

CONTROL POINTS				
POINT NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
CP #3	13667106.78'	2114751.17'	656.49'	MONUMENT
CP #22	13666719.17'	2114061.05'	645.44'	1/2" IRON ROD WITH RED BMB CONTROL CAP
CP #70	13668305.92'	2113106.45'	628.42'	1/2" IRON ROD WITH RED BMB CONTROL CAP

- EXISTING POWER POLE
- EXISTING GUY WIRE
- EXISTING WATER METER
- EXISTING GAS METER
- EXISTING POST
- EXISTING SANITARY SEWER MANHOLE

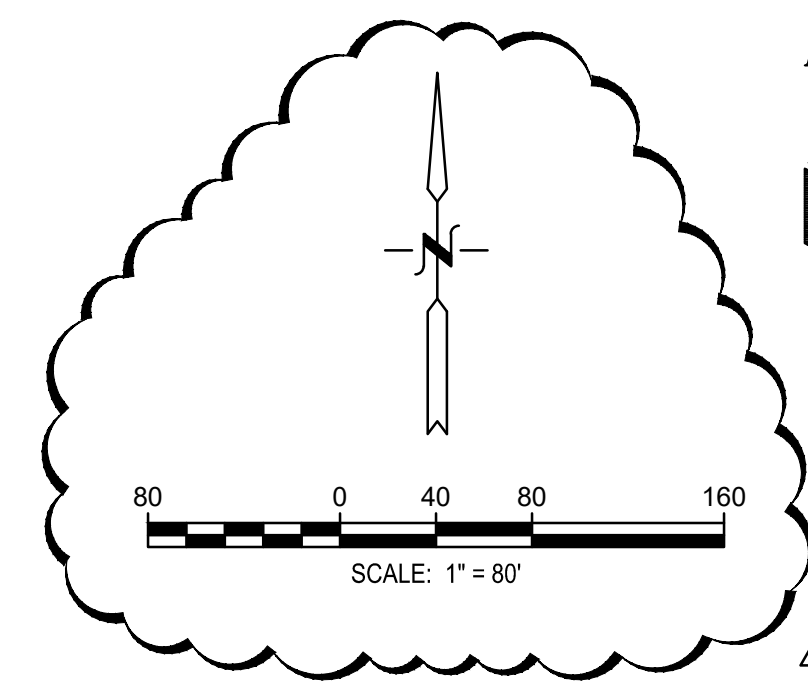
- EXISTING ELECTRIC PULLBOX
- EXISTING ELECTRIC JUNCTION BOX
- EXISTING FAUCET
- EXISTING SPRINKLER
- EXISTING MAILBOX
- EXISTING TREE

- EXISTING OVERHEAD ELECTRIC LINE
- EXISTING WATER LINE
- EXISTING 12" WATER LINE
- EXISTING STORM DRAIN
- EXISTING CHILLED WATER
- EXISTING UNDERGROUND TELEPHONE

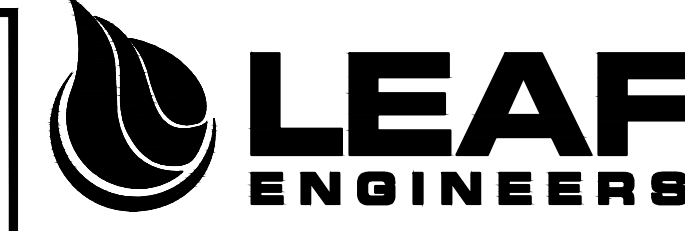
LEGEND

- EXISTING FIRE DEPARTMENT LINE
- EXISTING OVERHEAD HIGH VOLTAGE LINE
- EXISTING SANITARY SEWER LINE
- EXISTING GAS LINE
- EXISTING UNDERGROUND ELECTRIC LINE
- EXISTING CONTOURS

- EXISTING WOOD FENCE
- EXISTING CHAIN LINK FENCE
- EXISTING HIGH VOLTAGE TOWER
- EXISTING BUILDING
- EXISTING FLATWORK TO BE REMOVED



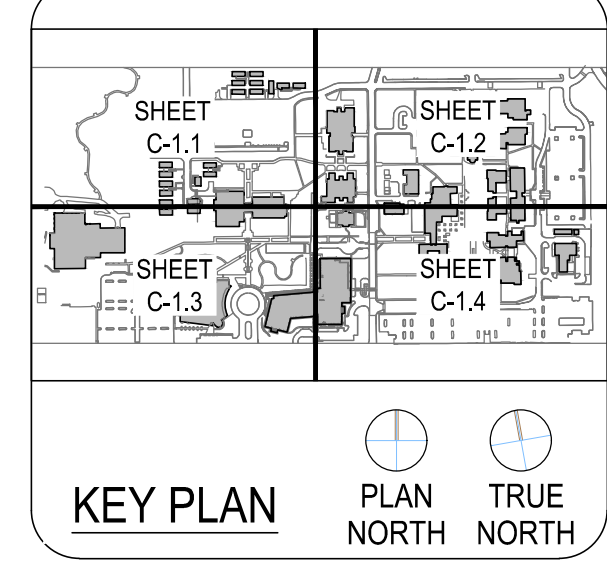
PREPARED BY:
BAIN MEDINA BAIN, INC.
 ENGINEERS & SURVEYORS
 7073 San Pedro Avenue
 San Antonio, Texas 78216
 210-494-7223
 TBPB Registration No. F-1712
 TBPIS Registration No. 10020900



MEPT	LEAF Engineers
OWNER	ALAMO COLLEGE DISTRICT 601 NW LOOP 410, Suite 450, San Antonio, TX 78216 210-438-7200 P 210-438-5716 F TX Firm: F-18672 leafengineers.com
ARCHITECT	PKB ARCHITECTS 601 NW LOOP 410, Suite 400 SAN ANTONIO, TEXAS 78216 210-438-3713 P 210-438-3714 F
CIVIL SURVEYOR	SAN MEDINA BAIN 7073 SAN PEDRO SAN ANTONIO, TEXAS 78216 210-494-7223 P 210-494-5125 F
LANDSCAPE	EDGE LAND GROUP 601 NW LOOP 410, Suite 400 SAN ANTONIO, TEXAS 78216 734-685-3989 P 734-681-4217 F



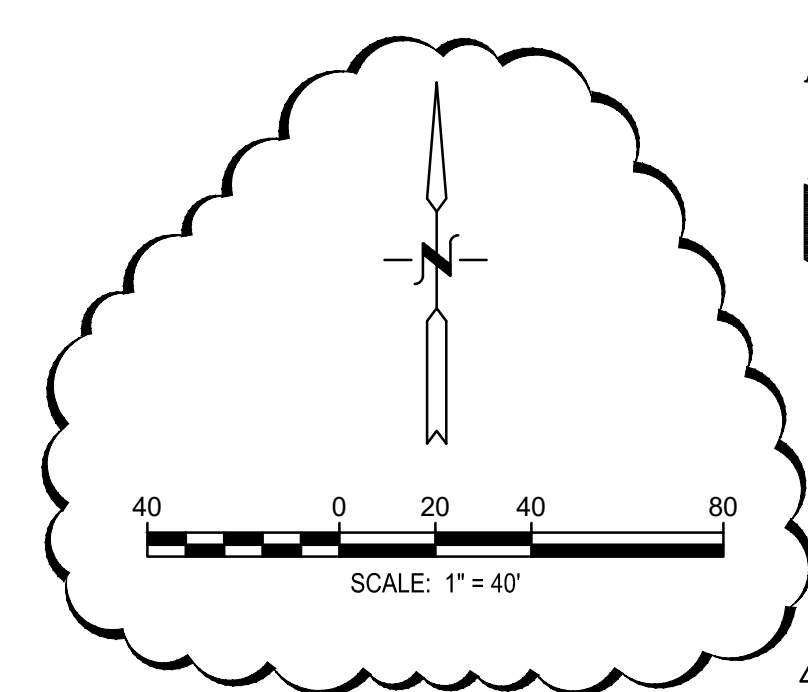
**ACD Palo Alto College
 Hydronic Piping Replacement**
 1400 West Villaret
 San Antonio, Texas, 78224
 ISSUE FOR CONSTRUCTION



No.	Description	Date
1	REVISE SCALE BAR	06/18/24

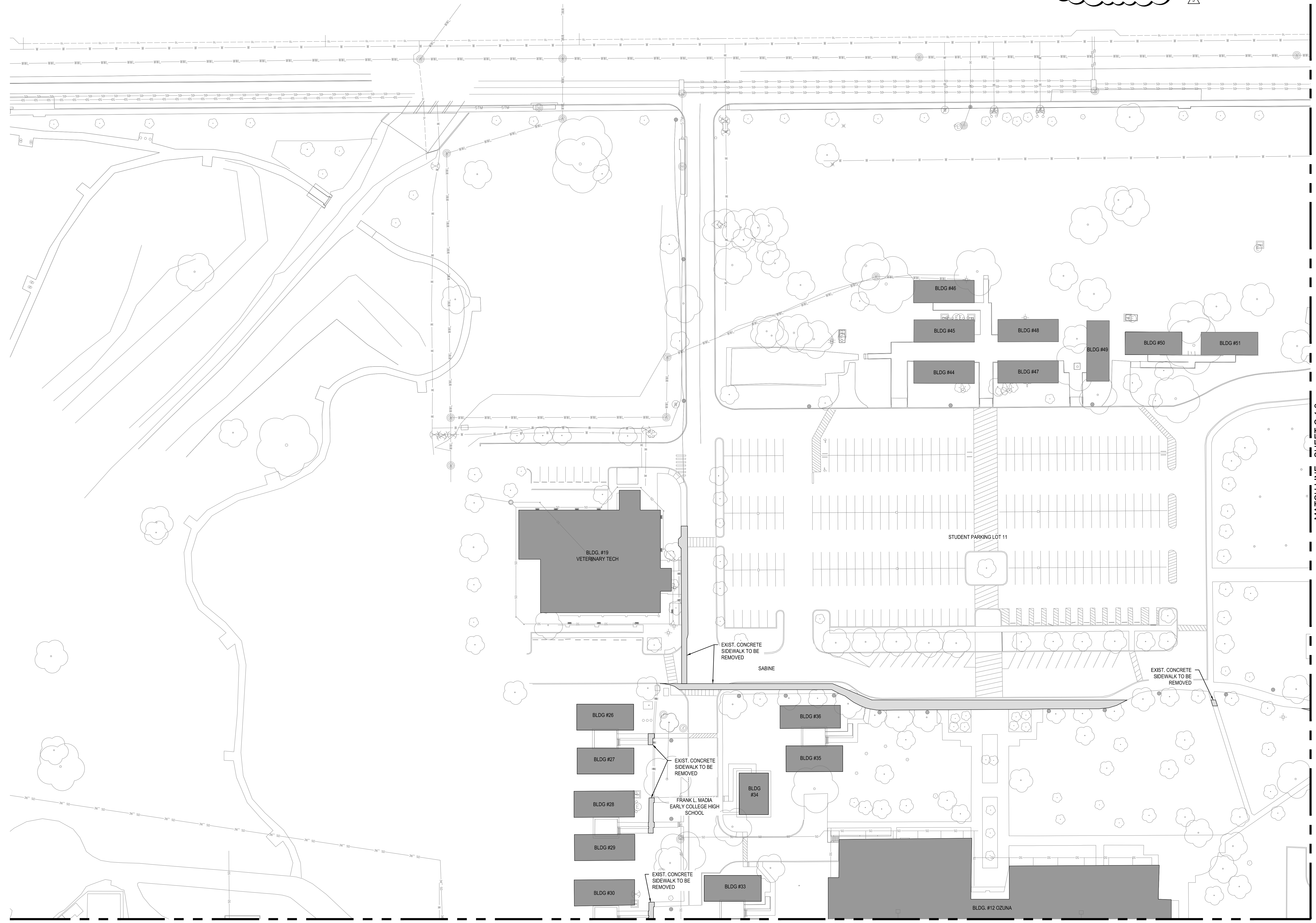
CLIENT
 ACD PALO ALTO COLLEGE
 PROJECT NUMBER
 C-1613
 DATE
 05/11/2023
 DRAWN BY
 M.L.
 CHECKED BY
 L.C.
 REVISIONS
 ISSUE FOR CONSTRUCTION
**OVERALL
 EXISTING SITE
 AND DEMOLITION
 PLAN**
C-1.0

Drawn by: M.L. Date: 05/11/2023
 Checked by: L.C. Date: 05/11/2023
 Project: 1400 West Villaret, San Antonio, Texas, 78224
 File: 1400 West Villaret, San Antonio, Texas, 78224
 User: M.L. Date: 05/11/2023
 Title: Overall Existing Site and Demolition Plan
 Scale: 1" = 80'
 Sheet: C-1.0 of C-1.0
 Project: 1400 West Villaret, San Antonio, Texas, 78224
 File: 1400 West Villaret, San Antonio, Texas, 78224
 User: M.L. Date: 05/11/2023
 Title: Overall Existing Site and Demolition Plan
 Scale: 1" = 80'
 Sheet: C-1.0 of C-1.0



LEGEND

- | | | | | | | | | | |
|---------------------------------|---|--------------------------------|---|---------------------------------|-----------|-------------------------------------|---------|---------------------------------|--------|
| EXISTING POWER POLE | ⊙ | EXISTING ELECTRIC PULLBOX | ⊠ | EXISTING OVERHEAD ELECTRIC LINE | — OHE — | EXISTING FIRE DEPARTMENT LINE | — FD — | EXISTING WOOD FENCE | — // — |
| EXISTING GUY WIRE | ↘ | EXISTING ELECTRIC JUNCTION BOX | ⊕ | EXISTING WATER LINE | — W — | EXISTING OVERHEAD HIGH VOLTAGE LINE | — HV — | EXISTING CHAIN LINK FENCE | — ○ — |
| EXISTING WATER METER | ⊕ | EXISTING FAUCET | ⊕ | EXISTING 12" WATER LINE | — 12" W — | EXISTING SANITARY SEWER LINE | — WWL — | EXISTING HIGH VOLTAGE TOWER | ⊠ |
| EXISTING GAS METER | ⊕ | EXISTING SPRINKLER | ⊕ | EXISTING STORM DRAIN | — SD — | EXISTING GAS LINE | — G — | EXISTING BUILDING | ▬ |
| EXISTING POST | ⊙ | EXISTING MAILBOX | ⊕ | EXISTING CHILLED WATER | — CW — | EXISTING UNDERGROUND ELECTRIC LINE | — UE — | EXISTING FLATWORK TO BE REMOVED | ▬ |
| EXISTING SANITARY SEWER MANHOLE | ⊕ | EXISTING TREE | ⊕ | EXISTING UNDERGROUND TELEPHONE | — UT — | EXISTING CONTOURS | — 960 — | | |

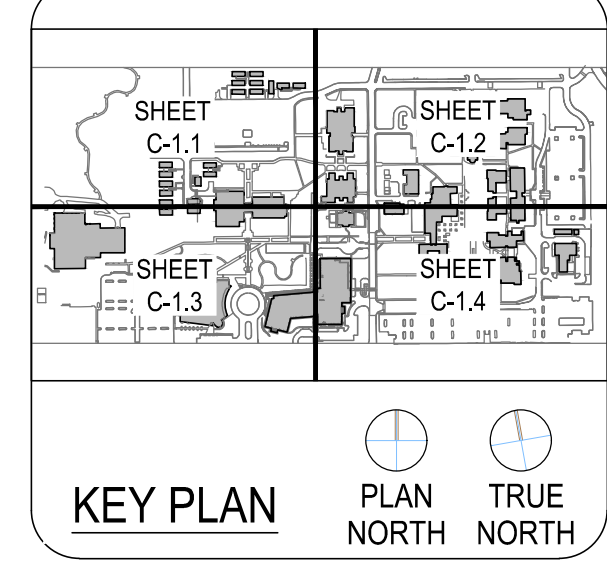


MATCH LINE - SHEET C-1.3

MATCH LINE - SHEET C-12

**ACD Palo Alto College
 Hydronic Piping Replacement**

1400 West Villaret
 San Antonio, Texas, 78224
ISSUE FOR CONSTRUCTION



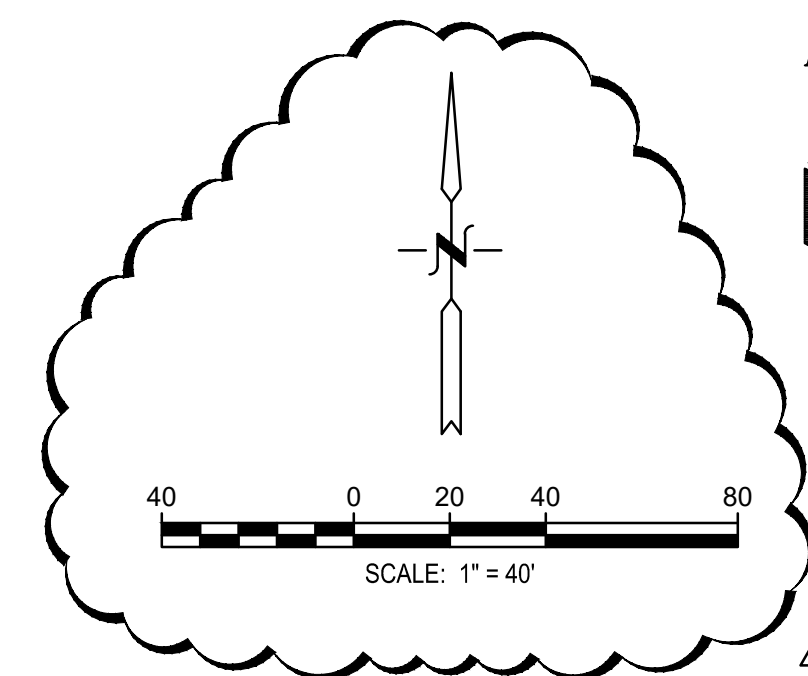
CLIENT ACD PALO ALTO COLLEGE		
PROJECT NUMBER C-1613		
DATE:	05/11/2023	
DRAWN BY:	M.L.	
CHECKED BY:	L.C.	
REVISIONS		
No.	Description	Date
1	REVISE SCALE BAR	06/18/24

ISSUE FOR CONSTRUCTION
EXISTING SITE AND DEMOLITION PLAN
SHEET 1

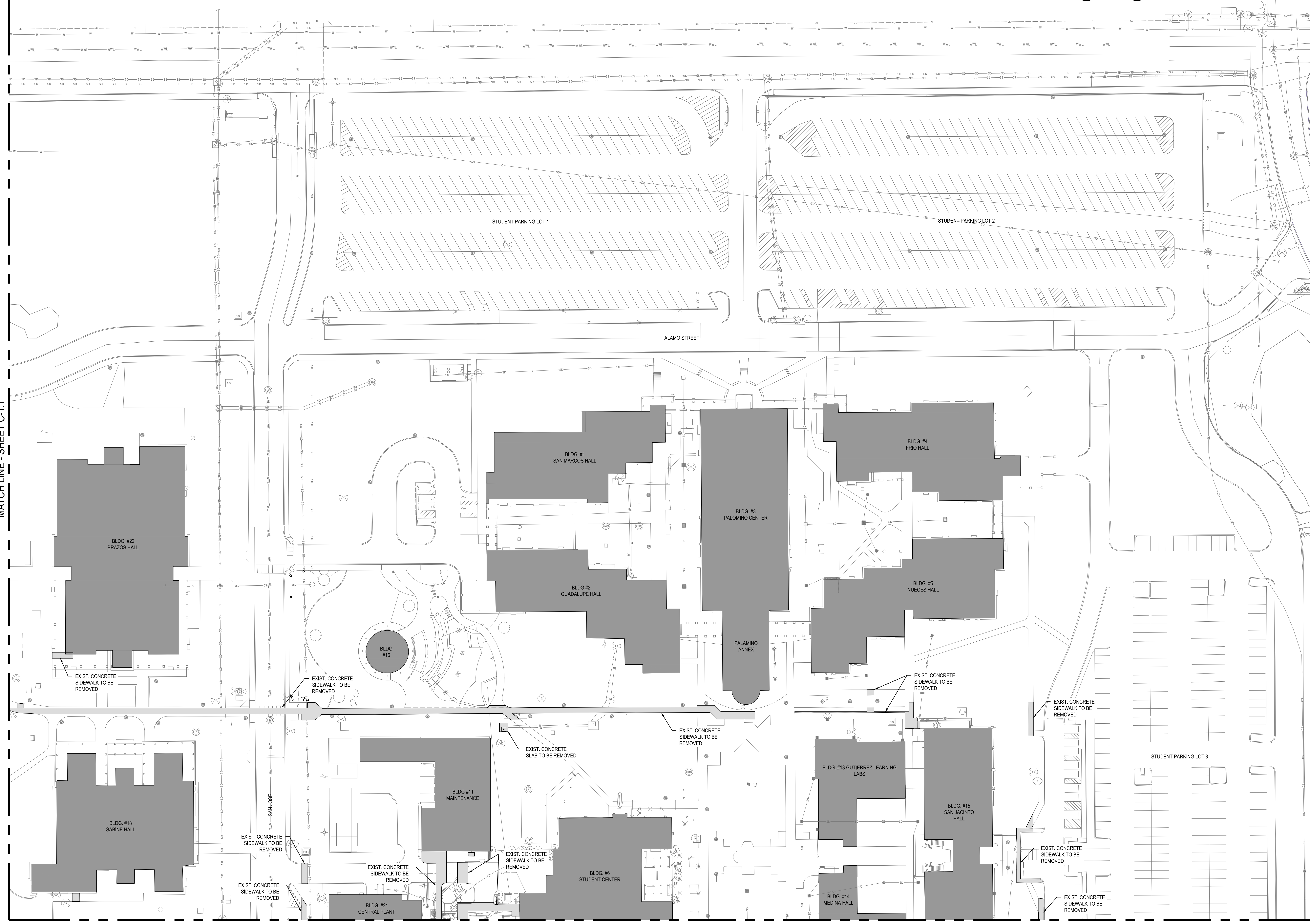
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Drawn by: M.L. Date: 05/11/2023
 Checked by: L.C. Date: 06/18/24
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 Project: 1400 West Villaret, San Antonio, Texas, 78224
 File: \\leaf\projects\1400 West Villaret\1400 West Villaret - Hydronic Piping Replacement - Existing Site and Demolition Plan.dwg
 User: M.L. Date: 05/11/2023

PREPARED BY:
BAIN MEDINA BAIN, INC.
ENGINEERS & SURVEYORS
 7073 San Pedro Avenue
 San Antonio, Texas 78216
 210.494-7223
 TBPE Registration No. F-1712
 TBPIS Registration No. 10020900



LEGEND			
EXISTING POWER POLE	⊙	EXISTING ELECTRIC PULLBOX	⊞
EXISTING GUY WIRE	—	EXISTING ELECTRIC JUNCTION BOX	⊞
EXISTING WATER METER	⊕	EXISTING FAUCET	⊕
EXISTING GAS METER	⊕	EXISTING SPRINKLER	⊕
EXISTING POST	○	EXISTING MAILBOX	⊞
EXISTING SANITARY SEWER MANHOLE	⊕	EXISTING TREE	⊞
EXISTING OVERHEAD ELECTRIC LINE	— OHE —	EXISTING WATER LINE	— W —
EXISTING FIRE DEPARTMENT LINE	— FD —	EXISTING 12" WATER LINE	— 12" W —
EXISTING OVERHEAD HIGH VOLTAGE LINE	— HV —	EXISTING 12" SANITARY SEWER LINE	— 12" S —
EXISTING CHAIN LINK FENCE	— ◇ —	EXISTING GAS LINE	— G —
EXISTING WOOD FENCE	— // —	EXISTING UNDERGROUND ELECTRIC LINE	— UE —
EXISTING HIGH VOLTAGE TOWER	⊞	EXISTING CHILLED WATER	— CW —
EXISTING BUILDING	■	EXISTING UNDERGROUND TELEPHONE	— UT —
EXISTING FLATWORK TO BE REMOVED	▨	EXISTING CONTOURS	— 960 —



MATCH LINE - SHEET C-1.1

MATCH LINE - SHEET C-1.4

MEPT	LEAF Engineers
OWNER	ALAMO COLLEGE DISTRICT 2222 NORTH ALAMO STREET SAN ANTONIO, TEXAS 78216 210.494.3000
ARCHITECT	PKM ARCHITECTS 601 NW LOOP 410, SUITE 400 SAN ANTONIO, TEXAS 78216 210.494.2921 P 210.494.0574 F
CIVIL SURVEYOR	BAIN MEDINA BAIN 7073 SAN PEDRO SAN ANTONIO, TEXAS 78216 210.494.7223 P 210.494.0574 F
LANDSCAPE	EOGLAND GROUP 601 NW LOOP 410, SUITE 400 SAN ANTONIO, TEXAS 78216 210.494.0989 P 210.494.0217 F

**ACD Palo Alto College
Hydronic Piping Replacement**

1400 West Villaret
San Antonio, Texas, 78224
ISSUE FOR CONSTRUCTION



KEY PLAN		PLAN NORTH	TRUE NORTH
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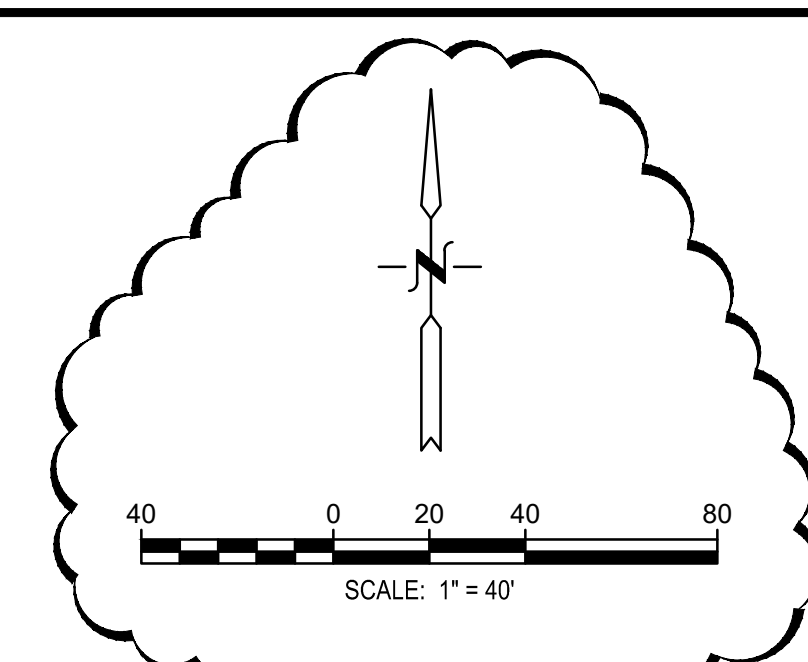


CLIENT	ACD PALO ALTO COLLEGE	
PROJECT NUMBER	C-1613	
DATE:	05/11/2023	
DRAWN BY:	M.L.	
CHECKED BY:	L.C.	
REVISIONS		
No.	Description	Date
1	REVISE SCALE BAR	06/18/24

ISSUE FOR CONSTRUCTION
**EXISTING SITE
 AND DEMOLITION
 PLAN
 SHEET 2**

C-1.2

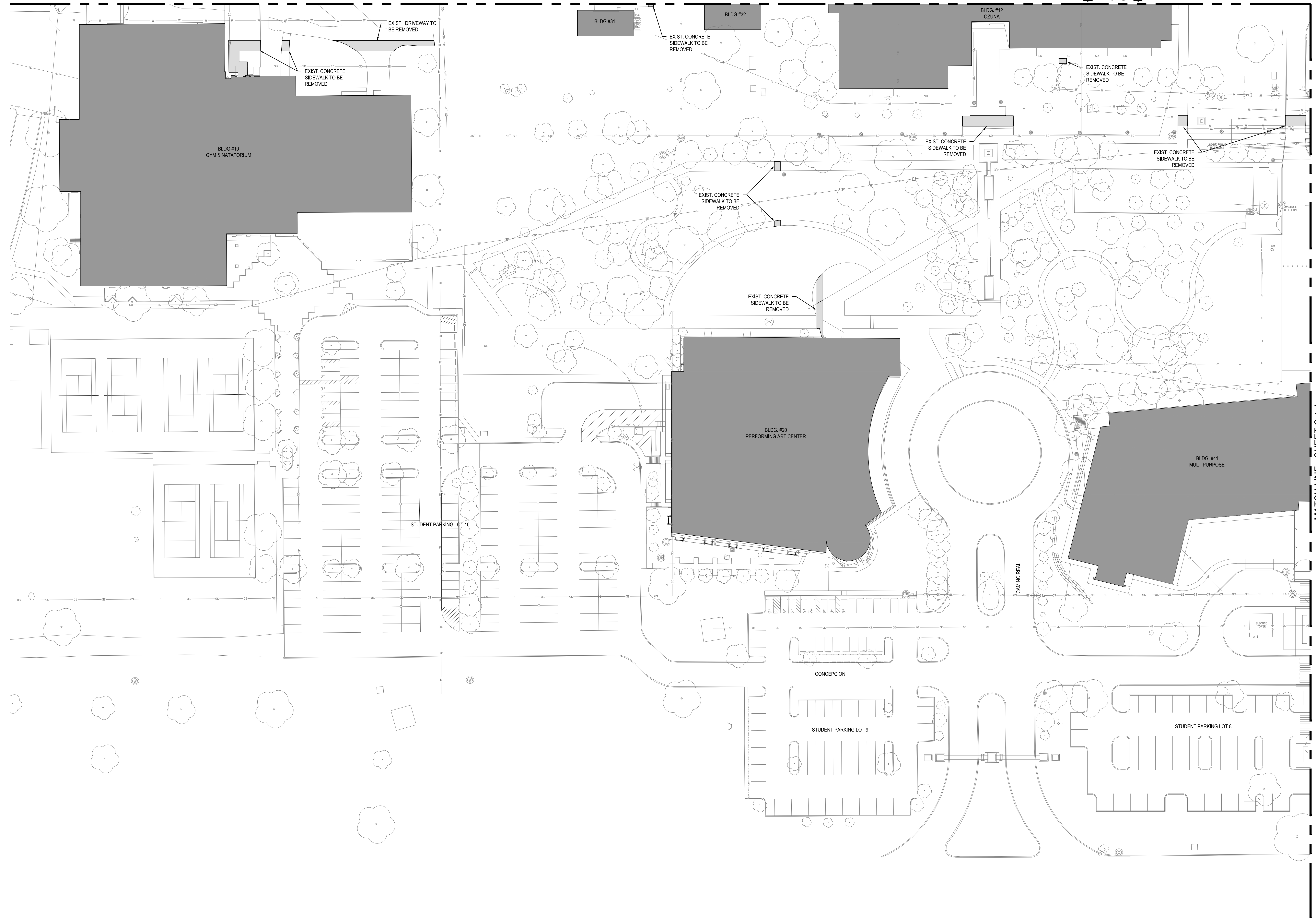
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LEGEND

EXISTING POWER POLE	⊙	EXISTING ELECTRIC PULLBOX	⊞	EXISTING OVERHEAD ELECTRIC LINE	— OHE —	EXISTING FIRE DEPARTMENT LINE	— FD —	EXISTING WOOD FENCE	— // —
EXISTING GUY WIRE	—>	EXISTING ELECTRIC JUNCTION BOX	⊞	EXISTING WATER LINE	— W —	EXISTING OVERHEAD HIGH VOLTAGE LINE	— HVV —	EXISTING CHAIN LINK FENCE	— - - -
EXISTING WATER METER	⊗	EXISTING FAUCET	⊕	EXISTING 12" WATER LINE	— 12" W —	EXISTING SANITARY SEWER LINE	— WWL —	EXISTING HIGH VOLTAGE TOWER	⊠
EXISTING GAS METER	⊗	EXISTING SPRINKLER	⊗	EXISTING STORM DRAIN	— SD —	EXISTING GAS LINE	— G —		
EXISTING POST	⊙	EXISTING MAILBOX	⊞	EXISTING CHILLED WATER	— CW —	EXISTING UNDERGROUND ELECTRIC LINE	— UE —	EXISTING BUILDING	▬
EXISTING SANITARY SEWER MANHOLE	⊙	EXISTING TREE	⊞	EXISTING UNDERGROUND TELEPHONE	— UT —	EXISTING CONTOURS	--- 960 ---	EXISTING FLATWORK TO BE REMOVED	▬

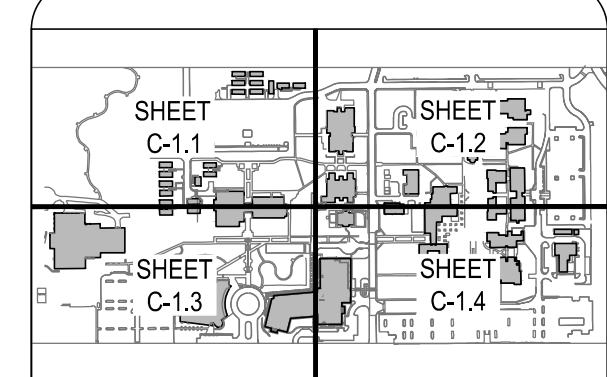
MATCH LINE - SHEET C-1.1



MATCH LINE - SHEET C-1.4

**ACD Palo Alto College
Hydronic Piping Replacement**

1400 West Villaret
 San Antonio, Texas, 78224
ISSUE FOR CONSTRUCTION



KEY PLAN PLAN TRUE NORTH NORTH NORTH

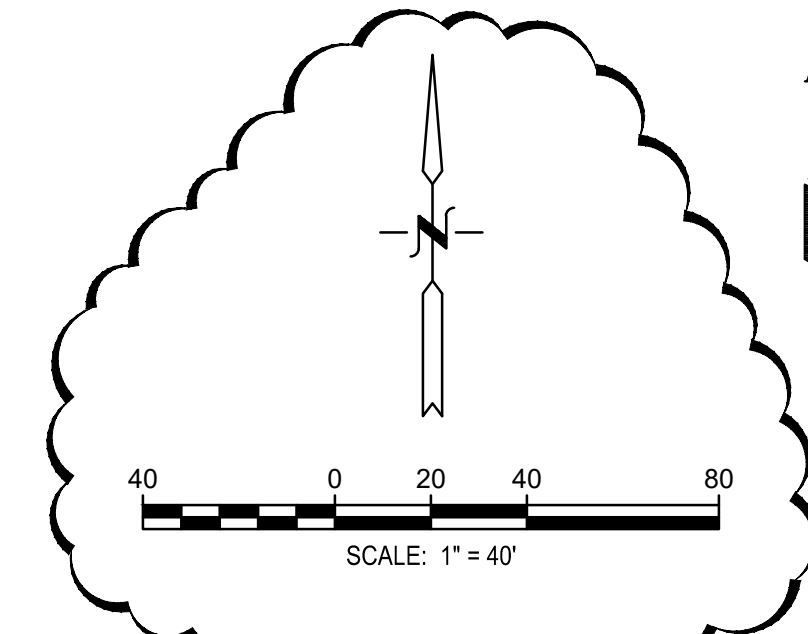


CLIENT	ACD PALO ALTO COLLEGE	
PROJECT NUMBER	C-1613	
DATE:	05/11/2023	
DRAWN BY:	M.L.	
CHECKED BY:	L.C.	
REVISIONS		
No.	Description	Date
1	REVISE SCALE BAR	06/18/24

ISSUE FOR CONSTRUCTION
**EXISTING SITE
 AND DEMOLITION
 PLAN
 SHEET 3**

C-1.3

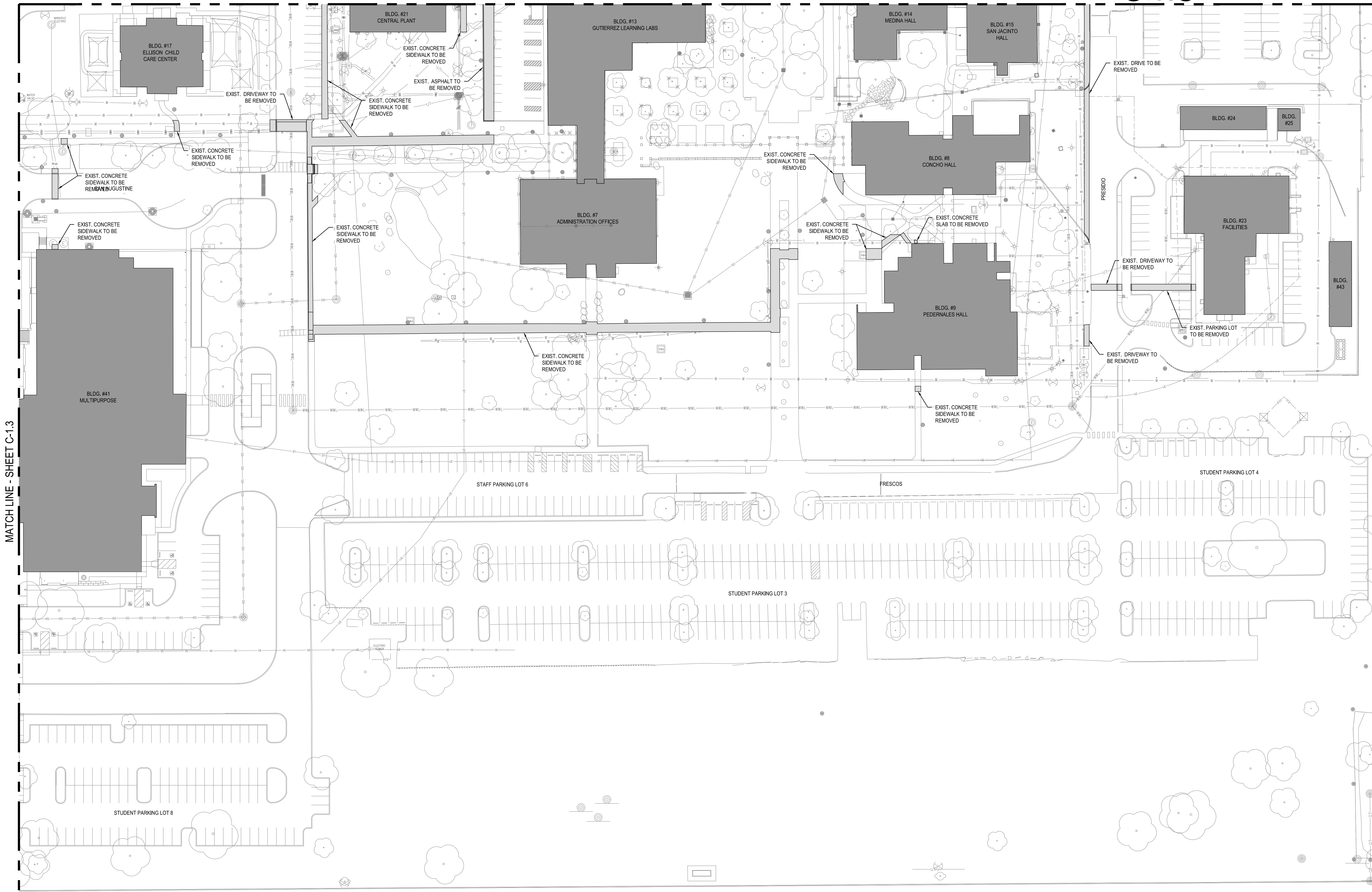
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 User: mjbain



LEGEND

EXISTING POWER POLE	⊙	EXISTING ELECTRIC PULLBOX	⊞	EXISTING OVERHEAD ELECTRIC LINE	— OHE —	EXISTING FIRE DEPARTMENT LINE	— FD —	EXISTING WOOD FENCE	— // —
EXISTING GUY WIRE	—	EXISTING ELECTRIC JUNCTION BOX	⊞	EXISTING WATER LINE	— W —	EXISTING OVERHEAD HIGH VOLTAGE LINE	— HV —	EXISTING CHAIN LINK FENCE	— ◊ —
EXISTING WATER METER	⊙	EXISTING FAUCET	⊕	EXISTING 12" WATER LINE	— 12" W —	EXISTING SANITARY SEWER LINE	— WWL —	EXISTING HIGH VOLTAGE TOWER	⊞
EXISTING GAS METER	⊙	EXISTING SPRINKLER	⊕	EXISTING STORM DRAIN	— SD —	EXISTING GAS LINE	— G —	EXISTING BUILDING	▬
EXISTING POST	⊙	EXISTING MAILBOX	⊕	EXISTING CHILLED WATER	— CW —	EXISTING UNDERGROUND ELECTRIC LINE	— UE —	EXISTING FLATWORK TO BE REMOVED	▬
EXISTING SANITARY SEWER MANHOLE	⊙	EXISTING TREE	⊕	EXISTING UNDERGROUND TELEPHONE	— UT —	EXISTING CONTOURS	— 960 —		

MATCH LINE - SHEET C-1.2



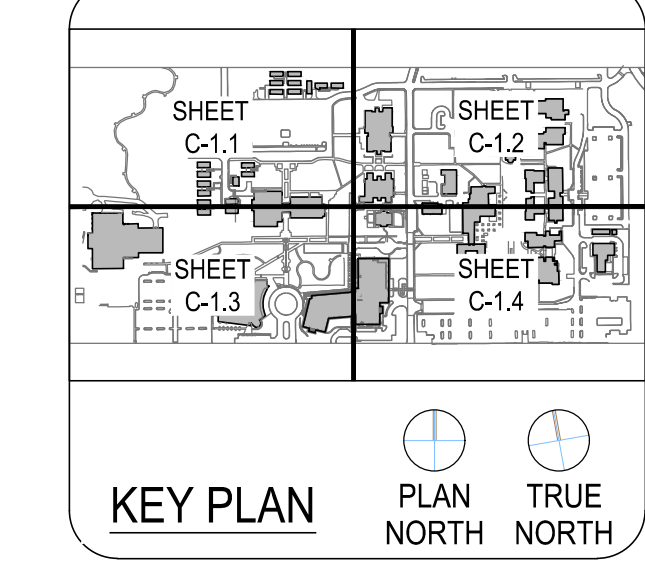
MATCH LINE - SHEET C-1.3

OWNER	ALAMO COLLEGE DISTRICT
ARCHITECT	PKM ARCHITECTS
CIVIL SURVEYOR	SAN MEDINA BAIN
LANDSCAPE	EDGE LAND GROUP

**ACD Palo Alto College
 Hydronic Piping Replacement**

1400 West Villaret
 San Antonio, Texas, 78224

ISSUE FOR CONSTRUCTION



CLIENT	ACD PALO ALTO COLLEGE	
PROJECT NUMBER	C-1613	
DATE	05/11/2023	
DRAWN BY	M.L.	
CHECKED BY	L.C.	
REVISIONS		
No.	Description	Date
1	REVISE SCALE BAR	06/16/24

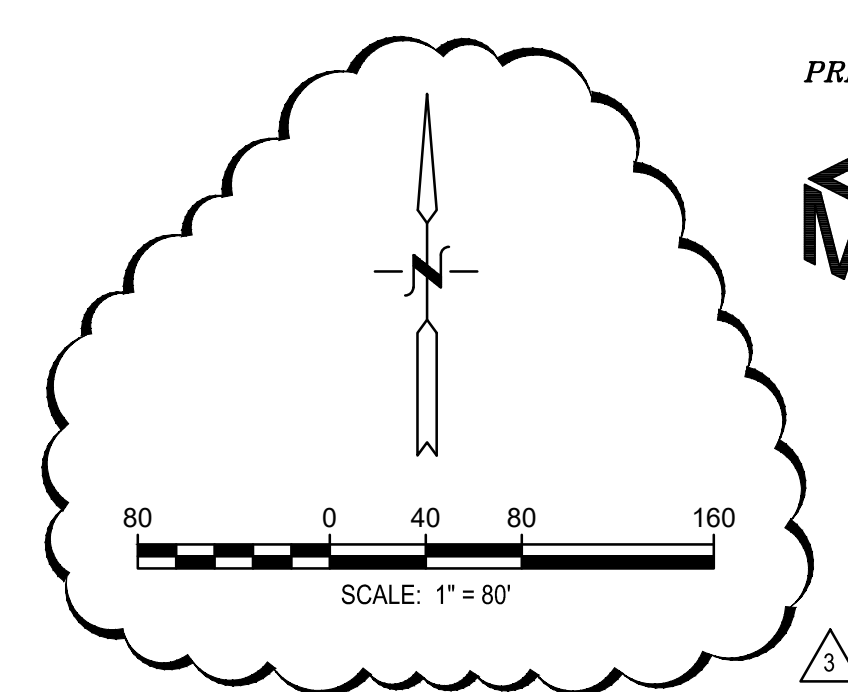
ISSUE FOR CONSTRUCTION

**EXISTING SITE
 AND DEMOLITION
 PLAN
 SHEET 4**

C-1.4

Drawn by: M.L. Date: 05/11/2023
 Check by: L.C. Date: 06/16/2024
 Project: 1400 West Villaret, ACD Palo Alto College, Hydronic Piping Replacement
 File: \\leaf\cadd\2023\1400 West Villaret, ACD Palo Alto College, Hydronic Piping Replacement\1400 West Villaret, ACD Palo Alto College, Hydronic Piping Replacement.dwg
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 Plot: 1400 West Villaret, ACD Palo Alto College, Hydronic Piping Replacement.dwg
 Plot Date: 06/16/2024 Time: 10:10:10 AM
 Plot Scale: 1" = 40'
 Plot Size: 36" x 48"

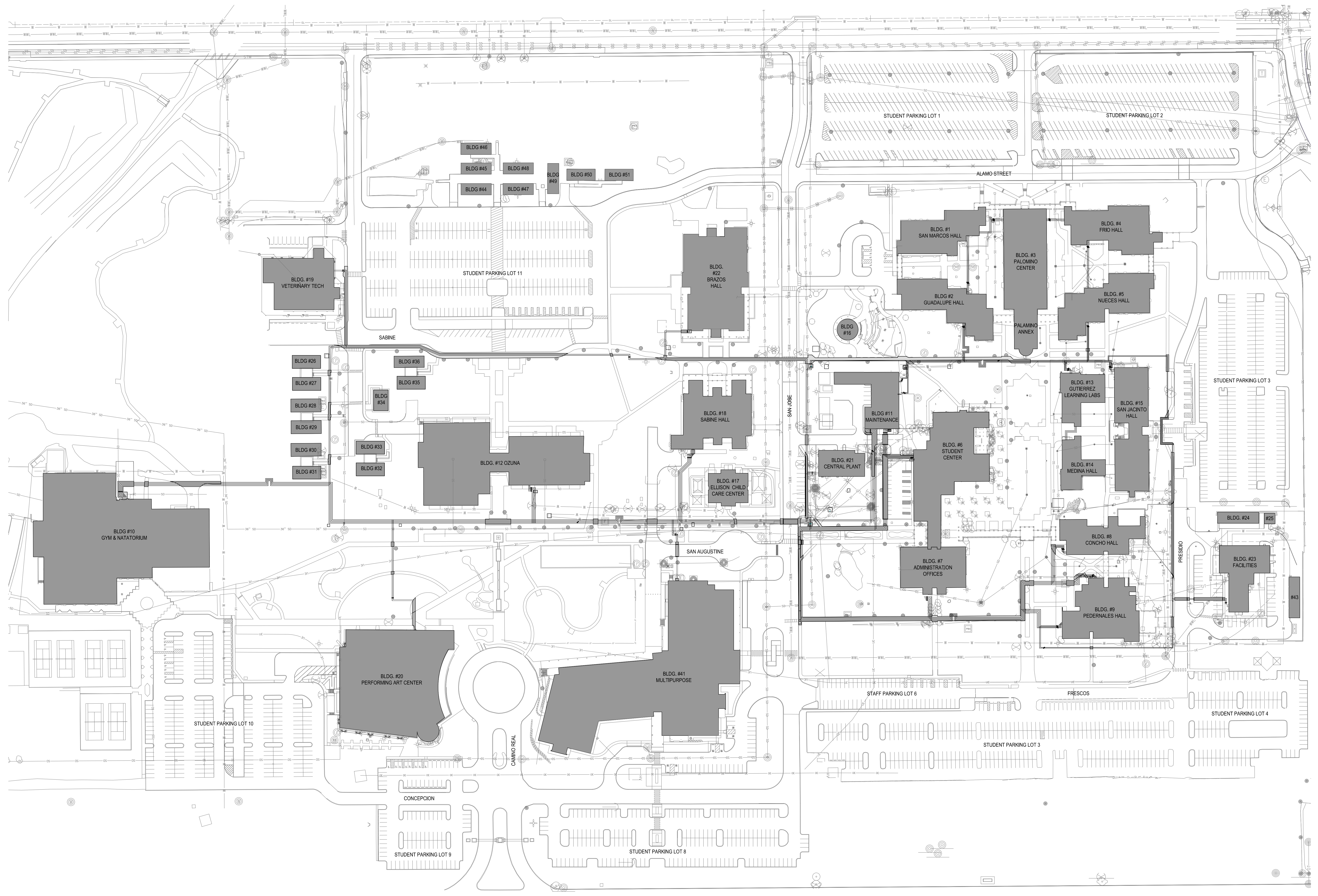
PREPARED BY:
BAIN MEDINA BAIN, INC.
 ENGINEERS & SURVEYORS
 7073 San Pedro Avenue
 San Antonio, Texas 78216
 210-494-7223
 TBPB Registration No. F-1712
 TBPIS Registration No. 10020900



LEGEND

EXISTING POWER POLE	⊙	EXISTING ELECTRIC PULLBOX	⊠	EXISTING OVERHEAD ELECTRIC LINE	— OHC —	EXISTING FIRE DEPARTMENT LINE	— FD —	EXISTING WOOD FENCE	— // —
EXISTING GUY WIRE	—	EXISTING ELECTRIC JUNCTION BOX	⊕	EXISTING WATER LINE	— W —	EXISTING OVERHEAD HIGH VOLTAGE LINE	— HV —	EXISTING CHAIN LINK FENCE	— ◊ —
EXISTING WATER METER	⊕	EXISTING FAUCET	⊕	EXISTING 12" WATER LINE	— 12" W —	EXISTING SANITARY SEWER LINE	— SSW —	EXISTING HIGH VOLTAGE TOWER	⊠
EXISTING GAS METER	⊕	EXISTING SPRINKLER	⊕	EXISTING STORM DRAIN	— SD —	EXISTING GAS LINE	— G —	EXISTING BUILDING	▬
EXISTING POST	⊙	EXISTING MAILBOX	⊠	EXISTING CHILLED WATER	— CW —	EXISTING UNDERGROUND ELECTRIC LINE	— UE —	EXISTING FLATWORK TO BE REMOVED	▬
EXISTING SANITARY SEWER MANHOLE	⊕	EXISTING TREE	⊕	EXISTING UNDERGROUND TELEPHONE	— UT —	EXISTING CONTOURS	— 960 —		

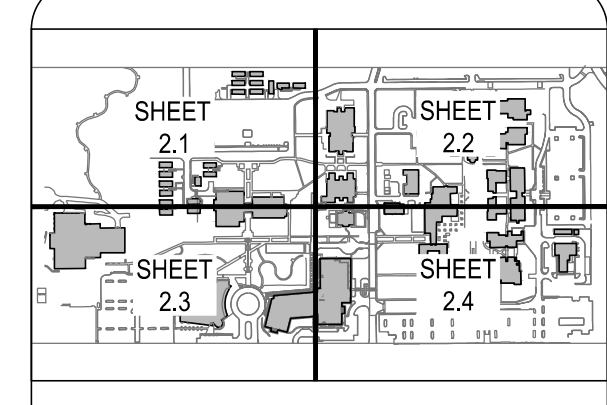
NOTE:
 DURING CONSTRUCTION CONTRACTOR
 SHALL PROVIDE TEMPORARY PEDESTRIAN
 AND ADA ACCESS AT ALL TIMES.



**ACD Palo Alto College
 Hydronic Piping Replacement**

1400 West Villaret
 San Antonio, Texas, 78224

ISSUE FOR CONSTRUCTION



KEY PLAN PLAN TRUE NORTH NORTH NORTH



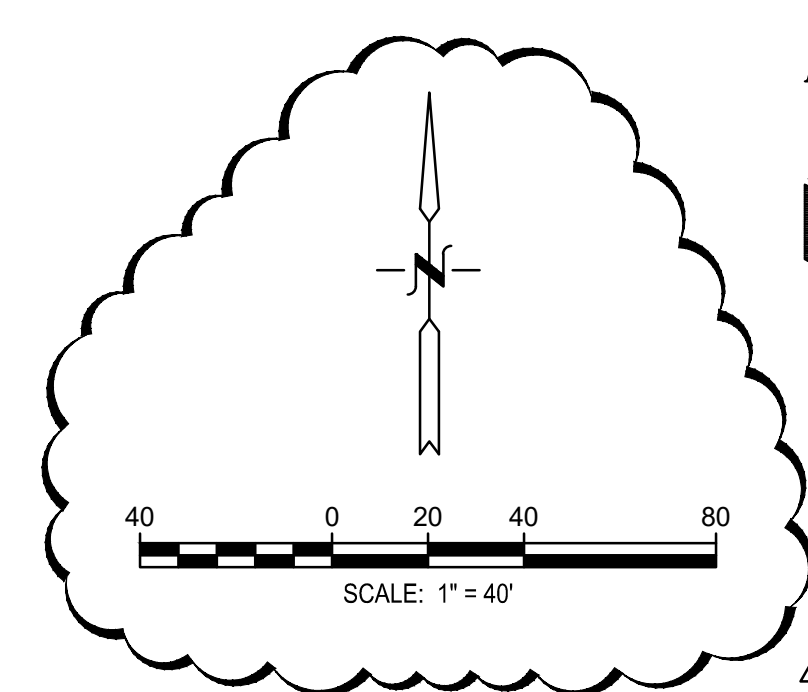
CLIENT	ACD PALO ALTO COLLEGE	
PROJECT NUMBER	C-1613	
DATE	05/11/2023	
DRAWN BY	M.L.	
CHECKED BY	L.C.	
REVISIONS		
No.	Description	Date
1	REVISE SCALE BAR	06/18/24

ISSUE FOR CONSTRUCTION

**OVERALL
 PROPOSED SITE
 PLAN**

C-2.0

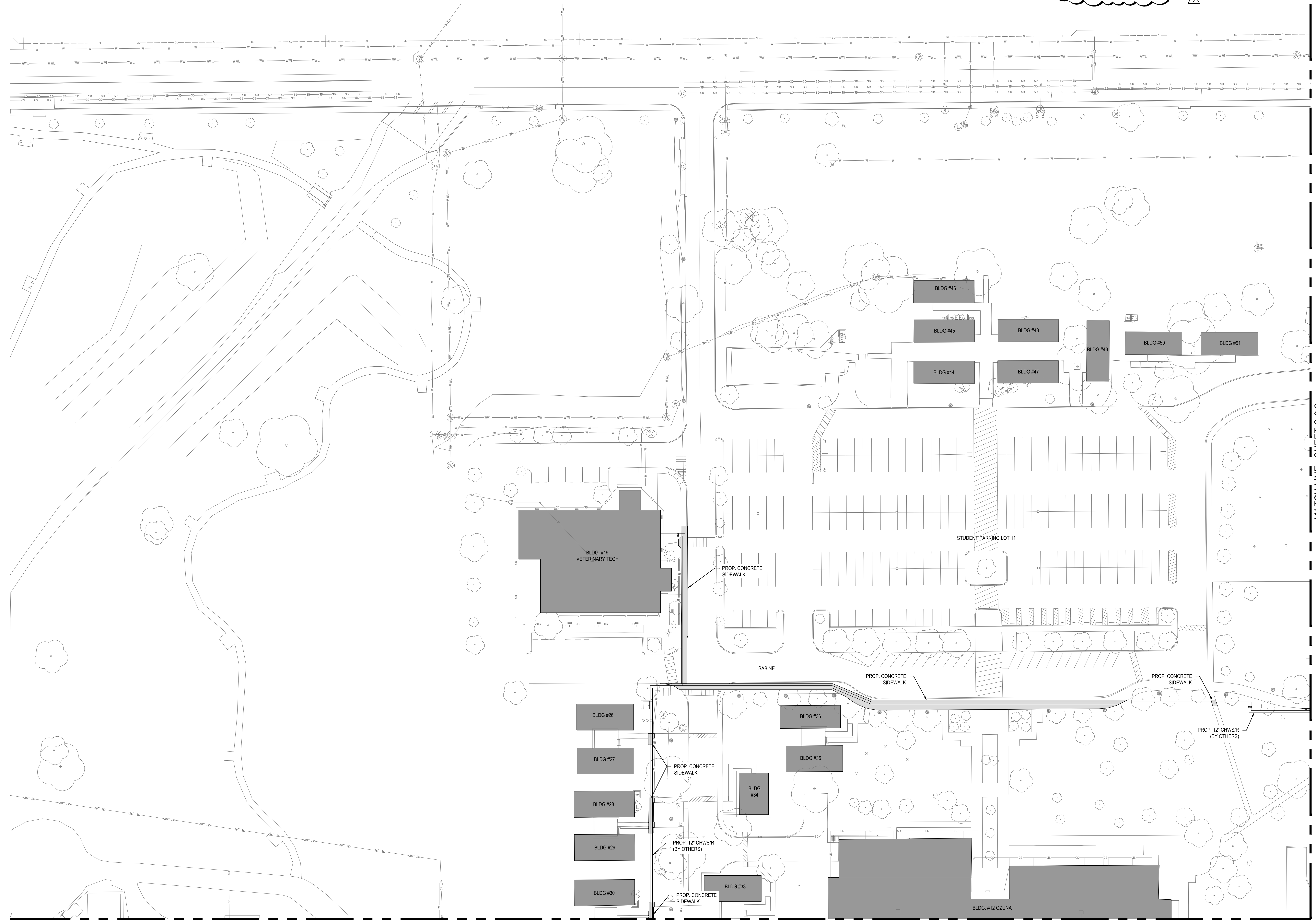
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 Drawn by: M.L. (05/11/2023) Checked by: L.C. (05/11/2023)



LEGEND

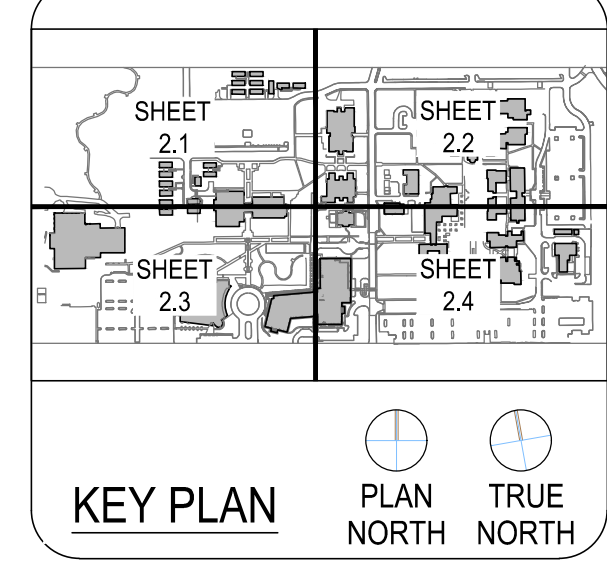
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|---------------------------------|----|--------------------------------|---|---------------------------------|-----------|-------------------------------------|---------|---------------------------------|--------|
| EXISTING POWER POLE | ⊕ | EXISTING ELECTRIC PULLBOX | ⊞ | EXISTING OVERHEAD ELECTRIC LINE | — OHE — | EXISTING FIRE DEPARTMENT LINE | — FD — | EXISTING WOOD FENCE | — // — |
| EXISTING GUY WIRE | —> | EXISTING ELECTRIC JUNCTION BOX | ⊞ | EXISTING WATER LINE | — W — | EXISTING OVERHEAD HIGH VOLTAGE LINE | — HV — | EXISTING CHAIN LINK FENCE | — ○ — |
| EXISTING WATER METER | ⊗ | EXISTING FAUCET | ⊞ | EXISTING 12" WATER LINE | — 12" W — | EXISTING SANITARY SEWER LINE | — WWL — | EXISTING HIGH VOLTAGE TOWER | ⊞ |
| EXISTING GAS METER | ⊗ | EXISTING SPRINKLER | ⊞ | EXISTING STORM DRAIN | — SD — | EXISTING GAS LINE | — G — | EXISTING BUILDING | ▬ |
| EXISTING POST | ⊙ | EXISTING MAILBOX | ⊞ | EXISTING CHILLED WATER | — CW — | EXISTING UNDERGROUND ELECTRIC LINE | — UE — | EXISTING FLATWORK TO BE REMOVED | ▬ |
| EXISTING SANITARY SEWER MANHOLE | ⊞ | EXISTING TREE | ⊞ | EXISTING UNDERGROUND TELEPHONE | — UT — | EXISTING CONTOURS | — 960 — | | |

NOTE:
 DURING CONSTRUCTION CONTRACTOR
 SHALL PROVIDE TEMPORARY PEDESTRIAN
 AND ADA ACCESS AT ALL TIMES.



**ACD Palo Alto College
 Hydronic Piping Replacement**

1400 West Villaret
 San Antonio, Texas, 78224
ISSUE FOR CONSTRUCTION



CLIENT ACD PALO ALTO COLLEGE		
PROJECT NUMBER C-1613		
DATE:	05/11/2023	
DRAWN BY:	M.L.	
CHECKED BY:	L.C.	
REVISIONS		
No.	Description	Date
1	REVISE SCALE BAR	06/18/24

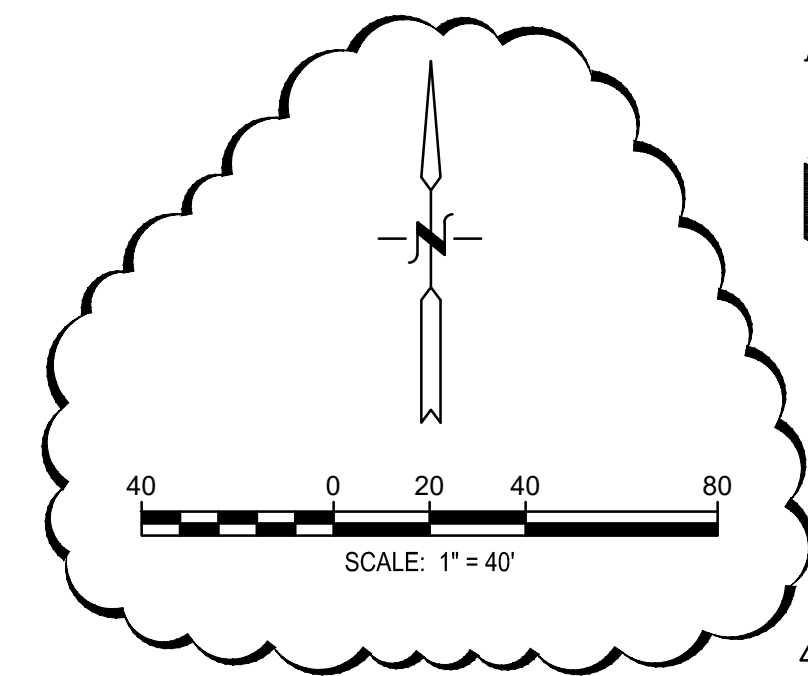
ISSUE FOR CONSTRUCTION

PROPOSED SITE PLAN

SHEET 1

C-2.1

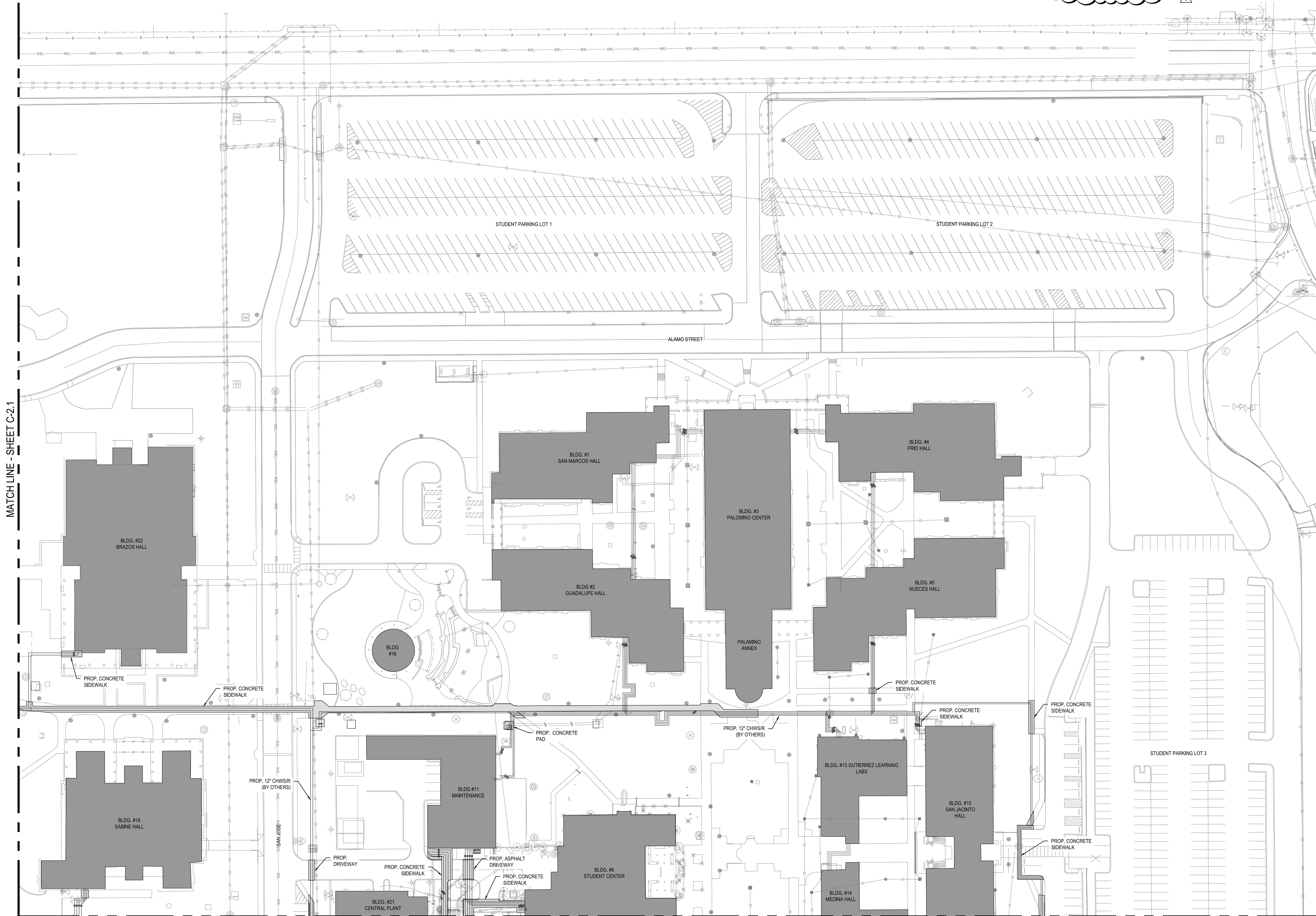
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 Checked by: L.C. Date: 05/11/2023
 Project: ACD Palo Alto College Hydronic Piping Replacement
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LEGEND

EXISTING POWER POLE		EXISTING ELECTRIC PULLBOX		EXISTING OVERHEAD ELECTRIC LINE		EXISTING FIRE DEPARTMENT LINE		EXISTING WOOD FENCE	
EXISTING GUY WIRE		EXISTING ELECTRIC JUNCTION BOX		EXISTING WATER LINE		EXISTING OVERHEAD HIGH VOLTAGE LINE		EXISTING CHAIN LINK FENCE	
EXISTING WATER METER		EXISTING FAUCET		EXISTING 12" WATER LINE		EXISTING SANITARY SEWER LINE		EXISTING HIGH VOLTAGE TOWER	
EXISTING GAS METER		EXISTING SPRINKLER		EXISTING STORM DRAIN		EXISTING GAS LINE		EXISTING BUILDING	
EXISTING POST		EXISTING MAILBOX		EXISTING CHILLED WATER		EXISTING UNDERGROUND ELECTRIC LINE		EXISTING FLATWORK TO BE REMOVED	
EXISTING SANITARY SEWER MANHOLE		EXISTING TREE		EXISTING UNDERGROUND TELEPHONE		EXISTING CONTOURS			

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 DURING CONSTRUCTION CONTRACTOR
 SHALL PROVIDE TEMPORARY PEDESTRIAN
 AND ADA ACCESS AT ALL TIMES.

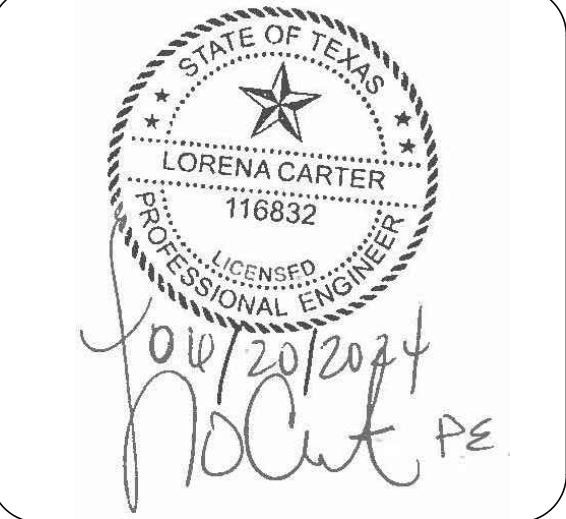
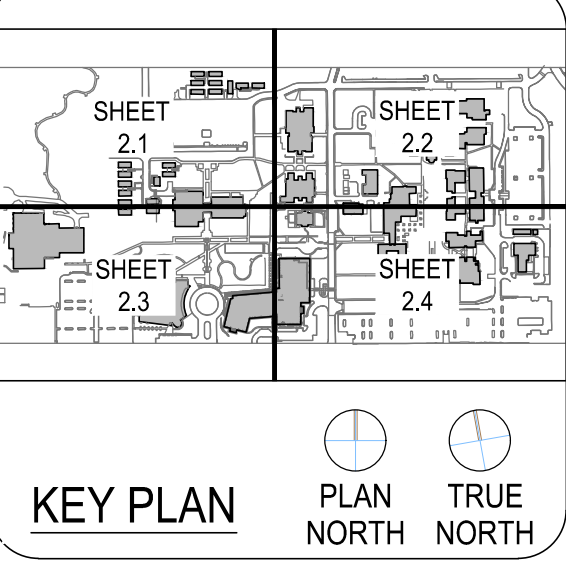
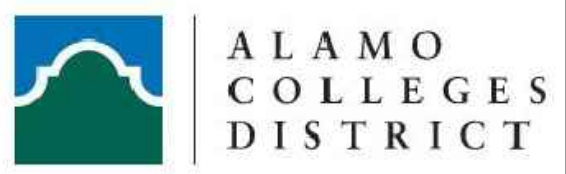


MATCH LINE - SHEET C-2.1

MATCH LINE - SHEET C-2.4

MEPT	LEAF Engineers
OWNER	ALAMO COLLEGE DISTRICT 601 NW LOOP 410, Suite 460, San Antonio, TX 78216 210-638-7200 P 210-638-6376 F TX Firm: F-18672 leafengineers.com
ARCHITECT	PKB ARCHITECTS 601 NW LOOP 410, Suite 400 SAN ANTONIO, TEXAS 78216 210-638-3711 P 210-638-0574 F
CIVIL SURVEYOR	SAN MEDINA BAIN 7073 SAN PEDRO SAN ANTONIO, TEXAS 78216 210-494-7223 P 210-494-6125 F
LANDSCAPE	EDGE LAND GROUP 601 NW LOOP 410, Suite 400 SAN ANTONIO, TEXAS 78216 210-488-0989 P 210-641-6217 F

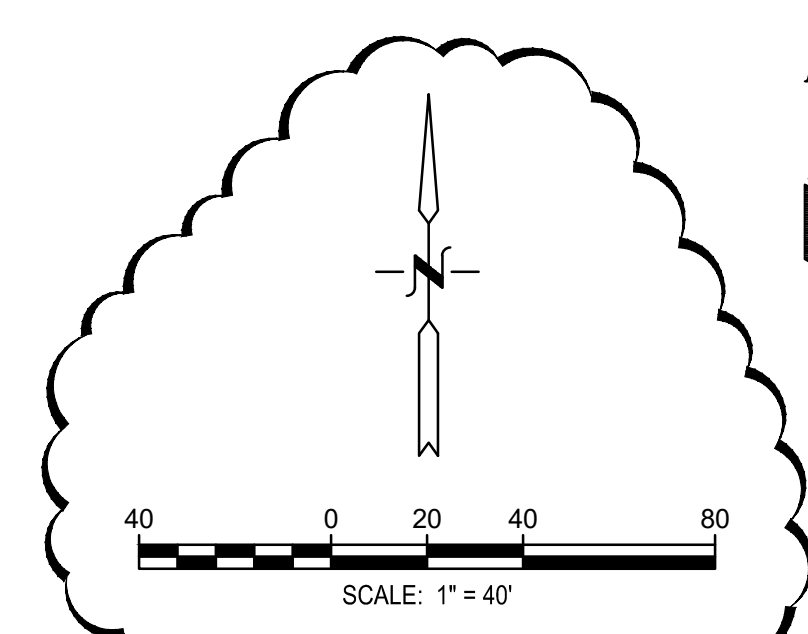
ACD Palo Alto College
Hydronic Piping Replacement
 1400 West Villaret
 San Antonio, Texas, 78224
ISSUE FOR CONSTRUCTION



CLIENT	ACD PALO ALTO COLLEGE	
PROJECT NUMBER	C-1613	
DATE	05/11/2023	
DRAWN BY	M.L.	
CHECKED BY	L.C.	
REVISIONS		
No.	Description	Date
1	REVISE SCALE BAR	06/18/24

ISSUE FOR CONSTRUCTION
PROPOSED SITE PLAN
SHEET 2
C-2.2

Drawn by: M.L. (M.L. 25173) P.E., License No. 116832, State of Texas
 Check by: L.C. (L.C. 25173) P.E., License No. 116832, State of Texas
 Date: 05/11/2023
 Project: ACD Palo Alto College - Hydronic Piping Replacement
 Sheet: C-2.2 of 2
 Scale: 1" = 40'
 Title: PROPOSED SITE PLAN
 Author: M.L.
 Date: 05/11/2023
 Project: ACD Palo Alto College - Hydronic Piping Replacement
 Sheet: C-2.2 of 2
 Scale: 1" = 40'
 Title: PROPOSED SITE PLAN
 Author: M.L.
 Date: 05/11/2023

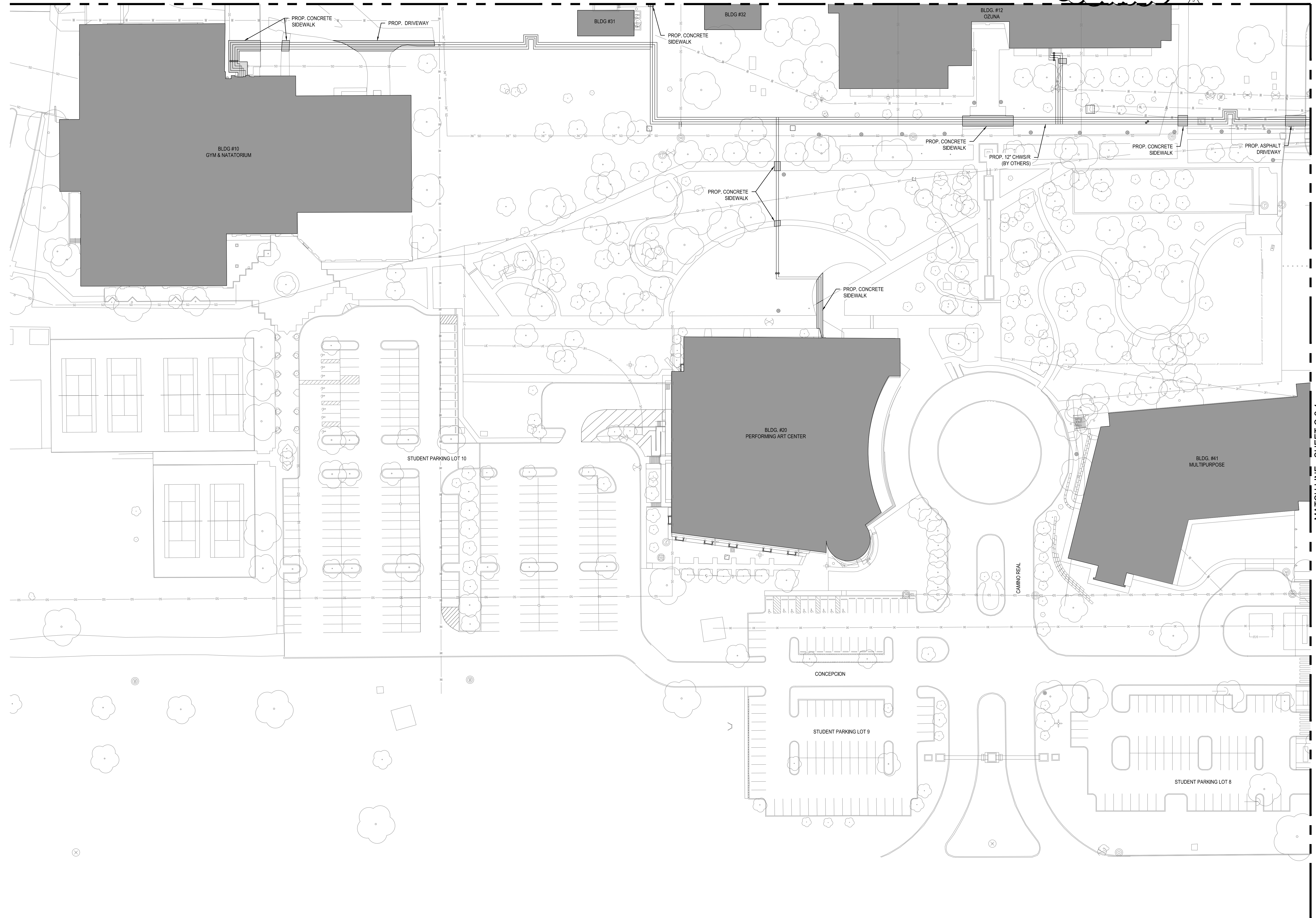


LEGEND

EXISTING POWER POLE	EXISTING ELECTRIC PULLBOX	EXISTING OVERHEAD ELECTRIC LINE	EXISTING FIRE DEPARTMENT LINE	EXISTING WOOD FENCE
EXISTING GUY WIRE	EXISTING ELECTRIC JUNCTION BOX	EXISTING WATER LINE	EXISTING OVERHEAD HIGH VOLTAGE LINE	EXISTING CHAIN LINK FENCE
EXISTING WATER METER	EXISTING FAUCET	EXISTING 12" WATER LINE	EXISTING SANITARY SEWER LINE	EXISTING HIGH VOLTAGE TOWER
EXISTING GAS METER	EXISTING SPRINKLER	EXISTING STORM DRAIN	EXISTING GAS LINE	EXISTING UNDERGROUND ELECTRIC LINE
EXISTING POST	EXISTING MAILBOX	EXISTING CHILLED WATER	EXISTING UNDERGROUND TELEPHONE	EXISTING CONTOURS
EXISTING SANITARY SEWER MANHOLE	EXISTING TREE			EXISTING BUILDING
				EXISTING FLATWORK TO BE REMOVED

NOTE:
 DURING CONSTRUCTION CONTRACTOR SHALL PROVIDE TEMPORARY PEDESTRIAN AND ADA ACCESS AT ALL TIMES.

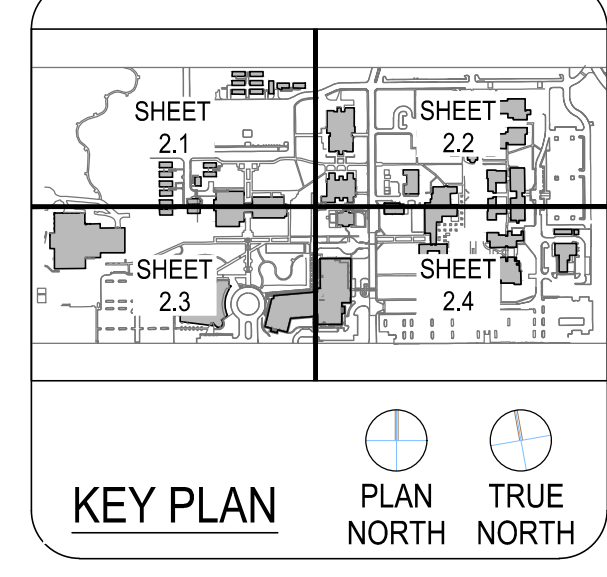
MATCH LINE - SHEET C-2.1



MATCH LINE - SHEET C-2.4

**ACD Palo Alto College
 Hydronic Piping Replacement**

1400 West Villaret
 San Antonio, Texas, 78224
ISSUE FOR CONSTRUCTION



CLIENT ACD PALO ALTO COLLEGE		
PROJECT NUMBER C-1613		
DATE:	05/11/2023	
DRAWN BY:	M.L.	
CHECKED BY:	L.C.	
REVISIONS		
No.	Description	Date
1	REVISE SCALE BAR	06/18/24

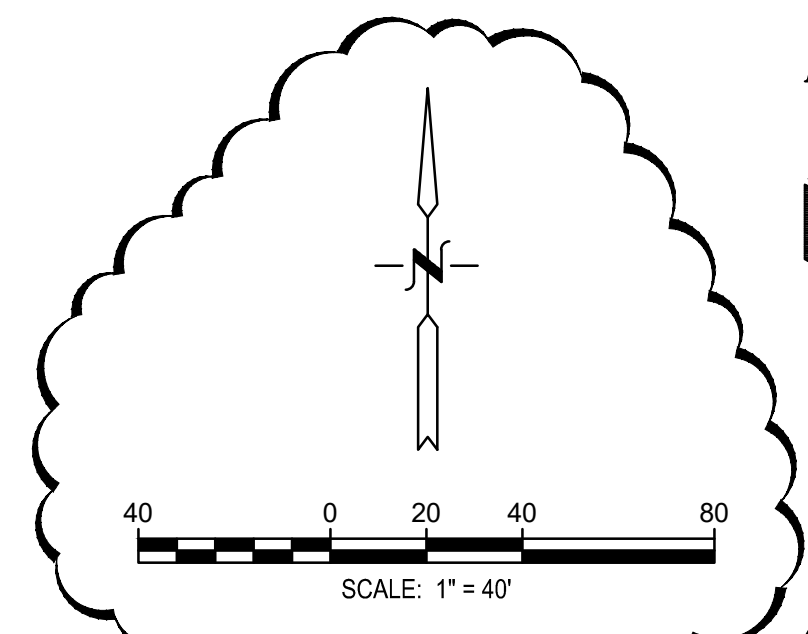
ISSUE FOR CONSTRUCTION

PROPOSED SITE PLAN

SHEET 3

C-2.3

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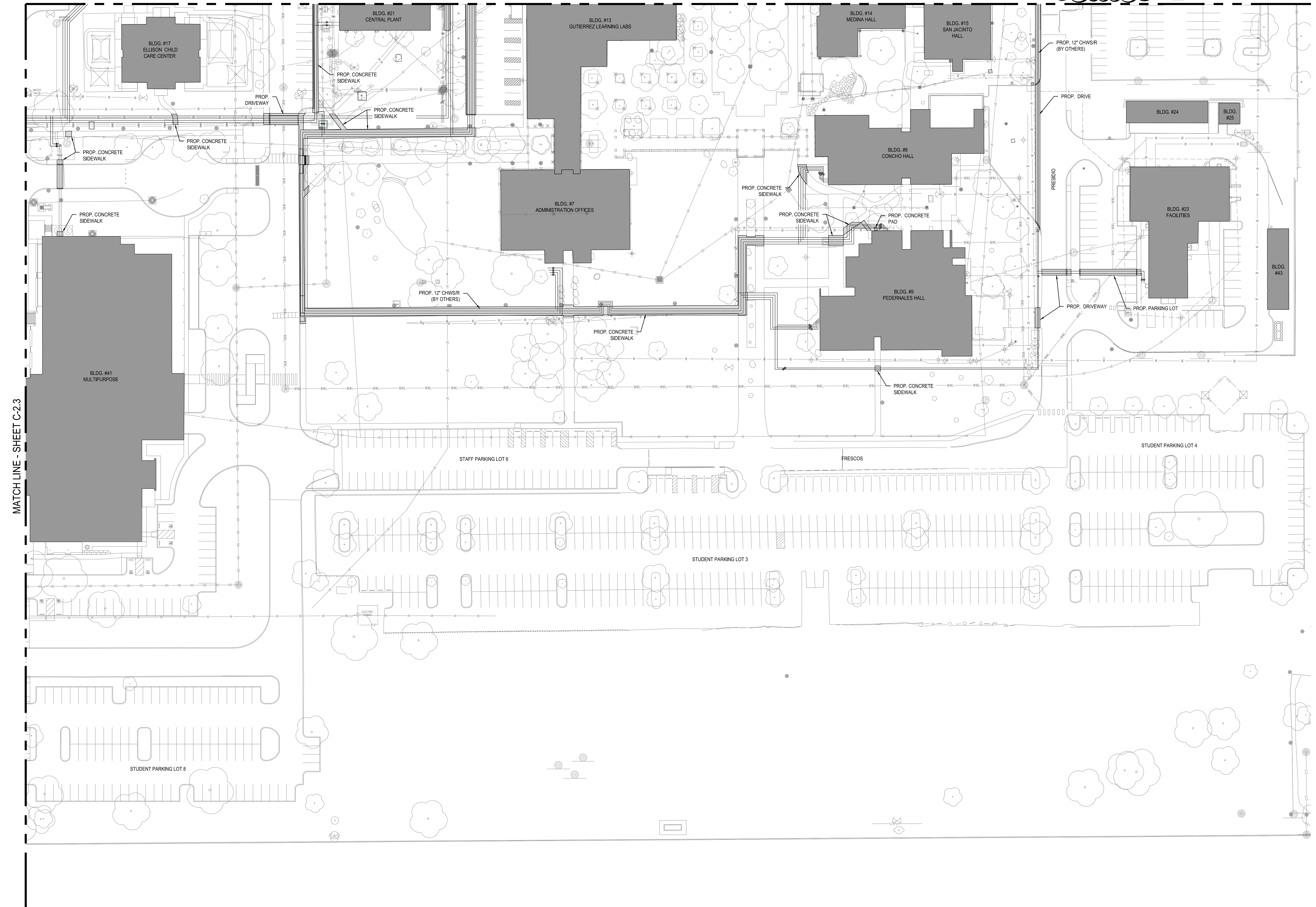


LEGEND

EXISTING POWER POLE	EXISTING ELECTRIC PULLBOX	EXISTING OVERHEAD ELECTRIC LINE	EXISTING FIRE DEPARTMENT LINE	EXISTING WOOD FENCE
EXISTING GUY WIRE	EXISTING ELECTRIC JUNCTION BOX	EXISTING WATER LINE	EXISTING OVERHEAD HIGH VOLTAGE LINE	EXISTING CHAIN LINK FENCE
EXISTING WATER METER	EXISTING FAUCET	EXISTING 12" WATER LINE	EXISTING SANITARY SEWER LINE	EXISTING HIGH VOLTAGE TOWER
EXISTING GAS METER	EXISTING SPRINKLER	EXISTING STORM DRAIN	EXISTING GAS LINE	EXISTING BUILDING
EXISTING POST	EXISTING MAILBOX	EXISTING CHILLED WATER	EXISTING UNDERGROUND ELECTRIC LINE	EXISTING FLATWORK TO BE REMOVED
EXISTING SANITARY SEWER MANHOLE	EXISTING TREE	EXISTING UNDERGROUND TELEPHONE	EXISTING CONTOURS	

NOTE:
 DURING CONSTRUCTION CONTRACTOR
 SHALL PROVIDE TEMPORARY PEDESTRIAN
 AND ADA ACCESS AT ALL TIMES.

MATCH LINE - SHEET C-2.2



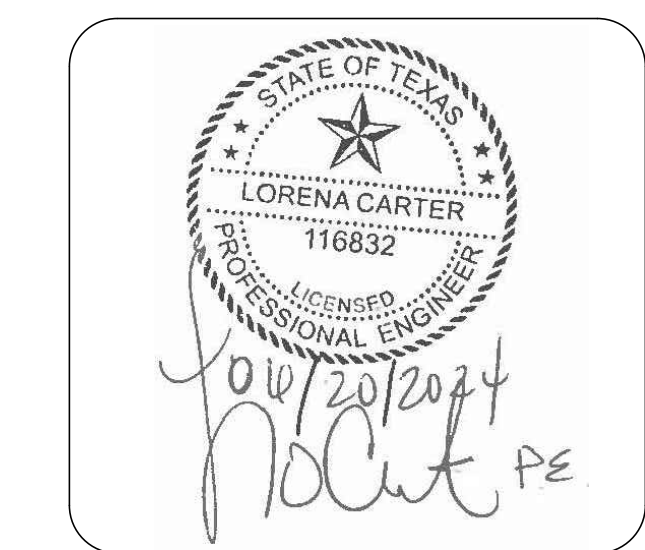
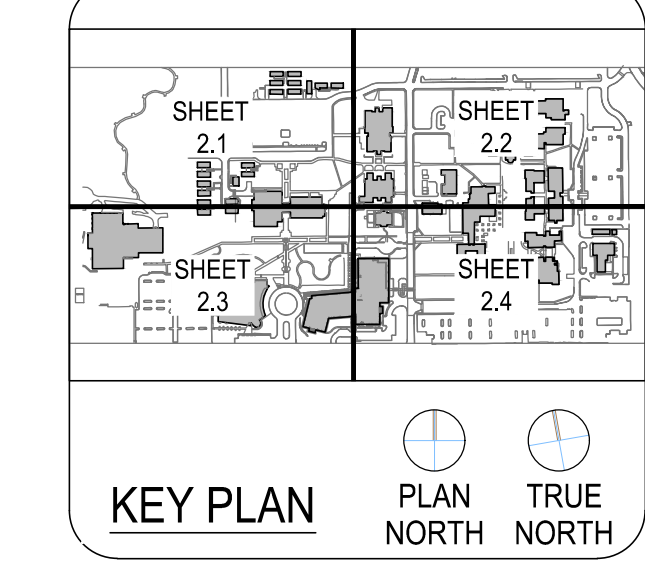
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MEPT	LEAF Engineers
OWNER	ALAMO COLLEGE DISTRICT 601 NW LOOP 410, Suite 450, San Antonio, TX 78216 210-438-7200 P 210-424-5716 F TX Firm: F-18672 leafengineers.com
ARCHITECT	2222 NORTH ALAMO STREET SAN ANTONIO, TEXAS 78215 210-555-0007 P 210-555-0007 F
CIVIL SURVEYOR	601 NW LOOP 410, SUITE 450 SAN ANTONIO, TEXAS 78216 210-494-7223 P 210-494-7223 F
LANDSCAPE	7073 SAN PEDRO SAN ANTONIO, TEXAS 78216 210-494-7223 P 210-494-7223 F
	PEAK ARCHITECTS SAN MEDINA BANK EDGE LAND GROUP

**ACD Palo Alto College
 Hydronic Piping Replacement**

1400 West Villaret
 San Antonio, Texas, 78224

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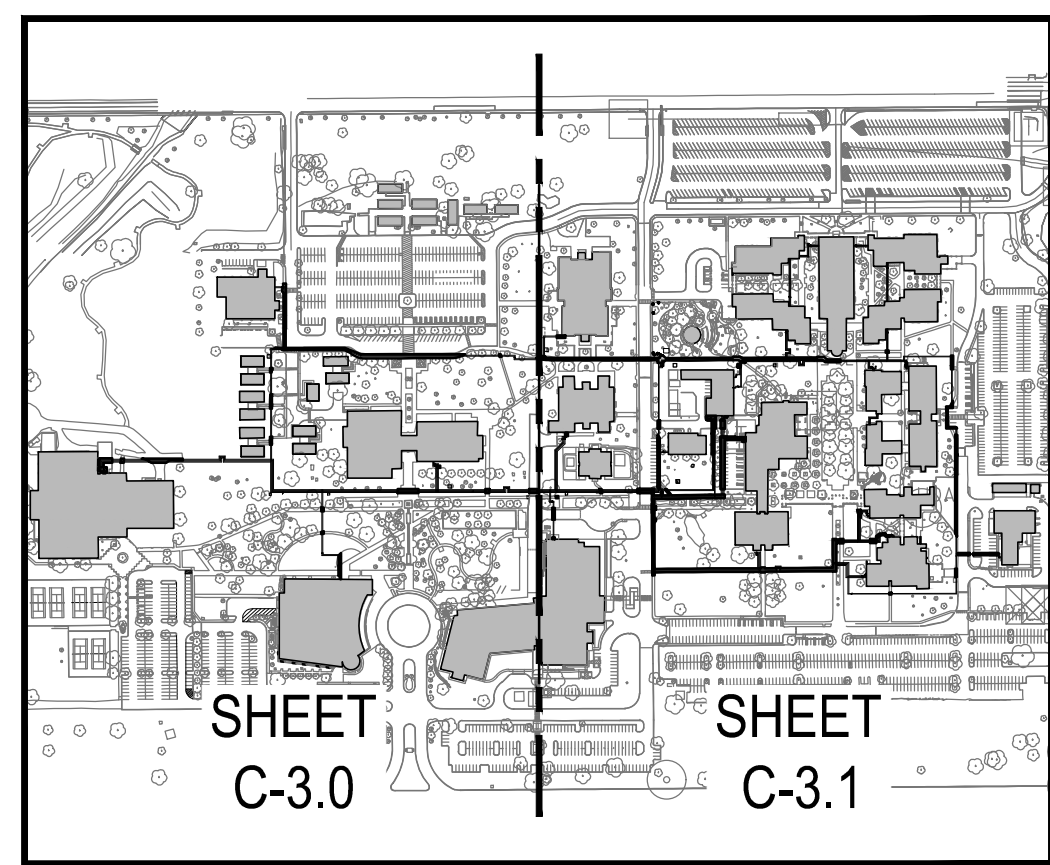
CLIENT	ACD PALO ALTO COLLEGE	
PROJECT NUMBER	C-1613	
DATE	05/11/2023	
DRAWN BY	M.L.	
CHECKED BY	L.C.	
REVISIONS		
No.	Description	Date
1	REVISE SCALE BAR	06/18/24

ISSUE FOR CONSTRUCTION

**PROPOSED SITE
 PLAN**

SHEET 4

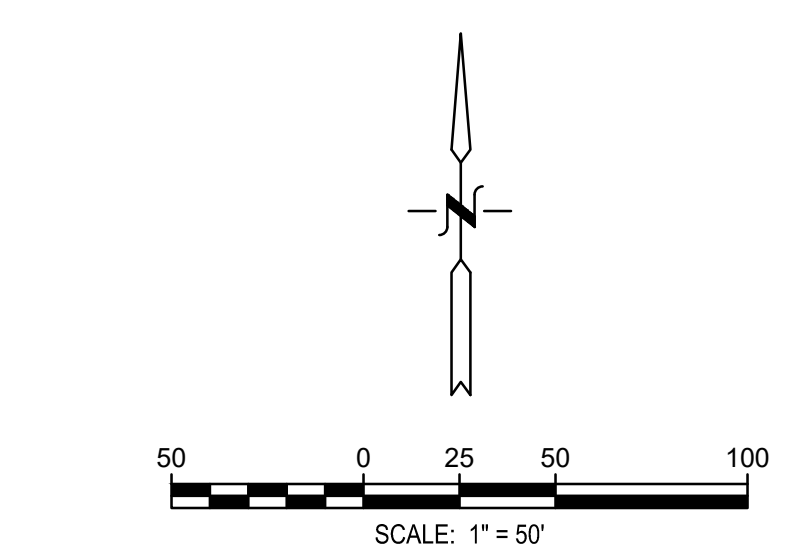
C-2.4



KEY MAP
N.T.S.

LEGEND

- EXISTING POWER POLE
- EXISTING GUY WIRE
- EXISTING WATER METER
- EXISTING WATER VALVE
- EXISTING FIRE HYDRANT
- EXISTING SANITARY SEWER MANHOLE
- EXISTING TELEPHONE PEDESTAL
- EXISTING ELECTRIC PULLBOX
- EXISTING ELECTRIC JUNCTION BOX
- EXISTING TREE
- EXISTING OVERHEAD ELECTRIC LINE
- EXISTING WATER LINE
- EXISTING SANITARY SEWER LINE
- EXISTING GAS LINE
- EXISTING UNDERGROUND ELECTRIC LINE
- EXISTING CONTOURS
- EXISTING WOOD FENCE
- SILT CONTROL FENCE
- GRAVEL FILTER BAG
- CONSTRUCTION ENTRANCE
- ROCK FILTER DAM



Notes:

- All temporary erosion and sedimentation controls shall be removed by the contractor and areas disturbed by their removal shall be stabilized before final acceptance of the project.
- Contractor is required to clean up daily and maintain sidewalks around work areas free of mud, dirt, and debris.
- Contractor shall prepare a storm water pollution prevention plan and shall submit a notice of intent for storm water discharges associated with construction activity under the TPDES general permit to the EPA.

EROSION AND SEDIMENT CONTROLS

SITE DESCRIPTION

PROJECT LIMITS: Palo Alto Hydronic Pumping Project

PROJECT DESCRIPTION: Demolition of existing sidewalk and asphalt, removal of underground hot and chill water lines, construction of new hot and chill water lines, construction of new sidewalk and asphalt where utilities were installed.

MAJOR SOIL DISTURBING ACTIVITIES: Soil disturbing activities will include preparing site clearing, and grubbing, grading and excavation.

TOTAL PROJECT AREA: 0.73 Acres

TOTAL AREA TO BE DISTURBED: 0.73 Acres

WEIGHTED RUNOFF COEFFICIENT (AFTER CONSTRUCTION): 0.65

EXISTING CONDITION OF SOIL & VEGETATIVE COVER AND % OF EXISTING VEGETATIVE COVER: Average Grass Surface (65% Cover)

NAME OF RECEIVING WATERS: Leon Creek

SOIL STABILIZATION PRACTICES:

- TEMPORARY SEEDING
- PERMANENT PLANTING, SODDING, OR SEEDING
- MULCHING
- SOIL RETENTION BLANKET
- BUFFER ZONES
- PRESERVATION OF NATURAL RESOURCES

OTHER: Disturbed areas on which construction activity has ceased (temporarily or permanently) shall be stabilized within 14 days unless activities are scheduled to resume and do within 21 days.

STRUCTURAL PRACTICES:

- SILT FENCES
- HAY BALES
- ROCK BERMS
- DIVERSION, INTERCEPTOR, OR PERIMETER DIKES
- DIVERSION DIKE AND SWALE COMBINATIONS
- PIPE SLOPE DRAINS
- PAVED FLUMES
- ROCK BEDDING AT CONSTRUCTION EXIT
- TIMBER MATTING AT CONSTRUCTION EXIT
- CHANNEL LINERS
- SEDIMENT TRAPS
- SEDIMENT BASINS
- STORM INLET SEDIMENT TRAP
- STONE OUTLET STRUCTURES
- CURBS AND GUTTERS
- STORM SEWERS
- VELOCITY CONTROL DEVICES

NARRATIVE - SEQUENCE OF CONSTRUCTION (STORM WATER MANAGEMENT) ACTIVITIES: The order of activities will be as follows:

- Install controls.
- Clear, grub and excavate.
- Haul in fill.
- When all construction activity is complete and the site is stabilized and approved by the project engineer, remove all temporary structural controls and reseed any area disturbed by their removal.

pollution prevention plan.

STORM WATER MANAGEMENT: Storm water drainage will be conveyed by overland flow.

NON-STORM WATER DISCHARGE: None.

OTHER EROSION AND SEDIMENT CONTROLS:

MAINTENANCE: All erosion and sediment controls will be maintained in good working order. If a repair is necessary, it will be done at the earliest date possible, but no later than 7 calendar days after the surrounding exposed ground has dried sufficiently to prevent further damage from heavy equipment. The areas adjacent to creeks and drainage ways shall have priority followed by devices protecting storm sewer inlets.

INSPECTION: An inspection will be performed by a CITY inspector every week as well as every half inch or more of rain (as recorded on a non-freezing rain gauge to be located at the Project Site). An inspection and Maintenance Report will be made per each inspection. Based on the inspection results, the controls shall be revised per the inspection report.

WASTE MATERIALS: All waste materials will be collected and stored in a securely lidded metal dumpster. The dumpster will meet all state and local city solid waste management regulations. All trash and construction debris from the site will be deposited in the dumpster. The dumpster will be emptied as necessary or as required by local regulations and the trash will be hauled to a local dump. No construction waste material will be buried on site.

HAZARDOUS WASTE (INCLUDING SPILL REPORTING): At a minimum, any products in the following categories are considered to be hazardous: paints, acids for cleaning, masonry surfaces, cleaning solvents, asphalt products, chemical additives for soil stabilization or concrete curing compounds and additives. In the event of a hazardous material spill, the spill coordinator shall be contacted immediately.

SANITARY WASTE: All sanitary waste will be collected from portable units as necessary, or as required by local regulations by a Licensed Sanitary Waste Management Contractor.

OFFSITE VEHICLE TRACKING:

- HAIL ROADS DAMPENED FOR DUST CONTROL
- LOADED HAUL TRUCKS TO BE COVERED WITH TARPULIN
- EXCESS DIRT ON ROAD REMOVED DAILY
- STABILIZED CONSTRUCTION ENTRANCE

PERMITS:

REMARKS: Disposal areas, stockpiles, and haul roads shall be constructed in a manner that will minimize and control the amount of sediment that may enter receiving waters. Disposal areas shall not be located in any wetland, waterbody or streambed. Construction staging areas and vehicle maintenance areas shall be constructed by the Contractor in a manner to minimize the runoff of pollutants.

CONTRACTOR'S CERTIFICATION

I certify under penalty of law that I understand the terms and conditions of the general Texas Pollutant Discharge Elimination System (TPDES) permit that authorizes the storm water discharges associated with industrial activity from the construction site identified as part of this certification plan.

SIGNATURE (CONTRACTOR) _____ DATE _____

OWNERS CERTIFICATION

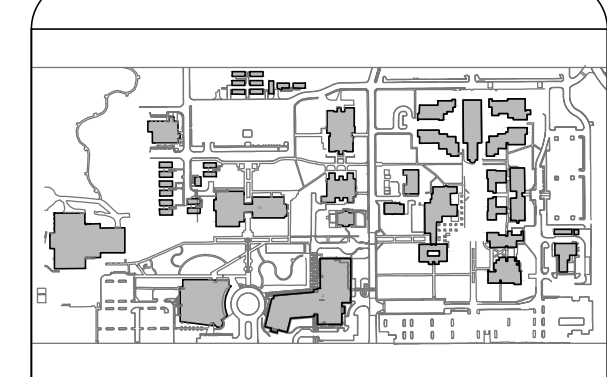
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

SIGNATURE _____ DATE _____

**ACD Palo Alto College
Hydronic Piping Replacement**

1400 West Villaret
San Antonio, Texas, 78224

ISSUE FOR CONSTRUCTION



KEY MAP PLAN TRUE NORTH NORTH NORTH



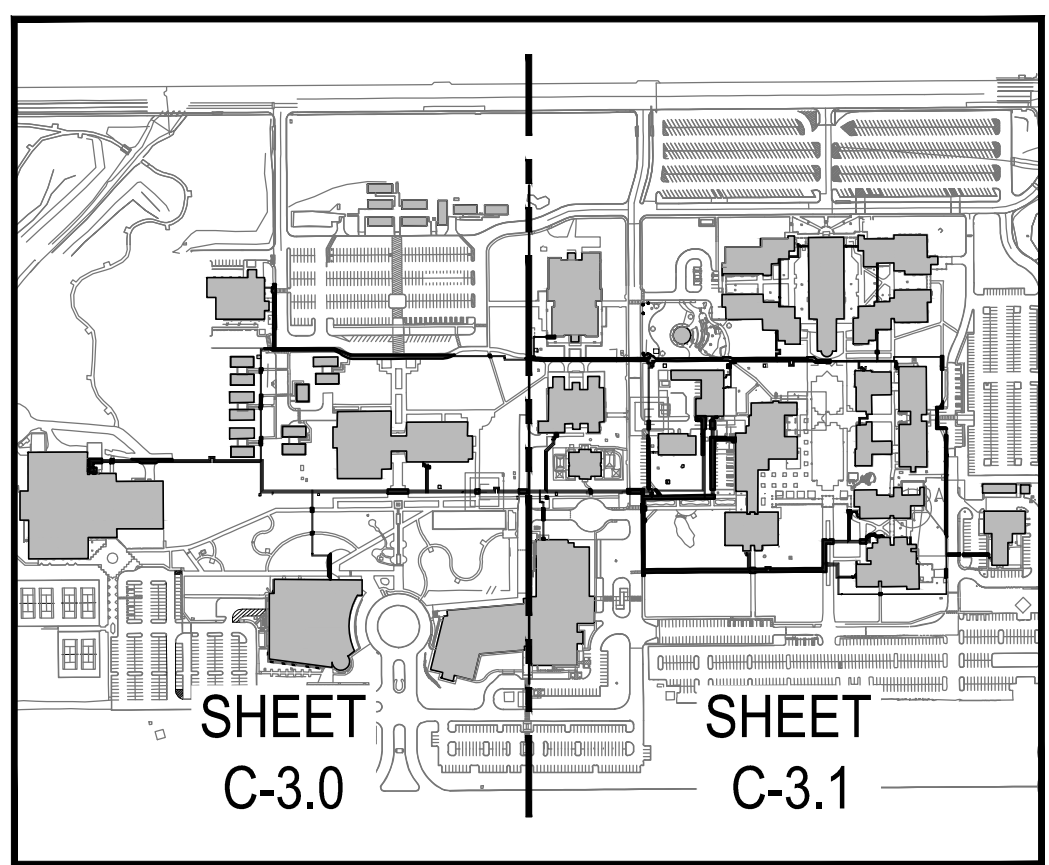
CLIENT ACD PALO ALTO COLLEGE		
PROJECT NUMBER C-1613		
DATE:	05/11/2023	
DRAWN BY:	M.L.	
CHECKED BY:	L.C.	
REVISIONS		
No.	Description	Date

ISSUE FOR CONSTRUCTION

STORM WATER POLLUTION PREVENTION PLAN 1

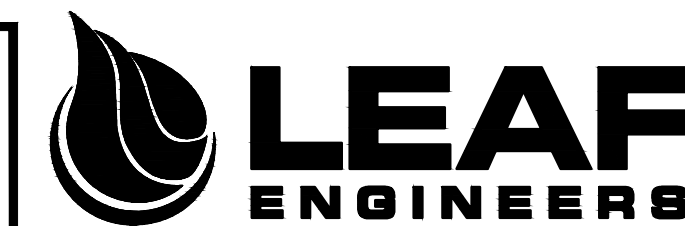
C-3.0

Drawn by: M.L. (M.L. 22222) / Checked by: L.C. (L.C. 22222) / Date: 05/11/2023 / Project: ACD Palo Alto College Hydronic Piping Replacement / Sheet: C-3.0

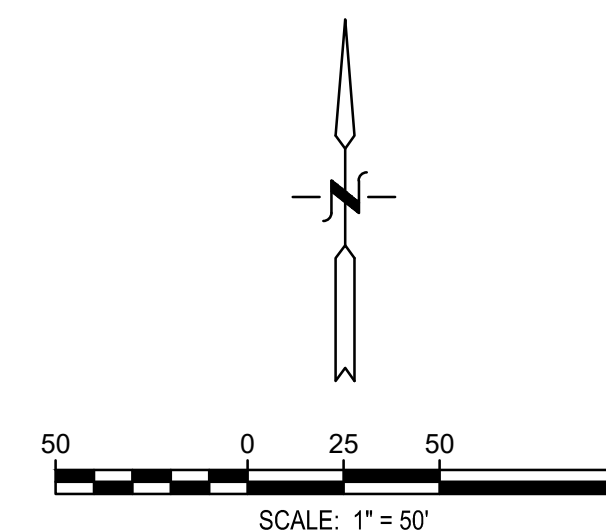


KEY MAP
N.T.S.

PREPARED BY:
BAIN MEDINA BAIN, INC.
ENGINEERS & SURVEYORS
7073 San Pedro Avenue
San Antonio, Texas 78216
210-494-7223
TBPFS Registration No. F-1712
TBPFS Registration No. 10020900

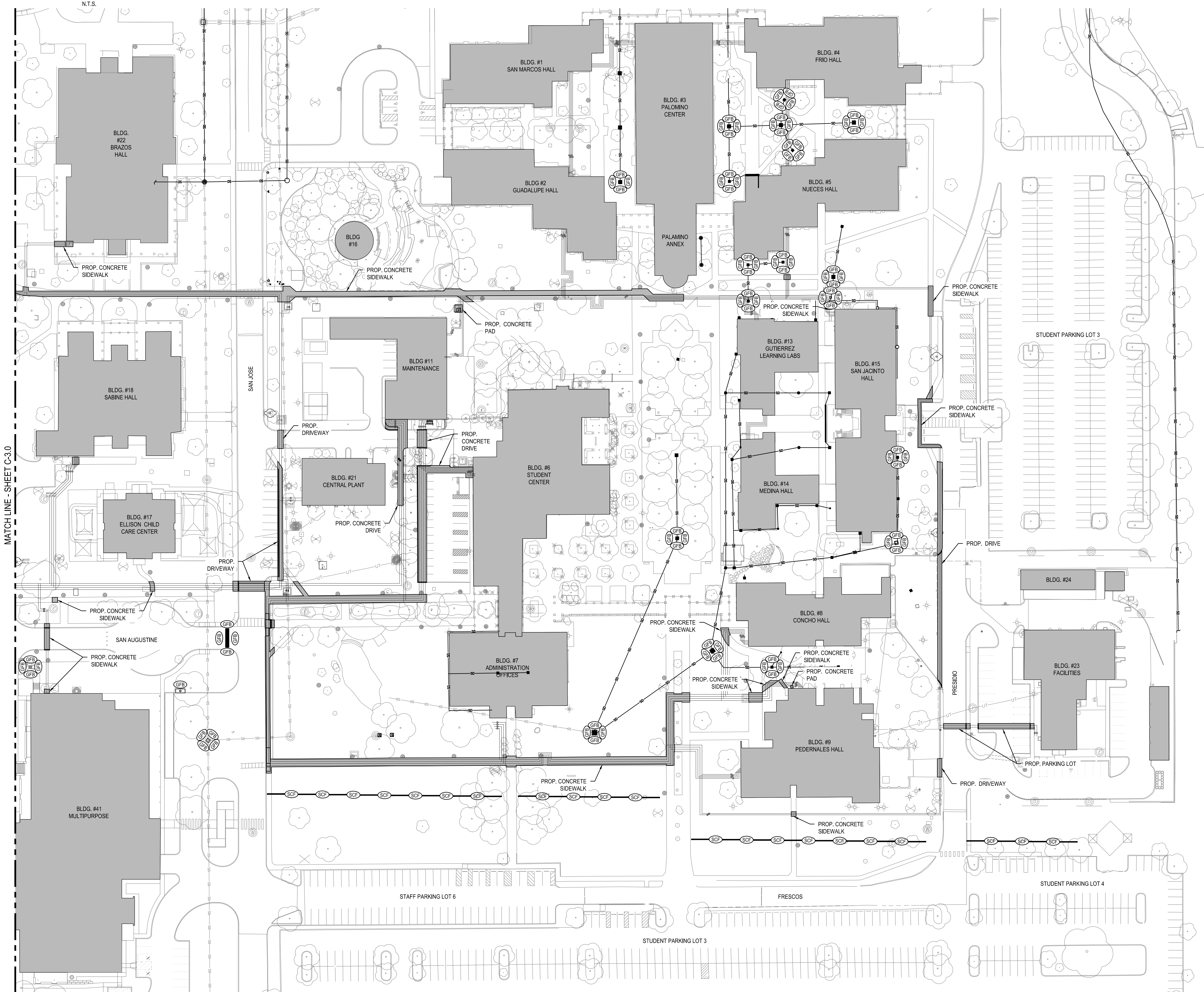


MEPT	San Antonio 601 NW LOOP 410, Suite 460, San Antonio, TX 78216 210-438-7200 P 210-424-6376 F TX Firm: F-18672 leafengineers.com	ALAMO COLLEGE DISTRICT
OWNER	2222 NORTH ALAMO STREET SAN ANTONIO, TEXAS 78216 210-560-3000 P	
ARCHITECT	601 NW LOOP 410, SUITE 400 SAN ANTONIO, TEXAS 78216 210-560-3000 P	PKM ARCHITECTS
CIVIL SURVEYOR	7073 SAN PEDRO SAN ANTONIO, TEXAS 78216 210-494-7223 P	SAN MEDINA BAIN
LANDSCAPE	601 NW LOOP 410, SUITE 400 SAN ANTONIO, TEXAS 78216 210-460-0989 P	EDGE LAND GROUP



LEGEND

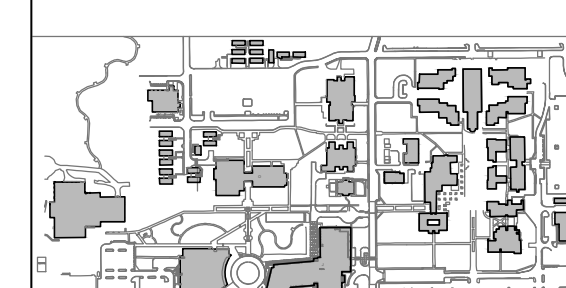
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- EXISTING GUY WIRE
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- EXISTING CONTOURS
- EXISTING WOOD FENCE
- SILT CONTROL FENCE
- GRAVEL FILTER BAG
- CONSTRUCTION ENTRANCE
- ROCK FILTER DAM



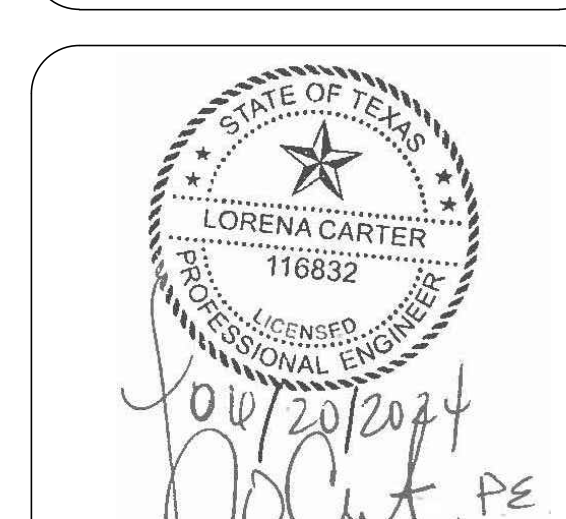
**ACD Palo Alto College
Hydronic Piping Replacement**

1400 West Villaret
San Antonio, Texas, 78224

ISSUE FOR CONSTRUCTION



KEY PLAN PLAN TRUE NORTH NORTH



CLIENT	ACD PALO ALTO COLLEGE
PROJECT NUMBER	C-1613
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DRAWN BY:	M.L.
CHECKED BY:	L.C.

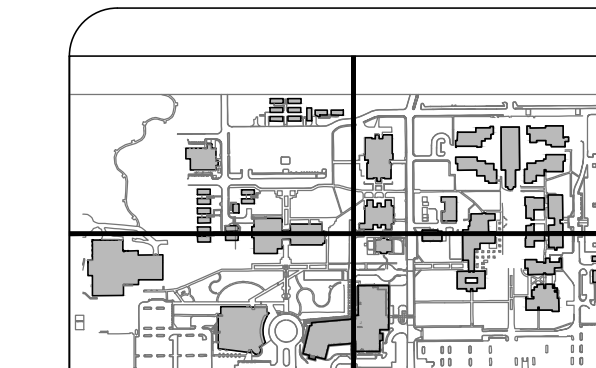
No.	Description	Date

ISSUE FOR CONSTRUCTION
STORM WATER POLLUTION PREVENTION PLAN 2
C-3.1

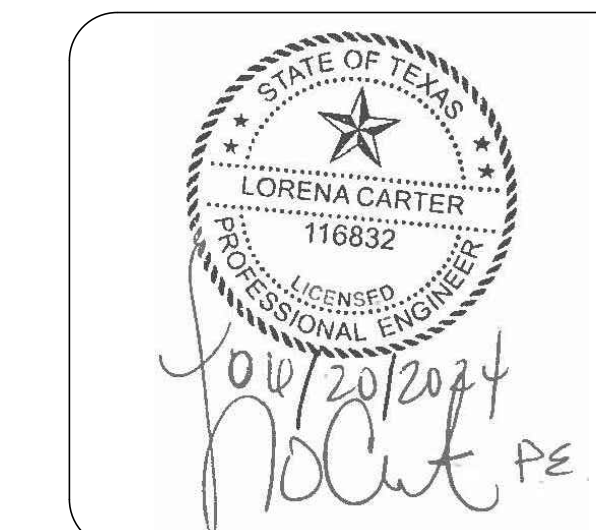
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**ACD Palo Alto College
 Hydronic Piping Replacement**

1400 West Villaret
 San Antonio, Texas, 78224
 ISSUE FOR CONSTRUCTION



KEY PLAN	PLAN NORTH	TRUE NORTH
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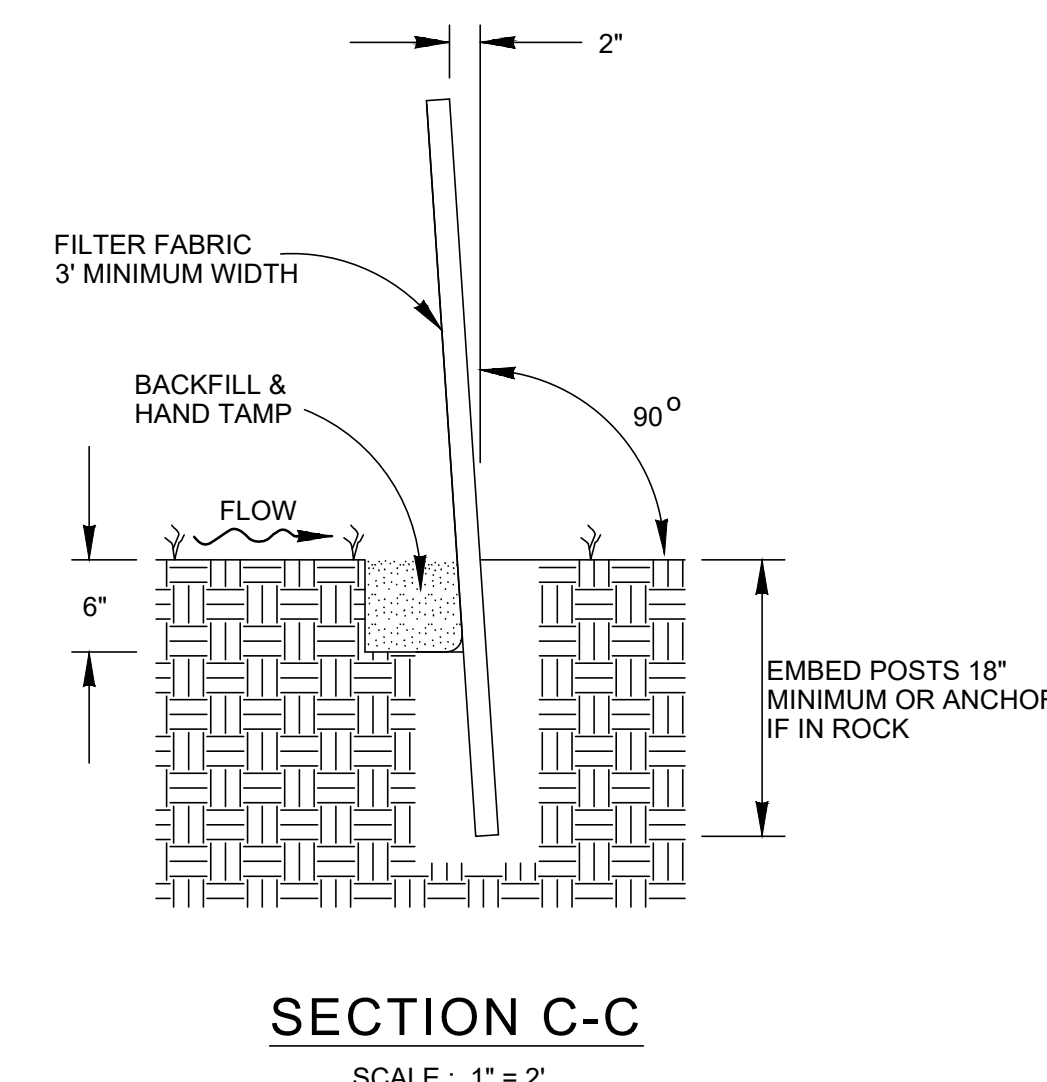
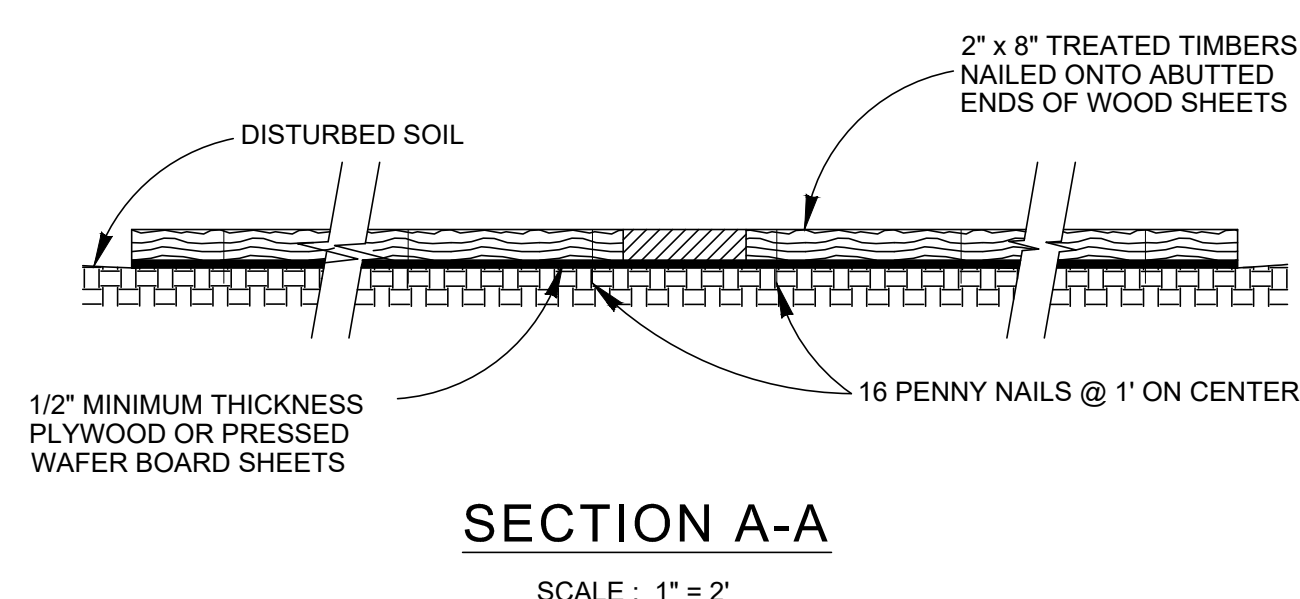
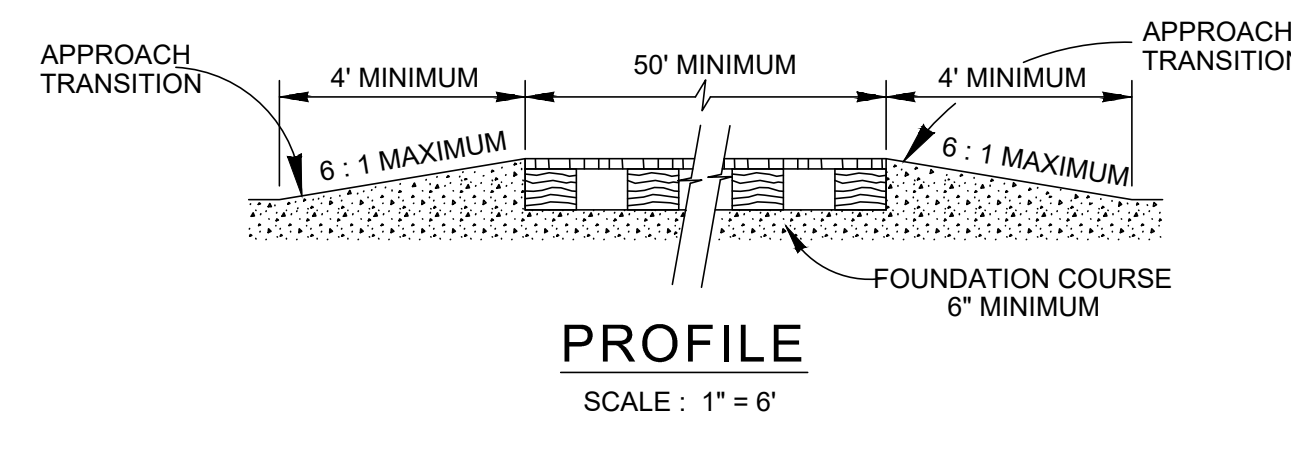
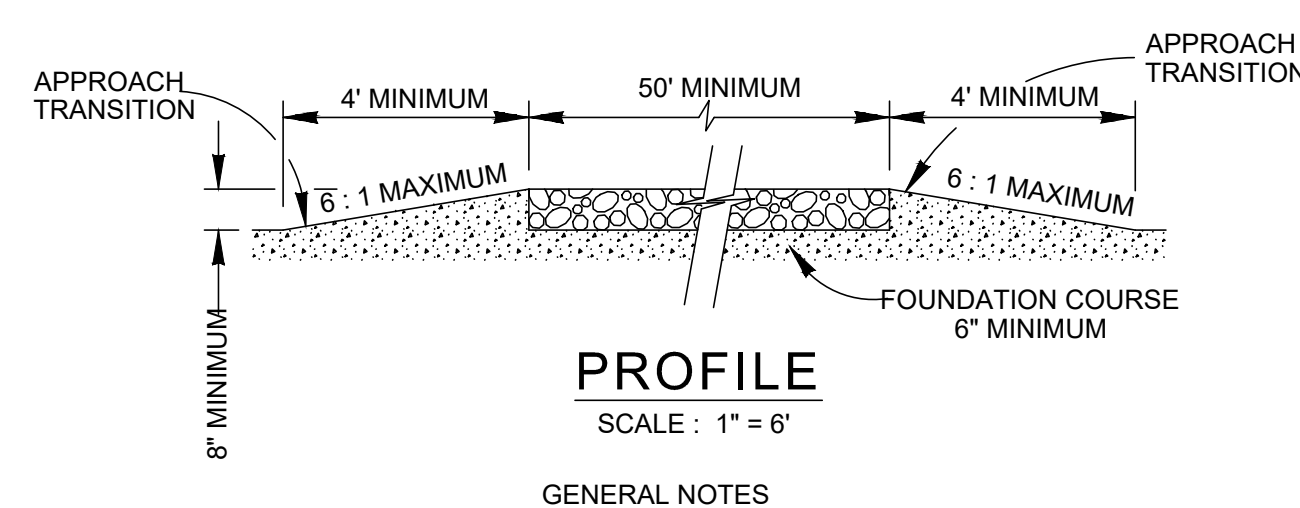
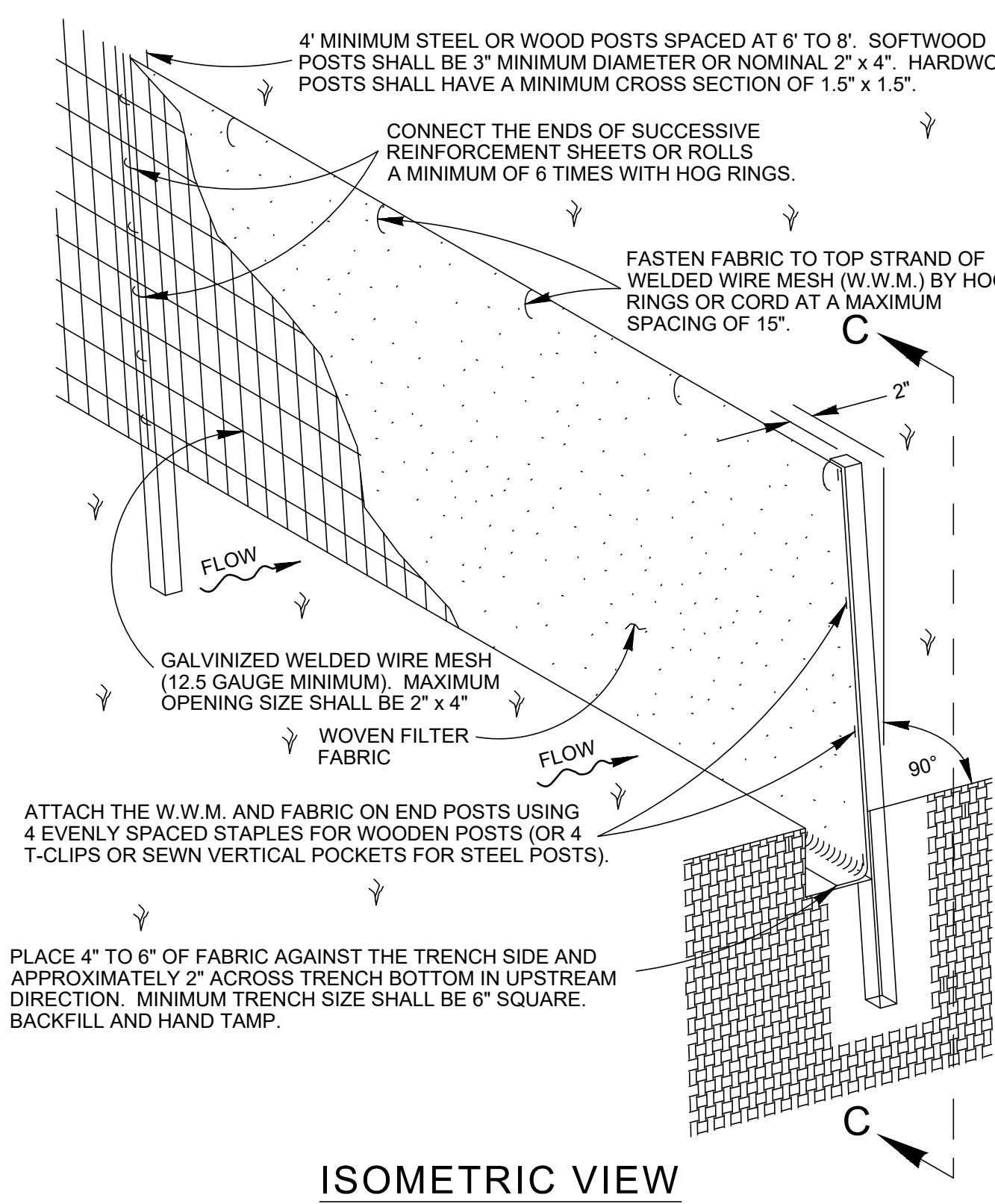
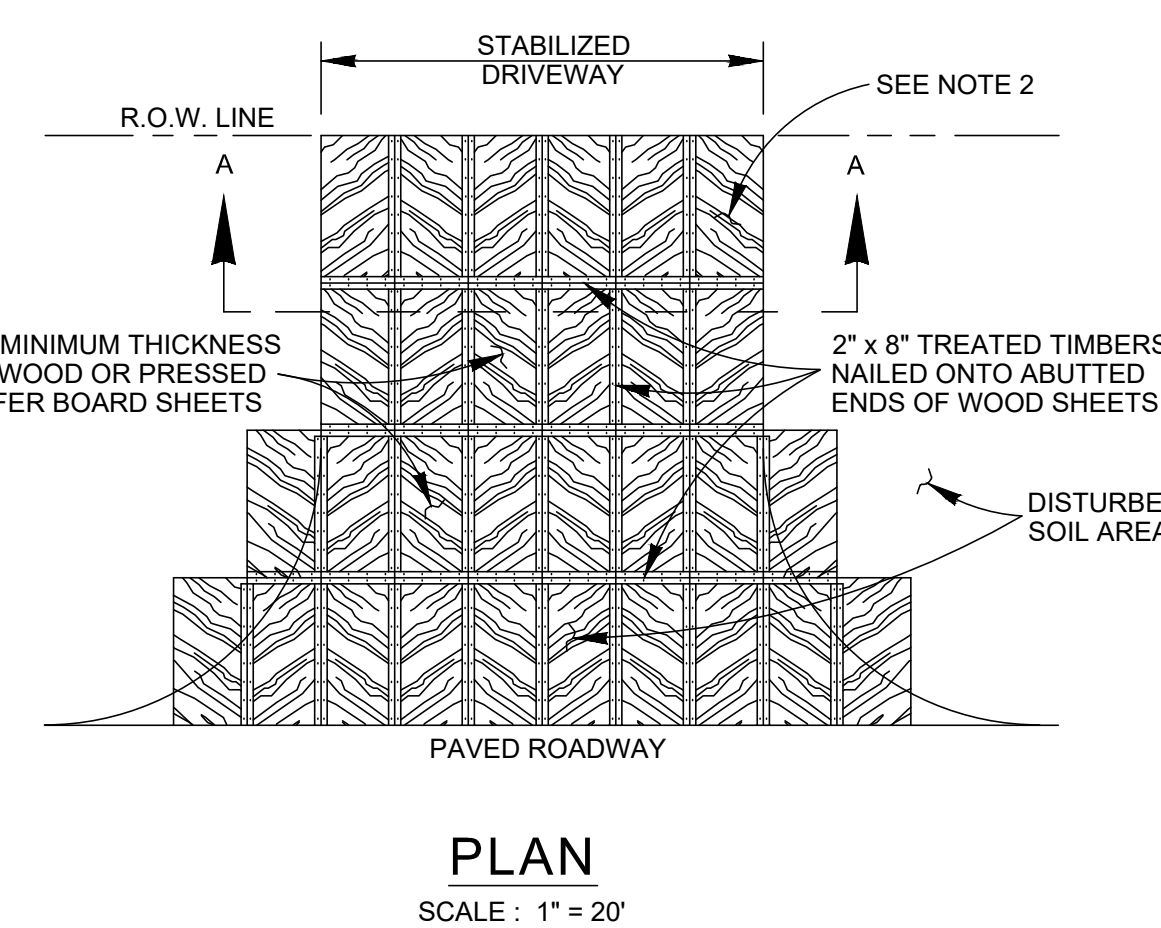
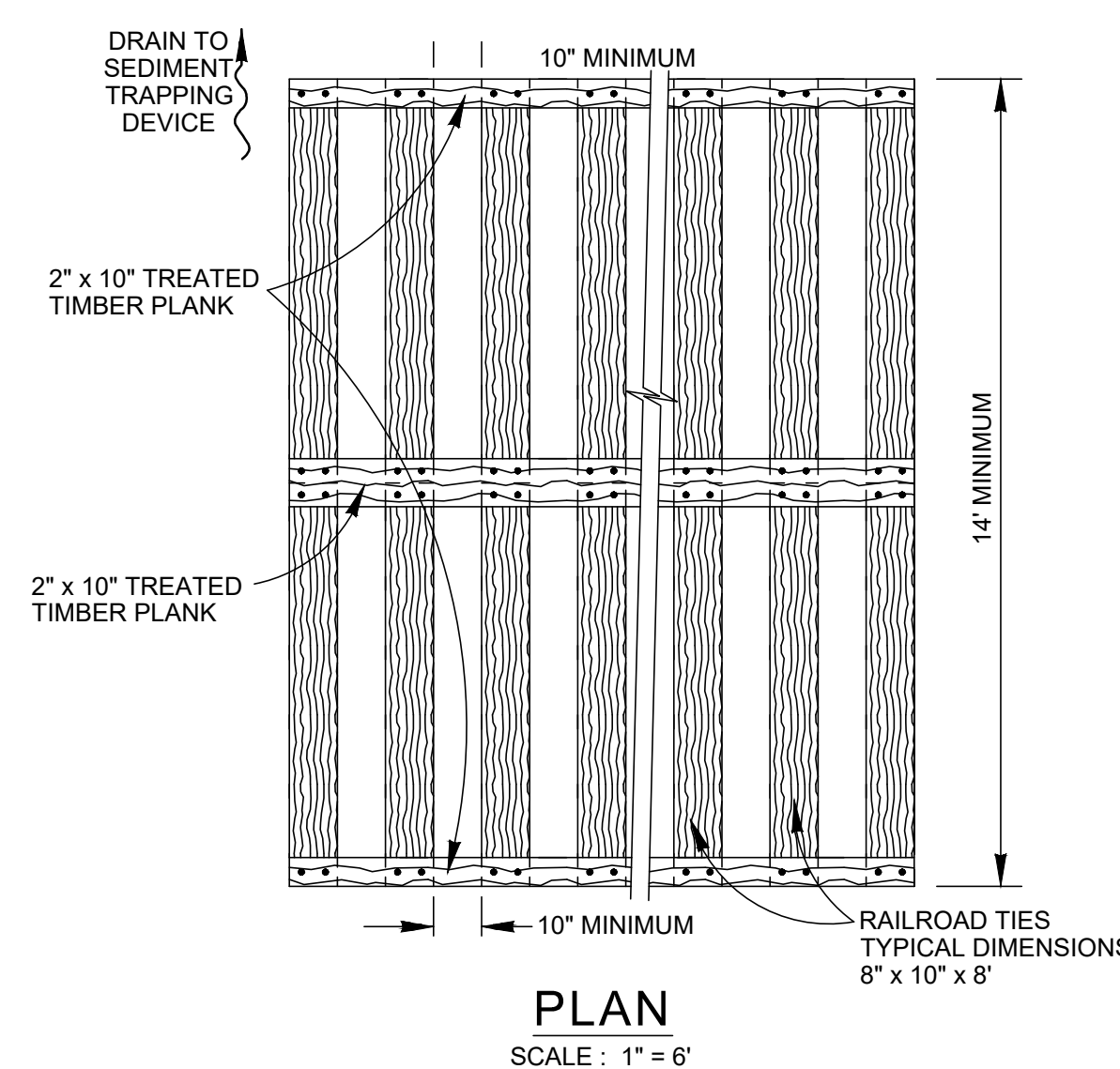
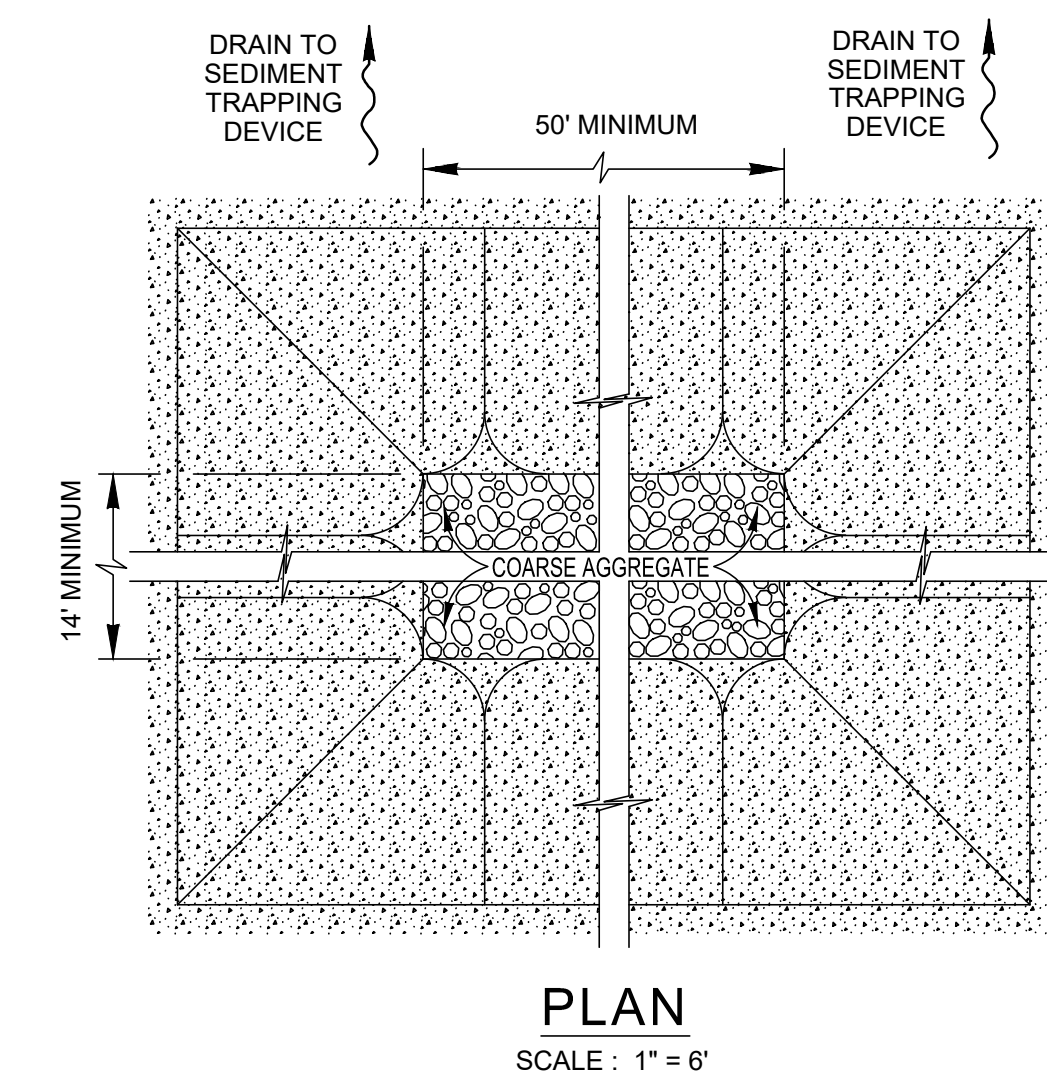


CLIENT: ACD PALO ALTO COLLEGE		
PROJECT NUMBER: C-1613		
DATE: 05/11/2023		
DRAWN BY: M.L.		
CHECKED BY: L.C.		
REVISIONS		
No.	Description	Date

ISSUE FOR CONSTRUCTION

STORM WATER POLLUTION PREVENTION PLAN DETAILS 1

C-3.2



- GENERAL NOTES**
1. THE LENGTH OF THE TYPE 1 CONSTRUCTION EXIT SHALL BE AS INDICATED ON THE PLANS, BUT NOT LESS THAN 50'.
 2. THE COARSE AGGREGATE SHOULD BE OPEN GRADED WITH A SIZE OF 4" TO 8".
 3. THE APPROACH TRANSITIONS SHOULD BE NO STEEPER THAN 6 : 1 AND CONSTRUCTED AS DIRECTED BY THE ENGINEER.
 4. THE CONSTRUCTION EXIT FOUNDATION COURSE SHALL BE FLEXIBLE BASE, BITUMINOUS CONCRETE, PORTLAND CEMENT CONCRETE OR OTHER MATERIAL AS APPROVED BY THE ENGINEER.
 5. THE CONSTRUCTION EXIT SHALL BE GRADED TO ALLOW DRAINAGE TO A SEDIMENT TRAPPING DEVICE.
 6. THE GUIDELINES SHOWN HEREON ARE SUGGESTIONS ONLY AND MAY BE MODIFIED BY THE ENGINEER.

- GENERAL NOTES**
1. THE LENGTH OF THE TYPE 2 CONSTRUCTION EXIT SHALL BE AS INDICATED ON THE PLANS, BUT NOT LESS THAN 50'.
 2. THE TREATED TIMBER PLANKS SHALL BE ATTACHED TO THE RAILROAD TIES WITH 1 / 2" x 6" MIN. LAG BOLTS. OTHER FASTENERS MAY BE USED AS APPROVED BY THE ENGINEER.
 3. THE TREATED TIMBER PLANKS SHALL BE #2 GRADE MIN., AND SHOULD BE FREE FROM LARGE AND LOOSE KNOTS.
 4. THE APPROACH TRANSITIONS SHOULD BE NO STEEPER THAN 6 : 1 AND CONSTRUCTED AS DIRECTED BY THE ENGINEER.
 5. THE CONSTRUCTION EXIT FOUNDATION COURSE SHALL BE FLEXIBLE BASE, BITUMINOUS CONCRETE, PORTLAND CEMENT CONCRETE OR OTHER MATERIAL AS APPROVED BY THE ENGINEER.
 6. THE CONSTRUCTION EXIT SHOULD BE GRADED TO ALLOW DRAINAGE TO A SEDIMENT TRAPPING DEVICE.
 7. THE GUIDELINES SHOWN HEREON ARE SUGGESTIONS ONLY AND MAY BE MODIFIED BY THE ENGINEER.

- GENERAL NOTES**
1. THE LENGTH OF THE TYPE 3 CONSTRUCTION EXIT SHALL BE AS INDICATED ON THE PLANS, OR AS DIRECTED BY THE ENGINEER.
 2. THE TYPE 3 CONSTRUCTION EXIT MAY BE CONSTRUCTED FROM OPEN GRADED CRUSHED STONE WITH A SIZE OF 2 TO 4 INCHES SPREAD A MINIMUM OF 4 INCHES THICK TO THE LIMITS SHOWN ON THE PLANS.
 3. THE TREATED TIMBER PLANKS SHALL BE #2 GRADE MIN., AND SHOULD BE FREE FROM LARGE AND LOOSE KNOTS.
 4. THE GUIDELINES SHOWN HEREON ARE SUGGESTIONS ONLY AND MAY BE MODIFIED BY THE ENGINEER.

CONSTRUCTION EXIT - TYPE 1

CONSTRUCTION EXIT - TYPE 2

CONSTRUCTION EXIT - TYPE 3

SEDIMENT CONTROL FENCE USAGE GUIDELINES

A SEDIMENT CONTROL FENCE MAY BE CONSTRUCTED NEAR THE DOWNSTREAM PERIMETER OF A DISTURBED AREA ALONG A CONTOUR TO INTERCEPT SEDIMENT FROM OVERLAND RUN-OFF. A 2-YEAR STORM FREQUENCY MAY BE USED TO CALCULATE THE FLOW RATE TO BE FILTERED.

SEDIMENT CONTROL FENCE SHOULD BE SIZED TO FILTER A MAXIMUM FLOW THRU RATE OF 100 GPM / FT SQUARED. SEDIMENT CONTROL FENCE IS NOT RECOMMENDED TO CONTROL EROSION FROM A DRAINAGE AREA LARGER THAN 2 ACRES.

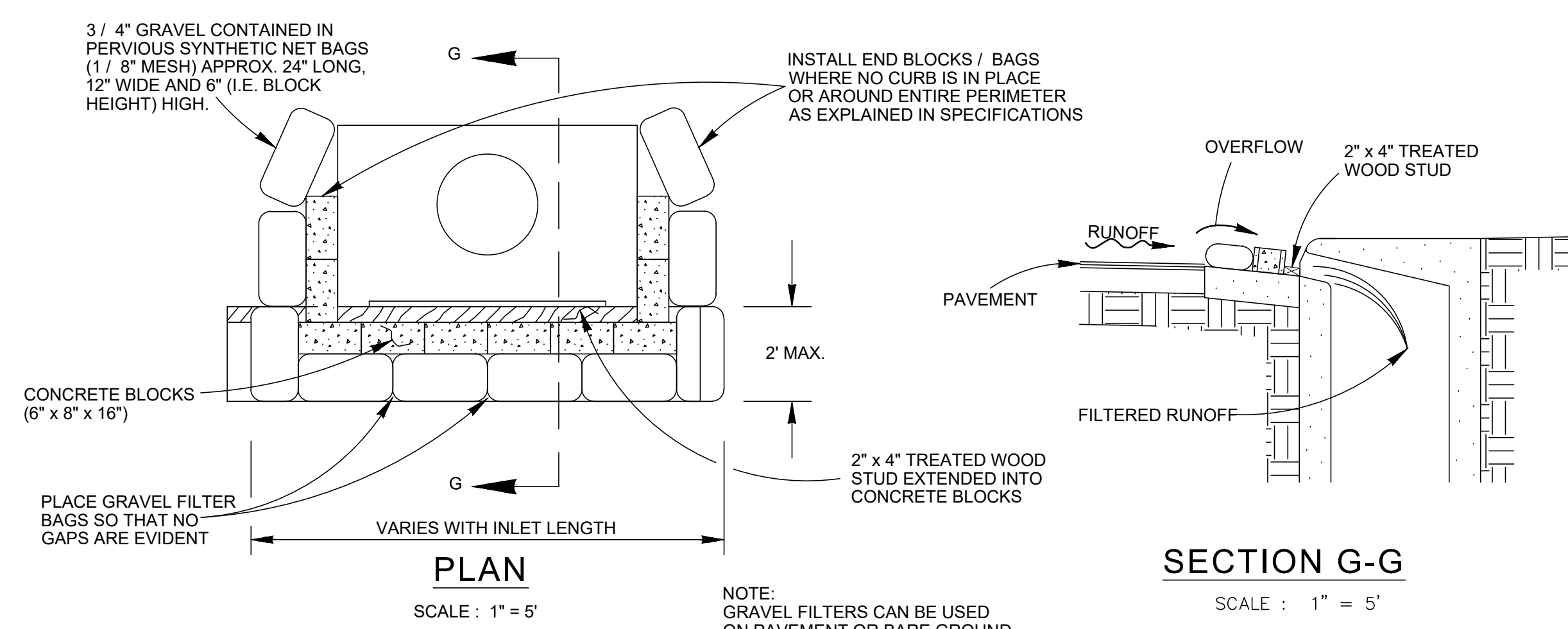
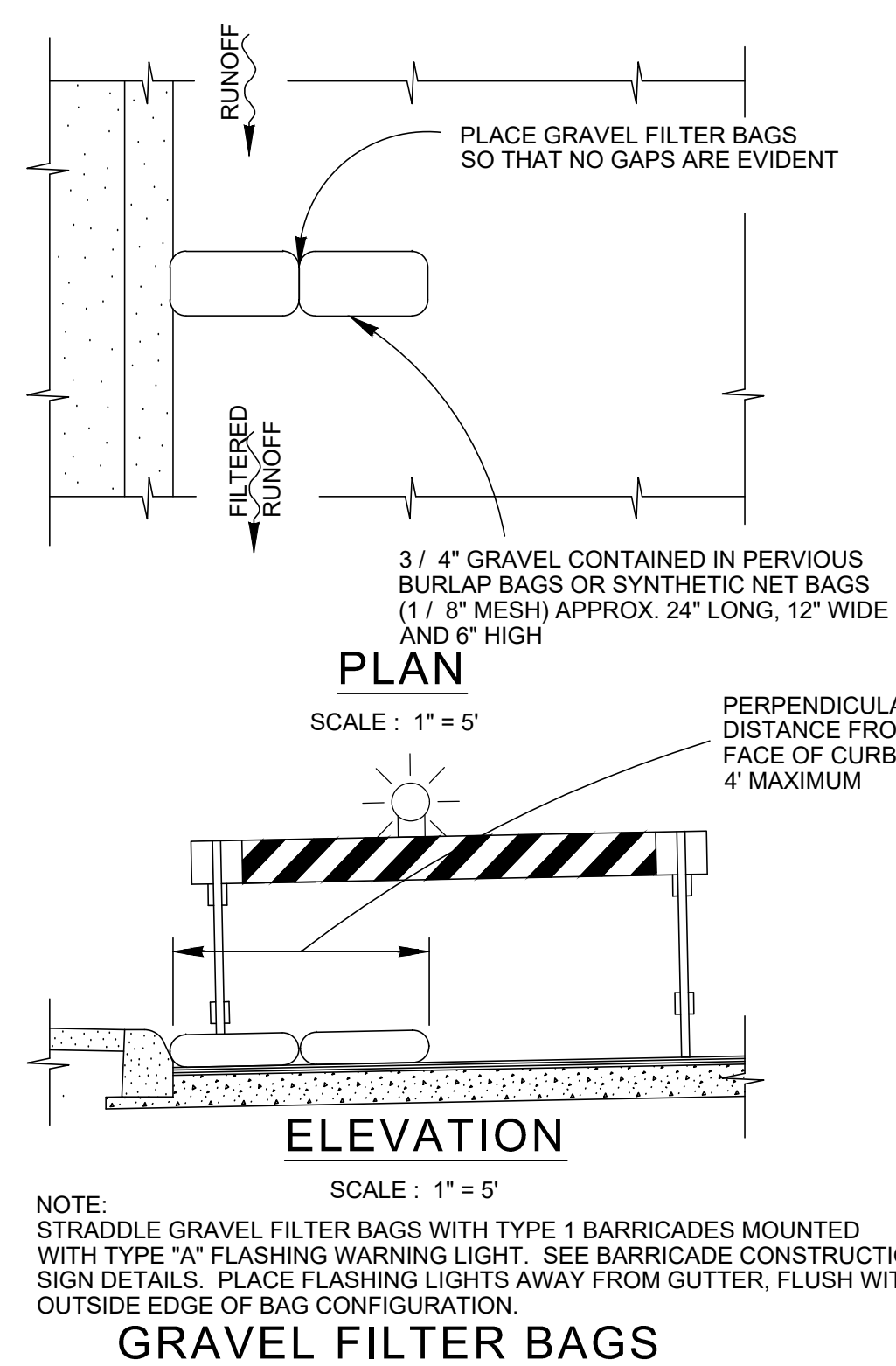
GENERAL NOTES

1. THE GUIDELINES SHOWN HEREON ARE SUGGESTIONS ONLY AND MAY BE MODIFIED BY THE ENGINEER.

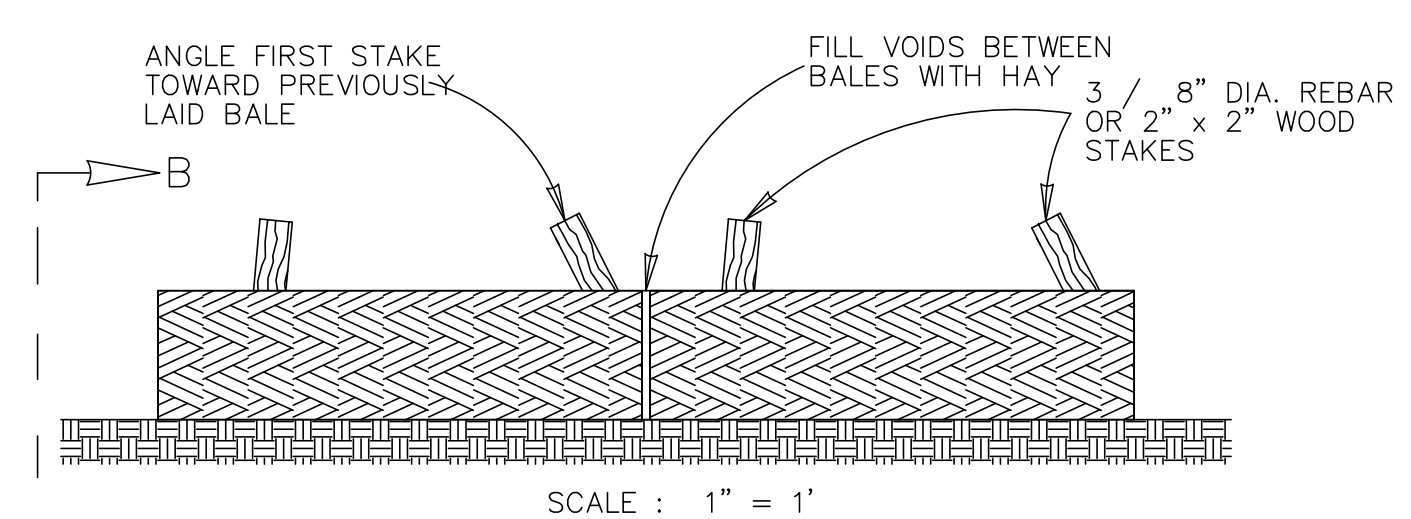
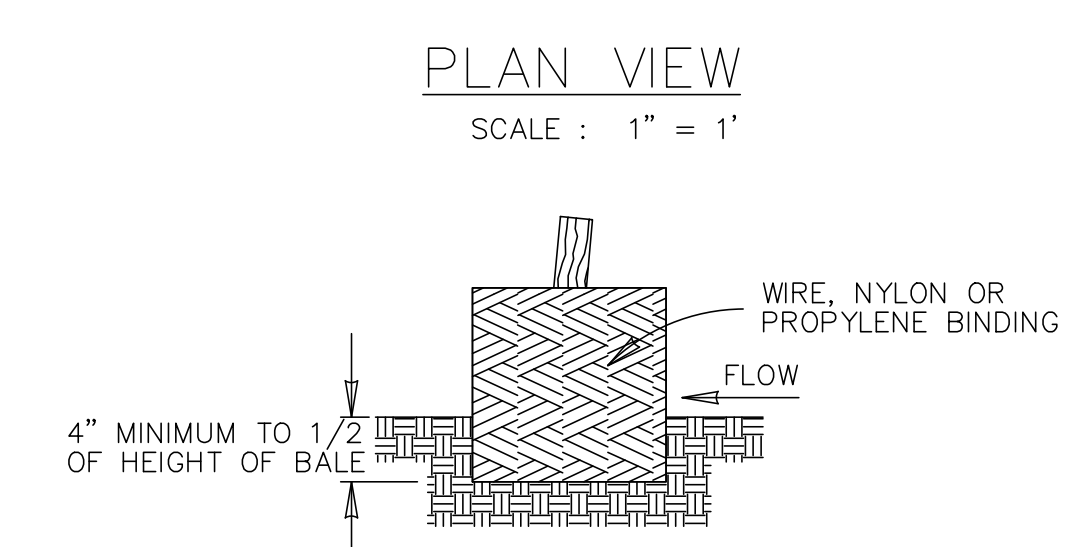
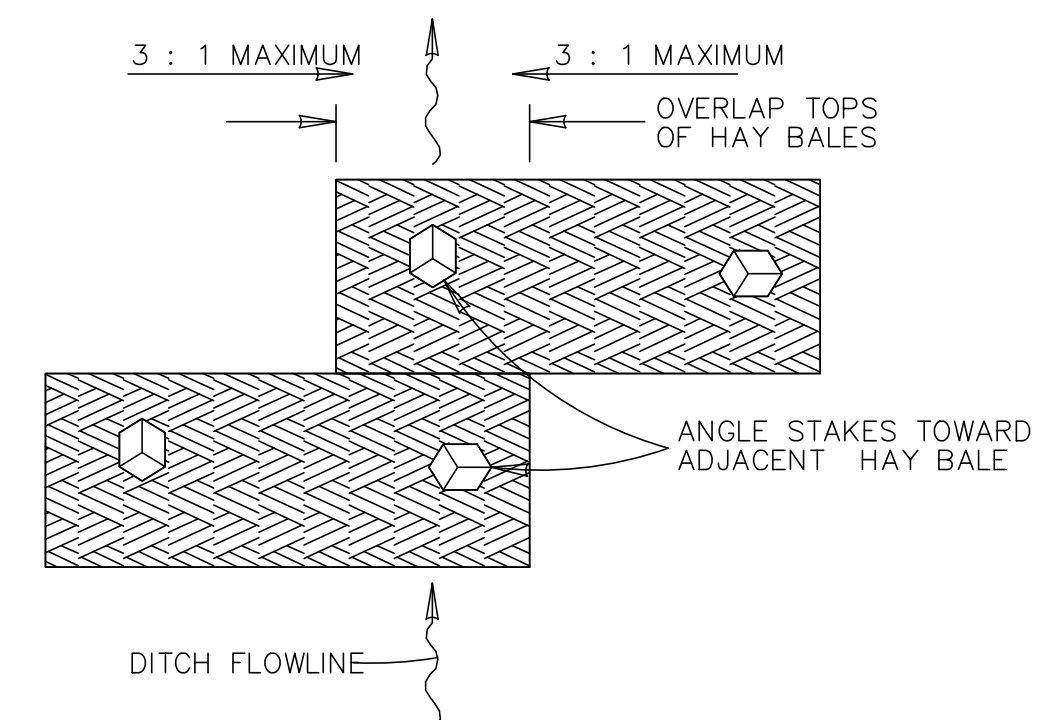
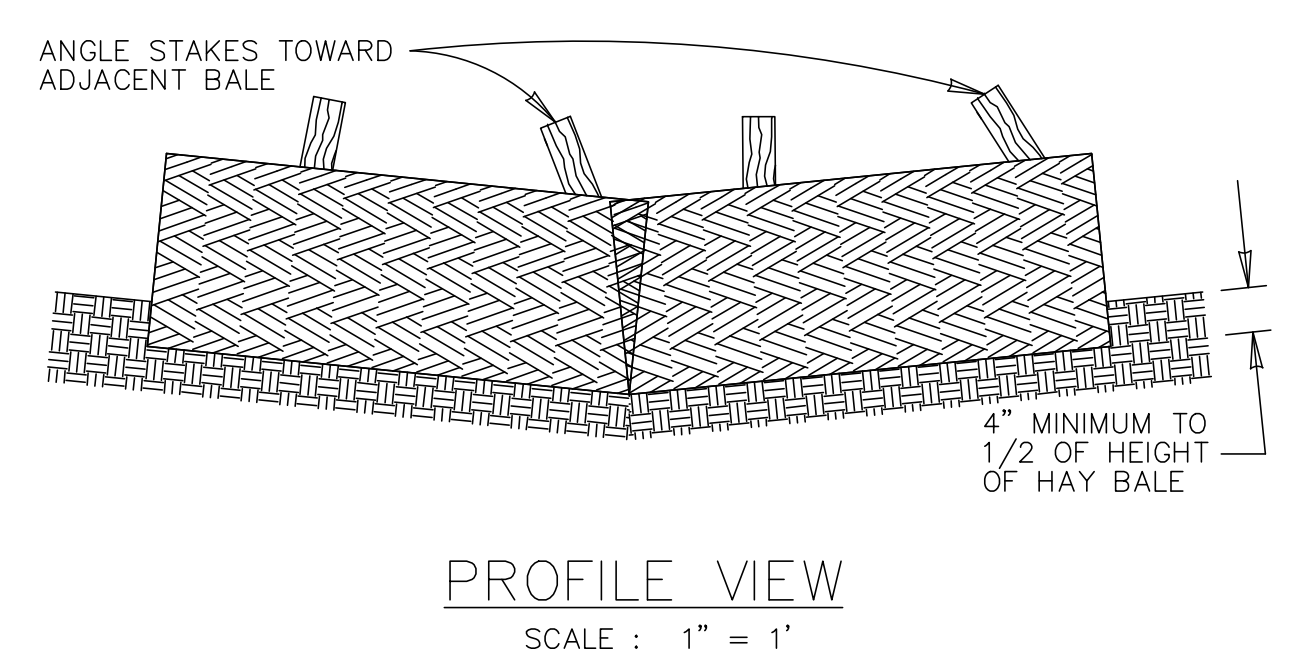
TEMPORARY SEDIMENT CONTROL FENCE

JANUARY 2005
 CITY OF SAN ANTONIO
 CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT
TEMPORARY EROSION, SEDIMENT & WATER POLLUTION CONTROL MEASURES STANDARDS 1

% SUBMITTAL	PROJECT NO.:	DATE:
DRWN. BY:	DSGN. BY:	CHKD. BY:
		SHEET NO. OF



MEPT	LEAF Engineers
OWNER	ALAMO COLLEGE DISTRICT 601 NW LOOP 410, Suite 400, San Antonio, TX 78216 210-494-5376 F TX Firm: F-18672 leafengineers.com
ARCHITECT	2222 NORTH ALAMO STREET SAN ANTONIO, TEXAS 78215 210-550-3000 F 210-550-0000 F
CIVIL SURVEYOR	601 NW LOOP 410, SUITE 400 SAN ANTONIO, TEXAS 78216 210-494-7223 F 210-494-0274 F
LANDSCAPE	7073 SAN PEDRO SAN ANTONIO, TEXAS 78216 210-494-7223 F 210-494-0274 F
	601 NW LOOP 410, SUITE 400 SAN ANTONIO, TEXAS 78216 210-494-5376 F 210-494-0274 F



A BALED HAY INSTALLATION MAY BE CONSTRUCTED NEAR THE DOWNSTREAM PERIMETER OF A DISTURBED AREA ALONG A CONTOUR TO INTERCEPT SEDIMENT FROM OVERLAND RUNOFF. A TWO YEAR STORM FREQUENCY MAY BE USED TO CALCULATE THE FLOW RATE TO BE FILTERED. THE INSTALLATION SHOULD BE SIZED TO FILTER A MAXIMUM FLOW THRU RATE OF 5 GPM / FT SQUARED OF CROSS SECTIONAL AREA. BALED HAY MAY BE USED AT THE FOLLOWING LOCATIONS:

- WHERE THE RUNOFF APPROACHING THE BALED HAY FLOWS OVER DISTURBED SOIL FOR LESS THAN 100'. IF THE SLOPE OF THE DISTURBED SOIL EXCEEDS 10%, THE LENGTH OF SLOPE UPSTREAM OF THE BALED HAY SHOULD BE LESS THAN 50'.
- WHERE THE INSTALLATION WILL BE REQUIRED FOR LESS THAN 3 MONTHS.
- WHERE THE CONTRIBUTING DRAINAGE AREA IS LESS THAN 1 / 2 ACRE.

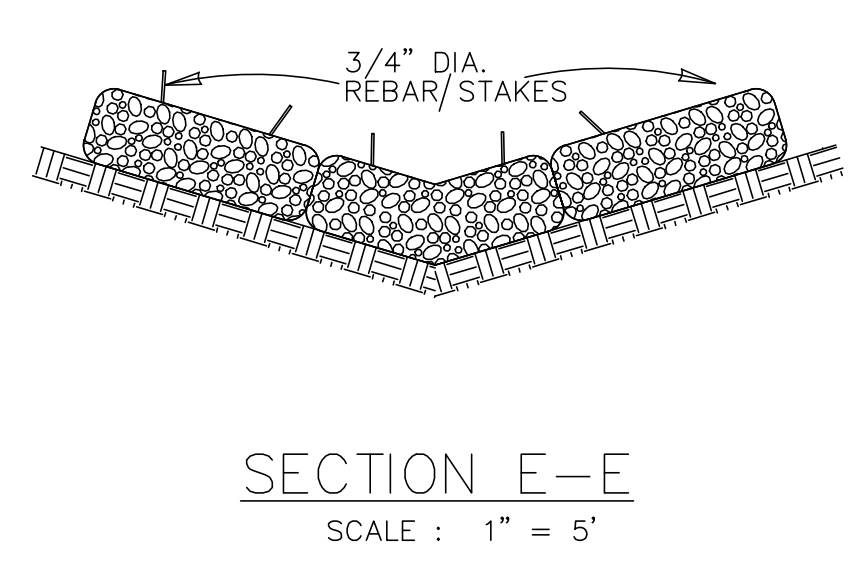
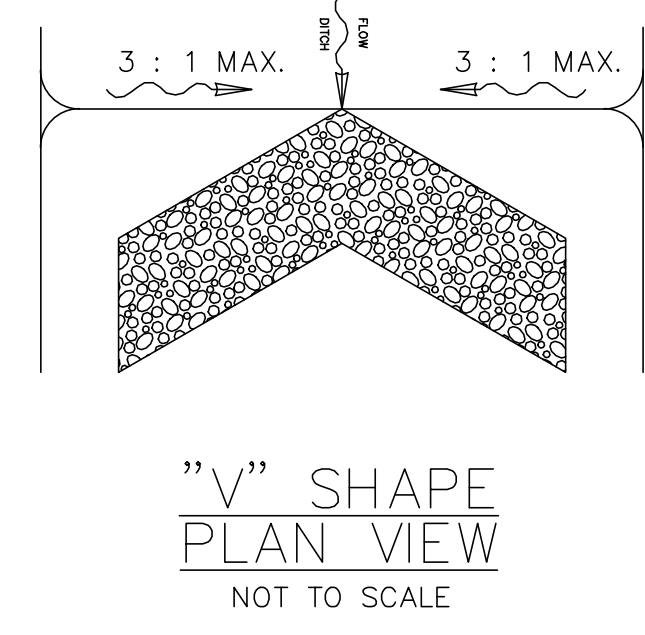
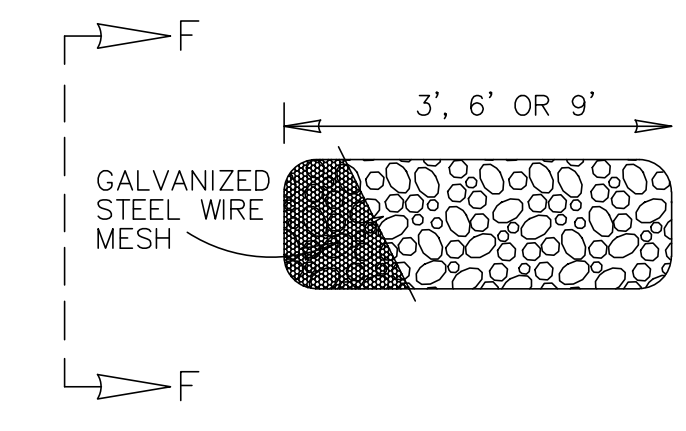
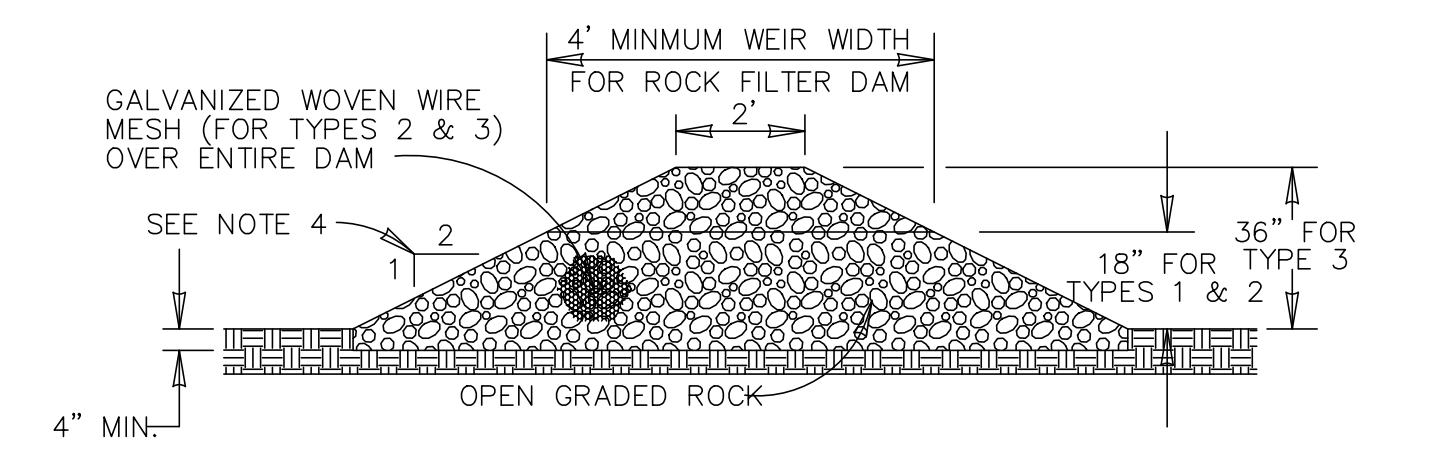
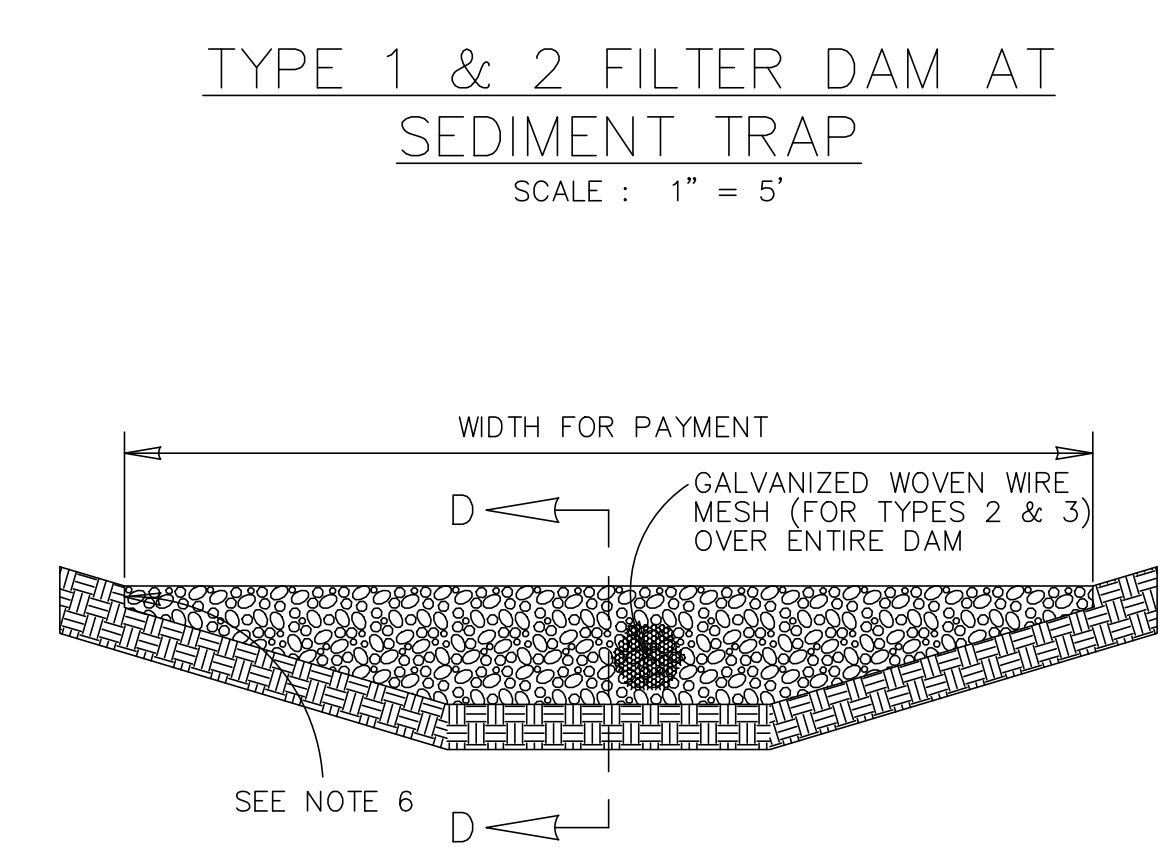
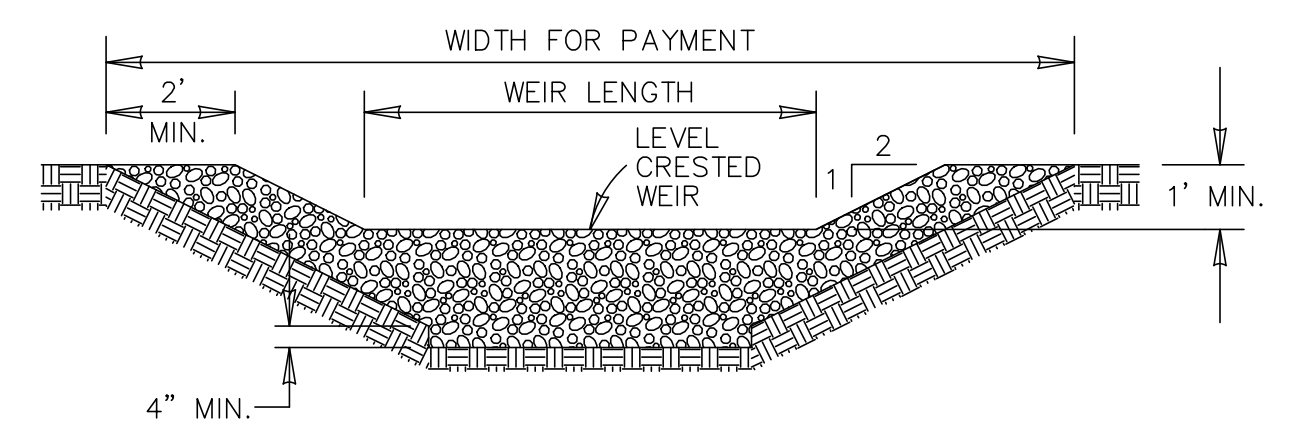
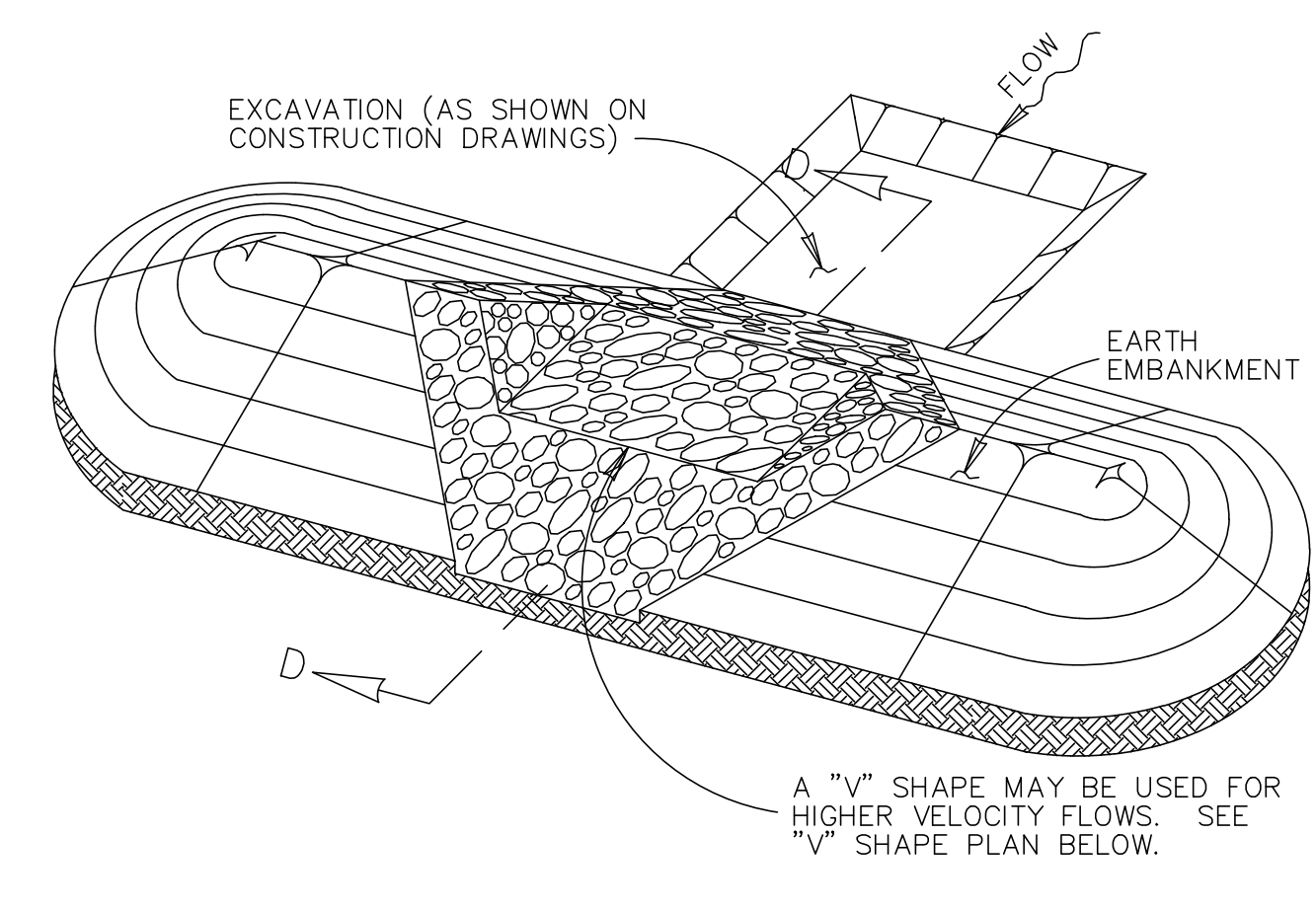
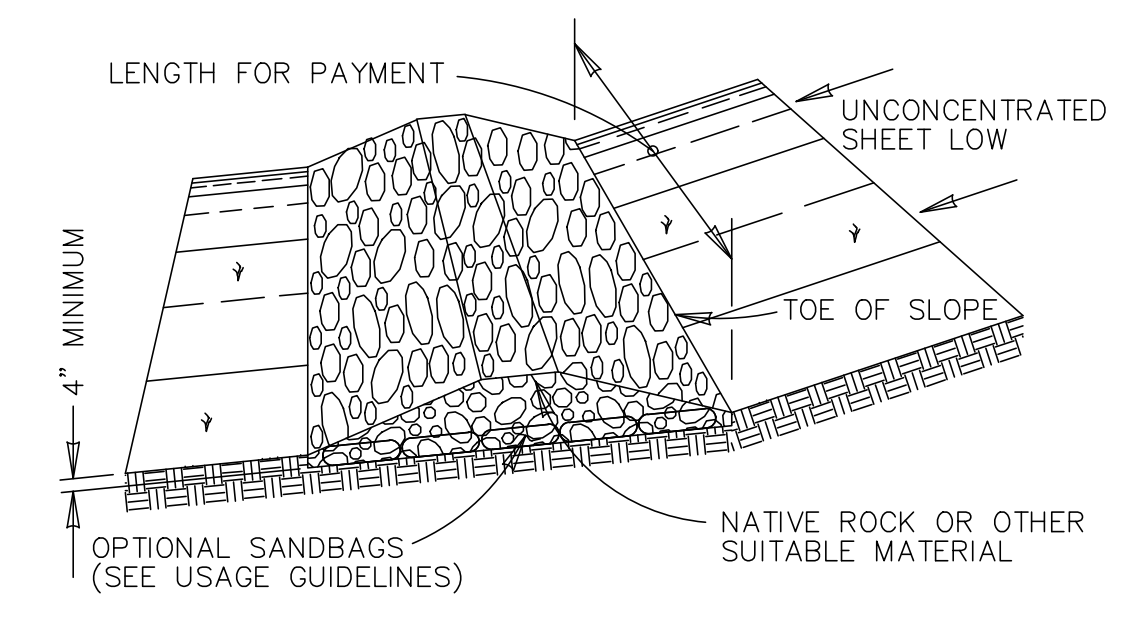
FOR BALED HAY INSTALLATIONS IN SMALL DITCHES, THE FOLLOWING ADDITIONAL CONDI-TIONAL CONSIDERATIONS APPLY:

- THE DITCH SIDESLOPES SHOULD BE GRADED AS FLAT AS POSSIBLE TO MAXIMIZE THE DRAINAGE FLOW RATE THRU THE HAY.
- THE DITCH SHOULD BE GRADED LARGE ENOUGH TO CONTAIN THE OVERLAPPING DRAINAGE WHEN SEDIMENT HAS FILLED TO THE TOP OF THE BALED HAY.
- BALES SHOULD BE REPLACED USUALLY EVERY 2 MONTHS OR MORE OFTEN DURING WET WEATHER WHEN LOSS OF STRUCTURAL INTEGRITY IS ACCELERATED.

GENERAL NOTES

- HAY BALES SHALL BE A MINIMUM OF 30" IN LENGTH AND WEIGH A MINIMUM OF 50 LBS.
- HAY BALES SHALL BE BOUND BY EITHER WIRE OR NYLON OR POLYPROPYLENE STRING. THE BALES SHALL BE COMPOSED ENTIRELY OF VEGETABLE MATTER.
- HAY BALES SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF 4" AND, WHERE POSSIBLE, ONE-HALF THE HEIGHT OF THE BALE.
- HAY BALES SHALL BE PLACED IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES. THE BALES SHALL BE PLACED WITH BINDINGS PARALLEL TO THE GROUND.
- HAY BALES SHALL BE SECURELY ANCHORED IN PLACE WITH 3/8" DIA. REBAR OR 2" x 2" WOOD STAKES DRIVEN THROUGH THE BALES. THE FIRST STAKE SHALL BE ANGLED TOWARDS THE PREVIOUSLY LAID BALE TO FORCE THE BALES TOGETHER.
- THE GUIDELINES SHOWN HEREON ARE SUGGESTIONS ONLY AND MAY BE MODIFIED BY THE ENGINEER.

BALED HAY FOR EROSION CONTROL



TYPE 4 FILTER DAM AT DITCHES & SMALLER CHANNELS PLAN VIEW

ROCK FILTER DAMS

ROCK FILTER DAM USAGE GUIDELINES

ROCK FILTER DAMS SHOULD BE CONSTRUCTED DOWNSTREAM FROM DISTURBED AREAS TO INTERCEPT SEDIMENT FROM OVERLOAD RUNOFF AND / OR CONCENTRATED FLOW. THE DAMS SHOULD BE SIZED TO FILTER A MAXIMUM FLOW THRU RATE OF 60 GPM / FT SQUARED OF CROSS SECTIONAL AREA. A 2 YEAR STORM FREQUENCY MAY BE USED TO CALCULATE THE FLOW RATE.

- TYPE 1 (18" HIGH WITH NO WIRE MESH) :**
- TYPE 1 MAY BE USED AT THE TOE OF SLOPES, AROUND INLETS, IN SMALL DITCHES AND AT DIKE OR SWALE OUTLETS. THIS TYPE OF DAM IS RECOMMENDED TO CONTROL EROSION FROM A DRAINAGE AREA OF 5 ACRES OR LESS. TYPE 1 MAY NOT BE USED IN CONCENTRATED HIGH VELOCITY FLOWS (APPROXIMATELY 8 FT. / SEC. OR MORE) IN WHICH AGGREGATE WASH OUT MAY OCCUR. SANDBAGS MAY BE USED AT THE EMBEDDED FOUNDATION (4" DEEP MIN.) FOR BETTER FILTERING EFFICIENCY OF LOW FLOWS IF CALLED FOR ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
- TYPE 2 (18" HIGH WITH WIRE MESH) :**
- TYPE 2 MAY BE USED IN DITCHES AND AT DIKE OR SWALE OUTLETS.
- TYPE 3 (36" HIGH WITH WIRE MESH) :**
- TYPE 3 MAY BE USED IN STREAM FLOW AND SHOULD BE SECURED TO THE STREAM BED.
- TYPE 4 (SACK GABIONS) :**
- TYPE 4 MAY BE USED IN DITCHES AND SMALLER CHANNELS TO FORM AN EROSION CONTROL DAM.

GENERAL NOTES

- IF SHOWN ON THE PLANS OR DIRECTED BY THE ENGINEER, FILTER DAMS SHOULD BE PLACED NEAR THE TOE OF SLOPES WHERE EROSION IS ANTICIPATED, UPSTREAM AND / OR DOWNSTREAM AT DRAINAGE STRUCTURES, AND IN ROADWAY DITCHES AND CHANNELS TO COLLECT SEDIMENT.
- MATERIALS (AGGREGATE, WIRE MESH, SANDBAGS, ETC.) SHALL BE AS INDICATED BY THE SPECIFICATION FOR ROCK FILTER DAMS FOR EROSION AND SEDIMENTATION CONTROL.
- THE ROCK FILTER DAM DIMENSIONS SHALL BE AS INDICATED ON THE STORM WATER POLLUTION PREVENTION PLANS.
- SIDE SLOPES SHOULD BE 2 : 1 OR FLATTER. DAMS WITHIN THE SAFETY ZONE SHALL HAVE SIDE SLOPES OF 6 : 1 OR FLATTER.
- MAINTAIN A MINIMUM OF 1' BETWEEN TOP OF ROCK FILTER DAM WEIR AND TOP OF EMBANKMENT FOR FILTER DAMS AT SEDIMENT TRAPS.
- FILTER DAMS SHOULD BE EMBEDDED A MINIMUM OF 4" INTO THE EXISTING GROUND.
- THE SEDIMENT TRAP FOR PONDING OF SEDIMENT LADEN RUNOFF SHALL BE OF THE DIMENSIONS SHOWN ON THE PLANS.
- ROCK FILTER DAM TYPES 2 & 3 SHALL BE SECURED WITH 20 GAUGE GALVANIZED WOVEN WIRE MESH WITH 1" DIAMETER HEXAGONAL OPENINGS. THE AGGREGATE SHALL BE PLACED AT THE UPSTREAM SIDE OVER THE AGGREGATE AND TIGHTLY SECURED TO ITSELF ON THE DOWNSTREAM SIDE USING WIRE TIES OR HOG RINGS. IN STREAM USE, THE MESH SHOULD BE SECURED OR STAKED TO THE STREAM BED PRIOR TO AGGREGATE PLACEMENT.
- SACK GABIONS SHOULD BE STAKED DOWN WITH 3 / 4" DIA. REBAR STAKES.
- FLOW OUTLET SHOULD BE ONTO A STABILIZED AREA (VEGETATION, ROCK, ETC.).
- THE GUIDELINES SHOWN HEREON ARE SUGGESTIONS ONLY AND MAY BE MODIFIED BY THE ENGINEER.

JANUARY 2005

STANDARD PLANS
 CITY OF SAN ANTONIO, TEXAS
 DEPARTMENT OF PUBLIC WORKS

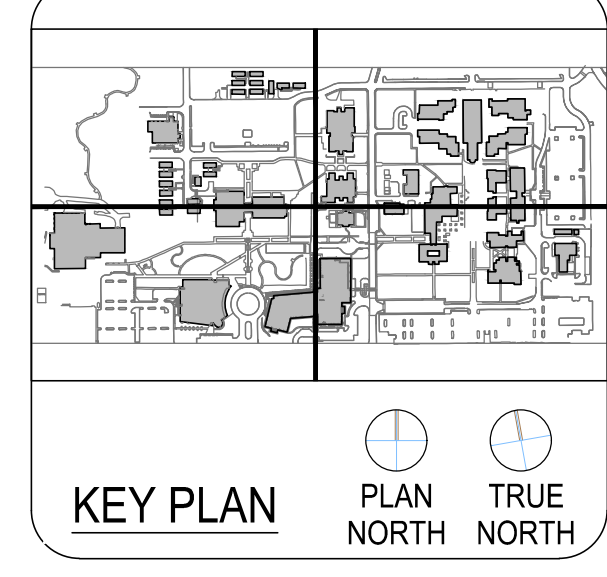
TEMPORARY EROSION, SEDIMENT & WATER POLLUTION CONTROL MEASURES STANDARDS 2

DRAWN BY: V. VASQUEZ	DATE:	REVISIONS:	SCALE: SEE ABOVE
CHECKED BY: NAT HARDY, P.E.			SHEET: OF

**ACD Palo Alto College
Hydronic Piping Replacement**

1400 West Villaret
San Antonio, Texas, 78224

ISSUE FOR CONSTRUCTION



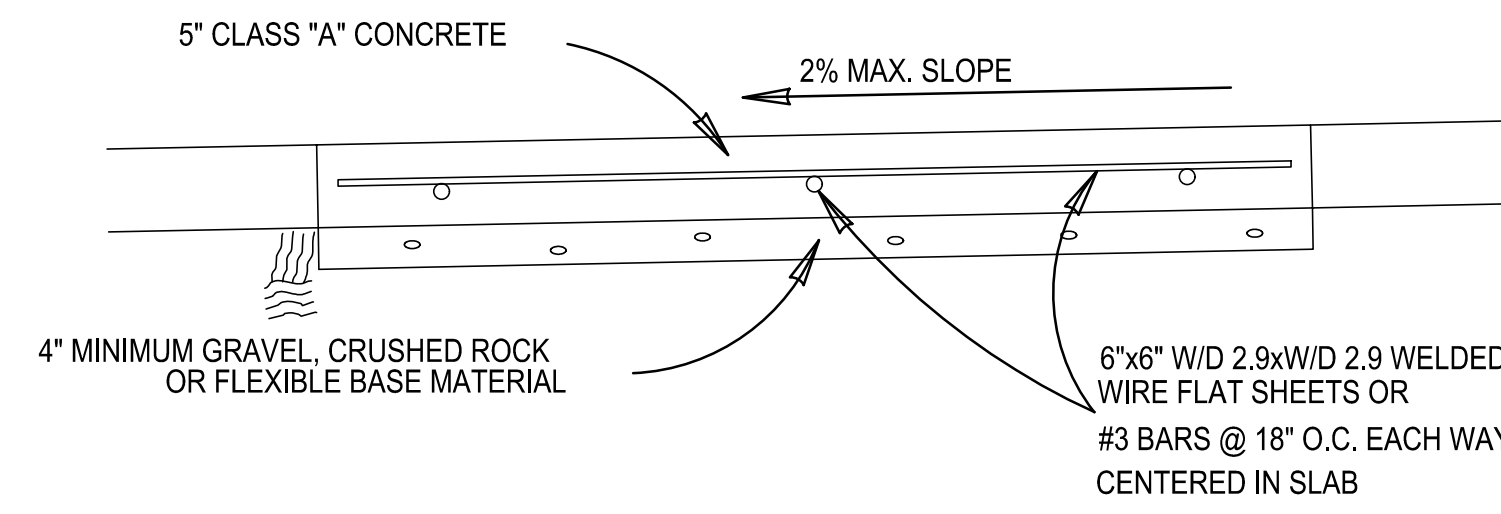
CLIENT ACD PALO ALTO COLLEGE		
PROJECT NUMBER C-1613		
DATE:	05/11/2023	
DRAWN BY:	M.L.	
CHECKED BY:	L.C.	
REVISIONS		
No.	Description	Date

ISSUE FOR CONSTRUCTION

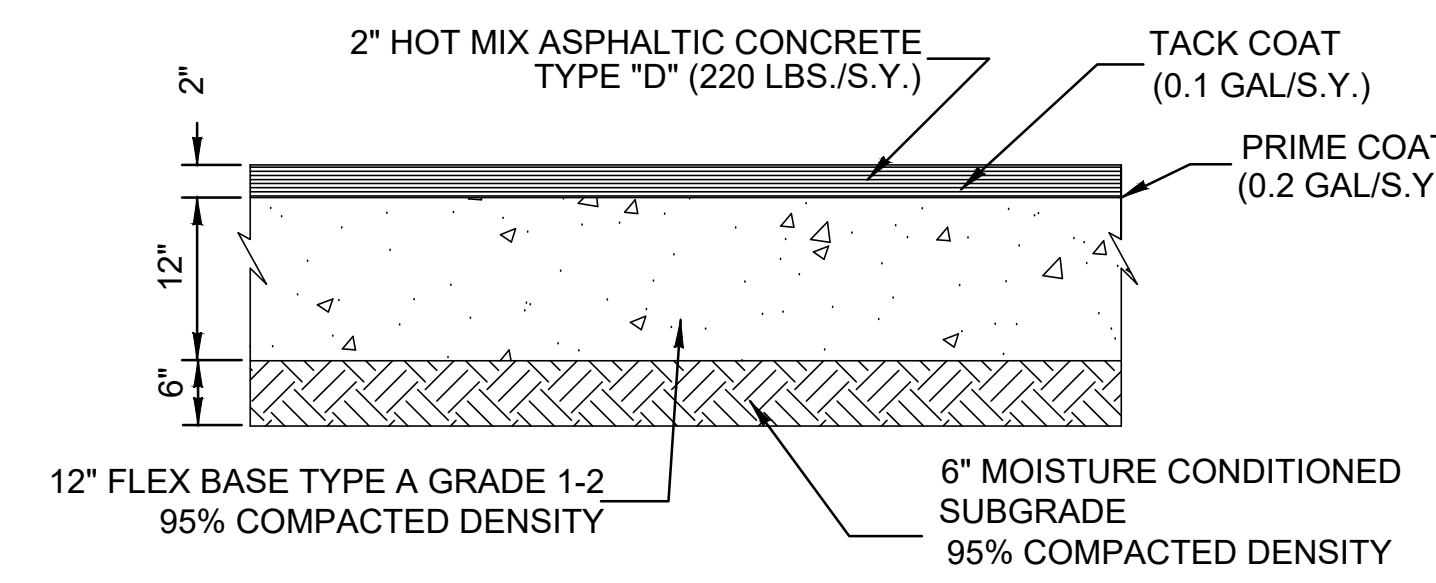
STORM WATER POLLUTION PREVENTION PLAN DETAILS 2

C-3.3

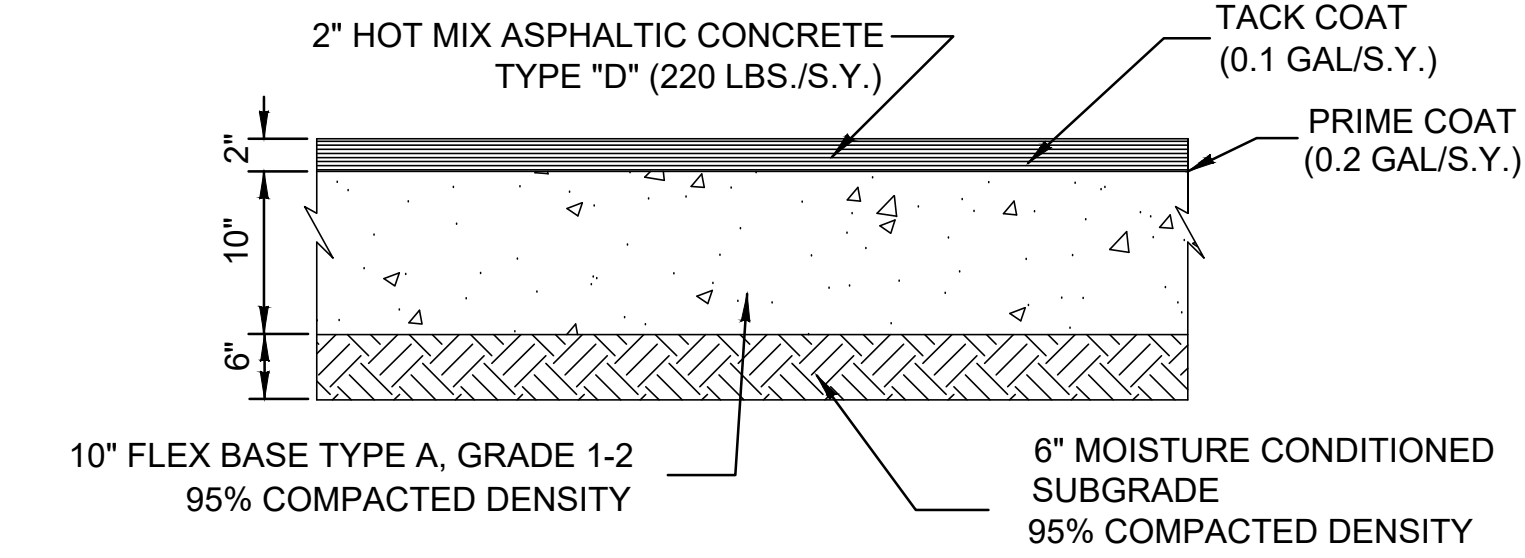
MEPT	LEAF Engineers
OWNER	ALAMO COLLEGE DISTRICT 601 NW LOOP 410, Suite 400, San Antonio, TX 78216 210-438-7200 P 210-438-5176 F TX Firm: F-18672 leafengineers.com
ARCHITECT	PKB ARCHITECTS 2222 NORTH ALAMO STREET SAN ANTONIO, TEXAS 78215 210-555-0000 F
CIVIL SURVEYOR	SAN MEDINA BAIN 7073 SAN PEDRO SAN ANTONIO, TEXAS 78216 210-494-7223 P, 210-494-0574 F
LANDSCAPE	EDGELAND GROUP 601 NW LOOP 410, SUITE 400 SAN ANTONIO, TEXAS 78216 734-685-0989 P, 734-681-4217 F



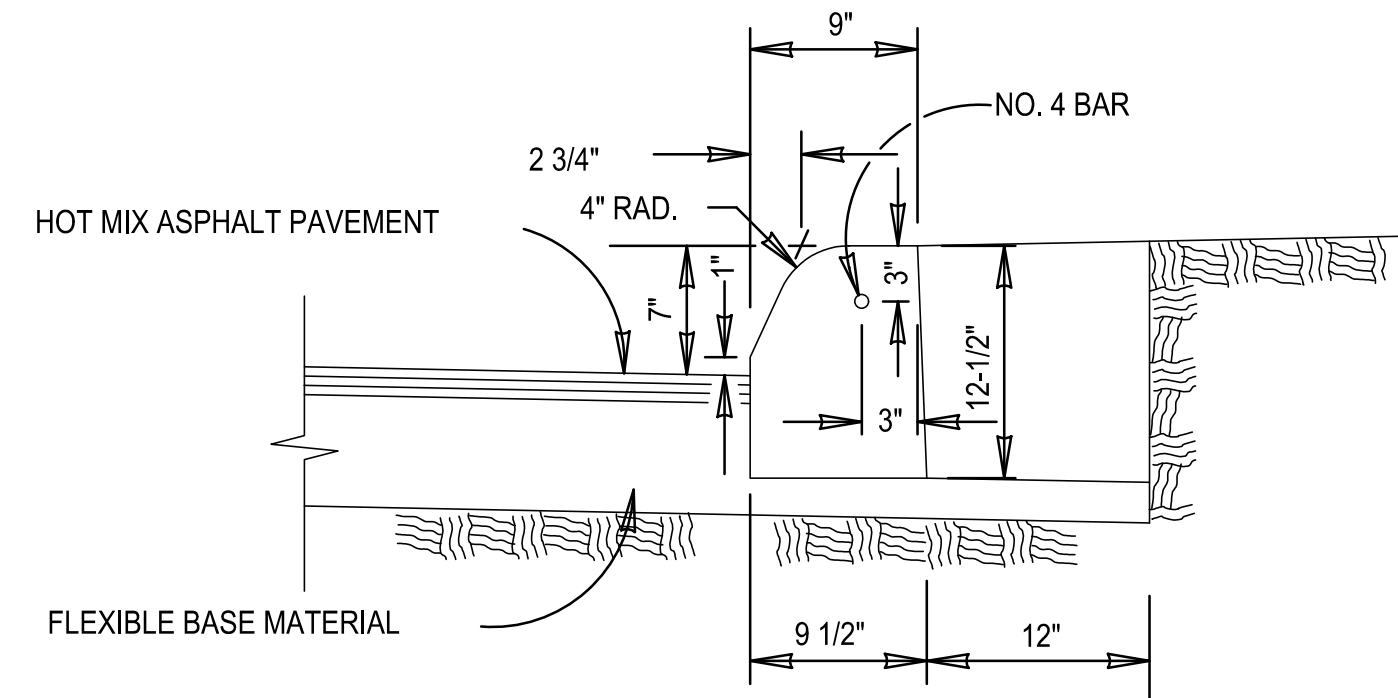
1 CONCRETE SIDEWALK SECTION N.T.S.



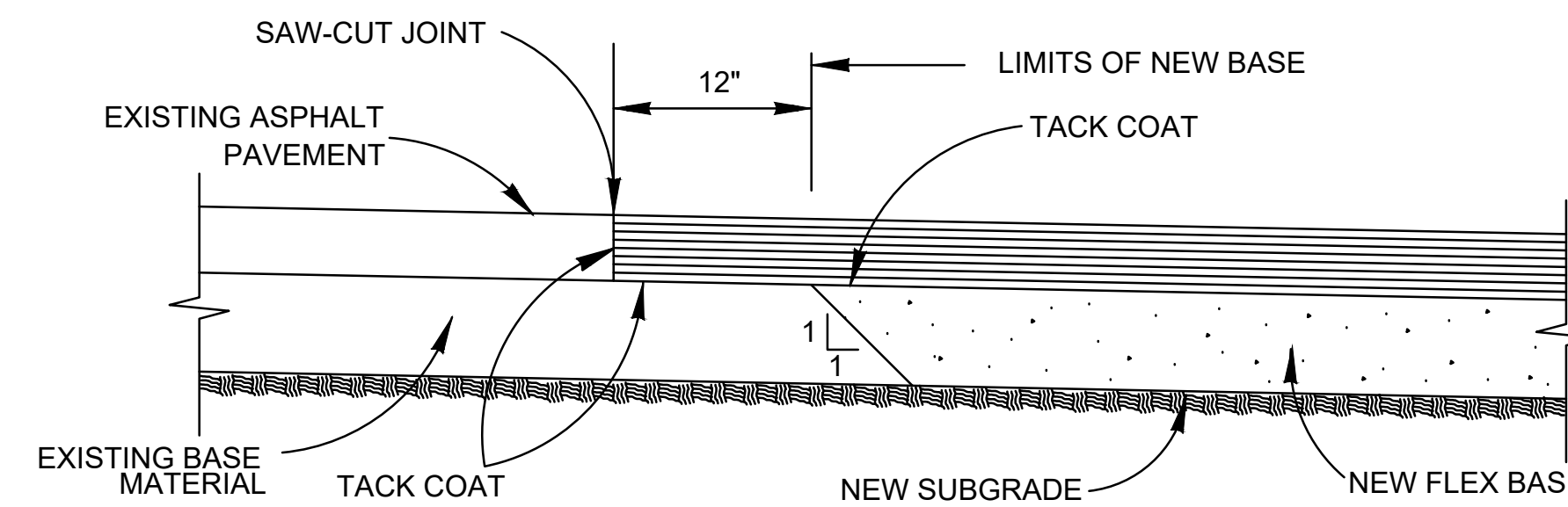
2 HEAVY-DUTY ASPHALT PAVEMENT SECTION DETAIL N.T.S.



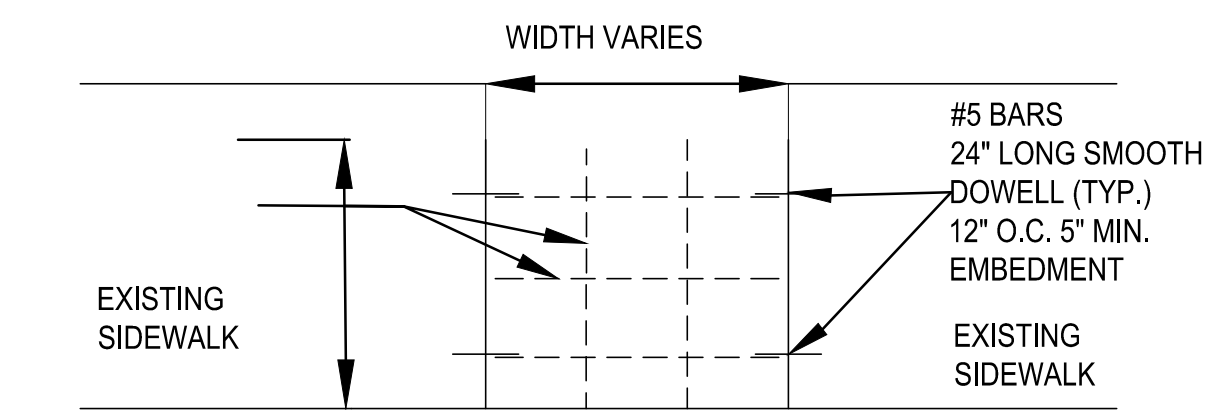
3 LIGHT-DUTY ASPHALT PAVEMENT (PARKING LOT) SECTION DETAIL N.T.S.



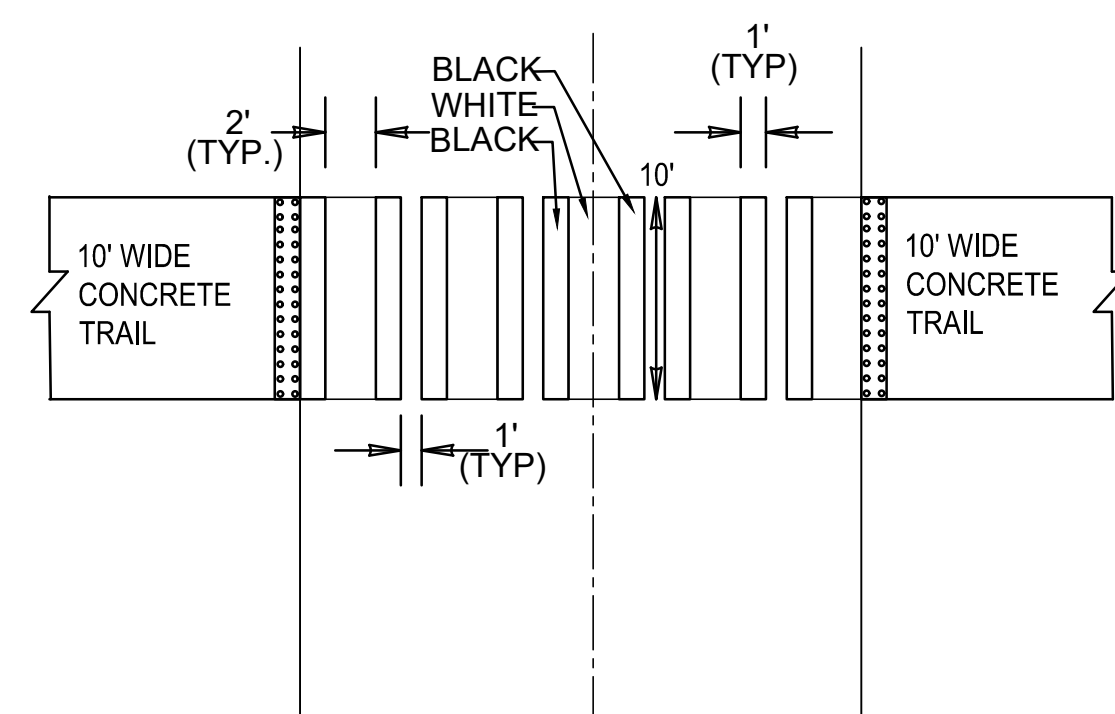
4 CONCRETE CURB N.T.S.



5 PAVEMENT JUNCTION DETAILS N.T.S.

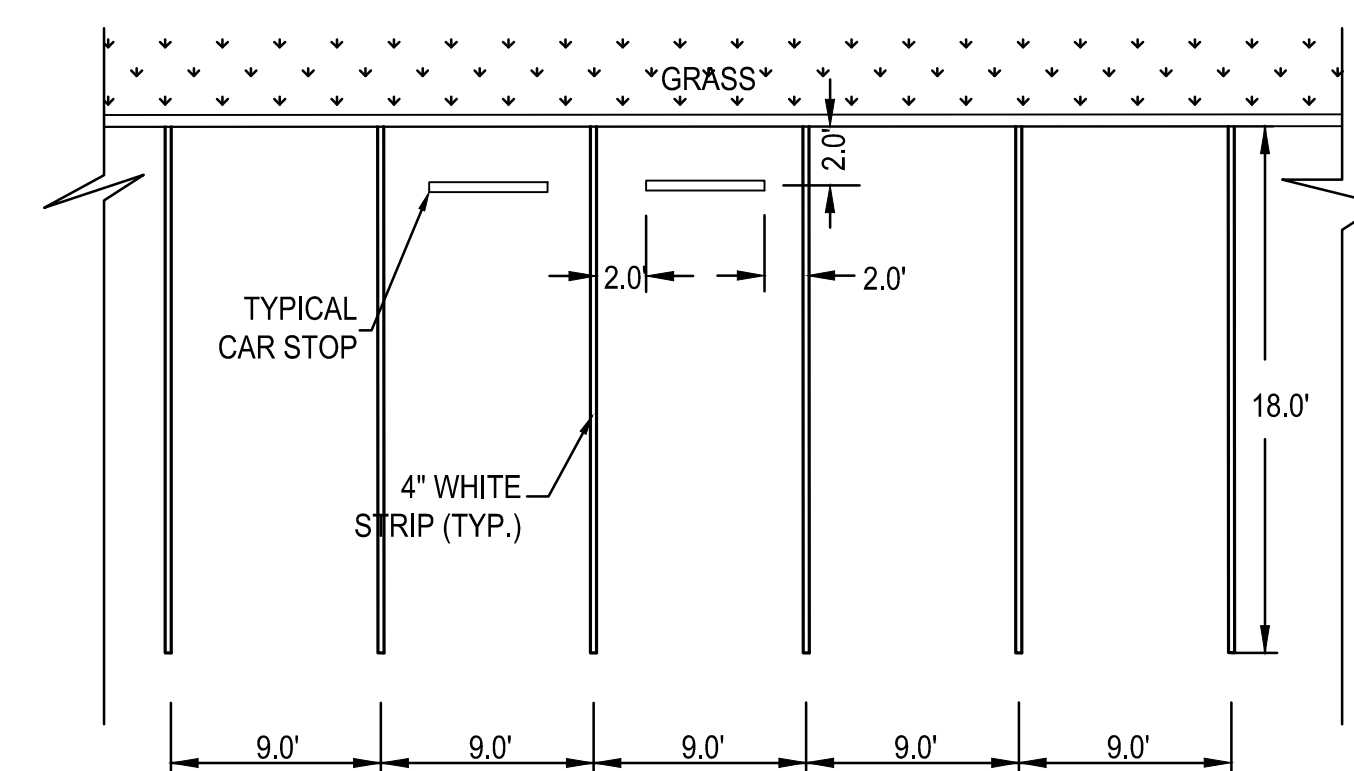


6 CONCRETE SIDEWALK PATCH DETAIL N.T.S.



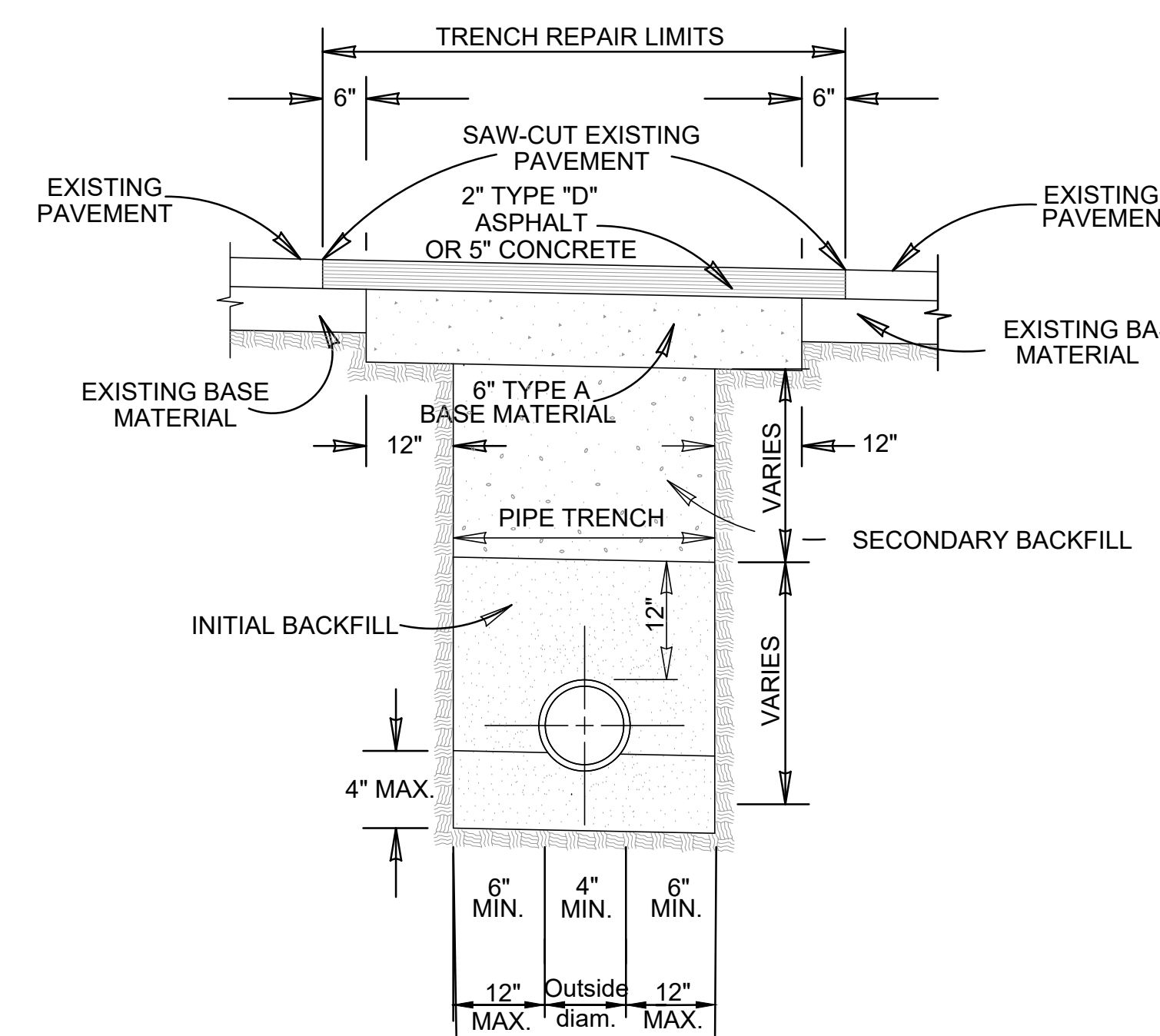
NOTES:
 1. CROSSWALKS LINES SHALL BE PRE-FORM THERMAL BLACK AND WHITE BARS. EXTRUDED THERMAL NOT ACCEPTABLE.
 2. CROSSWALK STRIPING TO BE CENTERED BETWEEN CURBS OR AREA.

7 CROSS WALK STRIPING N.T.S.

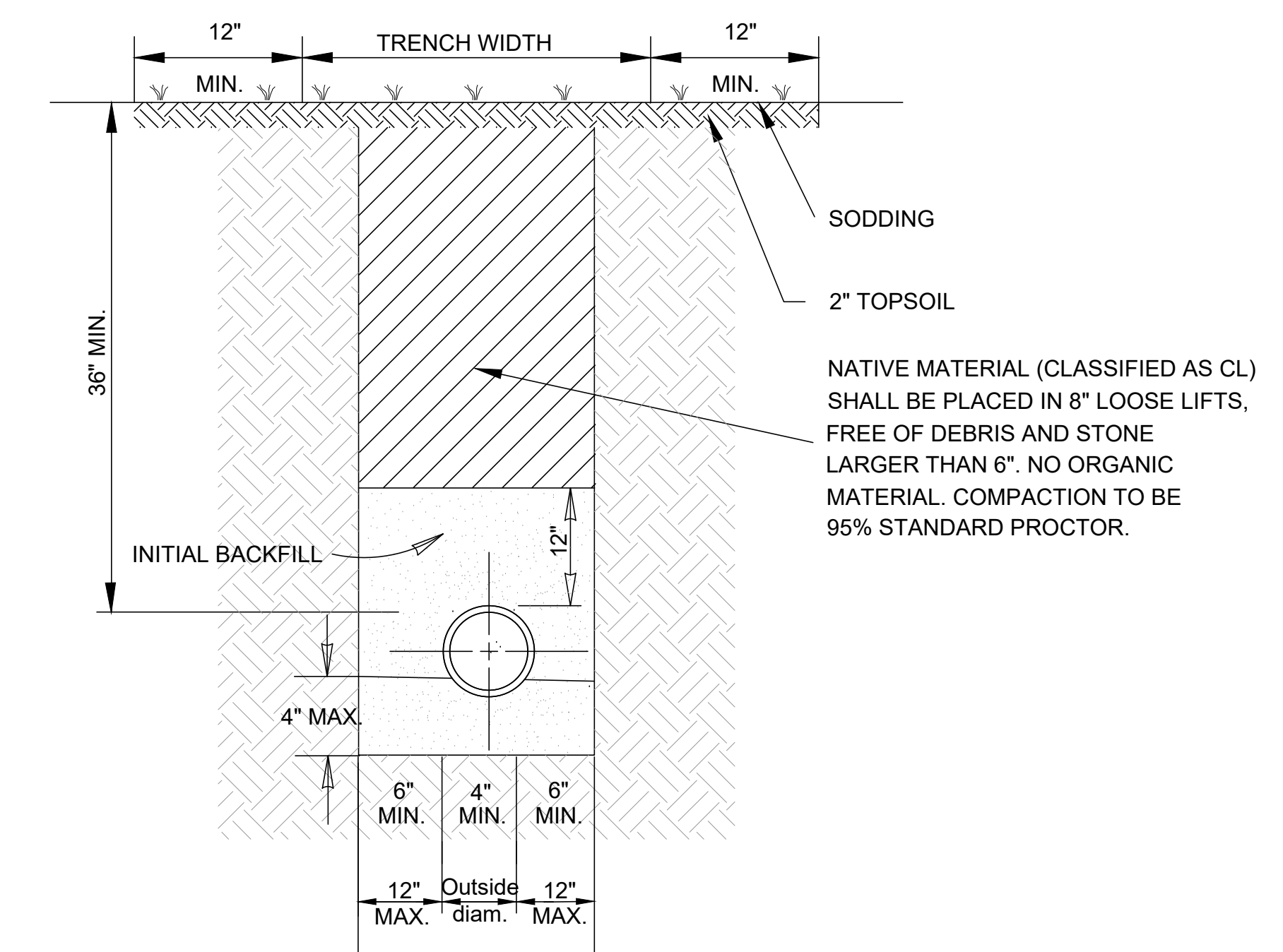


NOTES:
 1. PAINT STRIPE SHALL BE 4" WHITE AND 9'-0" O.C. AS SHOWN ON THE PLANS.

8 TYPICAL PARKING STRIPE DETAIL N.T.S.



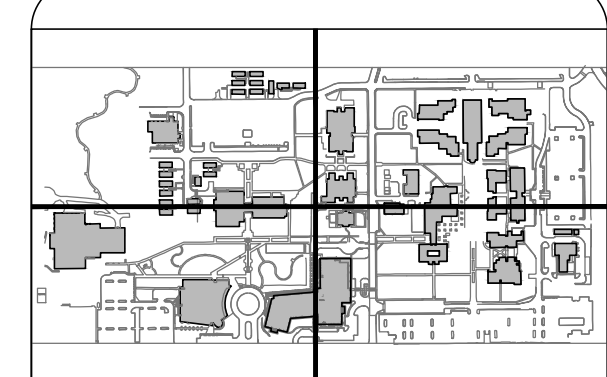
9 PIPE LAID IN TRENCH/ASPHALT TRENCH REPAIR DETAIL N.T.S.



10 PIPE LAID IN TRENCH (NON-PAVED) N.T.S.

**ACD Palo Alto College
Hydronic Piping Replacement**

1400 West Villaret
San Antonio, Texas, 78224
ISSUE FOR CONSTRUCTION



CLIENT	ACD PALO ALTO COLLEGE
PROJECT NUMBER	C-1613
DATE	05/11/2023
DRAWN BY	M.L.
CHECKED BY	L.C.

No.	Description	Date

ISSUE FOR CONSTRUCTION

**CIVIL
DETAILS**

C-4.0

Drawn by: M.L. Date: 05/11/2023
 Checked by: L.C. Date: 05/11/2023
 Project: ACD Palo Alto College Hydronic Piping Replacement
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