## **CITY OF CORCORAN**



## IMPROVEMENT STANDARDS

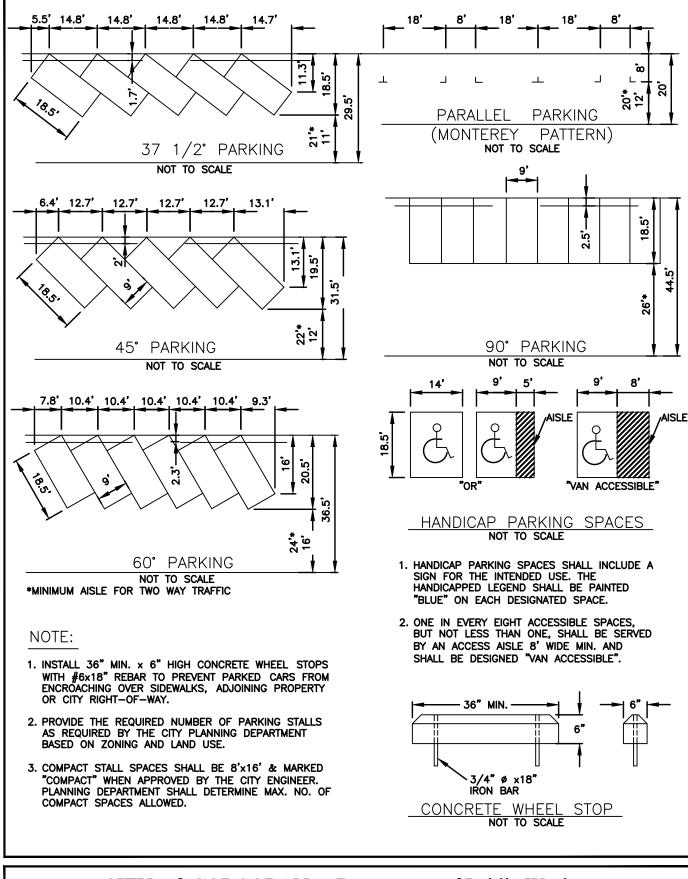


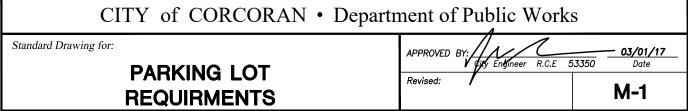


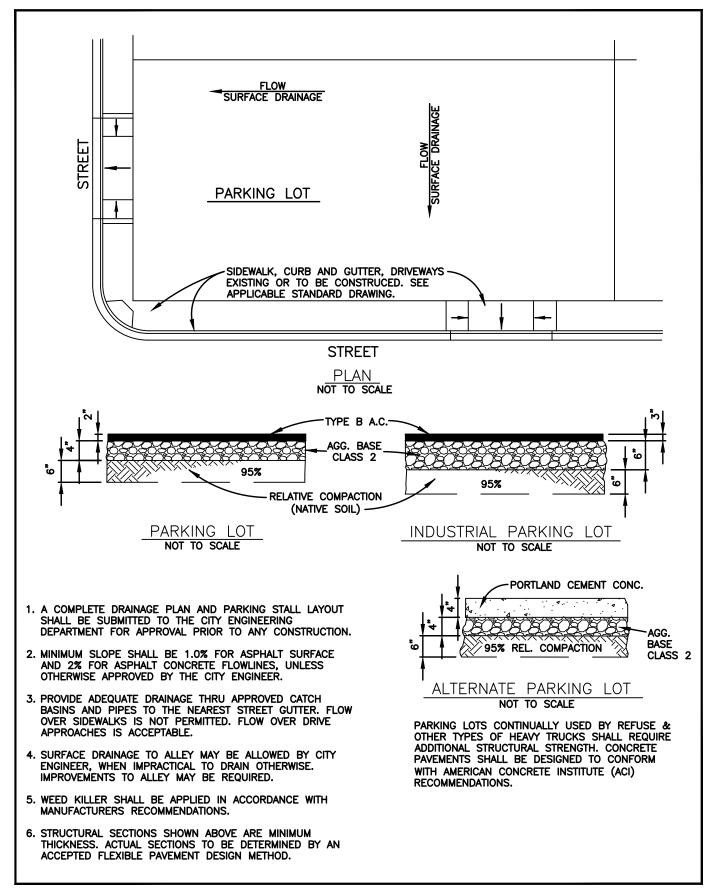
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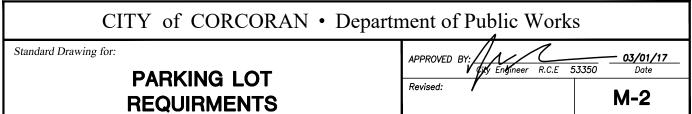
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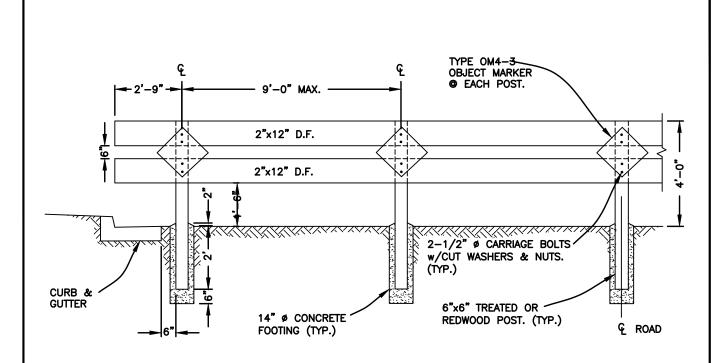
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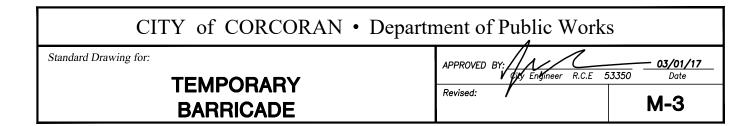


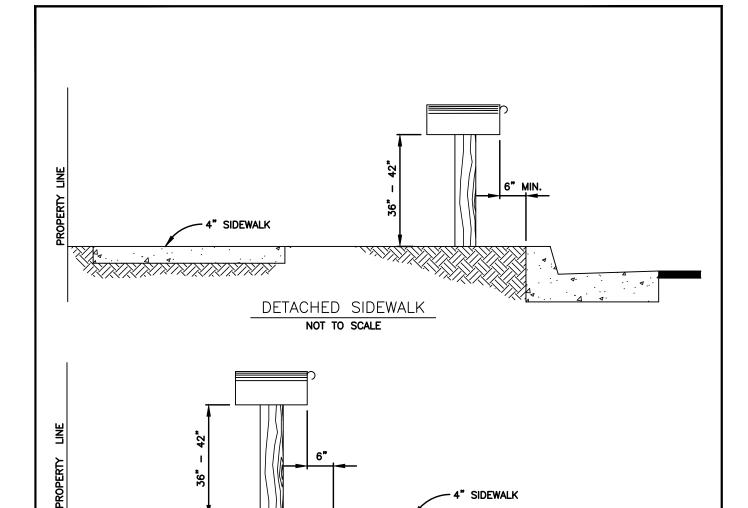






- 1. THE BARRICADE MUST EXTEND ACROSS THE FULL WIDTH OF PAVEMENT.
- 2. WOOD PRESSURE TREATED WITH A PRESERVATIVE MAY BE SUBSTITUTED FOR REDWOOD MATERIAL.
- 3. BARRICADES SHALL BE PAINTED WITH 2 COATS OF COMMERCIAL QUALITY WHITE BEADED ENAMEL. MARKINGS ON BARRICADE RAILS SHALL BE CALIFORNIA DEPT. OF TRANSPORTATION OM4-3 OBJECT MARKER (18"x18" RED REFLECTIVE SIGN WITH BLACK BORDER) ON EACH POST.
- 4. CONCRETE SHALL BE MINIMUM FIVE SACK MIX. (3200 P.S.I. MIN. IN 28 DAYS).

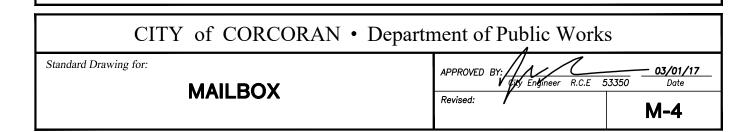


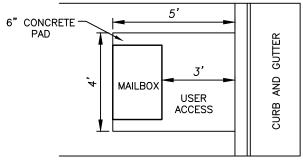


ADJACENT SIDEWALK

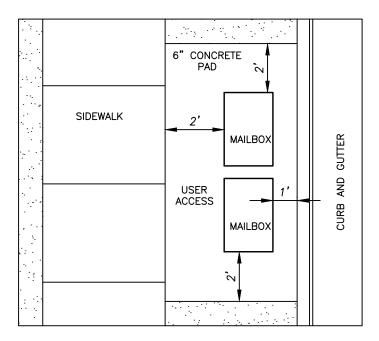
NOT TO SCALE

- 1. MAIL BOXES SHALL BE CLUSTRED IN GROUPS OF 2 MIN.
- 2. EACH MAIL BOX SHALL BE NUMBERED WITH THE ADDRESS OF THE RESIDENCE WHICH IT SERVES.
- 3. THE LOCATION OF MAIL BOXES SHALL BE DETERMINED BY THE PUBLIC WORKS DIRECTOR.
- 4. THE OWNERS ARE RESPONSIBLE FOR ALL MAINTENANCE & REPAIR.
- 5. MAIL BOXES SHALL MEET U.S. POSTAL SERVICE REQUIREMENTS.

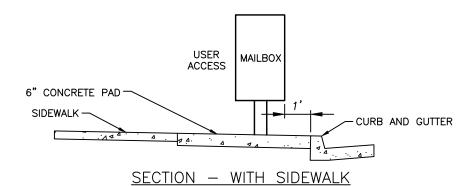




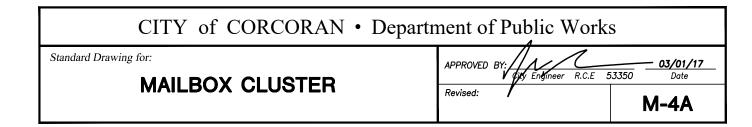
PLAN - WITHOUT SIDEWALK

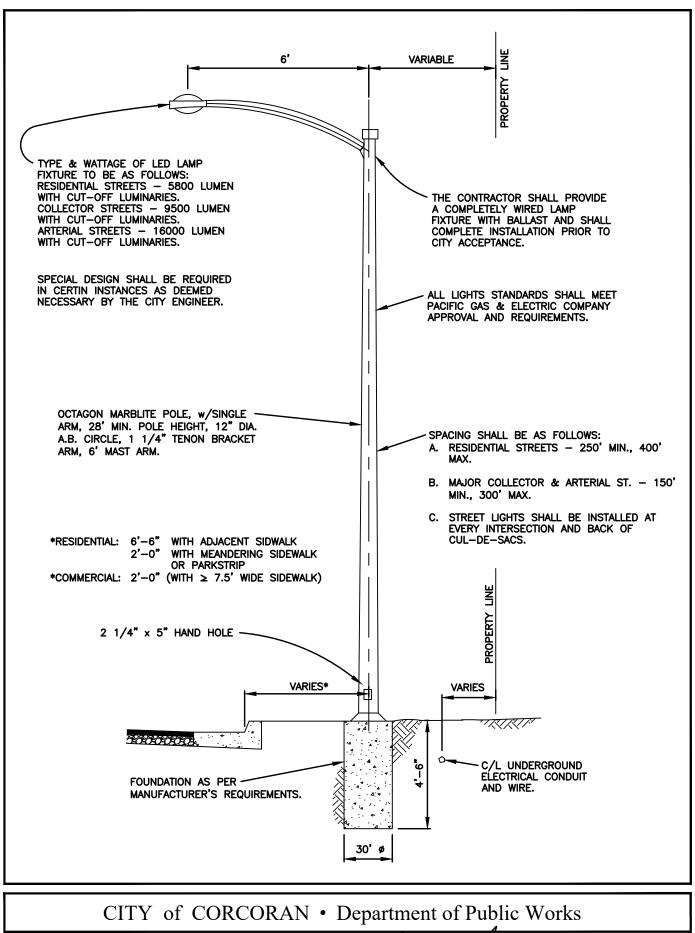


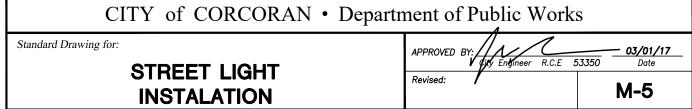
PLAN - WITH SIDEWALK

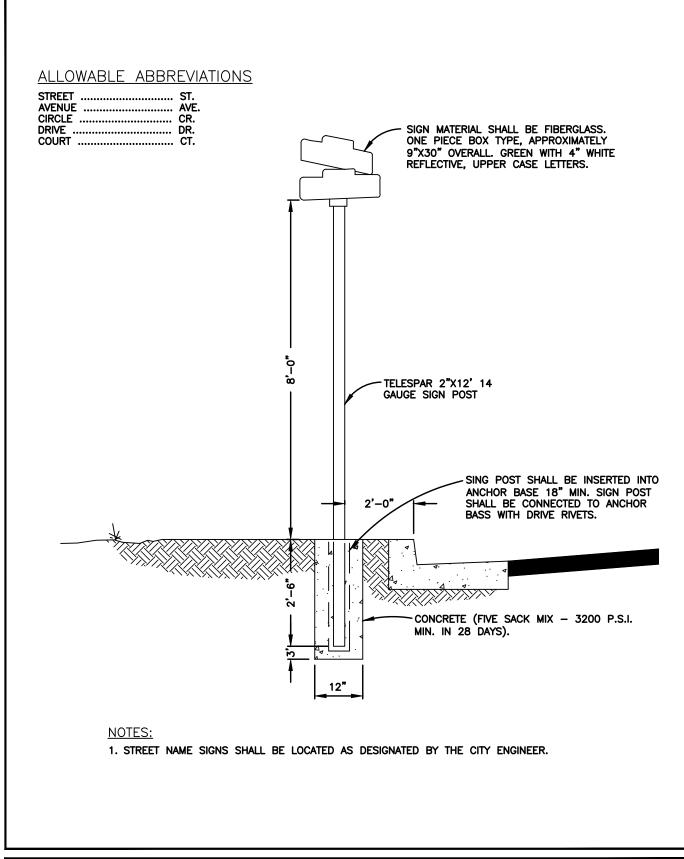


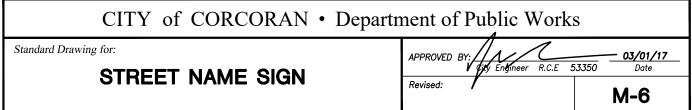
- 1. ALL MAILBOX CLUSTER DESIGNS SHALL BE APPROVED BY THE UNITED STATES POSTAL SERVICE PRIOR TO INSTALLATION.
- 2. ALL MAILBOX CONCRETE PADS SHALL HAVE 4"X6" WELDED WIRE MESH REINFORCEMENT.

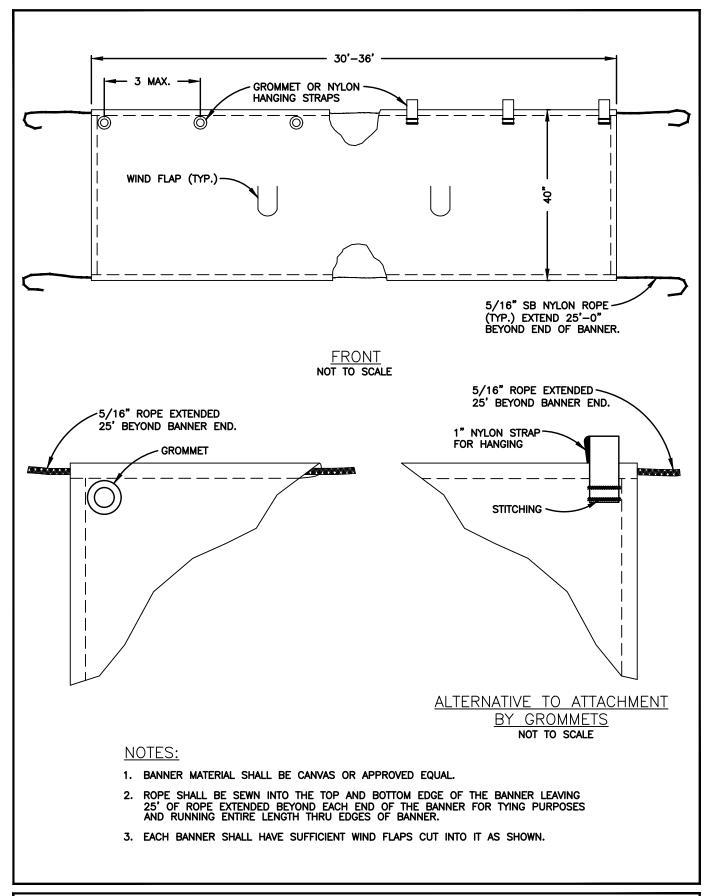


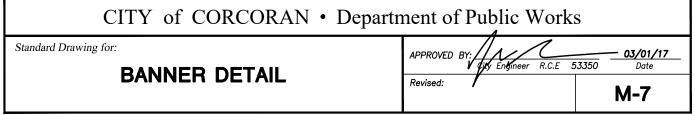












#### REFUSE REQUIREMENTS AND STANDARDS

#### 1. BIN CAPACITY REQUIREMENTS:

BIN CAPACITY REQUIREMENTS SHALL BE BASED ON <u>FOUR APARTMENT UNITS PER ONE YARD OF BIN CAPACITY</u> WITH TWICE A WEEK COLLECTION SERVICE. THE CITY OF CORCORAN USES ONE, TWO AND THREE YARD BINS. ANY COMBINATION OF BIN SIZES MAY BE USED TO MEET THE BIN CAPACITY REQUIREMENTS. REFUSE RATES ARE SET UP FOR UP TO SIX DAY PER WEEK COLLECTION (IF NECESSARY).

#### 2. REFUSE ENCLOSURE REQUIREMENTS:

THE CITY OF CORCORAN REQUIRES THAT ALL REFUSE BINS BE PLACED IN ENCLOSURES. THE REFUSE ENCLOSURES SHALL BE CONSTRUCTED WITH CONCRETE BLOCK.

THE REFUSE ENCLOSURES SHALL BE A MINIMUM OF SIX FEET HIGH. MINIMUM INSIDE ENCLOSURE DIMENSIONS ARE AS FOLLOWS:

ONE-1 YARD BIN - 10 FEET X 10 FEET ONE-2 YARD BIN - 10 FEET X 10 FEET TWO-2 YARD BINS - 10 FEET X 15 FEET ONE-3 YARD BIN - 10 FEET X 10 FEET TWO-3 YARD BINS - 10 FEET X 20 FEFT

#### 3. REFUSE ENCLOSURE ACCESS REQUIREMENTS:

ALL REFUSE ENCLOSURES SHALL BE SITUATED TO MAJOR ROADWAYS AND SHALL NOT BE SITUATED SUCH THAT PARKED VEHICLES BLOCK ACCESS. ALL MAJOR ROADWAYS WHICH MUST BE TRAVELED BY REFUSE TRUCKS SHALL NOT HAVE ANY TURNING RADIUS LESS THAN 30 FEET.

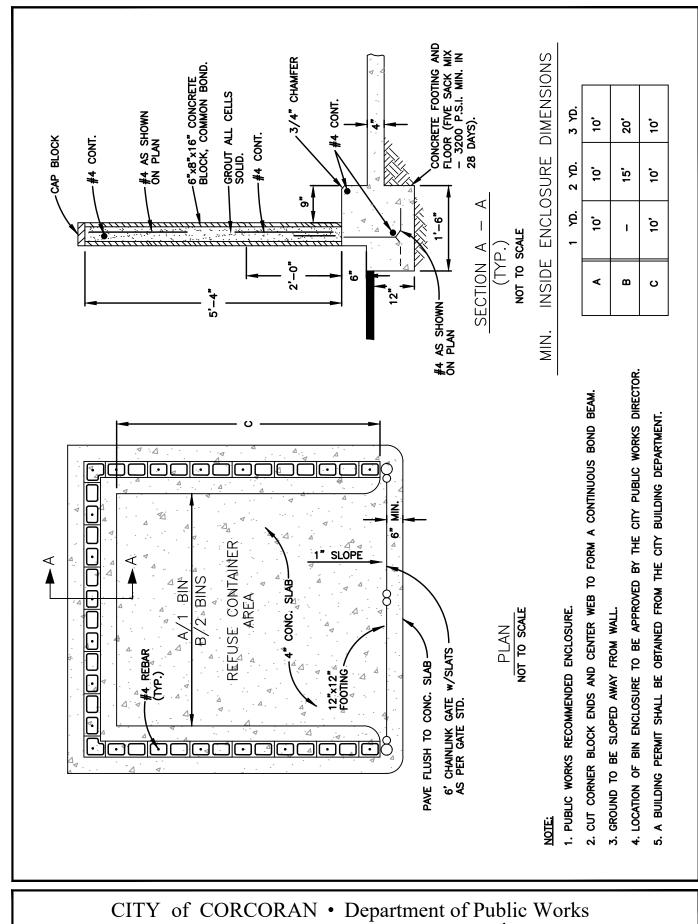
#### 4. REFUSE ENCLOSURE USE REQUIREMENTS:

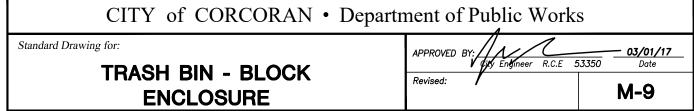
THE ENCLOSURE SHALL BE USED ONLY FOR PLACING REFUSE TO BE PICKED UP BY THE CITY OF CORCORAN REFUSE DIVISION. ALL OTHER USES MUST BE PROVIDED FOR IN A SEPARATE AREA.

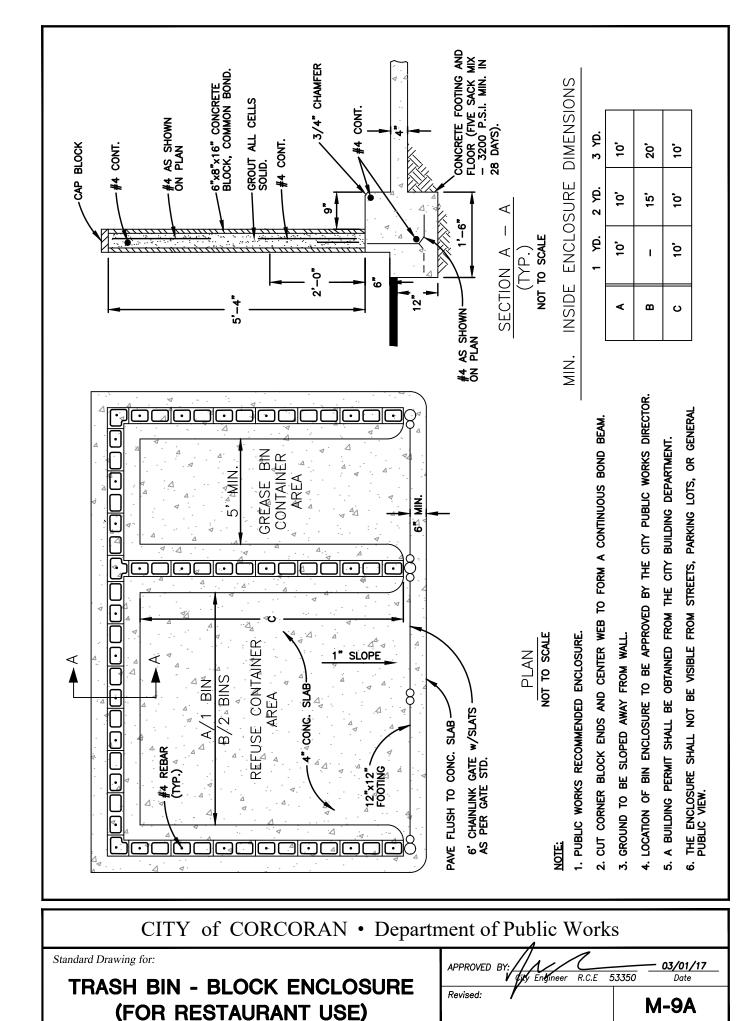
#### 5. SEPARATE RECYCLABLES:

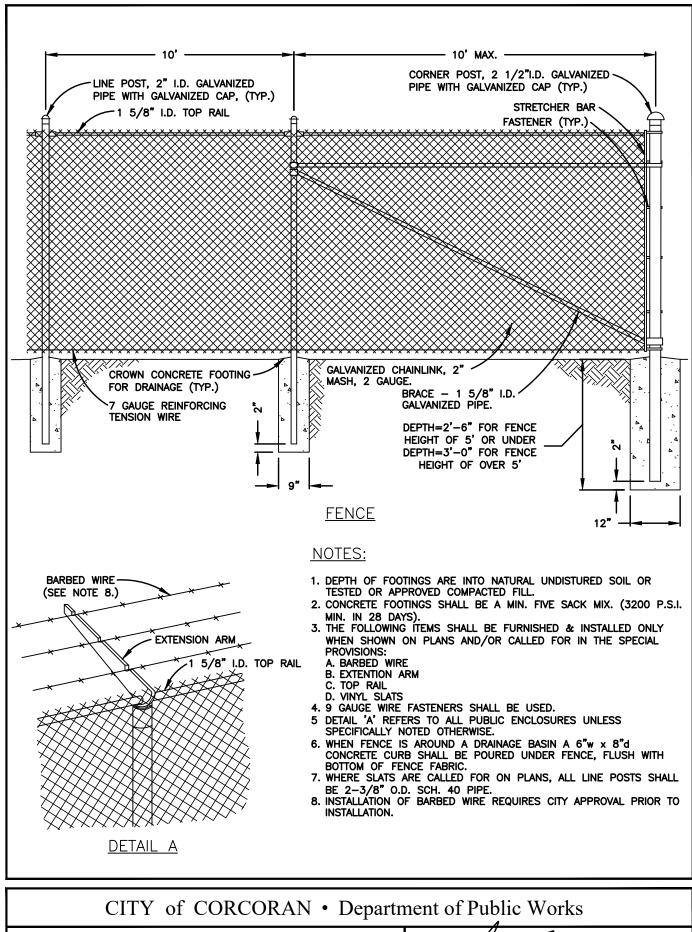
- 1. ALL RESIDENTIAL CUSTOMERS WITHIN THE CITY SERVICE AREA SHALL BE PROVIDED WITH ONCE A WEEK RECYCLABLES CONTAINER SERVICES BY THE AUTHORIZED AGENT IN ACCORDANCE WITH INSTRUCTIONS; RESIDENTIAL CUSTOMERS SHALL SEPARATE AND PLACE RECYCLABES CURBSIDE, OR IN OTHER RECYCLABLES BIN CONTAINER LOCATIONS AS APPROVED AND DIRECTED BY THE CITY, FOR COLLECTION. ALL PERSONS USING THE CITY SOLID WASTE COLLECTION SERVICE OR A DULY PERMITTED COLLECTOR SHALL SEPARATE RECYCLABLES FROM ALL OTHER SOLID WASTE PRODUCED AT THEIR PREMISES.
- 2. AN OWNER, LANDLORD OR AGENT OF AN OWNER OR LANDLORD OF A MULTI-FAMILY RENTAL PROPERTY WITH THREE (3) OR MORE UNITS ON SINGLE WATER SERVICE, SHALL COMPLY WITH ITS SEPARATION RESPONSIBILITIES BY ESTABLISHING A COLLECTION AND STORAGE SYSTEM FOR SEPARATED RECYCLABLES AT EACH PREMISES.
- 3. ANY FAILURE BY A RESIDENTIAL CUSTOMER, OWNER, LANDLORD OR AGENT OF AN OWNER TO PROPERLY SEPARATE RECYCLABLES FROM OTHER WASTE AND/OR COMPLY WITH THE REQUIREMENTS OF SUBSECTION 1 OR 2, LISTED ABOVE, AS RELEVANT, MAY RESULT IN CERTAIN FINES AND/OR ADMINISTRATIVE PENALTIES, AS SET FORTH IN SECTION 4-2-12 OF THE CITY CODE. (ORD. 582, 3-23-2005)

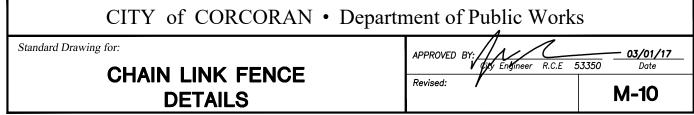
CITY of CORCORAN • Departm	nent of Public Work	S
Standard Drawing for:	APPROVED BY:	
REFUSE REQUIREMENTS	Revised:	M-8

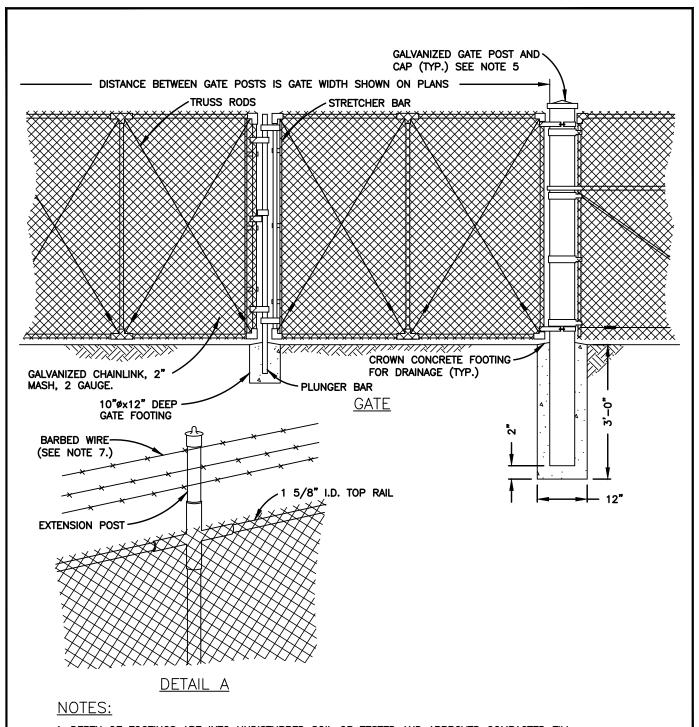






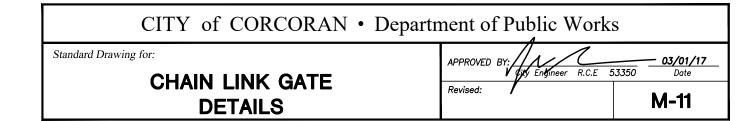


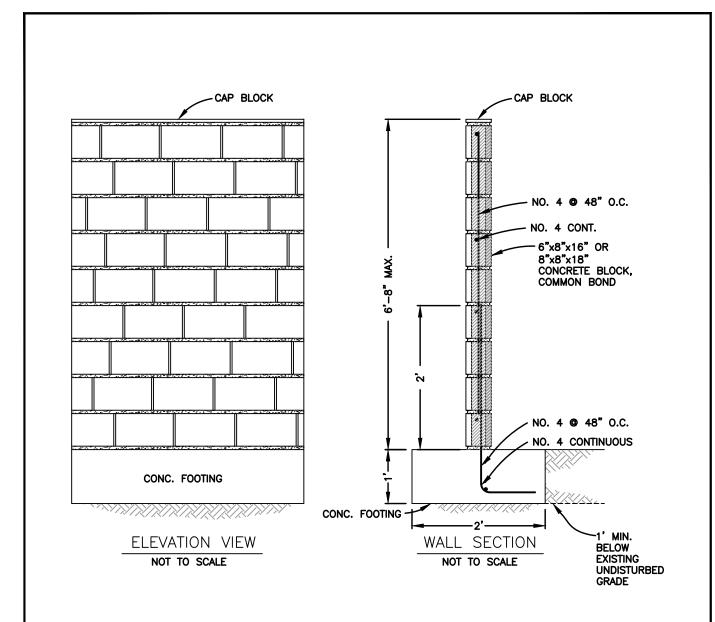




- 1. DEPTH OF FOOTINGS ARE INTO UNDISTURBED SOIL OR TESTED AND APPROVED COMPACTED FILL.
  2. CONCRETE FOOTINGS SHALL BE A MIN. 5 SACK MIX AND TEST TO A MIN. OF 3200 P.S.I. IN 28 DAYS.
  3. THE FOLLOWING ITEMS SHALL BE FURNISHED AND INSTALLED ONLY WHEN SHOWN ON PLANS AND/OR CALLED FOR IN THE SPECIAL PROVISIONS:

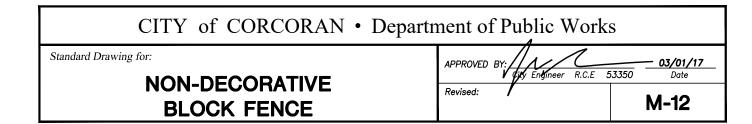
  A. BARBED WIRE
  B. EXTENSION ARM
  4. 12 GAUGE WIRE FASTENERS SHALL BE USED.
  5. GATE POSTS USE 2 1/2" I.D. PIPE FOR DOUBLE GATE WIDTHS UP TO 12' AND 4" I.D. PIPE FOR DOUBLE GATE WIDTHS 12' TO 24'.
  6. DETAIL 'A' REFERS TO ALL PUBLIC ENCLOSURES UNLESS SPECIFICALLY NOTED OTHERWISE.
  7. INSTALLATION OF BARBED WIRE REQUIRES CITY APPROVAL PRIOR TO INSTALLATION.

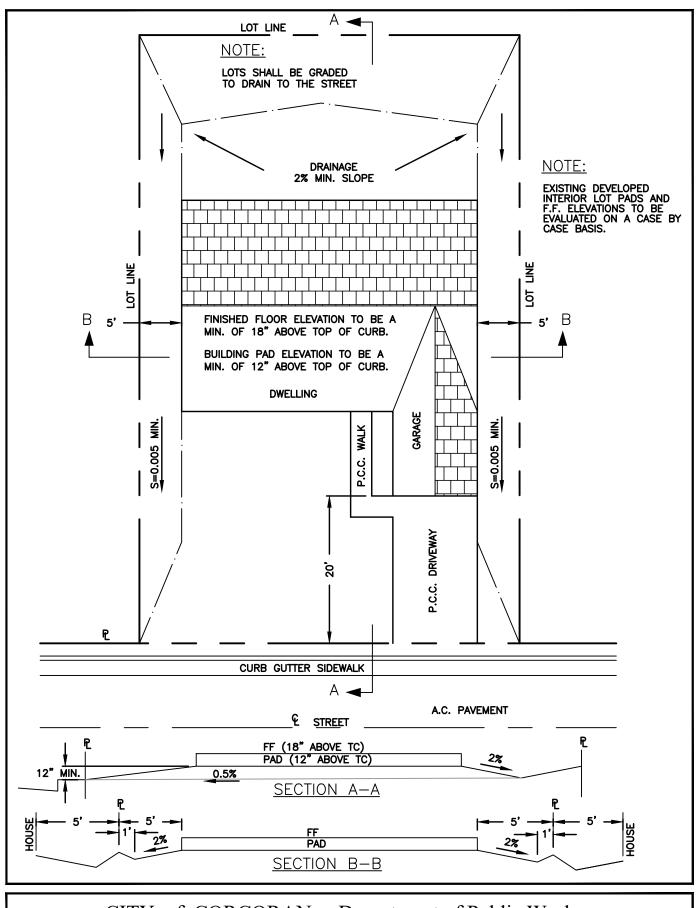


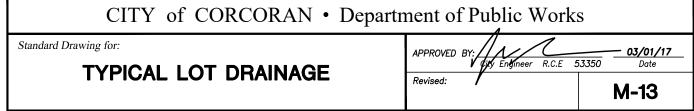


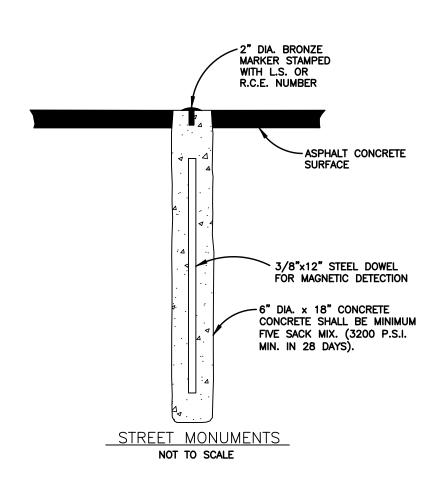
- 1. LATEST EDITION OF THE CBC SHALL BE COMPLIED WITH.

- WALL THICKNESS SHALL BE EITHER 6" OR 8".
   GROUT TO BE PLACED AT LOCATION OF VERTICAL REINFORCING BARS.
   MORTAR SHALL CONSIST OF PORTLAND CEMENT AND SAND MEETING TYPE "S" REQUIREMENTS AS PER LATEST ADOPTED BUILDING CODE.
- A BUILDING PERMIT IS REQUIRED FOR THE INSTALLATION OF A BLOCK FENCE.
- 6. CONCRETE SHALL BE MINIMUM FIVE SACK MIX. (3200 P.S.I. MIN. IN 28 DAYS).



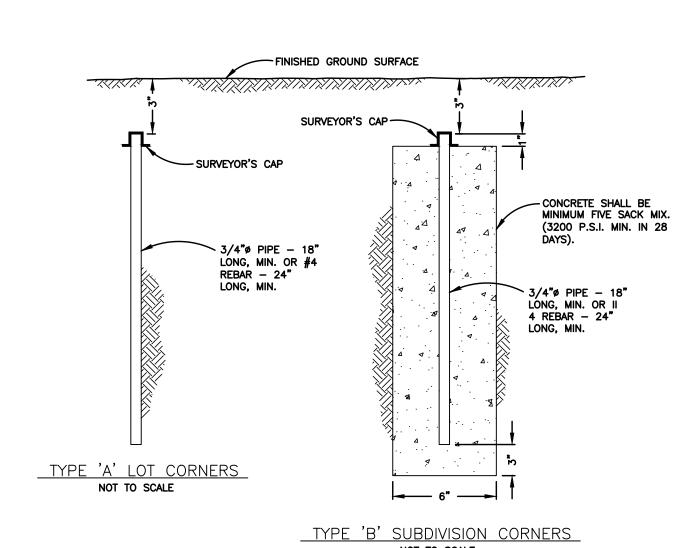






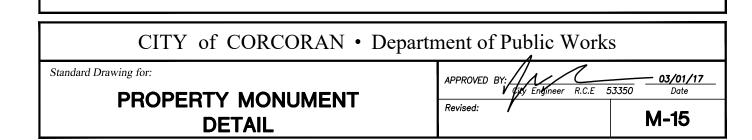
- STATE LAW REQUIRES ALL CORNERS TO BE TAGGED WITH LAND SURVEYORS OR REGISTERED CIVIL ENGINEERS NUMBER.
- 2. STREET MONUMENTS SHALL BE USED TO LOCATE ALL ANGLE AND CURVE POINTS ON THE CENTERLINES OF ASPHALT CONCRETE SURFACED SUBDIVISION STREETS.
- 3. ADDITIONAL MONUMENTS MAY BE REQUIRED AT THE DISCRETION OF THE CITY ENGINEER.

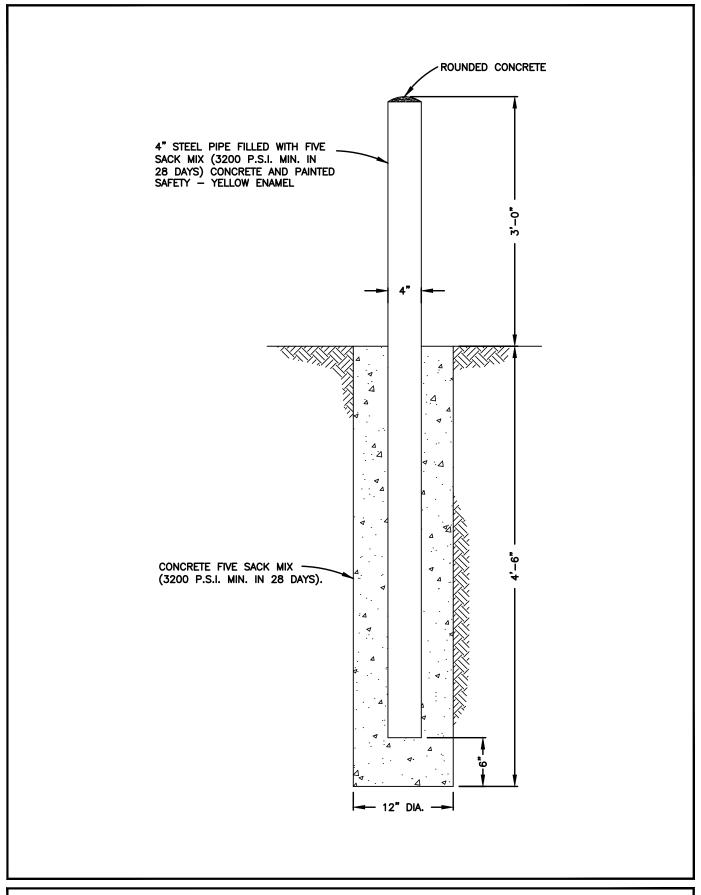
CITY of CORCORAN • Department of Public Works				
Standard Drawing for:	APPROVED BY:			
STREET MONUMENT DETAIL	Revised: M-14			

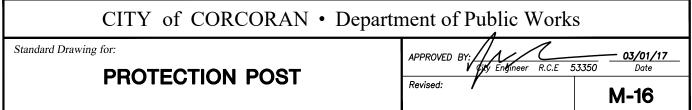


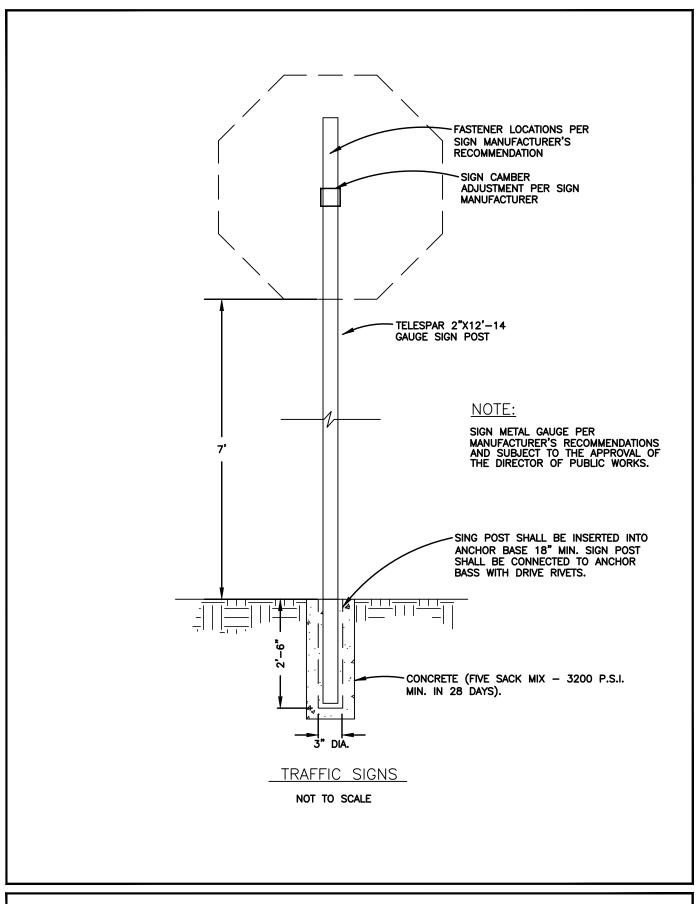
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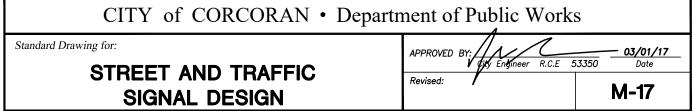
- 1. STATE LAW REQUIRES ALL CORNERS TO BE TAGGED WITH LAND SURVEYORS OR REGISTERED CIVIL ENGINEERS NUMBER.
- 2. ALL SUBDIVISION LOT CORNERS SHALL BE TYPE 'A'.
- 3. REGULAR-SHAPED SUBDIVISIONS SHALL HAVE BLOCK CORNERS MARKED TYPE 'B' IRREGULAR-SHAPED SUBDIVISIONS SHALL HAVE ALL ANGLE AND CURVE POINTS MARKED WITH TYPE 'B'.

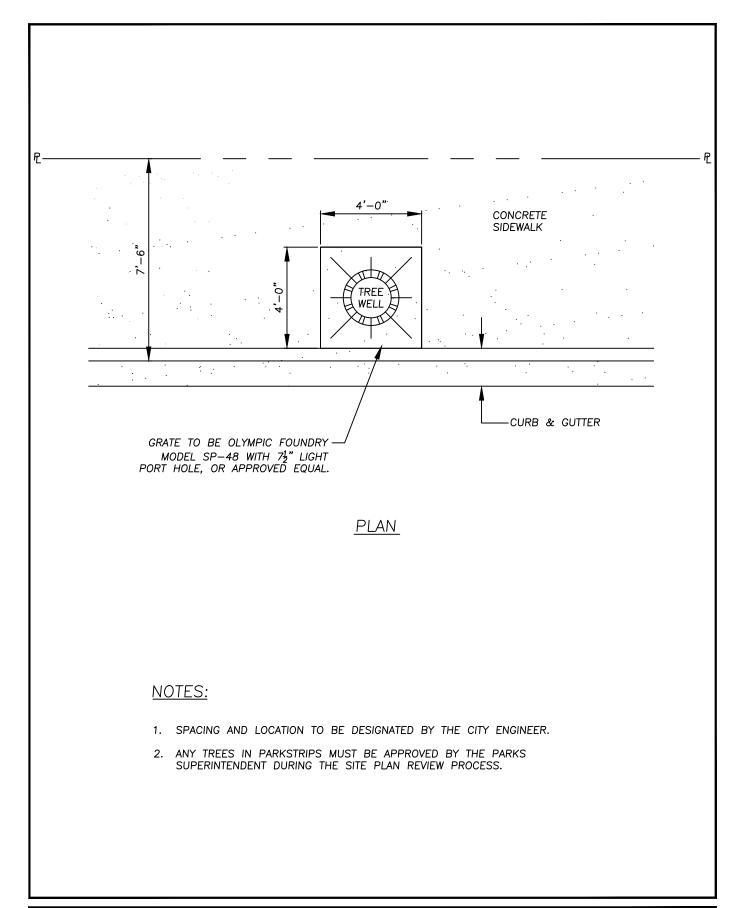


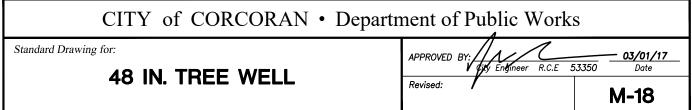


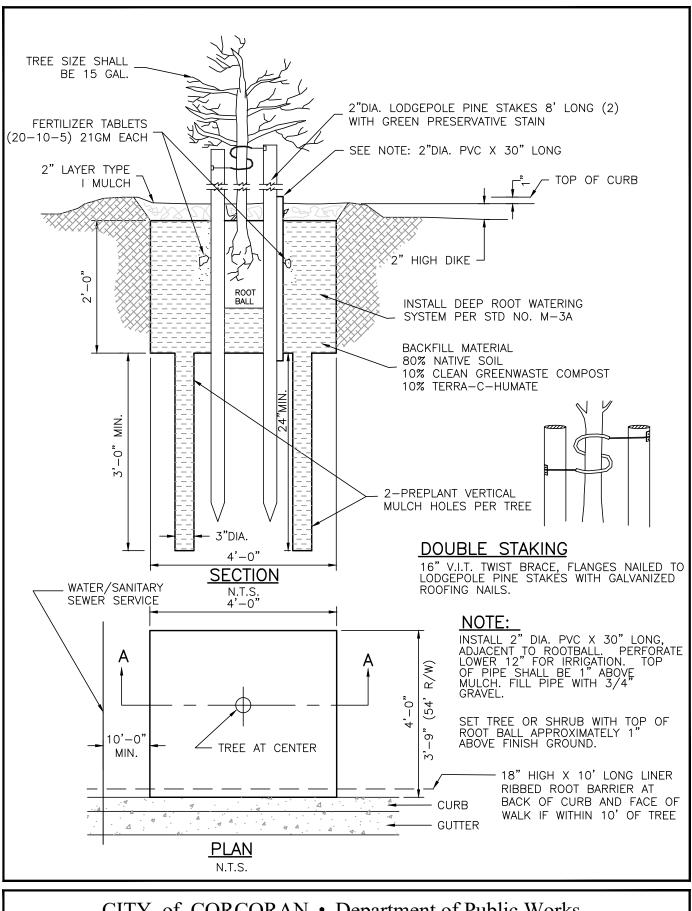


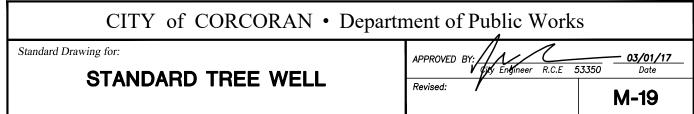


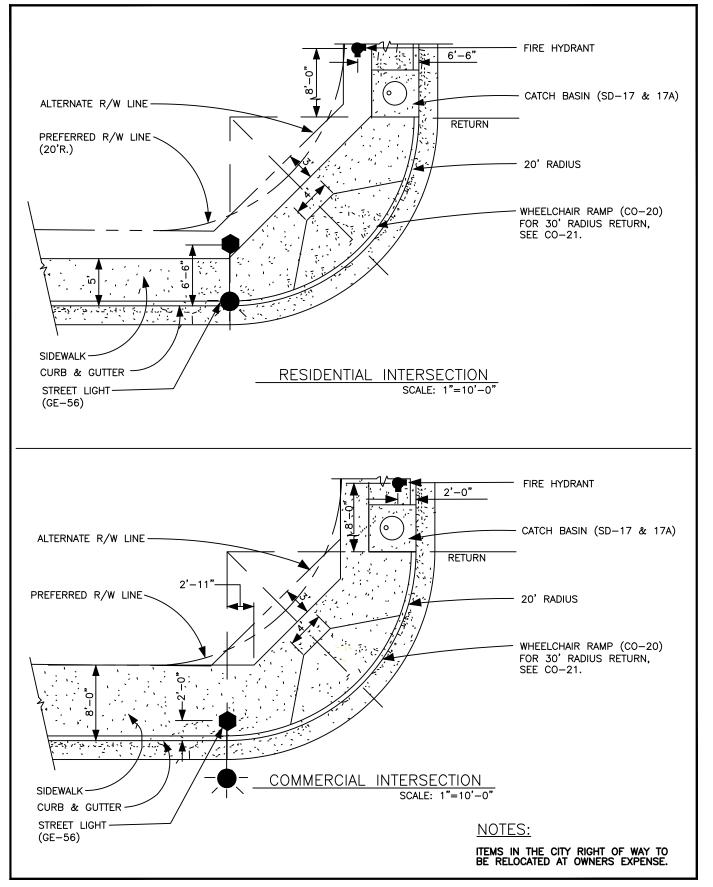














#### STREET CRITERIA

IN ORDER TO CLARIFY OUR REQUIREMENTS FOR THE COMPACTION OF STREET SUBGRADE AND BASE MATERIALS, THE FOLLOWING CRITERIA SHALL APPLY:

MAXIMUM DENSITY - OPTIMUM MOISTURE RELATIONSHIPS, (COMPACTION TESTS), WILL BE DETERMINED IN ACCORDANCE WITH TEST METHOD NO. CALIF. 216 OR 231

SUBGRADE SHALL BE:

- 1. COMPACTED TO A RELATIVE COMPACTION OF 95 PERCENT FOR ALL SOIL MATERIAL, (COHESIVE, NON-FREE DRAINING MATERIAL) AND NON-COHESIVE, FREE DRAINING MATERIAL.
- 2. COMPACTED TO A RELATIVE COMPACTION OF 95 PERCENT FOR GRANULAR MATERIAL, (NON-COHESIVE, FREE DRAINING MATERIAL).

AGGREGATE BASE SHALL BE COMPACTED TO A 95 PERCENT RELATIVE COMPACTION.

ASPHALT CONCRETE PAVEMENT SHALL BE COMPACTED TO A 95 PERCENT RELATIVE COMPACTION.

CLASS I, II, AND III BACKFILL FOR TRENCHES SHALL BE COMPACTED TO 95 PERCENT, RELATIVE COMPACTION WITHIN TOP 3 FEET IN STREET SECTION, AND 90 PERCENT, RELATIVE COMPACTION IN REMAINDER OF TRENCH.

THE REQUIREMENTS FOR MAXIMUM DENSITY-OPTIMUM MOISTURE RELATIONSHIPS FOR ALL OTHER FILLS AS SPECIFIED IN THE GRADING ORDINANCE SHALL APPLY TO THOSE FILLS PLACED ON PRIVATE PROPERTIES OUTSIDE OF STREET RIGHTS-OF-WAY.

Standard Drawing for:

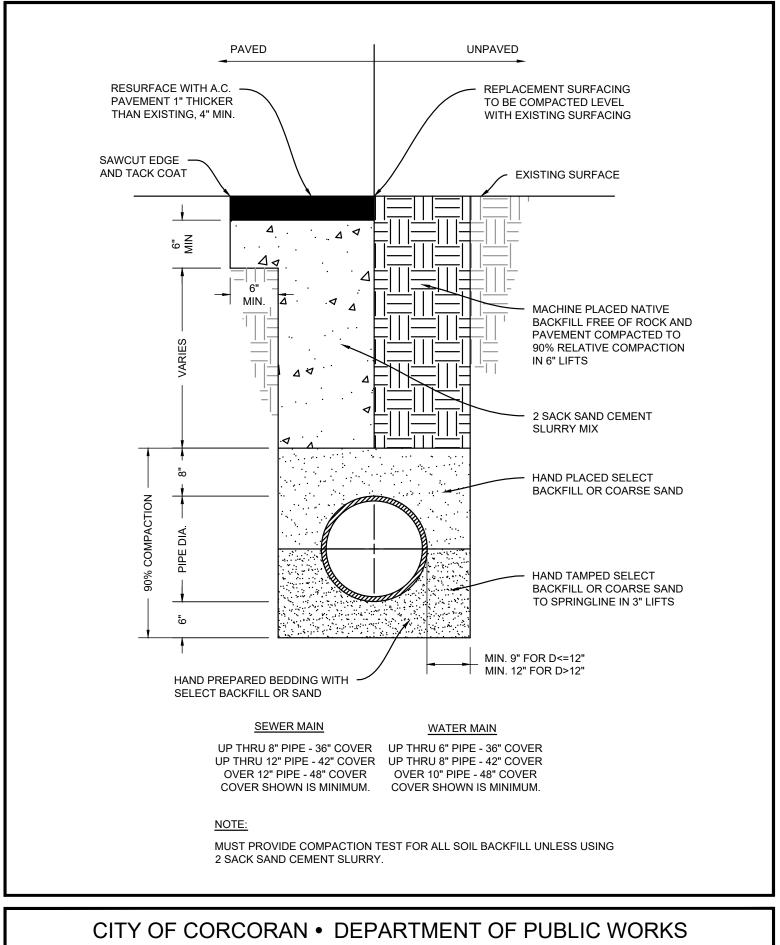
STREET CRITERIA

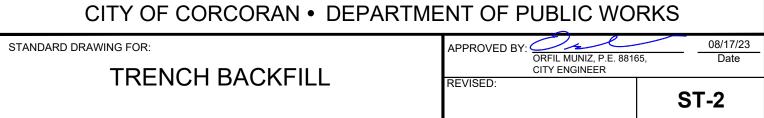
APPROVED BY: Engineer R.C.E 53350

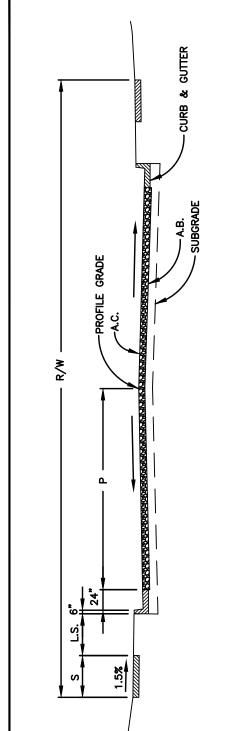
Revised:

ST-1

Date







	STREET	SECTION	TABLE		
TYPE OF STREET		R∕w	ij	A.C. (MIN)	A.C. (MIN) A.B. (MIN.)
ARTERIAL		116'-124'	7.5	3"	8"
COLLECTOR		96,-106	9	3"	.9
MINOR COLLECTOR/LOCAL		26,-60,	2	2"	4"
LOCAL CUL-DE-SAC		26,-60,	2	2"	4"

# LEGEND

 $R/W = -\frac{RIGHI-OF-WAY}{R}$  INCREASE IN "P" FROM THE VALUES GIVEN IN THE ABOVE

TABLE WILL REQUIRE A CORRESPONDING INCREASE IN R/W.

A.C. & A.B.-MIN. GIVEN. AN INCREASED THICKNESS WILL BE REQUIRED AS FOLLOWS:

1. BASED UPON TRAFFIC INDEX CALCULATIONS APPROVED BY THE CITY OF CORCORAN.

2. TESTS SHALL BE TAKEN AT EVERY INTERSECTION OR EVERY 500° WHICH EVER IS LESS FOR

"R" VALUES AND RESULTS SHALL BE SUBMITTED WITH DESIGN CALCULATIONS.

 $P - - - PAVED WIDTH - \frac{1}{2} ST.$ 

L.S. - - - LANDSCAPE AREA

S - - - -<u>Sidewalk</u> - A full width sidewalk will be required on commercial streets Designated by the city engineer as pedestrian oriented

- A CONSTANT USED IN THE DESIGN OF FLEXIBLE PAVEMENT BASED ON THE ESTIMATED VOLUME ON TRUCK TRAFFIC (EWL) T.I. VALUES SPECIFIED ARE - - TRAFFIC INDEX ı ≓

MINIMUMS ALLOWED — IN NO CASE WILL A STREET SECTION DESIGN BE APPROVED USING TI. VALUES LESS THAN THE MINIMUM LISTED ABOVE.

CITY of CORCORAN • Department of Public Works

Standard Drawing for:

STREET SUMMARY SHEET

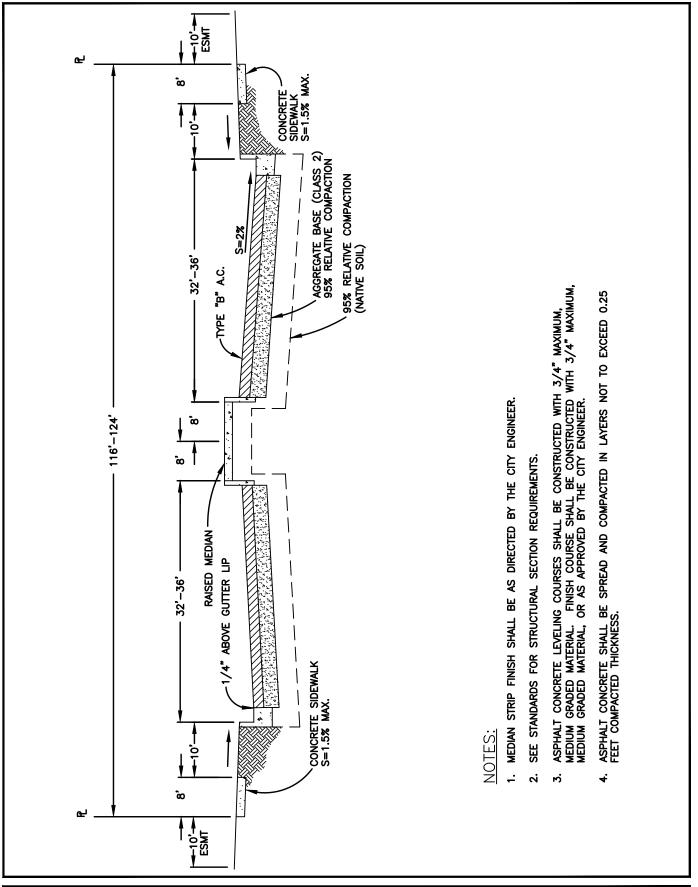
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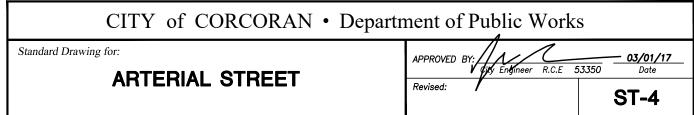
Engineer R.C.E 53350

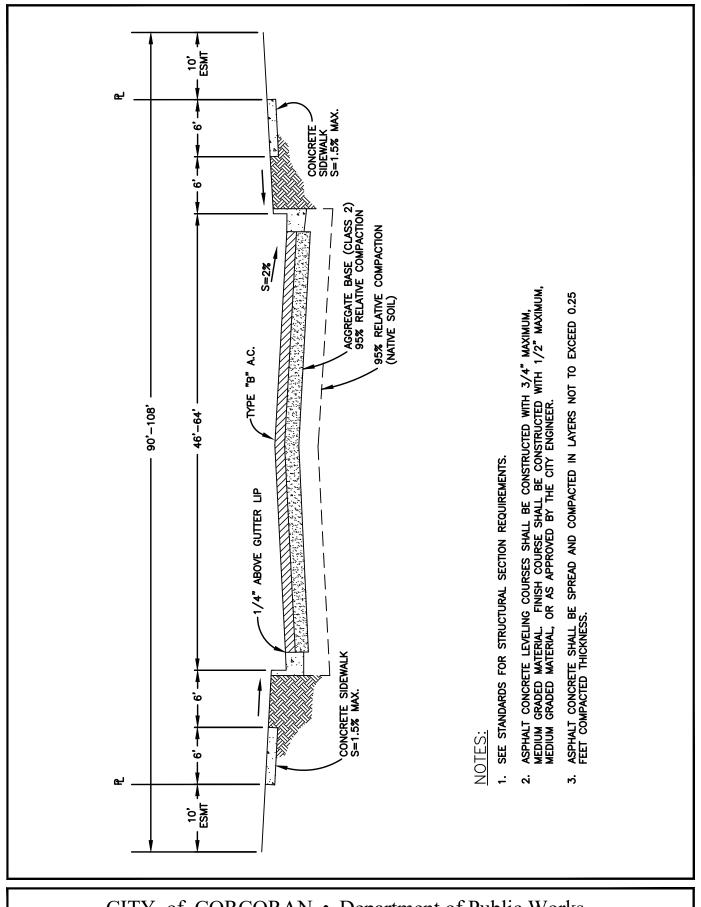
03/01/17 Date

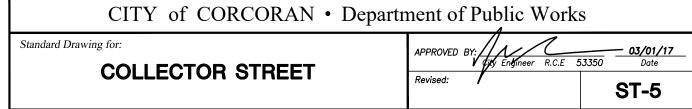
Revised:

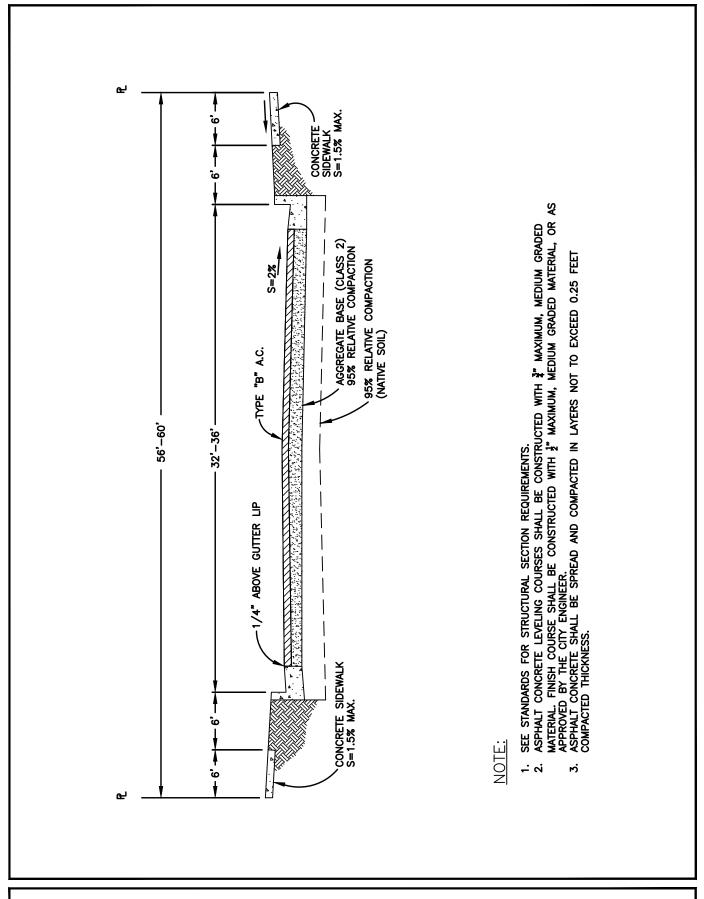
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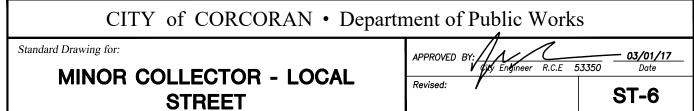


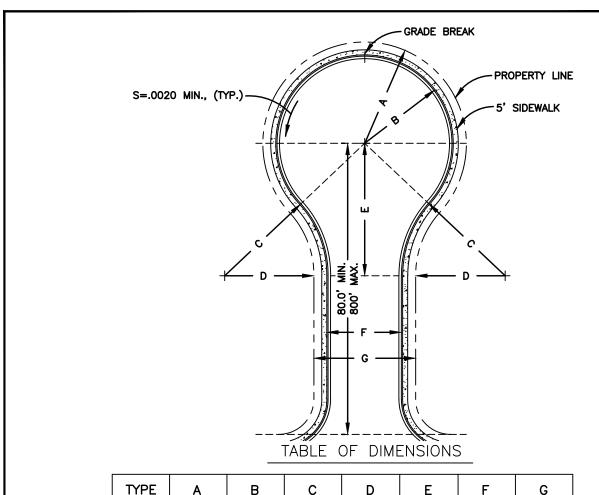




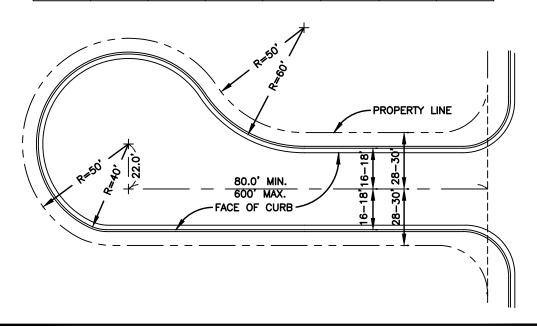




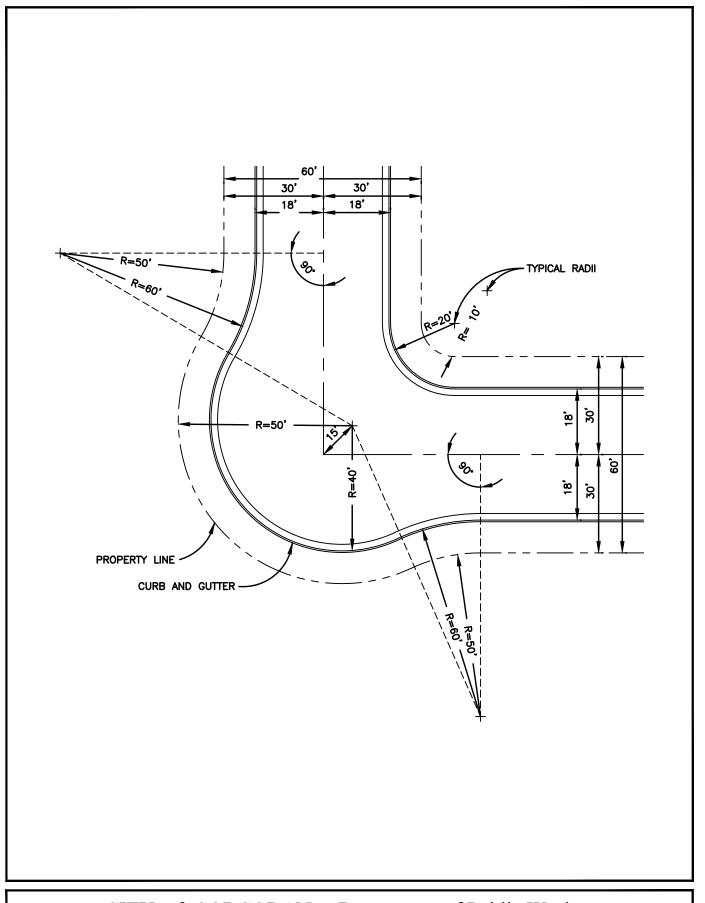


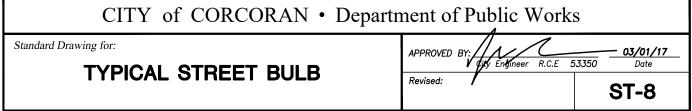


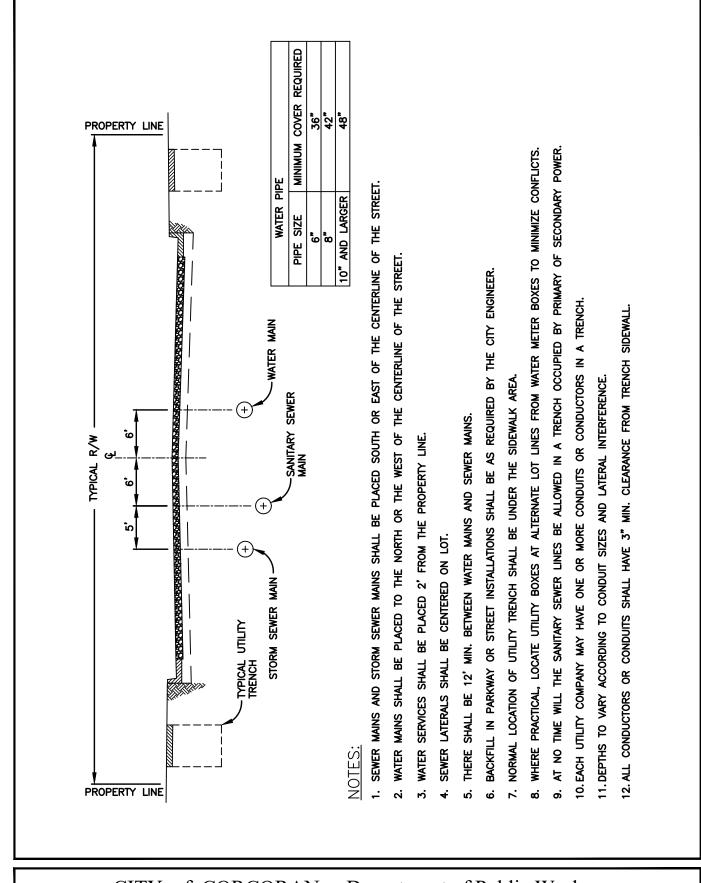
TYPE	Α	В	С	D	E	F	G
60' R/W	50'	40'	60'	50'	60'	36'	60'
56' R/W	50'	40'	60'	50'	62.58'	32'	56'

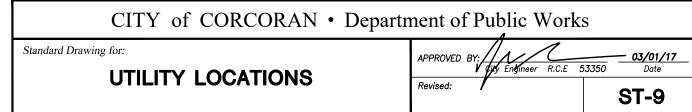


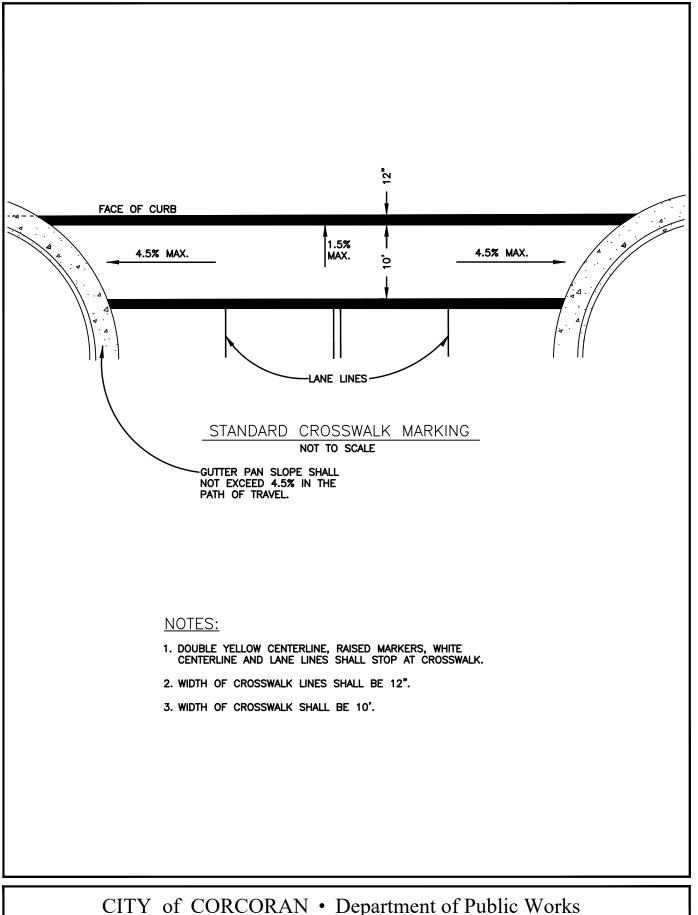
CITY of CORCORAN • Departr	nent of Public Work	S
Standard Drawing for:	APPROVED BY:	
TYPICAL CUL-DE-SAC	Revised:	ST-7

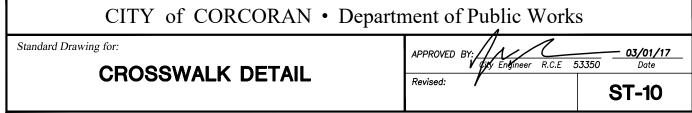


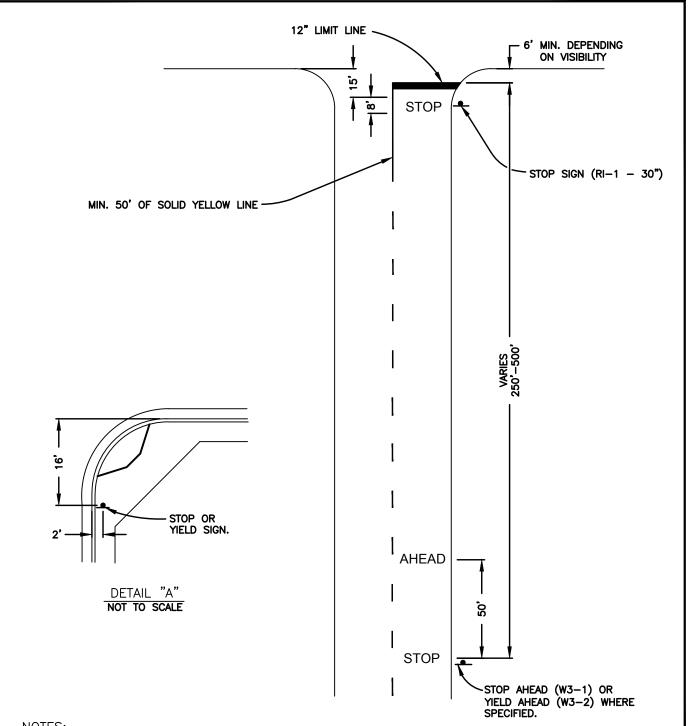




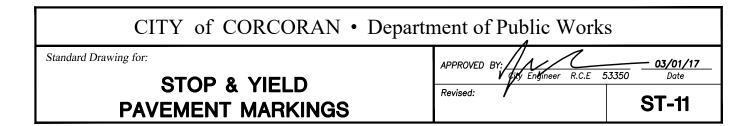


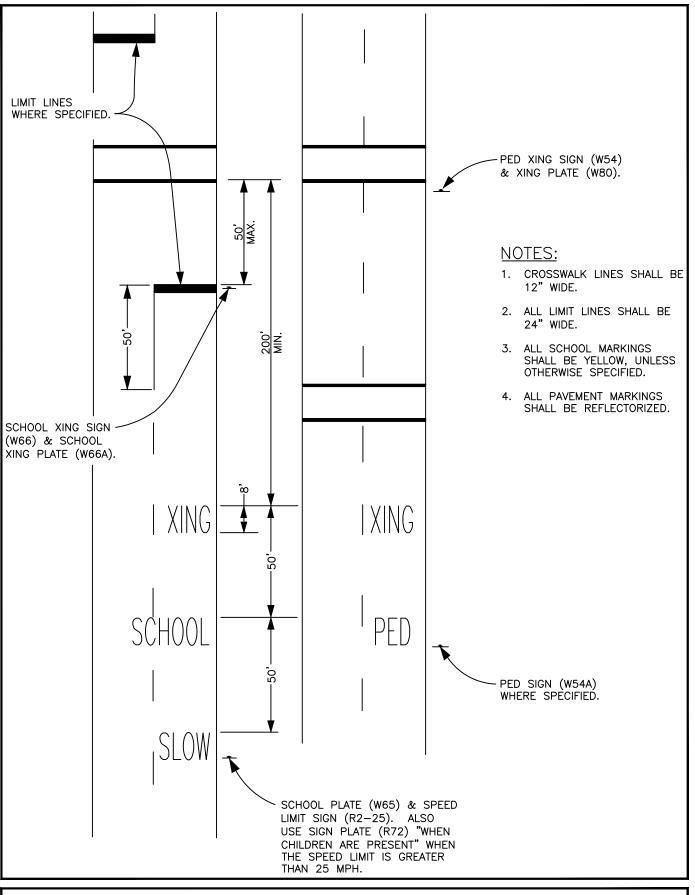




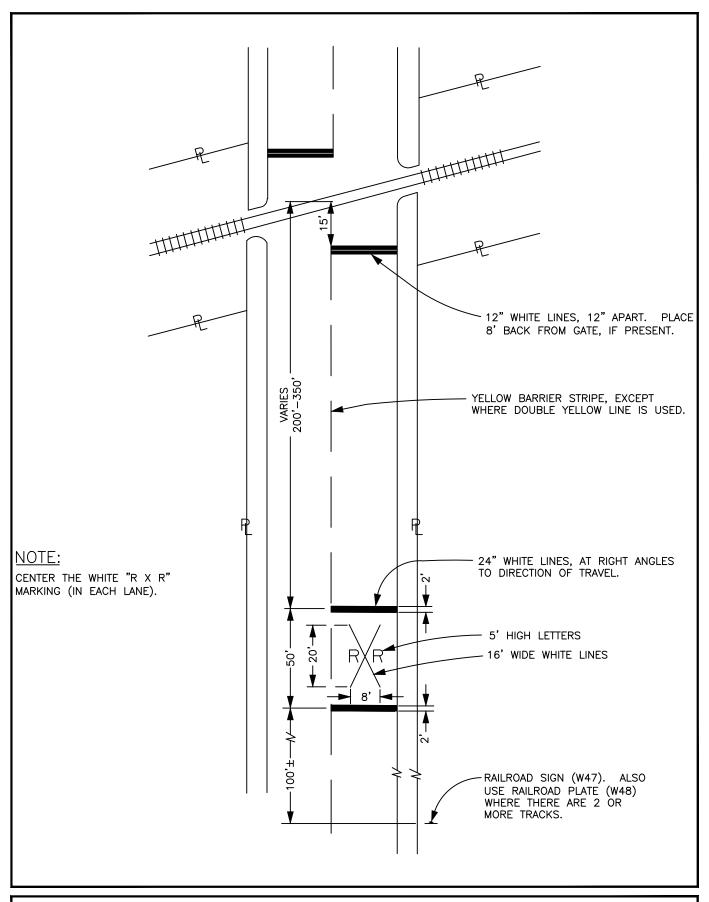


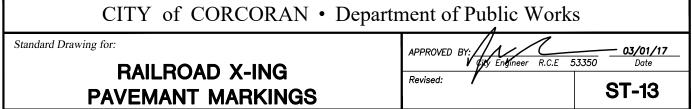
- 1. "STOP" LEGEND TO BE LOCATED APPROXIMATELY 15' BACK OF CURB LINE OR EDGE OF TRAVEL LANE.
- 2. USE "STOP AHEAD" MARKINGS AT SPECIFIED LOCATIONS ONLY.
- 3. STOP SIGN IS NORMALLY LOCATED AS SHOWN IN DETAIL "A" OR AT A POINT OF OPTIMUM VISIBILITY. THE DISTANCE BETWEEN A STOP SIGN AND LIMIT LINE SHALL NOT EXCEED 50'.
- 4. OMIT LIMIT LINE AT CROSSWALK LOCATIONS.

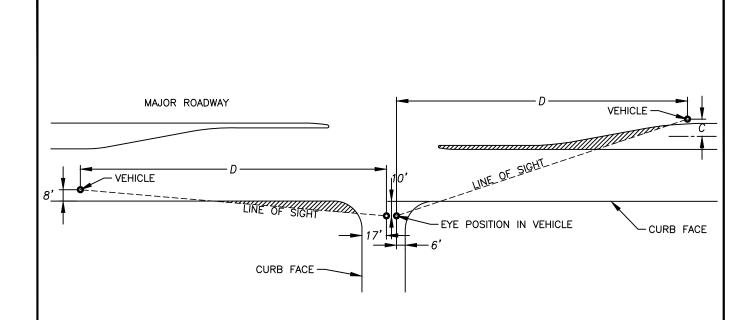












- HATCHED AREAS SHALL BE LIMITED TO VEGETATION THAT WILL NOT EXCEED 30" IN HEIGHT ABOVE PAVEMENT.
- 2. DISTANCE "C" 2' WITH CENTERLINE OR  $\frac{1}{2}$  MEDIAN WIDTH PLUS 3'.
- 3. SEE STREET SPACING STANDARD IN LANDSCAPE DESIGN MANUAL FOR TREE PLACEMENT GUIDELINES.

LOCAL	COLLECT	ARTERIAL	HIGH SP ARTERIAL
[	DESIGN SF	PEED (M.F	<sup>2</sup> .H.)
30	40	50	60
205'	308'	431'	590'
	30	DESIGN SF	DESIGN SPEED (M.F

CITY of CORCORAN • Department of Public Works			
Standard Drawing for:	APPROVED BY: Jik Engineer R.C.E 5		
SIGHT DISTANCE	Revised:	ST-14	

#### 1. REASON FOR CURB AND GUTTER:

CURB AND GUTTER IS REQUIRED TO PROTECT THE EDGE OF THE PAVEMENT, TO CHANNEL STORM DRAINAGE TO COLLECTION POINTS, TO DEFINE THE RIGHT-OF-WAY FOR VEHICULAR TRAFFIC, TO MAKE BETTER USE OF THE CITY'S STREET SWEEPING PROGRAM, AND TO PROTECT PEDESTRIAN SIDEWALK TRAFFIC. IT IS OUR OPINION THAT CURB AND GUTTER REDUCES THE CITY'S STREET MAINTENANCE COSTS. A SECONDARY BENEFIT IS THAT IT ALSO ESTABLISHES REFERENCE POINTS FOR PROPERTY LINES AND SHOWS WHERE UNDERGROUND UTILITIES ARE STUBBED OUT.

#### 2. REASON FOR SIDEWALKS

THE PRINCIPAL REASON FOR A SIDEWALK IS PEDESTRIAN SAFETY. THE SIDEWALK GIVES THE PEDESTRIAN A PLACE TO WALK OUTSIDE OF THE VEHICULAR TRAVEL LANES. THE CITY'S EXPERIENCE HAS BEEN THAT GRADED OR GRAVELED AREAS HAVE NOT BEEN A SATISFACTORY REPLACEMENT FOR SIDEWALKS AS PROPERTY OWNERS' PLANTS, VEGETATION, LANDSCAPING, OR FENCES FORCE PEOPLE INTO THE STREET.

#### 3. REQUIREMENT BY PERMIT

GENERALLY, CURB, GUTTER AND SIDEWALK ARE REQUIRED FOR ALL NEW DEVELOPMENT IN THE CITY. THESE REQUIREMENTS OCCUR IN SEVERAL AREAS UNDER CITY PROCEDURES:

#### A. **BUILDING PERMITS**

PURSUANT TO TITLE 10 OF THE CORCORAN CITY CODE, ANY PERSON OBTAINING A BUILDING PERMIT IS REQUIRED TO CONSTRUCT CURB, GUTTER AND SIDEWALK ALONG ALL PUBLIC STREET FRONTAGE ADJACENT TO THE LOT. IN ADDITION, THE DEVELOPER IS REQUIRED TO PAVE BETWEEN THE EDGE OF THE EXISTING ROAD AND THE GUTTER.

IN SITUATIONS WHERE IT IS NOT POSSIBLE TO SET GRADES FOR THE IMPROVEMENTS, THE PROPERTY OWNER MUST SIGN A "DEFERRED IMPROVEMENT AGREEMENT" THAT ESSENTIALLY PROVIDES THAT CURB, GUTTER AND SIDEWALK WILL BE INSTALLED UPON DEMAND OF THE CITY. THIS AGREEMENT ALSO AMOUNTS TO AN AUTOMATIC "YES" VOTE IN ANY FUTURE ASSESSMENT DISTRICT FOR STREET IMPROVEMENTS.

#### **B. SUBDIVISIONS**

IT IS THE GENERAL POLICY OF THE CITY THAT CURB, GUTTER AND SIDEWALK ARE REQUIRED AS A CONDITION OF APPROVAL OF ANY SUBDIVISION. SIDEWALKS SHALL BE REQUIRED ON BOTH SIDES OF THE STREET UNLESS IT CAN BE SHOWN THROUGH DESIGN OR LOT SIZE (IN EXCESS OF ONE—HALF (1/2) ACRE) THAT ELIMINATION WILL NOT JEOPARDIZE THE PUBLIC SAFETY.

FOR SUBDIVISION BY FINAL MAP, CURB, GUTTER AND SIDEWALK IS REQUIRED AS A CONDITION TO RECORDING THE FINAL MAP. FOR SUBDIVISIONS BY PARCEL MAP, THEY ARE REQUIRED AT THE TIME OF DEVELOPMENT. IT SHOULD BE NOTED THAT THE CITY DOES NOT PERMIT A RESIDENTIAL LOT TO BE CREATED WITHOUT FRONTAGE ON A PUBLIC STREFT.

#### C. USE PERMITS. SITE PLAN REVIEWS, AND VARIANCES

CURB, GUTTER AND SIDEWALK ARE ALSO REQUIED AS A CONDITION OF APPROVAL OF USE PERMITS, SITE PLAN REVIEWS, AND VARIANCES. IN ADDITION, THE DEVELOPER IS ALSO REQUIRED TO PAVE BETWEEN THE EDGE OF EXISTING PAVEMENT AND THE GUTTER. GENERALLY THE CONDITIONS ON THESE APPLICATIONS ARE MORE OF AN INFORMATION ITEM SINCE MOST WOULD FALL UNDER THE BUILDING PERMIT REQUIREMENTS.

#### D. PLANNED DEVELOPMENT AND MOBILE HOME PARKS

PLANNED DEVELOPMENT AND MOBILE HOME PARKS ARE TREATED SOMEWHAT DIFFERENTLY IN THAT CURB, GUTTER AND SIDEWALK ARE ONLY REQUIRED ON THE PUBLIC STREET FRONTAGES. INTERNAL ROADS WITHIN THE PROJECTS ARE PRIVATE, THUS NO SIDEWALK REQUIREMENT IS MADE. USUALLY PLANNED DEVELOPMENTS HAVE THEIR OWN INTERNAL WALKWAY SYSTEM.

CITY of CORCORAN • Department of Public Works			
Standard Drawing for:	APPROVED BY:		
CONCRETE CRITERIA	Revised:		

# 4. ADDITIONAL NOTES:

- A. CROSS SECTIONAL AREA OF CURB AND GUTTER 1.64 sq. ft.
- B. CURB AND GUTTER 1.64 L.F. PER cu. yd. OF CONCRETE.
- C. AN APPROXIMATE 4" FLOW LINE SHALL BE TROWELED SMOOTH.
- D. ALL BROOMING SHALL BE PARALLEL TO THE DIRECTION OF FLOW.
- E. 1/2" PER-MOLDED JOINT FILLER SHALL BE INSTALLED IN EXPANSION JOINTS AT REGULAR INTERVALS NOT EXCEEDING 60', AT THE BEGINNING AND END OF ALL CURB RETURNS AND ALL DRIVEWAYS AND SHALL BE HELD FIRMLY IN PLACE PRIOR TO PLACING CONCRETE. WEAKENED PLANE JOINTS SHALL BE PLACED AT 10' INTERVALS.
- F. IF SLIP FORM EQUIPMENT IS USED, CONTROL JOINTS SHALL BE SAW CUT TO A DEPTH OF 2" AT LOCATIONS AS SPECIFIED IN NOTE E. THE TOP 3/4" OF THE CONTROL JOINT SHALL BE FILLED WITH A POLYURETHANE SEALANT (SILAFLEXT - 1A OR EQUAL).
- G. ALL WORK TO BE DONE AND ALL MATERIALS SUPPLIED SHALL CONFORM TO THE "STANDARD SPECIFICATIONS, DEPARTMENT OF TRANSPORTATION, STATE OF CALIFORNIA" LATEST EDITION.
- H. HUNT PROCESS CURING COMPOUND SHALL BE APPLIED TO FRESH CONCRETE BY ROLLING, BRUSHING OR
- I. ALL CONCRETE SHALL BE A MINIMUM 5 SACK MIX AND TEST TO A MINIMUM OF 3200 P.S.I. IN 28 DAYS.

CITY of CORCORAN •	Department of Publ	ic Works
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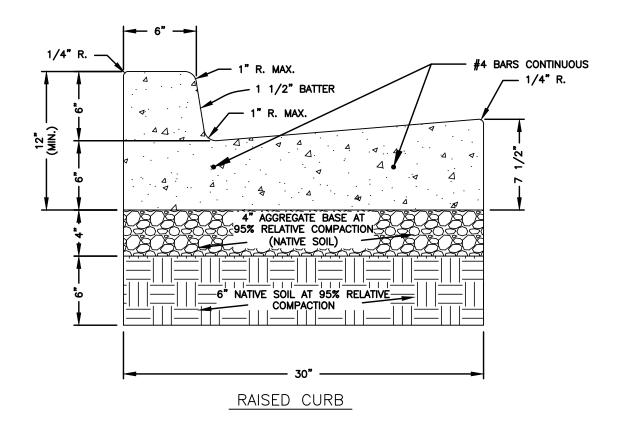
Standard Drawing for:

**CONCRETE CRITERIA** 

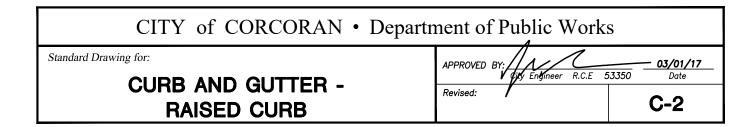
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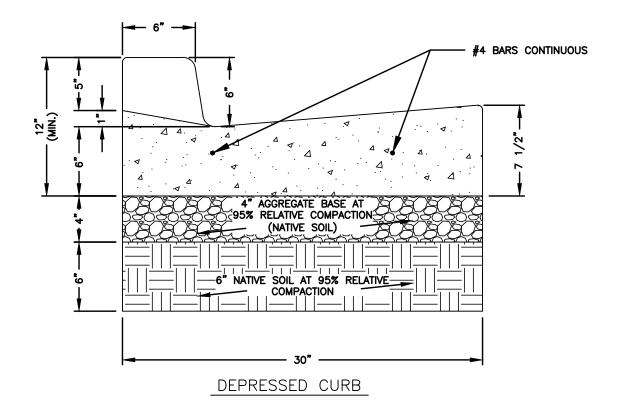
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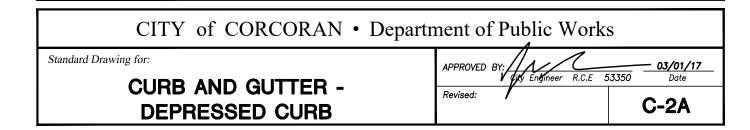


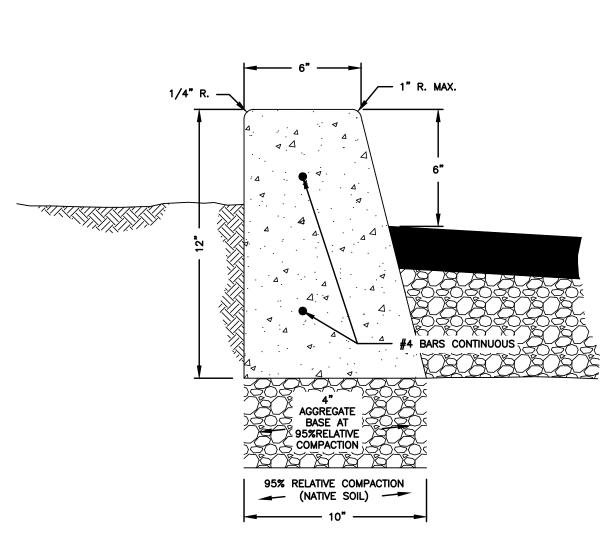
- 1. FORMS TO REMAIN FOR A MIN. OF 24 HOURS.
- 2. WOOD FORMS SHALL HAVE A NORMAL THICKNESS OF 2", EXCEPT ON CURVE CONSTRUCTION WHERE THE THICKNESS SHALL BE DETERMINED BY THE CITY INSPECTOR.
- 3. MINIMUM GRADE FOR CURB & GUTTER SHALL NEVER BE LESS THAN .0015 SLOPE, EXCEPT CURVE PORTIONS OF CUL-DE-SAC STREETS WHICH SHALL HAVE .0020 SLOPE MINIMUM.
- 4. 1"x2" LINE & GRADE STAKES ARE TO BE SET 3' FROM FACE OF CURB. STAKE SPACING SHALL BE 25' MAX. FOR A SLOPE OF .0015 AND 50' MAX. FOR SLOPES OF .0020 OR MORE (OR EQUIVALENT CONTROLS).
- 5. SEE CONCRETE NOTES AND CITY STANDARD SPECIFICATIONS.
- 6. FILL AND GRADE AREA BEHIND CURB AS DIRECTED BY THE CITY OF CORCORAN.





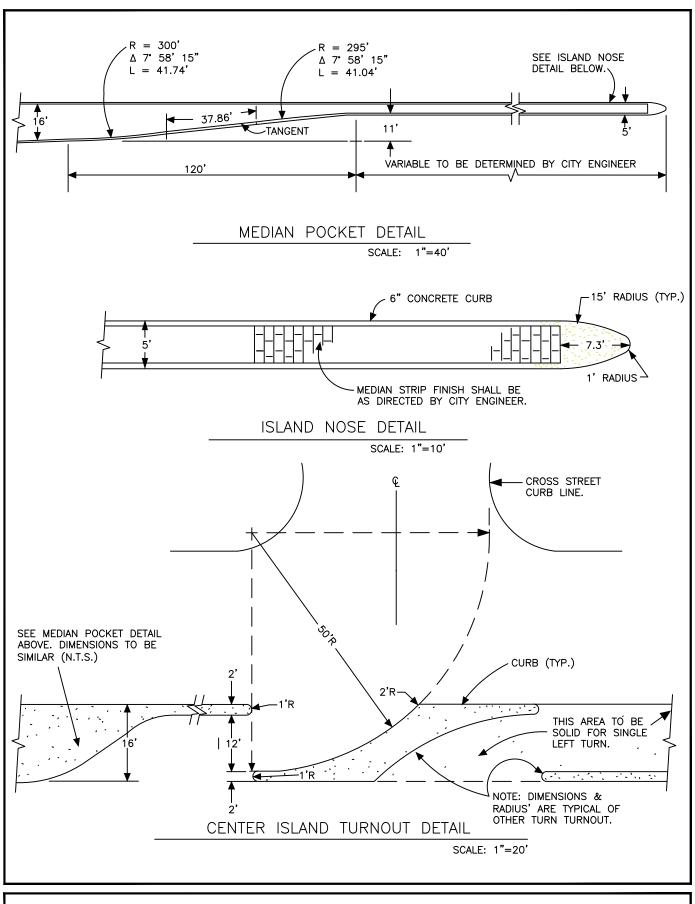
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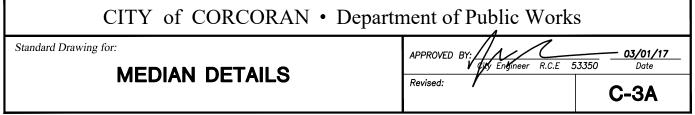


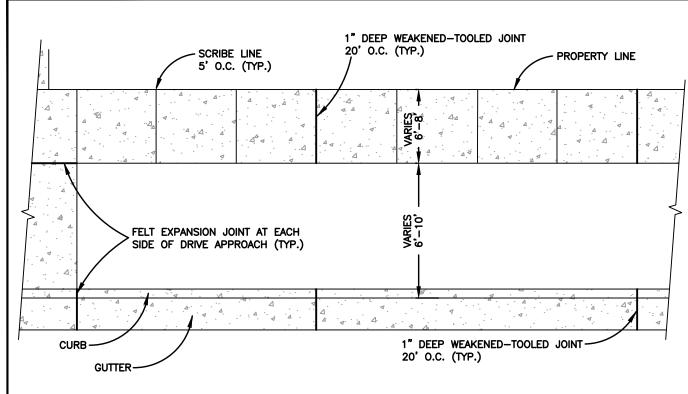


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- 5. SEE CONCRETE NOTES AND CITY STANDARD SPECIFICATIONS.

CITY of CORCORAN • Department of Public Works				
Standard Drawing for:	APPROVED BY: July Engineer R.C.E			
MEDIAN CURB	Revised:	C-3		

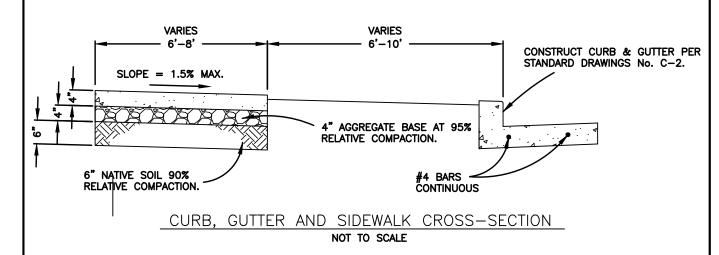




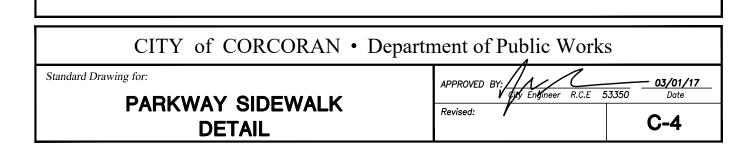


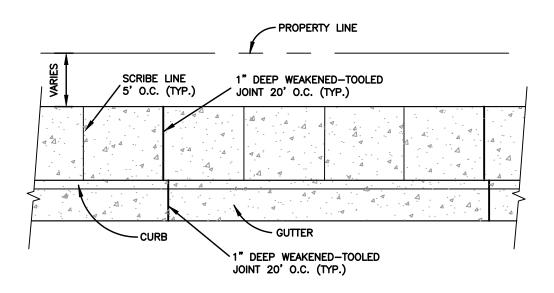
CURB, GUTTER & SIDEWALK SCRIBE LINE DETAIL

NOT TO SCALE

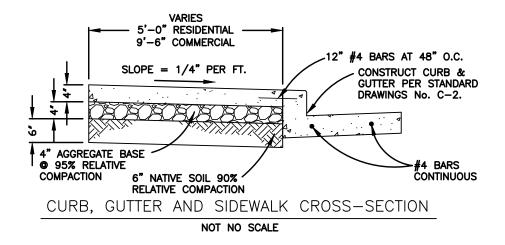


- 1. FORMS TO REMAIN FOR A MIN. OF 24 HOURS.
- 2. WOOD FORMS SHALL HAVE A NOMINAL THICKNESS OF 2", EXCEPT ON CURVE CONSTRUCTION WHERE THE THICKNESS SHALL BE DETERMINED BY THE CITY ENGINEER.
- 3. SEE CONCRETE NOTES (C-1) AND CITY STANDARD SPECIFICATIONS.
- 4. EXPANSION JOINTS SHALL BE INSTALLED WITHIN CURVILINEAR SIDEWALKS AT MIN. 60 FEET O.C.
- 5. CONCRETE SHALL BE MINIMUM FIVE SACK MIX. (3200 P.S.I. MIN. IN 28 DAYS).





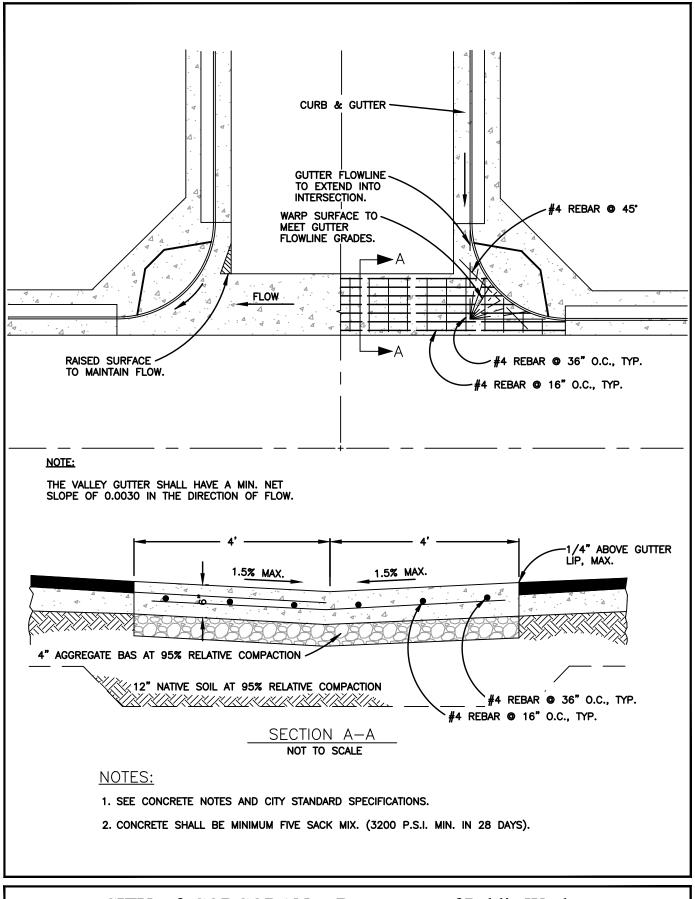
# CURB, GUTTER & SIDEWALK SCRIBE LINE DETAIL NOT TO SCALE

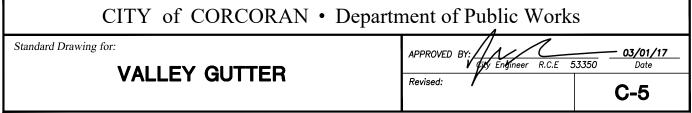


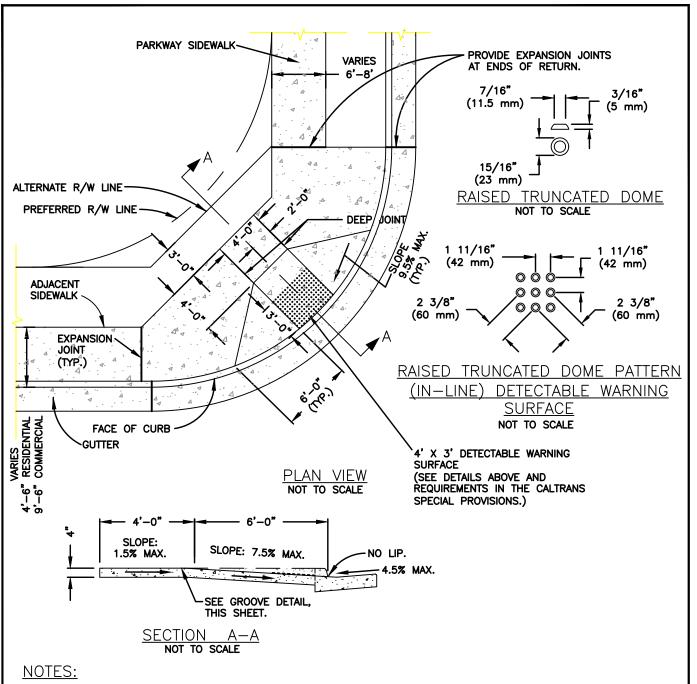
# NOTES:

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# CITY of CORCORAN • Department of Public Works Standard Drawing for: ADJACENT SIDEWALK DETAIL APPROVED BY: APPROVED BY: APPROVED BY: Revised: C-4A

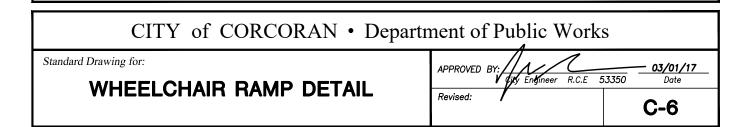


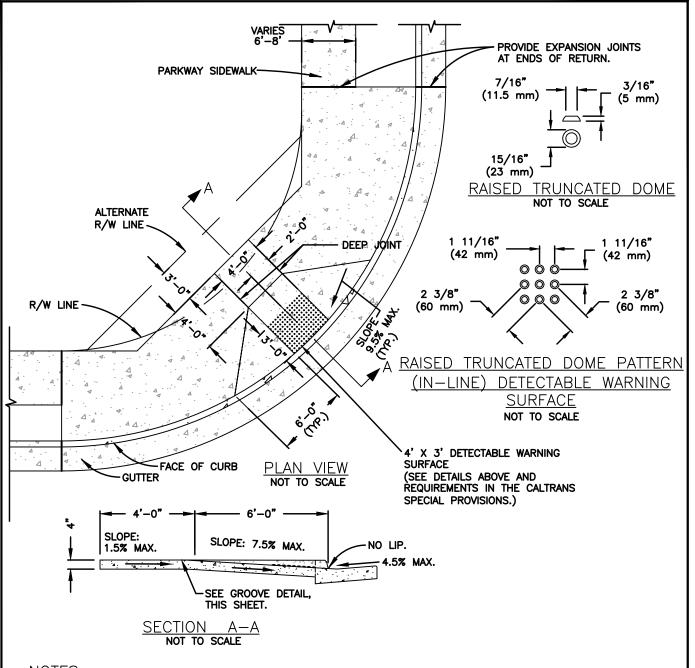




- 1. RAMPS SHALL HAVE NO ABRUPT CHANGES IN ELEVATION OR ANGLE OF SLOPE.
- 2. SIDEWALK & RAMP THICKNESS SHALL BE 4". COMPACT 6" SUBGRADE TO 95% MINIMUM.
- 3. ARTERIAL AND MAJOR COLLECTOR STREET INTERSECTIONS (ARTERIAL—ARTERIAL, ARTERIAL—MAJOR, MAJOR—MAJOR) SHALL HAVE 30' MIN. RADIUS RETURNS WHERE FEASIBLE. ALL OTHER STREETS SHALL REQUIRE A 20' MIN. RADIUS RETURN.
- 4. THERE SHALL BE A 0.30' MIN. SLOPE AROUND A TYPICAL RETURN.
- 5. FORMS TO REMAIN FOR A MIN. OF 24 HOURS.

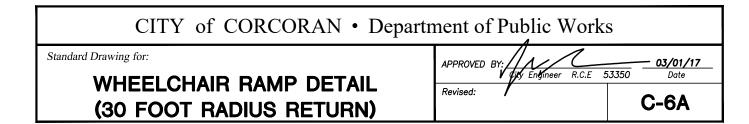
- 6. THERE SHALL BE NO SIDEWALK OBSTRUCTIONS. ALL POWER POLES, STREET LIGHTS, FIRE HYDRANTS & MAIL BOXES SHALL BE SET BACK BEHIND SIDEWALK UNLESS APPROVED OTHERWISE BY CITY ENGINEER.
- 7. SIDEWALK RAMP SHALL HAVE A HEAVY BROOM FINISH ACROSS THE SLOPE OF THE RAMP.
- 8. SEE CONCRETE NOTES (C-1) AND CITY STANDARD SPECIFICATIONS.
- CONCRETE SHALL BE MINIMUM FIVE SACK MIX. (3200 P.S.I. MIN. IN 28 DAYS).

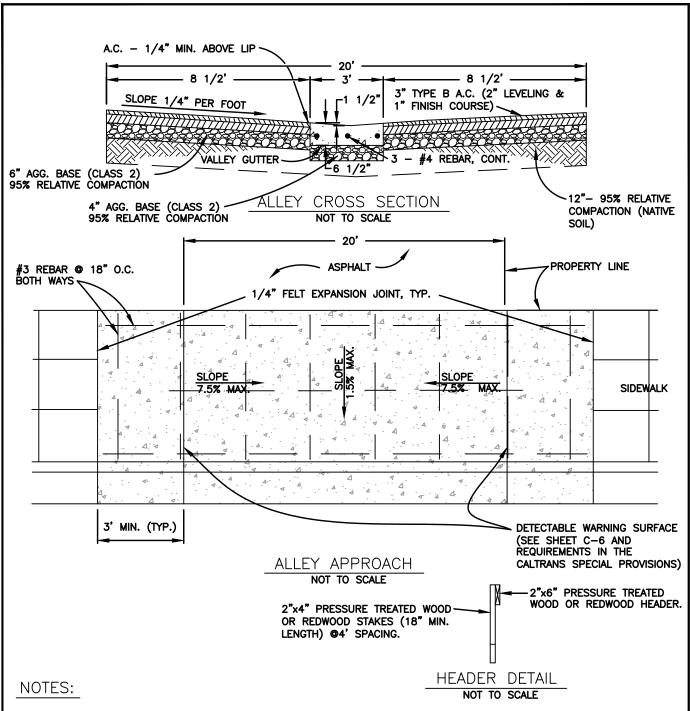




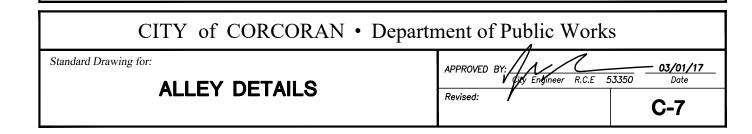
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- SIDEWALK RAMP SHALL HAVE A HEAVY BROOM FINISH ACROSS THE SLOPE OF THE RAMP.
- 8. SEE CONCRETE NOTES (C-1) AND CITY STANDARD SPECIFICATIONS.
- 9. CONCRETE SHALL BE MINIMUM FIVE SACK MIX. (3200 P.S.I. MIN. IN 28 DAYS).





- 1. REBAR SHALL BE CONTINUOUS THROUGH THE JOINT (NO SPLICES).
- 2. CONCRETE SHALL BE MIN. FIVE SACK MIX. (3200 P.S.I. MIN. IN 28 DAYS).
- 3. WOOD FORMS SHALL HAVE A NOMINAL THICKNESS OF 2", EXCEPT ON CURVE CONST. WHERE THE THICKNESS SHALL BE DETERMINED BY THE CITY INSPECTOR. FORMS SHALL REMAIN FOR A MIN. OF 24 HOURS.
- 4. HEADERS SHALL BE USED AT THE EDGE OF PAVEMENT EXCEPT WHEN BUILDINGS OR OTHER PERMANENT IMPROVEMENTS ABUT THE ALLEY, AND SHALL BE LEFT IN PLACE AFTER CONST. THEY SHALL BE FOUNDATION GRADE OR BETTER.
- 5. INSTALL EXPANSION JOINTS EVERY 48' IN VALLEY GUTTER.



# DRIVE WAY STANDARDS AND CRITERIA

#### 1. DRIVEWAYS - GENERAL

ALL DRIVEWAY APPROACHES, HEREINAFTER CALLED DRIVEWAYS, IN CITY RIGHT-OF-WAY SHALL BE CONSTRUCTED IN CONFORMANCE WITH CITY SPECIFICATIONS AND STANDARD DRIVEWAY DRAWINGS OR AS MODIFIED FOR SPECIAL SITUATIONS DESCRIBED HEREIN.

- A. A RESIDENTIAL DRIVEWAY APRON SHALL BE CONSTRUCTED BETWEEN THE CURB AND THE PROPERTY LINE WITH PORTLAND CEMENT CONCRETE PER DRIVEWAY STANDARDS.
- B. A COMMERCIAL DRIVEWAY APRON TO A PARKING LOT OR "DRIVE—IN" BUSINESS SHALL BE CONSTRUCTED BETWEEN THE CURB AND THE PROPERTY LINE WITH AN APPROVED PORTLAND CEMENT CONCRETE STRUCTURAL SECTION.
  C. AN INDUSTRIAL DRIVEWAY APRON SHALL BE CONSTRUCTED BETWEEN THE CURB AND THE PROPERTY LINE WITH AN
- APPROVED PORTLAND CEMENT CONCRETE STRUCTURAL SECTION BASED ON THE AMOUNT OF TRUCK TRAFFIC (TI)
- AND THE ABILITY OF THE SOIL (R-VALUE) TO WITHSTAND TRUCK WHEEL LOADS.

  D. IN ALL CASES ABOVE, IT SHALL BE THE RESPONSIBILITY OF THE ABUTTING PROPERTY OWNER TO MAINTAIN THE DRIVEWAY APRON IN A SAFE AND SUITABLE CONDITION FOR THE TRAFFIC TO BE CARRIED, WHETHER PEDESTRIAN OR VEHICULAR.

#### 2. COMMERCIAL - INDUSTRIAL HIGH VOLUME DRIVEWAYS

COMMERCIAL AND INDUSTRIAL DRIVEWAYS THAT SERVE A SUBSTANTIAL NUMBER OF VEHICLES OR TRUCKS SHALL HAVE DIMENSIONS, SIGHT DISTANCE, GEOMETRICS, SPACING, ETC., DETERMINED BY THE CITY ENGINEER.

#### 3. ONE-WAY DRIVEWAYS

ONE WAY ENTRANCE OR EXIT DRIVEWAYS SHALL CONFORM TO THE CITY STANDARD FOR COMMERCIAL DRIVEWAYS OR AS MODIFIED BY THE CITY ENGINEER FOR SPECIAL SITUATIONS.

#### 4. AMOUNT OF FRONTAGE ALLOWED FOR DRIVEWAYS

NOT MORE THAN 40 PERCENT OF RESIDENTIAL OR 40 PERCENT OF COMMERCIAL FRONTAGE OF ANY PARCEL MAY BE DEVOTED TO DRIVEWAYS.

#### 5. DRIVEWAY WIDTH "W"

THE WIDTH OF DRIVEWAYS SHALL BE MEASURED BETWEEN THE BOTTOM POINTS OF THE DRIVEWAY.

#### 6. MINIMUM WIDTH "W"

- A. THE MINIMUM WIDTH OF DRIVEWAYS FOR ONE AND TWO FAMILY RESIDENCES SHALL BE 12 FEET.
  B. THE MINIMUM WIDTH OF ALL OTHER DRIVEWAYS SHALL PROVIDE FOR THE SAFE, EFFICIENT AND ECONOMICAL MOVEMENT OF TRAFFIC AND SHOULD BE APPROXIMATELY 24 FEET.

# 7. MAXIMUM WIDTH "W"

- A. THE MAXIMUM WIDTH FOR A RESIDENTIAL DRIVEWAY SHALL BE 20 FEET, UNLESS APPROVED OTHERWISE BY THE CITY ENGINEER.
- B. THE MAXIMUM WIDTH OF ALL COMMERCIAL DRIVEWAYS SHALL BE 35 FEET EXCEPT THIS MAY BE INCREASED BY THE CITY ENGINEER.
- C. IN THE CASE OF A DRIVEWAY LOCATED ADJACENT TO AN ALLEY, IF APPROVED BY THE CITY ENGINEER, THE DRIVEWAY APRON MAY BE COMBINED WITH THE ALLEY BUT THE TOTAL COMBINED WIDTH SHALL NOT EXCEED 40
- D. THE DRIVEWAY WIDTH MAY BE MODIFIED BY THE CITY ENGINEER TO FACILITATE TURNING MOVEMENT WHERE CURB LANES ARE USED.

CITY of CORCORAN • Department of Public Works			
Standard Drawing for:  DRIVEWAY STANDARDS	APPROVED BY: Figure R.C.E 5		
AND CRITERIA	Revised:	C-8	

# DRIVE WAY STANDARDS AND CRITERIA (CONT.)

#### 8. <u>DISTANCE BETWEEN DRIVEWAYS</u>

- A. NO DRIVEWAY SHALL BE LOCATED CLOSER THAN FIVE FEET (AT TOP OF APRON) FROM A SIDE PROPERTY LINE.
- B. THE MINIMUM LENGTH OF FULL HEIGHT CURB BETWEEN DRIVEWAYS ON ADJACENT LOTS SHALL BE TEN FEET
- EXCEPT AS ALLOWED BY SPECIFIC ZONING ORDINANCE.

  C. NO DRIVEWAY SHALL BE LOCATED CLOSER THAN SIX FEET FROM AN EXISTING OR FUTURE ALLEY ENTRANCE EXCEPT AS PROVIDED ELSEWHERE IN THESE STANDARDS.

  D. WHERE TWO OR MORE DRIVEWAYS ARE CONSTRUCTED ON THE SAME LOT, THE MINIMUM LENGTH OF FULL HEIGHT CURB BETWEEN DRIVEWAYS SHALL BE 26 FEET. WHERE PRACTICAL TO PROVIDE PARKING, THE TOTAL LENGTH OF THE LITTUIT CURP DETWEEN DRIVEWAYS SHALL BE 26 FEET. WHERE PRACTICAL TO PROVIDE PARKING, THE TOTAL LENGTH OF FULL HEIGHT CURB BETWEEN DRIVEWAYS SHALL BE IN MULTIPLES OF 24 FEET.

#### 9. DRIVEWAY GRADE (SLOPE)

THE MINIMUM GRADE FOR DRIVEWAYS SHALL BE 2 PERCENT.

#### 10. DRIVEWAY DISTANCE FROM UTILITY OR SAFETY DEVICES

NO DRIVEWAY SHALL BE LOCATED CLOSER THAN FIVE FEET FROM A FIRE HYDRANT, TRAFFIC SIGNAL, STREET LIGHT STANDARDS, UTILITY POLE OR GUY WIRE.

#### 11. UTILITY RELOCATION

RELOCATION OF UTILITY COMPANY'S FACILITIES OR OTHER PUBLIC IMPROVEMENTS IN ORDER TO ACCOMPDATE A DRIVEWAY SHALL BE ACCOMPLISHED WITHOUT COST TO THE CITY.

#### 12. SIGNAL AND ELECTRICAL CONDUIT

WHERE TRAFFIC SIGNAL OR HIGHWAY LIGHTING IS PLANNED OR ANTICIPATED, A MINIMUM OF ONE 2-INCH PVC-P & C TC-6 CONDUIT SHALL BE PLACED UNDER ANY NEW DRIVEWAY APRON AND EXTEND A MINIMUM OF ONE FOOT BEYOND THE ENDS OF THE DRIVEWAY. THE CONDUIT SHALL BE PLACED BEHIND AND 24" BELOW THE TOP OF THE CURB.

#### 13. REMOVAL OF EXISTING DRIVEWAYS

WHEN DRIVEWAY CONSTRUCTION IS TO TAKE PLACE ON A PARCEL, ANY ABANDONED DRIVEWAYS SHALL BE REMOVED AND REPLACED WITH STANDARD CURB, GUTTER AND SIDEWALKS CONCURRENTLY WITH THE NEW CONSTRUCTION AND WITHOUT COST TO THE CITY.

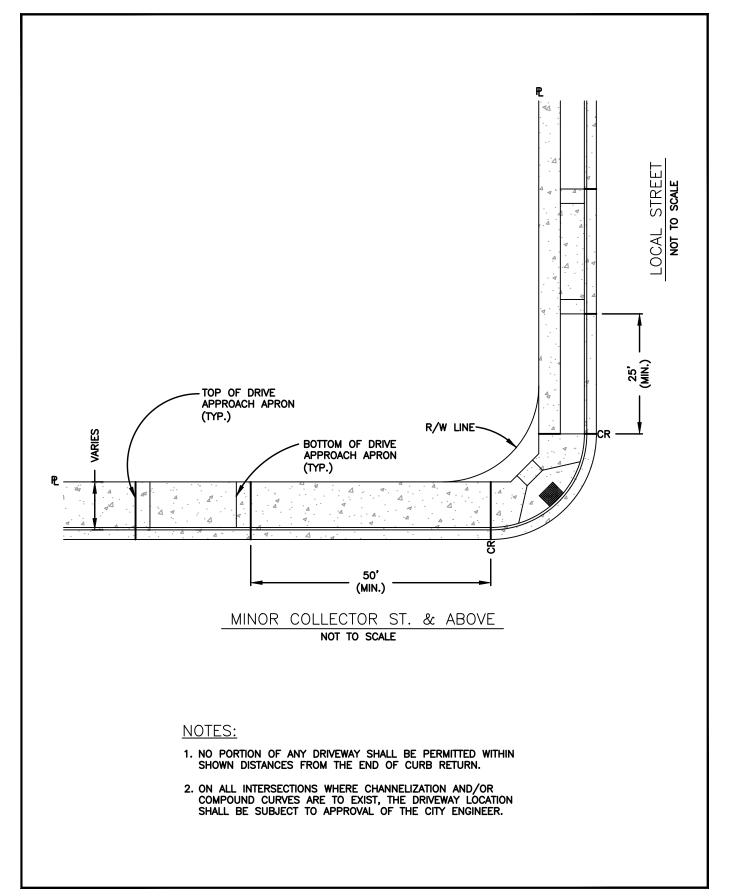
#### 14. MODIFICATION

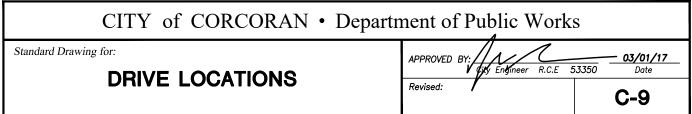
THE ABOVE STANDARDS MAY BE MODIFIED BY THE CITY ENGINEER FOR HARDSHIP CONDITIONS OR WHERE NECESSARY TO PROVIDE FOR THE SAFE AND EFFECIENT MOVEMENT OF TRAFFIC OR TO ACHIEVE APPROPRIATE DRAINAGE.

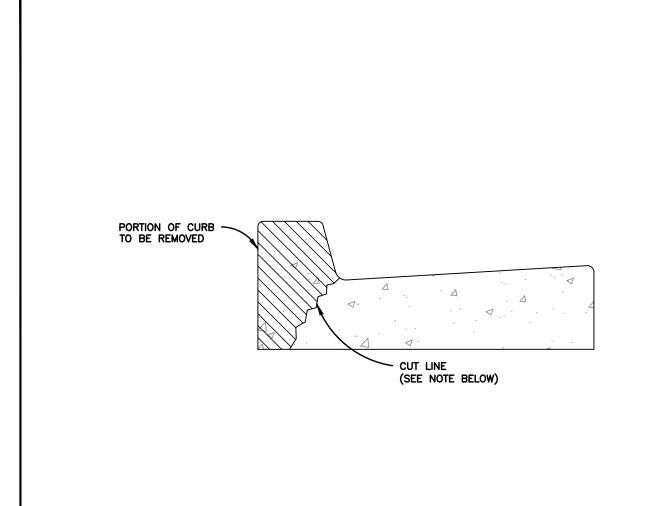
#### 15. SPECIFICATIONS

ALL WORK TO BE DONE AND ALL MATERIALS SUPPLIED SHALL CONFORM TO "STANDARDS SPECIFICATIONS" LATEST EDITION AND CITY OF CORCORAN STANDARD CONSTRUCTION PLANS.

CITY of CORCORAN • Department of Public Works			
Standard Drawing for:  DRIVEWAY STANDARDS	APPROVED BY: Jik Engineer R.C.E		
AND CRITERIA	Revised:	C-8A	

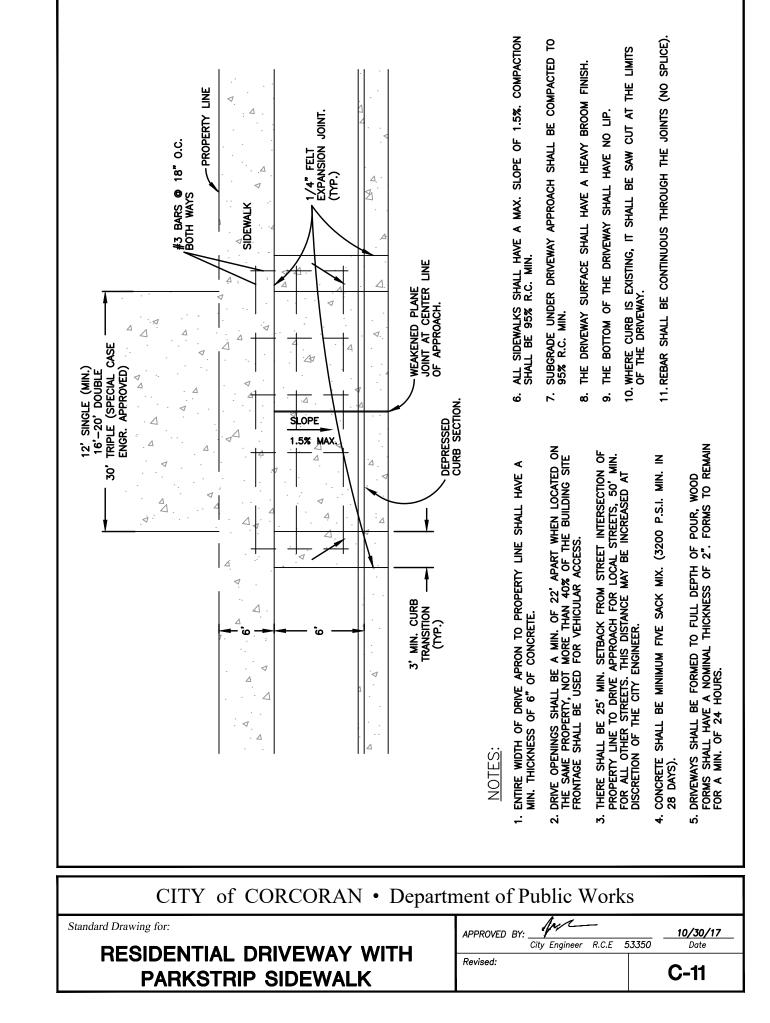


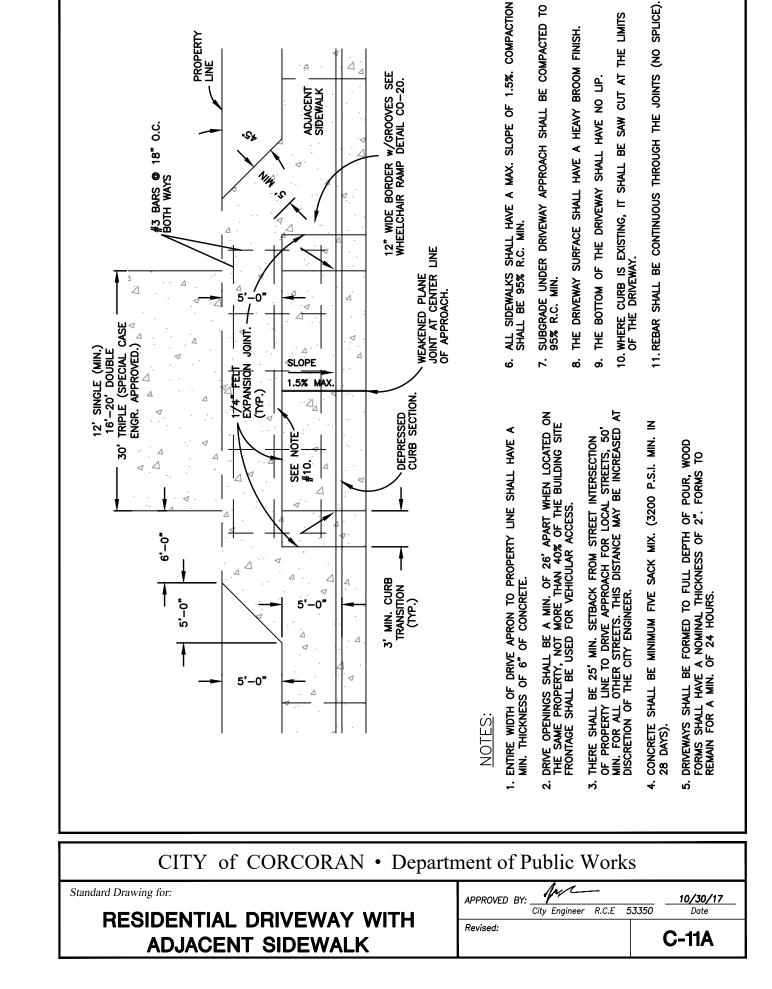




WHEN REMOVING CURB FOR NEW DRIVEWAY APPROACHES, CUT EXISTING CURB AS SHOWN ABOVE AT TOP OF APPROACH FOR NEW DRIVEWAY.

CITY of CORCORAN • Department of Public Works				
Standard Drawing for:	APPROVED BY:			
CURB REMOVAL AT NEW DRIVE	Revised: C-10			

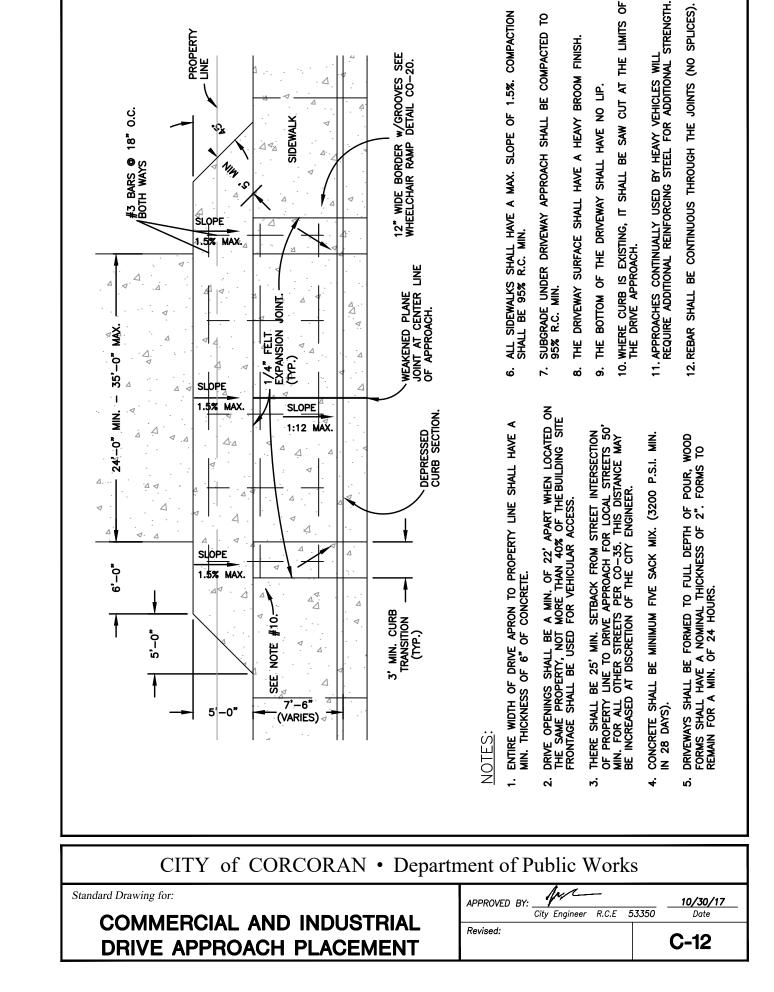




PROPERTY LINE

٠ς,

ADJACENT SIDEWALK



SIDEWALK

1/4

# GENERAL CRITERIA

STORM DRAIN IMPROVEMENTS SUBMITTED FOR REVIEW AND APPROVAL SHALL BE IN CONFORMANCE WITH THE FOLLOWING STANDARDS:

- 1. ALL SUBMITTALS SHALL BE IN DUPLICATE.
- 2. TOPOGRAPHIC MAPS SHALL HAVE ELEVATIONS ADEQUATE TO DEFINE BOUNDARIES AND SLOPE OF DRAINAGE BASIN.
  3. EACH DRAINAGE BASIN TO BE IDENTIFIED AND CORRELATED TO CALCULATIONS FOR THAT BASIN.
  4. ALL DATA AND CALCULATIONS SHALL BE COMPLETE AND SHALL HAVE REASONABLE CLARITY.

- 5. ENGINEERING CALCULATIONS SHALL BE SUBMITTED VERIFYING THAT APPROPRIATE MEASURES HAVE BEEN ADDRESSED, INSURING THAT EXIT VELOCITIES ARE NON-ERODING.
- 6. THE ATTACHED STORM DRAIN DESIGN CRITERIA AND CHARTS SHALL BE USED WITH THE RATIONAL FORMULA FOR CALCULATING HYDROLOGIC AND PIPE AND/OR CHANNEL DESIGN CHARACTERISTICS, I.E., SIZE, TYPE, SLOPE, VELOCITIES AND ENTRANCE AND OUTLET STRUCTURES.

  7. ALL EXISTING STREETS TO BE ASSUMED CONSTRUCTED TO ULTIMATE STANDARDS.

  8. MINIMUM SIZE OF PROPOSED STORM DRAINAGE CULVERTS SHALL BE 12 INCHES IN DIAMETER.

# HYDROLOGIC CRITERIA FOR PIPES AND CULVERTS

- 1. LEVEL OF DEVELOPMENT AS SHOWN IN CITY OF CORCORAN GENERAL PLAN.
- 2. RECURRENCE INTERVAL (STORM FREQUENCY)
  - A. FREQUENCY OF 2 YEARS FOR AREAS LESS THAT 160 ACRES. B. 5 YEAR FREQUENCY FOR AREAS LARGER THAN 160 ACRES.
- 3. DESIGN CONSIDERATION

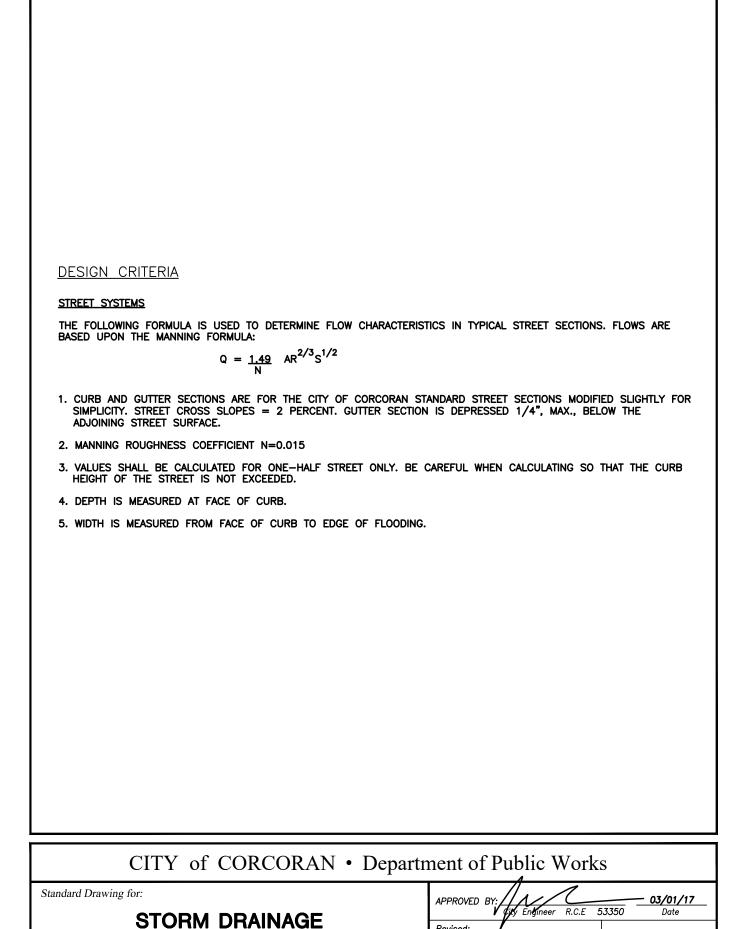
ON RESIDENTIAL STREETS, FACILITIES SHOULD BE DESIGNED SO THAT A 2-YEAR INTERVAL STORM DOES NOT POND LONGER THAN 1 HOUR. PROVISIONS SHALL ALSO BE MADE SO THAT WATER DEPTH DOES NOT EXCEED THE TOP OF CURB BY MORE THAN 1 (ONE) FOOT FOR A 100-YEAR RETURN INTERVAL STORM.

FOR COMMERCIAL ZONES, FACILITIES SHOULD BE DESIGNED SO THAT A 2-YEAR RETURN INTERVAL STORM DOES NOT POND LONGER THAN 1 HOUR AND THAT A 100-YEAR STORM DOES NOT CAUSE PROPERTY DAMAGE TO **BUILDINGS.** 

4. MINIMUM PIPE VELOCITY

V=2.5 FPS.

CITY of CORCORAN • Department of Public Works			
Standard Drawing for:  STORM DRAINAGE	APPROVED BY:		
CRITERIA	Revised:	SD-1	

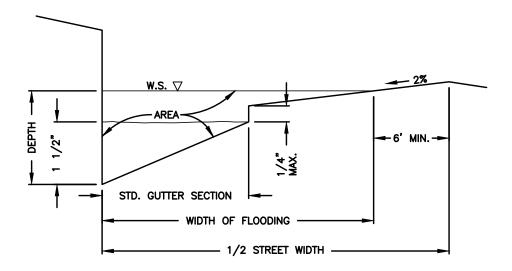


Revised:

**CRITERIA** 

SD-1A

# 6. TYPICAL SECTION:



# **COLLECTION SYSTEMS:**

**USE RATIONAL EQUATION** 

Q = CIA

TO DETERMINE RUN-OFF FOR PIPELINES, DRAINAGE INLETS AND PUMP STATIONS.

- Q = FLOW IN (C.F.S.)
- A = AREA OF AREA UNDER CONSIDERATION IN ACRES
  I = INTENSITY FACTOR (IN/HR) (SEE CURVE)
  C = RUN-OFF FACTOR (SEE TABLE)

TIME OF CONCENTRATION SHALL BE DETERMINED BY THE SUM OF THE CURB LENGTH AT 1 FPS PLUS THE STORM DRAIN LENGTH ASSUMING 2.5 FPS AND ADDING 30 MINUTES TO THAT TOTAL.

CITY of CORCORAN • Department of Public Works			
Standard Drawing for:  STORM DRAINAGE	APPROVED BY:		
CRITERIA	Revised:	SD-1B	

# **DESIGN CRITERIA**

## **RUN OFF COEFFICIENTS**

LAND USE/ZONING	<u>C</u>
COMMERCIAL/CC	.85
COMMERCIAL/CN	.80
COMMERCIAL/OTHER	(1)
INDUSTRIAL/ML, MH, MP	(1)
PROFESSIONAL/P.O.	.75
MULTI FAMILY/RM-1.5, RM-2	.65
MULTI FAMILY/RM-2.5, RM-3	.55
SINGLE FAMILY/R-1-6, R-1-10	.35
SINGLE FAMILY/RA	.25
RESOURCE/OPEN SPACE	.15

(1) BASED UPON PROPOSED DEVELOPMENT

 ${\color{red} {\rm NOTE:}}$  OTHER RUNOFF COEFFICIENTS MAY BE APPROVED/REQUIRED BY CITY ENGINEER WHEN PROBABLE RUNOFFS ARE OBVIOUSLY INCONSISTENT WITH THE ABOVE CHART.

#### REQUIREMENTS FOR STORM DRAINAGE BASINS

DESIGN FOR 10 YR/10 DAY EVENT OF 4" OF RAIN. IF THE BASIN HAS AN OUTLET TO BE PUMPED AT OFF-PEAK, AND CAN BE DRAINED WITHIN 48 HOURS, BASIN SHALL BE DESIGNED FOR 2.4 INCHES OF RAIN.

USE: 
$$S = P CA$$

S = STORAGE (A-F)

P = PRECIPITATION - 4" OR 2.4

C = RUN-OFF COEFFICIENT

A = AREA (AC)

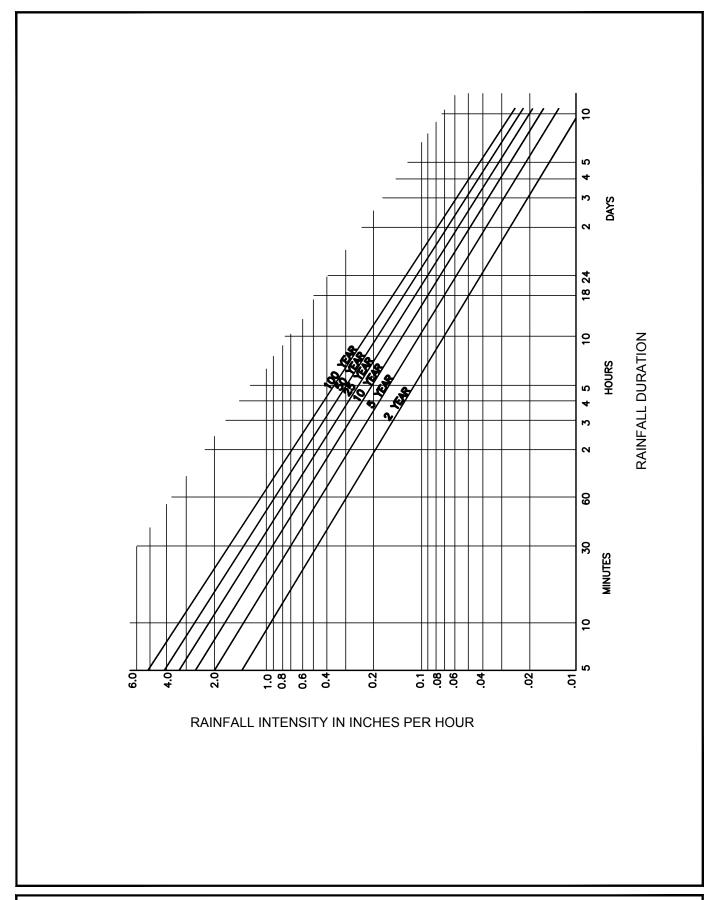
CITY	of	CORCORAN	•	Department	of Pub	lic W	orks

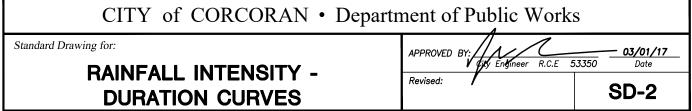
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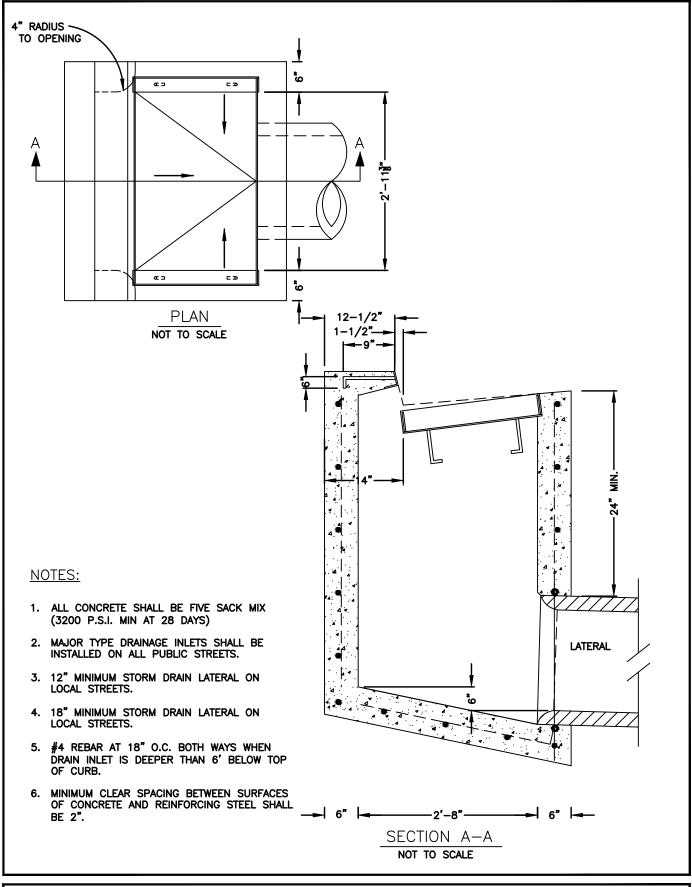
STORM DRAINAGE CRITERIA

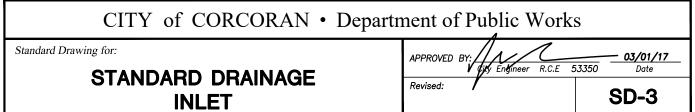
Revised:

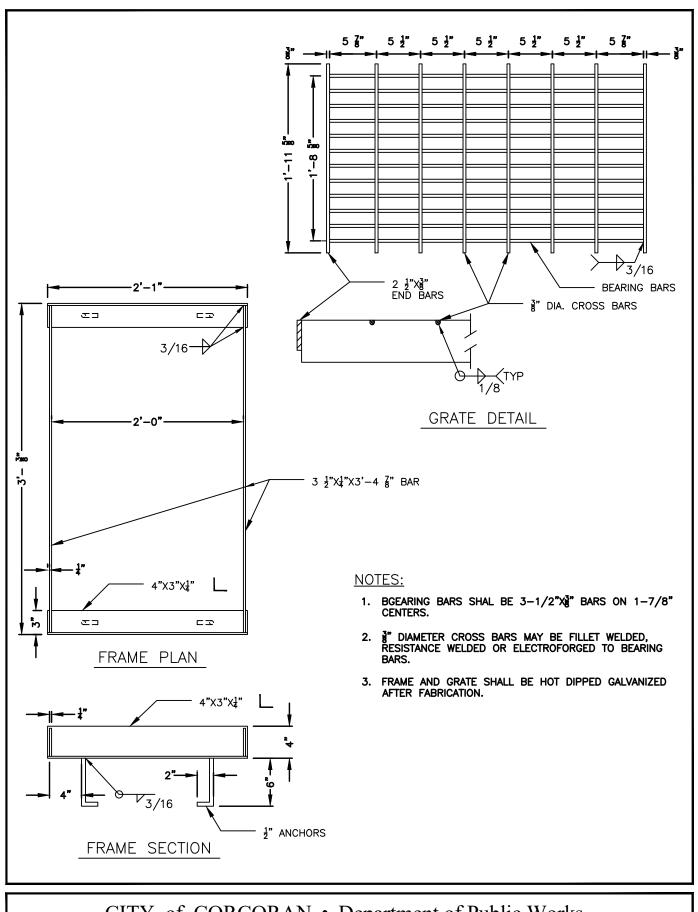
SD-1C

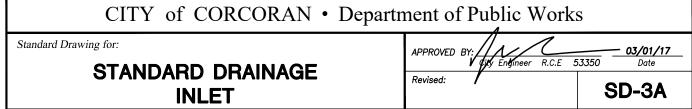


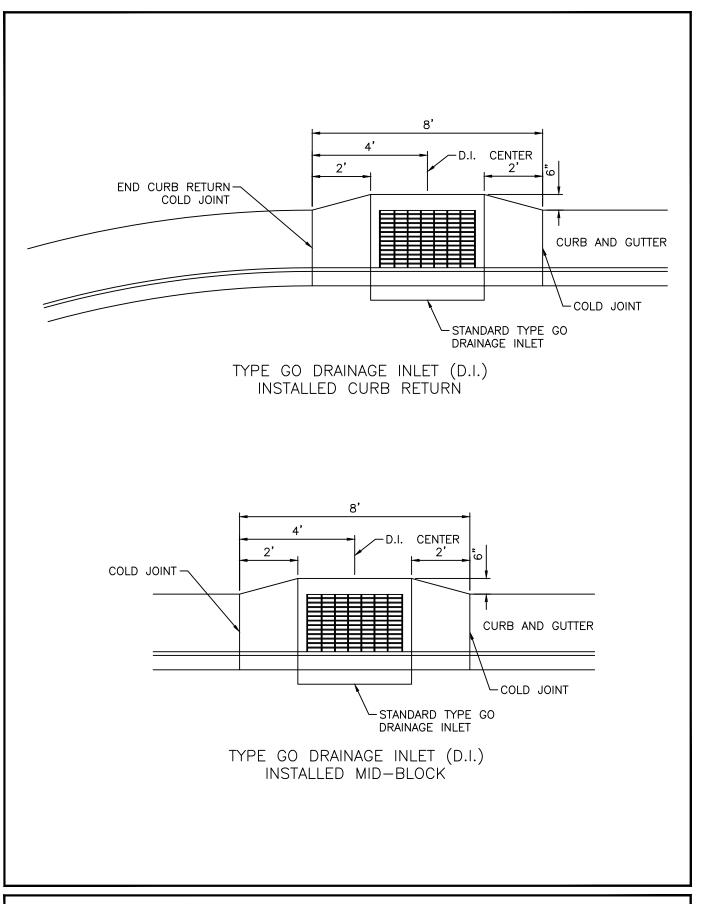


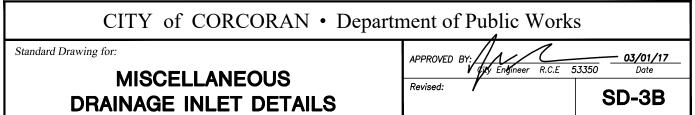


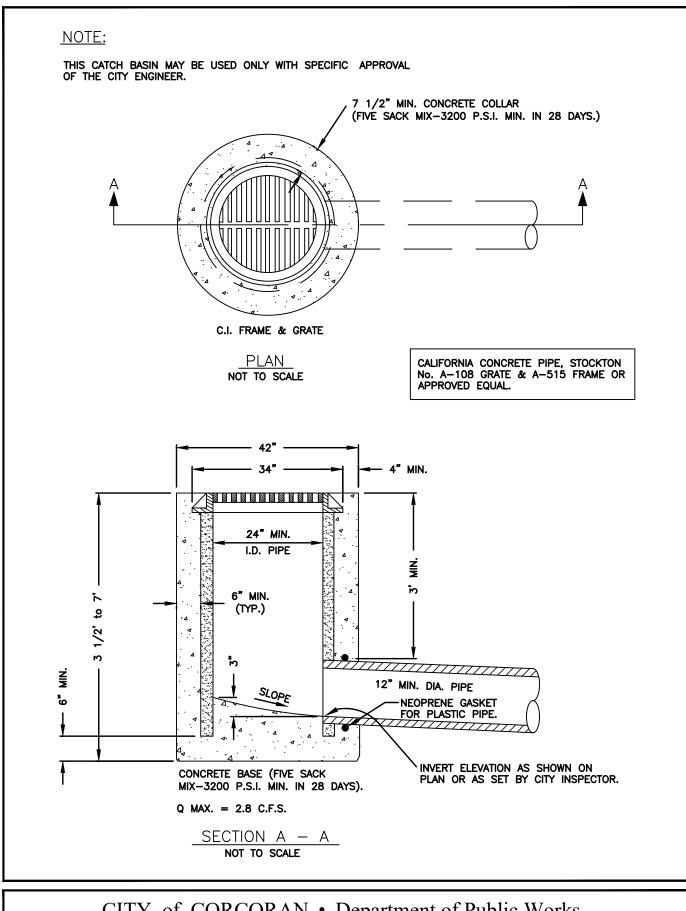


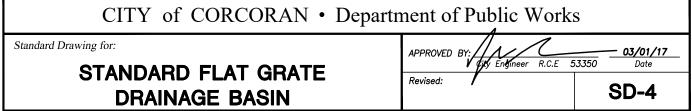


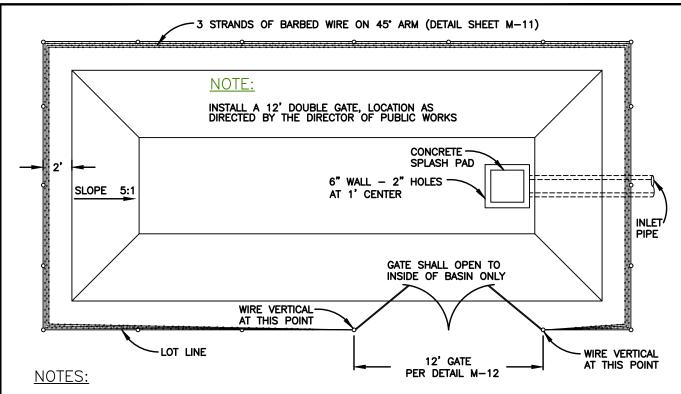




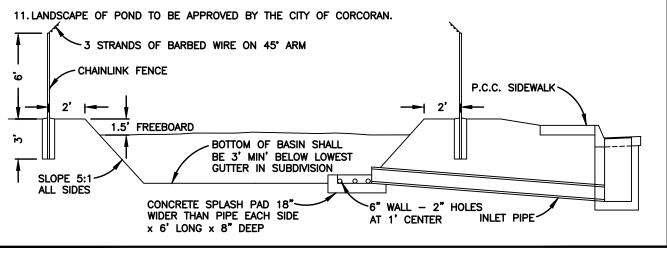


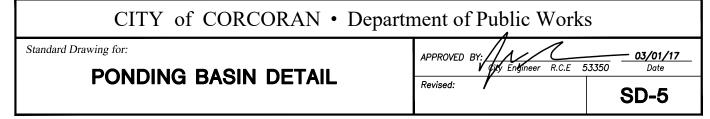






- 1. FENCE TO BE PLACED ON FOOT INSIDE OF LOT LINE.
- 2. MAXIMUM DEPTH OF WATER IN PONDING BASIN 3'-0".
- 3. FENCE POST TO BE PLACED IN FIVE SACK MIX (3200 P.S.I. MIN IN 28 DAYS).
- 4. ACCESS GATE 12'-0" MINIMUM (DOUBLE GATE).
- 5. ENTIRE AREA OF PONDING LOT TO BE TREATED WITH SOIL STERILANT TO EDGE OF INSIDE OF FENCE OR TO BACK OF CONCRETE CURB OR SIDEWALK.
- 6. THE SOIL STERILANT TO BE USED AND RATE OF APPLICATION MUST BE APPROVED BY PUBLIC WORKS DIRECTOR BEFORE BEING APPLIED.
- 7. WHERE PONDING BASIN IS ON CORNER LOT, FENCE SHALL FOLLOW CURVE OF LOT LINE.
- 8. AT THE CITY OF CORCORAN'S DISCRETION THE DEVELOPER MAY BE REQUIRED TO SUBMIT FOR APPROVAL DETAILS AND SPEC'S FOR EITHER GRAVITY DISCHARGE OR PUMPING OF STORM WATER FROM POND TO STORM SYSTEM. STANDING STORM WATER WILL NOT BE ALLOWED.
- 9. FENCE POST LOCATIONS AND POST SIZE PER DETAILS M-11 AND M-12.
- 10. LOCATION OF GATE AND SWING OF GATE TO BE DIRECTED BY THE CITY OF CORCORAN.



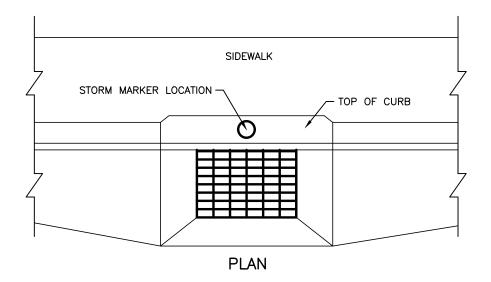




**FRONT** STORM MARKER



BACK ADHESIVE PATTERN



- 1. ALL STORM DRAIN INLETS SHALL BE MARKED "NO DUMPING DRAINS TO WATERWAY".
- 2. STORM MARKERS AND ADHESIVE MUST BE PURCHASED FROM THE CITY OF CORCORAN.

  3. ALTERNATE MARKERS MUST BE APPROVED BY THE DIRECTOR OF PUBLIC WORKS.

# **INSTALLATION:**

- 1. READ THE ADHESIVE'S CAUTIONARY STATEMENT AND FIRST AID PROCEDURES BEFORE BEGINNING INSTALLATION, AS IT IS EXTREMELY FLAMMABLE
- 2. MARKERS SHALL BE INSTALLED ON THE CURB AND CENTERED ON THE GRATE AS SHOWN ABOVE.
- 3. APPLICATION SURFACE MUST BE FLAT.
- 4. CLEAN APPLICATION SURFACE WITH WIRE BRUSH. SURFACE MUST BE CLEAN, DRY, AND FREE OF ANY LOOSE DEBRIS.
- 5. APPLY ADHESIVE TO THE BACK OF THE MARKER. START 1/8" IN FROM THE OUTSIDE EDGE APPLYING AN EVEN BEAD AROUND THE ENTIRE EDGE, AND THEN SPIRAL INWARD TOWARD THE CENTER AS SHOWN ABOVE 6. PLACE MARKER ON APPLICATION SURFACE. PUSH IT DOWN HARD WITH A TWISTING MOTION, FORCING ADHESIVE
- OUT FROM THE EDGE. IT IS IMPORTANT THAT ADHESIVE SEALS THE ENTIRE OUTER EDGE OF THE MARKER.

CITY of CORCORAN • Department of Public Works		
Standard Drawing for:	APPROVED BY:	03/01/17 53350 Date
STORM DRAIN INLET MARKER	Revised:	SD-6

#### SANITARY SEWER CRITERIA

1. ACCEPTABLE MATERIALS:

TRUNKS, MAINS, COLLECTORS (8" AND LARGER)

PVC (ASTM DESIGNATION D3034-SDR35)

SEWER SERVICE CONNECTIONS

(4" AND 6")

PVC (ASTM DESIGNATION D3034-SDR35)

\*ALL 4" SHALL BE FURNISHED IN 1/2 LENGTHS

- 2. ALL SEWER PIPE SHALL HAVE EITHER A COMPRESSION TYPE OR A SOLVENT WELDED JOINT.
- 3. A. SEWER CAPACITY DESIGN CRITERIA
  - 1. 125 GAL. PER CAPITA PER DAY (RESIDENTIAL)
  - 2. 5.0 DWELLINGS PER GROSS ACRE
  - 3. 3.5 PERSONS PER DWELLING
  - 4. DAILY CONTRIBUTION 2190 GAL. PER ACRE PER DAY (RESIDENTIAL)
  - 5. AVERAGE FLOW PIPE DESIGNED TO FLOW HALF FULL FOR PIPE SIZES LESS THAN 15" AND THREE-FOURTHS FULL FOR PIPE SIZES 15" AND LARGER TO ALLOW FOR PEAK FLOW.
  - 6. COMMERICAL & LIGHT INDUSTRY 3 X 2190 = 6570 GAL. PER ACRE PER DAY
  - 7. HEAVY INDUSTRY 6 X 2190 = 13,140 GAL. PER ACRE PER DAY
  - B. AVERAGE DESIGN FLOWS
  - 1. RESIDENTIAL

ACRES X  $\underline{1290}$  = ACRES X 1.52 GPM 1440

2. COMMERICAL AND LIGHT INDUSTRY

ACRES X 6570 = ACRES X 4.57

3. HEAVY INDUSTRY

ACRES X 13.140 = ACRES X 9.13 PGM 1440

CITY of CORCORAN • Department of Public Works

Standard Drawing for:

**SANITARY SEWER** CRITERIA

APPROVED BY: 03/01/17 ity Engineer R.C.E 53350

Revised:

**SS-1** 

Date

# SANITARY SEWER CRITERIA

- 4. SEWER LINES SHALL BE DESIGNATED WITH A MINIMUM MANNING COEFFICIENT OF N=0.013 FOR VCP AND N=0.012 FOR PVC.
- 5. THE MINIMUM SLOPES SHALL BE CALCULATED ON THE BASIS OF A MINIMUM VELOCITY OF TWO FEET PER SECOND.
- 6. THE MINIMUM SIZE SEWER MAIN SHALL BE 8-INCHES.
- 7. THE MINIMUM RADIUS OF CURVATURE AND ANGLE OF DEFLECTION THAT WILL BE ALLOWED IN SEWER LINE IS 1.5 TIMES THE MANUFACTURER'S RECOMMENDED MINIMUM.
- 8. MINIMUM DEPTH OF COVER:
  - A. 3.5' OVER MAIN LINE IN STREET FOR 8"-12" PIPES. 4.0' OVER MAIN LINE IN STREET FOR PIPES GREATER THAN 12".
  - B. 3.0' OVER SERVICE CONNECTIONS AT PROPERTY LINE.
- 9. MANHOLE SPACING:
  - A. SEWERS 8": 450' MAXIMUM
  - B. SEWERS 10" 12": 500 MAXIMUM
  - C. SEWERS 15" AND LARGER: 600 MAXIMUM
  - D. AT ALL ANGLE POINTS IN HORIZONTAL AND VERTICAL ALIGNMENT.
  - E. AT THE TERMINAL END OF ALL LINES.
- 10. DROP MANHOLES WILL NOT BE PERMITTED UNLESS APPROVED BY THE ENGINEER.
- 11. CLEAN-OUTS WILL ONLY BE ALLOWED ON THE TEMPORARY TERMINII OF A LINE.

Standard Drawing for:

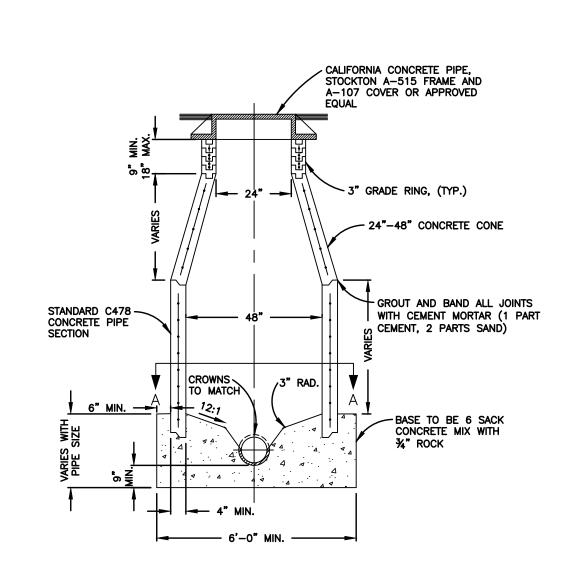
**SANITARY SEWER CRITERIA** 

APPROVED BY: Engineer R.C.E 53350

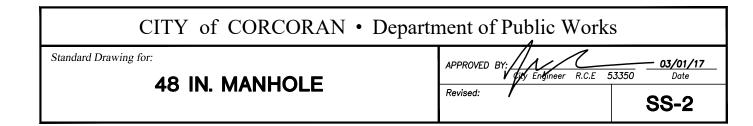
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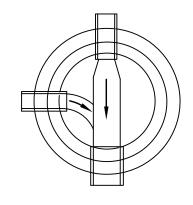
SS-1A

Date

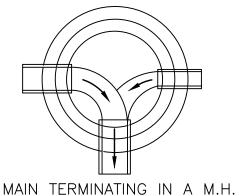


WHERE MANHOLES ARE NOT LOCATED IN STREETS OR TRAVELED WAY, PLACE TOP OF MANHOLE 12"-24" ABOVE EXISTING GROUND UNLESS OTHERWISE SHOWN ON THE PLANS.

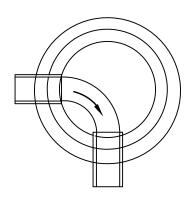




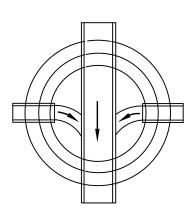
SIZE CHANGE IN THE MAIN NOT TO SCALE



NOT TO SCALE



ALIGNMENT CHANGE IN THE MAIN PIPE CONTINUOUS THROUGH M.H. NOT TO SCALE



NOT TO SCALE

### NOTES:

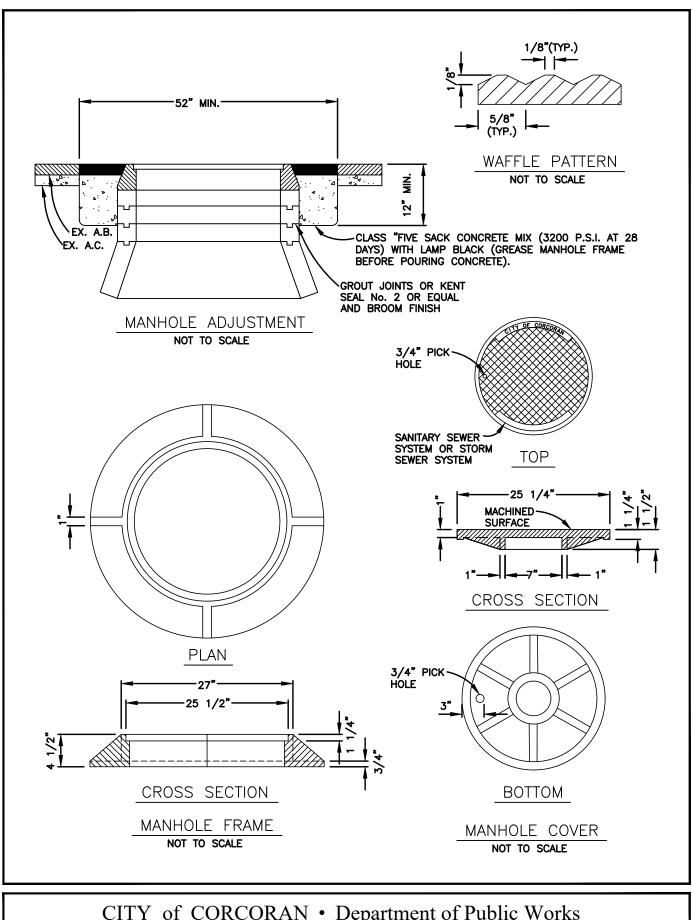
- 1. FLEXIBLE PIPE THROUGH A MANHOLE REQUIRES A WATER STOP.
- 2. TERMINATING PIPES TO EXTEND INTO M.H. INTERIOR A MAX. DISTANCE OF 4".
- 3. THE TOP HALF OF ALL PIPE WITHIN THE M.H. IS TO BE CUT AWAY. COVER THE CUT EDGES WITH MORTAR CONSTRUCTING THE BENCHING.
- 4. PREPARE A SMOOTH TROWLED CONC. CHANNEL HAVING UNIFORM GRADIENT BETWEEN PIPE INVERTS. END OF PIPE TO BE BEVELED AT 45°.
- 5. EXTEND THE CHANNEL WALLS UP TO A HEIGHT EVEN WITH TOP OF THE PIPE.
- 6. HAND TAMP 9" OF SELECT BACKFILL MATERIAL UNDER ALL PIPING COMING OUT OF THE MANHOLE UP TO THE FIRST JOINT.

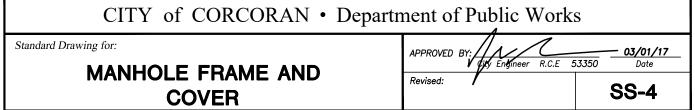
- 7. THE BREADTH OF THE CHANNEL AT EACH JUNCTION MUST ALWAYS BE AS GREAT AS THE DIAMETER OF THE CONNECTED PIPE.
- 8. INSIDE RADIUS OF CHANNEL TO BE GREATER THAN THE DIAMETER OF THE LARGEST CONNECTED PIPE UP TO 2 PIPE DIAMETERS.
- 9. SLOPE THE BENCHING UP TOWARD THE M.H. WALL AS INDICATED IN THE M.H. SECTION. TROWEL THE SURFACE SMOOTH.
- 10. INCOMING NON-STRAIGHT LINES SHALL HAVE AN INVERT THAT IS AT LEAST .10' HIGHER THAN THE OUT GOING LINE.

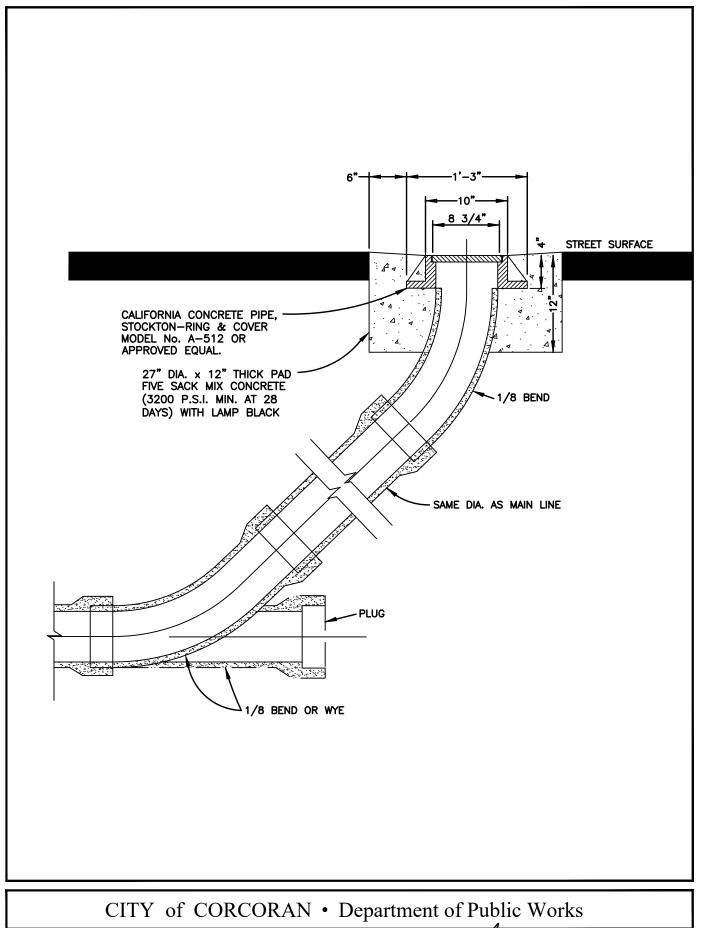
# CITY of CORCORAN • Department of Public Works Standard Drawing for:

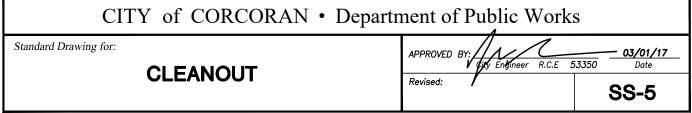
**INVERT PLANS OF** STANDARD MANHOLES

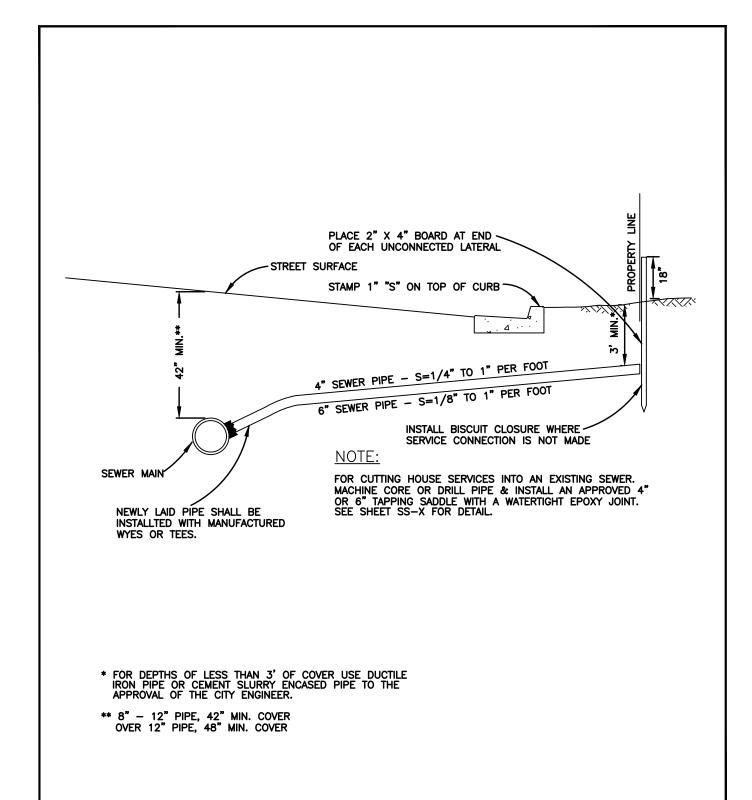
03/01/17 APPROVED BY: Engineer R.C.E 53350 Date Revised: **SS-3** 



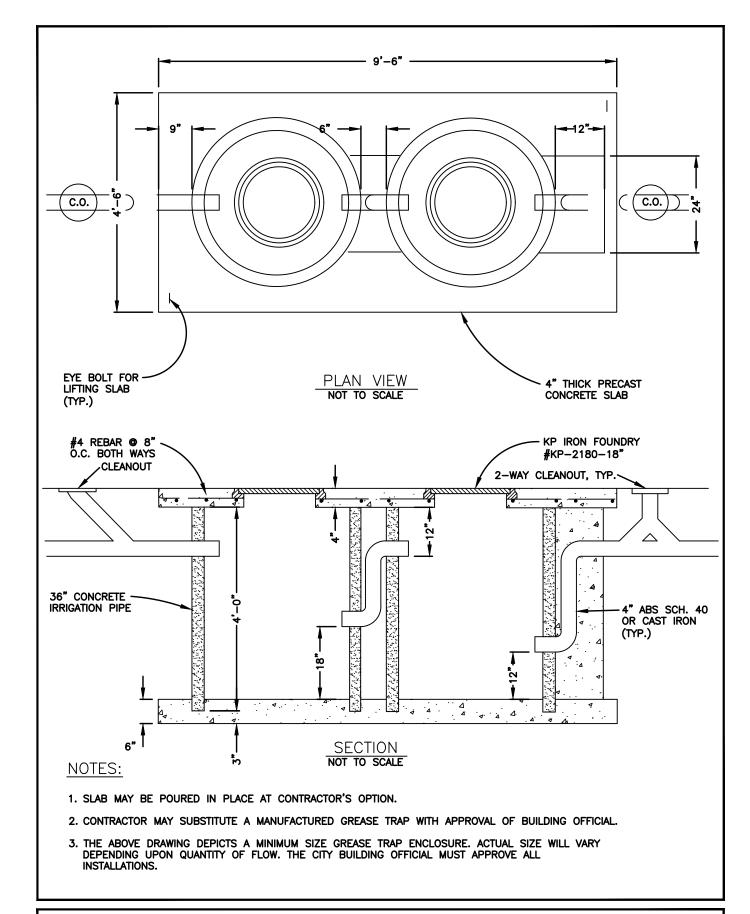


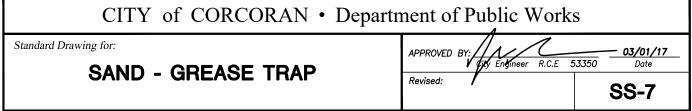


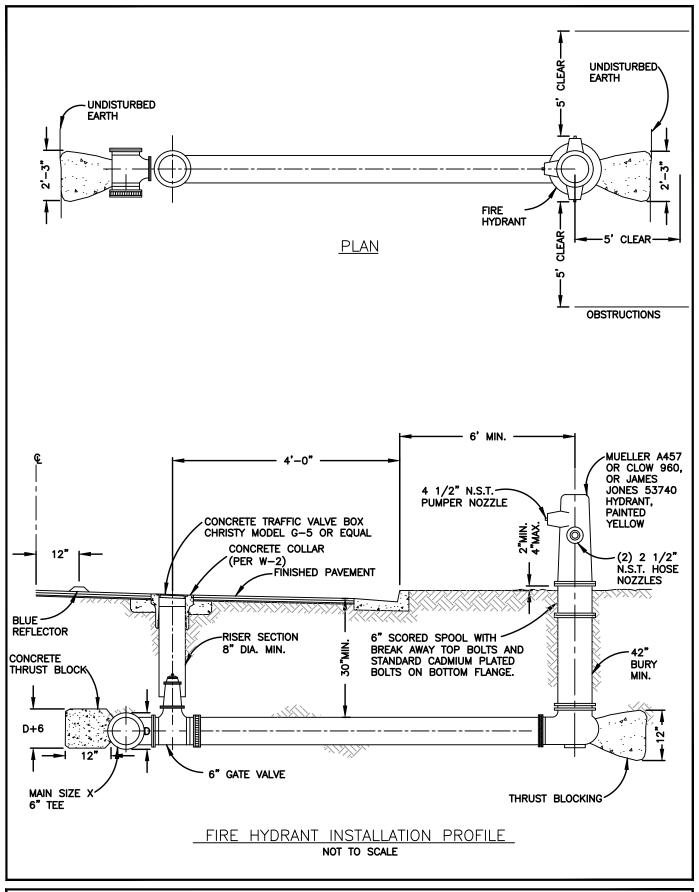


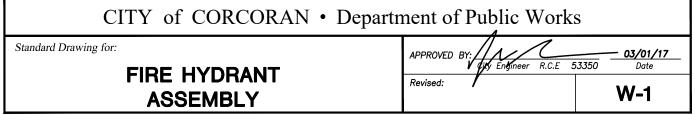


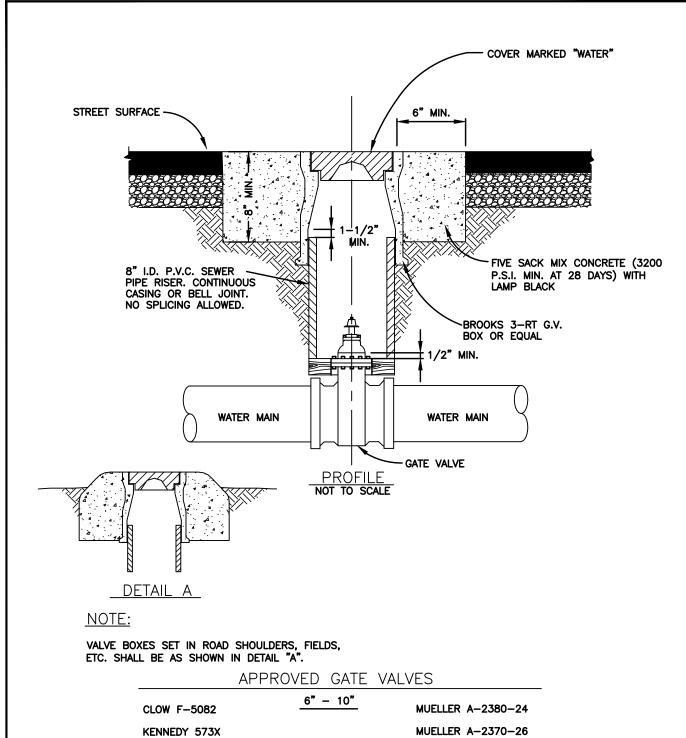
# CITY of CORCORAN • Department of Public Works Standard Drawing for: SEWER LATERAL APPROVED BY: Revised: APPROVED BY: Revised: SS-6









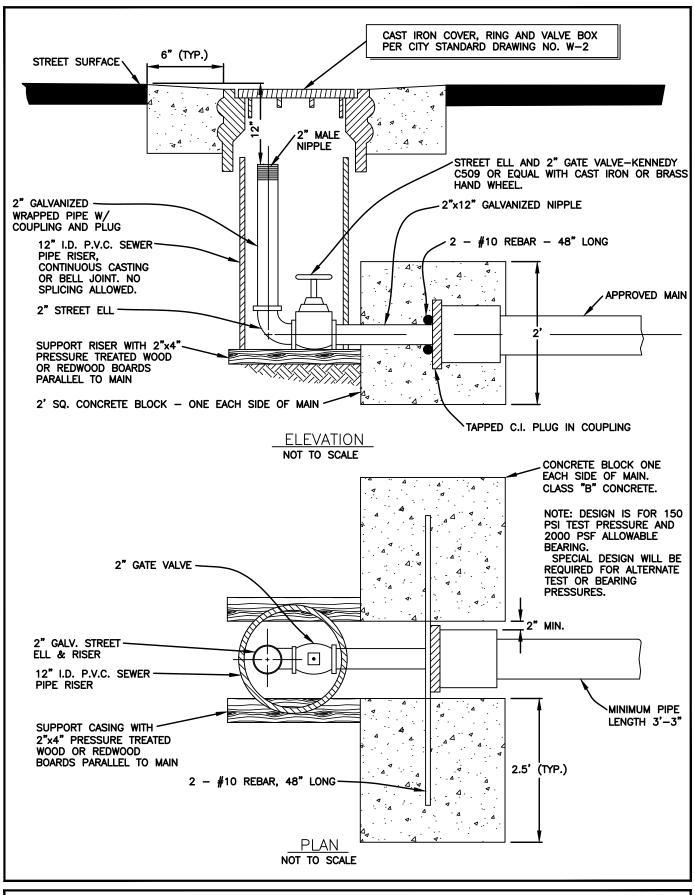


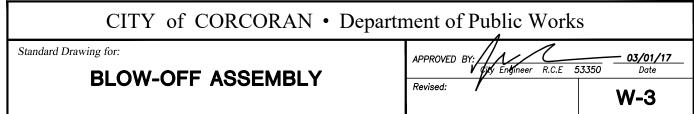
WATEROUS SERIES 500 M & H 67 RT, O-RING 12" AND OVER

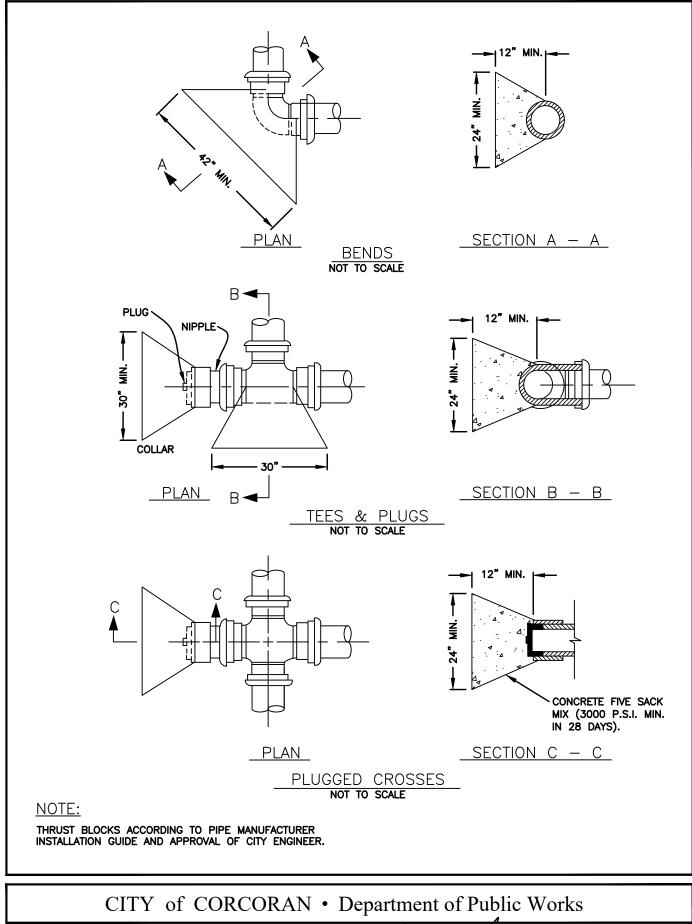
MUELLER A-2370-26 WATEROUS SERIES 500

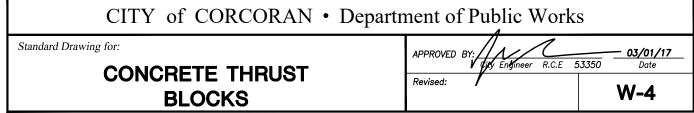
ALL VALVES SHALL BE A.W.W.A. APPROVED RESILIENT WEDGE

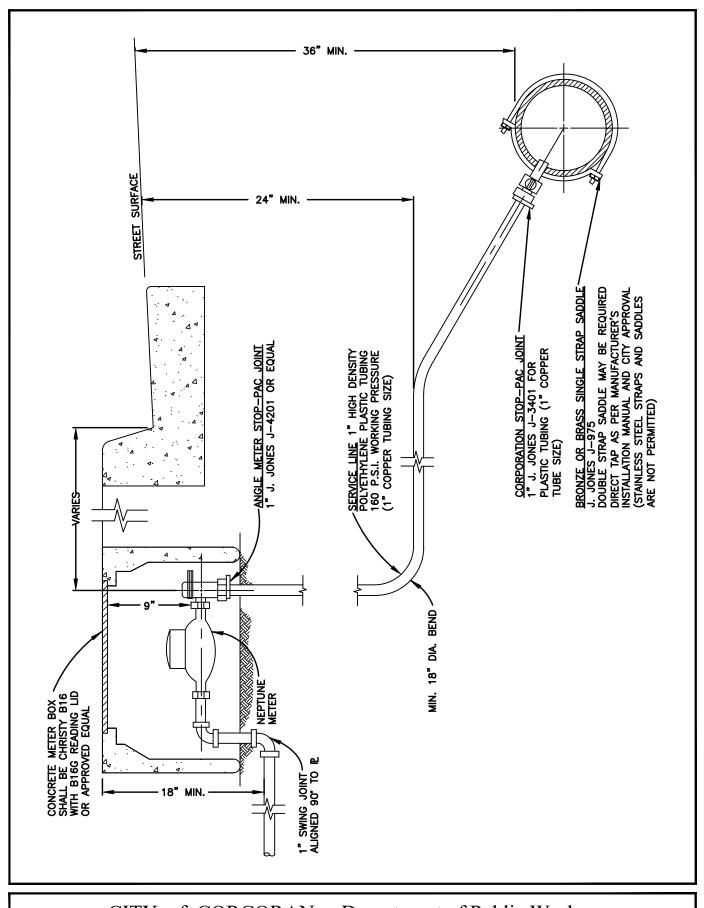
## CITY of CORCORAN • Department of Public Works Standard Drawing for: 03/01/17 APPROVED BY Engineer R.C.E 53350 **VALVE WELL & COVER** Revised: W-2

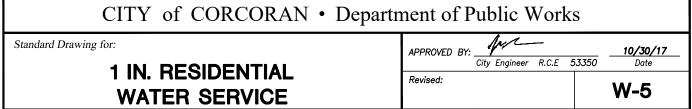


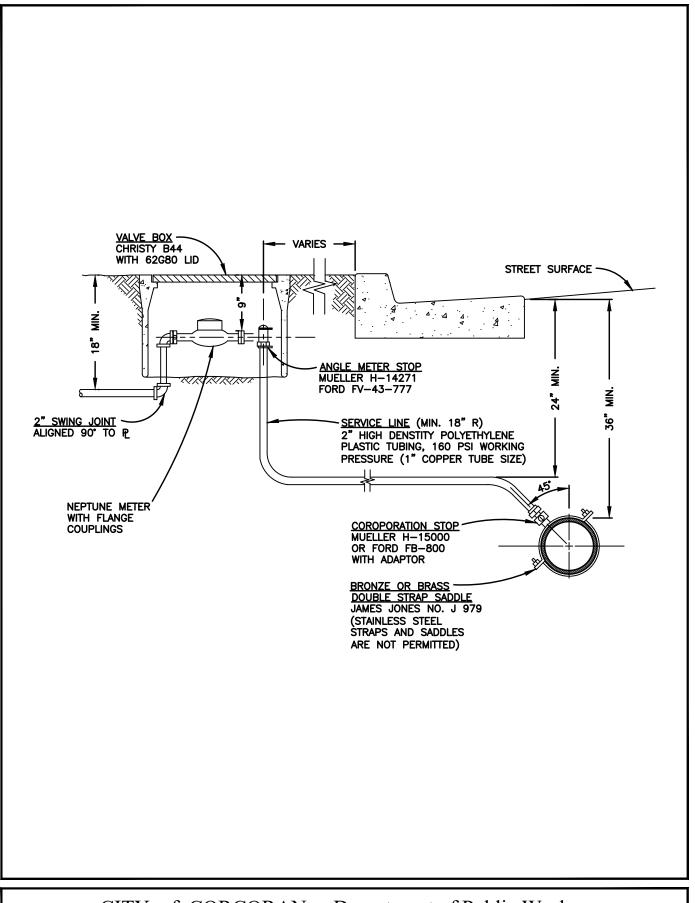




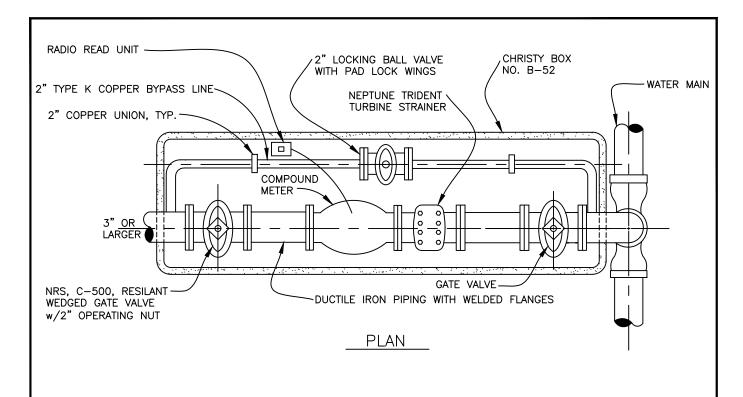


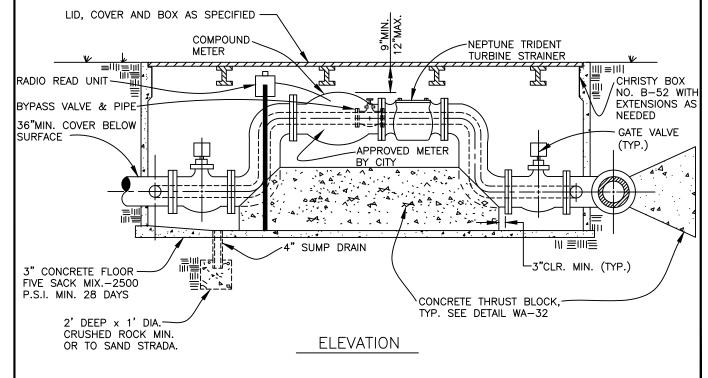






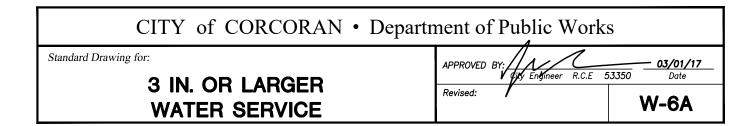
CITY of CORCORAN • Department of Public Works		
	APPROVED BY: City Engineer R.C.E 5	
1.5 IN. AND 2 IN. WATER SERVICE	Revised:	W-6

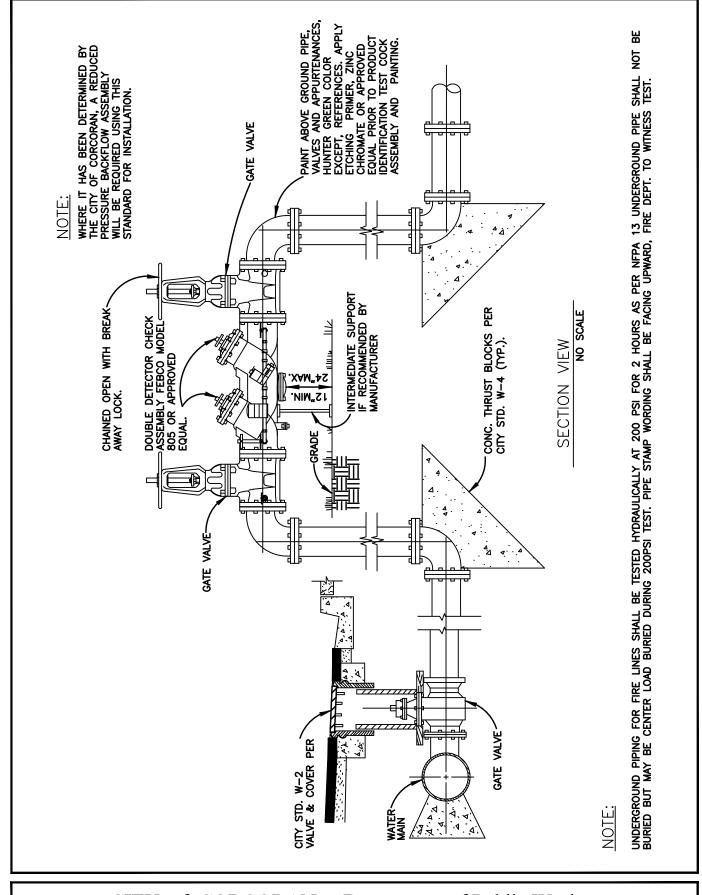


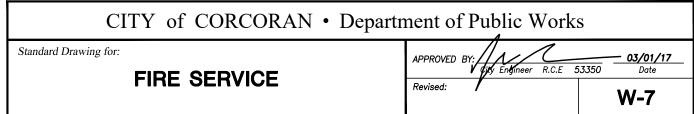


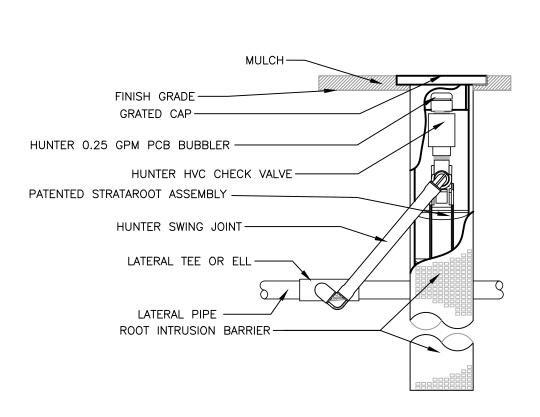
### NOTES:

- HOT TAP OF EXISTING WATER MAIN WILL REQUIRE A TAPPING VALVE & TAPPING SLEEVE.
- THE FIREFLY (DATAMATIC) RADIO READ UNIT MUST BE CONNECTED TO THE REGISTER PRIOR TO INSTALLATION.



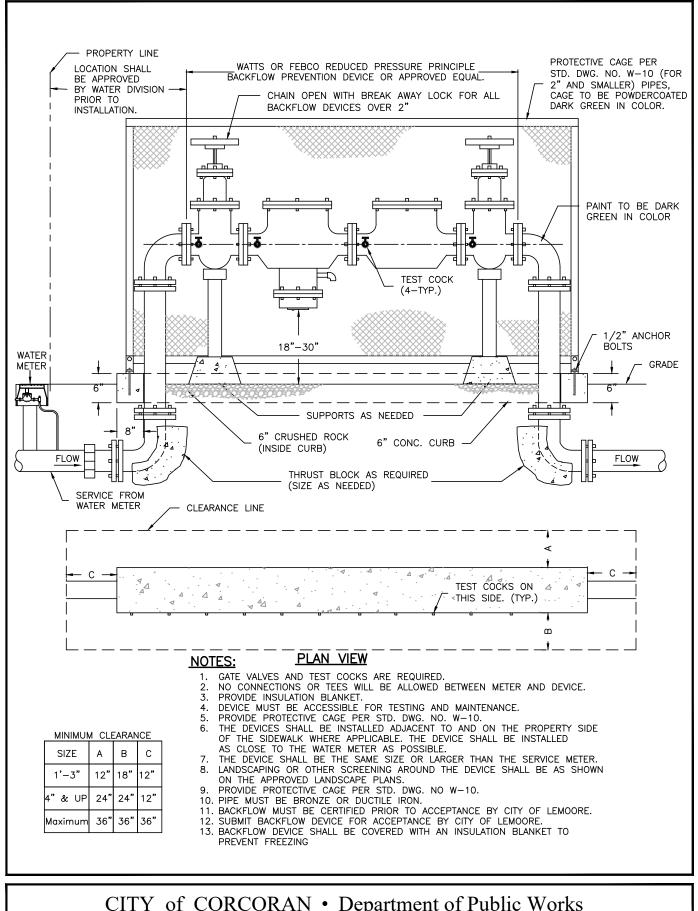


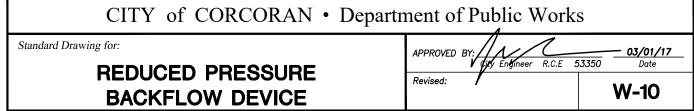


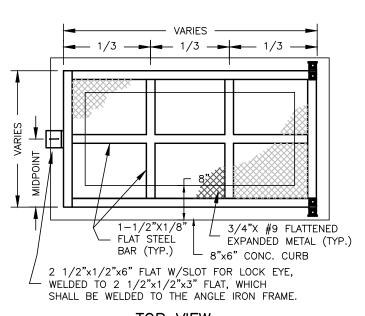


NOTE: INSTALL HUNTER FILTER FABRIC SLEEVE— #RZWS—SLEEVE

CITY of CORCORAN • Department of Public Works		
Standard Drawing for:	APPROVED BY:	
DEEP ROOT WATERING SYSTEM	Revised: W-9	







# NOTES:

1. EXPANDED METAL GRATING TO BE WELDED INSIDE STRUCTURAL EVERY 5" MIN. SUPPORTS 2. ALL DIAGONAL & CIRCULAR CUT EXPOSED EDGES SHALL BE BANDED WITH A BAR EQUAL TO THE OVER ALL GRATING THICKNESS AND WELDED AT ALL CONTACT POINTS. 3. HINGE SHALL BE 1/2" GALVANIZED BOLT IN TO THE NUT WELDED INSIDE ENCLOSURE. END OF BOLT SHALL BE TO PREVENT REMOVAL FROM ALTERED OUTSIDE ENCLOSURE. 4. WELD ALL 1/2" DIA. ROD INTERSECTIONS WITH 3/8" FILLET WELDS. 5. CURB SHALL BE 6" THICK CLASS "A" CONCRETE. 6. ALL PIPING EXTENDING THROUGH CONCRETE CURB SHALL BE WRAPPED WITH 20 MIL. PLUMBERS TAPE.
7. ALL EXPOSED PARTS SHALL BE
PRIMERED AND PAINTED WITH RUST PREVENTIVE PAINT. 8. ENCLOSURE DIMENSIONS WILL VARY DEPENDING ON SIZE AND TYPE OF EQUIPMENT. SEE MINIMUM CLEARANCE CHART ON CITY STD, NO. W-10.



