Proposed Redline Markups

for the

2023 City of Seattle Standard Plans for Municipal Construction

The Standard Plans shown here depict the proposed edits of the 2020 Standard Plans.

REV DATE: AUG 2022

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	RDWY	Roadway
	RECONN	Reconnect
	RED	Reducer
	REF	Refer/Reference
	REINF	Reinforce/Reinforcement
	RELOC	Relocate
	REM	Remove
	REPL	Replace
	REQD	Required
	RET	Retire/Retired
Ī	RET WALL	Retaining Wall
	RF	Rock Facing
	RGS	Rigid Galvanized Steel
	RIT	Round Inlet Top
	RJ	Restrained Joint
-	RLWY	Railway
	RP	Rock Pocket
	RPBA	Reduced Pressure Backflow Assembly
	RR	Railroad
	RS	Rigid Steel
	RT	Right
	S	South
	SB	Sandbox
	SCH	Scheduleadded
	SCI	Seattle City Light
	SDCI	Seattle Department of Construction & Inspections
	SDS	Street Designation Sign
	SD	Service Drain
	SDOT	Seattle Department of Transportation
	SEC	Section
	SHLD	Shield
	SHT	Sheet
	SL	Sleeve, Street Light

\$	Survey Line		
SLHH	Street Light Handhole		
SNS	Street Name Sign		
	-		
SP	Strain Pole		
SPCS	Spaces		
SPEC	Specifications		
SPR	Seattle Parks & Recreation		
SPU	Seattle Public Utilities		
SQ	Square		
SS	Stainless Steel, Side Sewer-Combined		
SSD	Sub-Surface Drain		
SSS	Side Sewer-Sanitary		
SSTONE	Sandstone		
ST	Street		
STA	Station		
STD	Standard		
STL	Steel		
STL P	Steel Pipe		
STM LOG	Steam Log		
STRUCT	Structure/Structural		
SW	Sidewalk		
SY	Square Yard		
SYS	System		
Т	Tee		
ТВ	Test Boring		
TC	Traffic Control		
TCB	Telephone Cable		
TCD	Telephone Conduit		
ТСНН	Traffic Control Handhole		
TD	Telephone Duct		
TEB	Telephone Enclosure Box		
TEL	Telephone		
TEMP	Temporary		

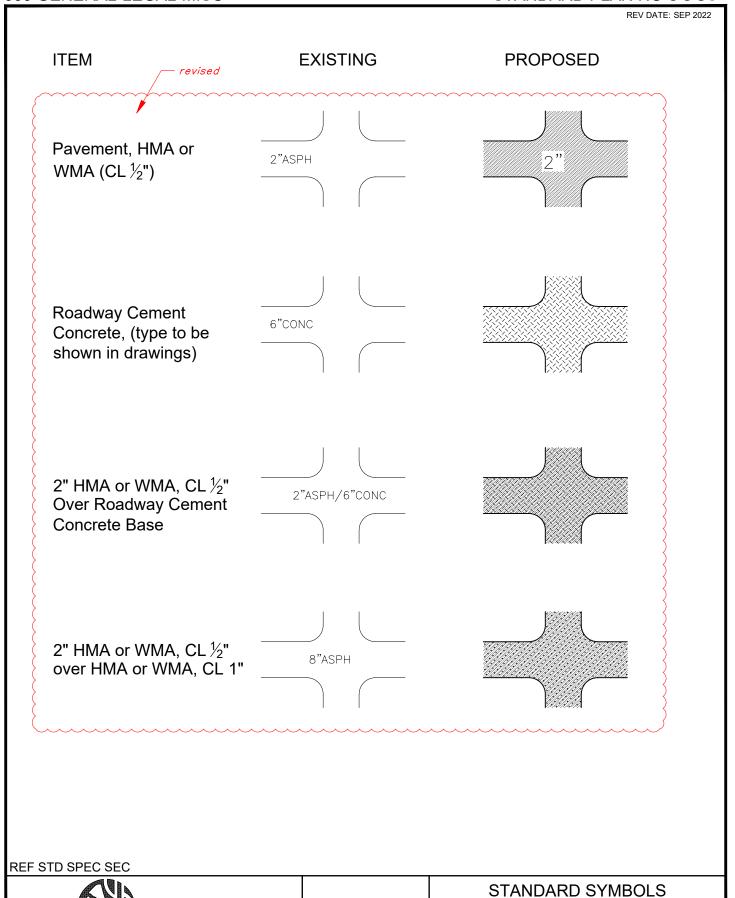
REF STD SPEC SEC 1-01.2



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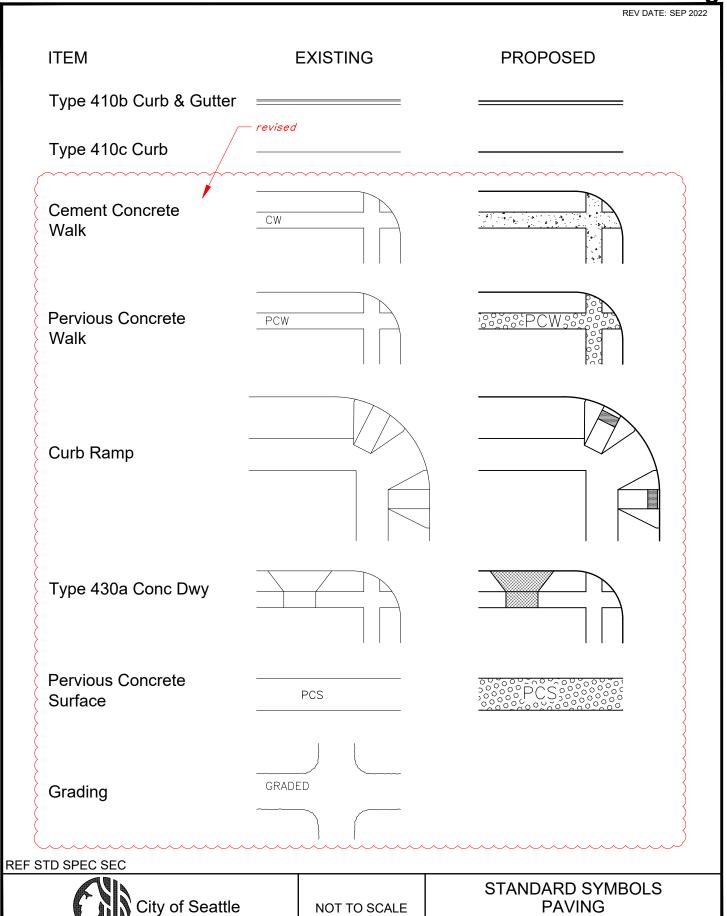
ABBREVIATIONS

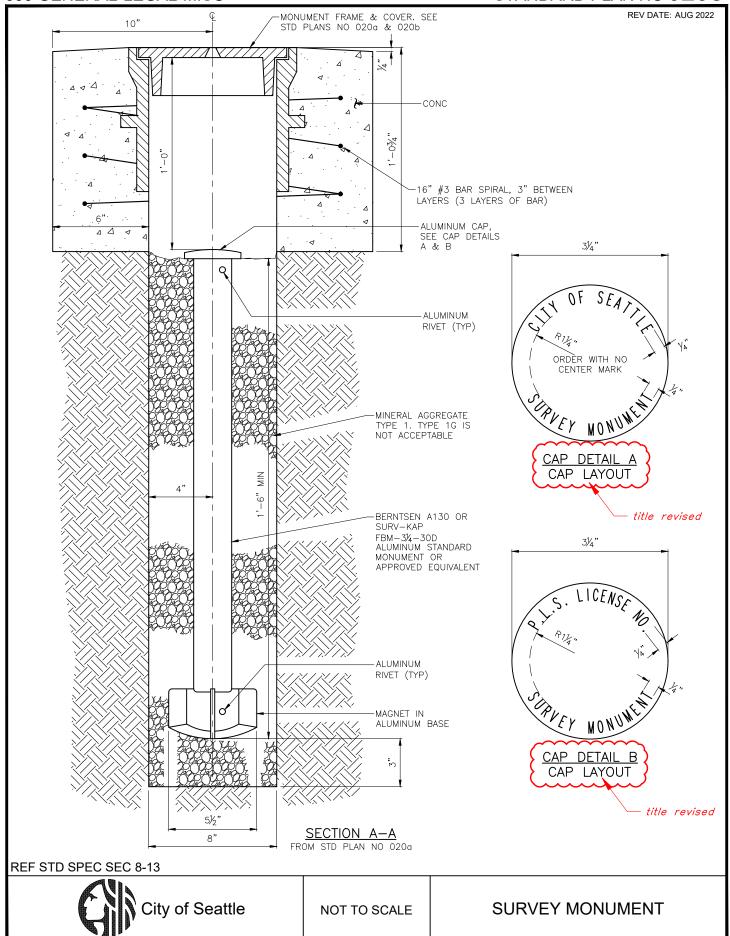
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City of Seattle





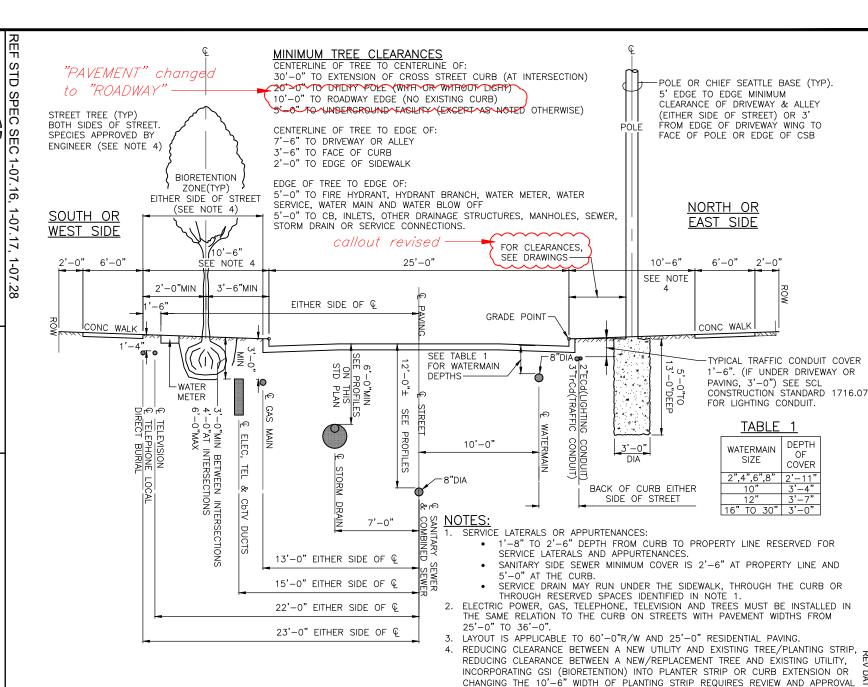
OF THE ENGINEER AND MAY REQUIRE ADDITIONAL MITIGATING MEASURES.

5. BACKFILL OVER ALL UTILITY INSTALLATIONS BETWEEN BACK OF CURB AND R/W AND

DEPTH EQUAL TO THE DEPTH OF THE ROOTBALL (NO CDF ALLOWED IN THIS ZONE).

WITHIN 5' OF CENTERLINE OF TREES MUST BE PLANTING SOIL FOR A MINIMUM





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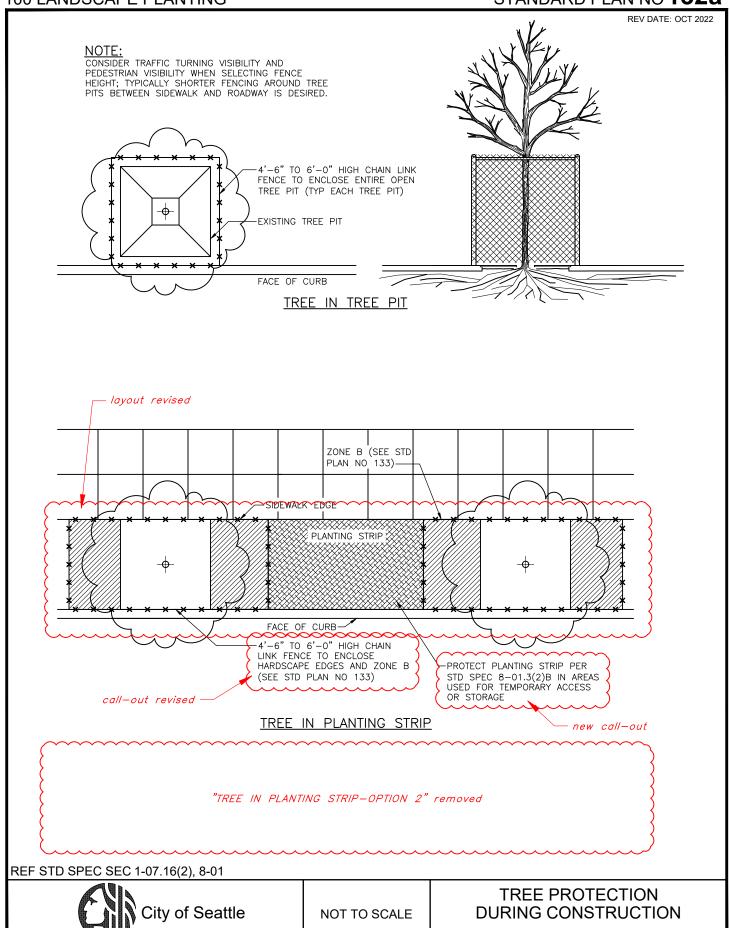
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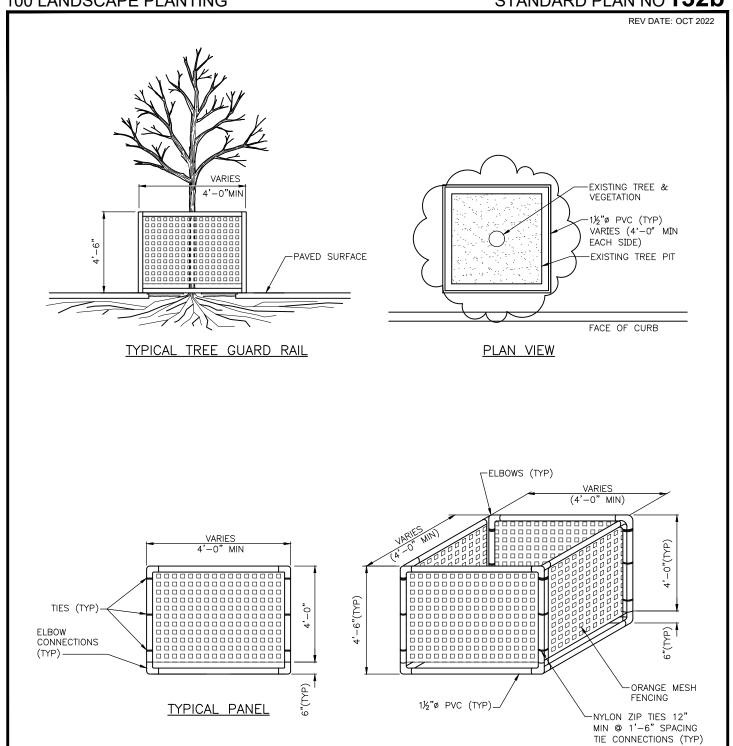
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Proposed 2023 Edition City of Seattle Standard Plans

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note 2 added

REUSABLE TEMPORARY PROTECTION FENCING USED TO PROTECT TREES IN TREE PITS MUST SURROUND THE ENTIRE UNPAVED TREE PIT AREA AND BE ANCHORED AND MAINTAINED IN A STABLE UPRIGHT CONDITION. SEE SECTION 8-01.3(2)BY

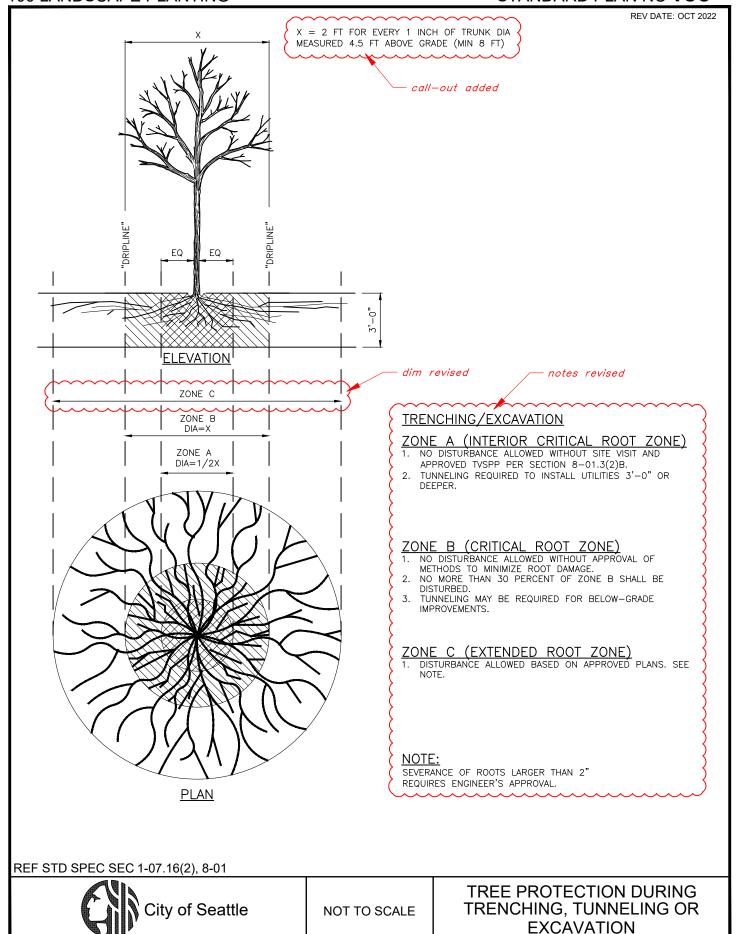
REUSABLE TEMPORARY PROTECTION FENCING USED ONLY FOR TREES IN TREE PITS AND ONLY FOR WORK LASTING 30 DAYS OR LESS. FOR TREES IN THE PLANTING STRIP AND WORK LASTING LONGER THAN 30 DAYS, SEE STD PLAN 132a.

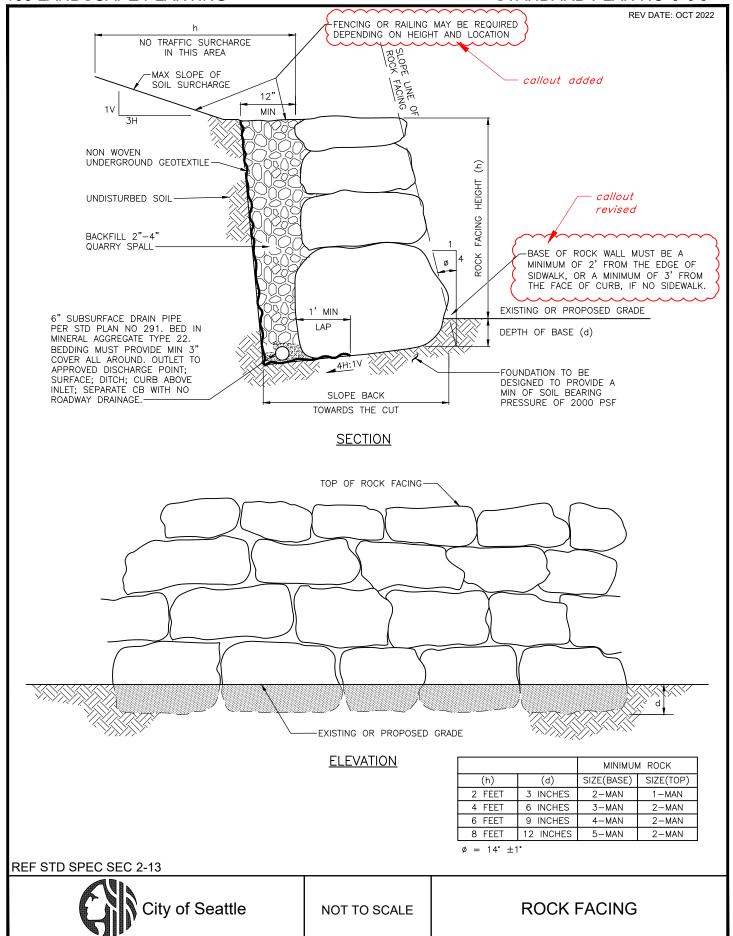
REF STD SPEC SEC 1-07.16(2), 8-01

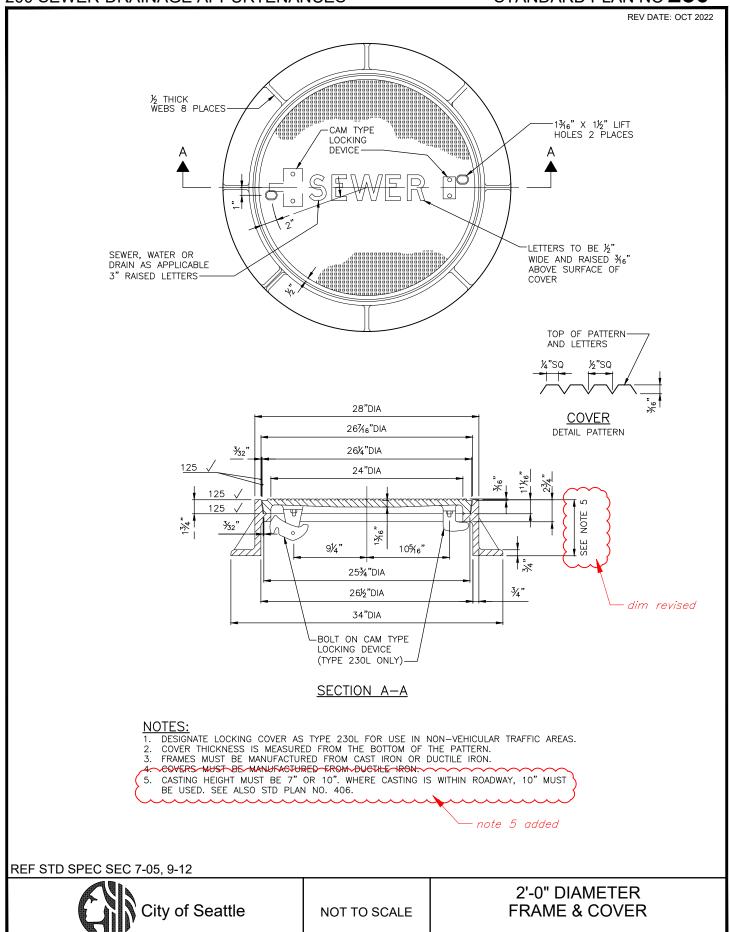


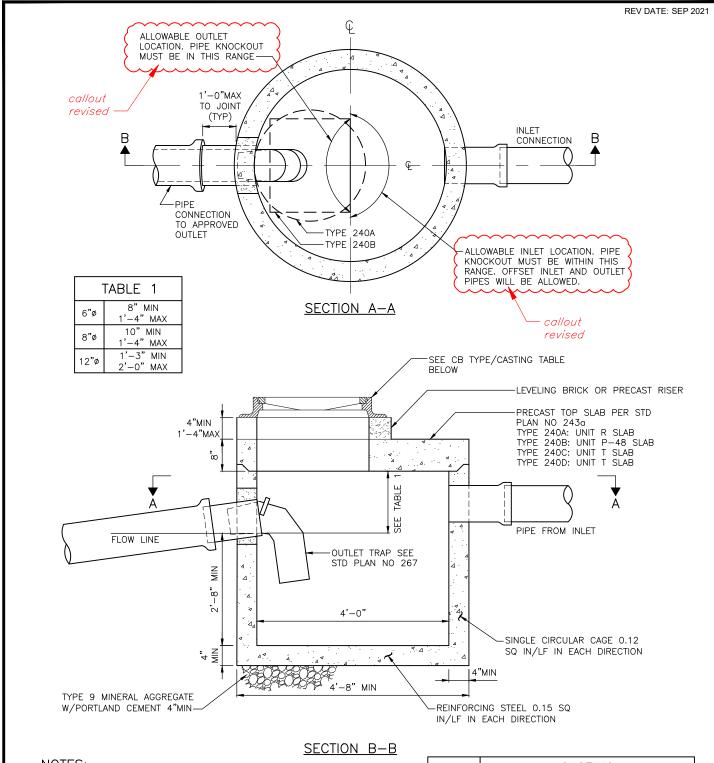
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REUSABLE TEMPORARY PROTECTION FENCE









NOTES:

- FRAME & GRATE OR FRAME & COVER MUST BE LOCATED OVER TRAP.
- INVERT OF INLET PIPE MUST BE 2"MIN ABOVE INVERT OF OUTLET PIPE.
- SEE STD PLAN 261 FOR ALLOWABLE OUTLET LOCATIONS.

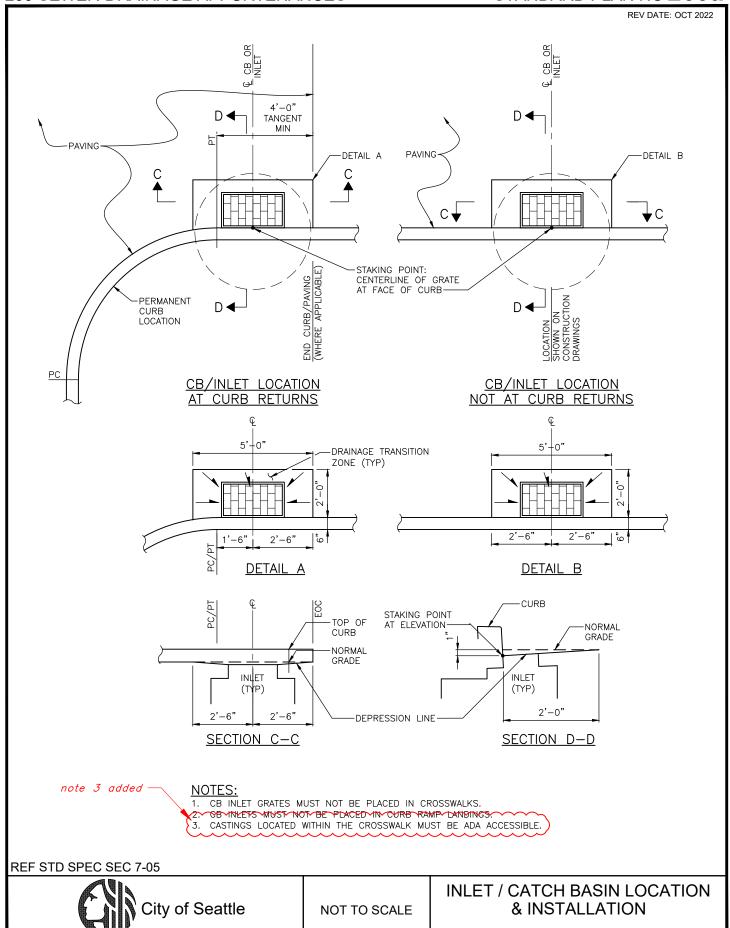
CB TYPE	CASTING			
	FRAME	COVER		
240A	PER STD PLAN 230	PER STD PLAN 230		
240B	PER STD PLAN 264	PER STD PLAN 264		
240C	PER STD PLAN 262	PER STD PLAN 265		
240D	PER STD PLAN 263A	PER STD PLAN 265		

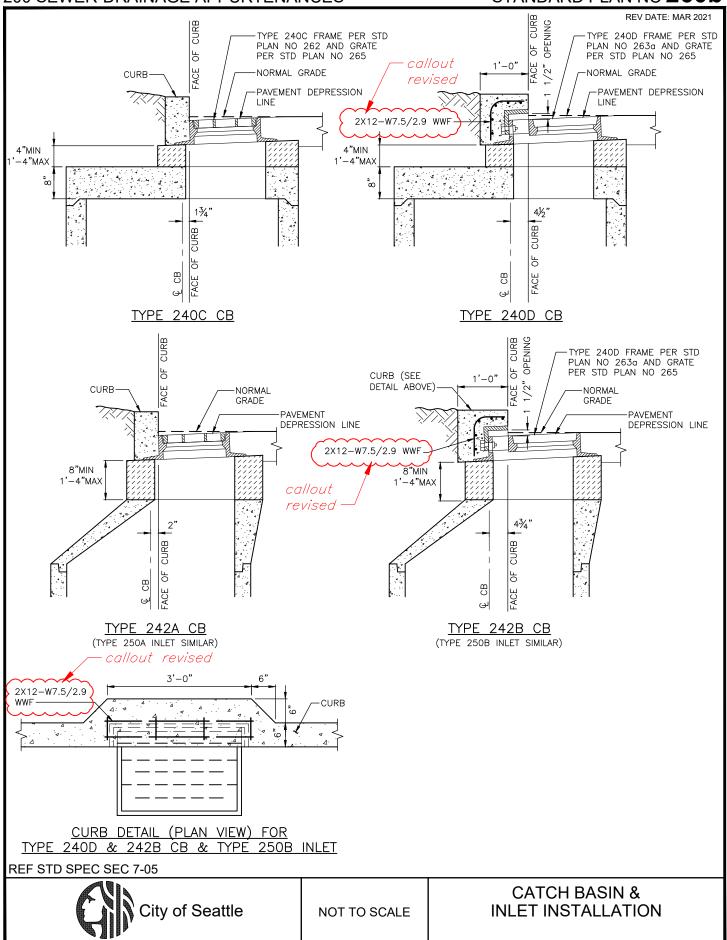
REF STD SPEC SEC 7-05

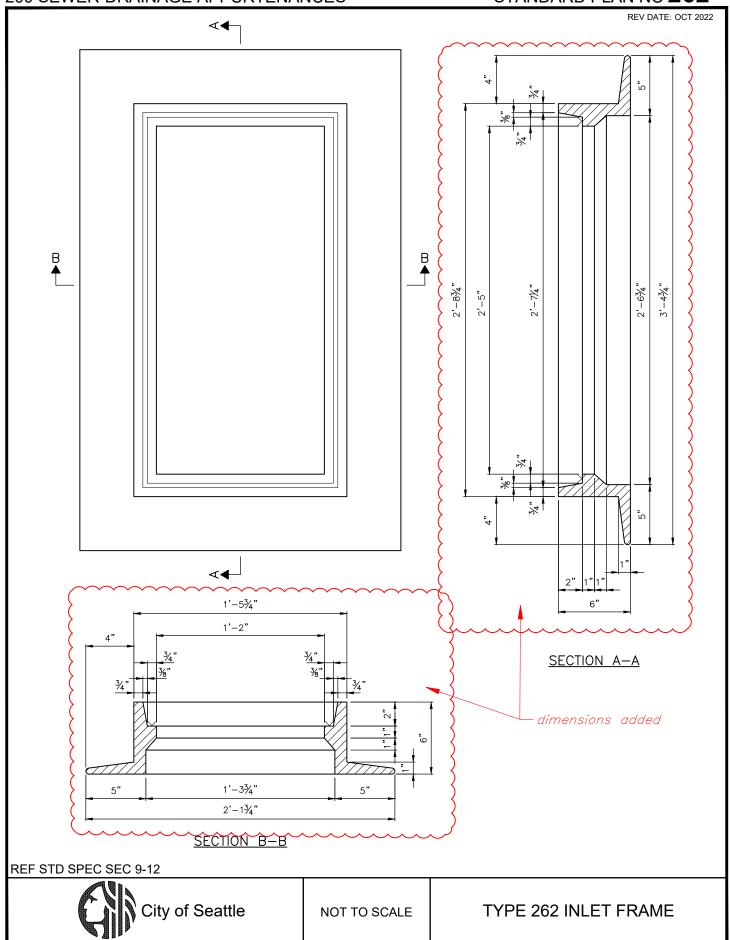


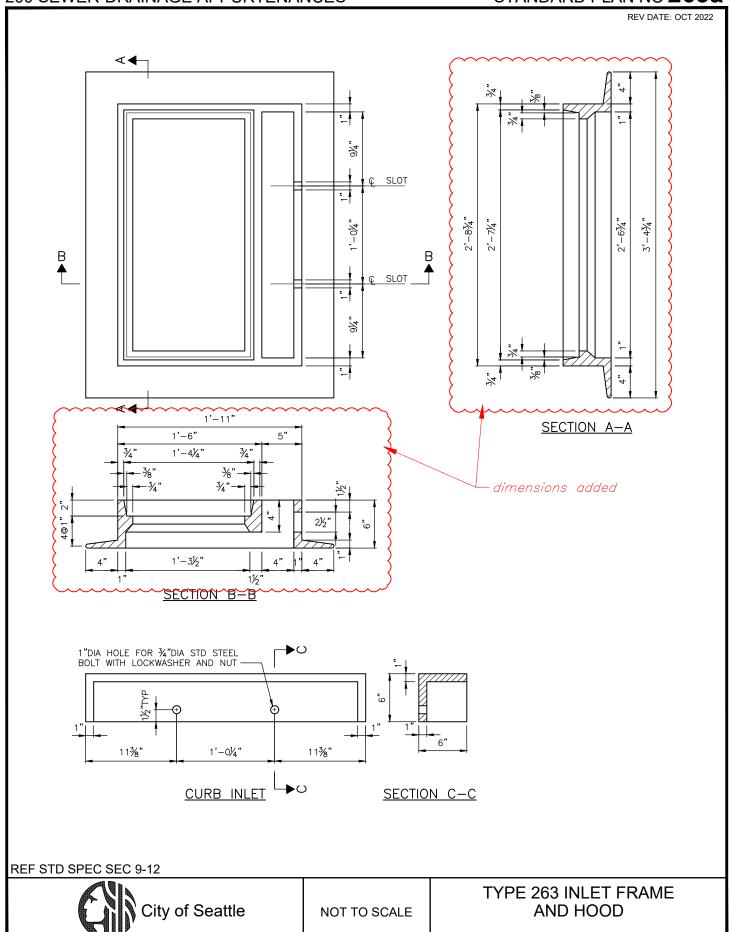
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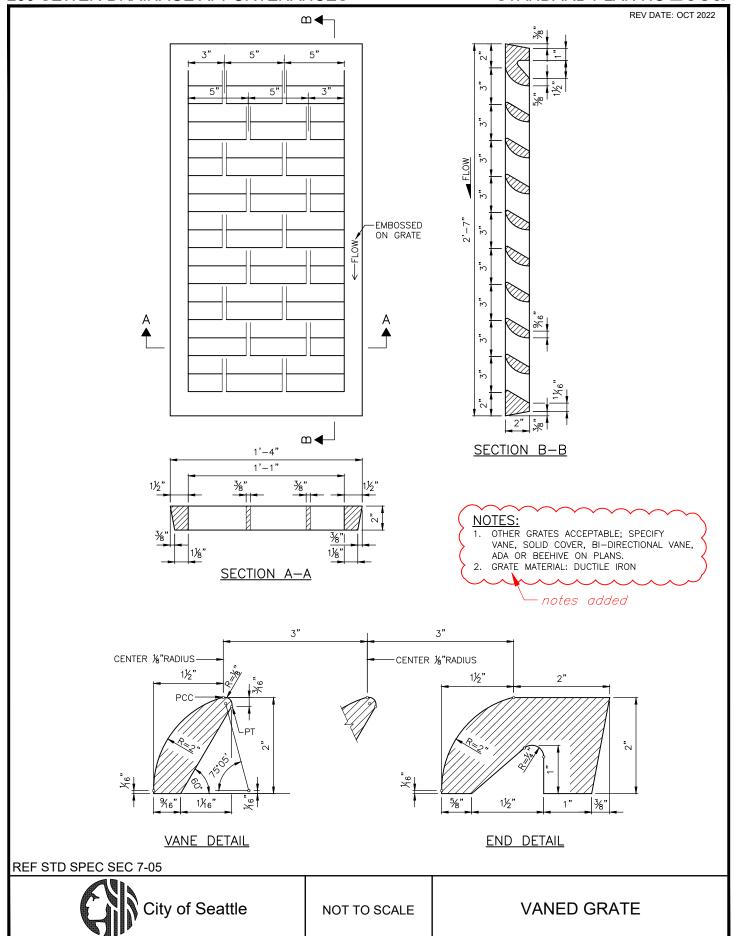
TYPE 240 CATCH BASIN

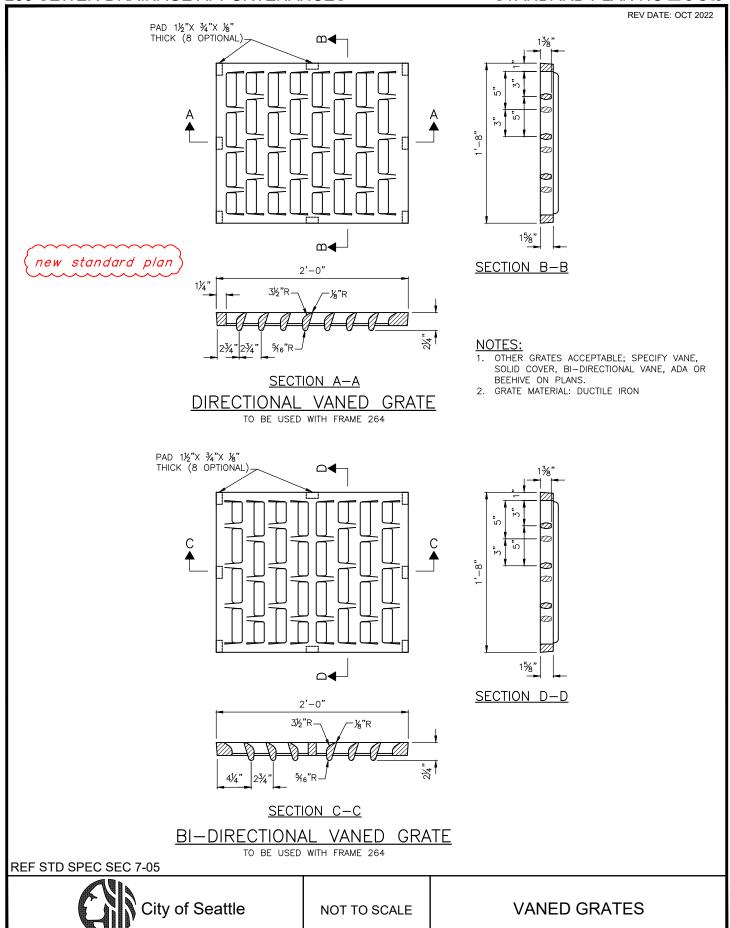




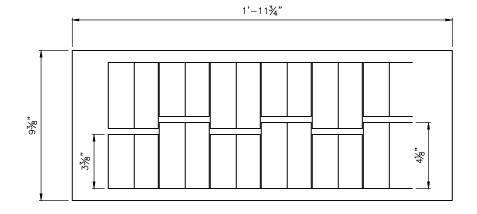


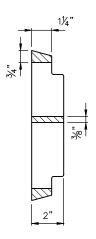


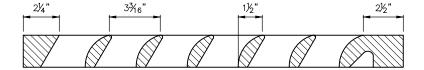












note 2 added -

NOTES:

- OREN AREA 100 SQUARE INCHES.

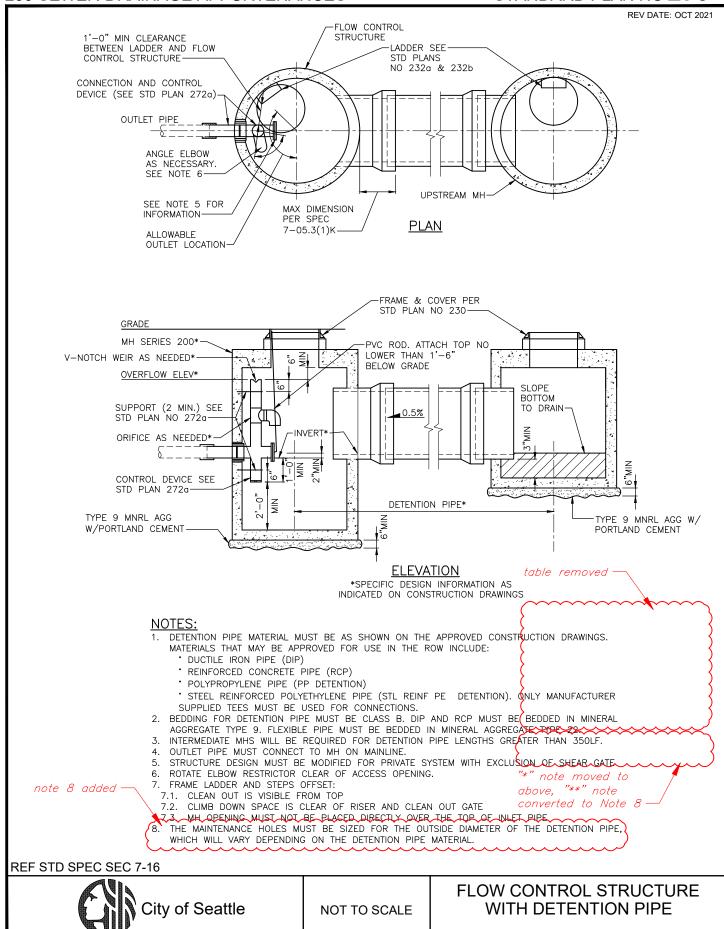
 1. OTHER GRATES ACCEPTABLE; SPECIFY VANE, SOLID COVER. BI-DIRECTIONAL VANE, ADA OR BEEHIVE ON PLANS. SEE STD PLAN NO 265 FOR VANE AND END DETAIL
- 4. STD PLAN NO 266 DIMENSIONS GOVERN ON END DETAIL.
 5. REPLACEMENT VANED GRATE FOR TYPE 164 INLET FRAMES.

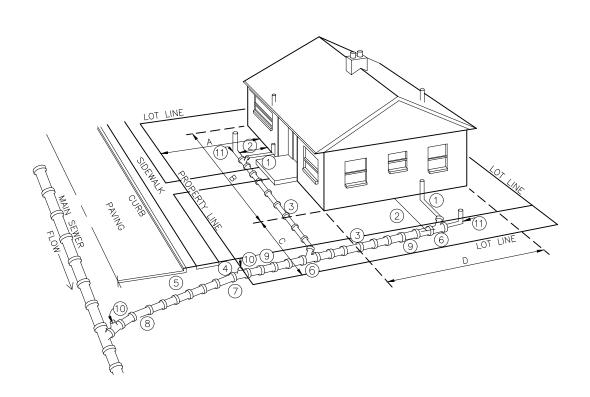
REF STD SPEC SEC 7-20.3(6), 9-12



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TYPE 266 REPLACEMENT **VANED GRATE**





- ALL SANITARY PLUMBING OUTLETS MUST BE CONNECTED TO THE SANITARY SEWER OR COMBINED SEWER.
- 2'-6"MIN DISTANCE FROM HOUSE, EXCEPT FOR SOIL PIPE CONNECTION.
- 3. 1'-6"MIN COVER OF PIPE.
- 4. 2'-6"MIN COVER AT PROPERTY LINE.
- 5. 5'-0"MIN COVER AT CURB LINE.
- 6. LAY PIPE IN STRAIGHT LINE BETWEEN BENDS. MAKE ALL CHANGES IN GRADE OR LINE WITH BENDS OR WYES.
 7. STANDARD 4" TO 6" INCREASER.
- 9. 4" SEWER PIPE: MIN SIZE IN STREET, AND ELSEWHERE AS DIRECTED. 2% MIN GRADE, 100% MAX.
 9. 4" SEWER PIPE: MIN SIZE ON PROPERTY. 2% MIN GRADE, 100% (45*) MAX.
 10. TEST "T" WITH PLUG

- SIDE SEWER.
- 12. CONSTRUCTION IN STREET MUST BE DONE BY A REGISTERED SIDE SEWER CONTRACTOR. 13. ALL CONSTRUCTION MUST BE IN ACCORDANCE WITH THE CURRENT SIDE SEWER ORDINANCE.

<u>DIMENSIONS:</u>

- A = FRONT YARD SETBACK
 B = LENGTH OF HOUSE
 C = SIDE YARD SETBACK
 D = WIDTH OF HOUSE

notes added -

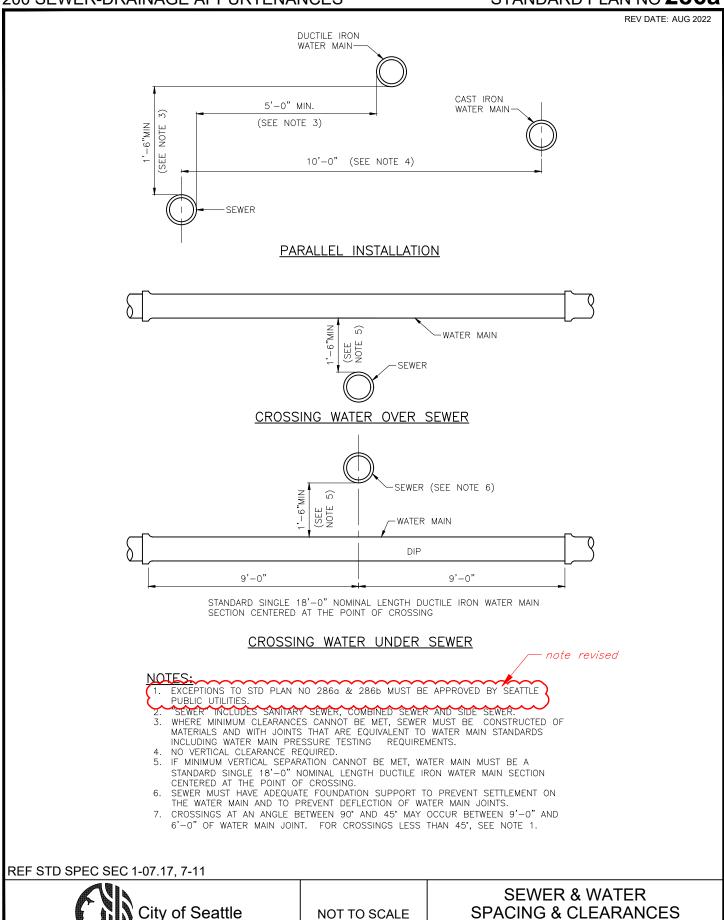
dimensions added

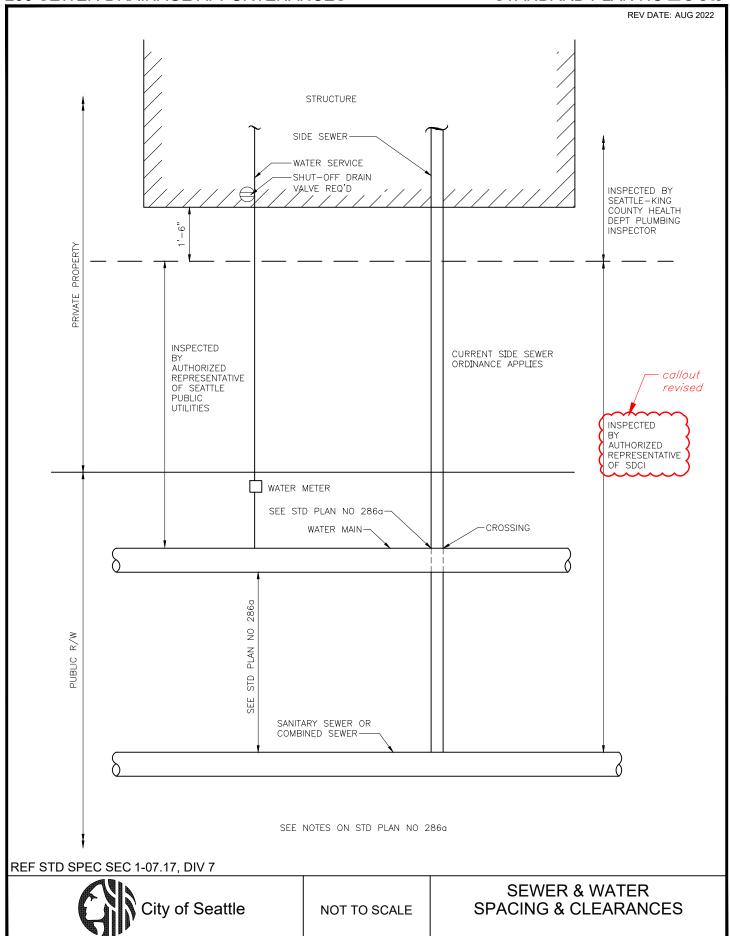
REF STD SPEC SEC 7-18

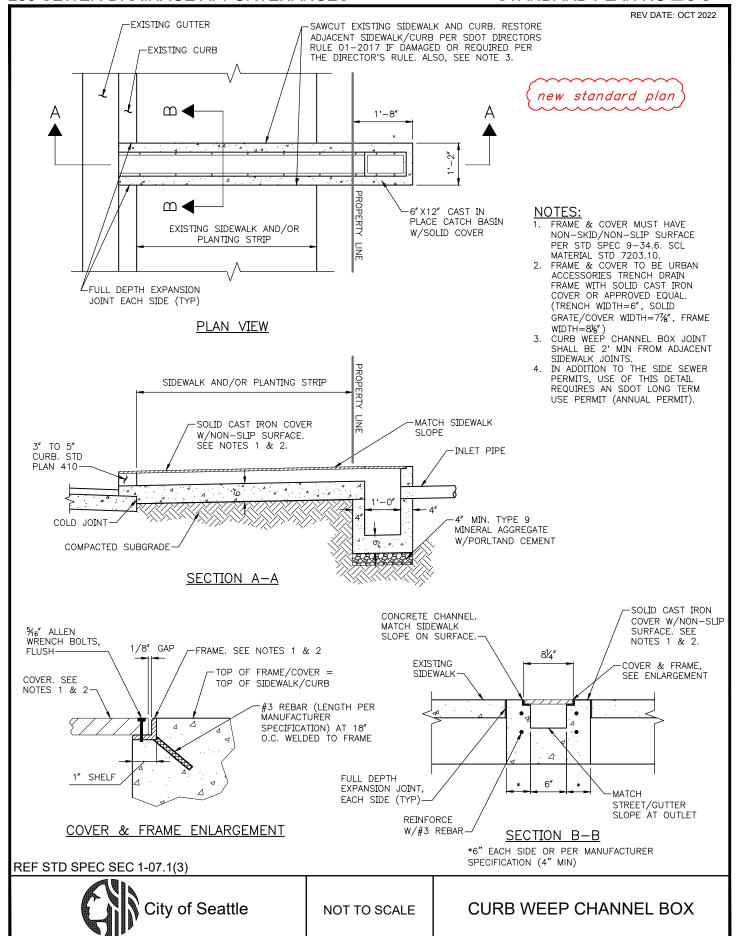


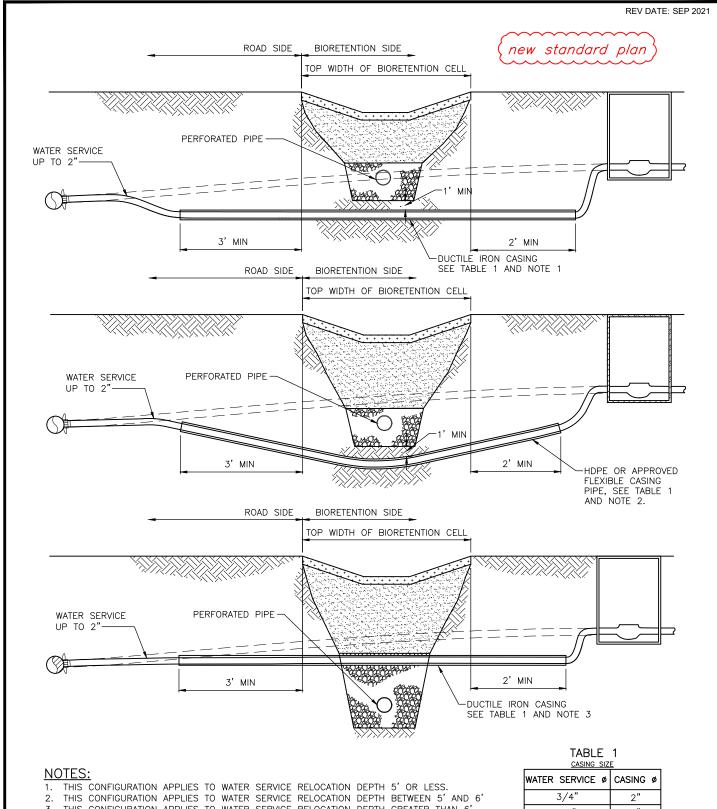
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SIDE SEWER INSTALLATION









- THIS CONFIGURATION APPLIES TO WATER SERVICE RELOCATION DEPTH GREATER THAN 6' FOR BIORETENTION CELLS WITH LINERS, ANY PENETRATION OF THE LINER MUST BE SEALED
- THIS CONFIGURATION ALSO APPLIES TO OTHER UTILITIES UNLESS THE OTHER UTILITY HAS MORE

STRINGENT CLEARANCE REQUIREMENTS.

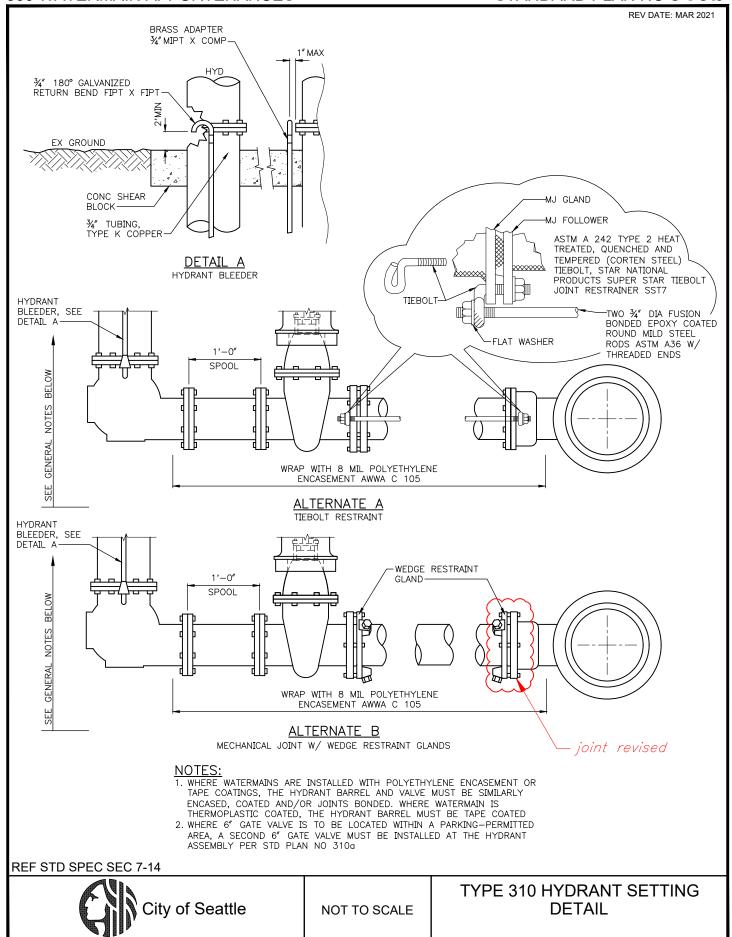
1.5"

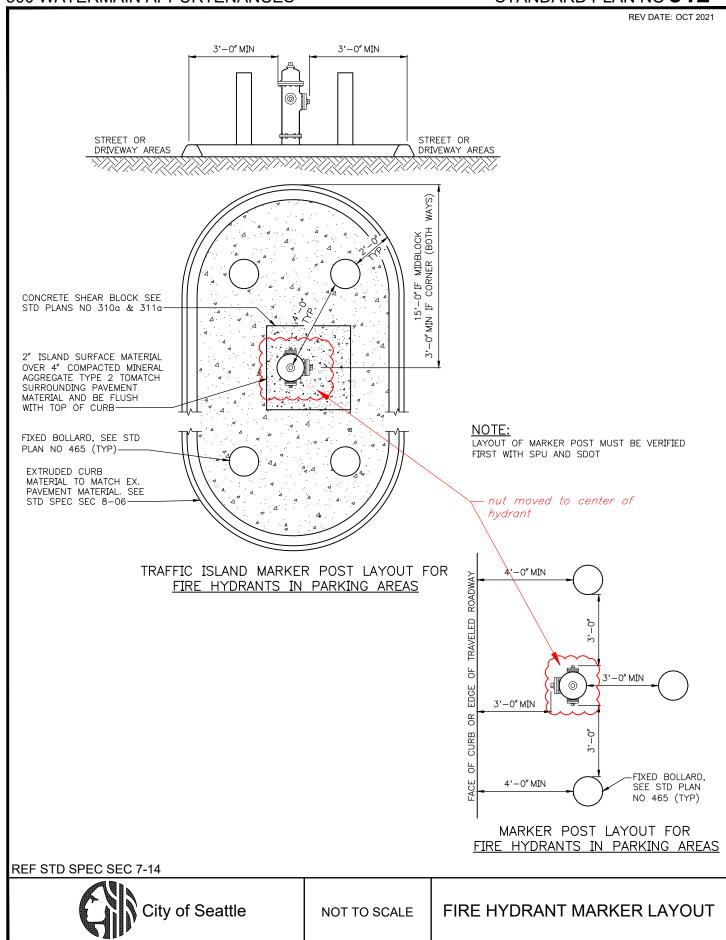
REF STD SPEC SEC 1-07.17

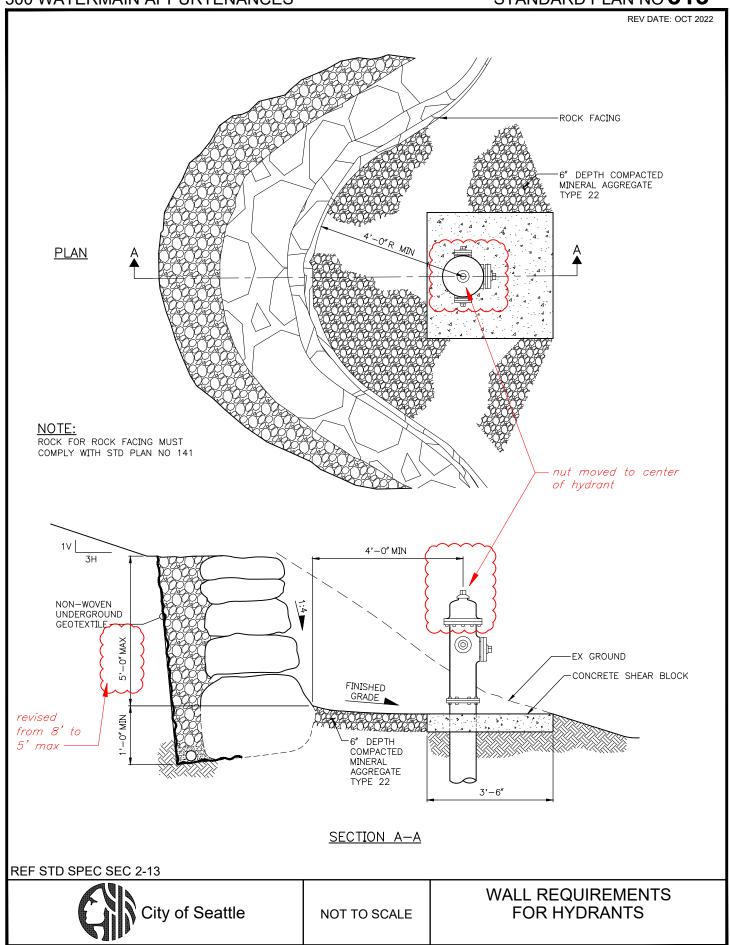


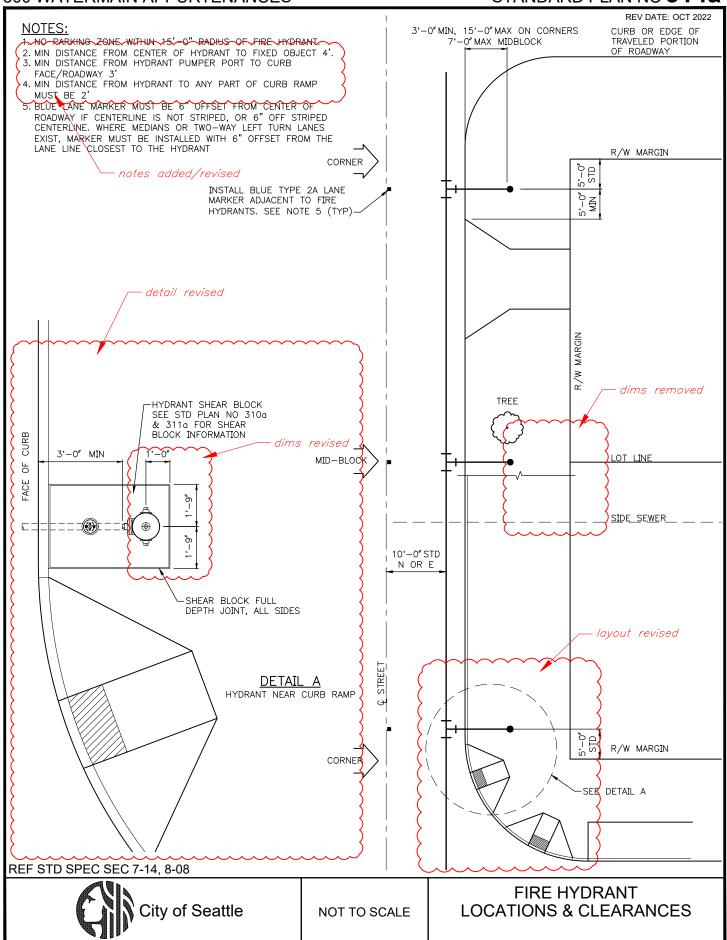
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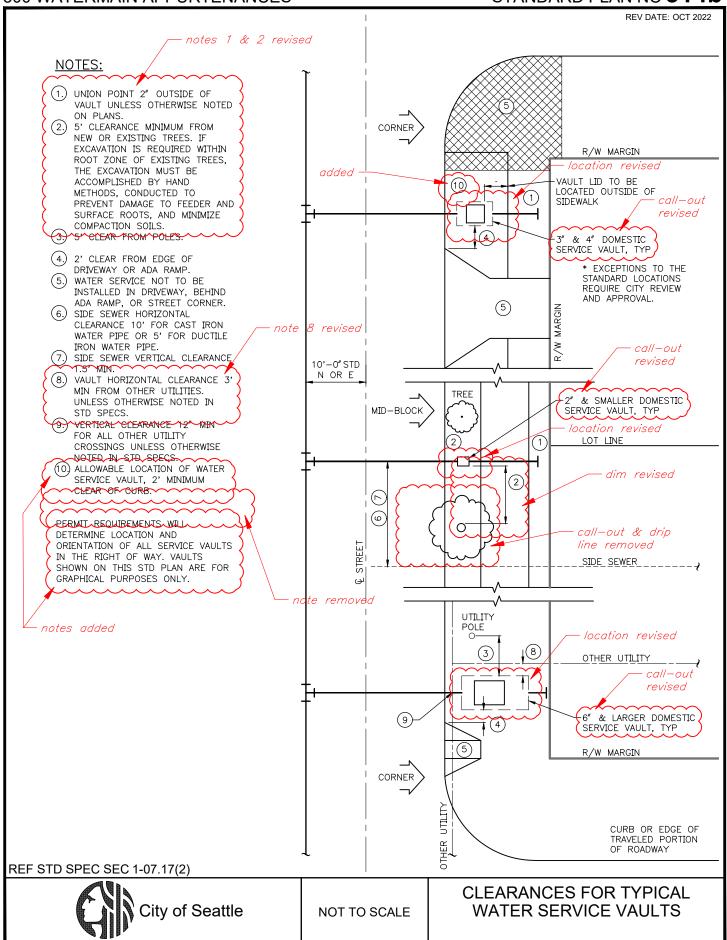
WATER SERVICE RELOCATION FOR UP TO 2" SERVICE PIPE THROUGH BIORETENTION

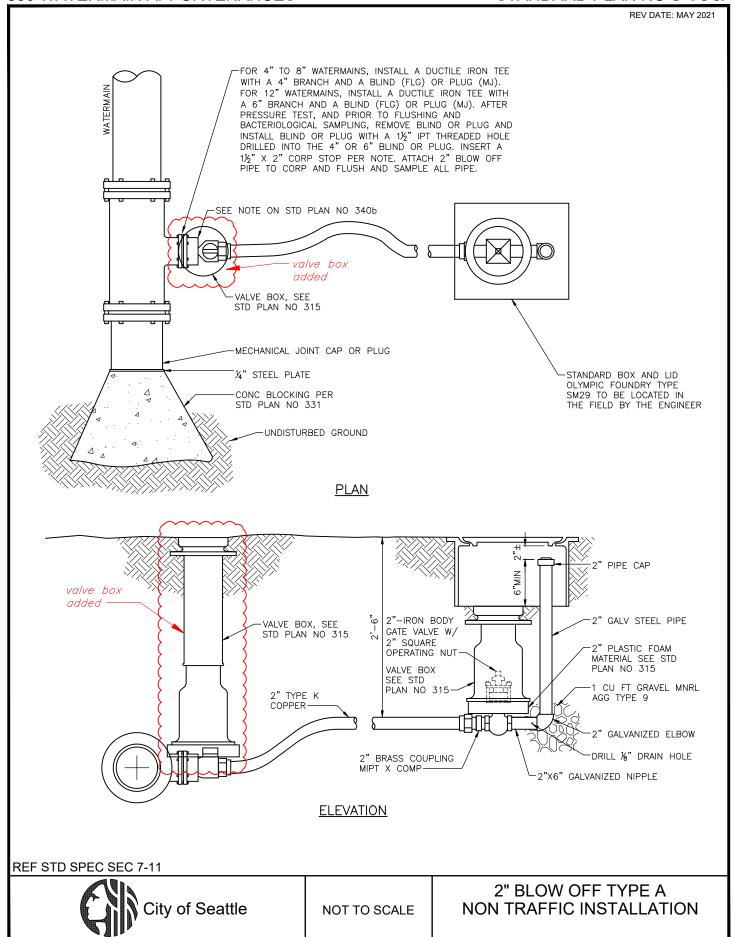


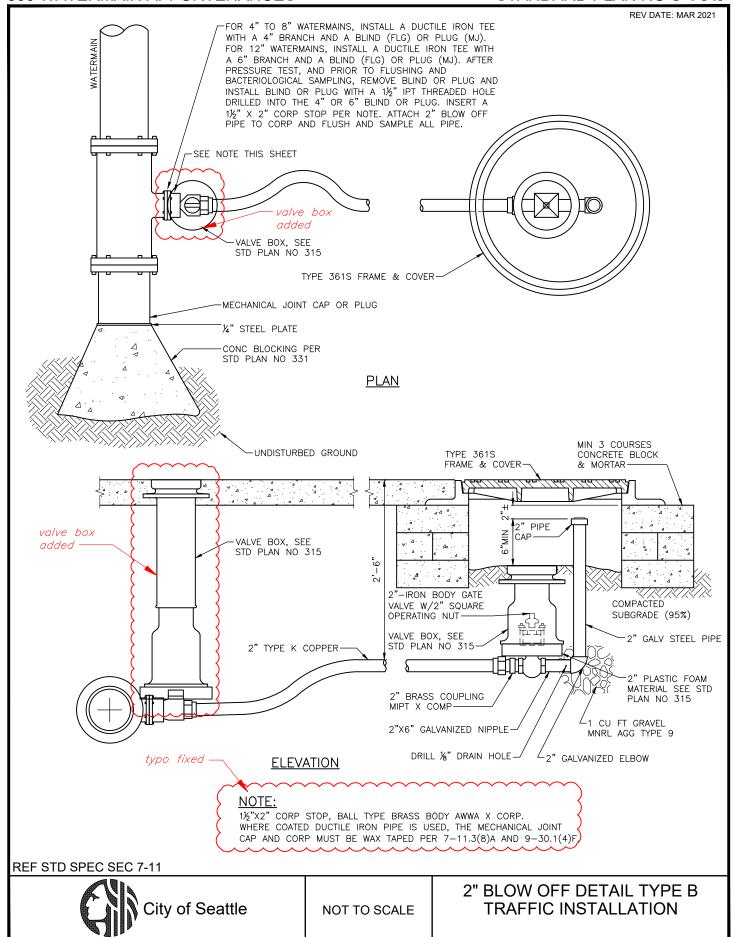


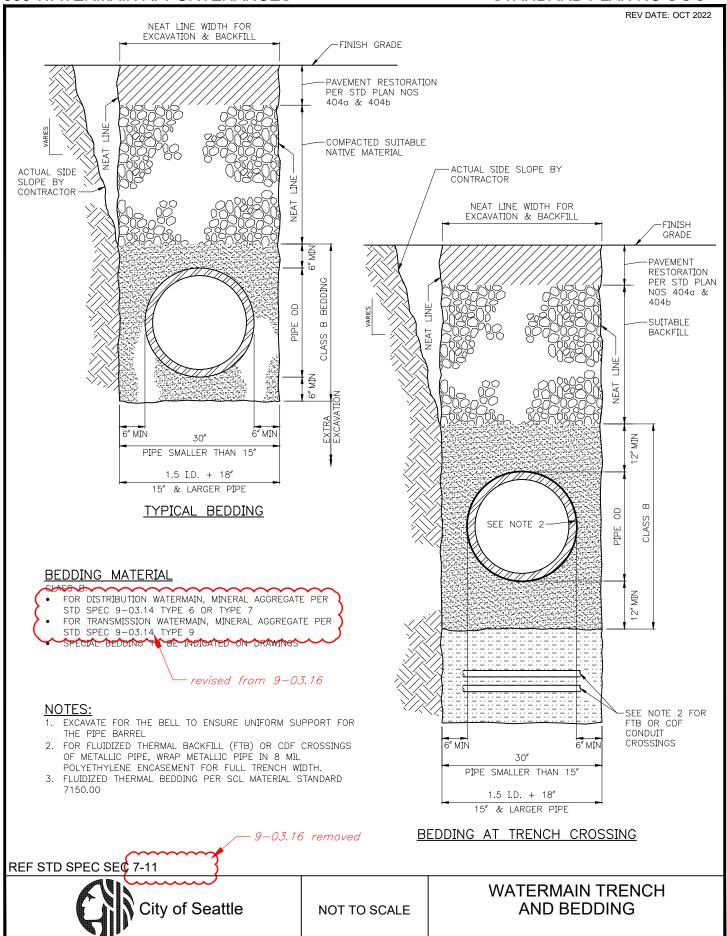


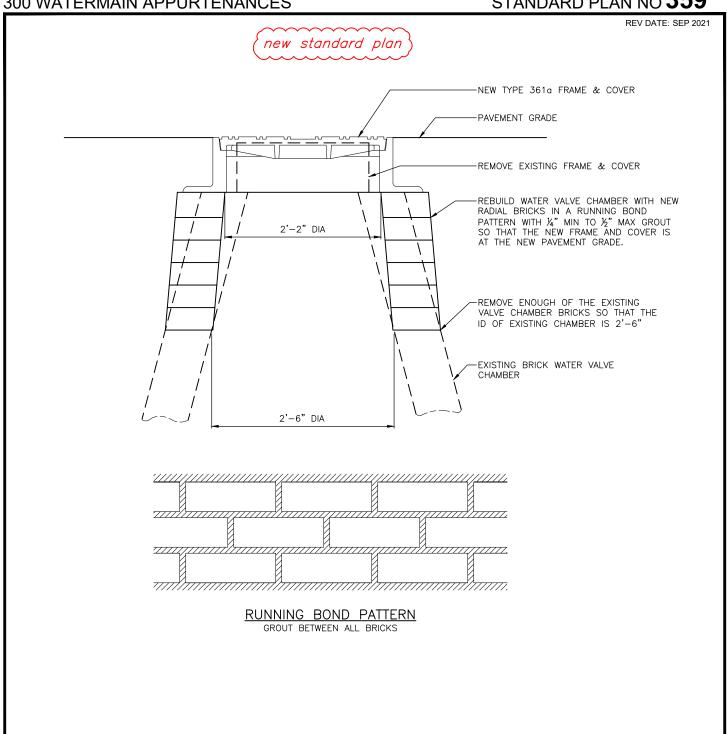










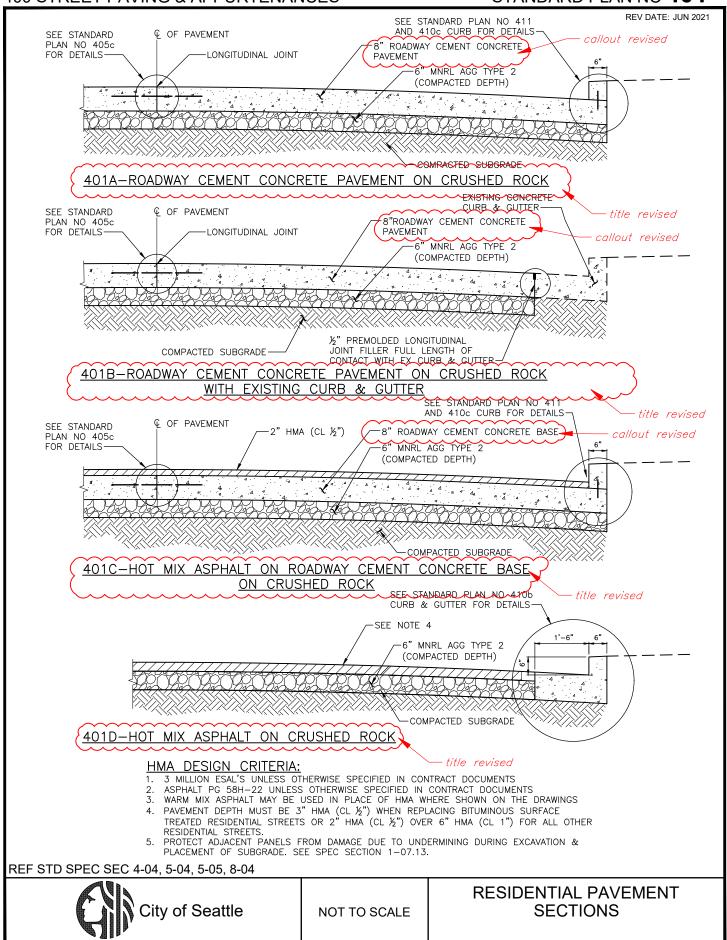


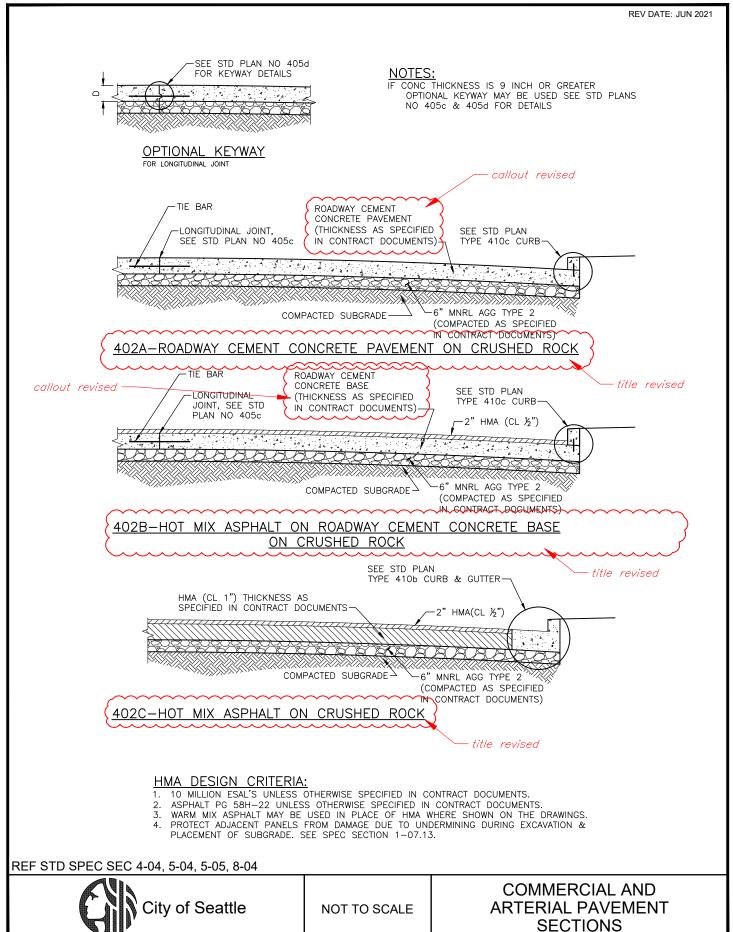
REF STD SPEC SEC 7-20

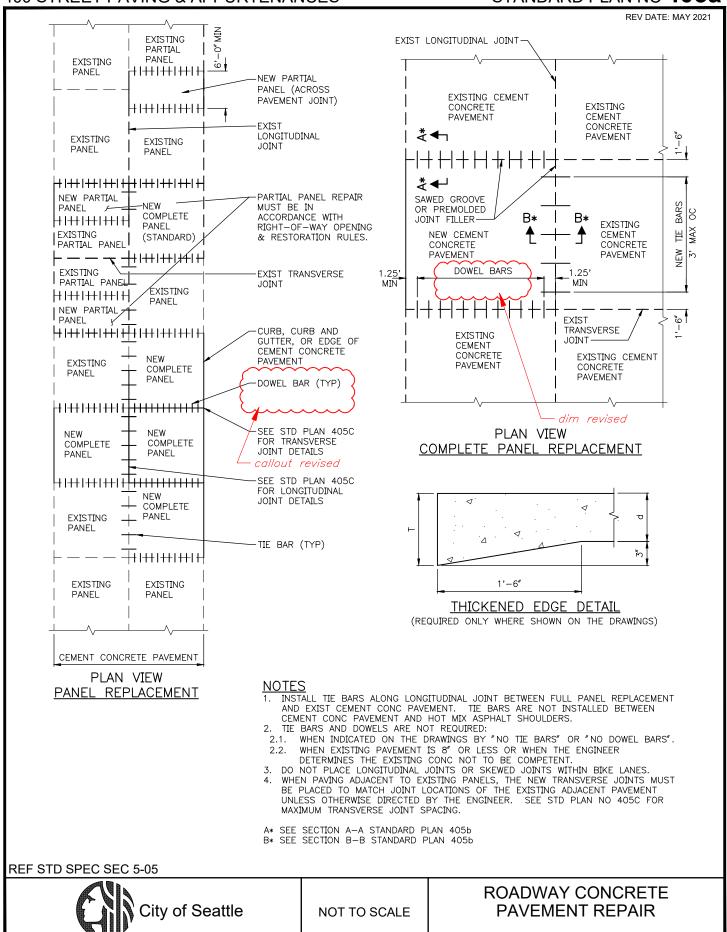


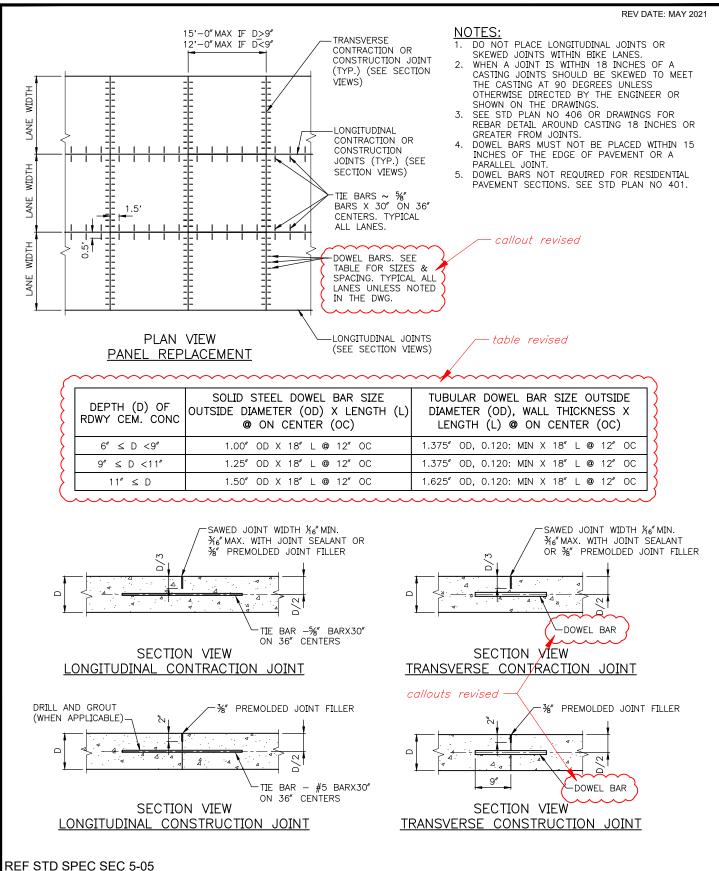
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REBUILD EXISTING BRICK WATER VALVE CHAMBER



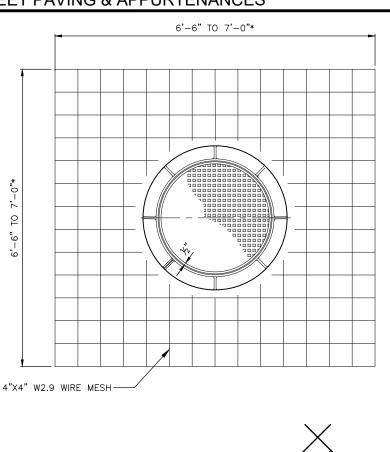






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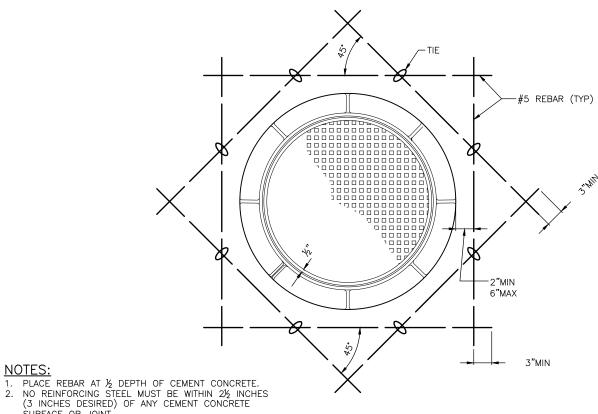
ROADWAY CONCRETE PAVEMENT JOINTS



- NOTES:

 1. PLACE WIRE MESH AT ½ DEPTH OF CEMENT CONCRETE.
- *THE DIMENSIONS OF THE MESH MUST BE ADJUSTED WHERE PAVEMENT JOINTS ARE ENCOUNTERED.
- NO REINFORCING STEEL MUST BE WITHIN 2½ INCHES (3 INCHES DESIRED) OF ANY CEMENT CONCRETE SURFACE OR JOINT.

– note 3 revised



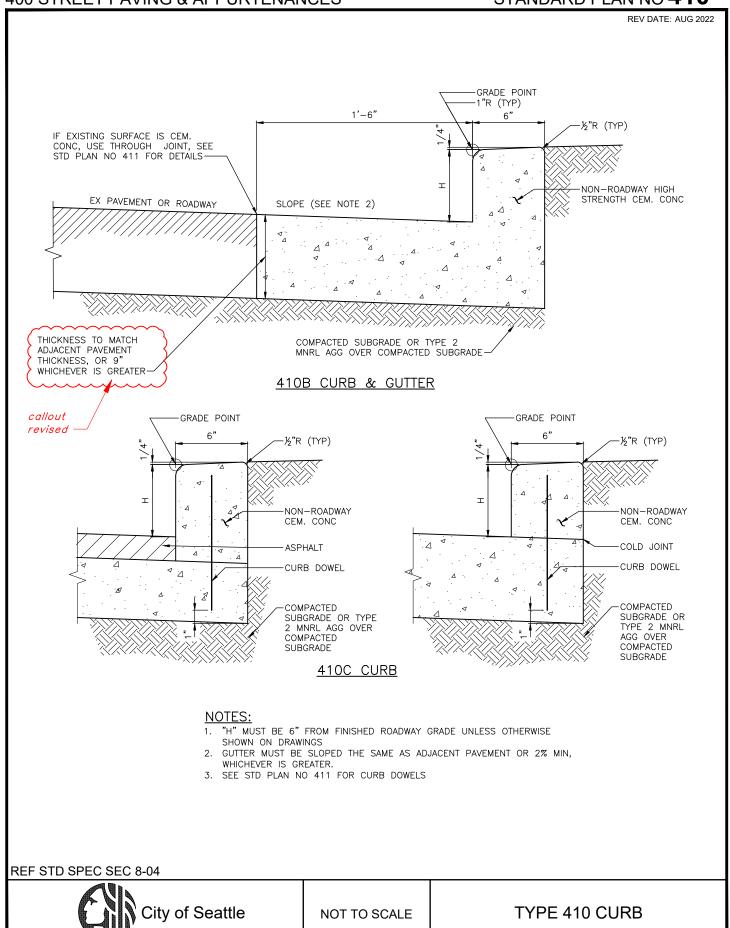
REF STD SPEC SEC 5-05

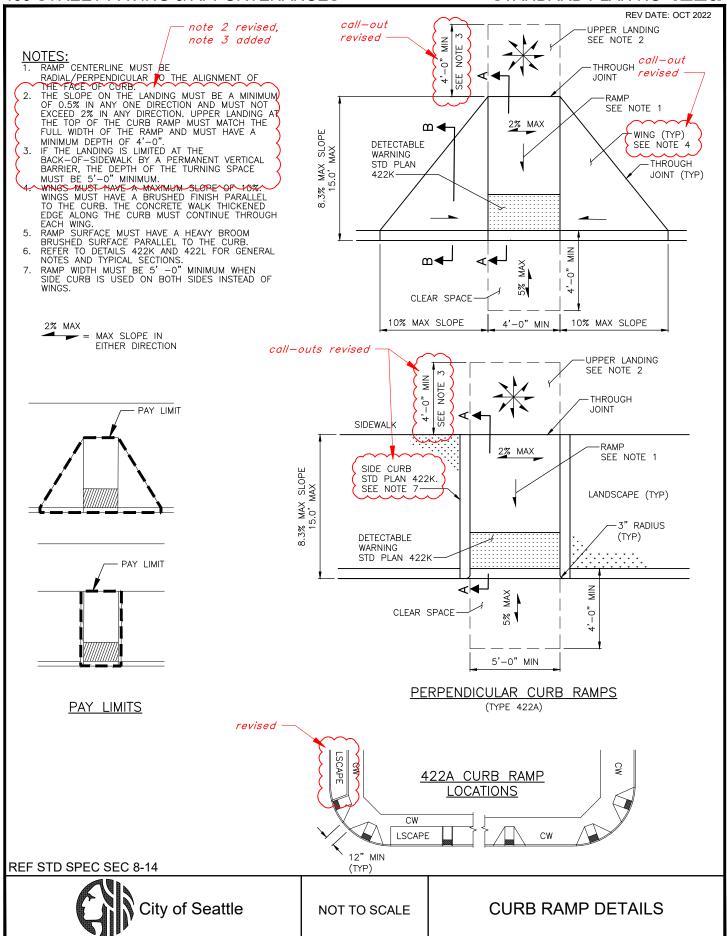
SURFACE OR JOINT.

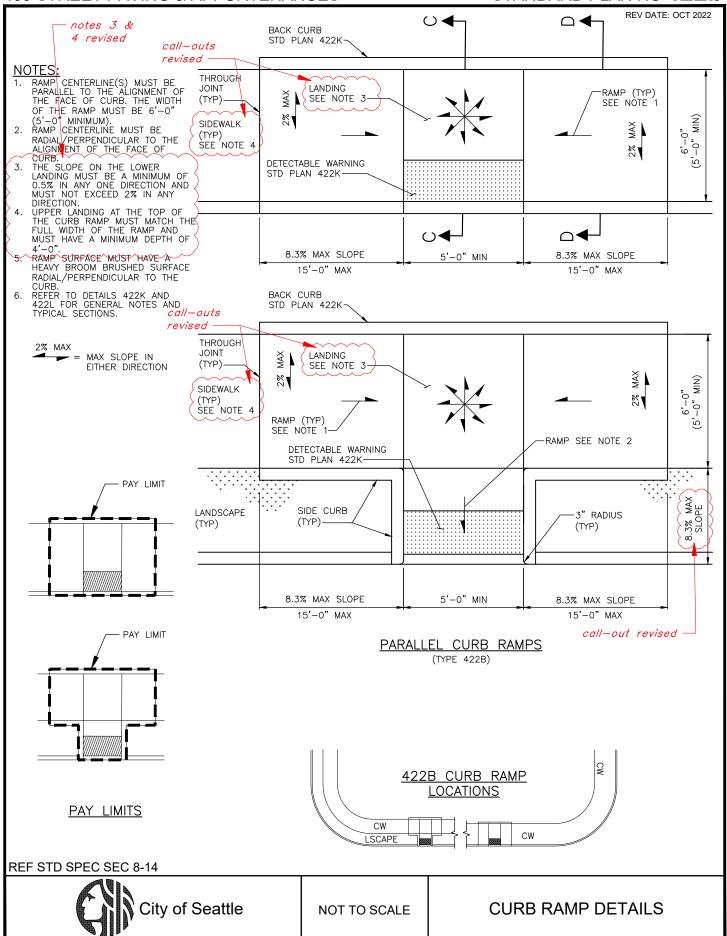


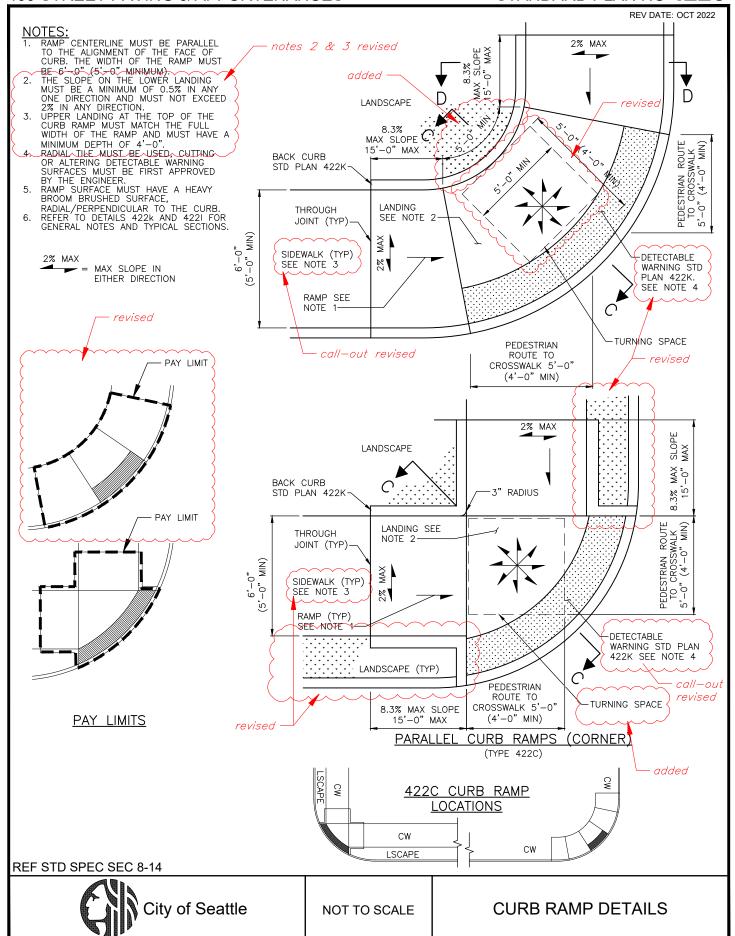
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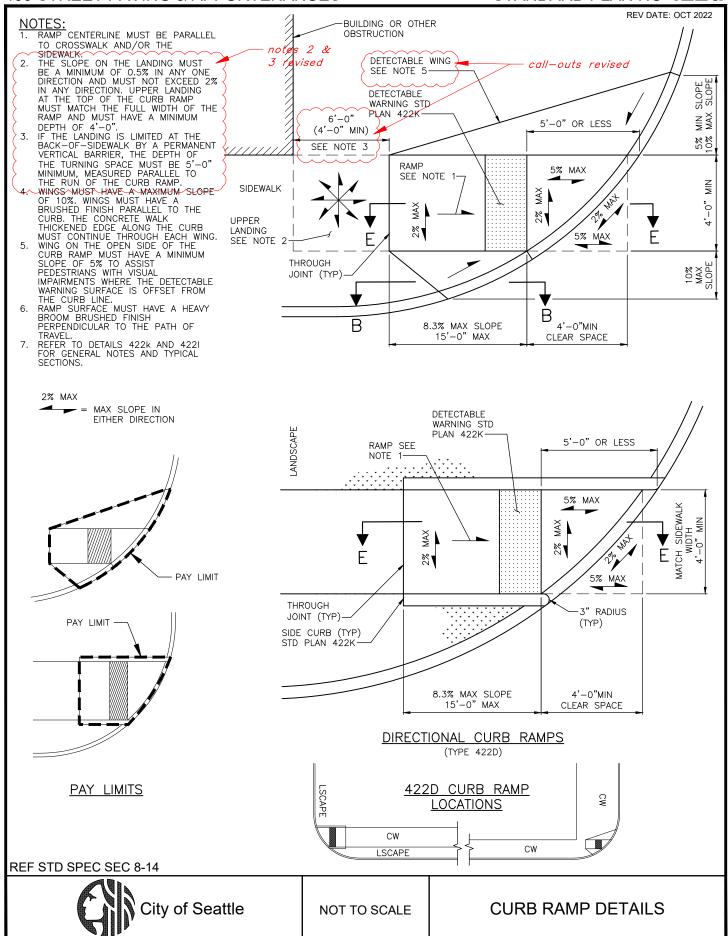
FRAME & COVER CEMENT CONCRETE REINFORCEMENT **DETAIL**

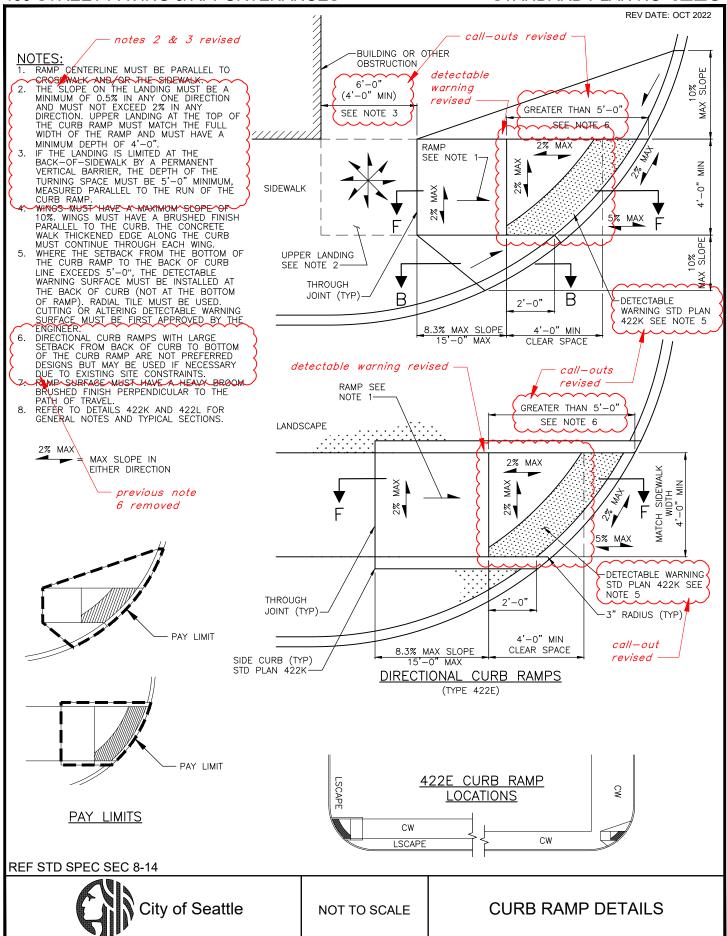


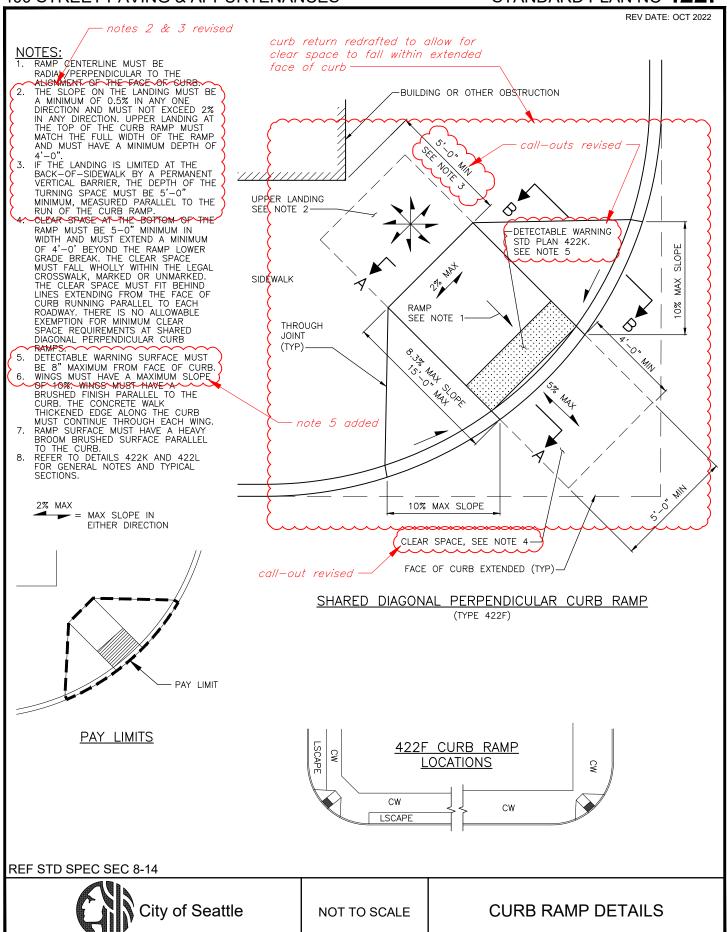


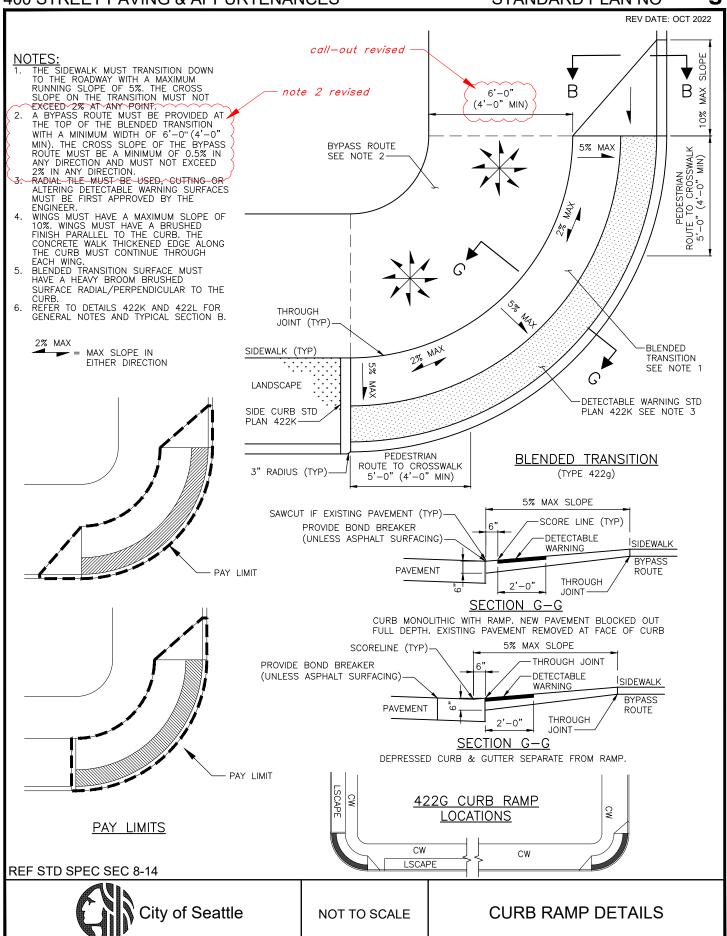


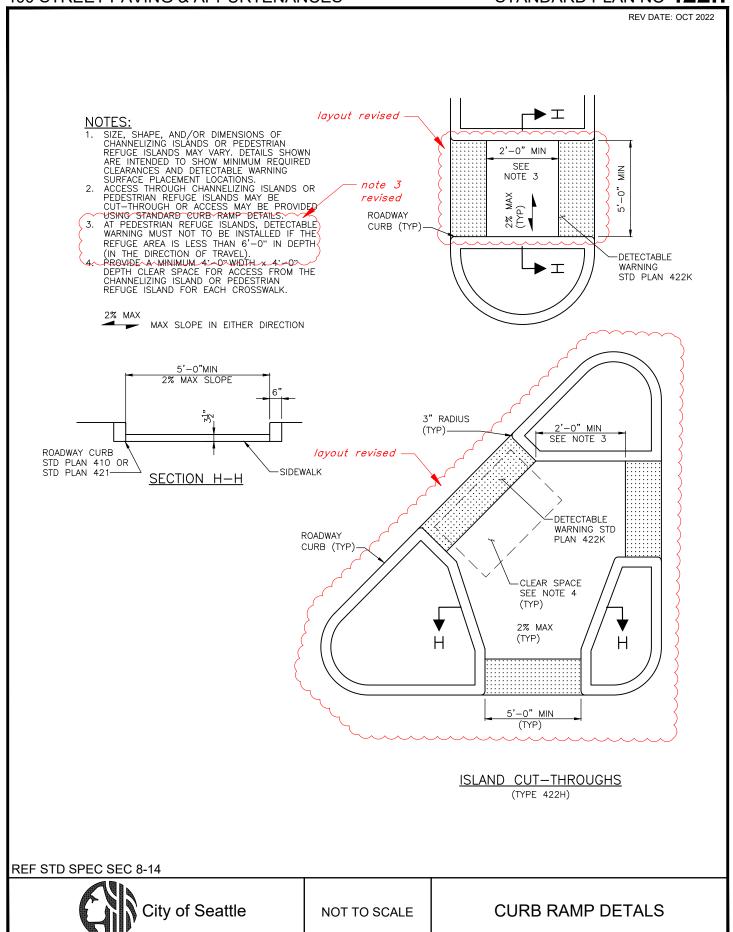


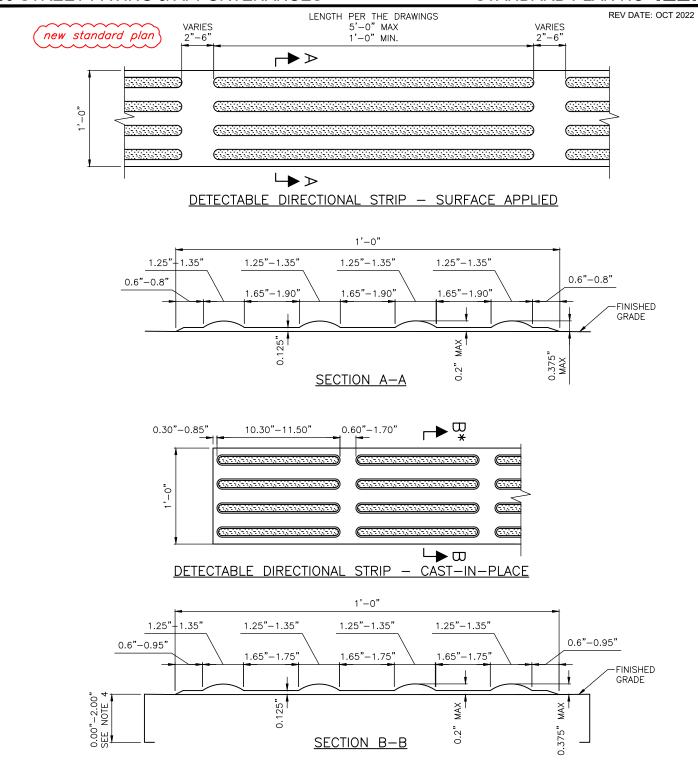












NOTES:

- DETECTABLE DIRECTIONAL STRIP MUST BE "FEDERAL YELLOW", UNLESS OTHERWISE APPROVED BY THE ENGINEER. STRIP CENTERLINE MUST BE PARALLEL TO THE ALIGNMENT OF THE PEDESTRIAN ACCESS ROUTE.
- METHYL METHACRYLATE (MMA) DIRECTIONAL STRIP MUST COMPLY WITH ALL THE DIMENSIONS RANGES SHOWN ON THIS STANDARD PLAN FOR SURFACE APPLIED.

 CAST—IN—PLACE DIRECTIONAL STRIP MAY BE BOLTED DOWN IF APPROVED BY THE ENGINEER.

REF STD SPEC SEC 8-14, 9-36



NOT TO SCALE

DETECTABLE DIRECTIONAL **STRIP**

CURB RAMP GENERAL NOTES:

- TWO CURB RAMPS MUST BE INSTALLED AT EACH CORNER UNLESS
 OTHERWISE DIRECTED BY ENGINEER. SHARED DIAGONAL PERPENDICULAR
 RAMPS MUST NOT BE INSTALLED UNLESS ALL OTHER DESIGN OPTIONS ARE
 UNABLE TO BE CONSTRUCTED DUE TO EXISTING SITE CONSTRAINTS.
- CURB RAMPS MUST BE AS CLOSELY ALIGNED WITH THE SIDEWALK AND THE PEDESTRIAN STREET CROSSING SERVED AS POSSIBLE.
- CURB RAMP MUST BE CONSTRUCTED WITH COMPANION RAMP ON OPPOSITE
 SIDE OF THE ROADWAY WHERE NO RAMP IS PROVIDED UNLESS OTHERWISE
 DIRECTED BY FNOINFER
- 4. CURB RAMPS MUST HAVE A MAXIMUM RUNNING SLOPE OF 8.3% AND A MINIMUM WIDTH OF 4'-0" UNLESS OTHERWISE DIRECTED BY ENGINEER. THE CROSS SLOPE OF CURB RAMPS MUST BE A MAXIMUM OF 2%. CURB RAMPS ARE NOT REQUIRED TO EXCEED A LENGTH OF 15 FEET UNLESS OTHERWISE DIRECTED BY ENGINEER.*
 - GRADE BREAKS AT THE TOP AND THE BOTTOM OF CURB RAMP RUNS MUST

 BE PERPENDICULAR TO THE PATH OF TRAVEL. CURB RAMP RUNS ARE

 DEFINED BY RUNNING SLOPES THAT EXCEED 5% BUT ARE NO MORE THAN

 8-3% SURFACES ABUTING AT CURB BAMP GRADE BREAKS MUST BE FLUSH
- 6. AREAS ADJACENT TO CURB RAMPS OR CURB RAMP LANDINGS USABLE BY PEDESTRIANS MUST COMPLY WITH STANDARD PLAN SIDEWALK SLOPE LIMITS OR A CURB RAMP WING MUST BE PROVIDED AS SHOWN IN THE APPLICABLE CURB RAMP DETAILS. THE INSTALLATION OF CURBED EDGES MAY BE USED AT THE SIDES OR BACKS OF CURB RAMPS OR CURB RAMP LANDING WHERE THE ADJACENT SURFACE IS LANDSCAPED OR OTHERWISE NOT USABLE BY PEDESTRIANS.
- 7. THE COUNTER SLOPE OF THE GUTTER OR THE STREET AT THE BOTTOM OF CURB RAMP RUNS MUST BE 5% MAXIMUM. IF TURNING OR CHANGE OF ORIENTATION IS REQUIRED WITHIN THE PEDESTRIAN CROSSING AT THE BOTTOM OF CURB RAMP RUNS, THE SLOPE MUST BE 2% MAXIMUM IN ANY DIRECTION FOR A MINIMUM 4'-0"WIDTH X 4'-0"DEPTH MEASURED FROM THE RAMP BOTTOM GRADE BREAK.
- 8. CURB RAMPS WITH RUNS THAT TERMINATE AT THE ENTRANCE TO THE PEDESTRIAN STREET CROSSING MUST HAVE A CLEAR SPACE AT THE BOTTOM OF THE RAMP. "CLEAR SPACE" IS DEFINED AS A NAVIGABLE 4"-O" BY 4"-O" SPACE, EXTENDING FROM THE RAMP LOWER GRADE BREAK, THAT FALLS WHOLLY WITHIN THE LEGAL CROSSWALK, MARKED OR UNMARKED, AND OUTSIDE THE PARALLEL VEHICULAR TRAFFIC LANE.
- 9. A 4'-0" MINIMUM WIDTH UNOBSTRUCTED PEDESTRIAN ACCESS ROUTE MUST BE PROVIDED FROM EACH CURB RAMP, BLENDED TRANSITION, OF FLUSH TRANSITION TO THE LEGAL CROSSWALK THAT IS SERVED, MARKED OR UNMARKED, AND LOCATED OUTSIDE THE PARALLEL VERTICAL TRAFFIC LANE.
- 10. DETECTABLE WARNING MUST BE PROVIDED AT CURB RAMPS AND AT LOCATIONS WHERE THE SIDEWALK AND ROADWAY ARE FLUSH. THE DETECTABLE WARNING SURFACE MUST HAVE A TRUNCATED DOME PATTERN AS SHOWN, WITH A MINIMUM DEPTH OF 2'-O", AND MUST BE PLACED AT THE BACK OF CURB BUT NO MORE THAN 8" FROM THE FACE OF CURB FOR MONOLITHIC CURBS OR ATYPICAL CURB WIDTHS. DETECTABLE WARNING MUST MATCH THE WIDTH OF THE RAMP RUN OR THE OPENING WHERE THE SIDEWALK AND ROADWAY ARE FLUSH. THE TRUNCATED DOMES ON THE

REV DATE: OCT 2022

DETECTABLE WARNING SURFACE SHOULD ALIGN WITH THE CURB RAMP RUN OR THE DIRECTION OF TRAVEL. DOMES MAY BE ON A RADIAL GRID PATTERN WHERE RADIAL DETECTABLE WARNING SURFACE IS PLACED AT CURB RADII.

DETECTABLE WARNING COLOR MOST BE "FEDERAL SAFETY TELLOW", UNILESS OTHERWISE DIRECTED BY THE ENGINEER

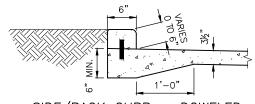
- 12. DETECTABLE WARNING SURFACES MUST NOT BE CUT OR ALTERED TO FIT UNLESS OTHERWISE DIRECTED BY THE ENGINEER. IT APPROVED, CUT OR ALTER THE DETECTABLE WARNING SURFACE PER THE MANUFACTURER'S DIRECTIONS. DETECTABLE WARNING SURFACES PLACED AT CURB RADII MUST MATCH THE CURB RADII WITHOUT GAPS OR INCONSISTENCIES IN PLACEMENT.

 13. HANDHOLES, UTILITY CASTINGS, OR ANY OTHER SURFACE OBSTRUCTIONS MUST NOT BE INSTALLED IN THE CURB RAMP RUN(S) OR LANDING(S) UNLESS OTHERWISE DIRECTED BY THE ENGINEER. IF NECESSARY DUE TO EXISTING CONSTRAINTS, HANDHOLES, UTILITY CASTINGS, OR OTHER SURFACE OBSTRUCTIONS MAY BE LOCATED WITHIN A RAMP RUN, LANDING, OR TURNING SPACE BUT MUST ADHERE TO SURFACE REQUIREMENTS. LEVEL CHANGES BETWEEN SURFACES MUST NOT EXCEED ½" WITH A 1:2 BEVEL. GAPS BETWEEN SURFACES OR GRATINGS MAY NOT EXCEED ½".
- SURFACES MUST BE FIRM, STABLE, AND SLIP RESISTANT.

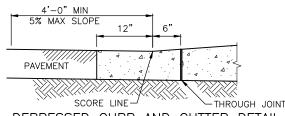
 14. HANDHOLES, UTILITY CASTINGS, OR OTHER SURFACE OBSTRUCTIONS MUST

 NOT REDUCE THE REQUIRED DEPTH OF DETECTABLE WARNING.
 - 15. POLES, HYDRANTS AND OTHER ABOVE GROUND OBSTRUCTIONS MUST HAVE A MINIMUM LATERAL CLEARANCE OF 1'-0" FROM RAMP RUN(S) OR LANDING(S). EXCEPT FOR PUSHBUTTON POSTS.
 - TÊ. ALL CHANGES ÎN LEVEL ACROSS JOINTS MUST BE FLUSH. ANY DIFFERENCE
 IN ELEVATION OF 3/16 INCH OR GREATER MUST BE REPAIRED OR
 REPLACED.
- 17. CURB RAMPS ARE DESIGNED TO ENSURE THAT WATER DOES NOT ACCUMULATE ON RAMP SURFACES AND IN FRONT OF THE CURB RAMP WHERE IT IS FLUSH WITH THE ROADWAY. THE CONTRACTOR MUST CHECK GRADE LINES AND GUTTER FLOW LINE PRIOR TO CONSTRUCTION. IF THE CHECK REVEALS THAT SITE CONDITIONS WOULD RESULT IN PONDING, OR WOULD CONFLICT WITH OBTAINING THE GRADES AT THE BOTTOM OF CURB RAMPS OR AT CURB RAMP LOWER LANDINGS AS SHOWN ON THE DRAWINGS OR PLANS, THE CONTRACTOR MUST NOTIFY THE ENGINEER IMMEDIATELY AND STOP WORK ON THE CURB RAMP UNTIL DIRECTED TO CONTINUE BY THE FNGINFER.
 - **11 IS RECOMMENDED THAT CURB RAMP'S RUNNING SLOPES BE DESIGNED TO
 7.5% MAX. AND CURB RAMP LANDINGS BE DESIGNED TO 1.5% MAX TO ALLOW
 FOR A LIMITED MARGIN OF ERROR DURING CONSTRUCTION.

notes 4, 6, 10, 12, 13, 15 & 17 revised

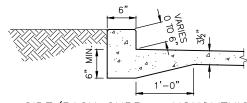


SIDE/BACK CURB - DOWELED

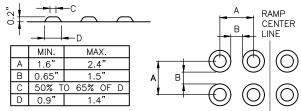


DEPRESSED CURB AND GUTTER DETAIL

REF STD SPEC SEC 8-14





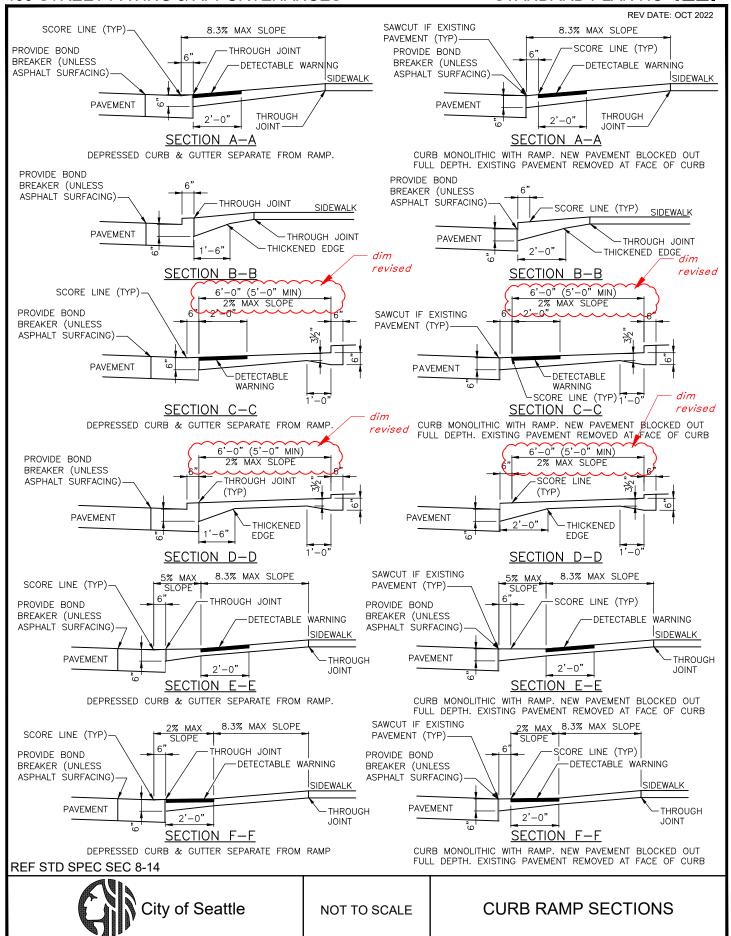


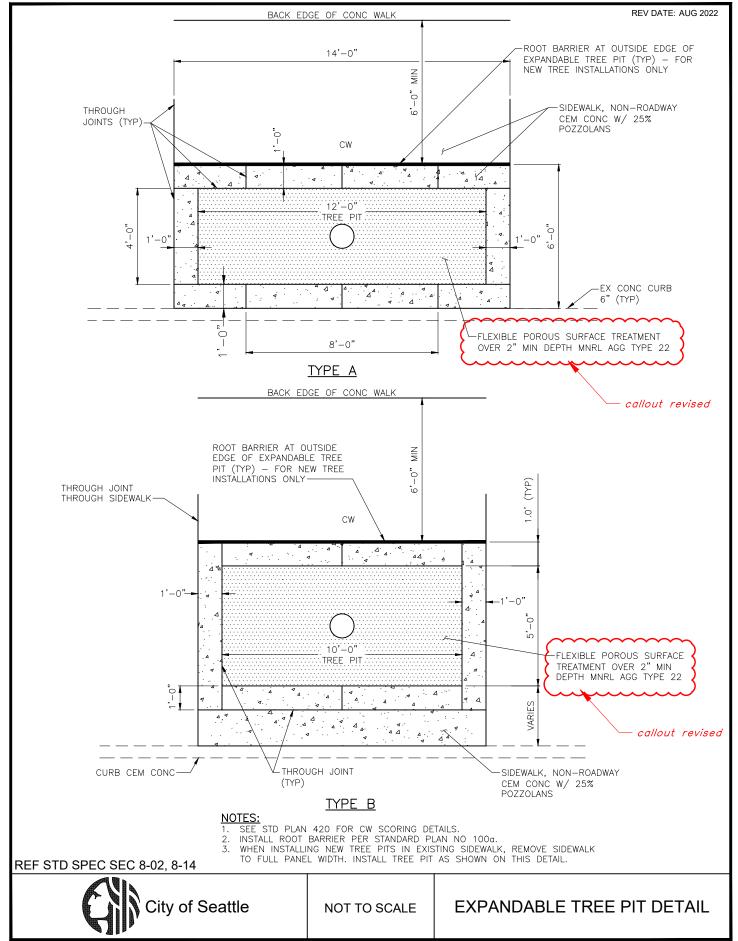
DETECTABLE WARNING TRUNCATED DOMES PATTERN

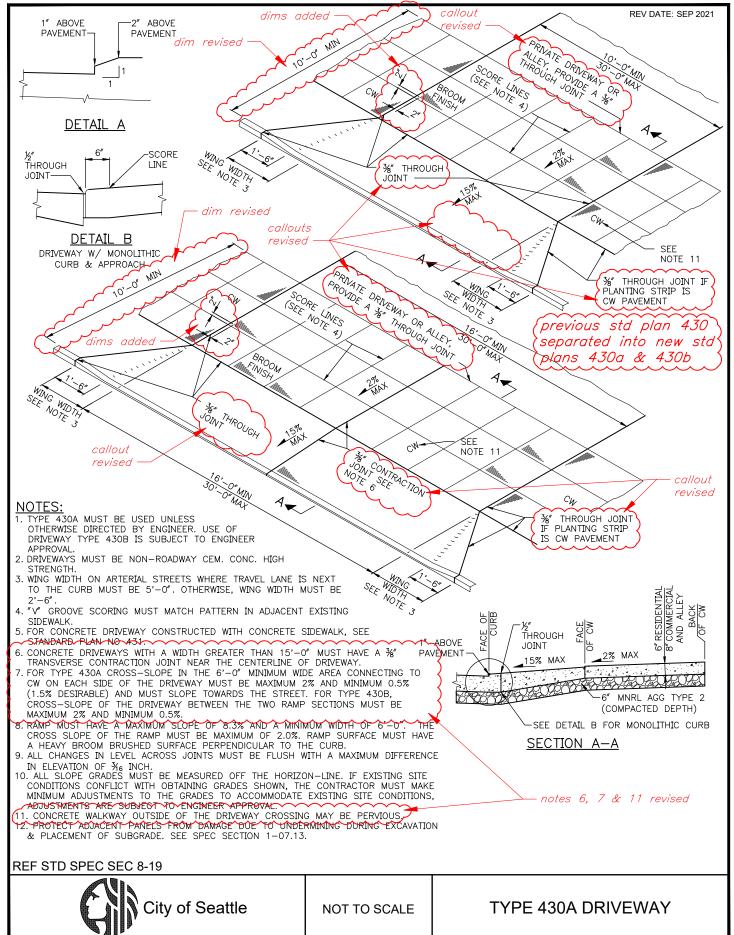
City of Seattle

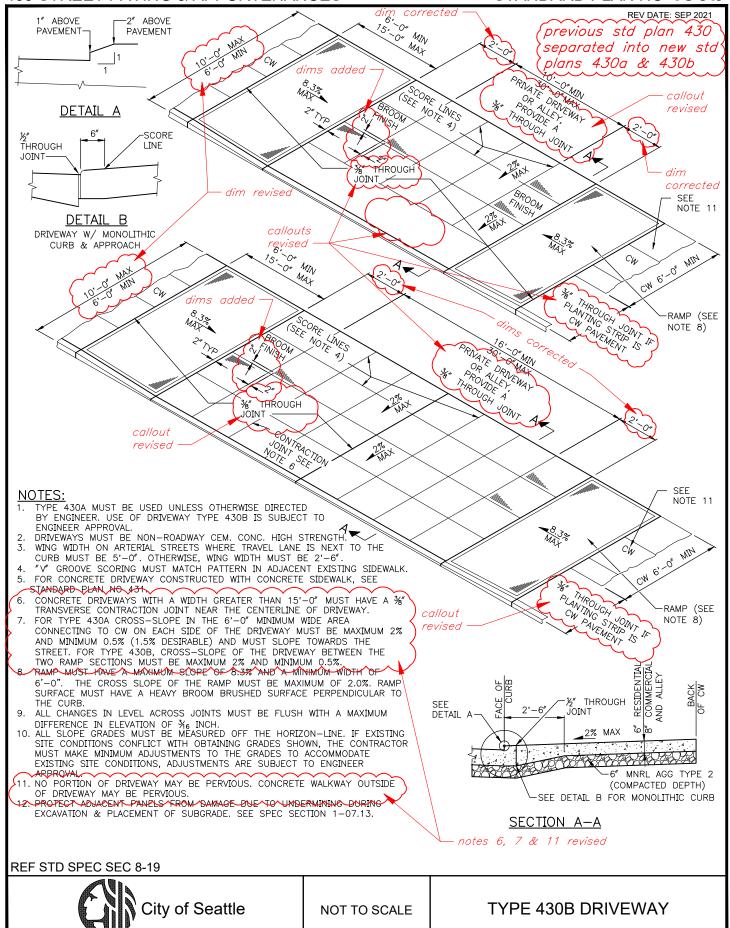
NOT TO SCALE

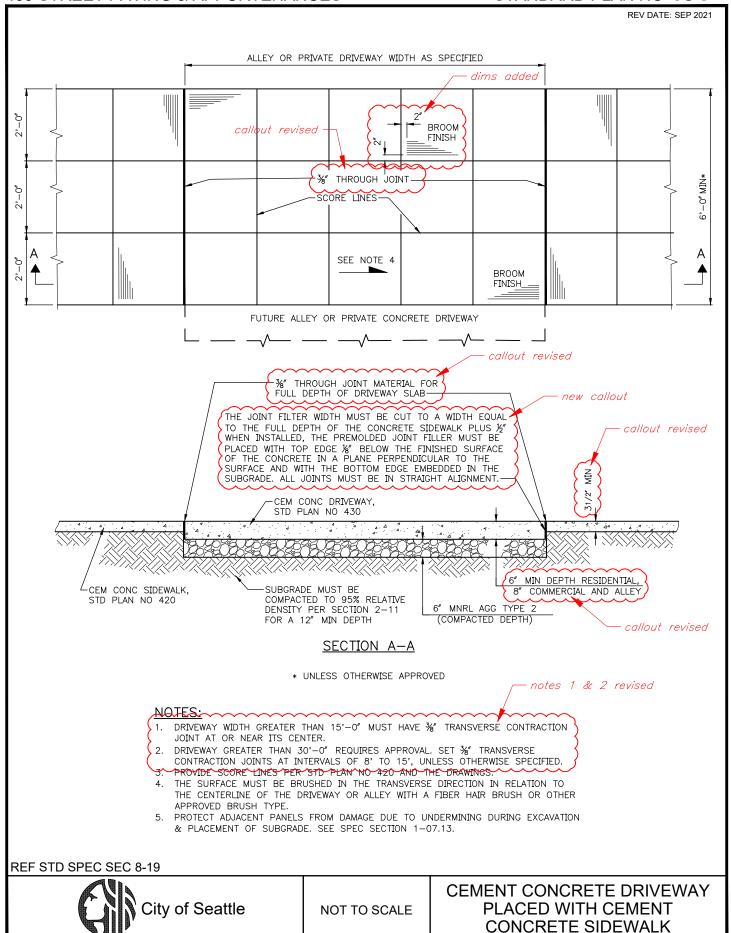
CURB RAMP DETAILS

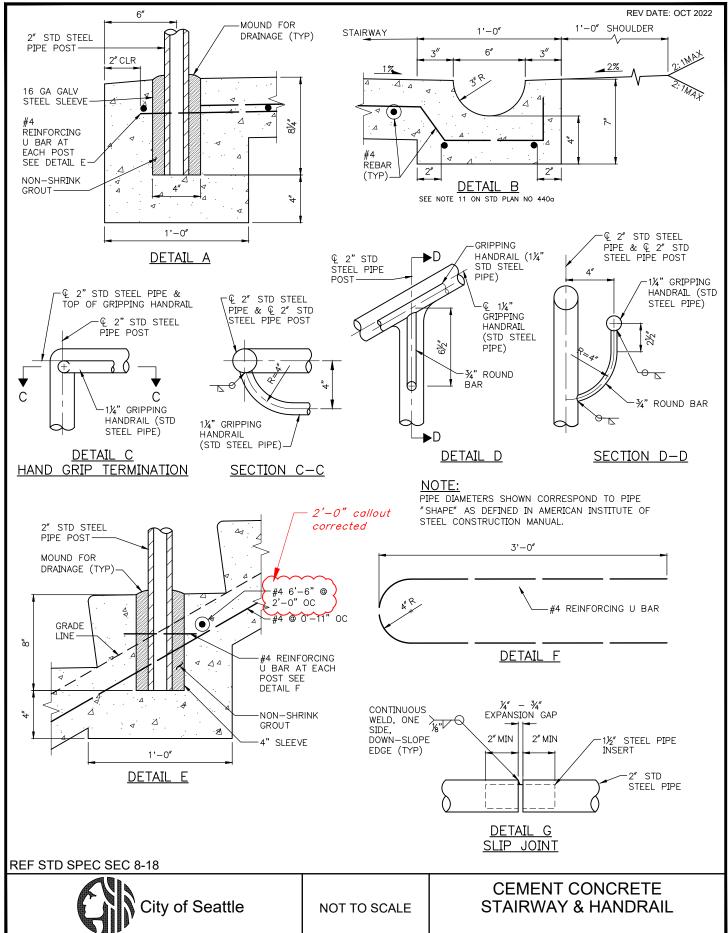


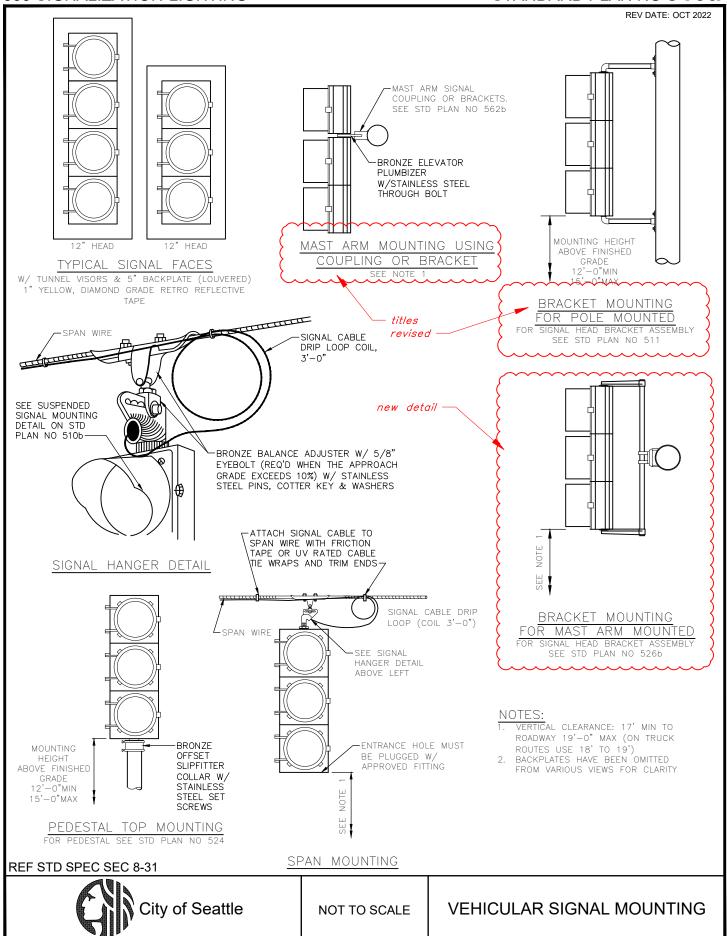


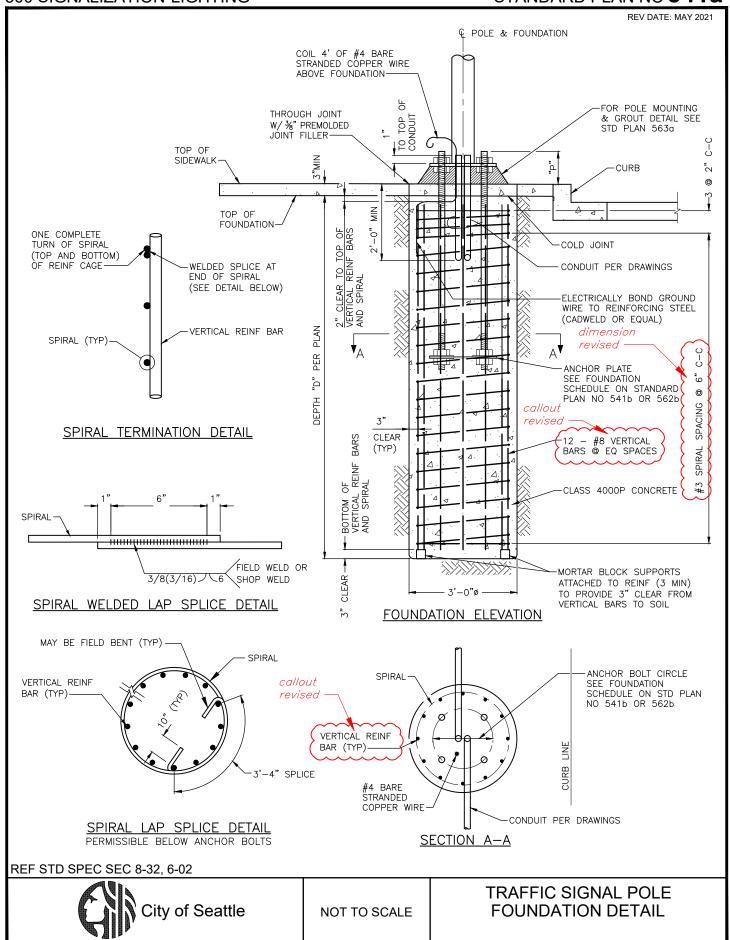


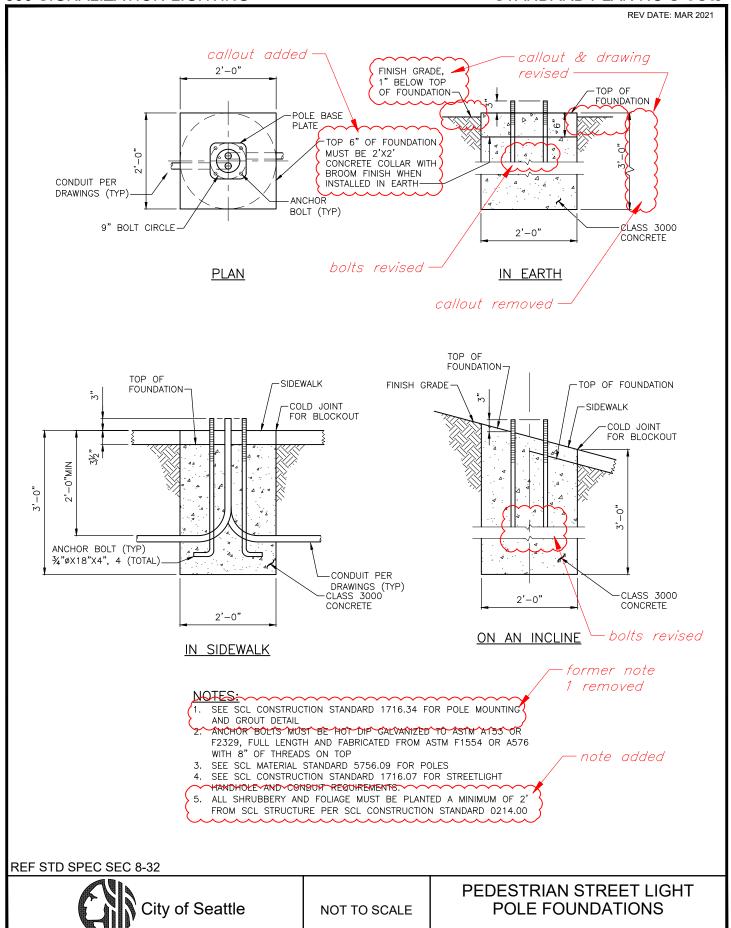


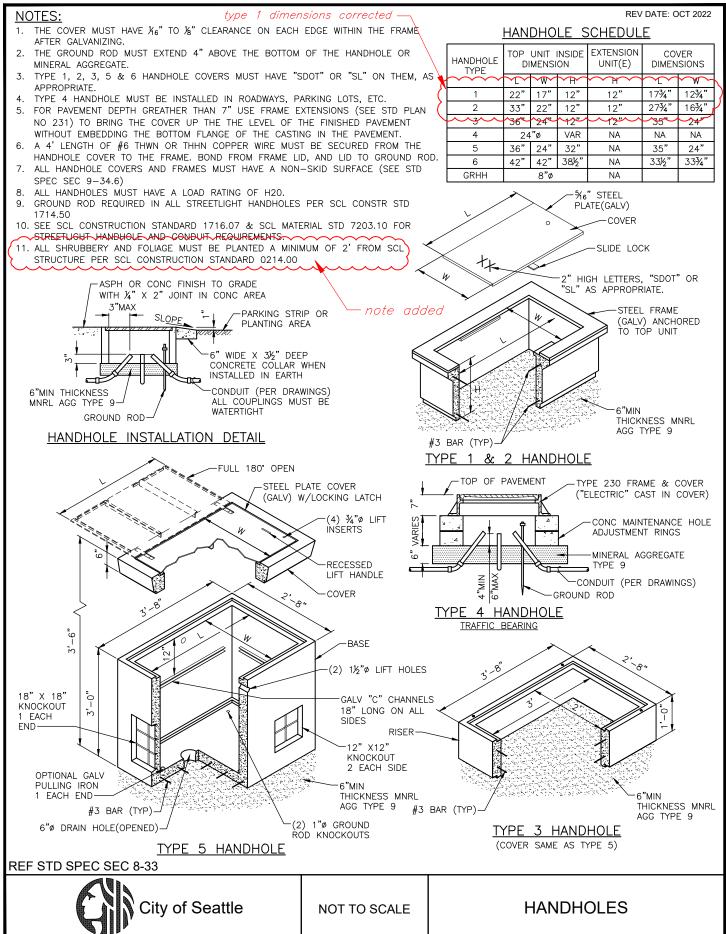


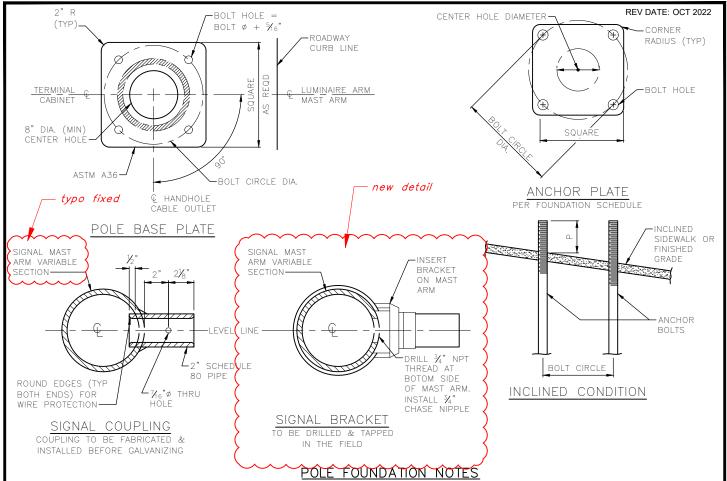












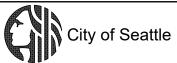
	POLE SCHEDULE		
	POLE BASE PLATE		
MAST ARM LENGTH	SQUARE	BOLT CIRCLE 'A"	BOLT HOLE
15'-0" TO 30'-0"	16" X 16"	1 4½"	1 ¹ ¾6"
31'-0" TO 40'-0"	18" X 18"	16½"	21/16"
41'-0" TO 45'-0"	18" X 18"	18"	21/16"
46'-0" TO 60'-0"	20" X 20"	20"	25/16"

- 1. CONCRETE MUST BE CLASS 4000P.
- 2. ANCHOR BOLTS MUST BE ASTM F1554 GRADE 105 CLASS 2A THREADS INCLUDING SUPPLEMENTARY REQUIREMENTS S2 THROUGH S4. NUTS: ASTM A563 HEAVY HEX GRADE DH. HARDENED STEEL WASHERS: ASTM F436.
- 3. BOTTOM ANCHOR PLATE: ASTM A36. HOT DIP GALVANIZED PER ASTM A123.
- ALL REINFORCING BARS MUST BE DEFORMED BILLET STEEL CONFORMING TO ASTM CLASS A706, GRADE 60.
- 5. ANCHOR BOLTS MUST BE HOT DIP GALVANIZED PER ASTM F2329 INCLUDING NUTS & WASHERS (FULL LENGTH) WITH A MINIMUM OF 18" OF THREADS ON TOP & 12" ON BOTTOM.
- 6. TAPE THE TOP OF ANCHOR BOLTS WITH CORROSION PROTECTION TAPE PER STD SPEC SEC 8-32.3(2)A PRIOR TO POURING CONCRETE.
- 7. SEE STD PLAN NO 541a FOR FOUNDATION DETAILS.
- 8. FOUNDATION DEPTH, REINFORCEMENT AND ANCHOR BOLTS MUST BE IN CONFORMANCE WITH "AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS" (6TH EDITION, 2013). DESIGN BASIC WIND SPEED IS 85 MPH AND RECURRENCE INTERVAL/DESIGN LIFE IS 50 YEARS

FOUNDATION SCHEDULE							
MAST ARM LENGTH	ANCHOR BOLTS		ANCHOR PLATE DIMENSIONS				
	PROJECTION "P"	BOLT CIRCLE DIA	SIZE	SIZE	BOLT HOLE	CENTER HOLE	CORNER RADIUS
15'-0" TO 30'-0"	7½"	1 4½"	1½" X 60"	¾" X 16" X 16"	15%"	10"	1%"
31'-0" TO 40'-0"	9"	16½"	1¾" × 72"	¾" X 16" X 16"	17/8"	12½"	15/8"
41'-0" TO 45'-0"	9"	18"	1¾" × 72"	¾" X 16" X 16"	17/8"	12½"	1%"
46'-0" TO 60'-0"	10"	20"	2" X 72"	¾" X 18" X 18"	2⅓"	14"	2"

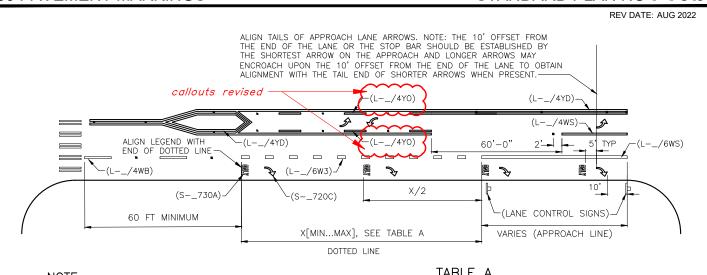
FOUNDATION DEPTH MUST BE PER PLANS.

REF STD SPEC SEC 8-31, 8-32



NOT TO SCALE

STEEL MAST ARM POLE FOUNDATION SCHEDULE & DETAIL W/O METRO TROLLEY LOADS)



NOTE: Legends, symbols & arrows must be centered within the lane to which they apply, as shown.

IADLE A						
POSTED OR	X MAX MIN					
85TH-PERCENTILE SPEED	MUTCD TABLE 2C-4 CONDITION A	MERGING TAPER				
20 MPH	225 FT	75 FT				
25 MPH	325 FT	115 FT				
30 MPH	460 FT	165 FT				
35 MPH	565 FT	225 FT				
40 MPH	670 FT	295 FT				
45 MPH	775 FT	375 FT				

TYPICAL LEGEND AND SYMBOL INSTALLATION DETAILS

LINE LENGTH	LEGEND SETS			
LINE LENGTH	WITHIN APPROACH LINE	WITHIN DOTTED LINE		
LESS THAN 50 FEET	APPROACH LINE (1 TOTAL)	NA		
50 FEET TO 120 FEET	ADD 1 SET AT BEGINNING OF APPROACH LINE (2 TOTAL)	ADD 1 SET MIDWAY BETWEEN FIRST SET AND APPROACH LINE (2 TOTAL)		
125 FEET TO 300 FEET	ADD 1 SET LOCATED MIDWAY BETWEEN FIRST AND LAST SETS (3 TOTAL)	ADD 1 SET, WITH EQUAL INTERVALS, BETWEEN FIRST SET AND APPROACH LINE		
OVER 300 FEET	ADD SETS SPACED AT APPROX. 100 FEET INTERVALS BETWEEN FIRST AND LAST SETS	(3 TOTAL)		

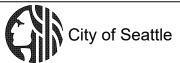
- NOTE:

 1. SEE MUTCD SECTION 2B.20 FOR GUIDANCE ON SIGNS.

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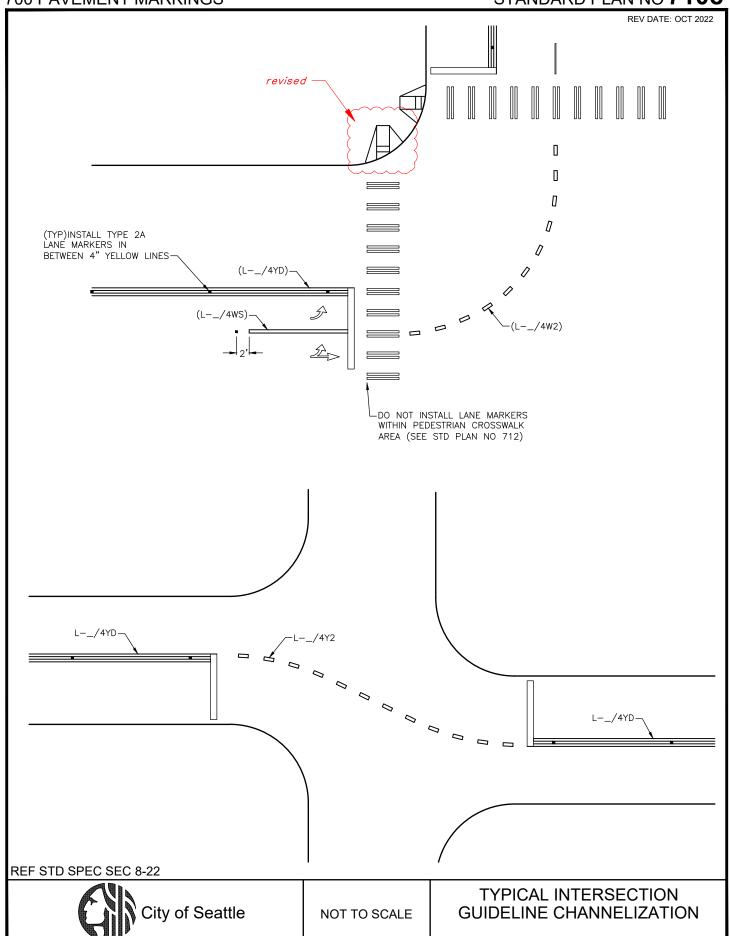
 1. SEE MUTCD SECTION 2B.20 FOR GUIDANCE ON SIGNS. MANDATORY MOVEMENT LANE CONTROL SIGNS MUST BE PAIRED WITH LEGENDS PLACED WITHIN THE APPROACH LINE

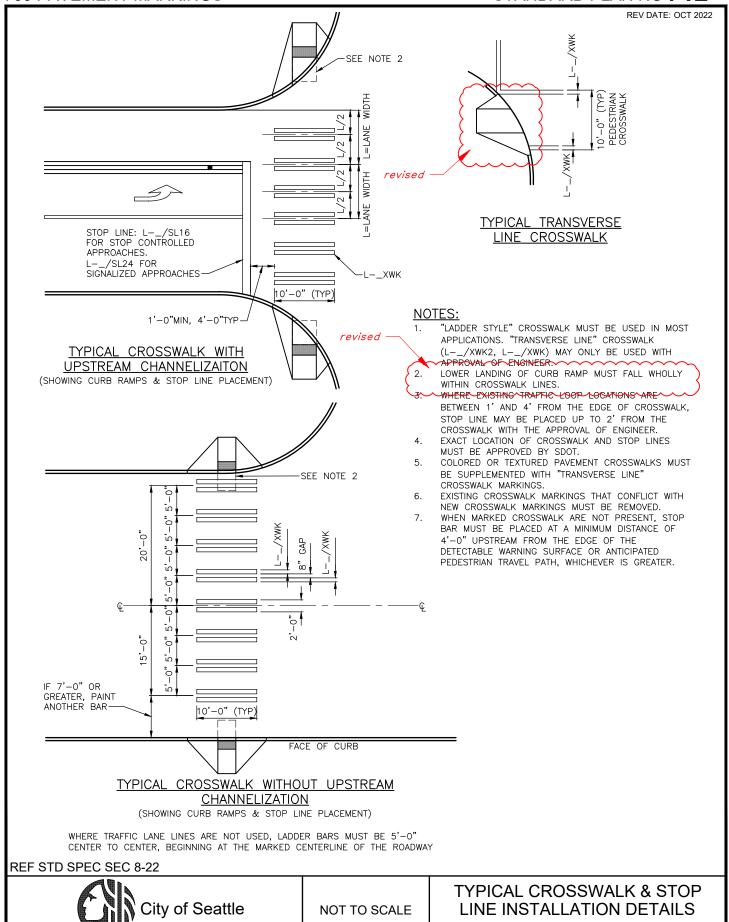
REF STD SPEC SEC 8-22

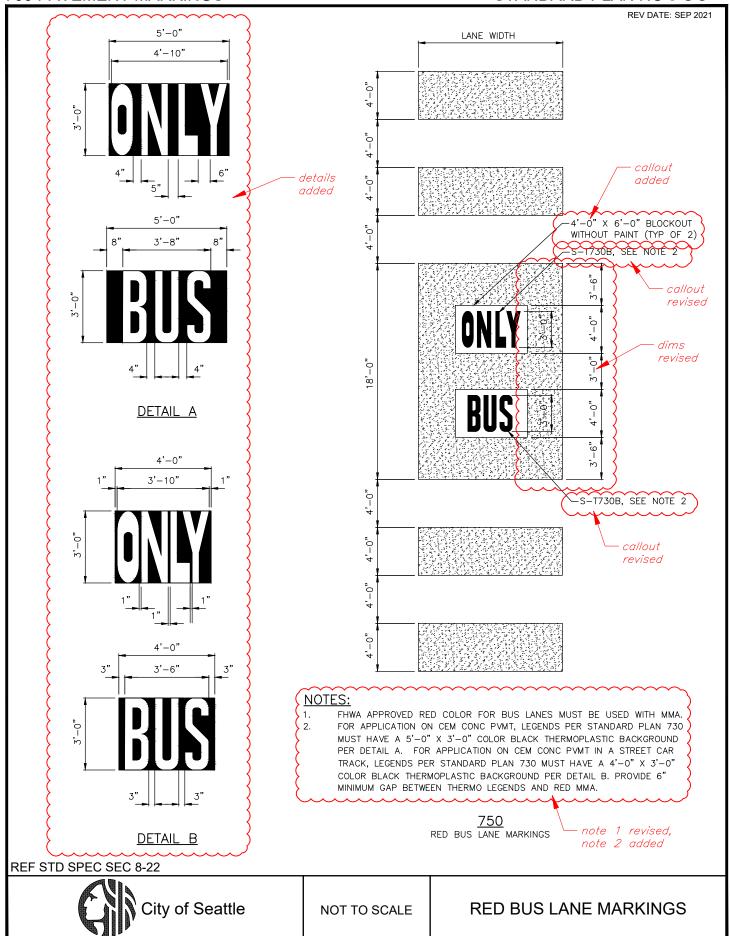


NOT TO SCALE

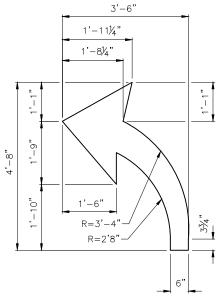
TYPICAL LANE DROP **CHANNELIZATION AND** LEGEND PLACEMENT



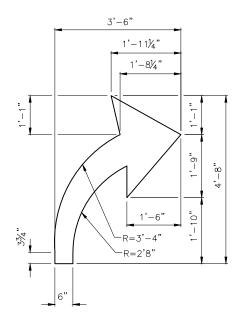








775A
NARROW BIKE LANE LEFT ARROW



<u>775B</u> NARROW BIKE LANE RIGHT ARROW

NOTES:

- 1. TURN ARROWS TO BE USED IN BIKE LANES LESS THAN 5' WIDE IN COMBINATION WITH THE HELMETED BICYCLIST SYMBOL 770C.
 2. LAYOUT SIMILAR TO 770A WITH 6' SPACING.

REF STD SPEC SEC 8-22



NOT TO SCALE

NARROW BIKE LANE **TURN ARROW SYMBOLS**

