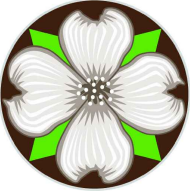



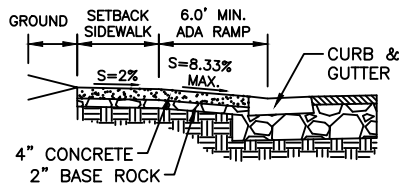
THE FOLLOWING LATEST VERSION OF THE OREGON STANDARD DRAWINGS PUBLISHED BY APWA/ODOT TO BE USED AS A CITY OF MILWAUKIE STANDARD WITH MILWAUKIE SPECIFIC REQUIREMENTS AS NOTED

OREGON STANDARD DRAWING NUMBER	OREGON STANDARD DRAWING NAME	MILWAUKIE EXCEPTION TO DRAWING
RD115	MONUMENT BOX	NO EXCEPTION TAKEN
RD700	CURBS	NO EXCEPTION TAKEN
RD705	ISLAND	NO EXCEPTION TAKEN
RD715	APPROACHES AND NON-SIDEWALK DRIVEWAYS	TWO FOOT (2') ASPHALT REPAIR REQUIRED IN FRONT OF NEW CURB FOR DRIVEWAYS
RD720	CURB LINE SIDEWALKS	NO EXCEPTION TAKEN
RD721	SEPARATED SIDEWALKS	NO EXCEPTION TAKEN
RD740	SEPARATED SIDEWALK DRIVEWAYS OR ALLEYS (OPTIONS H, I & J) LOCAL JUR.	OPTIONS I & J ONLY. ATWO FOOT (2') ASPHALT REPAIR REQUIRED IN FRONT OF NEW CURB FOR DRIVEWAYS
RD745	CURB LINE SIDEWALK DRIVEWAYS OR ALLEYS (OPTIONS K & L) LOCAL JUR.	TWO FOOT (2') ASPHALT REPAIR REQUIRED IN FRONT OF NEW CURB FOR DRIVEWAYS
RD750	CURB LINE SIDEWALK DRIVEWAYS OR ALLEYS (OPTIONS M & N) LOCAL JUR.	TWO FOOT (2') ASPHALT REPAIR REQUIRED IN FRONT OF NEW CURB FOR DRIVEWAYS
RD902	DETECTABLE WARNING SURFACE DETAILS	NO EXCEPTION TAKEN
RD904	DETECTABLE WARNING SURFACE PLACEMENT FOR CURB RAMPS	NO EXCEPTION TAKEN
RD905	DETECTABLE WARNING SURFACE PLACEMENT FOR DIRECTIONAL CURBS	NO EXCEPTION TAKEN
RD906	DETECTABLE WARNING SURFACE PLACEMENT FOR ACCESSIBLE ROUTE ISLAND	NO EXCEPTION TAKEN
RD908	DETECTABLE WARNING SURFACE PLACEMENT FOR RAIL	NO EXCEPTION TAKEN
RD910 & RD912	PERPENDICULAR CURB RAMP	NO EXCEPTION TAKEN
RD913	PERPENDICULAR CURB RAMP WITH CLOSURE	NO EXCEPTION TAKEN
RD916	PERPENDICULAR CURB RAMP SINGLE RAMP	NO EXCEPTION TAKEN
RD920	PARALLEL CURB RAMP	NO EXCEPTION TAKEN
RD922	PARALLEL CURB RAMP SINGLE RAMP	NO EXCEPTION TAKEN
RD930 & RD932	COMBINATION CURB RAMP	NO EXCEPTION TAKEN
RD938	COMBINATION CURB RAMP SINGLE RAMP	NO EXCEPTION TAKEN
RD940	BLENDED TRANSITION CURB RAMP SINGLE RAMP	NO EXCEPTION TAKEN
RD950 & RD952	END OF WALK CURB RAMP	NO EXCEPTION TAKEN
RD960	UNIQUE CURB RAMP	NO EXCEPTION TAKEN
TM500, TM501, TM502, TM503 & TM504	PAVEMENT MARKING STANDARD DETAIL BLOCKS	NO EXCEPTION TAKEN
TM505	RAIL CROSSING PAVEMENT MARKINGS	NO EXCEPTION TAKEN
TM530	INTERSECTION PAVEMENT MARKINGS (CROSSWALK, STOP BAR & BIKE LANE STENCIL)	NO EXCEPTION TAKEN
TM531	TURN ARROW MARKING DETAILS	NO EXCEPTION TAKEN
TM561	ALIGNMENT LAYOUT: LEFT TURN LANE, CENTERLINE & MEDIANS	NO EXCEPTION TAKEN
TM681	PERFORATED STEEL SQUARE TUBE (PSST) SIGN SUPPORT INSTALLATION	NO EXCEPTION TAKEN
TM687	PERFORATED STEEL SQUARE TUBE (PSST) ANCHOR FOUNDATION	NO EXCEPTION TAKEN

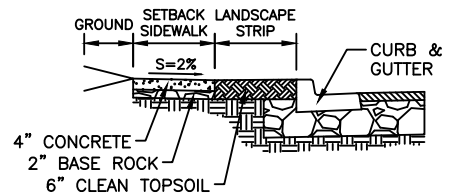
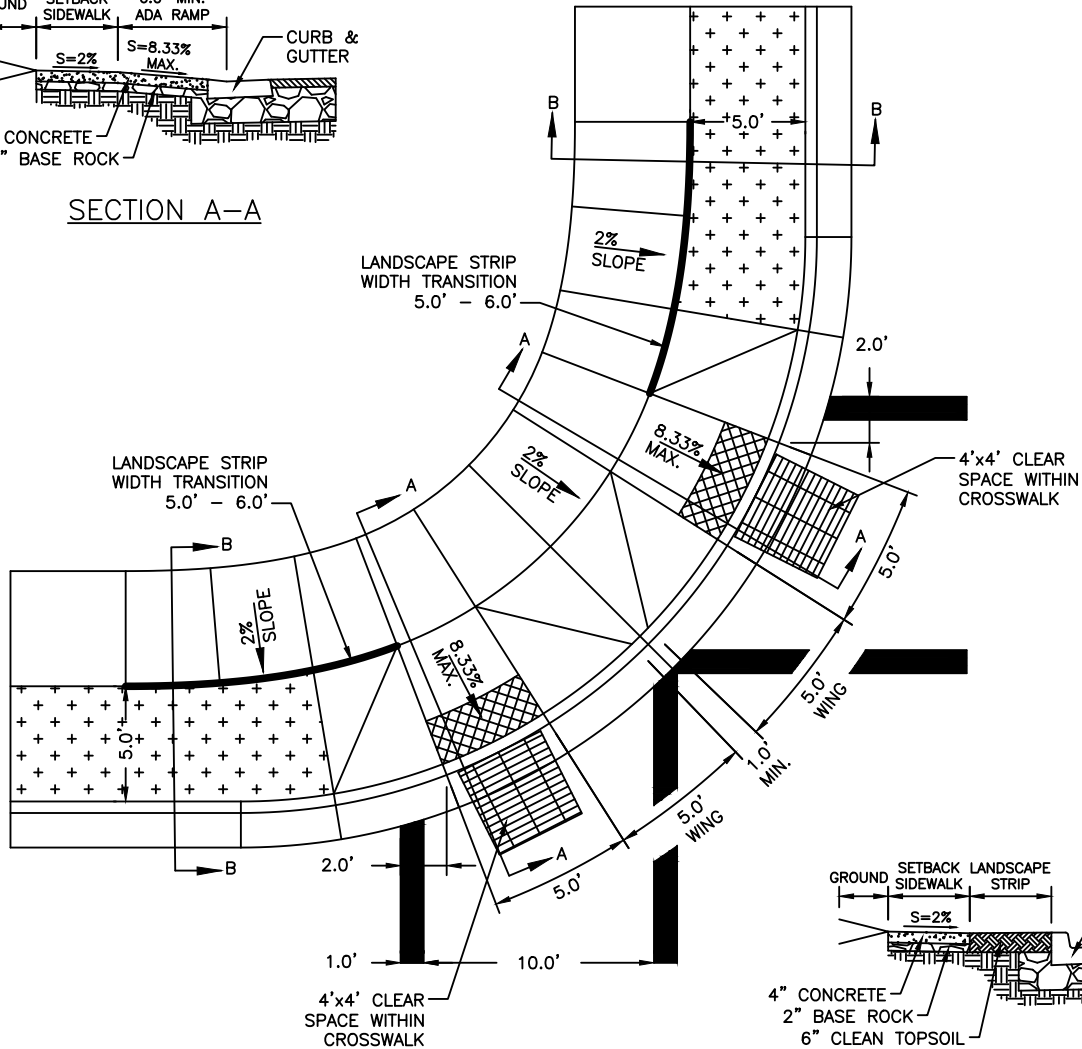
NOTES:

- STANDARD DRAWING PUBLISHED BY APWA/ODOT NOT LISTED MUST NOT BE USED WITHOUT PRIOR APPROVAL BY THE PUBLIC WORKS DEPARTMENT

	CITY OF MILWAUKIE, OREGON – PUBLIC WORKS DEPT.				DRAWING NO. 500		
	ACCEPTABLE OREGON STANDARD DRAWINGS, STREETS						
	APPROVED	 03/2024	NO.	REVISIONS		DATE	BY
	CITY ENGINEER	DATE	4	LIST UPDATED		10/23	HGB



SECTION A-A



SECTION B-B

NOTES

1. SIDEWALK RAMPS MUST MEET ADA STANDARDS.
2. ALL SURFACES TO BE LIGHTLY BROOMED. ALL EDGES TO BE TOOL ROUNDED AND SHINED 3" AFTER BROOMING.
3. SAW CUT EXISTING RAMP, CURB, AND SIDEWALK THAT ARE TO BE REMOVED TO THE NEAREST JOINT.
4. CONCRETE MUST BE 3300 PSI AT 28 DAYS WITH A SLUMP RANGE OF 2" TO 4".
5. SIDEWALK PANELS SHOULD BE SQUARE (4'x4', 5'x5', 6'x6'). IN NO CASE WILL THE LENGTH OF A SIDEWALK PANEL BE GREATER THAN 1.5 TIMES THE WIDTH AND VICE VERSA.
6. BASE ROCK TO BE 3/4"-0 OR 1"-0 CRUSHED AGGREGATE ROCK COMPACTED TO 95% MAXIMUM DENSITY OF AASHTO T-180.
7. CURB JOINT FOR CURB TIGHT SIDEWALK TO BE A TROWLED JOINT WITH A 1/2" RADIUS ALONG THE BACK OF CURB.
8. LANDINGS MUST BE PLACED AT THE TOP OF EACH RAMP. LANDING SLOPES NOT TO EXCEED 20:1 IN ANY DIRECTION AND WILL HAVE MINIMUM DIMENSIONS OF 5' X 5'.
9. DETECTABLE WARNING PAD TO BE 24" LONG IN THE DIRECTION OF TRAVEL AND INSTALLED ALONG THE FULL WIDTH OF THE BOTTOM OF THE SIDEWALK RAMP. ADA SOLUTIONS ADA CAST-IN-PLACE REPLACEABLE TACTILE UNITS OR APPROVED EQUAL.
10. SETBACK SIDEWALK RAMPS: THE MAXIMUM SLOPE MUST FIRST BE PROVIDED IN THE RAMP ADJACENT TO THE STREET. ANY ADDITIONAL ELEVATION GAIN TO BE PROVIDED IN THE SIDEWALK RAMP SLOPES.
11. PLACE AN INLET AT UPSTREAM SIDE OF CURB RAMP OR PERFORM OTHER APPROVED STORMWATER MITIGATION.



CITY OF MILWAUKIE, OREGON – PUBLIC WORKS DEPT.

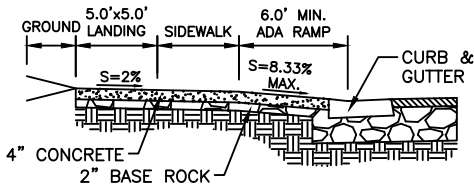
Setback Sidewalk Intersection Ramps

DRAWING NO.

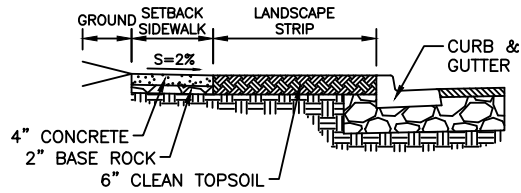
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APPROVED *Janife Jankely* 03/2024
CITY ENGINEER DATE

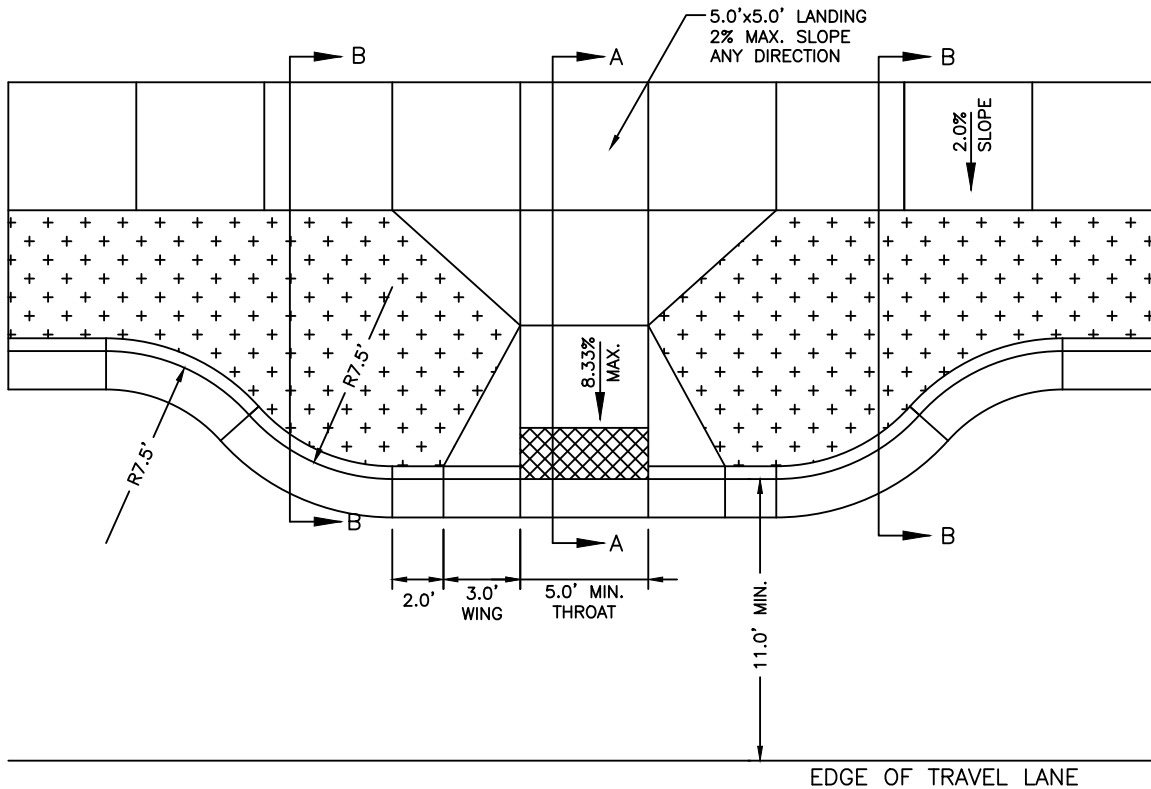
NO.	REVISIONS	DATE	BY
4	NOTES CHANGED	08/19	TAP
5	NOTES CHANGED	01/21	TAP
6	NOTES CHANGED	10/23	HGB



SECTION A-A



SECTION B-B



EDGE OF TRAVEL LANE

NOTES

1. SIDEWALK RAMPS MUST MEET ADA STANDARDS.
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7. CURB JOINT FOR CURB TIGHT SIDEWALK TO BE A TROWLED JOINT WITH A 1/2" RADIUS ALONG THE BACK OF CURB.
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9. DETECTABLE WARNING PAD TO BE 24" LONG IN THE DIRECTION OF TRAVEL AND INSTALLED ALONG THE FULL WIDTH OF THE BOTTOM OF THE SIDEWALK RAMP. ADA SOLUTIONS ADA CAST-IN-PLACE REPLACEABLE TACTILE UNITS OR APPROVED EQUAL.
10. SETBACK SIDEWALK RAMPS: THE MAXIMUM SLOPE MUST FIRST BE PROVIDED IN THE RAMP ADJACENT TO THE STREET. ANY ADDITIONAL ELEVATION GAIN TO BE PROVIDED IN THE SIDEWALK RAMP SLOPES.
11. PLACE AN INLET AT UPSTREAM OF CURB RAMP OR PERFORM OTHER APPROVED STORMWATER MITIGATION.



CITY OF MILWAUKIE, OREGON – PUBLIC WORKS DEPT.

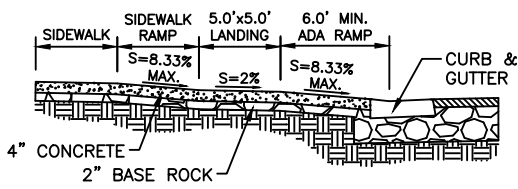
Mid-Block Curb Extension

DRAWING NO.

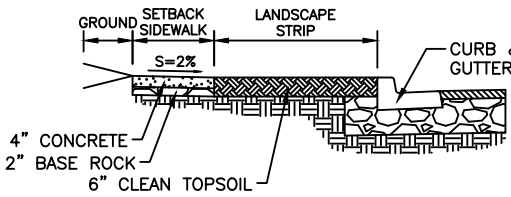
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APPROVED *Jennifer Jarbel* 03/2024
CITY ENGINEER DATE

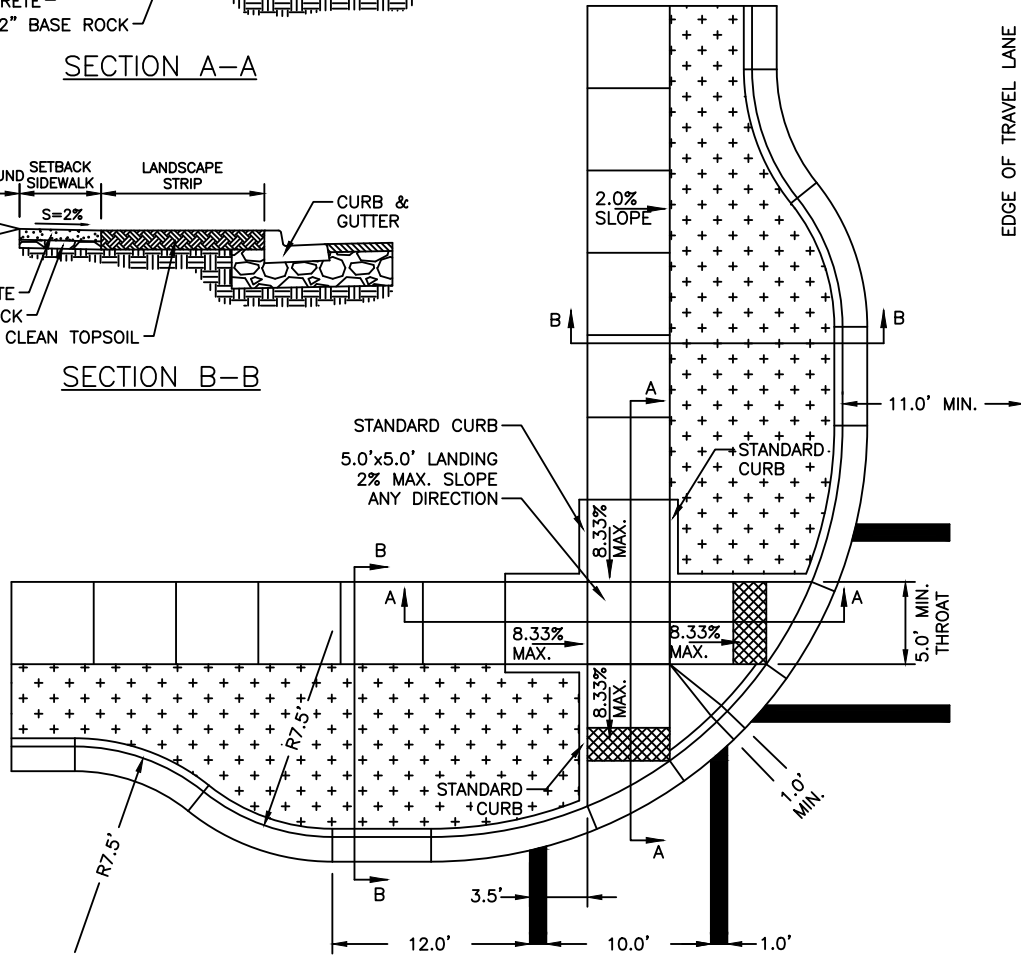
NO.	REVISIONS	DATE	BY
4	NOTES CHANGED	08/19	TAP
5	NOTES CHANGED	01/21	TAP
6	NOTES CHANGED	10/23	HGB



SECTION A-A



SECTION B-B



NOTES

1. SIDEWALK RAMPS MUST MEET ADA STANDARDS.
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CITY OF MILWAUKIE, OREGON – PUBLIC WORKS DEPT.

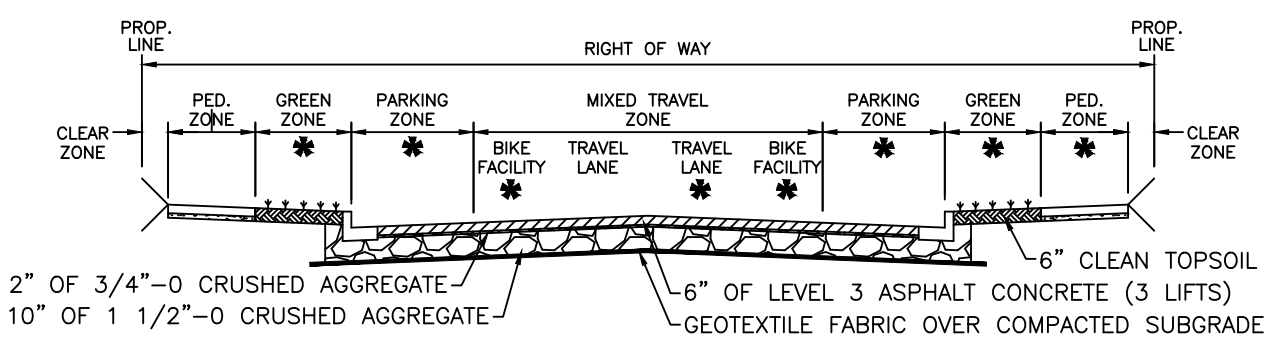
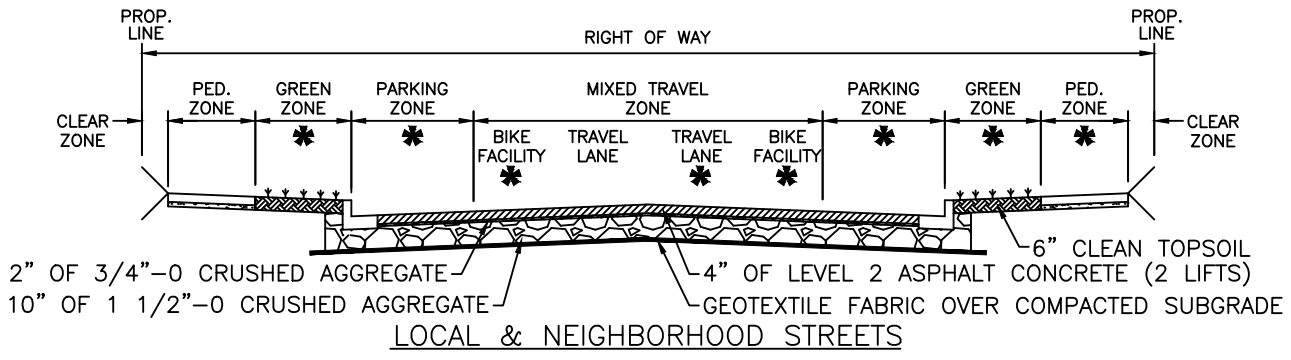
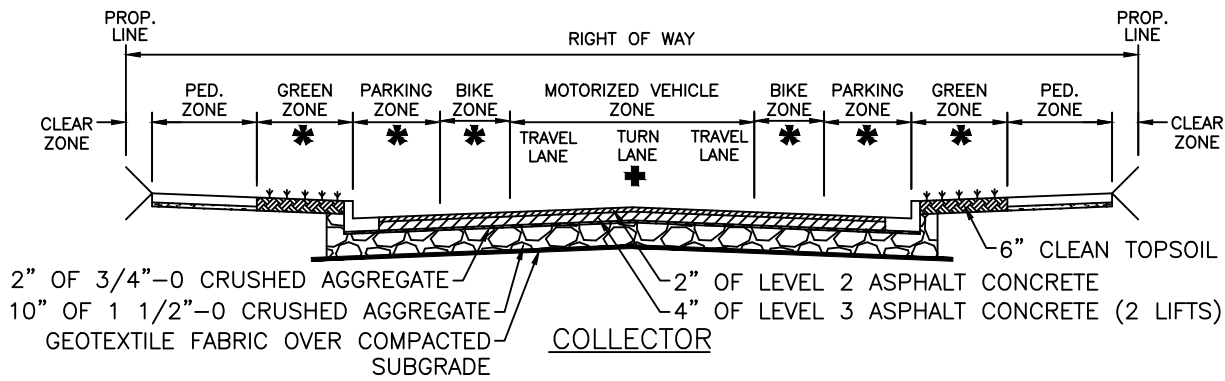
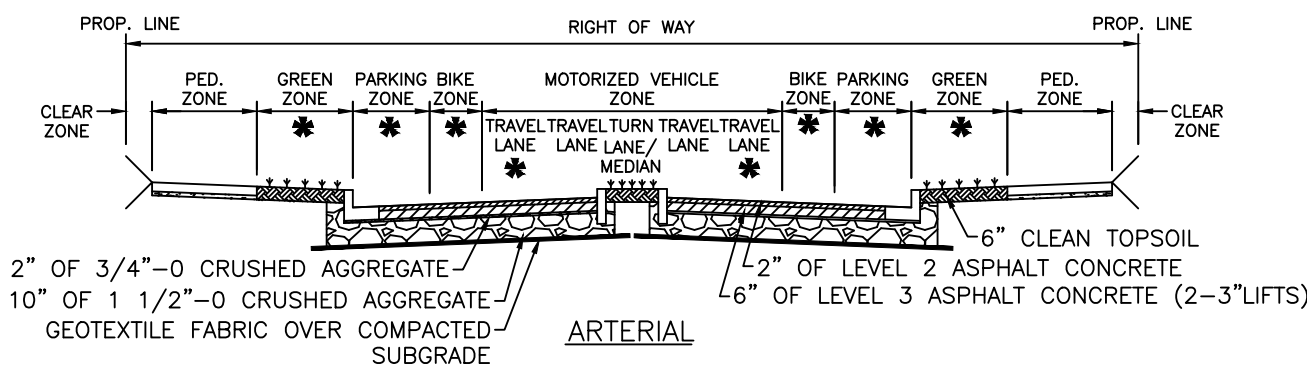
Intersection Curb Extension

DRAWING NO.

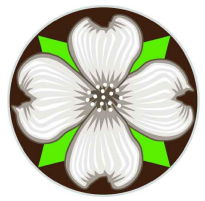
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APPROVED *Janice J. Jankel* 03/2024
CITY ENGINEER DATE

NO.	REVISIONS	DATE	BY
4	NOTES CHANGED	08/19	TAP
5	NOTES CHANGED	01/21	TAP
6	NOTES CHANGED	10/23	HGB



✱ CONSTRAINED RIGHT-OF-WAY **LOCAL COMMERCIAL/INDUSTRIAL**
 OPTIONAL ELEMENT
 ✚ WHERE WARRANTED



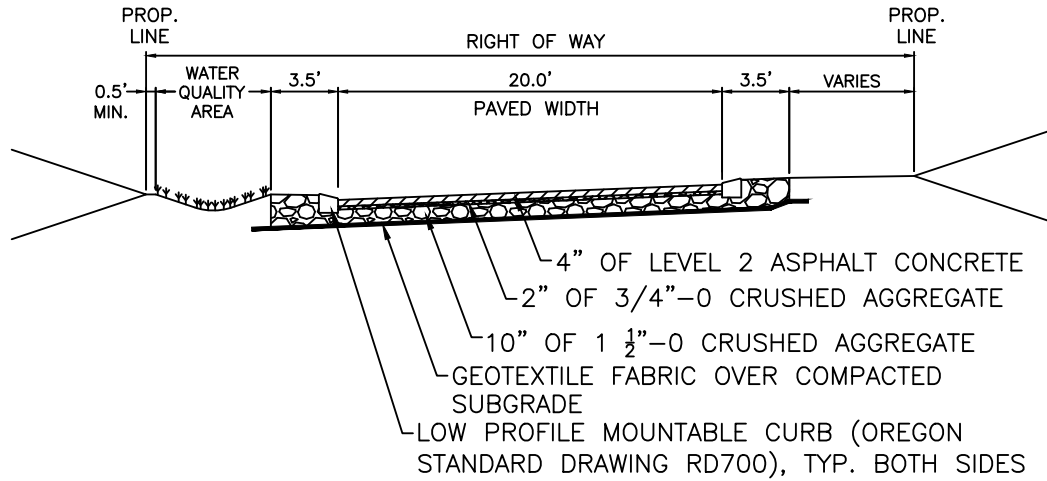
CITY OF MILWAUKIE, OREGON – PUBLIC WORKS DEPT.

Street Cross Sections

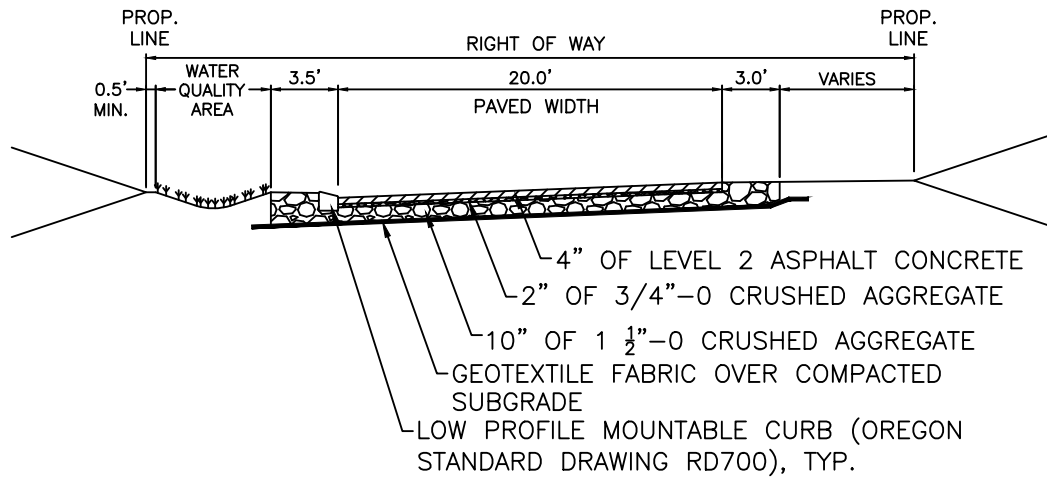
DRAWING NO.

504

APPROVED	<i>Janice Jankel</i>	NO.	REVISIONS	DATE	BY
		3	DRAWING NUMBER CHANGED	11/18	TAP
		4	ASPHALT AND BASE REVISED	08/19	TAP
CITY ENGINEER	DATE	5	ARTERIAL AND COLLECTOR ASPHALT REVISED	01/21	TAP



LOW VOLUME STREET – TWO CURB



LOW VOLUME STREET – SINGLE CURB



CITY OF MILWAUKIE, OREGON – PUBLIC WORKS DEPT.

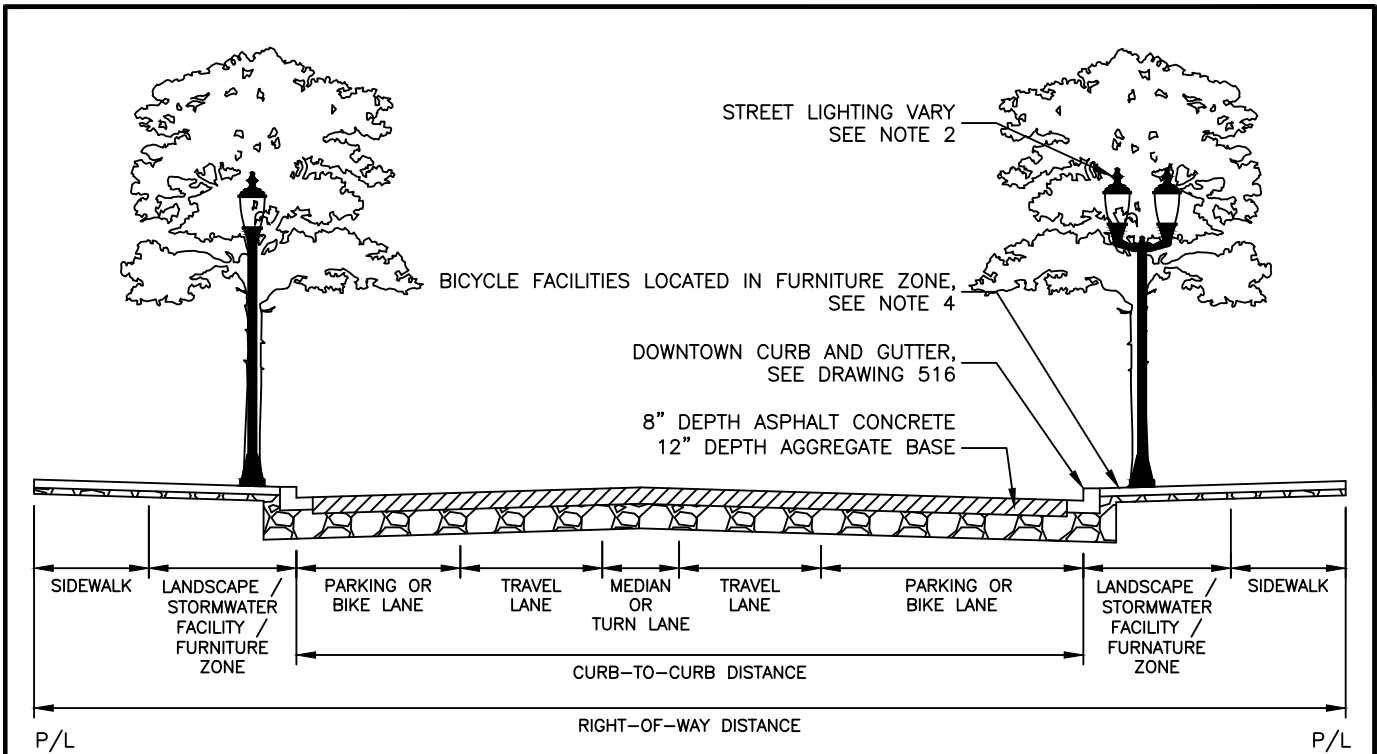
Low Volume Street Cross Sections

DRAWING NO.

505

APPROVED *Jennifer Darbelly* 03/2024
 CITY ENGINEER DATE

NO.	REVISIONS	DATE	BY
3	ASPHALT AND BASE REVISED	08/19	TAP
4	GEOTEXTILE NOTE ADDED	01/21	TAP
5	NOTE CHANGE	10/23	HGB



P/L

P/L

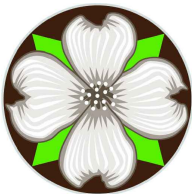
DOWNTOWN STREET SECTIONS

STREET NAME	RIGHT-OF-WAY	CURB-TO-CURB	SIDEWALK	LANDSCAPE	PARKING*	BIKE LANE	TRAVEL LANE	MEDIAN OR TURN LANE
McLOUGHLIN BLVD.	100'	74'	6'	6' TO 8'	0	6'	12' (4 TOTAL)	14' LANE
MAIN STREET	60' TO 80'	22' TO 54'	12' TO 16'	0 TO 7'	0 TO 7'	0	11' TO 14'	NONE
21ST AVENUE	60'	27' TO 36'	10' TO 17'	0 TO 6'	0 TO 7'	0	11' TO 14'	0 TO 1' MEDIAN
HARRISON STREET	60' TO 68'	40' TO 48'	10'	0 TO 5'	0 TO 8'	4.5' TO 5'	11' TO 13.5'	NONE
JACKSON STREET	80'	52' TO 56'	10' TO 18'	0 TO 5'	0 TO 16'	0	12' TO 17'	NONE
MONROE STREET	40' TO 70'	28' TO 48'	8' TO 12'	0 TO 7'	0 TO 19'	0	11' TO 14'	0 TO 12' LANE
JEFFERSON STREET	70'	46'	12'	0 TO 5'	7' TO 16'	0	11' TO 12'	NONE
WASHINGTON ST.	60'	36' TO 40'	10' TO 12'	0 TO 5'	0 TO 7'	0	11'	0 TO 11' LANE
ADAMS STREET	50'	30'	8'	0	7'	0	11' TO 12'	NONE
OCHOCO STREET	45' TO 54'	24' TO 36'	5'	4' TO 5.5'	0	0	12'	12' LANE
MAILWELL DRIVE	60'	32'	6' TO 14'	0 TO 6'	0 TO 8'	0	12'	NONE
STUBB STREET	55'	32'	5' TO 8'	0 TO 8'	0 TO 8'	0	12'	NONE

*PARKING WIDTH OVER 10' IS ANGLED PARKING

CONSTRUCTION NOTES

1. UNDERGROUND ALL UTILITIES.
2. FOR STREET LIGHTING SEE SECTION 5.0091 AND 5.019 (D) OF THE MILWAUKIE PUBLIC WORK STANDARDS.
3. FOR STREET FURNITURE ELEMENTS, SEE SECTION 5.0191 (E) OF THE MILWAUKIE PUBLIC WORK STANDARDS.
4. FOR BICYCLE FACILITIES DETAILS SEE SECTION 5.0191 (F) OF THE MILWAUKIE PUBLIC WORK STANDARDS.
5. FOR STREET PLANTING, SEE SECTION 5.0093 AND 5.0191 (C) OF THE MILWAUKIE PUBLIC WORK STANDARDS.



CITY OF MILWAUKIE, OREGON – PUBLIC WORKS DEPT.

Downtown Street Cross Sections

DRAWING NO.

506A

APPROVED

Janice Jankel

03/2024

CITY ENGINEER

DATE

NO.

REVISIONS

DATE

BY

1 NEW DRAWING

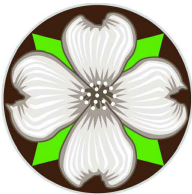
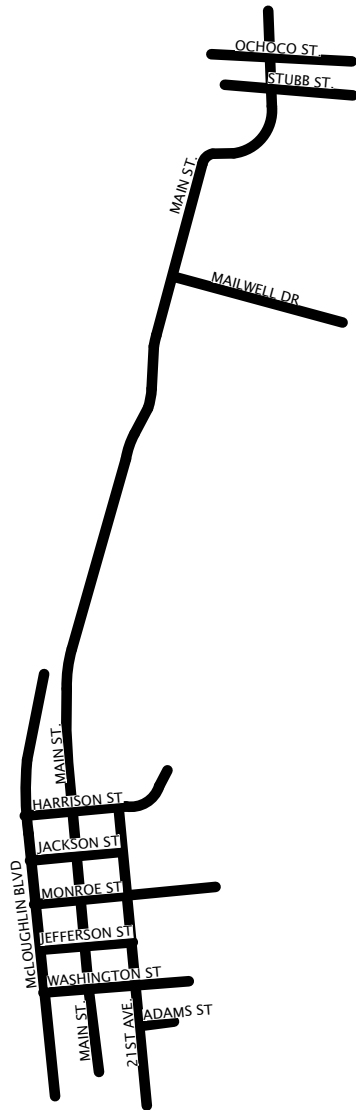
08/19

TAP

2 NOTE CHANGED

10/23

HGB



CITY OF MILWAUKIE, OREGON – PUBLIC WORKS DEPT.

Downtown Street Cross Sections

DRAWING NO.

506B

APPROVED	<i>Jennifer Darby</i>	03/2024	NO.	REVISIONS	DATE	BY
			1	NEW DRAWING	08/19	TAP
CITY ENGINEER		DATE				

RIGHT-OF-WAY
BACK OF SIDEWALK

CURB AND GUTTER

PLANTER STRIP

28' MIN. RADIUS
(TYPICAL)

48' RAD

54' RAD

60' RAD

32'

56'
RIGHT-OF-WAY

6'

6'



CITY OF MILWAUKIE, OREGON – PUBLIC WORKS DEPT.

Cul-De-Sac

DRAWING NO.

507

APPROVED

Janice Tarkenton

03/2024

CITY ENGINEER

DATE

NO.

REVISIONS

DATE

BY

2

DRAWING NUMBER CHANGED

11/18

TAP

3

DRAWING NUMBER CHANGED

08/19

TAP

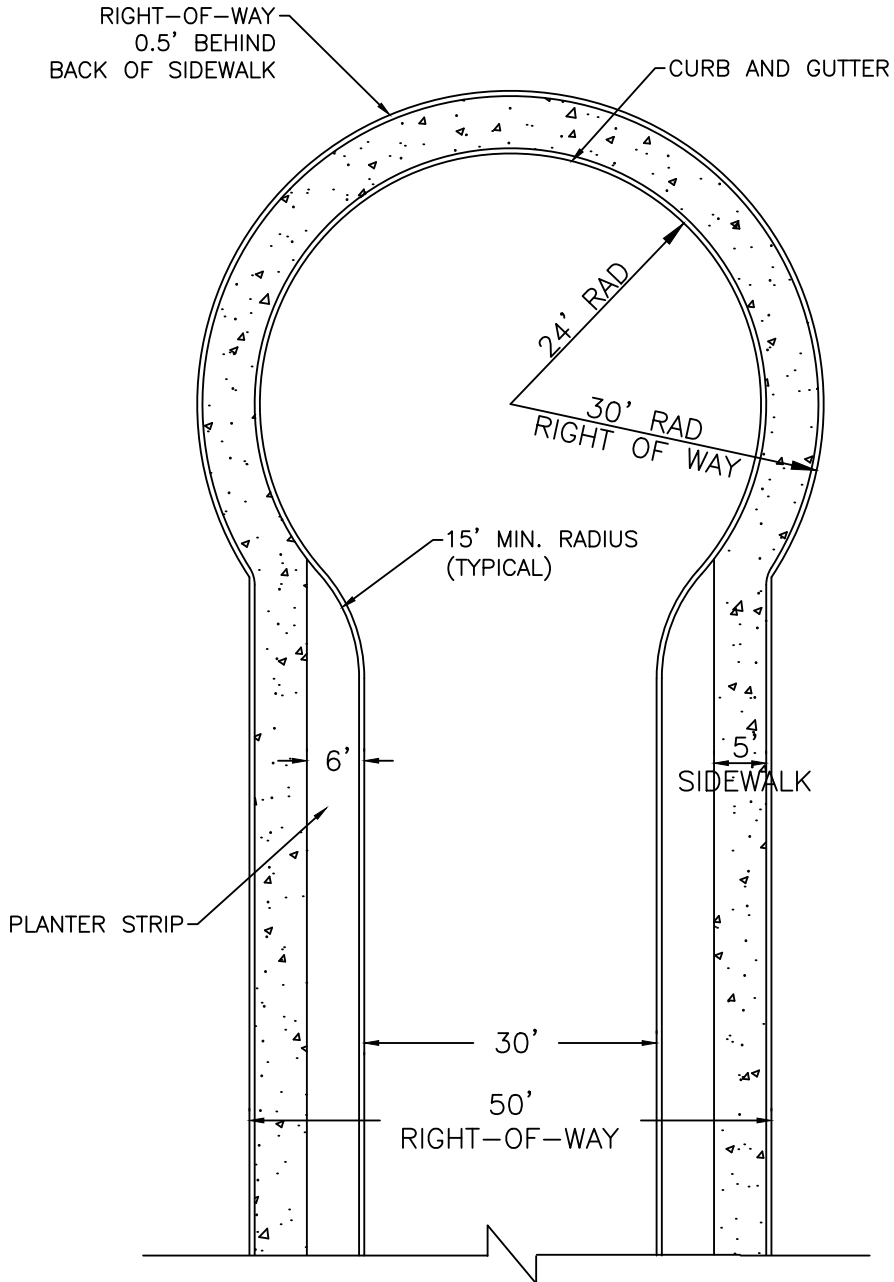
4

NOTE CHANGED

10/23

HGB

FOR STREETS LESS THAN 150 FT IN LENGTH



CITY OF MILWAUKIE, OREGON – PUBLIC WORKS DEPT.

Constrained Right-of-Way Cul-De-Sac

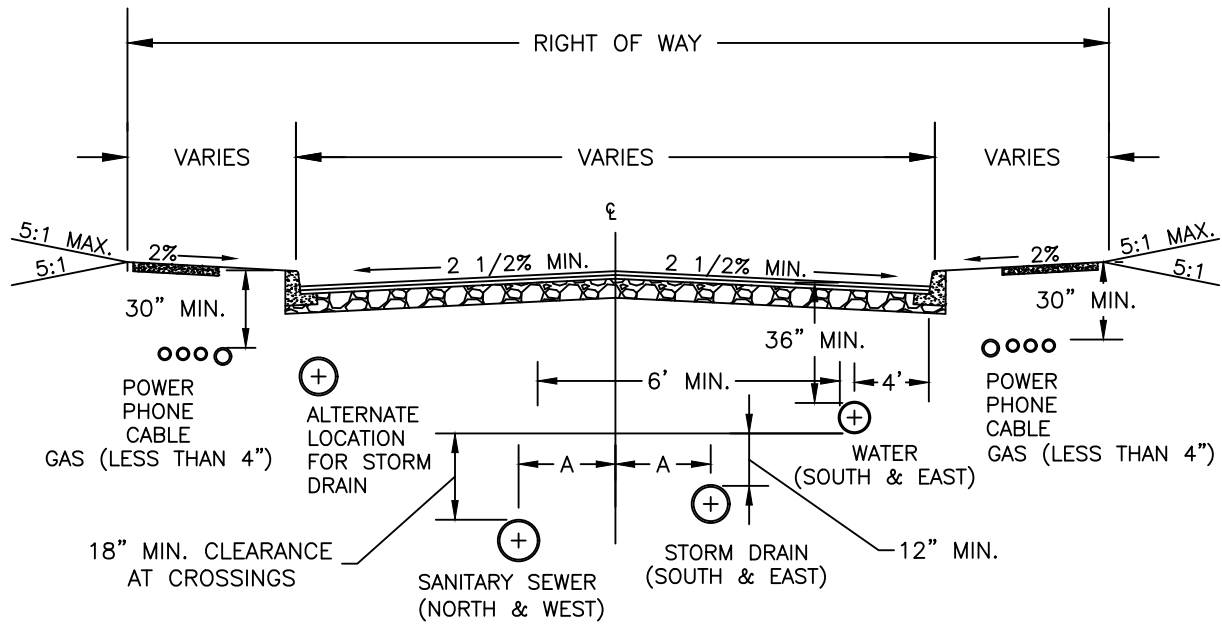
DRAWING NO.

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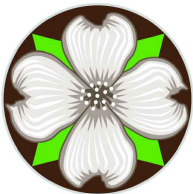
APPROVED *Jennifer Darby* 03/2024
 CITY ENGINEER DATE

NO.	REVISIONS	DATE	BY
1	DRAWING CREATED	11/18	TAP
2	DRAWING RENUMBERED	08/19	TAP
3	NOTE CHANGED	10/23	HGB



NOTE: STREET TREES, LIGHT POLES, AND FIRE HYDRANTS MUST BE LOCATED BETWEEN THE SIDEWALK AND THE CURB FOR CURB SEPARATED SIDEWALKS.

STREET TYPE	RIGHT OF WAY (FT.)	NO. OF LANES	DISTANCE FROM CENTER
			"A"
LOCAL	20-68 FT	2	6 FT
COLLECTOR	40-69 FT	2	6 FT
COLLECTOR	70-74 FT	3	13 FT
ARTERIAL	54-89 FT	3	13 FT
COMMERCIAL & INDUSTRIAL	30-60 FT	2	6 FT
COMMERCIAL & INDUSTRIAL	30-60 FT	3	13 FT
COMMERCIAL & INDUSTRIAL	61-89 FT	3	13 FT
COMMERCIAL & INDUSTRIAL	61-89 FT	4	7 & 19 FT



CITY OF MILWAUKIE, OREGON – PUBLIC WORKS DEPT.

Utility Placement

DRAWING NO.

509

APPROVED

Janice Fairley

03/2024

CITY ENGINEER

DATE

NO.

REVISIONS

DATE

BY

2

DRAWING NUMBER CHANGED

11/18

TAP

3

DRAWING NUMBER AND NOTE CHANGED

08/19

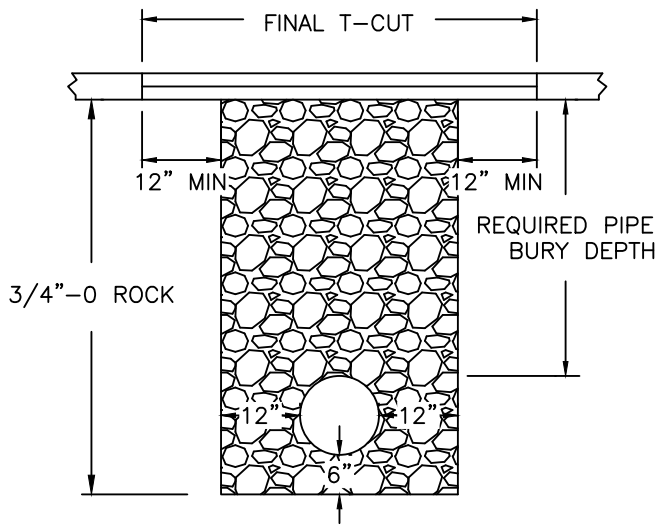
TAP

4

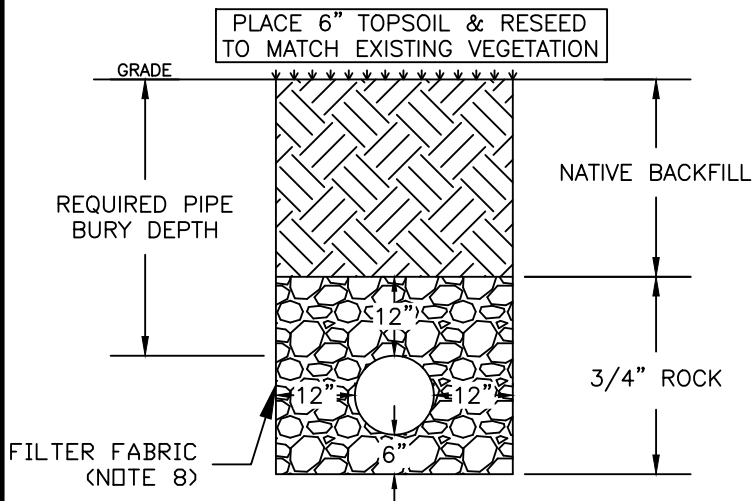
NOTE CHANGED

10/23

HGB



TRENCH WITHIN PAVED AREAS



TRENCH OUTSIDE OF PAVED AREAS

ASPHALT REPLACEMENT DEPTH	
CLASSIFICATION	DEPTH (IN.) WHICHEVER IS GREATER
ARTERIAL/INDUSTRIAL	8 OR EXISTING
COLLECTOR	6 OR EXISTING
LOCAL	4 OR EXISTING

NOTES:

- ADDITIONAL REPAIR IS REQUIRED FOR STREETS PAVED WITHIN THE LAST 5 YEARS. SEE STANDARD DETAIL NO. 511.
- FINAL SAWCUTS MUST BE 6" WIDER THAN THE WIDTH OF THE ROLLER USED FOR COMPACTION
- PAVING TO CONSIST OF LEVEL 3 ASPHALT CONCRETE AND BE PLACED IN LIFTS. EACH LIFT MUST HAVE A MAXIMUM DEPTH OF 3" & MINIMUM DEPTH OF 2".
- INFRARED ASPHALT REPAIRS MAY BE REQUIRED AT THE DISCRETION OF THE CITY ENGINEER.
- UNDERMINED, BROKEN OR CRACKED PAVEMENT EDGES MUST BE SAWCUT AND REMOVED AT THE DISCRETION OF THE CITY ENGINEER.
- CONTROL DENSITY FILL (CDF) MAY BE REQUIRED AT CITY ENGINEER'S DISCRETION.
- ALL ROCK AND BACKFILL TO BE COMPACTED TO 95% MAX. DENSITY AASHTO T-180.
- WRAP BACKFILL IN PIPE ZONE (3" ROCK) IN FILTER FABRIC WITH 12" OVERLAP



CITY OF MILWAUKIE, OREGON – PUBLIC WORKS DEPT.

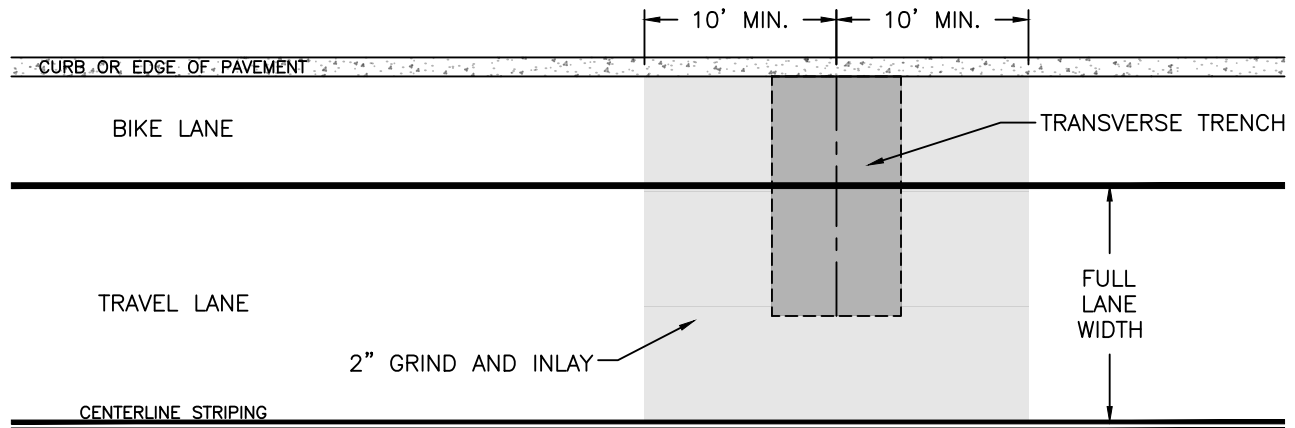
Trench Patch

DRAWING NO.

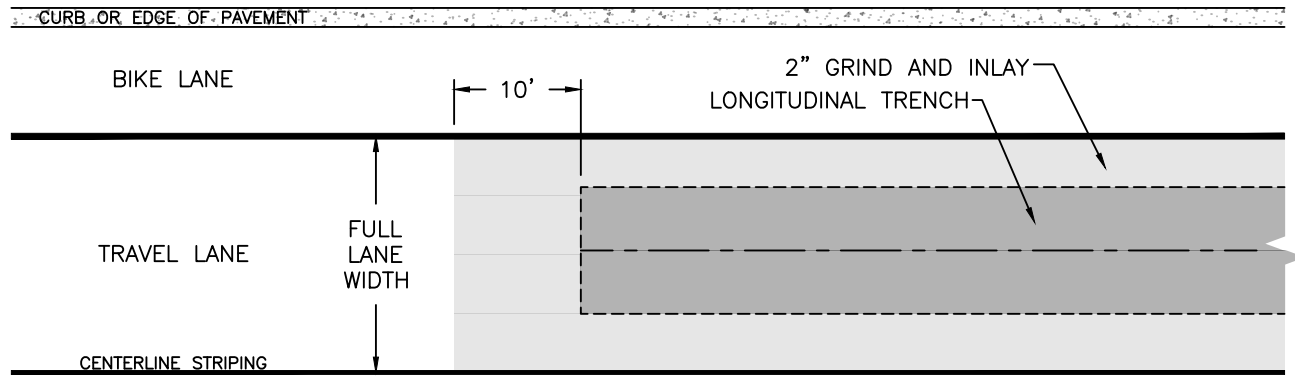
510

APPROVED *Jennifer Jarelsky* 03/2024
CITY ENGINEER DATE

NO.	REVISIONS	DATE	BY
4	DRAWING NUMBER CHANGED	11/18	TAP
5	UPDATED NOTES, DRAWING NUMBER CHANGE	08/19	TAP
6	NOTE CHANGED	10/23	HGB



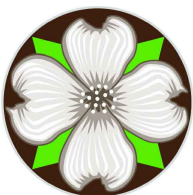
TRANSVERSE TRENCH



LONGITUDINAL TRENCH

NOTES:

1. CALL FOR INSPECTION PRIOR TO PAVING TRENCH TO DISCUSS PREP-WORK WITH INSPECTOR.
2. ASPHALT WITHIN TRENCH AREA IS TO BE REPLACED IN 2" LIFTS BACK TO PREVIOUS GRADE. SEE DETAIL 510 FOR TRENCH REPAIR STANDARDS.
3. LIMITS OF GRIND DESCRIBED ABOVE MUST AT LEAST 2" DEEP FOR ENTIRE AREA. ONCE THIS IS COMPLETE, THE FINAL LIFT MAY BE APPLIED AFTER INSPECTION.
4. ANY TRANSVERSE CUT INTO A LANE REQUIRES A FULL LANE WIDTH, 2" GRIND AND INLAY REPLACEMENT (EXAMPLE: IF THE BIKE LANE IS CUT INTO BUT NOT THE TRAVEL LANE, ONLY THE BIKE LANE WILL REQUIRE A FULL WIDTH 2" GRIND AND INLAY AS SHOWN).
5. STREET OPENING SURCHARGE BASED ON SQUARE FOOT AREA OF TRANSVERSE OR LONGITUDINAL TRENCH.



CITY OF MILWAUKIE, OREGON – PUBLIC WORKS DEPT.

Asphalt Repair for Newly Paved Road

DRAWING NO.

511

APPROVED

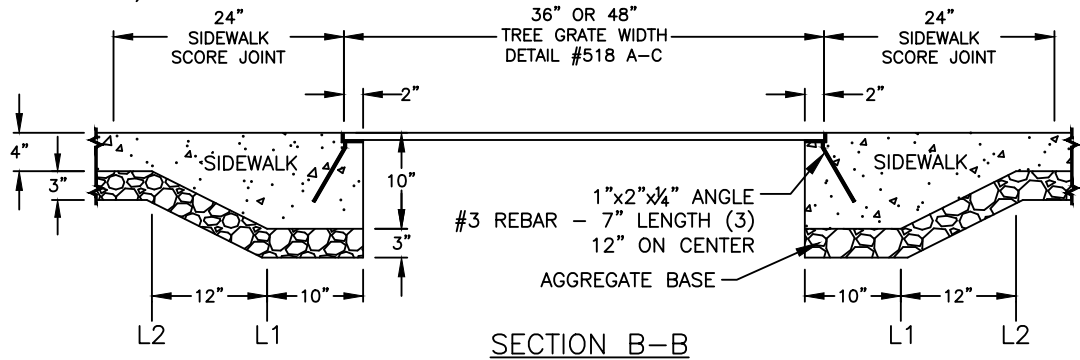
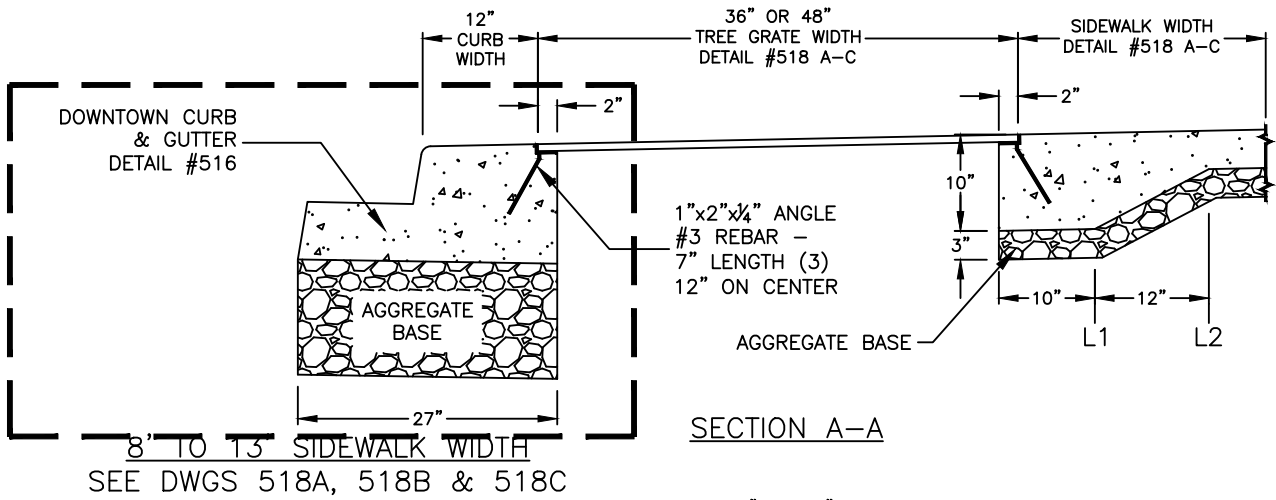
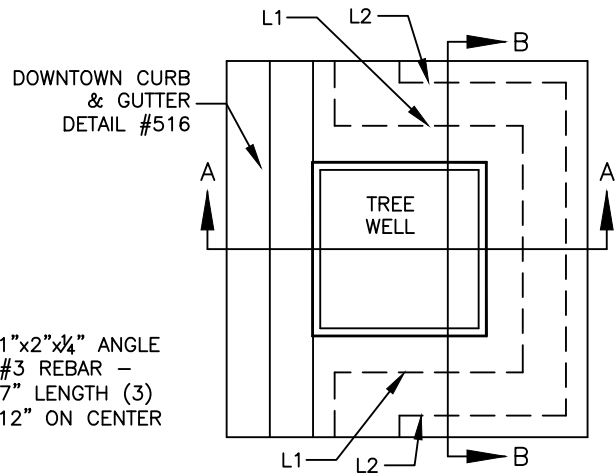
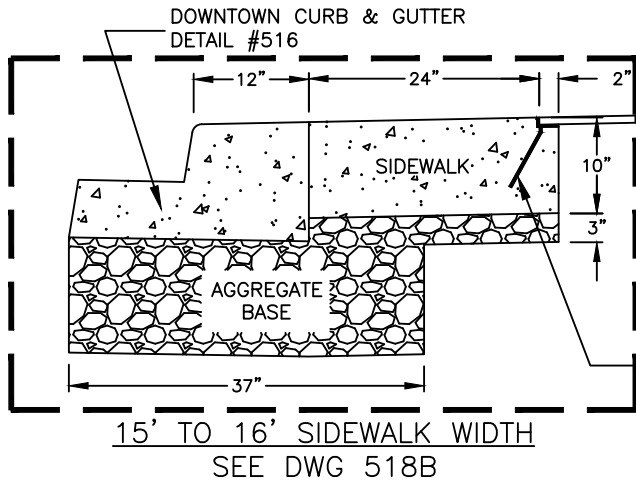
Janice Jarkely

03/2024

CITY ENGINEER

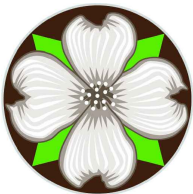
DATE

NO.	REVISIONS	DATE	BY
4	DRAWING NUMBER CHANGED	11/18	TAP
5	DRAWING NUMBER CHANGED	08/19	TAP
6	NOTE ADDED	10/23	HGB



CONSTRUCTION NOTES

1. CONCRETE MUST BE 3300 PSI AT 28 DAYS WITH A SLUMP RANGE OF 2" TO 4".
2. AGGREGATE BASE TO BE COMPACTED TO 95% MAXIMUM DENSITY PER AASHTO T-180.
3. ALL CONCRETE SURFACES TO BE LIGHTLY BROOMED.



CITY OF MILWAUKIE, OREGON – PUBLIC WORKS DEPT.

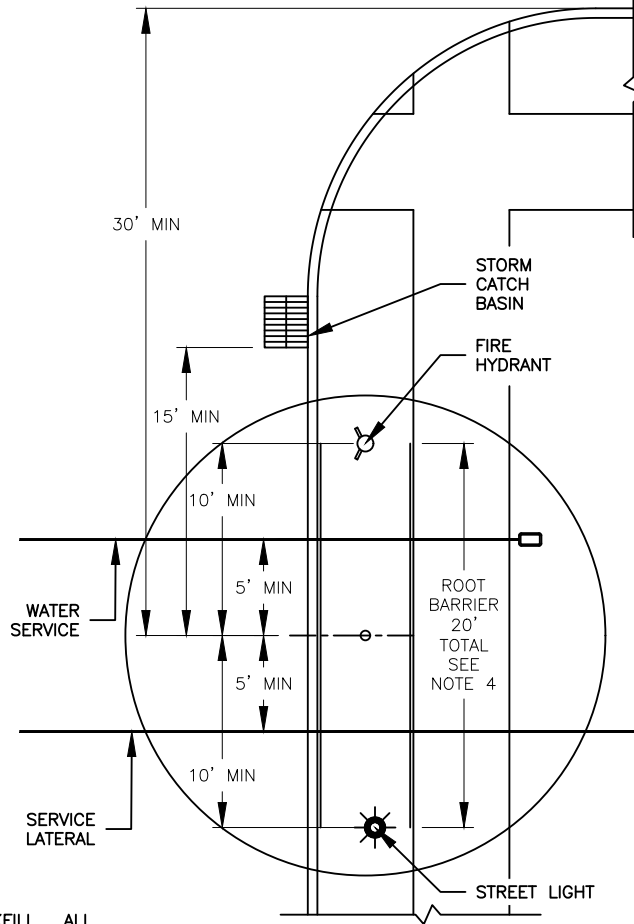
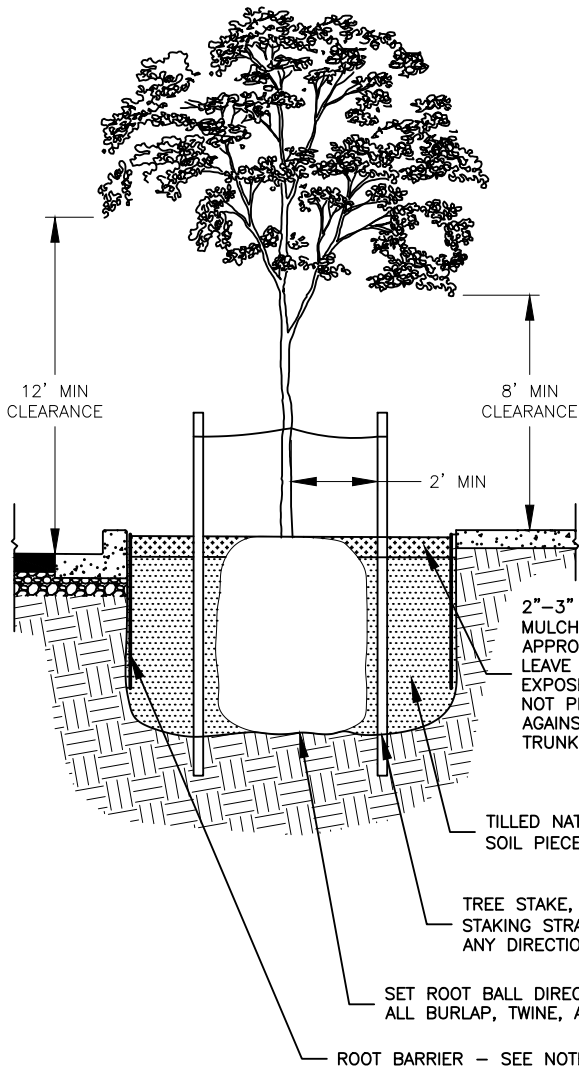
Street Tree Grate

DRAWING NO.

512

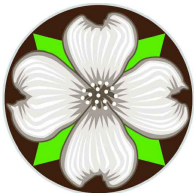
APPROVED *Jennifer Darby* 03/2024
CITY ENGINEER DATE

NO.	REVISIONS	DATE	BY
2	CHANGED DRAWING NUMBER	12/13	AJR
3	RENUMBERED DRAWING, UPDATED NOTES	08/19	TAP
4	NOTE CHANGED	10/23	HGB



PLANTING NOTES

1. PLANTER AND TREE WELL DIMENSION VARIES BY LOCATION AS DETERMINED BY PLANS. DIG HOLE 2-3 TIMES THE ROOT BALL DIAMETER, MINIMUM.
2. TREE ROOT BALLS MUST BE AT LEAST 5' DISTANCE FROM ANY UNDERGROUND UTILITIES OR LATERALS.
3. TREES IN PLANTERS MUST BE CENTERED BETWEEN CURB AND SIDEWALK.
4. ROOT BARRIER TO BE USED FOR ALL STREET TREES LOCATED WITHIN 8 FEET OF ALL CURBS, EDGE OF ASPHALT AND SIDEWALK. ROOT BARRIER TO BE 24" DEEP, 2MM (.08") THICK, 1/2" ABOVE THE SOIL ELEVATION, WITH JOINTS OVERLAPPING 6". ROOT BARRIER TO EXTEND 20 FEET CENTERED WITH THE TREE TRUNK. ROOT BARRIER MUST BE INSTALLED ON ALL SIDES OF PLANTER OR TREE WELL THAT ARE WITHIN 10' OF TREE TRUNK.
5. SEE SECTION 5.0093 FOR APPROVED TREE SPECIES AND SIZE.
6. DO NOT USE TREE TRUNK TO LIFT TREE. IF THE INSPECTOR DETERMINES THAT THE TREE'S ABILITY TO SURVIVE HAS BEEN COMPROMISED, THAT TREE WILL BE REJECTED PRIOR TO PLANTING.



CITY OF MILWAUKIE, OREGON – PUBLIC WORKS DEPT.

Street Tree Planting

DRAWING NO.

513

APPROVED

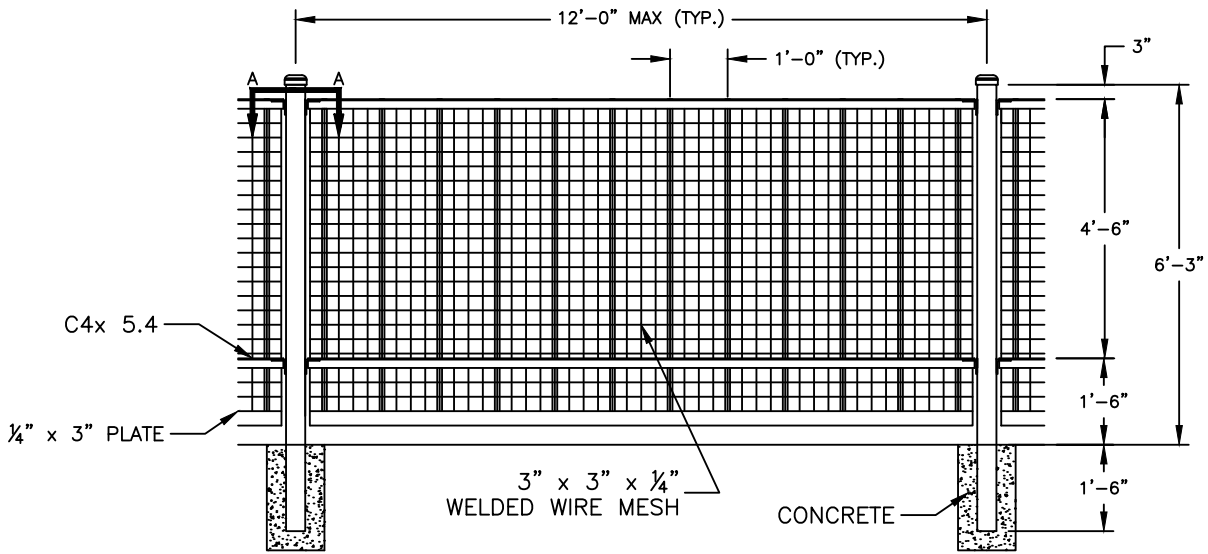
Jennifer Darby

03/2024

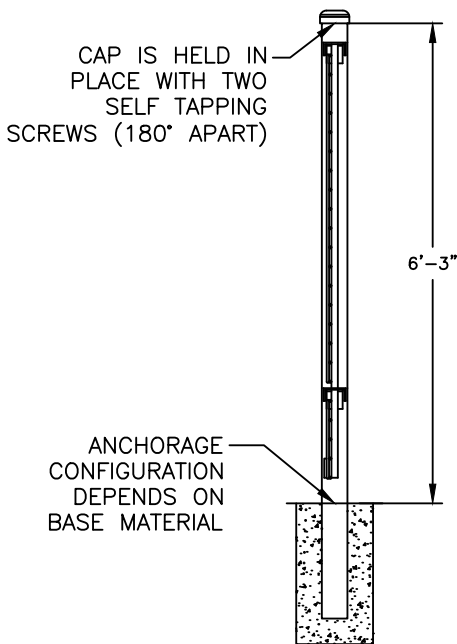
CITY ENGINEER

DATE

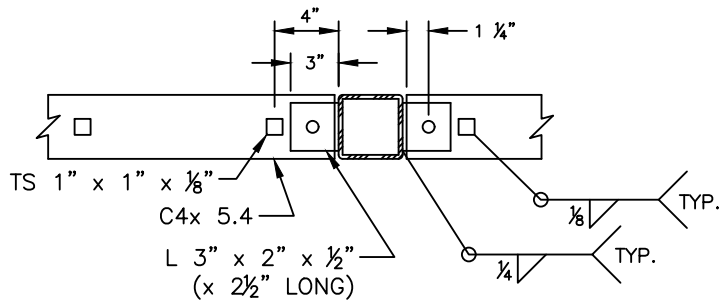
NO.	REVISIONS	DATE	BY
1	NEW DRAWING	11/13	AJR
2	RENUMBERED DRAWING, UPDATED NOTES	08/19	TAP
3	ADDED CLEARANCE NOTES	10/21	TAP



ELEVATION
TYPICAL ORNAMENTAL PANEL



SECTION



SECTION A-A

NOTES:

1. SLOPE OF PANELS MAY VARY. PROVIDE $\frac{3}{16}$ " LONG FLARE BEVEL GROOVE WELDS @ 2'-0" EACH WAY TO 1" SQUARE TUBES.
2. PROVIDE MINIMUM OF 2 WELDS IN MESH BELOW BOTTOM C4 x 5.4.
3. WIRE MESH TO BE PARALLEL WITH VERTICAL BARS. PLACE THE WELD WIRE MESH ON THE OUTSIDE FACE OF THE FENCE.
4. MAXIMUM GAP BETWEEN WIRE MESH AND EDGE MEMBERS NOT TO EXCEED $\frac{1}{4}$ ".
5. FENCE MATERIAL, POSTS, AND BRACKETS TO BE POWDER COATED BLACK PRIOR TO FINAL INSTALLATION ON-SITE.



CITY OF MILWAUKIE, OREGON – PUBLIC WORKS DEPT.

Decorative Fence

DRAWING NO.

514

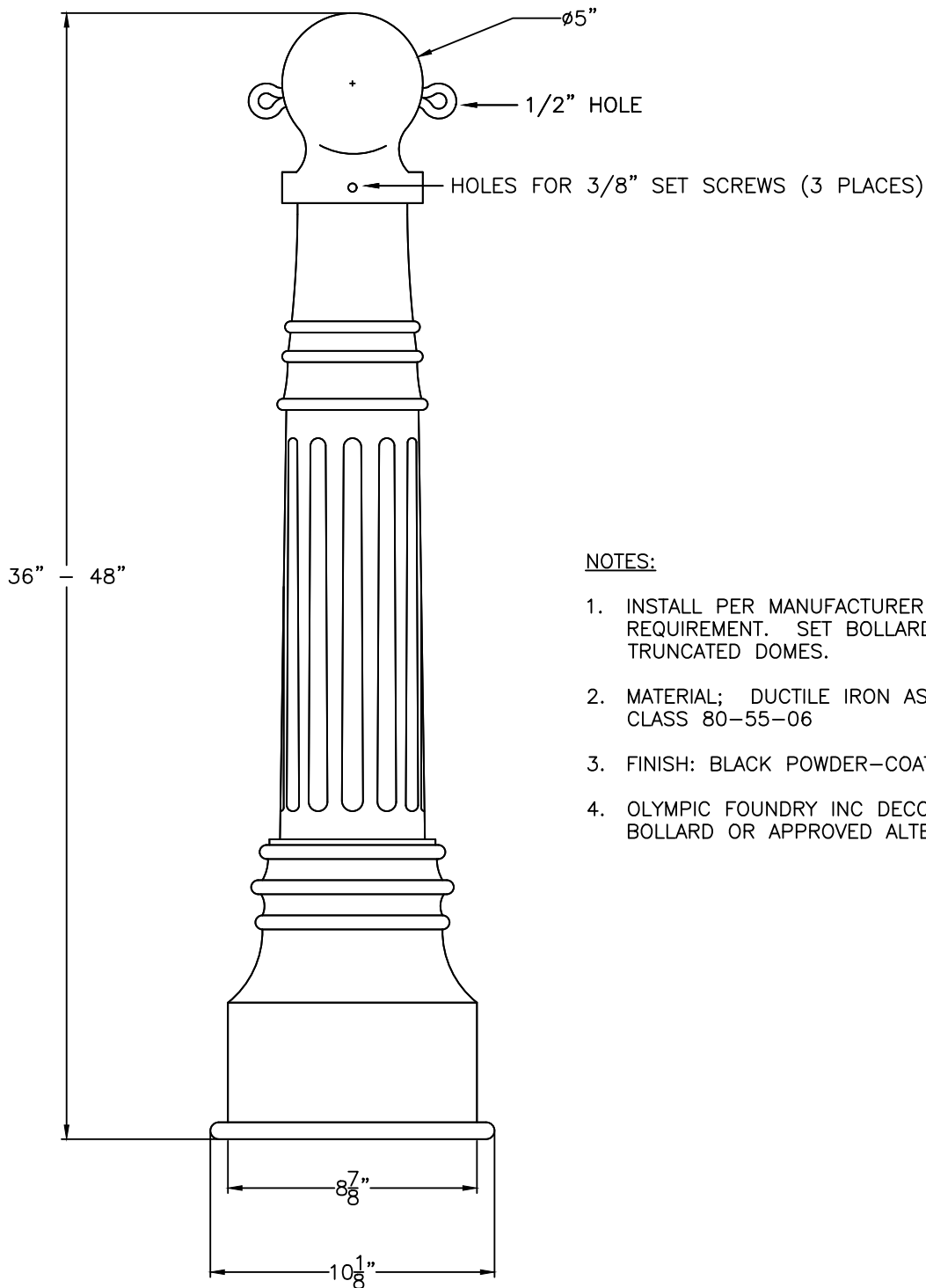
APPROVED

Janice Darby

03/2024
DATE

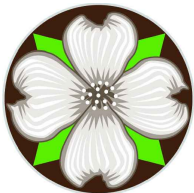
CITY ENGINEER

NO.	REVISIONS	DATE	BY
1	NEW DRAWING	10/09	ZJW
2	RENUMBERED DRAWING, NOTES CHANGED	08/19	TAP



NOTES:

1. INSTALL PER MANUFACTURER REQUIREMENT. SET BOLLARD BEHIND TRUNCATED DOMES.
2. MATERIAL; DUCTILE IRON ASTM A536, CLASS 80-55-06
3. FINISH: BLACK POWDER-COATED
4. OLYMPIC FOUNDRY INC DECORATIVE BOLLARD OR APPROVED ALTERNATE



CITY OF MILWAUKIE, OREGON – PUBLIC WORKS DEPT.

Decorative Bollard

DRAWING NO.

515

APPROVED

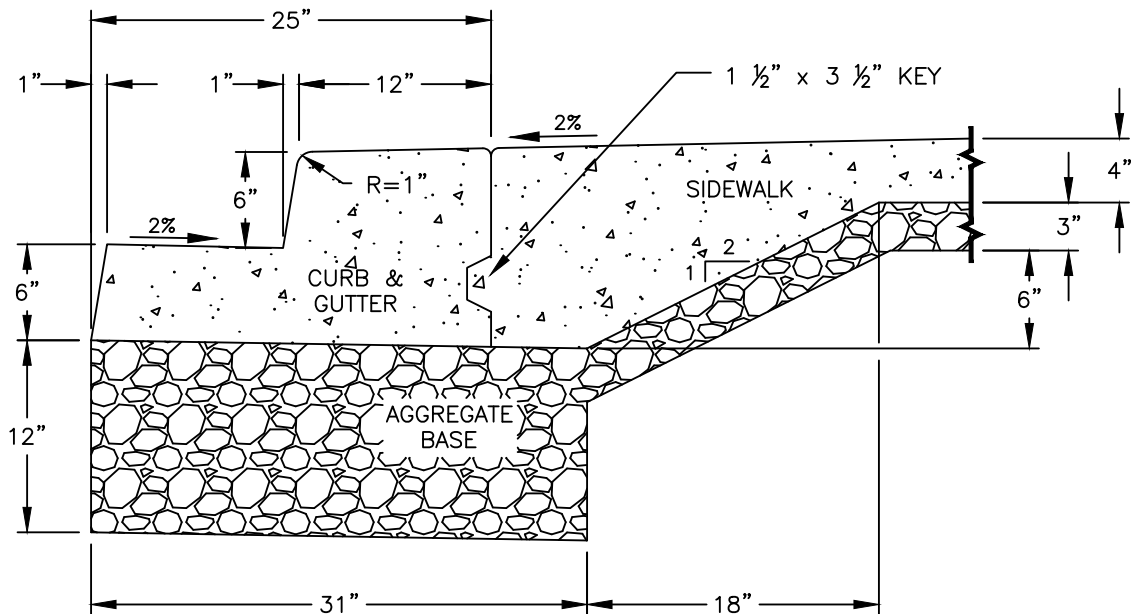
Janice Darby

03/2024

CITY ENGINEER

DATE

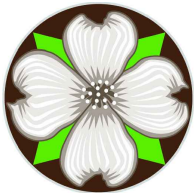
NO.	REVISIONS	DATE	BY
1	DRAWING CREATED	11/18	TAP
2	RENUMBERED DRAWING	08/19	TAP



NOTES:

1. CONCRETE MUST BE 3300 PSI AT 28 DAYS WITH A SLUMP RANGE OF 2" TO 4".
2. AGGREGATE BASE TO BE COMPACTED TO 95% MAXIMUM DENSITY PER AASHTO T-180.
3. CURB & GUTTER AND SIDEWALK TO BE CONSTRUCTED IN SEPARATE POURS.
4. CONTRACTION JOINTS DEPTH MUST BE A MINIMUM $\frac{1}{3}$ OF THE CONCRETE THICKNESS. CONTRACTION JOINTS ARE REQUIRED AT EACH POINT OF TANGENCY AND EVERY 10 FEET OF CURB LENGTH. CONTRACTION JOINTS MUST ALIGN WITH SIDEWALK JOINTS. SIDEWALK CONTRACTION JOINTS TO BE INSTALLED PER DETAIL #518 A-C.
5. THE BACK OF CURB TO BE TROWLED WITH A $\frac{1}{2}$ " RADIUS JOINT.
6. ALL SURFACES TO BE STEEL TROWELED.
7. WHERE EXISTING CURB IS TO BE REMOVED OR REPLACED, THE CURB MUST BE SAWCUT AND REMOVED AT A JOINT.

ATTENTION: ALL CONCRETE WORK WITHIN THE PUBLIC RIGHT-OF-WAY REQUIRES A RIGHT-OF-WAY PERMIT IN ADDITION TO SUB-GRADE, BASE ROCK, AND CONCRETE FORM INSPECTION AND APPROVAL BY THE CITY INSPECTOR PRIOR TO POURING CONCRETE.



CITY OF MILWAUKIE, OREGON – PUBLIC WORKS DEPT.

Downtown Curb & Gutter

DRAWING NO.

516

APPROVED

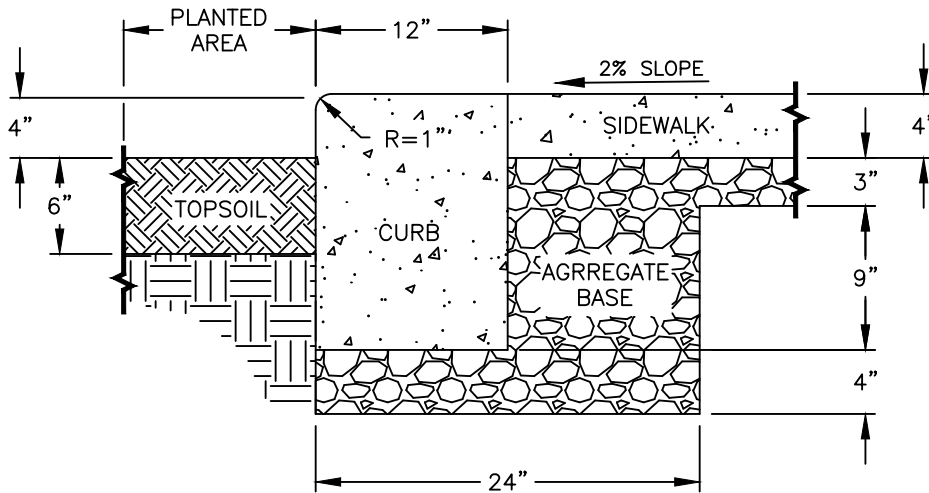
Janice Darby

03/2024

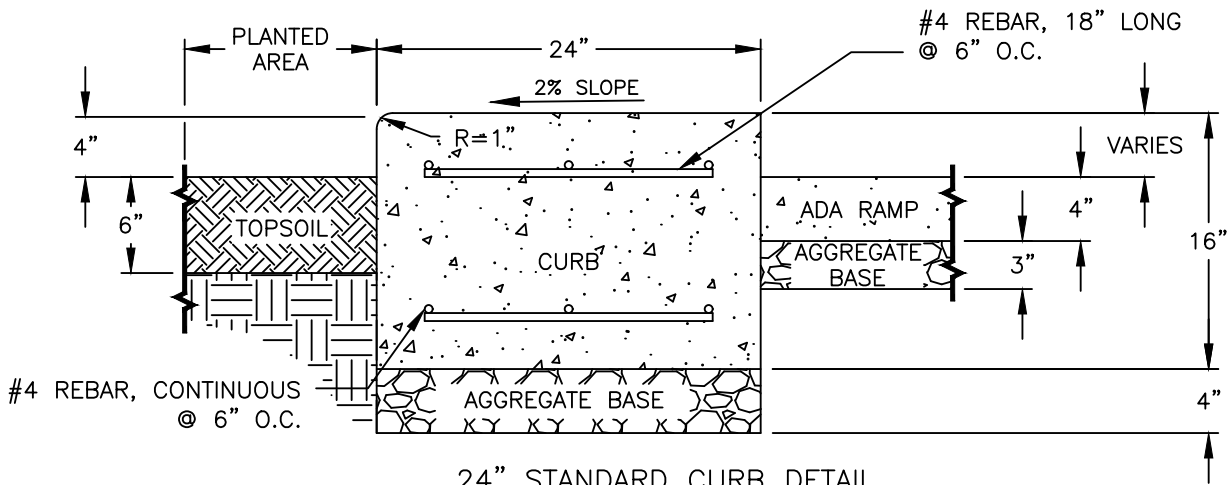
CITY ENGINEER

DATE

NO.	REVISIONS	DATE	BY
1	NEW DRAWING	10/09	ZJW
2	RENUMBERED DRAWING, UPDATED NOTES	08/19	TAP



12" STANDARD CURB DETAIL

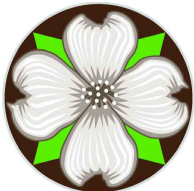


24" STANDARD CURB DETAIL

NOTES:

1. CONCRETE MUST BE 3300 PSI AT 28 DAYS WITH A SLUMP RANGE OF 2" TO 4".
2. AGGREGATE BASE TO BE COMPACTED TO 95% MAXIMUM DENSITY OF AASHTO T-180.
3. REBAR TO BE INSTALLED WITH A 3" CLEARANCE FROM ALL CONCRETE SURFACES.
4. CURB AND SIDEWALK TO BE CONSTRUCTED IN SEPARATE POURS.
5. CONTRACTION JOINTS DEPTH MUST BE A MINIMUM 1/4 OF THE CONCRETE THICKNESS. CONTRACTION JOINTS ARE REQUIRED AT EACH POINT OF TANGENCY AND EVERY 10 FEET OF CURB LENGTH. CONTRACTION JOINTS MUST ALIGN WITH SIDEWALK JOINTS. SIDEWALK CONTRACTION JOINTS TO BE INSTALLED PER DRAWING NO. #518 A-C.
6. THE BACK OF CURB TO BE TROWELED WITH A 1/2" RADIUS JOINT.
7. ALL SURFACES TO BE STEEL TROWELED.
8. WHERE EXISTING CURB IS TO BE REMOVED OR REPLACED, THE CURB MUST BE SAWCUT AND REMOVED AT A JOINT.

ATTENTION: ALL CONCRETE WORK WITHIN THE PUBLIC RIGHT-OF-WAY REQUIRES A RIGHT-OF-WAY PERMIT IN ADDITION TO SUB-GRADE, BASE ROCK, AND CONCRETE FORM INSPECTION AND APPROVAL BY THE CITY INSPECTOR PRIOR TO POURING CONCRETE.



CITY OF MILWAUKIE, OREGON – PUBLIC WORKS DEPT.

Downtown Curb

DRAWING NO.

517

APPROVED

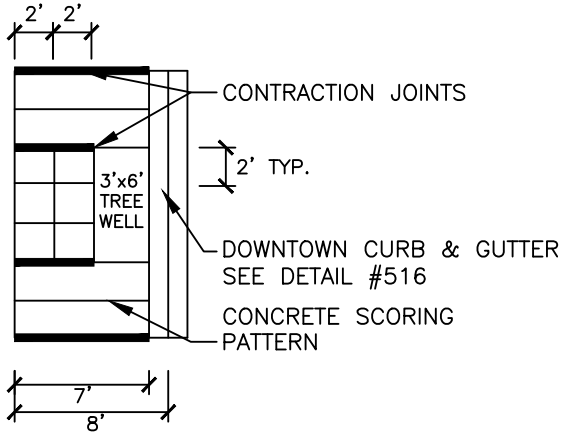
Jennifer Darby

03/2024

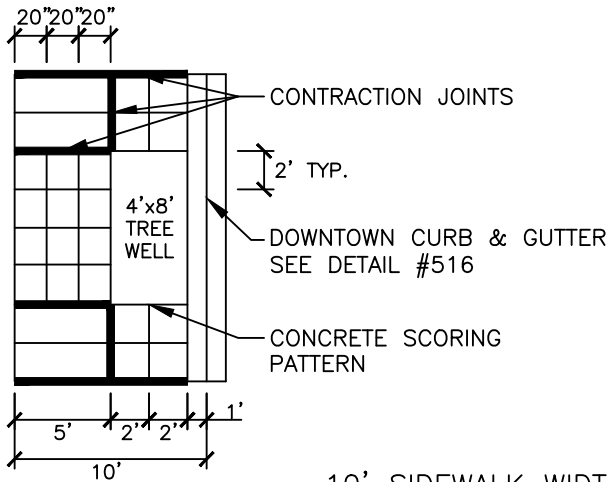
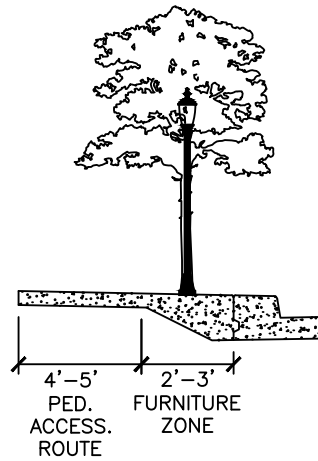
CITY ENGINEER

DATE

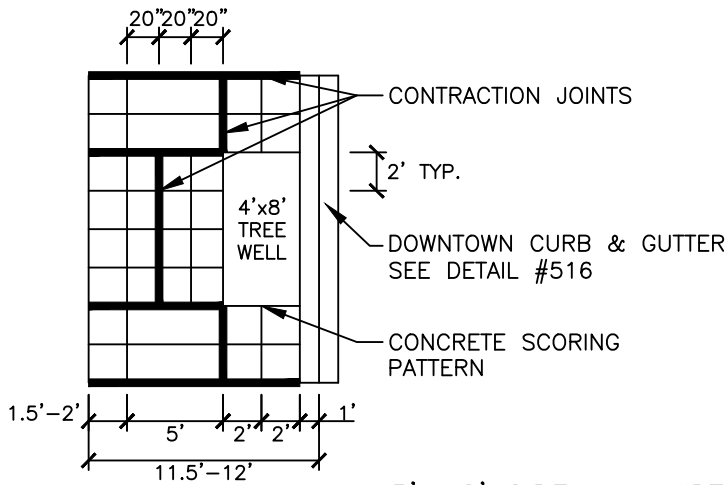
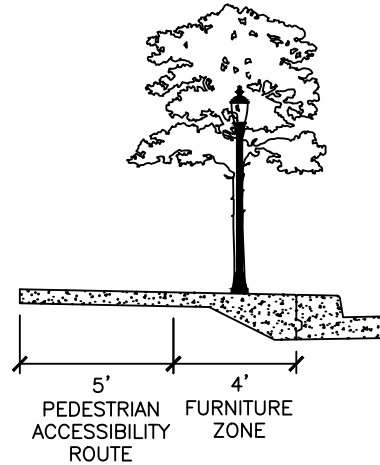
NO.	REVISIONS	DATE	BY
1	NEW DRAWING	10/09	ZJW
2	RENUMBERED DRAWING, UPDATED NOTES	08/19	TAP



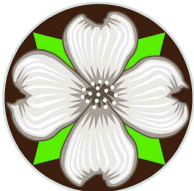
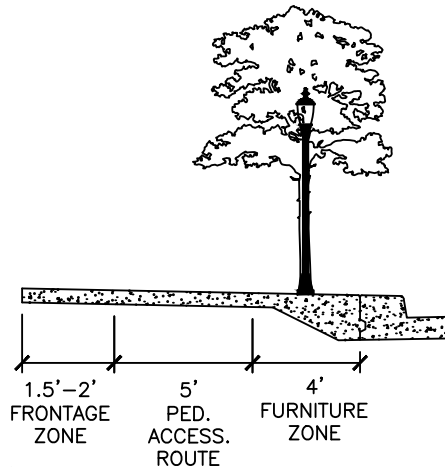
8' SIDEWALK WIDTH



10' SIDEWALK WIDTH



11.5'-12' SIDEWALK WIDTH



CITY OF MILWAUKIE, OREGON – PUBLIC WORKS DEPT.

Downtown Sidewalk

DRAWING NO.

518A

APPROVED

Janice Parkley

03/2024

CITY ENGINEER

DATE

NO.

REVISIONS

DATE

BY

2

REVISED SCORING PATTERN & NOW A-C

12/13

AJR

3

REVISED DIMENSIONS & PARTITION NAMES

08/16

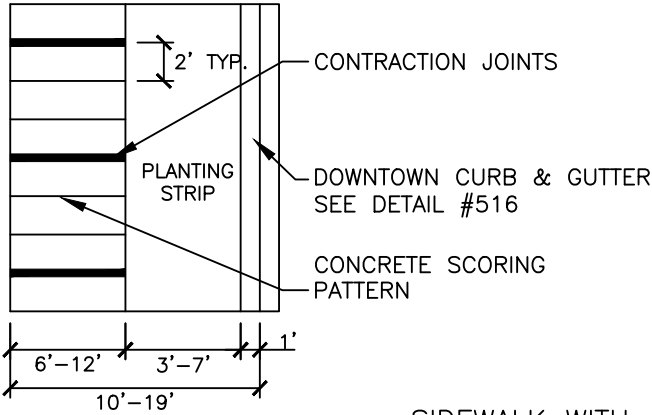
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4

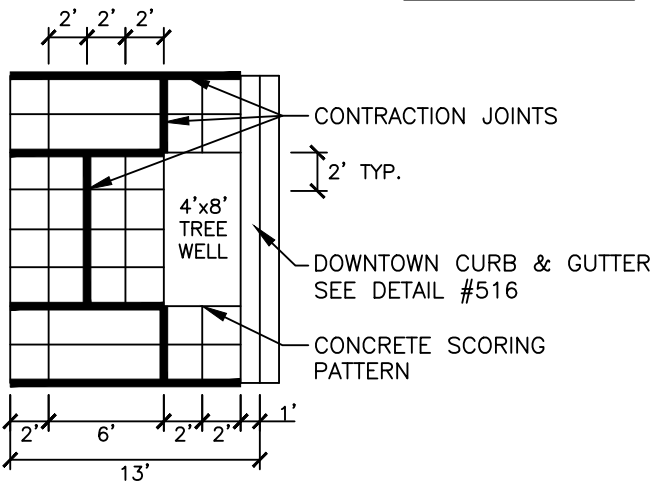
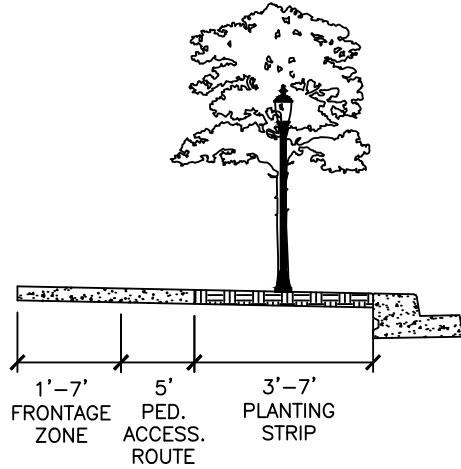
RENUMBERED DRAWING, UPDATED NOTES

08/19

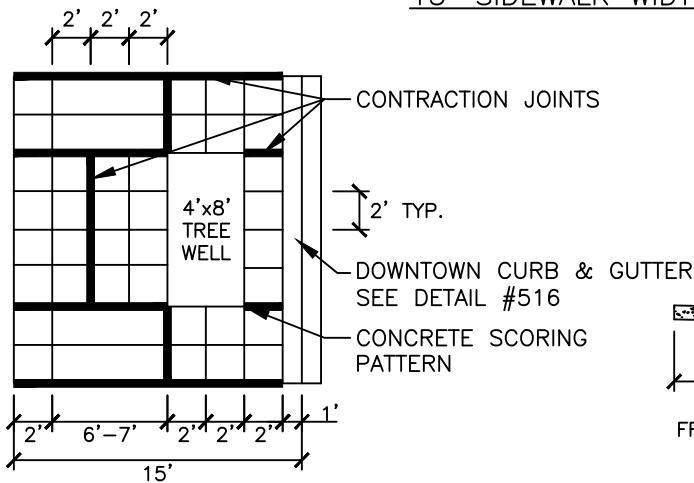
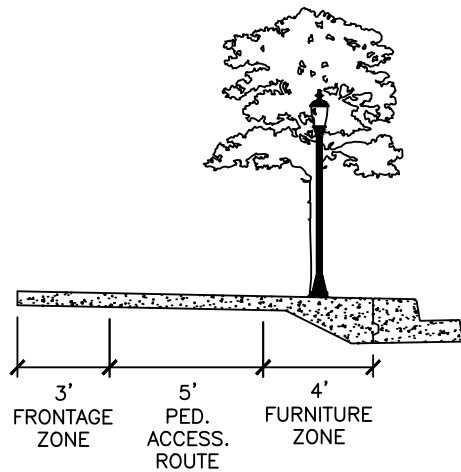
TAP



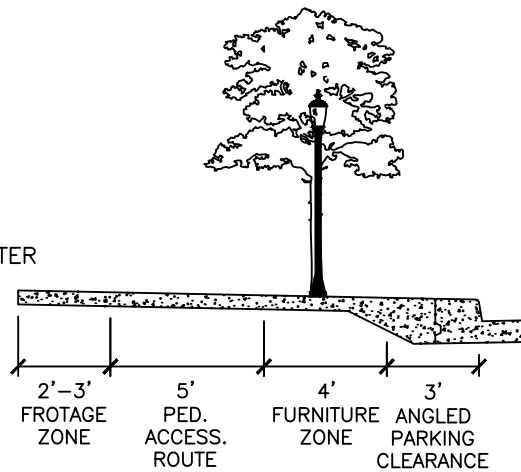
SIDEWALK WITH PLANTING STRIP



13' SIDEWALK WIDTH



15'-16' SIDEWALK WIDTH



CITY OF MILWAUKIE, OREGON – PUBLIC WORKS DEPT.

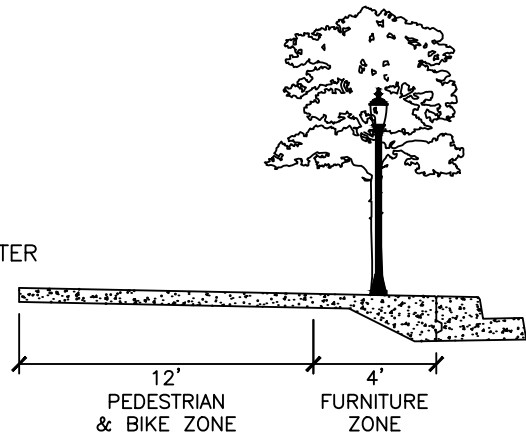
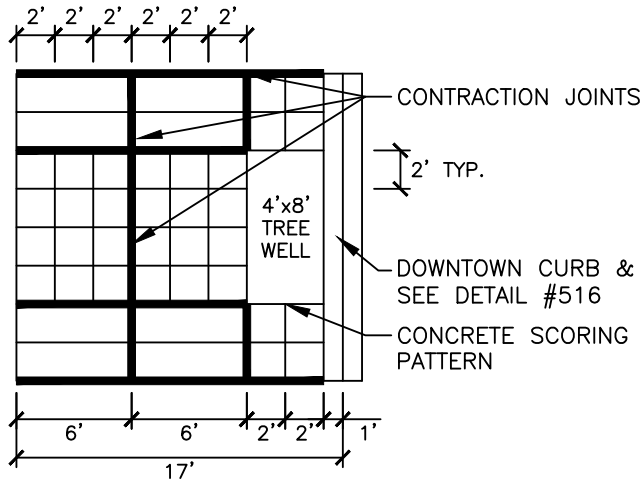
Downtown Sidewalk

DRAWING NO.

518B

APPROVED *Janice Darby*
CITY ENGINEER
DATE 03/2024

NO.	REVISIONS	DATE	BY
2	REVISED SCORING PATTERN & NOW A-C	12/13	AJR
3	REVISED DIMENSIONS & PARTITION NAMES	08/16	LMO
4	RENUMBERED DRAWING, UPDATED NOTES	08/19	TAP



17' MULTI-USE PATH



CITY OF MILWAUKIE, OREGON – PUBLIC WORKS DEPT.

Downtown Sidewalk

DRAWING NO.

518C

APPROVED

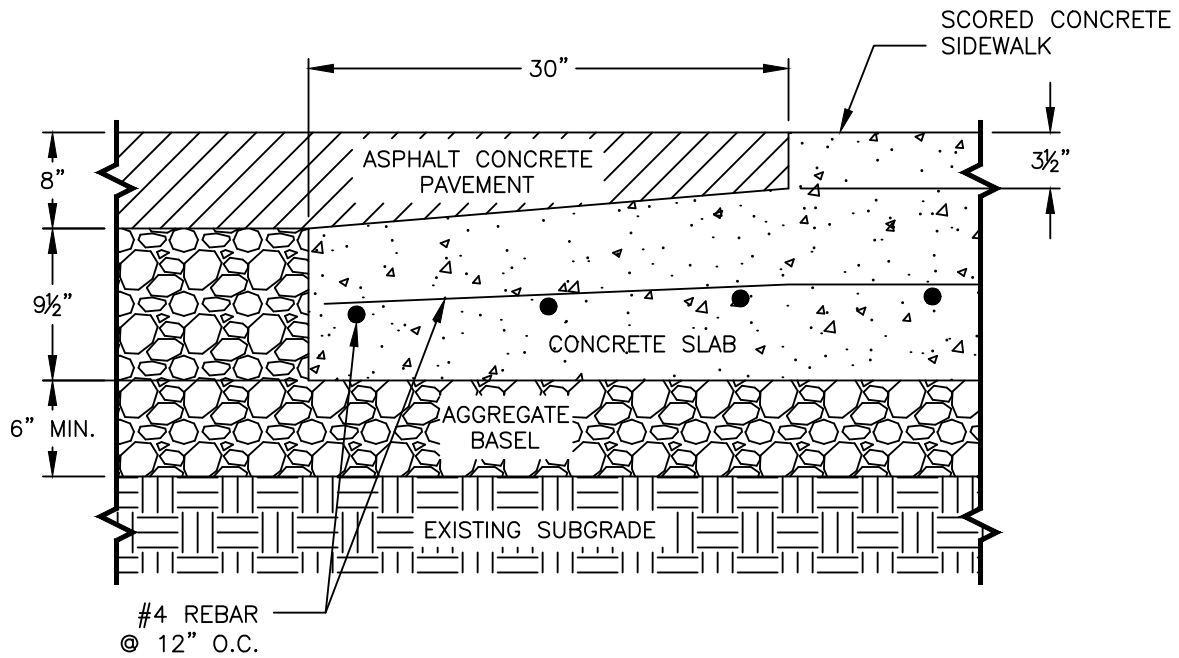
Janice Darby

03/2024

CITY ENGINEER

DATE

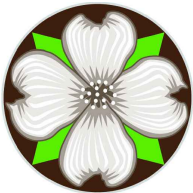
NO.	REVISIONS	DATE	BY
1	ADDED 17' MULTI-USE PATH	12/11	ZJW
2	REVISED SCORING PATTERN & NOW A-C	12/13	AJR
3	RENUMBERED DRAWING, UPDATED NOTES	08/19	TAP



NOTES:

1. CONCRETE MUST BE 4000 PSI AT 28 DAYS WITH A SLUMP RANGE OF 2" TO 4".
2. AGGREGATE BASE TO BE COMPACTED TO 95% MAXIMUM DENSITY PER AASHTO T-180.
3. ALL EXPOSED SURFACES TO BE LIGHTLY BROOMED.

ATTENTION: ALL CONCRETE WORK WITHIN THE PUBLIC RIGHT-OF-WAY REQUIRES A RIGHT-OF-WAY PERMIT IN ADDITION TO SUB-GRADE, BASE ROCK, AND CONCRETE FORM INSPECTION AND APPROVAL BY THE CITY INSPECTOR PRIOR TO POURING CONCRETE.



CITY OF MILWAUKIE, OREGON – PUBLIC WORKS DEPT.

Downtown Crosswalk Transition

DRAWING NO.

519

APPROVED

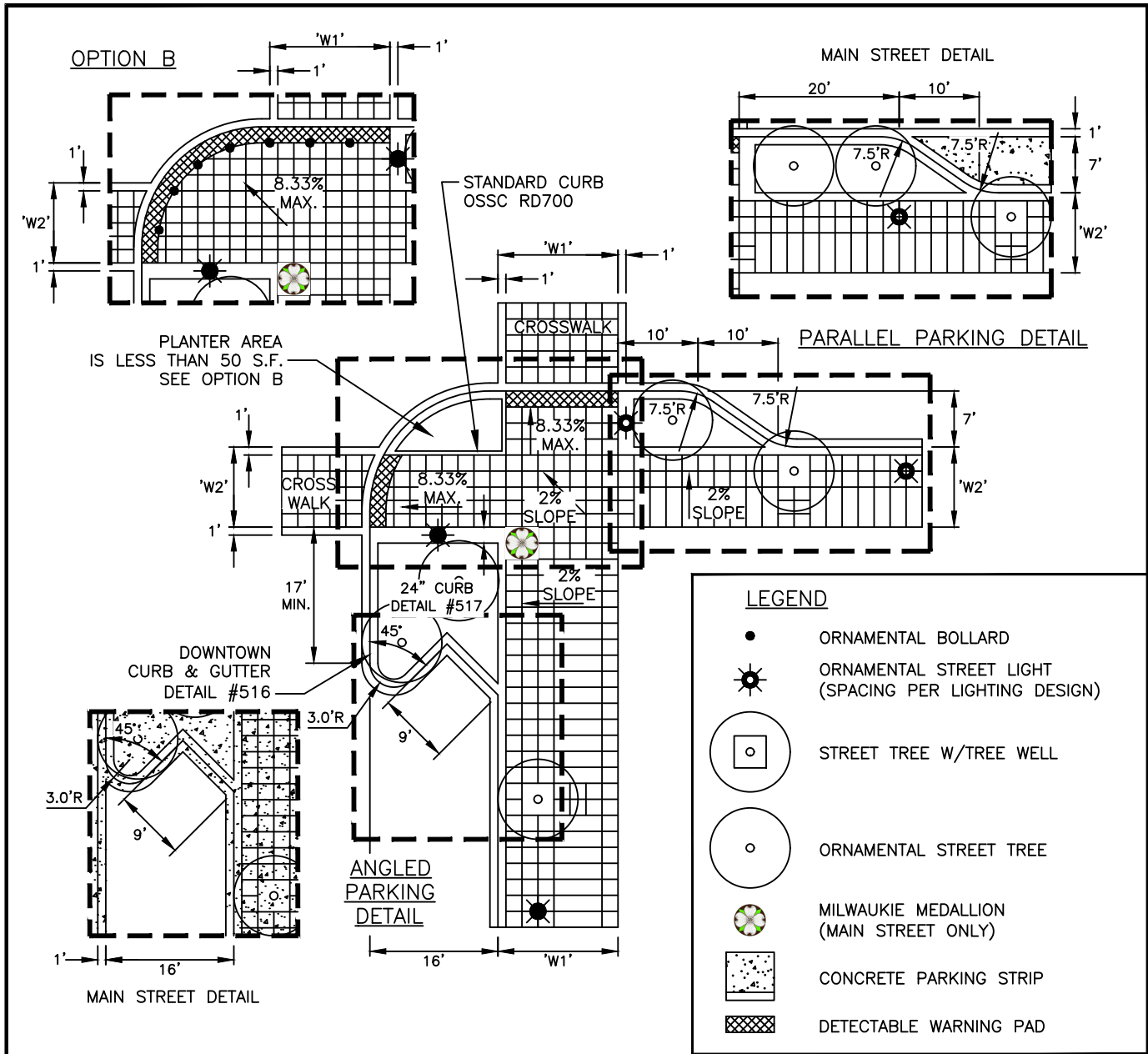
Janice Darby

03/2024

CITY ENGINEER

DATE

NO.	REVISIONS	DATE	BY
1	NEW DRAWING	10/09	ZJW
2	RENUMBERED DRAWING, UPDATED NOTES	08/19	TAP



CONSTRUCTION NOTES

1. SIDEWALK WIDTH, DIMENSION 'W1' AND 'W2', PER STREET CROSS-SECTION DETAIL FOR STREETS BEING DESIGNED.
2. PROVIDE 35' CURB RADIUS, DIMENSION "R1", FOR ALL STREET CORNERS WITH RIGHT-TURNING TRANSIT MOVEMENTS. PROVIDE 15' CURB RADIUS FOR ALL OTHER STREET CORNERS.
3. CROSSWALK SCORING MUST MATCH ADJACENT SIDEWALK, MAXIMUM 2'x2' SQUARES. SEE DETAIL #519 FOR CROSSWALK TO STREET PAVEMENT TRANSITION DETAIL.
4. CONCRETE PARKING AREAS FOR MAIN STREET TO BE 4000 PSI AT 28 DAYS WITH A SLUMP RANGE OF 2" TO 4". MINIMUM 10" DEPTH OF CONCRETE WITH 10" DEPTH OF AGGREGATE BASE.
5. DETECTABLE WARNING PAD TO BE 24" LONG IN DIRECTION OF TRAVEL AND INSTALLED ALONG THE FULL WIDTH OF THE BOTTOM OF THE SIDEWALK RAMP. PADS TO BE CUT TO FIT ALONG CURB RADIUS THROUGH, APPROVAL BY CITY ENGINEER. ADA SOLUTIONS ADA CAST-IN-PLACE REPLACEABLE TACTILE UNITS OR APPROVED EQUAL.



CITY OF MILWAUKIE, OREGON – PUBLIC WORKS DEPT.

Downtown Intersection Curb Extension

DRAWING NO.

520

APPROVED

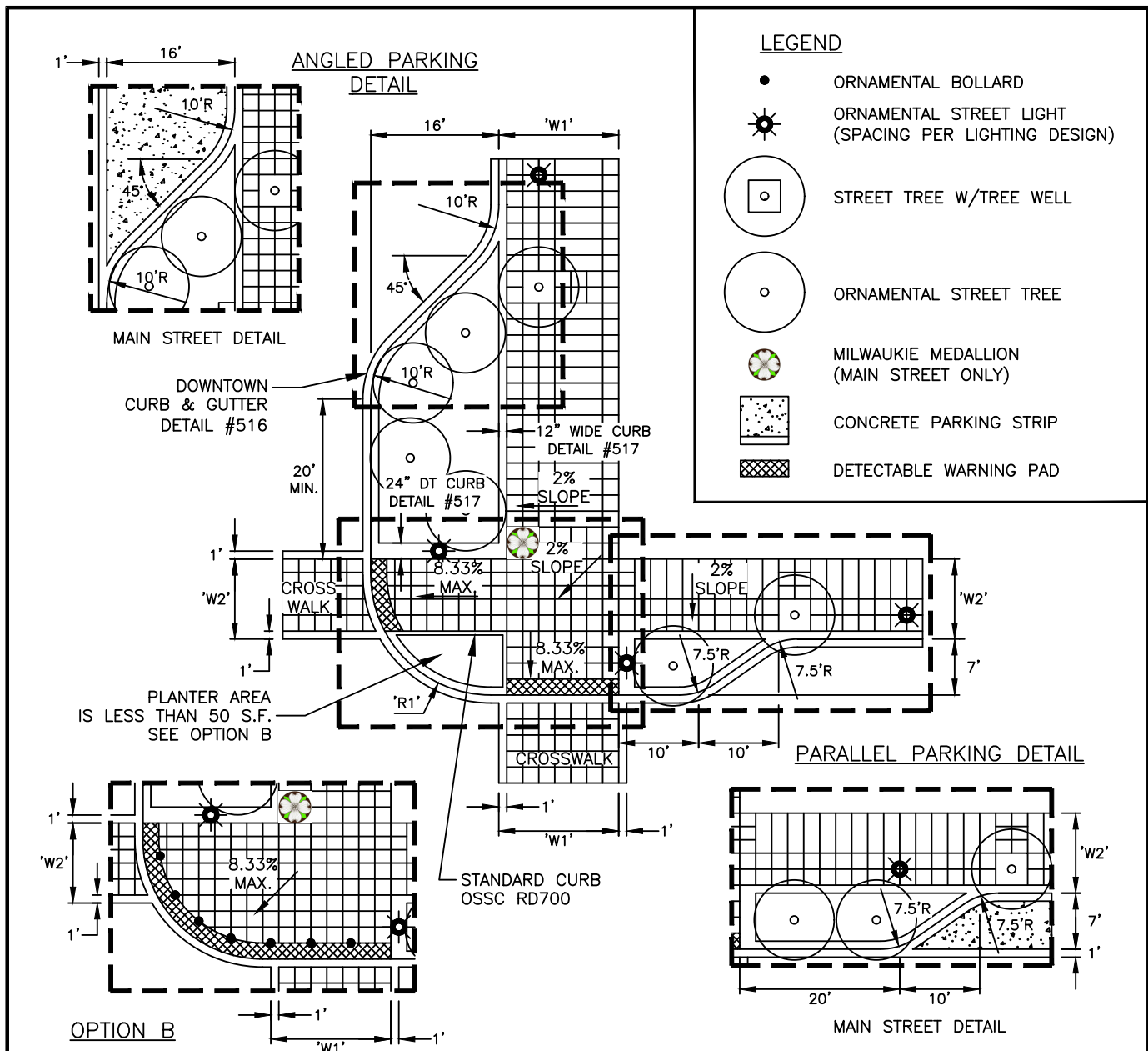
Janice J. Javelly

03/2024

CITY ENGINEER

DATE

NO.	REVISIONS	DATE	BY
1	NEW DRAWING	10/09	ZJW
2	RENUMBERED DRAWING, UPDATED NOTES	08/19	TAP
3	UPDATED NOTES	01/21	TAP



CONSTRUCTION NOTES

1. SIDEWALK WIDTH, DIMENSION 'W1' AND 'W2', PER STREET CROSS-SECTION DETAIL FOR STREETS BEING DESIGNED.
2. PROVIDE 35' CURB RADIUS, DIMENSION "R1", FOR ALL STREET CORNERS WITH RIGHT-TURNING TRANSIT MOVEMENTS. PROVIDE 15' CURB RADIUS FOR ALL OTHER STREET CORNERS.
3. CROSSWALK SCORING MUST MATCH ADJACENT SIDEWALK, MAXIMUM 2'x2' SQUARES. SEE DETAIL #519 FOR CROSSWALK TO STREET PAVEMENT TRANSITION DETAIL.
4. CONCRETE PARKING AREAS FOR MAIN STREET TO BE 4000 PSI AT 28 DAYS WITH A SLUMP RANGE OF 2" TO 4". MINIMUM 10" DEPTH OF CONCRETE WITH 10" DEPTH OF AGGREGATE BASE.
5. DETECTABLE WARNING PAD TO BE 24" LONG IN DIRECTION OF TRAVEL AND INSTALLED ALONG THE FULL WIDTH OF THE BOTTOM OF THE SIDEWALK RAMP. PADS TO BE CUT TO FIT ALONG CURB RADIUS, THROUGH APPROVAL BY CITY ENGINEER. ADA SOLUTIONS ADA CAST-IN-PLACE REPLACEABLE TACTILE UNITS OR APPROVED EQUAL.



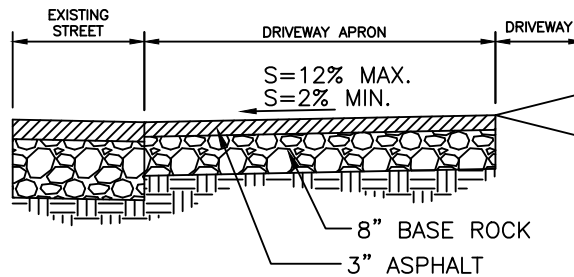
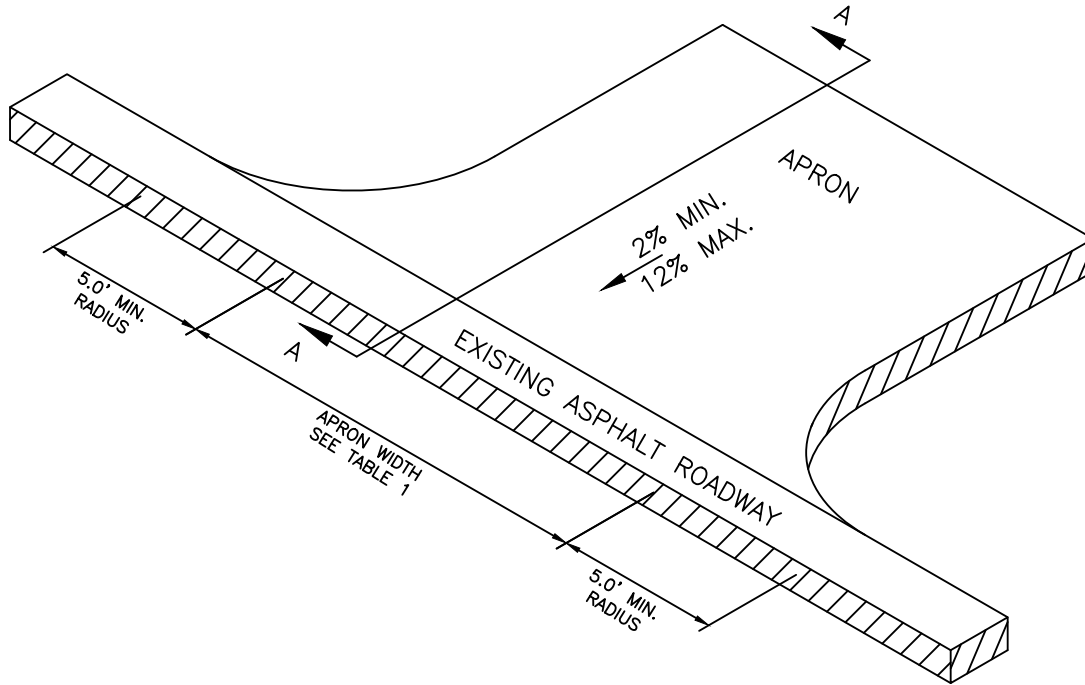
CITY OF MILWAUKIE, OREGON – PUBLIC WORKS DEPT.

Downtown Intersection Curb Extension

DRAWING NO.

521

APPROVED <i>Janice Darby</i> CITY ENGINEER	DATE 03/2024	NO.	REVISIONS	DATE	BY
		2	CHANGED DRAWING NUMBER	12/13	AJR
		3	RENUMBERED DRAWING, UPDATED NOTES	08/19	TAP
		4	UPDATED NOTES	01/21	TAP



CROSS SECTION A-A

CLASSIFICATION	MIN. WIDTH	MAX. WIDTH
1-4 DWELLING UNITS – LOCAL STREET	12.0'	20.0'
1-4 DWELLING UNITS – COLLECTOR STREET	16.0'	20.0'
5-8 DWELLING UNITS – LOCAL STREET	16.0'	24.0'
5-8 DWELLING UNITS – COLLECTOR STREET	20.0'	24.0'
MORE THAN 8 DWELLING UNITS – LOCAL STREET	20.0'	30.0'
MORE THAN 8 DWELLING UNITS – LOCAL STREET	24.0'	30.0'
COMMERCIAL, OFFICES, OR INSTITUTIONAL	16.0'	36.0'
INDUSTRIAL	24.0'	45.0'

1. ALL PAVEMENT INSTALLATION TO BE HOT LEVEL 2 ASPHALT CONCRETE.
2. EXISTING ASPHALT CONCRETE IN FRONT OF THE DRIVEWAY APRON MUST BE SAW CUT ALONG A LINE PARALLEL TO THE FRONTING PROPERTY LINE TO PROVIDE A CLEAN SURFACE FOR THE DRIVEWAY APPROACH TO TIE INTO.
3. SEAL ALL JOINTS WITH A HEAT APPLIED RUBBERIZED SEALANT. SEALANT TO CONFORM TO ASTM D6690 TYPE 1, OR APPROVED EQUAL.



CITY OF MILWAUKIE, OREGON – PUBLIC WORKS DEPT.

Asphalt Driveway Approach

DRAWING NO.

522

APPROVED

Janice Darby

03/2024

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NO.

REVISIONS

DATE

BY

3

CHANGED NOTE 3

12/14

AJR

4

RENUMBERED DRAWING, UPDATED NOTES

08/19

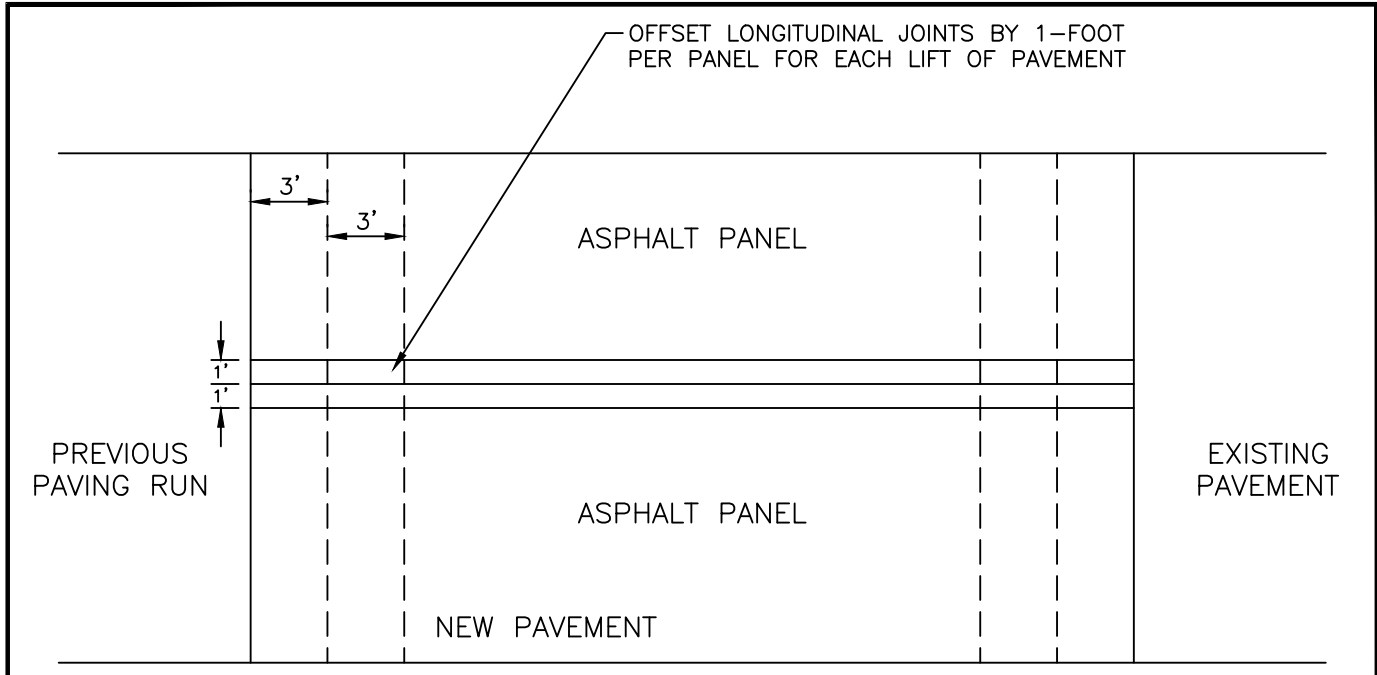
TAP

5

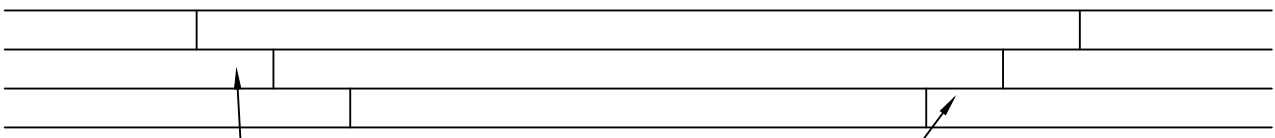
UPDATED TABLE

11/23

TAP



PLAN VIEW



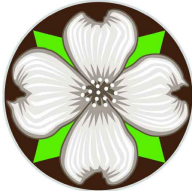
← OFFSET END OF PAVING RUN BY 3 FEET FOR EACH LIFT OF PAVEMENT

← MILL EXISTING PAVEMENT TO PROVIDE 3-FOOT LONG OVERLAP FOR EACH LIFT OF PAVEMENT

SECTION VIEW

NOTES:

1. PRIOR TO PLACING NEW PAVEMENT, ASPHALT COLD JOINTS MUST BE SAWCUT TO A STRAIGHT LINE, CREATING A SMOOTH, SOUND EDGE FOR JOINING NEW PAVEMENT



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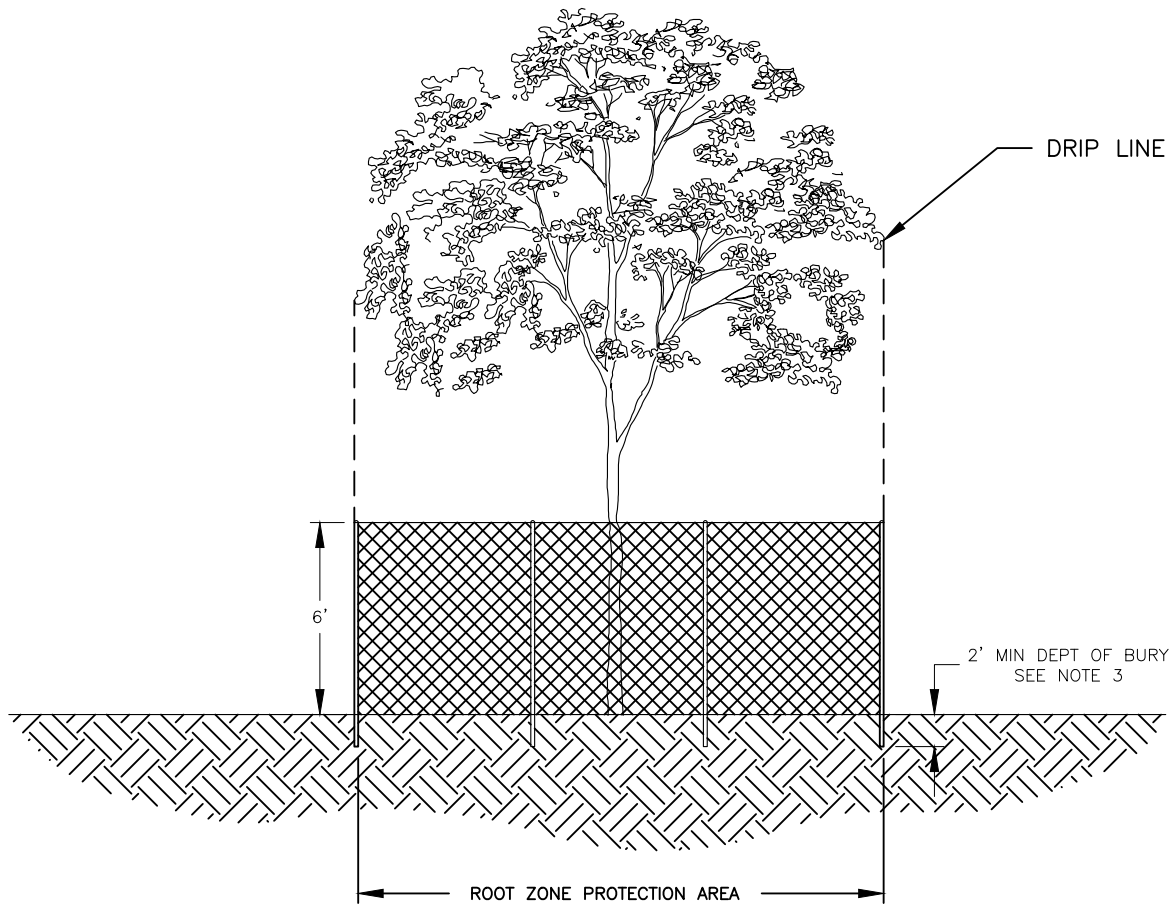
Asphalt Concrete Pavement Placement

DRAWING NO.

523

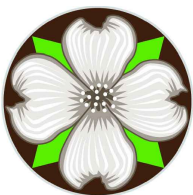
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1	NEW DRAWING	08/19	TAP



NOTES

1. FENCE MUST BE 6 FEET IN HEIGHT AND SET AT THE TREE DRIP LINE.
2. FENCE MATERIALS TO CONSIST OF 2" MESH CHAIN LINKS SECURED TO A MINIMUM 1-1/2" DIA. STEEL OR ALUMINUM POST, OR APPROVED ALTERNATE.
3. POST TO BE SET TO A DEPTH OF NO LESS THAN 2 FEET IN NATIVE SOIL. AVOID DAMAGING TREE ROOTS WHEN SETTING POSTS.
4. TREE PROTECTION FENCING MUST BE INSTALLED, INSPECTED AND APPROVED BY THE CITY'S AUTHORIZED REPRESENTATIVE PRIOR TO ANY EROSION CONTROL FENCING BEING INSTALLED OR ANY GRADING ACTIVITIES OCCUR.
5. FENCE MUST REMAIN IN PLACE UNTIL THE COMPLETION OF CONSTRUCTION ACTIVITIES. MOVEMENT OR REMOVAL OF FENCE REQUIRES APPROVAL BY CITY'S AUTHORIZED REPRESENTATIVE.
6. ENCROACHMENT SHALL BE NO CLOSER THAN HALF OF THE REQUIRED ROOT ZONE PROTECTION RADIUS.
7. ENCROACHMENT NOT TO ENCROACH ON MORE THAN 25% OF THE ROOT ZONE PROTECTION AREA ZONE.
8. SIGN SHALL BE PLACED ON FENCE NOTING THE FENCE IS TO DELINEATE THE TREE ROOT ZONE PROTECTION AREA.
9. TREE PROTECTION ZONE SIGNAGE MUST BE POSTED ON FENCE AND INCLUDE A POINT OF CONTACT WITH NAME/NUMBER IN CASE ENTRY INTO AREA IS NEEDED. SIGNAGE MUST BE HIGHLY VISIBLE AND STURDY TO DISCOURAGE ENTRY INTO THE AREA.



CITY OF MILWAUKIE, OREGON – PUBLIC WORKS DEPT.

Tree Protection Fencing

DRAWING NO.

524

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1

NEW DRAWING

08/19

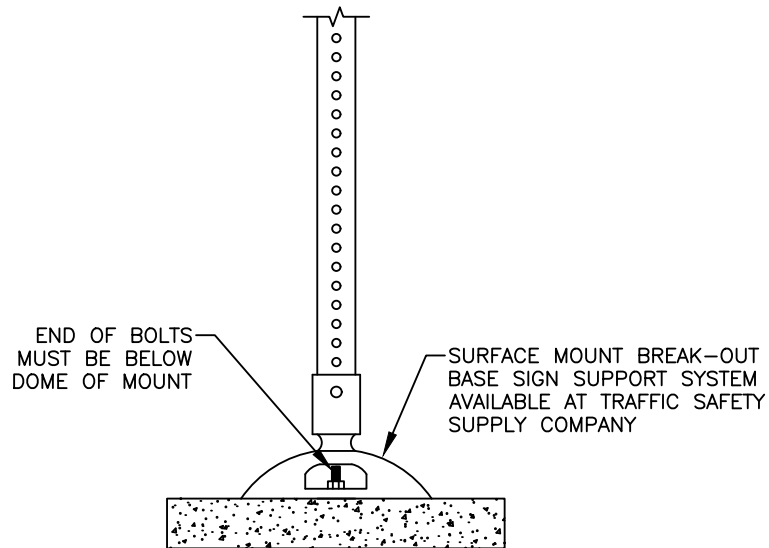
TAP

2

NOTE CHANGED

10/23

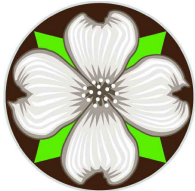
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CONCRETE SURFACE MOUNT

NOTES:

1. SIGN COMBINATION AND MINIMUM SIGN MOUNTING HEIGHT SHALL DETERMINE POST LENGTH. A 10' (MIN.) POST SHALL BE USED. A COMBINATION OF SIGNS GREATER THAN 36" IN HEIGHT SHALL REQUIRE A 12' (MIN.) POST.
2. SIGN POST SIZING SHALL BE BASED ON OREGON STANDARD DRAWING TM682 (85 MPH SQUARE TUBE SIGN SUPPORT SIZING CHART). THE MINIMUM POST SIZE SHALL BE 2" X 2" 12 GA. SQUARE TUBE. IF THE SIGN PANEL AREA IS GREATER THAN THAT ALLOWED BY A 2" X 2" POST, THEN A 2 1/2" X 2 1/2" 12 GA. POST SHALL BE USED. IF A LARGER SUPPORT IS REQUIRED, THEN WOOD SIGN SUPPORTS SHALL BE USED AS PER OREGON STANDARD DRAWING TM670.
3. NYLON SPACERS SHALL BE USED TO PREVENT CONTACT BETWEEN GLAVANIZED STEEL AND ALUMINUM MATERIAL SURFACES.



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Steel Street Sign Mounting

DRAWING NO.

525

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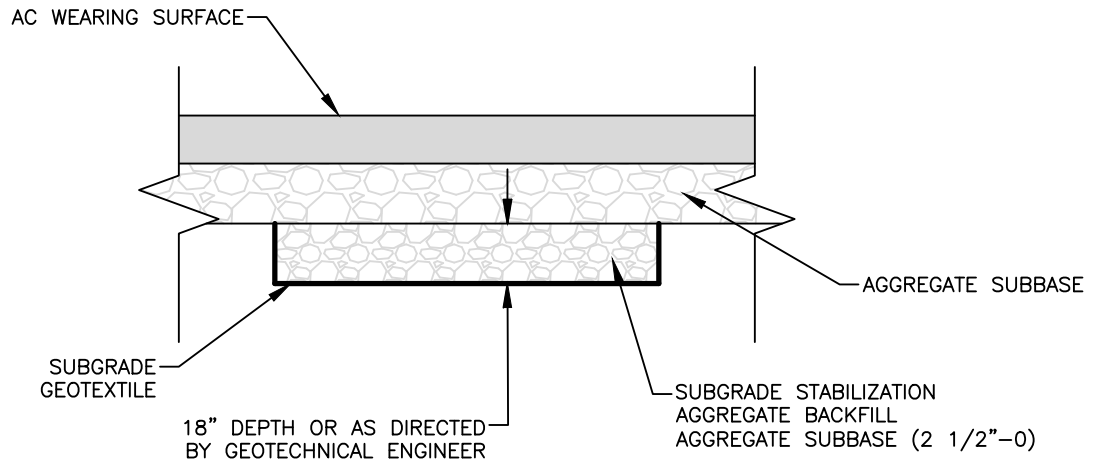
Jennifer Darby

03/2024

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SUBGRADE STABILIZATION

NOTES:

1. FOR SURFACING DETAILS NOT SHOWN, SEE TYPICAL SECTIONS.
2. LOCATIONS AS DIRECTED



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Subgrade Stabilization

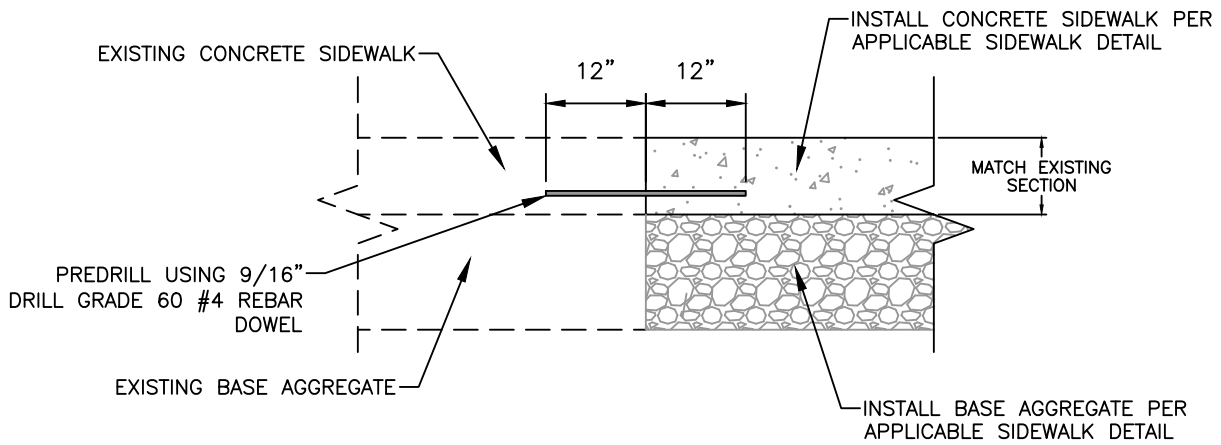
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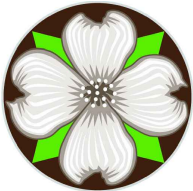
NO.	REVISIONS	DATE	BY
1	NEW DRAWING	10/2023	HGB



SIDEWALK REPLACEMENT/REPAIR

NOTES:

1. EXISTING SLAB SHALL BE DRILLED USING APPROPRIATE MASONRY DRILL BIT.
2. DOWELS SHALL BE PLACED AT 24" O.C.



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PCC SIDEWALK REPLACEMENT/REPAIR

DRAWING NO.

527

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