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	C0.1	SITE SURVEY (FOR REFERENCE ONLY)
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CASBS Stanford University

75 Alta Rd, Stanford, CA 94305

ASX SUBMITTAL
03/12/2019

Olson Kundig

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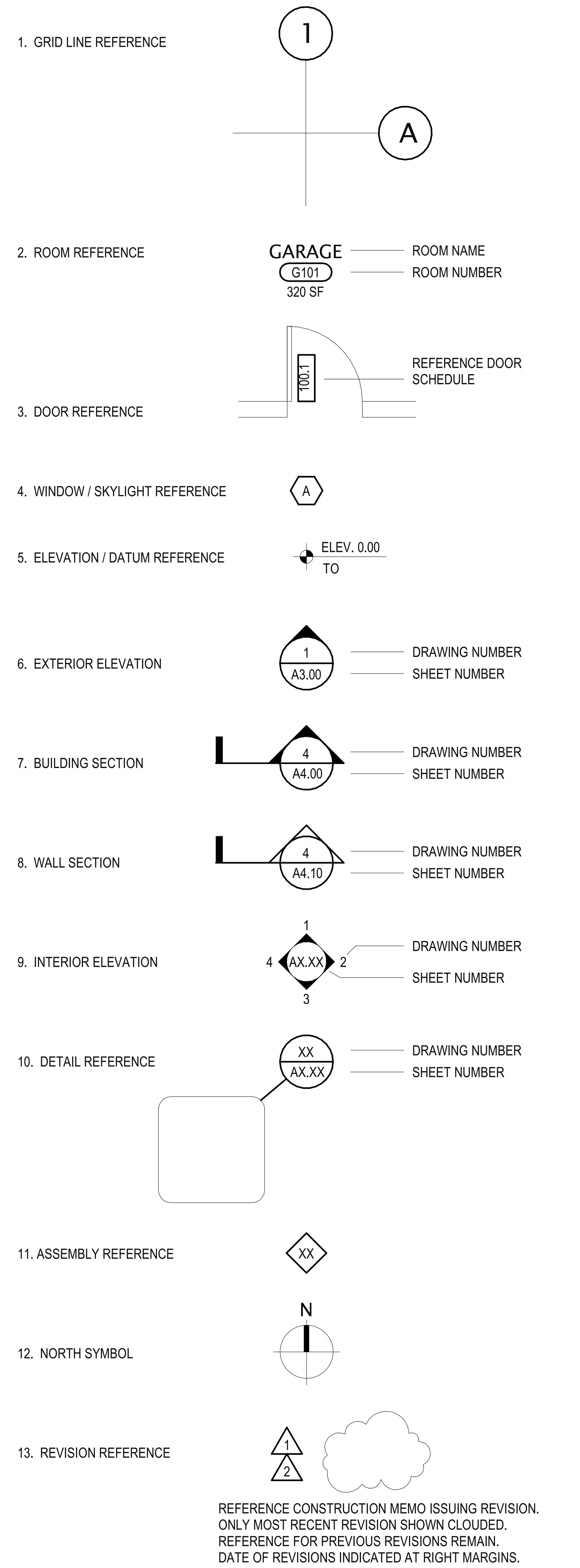
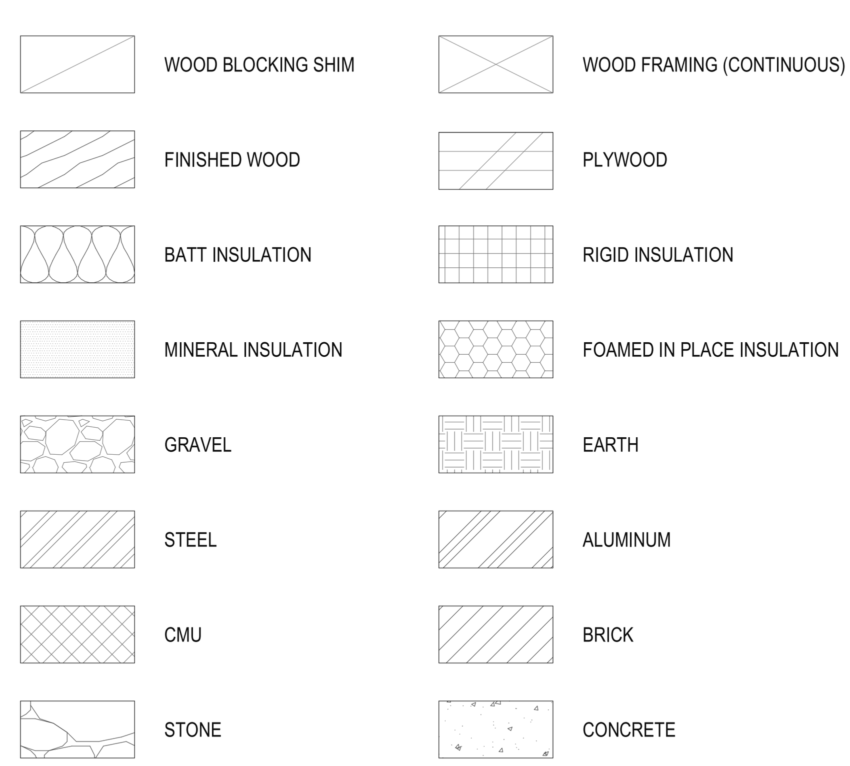
ABBREVIATIONS

@	AT
℄	CENTERLINE
℘	PROPERTY LINE
Ø	DIAMETER
#	POUND OR NUMBER
(E)	EXISTING
(N)	NEW
AB	ANCHOR BOLT
ABV	ABOVE
ACC	ACCESS
ACOUS	ACOUSTICAL
ACP	ASPHALT CONCRETE PAVING
ACS	ACCESS PANEL
ACT	ACOUSTICAL TILE
AD	AREA DRAIN
ADA	AMERICANS with DISABILITIES
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AGGR	AGGREGATE
AIB	AIR INFILTRATION BARRIER
ALT	ALTERNATE
ALUM	ALUMINUM
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL
ASPH	ASPHALT
AUTO	AUTOMATIC
BD	BOARD
BITUM	BITUMINOUS
BLDG	BUILDING
BLKG	BLOCKING
BM	BEAM
BO	BOTTOM OF...
BOT	BOTTOM
BRG	BEARING
BSMT	BASEMENT
BUR	BUILT UP ROOFING
CAB	CABINET
CB	CATCH BASIN
CEM	CEMENT
CER	CERAMIC
CIP	CAST-IN-PLACE
CJ	CONTROL JOINT
CLG	CEILING
CLK	CAULKING
CLO	CLOSET
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CNTR	COUNTER
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
CORR	CORRIDOR
CPT	CARPET; CARPETED
CRS	COLD ROLLED STEEL
CSK	COUNTERSUNK
CT	CERAMIC TILE
CTR	CENTER
CU FT	CUBIC FEET
DBL	DOUBLE
DEMO	DEMOLITION
DET	DETAIL
DIA	DIAMETER
DIM	DIMENSION
DL	DEAD LOAD
DN	DOWN
DR	DOOR
DR OPNG	DOOR OPENING
DS	DOWNSPOUT
DSP	DRY STANDPIPE
DT	DRAIN TILE
DW	DISHWASHER
DWG	DRAWING
E	EAST
EA	EACH
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATOR
ENCL	ENCLOSURE
EQ	EQUAL
EQUIP	EQUIPMENT
EST	ESTIMATE
EW	EACH WAY
EXH FN	EXHAUST FAN
EXIST	EXISTING
EXP	EXPANDED; EXPANSION
EXP BT	EXPANSION BOLT
EXPO	EXPOSED
EXT	EXTERIOR
FA	FIRE ALARM
FB	FLAT BAR
FD	FLOOR DRAIN
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF EL	FINISH FLOOR ELEVATION
FH	FIRE HYDRANT
FHC	FIRE HOSE CABINET
FIN FLR	FINISH FLOOR
FF	FINISH TO FINISH
FIN	FINISH
FLASH	FLASHING
FLR	FLOOR; FLOORING
FLUOR	FLUORESCENT
FOC	FACE OF CONCRETE
FOF	FACE OF FINISH
FOIC	FURNISHED BY OWNER - INSTALLED BY CONTRACTOR
FOM	FACE OF MASONRY
FOS	FACE OF STUDS
FP	FIREPROOF
FPL	FIREPLACE
FR	FRAME
FT	FOOR OR FEET
FTG	FOOTING
FURR	FURRING
FUT	FUTURE
FW	FULL WIDTH
GA	GAUGE
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GL	GLASS
GLAM	GLUE-LAMINATED
GR	GRADE
GWB	GYPSUM WALL BOARD
GYP	GYPSUM
HB	HOSE BIBB
HC	HOLLOW CORE
HDO	HIGH DENSITY OVERLAY
HDR	HEADER
HDWD	HARDWOOD
HDW	HARDWARE
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HP	HIGH POINT
HR	HOUR
HT	HEIGHT
HVAC	HEATING/VENTILATING/AIR CONDITIONING
HW	HOT WATER
HWT	HOT WATER TANK
ID	INSIDE DIAMETER
IN	INCH
INCL	INCLUDED
INSUL	INSULATION
INT	INTERIOR
INV	INVERT
JB	JUNCTION BOX
JF	JOINT FILLER
JT	JOINT
KIT	KITCHEN
KO	KNOCKOUT
LAM	LAMINATE, LAMINATED
LAV	LAVATORY
LBS	POUNDS
LF	LINEAR FOOT (FEET)
LH	LEFT HAND
LL	LIVE LOAD
LOC	LOCATION
LP	LOW POINT
LT	LIGHT
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MB	MACHINE BOLT
MC	MEDICINE CABINET
MDF	MEDIUM DENSITY FIBERBOARD
MDO	MEDIUM DENSITY OVERLAY
MECH	MECHANICAL
MEMB	MEMBRANE
MEZZ	MEZZANINE
MFR	MANUFACTURER
MIN	MINIMUM
MIR	MIRROR
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MTD	MOUNTED
MTL	METAL
MUL	MULLION
N	NORTH
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NR	NOISE REDUCTION
NTS	NOT TO SCALE
OA	OVERALL
OC	ON CENTER
OD	OUTSIDE DIAMETER
	OVERFLOW DRAIN
OFF	OFFICE
OH	OVERHEAD
OHWM	ORDINARY HIGH WATER MARK
OPNG	OPENING
OPP	OPPOSITE
OSB	ORIENTED STRAND BOARD
PBD	PARTICLE BOARD
PCC	PRECAST CONCRETE
PCF	POUNDS PER CUBIC FOOT
PERF	PERFORATED
PERP	PERPENDICULAR
PL	PLATE
PLAM	PLASTIC LAMINATE
PLAS	PLASTER
PLWD	PLYWOOD
PNL	PANEL
PNT	POINT
PR	PAIR
PRCST	PRECAST
PSF	POUNDS PER CUBIC FOOT
PSI	POUNDS PER SQUARE INCH
PT	PRESERVATIVE TREATED
PTN	PARTITION
PVC	POLYVINYL CHLORIDE
R	RISER
RA	RETURN AIR
RAD	RADIUS
RD	ROOF DRAIN
REF	REFERENCE
REFR	REFRIGERATOR
REG	REGISTER
REINF	REINFORCED
REM	REMAINDER
REQ	REQUIRED
RESIL	RESILIENT
REV	REVISION; REVISIONS; REVISED
RH	RIGHT HAND
RM	ROOM
RO	ROUGH OPENING
RWL	RAIN WATER LEADER
S	SOUTH
SAF	SELF-ADHERED FLASHING
SAM	SELF-ADHERED MEMBRANE
SC	SOLID CORE
SCHED	SCHEDULE
SD	SMOKE DETECTOR
SECT	SECTION
SG	SAFETY GLASS
SHV	SHELF; SHELVING
SHR	SHOWER
SHT	SHEET
SHT MTL	SHEET METAL
SHTG	SHEATHING
SIM	SIMILAR
SOG	SLAB ON GRADE
SPEC	SPECIFICATION
SQ FT	SQUARE FOOT (FEET)
SQ IN	SQUARE INCH(ES)
SST	STAINLESS STEEL
STD	STANDARD
STL	STEEL
ST	STONE
STOR	STORAGE
STRUCT	STRUCTURAL
SUSP	SUSPENDED
SYM	SYMMETRICAL
T	TREAD
T&G	TONGUE AND GROOVE
TEL	TELEPHONE
TER	TERRAZZO
TG	TEMPERED GLASS
THK	THICK
TO	TOP OF...
TOB	TOP OF BEAM
TOC	TOP OF CONCRETE; CURB
TOF	TOP OF FLOOR; FOOTING; FRAME
TOM	TOP OF MASONRY
TOP	TOP OF PARAPET; PAVEMENT
TOPO	TOPOGRAPHY
TOS	TOP OF SLAB; STEEL
TOW	TOP OF WALL
TS	TUBE STEEL
TSTAT	THERMOSTAT
TYP	TYPICAL
UNO	UNLESS OTHERWISE NOTED
VB	VINYL BASE
VEN	VENEER
VERT	VERTICAL
VEST	VESTIBULE
VG	VERTICAL GRAIN
VIF	VERIFY IN FIELD
VT	VINYLT TILE
W	WEST
W/	WITH
W/O	WITHOUT
WC	WATER CLOSET
WD	WOOD
WDW	WINDOW
WF	WIDE FLANGE
WF BM	WIDE FLANGE BEAM
WG	WIRED GLASS
WH	WATER HEATER
WL	WATER LINE
WLD	WELDED
WP	WATERPROOF
WPM	WATERPROOF MEMBRANE
WR	WATER RESISTANT
WSCT	WAINSCOT
WSG	WIRE SAFETY GLASS
WTR	WATER
WWF	WELDED WIRE FABRIC
WWM	WELDED WIRE MESH
WT	WEIGHT

SYMBOLS LEGEND



MATERIALS LEGEND



ZONING / BUILDING CODE SUMMARY

PROJECT ADDRESS:
75 ALTA ROAD
STANFORD CA 94305

ASSESSOR'S PARCEL NUMBER:
142-12-002

APPLICABLE CODES AND STANDARDS:
(WITH SANTA CLARA COUNTY AMENDMENTS WHERE APPLICABLE)

2016 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE
2016 CALIFORNIA BUILDING CODE (CBC)
2016 CALIFORNIA ELECTRICAL CODE
2006 ICC ELECTRICAL CODE - ADMINISTRATIVE PROVISIONS
2016 CALIFORNIA MECHANICAL CODE (CMC)
2016 CALIFORNIA PLUMBING CODE (CPC)
2016 CALIFORNIA ENERGY CODE (TITLE 24)
2016 CALIFORNIA HISTORICAL BUILDING CODE (CHBC)
2016 CALIFORNIA FIRE CODE (CFC)
2016 NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 13 AND 72
2016 CALIFORNIA GREEN BUILDING STANDARDS CODE
2016 CALIFORNIA REFERENCE STANDARDS CODE

1997 UNIFORM CODE FOR THE ABATEMENT OF DANGEROUS BUILDINGS
2017 STANFORD SEISMIC ENGINEERING GUIDELINES
2016 STANFORD UNIVERSITY FACILITY DESIGN & CONSTRUCTION STANDARDS (FDG)

AUTHORITY HAVING JURISDICTION:
SANTA CLARA COUNTY
DEPARTMENT OF PLANNING AND DEVELOPMENT
KIRK GIRARD, DIRECTOR
T: (408) 299-5770
F: (408) 288-9198

70 WEST HEDDING STREET, 7TH FLOOR
SAN JOSE, CA 95110

ELECTRONIC MAIL:
kirk.girard@pln.sccgov.org

LOT SIZE:
12.04 ACRES

LAND USE DESIGNATION:
A1-20S-SR

CONSTRUCTION TYPE:
VB

PROJECT DESCRIPTION:
NEW 1,689 SF COLLABORATION BUILDING ADJACENT TO BUILDING 200 AT THE CENTER FOR ADVANCED STUDY IN THE BEHAVIORAL SCIENCES (CASBS). DEMOLITION OF 1721 GUP SF OF EXISTING RESTROOM AND STORAGE SPACE. LANDSCAPING INCLUDING UPGRADES TO ACCESSIBILITY, PLAZA SPACE, PARKING AND PLANTING AREAS.

HEIGHT:
ALLOWED: TWO STORIES BUT NOT TO EXCEED 35' IN HEIGHT
PROPOSED: 22'-0"

YARD SETBACKS:
SIDE: 15'
REAR: 25'

ENERGY CODE COMPLIANCE:
2016 CALIFORNIA ENERGY CODE (CLIMATE ZONE 3)

FIXED U- 0.36
OPERABLE U- 0.46
CURTAINWALL U- 0.41
GLAZED DOORS U - 0.45
DOOR U-FACTOR: 0.70

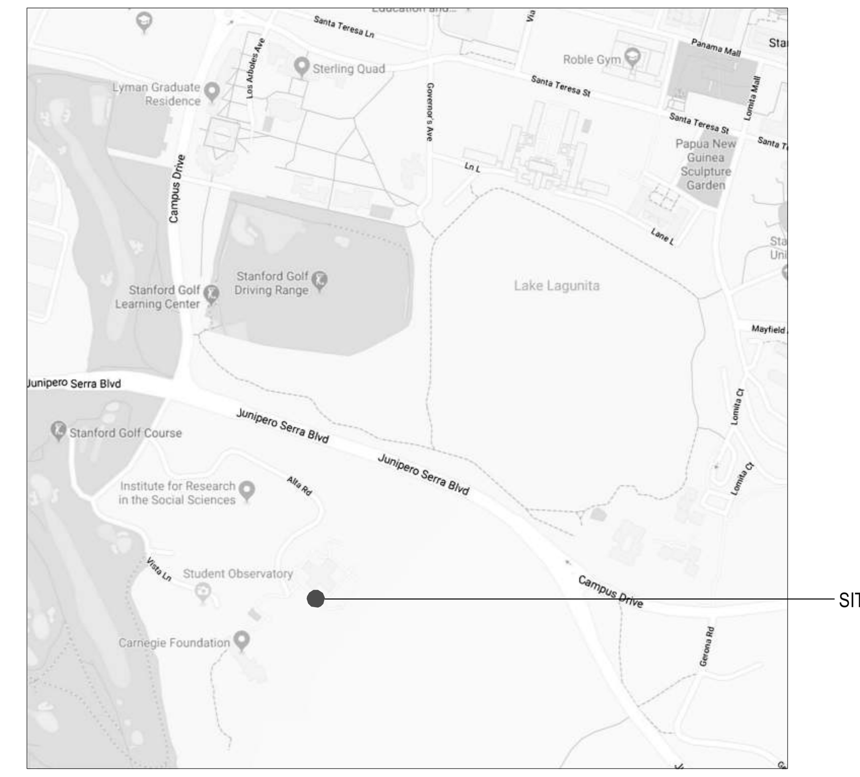
CEILING: R-30
WALL ABOVE GRADE: R-13
WALL BELOW GRADE: R-5
SLAB ON GRADE: R- 5

OCCUPANCY

RM	NAME	AREA	OCC.	FUNCTION	FACTOR	LOAD
010	ROOM A LARGE	642 SF	B	ASSEMBLY UNCONCENTRATED	15 SF	43
011	STORAGE	54 SF	B	ACCESSORY STORAGE	300 SF	1
020	ROOM C SMALL	126 SF	B	ASSEMBLY UNCONCENTRATED	15 SF	9
021	A / V	17 SF	B	ACCESSORY STORAGE	300 SF	1
030	ROOM B MEDIUM	313 SF	B	ASSEMBLY UNCONCENTRATED	15 SF	21
040	HALL	64 SF	B	CIRCULATION	0 SF	
050	QUIET ROOM	43 SF	B	ASSEMBLY UNCONCENTRATED	15 SF	3
060	IT OFFICE	171 SF	B	BUSINESS	100 SF	2
070	ADA W.C. / SHOWER	101 SF	B	RESTROOM	0 SF	
		1532 SF				80

STREET MAP

NOT TO SCALE



VICINITY MAP

STANFORD CAMPUS - NOT TO SCALE

LOCATION MAP

BAY AREA - NOT TO SCALE

GENERAL NOTES

1. CODES: ALL WORK SHALL CONFORM TO APPLICABLE LAND USE AND BUILDING CODES AS AMENDED BY AUTHORITIES HAVING JURISDICTION.
2. DO NOT SCALE DIMENSIONS FROM DRAWINGS. USE CALCULATED DIMENSIONS ONLY. NOTIFY THE ARCHITECT IMMEDIATELY IF ANY CONFLICTS EXIST.
3. CONTRACTOR SHALL VERIFY ALL CONDITIONS PRIOR TO INITIATING THE WORK. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
4. VERIFY ALL ROUGH-IN DIMENSIONS FOR EQUIPMENT. PROVIDE ALL BUCK-OUT, BLOCKING, BACKING, AND JACKS REQUIRED FOR INSTALLATIONS.
5. DIMENSIONS ARE TO EXTERIOR FACE OF CONCRETE / WOOD FRAMING UNLESS OTHERWISE NOTED.
6. EXTERIOR WALL FRAMING 2x6 WOOD STUDS UNLESS OTHERWISE NOTED.
7. INTERIOR WALL FRAMING 2x4 WOOD STUDS UNLESS OTHERWISE NOTED.
8. ALL WORK IS NEW UNLESS INDICATED AS EXISTING (E).

PROJECT DIRECTORY

SITE ADDRESS:
75 ALTA ROAD
STANFORD CA 94305

OWNER:
STANFORD UNIVERSITY
DEPARTMENT OF PROJECT MANAGEMENT
PHONE: (650) 736-7965
CONTACT: PAUL FORTI
PFORTI@STANFORD.EDU

ARCHITECT:
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159 S. JACKSON ST, SUITE 600
SEATTLE, WA 98104
T: 206.624.5670
F: 206.624.3730
PRINCIPAL ARCHITECT: TOM KUNDIG
CONTACT: NATHAN MESSMER
NATHANM@OLSONKUNDIG.COM

CONTRACTOR:
BLACH CONSTRUCTION
244 BLACH PL, SUITE 100
SAN JOSE, CA 95131
T: 408.244.7100
F: 408.244.2220
CONTACT: KEVIN GERICKE
KEVIN.GERICKE@BLACH.COM

CIVIL ENGINEER:
BKF ENGINEERS
4670 WILLOW RD, SUITE 250
T: (925) 396-7700
PLEASANTON, CA 94588
CONTACT: SANDOR HITES
SANDORHITES@BKF.COM

LANDSCAPE ARCHITECT:
SWA
2200 BRIDGEWAY BLVD
T: (415) 332-5100
SAUSALITO CA 94965
CONTACT: BILL HYNES
WHYNES@SWAGROUP.COM

STRUCTURAL ENGINEER:
KPFF CONSULTING ENGINEERS
1601 FIFTH AVE, SUITE 1600
SEATTLE WA 98101
T: (206) 622-5822
CONTACT: AMIE SULLIVAN
AMIE.SULLIVAN@KPFF.COM

LIGHTING:
NITEO LIGHTING
1932 1ST AVENUE, SUITE 174
SEATTLE, WA 98101
T:(206) 456-4554
CONTACT: JASON EDLING
JASON@NITEOLIGHTING.COM

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3904 REGISTERED ARCHITECT
THOMAS WALTER KUNDIG
STATE OF WASHINGTON

principal architect TK
project manager DM
drawn by EH, NM
checked by
job no. 16006
date 03/12/2019

revisions:

no.	date		by
1	06/03/2020	ASX REV. 1	

NOT FOR CONSTRUCTION

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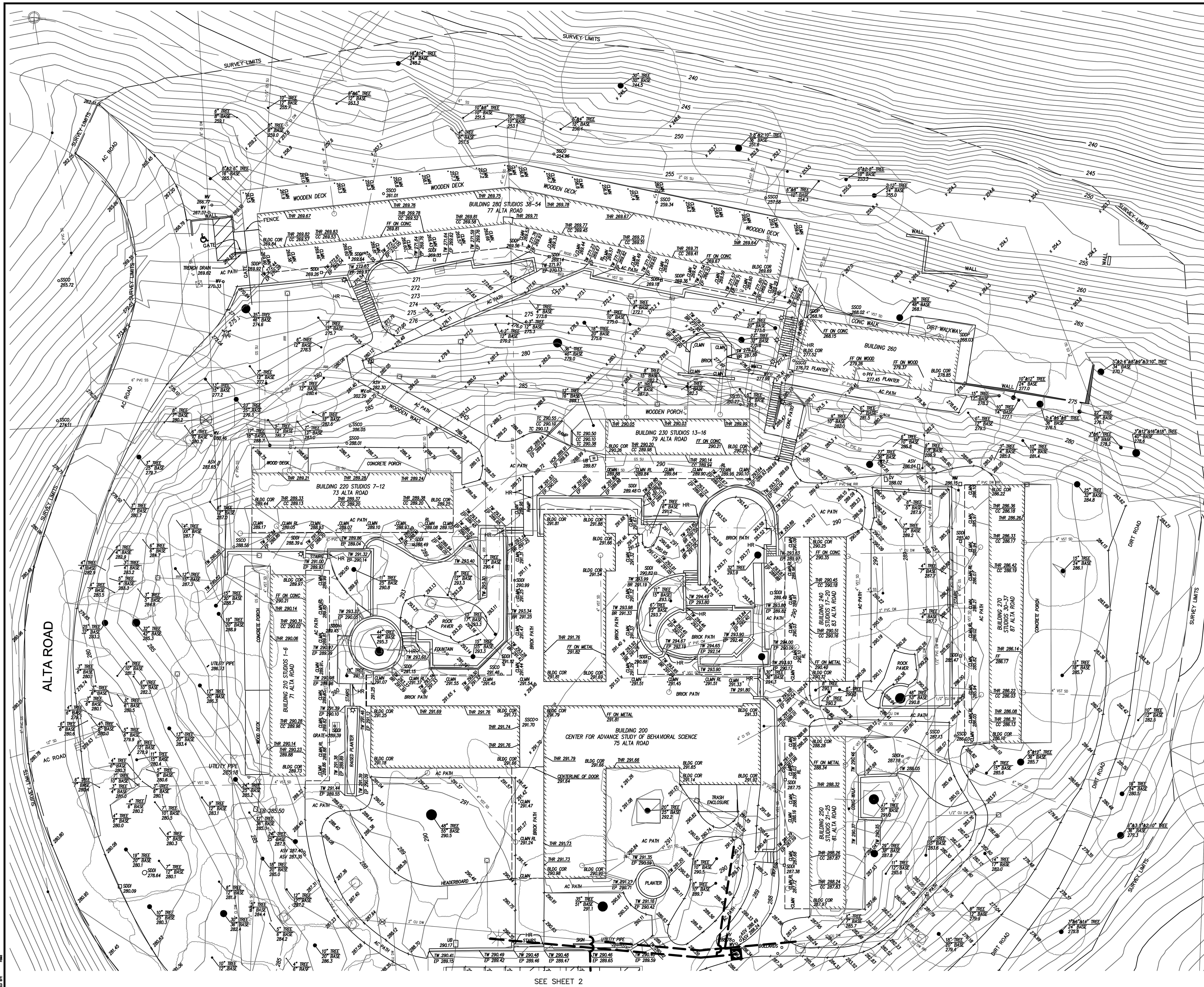
03/12/2019

GENERAL INFORMATION

A0.00



BENCHMARK

FOUND 2–1/2" BRASS DISK, WITH PUNCH MARK, STAMPED "S–107, LS 5797" IN MONUMENT WELL ON EASTERLY NOSE OF TRAFFIC ISLAND IN JUNIPERO SERRA BOULEVARD EAST OF INTERSECTION WITH CAMPUS DRIVE WEST.

ELEVATION=155.25' (NGVD 29)

BASIS OF BEARINGS

COORDINATES, BEARINGS, AND DISTANCES SHOWN ON THIS SURVEY ARE BASED ON THE NORTH AMERICAN DATUM OF 1983 (NAD83) CCS83, CALIFORNIA ZONE 3, BY HOLDING THE NAD 83 STATE PLANE COORDINATE VALUES OF CONTROL POINTS "S–107", "S–120", AND "S–129" AS SHOWN AND DESCRIBED IN THAT CERTAIN RECORD OF SURVEY FOR THE STANFORD MASTER SURVEY CONTROL NETWORK, FILED APRIL 10, 2002 IN BOOK 747 OF MAPS AT PAGES 40 THROUGH 49 INCLUSIVE, RECORDS OF SANTA CLARA COUNTY, WAS TAKEN AS THE BASIS OF BEARINGS FOR THIS SURVEY.

NOTE

DATE OF FIELD TOPOGRAPHIC SURVEY WAS MAY 2016.

ALL DISTANCES AND DIMENSIONS ARE IN FEET AND DECIMALS THEREOF.

NO BOUNDARY INFORMATION DEPICTED ON THIS SURVEY.

SURVEYOR'S STATEMENT

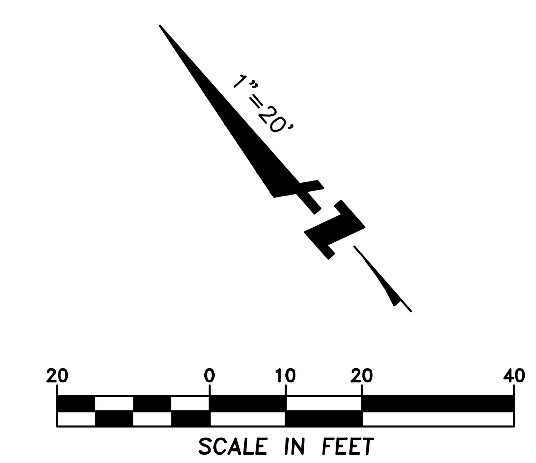
THIS TOPOGRAPHIC SURVEY WAS PREPARED BY ME OR UNDER MY DIRECTION.

DAVIS THRESH, P.L.S. NO. 6868

10 – 13 – 2016
DATED

LEGEND

AC	ASPHALT CONCRETE
ASV	ANTI–SIPHON VALVE
BR	BRICK
CLMN	COLUMN
COMM	COMMUNICATION
CONC	CONCRETE
EB	ELECTRIC BOX
EP	EDGE OF PAVEMENT
FL	FLOWLINE
GM	GAS METER
GV	GAS VALVE
HB	HOSE BIB
HCR	HANDICAP RAMP
HR	HANDRAIL
LG	LIP OF GUTTER
RL	RAIN LEADER
SSCO	SANITARY SEWER CLEANOUT
SDDI	STORM DRAIN DROP INLET
TC	TOP/FACE OF CURB
THR	THRESHOLD
TW	TOP OF WALL
UB	UTILITY BOX
UP	UTILITY POLE
WM	WATER METER
WV	WATER VALVE
HYD	FIRE HYDRANT
	AREA LIGHT



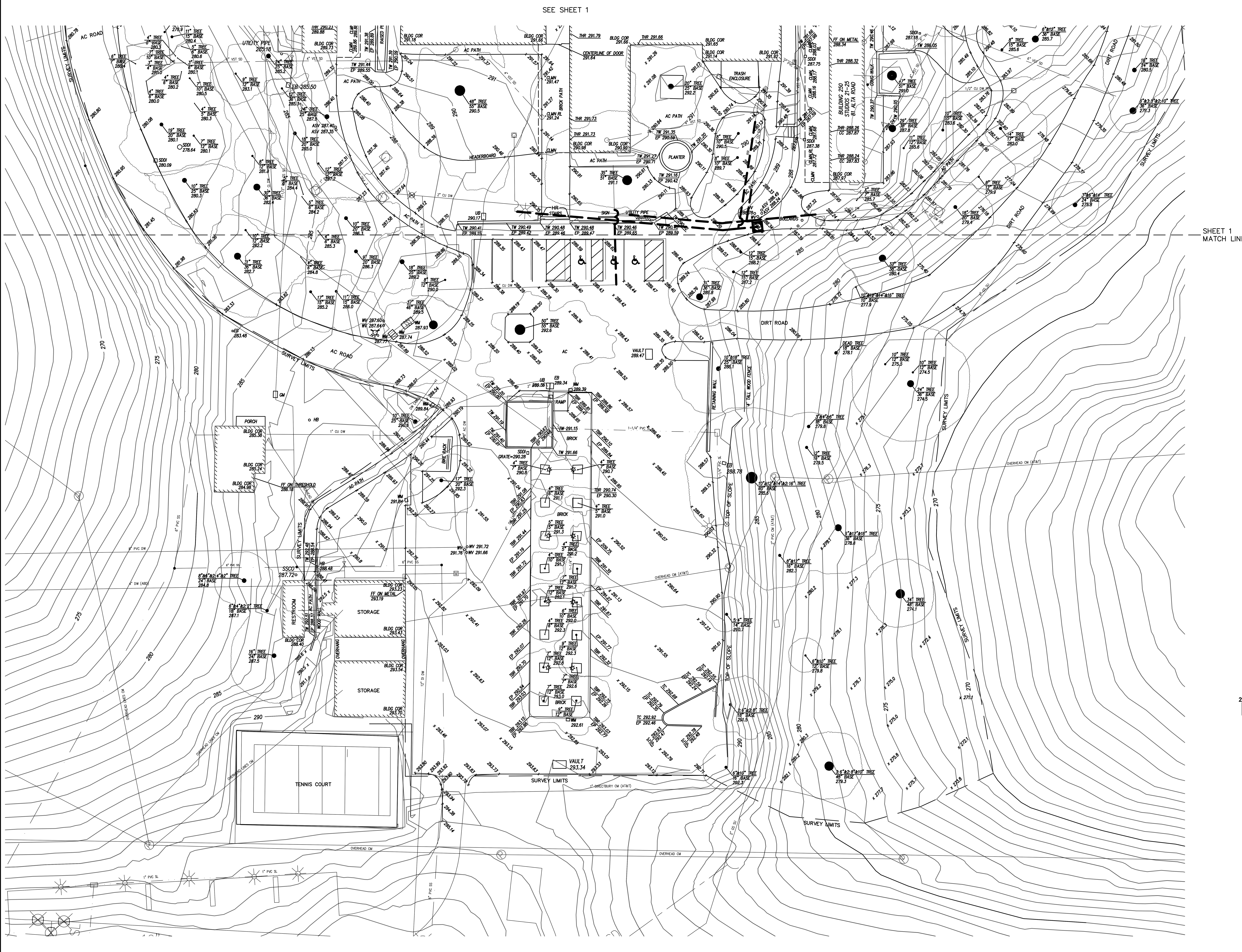
BKF
ENGINEERS / SURVEYORS / PLANNERS
1650 TECHNOLOGY DRIVE
SUITE 650
SAN JOSE, CA 95110
408-467-9100
408-467-9199 (FAX)

EXISTING CONDITIONS
STANFORD CASBS
75 ALTA ROAD
STANFORD SANTA CLARA COUNTY CALIFORNIA

No.	Revisions

Date: 10–13–2016
Scale: 1"= 20'
Design: PAN
Drawn: PAN
Approved: DRT
Job No: 20157162

Drawing Number:
C0.0
1 OF 2



LEGEND

AC	ASPHALT CONCRETE
ASV	ANTI-SIPHON VALVE
BR	BRICK
CLMN	COLUMN
COMM	COMMUNICATION
CONC	CONCRETE
EB	ELECTRIC BOX
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THR	THRESHOLD
TW	TOP OF WALL
UB	UTILITY BOX
UP	UTILITY POLE
WM	WATER METER
WV	WATER VALVE
	FIRE HYDRANT
	AREA LIGHT

1" = 20'

20 0 10 20 40
SCALE IN FEET

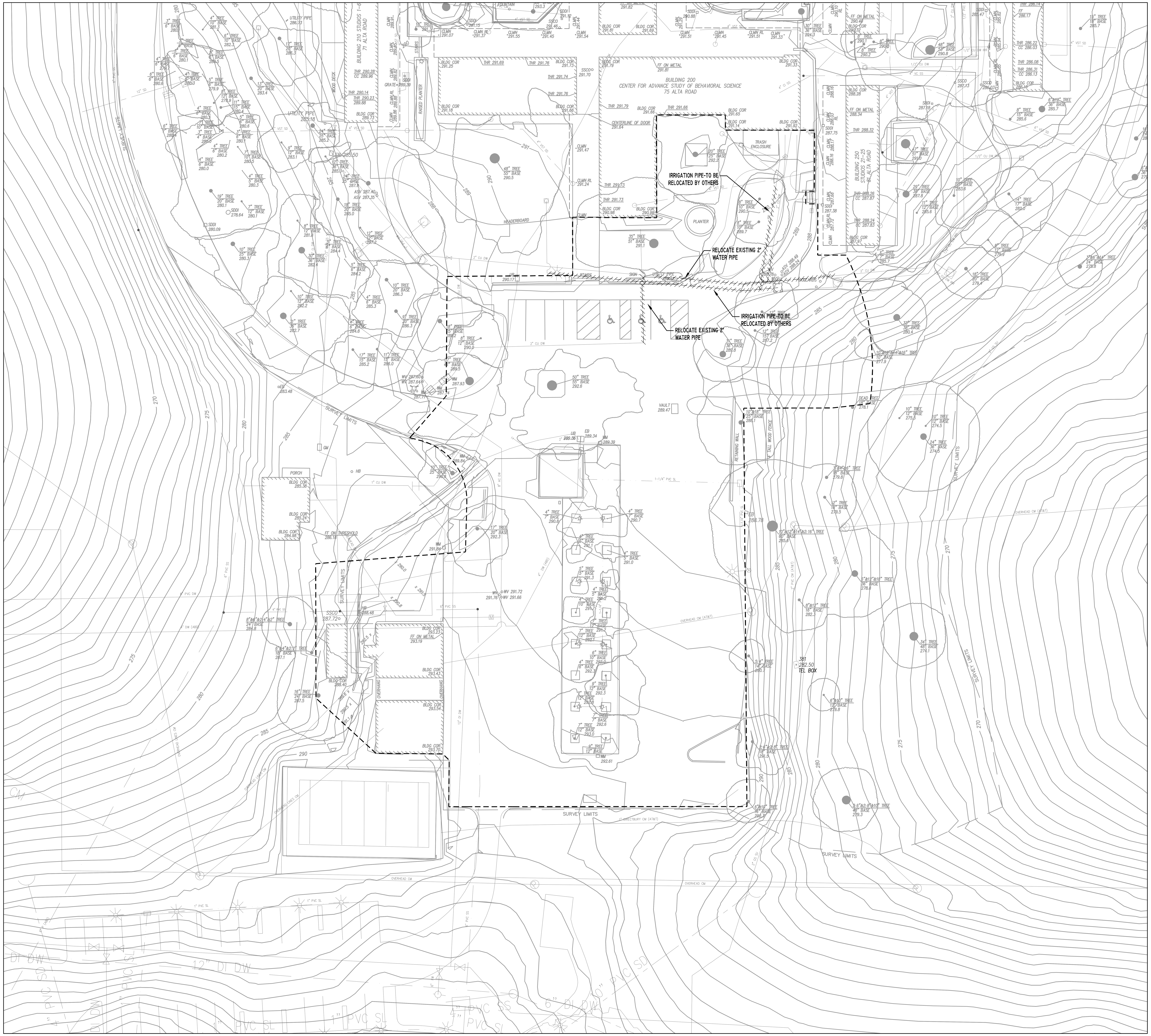
BKF
ENGINEERS / SURVEYORS / PLANNERS
1650 TECHNOLOGY DRIVE
SUITE 650
SAN JOSE, CA 95110
408-467-9100
408-467-9199 (FAX)

EXISTING CONDITIONS
STANFORD CASBS
75 ALTA ROAD
STANFORD SANTA CLARA COUNTY CALIFORNIA

No.	Revisions

Date: 10-13-2016
Scale: 1" = 20'
Design: PAN
Drawn: PAN
Approved: DTS
Job No: 20157162

Drawing Number:
C0.1
2 OF 2



LEGEND

DEMOLISH EXISTING UTILITY
EXISTING UTILITY TO REMAIN

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

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project manager SH
drawn by SR
Author
checked by SH
job no. 16006
date 05/01/2019

revisions:

no. date by

NOT FOR CONSTRUCTION

ASX SUBMITTAL

03/12/2019

SITE UTILITY
DEMOLITION PLAN

C1.00

LEGEND

SS	PROPOSED STORM DRAIN LINE
SD — SD	PROPOSED STORM DRAIN LINE
DW	PROPOSED DOMESTIC WATER LINE
FW	PROPOSED FIRE WATER LINE
WV	PROPOSED WATER VALVE
BFP	PROPOSED BACKFLOW PREVENTER
M	PROPOSED SUB-METER
FH	PROPOSED FIRE HYDRANT

ABBREVIATIONS

BFP	BACKFLOW PREVENTER
DW	DOMESTIC WATER
FW	FIRE WATER
WV	WATER VALVE

NOTES:

1. FIRE WATER PIPING SHALL BE PVC C900 PIPE WITH RESTRAINED JOINTS PER STANFORD SPECIFICATIONS
2. DOMESTIC WATER PIPE SHALL BE COPPER PER STANFORD SPECIFICATIONS.
3. STORM DRAIN AND SANITARY SEWER PIPING SHALL BE PVC SDR 26 PER STANFORD SPECIFICATIONS.

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

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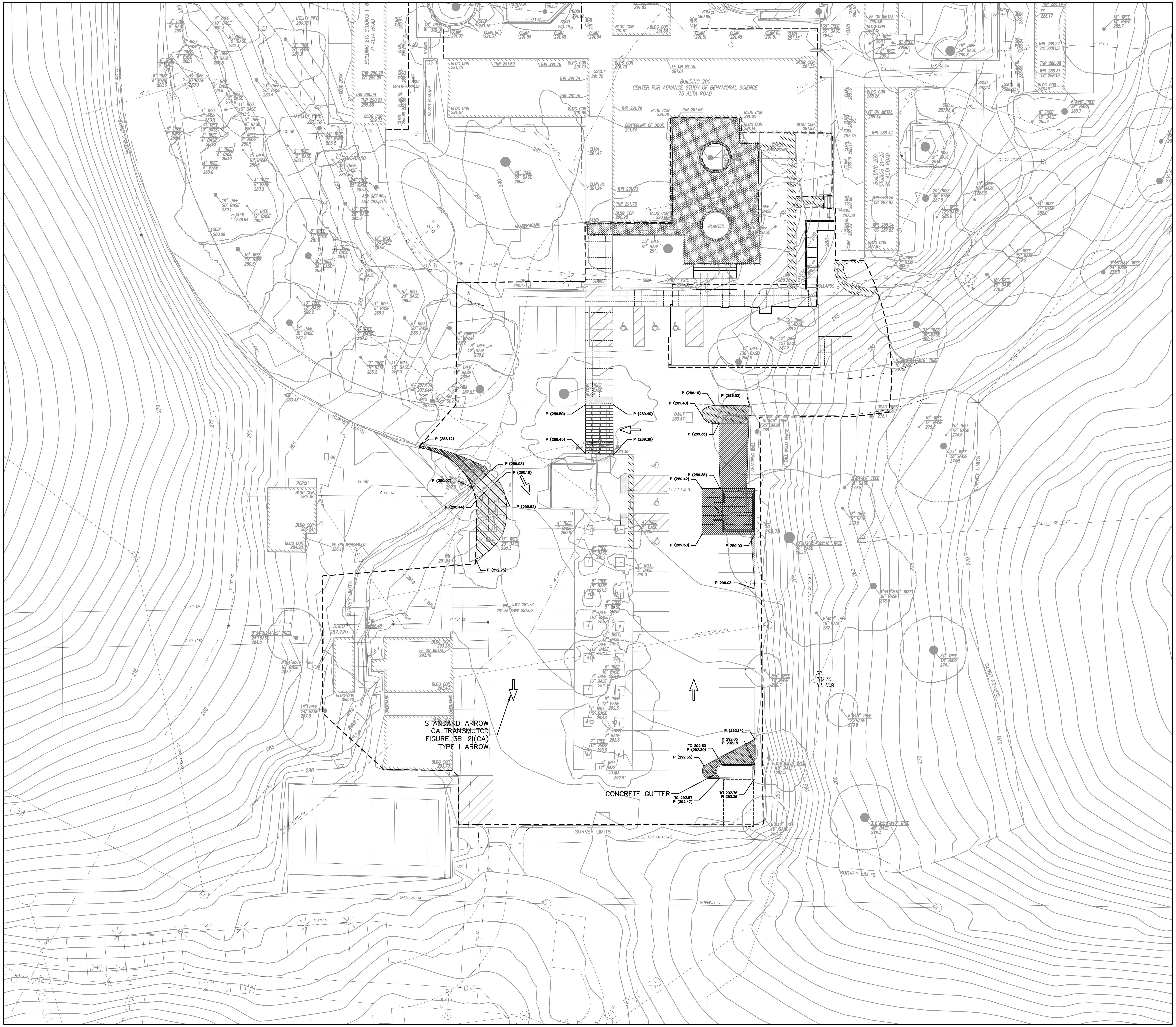
SITE UTILITY PLAN

C2.00



LEGEND

PROPOSED CONCRETE PAVEMENT

PROPOSED ASPHALT CONCRETE

SAWCUT LINE

HARDSCAPE IMPROVEMENT NOTES

1. PROPOSED CONCRETE CURB AND GUTTER
2. PROPOSED ASPHALT CONCRETE PAVEMENT
3. PROPOSED SAWCUT LINE

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

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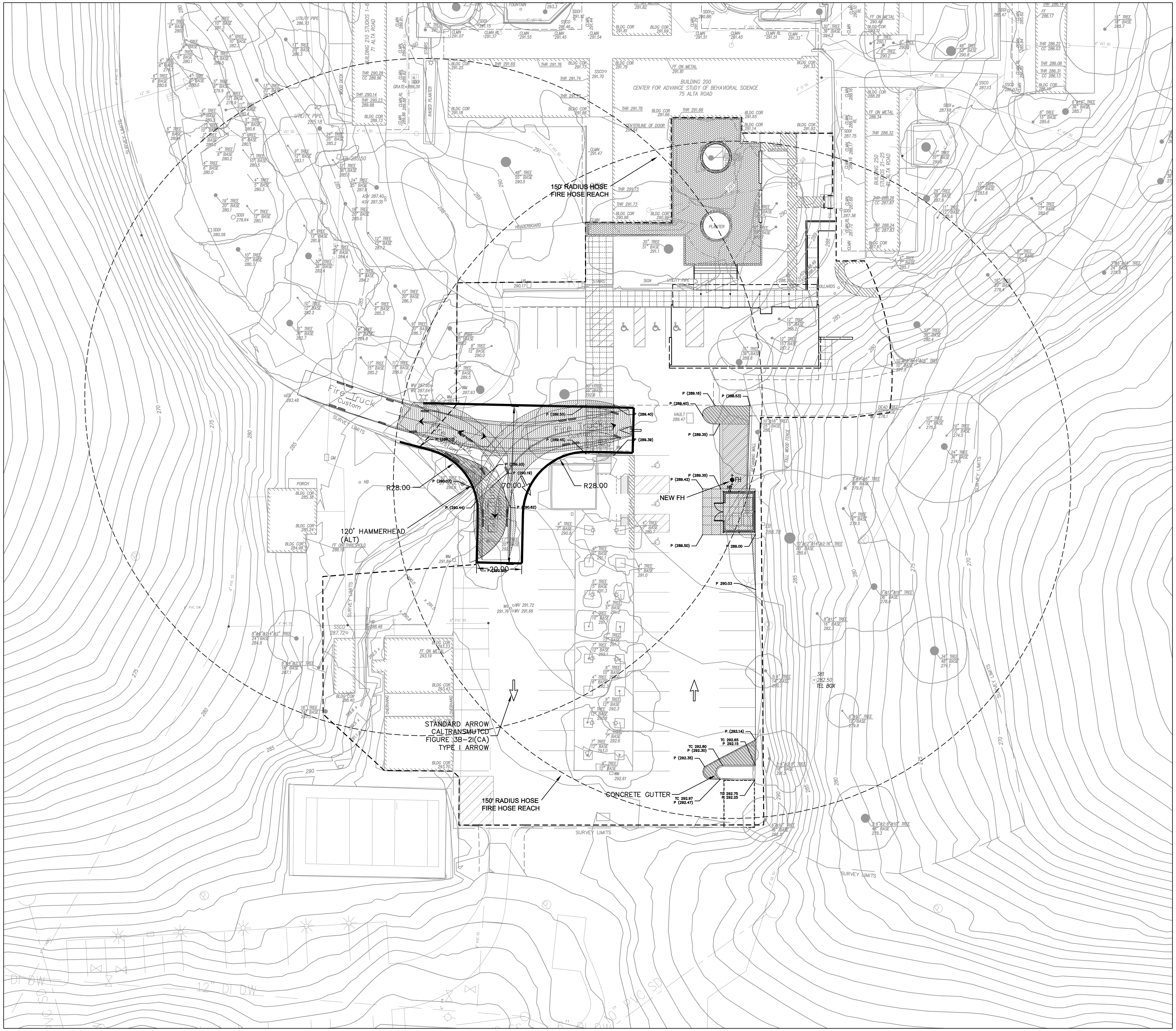
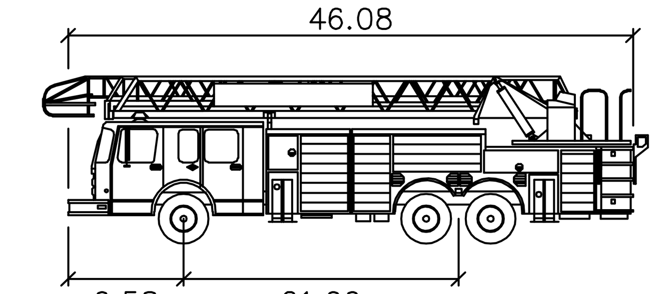
SITE GRADING PLAN

C3.00





Fire Truck

	feet
Width	: 11.50
Track	: 11.50
Lock to Lock Time	: 3.0
Steering Angle	: 40.0

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

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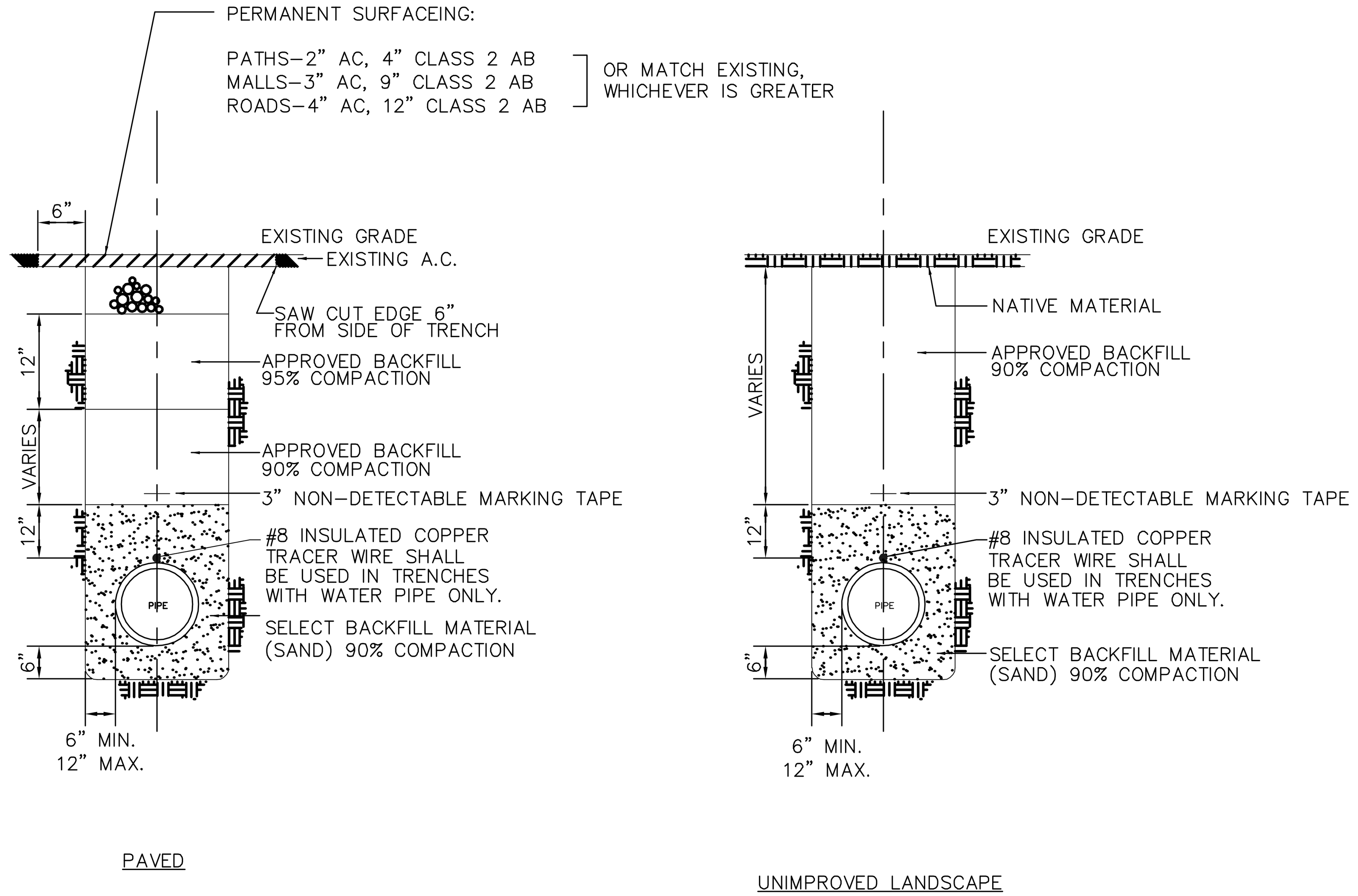
SITE FIRE ACCESS PLAN

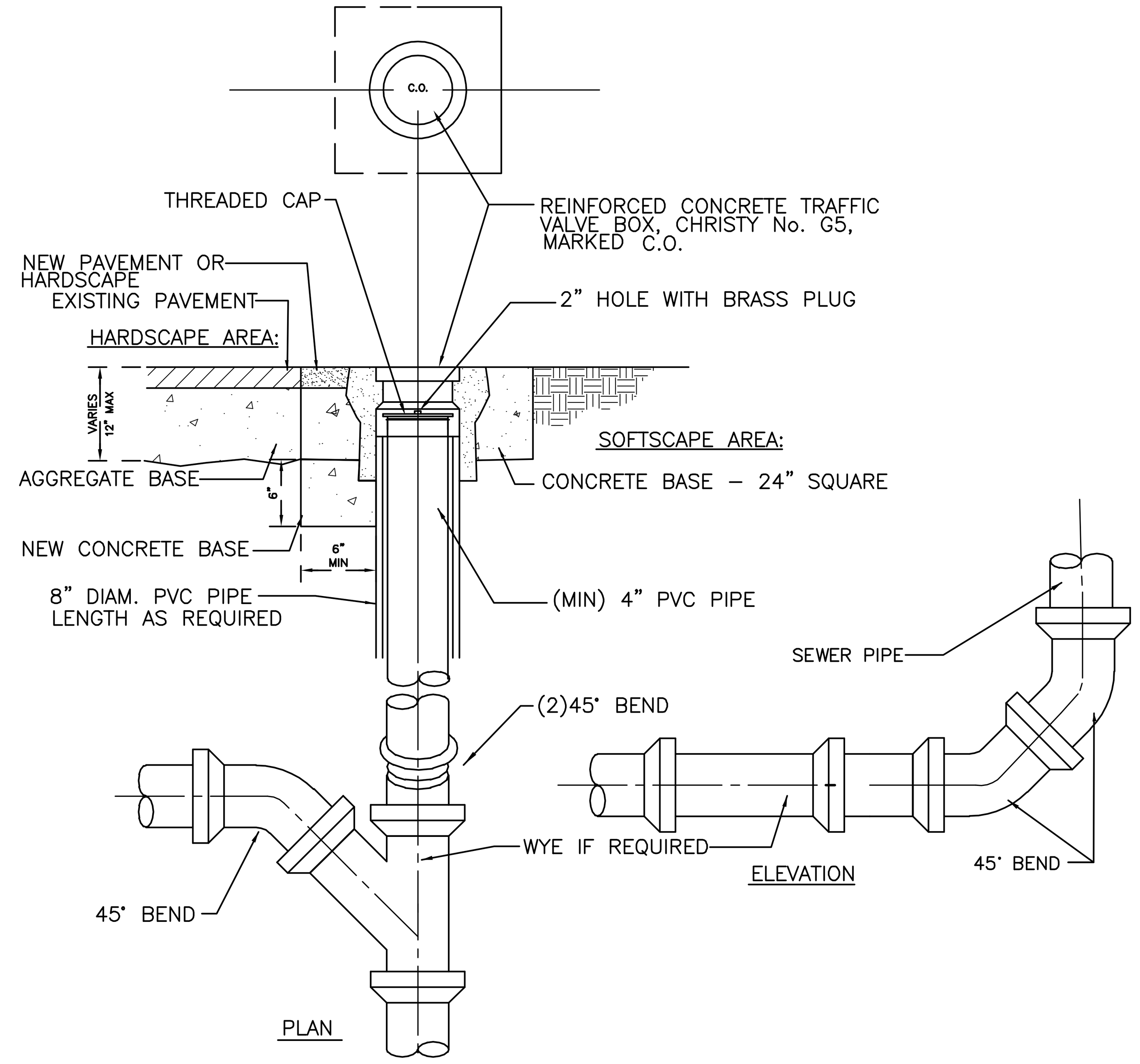
C4.00



NOTE:
1. SHORING TO BE PER CAL/OSHA CONSTRUCTION SAFETY ORDERS.
2. RESTORE ALL PAVEMENT MARKINGS IN-KIND WHERE REMOVED AS PART OF TRENCHING OPERATIONS

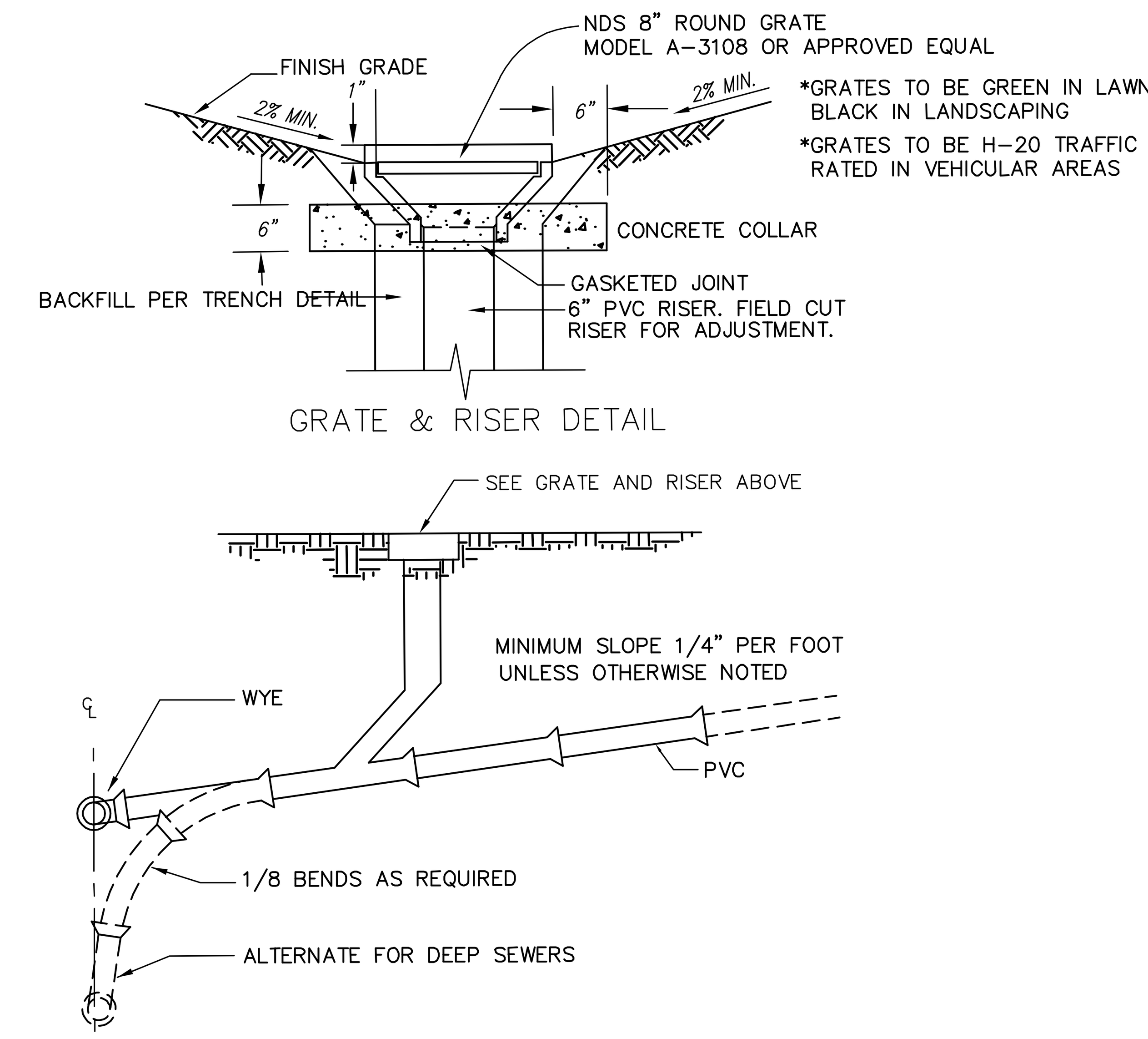
1 TRENCHING AND BACKFILLING

NOT TO SCALE



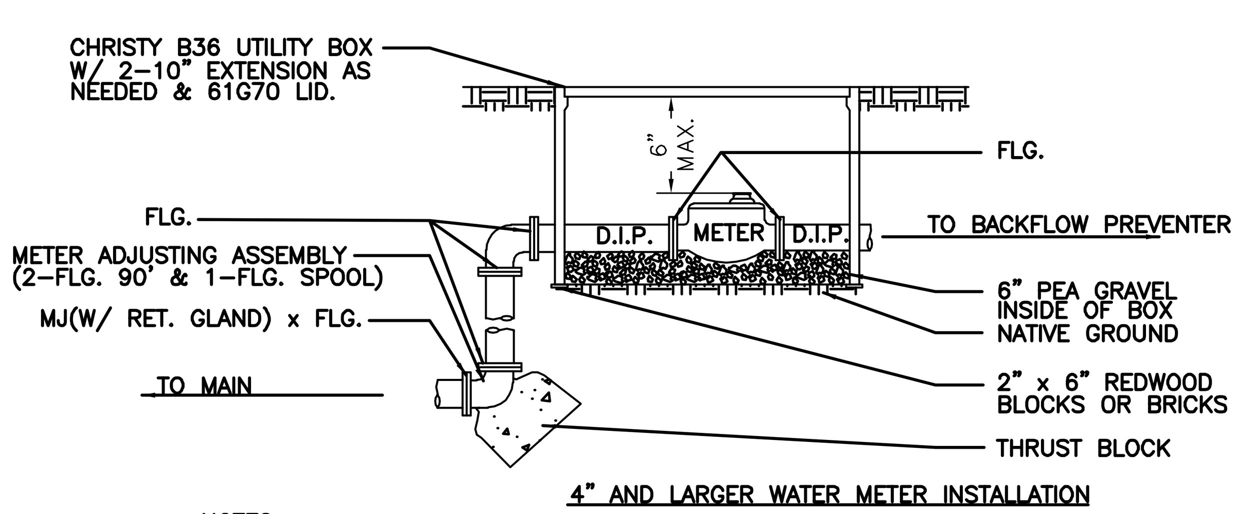
2 CLEANOUT

NOT TO SCALE



3 AREA DRAIN WITH WYE CONNECTION

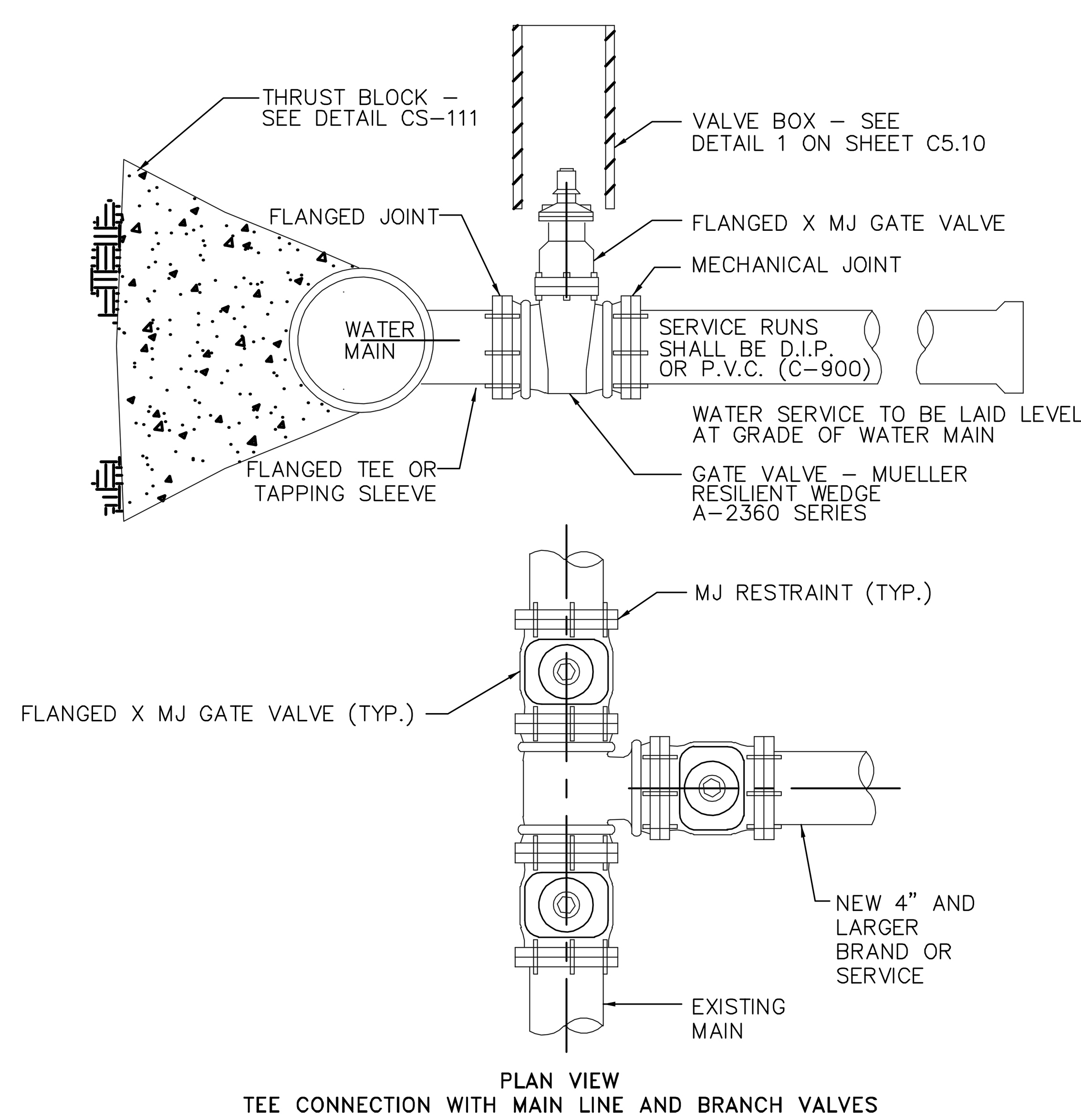
NOT TO SCALE



NOTES:
1. CHRISTY B36 METER BOX WITH EXTENSIONS AS REQUIRED. STEEL CHECKER PLATE LID WITH METER READING LID (61G70).
2. HERSEY METER COMPANY MODEL "MVR" STRAIGHT READING REGISTER IN CUBIC FEET.
3. 6" PEA GRAVEL IN BOTTOM OF BOX.
4. IF REDUCERS ARE REQUIRED, INSTALL OUTSIDE OF BOX.

4 WATER METER

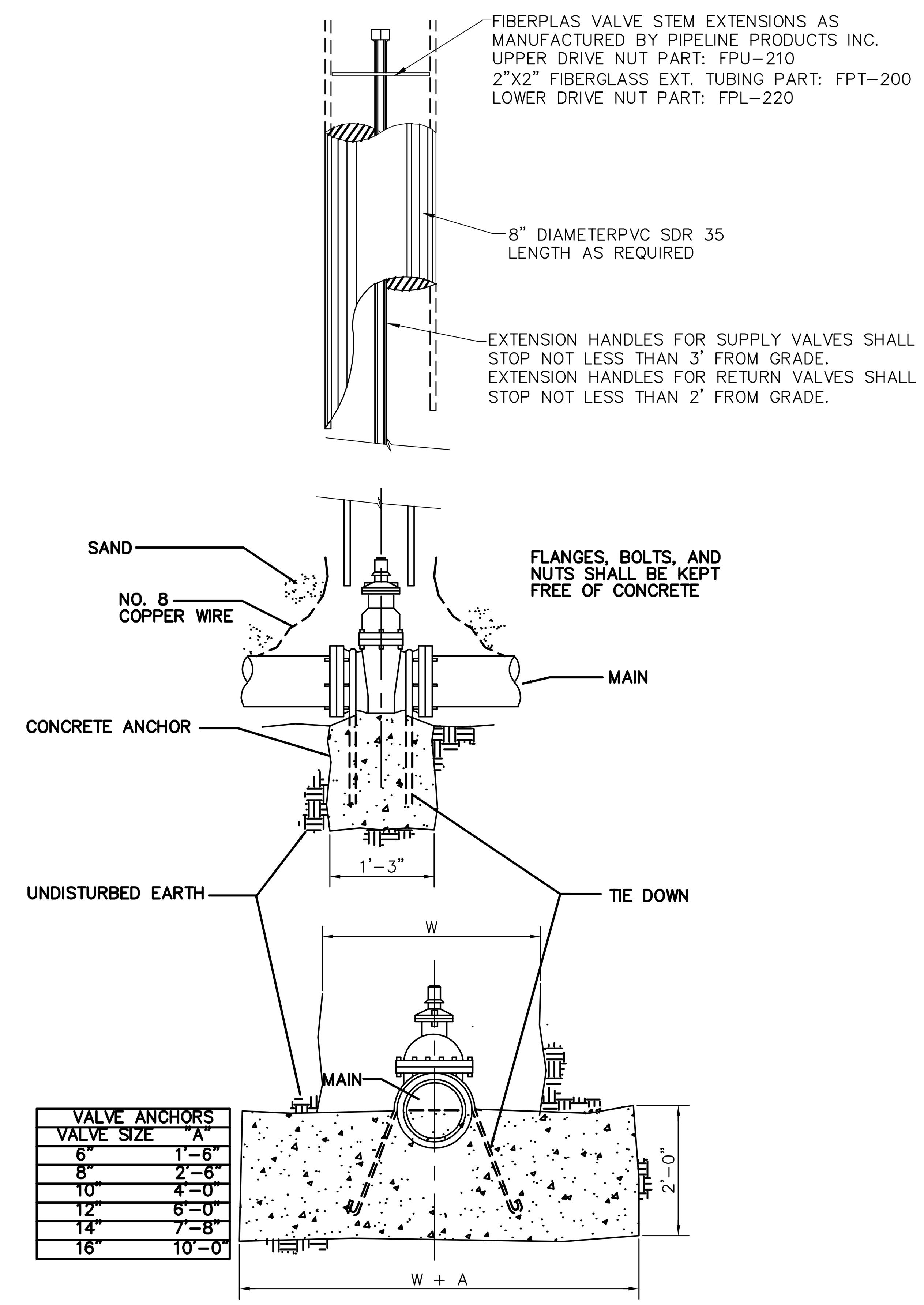
NOT TO SCALE



NOTE:
1. TAPPING SLEEVE CONNECTION SHALL BE REVIEWED AND APPROVED BY STANFORD UTILITIES
2. ADD CATHODE PROTECTION WHEN SHOWN ON DRAWINGS

5 WATER SERVICES 4" AND LARGER

NOT TO SCALE



VALVE ANCHORS	
VALVE SIZE	"A"
6"	1'–6"
8"	2'–6"
10"	4'–0"
12"	6'–0"
14"	7'–8"
16"	10'–0"

6 GATE VALVE

NOT TO SCALE

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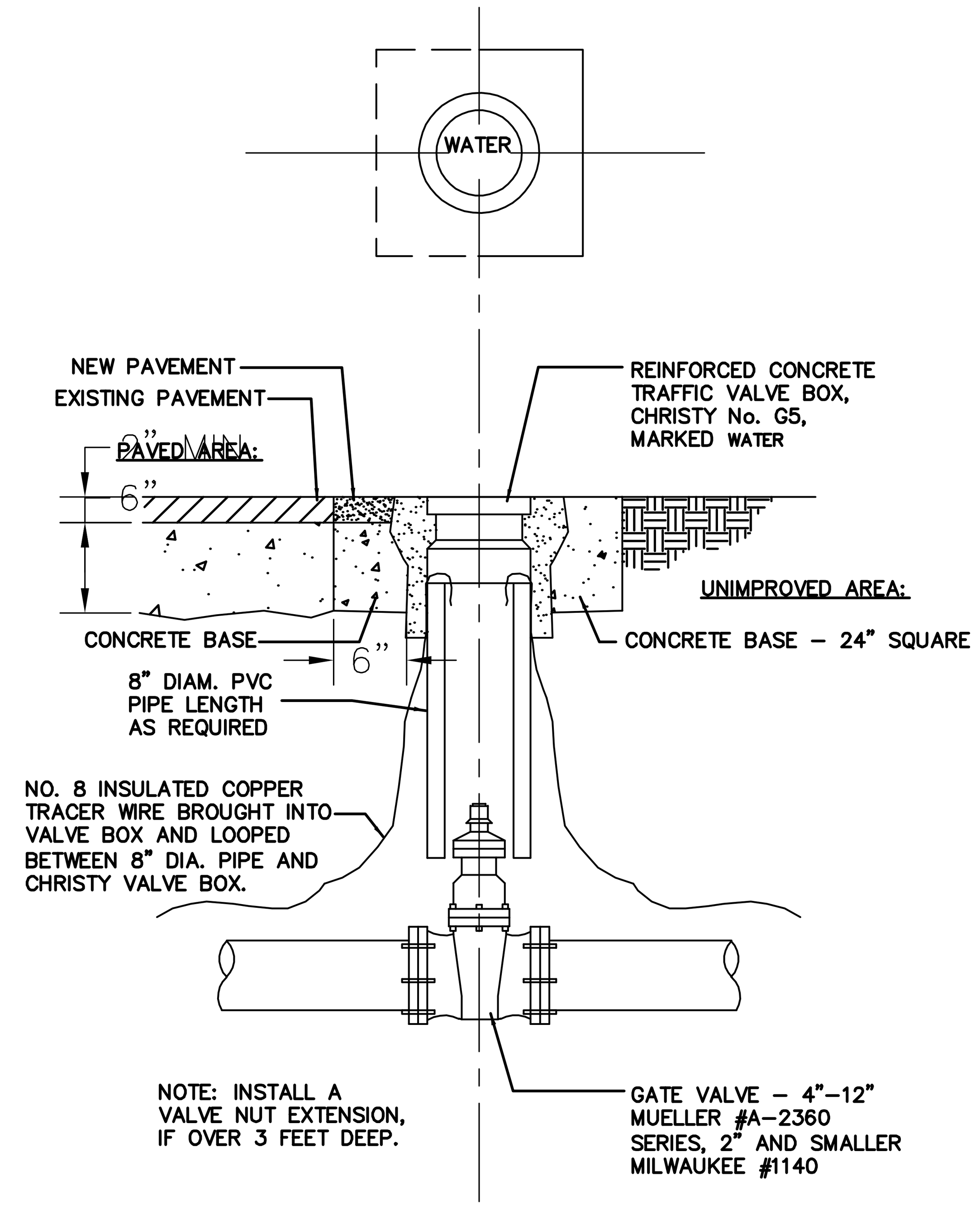
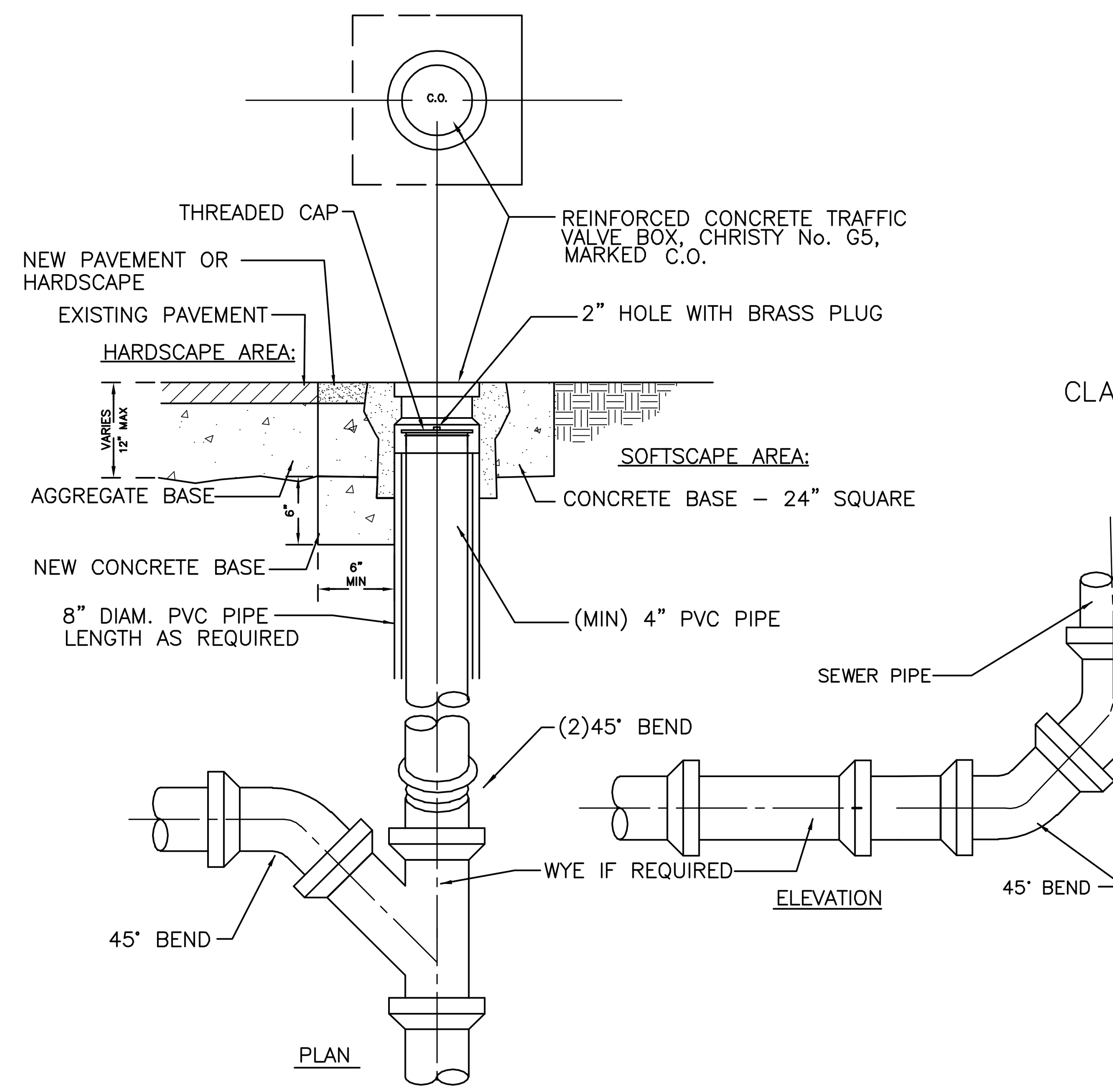
CIVIL DETAILS

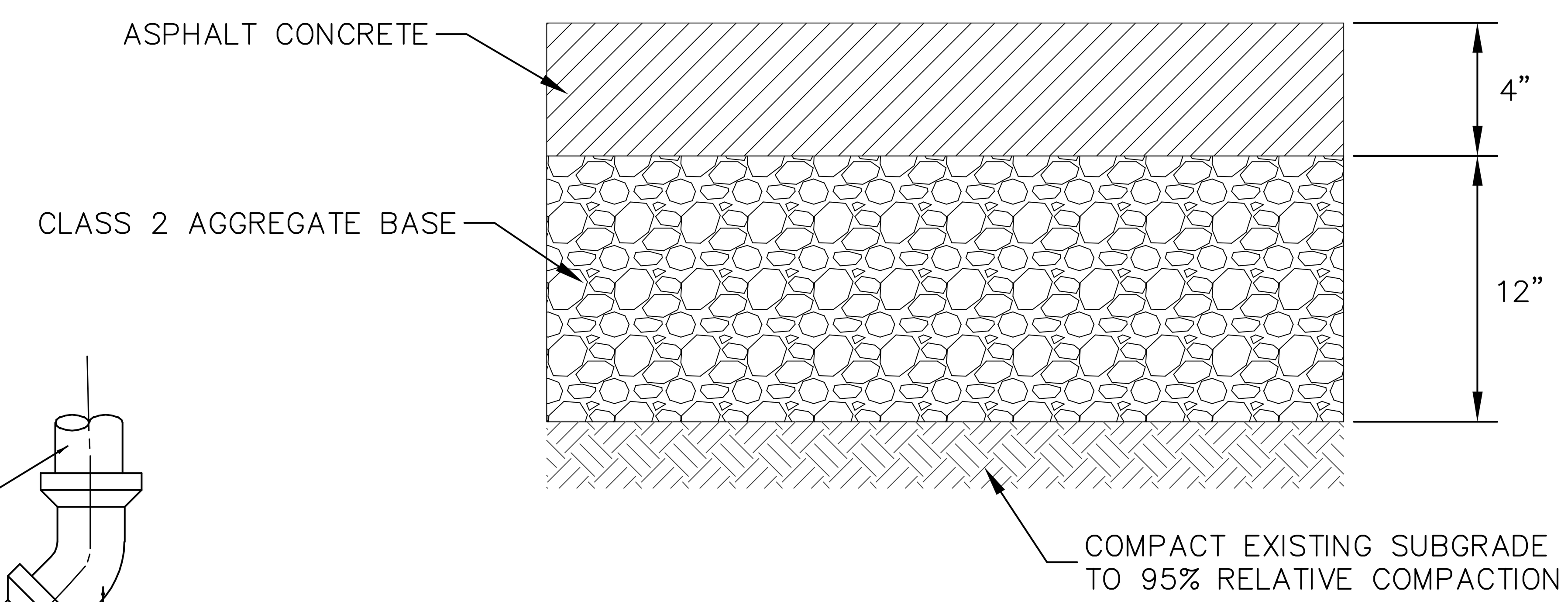
C5.00



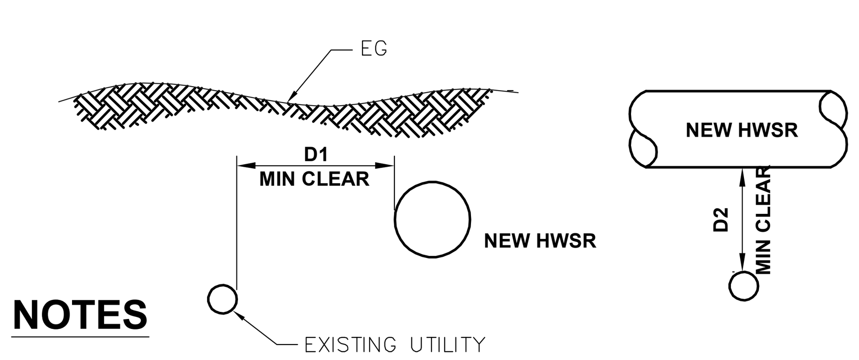
1 GATE VALVE BOX
NOT TO SCALE



2 STORM DRAIN CLEANOUT
NOT TO SCALE



3 ASPHALT CONCRETE PAVEMENT SECTION
NOT TO SCALE



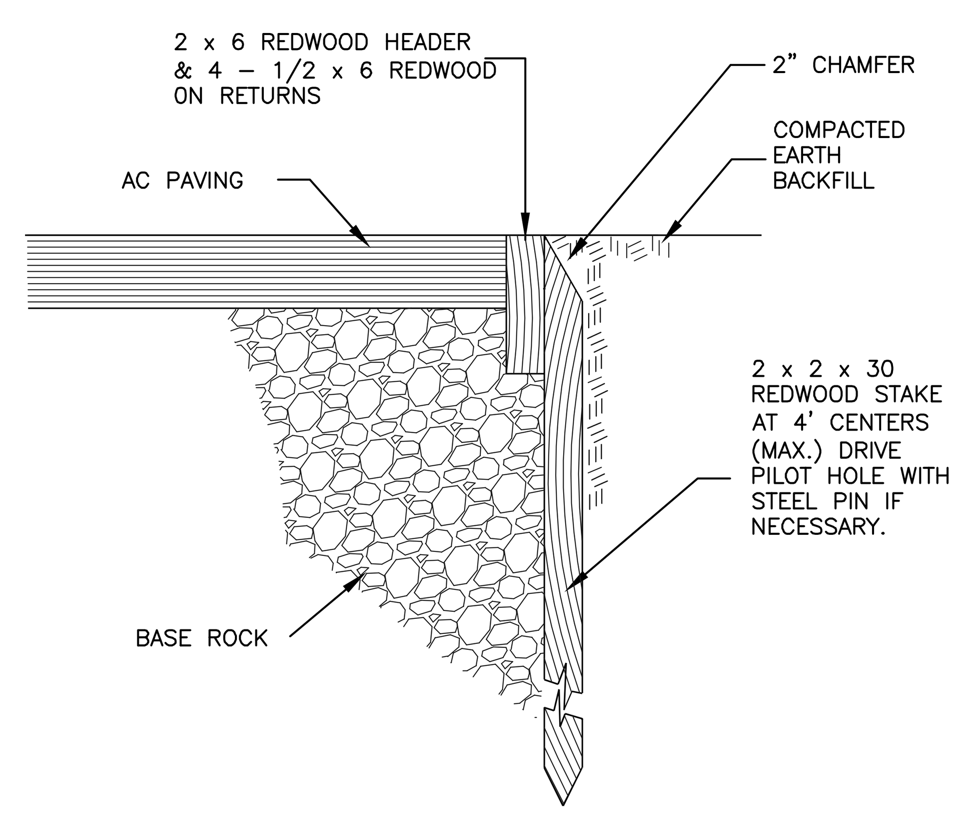
NOTES

1. PRIMARY ELECTRIC, GAS, TELEPHONE CABLE TV OR FIBER OPTIC LINES SHALL NOT CROSS ABOVE A WATER LINE WITHOUT WRITTEN APPROVAL FROM THE CITY'S WATER RESOURCE DEPARTMENT. IF THIS APPROVAL IS OBTAINED, A UTILITY LOCATOR STRIP AND ABC SLURRY ARE REQUIRED.
2. VERTICAL DISTANCES TO STEAM OR PE PIPE CROSSINGS MAY BE REDUCED PER DETAIL 7/C5.03 AS NEEDED.
3. REDUCTION OF PERPENDICULAR UTILITY CROSSING CLEARANCES MAY BE APPROVED DURING CONSTRUCTION PER STANFORD CONTRACT MANAGER. IN THESE CASES ADDITIONAL REQUIREMENTS MAY BE REQUIRED SUCH AS INSULATION PADS OR OTHER MEASURES.

TABLE 2

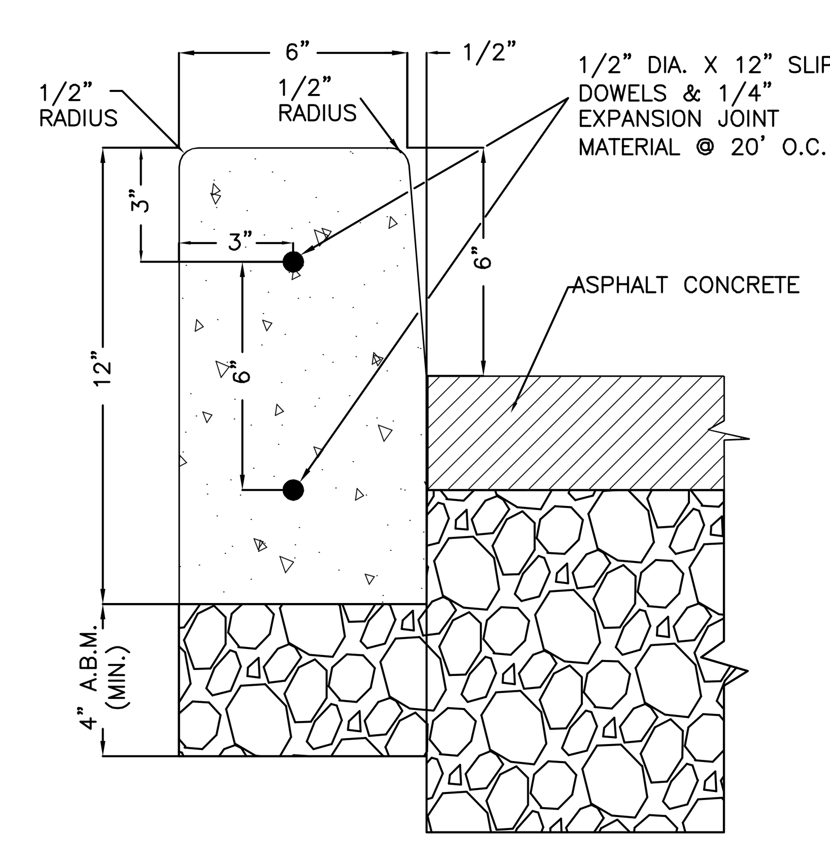
UTILITY	CLEARANCE TO HWSR	
	HORIZONTAL D1	VERTICAL D2
DOMESTIC WATER	24"	12"
CHILLED WATER	24"	12"
RECYCLED AND LAKE WATER	24"	12"
GAS	24"	24"
HIGH VOLTAGE	12"	12"
SANITARY AND STORM	12"	12"
STREET LIGHT	12"	12"
IRRIGATION	12"	6"
STEAM	36"	36"

4 - MINIMUM UTILITY SEPARATION REQUIREMENTS scale: NONE



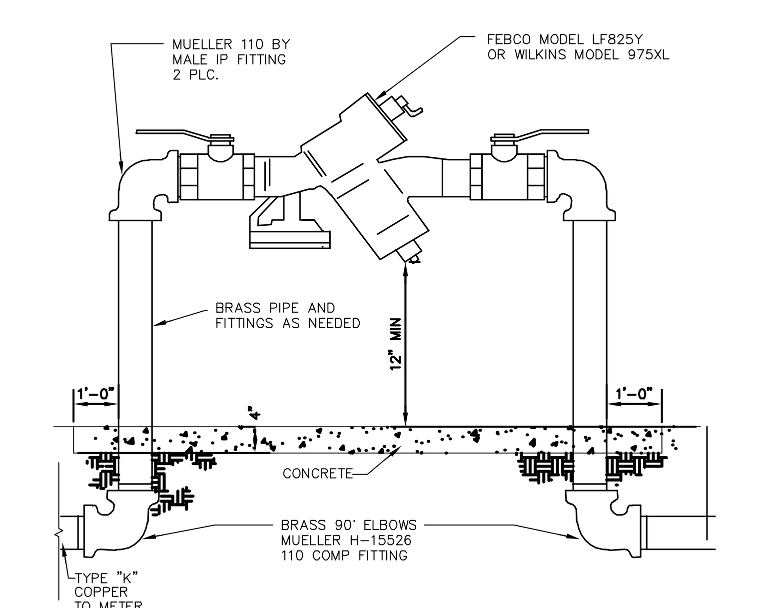
NOTES:
1. HEADERBOARD TO BE INSTALLED AFTER BASE ROCK IS IN PLACE. COMPACTED EARTH BACKFILL MUST BE IN PLACE, BEFORE PAVING IS LAID.
2. SPLICE HEADERBOARD ONLY AT STAKE
3. ALL LUMBER, EXCEPT STAKES TO BE REDWOOD.

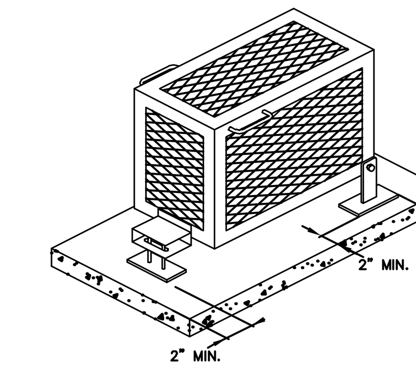
5 REDWOOD HEADER
NOT TO SCALE



6 CONCRETE CURB
NOT TO SCALE

FEBCO MODEL LF825Y OR WILKINS MODEL 975XL2 (LEAD FREE)
(3/4" – 2")





BACKFLOW PREVENTER ENCLOSURE DETAIL

ENCLOSURE DIMENSION TABLE

PART NO.	OUTSIDE DIM WxLxH	SIZE
BFE-2424	12" X 24" X 24"	3/4
BFE-3030	18" X 30" X 30"	1"-1 1/4"
BFE-4230	18" X 42" X 30"	1" 1/2"-2"

NOTES:
1. FURNISH AND INSTALL ALL-SPEC BACKFLOW PREVENTER ENCLOSURE PER ENCLOSURE DIMENSION TABLE.
2. LOCATION TO BE SUBMITTED FOR APPROVAL TO UNIVERSITY ARCHITECT/CAMPUS PLANNING.
3. BACKFLOW PREVENTER ENCLOSURE SHALL BE PAINTED WITH KELLY-MOORE/DTM, 5725 WROUGHT IRON BLACK.
4. FOR CONCRETE PAD COLOR USE DAVIS COLORS "TRUE TONE #807 WETTABLE CEMENT BLACK" MIX ONE-ONE POUND BOX TO QUARTER CU YARD OF CONCRETE.
5. BACKFLOW PREVENTER ENCLOSURE SHALL BE INSULATED (INSIDE) WITH 3/4" INSULATION BOARD AND SHALL BE PAINTED WITH KELLY-MOORE/DTM, 5725 WROUGHT IRON BLACK.

7 REDUCED PRESSURE BACKFLOW
3/4" – 2"
NOT TO SCALE

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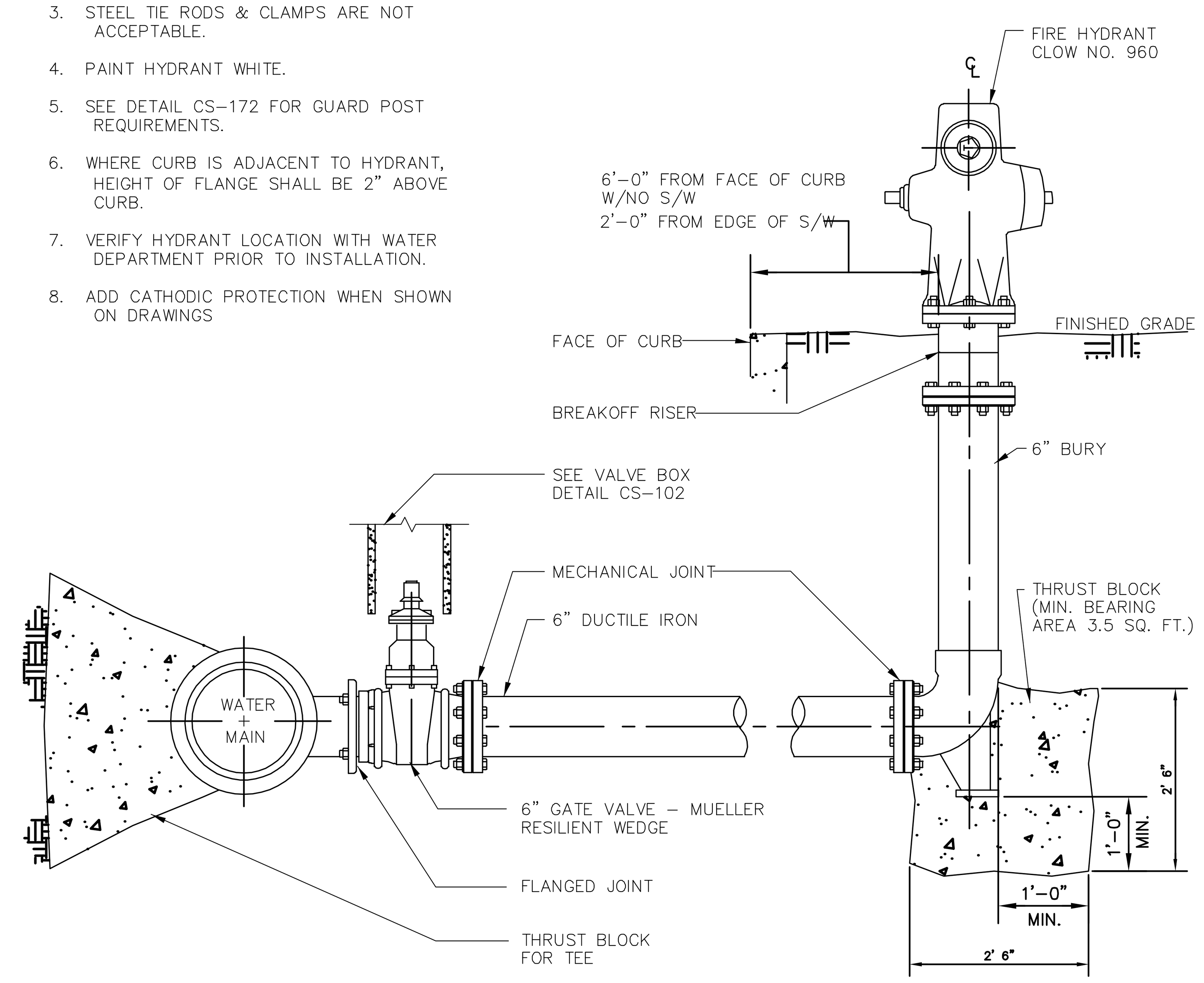
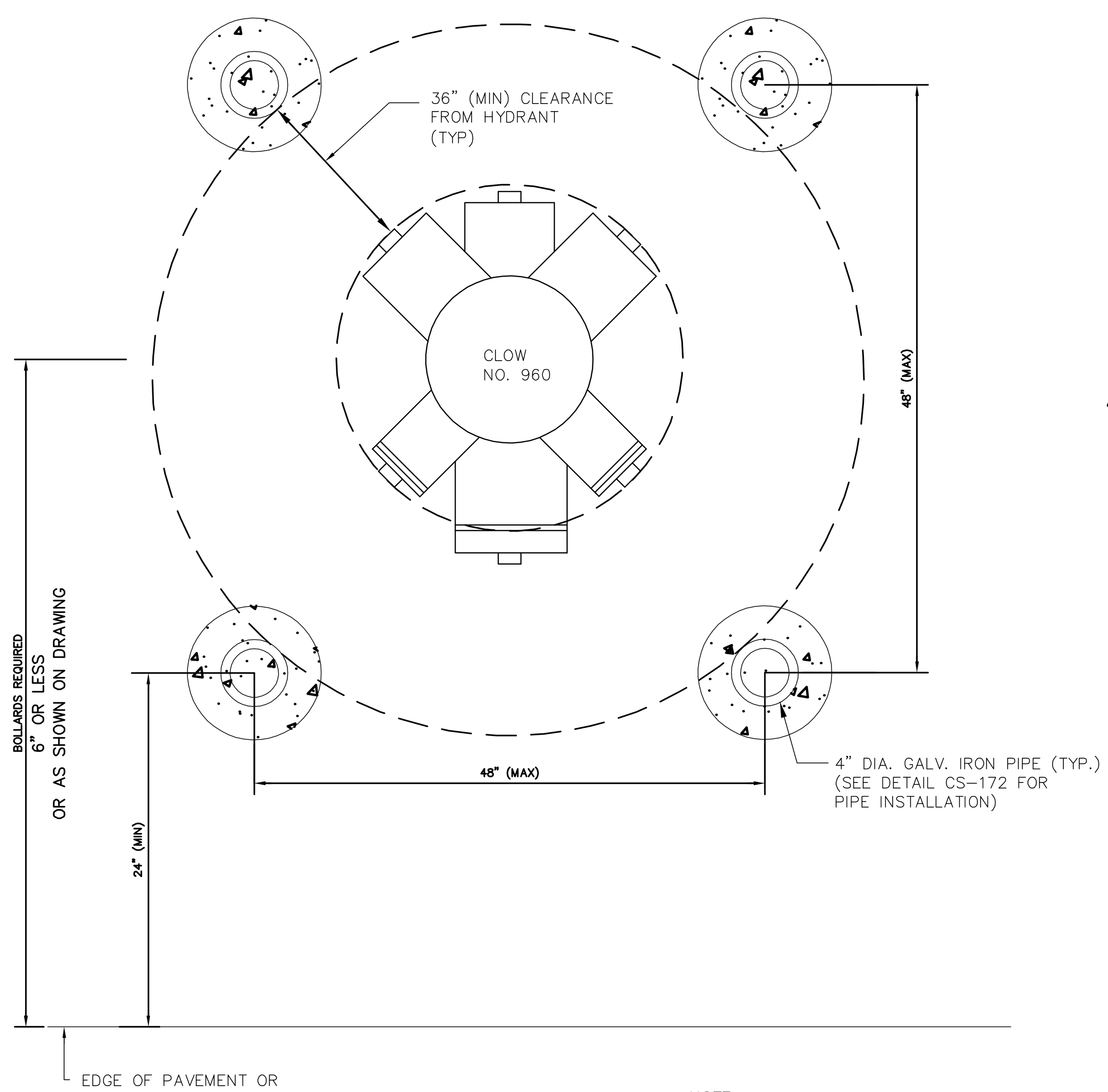
CIVIL DETAILS
C5.10

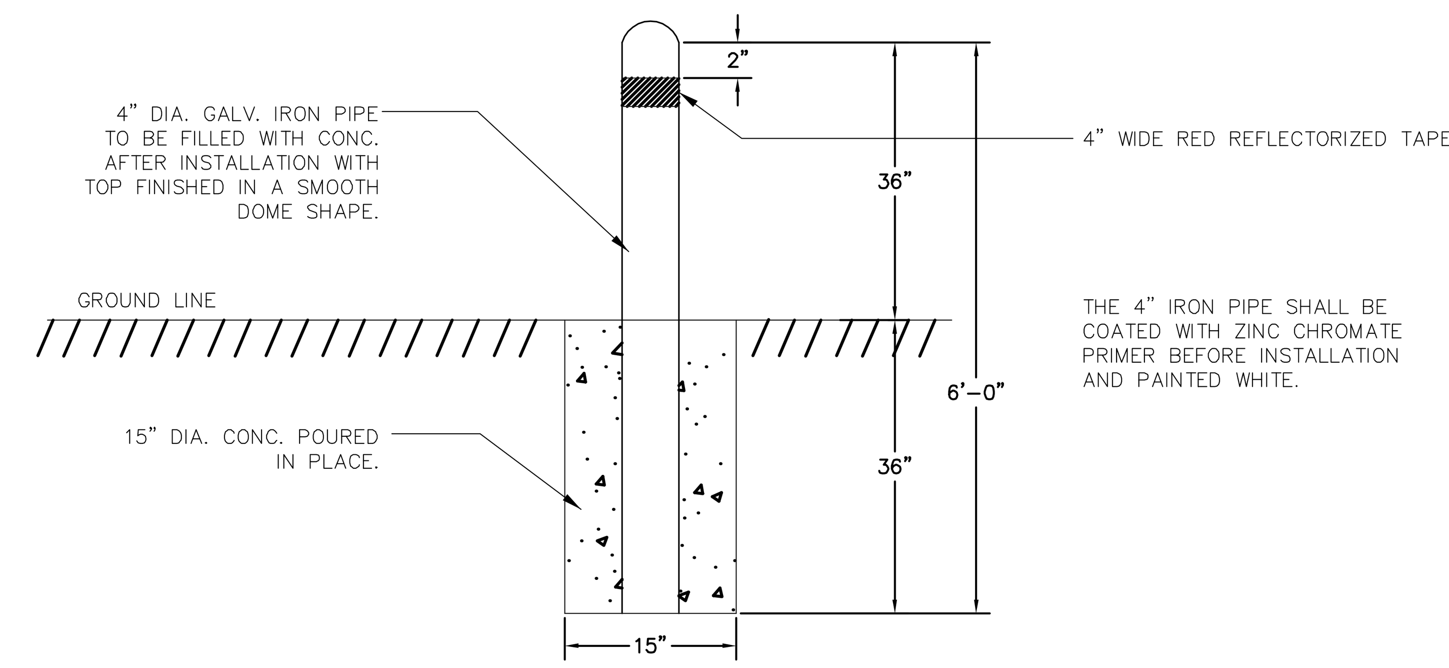
NOTE:

1. FLANGE BOLTS & NUTS SHALL BE KEPT CLEAR OF CONCRETE.
2. SEE PLAN FOR HYDRANT LOCATION.
3. STEEL TIE RODS & CLAMPS ARE NOT ACCEPTABLE.
4. PAINT HYDRANT WHITE.
5. SEE DETAIL CS-172 FOR GUARD POST REQUIREMENTS.
6. WHERE CURB IS ADJACENT TO HYDRANT, HEIGHT OF FLANGE SHALL BE 2" ABOVE CURB.
7. VERIFY HYDRANT LOCATION WITH WATER DEPARTMENT PRIOR TO INSTALLATION.
8. ADD CATHODIC PROTECTION WHEN SHOWN ON DRAWINGS



1 FIRE HYDRANT
NOT TO SCALE





SECTION

NOTE:
1. DETAIL APPLIES TO FIRE HYDRANT AND FIRE DEPARTMENT CONNECTION (FDC)

2 FIRE HYDRANT BOLLARD LAYOUT
NOT TO SCALE

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CIVIL DETAILS

C5.20

LEGEND

TOTAL SITE AREA = 46,617 SF

EXISTING PERVIOUS SURFACE — TOTAL AREA = 12,181 SF

EXISTING IMPERVIOUS SURFACE — TOTAL AREA = 34,436 SF

ROOF AREA = 2,047 SF

PARKING/PAVEMENT AREA = 27,539 SF

SIDEWALK/PAVEMENT AREA = 4,850 SF

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

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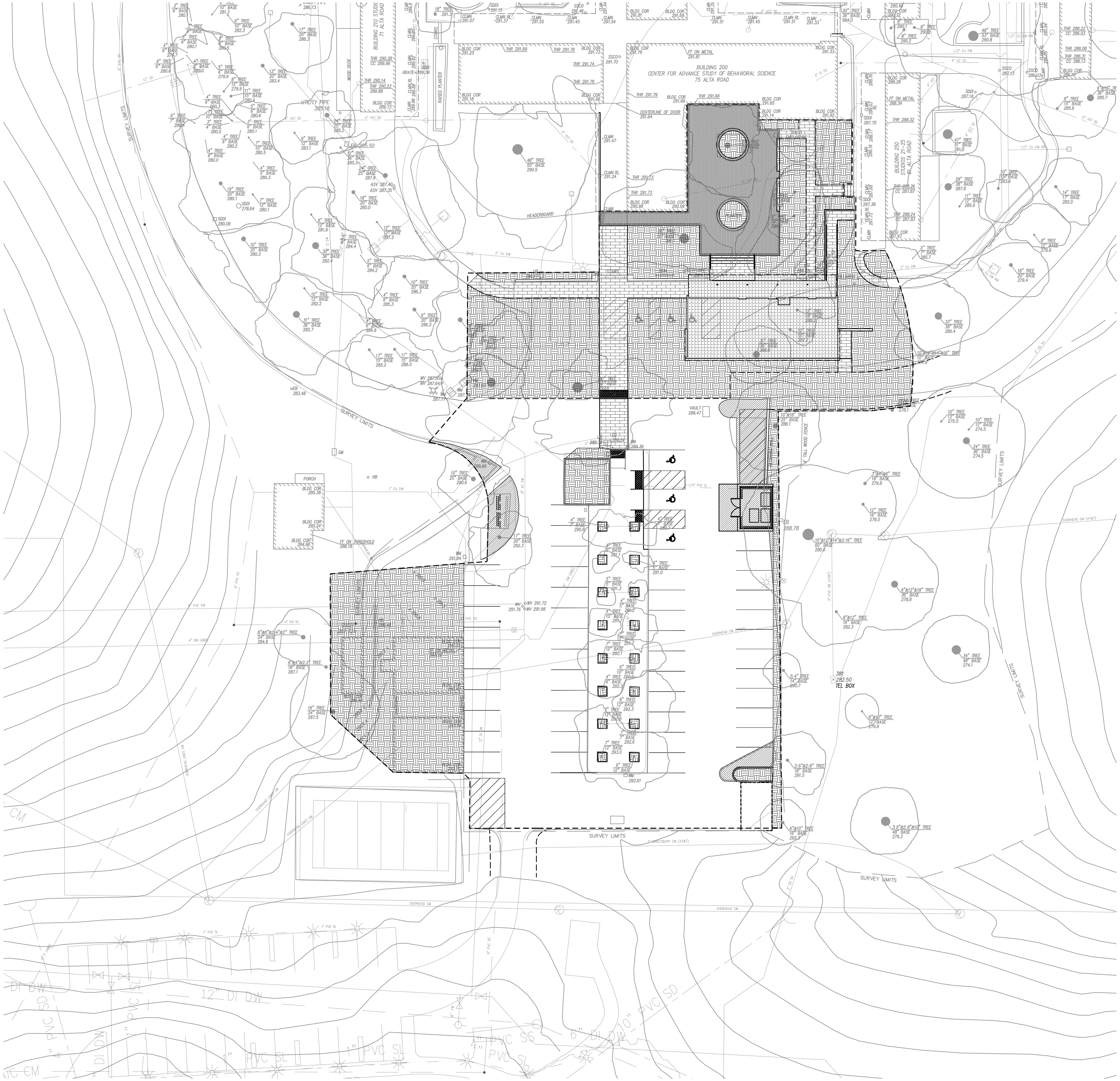
EXISTING SITE PERMEABILITY PLAN

EX1.00



LEGEND

TOTAL SITE AREA = 46,617 SF

PROPOSED PERVIOUS SURFACE	TOTAL AREA = 16,032 SF
PROPOSED PERVIOUS PAVER SURFACE	TOTAL AREA = 2,425 SF

TOTAL PROPOSED IMPERVIOUS SURFACE TOTAL AREA = 28,160 SF

PROPOSED IMPERVIOUS ROOF SURFACE (NEW)	TOTAL AREA = 2,430 SF
PROPOSED PATHWAY IMPERVIOUS SURFACE(NEW)	TOTAL AREA = 2,702 SF
PROPOSED PARKING IMPERVIOUS SURFACE(NEW)	TOTAL AREA = 1,639 SF
IMPERVIOUS TO REMAIN (EXISTING)	TOTAL AREA = 21,389 SF

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

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PROPOSED SITE PERMEABILITY PLAN

EX2.00

TREE NOTES

1. CONTRACTOR SHALL TAG ALL TREES TO BE REMOVED, RELOCATED AND PROTECTED. CONTRACTOR SHALL REVIEW ALL TREES WITH THE OWNER AND THE LANDSCAPE ARCHITECT PRIOR TO REMOVAL & RELOCATION.
2. PLEASE CONTACT A STANFORD ARBORIST TO BE PRESENT FOR NECESSARY ROOT EXCAVATION, DURING THE REMOVAL OF EXISTING PARKING LOT, CURB-PERIMETERS, SIDEWALKS AND OR AGGREGATE PATHWAYS, WHERE ANY TRENCHING MAY SEVER TREE ROOTS. THERE ARE MANY ESTABLISHED TREES IN NARROW PLANTING AREAS AND THESE TREE ROOTS HAVE GROWN NEXT TO OR UNDER SUCH CONCRETE, AGGREGATE WALK WAYS, AND PAST CURBS AND INTO THE PARKING LOT PERIMETERS. STANFORD ARBORIST'S ARE REQUIRED TO OVERSEE CONSTRUCTION WORK THAT IS DONE UNDER TREES, INCLUDING ROOT PRUNING.
3. THIS IS A LIST OF STANFORD UNIVERSITY ARBORISTS:
   MICHAEL GLADDEN (650) 313-9436 MGLADDEN@STANFORD.EDU
4. ALL EXISTING LANDSCAPED AREA AND IRRIGATION ARE TO BE RESTORED AND OPERATIONAL WITH PRIOR APPROVAL OF THE STANFORD UNIVERSITY ARCHITECT AND PLANNING OFFICE AND STANFORD GROUNDS SERVICES.
5. ONLY HAND EXCAVATION IS TO BE DONE FOR GRUBBING UNDERNEATH THE CANOPIES OR WITHIN ANY PROTECTED EXISTING TREES' ROOTZONE. FOLLOW ALL STANFORD UNIVERSITY TREE AND SHRUB PROTECTION GUIDELINES (AS SHOWN ABOVE) AND REFER TO THE FDG DOCUMENTATION.
6. COORDINATE WITH STANFORD ARBORIST PRIOR TO BEGINNING CONSTRUCTION IF PRUNING TO EXISTING TREES WILL BE NECESSARY IN ORDER TO COMPLETE THE REQUIRED WORK.

TREE RELOCATION LIST

BOTANICAL NAME	COMMON NAME	CALIPER	LOCATION
PHOENIX CANARIENSIS	DATE PALM	31" D.B.H.	SEE PLAN
QUERCUS AGRIFOLIA	COAST LIVE OAK	12" D.B.H.	SEE PLAN
QUERCUS AGRIFOLIA	COAST LIVE OAK	12" D.B.H.	SEE PLAN
QUERCUS AGRIFOLIA	COAST LIVE OAK	17" D.B.H.	SEE PLAN

STANFORD UNIVERSITY TREE AND SHRUB PROTECTION GUIDELINES

1. WE HAVE STRICT REQUIREMENTS WHICH INCLUDE THE POINTS LISTED BELOW AND ADDITIONAL PROCEDURES AS DETAILED IN THE FDG SPECIFICATIONS GUIDELINE 01 56 39 TREE AND SHRUB PROTECTION.
2. THE ROOT ZONE OF ALL TREES MUST BE PROTECTED ON ALL CONSTRUCTION PROJECTS, AS DESCRIBED BELOW. A TREE'S ROOT ZONE IS DEFINED AS THE AREA FROM THE TRUNK OUT TO 10' BEYOND THE DRIPLINE.
3. A STANFORD GROUNDS SERVICES CERTIFIED ARBORIST SHALL BE CONTACTED TO EVALUATE ALL WORK WITHIN ANY TREES ROOT ZONES.
4. ALL TREES TO REMAIN ON A PROJECT SHALL HAVE PROTECTIVE FENCING INSTALLED PER THE TREE PROTECTION DRAWING INCLUDED IN THE PLAN SET.
5. PROTECTIVE FENCING SHALL BE CHAIN LINK ON SECURE FOOTINGS, OR IMBEDDED AS REQUIRED BY THE CAMPUS PLANNING AND DESIGN OFFICE OR STANFORD GROUNDS SERVICES CERTIFIED ARBORIST, THAT WILL NOT FALL OVER ONTO TREES.
6. PROTECTIVE FENCING SHALL BE PLACED AT THE OUTER EDGE OF THE ROOT ZONE, 10' BEYOND THE TREE DRIPLINE WHEREVER POSSIBLE AS SHOWN ON TREE PROTECTION DRAWING. 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.
7. 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.
8. CONSTRUCTION MATERIALS/EQUIPMENT/PERSONAL VEHICLES SHALL NOT BE STORED, PARKED OR TEMPORARILY PLACED IN THE ROOT ZONE 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.
9. 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.
10. THERE SHALL BE NO GRADE CHANGE WITHIN A MINIMUM OF TEN FEET OF THE TRUNK OF EXISTING TREES, AND PREFERABLY NONE WITHIN THE ENTIRE ROOT ZONE. NATIVE OAKS ARE PARTICULARLY SENSITIVE TO GRADE CHANGES.
11. NO RINSING, CLEANING EQUIPMENT OR DUMPING CONSTRUCTION LIQUID MATERIALS SHALL BE ALLOWED IN THE TREE 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.
12. EXISTING TREES SHALL BE MONITORED WEEKLY AND IRRIGATED AS NEEDED DURING THE COURSE OF CONSTRUCTION.
13. NO LIME OR OTHER SOIL TREATMENT SHALL BE APPLIED WITHOUT THE CONSENT OF A STANFORD GROUNDS SERVICES CERTIFIED ARBORIST.
14. ALL TRENCHING SHALL CONFORM TO THE FOLLOWING GUIDELINES.
    A. 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 SGSCA.
    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.

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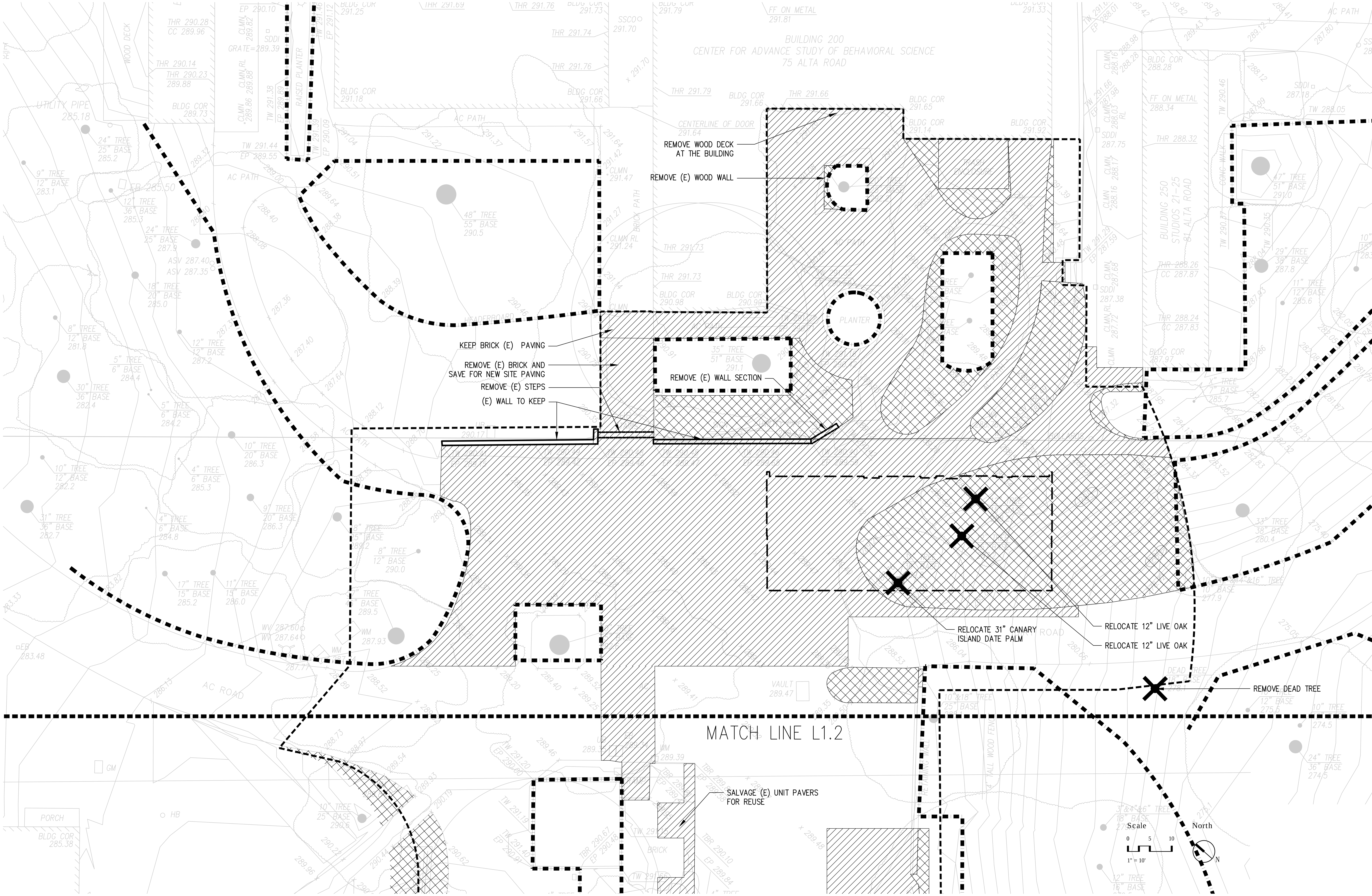
TREE PROTECTION, RELOCATION AND DEMOLITION NOTES

L1.0



LEGEND

EXISTING HARDSCAPE TO BE REMOVED	TREE PROTECTION FENCE
EXISTING LANDSCAPE TO BE REMOVED	LIMIT OF WORK
TREE TO BE REMOVED AND RELOCATED	TREE TO BE REMOVED

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job no. STFS601
date 06/03/2020

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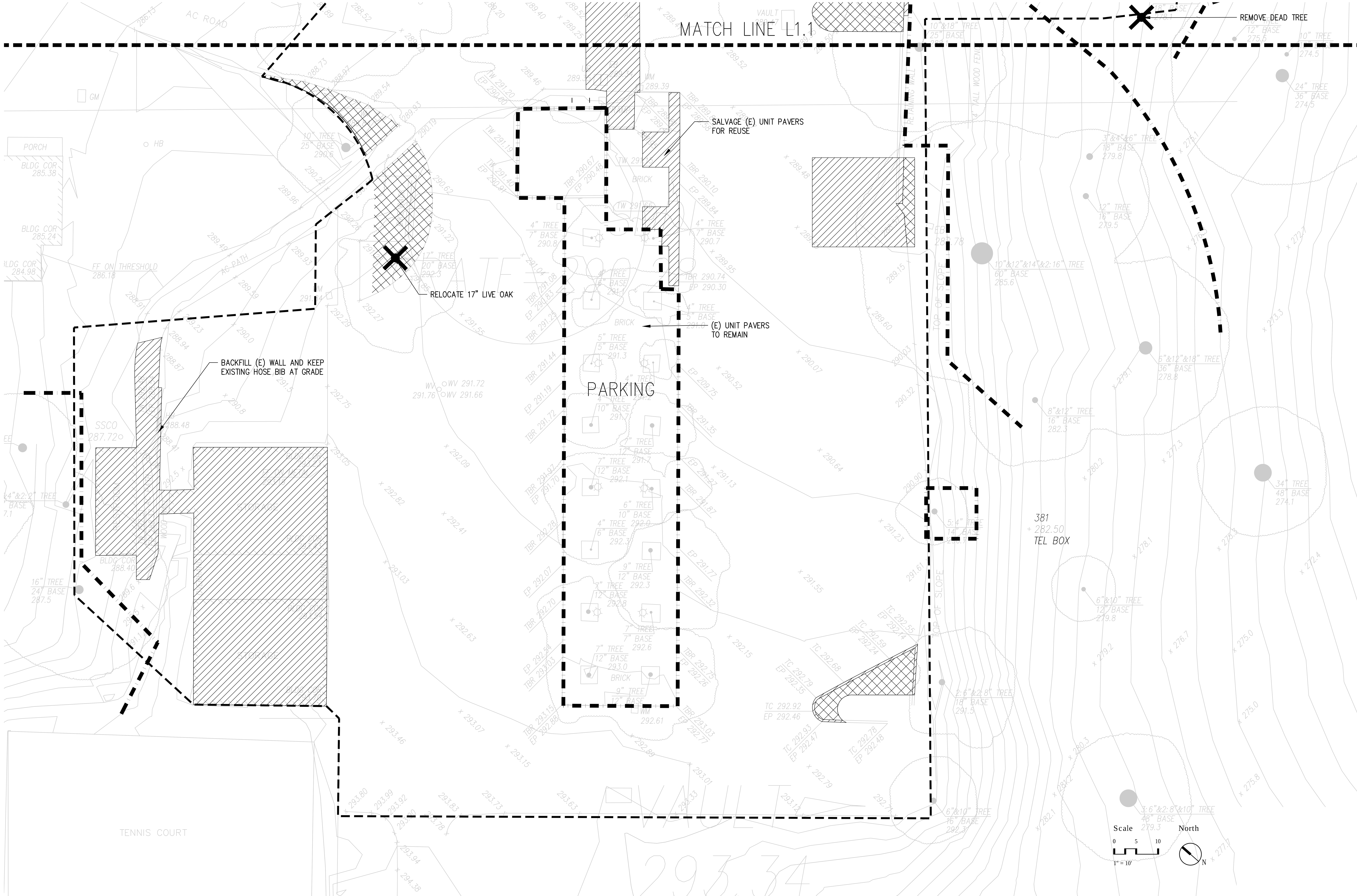
TREE PROTECTION, RELOCATION AND DEMOLITION

L1.1



LEGEND

EXISTING HARDSCAPE TO BE REMOVED	TREE PROTECTION FENCE
EXISTING LANDSCAPE TO BE REMOVED	LIMIT OF WORK
TREE TO BE REMOVED AND RELOCATED	TREE TO BE REMOVED

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TREE PROTECTION, RELOCATION AND DEMOLITION

L1.2

SITE PLAN NOTES

1. LOCATION OF ALL ABOVE GROUND ELEMENTS TO BE REVIEWED AND APPROVED BY LANDSCAPE ARCHITECT OR STANFORD REPRESENTATIVE.
2. PROPOSED ELEMENTS, INCLUDING UTILITIES, LOCATED AMONG EXISTING TREES SHALL BE REVIEWED IN FIELD WITH LANDSCAPE ARCHITECT AND STANFORD ARBORIST PRIOR TO EXCAVATING.
3. PROVIDE 4'X4' SQUARE MOCKUPS FOR ALL CONCRETE FLAT WORK WITH PROPOSED JOINTING. MATCH EXISTING GREY CONCRETE WITH LIGHT SANDBLAST FINISH.
4. PROVIDE 6'X6' SQUARE MOCKUPS FOR PERVIOUS BRICK PAVING. INCLUDE EDGE BAND AND ADDITIONAL BRICK TO REPRESENTING FULL COLOR RANGE TO MATCH TO EXISTING BRICK.
5. PROVIDE MOCKUP OF 4' LONG SECTION OF STEPS WITH CONTRASTING STRIPE FOR REVIEW AND APPROVAL.
6. PROVIDE MOCKUP OF 4' LONG SECTION OF CURVED STONE WALL TO MATCH EXISTING FOR REVIEW AND APPROVAL BY LANDSCAPE ARCHITECT OR STANFORD REPRESENTATIVE.
7. PROVIDE 24" LONG SAMPLE OF TRENCH DRAIN GRATE FOR APPROVAL BY LANDSCAPE ARCHITECT AND STANFORD REPRESENTATIVE.
8. PROVIDE MOCKUP OF MODIFIED CURB RAMPS IN PARKING LOT FOR APPROVAL BY LANDSCAPE ARCHITECT AND STANFORD REPRESENTATIVE.
9. TRASH AND RECYCLE BINS TO BE DETERMINED AND WILL BE LOCATED BY LANDSCAPE ARCHITECT OR STANFORD REPRESENTATIVE PRIOR TO ORDERING OR INSTALLATION.
10. ALL EXISTING AND PROPOSED ASPHALT, MULCH AND AGGREGATE PATHS TO HAVE METAL HEADERS.

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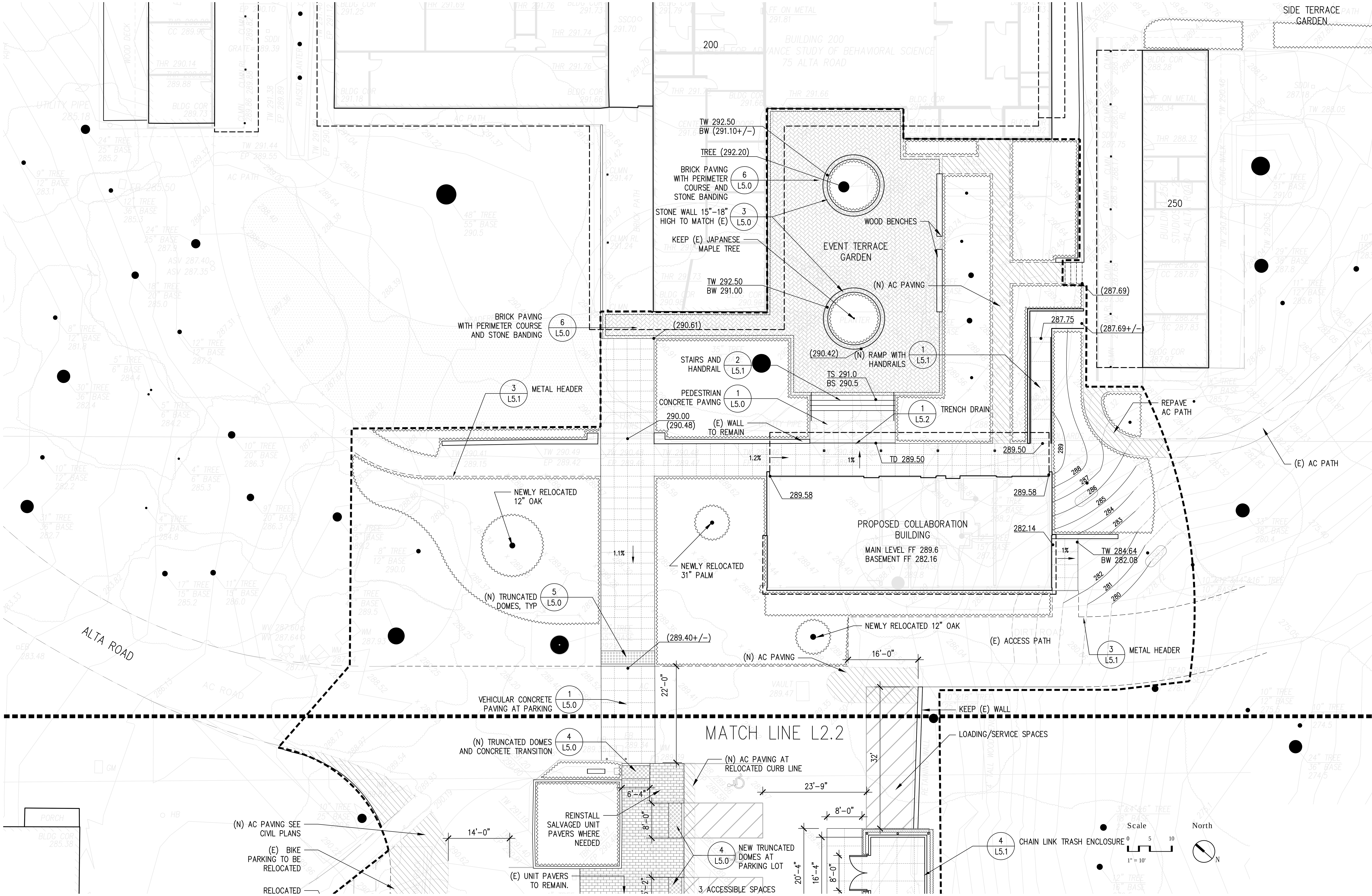
MATERIAL SCHEDULE AND NOTES

L2.0



LEGEND

CONCRETE PAVING	EXISTING UNIT PAVERS REUSE AT CURB RAMPS
TRUNCATED DOMES	BRICK PAVING SET ON SAND
LIMIT OF WORK	NEW AC PAVING

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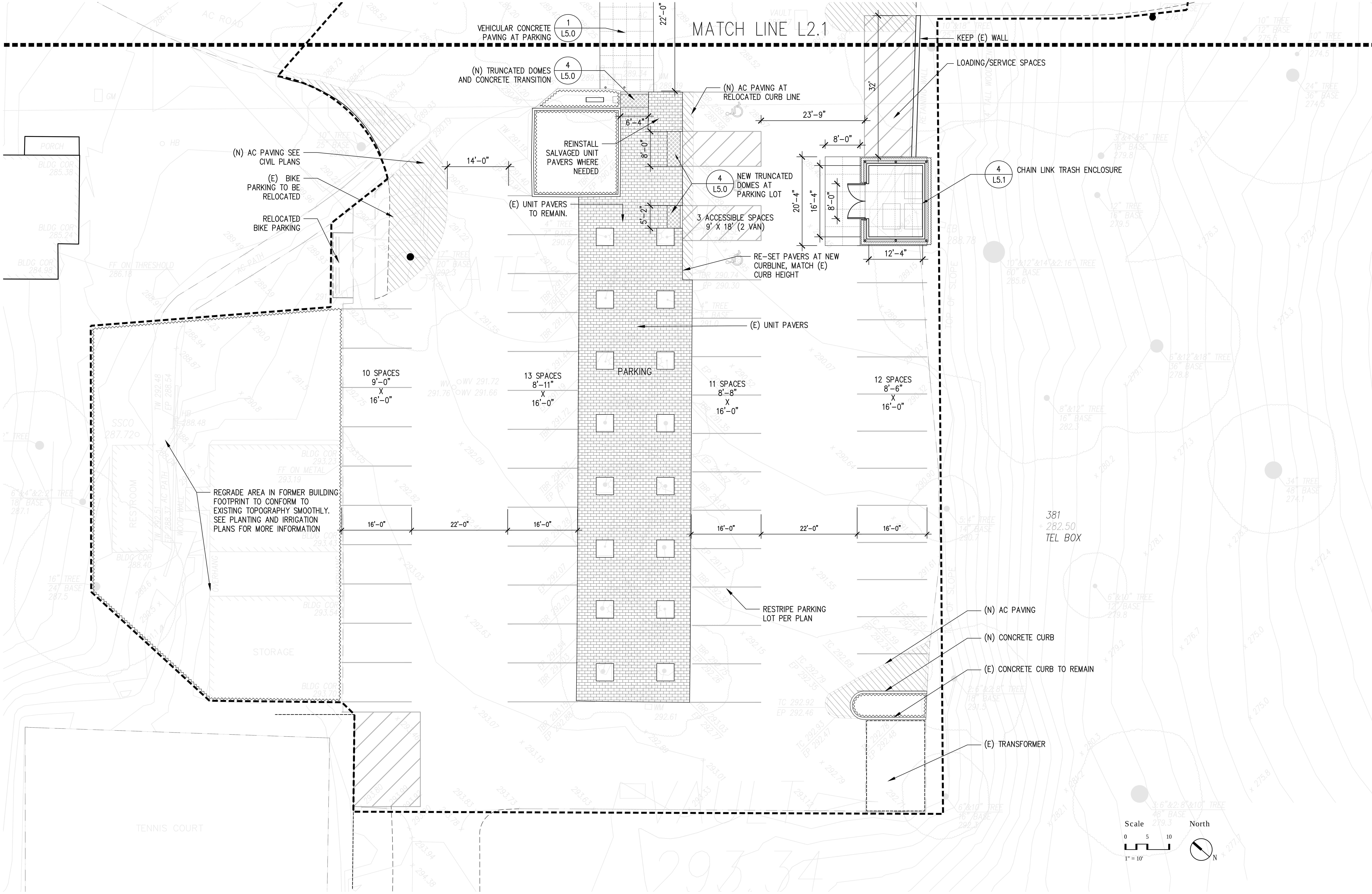
LANDSCAPE SITE PLAN

L2.1



LEGEND

CONCRETE PAVING	BRICK PAVING SET ON SAND
EXISTING UNIT PAVERS REUSE AT CURB RAMPS	LIMIT OF WORK
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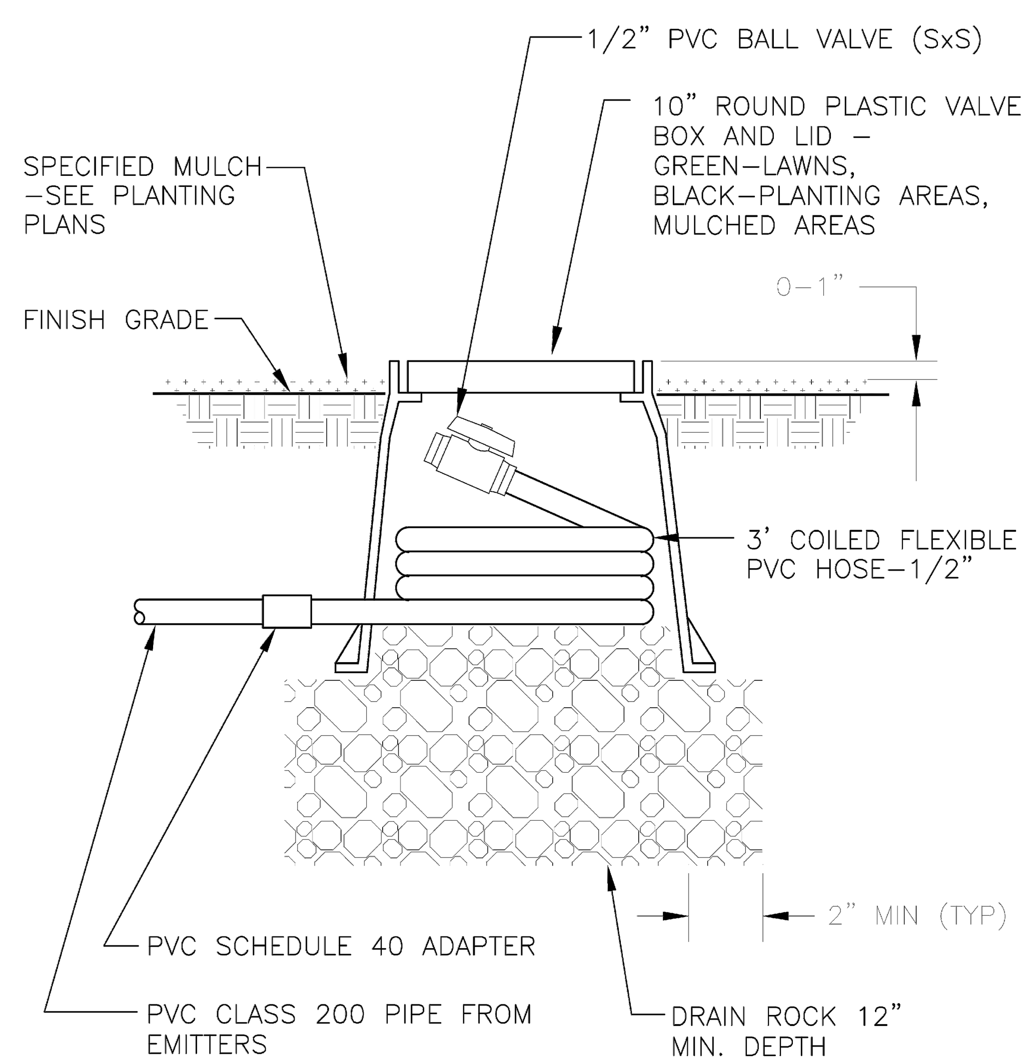
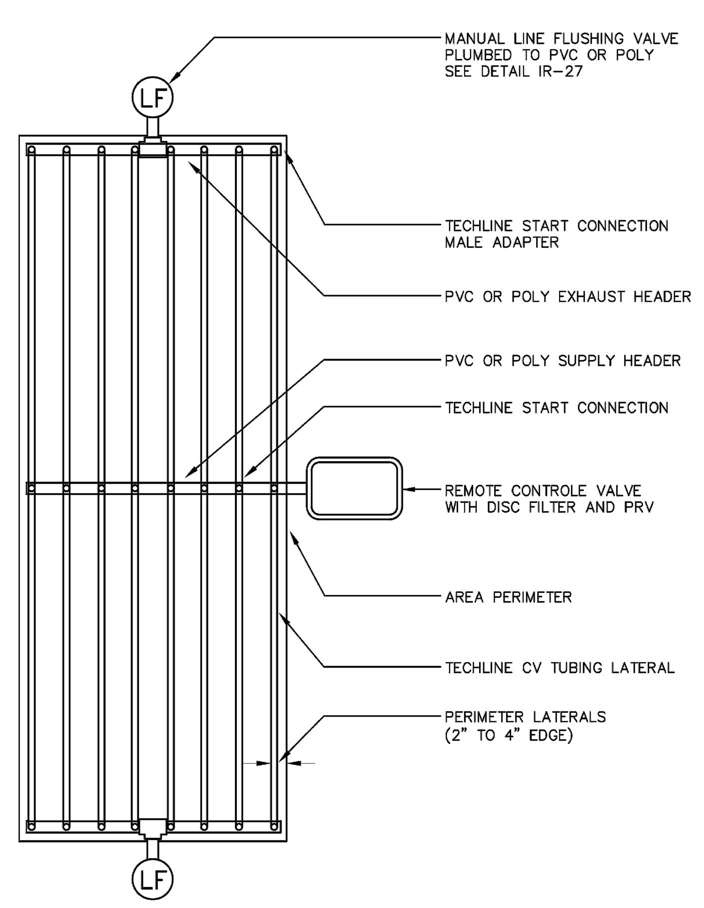
LANDSCAPE SITE PLAN

L2.2



STANFORD UNIVERSITY FACILITY OPERATIONS				DWG.
Drawing Title: FLUSH VALVE INSTALLATION				IR-27
Scale: NTS	Check:	Rev. By: O.G.	Rev. Date: 01/08/09	



SUB SURFACE DRIP IRRIGATION FOR SHRUB PLANTING – CENTER FEED LAYOUT

STANFORD UNIVERSITY FACILITY OPERATIONS				DWG.
Drawing Title: SUB SURFACE DRIP IRR. FOR SHRUB PLANTING – CENTER FEED				IR-34
Scale: NTS	Check:	Rev. By: OG	Rev. Date: 01/06/09	

IRRIGATION LEGEND

SYMBOL	DESCRIPTION
	CONTROLLER AND STATION NUMBER FLOW (GPM) REMOTE CONTROL VALVE SIZE (IN INCHES) ASSOCIATED REMOTE CONTROL VALVE
	CONTROLLER AND STATION NUMBER AREA (SQ. FT.) FLOW (GPM) REMOTE CONTROL VALVE SIZE (IN INCHES) ASSOCIATED REMOTE CONTROL VALVE
	MAIN LINE: 2 1/2" AND SMALLER: 1120-SCHEDULE 40 PVC PLASTIC PIPE WITH SCHEDULE 40 PVC SOLVENT WELD FITTINGS. 18" COVER.
	LATERAL LINE: 3/4" AND LARGER: 1120-SCHEDULE 40 PVC PLASTIC PIPE WITH SCHEDULE 40 PVC SOLVENT WELD FITTINGS. 12" COVER.
	SLEEVING: SCHEDULE 40 PVC PLASTIC PIPE. COVER TO BE AS INDICATED IN SPECIFICATIONS OR AS INDICATED ABOVE FOR PIPE DEPTH OF COVER.
	DRIP LATERAL LINE: 3/4" AND LARGER: 1120-SCHEDULE 40 PVC PLASTIC PIPE WITH SCHEDULE 40 PVC SOLVENT WELD FITTINGS. 12" COVER.
PVC LATERAL PVC SUPPLY HEADER PVC EXHAUST HEADER	DRIPLINE REMOTE CONTROL VALVE DRIP ZONE: NETAFIM TECHLINE HCVXR (CHECK VALVE & COPPER) SERIES DRIPLINE, PART # TLHCVXR5-18. TUBING TO BE INSTALLED 4" BELOW GRADE IN A 18" O.C. GRID ACCORDING TO DETAILS. SIZE EXHAUST HEADERS AS FOLLOWS: 1": 0-10 GPM, 1.25": 11-20 GPM. ALL EXHAUST HEADERS SHALL BE 1" SCH 40 PVC OR 1" SCH 40 FLEXIBLE PVC. USE SCH. 40 PVC SOLVENT WELD FITTINGS. EXTEND PVC HEADERS TO THE ENDS OF ALL DRIP ZONES TO BALANCE FLOW IF REQUIRED. SEE DETAILS FOR FURTHER INFORMATION.
PVC LATERAL PVC SUPPLY HEADER PVC EXHAUST HEADER	DRIPLINE REMOTE CONTROL VALVE DRIP ZONE: NETAFIM TECHLINE HCVXR (CHECK VALVE & COPPER) SERIES DRIPLINE, PART # TLHCVXR5-12. TUBING TO BE INSTALLED 4" BELOW GRADE IN A 12" O.C. GRID ACCORDING TO DETAILS. SIZE EXHAUST HEADERS AS FOLLOWS: 1": 0-10 GPM, 1.25": 11-20 GPM. ALL EXHAUST HEADERS SHALL BE 1" SCH 40 PVC OR 1" SCH 40 FLEXIBLE PVC. USE SCH. 40 PVC SOLVENT WELD FITTINGS. EXTEND PVC HEADERS TO THE ENDS OF ALL DRIP ZONES TO BALANCE FLOW IF REQUIRED. SEE DETAILS FOR FURTHER INFORMATION.
PVC LATERAL	DRIPLINE REMOTE CONTROL VALVE APPROXIMATE CONNECTION POINT BETWEEN DRIPLINE TUBING AND PVC SUPPLY WHEN DRIP ZONE IS LESS THAN 3 GPM AND NO PVC SUPPLY/EXHAUST HEADERS ARE NEEDED. REFER TO DRIPLINE TUBING CONNECTION DETAIL FOR MORE INFORMATION.

IRRIGATION LEGEND

SYMBOL	MODEL NUMBER	DESCRIPTION	NOZZLE GPM	OPERATING PSI	OPERATING RADIUS (FEET)
	1806-SAM-PRS/ HE-VAN-15	RAIN BIRD POP-UP SPRAY SPRINKLER (TURF)	3.7,1.8,0.9	30	12-15
	1806-SAM-PRS/ HE-VAN-12	RAIN BIRD POP-UP SPRAY SPRINKLER (TURF)	2.4,1.2,0.6	30	10-12
	1806-SAM-PRS/ HE-VAN-10	RAIN BIRD POP-UP SPRAY SPRINKLER (TURF)	2.4,1.2,0.6	30	8-10
	1806-SAM-PRS/ HE-VAN-8	RAIN BIRD POP-UP SPRAY SPRINKLER (TURF)	1.8,0.9,0.45	30	6-8
	1401 SERIES	RAIN BIRD BUBBLER, 2 MIN PER TREE	0.5	30	TRICKLE
	1401 SERIES	RAIN BIRD BUBBLER, 1 PER SHRUB	0.25	30	TRICKLE
	65ARIA075	NETAFIM DRIPLINE AIR/VACUUM RELIEF VENT			
	EBV-0500-T	NDS DRIPLINE FLUSH VALVE, 1/2" SCH. 40 PVC BALL VALVE			
	1806-SAM/MPR-5Q	RAIN BIRD POP-UP SPRINKLER WITH SIDE INLET AND A CLOSED 5' NOZZLE TO BE USED AS DRIPLINE INDICATOR			
	PEB SERIES	RAIN BIRD REMOTE CONTROL VALVE			
	100-PEB-PRS-D/ RBY100MPTX	RAIN BIRD REMOTE CONTROL VALVE WITH A PRESSURE REGULATOR (SET TO 45 PSI) AND A 1" FILTER (0.20-18 GPM)			
	33 DNP	RAIN BIRD QUICK COUPLING VALVE			
	LGT-XX-SS	LEEMCO STAINLESS STEEL GATE VALVE (LINE SIZE)-2.5" AND SMALLER			
	2160K	GRISWOLD MASTER VALVE, 1.5" (NORMALLY OPEN)			
	FS-150B	RAIN BIRD FLOW SENSOR			
	SXL-2"	WILKENS WYE STRAINER			
	500HLR-2"	WILKENS WYE PRESSURE REGULATING VALVE			
	975XLSEU-2"/LE MUER LBF99/PBB-30	FEBCO REDUCED PRESSURE BACKFLOW ASSEMBLY WITH A LE MUER ENCLOSURE AND FREEZE BLANKET.			
C	MAXI-PEDS-1-P5-NA -LK450-EL24-ANT07 -FM-SPP-NL-RBSC -SATVRF-LINKSURVEY	RAIN BIRD ESP-SAT SERIES CONTROLLER (42 STATION, CLUSTER CONTROL UNIT (CCU) INTERFACE AND FLOW MONITORING WITH RADIO COMMUNICATION. ALL IN A SINGLE STAINLESS STEEL PEDESTAL MOUNTED ENCLOSURE. CONTACT RAIN BIRD SERVICES BEFORE CONTROLLER IS ORDERED TO COORDINATE A LINK SURVEY VISIT TO ENSURE PROPER ORDERING OF CONTROLLER.			

NOTE:
ALL COPIES OF IRRIGATION INVOICES FOR ANY RAIN BIRD PRODUCTS USED ON THIS PROJECT TO BE RETAINED AND SUBMITTED TO STANFORD GROUNDS SERVICES. CONTACT DENNIS NICE (650) 804-2476

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IRRIGATION NOTES AND LEGEND

L3.0

NOTES:

1. ONE BUBBLER SYMBOL IS SHOWN AT TREES FOR GRAPHIC CLARITY ONLY. INSTALL MINIMUM TWO BUBBLERS AT EACH TREE. INSTALL REQUIRED NUMBER OF BUBBLERS AS DETAILED.
2. IRRIGATION EQUIPMENT MAY BE SHOWN WITHIN HARDSCAPE FOR GRAPHIC CLARITY ONLY. INSTALL ALL IRRIGATION EQUIPMENT WITHIN PLANTED AREAS. IRRIGATION PIPE AND WIRE CROSSING BENEATH HARDSCAPE SURFACES SHALL BE CONTAINED WITHIN SLEEVING OR SCHEDULE 40 PVC CONDUIT. SLEEVING SIZE SHALL BE A MINIMUM OF TWO TIMES THE AGGREGATE DIAMETER OF ALL PIPES CONTAINED WITH SLEEVE. PROVIDE VERTICAL SWEEP FOR ALL ELECTRICAL CONDUIT ON EACH SIDE OF HARDSCAPE AND TERMINATE ENDS AT 12" MINIMUM DEPTH AND 12" FROM HARDSCAPE SURFACE.
3. UNSIZED LATERAL LINE PIPING LOCATED DOWN STREAM OF 1" PIPING SHALL BE 3/4" IN SIZE (TYPICAL).
4. SIZING OF LATERAL PIPE SHALL BE AS FOLLOWS:

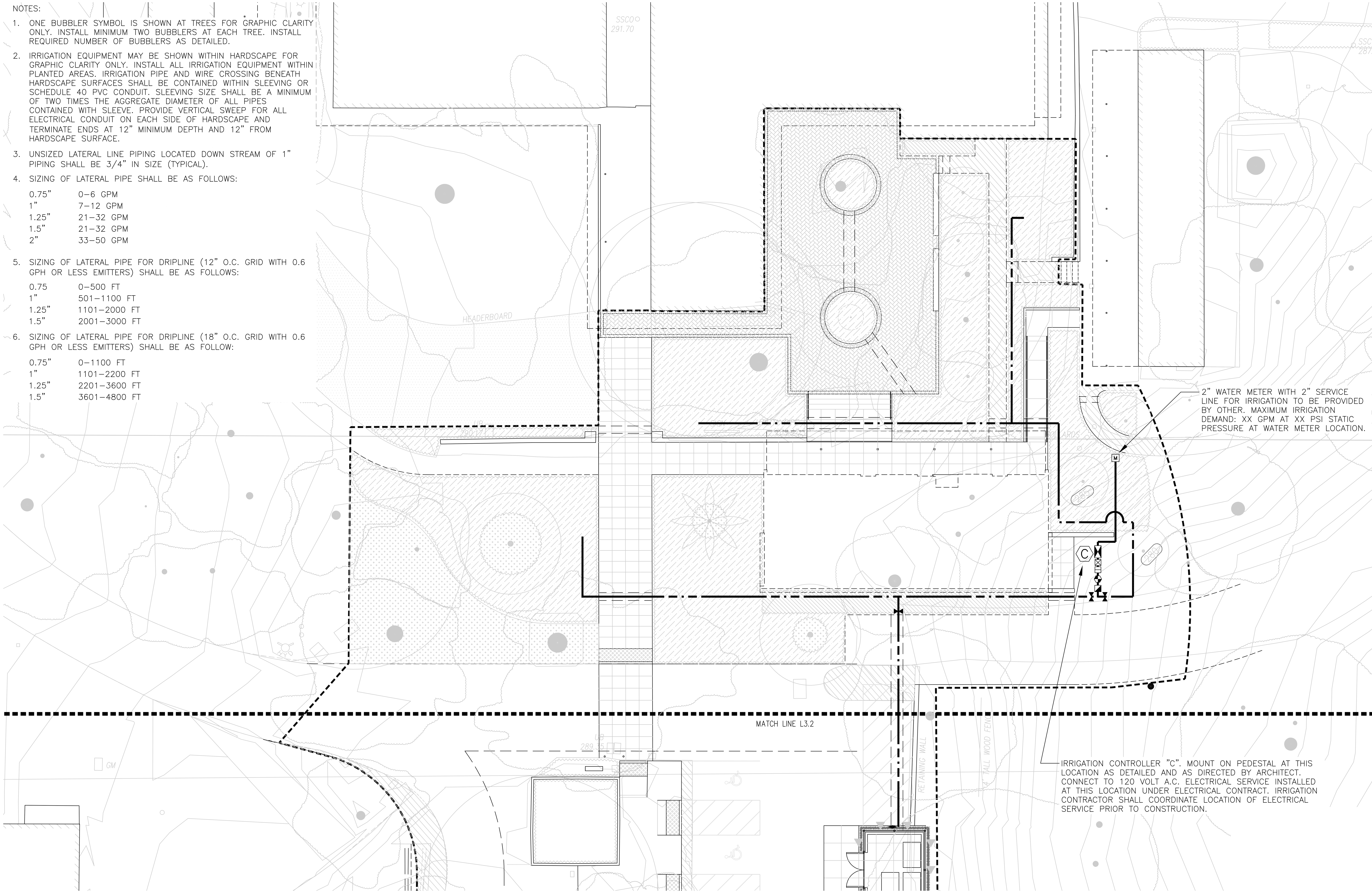
0.75"	0–6 GPM
1"	7–12 GPM
1.25"	21–32 GPM
1.5"	21–32 GPM
2"	33–50 GPM

5. SIZING OF LATERAL PIPE FOR DRIPLINE (12" O.C. GRID WITH 0.6 GPH OR LESS EMITTERS) SHALL BE AS FOLLOWS:

0.75	0–500 FT
1"	501–1100 FT
1.25"	1101–2000 FT
1.5"	2001–3000 FT

6. SIZING OF LATERAL PIPE FOR DRIPLINE (18" O.C. GRID WITH 0.6 GPH OR LESS EMITTERS) SHALL BE AS FOLLOW:

0.75"	0–1100 FT
1"	1101–2200 FT
1.25"	2201–3600 FT
1.5"	3601–4800 FT



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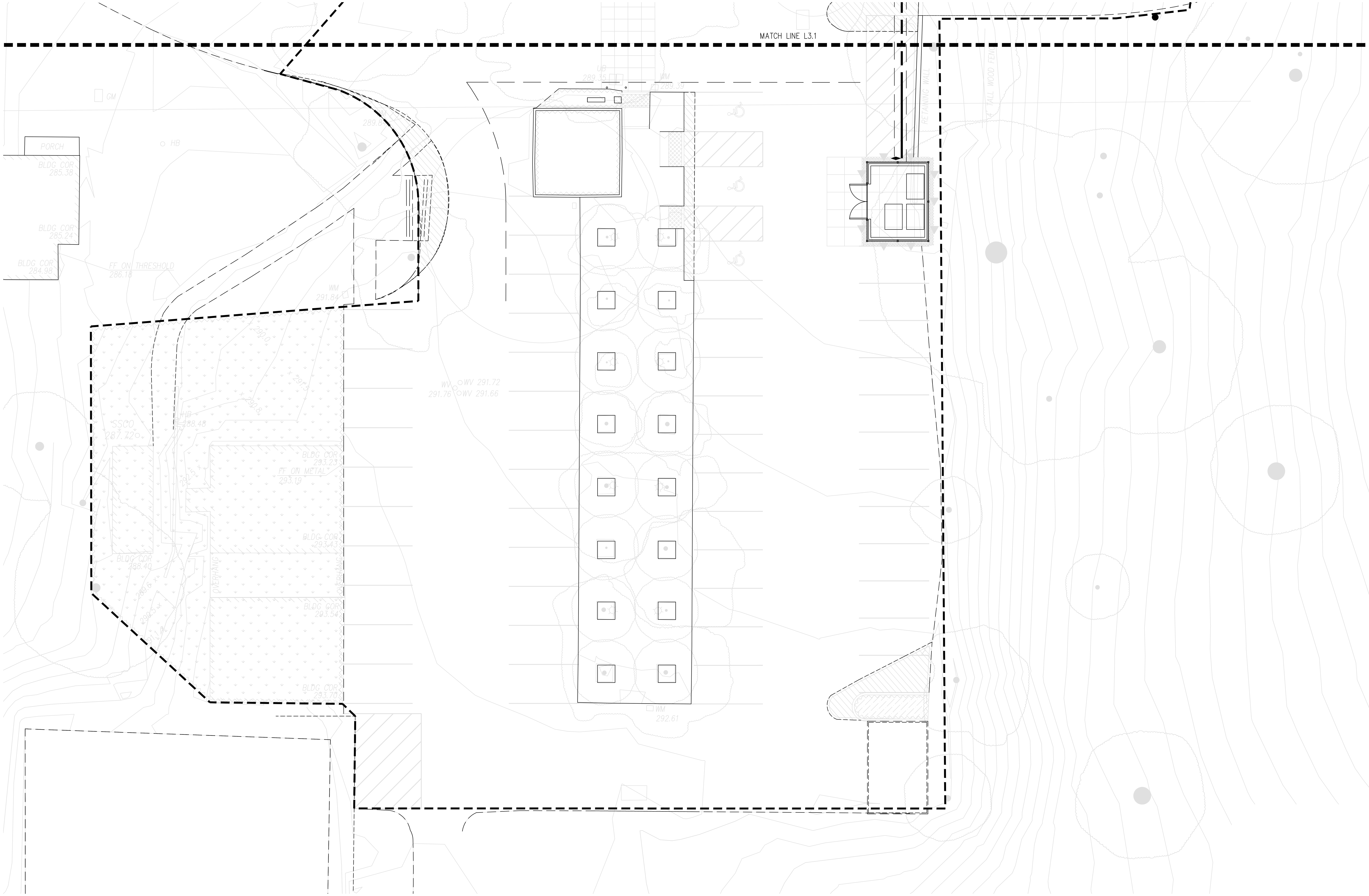
IRRIGATION PLAN

L3.1



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IRRIGATION PLAN

L3.2

IRRIGATION NOTES

1. THESE IRRIGATION DRAWINGS ARE DIAGRAMMATIC AND INDICATIVE OF THE WORK TO BE INSTALLED. ALL PIPING, VALVES, AND OTHER IRRIGATION COMPONENTS MAY BE SHOWN WITHIN PAVED AREAS FOR GRAPHIC CLARITY ONLY AND ARE TO BE INSTALLED WITHIN PLANTING AREAS. DUE TO THE SCALE OF THE DRAWINGS, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS, SLEEVES, CONDUIT, AND OTHER ITEMS WHICH MAY BE REQUIRED. INVESTIGATE THE STRUCTURAL AND FINISHED CONDITION AFFECTING THE CONTRACT WORK INCLUDING OBSTRUCTIONS, GRADE DIFFERENCES OR AREA DIMENSIONAL DIFFERENCES. IN THE EVENT OF FIELD DISCREPANCY WITH CONTRACT DOCUMENTS, PLAN THE INSTALLATION WORK ACCORDINGLY BY NOTIFICATION AND APPROVAL OF THE OWNER'S AUTHORIZED REPRESENTATIVE AND ACCORDING TO THE CONTRACT SPECIFICATIONS. NOTIFY AND COORDINATE IRRIGATION CONTRACT WORK WITH APPLICABLE CONTRACTORS FOR THE LOCATION AND INSTALLATION OF PIPE, CONDUIT OR SLEEVES THROUGH OR UNDER WALLS, ROADWAYS, PAVING AND STRUCTURES BEFORE CONSTRUCTION. IN THE EVENT THESE NOTIFICATIONS ARE NOT PERFORMED, THE CONTRACTOR ASSUMES FULL RESPONSIBILITY FOR REQUIRED REVISIONS.

2. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES, STANDARDS, AND REGULATIONS. ALL WORK AND MATERIALS SHALL BE IN FULL ACCORDANCE WITH THE LATEST RULES AND REGULATIONS OF THE NATIONAL ELECTRIC CODE; THE UNIFORM PLUMBING CODE, PUBLISHED BY THE WESTERN PLUMBING OFFICIALS ASSOCIATION; AND OTHER STATE OR LOCAL LAWS OR REGULATIONS. NOTHING IN THESE DRAWINGS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES OR REGULATIONS. THE CONTRACTOR SHALL FURNISH WITHOUT ANY EXTRA CHARGE, ANY ADDITIONAL MATERIAL AND LABOR WHEN REQUIRED BY THE COMPLIANCE WITH THESE CODES AND REGULATIONS.

3. THE CONTRACTOR SHALL COORDINATE INSTALLATION OF IRRIGATION SYSTEM WITH LAYOUT AND INSTALLATION OF THE PLANT MATERIALS TO INSURE THAT THERE WILL BE COMPLETE AND UNIFORM IRRIGATION COVERAGE OF PLANTING IN ACCORDANCE WITH THESE DRAWINGS, AND CONTRACT DOCUMENTS. THE IRRIGATION LAYOUT SHALL BE CHECKED BY THE CONTRACTOR AND OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO CONSTRUCTION TO DETERMINE IF ANY CHANGES, DELETIONS, OR ADDITIONS ARE REQUIRED. IRRIGATION SYSTEM SHALL BE INSTALLED AND TESTED PRIOR TO INSTALLATION OF PLANT MATERIAL.

4. THE INTENT OF THIS IRRIGATION SYSTEM IS TO PROVIDE THE MINIMUM AMOUNT OF WATER REQUIRED TO SUSTAIN GOOD PLANT HEALTH.

5. IT IS THE RESPONSIBILITY OF THE MAINTENANCE CONTRACTOR AND/OR OWNER TO PROGRAM THE IRRIGATION CONTROLLER(S) TO PROVIDE THE MINIMUM AMOUNT OF WATER NEEDED TO SUSTAIN GOOD PLANT HEALTH. THIS INCLUDES MAKING ADJUSTMENTS TO THE PROGRAM FOR SEASONAL WEATHER CHANGES, PLANT MATERIAL, WATER REQUIREMENTS, MOUNDS, SLOPES, SUN, SHADE AND WIND EXPOSURE.

6. IT IS THE RESPONSIBILITY OF A LICENSED ELECTRICAL CONTRACTOR TO PROVIDE 120 VOLT A.C. (2.5 AMP DEMAND PER CONTROLLER) ELECTRICAL SERVICE TO THE CONTROLLER LOCATION(S). IT IS THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO COORDINATE THE ELECTRICAL SERVICE STUB-OUT TO THE CONTROLLER(S). PROVIDE PROPER GROUNDING PER CONTROLLER MANUFACTURER'S INSTRUCTIONS AND IN ACCORDANCE WITH LOCAL CODES.

7. PROVIDE EACH CONTROLLER WITH ITS OWN GROUND ROD. SEPARATE THE GROUND RODS BY A MINIMUM OF EIGHT FEET. THE GROUND ROD SHALL BE AN EIGHT FOOT LONG BY 5/8" DIAMETER U.L. APPROVED COPPER CLAD ROD. INSTALL NO MORE THAN 6" OF THE GROUND ROD ABOVE FINISH GRADE. CONNECT #6 GAUGE WIRE WITH A U.L. APPROVED GROUND ROD CLAMP TO ROD AND BACK TO GROUND SCREW AT BASE OF CONTROLLER WITH APPROPRIATE CONNECTOR. MAKE THIS WIRE AS SHORT AS POSSIBLE, AVOIDING KINKS OR BENDING.

8. SCHEDULE A MEETING WHICH INCLUDES REPRESENTATIVES OF THE IRRIGATION CONTROLLER MANUFACTURER, THE MAINTENANCE CONTRACTOR, THE OWNER AND THE IRRIGATION CONTRACTOR AT THE SITE FOR INSTRUCTION ON THE PROPER PROGRAMMING AND OPERATION OF THE IRRIGATION CONTROLLER.

9. INSTALL 3" DETECTABLE TAPE ABOVE ALL PRESSURIZED MAIN LINES AS DETAILED. USE CHRISTY MODEL #TA-DT-3-BIRR FOR POTABLE IRRIGATION SYSTEMS OR #TA-DT-3-PRW FOR RECYCLED IRRIGATION WATER SYSTEMS.

10. PROVIDE EACH IRRIGATION CONTROLLER WITH ITS OWN INDEPENDENT LOW VOLTAGE COMMON GROUND WIRE.

11. IRRIGATION CONTROL WIRES: SOLID COPPER WITH U.L. APPROVAL FOR DIRECT BURIAL IN GROUND. COMMON GROUND WIRE: SIZE #12-1 WIRE WITH A WHITE INSULATING JACKET. CONTROL WIRE SERVICING REMOTE CONTROL VALVES: SIZE #14-1 WIRE WITH INSULATING JACKET OF COLOR OTHER THAN WHITE. TRACING WIRE SHALL HAVE A YELLOW INSULATING JACKET. SPLICES SHALL BE MADE WITH 3M-DBY SEAL PACKS OR APPROVED EQUAL.

12. INSTALL TWO SPARE CONTROL WIRES OF A DIFFERENT COLOR ALONG THE ENTIRE MAIN LINE. LOOP 36" EXCESS WIRE INTO EACH SINGLE VALVE BOX AND INTO ONE VALVE BOX IN EACH GROUP OF VALVES.

13. SPLICING OF LOW VOLTAGE WIRES IS PERMITTED IN VALVE BOXES ONLY. LEAVE A 36" LONG, 1" DIAMETER COIL OF EXCESS WIRE AT EACH SPLICE AND A 36" LONG EXPANSION LOOP EVERY 100 FEET ALONG WIRE RUN. TAPE WIRES TOGETHER EVERY TEN FEET. DO NOT TAPE WIRES TOGETHER WHERE CONTAINED WITHIN SLEEVING OR CONDUIT.

14. INSTALL GREEN (LAWN), BLACK (SHRUB/GC/MULCD) PLASTIC VALVE BOXES WITH BOLT DOWN, NON HINGED COVER MARKED "IRRIGATION". BOX BODY SHALL HAVE KNOCK OUTS. ACCEPTABLE VALVE BOX MANUFACTURER'S INCLUDE NDS, CARSON OR APPROVED EQUAL.

15. INSTALL REMOTE CONTROL VALVE BOXES 12" FROM WALK, CURB, BUILDING OR LANDSCAPE FEATURE. AT MULTIPLE VALVE BOX GROUPS, INSTALL EACH BOX AN EQUAL DISTANCE FROM THE WALK, CURB, BUILDING OR LANDSCAPE FEATURE AND PROVIDE 12" BETWEEN BOX TOPS. ALIGN THE SHORT SIDE OF RECTANGULAR VALVE BOXES PARALLEL TO WALK, CURB, BUILDING OR LANDSCAPE FEATURE.

16. VALVE LOCATIONS SHOWN ARE DIAGRAMMATIC. INSTALL IN GROUND COVER/SHRUB AREAS (AVOID LAWN AREAS WHERE POSSIBLE).

17. THE REMOTE CONTROL VALVES SPECIFIED ON THE DRAWINGS IS A PRESSURE REDUCING TYPE. SET THE DISCHARGE PRESSURE AS FOLLOWS:

A. SPRAY HEADS=40 PSI
B. ROTARY HEADS=60 PSI
C. DRIP EMITTERS=35 PSI
D. BUBBLERS= 30 PSI

19. INSTALL A GATE VALVE TO ISOLATE EACH REMOTE CONTROL VALVE OR GROUP OF RCV'S LOCATED TOGETHER. GATE VALVE SIZE SHALL BE SAME AS THE LARGEST REMOTE CONTROL VALVE IN MANIFOLD.

20. FLUSH AND ADJUST IRRIGATION OUTLETS AND NOZZLES FOR OPTIMUM PERFORMANCE AND TO PREVENT OVER SPRAY ONTO WALKS, ROADWAYS, AND/OR BUILDINGS. SELECT THE BEST DEGREE OF THE ARC AND RADIUS TO FIT THE EXISTING SITE CONDITIONS AND THROTTLE THE FLOW CONTROL AT EACH VALVE TO OBTAIN THE OPTIMUM OPERATING PRESSURE FOR EACH CONTROL ZONE.

21. SET SPRINKLER HEADS PERPENDICULAR TO FINISH GRADE.

22. LOCATE EMITTER OUTLETS ON UPHILL SIDE OF PLANT OR TREE.

23. LOCATE BUBBLERS ON UPHILL SIDE OF PLANT OR TREE.

24. INSTALL A HUNTER HCV SERIES, KBI CV SERIES, OR APPROVED EQUAL SPRING LOADED CHECK VALVE IN SPRINKLER RISER ASSEMBLIES WHERE LOW OUTLET DRAINAGE WILL CAUSE EROSION AND/OR EXCESS WATER.

25. WHERE IT IS NECESSARY TO EXCAVATE ADJACENT TO EXISTING TREES, USE CAUTION TO AVOID INJURY TO TREES AND TREE ROOTS. EXCAVATE BY HAND IN AREAS WHERE TWO (2) INCH AND LARGER ROOTS OCCUR. BACK FILL TRENCHES ADJACENT TO TREE WITHIN TWENTY-FOUR (24) HOURS. WHERE THIS IS NOT POSSIBLE, SHADE THE SIDE OF THE TRENCH ADJACENT TO THE TREE WITH WET BURLAP OR CANVAS.

26. NOTIFY LOCAL JURISDICTIONS FOR INSPECTION AND TESTING OF INSTALLED BACKFLOW PREVENTION DEVICE.

27. THE IRRIGATION SYSTEM DESIGN IS BASED ON THE MINIMUM OPERATING PRESSURE SHOWN ON THE IRRIGATION DRAWINGS. 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.

28. IRRIGATION DEMAND: REFER TO PLANS.

29. THE EXISTING MAIN LINE SHOWN ON THE DRAWINGS IS DIAGRAMMATIC. VERIFY AND LOCATE EXISTING MAIN LINE IN FIELD. REPORT TO ARCHITECT IN WRITING ANY DEVIATION OF EXISTING MAIN LINE LOCATION FROM THAT SHOWN ON THE DRAWINGS.

30. PIPE SIZING SHOWN ON THE DRAWINGS IS TYPICAL. AS CHANGES IN LAYOUT OCCUR DURING STAKING AND CONSTRUCTION THE SIZE MAY NEED TO BE ADJUSTED ACCORDINGLY.

31. PIPE THREAD SEALANT COMPOUND SHALL BE RECTOR SEAL #5.

32. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR MINOR CHANGES IN THE IRRIGATION LAYOUT DUE TO OBSTRUCTIONS NOT SHOWN ON THE IRRIGATION DRAWINGS SUCH AS LIGHTS, FIRE HYDRANTS, SIGNS, ELECTRICAL ENCLOSURES, ETC.

33. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR CHANGES IN THE IRRIGATION LAYOUT AND VALVE ZONING DUE TO VARIATIONS IN THE EXISTING SITE CONDITIONS SUCH AS EXPOSURE FROM BUILDINGS, TRELLISES, TREES, ETC., AS WELL AS SLOPE AND SOIL CONDITIONS. THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT AND IRRIGATION CONSULTANT OF THE PROPOSED CHANGES PRIOR TO INSTALLATION FOR APPROVAL.

34. THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR ADJUSTING THE IRRIGATION SYSTEM DESIGN IF THE PLANTING DESIGN CHANGES FROM THE ORIGINAL PLAN AND NEEDS TO ADAPT TO THE NEW PLANTING DESIGN. THE LANDSCAPE CONTRACTOR NEEDS TO NOTIFY THE LANDSCAPE ARCHITECT AND IRRIGATION CONSULTANT OF PROPOSED CHANGES PRIOR TO INSTALLATION FOR APPROVAL.

35. WHEN WORK OF THIS SECTION HAS BEEN COMPLETED AND SUCH OTHER TIMES AS MAY BE DIRECTED, REMOVE ALL TRASH, DEBRIS, SURPLUS MATERIALS AND EQUIPMENT FROM SITE.

36. CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPLEMENTAL HAND WATERING OF ALL PLANT MATERIAL WITHIN DRIPLINE AREAS UNTIL THE PLANTS ARE SUFFICIENTLY ESTABLISHED.

NOTE:
INSTALL IRRIGATION SYSTEM PER STANFORD UNIVERSITY FACILITIES DESIGN GUIDELINES AND SPECIFICATIONS;
HTTP://MAPS.STANFORD.EDU/FDG_AVAILABLE
1. TREE AND SHRUB PROTECTION (#01532)
2. TRENCHING, BACKFILLING & COMPACTING (#02321)
3. LANDSCAPE IRRIGATION (#02810)

WELO CALCULATIONS (FUTURE SUBMITTAL)

WATER TYPE	POTABLE
SITE ETO=	43.4
	4/29/2019

REGULAR LANDSCAPE AREAS

HYDROZONE #	HYDROZONE NAME	PLANT WATER USE TYPE	PLANT FACTOR (PF)	IRRIGATION METHOD	IRRIGATION EFFICIENCY	ETAF (PF/IE)	AREA (SQ. FT) (HA)	ETAF X AREA (HA)	ETWU (GAL/YR)	ACRE FEET/ YEAR	HCF/ YEAR	PERCENTAGE OF LANDSCAPE
C-1	GROUNDCOVER/SUCCULENT	LOW	0.3	DRIP	0.81	0.370	5,348	1,981	53,298	0.16	71.25	89%
C-2	HEDGE PLANTING	MOD	0.5	DRIP	0.81	0.617	379	234	6,295	0.02	8.42	6%
C-3	VINES	MOD	0.5	DRIP	0.81	0.617	37	23	615	0.00	0.82	1%
C-4	TREES	LOW	0.3	BUBBLER	0.81	0.370	250	93	2,491	0.01	3.33	4%
					TOTALS		6,014	2,330	62,699	0.19	83.82	100%

SPECIAL LANDSCAPE AREAS

HYDROZONE #	HYDROZONE NAME											
					1							0%
					TOTALS							0%

MAWA		
MAWA	GALLONS/YR	72,821
	ACRE FEET/YR	0.22
	HCF/YR	97.35

ETWU		
ETWU	GALLONS/YR	62,699
	ACRE FEET/YR	0.19
	HCF/YR	83.82

SITE IRRIGATION EFFICIENCY	SITE PLANT FACTOR	MAWA COMPLIANT
81.0%	0.31	YES

MAWA FORMULA
MAXIMUM APPLIED WATER ALLOWANCE (MAWA) GALLONS PER YEAR
MAWA = (ETo)(0.62)[(LA x 0.45) + (0.55 x SLA)]

ETo = REFERENCE EVAPOTRANSPIRATION
0.55= ET ADJUSTMENT FACTOR
LA=LANDSCAPED AREA (SQUARE FEET)
0.62 = CONVERSION FACTOR (GALLONS/SQ.FT/YR)

ETWU FORMULA
ESTIMATED TOTAL WATER USE (ETWU) GALLONS PER YEAR
ETWU= ((ETO)(.62)(ETAF x LA))

ETo = REFERENCE EVAPOTRANSPIRATION
PF = PLANT FACTOR FOR HYDROZONES
HA = HYDROZONE AREA (SQ.FT)
0.62 = CONVERSION FACTOR (GALLONS/SQ.FT/YR)

IE = IRRIGATION EFFICIENCY (0.81)-BUBBLER/DRIP
IE = IRRIGATION EFFICIENCY (0.75)-ROTORS/SPRAY

ETAF Calculations	
REGULAR LANDSCAPE AREAS	
TOTAL ETAF x AREA	2,330
TOTAL AREA	6,014
AVG. ETAF	38.74%

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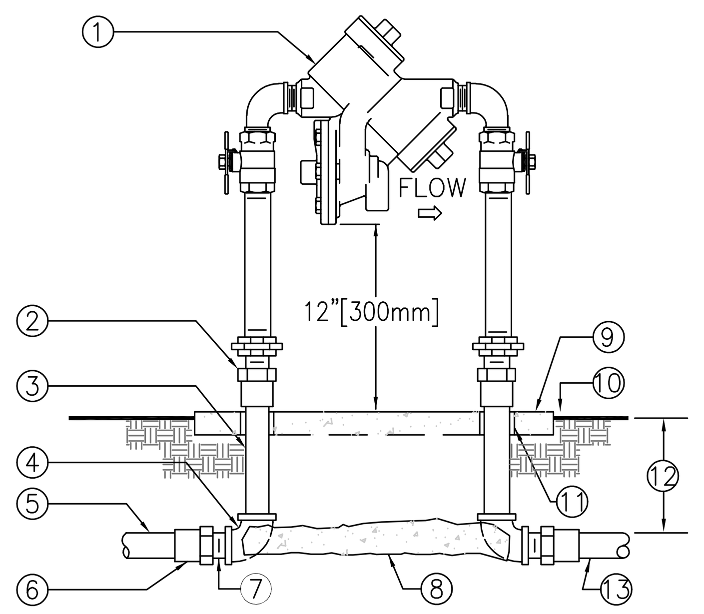
IRRIGATION NOTES AND WELO CALCULATIONS

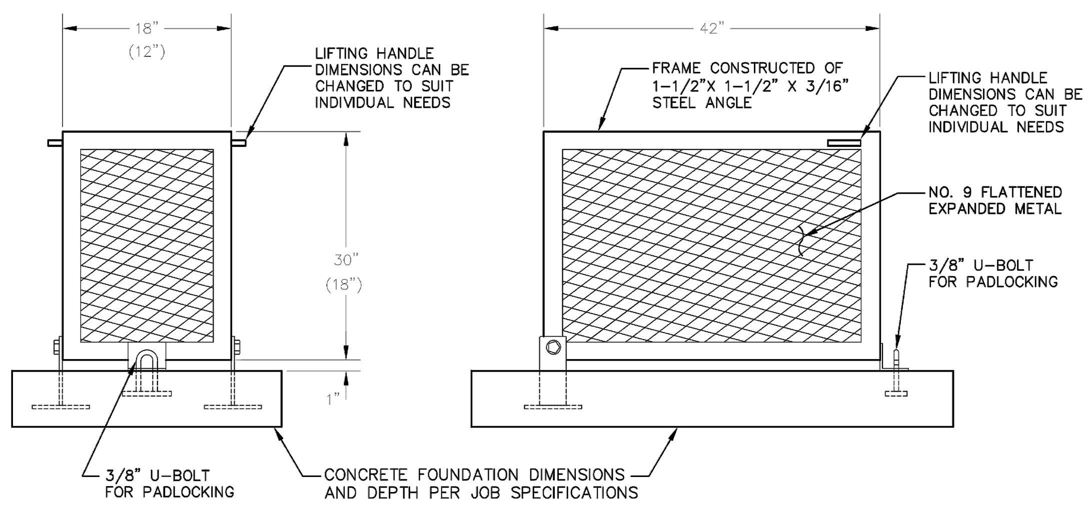
L3.3



1. REDUCED PRESSURE BACKFLOW ASSEMBLY.
2. WROUGHT COPPER MALE ADAPTER–2 TOTAL (SOLDER x THREAD CONNECTION).
3. COPPER TYPE "K" PIPE (LENGTH AS REQUIRED).
4. WROUGHT COPPER 90° ELBOW–2 TOTAL (SOLDER x THREAD CONNECTION).
5. PVC MAIN LINE TO POINT OF CONNECTION.
6. BUSH AS NECESSARY FOR SIZE TRANSITION.
7. SCHEDULE 40 PVC MALE ADAPTER–2 TOTAL.
8. CONCRETE SUPPORT BLOCK.
9. CONCRETE PAD–SEE ENCLOSURE DETAIL.
10. FINISH GRADE.
11. PVC SLEEVE BOTH SIDES.
12. REFER TO IRRIGATION LEGEND.
13. PVC MAIN LINE TO IRRIGATION SYSTEM.

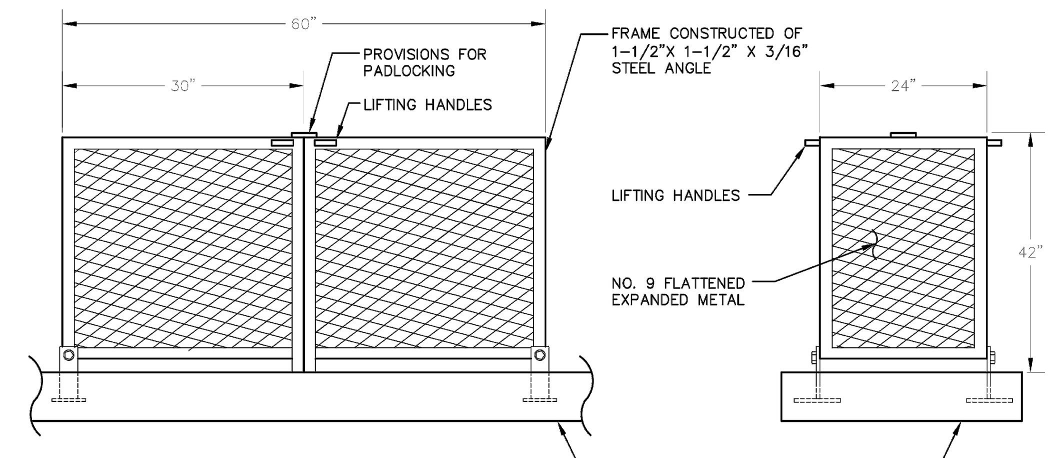
NOTES:
1. INSTALL A FREEZE PREVENTATIVE BLANKET AROUND BACKFLOW ASSEMBLY. BLANKET SHALL BE GREEN.
2. DO NOT SOLDER CONNECT FITTINGS WHILE THREADED INTO BACKFLOW ASSEMBLY. THIS MAY CAUSE DAMAGE TO DEVICE.
3. NIPPLES AND FITTINGS TO BE SAME IPT SIZE AS BACKFLOW ASSEMBLY.
4. PROVIDE A STAINLESS STEEL ENCLOSURE TO COMPLETELY ENCLOSE DEVICE. INSTALL ENCLOSURE TO CONCRETE BASE AS DIRECTED BY MANUFACTURER.

1	REDUCED PRESSURE BACKFLOW ASSEMBLY
	SCALE: NONE



NOTES:
1. ENCLOSURE TO BE POWDER COATED, BLACK

BACKFLOW PREVENTER ENCLOSURE
LE MEUR MANUFACTURING
MODEL LBF-99

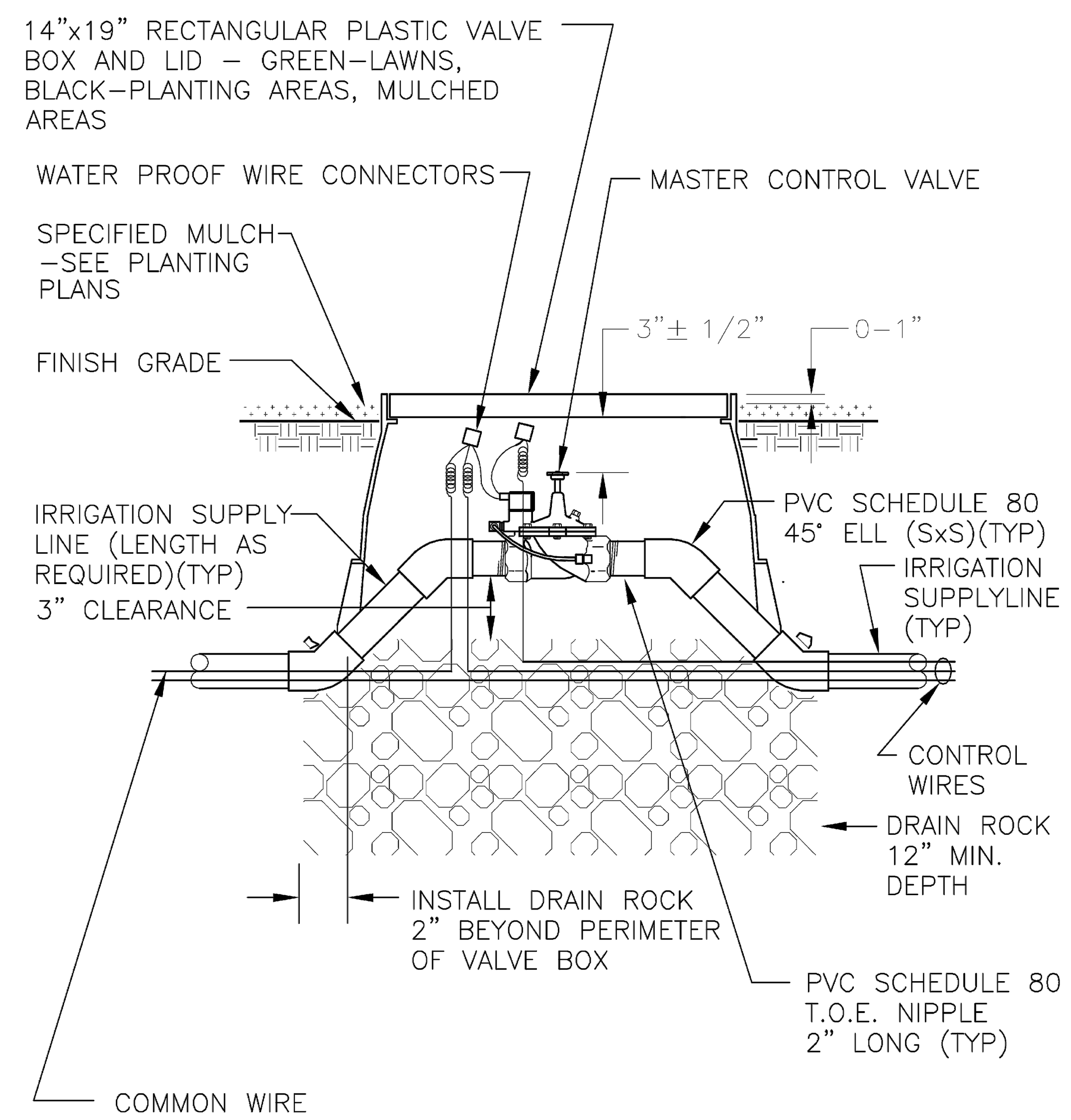


NOTES:
1. ENCLOSURE TO BE POWDER COATED, BLACK

BACKFLOW PREVENTER ENCLOSURE
LE MEUR MANUFACTURING (TWO PIECE)
FOR AMIAD SELF-FLUSHING FILTER

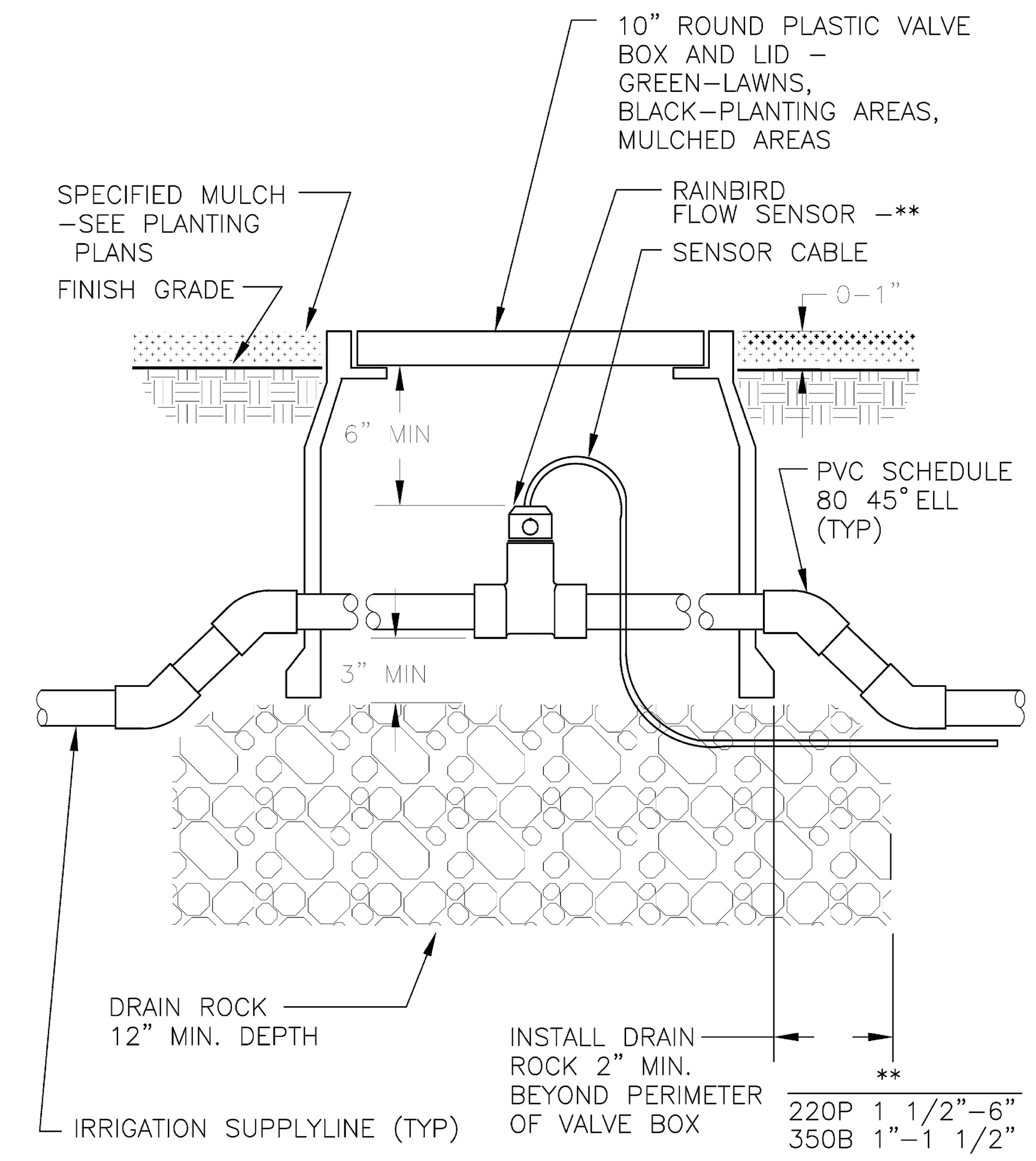
STANFORD UNIVERSITY FACILITY OPERATIONS				DWG.
Drawing Title: BACKFLOW PREVENTION DEVICE ENCLOSURE INSTALLATION				IR-28
Scale: NTS	Check:	Rev. By: OG	Rev. Date: 01/06/09	

NOTE: SET TOP OF BOX FLUSH WITH FINISH GRADE IN TURF AREAS.



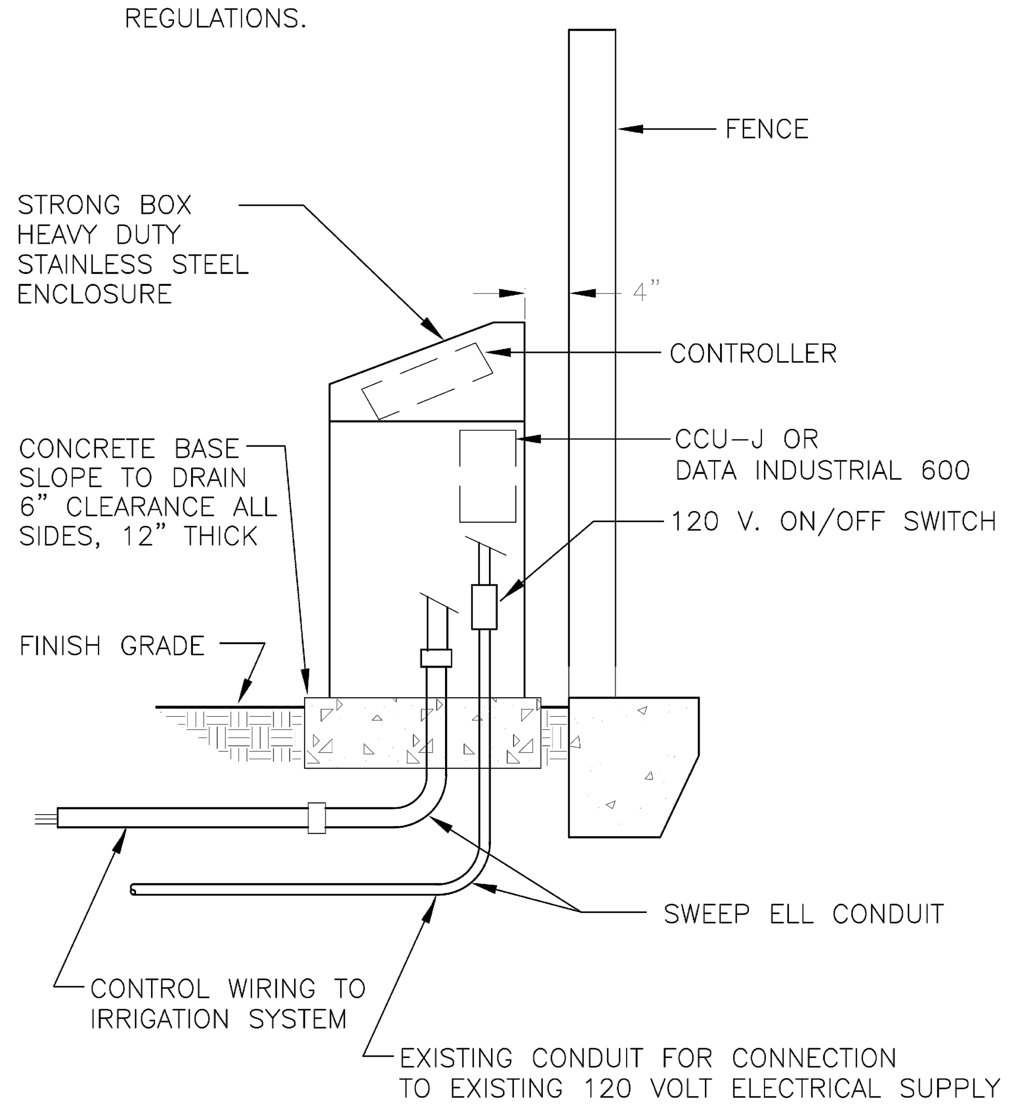
STANFORD UNIVERSITY FACILITY OPERATIONS				DWG.
Drawing Title: MASTER CONTROL VALVE INSTALLATION				IR-03
Scale: NTS	Check:	Rev. By: O.G	Rev. Date: 01/08/09	

NOTE:
1. SET TOP OF BOX EVEN WITH FINISH GRADE IN TURF AREAS.
2. ALLOW 10 PIPE DIAMETERS UPSTREAM AND 5 PIPE DIAMETERS DOWNSTREAM FROM SENSOR OF STRAIGHT UNOBSTRUCTED PIPE TO ENSURE PROPER FLOW READING.



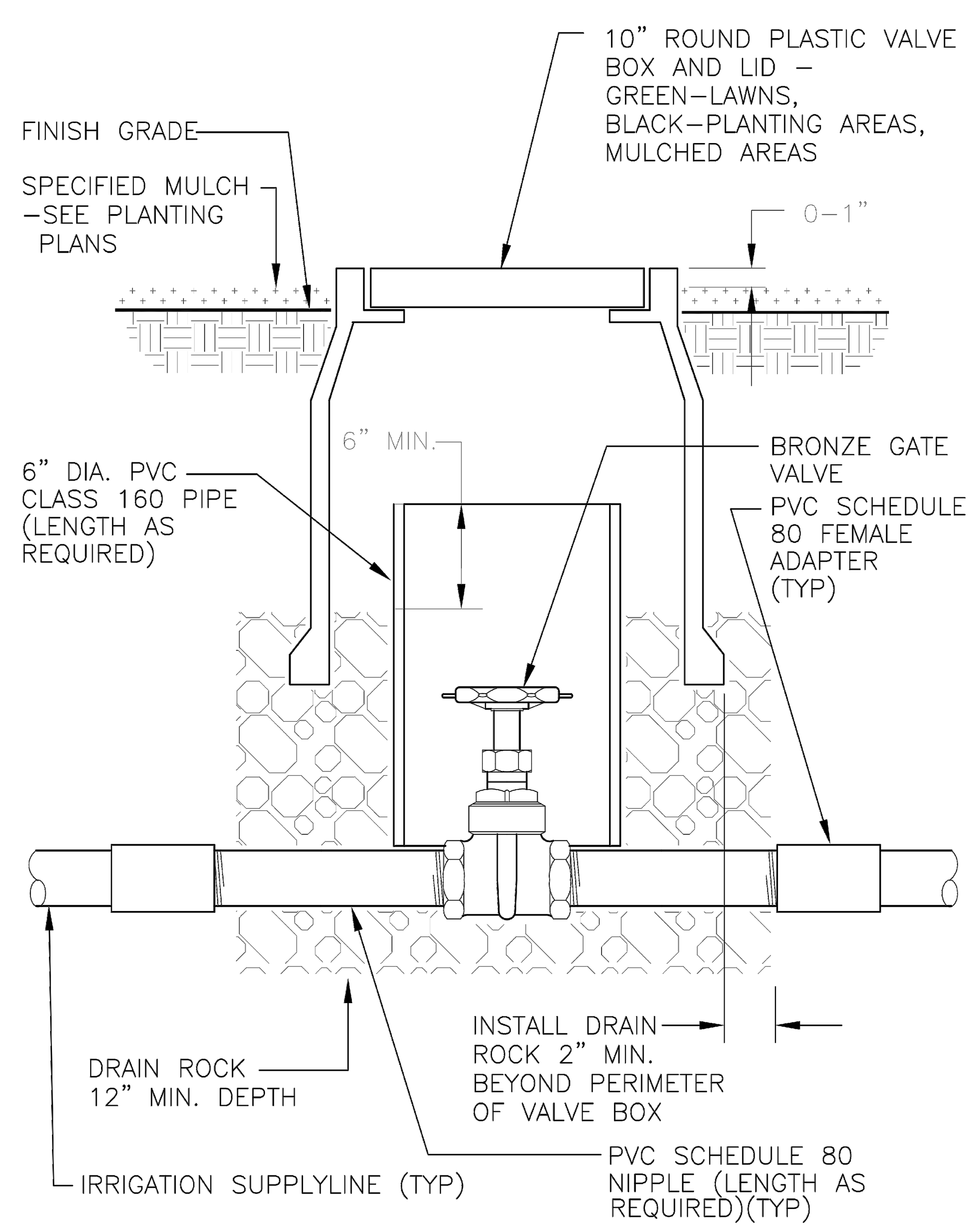
STANFORD UNIVERSITY FACILITY OPERATIONS				DWG.
Drawing Title: FLOW SENSOR INSTALLATION				IR-05
Scale: NTS	Check:	Rev. By: O.G.	Rev. Date: 01/08/09	

NOTE: CONTROLLER TO BE PROPERLY GROUNDED PER ARTICAL 250 OF THE NATIONAL ELECTRIC CODE AND CONFORM TO LOCAL REGULATIONS.



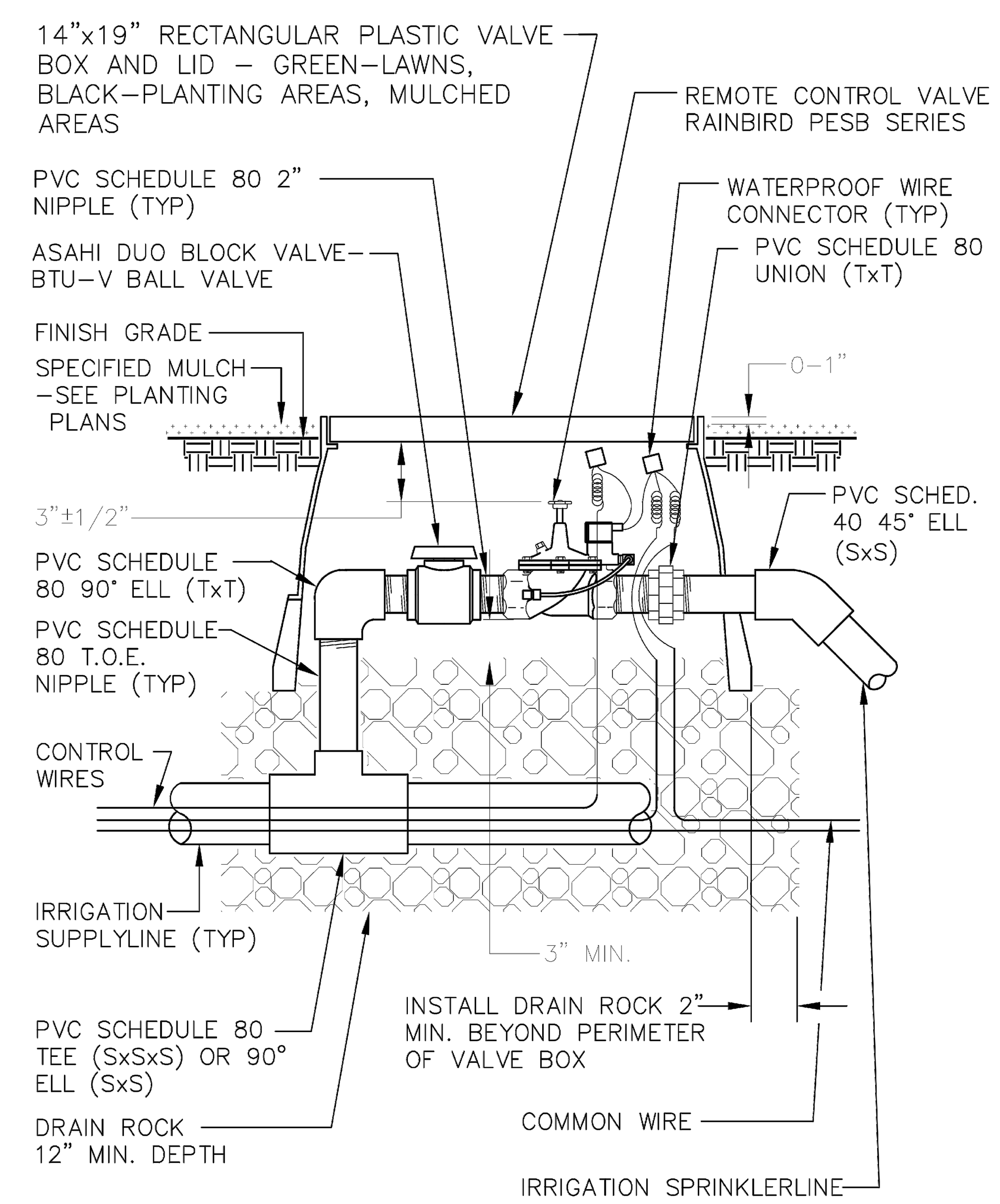
STANFORD UNIVERSITY FACILITY OPERATIONS				DWG.
Drawing Title: PEDESTAL MOUNT CONTROLLER INSTALLATION				IR-08
Scale: NTS	Check:	Rev. By: O.G.	Rev. Date: 01/08/09	

NOTE: SET TOP OF BOX EVEN WITH FINISH GRADE IN TURF AREAS.



STANFORD UNIVERSITY FACILITY OPERATIONS				DWG.
Drawing Title: 2 1/2" AND SMALLER GATE VALVE INSTALLATION				IR-14
Scale: NTS	Check:	Rev. By: O.G.	Rev. Date: 01/08/09	

NOTE: SET TOP OF BOX FLUSH WITH FINISH GRADE IN TURF AREAS.



STANFORD UNIVERSITY FACILITY OPERATIONS				DWG.
Drawing Title: REMOTE CONTROL VALVE INSTALLATION				IR-12
Scale: NTS	Check:	Rev. By: O.G.	Rev. Date: 01/07/09	

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date 06/03/2020

revisions:

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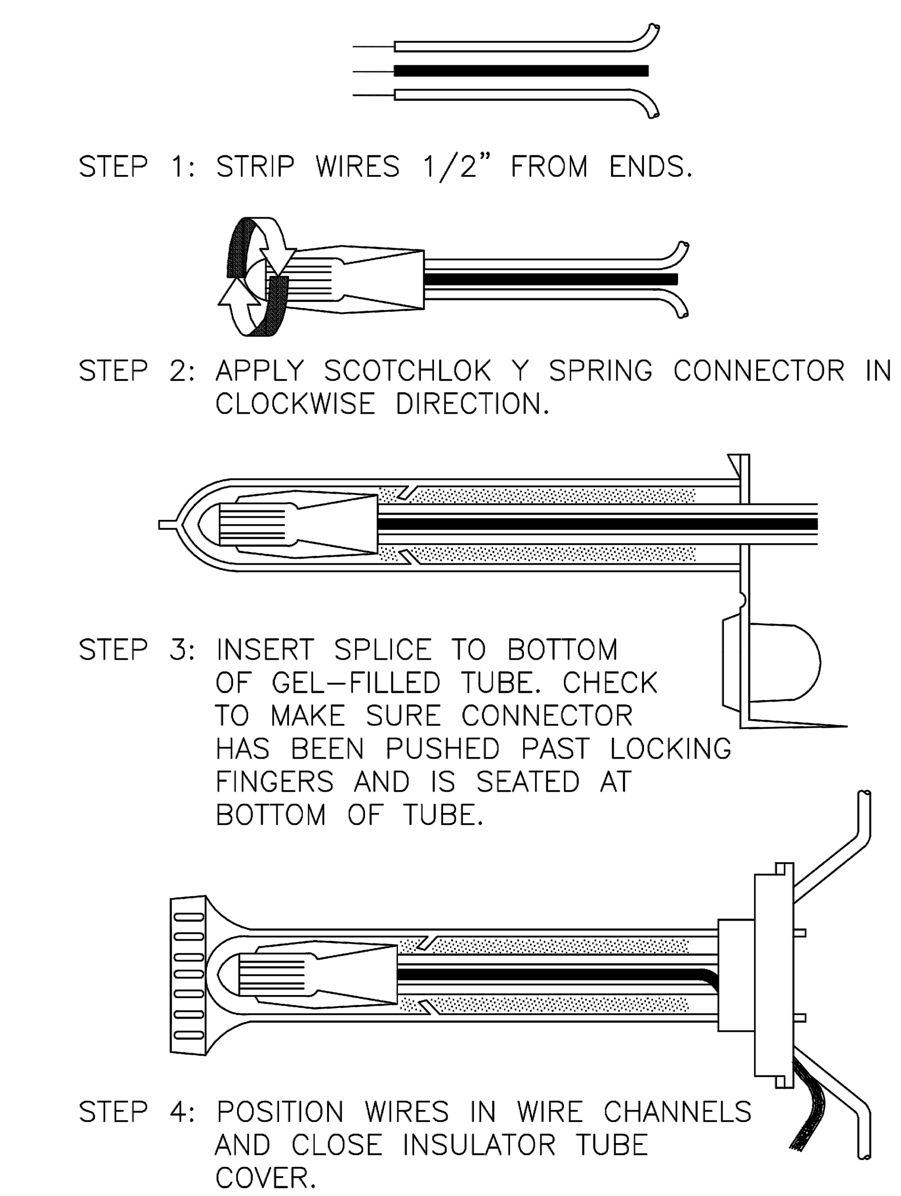
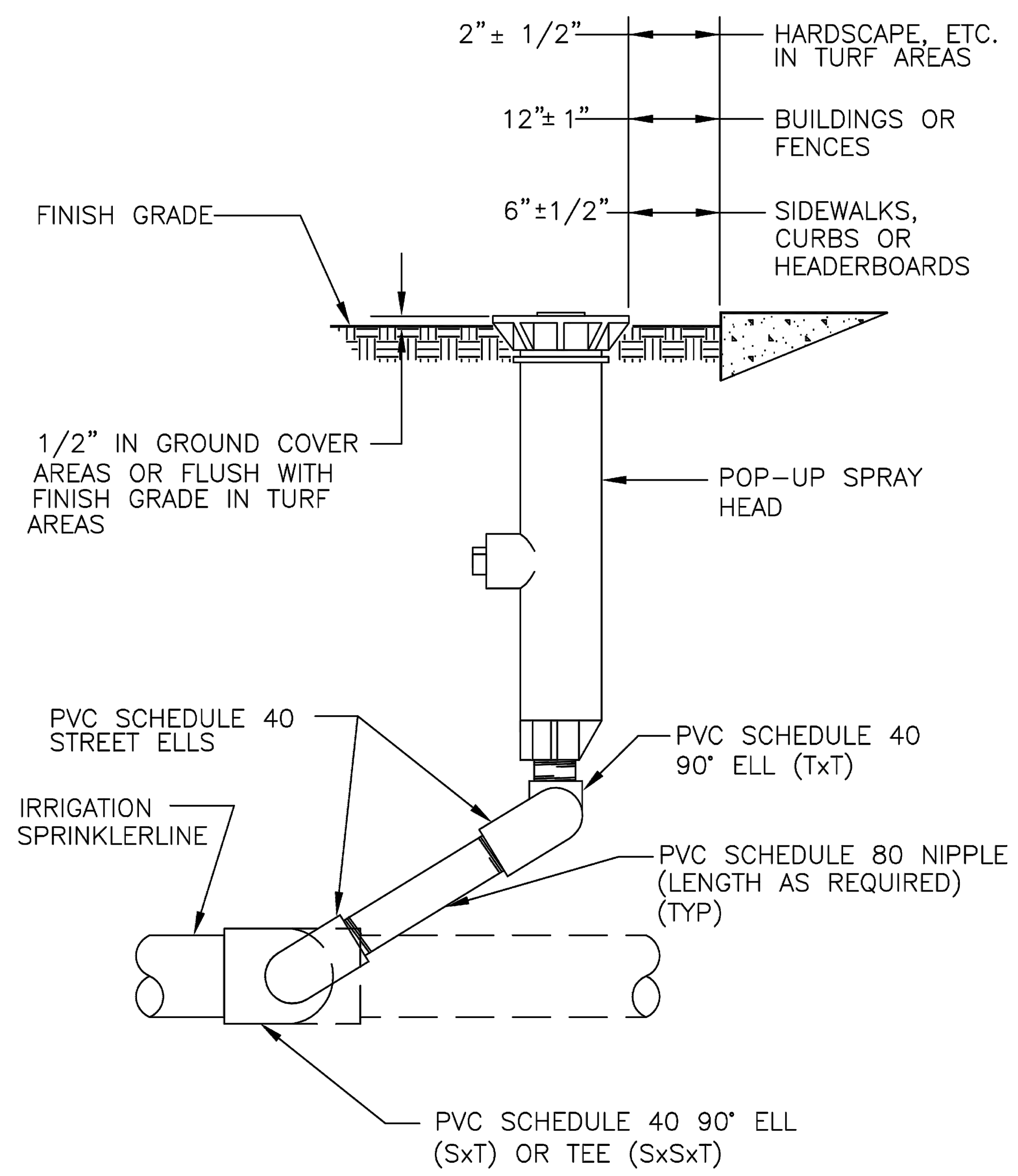
IRRIGATION DETAILS

L3.4

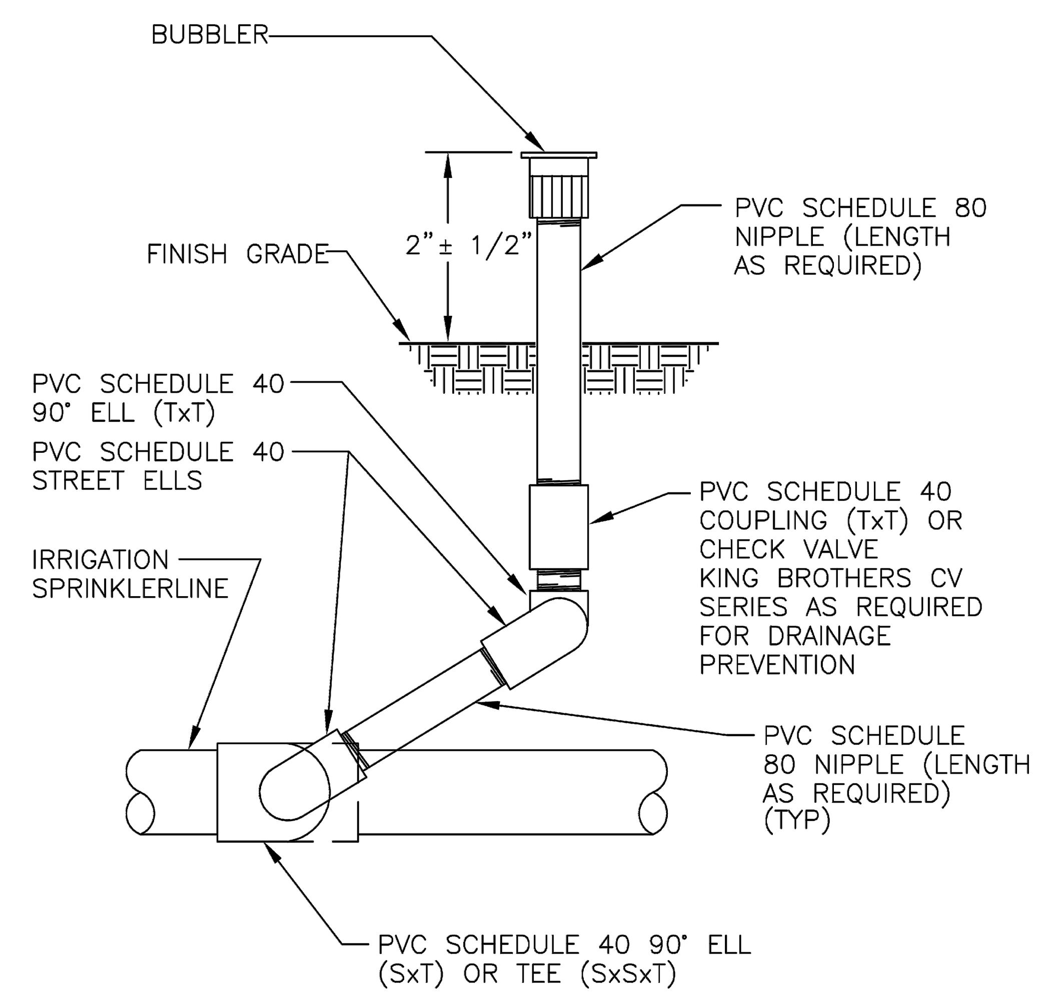
NOTE: MAXIMUM WIRE SIZES PER CONNECTOR ARE 3 – #14'S OR 2 – #12'S.



STANFORD UNIVERSITY FACILITY OPERATIONS				DWG.
Drawing Title: 3M DBY DIRECT BURY WIRE				IR–11
Scale: NTS	Check:	Rev. By: I.S.C.	Rev. Date: 06/20/95	

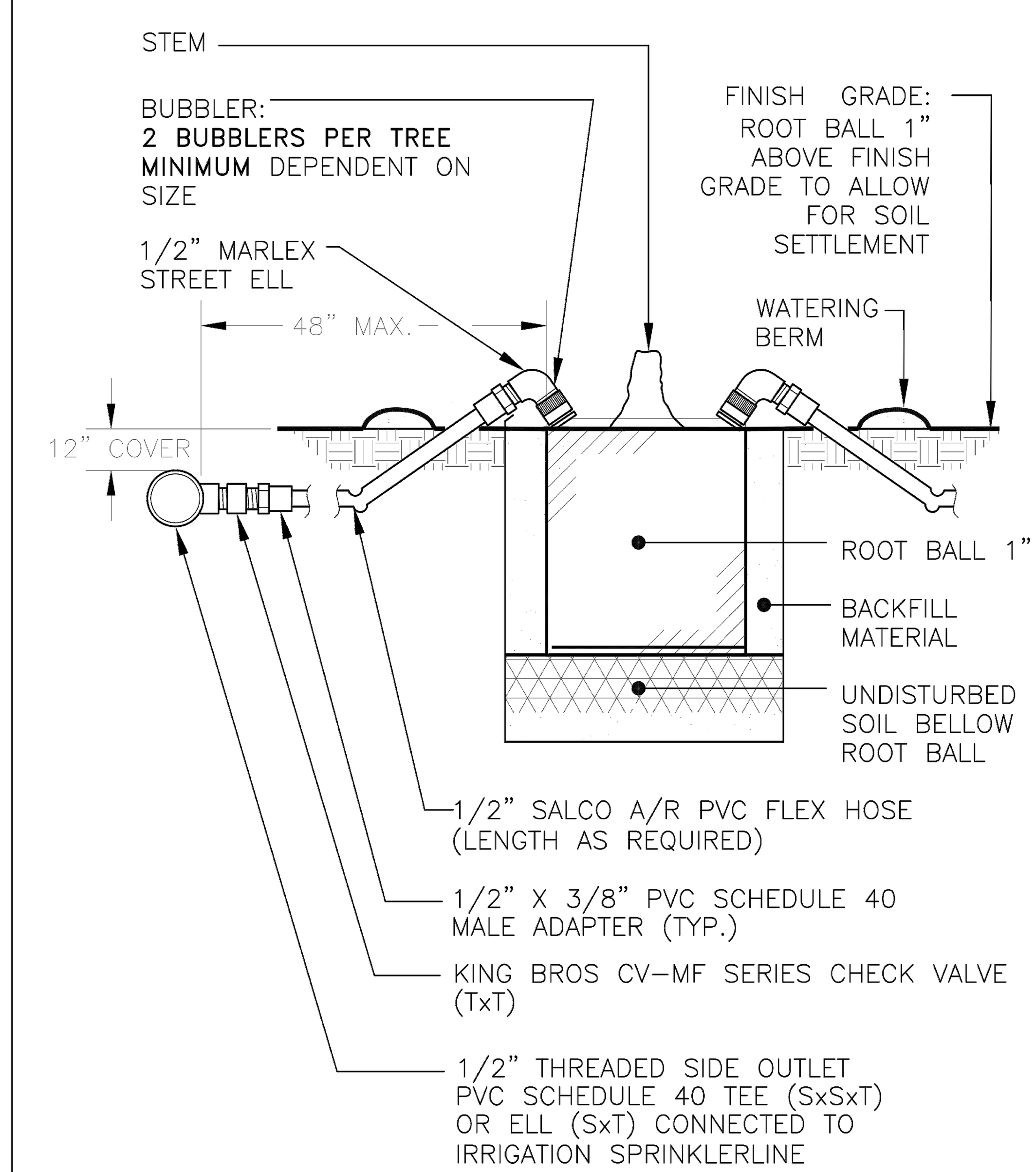


STANFORD UNIVERSITY FACILITY OPERATIONS				DWG.
Drawing Title: POP–UP SPRAY HEAD RISER ASSEMBLY				IR–18
Scale: NTS	Check:	Rev. By: I.S.C.	Rev. Date: 06/20/95	



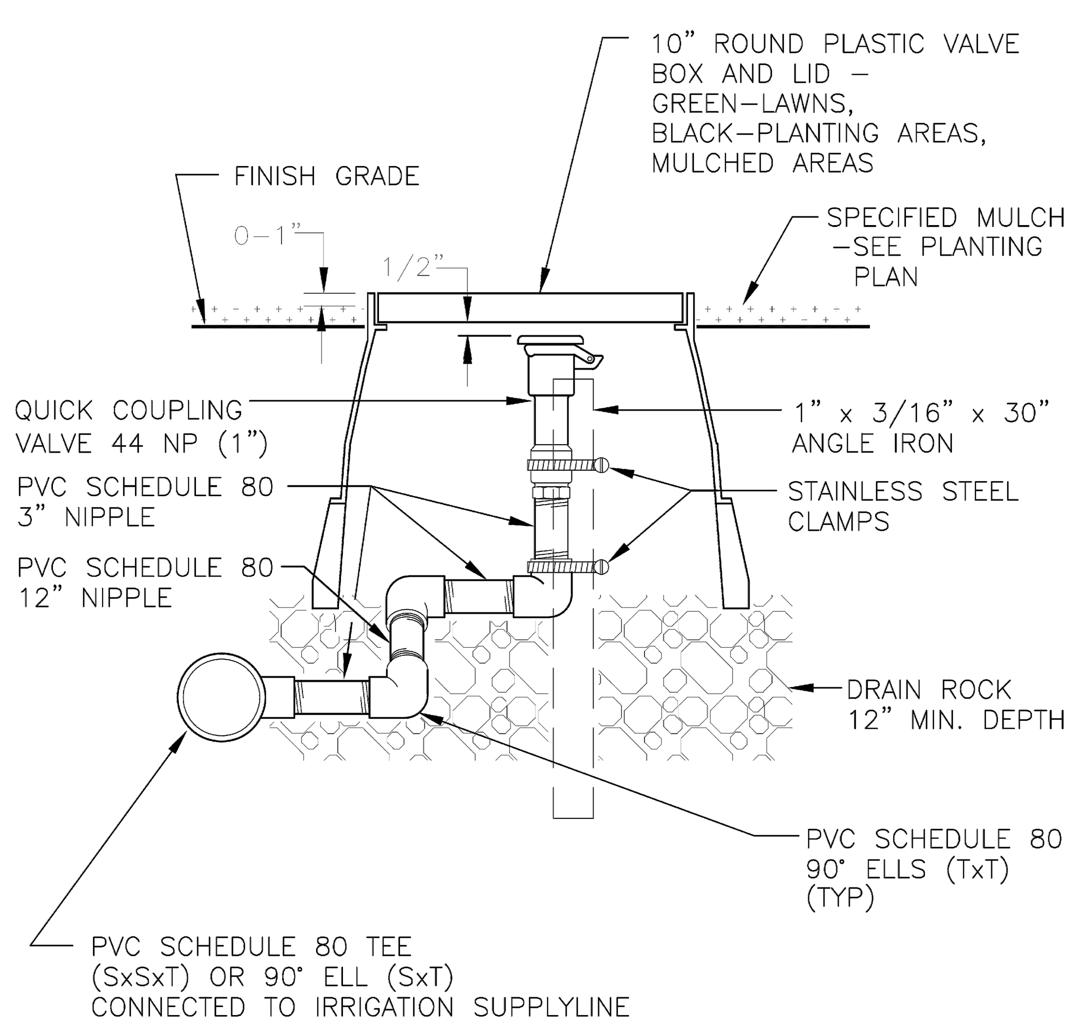
STANFORD UNIVERSITY FACILITY OPERATIONS				DWG.
Drawing Title: BUBBLER RISER ASSEMBLY				IR–23
Scale: NTS	Check:	Rev. By: I.S.C.	Rev. Date: 06/20/95	

NOTE: INSTALL BUBBLER ABOVE ROOT BALL. INSTALL BUBBLER ON UPHILL SIDE OF PLANT WHERE APPLICABLE.



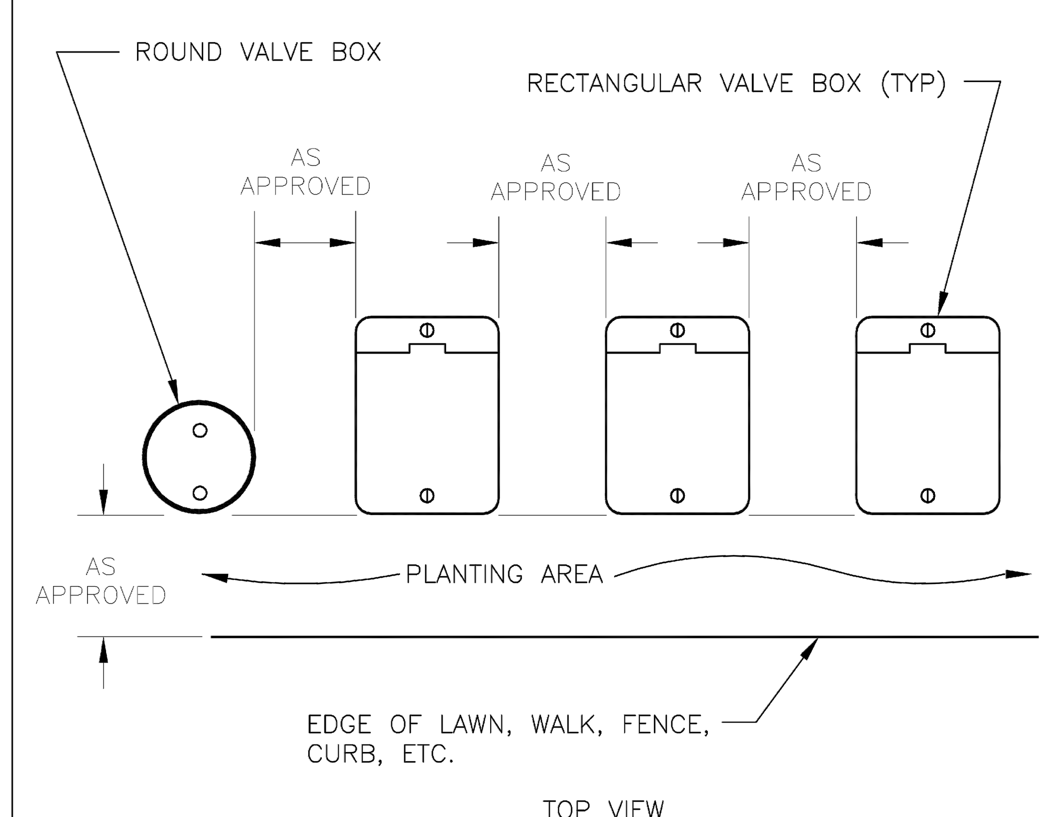
STANFORD UNIVERSITY FACILITY OPERATIONS				DWG.
Drawing Title: BUBBLER FOR TREES IN GROUND COVER AREAS				IR–22
Scale: NTS	Check:	Rev. By: O.G.	Rev. Date: 01/09/09	

NOTE: SET TOP OF BOX EVEN WITH FINISH GRADE IN TURF AREAS.



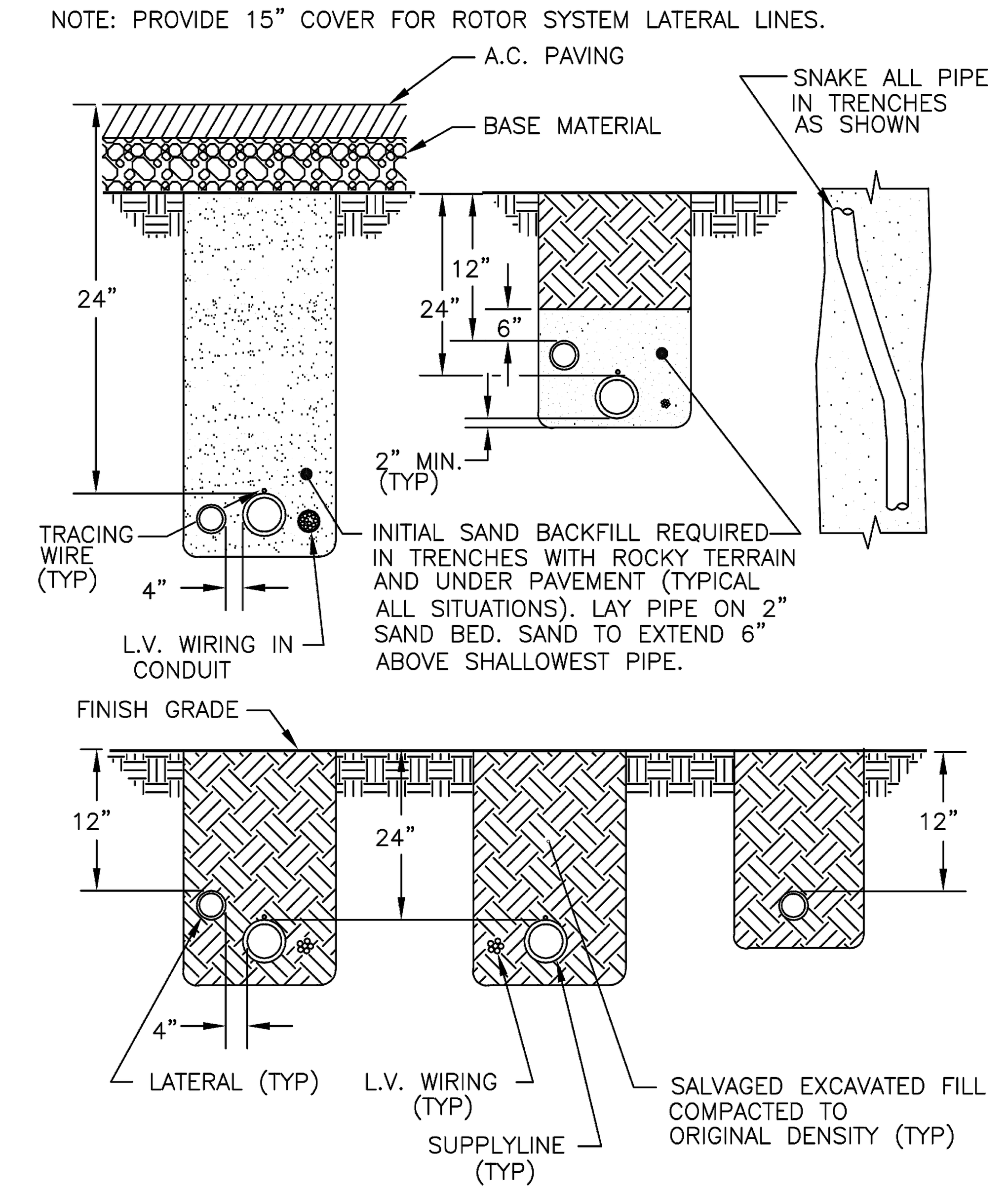
STANFORD UNIVERSITY FACILITY OPERATIONS				DWG.
Drawing Title: QUICK COUPLING VALVE INSTALLATION				IR–13
Scale: NTS	Check:	Rev. By: O.G.	Rev. Date: 01/08/09	

NOTES:
1. CENTER BOXES OVER VALVES.
2. SET BOXES IN GROUND COVER/SHRUB AREA WHERE POSSIBLE.
3. SET BOXES PARALLEL TO EACH OTHER, LEVEL AND PERPENDICULAR TO EDGE.
4. AVOID HEAVILY COMPACTING SOIL AROUND BOXES TO PREVENT DAMAGING VALVE BOXES.
5. LOCATE ON SIDE PATHS OR SERVICE AREAS, NOT ALONG MAIN WALKWAYS OR ENTRIES. UA/CPD AND GROUNDS TO APPROVE FINAL LOCATIONS BEFORE SYSTEM DESIGN IS FINALIZED.



STANFORD UNIVERSITY FACILITY OPERATIONS				DWG.
Drawing Title: VALVE BOX INSTALLATION				IR–06
Scale: NTS	Check: MAX PENINO	Rev. By: OG	Rev. Date: 05/07/10	

NOTE: PROVIDE 15" COVER FOR ROTOR SYSTEM LATERAL LINES.



STANFORD UNIVERSITY FACILITY OPERATIONS				DWG.
Drawing Title: TRENCHING				IR–01
Scale: NTS	Check:	Rev. By: I.S.C.	Rev. Date: 06/20/95	

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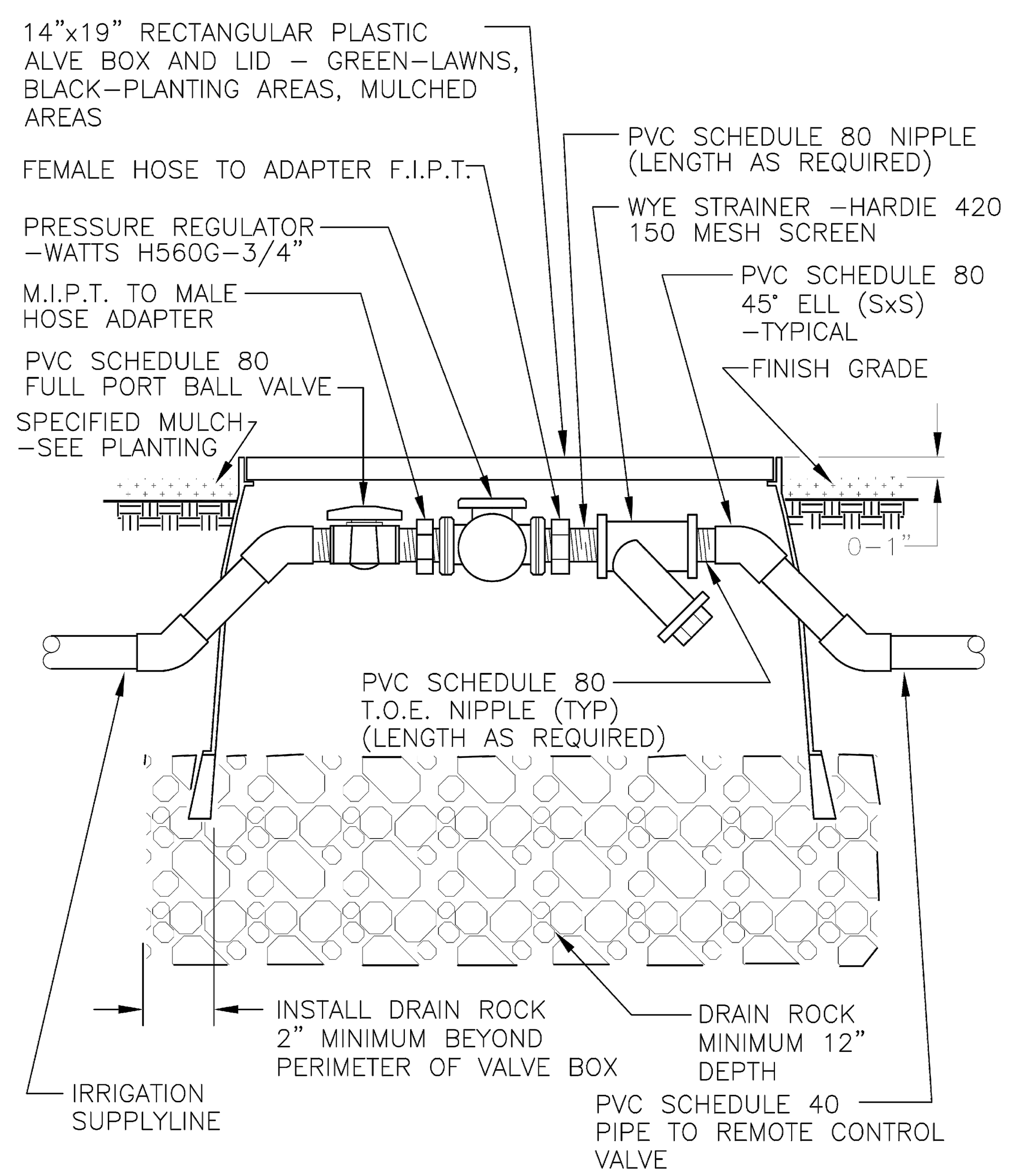
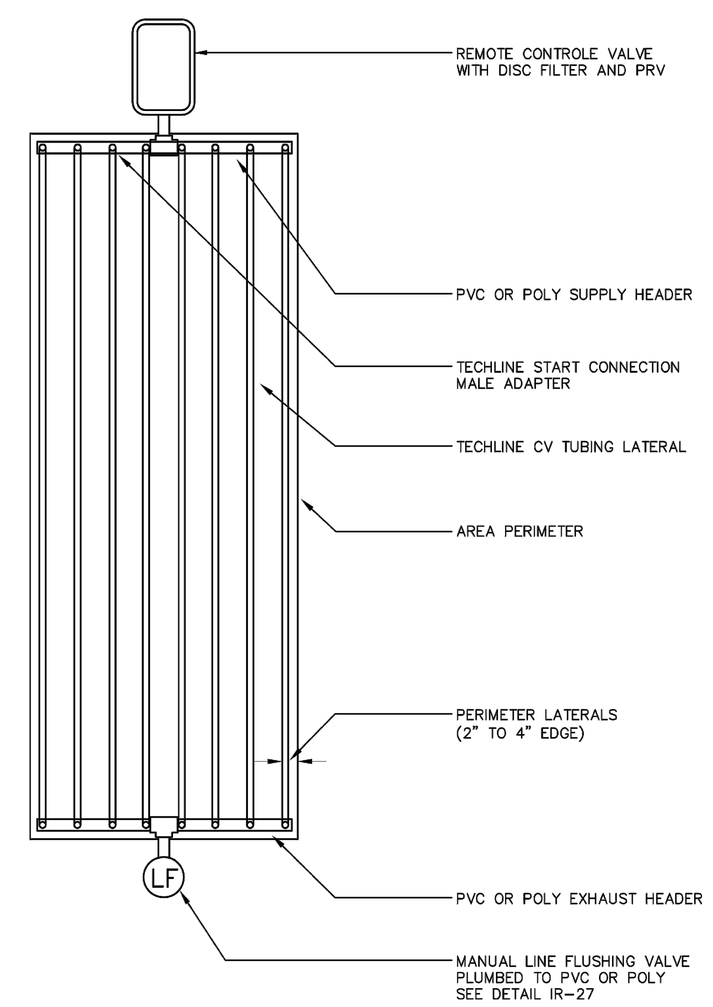
IRRIGATION DETAILS

L3.5

NOTE: 1. PLACE WYE STRAINER TO ONE SIDE OF BOX FOR MAINTENANCE.
2. ROTATE WYE STRAINER 30 DOWNWARD FROM HORIZONTAL.
3. ROTATE REGULATOR SO GAUGE CAN BE READ FROM TOP.



STANFORD UNIVERSITY FACILITY OPERATIONS | DWG.
Drawing Title: DRIP CONTROL ASSEMBLY INSTALLATION | IR–25
Scale: NTS | Check: | Rev. By: O.G. | Rev. Date: 01/08/09



SUB SURFACE DRIP IRRIGATION FOR SHRUB PLANTING – END FEED LAYOUT

STANFORD UNIVERSITY FACILITY OPERATIONS | DWG.
Drawing Title: SUB SURFACE DRIP IRR. FOR SHRUB PLANTING – END FEED | IR–33
Scale: NTS | Check: | Rev. By: OG | Rev. Date: 01/06/09

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IRRIGATION DETAILS

L3.6

STANFORD UNIVERSITY TREE AND SHRUB PROTECTION GUIDELINES

1. WE HAVE STRICT REQUIREMENTS WHICH INCLUDE THE POINTS LISTED BELOW AND ADDITIONAL PROCEDURES AS DETAILED IN THE FDG SPECIFICATIONS GUIDELINE 01 56 39 TREE AND SHRUB PROTECTION.
2. THE ROOT ZONE OF ALL TREES MUST BE PROTECTED ON ALL CONSTRUCTION PROJECTS, AS DESCRIBED BELOW. A TREE'S ROOT ZONE IS DEFINED AS THE AREA FROM THE TRUNK OUT TO 10' BEYOND THE DRIPLINE.
3. A STANFORD GROUNDS SERVICES CERTIFIED ARBORIST SHALL BE CONTACTED TO EVALUATE ALL WORK WITHIN ANY TREES ROOT ZONES.
4. ALL TREES TO REMAIN ON A PROJECT SHALL HAVE PROTECTIVE FENCING INSTALLED PER THE TREE PROTECTION DRAWING INCLUDED IN THE PLAN SET.
5. PROTECTIVE FENCING SHALL BE CHAIN LINK ON SECURE FOOTINGS, OR IMBEDDED AS REQUIRED BY THE CAMPUS PLANNING AND DESIGN OFFICE OR STANFORD GROUNDS SERVICES CERTIFIED ARBORIST, THAT WILL NOT FALL OVER ONTO TREES.
6. PROTECTIVE FENCING SHALL BE PLACED AT THE OUTER EDGE OF THE ROOT ZONE, 10' BEYOND THE TREE DRIPLINE WHEREVER POSSIBLE AS SHOWN ON TREE PROTECTION DRAWING. 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.
7. 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.
8. CONSTRUCTION MATERIALS/EQUIPMENT/PERSONAL VEHICLES SHALL NOT BE STORED, PARKED OR TEMPORARILY PLACED IN THE ROOT ZONE 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.
9. 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.
10. THERE SHALL BE NO GRADE CHANGE WITHIN A MINIMUM OF TEN FEET OF THE TRUNK OF EXISTING TREES, AND PREFERABLY NONE WITHIN THE ENTIRE ROOT ZONE. NATIVE OAKS ARE PARTICULARLY SENSITIVE TO GRADE CHANGES.
11. NO RINSING, CLEANING EQUIPMENT OR DUMPING CONSTRUCTION LIQUID MATERIALS SHALL BE ALLOWED IN THE TREE 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.
12. EXISTING TREES SHALL BE MONITORED WEEKLY AND IRRIGATED AS NEEDED DURING THE COURSE OF CONSTRUCTION.
13. NO LIME OR OTHER SOIL TREATMENT SHALL BE APPLIED WITHOUT THE CONSENT OF A STANFORD GROUNDS SERVICES CERTIFIED ARBORIST.
14. ALL TRENCHING SHALL CONFORM TO THE FOLLOWING GUIDELINES.
    A. 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 SGSCA.
    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.

TREE NOTES

1. CONTRACTOR SHALL TAG ALL TREES TO BE REMOVED, RELOCATED AND PROTECTED. CONTRACTOR SHALL REVIEW ALL TREES WITH THE OWNER AND THE LANDSCAPE ARCHITECT PRIOR TO REMOVAL & RELOCATION.
2. PLEASE CONTACT A STANFORD ARBORIST TO BE PRESENT FOR NECESSARY ROOT EXCAVATION, DURING THE REMOVAL OF EXISTING PARKING LOT, CURB-PERIMETERS, SIDEWALKS AND OR AGGREGATE PATHWAYS, WHERE ANY TRENCHING MAY SEVER TREE ROOTS. THERE ARE MANY ESTABLISHED TREES IN NARROW PLANTING AREAS AND THESE TREE ROOTS HAVE GROWN NEXT TO OR UNDER SUCH CONCRETE, AGGREGATE WALK WAYS, AND PAST CURBS AND INTO THE PARKING LOT PERIMETERS. STANFORD ARBORIST'S ARE REQUIRED TO OVERSEE CONSTRUCTION WORK THAT IS DONE UNDER TREES, INCLUDING ROOT PRUNING.
3. THIS IS A LIST OF STANFORD UNIVERSITY ARBORISTS:
   MICHAEL GLADDEN (650) 313-9436 MGLADDEN@STANFORD.EDU
4. ALL EXISTING LANDSCAPED AREA AND IRRIGATION ARE TO BE RESTORED AND OPERATIONAL WITH PRIOR APPROVAL OF THE STANFORD UNIVERSITY ARCHITECT AND PLANNING OFFICE AND STANFORD GROUNDS SERVICES.
5. ONLY HAND EXCAVATION IS TO BE DONE FOR GRUBBING UNDERNEATH THE CANOPIES OR WITHIN ANY PROTECTED EXISTING TREES' ROOTZONE. FOLLOW ALL STANFORD UNIVERSITY TREE AND SHRUB PROTECTION GUIDELINES (AS SHOWN ABOVE) AND REFER TO THE FDG DOCUMENTATION.
6. COORDINATE WITH STANFORD ARBORIST PRIOR TO BEGINNING CONSTRUCTION IF PRUNING TO EXISTING TREES WILL BE NECESSARY IN ORDER TO COMPLETE THE REQUIRED WORK.

PLANTING AND IRRIGATION NOTES

1. ALL EXISTING LANDSCAPED AREAS AND IRRIGATION IN THE AREA THAT MAY HAVE BEEN IMPACTED ARE TO BE RESTORED AND OPERATIONAL WITH PRIOR APPROVAL OF THE STANFORD UNIVERSITY ARCHITECT AND PLANNING OFFICE AND STANFORD GROUNDS SERVICES.
2. EXISTING WIRING, CONTROLLER AND POINT OF CONNECTION TO BE REUSED FOR THIS PROJECT. NEW OR REPLACED EQUIPMENT SHOULD BE REPLACED IN ACCORDANCE WITH FDG GUIDELINES.
3. IRRIGATION DRAWINGS AND DETAILS ARE NOT BEING PROVIDED FOR THIS PROJECT. CONTRACTOR TO PROVIDE A SUBMITTAL TO STANFORD GROUNDS SERVICES FOR REVIEW FOR ALL PROPOSED EQUIPMENT USED TO RESTORE EXISTING SYSTEM. PROPOSED EQUIPMENT, DOCUMENTATION AND DETAIL DRAWINGS CAN BE FOUND AT THE STANFORD FDG GUIDELINES.
   HTTP://MAPS.STANFORD.EDU/SITES/ALL/LBRE-SHARED/FILES/DOCS_PUBLIC/LANDSCAPING_DESIGN_GUIDELINES.PDF AND HTTP://MAPS.STANFORD.EDU/FDG_VIEW_DRAWINGS
4. SPECIFY THAT ONLY RAIN BIRD IRRIGATION PARTS ARE UTILIZED. INCLUDE ADDITIONAL NOTE: ALL COPIES OF IRRIGATION INVOICES FOR ANY RAIN BIRD PRODUCTS USED IN THIS PROJECT TO BE RETAINED AND SUBMITTED TO GROUNDS SERVICES. STANFORD GROUNDS IRRIGATION (650) 650-725-8687.
5. TIES TO BE PROVIDED BY CONTRACTOR TO ATTACH VINES TO CABLES AND TRELLIS STRUCTURE. SUBMIT SAMPLE FOR REVIEW PRIOR TO INSTALLATION.
6. PROVIDE 3" OF MULCH FOR ALL UNPAVED PATHWAYS, ALL PLANTING AREAS AND 10' BEYOND THE LIMITS OF WORK.

PLANT LIST

BOTANICAL NAME	COMMON NAME	SIZE/SPACING	WUCOLS (REG. 1)	COMMENTS
NEW BUILDING AND EVENT TERRACE				
TREES				
ACER PALMATUM	JAPANESE MAPLE	36" BOX	M	MATCH EXISTING SPECIMENS
PHOENIX CANARIENSIS	CANARY ISLAND DATE PALM	RELOCATED	L	31" TRUNK SPECIMEN
QUERCUS AGRIFOLIA	COAST LIVE OAK	RELOCATED	VL	2-12" TRUNK SPECIMENS
QUERCUS AGRIFOLIA	COAST LIVE OAK	24" BOX	VL	
SHRUBS				
ARCTOSTAPHYLOS 'HOWARD MCMINN'	MANZANITA	5 GAL	L	
CEANOTHUS 'CONCHA'	CA LILAC	5 GAL	L	
HETEROMELES ARBUTIFOLIA	TOYON	5 GAL	L	
PUNICA GRANATUM 'NANA'	DWARF POMEGRANATE	5 GAL	L	
RHAMNUS CALIFORNICA 'EVE CASE'	CA COFFEEBERRY	5 GAL	L	
ROSMARINUS OFF. 'COLLINGWOOD INGRAM'	ROSEMARY	5 GAL	L	
SUCCULENT ACCENTS				
AEONIUM ARBOREUM	AEONIUM	5 GAL	L	
AEONIUM 'KIWI'	AEONIUM	5 GAL	L	
AEONIUM HAWORTHII	PINWHEEL AEONIUM	5 GAL	L	
AGAVE ATTENUATA	FOX TAIL AGAVE	5 GAL	L	
AGAVE AMERICANA	CENTURY PLANT	5 GAL	L	
SEDUM SPATHIFOLIUM 'CAPE BLANCO'	CAPE BLANCO STONECROP	5 GAL	L	
SENECIO SERPENS	BLUE CHALKSTICKS	5 GAL	L	
GROUNDCOVER				
CAREX DIVULSA	BERKELEY SEDGE	1 GAL	L	
CEANOTHUS 'CENTENNIAL'	CA LILAC	5 GAL	L	
DIETES IRIDOIDES	FORTNIGHT LILY	5 GAL	L	
NEPETA FASSENI	CATMINT	5 GAL	L	
THYMUS SPP.	THYME	1 GAL	L	
VINES				
CLYTOSTOMA CALLISTEGIOIDES	VIOLET TRUMPET VINE	5 GAL	M	
TRACHELOSPERMUM JASMINOIDES	STAR JASMINE	5 GAL	M	

TREE RELOCATION LIST

BOTANICAL NAME	COMMON NAME	CALIPER	LOCATION
PHOENIX CANARIENSIS	DATE PALM	31" D.B.H.	SEE PLAN
QUERCUS AGRIFOLIA	COAST LIVE OAK	12" D.B.H.	SEE PLAN
QUERCUS AGRIFOLIA	COAST LIVE OAK	12" D.B.H.	SEE PLAN
QUERCUS AGRIFOLIA	COAST LIVE OAK	17" D.B.H.	SEE PLAN

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date 06/03/2020

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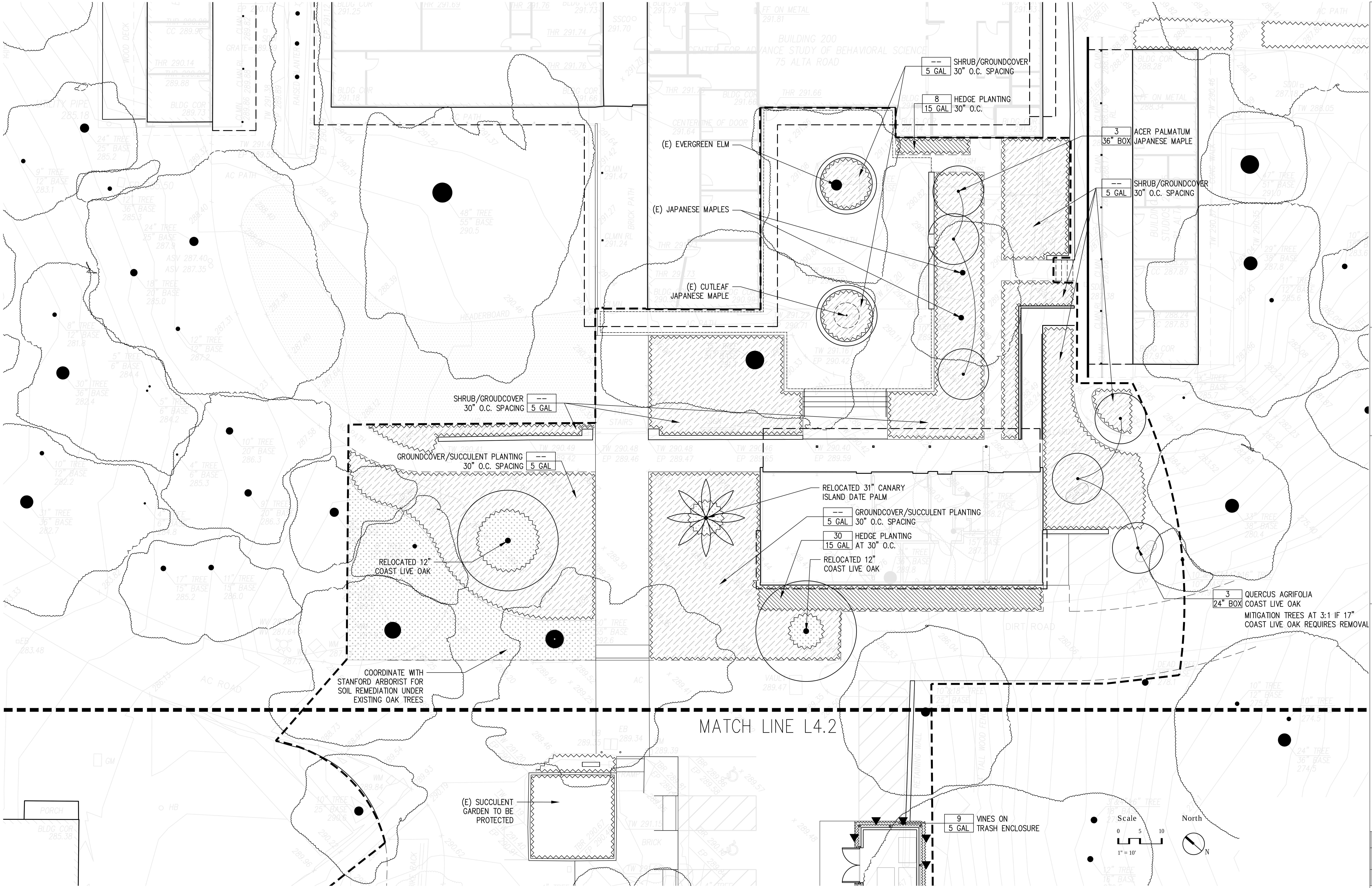
PLANT LIST AND NOTES

L4.0



LEGEND

- SHRUB / GROUNDCOVER PLANTING AREA
- NATIVE HYDROSEED MIX
- PROPOSED OR RELOCATED TREE PER PLAN
- EXISTING TREE TO BE PROTECTED
- HEDGE
- BARK MULCH 3" DEPTH
- VINE

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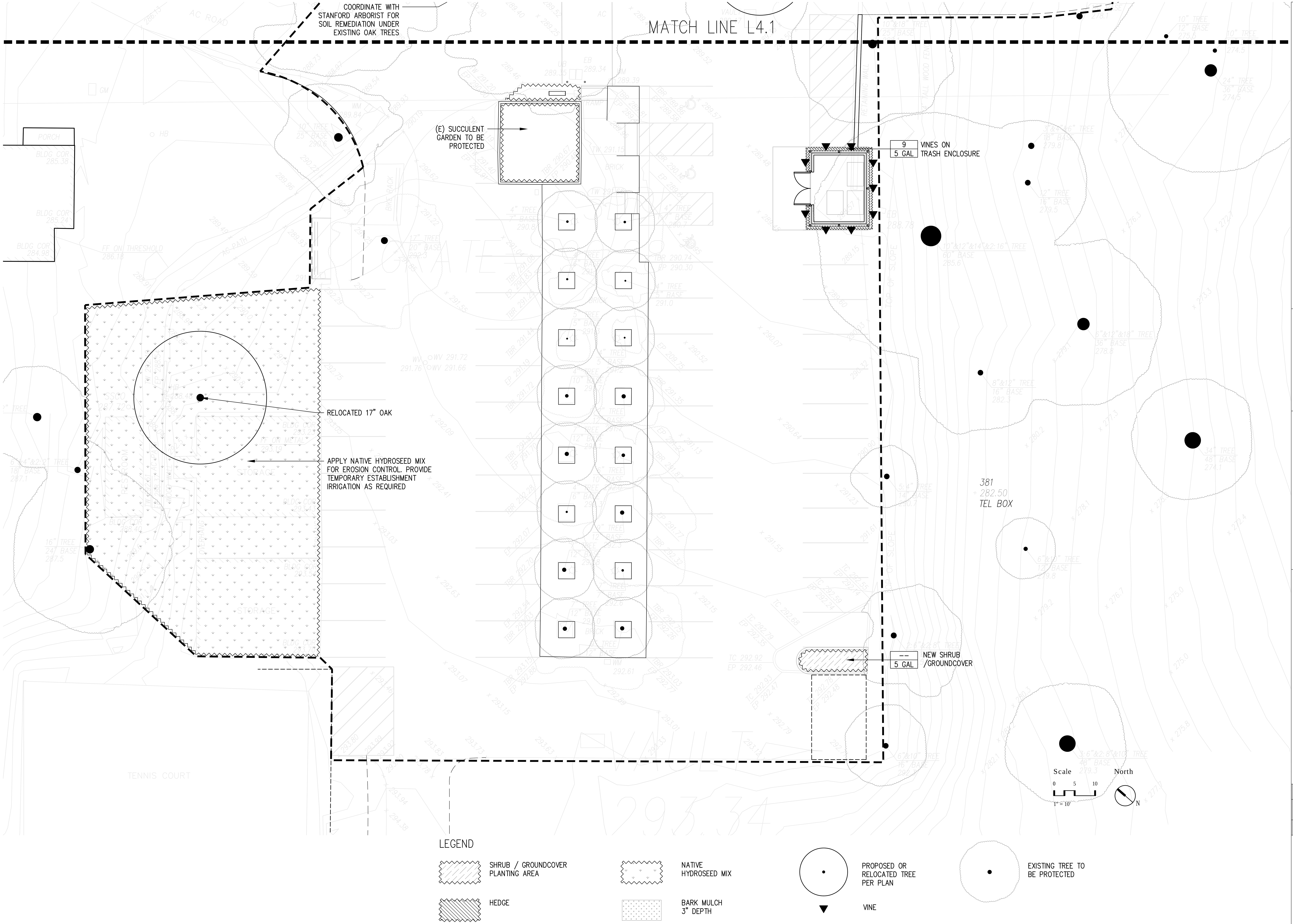
PLANTING PLAN

L4.1



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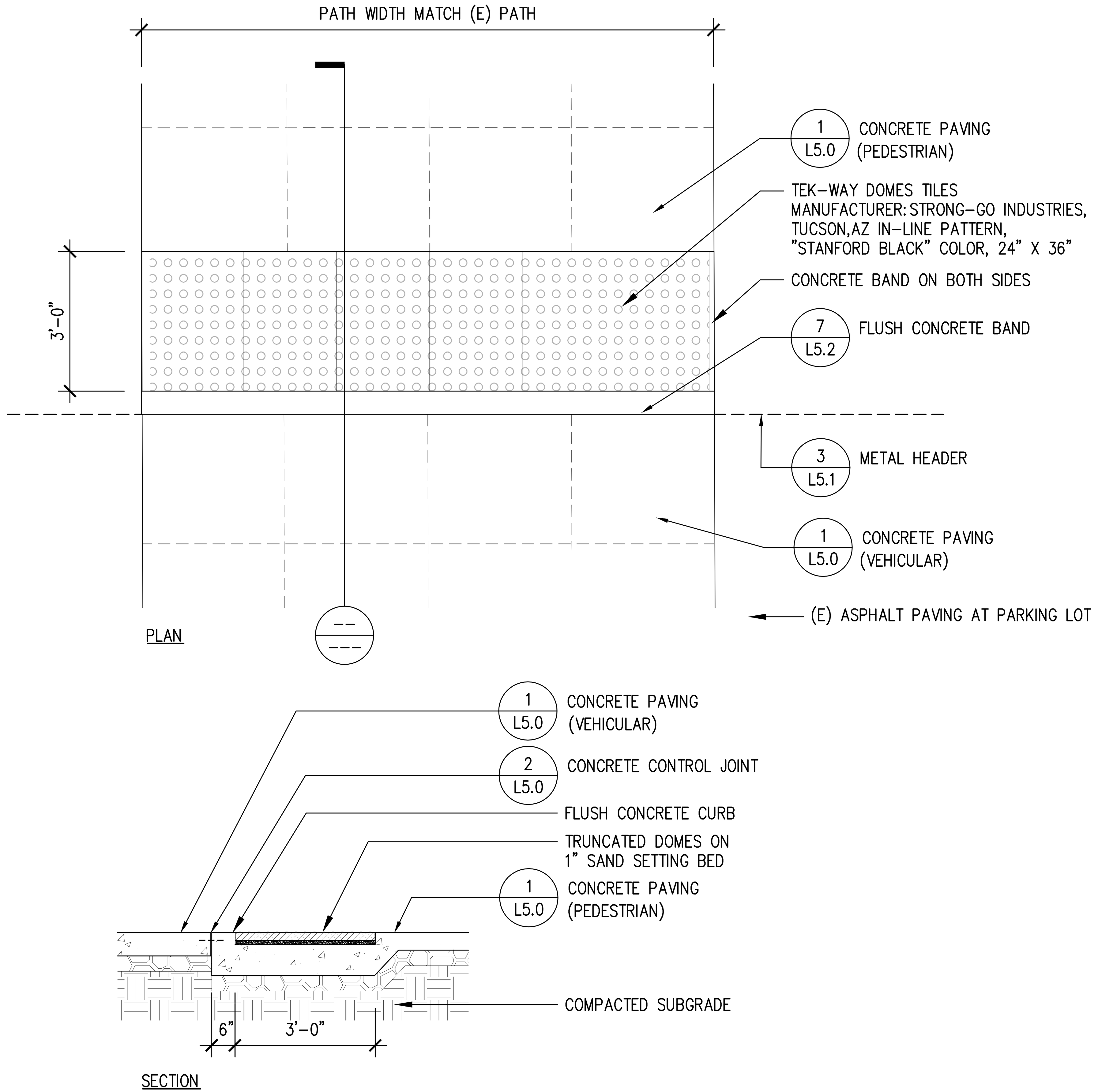
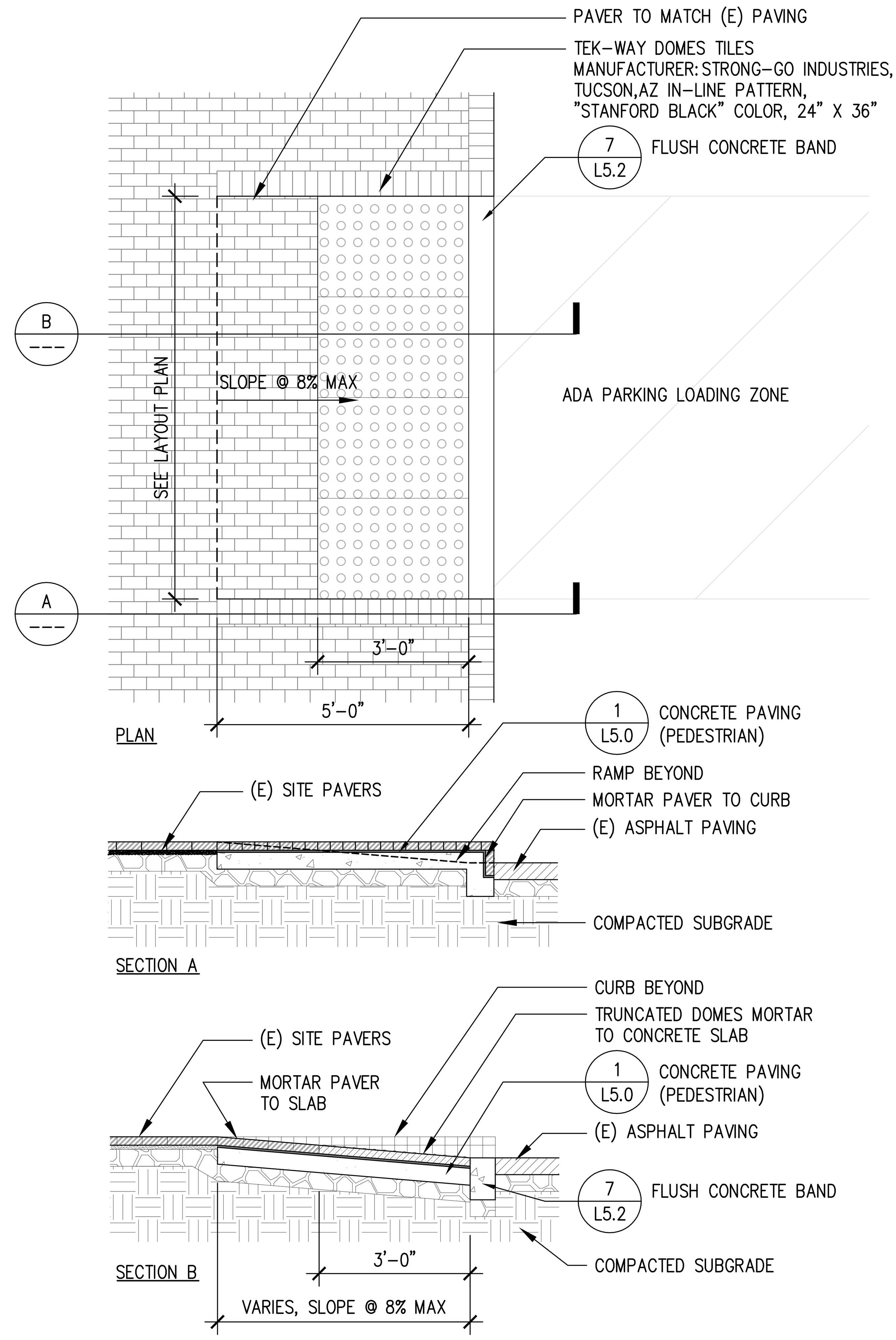
PLANTING PLAN

L4.2

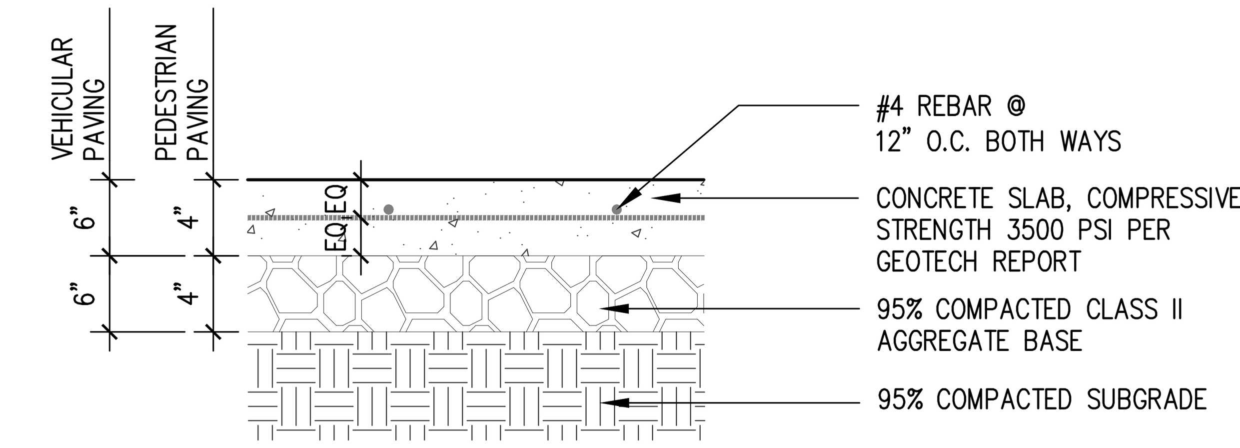


5 TRUNCATED DOMES AT MAIN WALKWAY
1/2" = 1'-0"

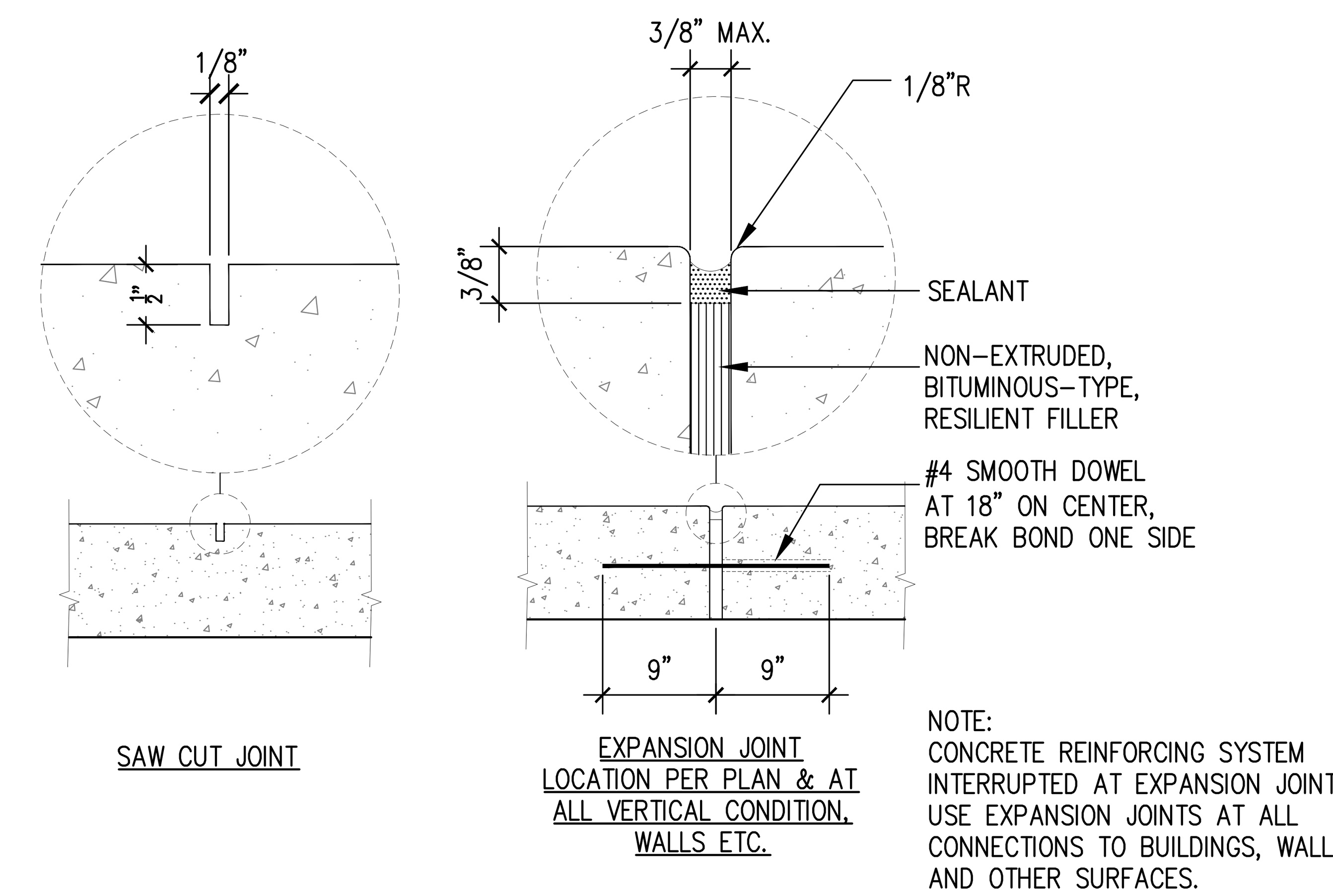


4 TRUNCATED DOMES DETAIL AT PARKING LOT
1/2" = 1'-0"

NOTES:
1. MOCK UP SAMPLES FOR STANFORD REPRESENTATIVE REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
2. PAVING TO BE PEDESTRIAN THICKNESS UNLESS NOTED OTHERWISE. VEHICULAR PAVING THICKNESS OVER 6" AGGREGATE BASE, CONFIRM PER GEOTECHNICAL REPORT.
3. ALL CONCRETE TO BE STANDARD GRAY WITH LIGHT SANDBLAST FINISH AND SAW CUT SCORING.

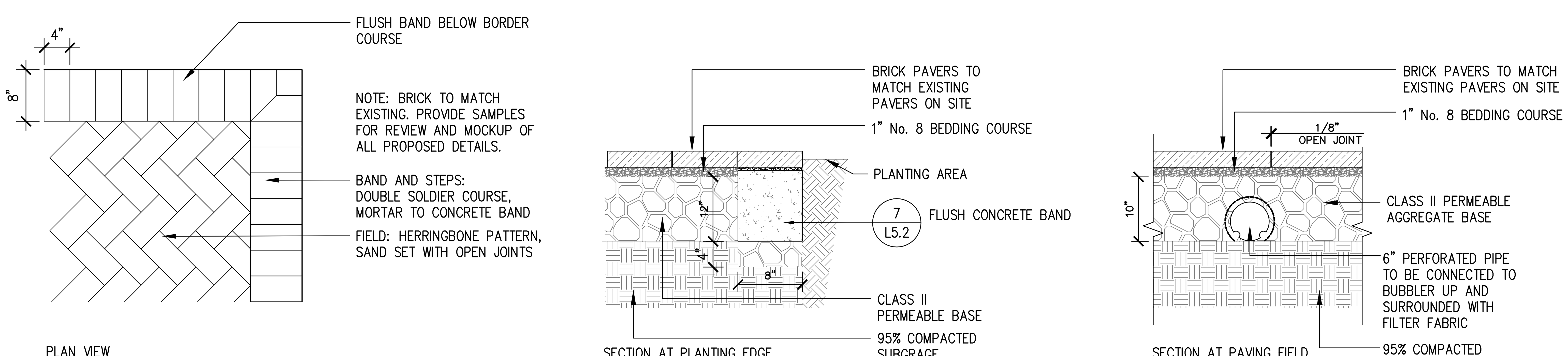


1 CONCRETE PAVING
1 1/2" = 1'-0"

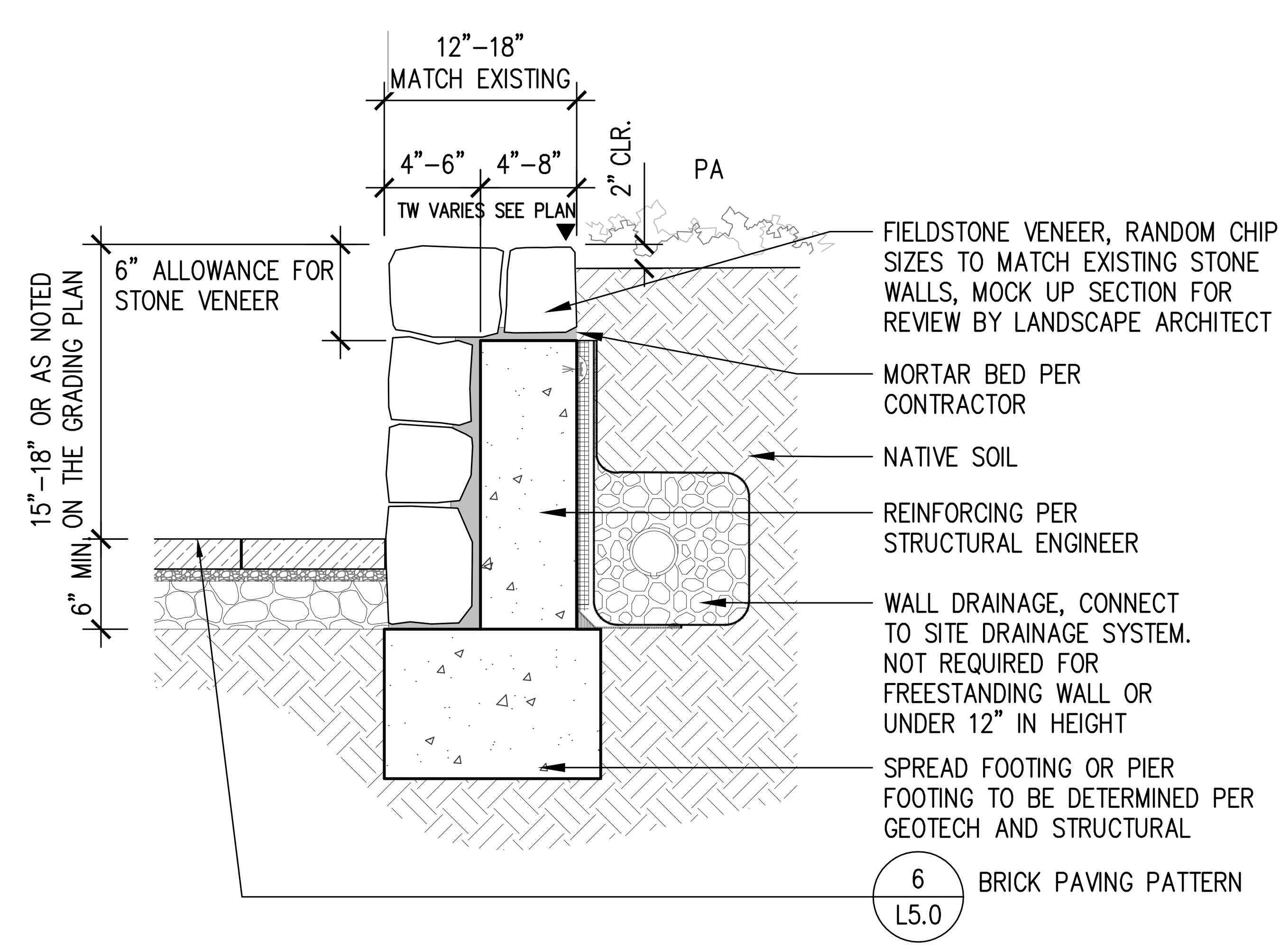


2 CONCRETE CONTROL JOINT
1' = 1'-0"

NOTES:
1. INSTALL PER MANUFACTURER'S RECOMMENDATION.
2. SPACES BETWEEN THE PAVERS SHALL NOT BE LESS THAN ⅛". USE SPACERS AS RECOMMENDED BY MANUFACTURER.
3. CONTRACTOR TO PROVIDE A FULL PATTERN MOCK UP TO BE REVIEWED AND APPROVED BY STANFORD REPRESENTATIVE PRIOR TO CONSTRUCTION
4. BASE MATERIAL AND THICKNESS ARE PER THE GEOTECHNICAL REPORT



6 BRICK PAVING PATTERN
1" = 1'-0"



3 TYPICAL STONE WALL DETAILS
1" = 1'-0"

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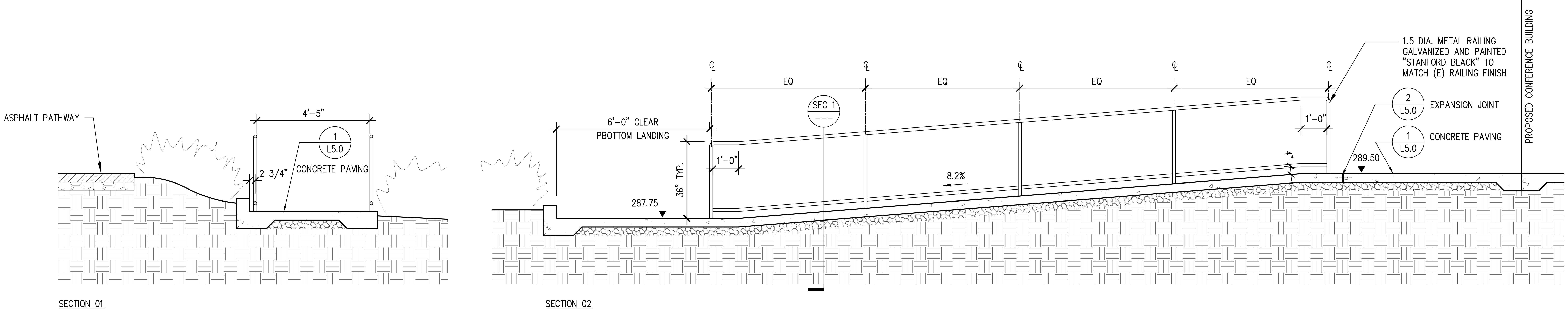
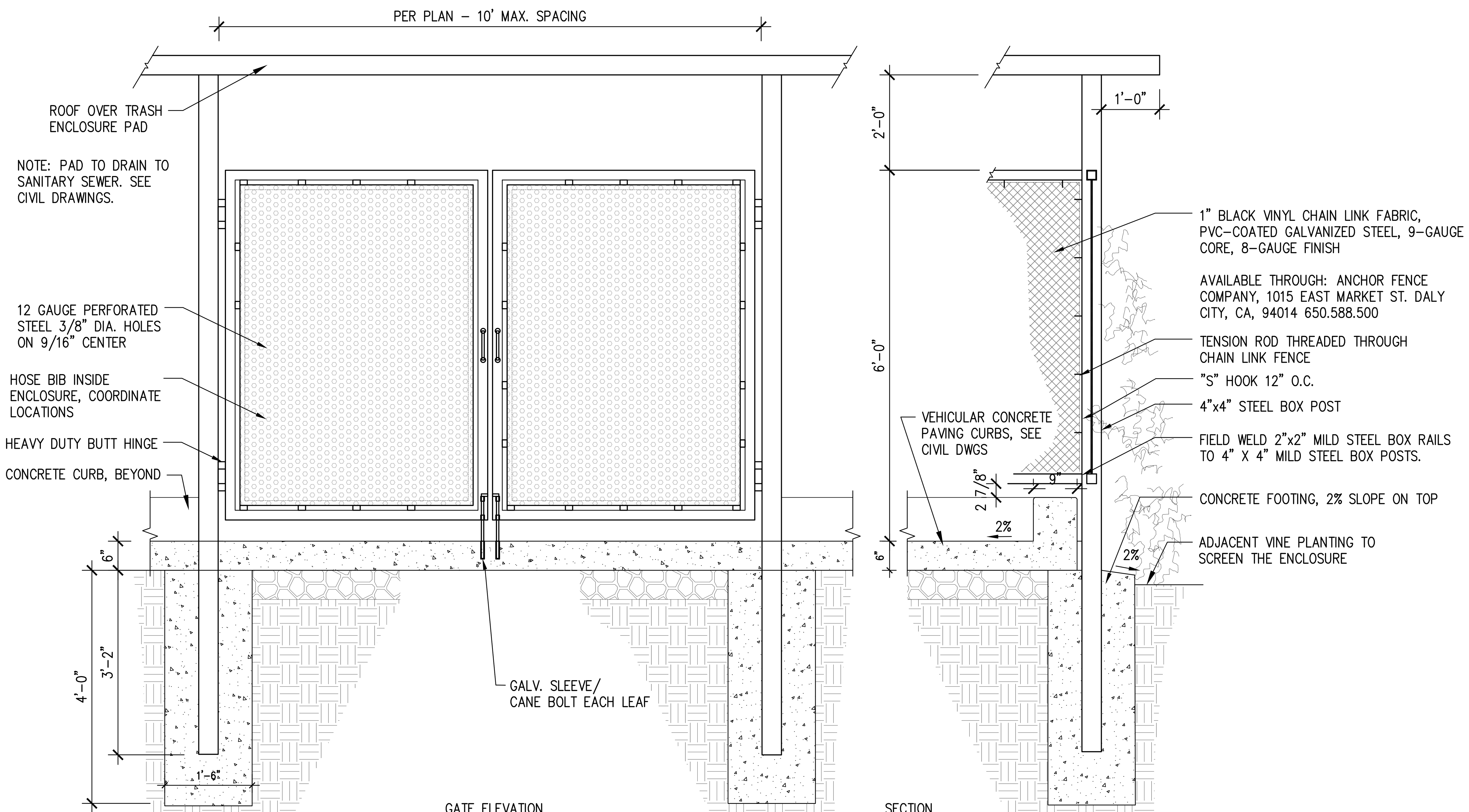
DETAILS

L5.0

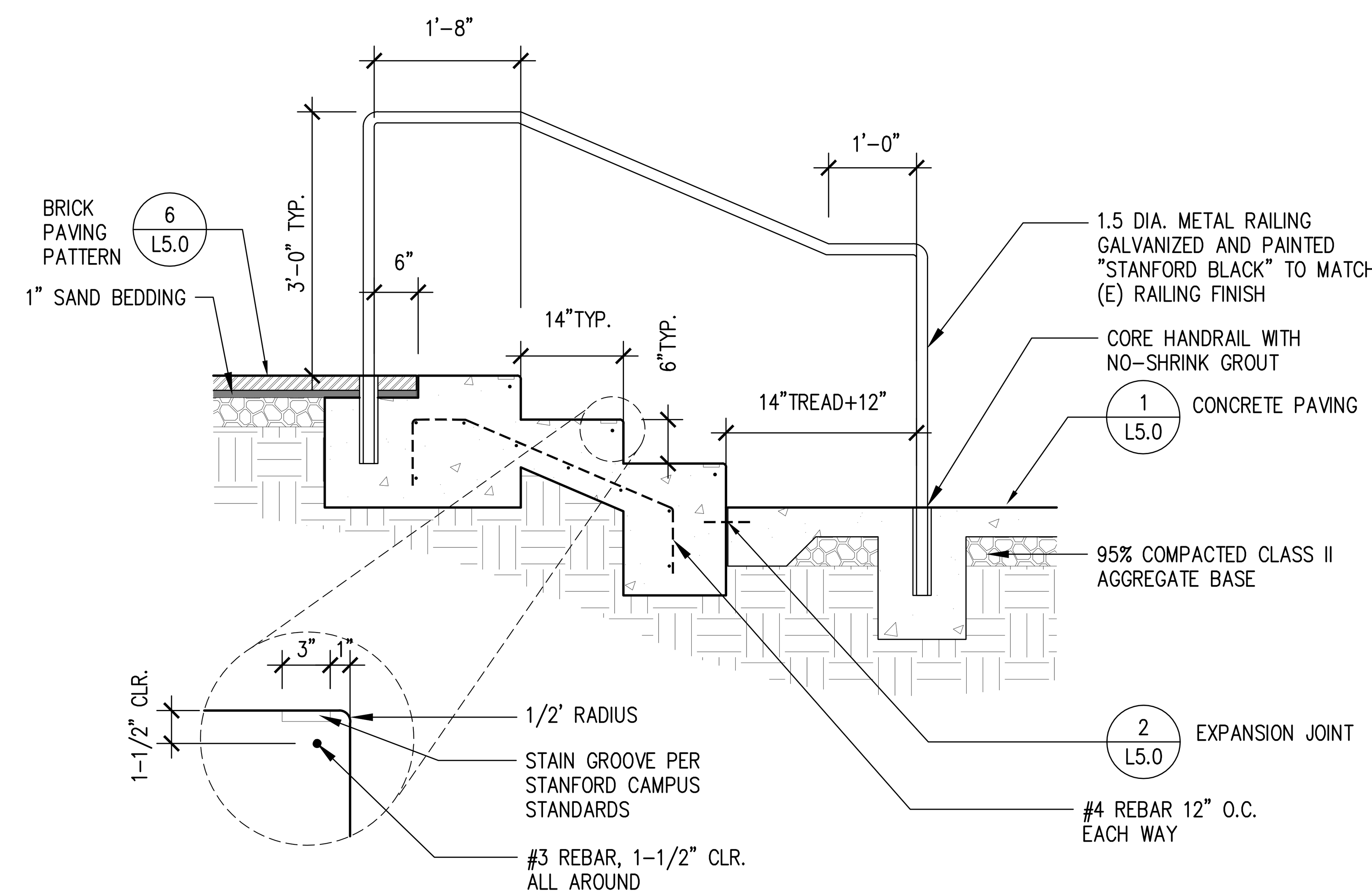


1 RAMP DETAIL
1/2" = 1'-0"

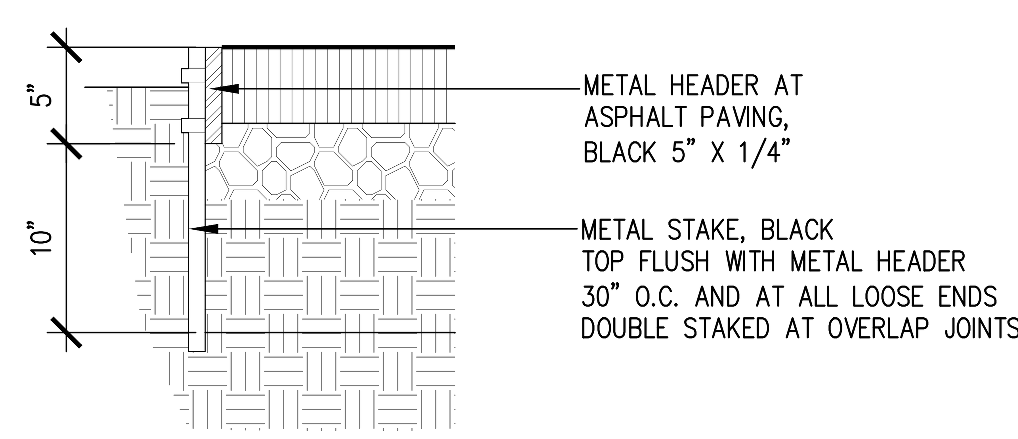
NOTES:
1. REFER TO CIVIL GRADING AND DETAIL PLANS FOR ALL FINISH GRADE ELEVATIONS OF CONCRETE CURBS AND CONCRETE PAVING WITHIN THE ENCLOSURE.
2. ALL METAL (OTHER THAN VINYL CHAIN LINK FABRIC) SHALL BE PAINTED STANDARD BLACK: KELLY MOORE 1245-407 CARBON BLACK, LOW SHEEN W/ 1710 RED OXIDE PRIMER AS APPROPRIATE, OR EQUAL AS APPROVED BY S.U. ARCHITECT/PLANNING OFFICE.
3. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR ENCLOSURE FABRICATION AND MATERIALS.



4 CHAIN LINK TRASH ENCLOSURE
3/4" = 1'-0"



2 STAIRS AND HANDRAIL
3/4" = 1'-0"



3 METAL HEADER
1 1/2" = 1'-0"

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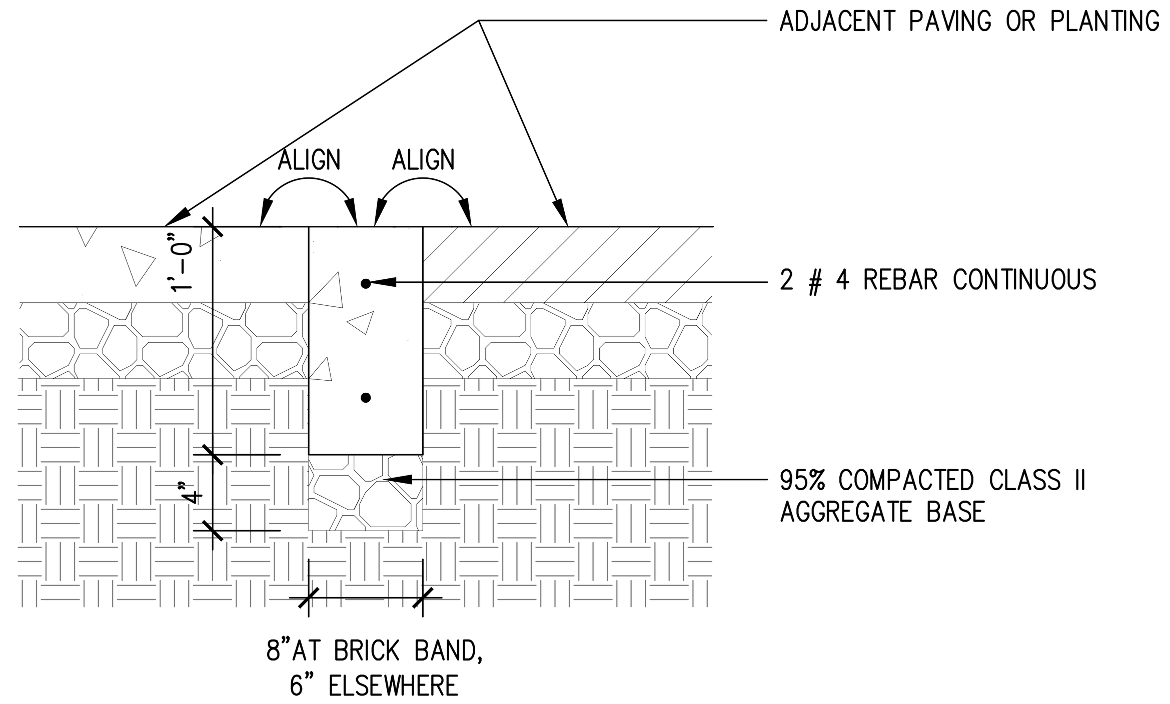
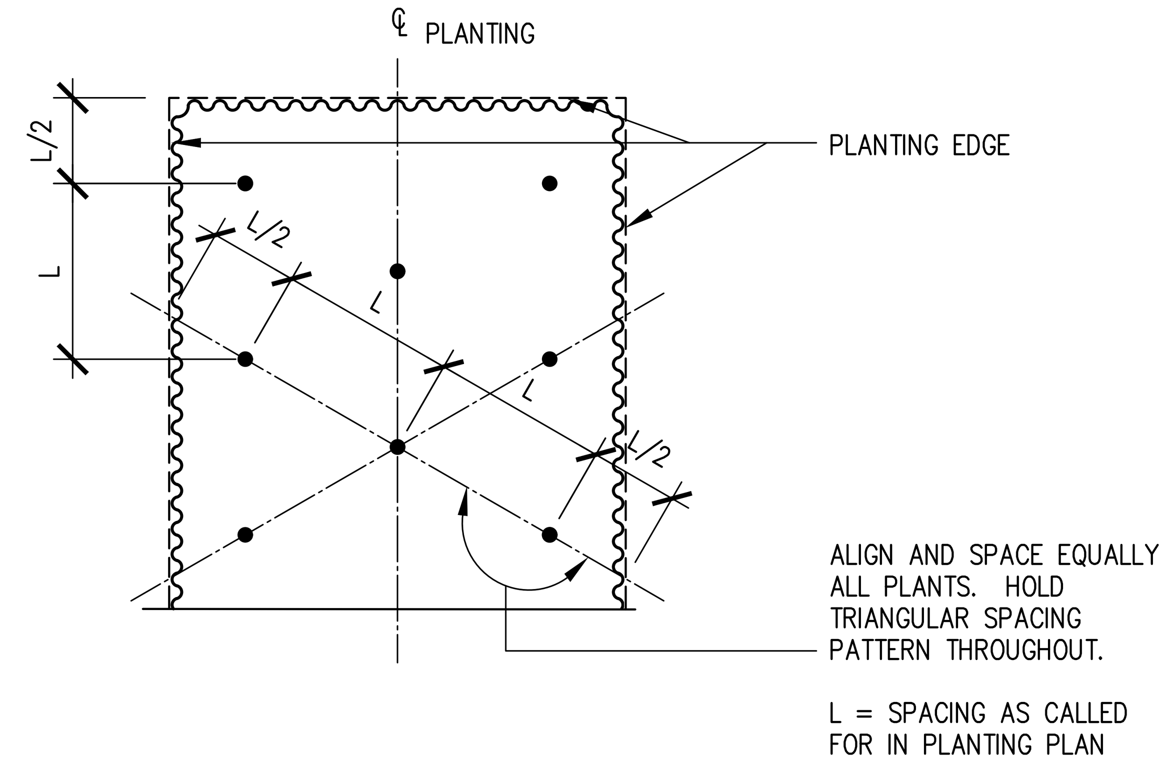
DETAILS

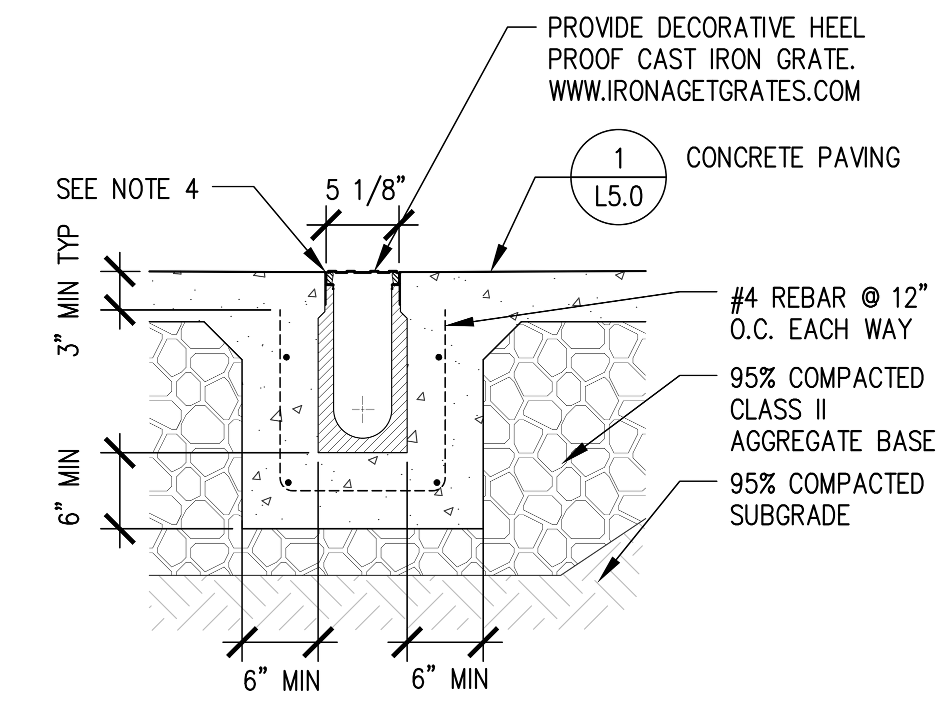
L5.1



7 FLUSH CONCRETE BAND
1 1/2" = 1'-0"

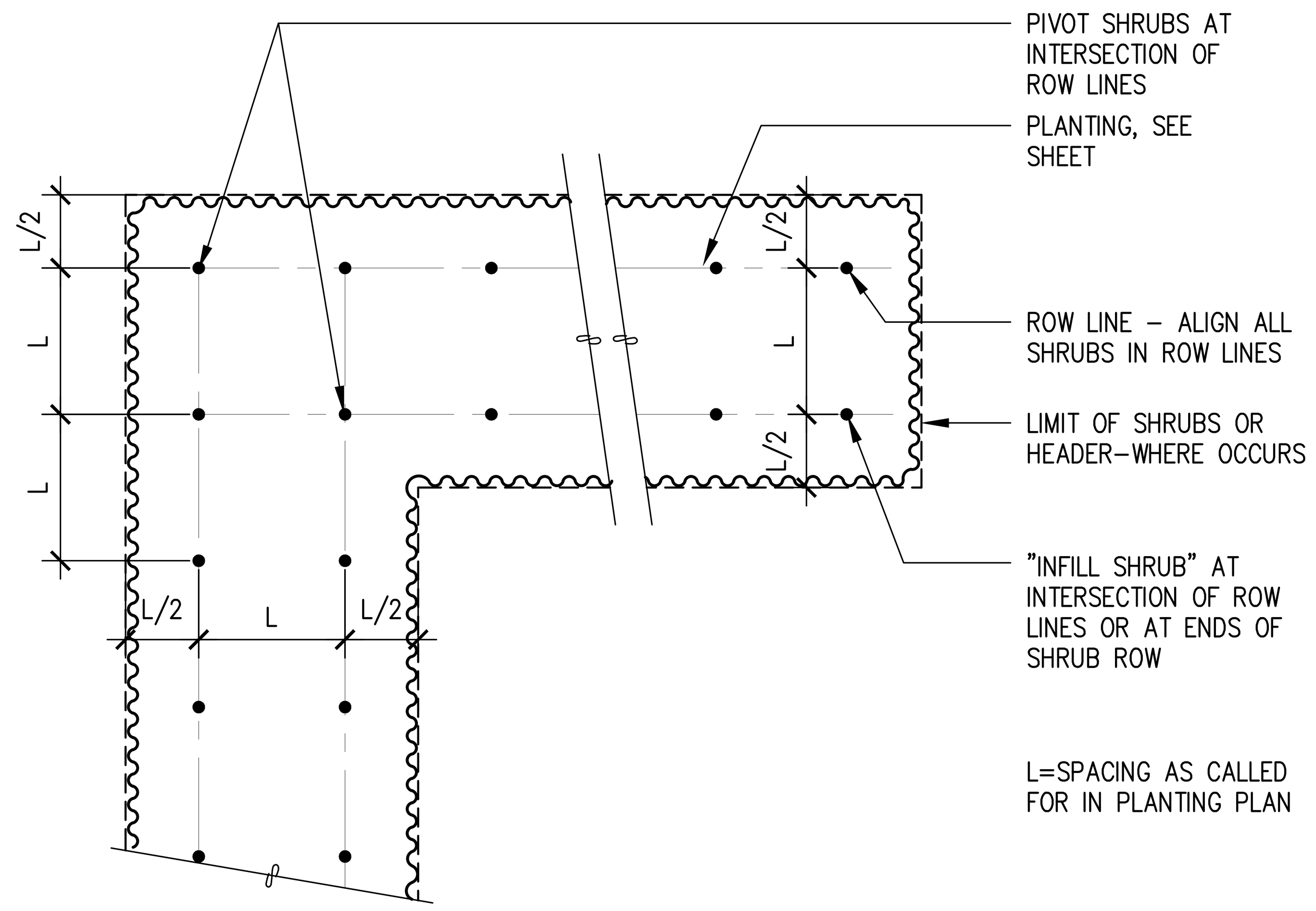


4 TRIPLE ROW TRIANGULAR SPACING
NOT TO SCALE

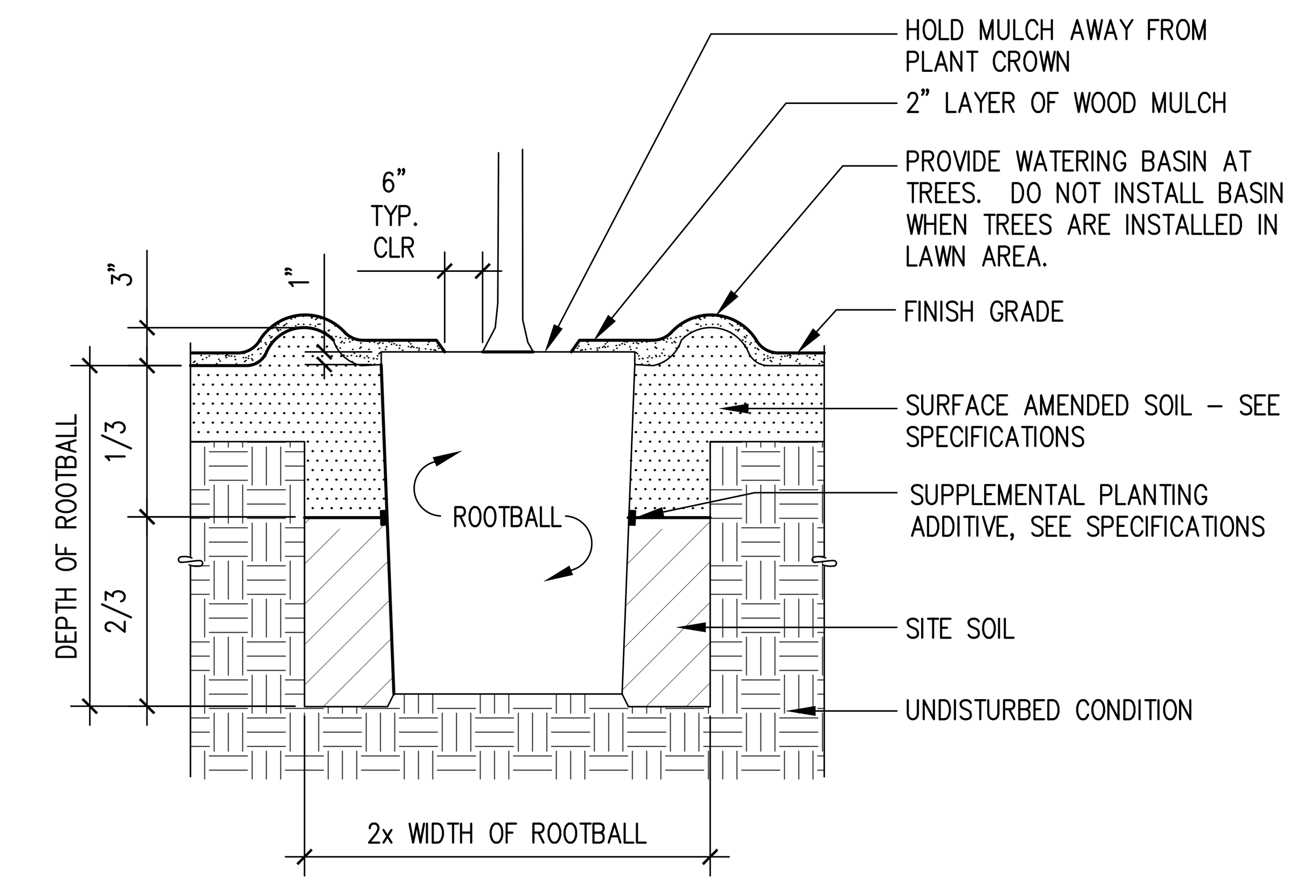


NOTES:
1. SUBMIT CUT SHEETS ON ALL DRAINAGE PRODUCTS TO LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION.
2. SUBMIT SHOP DRAWINGS FOR DRAIN LAYOUT IN CONCRETE PAVING WITH JOINTS INDICATED TO ENSURE THE MINIMUM DIMENSIONS SHOWN ARE SUITABLE FOR THE EXISTING GROUND CONDITIONS.
3. EXPANSION AND CRACK CONTROL JOINTS ARE RECOMMENDED TO PROTECT THE CHANNEL AND THE CONCRETE SURROUND.
4. THE FINISHED LEVEL OF THE CONCRETE SURROUND MUST BE APPROXIMATE. 1/8" ABOVE THE TOP OF THE CHANNEL EDGE. INDICATE RELATIONSHIP OF FINISH CONCRETE TO TOP OF GRATE IN SHOP DRAWING.
5. FOLLOW ACO'S LATEST INSTALLATION INSTRUCTIONS FOR COMPLETE DETAILS.

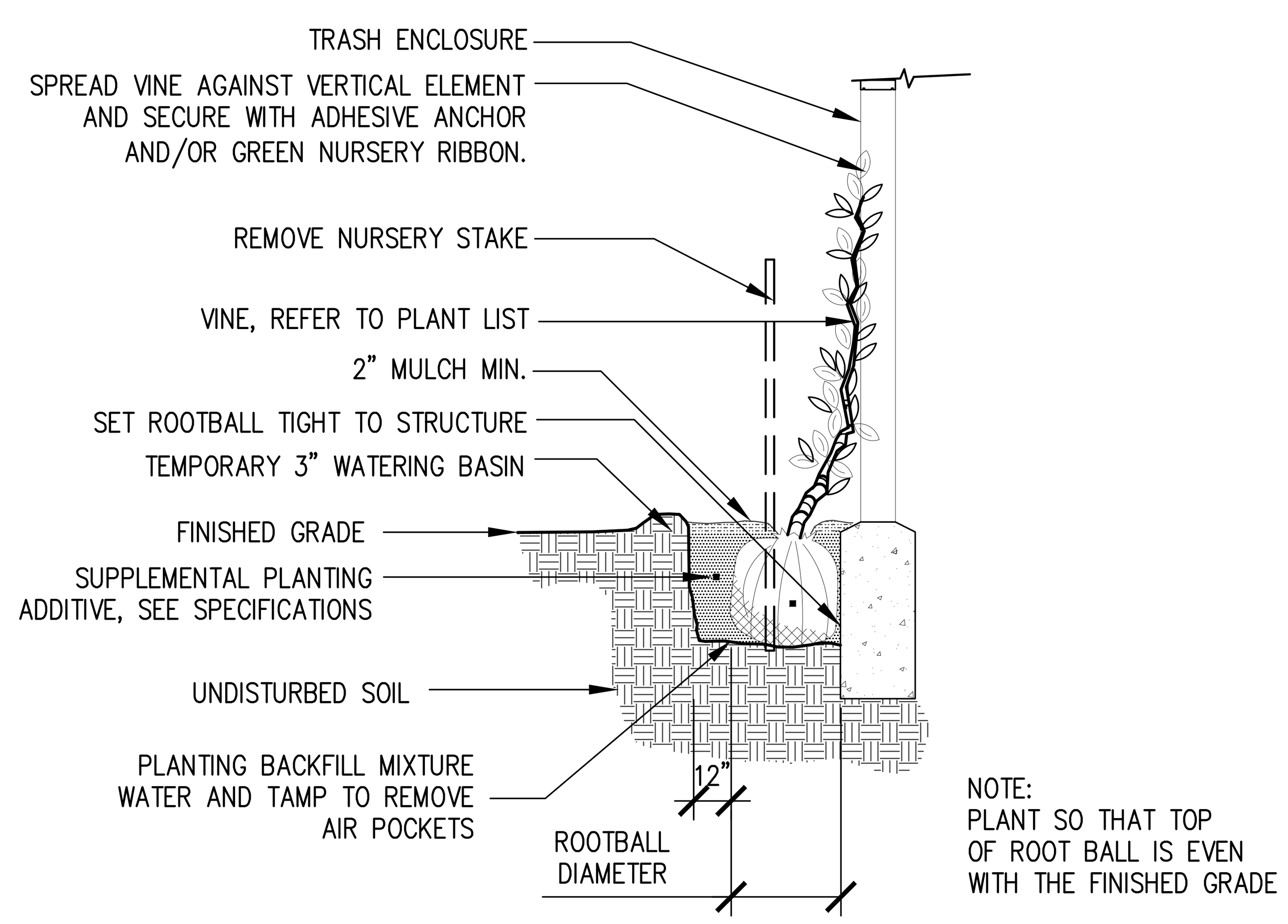
1 TRENCH DRAIN
1" = 1'-0"



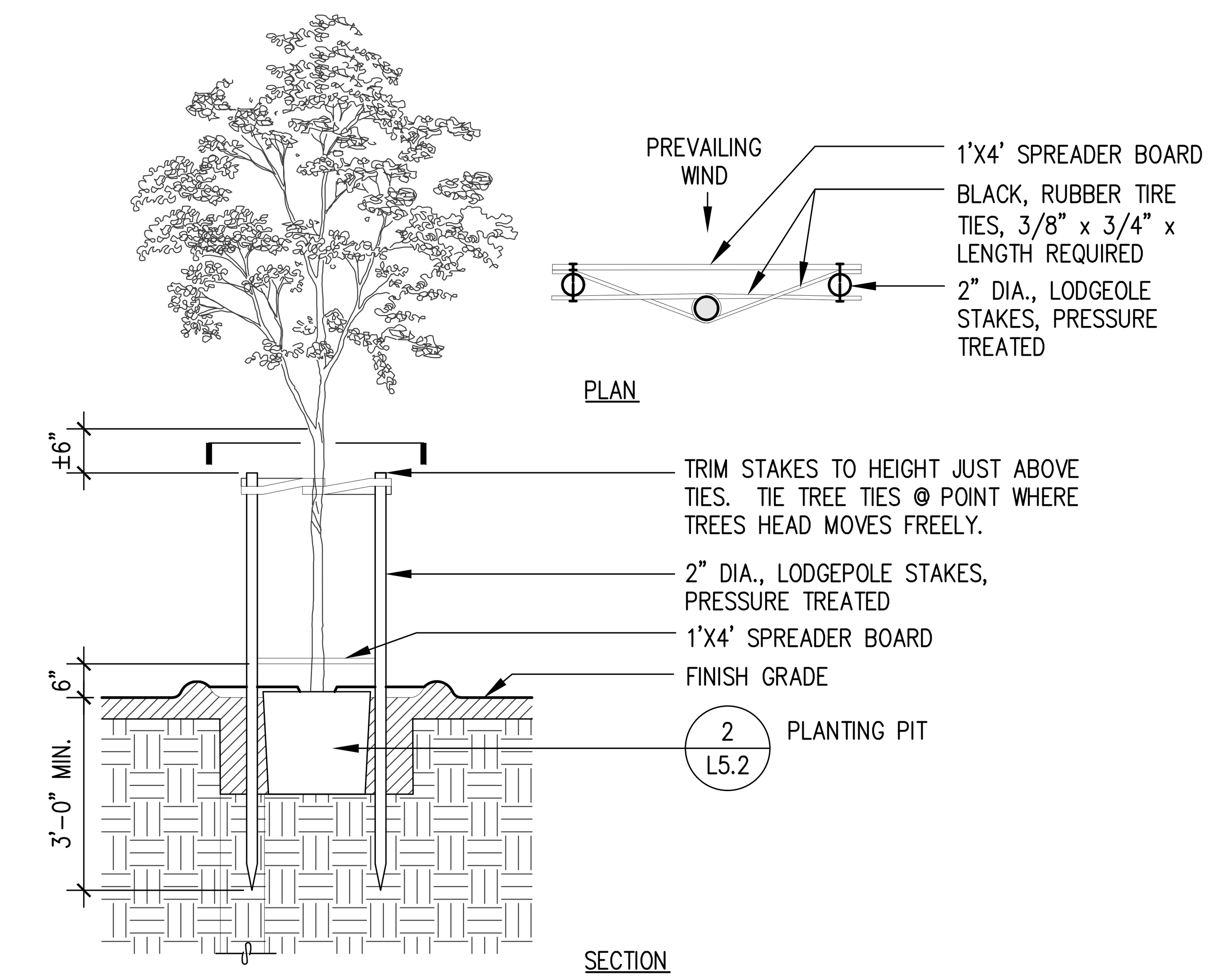
5 DOUBLE ROW SQUARE SPACING
NOT TO SCALE



2 PLANTING PIT
1" = 1'-0"



6 VINE PLANTING
1/2" = 1'-0"



3 TREE STAKING
1/2" = 1'-0"

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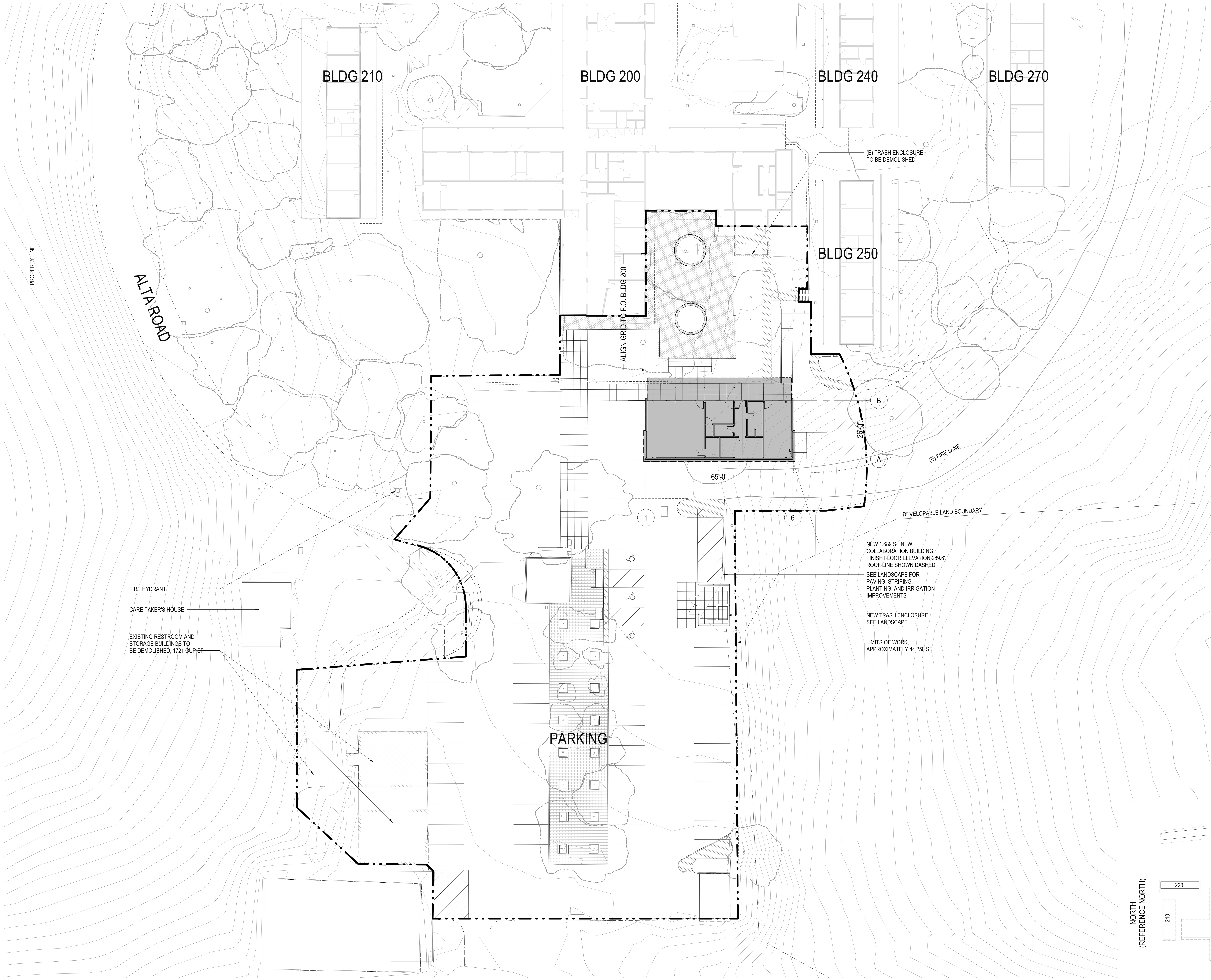
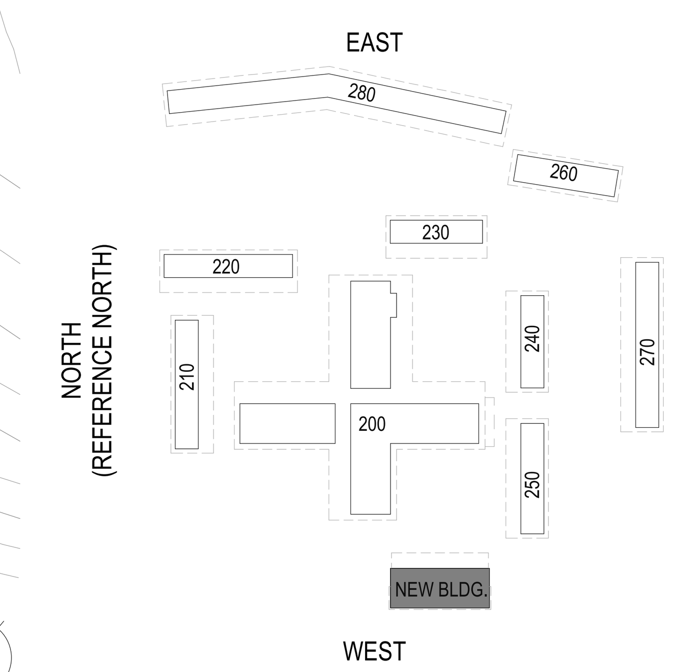
DETAILS

L5.2





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

0 10' 20' 40' 60' PROJ. N

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STATE OF WASHINGTON

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drawn by EH, NM
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date 03/12/2019

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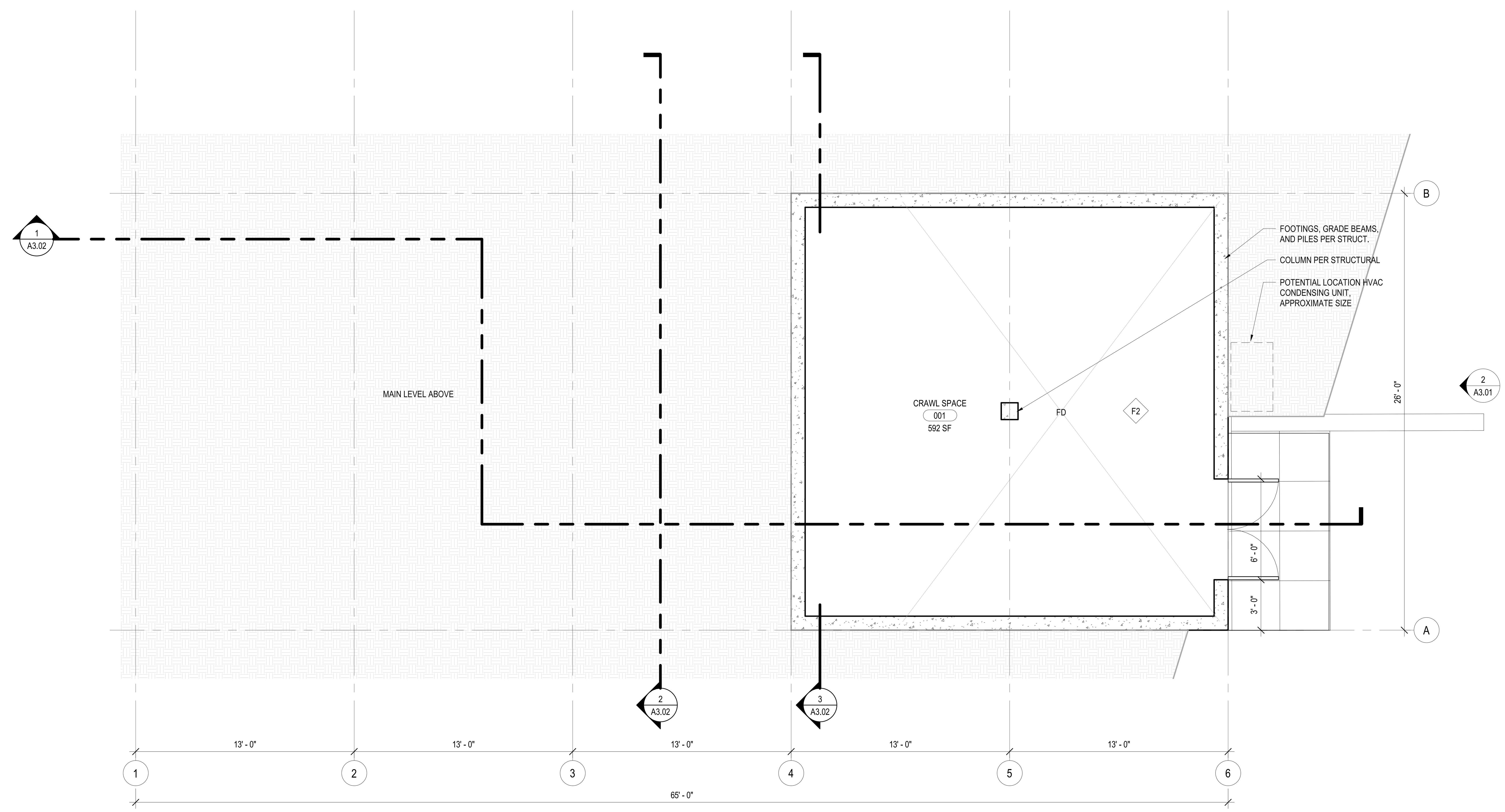
SITE PLAN

A1.00

GENERAL NOTES
1. ALL PLAN DIMENSIONS ARE TO GRID LINE, FACE OF FRAMING, OR FACE OF CONCRETE UNO.

2. DASHED FURNITURE = FURNISHED BY OWNER - INSTALLED BY CONTRACTOR (FOIC).

3. ALL DIMENSIONS TO EXISTING CONSTRUCTION ARE APPROXIMATE, TO BE VERIFIED IN FIELD (VIF).



1 LOWER LEVEL
SCALE: 1/4" = 1'-0"

0 1' 2' 3' 4' 8' 12' PROJ. N

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FLOOR PLAN - LOWER LEVEL

A2.01

GENERAL NOTES

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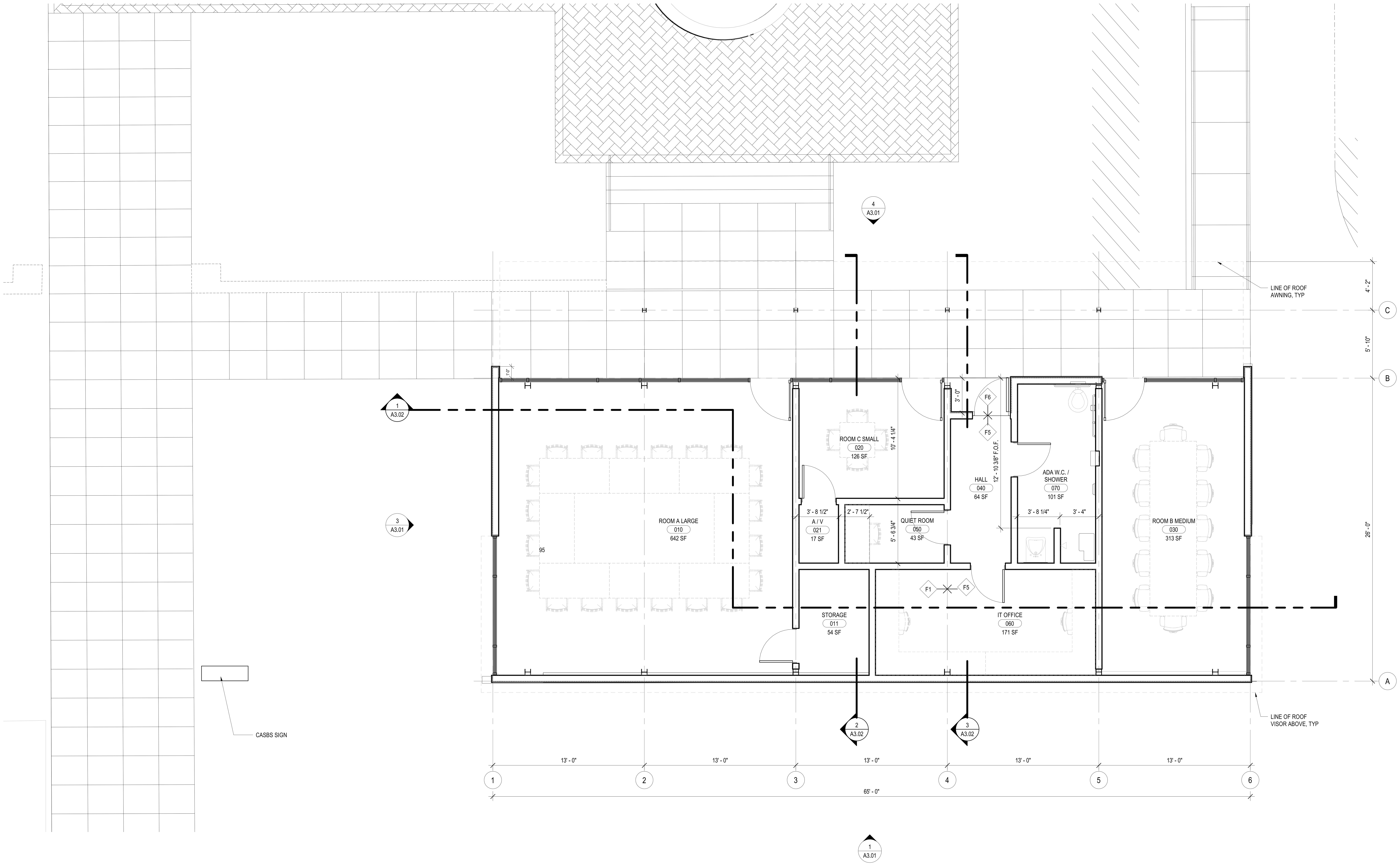
3. ALL DIMENSIONS TO EXISTING CONSTRUCTION ARE APPROXIMATE, TO BE VERIFIED IN FIELD (VIF).



1 MAIN LEVEL

SCALE: 1/4" = 1'-0"

0 1' 2' 3' 4' 8' 12'

PROJ. N

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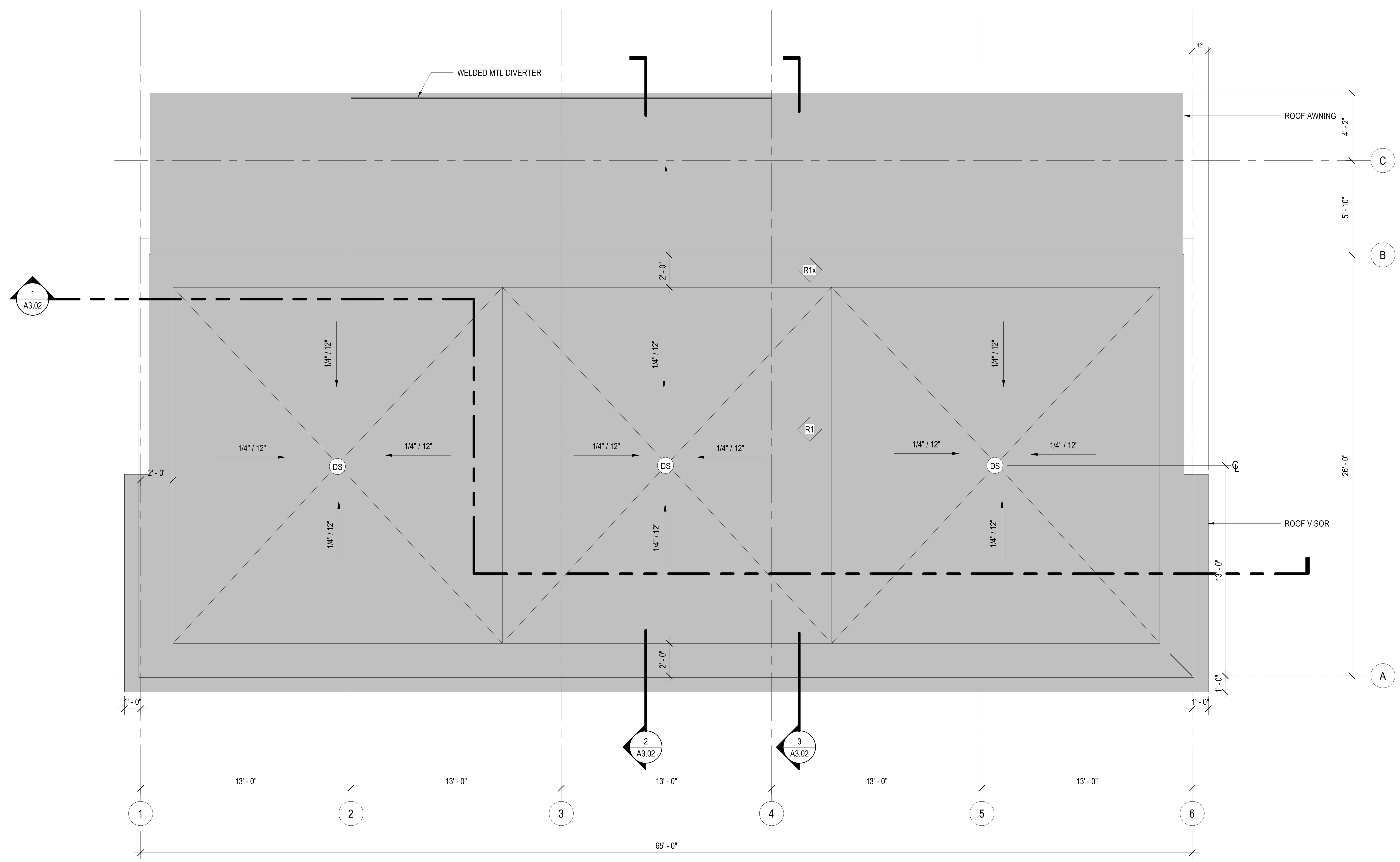
FLOOR PLAN - MAIN LEVEL

A2.02

GENERAL NOTES
1. ALL PLAN DIMENSIONS ARE TO GRID LINE, FACE OF FRAMING, OR FACE OF CONCRETE UNO.

2. DASHED FURNITURE = FURNISHED BY OWNER - INSTALLED BY CONTRACTOR (FOIC).

3. ALL DIMENSIONS TO EXISTING CONSTRUCTION ARE APPROXIMATE, TO BE VERIFIED IN FIELD (VIF).



1 ROOF PLAN
SCALE: 1/4" = 1'-0"

0 1' 2' 3' 4' 8' 12' PROJ. N

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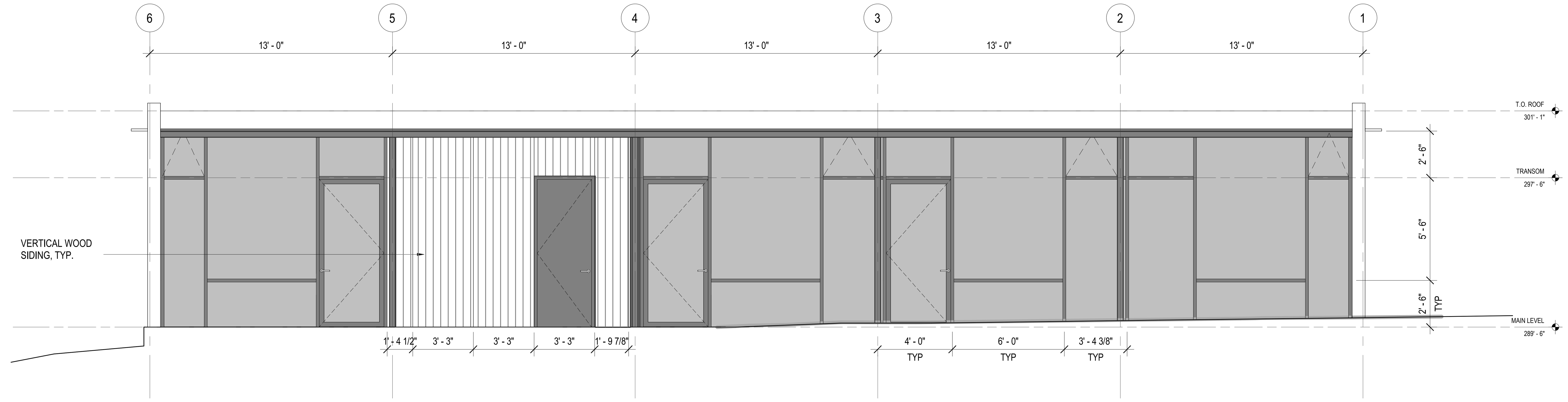
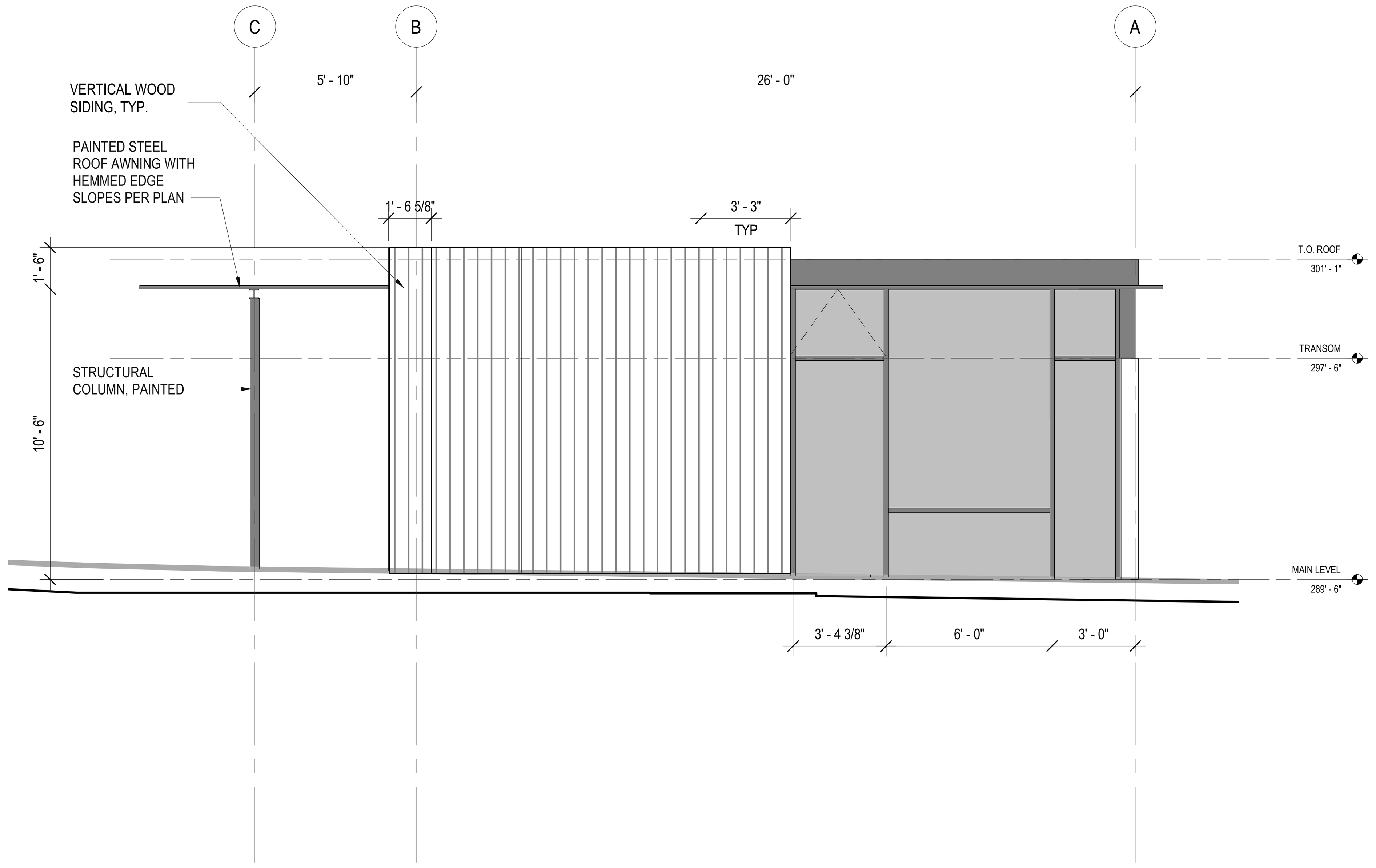
ROOF PLAN

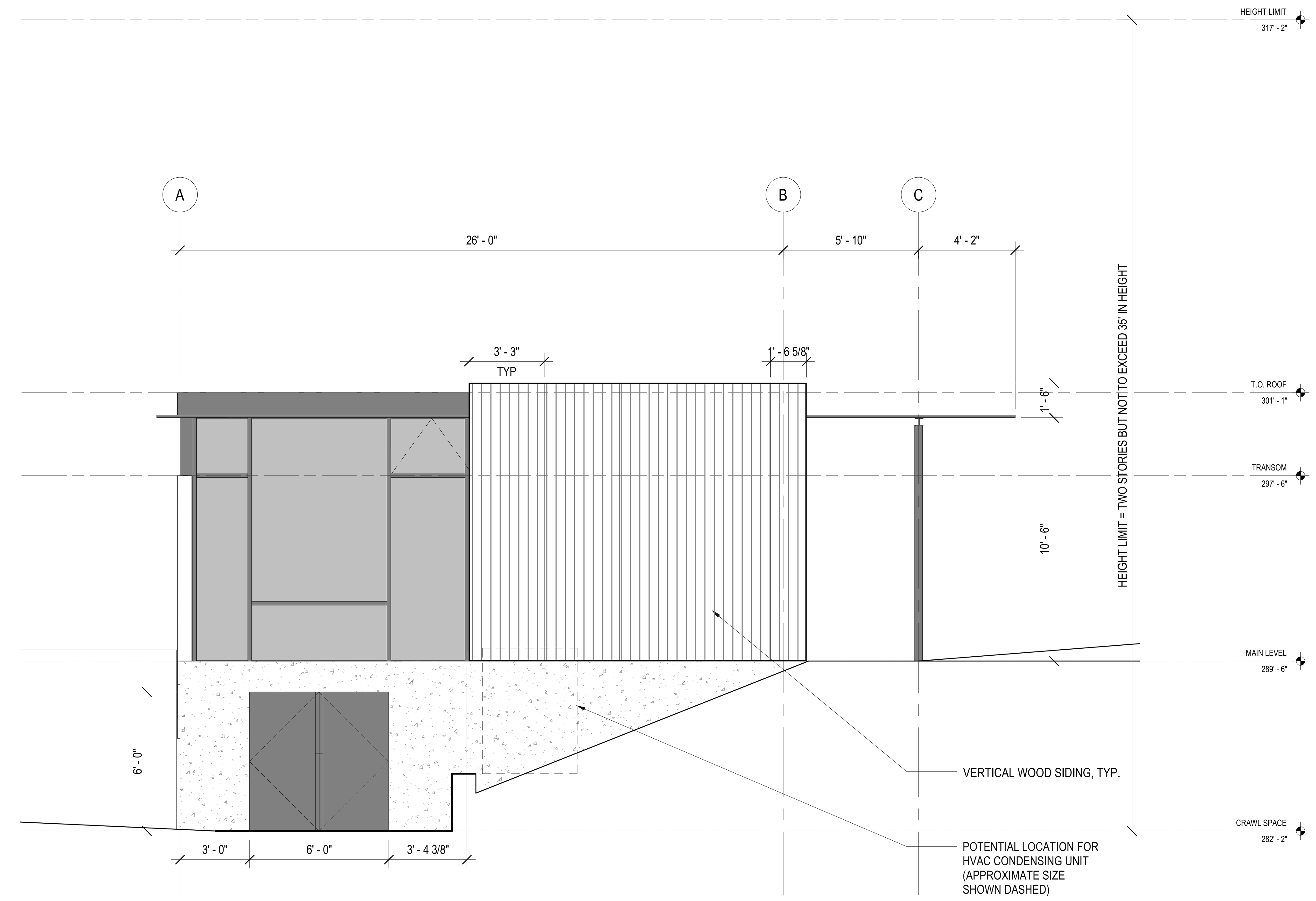
A2.03



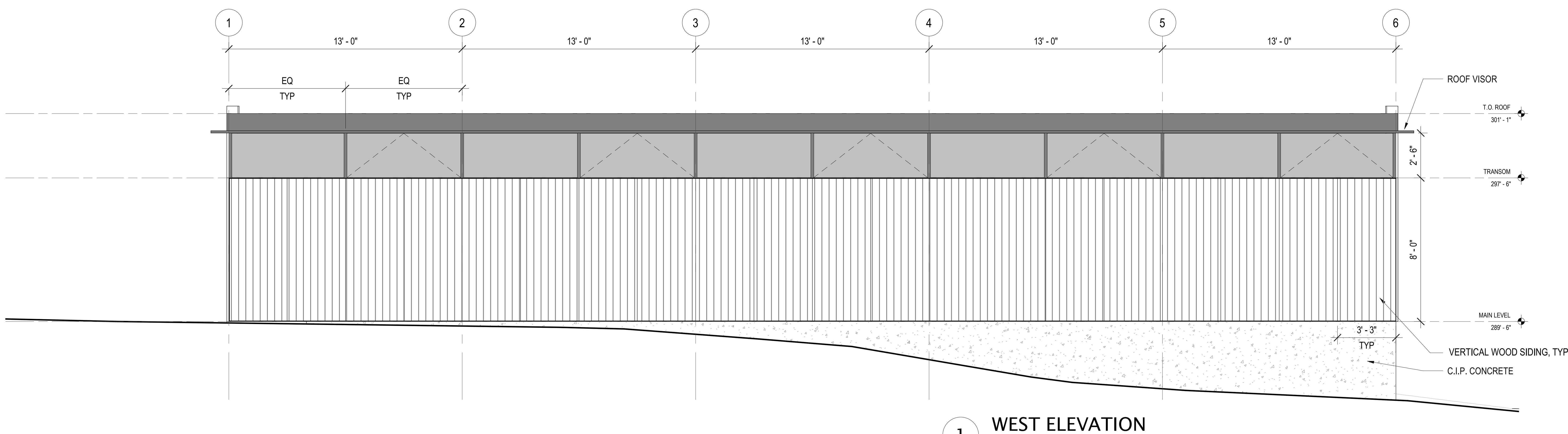
4 EAST ELEVATION
SCALE: 1/4" = 1'-0"



3 NORTH ELEVATION
SCALE: 1/4" = 1'-0"



2 SOUTH ELEVATION
SCALE: 1/4" = 1'-0"



1 WEST ELEVATION
SCALE: 1/4" = 1'-0"

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REGISTERED ARCHITECT
3904
THOMAS WALTER KUNDIG
STATE OF WASHINGTON

principal architect TK
project manager DM
drawn by EH, NM
checked by
job no. 16006
date 03/12/2019

revisions:

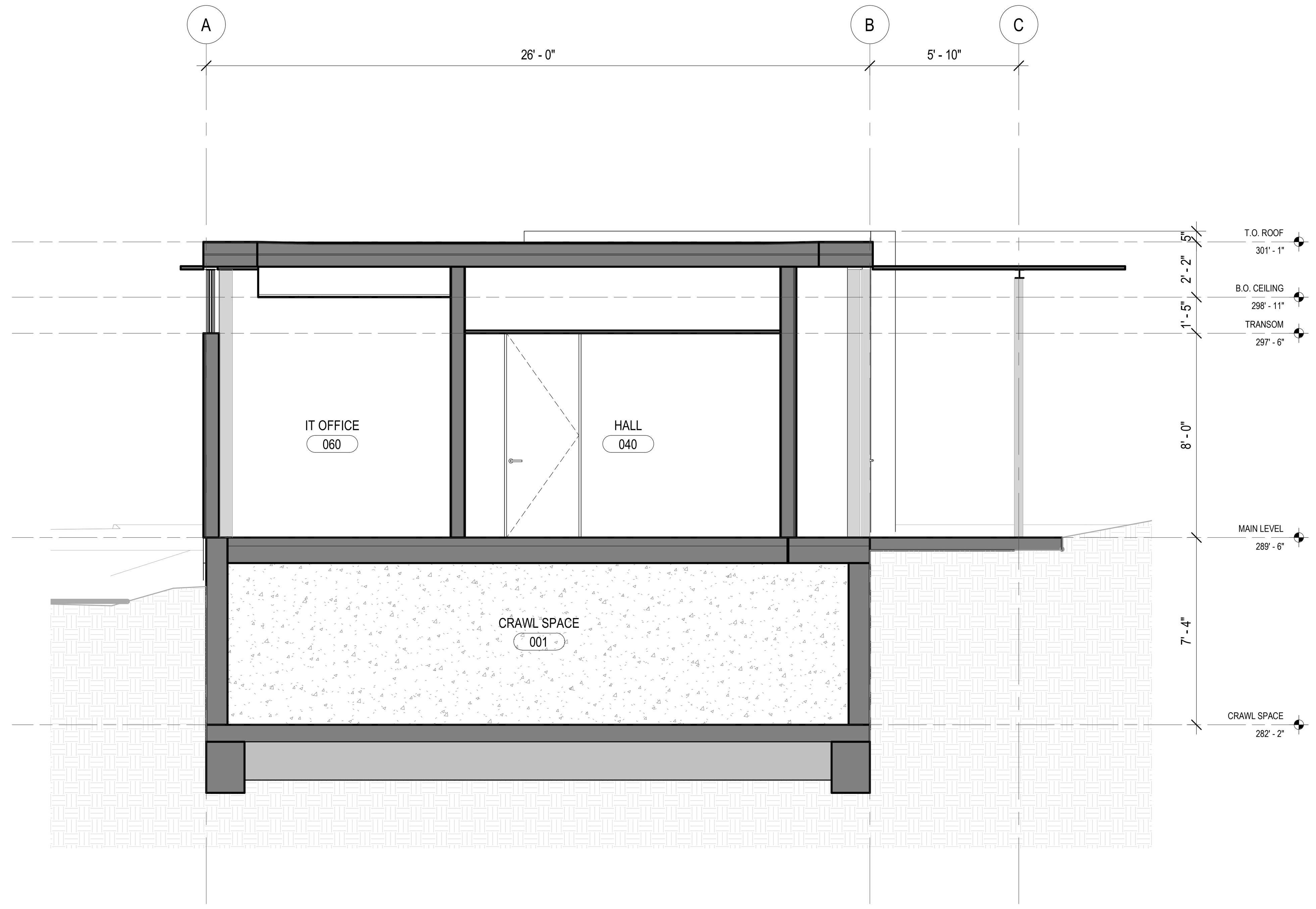
no. date by

NOT FOR CONSTRUCTION

ASX SUBMITTAL
10/23/2020

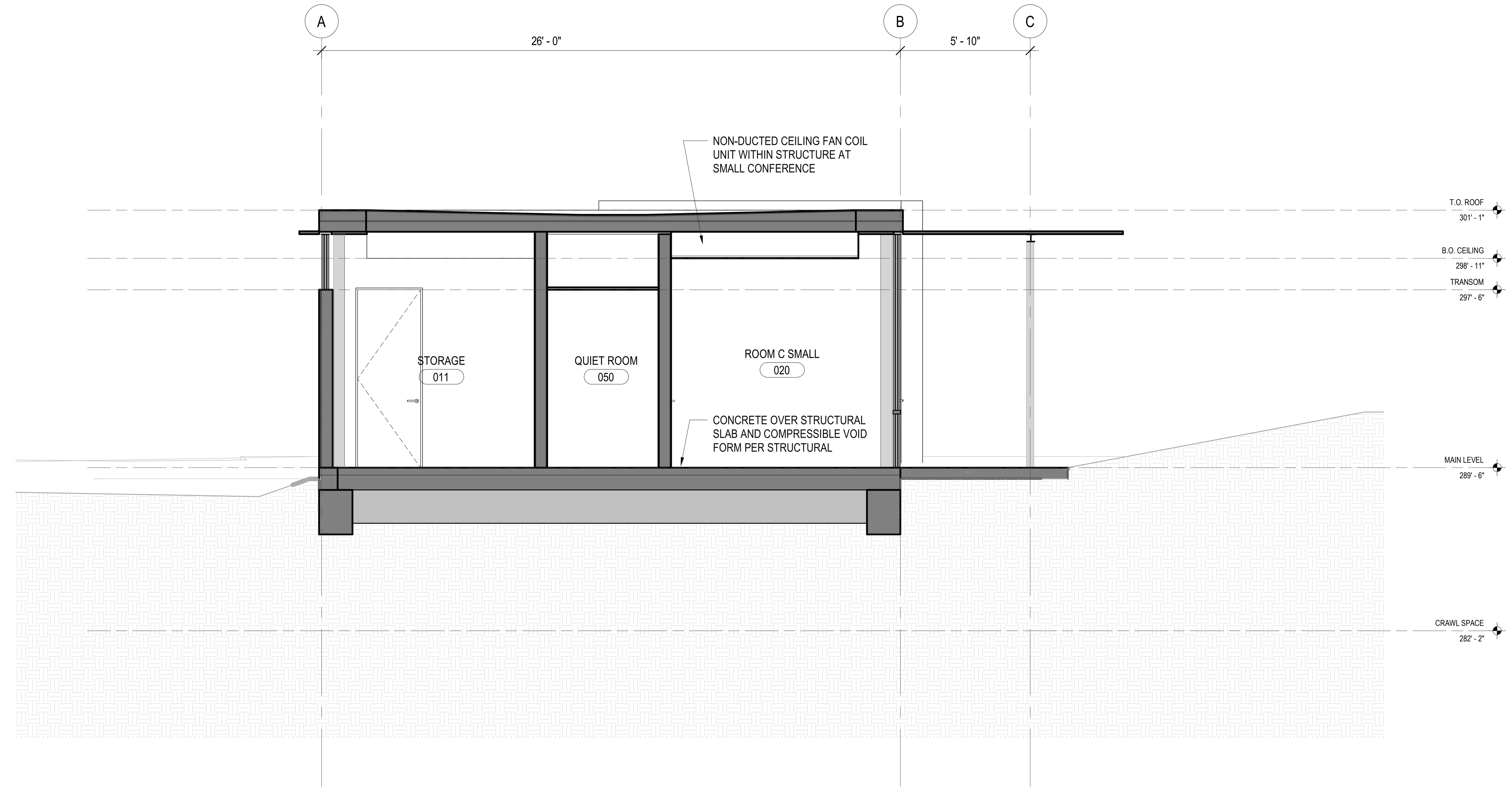
EXTERIOR ELEVATIONS

A3.01



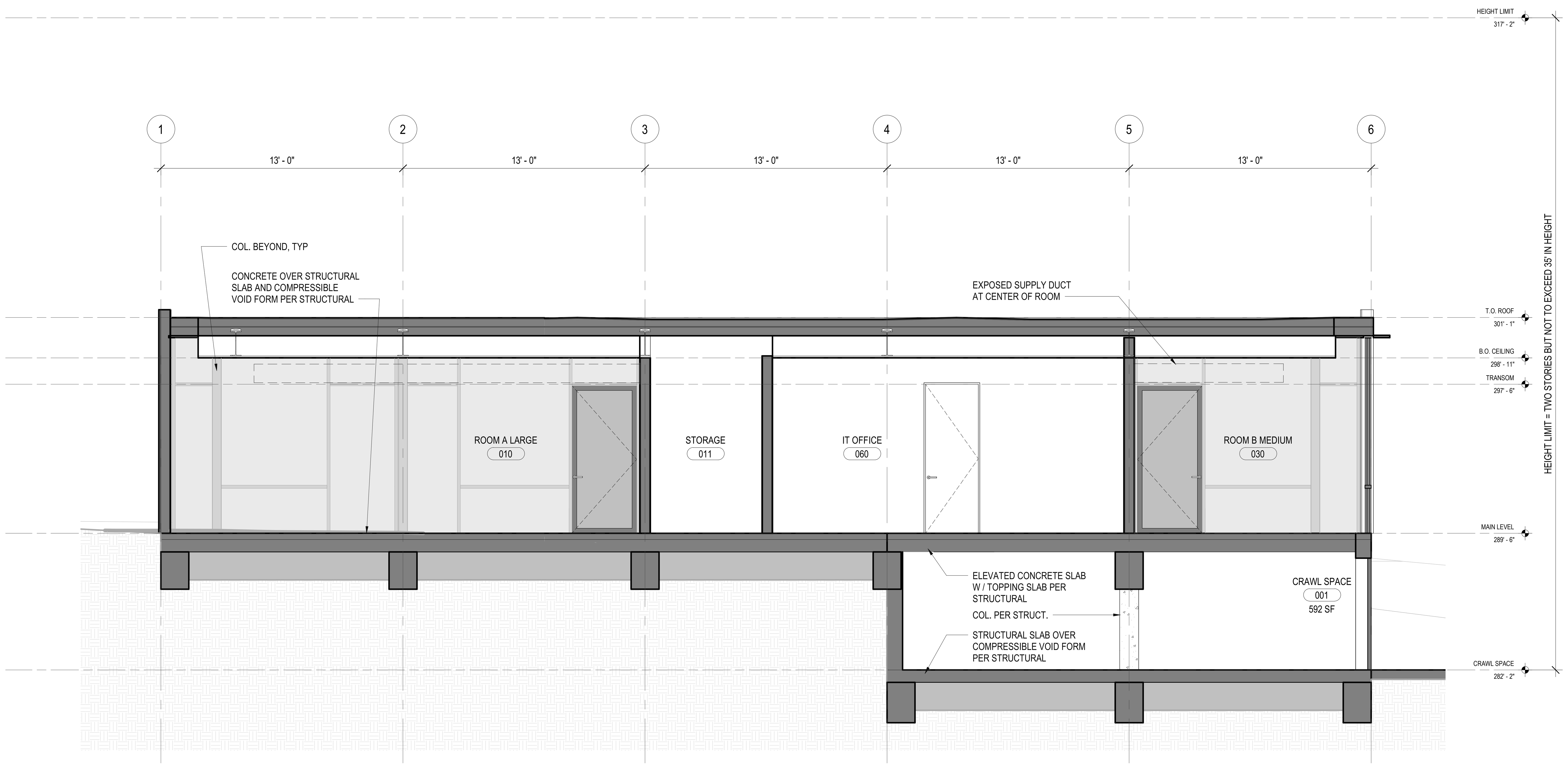
3 EAST/WEST SECTION - SUPPORT
SCALE: 1/4" = 1'-0"

0 1' 2' 3' 4' 8' 12'



2 EAST/WEST SECTION - CONFERENCE
SCALE: 1/4" = 1'-0"

0 1' 2' 3' 4' 8' 12'



1 NORTH/SOUTH SECTION
SCALE: 1/4" = 1'-0"

0 1' 2' 3' 4' 8' 12'

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BUILDING SECTIONS

A3.02