

1215 WELCH ROAD RESEARCH BUILDING

1215 WELCH RD

STANFORD UNIVERSITY - SCHOOL OF MEDICINE



DENVER
LOS ANGELES
NEW YORK
PORTLAND
SEATTLE
WASHINGTON, DC
VANCOUVER, BC

1223 SW Washington Street
Suite 200
Portland, OR 97205
503.224.3860
www.zgf.com

Client Logo

Client Project Number **5548**

ZGF Project Number **P26717**

Package Description

ARCHITECTURAL AND SITE APPROVAL (ASA)

Date

DECEMBER 6, 2024

ZGF Project Number P26717.wrs
Consultant

BUILDING CODE SUMMARY

OCCUPANCY TYPE:

BUSINESS GROUP B: OFFICE, RESEARCH LABS, SERVICE ROOMS (ELECTRICAL, MECHANICAL), CONFERENCE, BREAK ROOMS, AND TERRACES WITH OCCUPANT LOADS OF LESS THAN 50 (CBC 303.1.1)

ASSEMBLY GROUP A-3: CLASSROOM (ACCESSORY OCCUPANCY)
ASSEMBLY GROUP A-2: CAFE (SEPARATED OCCUPANCY)
HAZARD GROUP H-3: CHEMICAL STORAGE ROOMS (SEPARATED OCCUPANCY)

UTILITY GROUP U: TUNNELED WALKWAY

CBC 303.1.2: A ROOM OR SPACE USED FOR ASSEMBLY PURPOSES WITH AN OCCUPANT LOAD OF LESS THAN 50 PERSONS AND ACCESSORY TO ANOTHER OCCUPANCY SHALL BE CLASSIFIED AS GROUP B OCCUPANCY

TYPE OF CONSTRUCTION : II-B

STRUCTURE RATING: REFLECTS LAB CONTROL AREA REQUIREMENTS

PRIMARY STRUCTURE FRAME: 2 HR
FLOOR CONSTRUCTION: 2 HR

BUILDING HEIGHT: 66'-0"
ALLOWABLE HEIGHT: 75' ABOVE GRADE PLANE

ALLOWABLE NUMBER OF STORIES ABOVE GRADE PLANE: 4
ACTUAL NUMBER OF STORIES: 4

BUILDING AREAS:

BASEMENT: 53,949 GSF
LEVEL 1: 35,645 GSF
LEVEL 2: 42,294 GSF
LEVEL 3: 42,071 GSF
LEVEL 4: 26,613 GSF
TOTAL: 200,572 GSF

ALLOWABLE BUILDING AREA PER STORY: 69,000 SF

APPLICABLE CODES, REGULATIONS & ORDINANCES

- 2022 CALIFORNIA BUILDING CODE - TITLE 24 (CBC)
- 2022 CALIFORNIA ELECTRICAL CODE
- 2022 CALIFORNIA MECHANICAL CODE
- 2022 CALIFORNIA PLUMBING CODE
- 2022 CALIFORNIA ENERGY CODE
- 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE
- CALIFORNIA ELEVATOR SAFETY CODE
- CALIFORNIA CODE OF REGULATIONS, TITLE 8
- 2022 CALIFORNIA FIRE CODE
- CALIFORNIA DIVISION OF OCCUPATIONAL SAFETY AND HEALTH (CAL/OSHA)
- U.S. ENVIRONMENTAL PROTECTION AGENCY REGULATIONS (EPA)
- SANTA CLARA COUNTY AMENDMENTS TO FIRE AND BUILDING CODES NS1100.125
- 2022 NFPA 13 WITH CALIFORNIA AMENDMENTS
- 2019 NFPA 14 WITH CALIFORNIA AMENDMENTS
- 2022 NFPA 72
- STANFORD UNIVERSITY GENERAL USE PERMIT - APPROVED 12/12/00

FIRE PROTECTION INFORMATION

FIRE SPRINKLER: YES. IN ACCORDANCE WITH 2022 NFPA 13 & SANTA CLARA COUNTY FIRE MARSHAL

LOCAL RESPONSE AREA: CITY OF PALO ALTO

GUP SQUARE FOOTAGE ANALYSIS

* SEE SHEET ASA-G0.03 & ASA-G0.04

ADJACENT BUILDING HEIGHTS

42' - LUCAS CENTER
72' - BMI
62' - CCSR
48' - LOKEY
80' - BECKMAN CENTER
72' - LKSC
0' - LOADING DOCK IS BELOW GRADE

PROJECT DESCRIPTION

STANFORD SEEKS ARCHITECTURAL AND SITE APPROVAL FOR THE DEVELOPMENT OF A NEW BIOMEDICAL RESEARCH LABORATORY BUILDING AT 1215 WELCH ROAD. THIS PROJECT CREATES NEW FACILITIES TO ALLOW EXISTING OCCUPANTS AND PROGRAMS TO RELOCATE FROM AGING FACILITIES ASSOCIATED WITH THE STANFORD SCHOOL OF MEDICINE. THE PROJECT ALSO PROPOSES DEMOLITION OF THE EXISTING HAGEY BUILDING AFTER STAFF, SUPPORT MATERIALS, AND EQUIPMENT HAVE BEEN RELOCATED TO THE NEW BUILDING.

THE NEW 3.5 STORY BIOMEDICAL RESEARCH BUILDING CONSTRUCTED OVER ONE LEVEL BELOW GRADE WILL UTILIZE APPROXIMATELY 184,000 SF GUP SQUARE FOOTAGE. LOCATED SOUTH OF THE EXISTING LUCAS CENTER, THE BUILDING SITE IS BOUNDED BY WELCH ROAD TO THE WEST, GOVERNOR'S LANE TO THE EAST AND THE EXISTING BELOW GRADE SCHOOL OF MEDICINE CENTRAL LOADING FACILITY (LOADING DOCK) TO THE SOUTH AND EAST. PRINCIPAL FUNCTIONS AND SPACES IN THIS BUILDING WILL INCLUDE RESEARCH LABORATORIES, OFFICES, ADMINISTRATIVE SPACES, CAFE, AND MEETING SPACES.

THE BUILDING FORM, AESTHETIC, AND MATERIALITY ARE CONSISTENT WITH THE ARCHITECTURAL KIT OF PARTS THAT HAS BEEN EMPLOYED THROUGHOUT THE SCHOOL OF MEDICINE AND ADJACENT PARTS OF WEST CAMPUS FOR THE PAST TWO DECADES. THE MASSING, HEIGHT, AND FLAT ROOF ARE CONSISTENT WITH THE SURROUNDING STRUCTURES. THE BUILDING FENESTRATION IS A DIRECT EXPRESSION OF THE HIGHLY REPETITIVE INTERIOR PLANNING MODULE, COMPRISED PREDOMINANTLY OF RESEARCH LABORATORIES AND ASSOCIATED WRITE-UP SPACES. COLLABORATIVE SPACES (CONFERENCE ROOMS, BREAK ROOMS, AND EXTERIOR TERRACES) ARE LOCATED IN THE NORTHEAST AND NORTHWEST CORNERS OF THE BUILDING, TO CAPITALIZE ON INDIRECT NATURAL LIGHT AND VIEWS OF THE SURROUNDING LANDSCAPE. THE MAJORITY OF THE BUILDING IS CLAD IN A COMBINATION OF BUFF COLORED TERRA COTTA PANEL AND HIGH-PERFORMANCE GLAZING IN A SIMPLE AND A RECTILINEAR EXPRESSION FACING OUTWARD TOWARD CAMPUS DRIVE AND WELCH ROAD. THE NORTH FAÇADE UNDOULATES IN ORDER TO ENGAGE AND ACTIVATE SOCIAL INTERACTION ALONG DISCOVERY WALK - THE PRIMARY PEDESTRIAN/BICYCLE PATH FOR THE SCHOOL OF MEDICINE. THIS NORTH FAÇADE IS EXPRESSED IN CURVILINEAR GLAZING, CONSISTENT WITH THE EXPRESSION OF "GATEWAY" FOUND AT OTHER BUILDINGS IN THE NEIGHBORHOOD (E.G. CCSR, CLARK CENTER, CHEM-H / SNI COMPLEX). THE MOST COMMUNAL AMENITY SPACES (CAFÉ AND LARGE CLASSROOM) ARE LOCATED AT GRADE ALONG DISCOVERY WALK AND CLAD WITH RED TERRA COTTA PANEL, CONSISTENT WITH THE KIT OF PARTS (E.G. FRIEDERICH CENTER, AND HUANG CENTER, BIOMEDICAL INNOVATIONS BUILDING, CENTER FOR ACADEMIC MEDICINE). THE RESULT IS A UNIFIED EXPRESSION AND PEDESTRIAN EXPERIENCE ALONG THE PATH THROUGH THE HEART OF THE SCHOOL OF MEDICINE, WHILE MAINTAINING CONSISTENCY OF EXPRESSION AT THE CAMPUS EDGE.

THE PROPOSAL INCLUDES LANDSCAPED AREAS TO THE NORTH, EAST, SOUTH AND WEST OF THE NEW BUILDING AND THE EXTENSION OF DISCOVERY WALK TO MEET WELCH ROAD. THE BUILDING WILL BE LINKED TO THE EXISTING STANFORD SERVICE TUNNEL NETWORK THROUGH THE EXISTING SCHOOL OF MEDICINE CENTRAL LOADING FACILITY TO THE EAST BY A NEW BELOW-GRADE TUNNEL CONNECTION.

THE PROJECT REQUIRES REDISTRIBUTION OF APPROXIMATELY 55,000 ACADEMIC SF FROM THE DAPER/ADMINISTRATIVE DEVELOPMENT DISTRICT TO THE CAMPUS CENTER DEVELOPMENT DISTRICT.

THIS PROPOSAL INCLUDES THE REMOVAL OF 55 SURFACE PARKING SPACES, MOSTLY CONSISTING OF 20-MINUTE LOADING AND SERVICE VEHICLE PARKING THAT WERE ASSOCIATED WITH PRIOR USE ON THE SITE. FUTURE OCCUPANTS OF THE BUILDING ARE ALREADY WORKING IN THE AREA AND WOULD CONTINUE TO USE THE SAME TRANSPORTATION AND PARKING SERVICES. THERE ARE MULTIPLE COMMUTER PARKING FACILITIES NEARBY, INCLUDING THE STOCK FARM GARAGE AND THE STOCK FARM NORTH AND SOUTH LOTS, WHICH ARE AVAILABLE TO EMPLOYEES OF THE NEW BIOMEDICAL RESEARCH LABORATORY BUILDING. THEY WILL ALSO CONTINUE TO HAVE ACCESS TO THE UNIVERSITY'S ROBUST TDM PROGRAM TO TAKE ALTERNATIVE MODES OF TRANSPORTATION TO CAMPUS, INCLUDING MULTIPLE MARGUERITE ROUTES WITH STOPS ALONG WELCH ROAD AND CAMPUS DRIVE. IN GENERAL, THE CIRCULATION AND ACCESS ASSOCIATED WITH THE PROPOSED PROJECT WOULD NOT BE ALTERED FROM CURRENT CONDITIONS.

OPERATIONALLY, THE BUILDING WILL HAVE SECURED 24/7 ACCESS FOR RESEARCHERS WITH A TYPICAL 8AM-6PM MONDAY THROUGH FRIDAY WORKDAY WINDOW FOR MOST OCCUPANTS. A GROUND FLOOR CLASSROOM WILL BE A RESOURCE FOR THE SCHOOL OF MEDICINE AND A PUBLIC CAFÉ WILL BE AN AMENITY FACING THE NEW DISCOVERY WALK EXTENSION AND ACTIVATING THE GROUND FLOOR OF THE BUILDING. THE PROJECT INCLUDES REMOVAL OF 3 PROTECTED OAK TREES AND PROPOSES PLANTING 9 REPLACEMENT TREES AT CAMPUS AREAS NEAR THE PROJECT SITE. SEE PROJECT DRAWINGS FOR THE SITE TREE DISPOSITION & PROTECTION PLAN FOR DETAILS.

SITE DATA INFORMATION

OWNER: LELAND STANFORD JR. UNIVERSITY

STANFORD PROJECT NUMBER: 5548

BUILDING NUMBER: 07-545

PROJECT ADDRESS: 1215 WELCH RD, STANFORD, CA 94305

APN : 142-05-045

PROJECT PHASING AND PERMITTING

PROJECT REQUIRES MULTIPLE PHASES AND PERMITS TO WORK AROUND THE EXISTING HAGEY BUILDING WHICH WILL BE OCCUPIED UNTIL THE NEW BUILDING IS READY.

* SEE SHEET ASA-G0.06 & ASA-G0.07 FOR PHASING AND PERMITTING STRATEGY

GRADING QUANTITIES

* SEE CIVIL SHEET ASA-C3.01

PROJECT DIRECTORY

OWNER: STANFORD UNIVERSITY
DEPARTMENT OF PROJECT MANAGEMENT
560 FREMONT RD.
STANFORD, CA 94305
CONTACT: BIJENDRA SEWAK
PHONE: 650.725.9262
EMAIL: bsewak@stanford.edu

CONTRACTOR: WHITING-TURNER CONTRACTING COMPANY
4690 CHABOT DRIVE, SUITE 120
PLEASANTON, CA 94588
CONTACT: OWEN BARCELONA
PHONE: 925.580.8424
EMAIL: owen.barcelona@Whiting-Turner.com

ARBORIST: MONARCH LANDSCAPE COMPANY
1250 AMES AVE
MILPITAS, CA 95035
CONTACT: AMBER GRAVES ALVARES
PHONE: 925.519.7262
EMAIL: amber.graves@monarchlandscape.com

ARCHITECT: ZGF ARCHITECTS LLP
1223 SW WASHINGTON STREET, SUITE 200
PORTLAND, OREGON 97205
CONTACT: TYLER ASHWORTH
PHONE: 503.863.2274
EMAIL: tyler.ashworth@zgf.com

CIVIL ENGINEER: BKF ENGINEERS
7901 STONERIDGE DR, SUITE 360
PLEASANTON, CA 94588
CONTACT: STEVE REYNOLDS
PHONE: 925.396.7700
EMAIL: sreynolds@bkf.com

LANDSCAPE: INTERSTICE ARCHITECTS
1173 SUTTER ST
SAN FRANCISCO CA 94109
CONTACT: ZOE ASTRACHAN
PHONE: 415.285.3960
EMAIL: za@intersticearchitects.com

LIGHTING: INTERFACE ENGINEERING
1999 HARRISON ST SUITE 550
OAKLAND, CA 94612
CONTACT: KRISTINA SANTI
PHONE: 415.489.3229
EMAIL: KristinaS@interfaceeng.com

ASA SHEET LIST

ASA-G0.00	COVER PAGE
ASA-G0.01	EXISTING SITE PHOTOS
ASA-G0.02	EXISTING SITE PHOTOS
ASA-G0.03	STANFORD GUP TRACKING SHEET
ASA-G0.03A	GUP CHECKLIST
ASA-G0.04	GUP AREA CALCULATIONS NEW BUILDING
ASA-G0.05	BUILDING GROSS AREAS
ASA-G0.06	PROJECT SEQUENCE NARRATIVE
ASA-G0.07	PROJECT SEQUENCING DIAGRAMS
ASA-G0.08	CONSTRUCTION LOGISTICS PLANS

ASA-C1.00	EXISTING TOPOGRAPHIC SURVEY
ASA-C1.01	EXISTING SITE UTILITIES
ASA-C2.00	SURFACE DEMOLITION PLAN
ASA-C2.01	UTILITY DEMOLITION PLAN
ASA-C3.00	GRADING AND DRAINAGE PLAN
ASA-C3.01	EARTHWORK AND SECTIONS
ASA-C3.02	SECTIONS
ASA-C3.03	SECTIONS
ASA-C3.04	SECTIONS
ASA-C4.00	UTILITY PLAN
ASA-C5.00	STORMWATER CONTROL PLAN
ASA-C6.00	HORIZONTAL CONTROL PLAN
ASA-C7.00	PAVING AND STRIPING PLAN
ASA-C8.00	EROSION CONTROL PLAN
ASA-C8.01	EROSION CONTROL DETAILS BMP-1
ASA-C8.02	EROSION CONTROL DETAILS BMP-2
ASA-C9.00	CIVIL CONSTRUCTION DETAILS
ASA-C9.01	CIVIL CONSTRUCTION DETAILS
ASA-C9.02	CIVIL CONSTRUCTION DETAILS
ASA-C9.03	CIVIL CONSTRUCTION DETAILS
ASA-C9.04	CIVIL CONSTRUCTION DETAILS
ASA-C9.05	CIVIL CONSTRUCTION DETAILS
ASA-C9.06	CIVIL CONSTRUCTION DETAILS
ASA-C10.00	FIRE ACCESS PLAN

ASA-L0.00	LANDSCAPE GENERAL NOTES AND INDEX
ASA-L0.10	LANDSCAPE MATERIAL AND PLANTING SCHEDULE
ASA-L1.00	TREE DISPOSITION & PROTECTION PLAN
ASA-L2.00	LANDSCAPE MATERIAL PLAN
ASA-L2.00A	LANDSCAPE PLAN PHASE B
ASA-L2.00B	LANDSCAPE PLAN PHASE C
ASA-L2.10	LANDSCAPE SOIL & TREE PLAN
ASA-L2.20	LANDSCAPE PRELIMINARY UNDERSTORY PLANTING PLAN
ASA-L7.00	IRRIGATION GENERAL NOTES & INDEX
ASA-L7.10	IRRIGATION PLAN
ASA-L7.20	IRRIGATION DETAILS
ASA-L7.21	IRRIGATION DETAILS

ASA-EL0.02	LUMINAIRE SCHEDULE
ASA-EL1.01	PLAN, SITE - LIGHTING
ASA-EL1.02	PLAN, SITE - LIGHTING PHOTOMETRIC CALCULATION

ASA-A1.00	OVERALL SITE PLAN SCOPE OF WORK
ASA-A1.01	BASEMENT PLAN
ASA-A1.02	LEVEL 1 PLAN
ASA-A1.03	LEVEL 2 PLAN
ASA-A1.04	LEVEL 3 PLAN
ASA-A1.05	LEVEL 4 PLAN
ASA-A1.06	ROOF PLAN
ASA-A3.03	ELEVATIONS, EXTERIOR NS
ASA-A3.04	ELEVATIONS, EXTERIOR EW

Full Design Team Roster on Cover Sheet

Client and Project Information



1215 Welch Road

Original Issue
ASA SUBMITTAL 12.06.2024

Revisions

Key Plan and Orientation

Sheet Status

Sheet Title
COVER PAGE

Sheet Number

ASA-G0.00

Current Issue
ASA SUBMITTAL

Current Issue Date
12.06.2024

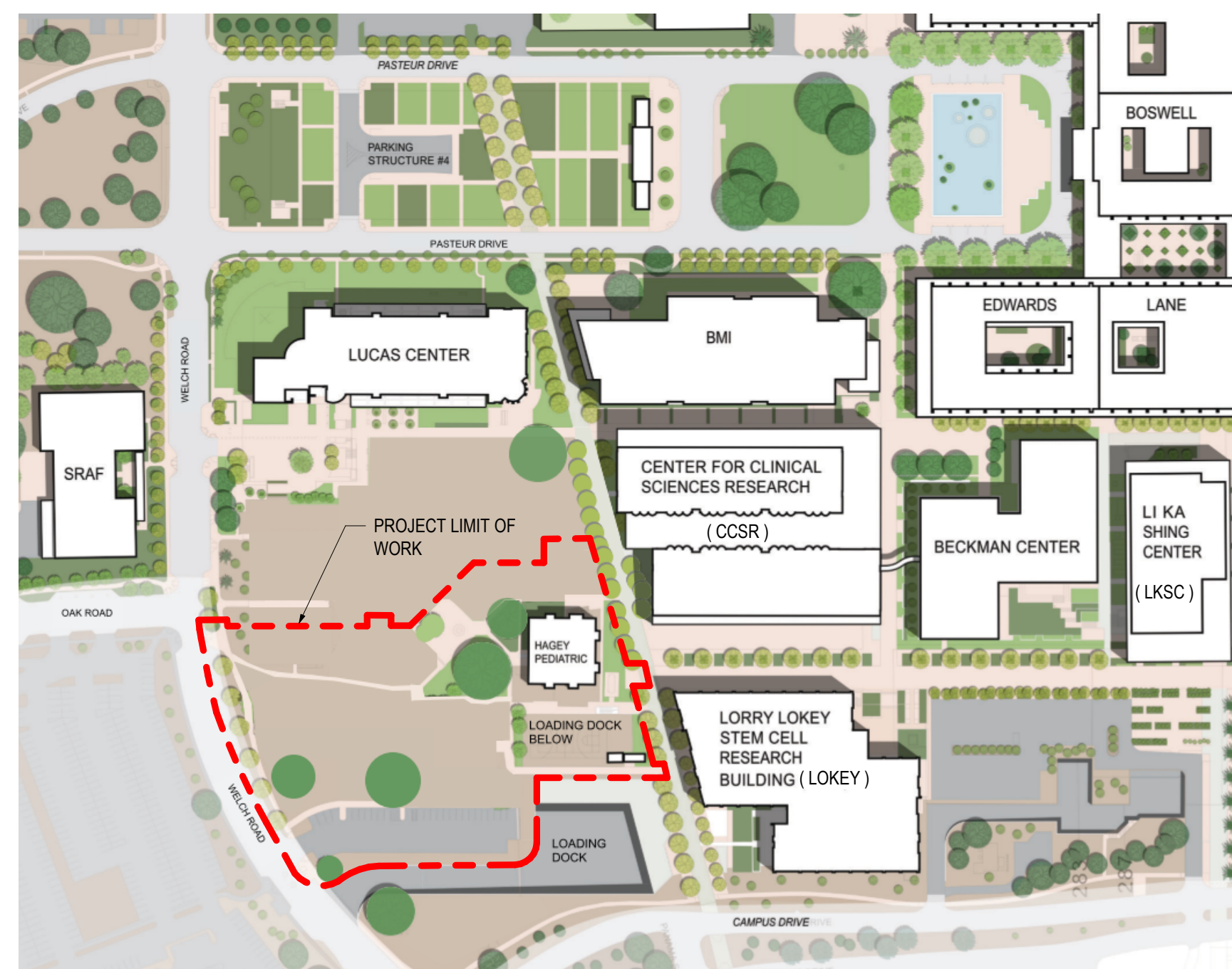
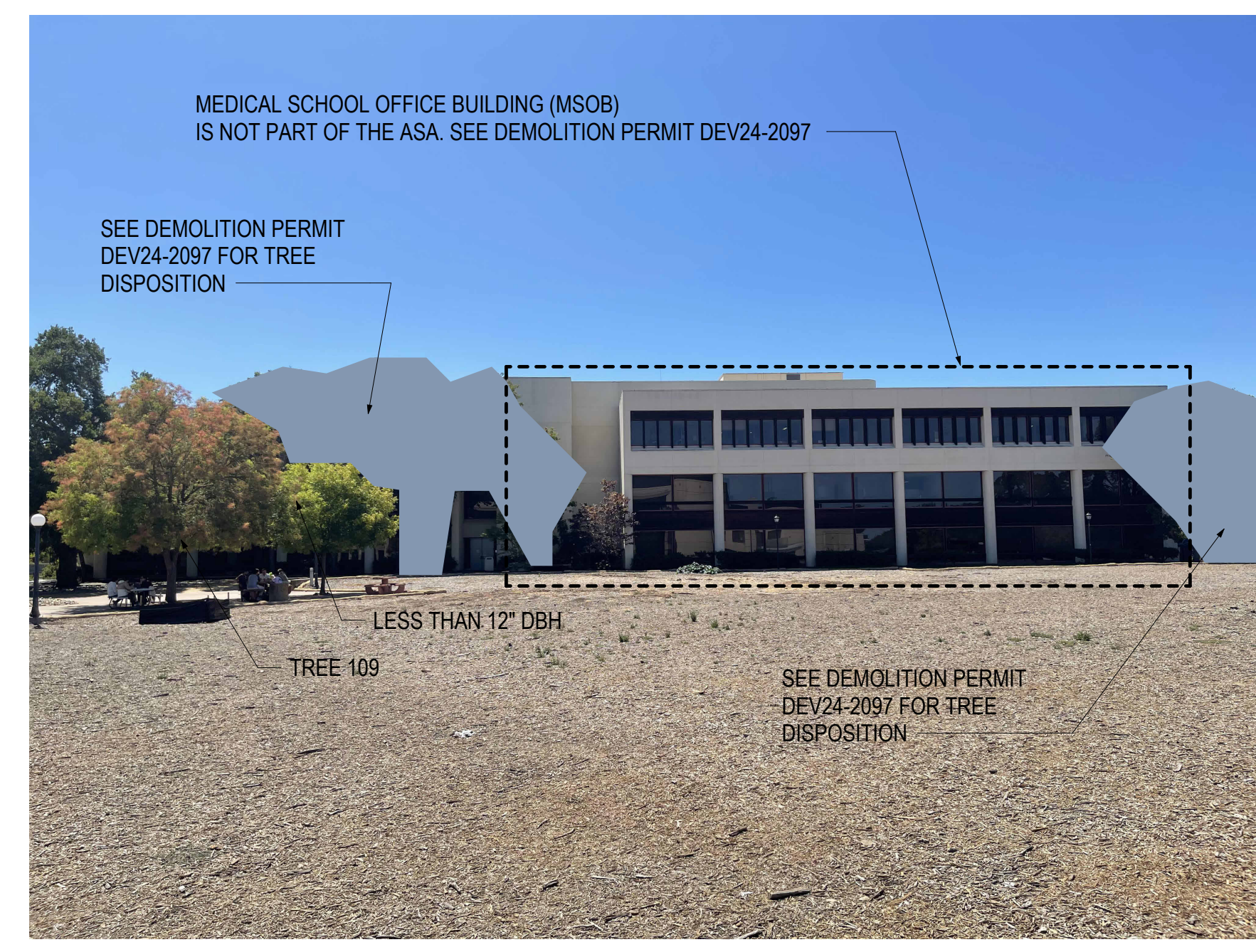
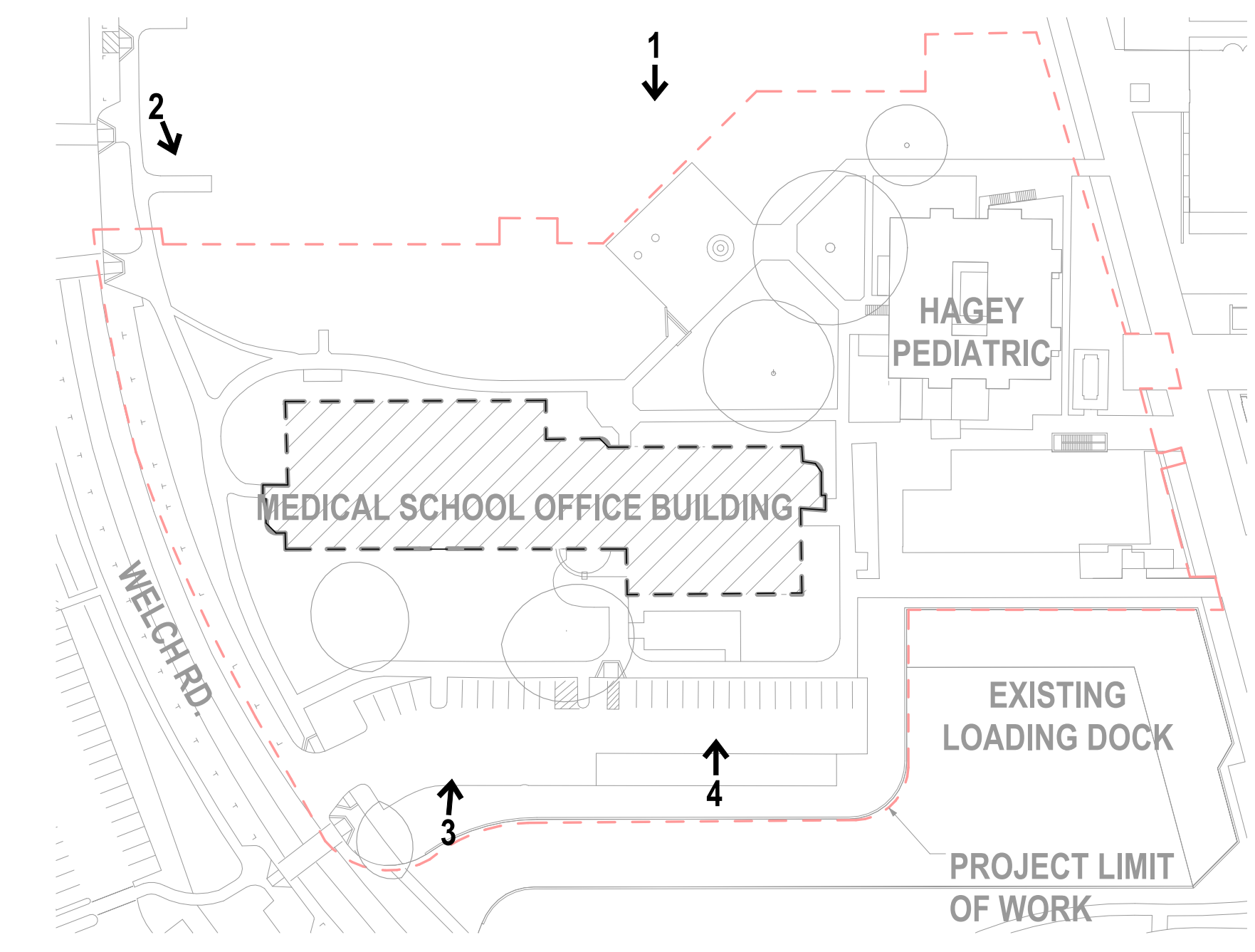
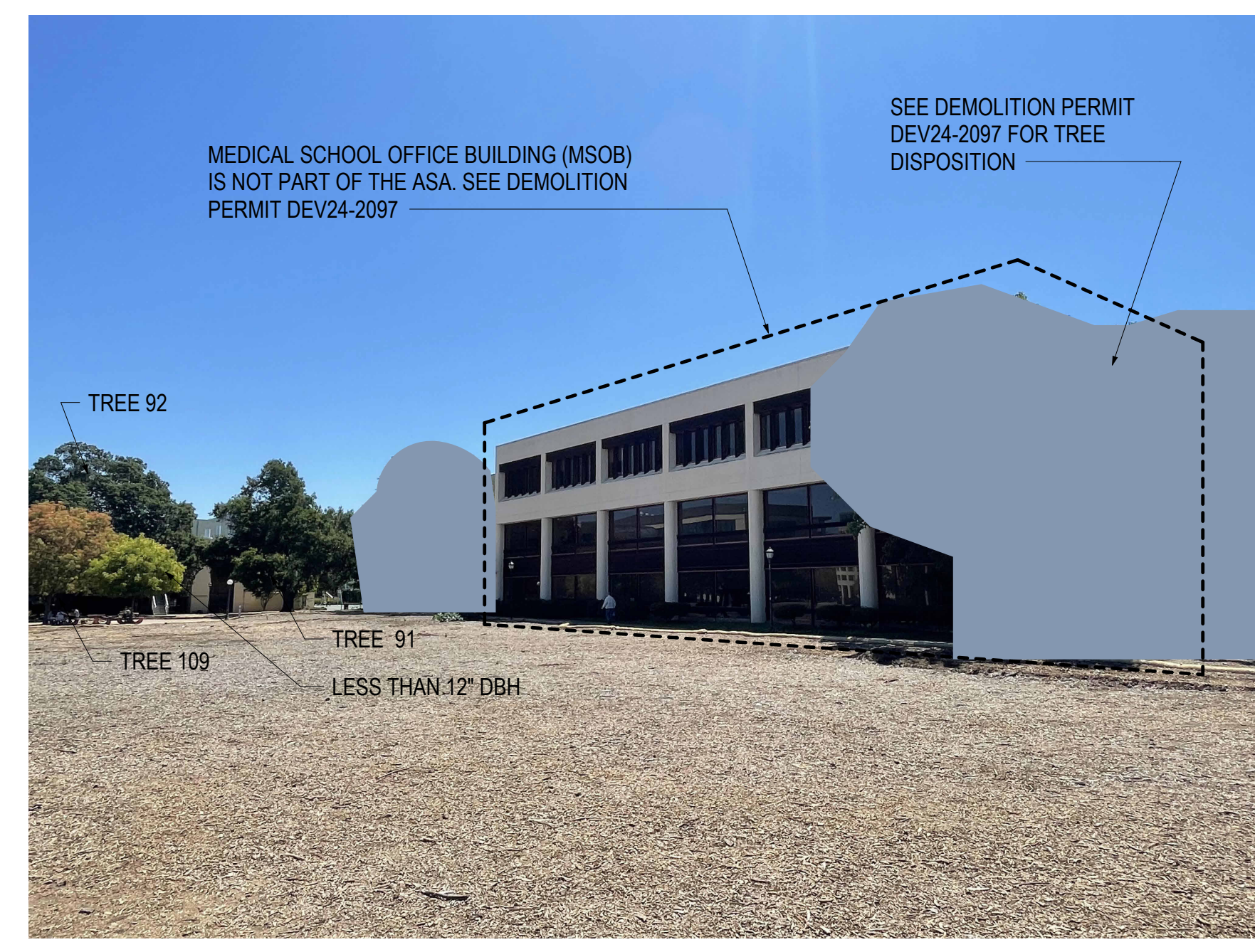


ILLUSTRATION OF STANFORD CAMPUS PLAN - NTS

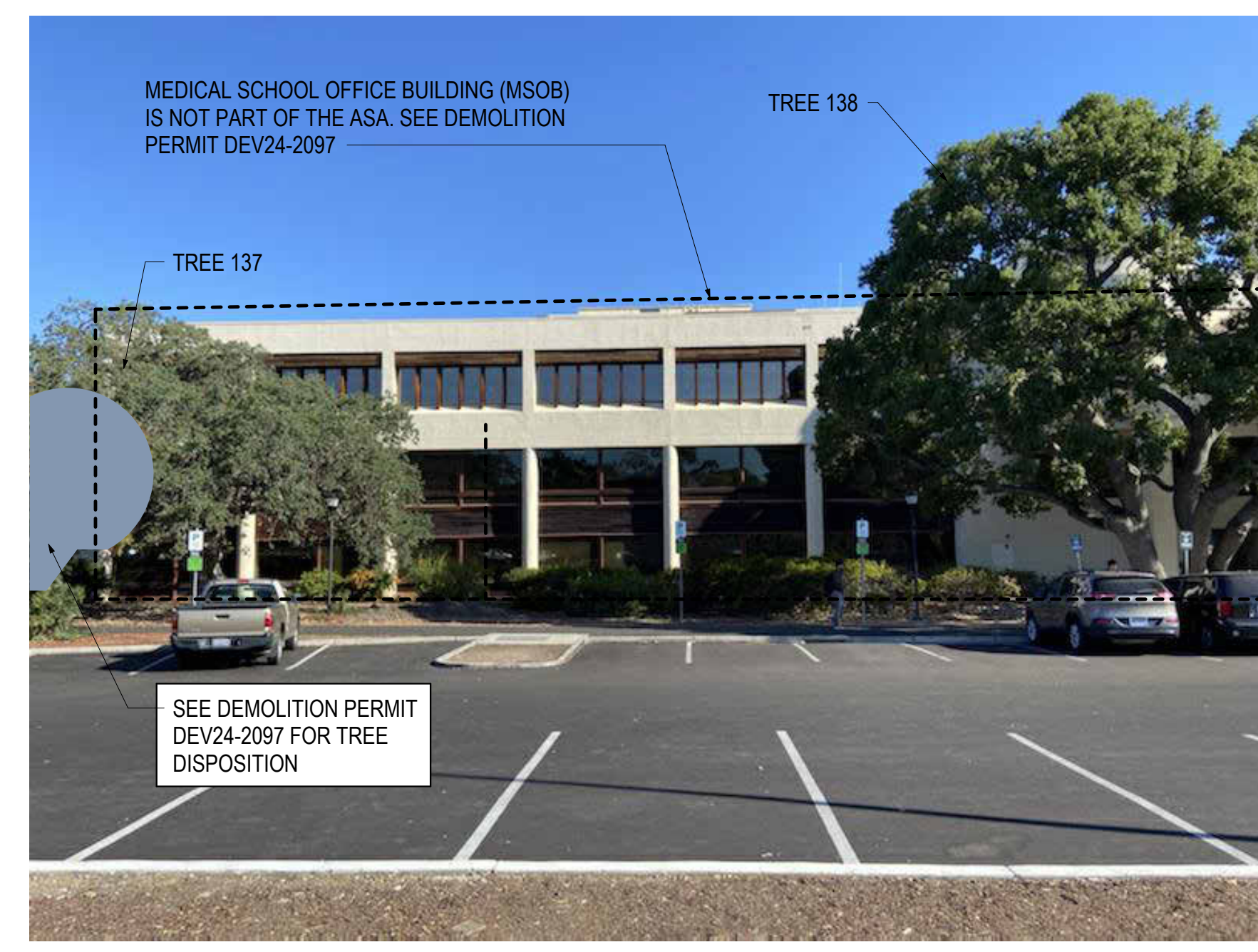




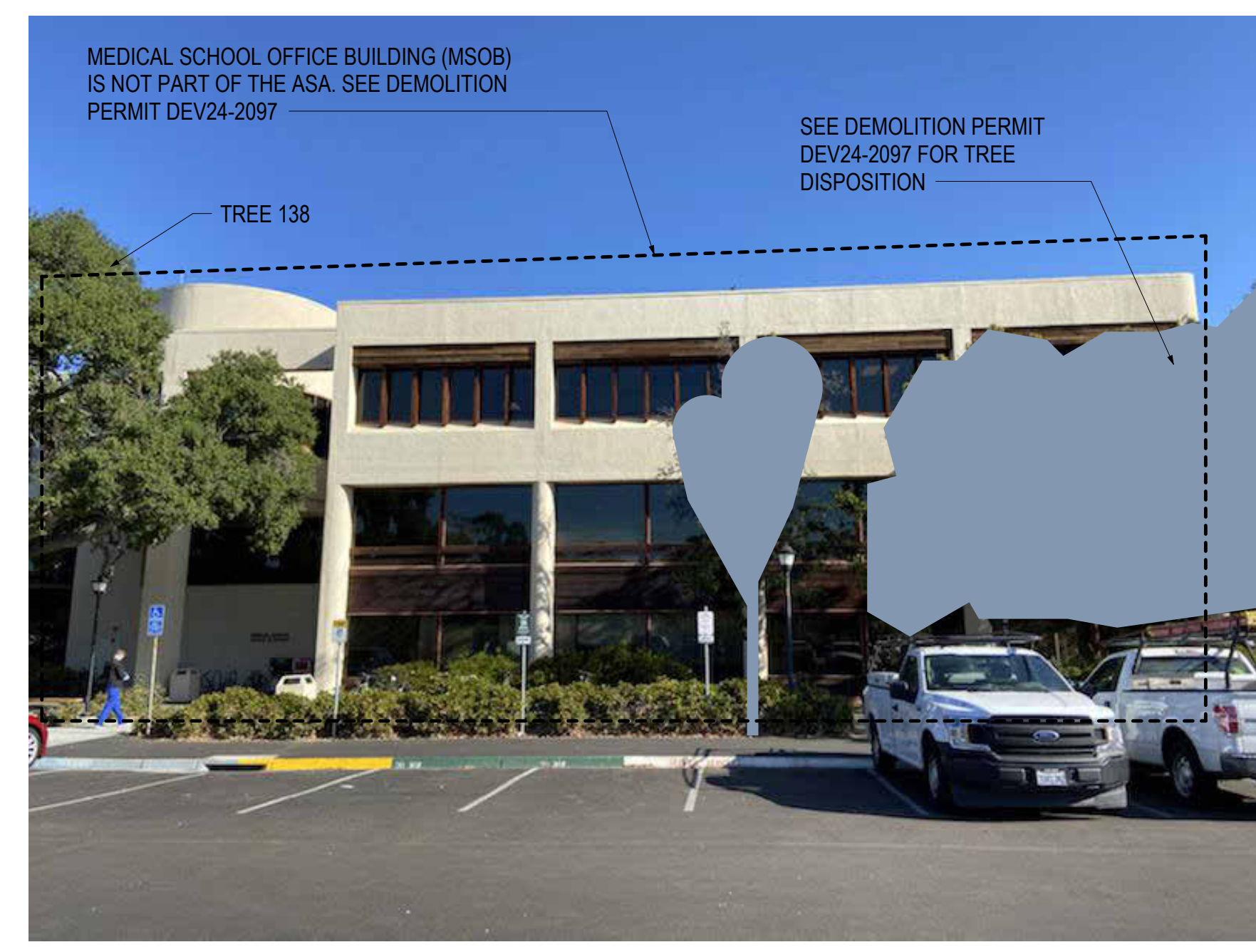
1 NORTH ELEVATION - EAST END



2 NORTH ELEVATION - WEST END



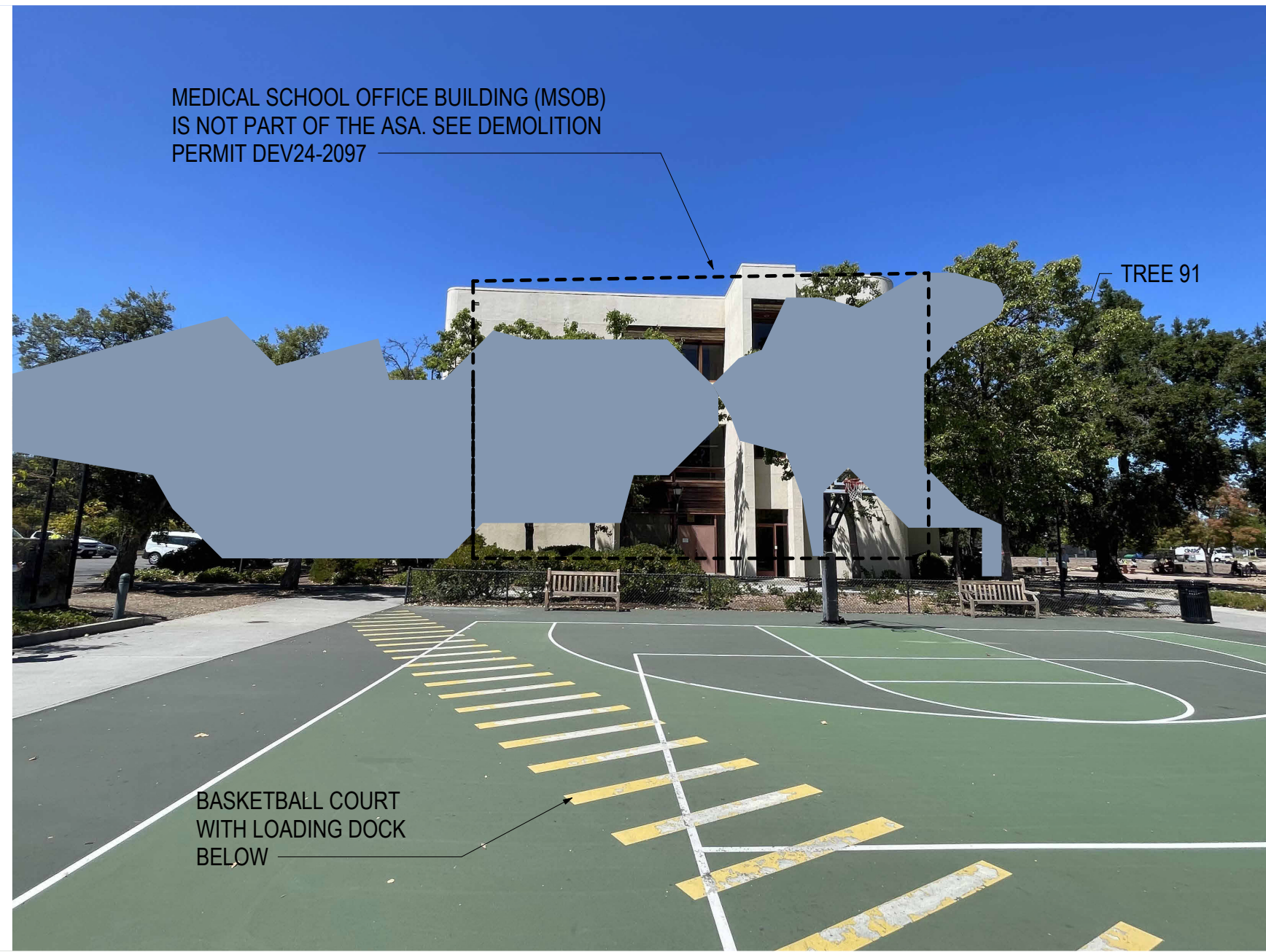
3 SOUTH ELEVATION - WEST END



4 SOUTH ELEVATION - EAST END

Sheet Size: 24 x 36 | 12/6/2024 3:33:38 PM | 2' | 1" | 0'

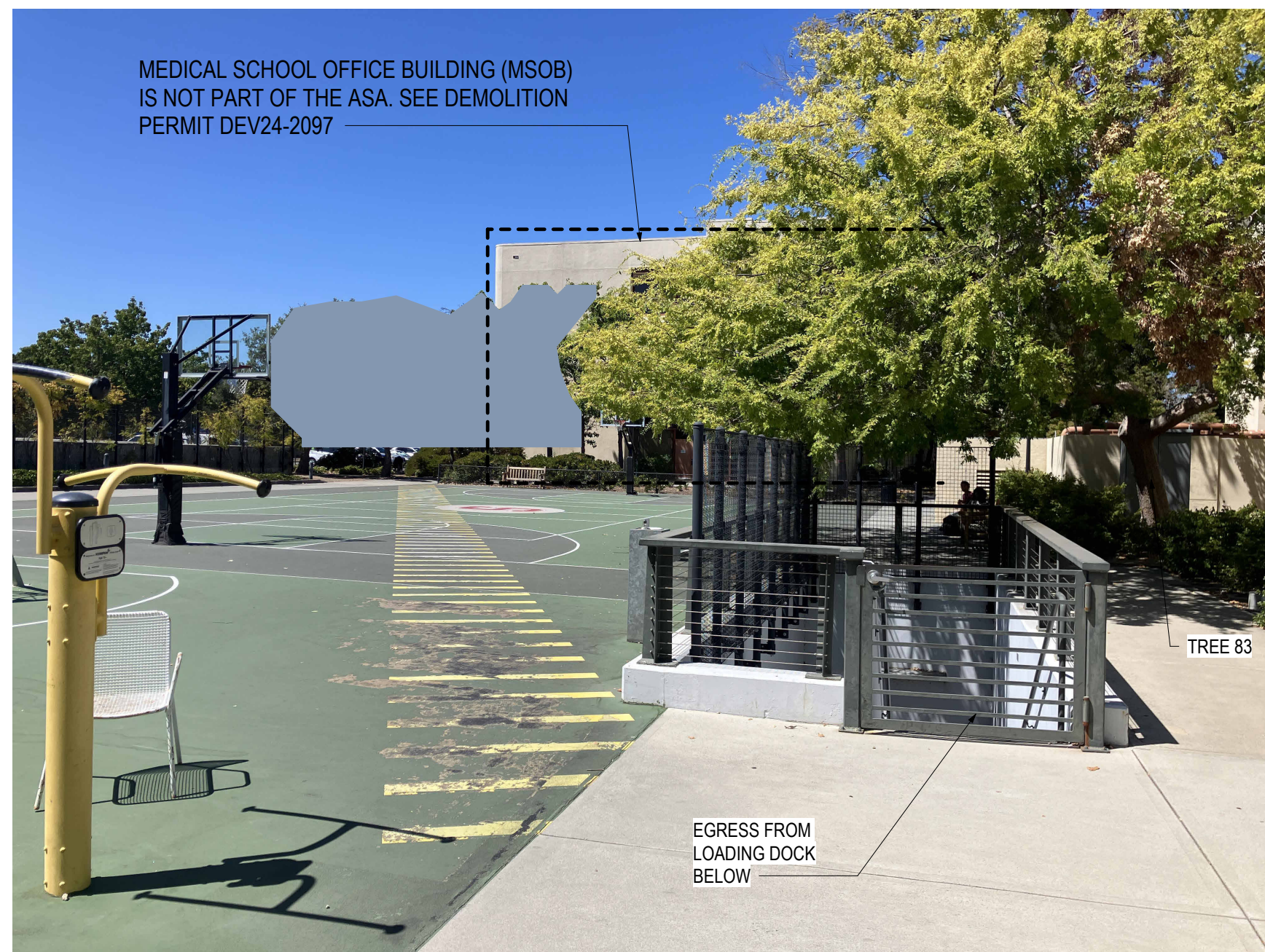
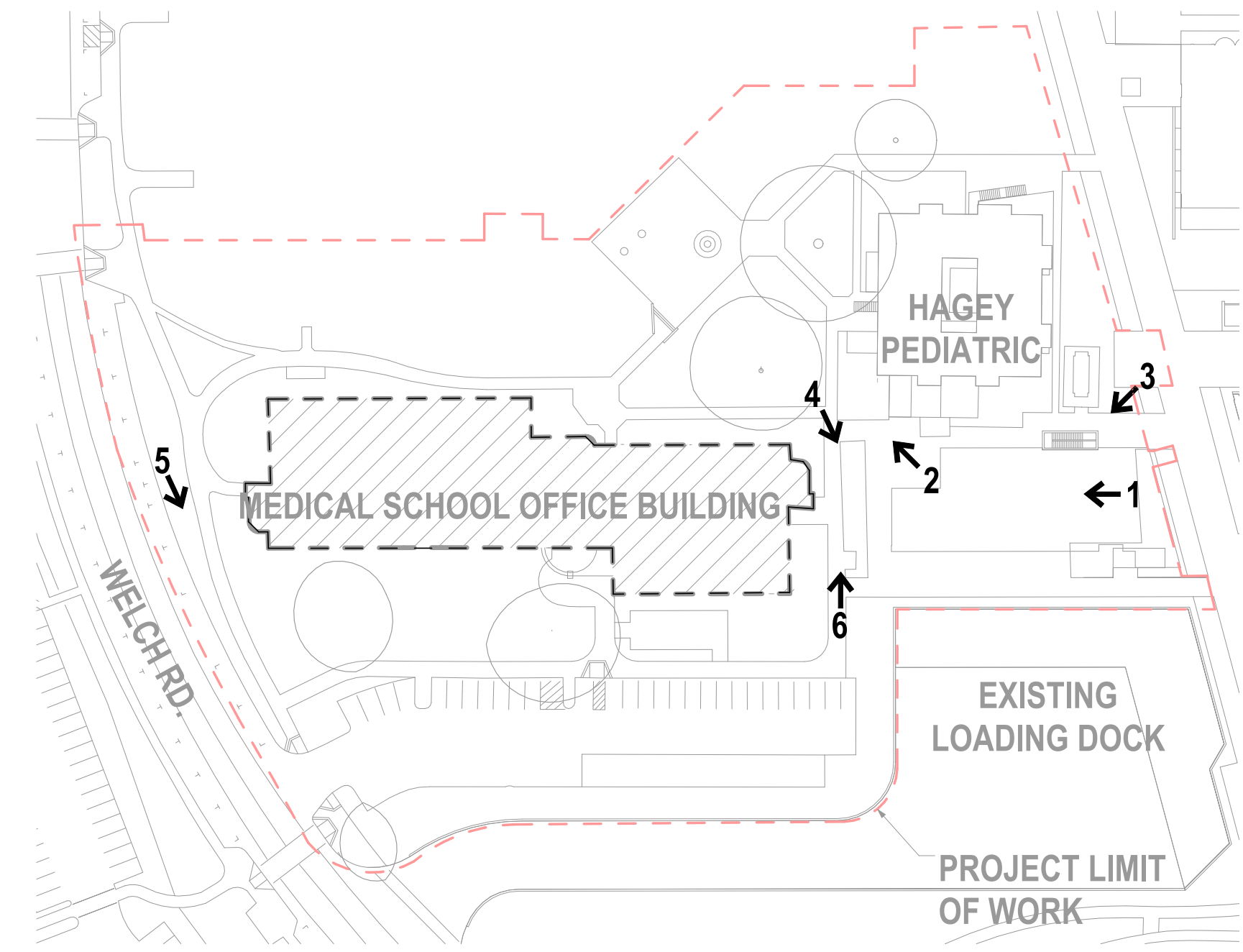




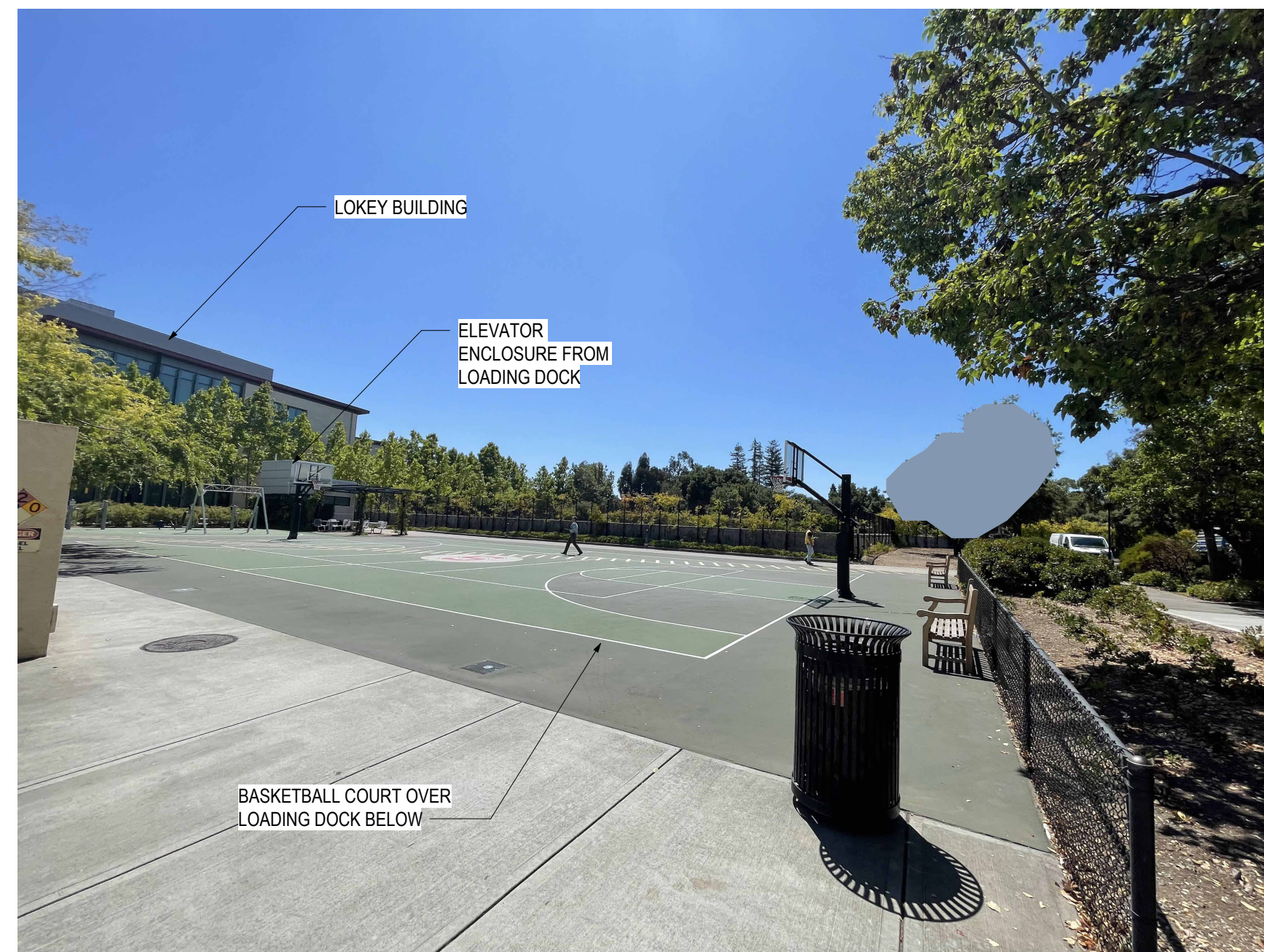
1 BASKETBALL COURT - LOOKING WEST TO MSOB



2 LOOKING NORTHWEST - TOWARDS TREE 91 & 92



3 LOOKING WEST ACROSS BASKETBALL COURT & LOADING DOCK STAIR



4 LOOKING SOUTHEAST ACROSS BASKETBALL COURT



5 WELCH ROAD SIDEWALK AND UTILITIES



6 LOOKING NORTH TO HAGEY AND TREE 92



LAND BUILDINGS & REAL ESTATE
Land Use & Environmental Planning

Stanford

December 5th, 2024

Ms. Charu Ahluwalia
Santa Clara County Planning Office
70 West Hedding, East Wing, 7th floor
San Jose, CA 95110

Re: Redistribution of GUP sf from the Department of Athletics, Physical Education, and Recreation (DAPER)/Administrative Development District to the Campus Center Development District for the Biomedical Research Laboratory Building Project

Dear Charu:

This letter documents the redistribution of GUP sf from the DAPER/Administrative to the Campus Center Development District, supporting the application of the Biomedical Research Laboratory Building project at 1215 Welch Road. The Biomedical Research Laboratory will be a new 184,435 academic sf building, affiliated with the Stanford School of medicine.

As reported in Annual Report 23, there were 47,286 sf remaining in the Campus Center Development District. Since then, the County has approved demolition permits for the Tree modulars, Bambi modulars and Medical School Office Building, that has credited 82,802 GUP sf to the Campus Center District. Therefore, 129,376 sf currently remains in the Campus Center Development District. To construct the 184,435 sf new Biomedical Research Laboratory Building in this district, 55,059 sf would need to be redistributed to the Campus Center Development District from the DAPER/Administrative Development District.

The Campus Center Development District was allocated 1,605,000 academic sf at the beginning of the 2000 GUP. Per GUP Condition E.2.a, this amount can now be increased by up to 20% or 20,000 square feet, whichever is greater, without requiring environmental assessment as specified in Condition D.6 or Planning Commission approval.

Redistribution of 55,059 sf for the new Biomedical Research Laboratory Building would not exceed 20% of the academic sf allocated to Campus Center (i.e. 321,000 academic sf), which is the limit prescribed in Condition E.2.a, and therefore no additional environmental review and no Planning Commission approval would be required for this redistribution.

Thank you for your attention to this.

Ramya Subramanian

Ramya Subramanian, LEED AP
Senior Planner
Land Use and Environmental Planning

cc: Bijendra Sewak, Paul Forti

Attachment A - Development District GUP tracking sheet

Last Updated by Stanford LERP 12/05/2024												
Building Permits Approved in FY 16												
Development Items	Center Center	SAFR & Administration	East Campus	Quarry	Lifepark	West Campus	Health	Lignite	Albion	San Juan	Total	Notes
2000 GUP Building Area Distribution (guf)	1,605,000	200,000	180,000	50,000	20,000	0	0	0	0	0	2,055,000	
GUP Building Area Distribution at the end of FY 16 (allocation)	1,389,337	370,000	100,136	50,000	20,000	16,795	4,732	75,000	0	0	2,035,000	
ASA Approved Space in AR 16	24,458	-1,508	0	0	0	0	0	0	0	0	23,950	
Building Permits Approved Space in AR 16	4,538	-1,508	0	0	0	0	0	0	0	0	3,030	
Previous ARs Cumulative Building Permit Approvals	978,506	364,681	-38,112	0	0	16,078	3,192	73,195	0	0	1,397,540	
Cumulative Total Building Permits Approved	983,044	363,173	-38,112	0	0	16,078	3,192	73,195	0	0	1,400,500	
GUP Balance Remaining at end of FY 16 (defined for AR 18)	646,293	6,827	147,248	50,000	20,000	717	1,540	1,805	0	0	692,366	Project approved in FY 13. Additional of from Building Permit stage Construction changed from 2,268 to 2,061 sf. No change in identification. Full project not listed here because demo and construction credits recorded before FY 16. In Reg. C, AR 16 includes the change of 82 sf. Table 3 of the Body of AR 18 includes a footnote to explain this.
Change in Regional Loading Dock Project												
Building Permits Approved Space in AR 16	6,000	-1,108	0	0	0	0	0	0	0	0	4,892	
Cumulative Total Building Permits Approved (defined for AR 18)	989,044	362,065	-38,112	0	0	16,078	3,192	73,195	0	0	1,405,432	
GUP Balance Remaining at end of FY 16 (defined for AR 18)	640,293	6,827	147,248	50,000	20,000	717	1,540	1,805	0	0	687,366	
Building Permits Approved in FY 17												
Development Items <th>Center Center</th> <th>SAFR & Administration</th> <th>East Campus</th> <th>Quarry</th> <th>Lifepark</th> <th>West Campus</th> <th>Health</th> <th>Lignite</th> <th>Albion</th> <th>San Juan</th> <th>Total</th> <th>Notes</th>	Center Center	SAFR & Administration	East Campus	Quarry	Lifepark	West Campus	Health	Lignite	Albion	San Juan	Total	Notes
Home of Champions		2,460									2,460	Was incorrectly placed in DAPER District in Jan 2018 version of this tracking sheet.
Soft Learning Center								295			295	Tracking sheet.
CEM & S 102	233,943										233,943	Updated 12/12/20 from 230,946 to 233,943 sf.
Educational Farm Hall (Huffman Barn) (Reduction)			566			(566)					0	Reduction from EC to WC
Educational Farm Hall (Huffman Barn)											1,263	Reduction from EC to WC
Dinning House (Reduction)											(10,490)	Reduction from EC to WC
Dinning House											16,471	Reduction from EC to WC
Food Amphitheater renovations	9,207										9,207	Updated 7/20/24 from 14,421 to 16,471 sf. In Reg. C, AR 17 is updated to include this change. Table 5 of the Body of AR 18 includes a footnote to explain this.
Quarry Chem demolition	(14,700)										(14,700)	
Renov. Mech for East Campus Utilities	(11,790)										(11,790)	
GUP Building Area Distribution at the end of FY 16 (allocation)	1,389,337	370,000	92,100	50,000	20,000	17,341	4,732	91,490	0	0	2,035,000	
Building Permits Approved in FY 2017	78,677	18,245	0	0	0	1,361	0	13,762	0	0	102,445	
Cumulative Total Building Permits Approved	1,367,414	388,245	92,100	50,000	20,000	18,702	4,732	105,252	0	0	2,137,445	
Future Balance	107,881	16,572	136,212	50,000	20,000	1	1,540	1,229	0	0	417,367	
Building Permits Approved in FY 18												
Development Items <th>Center Center</th> <th>SAFR & Administration</th> <th>East Campus</th> <th>Quarry</th> <th>Lifepark</th> <th>West Campus</th> <th>Health</th> <th>Lignite</th> <th>Albion</th> <th>San Juan</th> <th>Total</th> <th>Notes</th>	Center Center	SAFR & Administration	East Campus	Quarry	Lifepark	West Campus	Health	Lignite	Albion	San Juan	Total	Notes
CCSC Child Care Center (Reduction)	(10,450)		(5,799)								(16,249)	Approved 7/31/17
CCSC Child Care Center (Construction)			13,867								13,867	Includes "Other SF" tab. Will be using more children's sf, therefore not net change.
GUP 100k Tee Demolition of Storage shed - ASA Modification								(199)			(199)	Previously demolition of 113 sf and construction of 113 sf, therefore net zero change.
GUP 100k Tee Restroom (Construction)									142		142	Previously demolition of 113 sf and construction of 113 sf, therefore net zero change.
Academy Advancing and Racing Center (Overlays Hall)	22,627										22,627	Updated 12/11/20. Was 23,774 sf of ASA and later 23,075 sf.
Environmental Health and Services Expansion	14,987										14,987	Updated 10/17/18. Was 14,309 sf of ASA.
Ensuite Commons	14,121										14,121	
Center for Academic Medicine (Reduction)			113,000		(113,000)						0	Reduction from EC to Quarry. Approved 11/16/17
Center for Academic Medicine											112,120	Updated 11/12/20. Was 113,821 sf of ASA.
Public Safety (Reduction)	(4,267)		4,267								0	Note: A reduction of 4,479 from EC to Quarry was approved, however this amount is now reduced to 4,267 sf.
Public Safety (Construction)	(1,778)										(1,778)	
Public Safety (Construction)											27,194	Updated 10/17/18
ISCC/ICU (Reduction)	(1,844)										(1,844)	ASA approved 1/1/18. ISCC/ICU update. Redistribution from Lignite to DAPER - reduce amount redistributed from 1,844 to 1,206. Transfer of 1,844 is credited in AR 18.
ISCC/ICU (Reduction amendment)											(1,811)	ISCC/ICU amendment.
GUP Building Area Distribution at the end of FY 16 (allocation)	1,389,337	370,796	-27,167	140,000	20,000	17,341	4,732	89,961	0	0	2,035,000	
Building Permits Approved in FY 2018	1,248	6,448	(10,120)	0	0	0	0	0	0	0	2,176	For Table 3 of the Annual Report Book.
Cumulative Total Building Permits Approved	1,390,585	377,244	-37,287	140,000	20,000	17,341	4,732	89,961	0	0	2,037,176	For Table 3 of the Annual Report Book.
Future Balance	165,366	6,448	2,897	12,880	20,000	0	1,997	0	0	0	211,088	
Building Permits approved in FY 19												
Development Items <th>Center Center</th> <th>SAFR & Administration</th> <th>East Campus</th> <th>Quarry</th> <th>Lifepark</th> <th>West Campus</th> <th>Health</th> <th>Lignite</th> <th>Albion</th> <th>San Juan</th> <th>Total</th> <th>Notes</th>	Center Center	SAFR & Administration	East Campus	Quarry	Lifepark	West Campus	Health	Lignite	Albion	San Juan	Total	Notes
District Work Center - Panama	3,326										3,326	
District Work Center - Ruth	3,326										3,326	
District Work Center - Memorial	3,326										3,326	
Softball Stadium Improvements			130								130	
Stock Farm Greenhouses (Demolition)	(7,832)										(7,832)	
Stock Farm Greenhouses (Construction)	8,352										8,352	
GUP Building Area Distribution at the end of FY 19 (allocation)	1,389,337	375,796	(7,167)	140,000	20,000	17,341	4,732	89,961	0	0	2,035,000	
Building Permits Approved in FY 2019	13,248	130	0	0	0	0	0	0	0	0	13,378	
Cumulative Total Building Permits	1,402,585	375,926	(7,167)	140,000	20,000	17,341	4,732	89,961	0	0	2,048,378	
Future Balance	245,268	6,518	2,897	12,880	20,000	0	1,997	0	0	0	289,560	
Building Permits approved in FY 20												
Development Items <th>Center Center</th> <th>SAFR & Administration</th> <th>East Campus</th> <th>Quarry</th> <th>Lifepark</th> <th>West Campus</th> <th>Health</th> <th>Lignite</th> <th>Albion</th> <th>San Juan</th> <th>Total</th> <th>Notes</th>	Center Center	SAFR & Administration	East Campus	Quarry	Lifepark	West Campus	Health	Lignite	Albion	San Juan	Total	Notes
Stock Farm Childcare Facility	33,560										33,560	ASA Approved 9/7/19. Does not need building permit approval (WSP 2019/20).
Chemistry Admin Building	1,632										1,632	
GUP Building Area Distribution at the end of FY 20 (allocation)	1,389,337	375,796	(7,167)	140,000	20,000	17,341	4,732	89,961	0	0	2,035,000	
Building Permits Approved in FY 2020	14,642	0	0	0	0	0	0	0	0	0	14,642	
Cumulative Total Building Permits	1,403,979	375,796	(7,167)	140,000	20,000	17,341	4,732	89,961	0	0	2,062,642	
Future Balance	188,333	6,518	2,897	12,880	20,000	0	1,997	0	0	0	188,635	
Building Permits approved in FY 21												
Development Items <th>Center Center</th> <th>SAFR & Administration</th> <th>East Campus</th> <th>Quarry</th> <th>Lifepark</th> <th>West Campus</th> <th>Health</th> <th>Lignite</th> <th>Albion</th> <th>San Juan</th> <th>Total</th> <th>Notes</th>	Center Center	SAFR & Administration	East Campus	Quarry	Lifepark	West Campus	Health	Lignite	Albion	San Juan	Total	Notes
1215 Welch-modular demolition	(18,945)										(18,945)	Demo permit approved
Male Chem Demolition	(78,673)										(78,673)	Demo permit approved
Female building improvement project	79										79	
GUP Building Area Distribution at the end of FY 21 (allocation)	1,389,337	375,796	(7,167)	140,000	20,000	17,341	4,732	89,961	0	0	2,035,000	
Building Permits Approved in FY 2021	(99,221)	0	0	0	0	0	0	0	0	0	(99,221)	
Cumulative Total Building Permits	1,290,116	375,796	(7,167)	140,000	20,000	17,341	4,732	89,961	0	0	1,935,779	
Future Balance	245,647	6,518	2,897	12,880	20,000	0	1,997	0	0	0	248,944	
Building Permits approved in FY 22												
Development Items <th>Center Center</th> <th>SAFR & Administration</th> <th>East Campus</th> <th>Quarry</th> <th>Lifepark</th> <th>West Campus</th> <th>Health</th> <th>Lignite</th> <th>Albion</th> <th>San Juan</th> <th>Total</th> <th>Notes</th>	Center Center	SAFR & Administration	East Campus	Quarry	Lifepark	West Campus	Health	Lignite	Albion	San Juan	Total	Notes
Working Trailer (09-4211 (Police Compound Demolition)			(226)								(226)	
Operations Trailer (09-4227 (Police Compound Demolition)			(640)								(640)	
Restroom Trailer (09-4231 (Police Compound Demolition)			(440)								(440)	
Events/Officing Building (09-4109-420 (Police Compound Demolition)			(2,700)								(2,700)	
Maintenance Building (09-4109-430 (Police Compound Demolition)			(1,750)								(1,750)	
Restroom Building (Demolition)	(20,493)										(20,493)	
Restroom Restroom Building Demolition - Gabe's Restroom			(11,541)								(11,541)	
Restroom Restroom Building Demolition - El Comino Women's Restroom			(11,093)								(11,093)	
Restroom Restroom Building Demolition - El Comino Men's Restroom			(999)								(999)	
Restroom Gate Restroom Demolition - Gate 3 Men's Restroom			(454)								(454)	
Restroom Gate Restroom Demolition - Gate 7 Men's Restroom			(429)								(429)	
Restroom Gate Restroom Demolition - Gate 9 Women's Restroom			(556)								(556)	
Restroom Gate Restroom Demolition - Gate 11 Men's Restroom			(

“GUP Checklist” for Projects Proposed Under Stanford’s 2000 General Use Permit

Project Description / Tracking Information

Date of Data Sheet submittal: _____
 Status of Data (check): PRELIMINARY (not yet constructed) or AS-BUILT

Project Manager Name: Bijendra Sewak Email: bsewak@stanford.edu
 Phone: 650-725-0262 Address: 560 Fremont Road
 City: Stanford State: CA Zip: 94305

Project name: 1215 Welch Road Research Building
 Brief project description (including schedule requirements):
 Construction of a new Biomedical Research Building, with 3.5 stories above grade and 1 basement level. Principal functions and spaces in this building will include research laboratories, classrooms, offices, and a public cafe. The project also proposes demolition of the existing Hagley building after staff, support materials, and equipment have been relocated to the new building. Project scope includes site grading, installation of utilities, removal of trees and associated site improvements.

County File Number: _____
 Assessor Parcel Number: 142-015-045
 Address of Project: 1215 Welch Road
 City: Stanford State: CA Zip: 94305

Stanford Quad and Building Number: 07-560
 Development District: Campus Center
 Watershed: SAN FRANCISCO CREEK or MATADERO CREEK
 Land Use Designation: Academic Campus Zoning Designation: A1
 Construction Date of existing building (year): NA Source: _____

County Approval Information:
 Type of Approval: ASA Date of Approval: _____
 Type of Project (academic, academic support, residential, other): Academic

Number of net housing units (if applicable):

	ASA Application	Building Permit	Project Completion
Units constructed (faculty/staff)	N/A		
Beds constructed (student)	N/A		
Existing units / beds demolished	N/A		
Net change in units/beds	N/A		

Revised: April 2016 1

Amount of building gross square footage (if applicable):

	ASA Application	Building Permit Total*	Project Completion
New construction (gsf) GSF GUP	184,435	TBD	TBD
Demolition of existing structure (gsf) (attach demo permit when received)	(11,740)	TBD	TBD
Net change in gsf GSF GUP	172,695	TBD	TBD

See GUP Tracking Sheet on drawing ASA-G0.03 and the GUP redistribution letter for details

A.2.c Is the project included in the 50,000 gsf of temporary surge trailers?
 YES NO
 If yes, then square footage does not count toward 2000 GUP square footage.

A.3.a Is the project included in the 40,000 gsf of new child care or community centers?
 YES NO
 If yes, then square footage does not count toward 2000 GUP square footage.

* Note: If there are multiple building permits or demolition permits, provide building permit numbers and associated square footage here: 1215 Building Permit #TBD - 184,435 GUP et. Hagley Demo Permit #TBD - 11,740 GUP et.

Number of net new parking spaces (if applicable):

	ASA Application	Building Permit	Project Completion
New parking spaces	0	0	0
Removal of existing spaces	55		
Net change in parking spaces	-55		

H.1 Is this parking located in the “Campus Residential - Low Density” or “Campus Residential - Medium Density” areas and is it intended to serve faculty/staff housing?
 YES NO

Net change in impervious surface (sq. ft.) with proposed project:

	ASA Application	Building Permit	Project Completion
Existing impervious surface on project site (sf)	62,358		
Post-project impervious surface (sf)	94,846		
Net change in impervious surface	32,488		

Note: See drawing ASA-CS.00
 Impervious surface calculations performed by: BKJ Steven Reynolds
 * Note: must be a California certified architect or civil engineer

Revised: April 2016 2

Summary of C.3 regulation approach (couple of sentences):

The total post-project impervious area is greater than the pre-project impervious area (by an increase of 32,488 square feet). The project is located in an area on HM applicability (Green area) on the HM applicability map. Therefore, the project must implement hydromodification requirements. The west campus stormwater capture facility (county file No. 10689-18C3) has been designed to provide hydromodification for all projects in the San Francisco creek. The project uses 32,488 square feet of hydromodification capacity from the west campus stormwater treatment facility. Source controls and site design measures will be implemented to protect nearby water quality. These measures include beneficial landscaping, and storm drain labeling.

Removal / relocation of trees greater than 12” dbh:

	ASA Application		Building Permit		Project Completion	
Number of trees removed	Oaks: 3	Non-oaks:	Oaks:	Non-oaks:	Oaks:	Non-oaks:
Number of trees relocated	Oaks: 0	Non-oaks:	Oaks:	Non-oaks:	Oaks:	Non-oaks:
Number of replacement trees planted	Oaks: 9	Non-oaks:	Oaks:	Non-oaks:	Oaks:	Non-oaks:

Palo Alto Unified School District Fee (if not required for project, state reason):
 Date: before issuance of building permit _____
 Amount: TBD

Affordable Housing in-lieu fee payment (if not required for project, state reason):
 Rate: TBD _____
 Total Payment: TBD _____
 Date submitted: before issuance of TCO _____

Summary of SWPPP compliance (completed at end of project):

Water conservation measures employed (completed at end of project):

Revised: April 2016 3

List of noise complaints (Completed at end of project):

Results of any required special studies (e.g. special status plants, bird nest surveys. Completed at end of project):

Revised: April 2016 4

Project Specific Studies and Requirements

F.6.a How will the affordable housing requirement for academic development be met?
 Check one:
 1 affordable housing unit for each 11,773 square feet of academic development, OR
 An appropriate in-lieu cash payment. If the fee is chosen, the County will require the fee through the ASA Conditions of Approval and calculate the amount required at the time of Building Permit. It will be paid by Stanford prior to Certificate of Occupancy, OR
 Not Applicable

F.8 Has the following housing linkage requirement for academic projects been met?

Academic Development (gsf)	# housing units through framing inspection
500,000	505
1,000,000	1,210
1,500,000	1,815
2,035,000	2,420

YES NO N/A

G.11 Is the proposed project one of the following: Escondido Village housing in excess of 100 units, West Campus or Lagunita district faculty/staff housing, Performing Arts Center, expansion/replacement of basketball arena, Stanford Avenue faculty/staff housing, a parking lot or structure with a net increase of 400 or more spaces, or a project of similar size and scale?
 YES NO
 If yes, Stanford must submit a project-specific traffic study.

I.1 Is the project located on a designated San Juan faculty/staff housing project site?
 YES NO
 If yes, the project must be consistent with Stanford’s Program for Replacement of Recreational Facilities Improvements in the San Juan District.

K.1 Is the proposed project located in riparian, disturbed riparian, oak woodland, annual grassland-oak woodland, or modified oak woodland areas?
 YES NO
 If yes, the County will retain an independent qualified biologist to conduct focused surveys for special-status plants (surveys for early-blooming plants are in March/April and late-blooming plants are in June to October). If such plants are identified, Stanford will comply with the associated conditions of approval.

K.2 Does the proposed project require pre-construction surveys for breeding raptors and migratory birds?
 YES NO
 Pre-construction surveys of trees within 500 feet of the project site may be required if construction activities begin or become more intensive between February 1 and August 31. Construction is expected to begin: January 2026

K.3 Is the proposed project located in an oak woodland area?
 YES NO
 If yes, Stanford must create or restore oak woodland habitat in the ratio of at least 1.5 to 1.

Revised: April 2016 5

K.4 Does the proposed project result in the removal of trees greater than 12” dbh?
 YES NO
 If yes, any “protected” trees must be replaced according to the ratios required by this condition (3 to 1 for oaks and 1 to 1 for non-oaks). Please check the appropriate box regarding replacement ratios:
 The removed trees will not be replaced according to the ratios in this condition.
 The removed trees will not be replaced at the ratios because they meet the exemptions in the tree ordinance (e.g. dead or dying).
 The removed trees will not be replaced at the ratios because they are not “protected” (i.e., they were not shown in a prior ASA landscape plan).

K.5 Is the proposed project located within areas defined as jurisdictional wetlands on the “Wetlands/Waters of the U.S. Jurisdictional Delineation map” dated June 24, 2002?
 YES NO
 If yes, Stanford will comply with the associated conditions of approval. (Note: Proposed projects south of JSB could require analysis for potential wetlands).

L.2 Is the proposed building located along Stanford Avenue?
 YES NO
 If yes, Stanford must submit a landscape plan and provide for a minimum 25-foot setback and maximum 30-foot height.

L.3 Does the proposed project have exterior light sources?
 YES NO
 If yes, Stanford must submit lighting details with the building permit that will show that state-of-the-art illuminaries will be used where necessary, with high-beam efficiency, sharp cut-off, and glare and spill control. Upward glow will not be allowed in residential or academic uses.
 See electrical sheets: ASA-EL.012, ASA-EL.102, ASA-EL.103E

L.4 Is the proposed project located in the Lathrop district?
 YES NO
 If yes, the project must be restricted to the areas shown in Figure 5 of the Conditions of Approval.

M.1 Does the proposed building project include hazardous materials that are regulated by the California Accidental Release Prevention (CalARP) Law requirements?
 YES NO
 If yes, the application must include the projected quantities and types by hazard category as specified in the County Fire Code (i.e., flammable liquids, corrosives, etc.) for those materials found on CalARP’s list.

N.1 Is the project located in the Stock Farm Monocline?
 YES NO
 If yes, Stanford must have an Engineering Geologist review project plans and submit comments to the County Geologist, prior to issuance of a building permit.

N.2 Does the proposed project result in an increase in impervious surface beyond the amount mitigated by detention basins constructed to provide mitigation?
 YES NO

Revised: April 2016 6

N.4 Is the proposed project located in the Groundwater Recharge Area (the Unconfined Zone on the “Approximate Boundary of Unconfined Zone near Stanford Campus” map provided by SCVWD, July 2001)?
 YES NO
 Stanford is in the process of preparing a campus-wide groundwater recharge plan to mitigate lost recharge from all projects in the Unconfined Zone. In the meantime, Stanford has initiated an interim plan for such projects: additional creek-diverted water conveyed to Lagunita for percolation.

N.8 Are any wells located within the project site?
 YES NO
 If yes, Stanford shall take steps to verify that the well was properly abandoned. If Stanford cannot confirm the well was properly abandoned, Stanford will take steps to locate and abandon the well.

N.10 Is the proposed project located in the Groundwater Recharge Area and does the proposed project result in a new land use or practice (e.g., storage of chemicals in single wall tanks, application of pesticides that could be transported down to the groundwater supply) that could affect groundwater quality or supply?
 YES NO
 If yes, these new land uses or practices must be evaluated to determine whether they pose a threat to groundwater quality or supply.

O.1 Does the proposed project result in the demolition of any structure more than 50 years old?
 YES NO
 If yes, Stanford must submit an assessment of the structure regarding its eligibility for listing, if the structure is not already listed in the County Inventory.
 See Hagley DPR submitted with the ASA package for details.

O.2 Does the proposed project result in the remodeling or alteration of the exterior of a structure that is over 50 years old?
 Yes, however, no assessment is required because the project involves basic maintenance, repair, or replacement in kind. Stanford has marked project plans.
 Yes, however, no assessment is required because the project involves exterior remodeling or alteration that will comply with Secretary of Interior (SOI) standards, if such standards were to apply. Stanford has included a letter in the application documenting compliance with the SOI standards.
 Yes, Stanford has included a DPR (Primary Record) form in the application.
 No, the existing building is less than 50 years old, or there is no existing building.

O.2 Does the proposed project result in remodeling or alteration of the interior of primary public spaces in the Cantor Arts Center / Stanford Museum, Memorial Church, Art Gallery, Hoover Tower, Cobb Track and Angell Field, Memorial Hall, Dinkelspiel Hall, Frost Amphitheater, or the Burnham Pavilion / Ford Center?
 YES NO
 If yes, County may review interiors for compliance with Secretary of Interior standards.

O.2 Could the new project result in a potential physical effect by being located within 75 feet of a structure that has been listed on, or was previously found to be eligible for listing, on the California Register or National Register?
 YES NO
 If yes, the application shall include a letter confirming the new building construction is compatible with the historic structure.

Revised: April 2016 7

O.3 Is the proposed project located in a mapped historic or prehistoric archaeological site?
 YES NO
 If yes, the County will conduct further site-specific analysis.
_____ Initials by Laura Jones, Director of Heritage Services and University Archaeologist, confirms that the project is not in a mapped historic or prehistoric archaeological site.

P.6 Does the application include information of existing capacity and expected waste-water generation for the affected portion of the wastewater collection system?
 YES NO
 See application will serve letters.

Q.3 Does the proposed project contain more than 25,000 square feet of laboratory space and 50 fume hoods?
 YES NO
 If yes, Stanford must provide a risk screening analysis and obtain a permit from BAAQMD.

I certify that these data are accurate for PRELIMINARY or AS-BUILT plans.

Form completed by: Jeanne Stainbrook/ZGF Architects
 Reviewed by Stanford LUEP Office Staff: Ramya Subramanian
 Digitally signed 11/22/24 12 pm

Revised: April 2016 8



ZIMMER GUNSUL FRASCA ARCHITECTS LLP
 DENVER
 LOS ANGELES
 NEW YORK
 PORTLAND
 SEATTLE
 WASHINGTON, DC
 VANCOUVER, BC
 1223 SW Washington Street
 Suite 200
 Portland, OR 97205
 503.224.3860
 www.zgf.com

ZGF Project Number P26717.wrs
 Consultant



1215 Welch Road

Original Issue
 ASA SUBMITTAL 12.06.2024

Revisions

Key Plan and Orientation

Sheet Title

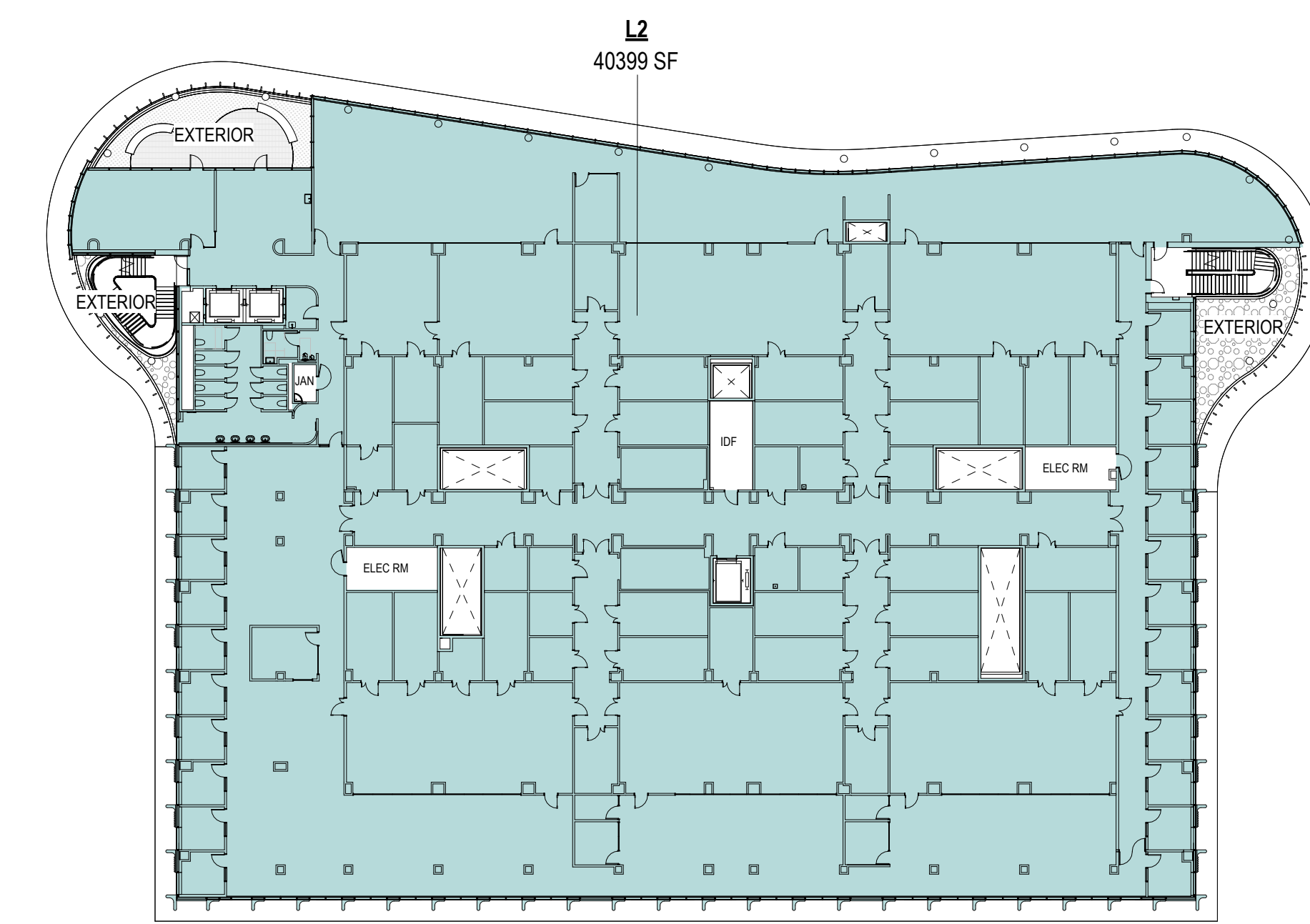
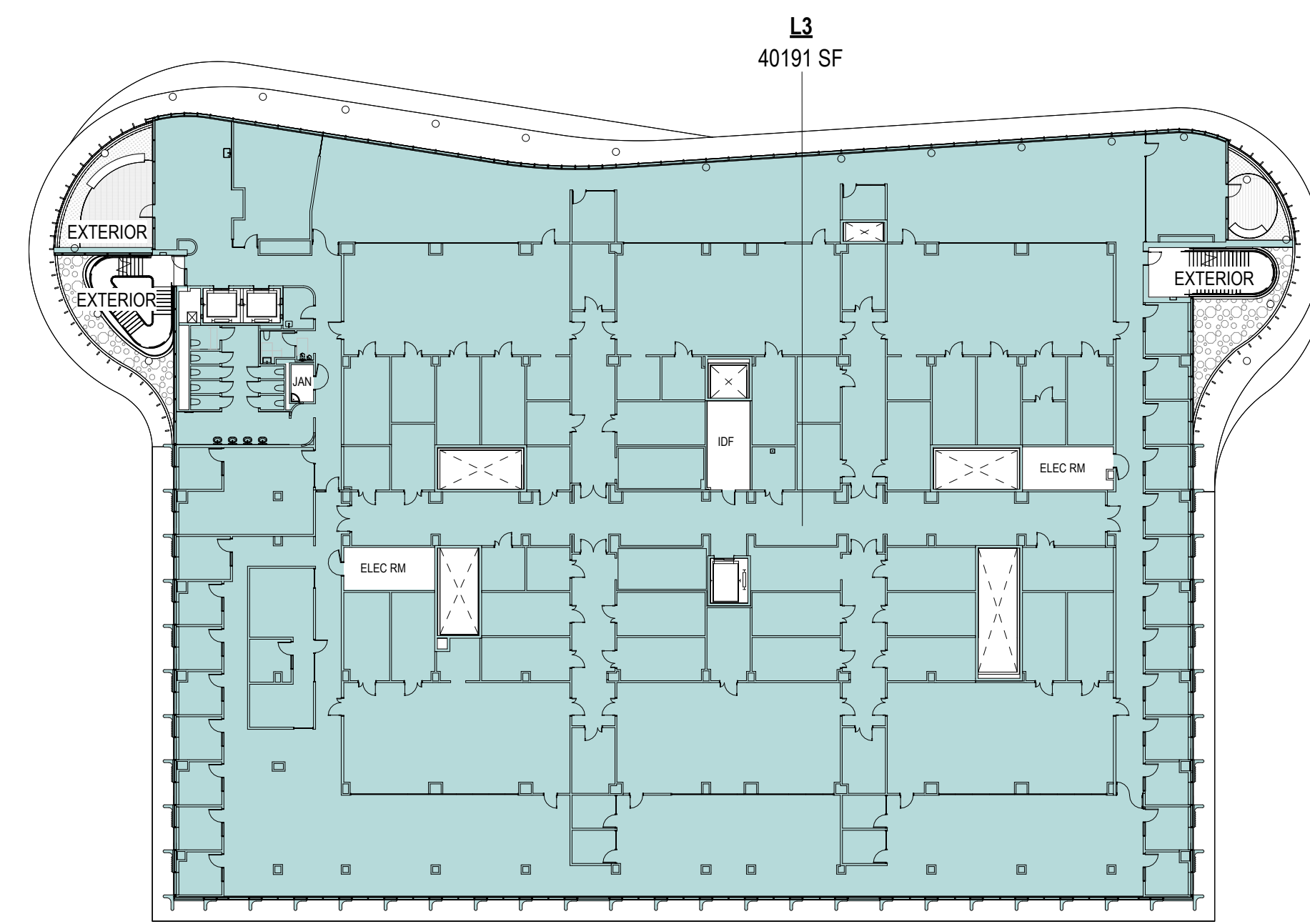
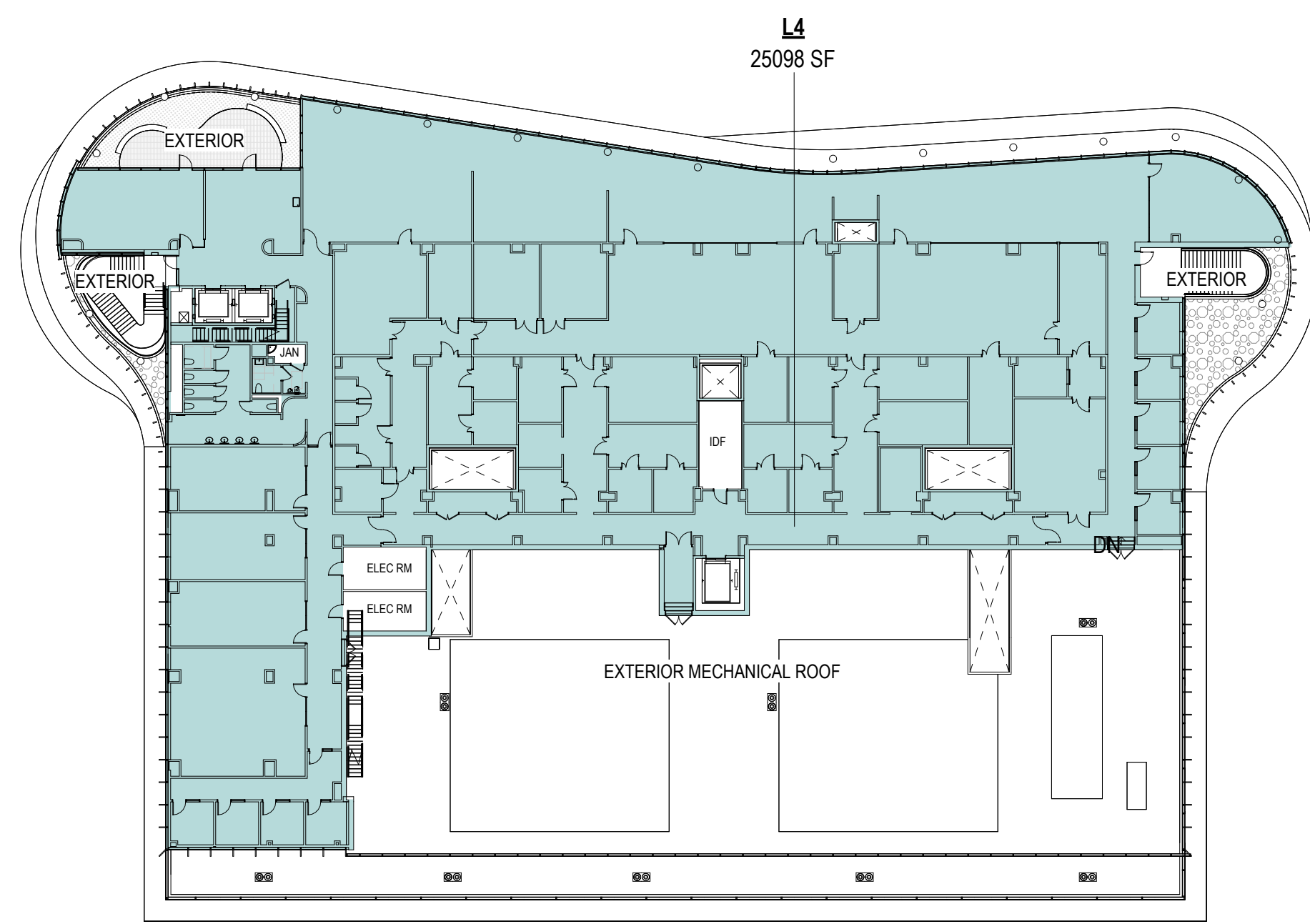
GUP CHECKLIST

Sheet Number

ASA-G0.03A

Current Issue
 ASA SUBMITTAL

Current Issue Date
 12.06.2024



1 LEVEL 4 - GUP
ASA-G0.04 1/32" = 1'-0"

GUP AREA	
LEVEL	AREA
LEVEL 4	25098 SF
LEVEL 3	40191 SF
LEVEL 2	40399 SF
LEVEL 1	30640 SF
LEVEL 1	3346 SF
LEVEL 0	44760 SF
	184435 SF

SEE GUP ANALYSIS ON SHEET ASA-G0.03 FOR THIS LINE ITEM IN THE GUP TRACKING SHEET

Methodology for calculating building square footage areas per the Stanford 2000 General Use Permit (GUP):

California Government Code Section 65995-65998:

- Calculate outside wall to outside wall dimensions.
- Inclusive of: interior rooms and structural elements, stairwells on each floor, elevator shaft on ground floor only, basements, attic space if counted as a story, and mezzanines.
- Exclusive of: covered balconies and patios, uncovered balconies and patios, open floor spaces to below, covered arcades, light wells, mechanical shafts, tunnels, elevator shafts on all floors except ground floor (ground floor is inclusive), penthouses, and mechanical / utility room (includes AV, steam, equipment, electrical, IT, and janitorial mop sink rooms).

TUNNEL INTERPRETATION

County of Santa Clara
Department of Planning and Development
County Government Center, East Wing
70 West Hedding Street, 7th Floor
San Jose, California 95110

Administration: (408) 299-2748
Development Services: (408) 299-3760
Files Manager: (408) 299-3760
Planning: (408) 299-3770
Fax: (408) 299-6757 (408) 279-8357 (408) 299-6766 (408) 299-9196



To: Catherine Patter, Assistant Planning Director, Stanford
From: Marina Rush, Planner, County of Santa Clara
Date: February 24, 2010
Subject: Supplement to County Correspondence, March 3, 2009, Staff Interpretation Regarding Definition of Square Feet, 2000 GUP

This memorandum serves as a Supplement to the Staff Interpretation, dated March 3, 2009, regarding calculating square footage in order to identify the specific Government Code section and define the terms contained therein.

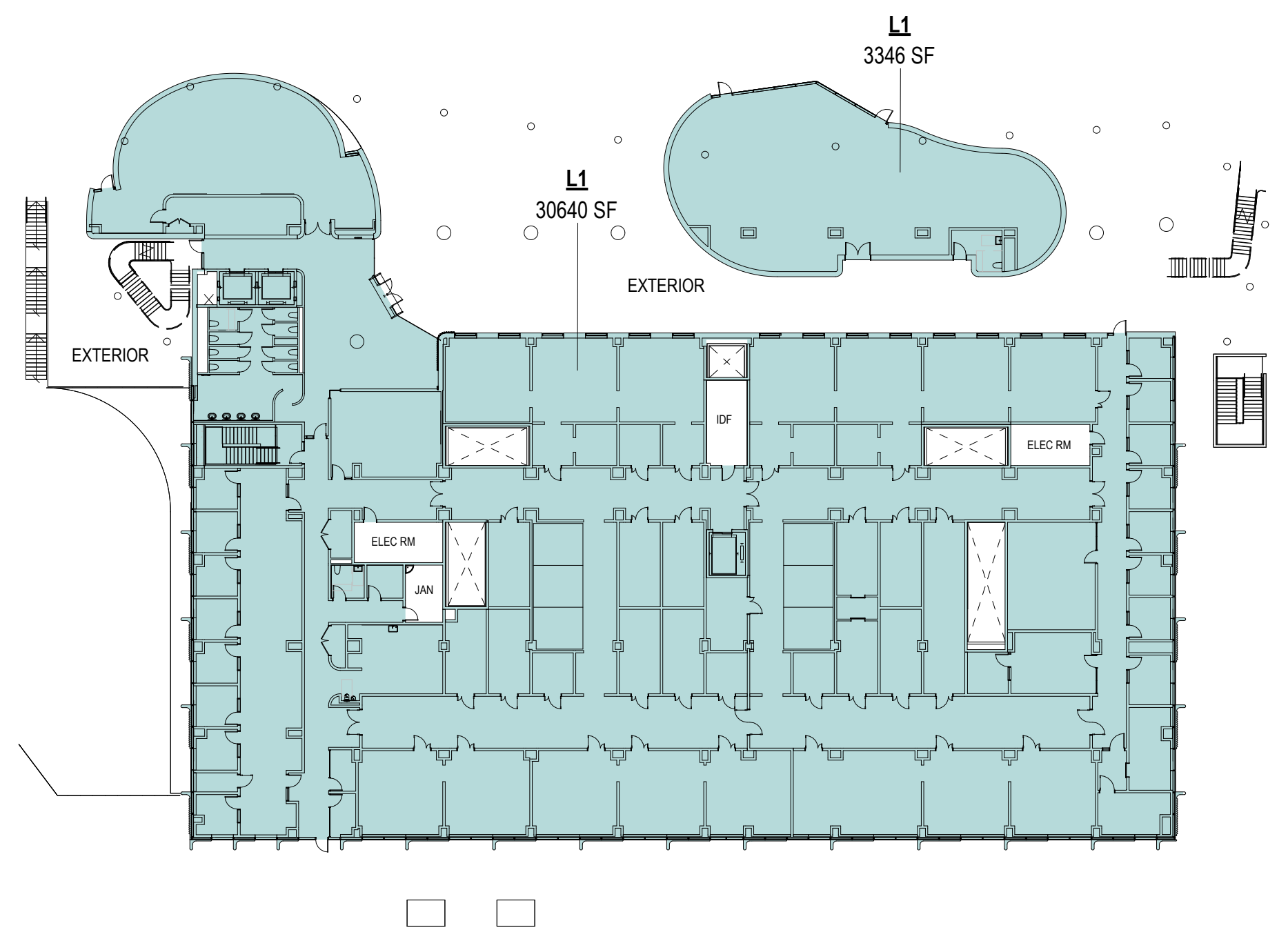
Government Code 65995(b)(2):
In the case of any commercial or industrial construction, thirty-one cents (30.31) per square foot of chargeable covered and enclosed space. "Chargeable covered and enclosed space" for this purpose, means the covered and enclosed space determined to be within the perimeter of a commercial or industrial structure, excluding any storage areas incidental to the principal use of the construction, garage, parking structure, elevated walkway, or utility or disposal area. The determination of the chargeable covered and enclosed space within the perimeter of a commercial or industrial structure shall be made by the building department of the city or county issuing the building permit, in accordance with the building standards of that city or county.

The Government Code 65995(b)(2) defines "Chargeable covered and enclosed space," as the covered and enclosed space determined to be within the perimeter of a commercial or industrial structure. The County of Santa Clara interprets this to mean to the outside wall of the structure. Chargeable and covered enclosed space excludes several types of spaces, and are defined below for purposes of 2000 GUP square footage counting, calculating school fees, and calculating below market rate housing in lieu (BMR) fees.

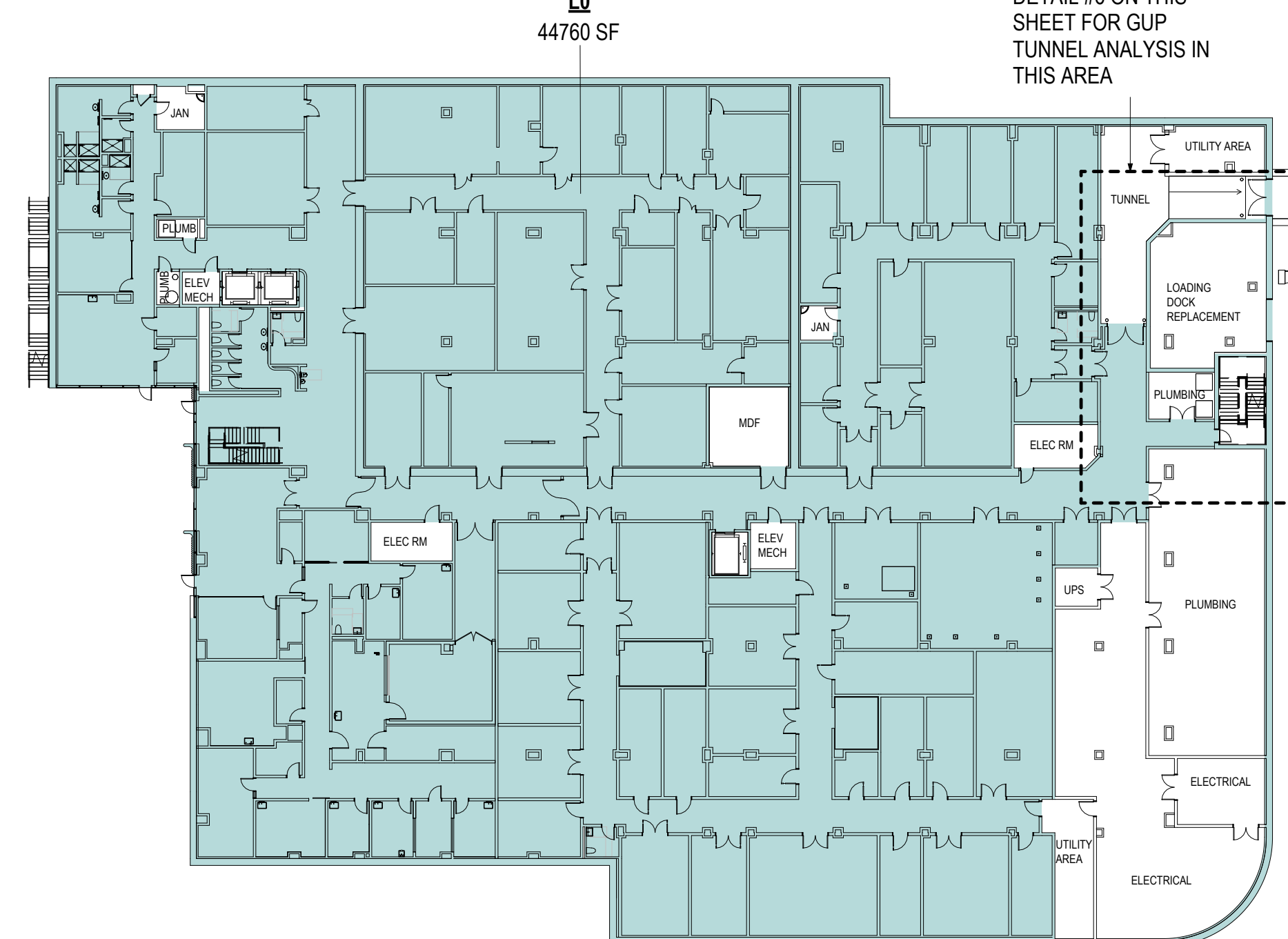
- "any storage areas incidental to the principal use of construction". This does not describe the types of storage areas located in Stanford buildings so storage areas

- are not excluded from chargeable space.
- "garage": Garages associated with faculty and staff housing are excluded.
- "parking structure": aboveground and underground parking structures are excluded from chargeable space.
- "unenclosed walkway": arcades, balconies, exterior walkways are excluded. In addition, tunnels are excluded when they serve as an underground walkway (connection) between buildings. They are included in chargeable space when they are for ingress and egress.
- "utility area": mechanical rooms and shafts are excluded from chargeable space.
- Elevator shafts: are excluded from chargeable space on all except one floor, because that room can only exist on one floor at a time.
- "disposal area": interior disposal areas are excluded from chargeable space.

2 LEVEL 3 - GUP
ASA-G0.04 1/32" = 1'-0"

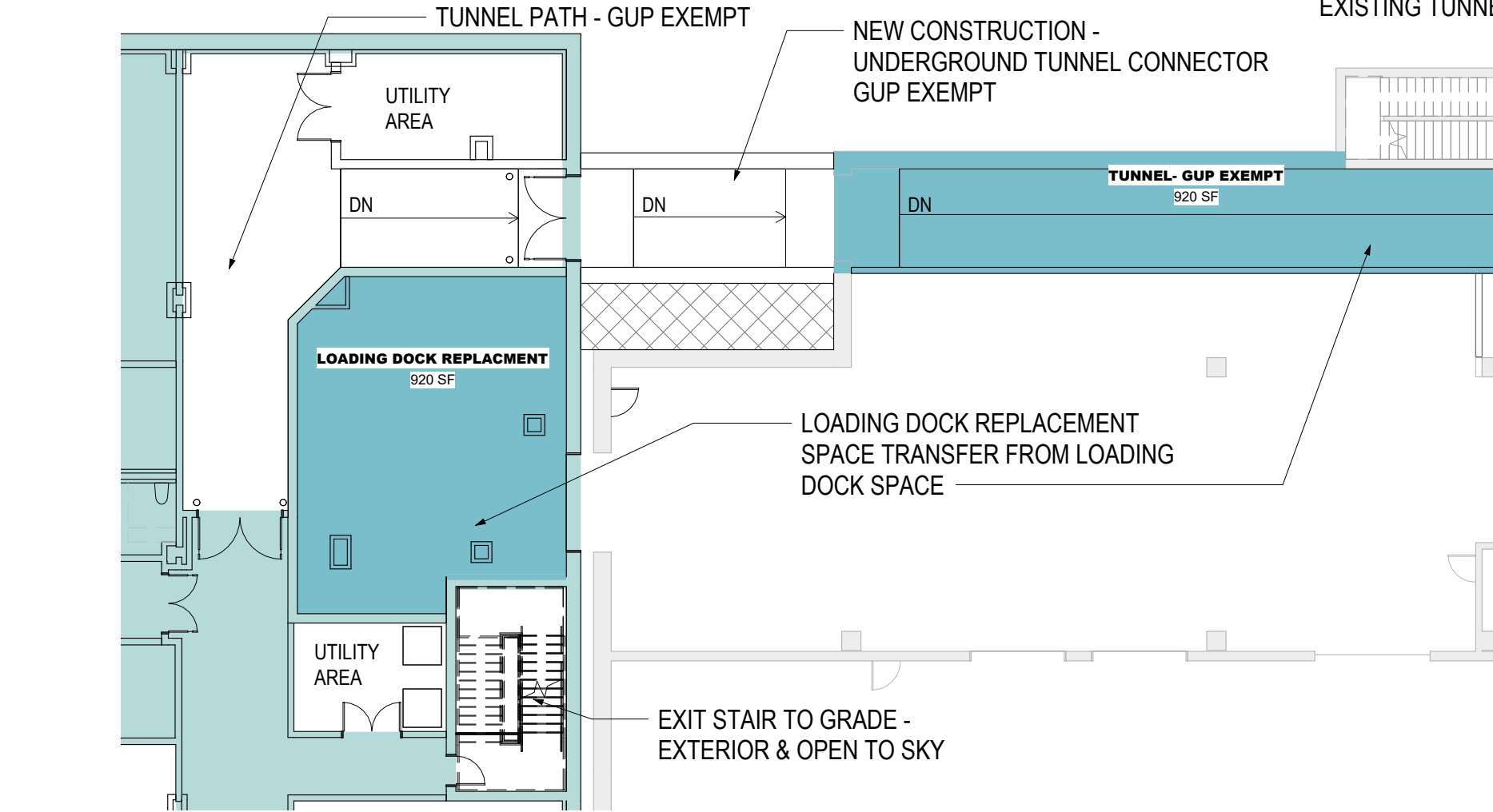


3 LEVEL 2 - GUP
ASA-G0.04 1/32" = 1'-0"

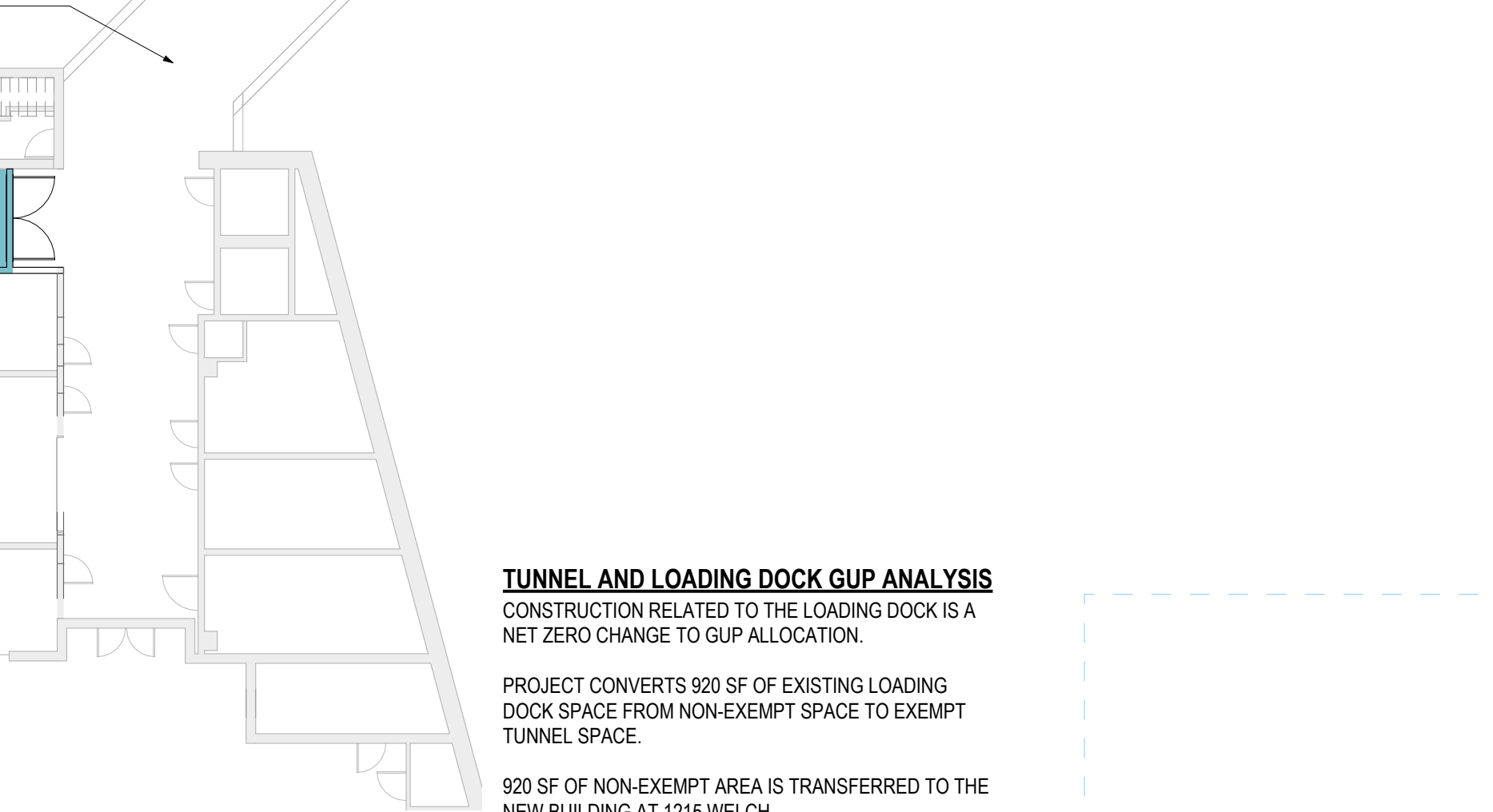


SEE ENLARGED PLAN
DETAIL #6 ON THIS
SHEET FOR GUP
TUNNEL ANALYSIS IN
THIS AREA

4 LEVEL 1 - GUP
ASA-G0.04 1/32" = 1'-0"



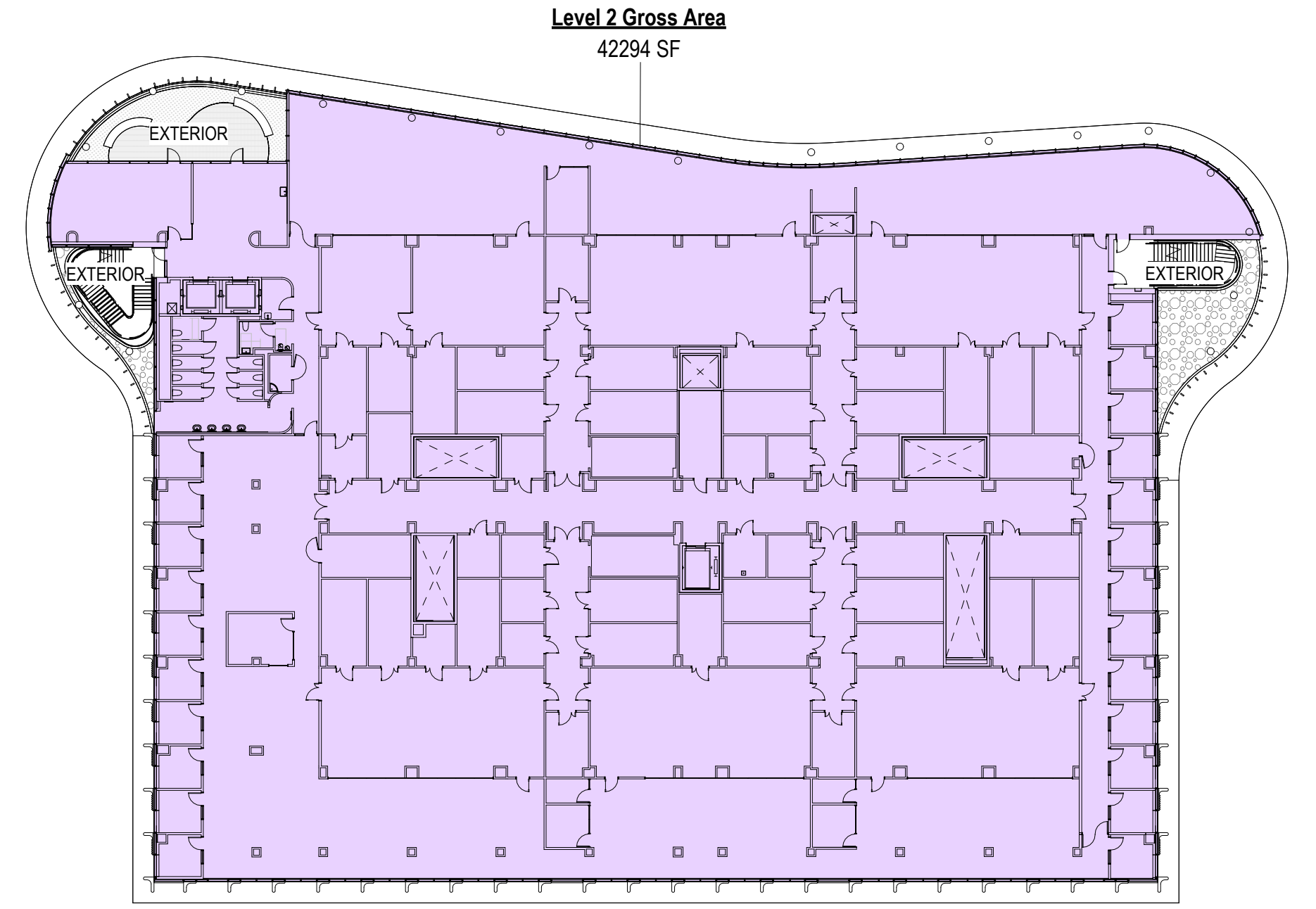
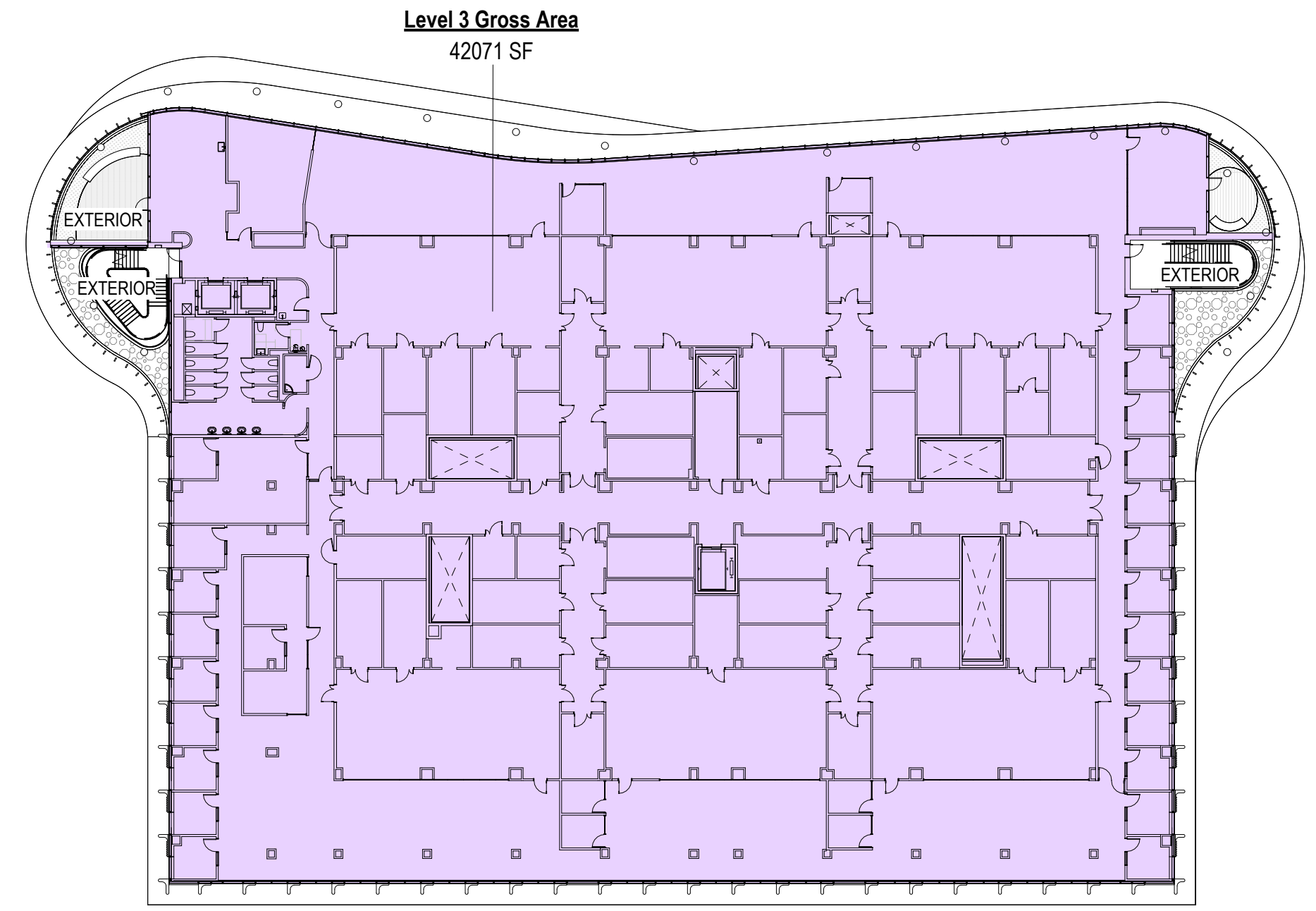
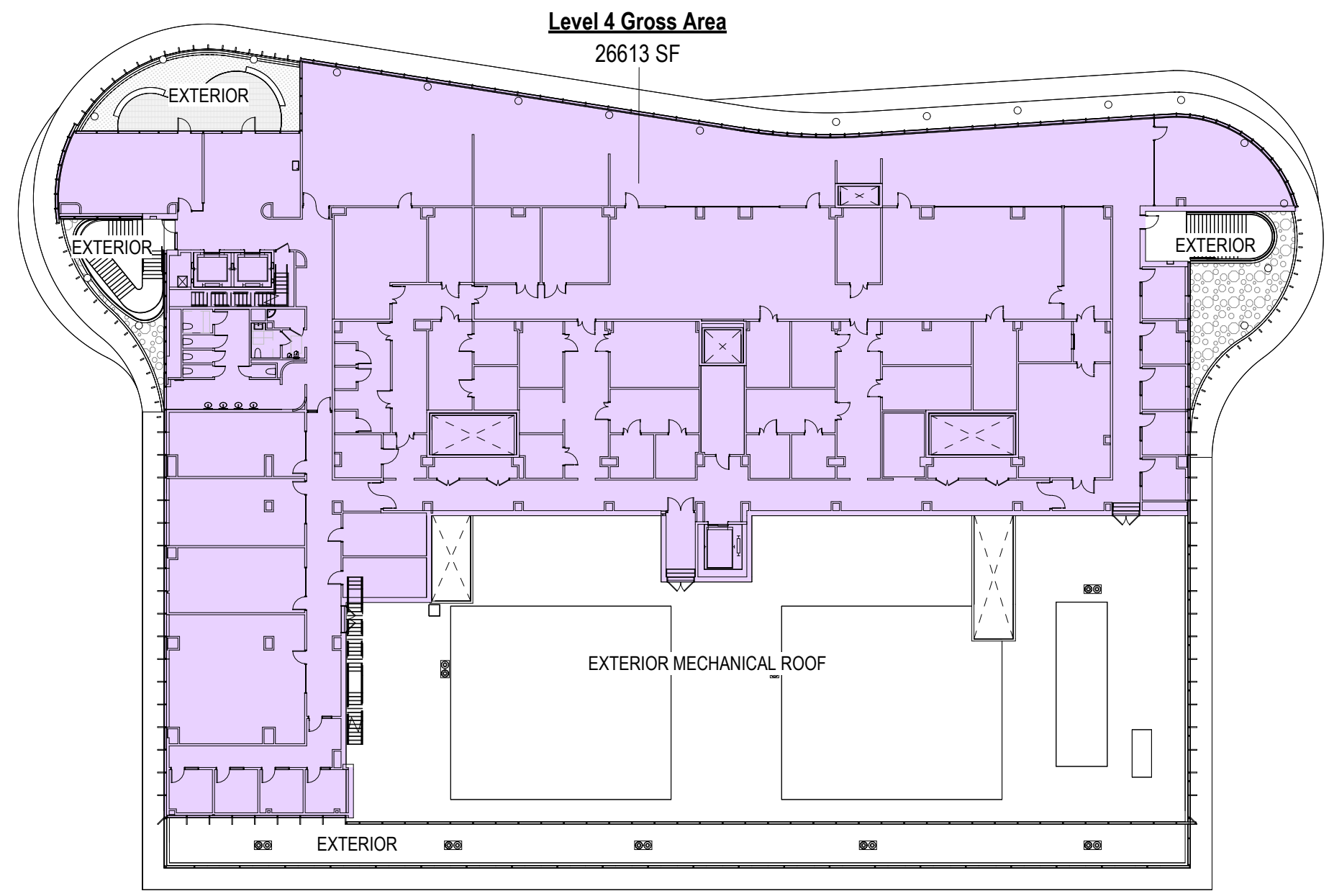
5 LEVEL 0 - GUP
ASA-G0.04 1/32" = 1'-0"



TUNNEL AND LOADING DOCK GUP ANALYSIS
CONSTRUCTION RELATED TO THE LOADING DOCK IS A NET ZERO CHANGE TO GUP ALLOCATION.
PROJECT CONVERTS 920 SF OF EXISTING LOADING DOCK SPACE FROM NON-EXEMPT SPACE TO EXEMPT TUNNEL SPACE.
920 SF OF NON-EXEMPT AREA IS TRANSFERRED TO THE NEW BUILDING AT 1215 WELCH.

6 LEVEL 0 - LOADING DOCK GUP ANALYSIS
ASA-G0.04 1/16" = 1'-0"

Sheet Size: 24 x 36
12/16/2024 3:33:55 PM



1 LEVEL 4 - GROSS AREA
ASA-G0.05 1/32" = 1'-0"

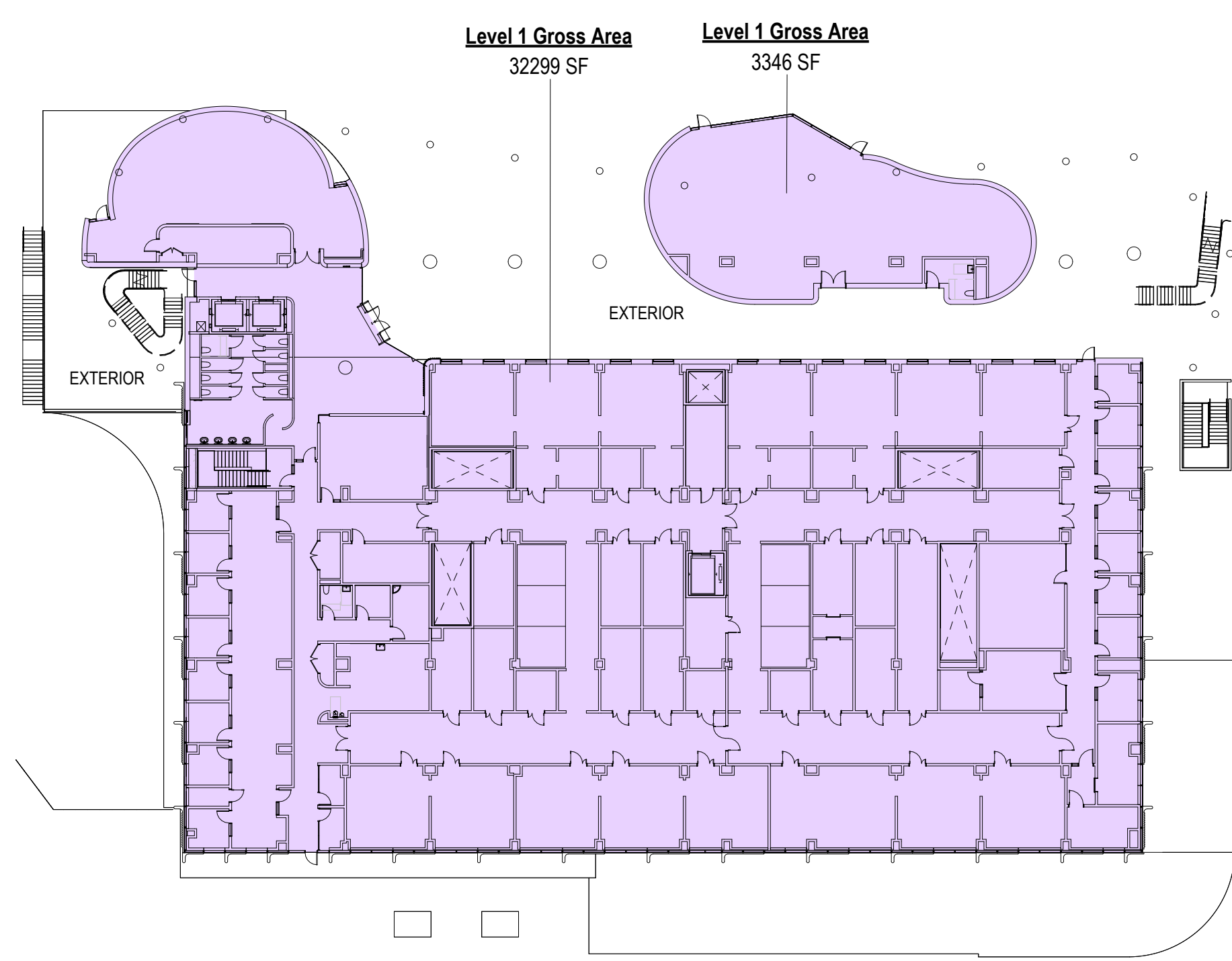
2 LEVEL 3 - GROSS AREA
ASA-G0.05 1/32" = 1'-0"

3 LEVEL 2 - GROSS AREA
ASA-G0.05 1/32" = 1'-0"

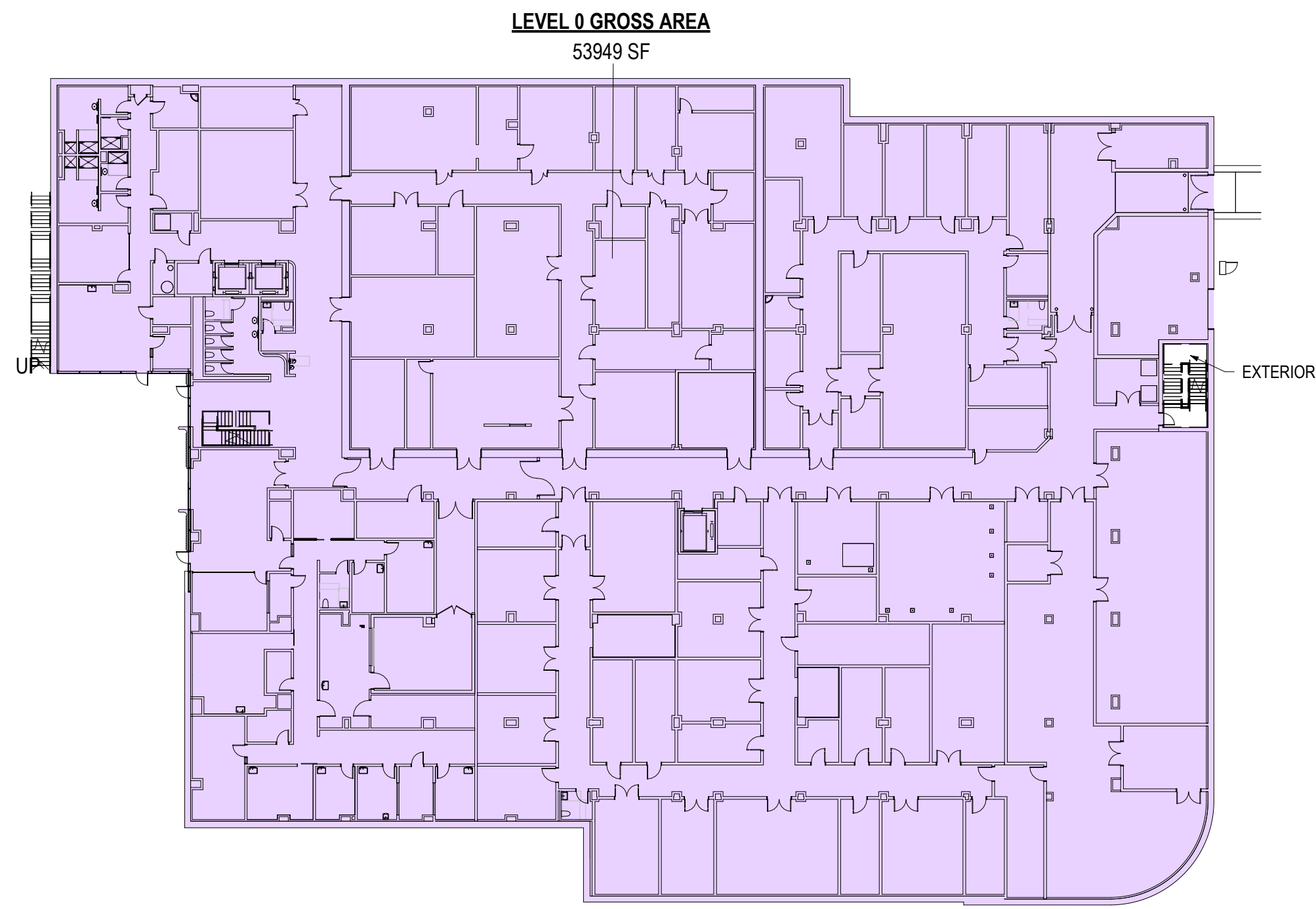
BUILDING GROSS AREA	
LEVEL	AREA
LEVEL 4	26613 SF
LEVEL 3	42071 SF
LEVEL 2	42294 SF
LEVEL 1	32299 SF
LEVEL 1	3346 SF
LEVEL 0	53949 SF
	200572 SF

Methodology for calculating building square footage areas per the Uniform Building Code:
2007 Uniform Building Code, Chapter 5:

- Calculate outside to outside wall dimensions.
- Inclusive of: interior rooms and structural elements, covered balconies and patios, covered arcades, stairwells on each floor, elevator shafts on ground floor only, basements, attic space if counted as a story, storage areas.
- Exclusive of: uncovered balconies and patios, open spaces to below, light wells, mechanical shafts, tunnels, penthouses and mezzanines.



4 LEVEL 1 - GROSS AREA
ASA-G0.05 1/32" = 1'-0"



5 LEVEL 0 - GROSS AREA
ASA-G0.05 1/32" = 1'-0"

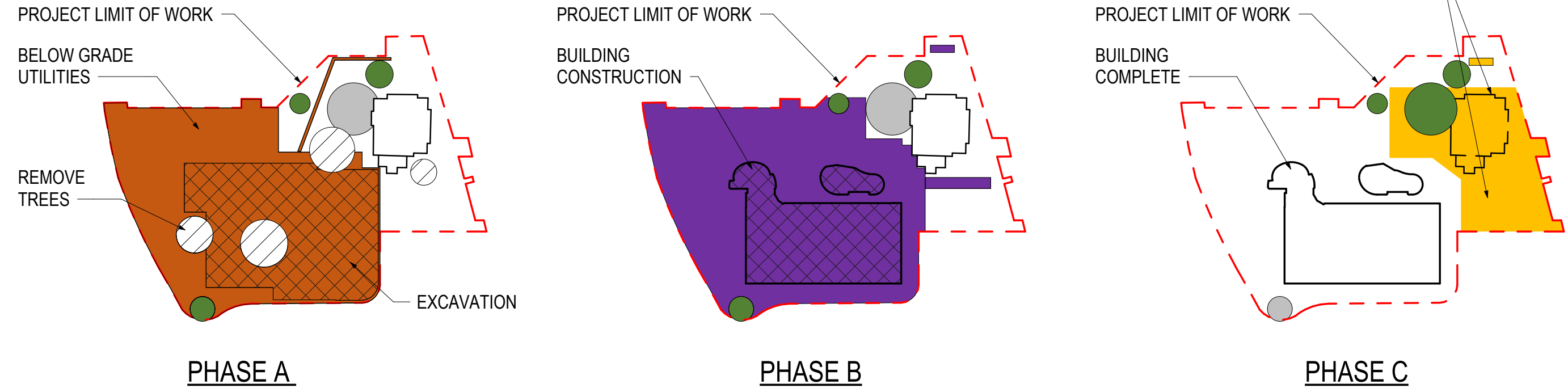
PATH TO PROJECT COMPLETION: SEQUENCING NARRATIVE

- PHASE A**
- TREE REMOVAL PERMIT**
Removal of select trees. Phase A = Removal Phase B = Replacement
 - UTILITY PERMIT #1 – Site Utilities** (no Planning Department review scope)
Site prep grading
No new utilities
 - UTILITY PERMIT #2 - Building Excavation & Shoring** (requires Planning Department review)
Excavate the building lower level. No foundations or footings, just removal to prep for new work.
- * Phase A permits can be submitted once ASA is "deemed complete". Approval allowed 15 days after ASA approval.*

- PHASE B**
- BUILDING PERMIT #3a - Building Construction**
Building, Utility Connections, Foundations, Generator, Landscape (West)
- *Certificate of Occupancy Issued at Permit #3a completion.*
- *Temporary fire apparatus access road turnaround temporary condition in place.*
 - BUILDING PERMIT #3c - Building Construction**
Loading Dock Connection: modifications to the Loading Dock space to create a tunnel connection to the new building.
- *Certificate of Occupancy Issued at Permit #3a completion.*
 - BUILDING PERMIT #4 - Lab Fit-Up** (TENTATIVE - If needed.)
Lab Fit-Up for late researcher assignments.
 - BUILDING PERMIT #5 - Café Fit-Up**
Fit-up of café space to customize for vendor.

- PHASE C**
- BUILDING PERMIT #6 - CCSR Generator**
Replace the CCSR generator and move to new location. Placement reviewed in ASA. Trade Permit independent of building.
** ASA approval required. Execution is not tied to building.*
 - DEMO PERMIT #2 – Hagey Building**
Move occupants out of Hagey Building and demolition building.
** ASA approval required. Demolition execution is not tied to new building. Occupants are moving to the new building.*
 - BUILDING PERMIT #3b - Landscape (East)**
Landscape scope east of building and above loading dock. Completion of Discovery Walk connection.

- PHASE D**
- PROJECT COMPLETE**
Fire apparatus access road complete.
Replacement trees planted.
Discovery Walk extension to Welch Road complete.
Construction fencing and trailers removed.



PATH TO PROJECT COMPLETION: PROJECT SEQUENCE

NOTE: SEE ENLARGED SEQUENCING DIAGRAMS ON SHEET ASA-G0.07

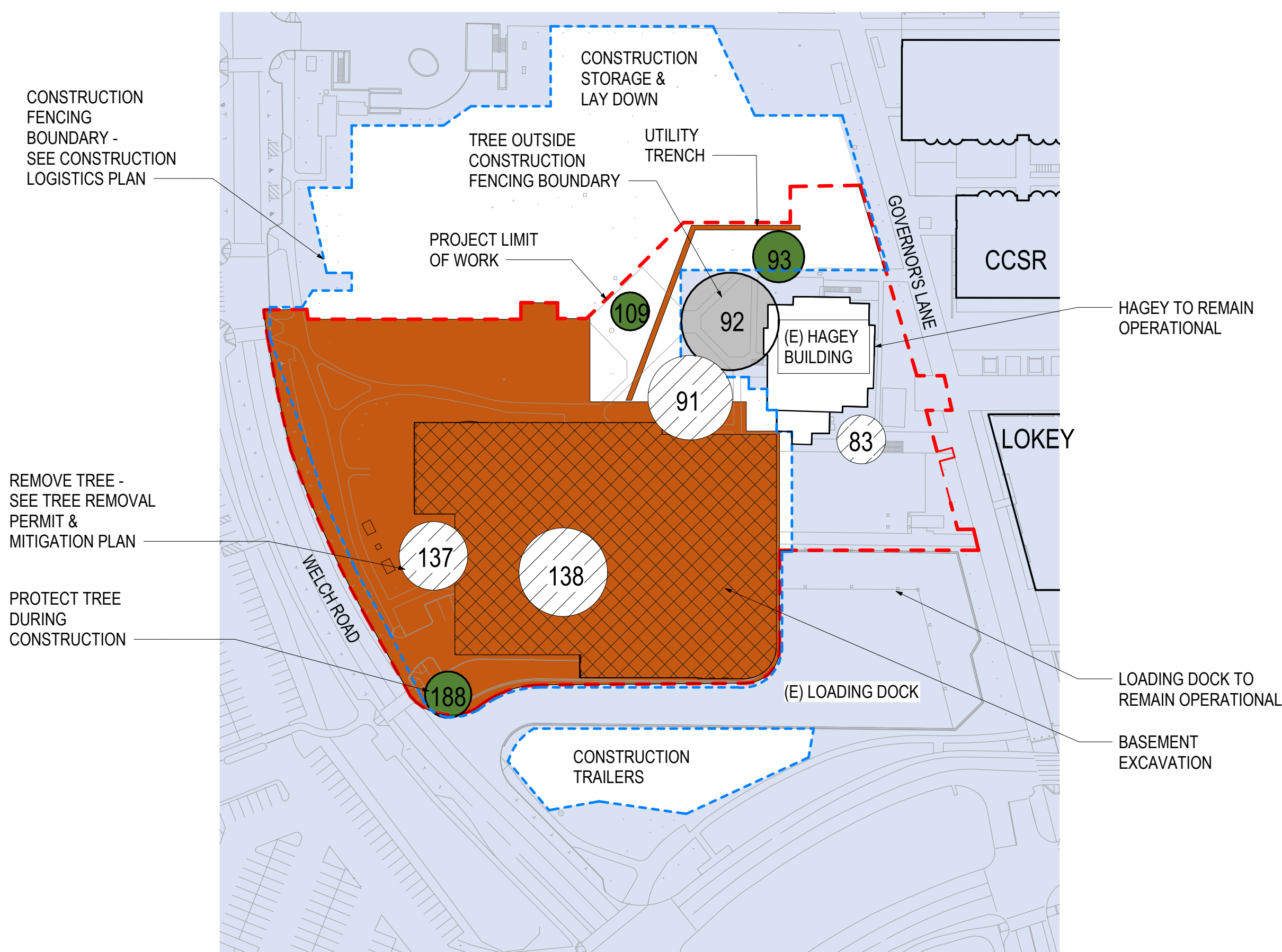
Permit Packages	Entitlements Phase	Construction Phase			
		A	B	C	D
Architectural Site Approval Permit (ASA)	Submit Deemed Complete In Review Approve	Execute Closeout Complete			
Building Permits					
Demo Permit #1	MSOB Building (Issued on Oct 18, 2024)	Execute		Close	
Tree Removal Permit	Phase A = Removal Phase B = Replacement		Submit In Review Approve	Removal Replacement Close	
Permit #1	Site Prep Grading (no Planning Department review scope)		Submit In Review Approve	Execute Close	
Permit #2	Building Excavation and Shoring (requires Planning Department review)		Submit In Review Approve	Execute Close	
Building Permit #3a	Building, Utilities, Foundations, Generator, Landscape (West)		Submit In Review Approve	Execute C of O	Close
Building Permit #3b - Landscape (East)	Landscape-East & Discovery Walk (East)		Submit In Review Approve		Execute Close
Building Permit #3c	Loading Dock Connection		Submit In Review Approve	Execute C of O Close	
Building Permit #4	Lab Fit-Up (TENTATIVE - If needed.)		Submit In Review Approve	Execute C of O Close	
Building Permit #5 - Café Fit-Up	Café Fit-Up		Submit In Review Approve	Execute C of O Close	
Building Permit #6 - CCSR Generator	CCSR Generator		Submit In Review Approve	Trade Permit - Confirm	Execute Close
Demo Permit #2 - Hagey Building	Hagey Building Move Out and Demolition		Submit In Review Approve	Reactivate permit if needed.	Execute Close

Sheet Size: 24 x 36 [0' 11"] 12/26/2024 3:34:04 PM

PATH TO PROJECT COMPLETION: SEQUENCING DIAGRAMS

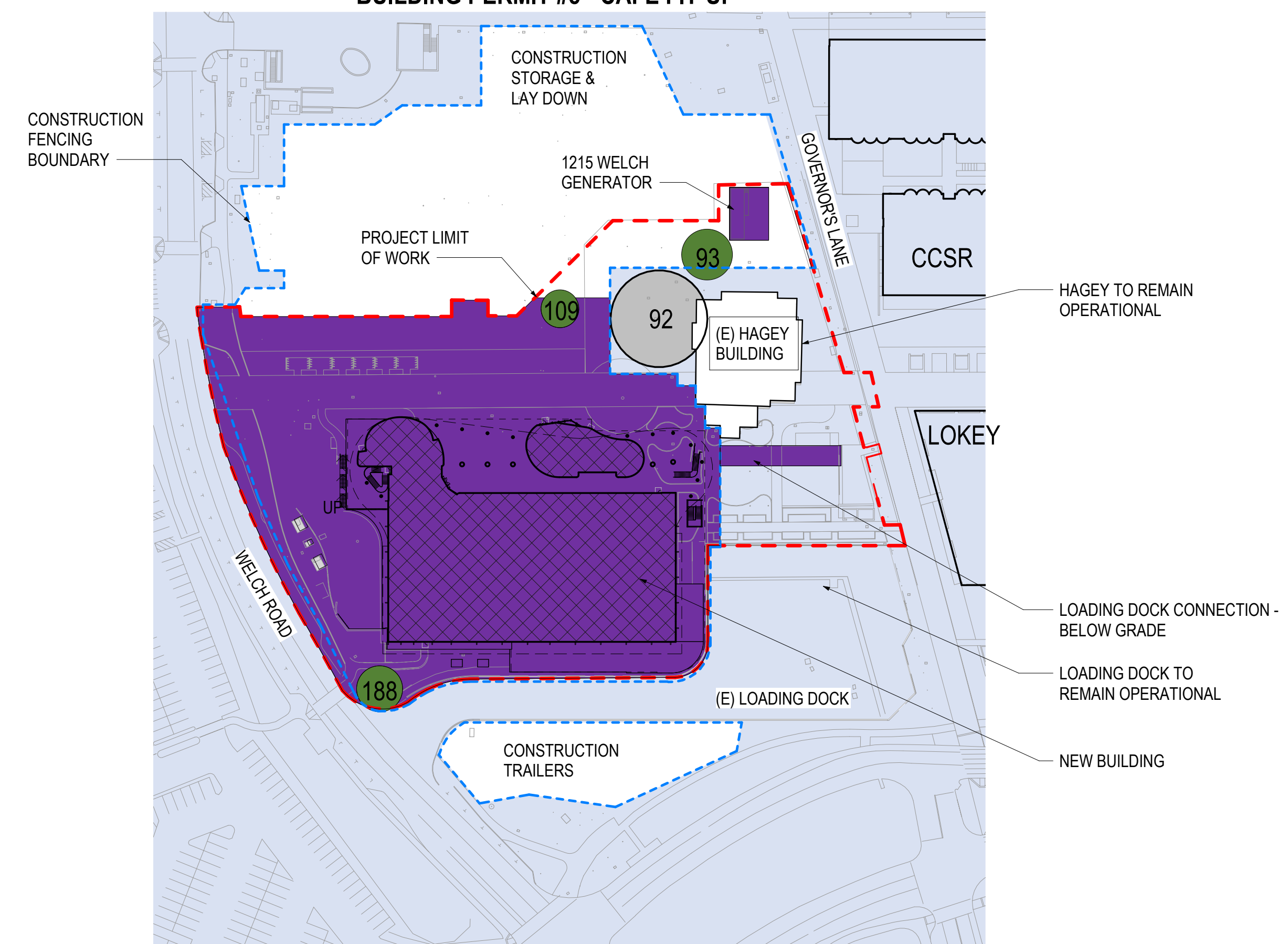
PHASE A

TREE REMOVAL PERMIT
PERMIT #1 - SITE PREP & GRADING
PERMIT #2 - BUILDING EXCAVATION & SHORING



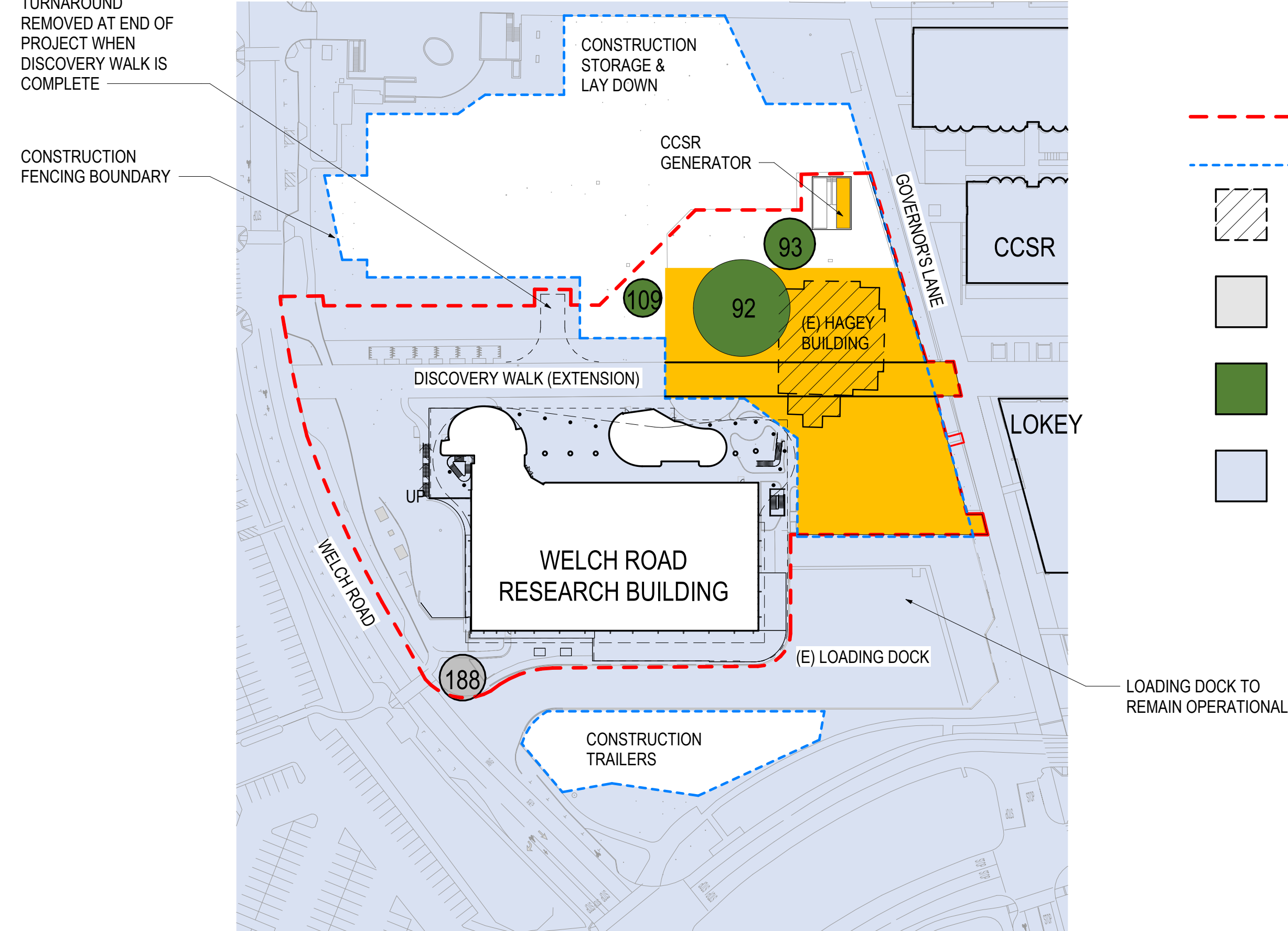
PHASE B

BUILDING PERMIT #3A - FOUNDATION, UTILITIES, BUILDING, GENERATOR, LANDSCAPE (WEST)
BUILDING PERMIT #3C - LOADING DOCK CONNECTION
BUILDING PERMIT #4 - LAB FIT-UP (IF NEEDED)
BUILDING PERMIT #5 - CAFE FIT-UP



PHASE C

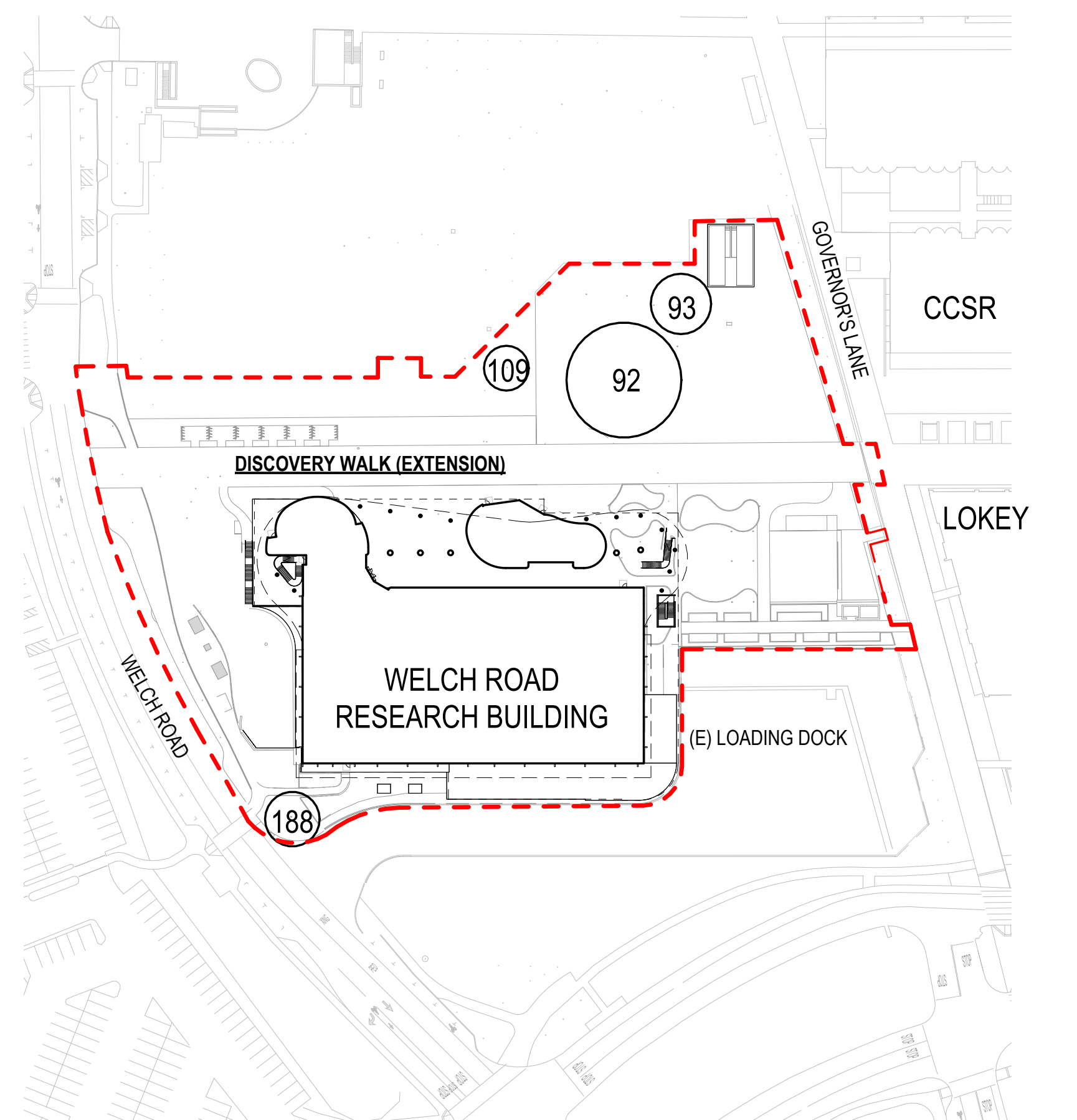
BUILDING PERMIT #3B - LANDSCAPE (EAST)
BUILDING PERMIT #6 - CCSR GENERATOR
DEMO PERMIT #2 - HAGEY BUILDING



LEGEND

- - - PROJECT LIMIT OF WORK
- - - CONSTRUCTION FENCING BOUNDARY
- TO BE REMOVED
- EXISTING PROTECTED TREE OUTSIDE CONSTRUCTION FENCING BOUNDARY
- PROTECTED TREE INSIDE CONSTRUCTION FENCING BOUNDARY
- AREA OUTSIDE CONSTRUCTION FENCING

PHASE D PROJECT COMPLETE



Sheet Size: 24 x 36 [0' 12/16/2024 3:34:10 PM] 2'

CONSTRUCTION LOGISTICS



1215 Welch Road

Original Issue
ASA SUBMITTAL 12.06.2024

Revisions

Key Plan and Orientation

Sheet Status

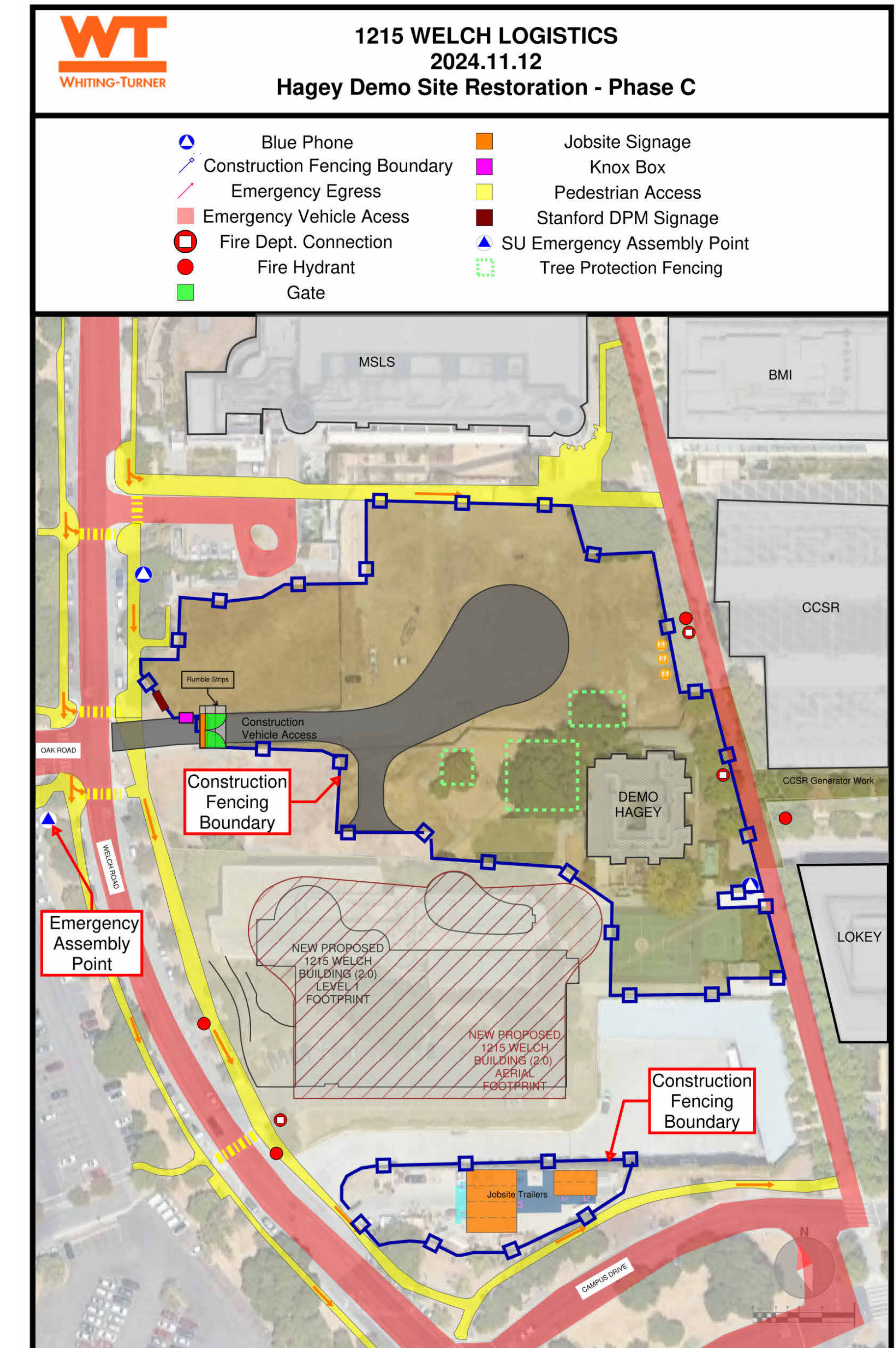
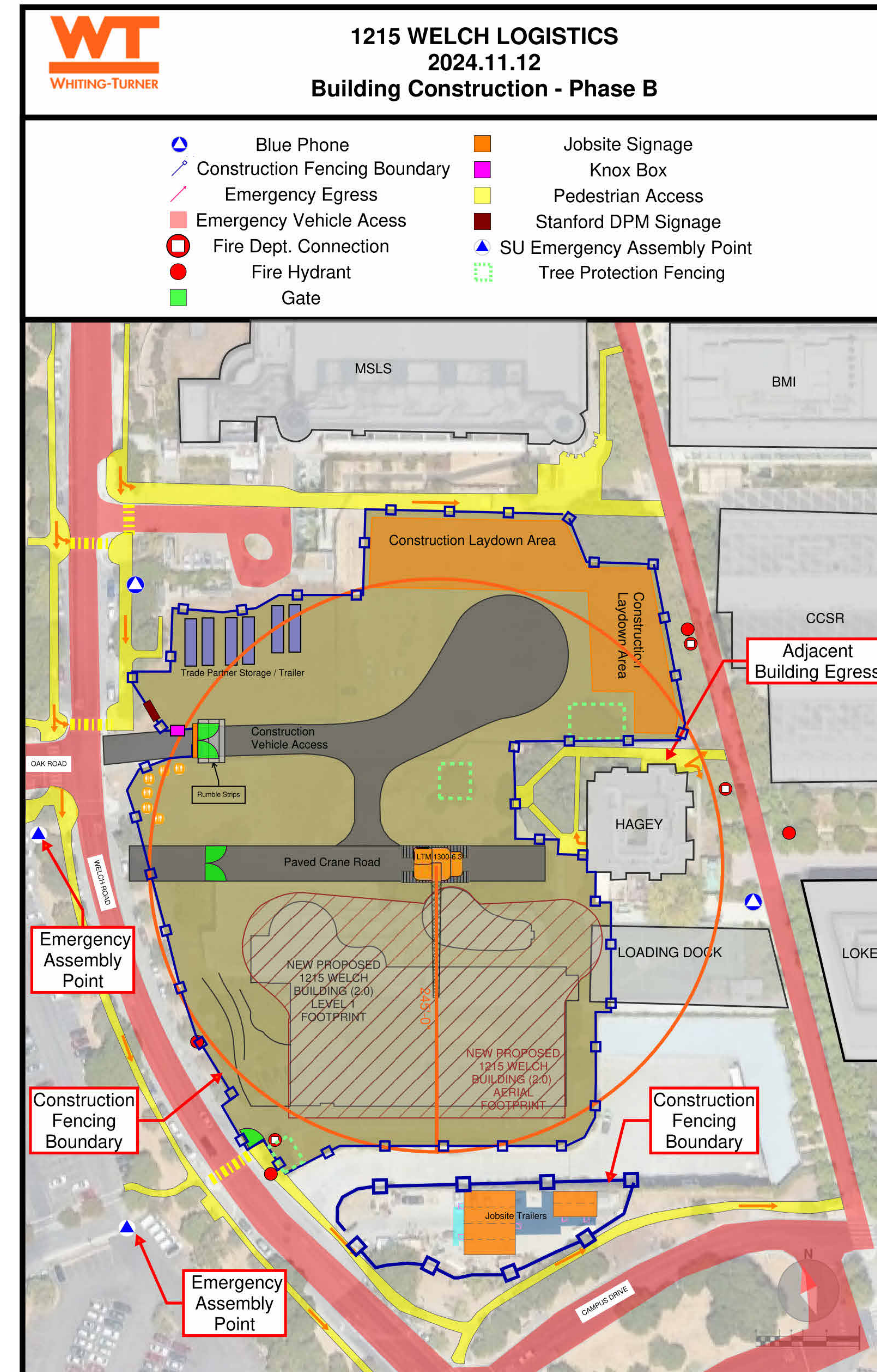
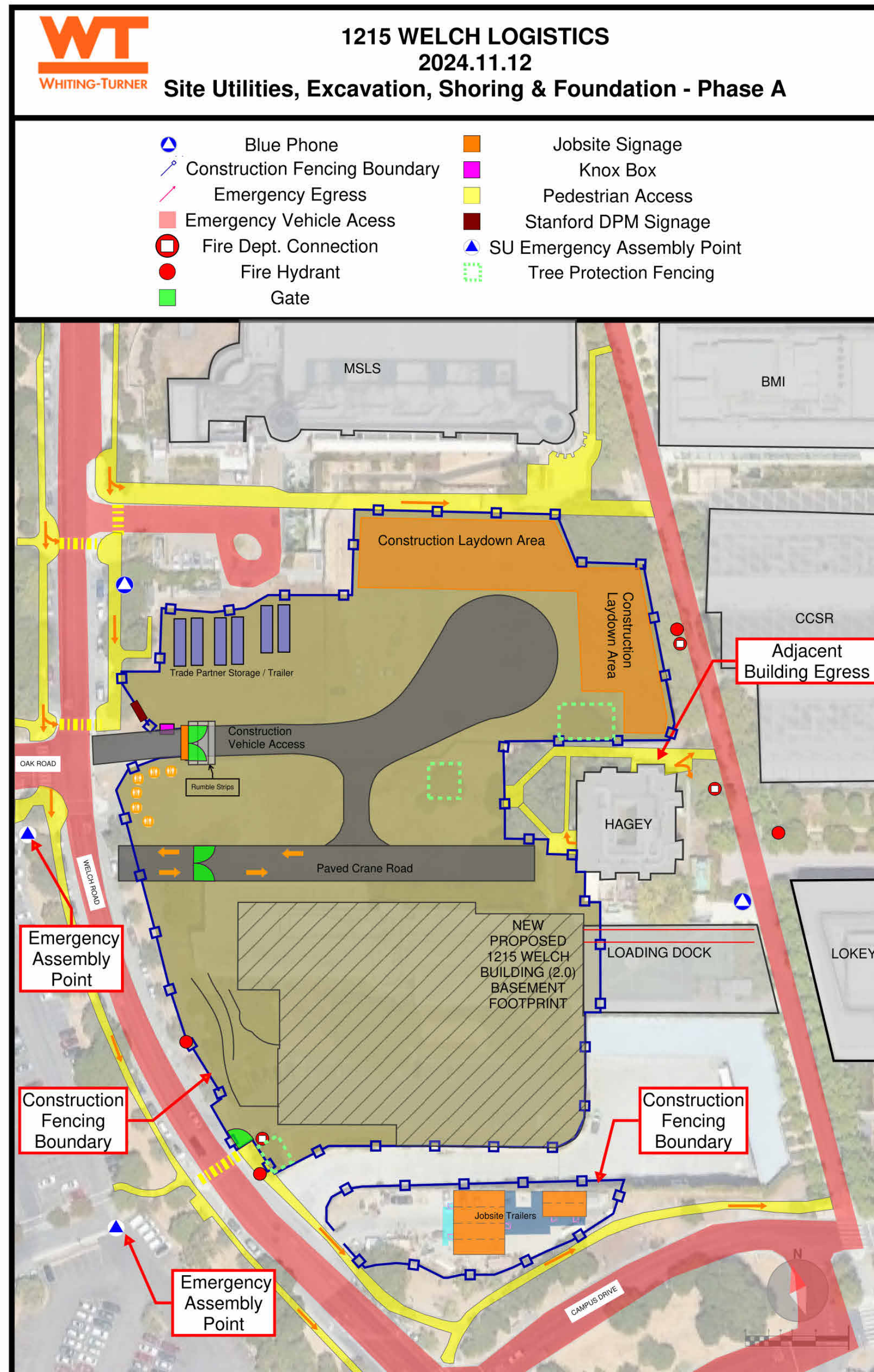
Sheet Title
CONSTRUCTION LOGISTICS PLANS

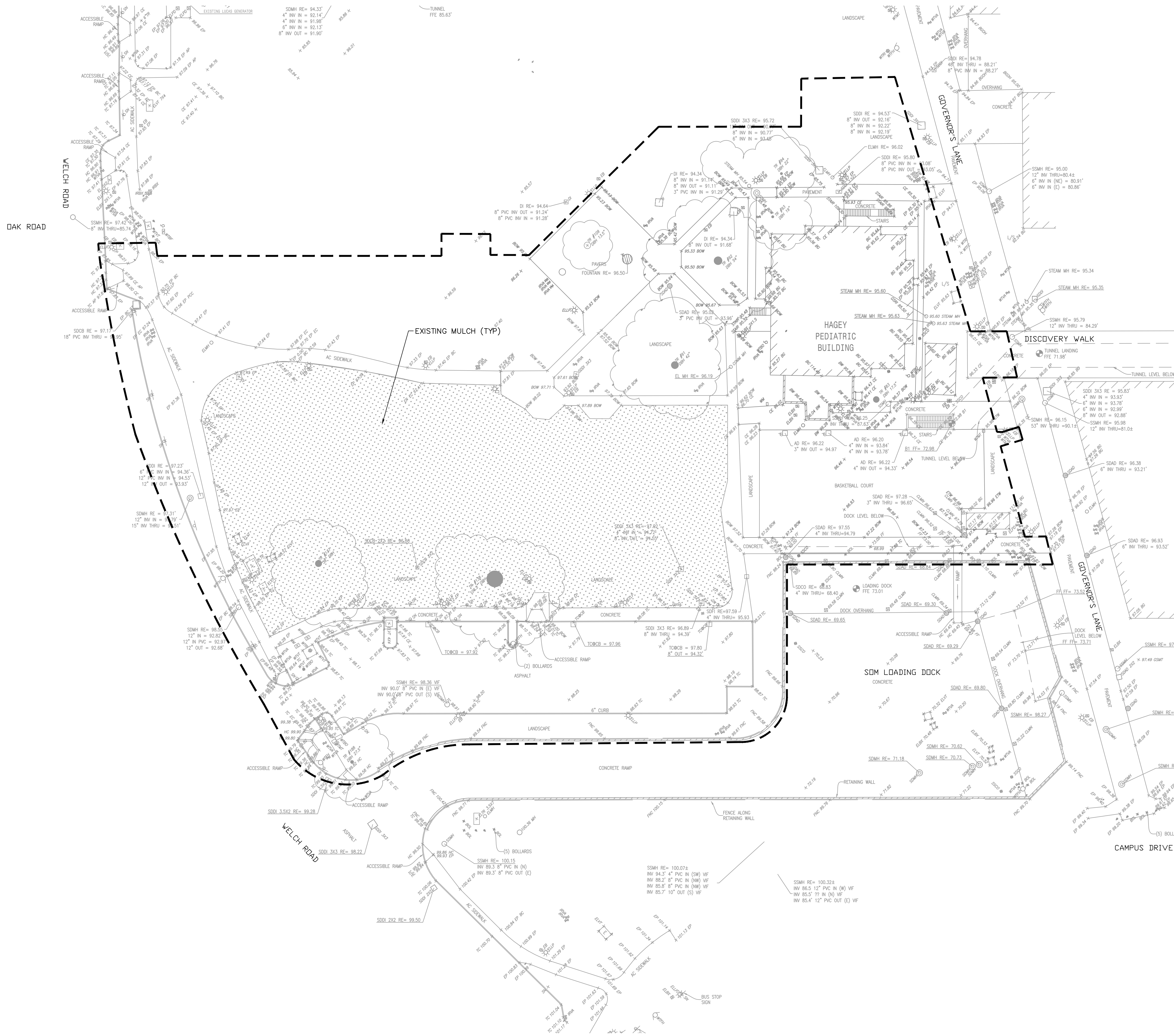
Sheet Number

ASA-G0.08

Current Issue
ASA SUBMITTAL

Current Issue Date
12.06.2024





BASIS OF BEARINGS

THE COORDINATES AND BEARINGS SHOWN ARE BASED ON THE NORTH AMERICAN DATUM OF 1983 (NAD83), EPOCH 1991.35, CALIFORNIA ZONE 3, AS SHOWN ON THE RECORD OF SURVEY OF THE STANFORD MASTER SURVEY CONTROL NETWORK, FILED IN BOOK 747 OF MAPS AT PAGE 40, SANTA CLARA COUNTY RECORDS.

BASIS OF ELEVATIONS

THE ELEVATIONS SHOWN ARE BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD29), AS SHOWN ON THE RECORD OF SURVEY OF THE STANFORD MASTER SURVEY CONTROL NETWORK, FILED IN BOOK 747 OF MAPS AT PAGE 40, SANTA CLARA COUNTY RECORDS.

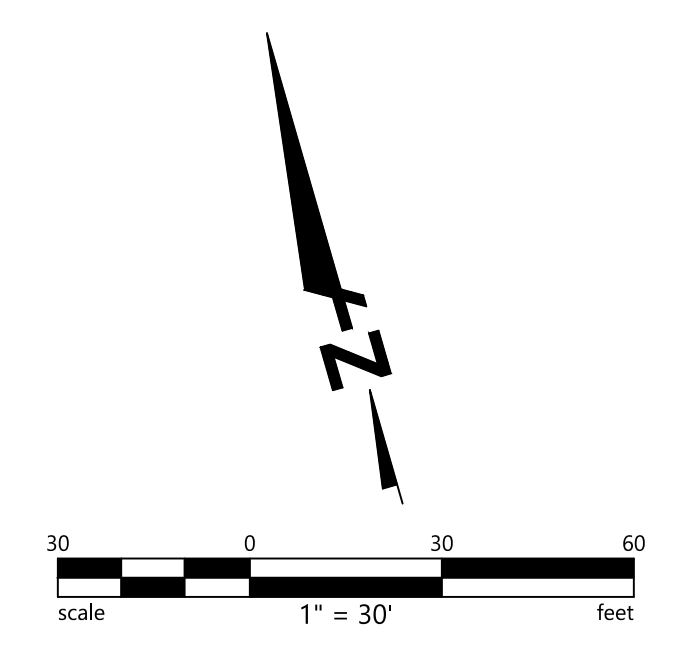
BENCHMARKS

S-4 - RESET: FOUND 2" BRASS DISK W/ PUNCH MARK, STAMPED "STANDARD 4, LS 5237", IN MONUMENT WELL AT THE INTERSECTION OF THE NORTH LANE OF CAMPUS DR. WEST AND PANAMA ST. (NO MAP OF RECORD)
 NORTHING - 1983810.079
 EASTING - 6074375.271
 ELEVATION - 98.17

S-111: FOUND 2 1/2" BRASS DISK W/ PUNCH MARK, STAMPED "S-111, LS 5797", IN MONUMENT WELL IN AC PATH WEST OF THE INTERSECTION OF THE NORTH LANE CAMPUS DR. WEST AND WELSH RD.
 NORTHING - 1983752.666
 EASTING - 6074019.724
 ELEVATION - 101.22

NOTES
 UNITS ARE IN U.S. SURVEY FEET AND DISPLAYED IN FEET AND DECIMALS THEREOF.

LEGEND
 --- LIMIT OF WORK



DENVER
 LOS ANGELES
 NEW YORK
 PORTLAND
 SEATTLE
 WASHINGTON, DC
 VANCOUVER, BC

1223 SW Washington Street
 Suite 200
 Portland, OR 97205
 503.224.3860
 www.zgf.com

ZGF Project Number P26717.wrss
 Consultant



Full Design Team Roster on Sheet A0.02
 Client and Project Information



STANFORD UNIVERSITY
 SCHOOL OF MEDICINE
 1215 Welch Rd
 Stanford, CA 94305

Original Issue
 ASA SUBMITTAL 12.06.2024

Revisions

Key Plan and Orientation

Sheet Status
**NOT FOR
 CONSTRUCTION**

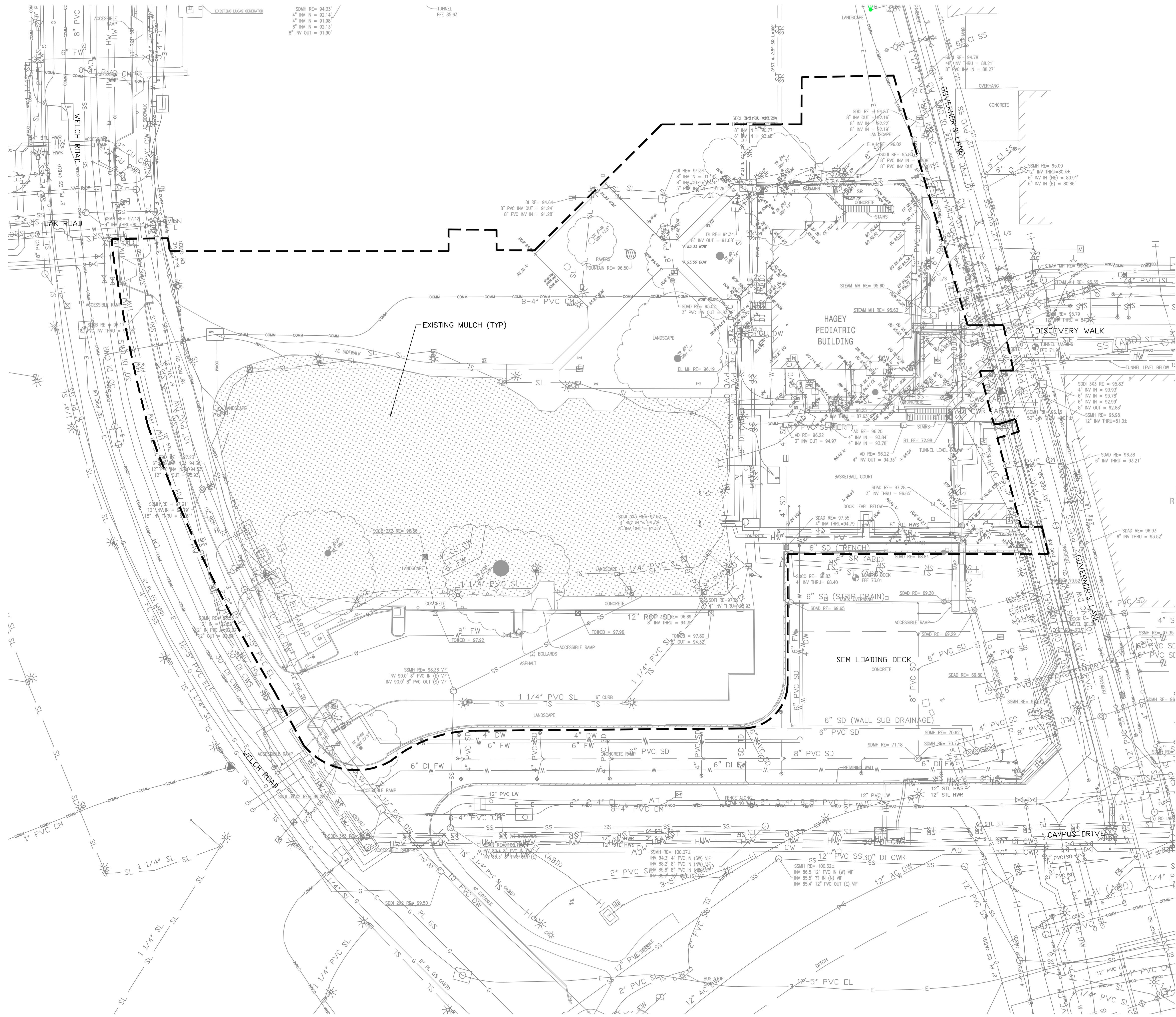
Sheet Title
**EXISTING TOPOGRAPHIC
 SURVEY**

Sheet Number
ASA-C1.00

Current Issue
ASA SUBMITTAL

Current Issue Date
12.06.2024

Sheet Size: 24 x 36
 03/13/2024 @ 3:45 PM
 1" = 30'
 1" = 30'



EXISTING UTILITIES LEGEND

- STORM DRAIN LINE
- SS SEWER LINE
- G GAS LINE
- E ELECTRICAL LINE
- SL STREET LIGHT LINE
- W WATER LINE
- ST STEAM LINE
- SR STEAM RETURN LINE
- HW HOT WATER SUPPLY LINE
- - - - - LIMIT OF WORK



ZIMMER GUNDSUL FRASCA ARCHITECTS LLP
 DENVER
 LOS ANGELES
 NEW YORK
 PORTLAND
 SEATTLE
 WASHINGTON, DC
 VANCOUVER, BC
 1223 SW Washington Street
 Suite 200
 Portland, OR 97205
 503.224.3860
 www.zgf.com

ZGF Project Number P26717.wrss
 Consultant



7901 Stoneridge Drive,
 SUITE 360
 PLEASANTON, CA 94588
 (925) 396-7700
 www.bkf.com

Full Design Team Roster on Sheet A0.02
 Client and Project Information



STANFORD UNIVERSITY
 SCHOOL OF MEDICINE
 1215 Welch Rd
 Stanford, CA 94305
 Original Issue
 ASA SUBMITTAL 12.06.2024

Revisions

Key Plan and Orientation

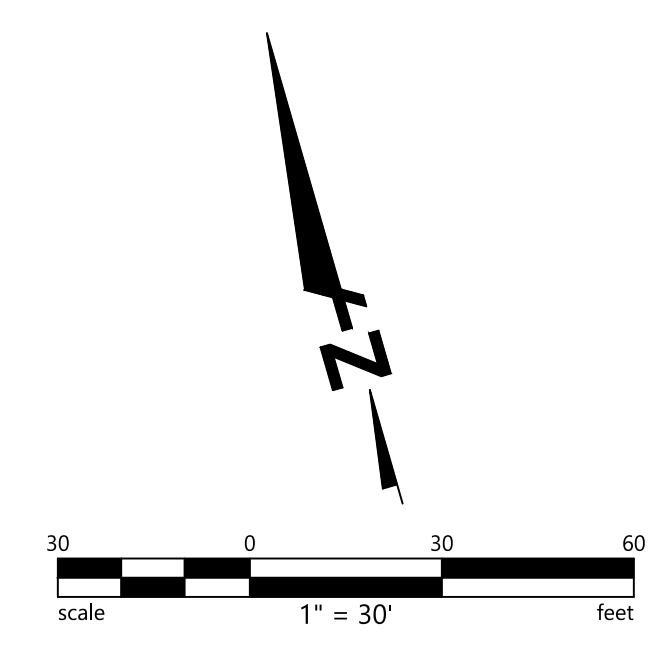
Sheet Status
NOT FOR CONSTRUCTION

Sheet Title
EXISTING SITE UTILITIES

Sheet Number
ASA-C1.01

Current Issue
ASA SUBMITTAL

Current Issue Date
12.06.2024



Sheet Size: 24 x 36
 10'
 1"
 03/10/2024 @ 3:45 PM

DEMOLITION LEGEND

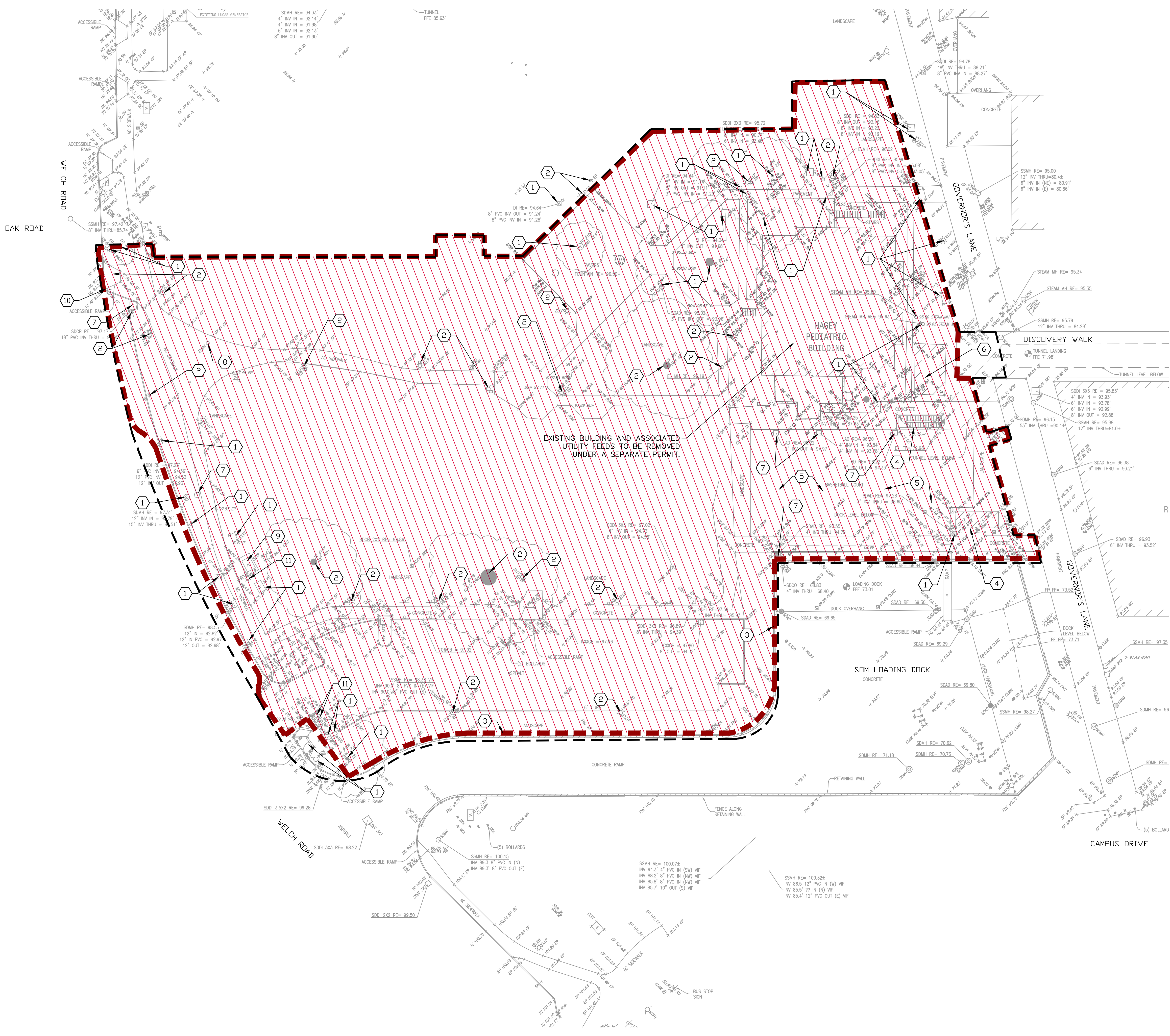
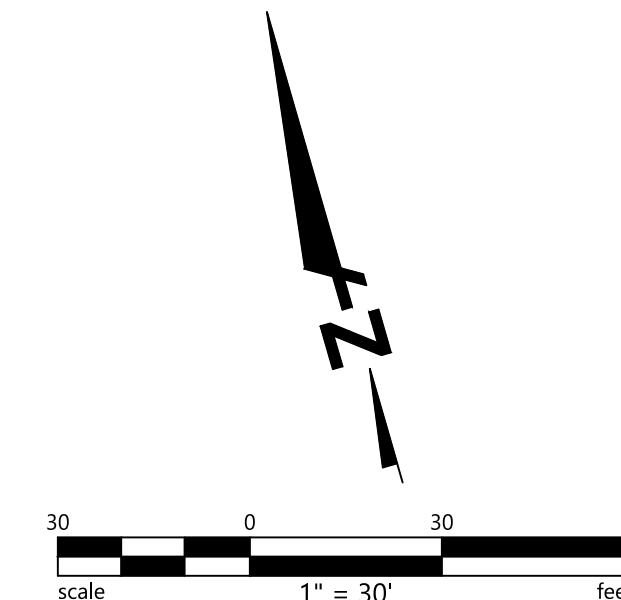
-  DEMOLITION AREA
-  LIMIT OF WORK

GENERAL NOTES

1. PROVIDE TREE PROTECTION FOR ALL TREES TO REMAIN PER STANFORD GUIDELINES. SEE LANDSCAPE DRAWINGS FOR TREE PROTECTION PLAN.
2. WITHIN LIMIT OF DEMOLITION, REMOVE ALL CONCRETE, ASPHALT CONCRETE, AGGREGATE BASE, TOPSOIL, ORGANIC MATERIAL, AND MISCELLANEOUS ITEMS UNLESS OTHERWISE NOTED ON PLANS.
3. PROTECT ALL EXISTING UNDERGROUND UTILITIES UNLESS OTHERWISE NOTED ON PLANS. ADJUST ALL UTILITY STRUCTURES TO PROPOSED GRADE.
4. CONTRACTOR TO SALVAGE SIGNS THAT ARE TO BE REMOVED/RELOCATED FOR REUSE IF IN GOOD CONDITION.
5. PRIOR TO THE START OF CONSTRUCTION, CONTRACTOR TO REVIEW RECORD DOCUMENTS AND VERIFY THAT EXISTING CONDITIONS AT THE PROJECT SITE ARE AS SHOWN ON THE DOCUMENTS FOR THIS PROJECT. NOTIFY OWNER'S REPRESENTATIVE IMMEDIATELY UPON DISCOVERY OF DISCREPANCIES BETWEEN EXISTING CONDITIONS AND INFORMATION SHOWN ON THESE IMPROVEMENT PLANS.
6. ANY EXCAVATION CREATED DURING DEMOLITION SHOULD BE PROPERLY BACKFILLED WITH COMPACTED FILL UNDER THE OBSERVATION OF THE GEOTECHNICAL ENGINEER.
7. DEMOLITION WILL NOT BEGIN UNTIL WQD IS RECEIVED FROM THE STATE WATER BOARDS.

DEMOLITION KEYNOTES

- 1 EXISTING TO REMAIN. PROTECT IN PLACE.
- 2 REMOVE/DEMOLISH EXISTING FEATURE.
- 3 SEE STRUCTURAL DRAWINGS FOR DEMOLITION SCOPE OF WORK AROUND EXISTING LOADING DOCK RETAINING WALL.
- 4 EXISTING STAIR & ELEVATOR ACCESS TO BELOW GRADE TUNNEL/ LOADING DOCK SHALL REMAIN. PROTECT IN PLACE.
- 5 SEE ARCHITECTURAL DRAWINGS FOR SCOPE OVERTOP OF TUNNEL/ LOADING DOCK LID.
- 6 RELOCATE EXISTING CCSR GENERATOR AND ASSOCIATED ELECTRICAL FEED.
- 7 EXISTING STORM DRAIN STRUCTURE TO REMAIN. ADJUST TO PROPOSED GRADE AS NECESSARY. SEE PROPOSED UTILITY PLAN FOR MORE INFORMATION.
- 8 RELOCATE EXISTING TELECOM VAULT #25 AND ASSOCIATED CONDUIT FEEDS. SEE PROPOSED UTILITY PLAN FOR MORE INFORMATION.
- 9 EXISTING PAD MOUNT SWITCH TO BE REPLACED BY STANFORD HIGH VOLT. SHOWN FOR REFERENCE ONLY.
- 10 REMOVE AND RELOCATE EXISTING STOP SIGN. SEE PROPOSED PAVING AND STRIPING PLAN FOR MORE INFORMATION.
- 11 RELOCATE EXISTING LIGHT FIXTURE. SEE LIGHTING PLANS FOR MORE INFORMATION.



EXISTING BUILDING AND ASSOCIATED UTILITY FEEDS TO BE REMOVED UNDER A SEPARATE PERMIT.

LEGEND

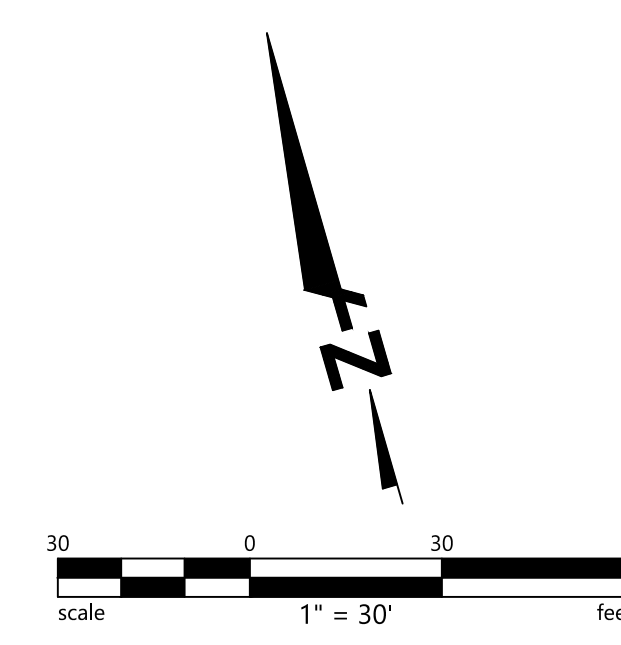
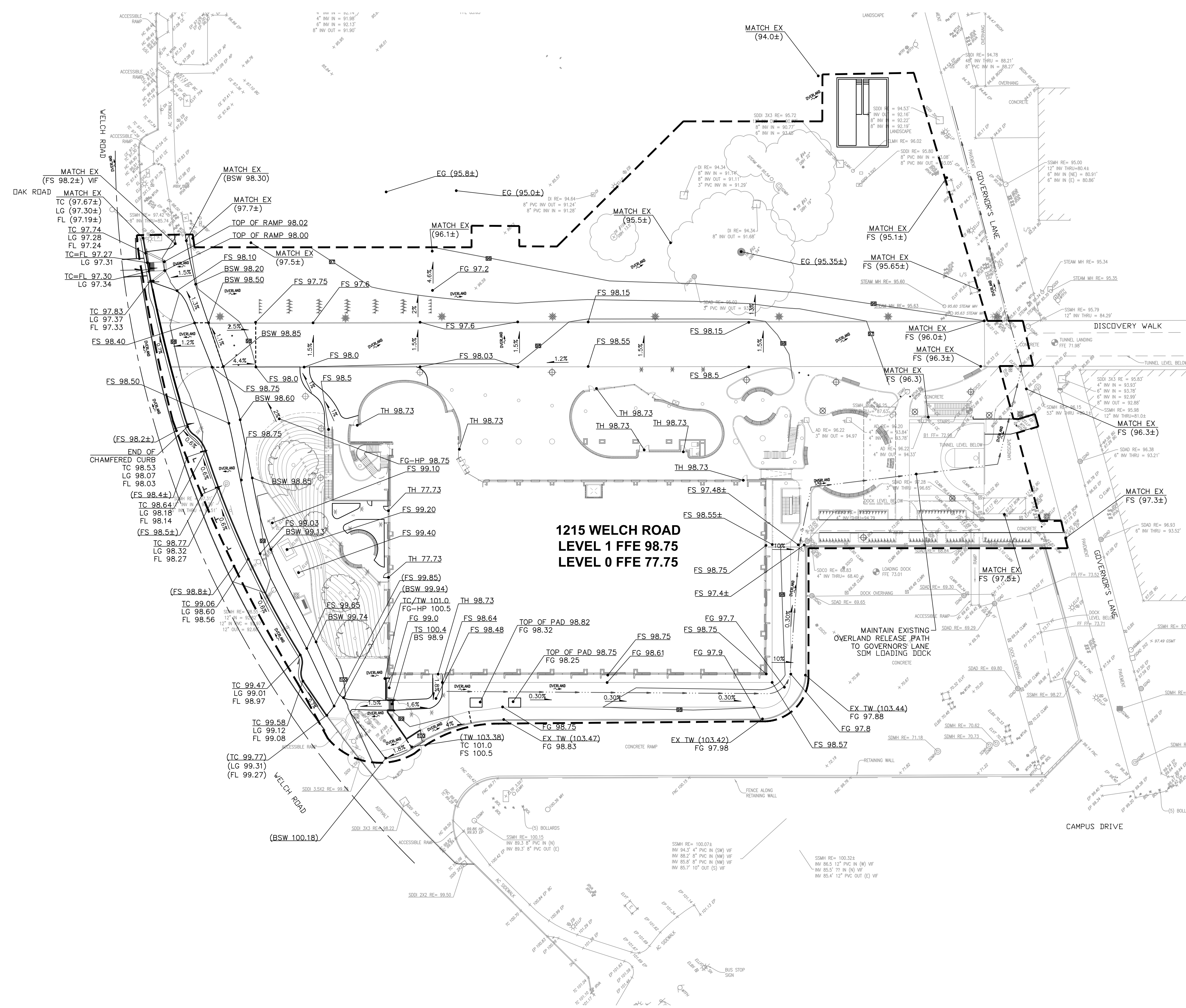
- GRADE BREAK
- x (10.0±) EXISTING FINISHED GRADE
- x 10.00 PROPOSED FINISHED GRADE
- x.x% DRAINAGE SLOPE ARROW
- x--- DRAINAGE PATHWAY
- LIMIT OF WORK

GENERAL NOTES

1. THE CONTRACTOR IS RESPONSIBLE FOR MATCHING EXISTING GRADES OF STREETS, SURROUNDING LANDSCAPE AND OTHER IMPROVEMENTS WITH A SMOOTH TRANSITION IN PAVING, CURBS, AND SIDEWALKS, GRADING ETC. AND TO AVOID ABRUPT OR APPARENT CHANGES.
2. REFER TO ARCHITECTURAL PLANS FOR BUILDING DETAILS.
3. ALL PROPOSED ELEVATIONS ARE TO FINISH SURFACE UNLESS OTHERWISE NOTED.
4. ALL GRADING WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS AND RECOMMENDATIONS CONTAINED IN THE PROJECT GEOTECHNICAL INVESTIGATION & ANY ASSOCIATED SUPPLEMENTAL LETTERS OR REPORTS.
5. TOP OF CURB ELEVATIONS (TC) ARE 6" ABOVE ADJACENT PAVEMENT FINISH SURFACE ELEVATIONS (FS), OR FLOWLINE (FL) UNLESS OTHERWISE NOTED ON PLAN.
6. ADJUST EXISTING UTILITY STRUCTURES TO REMAIN TO THE PROPOSED FINISHED GRADE ELEVATION. EXISTING UTILITY STRUCTURES TO REMAIN SHALL SIT FLUSH WITH THE ADJACENT GRADE.
7. PROVIDE ACCESSIBLE LANDING AT ALL DOORS AS FOLLOWS:
 - a. WIDTH = 5'-0" MIN.
 - b. DEPTH = 5'-0" MIN.
 - c. CROSS-SLOPE = 1.0% MIN., 2.0% MAX.

ABBREVIATIONS

- BS BOTTOM OF STAIR
- BSW BACK OF SIDEWALK
- EG EXISTING GRADE
- EX EXISTING
- FFE FINISHED FLOOR ELEVATION
- FC FINISHED GRADE
- FL FLOWLINE
- FS FINISHED SURFACE
- GB GRADE BREAK
- HP HIGH POINT
- LG LIP OF GUTTER
- LP LOW POINT
- TC TOP OF CURB
- TH THRESHOLD
- TS TOP OF STAIR
- TW TOP OF WALL



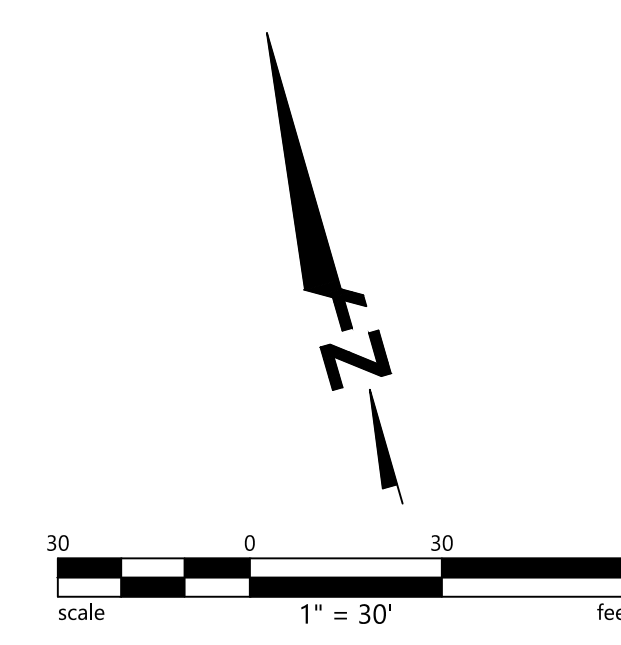
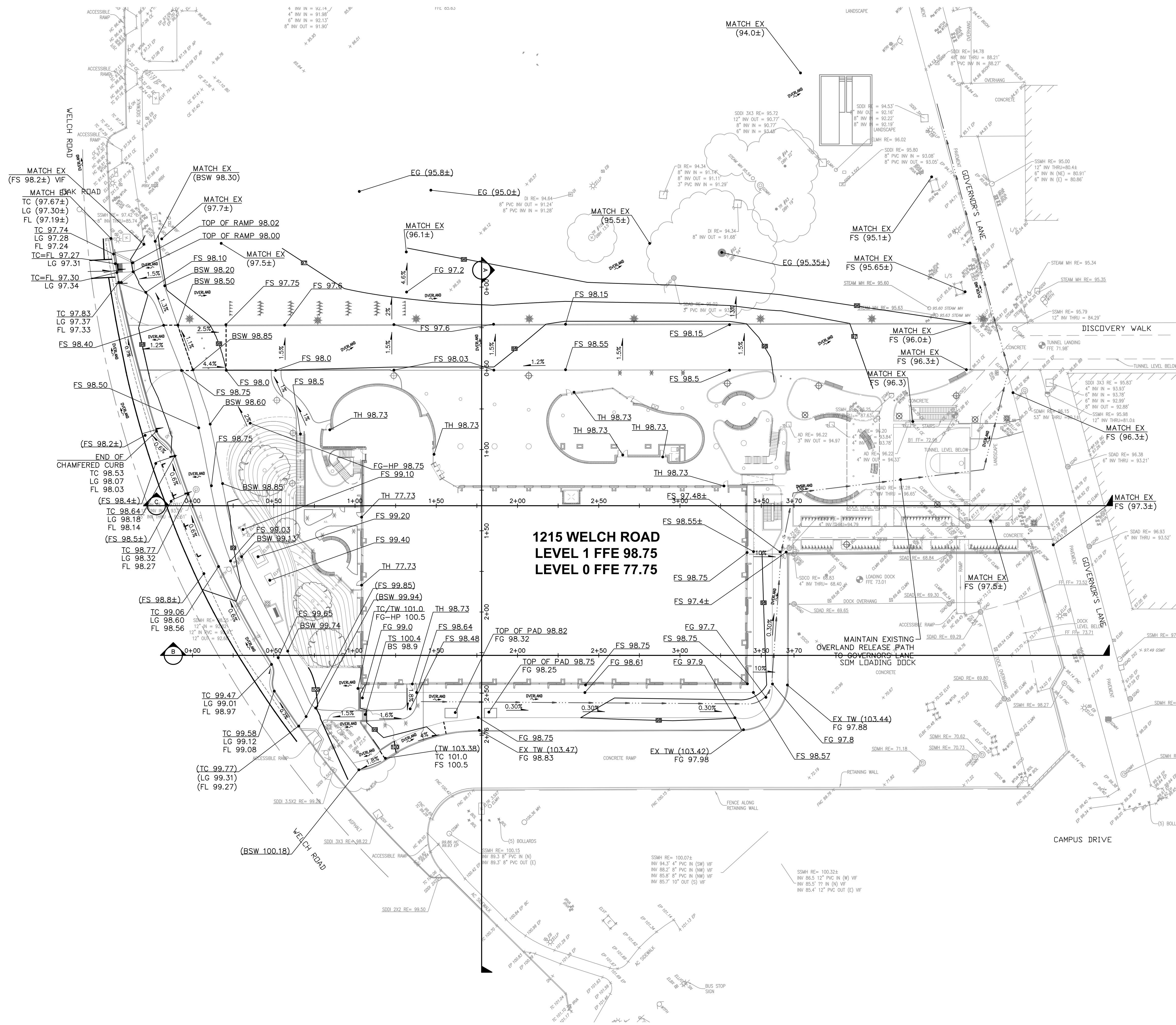
Sheet Size: 24 x 36
03/13/2024 @ 3:45 PM

GENERAL NOTES

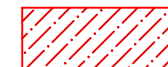





- SEE LANDSCAPE PLANS FOR DETAILS REGARDING TREE/LANDSCAPING PLANTING, SITE WALLS AND ALL OTHER SITE FEATURES.
- ACTUAL QUANTITIES MAY VARY DUE TO FIELD CONDITIONS OR CONSTRUCTION TECHNIQUES. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL QUANTITIES BASED UPON APPROVED PLANS AND PERFORM THEIR OWN INDEPENDENT CALCULATIONS. CONTRACTOR SHALL USE THEIR OWN CALCULATED QUANTITIES FOR BID PURPOSES.
- THE EARTHWORK QUANTITIES SHOWN ARE IN-PLACE QUANTITIES AND HAVE BEEN ESTIMATED BY THE ENGINEER WITH THE FOLLOWING ASSUMPTIONS:
 - EARTHWORK QUANTITIES ARE COMPLETED TO TOP OF GRADE AND DO NOT ACCOUNT FOR THE THICKNESS OF THE FINISHED SURFACE SECTION.
 - EARTHWORK QUANTITIES DO NOT ACCOUNT FOR UTILITY TRENCHING AND SPOILS.
 - EARTHWORK QUANTITIES DO NOT ACCOUNT FOR EXCAVATION DEPTH FOR LANDSCAPING PLANTING SOILS.
 - EARTHWORK QUANTITIES DO NOT ACCOUNT FOR TOPSOIL AND PLANTING MATERIAL.
 - EARTHWORK QUANTITIES DO NOT ACCOUNT FOR FILL SHRINKAGE/SWELLING FACTORS.
 - EARTHWORK QUANTITIES DO NOT ACCOUNT FOR ANY NECESSARY OVEREXCAVATION.
 - EARTHWORK QUANTITIES UTILIZE THE BASEMENT FINISHED FLOOR WHEN CALCULATING CUT BENEATH THE PROPOSED BUILDING. DEPTHS OF STRUCTURAL ELEMENTS, INCLUDING FOOTINGS AND SLABS ARE NOT INCLUDED IN THE QUANTITIES.
- CUT AND FILL QUANTITIES UP TO 5' OUTSIDE OF THE BUILDING FOOTPRINT AND WITHIN THE BUILDING FOOTPRINT ARE CONSIDERED BUILDING EARTHWORK FOR PERMITTING PURPOSES. SEE EARTHWORK TABLE BELOW FOR MORE INFORMATION.

EARTHWORK TABLE

LOCATION	EARTHWORK QUANTITIES (C.Y.)		MAXIMUM DEPTH (FEET)	
	CUT	FILL	CUT	FILL
DRIVEWAY, ACCESS ROAD	0	403	N/A	2.5
BUILDING PAD	44,149	705	20.75	1
LANDSCAPING	2,423	533	17	1.5
OTHER IMPROVEMENTS				
TOTAL	46,572	1,661	20.75	2.5



LEGEND

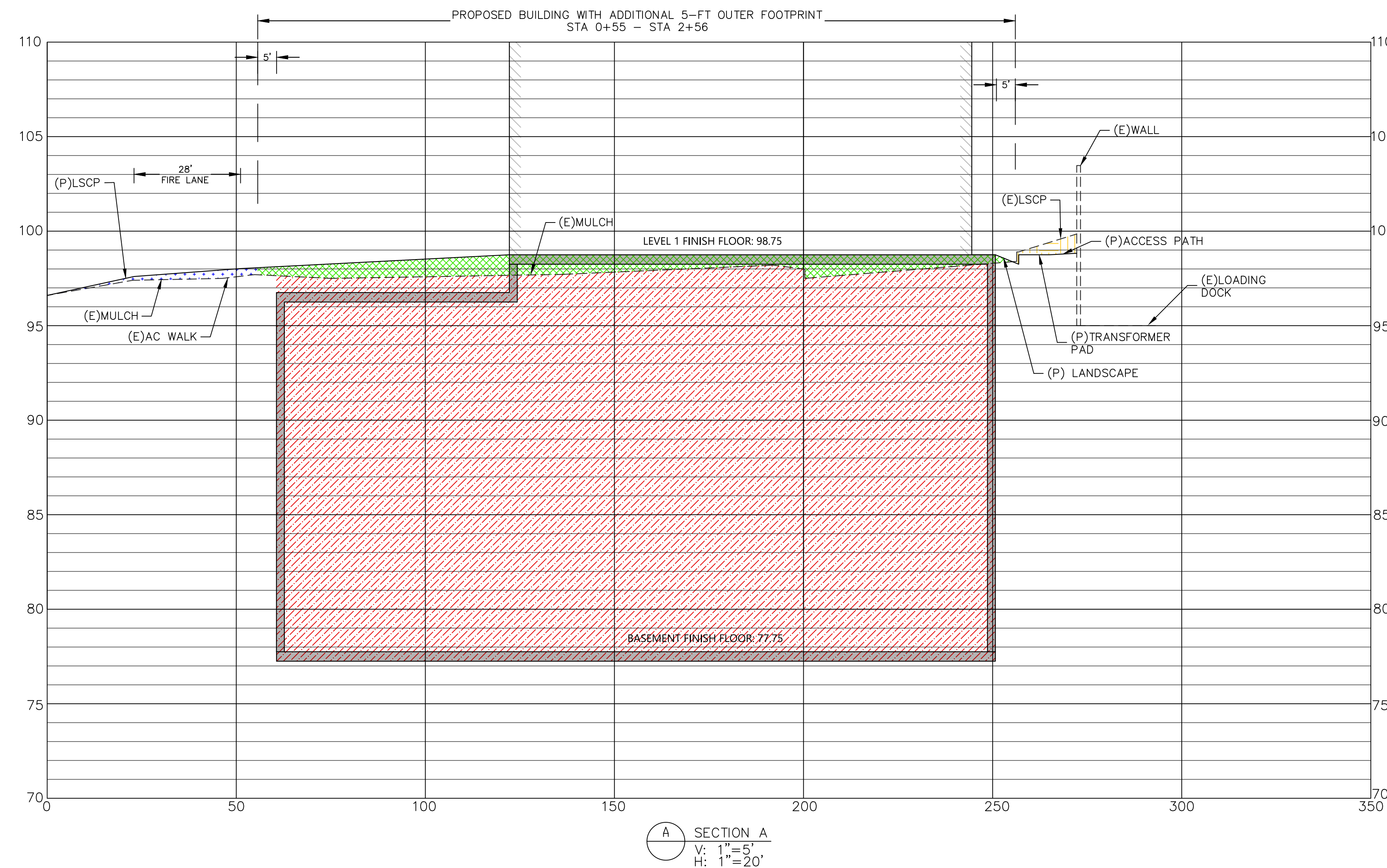
-  PROPOSED BUILDING AREA TO BE CUT
SEE NOTE 4
-  PROPOSED BUILDING AREA TO BE FILLED
SEE NOTE 4
-  PROPOSED SITE AREA TO BE CUT
-  PROPOSED SITE AREA TO BE FILLED
-  EXISTING GRADE
-  PROPOSED GRADE

GENERAL NOTES

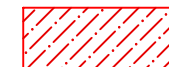





- SEE LANDSCAPE PLANS FOR DETAILS REGARDING TREE/LANDSCAPING PLANTING, SITE WALLS, AND ALL OTHER SITE FEATURES.
- ACTUAL QUANTITIES MAY VARY DUE TO FIELD CONDITIONS OR CONSTRUCTION TECHNIQUES. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL QUANTITIES BASED UPON APPROVED PLANS AND PERFORM THEIR OWN INDEPENDENT CALCULATIONS. CONTRACTOR SHALL USE THEIR OWN CALCULATED QUANTITIES FOR BID PURPOSES.
- THE EARTHWORK QUANTITIES SHOWN ARE IN-PLACE QUANTITIES AND HAVE BEEN ESTIMATED BY THE ENGINEER WITH THE FOLLOWING ASSUMPTIONS:
 - EARTHWORK QUANTITIES ARE COMPLETED TO TOP OF GRADE AND DO NOT ACCOUNT FOR THE THICKNESS OF THE FINISHED SURFACE SECTION.
 - EARTHWORK QUANTITIES DO NOT ACCOUNT FOR UTILITY TRENCHING AND SPOILS.
 - EARTHWORK QUANTITIES DO NOT ACCOUNT FOR EXCAVATION DEPTH FOR LANDSCAPING PLANTING SOILS.
 - EARTHWORK QUANTITIES DO NOT ACCOUNT FOR TOPSOIL AND PLANTING MATERIAL.
 - EARTHWORK QUANTITIES DO NOT ACCOUNT FOR FILL SHRINKAGE/SWELLING FACTORS.
 - EARTHWORK QUANTITIES DO NOT ACCOUNT FOR ANY NECESSARY OVEREXCAVATION.
 - EARTHWORK QUANTITIES UTILIZE THE BASEMENT FINISHED FLOOR WHEN CALCULATING CUT BENEATH THE PROPOSED BUILDING. DEPTHS OF STRUCTURAL ELEMENTS, INCLUDING FOOTINGS AND SLABS ARE NOT INCLUDED IN THE QUANTITIES.
- CUT AND FILL QUANTITIES UP TO 5' OUTSIDE OF THE BUILDING FOOTPRINT AND WITHIN THE BUILDING FOOTPRINT ARE CONSIDERED BUILDING EARTHWORK FOR PERMITTING PURPOSES. SEE EARTHWORK TABLE BELOW FOR MORE INFORMATION.

EARTHWORK TABLE

LOCATION	EARTHWORK QUANTITIES (C.Y.)		MAXIMUM DEPTH (FEET)	
	CUT	FILL	CUT	FILL
DRIVEWAY, ACCESS ROAD	0	403	N/A	2.5
BUILDING PAD	44,149	705	20.75	1
LANDSCAPING	2,423	533	17	1.5
OTHER IMPROVEMENTS	0	0	0	0
TOTAL	46,572	1,661	20.75	2.5



LEGEND

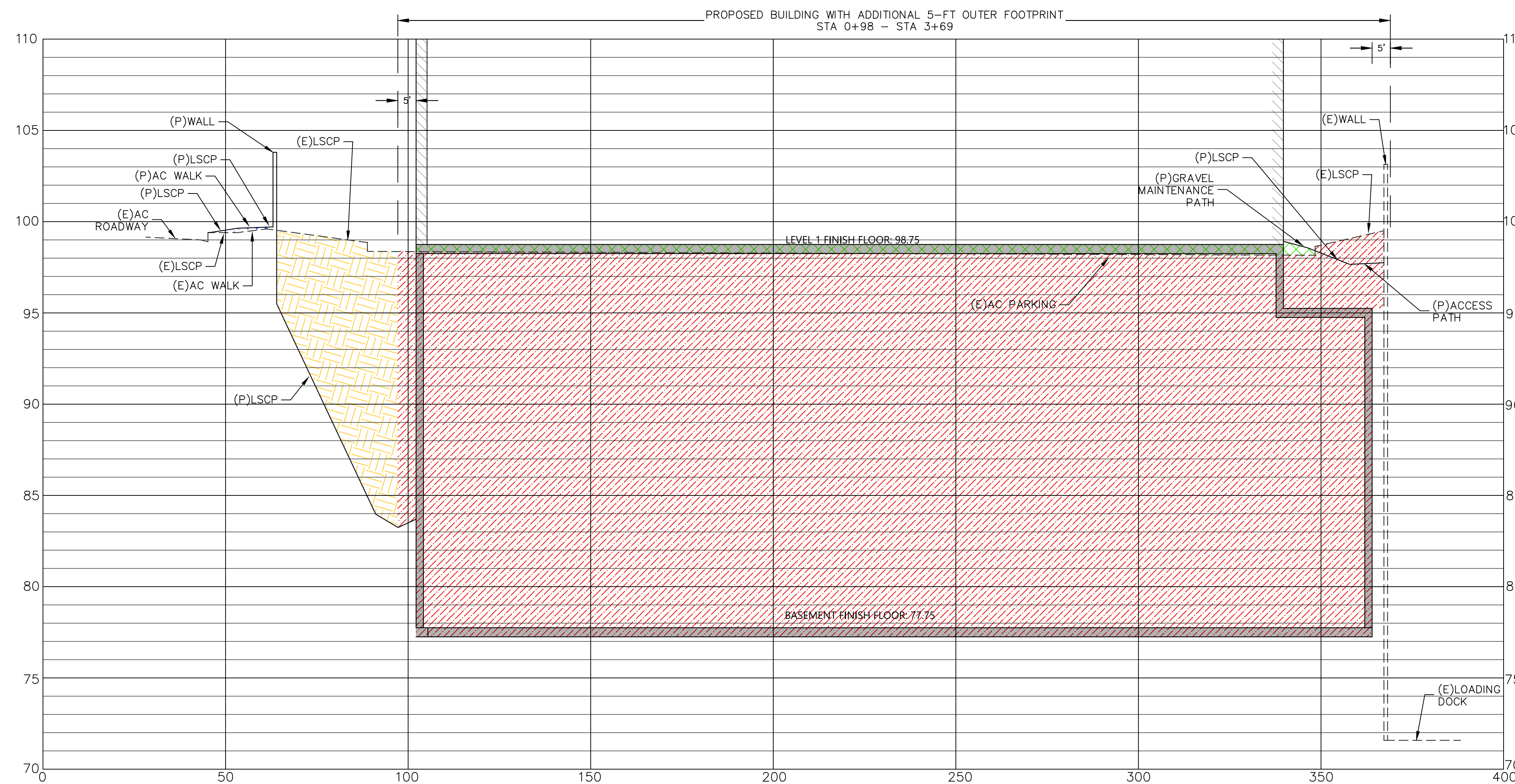
-  PROPOSED BUILDING AREA TO BE CUT
SEE NOTE 4
-  PROPOSED BUILDING AREA TO BE FILLED
SEE NOTE 4
-  PROPOSED SITE AREA TO BE CUT
-  PROPOSED SITE AREA TO BE FILLED
-  EXISTING GRADE
-  PROPOSED GRADE

GENERAL NOTES

- SEE LANDSCAPE PLANS FOR DETAILS REGARDING TREE/LANDSCAPING PLANTING, SITE WALLS, AND ALL OTHER SITE FEATURES.
- ACTUAL QUANTITIES MAY VARY DUE TO FIELD CONDITIONS OR CONSTRUCTION TECHNIQUES. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL QUANTITIES BASED UPON APPROVED PLANS AND PERFORM THEIR OWN INDEPENDENT CALCULATIONS. CONTRACTOR SHALL USE THEIR OWN CALCULATED QUANTITIES FOR BID PURPOSES.
- THE EARTHWORK QUANTITIES SHOWN ARE IN-PLACE QUANTITIES AND HAVE BEEN ESTIMATED BY THE ENGINEER WITH THE FOLLOWING ASSUMPTIONS:
 - EARTHWORK QUANTITIES ARE COMPLETED TO TOP OF GRADE AND DO NOT ACCOUNT FOR THE THICKNESS OF THE FINISHED SURFACE SECTION.
 - EARTHWORK QUANTITIES DO NOT ACCOUNT FOR UTILITY TRENCHING AND SPOILS.
 - EARTHWORK QUANTITIES DO NOT ACCOUNT FOR EXCAVATION DEPTH FOR LANDSCAPING PLANTING SOILS.
 - EARTHWORK QUANTITIES DO NOT ACCOUNT FOR TOPSOIL AND PLANTING MATERIAL.
 - EARTHWORK QUANTITIES DO NOT ACCOUNT FOR FILL SHRINKAGE/SWELLING FACTORS.
 - EARTHWORK QUANTITIES DO NOT ACCOUNT FOR ANY NECESSARY OVEREXCAVATION.
 - EARTHWORK QUANTITIES UTILIZE THE BASEMENT FINISHED FLOOR WHEN CALCULATING CUT BENEATH THE PROPOSED BUILDING. DEPTHS OF STRUCTURAL ELEMENTS, INCLUDING FOOTINGS AND SLABS ARE NOT INCLUDED IN THE QUANTITIES.
- CUT AND FILL QUANTITIES UP TO 5' OUTSIDE OF THE BUILDING FOOTPRINT AND WITHIN THE BUILDING FOOTPRINT ARE CONSIDERED BUILDING EARTHWORK FOR PERMITTING PURPOSES. SEE EARTHWORK TABLE BELOW FOR MORE INFORMATION.

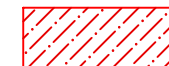





EARTHWORK TABLE

LOCATION	EARTHWORK QUANTITIES (C.Y.)		MAXIMUM DEPTH (FEET)	
	CUT	FILL	CUT	FILL
DRIVEWAY, ACCESS ROAD	0	403	N/A	2.5
BUILDING PAD	44,149	705	20.75	1
LANDSCAPING	2,423	533	17	1.5
OTHER IMPROVEMENTS	0	0	0	0
TOTAL	46,572	1,661	20.75	2.5



B SECTION B
V: 1"=5'
H: 1"=20'

LEGEND

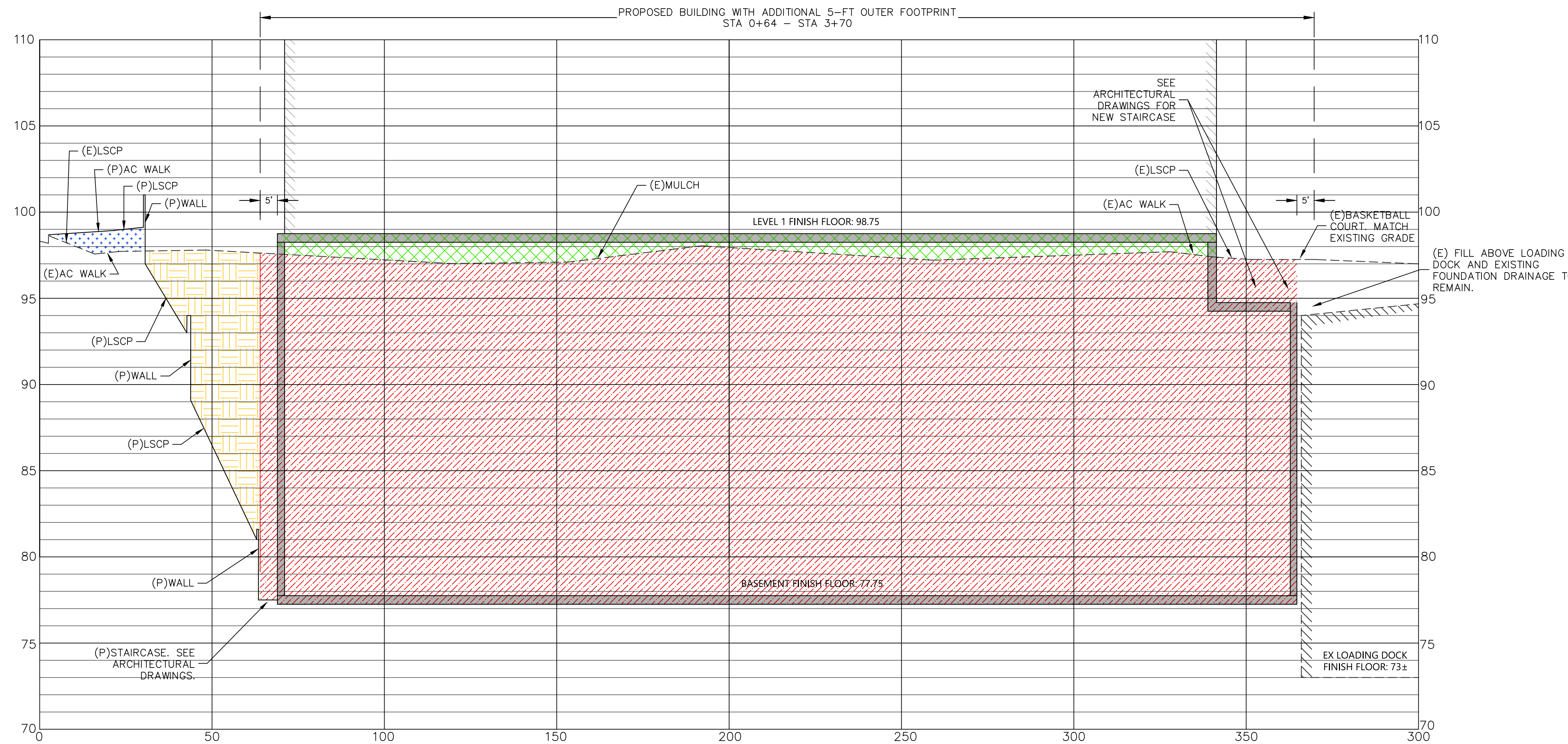
-  PROPOSED BUILDING AREA TO BE CUT
SEE NOTE 4
-  PROPOSED BUILDING AREA TO BE FILLED
SEE NOTE 4
-  PROPOSED SITE AREA TO BE CUT
-  PROPOSED SITE AREA TO BE FILLED
-  EXISTING GRADE
-  PROPOSED GRADE

GENERAL NOTES

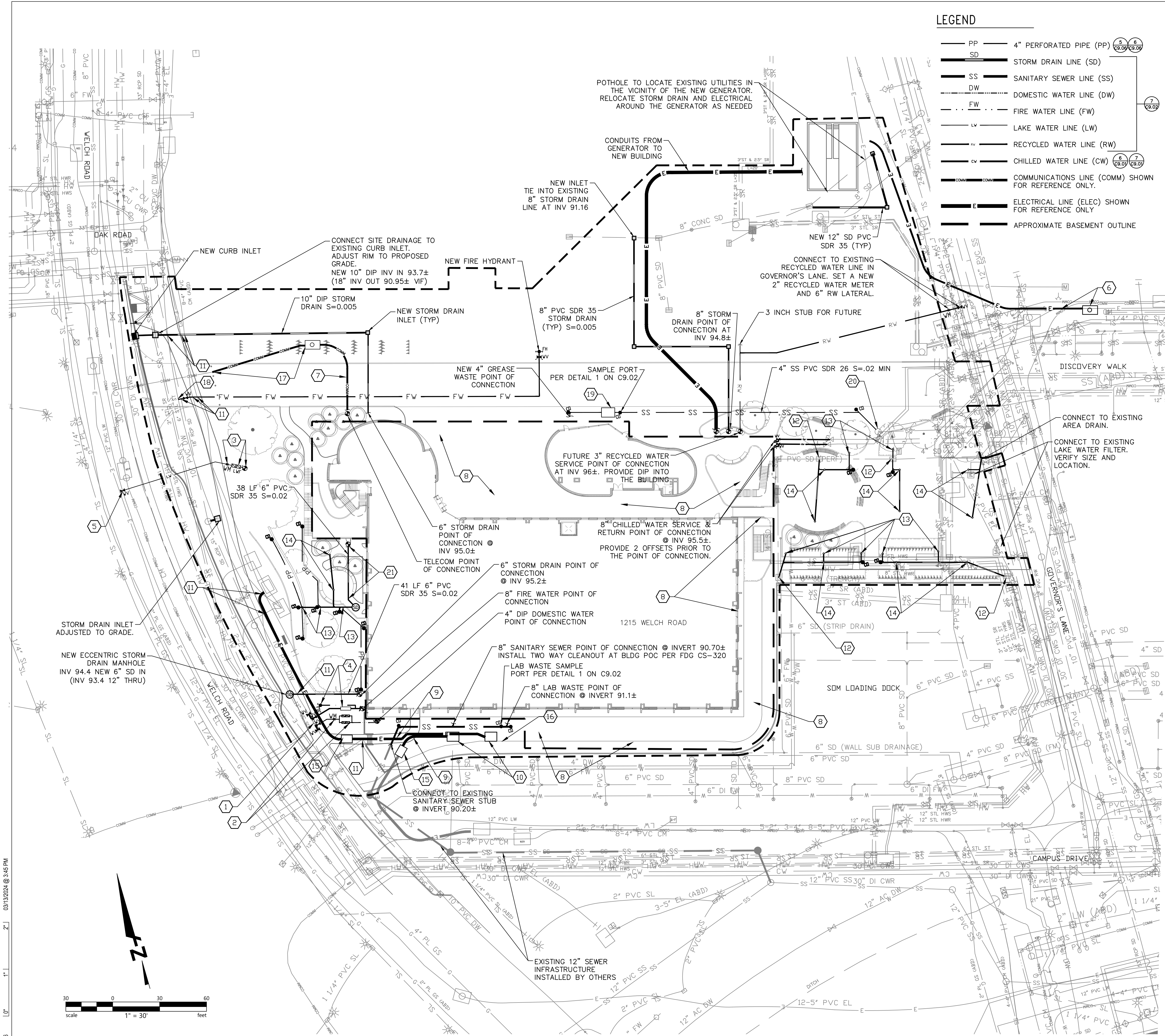
- SEE LANDSCAPE PLANS FOR DETAILS REGARDING TREE/LANDSCAPING PLANTING, SITE WALLS, AND ALL OTHER SITE FEATURES.
- ACTUAL QUANTITIES MAY VARY DUE TO FIELD CONDITIONS OR CONSTRUCTION TECHNIQUES. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL QUANTITIES BASED UPON APPROVED PLANS AND PERFORM THEIR OWN INDEPENDENT CALCULATIONS. CONTRACTOR SHALL USE THEIR OWN CALCULATED QUANTITIES FOR BID PURPOSES.
- THE EARTHWORK QUANTITIES SHOWN ARE IN-PLACE QUANTITIES AND HAVE BEEN ESTIMATED BY THE ENGINEER WITH THE FOLLOWING ASSUMPTIONS:
 - EARTHWORK QUANTITIES ARE COMPLETED TO TOP OF GRADE AND DO NOT ACCOUNT FOR THE THICKNESS OF THE FINISHED SURFACE SECTION.
 - EARTHWORK QUANTITIES DO NOT ACCOUNT FOR UTILITY TRENCHING AND SPOILS.
 - EARTHWORK QUANTITIES DO NOT ACCOUNT FOR EXCAVATION DEPTH FOR LANDSCAPING PLANTING SOILS.
 - EARTHWORK QUANTITIES DO NOT ACCOUNT FOR TOPSOIL AND PLANTING MATERIAL.
 - EARTHWORK QUANTITIES DO NOT ACCOUNT FOR FILL SHRINKAGE/SWELLING FACTORS.
 - EARTHWORK QUANTITIES DO NOT ACCOUNT FOR ANY NECESSARY OVEREXCAVATION.
 - EARTHWORK QUANTITIES UTILIZE THE BASEMENT FINISHED FLOOR WHEN CALCULATING CUT BENEATH THE PROPOSED BUILDING. DEPTHS OF STRUCTURAL ELEMENTS, INCLUDING FOOTINGS AND SLABS ARE NOT INCLUDED IN THE QUANTITIES.
- CUT AND FILL QUANTITIES UP TO 5' OUTSIDE OF THE BUILDING FOOTPRINT AND WITHIN THE BUILDING FOOTPRINT ARE CONSIDERED BUILDING EARTHWORK FOR PERMITTING PURPOSES. SEE EARTHWORK TABLE BELOW FOR MORE INFORMATION.

EARTHWORK TABLE

LOCATION	EARTHWORK QUANTITIES (C.Y.)		MAXIMUM DEPTH (FEET)	
	CUT	FILL	CUT	FILL
DRIVEWAY, ACCESS ROAD	0	403	N/A	2.5
BUILDING PAD	44,149	705	20.75	1
LANDSCAPING	2,423	533	17	1.5
OTHER IMPROVEMENTS	0	0	0	0
TOTAL	46,572	1,661	20.75	2.5



C SECTION C
V: 1"=5'
H: 1"=20'



LEGEND

PP	4" PERFORATED PIPE (PP)	
SD	STORM DRAIN LINE (SD)	
SS	SANITARY SEWER LINE (SS)	
DW	DOMESTIC WATER LINE (DW)	
FW	FIRE WATER LINE (FW)	
LW	LAKE WATER LINE (LW)	
RW	RECYCLED WATER LINE (RW)	
CW	CHILLED WATER LINE (CW)	
COMM	COMMUNICATIONS LINE (COMM) SHOWN FOR REFERENCE ONLY.	
E	ELECTRICAL LINE (ELEC) SHOWN FOR REFERENCE ONLY	
- - -	APPROXIMATE BASEMENT OUTLINE	

LEGEND (CONTINUED)

	STORM DRAIN MANHOLE (SDMH)		SANITARY SEWER MANHOLE (SSMH)
	STORM DRAIN INLET (SDDI)		CURB INLET
	AREA DRAIN (AD)		CLEANOUT (CO)
	WATER VALVE (WV)		DOMESTIC WATER BACKFLOW PREVENTER (BFP)
	FIRE WATER BACKFLOW PREVENTER (BFP)		LAKE WATER FILTER (LWF)
	WATER METER (WM)		FIRE HYDRANT (FH)
	FIRE DEPARTMENT CONNECTION (FDC)		POINT OF CONNECTION (POC)

UTILITY KEYNOTES

- 1 REBUILD A PORTION OF THE EXISTING 10" PVC DOMESTIC WATER MAIN AND PROVIDE 2 NEW DUCTILE IRON LATERALS PER STANFORD FDG STANDARDS.
- 2 NEW 4" DUAL DOMESTIC WATER BACKFLOW PREVENTERS AND 2" WATER METER. SEE DETAILS 3, 6, AND 7 ON C9.00.
- 3 NEW 3" LAKE WATER METER, LAKE WATER FILTER & ENCLOSURE. SEE DETAILS 3, 4, AND 5 ON C9.00. CONNECT TO SITE IRRIGATION UPSTREAM OF LAKE WATER FILTER.
- 4 NEW FIRE DEPARTMENT CONNECTION AND 8" BACKFLOW PREVENTER. SEE DETAIL 2 ON C9.01.
- 5 TAP EXISTING LAKE WATER MAIN LINE AND PROVIDE A NEW LATERAL INTO THE SITE
- 6 NEW VAULT AND CONDUIT FOR CCSR GENERATOR RELOCATION. SEE ELECTRICAL SITE PLAN FOR MORE INFORMATION.
- 7 (4)-4" CONDUIT FROM RELOCATED VAULT 25 TO THE BUILDING. VERIFY QUANTITY OF CONDUIT WITH STANFORD IT.
- 8 LEVEL 1 AREA OVER STRUCTURE SHALL HAVE PLUMBING DRAINS AND WATERPROOFING. CONNECT STORMWATER TO BUILDING PLUMBING. DESIGN BY PLUMBING DESIGN BUILD CONTRACTOR.
- 9 (2) 5" CONDUIT AND (1) 2" CONDUIT IN EACH DUCTBANK. 6 CONDUIT TOTAL IN 2 DUCTBANKS.
- 10 (2) NEW PAD MOUNTED TRANSFORMERS. SEE ELECTRICAL DRAWINGS. PROVIDE CLEAR AND LEVEL WORKING SPACE PER PG&E GREENBOOK STANDARDS.
- 11 POT HOLE AND VERIFY ELEVATION OF EXISTING UTILITY AT NEW PIPE CROSSING.
- 12 CONNECT TO EXISTING DRAINAGE FEEDING DOWN TO THE LOADING DOCK. VERIFY TIE-IN ELEVATION AND PIPE SIZE.
- 13 CONNECT TO NEW LANDSCAPE SUBDRAINAGE.
- 14 NEW AREA DRAIN AND 6" PVC SDR 35 STORM DRAIN PIPE (TYP). SLOPE AT 1% MINIMUM TO OUTFALL.
- 15 NEW 5'X7' HANDHOLE FOR UNDERGROUND ELECTRICAL SERVICE. SEE DETAILS 1-3 ON C9.06 FOR MORE INFORMATION.
- 16 SEE ELECTRICAL DRAWINGS FOR SECONDARY CONDUIT ROUTING FROM TRANSFORMER TO THE BUILDING.
- 17 RELOCATE EXISTING VAULT 25. INSTALL A NEW VAULT PER STANFORD FDG CM-12. ASSOCIATED CONDUIT FEEDS FROM VAULT 24 IN WELCH ROAD SHALL BE INTERCEPTED AND EXTENDED TO THE PROPOSED VAULT LOCATION.
- 18 HOT TAP EXISTING 10" PVC DOMESTIC WATER LINE PER DETAIL 1 ON C9.00. PROVIDE A NEW 6" LATERAL TO THE PROPOSED FIRE HYDRANT.
- 19 NEW 1,200 GALLON GREASE INTERCEPTOR. SEE DETAIL 4 ON C9.05 FOR MORE INFORMATION.
- 20 CONNECT 4" SEWER LINE FROM GREASE INTERCEPTOR TO EXISTING MANHOLE AT INVERT 87.65±.
- 21 NEW STORM DRAIN MANHOLE COLLECTING SKY GARDEN DRAINAGE. GRAVITY FLOW TO PLUMBING POINT OF CONNECTION AT INVERT 73.50. SEE PLUMBING PLANS FOR CONTINUATION.

GENERAL NOTES

1. STORM DRAIN MARKINGS "NO DUMPING - FLOWS TO BAY" ARE REQUIRED TO BE INSTALLED ON ALL NEW STORM DRAIN INLETS PER SPEC SECTION 33 40 00.

ZGF
ZIMMER GUNSUL FRASCA ARCHITECTS LLP

DENVER
LOS ANGELES
NEW YORK
PORTLAND
SEATTLE
WASHINGTON, DC
VANCOUVER, BC

1223 SW Washington Street
Suite 200
Portland, OR 97205
503.224.3860
www.zgf.com

ZGF Project Number P26717.wrss
Consultant

BKF 7901 Stoneridge Drive, Suite 360
Pleasanton, CA 94588
(925) 396-7700
www.bkf.com

Full Design Team Roster on Sheet A0.02
Client and Project Information

Stanford MEDICINE

STANFORD UNIVERSITY
SCHOOL OF MEDICINE

1215 Welch Rd
Stanford, CA 94305

Original Issue
ASA SUBMITTAL 12.06.2024

Revisions

Key Plan and Orientation

Sheet Status

NOT FOR CONSTRUCTION

Sheet Title

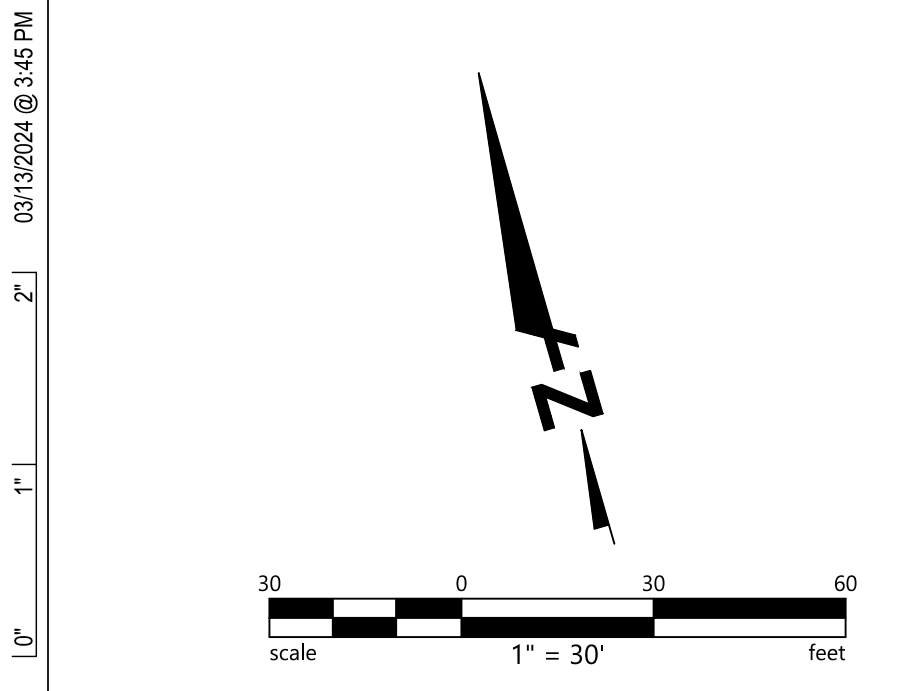
UTILITY PLAN

Sheet Number

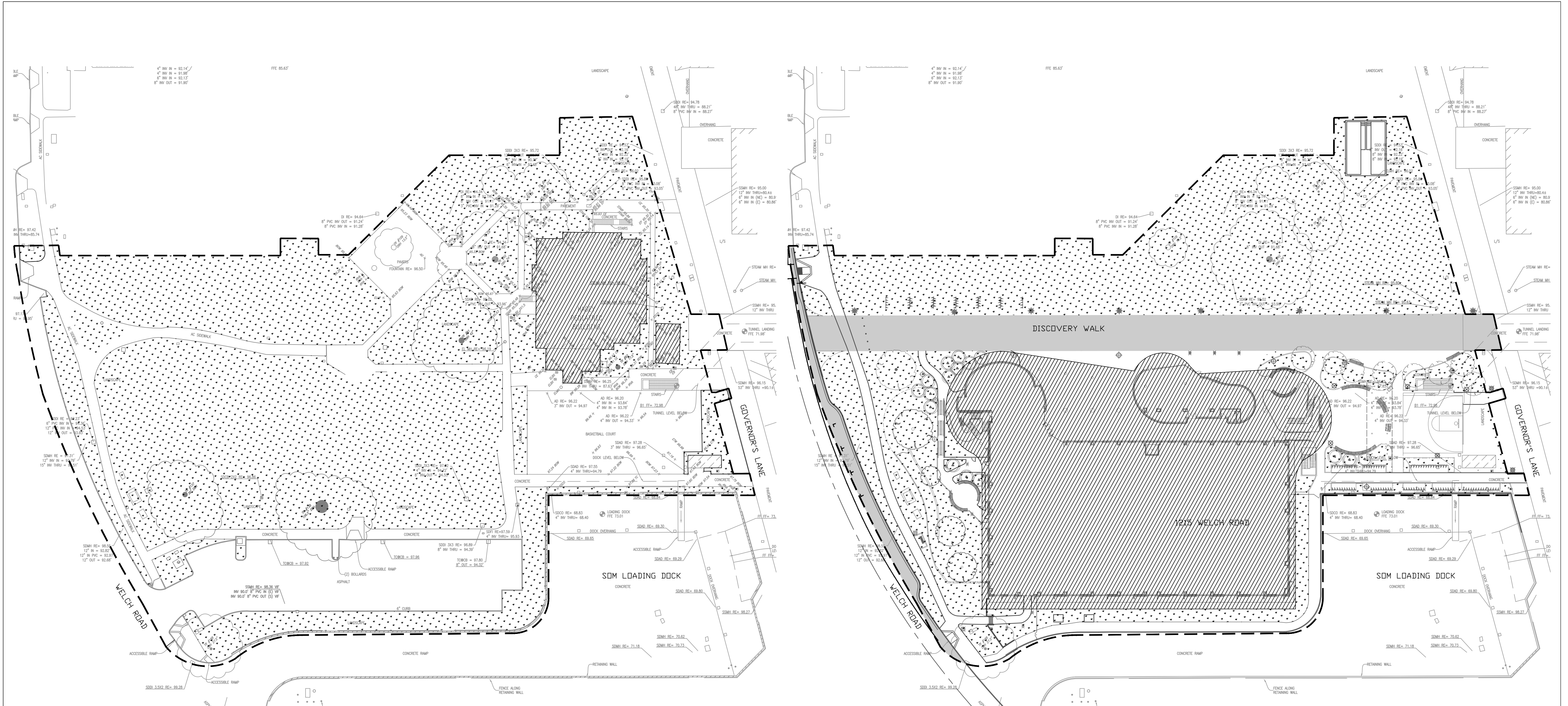
ASA-C4.00

Current Issue
ASA SUBMITTAL

Current Issue Date
12.06.2024



Sheet Size: 24 x 36
03/13/2024 @ 3:45 PM



LEGEND

- ROOF AREA
- NON-ROOF IMPERVIOUS AREA
- PERVIOUS AREA

EXISTING IMPERVIOUS/PERVIOUS AREA

IMPERVIOUS AREA = 62,358 SF
ROOF AREA = 9,098 SF
NON-ROOF IMPERVIOUS = 53,260 SF
TOTAL IMPERVIOUS = 62,358 SF

STORM WATER CALCULATIONS:
TOTAL SITE AREA = 157,429 SF
IMPERVIOUS AREA = 62,358 SF
PERVIOUS AREA = 95,071 SF
% IMPERVIOUS AREA = 39.6%

Project Name: **1215 Welch Road** Watershed: **San Francisquito Creek**

	PROJECT IMPERVIOUS AREA SUMMARY				
	Regulated Impervious ¹ (SF)	Unregulated Impervious ² (SF)		Pervious area	Total Project Area
		Vehicular	Non-Vehicular		
Existing	0	0	0	0	0
Proposed	0	0	0	0	0
As-built					

	Vehicular (SF)	Non-Vehicular (SF)
In-Lieu Credit Used ³ (SF)	18,023	76,823
As-Built		
In-Lieu Credit Used ³ (SF)		

1. Regulated Impervious is all new or replace impervious areas required to be treated per MRP section C.3. It also includes existing impervious area already requiring treatment or existing impervious area that is required to be treated under the 50% rule.
2. Unregulated Impervious is existing impervious that is not required to be treated per MRP section C.3. It also includes new impervious area that is not required to be treated per MRP section C.3.
3. In-Lieu Credit Used is the portion of regulated impervious that is meeting MRP section C.3 using in-lieu credits from regional stormwater treatment facilities.

HYDROMODIFICATION MANAGEMENT (HM) SUMMARY

THE PROJECT CREATES AND/OR REPLACES MORE THAN ONE ACRE OF IMPERVIOUS SURFACE, THE TOTAL POST-PROJECT IMPERVIOUS AREA IS GREATER THAN THE PRE-PROJECT IMPERVIOUS AREA, AND THE PROJECT IS LOCATED IN AN AREA OF HM APPLICABILITY (GREEN AREA) ON THE HM APPLICABILITY MAP.

THEREFORE, THE PROJECT MUST IMPLEMENT HM REQUIREMENTS.

THE WEST CAMPUS STORMWATER CAPTURE FACILITY (COUNTY FILE NO. 10689-18C3) HAS BEEN DESIGNED TO PROVIDE HYDROMODIFICATION (HM) FOR ALL PROJECTS IN THE SAN FRANCISQUITO CREEK. THE PROJECT USES 32,488 SF** OF HYDROMODIFICATION CAPACITY FROM THE WEST CAMPUS STORMWATER CAPTURE FACILITY.

** NET INCREASE IN IMPERVIOUS AREA (32,488 SF) = PROPOSED IMPERVIOUS AREA (94,846 SF) - EXISTING IMPERVIOUS AREA (62,358 SF)

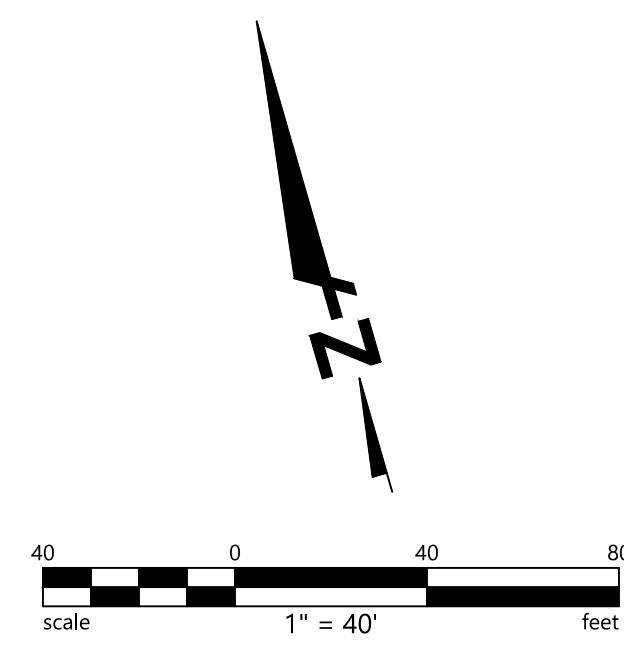
LEGEND

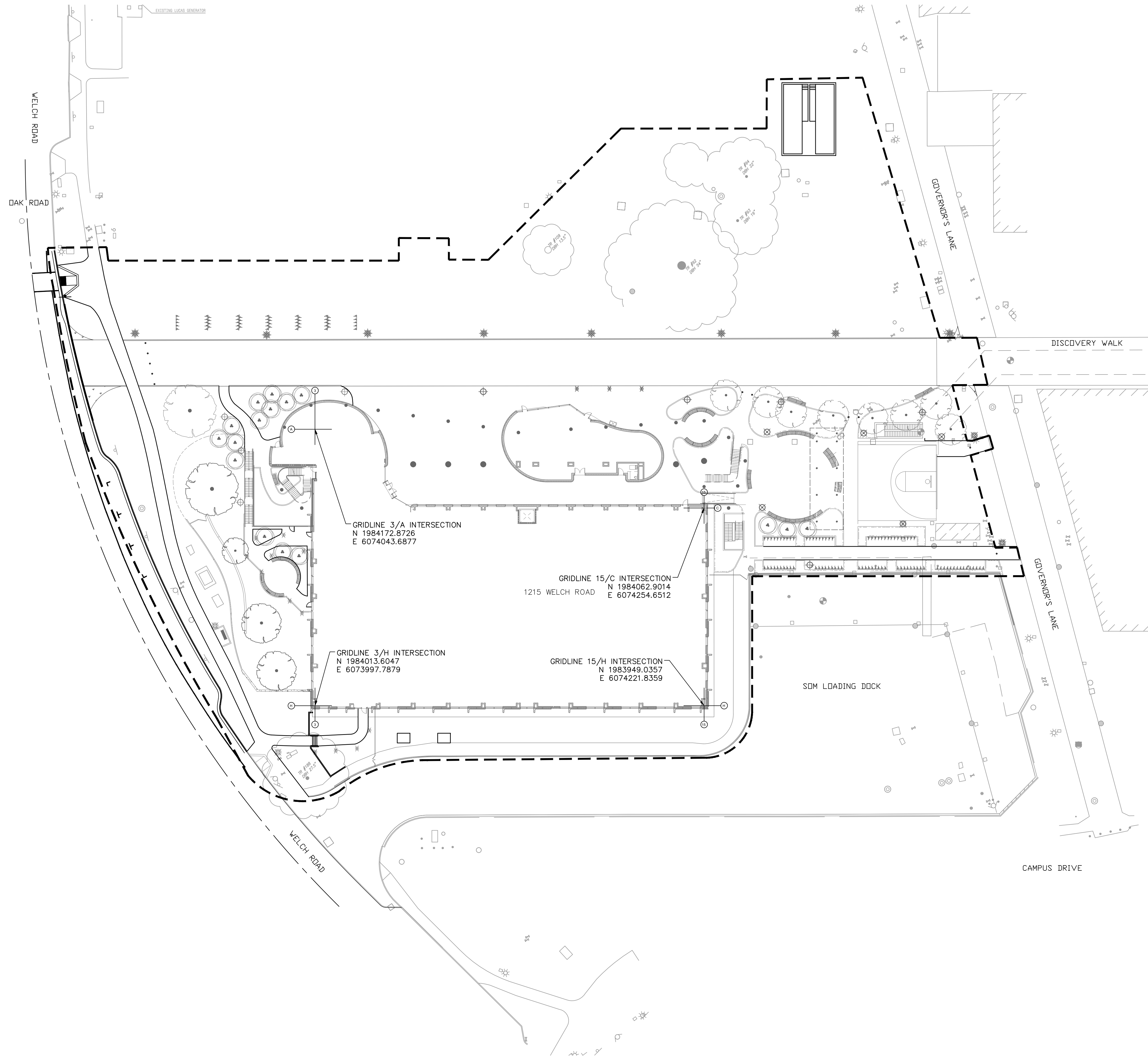
- ROOF AREA
- NON-VEHICULAR IMPERVIOUS AREA
- VEHICULAR IMPERVIOUS AREA
- PERVIOUS AREA

PROPOSED IMPERVIOUS/PERVIOUS AREA

IMPERVIOUS AREA = 94,846 SF
ROOF AREA = 11,289 SF
VEHICULAR AREA = 18,023 SF
NON-VEHICULAR AREA = 23,554 SF
TOTAL IMPERVIOUS = 94,846 SF

STORM WATER CALCULATIONS:
TOTAL SITE AREA = 157,429 SF
IMPERVIOUS AREA = 94,846 SF
PERVIOUS AREA = 62,583 SF
% IMPERVIOUS AREA = 60.2%





BASIS OF BEARINGS

THE COORDINATES AND BEARINGS SHOWN ARE BASED ON THE NORTH AMERICAN DATUM OF 1983 (NAD83), EPOCH 1991.35, CALIFORNIA ZONE 3, AS SHOWN ON THE RECORD OF SURVEY OF THE STANFORD MASTER SURVEY CONTROL NETWORK. FILED IN BOOK 747 OF MAPS AT PAGE 40, SANTA CLARA COUNTY RECORDS.

BASIS OF ELEVATIONS

THE ELEVATIONS SHOWN ARE BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD29), AS SHOWN ON THE RECORD OF SURVEY OF THE STANFORD MASTER SURVEY CONTROL NETWORK. FILED IN BOOK 747 OF MAPS AT PAGE 40, SANTA CLARA COUNTY RECORDS.

BENCHMARKS

S-4 - RESET: FOUND 2" BRASS DISK W/ PUNCH MARK, STAMPED "STANDARD 4, LS 5237", IN MONUMENT WELL AT THE INTERSECTION OF THE NORTH LANE OF CAMPUS DR. WEST AND PANAMA ST. (NO MAP OF RECORD)
NORTHING - 1983810.079
EASTING - 6074375.271
ELEVATION - 98.17

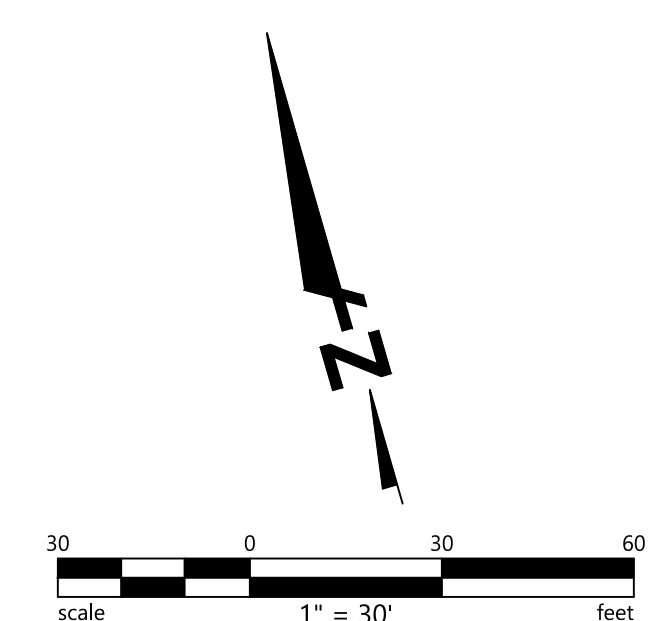
S-111: FOUND 2 1/2" BRASS DISK W/ PUNCH MARK, STAMPED "S-111, LS 5797", IN MONUMENT WELL IN AC PATH WEST OF THE INTERSECTION OF THE NORTH LANE CAMPUS DR. WEST AND WELSH RD.
NORTHING - 1983752.666
EASTING - 6074019.724
ELEVATION - 101.22

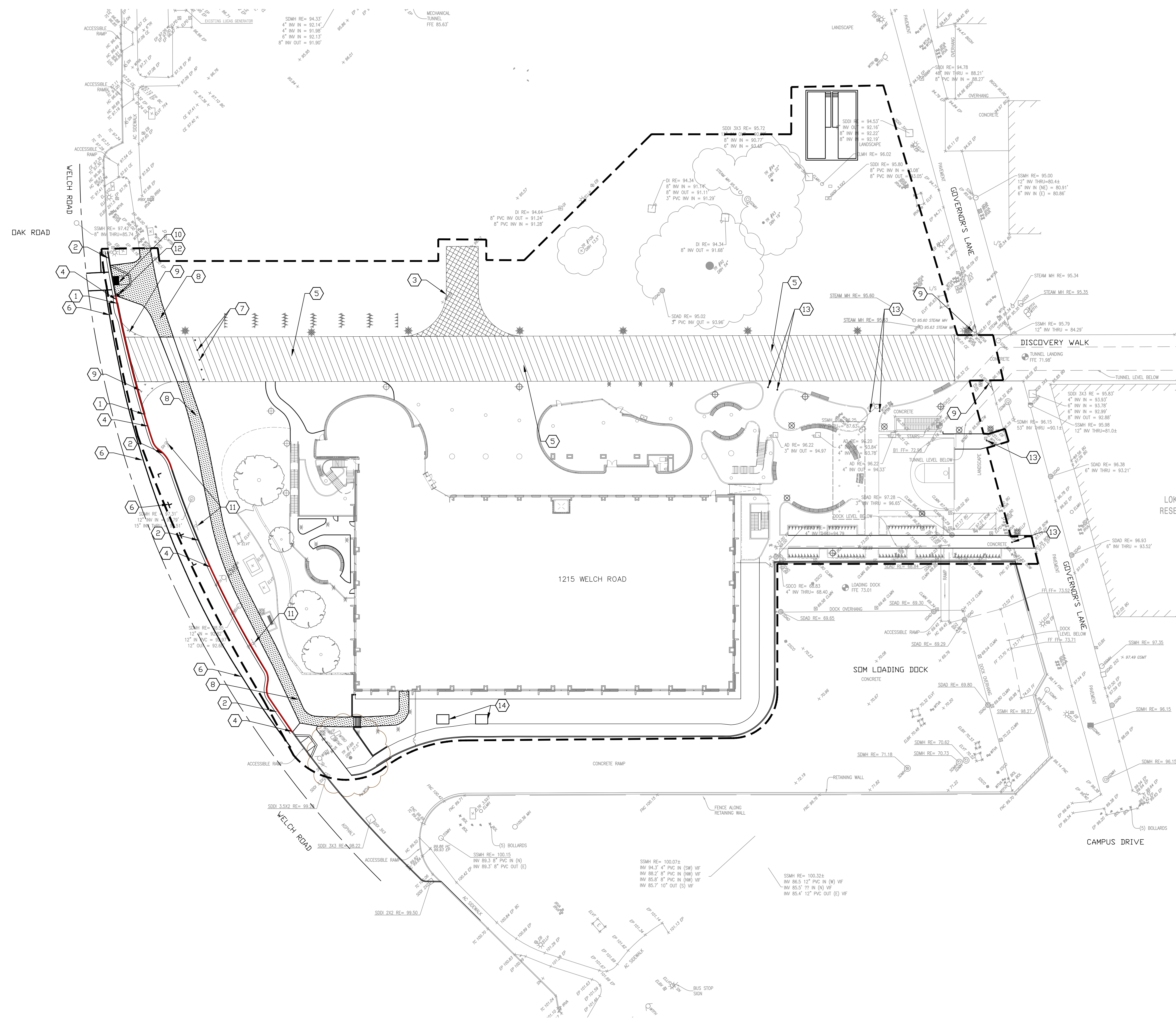
NOTES

UNITS ARE IN U.S. SURVEY FEET AND DISPLAYED IN FEET AND DECIMALS THEREOF.

LEGEND

--- LIMIT OF WORK





LEGEND

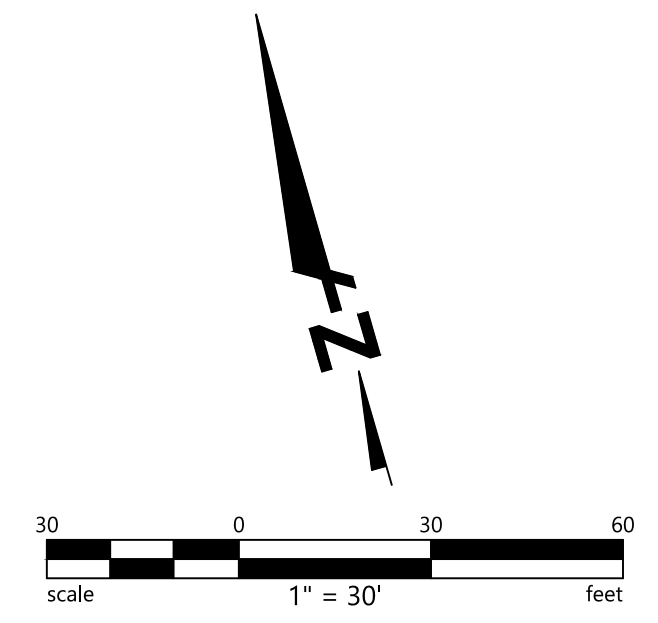
- FIRE LANE. FINISHED SURFACE SHALL BE MADE OF AN ALL WEATHER MATERIAL COMPLIANT WITH 75,000 LB LOAD CAPACITY.
- NEW TURF BLOCK (1/10.00)
- NEW ASPHALT WALK (1/9.00)
- TEMPORARY ASPHALT PAVING FOR FIRE TRUCK TURNAROUND (1/10.00)
- RED CURB PAINT. "NO PARKING. FIRE LANE" (1/9.00)

KEYNOTES

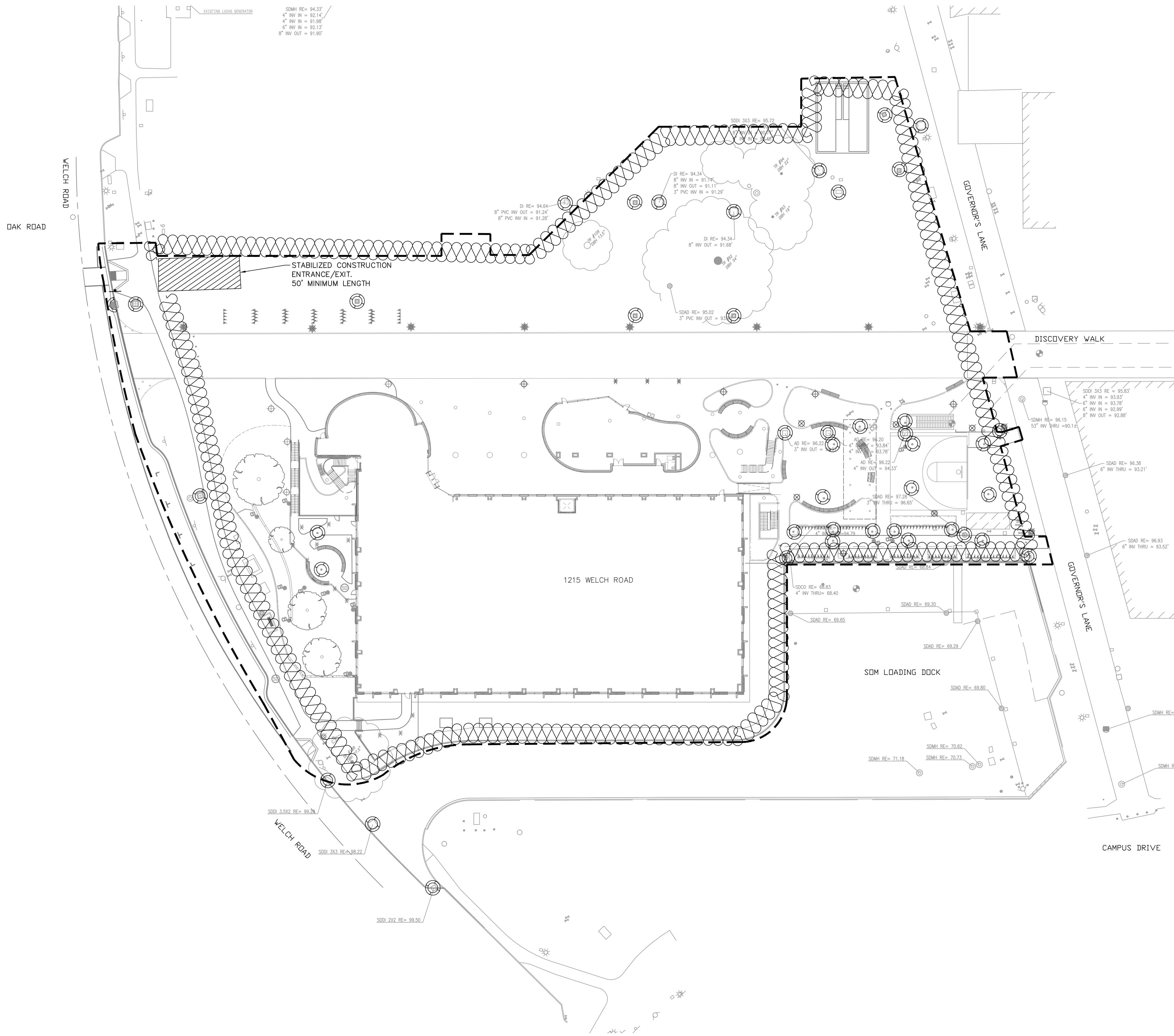
- ① CHAMFERED CURB (1/9.00)
- ② 6" CURB AND GUTTER (1/9.00)
- ③ TEMPORARY ASPHALT PAVING FOR FIRE TRUCK TURNAROUND. SEE C10.00 FOR DIMENSIONS.
- ④ RED CURB PAINT. NO PARKING - FIRE LANE (1/9.00)
- ⑤ FIRE LANE. FINISHED SURFACE SHALL BE MADE OF AN ALL WEATHER MATERIAL COMPLIANT WITH 75,000 LB LOAD CAPACITY. PROVIDE A 6" FLUSH CONCRETE CURB EDGE RESTRAINT WHERE ADJACENT TO LANDSCAPING.
- ⑥ 4" WIDE WHITE STRIPE FOR PARKING STALLS AND BIKE LANE
- ⑦ BOLLARDS AT ENTRANCE TO FIRE LANE (1/9.00)
- ⑧ NEW ASPHALT WALKWAY (1/9.00)
- ⑨ NEW TURF BLOCK (1/10.00)
- ⑩ NEW CURB RAMP PER STANFORD FDG CS-292-02 (1/9.00)
- ⑪ EXISTING SIGN TO REMAIN. PROTECT IN PLACE.
- ⑫ RELOCATE EXISTING STOP SIGN WITH THE CURBLINE REALIGNMENT.
- ⑬ NEW METAL FIXED BOLLARD. (1/9.00)
- ⑭ (2) NEW PAD MOUNTED TRANSFORMERS. SEE ELECTRICAL DRAWINGS. CLEAR AND LEVEL WORKING SPACE SHALL BE STABLE, FINISHED LANDSCAPING.

GENERAL NOTES


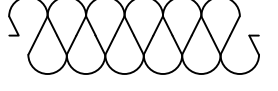

1. SEE LANDSCAPE PLANS FOR FINISHED MATERIALS IN AREAS NOT IDENTIFIED ON THESE PLANS. SEE LANDSCAPE PLANS FOR FINISH COLOR AND JOINT LAYOUTS.
2. CONTRACTOR SHALL POWER WASH EXISTING PAVING TO REMAIN.
3. ANY EXISTING STRIPING REMOVED OR DAMAGED DUE TO CONSTRUCTION SHALL BE REPLACED IN KIND.
4. ALL SIGNS AND SIGN CODE REFERENCES SHALL BE IN ACCORDANCE WITH THE CALIFORNIA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) EDITION 2014
5. ALL PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH CALTRANS STANDARD PLANS, 2018 EDITION



Sheet Size: 24 x 36
03/13/2024 @ 3:45 PM

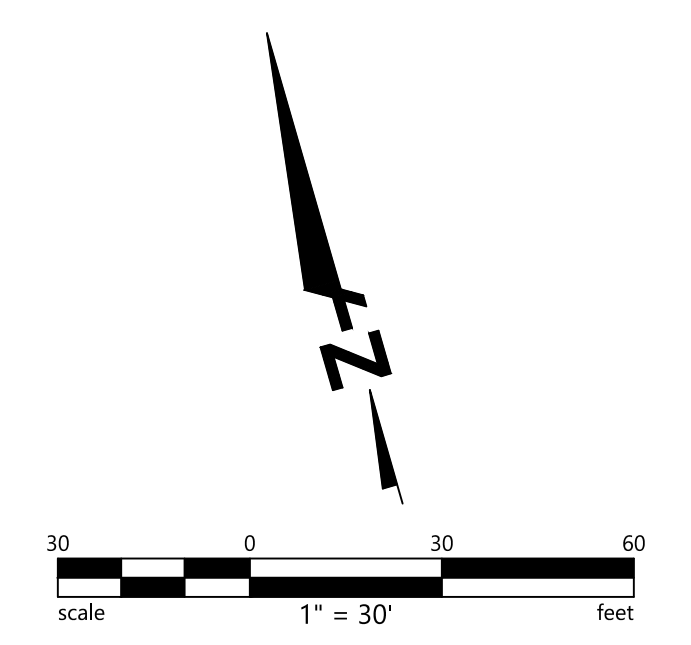


LEGEND

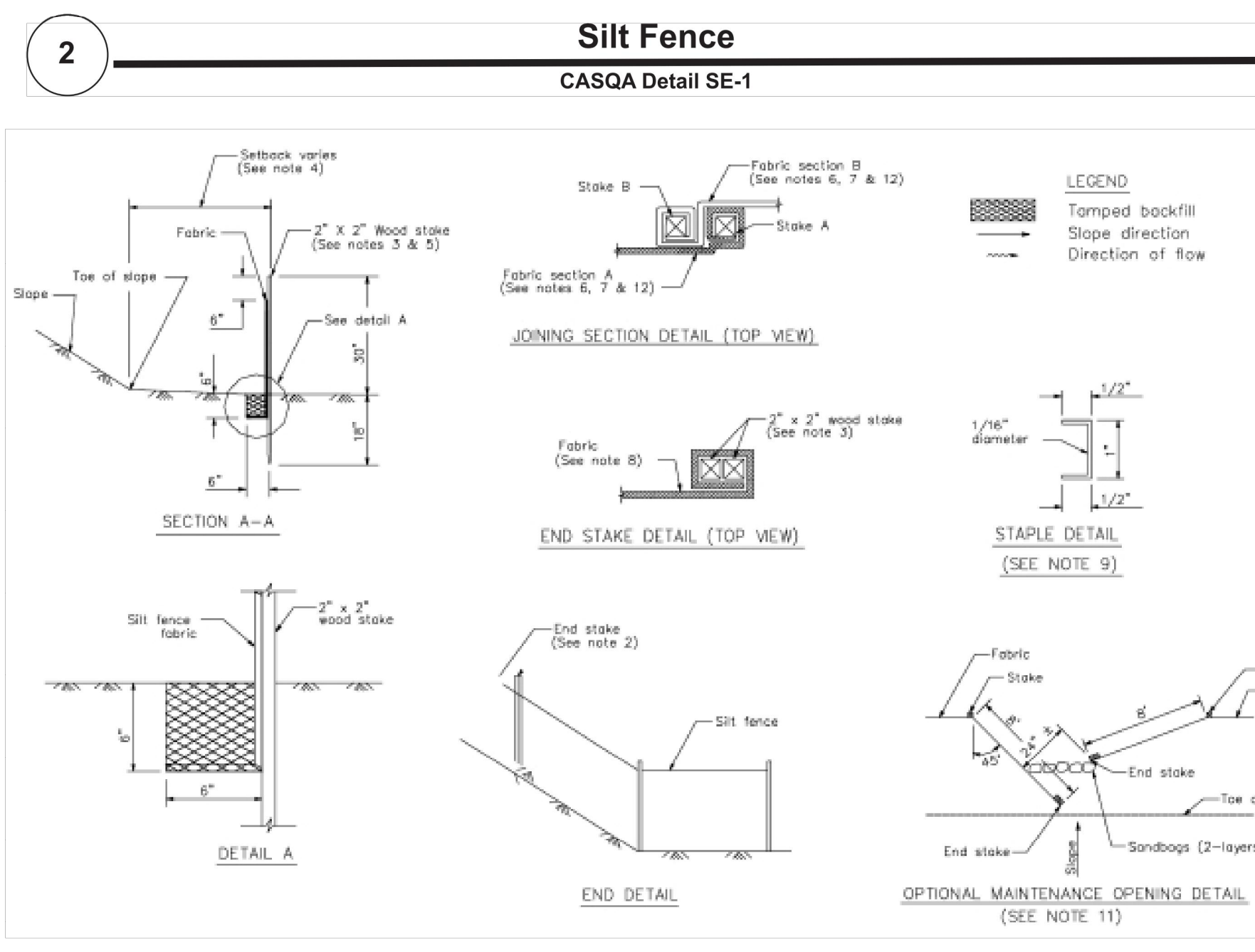
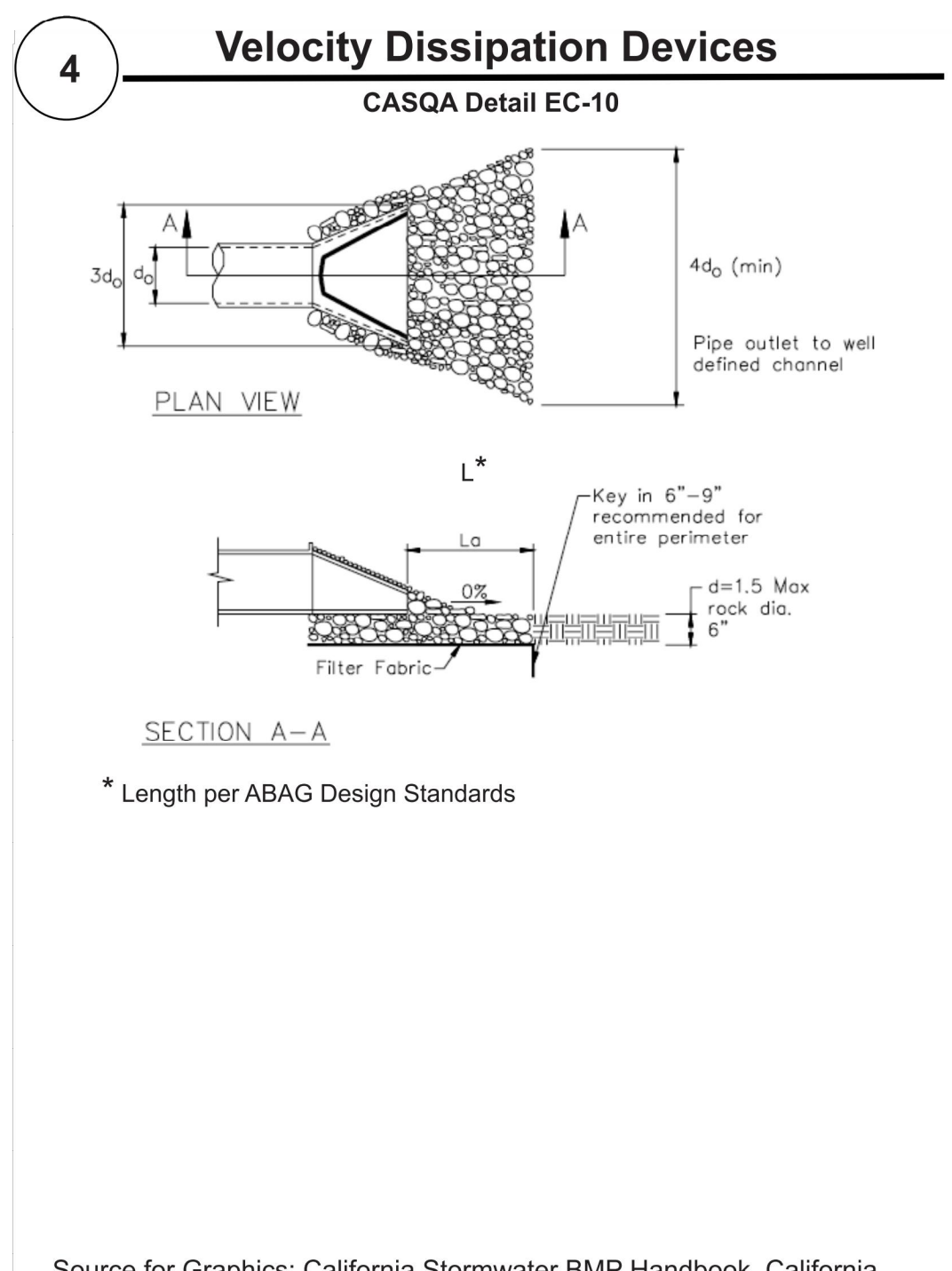
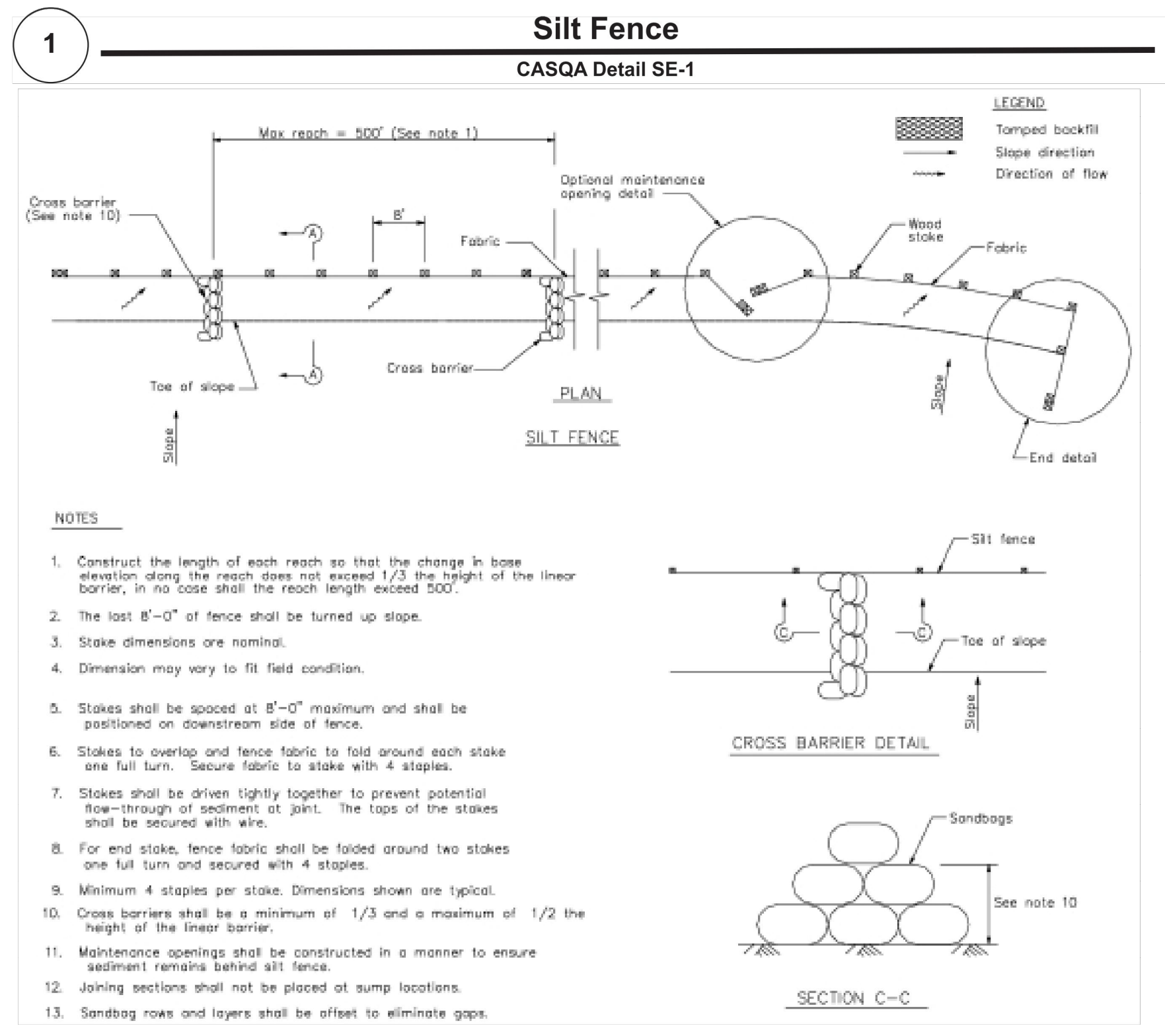
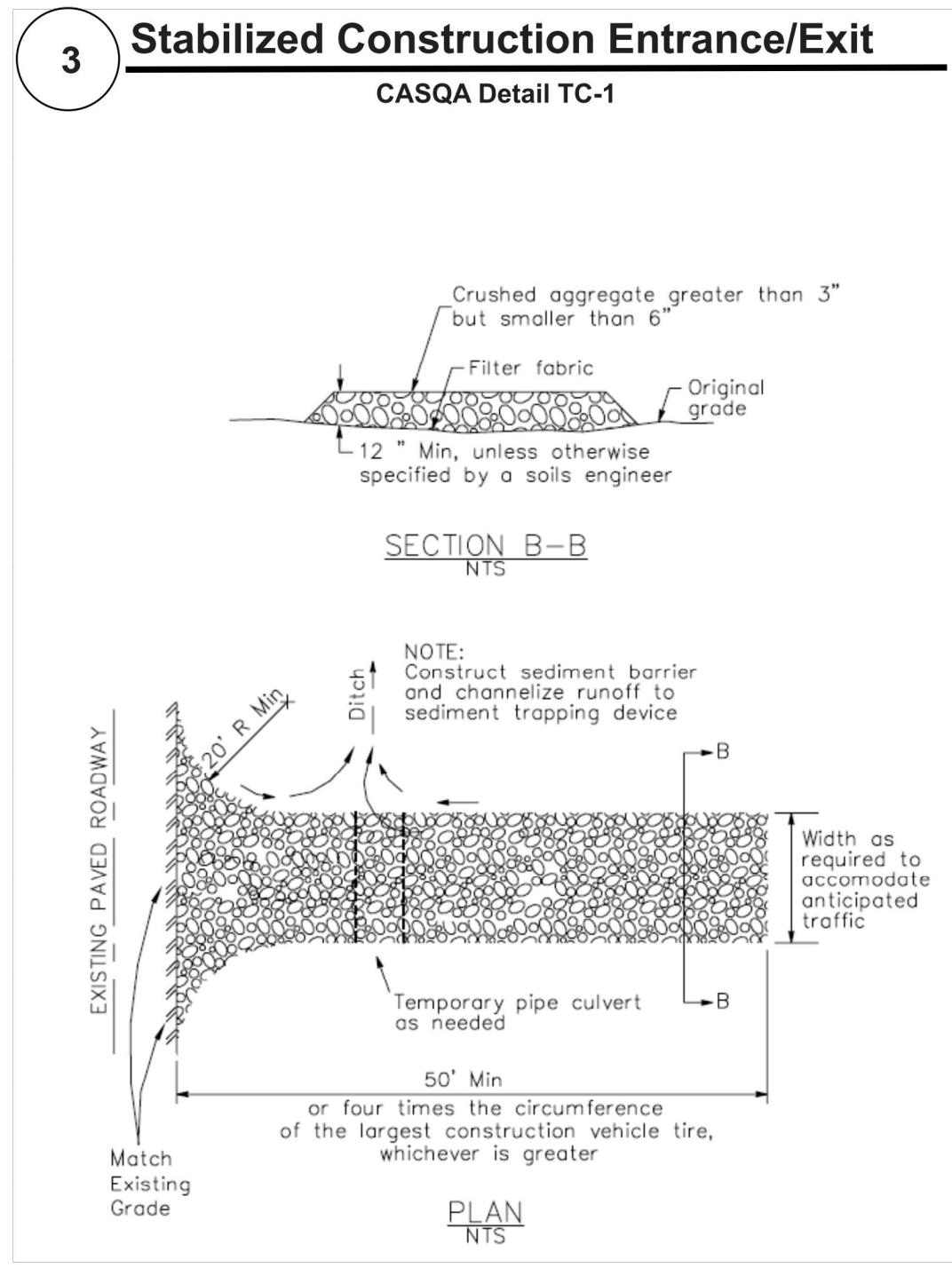
-  STORM DRAIN INLET PROTECTION PER CASQA DETAIL SE-10 4 BMP-2
-  FIBER ROLL PER CASQA DETAIL SE-5 1 BMP-2
-  LIMIT OF WORK

NOTES

1. SEE COUNTY OF SANTA CLARA EROSION CONTROL TEMPLATES BMP1 AND BMP2 FOR BEST MANAGEMENT PRACTICES AND EROSION CONTROL DETAILS.
2. FIBER ROLLS SHALL BE INSTALLED AROUND THE PERIMETER ALONG THE CONSTRUCTION FENCE.
3. THIS SHEET IS INTENDED FOR EROSION CONTROL ONLY.
4. THIS PLAN MAY NOT COVER ALL THE SITUATIONS THAT ARISE DURING CONSTRUCTION DUE TO UNANTICIPATED FIELD CONDITIONS. IN GENERAL, THE CONTRACTOR IS RESPONSIBLE FOR KEEPING ANY SEDIMENT FROM LEAVING THE SITE. FIBER ROLLS, SAND BAGS AND ADDITIONAL SILT FENCES SHALL BE USED BY THE CONTRACTOR ON AN AS NEEDED BASIS TO INHIBIT SILT FROM LEAVING THE SITE AND ENTERING THE STORM DRAIN SYSTEM. ALL EXISTING, TEMPORARY OR PERMANENT CATCH BASINS SHALL USE THE SEDIMENT BARRIERS SHOWN ON THIS PLAN.
5. THE PROJECT DISTURBS OVER 1 ACRE OF SOIL AND THEREFORE REQUIRES COVERAGE UNDER THE CONSTRUCTION GENERAL PERMIT (ORDER WQ 2022-057-DWG NPDES NO. CAS000002). THE WASTE DISCHARGE IDENTIFICATION (WDID) NUMBER IS TBD AND WILL BE PROVIDED ONCE THE SWPPP IS FILED WITH THE STATE WATER BOARD. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING QUALIFIED SWPPP PRACTITIONER (QSP) AND QUALIFIED SWPPP DEVELOPER (QSD) CONSTRUCTION MONITORING SERVICES UNTIL THE NOTICE OF TERMINATION (NOT) IS APPROVED BY THE STATE WATER BOARD.



Project Information



STANDARD BEST MANAGEMENT PRACTICE NOTES

- Solid and Demolition Waste Management:** Provide designated waste collection areas and containers on site away from streets, gutters, storm drains, and waterways, and arrange for regular disposal. Waste containers must be watertight and covered at all times except when waste is deposited. Refer to Erosion & Sediment Control Field Manual, 4th Edition (page C3) or latest.
- Hazardous Waste Management:** Provide proper handling and disposal of hazardous wastes by a licensed hazardous waste material hauler. Hazardous wastes shall be stored and properly labeled in sealed containers constructed of suitable materials. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages C-5 to C-6) or latest.
- Spill Prevention and Control:** Provide proper storage areas for liquid and solid materials, including chemicals and hazardous substances, away from streets, gutters, storm drains, and waterways. Spill control materials must be kept on site where readily accessible. Spills must be cleaned up immediately and contaminated soil disposed properly. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages C-7 to C-8, C-13 to C-14) or latest.
- Vehicle and Construction Equipment Service and Storage:** An area shall be designated for the maintenance, where on-site maintenance is required, and storage of equipment that is protected from stormwater run-on and runoff. Measures shall be provided to capture any waste oils, lubricants, or other potential pollutants and these wastes shall be properly disposed of off site. Fueling and major maintenance/repair, and washing shall be conducted off-site whenever feasible. Refer to Erosion & Sediment Control Field Manual, 4th Edition (page C9) or latest.
- Material Delivery, Handling and Storage:** In general, materials should not be stockpiled on site. Where temporary stockpiles are necessary and approved by the County, they shall be covered with secured plastic sheeting or tarp and located in designated areas near construction entrances and away from drainage paths and waterways. Barriers shall be provided around storage areas where materials are potentially in contact with runoff. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages C-11 to C-12) or latest.
- Handling and Disposal of Concrete and Cement:** When concrete trucks and equipment are washed on-site, concrete wastewater shall be contained in designated containers or in a temporary lined and watertight pit where wasted concrete can harden for later removal. If possible have concrete contractor remove concrete wash water from site. In no case shall fresh concrete be washed into the road right-of-way. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages C-15 to C-16) or latest.
- Pavement Construction Management:** Prevent or reduce the discharge of pollutants from paving operations, using measures to prevent run-on and runoff pollution and properly disposing of wastes. Avoid paving in the wet season and reschedule paving when rain is in the forecast. Residue from saw-cutting shall be vacuumed for proper disposal. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages C-17 to C-18) or latest.
- Contaminated Soil and Water Management:** Inspections to identify contaminated soils should occur prior to construction and at regular intervals during construction. Remediating contaminated soil should occur promptly after identification and be specific to the contaminant identified, which may include hazardous waste removal. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages C-19 to C-20) or latest.
- Sanitary/Septic Water Management:** Temporary sanitary facilities should be located away from drainage paths, waterways, and traffic areas. Only licensed sanitary and septic waste haulers should be used. Secondary containment should be provided for all sanitary facilities. Refer to Erosion & Sediment Control Field Manual, 4th Edition (page C-21) or latest.
- Inspection & Maintenance:** Areas of material and equipment storage sites and temporary sanitary facilities must be inspected weekly. Problem areas shall be identified and appropriate additional and/or alternative control measures implemented immediately, within 24 hours of the problem being identified.

STANDARD EROSION CONTROL NOTES

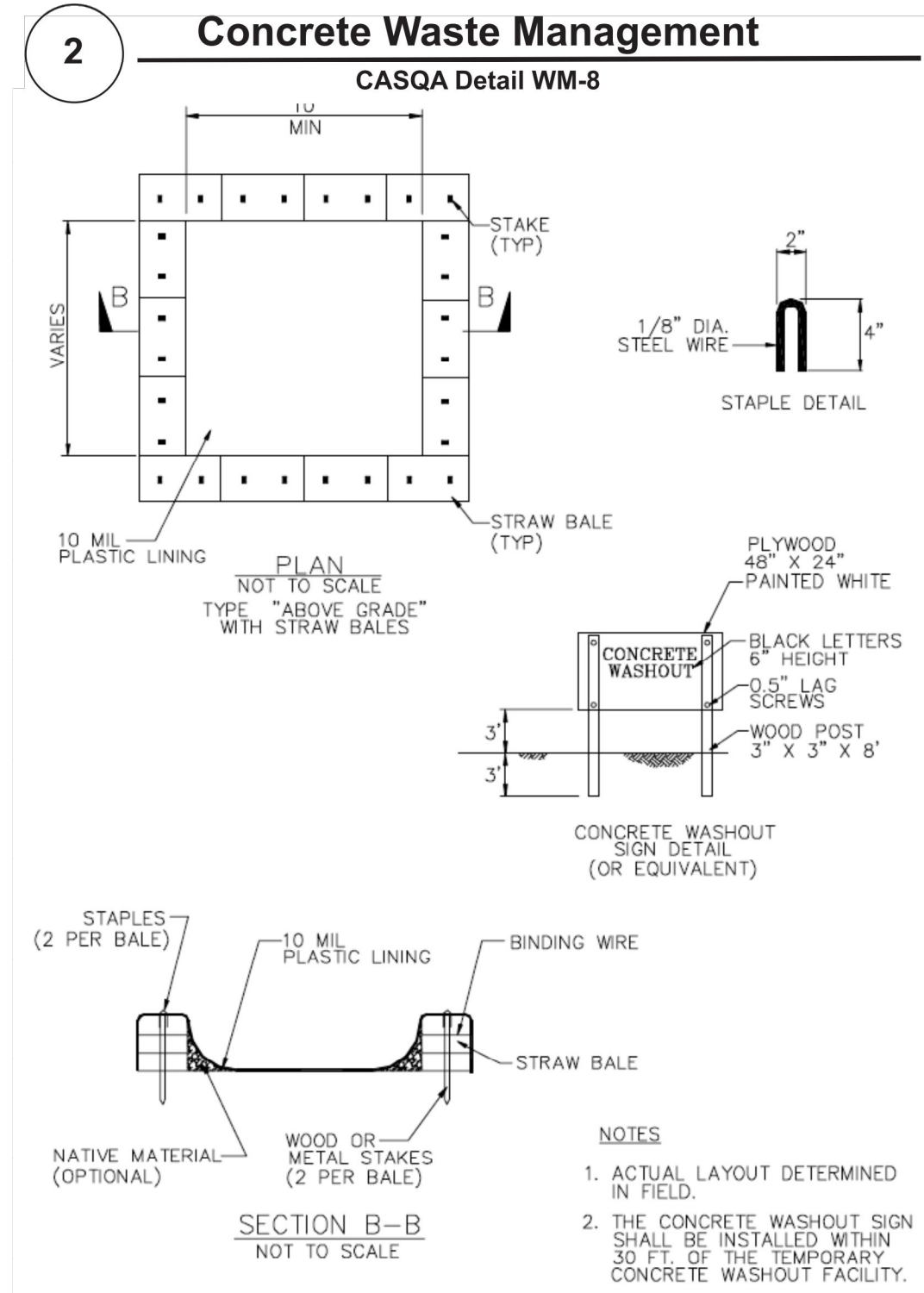
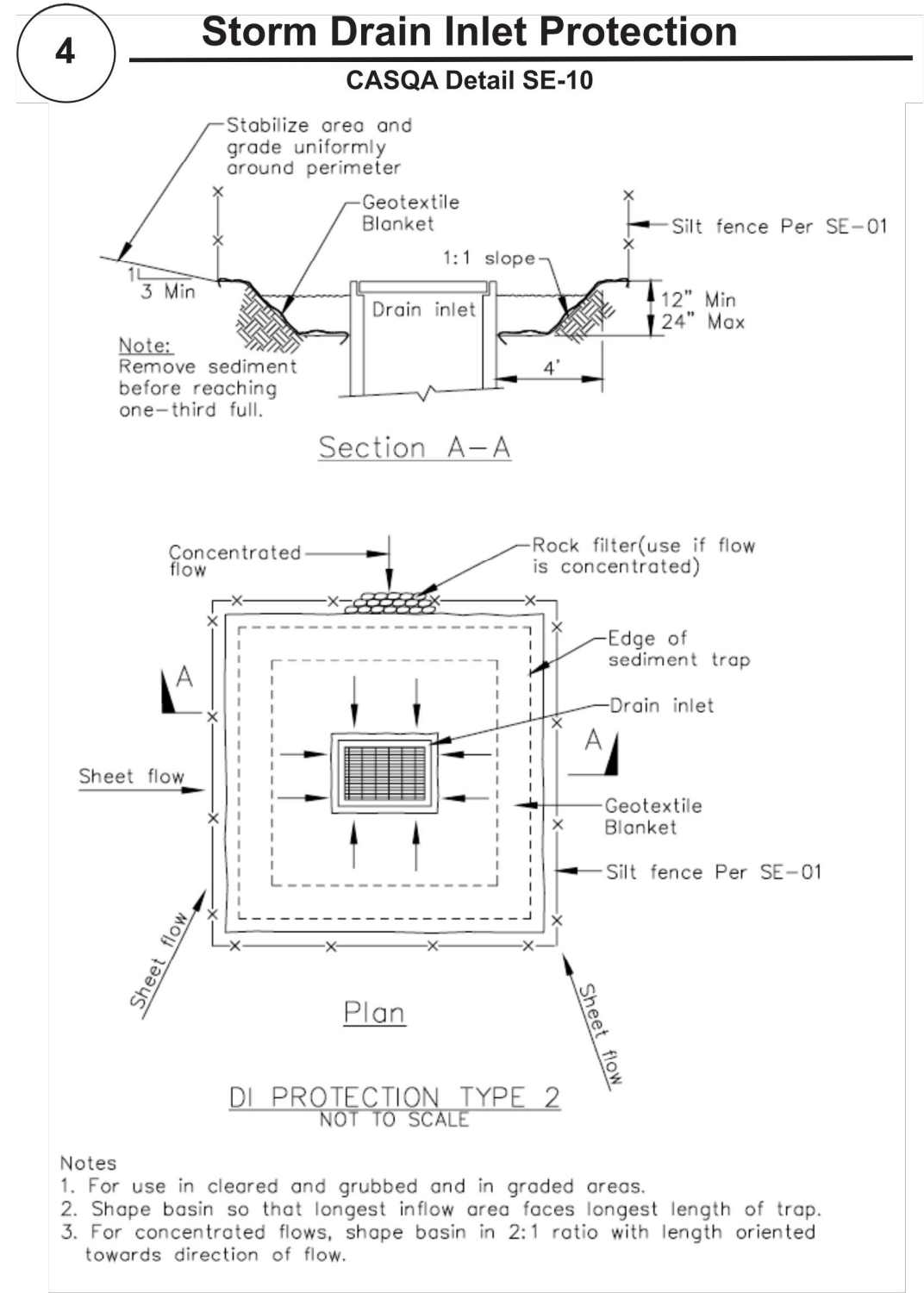
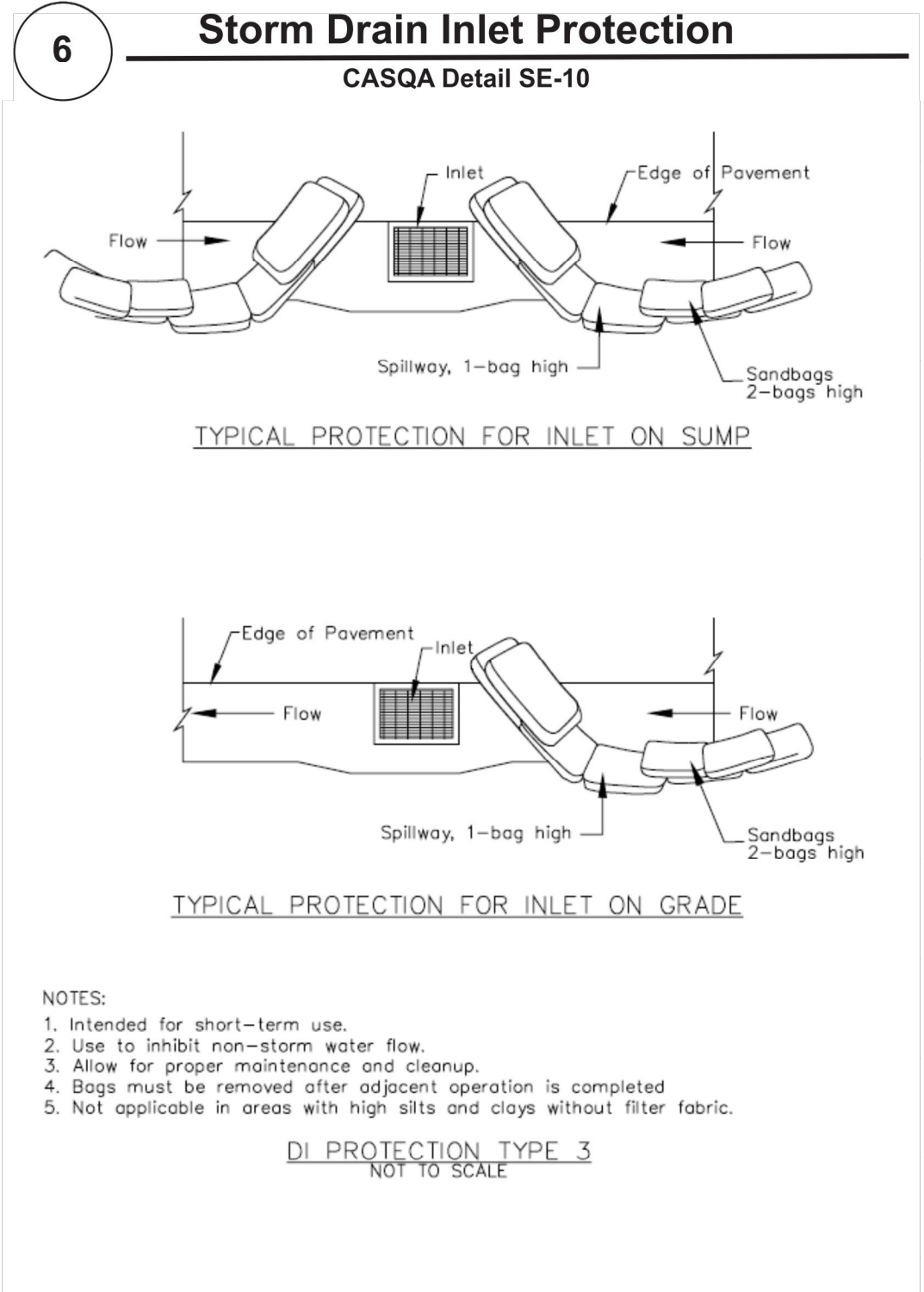
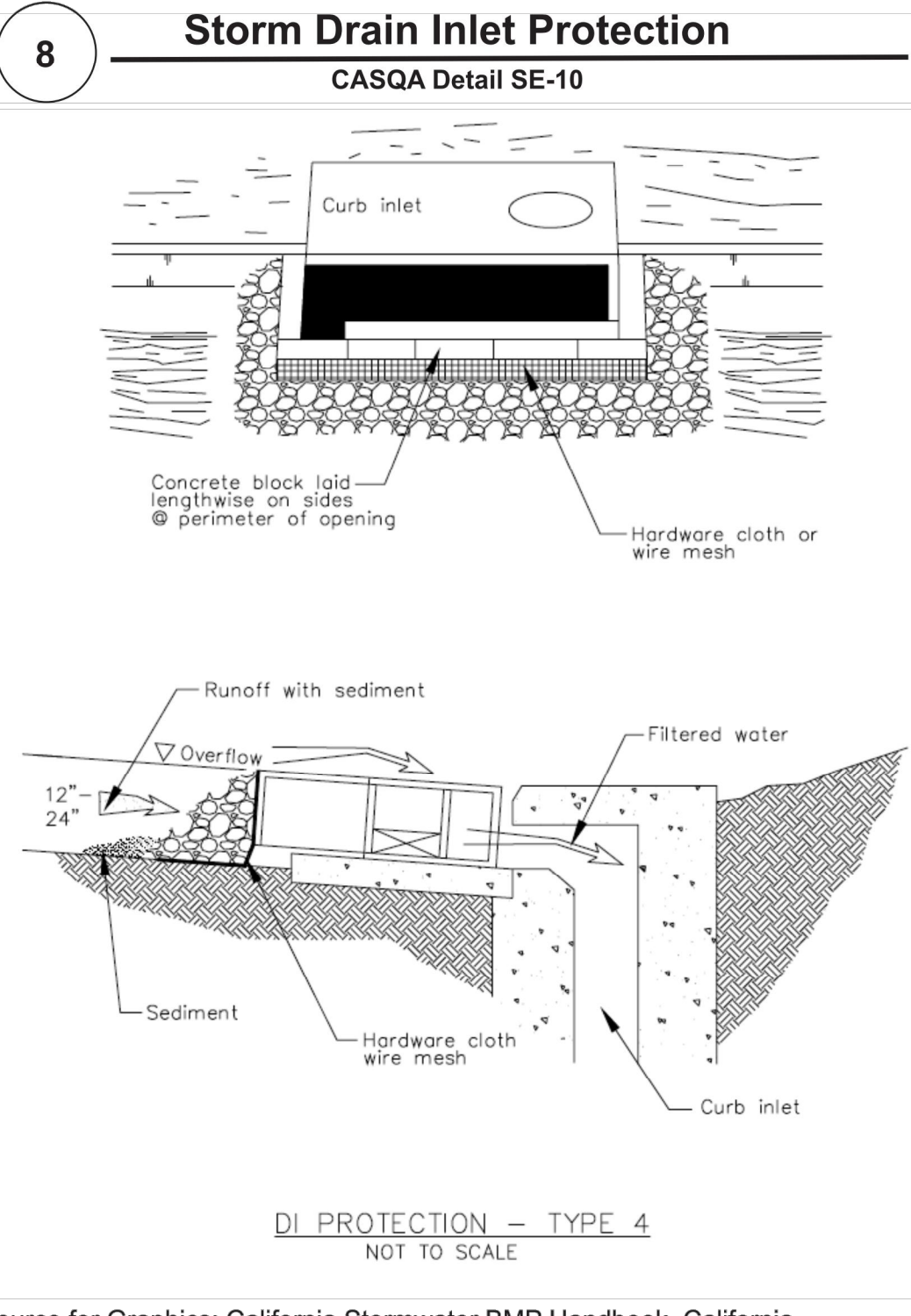
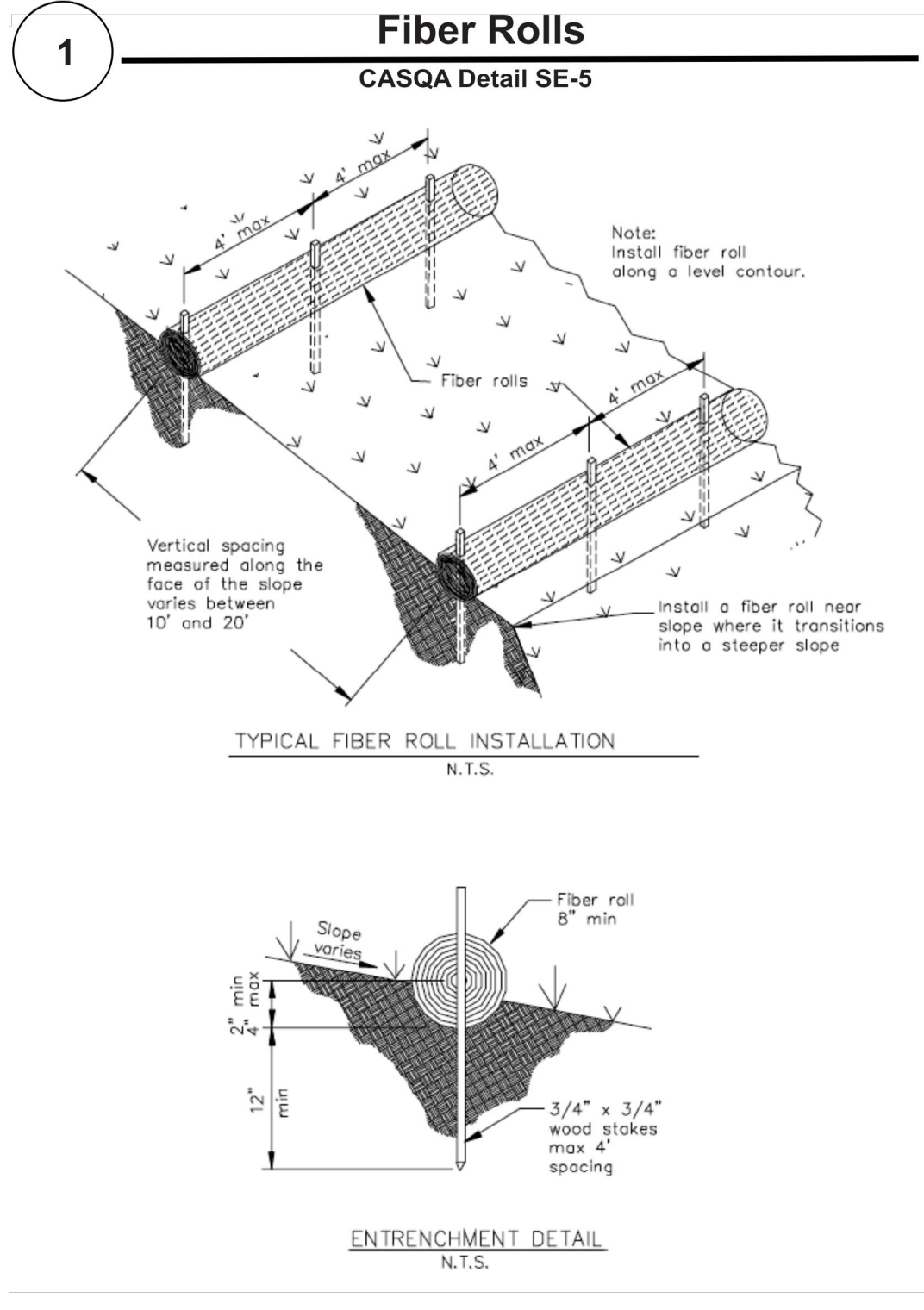
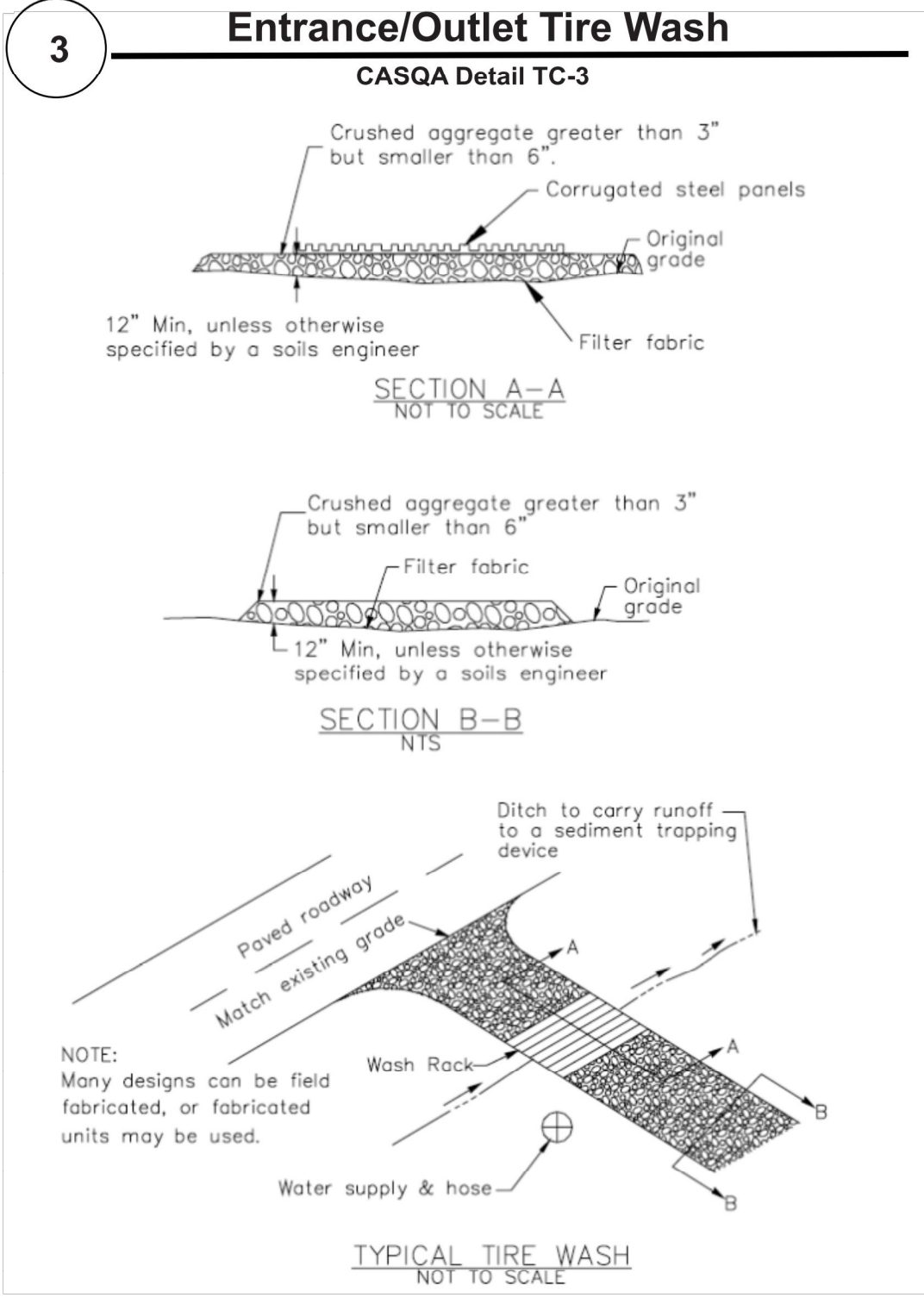
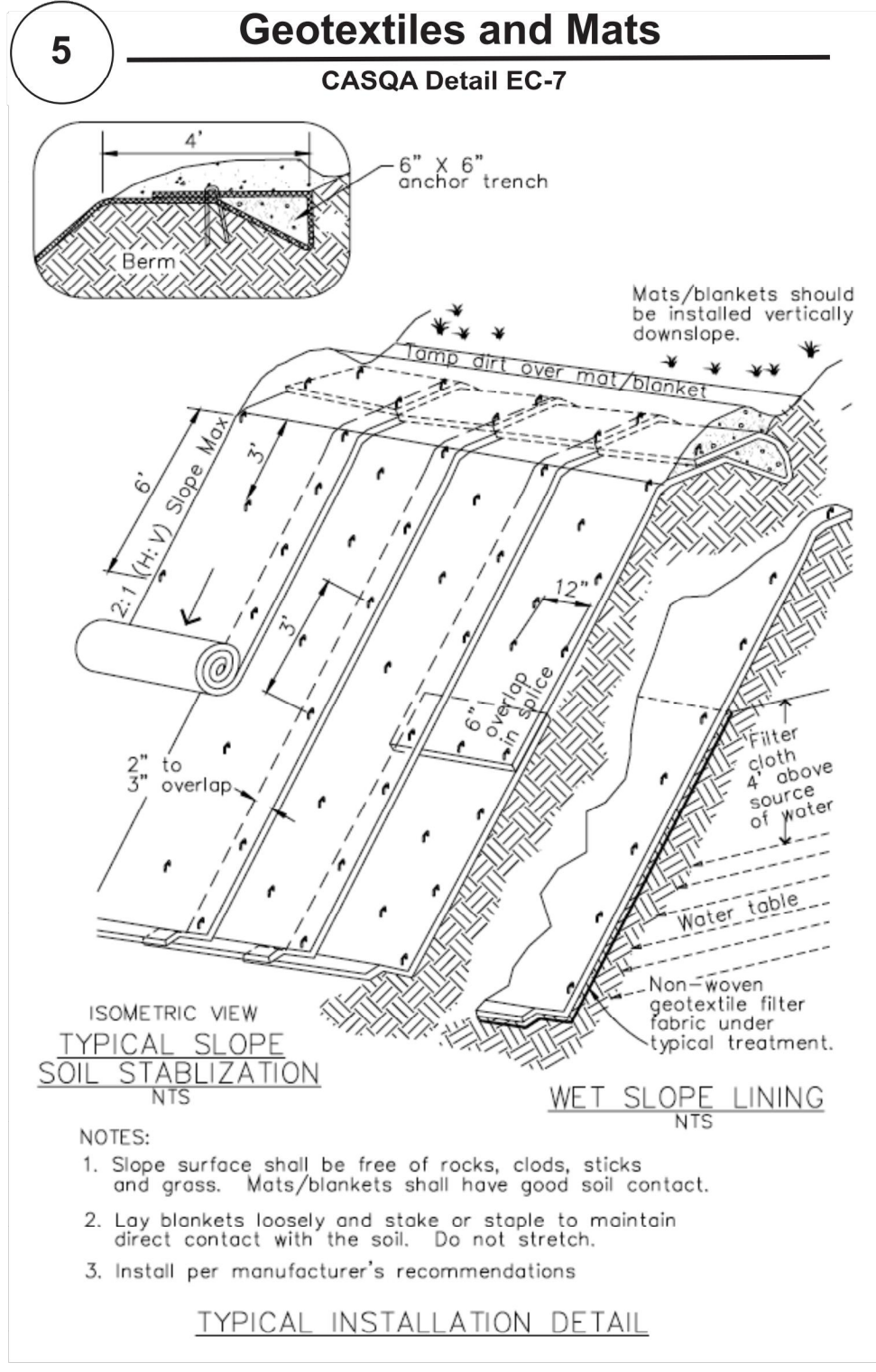
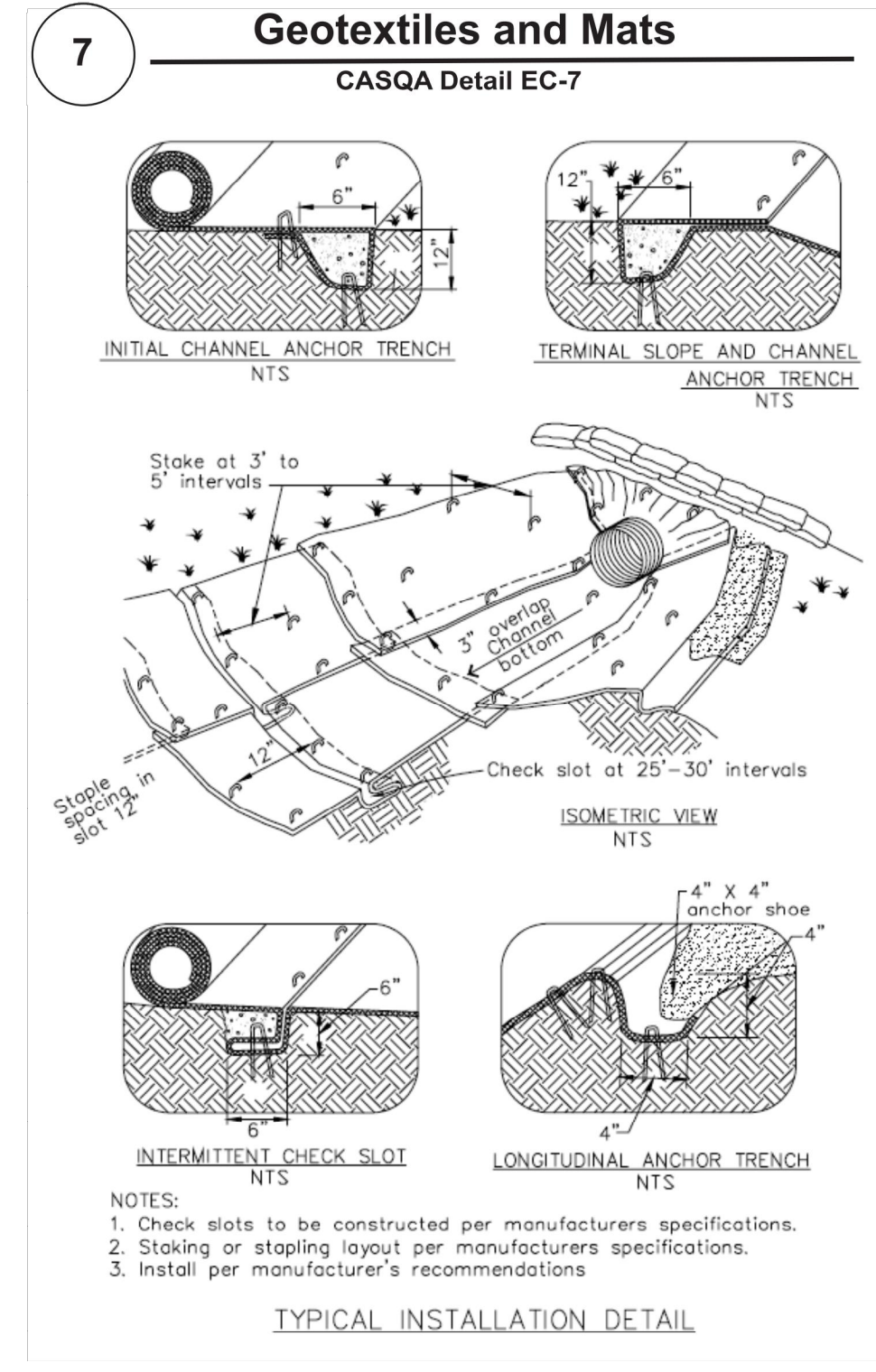
- Sediment Control Management:**
 - Tracking Prevention & Clean Up:** Activities shall be organized and measures taken as needed to prevent or minimize tracking of soil onto the public street system. A gravel or proprietary device construction entrance/exit is required for all sites. Clean up of tracked material shall be provided by means of a street sweeper prior to an approaching rain event, or at least once at the end of each workday that material is tracked, or more frequently as determined by the County Inspector. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages B-31 to B-33) or latest.
 - Storm Drain Inlet and Catch Basin Inlet Protection:** All inlets within the vicinity of the project and within the project limits shall be protected with gravel bags placed around inlets or other inlet protection. At locations where exposed soils are present, staked fiber rolls or staked silt fences can be used. Inlet filters are not allowed due to clogging and subsequent flooding. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages B-49 to B-51) or latest.
 - Storm Water Runoff:** No storm water runoff shall be allowed to drain in to the existing and/or proposed underground storm drain system or other above ground watercourses until appropriate erosion control measures are fully installed.
 - Dust Control:** The contractor shall provide dust control in graded areas as required by providing wet suppression or chemical stabilization of exposed soils, providing for rapid clean up of sediments deposited on paved roads, furnishing construction road entrances and vehicle wash down areas, and limiting the amount of areas disturbed by clearing and earth moving operations by scheduling these activities in phases.
 - Stockpiling:** Excavated soils shall not be placed in streets or on paved areas. Borrow and temporary stockpiles shall be protected with appropriate erosion control measures (taps, straw bales, silt fences, ect.) to ensure silt does not leave the site or enter the storm drain system or neighboring watercourse.
- Erosion Control:** During the rainy season, all disturbed areas must include an effective combination of erosion and sediment control. It is required that temporary erosion control measures are applied to all disturbed soil areas prior to a rain event. During the non-rainy season, erosion control measures must be applied sufficient to control wind erosion at the site.
- Inspection & Maintenance:** Disturbed areas of the Project's site, locations where vehicles enter or exit the site, and all erosion and sediment controls that are identified as part of the Erosion Control Plans must be inspected by the Contractor before, during, and after storm events, and at least weekly during seasonal wet periods. Problem areas shall be identified and appropriate additional and/or alternative control measures implemented immediately, within 24 hours of the problem being identified.
- Project Completion:** Prior to project completion and signoff by the County Inspector, all disturbed areas shall be reseeded, planted, or landscaped to minimize the potential for erosion on the subject site.
- It shall be the Owner's/Contractor's responsibility to maintain control of the entire construction operation and to keep the entire site in compliance with the erosion control plan.
- Erosion and sediment control best management practices shall be operable year round or until vegetation is fully established on landscaped surfaces.

Best Management Practices and Erosion Control Details Sheet 1
County of Santa Clara



BMP-1

Project Information



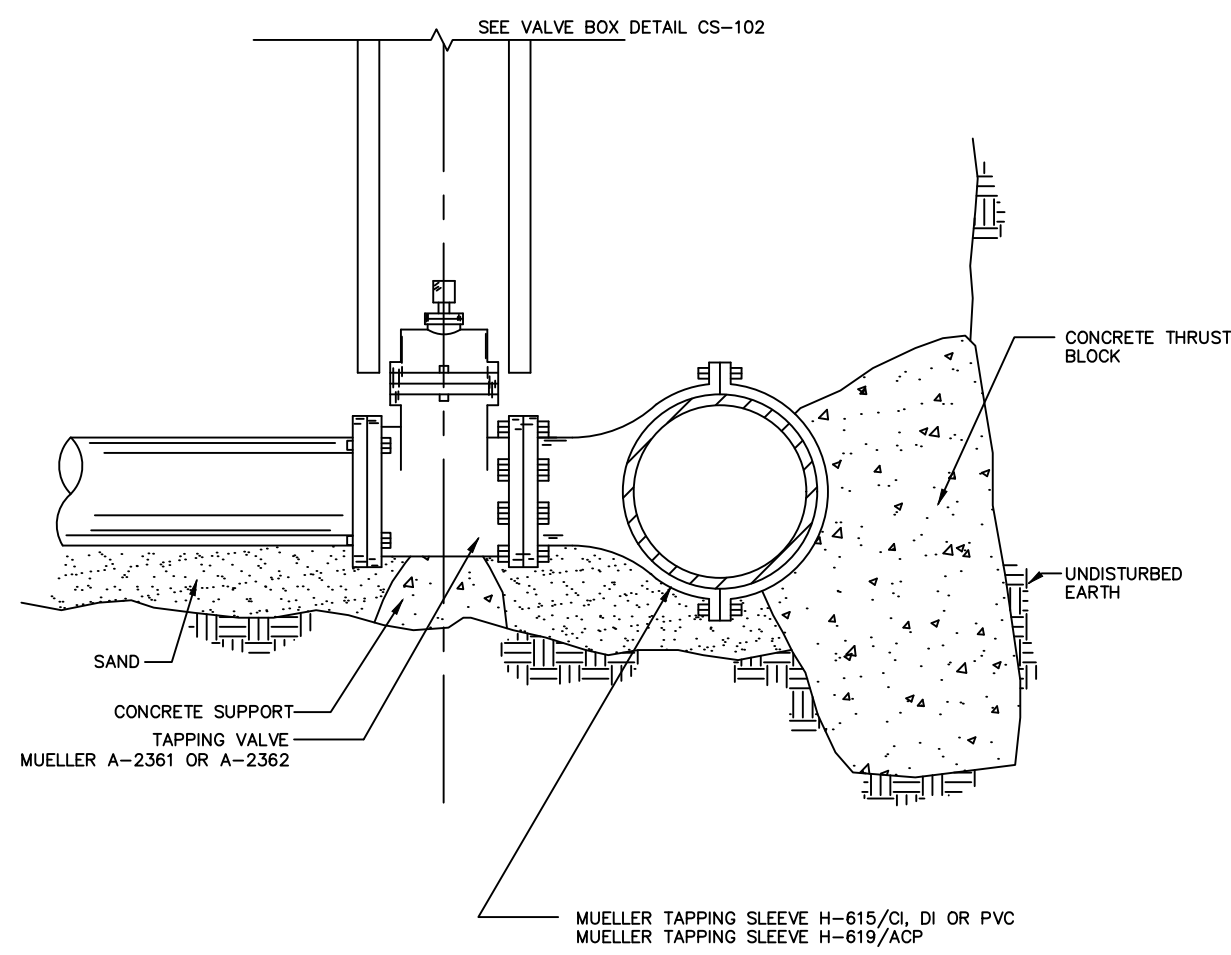
Source for Graphics: California Stormwater BMP Handbook, California Stormwater Quality Association, January 2003. Available from www.cabmphandbooks.com.

Best Management Practices and Erosion Control Details Sheet 2

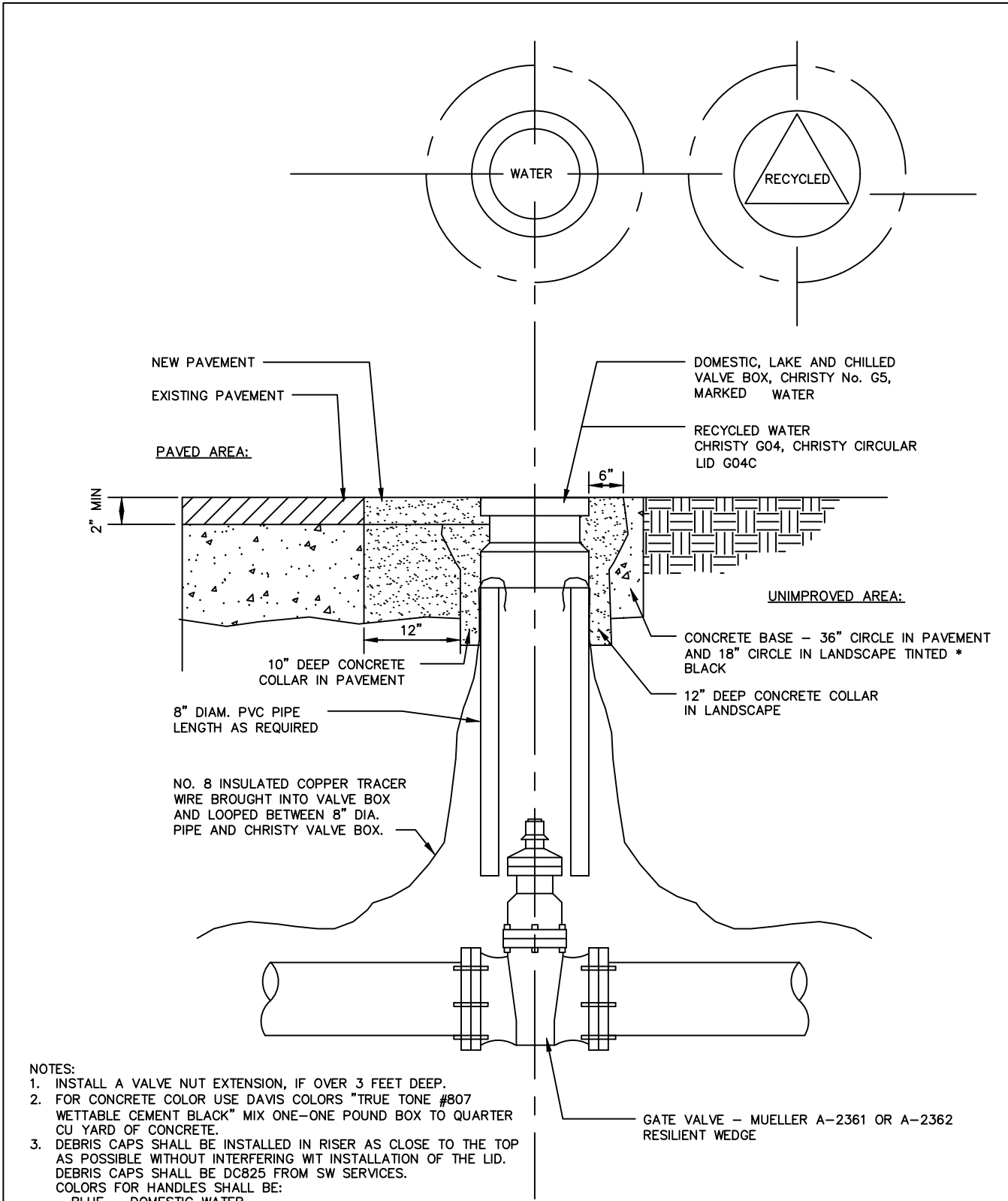
County of Santa Clara



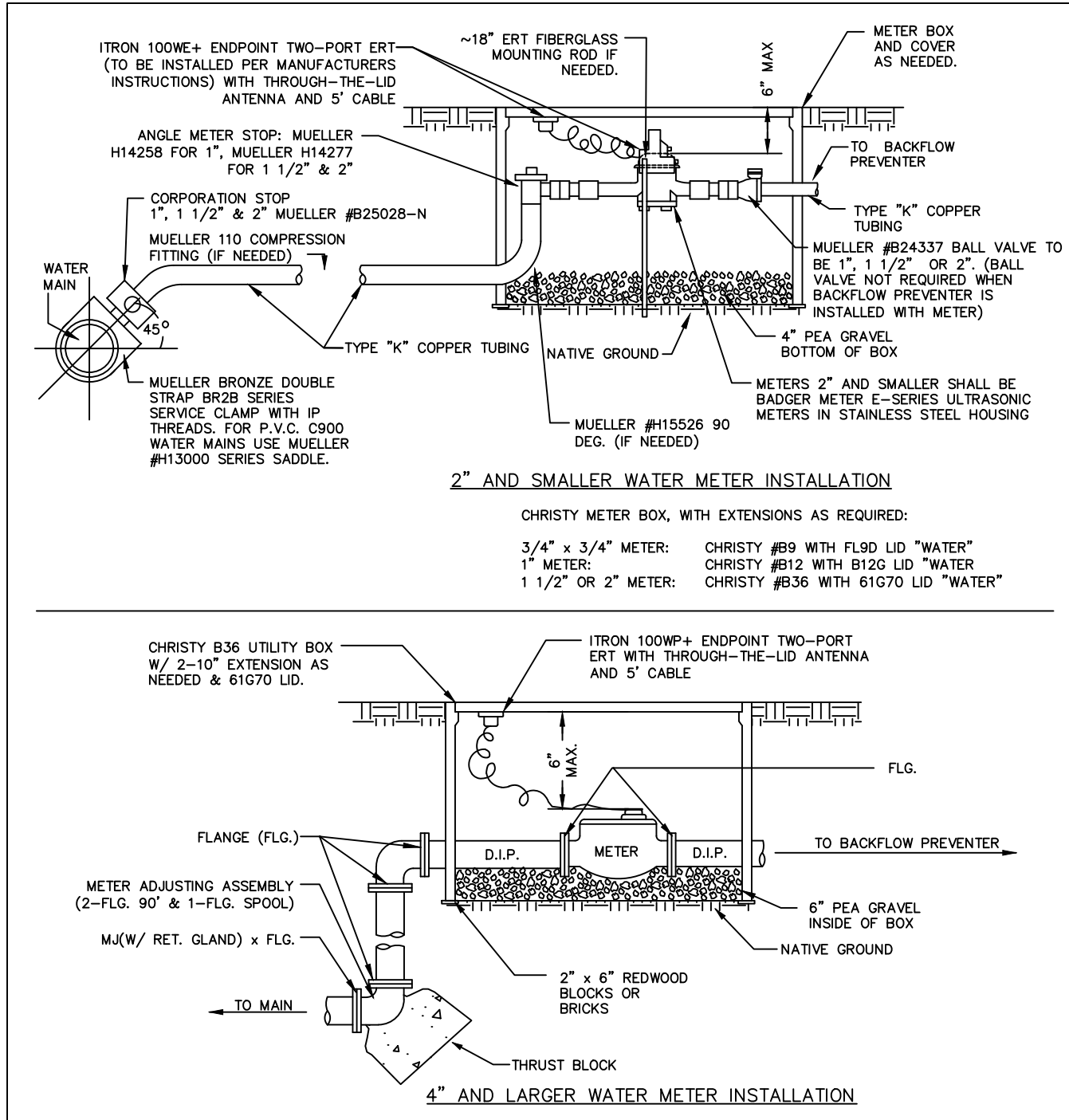
BMP-2



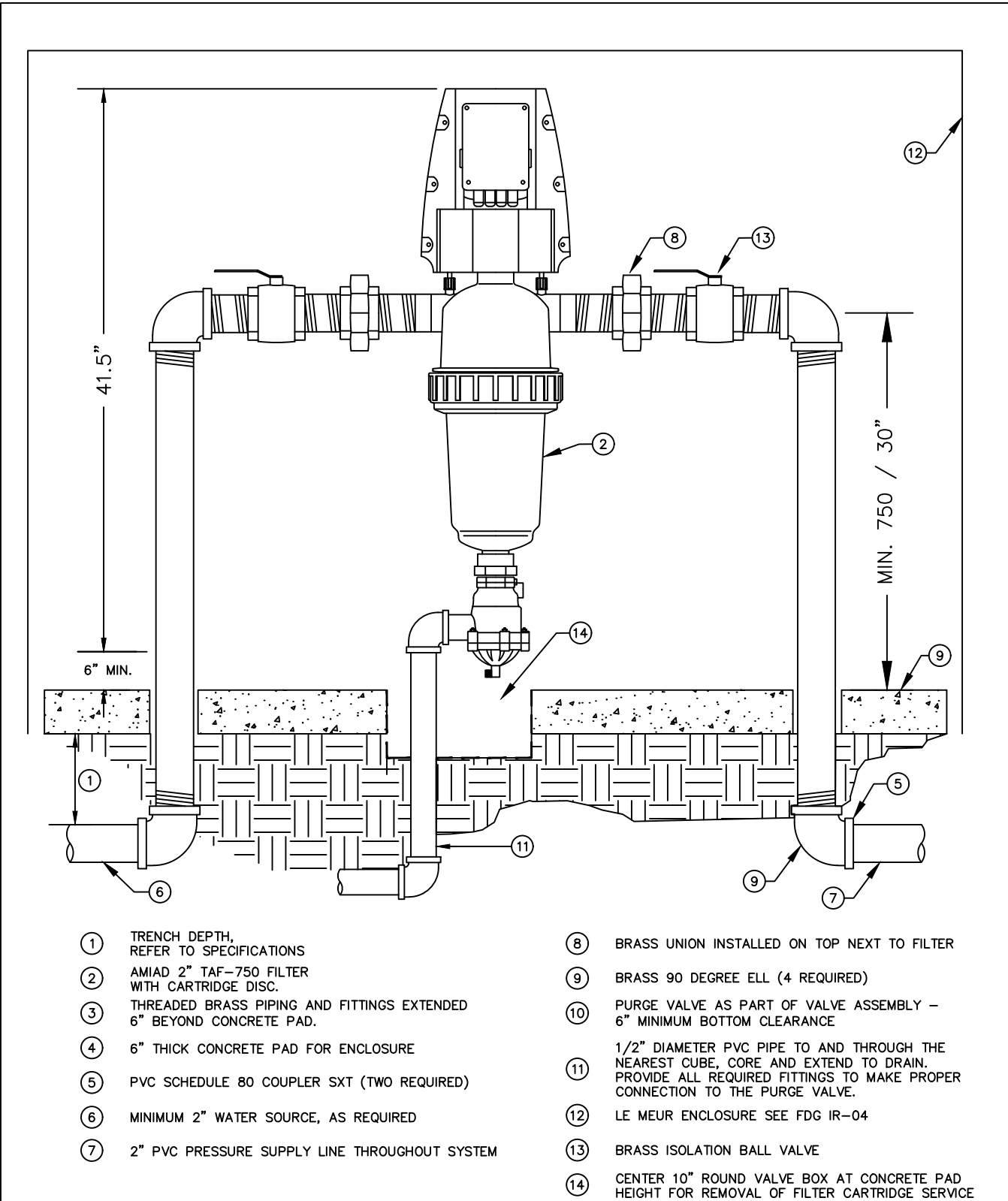
1 TAPPING SLEEVE AND VALVE
N.T.S.



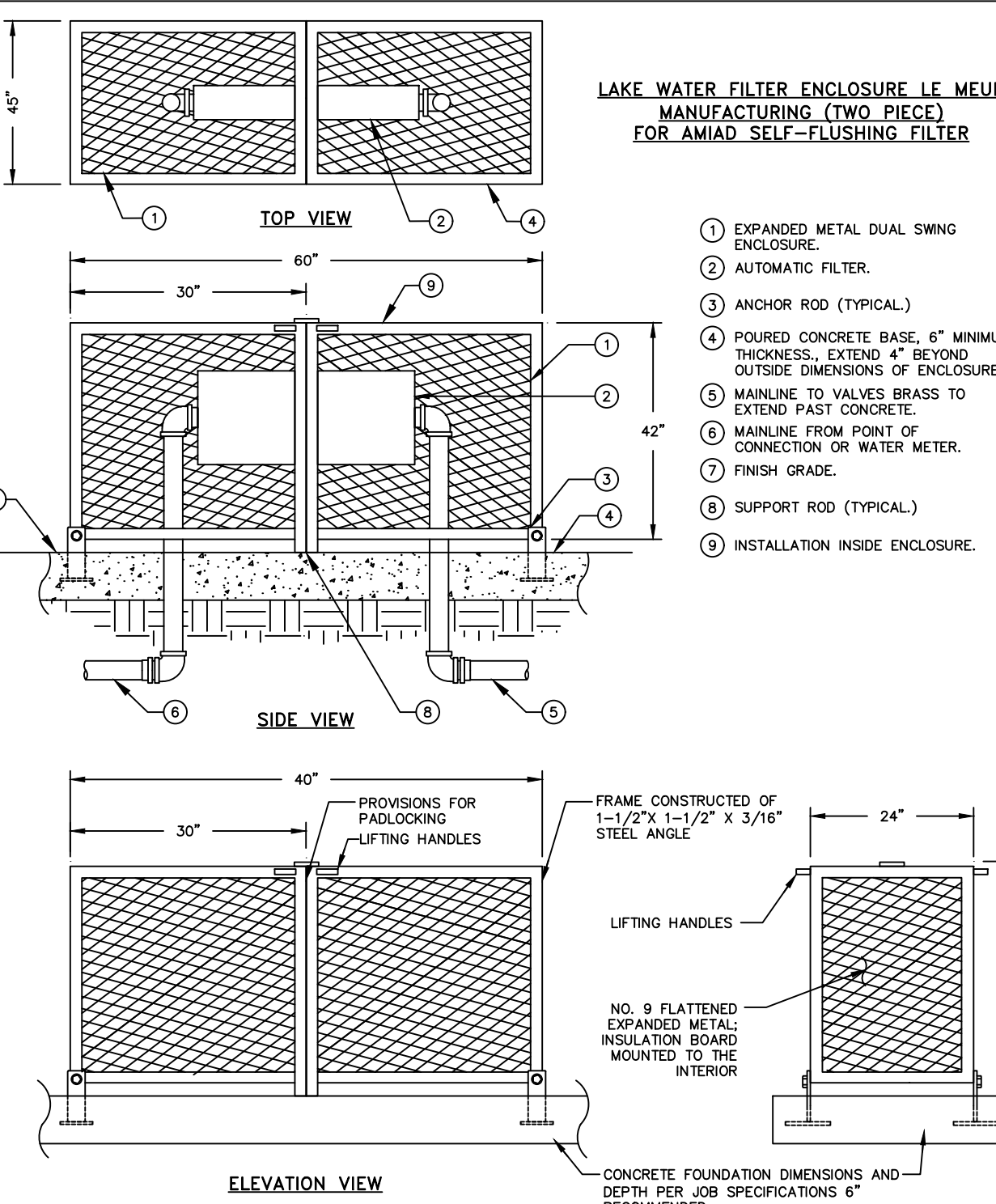
2 GATE VALVE BOX
N.T.S.



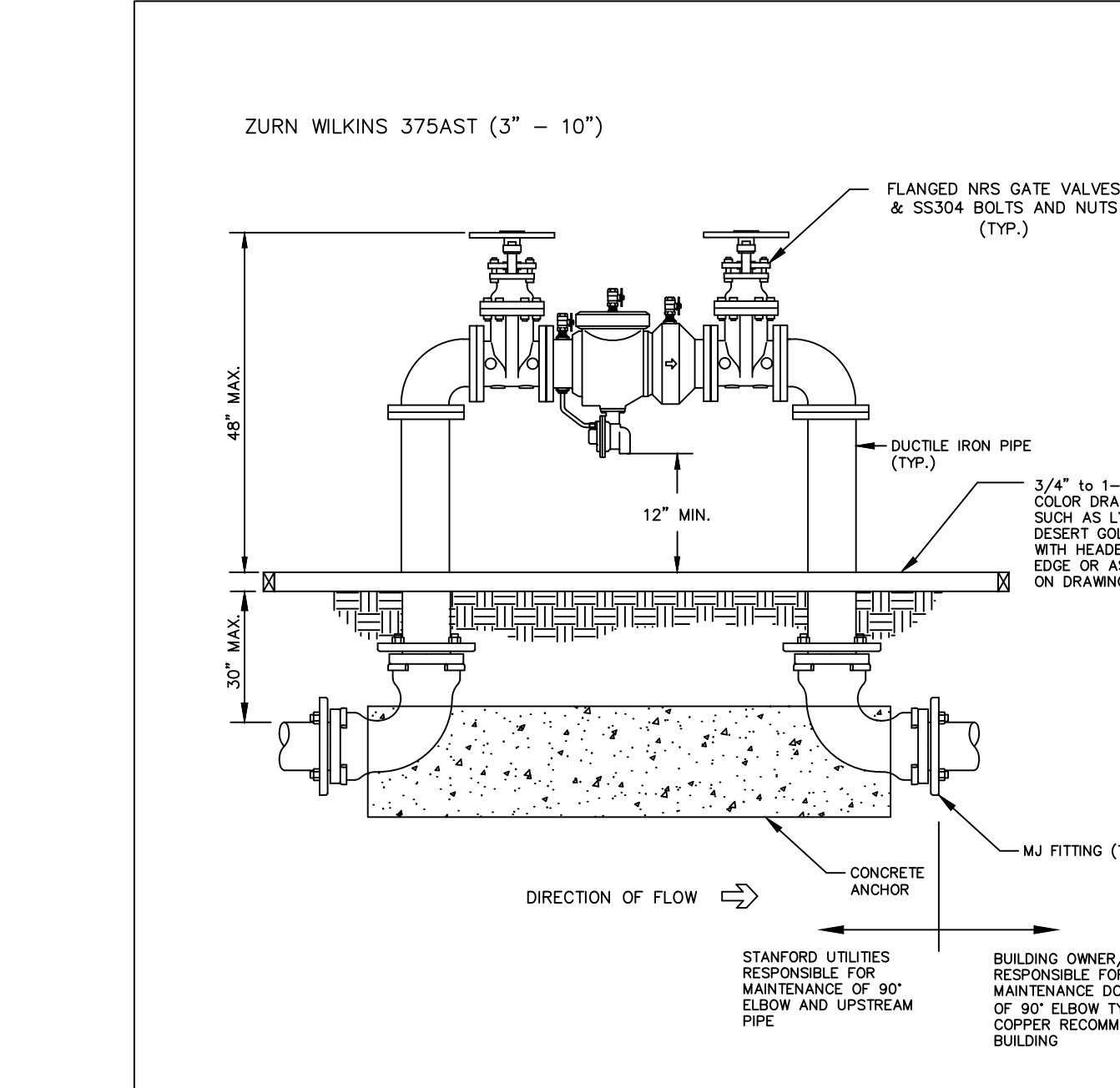
3 WATER METER INSTALLATION
N.T.S.



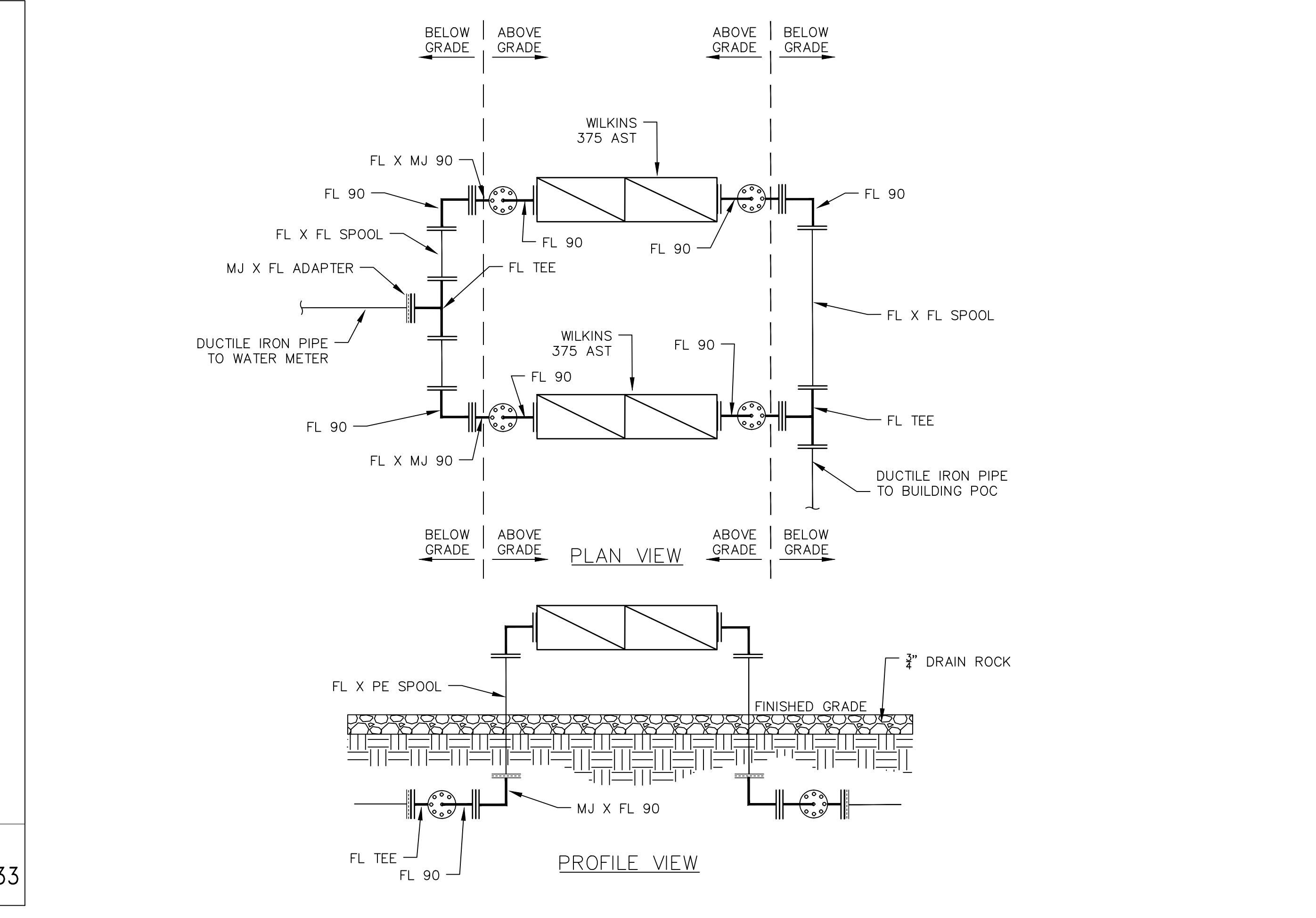
4 LAKE WATER FILTER INSTALLATION
N.T.S.



5 LAKE WATER FILTER ENCLOSURE INSTALLATION
N.T.S.

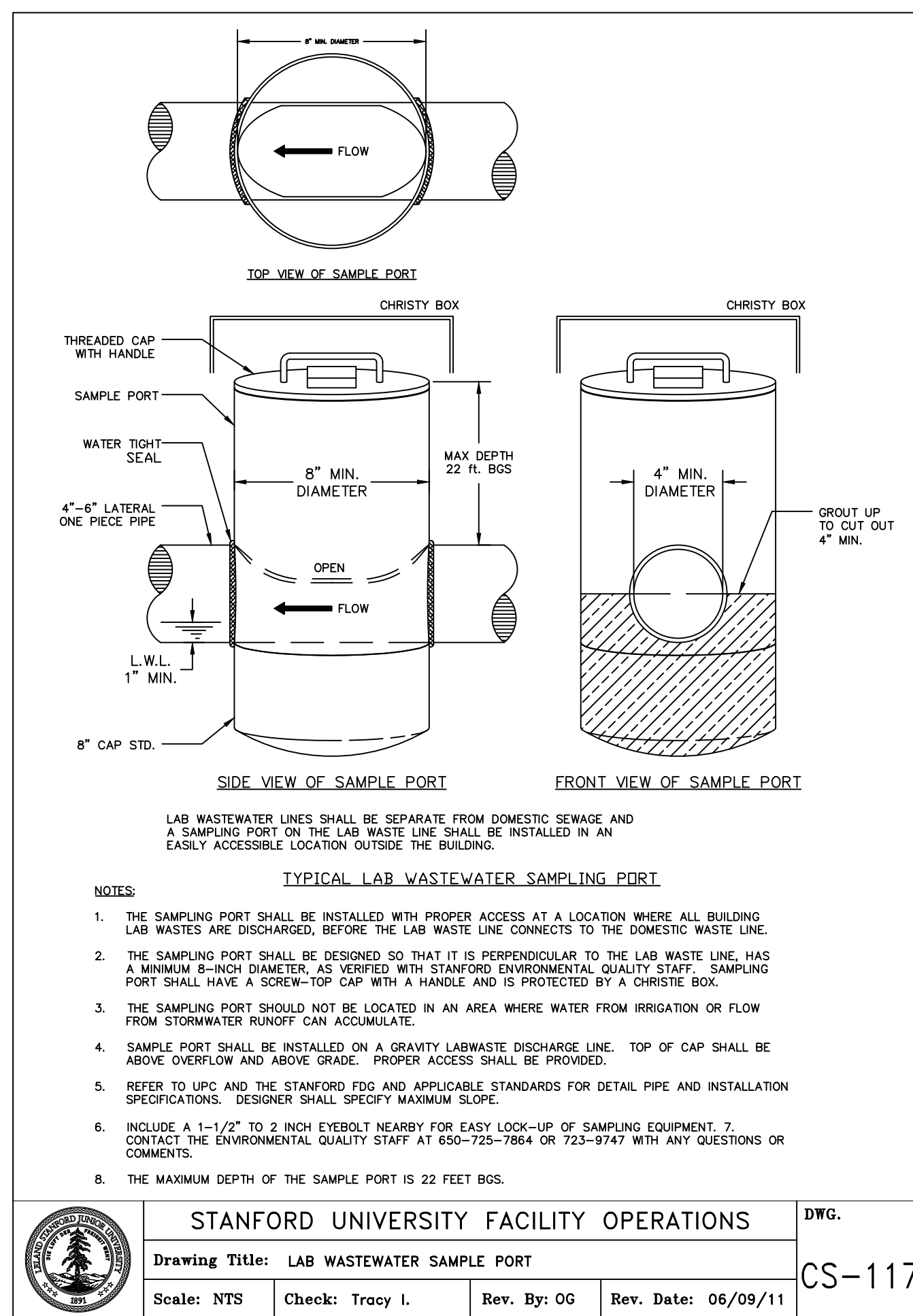


6 DOMESTIC WATER BACKFLOW REDUCED PRESSURE ASSY.
N.T.S.

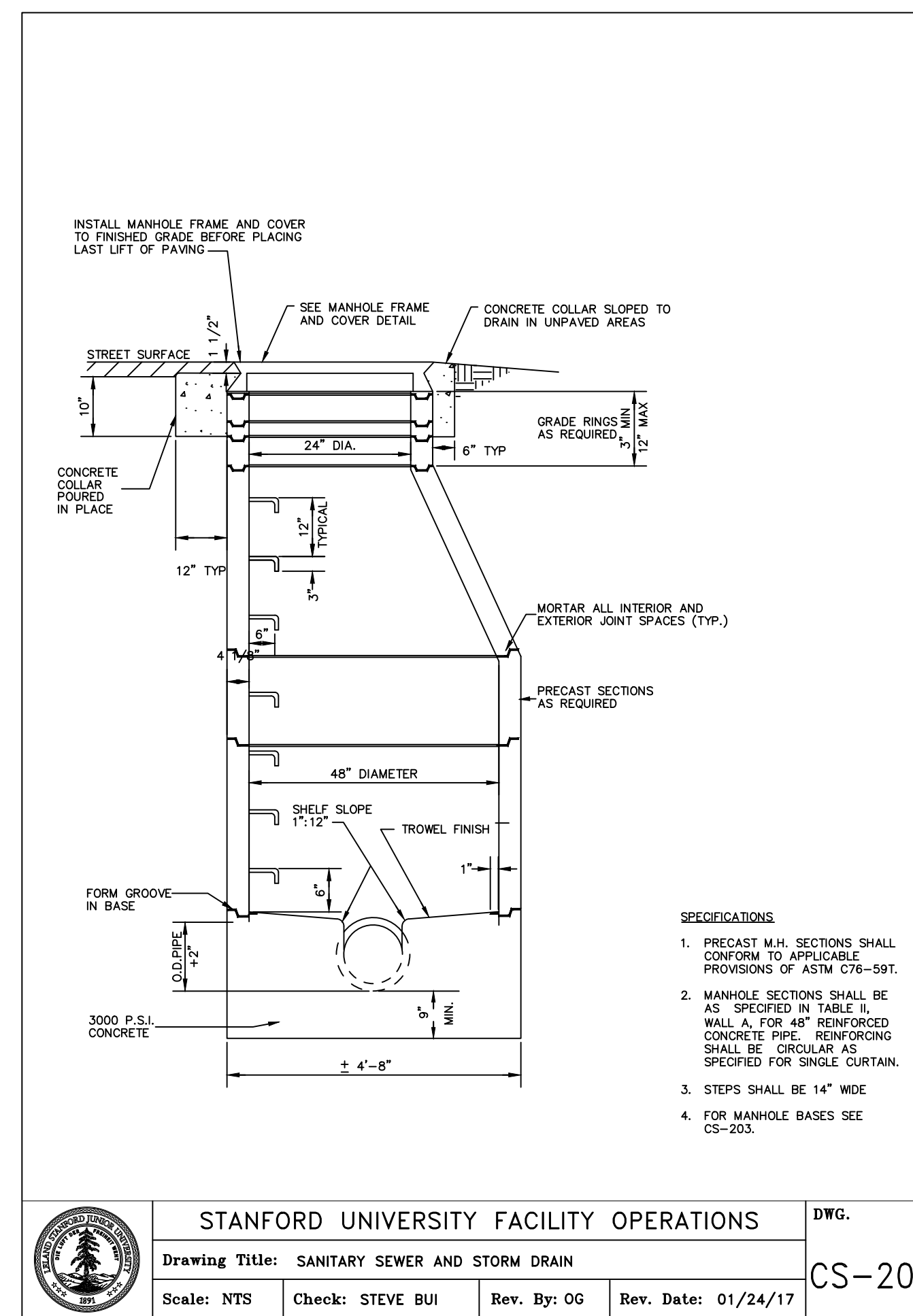


7 REDUCED PRESSURE PRINCIPAL BACKFLOW INSTALLATION DETAIL
N.T.S.

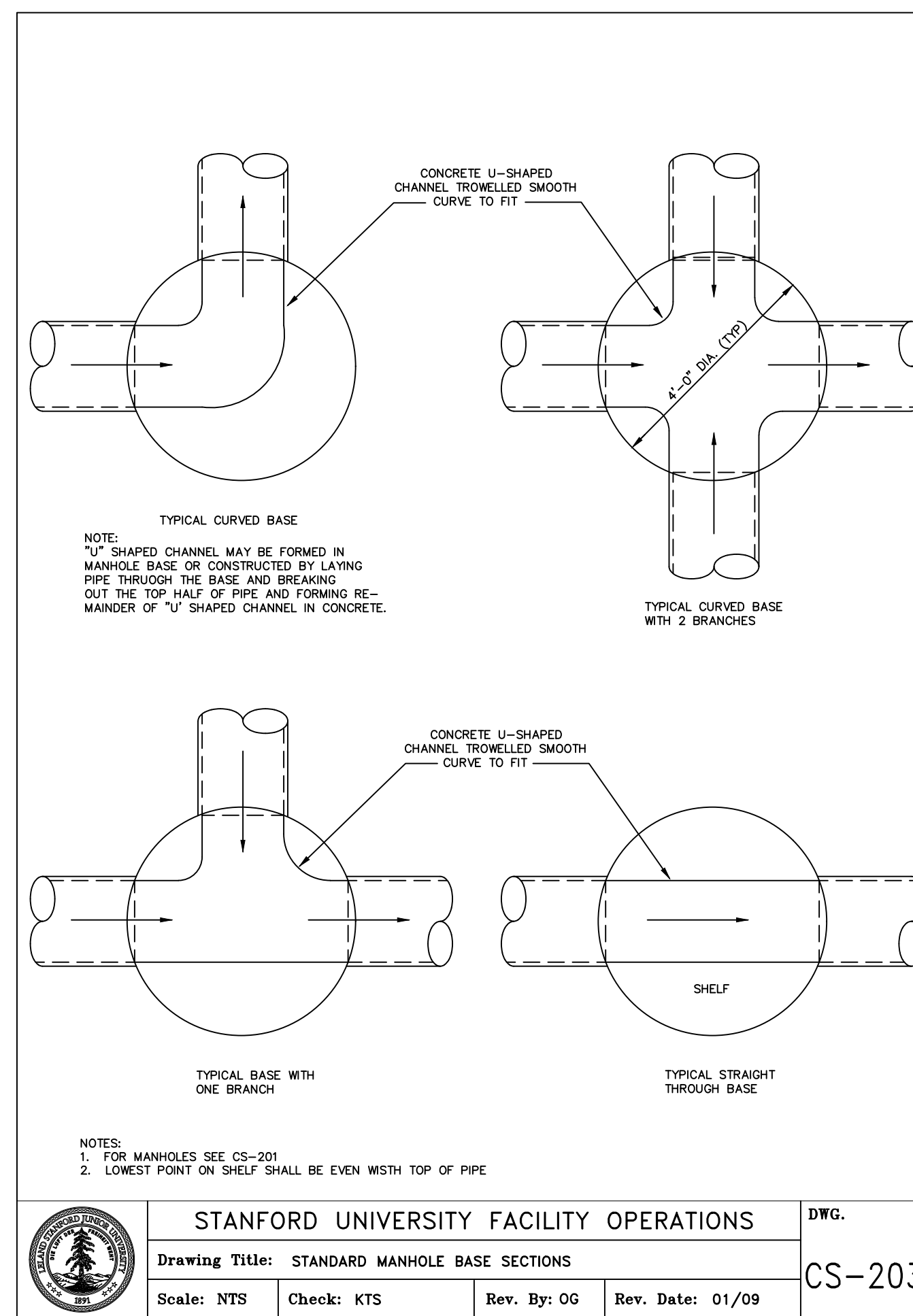
Sheet Size: 24 x 36 03/13/2024 @ 3:45 PM



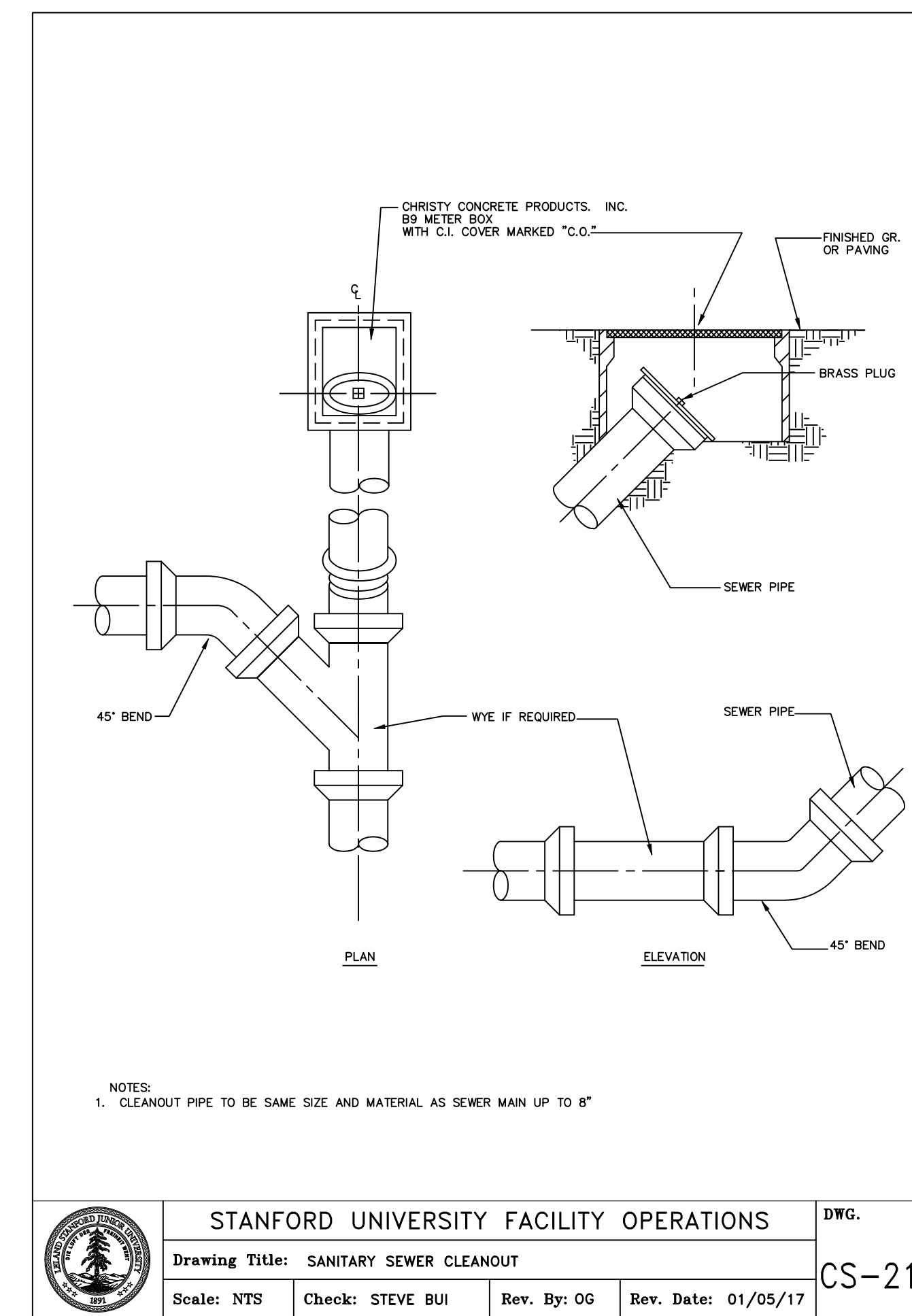
1 LAB WASTE SAMPLE PORT
N.T.S.



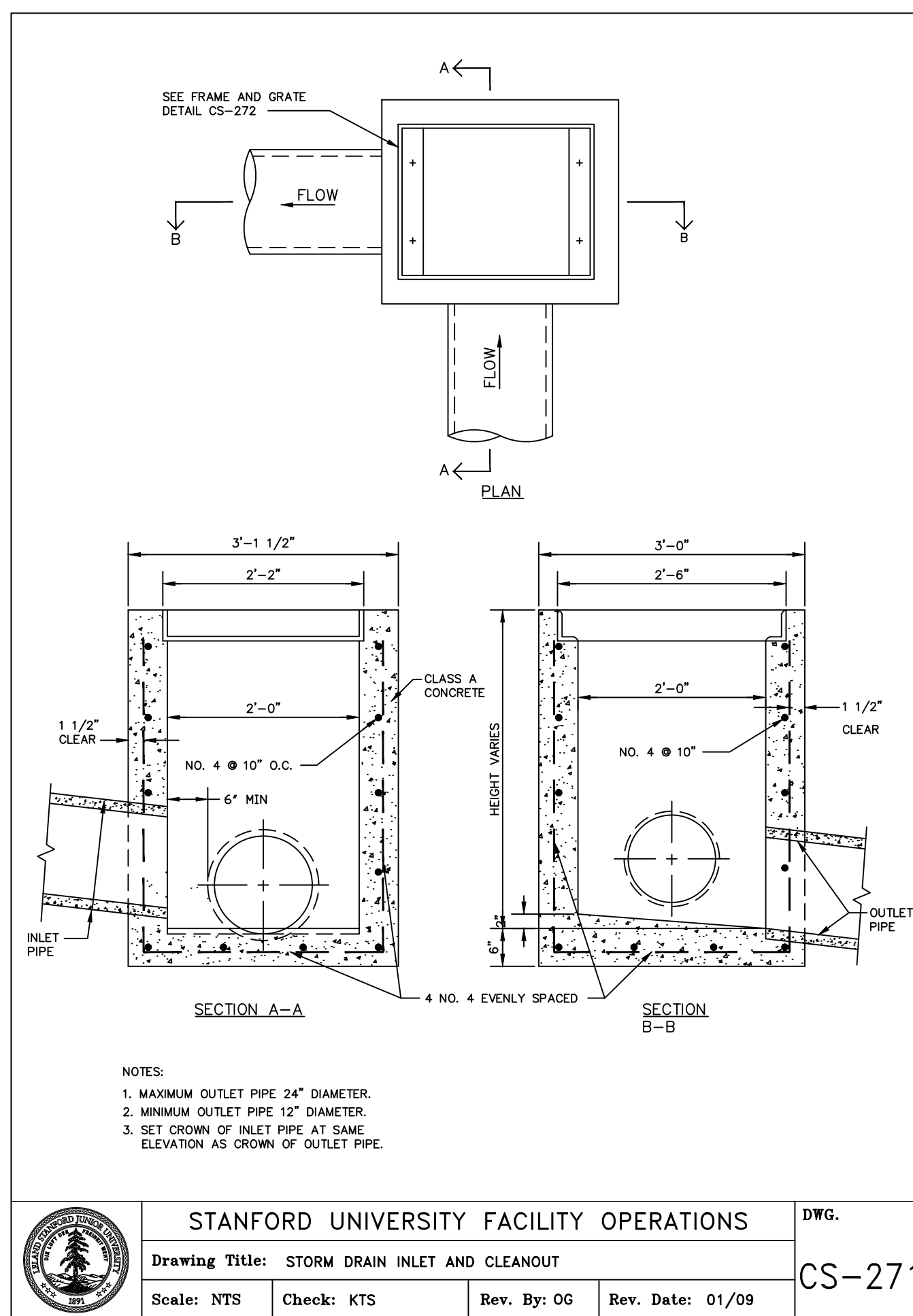
2 SEWER AND STORM DRAIN MANHOLE
N.T.S.



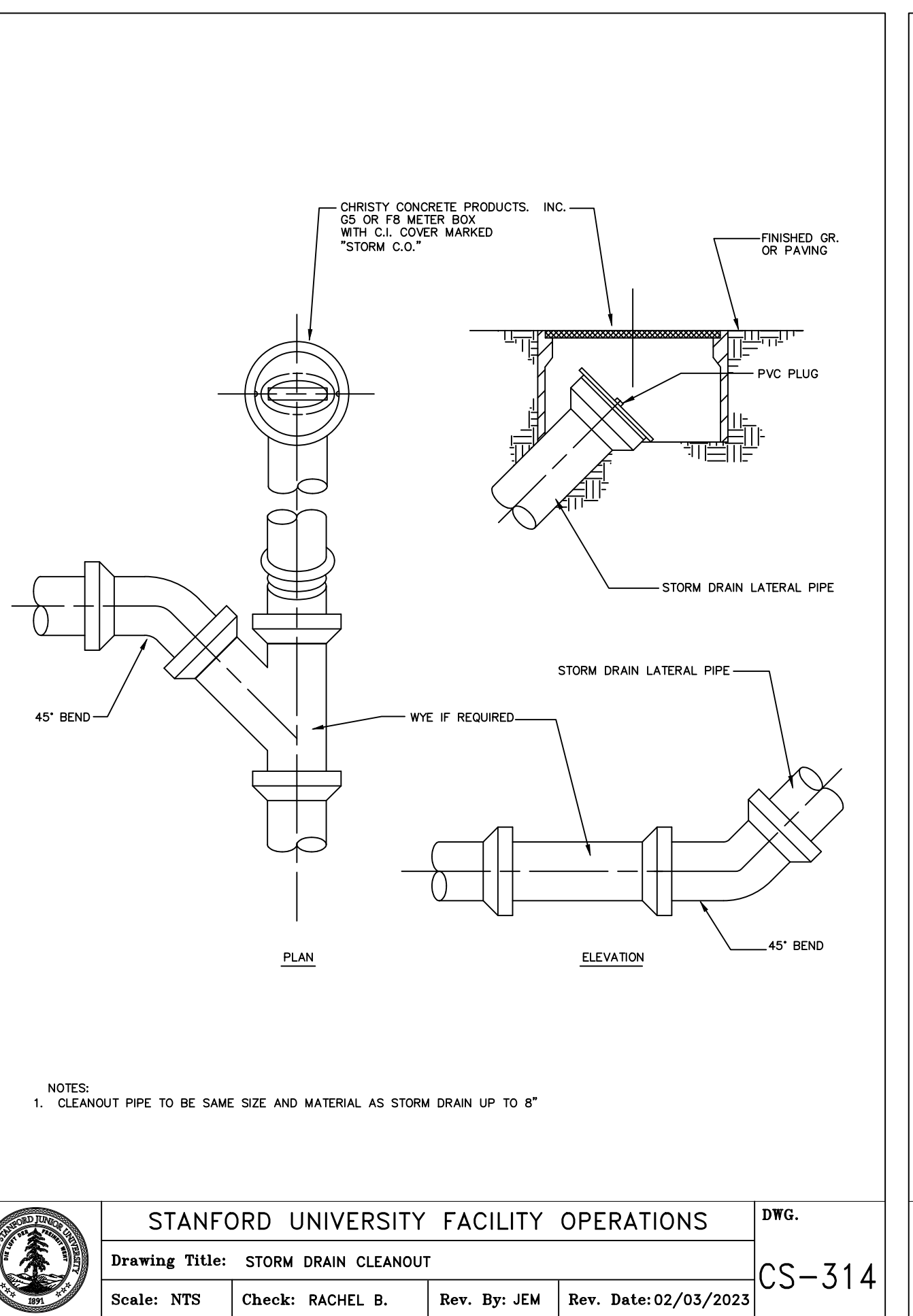
3 MANHOLE BASE SECTIONS
N.T.S.



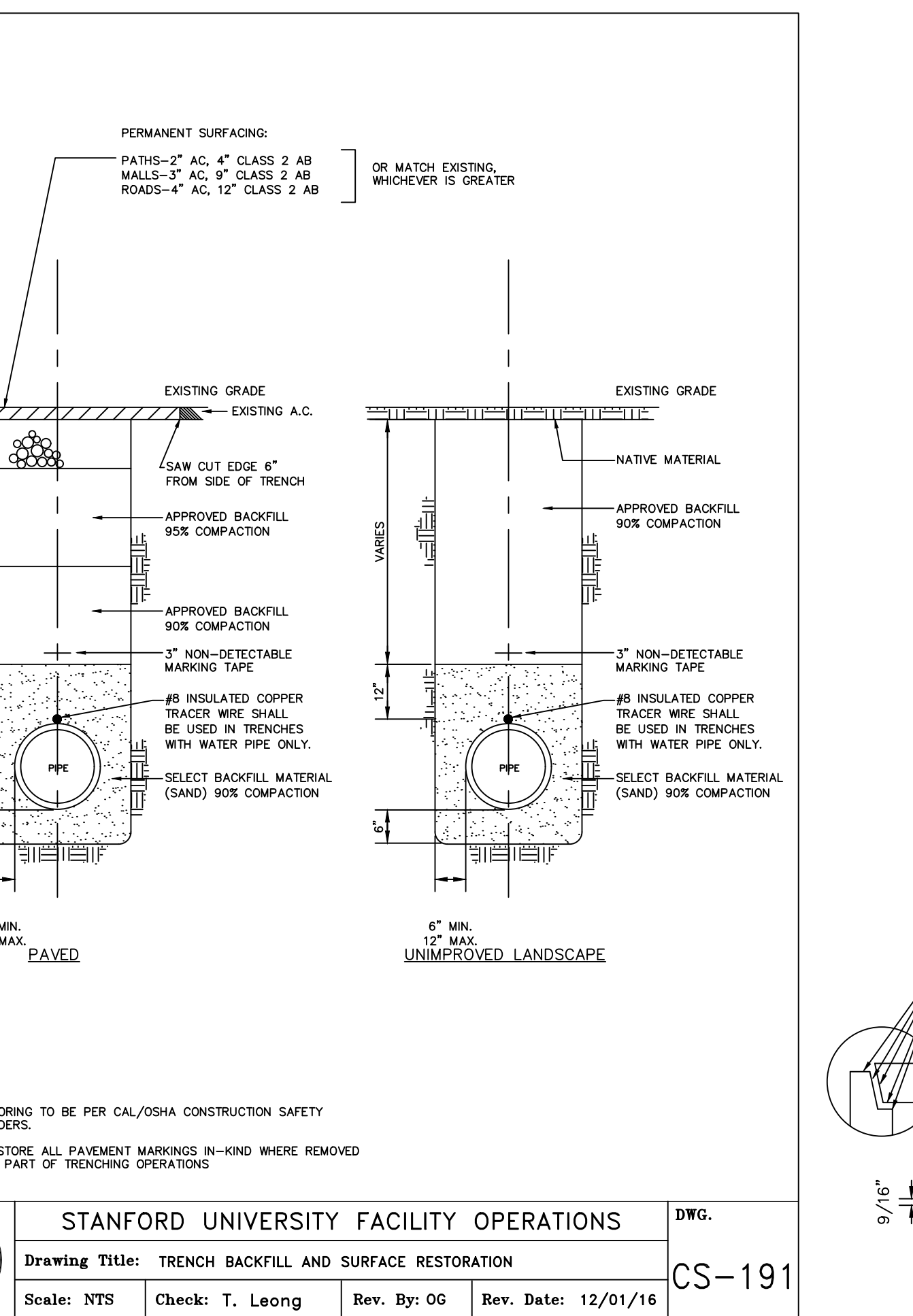
4 SANITARY SEWER CLEANOUT
N.T.S.



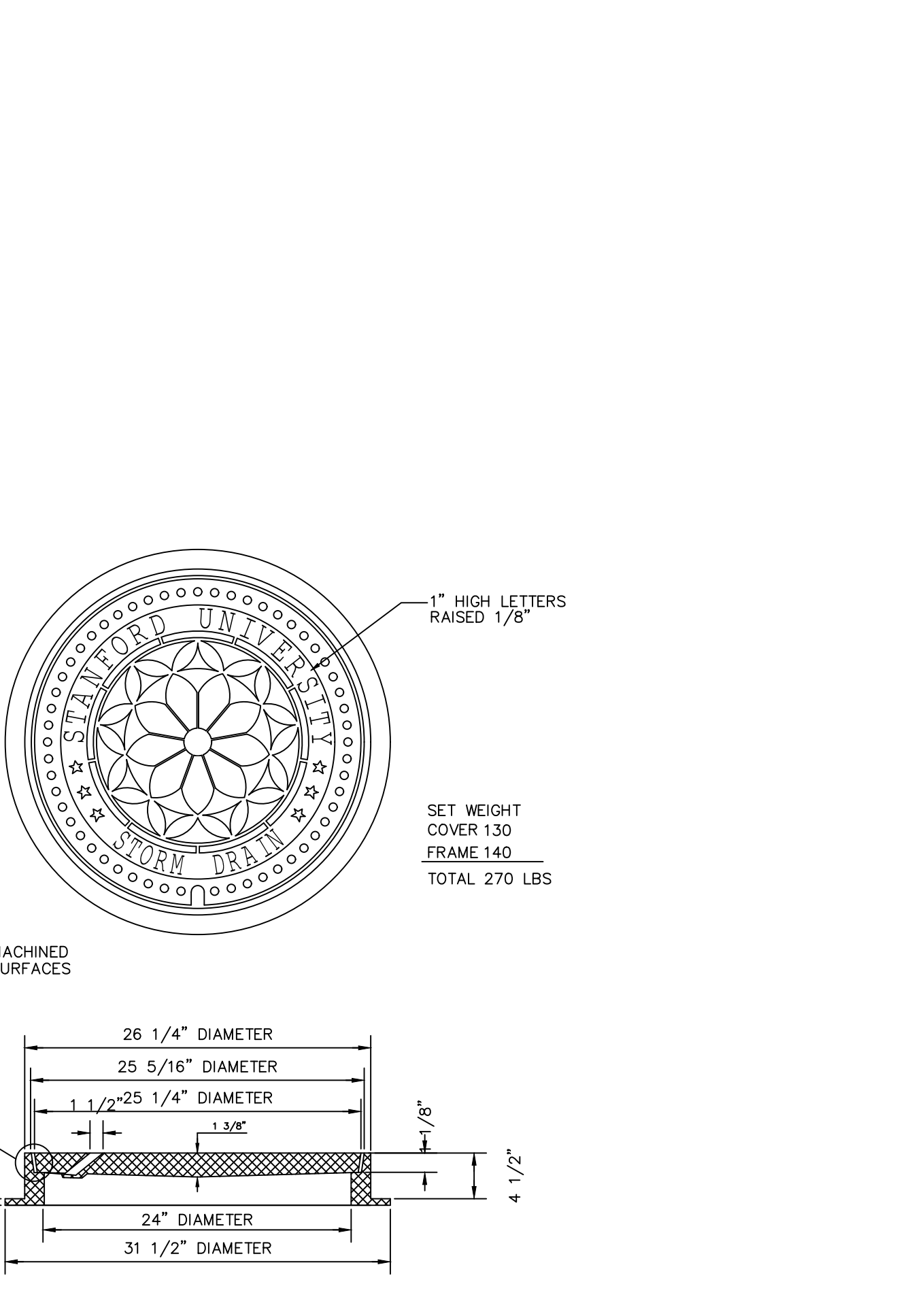
5 STORM DRAIN INLET
N.T.S.



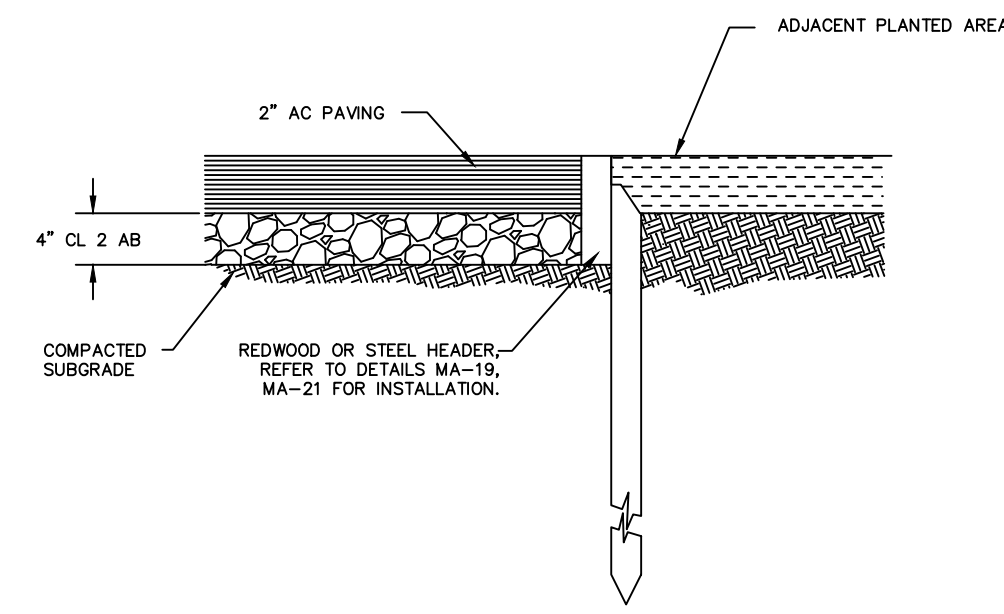
6 STORM DRAIN CLEANOUT
N.T.S.



7 TRENCH BACKFILL & SURFACE RESTORATION
N.T.S.



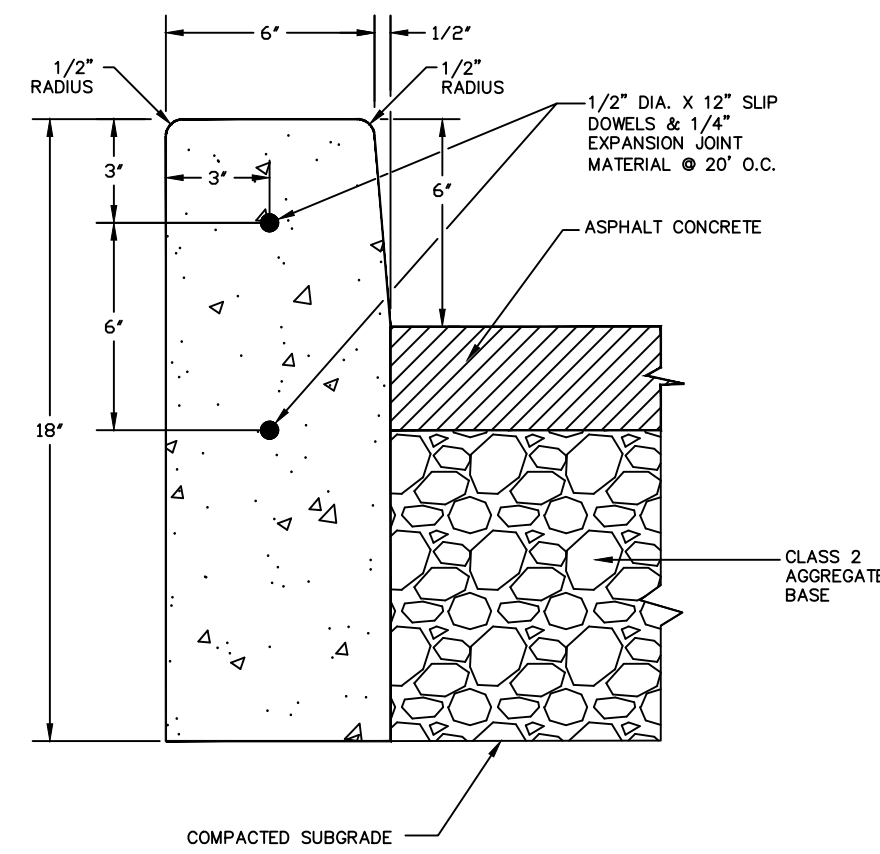
8 STORM DRAIN MANHOLE FRAME & COVER
N.T.S.



- NOTE:
1. FOR SIDEWALK REPAIRS - AREA TO BE REPLACED SHALL BE SAWCUT PRIOR TO REMOVAL.
 2. SUBGRADE AND AGGREGATE BASE SHALL BE COMPACTED TO 95%.
 3. ASPHALT CONCRETE SHALL BE TYPE 3/2 MEDIUM.
 4. AGGREGATE BASE SHALL BE CLASS 2.
 5. REDWOOD HEADERS ARE STANDARD ON BOTH SIDES OF THE SIDEWALK, UNLESS ONE SIDE IS AGAINST THE CONCRETE CURB.
 6. MATCH WIDTH OF EXISTING SIDEWALK (MINIMUM 4').
 7. TYPICAL SIDEWALK CROSS-SLOPE IS 2% TOWARDS THE STREET.

STANFORD UNIVERSITY FACILITY OPERATIONS				DWG.
Drawing Title: ASPHALT SIDEWALK				CS-286
Scale: NTS	Check: STEVE BUI	Rev. By: JJ	Rev. Date: 02/15/24	

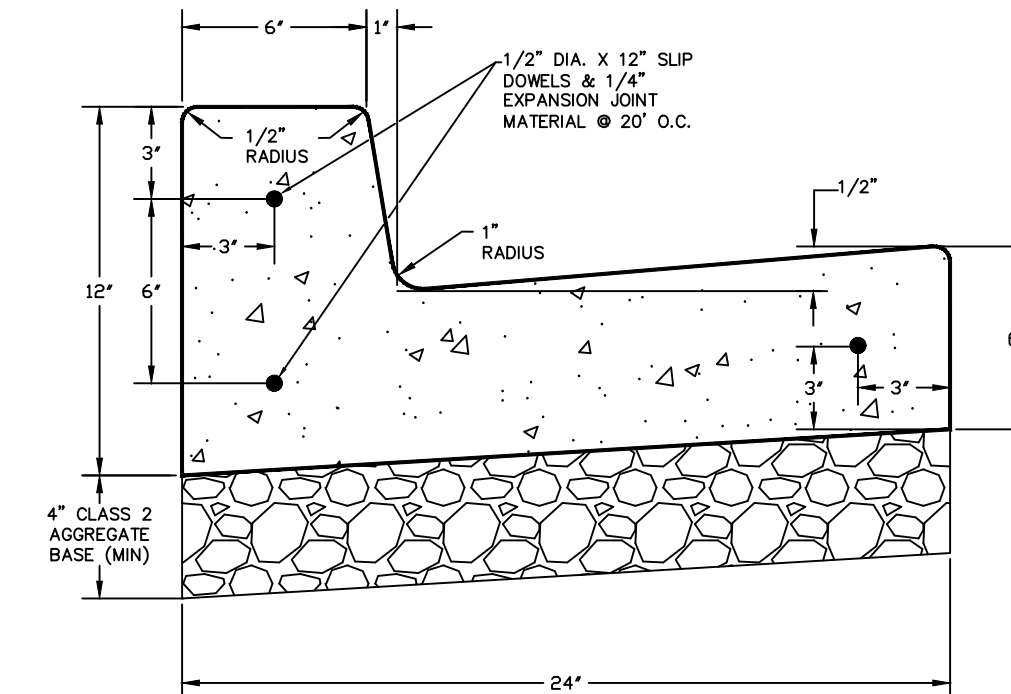
1 ASPHALT SIDEWALK
N.T.S.



- NOTE:
1. ALL EXPOSED CONCRETE EDGES (HORIZONTAL AND VERTICAL) SHALL BE 1/2" RADIUS

STANFORD UNIVERSITY FACILITY OPERATIONS				DWG.
Drawing Title: CONCRETE CURB (6")				CS-289
Scale: NTS	Check: Tom Z.	Rev. By: O.G.	Rev. Date: 05/17/11	

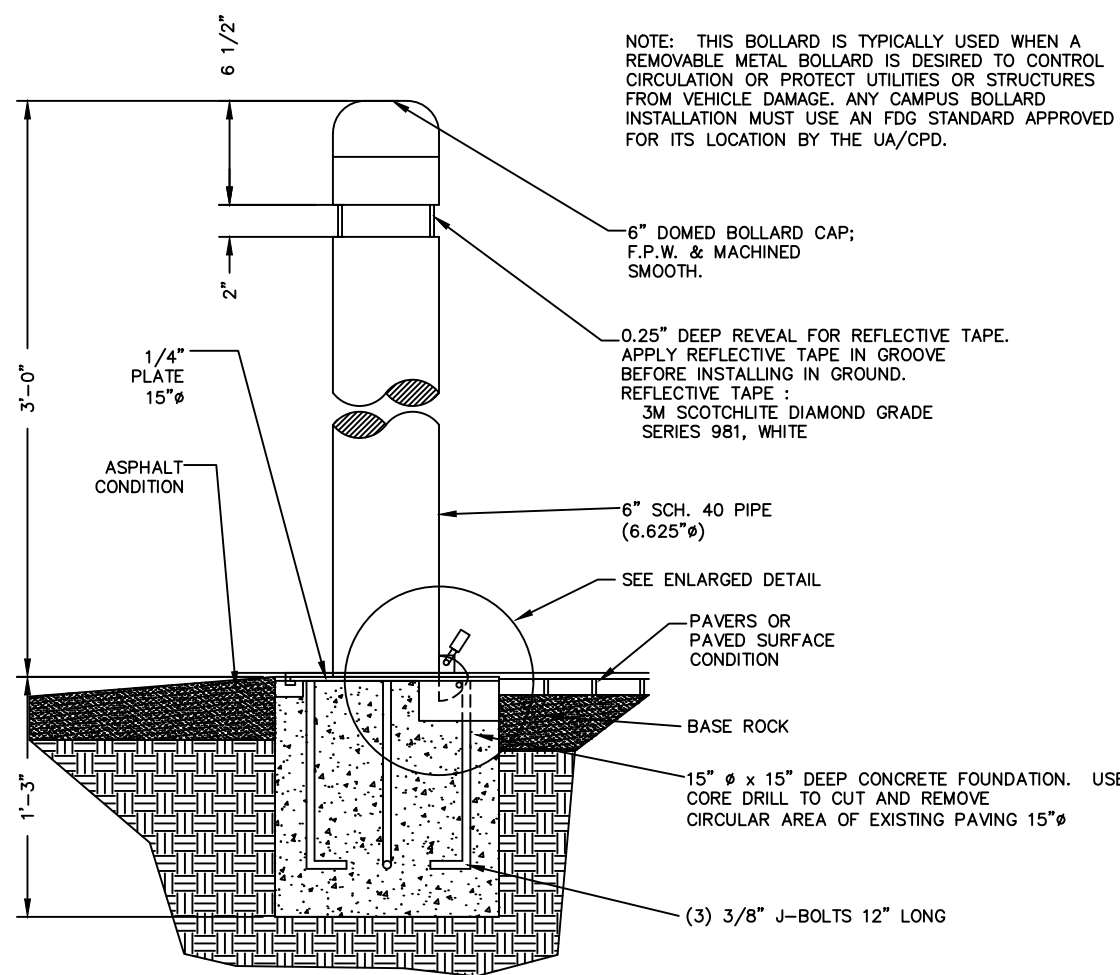
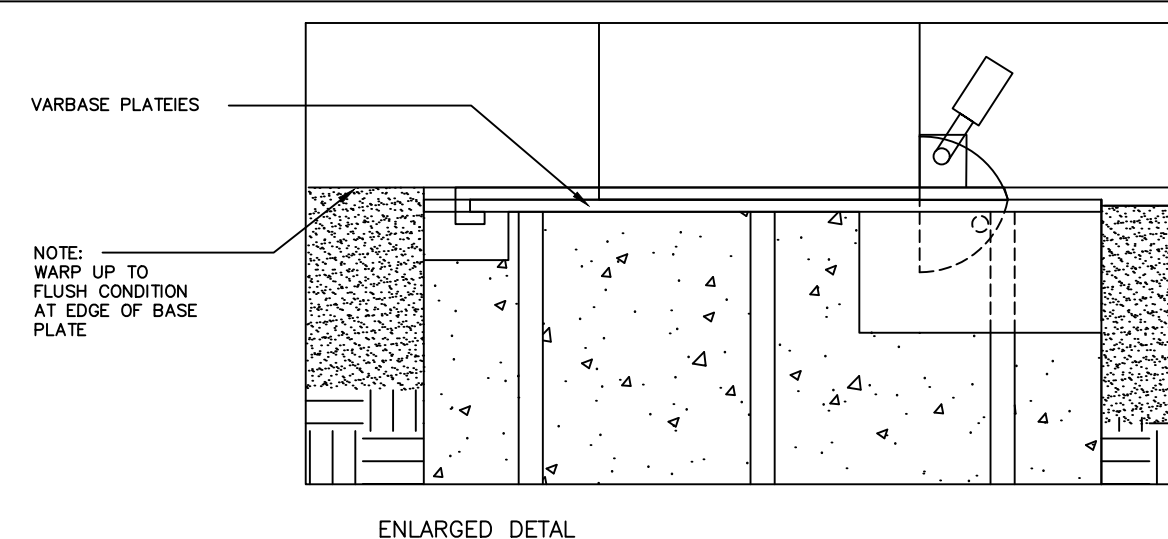
2 6 INCH CONCRETE CURB
N.T.S.



- NOTE:
1. ALL EXPOSED CONCRETE EDGES (HORIZONTAL AND VERTICAL) SHALL BE 1/2" RADIUS

STANFORD UNIVERSITY FACILITY OPERATIONS				DWG.
Drawing Title: CONCRETE CURB AND GUTTER				CS-291
Scale: NTS	Check: Tom Z.	Rev. By: O.G.	Rev. Date: 05/17/08	

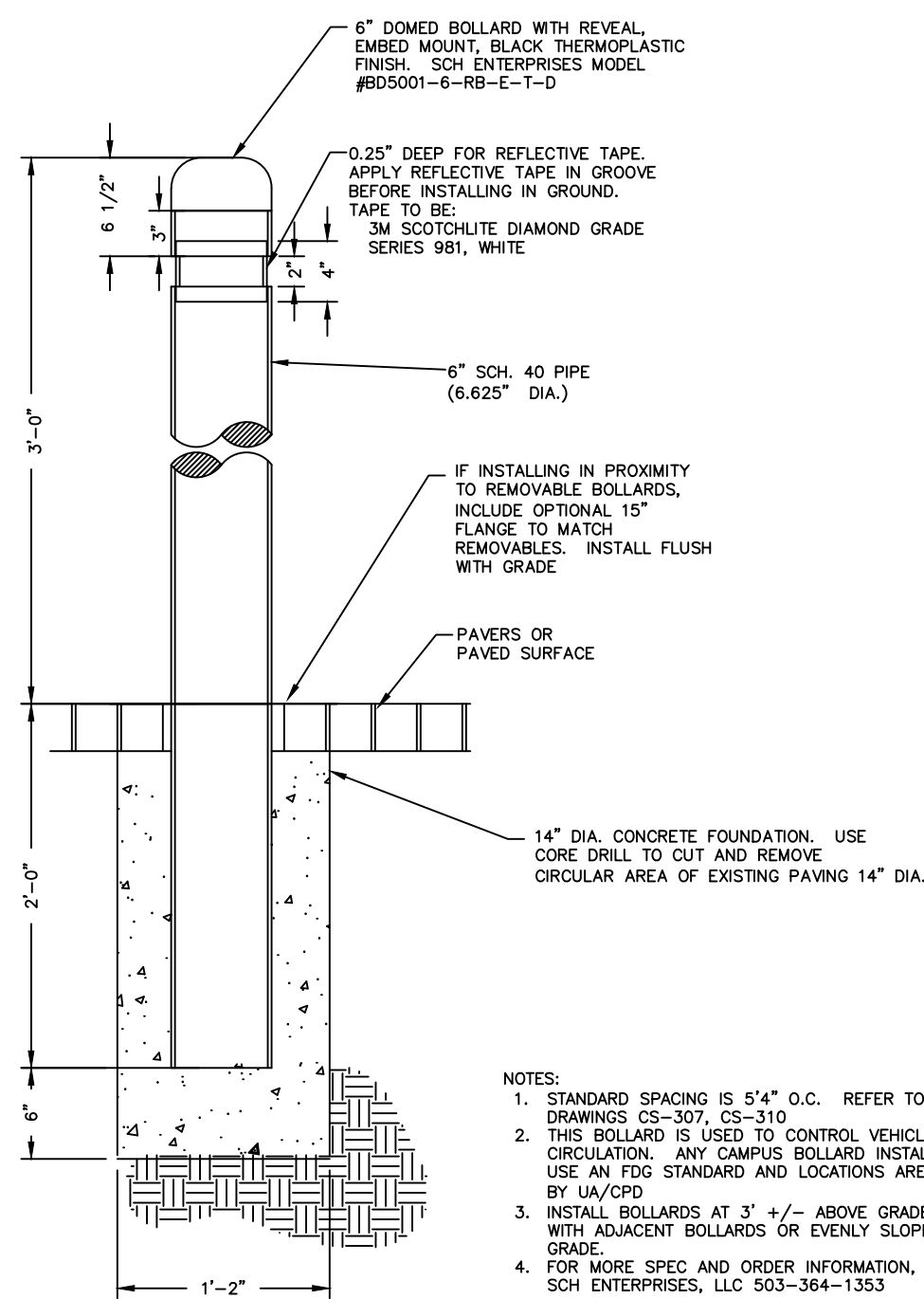
3 CONCRETE CURB AND GUTTER
N.T.S.



- NOTE: INSTALL BOLLARDS AT 3' ± ABOVE GROUND LEVEL WITH ADJACENT BOLLARD(S)
- SUPPLIER/MANUFACTURER: BOLLARDS AND TAPES STANFORD UNIVERSITY FACILITIES OPERATIONS, METAL SHOP 315 BONAR SIDING TEL. (850) 725-3172
- STANDARD SPACING: 5'-4" O.C.
FIRE ACCESS SPACING: SEE FDC DETAIL

STANFORD UNIVERSITY FACILITY OPERATIONS				DWG.
Drawing Title: BOLLARD - METAL REMOVABLE				CS-308
Scale: NTS	Check: D. CANINO	Rev. By:	Rev. Date: 03/07/11	

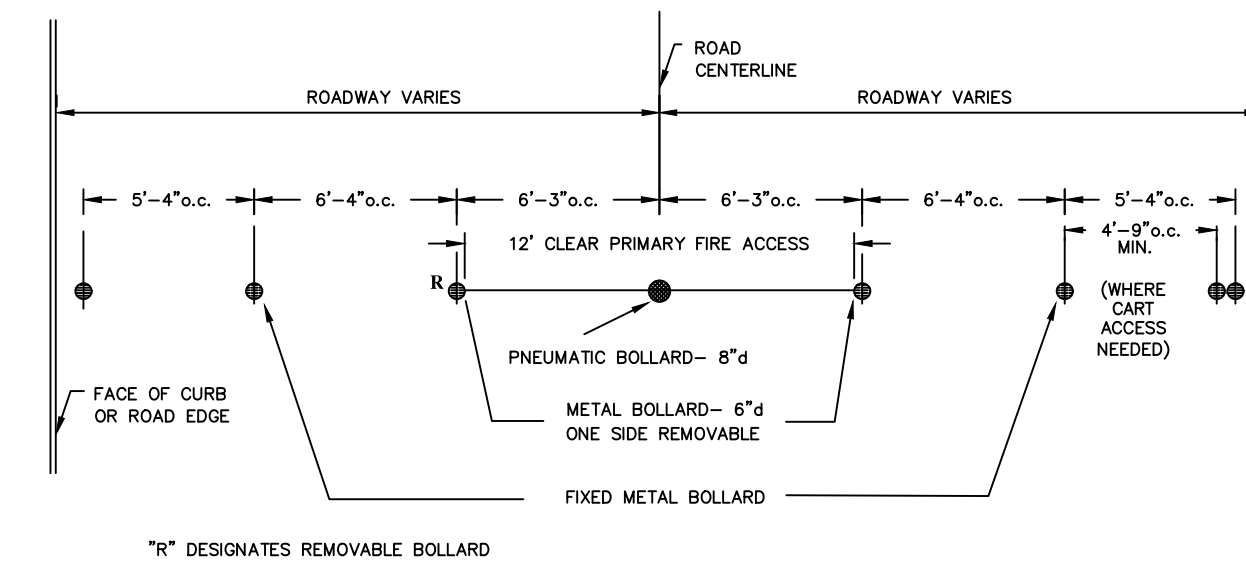
4 BOLLARD - METAL REMOVABLE
N.T.S.



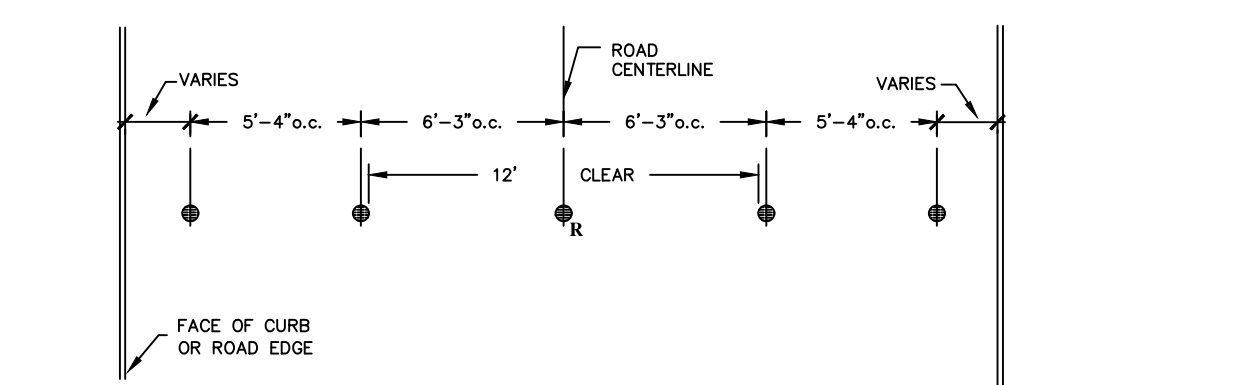
- NOTES:
1. STANDARD SPACING IS 5'-4" O.C. REFER TO FDC DRAWINGS CS-307, CS-310
 2. THIS BOLLARD IS USED TO CONTROL VEHICLE CIRCULATION. ANY CAMPUS BOLLARD INSTALLATION MUST USE AN FDC STANDARD AND LOCATIONS ARE APPROVED BY UAF/CSO
 3. INSTALL BOLLARDS AT 3' +/- ABOVE GRADE. LEVEL WITH ADJACENT BOLLARDS OR EVENLY SLOPED WITH GRADE.
 4. FOR MORE SPEC AND ORDER INFORMATION, CONTACT SCH ENTERPRISES, LLC 503-364-1353

STANFORD UNIVERSITY FACILITY OPERATIONS				DWG.
Drawing Title: BOLLARD - METAL FIXED				CS-309
Scale: NTS	Check: D. Brown	Rev. By:	Rev. Date: 01/10/21	

5 BOLLARD - METAL FIXED
N.T.S.



PRIMARY ACCESS FIRE ROUTE (ENTRY)
METAL BOLLARDS ADJACENT TO PNEUMATIC BOLLARDS



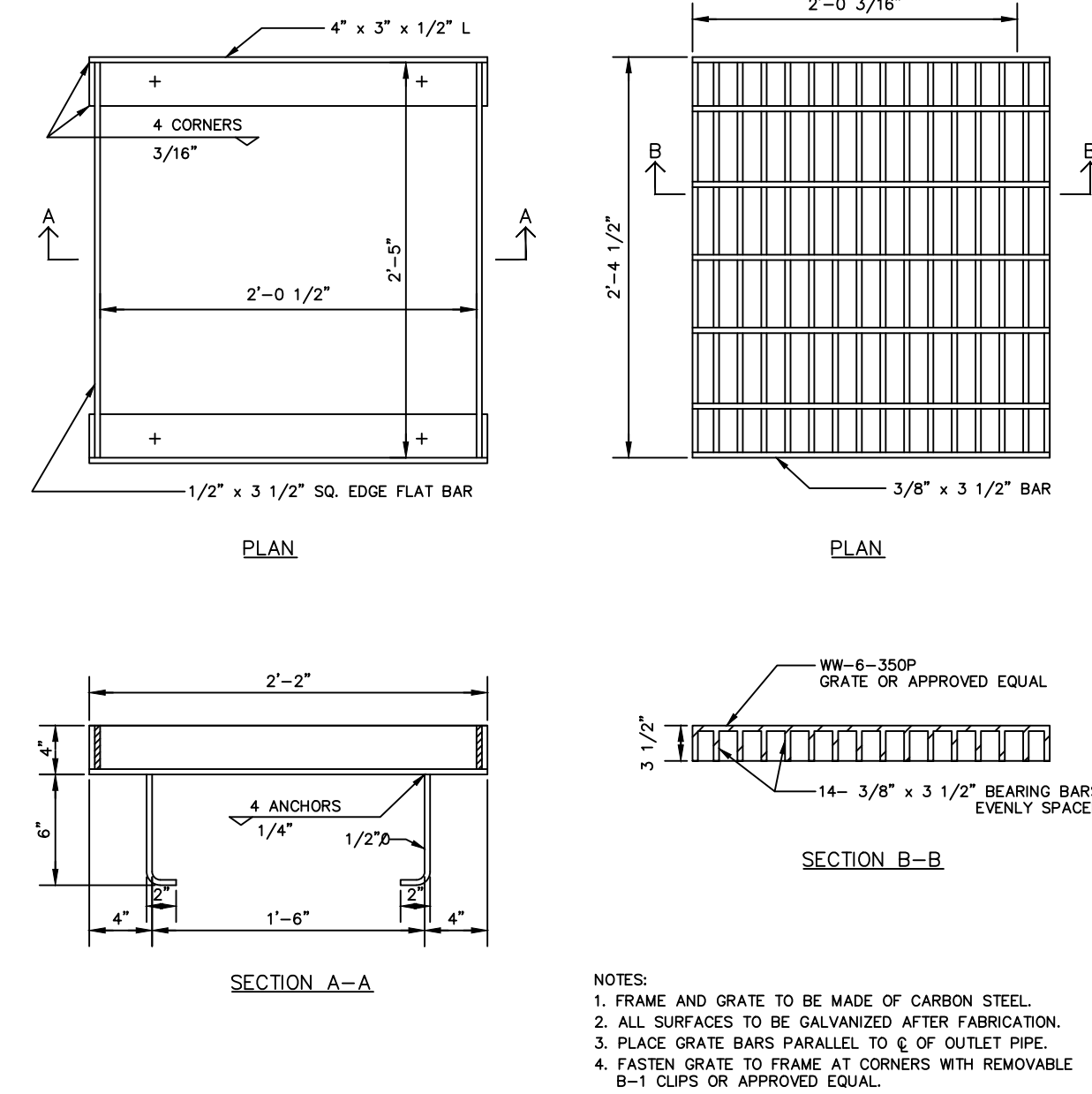
SECONDARY FIRE ACCESS ROUTE (EXIT)

- PRIMARY FIRE ACCESS ROUTE SATISFIES IDEAL CRITERIA FOR FIRE TRUCK ACCESS TO BUILDINGS, AND SHOULD BE THE PREFERRED ROUTE TO A LOCATION.
- SECONDARY ACCESS ROUTES HAVE LESS DESIRABLE CRITERIA BUT STILL FUNCTION AS ACCESS TO AND FROM A LOCATION.

STANFORD UNIVERSITY FACILITY OPERATIONS				DWG.
Drawing Title: BOLLARD FIRE ACCESS SPACING - METAL REMOVABLE				CS-310
Scale: NTS	Check: D. CANINO	Rev. By:	Rev. Date: 03/18/11	

6 BOLLARD FIRE ACCESS SPACING
N.T.S.

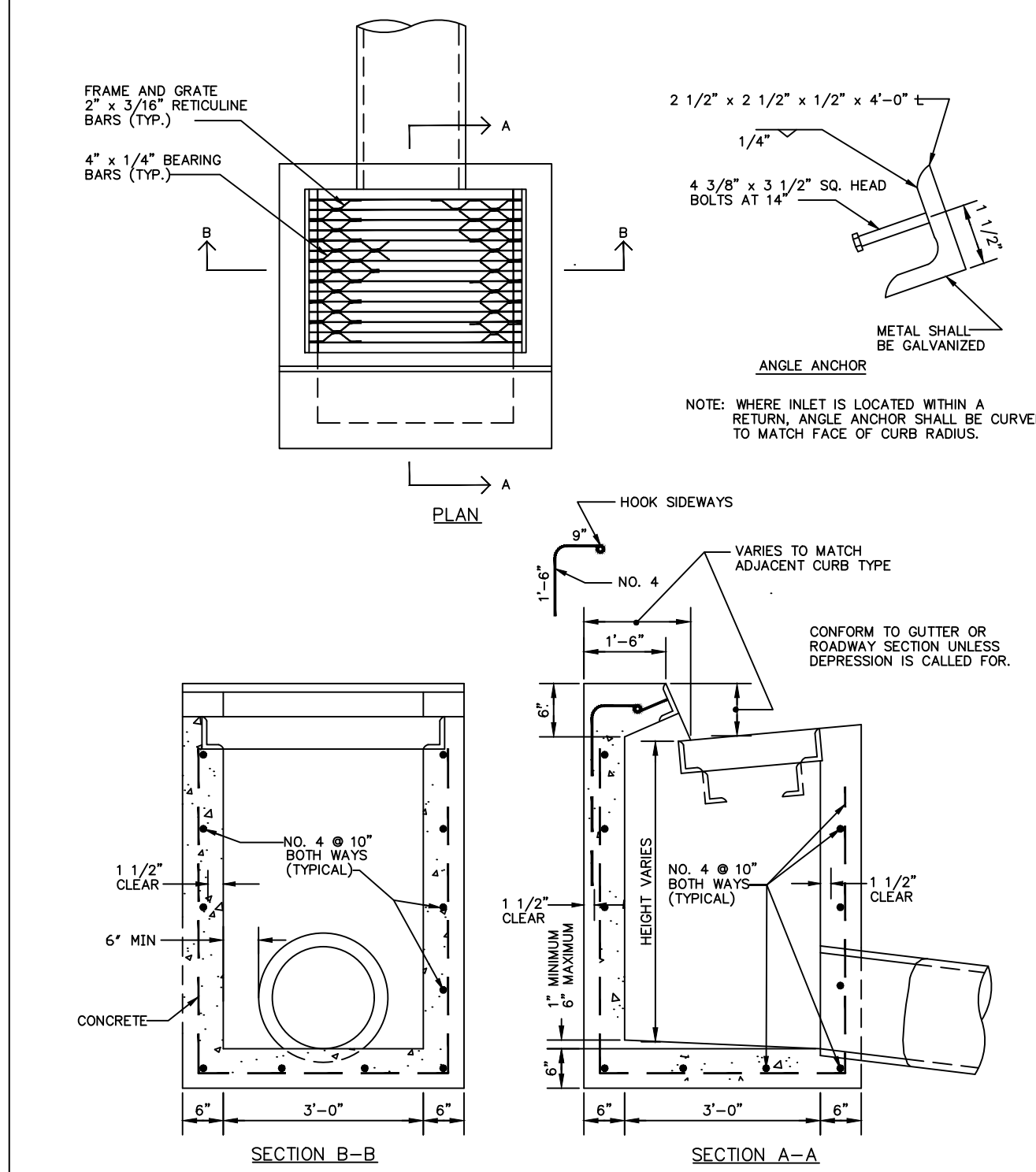
NOTE: THIS GRATE TO BE USED ONLY IN LANDSCAPED AREAS. IN PAVED AREAS USE THE RETICULINE FRAME AND GRATE SHOWN IN DETAIL CS-265



NOTES:
1. FRAME AND GRATE TO BE MADE OF CARBON STEEL.
2. ALL SURFACES TO BE GALVANIZED AFTER FABRICATION.
3. PLACE GRATE BARS PARALLEL TO Q. OF OUTLET PIPE.
4. FASTEN GRATE TO FRAME AT CORNERS WITH REMOVABLE B-1 CLIPS OR APPROVED EQUAL.

	STANFORD UNIVERSITY FACILITY OPERATIONS				DWG.
	Drawing Title: FRAME AND GRATE FOR STORM DRAIN INLET AND CLEANOUT				
Scale: NTS	Check: STEVE BUI	Rev. By: OG	Rev. Date: 01/05/17	CS-272	

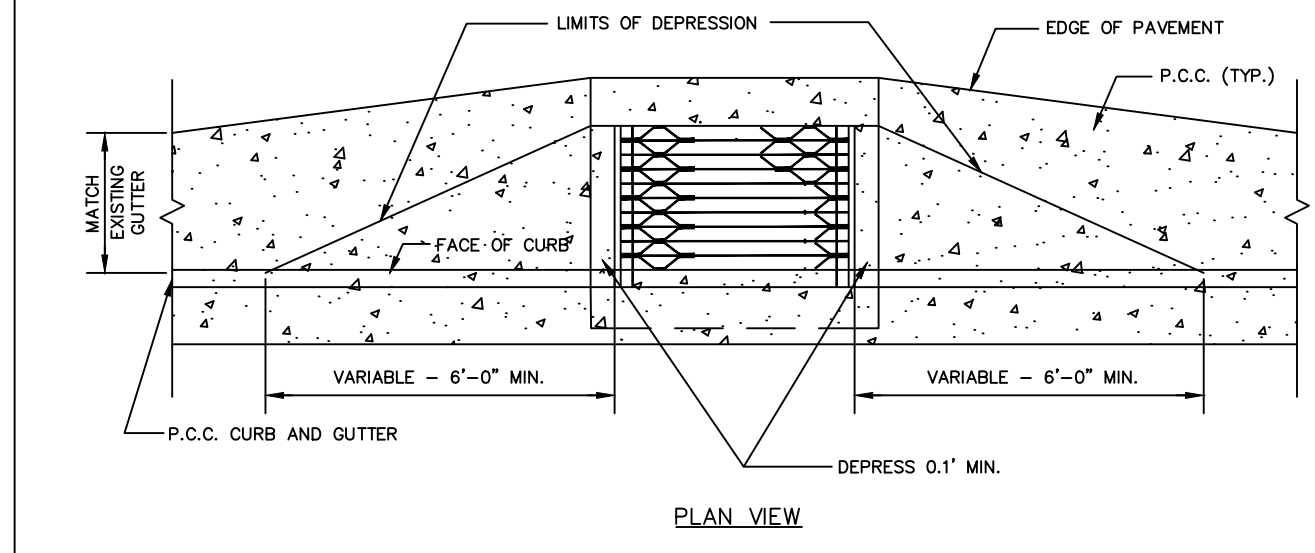
1 DRAIN INLET FRAME + GRATE IN LANDSCAPING
N.T.S.



NOTE: PRE-CAST CATCH BASINS SUBJECT TO APPROVAL OF STANFORD WATER DEPARTMENT.

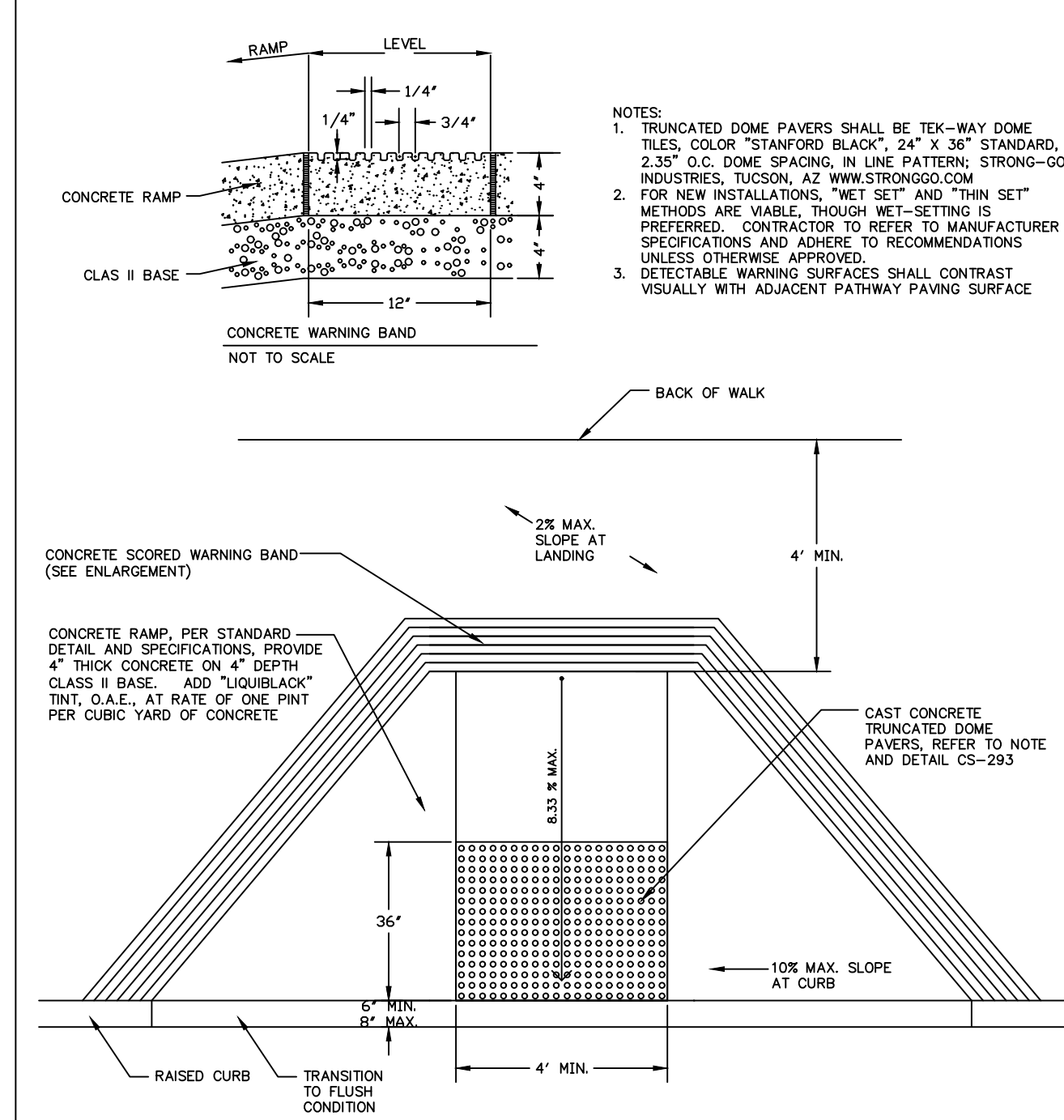
	STANFORD UNIVERSITY FACILITY OPERATIONS				DWG.
	Drawing Title: STANFORD CURB INLET				
Scale: NTS	Check: KTS	Rev. By: OG	Rev. Date: 01/09	CS-263	

2 CURB INLET
N.T.S.



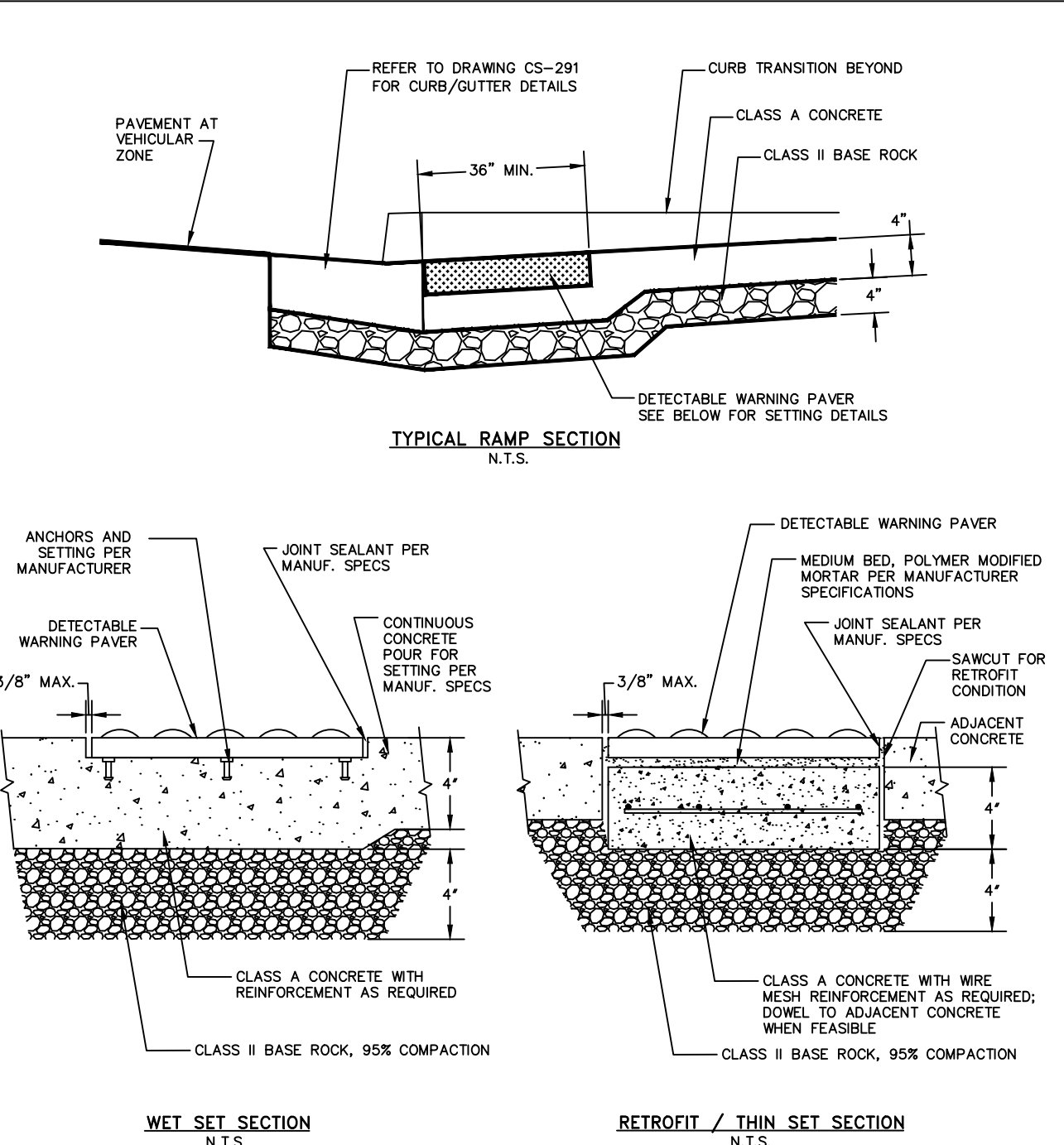
	STANFORD UNIVERSITY FACILITY OPERATIONS				DWG.
	Drawing Title: P.C.C. GUTTER DEPRESSION				
Scale: NTS	Check: KTS	Rev. By: OG	Rev. Date: 01/09	CS-264	

3 P.C.C. GUTTER DEPRESSION
N.T.S.



	STANFORD UNIVERSITY FACILITY OPERATIONS				DWG.
	Drawing Title: FLARED ADA RAMP WITH DETECTABLE WARNING PAVER				
Scale: NTS	Check: Drew B.	Rev. By: D.B.	Rev. Date: 02/23/15	CS-292	

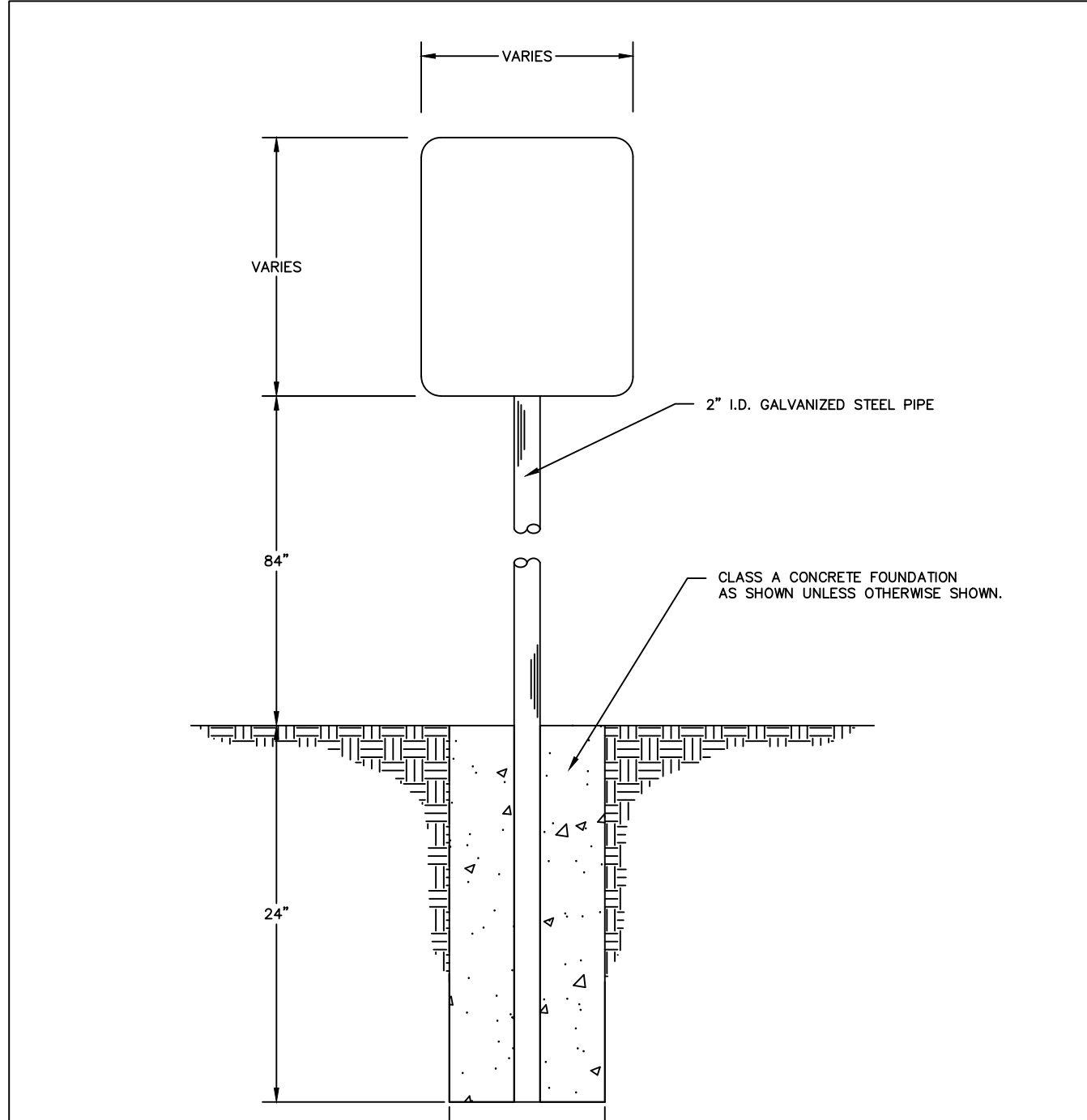
4 FLARED ADA RAMP WITH DETECTABLE WARNING PARVER
N.T.S.



NOTES:
1. TRUNCATED DOME PAVERS SHALL BE TEX-WAY DOME TILES, COLOR 'STANFORD BLACK', 24\"/>

	STANFORD UNIVERSITY FACILITY OPERATIONS				DWG.
	Drawing Title: DETECTABLE WARNING PAVER INSTALLATION DETAIL				
Scale: NTS	Check: Drew B.	Rev. By: D.B.	Rev. Date: 02/23/15	CS-293	

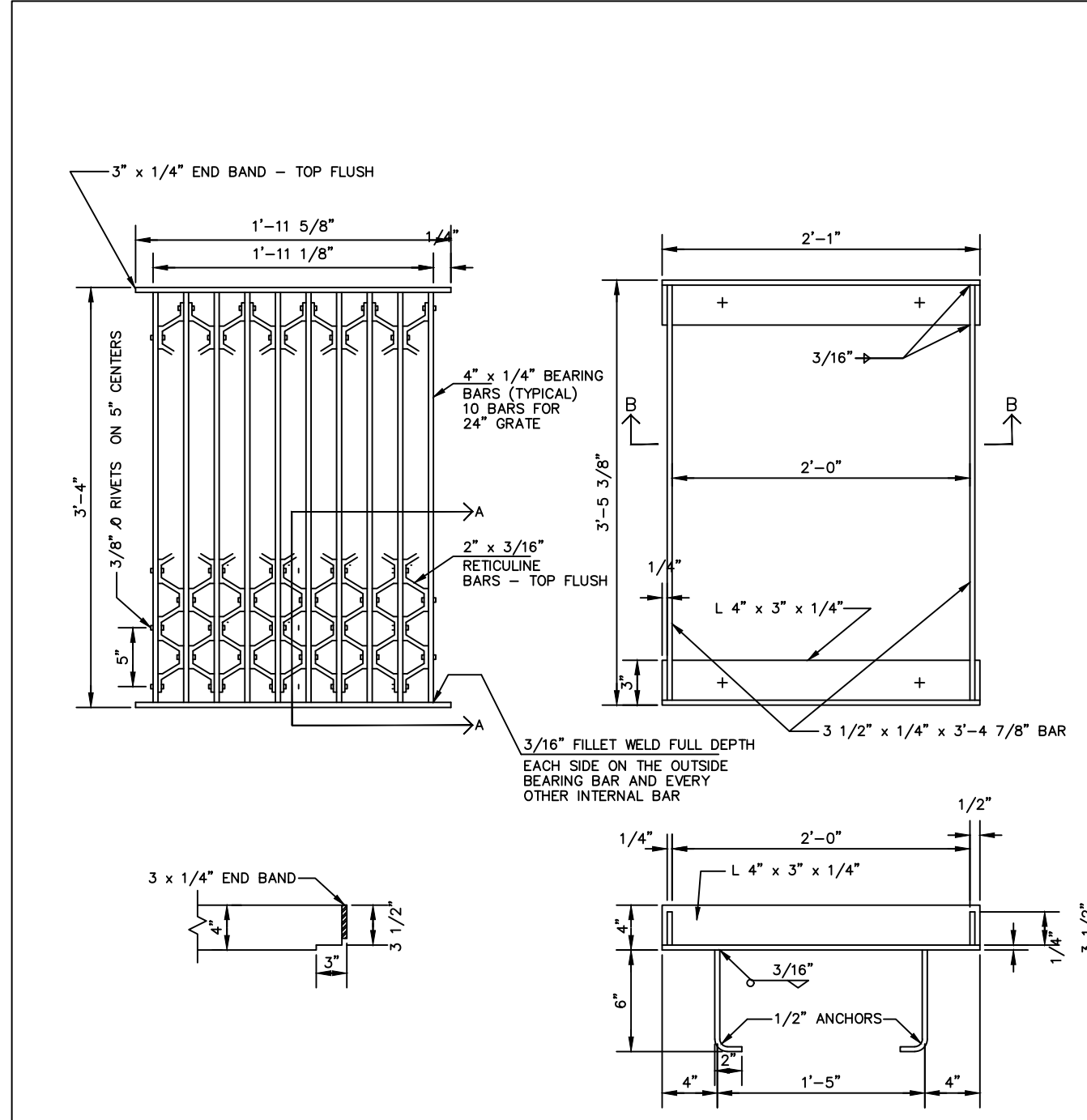
5 DETECTABLE WARNING PAVER INSTALLATION
N.T.S.



NOTES:
1. SIGN SHALL BE 0.08\"/>

	STANFORD UNIVERSITY FACILITY OPERATIONS				DWG.
	Drawing Title: SIGN AND POST				
Scale: NTS	Check: T. Leong	Rev. By: O.G.	Rev. Date: 02/24/15	CS-294	

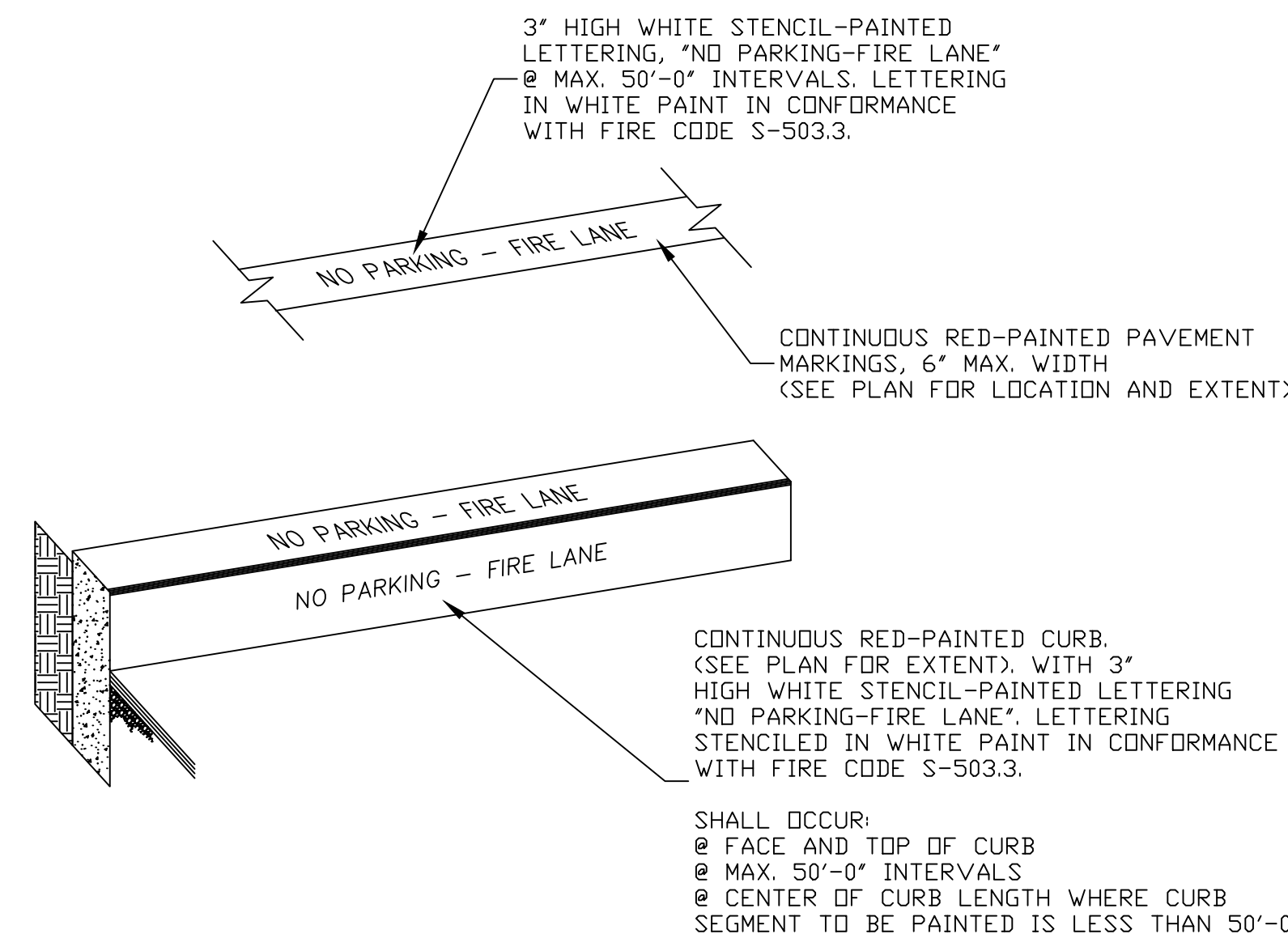
6 SIGN AND POST
N.T.S.



NOTES:
1. HINGED GRATE ONLY WHEN SPECIFIED.
2. PLACE GRATE BARS PARALLEL TO FLOW.
3. FRAME, GRATE AND ANCHORS SHALL BE GALVANIZED AFTER FABRICATION.
4. FRAME AND GRATE TO BE WELDED STEEL OR WRITTEN APPROVED ALTERNATIVE.

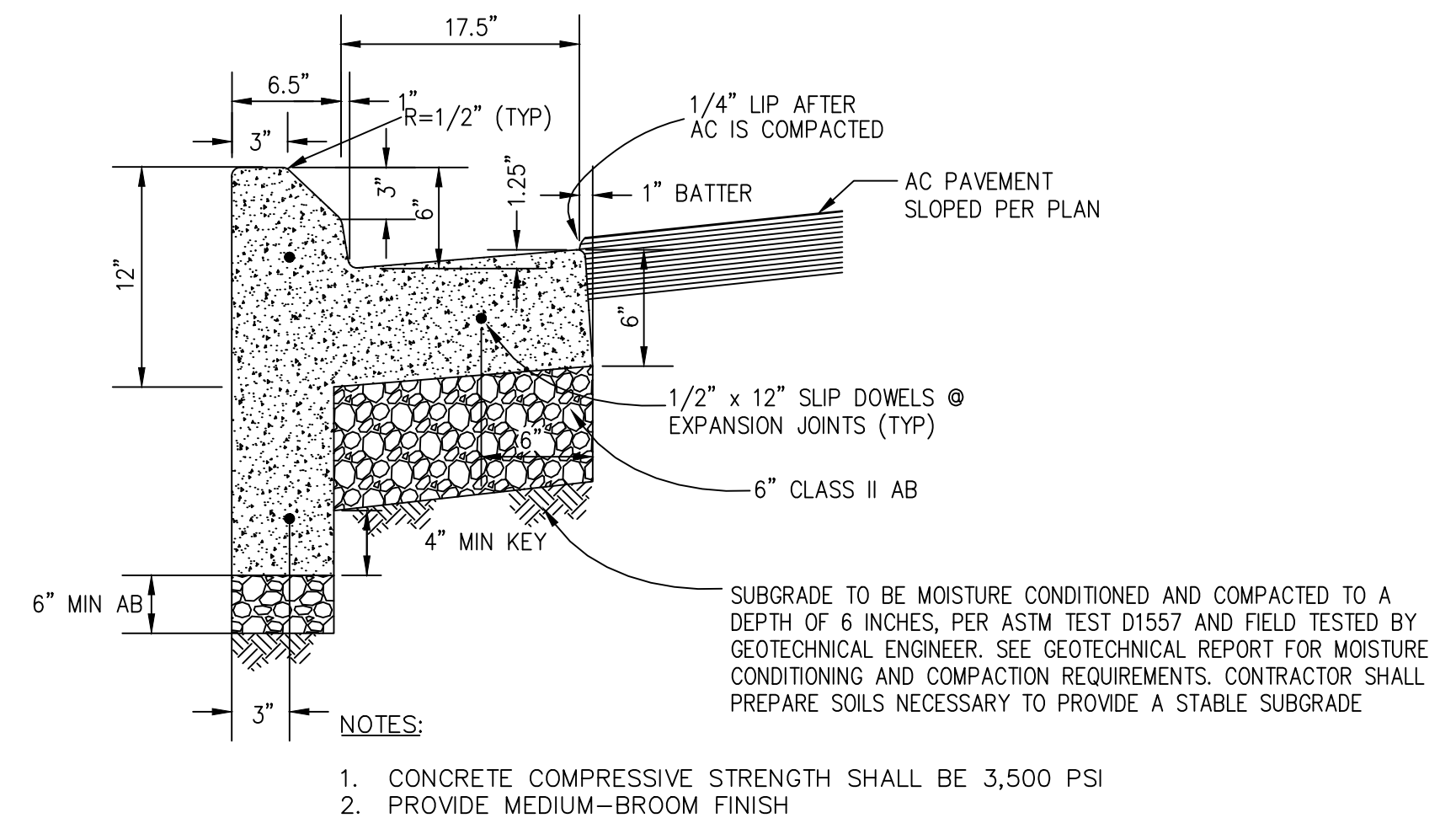
	STANFORD UNIVERSITY FACILITY OPERATIONS				DWG.
	Drawing Title: RETICULINE FRAME AND GRATE				
Scale: NTS	Check: KTS	Rev. By: OG	Rev. Date: 01/09	CS-265	

7 RETICULINE FRAME AND GRATE
N.T.S.



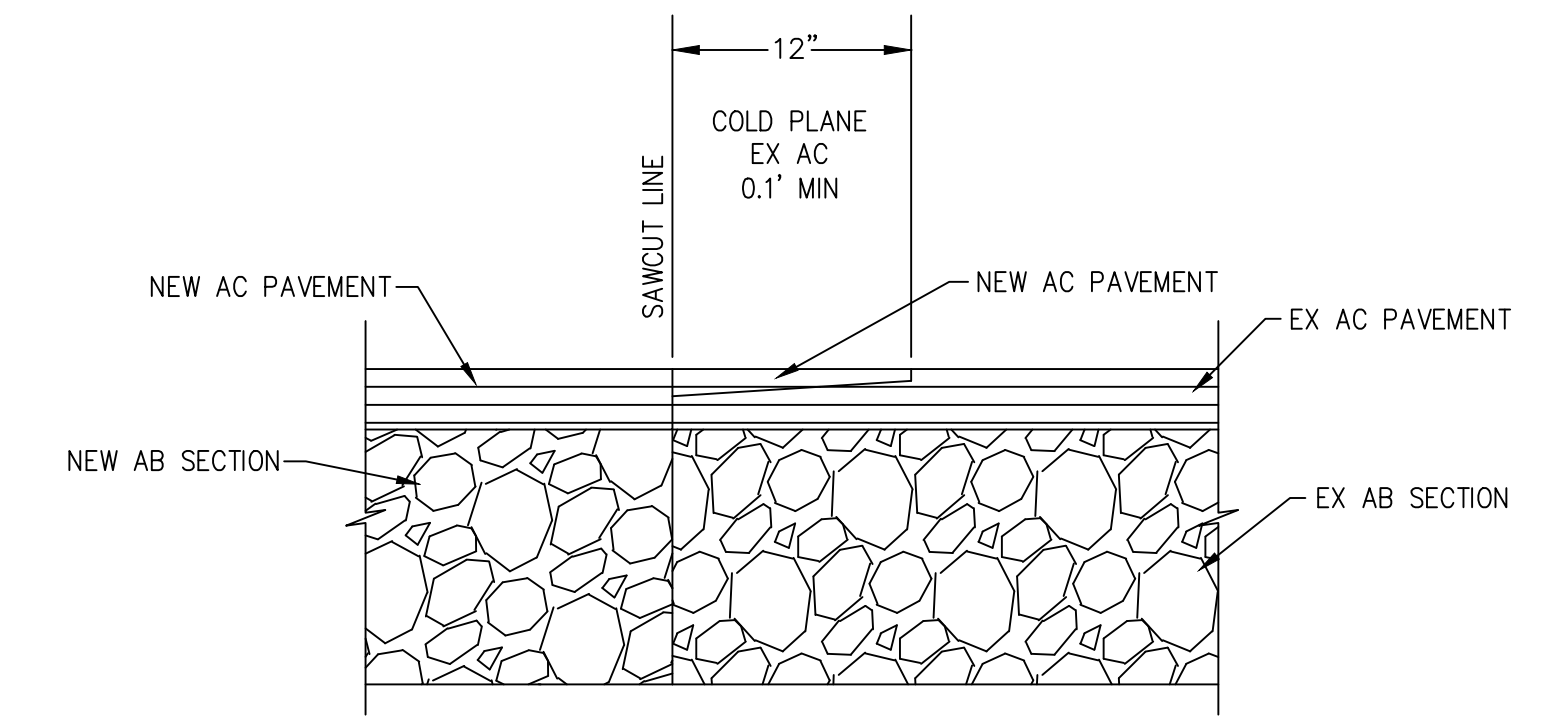
- NOTES:
- TEMPERATURE DURING APPLICATION SHALL NOT BE LESS THAN 60° F.
 - CURB SHALL BE DRY TWO DAYS PRIOR TO APPLICATION.
 - ALL RED CURBING REMOVED, SHALL BE REPLACE WITH SAME.
 - RED CURB PAINT SHALL BE J.E. BAUER ZONE LAC CURB PAINT NO. 2052A9, RED LATEX BASE DR EQUAL.

1 FIRE LANE RED CURB STRIPING
N.T.S.



- NOTES:
- CONCRETE COMPRESSIVE STRENGTH SHALL BE 3,500 PSI
 - PROVIDE MEDIUM-BROOM FINISH

2 CHAMFERED CURB AND GUTTER
N.T.S.

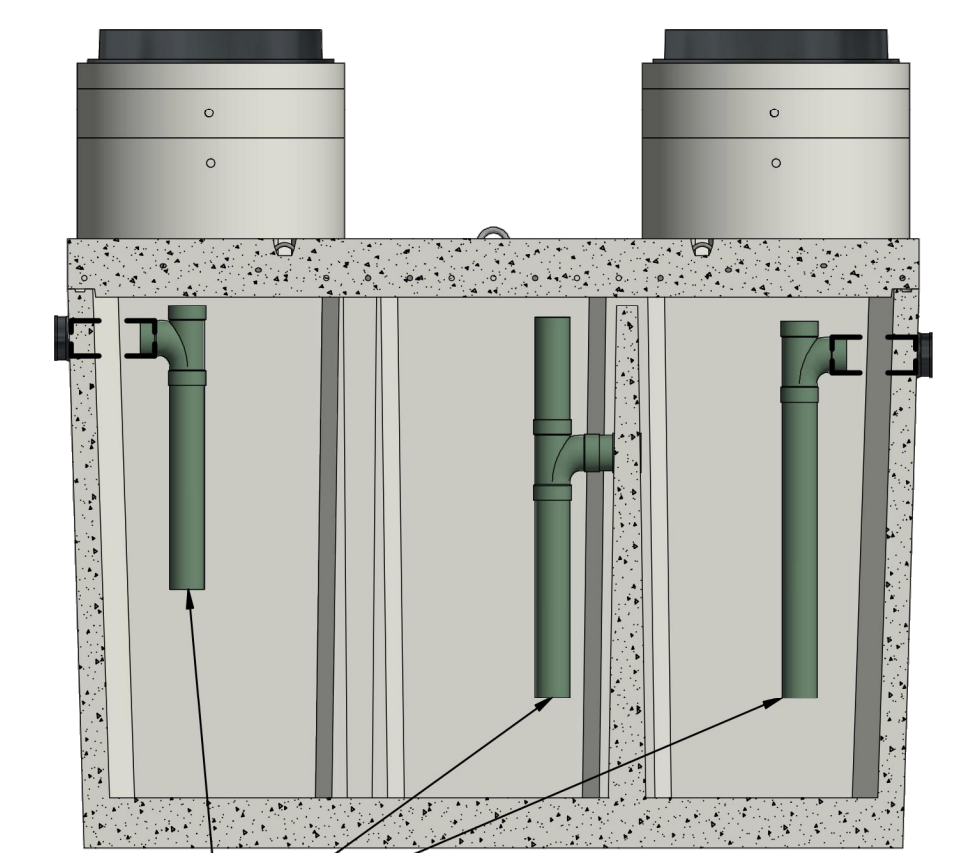
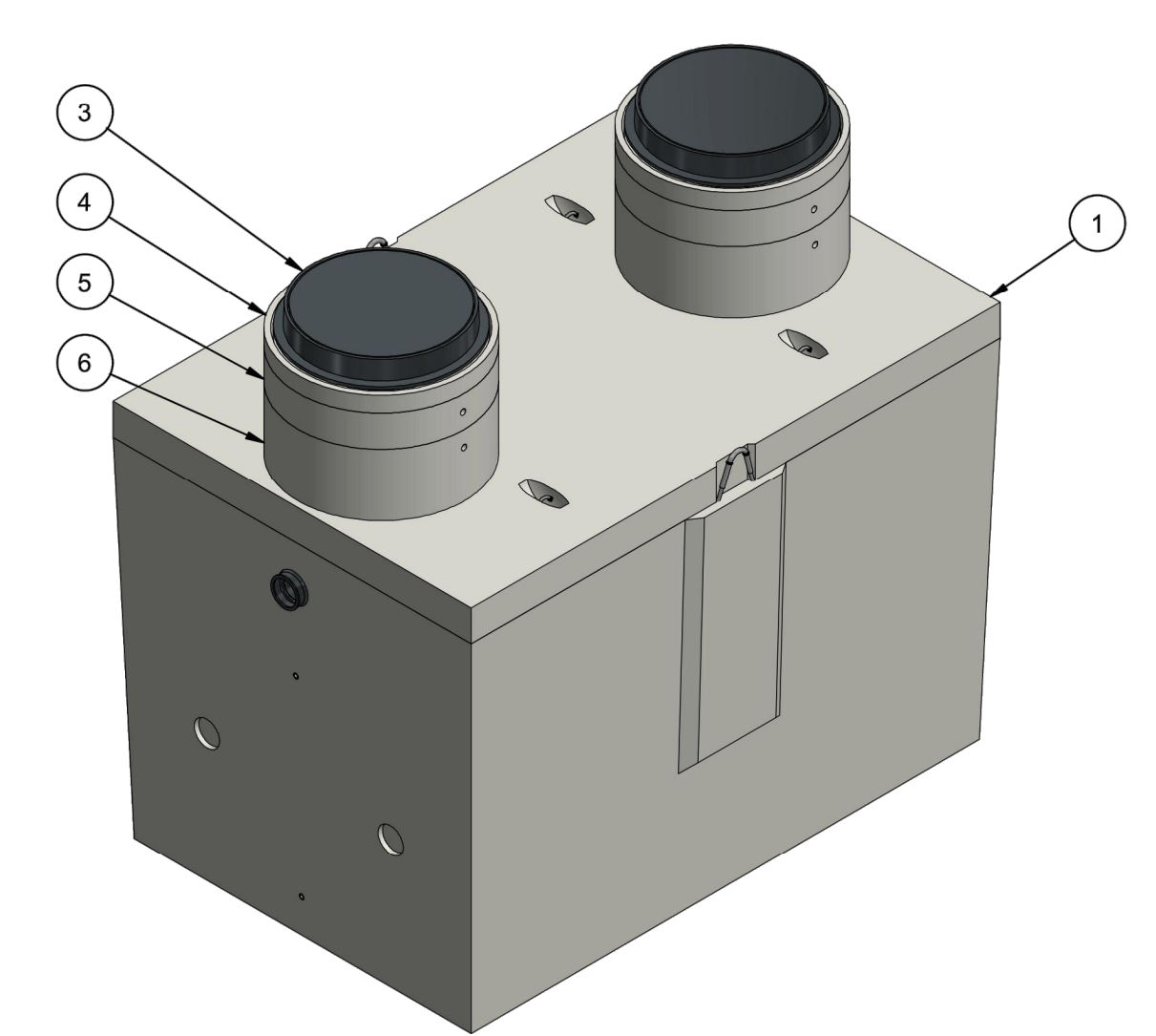


3 PAVEMENT CONFORM
N.T.S.

NOTES

- IN COMPLIANCE WITH UNIFORM PLUMBING CODE (UPC), INTERNATIONAL PLUMBING CODE (IPC), AND STRUCTURAL LOADING REQUIREMENTS OF ASTM INTERNATIONAL C1613.
- JENSEN PRECAST'S PRODUCT IS LISTED BY IAPMO R&T TO STANDARD Z1001.
- MODEL JP-1200-EE-G
- MUST BE INSTALLED PER "JENSEN PRECAST UNDERGROUND WASTEWATER PRECAST CONCRETE TANK INSTALLATION PROCEDURE" WHICH CAN BE FOUND AT <https://www.jensenprecast.com/Tank-Installation-Procedure-d2106.pdf>. THIS PROCEDURE ADDRESSES REQUIRED EXCAVATION, SITE PREPARATION, INSTALLATION, VENTILATION, AND WATER/VACCUM TESTING

BILL OF MATERIALS				
ITEM	QTY	PART NUMBER	DESCRIPTION	WEIGHT (LBS)
1	1	200017871	Tank JP 1200 Gallon 4 Inch Assembly EE Single Baffle	13791
2	1	200048776	200030234 Plumbing - JP 1200 4 Inch Gravity Grease Interceptor 24"E, 24"E Single Baffle	10
3	JOB SPECIFIC	100005850	CI RINGCOVER 24DIA B-5105-02/B-5105-R2 ASTM A48 CL35B CP O-RING GASKET OSI JENSEN/INTERCEPT	196
4	JOB SPECIFIC	100001524	Grade Ring D2432x3	87
5	JOB SPECIFIC	100001525	Grade Ring D2432x6	180
6	JOB SPECIFIC	100001526	Grade Ring D2432x12	365
7	JOB SPECIFIC	100012046	Plug Cover D2428x6 Slab Top	300



**MODEL:
JP-1200-EE-G**

REVISION HISTORY			
REV	DESCRIPTION	DATE	BY
A	DRAWING CREATED	10/4/2019	J HILLMAN
B	TOP SLAB LIFTING AND PLUMBING UPDATED	2/5/2021	C.Keller
C	ACCESSORIES UPDATED	6/29/2022	E.FINE

LAYOUT REVIEW			
PART NUMBER:	200030234	DRAWN BY:	E. Fine
CREATED:	1/31/2019	MODIFIED:	6/29/2022

BURY DEPTH:	1.1' - 6.0' to Top
WATER LEVEL:	Below Structure
DESIGN SPEC:	ASTM C890, ACI 318
REINFORCEMENT TYPE:	

WEIGHT:	15757.04 Lbs
LOADING SPEC:	A-16 (AASHTO HS20-44)
LIFTING TYPE:	



©2019 Jensen Precast. All rights reserved. All materials appearing on Jensen Precast documents and the like are proprietary work product and are protected under U.S. copyright and other laws. Unless in conjunction with business conducted with Jensen Precast any use of Jensen Precast work product without express written consent is prohibited, and recipient is prohibited from distributing any and all work product to non-approved third parties under penalty of civil action.

4 1,200 GALLON GREASE INTERCEPTOR
N.T.S.

5'-0"x7'-0"x7'-0"

TYPICAL COVER (NOTE 1)

Vault Includes:

- 7/8" DIA. PULL IRONS (5 EA.)
- 14" DIA. 4" SUMP (1 EA.)
- 1" DIA. GROUND ROD KNOCK-OUTS (2 EA.)

Notes:

1. STANFORD HVOLT TO SPECIFY COVER STYLE. (SEE ES-17).
2. INSIDE VAULT DEPTH (FINAL DEPTH) TO BE ADJUSTED USING EXTENSIONS. (SEE ES-16).

SHEET 1 OF 3

STANFORD UNIVERSITY FACILITY OPERATIONS		DWG.
Drawing Title: MH TYPE "A"		
Scale: NTS	Check: D. LO	Rev. By: JEM Rev. Date: 07/17/00

ES-15

1 **5'X7' ELECTRICAL HANDHOLE**
N.T.S.

CATALOG NUMBER	W	L	D	LBS	OUTSIDE DIM.
35-R06-EXT	3'-0"	5'-0"	6"	520	3'-10"x5'-10"
35-R12-EXT	3'-0"	5'-0"	12"	970	3'-10"x5'-10"
35-R24-EXT	3'-0"	5'-0"	24"	1940	3'-10"x5'-10"

Notes:

CUSTOMER TO SPECIFY HEIGHT OF D1 & D2

CATALOG NUMBER	W	L	D1	D2	OUTSIDE DIM.
35-SW-EXT	3'-0"	5'-0"			3'-10"x5'-10"

CUSTOMER TO SPECIFY HEIGHT OF D1 & D2

CATALOG NUMBER	W	L	D1	D2	OUTSIDE DIM.
35-SSW-EXT	3'-0"	5'-0"			3'-10"x5'-10"

CUSTOMER TO SPECIFY HEIGHT OF D1 & D2

Note:

- * CATALOG NUMBER'S BY "UTILITY VAULT CO." (FOR REFERENCE ONLY)

SHEET 1 OF 2

STANFORD UNIVERSITY FACILITY OPERATIONS		DWG.
Drawing Title: FOR TYPE A, B, & C		
Scale: NTS	Check: D. LO	Rev. By: JEM Rev. Date: 06/26/00

ES-16

2 **ELECTRICAL VAULT GRADE RING RISERS**
N.T.S.

ASSEMBLY INCLUDES:

- * RECESSED I.D. PLATES (4 EA.)
- * 7/8" LIFTING INSERTS (4 EA.)
- * GALVANIZED STEEL SHELL
- * 5" X 5" GALVANIZED STEEL FRAME
- * 3/4" DIA. COIL ADJUSTMENT BOLTS
- * USE 2 COVERS IF REQUESTED

ASSEMBLY INCLUDES:

- * QUICK RELEASE, SLIP RESISTANT ALUMINUM PLATE.

Full Traffic Cover - Type "Y"
TYPE "Y" (FOR MH TYPE B & C)

Full Traffic Cover - Type "Z"
TYPE "Z" (FOR MH TYPE A, B, & C)

Notes:

1. SEE ES-21 FOR COVER DETAIL (36" MIN. OPENING).
2. CODE NUMBERS ARE BY "PG&E". (FOR REFERENCE ONLY)

SHEET 1 OF 2

STANFORD UNIVERSITY FACILITY OPERATIONS		DWG.
Drawing Title: TRAFFIC COVERS - TYPES "Y" & "Z"		
Scale: NTS	Check: D. LO	Rev. By: JEM Rev. Date: 06/26/00

ES-17

3 **5'X7' ELECTRICAL VAULT COVER**
N.T.S.

Area Drain/Cleanout

FINISH GRADE

BODY

CONCRETE COLLAR

GASKETED JOINT

APPROVED BACKFILL

6" PVC RISER, FIELD CUT RISER FOR ADJUSTMENT.

AREA DRAIN/CLEANOUT

MINIMUM SLOPE 1/4" PER FOOT UNLESS OTHERWISE NOTED

WYE

1/8" BENDS AS REQUIRED

PVC

ALTERNATE FOR DEEP SEWERS

SHEET 1 OF 2

STANFORD UNIVERSITY FACILITY OPERATIONS		DWG.
Drawing Title: TRAFFIC COVERS - TYPES "Y" & "Z"		
Scale: NTS	Check: D. LO	Rev. By: JEM Rev. Date: 06/26/00

ES-17

4 **NDS #6 AREA DRAIN & WYE CONNECTION**
N.T.S.

PLANTER BACKFILL

4"ø PERFORATED PIPE, WRAPPED IN FILTER FABRIC 12" OVERLAP

PLANTER WALL

CLASS 2 PERMEABLE DRAINAGE MATERIAL

3" TYPE

PERF PIPE SECTION

PLANTER WALL

PIPE SLEEVE 2" LARGER THAN PIPE

PLACE SLEEVE ON 1.0" MIN SAND LAYER AT BOTTOM OF WALL AND SLOPE AT 2.0% MIN TO PLANTER WALL DRAINAGE COLLECTION POINT

4" PERFORATED PVC PIPE(TYP) SEE SECTION

2.0% MIN

EL VARIES

SHEET 1 OF 2

STANFORD UNIVERSITY FACILITY OPERATIONS		DWG.
Drawing Title: PLANTER WALL DRAINAGE		
Scale: NTS	Check: D. LO	Rev. By: JEM Rev. Date: 06/26/00

ES-15

5 **PLANTER WALL DRAINAGE**
N.T.S.

FINISHED GRADE, MATERIAL VARIES-SEE PLANS

6"

TURF OR GROUND COVER

APPROVED GRAVEL BACKFILL

4"ø PERFORATED PIPE, WRAPPED IN FILTER FABRIC - SEE PLAN FOR LOCATIONS

GEOTEXTILE FILTER FABRIC - WRAP AND OVERLAP 12"

CLASS 1, TYPE A OR CLASS 2 PERMEABLE DRAINAGE MATERIAL

85-90% COMPACTED SUBGRADE

18" MIN

3"

1'-0"





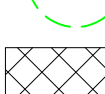
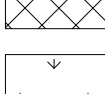
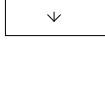
SHEET 1 OF 2

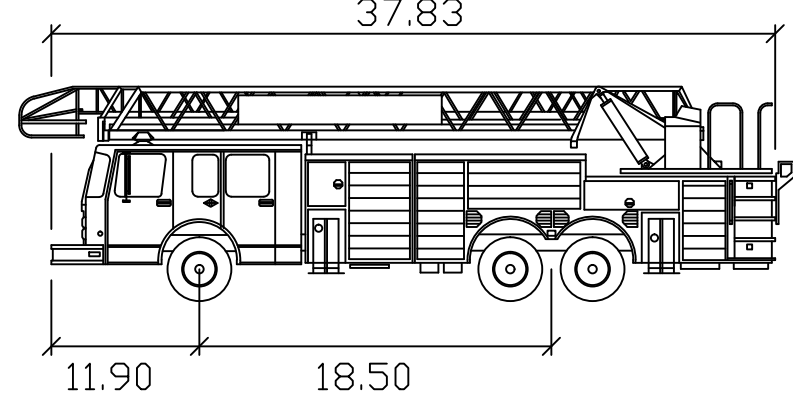
STANFORD UNIVERSITY FACILITY OPERATIONS		DWG.
Drawing Title: PERFORATED PIPE & TRENCH BACKFILL		
Scale: NTS	Check: D. LO	Rev. By: JEM Rev. Date: 06/26/00

ES-16

6 **PERFORATED PIPE & TRENCH BACKFILL**
N.T.S.

LEGEND

-  EXISTING FIRE HYDRANT
-  PROPOSED FIRE HYDRANT (3/09.01) (4/09.01)
-  PROPOSED FIRE DEPARTMENT CONNECTION (FDC) (2/09.01)
-  150' RADIUS FROM FIRE HYDRANT
-  TEMPORARY VEHICULAR ASPHALT FOR FIRE TRUCK TURNAROUND (2/10.09)
-  TURF BLOCK (1/10.09)
-  RED CURB PAINT, "NO PARKING, FIRE LANE" (1/09.01)

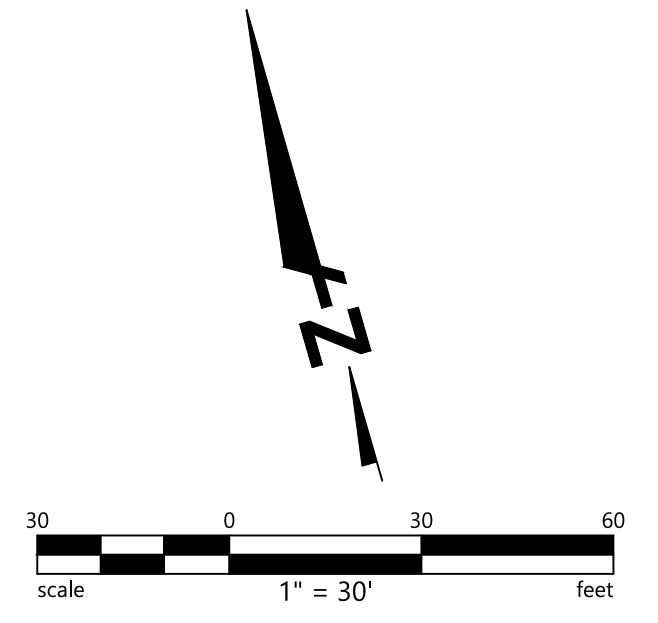
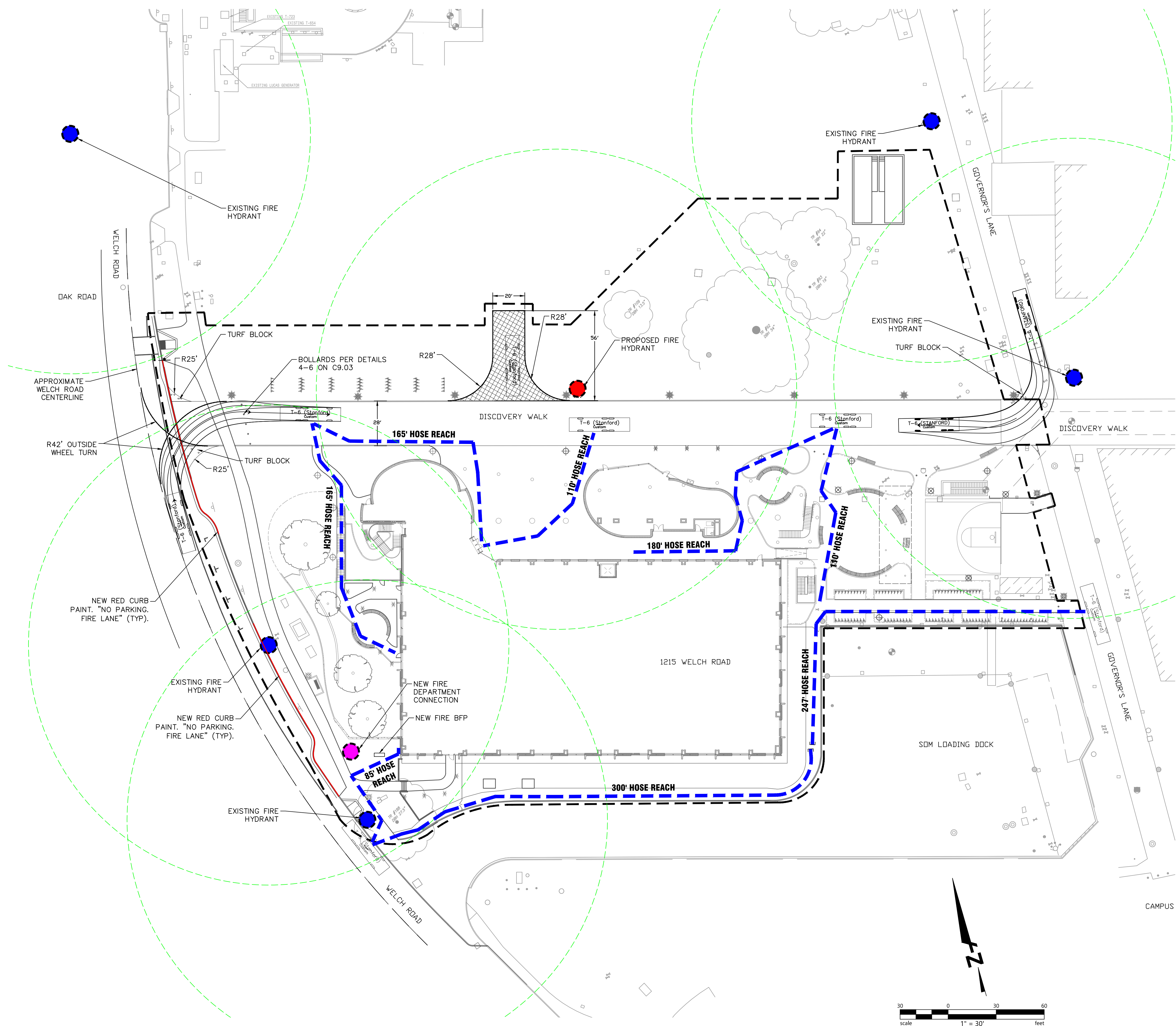
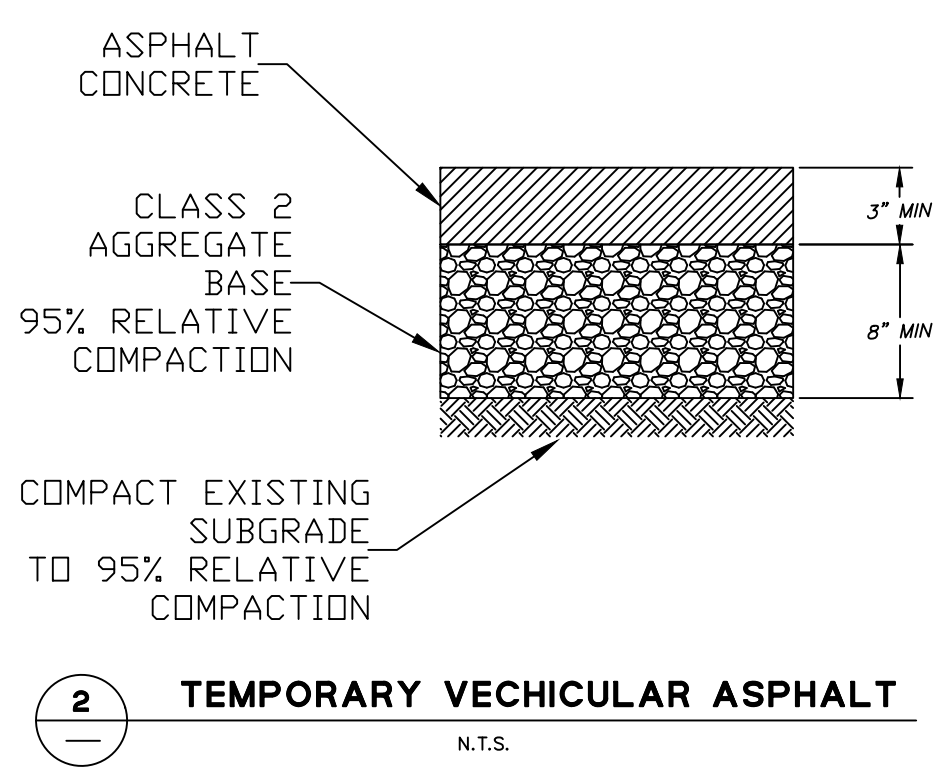
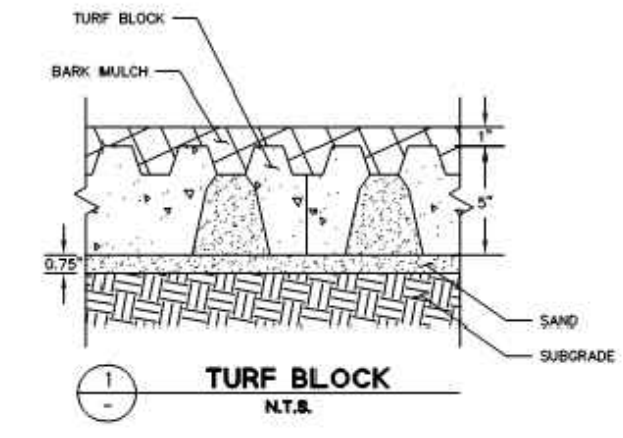


Fire Truck T Feet
Width : 8.50
Track : 8.00
Lock to Lock Time : 6.0
Steering Angle : 30.5

NOT TO SCALE

GENERAL NOTES:

1. PROPOSED ACCESS ROADS TO BE MADE OF AN ALL WEATHER MATERIAL COMPLIANT WITH 75,000 LB LOAD CAPACITY.
2. FIRE WATER BFP, FDC, AND HYDRANTS TO HAVE A MINIMUM 3 FOOT CLEARANCE FROM ALL DEVICES AND OTHER SITE OBSTRUCTIONS. ALL FIRE WATER DEVICES MUST BE CLEARLY VISIBLE.
3. TURF BLOCK SHALL BE SET 1" BELOW FLUSH CURB AND TOPPED WITH 1" OF BARK MULCH.



ABBREVIATIONS

A.D.	AREA DRAIN	LAM.	LAMINATED
A.S.F.	ABOVE SUB FLOOR	LAV.	LAVATORY
ADJ.	ADJUSTABLE	LBS.	POUNDS
A.F.F.	ABOVE FINISH FLOOR	LP	LOW POINT
ALUM.	ALUMINUM	L.O.W.	LIMIT OF WORK
APPROX.	APPROXIMATELY	MAX.	MAXIMUM
ATTN.	ATTENTION	MECH.	MECHANICAL
BATHRM.	BATHROOM	MFR.	MANUFACTURER
B.C.	BOTTOM OF CURB	MIN.	MINIMUM
BLDG.	BUILDING	MTL.	METAL
BLKG.	BLOCKING	(N)	NEW
BD.	BOARD	NA	NOT APPLICABLE
BOT	BOTTOM	N.I.C.	NOT IN CONTRACT
B.O.S.	BOTTOM OF STAIR	NO.	NUMBER
B.W.	BOTTOM OF WALL	NOM.	NOMINAL
BTWN.	BETWEEN	N.T.S.	NOT TO SCALE
B.O.W.	BACK OF WALK	O.C.	ON CENTER
C.B.	CATCH BASIN	O.D.	OUTSIDE DIMENSION OR DIAMETER
CAB.	CABINETY	O.H.	OVERHEAD
C.I.P.	CAST IN PLACE	OPNG.	OPENING
C.J.	CONTROL JOINT	OPP.	OPPOSITE
CL	CENTER LINE	PED.	PEDESTRIAN
CLG.	CEILING	P.D.	PLANTER DRAIN
CLR.	CLEAR	P.L.	PROPERTY LINE
CMU	CONCRETE MASONRY UNIT	P.LAM	PLASTIC LAMINATE
COL.	COLUMN	PLAS.	PLASTER
CONC.	CONCRETE	PLYWD.	PLYWOOD
CONT.	CONTINUOUS	P.P.	PERFORATED PIPE
C.O.S.	CENTER OF STEEL	PREFAB	PREFABRICATED
CP	CENTER POINT	PTD.	PAINTED
C.T.	CERAMIC TILE	QTY.	QUANTITY
CTR.	CENTER	RAD.	RADIUS
DEMO	DEMOLITION	REF.	REFERENCE
DIA.	DIAMETER	REINF.	REINFORCING
DIM.	DIMENSION	REQ'D.	REQUIRED
DN	DOWN	RET.	RETURN
DTL.	DETAIL	REV.	REVISION
DWG.	DRAWING	RIM	RIM ELEVATION
(E)	EXISTING	R.L.	RIDGE LINE
EA	EACH	RM	ROOM
E.J.	EXPANSION JOINT	R.O.W.	RIGHT OF WAY
ELEC.	ELECTRICAL	S.A.D.	SEE ARCHITECTURAL DRAWINGS
ELEV.	ELEVATION	S.S.D.	SEE STRUCTURAL DRAWINGS
ENGL.	ENLARGEMENT	S.C.D.	SEE CIVIL DRAWINGS
ENGR.	ENGINEER	SCHED.S.D.	SCHEDULE
EQ.	EQUAL	S.D.L.	SUBDRAINAGE LINE
E.W.	EACH WAY	S.F.	SQUARE FEET
EXP.	EXPANSION	S.G.B.	SOFT GRADE BREAK
EXT.	EXTERIOR	SHT.	SHEET
EXT'G	EXISTING	SIM.	SIMILAR
F.O.F.	FACE OF FINISH	S.J.	SCORE JOINT
F.B.O.	FURNISHED BY OWNER	SPEC.	SPECIFICATION
FF	FINISHED FLOOR	SQ.	SQUARE
F.G.	FINISH GRADE	S.S.	STAINLESS STEEL
FIN.	FINISH	STD.	STANDARD
FL	FLOW LINE	STL.	STEEL
FLR.	FLOOR	STRUCT.	STRUCTURAL
F.O.B.	FACE OF BUILDING	SUSP.	SUSPENDED
F.O.C.	FACE OF CONCRETE	T.C.	TOP OF CURB
F.P.	FINISH PAVEMENT	TH.	THRESHOLD
FT.	FOOT OR FEET	THK.	THICK
FTG.	FOOTING	T.O.	TOP OF
GA.	GAUGE	T.O.H.	TOP OF HEADER
GALV.	GALVANIZED	T.O.S.	TOP OF STAIR
G.B.	GRADE BREAK	T.O.W.	TOP OF WALL
GL.	GLASS	TYP.	TYPICAL
GLU-LAM.	GLUE LAMINATED	U.O.N.	UNLESS OTHERWISE NOTED
GWB	GYPSUM WALL BOARD	VAR.	VARIES
H.B.	HOSE BIB	VCT	VINYL COMPOSITE TILE
HDWR	HARDWARE	VERT.	VERTICAL
H.M.	HOLLOW METAL	V.I.F.	VERIFY IN FIELD
HP	HIGH POINT	W.C.	WATER CLOSET
HORIZ.	HORIZONTAL	WD	WOOD
HT.	HEIGHT	W/	WITH
I.D.	INSIDE DIMENSION	W/O	WITHOUT
IN.	INCH OR INCHES	W.P.M.	WATERPROOF MEMBRANE
INV.	INVERT	W.W.M.	WELDED WIRE MESH
J.B.	JUNCTION BOX		
JT.	JOINT		

ASA LANDSCAPE NARRATIVE:

Landscape Site Program and Design

The School of Medicine's (SoM) aspiration for the site design and landscape embraces three principles: Continue, Preserve and Accentuate. The approach to the site design is further informed by the relationships to neighboring buildings and entries, the extension of Discovery Walk from the East through to Welch Road to the West, and the preservation of existing tree resources where feasible. The new building and its site should not only fit seamlessly into the surrounding landscape, but they will also provide diverse and comfortable outdoor social spaces for new programming related to both the new School of Medicine research building and the courtyards and plazas formed to the north, east and west, all of which are meant to support either building activity or SoM campus-wide activities and events.

The Site Design includes the following landscape areas and elements as labeled in the plan:

The expansion of Discovery Walk from the intersection of Governor's Lane to the West, extending the paver type and pattern to the curb line at Welch Road. This extension will be considered fire access from Welch Road on the west and from Governors Lane on the east. The existing Coast Live Oak, number 92, see Arborist Report dated August 19th, 2024, is to be preserved to create a distinct experience along the north edge of Discovery Walk. That experience will be defined by this mature tree forming part of a future oak grove to frame the north edge of discovery walk as one passes by the east plaza situated to the south of Discovery Walk. A series of large, fixed furnishings along the south edge of Discovery Walk will provide opportunities for social interactions at the building entry and a new café on the south side of the walk. At the west end of Discovery Walk there will be removable bollard control to allow for fire and emergency access vehicles only.

The development of the East Plaza on the east side of the new building is framed by Discovery Walk to the north, Governors Lane to the east and the existing loading dock wall. There are existing structures in this area that are to be protected in place including the service elevator and exterior stairway from the loading/service area below. The program of this newly designed space includes SoM-wide events, café dining, informal meetings, reading, welcome and networking events, fitness and wellness such as pickup basketball, fitness classes and outdoor workout equipment. The new elements in this plaza space include unit pavers, raised planters, a shade trellis (running north-south), moveable and fixed seating and large benches, concrete paving, a paved half-court basketball court (on existing pavement), outdoor gym/workout equipment, and site lighting throughout for evening use. Along Discovery Walk there will be planting and group seating areas with tree plantings. Along the south edge of the plaza area there is screened bicycle parking and planters for vine planting at the existing screen and loading dock wall.

The Entry Plaza is characterized as a more building-oriented communal space beside and under the overhanging roof of the building. The program here is meant to accommodate informal, ad-hoc outdoor classrooms, building events and gatherings. In addition, this space will be used for spilling out from lobby and café activities such as holiday parties, grad receptions, lectures, seminars and training. The landscape space directly adjacent to the building lobby this is where a "carpet" of hardscape (unit pavers) will interweave and form a place to support informal socializing, gathering and building and café entry functions with generous space and seating under the cover of the building. This area is framed by the existing Oak to the north, Discovery Walk and the Café and building lobby. A "Dry Garden" edge of decorative gravel and large scale reclaimed oak branches and logs create an edge condition which is lined with large wood, fixed furnishings. This area is protected from the elements while providing a buffer from the lab windows. Site furnishings include modular wood benches and moveable tables and chairs.

The westside landscaping includes an entry garden for lower-level programs and is characterized by a sloped landscape and discreet pathway and stairway that descend from Welch Road to a lower-level hardscape entry courtyard. The program for this garden space includes a place for researchers and visitors to take a break, it is meant to be a meditative space dominated by greenery, an opportunity to bring natural light and views into the basement interior spaces and will provide secondary access to the building entry/exit for daily use and egress. The pathway includes a series of precast or cast-in-place concrete stairs with metal handrails. The stepped garden and lower-level courtyard require a series of retaining walls stepping down from along the edge of the path at Welch Road. The uppermost wall will facilitate stormwater control and overland release (see Civil Drawings). The sloped garden will be planted with small trees, ground-covering shrubs and perennials. The courtyard at the lower level has unit pavers, lighting, fixed modular benches and moveable tables and chairs. Additionally on the west side of the ground floor classroom there is a pathway from Discovery Walk to the building stair and west building entry. At this entry there are raised planters and a bench furnishing.

South Landscape Buffer and Exiting program includes vegetated stormwater swale to allow for overland release during large stormwater events, maintenance and fire department access for the building and power transformers, and planting that can be seen from the interior program spaces. The landscape design elements include a path from the building exiting door and stair out to the sidewalk at Welch Road, a fence with gate for site control and maintenance access, decorative gravel under the building overhang with boulders and low plantings, groupings of shrubs with organic mulch and a vegetated swale with decorative gravel mulch to reinforce and prevent erosion of the planted swale channel. Vine plantings are to be planted along the loading dock wall metal screens (existing to be retained or re-installed).

The Welch Road frontage has a program of designated parking and drop-off spaces for samples, supplies and small daily deliveries. There are several existing trees at the back of the curb that are to be retained in place and the existing asphalt sidewalk is to be replaced as part of the work.

In addition to the above the landscape design includes:

- Raised planters shall be cast-in-place concrete with textured surface built with reusable form liners on the outer facing surface, unless indicated otherwise.
- Paved patios and walkways shall be precast unit pavers on either cast-in-place concrete slab or compacted aggregate base.
- Trellis structure shall be a painted steel structure with wood louvers to create shade, approximately 12' height (~10' to under side) with integrated lighting. Vines will be planted at the base of columns intended to climb the shade trellis structure.
- Site furnishings shall include a mix of high-quality durable moveable tables and chairs and fixed modular benches, metal bicycle racks, fixed workout equipment, a basketball net, and campus standard trash and recycling receptacles at a minimum of three locations within the scope area.
- Fences, screens, guardrails: All fences are painted or powder-coated metal with locking gates to secure access along the south side of the building and maintenance-only areas at the west side of the site.
- A window maintenance clear area shall be maintained of min. 24" width off face of building with decomposed granite stone fines pavement or gravel mulch.
- All new plantings: shall have soil to minimum depth of 36", and shall be irrigated using an automated irrigation system fed by lake water - requiring new equipment for control and water filtration. Screening plantings will be required around existing and new above grade utilities such as transformers and generators.
- Trees in or confined by paved areas shall have soil cells (see plan for extents) to support pavement and to ensure that trees have a min. of 800 cu ft of soil per tree.
- Storm drainage shall be managed with a series of area drains and slot drains at paved areas tied into the existing storm drainage system. All planting areas will require perforated sub-drainage lines to ensure proper drainage for plants and trees.
- Exterior Lighting and power shall be provided using campus standard pole lights (where appropriate) and bollards along pathways and entry plazas (see Materials Plan for types and layout) and additional low-level lights (non-standard, as indicated in plan) for accent lighting in seating areas. Lighting shall be provided to meet photometric requirements to ensure safe egress from buildings and passage along pathways. Power outlets shall be provided at numerous locations at East Plaza, Café and Main Entry area for event use and general device recharging.

SYMBOL LEGEND			
	SECTION		REVISION
	ELEVATION		ALIGN
	GRIDLINE		DOOR NUMBER
	ELEVATION		WINDOW NUMBER
	DETAIL PLAN / SECTION		KEY NOTE
	DETAIL / WALL SECTION		MATERIAL TAG
	INTERIOR ELEVATION		CENTERLINE
	P.LANTER DRAIN (SUBDRAIN, TYP.)		PROPERTY LINE
	AREA DRAIN		LIMITS OF WORK
	OVERFLOW DRAIN		MATCH LINE
	SLOT DRAIN		PROPOSED CONTOUR
	CATCH BASIN		SOFT GRADE BREAK
	PERFORATED PIPE SUBDRAIN		HARD GRADE BREAK
			RIDGE LINE

DRAWING INDEX ASA		
Dicipline	SHEET #	SHEET NAME
LANDSCAPE	ASA-L0.00	LANDSCAPE GENERAL NOTES AND INDEX
LANDSCAPE	ASA-L0.10	LANDSCAPE MATERIAL AND PLANTING SCHEDULE
LANDSCAPE	ASA-L1.00	TREE DISPOSITION & PROTECTION PLAN
LANDSCAPE	ASA-L2.00	LANDSCAPE MATERIAL PLAN
LANDSCAPE	ASA-L2.00A	LANDSCAPE PLAN PHASE B
LANDSCAPE	ASA-L2.00B	LANDSCAPE PLAN PHASE C
LANDSCAPE	ASA-L2.10	LANDSCAPE SOIL & TREE PLAN
LANDSCAPE	ASA-L2.20	LANDSCAPE PRELIMINARY UNDERSTORY PLANTING PLAN
LANDSCAPE	ASA-L7.00	IRRIGATION GENERAL NOTES & LEGEND INDEX
LANDSCAPE	ASA-L7.10	IRRIGATION PLAN
LANDSCAPE	ASA-L7.20	IRRIGATION DETAILS
LANDSCAPE	ASA-L7.21	IRRIGATION DETAILS



ARCHITECTURE URBAN DESIGN
LANDSCAPE ARCHITECTURE
www.intersticearchitects.com

1173 Sutter Street, San Francisco
415.285.3960 CA 94109



1215 WELCH RD.

STANFORD UNIVERSITY
SCHOOL OF MEDICINE

PLANTING NOTES

1. ALL LANDSCAPE AND MAINTENANCE OF THE SAME SHALL CONFORM WITH ALL APPLICABLE CODES, ORDINANCES AND LAWS.
2. VERIFY ALL SITE CONDITIONS AND UTILITY LOCATIONS PRIOR TO COMMENCING WORK.
3. PERFORM FINE GRADING IN ALL PLANTING AREAS. COORDINATE FINISH GRADE TO ALLOW DEPTH OF MULCH AS SPECIFIED.
4. ALL PLANTS TO BE OF FINEST QUALITY AND FREE OF DISEASE OR DAMAGE.
5. PLANT MATERIALS AND STAKED LAYOUT TO BE APPROVED BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
6. SEE SPECIFICATIONS AND DETAILS FOR SOIL AMENDMENTS, PLANTING AND MAINTENANCE INSTRUCTIONS.
7. WHERE IN-THE-FIELD CONFLICTS ARISE BETWEEN PLANT AND UTILITY LOCATIONS, THE CONTRACTOR SHALL, WITH THE APPROVAL OF THE LANDSCAPE ARCHITECT, MAKE THE NECESSARY ADJUSTMENTS TO PLANT PLACEMENT IN ORDER TO ACHIEVE OPTIMUM DESIGN INTENT.
8. CONTRACTOR TO CALCULATE AND VERIFY PLANT QUANTITIES PRIOR TO SUBMITTAL OF PLANT MATERIAL FOR REVIEW BY LANDSCAPE ARCHITECT.
9. ALL PLANTING IS TO BE IRRIGATED BY AUTOMATED IRRIGATION SYSTEM UNLESS OTHERWISE NOTED; SEE IRRIGATION PLANS & SPECIFICATIONS

MATERIAL SCHEDULE							
LABEL	DESCRIPTION	MANUFACTURER/SUPPLIER	MODEL / MODULE	COLOR/MATERIAL/FINISH	REMARKS	SPEC	DETAIL
FURNISHINGS							
F1	BENCH TYPE 1	STREETLIFE	SOLID SKIRT CURVED, 70" WITH BACKREST	WOOD / METAL	12' RADIUS FROM BACK OF BENCH	32 33 00	-
F2	BENCH TYPE 2	STREETLIFE	SOLID SKIRT CURVED, 70" WITH BACKREST	WOOD / METAL	27' RADIUS FROM BACK OF BENCH	32 33 00	-
F3	BENCH TYPE 3	STREETLIFE	SOLID SKIRT CURVED, 70" WITH BACKREST	WOOD / METAL	29' RADIUS FROM BACK OF BENCH	32 33 00	-
F4	BENCH TYPE 4	STREETLIFE	SOLID SKIRT STRAIGHT WITH PARTIAL BACKREST	WOOD / METAL	13.5' LENGTH, 4' DEPTH	32 33 00	-
F5	BICYCLE RACK	CREATIVE PIPE	-	BLACK		32 33 00	-
F6	TRASH/RECYCLING RECEPTACLE	VICTOR STANLEY	SOLID SKIRT	BLACK		32 33 00	-
F7	PICNIC TABLE	LANDSCAPE FORMS	MULTIPLICITY	WOOD / METAL	8' LENGTH	32 33 00	-
F9	BOLLARDS	CREATIVE PIPE	-	BLACK	REMOVABLE BOLLARDS AS REQUIRED FOR FIRE ACCESS	32 33 00	-
F10	SLOT DRAIN	ACO	-	STAINLES STL.		32 33 00	-
F11	ADIRONDACK LOUNGE CHAIR	GARDENSIDE LTD.	-	TEAK WOOD		32 33 00	-
F12	HANDRAIL	-	-	STAINLESS STEEL / POLISH (BRUSHED)		32 33 00	-
F13	GUARDRAIL, S.A.D.	-	-	-		-	-
F14	BENCH TYPE 5	GARDENSIDE LTD	PARKSIDE/ 6' LENGTH	WOOD		32 33 00	-
F16	FENCE WITH GATE	GREENSCREEN	-	BLACK	PAINTED STEEL	32 33 00	-
F17	BOULDERS	LYNGSO GARDEN	-	-		32 33 00	-
F18	SALVAGED TREE FEATURE	BAY AREA REDWOOD	-	-	SALVAGED FROM OAK TREES ON SITE	32 33 00	-
F19	SHADE TRELLIS	-	-	-		32 33 00	-
PAVING							
P1	PAVER - TYPE 1: ENTRY & EAST PLAZA	STEPSTONE	-	SEE SPECS	LARGE SCALE CALARC; 3 COLORS	32 14 00	-
P2	PAVER - TYPE 2: ENTRY & EAST PLAZA	STEPSTONE	-	SEE SPECS		32 14 00	-
P3	PAVER - TYPE 3: ENTRY & EAST PLAZA	STEPSTONE	-	SEE SPECS		32 14 00	-
P4	PAVER - TYPE 4: DISCOVERY WALK	STEPSTONE	-	SEE SPECS	NARROW MODULAR, TO MATCH EXISTING DISCOVERY WALK	32 14 00	-
P5	PAVER - TYPE 5: SKY GARDEN	STEPSTONE	12"X36"X1 1/2"	SEE SPECS		32 14 00	7 / L-5.0
P7	CIP CONC PAVEMENT - INTEGRAL COLOR	DAVIS COLORS	-	-		32 32 13	-
P8	ASPHALT PAVING, S.C.D	-	-	-	REDWOOD EDGER, TYP.	-	-
P9	DECORATIVE GRAVEL SURFACE	LYNGSO GARDEN	3/4" DIAMETER	3/4" CRUSHED DESERT GOLD		32 15 00	-
P10	ORGANIC BARK MULCH	-	12"X36"X1 1/2"	-		32 93 00	-
P11	METAL EDGE	RYERSON & CO	-	STEEL, BLACK		32 15 00	-
P12	TURF BLOCK, S.C.D	SOIL RETENTION	12"X36"X1 1/2"	SEE SPECS		32 33 00	-
WALLS / CURBS / FEATURES							
C1	CIP CONC. STEPS	-	-	T.B.D. - SEE SPECS		32 32 13	-
C2	CIP CONC. RETAINING WALL	DAVIS COLORS	-	T.B.D. - SEE SPECS		32 32 13	-
C3	CIP CONC. PLANTER	-	-	T.B.D. - SEE SPECS		32 32 13	-

PLANTING SCHEDULE										
LABEL	SPECIES NAME	COMMON NAME	QTY	CONTAINER SIZE	SPACING	WATER	SOURCE	NATIVE	MATURE HxW	LOCATION/REMARKS
TREES - POTENTIAL SPECIES										
ACE BUE	ACER BUERGERIANUM	TRIDENT MAPLE		TBD	AS SHOWN	MOD	WUCOLS	NATIVE	20'-30' H X 20'-30' W	UPRIGHT PYRAMIDAL FORM IN YOUTH, BECOMING ROUND, FALL COLOR, DECIDUOUS
GIN BIL	GINKGO BILOBO 'AUTUMN GOLD'	GINKGO		TBD	AS SHOWN	MOD	WUCOLS	-	45' H X 35' W	UPRIGHT FORM WITH FALL COLOR
QUE ENG	QUERCUS ENGELMANNII	ENGELMAN OAK		TBD	AS SHOWN	LOW	WUCOLS	NATIVE	40'-80' H X 60'-90' W	-
QUE TOM	QUERCUS TOMENTALLA	ISLAND OAK		TBD	AS SHOWN	LOW	WUCOLS	NATIVE	30'-60' H X 20'-50' W	SUN TO PARTIAL SHADE
ULM PAR	ULMUS PARVIFOLIA 'TRUE GREEN'	CHINESE EVERGREEN ELM		TBD	AS SHOWN	LOW	WUCOLS	-	40'-60' H X 40'-50' W	CULTIVAR, EVERGREEN
SHRUBS/GROUNDCOVERS										
	ARCTOSTAPHYLOS HOOKERI 'WAYSIDE'	WAYSIDE MONTEREY MANZANITA		10 GAL	6' O.C.	LOW	WUCOLS	NATIVE	2'-4' H X 6'-8' W	SCREENING SHRUB
	BACCHARIS PILULARIS 'TWIN PEAKS'	COYOTE BRUSH		10 GAL	5' O.C.	LOW	WUCOLS	NATIVE	1'-2H X 6' W	GROUNDCOVER
	CEANOTHUS 'JULIA PHELPS'	CALIFORNIA WILD LILAC		10 GAL	6' O.C.	LOW	WUCOLS	NATIVE	4'-7' H X 7'-9' W	SHRUB
	CEANOTHUS GLORIOSUS 'ANCHOR BAY'	CALIFORNIA WILD LILAC		10 GAL	8' O.C.	LOW	WUCOLS	NATIVE	2'-3' H X 8'-10' W	GROUNDCOVER
	CEANOTHUS GRISEUS 'YANKEE POINT'	CALIFORNIA WILD LILAC		10 GAL	8' O.C.	LOW	WUCOLS	NATIVE	2'-3' H X 8'-10' W	GROUNDCOVER
	CYCAS REVOLTA	SAGO PALM		10 GAL	4' O.C.	REG	SUNSET	-	4'-8' H X 5'-7' W	2' 3 HT WHEN YOUNG, SLOW GROWER
	EPILOBIUM CANUM (ZAUSCHNERIA)	CALIFORNIA FUSCHIA		5 GAL	2' O.C.	LOW	WUCOLS	NATIVE	1'-2' H X 2'-3' W	HABITAT
	LIGUSTRUM JAPONICUM 'TEXANUM'	WAXLEAF JAPANESE PRIVET		15 GAL	4' O.C.	REG	SUNSET	-	6'-8' H X 4'-6' W	SCREENING SHRUB
	MYRTUS COMMUNIS	MYRTLE		15 GAL	4' O.C.	LOW	SUNSET	-	5'-6' H X 4'-5' W	SCREENING SHRUB, FINE TEXTURED FOLIAGE
	PITTIOSPORUM CRASSIFOLIUM 'COMPACTUM'	KARO		10 GAL	4' O.C.	MOD/MED	WUCOLS	-	2'-4' H X 4'-6' W	COURTYARD
	RIBES VIBURNIFOLIUM AND CVS.	EVERGREEN CURRANT		10 GAL	8' O.C.	LOW	WUCOLS	NATIVE	3'-6' H X 6'-10' W	GOOD FOR DRYISH SHADE, SKY GARDEN BANKS
	SALVIA CLEVELANDII 'WINNIFRED GILMAN'	WINNIFRED GILMAN CLEVELAND SAGE		10 GAL	5' O.C.	LOW	WUCOLS	NATIVE	3'-5' H X 4'-6' W	FRAGRANT, HABITAT PLANT
	SARCOCOCCA RUSCIFOLIA	SWEET BOX		5 GAL	4' O.C.	LOW	WUCOLS	-	4'-6' H X 3'-7' W	GOOD FOR DRYISH SHADE, HAGEY ENTRY
PERENNIALS/FERNS/GRASSES										
	ASPARAGUS DENSIFLORUS 'MEYER'	MEYER ASPARAGUS FERN		5 GAL	2.5' O.C.	MOD	WUCOLS	-	2' H X 3' W	DRY SHADE
	CYRTOMIUM FALCATUM	JAPANESE HOLLY FERN		5 GAL	2' O.C.	MOD	WUCOLS	-	1'-2' H X 2'-3' W	DRY SHADE
	LOMANDRA LONGIFOLIA 'BREEZE'	MATT RUSH		5 GAL	3' O.C.	LOW	WUCOLS	-	2'-3' H X 2'-3' W	SHADE AND SUN
	MUHLENBERGII DUBIA	PINE MUHLY		5 GAL	2' O.C.	LOW	WUCOLS	NATIVE	1'-2' H X 2' W	SUN
	MUHLENBERGII RIGENS	DEER GRASS		5 GAL	3' O.C.	LOW	WUCOLS	NATIVE	2'-3' H X 2'-3' W	SUN
	RUMOHRA ADIANTIFORMIS	LEATHERLEAF FERN		5 GAL	3' O.C.	MOD/MED	WUCOLS	-	3' H X 3' W	SHADE
	WOODWARDIA FIMBRIATA	GIANT CHAIN FERN		10 GAL	4' O.C.	MOD/MED	WUCOLS	NATIVE	4'-5' H X 3' W	SHADE
VINES										
	FICUS PUMILA	CLIMBING FIG		15 GAL	AS SHOWN	MOD	WUCOLS	-	30' H	SELF-ADHERING VINE
	GELSEMIUM SEMPERVIRENS	CAROLINA JESSAMINE		15 GAL	AS SHOWN	LOW	WUCOLS	-	12'-20' H	TWINING, FRAGRANT, EVERGREEN
	SOLANUM LAXUM (JASMINOIDES)	POTATO VINE		15 GAL	AS SHOWN	MOD	WUCOLS	-	30' H	TWINING, WHITE FLOWERS, EVERGREEN
	WISTERIA SINENSIS 'COOKE'S PURPLE'	COOKE'S PURPLE WISTERIA		15 GAL	AS SHOWN	MOD	WUCOLS	-	30'-50' H	TWINING



ZIMMER GUNSUL FRASCA ARCHITECTS LLP

DENVER
LOS ANGELES
NEW YORK
PORTLAND
SEATTLE
WASHINGTON, DC
VANCOUVER, BC

1223 SW Washington Street
Suite 200
Portland, OR 97205
503.224.3860
www.zgf.com

ZGF Project Number P26717.wrss

Consultant



INTERSTICE ARCHITECTS

ARCHITECTURE URBAN DESIGN
LANDSCAPE ARCHITECTURE
www.intersticearchitects.com

1173 Sutter Street, San Francisco
415.285.3960 CA 94109

Full Design Team Roster on Cover Sheet

Client and Project Information



1215 WELCH RD.

STANFORD UNIVERSITY
SCHOOL OF MEDICINE

Original Issue
ASA SUBMITTAL 12.06.2024

Revisions

Key Plan and Orientation

Sheet Status

Sheet Title

LANDSCAPE
MATERIAL AND
PLANTING SCHEDULE

Sheet Number

ASA-L0.10

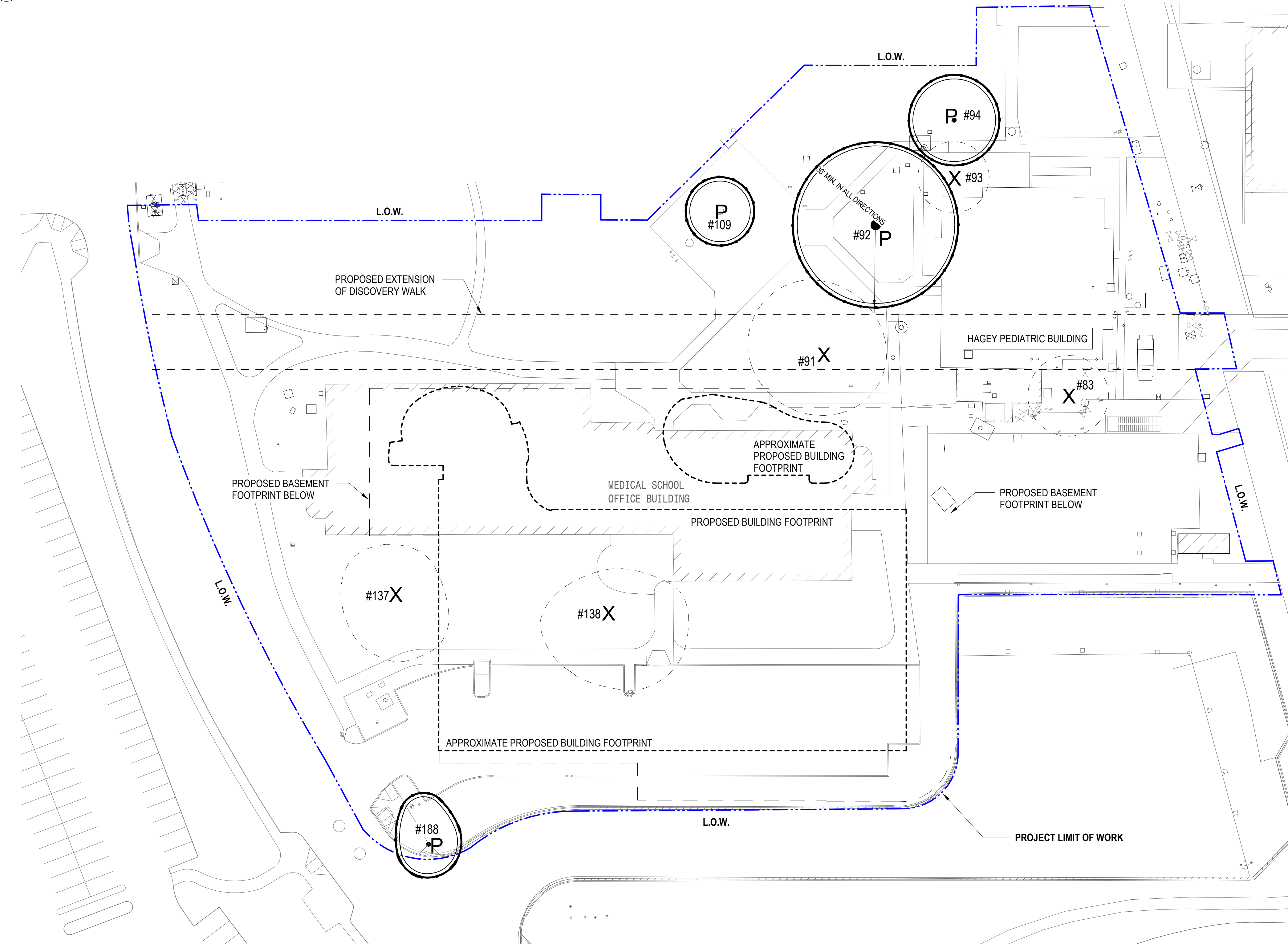
Current Issue:
ASA SUBMITTAL

Current Issue Date
12.06.2024

Tag No.	Common name	Genus-species	Tree Age	Previous ASA/Name & #	Protected Y/N	Tree Disposition	Mitigation Required
83	Chinese elm	Ulmus parvifolia	<40	No	No	Remove	None
91	Coast live oak	Quercus agrifolia	>40	Original MSOB Construction ASA, #2340-06-82-84P-84A	Yes	Remove	3 Replacement Trees.
92	Coast live oak	Quercus agrifolia	>40	Original MSOB Construction ASA, #2340-06-82-84P-84A	Yes	Protect	None
93	Chinese elm	Ulmus parvifolia	<40	No	No	Remove	None
94	Coast live oak	Quercus agrifolia	>40	Original MSOB Construction ASA, #2340-06-82-84P-84A	Yes	Protect	None
109	Chinese pistache	Pistachia chinensis	<40	No	No	Protect	None
137	Blue oak	Quercus douglasii	>40	Original MSOB Construction ASA, #2340-06-82-84P-84A	Yes	Remove	3 Replacement Trees.
138	Coast live oak	Quercus agrifolia	>40	Original MSOB Construction ASA, #2340-06-82-84P-84A	Yes	Remove	3 Replacement Trees.
188	Coast live oak	Quercus agrifolia	>40	Loading Dock Project, #9626-06-82-07A-07G	Yes	Protect	None

LEGEND	
SYMBOL	DESCRIPTION
(X)	TREE TO REMOVE
(P)	TREE TO PROTECT
(○)	APPROX. EXTENT OF CANOPY
(#000)	TREE IDENTIFICATION NUMBER, SEE MATRIX FOR DISPOSITION
●●●●●	TREE PROTECTION ZONES
— — — — —	LIMIT OF WORK

2 TREE DISPOSITION MATRIX
NTS

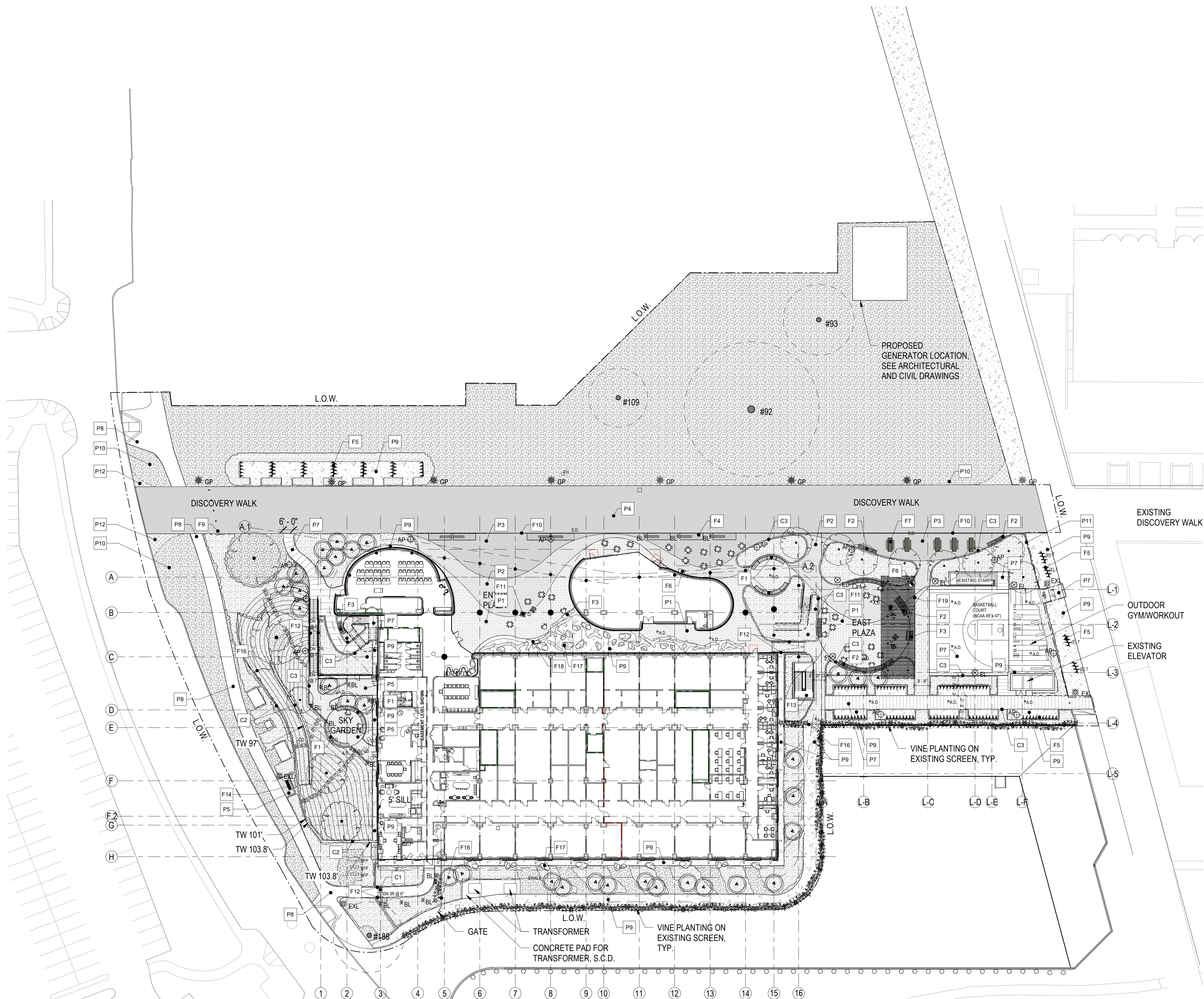


1 TREE PROTECTION & DISPOSITION PLAN
1" = 30'-0"

TREE DISPOSITION AND PROTECTION NOTES

- TREE NUMBERS REFERENCE ARBORIST REPORTS BY AMBER GRAVES ALVARES OF MONARCH TREE SERVICES DATED 08-19-24.
- ALL TREE PROTECTION AND INSPECTION SCHEDULE MEASURES, DESIGN RECOMMENDATIONS, WATERING AND CONSTRUCTION SCHEDULING SHALL BE IMPLEMENTED IN FULL BY OWNER AND CONTRACTOR, AS STATED IN THE APPROVED PLANS.
- ALL TREE PROTECTION METHODS SHALL COMPLY WITH STANDARDS SET BY SANTA CLARA COUNTY TREE PROTECTION GUIDELINES (https://www.sccgov.org/sites/dpd/DocsForms/Documents/Brochure_TreePreservation.pdf)
- ALL TREES INDICATED AS "PROTECTED" ARE CONSIDERED "REGULATED TREES." BEFORE WORKING IN THIS AREA CONTACT THE PROJECT ARBORIST TORREY YOUNG.
- STANFORD UNIVERSITY HAS STRICT REQUIREMENTS INCLUDING THE POINTS AND PROCEDURES WITHIN THESE NOTES. ADDITIONALLY ALL TREE PROTECTION SHALL COMPLY WITH STANDARDS AND REQUIREMENTS AS SET FORTH IN STANFORD UNIVERSITY FACILITIES DESIGN GUIDELINES - 2021 FDG SECTION 01 56 39.
- A STANFORD GROUNDS SERVICES CERTIFIED ARBORIST SHALL BE CONTACTED TO EVALUATE ALL WORK WITHIN ANY TREES' ROOT ZONES OR TREE PROTECTION ZONES.
- THE "ROOT ZONE" OF ALL TREES THAT ARE DESIGNATED "PROTECTED IN PLACE" MUST BE PROTECTED AS DESCRIBED HEREIN. THE "TREE PROTECTION ZONE" SHALL BE ESTABLISHED TO PROTECT THE ROOT ZONE OF ALL TREES THAT ARE TO BE PROTECTED. FOR DEFINITIONS AND REQUIREMENTS OF ROOT ZONE AND TREE PROTECTION ZONE SEE PROJECT WRITTEN SPECIFICATIONS.
- ALL TREES TO REMAIN ON A PROJECT SHALL HAVE PROTECTIVE FENCING INSTALLED PER THE TREE PROTECTION DRAWING INCLUDED IN THE PLAN SET.
- PROTECTIVE FENCING SHALL BE 5-FOOT HEIGHT CHAIN LINK ON SECURE FOOTINGS, OR IMBEDDED AS REQUIRED BY THE CAMPUS PLANNING OFFICE OR A STANFORD UNIVERSITY GROUNDS SERVICES CERTIFIED ARBORIST, THAT WILL NOT FALL OVER ONTO TREES.
- PROTECTIVE FENCING SHALL BE PLACED AT THE OUTER EDGE OF THE ROOT ZONE IN ALL DIRECTIONS. IF PROJECT CONSTRAINTS DO NOT ALLOW FOR FENCING AT THE OUTER EDGE OF THE ROOT ZONE, FENCING MUST BE PLACED AS CLOSE TO THIS AS POSSIBLE AND APPROVED AFTER IT IS IN PLACE BY A STANFORD UNIVERSITY GROUNDS SERVICES CERTIFIED ARBORIST.
- LAYDOWN, STAGING AND PARKING AREAS SHALL BE APPROVED BY THE STANFORD UNIVERSITY ARCHITECT/CAMPUS PLANNING DEPARTMENT AND SHALL BE SHOWN ON THE PLANS IF WITHIN THE PROJECT LIMIT AREA, OR ON THE CONSTRUCTION LOGISTICS PLAN IF OUTSIDE THE PROJECT LIMIT AREA. ALL TREE PROTECTION GUIDELINES APPLY TO TREES IN LAYDOWN, STAGING AND PARKING AREAS AS WELL AS TO TREES WITHIN THE PROJECT LIMITS.
- CONSTRUCTION MATERIALS/EQUIPMENT/PERSONAL VEHICLES SHALL NOT BE STORED, PARKED OR TEMPORARILY PLACED IN THE ROOT ZONES OF ANY TREES. NOTHING SHALL BE STORED OR PLACED TEMPORARILY WITHIN PROTECTIVE FENCING, TO AVOID SOIL COMPACTION AND SOIL CONTAMINATION UNDER TREES. ROOT ZONES OF TREES SHALL NOT BE DRIVEN OVER. PROVIDE ALTERNATIVE ROUTES FOR CONSTRUCTION TRAFFIC OF ANY KIND INCLUDING CARS, PEOPLE, TRACTORS, EQUIPMENT, CRANES, OR ANY OTHER TRAFFIC AND ALL STAGING OR STORAGE AREAS.
- PROTECT OVERHANGING TREE CANOPIES FROM CONSTRUCTION DAMAGE. IF DRIVE AISLES ARE ANTICIPATED UNDER LOW CANOPIES CALL FOR AN EVALUATION BY A STANFORD GROUNDS SERVICES CERTIFIED ARBORIST TO DETERMINE APPROPRIATE MEASURES.
- THERE SHALL BE NO GRADE CHANGE WITHIN A MINIMUM OF TEN FEET OF THE TRUNK OF EXISTING TREES.
- NO RINSING, CLEANING EQUIPMENT OR DUMPING CONSTRUCTION LIQUID MATERIALS SHALL BE ALLOWED IN THE TREE ROOT ZONE, OR IN AN AREA THAT DRAINS INTO THE ROOT ZONE. CARE SHALL BE TAKEN IN CLEANING UP EQUIPMENT. THERE SHALL BE NO STORAGE OF DUMPSTERS OR ACCUMULATED DEBRIS FROM DEMOLITION ON OR AROUND THE ROOT ZONES OF EXISTING TREES AND SHRUBS.
- EXISTING TREES SHALL BE MONITORED WEEKLY AND IRRIGATED AS NEEDED DURING THE COURSE OF CONSTRUCTION.
- NO LIME OR OTHER SOIL TREATMENT SHALL BE APPLIED WITHOUT THE CONSENT OF A STANFORD GROUNDS SERVICES CERTIFIED ARBORIST.
- ALL TRENCHING SHALL CONFORM TO THE FOLLOWING GUIDELINES.
 - A. STANFORD GROUNDS SERVICES CERTIFIED ARBORIST IS REQUIRED TO BE PRESENT TO SUPERVISE ANY TRENCHING, DIGGING OR EXCAVATION OF ANY KIND WITHIN A TREES' ROOT ZONE.
 - B. ROOTS LARGER THAN 2 INCHES IN DIAMETER SHALL NOT BE SEVERED WITHOUT CALLING A STANFORD GROUNDS SERVICES CERTIFIED ARBORIST FOR CUTTING OR REVIEW.
 - C. TUNNELING OR BORING UNDER ROOTS RATHER THAN PRUNING IS PREFERRED.
 - D. DIGGING WITHIN A TREE'S ROOT ZONE SHALL BE AVOIDED. IF IT IS NECESSARY, HAND DIGGING SHALL BE USED FOR ANY TRENCHING WITHIN THE TREE'S ROOT ZONE UNLESS OTHERWISE APPROVED BY A STANFORD GROUNDS SERVICES CERTIFIED ARBORIST.
 - E. ALL ROOTS THAT NEED TO BE CUT SHALL BE PRUNED CLEANLY, NOT TORN.
- THE PRECEDING GUIDELINES SHALL BE CONSIDERED MINIMUM REQUIREMENTS. THE GREATER THE DISTANCE OF TREE PROTECTION PROVIDED THE GREATER THE INSTANCE OF TREE SUCCESS IN CONSTRUCTION AREAS.

Sheet Size: 24 x 36 12/22/2024 12:46:37 PM



1 LANDSCAPE MATERIAL PLAN
1" = 30'-0"

- SHEET NOTES**
- SEE CIVIL DRAWINGS FOR EXISTING SURVEY, CURB & STREET LAYOUT / ALIGNMENT, GRADING, DRAINAGE AND ALL UTILITIES.
 - AREA ADJACENT TO L.O.W. SHOWN FOR REFERENCE ONLY, N.I.C.
 - ALL PAVED AREAS SHALL HAVE A MIN. CROSS SLOPE OF 1.0% AND MAX. CROSS SLOPE OF 1.9% UNLESS OTHERWISE INDICATED.
 - ALL LANDSCAPE PLANTING SHALL BE IRRIGATED WITH LOW FLOW IRRIGATION SYSTEM AND SHALL COMPLY WITH MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MVELO) IN EFFECT.
 - SEE ELECTRICAL DRAWINGS FOR LIGHTING LAYOUT.
 - TOTAL OF 114 PROPOSED BICYCLE PARKING RACKS PROVIDED.

LEGEND	
SYMBOL	DESCRIPTION
[Pattern]	DECORATIVE GRAVEL
[Pattern]	UNIT PAVER WITH OPEN JOINTS
[Pattern]	UNIT PAVERS - SEE KEYNOTES FOR TYPE
[Pattern]	UNIT PAVERS DISCOVERY WALK
[Pattern]	PLANTING
[Pattern]	DG STONE FINES
[Pattern]	BARK MULCH
[Pattern]	TURF BLOCK
[Symbol]	P.D. PLANTER DRAIN / INSPECTION
[Symbol]	A.D. AREA DRAIN
[Symbol]	S.D. SLOT DRAIN
[Symbol]	EXL (E) LANTERN STYLE POLE LIGHT
[Symbol]	GP GLOBE POLE LIGHT
[Symbol]	AP AREA POLE LIGHT
[Symbol]	BL BOLLARD LIGHT
[Symbol]	EL EVENT POLE LIGHT
[Symbol]	LARGE SHRUB (5' TO 10' HEIGHT)

TREE LEGEND		
SYMBOL	LABEL	QTY
[Symbol]	EXISTING TREE TO BE PROTECTED	4
[Symbol]	PROPOSED TREE, SPECIES: TBD SIZE: 36" BOX MIN.	13

MATERIAL KEY NOTES	
FURNISHINGS	
F1	BENCH TYPE 1
F2	BENCH TYPE 2
F3	BENCH TYPE 3
F4	BENCH TYPE 4
F5	BICYCLE RACK
F6	TRASH/RECYCLING RECEPTACLE
F7	PICNIC TABLE
F9	BOLLARDS
F10	SLOT DRAIN
F11	ADIRONDACK LOUNGE CHAIR
F12	HANDRAIL
F13	GUARDRAIL, S.A.D.
F14	BENCH TYPE 5
F16	FENCE WITH GATE
F17	BOULDERS
F18	SALVAGED TREE FEATURE
F19	SHADE TRELLIS
PAVING	
P1	PAVER - TYPE 1: ENTRY & EAST PLAZA
P2	PAVER - TYPE 2: ENTRY & EAST PLAZA
P3	PAVER - TYPE 3: ENTRY & EAST PLAZA
P4	PAVER - TYPE 4: DISCOVERY WALK
P5	PAVER - TYPE 5: SKY GARDEN
P7	CIP CONC PAVEMENT - INTEGRAL COLOR
P8	ASPHALT PAVING, S.C.D
P9	DECORATIVE GRAVEL SURFACE
P10	ORGANIC BARK MULCH
P11	METAL EDGE
P12	TURF BLOCK, S.C.D
WALLS / CURBS / FEATURES	
C1	CIP CONC. STEPS
C2	CIP CONC. RETAINING WALL
C3	CIP CONC. PLANTER

ZGF
ZIMMER GUNSUL FRASCA ARCHITECTS LLP

DENVER
LOS ANGELES
NEW YORK
PORTLAND
SEATTLE
WASHINGTON, DC
VANCOUVER, BC

1223 SW Washington Street
Suite 200
Portland, OR 97205
503.224.3860
www.zgf.com

ZGF Project Number P26717.wrss
Consultant

INTERSTICE ARCHITECTS
ARCHITECTURE URBAN DESIGN
LANDSCAPE ARCHITECTURE
www.intersticearchitects.com
1173 Sutter Street, San Francisco
415.285.3960 CA 94109
Full Design Team Roster on Cover Sheet

Client and Project Information

Stanford MEDICINE

1215 WELCH RD.

STANFORD UNIVERSITY
SCHOOL OF MEDICINE

Original Issue: 12.06.2024
ASA SUBMITTAL

Key Plan and Orientation

Sheet Status

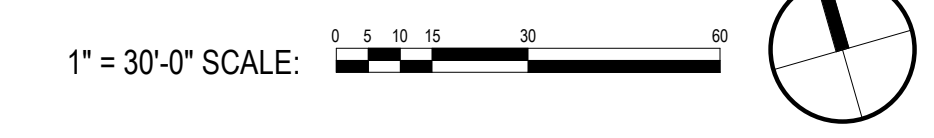
Sheet Title
LANDSCAPE MATERIAL PLAN

Sheet Number

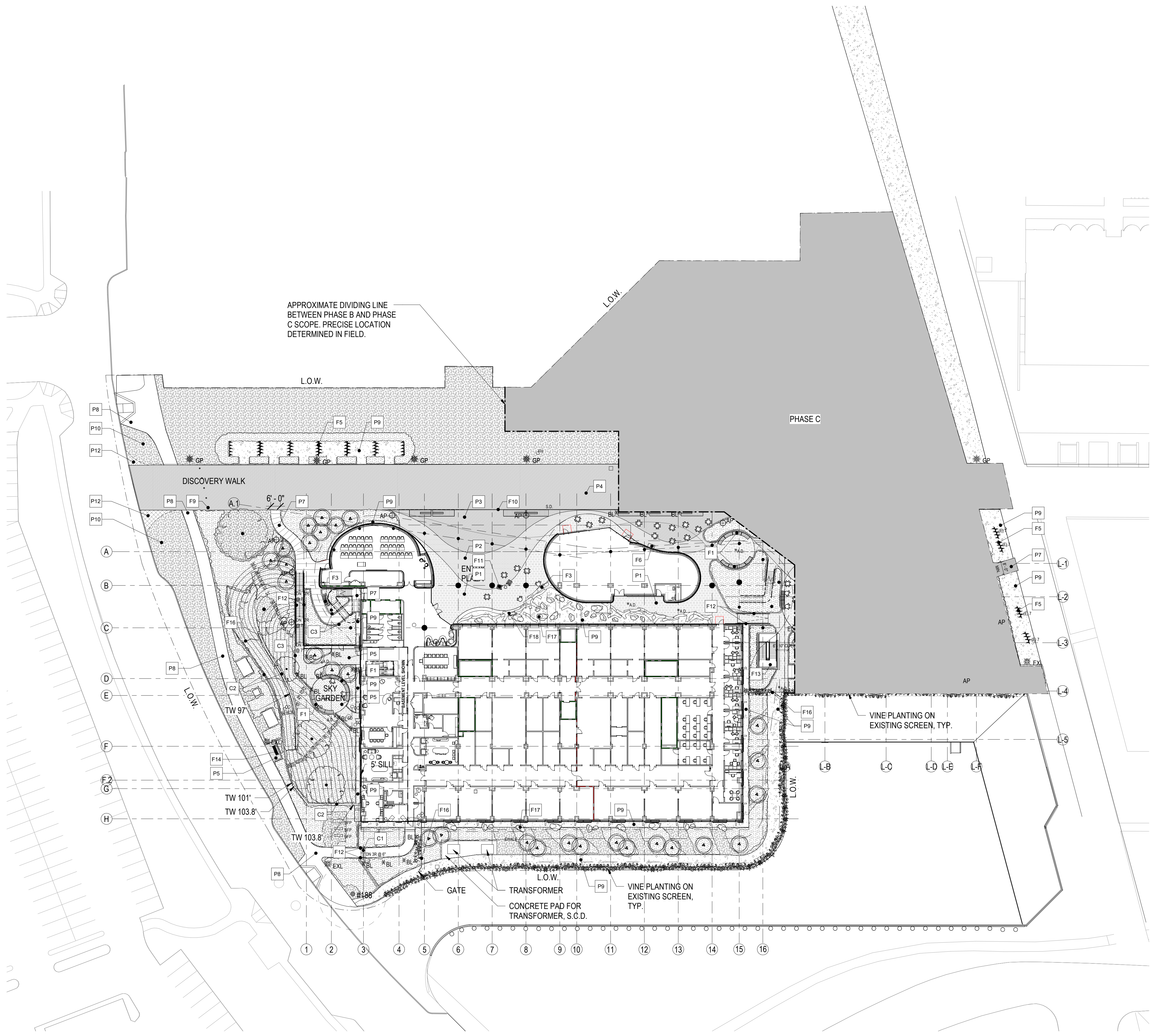
ASA-L2.00

Current Issue:
ASA SUBMITTAL

Current Issue Date
12.06.2024



Sheet Size: 24 x 36 12/22/2024 12:46:48 PM



APPROXIMATE DIVIDING LINE BETWEEN PHASE B AND PHASE C SCOPE. PRECISE LOCATION DETERMINED IN FIELD.

1 LANDSCAPE PLAN - PHASE B
1" = 30'-0"

- SHEET NOTES**
1. SEE CIVIL DRAWINGS FOR EXISTING SURVEY, CURB & STREET LAYOUT / ALIGNMENT, GRADING, DRAINAGE AND ALL UTILITIES.
 2. AREA ADJACENT TO L.O.W. SHOWN FOR REFERENCE ONLY, N.I.C.
 3. ALL PAVED AREAS SHALL HAVE A MIN. CROSS SLOPE OF 1.0% AND MAX. CROSS SLOPE OF 1.9% UNLESS OTHERWISE INDICATED.
 4. ALL LANDSCAPE PLANTING SHALL BE IRRIGATED WITH LOW FLOW IRRIGATION SYSTEM AND SHALL COMPLY WITH MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MVELO) IN EFFECT.
 5. SEE ELECTRICAL DRAWINGS FOR LIGHTING LAYOUT.
 6. TOTAL OF 114 PROPOSED BICYCLE PARKING RACKS PROVIDED.

LEGEND		MATERIAL KEY NOTES	
SYMBOL	DESCRIPTION		
[Pattern]	DECORATIVE GRAVEL	FURNISHINGS	
[Pattern]	UNIT PAVER WITH OPEN JOINTS	F1 BENCH TYPE 1	
[Pattern]	UNIT PAVERS - SEE KEYNOTES FOR TYPE	F2 BENCH TYPE 2	
[Pattern]	UNIT PAVERS	F3 BENCH TYPE 3	
[Pattern]	DISCOVERY WALK	F4 BENCH TYPE 4	
[Pattern]	PLANTING	F5 BICYCLE RACK	
[Pattern]	DG STONE FINES	F6 TRASH/RECYCLING RECEPTACLE	
[Pattern]	BARK MULCH	F7 PICNIC TABLE	
[Pattern]	TURF BLOCK	F9 BOLLARDS	
[Symbol]	P.D. PLANTER DRAIN / INSPECTION	F10 SLOT DRAIN	
[Symbol]	A.D. AREA DRAIN	F11 ADIRONDACK LOUNGE CHAIR	
[Symbol]	S.D. SLOT DRAIN	F12 HANDRAIL	
[Symbol]	EXL (E) LANTERN STYLE POLE LIGHT	F13 GUARDRAIL, S.A.D.	
[Symbol]	GP GLOBE POLE LIGHT	F14 BENCH TYPE 5	
[Symbol]	AP AREA POLE LIGHT	F16 FENCE WITH GATE	
[Symbol]	BL BOLLARD LIGHT	F17 BOULDERS	
[Symbol]	EL EVENT POLE LIGHT	F18 SALVAGED TREE FEATURE	
[Symbol]	LARGE SHRUB (5' TO 10' HEIGHT)	F19 SHADE TRELLIS	

TREE LEGEND		
SYMBOL	LABEL	QTY
[Symbol]	EXISTING TREE TO BE PROTECTED	4
[Symbol]	PROPOSED TREE, SPECIES: TBD SIZE: 36" BOX MIN.	13

ZGF
ZIMMER GUNSUL FRASCA ARCHITECTS LLP

DENVER
LOS ANGELES
NEW YORK
PORTLAND
SEATTLE
WASHINGTON, DC
VANCOUVER, BC

1223 SW Washington Street
Suite 200
Portland, OR 97205
503.224.3860
www.zgf.com

ZGF Project Number P26717.wrss
Consultant

INTERSTICE ARCHITECTS
ARCHITECTURE URBAN DESIGN
LANDSCAPE ARCHITECTURE
www.intersticearchitects.com
1173 Sutter Street, San Francisco
415.285.3960 CA 94109
Full Design Team Roster on Cover Sheet

Client and Project Information

Stanford MEDICINE

1215 WELCH RD.

STANFORD UNIVERSITY
SCHOOL OF MEDICINE

Original Issue: 12.06.2024
ASA SUBMITTAL

Revisions

Key Plan and Orientation

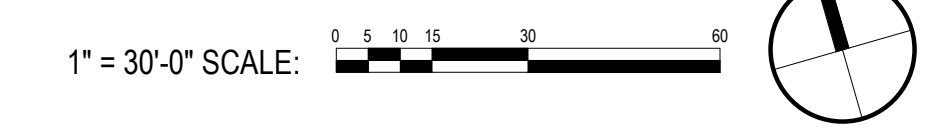
Sheet Status

Sheet Title
LANDSCAPE PLAN PHASE B

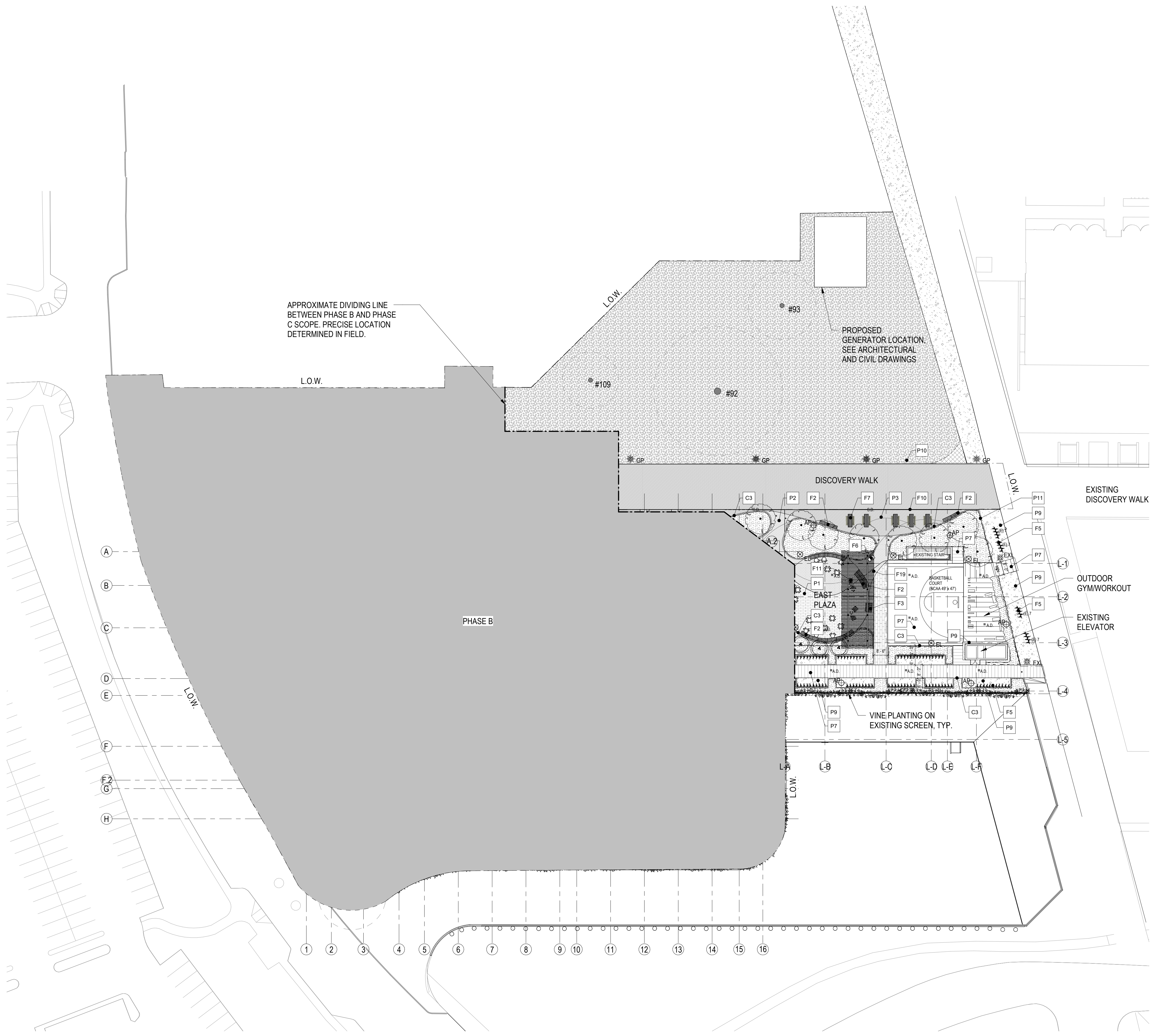
Sheet Number
ASA-L2.00A

Current Issue:
ASA SUBMITTAL

Current Issue Date
12.06.2024



Sheet Size: 24" x 36" 12/22/2024 12:46:58 PM



- SHEET NOTES**
- SEE CIVIL DRAWINGS FOR EXISTING SURVEY, CURB & STREET LAYOUT / ALIGNMENT, GRADING, DRAINAGE AND ALL UTILITIES.
 - AREA ADJACENT TO L.O.W. SHOWN FOR REFERENCE ONLY, N.I.C.
 - ALL PAVED AREAS SHALL HAVE A MIN. CROSS SLOPE OF 1.0% AND MAX. CROSS SLOPE OF 1.9% UNLESS OTHERWISE INDICATED.
 - ALL LANDSCAPE PLANTING SHALL BE IRRIGATED WITH LOW FLOW IRRIGATION SYSTEM AND SHALL COMPLY WITH MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO) IN EFFECT.
 - SEE ELECTRICAL DRAWINGS FOR LIGHTING LAYOUT.
 - TOTAL OF 114 PROPOSED BICYCLE PARKING RACKS PROVIDED.

LEGEND		MATERIAL KEY NOTES	
SYMBOL	DESCRIPTION		
[Pattern]	DECORATIVE GRAVEL	FURNISHINGS	
[Pattern]	UNIT PAVER WITH OPEN JOINTS	F1 BENCH TYPE 1	
[Pattern]	UNIT PAVERS - SEE KEYNOTES FOR TYPE	F2 BENCH TYPE 2	
[Pattern]	UNIT PAVERS DISCOVERY WALK	F3 BENCH TYPE 3	
[Pattern]	PLANTING	F4 BENCH TYPE 4	
[Pattern]	DG STONE FINES	F5 BICYCLE RACK	
[Pattern]	BARK MULCH	F6 TRASH/RECYCLING RECEPTACLE	
[Pattern]	TURF BLOCK	F7 PICNIC TABLE	
[Symbol]	P.D. PLANTER DRAIN / INSPECTION	F9 BOLLARDS	
[Symbol]	A.D. AREA DRAIN	F10 SLOT DRAIN	
[Symbol]	S.D. SLOT DRAIN	F11 ADIRONDACK LOUNGE CHAIR	
[Symbol]	EXL (E) LANTERN STYLE POLE LIGHT	F12 HANDRAIL	
[Symbol]	GP GLOBE POLE LIGHT	F13 GUARDRAIL, S.A.D.	
[Symbol]	AP AREA POLE LIGHT	F14 BENCH TYPE 5	
[Symbol]	BL BOLLARD LIGHT	F16 FENCE WITH GATE	
[Symbol]	EL EVENT POLE LIGHT	F17 BOULDERS	
[Symbol]	LARGE SHRUB (5' TO 10' HEIGHT)	F18 SALVAGED TREE FEATURE	
		F19 SHADE TRELLIS	
		PAVING	
		P1 PAVER - TYPE 1: ENTRY & EAST PLAZA	
		P2 PAVER - TYPE 2: ENTRY & EAST PLAZA	
		P3 PAVER - TYPE 3: ENTRY & EAST PLAZA	
		P4 PAVER - TYPE 4: DISCOVERY WALK	
		P5 PAVER - TYPE 5: SKY GARDEN	
		P7 CIP CONC PAVEMENT - INTEGRAL COLOR	
		P8 ASPHALT PAVING, S.C.D	
		P9 DECORATIVE GRAVEL SURFACE	
		P10 ORGANIC BARK MULCH	
		P11 METAL EDGE	
		P12 TURF BLOCK, S.C.D	
		WALLS / CURBS / FEATURES	
		C1 CIP CONC. STEPS	
		C2 CIP CONC. RETAINING WALL	
		C3 CIP CONC. PLANTER	

TREE LEGEND		
SYMBOL	LABEL	QTY
[Symbol]	EXISTING TREE TO BE PROTECTED	4
[Symbol]	PROPOSED TREE, SPECIES: TBD SIZE: 36" BOX MIN.	13

ZGF
ZIMMER GUNSUL FRASCA ARCHITECTS LLP

DENVER
LOS ANGELES
NEW YORK
PORTLAND
SEATTLE
WASHINGTON, DC
VANCOUVER, BC

1223 SW Washington Street
Suite 200
Portland, OR 97205
503.224.3860
www.zgf.com

ZGF Project Number P26717.wrss

Consultant

IA
INTERSTICE
ARCHITECTS

ARCHITECTURE URBAN DESIGN
LANDSCAPE ARCHITECTURE

www.intersticearchitects.com

1173 Sutter Street, San Francisco
415.285.3960 CA 94109

Full Design Team Roster on Cover Sheet

Client and Project Information

Stanford
MEDICINE

1215 WELCH RD.

STANFORD UNIVERSITY
SCHOOL OF MEDICINE

Original Issue
ASA SUBMITTAL 12.06.2024

Revisions

Key Plan and Orientation

Sheet Status

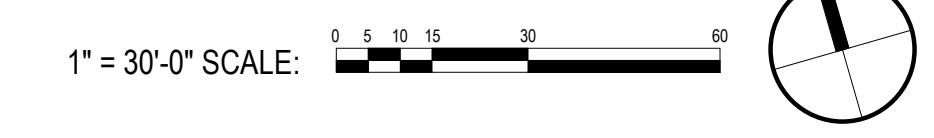
Sheet Title
**LANDSCAPE PLAN
PHASE C**

Sheet Number
ASA-L2.00B

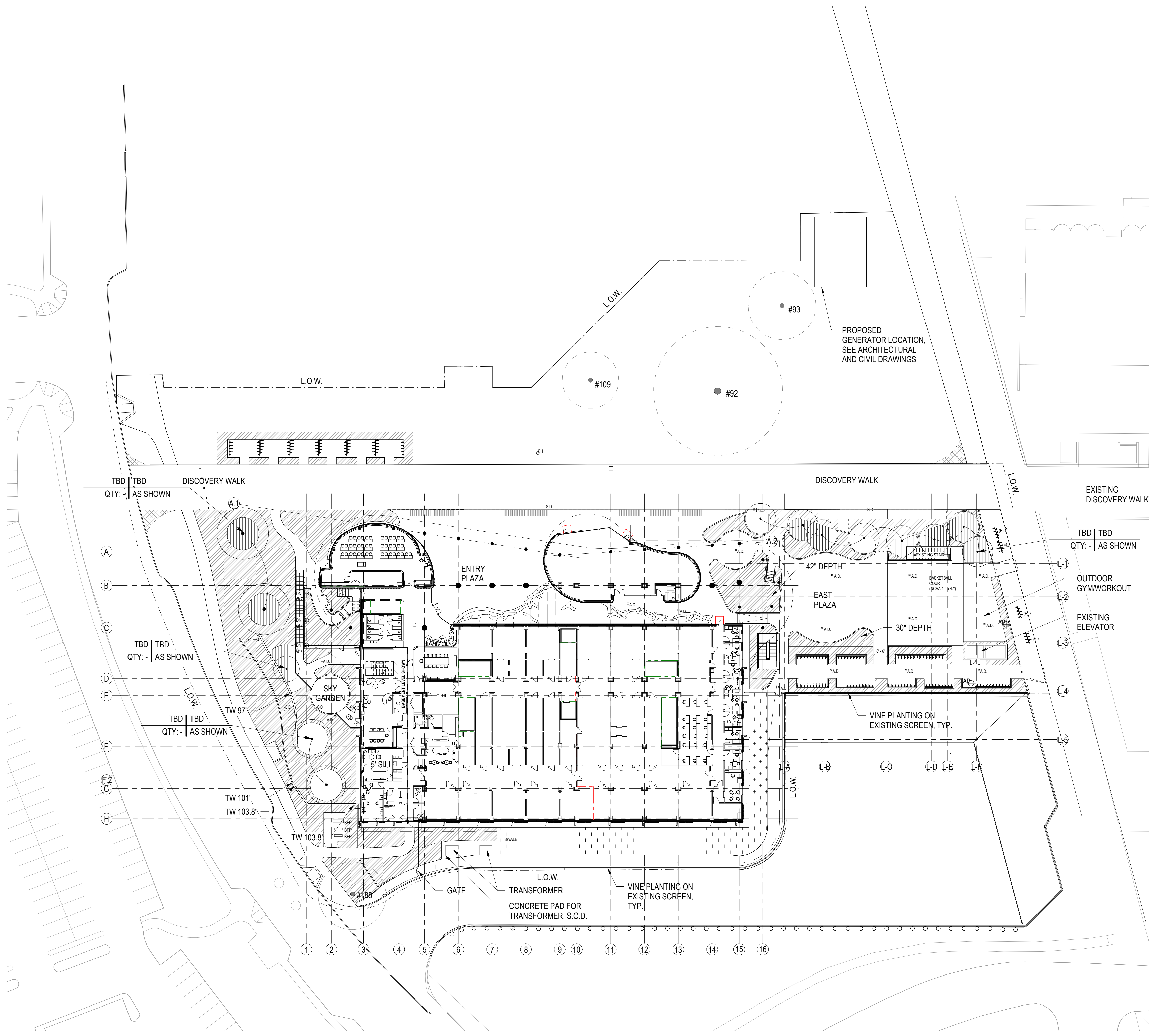
Current Issue
ASA SUBMITTAL

Current Issue Date
12.06.2024

1 LANDSCAPE PLAN - PHASE C
1" = 30'-0"



Sheet Size: 24" x 36" 12/20/2024 12:47:05 PM



1 LANDSCAPE SOIL AND TREE PLAN
1" = 30'-0"

SHEET NOTES

1. ALL PLANTING AREAS. TYPICAL MIN. SOIL DEPTH 24"; AT PROPOSED TREES, MIN. 42" DEPTH, EXTENDING 10' DIAMETER FROM TRUNK IN ALL DIRECTIONS; SHRUB AND VINE PLANTING AREAS SOIL DEPTH 36" MIN.; TURF PLANTING AREAS SOIL DEPTH 24" MIN. ALL DEPTHS ARE TYPICAL UNLESS OTHERWISE NOTED.
2. PROVIDE STAKED LAYOUT OF ALL PLANT LOCATIONS FOR REVIEW BY LANDSCAPE ARCHITECT PRIOR TO PLANTING.
3. SEE CIVIL DRAWINGS FOR ALL UTILITIES AND CONNECTIONS OF SUBDRAINAGE LINES TO STORM SEWER LINES.
4. SEE CIVIL DRAWINGS FOR SIZE AND DETAILS FOR SUB-DRAINAGE LINES.
5. SOIL VOLUME FOR ALL TREES SHALL BE MIN. 600 CU FT AND OPTIMALLY 800 CU FT PER TREE.
6. SEE SPECIFICATIONS FOR DRAINAGE REQUIREMENTS FOR TREES; ENSURE THAT ALL TREE WELLS ARE FREE DRAINING PRIOR TO INSTALLING TREES.

LEGEND	
SYMBOL	DESCRIPTION
	DECORATIVE GRAVEL
	UNIT PAVER WITH OPEN JOINTS
	UNIT PAVERS - SEE KEYNOTES FOR TYPE
	DISCOVERY WALK
	PLANTING
	DG STONE FINES
	BARK MULCH
	TURF BLOCK
	P.D. PLANTER DRAIN / INSPECTION
	A.D. AREA DRAIN
	S.D. SLOT DRAIN
	EXL (E) LANTERN STYLE POLE LIGHT
	GP GLOBE POLE LIGHT
	AP AREA POLE LIGHT
	BL BOLLARD LIGHT
	EL EVENT POLE LIGHT
	LARGE SHRUB (5' TO 10' HEIGHT)

SOIL DEPTH LEGEND	
SYMBOL	DESCRIPTION
	SOIL CELL W/ PLANTING SOIL
	TREE PLANTING DEPTH
	SHRUBS/VINES PLANTING DEPTH
	TYPICAL PLANTING DEPTH

TREE LEGEND		
SYMBOL	LABEL	QTY
	EXISTING TREE TO BE PROTECTED	4
	PROPOSED TREE SPECIES: TBD SIZE: 36" BOX MIN.	13



ZIMMER GUNSUL FRASCA ARCHITECTS LLP
DENVER
LOS ANGELES
NEW YORK
PORTLAND
SEATTLE
WASHINGTON, DC
VANCOUVER, BC
1223 SW Washington Street
Suite 200
Portland, OR 97205
503.224.3860
www.zgf.com



1215 WELCH RD.
STANFORD UNIVERSITY
SCHOOL OF MEDICINE
Original Issue
ASA SUBMITTAL 12.06.2024

Revisions
Key Plan and Orientation

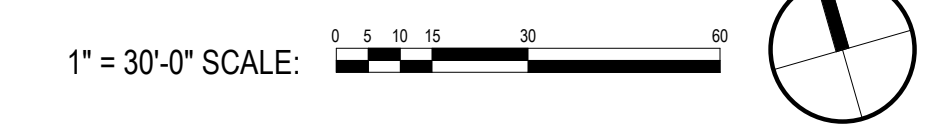
Sheet Status

Sheet Title
LANDSCAPE SOIL & TREE PLAN

Sheet Number
ASA-L2.10

Current Issue
ASA SUBMITTAL

Current Issue Date
12.06.2024



INTERSTICE ARCHITECTS
ARCHITECTURE URBAN DESIGN
LANDSCAPE ARCHITECTURE
www.intersticearchitects.com
1173 Sutter Street, San Francisco
415.285.3960 CA 94109
Full Design Team Roster on Cover Sheet

Client and Project Information

Stanford MEDICINE

1215 WELCH RD.
STANFORD UNIVERSITY
SCHOOL OF MEDICINE
Original Issue
ASA SUBMITTAL 12.06.2024

Revisions

Key Plan and Orientation

Sheet Status

Sheet Title
LANDSCAPE PRELIMINARY UNDERSTORY PLANTING PLAN

Sheet Number

ASA-L2.20

Current Issue
ASA SUBMITTAL

Current Issue Date
12.06.2024

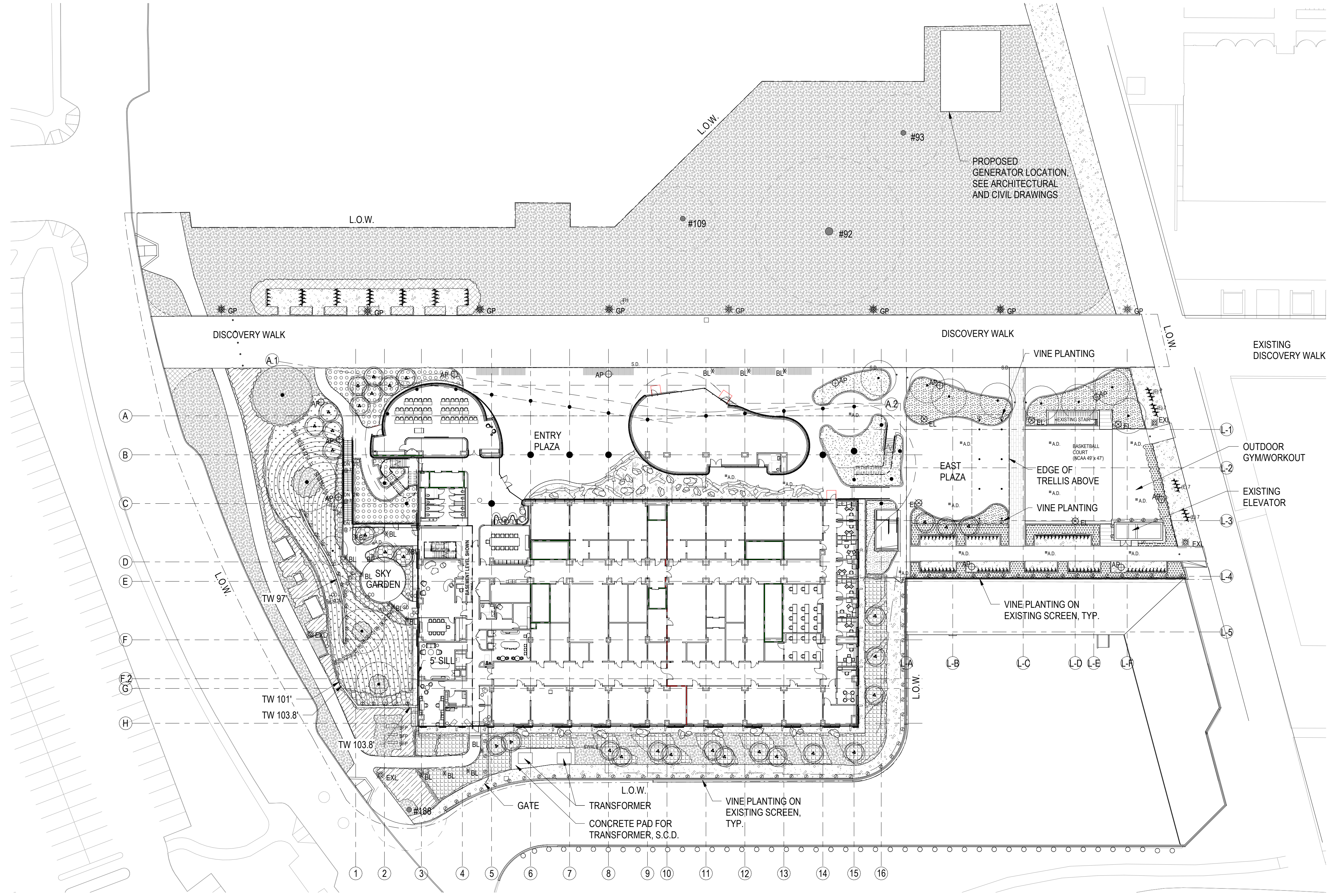
PLANTING SHEET NOTES

1. AREA ADJACENT TO L.O.W. SHOWN FOR REFERENCE ONLY, N.I.C.
2. PROVIDE STAKED LAYOUT OF ALL PLANT LOCATIONS FOR REVIEW BY LANDSCAPE ARCHITECT PRIOR TO PLANTING.
3. SEE CIVIL DRAWINGS FOR ALL UTILITIES AND CONNECTIONS OF SUBDRAINAGE LINES TO STORM SEWER LINES.
4. SEE CIVIL DRAWINGS FOR SIZE AND DETAILS FOR SUB-DRAINAGE LINES.
5. ALL PLANTING AREAS SHALL BE FINISHED WITH BARK MULCH UNLESS INDICATED OTHERWISE.

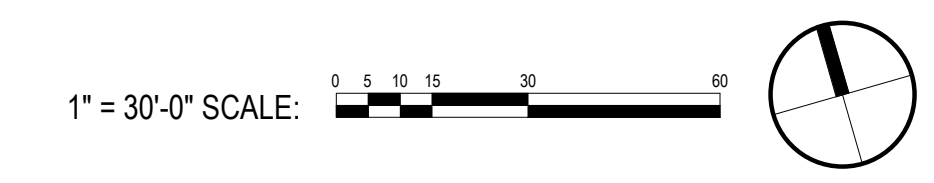
TREE LEGEND		
SYMBOL	LABEL	QTY
	EXISTING TREE TO BE PROTECTED	4
	PROPOSED TREE, SPECIES: TBD SIZE: 36" BOX MIN.	13

PLANTING LEGEND	
SYMBOL	DESCRIPTION
	PLANTING PALETTE 1
	PLANTING PALETTE 2
	PLANTING PALETTE 3
	PLANTING PALETTE 4
	PLANTING PALETTE 5
	PLANTING PALETTE 6
	PLANTING PALETTE 7
	PLANTING PALETTE 8
	PLANTING PALETTE 9
	DECORATIVE GRAVEL
	BARK MULCH
	TURF BLOCK
	P.D. PLANTER DRAIN / INSPECTION
	A.D. AREA DRAIN
	S.D. SLOT DRAIN
	R EXTERIOR ELEC. RECEPTACLE
	EXL (E) LANTERN STYLE POLE LIGHT
	GP GLOBE POLE LIGHT
	AP AREA POLE LIGHT
	BL BOLLARD LIGHT
	EL EVENT POLE LIGHT
	LARGE SHRUB (5' TO 10' HEIGHT)
	VINE PLANT

- UNDERSTORY PLANTING PALETTES:**
- PALETTE 1: SHADE AT HAGEY ENTRY PLANTERS:**
ASSUME AVERAGE 5 GALLON PLANT AT 3' O.C. SPACING.
• ASPARAGUS DENSI-FLORUS 'MEYER', MEYER ASPARAGUS FERN
• CYCAS REVOLTA, SAGO PALM
• CYRTOMIUM FALCATUM, JAPANESE HOLLY FERN
• LOMANDRA LONGIFOLIA 'BREEZE', MATT RUSH
• RUMOHRA ADIANTIFORMIS, LEATHERLEAF FERN
• SARCOCOCCA RUSCIFOLIA, FRAGRANT SARCOCOCCA, SWEET BOX
• WOODWARDIA FIMBRIATA, GIANT CHAIN FERN
- PALETTE 2: MORNING SUN AT EAST PLAZA:**
ASSUME AVERAGE 10-GALLON PLANT AT 4' O.C. SPACING.
• CEANOTHUS GRISEUS 'YANKEE POINT', CALIFORNIA WILD LILAC
• EPILOBIUM CANUM (ZAUSCHNERIA), CALIFORNIA FUSCHIA
• FRANGULA CALIFORNICA 'LEATHERLEAF', LEATHERLEAF COFFEEBERRY
• LOMANDRA LONGIFOLIA 'BREEZE', MATT RUSH
• MUHLENBERGII DUBIA, PINE MUHLY
• MUHLENBERGII RIGENS, DEER GRASS
• SALVIA CLEVELANDII 'WINNIFRED GILMAN', WINNIFRED GILMAN SAGE
VINES:
• WISTERIA SINENSIS 'COOKE'S PURPLE', COOKE'S WISTERIA
- PALETTE 3: MORNING SUN / HEDGES AT BIKE PARKING:**
ASSUME AVERAGE 15-GALLON PLANT AT 5' O.C. SPACING.
• ARCTOSTAPHYLOS HOOKERI 'WAYSIDE', WAYSIDE MONTEREY MANZANITA
• CEANOTHUS GRISEUS 'YANKEE POINT', CALIFORNIA WILD LILAC
• SALVIA CLEVELANDII 'WINNIFRED GILMAN', WINNIFRED GILMAN SAGE
VINES:
• GELSEMIUM SEMPERVIRENS, CAROLINA JESSAMINE
• SOLANUM LAXUM (JASMINOIDES), POTATO VINE
• FICUS PUMILIA, CREEPING FIG (AT EXISTING ELEVATOR BUILDING WALLS)
- PALETTE 4: MASS PLANTING OVER BASEMENT - SOUTH AND EAST OF BUILDING:**
ASSUME AVERAGE 10-GALLON PLANT AT 8' O.C. SPACING.
• ARCTOSTAPHYLOS HOOKERI 'WAYSIDE', WAYSIDE MONTEREY MANZANITA
• ARCTOSTAPHYLOS MANZANITA 'DR HURDS', DR HURD MANZANITA
• CEANOTHUS GRISEUS 'YANKEE POINT', CALIFORNIA WILD LILAC
• CERCIS OCCIDENTALIS, WESTERN REDBUD
• EPILOBIUM CANUM (ZAUSCHNERIA), CALIFORNIA FUSCHIA
• FRANGULA CALIFORNICA, COFFEEBERRY
• MUHLENBERGII DUBIA, PINE MUHLY
• MUHLENBERGII RIGENS, DEER GRASS
• SALVIA CLEVELANDII 'WINNIFRED GILMAN', WINNIFRED GILMAN SAGE
VINES:
• GELSEMIUM SEMPERVIRENS, CAROLINA JESSAMINE
• SOLANUM LAXUM (JASMINOIDES), POTATO VINE
- PALETTE 5: BICYCLE PARKING AT DISCOVERY WALK:**
ASSUME AVERAGE 15-GALLON PLANT AT 5' O.C. SPACING.
• MYRTUS COMMUNIS, MYRTLE
• CEANOTHUS 'JULIA PHELPS', CALIFORNIA WILD LILAC
• PITTOSPORUM CRASSIFOLIUM 'COMPACTUM', PITTOSPORUM
- PALETTE 6: WEST ENTRY FROM DISCOVERY WALK:**
ASSUME AVERAGE 10-GALLON PLANT AT 4' O.C. SPACING.
• CEANOTHUS GRISEUS 'YANKEE POINT', CALIFORNIA WILD LILAC
• CERCIS OCCIDENTALIS, WESTERN REDBUD
• EPILOBIUM CANUM (ZAUSCHNERIA), CALIFORNIA FUSCHIA
• FRANGULA CALIFORNICA 'LEATHERLEAF', LEATHERLEAF COFFEEBERRY
• PITTOSPORUM CRASSIFOLIUM 'COMPACTUM', PITTOSPORUM
PLANTER UNDER WEST STAIR:
• CYRTOMIUM FALCATUM, JAPANESE HOLLY FERN
• LOMANDRA LONGIFOLIA 'BREEZE', MATT RUSH
• RUMOHRA ADIANTIFORMIS, LEATHERLEAF FERN
• SARCOCOCCA RUSCIFOLIA, FRAGRANT SARCOCOCCA, SWEET BOX
• WOODWARDIA FIMBRIATA, GIANT CHAIN FERN
- PALETTE 7: SKY GARDEN SLOPES:**
ASSUME AVERAGE 10-GALLON PLANT AT 8' O.C. SPACING.
• BACCHARIS PILULARIS 'TWIN PEAKS', COYOTE BRUSH
• CEANOTHUS GLORIOSUS 'ANCHOR BAY', CALIFORNIA WILD LILAC
• FRANGULA CALIFORNICA, COFFEEBERRY
- PALETTE 7: SKY GARDEN SLOPES CONT.:**
• FRANGULA CALIFORNICA 'LEATHERLEAF', LEATHERLEAF COFFEEBERRY
• RIBES VIBURNIFOLIUM, EVERGREEN CURRANT
• WOODWARDIA FIMBRIATA, GIANT CHAIN FERN
VINES:
• FICUS PUMILIA, CREEPING FIG
- PALETTE 8: LOWER SKY GARDEN:**
ASSUME AVERAGE 5 GALLON PLANT AT 3' O.C. SPACING.
• CYCAS REVOLTA, SAGO PALM
• CYRTOMIUM FALCATUM, JAPANESE HOLLY FERN
• LOMANDRA LONGIFOLIA 'BREEZE', MATT RUSH
• RUMOHRA ADIANTIFORMIS, LEATHERLEAF FERN
• SARCOCOCCA RUSCIFOLIA, FRAGRANT SARCOCOCCA, SWEET BOX
• WOODWARDIA FIMBRIATA, GIANT CHAIN FERN
- PALETTE 9: WELCH ROAD FRONTAGE AND UTILITY SCREENING:**
ASSUME AVERAGE 10-GALLON PLANT AT 8' O.C. SPACING.
• ARCTOSTAPHYLOS HOOKERI 'WAYSIDE', WAYSIDE MONTEREY MANZANITA
• ARCTOSTAPHYLOS MANZANITA 'DR HURDS', DR HURD MANZANITA
• CEANOTHUS GRISEUS 'YANKEE POINT', CALIFORNIA WILD LILAC
• CEANOTHUS 'JULIA PHELPS', CALIFORNIA WILD LILAC
• LIGUSTRUM JAPONICUM 'TEXANUM', WAXLEAF JAPANESE PRIVET



1 LANDSCAPE PLANTING PLAN
1" = 30'-0"



Sheet Size: 24" x 36" 12/20/2024 12:47:14 PM

IRRIGATION NOTES

- THE CONTRACTOR SHALL REVIEW RELATED DRAWINGS AND SHALL ENSURE COORDINATION WITH ALL APPLICABLE TRADES PRIOR TO SUBMITTING BID.
- THE IRRIGATION SYSTEM SHALL BE INSTALLED IN CONFORMANCE WITH ALL APPLICABLE STATE AND LOCAL CODES AND ORDINANCES BY LICENSED CONTRACTORS AND EXPERIENCED WORKMEN. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND FEES RELATING TO HIS WORK.
- THIS DESIGN IS DIAGRAMMATIC. ALL PIPING, VALVES, ETC. SHOWN WITHIN PAVED AREAS IS FOR DESIGN CLARIFICATION ONLY AND SHALL BE INSTALLED IN PLANTING AREAS WHERE POSSIBLE. AVOID ANY CONFLICTS BETWEEN THE SPRINKLER SYSTEM, PLANTING AND ARCHITECTURAL FEATURES. PARALLEL PIPES MAY BE INSTALLED IN COMMON TRENCH. PIPES ARE NOT TO BE INSTALLED DIRECTLY ABOVE ONE ANOTHER.
- DO NOT WILLFULLY INSTALL THE SPRINKLER SYSTEM AS SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT OBSTRUCTIONS, GRADE DIFFERENCES OR DIFFERENCES IN THE AREA DIMENSIONS EXIST THAT MIGHT NOT HAVE BEEN CONSIDERED IN THE ENGINEERING. SUCH OBSTRUCTIONS OR DIFFERENCES SHOULD BE BROUGHT TO THE ATTENTION OF THE OWNER'S AUTHORIZED REPRESENTATIVE. IN THE EVENT THAT THIS NOTIFICATION IS NOT PERFORMED, THE IRRIGATION CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REVISIONS NECESSARY.
- IT IS THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO FAMILIARIZE HIMSELF WITH ALL GRADE DIFFERENCES, LOCATION OF WALLS, RETAINING WALLS, ETC. HE SHALL COORDINATE HIS WORK WITH THE GENERAL CONTRACTOR AND OTHER SUBCONTRACTORS FOR THE LOCATION AND THE INSTALLATION OF PIPE SLEEVES THROUGH WALLS, UNDER ROADWAYS, PAVING, STRUCTURES, ETC. CONTRACTOR TO VERIFY THE LOCATION OF EXISTING UNDERGROUND UTILITIES AND STRUCTURES PRIOR TO THE EXCAVATION OF TRENCHES. CONTRACTOR IS TO REPAIR ANY DAMAGE CAUSED BY HIS WORK AT NO ADDITIONAL COST TO THE OWNER.
- DUE TO THE SCALE OF THE DRAWINGS, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS, SLEEVES, ETC., WHICH MAY BE REQUIRED. THE CONTRACTOR SHALL CAREFULLY INVESTIGATE THE STRUCTURAL AND FINISHED CONDITIONS AFFECTING ALL OF HIS WORK AND PLAN HIS WORK ACCORDINGLY, FURNISHING SUCH FITTINGS, ETC., AS MAY BE REQUIRED TO MEET SUCH CONDITIONS. DRAWINGS ARE GENERALLY DIAGRAMMATIC AND INDICATIVE OF THE WORK TO BE INSTALLED. THE WORK SHALL BE INSTALLED IN SUCH A MANNER AS TO AVOID CONFLICTS BETWEEN IRRIGATION SYSTEMS, PLANTING, AND ARCHITECTURAL FEATURES.
- ELECTRICAL CONTRACTOR TO SUPPLY 120 VAC (2.5 AMP) SERVICE TO CONTROLLER LOCATION. IRRIGATION CONTRACTOR TO MAKE FINAL CONNECTION FROM ELECTRICAL STUB-OUT TO CONTROLLER. IRRIGATION CONTROL WIRE SHALL BE #14, U.L. APPROVED FOR DIRECT BURIAL. COMMON WIRE SHALL BE #12 U.L. APPROVED AND SHALL BE WHITE IN COLOR. WIRING TO INDIVIDUAL REMOTE CONTROL VALVES SHALL BE COLOR OTHER THAN WHITE.
- EACH CONTROLLER SHALL HAVE ITS OWN INDEPENDENT GROUND WIRE.
- REMOTE CONTROL VALVES SHALL BE WIRED TO CONTROLLER IN SEQUENCE AS SHOWN ON PLANS. RUN WIRE FROM EACH RCV TO THE CONTROLLER. SPLICING WIRES TOGETHER OUTSIDE OF VALVE BOXES WILL NOT BE PERMITTED.
- SPLICING OF 24-VOLT WIRES WILL NOT BE PERMITTED EXCEPT IN VALVE BOXES. LEAVE A 36" COIL OF EXCESS WIRE AT EACH SPLICE AND 100 FEET ON CENTER ALONG WIRE RUN. TAPE WIRE IN BUNDLES 10 FEET ON CENTER. NO TAPING PERMITTED INSIDE SLEEVES.
- INSTALL ONE (1) SPARE CONTROL WIRE FOR EVERY SIX (6) STATIONS ON THE CONTROLLER ALONG THE ENTIRE MAIN LINE. SPARE WIRES SHALL BE THE SAME COLOR (ONE WITH A WHITE STRIPE) AND OF A DIFFERENT COLOR THAN OTHER CONTROL WIRES. LOOP 36" EXCESS WIRE INTO EACH SINGLE VALVE BOX AND INTO ONE VALVE BOX IN EACH GROUP OF VALVES.
- VALVE LOCATIONS SHOWN ARE DIAGRAMMATIC. INSTALL IN GROUND COVER/SHRUB AREAS WHERE POSSIBLE (NOT IN LAWN AREA.) ACTUAL LOCATIONS OF VALVE BOXES SHALL BE APPROVED PRIOR TO INSTALLATION BY THE STANFORD UNIVERSITY ARCHITECT AND PLANNING OFFICE.
- INSTALL VALVE BOXES MINIMUM 12" FROM AND PERPENDICULAR TO WALK, CURB, BUILDING OR LANDSCAPE FEATURE. AT MULTIPLE VALVE BOX GROUPS, EACH BOX SHALL BE AN EQUAL DISTANCE FROM THE WALK, CURB, ETC. AND EACH BOX SHALL BE MINIMUM 12" APART. SHORT SIDE OF VALVE BOXES SHALL BE PARALLEL TO WALK, CURB, ETC.
- LOCATE QUICK COUPLING VALVE 12" FROM HARDSCAPE AREA.
- LOCATION OF ALL ABOVE GROUND UTILITIES/BOXES (INCLUDING FILTER ENCLOSURE) MUST BE APPROVED PRIOR TO INSTALLATION BY THE STANFORD UNIVERSITY ARCHITECT AND PLANNING OFFICE. ALL BOXES SHALL BE PAINTED BLACK.
- ALL SPRINKLER HEADS SHALL BE SET PERPENDICULAR TO FINISH GRADE OF THE AREA TO BE IRRIGATED UNLESS OTHERWISE DESIGNATED ON THE PLANS.
- THE IRRIGATION CONTRACTOR SHALL FLUSH AND ADJUST ALL SPRINKLER HEADS FOR OPTIMUM PERFORMANCE AND TO PREVENT OVERSPRAY ONTO WALKS, ROADWAYS AND/OR BUILDINGS AS MUCH AS POSSIBLE. THIS SHALL INCLUDE SELECTING THE BEST DEGREE OF FIXED ARC (OR AN ADJUSTABLE ARC IF FIXED ARC DOES NOT MATCH THE ARC TO BE IRRIGATED) TO FIT THE SITE CONDITIONS AND TO THROTTLE THE FLOW CONTROL AT EACH VALVE TO OBTAIN THE OPTIMUM OPERATING PRESSURE FOR EACH SYSTEM. ALL MAIN LINES SHALL BE FLUSHED PRIOR TO THE INSTALLATION OF IRRIGATION HEADS. AT 30 DAYS AFTER INSTALLATION EACH SYSTEM SHALL BE FLUSHED TO ELIMINATE GLUE AND DIRT PARTICLES FROM THE LINES.
- WHEN VERTICAL OBSTRUCTIONS (STREET LIGHTS, TREES, FIRE HYDRANTS, ETC.) INTERFERE WITH THE SPRAY PATTERN OF THE HEADS SO AS TO PREVENT PROPER COVERAGE, THE IRRIGATION CONTRACTOR SHALL FIELD ADJUST THE SPRINKLER SYSTEM BY INSTALLING A QUARTER, THIRD OR HALF CIRCLE HEAD AT THE SIDES OF THE OBSTRUCTION SO AS TO PROVIDE PROPER COVERAGE. ALL ADJUSTMENTS SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER.
- NOTIFY ARCHITECT OF ANY ASPECTS OF LAYOUT THAT WILL PROVIDE INCOMPLETE OR INSUFFICIENT WATER COVERAGE OF PLANT MATERIAL AND DO NOT PROCEED UNTIL HIS INSTRUCTIONS ARE OBTAINED.
- LOCATE BUBBLERS ON UPHILL SIDE OF TREES. TREE BUBBLERS ARE FOR ESTABLISHMENT AND DROUGHT CONDITIONS. THEY ARE TO BE TURNED OFF AFTER TREES ARE ESTABLISHED AND TURNED ON DURING DROUGHT CONDITIONS.
- IN ADDITION TO THE SLEEVES AND CONDUITS SHOWN ON THE DRAWINGS, THE IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF SLEEVES AND CONDUITS OF SUFFICIENT SIZE UNDER ALL PAVED AREAS.
- ALL EXCAVATIONS ARE TO BE FILLED WITH COMPACTED BACKFILL. CONTRACTOR TO REPAIR ALL SETTLED TRENCHES PROMPTLY, FOR A PERIOD OF 1 YEAR AFTER COMPLETION OF WORK.
- CONTRACTOR SHALL WARRANT THAT THE IRRIGATION SYSTEM WILL BE FREE FROM DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF 1 YEAR AFTER FINAL ACCEPTANCE OF WORK.

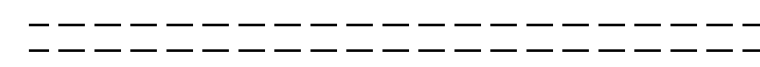
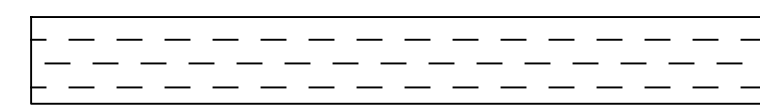
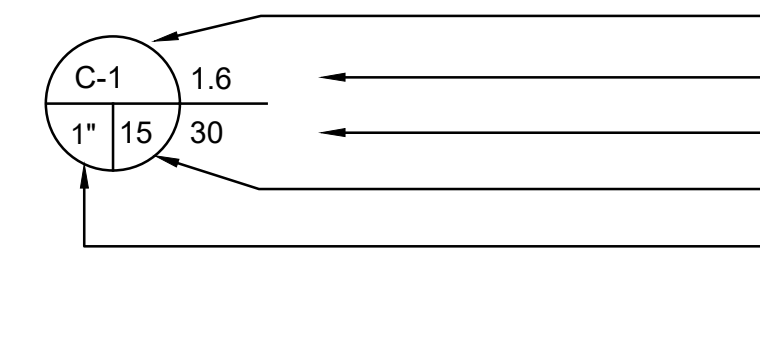
- WHERE IT IS NECESSARY TO EXCAVATE ADJACENT TO EXISTING TREES, THE CONTRACTOR SHALL USE ALL POSSIBLE CARE TO AVOID INJURY TO TREES, AND TREE ROOTS. EXCAVATION IN AREAS WHERE 2 INCH AND LARGER ROOTS OCCUR SHALL BE DONE BY HAND. ROOTS 2 INCHES AND LARGER IN DIAMETER SHALL BE WRAPPED IN A PLASTIC BAG AND SECURED WITH A RUBBER BAND. TRENCHES ADJACENT TO TREE SHOULD BE CLOSED WITHIN 24 HOURS; WHERE THIS IS NOT POSSIBLE, THE SIDE OF THE TRENCH ADJACENT TO THE TREE SHALL BE KEPT SHADED WITH BURLAP OR CANVAS.
- THE SPRINKLER SYSTEM DESIGN IS BASED ON THE MINIMUM OPERATING PRESSURE SHOWN ON THE IRRIGATION DRAWINGS. THE IRRIGATION CONTRACTOR SHALL VERIFY WATER PRESSURE PRIOR TO CONSTRUCTION. REPORT ANY DIFFERENCE BETWEEN THE WATER PRESSURE INDICATED ON THE DRAWINGS AND THE ACTUAL PRESSURE READING AT THE IRRIGATION POINT OF CONNECTION TO THE OWNER'S AUTHORIZED REPRESENTATIVE.
- IRRIGATION DEMAND: REFER TO IRRIGATION POINTS OF CONNECTION.
- CONNECT FLOW SENSOR TO CONTROLLER WITH MANUFACTURER APPROVED DIRECT BURIAL SHIELDED CABLE. INSTALL CABLE IN A SEPARATE 1" PVC SCHEDULE 40 CONDUIT.
- RAIN BIRD MAXICOM CONTROLLER ENCLOSURE ASSEMBLIES MUST BE APPROVED BY RAIN BIRD SERVICES CORP. PRIOR TO FINAL APPROVAL OF IRRIGATION. CONTACT MIKE VALENTINE (925-518-5803) FOR PRE-CONSTRUCTION MEETING AND CERTIFICATION REQUIREMENTS.
- OPERATE IRRIGATION CONTROLLER(S) BETWEEN THE HOURS OF 10:00 PM AND 7:00 AM.
- INSTALL FILTERATION UNIT PRIOR TO ORDERING ENCLOSURE. ORDER ENCLOSURE WITH APPROPRIATE INSIDE DIMENSIONS TO HOUSE INSTALLED FILTRATION UNIT.
- THE CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT AT 811 48 HOURS PRIOR TO ANY EXCAVATION.
- ALL COPIES OF IRRIGATION INVOICES FOR ALL RAIN BIRD PRODUCTS USED IN THIS PROJECT TO BE RETAINED AND SUBMITTED TO GROUNDS SERVICES.

DRIPLINE NOTES:

- PLANS ARE DIAGRAMMATIC. INSTALL DRIPLINE AND COMPONENTS PER MANUFACTURERS INSTRUCTIONS AND INSTALLATION DETAILS.
- INSTALL DRIPLINE A MAXIMUM OF 12" APART WITH EMITTERS TRIANGULARLY SPACED. INSTALL 4" FROM PERIMETER OF PLANTED AREA. THERE SHOULD BE A MINIMUM OF TWO DRIPLINE LATERALS IN EACH PLANTED AREA. DRIPLINE SHALL BE INSTALLED ON TOP OF FINISH GRADE AND UNDER 4" OF MULCH. STAPLE TO GROUND EVERY 36".
- PLACE FLUSH VALVES AT BOTH ENDS OF THE FLUSH MANIFOLD OR AT LOW POINT ON SLOPES. LOCATE WITHIN 3' OF OPERATION INDICATOR.
- INSTALL IN-LINE CHECK VALVES FOR EVERY 10' OF ELEVATION CHANGE.
- ON ALL SLOPES AND MOUNDS, PLACE THE DRIPLINE LATERALS PARALLEL TO THE SLOPE CONTOUR. INCREASE THE LATERAL SPACING BY 25% ON THE LOWER ONE-THIRD OF THE SLOPE TO AVOID EXCESS DRAINAGE.
- PVC SUPPLY AND FLUSH LINE SIZING GUIDE (ALL SUPPLY AND FLUSH LINES SHALL BE THE SAME SIZE FOR THE ENTIRE ZONE):
 - 0-5 GPM - 3/4"
 - 5.1-10 GPM - 1"
 - 10.1-20 GPM - 1 1/4"
- FITTINGS SHALL BE OF THE SAME MANUFACTURER AS DRIPLINE.
- ADD A PRESSURE REGULATOR AND FILTER TO DRIPLINE VALVES AS SHOWN ON REMOTE CONTROL VALVE DETAIL.
- THOROUGHLY FLUSH EACH INSTALLATION SEGMENT TO ENSURE NO DEBRIS CONTAMINATION OCCURS.

IRRIGATION LEGEND

SYMBOL	MODEL NUMBER	DESCRIPTION	PSI	GPM	MAX. RADIUS	MAX. SPACING
▲	1401	RAIN BIRD PRESS. COMP. BUBBLER - SHRUBS INSTALL ONE BUBBLER PER SHRUB	30	.25	-	-
■	1404	RAIN BIRD PRESS. COMP. BUBBLER - TREES INSTALL TWO BUBBLERS PER TREE	30	1.0	-	-
△	LT-0500-S	KBI PVCBALL VALVE FOR MANUAL FLUSHING				
□	OPERIND	RAIN BIRD OPERATION INDICATOR				
⊕	PESB SERIES / TYPE 21	RAIN BIRD REMOTE CONTROL VALVE WITH ASAHI UNION BALL VALVE				
⊕	XCZ-100-PRB-COM / TYPE 21	RAIN BIRD CONTROL ZONE KIT (INCL. PESB REMOTE CONTROL VALVE AND QUICK CHECK BASKET FILTER/REGULATOR) WITH ASAHI UNION BALL VALVE				
◆	44LRC	RAIN BIRD QUICK COUPLING VALVE				
◆	T-113IRR	NIBCO GATE VALVE - 2" AND SMALLER (LINE SIZE)				
⊗	3-9226-2151-1000/ 13-9303-1020 / 82-31-4020-9000 / BF-SPL	AMIAD 2" TAF AUTOMATIC FILTER WITH 200 MICRON STAINLESS STEEL SCREEN (BATTERY POWERED), 2" TAF DOWNSTREAM VALVE KIT, LEMEUR ENCLOSURE (PAINTED BLACK)				
⊗	3100200	SUPERIOR MASTER REMOTE CONTROL VALVE				
⊗	FS200P	RAIN BIRD FLOW SENSOR				
⊗	WRC-RC	RAIN BIRD WIRELESS RAIN SENSOR				
⊗	ISA6-RB2-40/ETH-SE/IRC-RRC/RSE/SP	RAIN BIRD MAXICOM CENTRAL CONTROL SYSTEM WITH STAINLESS STEEL FLIP TOP PEDESTAL ENCLOSURE, REMOTE CONTROL AND ETHERNET COMMUNICATIONS TO CENTRAL COMPUTER, ESP40SATLW CONTROLLER, RAIN SENSOR, SURGE PROTECTION, AND TWO 33 STATION REMOTE RECEIVERS.				
		*CONTACT RAIN BIRD REPRESENTATIVE (CONTACT IMPERIAL TECHNICAL SERVICES OFFICE (925) 667-2190 OR MIKE VALENTINE (925) 518-5803 FOR IRRIGATION CONTROLLER SPECIFICATIONS..				
		CONTROLLER AND STATION NUMBER				
		APPLICATION RATE (INCHES)				
		OPERATING PRESSURE (PSI) OR AIR RELIEF VALVE QUANTITY				
		APPROXIMATE GALLONS PER MINUTE				
		REMOTE CONTROL VALVE SIZE				
		MAIN LINE: 1120-SCHEDULE 40 PVC SOLVENT WELD PIPE WITH SCHEDULE 80 AND SCHEDULE 40 PVC SOLVENT WELD FITTINGS. 18" COVER.				
		LATERAL LINE: 1120-SCHEDULE 40 PVC SOLVENT WELD PIPE WITH SCHEDULE 40 PVC SOLVENT WELD FITTINGS. 12" COVER.				
		SUB-SURFACE DRIPLINE: RAIN BIRD XFS-09-12 WITH COPPER SHIELD. INSTALL 2" BELOW GRADE. USE ONLY RAINBIRD DRIPLINE FITTINGS. EMITTER SPACING = 12"; EMITTER FLOW RATE = .9 GPH.				
		SLEEVE (SL): 1120-SCHEDULE 40 PVC PLASTIC PIPE. 24" COVER. SLEEVES SHOWN WHERE MAINLINE CROSSES PAVING SHALL HAVE TWO SLEEVES (ONE 6" AND ONE 4"). ALL OTHER SLEEVES SHALL BE 4".				

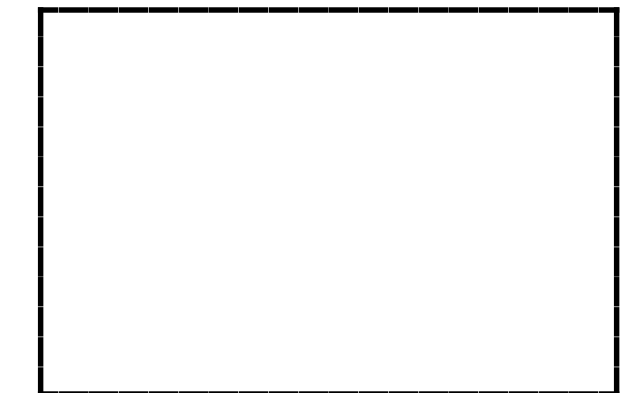


CITY OF PALO ALTO LANDSCAPE WATER USE STATEMENT	
PROJECT NAME:	1215 WELCH ROAD
PROJECT ADDRESS:	1215 WELCH ROAD, STANFORD
PREPARED BY:	JANET LUEHRS (CID, CLIA #43274) BROOKWATER INC., IRRIGATION CONSULTANTS 480 SAINT JOHN STREET, SUITE 220 PLEASANTON, CA 94566 925-855-0417 925-855-0357 (FAX) Janet@Brookwater.com (e-mail)
"I have complied with the criteria of the Water Efficient Landscape Ordinance and applied them accordingly for the efficient use of water in the irrigation design plan."	
Signed: <i>Janet Luehrs</i>	
PART ONE	MAXIMUM APPLIED WATER ALLOWANCE (MAWA)
	MAWA = Eto x .62 x [(ETAFx HA) + ((1-ETAF) x SLA)]
YEARLY ETo	43.1
CONVERSION FACTOR	0.62
ETAF	0.45
TOTAL IRRIGATED LANDSCAPE AREA (HA)	25,327 SQUARE FEET
SPECIAL LANDSCAPE AREA (SLA)	0 SQUARE FEET
LANDSCAPE WATER ALLOWANCE	304,555 GALLONS PER YEAR
TOTAL ACRE FEET	0.93 ACRE FEET
PART TWO	ESTIMATED TOTAL WATER USE (ETWU)
	(AVERAGE ETAF AND ETWU FROM WATER EFFICIENT LANDSCAPE WORKSHEET)
AVERAGE ETAF FOR REGULAR LANDSCAPE AREAS (TOTAL ETAF x AREA / TOTAL AREA)	0.41
ETWU FOR REGULAR LANDSCAPE AREAS	275,588 GALLONS PER YEAR
SITE WIDE ETAF	0.41
ETWU FOR ALL LANDSCAPE AREAS	275,588 GALLONS PER YEAR
TOTAL ACRE FEET	0.85 ACRE FEET

1215 WELCH ROAD WATER EFFICIENT LANDSCAPE WORKSHEET										
Reference Evapotranspiration (Eto)		43.1								
ZONE NO.	PLANT TYPE	HYDROZONE* (PLANT WATER USE)	PLANT FACTOR (PF)	IRRIGATION METHOD**	IRRIGATION EFFICIENCY (IE)	ETAF (PF/IE)	HYDROZONE AREA (HA) (Sq Ft)	ETAF x HA	ESTIMATED TOTAL WATER USE (ETWU)	% LANDSCAPE AREA
REGULAR LANDSCAPE AREA										
C-1	TREE	MW	0.50	B	0.81	0.62	707	436	11,662	2.8%
C-2	TREE	LW	0.30	B	0.81	0.37	1,608	596	15,914	6.3%
C-3	TREE	LW	0.30	B	0.81	0.37	905	335	8,957	3.6%
C-4	TREE	LW	0.30	B	0.81	0.37	1,985	735	19,646	7.8%
C-5	SHRUB	MW	0.50	DL	0.81	0.62	2,533	1,564	41,782	10.0%
C-6	SHRUB	LW	0.30	DL	0.81	0.37	13,460	4,985	133,214	53.1%
C-7	SHRUB	LW	0.30	MR	0.75	0.40	3,931	1,572	42,018	15.5%
C-8	VINES	MW	0.50	B	0.81	0.62	66	41	1,089	0.3%
C-9	VINES	LW	0.30	B	0.81	0.37	132	49	1,306	0.5%
TOTALS (REGULAR LANDSCAPE AREAS)							25,327	10,313	275,588	100.0%
SPECIAL LANDSCAPE AREA										
							0	0	0	0.0%
TOTALS (SPECIAL LANDSCAPE AREAS)							0	0	0	0.0%
TOTALS FOR ALL AREAS							25,327	10,313	275,588	100%

HYDROZONE SUMMARY		
Hydrozone Description	Total Sq. Ft.	% of Landscape
Cool Season Turf (CST)	0	0.0%
Warm Season Turf (WST)	0	0.0%
High Water Use Plants (HW)	0	0.0%
Bioretention Plants (BR)	0	0.0%
Medium Water Use Plants (MW)	3,306	13.1%
Low Water Use Plants (LW)	22,021	86.9%
Very Low Water Use Plants (VLW)	0	0.0%
Water Feature	0	0.0%
Special Landscape Area (SLA)	0	0.0%
TOTAL	25,327	100.0%

**Irrigation Method	Total Sq. Ft.	% of Landscape
Rotor (FC-R, PC-R)	0	0.0%
Multi-Stream Rotator (MR)	3,931	15.5%
Spray (S)	0	0.0%
Bubbler (B)	5,403	21.3%
Drip (D)	0	0.0%
In-Line Drip (DL)	15,993	63.1%
Micro Spray (MS)	0	0.0%
Other (O)	0	0.0%



BROOKWATER
IRRIGATION CONSULTANTS
1225 QUARRY LANE, SUITE E
PLEASANTON, CALIFORNIA 94566
TEL: 925.855.0417
E-MAIL: OFFICE@BROOKWATER.COM

ZGF
ZIMMER GUNSUL FRASCA ARCHITECTS LLP

DENVER
LOS ANGELES
NEW YORK
PORTLAND
SEATTLE
WASHINGTON, DC
VANCOUVER, BC

1223 SW Washington Street
Suite 200
Portland, OR 97205
503.224.3860
www.zgf.com

ZGF Project Number P26717.wrss
Consultant

IA
INTERSTICE ARCHITECTS
ARCHITECTURE URBAN DESIGN
LANDSCAPE ARCHITECTURE
www.intersticearchitects.com
1173 Sutter Street, San Francisco
415.285.3960 CA 94109
Full Design Team Roster on Cover Sheet

Client and Project Information

Stanford MEDICINE

1215 WELCH RD.

STANFORD UNIVERSITY
SCHOOL OF MEDICINE

Original Issue
ASA SUBMITTAL 12.06.2024

Revisions

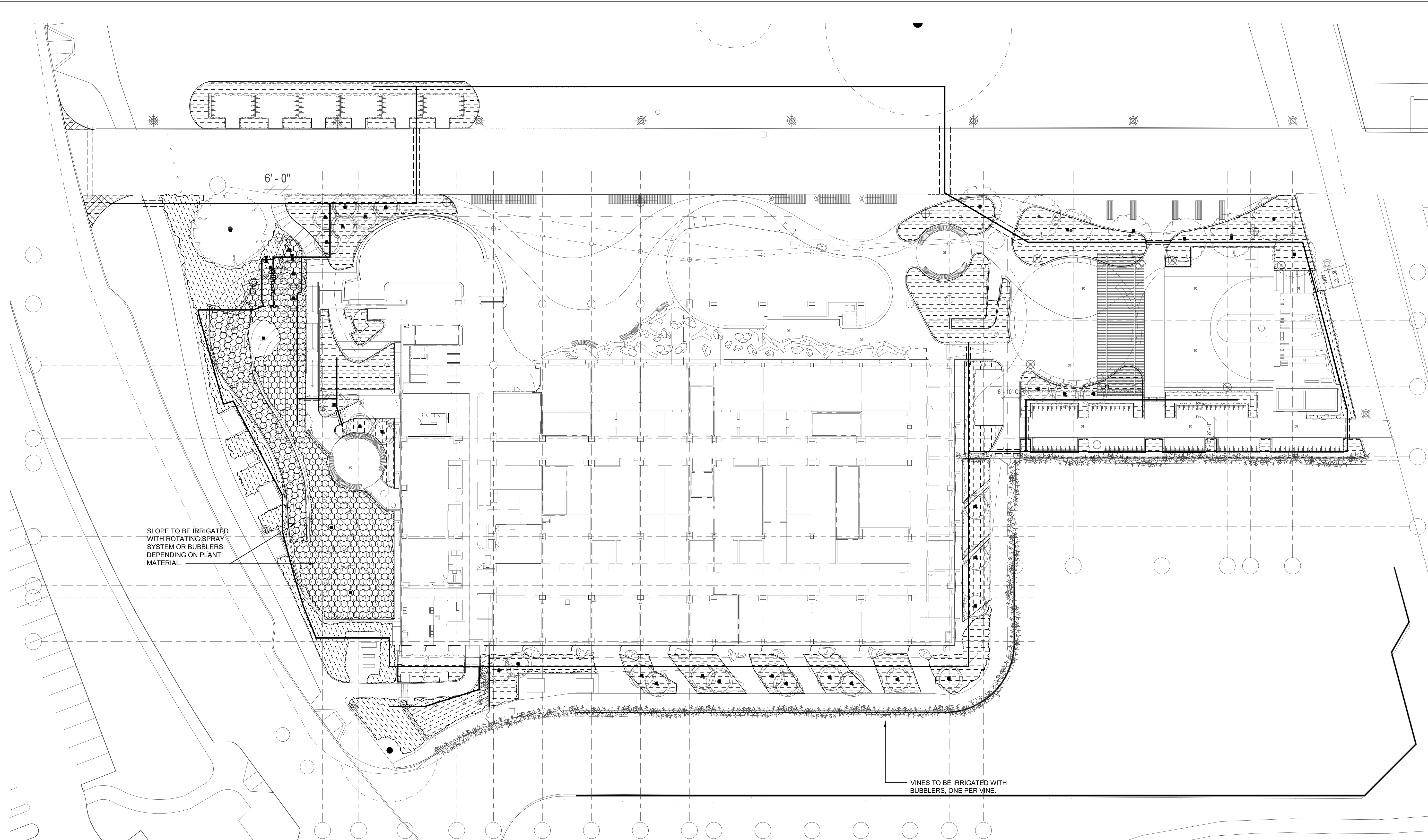
Key Plan and Orientation

Sheet Status

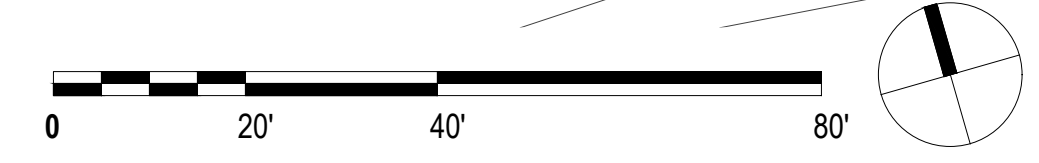
Sheet Title
IRRIGATION GENERAL NOTES & LEGEND

Sheet Number

ASA-L7.00
Current Issue
ASA SUBMITTAL
Current Issue Date
12.06.2024



① IRRIGATION PLAN - GROUND LEVEL
1" = 20'-0"



Sheet Size: 24 x 36 | 11/14/2024 3:03:48 PM



ZIMMER GUNSUL FRASCA ARCHITECTS LLP
DENVER
LOS ANGELES
NEW YORK
PORTLAND
SEATTLE
WASHINGTON, DC
VANCOUVER, BC
1223 SW Washington Street
Suite 200
Portland, OR 97205
503.224.3860
www.zgf.com

ZGF Project Number P26717.wrss
Consultant
INTERSTICE ARCHITECTS
ARCHITECTURE URBAN DESIGN
LANDSCAPE ARCHITECTURE
www.intersticearchitects.com
1173 Sutter Street, San Francisco
415.285.3960 CA 94109
Full Design Team Roster on Cover Sheet



Client and Project Information
1215 WELCH RD.
STANFORD UNIVERSITY
SCHOOL OF MEDICINE
Original Issue
ASA SUBMITTAL 12.06.2024

Revisions
Key Plan and Orientation

Sheet Status

Sheet Title
IRRIGATION PLAN

Sheet Number

ASA-L7.10

Current Issue
ASA SUBMITTAL

Current Issue Date
12.06.2024

BROOKWATER
IRRIGATION CONSULTANTS
1228 QUARRY LANE, SUITE E
PLEASANTON, CALIFORNIA 94566
TEL 925.855.0417
E-MAIL OFFICE@BROOKWATER.COM

LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	HOUSING	SHIELDING	MOUNTING	FINISH	UL/IP RATING	DRIVER	LAMP(S)	INPUT WATTS	VOLTAGE	MFG/CATALOG #
T	EXTERIOR LEVEL 1 CANOPY SURFACE MOUNTED LUMINAIRE, 62 DEGREE BEAM DISTRIBUTION	ALUMINUM ALLOY	CLEAR SAFETY GLASS	SURFACE MOUNT	BLACK	WET	0-10V DIMMABLE	LED, 2920 LUMENS, 2700K, 90+CRI	28W	UNV	BEGA B24416 #B24416-K27-BLK OR APPROVED EQUIVALENT
T2	HANDRAIL LIGHTING AT EXTERIOR STAIRS	ALUMINUM	LENS	LIGHTING MOUNTED INTO RAIL SYSTEM	STANDARD	WET	0-10V DIMMABLE	LED, 2700K, 122LM/W	2.2W EACH	24VDC WITH 120V POWER SUPPLY	WAGNER LUMENPOD 28 ASSYMETRIC LULR X 27K A 5 OR APPROVED EQUIVALENT
T3	SURFACE MOUNTED SQUARE DOWNLIGHT TO EXTERIOR CANOPIES	ALUMINUM	CLEAR GLASS	SURFACE MOUNTED ON CEILING ABOVE SLATS	BLACK	IP65	LEADING/ TRAILING EDGE DIMMING	LED, 2700K, 900 LUMENS	11.4W	120V	ASTRO LIGHTING KOS SQUARE 140 LED OR APPROVED EQUIVALENT
T4	EXTERIOR TRELLIS MOUNTED LUMINAIRE	ALUMINUM	LENS	MOUNTED TO SIDE OF WOOD SLATS - REFER TO LANDSCAPE DETAIL	TO BE CONFIRMED	WET	0-10V DIMMING	LED, 2700K, 634 LUMENS	12W	UNV	TARGETTI BULLETO RP BZ L2 MF 27 DML E601242UD 1E3786 BRACKET OR APPROVED EQUIVALENT
AP	EXTERIOR AREA POLE LIGHT	ALUMINUM POLE AND FIXTURE TOP	INDIRECT REFLECTOR	POLE MOUNTED 14' TOTAL, 11'8" POLE	STANFORD STANDARD BLACK	WET	0-10V DIMMING	LED, 3998 LUMENS, 80+CRI, 3000K	64.5W	UNV	BEGA B77210 + K3 WITH 906HR POLE WITH MOTION SENSOR ON POLE TO MEET TITLE 24 (BEGA EMS-L3) OR APPROVED EQUIVALENT
GP	EXTERIOR GLOBE POLE LIGHT	ALUMINUM POLE AND FIXTURE TOP	LENS	POLE MOUNTED TO 12' POLE	CAMPUS STANDARD BLACK FINISH	WET	0-10V DIMMING	LED, 2700K, 4020 LUMENS	58W	UNV	BEGA B84404 K27 POLE: 906HR-12'-BLK OR APPROVED EQUIVALENT
EL	EXTERIOR MULTI POLE BASKETBALL COURT LIGHTING (HIGH OUTPUT)	DIE CAST ALUMINUM HOUSING	TEMPERED CLEAR GLASS LENS	POLE MOUNTED	CAMPUS STANDARD BLACK FINISH	WET	0-10V DIMMING	LED, 2700K, 2710 LUMENS	31W	277V	SELUX OLIVIO MEDIO LED OLML-F40-X-2G700-30-XX-UNV OR APPROVED EQUIVALENT
EL2	EXTERIOR MULTI POLE LIGHTING (MID OUTPUT)	DIE CAST ALUMINUM HOUSING	TEMPERED CLEAR GLASS LENS	POLE MOUNTED	CAMPUS STANDARD BLACK FINISH	WET	0-10V DIMMING	LED, 2700K, 2037 LUMENS	23W	277V	SELUX OLIVIO MEDIO LED OLML-F40-X-2G525-30-XX-UNV OR APPROVED EQUIVALENT
LS	EXTERIOR CAMPUS STANDARD LANTERN LIGHT	ALUMINUM POLE AND FIXTURE TOP	FROSTED GLASS OPTIC	POLE MOUNTED TO 10' POLE	CAMPUS STANDARD BLACK FINISH	WET	STANDARD	LED, 2700K, 5692 LUMENS	50W	UNV	HOLOPHANE PTE3-P30-27K-MVOLT-GL3-BK-BL-SR-RFD-FROSTED GLASS OPTIC, POLE: RFD201757 0908-3050413A-BK-HH-SC ANCHOR BOLTS: AB9083050413B W/G BOLT PATTERN BLACK
PL	EXTERIOR PLANTER LIGHT	DIE CAST ALUMINUM HOUSING	TEMPERED GLASS	GROUND PLANTER ADJUSTABLE STAKE	DARK ALUMINIUM	WET	REVERSE PHASE CUT DIMMER	LED, 2700K, 111 LUMENS	2.2W	120V	LUMASCAPE DAXIS-S 2 1LED K27 FL USA DA STAKE, POWER SUPPLY: ST-120-DIM OR APPROVED EQUIVALENT
BL	EXTERIOR BOLLARD LIGHT	CORROSION RESISTANT ALUMINIUM	ANTI GLARE CONE	GROUND SOCKET FOR PLANTING IN PLANTER	CAMPUS STANDARD BLACK FINISH	WET	0-10V DIMMING	LED, 2700K, 840 LUMENS	8W	UNV	ERCO LIGHTING 35744.023 IN 2700K + MOUNTING PLATE AND GROUND SOCKET OR APPROVED EQUIVALENT
WL	EXTERIOR WALL LIGHT	MARINE GRADE DIE CAST ALUMINIUM	HIGHT IMPACT LENS	WALL MOUNTED AT 8FT	CAMPUS STANDARD BLACK FINISH	WET	0-10V DIMMING	LED, 3000K, 2586 LUMENS	30W	UNV	KENALL MILLENIUM ROUND MR17EL PP MB 2530K DV SA OR APPROVED EQUIVALENT

NOTES:

- 1 THIS LUMINAIRE SCHEDULE IS NOT COMPLETE WITHOUT A COPY OF THE LIGHTING SPECIFICATIONS.
- 2 DIMMING CONTROL PROTOCOL (0-10VDC, LINE VOLTAGE, DALI, ETC.) COMPATIBLE WITH LIGHTING CONTROL SYSTEM AS SPECIFIED AND SHOWN ON DRAWINGS.
- 3 PROVIDE +/- 12 INCH ADJUSTABILITY IN AIRCRAFT CABLE LENGTH WHERE USED.
- 4 COORDINATE ALL CEILING TYPES WITH LUMINAIRE LOCATIONS PRIOR TO ORDERING LUMINAIRES. COORDINATE INSTALLATION WITH REFLECTED CEILING PLAN.
- 5 SPECIFIED MANUFACTURERS ARE APPROVED TO SUBMIT BID. INCLUSION DOES NOT RELIEVE MANUFACTURER FROM SUPPLYING PRODUCT AS DESCRIBED.
- 6 PROVIDE SUBMITTALS THAT INCLUDE THE LUMINAIRE, LAMP AND DRIVER INFORMATION OF EACH LUMINAIRE, WITH APPLICABLE OPTIONS CLEARLY CHECKED OR HIGHLIGHTED. SUBMITTALS NOT INCLUDING THIS INFORMATION WILL BE RETURNED AS REJECTED BY THE ENGINEER OF RECORD.
- 7 PROVIDE COMMISSIONING OF THE LIGHTING AND LIGHTING CONTROLS IN ACCORDANCE WITH CALIFORNIA TITLE 24 LIGHTING COMMISSIONING REQUIREMENTS.



ZIMMER GUNSUL FRASCA ARCHITECTS LLP

DENVER
LOS ANGELES
NEW YORK
PORTLAND
SEATTLE
WASHINGTON, DC
VANCOUVER, BC

1223 SW Washington Street
Suite 200
Portland, OR 97205
503.224.3860
www.zgf.com

ZGF Project Number P26717.wrss

Consultant



PROJECT 2024-0227
CONTACT Kristina Santi
1999 Harrison Street, Suite 550
Oakland, CA 94612
TEL: 415-469-7240
www.interfaceengineering.com

Full Design Team Roster on Cover Sheet

Client and Project Information



1215 Welch Road

Original Issue
ASA SUBMITTAL 12.06.2024

Revisions

Key Plan and Orientation

Sheet Status

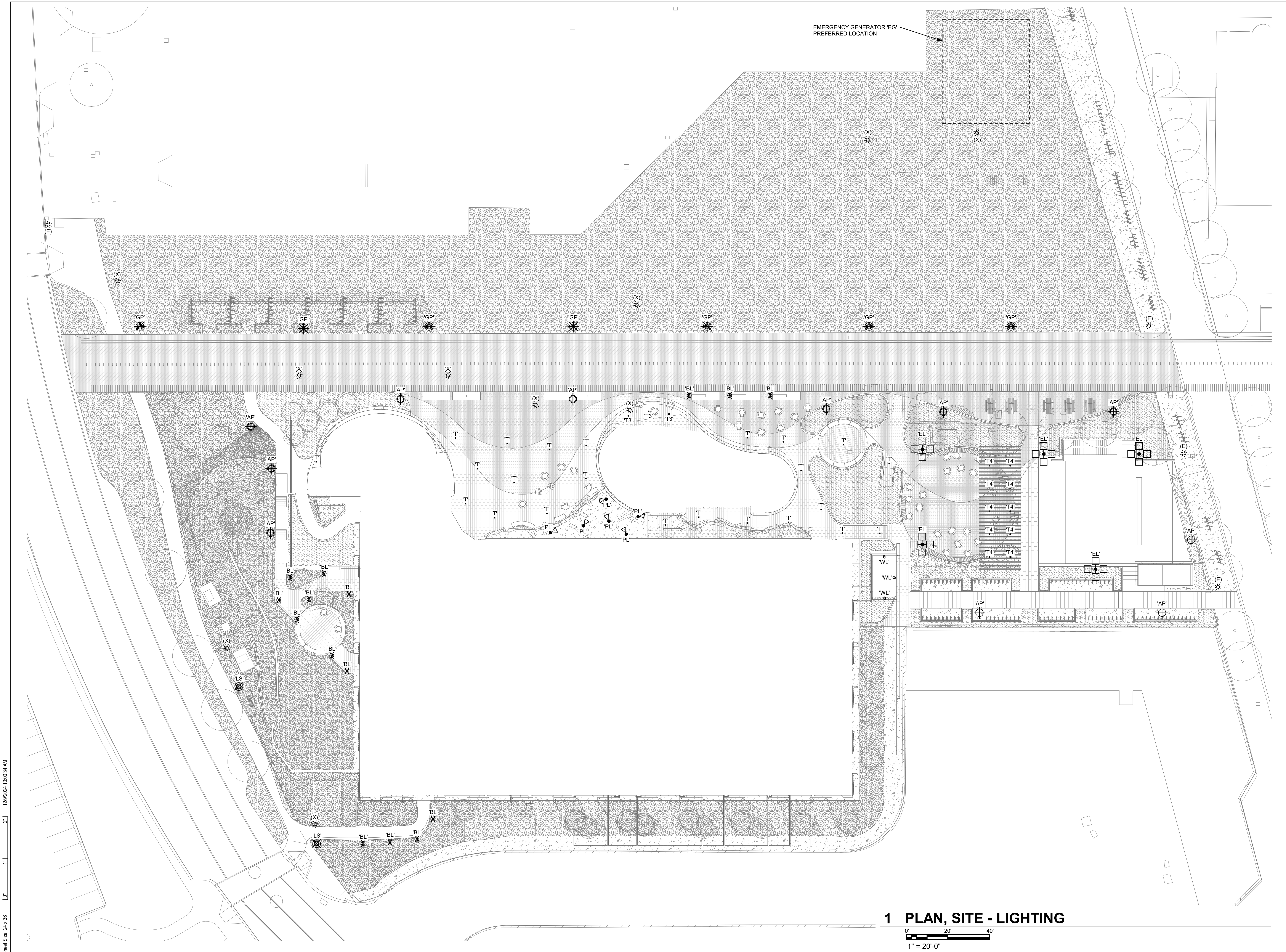
Sheet Title
LUMINAIRE SCHEDULE

Sheet Number

ASA-EL0.02

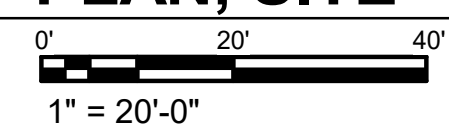
Current Issue
ASA SUBMITTAL

Current Issue Date
12.06.2024



Sheet Size: 24" x 36" 12/29/2024 10:00:34 AM

1 PLAN, SITE - LIGHTING



ZGF
ZIMMER GUNSUL FRASCA ARCHITECTS LLP

DENVER
LOS ANGELES
NEW YORK
PORTLAND
SEATTLE
WASHINGTON, DC
VANCOUVER, BC
1223 SW Washington Street
Suite 200
Portland, OR 97205
503.224.3860
www.zgf.com

ZGF Project Number P26717.wrss
Consultant

INTERFACE
ENGINEERING

PROJECT 2024-0227
CONTACT Kristina Santi
1999 Harrison Street, Suite 550
Oakland, CA 94612
TEL 415-489-7240
www.interfaceengineering.com

Full Design Team Roster on Cover Sheet
Client and Project Information

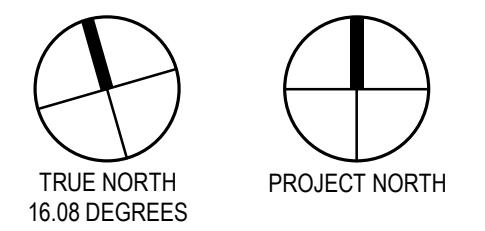
Stanford
MEDICINE

1215 Welch Road

Original Issue
ASA SUBMITTAL 12.06.2024

Revisions

Key Plan and Orientation



Sheet Status

Sheet Title
PLAN, SITE - LIGHTING

Sheet Number

ASA-EL1.01

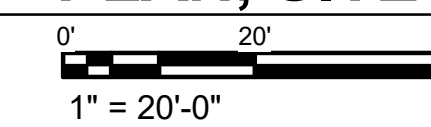
Current Issue
ASA SUBMITTAL

Current Issue Date
12.06.2024

Tag	Label	Symbol	Qty	LLF	Luminaire Lumens	Luminaire Watts	Total Watts
T4	BLTRPFEL2WF27	⬇	10	0.850	634	12	120
EL	OLML-F40-X-ZG700-30-XX-UNV	⬆	6	0.850	2710	31	186
WL	MR17FL-PP-MW-25L35K-DCC-DV	⬇	3	0.850	3117	29.43	88.29
LS	PTES P90 27K GLD	⊙	5	0.850	5023	50.62	253.1
T	24416K27 BEGA IES	⊙	25	0.850	2754	28	700
BL	erco-35744-023-en_us-ies (1)	⊙	15	0.850	183	9.8	147
EL	OLML-F40-X-ZG525-30-XX-UNV	⬆	14	0.850	2037	23	322
AP	77210_30DEG_BEGA IES	⊙	10	0.850	4384	62	620
T3	130633 Xos Square T40 LED_Ph	⊙	3	0.850	903	11.9	35.7
GP	84404 BEGA IES	⊙	7	0.850	4020	58	406
AP	77210 BEGA IES	⊙	1	0.850	4320	62	62

Label	Units	Avg	Max	Min	Avg/Min	Max/Min
Basketball Courts	Fc	5.50	17.4	1.2	4.58	14.50
Bike Rack path	Fc	1.35	4.5	0.1	13.50	45.00
Cafe/Seating	Fc	2.75	10.7	0.3	9.17	35.67
Discovery Walk	Fc	1.19	4.4	0.1	11.90	44.00
East Plaza	Fc	4.63	16.7	0.1	46.30	167.00
Main Entry	Fc	4.91	13.3	0.2	24.55	66.50
New stair	Fc	3.10	4.6	2.0	1.55	2.30
Sky Garden	Fc	1.31	4.0	0.1	13.10	40.00
South egress path	Fc	2.04	4.0	0.7	2.91	5.71
Welch sidewalk	Fc	1.11	5.2	0.0	N.A.	N.A.
West Egress path	Fc	4.31	12.4	0.8	5.39	15.50

1 PLAN, SITE - LIGHTING PHOTOMETRIC CALCULATION



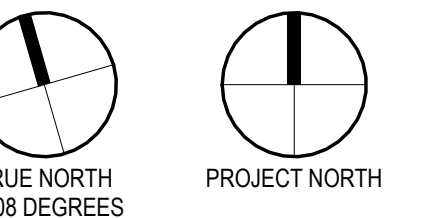


1215 Welch Road

Original Issue
ASA SUBMITTAL 12.06.2024

Revisions

Key Plan and Orientation



Street Status

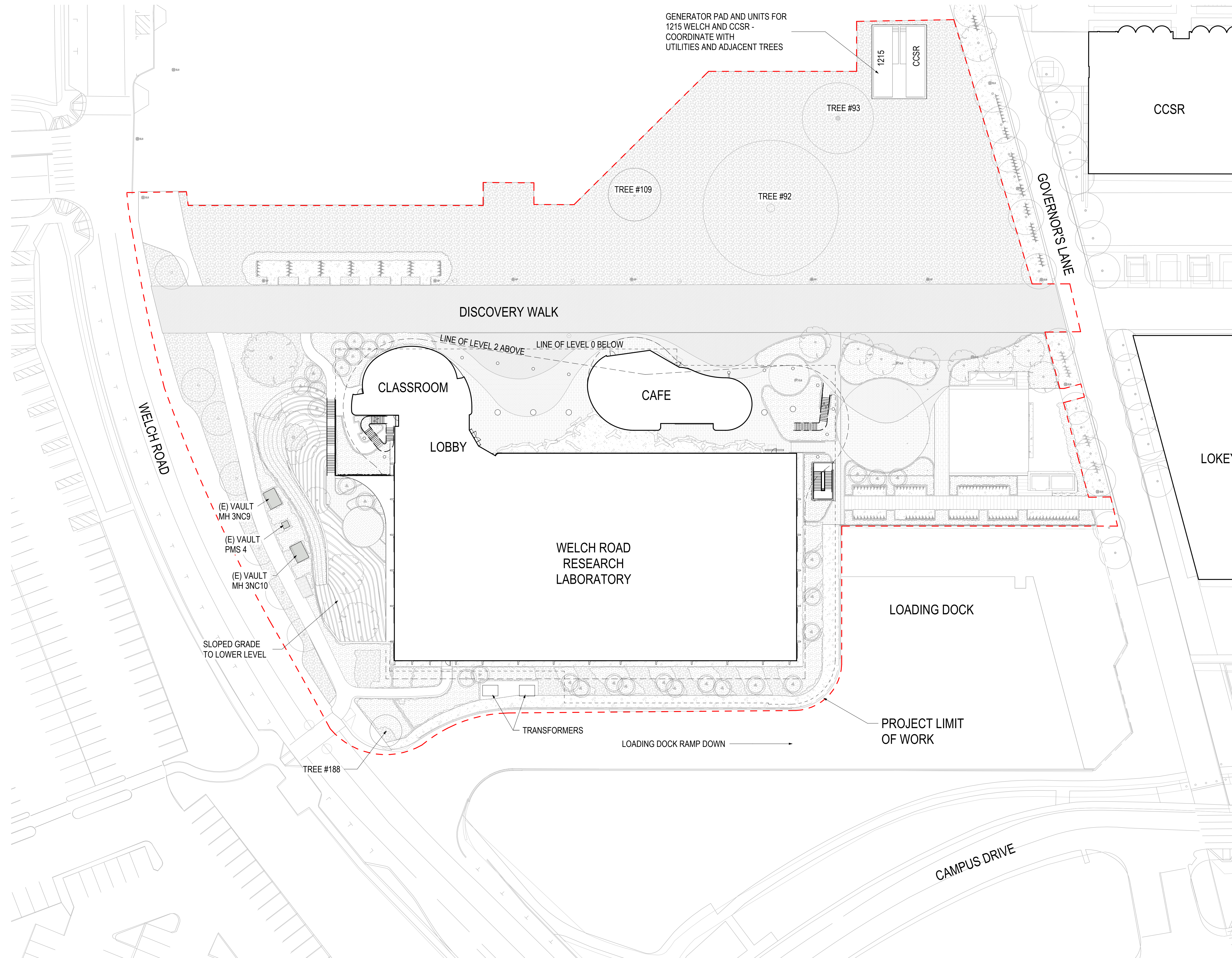
Sheet Title
**OVERALL SITE PLAN
SCOPE OF WORK**

Sheet Number

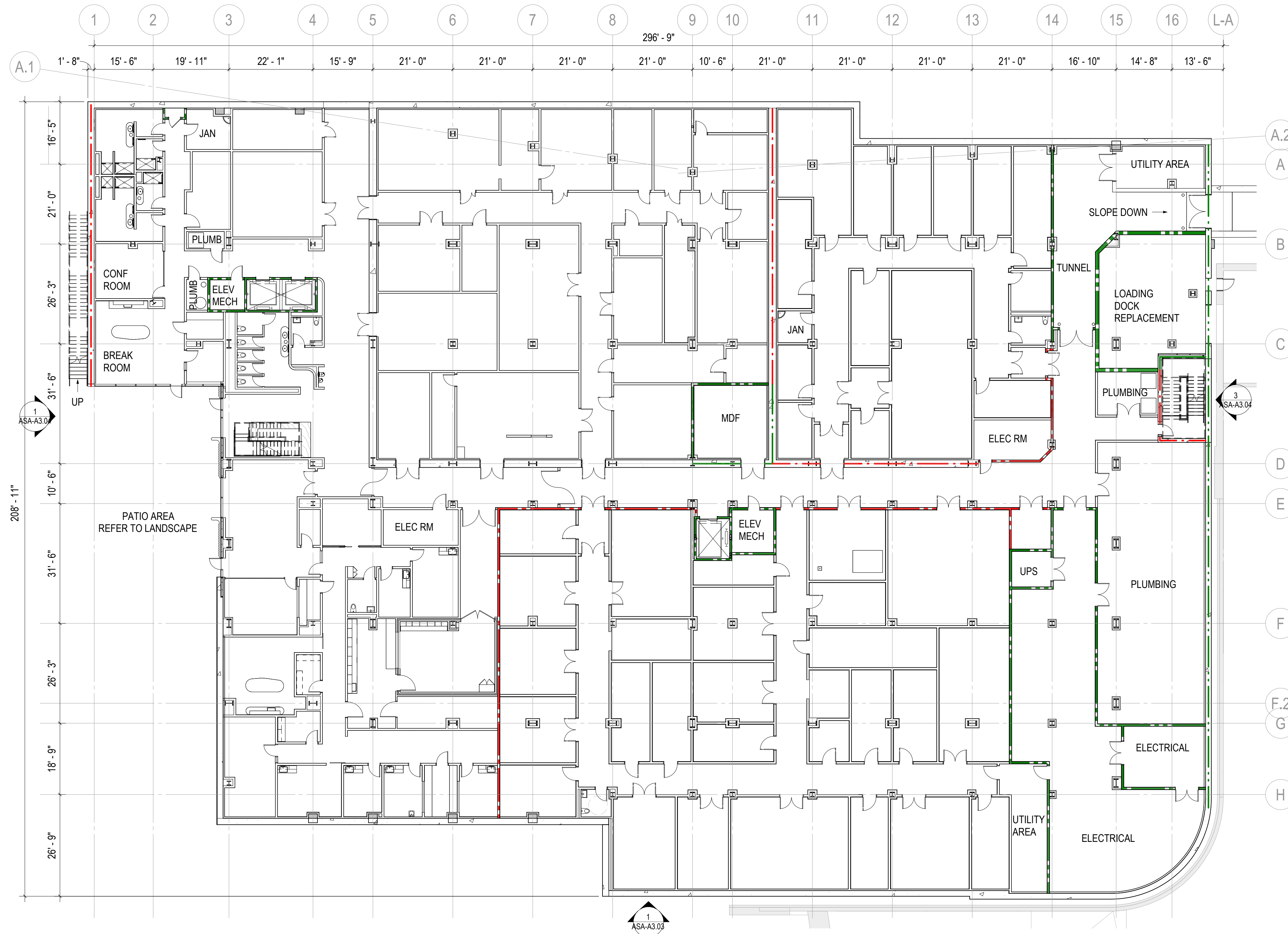
ASA-A1.00

Current Issue
ASA SUBMITTAL

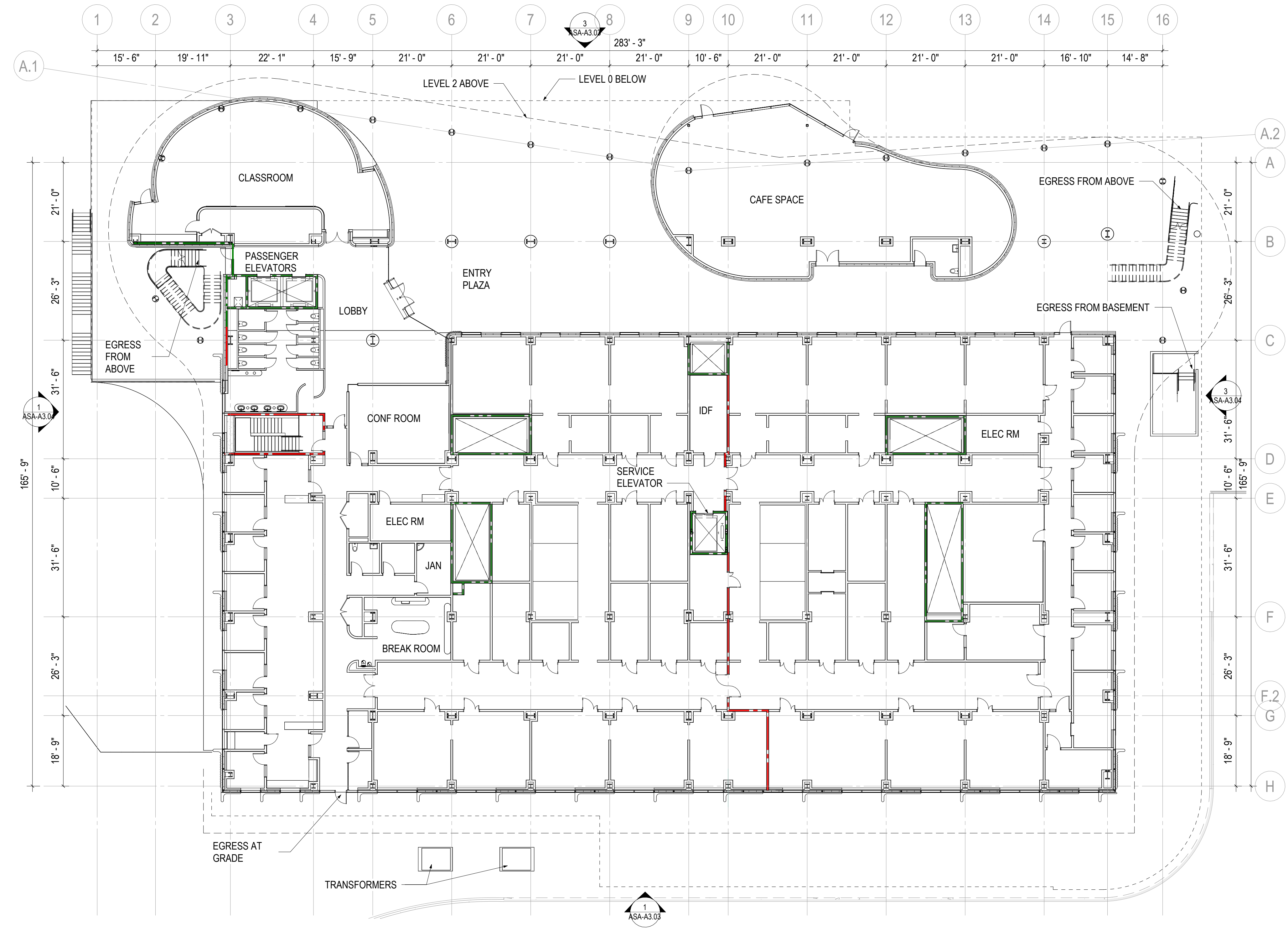
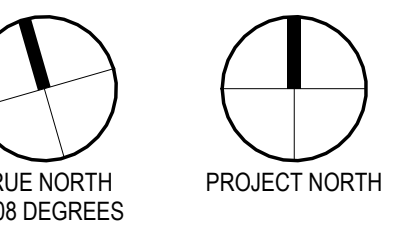
Current Issue Date
12.06.2024



1 SITE - OVERALL PLAN ASA
ASA-A1.00 1" = 30'-0"

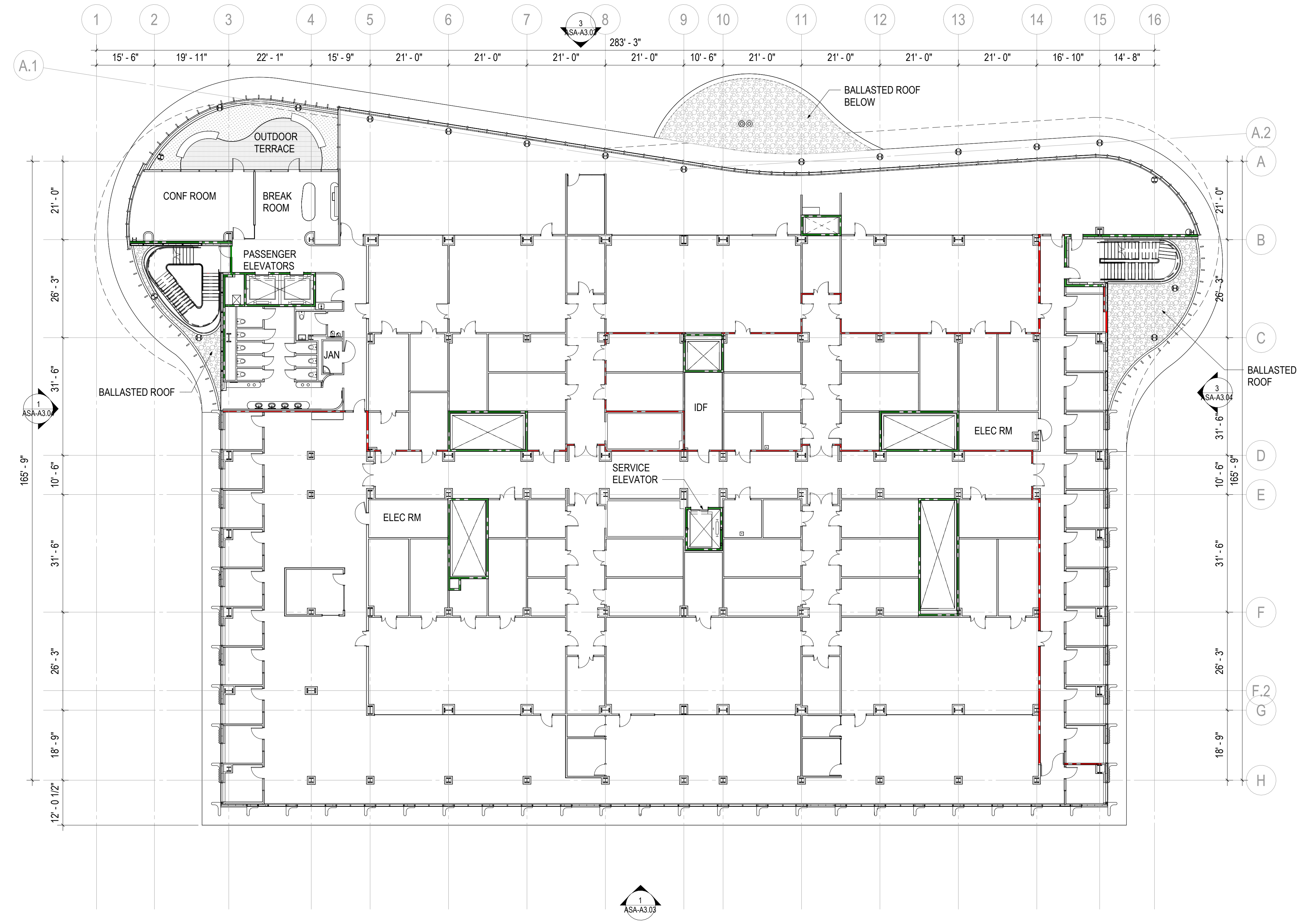


2 LEVEL 0 - OVERALL PLAN ASA
ASA-A1.01 1/16" = 1'-0"



2 LEVEL 1 - OVERALL PLAN ASA
ASA-A1.02 1/16" = 1'-0"

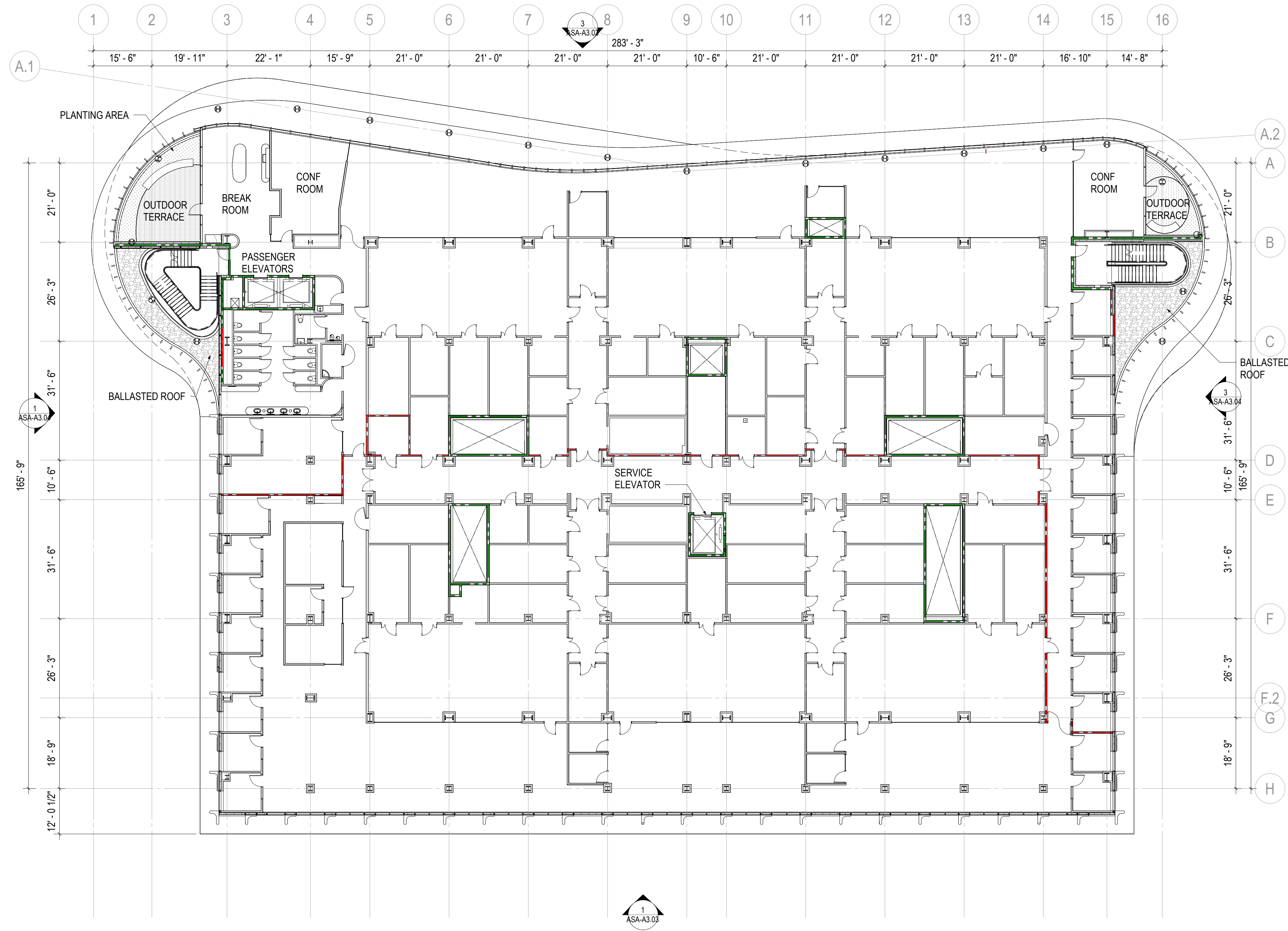
Sheet Size: 24 x 36 [0' 1" 2/26/2024 3:34:21 PM 2']



2 LEVEL 2 - OVERALL PLAN ASA
 1/16" = 1'-0"

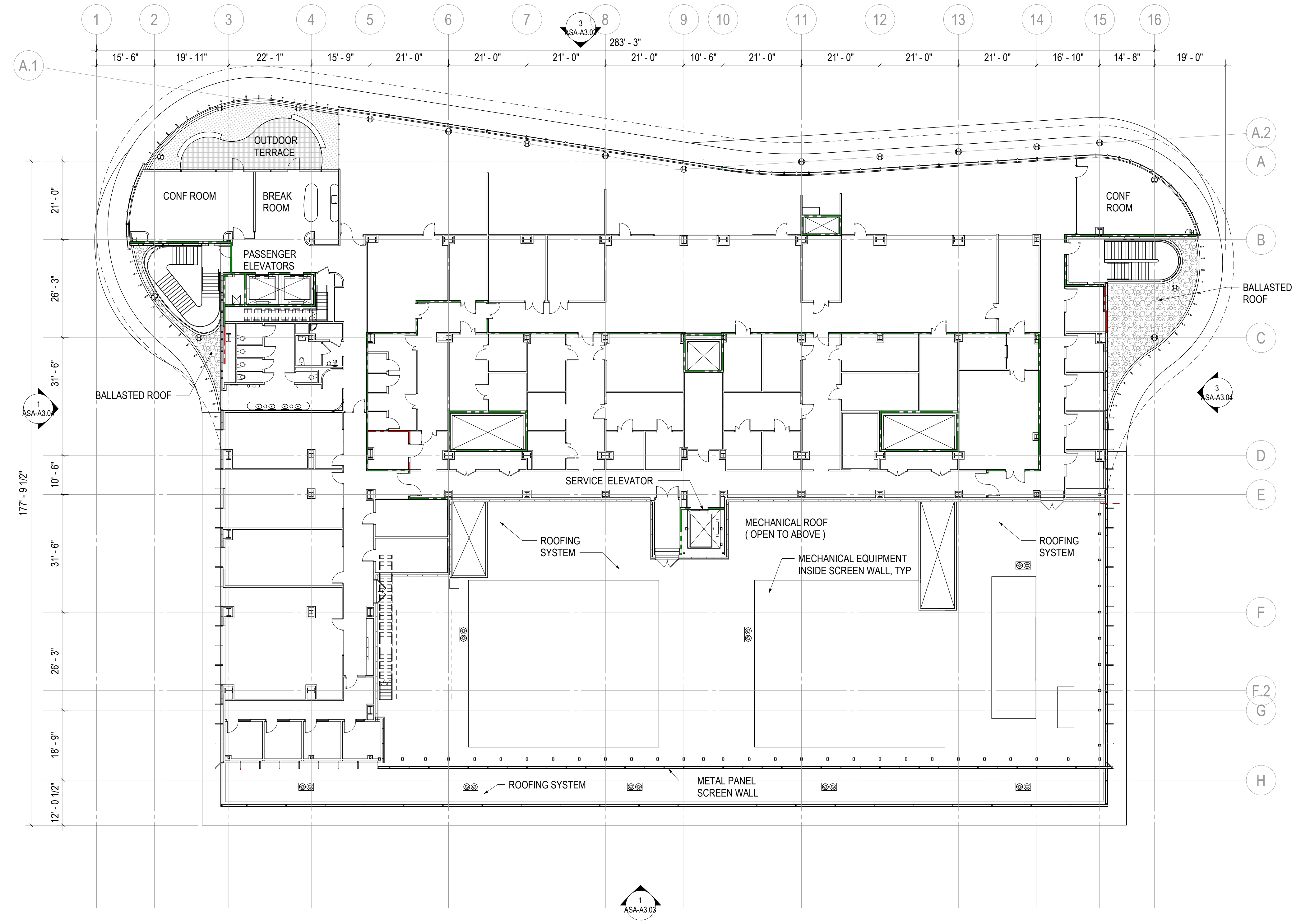
Sheet Size: 24 x 36 [0' 1"] 12/26/2024 3:34:24 PM 2'





2 LEVEL 3 - OVERALL PLAN ASA
ASA-A1.04 1/16" = 1'-0"

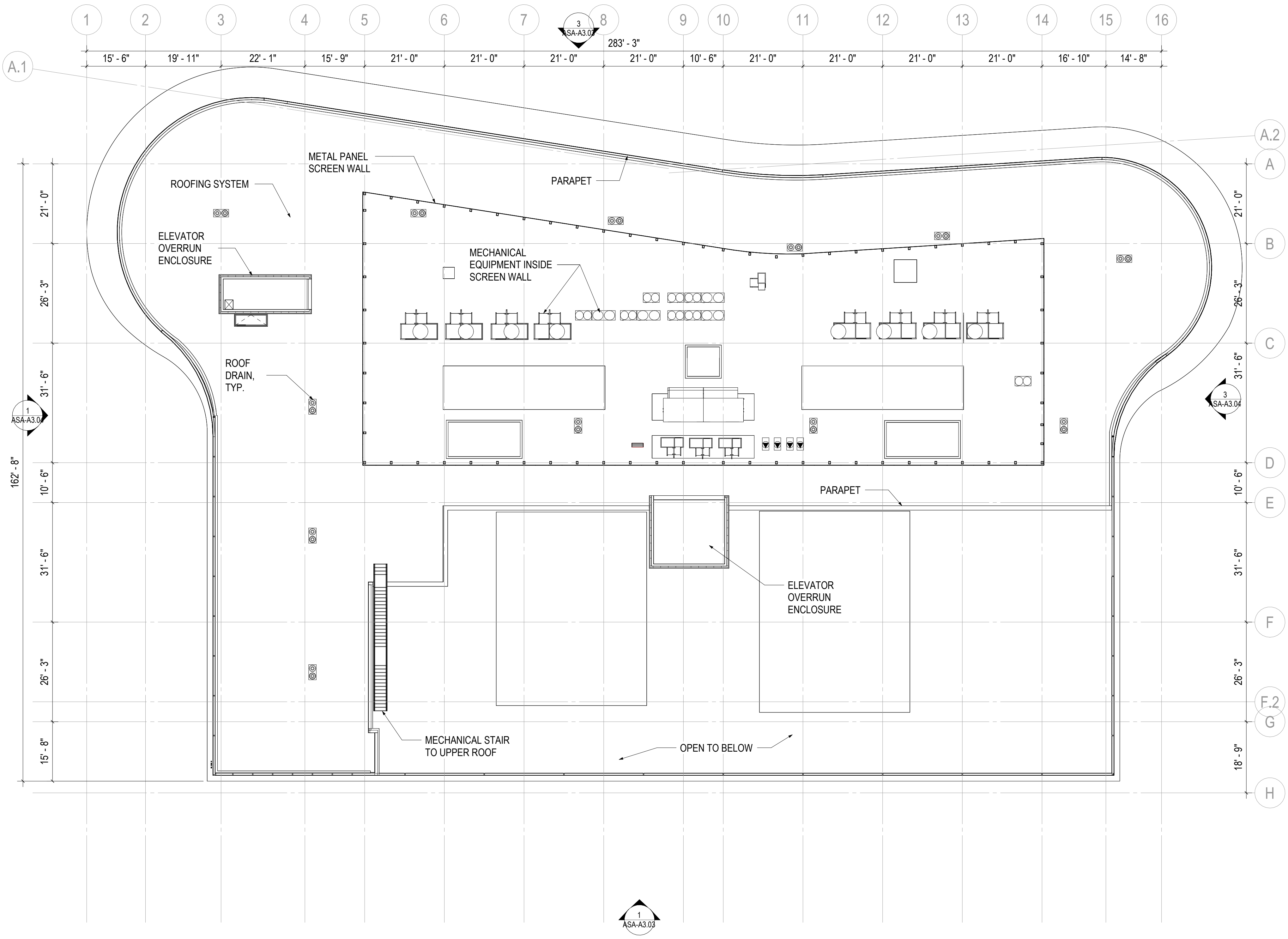
Sheet Size: 24 x 36 1/2" 12/26/2024 3:34:26 PM 2'



2 LEVEL 4 - OVERALL PLAN ASA
ASA-A1.05 1/16" = 1'-0"

Sheet Size: 24 x 36 12/26/2024 3:34:28 PM 2' 1"








2 ROOF - OVERALL PLAN ASA
ASA-A1.06 1/16" = 1'-0"

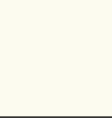



MATERIAL LEGEND

WINDOWS, DOORS & FRAMES

-  VISION GLAZING
-  SPANDREL GLAZING
-  PAINTED ALUMINUM



EXTERIOR WALLS

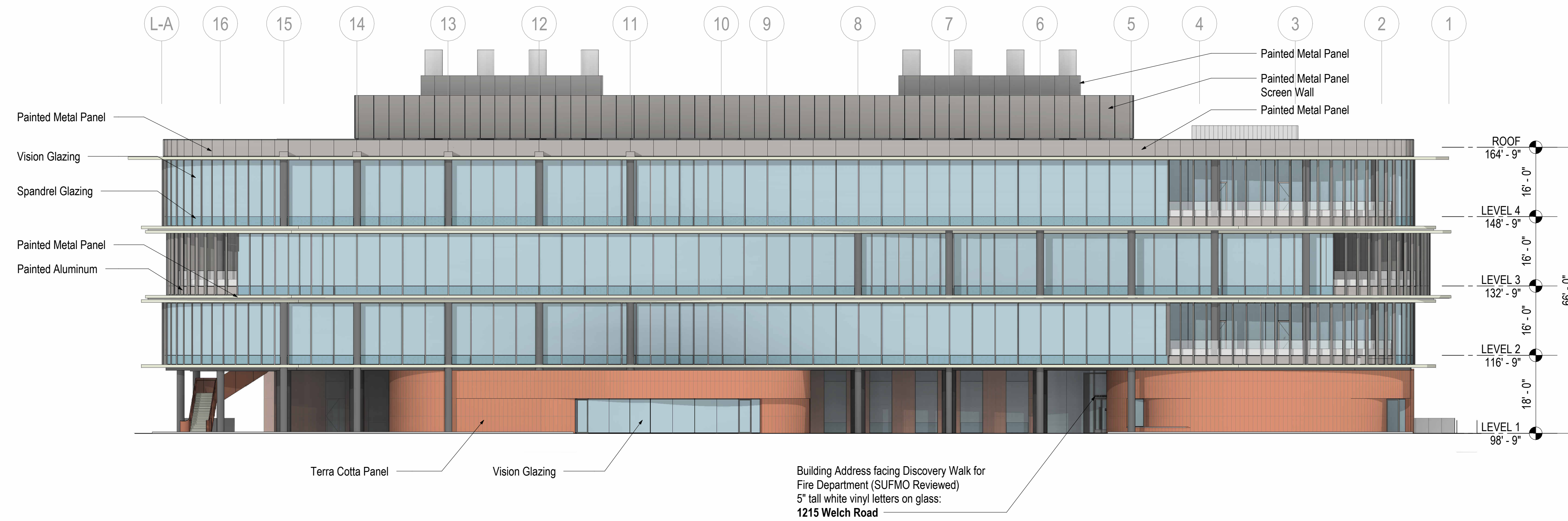
-  TERRA COTTA PANEL RAINSCREEN ASSEMBLY
-  TERRA COTTA PANEL RAINSCREEN ASSEMBLY

TRIM

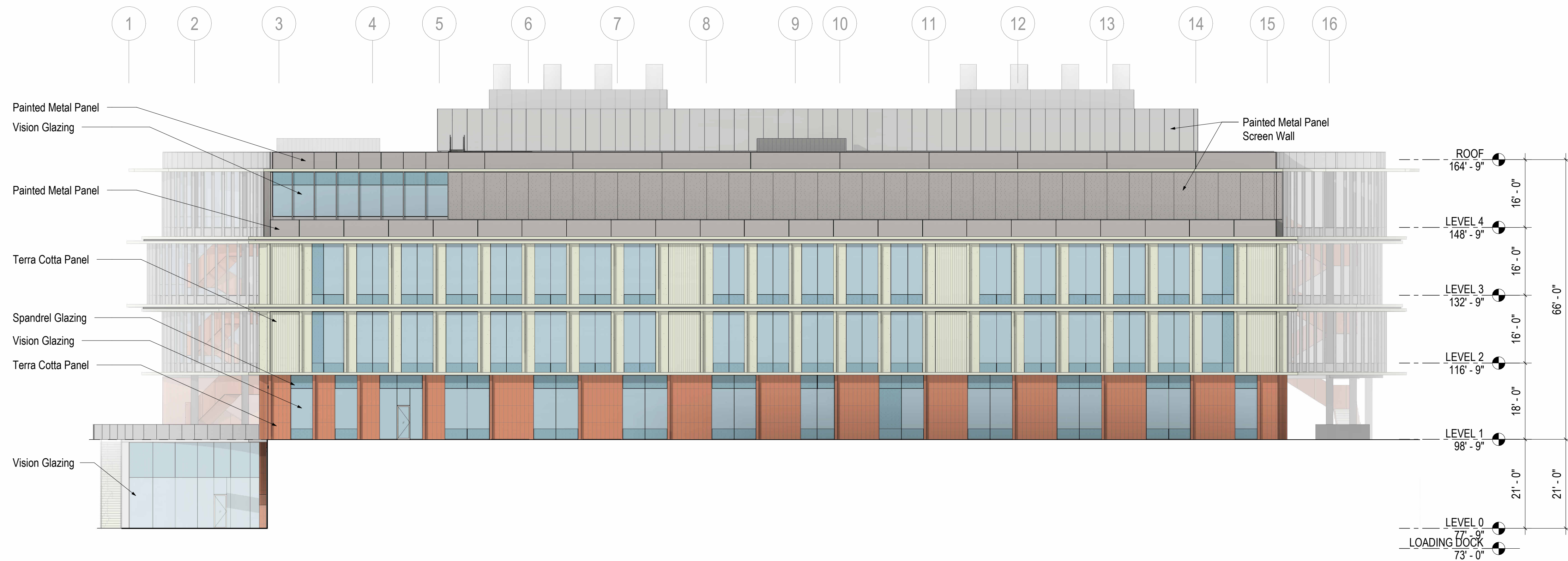
-  PAINTED METAL PANEL

ARCHITECTURAL ACCENTS

-  PAINTED METAL PANEL
-  PAINTED METAL PANEL






3 NORTH ELEVATION ASA
ASA-A3.03 1/16" = 1'-0"



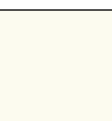

1 SOUTH ELEVATION ASA
ASA-A3.03 1/16" = 1'-0"

MATERIAL LEGEND

WINDOWS, DOORS & FRAMES

-  VISION GLAZING
-  SPANDREL GLAZING
-  PAINTED ALUMINUM



EXTERIOR WALLS

-  TERRA COTTA PANEL RAINSCREEN ASSEMBLY
-  TERRA COTTA PANEL RAINSCREEN ASSEMBLY

TRIM

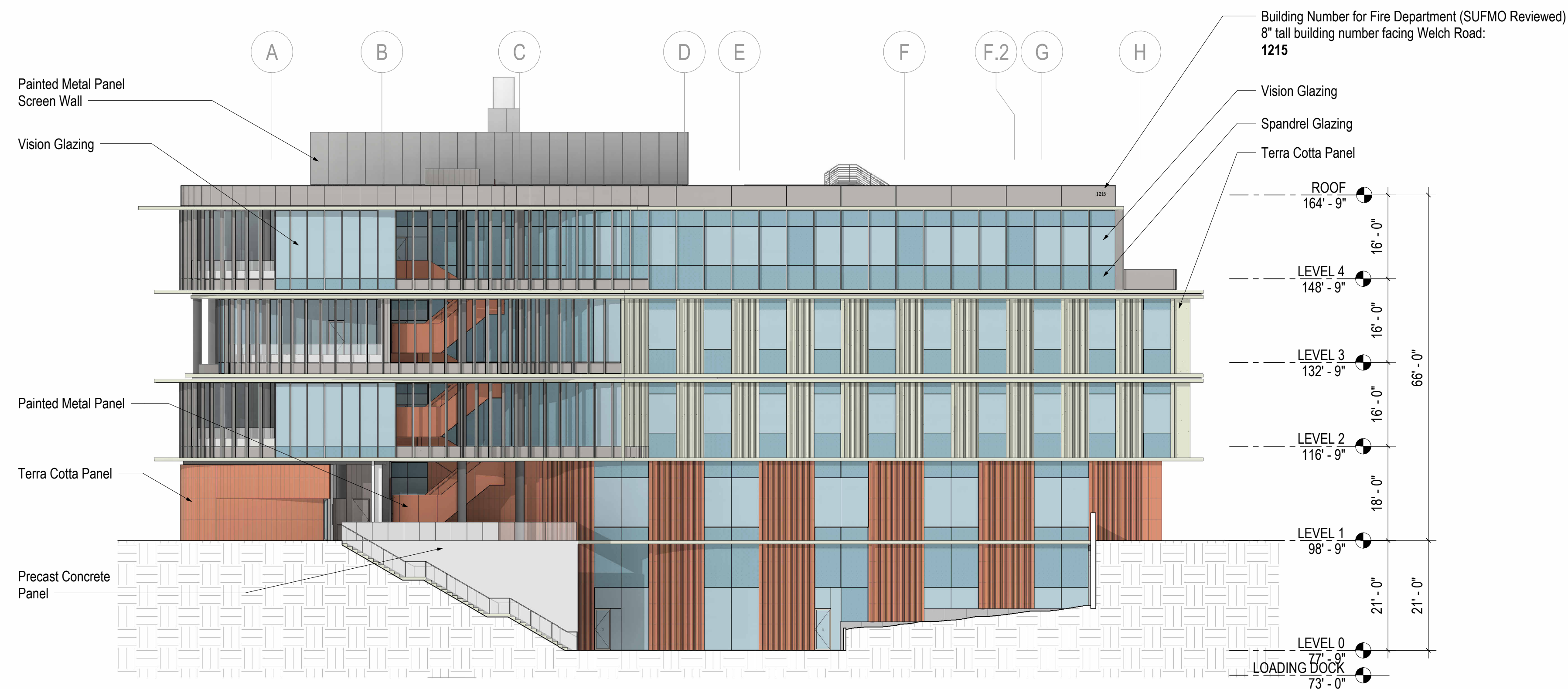
-  PAINTED METAL PANEL

ARCHITECTURAL ACCENTS

-  PAINTED METAL PANEL
-  PAINTED METAL PANEL



3 EAST ELEVATION ASA
ASA-A3.04 1/16" = 1'-0"



1 WEST ELEVATION ASA
ASA-A3.04 1/16" = 1'-0"