

APPLICATION FOR SUBMITTAL OF POST-APPROVAL DOCUMENT

This application is for submittal of documents, after the initial approval of the project (post-approval documents), that require Division of the State Architect (DSA) review and approval. This form shall be completed by the Design Professional in General Responsible Charge of the project, in accordance with California Code of Regulations, Title 24, Part 1, Sections 4-317, 4-323 and 4-338 and in compliance with DSA IR A-6: Construction Change Document Submittal and Approval Process.

DSA documents referenced within this form are available on the [DSA Forms](#) or [DSA Publications](#) webpages.

1. SUBMITTAL TYPE: (Is this a resubmittal? Yes <input type="checkbox"/> No <input type="checkbox"/>)				
Deferred Submittal <input type="checkbox"/>	Addendum Number:	Revision Number:	CCD Number:	Category A <input type="checkbox"/> or B <input type="checkbox"/>
2. PROJECT INFORMATION:				
School District/Owner:			DSA File Number:	
Project Name/School:			DSA Application Number:	
3. APPLICANT INFORMATION:				
Date Submitted:		Attached Pages? No <input type="checkbox"/> Yes <input type="checkbox"/> Number of pages?		
Firm Name:		Contact Name:		
Work Email:		Work Phone:		
Firm Address:		City:	State:	Zip Code:
4. REASON FOR SUBMITTAL: (Check applicable boxes)				
<input type="checkbox"/> For revision or addendum prior to construction.			<input type="checkbox"/> For a project currently under construction.	
<input type="checkbox"/> For a project that has a form <i>DSA 301-N: Notification of Requirement for Certification</i> , <i>DSA 301-P: Posted Notification of Requirement for Certification</i> or a 90-Day Letter issued.				
<input type="checkbox"/> To obtain DSA approval of an existing uncertified building or buildings.				
<input type="checkbox"/> For Category B CCD this is: <input type="checkbox"/> a voluntary submittal, <input type="checkbox"/> a DSA required submittal (attach DSA notice requiring submission).				
5. DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE:				
Name of the Design Professional In General Responsible Charge:				
Professional License Number:			Discipline:	
Design Professional in General Responsible Charge Statement: The attached post-approval documents have been examined by me for design intent and appear to meet the appropriate requirements of Title 24, California Code of Regulations and the project specifications. They are acceptable for incorporation into the construction of the project.				
Signature: <u><i>Jean Amador</i></u> DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE				
6. CONFIRMATION, DESCRIPTION AND LISTING OF DOCUMENTS:				
For addenda, revisions, or CCDs: CHECK THIS BOX <input type="checkbox"/> to confirm that <i>all</i> post-approval documents have been stamped and signed by the Responsible Design Professional listed on form <i>DSA 1: Application for Approval of Plans and Specifications</i> for this project. (For <i>Deferred Submittals</i> , refer to <i>IR A-18: Use of Construction Documents Prepared by Other Professionals</i> , and <i>IR A-19: Design Professional's Signature and Seal (Stamp) on Construction Documents</i> , when applicable, for signature and seal requirements.)				
Provide a brief description of construction scope for this post-approval document (attach additional sheets if needed): 				
List of DSA-approved drawings affected by this post-approval document: 				

DSA USE ONLY		
	Returned	DSA STAMP
SSS _____ Date _____ <input type="checkbox"/> Approved <input type="checkbox"/> Disapproved <input type="checkbox"/> Not Required Comments: _____	Date:	
FLS _____ Date _____ <input type="checkbox"/> Approved <input type="checkbox"/> Disapproved <input type="checkbox"/> Not Required Comments: _____	By:	
ACS _____ Date _____ <input type="checkbox"/> Approved <input type="checkbox"/> Disapproved <input type="checkbox"/> Not Required Comments: _____		

G:\Projects\Civil\LA30354_Ventura College_Civil Improvements_AIA Design\Coding Area 4\2023-06-02\AREAS_C-200_DEMOLITION_PLAN.dwg Date:06/07/23 01:37p mhudson



MATCHLINE: SEE SHEET C2.1

DEMOLITION NOTES:

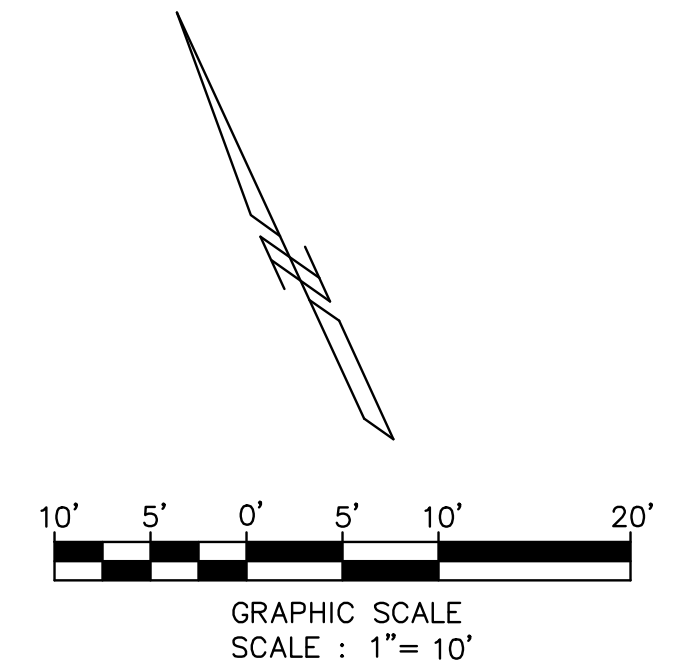
- 1 CONCRETE PAVEMENT
- 2 ASPHALT CONCRETE PAVEMENT
- 3 TREE
- 4 CHAINLINK FENCE AND POST FOOTING
- 5 CLEAR AND GRUB
- 6 WOOD BUILDING AND CONCRETE PAD
- 7 CONCRETE CATH BASIN
- 8 CURB RAMP
- 9 CONCRETE CURB
- 10 HOSE BIB CUT AND CAP LINE
- 11 CONCRETE V-GUTTER
- (A) ADJUST TO GRADE
- (C) CUT AND PLUG
- (P) PROTECT IN PLACE
- (R) RELOCATE EXISTING ITEMS, CONTRACTOR SHALL TEMPORARILY RELOCATE ON-SITE TO ACCOMPLISH PAVING WORK. UPON COMPLETION OF PAVING WORK, THE ITEMS SHALL BE REPLACED. COORDINATE WITH OAR

DEMOLITION GENERAL NOTES:


1. REFER TO CIVIL AND ARCHITECTURAL DRAWINGS FOR ADDITIONAL DEMOLITION INFORMATION AND ANY UTILITIES WORK REQUIRED OUTSIDE OF LIMITS OF WORK.
2. PROTECT EXISTING UTILITY LINES IN PLACE UNLESS OTHERWISE NOTED.
3. FOR DEMOLITION OR RELOCATION OF UNDERGROUND UTILITIES SEE SITE GRADING PLANS.
4. THE CONTRACTOR SHALL PROVIDE NOTIFICATION TO OWNERS PRIOR TO DEMOLITION OF EXISTING WALL/FENCE.
5. THE CONTRACTOR SHALL TAKE NECESSARY MEASURES TO PROTECT THE INTEGRITY OF THE ADJACENT STRUCTURES, POWER POLES, AND ANY IMPROVEMENTS OF ADJACENT PROPERTIES DURING DEMOLITION AND CONSTRUCTION OF NEW FENCING AND WALLS.
6. THE CONTRACTOR SHALL REPAIR AND RESTORE ANY STRUCTURES OR ADJOINING WALLS THAT RE DAMAGED DURING DEMOLITION.
7. CONSTRUCTOR SHALL DOCUMENT LOCATION OF ADA PARKING STRIPING AND SYMBOLS FOR RESTORATION UPON COMPLETION OF PAVING WORK.

LEGEND:

- LIMIT OF WORK
- - - SAWCUT & JOIN LINE
- REMOVE EXISTING CONCRETE PAVEMENT 1
- REMOVE EXISTING ASPHALT CONCRETE PAVEMENT 2
- REMOVE EXISTING UTILITY
- # ITEMS TO BE REMOVED UNLESS OTHERWISE NOTED.



DIVISION OF THE STATE ARCHITECT




VENTURA COUNTY COMMUNITY COLLEGE DISTRICT
 761 EAST DAILY DRIVE
 CAMARILLO, CALIFORNIA 93010
 TEL: (805) 652-5500

PROJECT TITLE AND SCHOOL LOCATION


VCCCD - #4 OUTDOOR WORKOUT - AEC
 Campus Student Center
 4667 Telegraph Road
 Ventura, CA 93003

COMMISSIONED ARCHITECT



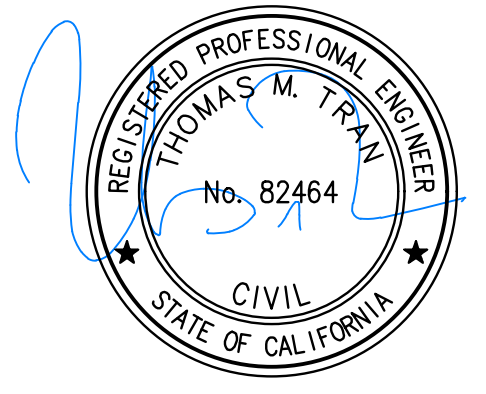
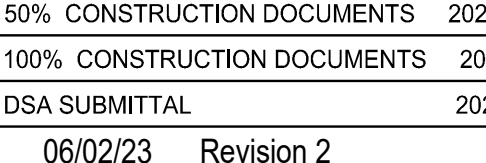
28328 AGOURA RD, 203 | AGOURA HILLS CA, 91301 | 805-558-4334
 amador while architects, inc.

CONSULTANT



CIVIL ENGINEERING
 SURVEYING+MAPPING
 LAND DEVELOPMENT
 213 624 2661 TEL
 919 W. GLENOAKS BLVD.,
 2nd FLOOR
 GLENDALE, CA 91202

STAMPS/SEALS

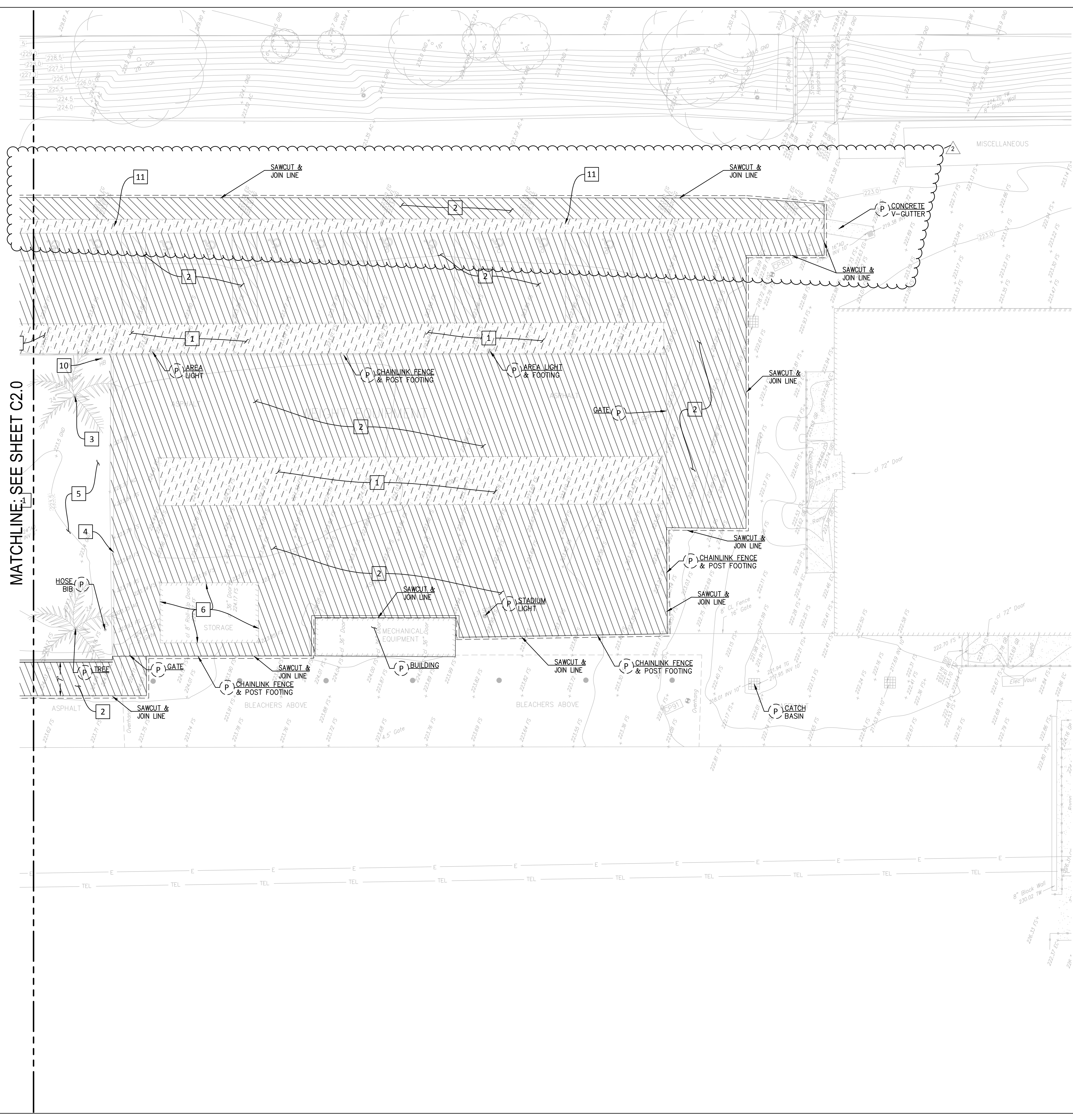



50% CONSTRUCTION DOCUMENTS 2022-10-04
 100% CONSTRUCTION DOCUMENTS 2022-10-17
 DSA SUBMITTAL 2022-12-07
 06/02/23 Revision 2

SHEET TITLE:

DEMOLITION PLAN

PROJECT NO: 22-VCCCD-10	PROJECT ARCH: Designer
DRAWN: Author	CHECKED: Checker
C2.0	
DATE:	SHEET: 2 OF



MATCHLINE: SEE SHEET C2.0

DEMOLITION NOTES:

- 1 CONCRETE PAVEMENT
- 2 ASPHALT CONCRETE PAVEMENT
- 3 TREE
- 4 CHAINLINK FENCE AND POST FOOTING
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LEGEND:

- LIMIT OF WORK
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- REMOVE EXISTING ASPHALT CONCRETE PAVEMENT 2
- # ITEMS TO BE REMOVED UNLESS OTHERWISE NOTED.

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 Ventura, CA 93003

COMMISSIONED ARCHITECT

AMADOR

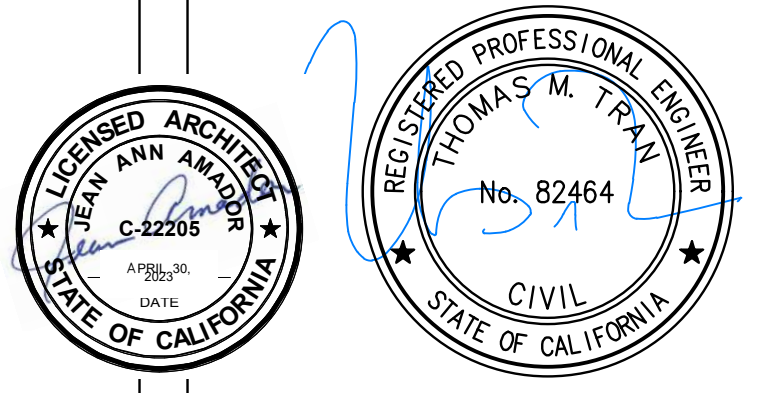
28328 AGOURA RD, 203 | AGOURA HILLS CA, 91301 | 805-558-4334
 amador@amadorarchitects.com

CONSULTANT

MOLLENHAUER GROUP

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STAMPS/SEALS



50% CONSTRUCTION DOCUMENTS	2022-10-04
100% CONSTRUCTION DOCUMENTS	2022-10-17
DSA SUBMITTAL	2022-12-07
06/02/23	Revision 2

SHEET TITLE:

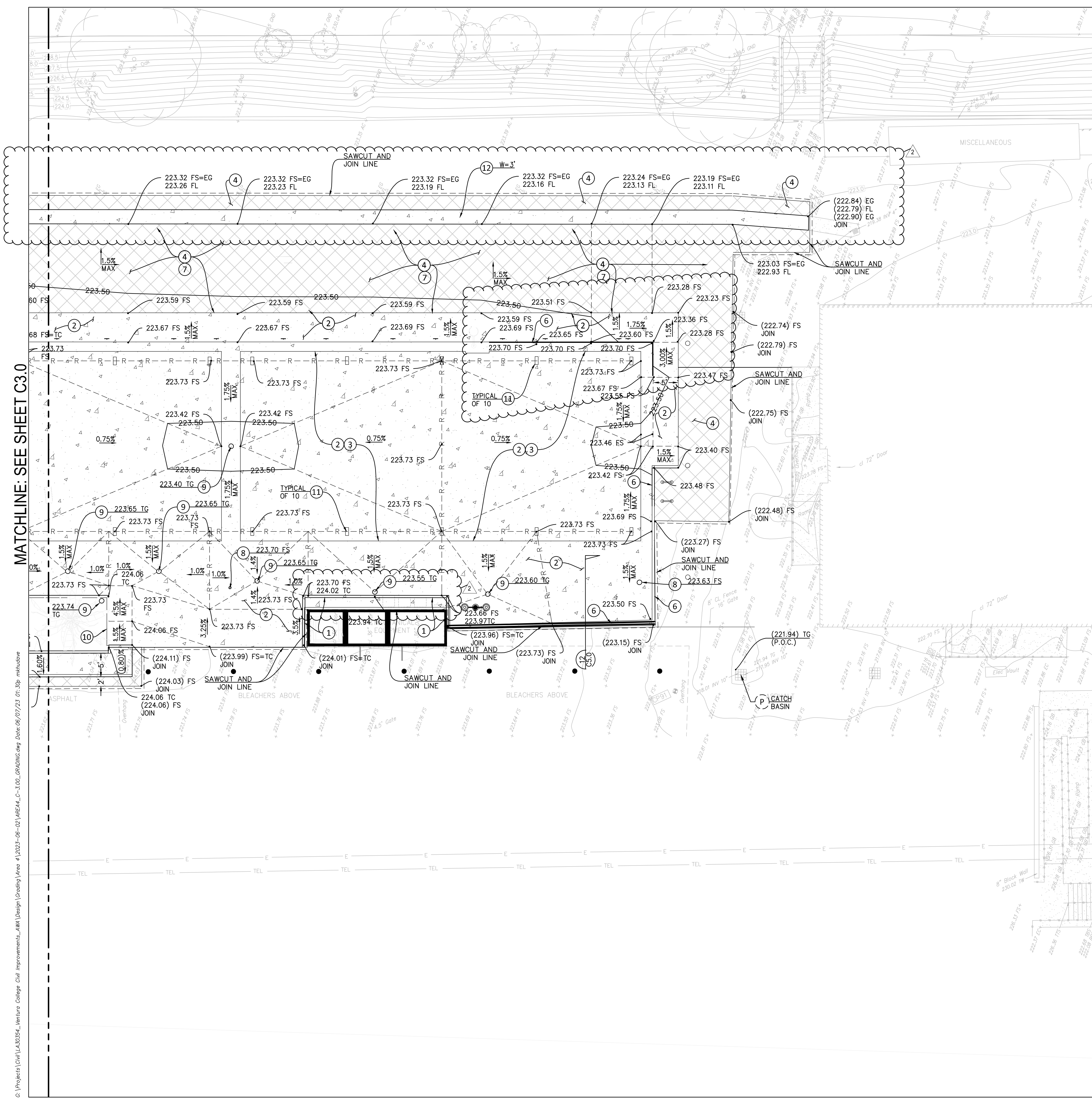
DEMOLITION PLAN

PROJECT NO: 22-VCCCD-10	PROJECT ARCH: Designer
DRAWN: Author	CHECKED: Checker
SHEET NUMBER:	

C2.1

DATE:	SHEET: 3 OF
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MATCHLINE: SEE SHEET C3.0

CONSTRUCTION NOTES:

- ① CONCRETE CURB PER DETAIL (11) C5.0
- ② CONCRETE PAVEMENT PER DETAIL (2) C5.0, TYPE PER PLAN
- ③ RUBBER MAT SEE ARCHITECTURAL PLAN PER DETAIL
- ④ ASPHALT CONCRETE PAVEMENT PER DETAIL (1) C5.0
- ⑤ 12" DOWELS AT 18" ON CENTER PER DETAIL (4) C5.0, TYPE B
- ⑥ THICKENED EDGE PER DETAIL (3) C5.0
- ⑦ REPLACE STRIPING TO MATCH EXISTING
- ⑧ SHALLOW CLEAN OUT PER DETAIL (7) C5.0
- ⑨ AREA DRAIN PER DETAIL (10) C5.0
- ⑩ CONCRETE CURB AT FENCE PER DETAIL (6) C5.0
- ⑪ CANOPY SHADE COLUMNS. SEE ARCHITECTURAL AND STRUCTURAL PLANS FOR DETAILS
- ⑫ CONCRETE V-GUTTER PER DETAIL (13) C5.0

GENERAL NOTES:

1. ALL PIPES SHALL BE BEDDED IN ACCORDANCE WITH DETAIL 5 ON SHEET C5.0.
2. ADJUST TO DESIGN GRADE TOP OF EXISTING VALVE BOXES AND VAULTS WITH IN AREAS TO BE REGRADED.
3. UNCLOG, CLEAN AND FLUSH THE WORK AREA DRAINAGE SYSTEM AFTER PAVING AND IMMEDIATELY BEFORE A RAIN FORECAST.
4. NO FILL TO BE PLACED, UNTIL THE CITY GRADING INSPECTOR HAS INSPECTED AND APPROVED THE BOTTOM EXCAVATION.
5. TEMPORARY EROSION CONTROL TO BE INSTALLED ALL YEAR LONG. OBTAIN GRADING INSPECTOR'S AND DEPARTMENT OF PUBLIC WORKS APPROVAL OF PROPOSED PROCEDURES.

LEGEND:

- ASPHALT CONCRETE PAVEMENT PER DETAIL (1) C5.0
- CONCRETE PAVEMENT PER DETAIL (2) C5.0

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△	100% CONSTRUCTION DOCUMENTS	2022-10-17
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△	06/02/23 Revision 2	

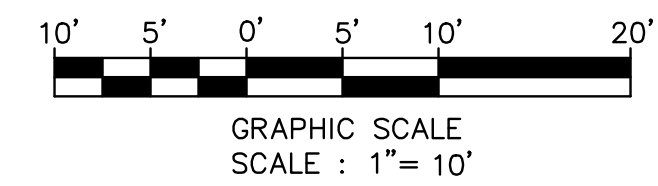
SHEET TITLE:

GRADING PLAN

PROJECT NO: 22-VCCCD-10	PROJECT ARCH: Designer
DRAWN: Author	CHECKED: Checker

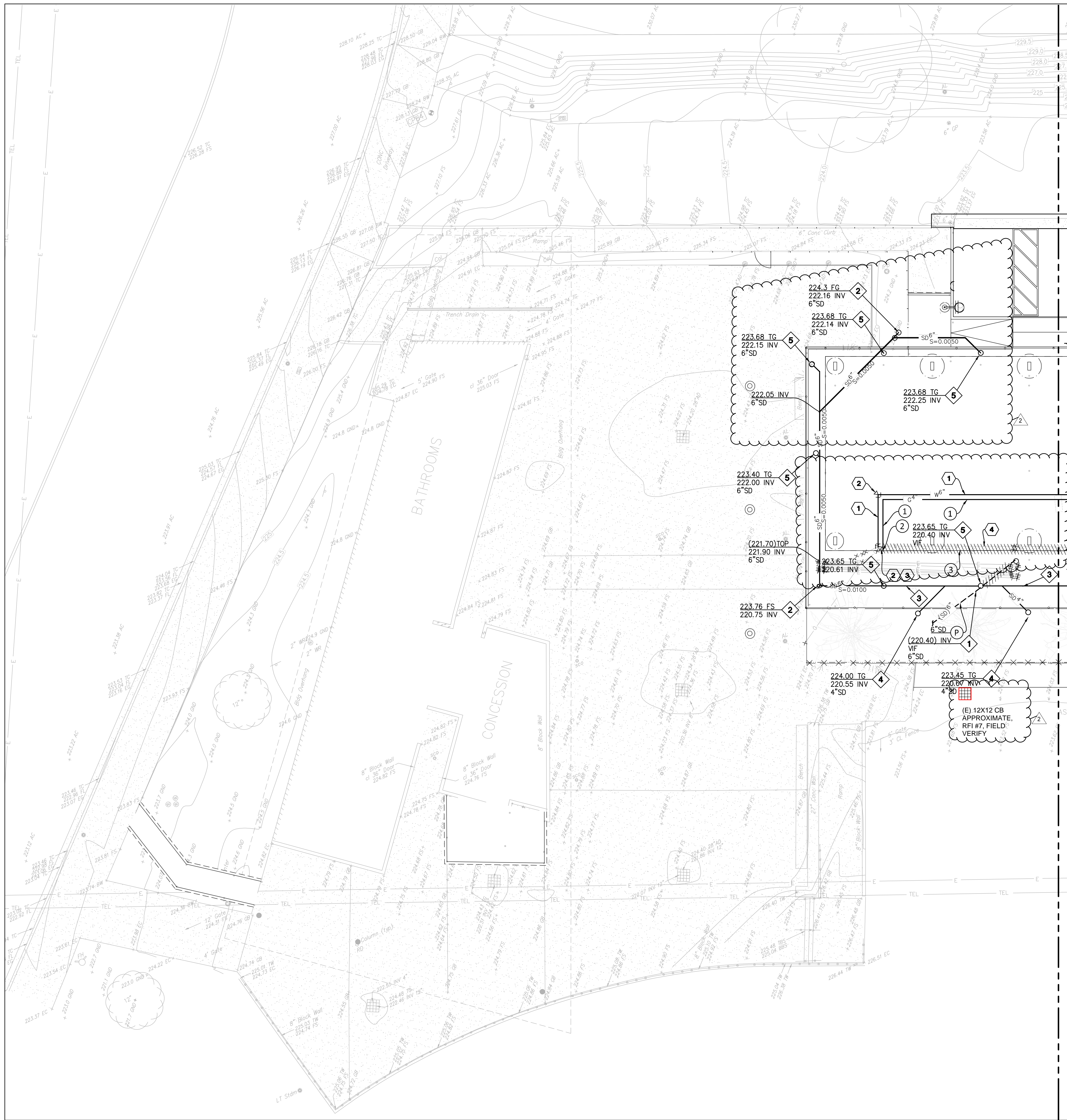
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DATE: SHEET: 5 OF



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MATCHLINE: SEE SHEET C4.1

STORM DRAIN NOTES:

- 1 POINT OF CONNECTION.
- 2 CLEANOUT PER DETAIL 7 C5.0
- 3 SOLID PVC PIPE SCHEDULE 40 DWV
- 4 ATRIUM DRAIN PER DETAIL 9 C5.0
- 5 AREA DRAIN PER DETAIL 10 C5.0
- P PROTECT IN PLACE

WATER NOTES:

- 1 NEW 6" DIAMETER WATER LINE, SEE GENERAL NOTE 3
- 2 TRUST BLOCK PER COUNTY OF VENTURA STANDARD PLAN DRAWING W-19 WATER PRESSURE 300 PSI, SOIL BEARING 100 PSF
- 3 POINT OF CONNECTION, SEE GENERAL NOTE 6
- 4 REMOVE EXISTING WATER LINE. NOTIFY ENGINEER OF ANY UNDOCUMENTED LATERAL CONNECTIONS.

GAS NOTES:

- 1 NEW 4" DIAMETER GAS LINE, SEE GENERAL NOTE 4
- 2 POINT OF CONNECTION, SEE GENERAL NOTE 6
- 3 REMOVE EXISTING GAS LINE. NOTIFY ENGINEER OF ANY UNDOCUMENTED LATERAL CONNECTIONS.

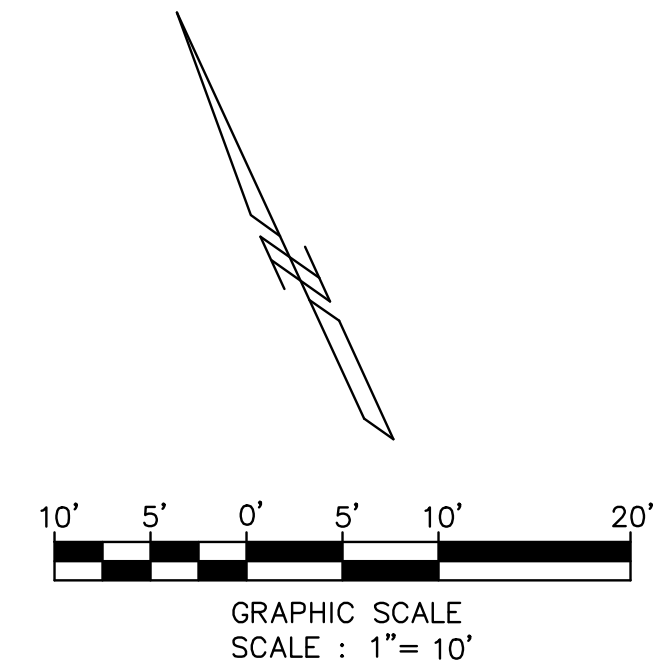
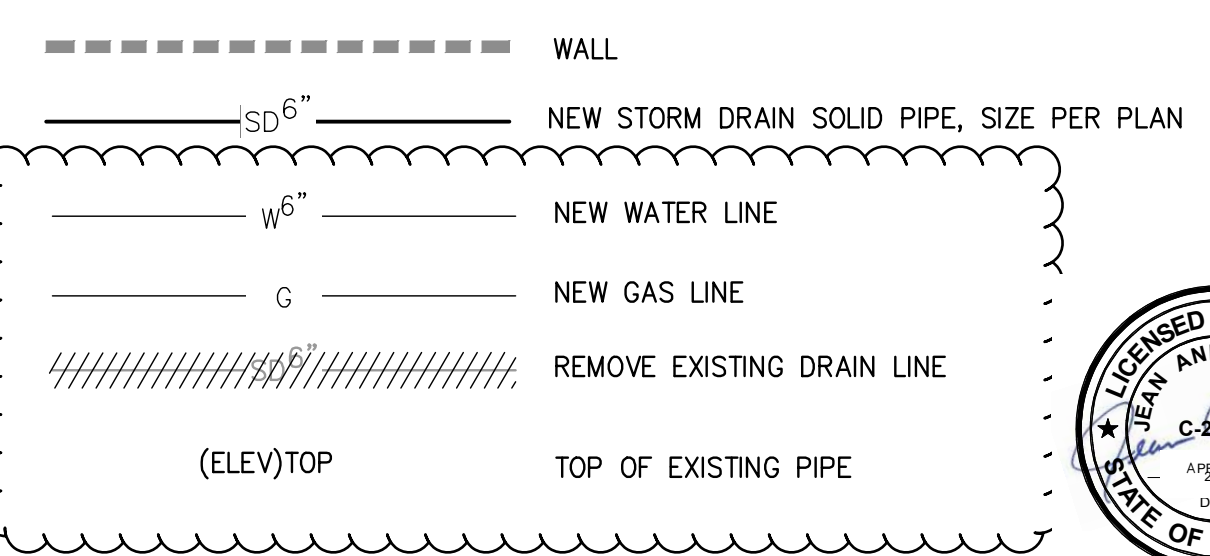
GENERAL NOTES:

- 1. ALL PIPES SHALL BE BEDDED IN ACCORDANCE WITH DETAIL 5 ON SHEET C5.0
- 2. UNOCLOG, CLEAN AND FLUSH THE WORK AREA DRAINAGE SYSTEM AFTER PAVING AND IMMEDIATELY BEFORE A RAIN FORECAST.
- 3. WATER SERVICE LINE SHALL HAVE A MINIMUM OF 42" OF COVER OVER THE TOP OF PIPE
- 4. GAS LINE SHALL HAVE A MINIMUM OF 30" COVER OVER THE TOP OF PIPE
- 5. WHERE STORM DRAIN LINE IS WITHIN 5' OF THE COLUMN FOOTING PROVIDE SLURRY BACKFILL IN TRENCH FOR 10' CENTERED ON COLUMN FOOTING
- 6. CONTRACTOR SHALL LOCATE AND EXCAVATE THE UPSTREAM AND DOWNSTREAM POINT OF CONNECTIONS PRIOR TO TRENCHING UTILITY. NOTIFY ENGINEER IF PIPE SIZE AND ALIGNMENT DIFFER FROM WHAT IS SHOWN ON PLAN.


PIPE MATERIALS TO BE USED ON PROJECT:

- STORM DRAINAGE 15" AND SMALLER: PVC SCHEDULE 40 DWV
- WATER LINE: ANWW C900, CLASS 305 (DR14)
- GAS LINE: GAS COMPANY APPROVED (YELLOW) NATURAL GAS PIPES- POLYETHYLENE (PE) PLASTIC PIPE, PE FITTINGS, AND HEAT-FUSION JOINTS MEETING THE REQUIREMENTS OF ASTM D 2513, ASTM 3261, AND ASTM D 2683

LEGEND:



DIVISION OF THE STATE ARCHITECT



VENTURA COUNTY COMMUNITY COLLEGE DISTRICT
 1761 EAST DAILY DRIVE
 CAMARILLO, CALIFORNIA 93010
 TEL: (805) 652-5500

PROJECT TITLE AND SCHOOL LOCATION

VCCCD - #4 OUTDOOR WORKOUT - AEC
 Campus Student Center
 4667 Telegraph Road
 Ventura, CA 93003

COMMISSIONED ARCHITECT


AMADOR
 28328 AGOURA RD, 203 | AGOURA HILLS CA, 91301 | 805-558-4334
 amadorwhitellarchitects, inc.

CONSULTANT



MOLLENHAUER GROUP
 CIVIL ENGINEERING SURVEYING+MAPPING LAND DEVELOPMENT
 213 624 2661 TEL
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STAMPS/SEALS



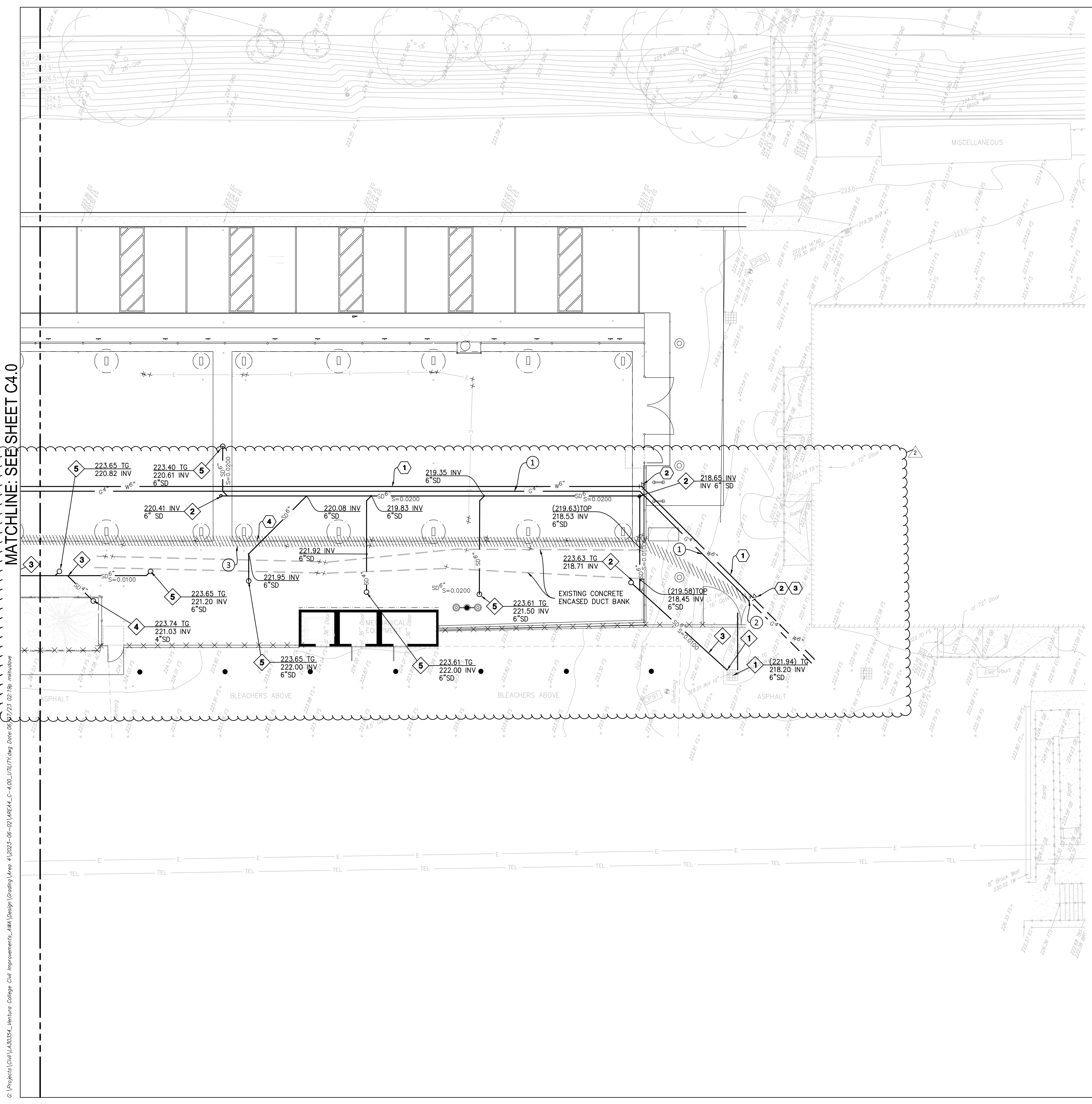
50% CONSTRUCTION DOCUMENTS	2022-10-04
100% CONSTRUCTION DOCUMENTS	2022-10-17
DSA SUBMITTAL	2022-12-07

SHEET TITLE:

UTILITY PLAN

PROJECT NO: 22-VCCCD-10	PROJECT ARCH: Designer
DRAWN: Author	CHECKED: Checker
C4.0	
DATE:	SHEET: 6 OF

MATCHLINE: SEE SHEET C4.0



STORM DRAIN NOTES:

- 1 POINT OF CONNECTION.
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- 5 AREA DRAIN PER DETAIL 10 CS.0
- P PROTECT IN PLACE

WATER NOTES:

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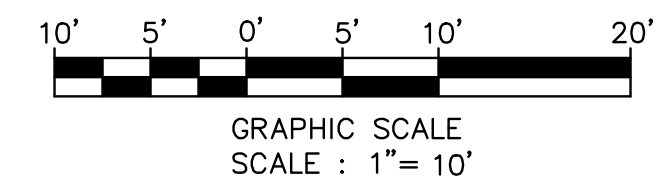
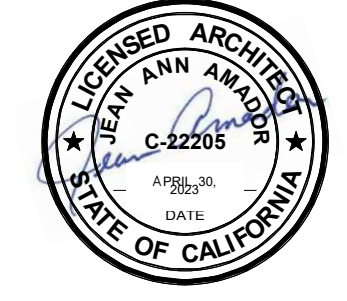
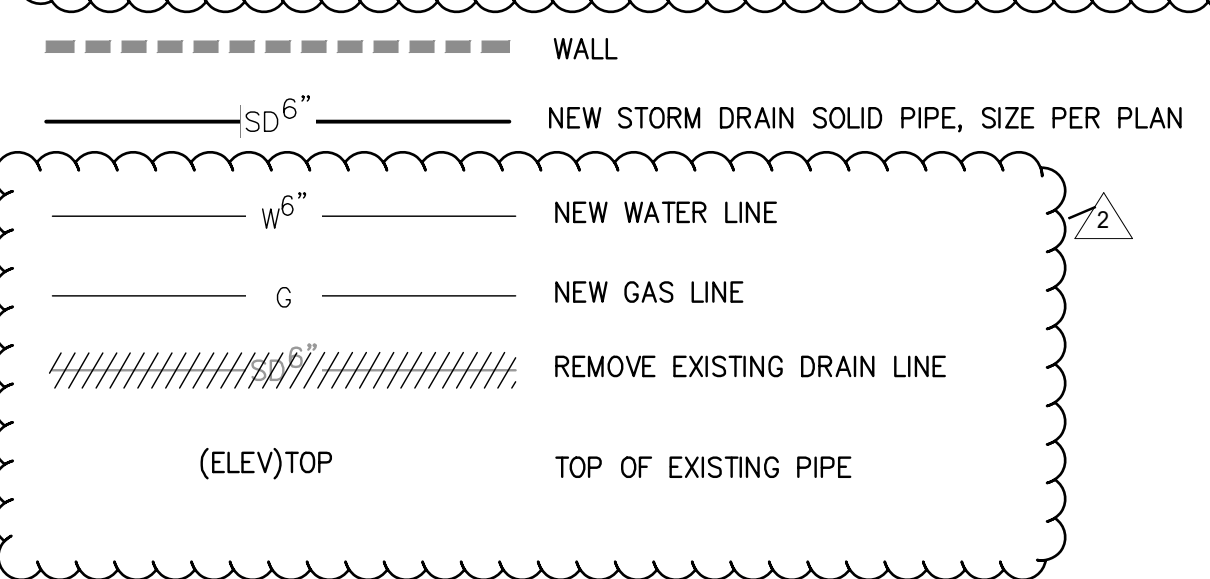
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 ▲ 06/02/23 Revision 2

SHEET TITLE:

UTILITY PLAN

PROJECT NO: 22-VCCCD-10 PROJECT ARCH: Designer
 DRAWN: Author CHECKED: Checker
 SHEET NUMBER:

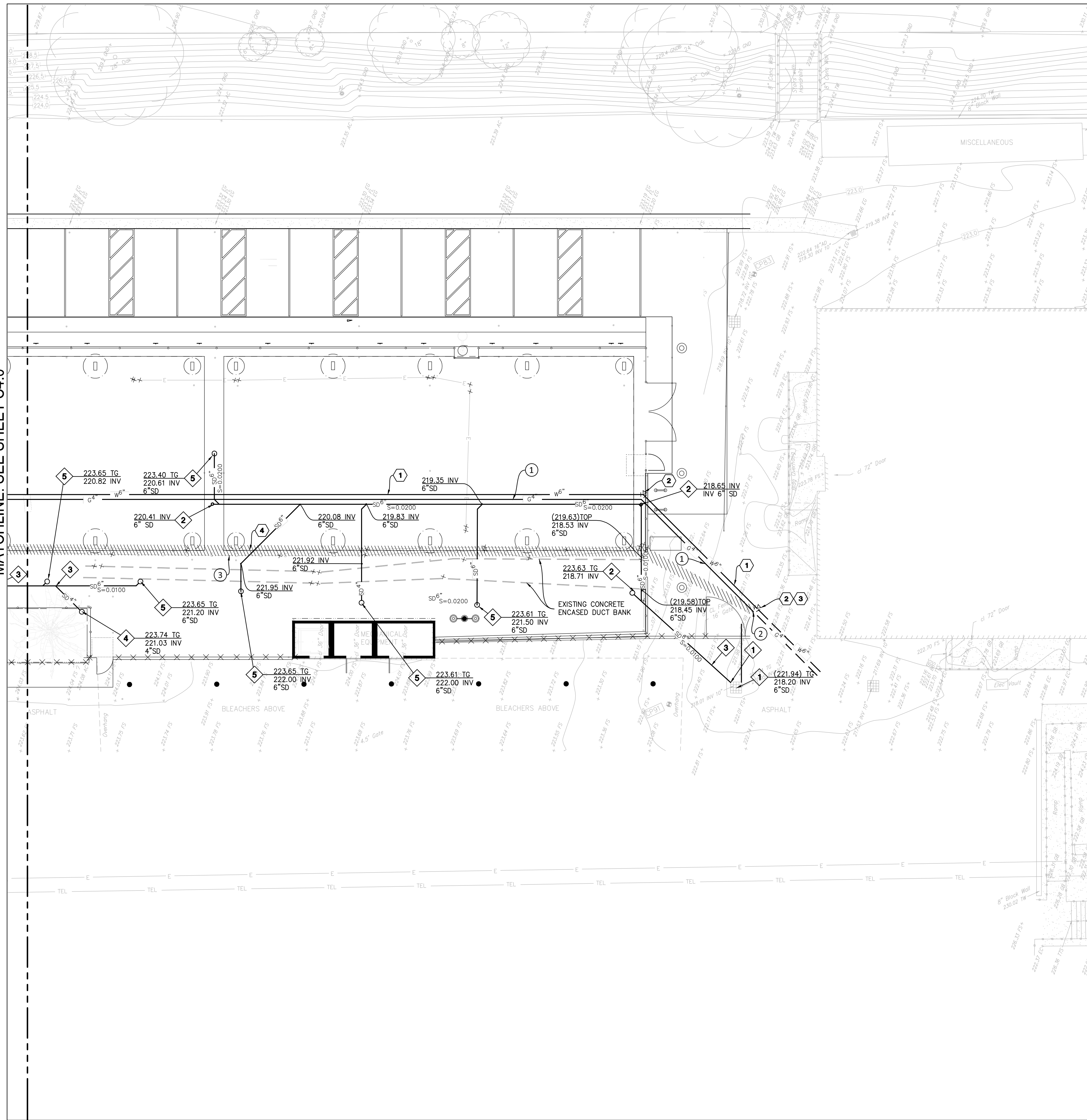
C4.1

DATE: SHEET: 7 OF

G:\Projects\Civil\LA30354_Ventura College_Civil Improvements_AWA Design\Coding\Area 4\2023-06-02\AREA4_C-4.00_UTILITY.dwg Date: 05/23/23 02:19: mhudson

MATCHLINE: SEE SHEET C4.0

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STORM DRAIN NOTES:

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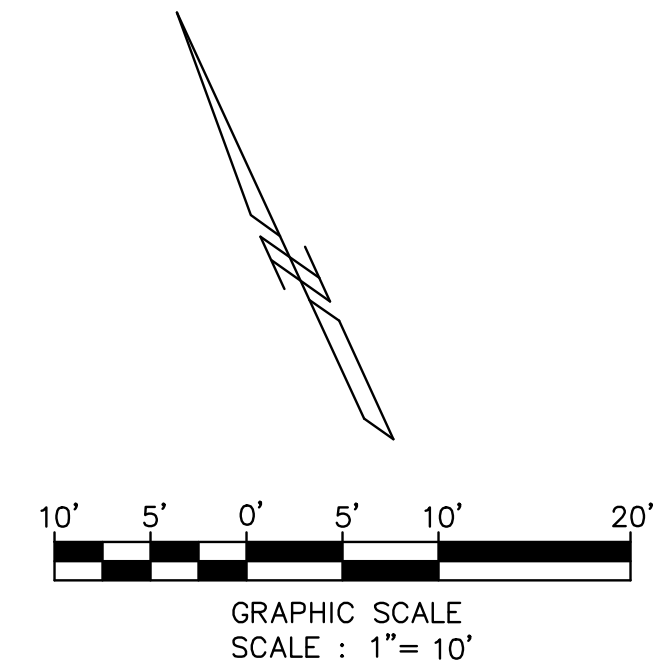
- 1. ALL PIPES SHALL BE BEDDED IN ACCORDANCE WITH DETAIL 5 ON SHEET C5.0
- 2. UNOCLOG, CLEAN AND FLUSH THE WORK AREA DRAINAGE SYSTEM AFTER PAVING AND IMMEDIATELY BEFORE A RAIN FORECAST.
- 3. WATER SERVICE LINE SHALL HAVE A MINIMUM OF 42" OF COVER OVER THE TOP OF PIPE
- 4. GAS LINE SHALL HAVE A MINIMUM OF 30" COVER OVER THE TOP OF PIPE
- 5. WHERE STORM DRAIN LINE IS WITHIN 5' OF THE COLUMN FOOTING PROVIDE SLURRY BACKFILL IN TRENCH FOR 10' CENTERED ON COLUMN FOOTING
- 6. CONTRACTOR SHALL LOCATE AND EXCAVATE THE UPSTREAM AND DOWNSTREAM POINT OF CONNECTIONS PRIOR TO TRENCHING UTILITY, NOTIFY ENGINEER IF PIPE SIZE AND ALIGNMENT DIFFER FROM WHAT IS SHOWN ON PLAN.

PIPE MATERIALS TO BE USED ON PROJECT:

- STORM DRAINAGE 15" AND SMALLER: PVC SCHEDULE 40 DWV
- WATER LINE: AWWA C900, CLASS 305 (DR14)
- GAS LINE: GAS COMPANY APPROVED (YELLOW) NATURAL GAS PIPES- POLYETHYLENE (PE) PLASTIC PIPE, PE FITTINGS, AND HEAT-FUSION JOINTS MEETING THE REQUIREMENTS OF ASTM D 2513, ASTM 3261, AND ASTM D 2683

LEGEND:

- WALL
- SD 6" NEW STORM DRAIN SOLID PIPE, SIZE PER PLAN
- W 6" NEW WATER LINE
- G NEW GAS LINE
- /////// REMOVE EXISTING DRAIN LINE
- (ELEV)TOP TOP OF EXISTING PIPE



DIVISION OF THE STATE ARCHITECT

VENTURA COUNTY COMMUNITY COLLEGE DISTRICT
1761 EAST DAILY DRIVE
CAMARILLO, CALIFORNIA 93010
TEL: (805) 652-5500

PROJECT TITLE AND SCHOOL LOCATION

VCCCD - #4 OUTDOOR WORKOUT - AEC
Campus Student Center
4667 Telegraph Road
Ventura, CA 93003

COMMISSIONED ARCHITECT

AMADOR

28328 AGOURA RD, 203 | AGOURA HILLS CA, 91301 | 805-558-4334
amadorwhitellarchitects, inc.

CONSULTANT

MOLLENHAUER GROUP

CIVIL ENGINEERING SURVEYING+MAPPING LAND DEVELOPMENT
213 624 2661 TEL
919 W. GLENOAKS BLVD., 2nd FLOOR
GLENDALE, CA 91202

STAMPS/SEALS

50% CONSTRUCTION DOCUMENTS	2022-10-04
100% CONSTRUCTION DOCUMENTS	2022-10-17
DSA SUBMITTAL	2022-12-07

SHEET TITLE:

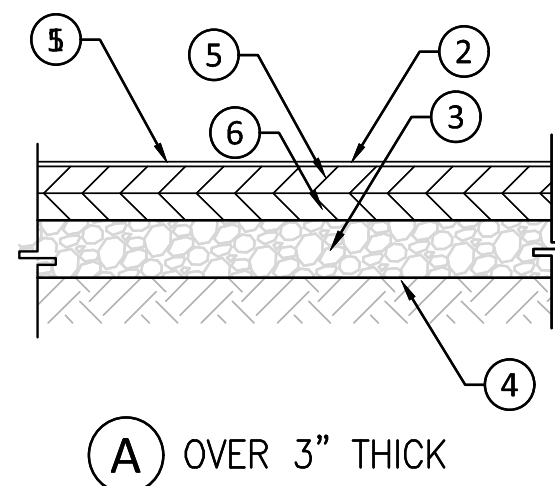
UTILITY PLAN

PROJECT NO: 22-VCCCD-10	PROJECT ARCH: Designer
DRAWN: Author	CHECKED: Checker
C4.1	
DATE:	SHEET: 7 OF

LOCATION	ASPHALT CONCRETE		BASE COURSE		
	THICKNESS	CLASS	THICKNESS EXISTING PAVED SITE	TYPE	GRADE
PARKING, FIRE LANE	6"	STATE 1/2" MIX	6"	CAB	FINE

LEGEND:

- 1 A.C. SURFACING
- 2 2 COATS OF SURFACE SEAL
- 3 BASE COURSE. COMPACT TO 95%
- 4 12" SUB-GRADE. COMPACT TO 95%. SEE NOTE
- 5 A.C. SURFACING STATE 1/2" MIX (3" MAX.)
- 6 A.C. SURFACING STATE 3/4" MIX

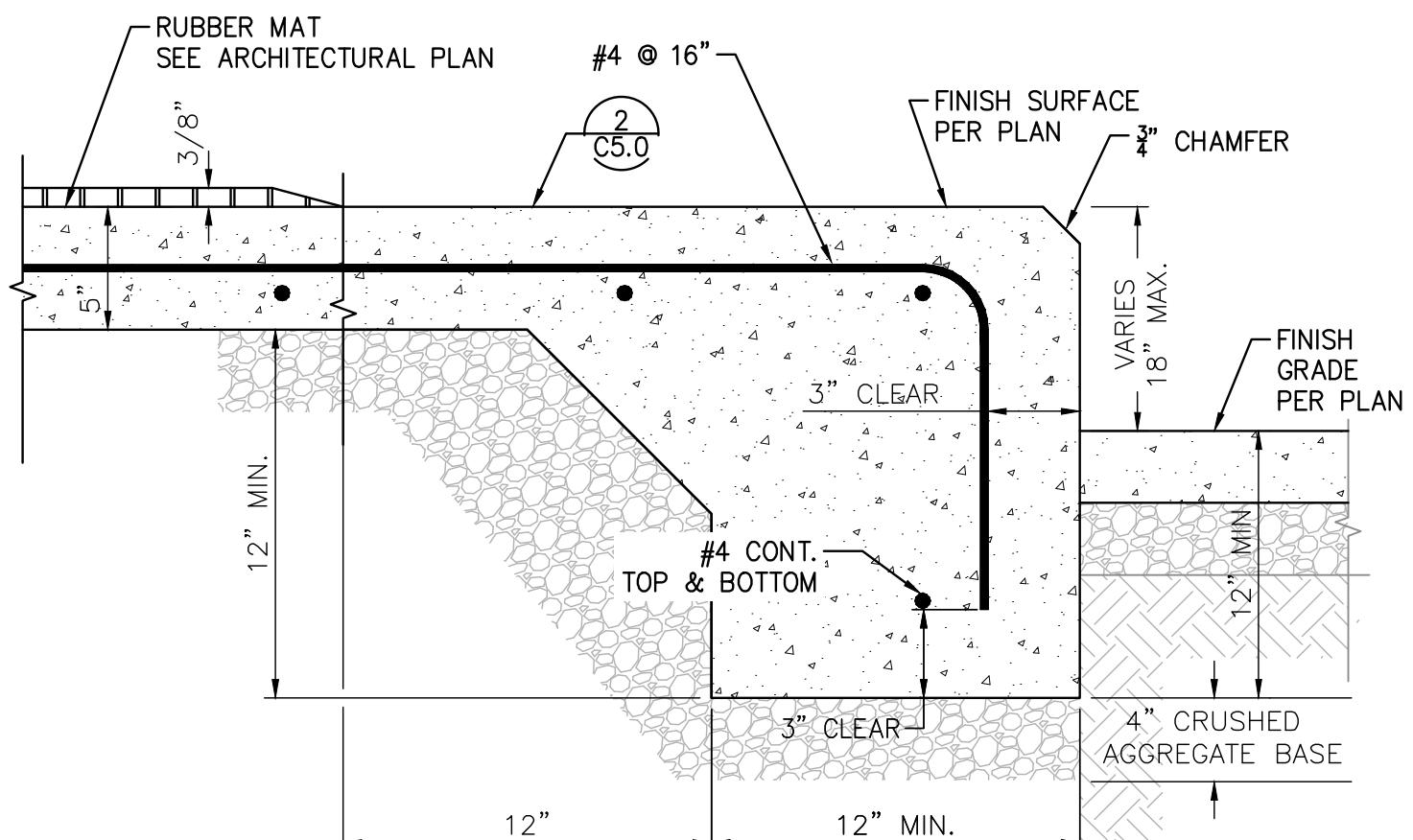


NOTE:

THE UPPER 1 FOOT OF SOIL SUBGRADE IN AREAS TO RECEIVE NEW ON-GRADE CONCRETE SHOULD BE COMPACTED TO A MINIMUM OF 95 PERCENT OF THE MAXIMUM DRY DENSITY DETERMINED BY ASTM D1557. THE SUBGRADE SHOULD BE REMOVED AND PROCESSED TO PEA-SIZED CONSISTENCY OR FINER AT BETWEEN 0 AND 2 PERCENT ABOVE OPTIMUM MOISTURE CONTENT PRIOR TO RECOMPACTION. SEE GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION

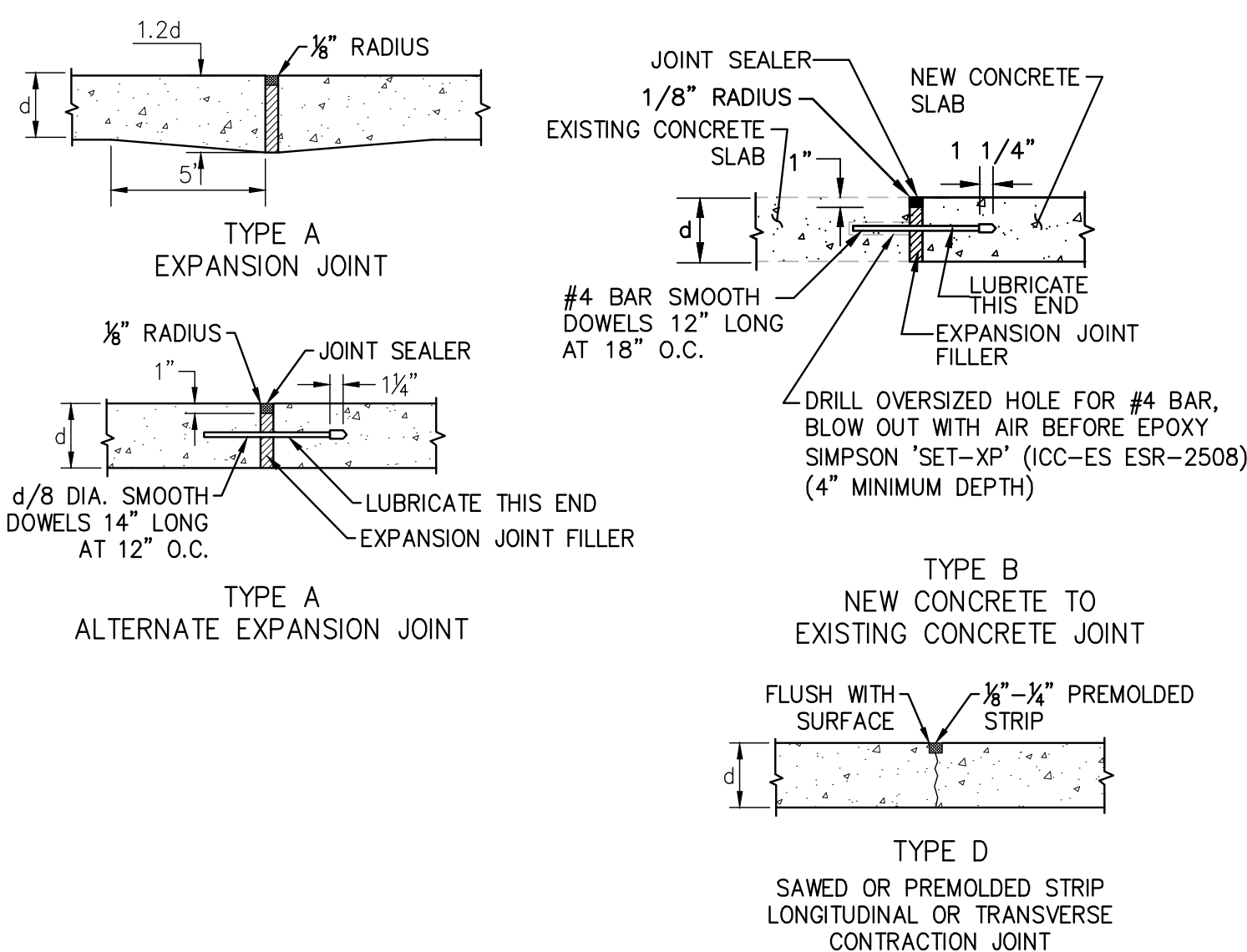
ASPHALT CONCRETE PAVEMENT

N.T.S. 1



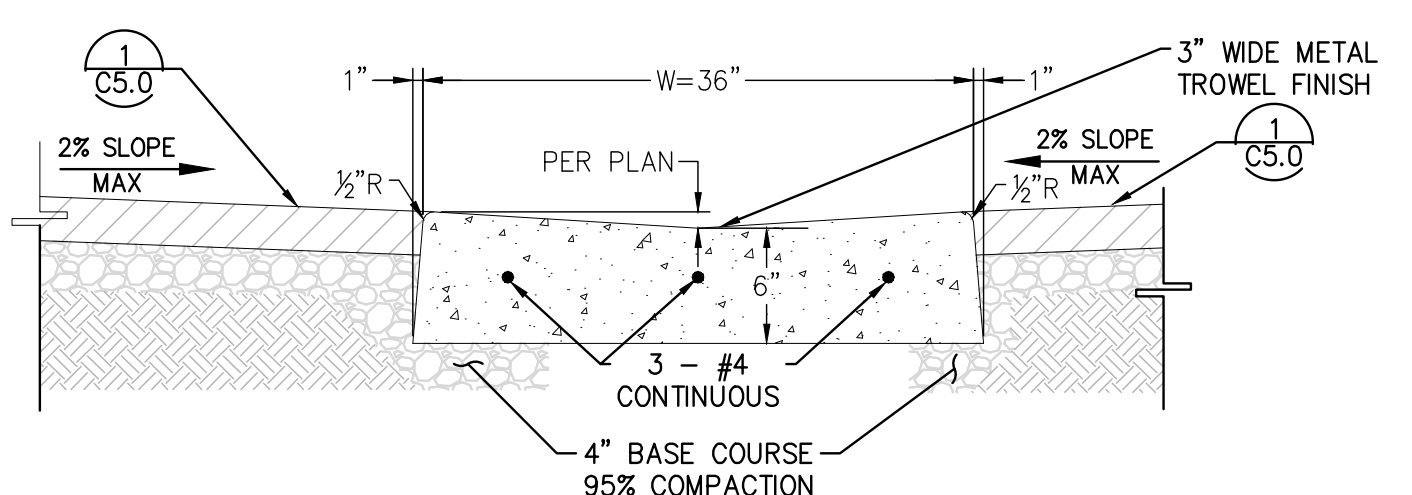
THICKENED EDGE

N.T.S. 3



CONCRETE JOINT DETAIL

N.T.S. 4



CONCRETE V-GUTTER

N.T.S. 13

NOTES:

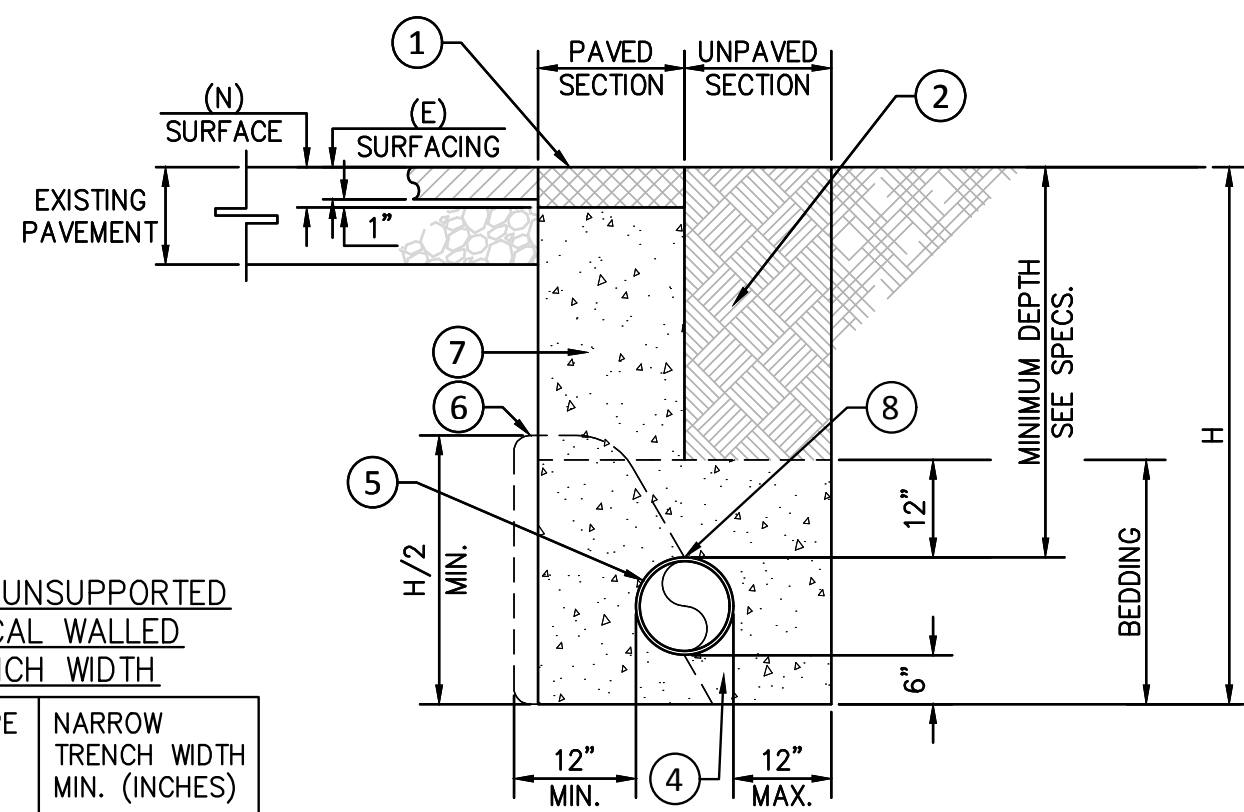
- 1 PORTLAND CEMENT CONCRETE PAVEMENT, f'c = 3,500 PSI
- 2 CRUSHED AGGREGATE BASE 95% OF MAXIMUM DENSITY
- 3 COMPACTED SUBGRADE 95% OF MAXIMUM DENSITY. SEE NOTE
- 4 #4 BARS @ 16" ON CENTER EACH WAY.

NOTE:

THE UPPER 1 FOOT OF SOIL SUBGRADE IN AREAS TO RECEIVE NEW ON-GRADE CONCRETE SHOULD BE COMPACTED TO A MINIMUM OF 95 PERCENT OF THE MAXIMUM DRY DENSITY DETERMINED BY ASTM D1557. THE SUBGRADE SHOULD BE REMOVED AND PROCESSED TO PEA-SIZED CONSISTENCY OR FINER AT BETWEEN 0 AND 2 PERCENT ABOVE OPTIMUM MOISTURE CONTENT PRIOR TO RECOMPACTION. SEE GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION

PORTLAND CEMENT CONCRETE PAVEMENT

N.T.S. 2



NARROW UNSUPPORTED VERTICAL WALLED TRENCH WIDTH

NOMINAL PIPE DIAMETER (INCHES)	NARROW TRENCH WIDTH MIN. (INCHES)
4	18
6	18
8	24
12	30

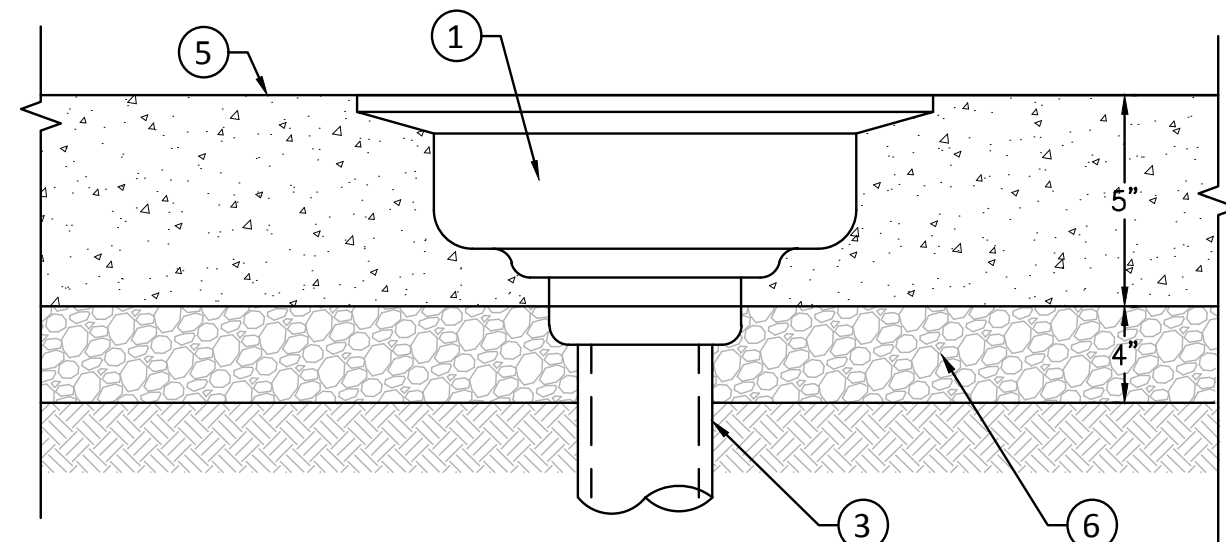
LEGEND:

- 1 IN PAVED AREAS, REPLACE SURFACING 1" GREATER THAN EXISTING IN KIND
- 2 BACKFILL WITH NATIVE OR IMPORTED MATERIAL PER SPECIFICATIONS 90% RELATIVE COMPACTION
- 3 FINISH GRADE
- 4 CONSOLIDATED WET FILL SAND OR APPROVED SELECT NATIVE MATERIALS PER SPECIFICATIONS 90% RELATIVE COMPACTION
- 5 PIPELINE
- 6 THRUST BLOCK
- 7 CEMENT-SAND SLURRY
- 8 PROVIDE TRACER WIRE OR WARNING TAPE FOR FUTURE UTILITY LOCATION

NOTE: PAVEMENT FINISH SURFACE SHALL BE A SMOOTH CONTINUATION OF ADJOINING PAVED SURFACE.

PIPE BEDDING

N.T.S. 5

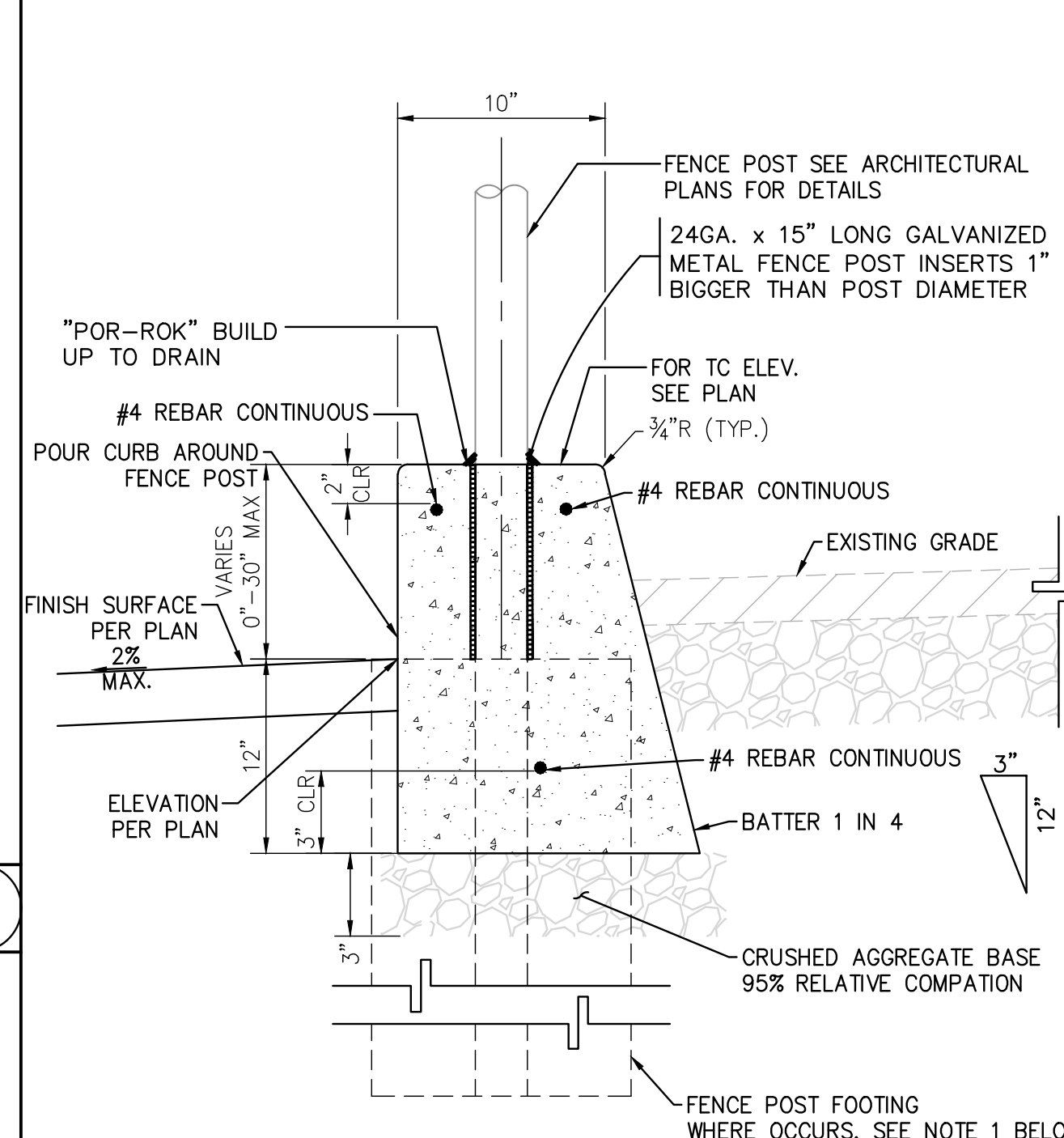


LEGEND:

- 1 GALVANIZED CAST IRON AREA DRAIN J.R. SMITH MODEL NO. 2330-GU OR APPROVED EQUIVALENT
- 2 NOT USED
- 3 6" DIAMETER PIPE
- 4 NOT USED
- 5 FINISH GRADE PER PLAN
- 6 CRUSHED AGGREGATE BASE

AREA DRAIN

N.T.S. 10

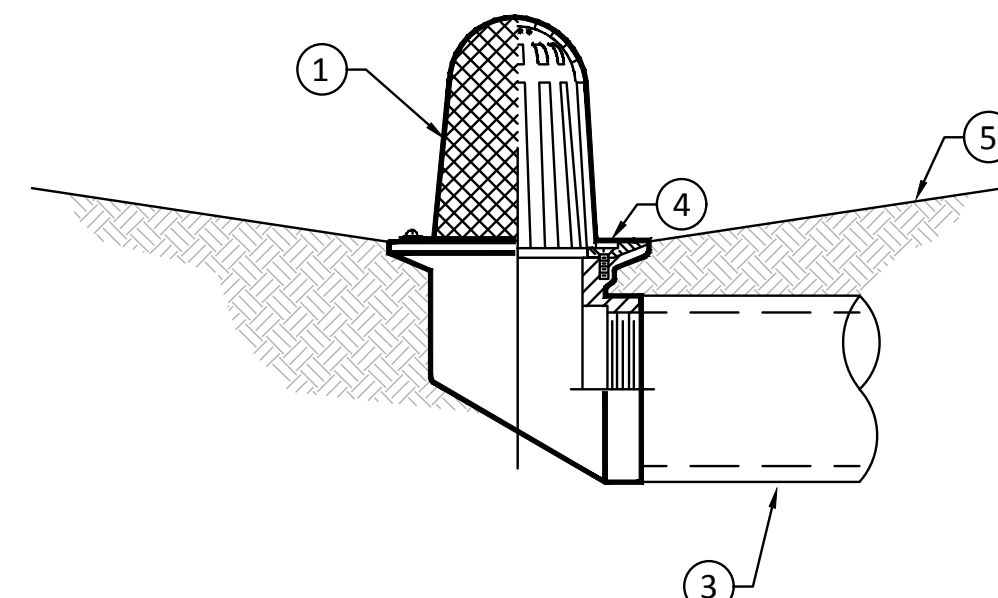


NOTES:

- 1. WHEN OVERALL HEIGHT OF WALL IS LESS THAN 22", STANDARD FENCE POST FOOTING SHALL BE CONSTRUCTED AND WALL POURED ON TOP.
- 2. PROVIDE EXPANSION JOINTS AT 30'-0" O.C. MAX.
- 3. TERMINATE REBARS 1'-1/2" FROM EXPANSION JOINT.

CONCRETE CURB AT FENCE

N.T.S. 6

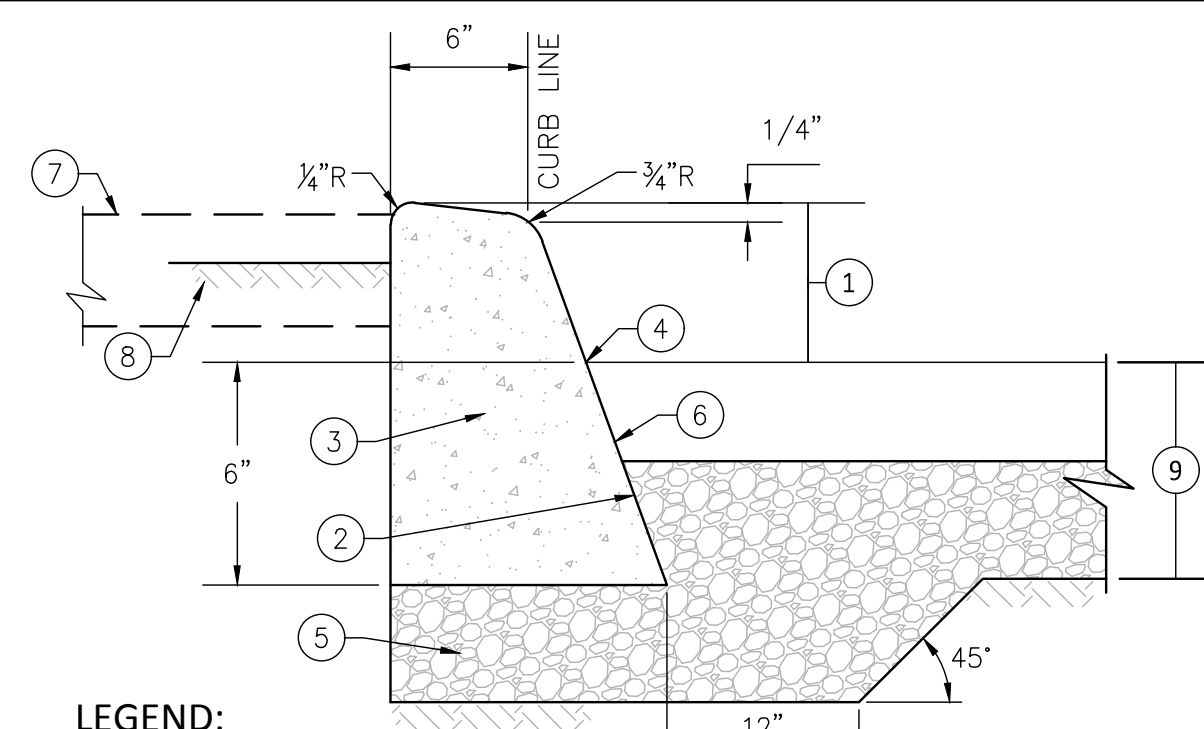


LEGEND:

- 1 GALVANIZED CAST IRON AREA DRAIN J.R. SMITH MODEL NO. 2674-GU OR APPROVED EQUIVALENT.
- 2 PORTLAND CEMENT CONCRETE PAD (PAD MAY BE EITHER ROUND OR SQUARE IN PLAN VIEW).
- 3 4" DIAMETER PIPE OUTLET.
- 4 TOP OF DRAIN ELEVATION PER PLAN.
- 5 FINISH GRADE PER PLAN.

ATRIUM DRAIN

N.T.S. 9

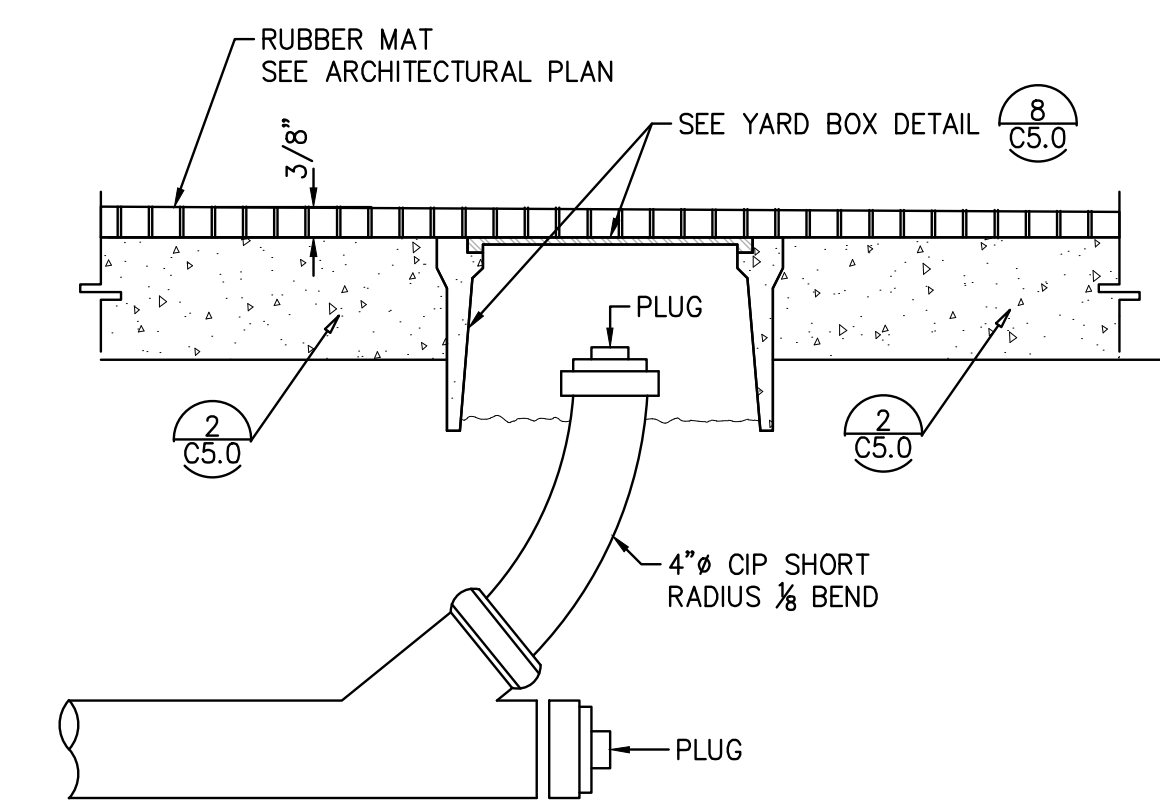


LEGEND:

- 1 CURB FACE (CF) SHALL BE 6" UNLESS OTHERWISE INDICATED.
- 2 BATTER 1 1/2:12.
- 3 PORTLAND CEMENT CONCRETE.
- 4 ELEVATION PER PLAN UNLESS OTHERWISE INDICATED.
- 5 BASE MATERIAL TO BE SAME THICKNESS AS ADJOINING PAVEMENT.
- 6 TACK COAT WHERE CURB ABUTS ASPHALT CONCRETE PAVEMENT.
- 7 SIDEWALK WHERE OCCURS (PREVENT BOND BETWEEN SIDEWALK AND CURB).
- 8 FINISH GRADE IN PLANTER AREAS TO BE 1/2" BELOW TOP OF CURB.
- 9 PAVEMENT SECTION PER PLAN.

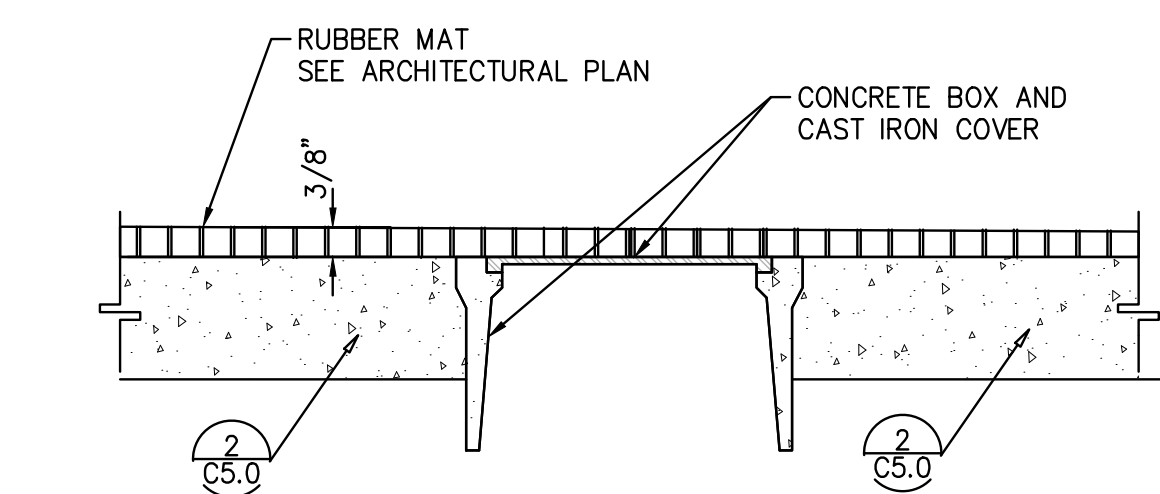
CONCRETE CURB

N.T.S. 11



SHALLOW CLEAN OUT

N.T.S. 7



NOTES:

- 1. "BROOKS" YARD BOX OR EQUAL WITH 9-1/2"x16" I.D. CONCRETE BOX (NO. 3 BODY) WITH 3-TL CAST IRON TRAFFIC COVER, UTILITY NAME (WATER, STORM DRAIN, SANITARY SEWER, POWER SPRINKLER, ETC.) EMBOSSED 1/16" ABOVE SURFACE, 1" HIGH UPPERCASE
- 2. ALL METAL PARTS SHALL BE GALVANIZED AFTER FABRICATION

YARD BOX

N.T.S. 8

DIVISION OF THE STATE ARCHITECT

VENTURA COUNTY COMMUNITY COLLEGE DISTRICT
 1761 EAST DAILY DRIVE
 CAMARILLO, CALIFORNIA 93010
 TEL: (805) 652-5500

PROJECT TITLE AND SCHOOL LOCATION

VCCCD - #4 OUTDOOR WORKOUT - AEC
 Campus Student Center
 4667 Telegraph Road
 Ventura, CA 93003

COMMISSIONED ARCHITECT

AMADOR
 28328 AGOURA RD, 203 | AGOURA HILLS CA, 91301 | 805-958-4334
 amadorwhite architects, inc.

CONSULTANT

MOLLENHAUER GROUP
 CIVIL ENGINEERING SURVEYING+MAPPING LAND DEVELOPMENT
 213 624 2661 TEL
 919 W. GLENOAKS BLVD., 2ND FLOOR
 GLENDALE, CA 91202

STAMPS/SEALS

PROJECT NO: 22-VCCCD-10 PROJECT ARCH: Designer
 DRAWN: Author CHECKED: Checker
 SHEET NUMBER: SHEET TITLE: **DETAILS**

50% CONSTRUCTION DOCUMENTS 2022-10-04
 100% CONSTRUCTION DOCUMENTS 2022-10-17
 DSA SUBMITTAL 2022-12-07
 06/02/23 Revision 2

C5.0

DATE: SHEET: 8 OF

G:\Projects\Civil\LA30354_Ventura College_Col Improvements.dwg (Drawing Area 4) 2023-06-02 AREA4_C-5.00_DETAL.dwg Date: 06/07/23 01:08g mahabave



VENTURA COUNTY COMMUNITY COLLEGE DISTRICT
 761 EAST DAILY DRIVE
 CAMARILLO, CALIFORNIA 93010
 TEL: (805) 652-5500

PROJECT TITLE AND SCHOOL LOCATION

A#03-122956 OUTDOOR WORKOUT SPACE
 Ventura Community College
 4667 Telegraph Road
 Ventura, CA 93003

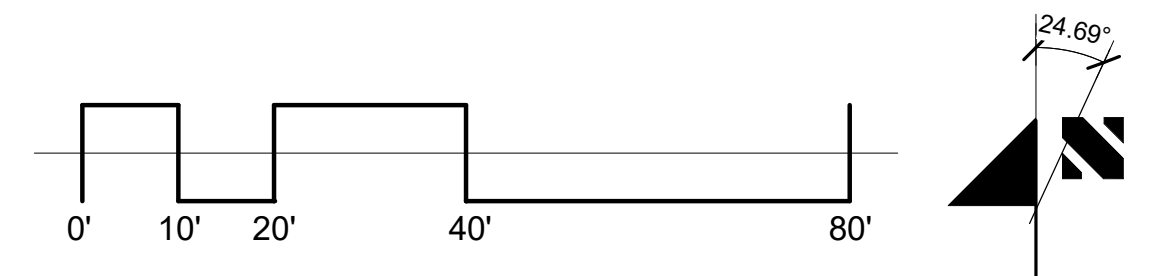
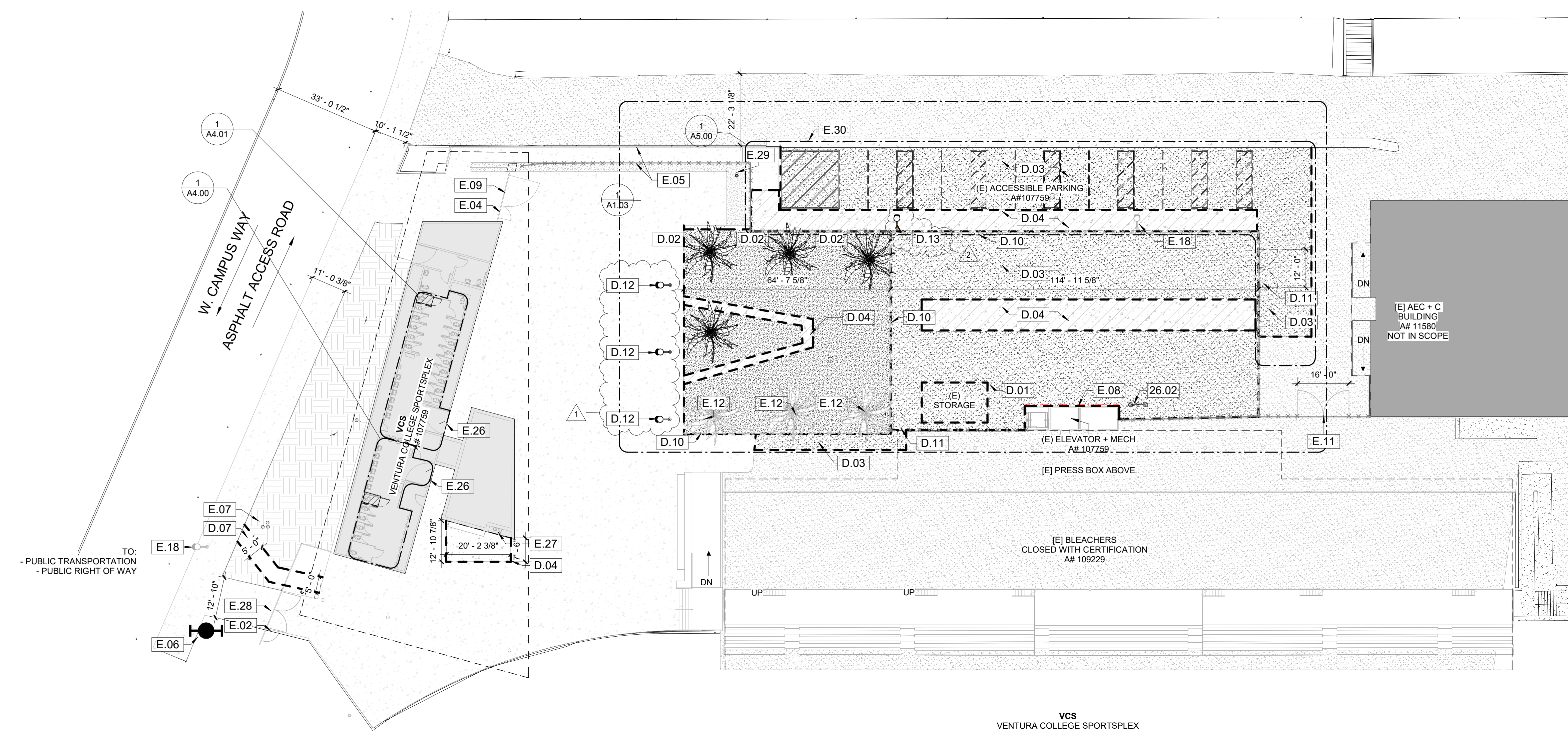
COMMISSIONED ARCHITECT

AMADOR

28328 AGOURA RD, 203 | AGOURA HILLS CA, 91301 | 955-558-4334
 amador@amadorarchitects.com

CONSULTANT

STAMPS/SEALS



4 - SITE PLAN: EXISTING 1" = 20'-0" 1

LEGEND

	(N) ACCESSIBLE PATH OF TRAVEL		AREA OF WORK
	VEHICULAR FIRE ACCESS		TO BE DEMOLISHED / REMOVED PROPERTY LINE
	FIRE ACCESS		SCOPE OF WORK IN EXISTING BUILDING
	(E) POLE LIGHT		20'-0" WIDE FIRE DEPT. ACCESS
	(E) AREA LIGHT		DEMO (E) ASPHALT
	WATER LINE ACCESS		(E) ASPHALT
	FIRE HYDRANT		(N) ASPHALT
	(NEW) 8' - 0" FENCE/GATE		DEMO (E) CONCRETE
	EXISTING FENCE/GATE		(E) CONCRETE
	DEMOLISH FENCE/GATE		(N) CONCRETE
			DEMO (E) DECOMPOSED GRANITE
			(E) DECOMPOSED GRANITE
			DEMO (E) LANDSCAPE
			(E) LANDSCAPE
			(N) RUBBER MAT

DEMOLITION KEYNOTES

D#	Description
D.01	REMOVE AND STORE (E) STORAGE CONTAINER; RE-LOCATION BY CLIENT
D.02	REMOVE (E) PALM TREES AND PREPARE FOR RELOCATION
D.03	DEMOLISH (E) ASPHALT; SEE CIVIL SHEETS
D.04	DEMOLISH (E) CONCRETE; SEE CIVIL SHEETS
D.07	DEMOLISH (E) LANDSCAPE FOR (N) WALKWAY, SEE C2.0
D.10	DEMOLISH (E) FENCE
D.11	DEMOLISH (E) GATE
D.12	DEMOLISH (E) LIGHT POST, REFER TO ELECTRICAL FOR RELOCATED LIGHT POLES. CAP ELECTRICAL BELOW THE SLAB & PATCH CIRCLE AREA OF SLAB.
D.13	DEMOLISH (E) LIGHT POLE, REFER TO ELECTRICAL FOR NEW LIGHT POLE. CAP ELECTRICAL BELOW GRADE.

EXISTING KEYNOTES

E#	Description
E.02	(E) 48" X 48" CHAIN LINK GATE
E.04	(E) 60" X 96" CHAIN LINK GATE, WITH SIGN "GATE TO REMAIN IN THE OPEN POSITION DURING ANY PUBLIC FUNCTION"
E.05	(E) 8' TALL CHAIN LINK FENCE
E.06	(E) FIRE HYDRANT
E.07	(E) WATER LINE ACCESS
E.08	(E) 1-HR FIRE-RATED WALL (A#107759)
E.09	(E) 120" X 96" CHAIN LINK GATE
E.11	(E) 192" X 96" CHAIN LINK GATE
E.12	(E) PROTECT DATE PALMS
E.18	(E) AREA LIGHT, PROTECT IN PLACE
E.26	(E) CONTROLLED GATE PER A03-107759
E.27	(E) DRINKING FOUNTAIN
E.28	(E) 144" X 94.5" CHAIN LINK GATE, WITH SIGN "NOT AN ACCESSIBLE ENTRANCE"
E.29	(E) IRRIGATION VALVE
E.30	(E) CONCRETE GUTTER, SEE CIVIL C3.1.

GENERAL NOTES - SITE DEMOLITION

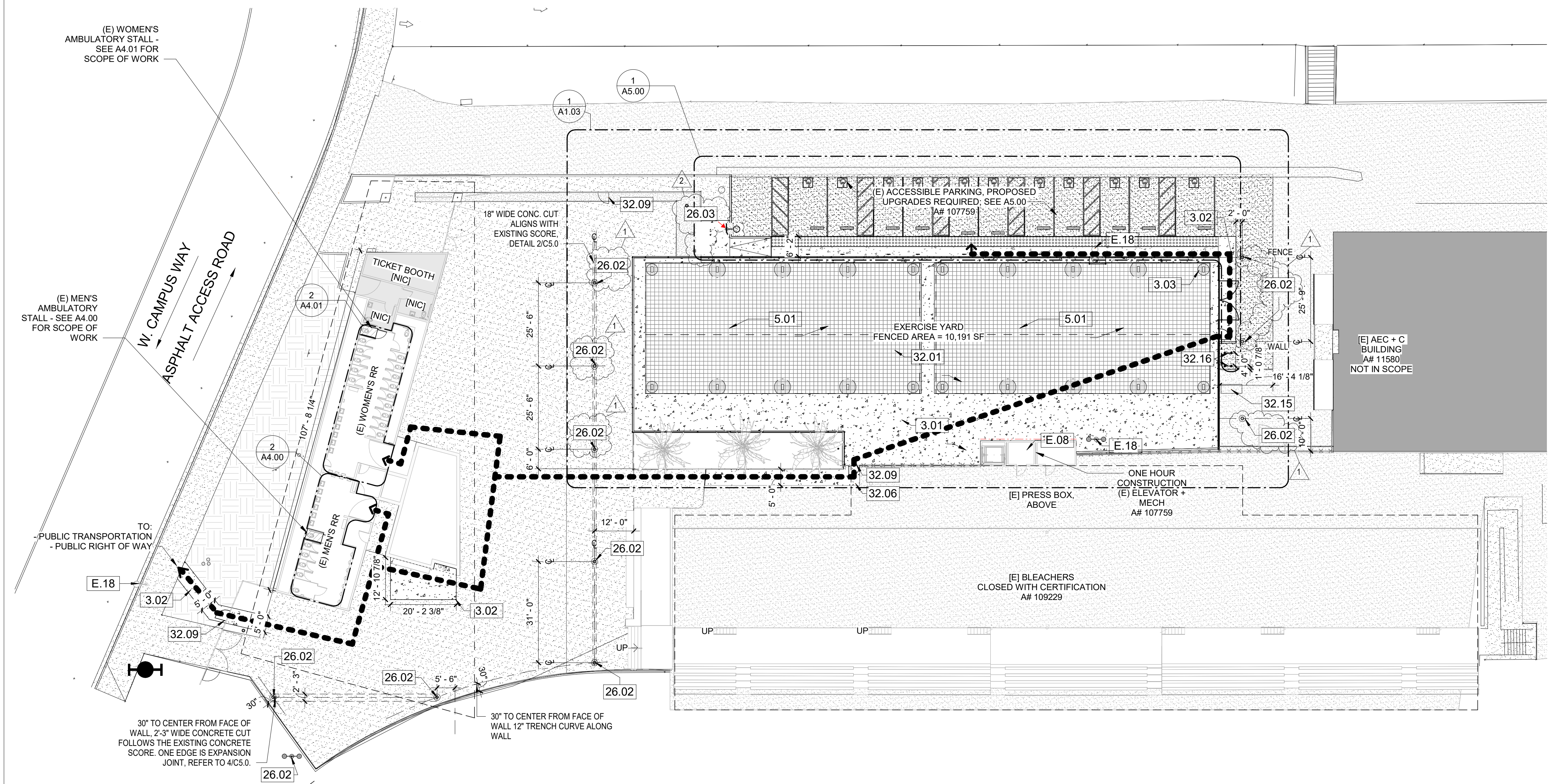
- EXECUTE ALL DEMOLITION REQUIRED FOR COMPLETION OF THE WORK.
- KEEP SITE AND ADJACENT AREAS CLEAN AND UNOBSTRUCTED. COORDINATE WITH THE VCCCD PROJECT MANAGER.
- REMOVE OR RELOCATE EXISTING POWER, DATA, IRRIGATION, PLUMBING AND OTHER UTILITIES AS REQUIRED TO ACCOMMODATE THE NEW IMPROVEMENTS.
- NO DEMOLITION SHALL BEGIN UNTIL PLANS INCLUDING THE DEMOLITION WORK HAVE BEEN APPROVED BY DSA.

SITE PLAN - DEMO

PROJECT NO: 22-VCCCD-10 PROJECT ARCH: Designer
 DRAWN: Author CHECKED: Checker
 SHEET NUMBER:

A1.01

DATE: 12/07/2022 SHEET: OF



DESIGN PROFESSIONAL RESPONSIBLE CHARGE STATEMENT

THE P.O.T. IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS IS COMPLIANT WITH THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS AND STRUCTURAL REPAIRS. AS PART OF THE DESIGN OF THIS PROJECT, THE P.O.T. WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTIONS OF THE P.O.T. THAT WERE DETERMINED TO BE CONCOMPLIANT 1) HAVE BEEN IDENTIFIED AND 2) THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECT'S WORK THROUGH DETAILS, DRAWINGS AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS. ANY NONCOMPLIANT ELEMENTS, COMPONENTS OR PORTION OF THE P.O.T. THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR A FINDING OF UNREASONABLE HARDSHIP ARE SO INDICATED IN THESE CONSTRUCTION DOCUMENTS.

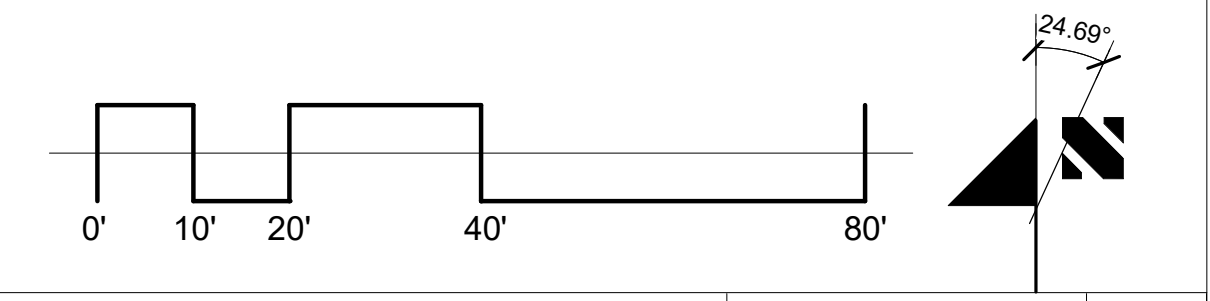
DURING CONSTRUCTION, IF P.O.T. ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CODE COMPLIANT ARE FOUND TO BE NONCONFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THEY SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS A PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT.

DSA IR A-4 METAL STRUCTURES, GEOLOGICAL SURVEY

3.2 EXISTING SITES OUTSIDE OF A MAPPED GEOLOGIC HAZARD ZONE:
 IN ADDITION TO THE PROJECT SCOPES DESCRIBED IN SECTION 3.1 ABOVE, PROJECTS ON EXISTING SITES WHICH ARE OUTSIDE OF A "MAPPED GEOLOGIC HAZARD ZONE" (AS DEFINED IN SECTION 4 BELOW) ARE EXEMPT FROM THE REQUIREMENT TO PROVIDE A GEOHAZARD REPORT IF THEIR SCOPE IS LIMITED TO THE FOLLOWING:
 3.2.3 OPEN METAL SITE STRUCTURES (E.G., STRUCTURAL STEEL, ALUMINUM, ETC.) SEISMICALLY SEPARATED INTO AREAS OF 4,000 SQ. FT. OR LESS IN COVERED AREA INCLUDING ALL OVERHANGS. SUCH STRUCTURES MAY INCLUDE BUT ARE NOT LIMITED TO SHADE STRUCTURES, BLEACHERS, CANOPIES AND CARPORTS.
4. MAPPED GEOLOGIC HAZARD ZONE
 A MAPPED GEOLOGIC HAZARD ZONE AS USED IN THIS IR ARE THOSE DESIGNATED BY CGS OR THE LOCAL JURISDICTION IN ACCORDANCE WITH CBC SECTION 1803A.6, EXCEPTION 1. TO DATE CGS HAS MAPPED EARTHQUAKE FAULT HAZARD ZONES THROUGHOUT THE STATE, AND LIQUEFACTION HAZARD ZONES AND LANDSLIDE HAZARD ZONES IN SELECTED REGIONS. MAPPED GEOLOGIC HAZARD ZONES DESIGNATED BY CGS, AS WELL AS THOSE REGIONS YET TO BE EVALUATED, CAN BE FOUND THROUGH THE WEB-BASED EARTHQUAKE ZONES OF REQUIRED INVESTIGATION TOOL MANAGED BY CGS.
 VENTURA COLLEGE IS MAPPED IN THE GEOLOGIC HAZARD ZONE AND HAS BEEN EXEMPTED FROM REQUIREMENT BY PRE-DSA MEETING 09-28-2022 BASED ON PREVIOUSLY EVALUATED GEOHAZARDS AND FOR WHICH THE CALIFORNIA GEOLOGICAL SURVEY (CGS) DEEMED THOSE PREVIOUSLY-SUBMITTED STUDIES ADEQUATELY ADDRESSED FAULT RUPTURE AND LIQUEFACTION HAZARDS AS NEGLIGIBLE.

DSA CERTIFICATION OF ADJACENT BUILDINGS

- (E) VENTURA COLLEGE SPORTSPLEX (VCS) A# 107759 WAS CERTIFIED 3/20/2013
- (E) VENTURA COLLEGE SPORTSPLEX- BLEACHERS A#109229 WAS CERTIFIED 3/24/2010



4 - SITE PLAN: NEW 1" = 20'-0" 2

LEGEND	
	(N) ACCESSIBLE PATH OF TRAVEL
	VEHICULAR FIRE ACCESS
	FIRE ACCESS
	(E) POLE LIGHT
	(E) AREA LIGHT
	WATER LINE ACCESS
	FIRE HYDRANT
	(NEW) 8' - 0" FENCE/GATE
	EXISTING FENCE/GATE
	DEMOLISH FENCE/GATE
	AREA OF WORK
	TO BE DEMOLISHED / REMOVED PROPERTY LINE
	BLDG SCOPE OF WORK IN EXISTING BUILDING
	20'-0" WIDE FIRE DEPT. ACCESS
	DEMO (E) ASPHALT
	(E) ASPHALT
	(N) ASPHALT
	DEMO (E) CONCRETE
	(E) CONCRETE
	(N) CONCRETE
	DEMO (E) DECOMPOSED GRANITE
	(E) DECOMPOSED GRANITE
	DEMO (E) LANDSCAPE
	(E) LANDSCAPE
	(N) RUBBER MAT

CODE ANALYSIS	
NEW SHADE STRUCTURES	
1. OCCUPANCY GROUP:	A-3
2. CONSTRUCTION TYPE:	II - B
3. NUMBER OF STORIES:	1
4. STRUCTURE HEIGHT:	18' - 8"
5. STRUCTURE AREA: ENCLOSED AREA	0 SF
COVERED AREA (1 SHADE STRUCTURES)	3360 SF
COVERED AREA (1 SHADE STRUCTURES)	3360 SF
TOTAL	6,720 SF NEW COVERED AREA
6. FIRE SPRINKLERS:	NOT REQUIRED
7. EXITS REQUIRED:	2
FENCED AREA:	10,191 SF
OCC. LOAD FACTOR FOR EXERCISE ROOM:	1/50 SF
TOTAL OCCUPANTS:	203
EXITS REQUIRED:	2
8. ROOF CLASS:	A

EXISTING KEYNOTES	
E.08	(E) 1-HR FIRE-RATED WALL (A#107759)
E.18	(E) AREA LIGHT, PROTECT IN PLACE

E#	KEYNOTES
3.01	(N) CONCRETE, REFER TO DETAIL 11/C5.0 AND 2/A5.01
3.02	(N) CONCRETE PAVING, <2% CROSS SLOPE, REFER TO DETAIL 3/C5.0
3.03	(N) CONCRETE PIER, POUR CONCRETE SLAB BELOW RUBBER MAT, REFER TO LS4.0
5.01	(N) PARK PLANET SHADE STRUCTURE; STRUCTURE: MATTE BLACK; ROOF: BONE WHITE, SEE LS SHEETS
26.02	(N) POLE LIGHT, SEE ELECTRICAL SHEETS, 24" DIA. CONC. PEDESTAL, DETAIL 2/E602
26.03	(N) POLE LIGHT, SEE ELECTRICAL SHEETS, 24" DIA. CONC. PEDESTAL, DETAIL 2/E602
32.01	(N) RUBBER MAT, REFER TO DETAIL 2/A5.01
32.06	(N) CONCRETE SIDEWALK, <1.5% CROSS SLOPE, REFER TO DETAIL 2/C5.0
32.09	(N) 40" X 96" CHAIN LINK PEDESTRIAN GATE WITH PANIC HARDWARE IN (E) CHAIN-LINK FENCE, REFER TO DETAIL 4/A5.01
32.15	(N) BICYCLE STORAGE UNIT, ECOPARK STANDARD MODEL, TWO DOOR, SANDSTONE, RAL 1019, T-HANDLE, KEYED.
32.16	(N) BICYCLE U RACK W/ CROSS BAR MODEL, STANDARD: BLACK PLASTISOL, SURFACE MOUNT

GENERAL NOTES - SITE NEW	
1.	ALL FIRE ACCESS ROADS, ACCESS GATES, FIRE HYDRANTS AND FIRE FLOW ARE EXISTING TO REMAIN UNMODIFIED
2.	REFER TO CIVIL PLANS FOR NEW CONCRETE SIDEWALK AND ASPHALT PAVING GRADES.
3.	FOR WALKWAYS, THE SLOPE IN THE DIRECTION OF TRAVEL SHALL NOT EXCEED 1:20 GRADIENT (5.0%) AND CROSS SLOPE SHALL NOT EXCEED 1:50 GRADIENT (2.0%), WITH A MINIMUM WIDTH OF FORTY EIGHT INCHES (48"). CBC 1133B.7.3 & 1133B.7.1.3
4.	UNAUTHORIZED PARKING SIGN IS SHOWN ON SHEET G0.03

DIVISION OF THE STATE ARCHITECT

VENTURA COUNTY COMMUNITY COLLEGE DISTRICT
 761 EAST DAILY DRIVE
 CAMARILLO, CALIFORNIA 93010
 TEL: (805) 652-5500

PROJECT TITLE AND SCHOOL LOCATION
A#03-122956 OUTDOOR WORKOUT SPACE
 Ventura Community College
 4667 Telegraph Road
 Ventura, CA 93003

COMMISSIONED ARCHITECT

AMADOR

amador@whitearchitects.com
 28328 AGOURA RD, 203 | AGOURA HILLS CA, 91301 | 955-558-4334

CONSULTANT

STAMPS/SEALS

04/18/23 Revision 1
 06/02/23 Revision 2

SITE PLAN - NEW CONSTRUCTION

PROJECT NO: 22-VCCCD-10 PROJECT ARCH: Designer
 DRAWN: Author CHECKED: Checker
 SHEET NUMBER: **A1.02**

DATE: 12/07/2022 SHEET: OF



VENTURA COUNTY COMMUNITY COLLEGE DISTRICT
 761 EAST DAILY DRIVE
 CAMARILLO, CALIFORNIA 93010
 TEL: (805) 652-5500

PROJECT TITLE AND SCHOOL LOCATION

A#03-122956 OUTDOOR WORKOUT SPACE
 Ventura Community College
 4667 Telegraph Road
 Ventura, CA 93003

COMMISSIONED ARCHITECT

AMADÒR

amador while architects, inc.
 28328 AGOURA RD. 203 | AGOURA HILLS CA, 91301 | 805-558-4334

CONSULTANT

STAMPS/SEALS



04/18/23 Revision 1
 06/02/23 Revision 2

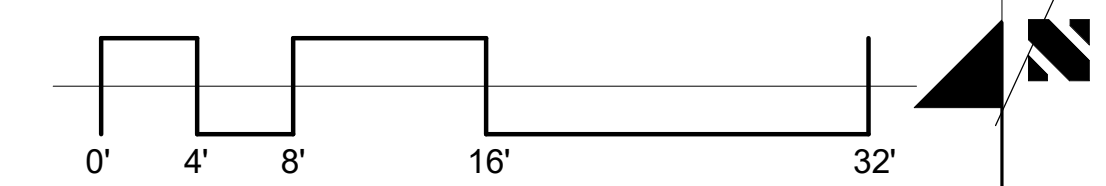
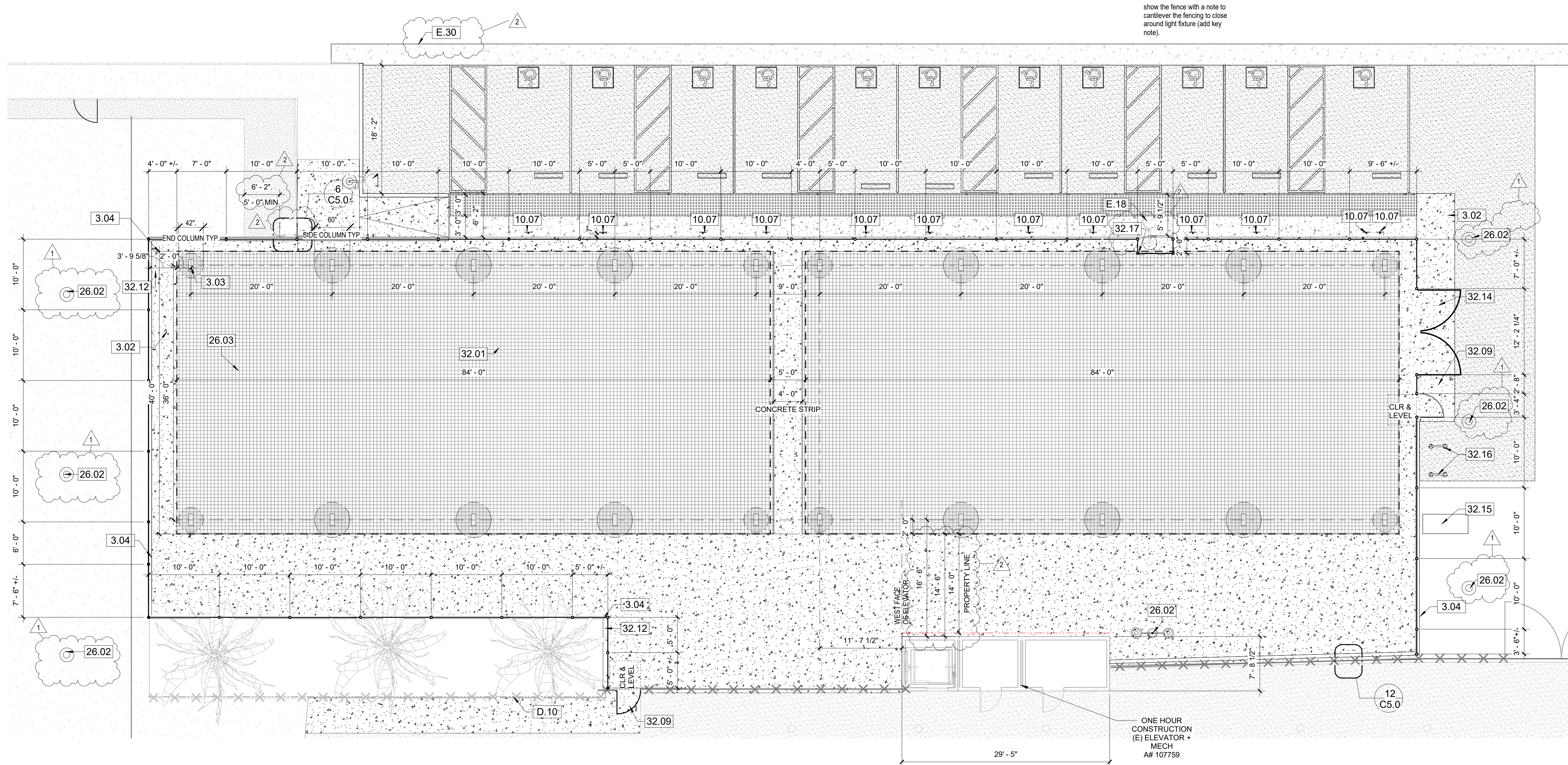
FLOOR PLAN DETAIL

PROJECT NO: 22-VCCCD-10 PROJECT ARCH: Designer
 DRAWN: Author CHECKED: Checker

SHEET NUMBER: **A1.03**

DATE: 12/07/2022 SHEET: OF

show the fence with a note to cantilever the fencing to close around light fixture (add key note).



FLOORING DETAIL 1/8" = 1'-0" 1

LEGEND	
	(N) ACCESSIBLE PATH OF TRAVEL
	VEHICULAR FIRE ACCESS
	FIRE ACCESS
	(E) POLE LIGHT
	(E) AREA LIGHT
	WATER LINE ACCESS
	FIRE HYDRANT
	(NEW) 8'-0" FENCE/GATE
	EXISTING FENCE/GATE
	DEMOLISH FENCE/GATE
	AREA OF WORK
	TO BE DEMOLISHED / REMOVED PROPERTY LINE
	BLDG SCOPE OF WORK IN EXISTING BUILDING
	20'-0" WIDE FIRE DEPT. ACCESS
	DEMO (E) ASPHALT
	(E) ASPHALT
	(N) ASPHALT
	DEMO (E) CONCRETE
	(E) CONCRETE
	(N) CONCRETE
	DEMO (E) DECOMPOSED GRANITE
	(E) DECOMPOSED GRANITE
	DEMO (E) LANDSCAPE
	(E) LANDSCAPE
	(N) RUBBER MAT

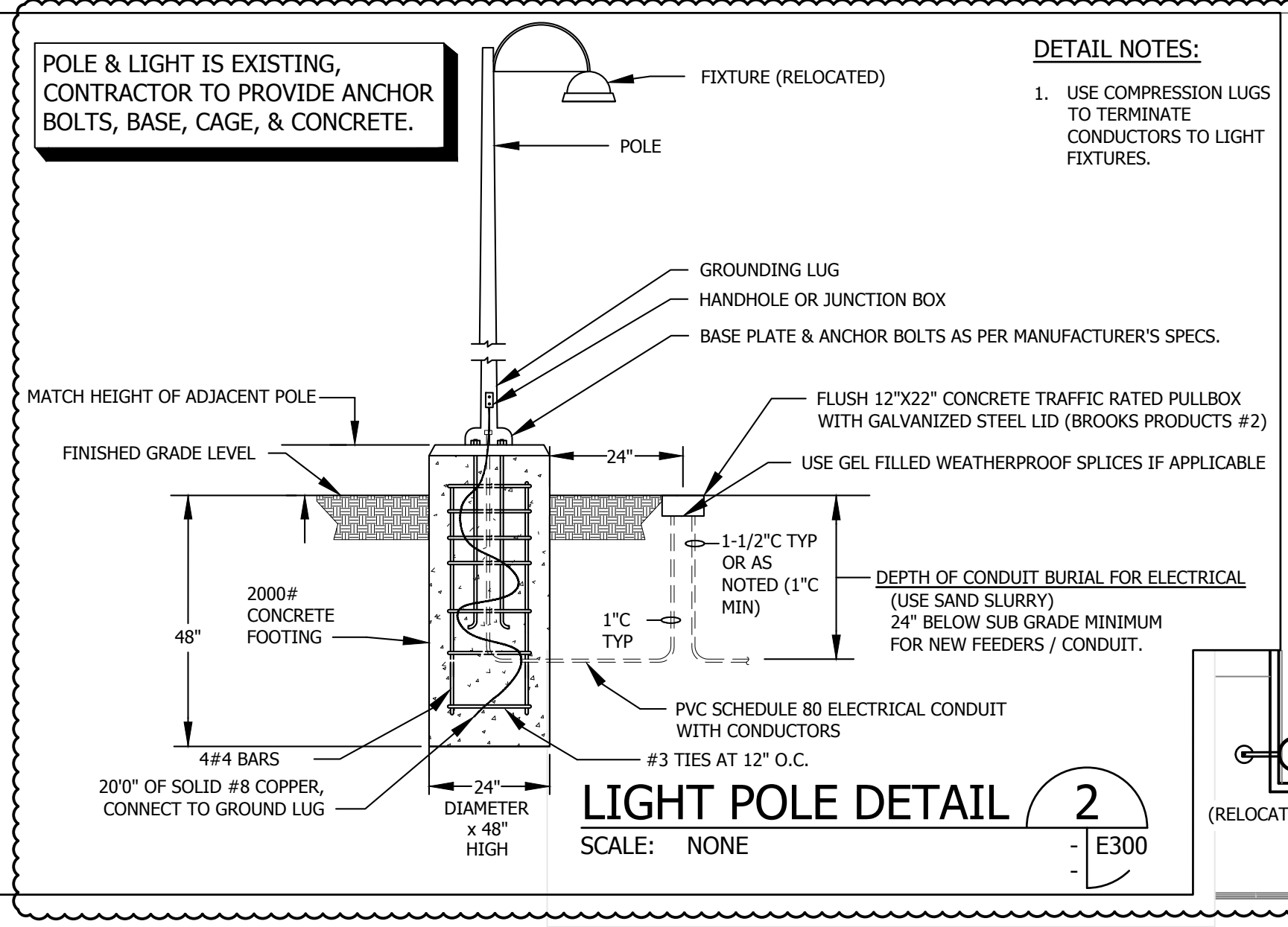
EXISTING KEYNOTES

- E.18 (E) AREA LIGHT, PROTECT IN PLACE
- E.30 (E) CONCRETE GUTTER, SEE CIVIL C3.1.

KEYNOTES

- 3.02 (N) CONCRETE PAVING, <2% CROSS SLOPE, REFER TO DETAIL 3/C5.0
- 3.03 (N) CONCRETE PIER, POUR CONCRETE SLAB BELOW RUBBER MAT, REFER TO LS4.0
- 3.04 (N) CURB, SEE CIVIL SHEETS
- 10.07 (N) EXISTING VEHICLE TOW AWAY SIGN, PER DETAIL 4/A.500
- 26.02 (N) POLE LIGHT, SEE ELECTRICAL SHEETS. 24" DIA. CONC. PEDESTAL, DETAIL 2/E602.
- 26.03 (N) POLE LIGHT, SEE ELECTRICAL SHEETS. 24" DIA. CONC. PEDESTAL, DETAIL 2/E602.
- 32.01 (N) RUBBER MAT, REFER TO DETAIL 2/A5.01
- 32.09 (N) 40" X 96" CHAIN LINK PEDESTRIAN GATE WITH PANIC HARDWARE IN (E) CHAIN-LINK FENCE, REFER TO DETAIL 4/A5.01
- 32.12 (N) 8' FENCE, MATCH (E); HANG BLACK PRIVACY FABRIC ON OUTDOOR WORKOUT SIDE
- 32.14 (N) 144" X 94.5" CHAIN LINK GATE
- 32.15 (N) BICYCLE STORAGE UNIT, ECOPARK STANDARD MODEL, TWO DOOR, SANDSTONE, RAL 1019, T-HANDLE, KEYS.
- 32.16 (N) BICYCLE U RACK W/ CROSS BAR MODEL, STANDARD: BLACK PLASTISOL, SURFACE MOUNT
- 32.17 CANTILEVER THE FENCING TO CLOSE AROUND LIGHT FIXTURE.

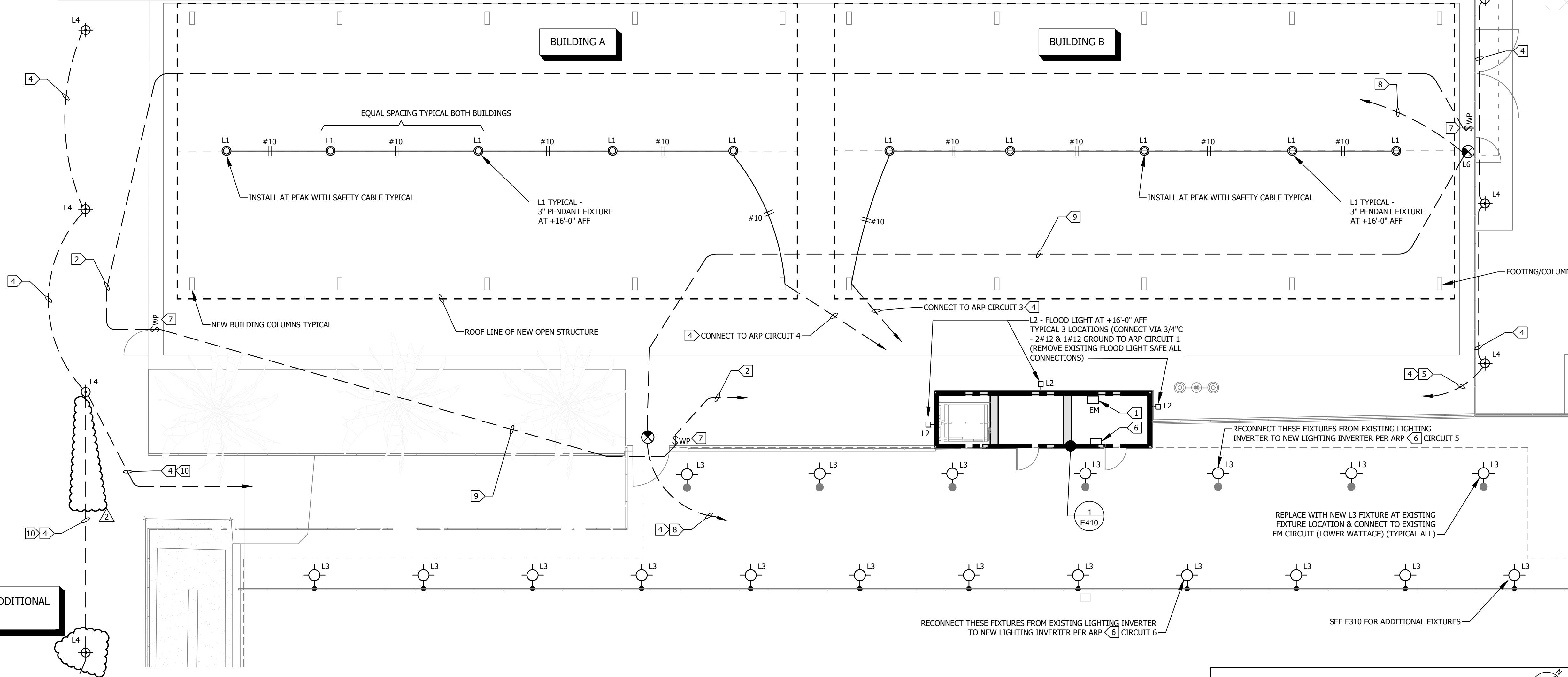
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 PLOT: 6/9/2023 9:08:59 AM
 PLOT BY: Lee Keener



ALL ITEMS ARE NEW UNLESS OTHERWISE NOTED AS EXISTING.

LIGHTING FIXTURE SCHEDULE

TAG	SYMBOL	WATT	DESCRIPTION	LAMP - TYPE AND QUANTITY	MOUNTING	MANUFACTURER AND MODEL NUMBER	REMARKS
L1	○	132	FLOOD (WT= 5LBS)	LED	HOOK SEE E600	LITHONIA LIGHTING CPR8	-
L2	□	26	AREA FLOOD (WT= 10.0LBS)	LED	SURFACE TO WALL MOUNTED	LITHONIA LIGHTING DSXW1	-
L3	⊙	15	AREA FLOOD (WT= 13.5LBS)	LED	SURFACE TO EXISTING COLLUM J-BOX	LITHONIA LIGHTING WDG2 LED P35W 40K 80CRI VW MOLT SRM BRZ	BOLT TO COLUMN ON EXISTING BOX
L4	⊕	38	POLE LIGHT 14'-0" (WT= 38LBS)	LED	POLE SEE E601	LITHONIA LIGHTING RADPT LED-P2-4K-PATH MVOLT P14 RSA 14FT 4C PT WITH 14FT POLE	SEE E601/E300C
L5	□	29	SURFACE ROUND 17"	LED	SURFACE MOUNT TO J-BOX	KENALL MR17FFD-PP-MB-25L40K-277	-
L6	⊗	-	EXIT SIGN	-LED	SURFACE SEE E600	LITHONIA LIGHTING WLTE-W-1-G-	-



- GENERAL NOTES:**
- CONTRACTOR SHALL FIELD VERIFY LOCATION, AND MOUNTING REQUIREMENTS OF ALL LIGHT FIXTURES AND CONTROL PRIOR TO BID PROPOSAL, ROUGH-IN, AND FINISH INSTALLATION.

- KEY NOTES:**
- NEW MYERS 10KW/10KVA INVERTER (SEE E601) TO REPLACE EXISTING 1.5KW UNIT & LOCAL DISCONNECT
 - 1" CAT 5 WET LOCATION HOME RUN TO ARP LIGHTING CONTROLLER.
 - EXISTING PARKING LOT POLE LIGHT TO REMAIN.
 - 1" CAT 5 WET LOCATION @ +24" BELOW FINISHED GRADE & TRACER TAPE ABOVE. CONNECT TO ARP-CIRCUIT 2.
 - LITHONIA APR PANEL (NEW), (E603)
 - LIGHTING CONTROL STATION (WP BOX WITH NP0DM4P). - CONTROLS BUILDING A, BUILDING B & L2 FIXTURES.
 - CONNECT TO ARP CIRCUIT 8.
 - 1" CAT 5 WET LOCATION
 - CONNECT TO ARP CIRCUIT 9

ALL LIGHTING FIXTURES ON THIS DETAIL ARE CONNECTED TO EM POWER, SEE E311

ENLARGED SITE LIGHTING PLAN - NEW WORK
 SCALE: 1/8"=1'-0"
 1 E300

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PROJECT TITLE AND SCHOOL LOCATION

OUTDOOR WORKOUT SPACE
 Campus Student Center
 4667 Telegraph Road
 Ventura, CA 93003

COMMISSIONED ARCHITECT

AMADOR

amador white architects, inc.
 28328 AGOURA RD, 203 | AGOURA HILLS CA, 91301 | 805-558-4334

CONSULTANT
LUCCI & ASSOCIATES INC.
 CONSULTING ELECTRICAL ENGINEERS
 3251 CORTE MALPASO, #511
 CAMARILLO, CA 93012-8094
 (805) 389-6520 FAX (805) 389-6519

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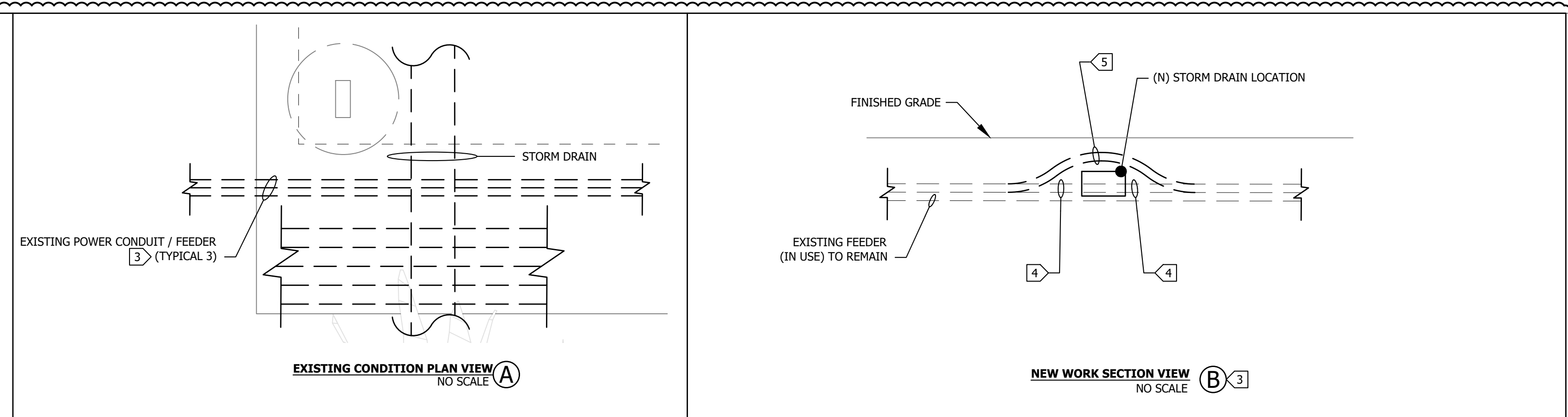
SITE ELECTRICAL REVS (6-2-23)

SHEET TITLE:
ENLARGED SITE LIGHTING & POWER PLAN - NEW WORK

PROJECT NO: 22-VCCCD-10 PROJECT ARCH: Designer
 DRAWN: D.S. / L.K. CHECKED: K.L.
 SHEET NUMBER:
E300

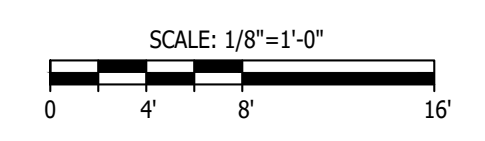
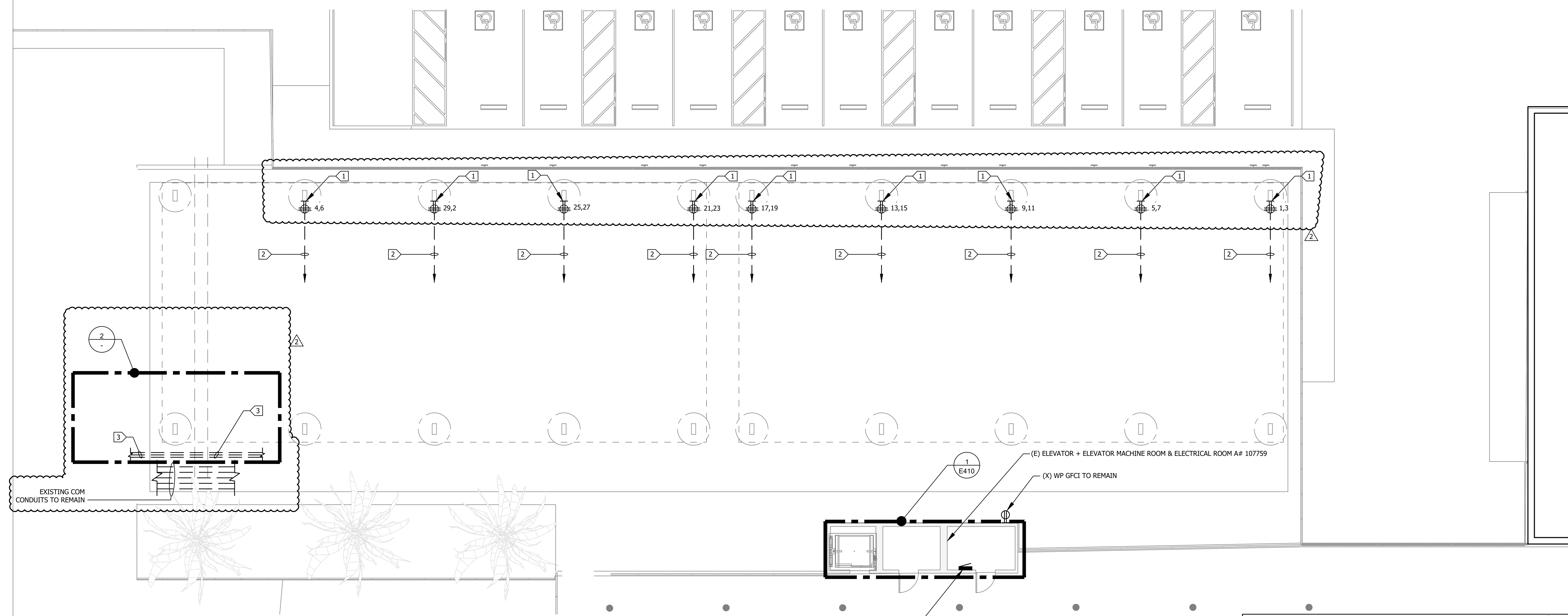
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- KEY NOTES:**
- 1 WET LOCATION DOUBLE DUPLEX GFCI RECEPTACLE, MOUNT ON COLUMN @18" ABOVE PILE CAP.
 - 2 (N) 1" C-4#12 & 1#12 GROUND TO PANEL OT CIRCUITS AS NOTED.
 - 3 EXISTING POWER FEEDERS TYPICAL 3 CONDUITS - TWO (2) ARE EMPTY AND CAN BE REROUTED ABOVE STORM DRAIN WITH 45 DEGREE OFFSETS ON EXISTING CONDUITS WHILE MAINTAINING CONDUIT INTEGRITY. ONE WHICH IS OCCUPIED CAN REMAIN AS IS SINCE IT IS NOT IN CONFLICT WITH STORM DRAIN.
 - 4 REMOVE EXISTING CONFLICT CONDUIT & REPLACE WITH 5.
 - 5 NEW CONDUIT (MATCH EXISTING SIZE).
 - 6 EXISTING POWER FEEDERS TO BE REMOVED

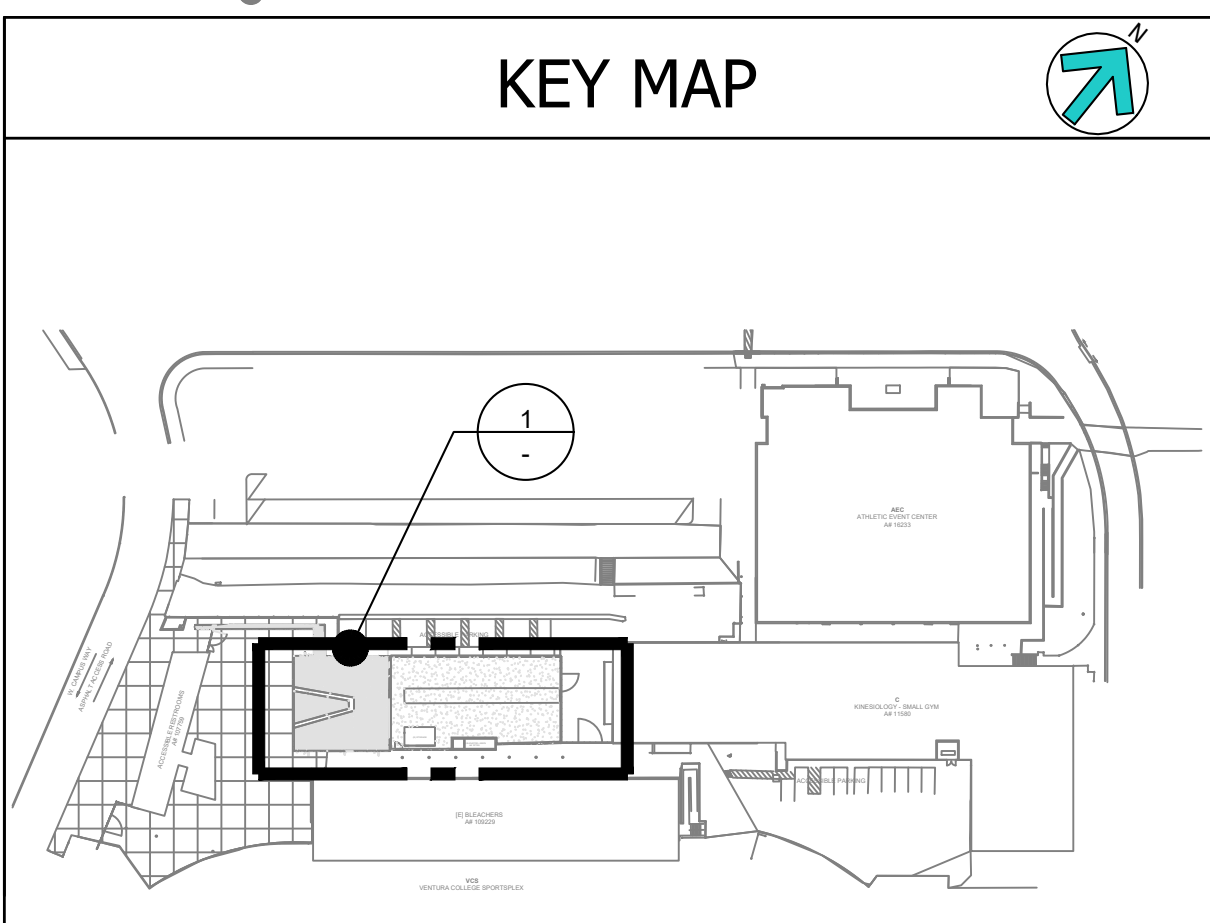
REWORK POWER FEEDER 2 A & B
 SCALE: NO SCALE
 E401



ENLARGED SITE POWER PLAN
 SCALE: 1/8"=1'-0"
 NEW WORK
 E401



- SHEET NOTES:**
1. CONTRACTOR SHALL VERIFY LOCATION & REQUIREMENTS OF ALL DEVICES REQUIRING ELECTRICAL CONNECTION PRIOR TO BID PROPOSAL, ROUGH-IN AND FINISH.
 2. CONTRACTOR SHALL, IN ROUTING ALL CIRCUITS, INCREASE CONDUCTOR & CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWING. ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT SET) DRAWINGS.
 3. COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED WHETHER SHOWN ON ELECTRICAL DRAWINGS OR NOT.
 4. CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURERS RECOMMENDATIONS, PER THE NATIONAL ELECTRICAL CODE AND PER LOCAL AUTHORITIES HAVING JURISDICTION.
 5. 3/4" CONDUIT MINIMUM U.O.N., 1" MINIMUM UNDERGROUND
 6. VERIFY LOCATION OF ALL DEVICES ON ARCHITECTURAL PLANS.
 7. VERIFY THE EXACT ROUTING OF ALL EXPOSED CONDUIT WITH OWNER PRIOR TO INSTALLATION.



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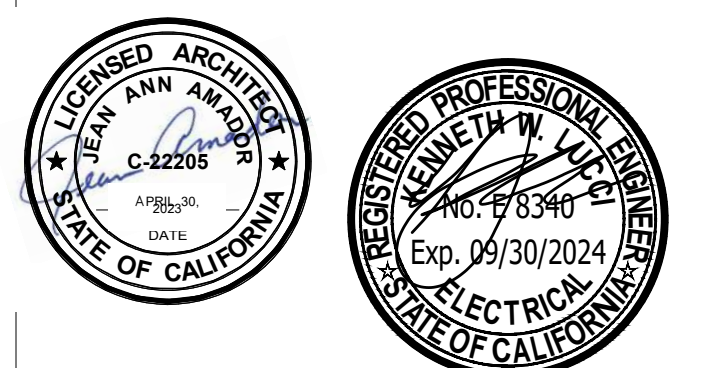
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AMADOR

28328 AGOURA RD, 203 | AGOURA HILLS CA, 91301 | 905-558-4334
 amador.whittle.architects, inc.

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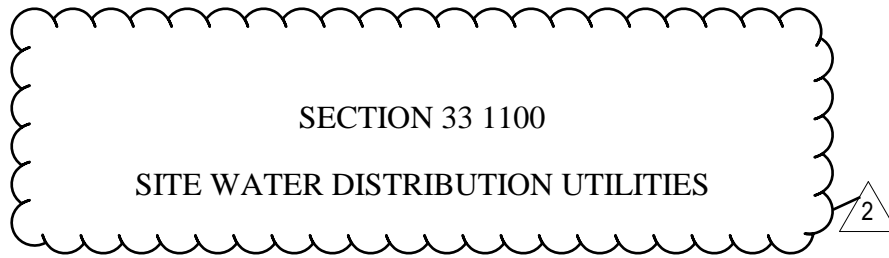
STAMPS/SEALS

△ SITE ELECTRICAL REVS (6-2-23)

SHEET TITLE:
ENLARGED SITE POWER PLAN - NEW WORK

PROJECT NO.: 22-VCCCD-10 PROJECT ARCH: Designer
 DRAWN: D.S. / L.K. CHECKED: K.L.
 SHEET NUMBER:
E401
 DATE: 11/17/2022 SHEET: OF

SECTION 33 1100
SITE WATER DISTRIBUTION UTILITIES



PART 1 - GENERAL

1.01 SUMMARY

A. Section Includes:

1. Site water distribution systems located outside the building perimeter, extending to an existing water line or meter.

B. Related Requirements:

1. Division 01 - General Requirements.
2. Section 01 3593 - Off-site Improvement Procedures.
3. Division 22 – Plumbing.
4. Section 31 2316 - Excavation and Fill for Paving.
5. Section 31 2323 - Excavation and Fill for Utilities.
6. Section 32 0117 - Pavement Repair.
7. Section 32 1313 - Site Concrete Work.
8. Section 33 3000 - Site Sanitary Sewer Utilities.

1.02 SUBMITTALS

- A. Shop Drawings: Submit site plan indicating locations of lines, valves, and related appurtenances.
- B. Product Data: Manufacturer’s catalog data for materials. Include technical data for accessories, gaskets, joints and couplings.
- C. Certificates: Certificates attesting that tests set forth in referenced publications have been performed, and the performance requirements have been satisfied.

1.03 QUALITY ASSURANCE

A. Comply with the following as a minimum requirement:

1. ANSI:
 - a. ANSI B16.18 Cast Copper Alloy Solder Joint Pressure Fittings.
 - b. ANSI B18.5.2.1M Metric Round Head Short Square Neck Bolts.

2. ASME:
 - a. ASME B16.3 Malleable Iron Threaded Fittings.
 - b. ASME B16.4 Grey Iron Threaded Fittings.
 - c. ASME B16.22 Wrought Copper and Copper Alloy Solder Joint Pressure Fittings.
 - d. ASME B16.26 Cast Copper Alloy Fitting for Flared Copper Tubes.
 - e. ASME B18.2.2 Nuts for General Applications (Inches Series).
 - f. ASME B18.5.2M Metric Round Head Square Neck Bolts.
3. ASTM:
 - a. ASTM A47 Standard Specification for Ferritic Malleable Iron Castings.
 - b. ASTM A48 Standard Specification for Gray Iron Castings.
 - c. ASTM A53 Standard Specification for Pipe, Steel, Black and Hot-Dipped, Zinc-Coated Welded and Seamless.
 - d. ASTM A307 Standard Specification for Carbon Steel bolts and Studs, 60,000 psi Tensile Strength.
 - e. ASTM A536 Standard Specification for Ductile Iron Castings.
 - f. ASTM A563 Standard Specification for Carbon and Alloy Steel Nuts.
 - g. ASTM B61 Standard Specification for Steam or Valve Bronze Castings.
 - h. ASTM B62 Standard Specification for Composition Bronze or Ounce Metal Castings.
 - i. ASTM B88 Standard Specification for Seamless Copper Water Tube.
 - j. ASTM C94 Standard Specification for Ready-Mixed Concrete.
 - k. ASTM D1527 Standard Specification for Acrylonitrile-Butadiene-Styrene (ABS) Plastic Pipe, Schedules 40 and 80.
 - l. ASTM D1785 Standard Specification for Poly Vinyl Chloride (PVC) Plastic Pipe, Schedules 40, 80 and 120.
 - m. ASTM D2235 Standard Specification for Solvent Cement for ABS Plastic Pipe, and Fittings.
 - n. ASTM D2241 Standard Specification for PVC Plastic Pipe Fittings, Schedule 40.

- o. ASTM D2282 Standard Specification for ABS Plastic Pipe.
 - p. ASTM D2466 Standard Specification for PVC Plastic Pipe Fittings, Schedule 80.
 - q. ASTM D2468 Standard Specification for ABS Plastic Pipe Fittings, Schedule 40.
 - r. ASTM D2564 Standard Specification for PVC Plastic Piping Systems.
 - s. ASTM D2774 Standard Practice for Underground Installation of Thermoplastic Pressure Piping.
 - t. ASTM D2855 Standard Test Method for Making Solvent-Cemented Joints with PVC Pipe and Fittings.
 - u. ASTM D3139 Standard Specification for Joints Pressure Pipes Using Flexible Elastomeric Seals.
 - v. ASTM F402 Standard Practice for Safe Handling Of Solvent Cements, Primer and Cleaners Used for Joining Thermoplastic Pipes and Fittings.
 - w. ASTM F477 Standard Specification for Elastomeric Seals for Joining Plastic Pipes.
4. American Water Works Association (AWWA) Standards:
- a. AWWA C104/A21.4 Cement-Mortar Lining For Ductile-Iron Pipe and Fittings For Water.
 - b. AWWA C110/A21.10 Ductile-Iron and Gray-Iron Fittings, 3 inches through 48 inches, for Water and Other Liquids.
 - c. AWWA C111/A21.11 Rubber-Gasket Joints for Ductile-Iron pressure Pipe and Fittings.
 - d. AWWA C153/A21.53 Ductile-Iron Compact Fittings, 3 inches through 16 inches, for Water and Other Liquids.
 - e. AWWA C500 Metal Seated Gate Valves for Water and Sewage Systems.
 - f. AWWA C503 Wet- Barrel Fire Hydrants.
 - g. AWWA C508 Swing-Check Valves for Waterworks Service, 2 inches through 24 inches NPS.
 - h. AWWA C509 Resilient Seated Gate Valves for Water and Sewerage Systems.
 - i. AWWA C511 Reduced-Pressure Principal Backflow-Prevention Assembly.

- j. AWWA C600 Installation of Ductile-Iron Water Mains and Their Appurtenances.
 - k. AWWA C651 Disinfecting Water Mains.
 - l. AWWA C800 Underground Service Line valves and Fittings.
 - m. AWWA C900 PVC Pressure Pipe, 4 inches through 12 inches, for Water Distribution.
 - n. AWWA M23 PVC Pipe - Design and Installation.
5. Manufacturers Standardization Society (MSS) of the Valve and Fittings Industry:
- a. MSS SP-80 Bronze Gate, Globe, Angle and Check Valves.
6. Uni-Bell PVC Pipe Association (UBPPA):
- a. UBPPA UNI-B-3 Installation of PVC Pressure Pipe.
 - b. UBPPA UNI-B-8 Direct Tapping of PVC Pressure Water Pipe.
 - c. UBPPA UNI-B-13 Standard Performance Specification on joined restrained devices for use with Poly Vinyl Chloride (PVC) Pipe.
7. Underwriters Laboratories Inc. (UL):
- a. UL 246 Hydrants for Fire-Protection Service.
 - b. UL 262 Gate Valves for Fire-Protection Service.
 - c. UL 312 Check Valves for Fire-Protection Service.
 - d. UL 789 Indicator Posts for Fire-Protection Service.
8. National Pollutant Discharge Eliminations System (NPDES):
- a. Comply with storm water requirements of general permit for storm water discharges when flushing pipe systems including storm drains and maintaining logs.
- B. Provide valves from the same manufacturer.
- C. Manufacturer of plumbing products must be third-party certified to ANSI/NSF Standard 61, Section 9 certification, and ANSI/NSF 372 to demonstrate compliance with the federal requirements for lead contribution to drinking water, the Safe Drinking Water Act SDWA, and the California Health and Safety Code Section 116875. No pipe, pipe fitting, or any other fitting or fixture intended to convey or dispose water for human consumption for drinking or cooking is allowed in the domestic plumbing system, if they do not meet the low lead definition of Health and Safety Code 116875.

Weighted average lead content of the wetted surface area of pipes, fittings and fixtures may not exceed 0.25 percent.

- D. Qualifications of Manufacturer: Products used in the Work of this Section shall be produced by manufacturers regularly engaged in manufacture of similar items and with a history of successful production as reviewed by the ARCHITECT.

1.04 PRODUCT HANDLING

- A. Store items above ground on platforms, skids, or other required supports.
- B. Protect materials from direct sunlight.
- C. Protect coating and linings on piping, fittings, and accessories from damage. Repair and/or replace damaged coatings or linings.

PART 2 - PRODUCTS

2.01 MATERIALS

- A. Pipes, Fittings, and Joints:

P-1: Pipe sizes up to 4-inch shall be Copper water tubing, Type K hard, ANSI H23.1, ASTM B88, IAPMO IS.

Manufacturer: Mueller, Cerro Brass, Cambridge-Lee, Halstead, or equal.

An approved protective wrap shall be used to completely isolate and protect underground copper tubing and extend past the surface a minimum 12-inch. The excess wrapping shall be trimmed down and taped to copper tubing with 10 mill PVC pipe tape at grade level of concrete or asphalt.

PF-1a: Copper Press-Connect pressure fittings, comply with ASME B16.51 "Copper Alloy Press-Connect Pressure Fittings", with Ethylene Propylene Diene Monomer, EPDM O-Ring Seal in each end. Fittings with the sizes of 2-1/2" and larger shall have cross-section Grab Rings and separation rings.

Manufacturer: Viega, Mueller Industries, Apollo, or equal.

PF-1b: Wrought Copper - solder type ANSI B 16.22.

Manufacturer: Mueller Brass, Nibco, Lee Brass, or equal.

PF-1c: Grooved end type– ASTM B75 or B152 and ANSI B16.22 Wrought Copper, bronze sand casting per ASTM B584-87 copper alloy CDA 836 per ANSIB16.18. Couplings shall be CTS style 606 supplied with angle pattern bolt pads for rigidity, coated with copper coated alkyd enamel. Gaskets shall be pre-lubricated Flush seal type.

Manufacturer: Victaulic, or equal.

P-2: Underground pipe sizes 4-inch and larger shall be C900 water main pipe material complying with AWWA C900, and ASTM D1784 Cell Class 12454B

with tracer wire, NSF and UL listed. Piping shall be plain end or gasket bell end, pressure class 200 (DR14) with cast iron pipe equivalent outside diameter.

PF-2a: Fire Water Main Fittings shall be cast-iron conforming to AWWA C110/A21.10 or AWWA C153/A21.53 and shall have cement mortar lining conforming to AWWA C104/A21.4, standard thickness unless otherwise indicated on Drawings. Fittings shall be mechanical joints.

PF-2b: Domestic Water and Irrigation Main Fittings, Joints and Jointing Materials shall be C900 Compatible.

- a. Pipe joints shall be push on as specified in ASTM D3139.
- b. Joints between pipe and metal fittings, valves, and other accessories shall be mechanical joints as specified in AWWA C111/A21.11.
- c. Provide each joint connection with an elastomeric gasket suitable for the bell or coupling installation.
- d. Gaskets for push on joints for pipe shall conform to ASTM F477.
- e. Gaskets for push on joints and compression type joints or mechanical joints for connections between pipes and metal fittings, valves, and other accessories shall be as specified in AWWA C111/A21.11.
- f. Sleeve-type mechanically coupled joints may be provided instead of push-on joints on plain-end PVC plastic joints. Comply with requirements of ASTM D3139.

D. Gates Valves for PVC:

1. Non-rising stem type with resilient wedge gates or iron body bronze wedge gates and mechanical joint ends conform to AWWA C500.
2. Non-rising stem type with mechanical joints ends shall conform to AWWA C509.
3. Valves designed for a working pressure of 175 PSI shall be inside-screw type with operating nut, and resilient wedge type gate. Valve shall be provided with mechanical joints as required for the pipe to which it is intended to connect.
4. Valves with UL listing of 262 shall conform to AWWA C500. Valves shall open by counter-clockwise rotation of valve stem.
5. Stuffing boxes shall be provided with O-ring stem seals and shall be bolted and constructed to permit easy removal of parts for repair.
6. Sleeve type mechanical couplings may be provided instead of mechanical and push on joint ends.

7. Valve ends and gaskets for connection to sleeve type mechanical couplings shall conform to specified requirements for the joint or coupling.
- E. Gate Valves in Valve Pits:
1. Outside screw and yoke rising stem type valves with resilient wedge gates and flanged ends shall conform to AWWA C500.
 2. Outside screw and yoke rising stem type valves with flanged ends shall conform to AWWA C509.
 3. Outside screw and yoke type Valves with double disc gates or split-wedge type gate and flanged ended ends shall be designed for 175 psi and conform to UL 262.
 4. Provide valves with hand wheels that open by counterclockwise rotation of the valve stem.
 5. Stuffing boxes shall be provided with O-ring stem seals and shall be bolted and constructed to permit easy removal of parts for repair.
- F. Check Valves for PVC:
1. Valves shall be swing-check type conforming to AWWA C508 or UL 312.
 2. Valves shall be provided with cast iron or steel body and cover, flanged ends and clear port opening.
 3. Valves shall be designed for a working pressure of 175 PSI.
- G. Valve Boxes: 14 ¾-inch by 20-inch by 12-inch cast concrete with cast iron, traffic grade cover marked "WATER" (for use over water valves).
1. Brooks 36-H MB with No. 36-T cast iron cover EISEL 363.5, or equal.
- H. Mechanical Thrust Restraint:
1. Restraint shall be incorporated into the follower gland.
 2. Restraint shall consist of individually actuated wedges that increase resistance to pull out as internal pressure or external forces increase.
 3. Gland shall be ductile iron conforming to ASTM A536.
 4. Provide twist off nuts and tee-head bolts of the same size to ensure proper actuating of restraint devices.
 5. Restraining device shall be provided with pressure rating equal to that of the pipe on which it is installed.
 6. Restraining gland shall be UL listed.

7. Mechanical thrust restraint devices shall be EBAA Iron “Megalug” or equal.
- I. Restraint Device Adapters:
1. Restrained flange adapters shall be provided instead of threaded or welded flange spool pieces on plain end of ductile iron or PVC pipe.
 2. Flange adapters shall be manufactured of ductile iron conforming to ASTM A536 and be provided with flange bolt circles compatible with ANSI/AWWA C115/A21.15.
 3. Restraint of flange adapter shall consist of a multiple number of individually actuated gripping wedges to maximize restraint capability.
 4. Torque limiting actuating screws shall be provided to insure proper initial set of gripping wedges.
 5. Flange adapter shall be capable of deflection during assembly or permit lengths of pipe to be field cut to allow at least 0.6 inch of gap between end of pipe and mating flange without affecting integrity of seal.
 6. Flange adapter shall be provided with a safety factor of at least 2:1 for rated pressure.
 7. Restraint device adapters shall be EBAA Iron “Megaflange”, or equal.
- J. Tracer Wire for Nonmetallic Pipes: Tracer wires shall be electrically continuous #14 copper tracer wire, Type TW, blue plastic covered for domestic water and red for fire sprinkler. (Aluminum wire is prohibited). Provide in sufficient length to be continuous over each installed section of nonmetallic pipe.
- K. Pipe markers shall be a concrete plaque inscribed with the word “WATER.”
- L. Water Service Line Materials:
1. Copper Tubing: Copper tubing shall conform to ASTM B88, Type K.
 2. Fittings for Copper Tubing: Fittings for solder-type joints shall conform to ANSI B16.18 or ASME/ANSI B16.22. Fittings for compression-type joints shall conform to ASME/ANSI B16.26, flared tube type.
 3. Water Service Line Appurtenances:
 - a. Corporation stops shall be ground key type; manufactured of bronze conforming to ASTM B61 or ASTM B62; and suitable for the working pressure of the system. Ends shall be suitable for solder-joint or flared tube compression type joint connection. Threaded ends for inlet and outlet of corporation stops shall conform to AWWA C800; coupling nut for connection to flared copper tubing and shall conform to ASME/ANSI B16.26.

- b. Goosenecks shall be type K copper tubing. Joint ends for goosenecks shall be as required for connecting to corporation stop and service line. Where multiple gooseneck connections are required for individual service, connect goosenecks to service line through brass or bronze branch connection; the total clear area of branches shall be at least equal to clear area of service line. Length of goosenecks shall be as indicated or required.
 - c. Curb or service stops shall be ground key, round way, inverted key type; bronze, conforming to ASTM B61 or ASTM B62; and rated at 150 psi. Ends shall be as required for connection to service piping. Arrow shall be cast into body of curb or service stop indicating direction of flow.
 - d. Gate valves 2.5-inch and larger shall be MSS SP-80, Class 150, solid wedge, or resilient wedge gate, and non-rising stem. Valves shall be provided with flanged end connections. Provide hand wheel operators if easily accessible. Provide operating nut if inside a vault, pit or valve box.
 - e. Gate valves in valve pits 2-inch, and smaller shall be MSS SP-80, Class 150, bronze, solid wedge, inside screw, rising stem. Valves shall be provided with flanged end connections or threaded end connections with union on one side of valve and hand wheel operator.
 - f. Valve boxes shall be provided at each gate valve installed underground. Valve boxes shall be a size suitable for valve on which it is installed.
- N. Water meter will be installed by water purveyor for the area, unless noted otherwise.

O. Strainers:

STR-1 Description: Wye type with Monel or Stainless Steel strainer cylinder (manufacturer's standard mesh), and gasketed machine strainer cap. Where indicated on Drawings, provide with valved (globe valve) blow out piping, same size as blow out plug:

2-inch and smaller: C.M. Bailey #100-A, bronze, 250 pound, or ductile iron with fusion bonded epoxy coating.

2 ½-inch and larger: Watts 77F-DI-FDA-125 pound, or other ductile iron fusion bonded epoxy coated flanged strainer, conforming to ASTM A312 for the strainer body, and ASTM A240 for the stainless steel strainer element. (No iron body strainer shall be used on potable water that is not fusion bonded epoxy coated inside and out.)

C.M.Bailey, Armstrong, Wilkins, Watts, or equal.

STR-2 "Y" pattern, cast iron bodies, 125 psi, Monel screen 16 square. mesh. Open area at least twice the cross-sectional area of IPS pipe in which strainer is installed and may be woven wire or perforated type. Screwed

ends for sizes up to 2-inch, flanged ends for 2 ½-inch and larger perforations, in accordance with the following:

Bailey #100, Armstrong, Rp & C , Keckley, or equal.

STR-3 Bucket type, flange, semi-steel body, 125 psi, stainless steel screen with 1/8 inch diameter perforations (mounted above grade for water service). All sizes, for mains serving fire sprinkler risers:

Bailey #1, Zurn 150 Series, Rp 7 C, Watts 97fb-Fsfe, or equal.

STR-42” and larger: Watts 077-F-SS Stainless steel flange type strainer, or equal conforming to ASTM A312 for strainer body, ASTM A240 for the SS strainer element and ASTM A36 for base flange material.

P. Backflow Preventer Assemblies:

1. Assembly shall be provided with flanged connections, ductile iron with fusion bonded epoxy coated construction, bronze, or stainless steel.
2. Backflow preventer shall be suitable for cold water working pressure of 175 psi.
3. Internal parts shall be designed for replacement without removing valves from line.
4. Double check backflow preventer assembly shall consist of two independently acting spring cam or poppet style check valves, 2 shut-off valves and 4 test cocks. Check valve shall be designed to provide drip tight closure against reverse flow, low pressure drop at maximum flow capacity. Spring-loaded checks shall cause valve to seal against a higher inlet pressure than outlet pressure when there is no flow.
5. Double check backflow preventer assembly shall meet AWWA Standard C510-89. Assembly shall be Ames 2000ss, Febco 850, Watts 709, Wilkins 350, or equal.
6. Reduced pressure backflow preventer assembly shall consist of two check valves located between two shut-off valves with an area of reduced pressure between two check valves and a relief device arranged to discharge to atmosphere.
 - a. Comply with AWWA Standard C511.
 - b. Fluctuation in piping pressure shall not cause cycling. Backflow preventer shall automatically maintain low pressure zone to positively prevent backflow of water into system. Assembly shall automatically indicated failure of any part vital to backflow prevention by the continuous discharge relief device.
 - c. Reduced pressure backflow preventer assembly shall be Cla-Val Model RP-4, or equal.

7. Backflow prevention assemblies (devices), shall be tested and certified by a certified backflow tester, and a test report shall be provided to the water agency having jurisdiction. Testing shall be performed in the presence of the Project Inspector.

PART 3 - EXECUTION

3.01 EXCAVATION, BACKFILLING AND COMPACTING

- A. Conform to requirements in Section 31 2323 - Excavation and Fill for Utilities or Section 31 2313 - Excavation and Fill.

3.02 PIPE INSTALLATION

- A. Project site water lines shall terminate approximately 5 feet from buildings, unless otherwise indicated on Drawings. Temporarily cap or plug terminals for future connection to building.

3.03 CLEARANCES OF WATER LINE

- A. Building or Structures: Two feet.
- B. Parallel to Sewer Line:
 1. Water line 4-inch or less in diameter shall not be installed in a common trench with the building sanitary drain unless the bottom of the water line is at least 12 inches above the top of the building sanitary drain or where the water line is installed on a solid shelf excavated on one side of the common trench with a minimum clear horizontal distance of 12 inches from the building sanitary drain.
 2. Water mains 6-inch and larger in diameter shall be separated from the Project site sanitary sewer, receiving more than one building sanitary drain or acid pipeline, in accordance with the requirement of the State of California, Human and Welfare Agency, Department of Health Services.
- C. Crossing Sewer Line:
 1. A water main shall be separated from sanitary sewer in accordance with the requirements of the State of California Administrative Code, Title 22, Section 64630(e)(2).
 2. Install water main a minimum of 12 inches clear, above or below a sanitary sewer.
 3. A water main 6-inch or greater in diameter, crossing under a Project site sanitary sewer line, shall be installed with joints located at least 10 feet away from each side of the sanitary sewer line.

4. A water main 6-inch or greater in diameter, crossing over a Project site sanitary sewer line, shall be installed with joints located at least 4 feet away from each side of a purple pipe or sanitary sewer line.

- D. Install water mains no closer than 10 feet horizontally clear from the edge of sewage leach fields, seepage pits, and septic tanks.

3.04 PIPE INSTALLATION AND JOINING

- A. Remove fins and burrs from pipe and fittings.
- B. Clean piping, fitting, valves, and accessories before installing. Maintain items in a clean condition.
- C. Provide proper facilities for lowering sections of pipe into trenches. Do not drop into piping, fittings, or other materials into trenches. Accurately cut pipe and install without springing or forcing. Replace any piping or fitting that does not provide sufficient space for proper installation of joining material.
- D. Blocking or wedging between bells and spigots is not permitted. Install bell and spigot pipe with bell end pointing in the direction of flow.
- E. Install piping to the lines and grades indicated or required. Low points and dips are not permitted. Support piping at proper elevation and grade with secure and uniform supports. Wood support blocking is not permitted. Where sand cement slurry will not be furnished for backfill, install piping so that full length of each section of pipe and each fitting will solidly rest on pipe bedding. Excavate recesses to accommodate bells, joints, and couplings. Provide anchors and supports where indicated or required for installation. Provide proper allowances and devices for expansion and contraction of piping and systems.
- F. Maintain trenches free of standing water until pipe joints have been installed.
- G. At the end of each day close open ends of pipe with temporary caps of the same material as the pipe.
- H. Do not install piping when trench or weather conditions prevent proper installation.

3.05 INSTALLATION OF TRACER WIRE AND PIPE MARKERS

- A. Tracer Wire: Install continuous length of tracer wire for full length of each run of nonmetallic pipe. Fasten wire to top of pipe in such a manner that it will not be displaced during construction operations. Wire shall be fastened to pipe at not greater than 20-foot intervals. Wire shall terminate above finished grade with a 12-inch lead taped around each riser. Provide a tracer wire to grade under a permanent marker where straight-line transitions of metallic to non-metallic pipe are installed.
- B. Underground Pipe Markers: Provide markers at grade where non-metallic pipe is installed and for each horizontal change in direction.

3.06 CONNECTIONS TO EXISTING WATER LINES

- A. After Project Inspector has inspected installation, perform connections to servicing water lines. Schedule service shutdown for connecting new system at a time causing minimum disruption.
- B. Use a tap or drilling machine with valve and mechanical joint type sleeves for connections to waterlines under pressure, only if other means of scheduling a shutdown time have been unsuccessful, and with the approval of the responsible engineer, and Project Inspector.
- C. Bolt sleeves around mains; bolt valve conforming to AWWA C500 to branch. Open valve, attach drilling machine, perform tap, close valve, and remove drilling machine, without interruption of service. Notify the Project Inspector in writing at least five days prior to the date of scheduled connections.

3.07 INSTALLATION OF PVC PLASTIC WATER MAINS

- A. Unless otherwise indicated, install pipe and fittings as specified and in accordance with UBPPA UNI-B-3 and AWWA M23, Chapter 7, "Installation".
- B. Jointing:
 - 1. Provide push on joints with elastomeric gaskets specified for this type of joint, furnishing either elastomeric-gasket bell-end pipe or elastomeric-gasket couplings. For pipe-to-pipe push on joint connections, provide pipe with push on joint ends furnished with factory installed bevel; for push on joint connections to metal fittings, valves and other accessories, square cut spigot end off pipe end.
 - 2. Provide push on joint lubricant recommended by manufacturer.
 - 3. Install push on joints for pipe-to-pipe connections in accordance with UBPPA UNI-B-3 and AWWA M23, Chapter 7, "Installation."
 - 4. Install push on joints for connection to fittings, valves, and other accessories in accordance with requirements of UBPPA Uni-B-3 and with applicable requirements of AWWA C600.
 - 5. Compression-type joints/mechanical-joints with gaskets, glands, bolts, nuts and internal stiffeners shall be installed in accordance with the requirements of UBPPA UNI-B-3 and AWWA C600 and Appendix A to AWWA C 111/A21.11.
 - a. Square cut spigot off end of pipe for compression-type joint/mechanical-joint connections and do not re-bevel.
 - 6. Sleeve-type mechanical couplings shall be provided in strict accordance with coupling manufacturer's recommendations using internal stiffeners as specified for compression-type joints.
- C. Provide mechanical thrust restraint devices for anchorage and piping unless thrust blocks are indicated on the Drawings. Thrust blocks shall be installed in accordance with the requirements of UBPPA UNI-B-3 except that size and location of blocks shall

be as indicated. Thrust blocks shall be provided as specified in Section 32 1313 - Site Concrete Work.

3.08 INSTALLATION OF VALVES

- A. Provide gate valves conforming to AWWA C500 and UL 262 in accordance with AWWA C600 for valve and fitting installation and with recommendations of AWWA C500 Appendix "Installation, Operation, and Maintenance of Gate Valves".
- B. Provide gate valves conforming to AWWA C600 in accordance with AWWA C509 for valve and fitting installation and with recommendations of AWWA C500 Appendix "Installation, Operation, and Maintenance of Gate Valves".
- C. Provide gate valves on PVC water mains in accordance with AWWA M23 Chapter 7, "Installation."
- D. Provide check valves and fittings in accordance with applicable requirements of AWWA C600 unless noted otherwise on the Drawings.
- E. Provide gate and check valve joints as specified for the type of joints between pipe and fittings.

3.10 INSTALLATION OF BACKFLOW PREVENTERS

- A. Install reduced pressure backflow preventers to comply with RULE 16D of LADWP in the jurisdictional boundaries of Los Angeles Department of Water and Power.

3.11 WATER SERVICE LINE CONNECTION TO WATER MAINS

- A. Connect service line to main by corporation stop and gooseneck. Install service stop as indicated on the Drawings. Connect service lines to PVC plastic water mains in accordance with UBPPA UNI-B8 and AWWA M23, Chapter 9, "Service Connections".
- B. Special Requirements for Plastic Piping: Unless otherwise indicated, install pipe and fittings in accordance with ASTM D2774 and ASTM D2855. Handle solvent cements for plastic pipe jointing in accordance with ASTM F402. Install joints according to ASTM D2855. Install other joints to materials other than pipe materials in accordance with plastic pipe manufacturer's recommendations.
- C. Connect plastic pipe service lines to corporation stops and gate valves according to plastic pipe manufacture's recommendations.

3.12 INSTALLATION OF STRAINERS:

- A. Strainers shall be installed on each water main downstream of the meter, above grade at the pressure regulating station. When a pressure regulating station (assembly) is not provided, "wye" type flange strainer shall be provided, with a shut off valve on the inlet and the outlet side.
- B. If the water main is serving fire sprinkler risers or hydrants, then an approved fire service strainer shall be used: Watts 97DB-FSFE, or equal.

3.13 DISINFECTION OF DOMESTIC WATER PIPING SYSTEM

- A. When water piping has been installed and tested, sterilize system before use and/or Substantial Completion.
- B. Inject solution of liquid chlorine or sodium hypochlorite and water containing at least 50 PPM of free chlorine into a system in a manner to ensure that entire system is completely filled with solution. During this procedure operate valves and test outlets for residual chlorine. Continue injection until outlets indicate at least 59 PPM of free chlorine.
- C. After injection, isolate system and hold solution in retention for a period of at least 8 hours. Perform tests for residual chlorine after retention. If such tests indicate less than 50 PPM of residual chlorine, repeat entire procedure. After satisfactory sterilization has been verified, flush entire system until traces of chlorine have been removed or until chlorine content is no greater than in existing water supply.

3.14 ELECTROLYSIS PREVENTION

- A. A minimum 6-inch long brass nipple shall be installed at locations specified or as required. Flanges shall be provided with a complete insulating component consisting of; gasket bolt sleeves and bolt washers. Dielectric insulators shall be installed at locations indicated or as required. Dielectric fittings are prohibited.
- B. Where steel or cast iron below grade connects to copper or brass piping above grade, the transition from steel or cast iron pipe to copper or brass pipe shall be installed in an above grade accessible location.
- C. Underground connections between dissimilar metals shall be in accessible yard boxes.
- D. Above ground dielectric connections shall be exposed.

3.15 ABANDONING WATER LINES AND STRUCTURES

- A. Water lines and appurtenances to be abandoned in place shall be cut and removed from areas where new Work is being installed.
- B. Cap or plug abandoned existing drain lines below grade in a yard box and according to CBC.

3.16 TESTS AND INSPECTIONS

- A. Provide labor, equipment, materials, test equipment and incidentals required for performing required field tests.
- B. Tests shall not be performed for five days after concrete thrust blocks have been installed.
- C. Testing Procedure: Water mains and service lines shall be tested in accordance with applicable specified standard.

1. Test PVC plastic water system in accordance with UBPPA UNI-B-3 for pressure and leakage. The amount of leakage from PVC piping shall not exceed the amounts given in UBPPA UNI-B-3, except that no leakage is permitted for joints installed with sleeve type mechanical couplings.
2. Test water service lines in accordance with applicable requirements of AWWA C600. No leakage is permitted.
3. Pressure testing: Before pressure test, fill portion of piping being tested with water for a minimum of 24 hours. Provide hydrostatic pressure of at least 50 psi greater than the maximum working pressure of tested system, but no less than 200 psi hydrostatic test pressure for system piping of 2-inch in diameter and larger. Provide and maintain hydrostatic test pressure for at least two hours to ensure no leakage of any portion of piping or appurtenances under pressure test.

3.17 CLEANING

- A. Remove rubbish, debris, and waste materials and legally dispose of off the Project site.

3.18 PROTECTION

- A. Protect the Work of this section until Substantial Completion.

END OF SECTION