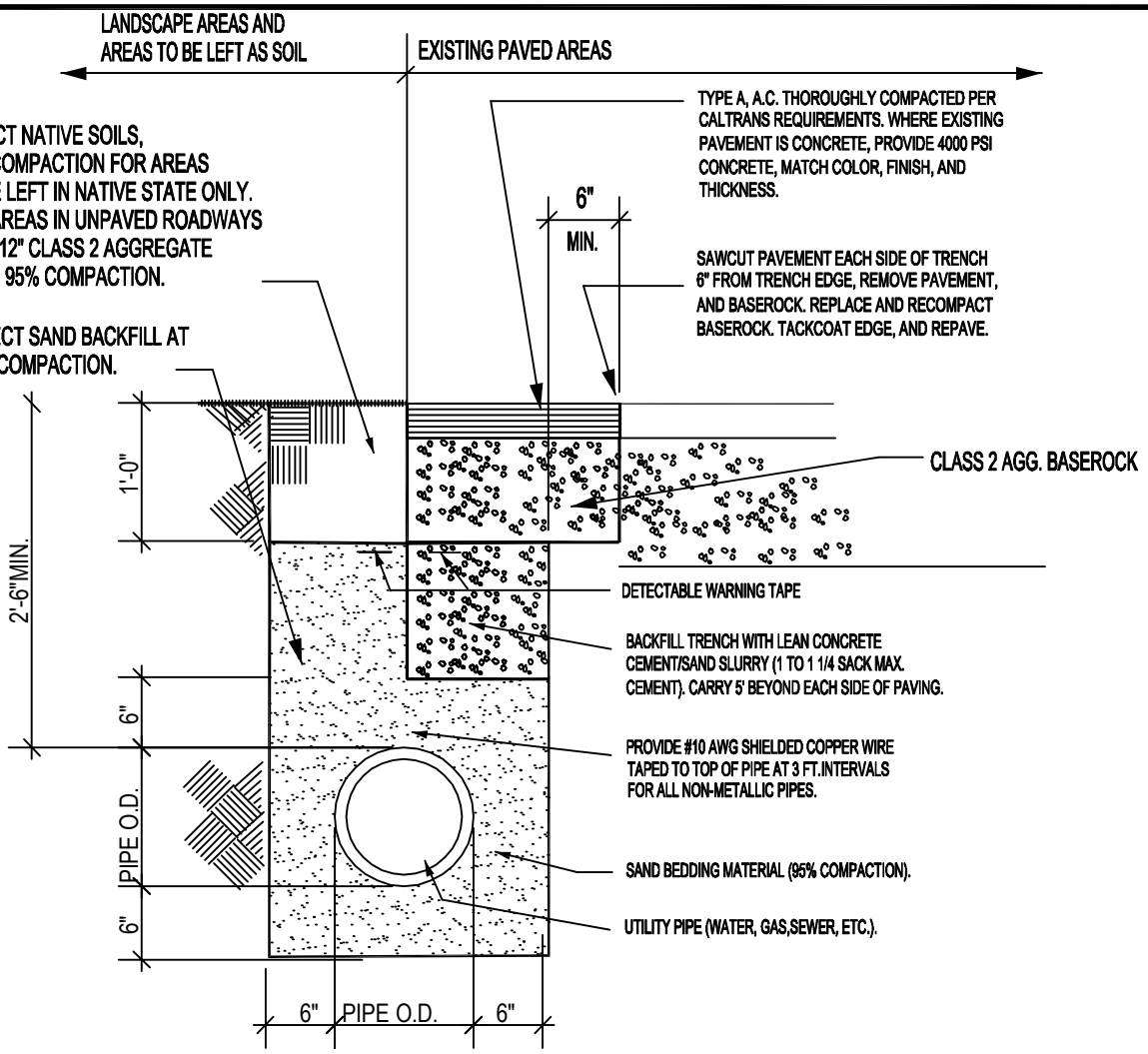
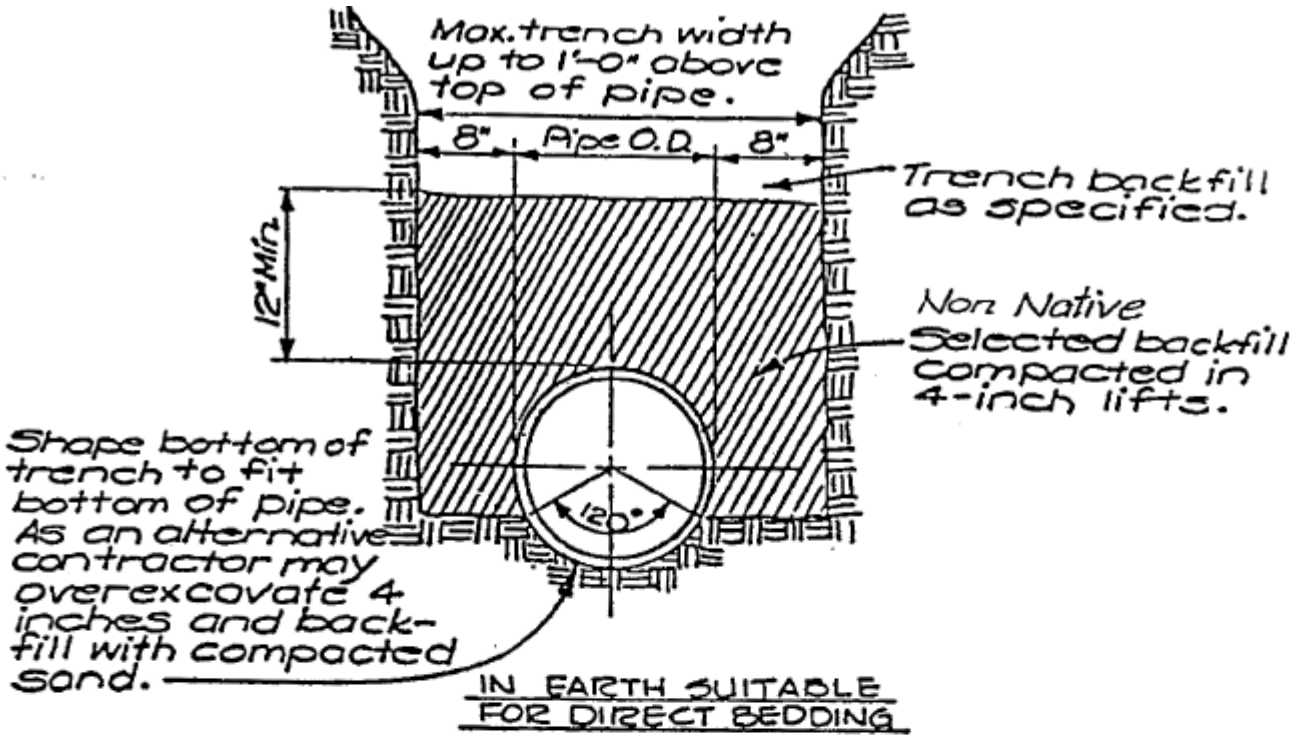


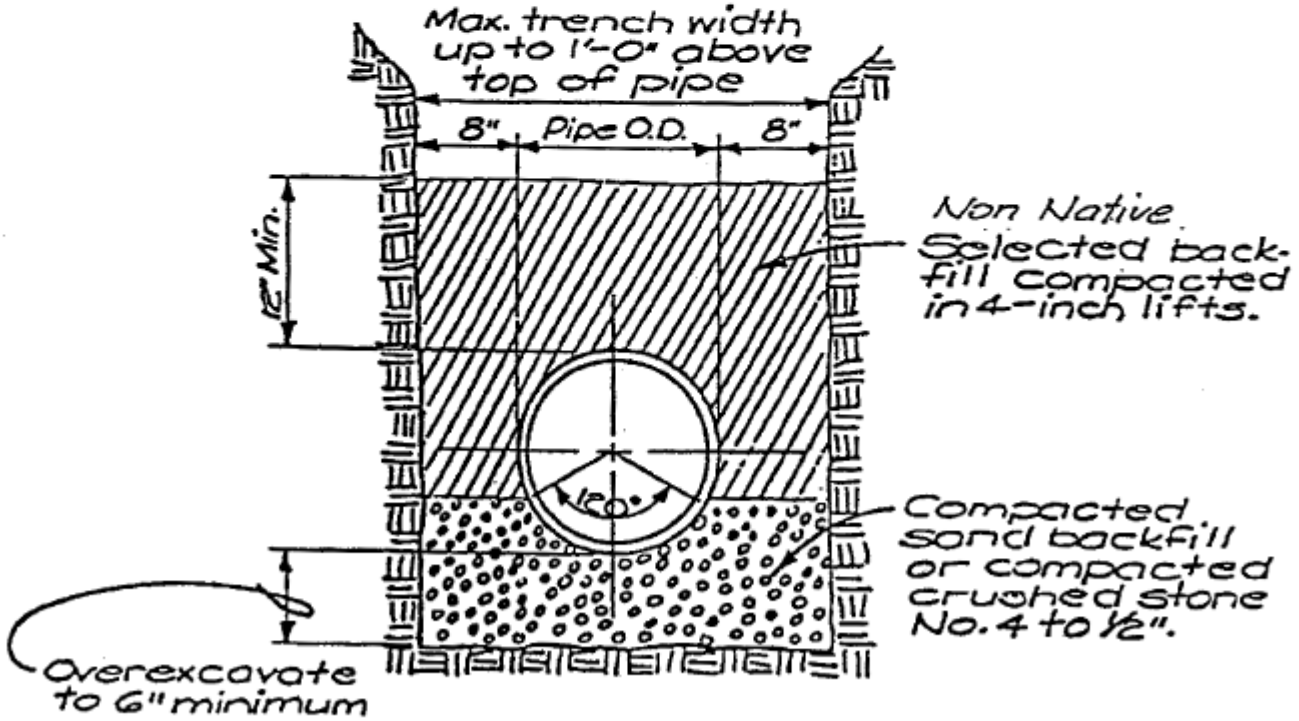
NOTES

1. UNLESS OTHERWISE NOTED OR SPECIFIED, MATERIALS AND INSTALLATION SHALL BE PER CALTRANS STANDARD SPECIFICATIONS, LATEST EDITION, REQUIREMENTS.
2. PROVIDE A.C. PAVEMENT SECTIONS AS FOLLOWS: UNLESS MORE STRINGENT STANDARD IN SPECIFICATION: PATHWAYS: 2" A.C. OVER 6" CLASS 2 BASE ROCK; ROADWAYS AND PARKING: 3" A.C. OVER 8" CLASS 2 BASE ROCK. INCREASE THE THICKNESS OF A.C. AND AGGREGATE BASE TO MATCH EXISTING WHEN GREATER THAN INDICATED ON THIS DETAIL. A.C. SHALL BE HOT MIX TYPE 'A' ASPHALT CONCRETE: FOR PATHS, 3/8" MAX. AGGREGATE; FOR ROADS, 1/2" MAX. AGGREGATE.FOG SEAL AFTER INSTALLATION.
3. WHERE EXISTING PAVEMENT IS PORTLAND CEMENT CONCRETE, AND TRENCH SAW CUT WILL BE WITHIN 30" OF EXISTING CONCRETE JOINT, REMOVE AND REPLACE CONCRETE TO JOINT. MATCH EXISTING FINISH, AND THICKNESS, MINIMUM THICKNESS 4".
4. FOR TRENCH DEPTHS GREATER THAN 6.5 FEET, ONLY TOP FIVE (5) FEET OF TRENCH SHALL BE 95% COMPACTED SELECT SAND BACKFILL. THE REMAINDER SHALL BE 90% COMPACTED SELECT SAND BACKFILL.
5. UNIVERSITY'S REPRESENTATIVE SHALL INSPECT BOTTOM OF ALL TRENCHES BEFORE PIPE OR CONDUIT PLACEMENT AND BACKFILL.

UNIVERSITY OF CALIFORNIA SANTA CRUZ Physical Planning and Construction	SHEET TITLE: STANDARD UTILITY TRENCH DETAIL	DRAWN: GA	LOCATION:	FILE NO.: REF
		CHECKED: MDH	SCALE: N.T.S.	SHEET: 02.2-00
	BUILDING OR PROJECT: CAMPUS STANDARDS	APPROVED: PP&C	DATE: 01/27/1998	OF



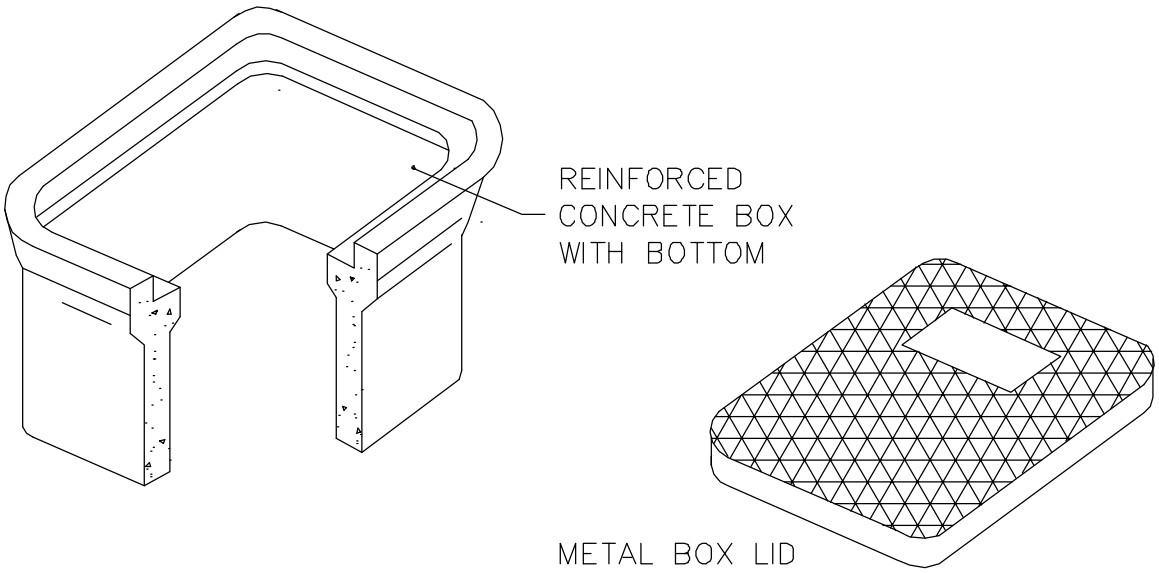
IN EARTH SUITABLE FOR DIRECT BEDDING

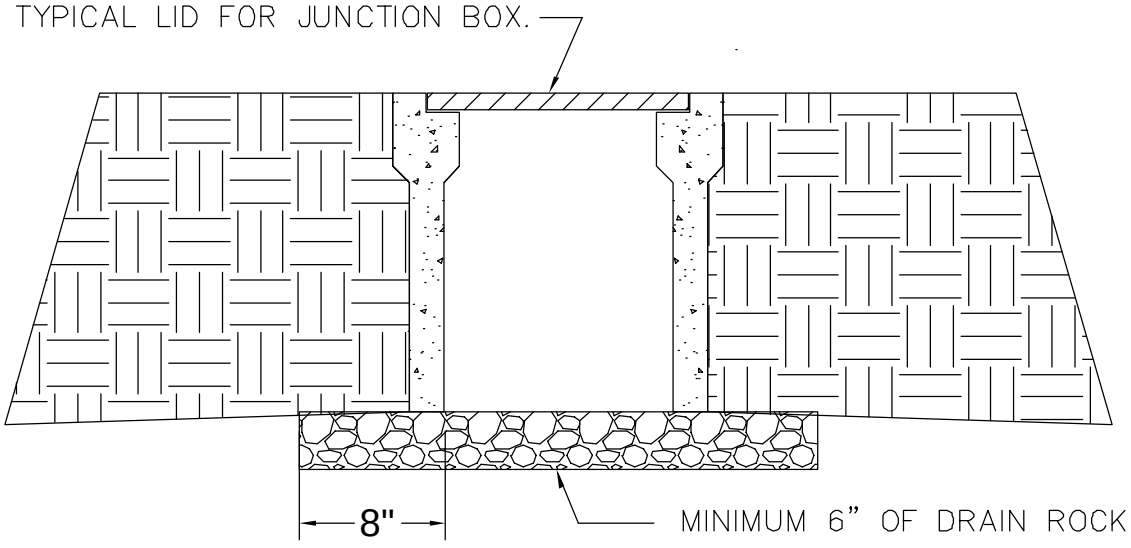


IN ROCK OR OTHER UNSUITABLE MATERIAL

Applicable for full length of barrel except for bell holes

UNIVERSITY OF CALIFORNIA SANTA CRUZ Physical Planning and Construction	SHEET TITLE: BEDDING FOR R.C. AND V.C.P.	DRAWN: ENG	LOCATION:	FILE NO.: REF
		CHECKED: AB	SCALE: N.T.S.	SHEET: 02-2-01
	BUILDING OR PROJECT: CAMPUS STANDARDS	APPROVED: PP&C	DATE: 06/01/2004	OF



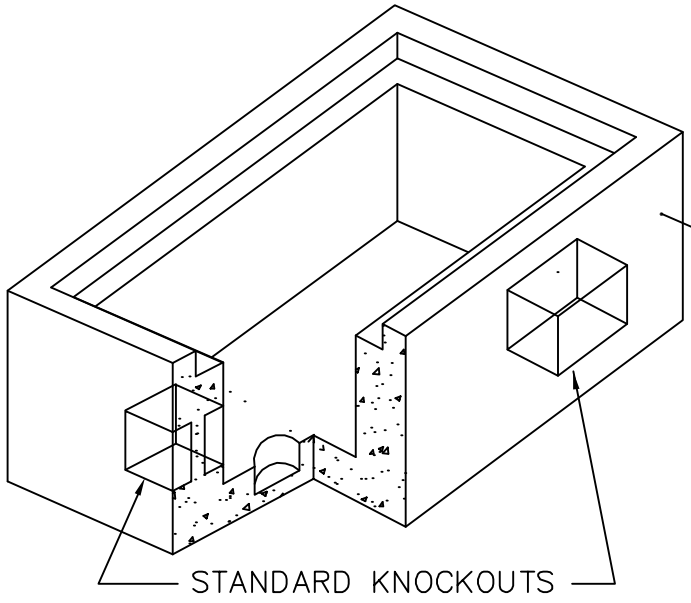


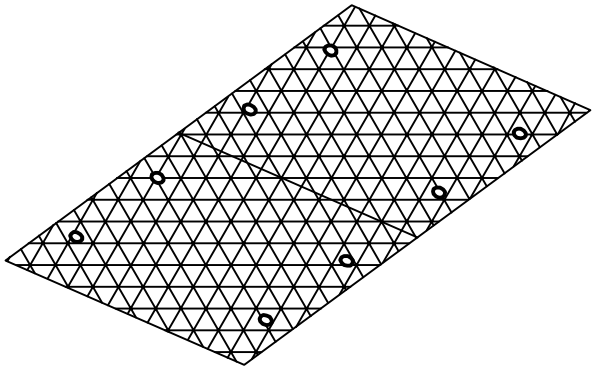
UTILITY BOX – TYPICAL DETAIL

NOTES:

1. 12" X 20" MINIMUM BOX SIZE, WHERE REQUIRED DRAIN TO DAYLIGHT.
2. PROVIDE DRAIN ROCK at BOX BOTTOM, WHERE RODENT CONTROL REQUIRED PROVIDE CONCRETE BOTTOM
3. TYPICAL FOR AREAS ADJACENT TO OR WITHIN 10' OF VEHICULAR and PEDESTRIAN TRAFFIC.

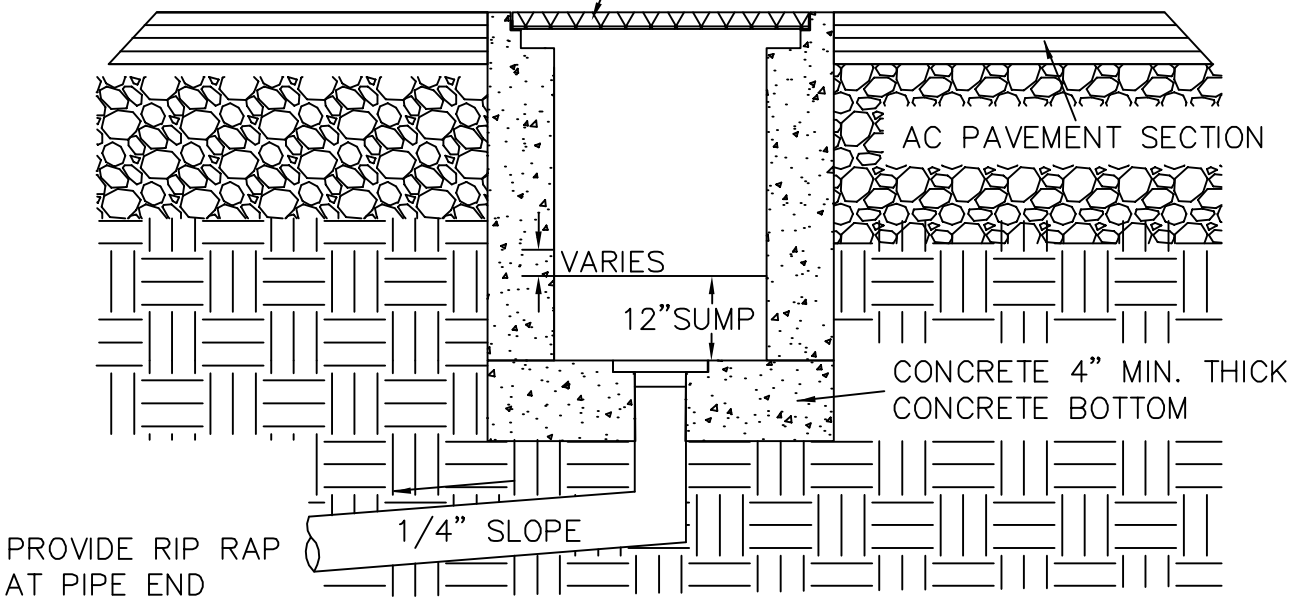
UNIVERSITY OF CALIFORNIA SANTA CRUZ Physical Planning and Construction	SHEET TITLE: UTILITY BOX TYPICAL DETAIL BUILDING OR PROJECT: CAMPUS STANDARDS	DRAWN: JO CHECKED: AB APPROVED: PP&C	LOCATION: SCALE: N.T.S. DATE: 3/01/04	FILE NO.: REF SHEET: 02.2-02 OF





TRAFFIC RATED H-20
SPRING ASSIST BOX LID

DRAIN INLET w/EXTENSIONS AS
NEEDED. USE CHECKERED STEEL
LID FOR JUNCTION BOX.

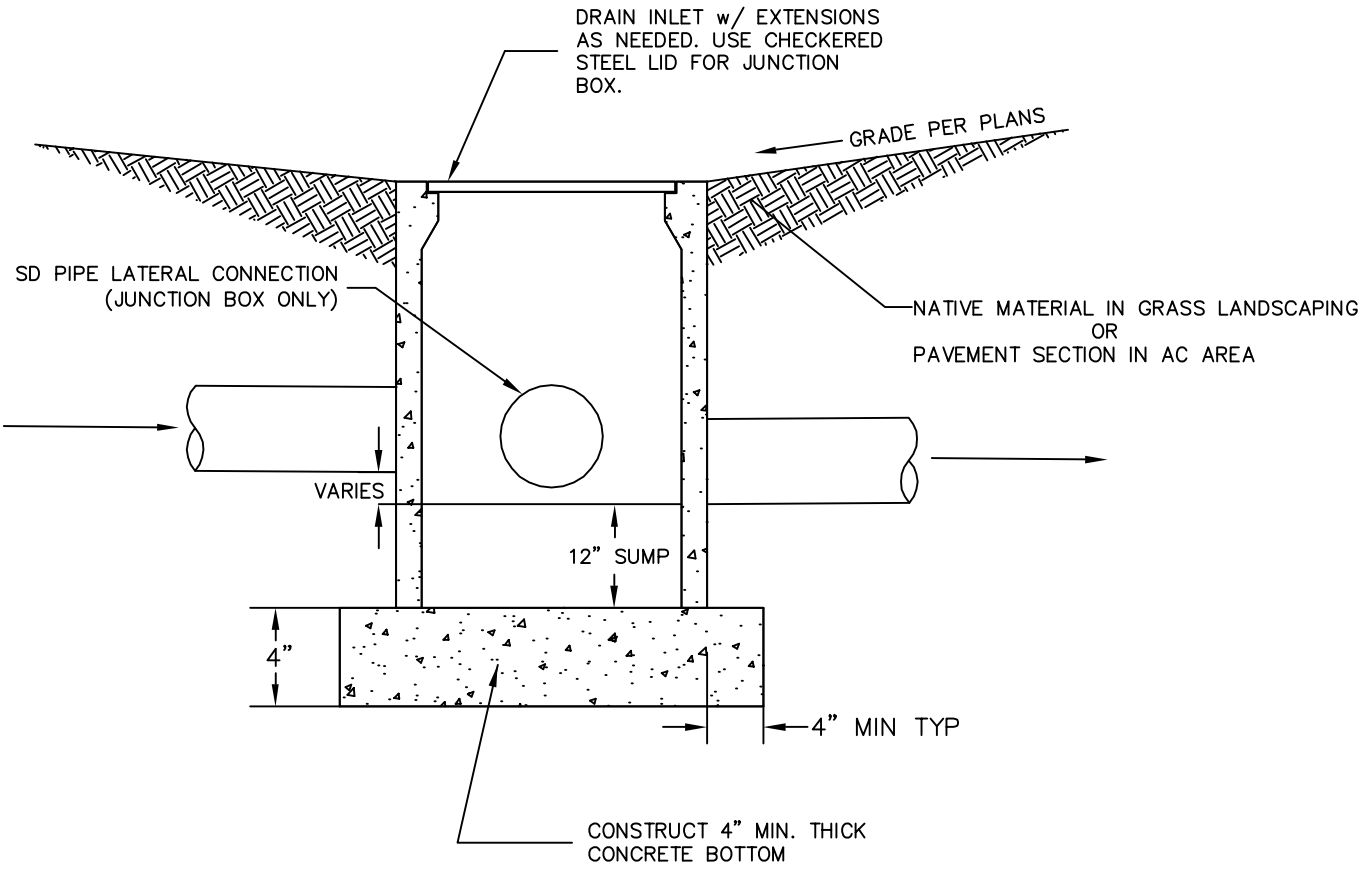


UTILITY BOX – HEAVY TRAFFIC RATED

NOTES:

1. 36" X 60" MINIMUM BOX SIZE, DRAIN TO DAYLIGHT.
2. ON SLOPE SITES WITH MULTIPLE BOXES WITH CONTINUOUS UTILITY RUNS BETWEEN BOXES, PROVIDE 3" PVC PIPE WITH MIN. 1/4" SLOPE.
3. PROVIDE SCREW DOWN LID.

UNIVERSITY OF CALIFORNIA SANTA CRUZ Physical Planning and Construction	SHEET TITLE: UTILITY BOX HEAVY TRAFFIC BUILDING OR PROJECT: CAMPUS STANDARDS	DRAWN: JO CHECKED: AB APPROVED: PP&C	LOCATION: SCALE: N.T.S. DATE: 3/01/04	FILE NO.: REF SHEET: 02.2-03 OF

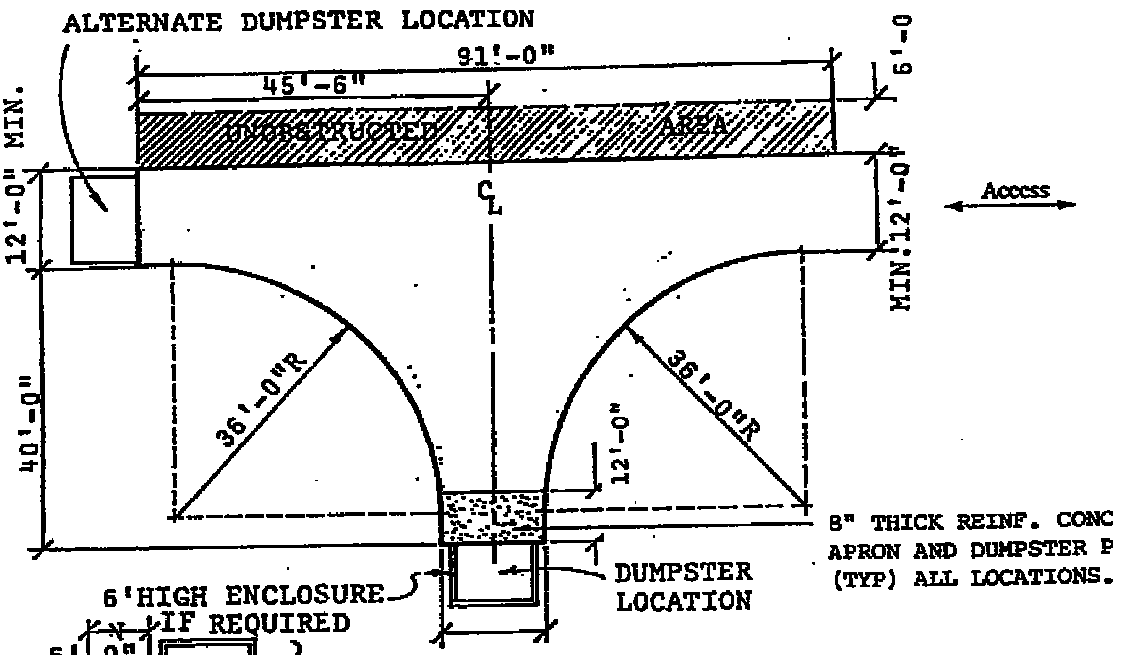


DRAIN INLET DETAIL AND JUNCTION BOX DETAIL

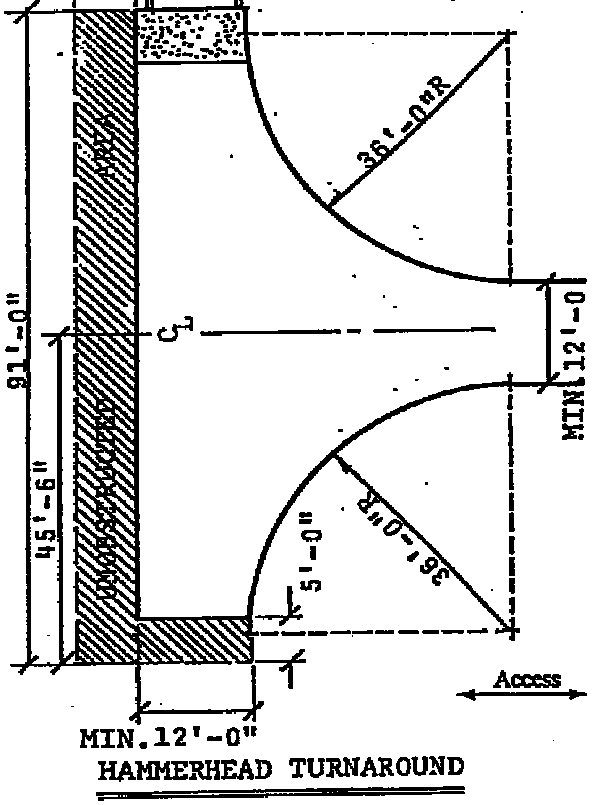
NOTES:

1. MINIMUM 18"x19-1/2" NON TRAFFIC (LANDSCAPE AREAS) NOT WITHIN 5' OF ROADWAYS OR PEDESTRIAN WALKWAYS
2. MINIMUM 18-3/8"x18-3/8" TRAFFIC AREAS - CONSISTS OF ROADWAYS, SERVICE ROADS AND PEDESTRIAN WALKWAYS ACCESSIBLE BY VEHICULAR TRAFFIC
3. NON-TRAFFIC AREAS THICKNESS OF BOTTOM MAY BE REDUCED TO 2" OR PROVIDE FACTORY MADE BOTTOM.
4. AS DEPTH INCREASES BEYOND 2' INCREASE OPENING FOR ACCESS.

UNIVERSITY OF CALIFORNIA SANTA CRUZ Physical Planning and Construction	SHEET TITLE: CATCH BASIN BUILDING OR PROJECT: CAMPUS STANDARDS	DRAWN: ENG CHECKED: AB APPROVED: PP&C	LOCATION: SCALE: N.T.S. DATE: 5/31/04	FILE NO.: REF SHEET: 02.2-04 OF



"L" SHAPED TURNAROUND

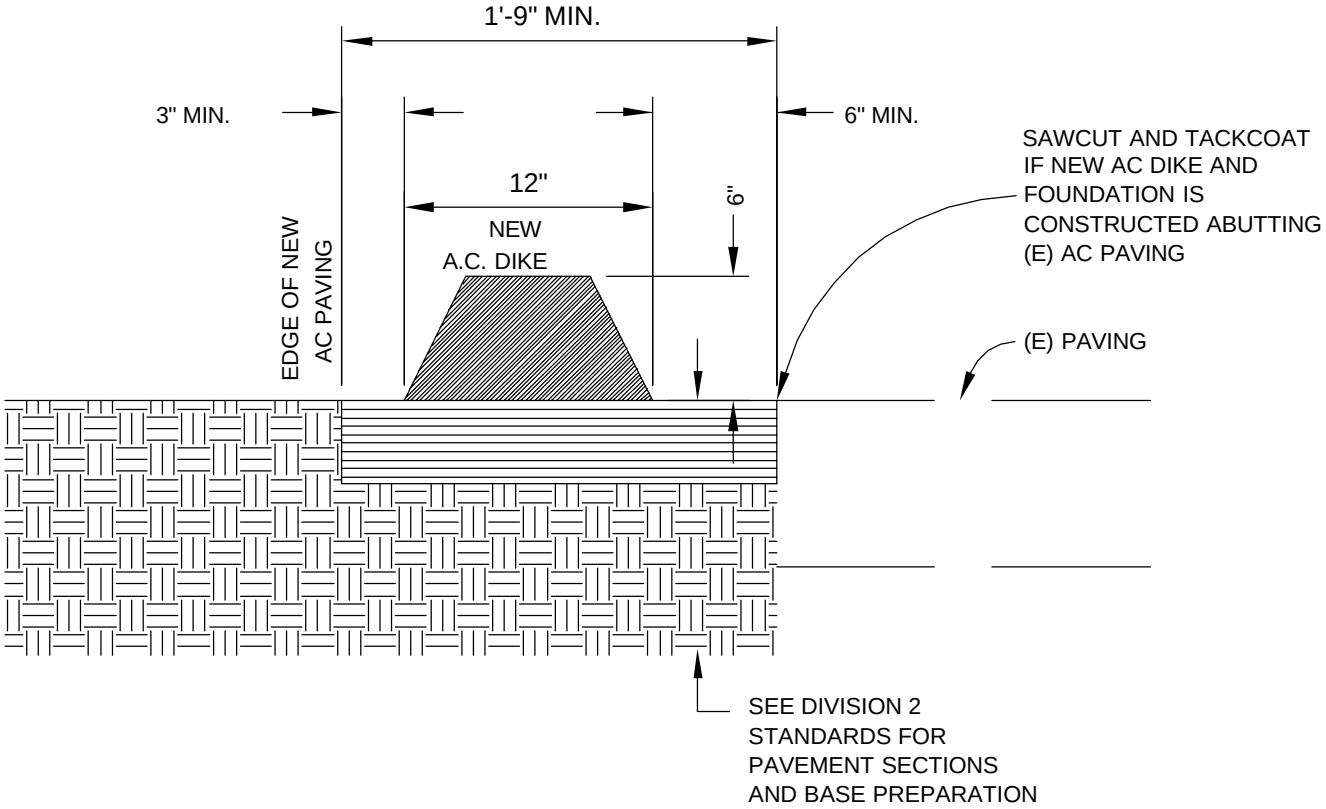


HAMMERHEAD TURNAROUND

NOTES:

1. ALL DIMENSIONS ARE TO INSIDE FACE OF CURB.
2. TYPICAL INSIDE CLEAR DIMENSIONS REQUIRED FOR DUMPSTER AREAS:
   SINGLE: 7'-0"x10'-0"
   DOUBLE: 7'-0"x18'-0"
3. VERIFY RECYCLING REQUIREMENTS WITH UNIVERSITY'S REPRESENTATIVE.
4. UNOBSTRUCTED AREAS: ELEVATIONS NOT TO EXCEED TOP OF CURB ELEVATION. NO PAVING REQUIRED.
5. A VARIATION FROM THIS STANDARD CAUSING MORE THAN A THREE POINT TURN BY THE REFUSE TRUCK IS UNACCEPTABLE.
6. VERIFY ENCLOSURE CONSTRUCTION MATERIALS WITH UNIVERSITY'S REPRESENTATIVE.
   -GROUTED BLOCK WALL
   -WOOD
   -CHAIN LINK

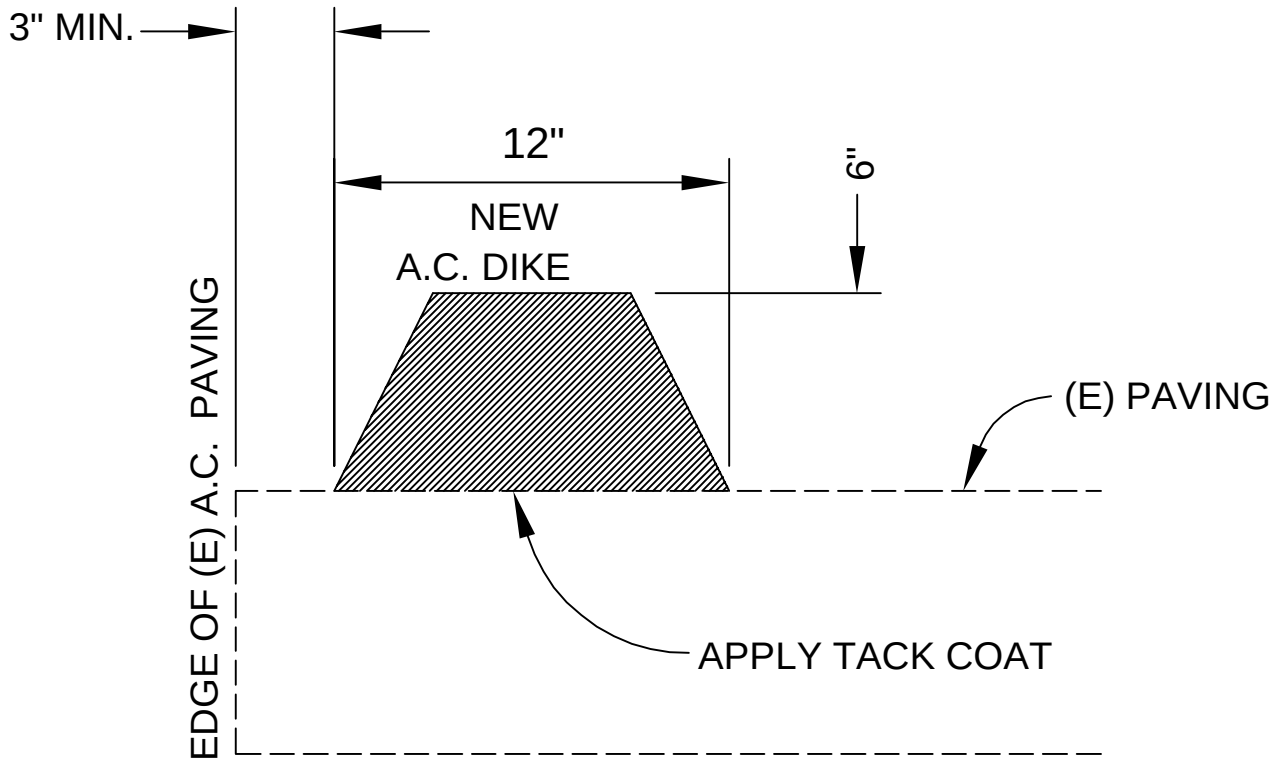
UNIVERSITY OF CALIFORNIA SANTA CRUZ Physical Planning and Construction	SHEET TITLE: MINIMUM TURNAROUND AREA - REFUSE TRUCK	DRAWN: MH/AB	LOCATION:	FILE NO.: REF
		CHECKED: MH/SK	SCALE: N.T.S.	SHEET: 02.5-10
	BUILDING OR PROJECT: CAMPUS STANDARDS	APPROVED: PP&C	DATE: 09/27/91	OF



NOTES:

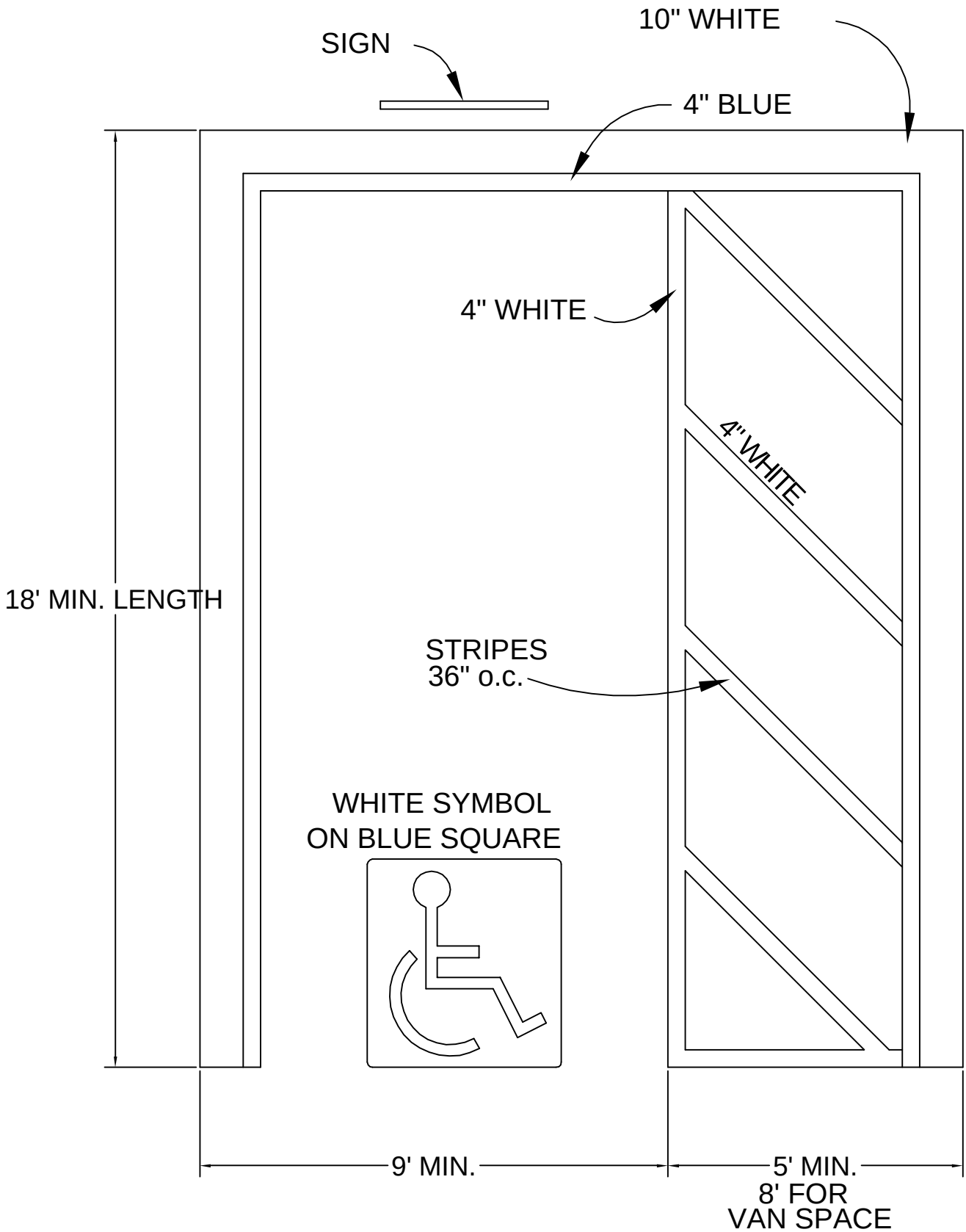
1. SLOPE ALL AREAS TO DRAIN.

UNIVERSITY OF CALIFORNIA SANTA CRUZ Physical Planning and Construction	SHEET TITLE: A.C. DIKE AND A.C. FOUNDATION BUILDING OR PROJECT: CAMPUS STANDARDS	DRAWN: ENG CHECKED: AB APPROVED: PP&C	LOCATION: SCALE: N.T.S. DATE: 11/12/03	FILE NO.: REF SHEET: 02.5-25 OF

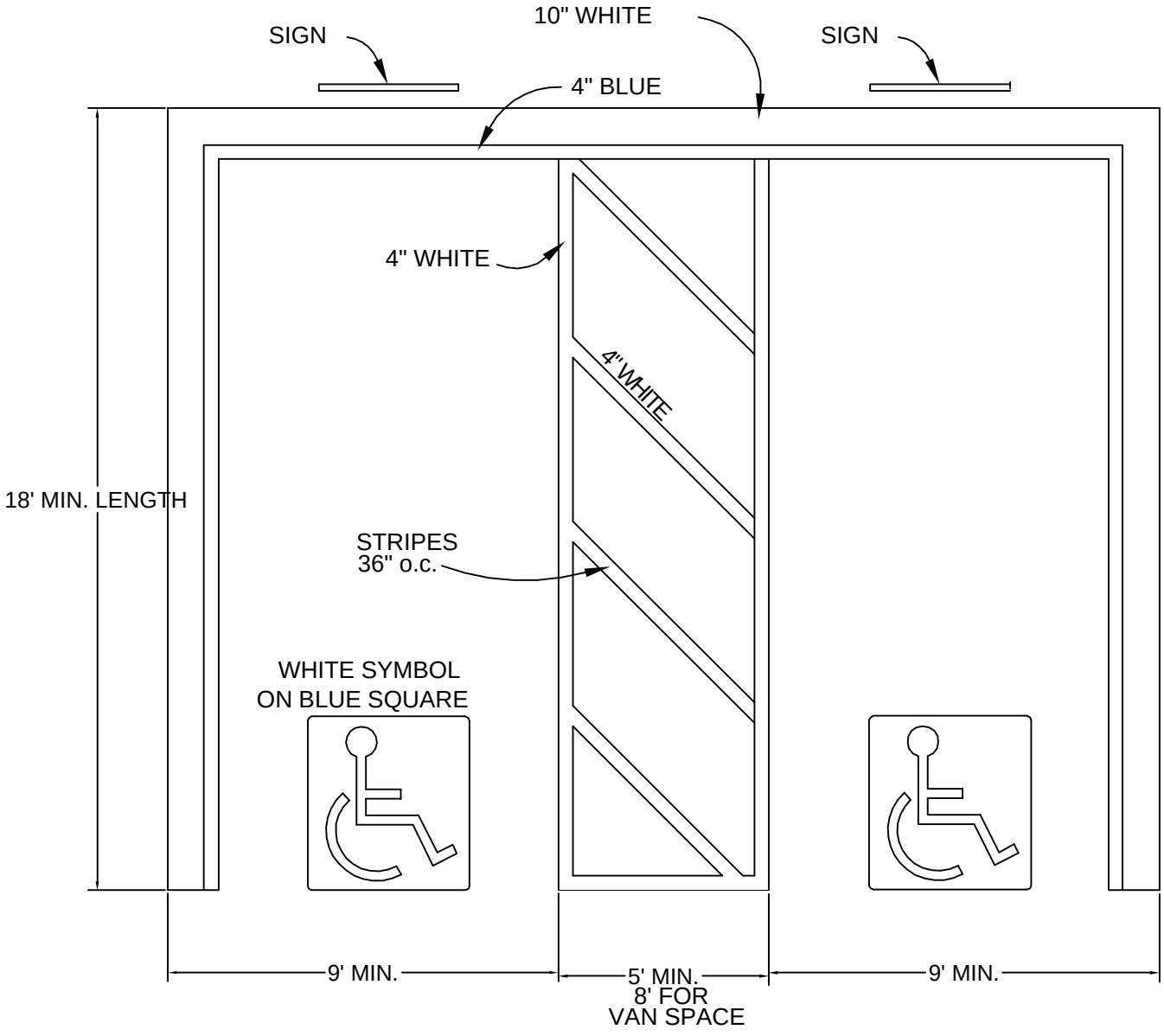


NOTES:
1. SEE DETAIL 02.5-25.

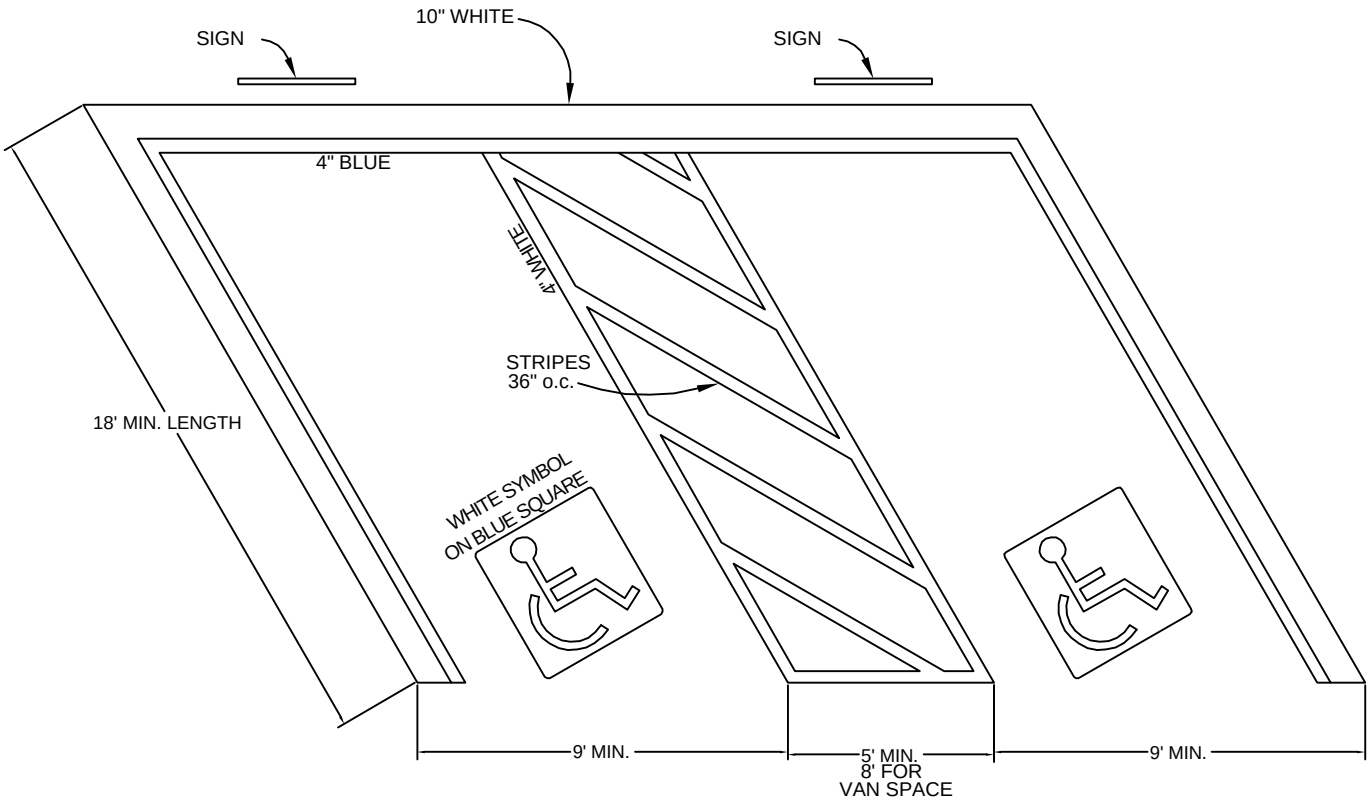
UNIVERSITY OF CALIFORNIA SANTA CRUZ Physical Planning and Construction	SHEET TITLE: A.C. DIKE ON EXIST. A.C. FOUNDATION	DRAWN: ENG	LOCATION:	FILE NO.: REF
	BUILDING OR PROJECT: CAMPUS STANDARDS	CHECKED: AB	SCALE: N.T.S.	SHEET: 02.5-26
		APPROVED: PP&C	DATE: 11/12/03	OF



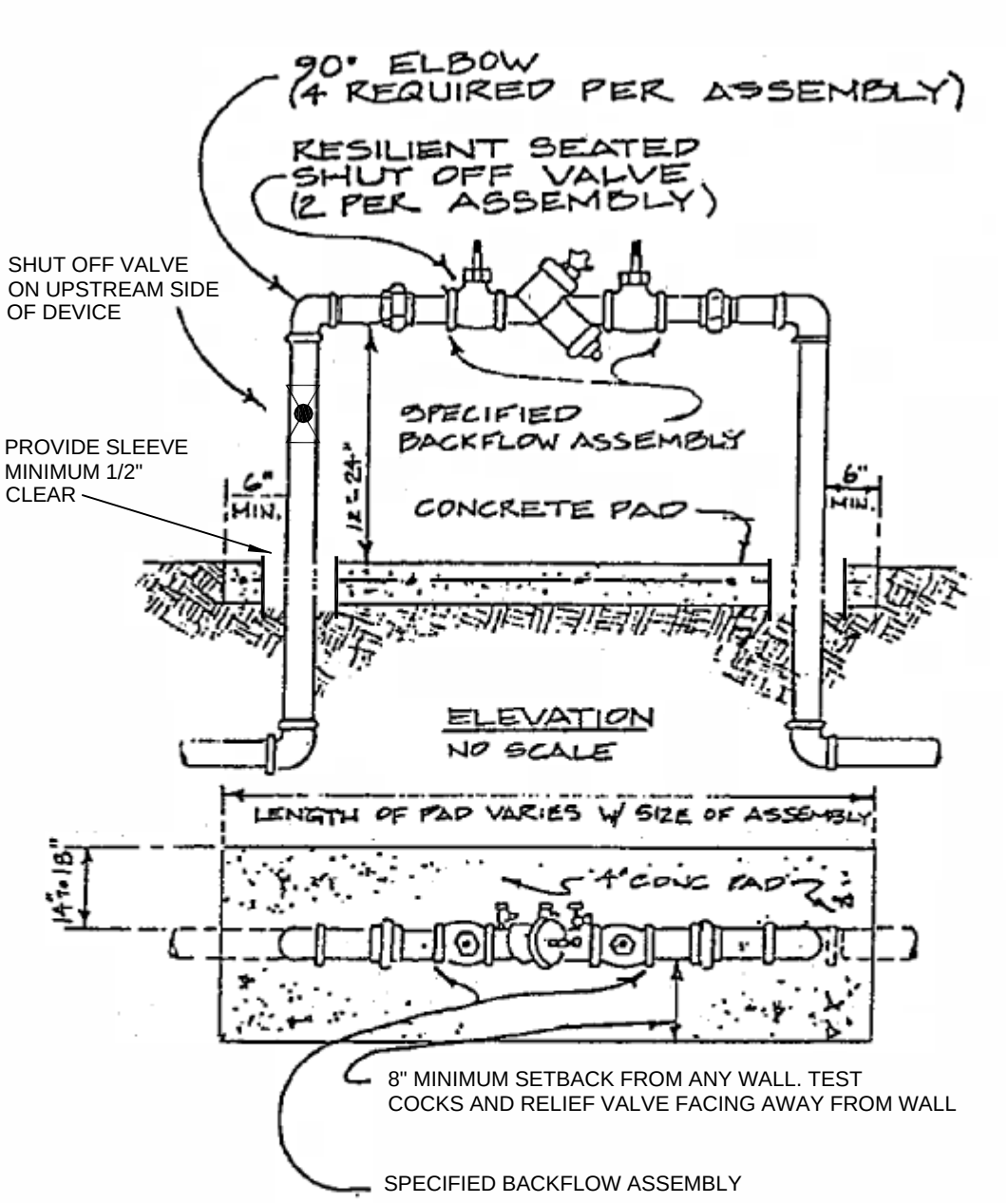
UNIVERSITY OF CALIFORNIA SANTA CRUZ Physical Planning and Construction	SHEET TITLE: PARKING ACCESS 90° SINGLE SPACE	DRAWN: OAC	LOCATION:	FILE NO.: REF
		CHECKED: SW	SCALE: N.T.S.	SHEET: 02.5-80
	BUILDING OR PROJECT: CAMPUS STANDARDS	APPROVED: JT/TAPS	DATE: 04/15/96	OF



UNIVERSITY OF CALIFORNIA SANTA CRUZ Physical Planning and Construction	SHEET TITLE: PARKING ACCESS 90° DOUBLE SPACE BUILDING OR PROJECT: CAMPUS STANDARDS	DRAWN: OAC CHECKED: SW APPROVED: JT/TAPS	LOCATION: SCALE: N.T.S. DATE: 04/15/96	FILE NO.: REF SHEET: 02.5-81 OF



UNIVERSITY OF CALIFORNIA SANTA CRUZ Physical Planning and Construction	SHEET TITLE PARKING ACCESS 60° DOUBLE SPACE	DRAWN DT	LOCATION	FILE NO. REF
		CHECKED SW	SCALE N.T.S.	SHEET 02.5-82
	BUILDING OR PROJECT CAMPUS STANDARDS	APPROVED JT/TAPS	DATE 01/02/03	OF

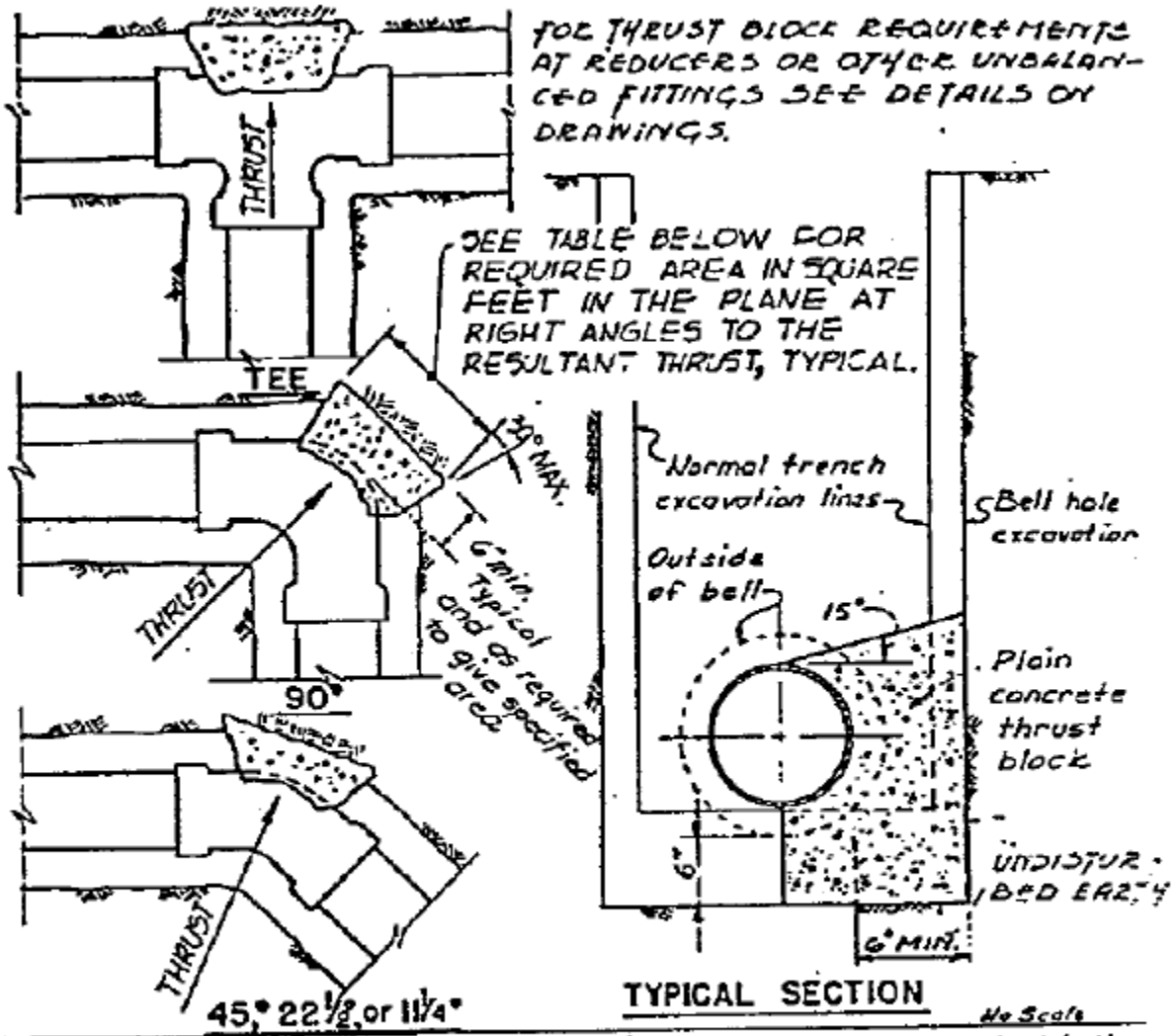


PLAN

NOTES:

1. METER BOX & METER: SEE SPECIFICATIONS
2. MINIMUM COVER OVER SERVICE PIPE SHALL BE 30"
3. BACKFLOW PREVENTION ASSEMBLY SHALL BE INSTALLED SUCH THAT IT IS READILY ACCESSIBLE FOR REPAIR AND INSPECTION
4. ALL FITTINGS AND ASSEMBLIES 4" AND LARGER SHALL BE FLANGED
5. SEE DETAIL 02.6-60

UNIVERSITY OF CALIFORNIA SANTA CRUZ Physical Planning and Construction	SHEET TITLE: BACKFLOW PREVENTION BUILDING OR PROJECT: CAMPUS STANDARDS	DRAWN: AB CHECKED: HGH APPROVED: PP&C	LOCATION: SCALE: N.T.S. DATE: 11/12/03	FILE NO.: REF SHEET: 02.6-00 OF



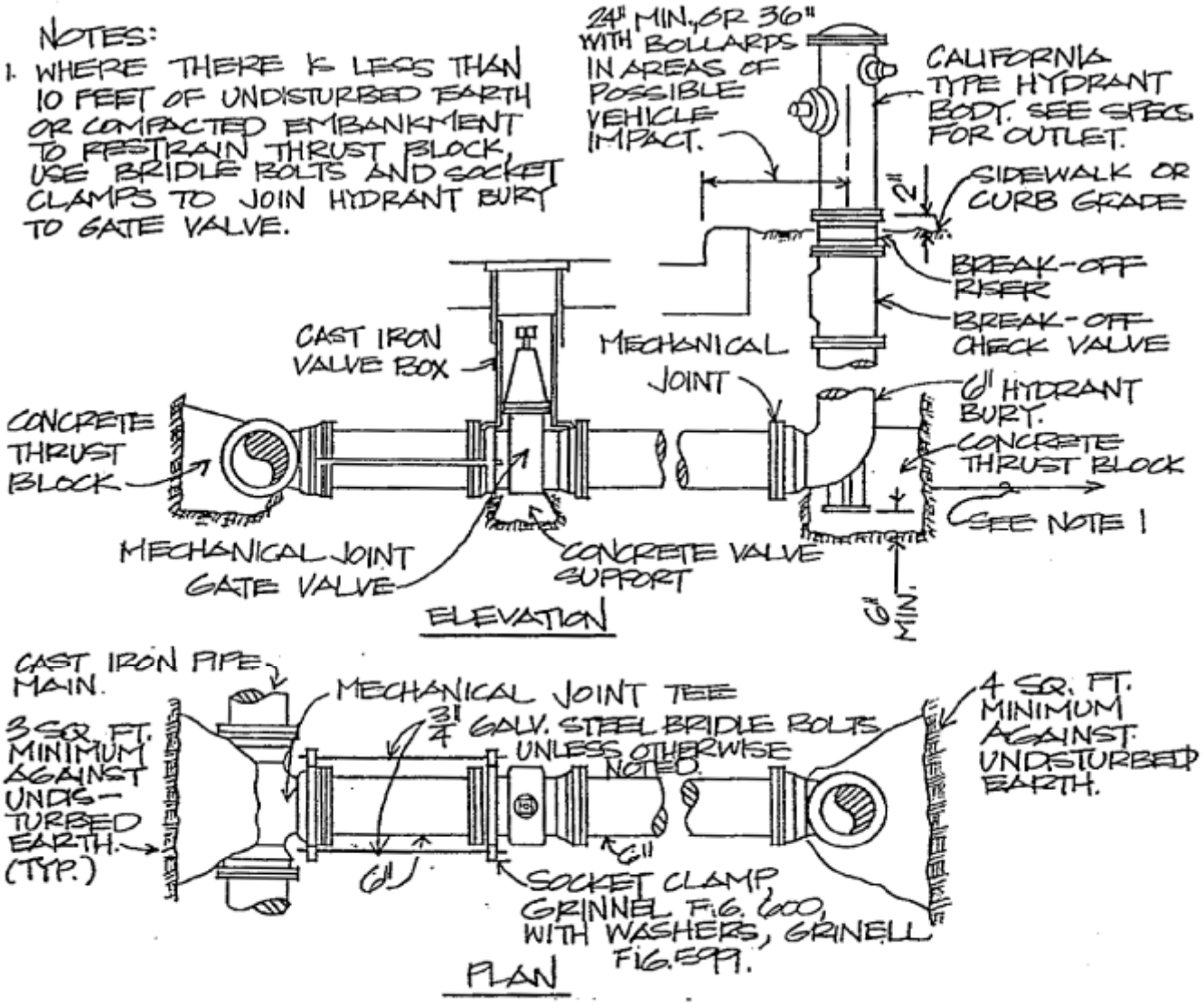
Minimum Required Bearing Area Against Undisturbed Earth Wall

Pipe Size	Area in Square Feet for Fittings				
	Tee	90°	45°	22½°	11¼°
6	3	4	2	2	2
8	5	7	4	3	3
12	11.25	7	8.75	4.5	3

NOTES:

1. CAPS AND PLUGS SHALL HAVE THRUST BLOCKS WITH AREA AS SPECIFIED FOR TEES. CAPS & PLUGS SHALL BE COVERED WITH TAR PAPER BEFORE THRUST BLOCKS ARE POURED.
2. FOR USE WHERE DESIGN WORKING PRESSURE IS 200 PSI OR LESS AND ALLOWABLE SOIL PRESSURE IS 1500 PSF OR MORE.
3. THRUST BLOCKS MAY NOT BE REQUIRED WHEN MECHANICALLY DESIGNED RESTRAINED PIPING SYSTEMS ARE ALLOWED.

UNIVERSITY OF CALIFORNIA SANTA CRUZ Physical Planning and Construction	SHEET TITLE: THRUST BLOCK	DRAWN: ENG	LOCATION:	FILE NO.: REF
		CHECKED: AB	SCALE: N.T.S.	SHEET: 02.6-01
	BUILDING OR PROJECT: CAMPUS STANDARDS	APPROVED: PP&C	DATE: 5/31/04	OF



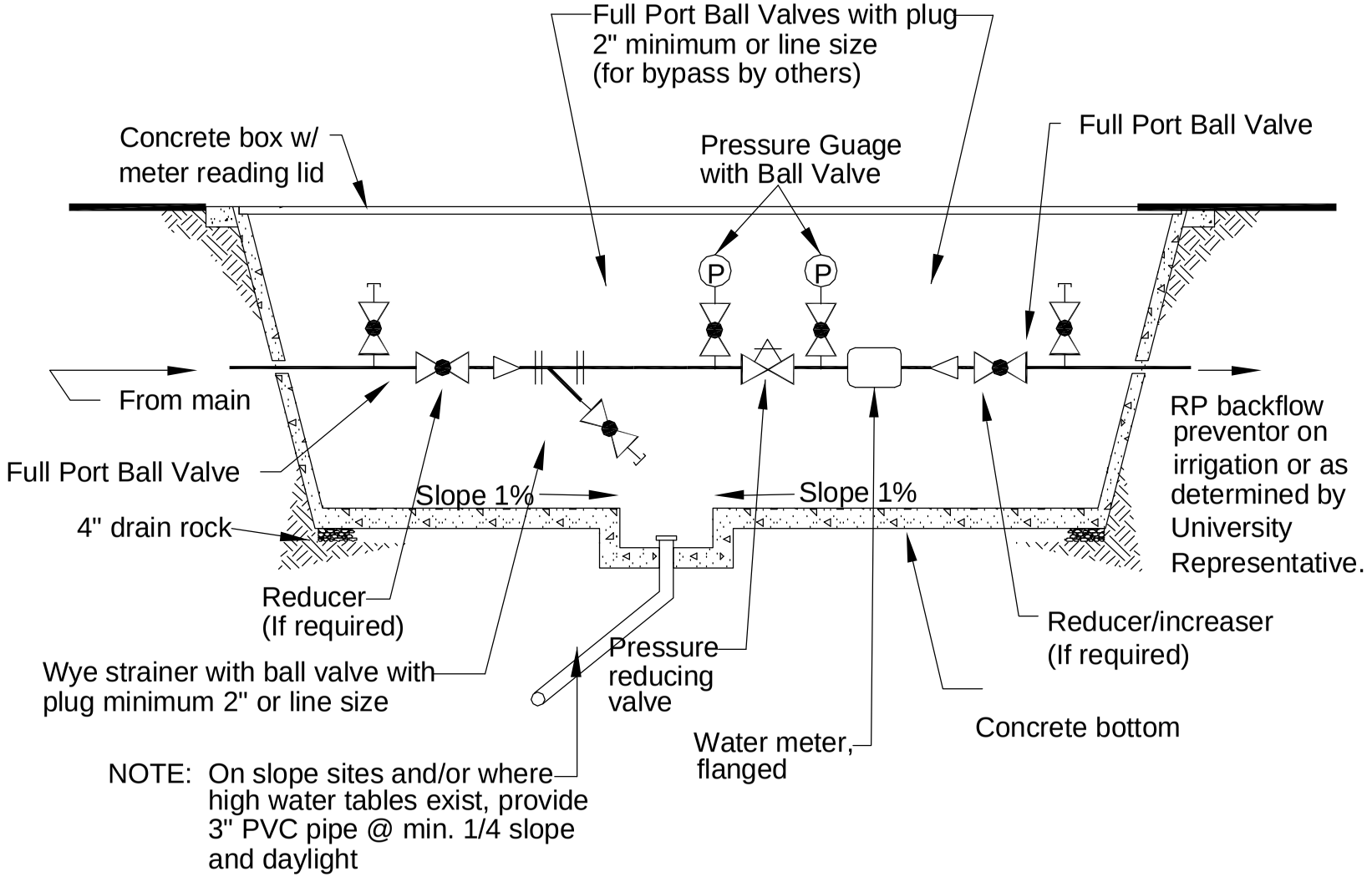
NOTES:

1. THRUST BLOCK SIZE TO BE DETERMINED BY NFPA 24 REQUIREMENTS. SIZES SHOWN ABOVE ARE MINIMUM SIZE ONLY. REFER TO PLANS AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. ALL FERROUS METALS SHALL BE COATED WITH BITUMINOUS PIPE COATING COMPOUND.

UNIVERSITY OF CALIFORNIA SANTA CRUZ Physical Planning and Construction	SHEET TITLE: FIRE HYDRANT INSTALLATION	DRAWN: MP	LOCATION:	FILE NO.: REF
		CHECKED: HGH	SCALE: N.T.S.	SHEET: 02.6-45
	BUILDING OR PROJECT: CAMPUS STANDARDS	APPROVED: PP&C	DATE: 04/29/93	OF

NOTES:

1. SEE DETAIL 02.3-03
2. WHEN ABOVE GRADE INSTALLATIONS ALLOWS, PROVIDE HOUSEKEEPING PAD PER DETAIL 02.6-00, INSTEAD OF UTILITY BOX.



UNIVERSITY OF CALIFORNIA
SANTA CRUZ
Physical Planning and Construction

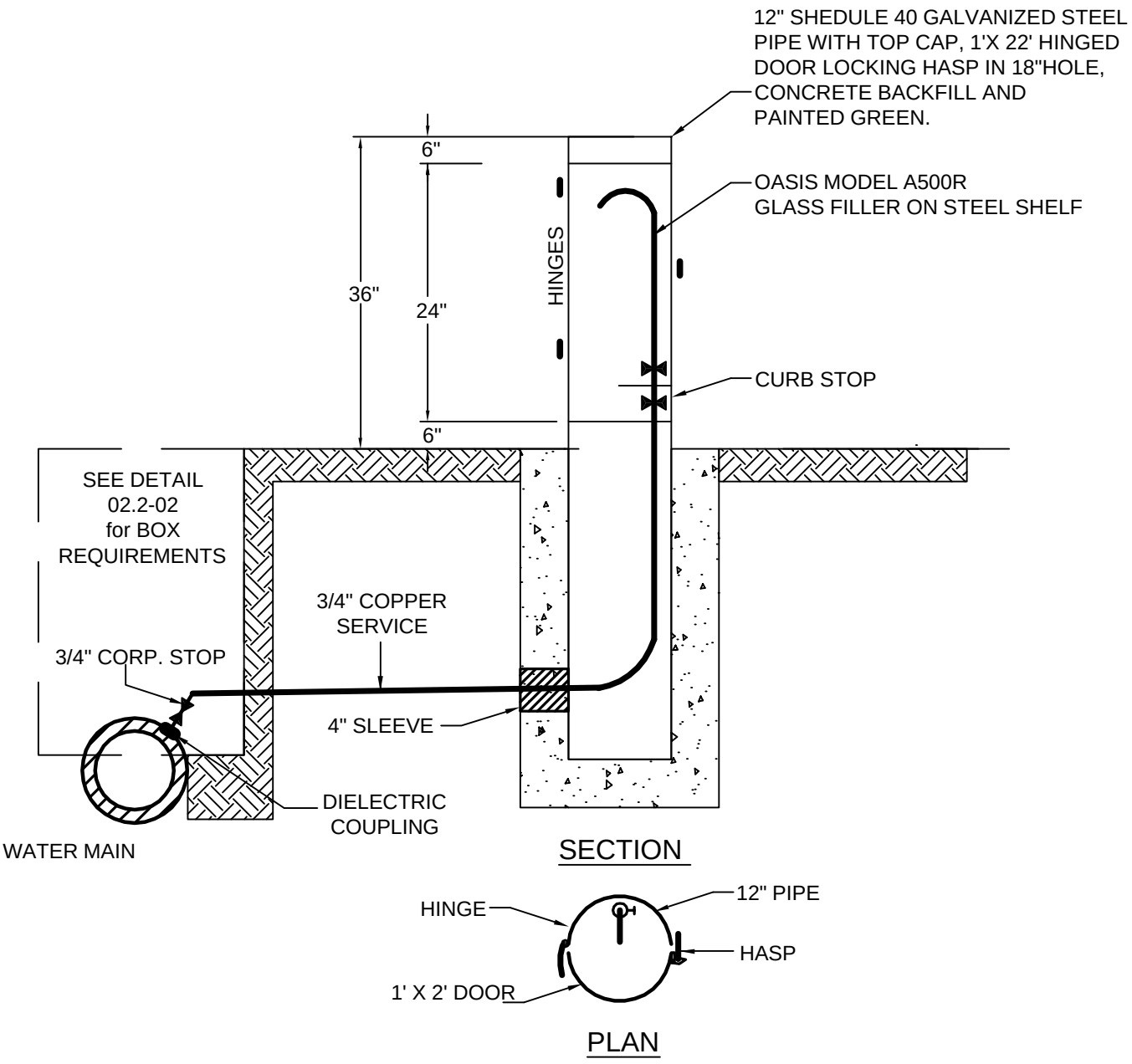
SHEET TITLE: WATER METER ASSEMBLY

BUILDING OR PROJECT: CAMPUS STANDARDS

DRAWN	CHECKED	APPROVED
OAC	AB	PP&C

LOCATION	SCALE	DATE
	N.T.S.	10/16/03

FILE NO.	SHEET	OF
REF	02.6-60	

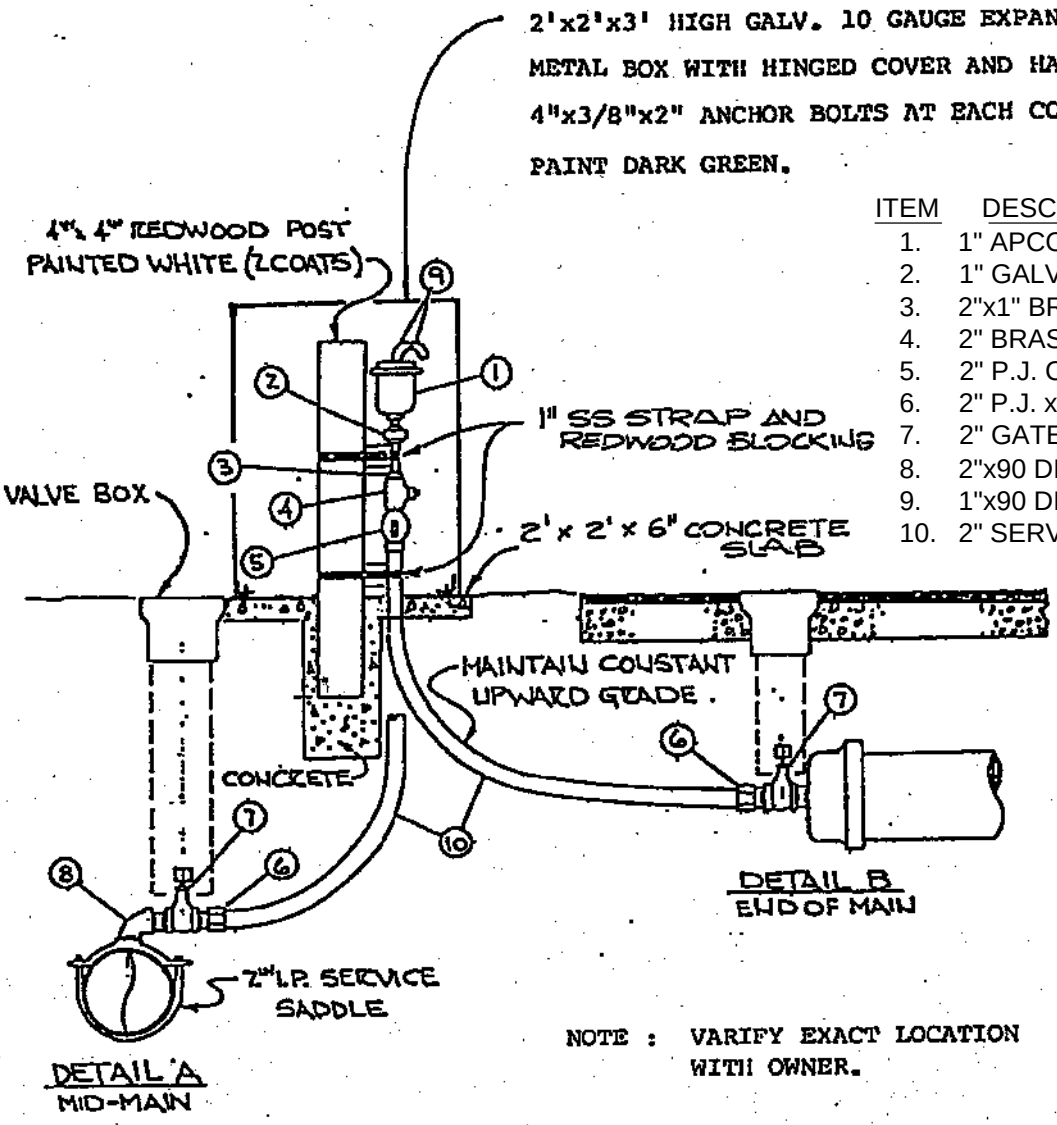


ENVIRONMENTAL HEALTH AND SAFETY
WATER SAMPLE STATION

NOTES:

1. SEE DETAIL 02.6-76 AIR RELEASE.
2. SEE DETAIL 02.6-77 CORPORTATION STOP.

UNIVERSITY OF CALIFORNIA SANTA CRUZ Physical Planning and Construction	SHEET TITLE: WATER SAMPLE STATION	DRAWN: AB/JO	LOCATION:	FILE NO.: REF
	BUILDING OR PROJECT: CAMPUS STANDARDS	CHECKED: WW/MH	SCALE: N.T.S.	SHEET: 02.6-75
		APPROVED: PP&C	DATE: 04/01/04	OF



ITEM	DESCRIPTION
1.	1" APCO #743C AIR RELEASE
2.	1" GALV. UNION
3.	2"x1" BRASS BUSHING
4.	2" BRASS TEE W/ 2" PLUG
5.	2" P.J. CORPORATION STOP
6.	2" P.J. x I.P. ADAPTEC
7.	2" GATE VALVE
8.	2"x90 DEG. STREET ELBOW
9.	1"x90 DEG. STREET ELBOW
10.	2" SERVICE PIPE

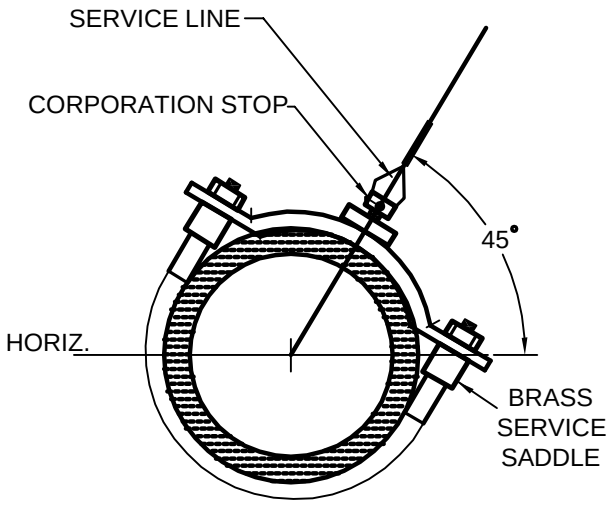
NOTE : VARIFY EXACT LOCATION WITH OWNER.

AIR RELEASE VALVE DETAIL

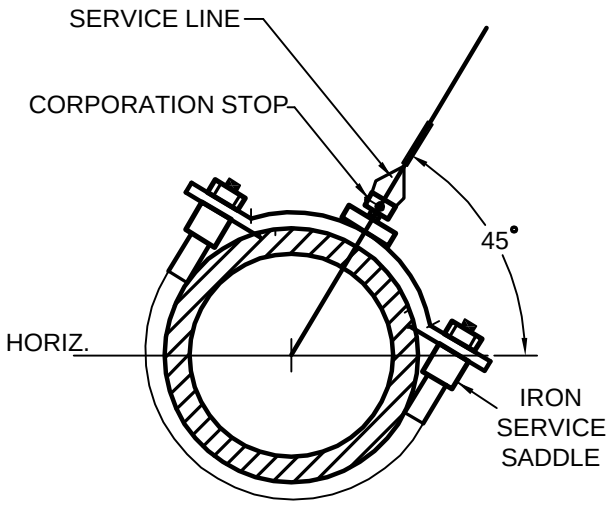
NOTES:

1. SEE DETAIL 02.6-01 FOR THRUST BLOCK REQUIREMENTS.

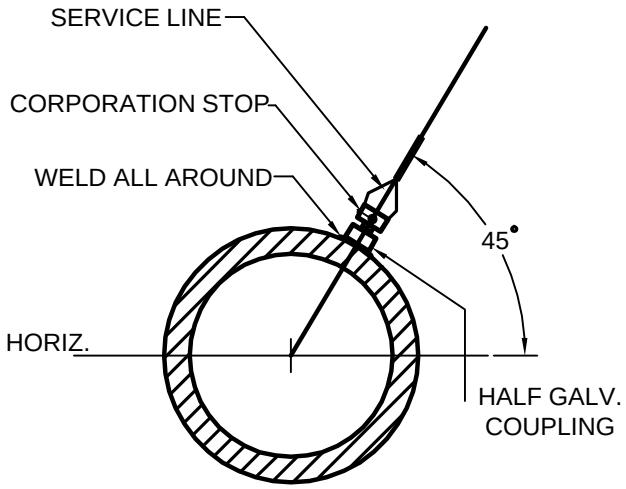
UNIVERSITY OF CALIFORNIA SANTA CRUZ Physical Planning and Construction	SHEET TITLE: AIR RELEASE VALVE	DRAWN: MF	LOCATION:	FILE NO.: REF
	BUILDING OR PROJECT: CAMPUS STANDARDS	CHECKED: AB/MDH	SCALE: N.T.S.	SHEET: 02.6-76
		APPROVED: PP&C	DATE: 08/24/92	OF



POLYVINYL CHLORIDE (PVC) OR
ASBESTOS CEMENT WATER MAIN



CAST OR DUCTILE IRON
WATER MAIN

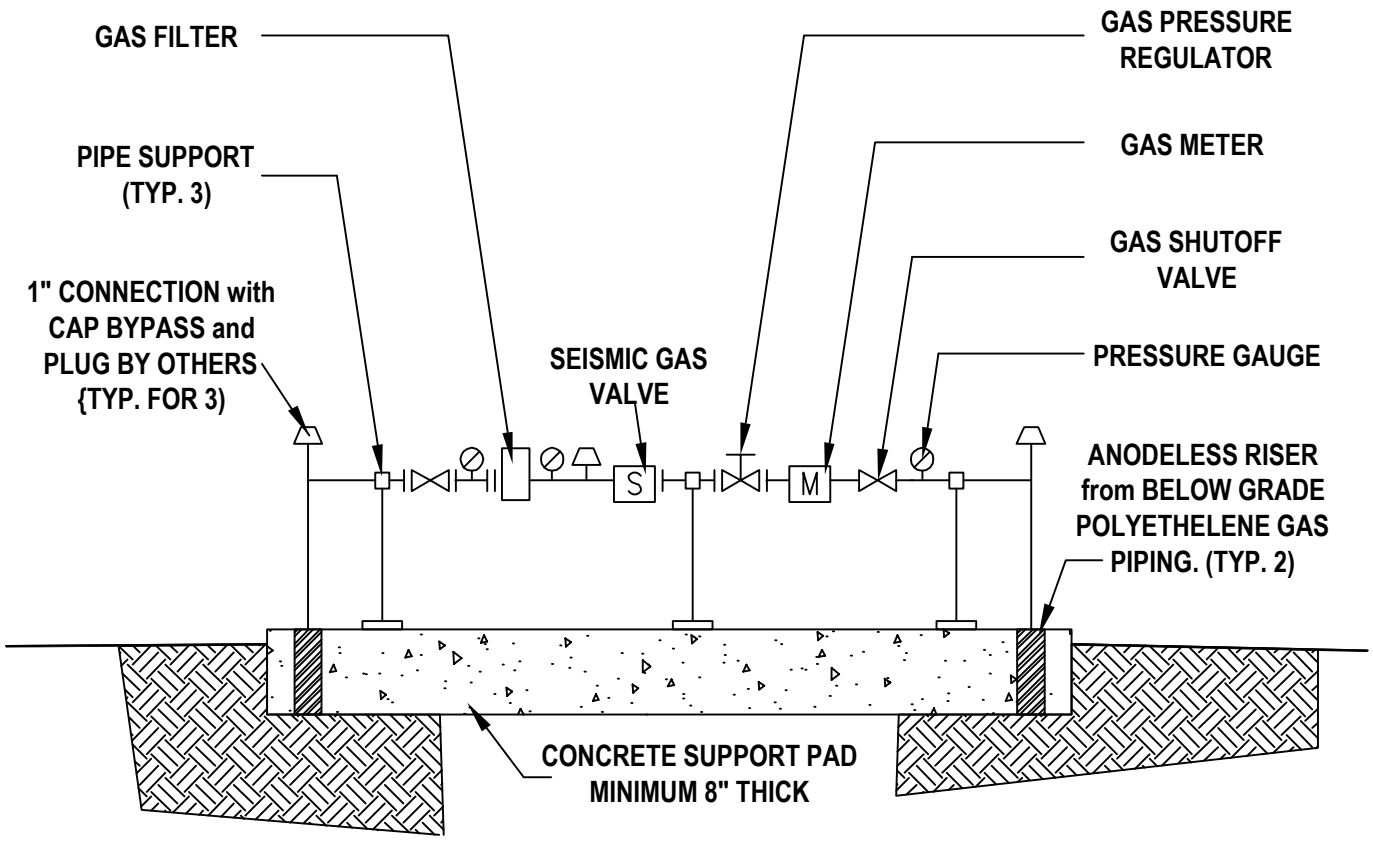


WELDED STEEL WATER MAIN

NOTES:
1. ON A.C..and C.I. PIPES USE DOUBLE STRAP SERICE SADDLES FOR 3/4" WATER SAMPLE STATION.
2. ON C-900 PVC PIPE USE FORD S90, OR EQUAL, SADDLE FOR 3/4" LINE.
3. WHEN SERVICE CONNECTION IS MADE ON WELDED STEEL MAIN COAT HALF COUPLING WITH SAME MATERIAL AS ON PIPE.
4. SEE DETAIL 02.6-75.

CORPORATION STOP CONNECTION

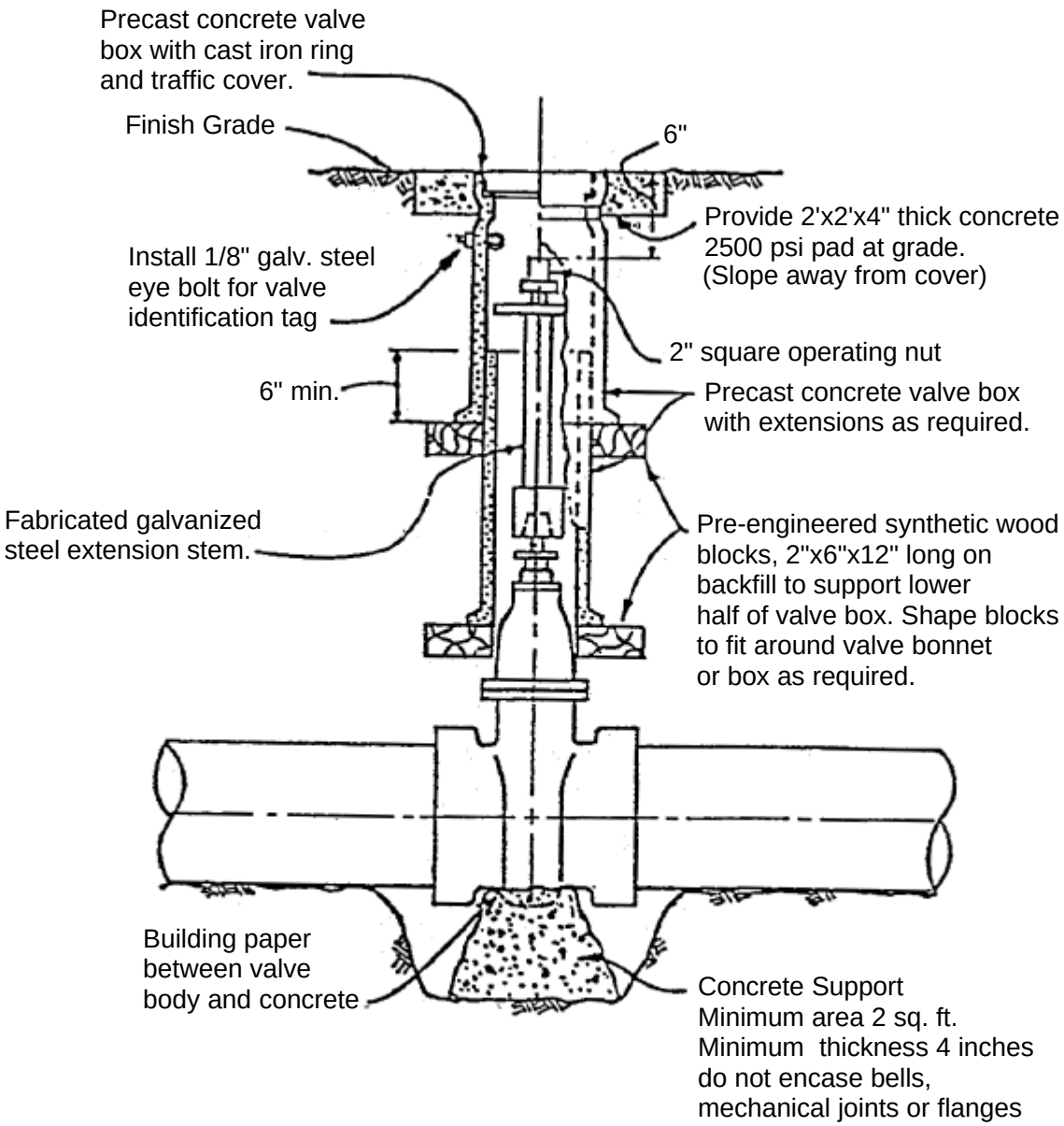
UNIVERSITY OF CALIFORNIA SANTA CRUZ Physical Planning and Construction	SHEET TITLE: CORPORATION STOP CONNECTION	DRAWN: AB/JO	LOCATION:	FILE NO.: REF
	BUILDING OR PROJECT: CAMPUS STANDARDS	CHECKED: AB	SCALE: N.T.S.	SHEET: 02.6-77
		APPROVED: PP&C	DATE: 04/01/04	OF



NOTES:

1. ABOVE GRADE PIPING LARGER THAN 2-1/2" SHALL BE SCHEDULE 40 BLACK STEEL WITH WELDED FITTINGS.
2. ABOVE GRADE PIPING 2-1/2" & SMALLER SHALL BE SCHEDULE 40 BLACK STEEL WITH THREADED OR WELDED FITTINGS.
3. PROVIDE FLANGES OR UNIONS AS REQUIRED TO ALLOW FOR REMOVAL OF METER AND FILTER WHILE BYPASS REMAINS IN OPERATION.
4. PROVIDE SPACE FOR FILTER CARTRIDGE REMOVAL WITHOUT DISASSEMBLY OF PIPING. BYPASS INSTALLED BY OTHERS. PROVIDE 1" T&E WITH REDUCER AS SHOWN.
5. PROVIDE VEHICLE PROTECTION WHEN LOCATED WITHIN 10 FEET OF VEHICLE TRAFFIC WAYS OR PARKING. VEHICLE PROTECTION SHALL CONSIST OF 6 CONCRETE FILLED PIPES SPACED EQUALLY AROUND THE METER, SET 36" DEEP IN CONCRETE AND 36" HIGH.
6. ALL EXPOSED STEEL PIPING, SUPPORTS, AND VEHICLE PROTECTION SHALL BE PAINTED WITH 1 COAT OF FERROUS PRIMER AND 2 COATS OF GRAY SEMI-GLOSS ENAMEL.

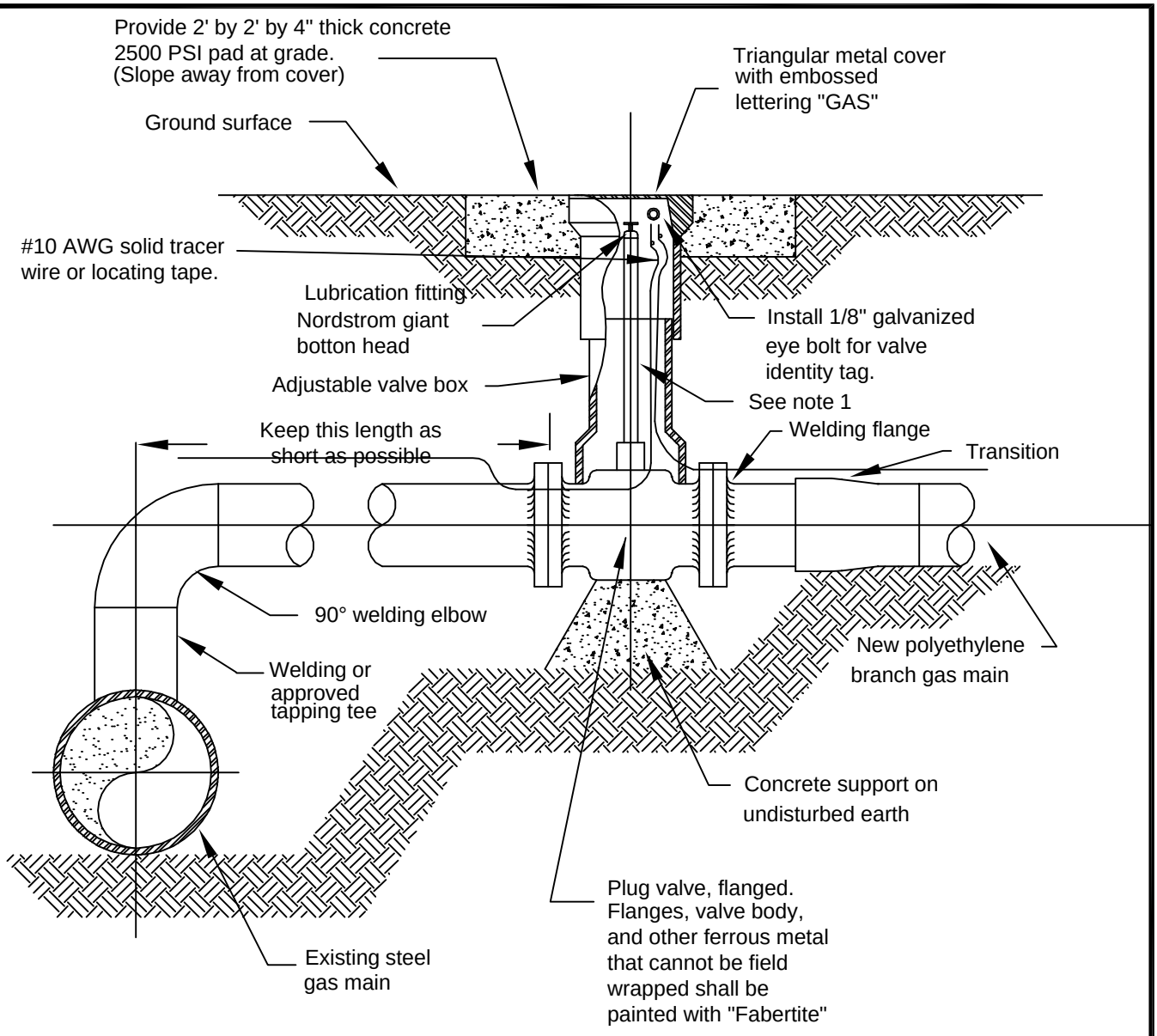
UNIVERSITY OF CALIFORNIA SANTA CRUZ Physical Planning and Construction	SHEET TITLE: MASTER GAS METER INSTALLATION	DRAWN: OAC	LOCATION:	FILE NO.: REF
		CHECKED: AB	SCALE: N.T.S.	SHEET: 02.6-80
	BUILDING OR PROJECT: CAMPUS STANDARDS	APPROVED: PP&C	DATE: 4/01/04	



NOTES:

1. PRECAST CONCRETE VALVE BOX SHALL BE RATED FOR H20 LOADING.

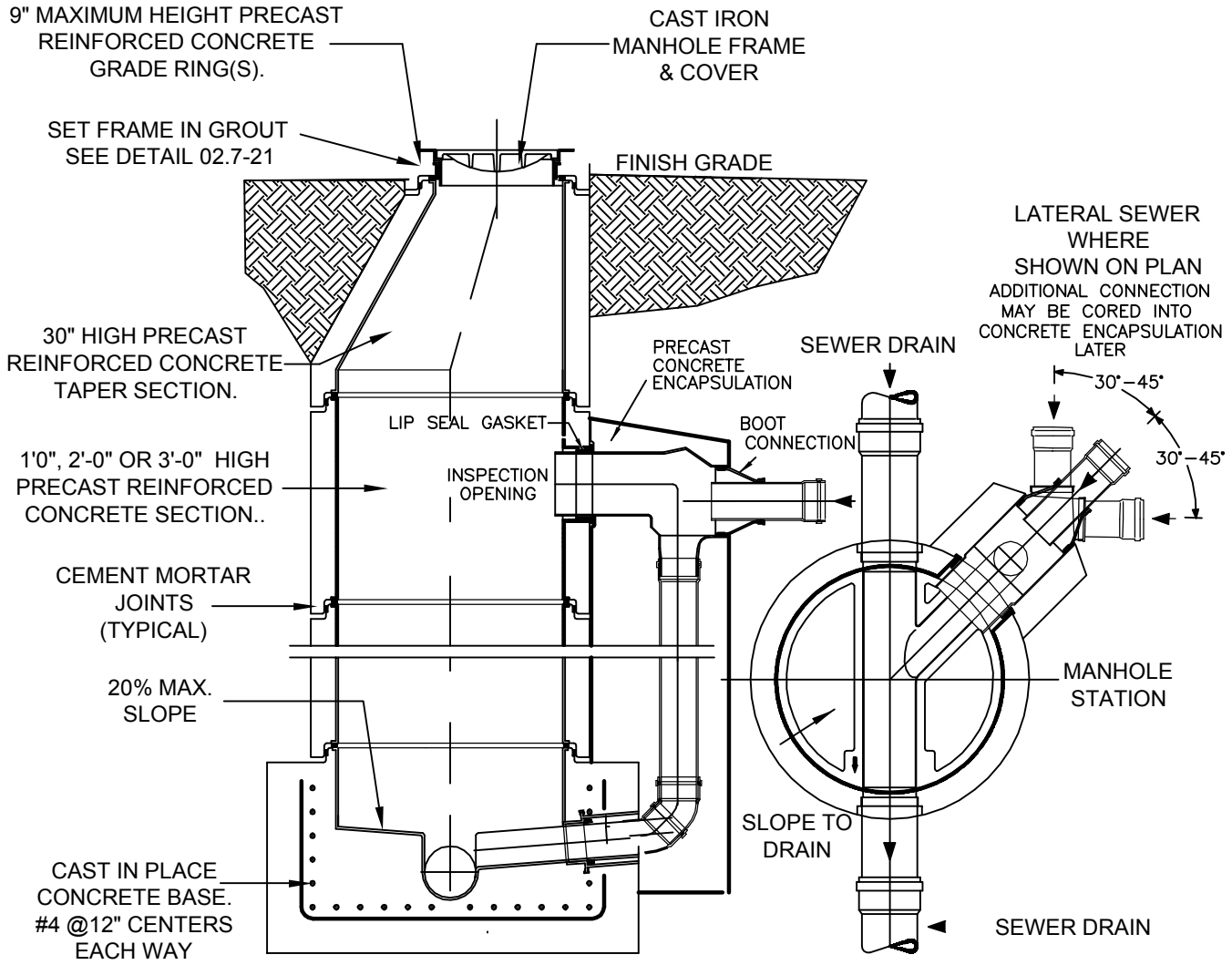
UNIVERSITY OF CALIFORNIA SANTA CRUZ Physical Planning and Construction	SHEET TITLE: BURIED GATE VALVE INSTALLATION	DRAWN: ENG	LOCATION:	FILE NO.: REF
	BUILDING OR PROJECT: CAMPUS STANDARDS	CHECKED: AB	SCALE: N.T.S.	SHEET: 02.6-83
		APPROVED: PP&C	DATE: 5/31/04	OF



NOTES

1. INSTALL HIGH HEAD EXTENSION FOR LUBRICATION ASSEMBLY AND VALVE STEM WITH 2" SQUARE OPERATING NUT WITHIN 6" OF BOX CORNER.
2. THIS DETAIL IS FOR CONNECTION OF NEW POLYETHYLENE BRANCH MAIN TO EXISTING STEEL PIPE MAIN. VALVE INSTALLATION FOR POLYETHYLENE GAS MAIN IS SIMILAR.
3. SEE DETAIL 02.2-00 FOR PIPE BEDDING AND BACKFILL.
4. ALL NEW TAPS TO GAS LINES SHALL BE BY "LINE-STOPS WITH BYPASS." NO INTERRUPTION IN SERVICE ALLOWED.
5. NOTIFY UNIVERSITY REPRESENTATIVE IN ADVANCE OF OPERATIONS SO CAMPUS CATHODIC PROTECTION SYSTEM CAN BE SECURED WHILE WELDING IN PROGRESS.
6. CONTINUITY OF CATHODICALLY PROTECTED PIPE SHALL BE MAINTAINED BY ADDING BONDING NUMBERS ACROSS VALVES.

UNIVERSITY OF CALIFORNIA SANTA CRUZ Physical Planning and Construction	SHEET TITLE: BRANCH GAS MAIN AND VALVE INSTALLATION	DRAWN: OAC	LOCATION:	FILE NO.: REF
		CHECKED: SP	SCALE: N.T.S.	SHEET: 02.6-86
	BUILDING OR PROJECT: CAMPUS STANDARDS	APPROVED: PP&C	DATE: 12/17/97	OF

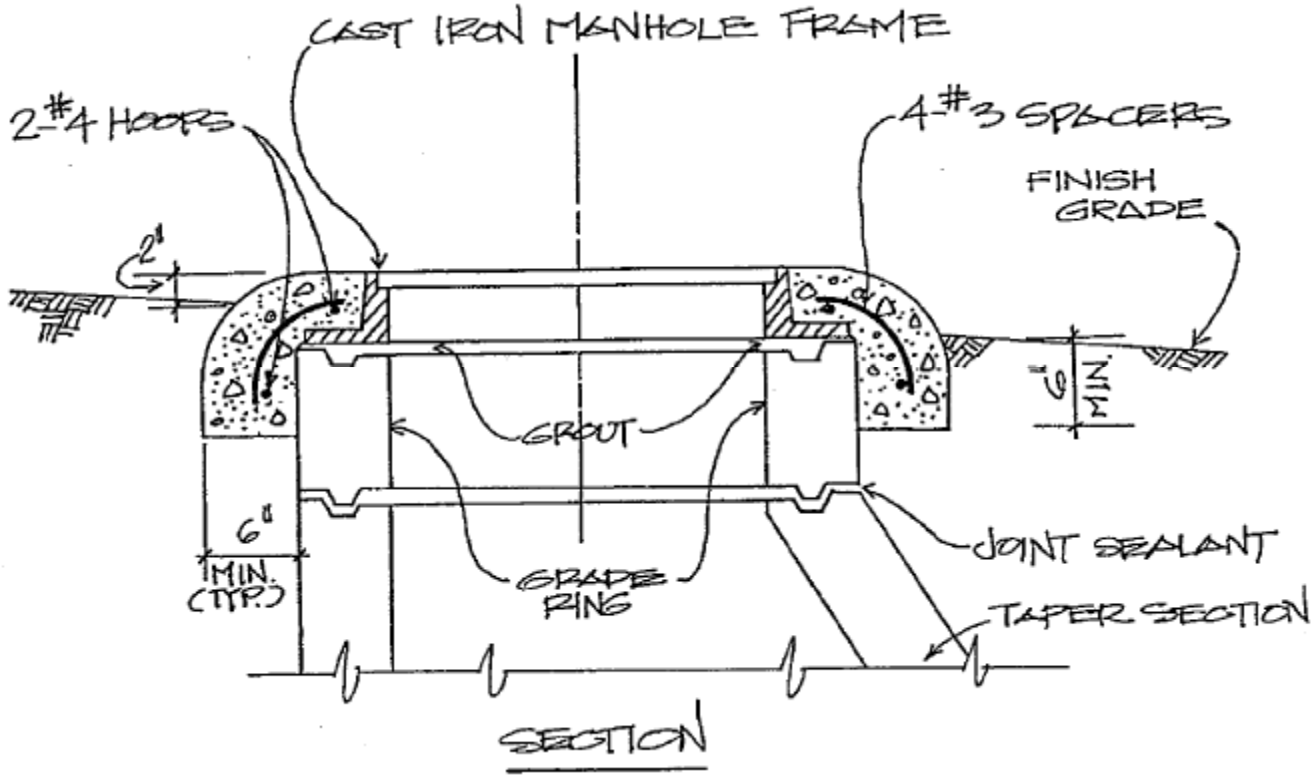


SECTION **PLAN**

NOTES:

1. FOR MANHOLES GREATER THAN 6' ADD CAST IN PLACE LADDER.
2. ALL EXPOSED STEEL PIPING, SUPPORTS AND VEHICLE PROTECTION SHALL BE PAINTED WITH 1 COAT OF FERROUS PRIMER AND 2 COATS OF GRAY SEMI-GLOSS ENAMEL.
3. DROP MANHOLE INLET AND LATERAL SEWER IF REQUIRED.
4. SEE DETAIL 02.7-21 FOR CONCRETE COLLAR FOR MANHOLE FRAME.
5. SEE DETAIL 02.7-22 FOR CAST IRON MANHOLE FRAME AND COVER.

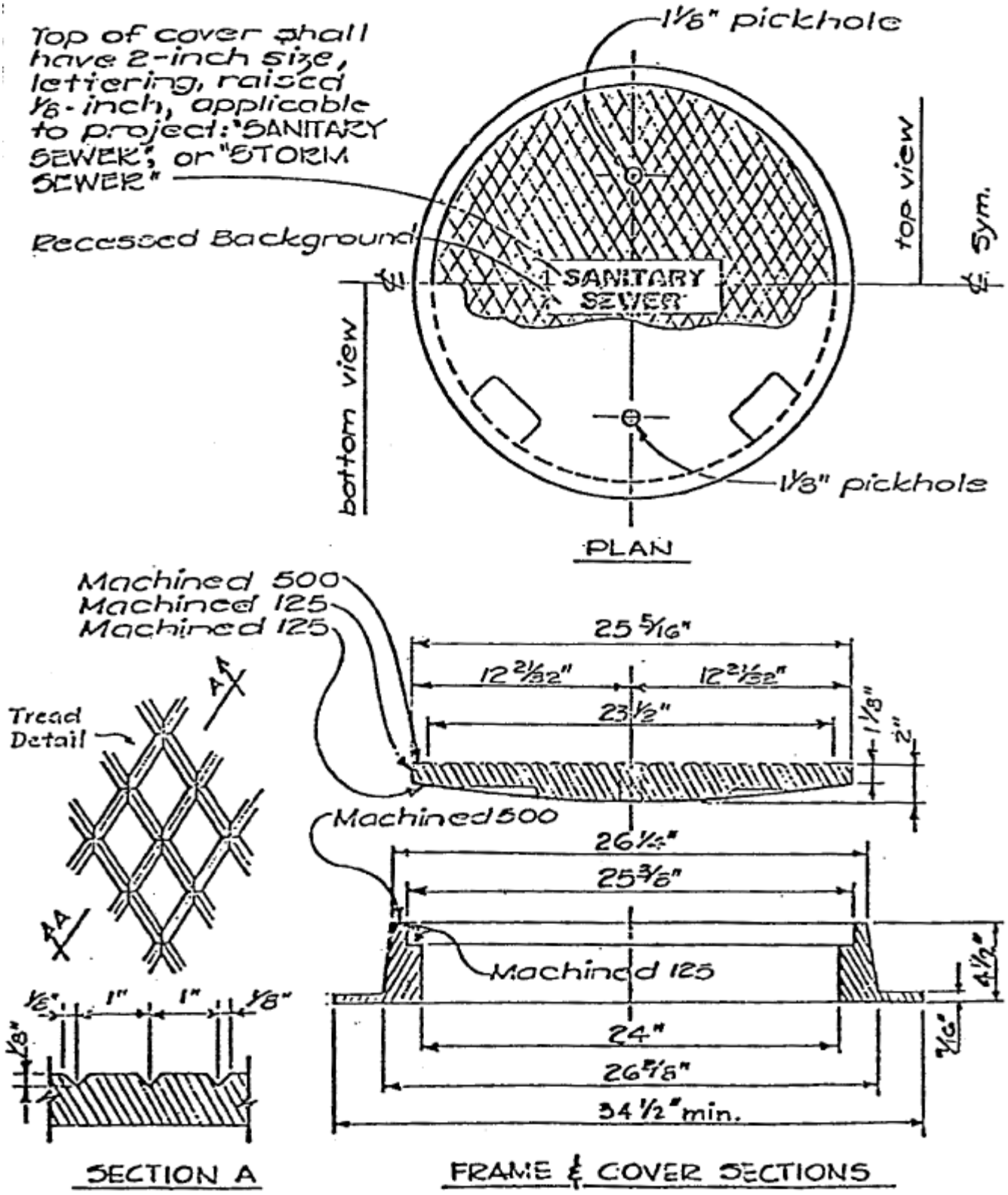
UNIVERSITY OF CALIFORNIA SANTA CRUZ Physical Planning and Construction	SHEET TITLE: STORM AND SANITARY SEWER MANHOLE	DRAWN: JO/MGH	LOCATION:	FILE NO.: REF
		CHECKED: AB	SCALE: N.T.S.	SHEET: 02.7-20
	BUILDING OR PROJECT: CAMPUS STANDARDS	APPROVED: PP&C	DATE: 4/01/04	



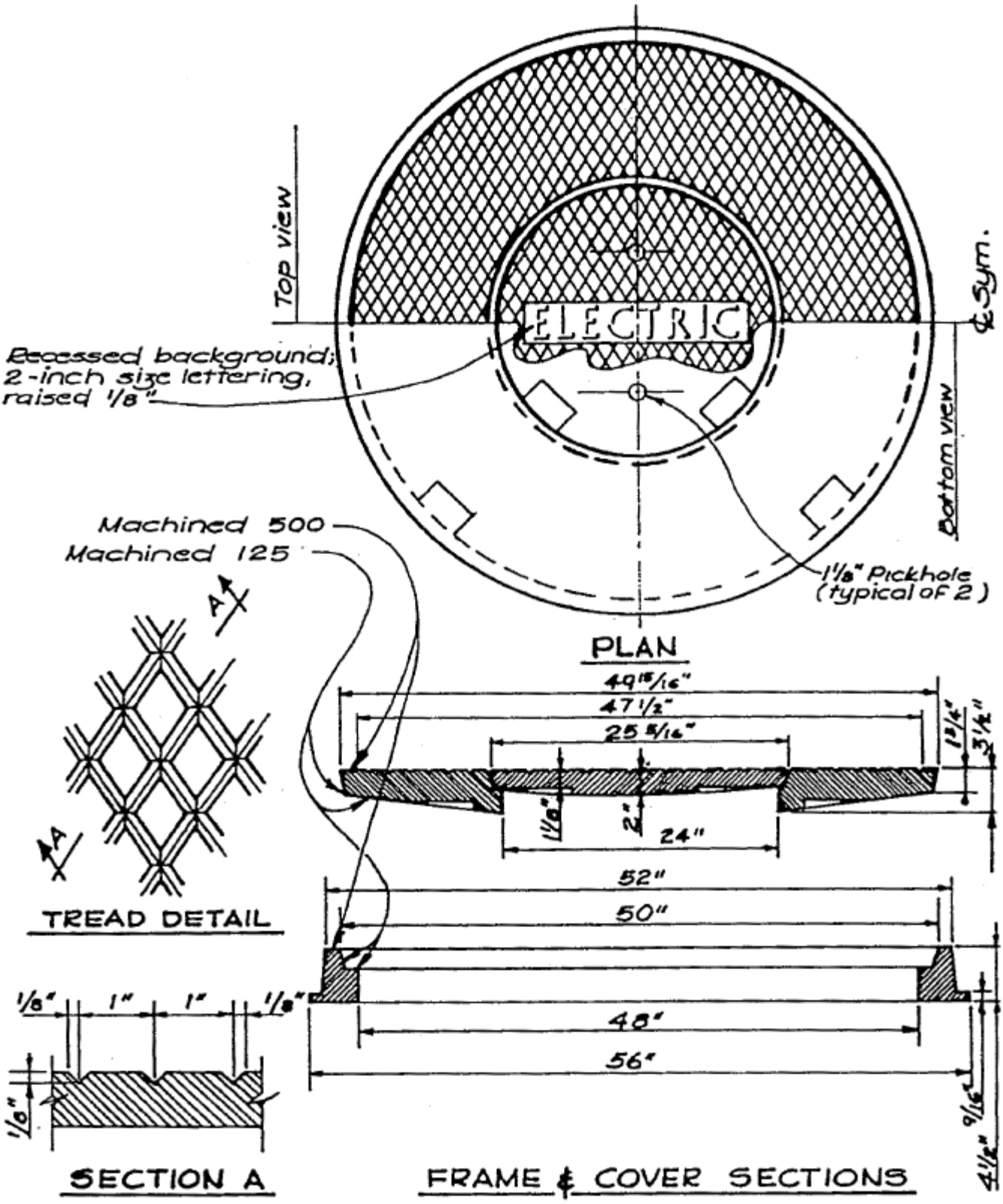
NOTES:

1. CONSTRUCT CONCENTRIC CONCRETE COLLAR ON MANHOLE WHERE MANHOLES ARE NOT LOCATED IN PAVEMENT, EXCEPT AS SPECIFICALLY NOTED.
2. THIS DETAIL IS APPLICABLE TO ALL MANHOLES AS REQUIRED IN NOTE 1, INCLUDING SANITARY SEWER, STORM DRAIN, ELECTRICAL, COMMUNICATION, AND HIGH TEMPERATURE WATER. THIS DETAIL IS ALSO APPLICABLE TO STORM DRAIN MANHOLES WITH GRATED COVERS ACTING AS DRAIN INLETS OR JUNCTION BOXES WITH THE EXCEPTION THAT FOR DRAIN INLETS THE FINISH GRADE SHALL BE 1/2" ABOVE THE RIM GRATE.

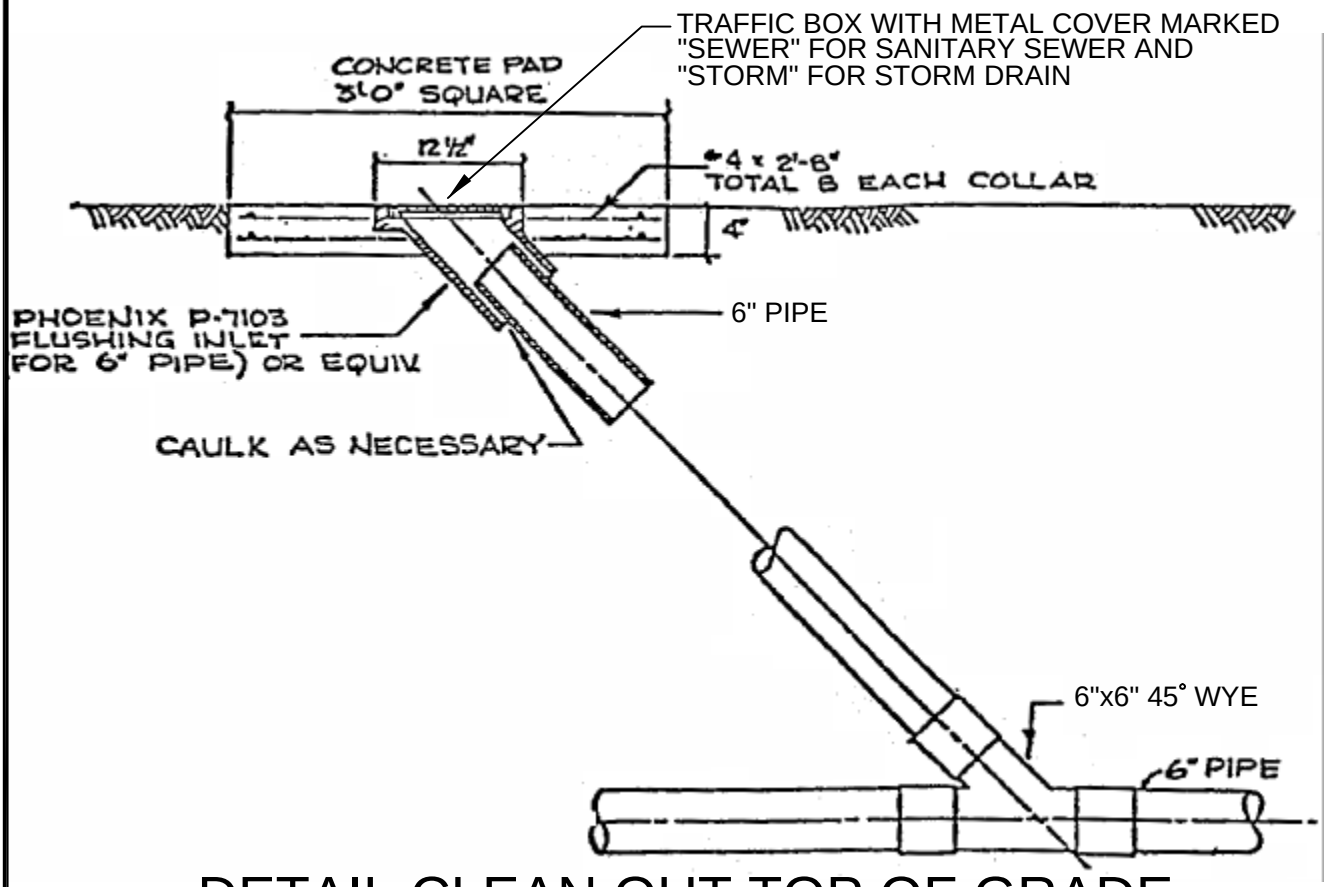
UNIVERSITY OF CALIFORNIA SANTA CRUZ Physical Planning and Construction	SHEET TITLE: CONCRETE COLLAR FOR MANHOLE FRAME	DRAWN: MP	LOCATION:	FILE NO.: REF
		CHECKED: MDH	SCALE: N.T.S.	SHEET: 02.7-21
	BUILDING OR PROJECT: CAMPUS STANDARDS	APPROVED: PP&C	DATE: 03/23/93	OF



UNIVERSITY OF CALIFORNIA SANTA CRUZ Physical Planning and Construction	SHEET TITLE: CAST IRON MANHOLE FRAME AND COVER	DRAWN: ENG	LOCATION:	FILE NO.: REF
	BUILDING OR PROJECT: CAMPUS STANDARDS	CHECKED: MH	SCALE: N.T.S.	SHEET: 02.7-22
		APPROVED: PP&C	DATE: 5/31/04	OF



UNIVERSITY OF CALIFORNIA SANTA CRUZ Physical Planning and Construction	SHEET TITLE: ELECTRICAL MANHOLE COVER BUILDING OR PROJECT: CAMPUS STANDARDS	DRAWN: ENG CHECKED: AB APPROVED: PP&C	LOCATION: SCALE: N.T.S. DATE: 5/31/04	FILE NO.: REF SHEET: 02.7-23 OF

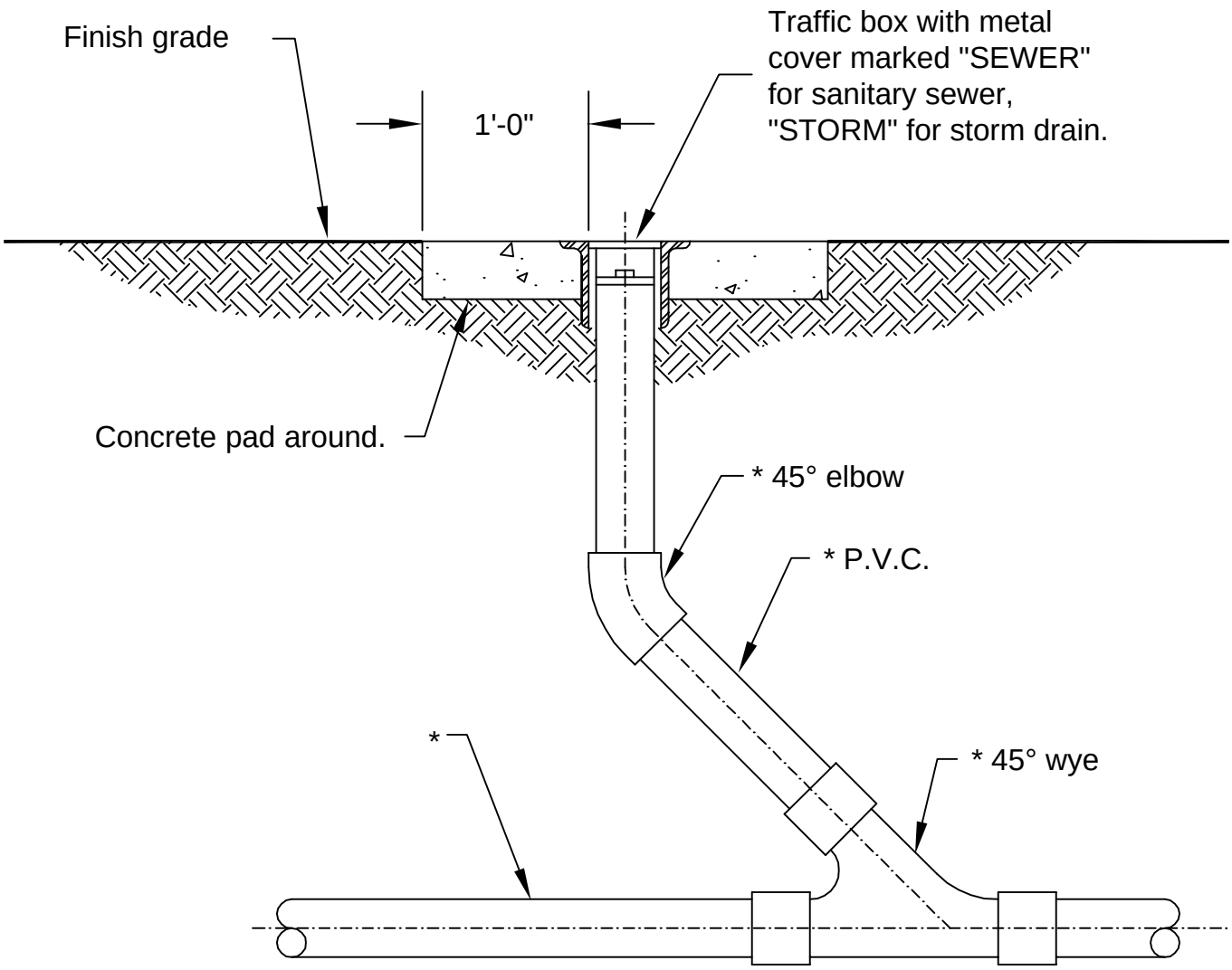


DETAIL CLEAN OUT TOP OF GRADE

NOTES:

1. FULL SIZE CLEAN OUTS REQUIRED
2. PROVIDE H20 TRAFFIC RATING IN ALL ROADWAYS AND PATHWAYS
3. THE MINIMUM PIPE SIZE SHALL BE DETERMINED FROM THE TOTAL OF ALL FIXTURE UNITS AND DRAINAGE PIPES CONNECTED IN ACCORDANCE WITH THEIR LENGTH BUT IN NO CASE SMALLER THAN 6".

UNIVERSITY OF CALIFORNIA SANTA CRUZ Physical Planning and Construction	SHEET TITLE: CLEAN OUT BUILDING OR PROJECT: CAMPUS STANDARDS	DRAWN: ENG CHECKED: AB APPROVED: PP&C	LOCATION: SCALE: N.T.S. DATE: N.T.S.	FILE NO.: REF SHEET: 02.7-25 OF



NOTES:

1. THIS DETAIL SHALL BE USED ONLY WHEN SITE CONSTRAINTS PRECLUDE THE USE OF DETAIL 02.7-25
2. FULL SIZE CLEAN OUTS REQUIRED.
3. THE MINIMUM PIPE SIZE TO BE DETERMINED FROM THE TOTAL OF ALL FIXTURE UNITS AND DRAINAGE PIPES CONNECTED IN ACCORDANCE WITH THEIR LENGTH.
4. PROVIDE H20 TRAFFIC RATING IN ALL ROADWAYS AND PATHWAYS.

UNIVERSITY OF CALIFORNIA SANTA CRUZ Physical Planning and Construction	SHEET TITLE: CLEAN OUT	DRAWN: OAC	LOCATION:	FILE NO.: REF
	BUILDING OR PROJECT: CAMPUS STANDARDS	CHECKED: HH	SCALE: N.T.S.	SHEET: 02.7-26
		APPROVED: PP&C	DATE: 2/10/1998	OF

UNIVERSITY OF CALIFORNIA
SANTA CRUZ
Physical Planning and Construction

SHEET TITLE
PRECAST OIL SEPARATOR & SEDIMENT TRAP - SECTION VIEW

BUILDING OR PROJECT
CAMPUS STANDARDS

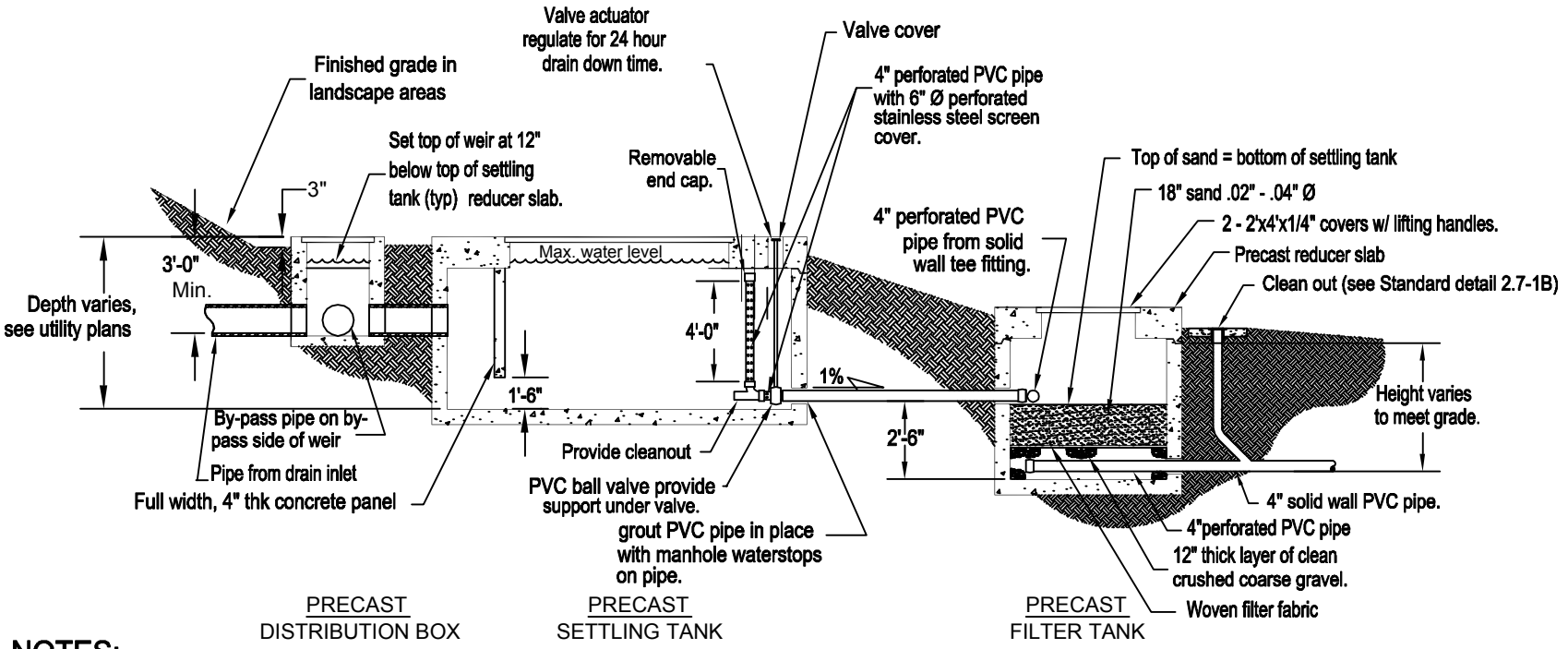
DRAWN OAC | CHECKED MDH | APPROVED PP&C

LOCATION

SCALE N.T.S. | DATE 10/13/97

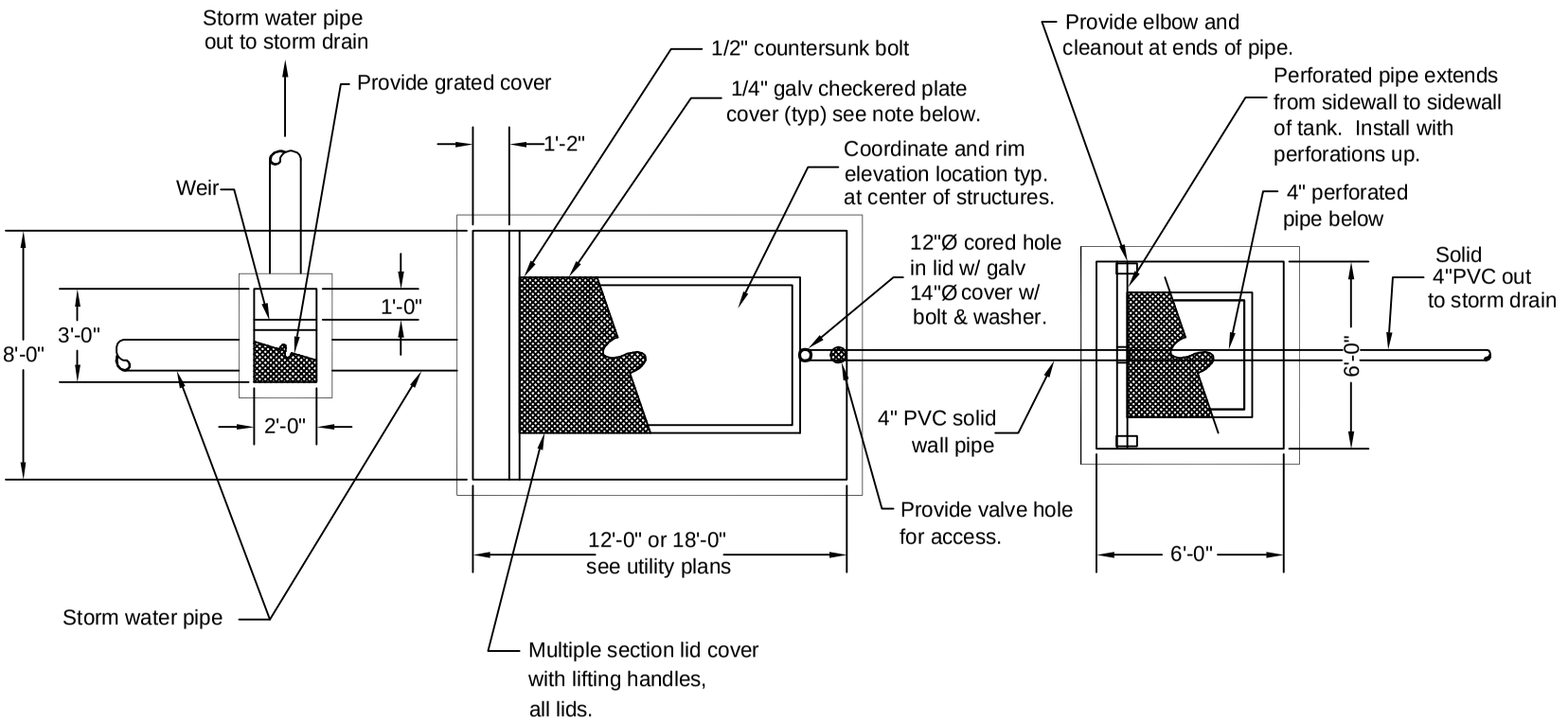
FILE NO. REF

SHEET 02.7-30 OF



NOTES:

1. SEE DETAIL 02.7-31 FOR PLAN VIEW.
2. ALL STRUCTURES, GRATES AND LIDS SHALL BE DESIGNED TO WITHSTAND H20 HIGHWAY LOADING. PROVIDE LIFTING HANDLES FOR ALL LIDS. THE PRECAST UNITS SHALL BE CONSTRUCTED TO CONFORM TO THE DESIGN REQUIREMENTS FOR EACH SPECIFIC LOCATION, AND SHALL BE PROVIDED WITH PIPE OPENINGS AS PER PLAN. SKEWED PIPE OPENINGS MAY BE CHIPPED BY MANUFACTURER IN GREEN CONCRETE.
3. STRUCTURES MAY BE CONSTRUCTED FROM TWO OR MORE UNITS AND SHALL BE PROVIDED WITH INTERLOCKING JOINTS, AND SEALING GASKETS AT JOINTS. LIFTING HOLES SHALL BE PROVIDED TO FACILITATE JOB HANDLING.
4. WHEN TANKS ARE IN PAVED AREAS GROUT COVER FRAME TO REQUIRED GRADE TO MEET TOP OF AC PAVING.
5. SURFACE OF REDUCER SLABS SHALL HAVE A MEDIUM BROOM FINISH.
6. SEE PLANS FOR SPECIFIC CONFIGURATION OF SYSTEM UNITS.
7. MINIMUM SLOPES FOR SYSTEM PIPES (OUTSIDE STRUCTURE) UNLESS NOTED OTHERWISE IN PLANS:
   12" RCP: S=0.005
   4" PVC: S-0.015
8. ALL STEEL SHALL BE HOT DIP GALVANIZED AFTER FABRICATION.
9. SIZE SETTLING TANK FOR EPA "FIRST FLUSH".



NOTES:

1. SEE DETAIL 02.7-30 FOR SECTION VIEW.
2. PROVIDE METER READING WINDOW IN THE CHECKED PLATE COVERS OVER THE SETTLING AND FILTER TANKS (ONE PER TANK).

UNIVERSITY OF CALIFORNIA
SANTA CRUZ
Physical Planning and Construction

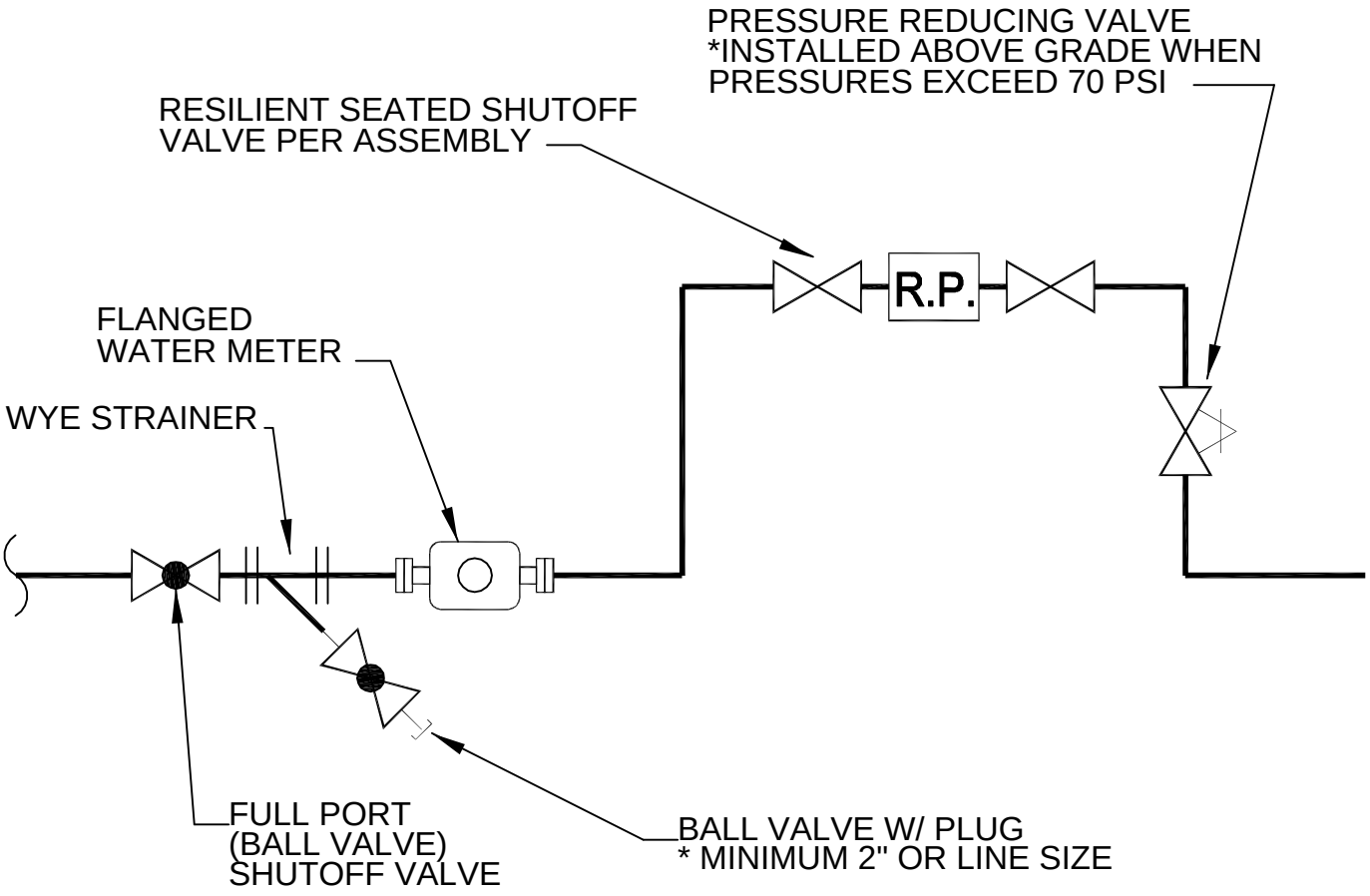
BUILDING OR PROJECT: CAMPUS STANDARDS

SHEET TITLE: PRECAST OIL SEPARATOR & SEDIMENT TRAP - PLAN VIEW

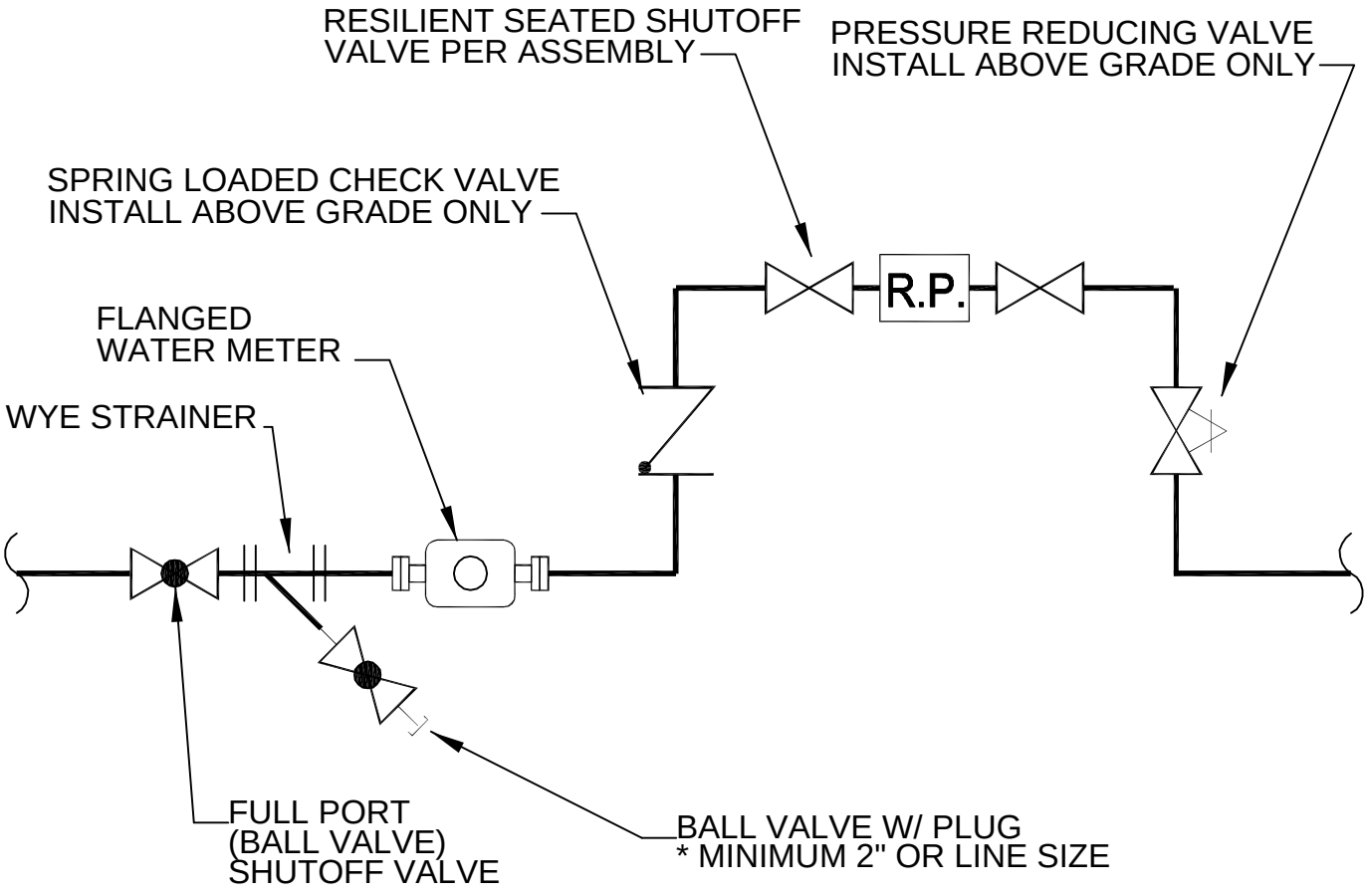
DRAWN	CHECKED	APPROVED
OAC	MDH	PP&C

LOCATION	SCALE	DATE
	N.T.S.	10/16/97

FILE NO.	SHEET	OF
REF	2.7-31	

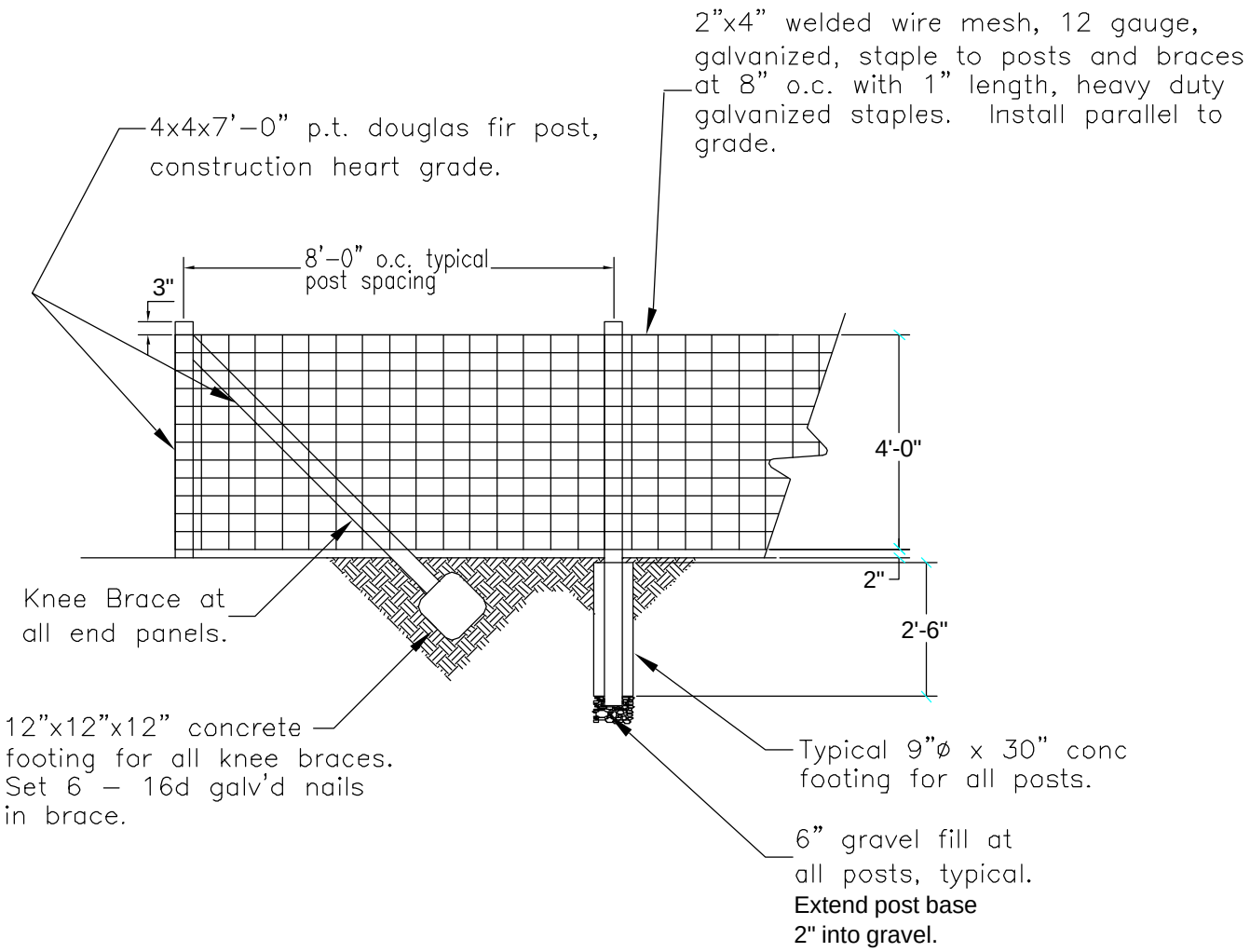


UNIVERSITY OF CALIFORNIA SANTA CRUZ Physical Planning and Construction	SHEET TITLE: IRRIGATION - MASTER WATER METER SERVICE BUILDING OR PROJECT: CAMPUS STANDARDS	DRAWN: ENG CHECKED: AB APPROVED: PP&C	LOCATION: SCALE: N.T.S. DATE: 5/31/04	FILE NO.: REF SHEET: 02.8-10 OF



MASTER WATER METER & BACKFLOW PREVENTER
IRRIGATION SERVICE ONLY

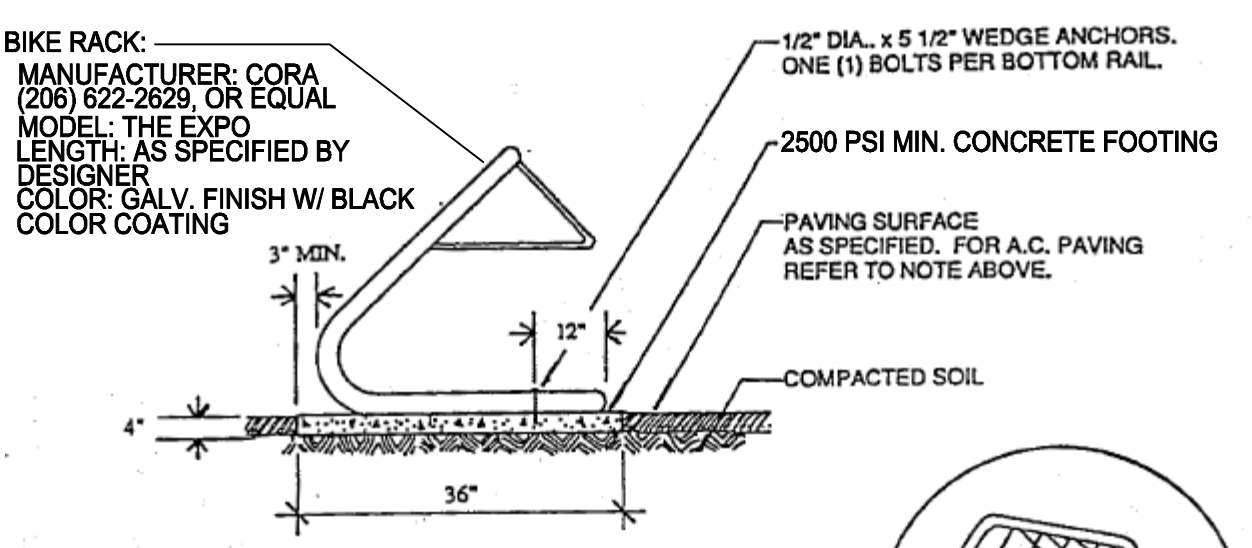
UNIVERSITY OF CALIFORNIA SANTA CRUZ Physical Planning and Construction	SHEET TITLE: IRRIGATION BACKFLOW PREVENTER	DRAWN: ENG	LOCATION:	FILE NO.: REF
	BUILDING OR PROJECT: CAMPUS STANDARDS	CHECKED: AB	SCALE: N.T.S.	SHEET: 02.8-11
		APPROVED: PP&C	DATE: 04/14/03	OF



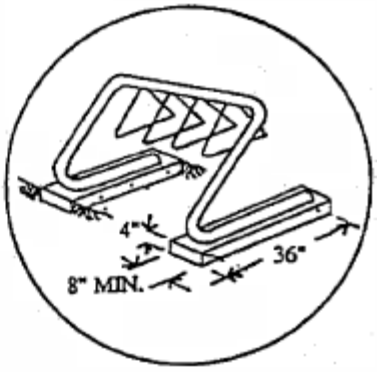
NOTES:

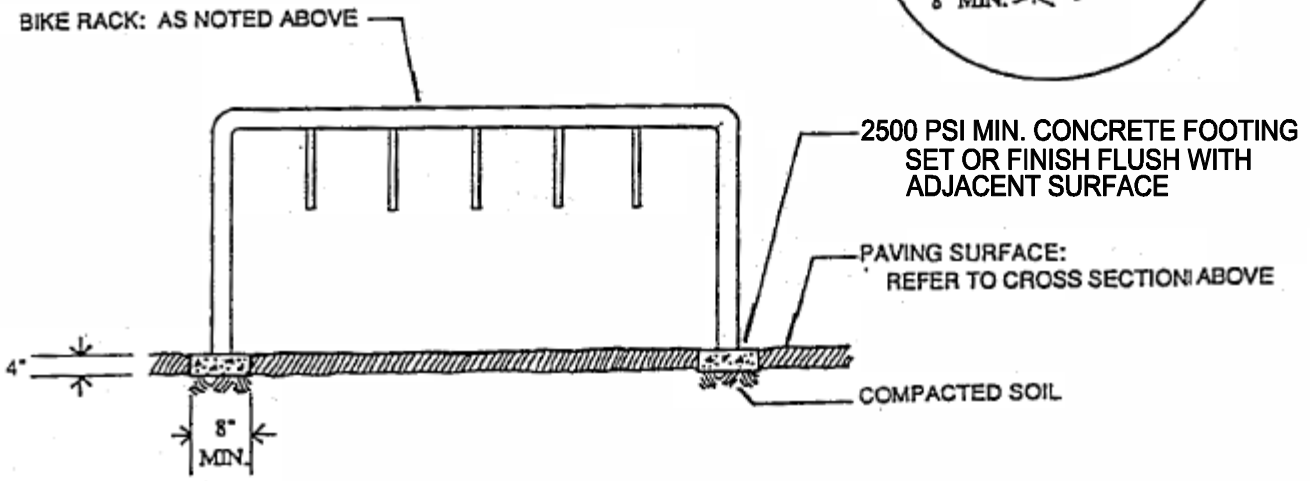
1. ALL WOOD SHALL BE CON HEART REDWOOD.

UNIVERSITY OF CALIFORNIA SANTA CRUZ Physical Planning and Construction	SHEET TITLE: WIRE MESH FENCE BUILDING OR PROJECT: CAMPUS STANDARDS	DRAWN: OAC CHECKED: HGH APPROVED: PP&C	LOCATION: SCALE: 1"=40.0' DATE: 02/05/02	FILE NO.: REF SHEET: 02.8-31 OF



CROSS SECTION



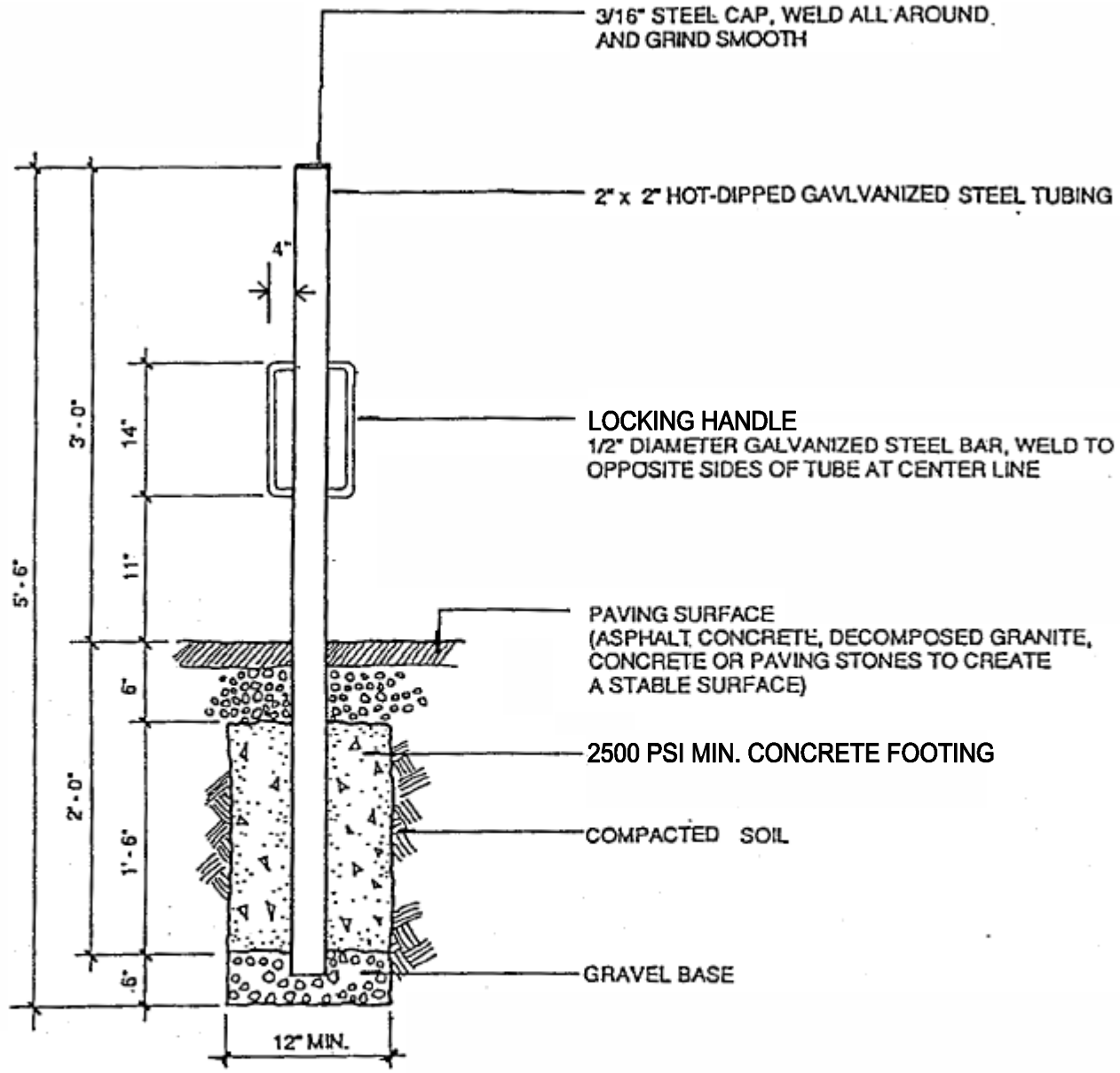


LONGITUDINAL SECTION

NOTES:

1. IF EXISTING SURFACE IS CONCRETE, RACK SHALL BE BOLTED DIRECTLY INTO SURFACE. FOR NEW OR EXISTING A.C. PAVING: CORE A 4" SQUARE HOLE BY 8" DEEP THROUGH THE A.C. (OR PRIOR TO POUR). WIDEN BOTTOM OF HOLE TO ALLOW SECURE ANCHOR POSITION. FILL WITH CONCRETE & ALLOW TO SET TO 2500 PSI. USE WEDGE ANCHORS AS INDICATED BELOW TO FASTEN RACK TO CONCRETE FOOTING.
2. PROVIDE USER ACCESS, BOTH SIDES OF BIKE RACK. BIKE RACK TO BE FUNCTIONAL WITHOUT DAMAGING ADJACENT PLANT MATERIAL.
3. REFER TO CURRENT APPROVED LAYOUT PLANS, AVAILABLE FROM TAPS OFFICE.

UNIVERSITY OF CALIFORNIA SANTA CRUZ Physical Planning and Construction	SHEET TITLE 'CORA' BIKE RACK INSTALLATION	DRAWN JANECKI	LOCATION	FILE NO. REF
	BUILDING OR PROJECT CAMPUS STANDARDS	CHECKED PAGELER	SCALE N.T.S.	SHEET 02.8-40
		APPROVED PP&C	DATE 11/12/03	OF



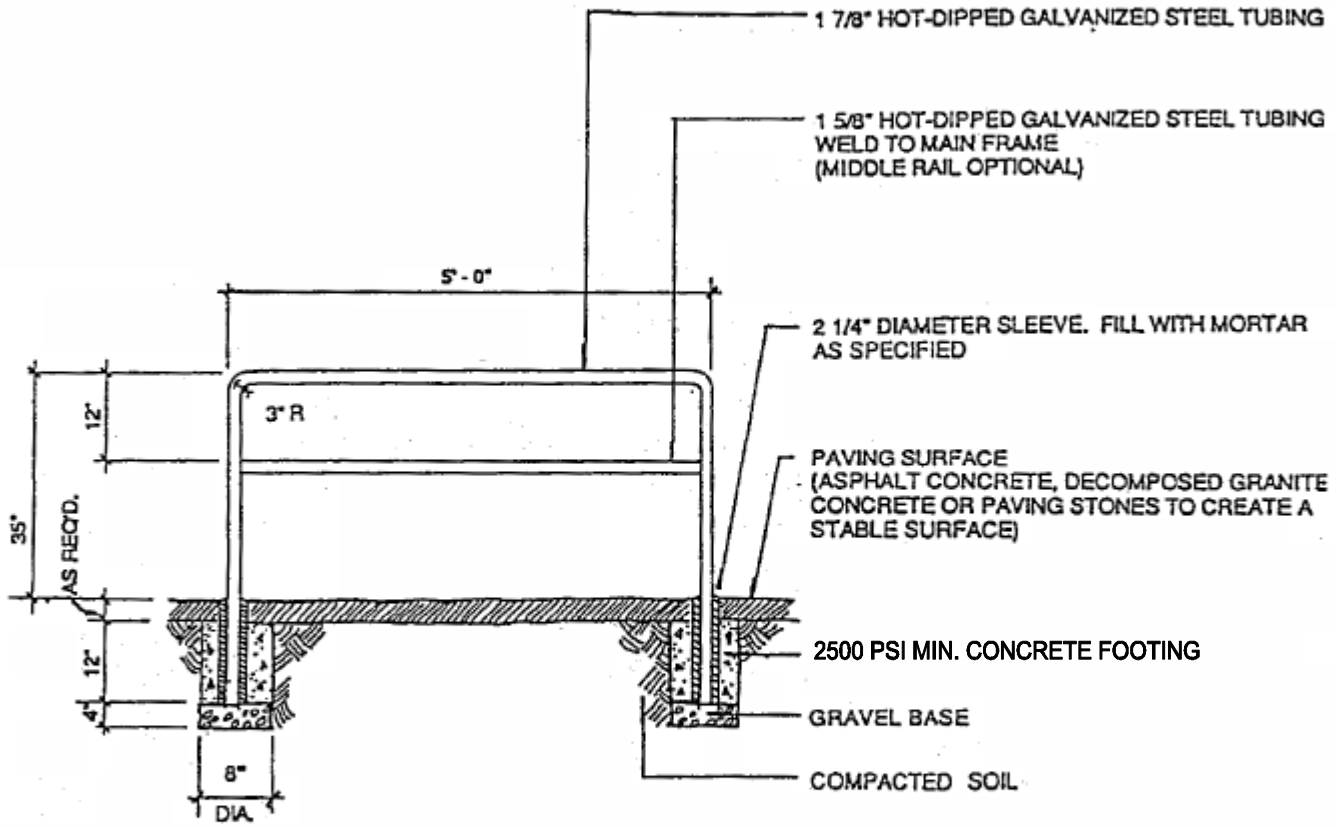
BICYCLE HITCHING POST - SECTION

NOT TO SCALE

NOTES:

1. COORDINATE DIRECTION OF LOCKING HANDLE WITH ORIENTATION OF PARKING AND SITE WITH UNIVERSITY'S REPRESENTATIVE.
2. REFER TO CURRENT APPROVED LAYOUT PLANS, AVAILABLE FROM TAPS OFFICE.

UNIVERSITY OF CALIFORNIA SANTA CRUZ Physical Planning and Construction	SHEET TITLE: BICYCLE HITCHING POST	DRAWN: JANECKI	LOCATION:	FILE NO.: REF
	BUILDING OR PROJECT: CAMPUS STANDARDS	CHECKED: PAGELER	SCALE: N.T.S.	SHEET: 02.8-41
		APPROVED: PP&C	DATE: 03/18/93	OF

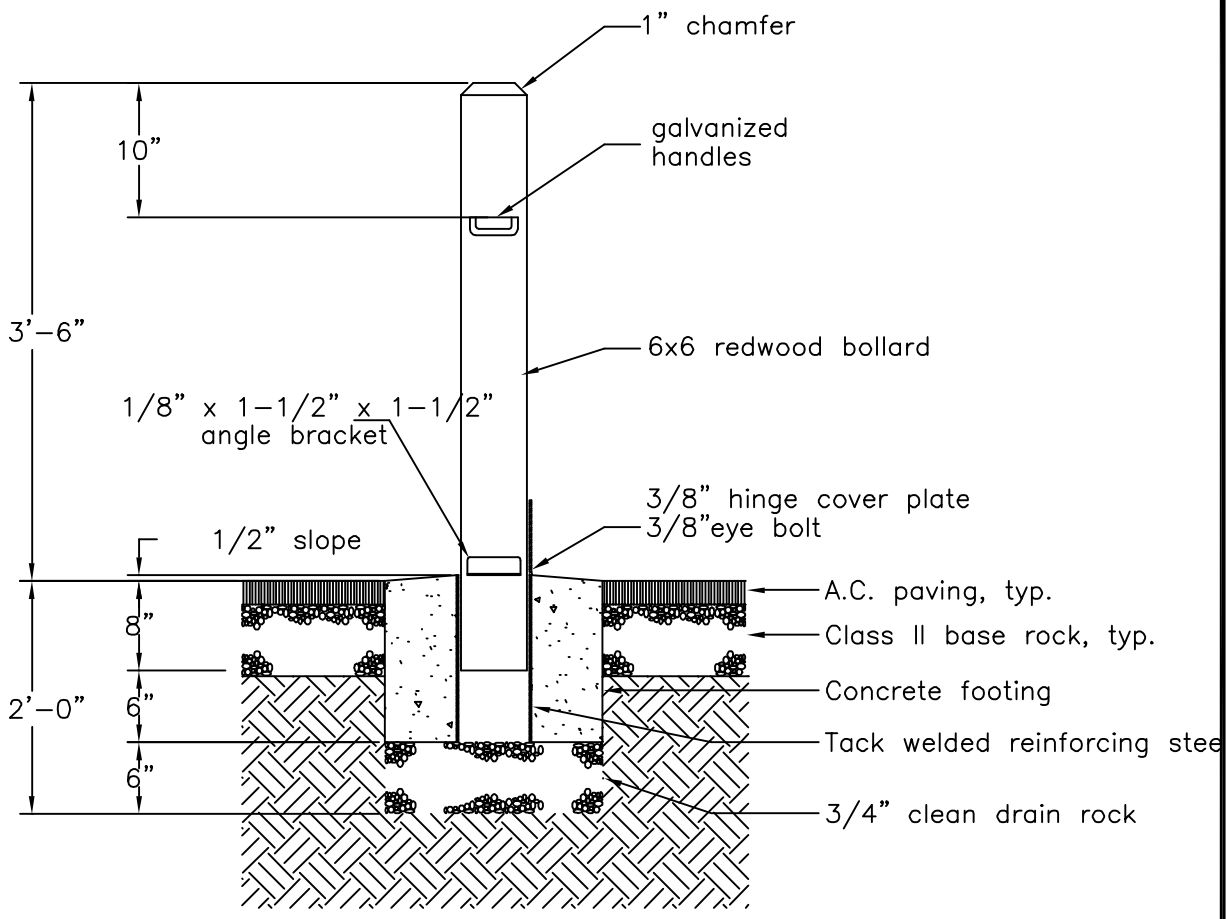


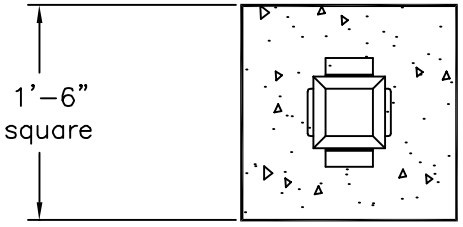
BICYCLE INVERTED U-RAIL - SECTION
NOT TO SCALE

NOTES:

1. REFER TO CURRENT APPROVED LAYOUT PLANS, AVAILABLE FROM TAPS OFFICE
2. ALTERNATE DETAIL:
   SURFACE MOUNT MAIN FRAME TO CEMENT SURFACES. DRILL HOLES INTO CEMENT AND INSERT EXPANSION BOLTS THROUGH A STEEL FLANGE PLATE. SYSTEM PROVIDES FLEXIBILITY OF RELOCATING LOCKS TO NEW LOCATIONS.

UNIVERSITY OF CALIFORNIA SANTA CRUZ Physical Planning and Construction	SHEET TITLE: U-RAIL BIKE RACK INSTALLATION	DRAWN: JANECKI	LOCATION:	FILE NO.: REF
	BUILDING OR PROJECT: CAMPUS STANDARDS	CHECKED: PAGELER	SCALE: N.T.S.	SHEET: 02.8-42
		APPROVED: PP&C	DATE: 03/18/93	OF

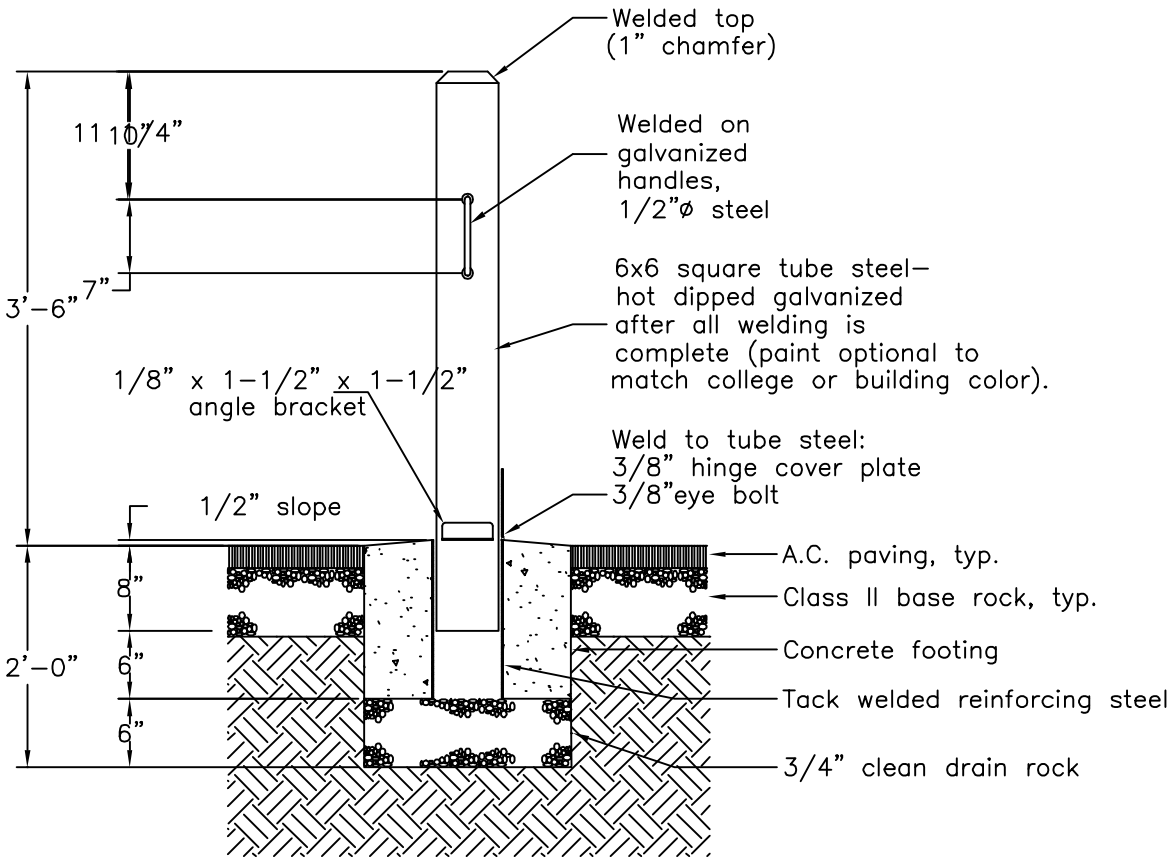




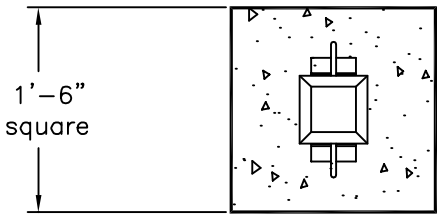
NOTES:

1. UNIVERSITY WILL PROVIDE BOLLARD AND SLEEVE UNIT. CONTRACTOR SHALL PROVIDE INSTALLATION PER DRAWINGS.

UNIVERSITY OF CALIFORNIA SANTA CRUZ Physical Planning and Construction	SHEET TITLE: WOOD BOLLARD INSTALLATION	DRAWN: OAC	LOCATION:	FILE NO.: REF
		CHECKED: AB	SCALE: N.T.S.	SHEET: 02.8-51
	BUILDING OR PROJECT: CAMPUS STANDARDS	APPROVED: PP&C	DATE: 02/05/2002	OF



SECTION

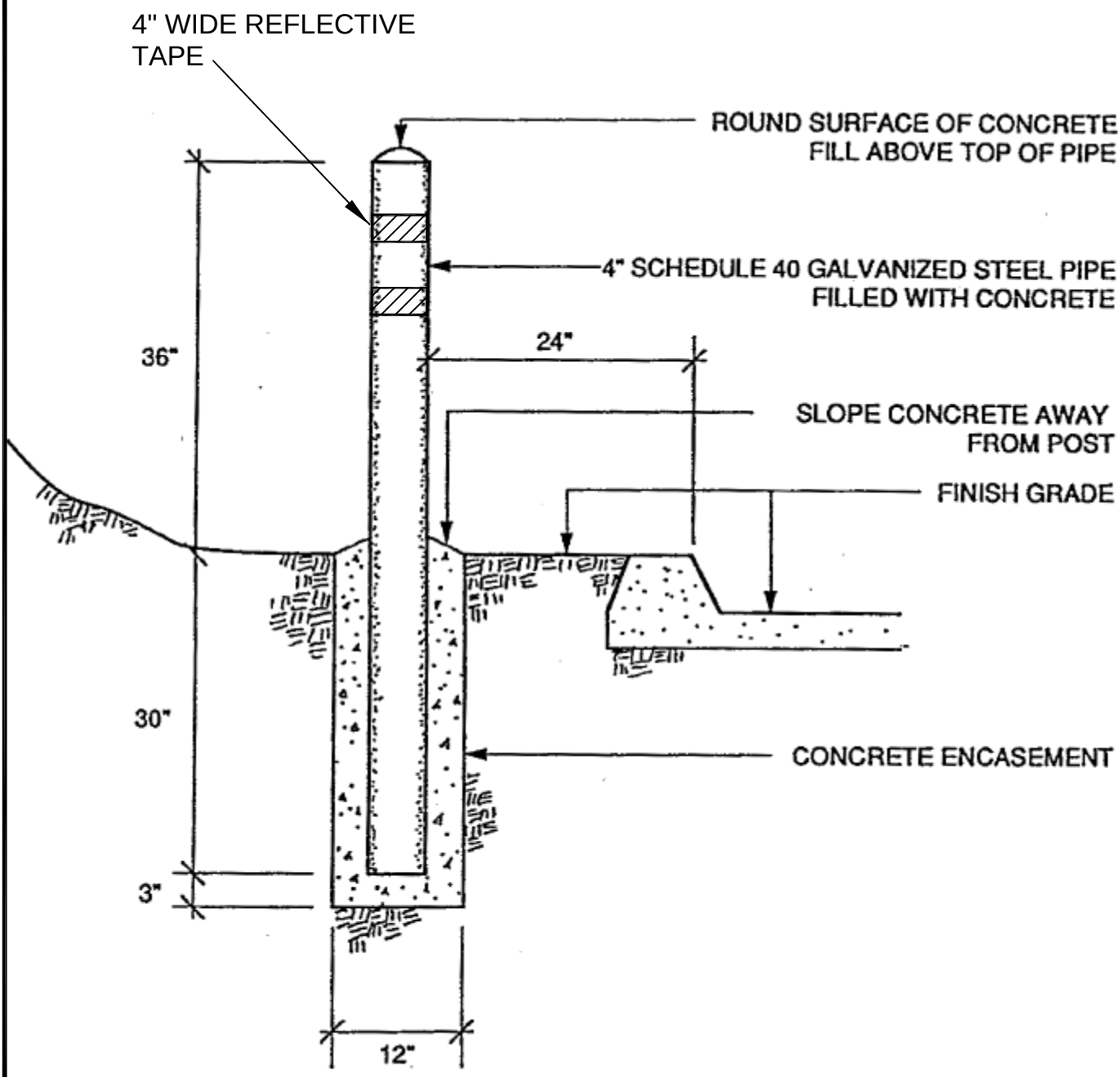


PLAN

NOTES:

1. HOT DIP GALVANIZE ALL OF POST INCLUDING HANDLES AND BRACKETS AFTER WELDED ON.
2. WHEN COMPLETE BOLLARD SHALL NOT EXCEED 50 LBS.
3. BOLLARD MAY EXCEED 50 LBS. WHEN:
   A. INSTALLED IN AREAS OF MINIMAL USE AND/OR SUBJECT TO DAMAGE;
   B. INSTALLED IN HEAVY TRAFFIC AREAS.

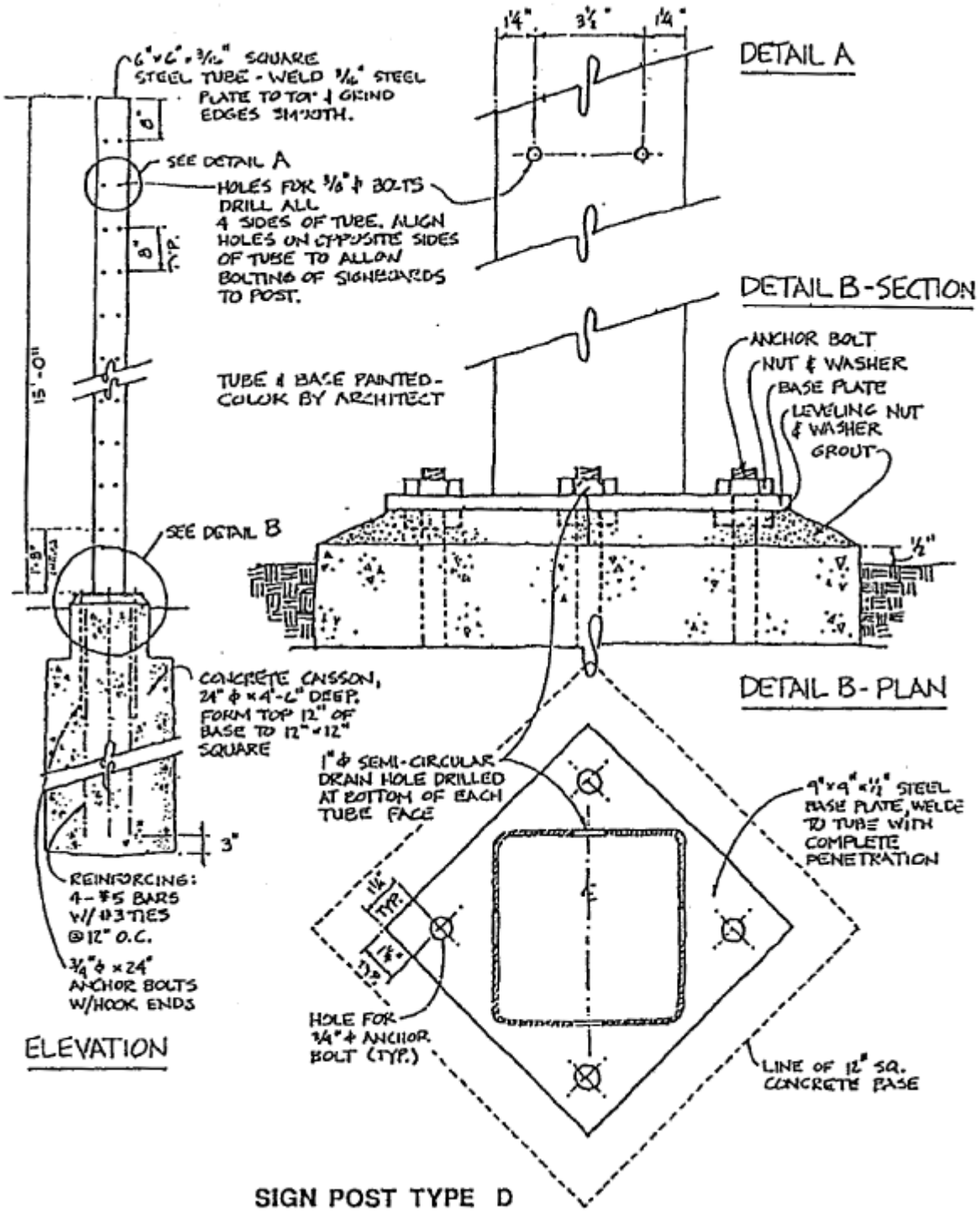
UNIVERSITY OF CALIFORNIA SANTA CRUZ Physical Planning and Construction	SHEET TITLE: STEEL BOLLARD INSTALLATION BUILDING OR PROJECT: CAMPUS STANDARDS	DRAWN: OAC CHECKED: HGH APPROVED: PP&C	LOCATION: SCALE: N.T.S. DATE: 12/17/1997	FILE NO.: REF SHEET: 02.8-52 OF



NOTES:

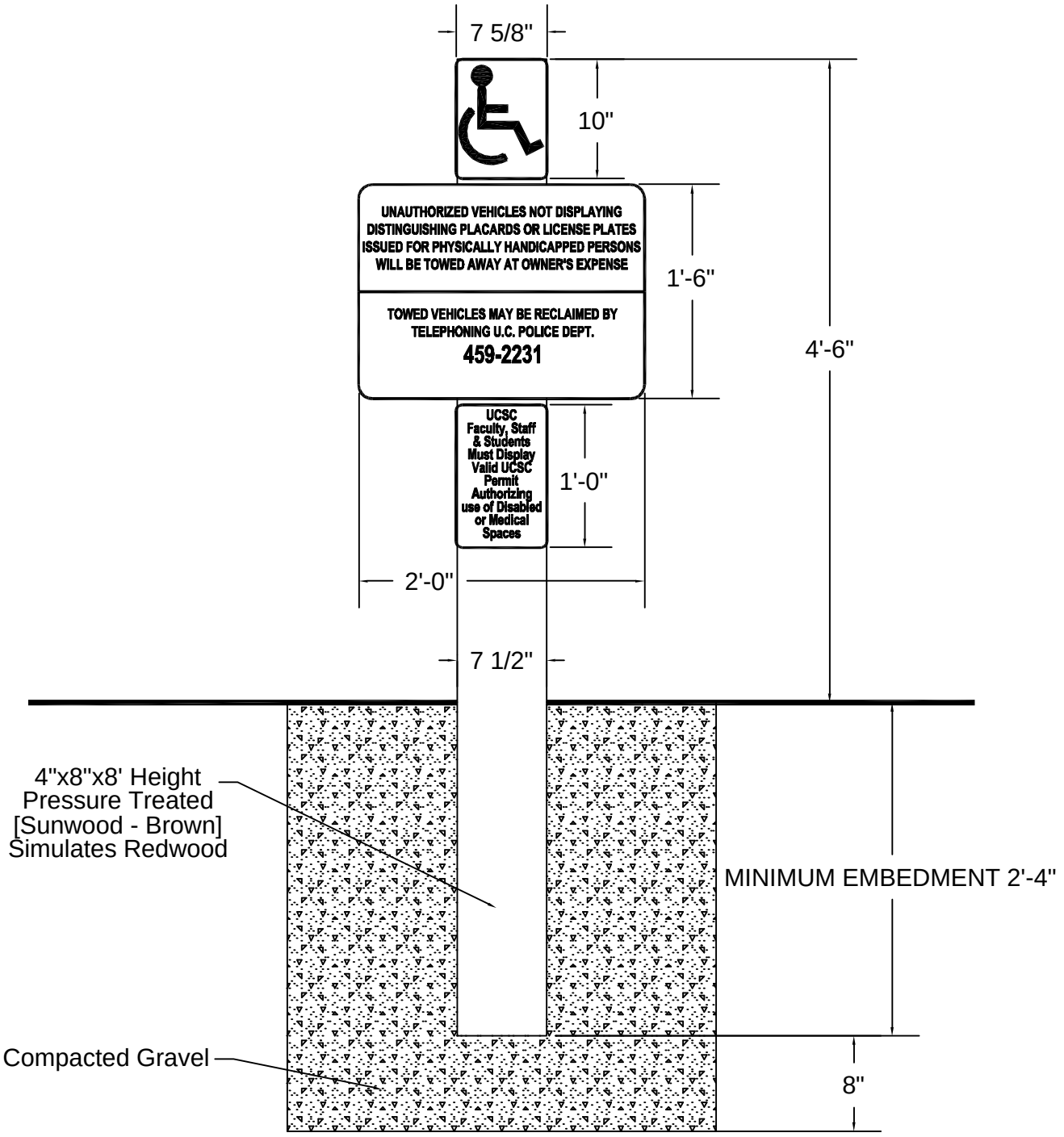
1. DESIGNER TO SPECIFY GUARDPOST COLOR (YELLOW) AND PAINT PREPARATION.

UNIVERSITY OF CALIFORNIA SANTA CRUZ Physical Planning and Construction	SHEET TITLE: GUARD POST	DRAWN: HH	LOCATION:	FILE NO.: REF
	BUILDING OR PROJECT: CAMPUS STANDARDS	CHECKED: AB	SCALE: N.T.S.	SHEET: 02.8-53
		APPROVED: PP&C	DATE: 04/9/93	OF

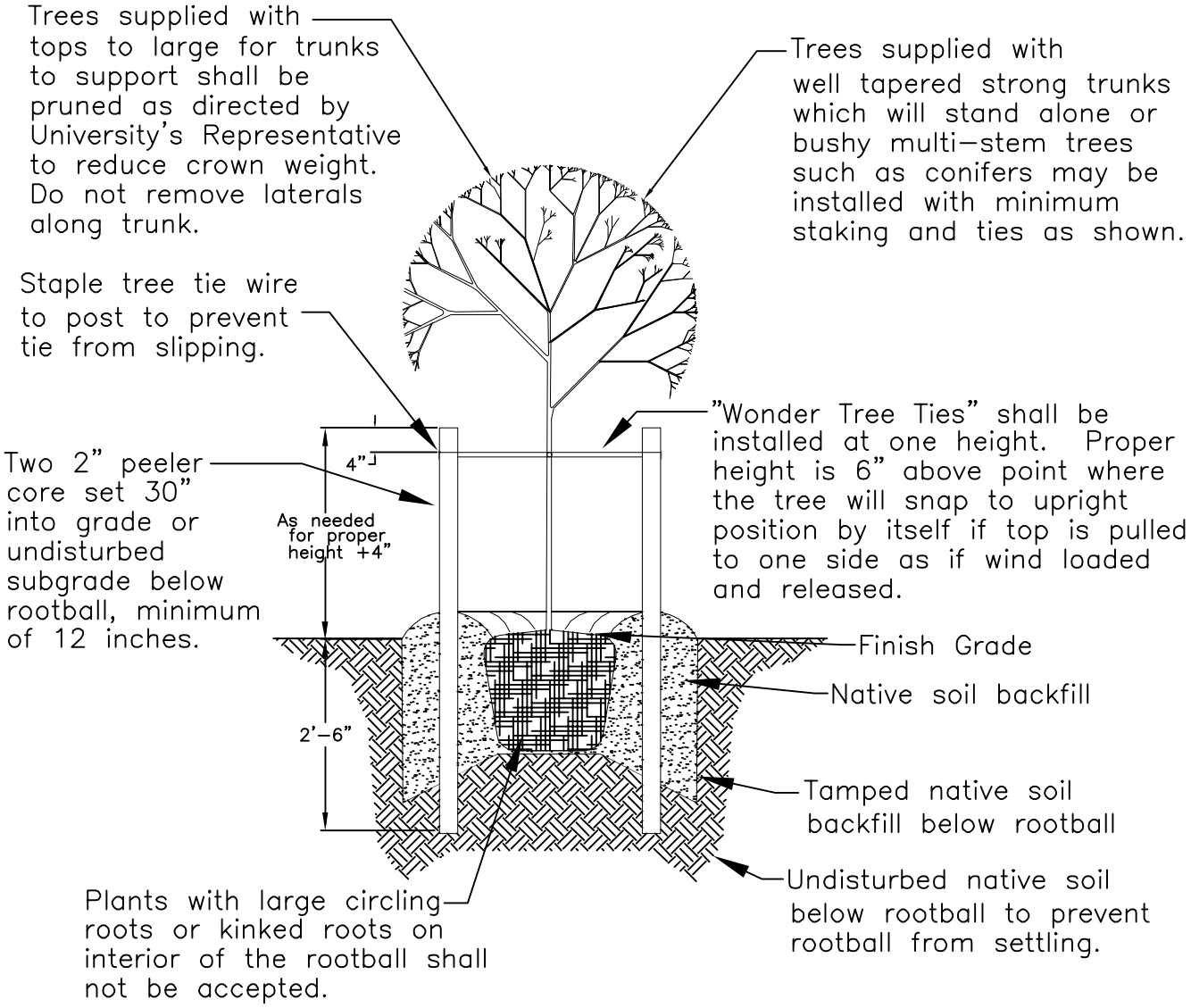


SIGN POST TYPE D

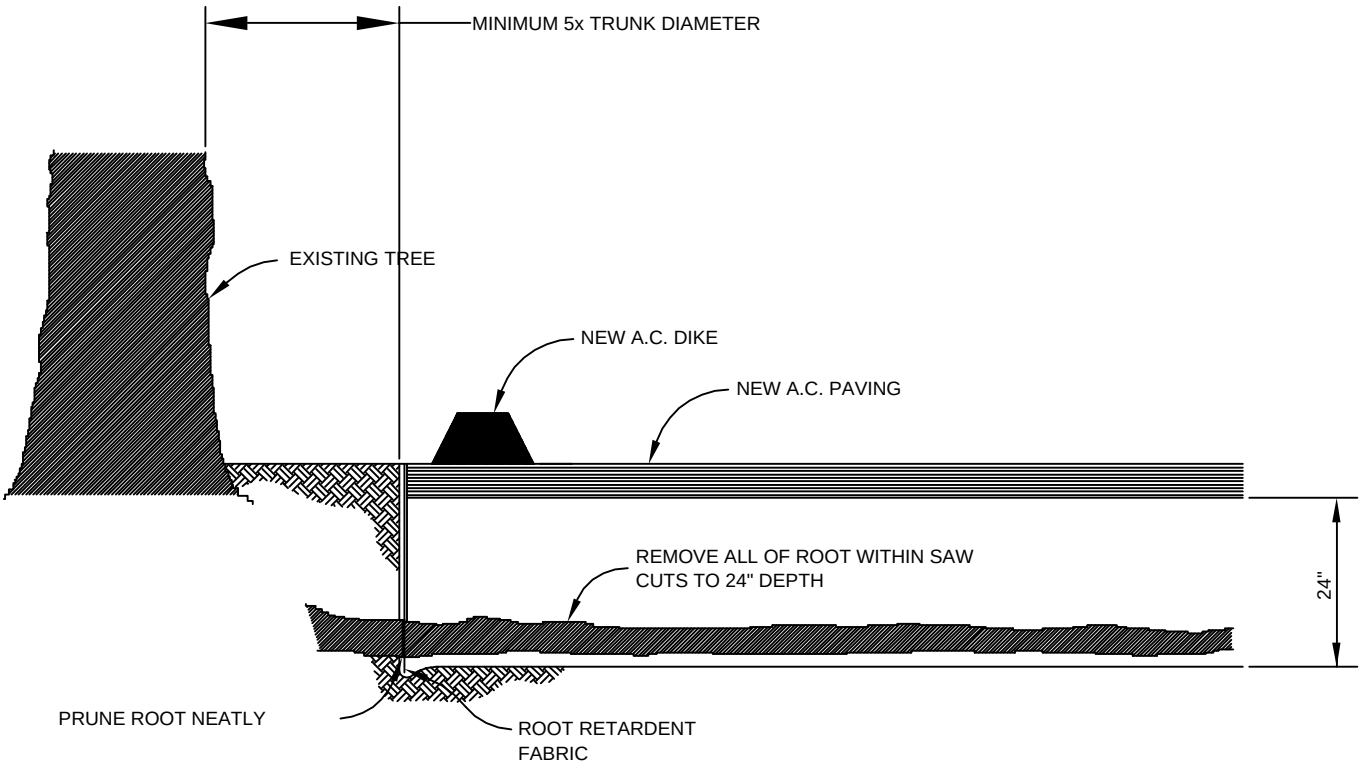
UNIVERSITY OF CALIFORNIA SANTA CRUZ Physical Planning and Construction	SHEET TITLE: SIGN POST AND BASE	DRAWN: AB	LOCATION:	FILE NO.: REF
		CHECKED: MDH	SCALE: N.T.S.	SHEET: 02.8-81
	BUILDING OR PROJECT: CAMPUS STANDARDS	APPROVED: PP&C	DATE: 04/3/92	OF



UNIVERSITY OF CALIFORNIA SANTA CRUZ Physical Planning and Construction	SHEET TITLE: ACCESS PARKING SIGN	DRAWN: JLO/DT	LOCATION:	FILE NO.: REF
	BUILDING OR PROJECT: CAMPUS STANDARDS	CHECKED: EB	SCALE: N.T.S.	SHEET: 02.8-85
		APPROVED: PP&C	DATE: 01/05/03	OF



UNIVERSITY OF CALIFORNIA SANTA CRUZ Physical Planning and Construction	SHEET TITLE: TREE STAKING	DRAWN: OAC	LOCATION:	FILE NO.: REF
	BUILDING OR PROJECT: CAMPUS STANDARDS	CHECKED: EDBERG	SCALE: N.T.S.	SHEET: 02.9-01
		APPROVED: PP&C	DATE: 02/25/1999	OF



NOTES:

1. MINIMUM DISTANCE FROM TRUNK TO EDGE OF PAVEMENT CUT CAN BE REDUCED TO 3x TRUNK DIAMETER WITH UNIVERSITY REPRESENTATIVE AND UNIVERSITY ARBORIST APPROVAL.
2. SEE DIVISION 1 FOR TREE PROTECTION REQUIREMENTS.

UNIVERSITY OF CALIFORNIA SANTA CRUZ Physical Planning and Construction	SHEET TITLE: ROOT PRUNING SECTION	DRAWN: ENG	LOCATION:	FILE NO.: REF
		CHECKED: AB	SCALE: N.T.S.	SHEET: 02.9-02
	BUILDING OR PROJECT: CAMPUS STANDARDS	APPROVED: PP&C	DATE: 11/13/03	OF