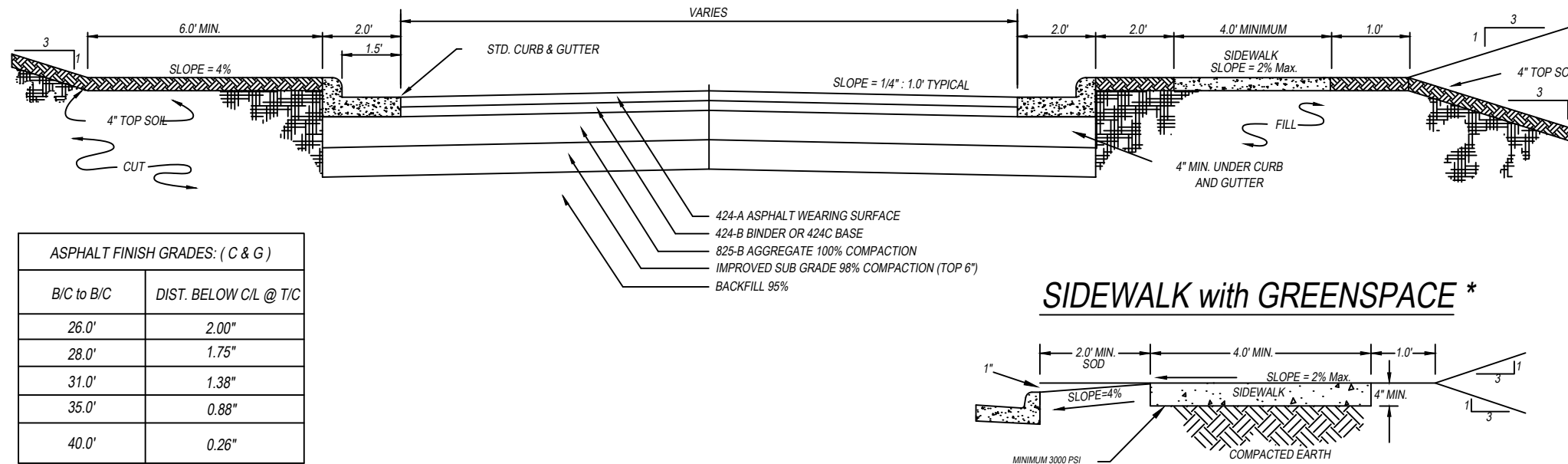
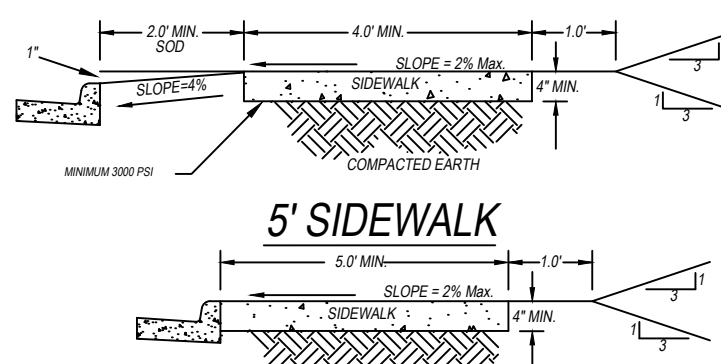


TYPICAL STREET CROSS SECTION WITH CURB/GUTTER AND SIDEWALK



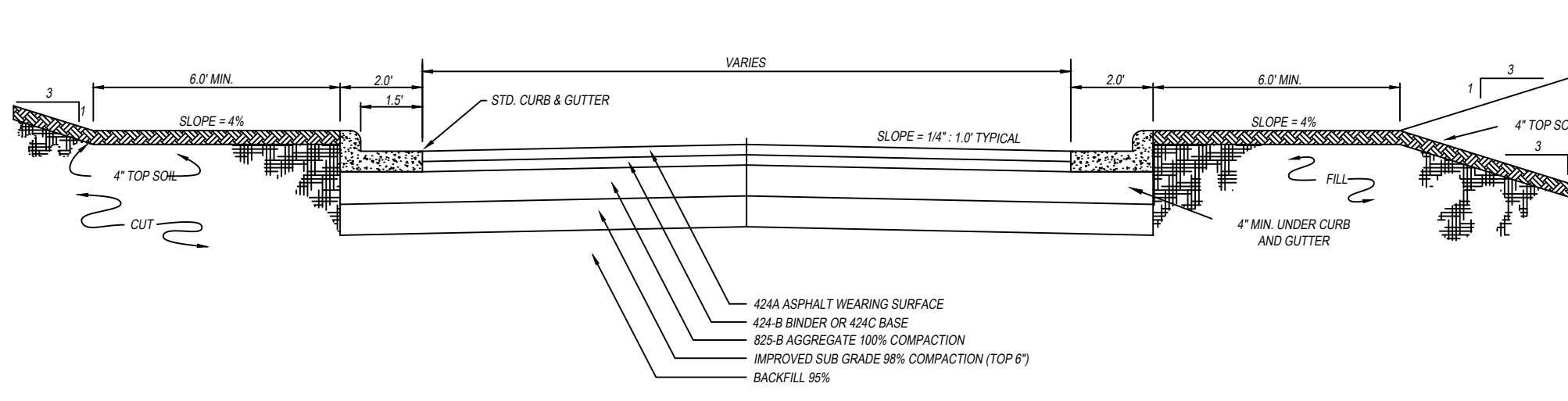
SIDEWALK with GREENSPACE *



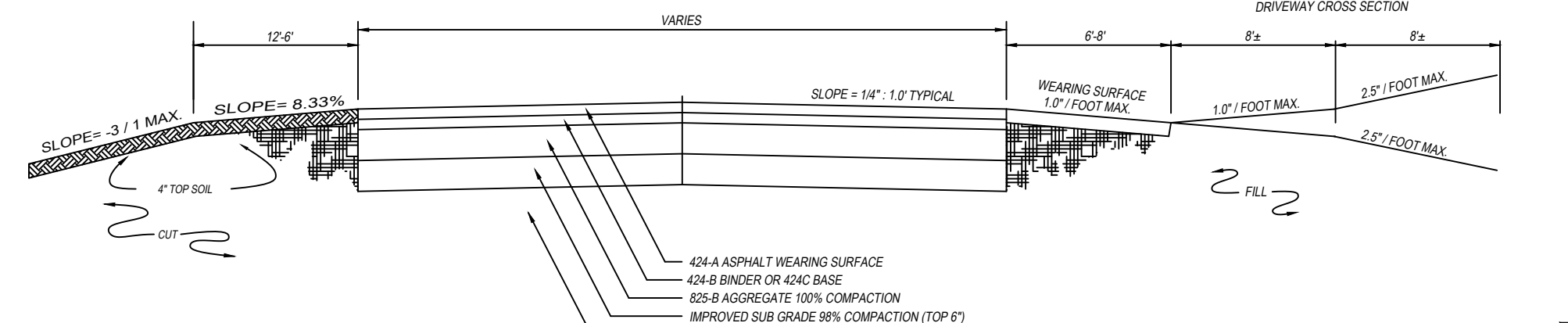
NOTES:
1. PROVIDE 1 1/2" DEEP BY 18" WIDE CONTROL JOINTS EVERY 5' WITH EXPANSION JOINTS EVERY 50'.
2. EXPANSION MATERIAL CAN BE FIBER BOARD OR A TREATED 1X4.
3. WHEN THE DISTANCE BETWEEN THE BACK OF CURB AND THE EDGE OF SIDEWALK IS LESS THAN TWO FEET, THE SIDEWALK MUST BE A MINIMUM OF FIVE FEET WIDE.
4. SIDEWALK ACCESSIBLE ROUTES WITH CLEAR WIDTHS LESS THAN 60 INCHES SHALL PROVIDE PASSING SPACES AT INTERVALS OF 200 FEET MAXIMUM. PASSING SPACES SHALL BE COMPLIANT WITH PROWING STANDARDS.
5. WIDEN SIDEWALK ABOUT INLET TOPS. AS REPAIR PLACED 12" O.C. SHALL BE PLACED 6" MIN. INTO INLET TOP AND 12" MIN. INTO SIDEWALK.
6. 4' FOOT WIDTH IS ALLOWED ON LOCAL STREETS AND CUL-DE-SACS. 5' FOOT MINIMUM IS REQUIRED ON ALL ARTERIALS, COLLECTORS, LOCAL COMMERCIAL, AND RESIDENTIAL COLLECTORS.

5.00

TYPICAL STREET CROSS SECTION WITH CURB AND GUTTER



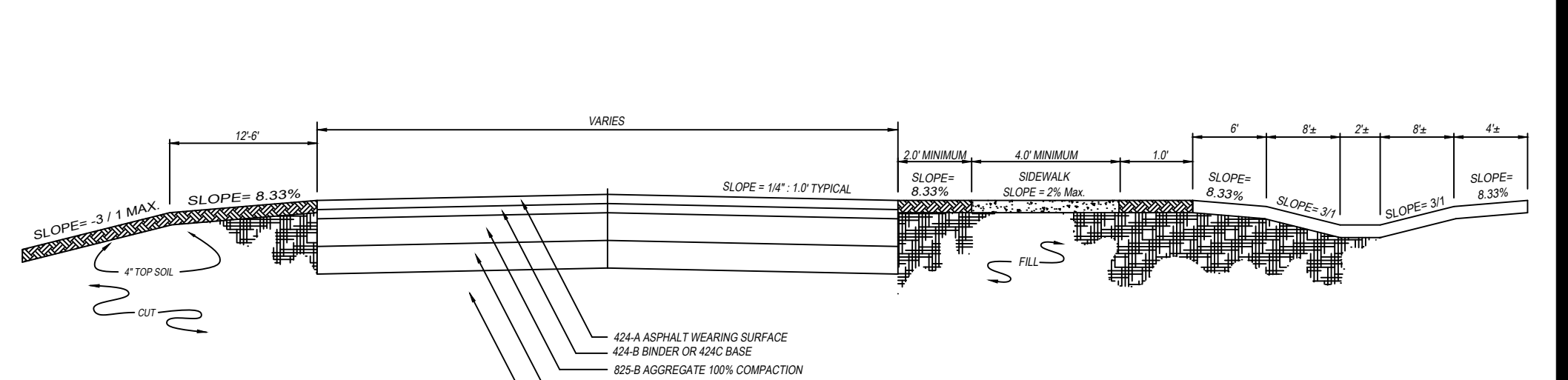
*TYPICAL STREET CROSS SECTION WITHOUT CURB AND GUTTER



* THIS CROSS SECTION ALLOWED ONLY IF THE SIDEWALK REQUIREMENT IS WAIVED BY THE PLANNING COMMISSION.

5.01

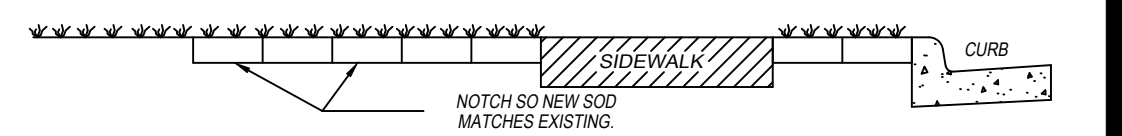
TYPICAL STREET CROSS SECTION WITHOUT CURB/GUTTER, AND WITH SIDEWALK



STREET AND SIDEWALK CONFIGURATIONS				
CLASSIFICATION	B/C to B/C WIDTH	PAVEMENT WIDTH	ROW	SIDEWALK LOCATION
ALLEY (ONE-WAY)	NOT REQUIRED	11'	25'	NOT REQUIRED
ALLEY (TWO-WAY)	NOT REQUIRED	20'	30'	NOT REQUIRED
CUL-DE-SAC	26'	22'	50'	1 SIDE*
LOCAL RESIDENTIAL	26'	22'	50'	BOTH SIDES
LOCAL RESIDENTIAL	28'	24'	50'	1 SIDE*
LOCAL COMMERCIAL	28'	24'	50'	1 SIDE*
RESIDENTIAL COLLECTOR	31'	27'	60'	BOTH SIDES
COLLECTOR	35'	31'	60'	1 SIDE*
COLLECTOR	31'	27'	60'	BOTH SIDES
COLLECTOR @ INTERSECTIONS	40'	36'	60'	BOTH SIDES
ARTERIAL	52'	48'	80'	BOTH SIDES

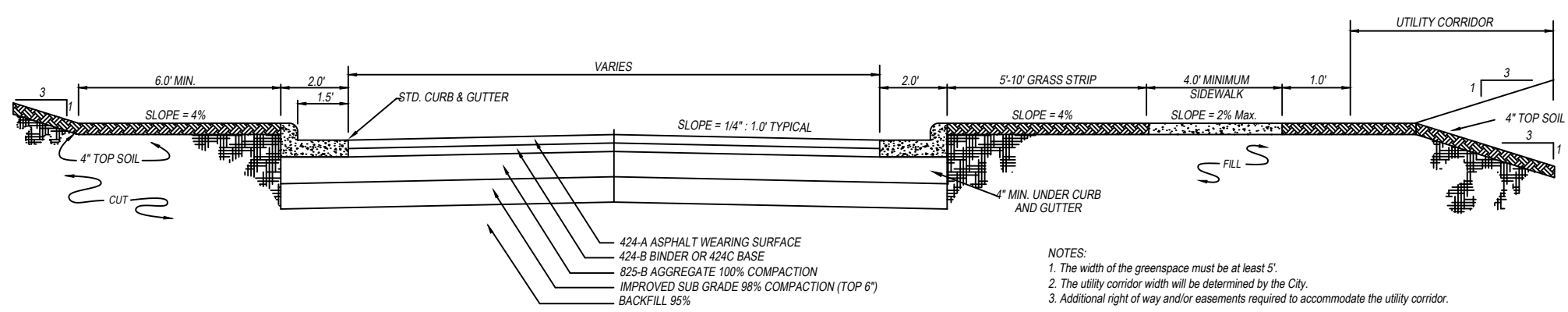
* CITY ENGINEER SHALL DETERMINE LOCATION OF SIDEWALK.

SOD DETAIL

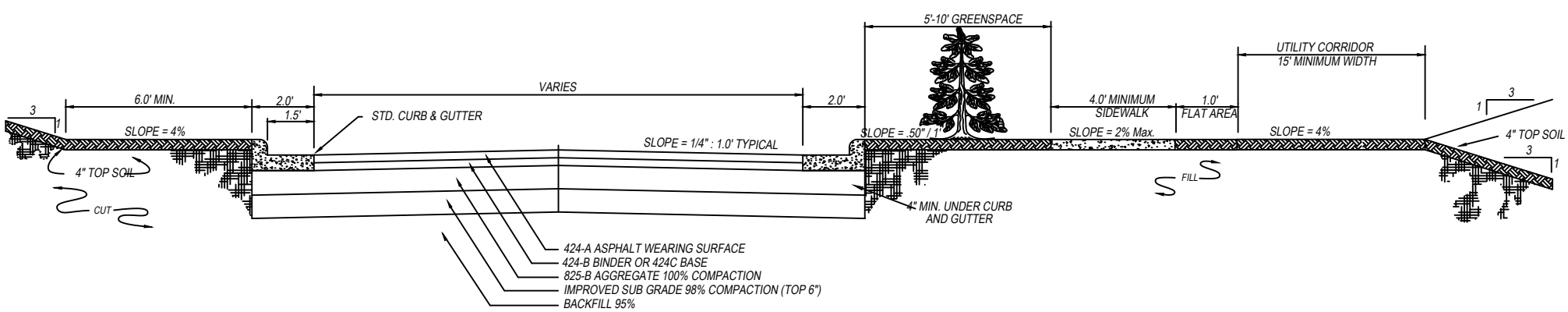


5.02

TYPICAL STREET CROSS SECTION WITH A UTILITY CORRIDOR



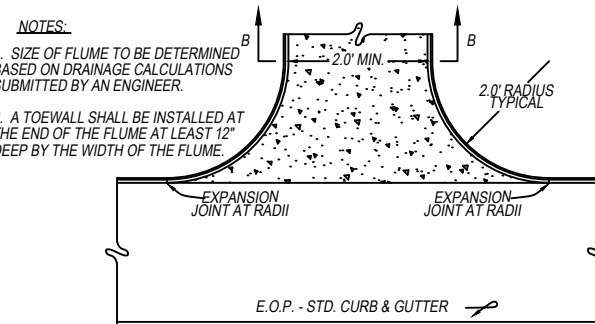
TYPICAL STREET CROSS SECTION WITH A LANDSCAPE CORRIDOR



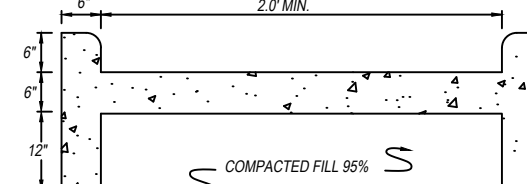
NOTES:
1. THE WIDTH OF THE GREENSPACE MUST BE AT LEAST 5'. IF THE GREENSPACE CONTAINS CANOPY TREES, A 10' MINIMUM WIDTH IS REQUIRED.
2. THE UTILITY CORRIDOR WIDTH SPECIFIED APPLIES WHERE A WATER MAIN IS INSTALLED ON THE NORTH AND EAST SIDES. OTHER WIDTHS MAY BE PERMITTED.
3. ADDITIONAL RIGHT OF WAY AND/OR EASEMENTS REQUIRED TO ACCOMMODATE THE UTILITY CORRIDOR.
4. THE UTILITY CORRIDOR CAN BE USED ON BOTH SIDES OF THE STREET. MINIMUM WIDTHS AND CONFIGURATION WILL BE BASED ON THE PRESENCE OF SIDEWALK.

5.03

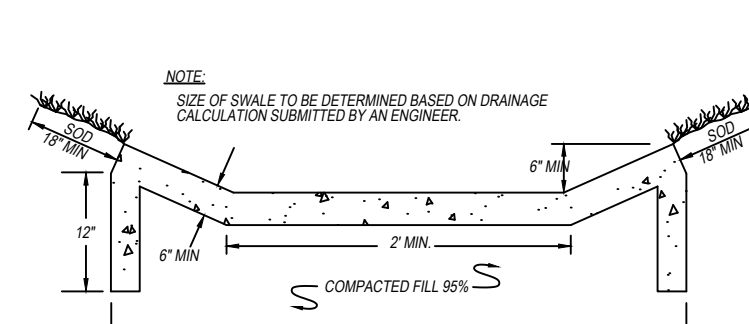
FLUME DETAIL



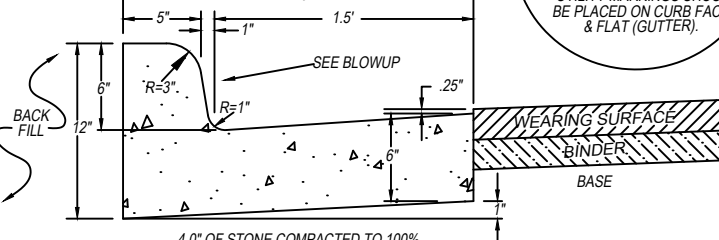
FLUME DETAIL SECTION B-B



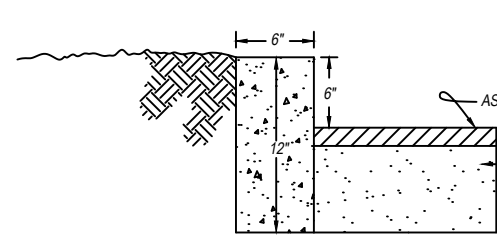
CONCRETE SWALE



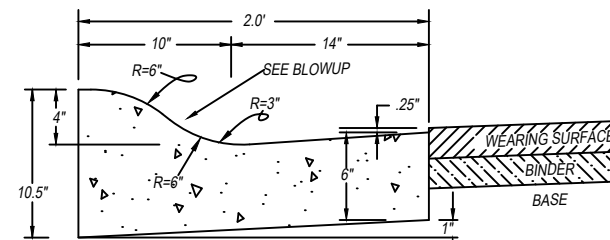
CURB & GUTTER



HEADER CURB

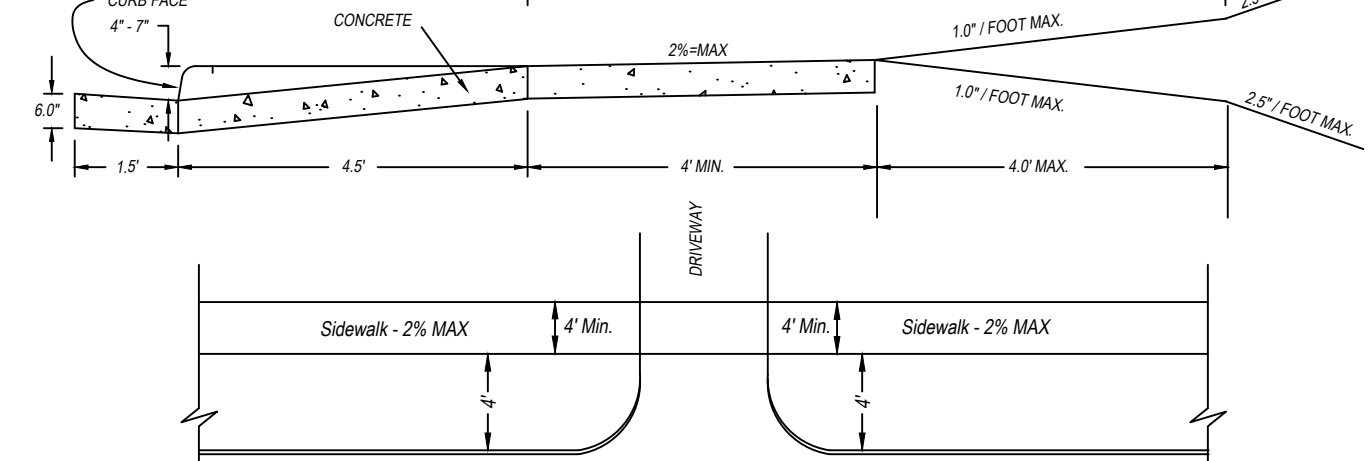


ROLL CURB

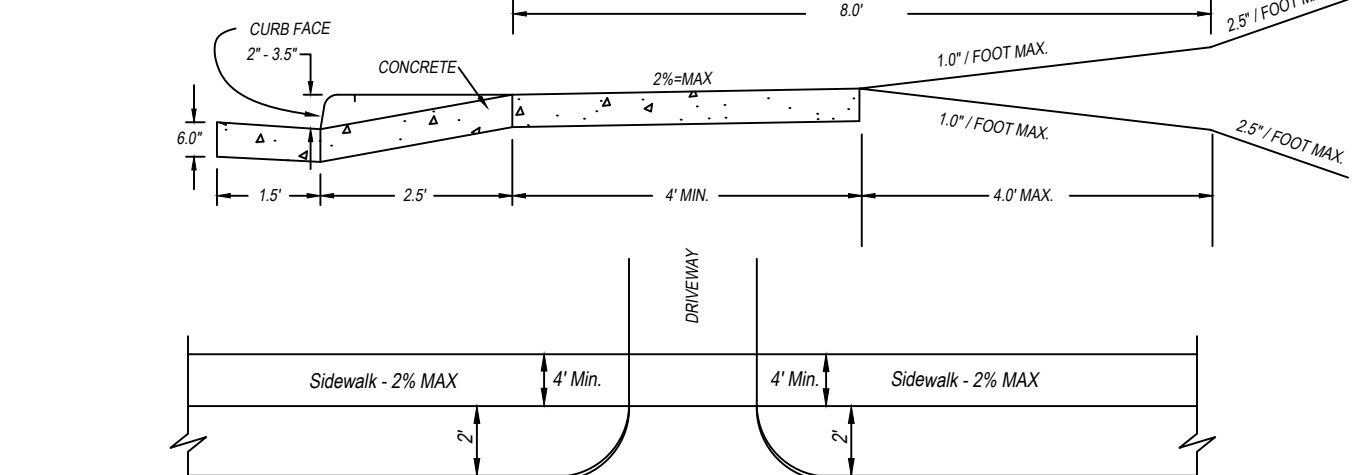


5.04

DRIVEWAY / SIDEWALK WITH 4.0' GREENSPACE



DRIVEWAY / SIDEWALK WITH 2.0' GREENSPACE



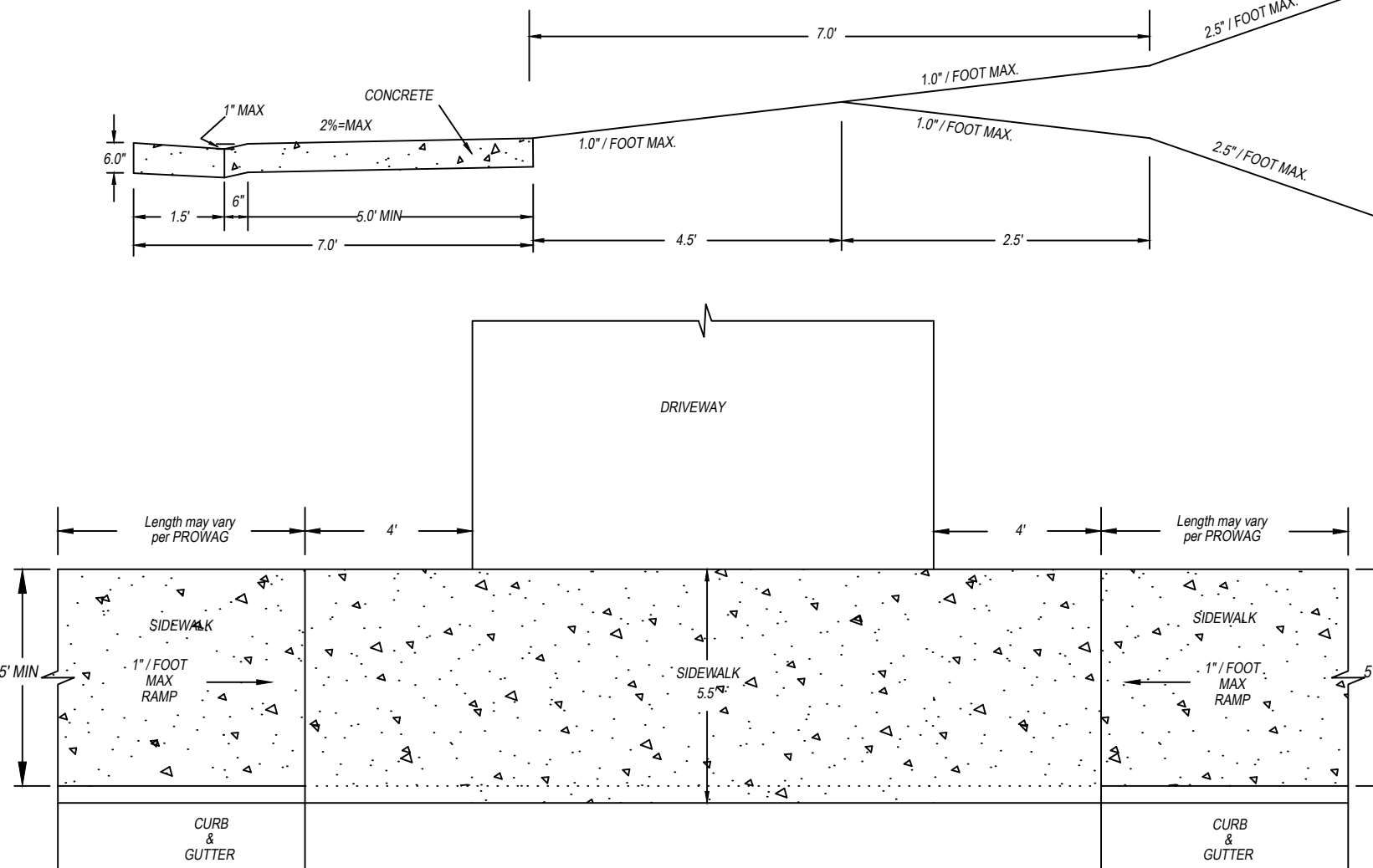
5.05

NOTES:

- SIDE SLOPES FOR STREETS SHALL VARY FROM A POINT SIX (6) FEET BEHIND THE CURB TO THE EXISTING ELEVATION AT THE RIGHT OF WAY (R.O.W.), EXCEPT THAT SUCH SLOPE SHALL NOT BE GREATER THAN 3:1. IN CASES WHERE A 3:1 SLOPE CARRIES THE CONSTRUCTION LIMITS BEYOND THE R.O.W. LINE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY CLEARING & GRUBBING, EXCAVATION, BACKFILL, MULCHING OR ANY OTHER WORK REQUIRED TO ACCOMMODATE THE 3:1 SLOPE. IN CASES WHERE ROCK IS ENCOUNTERED, THE SLOPE MAY BE 2.5:1 IN THE ROCK PORTION.
- FOR PORTLAND CEMENT CONCRETE PAVEMENTS, THE TYPICAL CROSS SECTION SHALL BE DESIGNED ON A CASE BY CASE BASIS.
- CURB AND GUTTER SHALL BE CAST IN PLACE WITH THE FOLLOWING REQUIREMENTS: EXPANSION JOINT AT FIFTY (50.0) FOOT INTERVALS WITH DUMMY JOINTS AT TEN (10.0) FOOT INTERVALS. WHEN ELECTRIC, GAS, SEWER OR WATER SERVICE LINES ARE IN PLACE, AN "E", "G", "S" OR "W" SHALL BE MARKED ON CURB FACE AND FLAT/GUTTER AT THE APPROPRIATE LOCATIONS. AFTER THE CURB & GUTTER HAS BEEN CURED, EXTRA PRECAUTIONS WILL BE TAKEN DURING BACKFILLING AND/OR OTHER ACTIVITIES TO PREVENT DAMAGE OR MARRING OF FINISH; REFER TO CURB & GUTTER DETAILS FOR PLACEMENT OF UTILITY MARKINGS WITH A MIN. OF 4"x2" LETTERS.
- ALL ROADWAY MATERIALS (ASPHALT AND CRUSHED AGGREGATE BASE) SHALL COMPLY WITH THE CURRENT ALDOT STANDARDS, UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.
- TACK POINTS (PRIME) SHALL BE APPLIED PRIOR TO WEARING SURFACE APPLICATION, AND BETWEEN LAYERS OF PAVEMENT MATERIAL FOR RESURFACING PROJECTS. TACK SHALL COMPLY WITH CURRENT ALDOT SPECIFICATIONS. IN ADDITION, IF PAVING OPERATION IS DELAYED, OR EDGES BECOME DIRTY OR MUDDY, ALL DIRT AND MUD MUST BE REMOVED PRIOR TO APPLYING TACK COAT.
- BASE AND WEARING SURFACE REQUIREMENTS ARE BASED ON CBR OF 6.9 FOR SUBGRADE SOILS. ALTERNATE DESIGN FOR FULL DEPTH PAVEMENTS OR VARIANCE TO LISTED THICKNESSES WILL BE CONSIDERED ON A CASE BY CASE BASIS, BASED ON SUBGRADE SOILS AND/OR EXPECTED TRUCK TRAFFIC.
- PROVIDE 1 1/2" DEEP BY 18" WIDE CONTROL JOINTS EVERY 5' WITH EXPANSION JOINTS EVERY 50'. EXPANSION MATERIAL CAN BE FIBER BOARD OR A TREATED 1X4.
- FOR NON CURB AND GUTTER STREETS, A PAVED DRIVEWAY TURNOUT IS REQUIRED. SLOPES MUST MEET ILLUSTRATED REQUIREMENTS ON THESE DETAILS.
- ALL TREE PLANTINGS WITHIN THE RIGHT OF WAY MUST BE APPROVED BY THE CITY OF AUBURN PUBLIC WORKS DEPARTMENT PRIOR TO INSTALLATION. PLANTINGS SHALL BE IN ACCORDANCE WITH THE STANDARD DETAIL.
- WHEN A DEVELOPMENT WARRANTS THE WIDENING OF THE ROADWAY THAT WILL ALTER THE CURRENT TRAFFIC STRIPING, THE DEVELOPER, AT THEIR EXPENSE, SHALL PROVIDE A ONE INCH (1") OVERLAY. THE LIMITS OF THE OVERLAY SHALL COVER ALL TRAVEL LANES AND WILL BEGIN AND END AT THE LIMITS OF THE ALL ROADWAY IMPROVEMENTS.
- THE GUTTER DEPTH MAY BE USED TO ACCOUNT FOR THE DEPTH OF PARKING SPACE PROVIDED THERE IS A TWO FOOT GRASS STRIP BETWEEN THE BACK OF CURB AND THE FOUR FOOT WIDE SIDEWALK. IF SIDEWALK IS PLACED IMMEDIATELY ADJACENT TO THE BACK OF CURB AND THE GUTTER DEPTH IS USED FOR PARKING THE SIDEWALK SHALL BE INCREASED TO FIVE FEET WIDE. IN NO CASES SHALL THE GUTTER WIDTH BE COUNTED TOWARD THE WIDTH OF A PARKING SPACE.
- JOINT SEAL SHALL BE PLACED ON THE BINDER LAYER IF THE WEARING SURFACE IS NOT APPLIED FOR 12 MONTHS.
- SIDEWALK CROSS SLOPES SHALL BE 1% MINIMUM.

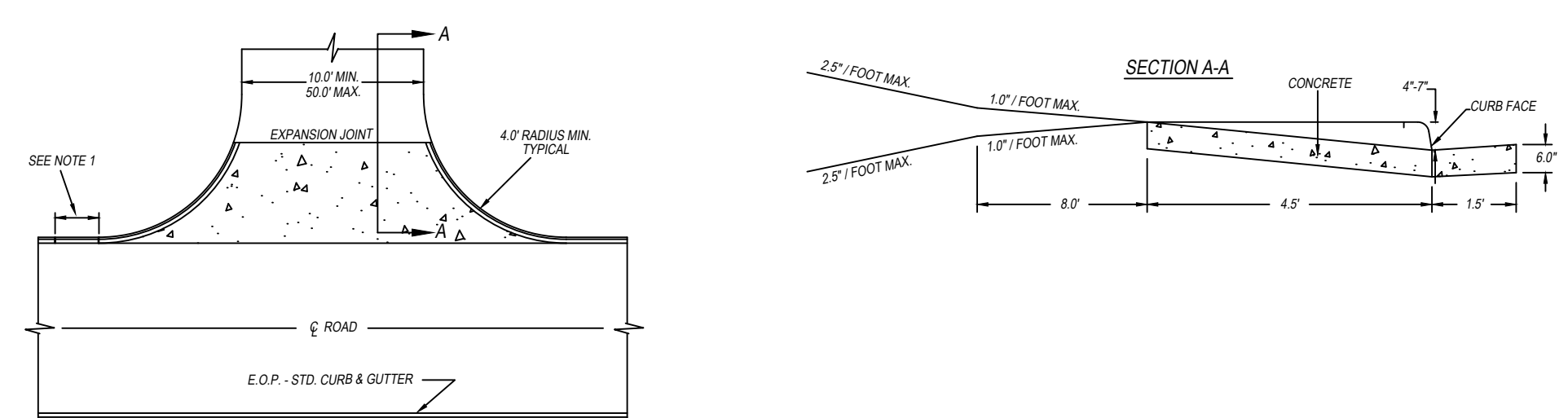
5.06

DRIVEWAY / SIDEWALK WITHOUT GREENSPACE



5.07

STANDARD DRIVEWAY



NOTES:
1. DISTANCE FROM RADII POINT TO EXISTING EXPANSION OR CONSTRUCTION JOINT SHALL BE AT LEAST 3'.
2. IF THE DISTANCE IS LESS THAN 3', CURB & GUTTER SHALL BE REPLACED TO THE EXISTING JOINT.
3. THE 10' FOOT MINIMUM WIDTH FOR RESIDENTIAL USES ON LOCAL STREETS, CUL-DE-SACS, AND ALLEYS. ALL OTHERS WILL BE TWELVE FOOT MINIMUM WIDTH. THE 5' WIDTH IS RESERVED FOR COMMERCIAL AND MULTI-UNIT RESIDENTIAL DEVELOPMENTS FOR ALL OTHER RESIDENTIAL USES. THE MAXIMUM DRIVEWAY WIDTH SHALL BE 4'.
4. DRIVEWAY TURNOUT WIDTHS ARE MEASURED AT THE RIGHT OF WAY.
5. READY-MADE CURB & GUTTER FOR DRIVEWAY TURNOUT PLACEMENT. SAW CUTTING IS PERMITTED ALONG THE CURB LINE. GUTTER TO MAINTAIN EXISTING GUTTER.
6. ALL CONCRETE SHALL BE A MINIMUM OF SIX INCHES THICK.
7. RADII FOR USES OTHER THAN RESIDENTIAL MUST BE TWENTY-FIVE FOOT MINIMUM.
8. ON STREETS WITH SIDEWALK CONCRETE DRIVEWAY TURNOUT MUST EXTEND TO THE BACK EDGE OF THE SIDEWALK.
9. CONCRETE DRIVEWAY TURNOUT MUST MEET CITY STANDARDS OR CAN BE DESIGNED TO SITE SPECIFIC CONDITIONS.
10. IF ON A NON-CURB AND GUTTER STREET AN ASPHALT APRON MAY BE UTILIZED.

5.08

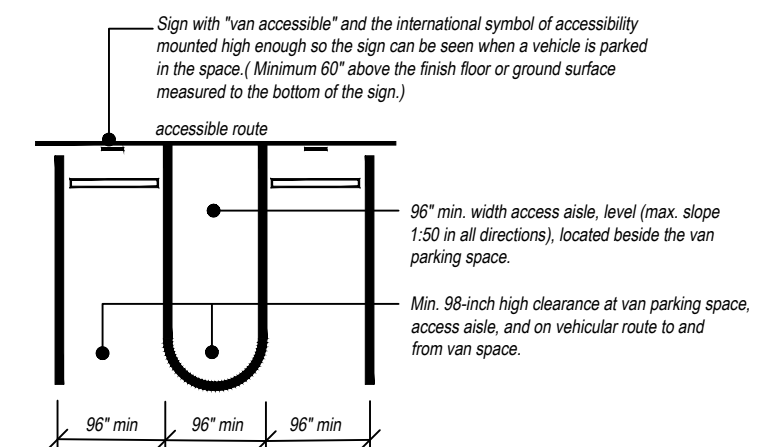
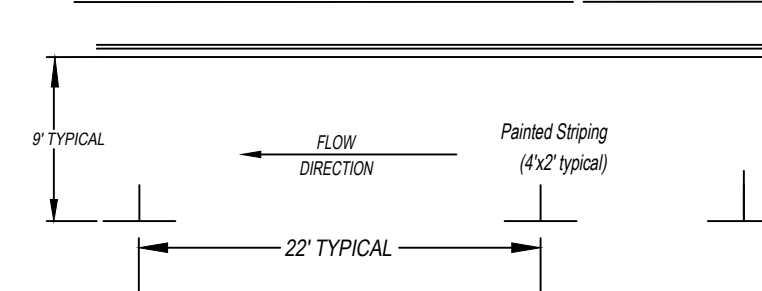
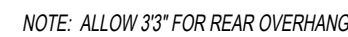
STANDARD DETAILS: STREETS - SHEET 1 of 4



DEPARTMENT:	ENGINEERING SERVICES	REVISIONS:	
SCALE:	N.T.S.	01-01-2024:	5.01, 5.01, 5.06, 5.08
DRAWN BY:	GINA MCCRICKARD		
CITY ENGINEER:	ALISON FRAZIER		
APPROVED BY:	ALISON FRAZIER		
IMPLEMENTED:	01-01-2022		

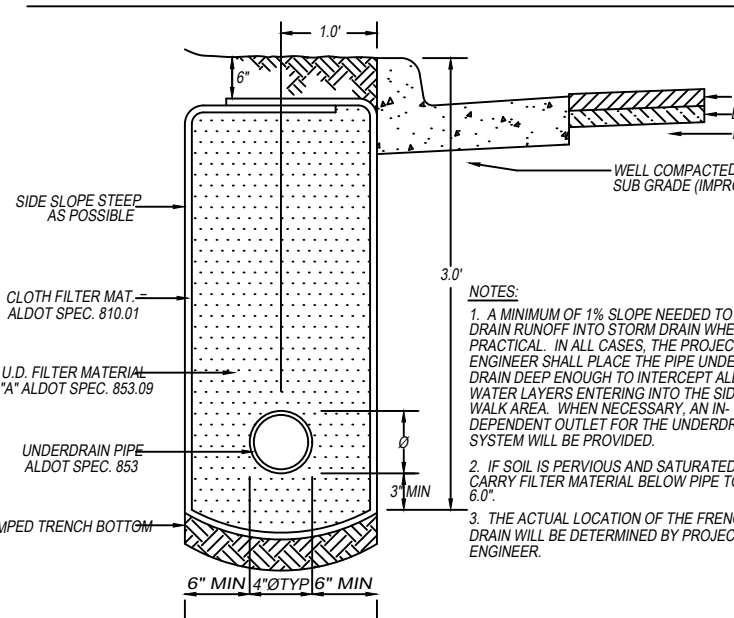
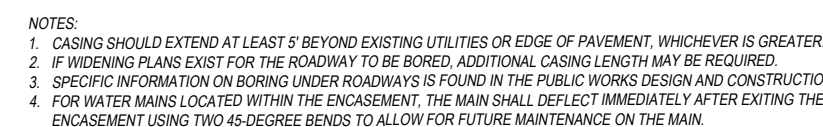
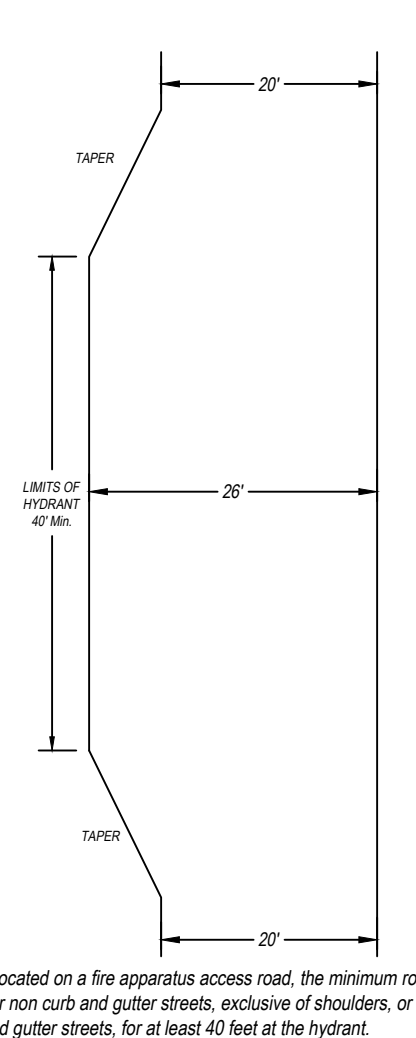
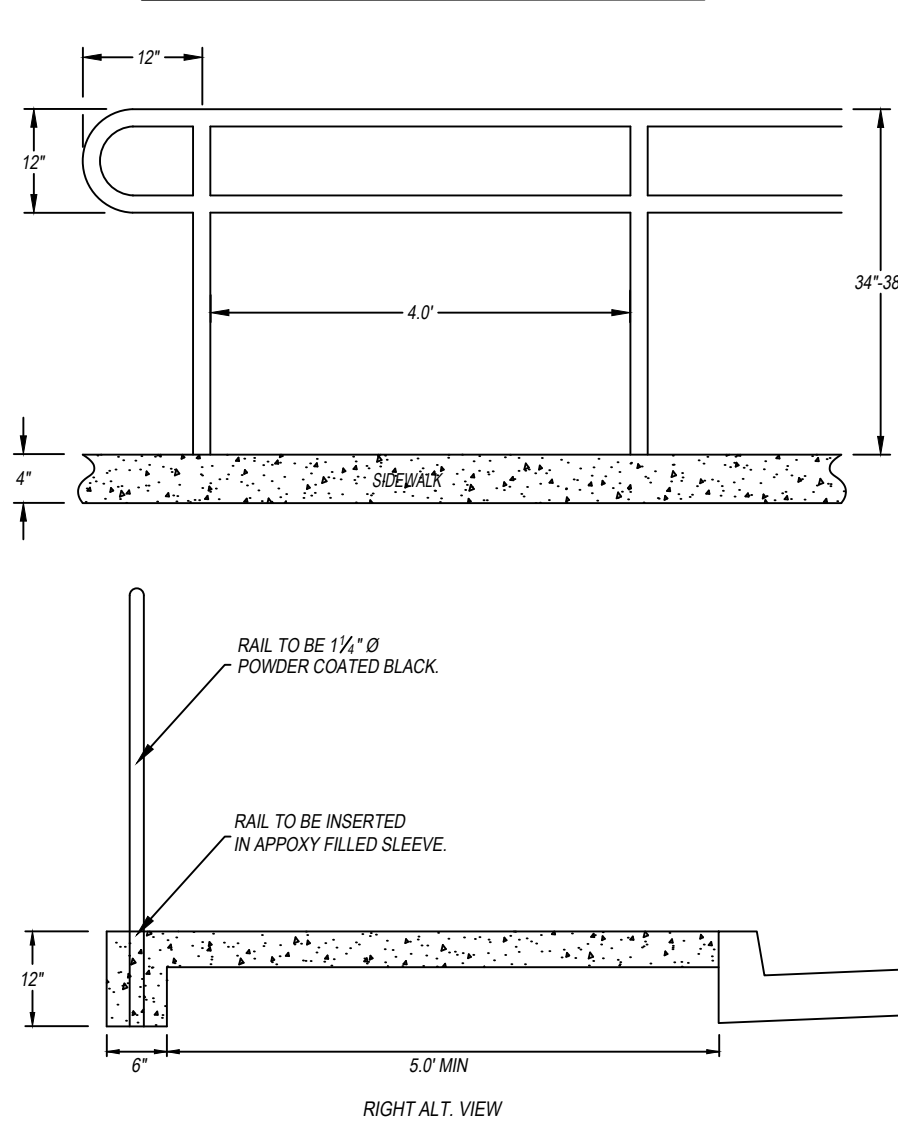
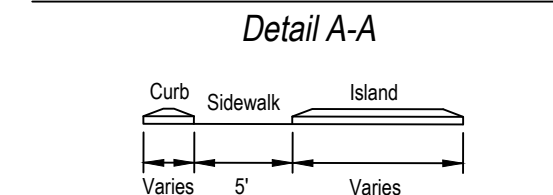
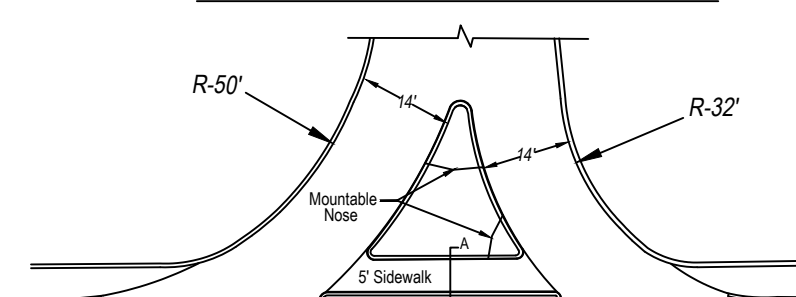
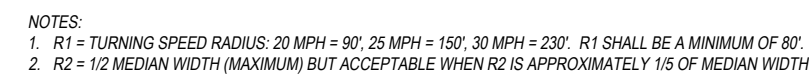
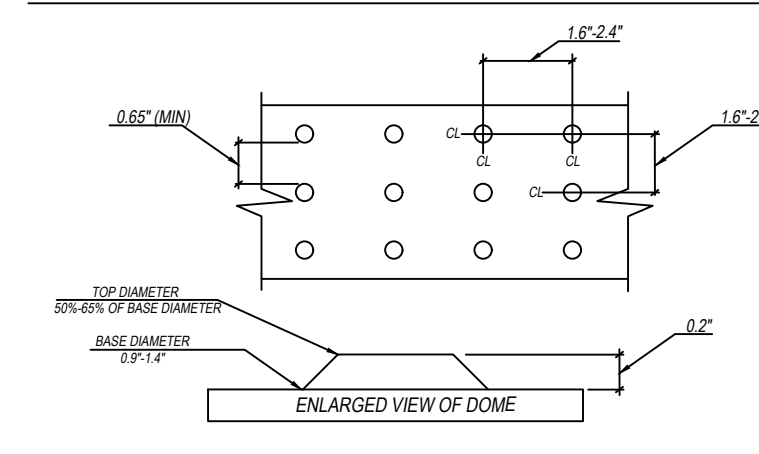
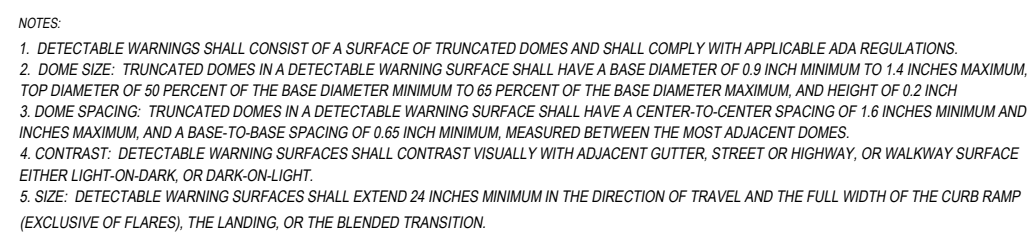
EFFECTIVE DATE:

2024

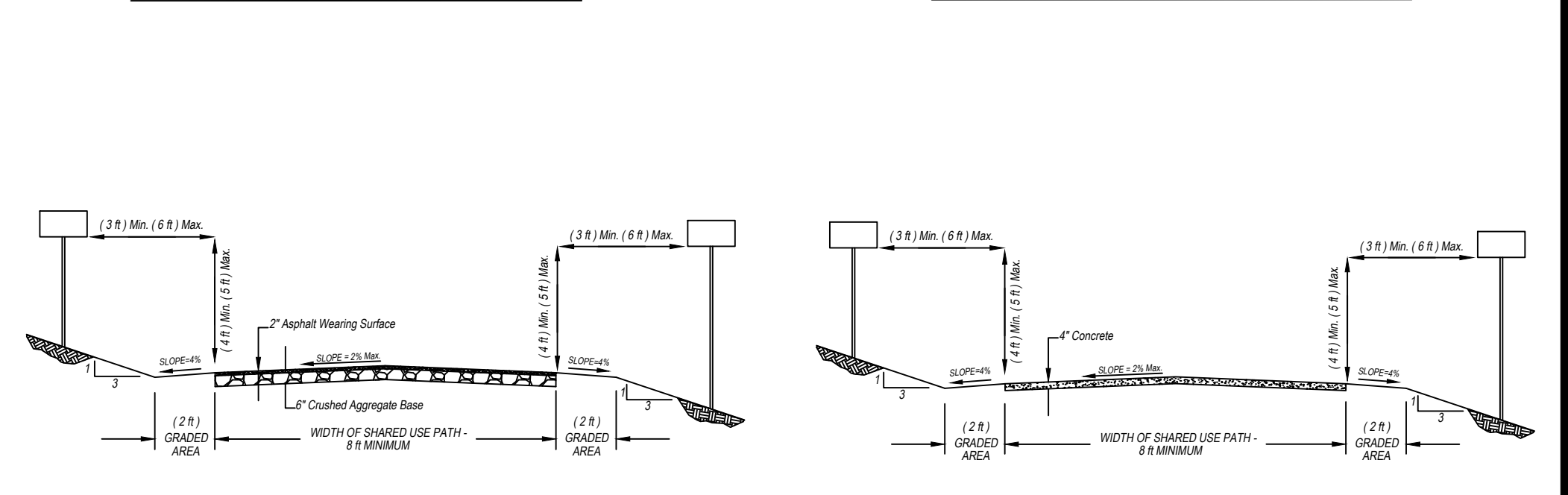
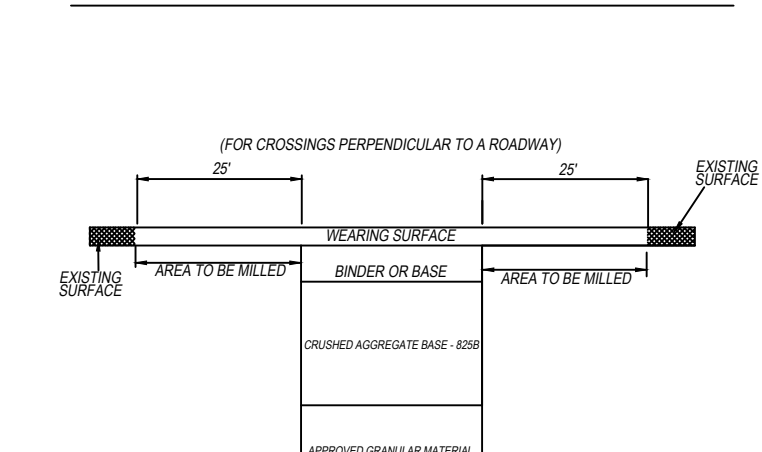
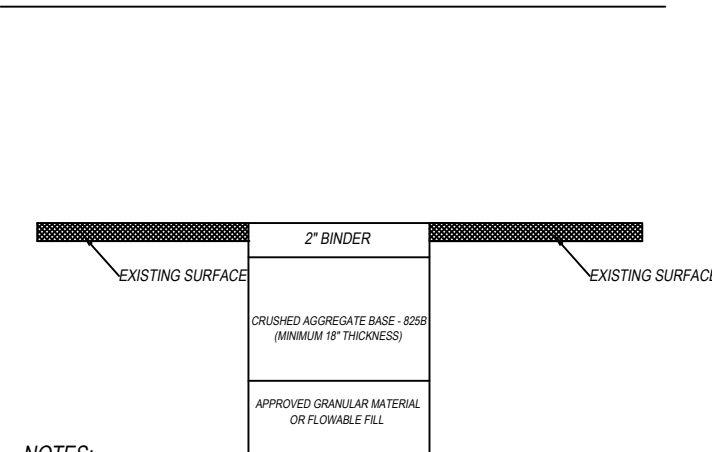


Where parking is provided, accessible parking spaces shall be provided in accordance with this table.

REFERENCE:
INTERNATIONAL BUILDING CODE, LATEST EDITION.



*CASING DIAMETERS BASED ON BEING A MINIMUM OF 6 INCHES GREATER THAN THE OUTER DIAMETER OF THE JOINT BELL TO THE NEAREST EVEN SIZE.

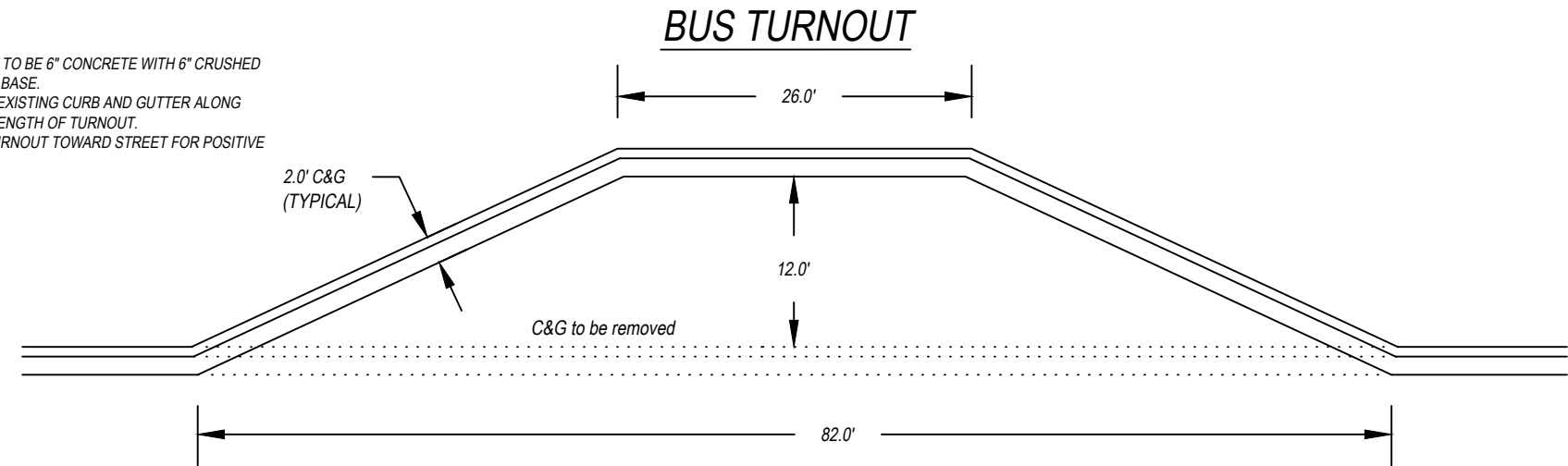


NOTES: MIXES SHALL COMPLY WITH THE LATEST EDITION OF THE ALABAMA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS.
* BINDER OR BASE LAYER TO BE PLACED IN TWO EQUAL LIFTS.

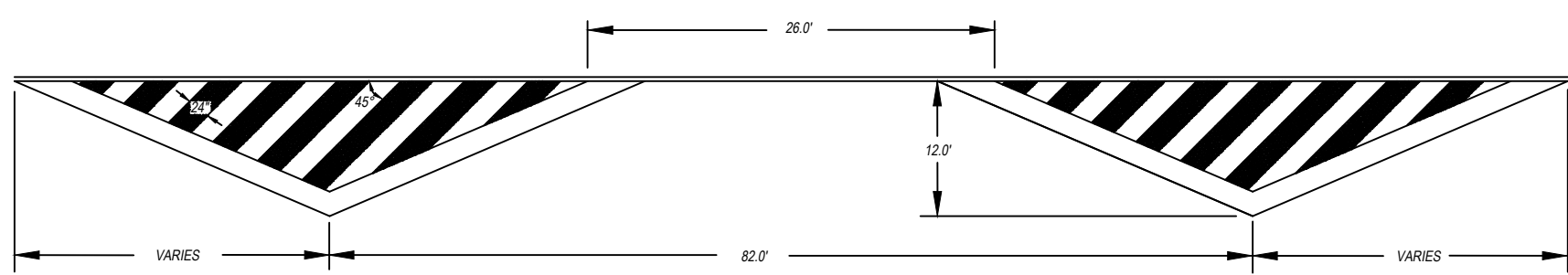
	PRIMARY PATH WIDTH	PRIMARY PATH DEPTH	SECONDARY PATH WIDTH	SECONDARY PATH DEPTH
ASPHALT	12.0'	2.0/6.0"	8.0'	2.0/6.0"
CONCRETE	12.0'	6.0"	8.0'	4.0"

NOTES

1. TURNOUT TO BE 6" CONCRETE WITH 4" CRUSHED AGGREGATE BASE.
2. REMOVE EXISTING CURB AND GUTTER ALONG COMPLETE LENGTH OF TURNOUT.
3. SLOPE TURNOUT TOWARD STREET FOR POSITIVE DRAINAGE.

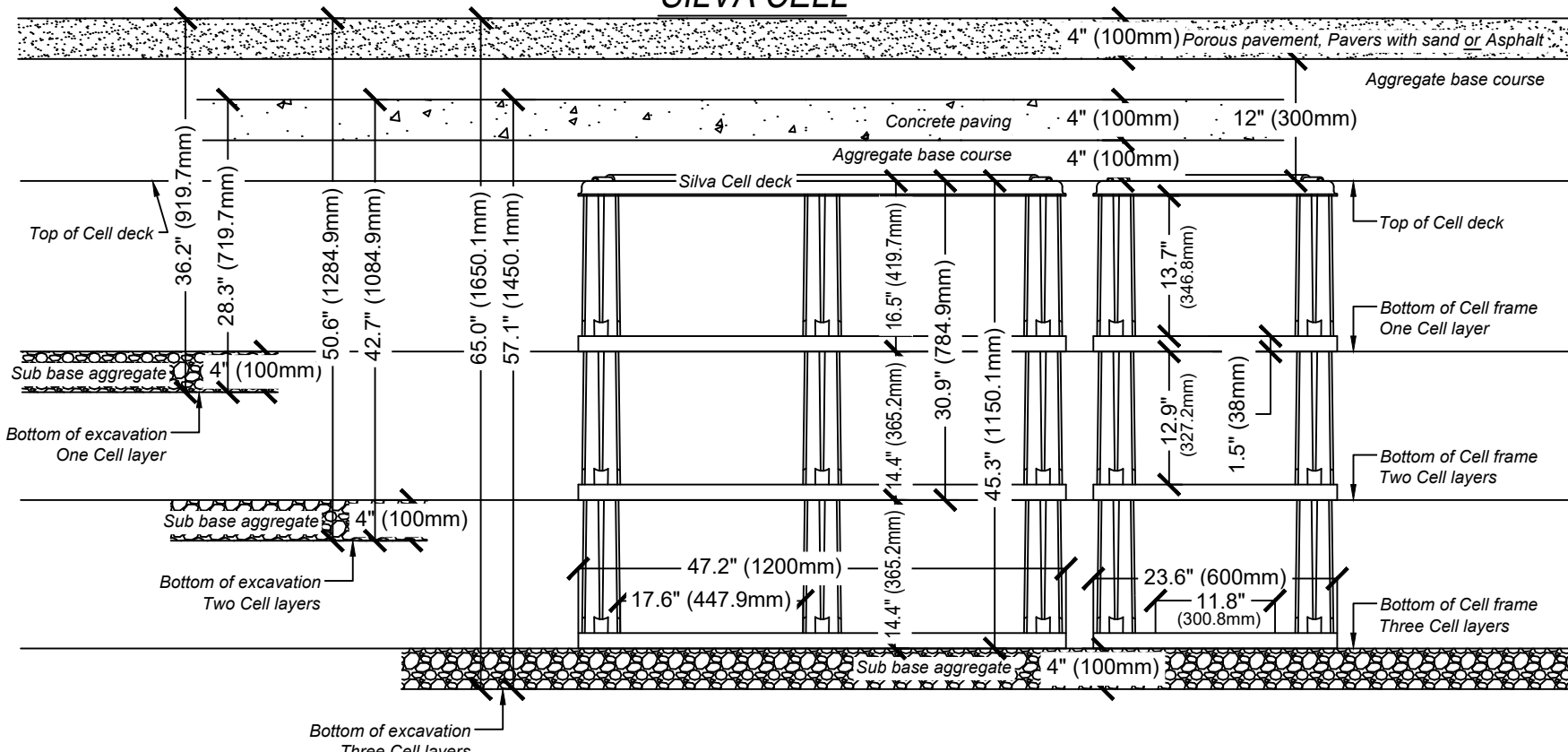


BUS TURNOUT DETAIL PAINTED



5.18

SILVA CELL



This detail shall be used in conjunction with Silva Cells for Trees Details and Specifications.
The above information contained in this standard detail is not to scale.

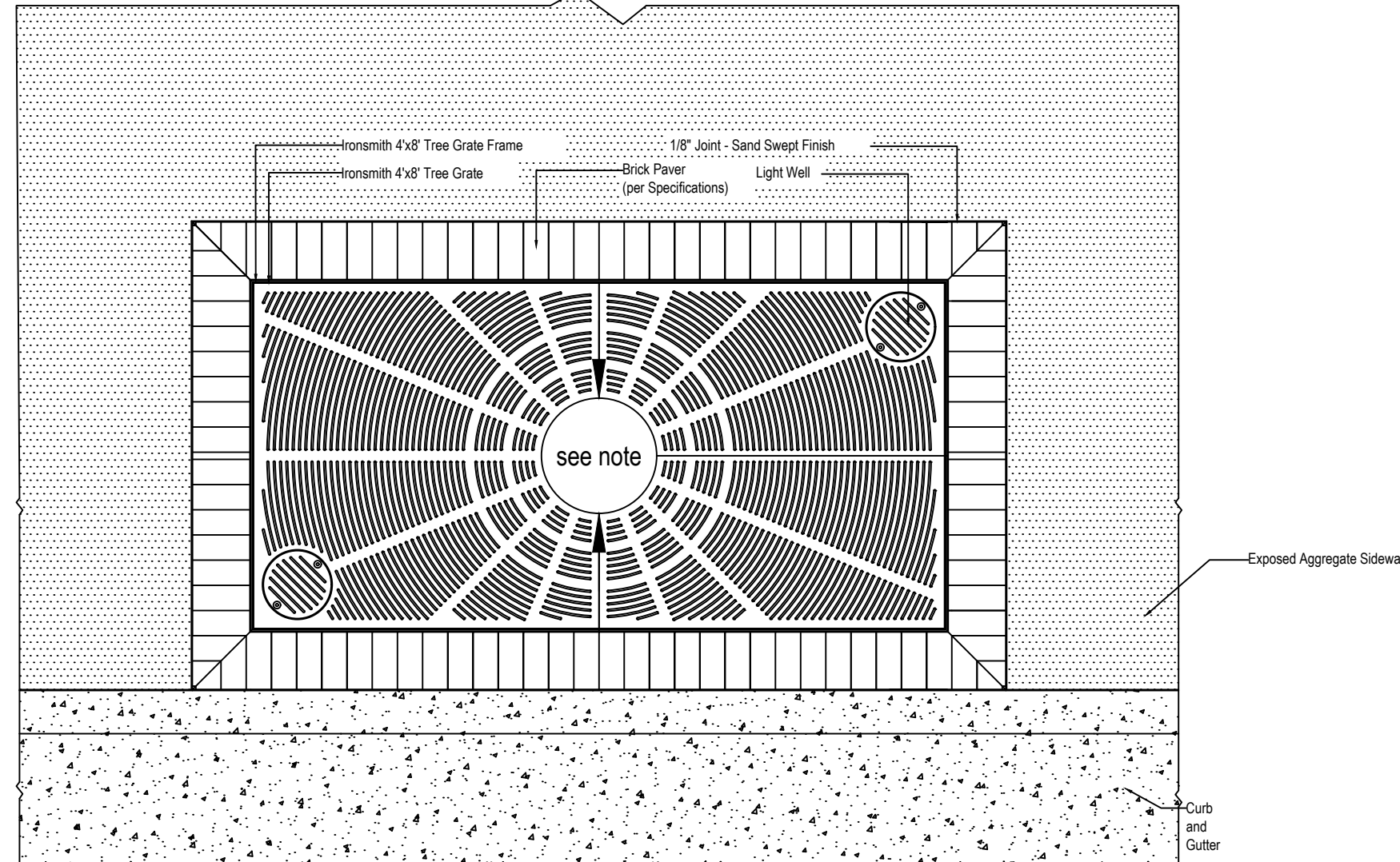
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Contractor shall resolve utility conflicts using the manufacturers recommended utility conflict details.

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338 Washington Street
San Francisco, California 94111
Ph: 415.781.0700
www.deeproot.com
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5.19

TREE GRATE

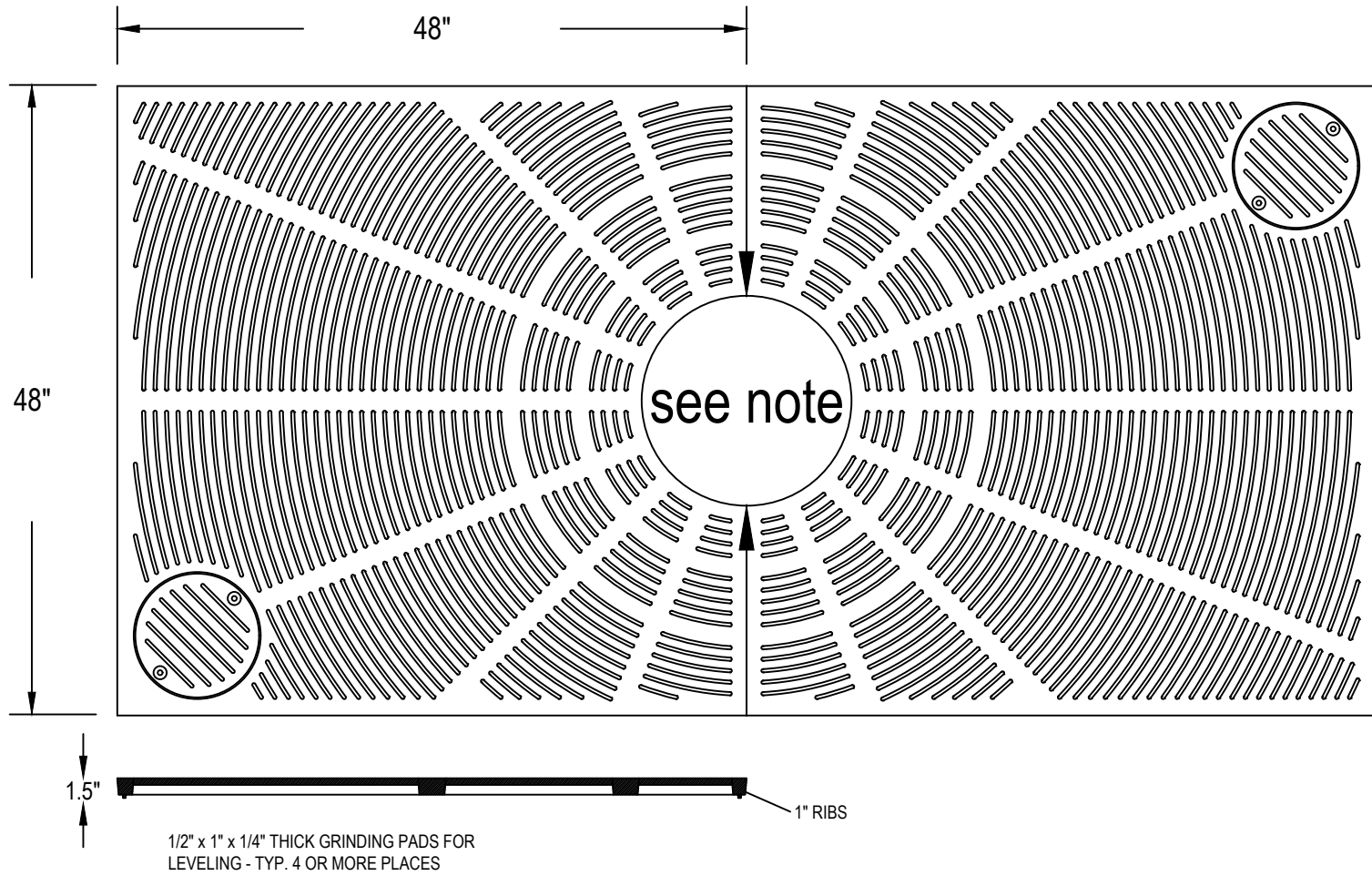


TREE GRATE #M9628
STYLE: OLYMPIAN

NOTE:
1. BRICK PAVER COLOR- PINE HALL BRICK ENGLISH
EDGE FULL RANGE, OR APPROVED EQUAL.

5.20

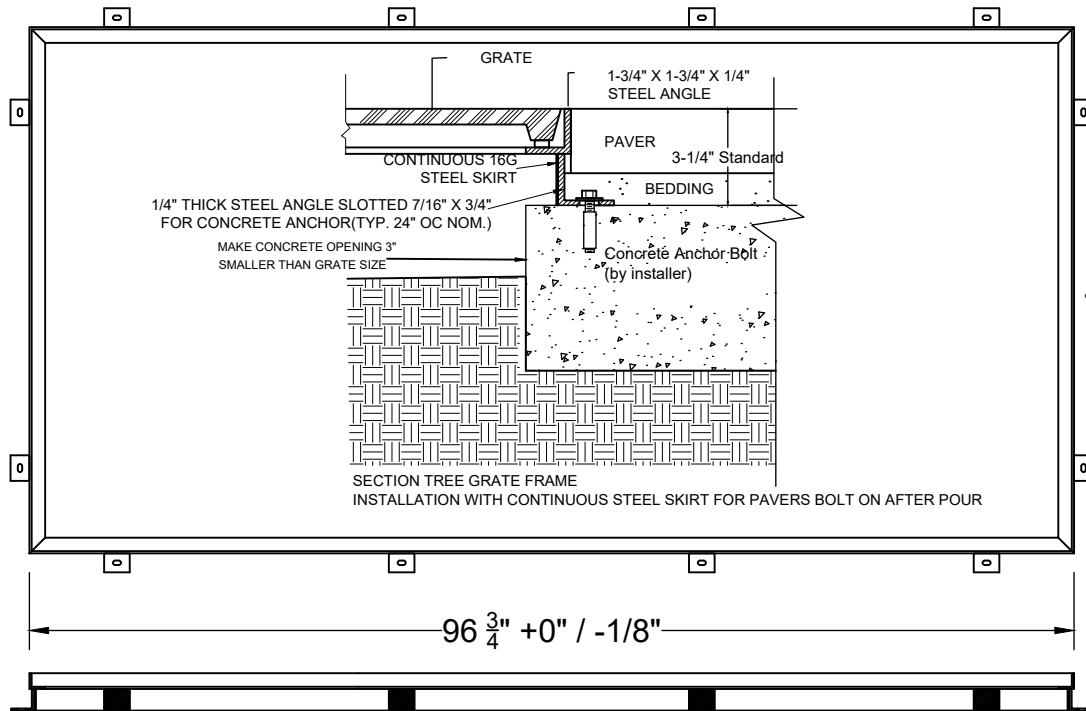
TREE GRATE



SLOT WIDTH IS 1/4" MAXIMUM, MEETS ADA COMPLIANCE.
GRATE CAST FROM GRAY IRON
TREE OPENING SIZE TO BE 16"
STEEL ANGLE FRAME REQUIRED
FOR INSTALLATION USE MODEL M48X96F
OUTER FRAME DIM. IS 3/4" ± 1/8"
GREATER THAN GRATE.

5.21

TREE GRATE

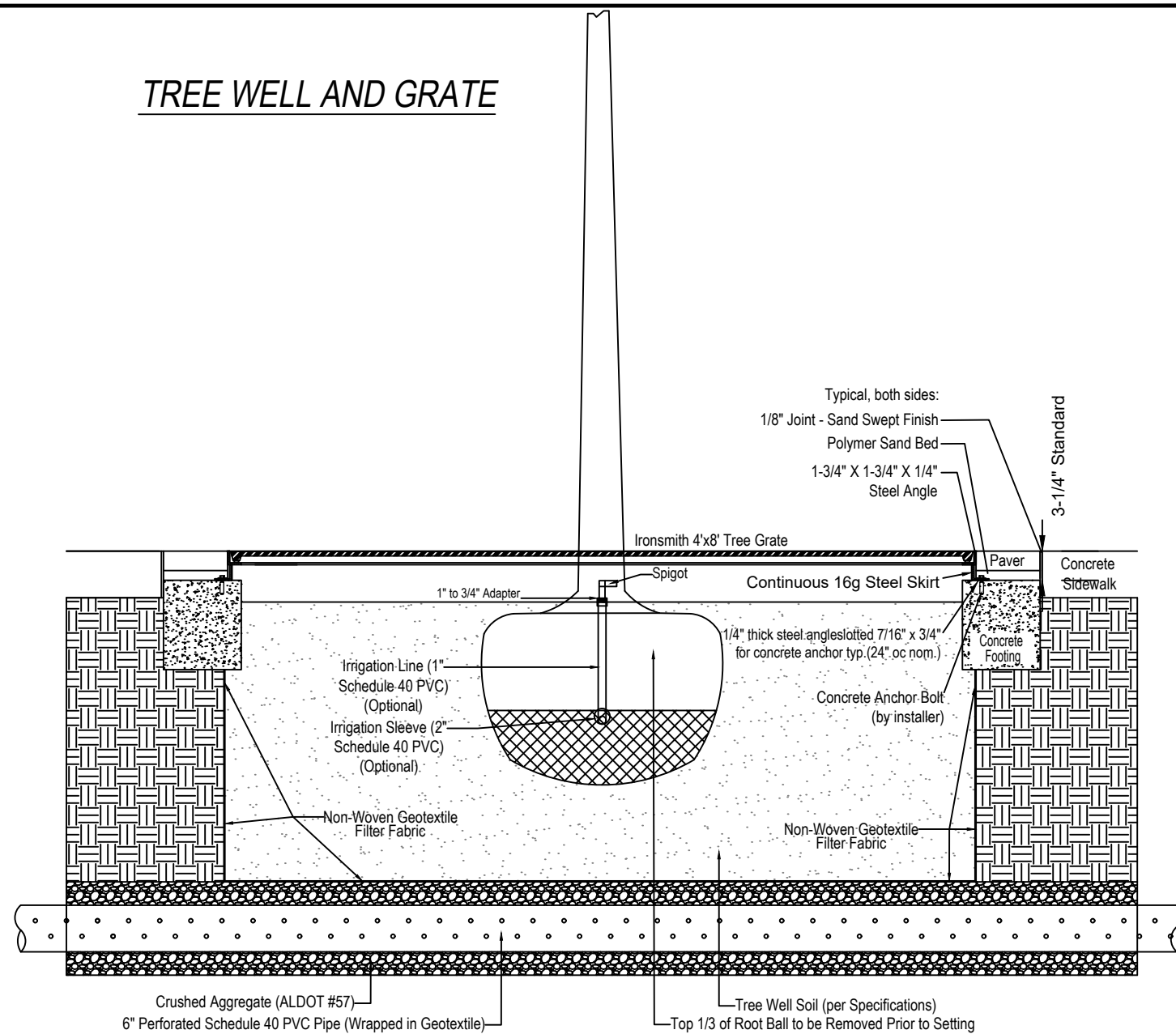


IRONSMITH
41-701 CORPORATE WAY, #3
PALM DESERT, CA 92260
(800) 338-4766
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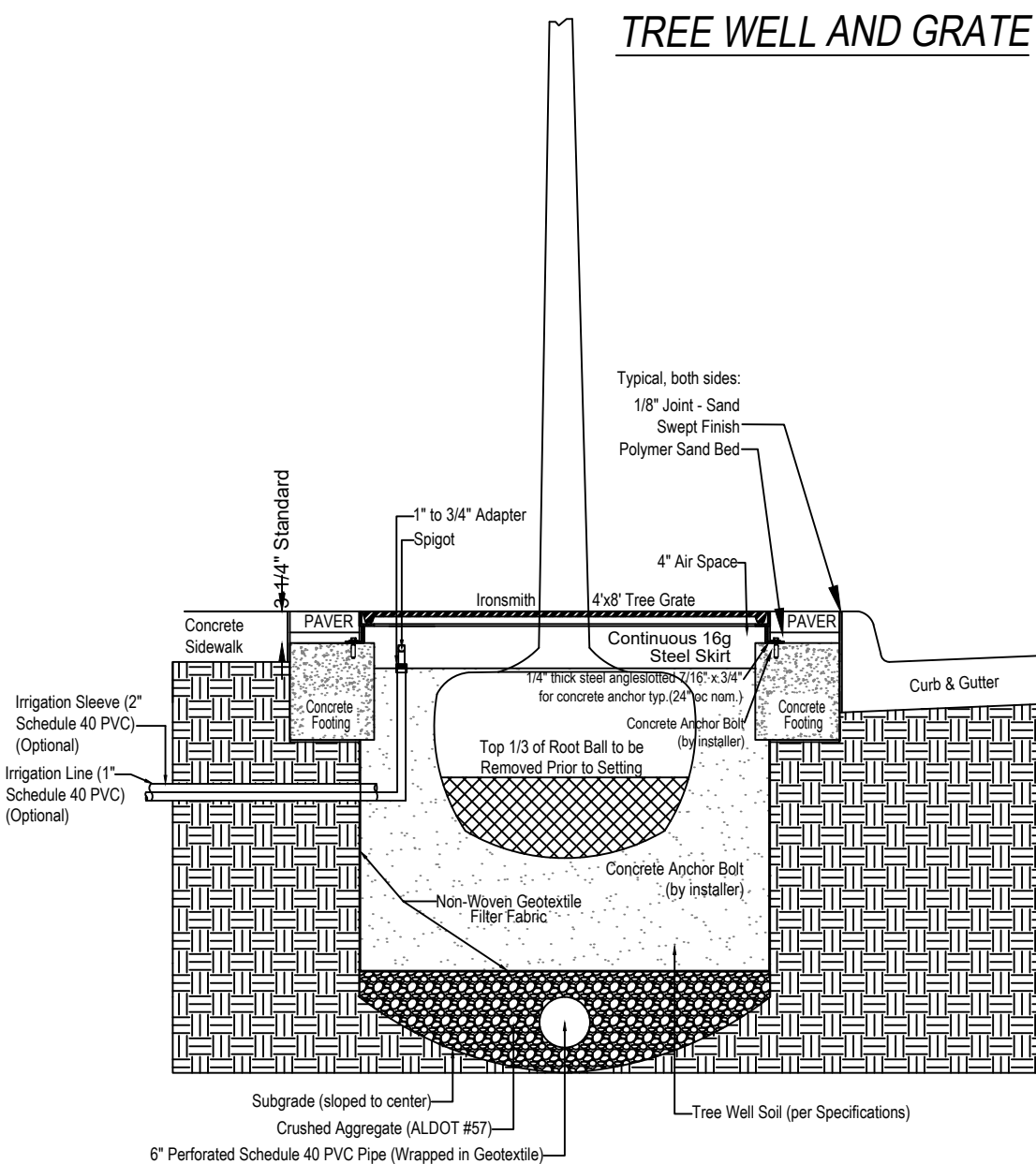
5.22

TREE WELL AND GRATE



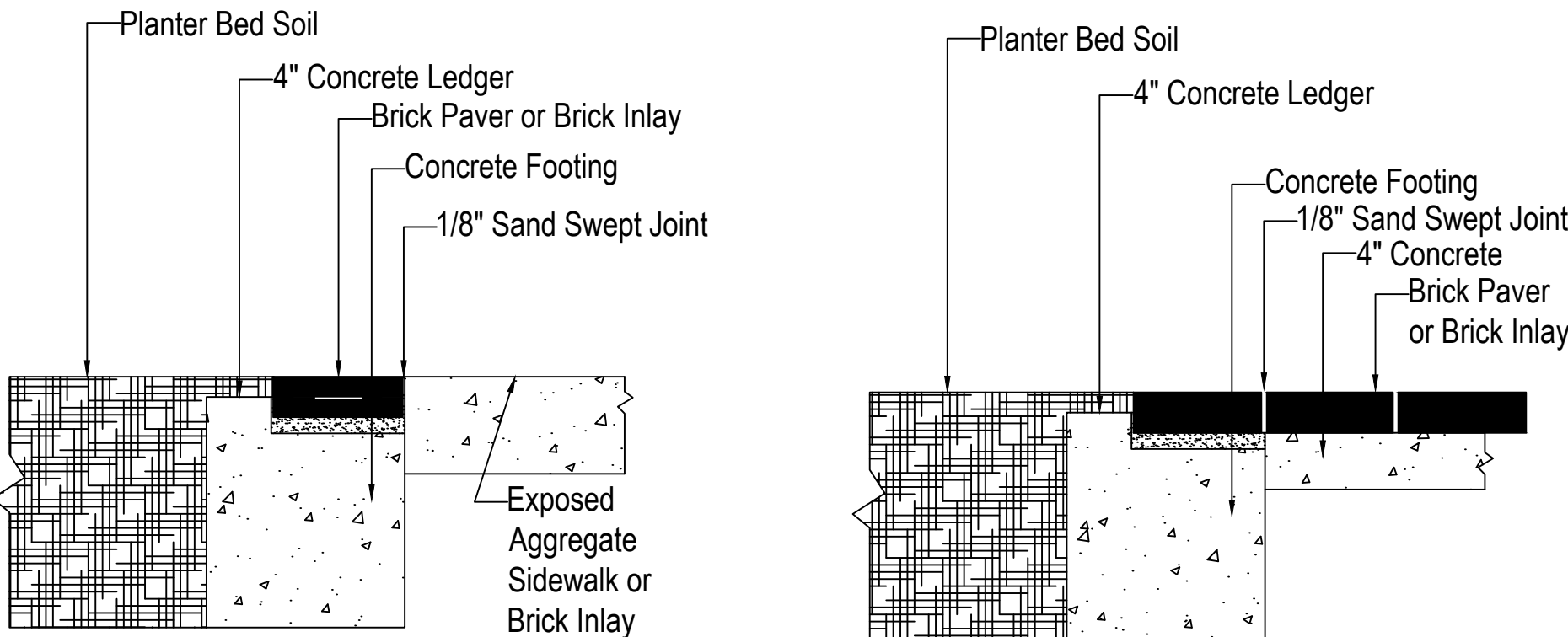
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TREE WELL AND GRATE



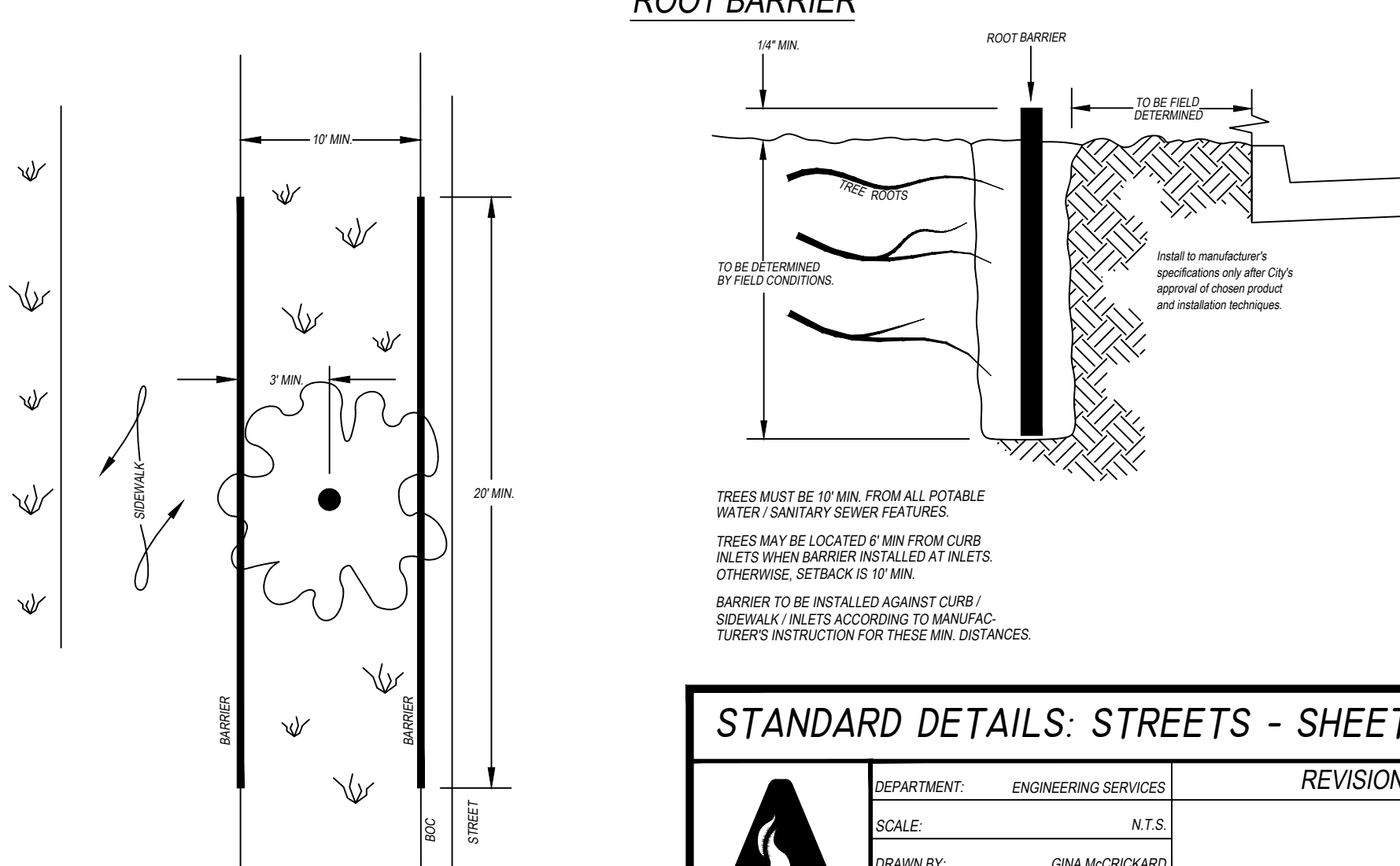
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TREE WELL AND GRATE



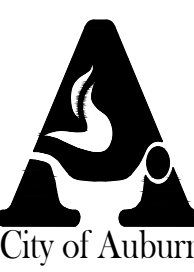
5.25

ROOT BARRIER



5.26

STANDARD DETAILS: STREETS - SHEET 3 OF 4

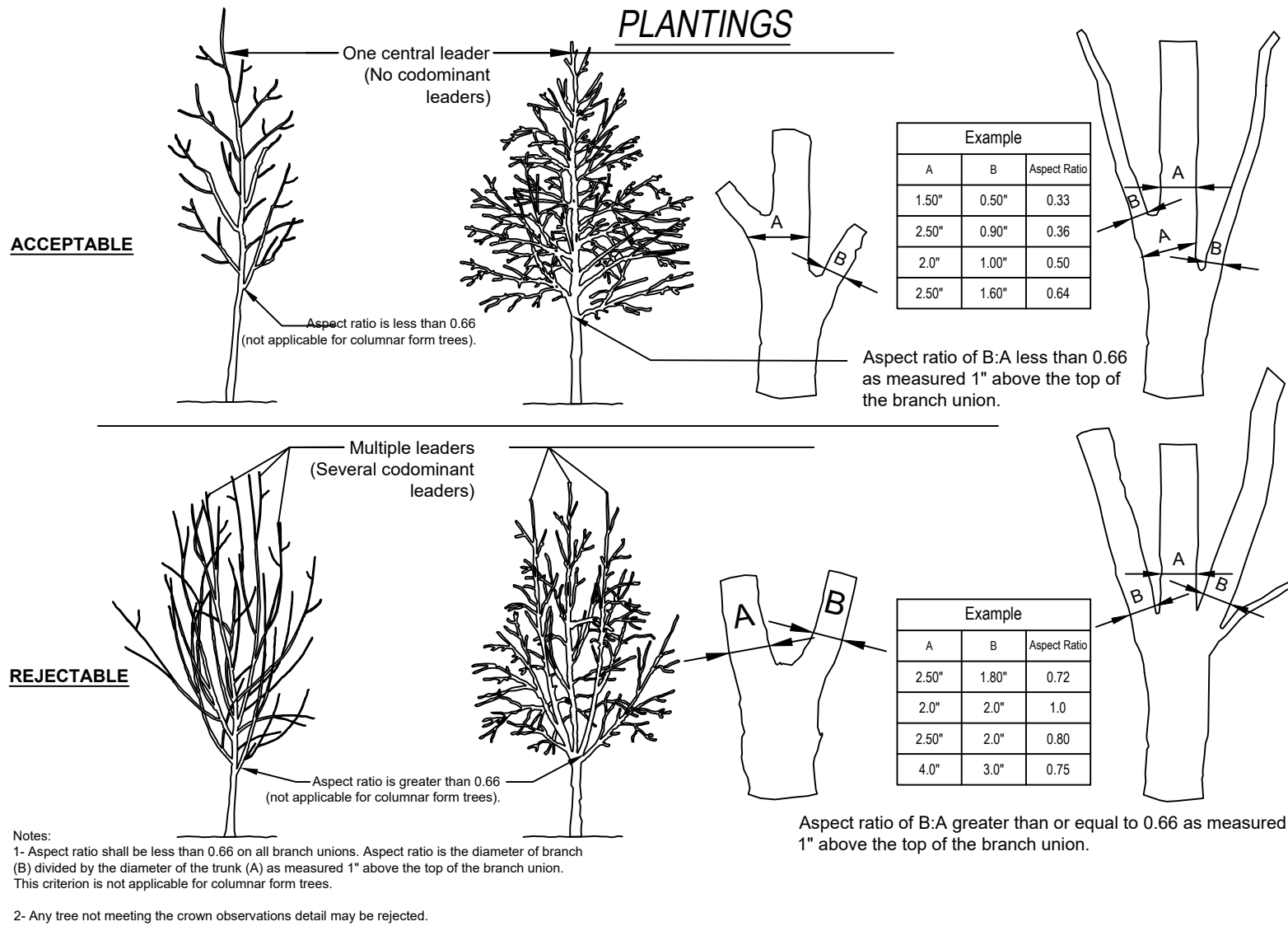


DEPARTMENT:	ENGINEERING SERVICES
SCALE:	N.T.S.
DRAWN BY:	GINA MACCRICKARD
CITY ENGINEER:	ALISON FRAZIER
APPROVED BY:	ALISON FRAZIER
IMPLEMENTED:	01-01-2022

REVISIONS:

EFFECTIVE DATE:

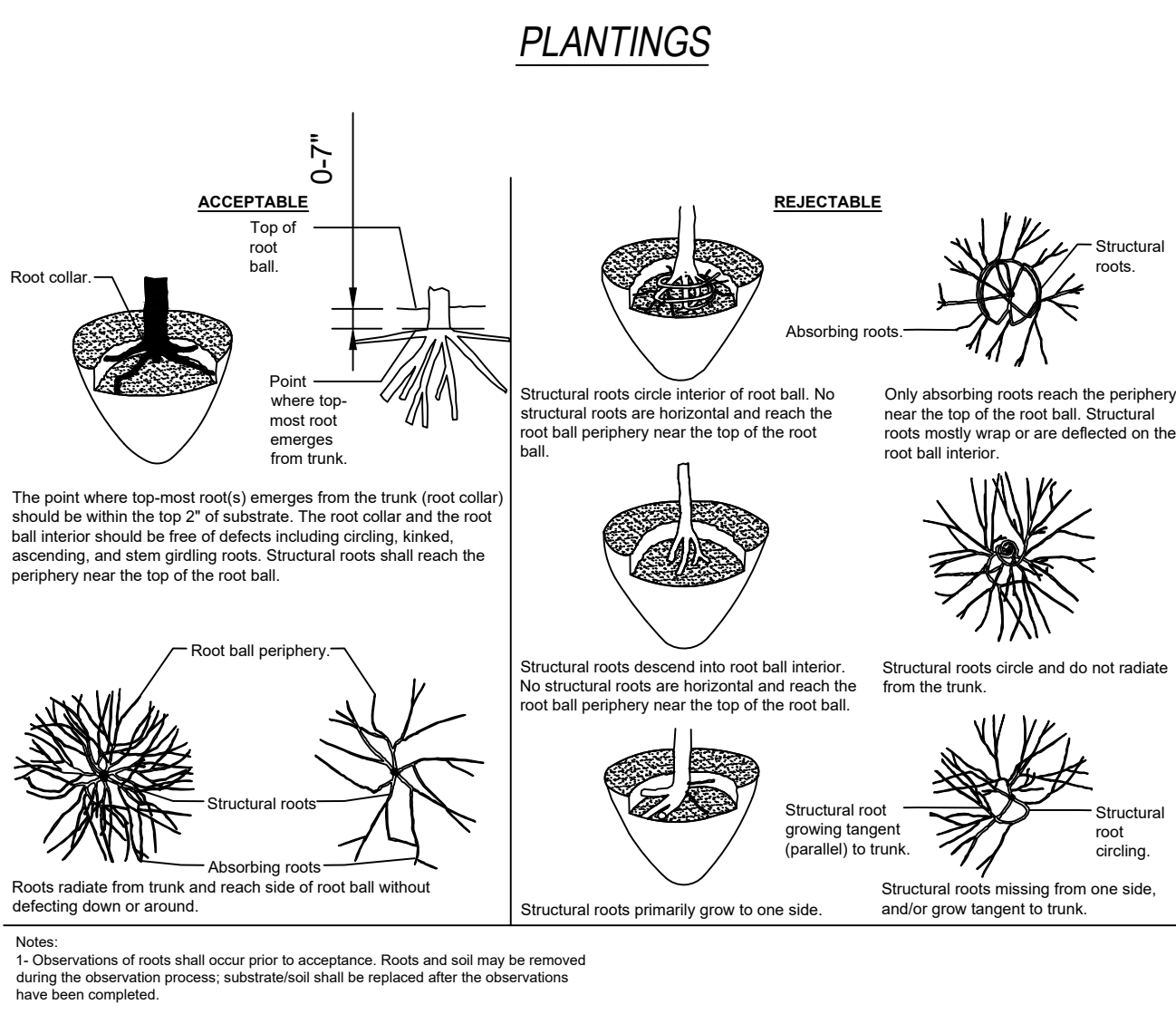
2024



TREE ACCEPTANCE CRITERIA

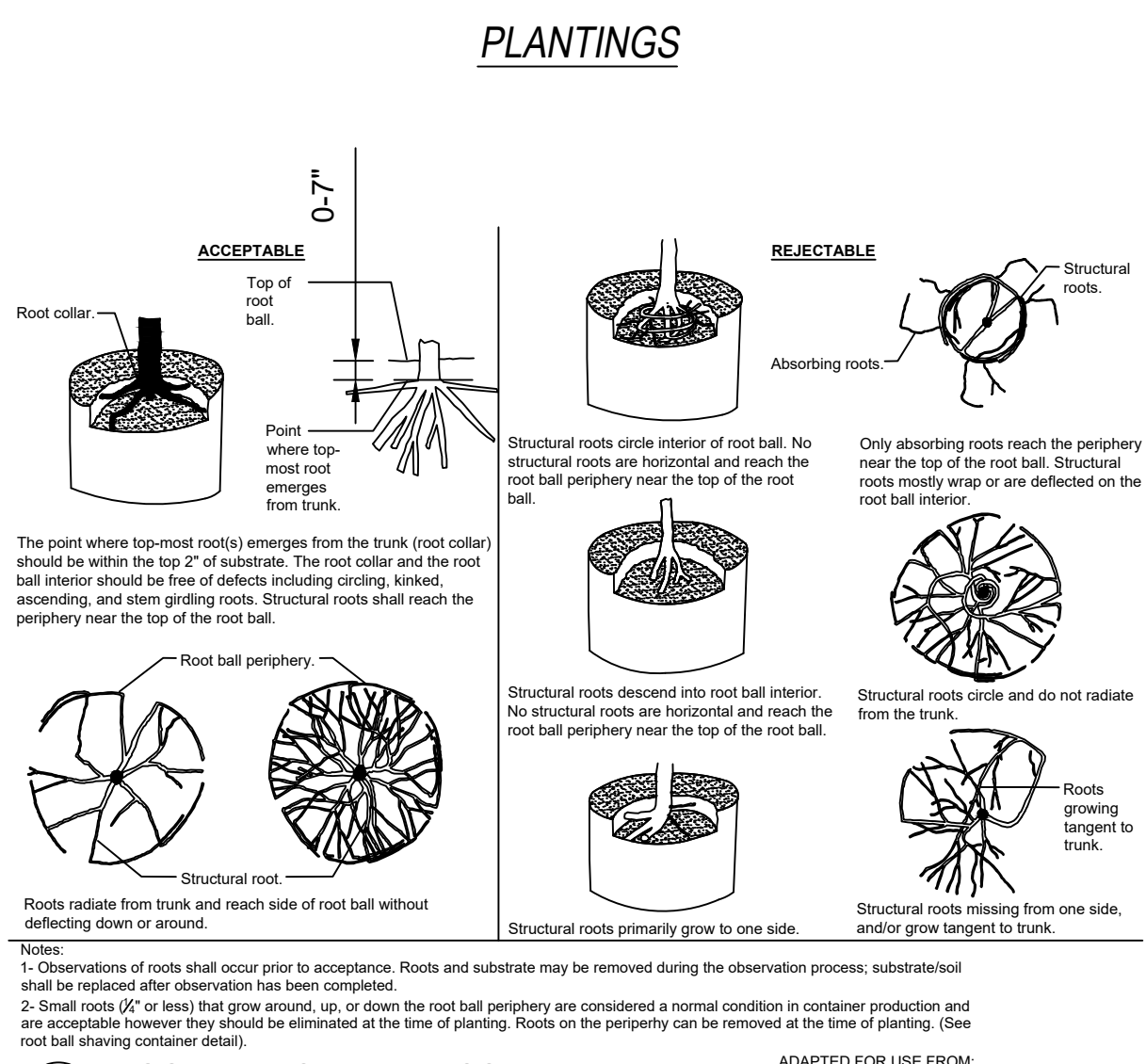
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5.27



ROOT BALL CRITERIA - BALLED AND BURLAPPED

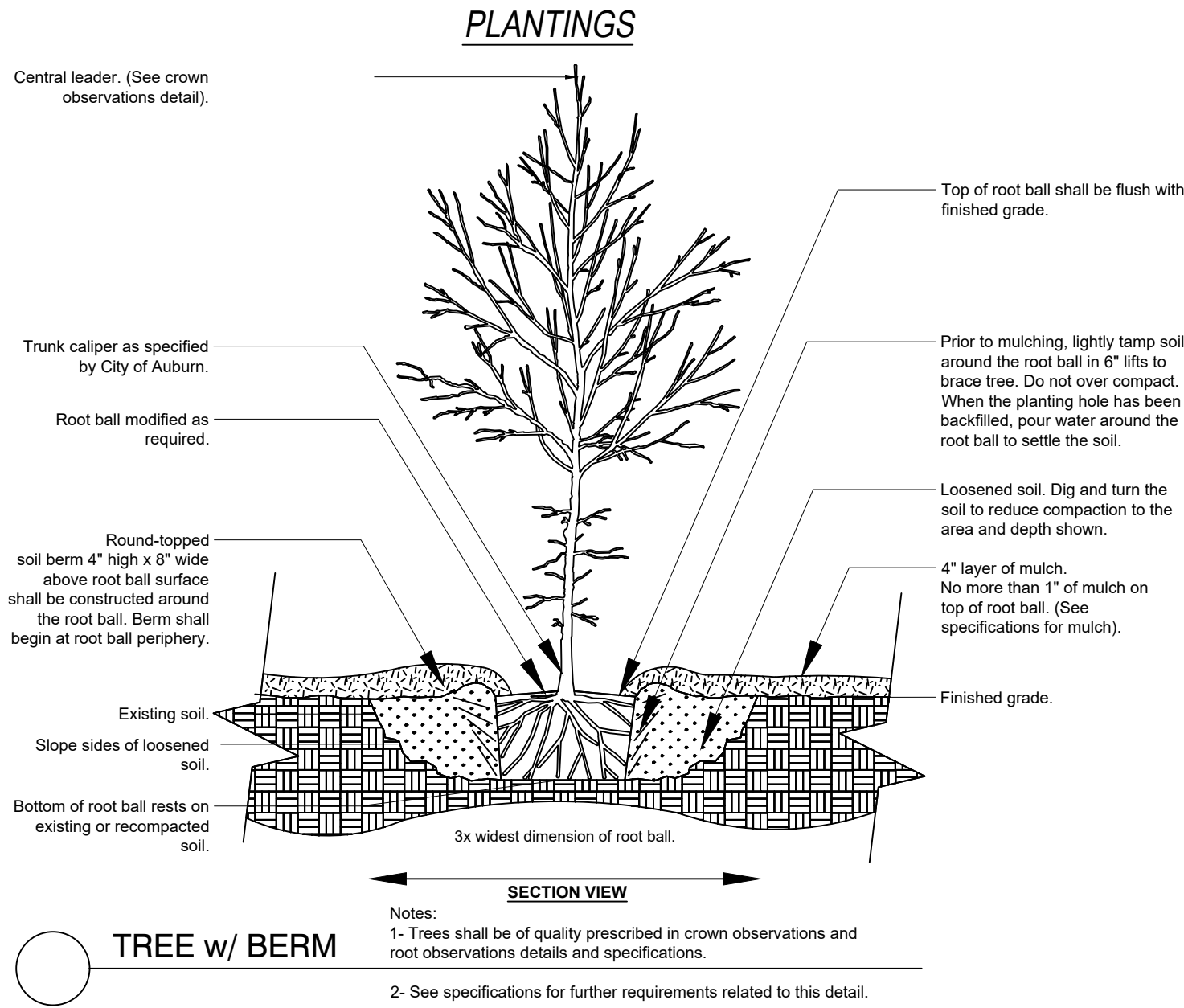
5.28



ROOT BALL CRITERIA - CONTAINERIZED

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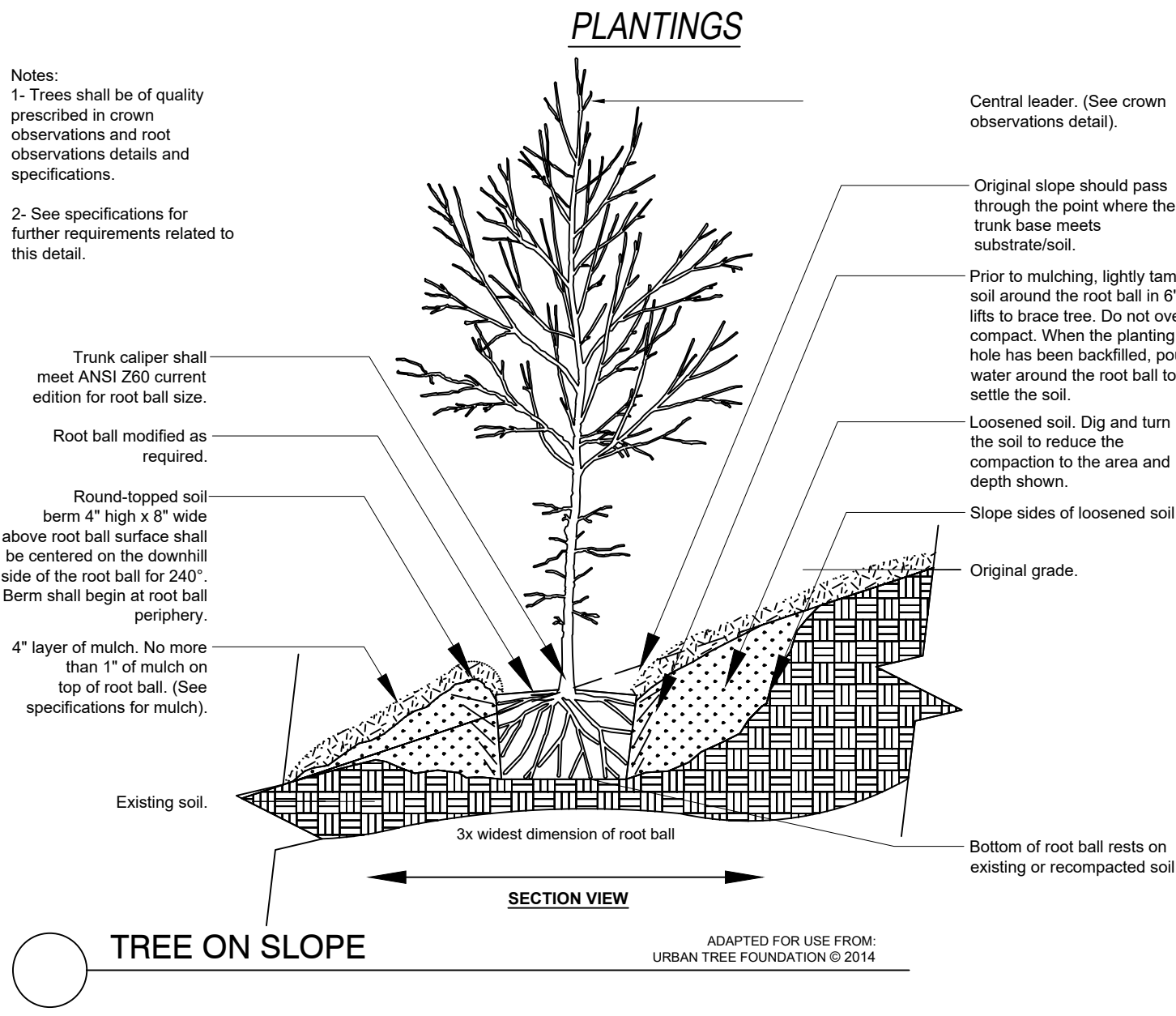
5.29



TREE w/ BERM

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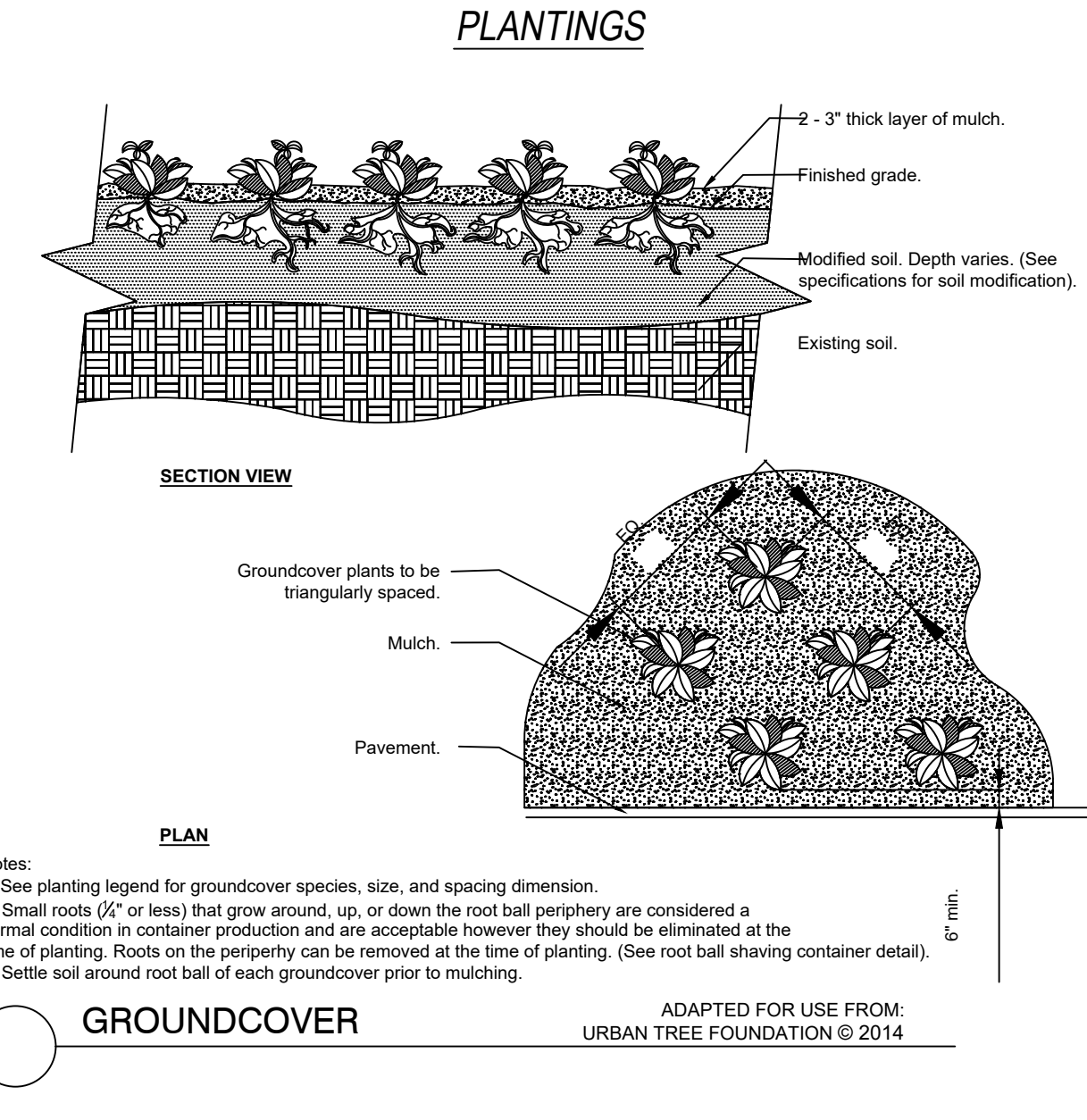
5.30



TREE ON SLOPE

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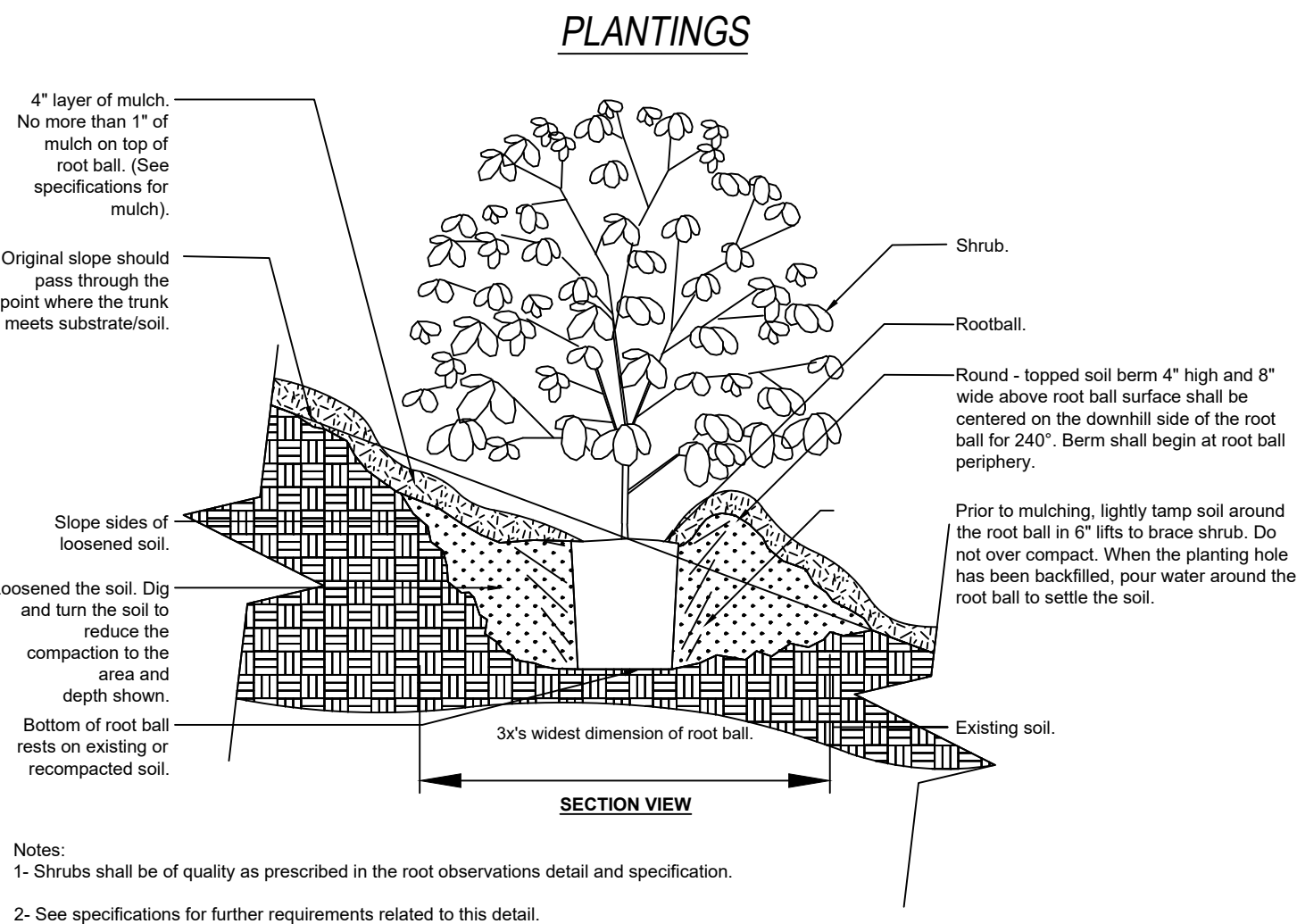
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GROUNDCOVER

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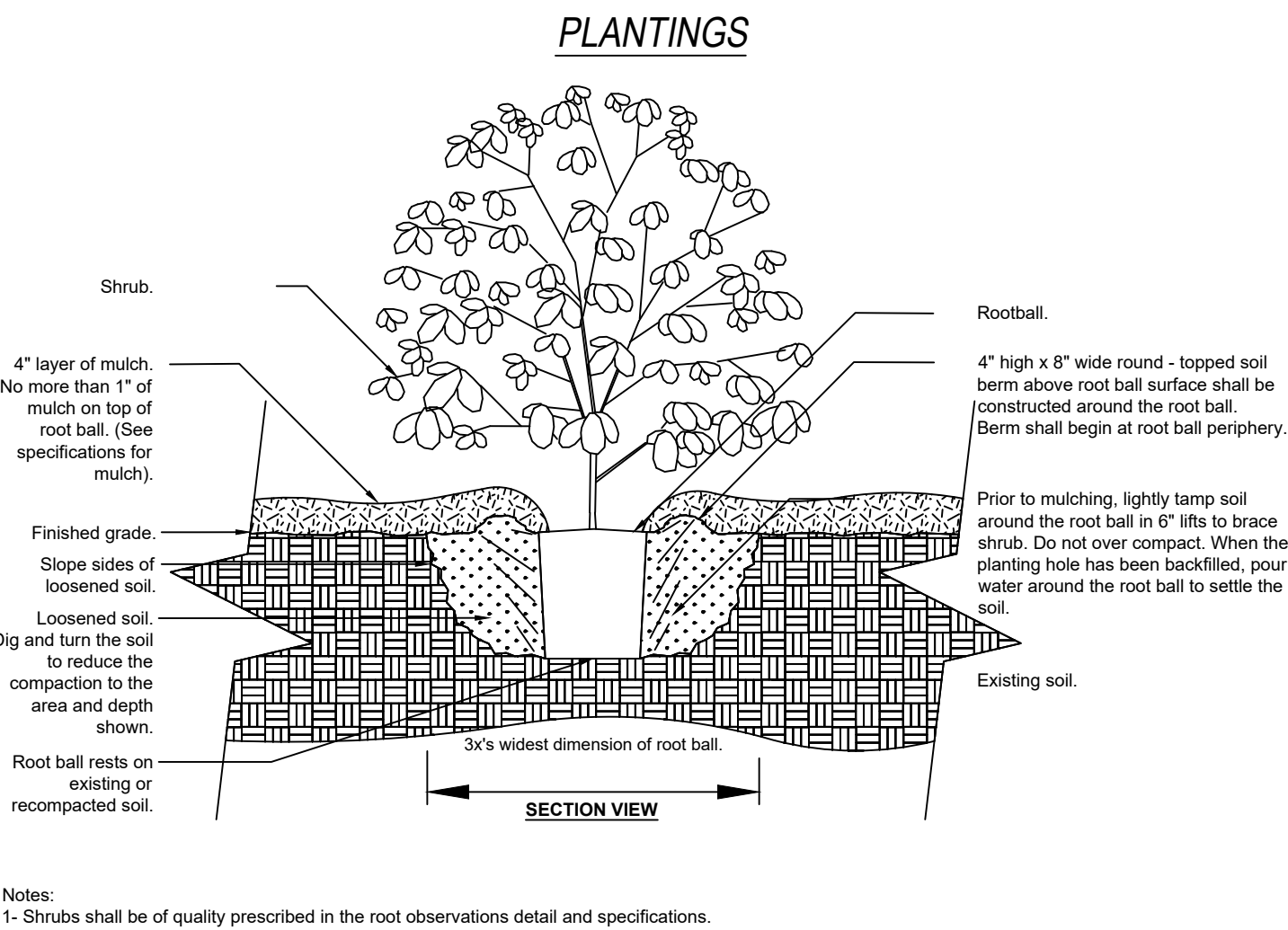
5.32



SHRUB PLANTING ON SLOPE

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5.33



SHRUB PLANTING

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5.34

Planting Guidelines

- If a contractor is performing tree planting, they shall notify the City of Auburn Urban Forestry Specialist 24 hours in advance of the planting of any tree within the City's Right of Way.
- All planting locations within the public right of way shall be checked for underground conflicts.
- Remove container or top third of burlap and all ropes, wires, etc. from root ball.
- Dig planting holes 2-3 times as wide as the container. The depth of the planting pit shall be equal to the size of the rootball. Place the tree in the planting pit so the trunk flare or the top of the root ball is at least one-half inch to 1 inch (1/2" to 1") above finish grade. In grass covered parkways the top of the rootball shall be higher than the surrounding soil by one-half inch to one inch (1/2" to 1").
- When obtaining a tree from a nursery, always carry the tree by its container or rootball, never by the trunk.
- After removing the tree from the container, cut circling roots and matted roots off the bottom. Check for any circling roots missed during initial inspection.
- Before placing the tree in the planting pit, examine the root ball for injured roots and the canopy for broken branches. Damaged roots shall be cleanly cut off at a point just in front of the break. Broken branches shall be cut out of the canopy making sure that the branch collar is not damaged.
- Backfill with soil removed from the planting hole, or as required for structural cells or structural soils. Only add fertilizer or compost if soil analysis indicates it is required. Build a temporary four to six inches (4" to 6") water retention berm around the root ball to allow for establishment watering. Immediately after planting the tree, water it thoroughly by filling the water retention basin twice.
- Eliminate all air pockets while backfilling the planting pit by watering the soil as it is put into the hole. Do not compact the backfill by tamping it down.
- All staking, wrapping, and other material should be removed from the tree trunk, root ball, and canopy at planting. No staking of trees shall be permitted unless approved by the City of Auburn Urban Forestry Specialist or a representative thereof. Approved staking must be removed after one year.
- Mulch with a two to four inch (2" to 4") layer to conserve soil moisture, provide protection from extreme temperatures and prevent damage from weed eaters. Mulch shall be kept three to four inches (3" to 4") away from the tree trunk and shall extend at minimum to the boundary of the water retention basin. It may extend further if desired.
- Install tree bags or donuts at planting to provide supplementary water during the first year. The soil around the new tree shall be kept moist, but not saturated, by watering at least once a week when adequate rainfall is not received.
- Substitution of plant species, sizes, or other specifications will not be allowed without prior approval of the City of Auburn Landscape and Sustainability Division Manager or a representative thereof.

Soil Requirements

The following options are suitable for planting trees in the City of Auburn Right of Way. These specifications apply to normal conditions. Alterations for utility conflicts, slopes, or drainage may be approved by the Urban Forestry Specialist a representative thereof. For the purpose of this document, understory trees are defined as less than 30' mature height, midstory trees are defined as 30' - 50' mature height, and overstory trees are defined as 50' or greater mature height.

Planting type	Understory	Midstory	Overstory	Soil depth	Soil requirements
Buffer strip	400	800	1000	36" minimum	May use soil removed from the planting hole amended as necessary amended as necessary according to soil test
Structural cells	400	800	1000	No minimum 10" - 43" depth available depending on product	Native topsoil amended as necessary according to soil test
Structural soil	1600	3200	4000	36" Minimum	Non-proprietary or patented products may be used according to system specification

5.35

Soil testing requirements

All soils must be submitted for testing to determine texture and pH and results provided at least four weeks prior to scheduled installation. Native topsoil must be classified as a sandy loam with a pH between 5 and 7. If tests fail to meet specifications, the Urban Forestry Specialist or representative thereof may require amendments before it is accepted. All soil testing will be at the expense of the contractor.

Structural cells

Structural cells may include Silva Cell by Deep Root Partners, StrattaCell by CityGreen, or approved equal. At least four weeks prior to installation, the contractor shall submit manufacturer's literature to the Urban Forestry Specialist. Installation of the structural cells shallfully comply with all requirements of the manufacturer and/or licensed supplier.

STANDARD DETAILS: STREETS - SHEET 4 of 4



DEPARTMENT:	ENGINEERING SERVICES	REVISIONS:	
SCALE:	N.T.S.		
DRAWN BY:	GINA MC CRICKARD		
CITY ENGINEER:	ALISON FRAZIER		
APPROV. BY:	ALISON FRAZIER		
IMPLEMENTED:	01-01-2022		

EFFECTIVE DATE:

2024