

Plan Review Engineering Dept. Checklist

Below are some common items, which are typically missing or inadequately detailed that may delay plan review and approval. Some items may not be applicable to residential and tenant improvement projects.

[Standard Designs - PDF Format | City of Merced, CA](#)

[Standard Designs - AutoCAD DWG Format | City of Merced, CA](#)

Yes Sheet #	N/A	Plans and Calculations to be submitted	City Standard Details
		Complete Civil Plans including grading plan, storm water plan, trash enclosures, landscaping plans and utility plans showing off-site connections. Site plans must be dimensioned, to scale, and all off-site and on-site improvements shown. City right of way (ROW) and any easements shown.	
		City of Merced Standard Designs: All applicable city standard details should be included on the drawings and referenced. City standard details must be followed in ROW.	
Yes Sheet #	N/A	Sewer	
		Show sewer lateral lines with diameters. Show manhole locations and depths. Indicate separation distances from water line (10 feet minimum). Sewer lines can not run above water lines.	
		Show off-site connection to sewer main. Include city standard details to be used on drawings.	S1-S5
		Restaurants, any food related retail, or 3 compartment sinks will require grease interceptor	S5
		Auto maintenance, car washes, auto body/paint, and facilities w/ flammable or oily material will require sand and oil interceptors	S5A
		Trenching details to be used in the ROW per city standard details.	T1-T5
		Restoration requirements detailed on plans. Reference attached Engineering Submittal checklist	See attached
Yes Sheet #	N/A	Water	
		Show new and existing water lines with diameters. Show water meter locations.	
		Show off-site connections to water main. Include city standard details to be used on drawings.	W1-W9
		Minimum 1 inch service is required from main to meter. No manifolds allowed before meter.	
		Backflow preventer required on commercial and multi-family projects. Must use from approved list.	See attached
		For commercial developments, separate connections for domestic, fire, and irrigation are required.	
Yes Sheet #	N/A	Driveway Approach	
		Show all driveway approaches on plans using city standard details.	D1-D9
		Meet minimum radius for curb edges on commercial driveway approach	D7
		Driveway approach widths, locations, and quantities must meet city standards	D9
		ADA requirements for sidewalks at driveway approaches must be met. Caltrans current standard require maximum cross slopes of 1.5% and ramp slopes of 7.5%.	
		Restoration requirements detailed on plans. Details should show minimum 2 foot cutback into street pavement and indicate the required pavement cross section being restored.	
Yes Sheet #	N/A	Sidewalks, Curbs, Gutters, and Trees	
		Any work disturbing sidewalks, curbs, gutters, and trees in the city ROW must be restored using city standard details. Caltrans current standard require maximum cross slopes of 1.5% and ramp slopes of 7.5%. All replacement trees must be on the city tree list.	SCG1 L1

Yes Sheet #	N/A	Storm Water	City Standard Details
		See Post Construction/SWPP https://www.cityofmerced.org/home/showpublisheddocument/7362	
		See Flood Map for project https://msc.fema.gov/portal/home	
		See City Standard Details SD12-SD27 for storm water design calculation requirements	SD12
		Storm Water plans showing intended flow of water, drains, storm basins, and post construction design measures. Calculations for storm water flow rates and storm water storage	
		Identify if project site is in a FEMA Special Flood Hazard Area	
		Identify if project site is in an area supported by a regional storm basin. If not, on-site storage of storm water may be required based on 50-year storm capacity.	
		Regulated Projects are those that create and / or replace 5000 SqFt of impervious surface. If project results in an increase of more than 50% of impervious surface, runoff from the entire project must be included in the selection and sizing of site design measures.	
		Provide completed Post Construction Standards Plan Worksheet with Calculations.	
		Show all Drainage Management Areas (DMA) on drawings.	
		Provide percentages of pervious and impervious surfaces for both pre and post construction.	SD22
		Show location of all Site Design Measures and Treatment Control Measures on drawings with enough detail to show the collection of storm water and path to each.	
		Show location of any on-site storage / detention basins. Identify if the detention basin is an interruptible or non-interruptible outlet. Provide volume storage calculations.	SD15
		Provide completed Operations & Maintenance Agreement for Post Construction Measures signed by the property owner.	
Yes Sheet #	N/A	Trash Enclosures	
		Trash enclosures must be shown on drawings including location and dimensions.	
		Enclosure location must have accessible path for Refuge Trucks (both in and out). No sharp turns.	
		Per current Calgreen standards, there must be 20 feet clear from pole to pole at enclosure gate.	
Yes Sheet #	N/A	Landscaping Plans	
		Irrigation plans showing water meter and backflow preventor.	
		Landscaping and Trees to be provided in ROW. All trees must be from city approved list.	See attached
Yes Sheet #	N/A	Encroachment Permit / Monument Preservation Certificate	
		Any upgrades or connections made in ROW will require an Encroachment Permit. Encroachment permit must be approved and paid prior to release of building permit. Encroachment permit work to be complete prior to Certificate of Occupancy Monument Preservation Survey Required when site development is expected to disturb existing monuments.	
Yes Sheet #	N/A	Conditions of Approval from Site Plan Committee	
		All Conditions of Approval for projects that were approved by the Site Plan Committee must be met and shown on drawings where applicable.	



PLAN SUBMITTAL

**ALL PLANS SHALL BE SUBMITTED ELECTRONICALLY
PLEASE SUBMIT AT:**

<https://www.cityofmerced.org/departments/engineering/encroachment-permits>

Additional notes shall be added to the cover or notes sheet:

1. Updated City compaction standards

A complete submittal will expedite the plan check process. If the plans and other construction documents are incomplete, the plan check process will be prolonged. ***This is a general list of required items. Additional items may be required depending on project scope.***

Contact encroachmentpermit@cityofmerced.org or (209) 388-7509 with any questions.

Item Number	Item Description	Right of Way	Ground Breaking	Construction Over 2500 SF	Construction Over 5000 SF
1.	PERMIT APPLICATION FORM, completed with all contact data	X	X	X	X
2.	A complete SITE PLAN, to scale, dimensioned and all off site and on site improvements shown	X	X	X	X
3.	Contractor BUSINESS LICENSE	X	X	X	X
4.	Contractor INSURANCE	X	X	X	X
5.	TRAFFIC CONTROL PLAN including dimensions and PEDESTRIAN CONTROL (if applicable)	X	X	X	X
6.	A complete CERTIFICATE OF MONUMENT PRESERVATION		X	X	X
7.	A complete GRADINIG PLAN showing direction of flow.			X	X
8.	A complete POST CONSTRUCTION STANDARDS PLAN WORKSHEET			X	X
9.	Signed and stamped POST CONSTRUCTION CALCULATIONS				X
10.	ENGINEER'S ESTIMATE for all offsite and post construction improvements.				X
11.	A complete OPERATION & MAINTENANCE AGREEMENT including legal descriptions of property and post construction facilities				X
12.	SWPP PLAN (if applicable)				X

ENCROACHMENT GUIDE

- PLEASE CALL **209.723.2489** AT LEAST **24 HOURS** IN ADVANCE TO SCHEDULE INSPECTIONS FOR ANY WORK IN CITY RIGHT OF WAY, THIS INCLUDES TRAFFIC CONTROL IN CITY RIGHT OF WAY TO PERFORM WORK ON PRIVATE PROPERTY. **THIS MUST BE DONE FOR EACH DAY THAT YOU ARE IN THE FIELD.**

- SEND AN EMAIL TO ENCROACHMENTPERMIT@CITYOFMERCED.ORG AT LEAST **3 BUSINESS DAYS** IN ADVANCE TO NOTIFY ENGINEERING STAFF OF ANY LANE OR ROAD CLOSURES. **FAILURE TO DO SO WILL RESULT IN REMOVAL FROM WORK SITE FOR THE DAY.**

- MUST USE CITY APPROVED NO PARKING SIGNS
- CONTACT ALL AFFECTED BUSINESSES AT LEAST 5 BUSINESS DAYS PRIOR TO WORK THAT WILL AFFECT PROPERTY OR PROPERTY FRONTAGE.

IF NIGHT WORK REQUIRED. THERE IS POSSIBLE ADDITIONAL FEE IF INSPECTOR IS REQUIRED OVERTIME IN ORDER TO PROCESS THIS REQUEST. NIGHT WORK MUST BE COORDINATED AND DATE APPROVED WITH THE CITY OF MERCED ENGINEERING DEPARTMENT PRIOR TO WORK

PERMIT REPRESENTATIVE MUST BE ON SITE WITH SUB CONTRACTORS AT ALL TIMES.

NOTIFICATION REQUIREMENTS FOR POSTING “NO PARKING”

NO PARKING

DATE and TIMES

(Example: Wednesday, September 9, 2011,
6:00 am to 5:00 pm)

**VIOLATORS VEHICLE MAY BE TOWED
AT OWNERS EXPENSE**

MERCED POLICE DEPARTMENT

(209) 385-6912

21351 CVC / 22651(n) CVC

provide engineering with advanced notice to notify PD

SIZE REQUIREMENTS

SIGN MUST BE 17” x **11**” LETTERS ARE TO BE AT LEAST 1” IN HEIGHT.
SIGNS MUST BE POSTED ALONG ENTIRE PARADE, STREET CLOSURE,
AND/OR STAGING ROUTE OR ALONG ANY CONSTRUCTION AREA.

SIGNS MUST BE PLACED NO LESS THAN 3 PER BLOCK, EVENLY
SPACED ON BOTH SIDES OF THE STREET, ALONG THE ENTIRE STREET
CLOSURE.

RESTORATION REQUIREMENTS

arterial –

AC 5.5" MIN OR 1" THICKER THAN EXISTING, WHICHEVER IS GREATER. AB 20.5" MIN COMPACTED TO 95%, AB CALTRANS CLASS II - SUBMIT CERT OF COMPLIANCE.

collector

AC 4.0" MIN OR 1" THICKER THAN EXISTING, WHICHEVER IS GREATER. AB 15.5" MIN COMPACTED TO 95%, AB CALTRANS CLASS II - SUBMIT CERT OF COMPLIANCE.

Local

AC 2.5" MIN OR 1" THICKER THAN EXISTING, WHICHEVER IS GREATER. AB 11" MIN COMPACTED TO 95% ,AB CALTRANS CLASS II - SUBMIT CERT OF COMPLIANCE.

SIDEWALK

FULL FLAG REMOVAL FOR ALL AFFECTED FLAGS, DOWELED UPON REPLACEMENT

CURB RAMPS

FULL COMPLETE REPLACEMENT OF CURB RAMP IF AFFECTED AT ANY SECTION INCLUDING CURB RETURNS

CURB AND GUTTER

REPLACE ANY AFFECTED CURB/GUTTER TO SCORE LINES AND MAINTAIN FLOW LINE

LANDSCAPE

REPLACE TO KIND OR BETTER. RE-SOD GRASS AREA.

CROSSWALKS & BIKE LANES

RESTORATION WITHIN BIKE LANES AND CROSSWALKS TO BE FLUSH WITH EXISTING PAVEMENT. ANY DAMAGED STRIPING TO BE REPLACED TO BETTER.

“BIKE LANE” OR SYMBOLS WITHIN THE BIKE LANE (NOT INCLUDING BOUNDARY LINE STRIPING FOR BIKE LANE) WILL REQUIRE FULL VERBAGE OR SYMBOL TO BE REPAINTED WITH A GREEN ANTI SKID THERMAL PLASTIC. CROSSWALKS WILL REQUIRE BOTH SIDES FULLY REPAINTED. STOP LOCATIONS WILL REQUIRE COMPLETE REPAINT OF “STOP” AND STOP BAR IF IMPEDED.

WORKING NEAR TRAFFIC SIGNALS

IF PAVEMENT HAS NO DAMAGE, CRACKING AND IS IN PRISTINE SHAPE, WORK TO STAY AT LEAST 1FT FROM TRAFFIC LOOP.

IF PAVEMENT HAS DAMAGE OR ALLIGATOR CRACKS, WORK TO STAY AT LEAST 3 FT FROM TRAFFIC LOOP.

FAILURE TO WORK WITHIN THESE GUIDELINES WILL RESULT IN THE REPLACEMENT OF TRAFFIC LOOP AT THE COST OF THE CONTRACTOR.

ALL WORK THAT REQUIRES TEMPORARY PLATING OF BELLHOLE/TRENCH SHALL BE ANCHORED TO PREVENT MOVEMENT

ALL UTILITIES AT A 42 INCH MINIMUM DEPTH AND TO LATEST CITY OF MERCED STANDARD OF DESIGN

POST-CONSTRUCTION MONUMENT PRESERVATION REQUIRED IF PRE-CONSTRUCTION MONUMENT PRESERVATION WAS PRESENTED OR REQUIRED.

THE FOLLOWING REQUIREMENTS INCLUDE STRUCTURAL SECTIONS, INCLUDING BUT NOT LIMITED TO, SIDEWALKS, RAMPS, DRIVEWAYS, STREETS, CURB AND GUTTER

1) Slurry is not an acceptable backfill except within a Full Depth Reclamation (FDR) road section.

The use of slurry shall be approved in writing by the City Engineer prior to placement.

All slurry in FDR sections shall be 500psi and shall be tested at the contractors expense.

2) Asphalt Concrete (AC), over 1 foot by 1 foot (pothole) will require compaction testing.

If compaction is required, the AC shall be sawcut to a minimum of 2 feet by 2 feet to allow for proper compaction and testing.

AC shall be flush with surrounding streets

6) Crushed rock shall not be used for any type of backfill.

7) Potholes shall be backfilled and capped in a manner such that it remains flush with the existing street, at least 3 inch thick cold patch

8) Depressions or protrusion (hump) will not be accepted, even after final inspection has been given.

POLES NEED TO BE REPLACED IN A TIMELY MANNER. VARIES BY PROJECT WILL NEED TO CHECK WITH CITY ENGINEER.

SHOULD WORK EXCEED THE ORIGINAL AGREED PLAN, CITY OF MERCED RESERVES THE RIGHT TO CHANGE THE REQUIREMENTS OF THE RESTORATION OR PERMIT OBLIGATIONS.

ALL WORK TO BE DONE TO CITY OF MERCED STANDARDS OF DESIGN AND ANY LATEST ADA REQUIREMENTS

Where not to remain, existing trees should be removed and the root system thoroughly cleared of root balls and isolated roots greater than ½ inch in diameter. The amount of soil lost or disturbed with tree removal will likely vary with the extent of the root systems, moisture conditions at the time of removal, soil type and the methods of removal. The root system removal will disturb a significant quantity of soil.

Where roots are within any structural section of sidewalk, roadway, curb and gutter, the area should be thoroughly cleared of root balls and isolated roots greater than ½ inch in diameter.

Any traffic or ordinance sign removed for construction, whether utility or development, will need to be replaced. Replacement will be a new sign with the exact same language, location, and sizing unless otherwise approved through signage and striping plan or change in ordinance approved by council

Botanical Name	Common Name	4-5' Strip	11' Strip	Parking Lot	Park Only	Minimum Spacing	Water Use	Height	Spread	Drought Tolerant	Sidewalk Damage	Characteristics
Acacia stenophylla	Shoestring Acacia		X	X			Low	30'	20'	Yes	Low	Showy flowers
Acer buergerianum	Trident Maple			X			Low-Moist	25'	25'	Yes	Low	
Acer negundo 'Flamingo'	Flamingo Box Elder		X				Low-Moist	40'	20'	Yes	Unknown	Variegated foliage
Acer rubrum x freemanii 'Autumn Blaze'	Autumn Blaze Red Maple					35'	Moderate	50'	40'	Yes	High	Rounded form, good fall color
Acer saccharum 'Barrett Cole'	Apollo Maple	X					Moist	30'	10'	No	High	
Aesculus californica	California Buckeye		X				Low	25'	30'	Yes	Low	
Arbutus unedo	Strawberry Tree	X		X			Low-Moist	35'	35'	Yes	Low	
Caesalpinia cacaecio	Casalote (Thornless)		X				Low	25'	25'	Yes	Unknown	
Calocedrus decurrens	Incense Cedar		X				Low-Moderate	90'	15'	Yes	Moderate	
Catalpa speciosa	Western Catalpa					20'	Moist	60'	40'	Yes	Moderate	
Cedrus atlantica	Atlas Cedar		X				Moderate	65'	50'	Yes	Moderate	
Cedrus deodora	Deodar Cedar		X				Moderate	60'	30'	Yes	Moderate	
Celtis occidentalis	Common Hackberry					35'	Low-Moist	80'	50'	Yes	Moderate	
Celtis sinensis	Chinese Hackberry					30'	Low	40'	35'	Yes	Moderate	Spreading, glossy green leaves, yellow fall color
Cercis canadensis	Eastern Redbud		X	X			Low	25'	30'	Yes	Low	
Cercis occidentalis	Western Redbud		X	X			Low	20'	20'	Yes	Low	
Chilopsis linearis 'Bubba'	Desert Willow		X	X			Low	30'	20'	No	Low	
Cinnamomum camphora	Camphor Tree					30'	Moderate	65'	60'	Yes	High	
Cotinus coggygria 'Royal Purple'	Royal Purple' Smoke Tree	X					Low-Moderate	20'	12'	No	Low	
Dalbergia sissoo	Indian Rosewood					20'	Moderate	60'	40'	Yes	Moderate	
Eriobotrya difflera	Bronze Loquat		X				Moderate	20'	15'	No	Moderate	
Geijera parvifolia	Australian Willow		X	X			Low	35'	20'	Yes	Low	
Ginkgo biloba 'Autumn Gold'	Autumn Gold Ginkgo					30'	Moderate	50'	35'	Yes	Low-Moderate	Pyramidal form, medium green foliage, golden fall color
Gymnocladus dioica	Kentucky Coffee Tree					35'	Moderate	100'	50'	Yes	Moderate	Huge, tropical-like leaves, yellow fall color, more tame than Honeylocust
Koelreuteria bipinnata	Chinese Flame Tree			X		15'	Low	40'	30'	No	Low	
Lagerstroemia indica	Crape Myrtle	X		X			Low-Moderate	25'	25'	Yes	Low	
Liquidambar styraciflua 'Rotundiloba'	Seedless Sweetgum					15'	Moderate-Moist	50'	25'	No	High	
Liriodendron tulipifera	Tulip Tree					30'	Moderate	80'	40'	No	Moderate	Oval form, medium green foliage, bright yellow fall color
Malus x 'Dolgo'	Dolgo Crabapple		X				Moist	25'	15'	Yes	Low	Showy flowers, attracts wildlife
Malus x 'Harvest Gold'	Harvest Gold Crabapple					15'	Moderate	25'	25'	Yes	Low	Showy flowers, attracts wildlife
Malus 'JFS-KWS'	Royal Raindrops Crabapple		X				Moderate	20'	16'	Yes	Low	Showy flowers, attracts wildlife
Malus 'Klehms'	Klehms Improved Bechtel		X				Moist	20'	20'	Yes	Low	Showy flowers, attracts wildlife
Malus 'Prairiefire'	Profusion Crabapple		X				Moist	20'	20'	Yes	Low	Showy flowers, attracts wildlife
Maytenus borja 'Green Showers'	Mayten Tree					15'	Moderate	50'	30'	No	Low	
Morus alba	White mulberry				X	35'	Low-Moist	50'	50'	Yes	High	
Nyssa sylvatica	Blackgum					15'	Moist	50'	30'	Yes	Unknown	
Olea europaea 'Swan Hill'	Swan Hill Olive					15'	Low	30'	30'	Yes	Moderate	
Pinus edulis	Mondell Pine				X	15'	Low-Moist	80'	25'	Yes	Moderate	
Pinus halepensis	Aleppo Pine			X		20'	Low	60'	40'	Yes	Moderate	
Pinus pinea	Stone Pine			X		30'	Low-Moist	80'	60'	Yes	Moderate	
Pinus thunbergii	Japanese Black Pine			X		20'	Low-Moist	30'	35'	Yes	Moderate	
Pistache chinensis	Chinese Pistache "Keith Dovey"					15'	Moderate	50'	30'	Yes	Low	Flowerless male, vibrant fall color
Platanus x acerifolia	"Columbia" Planetree					45'	Moderate-Moist	100'	75'	Medium	Moderate	
Quercus agrifolia	Coast Live Oak					35'	Low-Moist	70'	70'	Yes	Unknown	Attractive to wildlife
Quercus coccinea	Scarlet Oak					35'	Moderate	70'	50'	No	Moderate	
Quercus lobata	Valley Oak				X	35'	Low-Moist	70'	50'	No	Moderate	
Quercus macrocarpa x robur	Heritage Oak				X	35'	Unknown	80'	50'	Unknown	Unknown	
Quercus douglasii	Blue oak				X	35'	Low-Moist	65'	50'	Yes	Low	
Quercus robur	'Michround' English Oak				X	40'	Low-Moist	120'	80'	Yes	Moderate	
Quercus robur 'Fastigiata'	Skyrocket Oak		X				Moist	50'	15'	Yes	Moderate	
Quercus robur x bicolor 'Regal Prince'	Upright English Oak					15'	Moderate	60'	25'	Yes	Moderate	
Quercus suber	Cork Oak			X		35'	Low-Moist	70'	70'	Yes	Moderate	
Quercus virginiana	Southern Live Oak				X	45'	Low-Moist	80'	100'	Yes	Moderate	
Robina x ambigua	Purple Robe Locust	X					Low-Moist	50'	20'	Yes	High	
Schinus terebinthifolia	Brazilian Pepper		X			15'	Low-Moist	30'	30'	Yes	Moderate	
Ulmus japonica x wilsoniana	Accolade Elm					20'	Moist	60'	40'	Yes	Unknown	
Ulmus parvifolia 'Frontier'	Frontier Elm			X		15'	Moist	40'	30'	Yes	Moderate	
Zelkova serrata 'Halka'	Halka Zelkova					15'	Moderate	50'	30'	Yes	Unknown	
Zelkova serrata 'Schmidtlow'	Wireless Zelkova					20'	Moderate	25'	35'	Yes	Unknown	
Zelkova serrata 'Village Green'	Village Green Zelkova					35'	Moist	60'	50'	Yes	Low	
Xylosma congesta	Shiny Xylosma	X					Moist	10'	15'	Yes	Low	



CITY OF MERCED APPROVED BACKFLOW ASSEMBLY DEVICES

(LEAD FREE ONLY ALLOWED)

AMES

1. TYPE DC DA ONLY
 - MODEL 300 COLT
 - SIZE 2 1/2", 3", 4", 6", 8", 10", 12"
2. TYPE DC/BYPASS
 - MODEL 2000B
 - SIZE 3/4"

FEBCO

1. TYPE RP
 - MODEL LF825Y
 - SIZE 3/4", 1", 1 1/4", 1 1/2", 2", 2 1/2", 3", 4", 6", 8", 10", 12"
2. TYPE RP
 - MODEL 825YA
 - SIZE 3/4", 1", 1 1/4", 1 1/2", 2"
3. TYPE RP
 - MODEL 860LF
 - SIZE 3/4", 1", 1 1/4", 1 1/2", 2", 2 1/2", 3", 4", 6", 8", 10", 12"
4. TYPE DC/DCDA
 - MODEL 850LF
 - SIZE 3/4", 1", 1 1/4", 1 1/2", 2", 2 1/2", 3", 4", 6", 8", 10", 12"
5. TYPE DCDA
 - MODEL 870V LF
 - SIZE 2 1/2", 3", 4", 6", 8", 10"
6. TYPE RP
 - MODEL 880V LF
 - SIZE 2 1/2", 3", 4", 6", 8", 10"
7. TYPE DC
 - MODEL 805LF
 - SIZE 3/4" BYPASS ONLY

WATTS

1. TYPE DC
 - MODEL 007 MIPCQT
 - SIZE 3/4"
2. TYPE DC
 - MODEL 007SSM1
 - SIZE 3/4"
3. TYPE DCDA
 - MODEL 709
 - SIZE 2 1/2", 3", 4", 6", 8", 10"
4. TYPE RP
 - MODEL 009M2LF
 - SIZE 3/4", 1", 1 1/4", 1 1/2", 2"
5. TYPE DCDA
 - MODEL 757, 757N, DCDA ONLY
 - SIZE 2 1/2", 3", 4", 6", 8", 10", 12"

WILKINS ZURN

1. TYPE DC
 - MODEL 350XL
 - SIZE 3/4", 1"
2. TYPE DCDA
 - MODEL 350DCDA/ 350DA/ASTDA
 - SIZE 2 1/2", 3", 4", 6", 8", 10", 12"
3. TYPE DCDA
 - MODEL 450DA
 - SIZE 2 1/2", 3", 4", 6", 8", 10"
4. TYPE DCDA
 - MODEL 350ASTAR/
 - SIZE 2 1/2", 3", 4", 6", 8", 10"
5. TYPE RP
 - MODEL 375XL
 - SIZE 3/4", 1", 1 1/4", 1 1/2", 2"
6. TYPE RP
 - MODEL 475/475V/475ST (STAINLESS STEEL)
 - SIZE 2 1/2", 3", 4", 6", 8", 10"
7. TYPE RP
 - MODEL 375A
 - SIZE 2 1/2", 3", 4", 6", 8", 10"
8. TYPE RP
 - MODEL 975XL2
 - SIZE 3/4", 1", 1 1/4", 1 1/2", 2"

WILKINS ZURN (CONTINUED)

9. TYPE RP

- MODEL 375AST
- SIZE 2 1/2", 3", 4", 6", 8", 10"

10. TYPE DC

- MODEL 950XLD (LF)
- SIZE 3/4" BYPASS ONLY

11. Type RP

Model 975 XL3

Size 3/4", 1", 1 1/4", 1 1/2", 2"