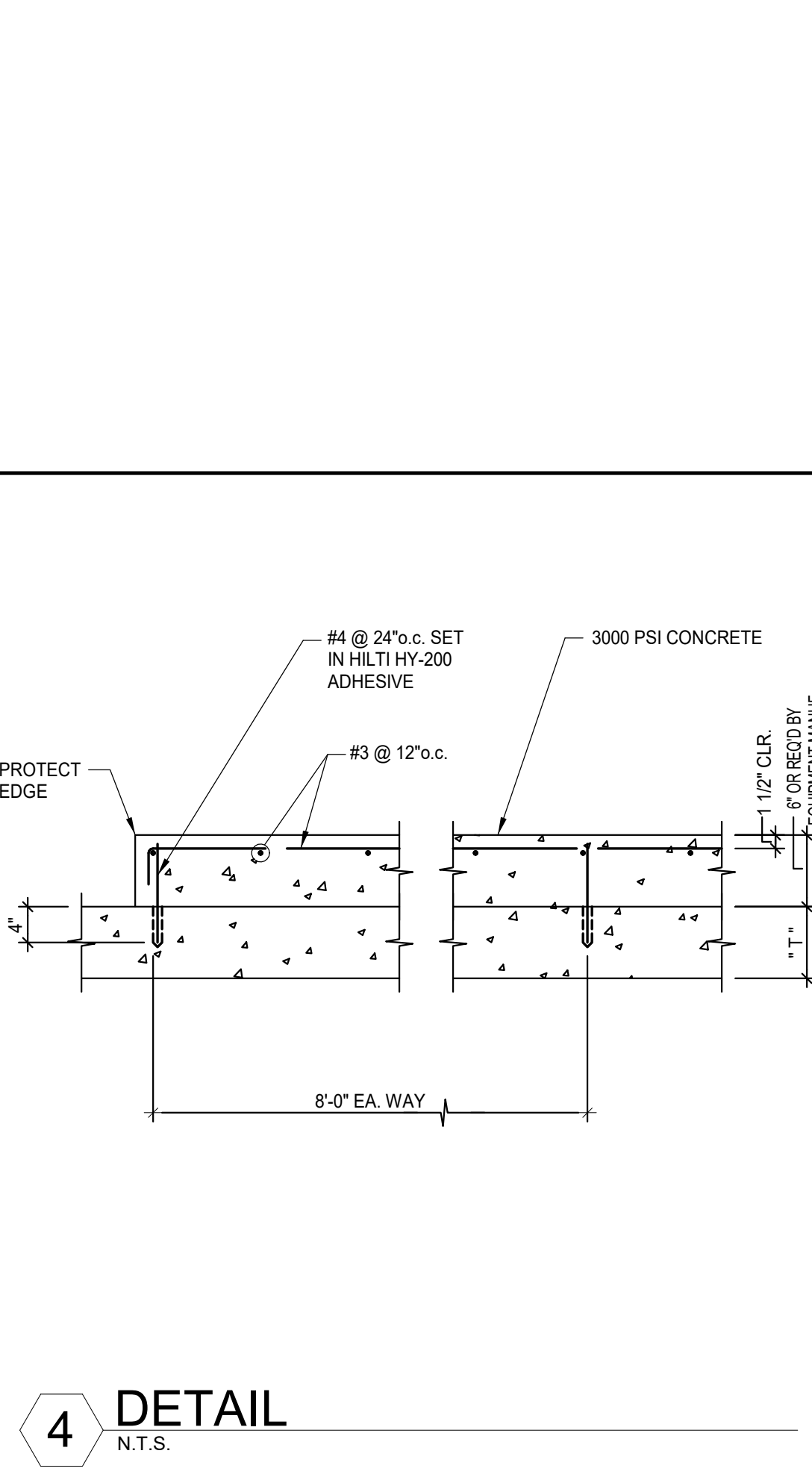
MN-3 PROVIDE GROUDED REINFORCED LINTELS WITH 8" BEARING EACH END OF ALL DOORS, WINDOWS, AND OTHER OPENINGS. USE ONE-COURSE LINTELS FOR OPENINGS UP TO 4'-0"; TWO-COURSE LINTELS FOR OPENINGS UP TO 6'-6"; THREE-COURSE LINTELS FOR OPENINGS UP TO 14'-0". REINFORCE EACH COURSE WITH 2-#5 BAR CONTINUOUS.

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

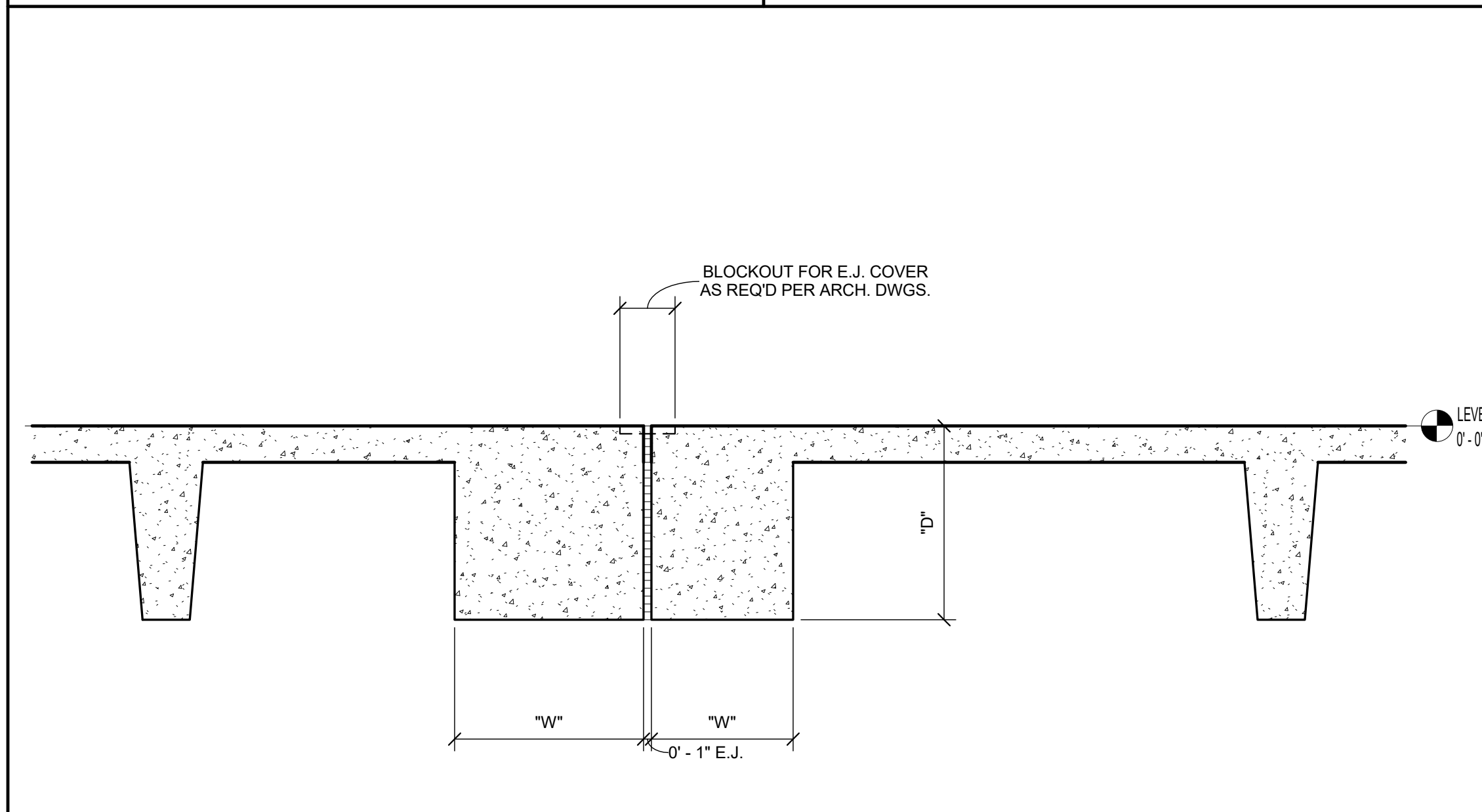
MN-5 CMU SHALL HAVE A UNIT STRENGTH OF 1,900 PSI. USE TYPE S MORTAR. REINFORCED CMU SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 7,000 PSI. GROUT FOR FILLED CELLS SHALL BE MADE OF CEMENT, SAND AND PEA GRAVEL IN APPROXIMATE RATIO OF 1:3:2 AND SHALL HAVE 28-DAY COMPRESSIVE STRENGTH OF 2,500 PSI.

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

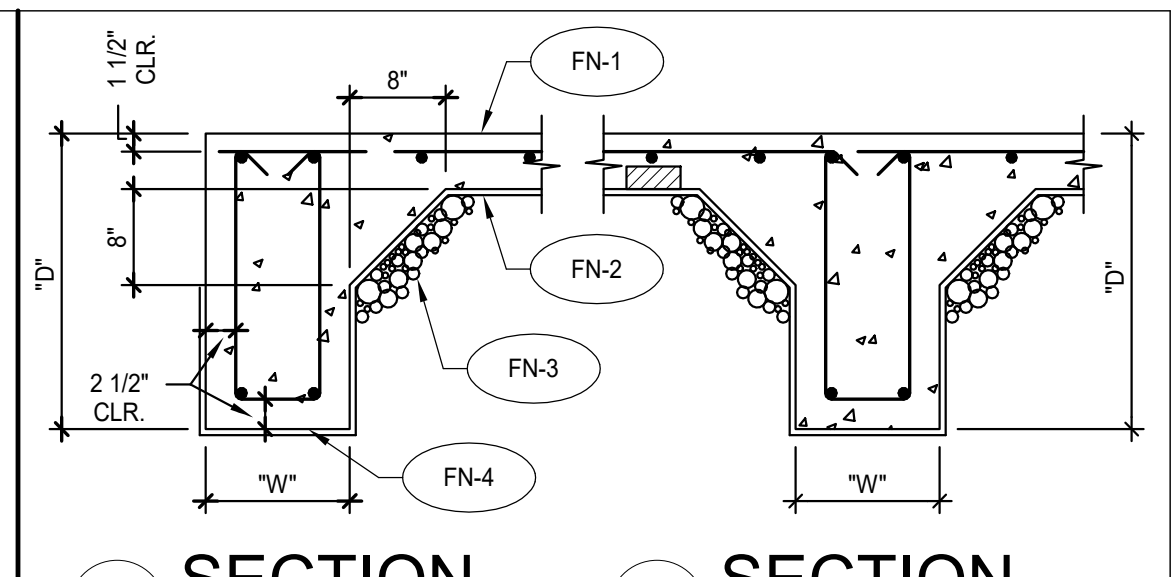
MN-7 LEVEL 1 INSPECTED MASONRY REQUIRES CONTRACTOR TO SUBMIT, AT CONTRACTOR'S COST, COMPRESSIVE WALL DESIGN STRENGTH (FM) VERIFIED BY INDEPENDENT TESTING LAB BY PRISM TESTS BEFORE MASONRY CONSTRUCTION BEGINS. PROVIDE UNIT MASONRY STRENGTH, GROUT MIX DESIGN AND MORTAR MIX DESIGN.



4 DETAIL
N.T.S.



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



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

GRADE BEAM SCHEDULE

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

* REF. NOTE FN-4

FOUNDATION NOTES:

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

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

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

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

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

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

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

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

UNDERFLOOR FILL NOTES:

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

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

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

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

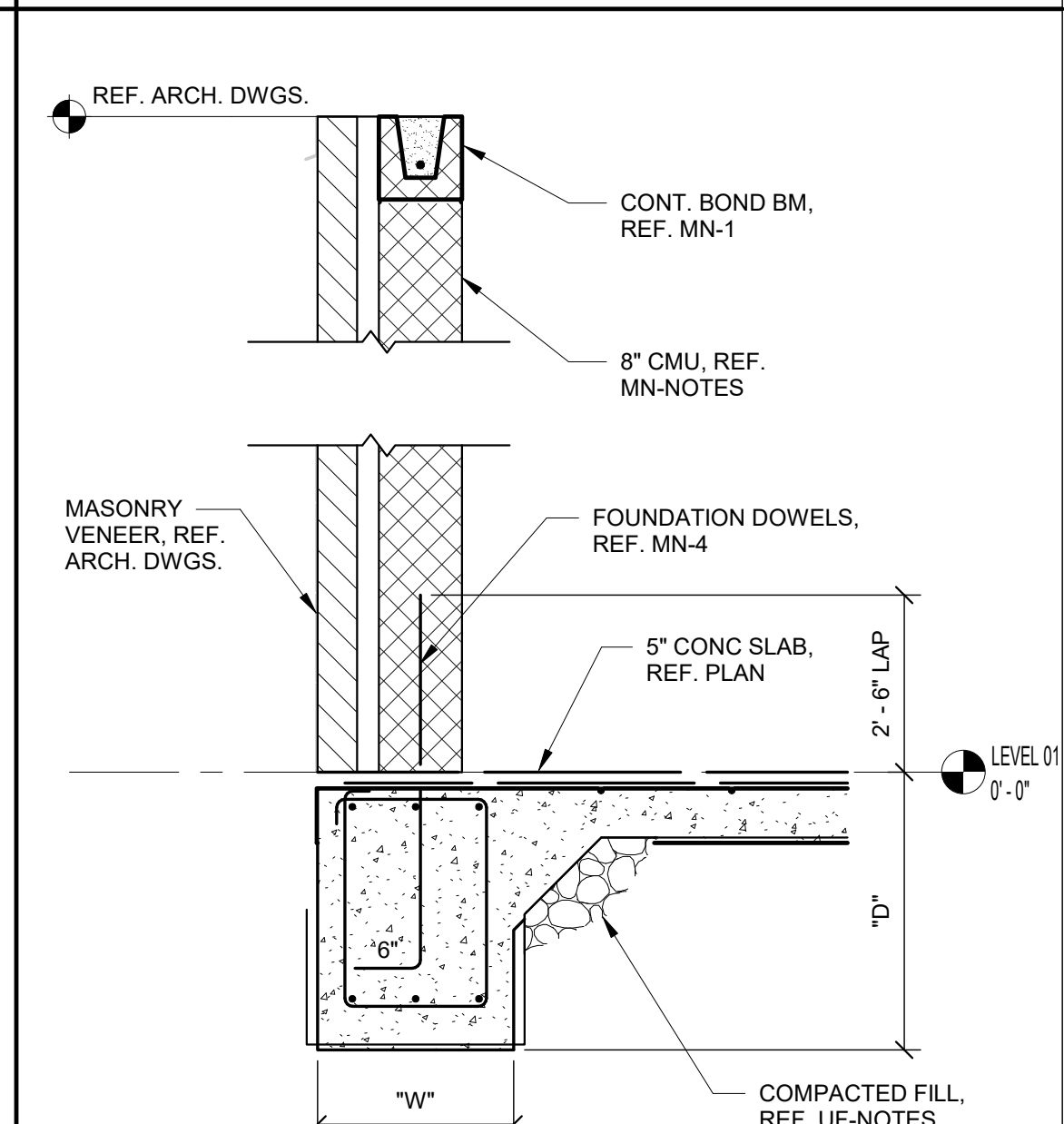
UF-5 THE ROLLED SUBGRADE SHALL BE SCARIFIED JUST PRIOR TO FILL PLACEMENT TO A MINIMUM DEPTH OF 6" AND RECOMPACTED TO MINIMUM OF 95% OF THE MAXIMUM DENSITY DETERMINED BY ASTM D698 COMPACTION TEST, MAINTAINING MOISTURE CONTENT BETWEEN -1 AND +3 PERCENTAGE POINTS UNTIL COVERED.

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

UF-7 ALL FILL SHALL BE PLACED IN 8" LOOSE HORIZONTAL LIFTS AND COMPACTED TO A MINIMUM OF 95% OF THE MAXIMUM DENSITY AS DETERMINED BY ASTM D698 COMPACTION TEST. MAINTAINING MOISTURE CONTENT BETWEEN -1 AND +3 PERCENTAGE POINTS UNTIL COVERED. EXCESS FILL AT BUILDING PERIMETER SHALL BE CUT AND GRADED TO COMPLY WITH FINISHED GRADE REQUIREMENTS, AND SHALL BE OVERLAIN WITH A 1'-0" THICK LAYER OF IMPERVIOUS CLAY FOR A MINIMUM DISTANCE OF 5'-0" FROM BUILDING LINE. REFER TO DETAIL 777.

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

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



3 DETAIL
N.T.S.



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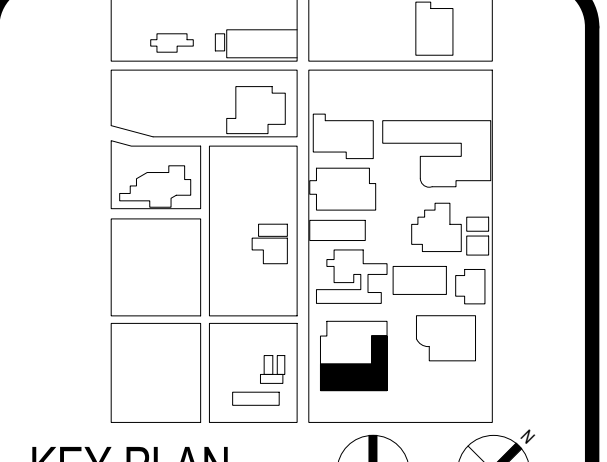


568 HEIMER ROAD
SAN ANTONIO, TEXAS 78232
TX FIRM REG. #388

WFAC Black Box Addition PKG 1



ST. PHILIP'S COLLEGE



KEY PLAN
NORTH PLAN TRUE



CLIENT Alamo Colleges
DATE 2024/05/10 PROJECT NUMBER 230462

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PERMIT
BUILDING NUMBER AB

SECTIONS, DETAILS & MECH. YARD FOUNDATION

S-301

0'
1'

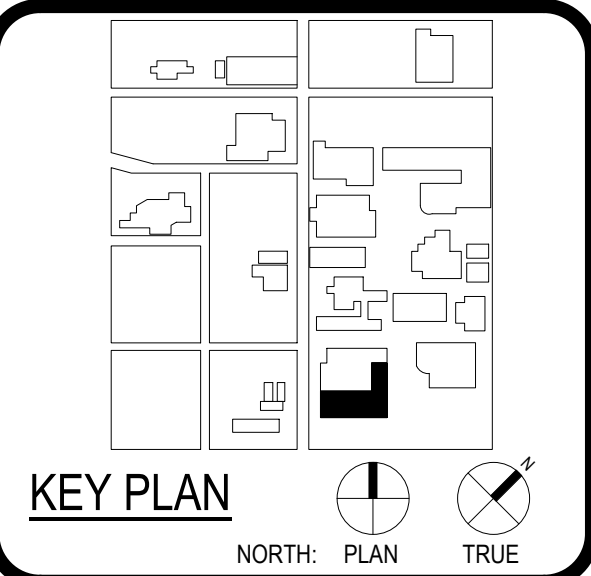
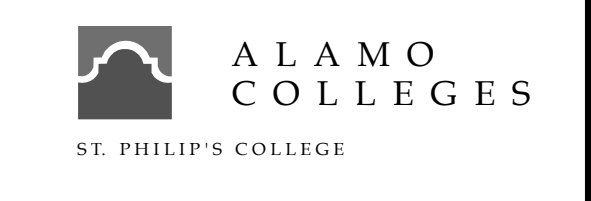


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ASSOCIATE ARCHITECT	BA ARCHITECTS 1310 W. Loop San Antonio, TX 78204 210-591-8800
CONSULTANT	LANDSCAPE LUNDY & FRANKE ENGINEERING 548 HEIMER ROAD SAN ANTONIO, TEXAS 78232 TX FIRM REG. #3388
ENGINEER	LUNDY & FRANKE ENGINEERING 548 HEIMER ROAD SAN ANTONIO, TEXAS 78232 TX FIRM REG. #3388
PROFESSOR	SHAWN J. FRANKE 82639 LICENSED PROFESSIONAL ENGINEER



WFAC Black Box Addition PKG 1

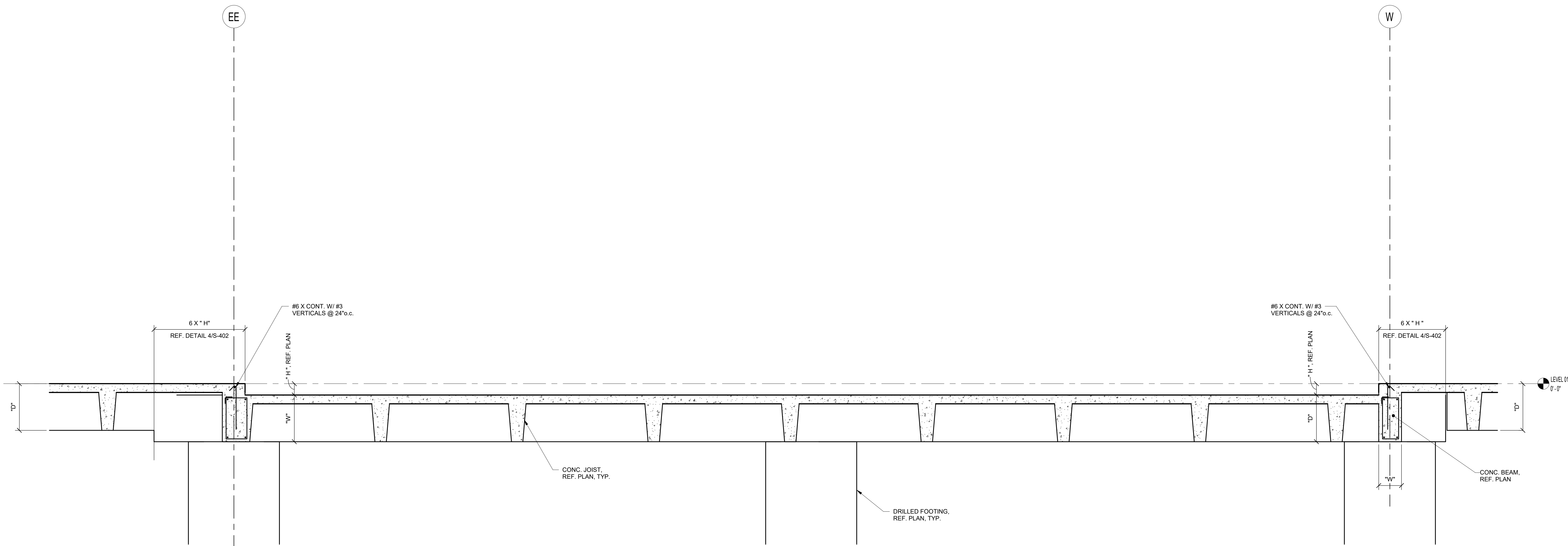
1801 Mathis Luther King Dr.,
San Antonio, TX 78203
ISSUE FOR PERMIT



CLIENT		
Alamo Colleges	PROJECT NUMBER	
DATE	230462	
2024/05/10		
DRAWING HISTORY		
No.	Description	Date
ISSUE FOR PERMIT		
BUILDING NUMBER	AB	

SECTION

S-302



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

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

0'
1'

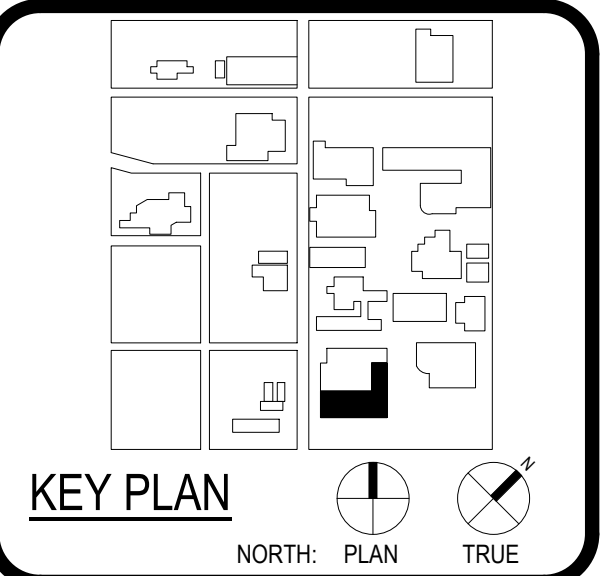


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ASSOCIATE ARCHITECT	MAX ARCHITECTS
CONTRACTOR	CH2M HILL
DESIGNER	T.Y. LINCOLN
LANDSCAPE	LANDSCAPE
ROSE AND DESIGN	T.Y. LINCOLN
STRUCTURAL	LUNDY & FRANKE ENGINEERING
MEP	MEP
PROVISIONS	PROVISIONS
BEAM PROFESSIONALS	BEAM PROFESSIONALS
MEASUREMENT	MEASUREMENT
DATE	12.20.2024

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

WFAC Black Box Addition PKG 1

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



DATE: 06/08/2024

SHAWN J. FRANKE
82639
LICENSED PROFESSIONAL ENGINEER

Shawn Franke

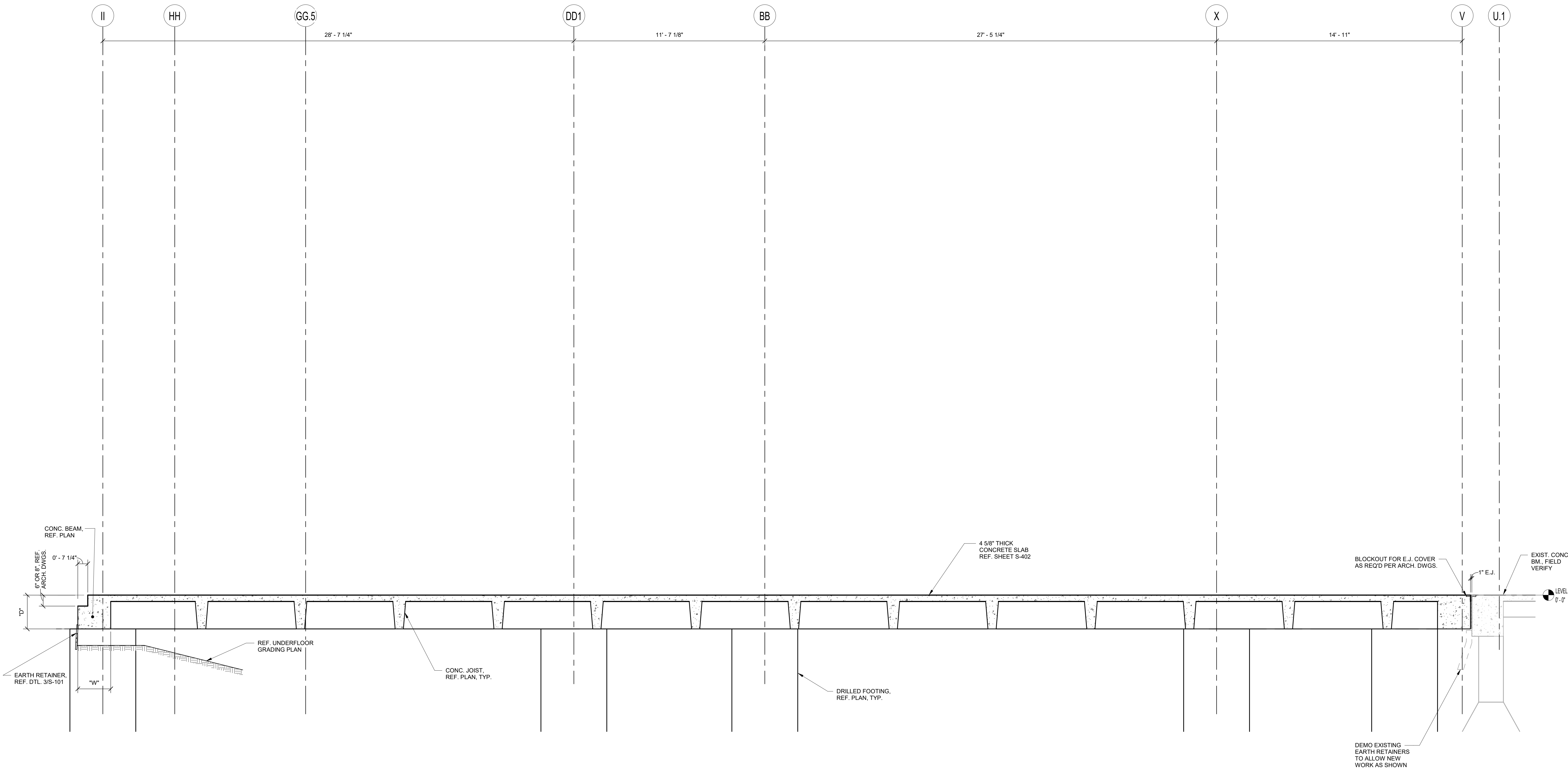
CLIENT	Alamo Colleges		
DATE	2024/05/10	PROJECT NUMBER	230462
DRAWING HISTORY			
No.	Description	Date	

ISSUE FOR PERMIT

BUILDING NUMBER AB

SECTION

S-303



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

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

0'
1'

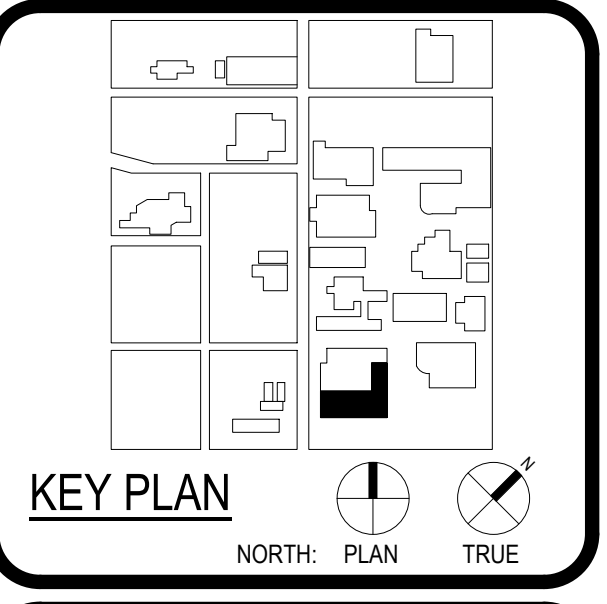


ARCHITECT	PBK Architects, Inc.
SAN ANTONIO 601 N.W. Loop 410, Suite 400 San Antonio, TX 78216 210-823-0123 P 210-823-5578 F TX Firm BR 1606	
ASSOCIATE ARCHITECT	BA ARCHITECTS
OWNER	ALAMO COLLEGES
DESIGNER	ALAMO COLLEGES
LANDSCAPE	ALAMO COLLEGES
ROOF AND CEILING	ALAMO COLLEGES
STRUCTURAL	LUNDY & FRANKE ENGINEERING
M.E.P.	LUNDY & FRANKE ENGINEERING
MECHANICAL	LUNDY & FRANKE ENGINEERING
ELECTRICAL	LUNDY & FRANKE ENGINEERING
PLUMBING	LUNDY & FRANKE ENGINEERING
MECHANICAL	LUNDY & FRANKE ENGINEERING
MECHANICAL	LUNDY & FRANKE ENGINEERING

LUNDY & FRANKE ENGINEERING
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WFAC Black Box Addition PKG 1

1801 Mathis Luther King Dr.,
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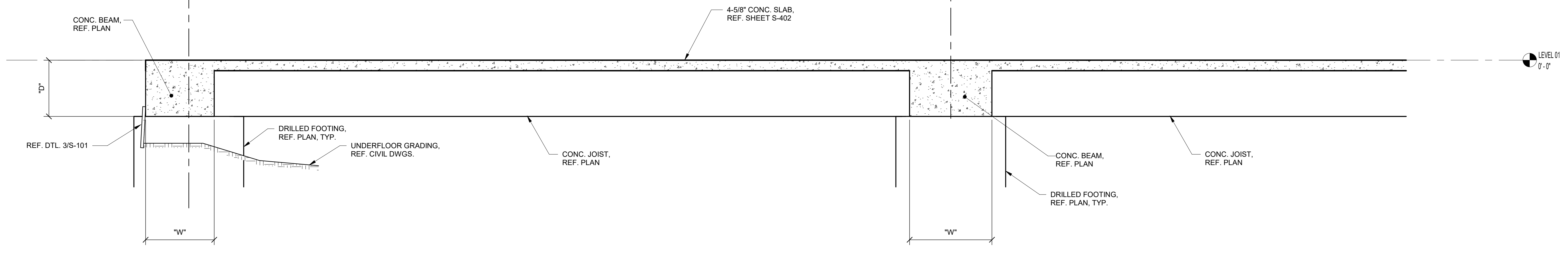
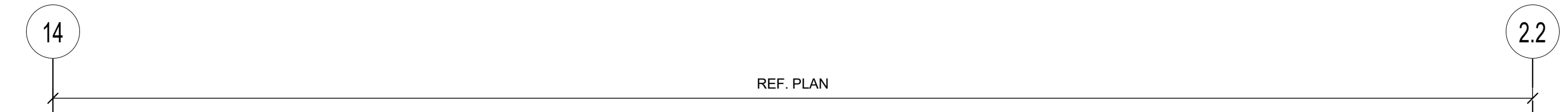


CLIENT		
Alamo Colleges	PROJECT NUMBER	
DATE	230462	
2024/05/10		
DRAWING HISTORY		
No.	Description	Date

ISSUE FOR PERMIT
 BUILDING NUMBER AB

SECTION

S-306

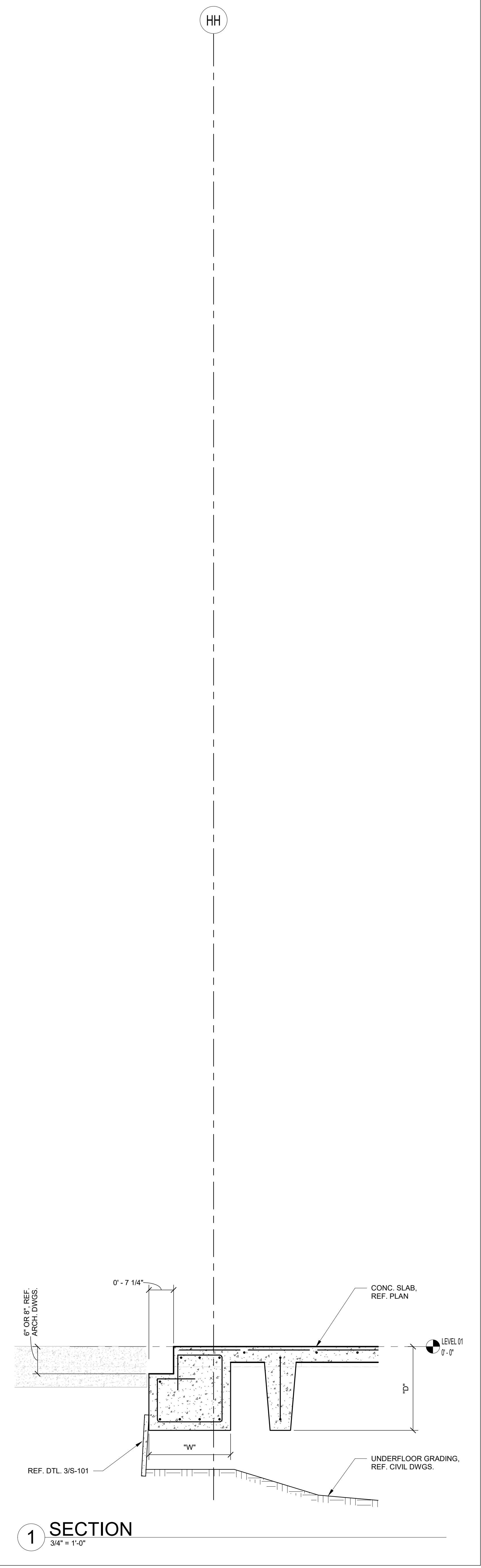
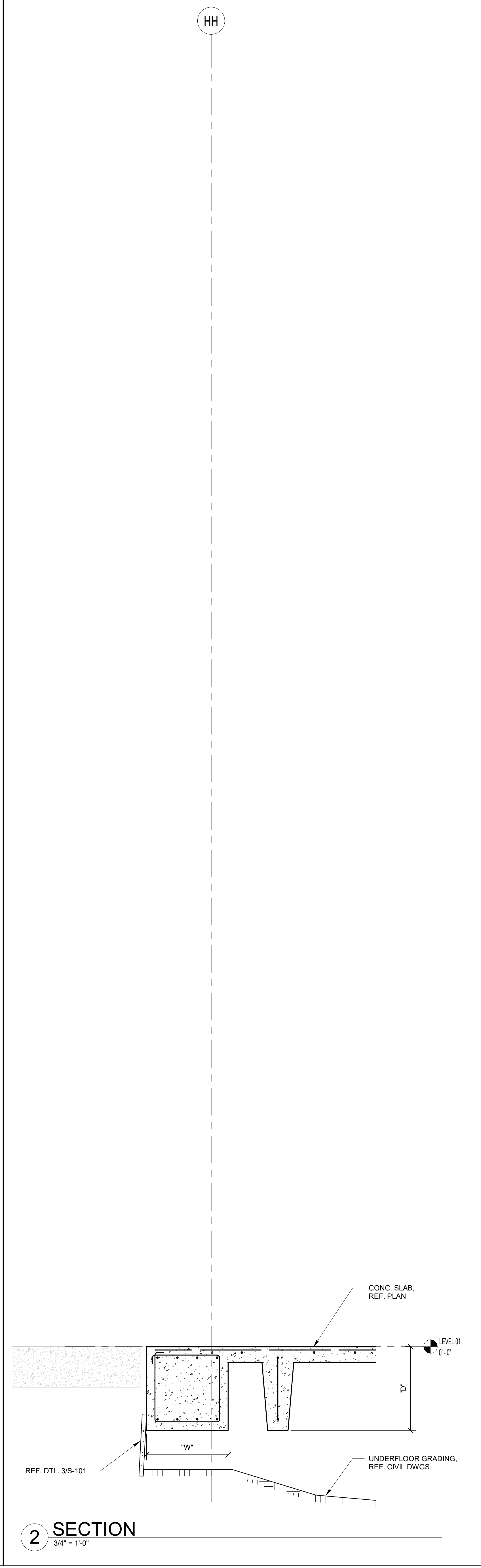
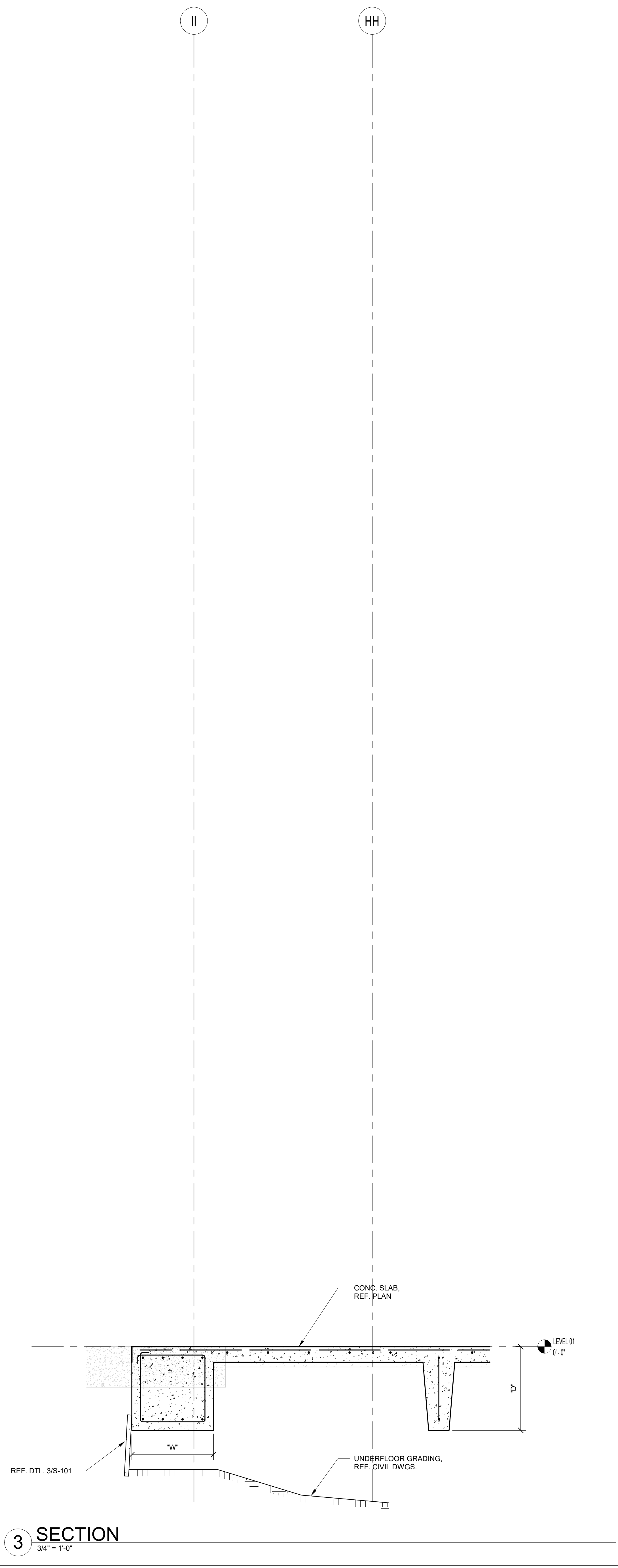


1 SECTION
 1/2" = 1'-0"

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

0'
1'

LA PROJECT NO.: 03/315-00
LA FILE NO.: WFAC-Blackbox Addition Structural R23

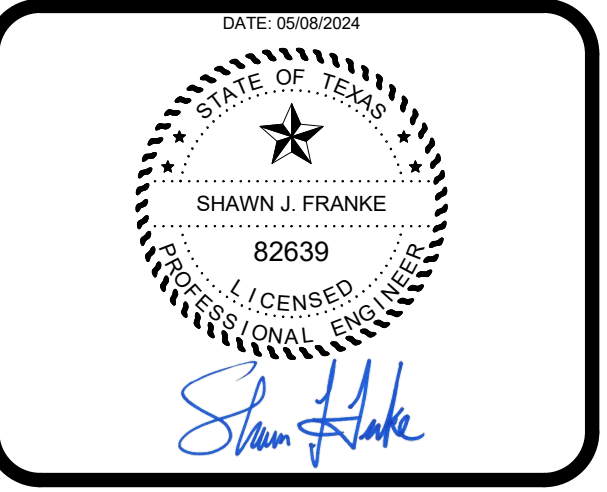
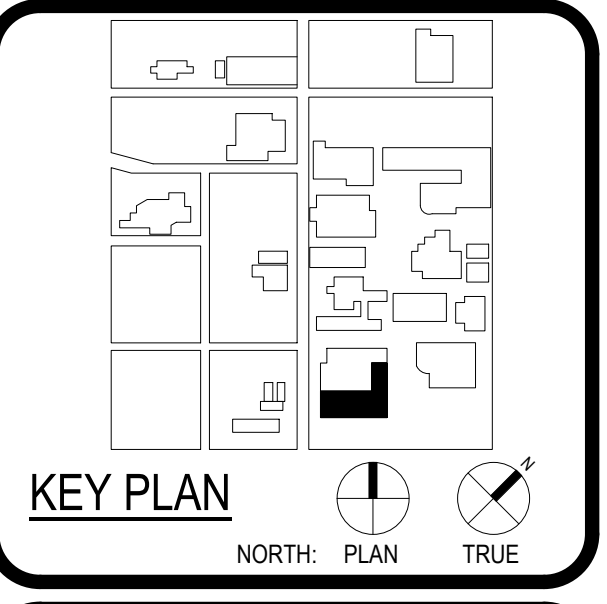


ARCHITECT	PBK Architects, Inc.
SAN ANTONIO 601 N.W. Loop 410, Suite 400 San Antonio, TX 78216 210-823-0123 P 210-823-5578 F TX Firm BR 1606	
ASSOCIATE ARCHITECT	BA ARCHITECTS
DESIGNER	BA ARCHITECTS
LANDSCAPE	BA ARCHITECTS
ROOF AND DRIP	BA ARCHITECTS
STRUCTURAL	LUNDY & FRANKE ENGINEERING
MEP	LUNDY & FRANKE ENGINEERING
PROVISIONS	LUNDY & FRANKE ENGINEERING
BEAM PROFILES	LUNDY & FRANKE ENGINEERING
MECHANICAL	LUNDY & FRANKE ENGINEERING
PLUMBING	LUNDY & FRANKE ENGINEERING

LUNDY & FRANKE ENGINEERING
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TX FIRM REG. #3388

WFAC Black Box Addition PKG 1

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San Antonio, TX 78203
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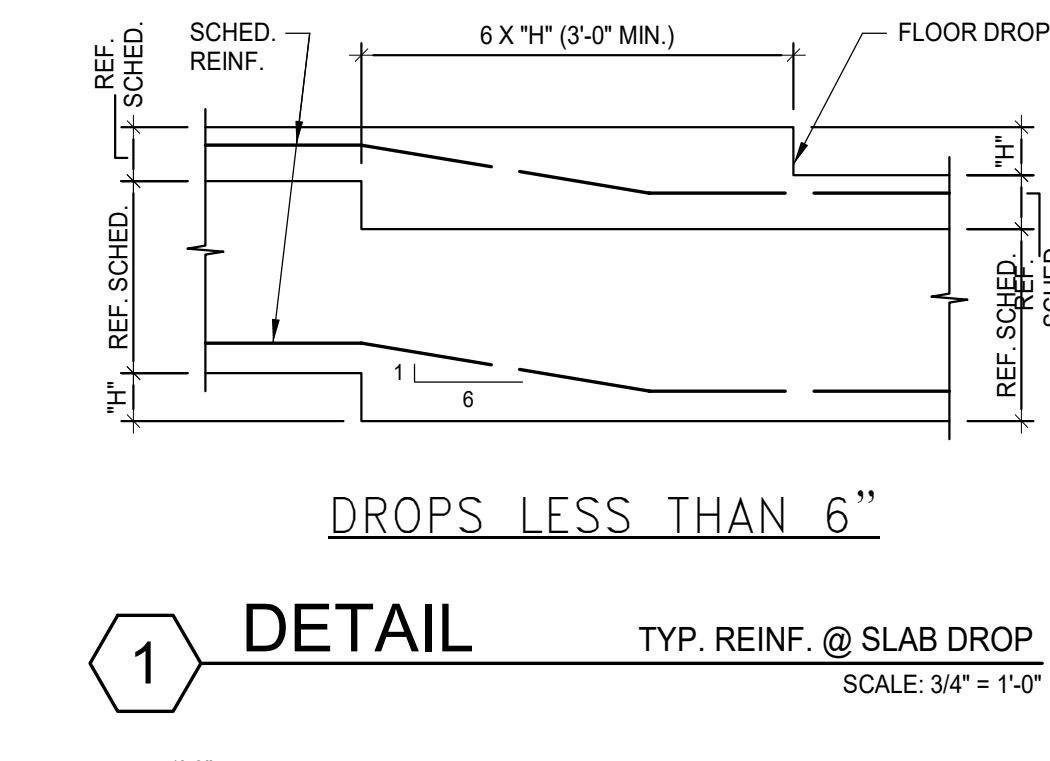
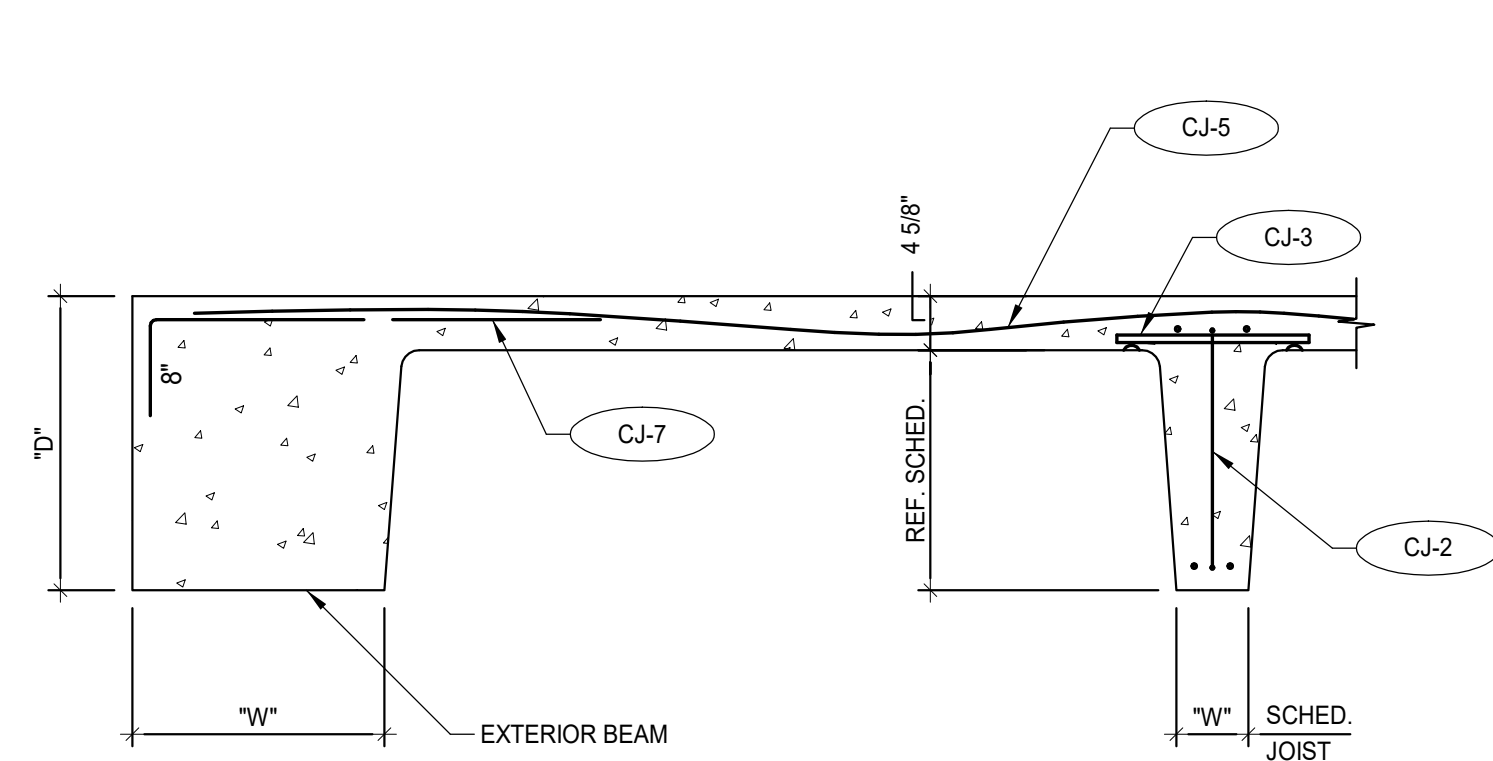


CLIENT		
Alamo Colleges	PROJECT NUMBER	
DATE	230462	
2024/05/10		
DRAWING HISTORY		
No.	Description	Date
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BUILDING NUMBER	AB	

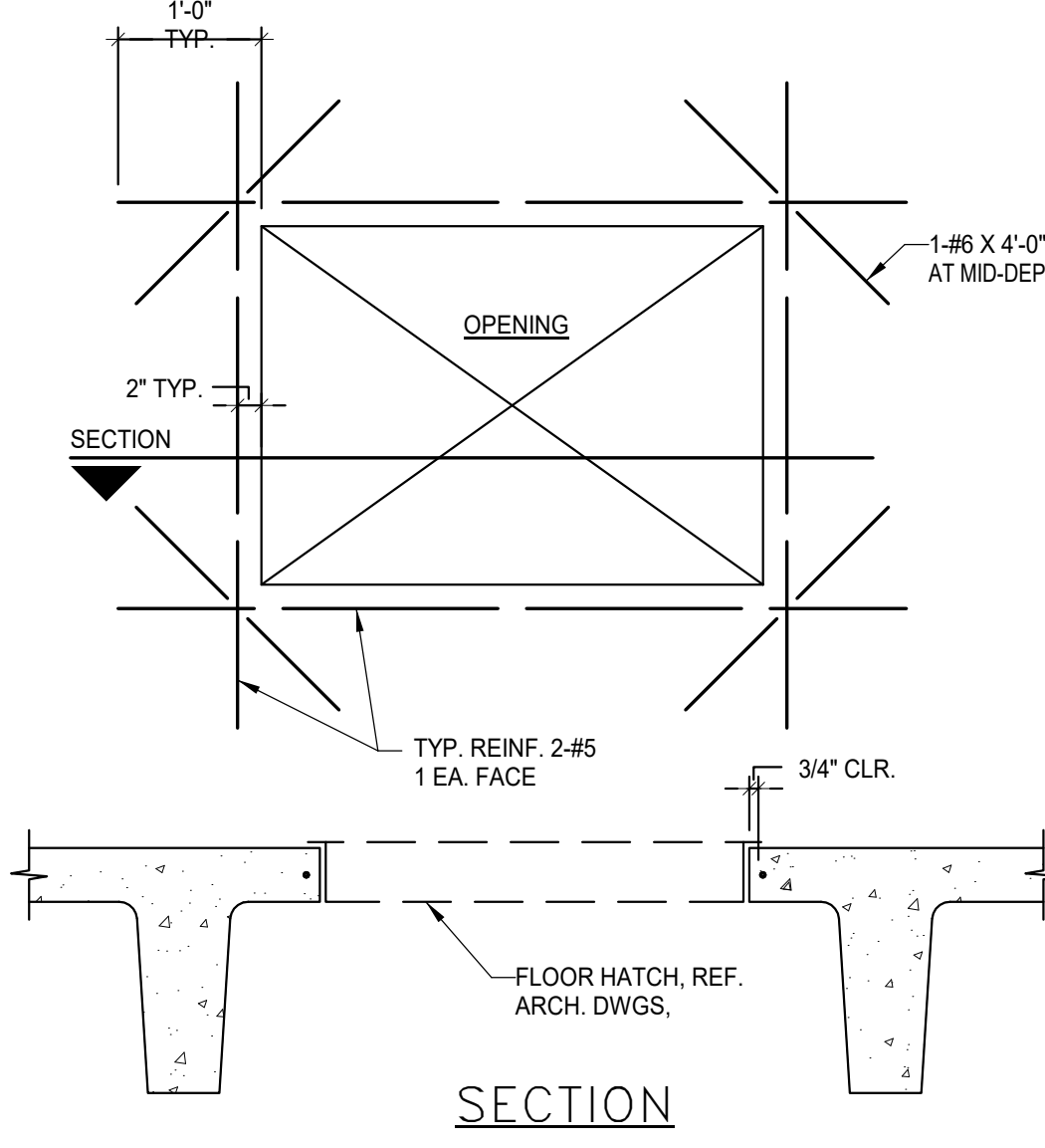
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S-309

0'
1'

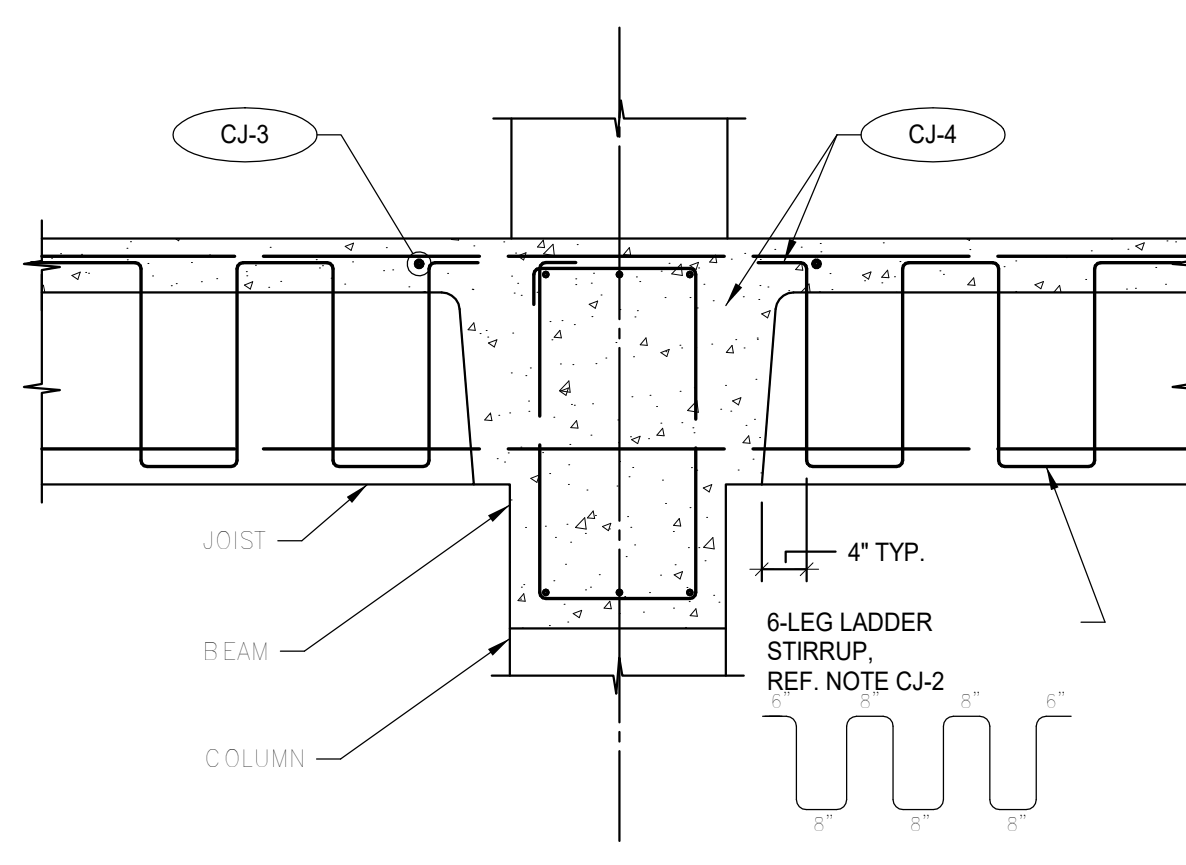
1st FLOOR CONCRETE JOIST SCHEDULE															
MARK	SIZE			MAIN REINFORCING						STIRRUPS			REMARKS		
	W	D	SECT.	SPCG.	TOP BARS		BOTTOM BARS		TOP BARS AT SUPPORT		SIZE	NO. LEGS		SPACING AT EACH END OF JOIST	
					REINF.	TYP.	REINF.	TYP.	REINF.	TYP.	SUPP.				
J1	6	20		6'-0"	2-#6	T2	1-#8	B6	-	-	-	#4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



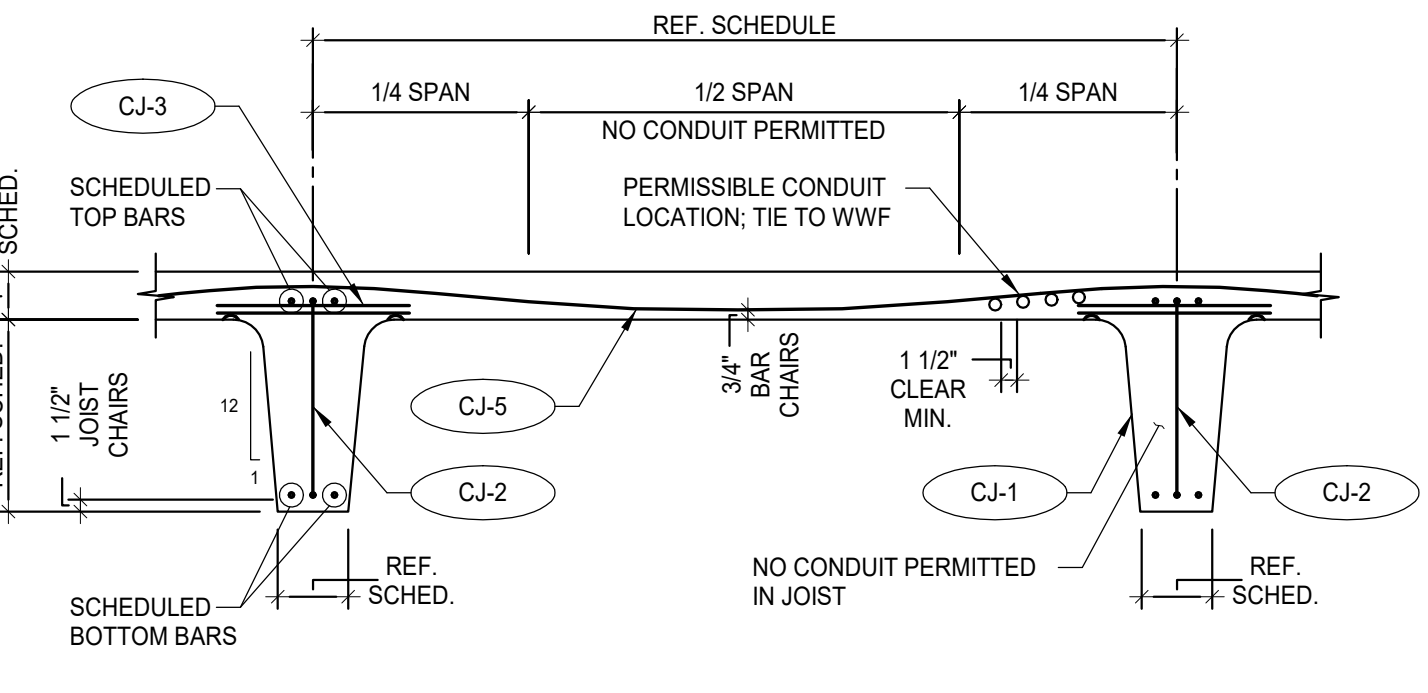
1 DETAIL TYP. REINF. @ SLAB DROP SCALE: 3/4" = 1'-0"



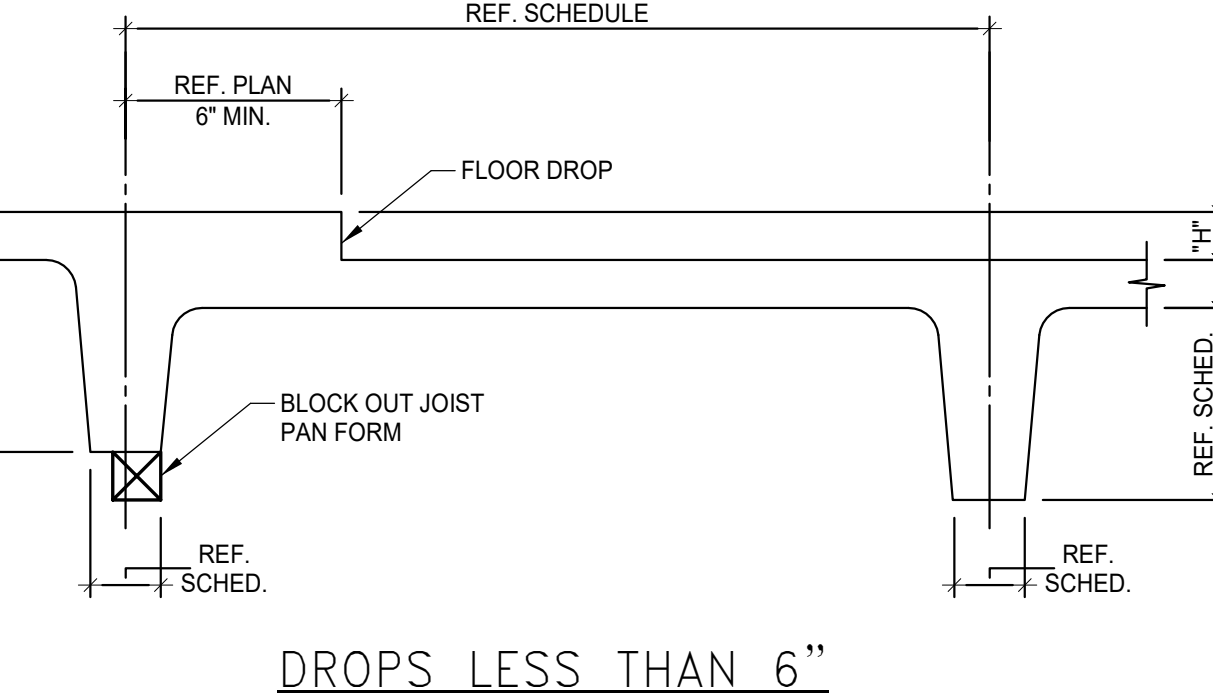
2 DETAIL TYP. SLAB REINF. @ ACCESS HATCH SCALE: 3/4" = 1'-0"



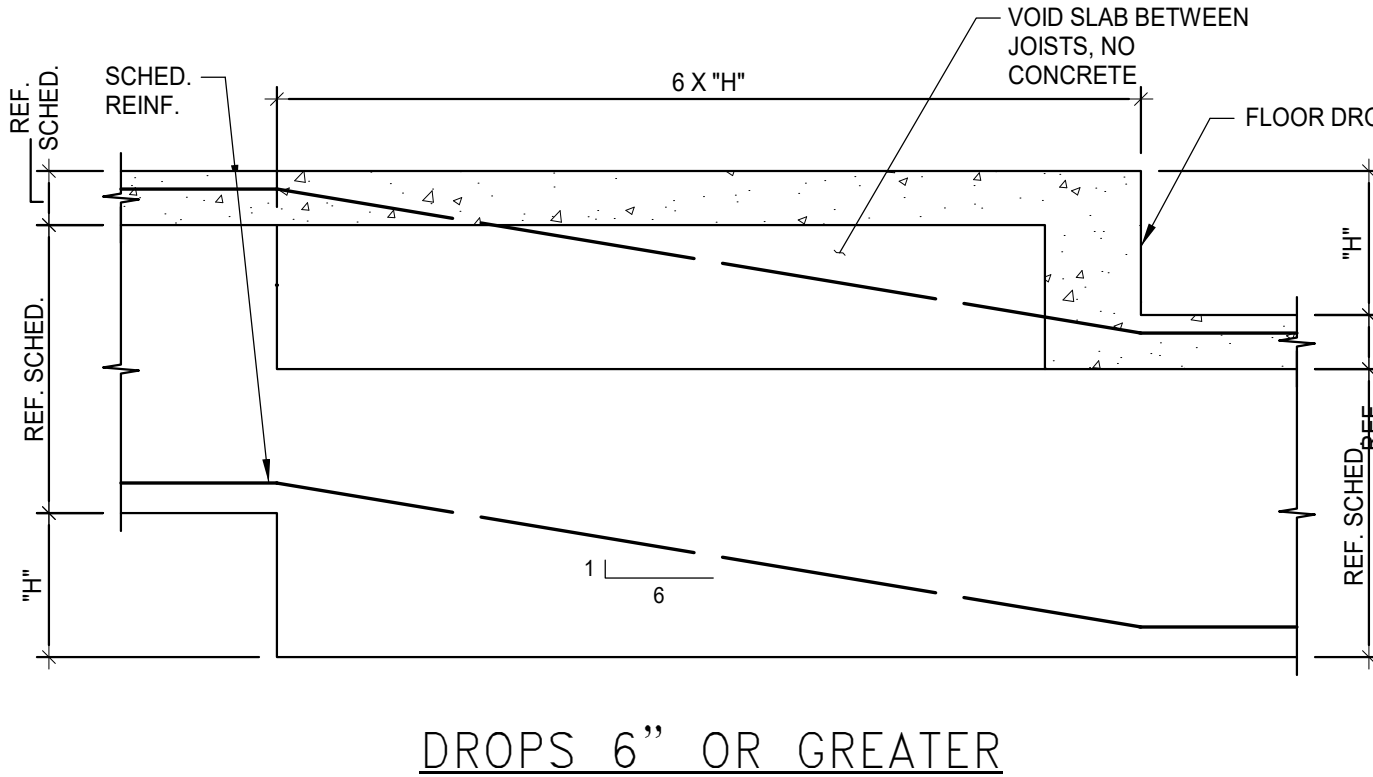
3 DETAIL TYP. REIN. @ INT. BM. SCALE: 3/4" = 1'-0"



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



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



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

CONCRETE JOIST NOTES:

CJ-1 STEEL PAN-JOIST FORMS SHALL BE SPACED SO THAT JOISTS IN ADJACENT SPANS ARE IN EXACT ALIGNMENT UNLESS SHOWN OTHERWISE. NARROWER WIDTH FORMS SHALL BE COORDINATED WITH BASIC SPACING WHERE MAKE-UPS ARE REQUIRED.

CJ-2 WHERE STIRRUPS ARE SCHEDULED, (1) 6-LEG LADDER STIRRUP ASSEMBLY WITH VERTICAL LEGS AT 11" O.C. IS THE MINIMUM. IF SCHEDULE CALLS FOR MORE THAN 6 LEGS, USE A COMBINATION OF LADDER STIRRUP ASSEMBLIES TO PROVIDE REQUIRED NUMBER OF LEGS AT SPACING SCHEDULED.

CJ-3 JOIST TOP BARS SHALL BE SUPPORTED ON 1" DIA. X 1'-0" SUPPORT BARS PLACED ON 3/4" BAR CHAIRS ACROSS PAN FORMS AT 4'-0" O.C. TIED TO STIRRUPS BEGINNING AT FIRST LEG.

CJ-4 BEAM STEEL SHALL HAVE CLEARANCE OF 1-1/2" TO STIRRUPS AT BOTTOM AND SIDES BUT 2-1/2" AT TOP. JOIST STEEL SHALL HAVE CLEARANCE OF 1-1/2", THEREFORE, REINFORCEMENT SHALL BE PLACED IN THE FOLLOWING SEQUENCE:
 1. PLACE ALL BEAM BARS.
 2. PLACE BOTTOM JOIST BARS.
 3. PLACE SUPPORT BARS (NOTE CJ-3).
 4. PLACE TOP JOIST BARS.
 5. PLACE EXTRA SLAB BARS (NOTE CJ-7).
 6. PLACE WELDED WIRE FABRIC.

CJ-5 REINFORCE SLAB WITH 4x4-W3.5x3.5 WELDED WIRE FABRIC, LAPPED 1-1/2 MESHES AT SPLICES. DRAPE OVER TOP JOIST BARS AND TIE DOWN SECURELY IN BOTTOM OF SLAB MIDWAY BETWEEN JOISTS. 3/4" OFF BOTTOM WITH BAR CHAIRS AND TIED TO FROM AT 24" O.C. MESH SHALL EXTEND OVER THE ENTIRE WIDTH OF BEAMS.

CJ-6 WHERE FLOOR DROPS (DEPRESSIONS) OCCUR, ADJUST PAN FORMS SO THAT SLAB THICKNESS IS MAINTAINED AS SHOWN IN DETAILS.

CJ-7 WHERE JOIST RUN PARALLEL TO BEAMS OR WALLS, PROVIDE #3 DOWELS AT 2'-0" O.C. AT EDGE BEAMS ONLY. (SEE DETAIL).

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

CJ-9 IF VERTICAL MECHANICAL SLEEVE PROJECTS INTO A JOIST BY MORE THAN 1-1/2", WIDEN JOIST BY USING NEXT SMALLER PAN WIDTH FOR A DISTANCE OF 4'-0" BOTH SIDES OF SLEEVE AND FIELD DRAPE BARS AROUND SLEEVES (NO TORCHING).

CJ-10 CONDUITS IN 4-1/2" SLABS SHALL NOT BE LARGER THAN 1" DIAMETER, WHERE CONDUIT IS PARALLEL (OR NEARLY PARALLEL) TO JOIST, DO NOT LOCATE IN CENTER THIRD OF SLAB SPAN.

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

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



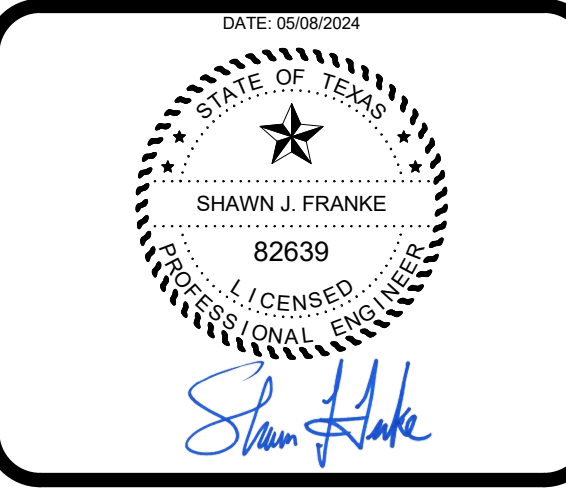
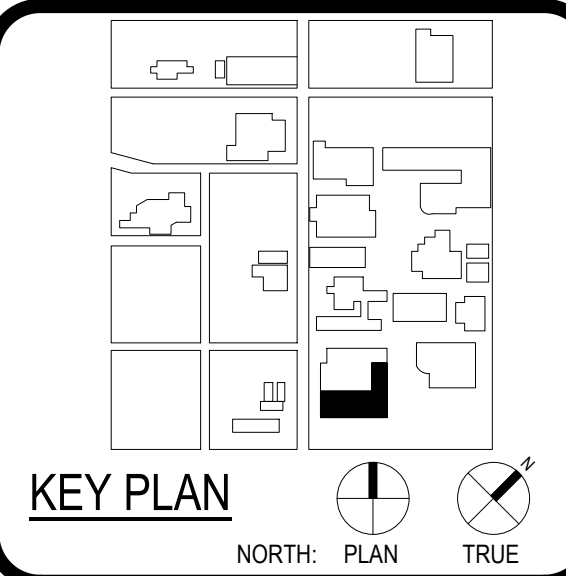
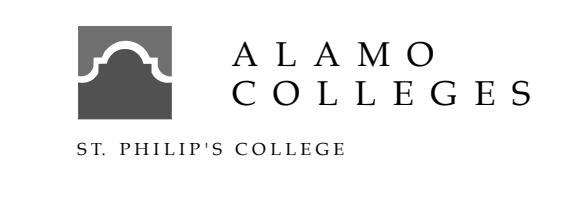
ARCHITECT PBK Architects, Inc.
 SAN ANTONIO
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 210-820-0123 P.
 210-829-5578 F.
 TX Firm BR 1606



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

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



CLIENT Alamo Colleges
 DATE 2024/05/10 PROJECT NUMBER 230462

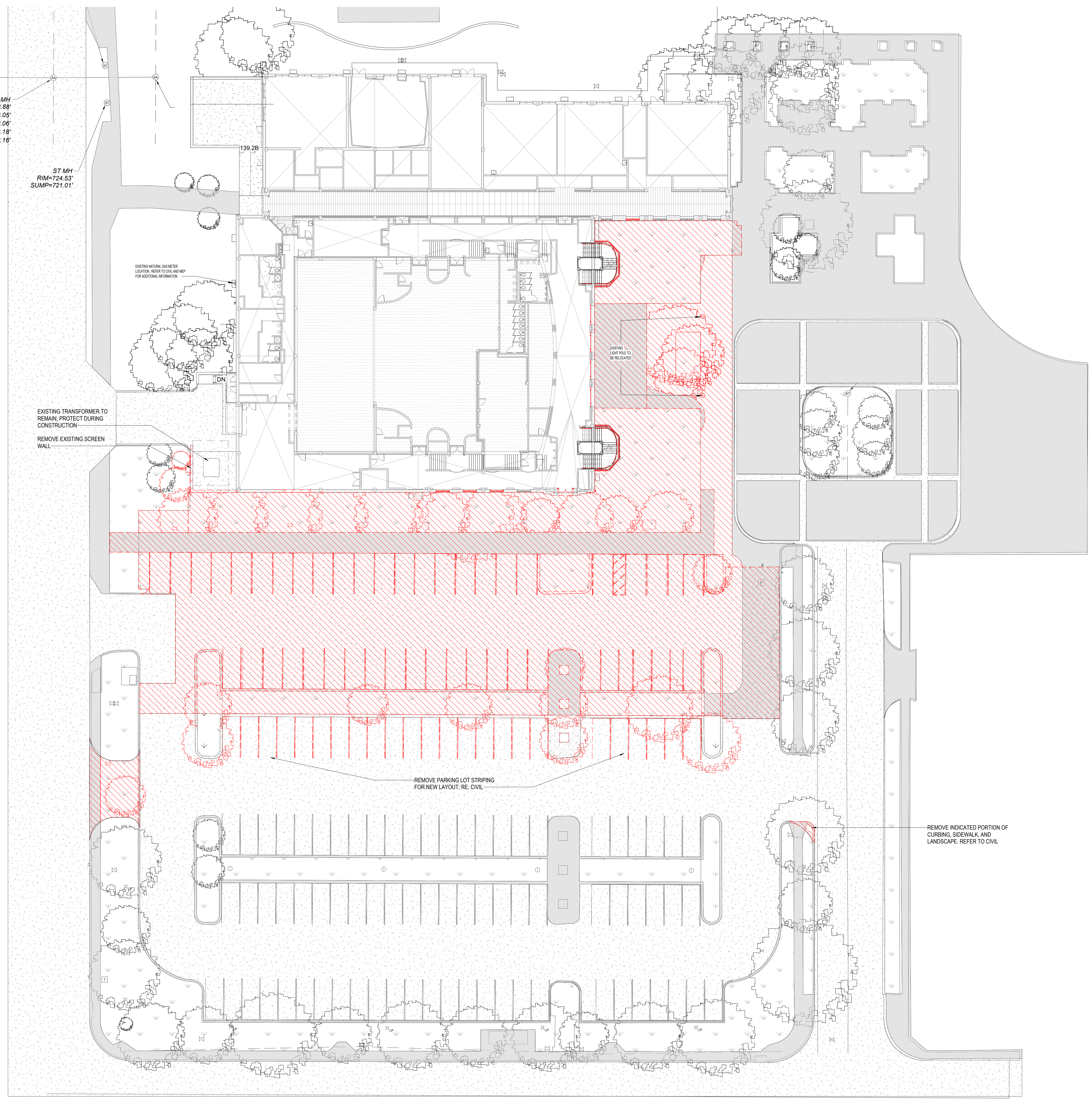
No.	Description	Date

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 BUILDING NUMBER AB

CONC. JOIST SCHED,
 NOTES & DETAILS

S-402

ISSUE FOR PERMIT



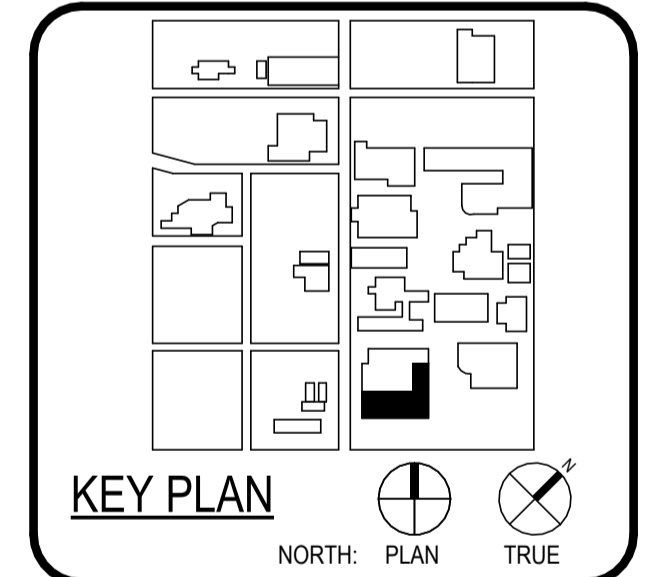
GENERAL SITE DEMOLITION NOTES

- 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	LANDSCAPE
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San Antonio, TX 78216	
210-829-0123 P	
210-829-0578 F	
TX Firm BR 1608	
ARCHITECT	ENGINEERING
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210-829-0578 F	
TX Firm BR 1608	

WFAC Black Box Addition PKG 1



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Alamo Colleges		
DATE	PROJECT NUMBER	
2024/05/10	230462	
DRAWING HISTORY		
No.	Description	Date

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BUILDING NUMBER

DEMOLITION ARCHITECTURAL SITE PLAN

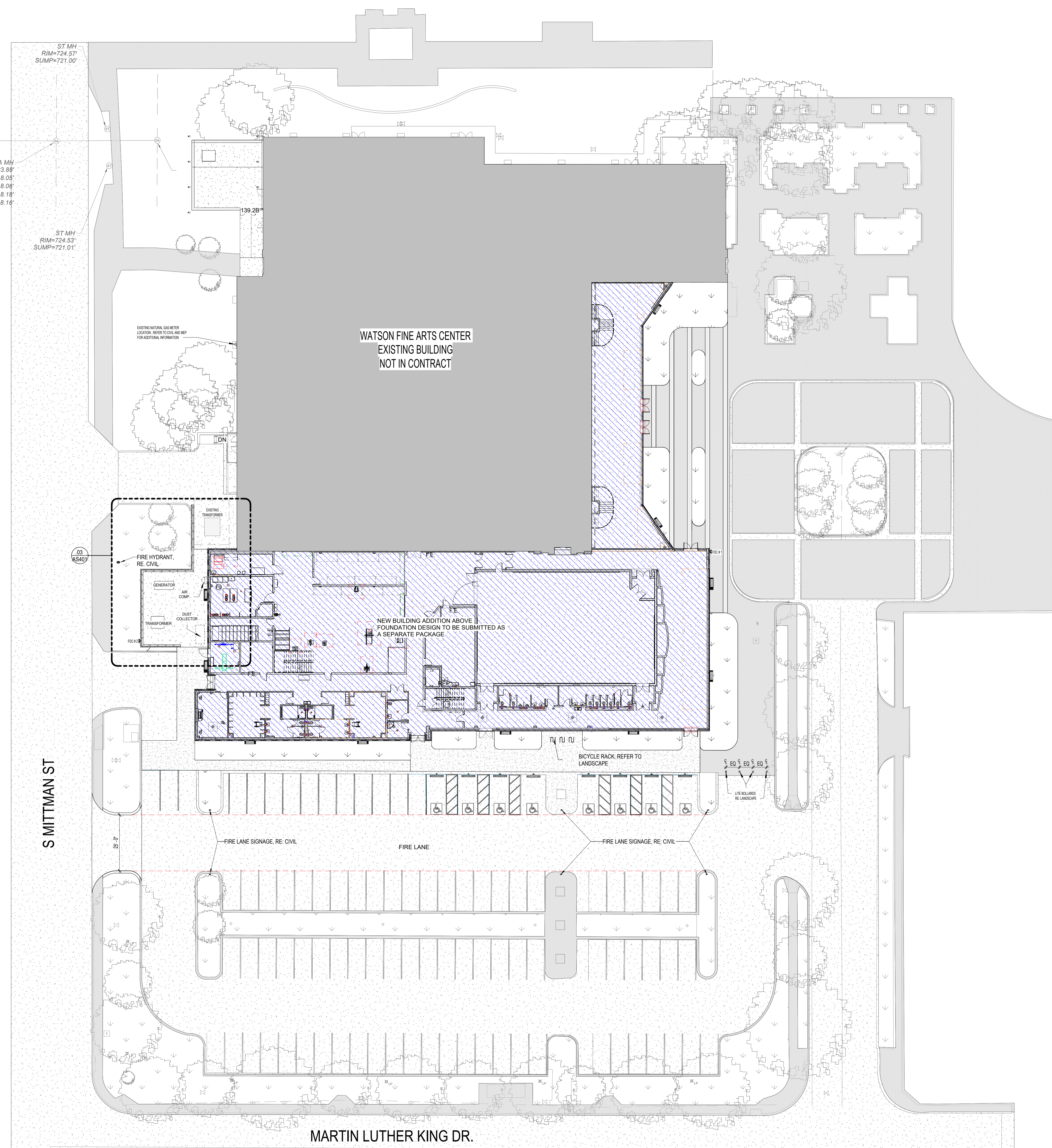
ASD101

SITE DEMOLITION PLAN LEGEND

- EXISTING BUILDING
- DEMO ENTIRE FACILITY (FOUNDATION, STRUCTURE, WALLS, ROOFS)
- DEMO CHAINLINK FENCE
- DEMO ORNAMENTAL FENCE

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

ARCHITECTURAL SITE PLAN
 AS100
 FOR BLUEBAM LABELING CO.
 ISSUE FOR PERMIT
 06 ARCHITECTURAL SITE PLAN
 1" = 20'-0"
 CHECKED BY: [Signature]
 DRAWN BY: [Signature]
 5/10/2024 7:35:43 AM



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.



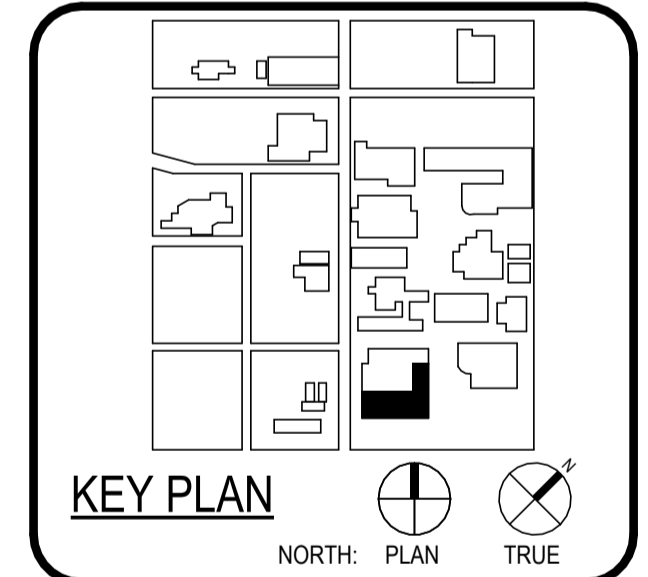
ARCHITECT	PBK Architects, Inc. SAN ANTONIO 601 N. Loop 410, Suite 400 San Antonio, TX 78216 210-829-0123 P 210-829-0578 F TX Firm BR 1608
ARCHITECT	BA & ARCHITECTS 1100 W. BRIDGES SAN ANTONIO, TX 78207 210-442-0000 LUNY & FRANKS ENGINEERING 1100 W. BRIDGES SAN ANTONIO, TX 78207 210-442-0000 MEAN PROFESSIONALS 1100 W. BRIDGES SAN ANTONIO, TX 78207 210-442-0000

WFAC Black Box Addition PKG 1
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BRICK QUANTITY TAKEOFF

LISTED AREAS ARE ACTUAL SQ. FT. TAKE-OFF 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 V.E OPTION IS SELECTED
 ADDED BRICK COUNT
 ORANGE BRICK - 490 SF
 WHITE BRICK - 155 SF



ARCH SITE PLAN LEGEND

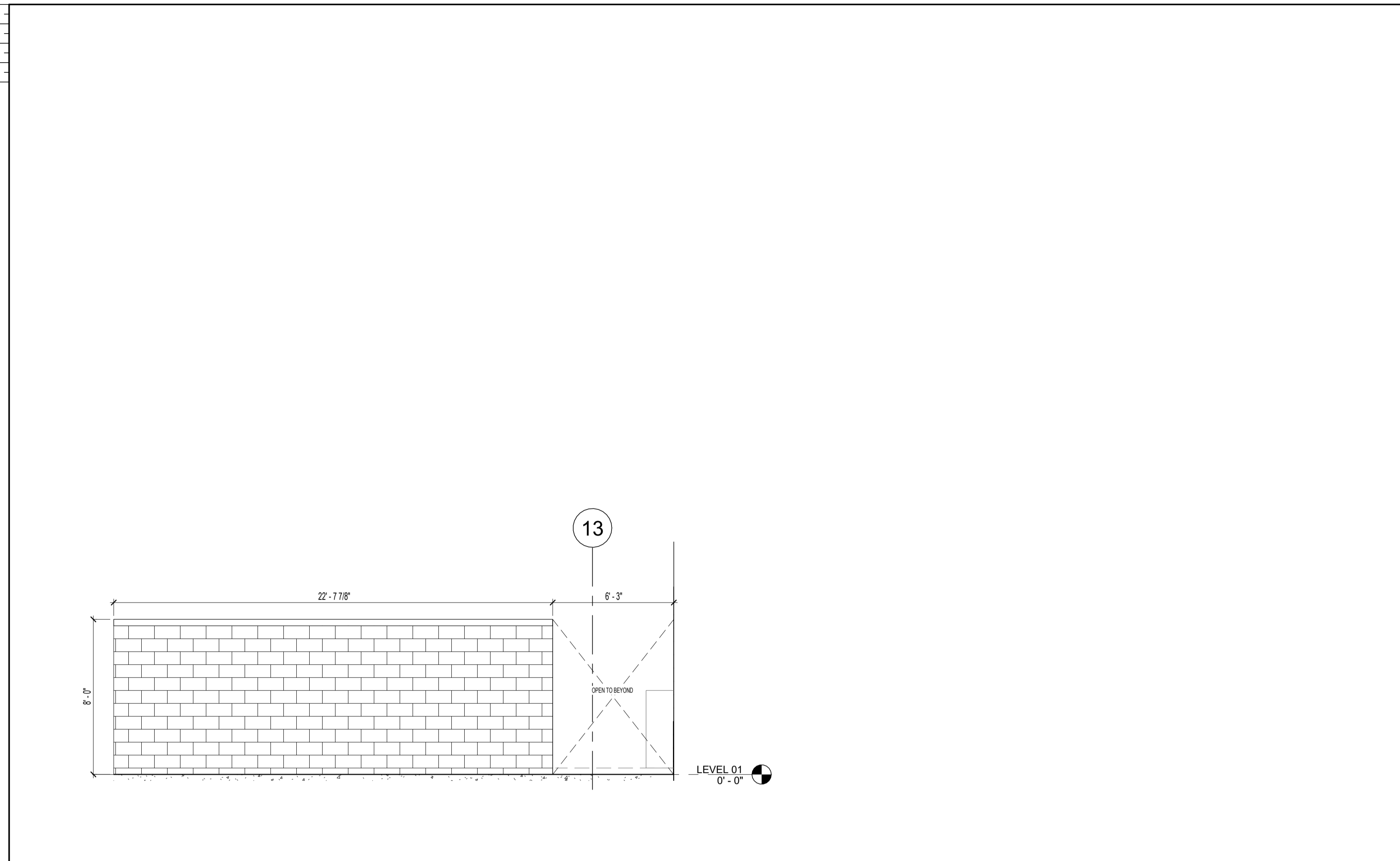
- EXISTING BUILDING
- NOT IN SCOPE
- NEW BUILDING / ADDITION
- GRASS
- PAVER 1
- PAVER 2
- SIDEWALK



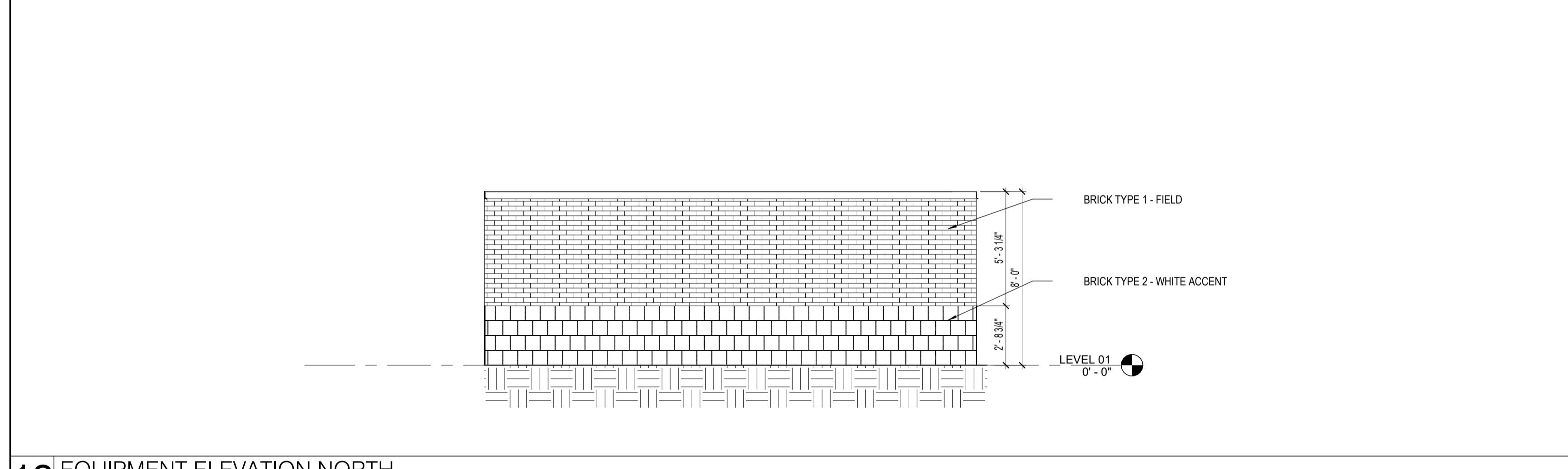
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Alamo Colleges	PROJECT NUMBER	
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ISSUE FOR PERMIT
 BUILDING NUMBER
ARCHITECTURAL SITE PLAN

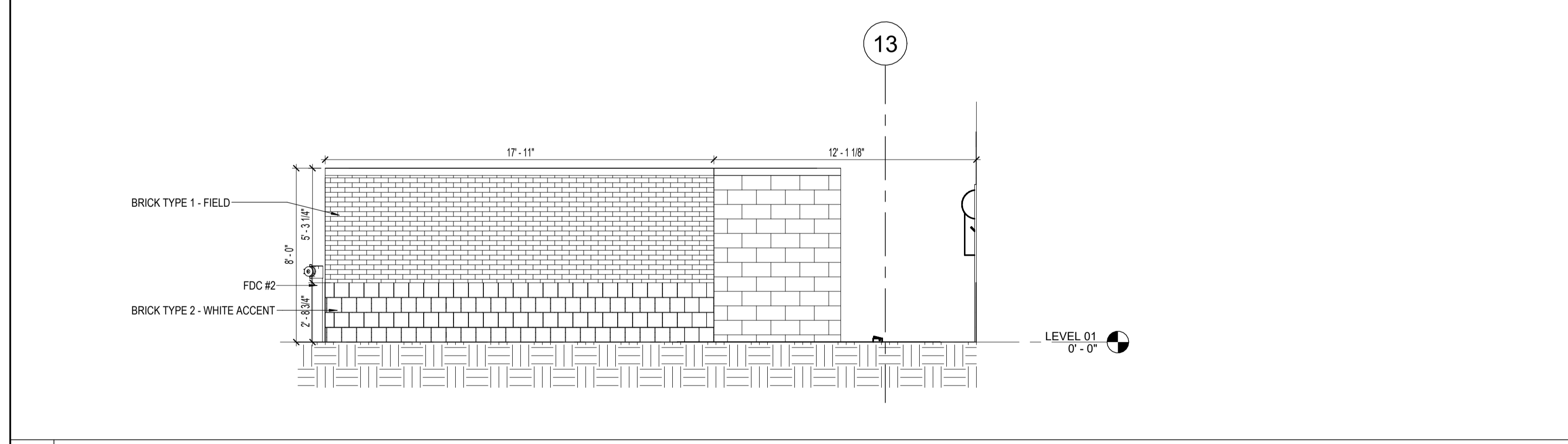
AS100



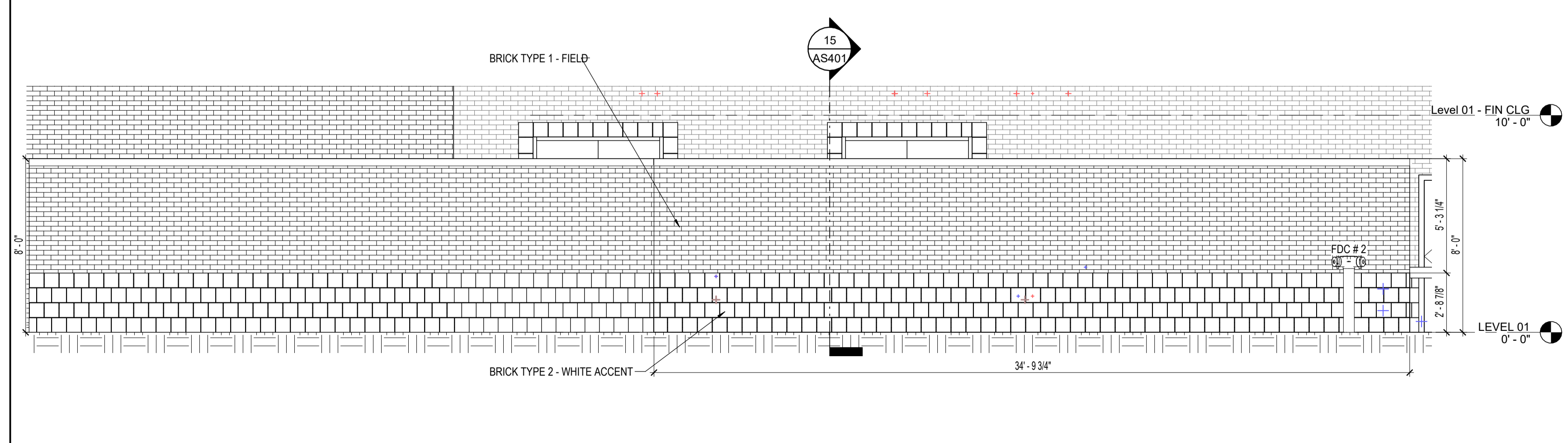
24 NORTH EQUIPMENT ELEVATION
1/4" = 1'-0"



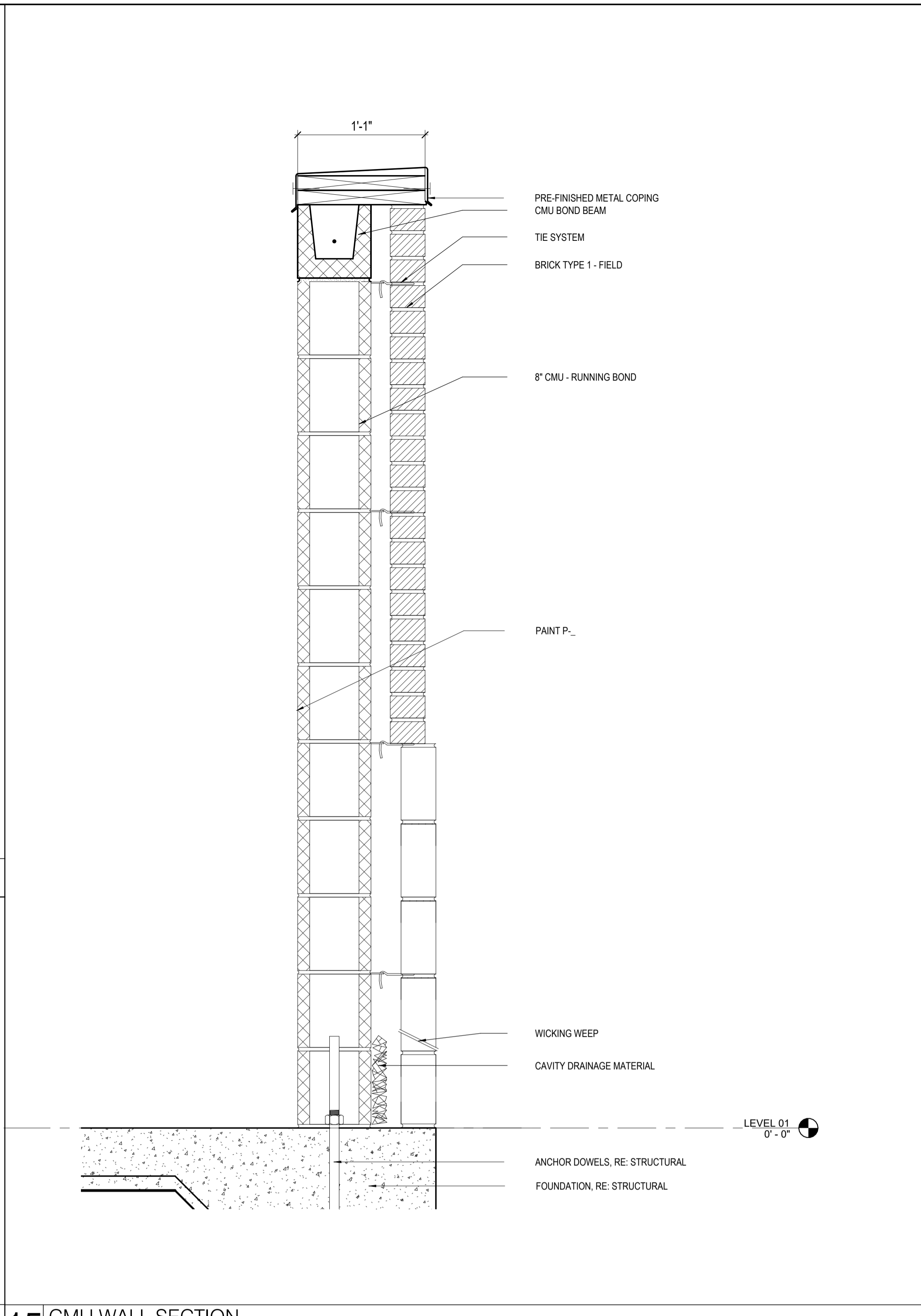
18 EQUIPMENT ELEVATION NORTH
1/4" = 1'-0"



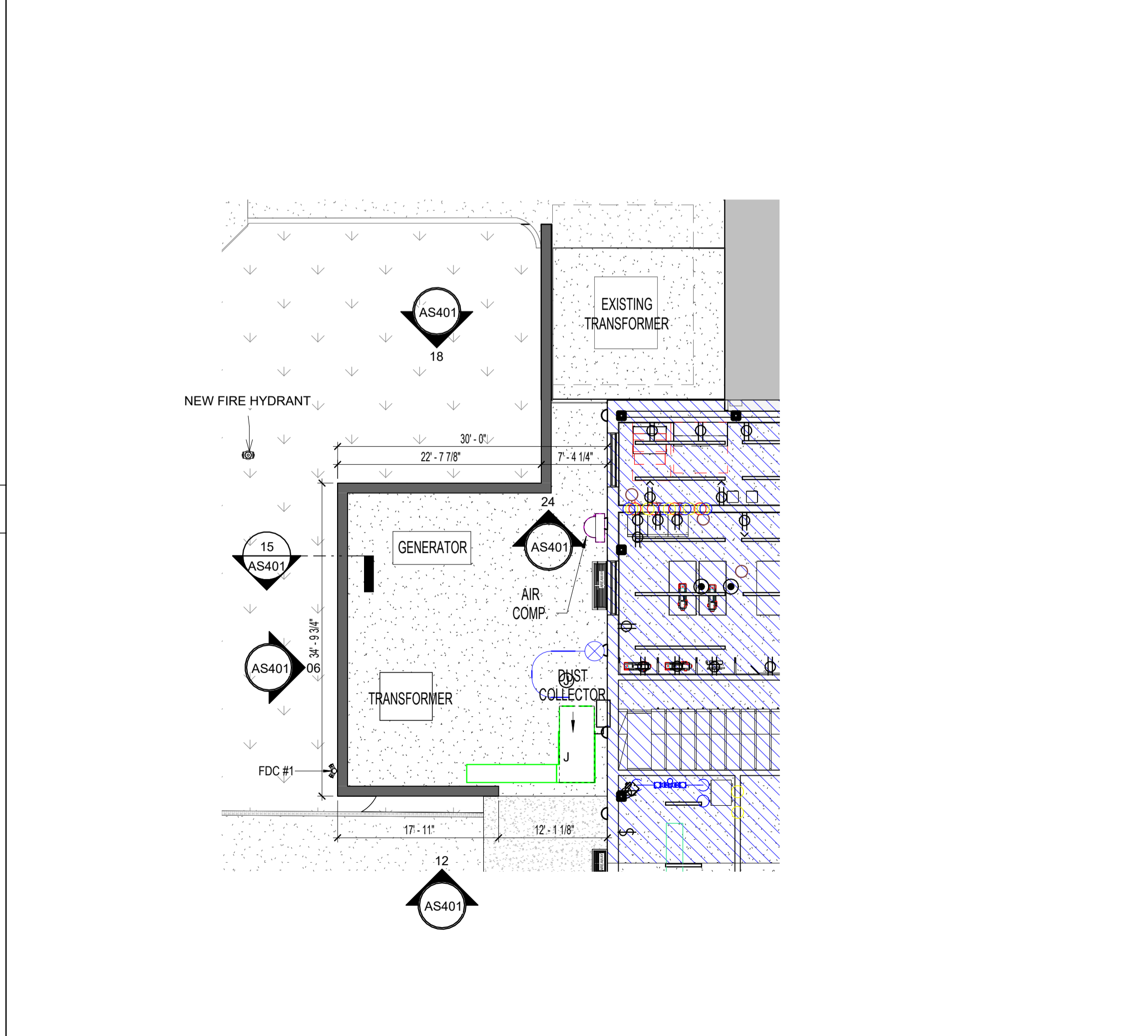
12 EQUIPMENT ELEVATION SOUTH
1/4" = 1'-0"



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



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



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

GENERAL ARCH SITE PLAN NOTES

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

KEYNOTE LEGEND

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

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ARCHITECTURE
BA ARCHITECTS
1200 W. BRUNNEN
SAN ANTONIO, TX 78207
210-492-1100
LANDSCAPE
ROSE AND GROUP
1111 W. BRUNNEN
SAN ANTONIO, TX 78207
210-492-1100
LUNBY & FRANK ENGINEERING
1111 W. BRUNNEN
SAN ANTONIO, TX 78207
210-492-1100
MECHANICAL
MEYER PROFESSIONALS
1111 W. BRUNNEN
SAN ANTONIO, TX 78207
210-492-1100

ARCH SITE PLAN LEGEND

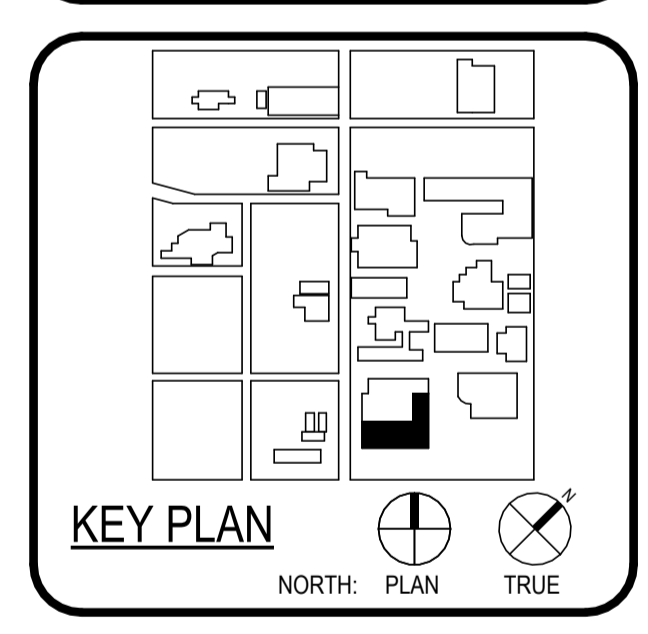
[Pattern]	EXISTING BUILDING
[Pattern]	NOT IN SCOPE
[Pattern]	NEW BUILDING / ADDITION
[Pattern]	GRASS
[Pattern]	PAVER 1
[Pattern]	PAVER 2
[Pattern]	SIDEWALK



WFAC Black Box Addition PKG 1

1801 Marlin Luther King Dr.,
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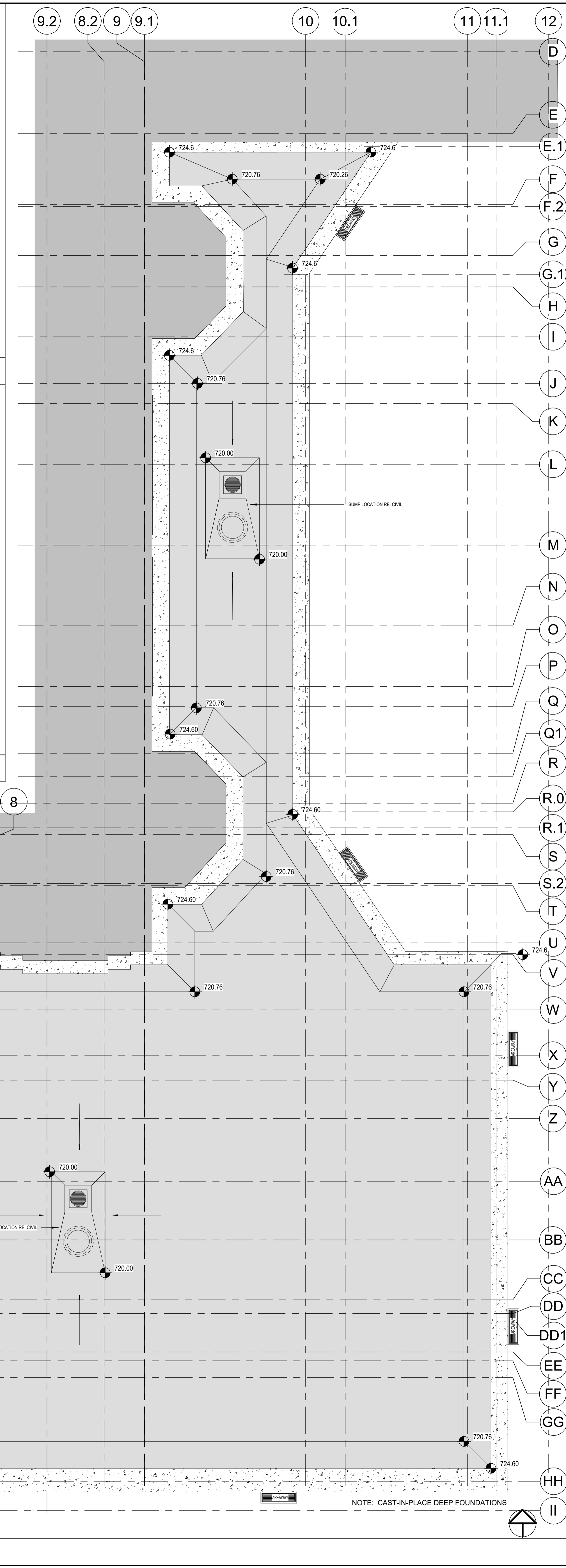
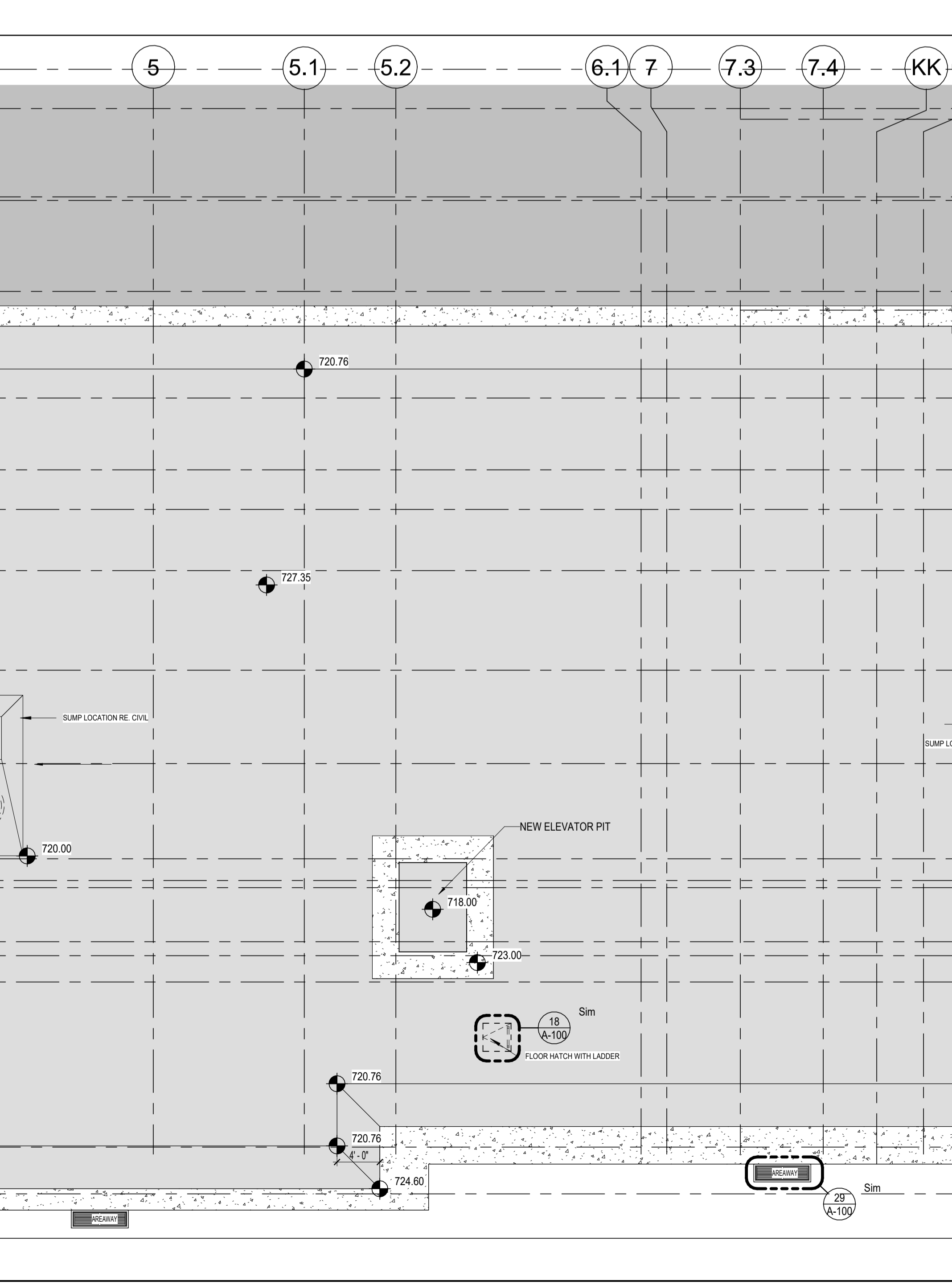
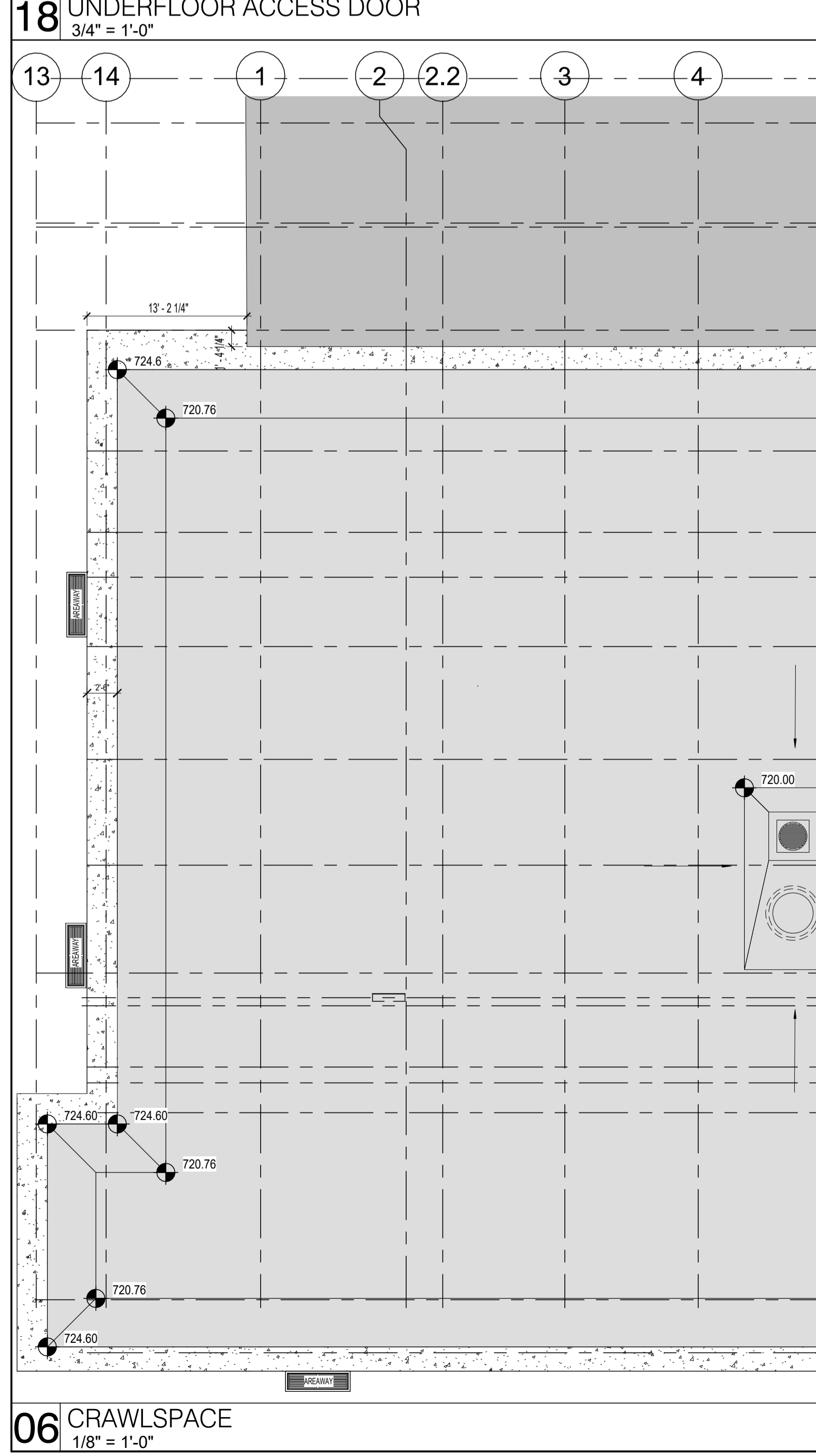
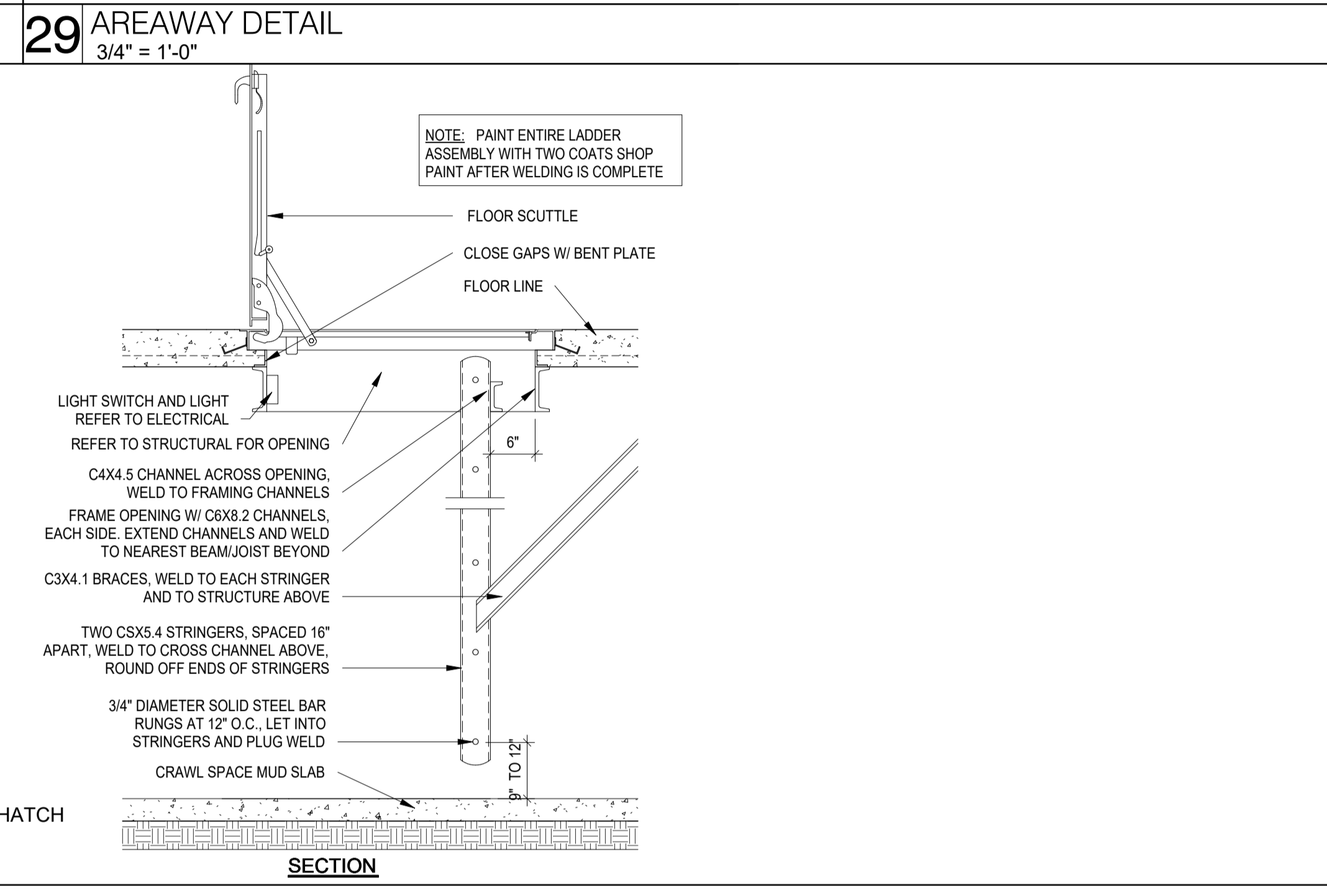
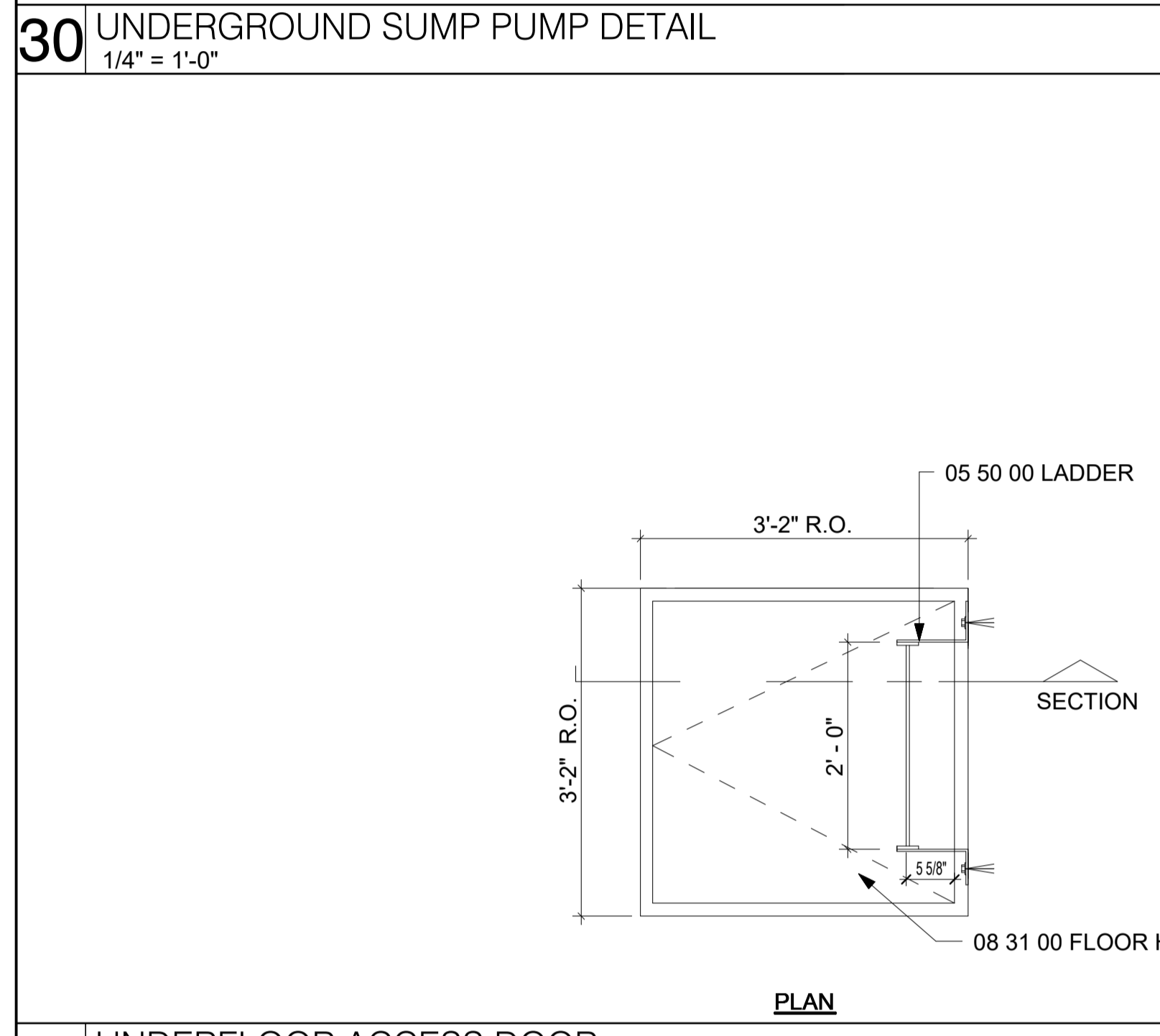
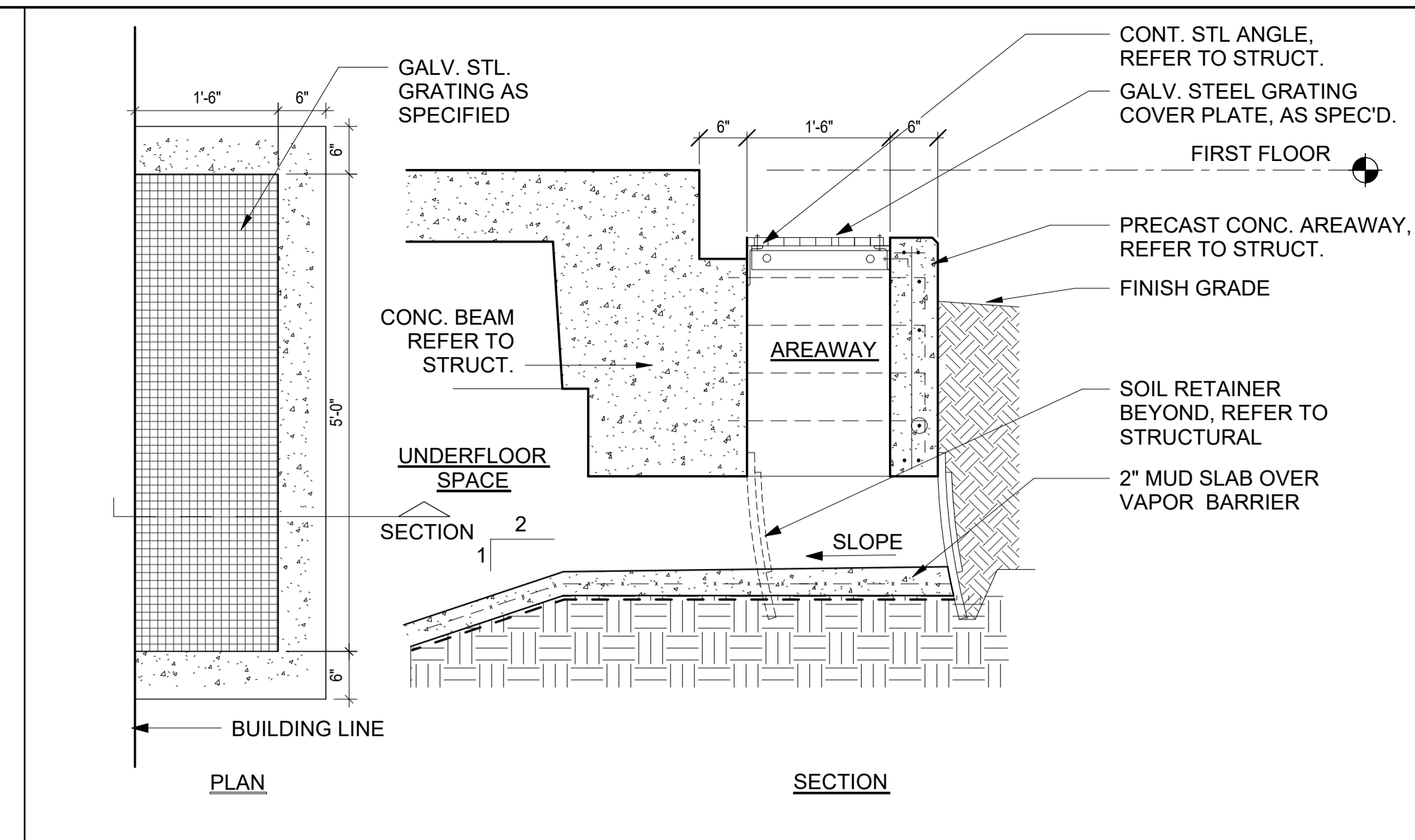
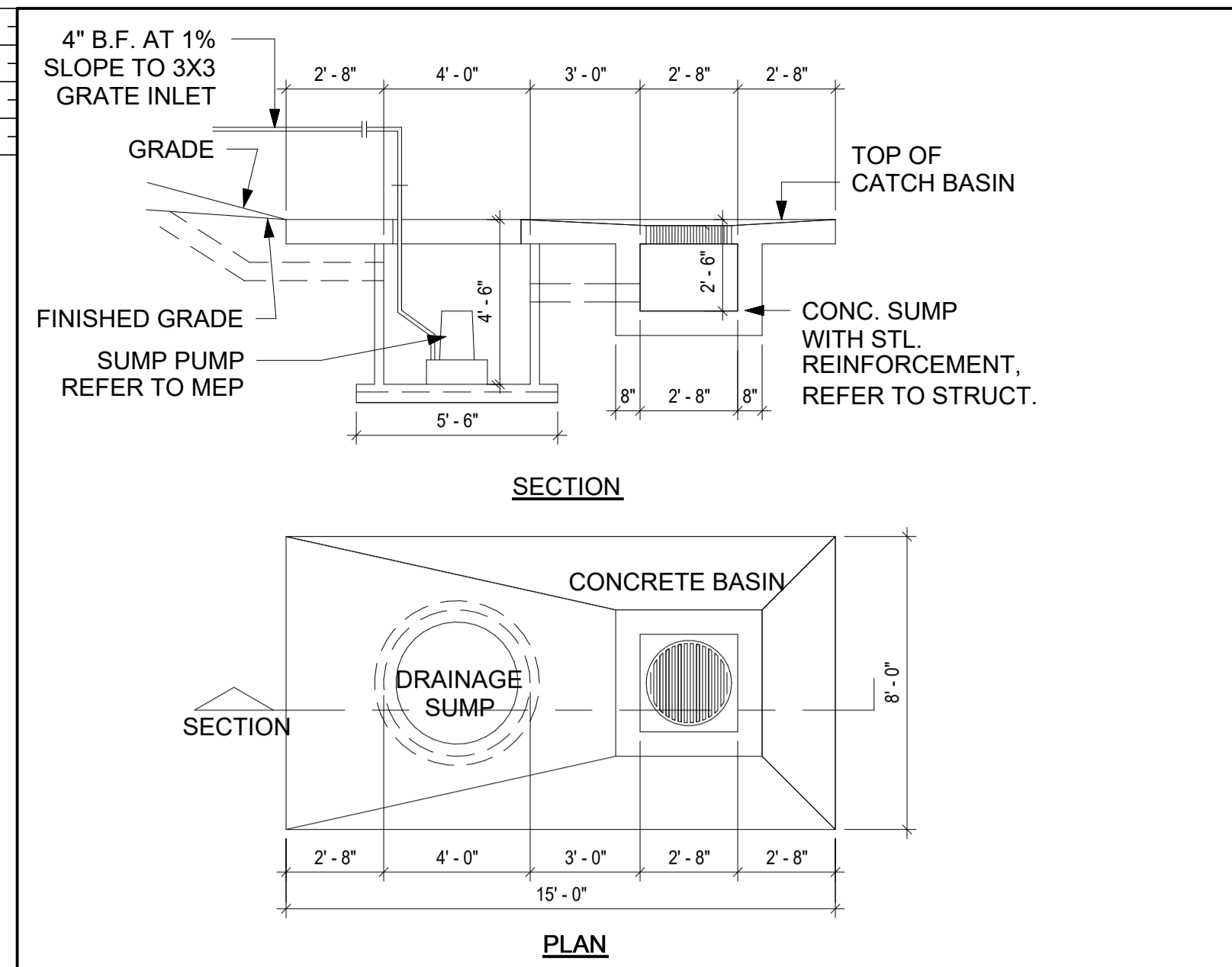
DATE: 2024/05/10 PROJECT NUMBER: 230462

No.	Description	Date

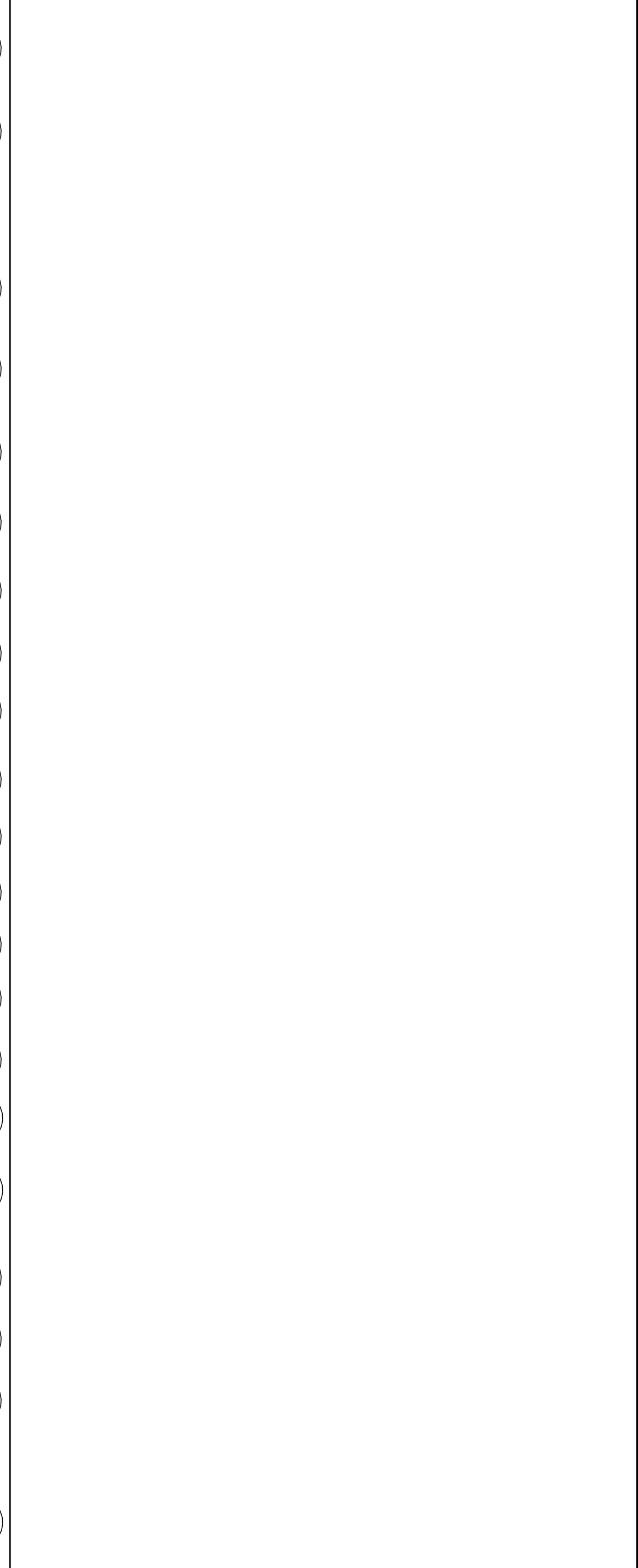
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ARCHITECTURAL ENLARGED SITE PLANS

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 "N.T.S." 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.
 - ADJOINING 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 UNCEALED STRUCTURAL STEEL MEMBERS AT ALL EXTERIOR CANOPY LOCATIONS.
 - REFER TO OTHER DISCIPLINE DOCUMENTS FOR ADDITIONAL SCOPE OF WORK.



FLOOR FINISH LEGEND

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

KEY PLAN

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CRAWLSPACE FLOOR PLAN - COMPOSITE

PBK

BA & ARCHITECTS

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WFAC Black Box Addition PKG 1

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

ALAMO COLLEGES
 ST. PHILIP'S COLLEGE

REGISTERED ARCHITECT
 PHILIP COLLEGE

CLIENT: Alamo Colleges
 DATE: 2024/05/10 PROJECT NUMBER: 230462

No.	Description	Date

ISSUE FOR PERMIT

BUILDING NUMBER

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

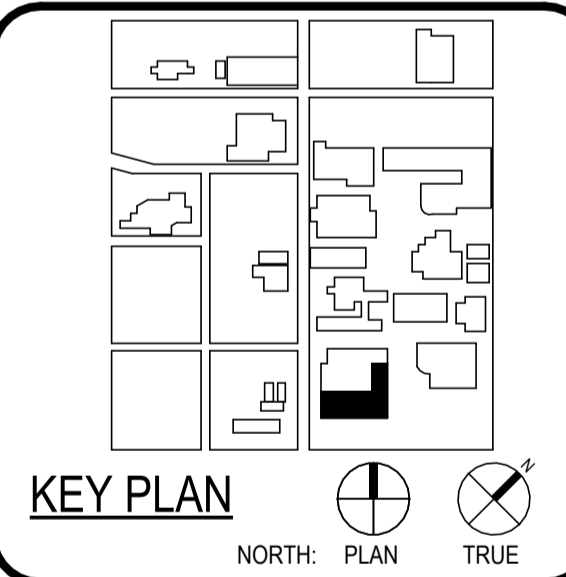
1. WITH EGRESS DEVICE
2. MAGNETIC DOOR HOLDER
3. FIRE DOOR
4. ELEVATOR MACHINE ROOM DOORS
5. ELECTRICAL ROOM DOORS
6. KICK PLATE ON BOTH SIDES
7. ACCESS PANEL DOOR
8. WITH CLOSER



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ASSOCIATE ARCHITECT	BAA ARCHITECTS
CONSULTANT	CON
ENGINEER	DESIGNER
LANDSCAPE	LANDSCAPE
ROOF AND GROUND	ROOF AND GROUND
STRUCTURAL	STRUCTURAL
LINDBY & FRANKS ENGINEERING	LINDBY & FRANKS ENGINEERING
MEP	MEP
ENVIRONMENTAL	ENVIRONMENTAL
MECHANICAL	MECHANICAL
PLUMBING	PLUMBING
ELECTRICAL	ELECTRICAL
TELEPHONE	TELEPHONE
TELEVISION	TELEVISION
TELECOM	TELECOM
TELEVISION	TELEVISION
TELECOM	TELECOM

WFAC Black Box Addition PKG 1

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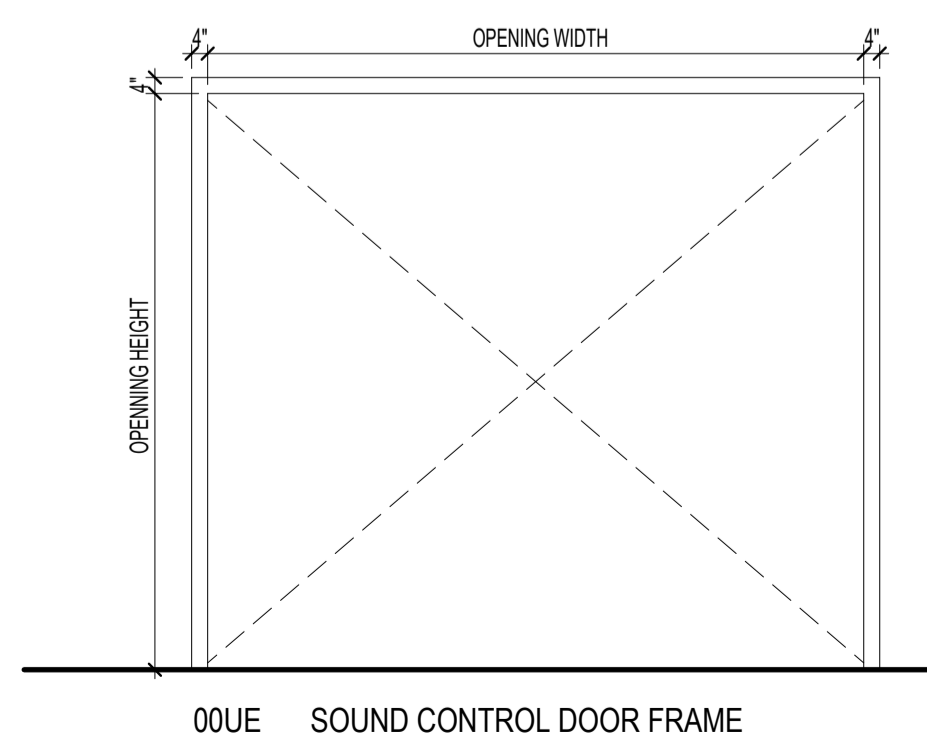
CLIENT		
Alamo Colleges		
DATE	PROJECT NUMBER	
2024/05/10	230462	
DRAWING HISTORY		
No.	Description	Date

ISSUE FOR PERMIT

BUILDING NUMBER

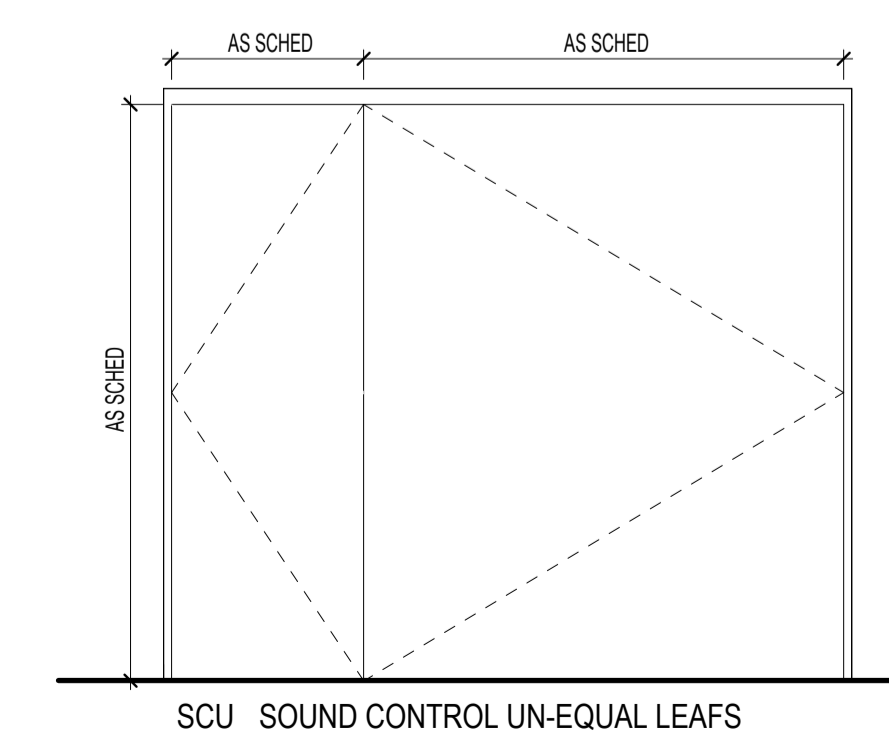
**DOOR SCHEDULE
PANEL AND FRAME
TYPES**

A-811



00UE SOUND CONTROL DOOR FRAME

FINISH FLOOR

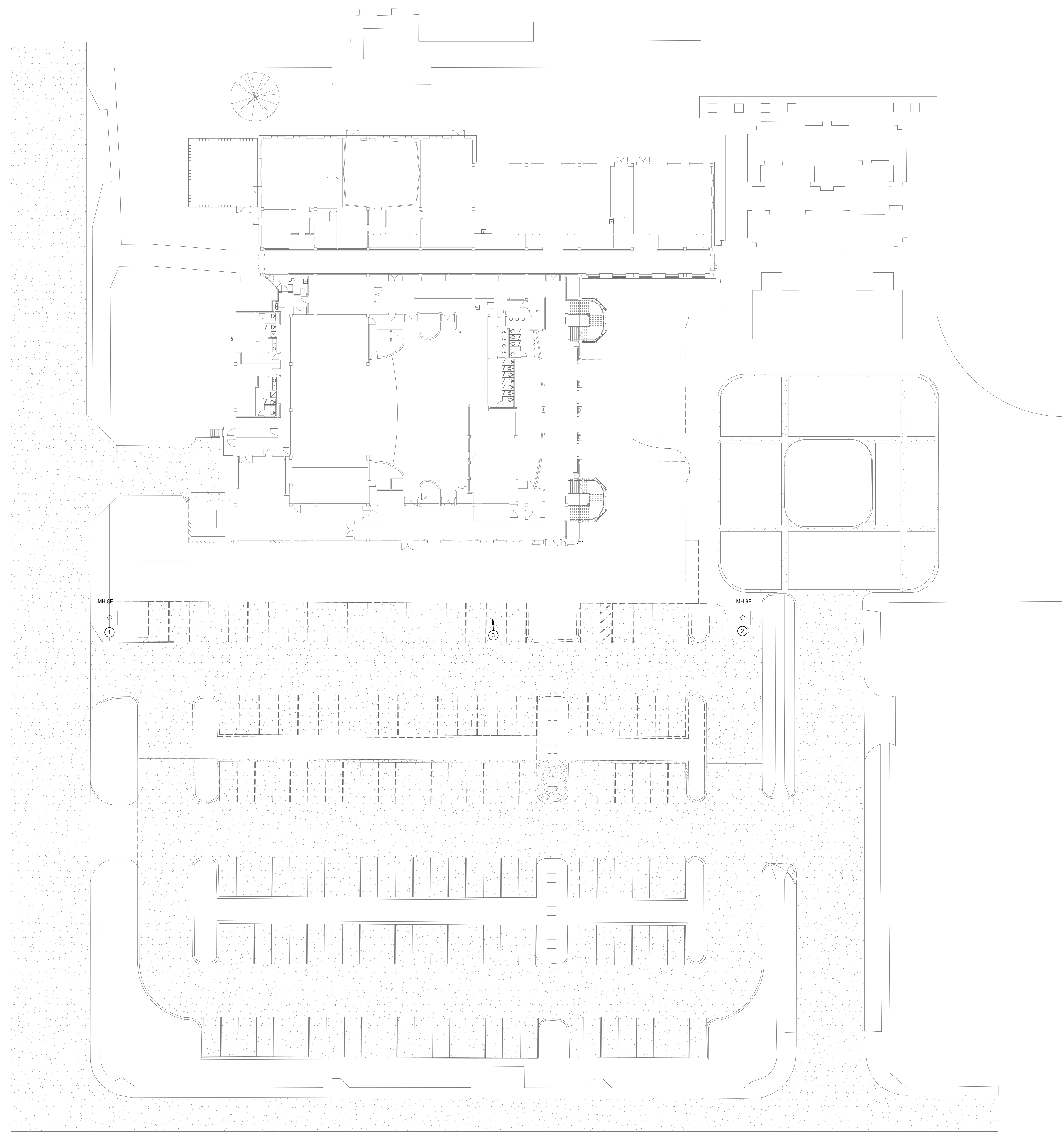


SCU SOUND CONTROL UN-EQUAL LEAFS

FINISH FLOOR

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

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



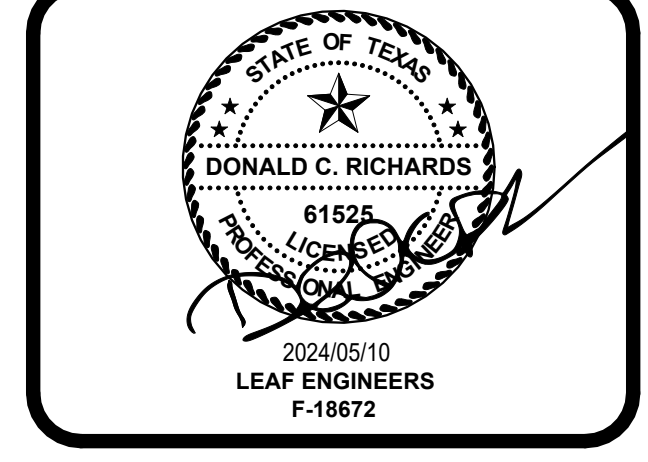
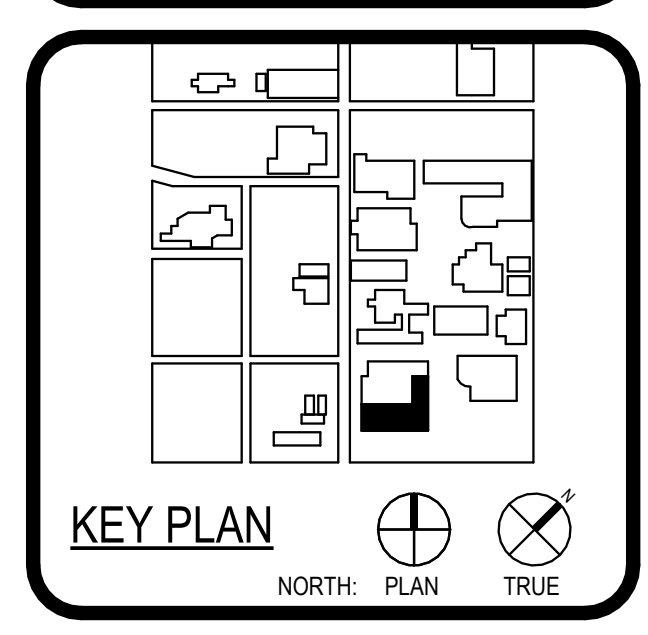
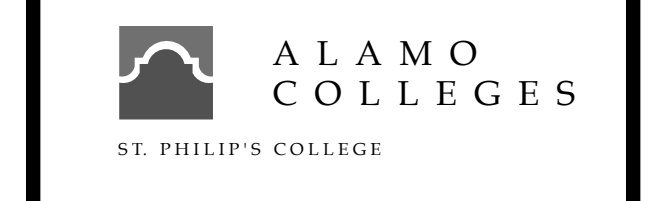
- DEMO SITE PLAN GENERAL NOTES:**
- COORDINATE ROUTING FOR ALL UNDERGROUND ELECTRICAL BRANCH CIRCUITS AND FEEDERS WITH OTHER DISCIPLINES PRIOR TO TRENCHING.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES CAUSED BY INSTALLATION OF NEW WORK.
- SITE PLAN KEYED NOTES:**
- EXISTING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



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11225 W. Loop West	
Dallas, TX 75241	
DESIGNER	LEAF ENGINEERS
11111 W. Loop West	
Dallas, TX 75241	
PROJECT ENGINEER	LUNY & THORNTON ENGINEERING
11111 W. Loop West	
Dallas, TX 75241	
PROJECT MANAGER	LEAF ENGINEERS
11111 W. Loop West	
Dallas, TX 75241	
MECHANICAL ENGINEER	LEAF ENGINEERS
11111 W. Loop West	
Dallas, TX 75241	
ELECTRICAL ENGINEER	LEAF ENGINEERS
11111 W. Loop West	
Dallas, TX 75241	



WFAC Black Box Addition PKG 1

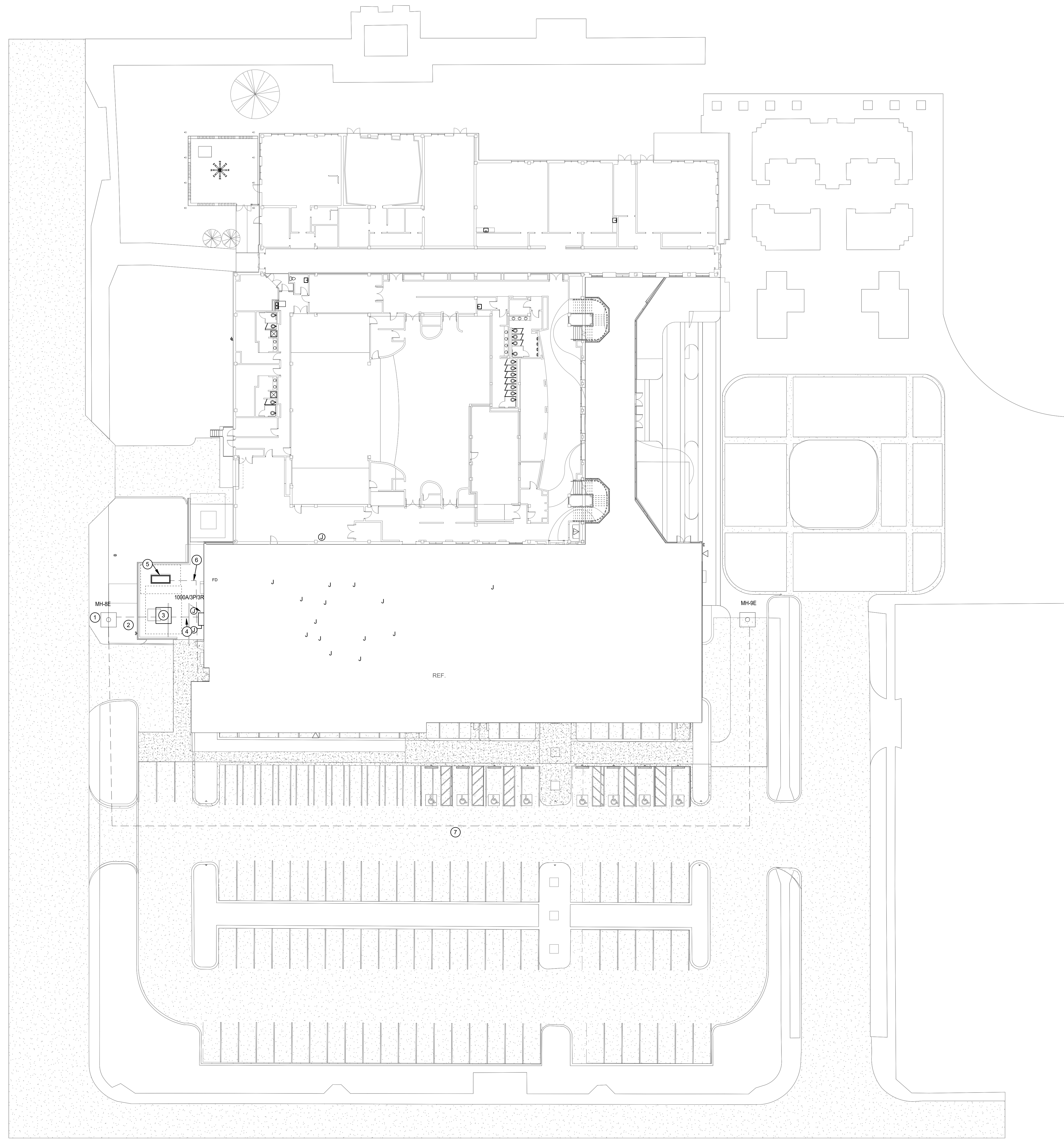


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DEMO SITE POWER PLAN

EDS-101



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

- SITE PLAN KEYED NOTES:**
- EXISTING ELECTRICAL MANHOLE
 - NEW UNDERGROUND EASEMENT FOR NEW PRIMARY POWER FOR UTILITY TRANSFORMER. FIELD VERIFY THAT SPARE CAPACITY IS AVAILABLE.
 - NEW 480/277V 750KVA TRANSFORMER SHALL BE PROVIDED FROM ALAMO COLLEGES. CONTRACTOR SHALL COORDINATE EXACT LOCATION WITH ARCHITECTURAL PLANS. PROVIDE (1) 1 1/2" CONDUIT FOR POWER.
 - NEW UNDERGROUND ROUTE FOR SECONDARY TO MAIN SERVICE DISCONNECT. PROVIDE (2) 3" CONDUITS FOR POWER.
 - NEW 480/277V, 40 KW CUMMINS MODEL NUMBER: C40 N6 FOR FIRE PUMP.
 - NEW UNDERGROUND PATHWAY FROM GENERATOR TO 2ND FLOOR AT IN MEZZAINE.
 - REROUTED PATHWAY FOR EXISTING UNDERGROUND DUCKBANK WITH 4 EXISTING CONDUITS. CONTRACTOR SHALL VERIFY EXACT PATHWAY OF EXISTING CONDUITS AND FEEDERS SIZES WITHIN EXISTING MANHOLES. CONTRACTOR SHALL COORDINATE NEW PATHWAY WITH ST. PHILLIPS UTILITY FACILITIES TO ENSURE PATHWAY CAN BE ROUTED.

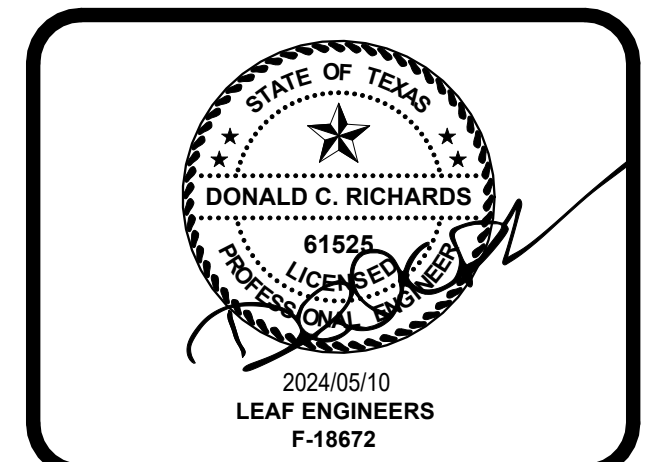
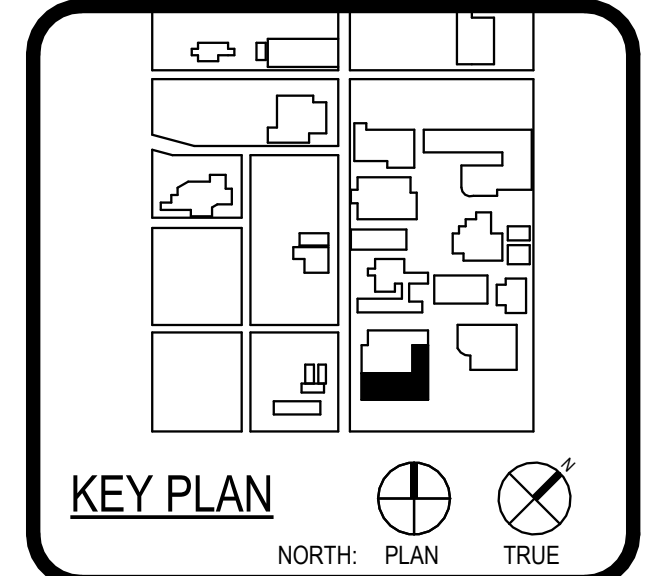
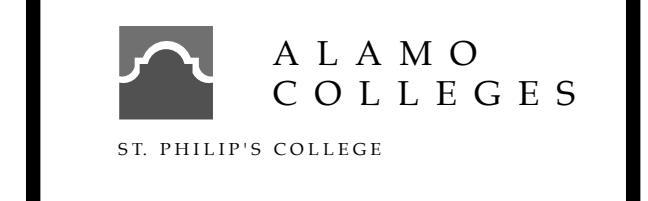
1 SITE POWER PLAN
 SCALE: 1" = 20'-0"



ARCHITECT	SAN ANTONIO 601 N. W. Loop 410, Suite 400 San Antonio, TX 78216 210-829-0123 P 210-829-0578 F TX Firm BR 1698
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ENGINEER	LEAF ENGINEERS 1111 W. Loop West San Antonio, TX 78204
MECHANICAL ENGINEER	LUNY & THOMAS ENGINEERING 1111 W. Loop West San Antonio, TX 78204
ELECTRICAL ENGINEER	LEAF ENGINEERS 1111 W. Loop West San Antonio, TX 78204
PLUMBING ENGINEER	LEAF ENGINEERS 1111 W. Loop West San Antonio, TX 78204
MECHANICAL CONTRACTOR	MECHANICAL CONTRACTORS 1111 W. Loop West San Antonio, TX 78204
ELECTRICAL CONTRACTOR	ELECTRICAL CONTRACTORS 1111 W. Loop West San Antonio, TX 78204



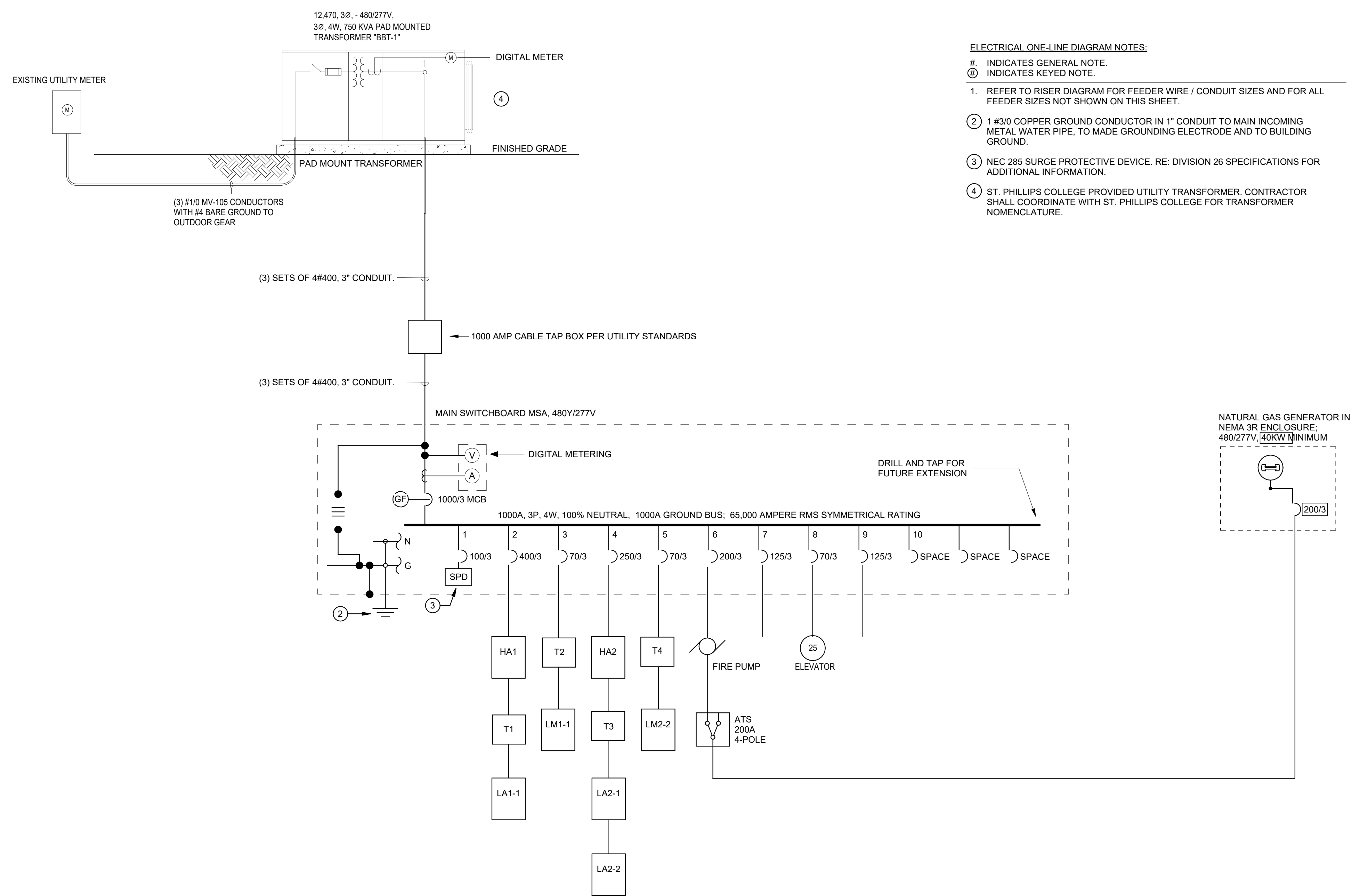
WFAC Black Box Addition PKG 1



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SITE POWER PLAN



- ELECTRICAL ONE-LINE DIAGRAM NOTES:**
- # INDICATES GENERAL NOTE.
 - ① 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.

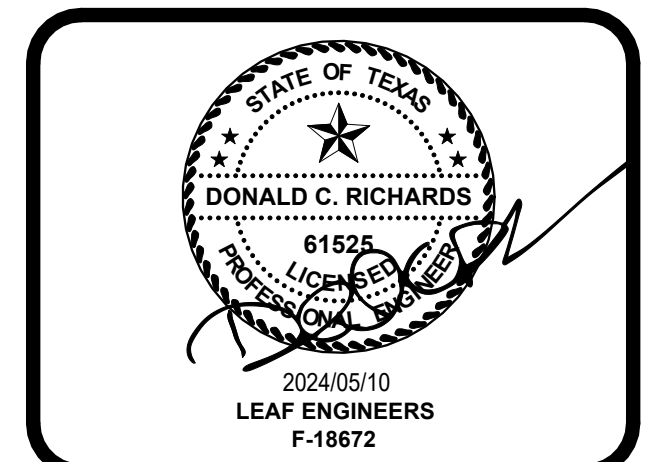
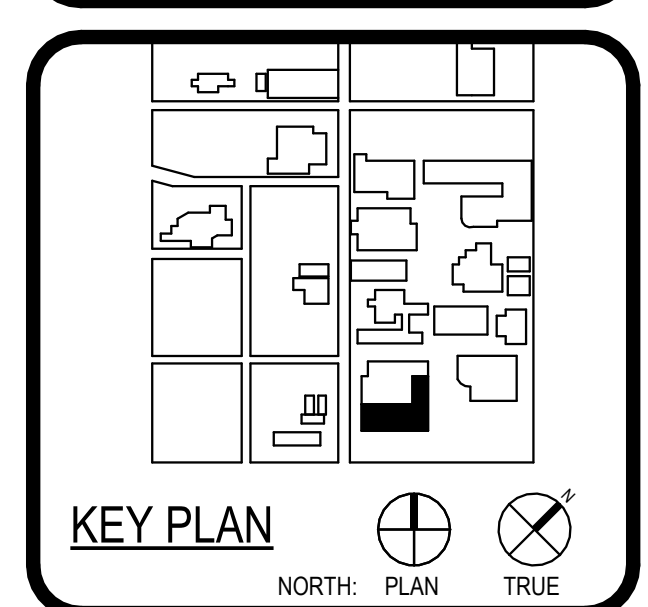


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WFAC Black Box Addition PKG 1

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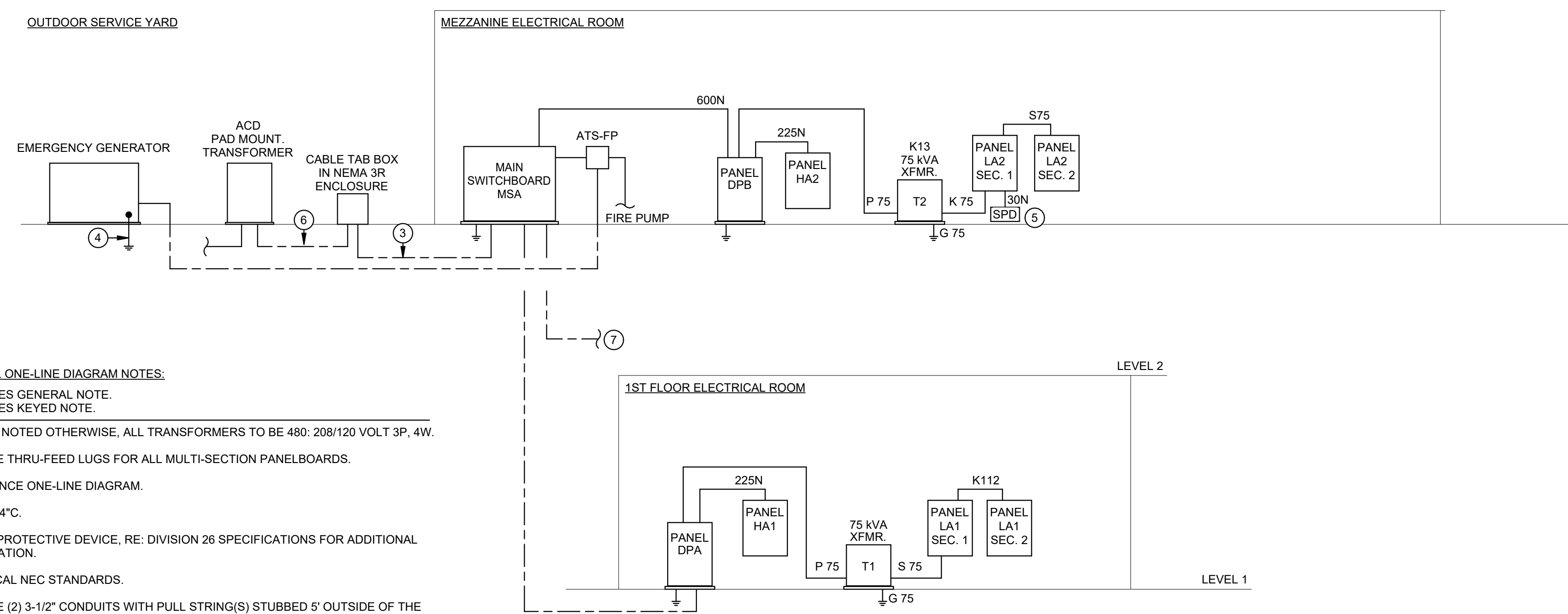


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Alamo Colleges	PROJECT NUMBER	
DATE	230462	
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ELECTRICAL ONE-LINE DIAGRAM

0
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#2/0G	3"	2	
600N	4#500, 1#2/0G	3 1/2"	2	
800	3#400, 1#3/0G	3"	3	
800N	4#400, 1#3/0G	3"	3	
1200	3#500, 1#3/0G	3"	4	
1200N	4#500, 1#3/0G	3 1/2"	4	

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#1/0G	3"	2	
800N	4#500, 1#1/0G	3 1/2"	2	
800S	4#500	3 1/2"	2	
1000	3#400, 1#2/0G	3"	3	
1000N	4#400, 1#2/0G	3"	3	
1000S	4#400	3"	3	
1200	3#250, 1#3/0G	3"	4	
1200N	4#250, 1#3/0G	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	
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#2/0G	1/2"	1	FOR 480 3Ø: 120/240 3Ø TRANSFORMERS
P112	3#2/0, 1#6G	2"	1	
S112	4#3/0, 1#1/0G	2"	2	
K112	3#4/0, 1#350N, 1#1/0G	2 1/2"	2	
G112	1#1/0G	3/4"	1	
P150	3#250, 1#4G	2 1/2"	1	
S150	4#350, 1#2/0G	3"	2	
K150	3#350, 2#3/0N, 1#2/0G	3"	2	
G150	1#2/0G	3/4"	1	
P167	2#4/0, 1#2/0G	2"	2	FOR 480 1Ø: 120/240 1Ø TRANSFORMERS
S167	3#350, 1#3/0G	3"	3	FOR 480 1Ø: 120/240 1Ø TRANSFORMERS
G167	1#3/0G	3/4"	1	FOR 480 1Ø: 120/240 1Ø TRANSFORMERS
P225	3#500, 3#3/0	3"	1	
S225	4#350, 1#2/0G	3"	1	
K225	3#350, 2#3/0, 1#1G	3 1/2"	3	
G225	1#2/0G	3/4"	1	

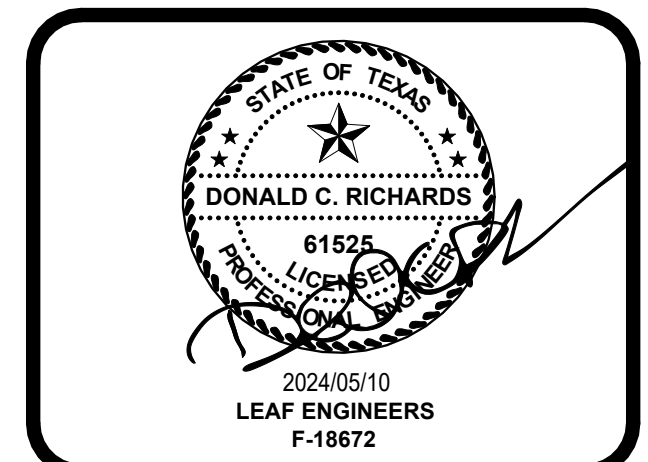
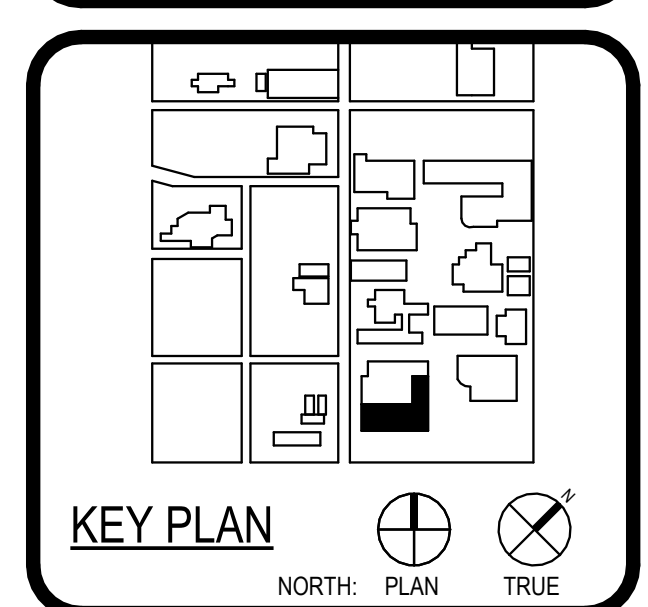


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WFAC Black Box Addition PKG 1

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



CLIENT Alamo Colleges
DATE 2024/05/10 PROJECT NUMBER 230462

No.	Description	Date

ISSUE FOR PERMIT
BUILDING NUMBER

ELECTRICAL RISER DIAGRAM

GENERAL ELECTRICAL NOTES

- UNLESS SPECIFICALLY INDICATED ON THE DRAWINGS OR OTHERWISE INSTRUCTED BY THE ARCHITECT, ELECTRICAL OUTLETS SHALL HAVE THE FOLLOWING MOUNTING HEIGHTS. DIMENSIONS ARE TO CENTER OF BOX UNLESS OTHERWISE NOTED.
 - WALL SWITCHES
 - 15" AFF TO BOTTOM OF BOX
 - 15" AFF TO BOTTOM OF BOX
 - WALL CONVENIENCE RECEPTACLES
 - 7'-0" AFF (OR ABOVE CHALKBOARDS WHERE REQUIRED)*
 - WALL DATA/VOICE OUTLETS
 - 7'-0" AFF (OR ABOVE CHALKBOARDS WHERE REQUIRED)*
 - WALL OUTLETS FOR WALL MTD. TELEPHONE
 - 7'-0" AFF (OR ABOVE CHALKBOARDS WHERE REQUIRED)*
 - WALL CLOCK OUTLETS
 - 7'-0" AFF (OR ABOVE CHALKBOARDS WHERE REQUIRED)*
 - MANUAL FIRE ALARM PULL STATIONS
 - 1'-0" BELOW CEILING, OR IN CEILING, AS REQUIRED*
 - FIRE ALARM SPEAKER/HORN
 - 1'-0" BELOW CEILING, OR IN CEILING, AS REQUIRED*
 - INTERIOR BELLS, BUZZERS, HORNS
 - 15" AFF TO BOTTOM OF BOX (OR HIGHER AS REQUIRED TO SERVE EQUIPMENT)
 - SPECIAL PURPOSE WALL OUTLETS
 - 15" AFF TO BOTTOM OF BOX (OR HIGHER AS REQUIRED TO SERVE EQUIPMENT)
 - PUSH BUTTONS
 - 80" AFF TO BOTTOM OF LENS OR 6" BELOW CEILING, WHICHEVER IS LOWER. ENTIRE LENS TO BE WITHIN 80" TO 96" AFF*
 - ADA VISUAL ALARM
 - 80" AFF TO BOTTOM OF LENS OR 6" BELOW CEILING, WHICHEVER IS LOWER. ENTIRE LENS TO BE WITHIN 80" TO 96" AFF*

AFF = ABOVE FINISHED FLOOR
AFG = ABOVE FINISHED GRADE

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

GENERAL ELECTRICAL REMODEL NOTES

- UNLESS SPECIFICALLY INDICATED ON THE DRAWINGS OR OTHERWISE INSTRUCTED BY THE ARCHITECT, ELECTRICAL OUTLETS SHALL HAVE THE FOLLOWING MOUNTING HEIGHTS. DIMENSIONS ARE TO CENTER OF BOX UNLESS OTHERWISE NOTED.
 - WALL SWITCHES
 - 15" AFF TO BOTTOM OF BOX
 - 15" AFF TO BOTTOM OF BOX
 - WALL CONVENIENCE RECEPTACLES
 - 7'-0" AFF (OR ABOVE CHALKBOARDS WHERE REQUIRED)*
 - WALL DATA/VOICE OUTLETS
 - 7'-0" AFF (OR ABOVE CHALKBOARDS WHERE REQUIRED)*
 - WALL OUTLETS FOR WALL MTD. TELEPHONE
 - 7'-0" AFF (OR ABOVE CHALKBOARDS WHERE REQUIRED)*
 - WALL CLOCK OUTLETS
 - 7'-0" AFF (OR ABOVE CHALKBOARDS WHERE REQUIRED)*
 - MANUAL FIRE ALARM PULL STATIONS
 - 1'-0" BELOW CEILING, OR IN CEILING, AS REQUIRED*
 - FIRE ALARM SPEAKER/HORN
 - 1'-0" BELOW CEILING, OR IN CEILING, AS REQUIRED*
 - INTERIOR BELLS, BUZZERS, HORNS
 - 15" AFF TO BOTTOM OF BOX (OR HIGHER AS REQUIRED TO SERVE EQUIPMENT)
 - SPECIAL PURPOSE WALL OUTLETS
 - 15" AFF TO BOTTOM OF BOX (OR HIGHER AS REQUIRED TO SERVE EQUIPMENT)
 - PUSH BUTTONS
 - 80" AFF TO BOTTOM OF LENS OR 6" BELOW CEILING, WHICHEVER IS LOWER. ENTIRE LENS TO BE WITHIN 80" TO 96" AFF*
 - ADA VISUAL ALARM
 - 80" AFF TO BOTTOM OF LENS OR 6" BELOW CEILING, WHICHEVER IS LOWER. ENTIRE LENS TO BE WITHIN 80" TO 96" AFF*

AFF = ABOVE FINISHED FLOOR
AFG = ABOVE FINISHED GRADE

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

ELECTRICAL SYMBOL LEGEND

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

CIRCUIT RELATED:

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

LIGHTING:

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

CONTROL:

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

POWER OUTLETS:

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

TELEPHONE/DATA:

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

EQUIPMENT:

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

LIGHTING FIXTURE NOTES

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

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

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

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



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WFAC Black Box Addition PKG 1
1801 Main Luther King Dr.,
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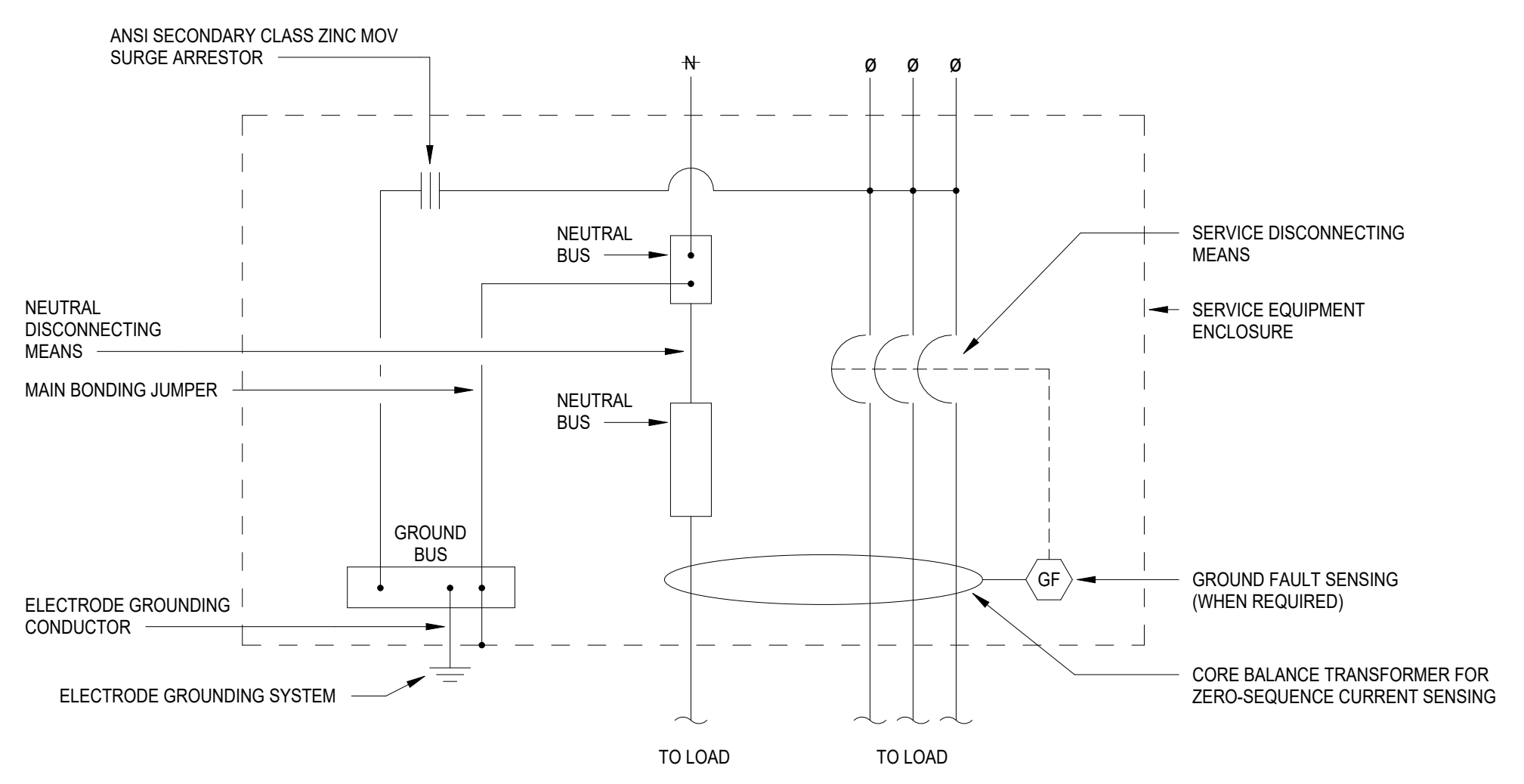
KEY PLAN
NORTH PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
6152
2024/05/10
LEAF ENGINEERS
F-16672

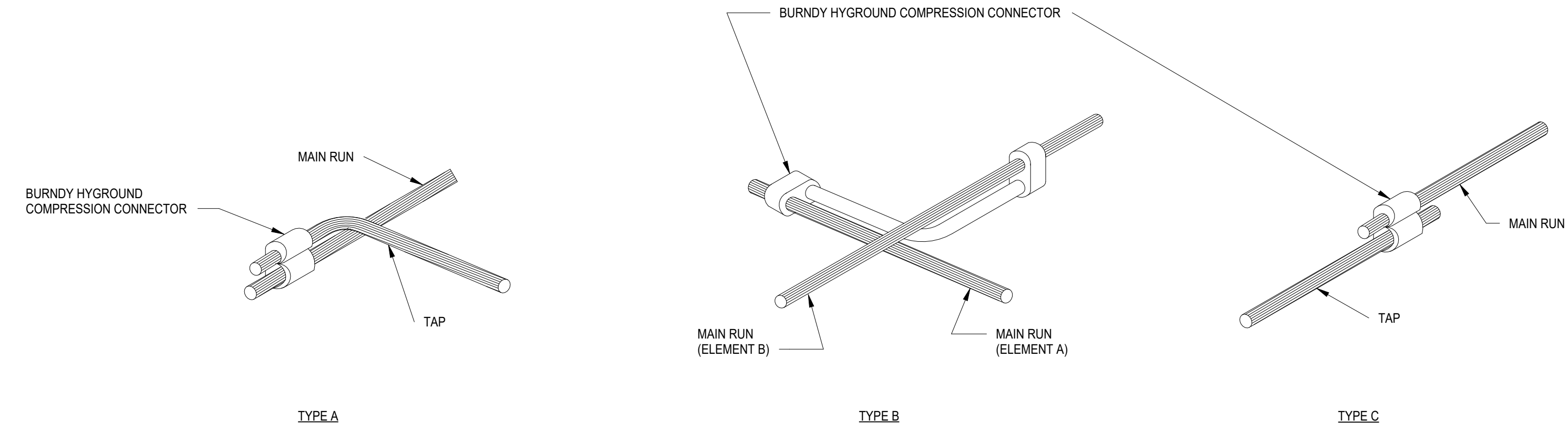
CLIENT
Alamo Colleges
DATE 2024/05/10 PROJECT NUMBER 230462
DRAWING HISTORY
No. Description Date
ISSUE FOR PERMIT
BUILDING NUMBER

ELECTRICAL SYMBOL LEGEND AND CONTACTOR SCHEDULE

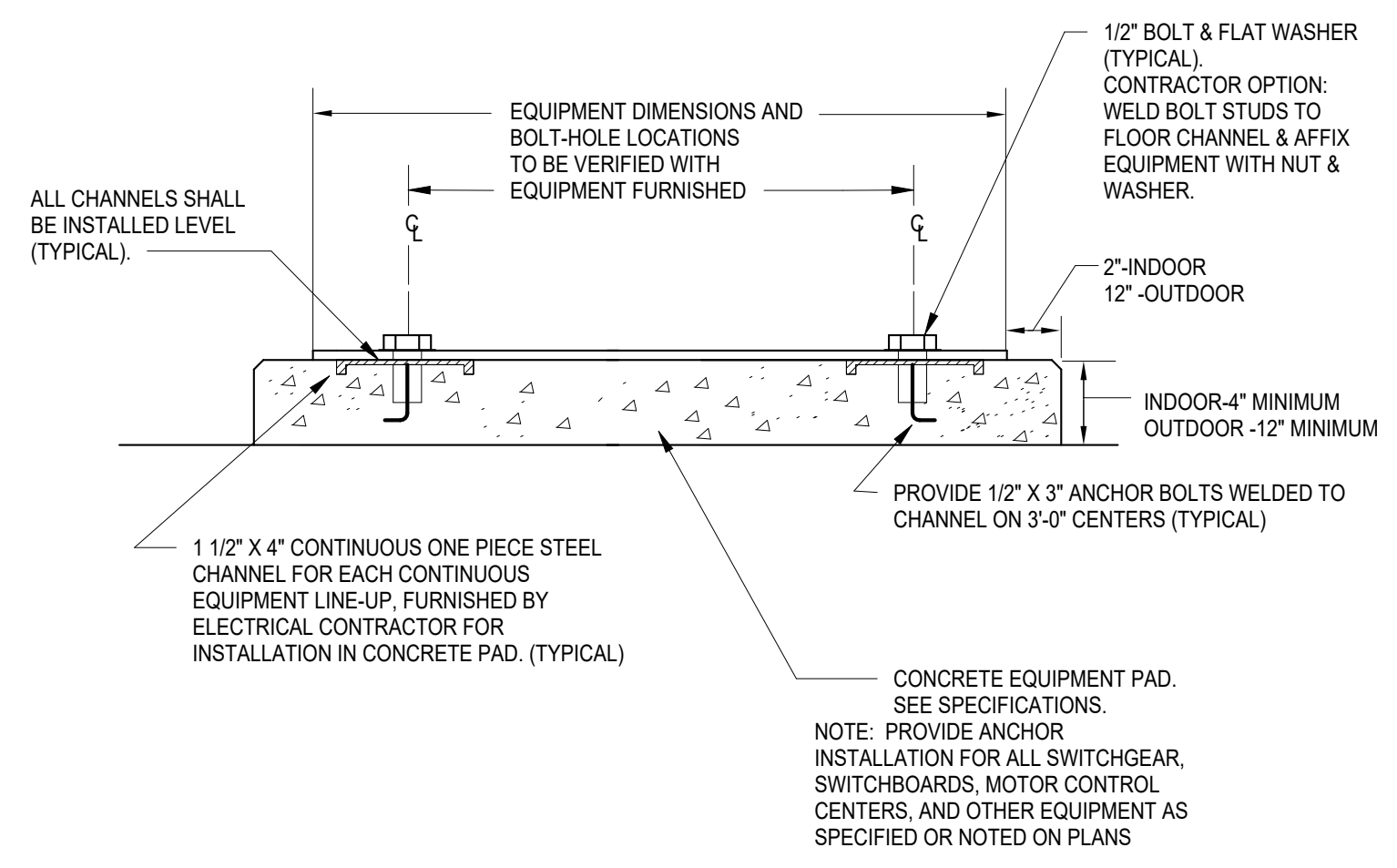
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 Author
 Plot Stamp:
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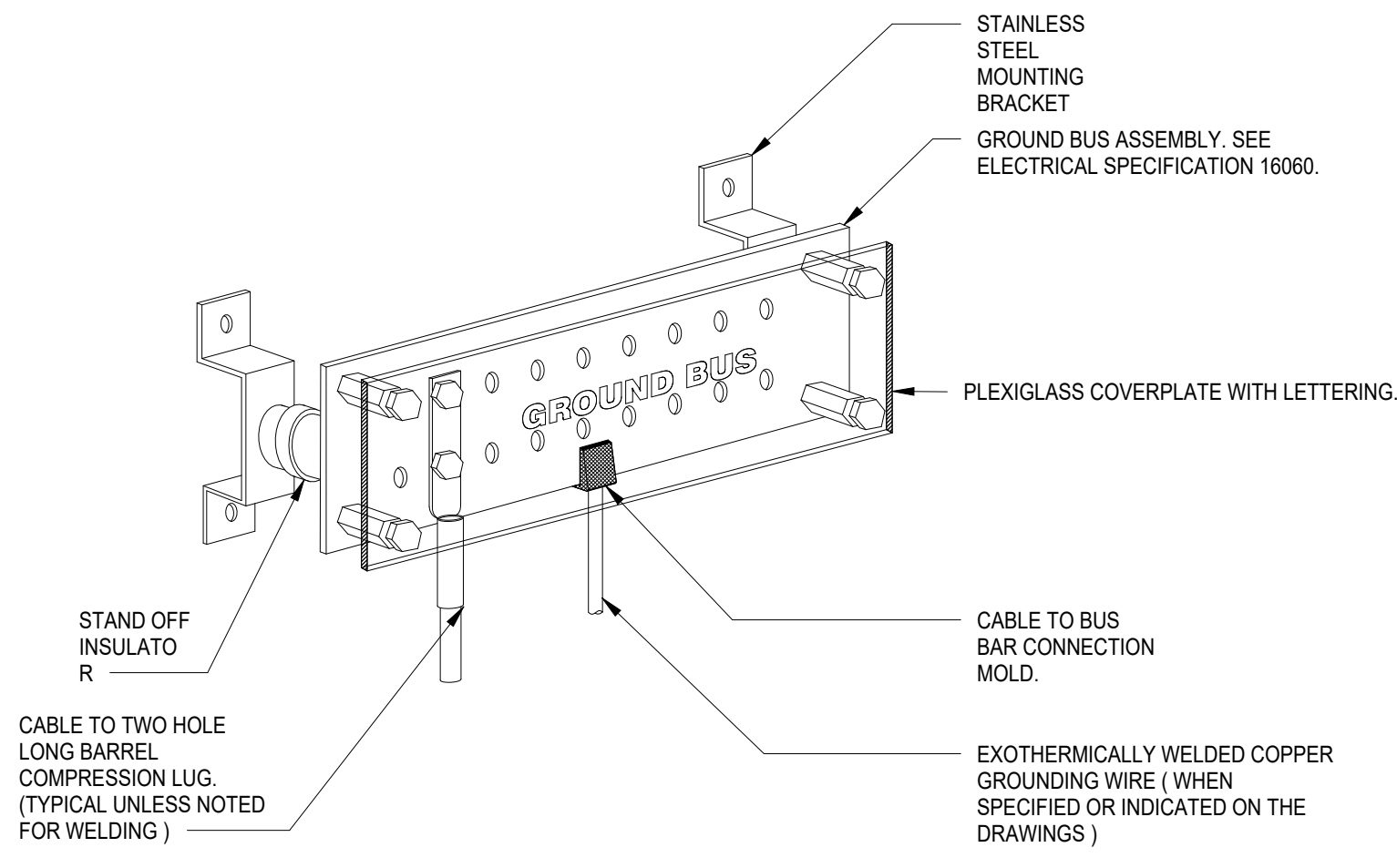
4 ELECTRIC SERVICE GROUNDING DETAIL
NOT TO SCALE



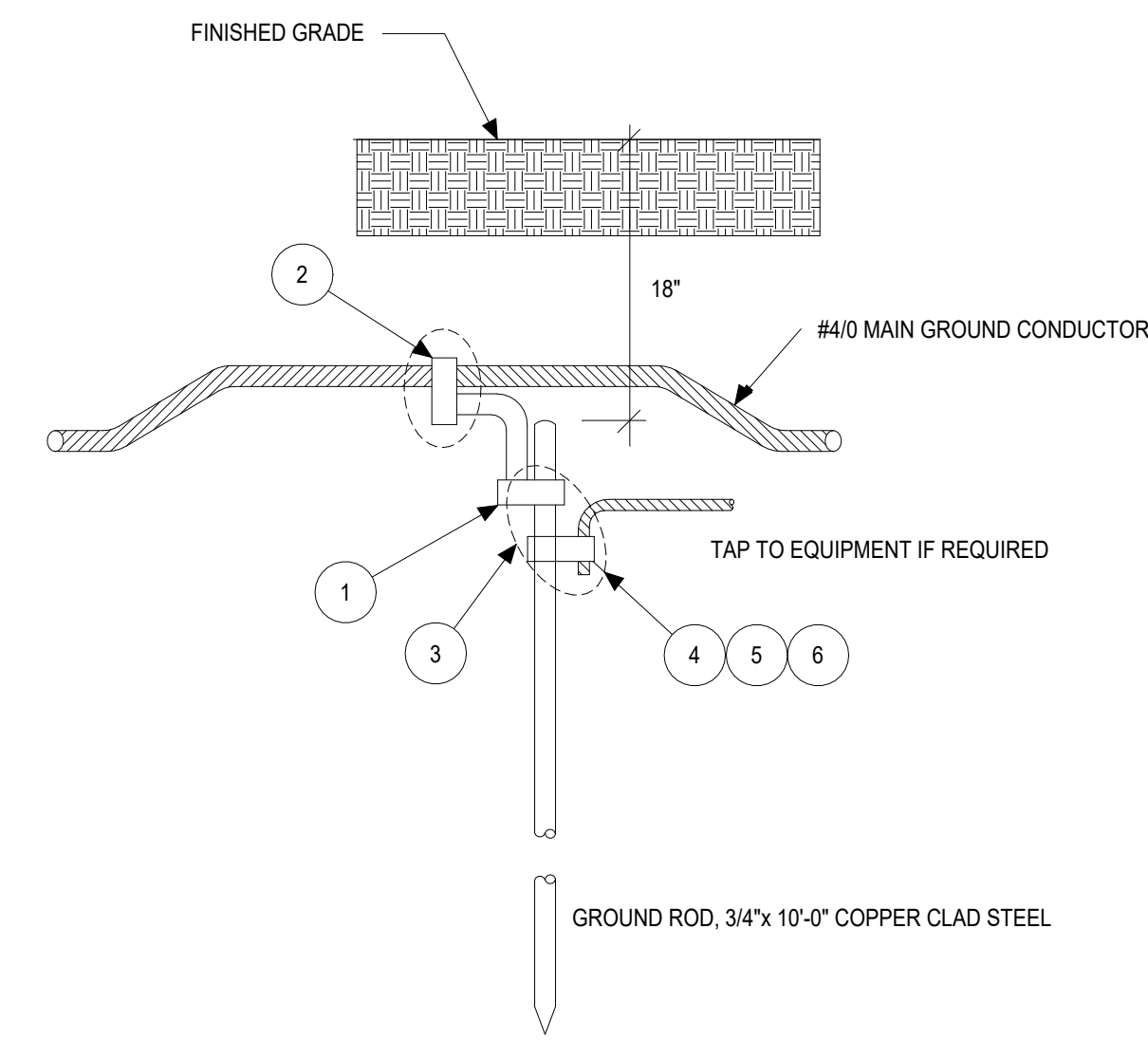
8 GROUNDING COMPRESSION CONNECTIONS
NOT TO SCALE



3 EQUIPMENT ANCHOR DETAIL
NOT TO SCALE



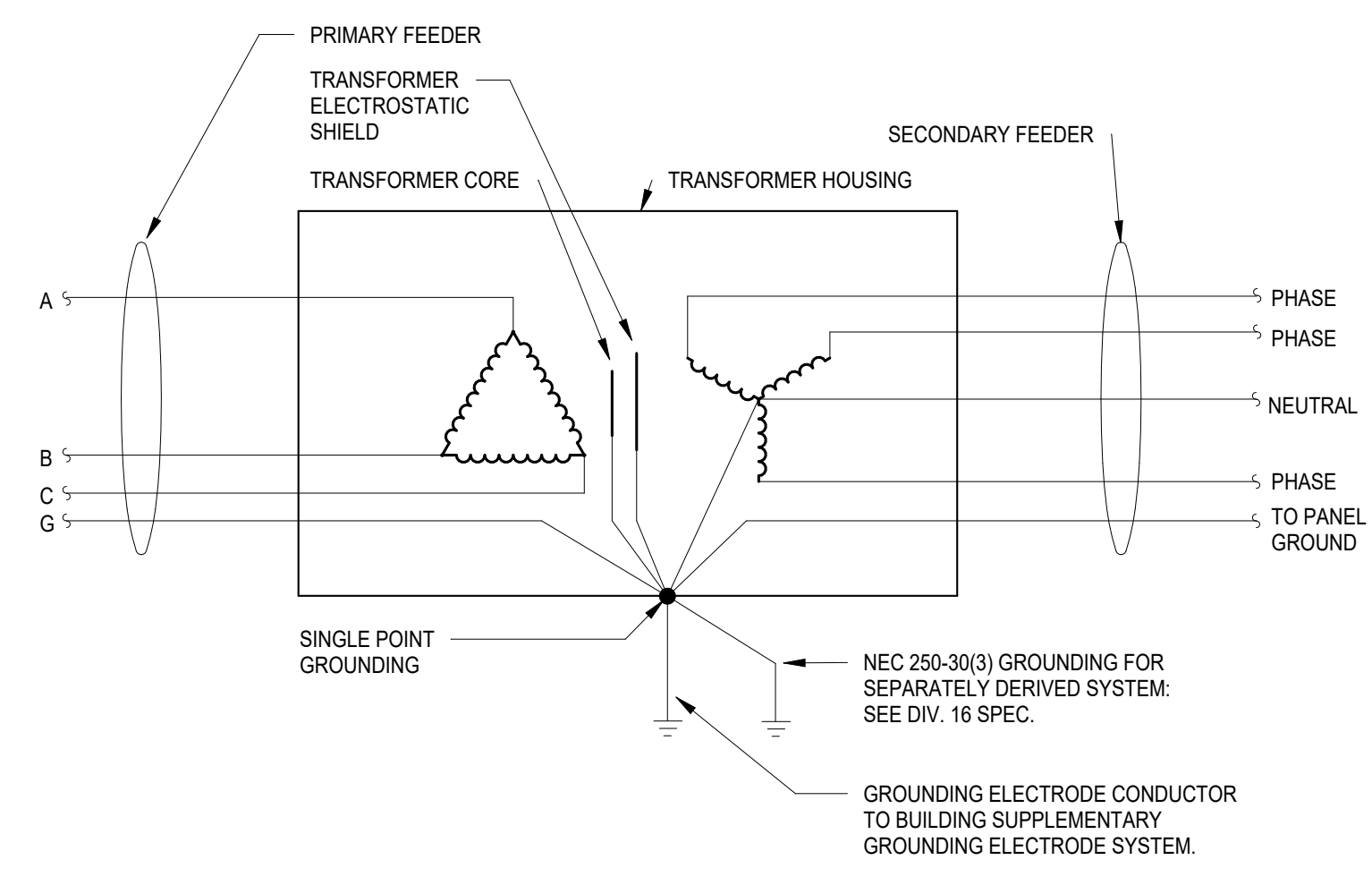
6 GROUND BUS DETAIL
NOT TO SCALE



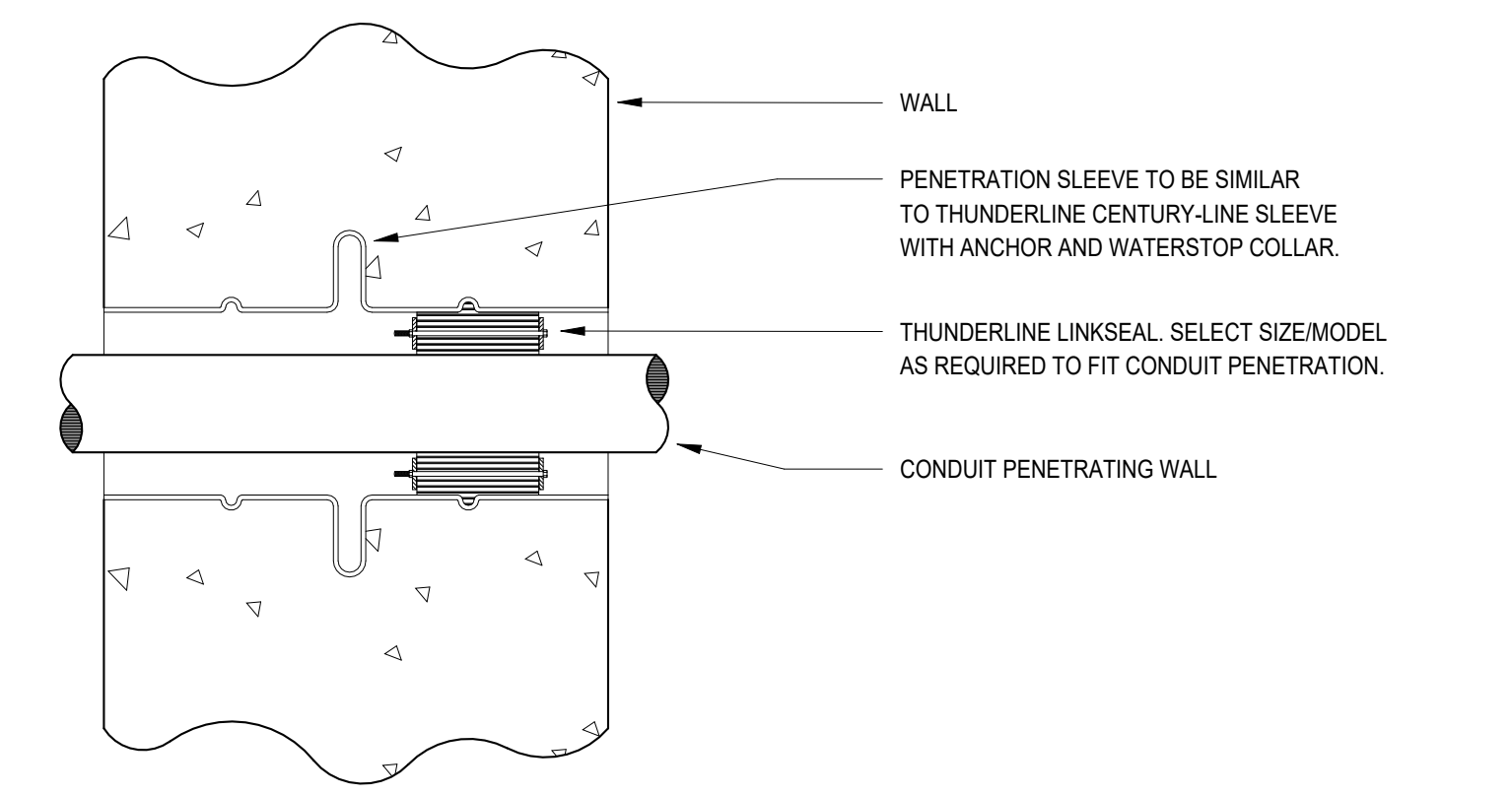
7 GROUND ROD ASSEMBLY
NOT TO SCALE

KEYED NOTES:

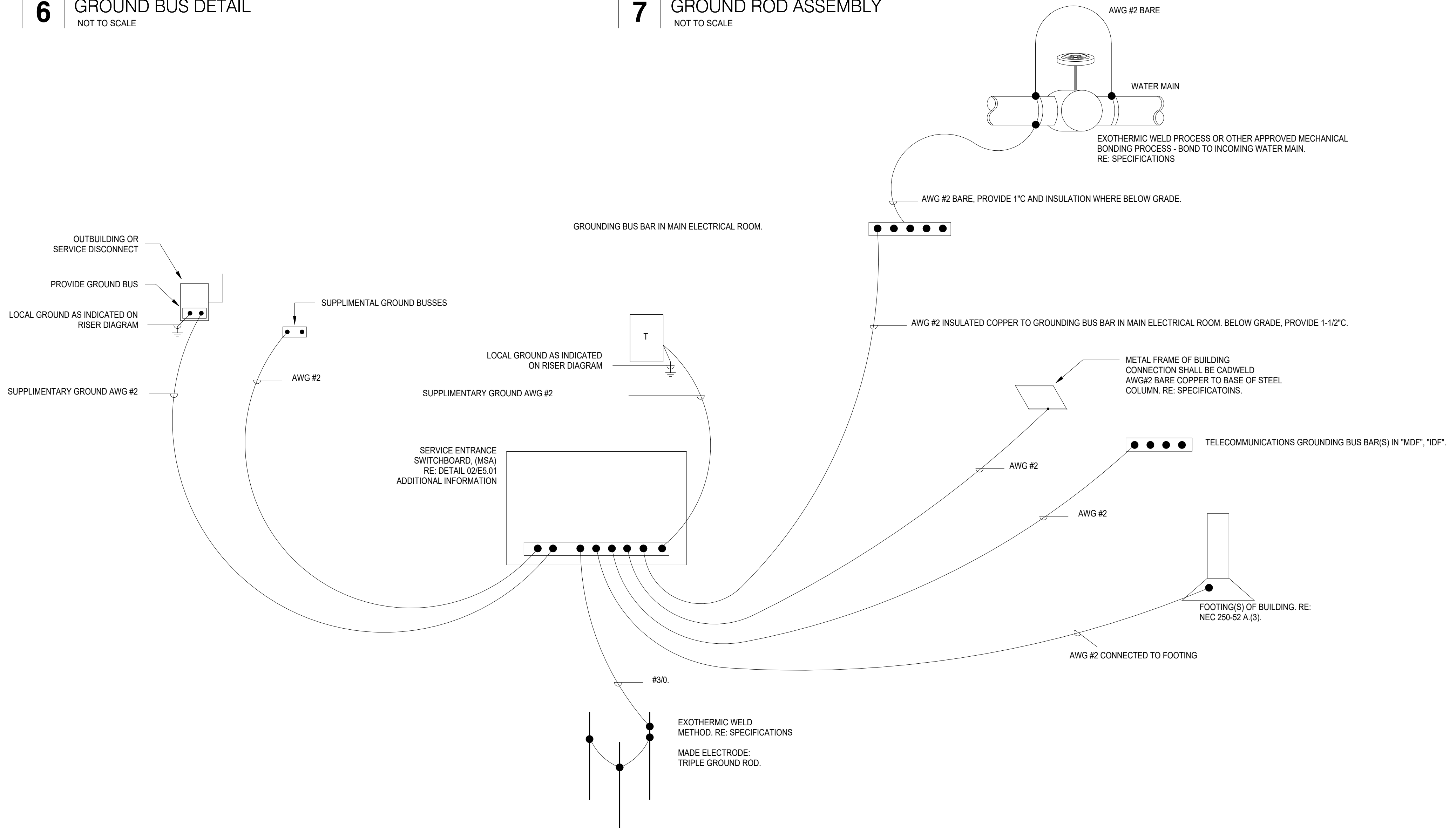
1. REQUIRES BURNDY Y750 PRESS WITH U99 FOR INSTALLATION.
2. CRIMP CONNECTOR, #2 TO 250 KCMIL TO 3/4\"/>



2 DELTA-WYE TRANSFORMER SCHEMATIC
NOT TO SCALE



1 CONDUIT PENETRATION DETAIL - EXTERIOR WALL
NOT TO SCALE



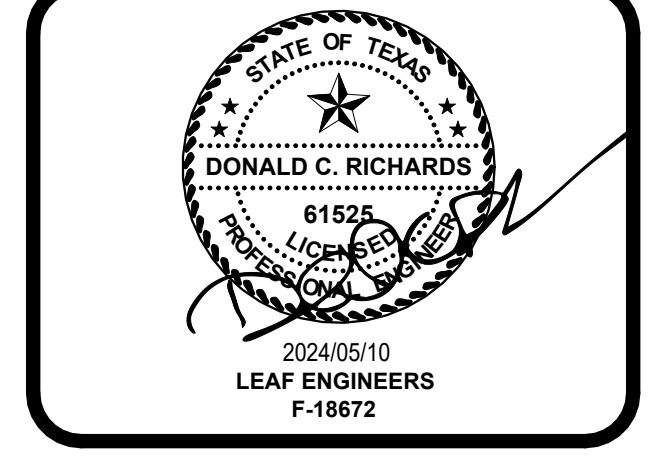
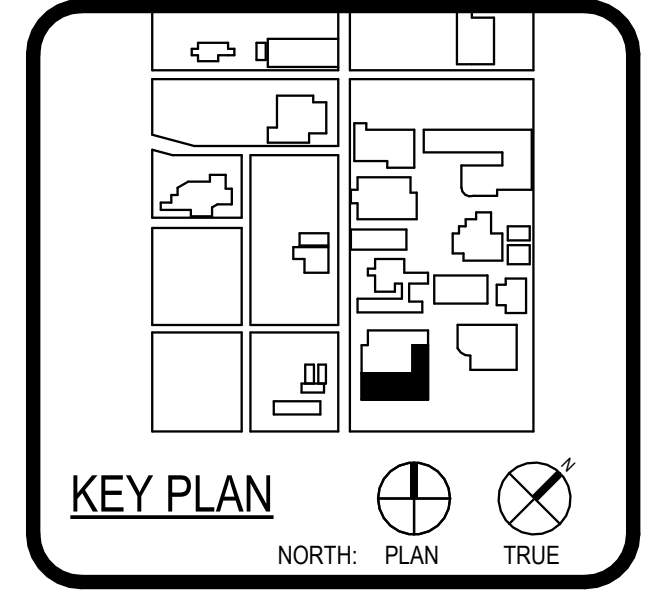
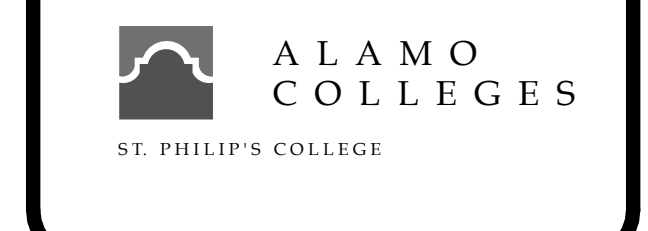
5 ELECTRICAL GROUNDING REQUIREMENTS
NOT TO SCALE



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REGISTERED PROFESSIONAL
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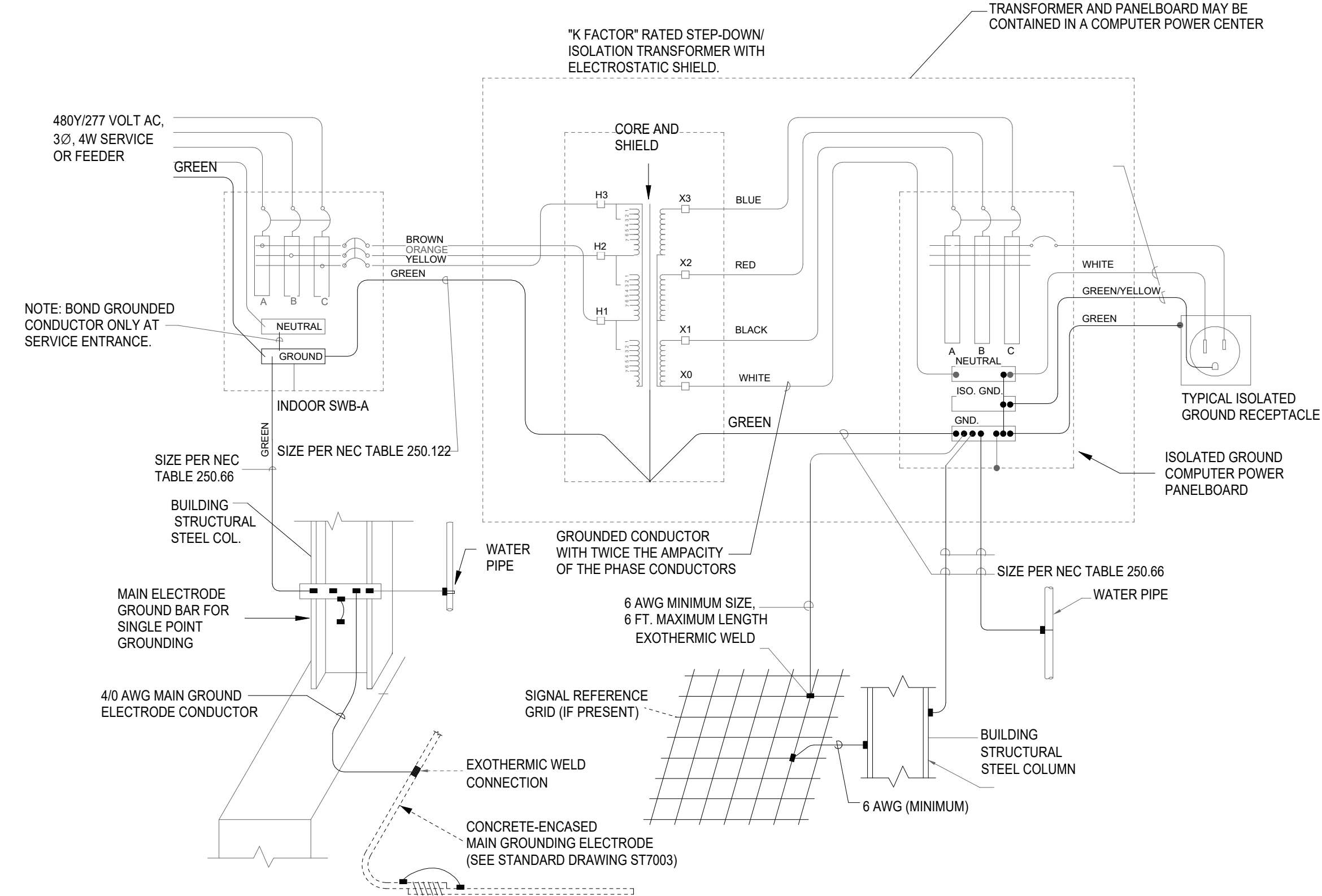
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DATE	2024/05/10	PROJECT NUMBER	230462
DRAWING HISTORY			
No.	Description	Date	

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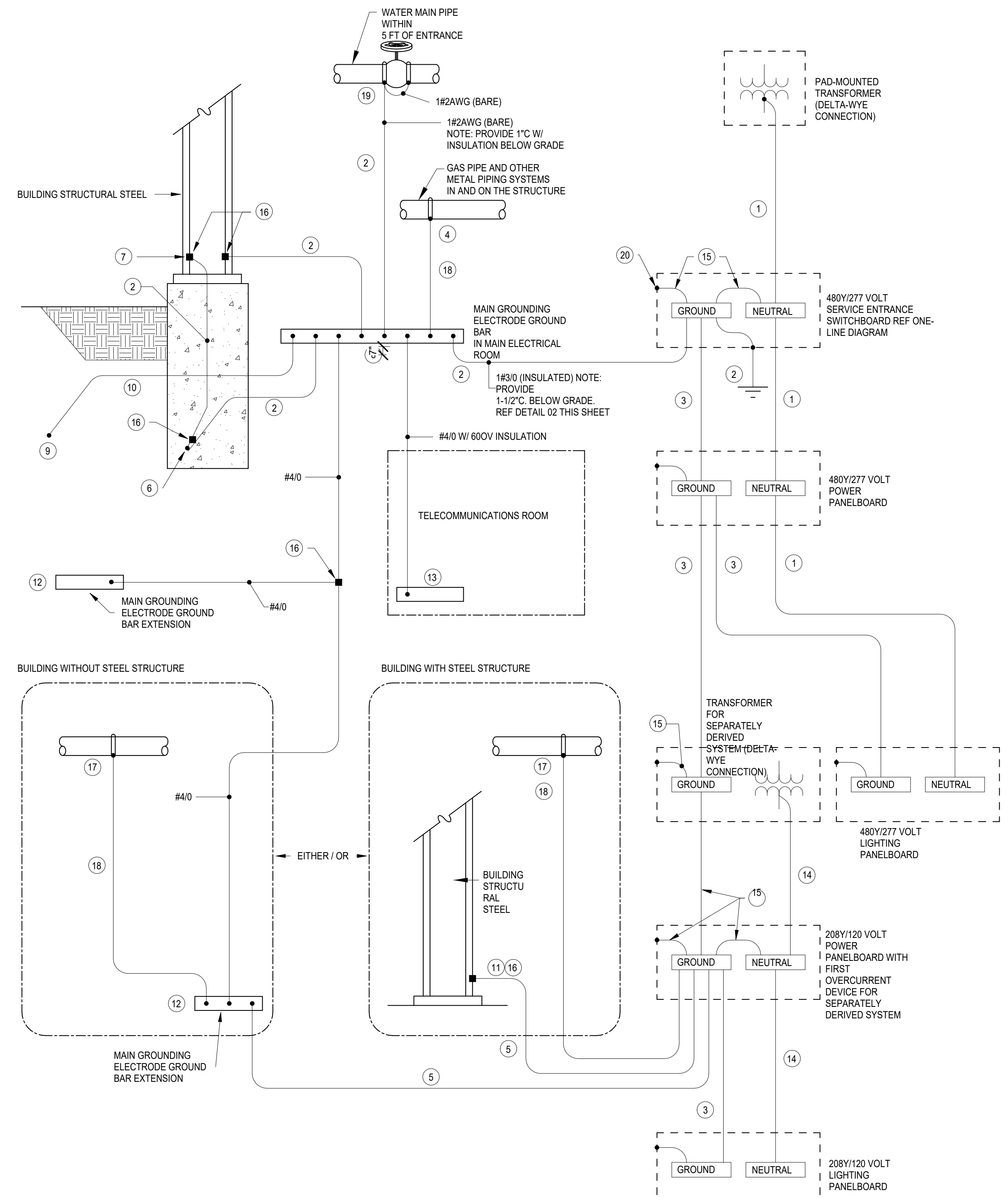
ELECTRICAL DETAILS

E-602

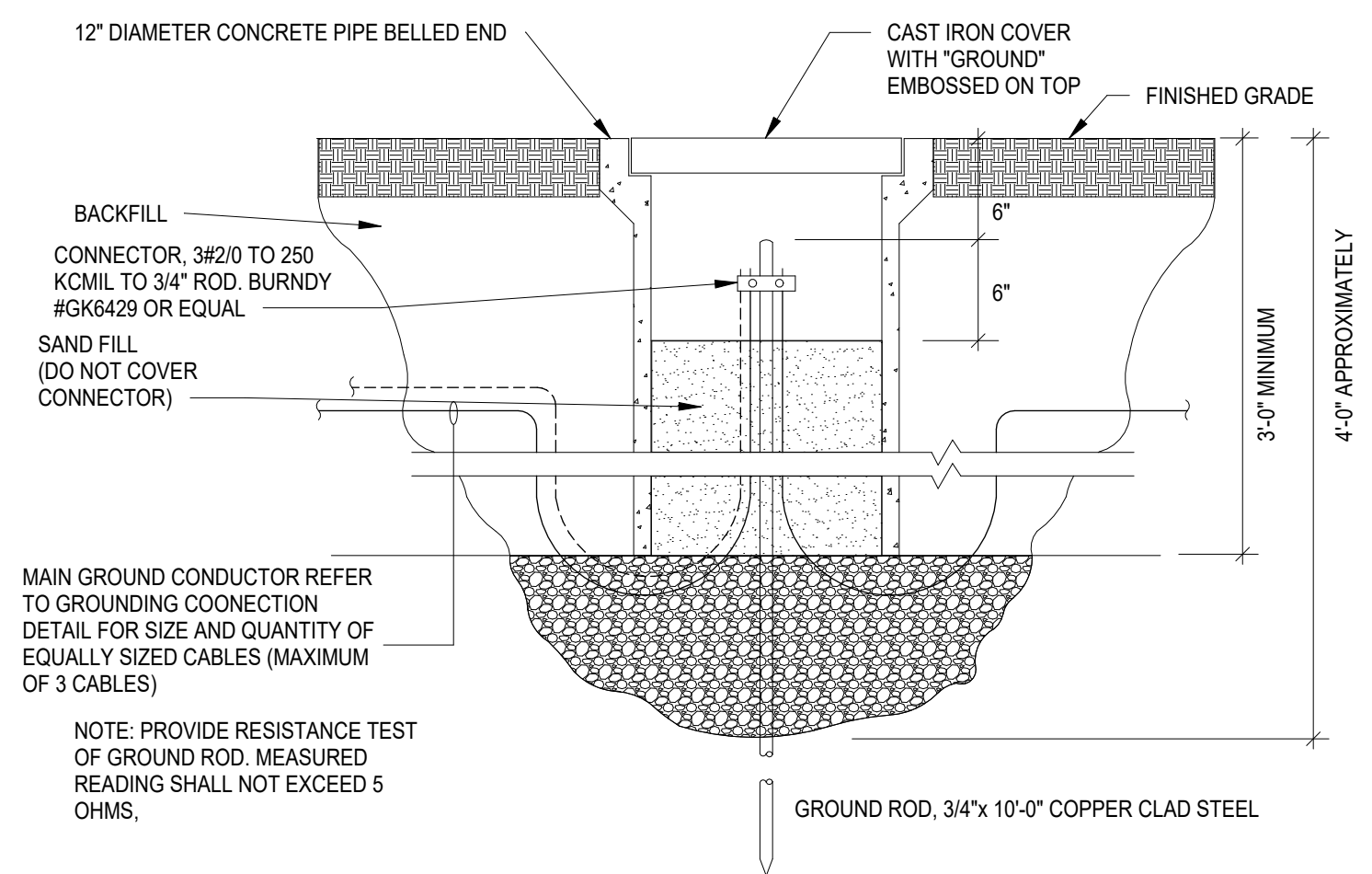
2 ISOLATED GROUND DETAIL
NOT TO SCALE



1 GROUNDING CONNECTION 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 GROUNDED (NEUTRAL) CONDUCTOR SAME SIZE AS THE LARGEST PHASE CONDUCTOR IF THE LINE-TO-NEUTRAL LOAD EXCEEDS 5% OF THE CONNECTED LOAD. IF NEUTRAL LOAD IS SMALLER, INSTALL THE NEC MINIMUM GROUNDED CONDUCTOR.
- 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 26 05 26.

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

TOTAL LENGTH	MINIMUM REBAR SIZE
112 FT	1 3/8" (#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 CABLED CONNECTION TO ATTACH GROUNDING ELECTRODE CONDUCTOR TO BASE OF STEEL COLUMN. REFER SPEC 26 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 GROUNDED (NEUTRAL) CONDUCTOR THAT IS NOT LESS THAN THE PHASE CONDUCTOR AMPACITY. IF HIGH-HARMONICS ARE PRESENT MAKE NEUTRAL AMPACITY 200% OF THE PHASE CONDUCTOR.
- 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 26 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 26 05 26.
- TYPICAL EXOTHERMIC WELD PROCESS OR OTHER APPROVED MECHANICAL BONDING PROCESS. REFER SPEC 26 05 26, UNLESS NOTED OTHERWISE.

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ALAMO COLLEGES
 ST. PHILIP'S COLLEGE

KEY PLAN
 NORTH PLAN TRUE

DONALD C. RICHARDS
 6152
 2/24/05/10
 LEAF ENGINEERS
 F-16672

CLIENT: Alamo Colleges
 DATE: 2024/05/10 PROJECT NUMBER: 230462
 DRAWING HISTORY:

No.	Description	Date

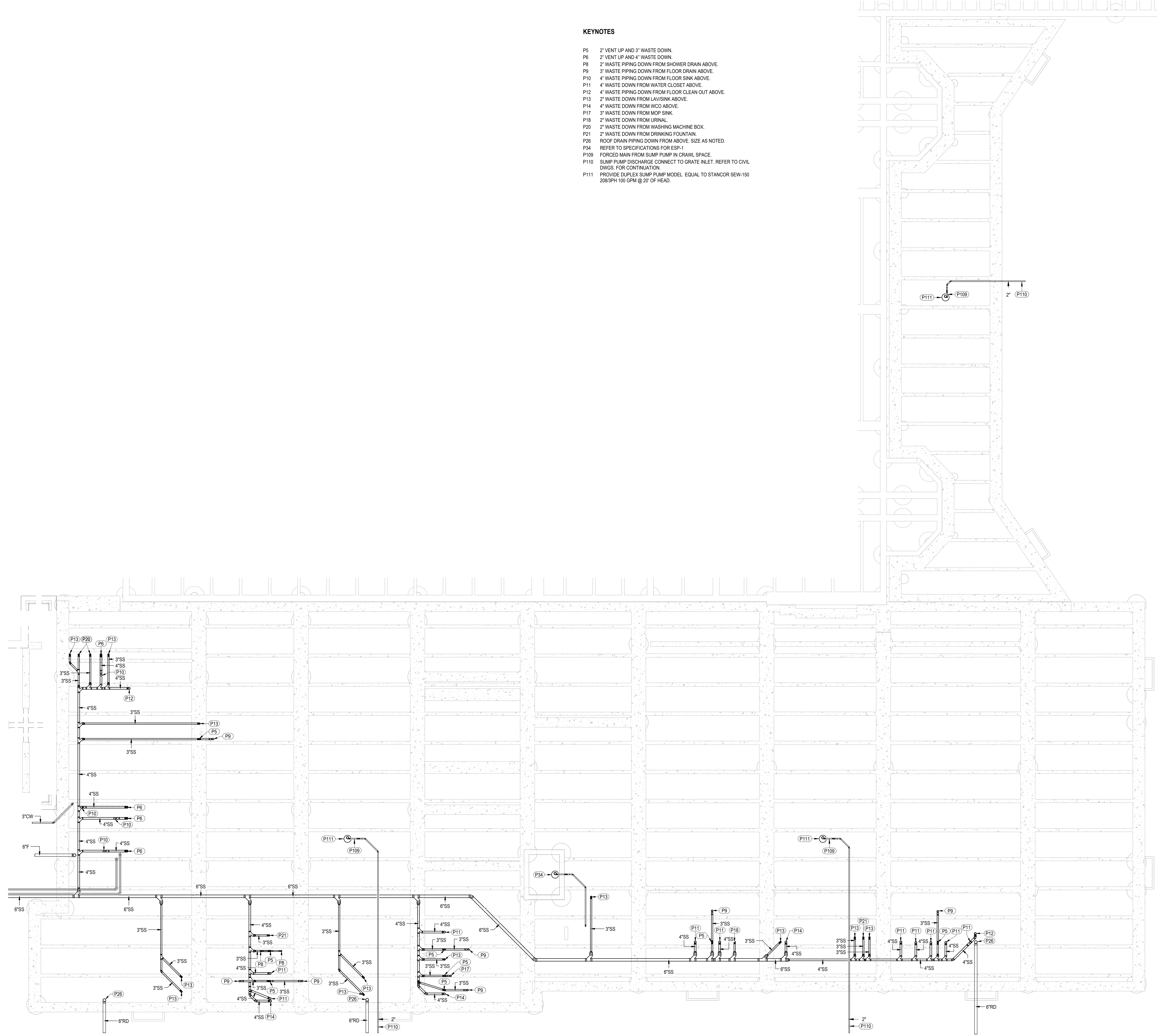
ISSUE FOR PERMIT
 BUILDING NUMBER:

ELECTRICAL DETAILS

E-603

ISSUE FOR PERMIT

CRAWL SPACE PLUMBING PLAN
 PU-101-A
 FOR BLUEBEAM LABELING CORR.



- KEYNOTES**
- 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.
 - P22 ROOF DRAIN PIPING DOWN FROM ABOVE. SIZE AS NOTED.
 - 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-150 208/3PH 100 GPM @ 20' OF HEAD.

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

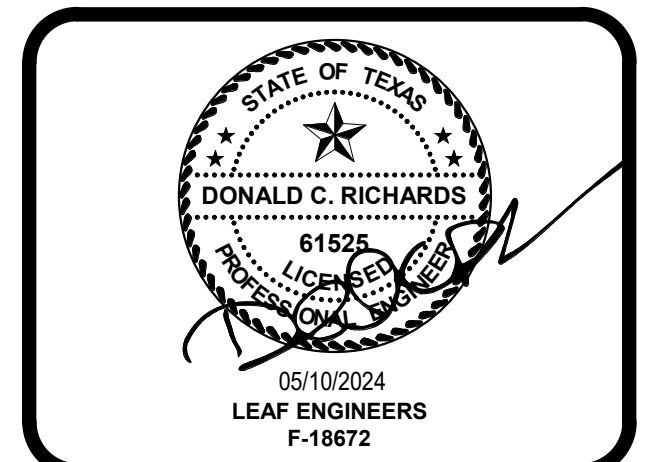
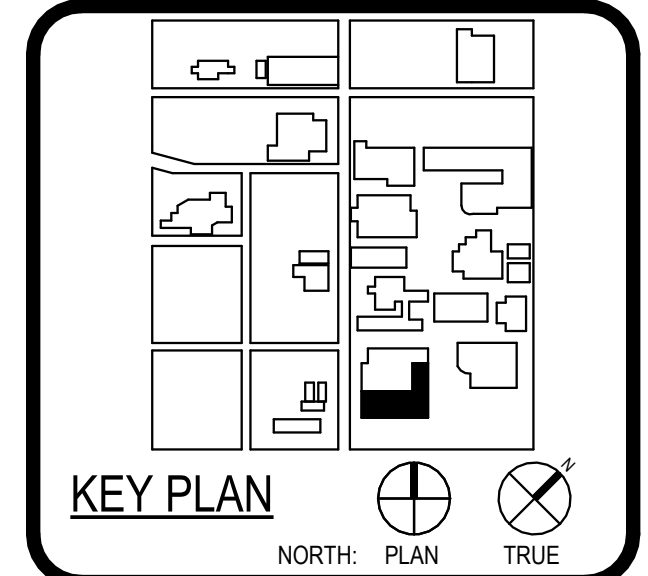
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ASSOCIATE ARCHITECT	MAX ARCHITECTS 2222 1311 LANDSCAPE BOSCH GROUP 111-111-1111 LUNY & FRANK ENGINEERING 111-111-1111 111-111-1111 111-111-1111 111-111-1111 111-111-1111 111-111-1111 111-111-1111



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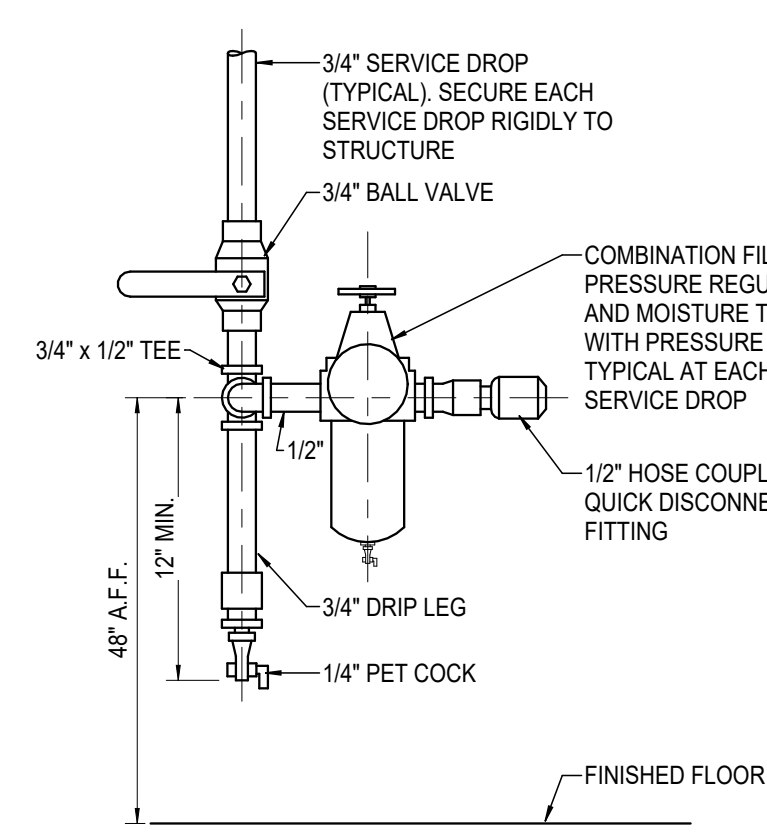
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DATE	05/10/2024	
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No.	Description	Date

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CRAWLSPACE PLUMBING PLAN

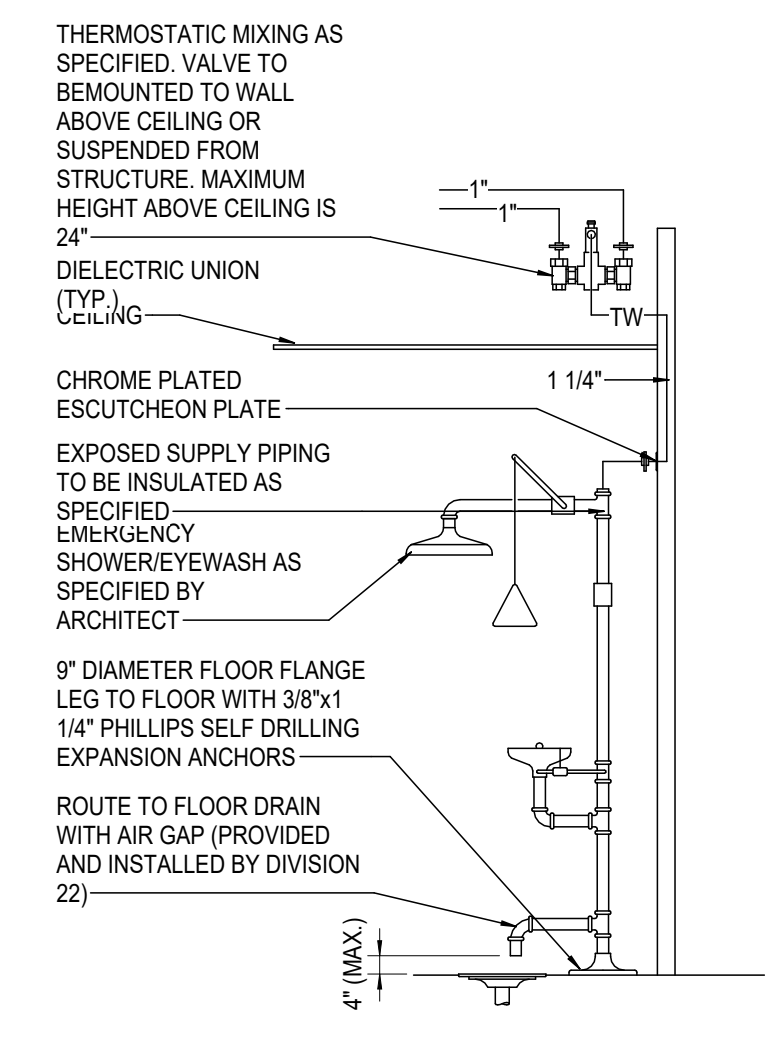
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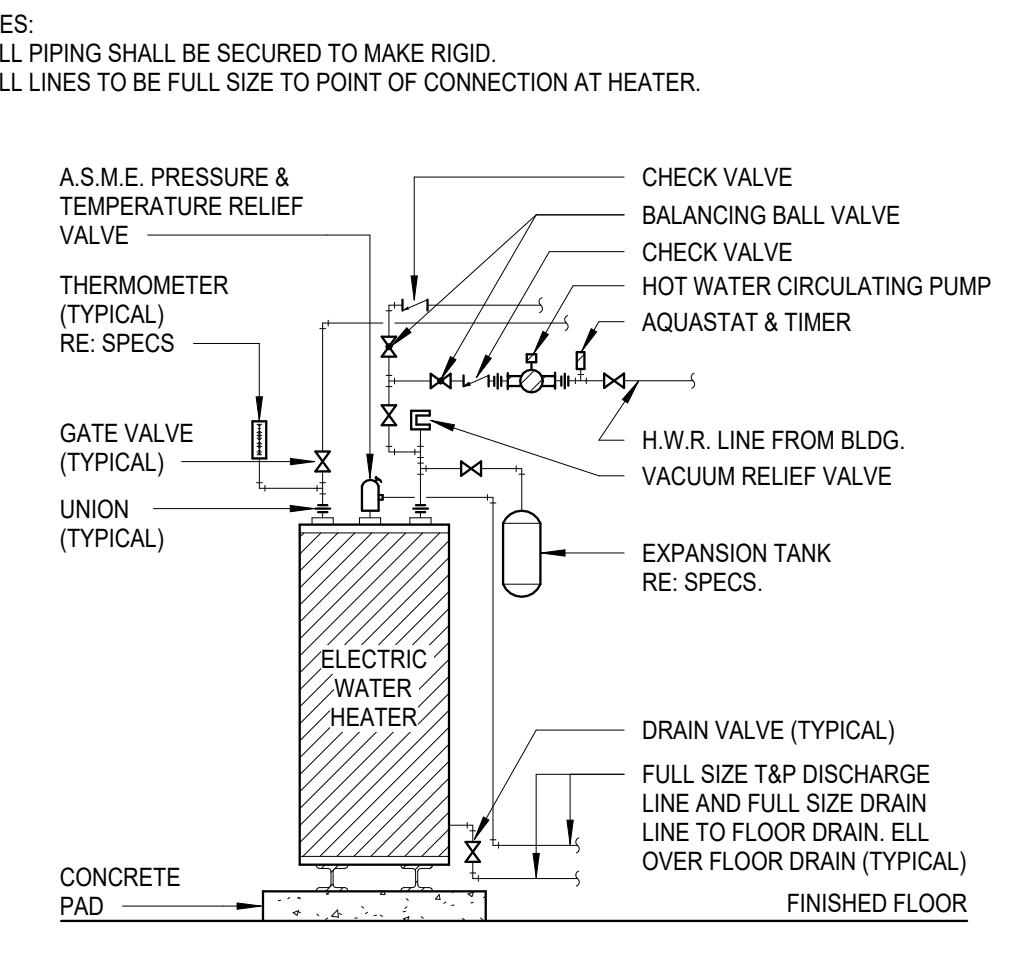
10 COMPRESSED AIR OUTLET DETAIL
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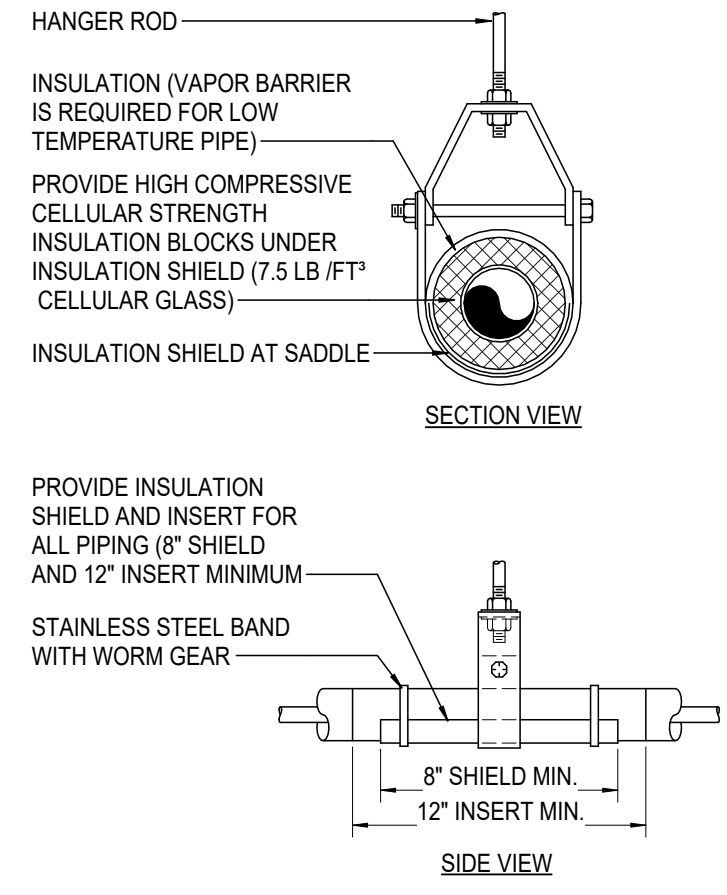
7 EMERGENCY SHOWER/EYEWASH DETAIL
SCALE: NOT TO SCALE



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



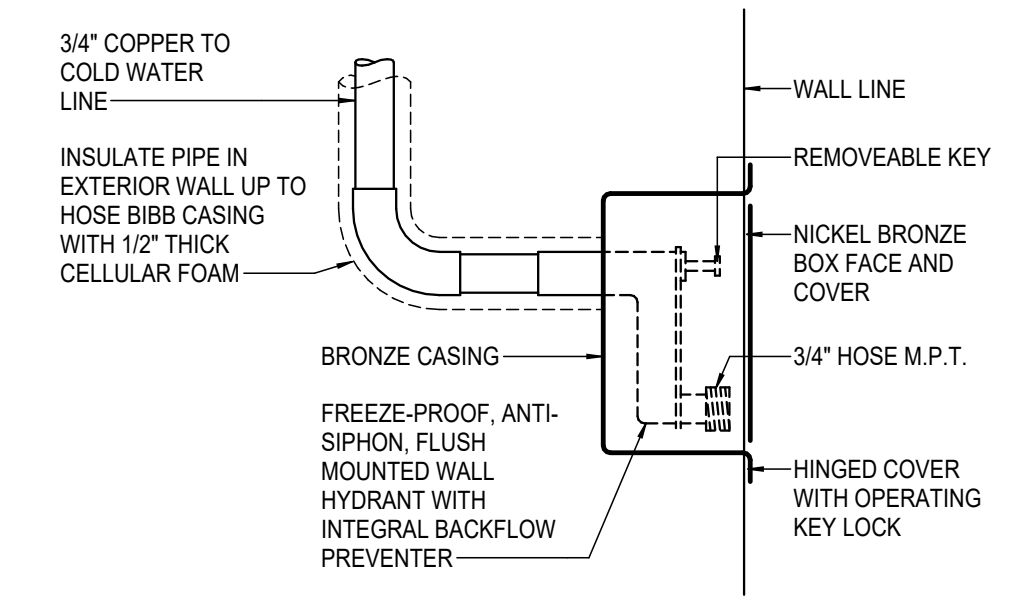
1 ADJUSTABLE CLEVIS PIPE HANGER DETAIL
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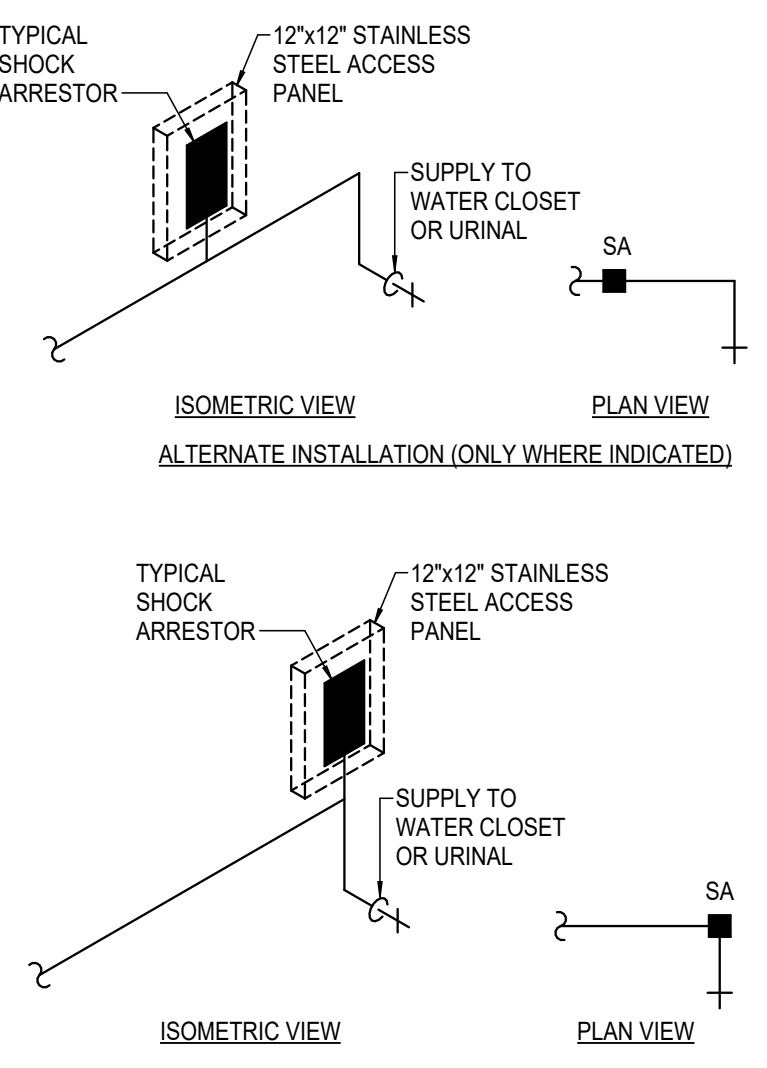
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PIPING	7'	7'	7'	9'	10'	10'	10'	10'	10'	10'	10'	10'	10'
TUBING	5'	6'	6'	6'	8'	8'	8'	8'	8'	8'	8'	8'	8'

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

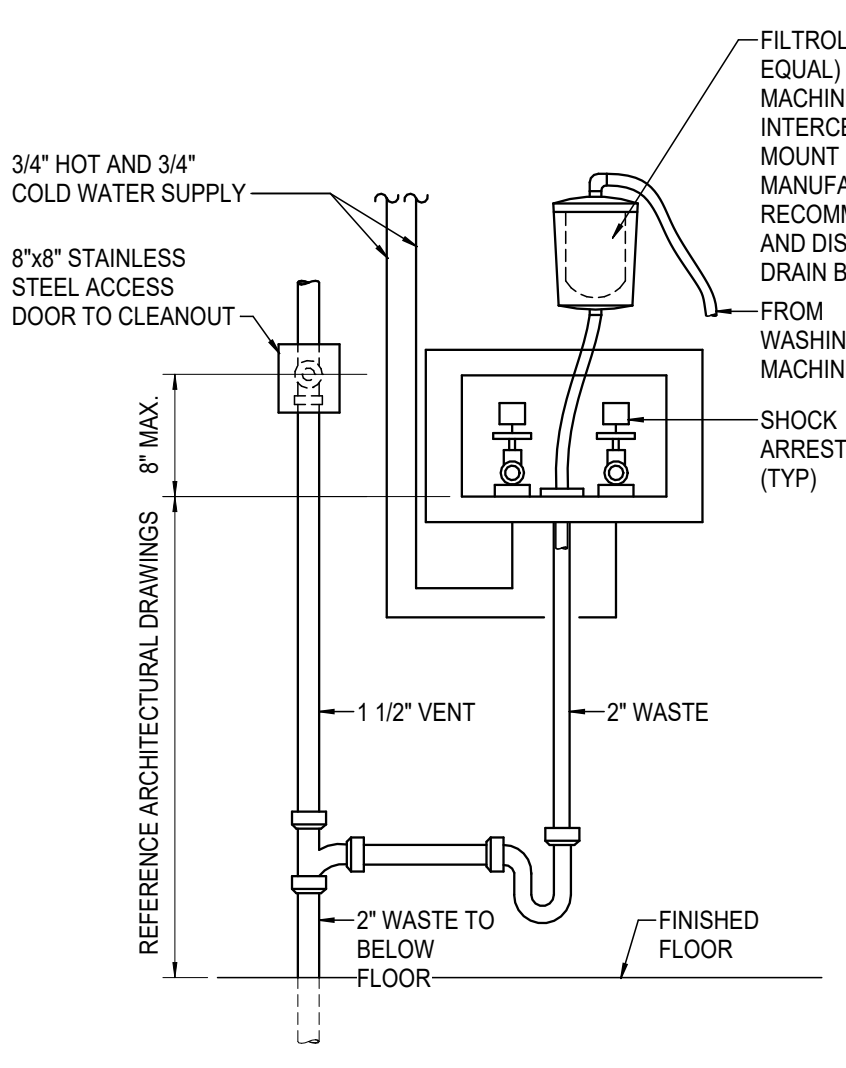
11 WALL HYDRANT DETAIL
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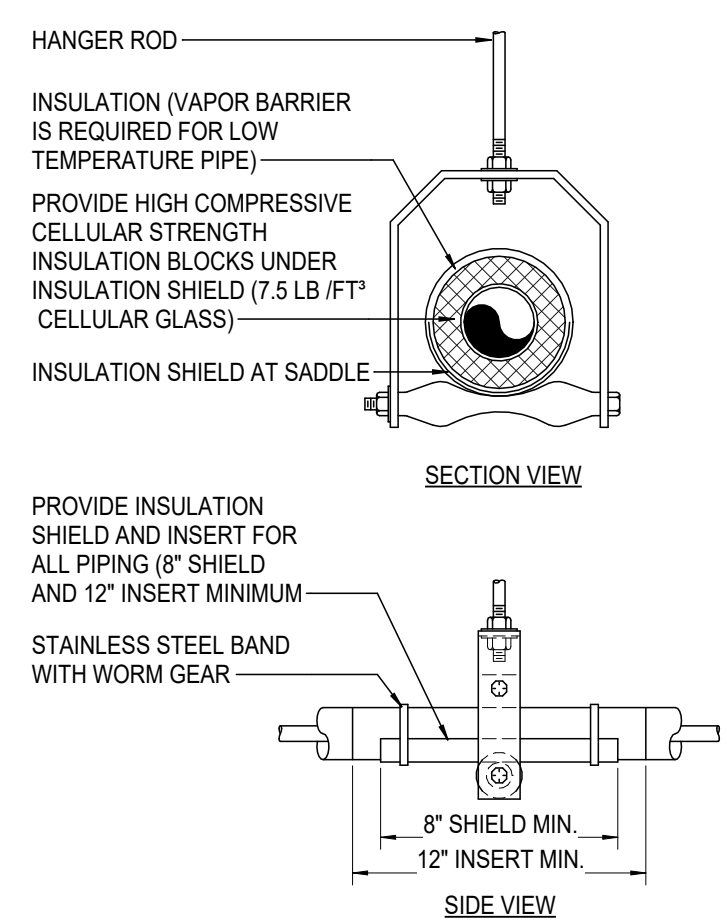
8 SHOCK ARRESTOR DETAIL
SCALE: NOT TO SCALE



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



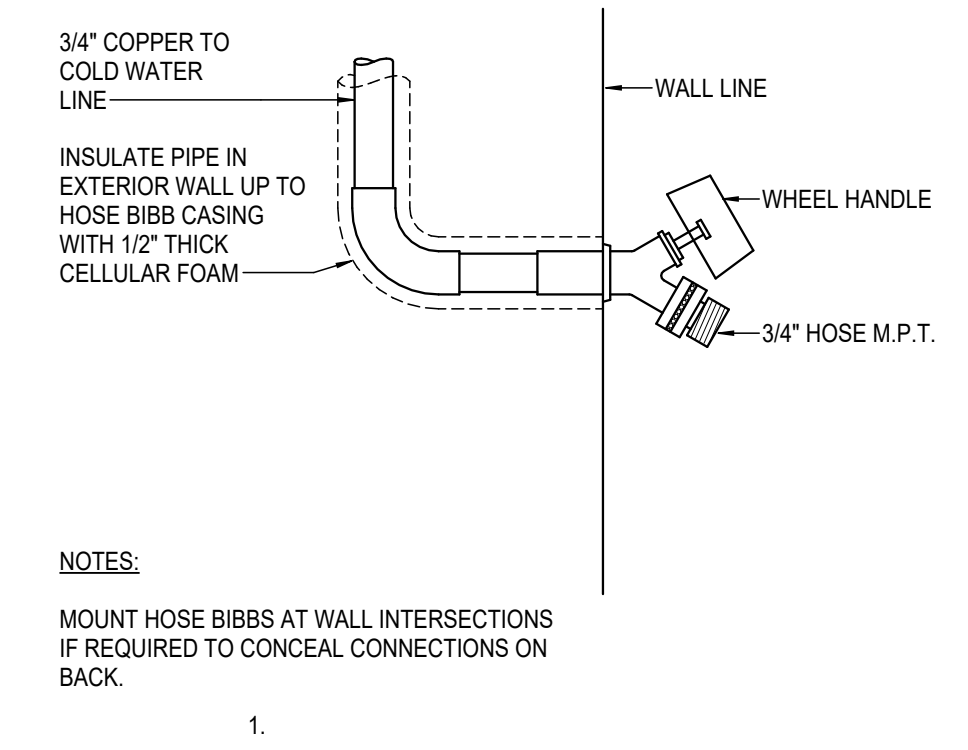
2 ADJUSTABLE ROLLER PIPE HANGER DETAIL
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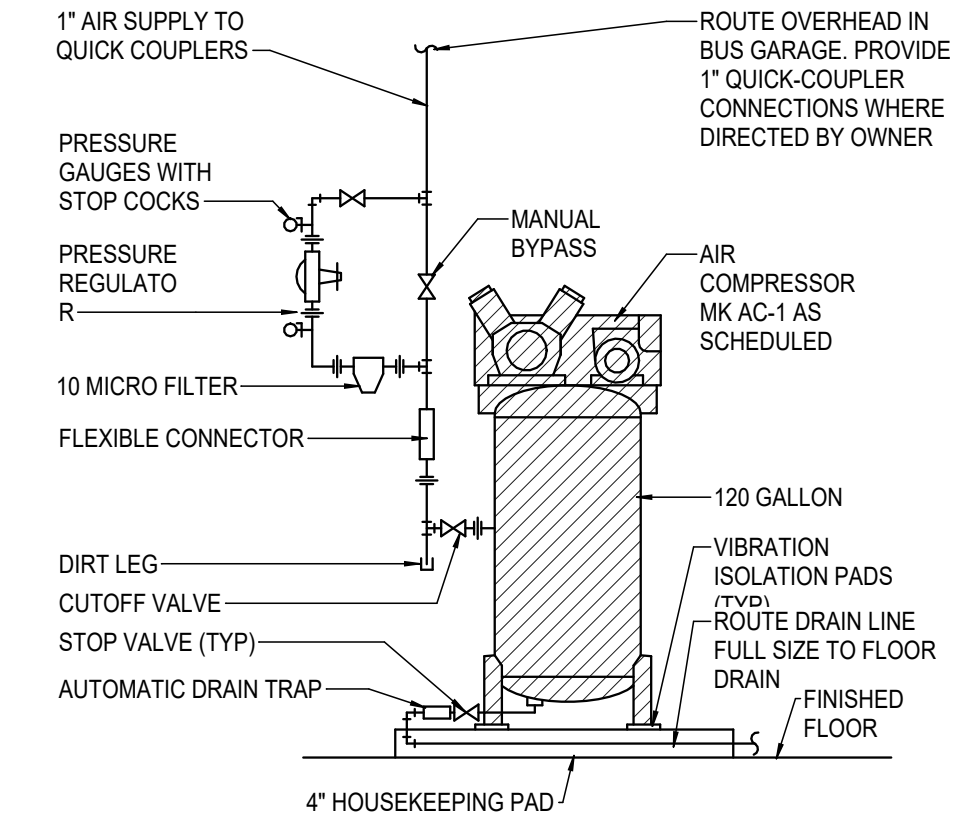
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PIPING	7'	7'	7'	9'	10'	10'	10'	10'	10'	10'	10'	10'	10'
TUBING	5'	6'	6'	6'	8'	8'	8'	8'	8'	8'	8'	8'	8'

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

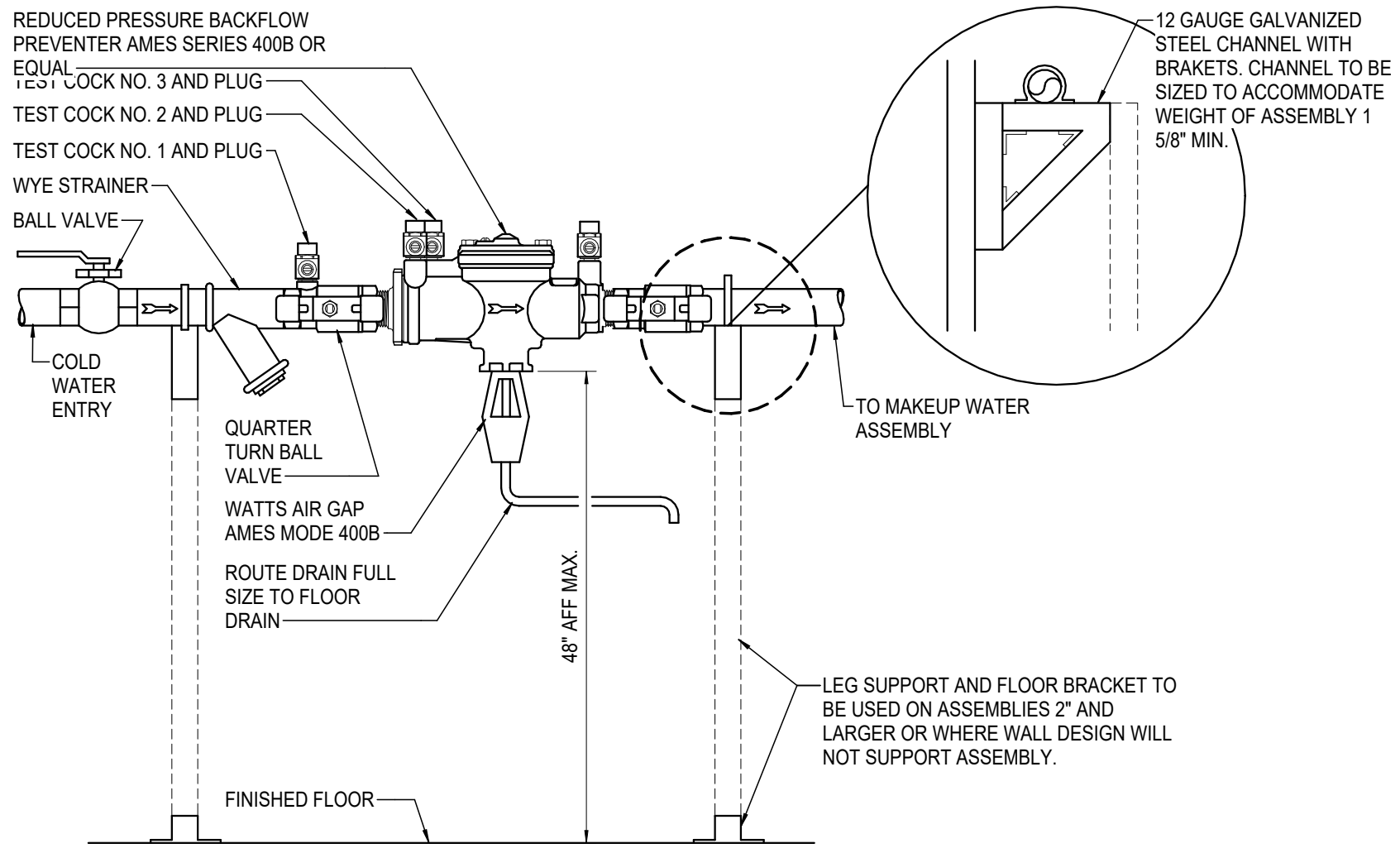
12 WALL HYDRANT DETAIL
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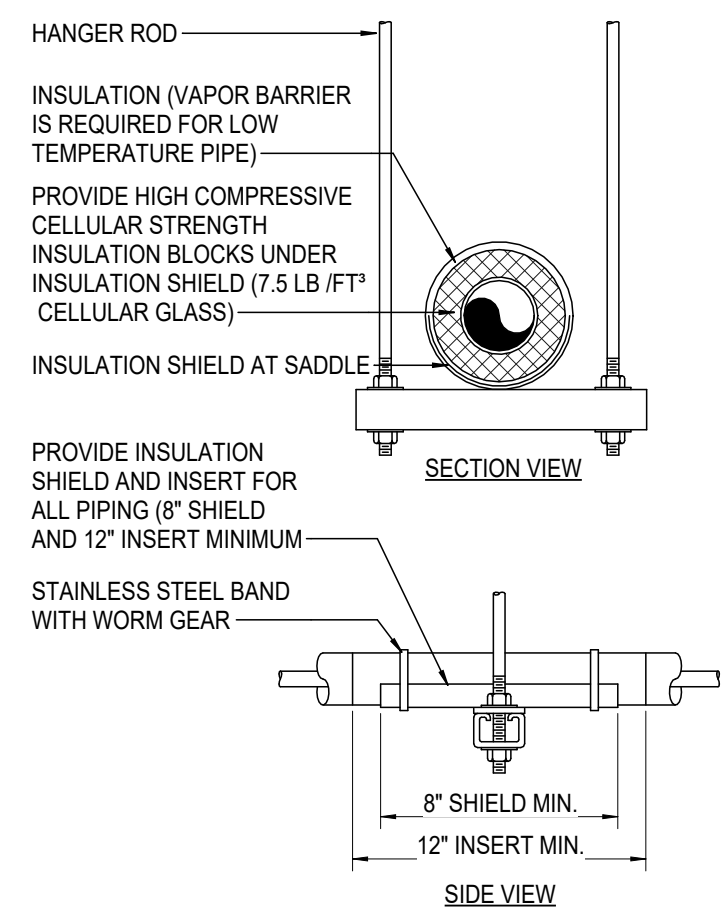
9 AIR COMPRESSOR PIPING DETAIL
SCALE: NOT TO SCALE



6 BACKFLOW PREVENTER MOUNTING DETAIL
SCALE: NOT TO SCALE



3 TRAPEZE PIPE HANGER DETAIL
SCALE: NOT TO SCALE



MAXIMUM PIPING / TUBING SUPPORT SPACING													
NOM. SIZE	3/4"	1"	1 1/4"	1 1/2"	2"	3"	4"	5"	6"	8"	10"	12"	
PIPING	7'	7'	7'	9'	10'	10'	10'	10'	10'	10'	10'	10'	10'
TUBING	5'	6'	6'	6'	8'	8'	8'	8'	8'	8'	8'	8'	8'

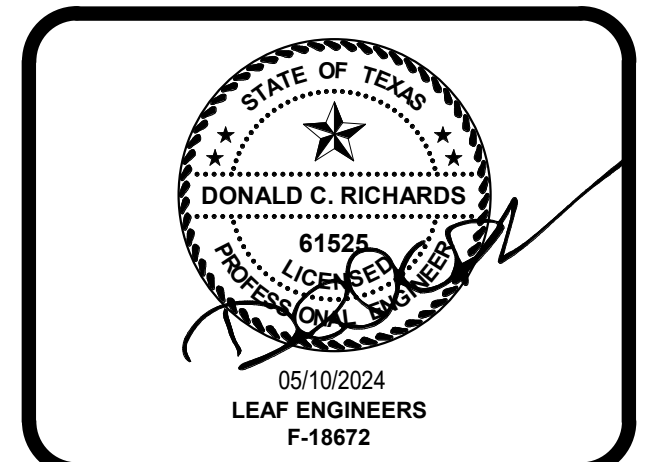
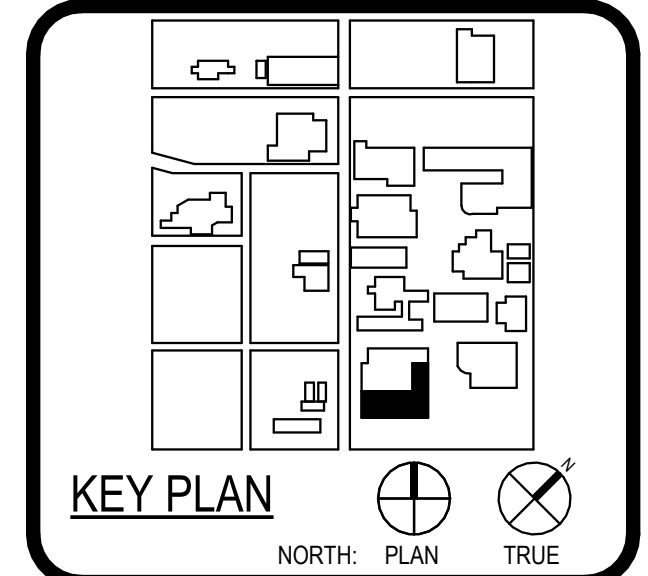
NOTE: FOR TRAPEZE HANGER TAKE SPACING OF SMALLEST SIZE ON TRAPEZE.



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LANDSCAPE ARCHITECT	LANDSCAPE
1111 W. LOOP WEST	
SUITE 100	
DALLAS, TEXAS 75244	
MECHANICAL ENGINEER	LUNY & FRANK ENGINEERING
1111 W. LOOP WEST	
SUITE 100	
DALLAS, TEXAS 75244	
MECHANICAL ENGINEER	MECHANICAL
1111 W. LOOP WEST	
SUITE 100	
DALLAS, TEXAS 75244	

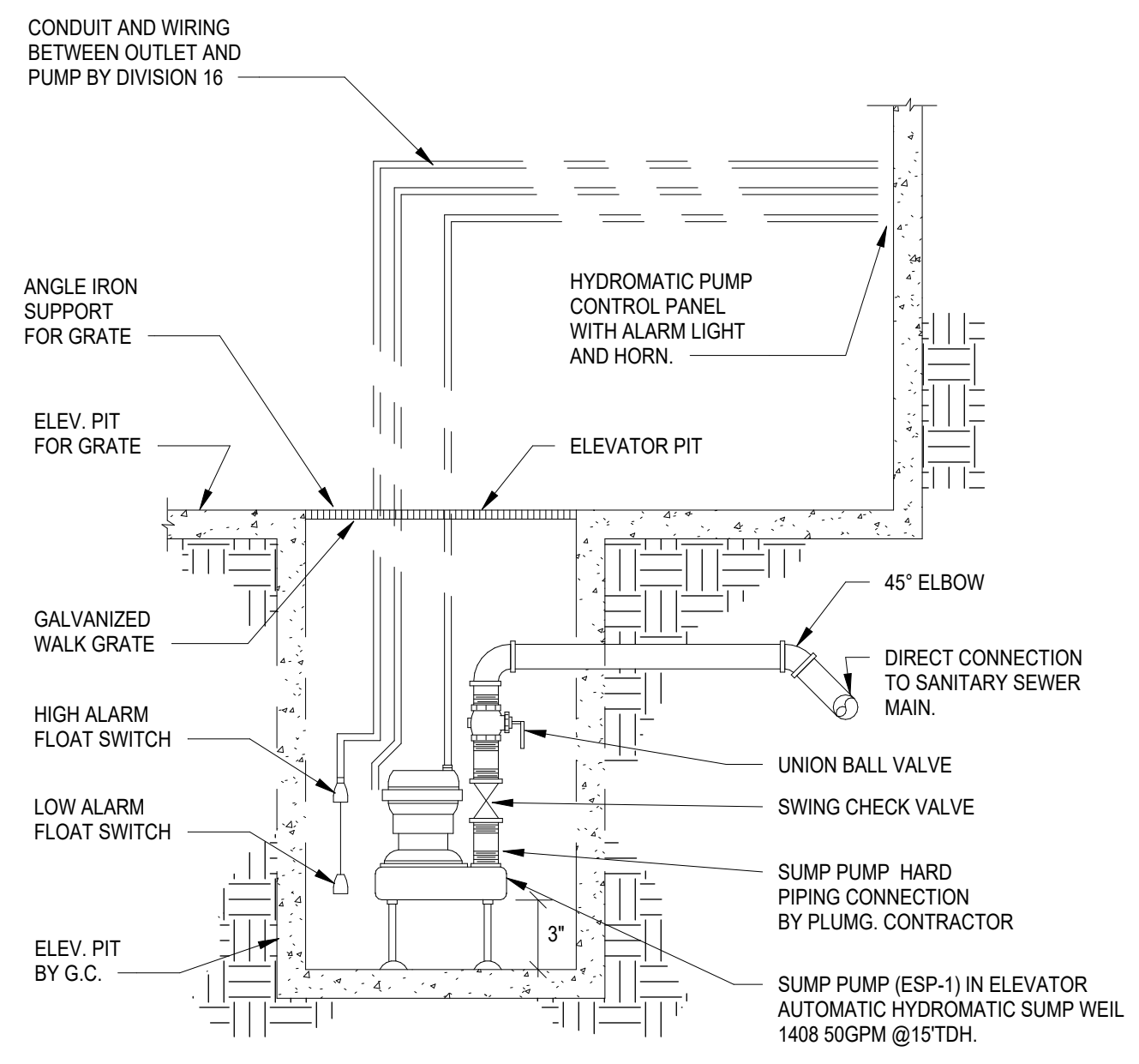


WFAC Black Box Addition PKG 1



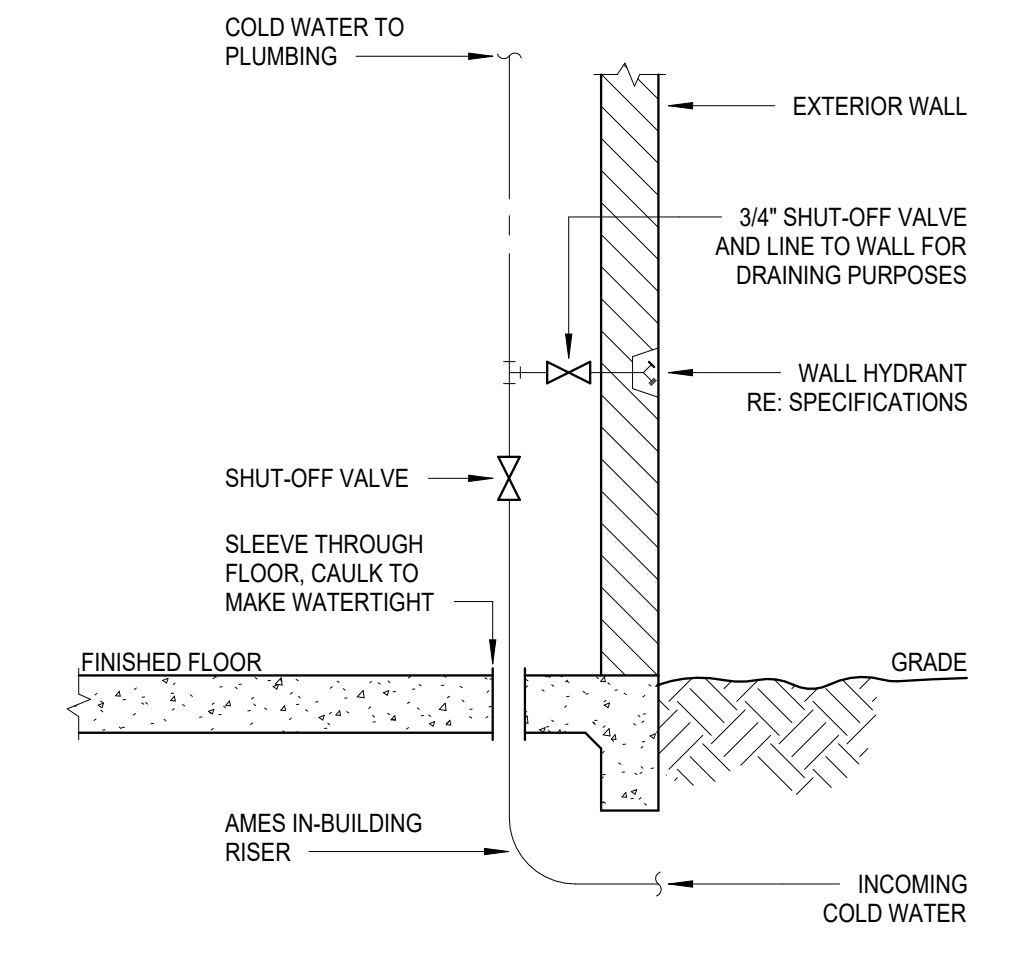
CLIENT		Alamo Colleges
DATE	05/10/2024	PROJECT NUMBER
DRAWING HISTORY		230462
No.	Description	Date

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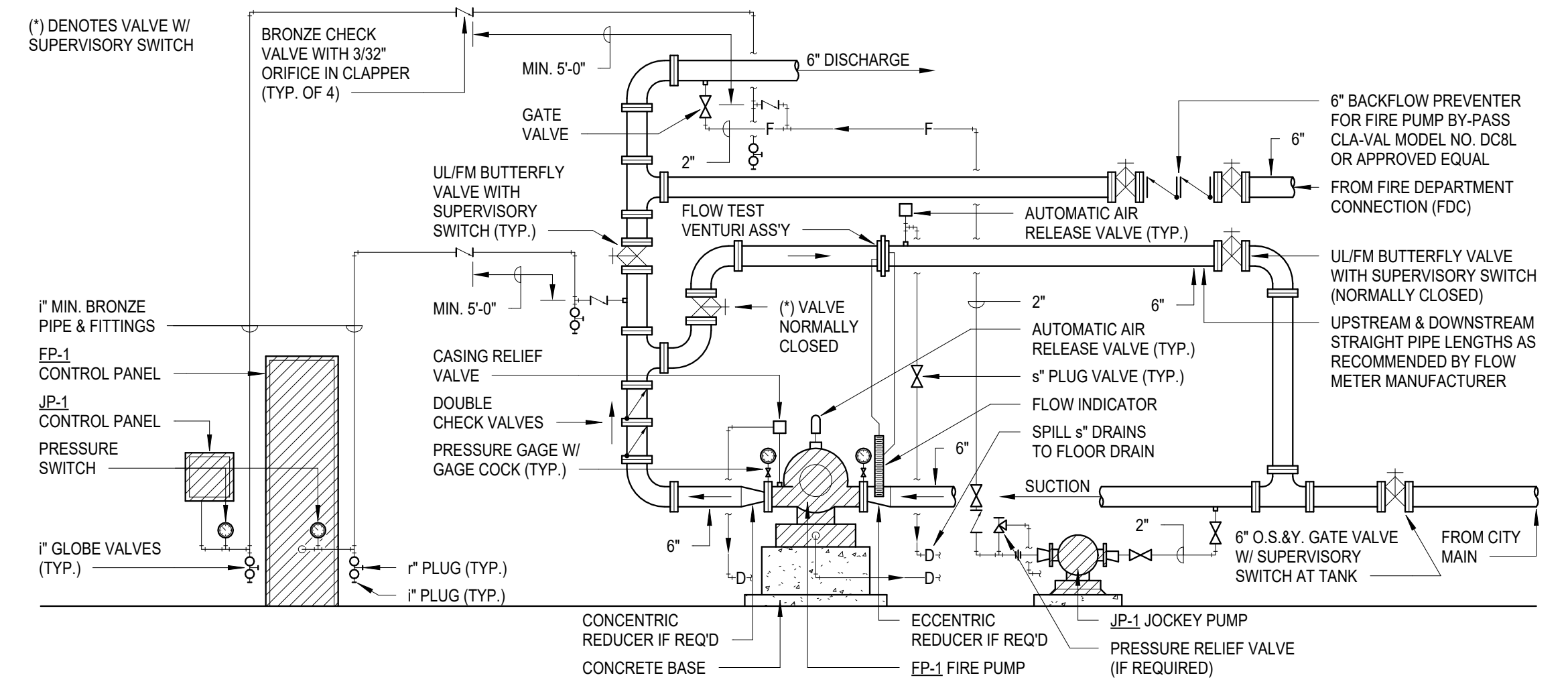


4 SIMPLEX ELEVATOR SUMP PUMP
 SCALE: N.T.S.

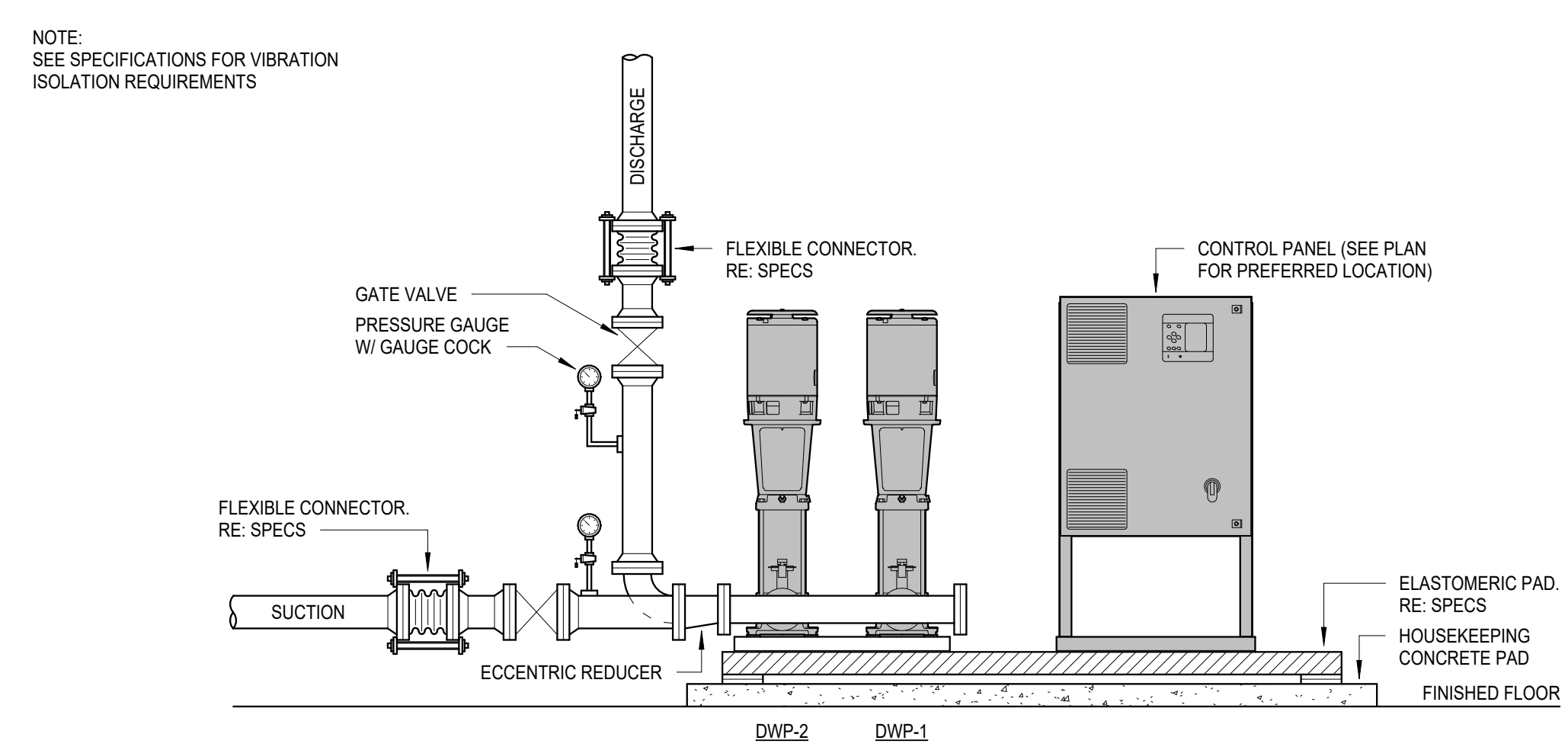
NOTE:
 ELECTRICAL SWITCH FOR PUMP ON/OFF SHALL BE LOCATED NEXT TO DISCHARGE AND SHUTOFF VALVE, RE. ELEC. DRWGS.



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



2 FIRE PUMP
 SCALE: N.T.S.



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

NOTE:
 SEE SPECIFICATIONS FOR VIBRATION ISOLATION REQUIREMENTS

GROUP DEVICES

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 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

- 1. WHEN A FIRE ALARM CONDITION IS DETECTED BY ANY OF THE SYSTEM ALARM INITIATING DEVICES THE CONTROL PANEL MUST RESPOND WITHIN 3 SECONDS, THE FOLLOWING FUNCTIONS OCCUR: A. THE SYSTEM COMMON ALARM LED ON THE CPU MODULE SHALL FLASH... B. AN BACK-LIT LCD DISPLAY SHALL INDICATE ALL APPLICABLE INFORMATION ASSOCIATED WITH THE ALARM CONDITION INCLUDING: ZONE, DEVICE TYPE, DEVICE LOCATION AND TIME OF ALARM... C. ANY REMOTE OR LOCAL ANNUNCIATOR LED'S ASSOCIATED WITH THE ALARM ZONE SHALL BE ILLUMINATED AS HEREIN SPECIFIED... D. A THREE CHANNEL DIGITAL ALARM COMMUNICATOR SHALL BE INTEGRALLY PROVIDED AND TRANSMIT TROUBLE AND ALARM SIGNALS TO AN APPROVED REMOTE STATION... E. WHEN THE ALARMED DEVICE IS RESTORED TO NORMAL... F. AN ALARM SHALL BE SILENCED BY A CODE OR FIREFIGHTER KEY... G. ALL AUTOMATIC EVENTS PROGRAMMED TO THE ALARM POINT SHALL BE EXECUTED... H. ACTIVATE ALL AUDIBLE/VISUAL ALARM DEVICES. I. DE-ACTIVATE HVAC SYSTEMS OVER 2000 CFM IN AREA OF ALARM. J. DISPLAY SYSTEM STATUS CHANGES ON THE REMOTE ANNUNCIATOR(S). K. RELEASE ALL SMOKE DOOR, FIRE DOORS, FIRE COILING DOORS, FIRE SMOKE DAMPERS AND FIRE SHUTTERS.

GENERAL FIRE ALARM NOTES

- 1. ALL 120V POWER REQUIRED FOR THE FUNCTIONALITY OF THE FIRE ALARM SYSTEMS SHALL BE A DEDICATED CIRCUIT AND ON EMERGENCY POWER WHEN AVAILABLE... 2. THE PROJECT'S ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL IN WALL CONDUITS, BELOW GRADE CONDUITS, BELOW SLAB CONDUITS, CONDUITS ACROSS OPEN AREAS, BACK BOXES, SLEEVES AND PULL STRING REQUIRED FOR DEVICES AND PATHWAYS SHOWN ON THE FLOOR PLANS AND DETAIL SHEETS... 3. FIRE ALARM VISUAL DEVICES SHALL COMPLY WITH NFPA 72, CHAPTER 4... 4. VISUAL APPLIANCES CANDELA SHALL BE THE HIGHEST VOLTAGE ALLOWED BY NFPA... 5. AT A MINIMUM, VISUAL SIGNALS APPLIANCES SHALL BE PROVIDED IN BUILDINGS AND FACILITIES IN EACH OF THE FOLLOWING AREAS: HALLWAYS, LOBBIES, AND ANY OTHER GENERAL USAGE AREAS... 6. ALL EQUIPMENT AND WORK PERFORMED SHALL COMPLY WITH ALL OF THE CURRENT AND APPLICABLE CODES, RULES, ORDINANCES, REGULATIONS, AND STANDARDS AS INTERPRETED AND ENFORCED BY THE AUTHORITIES HAVING JURISDICTION... 7. PROVIDE POWER FOR REMOTE BATTERY SUPPLIES AND BOOSTER PANELS AS NEEDED... 8. ALL FIRE ALARM WIRING SHALL ROUTE DOWN CORRIDORS AND WALKWAYS PARALLEL AND PERPENDICULAR TO BUILDING WALLS... 9. ALL FIRE ALARM CABLEING SHALL BE SUPPORTED IN DEDICATED CABLE SUPPORTS... 10. CONTRACTOR TO INSTALL RELAYS IN ALL KITCHEN HOOD ANSUL SYSTEMS TO NOTIFY MAIN FIRE ALARM PANEL UPON ACTIVATION... 11. ALL NOTIFICATION APPLIANCE CIRCUIT CABLES AND ALL OTHER FIRE ALARM SYSTEM CABLE SHALL HAVE A RED OUTER JACKET... 12. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ANY CONDUITS AND/OR BOXES REQUIRED FOR THE INSTALLATION FIRE ALARM DEVICES... 13. PROVIDE AND INSTALL PROTECTIVE BUSHINGS ON ALL STUB-OUTS AND SLEEVES TO PREVENT CABLE DAMAGE... 14. PROVIDE AND INSTALL STOPPER IF PROTECTIVE COVERS WITH A LOCAL ALARM FOR ALL MANUAL PULL STATIONS ON THE ENTIRE PROJECT... 15. CONTRACTOR TO PROVIDE CEILING MOUNTED LED NOTIFICATION DEVICES WITH TEST BUTTON FOR ALL DUCT DETECTORS THAT ARE MOUNTED ABOVE CEILING AND/OR IN LOCATIONS NOT VISIBLE FROM THE FLOOR... 16. ALL FIRE ALARM DEVICES ARE NEW UNLESS NOTED OTHERWISE... 17. CONTRACTOR SHALL PROVIDE AND INSTALL A RELAY FOR EACH FIRE/SMOKE DAMPER ON PROJECT... 18. CONTRACTOR SHALL PROVIDE DUCT DETECTORS ON ALL AIR HANDLING UNITS RATED ABOVE 2,000 CFM AND PER NFPA... 19. CONTRACTOR SHALL PROVIDE ALL CABLING AND DEVICES REQUIRED TO PROVIDE THE SHUT-DOWN OF ALL HVAC AIR HANDLING UNITS UPON THE FIRE ALARM SYSTEM ENTERING ALARM STATE... 20. CONTRACTOR SHALL PROVIDE ALL REQUISITE FIRE ALARM MODULES AND CABLING AS REQUIRED TO PROVIDE CONTROL OF THEATER/AUDITORIUM HOUSE LIGHTS... 21. PROVIDE MOUNTING SUPPORT FROM GRID OR BUILDING STRUCTURE FOR ALL DEVICES INSTALLED IN LAY-IN CEILING TILE... 22. ALL 120V POWER FOR THE SYSTEMS SHALL BE INSTALLED WITHIN THE ENCLOSURE OR INSTALLED IN CONDUIT CONNECTED TO THE ENCLOSURE SO THAT NO CABLING IS EXPOSED... 23. CONTRACTOR SHALL PROVIDE SMOKE DETECTION DEVICES ABOVE ALL PARTIAL CEILING IN ALL CORRIDORS AND OTHER SPACES PER NFPA 72.

AUDIO & VIDEO GENERAL NOTES

- 1. ALL 120V POWER REQUIRED FOR THE FUNCTIONALITY OF EACH SYSTEM SHALL BE A DEDICATED CIRCUIT... 2. THE PROJECT'S ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL IN WALL CONDUITS, BELOW GRADE CONDUITS, BELOW SLAB CONDUITS, CONDUITS ACROSS OPEN AREAS, BACK BOXES, SLEEVES AND PULL STRING REQUIRED FOR DEVICES AND PATHWAYS SHOWN ON THE FLOOR PLANS AND DETAIL SHEETS... 3. ALL EXPOSED WIRING OR WIRING ROUTING ACROSS NON ACCESSIBLE CEILING SHALL BE Routed IN CONDUIT... 4. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING ALL EXTERIOR WALL PENETRATIONS ARE PROPERLY SEALED... 5. NO CONDUITS OR SEAL-TITE SHALL BE INSTALLED ON THE EXTERIOR OF THE BUILDING... 6. ALL CONDUIT STUB OUTS AND SLEEVES SHALL HAVE PROTECTIVE BUSHINGS TO PREVENT CABLE DAMAGE... 7. ALL CABLE SHALL BE Routed DOWN CORRIDORS, PARALLEL AND PERPENDICULAR TO THE BUILDING WALLS... 8. THE SYSTEM INSTALLER SHALL PROPERLY SUPPORT ALL INSTALLED SYSTEM CABLING FROM A PANDUIT J-MOD CABLE SUPPORT SYSTEM... 9. ALL EXTERIOR AND WALL MOUNTED SPEAKERS SHALL BE MOUNTED AT 10'-0" UNLESS OTHERWISE NOTED... 10. EXTERIOR SPEAKERS SHALL BE ON A SEPARATE LOW VOLTAGE CIRCUIT FROM INTERIOR SPEAKERS... 11. AV CONTRACTOR SHALL COORDINATE ALL MOUNTING LOCATIONS OF ALL AV DEVICES TO PROVIDE EVEN AND BALANCED AUDIO COVERAGE... 12. ALL LAY-IN CEILING MOUNTED SPEAKERS AND DEVICES SHALL BE INSTALLED UTILIZING A TILE BRIDGE SUPPORT SYSTEM... 13. AV CONTRACTOR TO COORDINATE WITH ELECTRICAL CONTRACTOR FOR ALL CONDUIT AND BACK BOX REQUIREMENTS... 14. AV CONTRACTOR TO COORDINATE WITH ALL OTHER TRADES WITH REGARD TO BLOCKING AND PROPER SUPPORT OF ALL AV DEVICES... 15. PROVIDE MOUNTING SUPPORT FROM GRID OR BUILDING STRUCTURE FOR ALL DEVICES INSTALLED IN LAY-IN CEILING TILE.

SECURITY SYSTEMS LEGEND

SECURITY SYSTEMS LEGEND table with columns for SYMBOL and DESCRIPTION. Includes items like INTERIOR VIDEO SURVEILLANCE CAMERA, EXTERIOR WALL MOUNTED CAMERA VIDEO SURVEILLANCE CAMERA, WALL MOUNTED MOTION DETECTOR, 360 DEGREE CEILING MOUNTED MOTION DETECTOR, INTRUSION DETECTION SYSTEM ARMI/DSARM KEYPAD, PANIC BUTTON, INTRUSION DETECTION CONTROL PANELS, ACCESS CONTROL PROXIMITY CARD READER, DOOR RELEASE BUTTON, DOOR CONTACT, CEILING MOUNTED GLASS BREAK DETECTOR, WALL MOUNTED GLASS BREAK DETECTOR.

- 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.

BDA/DAS SYSTEMS LEGEND

BDA/DAS SYSTEMS LEGEND table with columns for SYMBOL and DESCRIPTION. Includes items like BI-DIRECTIONAL AMPLIFIER (BDA) SIGNAL BOOSTER, BDA ANNUNCIATOR PANEL.

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

TECHNOLOGY PLAN GENERAL NOTES

- 1. ALL 120V POWER REQUIRED FOR THE FUNCTIONALITY OF THE TELECOMMUNICATION NETWORK, AUDIO/VIDEO, SECURITY AND FIRE ALARM EQUIPMENT SHALL BE A DEDICATED CIRCUIT AND ON EMERGENCY POWER WHERE POSSIBLE... 2. CONTRACTOR SHALL COORDINATE WITH THE TECHNOLOGY CONSULTANT PRIOR TO THE INSTALLATION OF RACKS AND RACK EQUIPMENT... 3. THE PROJECT'S ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL IN WALL CONDUITS, BELOW GRADE CONDUITS, BELOW SLAB CONDUITS, CONDUITS ACROSS OPEN AREAS, BACK BOXES, SLEEVES AND PULL STRING REQUIRED FOR DEVICES AND PATHWAYS SHOWN ON THE FLOOR PLANS AND DETAIL SHEETS... 4. THE SELECTED, INSTALLING CONTRACTOR MUST BE A CERTIFIED INTEGRATOR/INSTALLER AUTHORIZED BY THE SPECIFIED SYSTEM MANUFACTURER... 5. SYSTEM WIRING AND EQUIPMENT INSTALLATION SHALL BE IN ACCORDANCE WITH ENGINEERING BEST PRACTICES AS ESTABLISHED BY ANSIE/ETIA, BICSI, AND THE NEC... 6. ALL WIRING SHALL MEET ALL STATE AND LOCAL ELECTRICAL CODES... 7. ALL TELECOMMUNICATIONS SYSTEMS EQUIPMENT AND MOUNTING LOCATIONS SHALL BE IN COMPLIANCE WITH ADA ACCESSIBILITY STANDARDS... 8. ALL DATA CABLES ARE TO BE INSTALLED WITH A MINIMUM OF 12 INCHES OF SEPARATION FROM ALL POWER CABLES AND ALL OTHER LOW VOLTAGE CABLING... 9. ALWAYS CROSS OTHER SYSTEM CABLES AT A 90 DEGREE ANGLE... 10. ALL CABLES AND TERMINATION COMPONENTS SHALL BE MACHINE LABELED AT BOTH ENDS... 11. CONTRACTOR TO PROVIDE LIGHTNING PROTECTION ON ALL COMMUNICATION CABLE BETWEEN BUILDINGS AND EXTERIOR MOUNTED DEVICES... 12. ALL EXPOSED CABLING ROUTED IN PLENUM SHALL BE PLENUM-RATED... 13. NO TERMINATION OR SPLICES SHALL BE INSTALLED IN OR ABOVE CEILING UNLESS NOTED OTHERWISE... 14. CONTRACTOR SHALL MAINTAIN WALL RATING WITH PROPER FIRE BLOCKING METHODS... 15. CONTRACTOR SHALL ROUTE ALL LOW VOLTAGE CABLING DOWN CORRIDORS AND PERPENDICULAR OR PARALLEL TO BUILDING WALLS... 16. ALL COMMUNICATION CABLE INSTALLED SHALL ROUTE TO THE CENTER OF THE ROOM IN WHICH IT SERVES... 17. THE SYSTEM INSTALLER SHALL PROPERLY SUPPORT ALL INSTALLED SYSTEM CABLING FROM A PANDUIT J-MOD CABLE SUPPORT SYSTEM... 18. CONTRACTOR SHALL PROVIDE TWO (2) DATA CABLES ROUTED TO THE FIRE ALARM CONTROL PANEL... 19. ALL EXPOSED CABLING OR CABLING ROUTING ACROSS NON-ACCESSIBLE CEILING SHALL BE INSTALLED IN CONDUIT... 20. 2" WALL CONDUIT STUB OUTS AND SLEEVES SHALL HAVE PROTECTIVE BUSHINGS TO PREVENT CABLE DAMAGE... 21. CONTRACTOR SHALL PROVIDE TWO (2) DATA CABLES TO THE ACCESS CONTROL HEAD-END... 22. CONTRACTOR TO PROVIDE TWO (2) DATA CABLES TO THE BUILDING AUTOMATION SYSTEM AT EACH BUS STATION... 23. CONTRACTOR TO PROVIDE TWO (2) DATA CABLES TO THE AREA OF REFUGE SYSTEM... 24. CONTRACTOR SHALL PROVIDE (1) DATA CABLE FOR EACH IP CAMERA AND IP SPEAKER ROUTED TO NEAREST IDF... 25. CONTRACTOR SHALL PROVIDE (2) DATA CABLES ROUTED TO THE ELEVATOR FOR THE FIRE-FIGHTER TELEPHONE... 26. CONTRACTOR SHALL PROVIDE (1) DATA CABLE TO THE INTRUSION DETECTION SYSTEM HEAD-END

SECURITY GENERAL NOTES

- 1. ALL 120V POWER REQUIRED FOR THE FUNCTIONALITY OF THE ACCESS CONTROL, BURGLAR ALARM, AND SECURITY CAMERA SYSTEMS SHALL BE A DEDICATED CIRCUIT AND ON EMERGENCY POWER WHEN AVAILABLE... 2. A DOOR CONTACT POSITION SENSOR IS REQUIRED AT ALL ROOF HATCHES (TYPICAL)... 3. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY CONDUIT, SLEEVES, AND PROTECTIVE BUSHINGS REQUIRED TO INSTALL COMPLETE SECURITY SYSTEM... 4. SECURITY CONTRACTOR IS RESPONSIBLE FOR CONNECTING SYSTEM TO DISTRICT'S REMOTE MONITORING SERVICE... 5. ALL EXPOSED SECURITY SYSTEMS WIRING OR WIRING ROUTING ACROSS NON ACCESSIBLE CEILING SHALL BE Routed IN CONDUIT... 6. PROVIDE PROTECTIVE COVER FOR ALL DEVICES IN GYMNASIUM AREAS... 7. ENSURE ALL EXTERIOR WALL PENETRATIONS ARE PROPERLY SEALED... 8. NO CONDUITS OR SEAL-TITE SHALL BE INSTALLED ON THE EXTERIOR OF THE BUILDING... 9. ALL LOW VOLTAGE CABLING SHALL BE INDIVIDUALLY ROUTED TO HEAD END POINT AND SUPPORTED IN PROPER CABLE SUPPORT SYSTEM... 10. ALL EXTERIOR CAMERAS SHALL BE MOUNTED 12' ABOVE FINISHED GRADE UNLESS OTHERWISE INDICATE... 11. ALL CONDUIT STUB OUTS AND SLEEVES SHALL HAVE PROTECTIVE BUSHINGS TO PREVENT CABLE DAMAGE... 12. CONTRACTOR SHALL CONNECT FREEZER/COOLER SENSORS TO INTRUSION DETECTION HEAD-END FOR EVENT DETECTION... 13. CONTRACTOR SHALL PROVIDE ALL VIDEO SURVEILLANCE CAMERA MOUNTS AND MOUNTING HARDWARE... 14. CONTRACTOR SHALL INTEGRATE THE INTRUSION DETECTION SYSTEM WITH THE ACCESS CONTROL SYSTEM... 15. CONTRACTOR SHALL INTEGRATE THE ACCESS CONTROL, INTRUSION DETECTION AND VIDEO SURVEILLANCE SYSTEMS... 16. PROVIDE MOUNTING SUPPORT FROM GRID OR BUILDING STRUCTURE FOR ALL DEVICES INSTALLED IN LAY-IN CEILING TILE... 17. ALL 120V POWER FOR THE SYSTEMS SHALL BE INSTALLED WITHIN THE ENCLOSURE OR INSTALLED IN CONDUIT CONNECTED TO THE ENCLOSURE SO THAT NO CABLING IS EXPOSED.

TECHNOLOGY LEGEND

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 KRONOS CLOCK, INDICATES THE LOCATION OF MICROPHONE INPUT, INDICATES THE LOCATION OF VIDEO PROJECTOR, INDICATES THE LOCATION OF SCOREBOARD CONTROL INTERFACE PLATE, INDICATES THE LOCATION OF A SCOREBOARD, INDICATES THE LOCATION OF AN IP SECURITY CAMERA, INDICATES INTERCOM SPEAKER, INDICATES WALL MOUNTED LOCK, INDICATES THE APPROXIMATE LOCATION OF A CEILING ENCLOSURE, INDICATES WALL MOUNTED LOCAL SOUND SPEAKER, INDICATES CEILING MOUNTED MICROPHONE, 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.



ARCHITECT table listing project details: SAN ANTONIO, 601 N.W. Loop 410, Suite 400, San Antonio, TX 78216. Includes contact information for PBK Architects, Inc.



INDICATES THE LOCATION OF A VIDEO PROJECTOR. 'W' INDICATES WALL MOUNT. 'C' INDICATES CEILING MOUNT. COORDINATE EXACT HEIGHT WITH ARCHITECT PRIOR TO ROUGH-IN.

INDICATES THE LOCATION OF A SCOREBOARD CONTROL INTERFACE PLATE. INSTALL 1 GANG BOX AT 18" A.F.F. WITH (1) 1" CONDUIT CONNECTED TO BOTH BOXES.

INDICATES THE LOCATION OF A SCOREBOARD. INSTALL SINGLE GANG BOX AT APPROXIMATELY 12" A.F.F. WITH (1) 1" CONDUIT CONNECTED TO THE ASSOCIATED 'SB1' BOX.

INDICATES THE LOCATION OF AN IP SECURITY CAMERA. FOR WALL MOUNT AND EXTERIOR CAMERAS, ELECTRICAL CONTRACTOR SHALL PROVIDE A SINGLE GANG BOX, FLUSH MOUNT AT 12" A.F.F. WITH 1" CONDUIT STUBBED OUT ABOVE NEAREST ACCESSIBLE CEILING.

INDICATES THE LOCATION OF AN IP SECURITY CAMERA. FOR WALL MOUNT AND EXTERIOR CAMERAS, ELECTRICAL CONTRACTOR SHALL PROVIDE (1) DATA CABLE FOR EACH IP CAMERA AND IP SPEAKER ROUTED TO NEAREST IDF.

INDICATES INTERCOM SPEAKER, FLUSH MOUNTED IN CEILING. VERIFY WITH INTERCOM CONTRACTOR WHETHER SPEAKERS ARE IP SPEAKERS. IF SO, PROVIDE (1) DATA CABLE ROUTED TO NEAREST IDF EXCEPT AS NOTED.

INDICATES WALL MOUNTED LOCK. VERIFY WITH INTERCOM CONTRACTOR WHETHER SPEAKERS ARE IP SPEAKERS. IF SO, PROVIDE (1) DATA CABLE ROUTED TO NEAREST IDF EXCEPT AS NOTED.

INDICATES THE APPROXIMATE LOCATION OF A CEILING ENCLOSURE. REFER TO SPECIFICATIONS FOR THE ENCLOSURE MODEL NUMBER AND DEVICES TO BE HOUSED INSIDE THE ENCLOSURE.

INDICATES WALL MOUNTED LOCAL SOUND SPEAKER. PROVIDE A 2 GANG DEEP BOX WITH 1 GANG REDUCER RING @ 12" AFF WITH (1) 3/4" CONDUIT ROUTED AND CONNECTED TO THE ASSOCIATED LOCAL SOUND RACK.

INDICATES CEILING MOUNTED MICROPHONE. PROVIDE A 2 GANG DEEP BOX WITH 1 GANG REDUCER RING FLUSH IN CEILING WITH (1) 3/4" CONDUIT ROUTED AND CONNECTED TO THE ASSOCIATED LOCAL SOUND RACK.

INDICATES CEILING MOUNTED LOCAL SOUND SPEAKER. PROVIDE A 2 GANG DEEP BOX WITH 1 GANG REDUCER RING INSTALLED @ 12" ABOVE CEILING WITH (1) 3/4" CONDUIT ROUTED AND CONNECTED TO THE ASSOCIATED LOCAL SOUND RACK.

INDICATES CEILING MOUNTED LOCAL SOUND SUBWOOFER SPEAKER. PROVIDE A 2 GANG DEEP BOX WITH 1 GANG REDUCER RING INSTALLED @ 12" ABOVE CEILING WITH (1) 3/4" CONDUIT ROUTED AND CONNECTED TO THE ASSOCIATED LOCAL SOUND RACK.

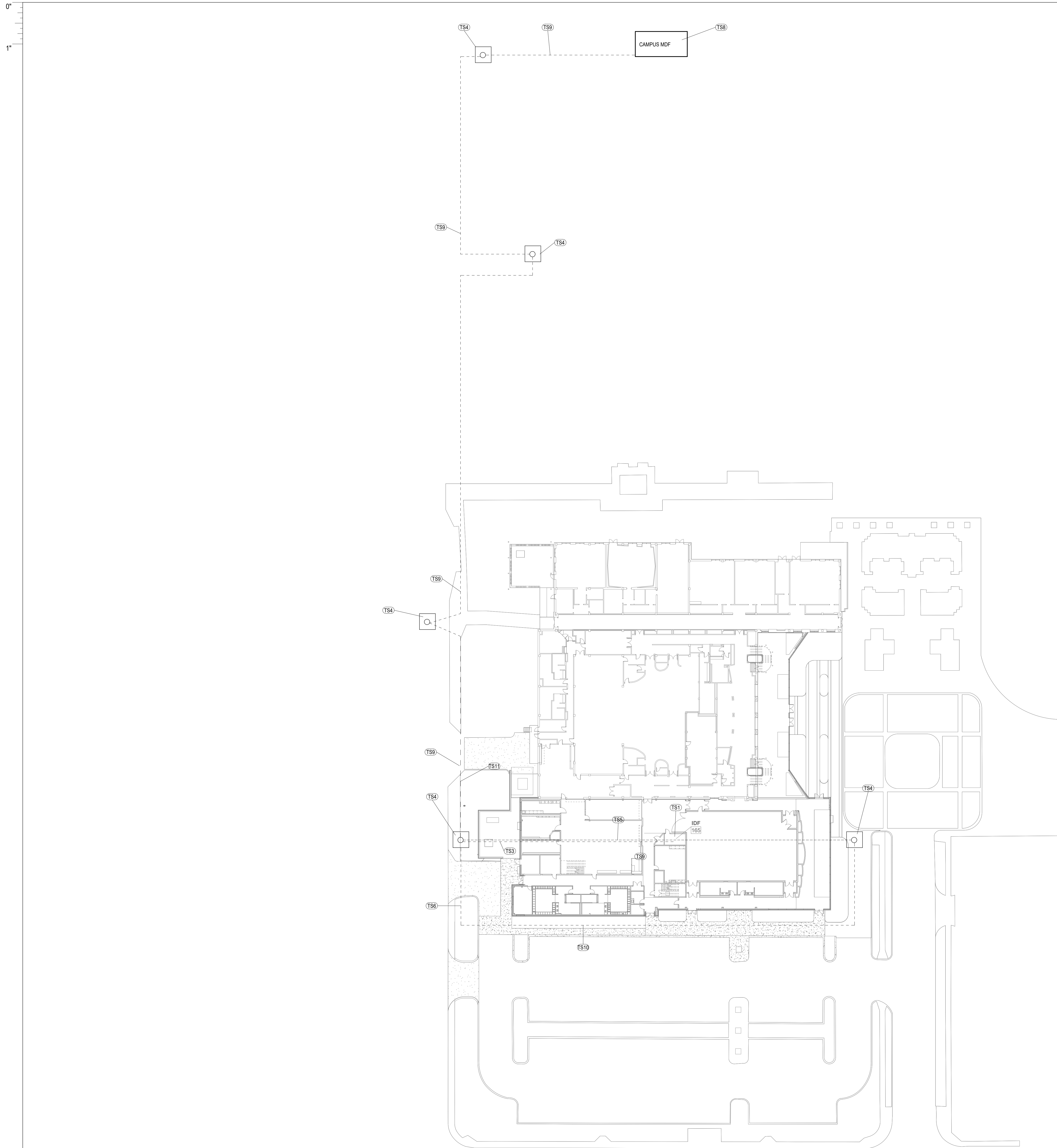
CLIENT: Alamo Colleges. DATE: 2024/05/10. PROJECT NUMBER: 230462.

ISSUE FOR PERMIT

Table with columns: No., Description, Date. Includes drawing history and permit information.

TECHNOLOGY SYSTEM NOTES AND LEGENDS

ISSUE FOR PERMIT



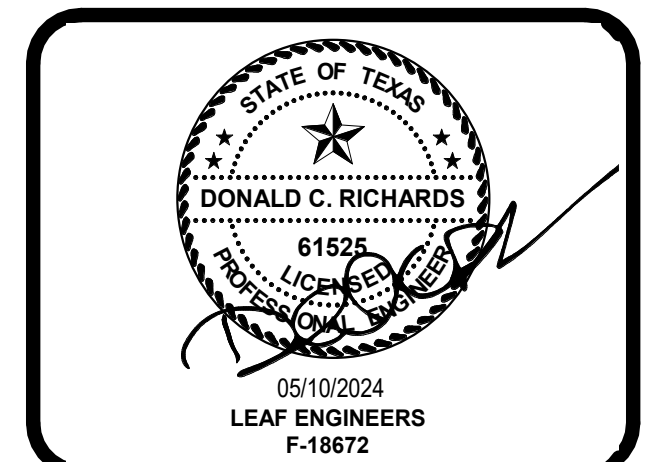
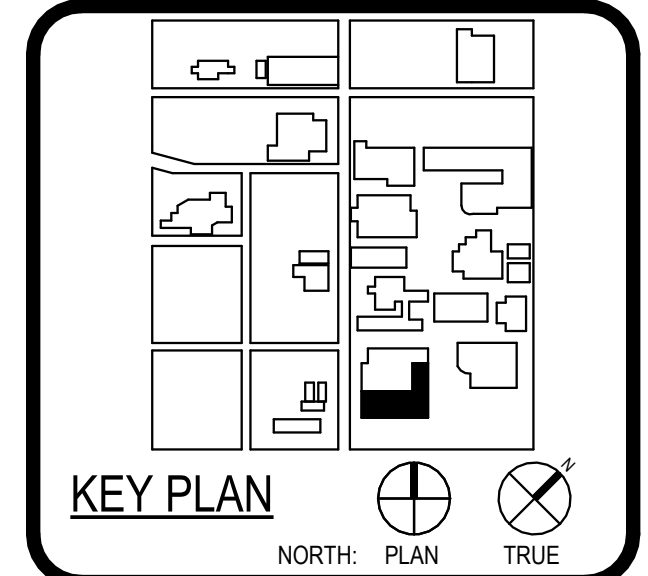
- ### TECHNOLOGY KEYNOTES
- TS1 INDICATES THE APPROXIMATE LOCATION OF THE NEW BUILDING IDF. CONDUITS SHALL BE STUB EVENTLY AT +8 A.F.F TO ENTER THE NEW MDF/IDF
 - TS3 CONTRACTOR TO INSTALL TWO (2) FOUR INCH (4") CONDUIT WITH A PULLING LINE FROM THIS MANHOLE ALL THE WAY TO THE NEW IDF ROUTED AT 4 B.F.G. 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 CONTRACTOR SHALL PULL BACK EXISTING FIBER FROM THE EXISTING MANHOLE ALL THE WAY BACK TO THE PREVIOUS BOX. FIBER TO BE RE-USED IF POSSIBLE. CONTRACTOR WILL RE-ROUTE THE EXISTING FIBER AND FUSE SPLICED AT THE SAME BOX IT WAS PULLED FROM THE BEGINNING JUST FROM A DIFFERENT PATHWAY. CONTRACTOR SHALL PAY FOR ANY DAMAGE TO EXISTING FIBER.
 - TS5 INDICATES THE APPROXIMATE LOCATION OF AN EXISTING CONDUIT PATHWAY TO BE REMOVED CONTRACTOR SHALL PULL BACK EXISTING FIBER FROM THE EXISTING MANHOLE ALL THE WAY BACK TO THE PREVIOUS BOX. FIBER TO BE RE-USED IF POSSIBLE. CONTRACTOR WILL RE-ROUTE THE EXISTING FIBER AND FUSE SPLICED AT THE SAME BOX IT WAS PULLED FROM THE BEGINNING JUST FROM A DIFFERENT PATHWAY. CONTRACTOR SHALL PAY FOR ANY DAMAGE TO EXISTING FIBER.
 - TS6 INDICATES THE APPROXIMATE LOCATION FOR THE NEW PATHWAY FOR THE EXISTING FIBER TO BE RE-ROUTED TO MAINTAIN THE SERVICE UP AND RUNNING. CONTRACTOR TO FIELD VERIFY THE AMOUNT OF CONDUIT NEEDED FOR THIS NEW ROUTE TO WORK AS THE PREVIOUS.
 - 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.



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 1608
ARCHITECT	BA & ARCHITECTS 200 CELESTER 1717-1800 LANDSCAPE 200 LUNY & FRANK ENGINEERING 1717-1800 ME 1717-1800 LUNY & FRANK ENGINEERING 1717-1800 ME 1717-1800 MECHANICAL PROFESSIONALS 1717-1800 MECHANICAL 1717-1800



WFAC Black Box Addition PKG 1



CLIENT	Alamo Colleges	
DATE	2024/05/10	
PROJECT NUMBER	230462	
DRAWING HISTORY		
No.	Description	Date

ISSUE FOR PERMIT
 BUILDING NUMBER

SITE TECHNOLOGY PLAN

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