

# **CITY OF REEDLEY**

**ENGINEERING DEPARTMENT**

## **STANDARD PLANS**



**October, 2019**

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**CITY OF REEDLEY  
ENGINEERING DEPARTMENT  
1733 NINTH STREET  
REEDLEY, CA 93654**

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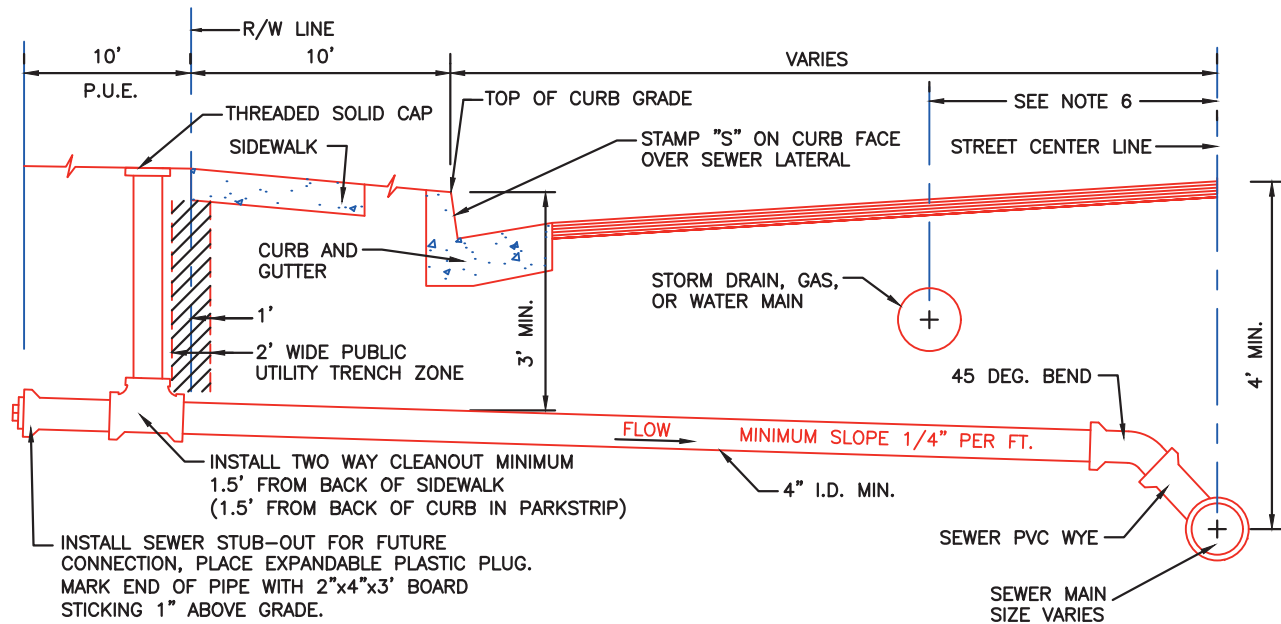
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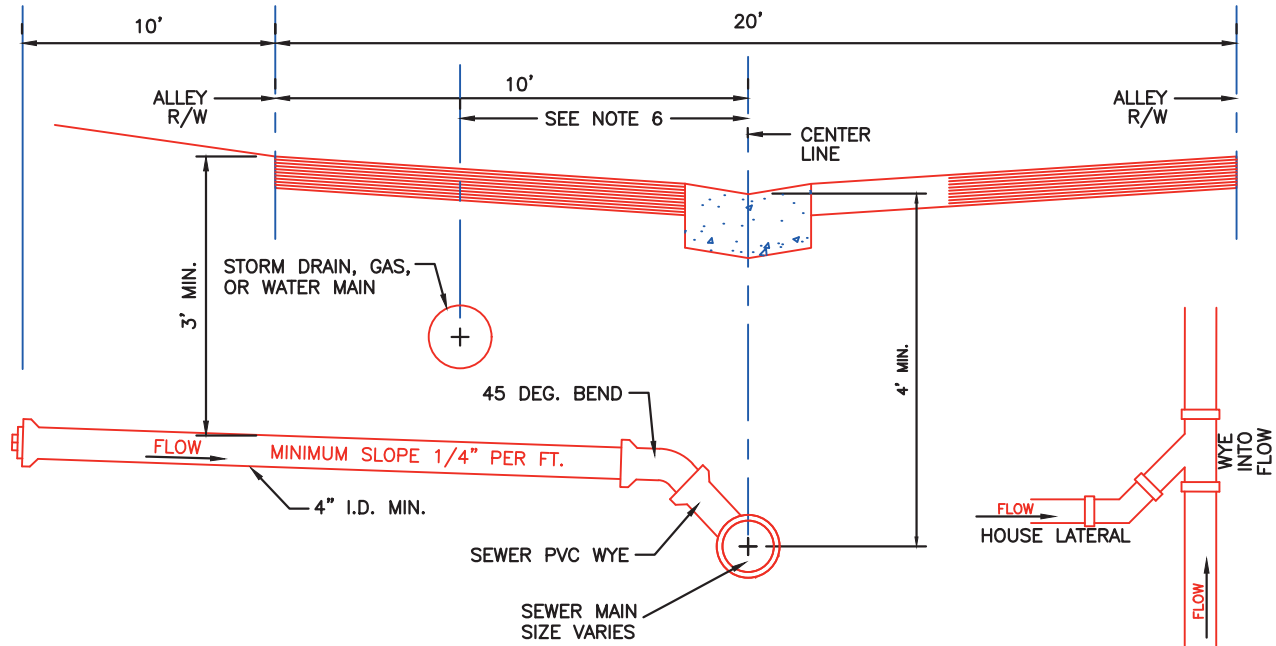
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### STREET INSTALLATION

#### NOTES:

1. SEWER SERVICE LATERAL WITHIN A RESIDENTIAL SUBDIVISION SHALL BE LOCATED 10 FT OFF FROM CENTER OF LOT.
2. COMPACT SOIL UNDER AND AROUND PVC SEWER WYE TO AVOID SHEAR.
3. LATERALS LOCATED SO AS NOT TO CONFLICT WITH PUBLIC UTILITIES.
4. P.U.E. = PUBLIC UTILITY EASEMENT
5. SEWER SERVICE LATERAL TO BE SDR-35 or 21 W/GASKETS. PVC W/ MIN. PIPE STIFFNESS OF 46 AT 5% DEFLECTION.
6. REFER TO CITY STD. ST-72 FOR LOCATION OF UNDERGROUND UTILITIES AND MINIMUM CLEARANCES.



### ALLEY INSTALLATION

### PLAN VIEW

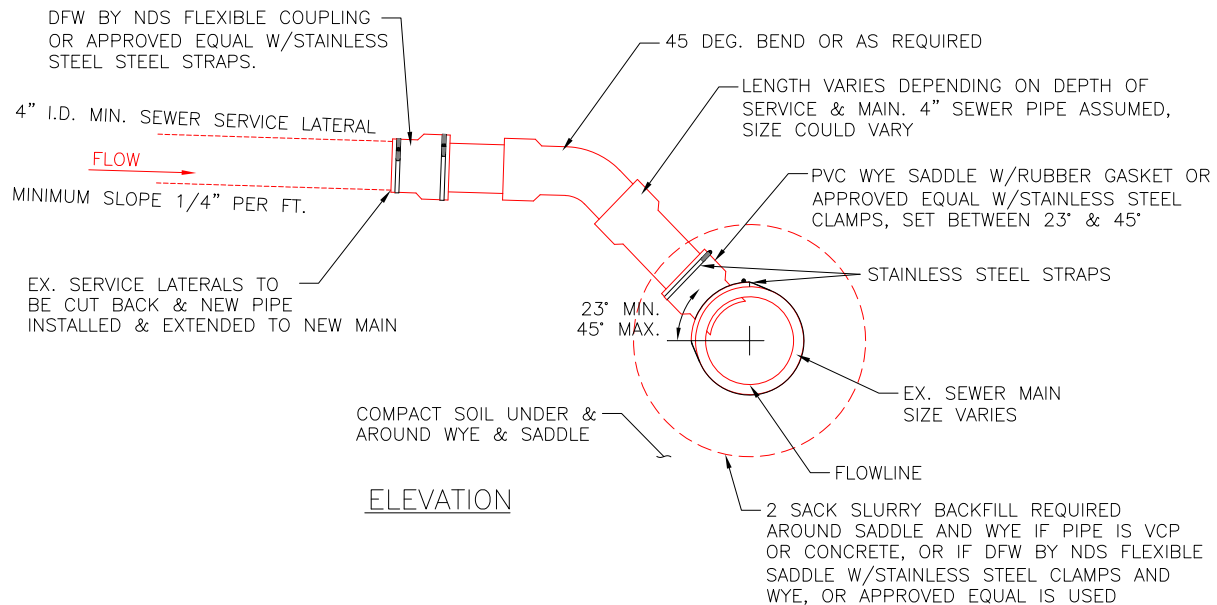
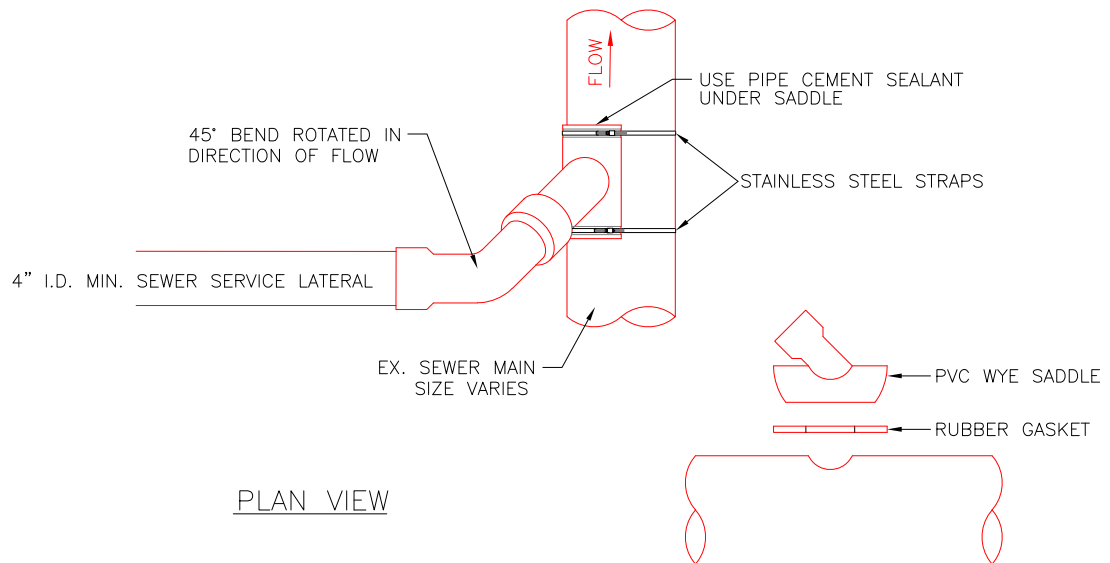


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ST-72

## SEWER SERVICE LATERAL CONNECTION INTO NEW SEWER MAIN

CITY OF REEDLEY

S-1



NOTES:

1. FOR SEWER MAINS 18" OR LARGER, A MANHOLE MUST BE CONSTRUCTED WHERE CONNECTIONS ARE MADE.
2. THE CITY PUBLIC WORKS INSPECTOR MUST OBSERVE ALL SADDLE & CORE CONNECTIONS TO EXISTING CITY SEWER MAINS.
3. VITRIFIED CLAY PIPE SADDLES SHALL BE EXTRA STRENGTH CLAY PIPE AND SHALL CONFORM TO THE REQUIREMENTS OF THE "WEST COAST STANDARDS OF THE CLAY PIPE INSTITUTE".
4. OPENINGS INTO EXISTING SEWER MAINS SHALL BE MADE ONLY LARGE ENOUGH TO ADMIT ALL OF SADDLE FITTINGS.
5. THIS STANDARD DETAIL IS ONLY TO BE USED WHEN CONNECTING TO EXISTING SEWER MAIN LINES. NEW LINES SHALL HAVE WYES AS PER CITY STD. PLAN S-1.
6. APPLY SILICON SEALANT TO COMPRESSION SCREWS AND WRAP STAINLESS STEEL STRAP WITH THREE (3) LAYERS OF PVC TAPE.
7. IF CONTRACTOR CUTS PIPE TO INSTALL A TEE OR WYE, CUTS SHALL BE SQUARE. USE STRONG BACK RC SERIES REPAIR COUPLING WITH STAINLESS BANDS.



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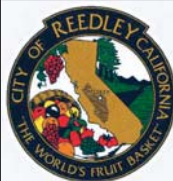
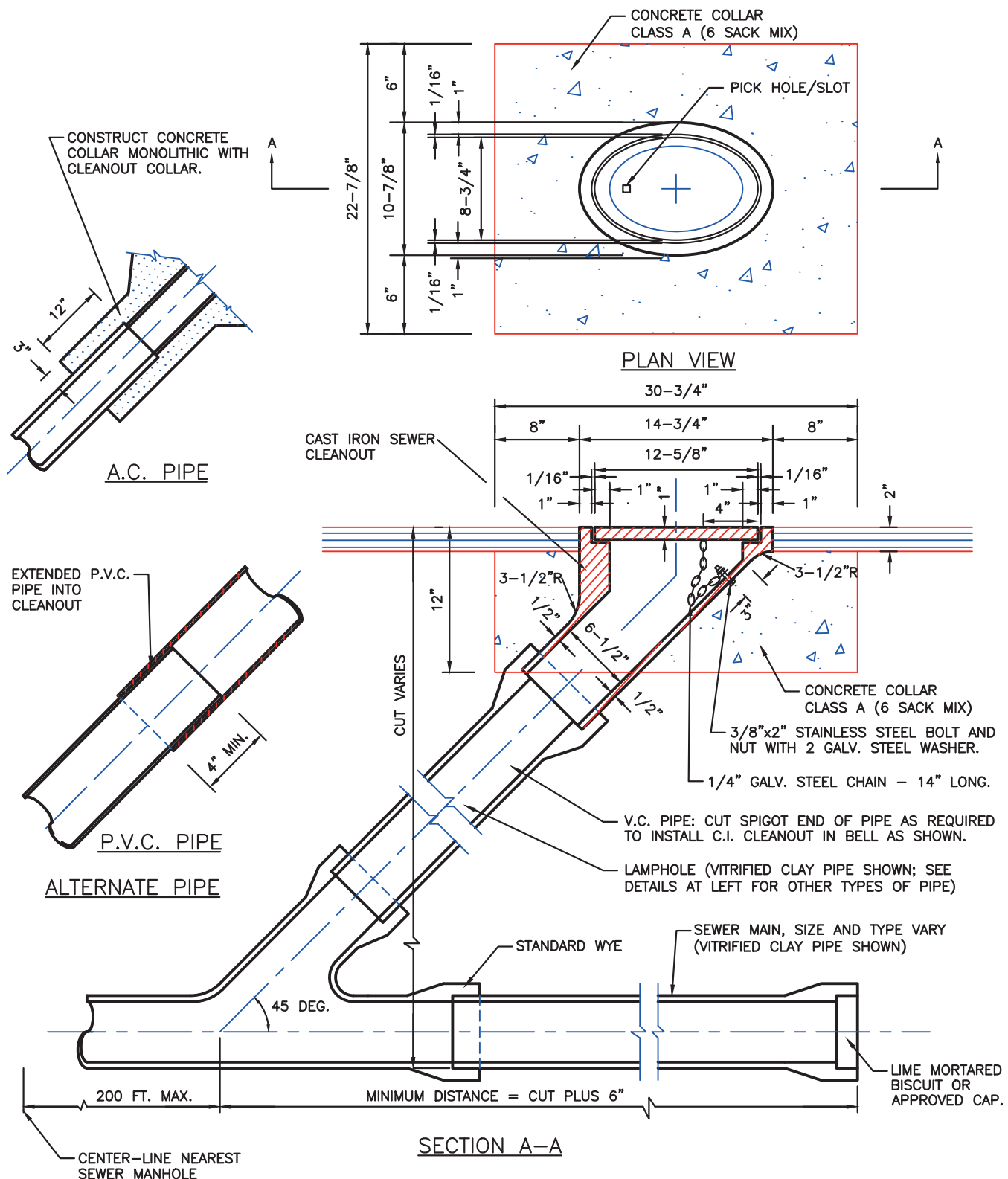
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## SEWER LATERAL SERVICE CONNECTION INTO EXISTING SEWER MAIN

*CITY OF REEDLEY*

**S-2**



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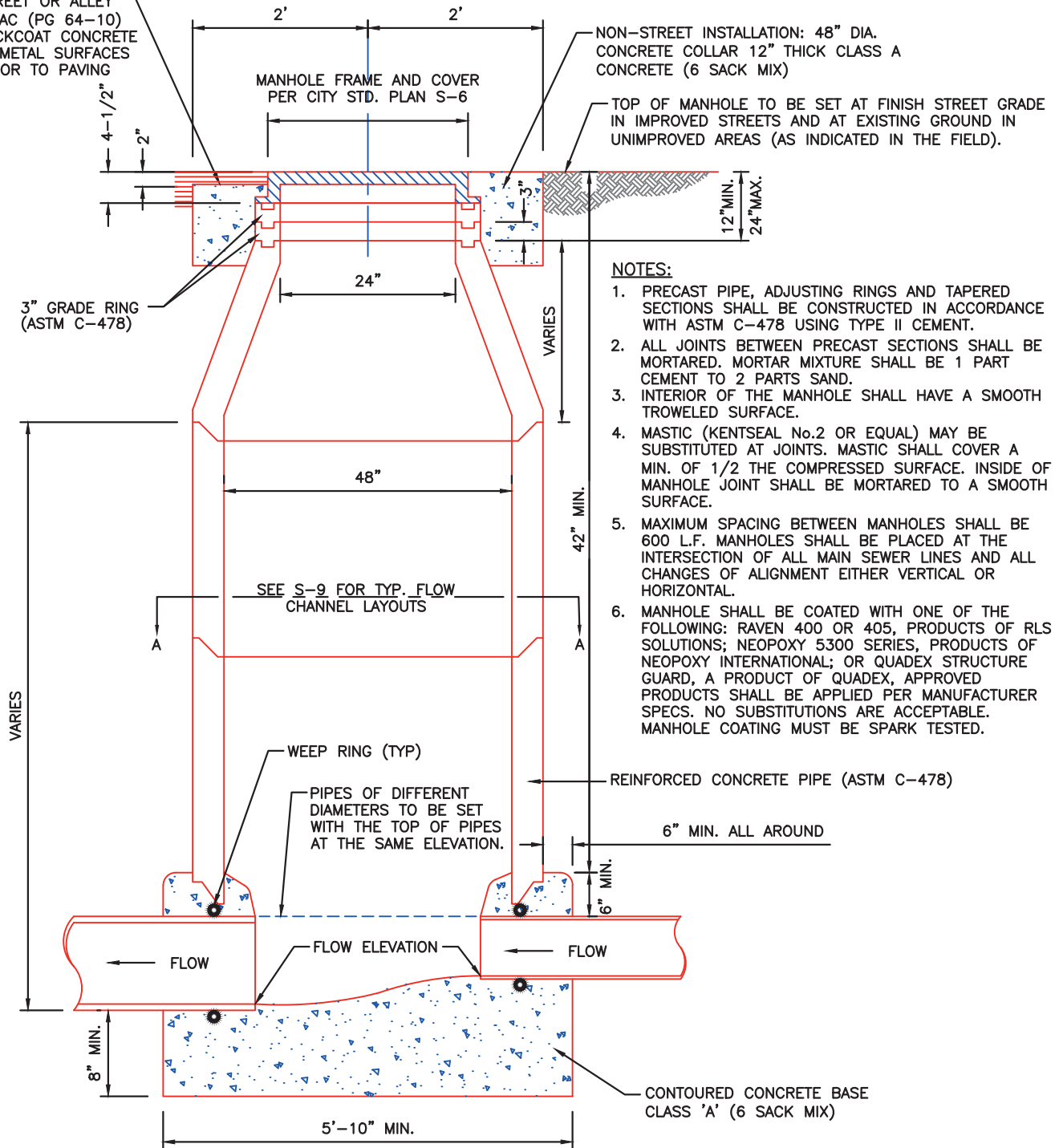
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## SEWER CLEANOUT

CITY OF REEDLEY

S-3

TO BE PAVED IN STREET OR ALLEY W/AC (PG 64-10) TACKCOAT CONCRETE & METAL SURFACES PRIOR TO PAVING



#### NOTES:

1. PRECAST PIPE, ADJUSTING RINGS AND TAPERED SECTIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH ASTM C-478 USING TYPE II CEMENT.
2. ALL JOINTS BETWEEN PRECAST SECTIONS SHALL BE MORTARED. MORTAR MIXTURE SHALL BE 1 PART CEMENT TO 2 PARTS SAND.
3. INTERIOR OF THE MANHOLE SHALL HAVE A SMOOTH TROWELED SURFACE.
4. MASTIC (KENTSEAL No.2 OR EQUAL) MAY BE SUBSTITUTED AT JOINTS. MASTIC SHALL COVER A MIN. OF 1/2 THE COMPRESSED SURFACE. INSIDE OF MANHOLE JOINT SHALL BE MORTARED TO A SMOOTH SURFACE.
5. MAXIMUM SPACING BETWEEN MANHOLES SHALL BE 600 L.F. MANHOLES SHALL BE PLACED AT THE INTERSECTION OF ALL MAIN SEWER LINES AND ALL CHANGES OF ALIGNMENT EITHER VERTICAL OR HORIZONTAL.
6. MANHOLE SHALL BE COATED WITH ONE OF THE FOLLOWING: RAVEN 400 OR 405, PRODUCTS OF RLS SOLUTIONS; NEOPOXY 5300 SERIES, PRODUCTS OF NEOPOXY INTERNATIONAL; OR QUADEX STRUCTURE GUARD, A PRODUCT OF QUADEX, APPROVED PRODUCTS SHALL BE APPLIED PER MANUFACTURER SPECS. NO SUBSTITUTIONS ARE ACCEPTABLE. MANHOLE COATING MUST BE SPARK TESTED.



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S-6 & S-9

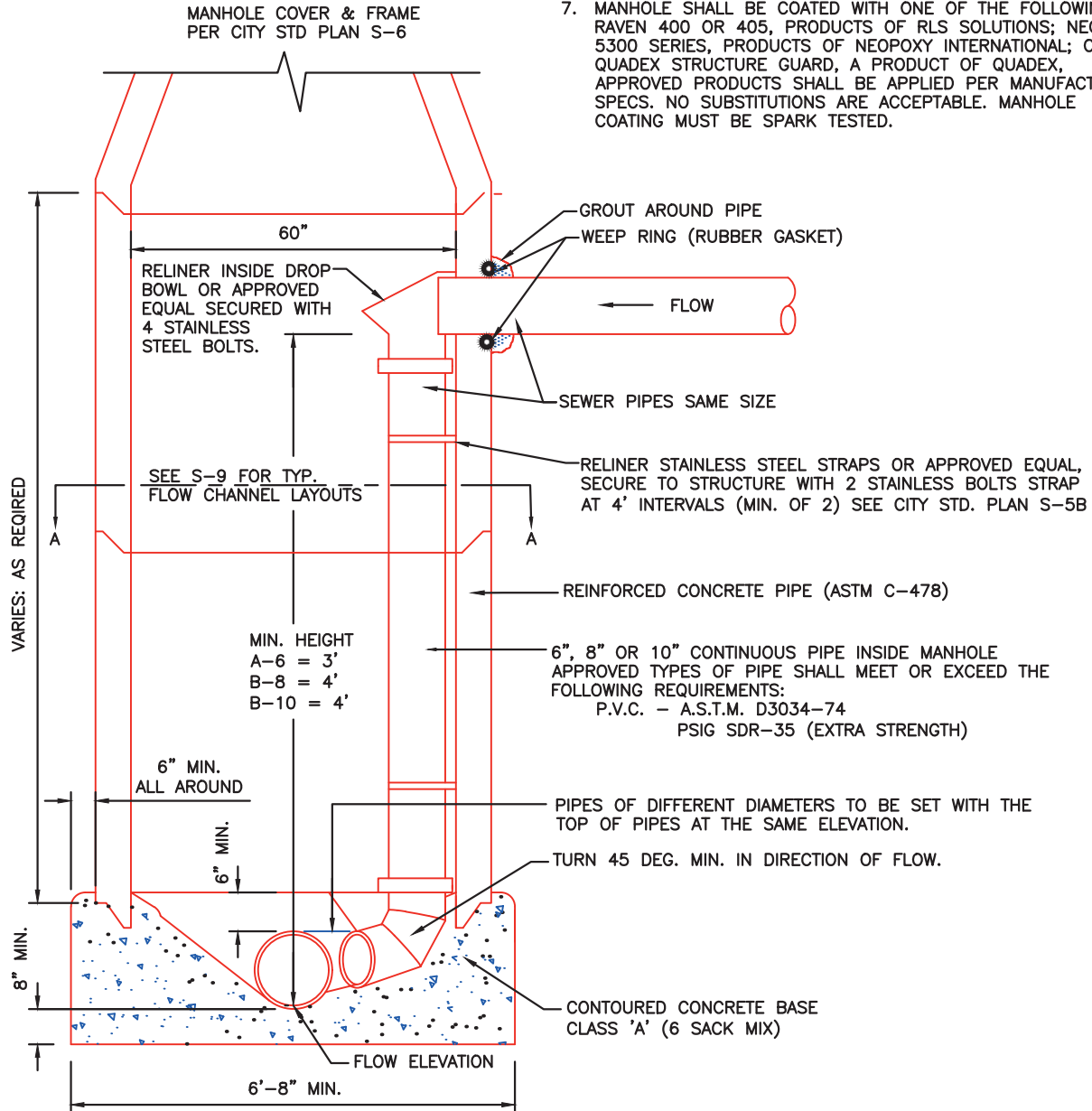
## SEWER MANHOLE

CITY OF REEDLEY

S-4

**NOTES:**

1. DROP MANHOLE WILL ONLY BE ALLOWED WITH THE APPROVAL OF CITY ENGINEER.
2. DROP MANHOLE IS ALLOWED ONLY IF THE DROP DISTANCE IS 2.5 FT. OR GREATER.
3. ALL JOINTS BETWEEN PRECAST SECTIONS SHALL BE MORTARED MIXTURE SHALL BE 1 PART CEMENT TO 2 PARTS SAND.
4. MASTIC (KENTSEAL No.2 OR EQUAL) MAY BE SUBSTITUTED AT JOINTS. MASTIC SHALL COVER A MIN. OF 1/2 THE COMPRESSED SURFACE. INSIDE OF MANHOLE JOINT SHALL BE MORTARED TO A SMOOTH SURFACE.
5. PRECAST PIPE, ADJUSTING RINGS AND TAPERED SECTIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH ASTM C-478 USING TYPE II CEMENT.
6. IF MAXIMUM SPACING BETWEEN MANHOLES SHALL BE 600 L.F. MANHOLES SHALL BE PLACED AT THE INTERSECTION OF ALL MAIN SEWER LINES AND ALL CHANGES OF ALIGNMENT EITHER VERTICAL OR HORIZONTAL.
7. MANHOLE SHALL BE COATED WITH ONE OF THE FOLLOWING: RAVEN 400 OR 405, PRODUCTS OF RLS SOLUTIONS; NEOPOXY 5300 SERIES, PRODUCTS OF NEOPOXY INTERNATIONAL; OR QUADEX STRUCTURE GUARD, A PRODUCT OF QUADEX, APPROVED PRODUCTS SHALL BE APPLIED PER MANUFACTURER SPECS. NO SUBSTITUTIONS ARE ACCEPTABLE. MANHOLE COATING MUST BE SPARK TESTED.



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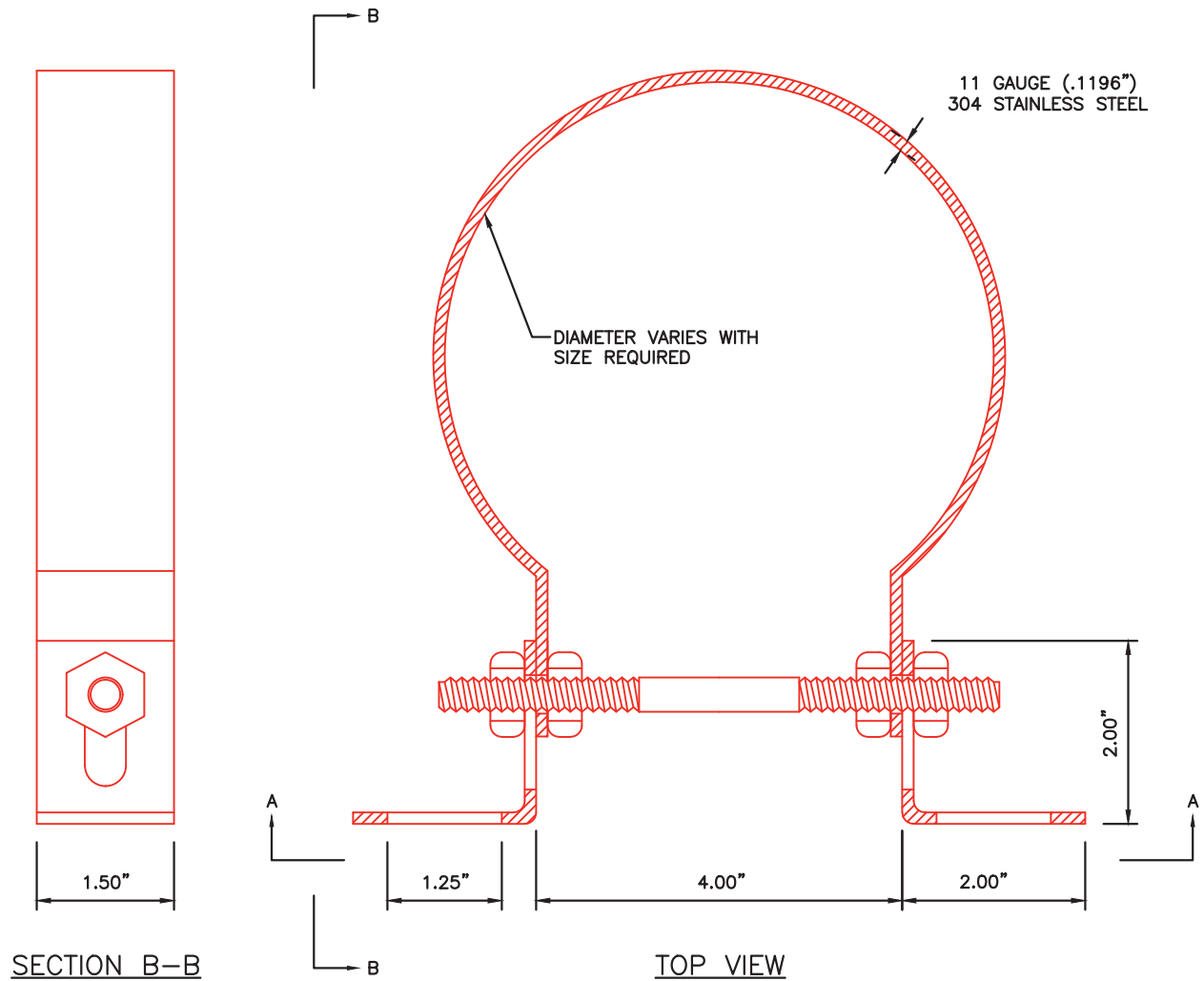
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REF. STD. DWG.:  
ST-5B, 6 & 9

## SEWER DROP MANHOLE

*CITY OF REEDLEY*

**S-5**



**NOTES:**

1. STAINLESS STEEL ADJUSTABLE CLAMPING BRACKET AS MANUFACTURED BY RELINER-DURAN, INC OR APPROVED EQUAL.
2. CLAMP AND BRACKETS IS TYPE 304 STAINLESS STEEL, 11 GAUGE (.1196").
3. 3/8"  $\varnothing$  PINCH BOLT AND NUTS IS TYPE 18-8 STAINLESS STEEL.

**SECTION A-A**



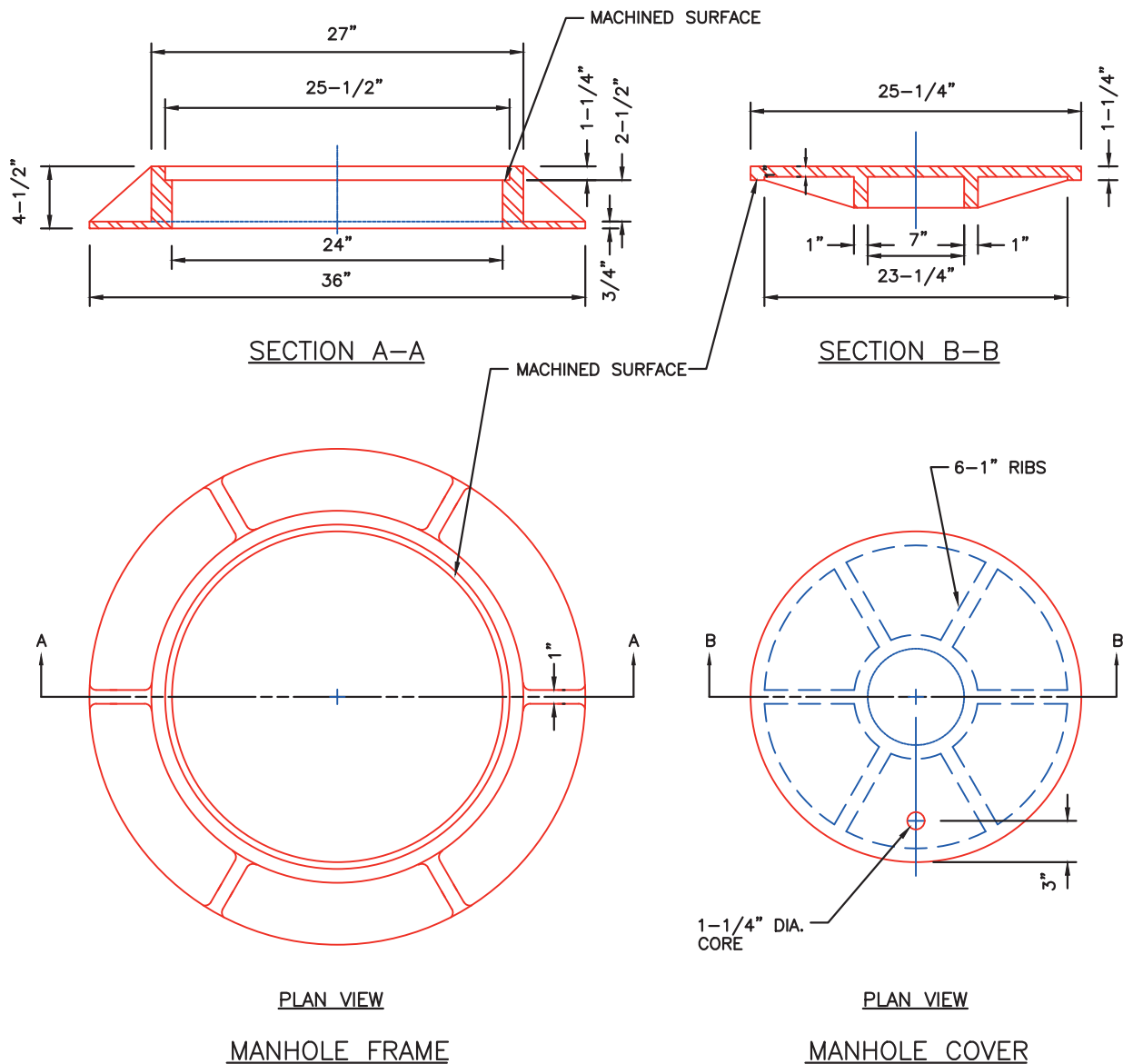
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**STAINLESS STEEL  
ADJUSTABLE CLAMPING  
BRACKETS**

*CITY OF REEDLEY*

**S-5B**





**NOTES:**

1. ALL DIMENSIONS ARE FINISHED DIMENSIONS.
2. MATERIAL SHALL BE CAST IRON.
3. FRAME AND COVER TO BE CONSTRUCTED IN ACCORDANCE WITH A.S.T.M. DESIGNATION A48, CLASS 25.
4. MANHOLE COVER DESIGN, AS A MINIMUM, IS TO HAVE THE WORDS "STORM SEWER" OR "SANITARY SEWER" MOLDED INTO THE COVER.
5. FRAME AND COVER SHALL MATCH CROSS SLOPE.
6. NEENAH TYPE C MODEL NO. R-1593 CHECKERED TOP DESIGN WITH "SANITARY SEWER" MOLDED INTO COVER.

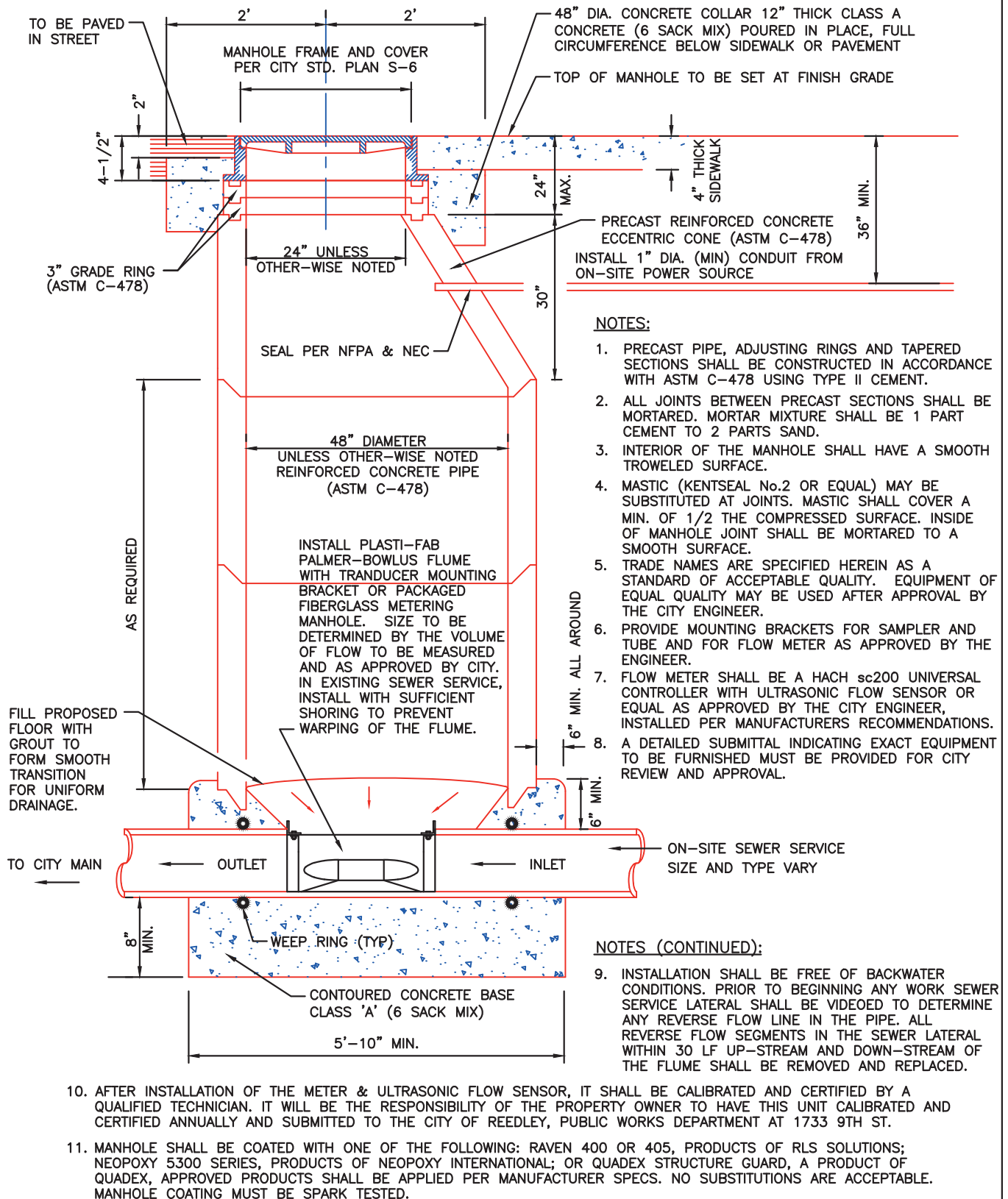


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**MANHOLE FRAME  
AND COVER**

*CITY OF REEDLEY*

**S-6**



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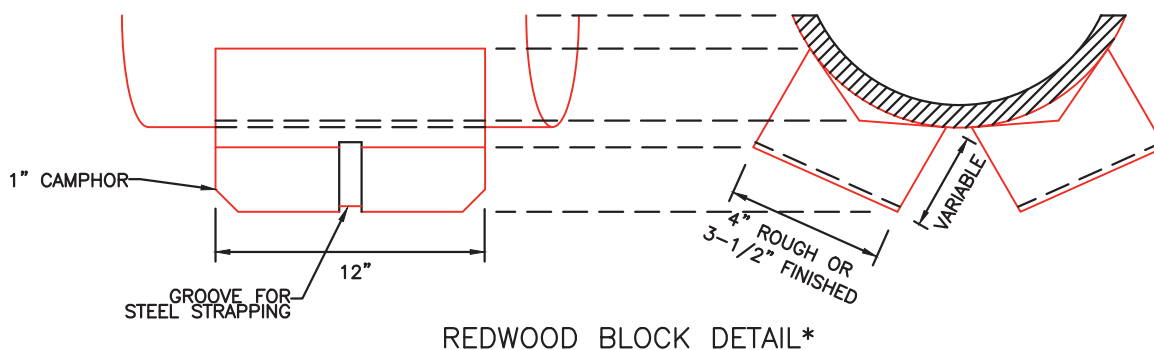
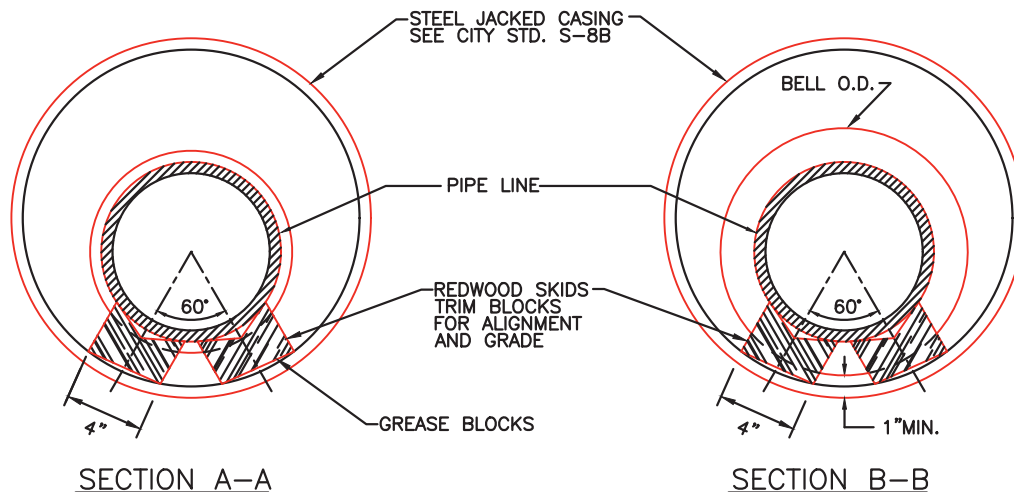
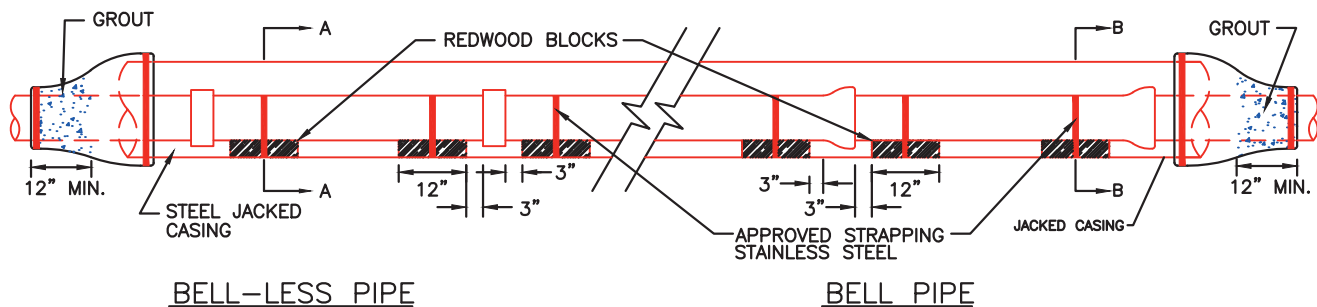
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S-6

## SEWER MONITORING MANHOLE

CITY OF REEDLEY

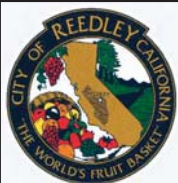
S-7



#### NOTES:

1. REDWOOD BLOCKS SHALL BE CONSTRUCTION GRADE.
2. REDWOOD BLOCKS SHALL BE VEED TO FIT CONTOUR OF PIPE.
3. WHEN JACKING CASING GRADE SHALL BE SET SO CENTERLINE OF CASING SHALL COINCIDE WITH CENTERLINE OF SEWER PIPE.
4. REDWOOD BLOCKS SHALL BE STRAPPED TO THE PIPE WITH STEEL STRAPPING OR APPROVED WIRE BANDS.
5. PLUG ENDS OF CASING WITH 12 INCHES MINIMUM OF CONCRETE.
6. CONCRETE SHALL BE CLASS B.

\*ALTERNATE: SST CASING  
SPACERS W/ GLASS FILLED  
POLYMER RUNNERS.



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S-8B

## INSTALLATION OF CARRIER PIPE IN JACKED STEEL CASING

CITY OF REEDLEY

S-8A

NOMINAL DIAMETER (INCHES)	WHEN COATED OR CATHODICALLY PROTECTED NOMINAL THICKNESS (INCHES)	WHEN NOT COATED OR CATHODICALLY PROTECTED NOMINAL THICKNESS (INCHES)
12-3/4 AND UNDER	0.188	0.188
14	0.188	0.250
16	0.219	0.281
18	0.250	0.312
20 AND 22	0.281	0.344
24	0.312	0.375
28	0.344	0.406
30	0.375	0.438
32	0.406	0.469
34 AND 36	0.438	0.500
38	0.469	0.531
40	0.500	0.562
42	0.531	0.594
44 AND 46	0.562	0.625
48	0.594	0.656
50	0.656	0.688
52	0.688	0.719
54	0.719	0.750
56 AND 58	0.750	0.781
60	0.781	0.812
62	0.812	0.844
64	0.844	0.875
66 AND 68	0.875	0.906
70	0.906	0.969
72	0.938	1.000

NOTE:

THIS TABLE WAS REFERENCED FROM AREMA MANUAL FOR RAILWAY ENGINEERING.

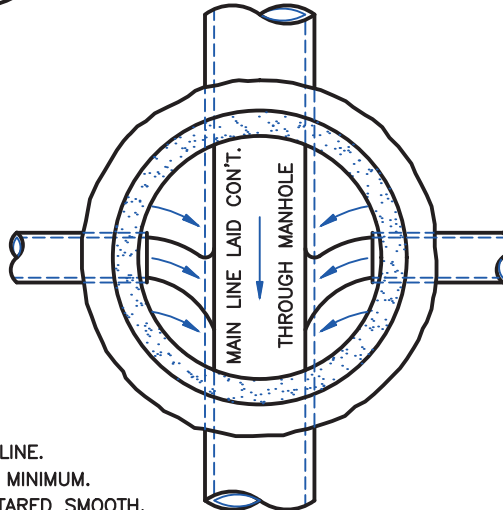
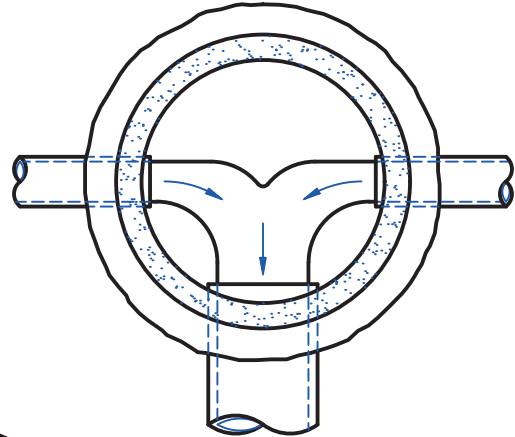
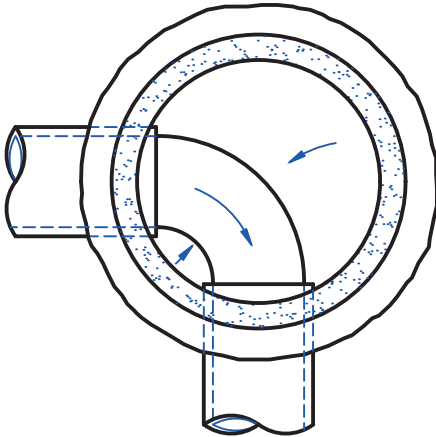
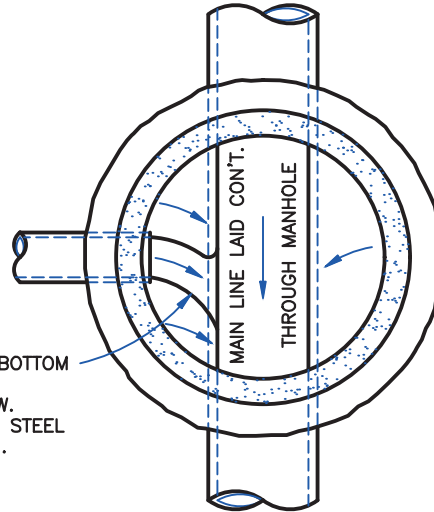
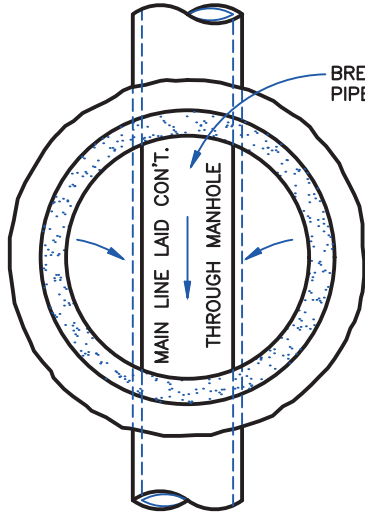


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# JACKED STEEL CASING SIZE AND THICKNESS

*CITY OF REEDLEY*

**S-8B**



**NOTES:**

1. SLOPE BENCHES TOWARD MAIN LINE.
2. OPENING IN PIPE MUST BE 44" MINIMUM.
3. EDGES TO BE SMOOTH OR MORTARED SMOOTH.
4. BENDS IN MANHOLES MUST HAVE CENTERLINE RADIUS OF 24" IN 48" MANHOLES AND 30" IN 60" MANHOLES.



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**TYPICAL FLOW CHANNELS  
FOR SEWER MANHOLES**

*CITY OF REEDLEY*

**S-9**

NOTES:

1. THE SIZE AND DETAILS OF ALL INTERCEPTORS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CALIFORNIA PLUMBING CODE, CURRENT EDITION. HEREINAFTER REFERRED TO AS CPC. ALL INTERCEPTORS SHALL BE SEALED AND WATER TIGHT.
2. INTERCEPTORS SHALL BE CONSTRUCTED AND VENTED IN ACCORDANCE WITH THE SPECIFICATIONS SET FORTH IN THE CPC.
3. THE LOCATION OF THE INTERCEPTOR SHALL BE APPROVED BY BOTH THE PUBLIC WORKS DEPARTMENT AND ENGINEERING DEPARTMENT PRIOR TO CONSTRUCTION.
4. ALL CAST IN PLACE OR PRECAST INTERCEPTOR UNITS SHALL BE APPROVED BY BOTH THE PUBLIC WORKS DEPARTMENT AND ENGINEERING DEPARTMENT PRIOR TO CONSTRUCTION.
5. THE OWNER SHALL BE RESPONSIBLE FOR PROVIDING ALL DOCUMENTATION & TESTING TO CERTIFY THAT THE INTERCEPTORS AND WASTE STREAMS MEETS THE REQUIREMENTS OF ALL CURRENT REGULATIONS AND BOTH THE PUBLIC WORKS DEPARTMENT AND ENGINEERING DEPARTMENT REQUIREMENTS.
6. PRE-CAST INTERCEPTORS SHALL BE LABELED WITH THE MANUFACTURERS NAME, MODEL NUMBER AND SHALL HAVE AN I.A.P.M.O. CERTIFICATION MARK.
7. ALL CONCRETE FOR CAST-IN-PLACE INTERCEPTORS SHALL BE CLASS 2 CONCRETE IN ACCORDANCE WITH THE CITY OF REEDLEY STANDARD SPECIFICATIONS.
8. CAST IRON FRAMES MAY BE CAST INTO THE INTERCEPTOR LID.
9. ALL INTERCEPTORS SHALL BE ACCESSIBLE TO BOTH THE PUBLIC WORKS DEPARTMENT AND ENGINEERING DEPARTMENT FOR TESTING AT ANY TIME.
10. DOCUMENTS MUST BE SUBMITTED ANNUALLY TO THE PUBLIC WORKS DEPARTMENT AT  
  
CITY OF REEDLEY  
PUBLIC WORKS DEPARTMENT  
REEDLEY, CA 93654  
559-637-4200
11. INTERCEPTOR FOR FATS, ORGANICS, AND GAS PERMIT IS REQUIRED BY PUBLIC WORKS DEPARTMENT.



SCALE:  
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REVISED:  
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REF. STD. DWG.:

**OUTSIDE COMMERCIAL &  
INDUSTRIAL SAND, SILT,  
GREASE, OIL & GARBAGE  
INTERCEPTORS**

*CITY OF REEDLEY*

**S-10**

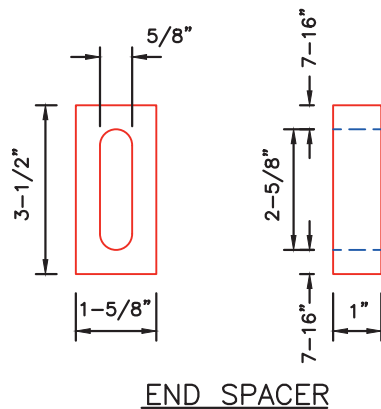
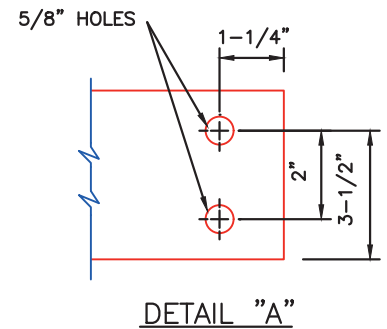
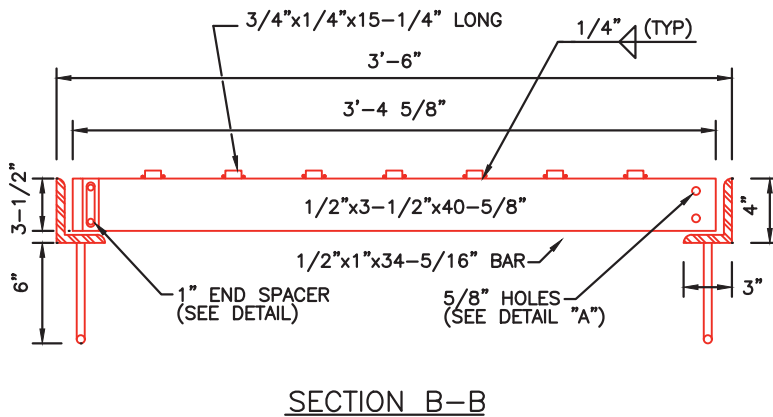
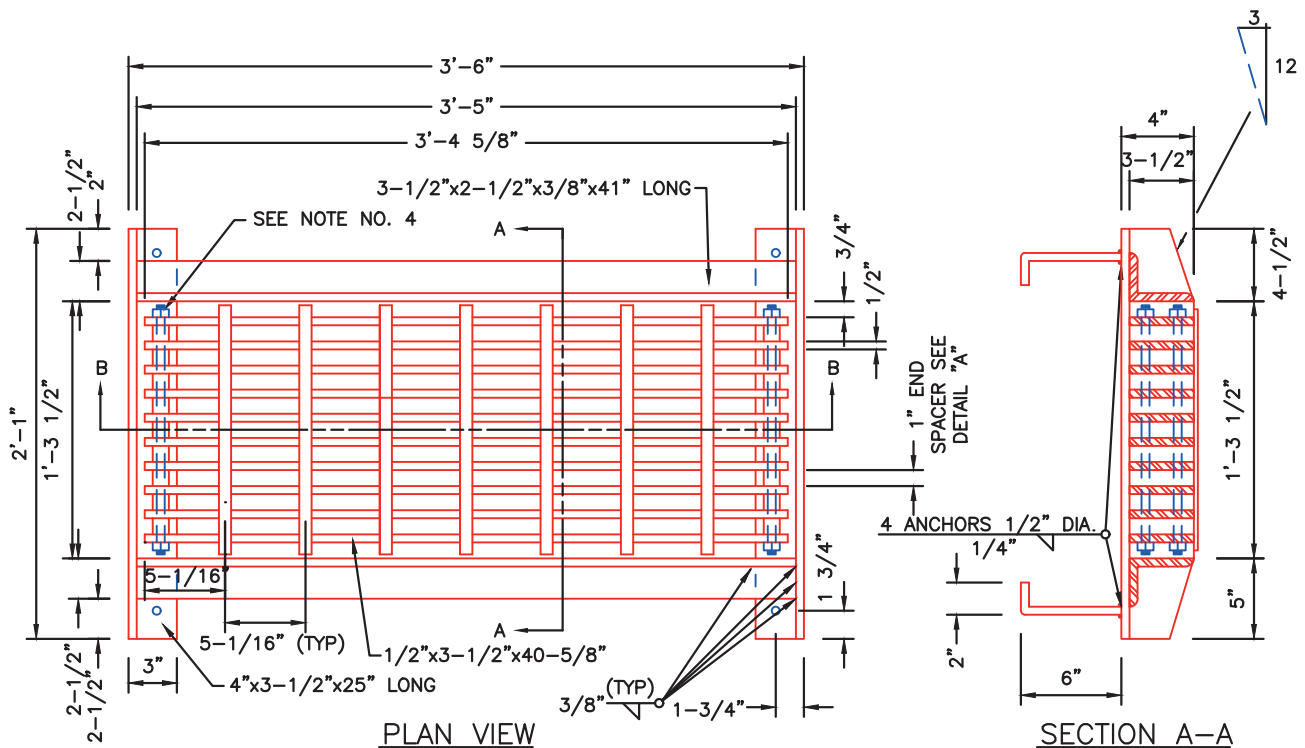












#### NOTES:

1. ALL DIMENSIONS ARE FINISHED DIMENSIONS.
2. ALL PARTS SHALL BE STRUCTURAL GRADE STEEL.
3. ALL EXPOSED METAL PARTS SHALL BE PAINTED OR DIPPED WITH ASPHALTUM PAINT.
4. 2-1/2" X 15-3/8" STEEL RODS. ONE NUT ON EACH END. TACK WELD NUTS TO ADJACENT BARS AFTER ASSEMBLY, ON EACH SIDE.

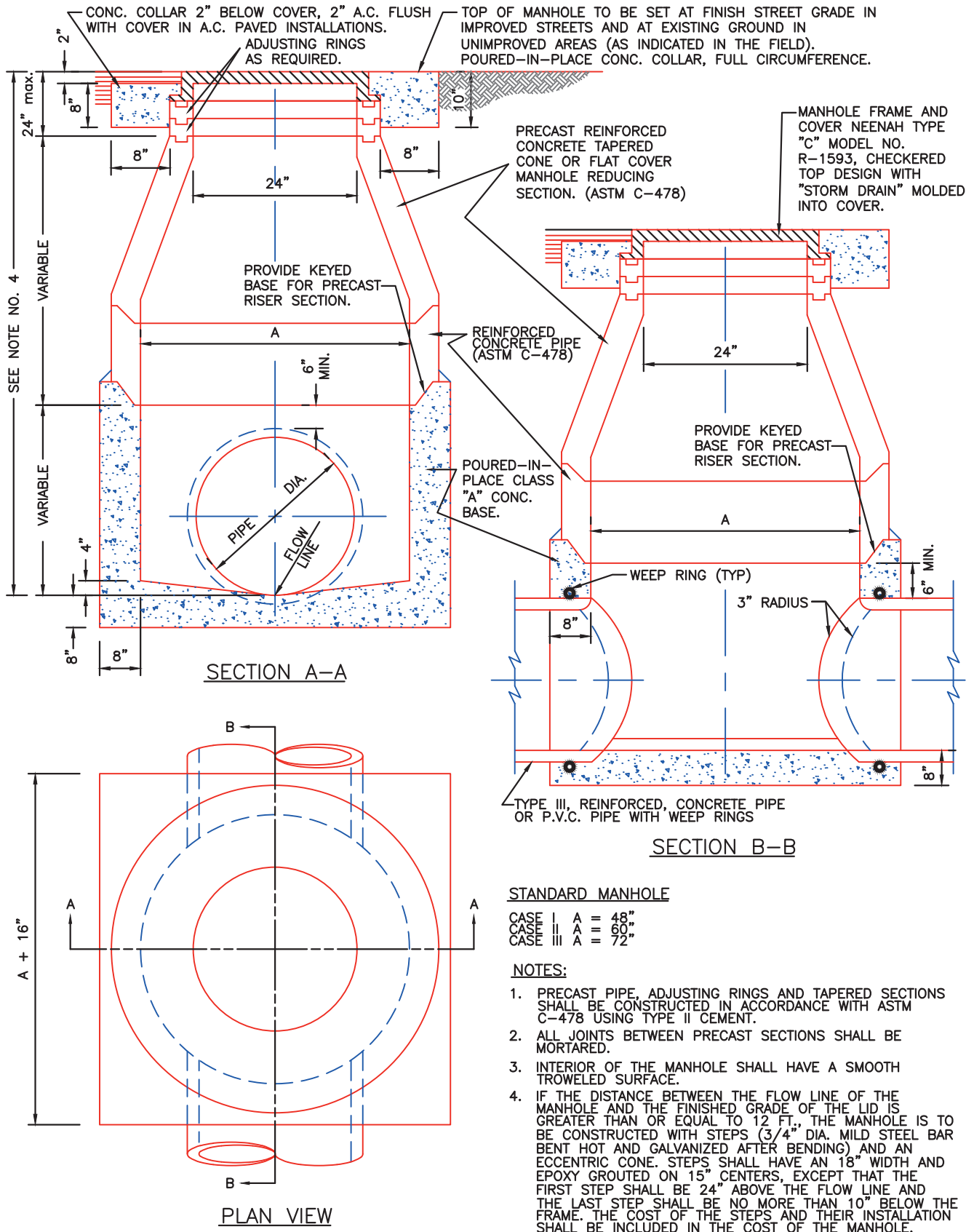


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REVISED:  
MAR. 2020  
REF. STD. DWG.:

## TYPE "B" FRAME AND GRATE

CITY OF REEDLEY

SD-4



SCALE:  
NOT TO SCALE

REVISED:  
MAR. 2020

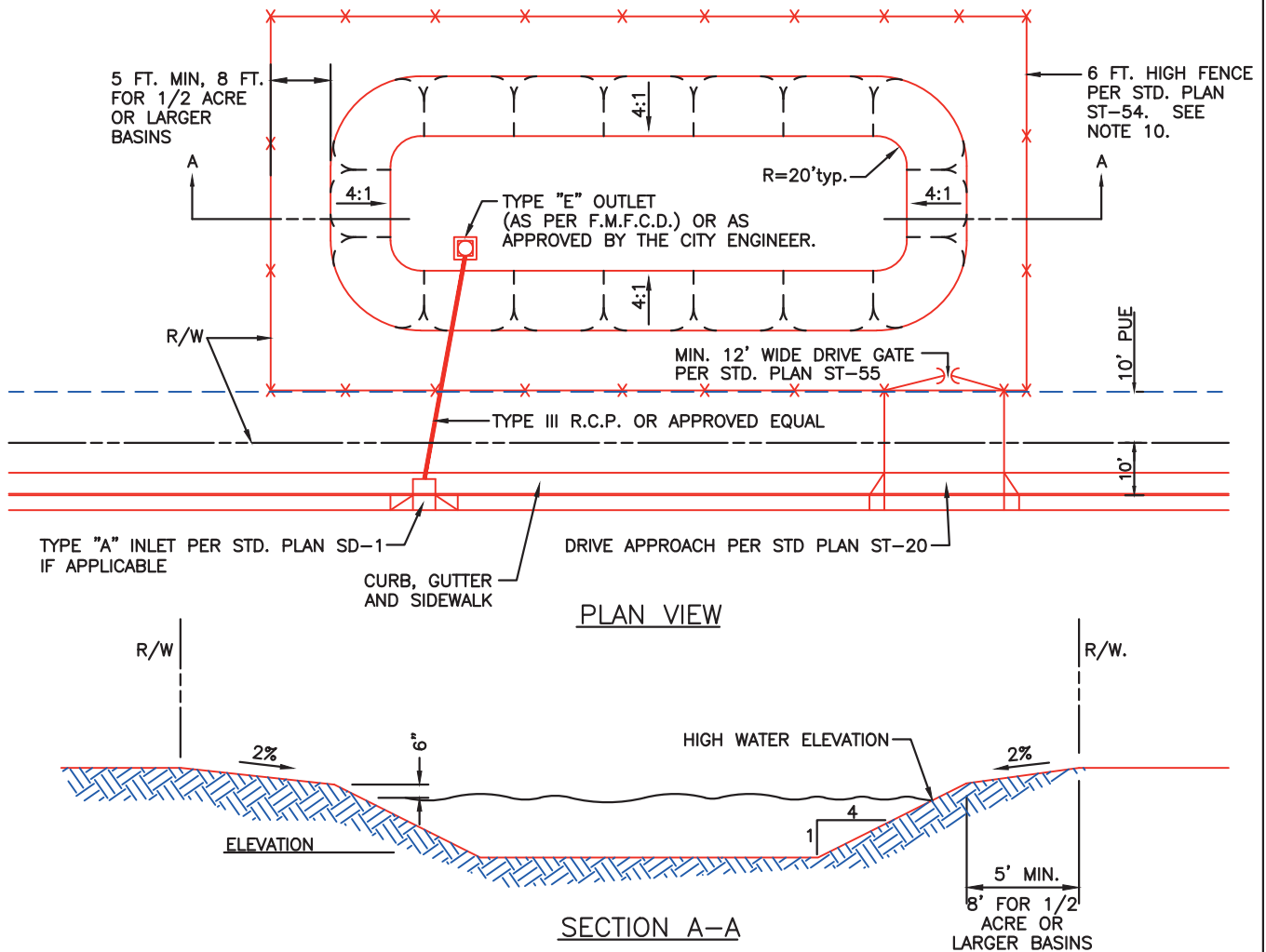
REF. STD. DWG.:

## STORM DRAIN MANHOLE

CITY OF REEDLEY

SD-5





**NOTES: DESIGN MINIMUMS**

- OVERFLOW MUST BE TO THE STREET, UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.
- DESIGN WATER SURFACE ELEVATION SHALL BE 6" INCHES BELOW THE LOWEST INLET FLOW LINE OR POND PERIPHERAL ELEVATION, WHICHEVER IS LOWER.
- REQUIRED CAPACITY:  $V = C I A$  WHERE,
  - C = RUNOFF COEFFICIENT
  - V = REQUIRED BASIN CAPACITY IN CUBIC FEET
  - I = RAINFALL FROM A DESIGN STORM (0.28" / 5YR.- 10 DAY STORM MIN.)
  - A = TRIBUTARY AREA IN SQUARE FEET.
- PROVIDE COMPOSITE "C" CALCULATIONS.
- EIGHT (8') FOOT WIDE VEHICLE RAMP WITH A MAX. SLOPE OF 15% REQUIRED IN 1/2 ACRE OR LARGER BASINS.
- TEMPORARY PONDING BASINS SHALL BE FENCED WITHIN SEVEN (7) DAYS TIME AFTER THEY BECOME OPERATIONAL.
- BASIN SHALL BE SIZED TO HANDLE THE REQUIRED STORAGE VOLUME WITHOUT EXCEEDING AN EXCAVATION DEPTH OF TWELVE (12') FEET.
- ADEQUATE AREA AT THE FLOOR OF THE BASIN SHALL BE PROVIDED FOR MANEUVERING MAINTENANCE EQUIPMENT.
- LANDSCAPING OF THE BASIN MAY NOT BE NECESSARY IF SCREENED FENCING IS PROVIDED; HOWEVER, LANDSCAPING TREATMENT BETWEEN THE FENCE & THE STREET MAY BE REQUIRED.
- FENCING IS NOT REQUIRED ON BASINS WHERE THE MAX. POSSIBLE WATER DEPTH DOES NOT EXCEED 18" & THE SIDE SLOPES ARE 6 TO 1 OR FLATTER.
- A SOIL BORING LOG TO A DEPTH OF NOT LESS THAN 30 FEET SHALL BE SUBMITTED TO THE CITY ENGINEER.



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REVISED:  
MAR. 2020

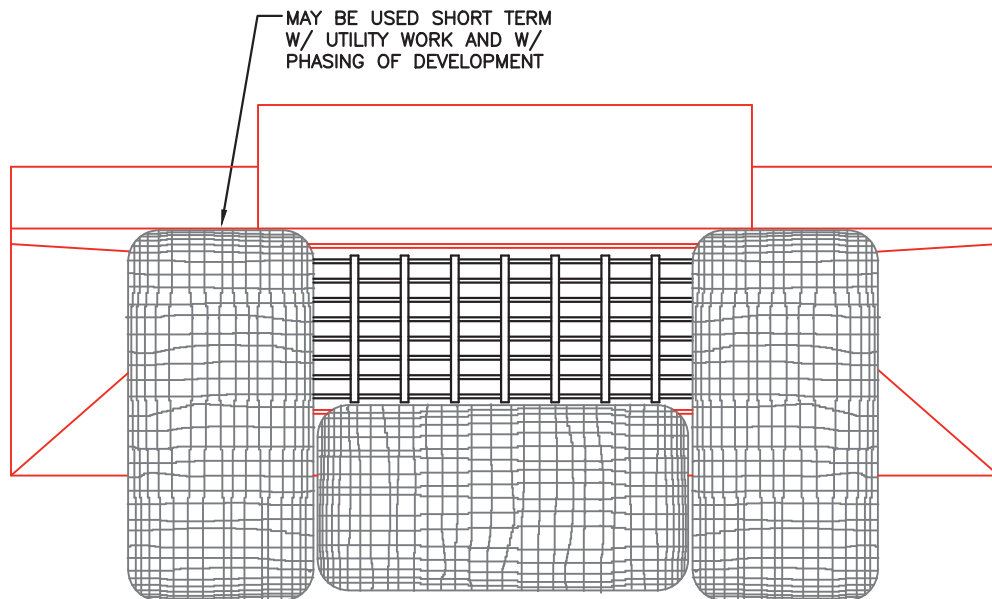
REF. STD. DWG.:  
ST-21, 54 & 55, SD-1

## TEMPORARY PONDING BASIN

CITY OF REEDLEY

SD-7

THE DEVELOPER SHALL INCORPORATE DUST AND EROSION CONTROL MEASURES INTO THE CONSTRUCTION PHASE OF THE PROJECT. THE CITY ENGINEER SHALL REVIEW AND APPROVE SAID MEASURES PRIOR TO THE ISSUANCE OF BUILDING OR ENCROACHMENT PERMITS. THE APPLICANT'S CONTRACTOR SHALL TAKE ALL REASONABLE PRECAUTIONS TO PREVENT SILT AND OTHER SEDIMENTATION FROM ENTERING THE CITY OF REEDLEY'S STORM DRAINAGE & SEWER SYSTEMS. SUCH PRECAUTIONS SHOULD GENERALLY CONFORM TO THE STATE WATER RESOURCES CONTROL BOARD – CONSTRUCTION GENERAL PERMIT, THE LATEST EDITION OF THE CALTRANS STORMWATER QUALITY HANDBOOK & SECTION 14 OF 2015 CALTRANS STANDARD SPECIFICATIONS. SUCH PRECAUTIONS AND DETAILS SHALL BE NOTED OR SHOWN ON THE GRADING AND DRAINAGE IMPROVEMENT PLANS AND ARE SUBJECT TO THE APPROVAL OF THE CITY ENGINEER.



BIOFILTER BAGS  
TEMPORARY

CATCH BASIN

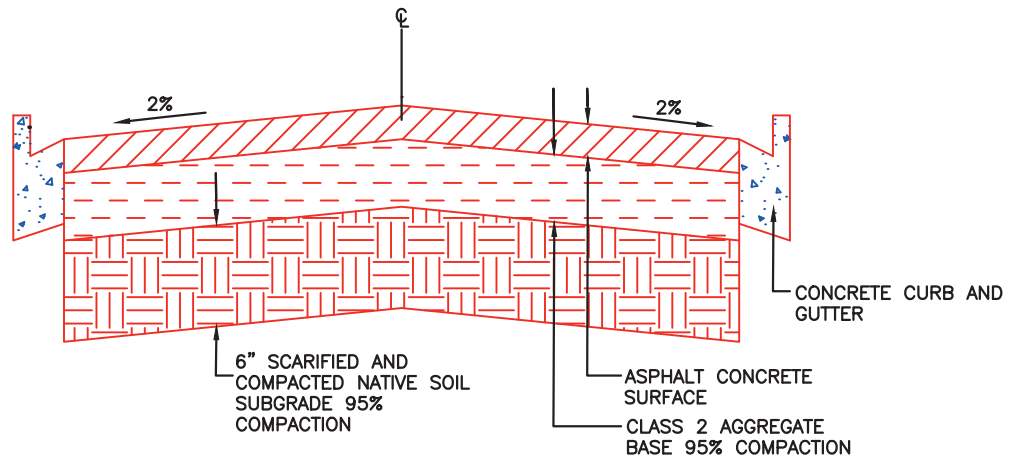


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REVISED:  
MAR. 2020  
REF. STD. DWG.:

## EROSION CONTROL

*CITY OF REEDLEY*

**SD-8**



TYPICAL STREET STRUCTURAL  
CROSS SECTION

#### TRAFFIC INDICES AND MINIMUM PAVEMENT SECTIONS

CLASS OF STREET	TRAFFIC INDEX "R" VALUE	MIN. AC	MIN. AB
MAJOR ARTERIAL	9	5.5"	6"
ARTERIAL	8	5"	6"
INDUSTRIAL OR COMMERCIAL COLLECTOR	7	4.5"	6"
LOCAL COLLECTOR OR BOULEVARD	6	3"	6"
LOCAL	5	2.5"	4"
ALLEY	4	2"	4"

#### NOTES:

1. ALL STREET STRUCTURAL PAVEMENT SECTIONS SHALL BE BASED ON "R" VALUE TESTS & CHAPTER 600 OF THE HIGHWAY DESIGN MANUAL.
2. STREET STRUCTURAL PAVEMENT SECTION CALCULATIONS SHALL BE SUBMITTED TO & APPROVED BY CITY ENGINEER.
3. A SAFETY FACTOR OF 0.2 SHALL BE APPLIED IN PAVEMENT CALCULATIONS.
4. SOIL TEST DATA USED IN THE DESIGN CALCULATIONS SHALL BE FURNISHED BY A SOILS TESTING LABORATORY REPORT TO BE SIGNED AND SEALED BY A CA REGISTERED CIVIL ENGINEER.



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REVISED:  
MAR. 2020

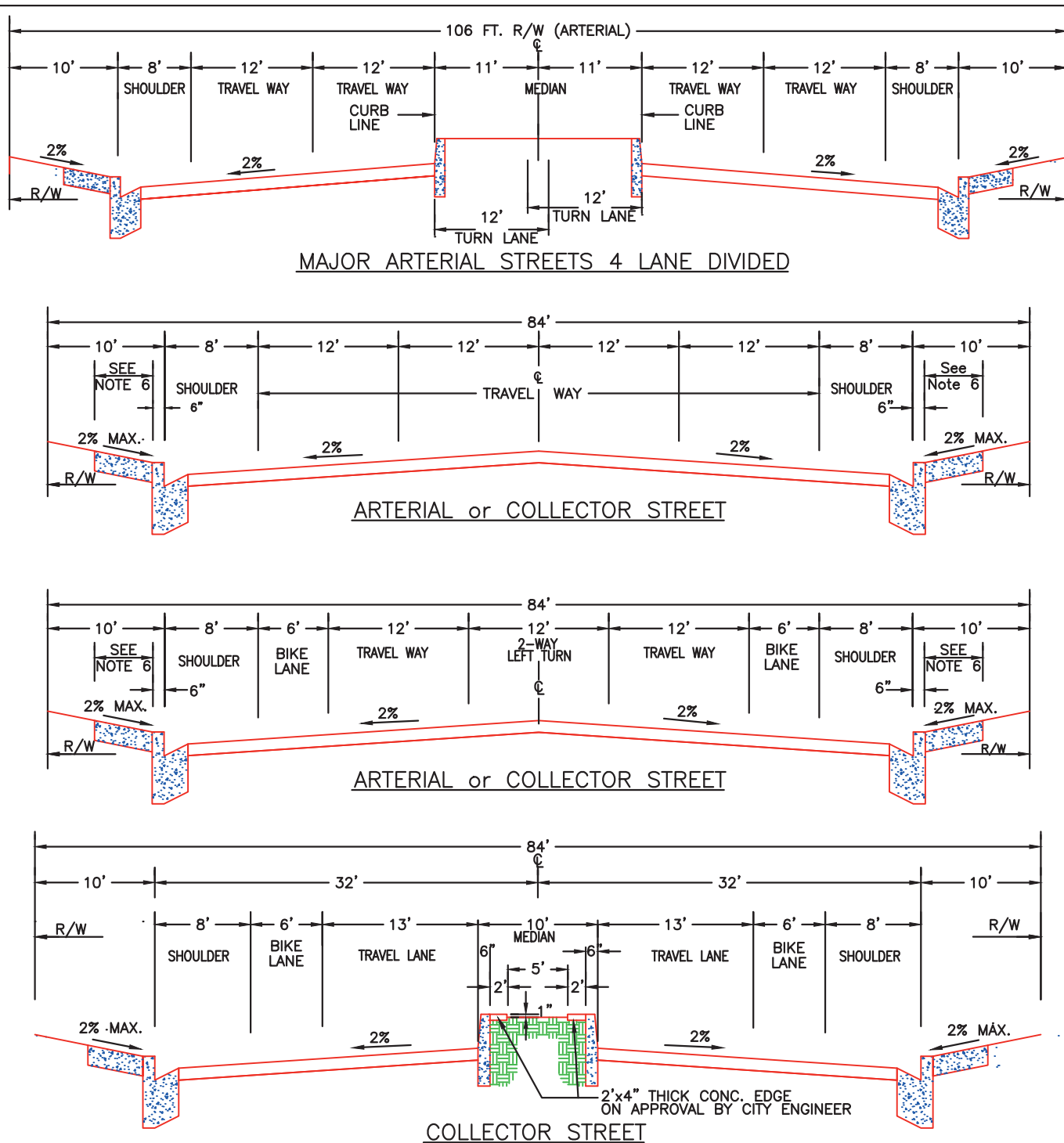
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N/A

## STREET STRUCTURAL SECTIONS

*CITY OF REEDLEY*

**ST-1**





#### NOTES:

1. 2" x 6" REDWOOD HEADERBOARD MAY BE REQUIRED WHERE FRACTIONAL PORTION OF STREET IS IMPROVED.
2. STREET STRUCTURAL SECTIONS SHALL BE BASED ON "R" VALUE TEST AND STANDARD PLAN ST-1.
3. A MINIMUM CENTER LINE RADIUS OF CURVATURE FOR MAJOR ARTERIAL AND ARTERIAL IS 1,000 FEET, UNLESS OTHERWISE DIRECTED BY THE CITY ENGINEER.
4. MEDIAN SHALL BE LANDSCAPED AND IRRIGATION IMPROVEMENTS INSTALLED.
5. THE INTERSECTION AREAS SHALL RECEIVE SPECIAL CONSIDERATION AS TO "STREET RIGHT OF WAY AND IMPROVEMENT STANDARDS" (ORD. 2000-05, 4-25-2000).
6. SIDEWALK WIDTH: RESIDENTIAL = 5', INDUSTRIAL = 5' AND COMMERCIAL = 9'-6".



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REVISED:  
MAR. 2020

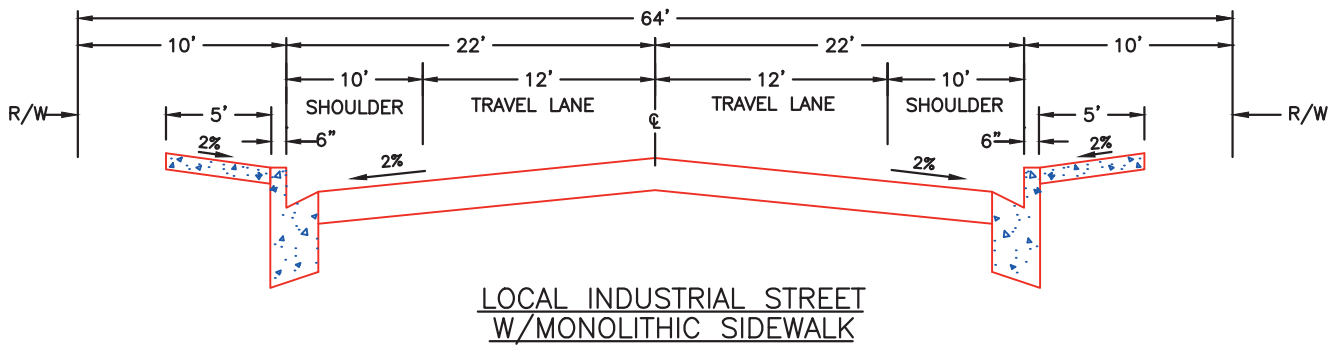
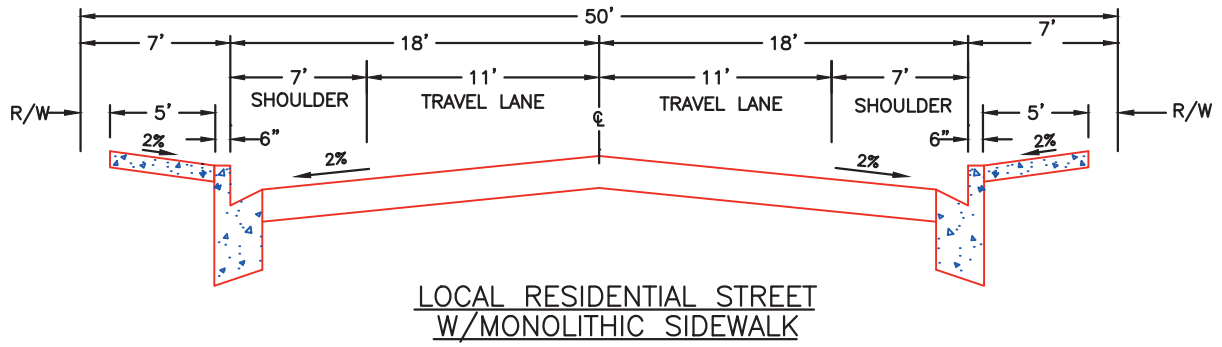
REF. STD. DWG.:  
ST-1

## COLLECTOR & ARTERIAL CROSS-SECTIONS

CITY OF REEDLEY

ST-2





**NOTES:**

1. A MINIMUM CENTER LINE RADIUS OF CURVATURE FOR LOCAL RESIDENTIAL STREETS IS 175 FEET, FOR LOCAL INDUSTRIAL STREET IS 500 FEET, UNLESS OTHERWISE DIRECTED BY THE CITY ENGINEER
2. MAXIMUM BLOCK LENGTH FOR A LOCAL RESIDENTIAL STREET IS 660 FEET.
3. 2" x 6" REDWOOD HEADERBOARDS AND 6" HIGH A.C. DIKE MAY BE REQUIRED WHERE FRACTIONAL PORTION OF STREET IS IMPROVED.
4. STREET STRUCTURAL SECTION SHALL BE BASED ON "R" VALUE TESTS AND STANDARD PLAN ST-1.

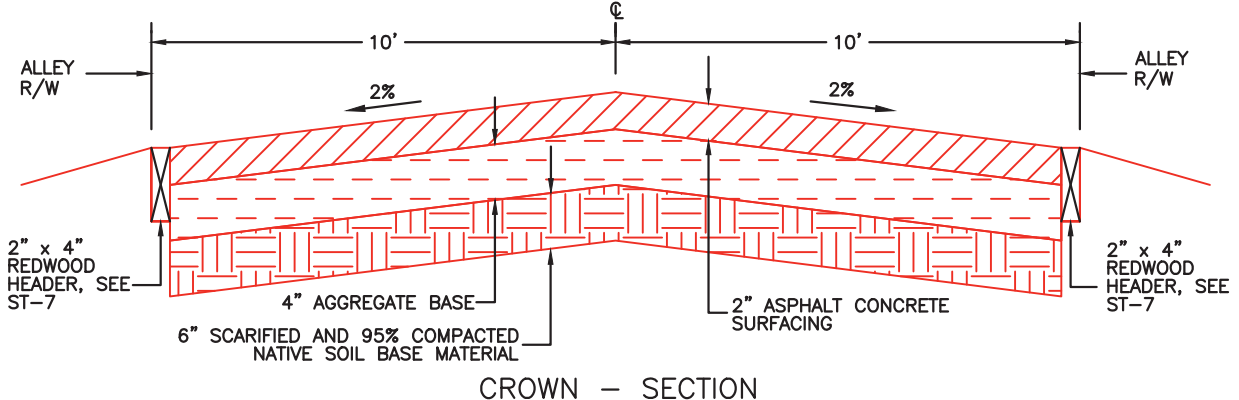
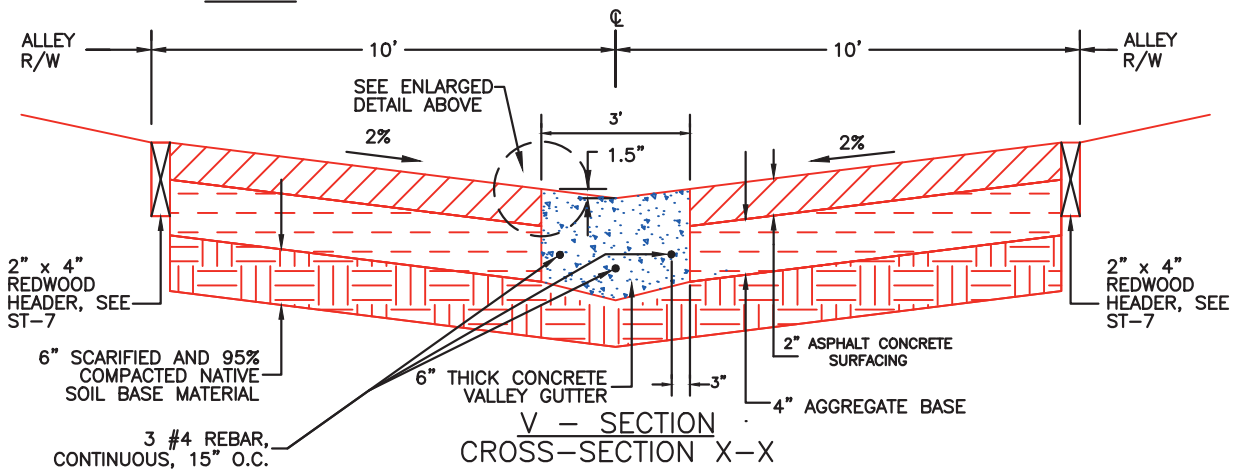
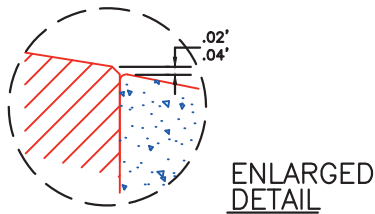
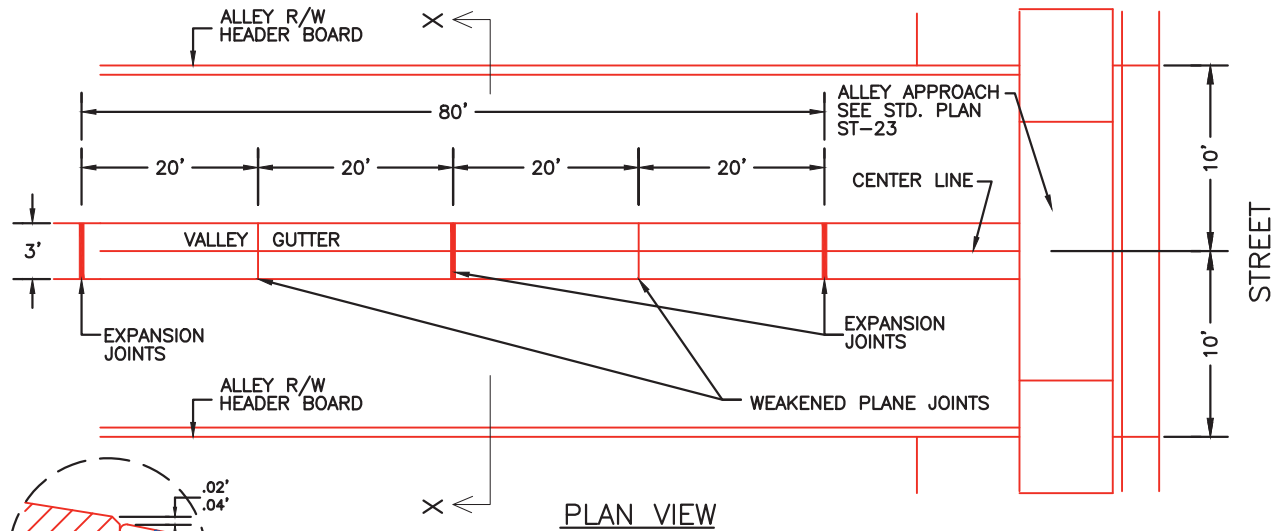


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MAR. 2020  
REF. STD. DWG.:  
ST-1

**LOCAL STREET  
CROSS-SECTIONS**

*CITY OF REEDLEY*

**ST-3**



**NOTES:**

1. ALLEY STRUCTURAL SECTIONS SHOWN ARE MINIMUM, MAY VARY DEPENDING ON "R" VALUE TESTS & STD. PLAN ST-1.
2. CROWN SECTION ALLOWED ONLY WITH SPECIAL APPROVAL FROM THE CITY ENGINEER.
3. ALL CONCRETE USED IN VALLEY GUTTER SHALL BE 4000 PSI.
4. REBAR SHALL HAVE A MINIMUM OF 2" CLEAR COVERAGE.
5. REBAR SHALL BE DEFORMED STEEL BARS AND SHALL BE GRADED 40 MINIMUM, FREE OF RUST OR DIRT AND SHALL BE THOROUGHLY CLEANED BEFORE PLACEMENT.

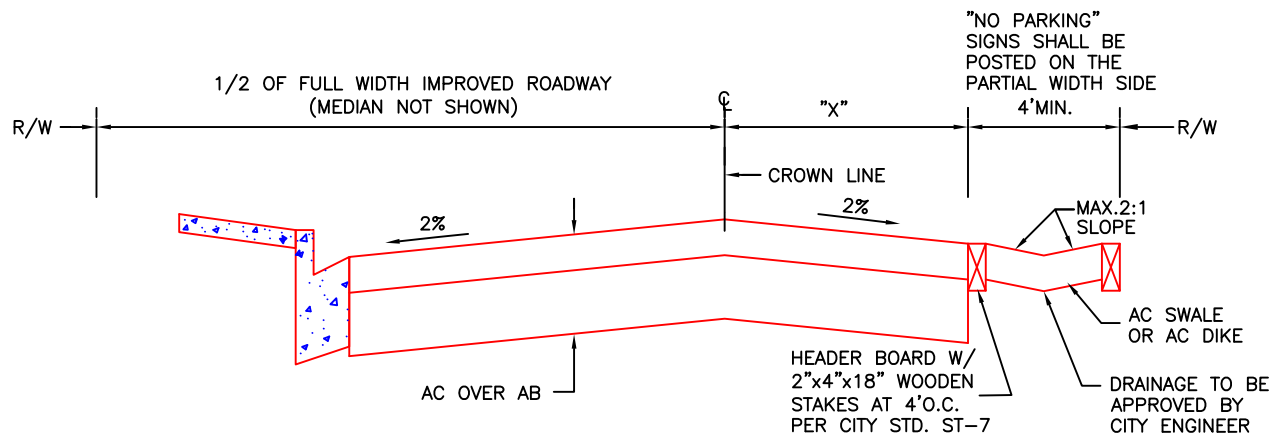


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REVISED:  
MAR. 2020  
REF. STD. DWG.:  
ST-1 & 23

## ALLEY CROSS SECTIONS & PLAN

CITY OF REEDLEY

ST-4



SECTION VIEW

STREET	"X"
LOCAL	11.5'
COLLECTOR	14'
ARTERIAL	16'

NOTES:

1. THE PARTIAL WIDTH STREET IS ONLY PERMITTED ON A FRONTAGE WHERE THE DEVELOPER DOES NOT HAVE OWNERSHIP OR CONTROL OF THE RIGHT-OF-WAY FOR A FULL WIDTH STREET IMPROVEMENT.
2. SHOULDER PAVEMENT TREATMENT PM10 AS REQUIRED PER SJVAPCD, RULE 8061.
3. STREET STRUCTURAL SECTION SHALL BE BASED ON "R" VALUE TESTS AND STANDARD PLAN ST-1.

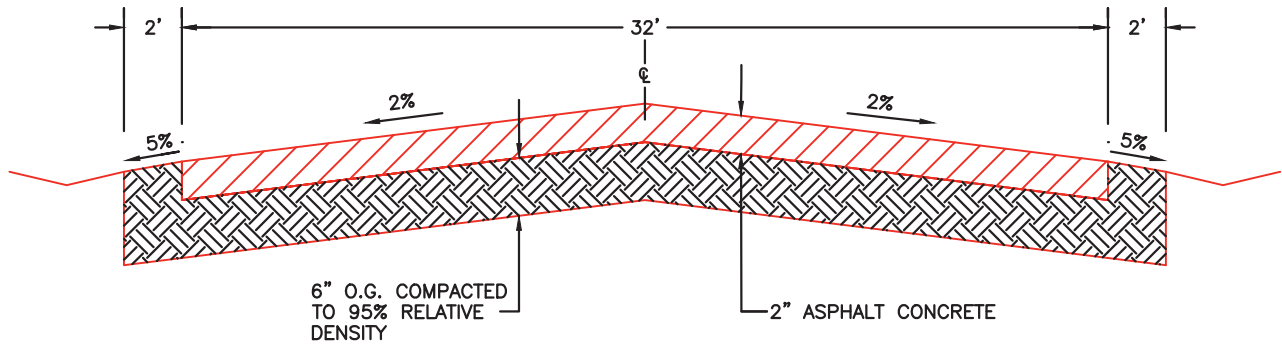


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MAR. 2020  
REF. STD. DWG.:  
ST-1 & 7

**PARTIAL WIDTH  
STREET**

*CITY OF REEDLEY*

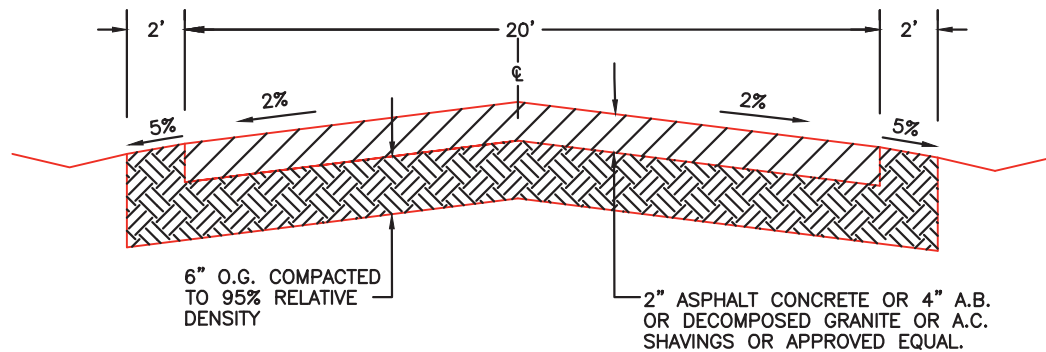
**ST-5**



**NOTES:**

1. AS REQUIRED BY THE CITY ENGINEER FOR CIRCULATION.
2. PAVEMENT SECTION MAY BE REQUIRED TO BE FULL DEPTH DESIGNED SECTION IF IN ALIGNMENT WITH A FUTURE STREET.
3. A SECONDARY ACCESS EASEMENT OR STREET RIGHT-OF-WAY DEDICATION IS REQUIRED.
4. SHOULDER PAVEMENT TREATMENT PM10 AS REQUIRED PER SJVAPCD RULE 8061.

**SECONDARY ACCESS ROAD**



**NOTES:**

1. AS REQUIRED BY THE CITY OF REEDLEY FIRE DEPARTMENT & CITY ENGINEER FOR SECONDARY ACCESSSES.
2. FOR EMERGENCY ACCESS, BARRICADES MAY BE REQUIRED TO RESTRICT ACCESS PER CITY STD PLAN ST-79.
3. AN EMERGENCY/MAINTENANCE ACCESS EASEMENT DEDICATION IS REQUIRED.

**MAINTENANCE & EMERGENCY ACCESS ROAD**



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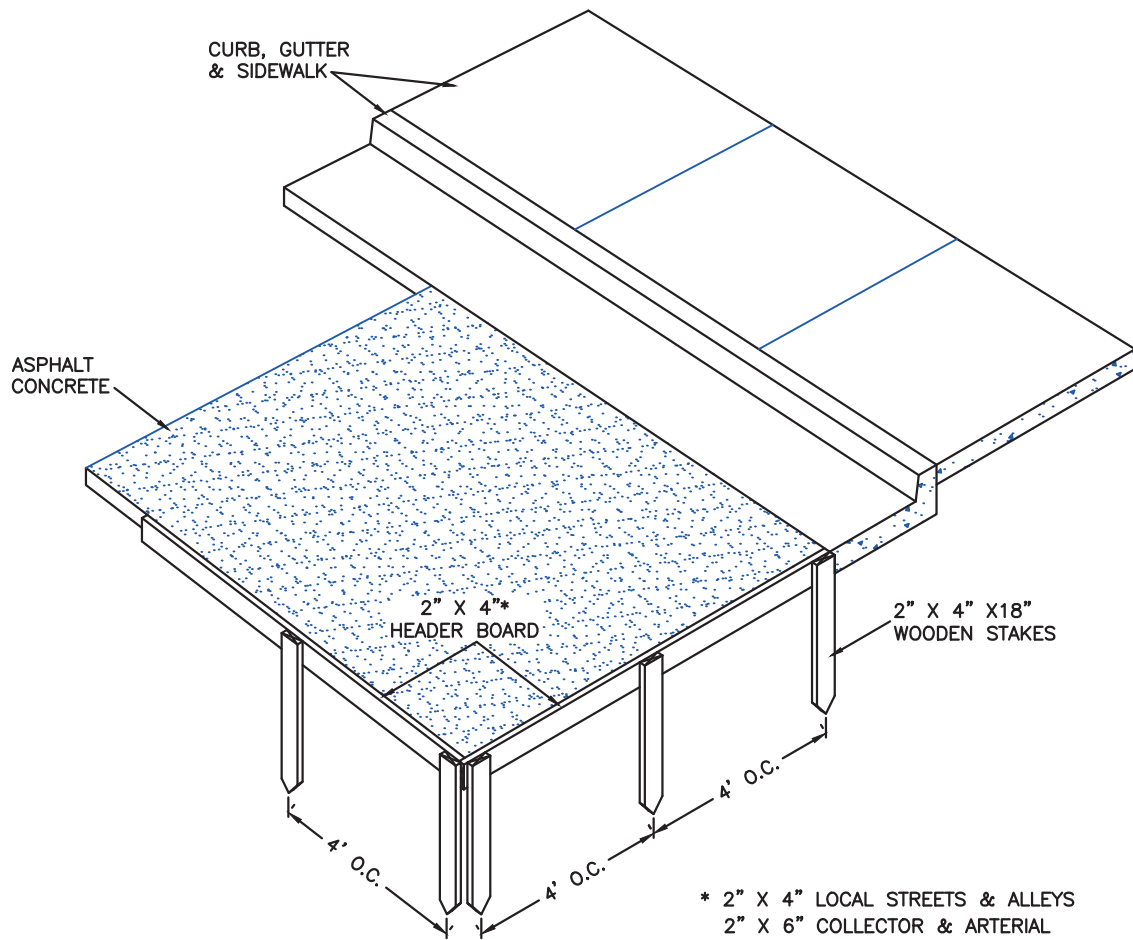
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MAR. 2020

REF. STD. DWG.:  
ST-79

**SECONDARY &  
EMERGENCY  
MAINTENANCE ACCESS  
ROADS**

*CITY OF REEDLEY*

**ST-6**



**NOTES:**

1. HEADER BOARD TO BE INSTALLED AT EDGES OF PAVEMENT EXCEPT WHERE JOINING EXISTING PAVEMENT.
2. HEADER BOARD TO BE INSTALLED TO FINISHED GRADE PRIOR TO PAVING.
3. BACKFILL BEHIND HEADER BOARD PRIOR TO STREET CONSTRUCTION.
4. HEADER BOARD SHALL BE REDWOOD OR PRESSURE-TREATED DOUGLAS FIR.
5. 2" X 4" X 18" STAKES SHALL BE REDWOOD OR PRESSURE-TREATED DOUGLAS FIR.



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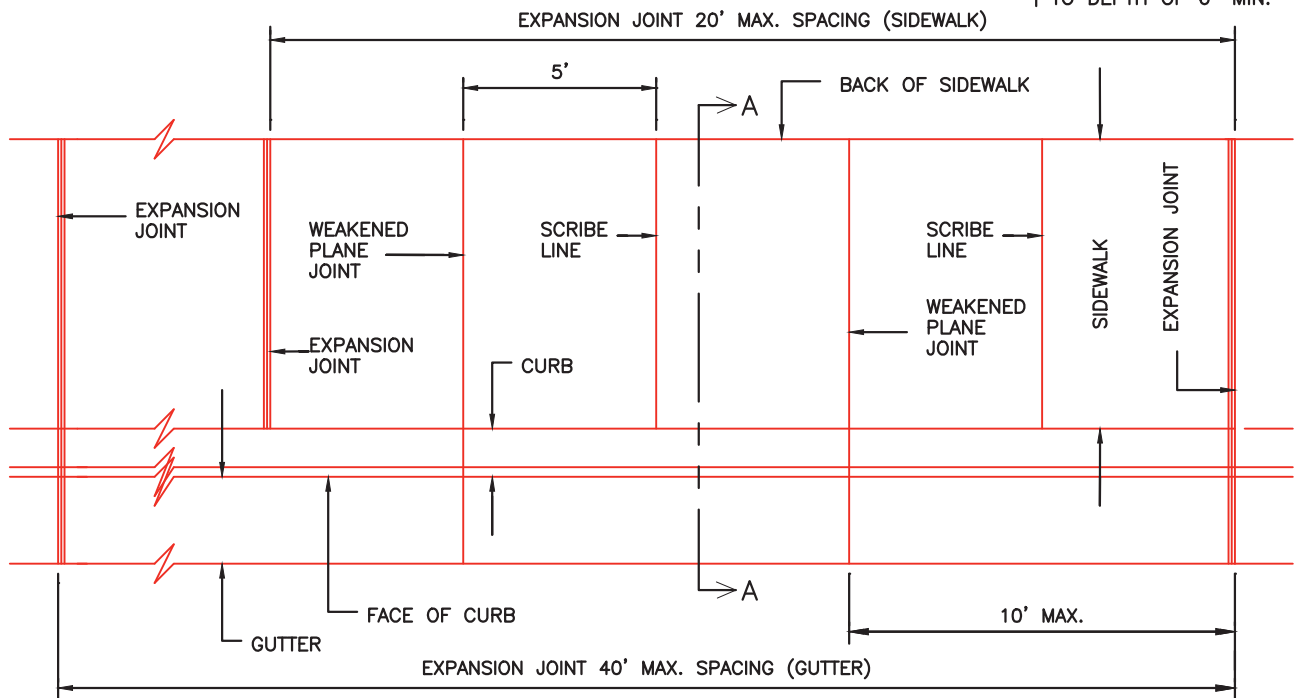
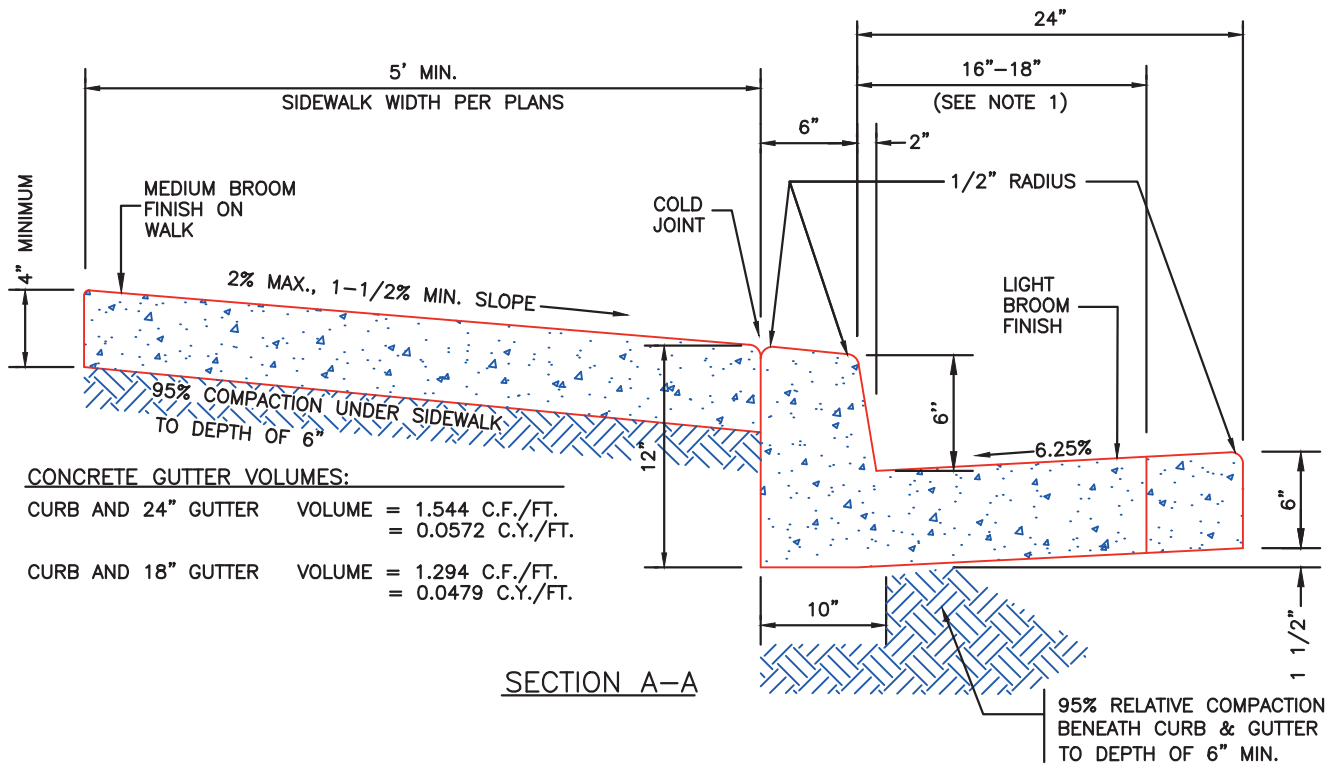
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MAR. 2020

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N/A

## STREET HEADER BOARD

*CITY OF REEDLEY*

**ST-7**



**NOTES:**

1. 16-18" GUTTER TO BE INSTALLED WHERE SIMILAR EXISTS OR AS DIRECTED BY THE CITY ENGINEER.
2. THE MAXIMUM SPACING FOR EXPANSION JOINTS FOR CURB AND GUTTER IS 40 FT.
3. WEAKENED PLANE JOINTS SHALL BE PLACED AT A SPACING OF 10 FT. FOR CURB, GUTTER & SIDEWALK.
4. THE MAXIMUM SPACING FOR EXPANSION JOINTS IN SIDEWALK IS 20 FT.
5. ALL CONCRETE USED IN SIDEWALK, CURB & GUTTER SHALL BE 4000 PSI.
6. GUTTER FLOW SLOPE 0.2% MIN.
7. SIDEWALK WIDTH: RESIDENTIAL = 5', INDUSTRIAL = 5' AND COMMERCIAL = 9'-6".
8. STAMP CURB FACE AT SEWER & WATER LATERAL HOUSE BRANCH LOCATIONS PER CITY SPECIFICATIONS.



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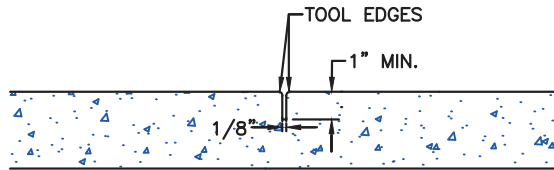
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MAR. 2020

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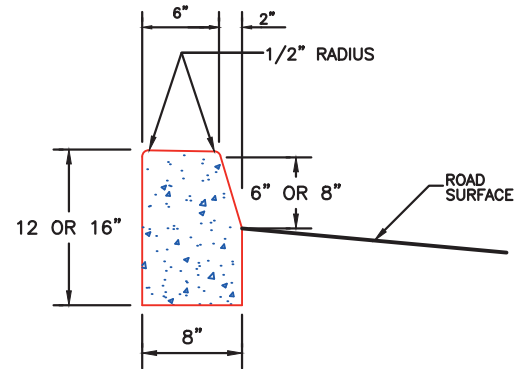
**CURB, GUTTER  
AND  
SIDEWALK**

**CITY OF REEDLEY**

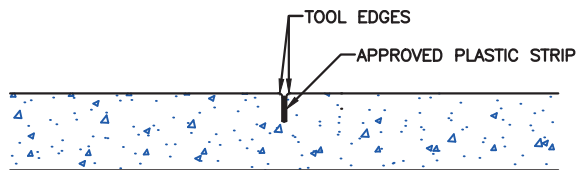
**ST-8**



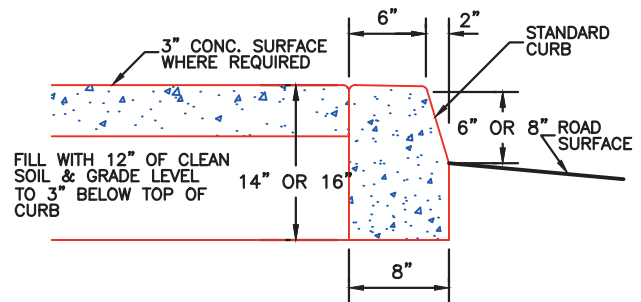
WEAKENED PLANE JOINT



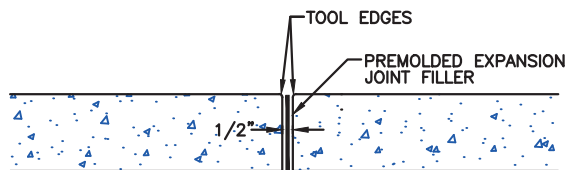
CROSS-SECTION OF CURB



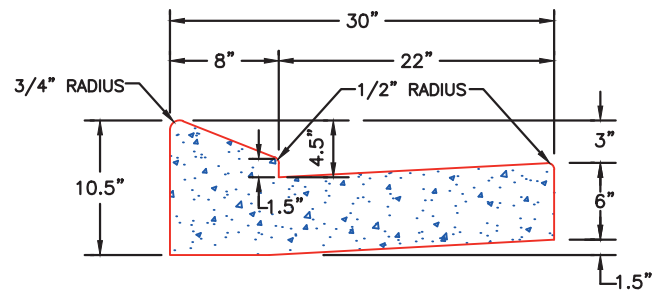
ALTERNATE DESIGN WEAKENED PLANE JOINT



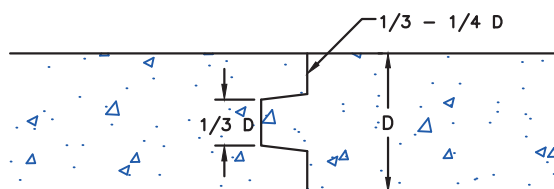
MEDIAN ISLAND CURB



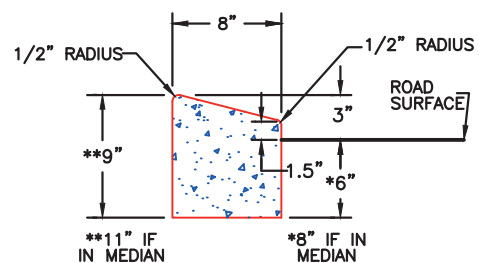
EXPANSION JOINT



WEDGE CURB AND GUTTER



CONSTRUCTION JOINT



MOUNTABLE CURB

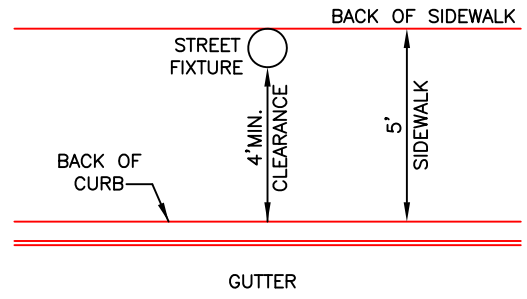
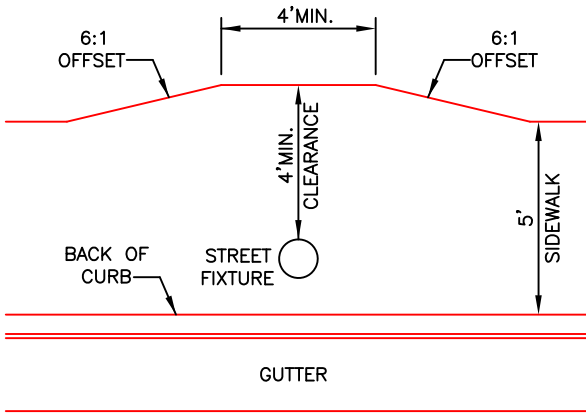


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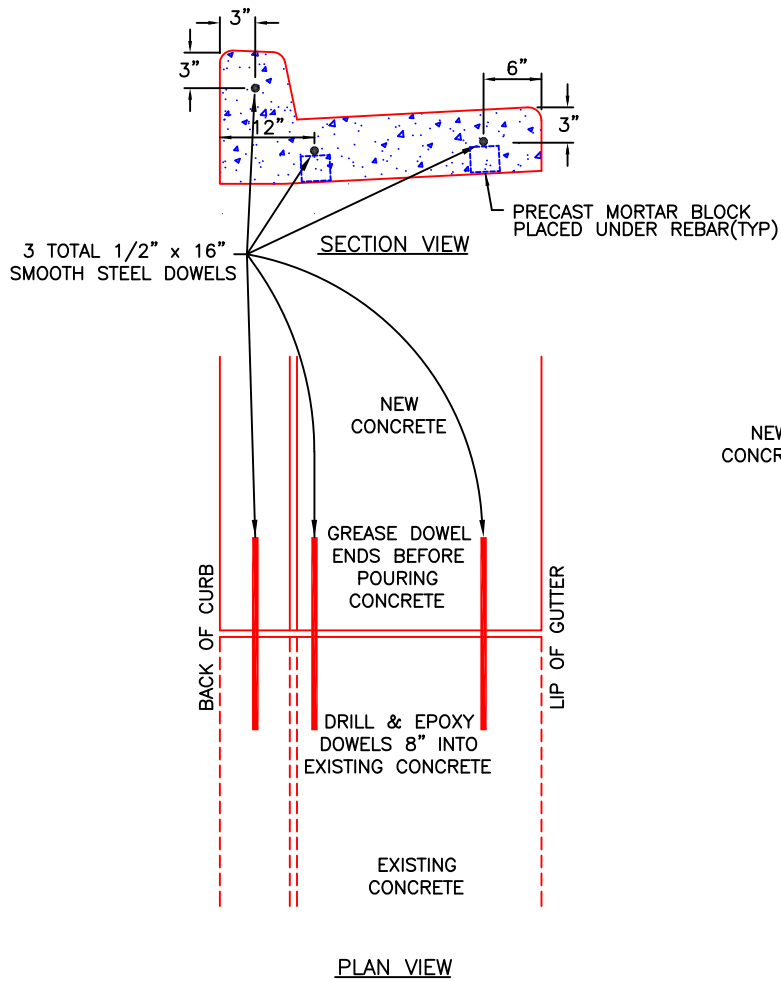
## CONCRETE CONSTRUCTION DETAILS

*CITY OF REEDLEY*

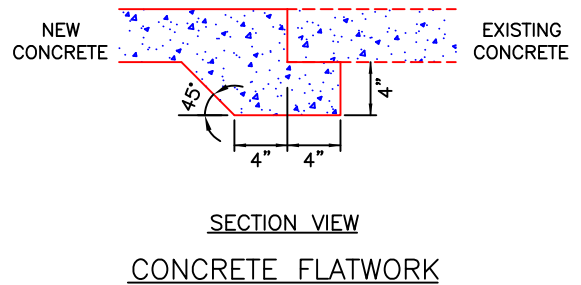
**ST-10**



SIDEWALK PLAN WITH OBSTRUCTION/STREET FIXTURE



CONCRETE CURB & GUTTER



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REVISED:  
MAR. 2020

REF. STD. DWG.:

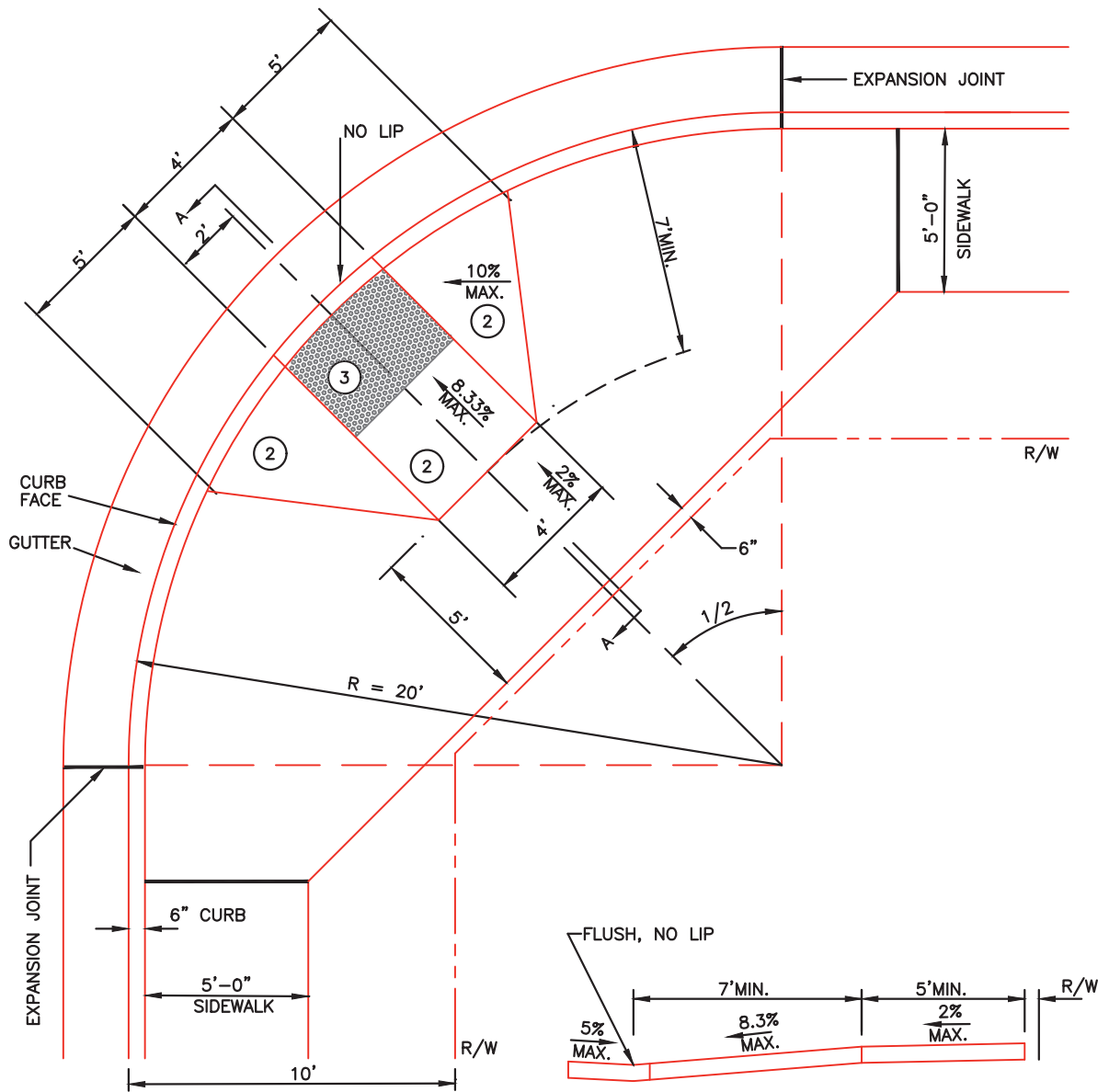
# SIDEWALK OBSTRUCTIONS AND CONCRETE COLD JOINTS

*CITY OF REEDLEY*

**ST-11**







SECTION A-A

**NOTES:**

1. CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING ALL CURRENT ADA GUIDELINES.
2. MEDIUM BROOM-FINISH WITHIN RAMP AREA.
3. DETECTABLE WARNING SURFACE REQUIRED FULL WIDTH & 3' DEPTH OF RAMP PER ST-17.
4. RAMP THICKNESS SHALL BE 6".
5. GUTTER PAN TO BE FLATTENED TO 5% IN FRONT OF RAMP.
6. CONCRETE SHALL BE 4000 PSI.
7. 6" O.G. COMPACTED TO 95% RELATIVE COMPACTION.
8. MEASUREMENT: RAMP INCLUDES LANDING AREA OUT TO EXPANSION JOINTS-SF, CURB & GUTTER-LF, SIDEWALK-SF
9. INTERSECTIONS INVOLVING RESIDENTIAL STREETS OTHER THAN KNUCKLE CURVES.

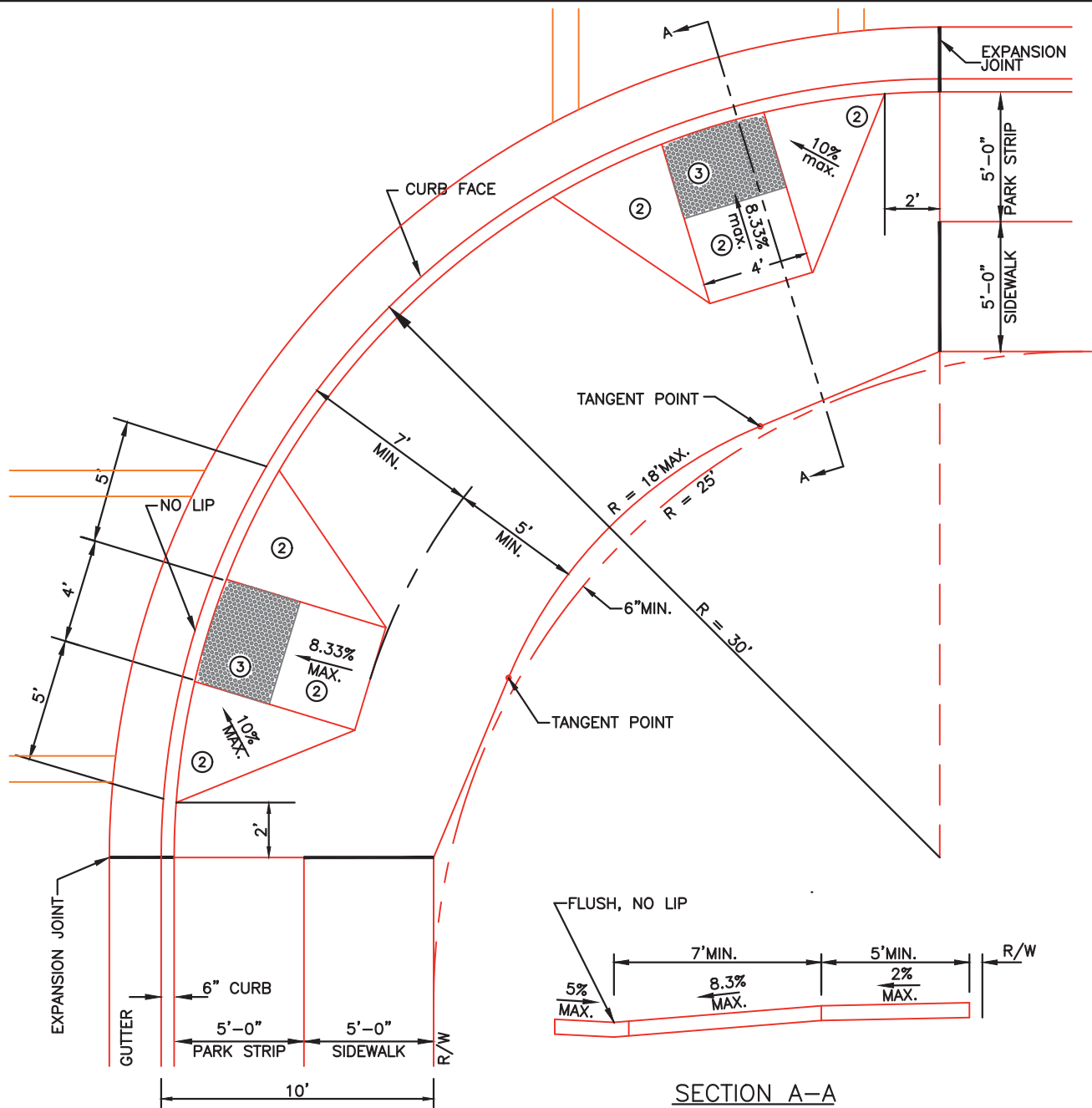


SCALE:  
NOT TO SCALE  
REVISED:  
MAR. 2020  
REF. STD. DWG.:  
ST-17

**20 FT. RADIUS CURB  
RETURN WITH  
ACCESSIBLE RAMP**

*CITY OF REEDLEY*

**ST-13**



**NOTES:**

1. CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING ALL CURRENT ADA GUIDELINES.
2. MEDIUM BROOM-FINISH WITHIN RAMP AREA.
3. DETECTABLE WARNING SURFACE REQUIRED FULL WIDTH & 3' DEPTH OF RAMP PER ST-17.
4. RAMP THICKNESS SHALL BE 6".
5. GUTTER PAN TO BE FLATTENED TO 5% IN FRONT OF RAMP.
6. CONCRETE SHALL BE 4000 PSI.
7. 6" O.G. COMPACTED TO 95% RELATIVE COMPACTION.
8. MEASUREMENT: RAMP INCLUDES LANDING AREA OUT TO EXPANSION JOINTS-SF, CURB & GUTTER-LF, SIDEWALK-SF



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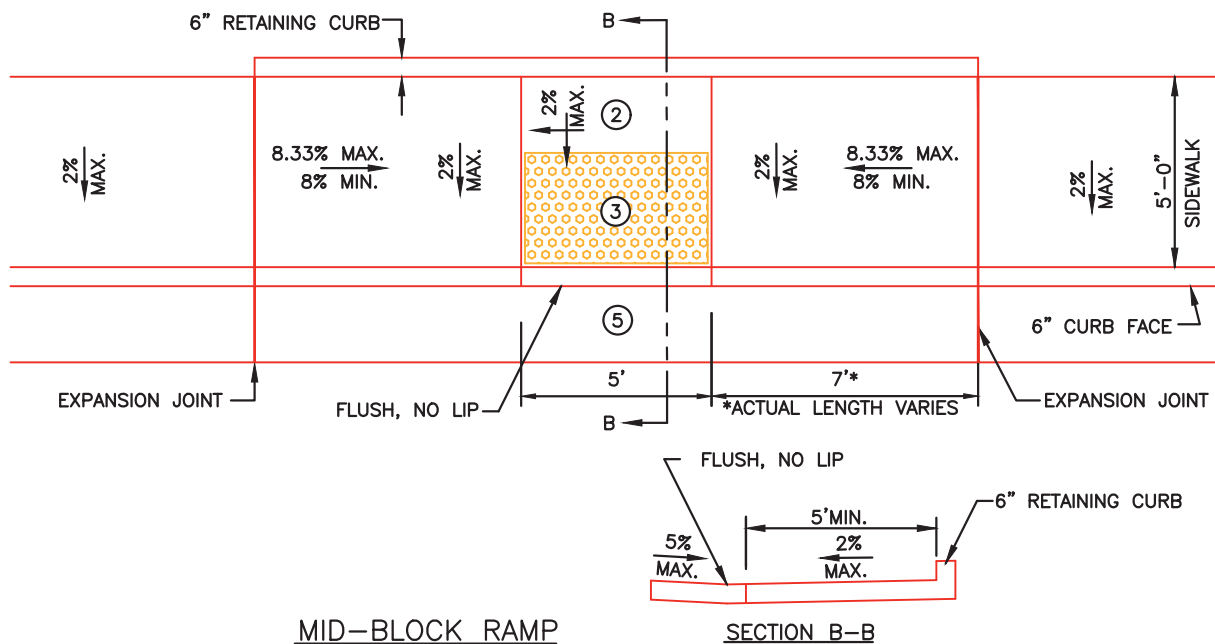
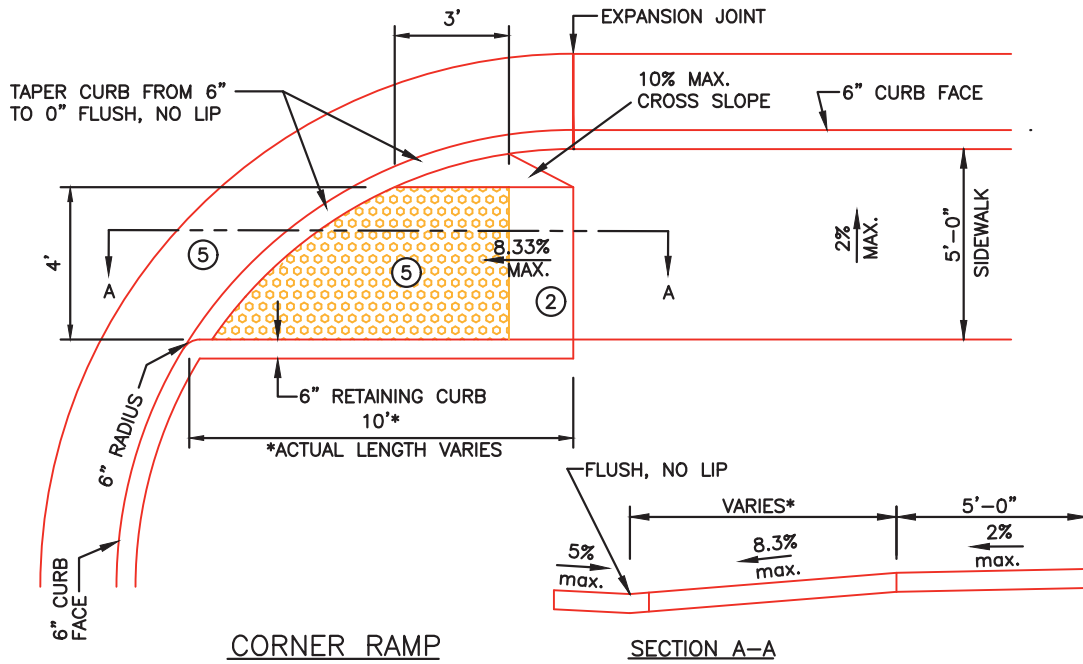
REVISED:  
MAR. 2020

REF. STD. DWG.:  
ST-17

**30 FT. RADIUS CURB  
RETURN WITH  
ACCESSIBLE RAMP**

*CITY OF REEDLEY*

**ST-14**



**NOTES:**

1. CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING ALL CURRENT ADA GUIDELINES.
2. MEDIUM BROOM-FINISH WITHIN RAMP AREA.
3. DETECTABLE WARNING SURFACE REQUIRED FULL WIDTH & 3' DEPTH OF RAMP PER ST-17.
4. RAMP THICKNESS SHALL BE 6".
5. GUTTER PAN TO BE FLATTENED TO 5% IN FRONT OF RAMP.
6. CONCRETE SHALL BE 4000 PSI.
7. 6" O.G. COMPACTED TO 95% RELATIVE COMPACTION.
8. MEASUREMENT: RAMP INCLUDES LANDING AREA OUT TO EXPANSION JOINTS-SF, CURB & GUTTER-LF, SIDEWALK-SF



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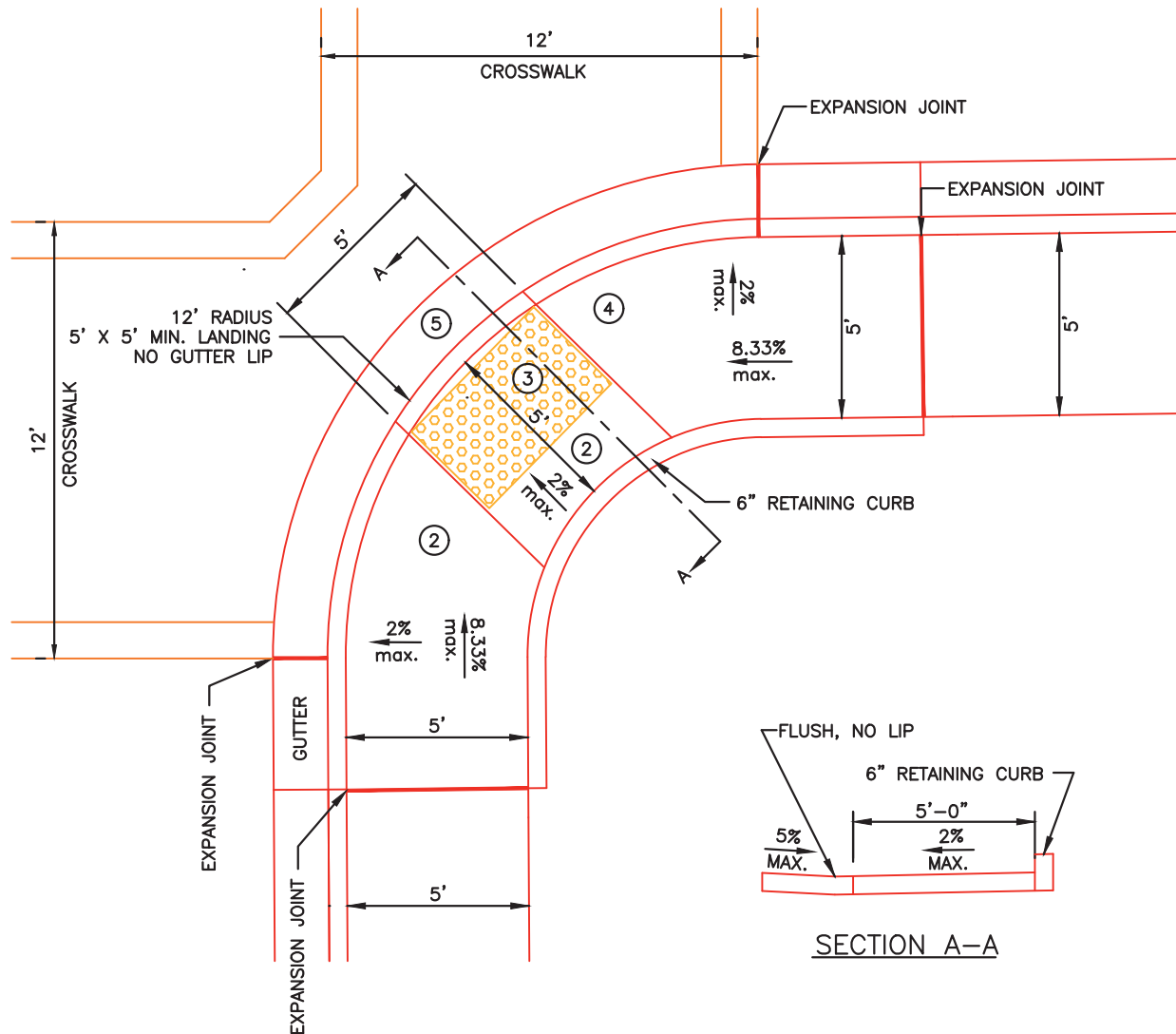
REVISED:  
MAR. 2020

REF. STD. DWG.:  
ST-17

**MODIFIED CURB RAMP  
ONE- WAY CROSSING**

*CITY OF REEDLEY*

**ST-15**



**NOTES:**

1. CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING ALL CURRENT ADA GUIDELINES.
2. MEDIUM BROOM-FINISH WITHIN RAMP AREA.
3. DETECTABLE WARNING SURFACE REQUIRED FULL WIDTH & 3' DEPTH OF RAMP PER ST-17.
4. RAMP THICKNESS SHALL BE 6".
5. GUTTER PAN TO BE FLATTENED TO 5% IN FRONT OF RAMP.
6. CONCRETE SHALL BE 4000 PSI.
7. 6" O.G. COMPACTED TO 95% RELATIVE COMPACTION.
8. MEASUREMENT: RAMP INCLUDES LANDING AREA OUT TO EXPANSION JOINTS-SF, CURB & GUTTER-LF, SIDEWALK-SF

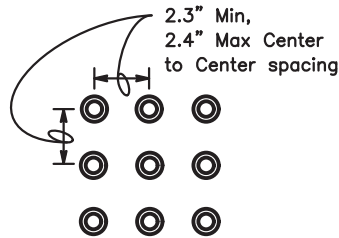


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REVISED:  
MAR. 2020  
REF. STD. DWG.:  
ST-17

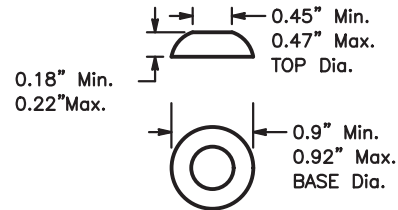
**MODIFIED CURB RAMP  
TWO- WAY CROSSING**

*CITY OF REEDLEY*

**ST-16**



RAISED TRUNCATED  
DOME PATTERN (IN-LINE)



RAISED TRUNCATED DOME

NOTES:

- 1) THE DETECTABLE WARNING SHALL VISUALLY CONTRAST PER THE 2013 CALIFORNIA BUILDING CODE. THE MATERIAL USED SHALL BE AN INTEGRAL PART OF THE WALKING SURFACE. THE COLOR SHALL BE YELLOW.
- 2) THE DOMES MAY BE CONSTRUCTED IN A VARIETY OF METHODS, INCLUDING CAST-IN-PLACE OR STAMPED OR IT MAY BE PART OF A PREFABRICATED SURFACE TREATMENT.
- 3) ONLY APPROVED DSA/AC DETECTABLE WARNING PRODUCTS AND DIRECTIONAL SURFACES SHALL BE INSTALLED AS PROVIDED IN THE CALIFORNIA CODE OF REGULATIONS (CCR), TITLE 24, PART 1, ARTICLES 2, 3 AND 4. REFER TO CCR TITLE 24, PART 12, CHAPTER 12-11A AND B FOR BUILDING FACILITY ACCESS SPECIFICATIONS FOR PRODUCT APPROVAL FOR DETECTABLE WARNING PRODUCTS AND DIRECTIONAL SURFACES.
- 4) DETECTABLE WARNING PRODUCTS AND DETECTABLE SURFACES SHALL BE EVALUATED BY AN INDEPENDENT ENTITY, SELECTED BY THE DEPARTMENT OF GENERAL SERVICES, DIVISION OF THE STATE ARCHITECT-ACCESS COMPLIANCE FOR ALL OCCUPANCIES, INCLUDING TRANSPORTATION AND OTHER OUTDOOR ENVIRONMENTS. SEE GOVERNMENT CODE SECTION 4460.
- 5) CURB RAMPS SHALL HAVE A DETECTABLE WARNING SURFACE THAT EXTENDS THE FULL WIDTH AND 3'-0" DEPTH OF THE RAMP.

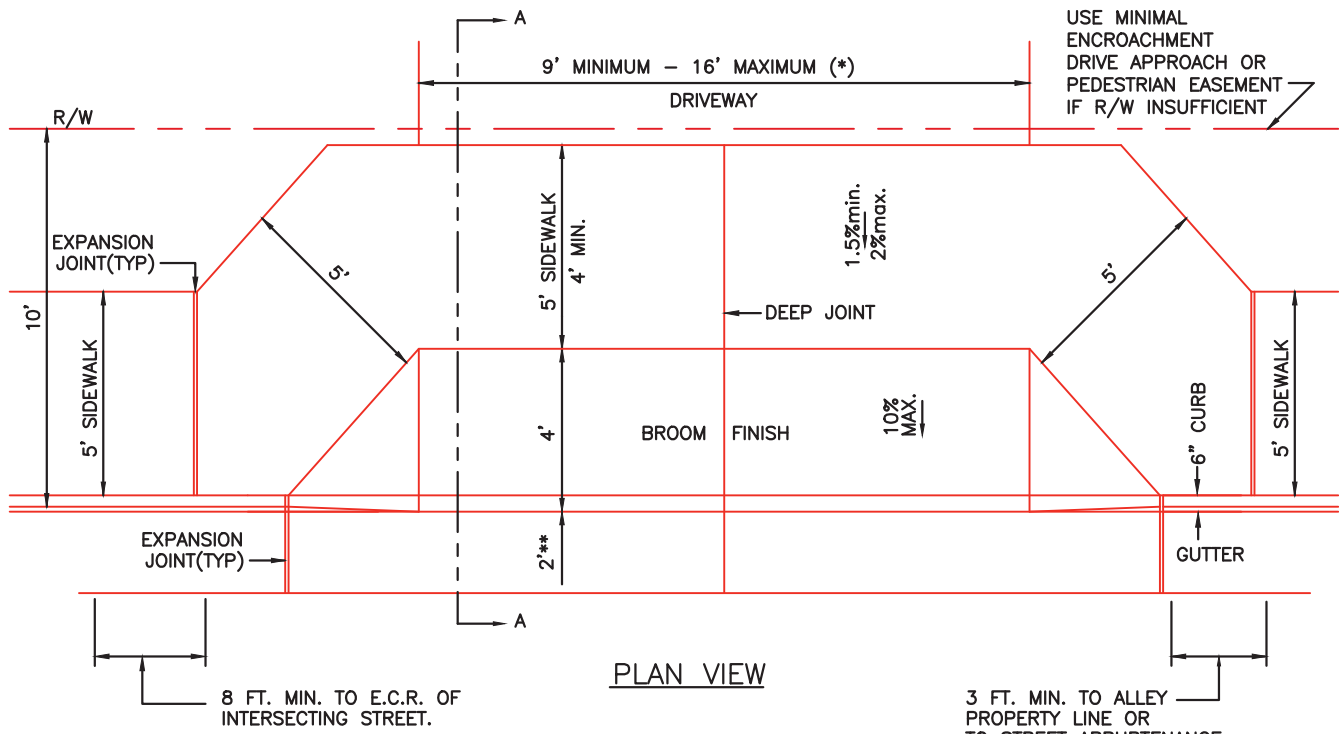


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**DETECTABLE WARNING  
SURFACE**

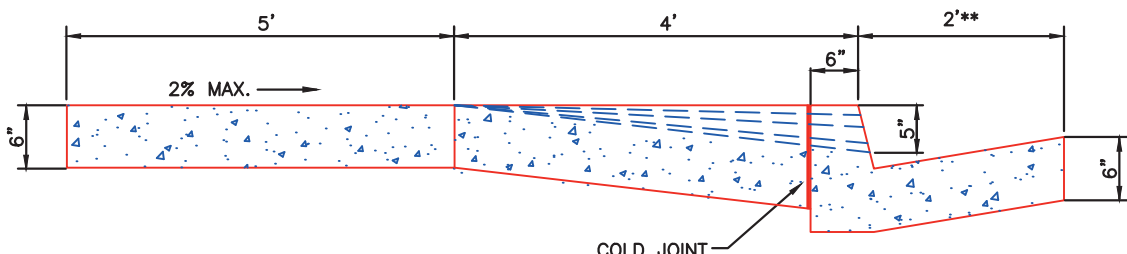
*CITY OF REEDLEY*

**ST-17**

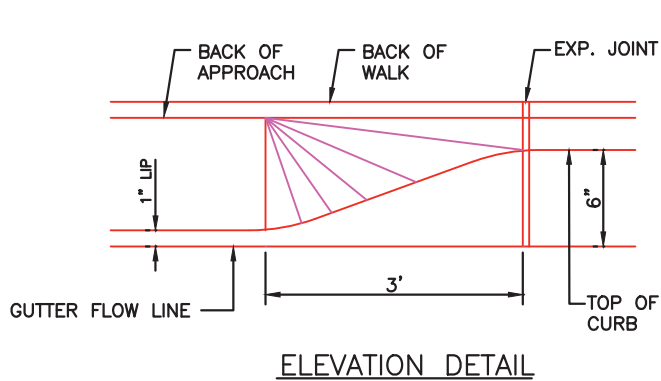


\* WIDTHS ARE FOR DRIVEWAY THROAT OPENING  
THROAT OPENING FOR 3 OR MORE CAR GARAGE REQUIRES APPROVAL FROM CITY ENGINEER

\*\* GUTTER WIDTH PER CONSTRUCTION PLANS OR ON-SITE CONDITIONS IF NOT 2'.

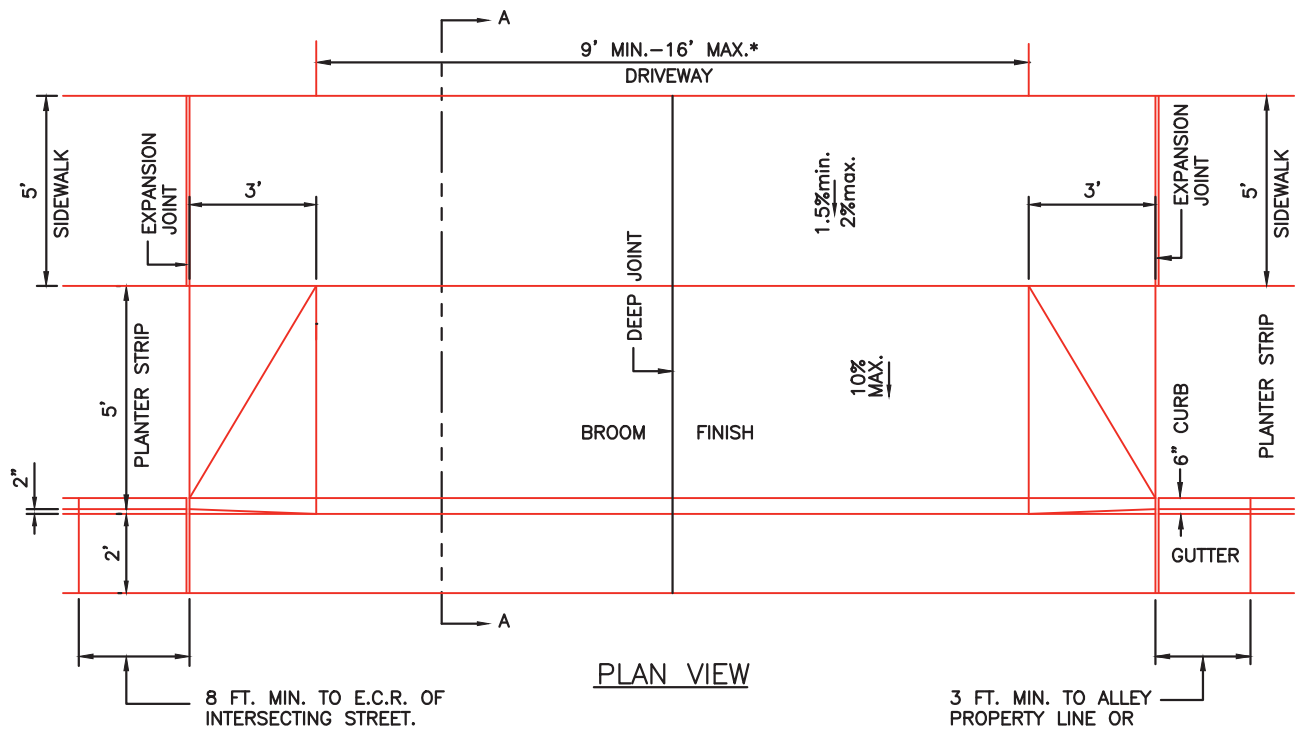


SECTION A-A



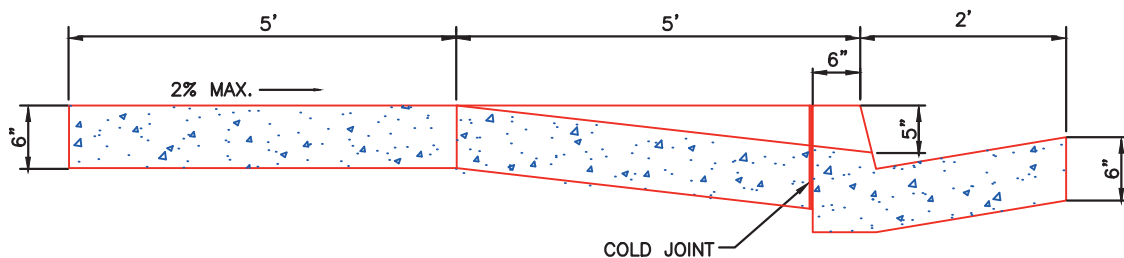
NOTES:

1. MUST REMOVE ENTIRE CURB AND GUTTER WHEN RECONSTRUCTION IS REQUIRED.
2. NOT MORE THAN 60% OF LOT FRONTAGE MEASURED AT STREET SIDE (TOP OF CURB BETWEEN LOT LINES EXTENDED) MAY BE USED FOR DRIVEWAY OPENING.
3. ALL MULTIPLE RESIDENTIAL PROPERTIES TO HAVE ON-SITE REFUSE PICKUP SHALL INSTALL COMMERCIAL DRIVEWAY APPROACHES PER CITY OF REEDLEY STD. PLAN ST-21.
4. CONCRETE FOR DRIVEWAY APPROACH SHALL BE CLASS A, 4000 PSI 6\"/>

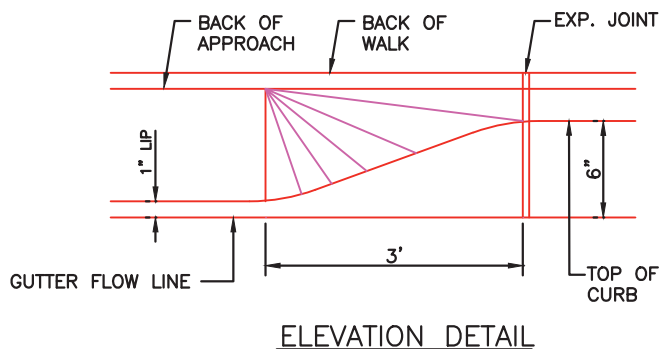


\* WIDTHS ARE FOR DRIVEWAY THROAT OPENING.  
THROAT OPENING FOR 3 OR MORE CAR GARAGE REQUIRES  
APPROVAL FROM CITY ENGINEER.

3 FT. MIN. TO ALLEY  
PROPERTY LINE OR  
TO STREET APPURTENANCE



SECTION A-A



#### NOTES:

1. MUST REMOVE ENTIRE CURB AND GUTTER WHEN RECONSTRUCTION IS REQUIRED.
2. NOT MORE THAN 60% OF LOT FRONTAGE MEASURED AT STREET SIDE (TOP OF CURB BETWEEN LOT LINES EXTENDED) MAY BE USED FOR DRIVEWAY OPENING.
3. ALL MULTIPLE RESIDENTIAL PROPERTIES TO HAVE ON-SITE REFUSE PICKUP SHALL INSTALL COMMERCIAL DRIVEWAY APPROACHES PER CITY OF REEDLEY STD. PLAN ST-21.
4. CONCRETE FOR DRIVEWAY APPROACH SHALL BE CLASS A, 4000 PSI 6" THICK MIN.
5. DEEP JOINT REQUIRED IN CENTER OF DRIVE APPROACH.
6. APPROACH, CURB AND GUTTER SUBGRADE COMPACTED TO 95% A MINIMUM OF 6".
7. BROOM SWEEP FINISH ON DRIVEWAY APPROACH.
8. E.C.R. = END OF CURB RETURN.
9. MEASUREMENT: DRIVE APPROACH FROM BACK OF CURB TO BACK OF WALK, WING TO WING-SF, CURB & GUTTER-LF.



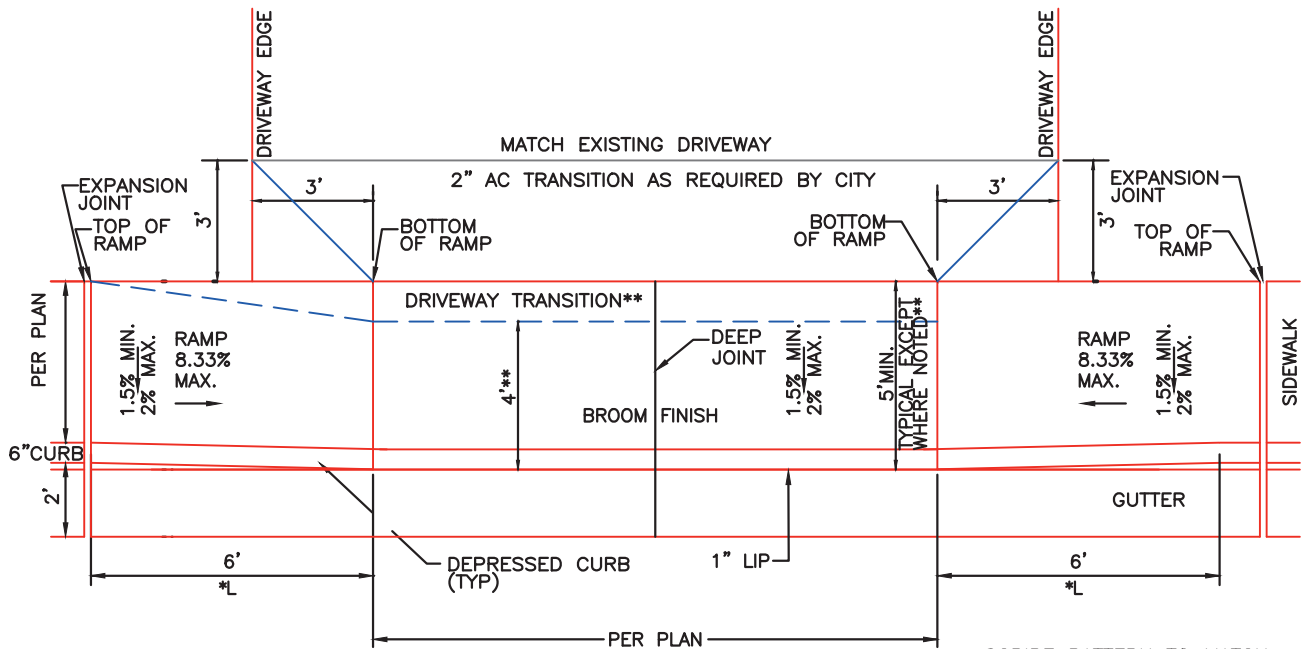
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REVISED:  
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REF. STD. DWG.:  
ST-21

## RESIDENTIAL DRIVEWAY APPROACH WITH PLANTER STRIP

CITY OF REEDLEY

ST-19



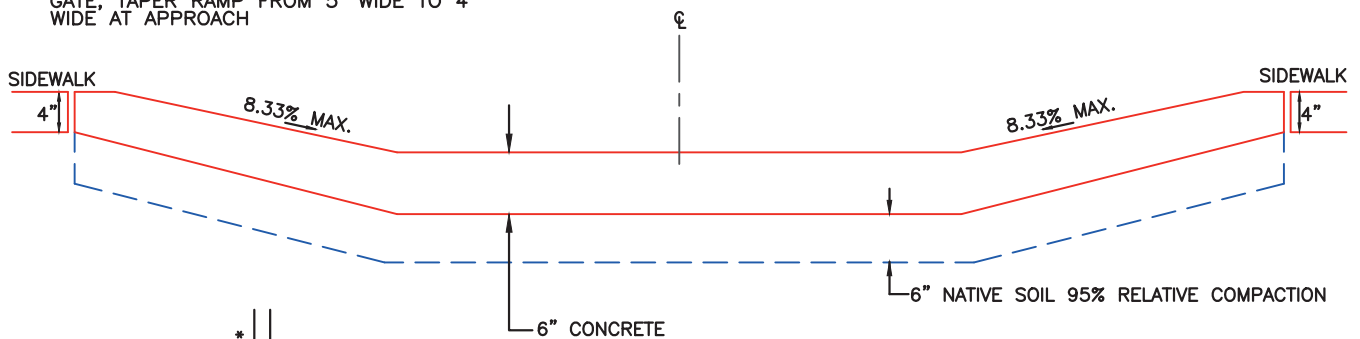


\*L SHALL BE ADJUSTED BASED ON THE HEIGHT OF THE MATCHING CURB FACE.  
RAMP NOT TO EXCEED 8.33% SLOPE (1:12).

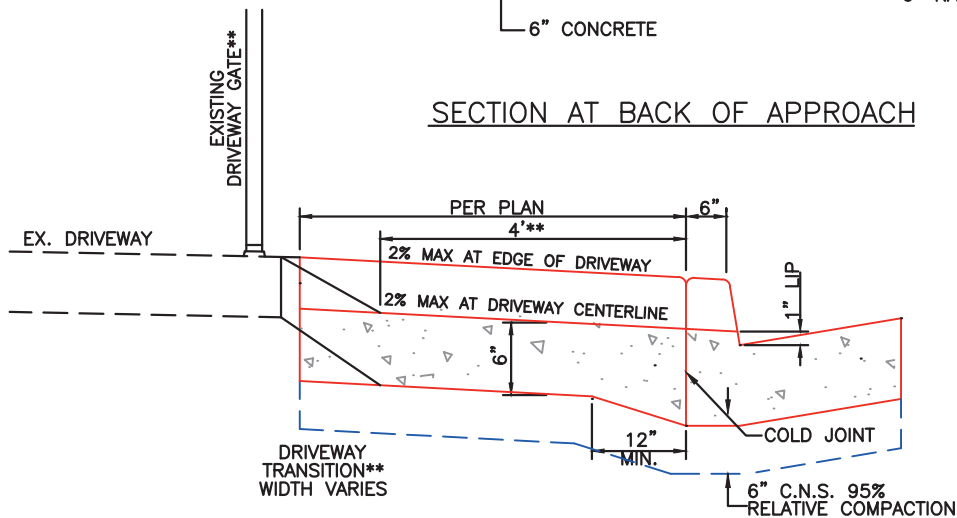
\*\*IN LOCATIONS WHERE THERE IS A SLIDING GATE, TAPER RAMP FROM 5' WIDE TO 4' WIDE AT APPROACH

PLAN VIEW

SCRIBE PATTERN TO MATCH SIDEWALK PATTERN.



SECTION AT BACK OF APPROACH



CROSS SECTION

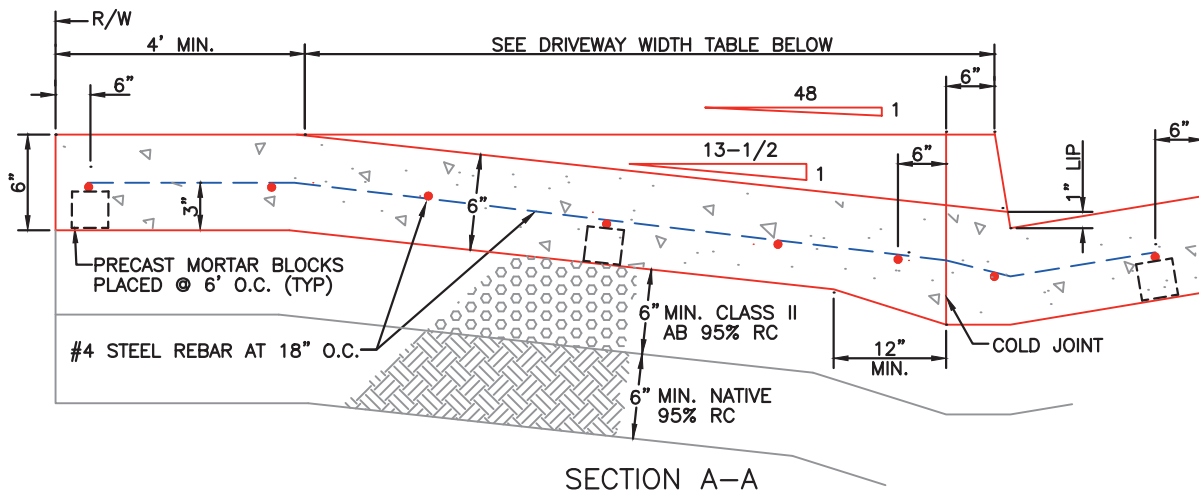
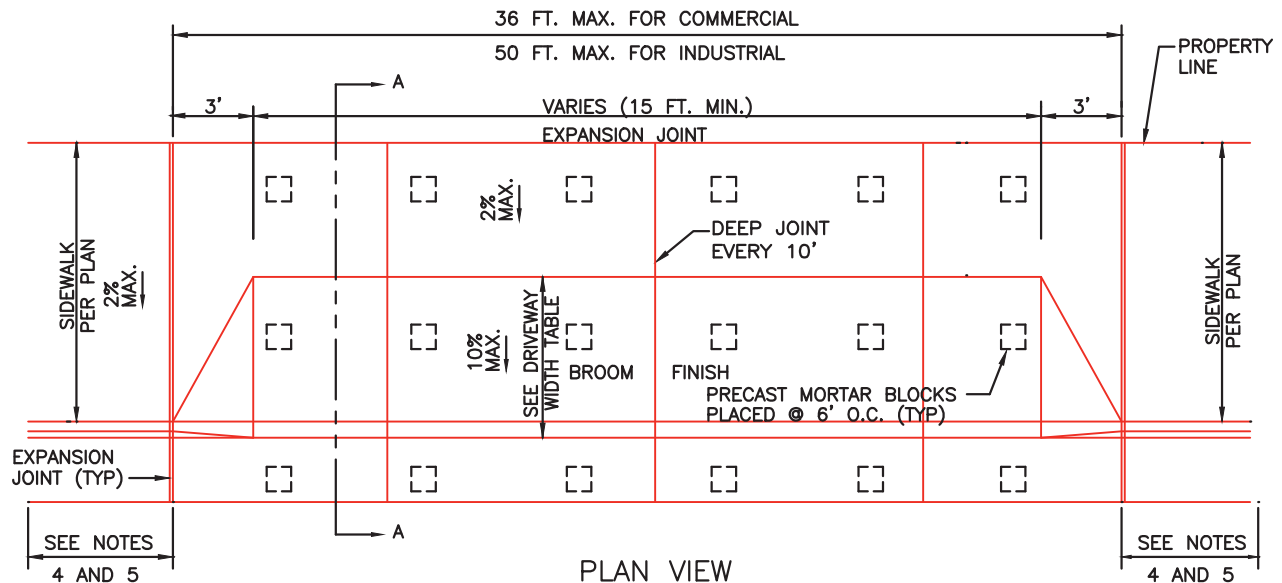


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MAR. 2020  
REF. STD. DWG.:

# MINIMAL ENCROACHMENT RESIDENTIAL DRIVE APPROACH

*CITY OF REEDLEY*

**ST-20**

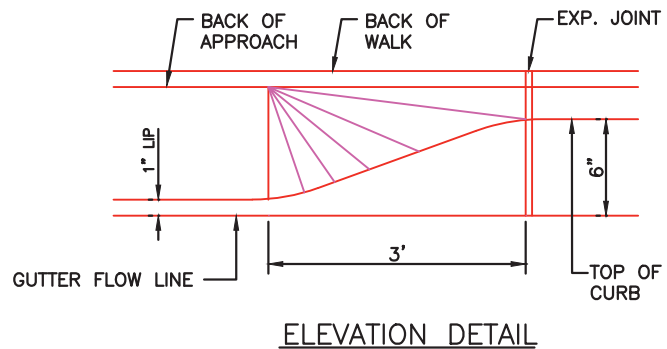


#### NOTES:

1. 95% RC (RELATIVE COMPACTION) BENEATH DRIVEWAY TO DEPTH OF 6".
2. CONCRETE FOR DRIVEWAY APPROACH SHALL BE CLASS "A" 4000 PSI, 5" MAX. SLUMP.
3. NOT OVER 60% OF FRONTAGE MEASURED AT STREET SIDE TOP OF CURB BETWEEN LOT LINES EXTENDED SHALL BE DEVOTED TO DRIVEWAY APPROACHES.
4. MINIMUM DISTANCE BETWEEN DRIVEWAYS EQUALS WIDTH OF LARGEST DRIVEWAY.
5. MINIMUM DISTANCE TO ALLEY OR NON-STREET PROPERTY SHALL BE 3 FT & TO END OF CURB RETURN SHALL BE 10 FT.
6. REINFORCING BARS SHALL BE DEFORMED STEEL BARS, GRADE 40 MIN. & BE FREE FROM RUST OR DIRT & SHALL BE THOROUGHLY CLEANED BEFORE PLACEMENT - SHOWN BELOW.
7. MAINTAIN 6" CLEARANCE BETWEEN ALL JOINTS AND ENDS OF STEEL REINFORCING.
8. ALL MULTI-FAMILY RESIDENTIAL PROPERTIES TO HAVE ON-SITE REFUSE PICKUP SHALL INSTALL COMMERCIAL DRIVEWAY APPROACHES PER THIS CITY OF REEDLEY STD. PLAN.
9. COLLECTOR & ARTERIAL STREETS MINIMUM WIDTH OF THROAT SHALL BE 21' FOR 1-WAY APPROACH & 36' FOR 2-WAY APPROACH.

#### DRIVEWAY WIDTH TABLE

MULTIPLE RESIDENTIAL	5'-0"
INDUSTRIAL	5'-0"
COMMERCIAL	6'-0"



SCALE:  
NOT TO SCALE

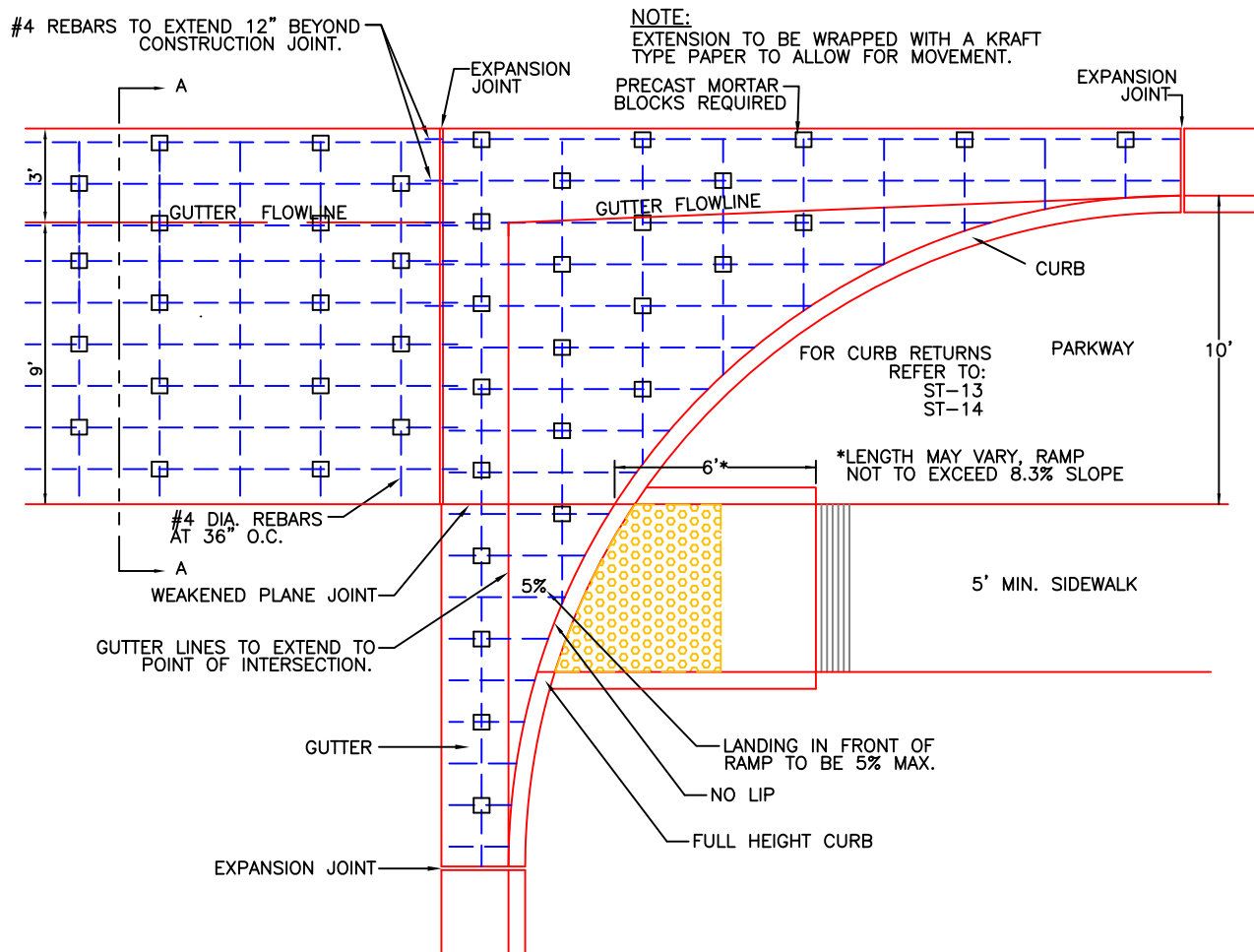
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MAR. 2020

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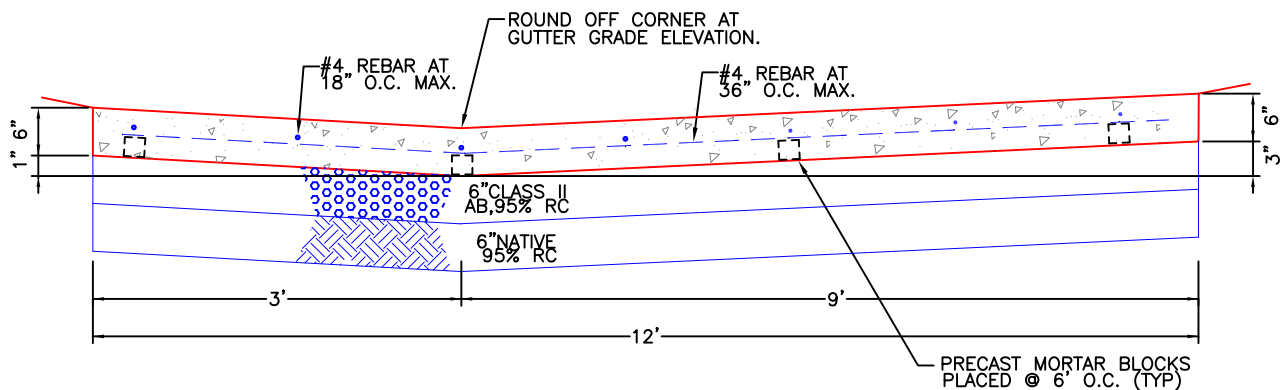
## COMMERCIAL/INDUSTRIAL DRIVEWAY APPROACH

CITY OF REEDLEY

ST-21



PLAN VIEW



SECTION A-A

**NOTES:**

1. MUST REPLACE EX. CURB & GUTTER WHEN RECONSTRUCTION IS REQUIRED.
2. CONCRETE SHALL BE CLASS 'A' 4000 PSI, MAX. 5" SLUMP.
3. STEEL REINFORCEMENT TO BE FREE OF RUST & PLACED AS SHOWN.
4. AB & NATIVE SUBGRADE TO BE COMPACTED TO A MIN. OF 95%. COMPACTION TESTS REQUIRED.
5. BROOM FINISH.
6. DETECTABLE WARNING SURFACE REQUIRED FULL WIDTH & 3' DEPTH OF RAMP.



SCALE:  
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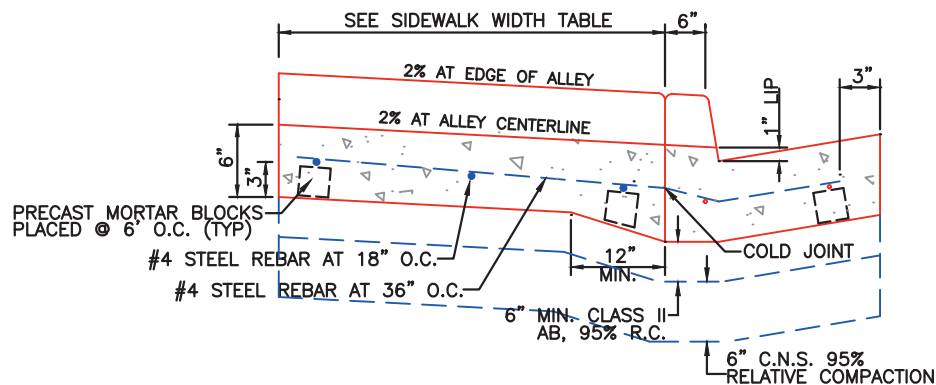
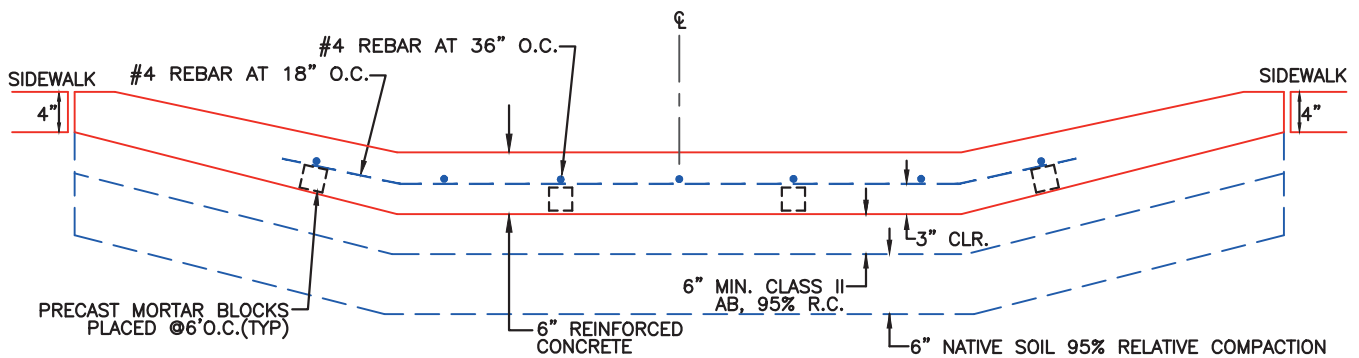
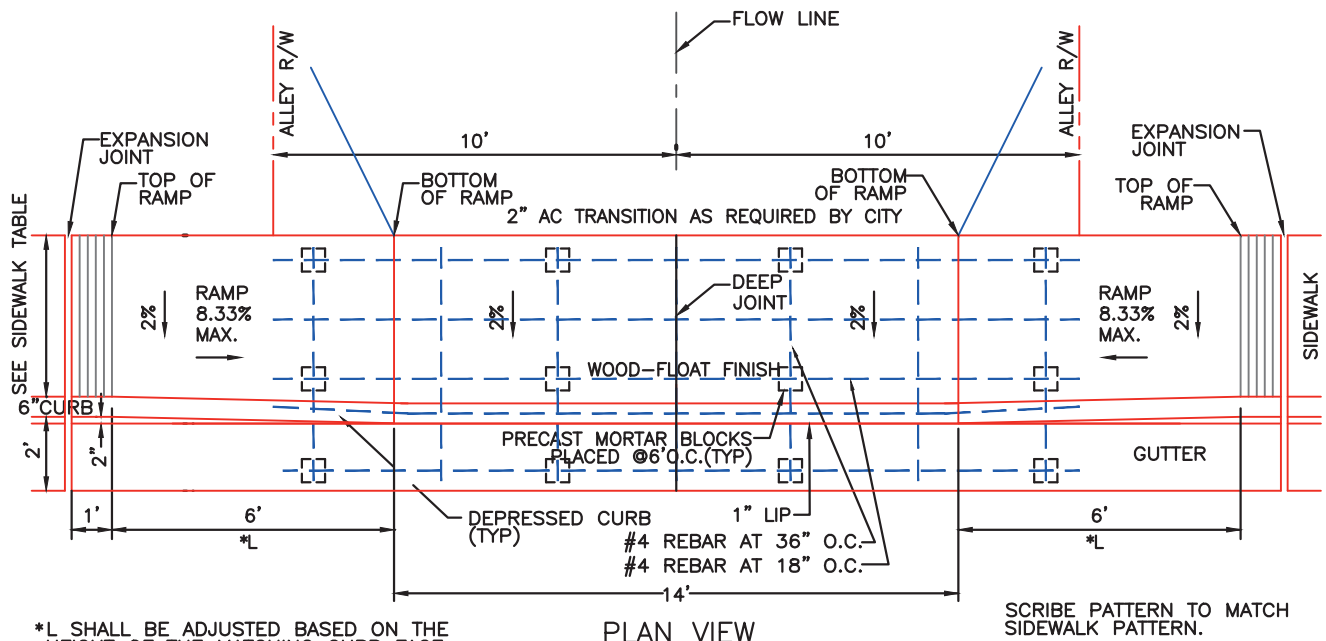
REVISED:  
MAR. 2020

REF. STD. DWG.:  
ST-13 & 14

**MAJOR COMMERCIAL  
DRIVE APPROACH**

*CITY OF REEDLEY*

**ST-22**



SIDEWALK WIDTH TABLE

RESIDENTIAL	5'-0"
INDUSTRIAL	5'-0"
COMMERCIAL	9'-6"

NOTE:

CONCRETE FOR ALLEY APPROACH SHALL BE CLASS 'A' 4000 PSI OVER 6" MIN. CLASS II AB 95% RELATIVE COMPACTION OVER 6" MIN. NATIVE SOIL 95% RELATIVE COMPACTION.



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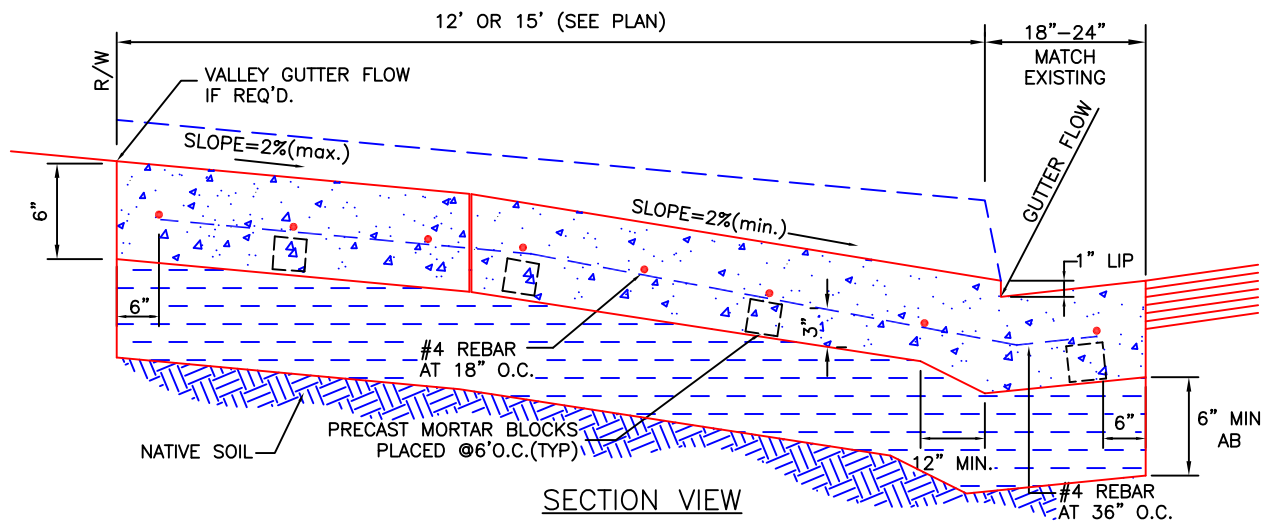
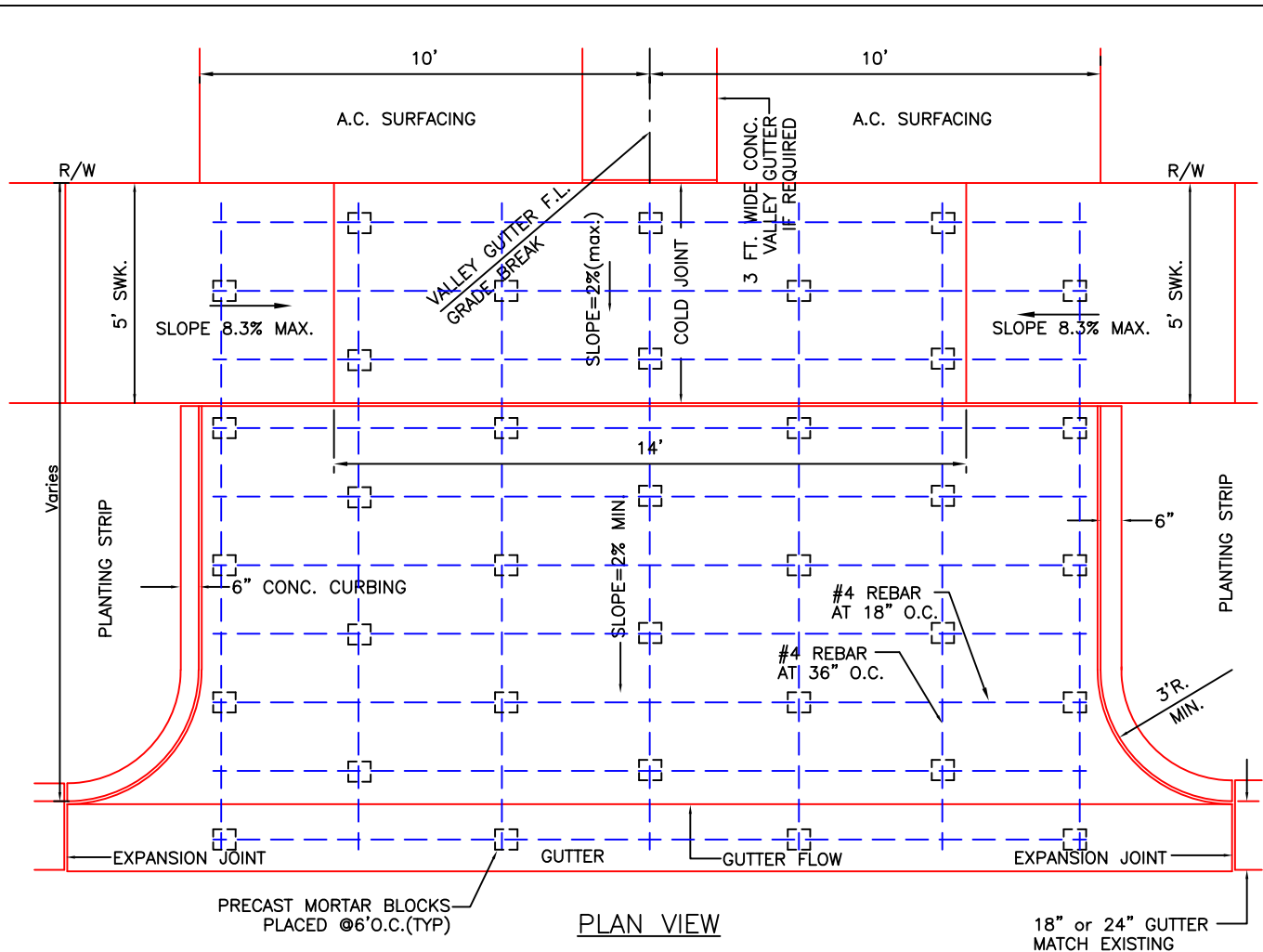
REVISED:  
MAR. 2020

REF. STD. DWG.:

# ALLEY APPROACH

CITY OF REEDLEY

ST-23



#### NOTES:

1. CONCRETE FOR ALLEY APPROACH SHALL BE CLASS 'A' 4000 PSI OVER 6" MIN. CLASS II AB 95% RELATIVE COMPACTION OVER 6" MIN. NATIVE SOIL 95% RELATIVE COMPACTION.
2. O.C. = ON CENTER

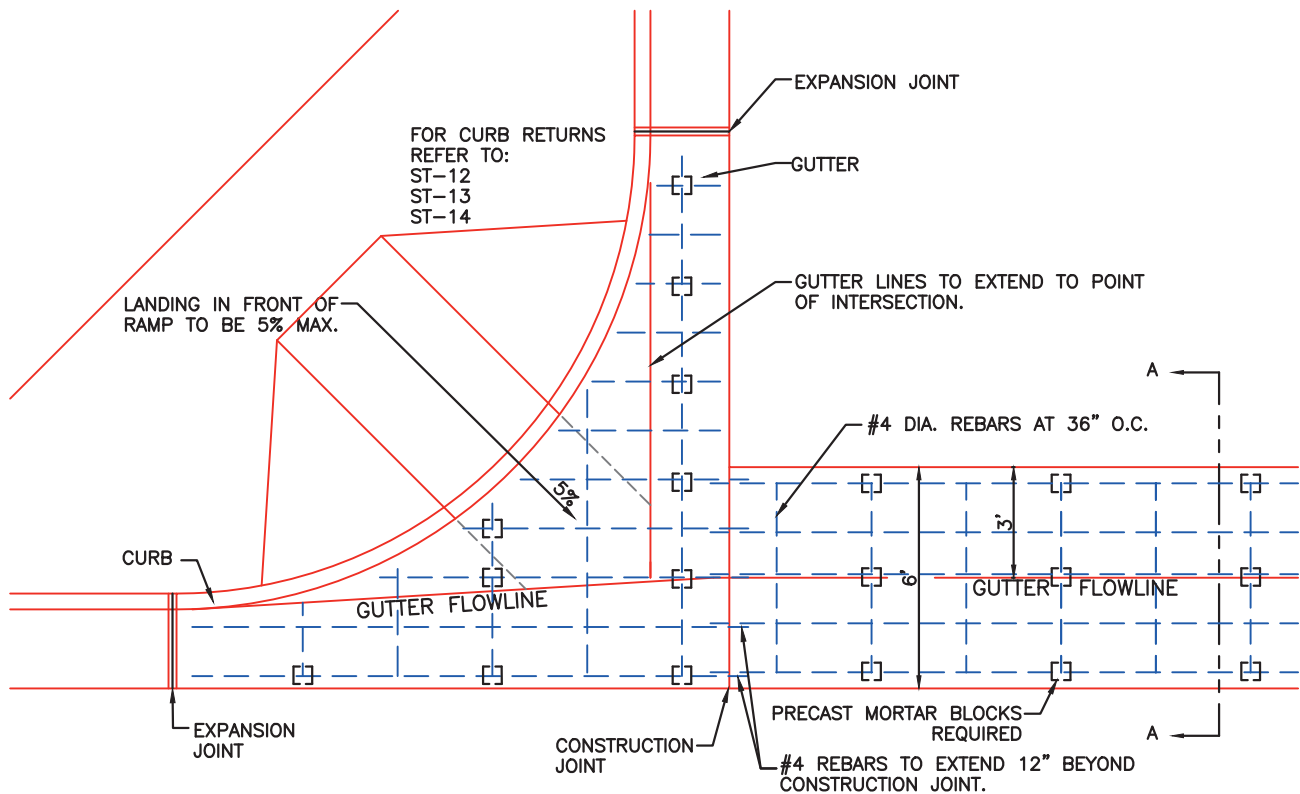


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REVISED:  
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REF. STD. DWG.:

## ALLEY APPROACH AREAS WITH PLANTING STRIPS

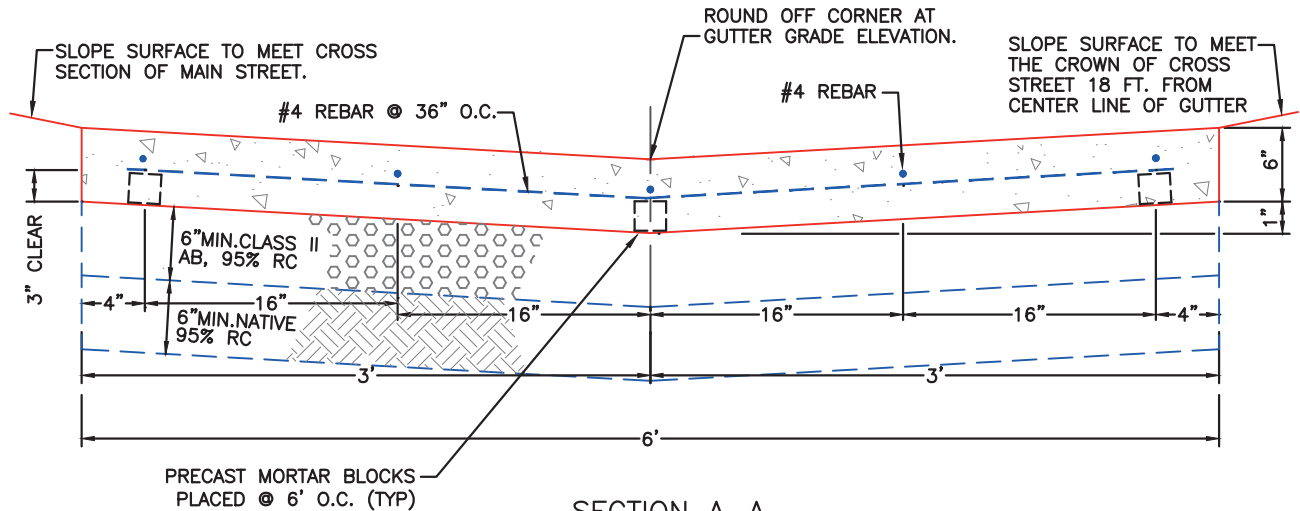
CITY OF REEDLEY

ST-24



PLAN VIEW

NOTE:  
EXTENSION TO BE WRAPPED WITH A KRAFT  
TYPE PAPER TO ALLOW FOR MOVEMENT.



SECTION A-A

NOTES:

1. MUST REPLACE EX. CURB & GUTTER WHEN RECONSTRUCTION IS REQUIRED.
2. CONCRETE SHALL BE CLASS 'A' 4000 PSI, MAX. 5" SLUMP.
3. STEEL REINFORCEMENT TO BE FREE OF RUST & PLACED AS SHOWN.
4. AB & NATIVE SUBGRADE TO BE COMPACTED TO A MIN. OF 95%. COMPACTION TESTS REQUIRED.
5. LIGHT BROOM FINISH.
6. GUTTER FLOW LINE SHALL BE WATER TESTED FOR FLOW.
7. O.C. = ON CENTER

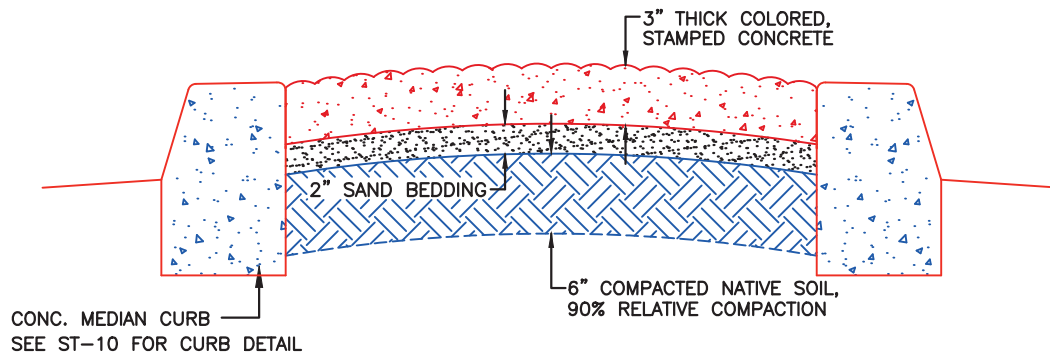
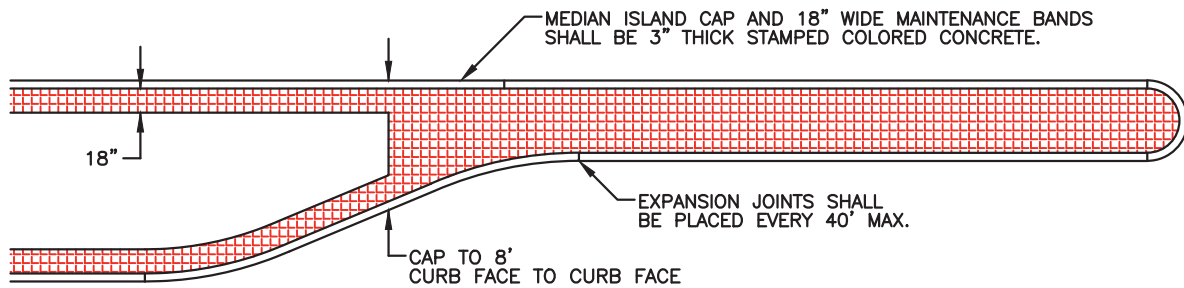


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REVISED:  
MAR. 2020  
REF. STD. DWG.:  
ST-12, 13 & 14

# CONCRETE CROSS VALLEY GUTTER

CITY OF REEDLEY

ST-25



**NOTES:**

STAMPED CONCRETE SHALL BE CLASS 'A' 4,000 PSI MIN. COLORED, CONCRETE 'FRANCISCAN RED' STAMPED IN A BRICK PATTERN SIMILAR TO EXISTING MEDIANS ON I STREET AND REINFORCED WITH #4 REBAR 12" O.C.

A LIQUID RELEASE AGENT SHALL BE USED. A CURE AND SEAL PRODUCT SHALL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS IMMEDIATELY AFTER COMPLETING THE IMPRINTING PROCESS.

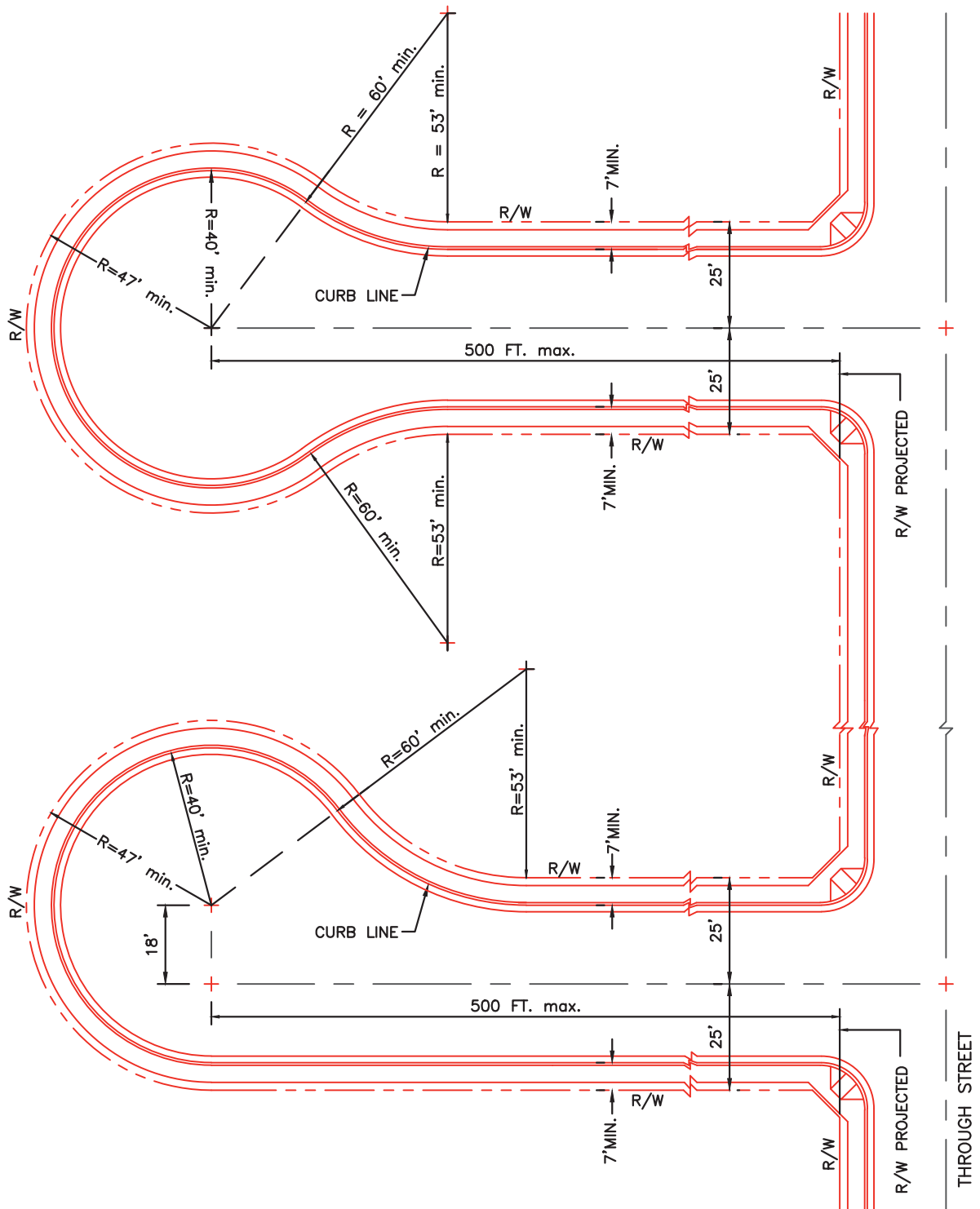


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REVISED:  
MAR. 2020  
REF. STD. DWG.:  
ST-10

## STAMPED CONCRETE MEDIAN

*CITY OF REEDLEY*

**ST-26**



**NOTES:**

1. STREET STRUCTURAL SECTION SHALL CONFORM TO CITY OF REEDLEY STD. PLAN ST-1.
2. MAXIMUM RADIUS OF CURVATURE OF CENTERLINE SHALL BE 175 FEET.
3. MINIMUM STREET WIDTH (CURB-FACE TO CURB-FACE) SHALL BE 36 FEET.



SCALE:  
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REVISED:  
MAR. 2020

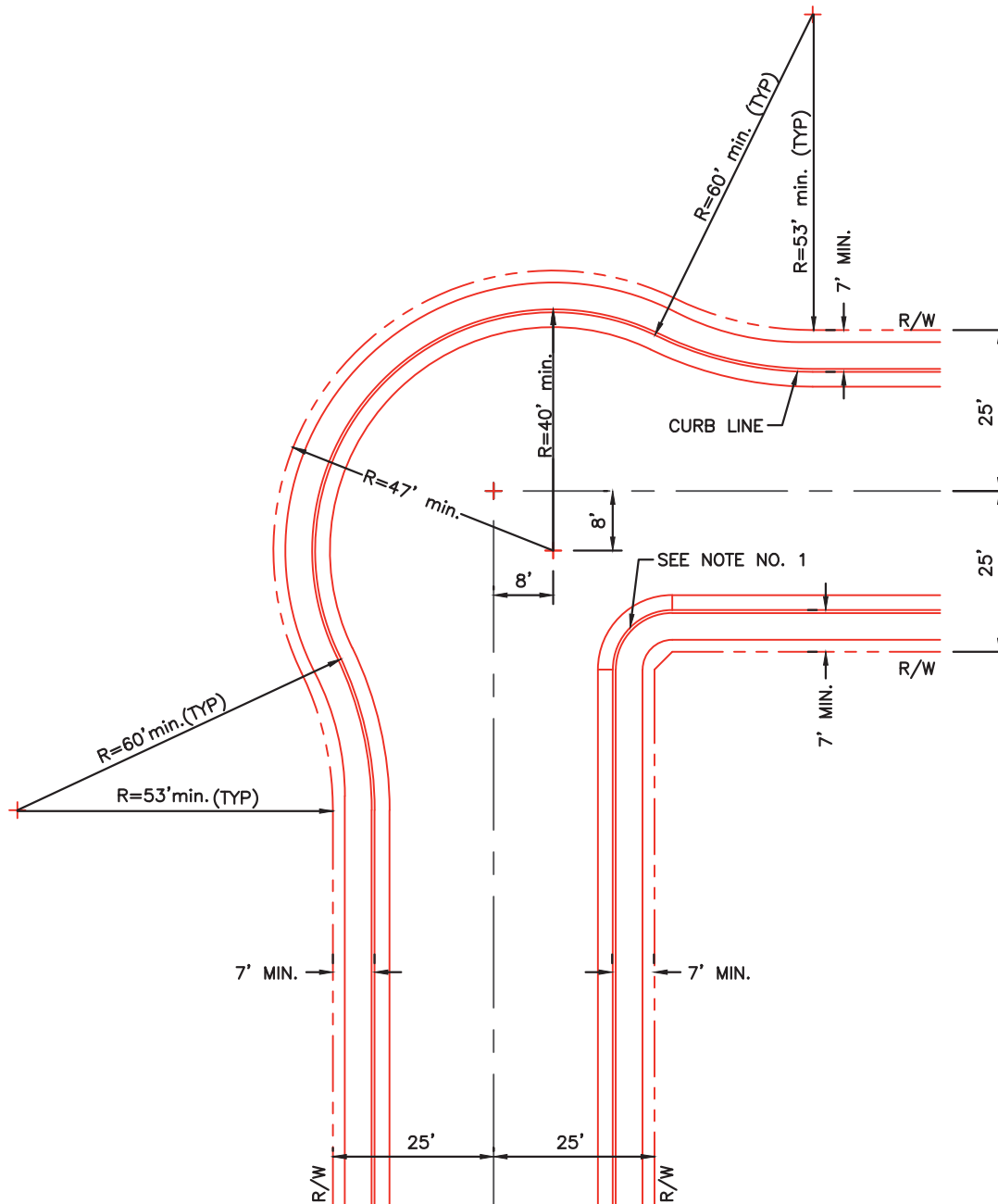
REF. STD. DWG.:  
ST-1

## STANDARD CUL-DE-SAC

*CITY OF REEDLEY*

**ST-27**





**NOTES:**

1. 12 FT. RADIUS CURB RETURN WITH SIDEWALK.
2. STREET STRUCTURAL SECTION SHALL CONFORM TO CITY OF REEDLEY STD. PLANS ST-1.
3. MINIMUM STREET WIDTH (CURB-FACE TO CURB-FACE) SHALL BE 36 FT.



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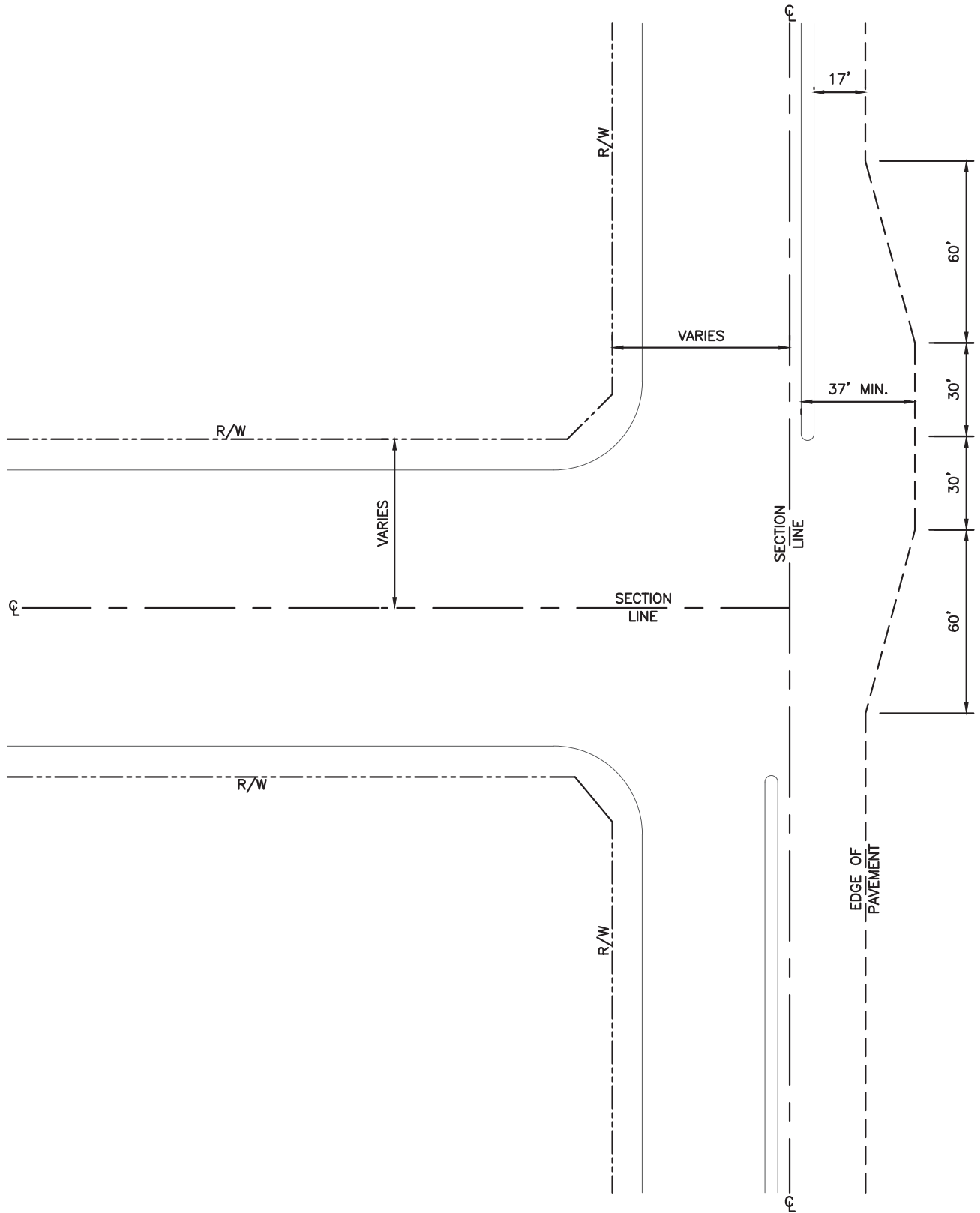
REVISED:  
MAR. 2020

REF. STD. DWG.:  
ST-1

## KNUCKLE CURVE

*CITY OF REEDLEY*

**ST-28**

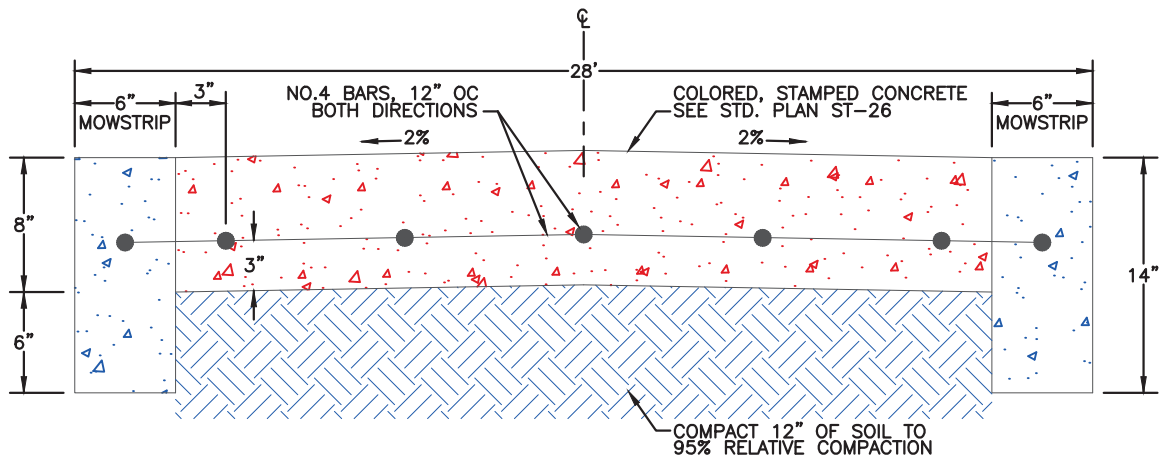


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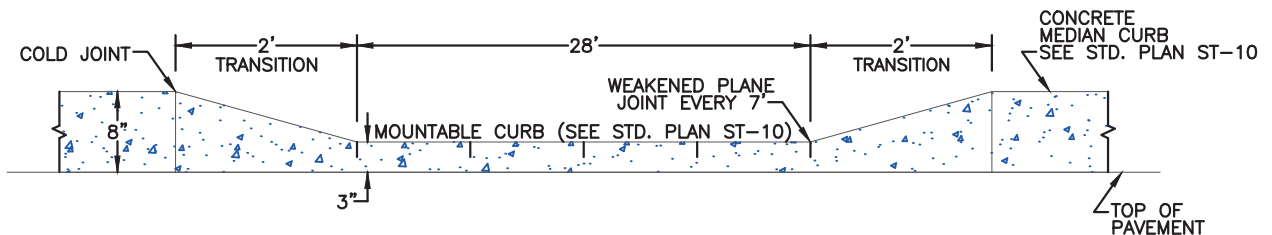
## U-TURN MINIMUM CLEARANCE

*CITY OF REEDLEY*

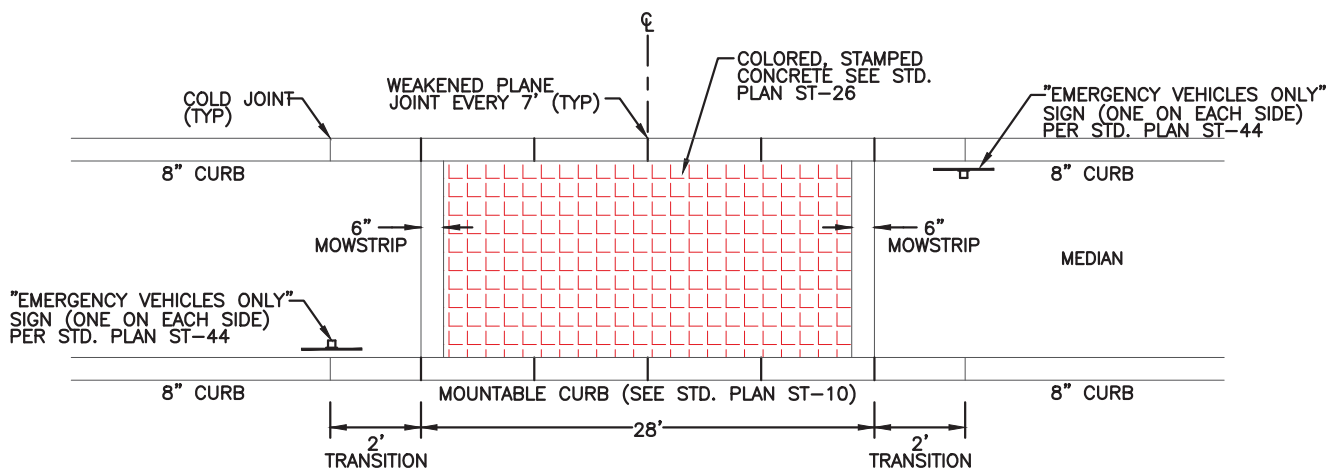
**ST-29**



REINFORCED CONCRETE APRON



CURB FACE PROFILE



MEDIAN OPENING PLAN VIEW



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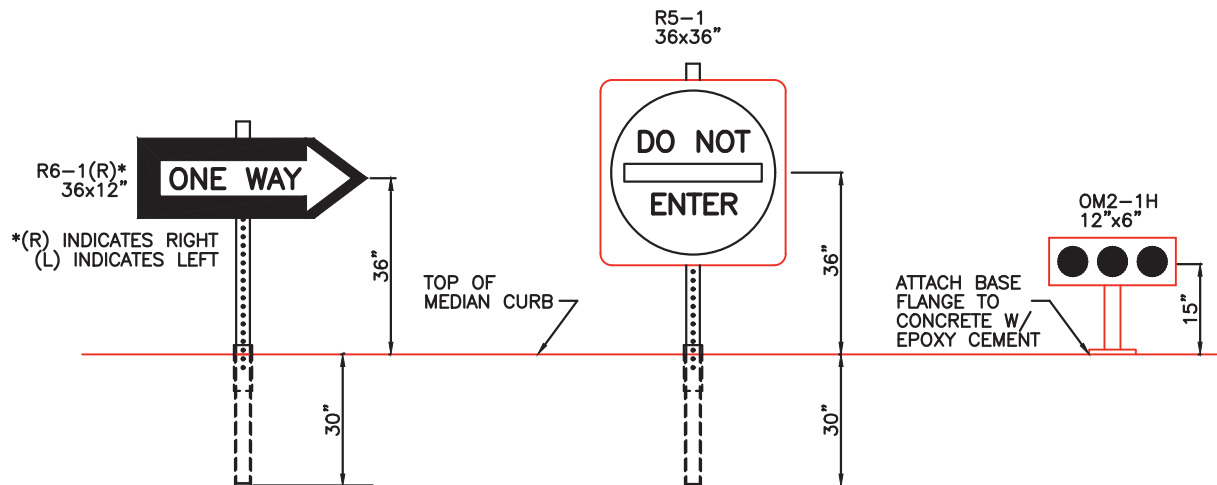
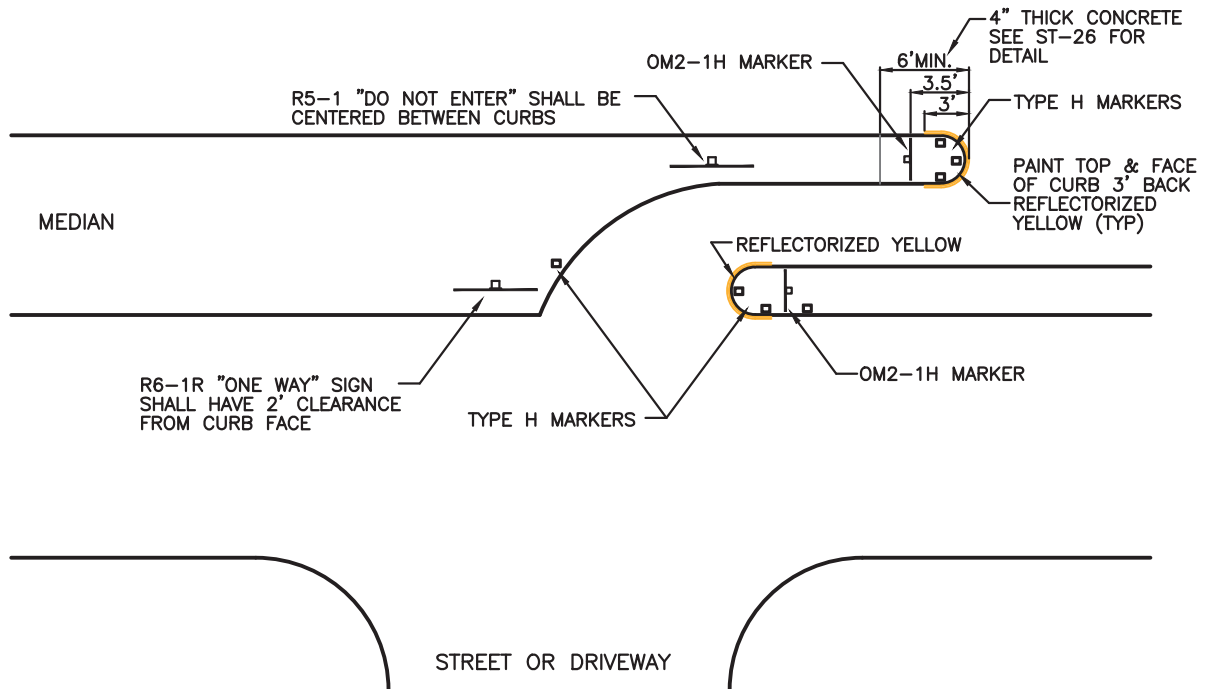
REVISED:  
MAR. 2020

REF. STD. DWG.:  
ST-10 & 44

## MEDIAN OPENING FOR EMERGENCY VEHICLES

*CITY OF REEDLEY*

**ST-30**



**NOTES:**

1. POST AND FLANGE FOR OM2-1H MARKER SHALL BE SCH.80 PVC, 2-1/4" MIN. YELLOW REFLECTORS ON WHITE.
2. TYPE H MARKERS SHALL BE ONE WAY YELLOW RETROREFLECTIVE AND SHALL BE CEMENTED TO THE TOP CURB WITH A RAPID SET TYPE EPOXY ADHESIVE IN CONFORMANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
3. POSTS FOR STREET SIGNS SHALL BE 12 GAUGE 2" X 2" SQUARE, GALVANIZED & PERFORATED. SEE DETAIL ON STD PLAN ST-44.



SCALE:  
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REF. STD. DWG.:  
ST-26 & 44

## MEDIAN ISLAND OPENING SIGNING

*CITY OF REEDLEY*

**ST-31**



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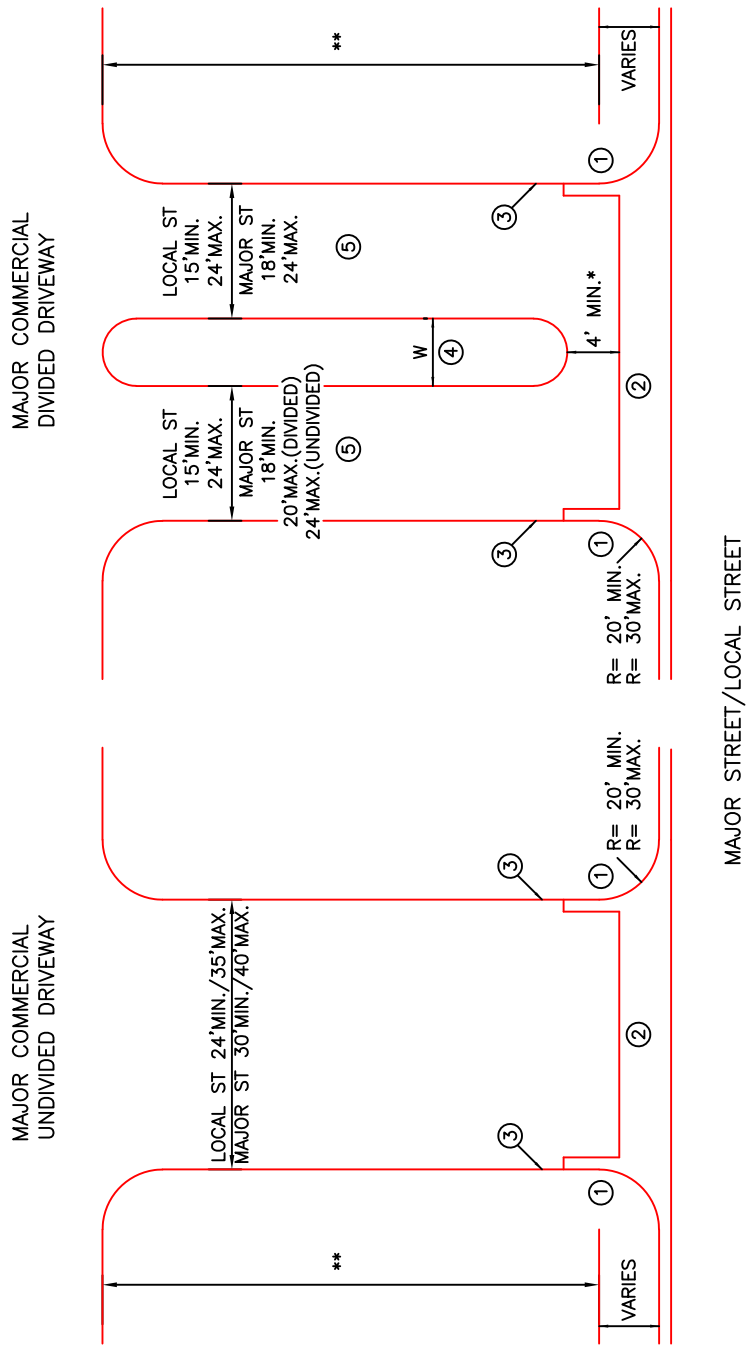
REVISED:  
MAR. 2020

REF. STD. DWG.:  
ST-22 & 34

## STREET TYPE APPROACH FOR DIVIDED AND UNDIVIDED DRIVEWAY

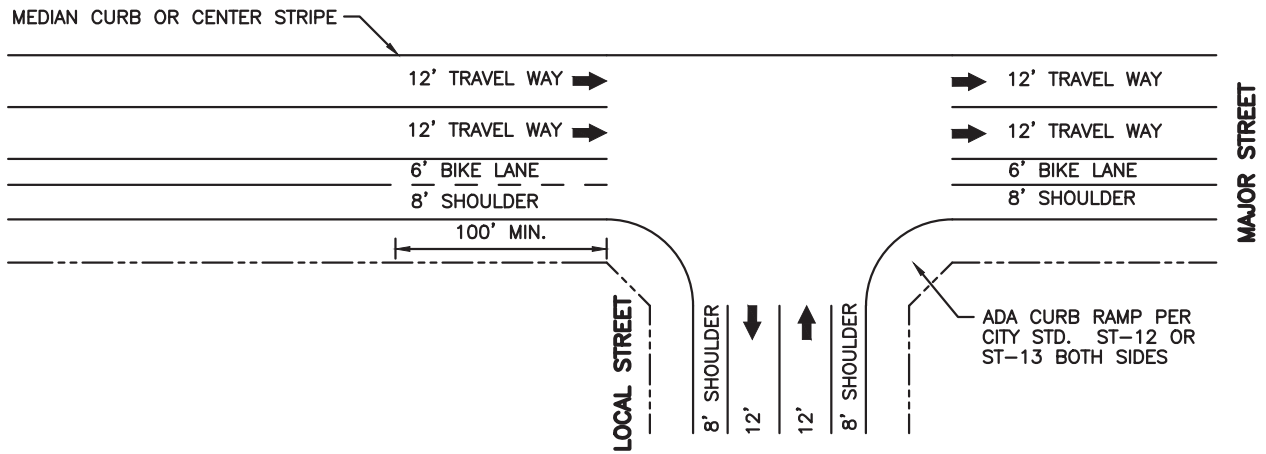
*CITY OF REEDLEY*

# ST-32

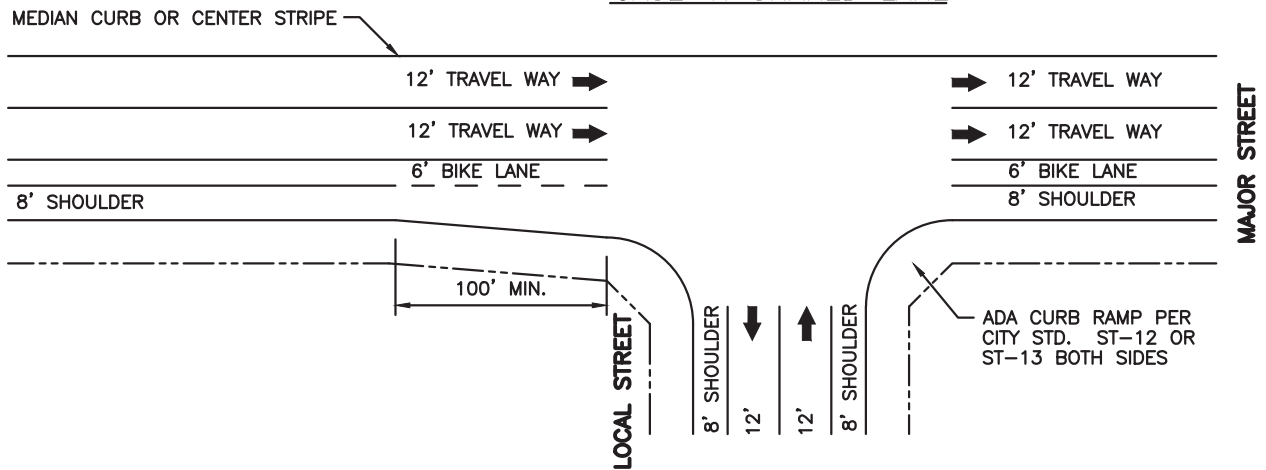


### NOTES:

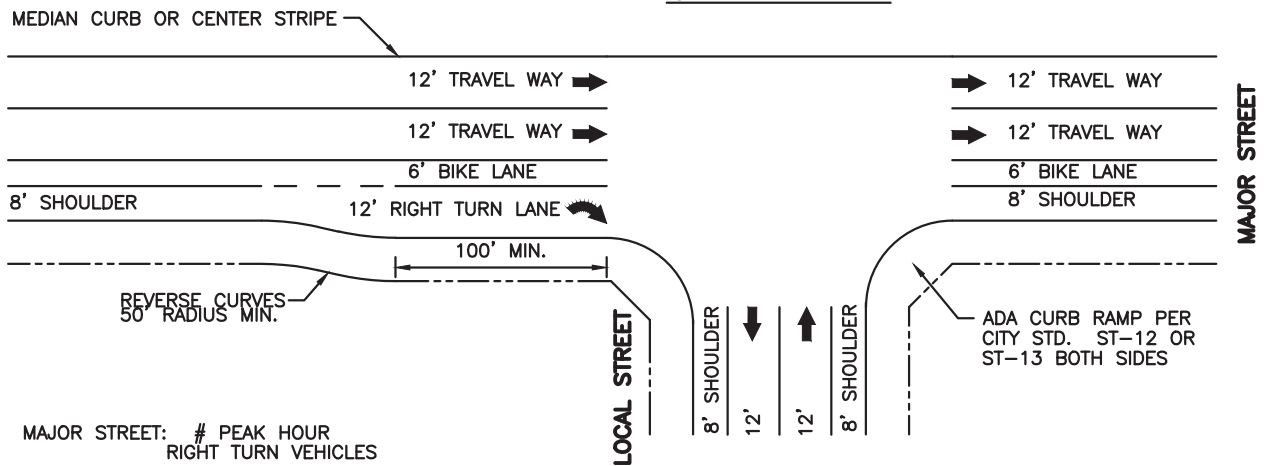
1. ADA CURB RAMPS REQUIRED.
  2. VALLEY GUTTER PER CITY STD. ST-22.
  3. 6 INCH HIGH CONCRETE CURB FOR LENGTH OF REQUIRED THROAT.
  4. W=5' MIN, 10' MAX. FOR MAJOR STREET, 20' MAX. FOR LOCAL STREET.
  5. 20' MIN. FOR ENTRANCE AND EXIT IF DRIVEWAY IS SOLE ACCESS.
  6. ON DIVIDED MAJOR STREET, DESIGN ONE-WAY LEFT TURN POCKET PER CITY STD. ST-34, WHERE APPROVED BY CITY ENGINEER.
- \* FOR ADA ACCESSIBILITY ACROSS DRIVEWAY TO BE MEASURED FROM PUBLIC EASEMENT, (STREET, PEDESTRIAN OR TRAIL) WHICHEVER PROVIDES FOR MORE STACKING
- \*\* LOCAL ST (W/O LEFT TURN ACCESS) 20' MIN.  
MAJOR ST (W/O LEFT TURN ACCESS) 40' MIN.  
MAJOR ST (W/ LEFT TURN ACCESS) 90' MIN.



CASE 1: SHARED LANE



CASE 2: TAPER



CASE 3: RIGHT TURN POCKET

MAJOR STREET: # PEAK HOUR  
RIGHT TURN VEHICLES

		CASE 1	CASE 2	CASE 3
SPEED (MPH)	35	<50	<50-<100	≤100
	40	<40	<40-<90	≤90
	45	<30	<30-<80	≤80
	>50	<20	<20-<75	≤75

NOTES:

CASE 2: NOT ALLOWED WHEN AT A SIGNALIZED INTERSECTION.

CASE 3: \*\*EXCEPTIONS NEED TO BE APPROVED BY CITY ENGINEER.



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NOT TO SCALE

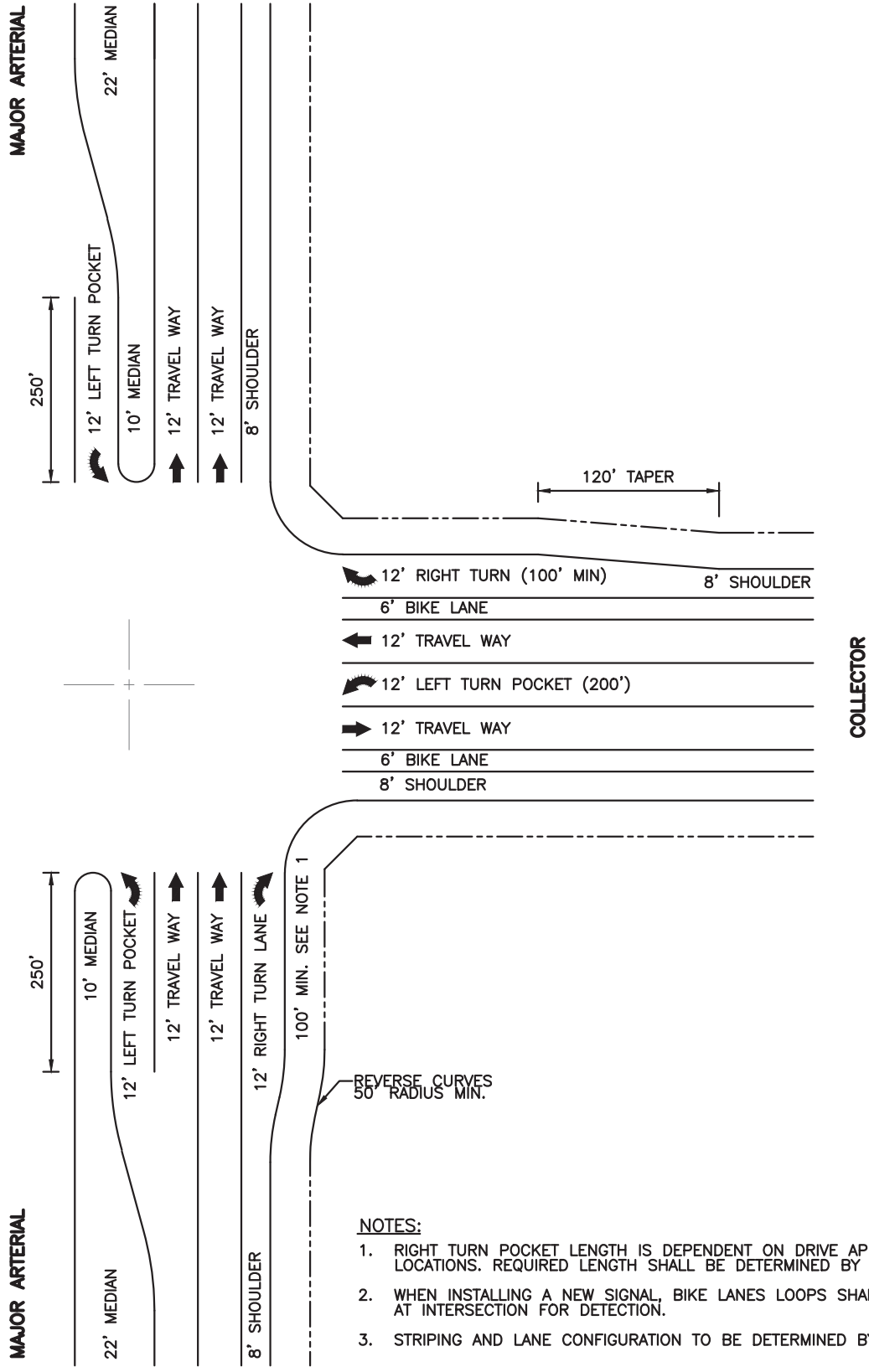
REVISED:  
MAR. 2020

REF. STD. DWG.:  
ST-12 & 13

STREET CONNECTIONS

CITY OF REEDLEY

ST-33



**NOTES:**

1. RIGHT TURN POCKET LENGTH IS DEPENDENT ON DRIVE APPROACH LOCATIONS. REQUIRED LENGTH SHALL BE DETERMINED BY CITY ENGINEER.
2. WHEN INSTALLING A NEW SIGNAL, BIKE LANES LOOPS SHALL BE INSTALLED AT INTERSECTION FOR DETECTION.
3. STRIPING AND LANE CONFIGURATION TO BE DETERMINED BY CITY ENGINEER.



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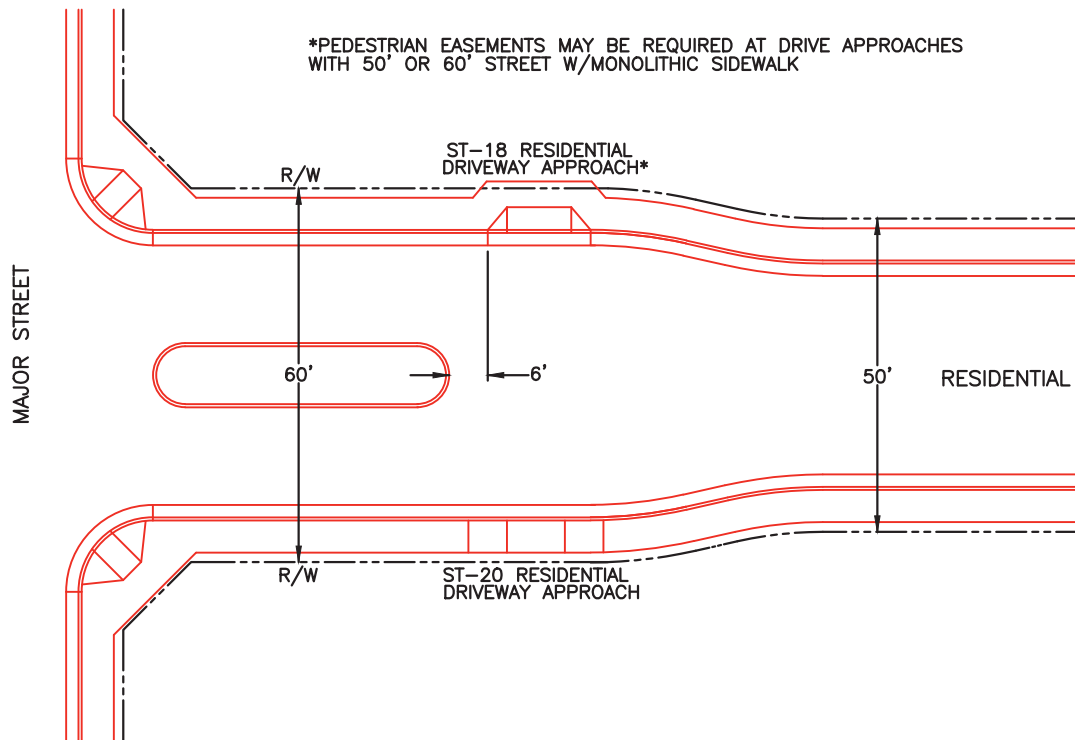
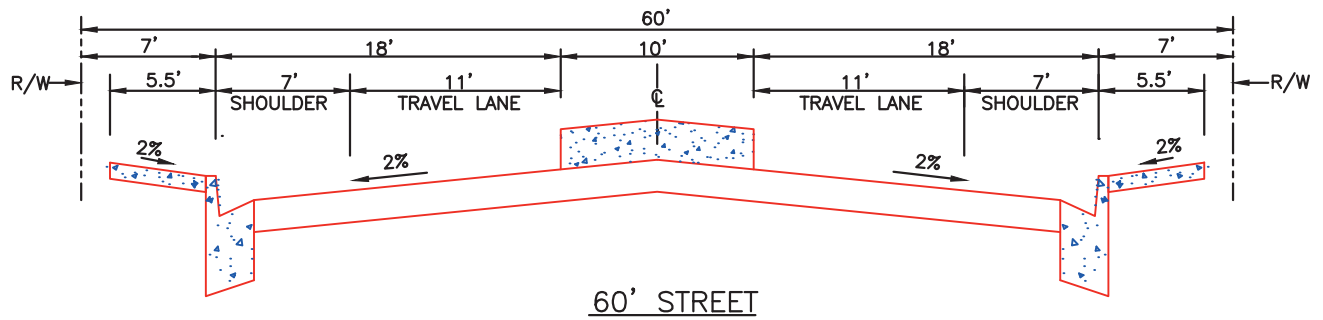
REVISED:  
MAR. 2020

REF. STD. DWG.:

**MAJOR STREET  
INTERSECTION DETAIL**

*CITY OF REEDLEY*

**ST-34**



#### NOTES:

1. GREATER RIGHT-OF-WAY MAY BE APPROVED IN SUCH CASE AS FOR A SIDEWALK W/PARKSTRIP OR FOR A MEANDERING SIDEWALK.
2. THE MEDIAN ISLAND SHALL EXTEND FROM THE MAJOR STREET UNTIL THE CLOSEST SIDE OF THE FIRST DRIVEWAY.
3. A 20' MINIMUM SETBACK FROM BACK OF SIDEWALK TO GARAGE WHEN THE GARAGE DOOR FRONTS ON THE STREET SHALL BE REQUIRED. THE ACTUAL SETBACK SHALL NOT BE LESS THAN REQUIRED BY THE ZONING ORDINANCE.



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NOT TO SCALE  
REVISED:  
MAR. 2020  
REF. STD. DWG.:  
ST-18 & 20

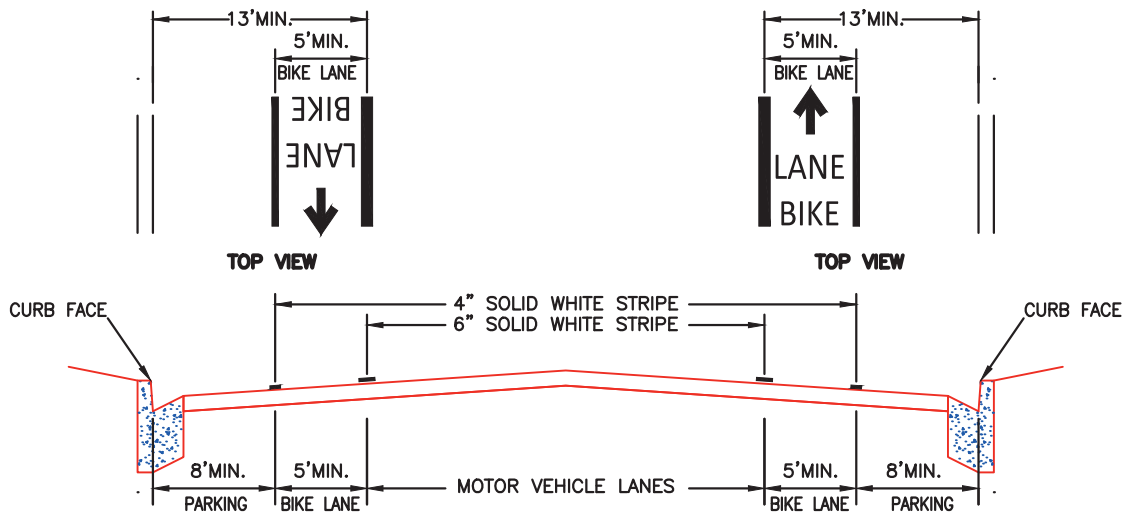
## RESIDENTIAL ENTRY TREATMENT

CITY OF REEDLEY

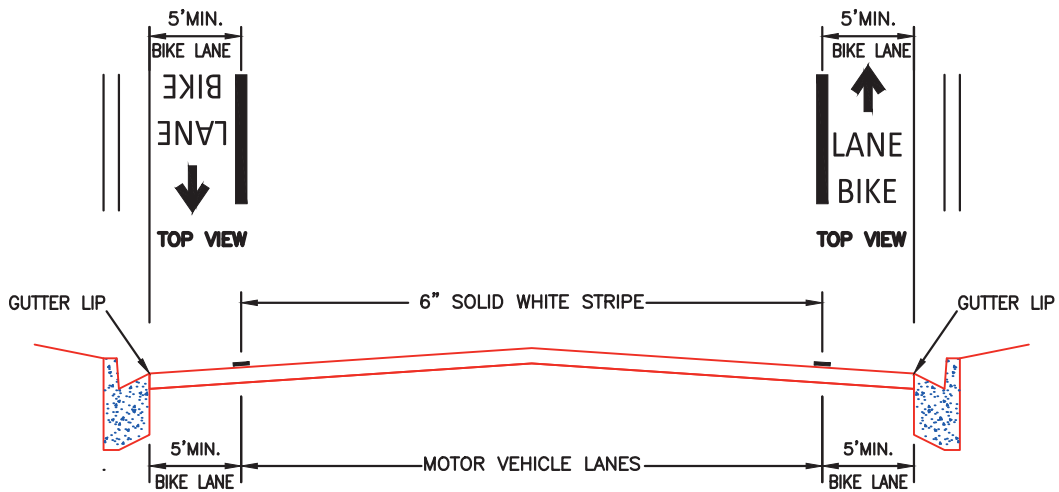
ST-35







CASE I



CASE II

**NOTE:**

SIGNS R26(S)CA "NO STOPPING AT ANY TIME" SHALL INSTALLED AT 200 FOOT INTERVALS. (OR AT INTERVALS DETERMINED BY EXISTING STREETLIGHT POLES) WHEN STRIPING A CASE II BIKE LANE.

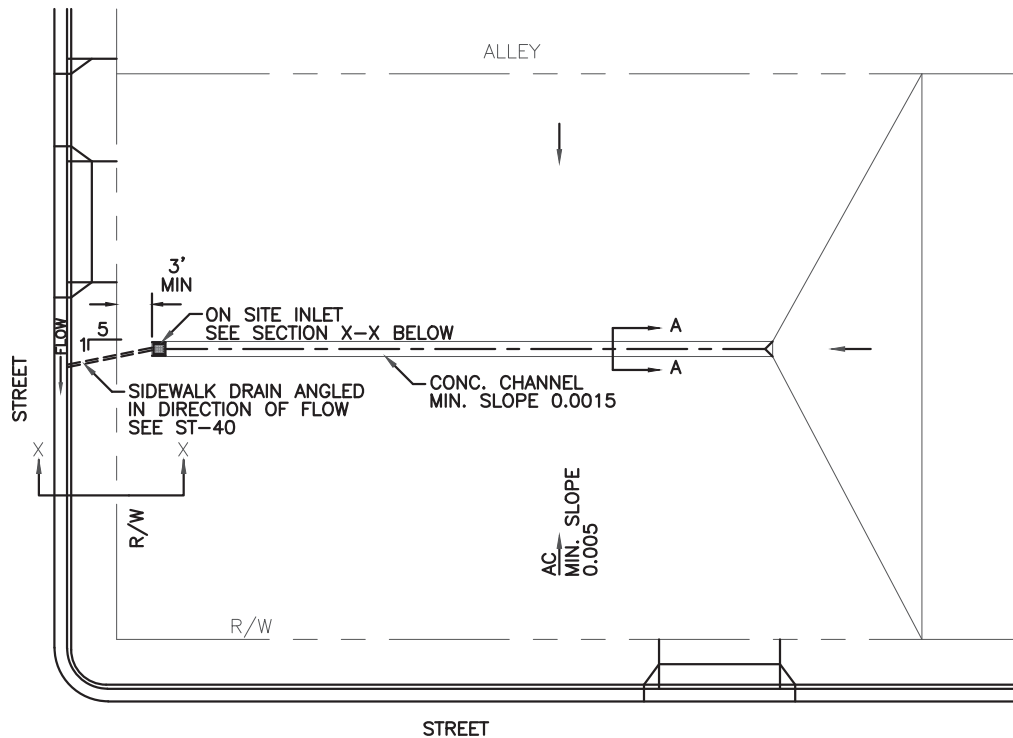


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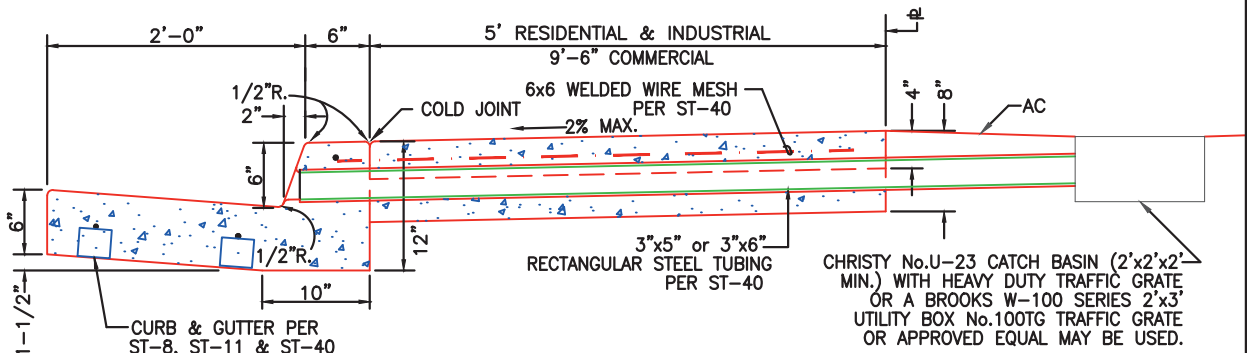
**TYPICAL BIKE LANE**

*CITY OF REEDLEY*

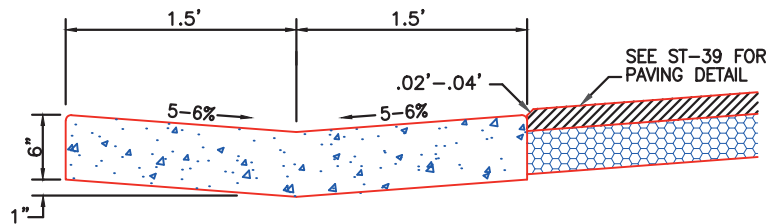
**ST-37**



PLAN VIEW



SECTION X-X  
SIDEWALK DRAIN



SECTION A-A  
CONCRETE CHANNEL

NOTES:

1. CONCRETE CHANNEL TO HAVE WEAKENED PLANE JOINTS AT 20' O.C. AND EXPANSION JOINTS AT 40' O.C.
2. SURFACE DRAINAGE TO ALLEY ONLY BY WRITTEN APPROVAL OF THE CITY ENGINEER.
3. SURFACE DRAINAGE OVER DRIVEWAYS AND SIDEWALKS IS NOT PERMITTED WHEN THE AREA TO BE DRAINED EXCEEDS 1/4 ACRE (10,890 SF).

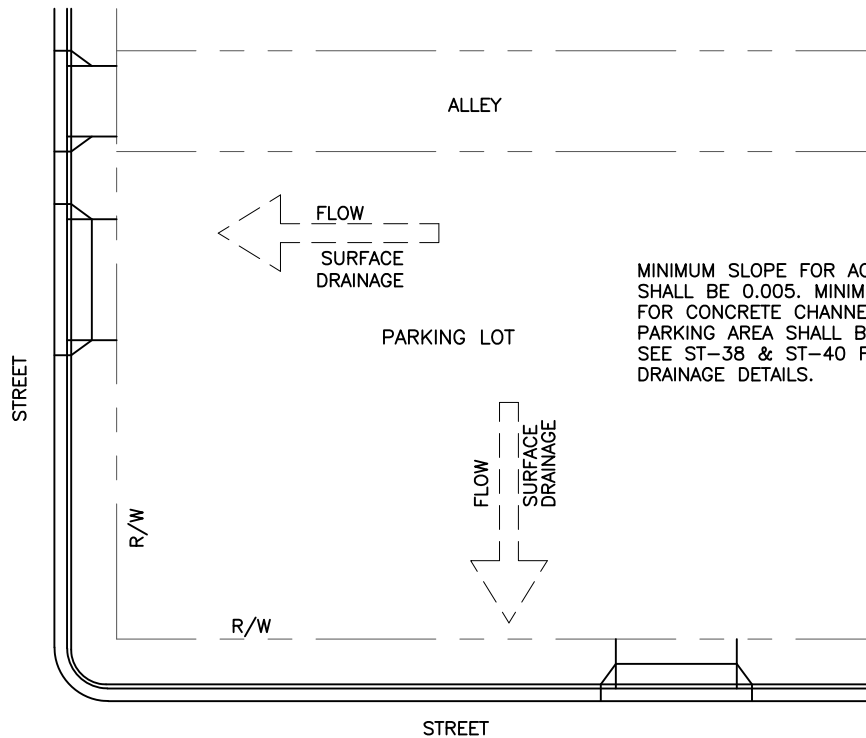


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REF. STD. DWG.:  
ST-8, 11 & 40

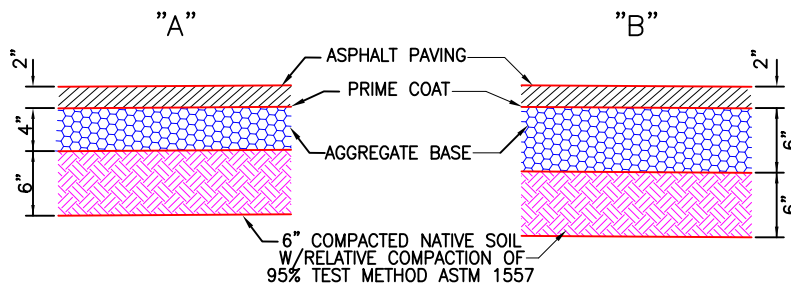
PARKING LOT  
DRAINAGE DETAILS

CITY OF REEDLEY

ST-38

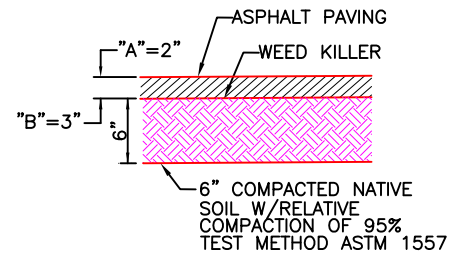


PLAN VIEW



PARKING LOTS

INDUSTRIAL PARKING LOTS  
AND LOADING ZONES



OPTIONAL WITH  
APPROVED TEST

NOTES:

1. SURFACE DRAINAGE SHALL BE TO STREET ONLY BY WRITTEN APPROVAL OF THE CITY ENGINEER.
2. PARKING BUMPERS TO BE PLACED SO THAT PARKED CARS WILL NOT OVERHANG ON SIDEWALKS OR STREETS.
3. THE OPTIONAL CROSS-SECTION MAY BE USED UPON SUBMISSION OF "R" VALUE TESTS TAKEN BY AN APPROVED LABORATORY SUBSTANTIATING THE USE OF EXISTING SOIL FOR THE BASE. A MINIMUM VALUE OF 65 WILL BE REQUIRED.
4. WHERE ASPHALT CONCRETE IS APPLIED TO THE NATIVE SOIL, SOIL STERILANT AS PER MANUFACTURER'S SPECIFICATIONS WILL BE REQUIRED BEFORE THE SURFACE MATERIAL IS PLACED. WEED KILLER TO BE APPLIED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION.
5. SURFACE DRAINAGE TO ALLEY ONLY BY WRITTEN APPROVAL OF THE CITY ENGINEER.
6. TEMPORARY PARKING LOTS (USE NOT TO EXCEED 60 DAYS) SHALL BE GRADED AND ROLLED SMOOTH. THE TOP 6" OF NATIVE SOIL SHALL BE COMPACTED TO 85% RELATIVE COMPACTION USING TEST METHOD ASTM 1557. A DUST PALLIATIVE PER STATE STANDARD SPECIFICATIONS AT THE RATE OF 1 GAL./SQ. YD. TO OBTAIN A MINIMUM PENETRATION OF 1". THE MIXING RATIO SHALL BE 4:1 PER STATE STANDARD SPECIFICATIONS. THE DEVELOPER SHALL POST A BOND TO GUARANTEE REMOVAL OF ALL IMPROVEMENTS FOR A TEMPORARY PARKING LOT.



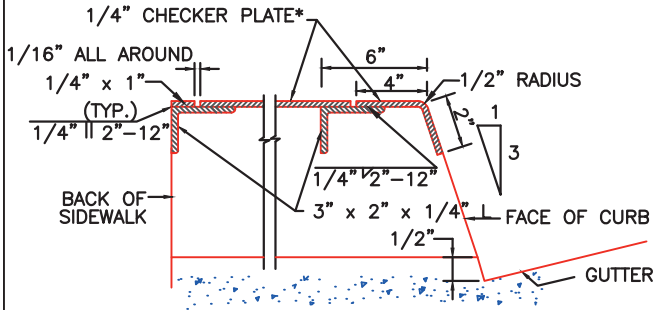
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ST-38 & 40

**PARKING LOT  
PAVING DETAILS**

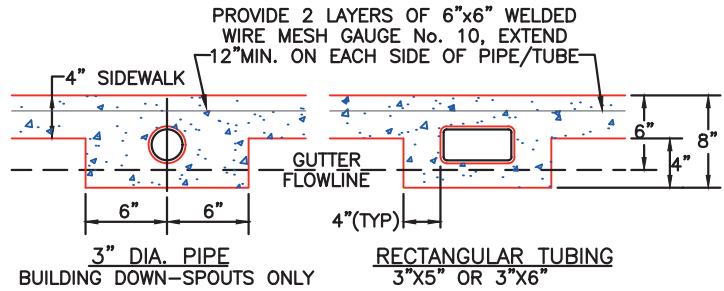
*CITY OF REEDLEY*

**ST-39**

\*ONE SECTION OF 1/4" CHECKER PLATE SHALL NOT EXCEED 5' IN LENGTH. PROVIDE 1"x1"x1/4" ANGLE IRON WELDED ON THE UNDERSIDE OF PLATES IF CHANNEL EXCEEDS 5 FEET.



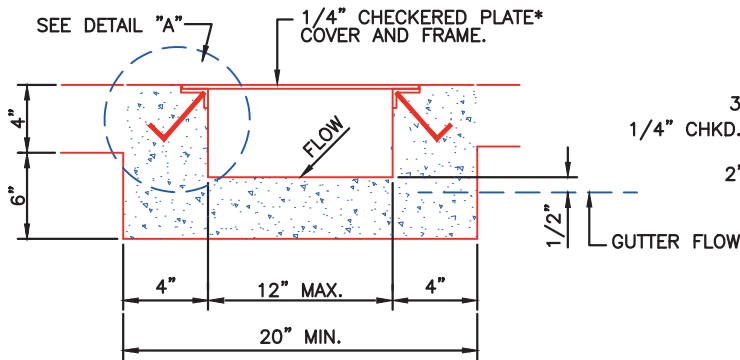
CURB SIDE VIEW OF TROUGH



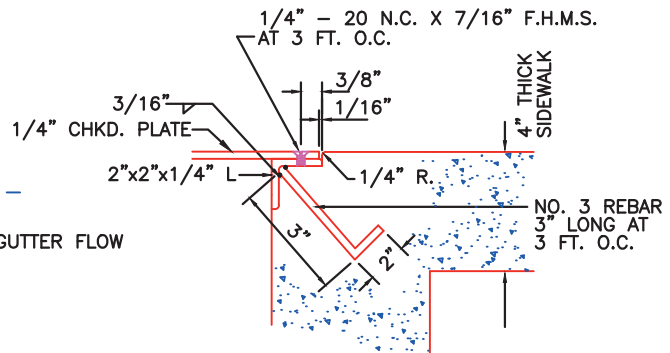
ROLL CONCRETE TO FORM MOUTH OF PIPE/TUBE

GUTTER FLOW DETAIL

SIDEWALK DRAIN TUBE/PIPE



CHANNEL THROUGH WALK



DETAIL "A"

#### NOTES:

1. SIDEWALK DRAIN PIPE ONLY TO BE USED WITH THE APPROVAL OF THE CITY ENGINEER.
2. REMOVE AND REPLACE CONCRETE CURB AND GUTTER WITHIN LIMITS OF WORK WHERE CONCRETE CURB & GUTTER EXIST, PER ST-8 & ST-11 CONCRETE COLD JOINTS.
3. 3" PIPE SHALL BE GALVANIZED PIPE. RECTANGULAR TUBING SHALL BE STEEL. PVC NOT ALLOWED WITHIN CITY R/W.
4. MINIMUM WALL THICKNESS OF RECTANGULAR TUBING IS 3/16".
5. NO DRAIN SHALL BE PERMITTED IN DRIVE APPROACH AREAS.
6. SIDEWALK DRAINS, EXCEPT CHANNELS, SHALL BE ANGLED IN DIRECTION OF GUTTER FLOW AT 1:5 ANGLE.
7. ALL CONCRETE SHALL BE CLASS 'A' AND EXPOSED SURFACES SHALL BE FINISHED AS PER CURB SPECIFICATIONS.,
8. DRAIN SLOPES SHALL BE 0.010 MIN. AND 0.020 MAX.
9. FLOOR OF TROUGH SHALL BE GIVEN A STEEL TROWEL FINISH. ALL PARTS SHALL BE STRUCTURAL GRADE STEEL AND ALL EXPOSED METAL SHALL BE PAINTED OR DIPPED W/ASPHALTUM PAINT.

#### AREAS TO BE DRAINED FROM PRIVATE PROPERTY TO PUBLIC STREETS

SURFACE AREA	TYPE OF SURFACE	DRAIN AREA REQUIRED
2 ACRES 200'x400'	PAVED GRASS	100 SQ. IN. 25 SQ. IN.
1.5 ACRES 200'x300'	PAVED GRASS	75 SQ. IN. 20 SQ. IN.
1 ACRE 200'x200'	PAVED GRASS	50 SQ. IN. 12 SQ. IN.
0.75 ACRE 150'x200'	PAVED GRASS	40 SQ. IN. 10 SQ. IN.
0.50 ACRE 100'x200'	PAVED GRASS	30 SQ. IN. 6 SQ. IN.
0.25 ACRE 100'x100'	PAVED GRASS	16 SQ. IN. 3 SQ. IN.
USE 1 ACRE = 200'x200' OR 100'x400'		
AREA 3" DIA. PIPE = 7.1 SQ. IN.(ROOF DRAIN)		
AREA 3"x5" RECT. TUBE = 12.3 SQ. IN.		
AREA 3"x6" RECT. TUBE = 14.9 SQ. IN.		
AREA 3"x12" CHANNEL = 36 SQ. IN.		
AREA 4"x14" CHANNEL = 56 SQ. IN.		

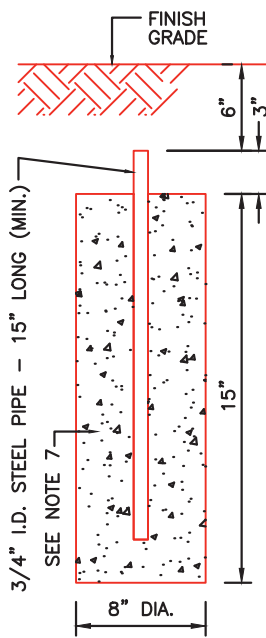


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ST-8 & 11

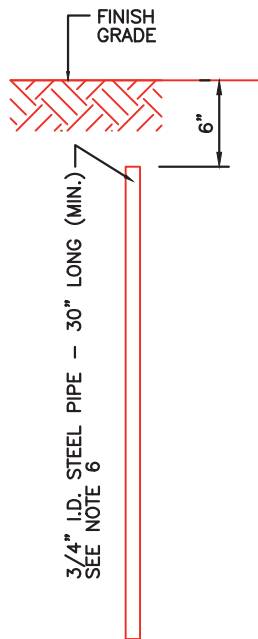
## SIDEWALK DRAINS

CITY OF REEDLEY

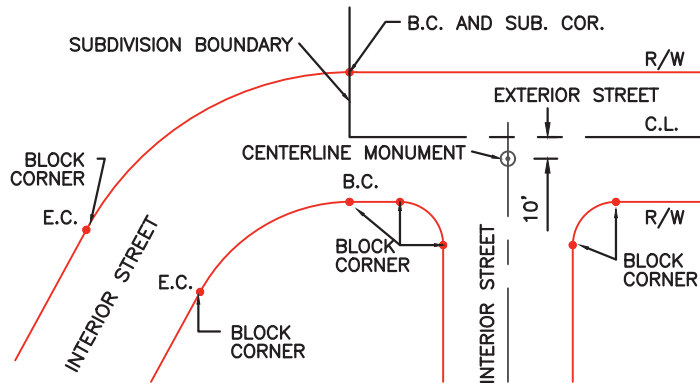
ST-40



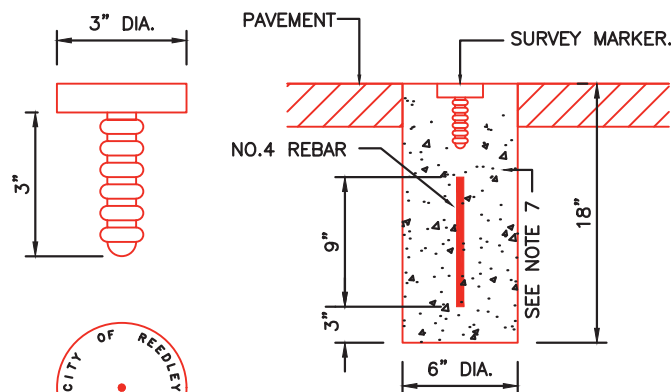
SUBDIVISION AND  
BLOCK CORNER



LOT CORNER



TYPICAL LOCATIONS FOR CORNERS AND MONUMENTS



DETAIL

SERVCO NO. 2136 BRONZE SURVEY MARKER.

CENTERLINE MONUMENT

NOTES:

1. IN CONFORMANCE WITH SECTION 8772 OF THE "LAND SURVEYORS ACT", ALL CORNERS SHALL BE TAGGED WITH THE SURVEYOR'S NUMBER. EACH NUMBER SHALL BE PRECEDED BY THE LETTERS "PLS" OR "PE" RESPECTIVELY.
2. ALL SUBDIVISION BOUNDARY CORNERS, ANGLE POINTS, AND CURVE POINTS SHALL BE MONUMENTED WITH THE SUBDIVISION CORNER MONUMENT.
3. ALL BLOCK CORNERS, ANGLE POINTS AND CURVE POINTS INTERIOR TO THE TRACT SHALL BE MONUMENTED WITH THE BLOCK CORNER MONUMENT.
4. ALL LOT CORNERS NOT MARKED BY SUBDIVISION OR BLOCK CORNER MONUMENTS SHALL BE MONUMENTED WITH THE LOT CORNER MONUMENT.
5. ALL INTERSECTIONS OF INTERIOR STREET CENTERLINES W/ EXTERIOR OR BOUNDARY STREET CENTERLINES SHALL BE MONUMENTED WITH CENTERLINE MONUMENTS SET ON THE INTERIOR STREET CENTERLINE 10 FT. OFF THE EXTERIOR STREET CENTERLINE.
6. WITH PERMISSION OF THE CITY ENGINEER, PIPE FOR LOT CORNER MONUMENTS MAY BE SHORTENED TO 15" IN LENGTH IN AREAS WITH HARDPAN.
7. CONCRETE FOR MONUMENTS SHALL BE CLASS 'C' (2800 PSI) CONCRETE.
8. ADDITIONAL MONUMENTS MAY BE REQUIRED AT THE DISCRETION OF THE CITY ENGINEER.

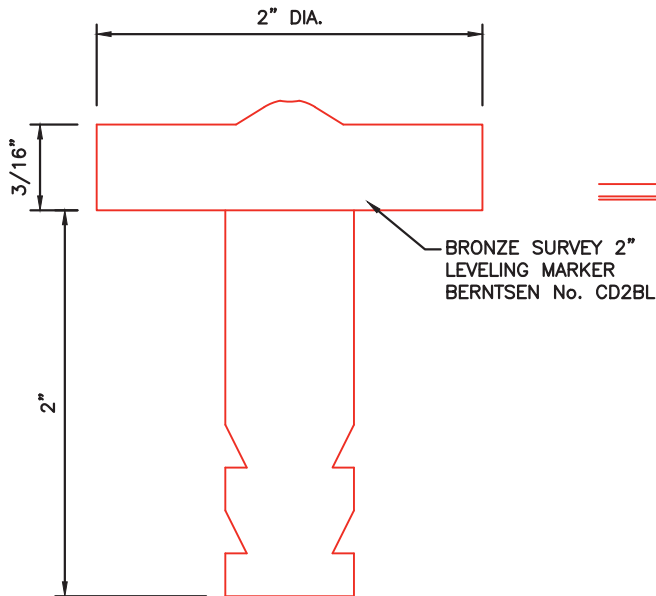


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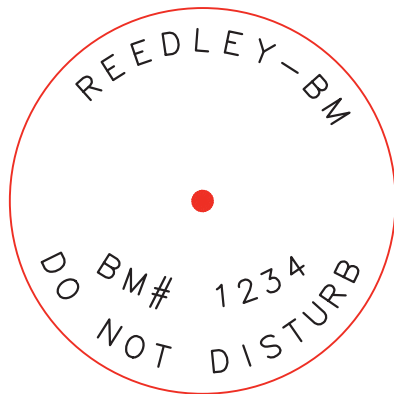
SURVEY MONUMENT  
DETAILS

CITY OF REEDLEY

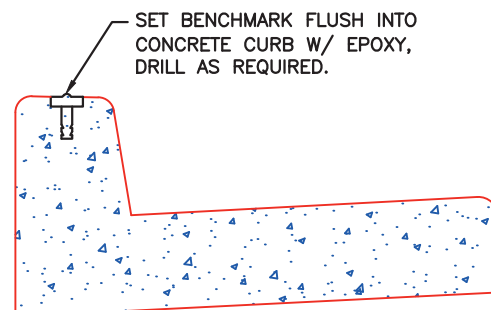
ST-41



ROAD INTERSECTION



SURVEY MONUMENT



STANDARD CURB & GUTTER

NOTES:

1. LOCATE BENCHMARKS AT THE CORNER OF INTERSECTIONS APPROVED BY THE CITY ENGINEER.
2. COMPLETE NOTES SHOWING LOCATIONS, ELEVATIONS AND CLOSURES SHALL BE FILED WITH THE CITY SURVEYOR.
3. ELEVATIONS SHALL BE BASED ON CITY OF REEDLEY DATUM, NAVD88.
4. BENCHMARK NUMBER SHALL BE STAMPED WITH DIES ON TOP.

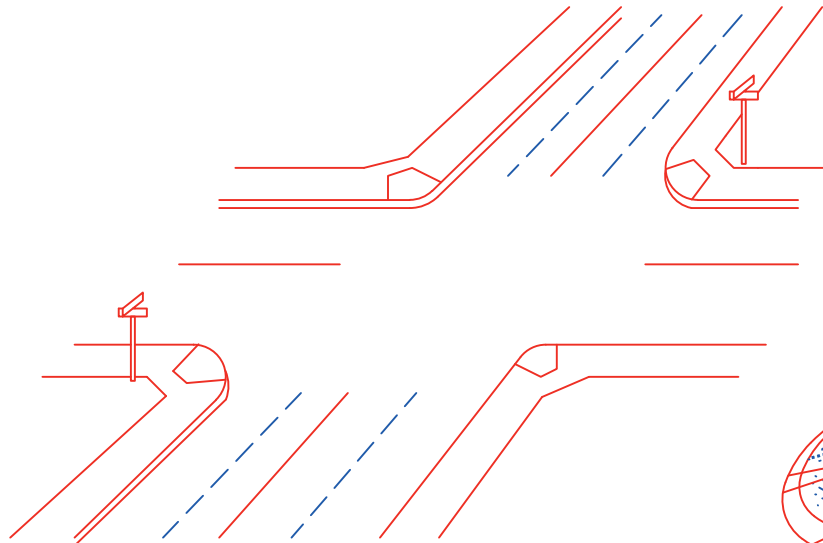


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REVISED:  
MAR. 2020  
REF. STD. DWG.:

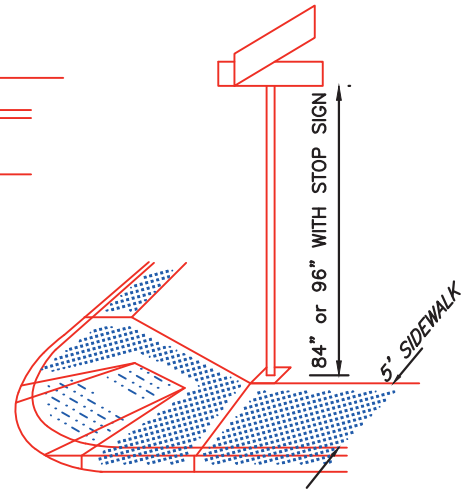
**SURVEY MONUMENT  
DETAILS**

*CITY OF REEDLEY*

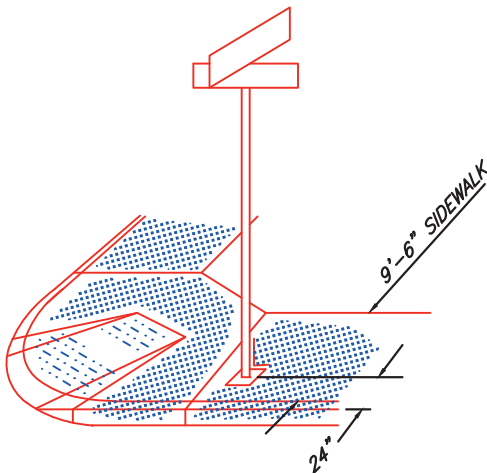
**ST-42**



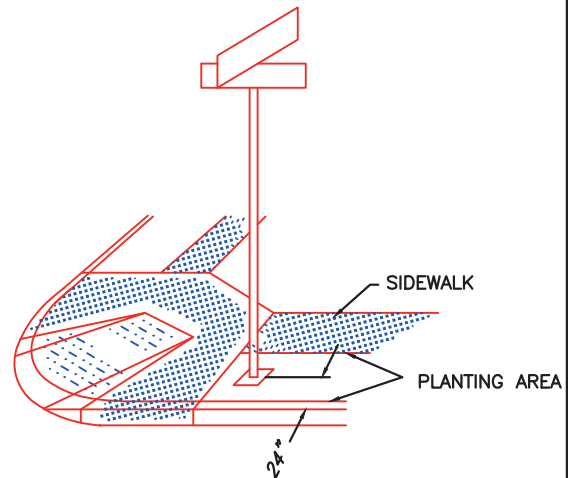
LOCATION AT INTERSECTION



LOCATION IN 5' MONOLITHIC SIDEWALK



LOCATION IN FULL WIDTH SIDEWALK



LOCATION IN PLANTING STRIP

NOTES:

1. CORNER FOR INSTALLATION SHALL BE AS DESIGNATED BY THE CITY ENGINEER.
2. SAWCUT REQUIRED IF SIGN INSTALLED AFTER SIDEWALK IS POURED.
3. WHEN INSTALLED IN SIDEWALK, POLES WILL BE SET PRIOR TO SIDEWALK POUR.
4. SAME PIPE FOR STOP SIGN AND STREET NAME SIGN MAY BE UTILIZED WHERE APPROVED.



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REVISED:  
MAR. 2020

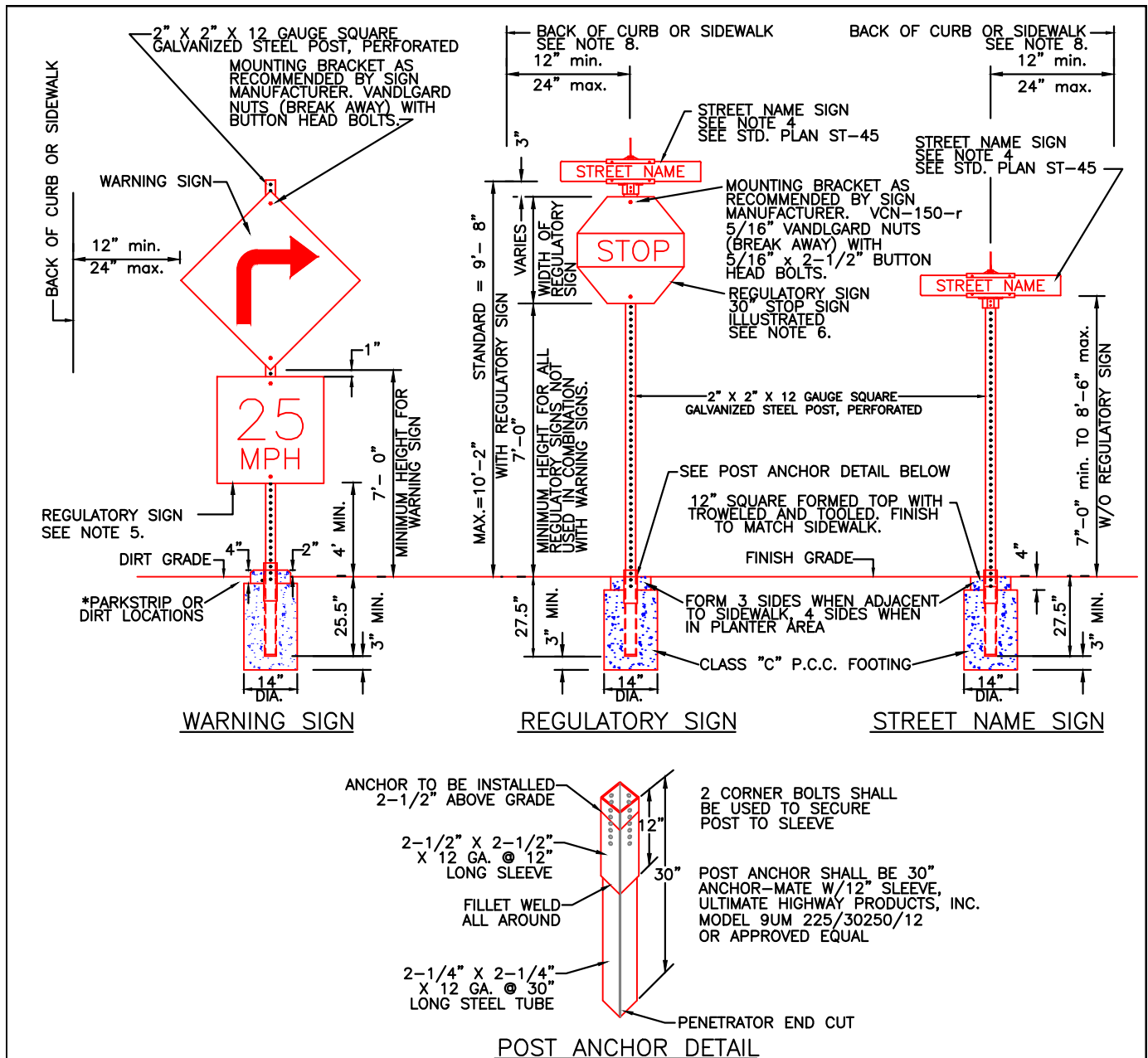
REF. STD. DWG.:  
ST-43 & 45

## STREET SIGN LOCATION

*CITY OF REEDLEY*

**ST-43**





#### NOTES:

1. ALL SIGNS, POST, HARDWARE, MOUNTING BRACKETS & INCIDENTALS SHALL BE SUPPLIED, ASSEMBLED AND INSTALLED COMPLETE AND IN ACCORDANCE WITH THIS STANDARD PLAN, THE STANDARD SPECIFICATIONS AND THE CALTRANS SPECIFICATIONS AND THE STATE OF CALIFORNIA, MUTCD, LATEST EDITION.
2. ALL SIGN LOCATION SHALL BE DETERMINED BY THE CITY ENGINEER. FORM & EDGE 12" X 12" CONCRETE APRON 4" THICK WHEN INSTALLED IN PARKSTRIP OR DIRT LOCATIONS.
3. REGULATORY AND WARNING SIGNS SHALL BE PROVIDED AND INSTALLED COMPLETE AND IN PLACE AS REQUIRED BY THE CITY ENGINEER.
4. STREET NAME SIGN MAY BE PLACED ON A REGULATORY SIGN POST ONLY WHERE APPROVED IN ADVANCE BY THE CITY ENGINEER.
5. REGULATORY SIGN MAY BE PLACED ON A WARNING SIGN POST ONLY WHERE APPROVED IN ADVANCE BY THE CITY ENGINEER.
6. A 36-INCH SIZE STOP SIGN MAY BE REQUIRED IN SPECIAL SITUATIONS AS DETERMINED BY THE CITY ENGINEER.
7. ALL STEEL POST AND MOUNTING BRACKETS AND HARDWARE SHALL BE GALVANIZED AS SPECIFIED IN THIS PLAN AND IN ACCORDANCE WITH SECTION 75-1.05 OF THE CALTRANS SPECIFICATIONS.
8. FOR STREET SIGN LOCATION, REFER TO THE CITY OF REEDLEY STANDARD PLAN ST-43.
9. ALL TRAFFIC SIGNS SHALL BE 0.08 INCH THICK ALUMINUM; FACE SHALL HAVE A 3M DIAMOND GRADE DG3 REFLECTIVE SHEETING, 3M ELECTRO CUT FILM, AND 3M #1160 GRAFFITI FILM, OR APPROVED EQUAL.



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REVISED:  
JAN. 2022

REF. STD. DWG.:  
ST-43 & 45

## SIGN INSTALLATION

CITY OF REEDLEY

ST-44

BACKGROUND COLOR:  
ENGINEER GRADE  
REFLECTIVE GREEN

LETTER COLOR:  
REFLECTIVE WHITE

SUFFIX AND BLOCK NUMBER  
SHALL BE 2" U.C.



6" WIDE x VARIABLE LENGTH  
(24" MINIMUM), 0.080" GAUGE  
ALUMINUM FLAT BLADE  
DOUBLE FACED, ENGINEER  
GRADE REFLECTIVE SHEETING.



SIZES:  
STD. LENGTHS - 24", 30" OR 36"

## LEGEND FOR NAME PLATE

## NAME PLATE

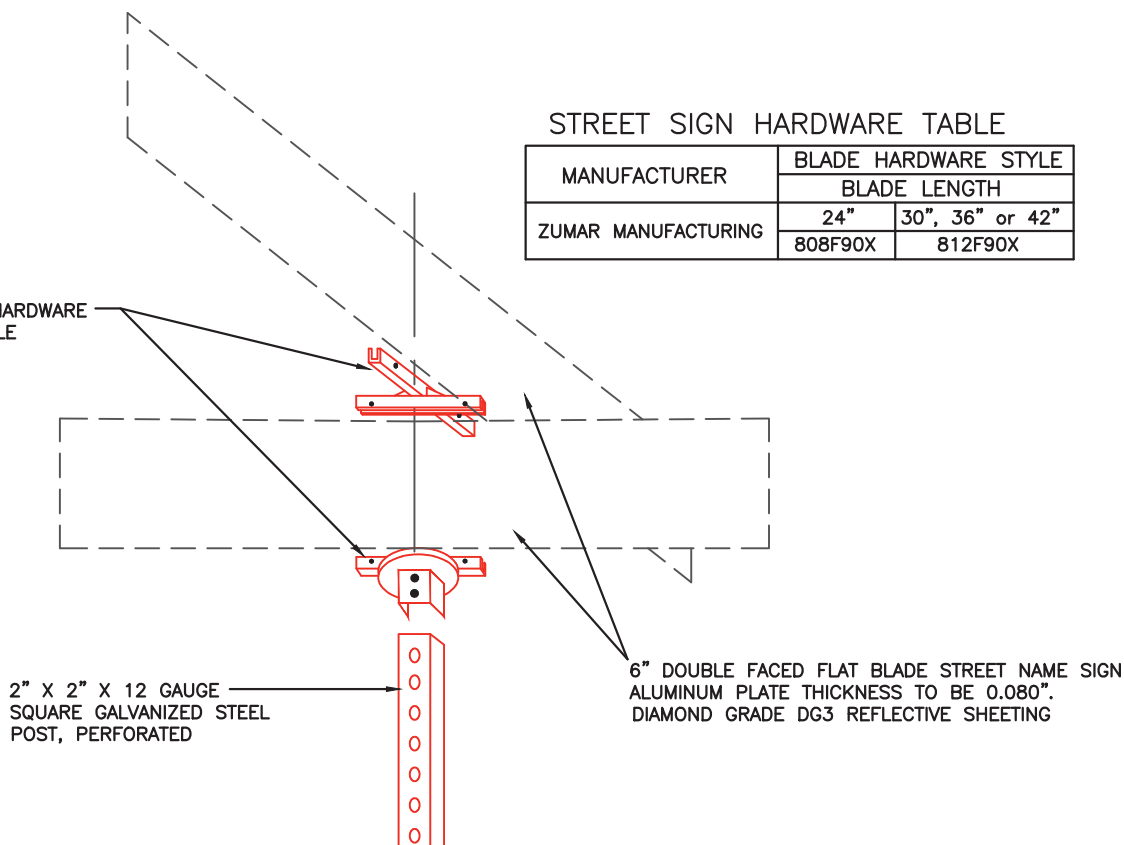
### NOTES FOR 6" STREET NAME SIGNS:

1. STREET NAMES SHALL BE 4 INCH UPPER CASE, FOLLOWED BY 3 INCH LOWERCASE FHWA SERIES C2000EX. ALL OTHER LETTERING SHALL BE 2 INCH FHWA SERIES D2000EX.
2. STREET NAME AND ADDRESS 1 INCH SPACE FROM EACH END.  
STREET NAME 1 INCH SPACE TOP AND BOTTOM.
3. STREET ADDRESS AND STREET SUFFIX 3/4" SPACE TOP AND BOTTOM.
4. LETTERING SHALL BE WHITE REFLECTIVE (3M DIAMOND GRADE DG3)  
BACKGROUND SHALL BE ELECTRO CUTTABLE (3M 1177C) WITH 1/2 INCH CORNER ROUNING

## STREET SIGN HARDWARE TABLE

MANUFACTURER	BLADE HARDWARE STYLE	
	BLADE LENGTH	
ZUMAR MANUFACTURING	24"	30", 36" or 42"
	808F90X	812F90X

STREET SIGN HARDWARE  
REFER TO TABLE



## DOUBLE FACED STREET NAME SIGN HOLDER ASSEMBLY

### NOTE:

ALL STEEL BRACKETS AND HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH SECTION 75-1.05 OF THE CALTRANS SPECIFICATIONS.



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MAR. 2020

REF. STD. DWG.:

## STREET NAME SIGNS

*CITY OF REEDLEY*

**ST-45**

BACKGROUND COLOR:  
REFLECTIVE GREEN

LETTER COLOR:  
REFLECTIVE WHITE

SUFFIX AND BLOCK NUMBER  
SHALL BE 3" U.C.



9" WIDE x VARIABLE LENGTH  
(24" MINIMUM), 0.080" GAUGE  
ALUMINUM FLAT BLADE  
DOUBLE FACED, ENGINEER  
GRADE REFLECTIVE SHEETING.



SIZES:  
STD. LENGTHS - 24", 30", 36" OR 42"

### LEGEND FOR NAME PLATE

### NAME PLATE

#### NOTES FOR 9" STREET NAME SIGNS:

1. USE 9" STREET NAME SIGN WHEN POST MOUNTED 2-LANE ROADWAYS OR MULTILANE POSTED LESS THAN 40 MPH.
2. STREET NAMES SHALL BE 6 INCH UPPER CASE, FOLLOWED BY 4.5 INCH LOWERCASE FHWA SERIES C2000EX. ALL OTHER LETTERING SHALL BE 3 INCH FHWA SERIES D2000EX.
3. STREET NAME AND ADDRESS 1 INCH SPACE FROM EACH END. STREET NAME 1.5 INCH SPACE TOP AND BOTTOM.
4. STREET ADDRESS AND STREET SUFFIX 1" SPACE TOP AND BOTTOM.
5. LETTERING SHALL BE WHITE REFLECTIVE (3M DIAMOND GRADE DG3) BACKGROUND SHALL BE ELECTRO CUTTABLE (3M 1177C) WITH 1/2 INCH CORNER ROUNDING.

BACKGROUND COLOR:  
REFLECTIVE GREEN

LETTER COLOR:  
REFLECTIVE WHITE

SUFFIX AND BLOCK NUMBER  
SHALL BE 4" U.C.



12" WIDE x VARIABLE LENGTH  
(24" MINIMUM), 0.080" GAUGE  
ALUMINUM FLAT BLADE  
DOUBLE FACED, ENGINEER  
GRADE REFLECTIVE SHEETING.



SIZES:  
STD. LENGTHS - 24", 30", 36", 42" OR 48"

### LEGEND FOR NAME PLATE

### NAME PLATE

#### NOTES FOR 12" STREET NAME SIGNS:

1. USE 12" STREET NAME SIGN WHEN POST MOUNTED MULTILANE POSTED 40 MPH OR MORE.
2. STREET NAMES SHALL BE 8 INCH UPPER CASE, FOLLOWED BY 6 INCH LOWERCASE FHWA SERIES C2000EX. ALL OTHER LETTERING SHALL BE 4 INCH FHWA SERIES D2000EX.
3. STREET NAME AND ADDRESS 1 INCH SPACE FROM INSIDE BORDER EDGE. STREET NAME VERTICALLY CENTERED.
4. STREET ADDRESS AND STREET SUFFIX OFFSET 1-3/4" TOP AND BOTTOM.
5. LETTERING SHALL BE WHITE REFLECTIVE (3M DIAMOND GRADE DG3) BACKGROUND SHALL BE ELECTRO CUTTABLE (3M 1177C) WITH 3/4 INCH CORNER ROUNDING.

BACKGROUND COLOR:  
REFLECTIVE GREEN

LETTER COLOR:  
REFLECTIVE WHITE

SUFFIX AND BLOCK NUMBER  
SHALL BE 6" U.C.



21" WIDE x VARIABLE LENGTH  
(30" MINIMUM), 0.080" GAUGE  
ALUMINUM FLAT BLADE  
DOUBLE FACED, ENGINEER  
GRADE REFLECTIVE SHEETING.



SIZES:  
STD. LENGTHS - 30", 36", 42" OR 48"

### LEGEND FOR NAME PLATE

### NAME PLATE

#### NOTES FOR 21" STREET NAME SIGNS:

1. USE 21" STREET NAME SIGN WHEN POST MOUNTED ARTERIAL ROADS.
2. STREET NAMES SHALL BE 12 INCH UPPER CASE, FOLLOWED BY 9 INCH LOWERCASE FHWA SERIES C2000EX. ALL OTHER LETTERING SHALL BE 6 INCH FHWA SERIES D2000EX.
3. STREET NAME AND ADDRESS 2 INCH SPACE FROM INSIDE BORDER EDGE. STREET NAME VERTICALLY CENTERED.
4. STREET ADDRESS AND STREET SUFFIX OFFSET 1" TOP AND BOTTOM.
5. LETTERING SHALL BE WHITE REFLECTIVE (3M DIAMOND GRADE DG3) BACKGROUND SHALL BE ELECTRO CUTTABLE (3M 1177C) WITH 1 INCH CORNER ROUNDING

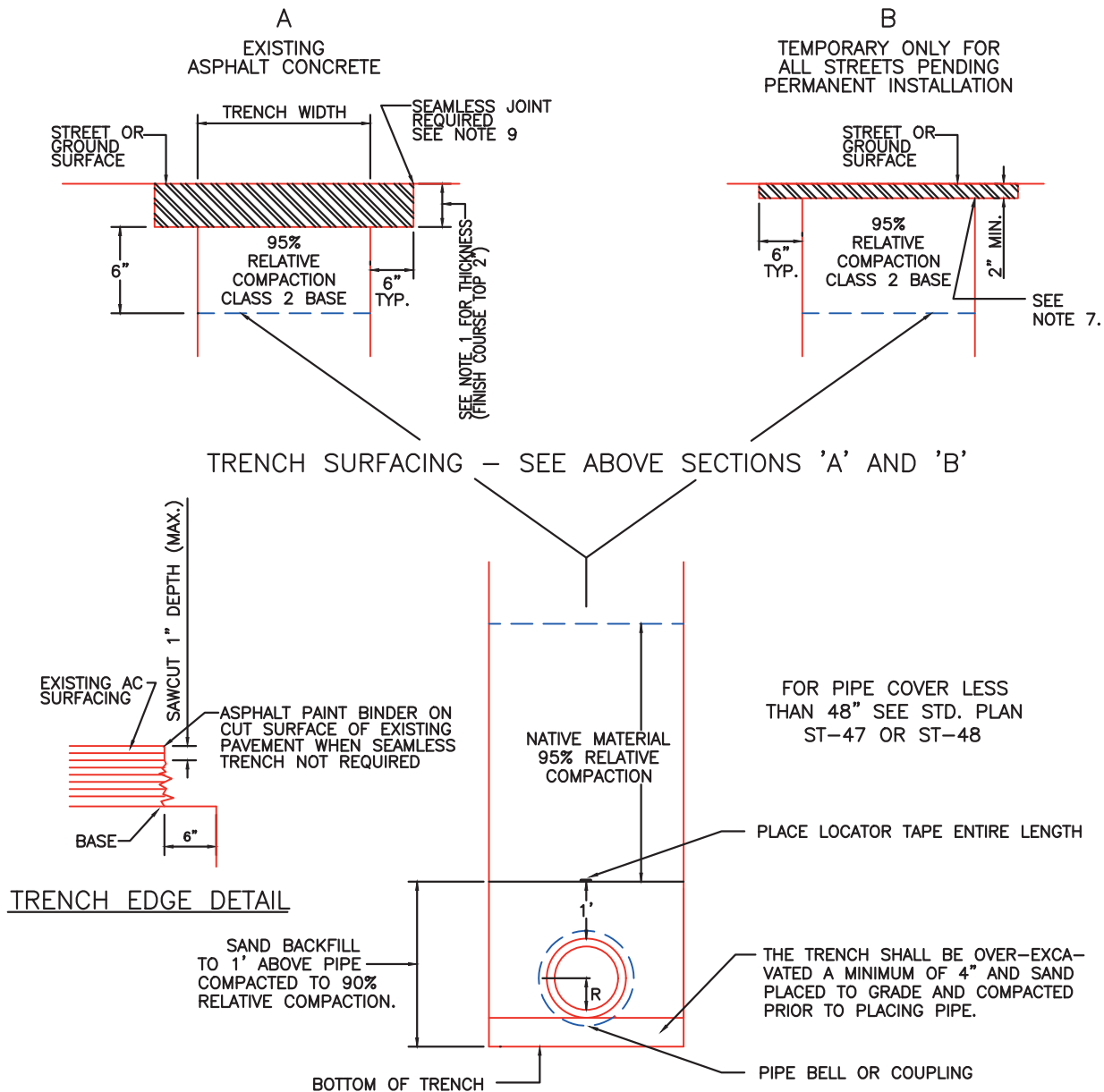


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REF. STD. DWG.:

## STREET NAME SIGNS 9", 12" & 21"

*CITY OF REEDLEY*

**ST-45A**



**NOTES:**

1. AC SHALL BE 7" THICK FOR MAJOR ARTERIALS, ARTERIALS AND COLLECTORS. AC SHALL BE 5" THICK FOR LOCAL STREETS.
2. TWO INCH (2") MINIMUM THICKNESS OF TEMPORARY RESURFACING AS SHOWN ON SECTION "B", SHALL BE INSTALLED IMMEDIATELY ON BACKFILLED TRENCHES IN ALL STREETS.
3. NO TRAFFIC SHALL BE ALLOWED TO CROSS OVER BACKFILLED TRENCHES IN THE ROADWAY PRIOR TO PLACEMENT OF TEMPORARY ASPHALT SURFACING AS SHOWN IN SECTION "B".
4. CALIFORNIA TEST METHOD NO. 216 SHALL BE USED TO DETERMINE ALL PERCENTAGES OF RELATIVE COMPACTION.
5. AC = ASPHALT CONCRETE
6. THE PAVEMENT SECTIONS SHOWN ABOVE ARE MINIMUM ONLY. IF THE EXISTING STRUCTURAL SECTION IS GREATER, IT SHALL BE MATCHED UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.
7. CUT BACK OR COLD MIX TO BE REMOVED PRIOR TO FINAL PAVING. REFER TO SEC. 12-6F, SEC. 15-3 OF THE CITY OF REEDLEY STANDARD SPECIFICATIONS.
8. A TACK COAT SHALL BE APPLIED TO THE ASPHALT CONCRETE VERTICAL EDGE OF TRENCH WALL PRIOR TO PLACEMENT OF FINAL ASPHALT SURFACING.
9. ALL CUTS IN EXISTING PAVEMENT THAT IS LESS THAN 8 YEARS OLD OR AS DIRECTED BY THE CITY ENGINEER SHALL BE REQUIRED TO HAVE SEAMLESS JOINTS WITH THE EXISTING PAVEMENT BY USING A HEATER-REMIX PROCESS.
10. MANHOLE & WATER VALVE RAISING ASSOCIATED WITH NEW STREET CONSTRUCTION IS NOT REQUIRED TO FOLLOW NOTE No. 9.
11. STREET CUTS SHALL BE MADE PARALLEL OR AT RIGHT ANGLES TO THE CENTERLINE OF THE STREET.
12. ALL WORKMANSHIP AND MATERIALS SHALL CONFORM TO THE REQUIREMENTS SET FORTH IN THE CURRENT EDITION OF THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS".



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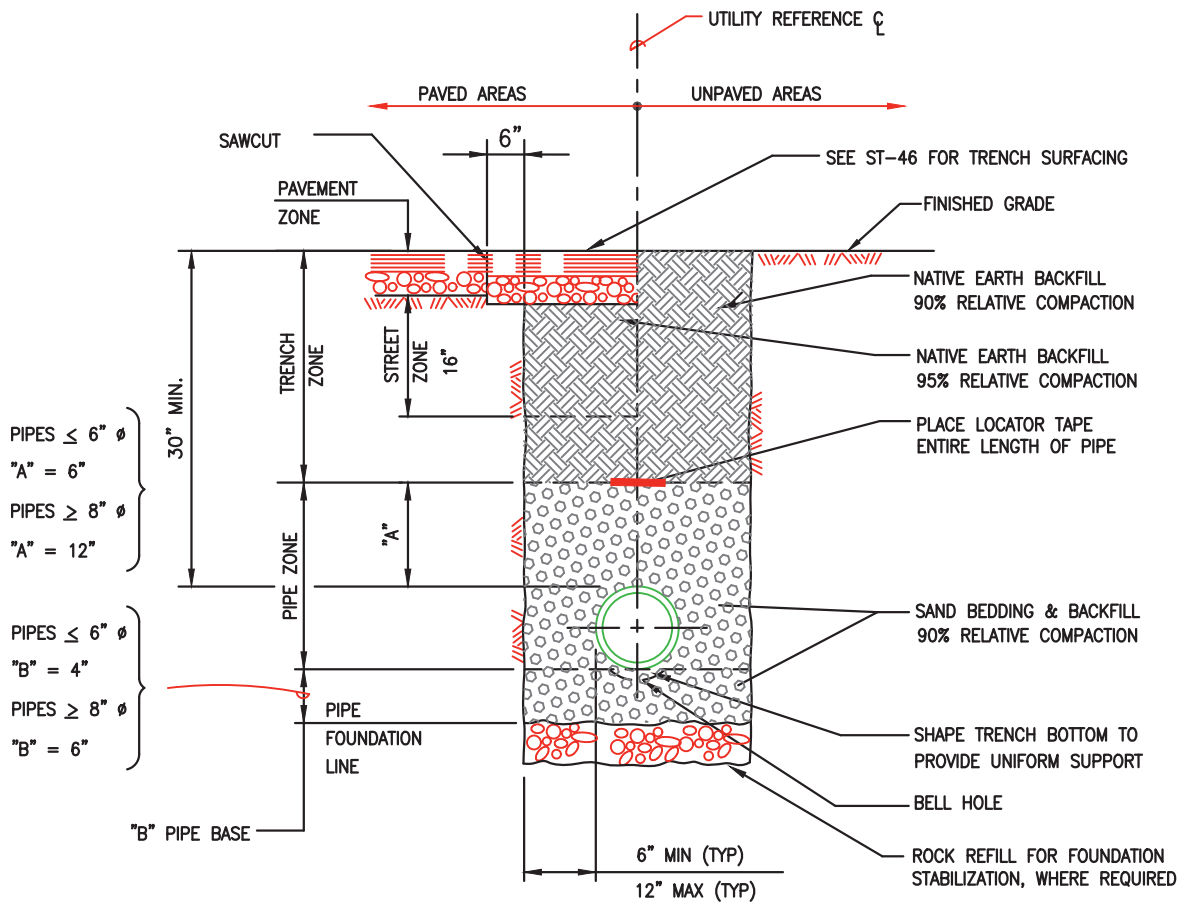
REVISED:  
MAR. 2020

REF. STD. DWG.:  
ST-47 & 48

## TRENCH BACKFILL AND SURFACE REPLACEMENT

*CITY OF REEDLEY*

**ST-46**



**NOTES:**

1. TRENCH WALL SHOWN VERTICAL FOR CLARITY, EXCAVATE PER OSHA REQUIREMENTS.
2. USE THE SAME DETAIL FOR SERVICE LATERALS. REDUCE THICKNESS OF STREET ZONE AS REQUIRED TO HOLD OTHER DIMENSIONS AS SHOWN.



SCALE:  
NOT TO SCALE

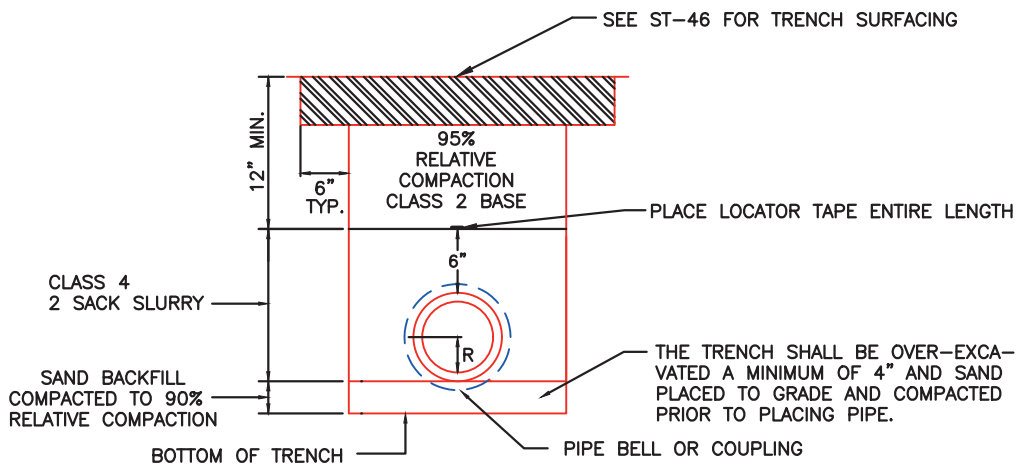
REVISED:  
MAR. 2020

REF. STD. DWG.:  
ST-46

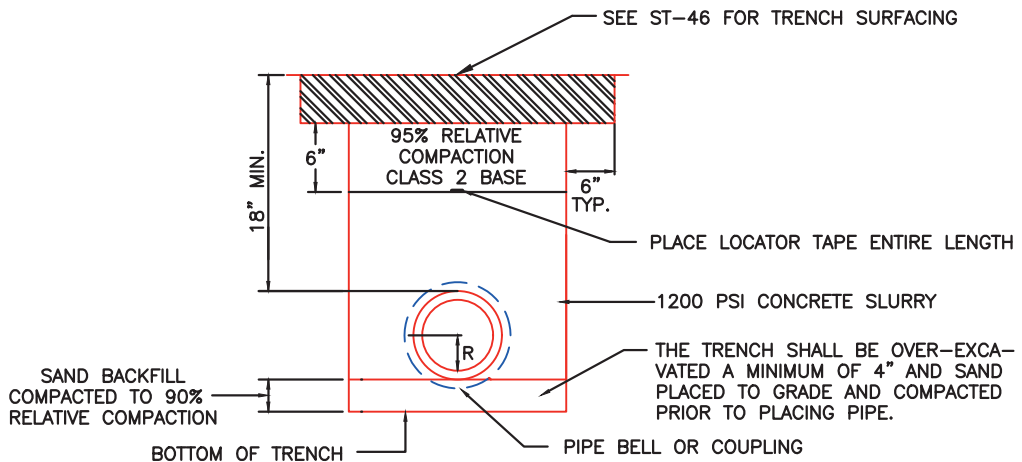
## TRENCH DETAIL FOR COVER LESS THAN 48"

*CITY OF REEDLEY*

**ST-47**



OPTION 1



OPTION 2

NOTES:

1. PIPE CONCRETE BACKFILL SHALL BE REQUIRED FOR ALL PIPE INSTALLED WITH LESS THAN 30" OF COVER OR AS DIRECTED BY THE CITY ENGINEER.
2. ALL CONCRETE BACKFILL SHALL BE 1200 PSI CONCRETE.
3. CONCRETE BACKFILL SHALL BE PLACED IN THE TRENCH AGAINST UNDISTURBED SOIL AND SHALL BE PLACED IN A MANNER THAT WILL PREVENT FLOATING OR SHIFTING OF THE PIPE.
4. FOREIGN MATERIAL WHICH FALLS INTO THE TRENCH DURING PLACEMENT OF THE CONCRETE SHALL BE IMMEDIATELY REMOVED.
5. NO MATERIAL SHALL BE PLACED ON TOP OF THE CONCRETE BACKFILL UNTIL 8 HOURS AFTER PLACING THE CONCRETE BACKFILL.

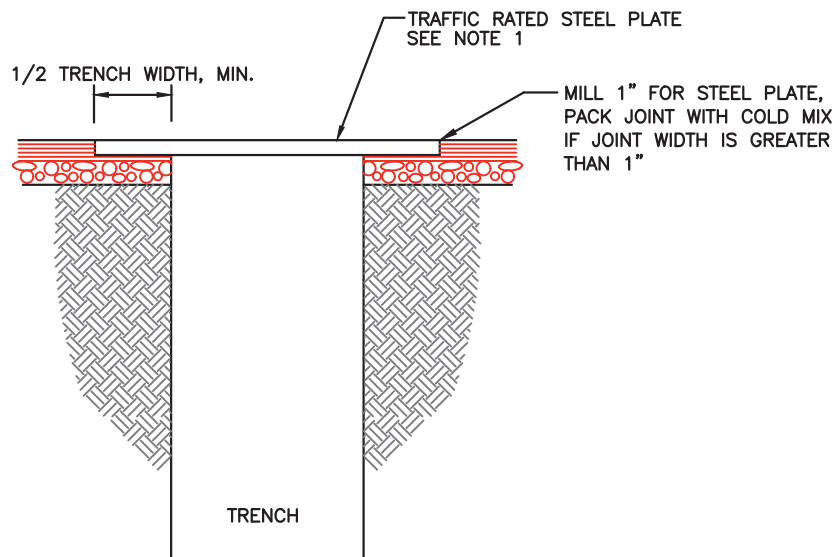


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REVISED:  
MAR. 2020  
REF. STD. DWG.:

## TRENCH DETAIL FOR COVER LESS THAN 30"

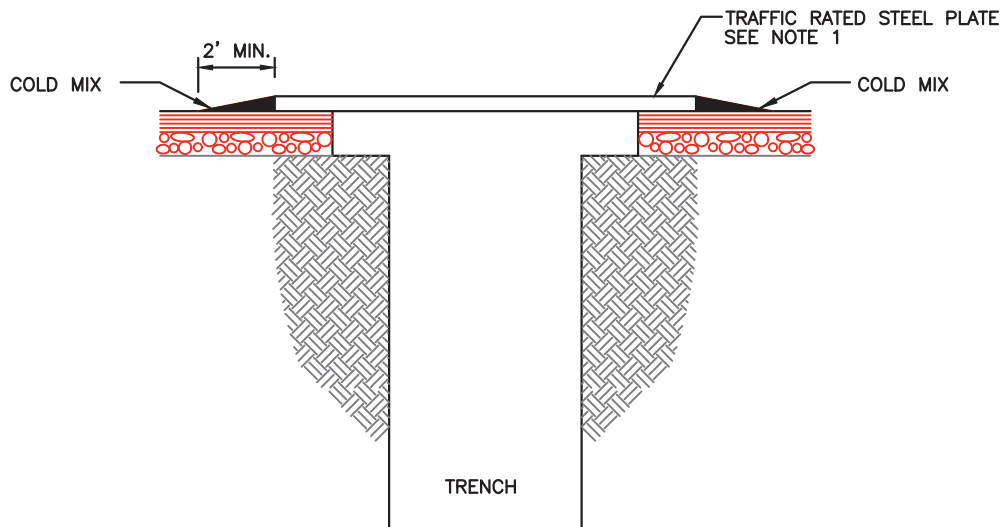
*CITY OF REEDLEY*

**ST-48**



### TYPE 'A' PLATING

CITY POSTED SPEEDS OF  
GREATER THAN 25 MPH  
OR BUS & TRUCK ROUTE



### TYPE 'B' PLATING

CITY POSTED SPEEDS OF  
25 MPH AND UNDER

#### NOTES:

1. THE CONTRACTOR SHALL PROVIDE ADEQUATE OVERLAP OF PLATE ON ASPHALT TO ASSURE NO SLIPPAGE OF PLATE AND NO COLLAPSING OF TRENCH.
2. "POSTED SPEED" DOES NOT INCLUDE TEMPORARY CONSTRUCTION SIGNING.



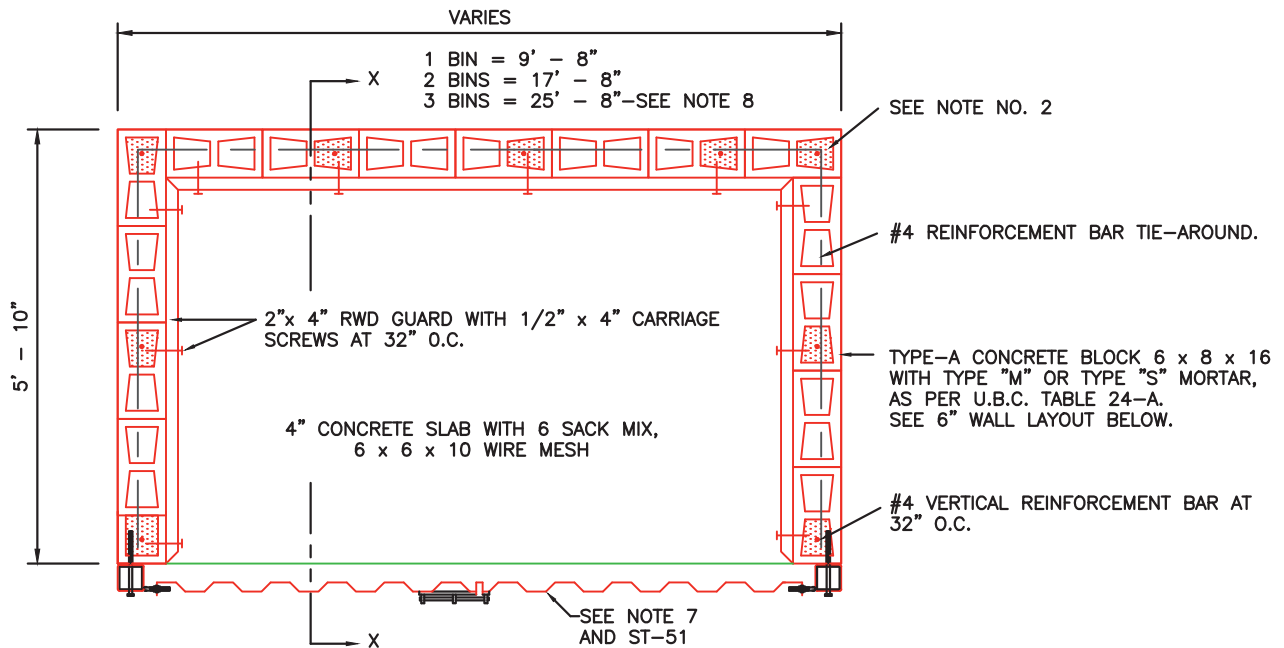
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REVISED:  
MAR. 2020  
REF. STD. DWG.:

## TRENCH PLATE DETAILS

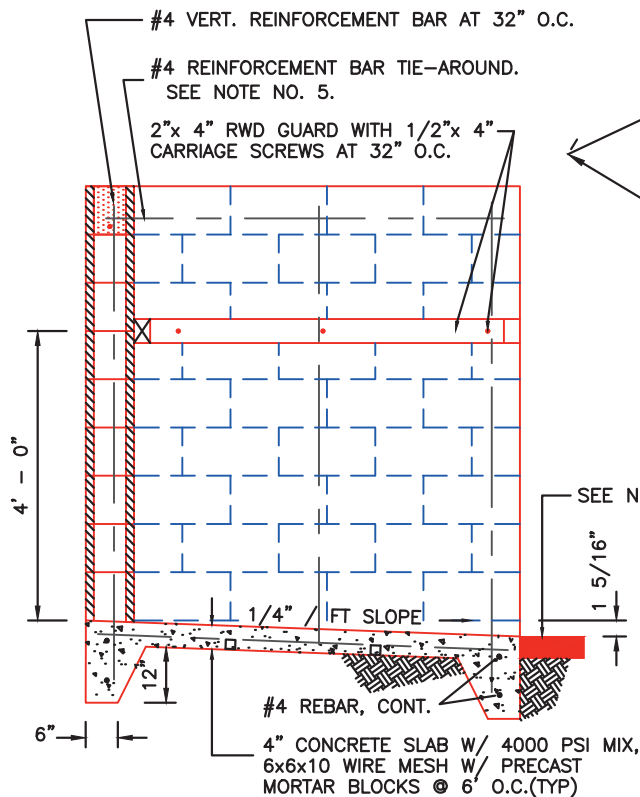
*CITY OF REEDLEY*

**ST-49**

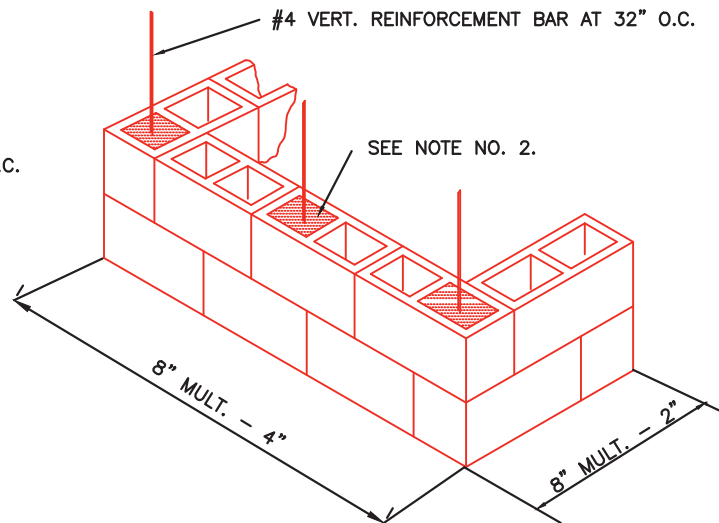




PLAN VIEW



SECTION X-X



6" WALL LAYOUT

NOTES:

1. AT TIME OF LAYING, ALL MASONRY UNITS SHALL BE FREE OF EXCESSIVE DUST AND DIRT.
2. ALL CELLS WITH REINFORCEMENT SHALL BE FILLED WITH GROUT.
3. ALL REINFORCEMENT SHALL BE PLACED PRIOR TO GROUTING.
4. ALL CONSTRUCTION SHALL CONFORM TO U.B.C. SECTION 2415.
5. TOP LAYER OF CONCRETE BLOCK FULLBEDDED WITH MORTAR.
6. CONCRETE SURFACING ON APPROACH TO OPEN SIDE AS A MINIMUM. PLACE TO TOP OF SLAB. SEE ST-53.
7. ENCLOSURE DOORS SHALL BE INSTALLED AS REQUIRED: RESIDENTIAL OR APTS. - STEEL DOORS COMMERCIAL - CHAIN LINK W/ WOOD SLATS IS ALLOWABLE
8. 3 BIN ENCLOSURE REQUIRES AN ADDITIONAL GATE.



SCALE:  
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REVISED:  
MAR. 2020

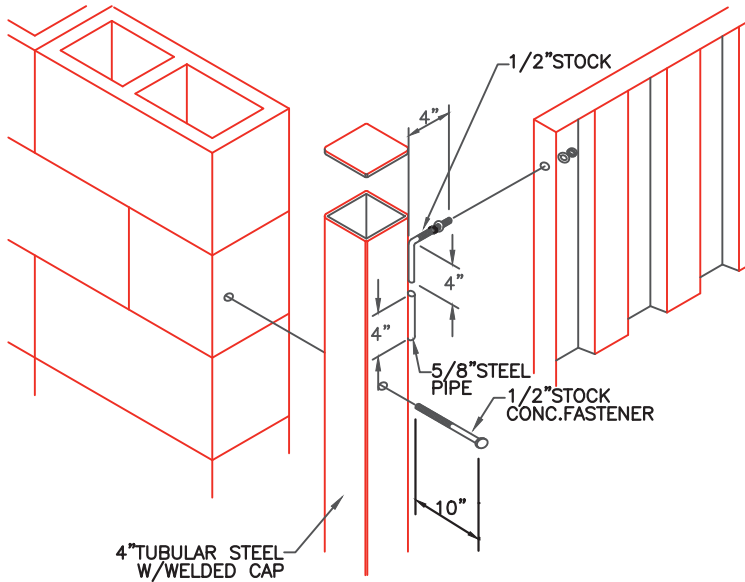
REF. STD. DWG.:  
ST-50 & 53

## TRASH BIN ENCLOSURE

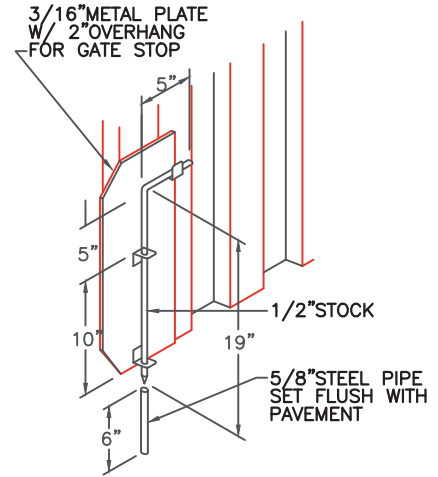
CITY OF REEDLEY

ST-50





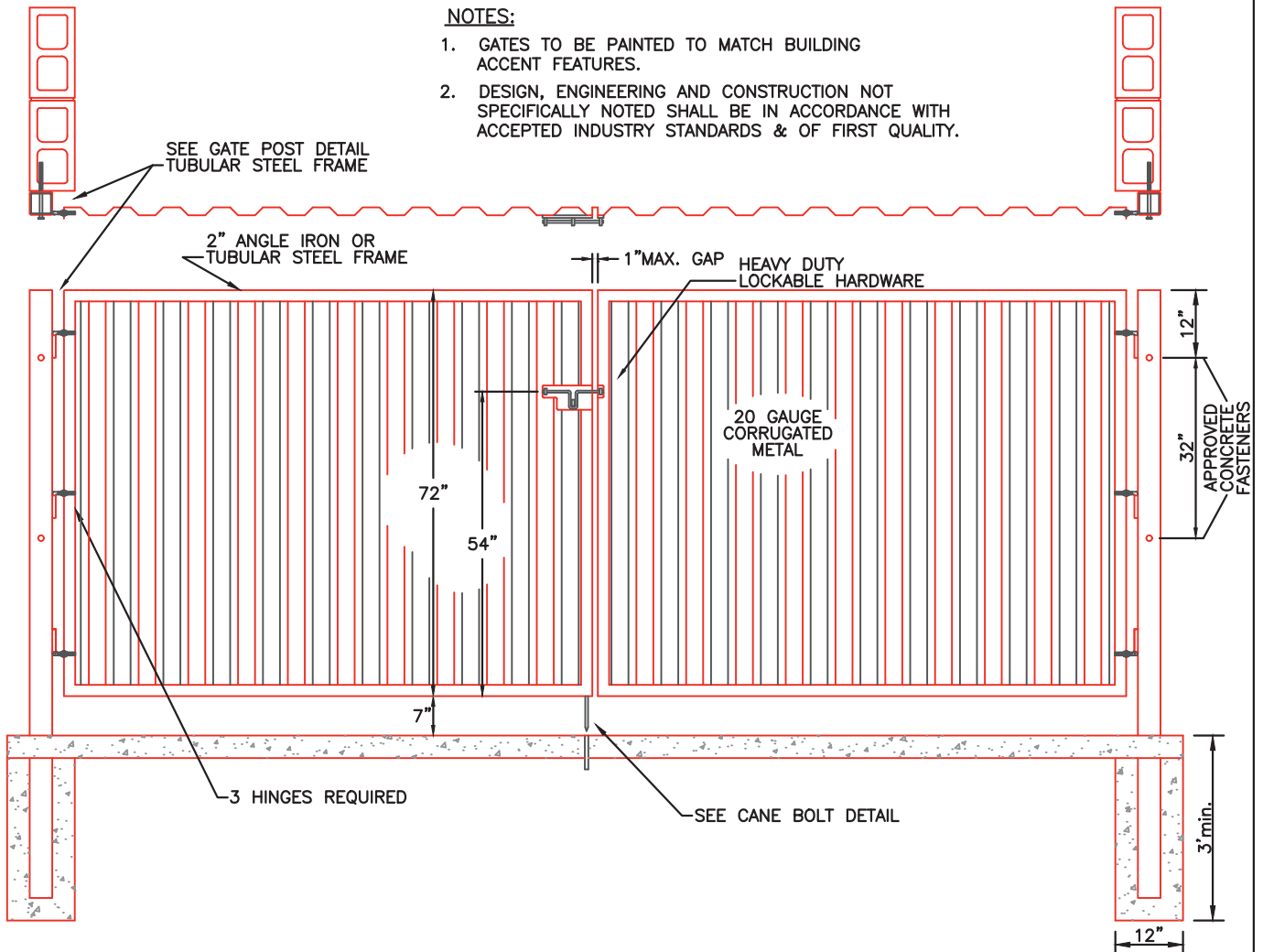
GATE POST DETAIL



CANE BOLT DETAIL

NOTES:

1. GATES TO BE PAINTED TO MATCH BUILDING ACCENT FEATURES.
2. DESIGN, ENGINEERING AND CONSTRUCTION NOT SPECIFICALLY NOTED SHALL BE IN ACCORDANCE WITH ACCEPTED INDUSTRY STANDARDS & OF FIRST QUALITY.

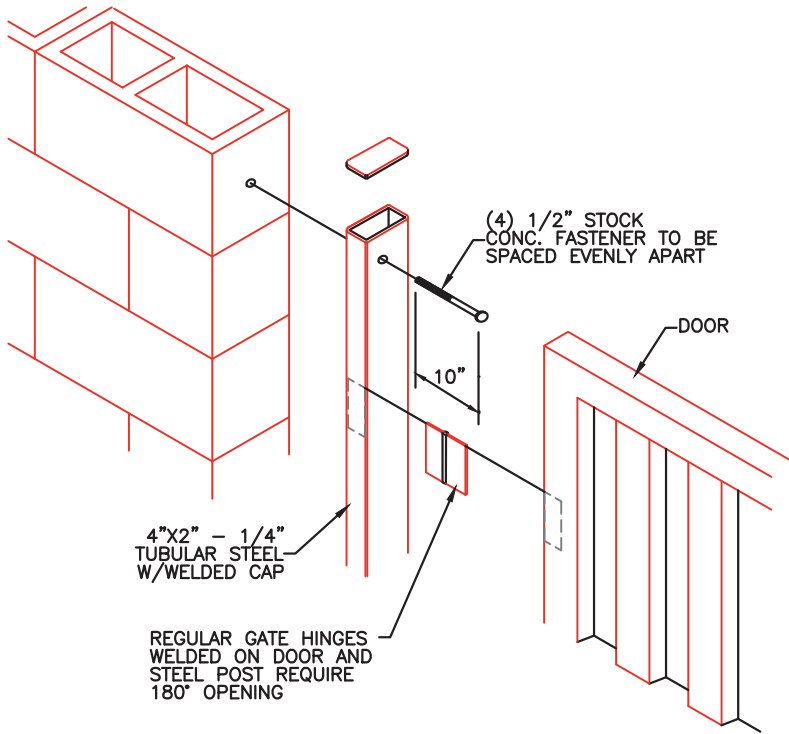


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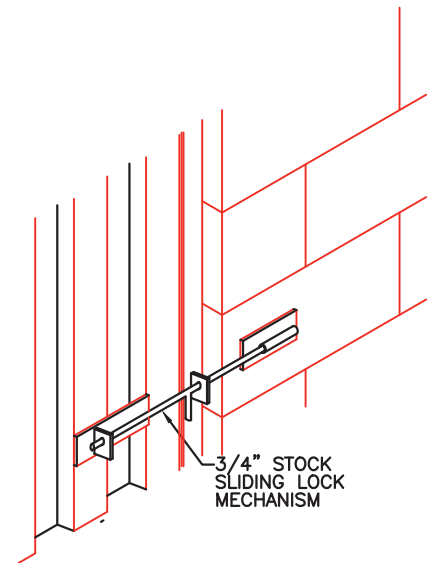
TRASH BIN ENCLOSURE  
GATE DETAILS

CITY OF REEDLEY

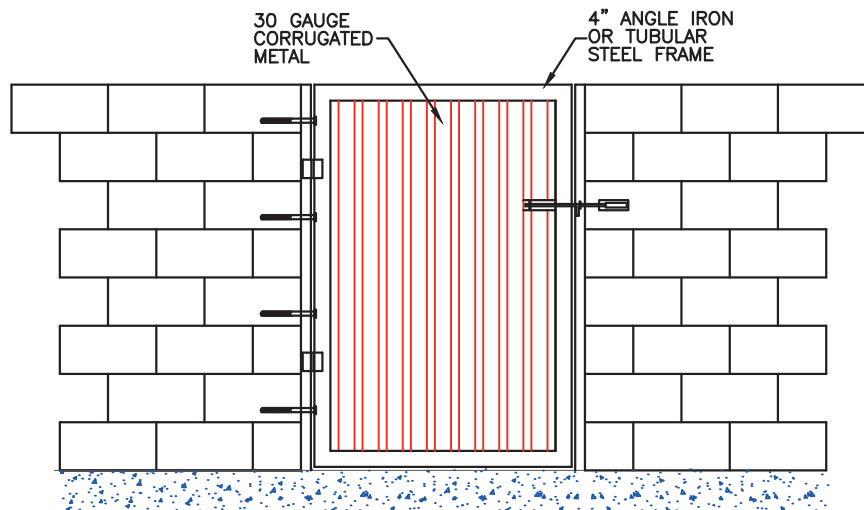
ST-51



DOOR POST DETAIL



LOCKABLE HARDWARE DETAIL

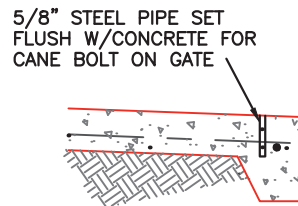
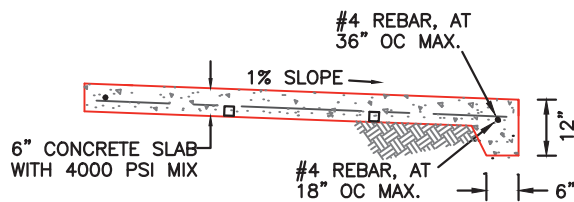
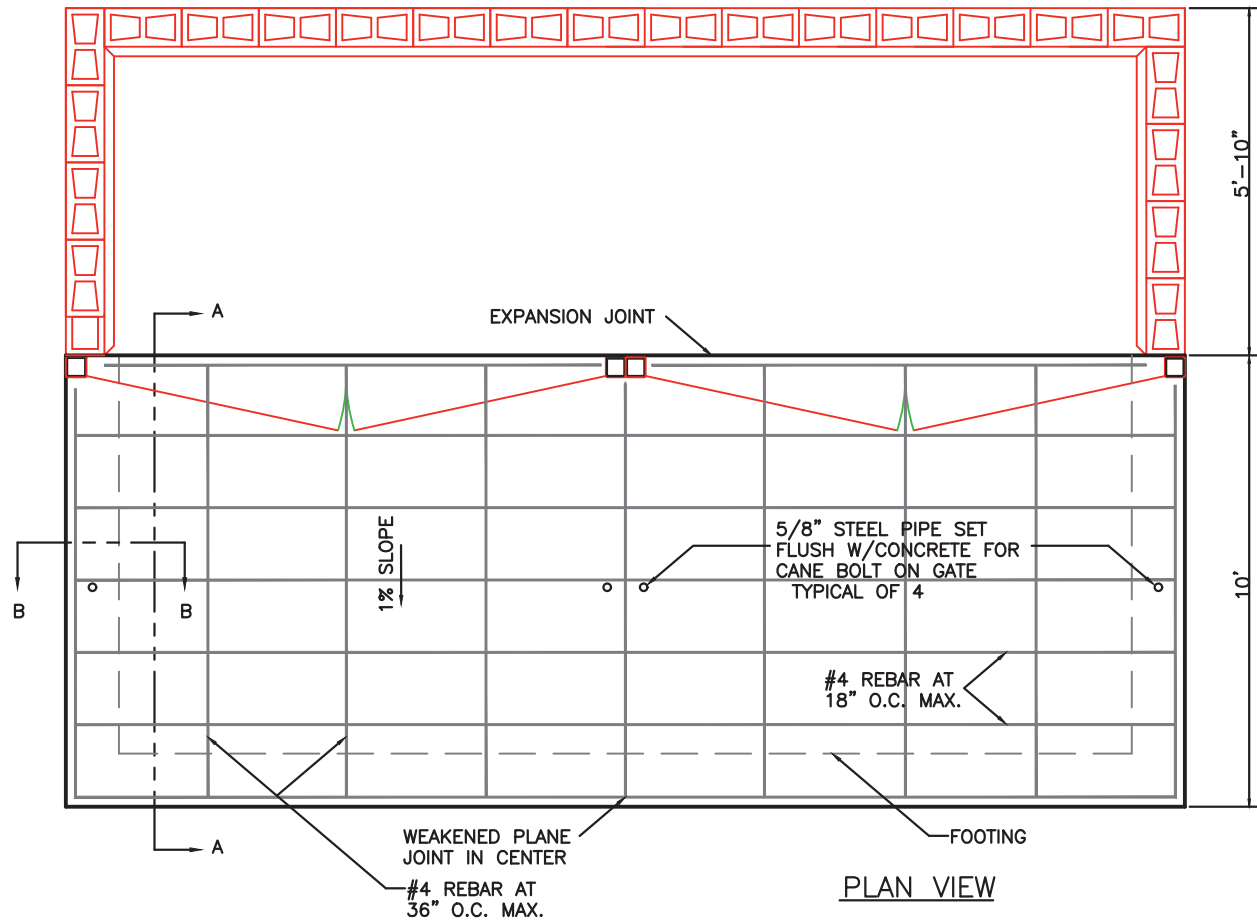


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MAR. 2020  
REF. STD. DWG.:

## TRASH BIN ENCLOSURE DOOR DETAILS

*CITY OF REEDLEY*

**ST-52**



#### NOTES:

1. ALL CONCRETE SHALL BE CLASS A, 6 SACK.
2. REBAR SHALL BE DEFORMED STEEL BARS AND SHALL BE GRADE 40 MIN. REBAR SHALL BE FREE OF RUST OR DIRT AND SHALL BE THOROUGHLY CLEANED BEFORE PLACEMENT.
3. REBAR SHALL HAVE A MINIMUM OF 2" OF CLEAR COVERAGE.
4. ALL TRASH BIN ENCLOSURES SHALL HAVE A CONCRETE APRON. ANY EXCEPTIONS REQUIRE APPROVAL BY CITY ENGINEER.
5. CONCRETE PAD SHALL BE PLACED ON MOIST AND COMPACTED BASE MATERIALS. 95% R.C.
6. STEEL PIPE LOCATION IN CONCRETE PAD SHALL BE DETERMINED BY CANE BOLT LOCATION ON GATE. SEE TRASH BIN ENCLOSURE GATE DETAILS



SCALE:  
NOT TO SCALE

REVISED:  
MAR. 2020

REF. STD. DWG.:

## TRASH BIN ENCLOSURE CONCRETE APRON DETAILS

CITY OF REEDLEY

ST-53

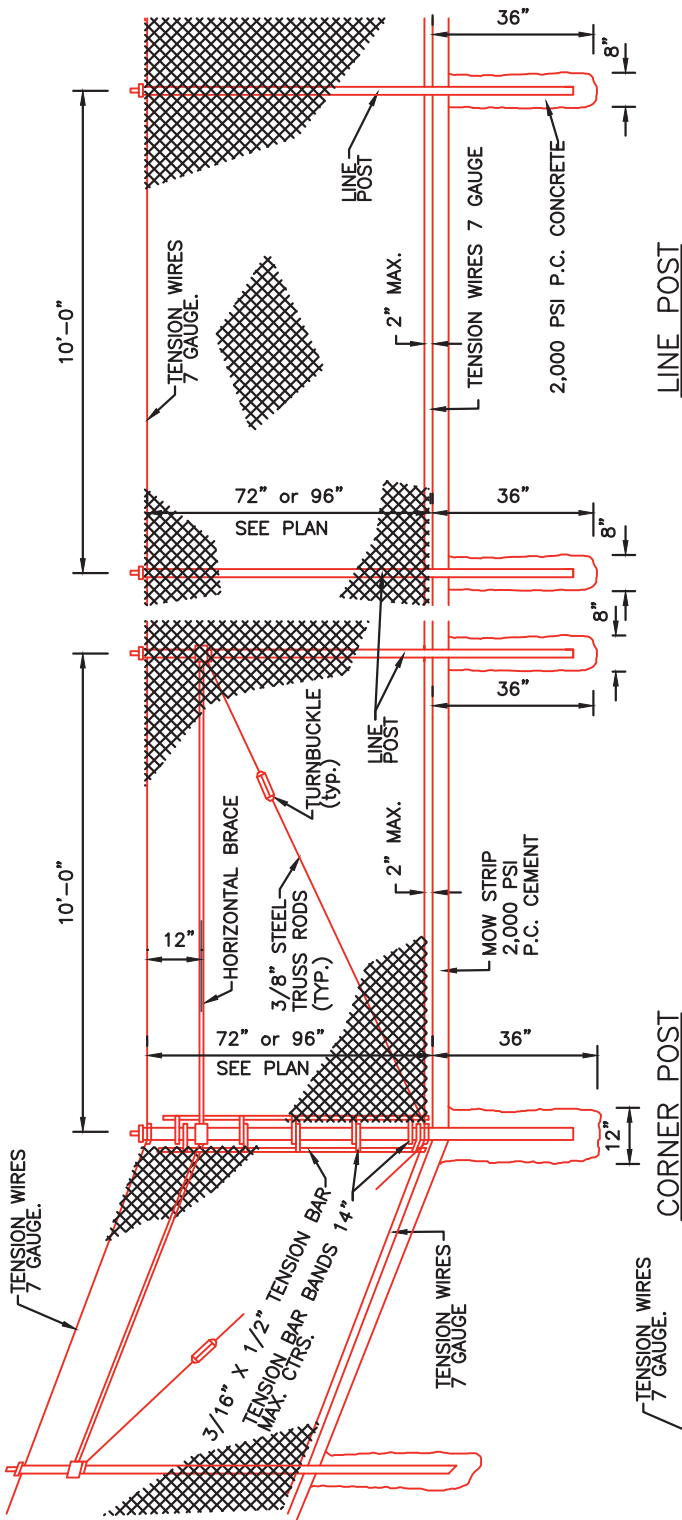


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REF. STD. DWG.:

## CHAIN LINK FENCE

CITY OF REEDLEY

ST-54



TYPE CL-6 = 72" FABRIC - 11 GAUGE  
TYPE CL-8 = 96" FABRIC - 9 GAUGE

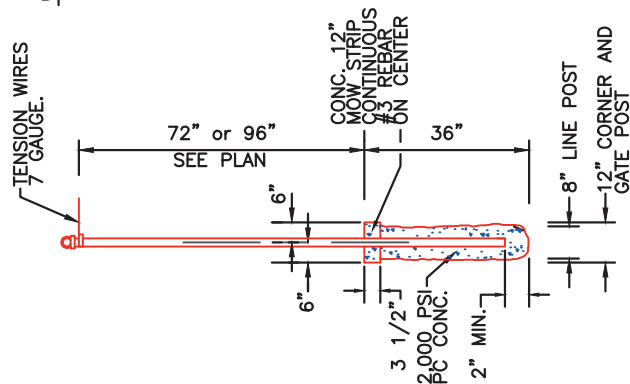
### TYPICAL MEMBER DIMENSIONS

FENCE HEIGHT	LINE POSTS		END, LATCH & CORNER POST		BRACES	
	ROUND (I.D.)	H	ROLL FORMED	ROUND (I.D.)	ROLL FORMED	ROLL FORMED
6 FT. & LESS	1 1/2"	1 7/8" X 5/8"	1 3/4" X 1 3/4"	2"	3 1/2" X 3 1/2"	1 1/2" X 1 5/16"
OVER 6 FT.	2"	2 1/4" X 2"	2" X 1 3/4"	2 1/2"	3 1/2" X 3 1/2"	1 1/2" X 1 5/16"

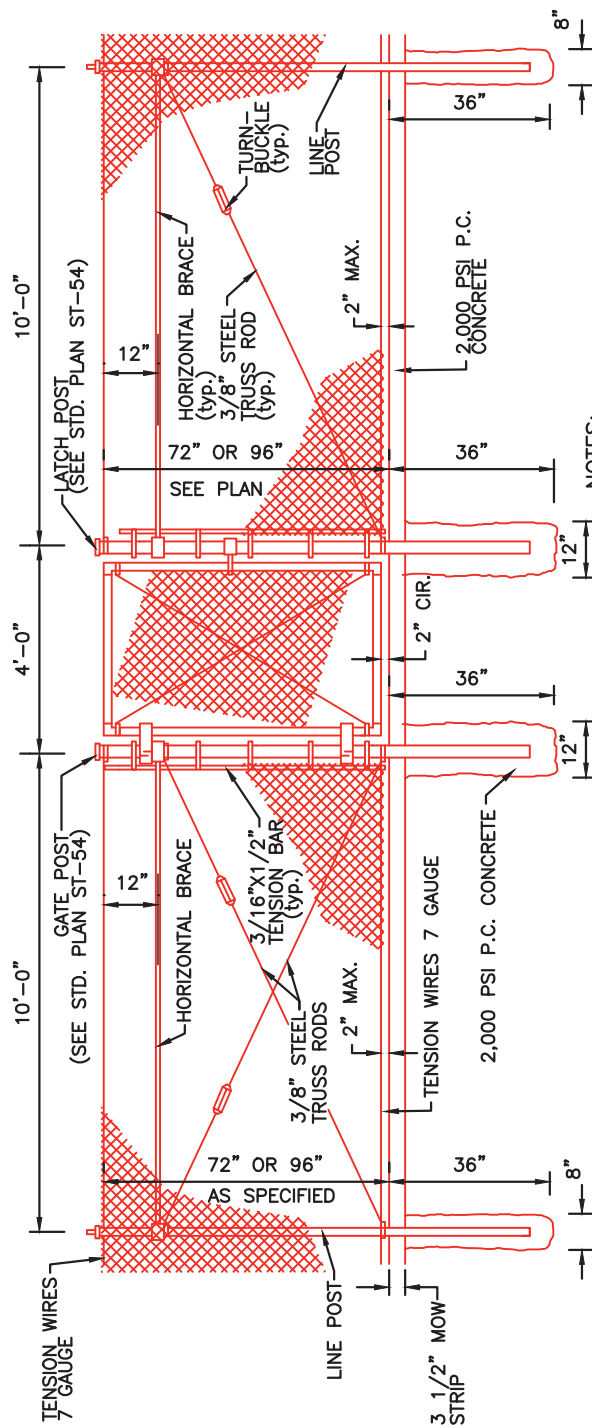
### GATE POST DIMENSIONS (SEE STD. PLAN ST-17)

FENCE HEIGHT	GATE WIDTHS	NOMINAL I.D.	WEIGHT PER FOOT
6'-0" AND LESS	UP THRU 6 FT.	2 1/2"	4.95
	OVER 6 FT. THRU 12 FT.	4"	10.79
	OVER 12 FT. THRU 18 FT.	5"	14.62
	OVER 18 FT. THRU 24 FT. MAX.	6"	18.97
OVER 6'-0"	UP THRU 6 FT.	3"	7.58
	OVER 6 FT. THRU 12 FT.	5"	14.62
	OVER 12 FT. THRU 18 FT.	6"	18.97

NOTE: ABOVE POST DIMENSIONS AND WEIGHTS ARE MINIMUMS. LARGER SIZES MAY BE USED ON APPROVAL OF THE CITY ENGINEER.



### FOOTING

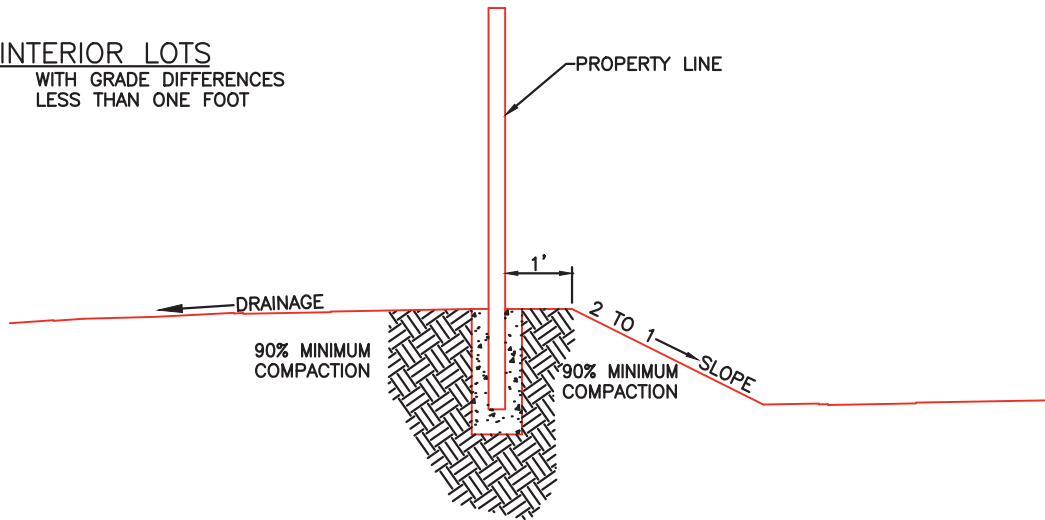


## 4' PERSONAL GATE

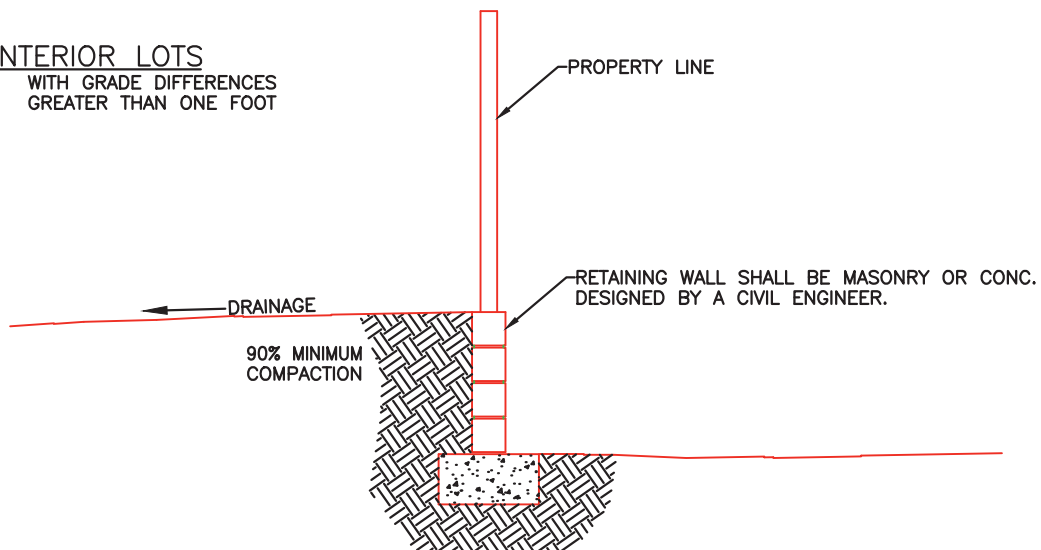
1. TUBULAR POST SHALL BE FITTED WITH RAIN PROOF TOPS.
2. GATE FRAME SHALL BE CONSTRUCTED OF NOT LESS THAN 1 1/2" PIPE AND VERT. STAY MEMBERS SHALL BE CONSTRUCTED OF NOT LESS THAN 1" PIPE.



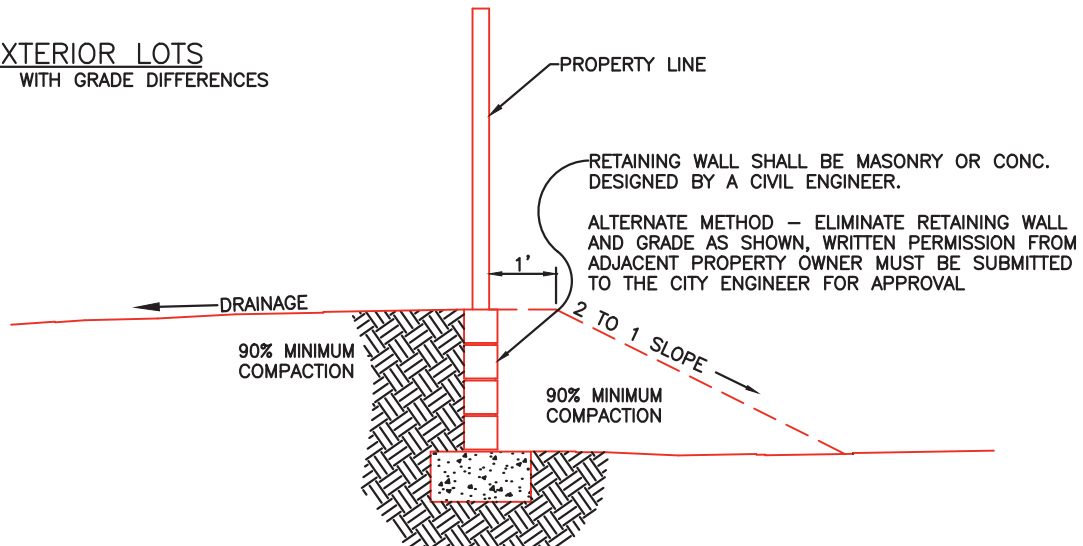
**INTERIOR LOTS**  
WITH GRADE DIFFERENCES  
LESS THAN ONE FOOT



**INTERIOR LOTS**  
WITH GRADE DIFFERENCES  
GREATER THAN ONE FOOT



**EXTERIOR LOTS**  
WITH GRADE DIFFERENCES



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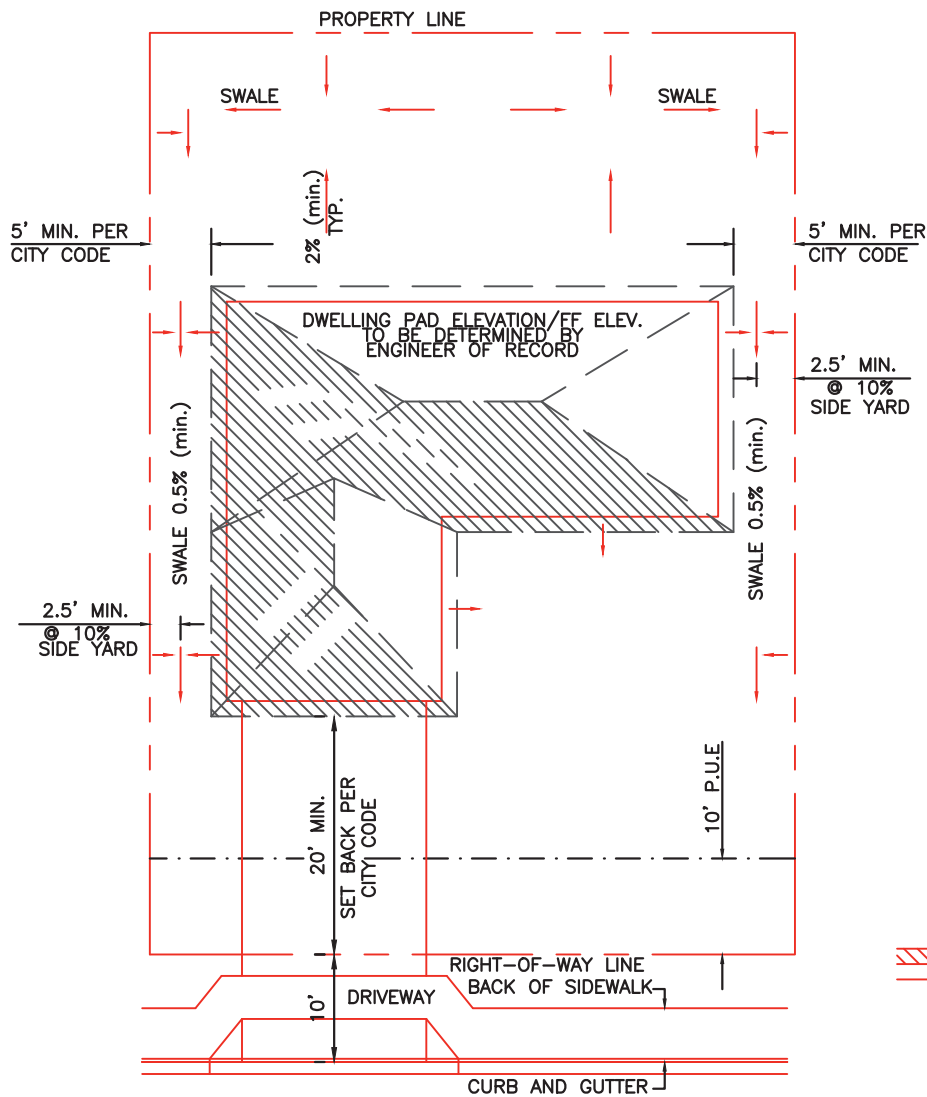
REVISED:  
MAR. 2020

REF. STD. DWG.:

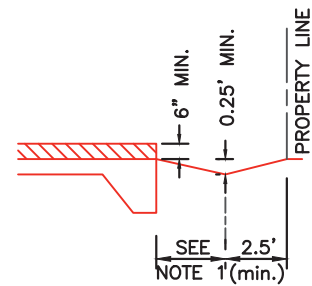
**LOT LINE GRADING  
STANDARD**

*CITY OF REEDLEY*

**ST-56**



PLAN VIEW



SIDE YARD X-SECTION

**NOTES:**

1. A MINIMUM OF 2% SLOPE FOR A MINIMUM OF 5 FEET FOR DRAINAGE AWAY FROM BUILDING EXCEPT SIDE YARD SLOPE MAY BE 2.5 FEET AT 10% MINIMUM SLOPE AWAY FROM BUILDING.
2. NO WATER SHALL DRAIN TO ADJACENT PROPERTY. ALL LOT DRAINAGE SHALL BE TO CITY STREET.
3. ALL GRADING SHALL COMPLY TO APPENDIX J OF THE 2019 CALIFORNIA BUILDING CODE.
4. COMPACTION REPORTS SHALL BE PREPARED BY AN APPROVED TESTING AGENCY UPON COMPLETION OF GRADING.
5. THE OVERALL BUILDING SITE SHALL HAVE A MINIMUM SLOPE OF 0.5% IN ALL AREAS TO AN APPROVED DRAINAGE FACILITY OR PUBLIC STREET.
6. BUILDING SHALL HAVE THE FOUNDATION WALL OR CONCRETE FLOOR SLAB CONSTRUCTED AT LEAST TWELVE INCHES (12") ABOVE THE CROWN OF THE ADJOINING STREET OR 12" ABOVE THE HIGHEST POINT OF TOP OF CURB ALONG THE PROPOSED SITE.



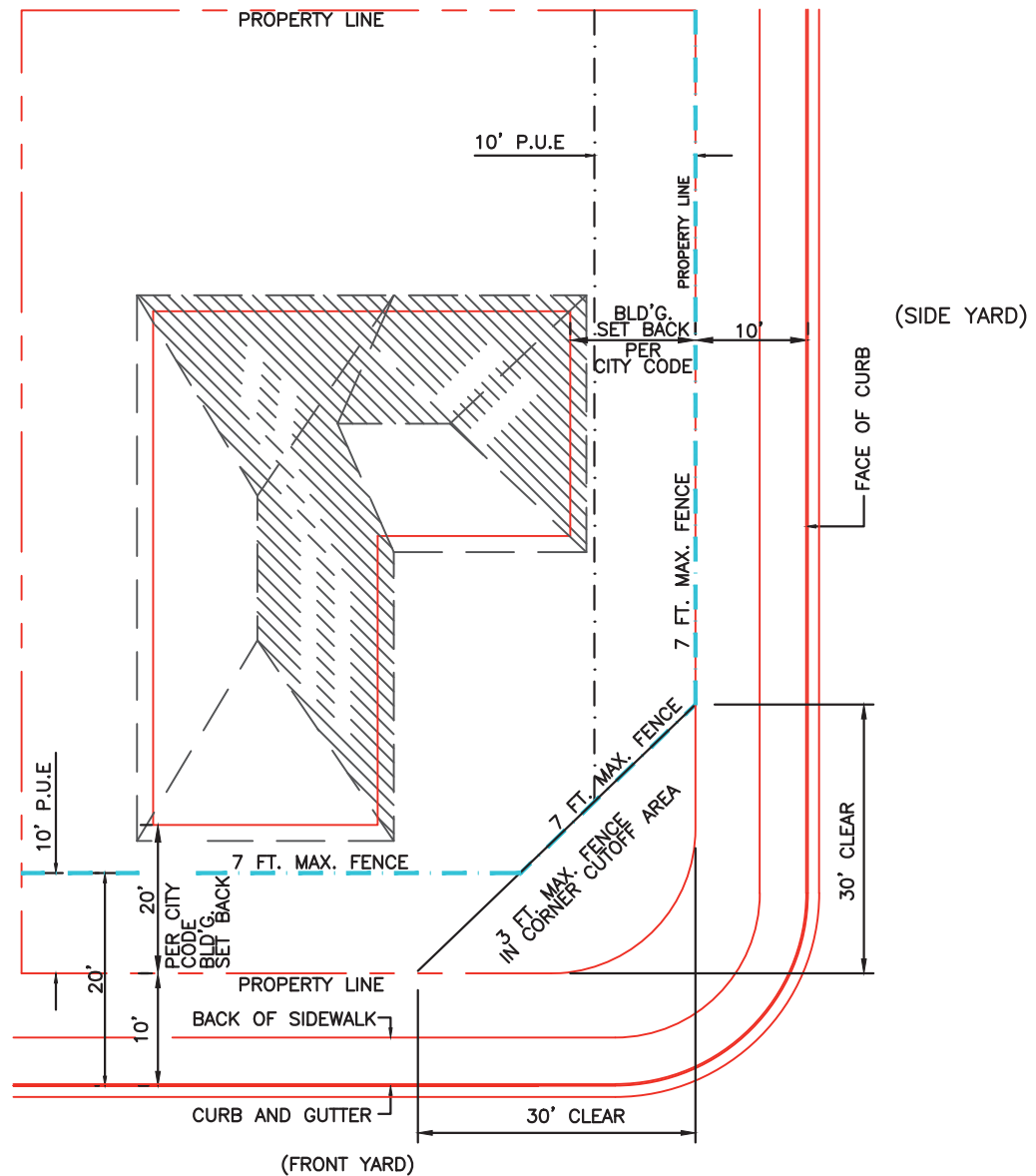
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REVISED:  
MAR. 2020  
REF. STD. DWG.:

## TYPICAL RESIDENTIAL LOT DRAINAGE

*CITY OF REEDLEY*

**ST-57**





**NOTES:**

1. IN THE CASE OF A CORNER LOT, THE FRONT OF THE LOT SHALL BE AS DEFINED AS: THE LINE SEPARATING THE NARROWEST STREET FRONTAGE OF THE LOT FROM THE STREET.
2. P.U.E. = PUBLIC UTILITY EASEMENT
3. FENCES, WALLS AND HEDGES SHALL BE PERMITTED BY CITY ORDINANCE 10-6A-6 AND AS FOLLOWS:
  - a). ALONG SIDE AND REAR PROPERTY LINES AND ALONG ANY PORTION OF THE STREET SIDE YARD OF A CORNER LOT, NOT EXCEEDING SEVEN FEET (7') IN HEIGHT.
  - b). FENCES OR WALLS NOT EXCEEDING THREE FEET (3') IN HEIGHT MAY BE ERECTED WITHIN ANY PORTION OF THE REQUIRED FRONT YARD. A FENCE OR WALL NOT EXCEEDING SEVEN FEET (7') IN HEIGHT MAY BE ERECTED IN THE FRONT YARD, PROVIDED THAT IT IS SET BACK A MINIMUM OF TEN FEET (10') FROM THE FRONT PROPERTY LINE, PROVIDED THAT THE FENCE SHALL BE A MAXIMUM OF TWENTY FEET (20') FROM THE EXTERIOR LINE OF THE CURB.
  - c). OPEN FENCES NOT EXCEEDING SEVEN FEET (7') IN HEIGHT, AND HEDGES, MAY BE LOCATED WITHIN ANY REQUIRED YARD, OR ALONG ANY SIDE LOT LINE, EXCEPT AS LIMITED BY THE NOTE 3d). BELOW.
  - d). NO FENCE, WALL OR HEDGE EXCEEDING THREE FEET (3') IN HEIGHT MAY BE LOCATED WITHIN AN AREA OF A CORNER LOT ON THE STREET SIDE OF A DIAGONAL LINE CONNECTING POINTS LOCATED THIRTY FEET (30') ALONG THE PROPERTY LINE AS MEASURED FROM THE INTERSECTION OF THE PROPERTY LINES AT THE STREET CORNER.



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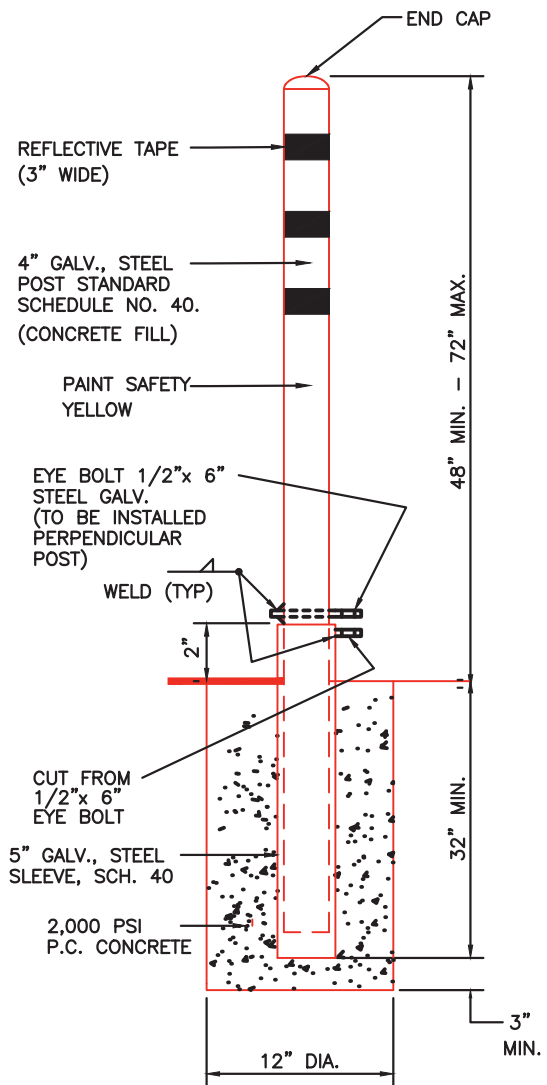
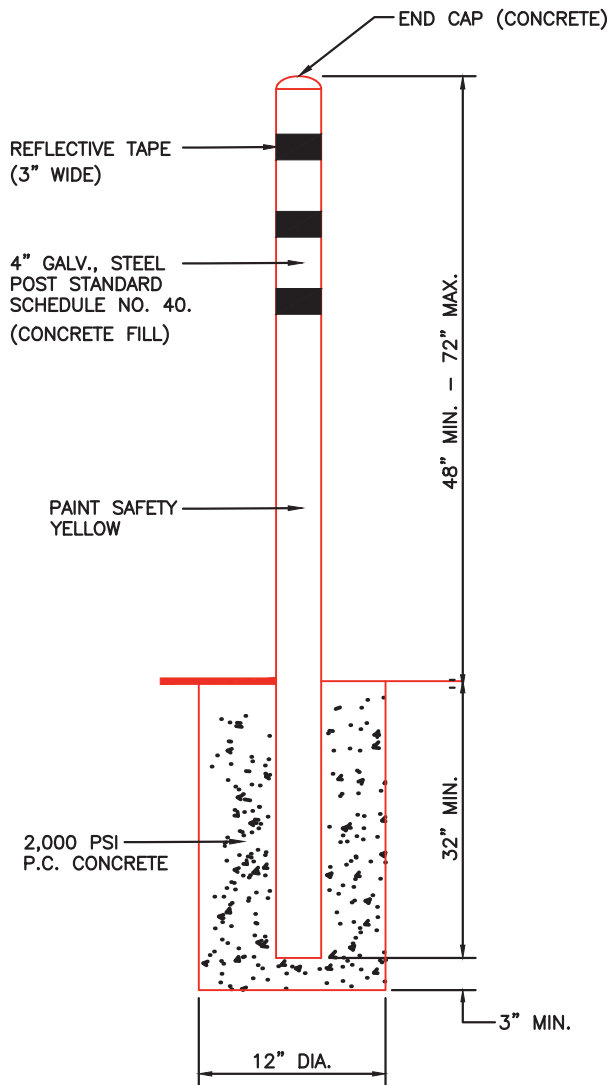
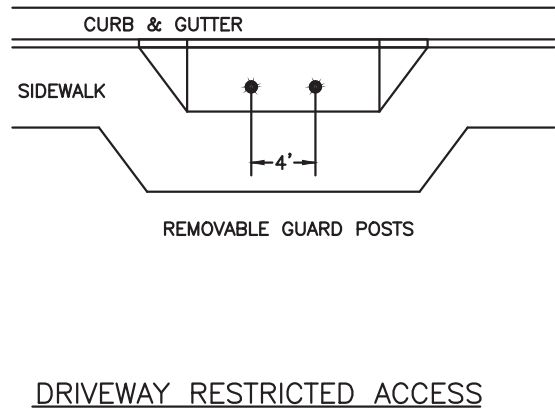
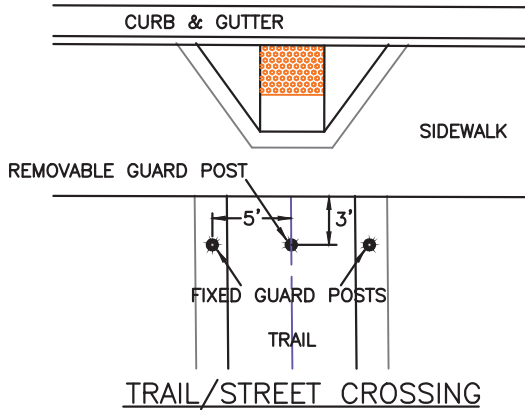
## TYPICAL RESIDENTIAL LOT FENCE LOCATION & SETBACKS

*CITY OF REEDLEY*

**ST-58**



DECORATIVE BOLLARDS MAY BE USED IN PLACE OF GUARD POSTS. SEE STD. PLAN ST-60



SCALE:  
NOT TO SCALE

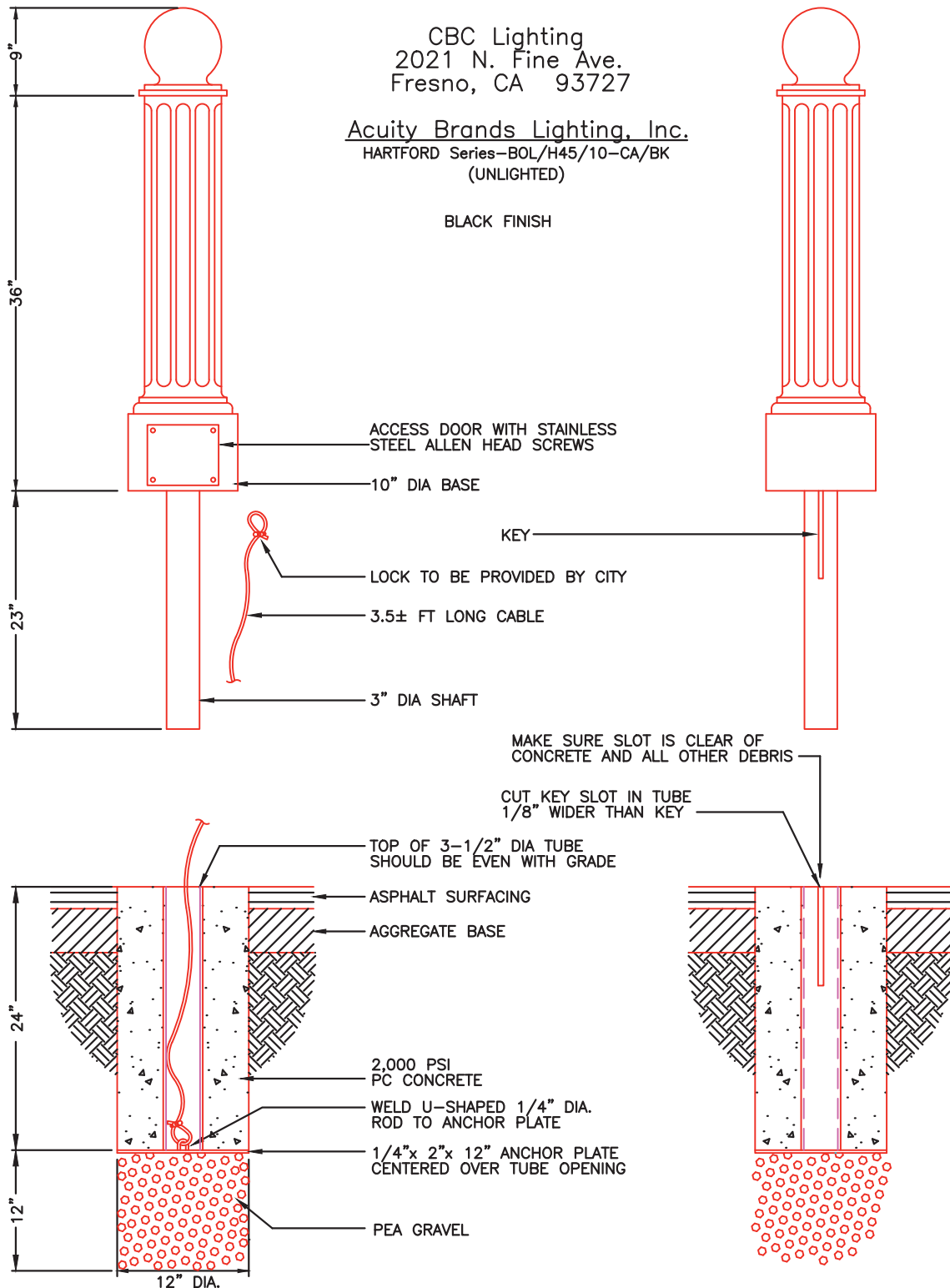
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MAR. 2020

REF. STD. DWG.:

## STEEL GUARD POST DETAIL

CITY OF REEDLEY

ST-59

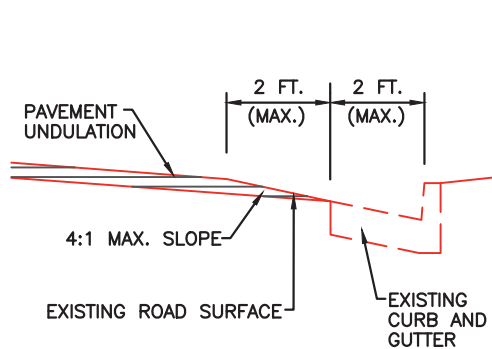
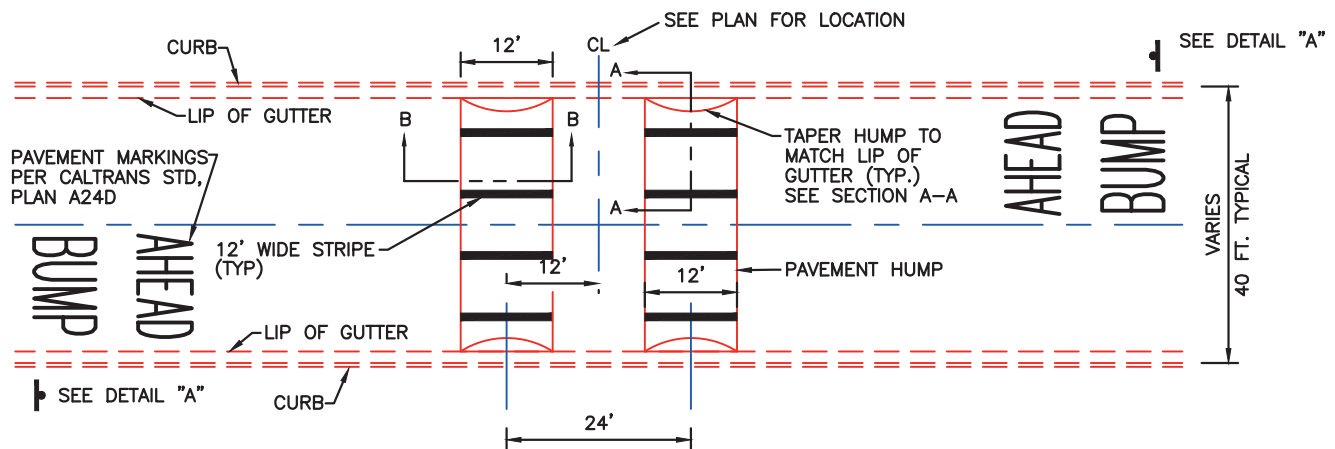


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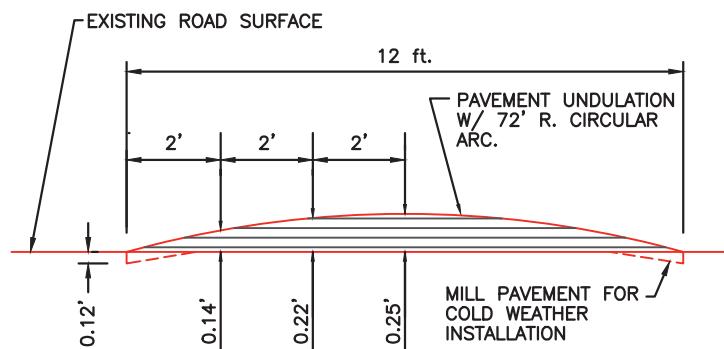
## QUICK RELEASE DECORATIVE BOLLARD

*CITY OF REEDLEY*

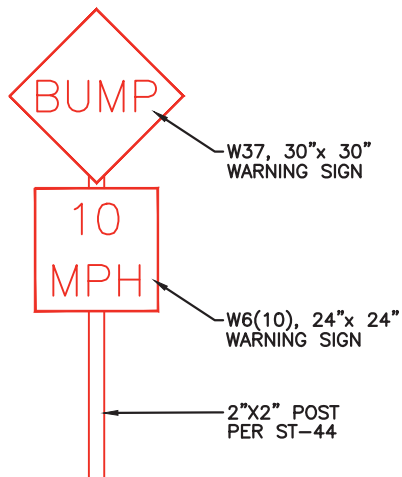
**ST-60**



SECTION A-A



SECTION B-B



DETAIL "A"

#### INSTALLATION DETAILS

1. TWO HUMPS 24 FT. APART CENTER TO CENTER SHALL BE CONSTRUCTED AT GIVEN LOCATIONS UNLESS OTHERWISE NOTED.
2. HUMPS SHALL NOT BE PLACED OVER EXISTING ROAD SERVICE COVERS, DRAIN INLETS, ETC.
3. WHENEVER POSSIBLE EDGE OF HUMPS SHALL BE 5 FT. MINIMUM FROM EDGE OF DRIVEWAY.
4. WHENEVER POSSIBLE HUMPS SHALL BE PLACED AT PROPERTY LINES.
5. WHENEVER POSSIBLE HUMPS SHALL BE PLACED ADJACENT TO STREET LIGHTS.
6. PARKING SHALL BE PROHIBITED AS DIRECTED BY THE CITY ENGINEER.
7. ALL STRIPING SHALL BE WHITE, OR YELLOW AT LOCATIONS WITHIN 500 FT. OF A SCHOOL.

#### NOTE:

THE LOCATION, FUNDING AND APPROVAL FOR INSTALLATION OF SPEED BUMPS SHALL BE BY RESOLUTION OF THE CITY COUNCIL AFTER REVIEW BY THE TRAFFIC SAFETY COMMISSION. SPEED BUMPS MUST MEET THE CITY OF REEDLEY SPEED BUMP POLICY WARRANT REQUIREMENTS.

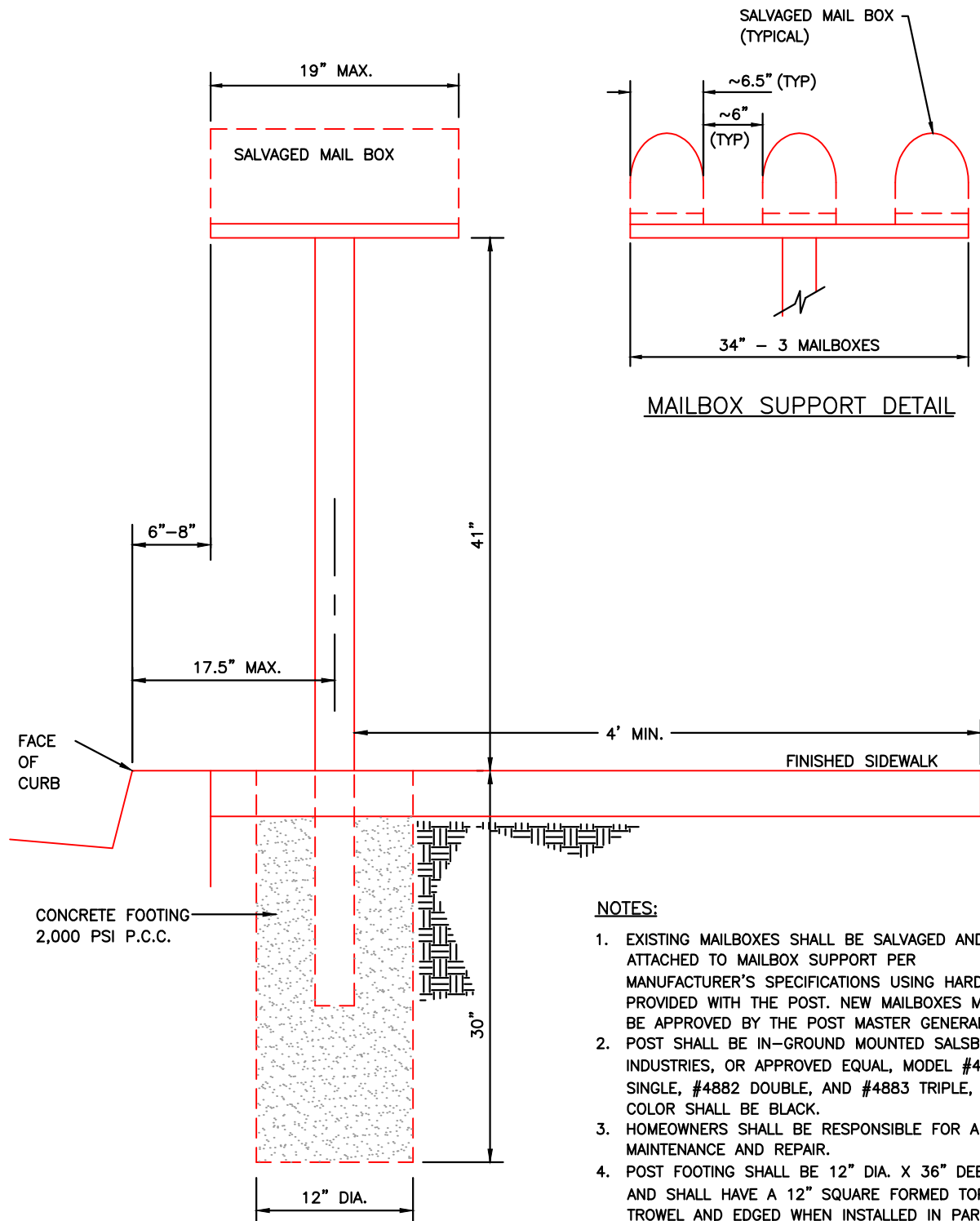


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REVISED:  
MAR. 2020  
REF. STD. DWG.:  
ST-44

## STANDARD SPEED BUMP

CITY OF REEDLEY

ST-61



**NOTES:**

1. EXISTING MAILBOXES SHALL BE SALVAGED AND ATTACHED TO MAILBOX SUPPORT PER MANUFACTURER'S SPECIFICATIONS USING HARDWARE PROVIDED WITH THE POST. NEW MAILBOXES MUST BE APPROVED BY THE POST MASTER GENERAL.
2. POST SHALL BE IN-GROUND MOUNTED SALSBUURY INDUSTRIES, OR APPROVED EQUAL, MODEL #4895 SINGLE, #4882 DOUBLE, AND #4883 TRIPLE, COLOR SHALL BE BLACK.
3. HOMEOWNERS SHALL BE RESPONSIBLE FOR ALL MAINTENANCE AND REPAIR.
4. POST FOOTING SHALL BE 12" DIA. X 36" DEEP AND SHALL HAVE A 12" SQUARE FORMED TOP, TROWEL AND EDGED WHEN INSTALLED IN PARK STRIP. FINISH TO MATCH SIDEWALK.

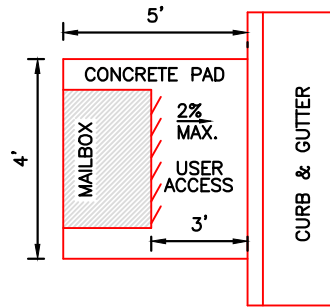


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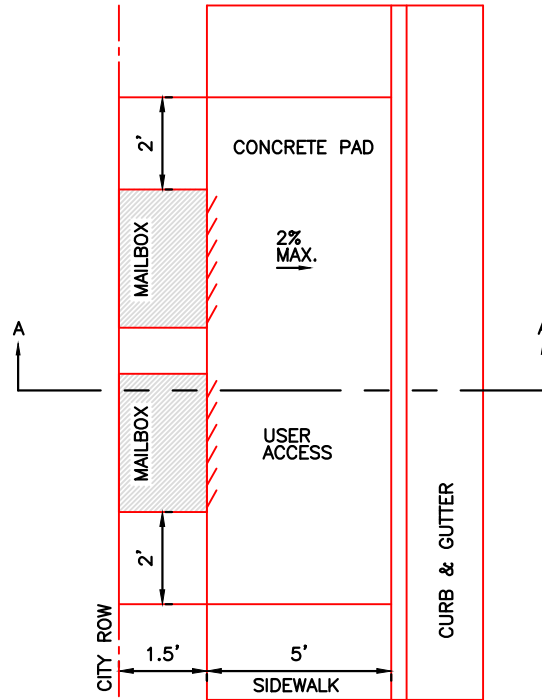
## MAILBOX POST RELOCATION

*CITY OF REEDLEY*

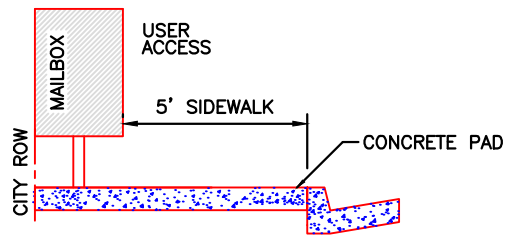
**ST-62**



PLAN VIEW WITHOUT SIDEWALK AND R.O.W.



PLAN VIEW WITH SIDEWALK



SECTION A-A

NOTES:

1. ALL MAILBOX CLUSTER DESIGNS SHALL BE APPROVED BY THE UNITED STATES POSTAL SERVICE PRIOR TO INSTALLATION.
2. MAILBOX CONCRETE PAD SHALL BE 4,000 PSI AT 6" DEPTH WITH 4"x6" WELDED WIRE MESH REINFORCEMENT. EXPANSION JOINTS SHALL BE SPACED 20' MAX. WITH WEAKENED PLAN JOINTS EVERY 10' AND SCRIBE LINES EVERY 5'. MEDIAN BROOM FINISH TO MATCH SIDEWALK.

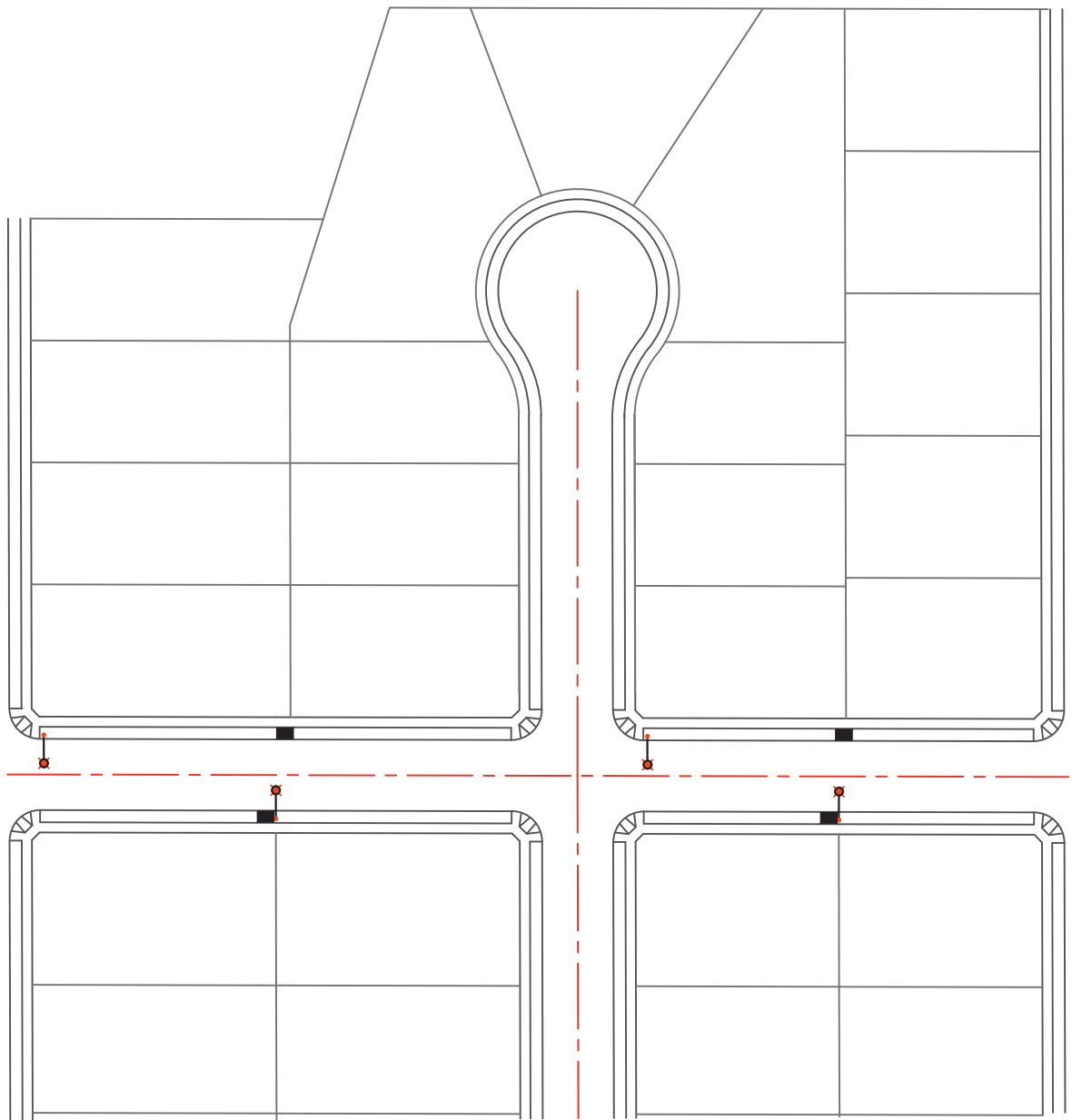


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REF. STD. DWG.:

**TYPICAL MAILBOX  
CLUSTER DETAIL**

*CITY OF REEDLEY*

**ST-63**



■ TYPICAL MAILBOX  
CLUSTER LOCATION

NOTES:

1. ALL MAILBOX CLUSTER LOCATIONS SHALL BE APPROVED BY THE UNITED STATES POSTAL SERVICE PRIOR TO INSTALLATION.
2. ALL MAILBOX CLUSTER LOCATIONS SHALL HAVE A STREETLIGHT WITHIN 10 FEET OF CONCRETE PAD OR DIRECTLY ACROSS THE STREET.



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REVISED:  
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REF. STD. DWG.:

## TYPICAL MAILBOX CLUSTER LOCATION

*CITY OF REEDLEY*

**ST-64**

ORIENTATE PEC  
TO THE NORTH

SEE DATA TABLE

CAST IRON OR STEEL  
CAP WITH SET SCREWS

SEE DATA TABLE

30'-0" or 33'-9" MOUNTING HEIGHT

TWO #10 COPPER CONDUCTORS  
STANDARD (THHN) BETWEEN  
FUSE AND FIXTURE

LOCAL RESIDENTIAL = 5.75'  
COLLECTOR/ARTERIAL = 24"  
(WITH 10' SIDEWALK WIDTH)

FUSE FOR FIXTURE, 5A W/TRON  
TYPE FUSE HOLDER  
NO. 3-1/2" PULL BOX WITH  
#3 REBAR. SEE CITY STD.  
ST-67 AND ST-73

SIDEWALK PER CITY STD.  
2% (MIN.)

1-1/2" CONDUIT (SCH. 80 PVC)  
WITH 18" RADIUS BEND-NO NIPPLES  
ON VERTICAL RISER AND NO FACTORY  
90° BENDS. THREE #6 COPPER  
CONDUCTORS (XLP)

FIELDCAST FOUNDATION  
2500 PSI P.C.C.

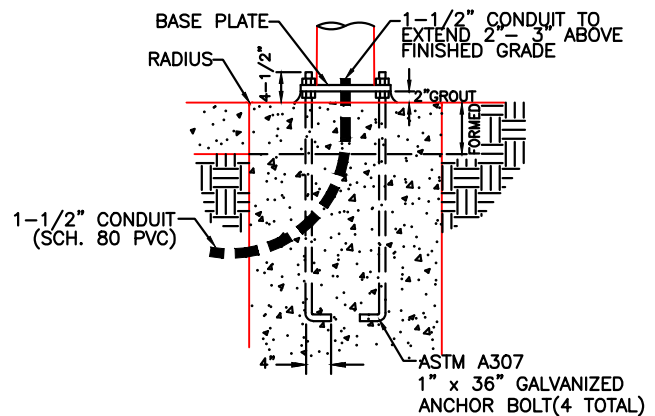
LIGHT STANDARD  
TYPE 15

## POLE AND LUMINAIRE ARM DATA

STREET CLASSIFICATION	No. OF LANES	MAST ARM LENGTH	POLE HEIGHT
LOCAL	2	8-FOOT	28-FOOT
COLLECTOR	2	8-FOOT	28-FOOT
	4	12-FOOT	30-FOOT
ARTERIAL	4	12-FOOT	30-FOOT

### NOTES:

1. ALL WORK SHALL CONFORM TO THE APPLICABLE SECTIONS OF THE SPECIFICATIONS ENTITLED STANDARD SPECIFICATIONS, STATE OF CALIFORNIA, BUSINESS AND TRANSPORTATION AGENCY, DEPARTMENT OF TRANSPORTATION AND NATIONAL ELECTRICAL CODE, AND THESE PROVISIONS.
2. REFER TO PLAN SHEET OR ST-69 FOR PLACEMENT AND WATTAGE EQUIVALENCY REQUIREMENTS.
3. ALL STREET LIGHTS SHALL BE NUMBERED. REFER TO ST-70.
4. THE DEVELOPER SHALL APPLY FOR RULE 16 WITH PG&E.
5. THE CITY SHALL REQUEST STREET LIGHT ACTIVATION WITH PG&E PRIOR TO NOTICE OF COMPLETION.
6. LUMINAIRE SHALL BE:  
HPS 70W EQUIVALENT CREE  
STR-LWY-2S-HT-03-E-UL-SV-525-40K-DIM-UTL-R  
HPS 100W EQUIVALENT CREE  
STR-LWY-2S-HT-04-E-UL-SV-525-40K-DIM-UTL-R  
HPS 150W EQUIVALENT CREE  
STR-LWY-2S-HT-05-E-UL-SV-525-40K-DIM-UTL-R



BASE DETAIL



SCALE:  
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REVISED:  
MAR. 2020  
REF. STD. DWG.:  
ST-67, 69, 70 & 73

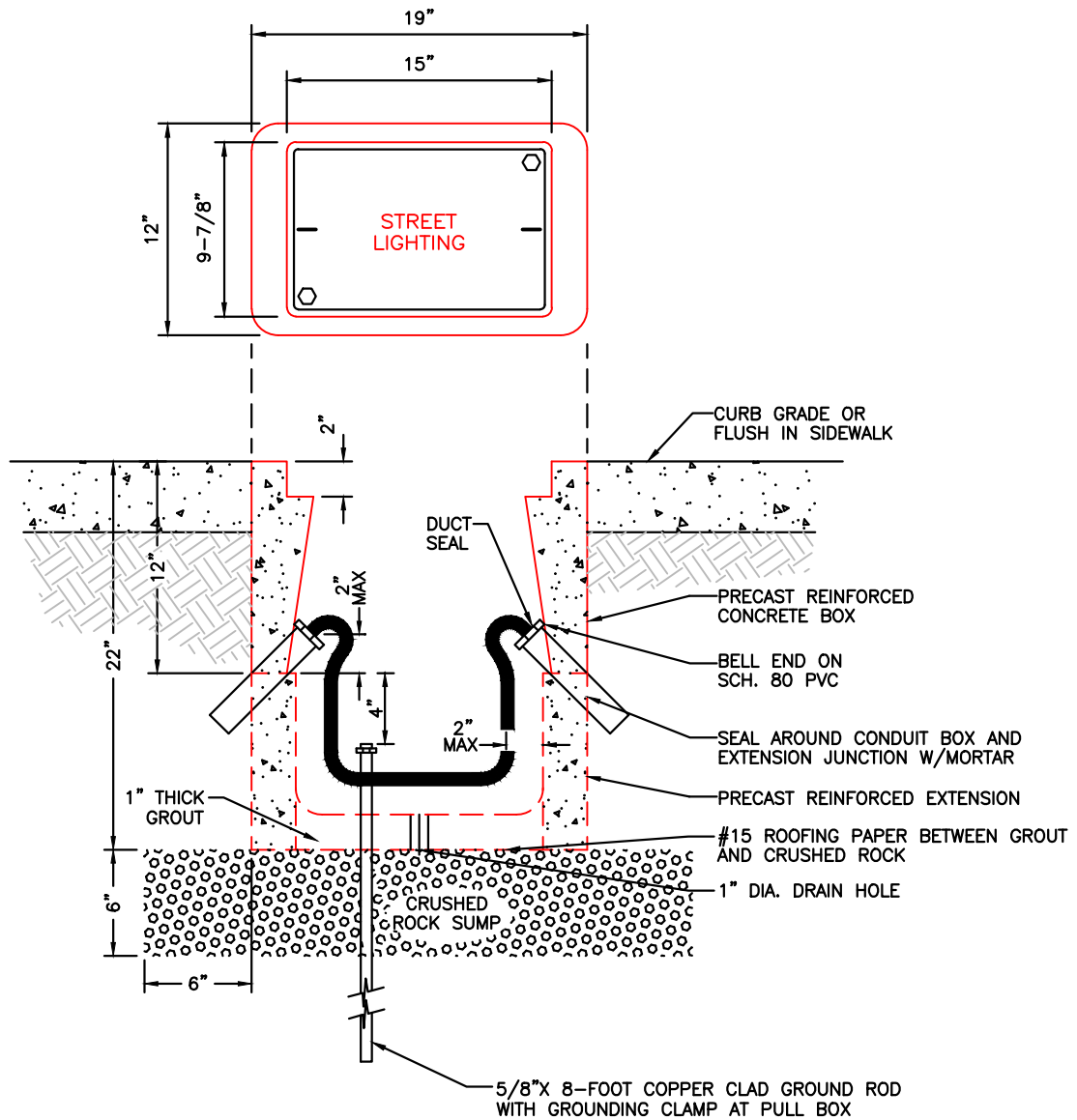
## STREET LIGHT STANDARD

*CITY OF REEDLEY*

**ST-65**







**NOTES:**

1. PULL BOX SHALL BE NO. 3-1/2 PER CAL TRANS STANDARD SPECIFICATIONS, CHRISTY N-9 OR APPROVED EQUAL.
2. PULL BOX SHALL BE GROUTED PRIOR TO INSTALLATION OF CONDUCTORS SLOPED TOWARD THE DRAIN HOLE. PLACE A LAYER OF ROOFING PAPER BETWEEN THE CRUSHED ROCK AND THE GROUT. OPEN AT DRAIN HOLE.
3. PULL LID BEFORE POURING CONCRETE AROUND PULL BOX.
4. WRAP PULL BOX WITH ROOFING PAPER BEFORE BACKFILLING.
5. STREET LIGHT CONDUCTORS SHALL BE INSTALLED CONTINUOUS. SPLICES SHALL ONLY BE PERMITTED AT THE PULL BOX.
6. INSTALL A ONE-FOOT RING OF CONCRETE, FOUR INCHES DEEP, AROUND THE WRAPPED PULL BOX LOCATED IN DIRT AREA, SLOPED TO DRAIN AWAY FROM THE PULL BOX.
7. ALL LIDS ON ALL UTILITY BOXES SHALL HAVE LOCKING BOLTS.
8. GROUND ROD REQUIRED IN ALL PULL BOXES AT STREET LIGHT.



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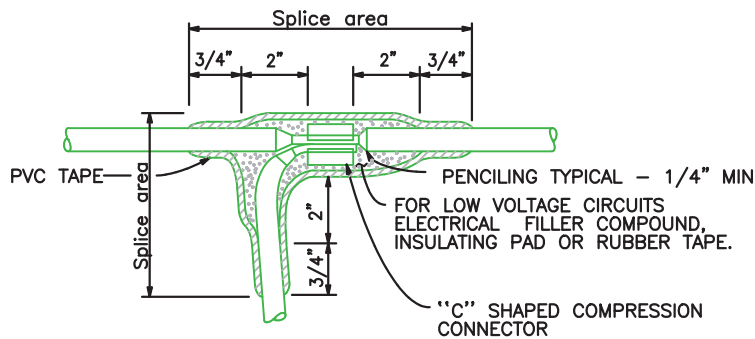
REVISED:  
JAN. 2022

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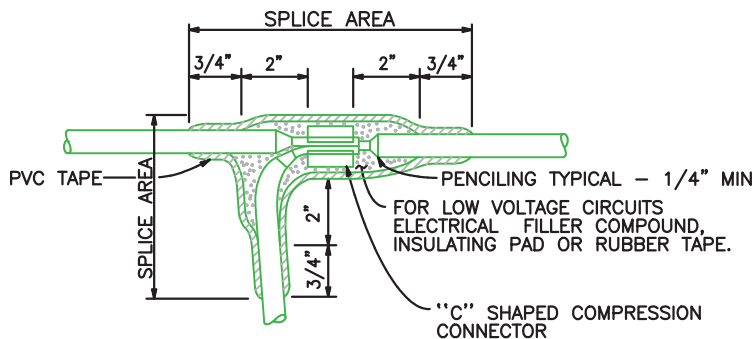
## STREET LIGHT PULL BOX

*CITY OF REEDLEY*

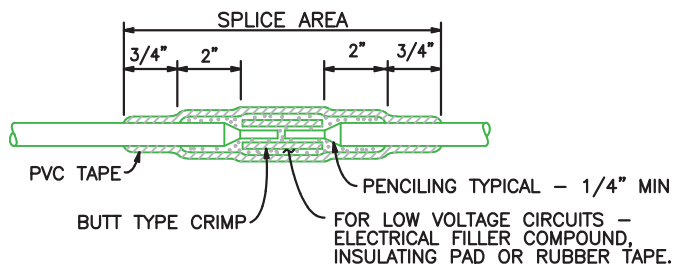
**ST-67**



TYPE "C" SPLICE  
BETWEEN 1 FREE-END AND 1 THROUGH CONDUCTOR



TYPE "T" SPLICE  
FOR 3 FREE-ENDS



TYPE "S" SPLICE  
BETWEEN 2 FREE-ENDS

## LOW VOLTAGE CIRCUITS (0-600 V) INSTALLATION METHODS

### METHOD "A" (USED ONLY WHEN SPECIFIED)

1. COMPLETELY COVER THE SPLICE AREA WITH ELECTRICAL INSULATING COATING AND ALLOW TO DRY.
2. APPLY ELECTRICAL FILLER COMPOUND WITH MINIMUM THICKNESS OF 0.15'.
3. APPLY 3 LAYERS HALF LAPPED POLYVINYL CHLORIDE TAPE.
4. COVER ENTIRE SPLICE WITH ELECTRICAL INSULATING COATING AND ALLOW TO DRY.

OR

### METHOD "B"

1. COMPLETELY COVER THE SPLICE AREA WITH ELECTRICAL INSULATING COATING AND ALLOW TO DRY.
2. APPLY 2 LAYERS OF ELECTRICAL INSULATING PAD WITH MIN. THICKNESS OF 0.15' EACH LAYER OR 2 LAYERS, HALF LAPPED, SYNTHETIC OIL RESISTANT, SELF FUSING RUBBER TAPE.
3. APPLY 3 LAYERS HALF LAPPED POLYVINYL CHLORIDE TAPE.
4. COVER ENTIRE SPLICE WITH ELECTRICAL INSULATING COATING AND ALLOW TO DRY.

### NOTES:

1. ALL DIMENSIONS ARE MINIMUM.
2. RUBBER TAPES SHALL BE ROLLED AFTER APPLICATION.

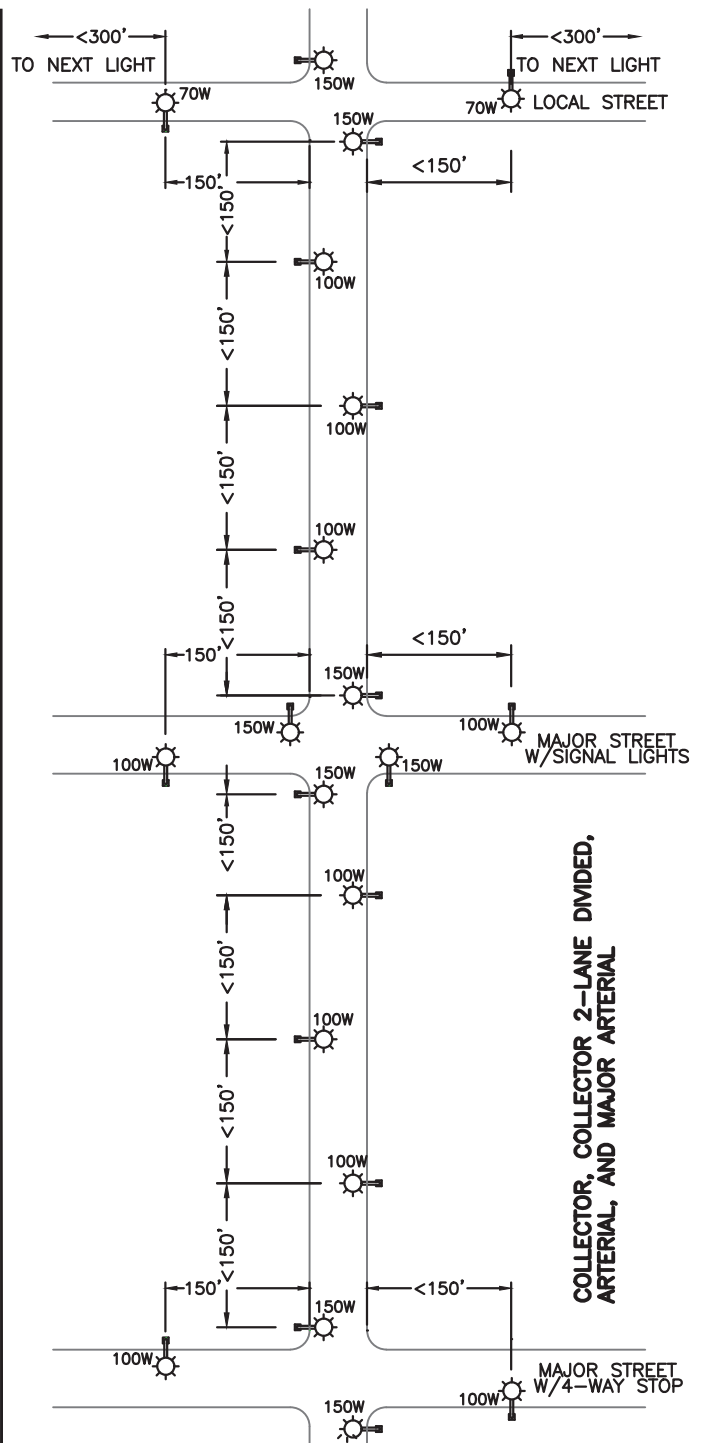
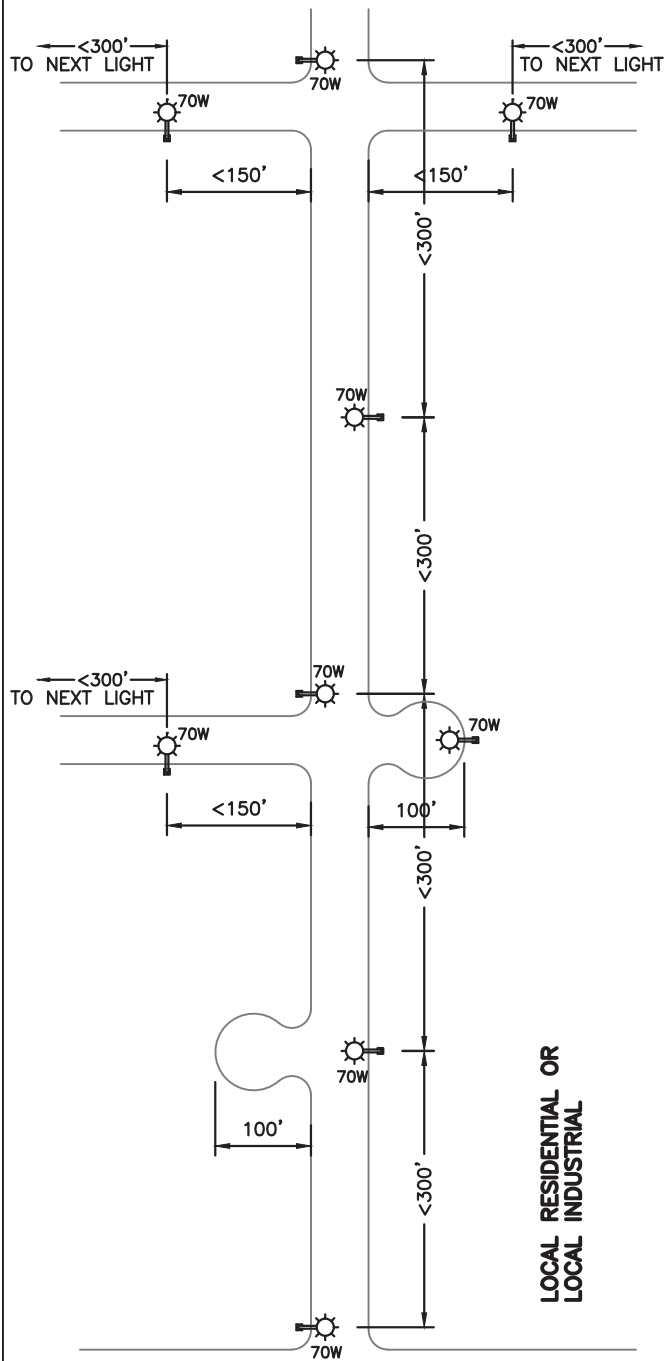


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REVISED:  
MAR. 2020  
REF. STD. DWG.:

## STREET LIGHT AND ELECTRICAL SYSTEMS SPLICING DETAILS

*CITY OF REEDLEY*

**ST-68**



### PLACEMENT REQUIREMENTS

#### STREET CLASSIFICATION

LOCAL RESIDENTIAL  
LOCAL INDUSTRIAL

COLLECTOR  
COLLECTOR 2-LANE DIVIDED  
ARTERIAL  
MAJOR ARTERIAL

#### MAXIMUM DISTANCE BETWEEN LIGHTS

300' EITHER SIDE OF  
STREET 70 WATT LIGHTS EQUIVALENT

300' ON BOTH SIDES OF  
STREET, STAGGERED AT 150'  
150 WATT LIGHTS EQUIVALENT AT INTERSECTIONS  
100 WATT LIGHTS EQUIVALENT MID BLOCK

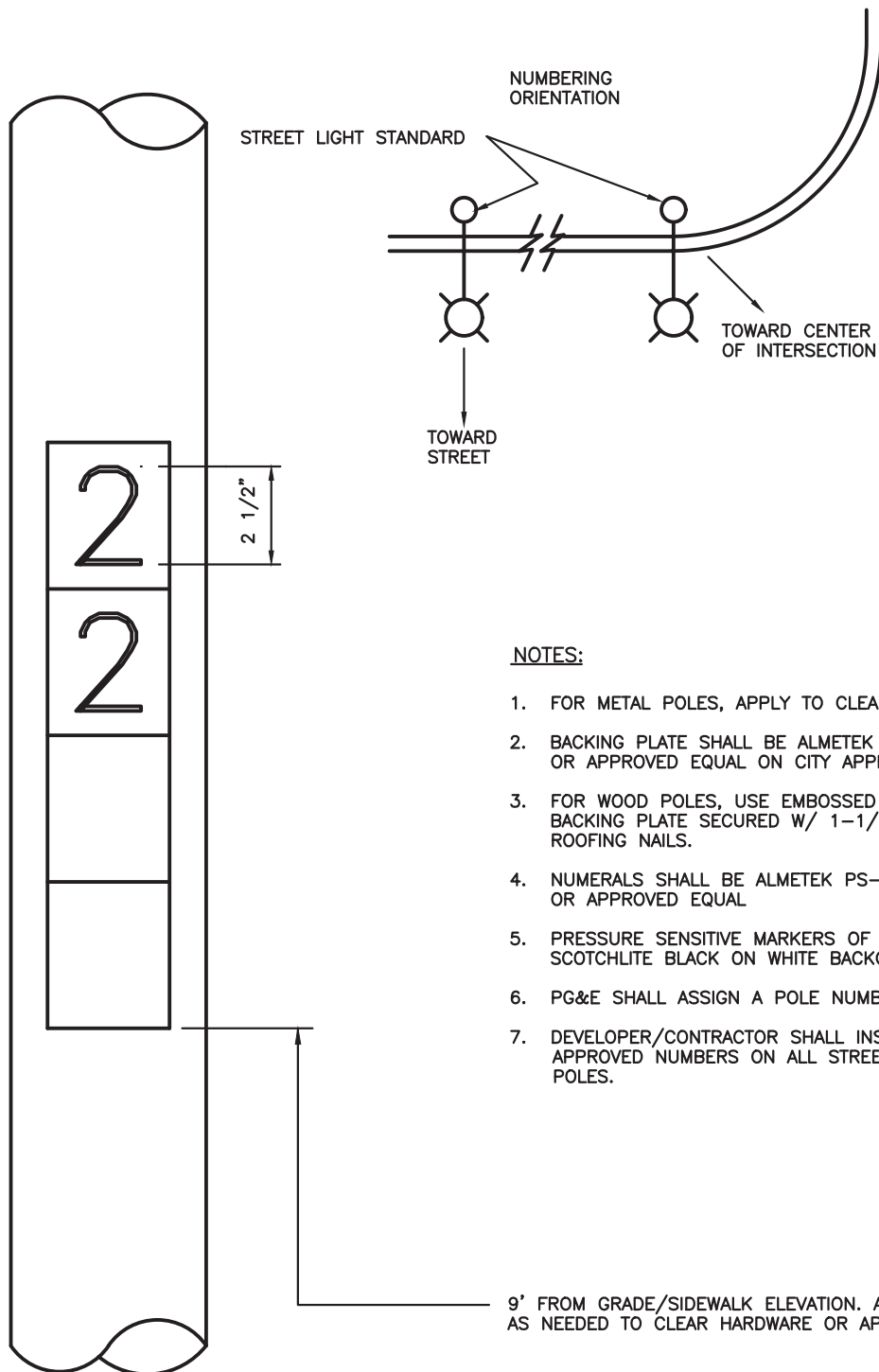


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MAR. 2020  
REF. STD. DWG.:

## STREET LIGHT PLACEMENT

CITY OF REEDLEY

ST-69



NOTES:

1. FOR METAL POLES, APPLY TO CLEAN SURFACE.
2. BACKING PLATE SHALL BE ALMETEK EMP-2.5V5 OR APPROVED EQUAL ON CITY APPROVED POLES.
3. FOR WOOD POLES, USE EMBOSSED ALUMINUM BACKING PLATE SECURED W/ 1-1/2" ALUMINUM ROOFING NAILS.
4. NUMERALS SHALL BE ALMETEK PS-2.5 SERIES OR APPROVED EQUAL
5. PRESSURE SENSITIVE MARKERS OF REFLECTIVE SCOTCHLITE BLACK ON WHITE BACKGROUND.
6. PG&E SHALL ASSIGN A POLE NUMBER.
7. DEVELOPER/CONTRACTOR SHALL INSTALL CITY APPROVED NUMBERS ON ALL STREET LIGHT POLES.



SCALE:  
NOT TO SCALE

REVISED:  
MAR. 2020

REF. STD. DWG.:

## STREET LIGHT POLE NUMBERING

*CITY OF REEDLEY*

**ST-70**



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NOT TO SCALE

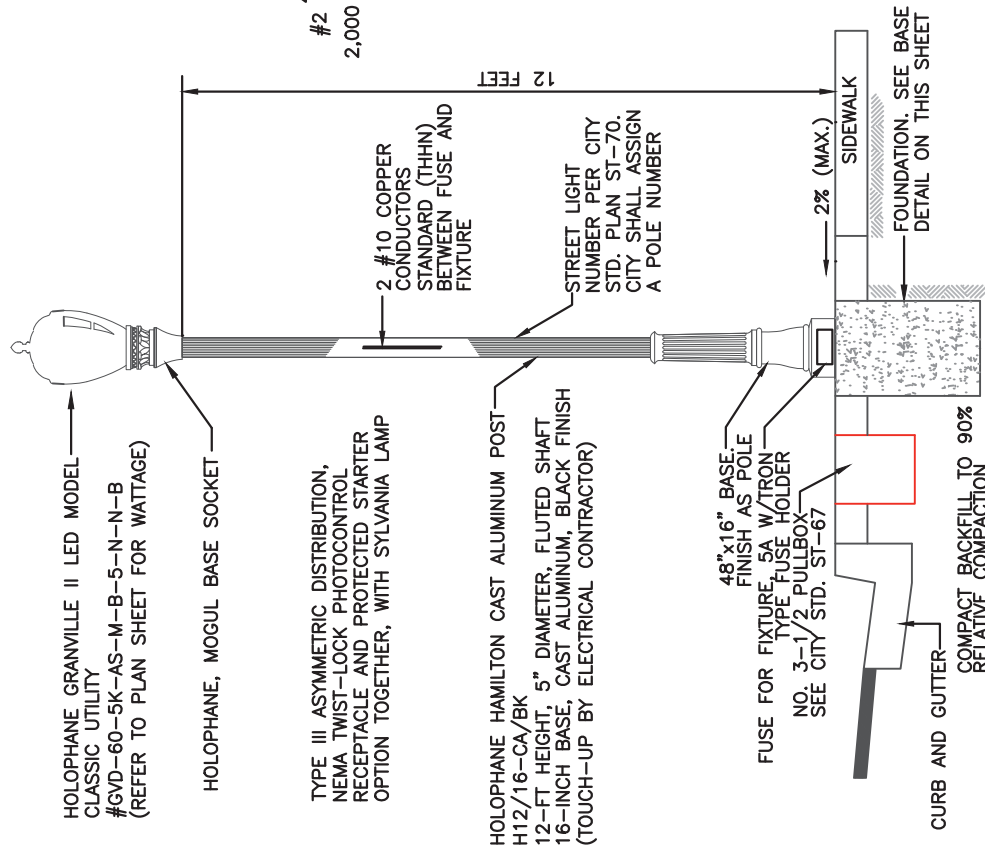
REVISED:  
MAR. 2020

REF. STD. DWG.:  
ST-67, 70 & 73

## HISTORIC LIGHT STANDARD

CITY OF REEDLEY

ST-71

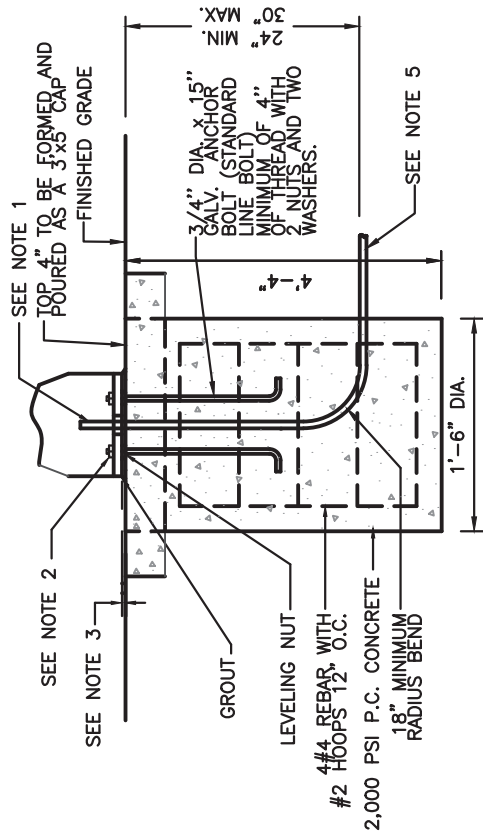


### HOLOPHANE UTILITY GRANVILLE

### HISTORIC LIGHT DETAIL

#### GENERAL NOTES:

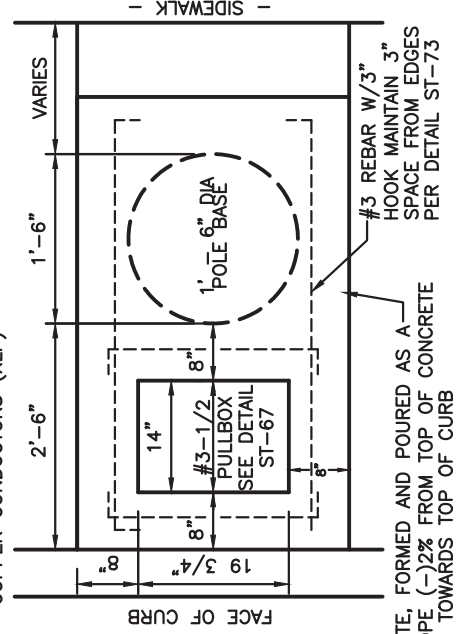
1. THE DEVELOPER SHALL APPLY FOR RULE 16 WITH PG&E.
2. ORIENTATE PHOTO ELECTRIC CELL (PEC) TO THE NORTH.
3. THE CITY SHALL REQUEST STREET LIGHT ACTIVATION WITH PG&E PRIOR TO NOTICE OF COMPLETION.



#### BASE DETAIL

#### NOTES:

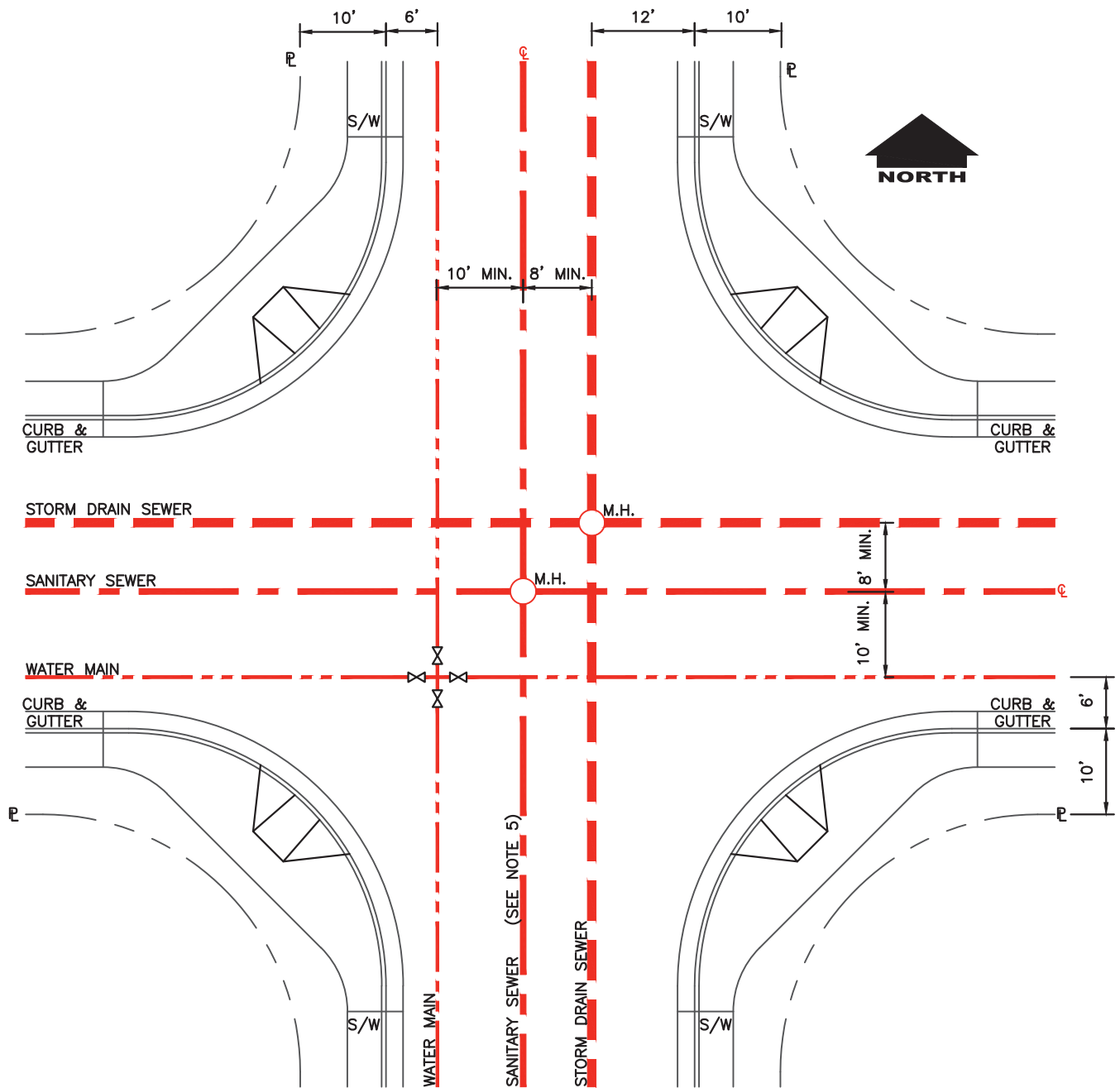
1. CONDUITS SHALL EXTEND 2" MAXIMUM ABOVE BASE PLATE.
2. THREADED PORTION OF ANCHOR BOLTS NOT TO EXTEND MORE THAN 1" ABOVE TOP OF HOLD DOWN NUT.
3. 2" (MAX.) FROM BOTTOM OF STEEL BASE PLATE TO FINISHED SURFACE.
4. #4 REBAR CAGE PER DETAIL NOTE ABOVE
5. 1-1/2" CONDUIT WITH 18" RADIUS BEND-NO NIPPLES ON VERTICAL RISER AND NO FACTORY 90° BENDS. THREE #6 COPPER CONDUCTORS (XLP)



#### PLAN VIEW

4" THICK CONCRETE, FORMED AND POURED AS A 3' X 5' CAP. SLOPE (-)2% FROM TOP OF CONCRETE POLE FOUNDATION TOWARDS TOP OF CURB

### STREET LIGHT AND PULL BOX LOCATION



**NOTES:**

1. THIS "STANDARD" IS A GUIDE ONLY AND DEVIATIONS WILL BE ACCEPTABLE WHERE CONDITIONS DICTATE.
2. DIMENSIONS SHOWN ARE DESIRABLE BUT DO NOT GOVERN.
3. THE INTENTION IS TO SHOW THE RELATIVE POSITION OF ALL UTILITIES.
4. ANY CHANGES OR DEVIATION MUST BE APPROVED BY THE CITY ENGINEER.
5. IN STREETS WITH A MEDIAN ISLAND THE SEWER MAIN SHALL BE LOCATED 5 FEET FROM THE MEDIAN ISLAND CURB FACE ON THE OPPOSITE SIDE OF THE STORM DRAIN PIPELINE.

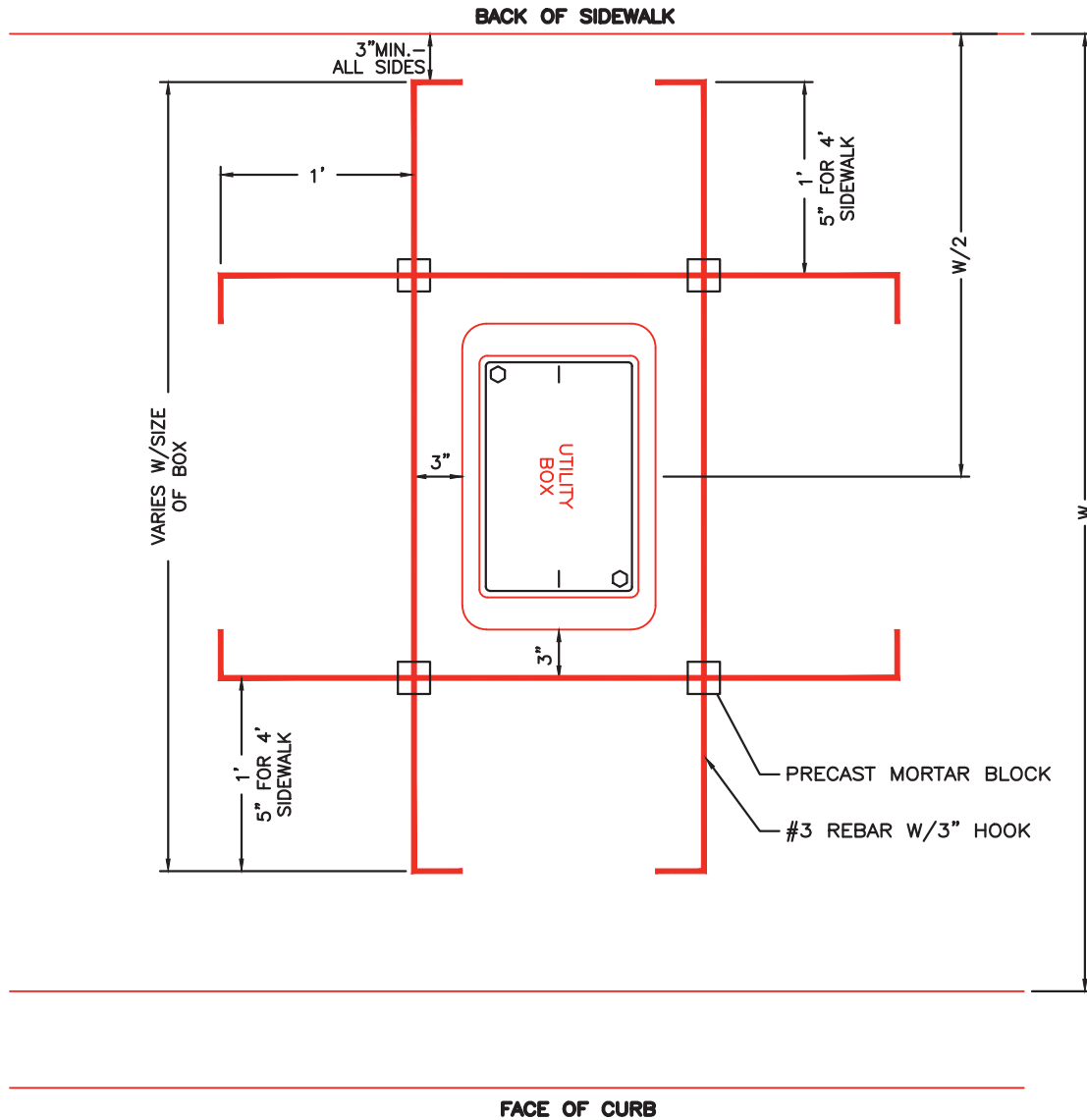


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REVISED:  
MAR. 2020  
REF. STD. DWG.:

**UNDERGROUND UTILITIES  
LOCATION**

*CITY OF REEDLEY*

**ST-72**



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REVISED:  
MAR. 2020

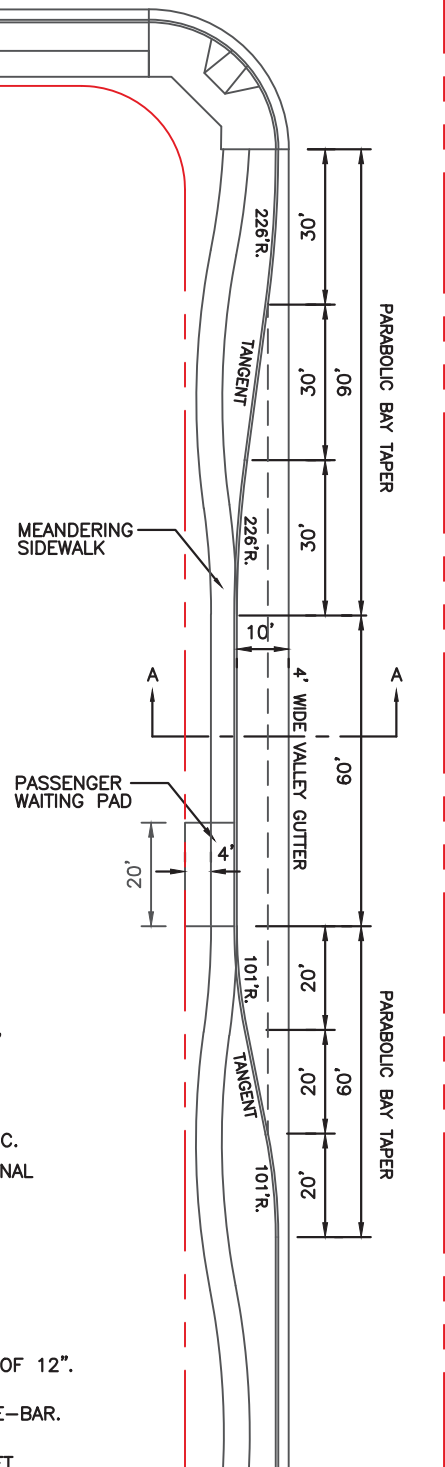
REF. STD. DWG.:

## UTILITY BOX REINFORCEMENT DETAIL

*CITY OF REEDLEY*

**ST-73**

1. THIS "STANDARD" IS A GUIDE ONLY AND DEVIATIONS WILL BE ACCEPTABLE WHERE CONDITIONS DICTATE.
2. DIMENSIONS SHOWN ARE DESIRABLE BUT DO NOT GOVERN.
3. ANY CHANGES OR DEVIATION MUST BE APPROVED BY THE CITY ENGINEER.



1. O.G. 95% RELATIVE COMPACTION BENEATH CONCRETE SLAB TO DEPTH OF 12".
2. CONCRETE FOR SLAB SHALL BE CLASS 'B' 3500 PSI.
3. MAINTAIN 6" CLEARANCE BETWEEN ALL JOINTS AND ENDS OF STEEL RE-BAR.
4. EXPANSION JOINTS AT EACH 60 FOOT TANGENT POINT.
5. WEAKENED PLANE JOINTS SHALL BE PLACED AT A SPACING OF 20 FEET.



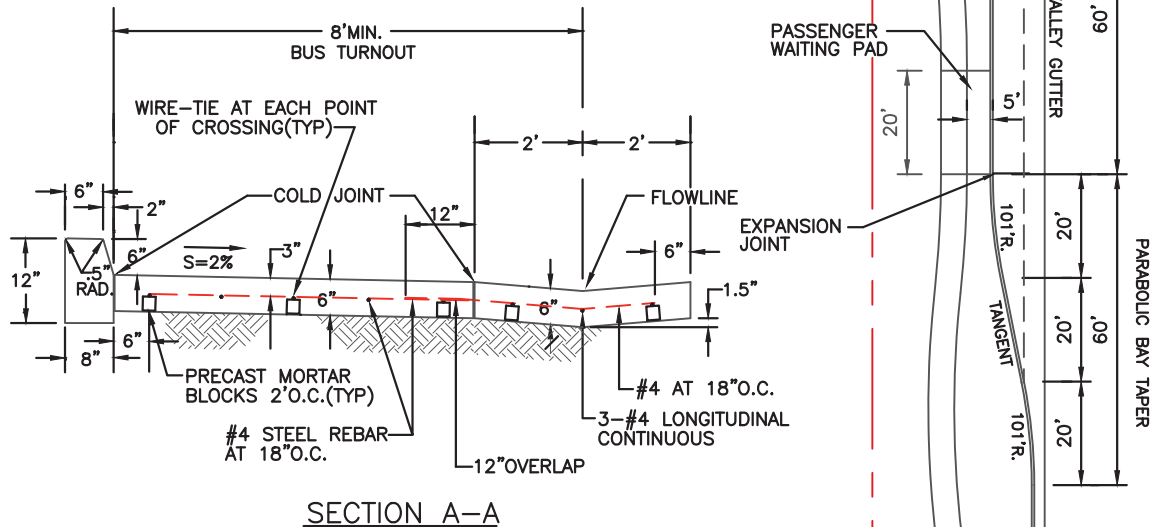
# MID-BLOCK BUS TURNOUT DESIGN WITH MINIMUM OF 17' LANDSCAPE BUFFER

ST-74



# GENERAL NOTES:

1. THIS "STANDARD" IS A GUIDE ONLY AND DEVIATIONS WILL BE ACCEPTABLE WHERE CONDITIONS DICTATE.
2. DIMENSIONS SHOWN ARE DESIRABLE BUT DO NOT GOVERN.
3. ANY CHANGES OR DEVIATION MUST BE APPROVED BY THE CITY ENGINEER.



# NOTES:

1. O.G. 95% RELATIVE COMPACTION BENEATH CONCRETE SLAB TO DEPTH OF 12".
2. CONCRETE FOR SLAB SHALL BE CLASS 'B' 3500 PSI.
3. MAINTAIN 6" CLEARANCE BETWEEN ALL JOINTS AND ENDS OF STEEL RE-BAR.
4. EXPANSION JOINTS AT EACH 60 FOOT TANGENT POINT.
5. WEAKENED PLANE JOINTS SHALL BE PLACED AT A SPACING OF 20 FEET.

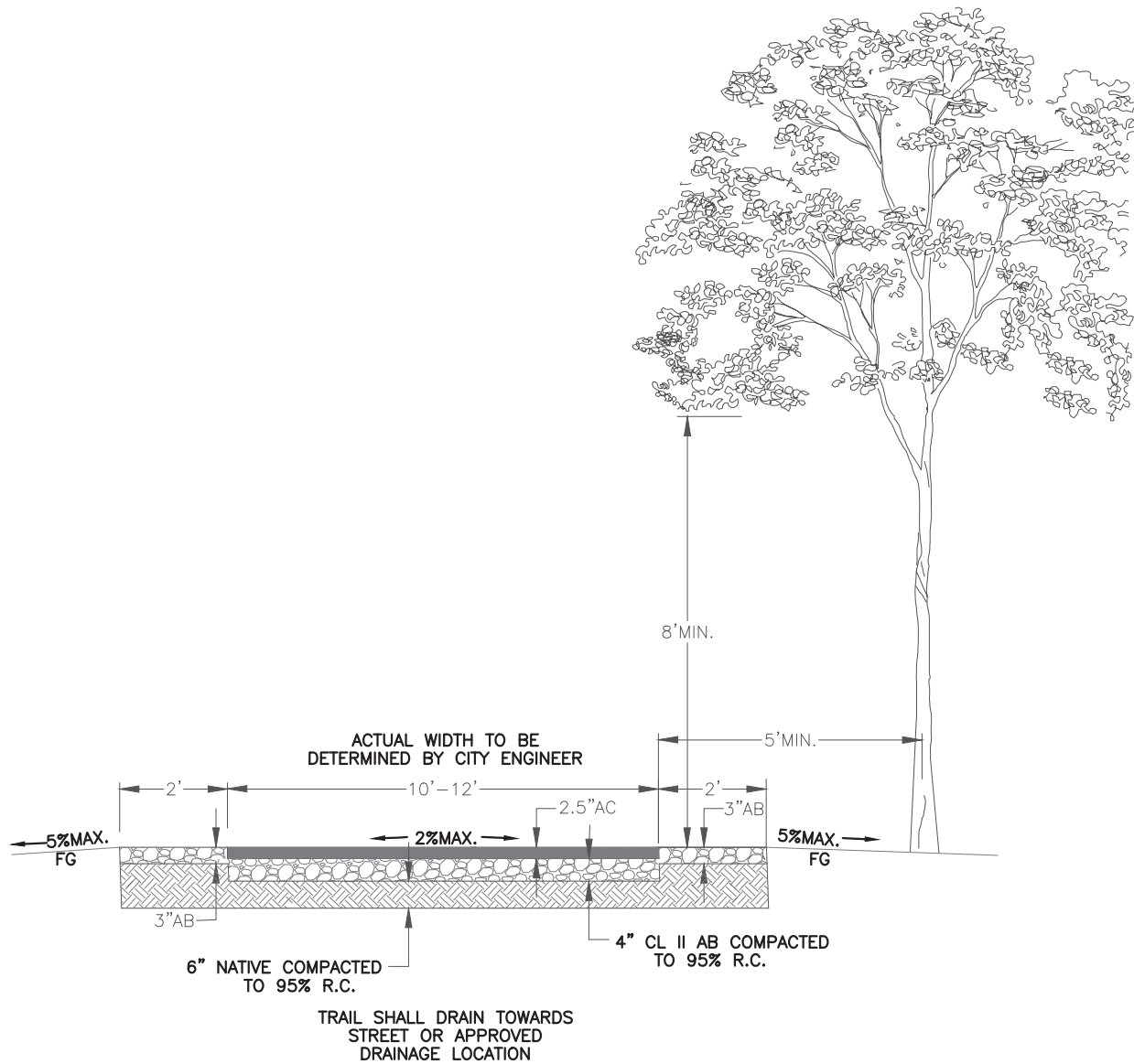


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REVISED:  
MAR. 2020  
REF. STD. DWG.:

## MID-BLOCK BUS TURNOUT DESIGN WITH GREATER THAN 24' LANDSCAPE BUFFER

CITY OF REEDLEY

ST-75



**NOTES:**

1. THIS STANDARD SHALL BE USED ONLY UPON APPROVAL BY CITY ENGINEER.
2. CITY ENGINEER MAY PERMIT A CURVILINEAR DESIGN. PRECISE DATA SHALL BE PROVIDED TO STAKE THE ALIGNMENT AND SET APPROPRIATE GRADES.



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REVISED:  
MAR. 2020

REF. STD. DWG.:

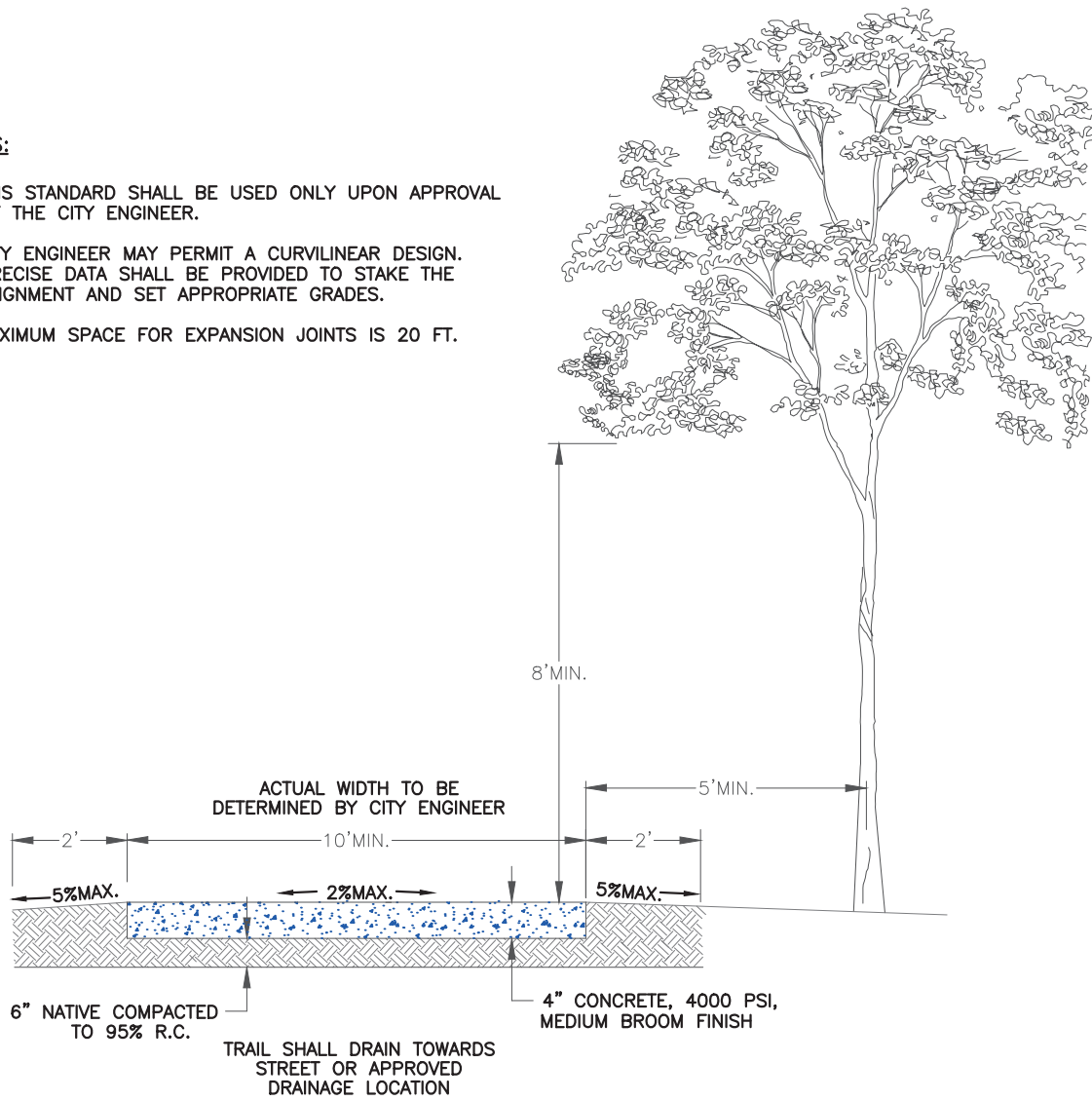
## ASPHALT MULTI-PURPOSE TRAIL

*CITY OF REEDLEY*

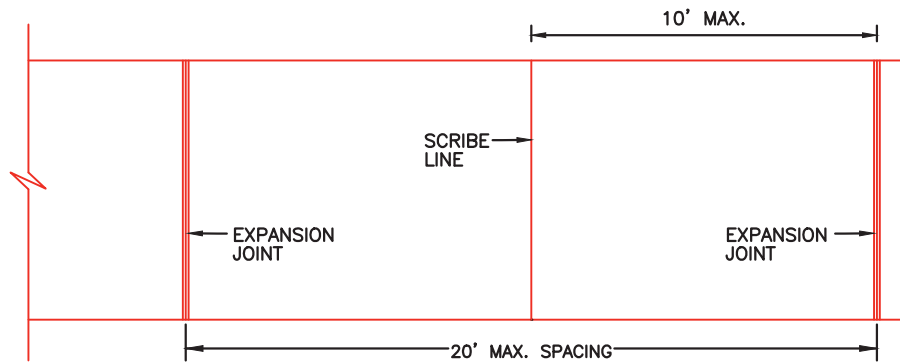
**ST-76**

**NOTES:**

1. THIS STANDARD SHALL BE USED ONLY UPON APPROVAL BY THE CITY ENGINEER.
2. CITY ENGINEER MAY PERMIT A CURVILINEAR DESIGN. PRECISE DATA SHALL BE PROVIDED TO STAKE THE ALIGNMENT AND SET APPROPRIATE GRADES.
3. MAXIMUM SPACE FOR EXPANSION JOINTS IS 20 FT.



**ELEVATION VIEW**



**PLAN VIEW**



SCALE:  
NOT TO SCALE

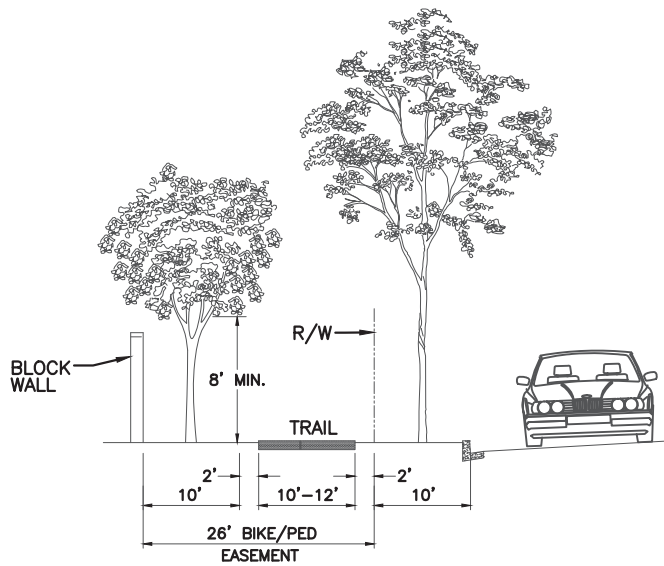
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MAR. 2020

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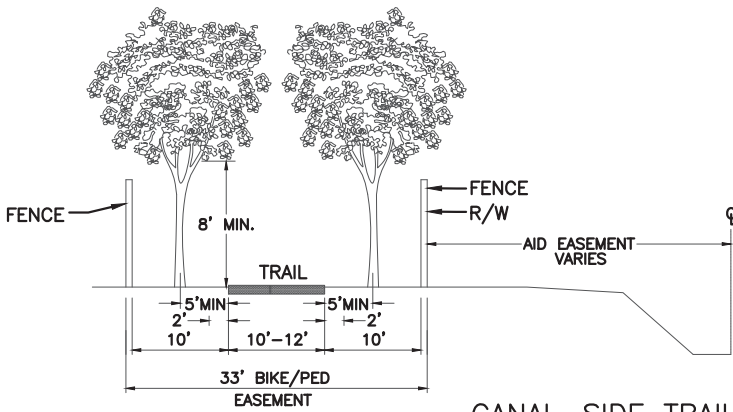
**CONCRETE  
MULTI-PURPOSE TRAIL**

**CITY OF REEDLEY**

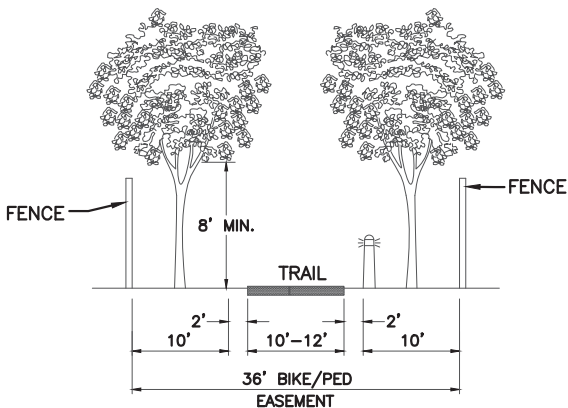
**ST-77**



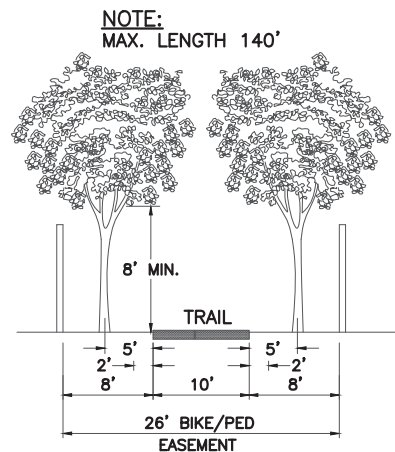
MAJOR STREET TRAIL



CANAL-SIDE TRAIL



OFF-STREET TRAIL



CONNECTOR TRAIL

GENERAL NOTES:

R=155' MIN. (25 mph)

EASEMENTS SHOWN ARE MINIMUMS.  
ADDITIONAL WIDTHS MAY BE NEEDED  
FOR GRADING & DRAINAGE PURPOSES.

CROSS SLOPES = 2% FOR TRAIL  
2' SHOULDER

TRAIL DESIGN SHALL COMPLY WITH  
CHAPTER 1000 OF THE CALTRANS  
HIGHWAY DESIGN MANUAL.

AN ADDITIONAL 12' EASEMENT REQUIRED  
FOR EQUESTRIAN PURPOSES.

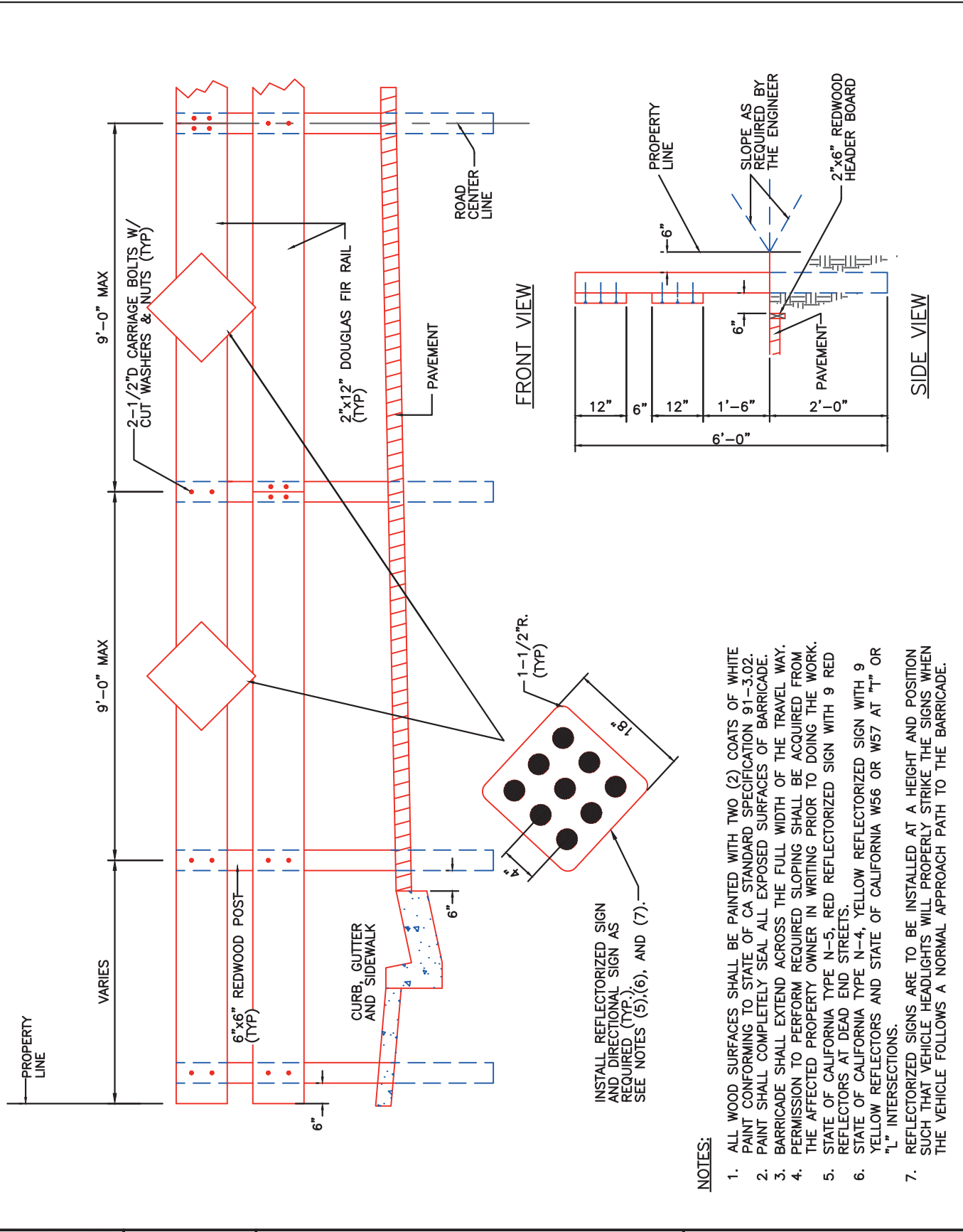


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REVISED:  
MAR. 2020  
REF. STD. DWG.:

TRAIL DETAILS

*CITY OF REEDLEY*

**ST-78**



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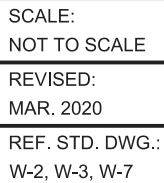
REVISED:  
MAR. 2020

REF. STD. DWG.:

## TEMPORARY TIMBER BARRICADE

CITY OF REEDLEY

ST-79

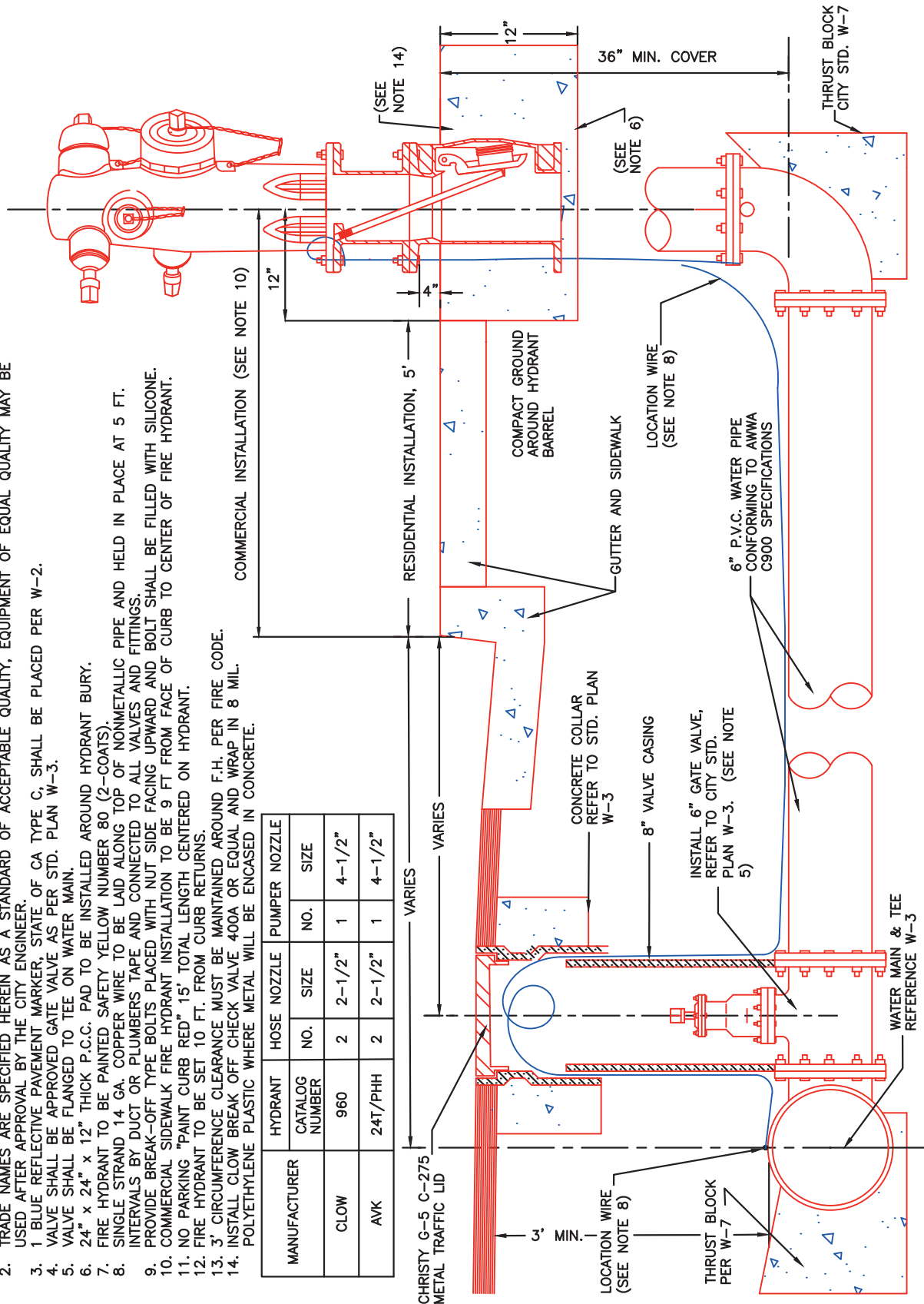


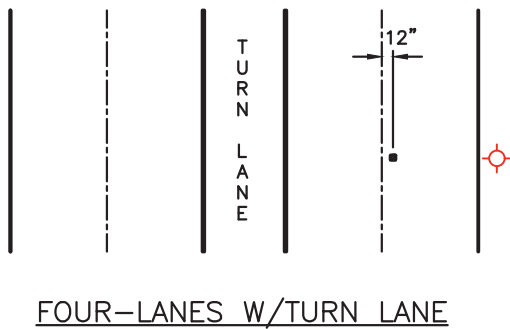
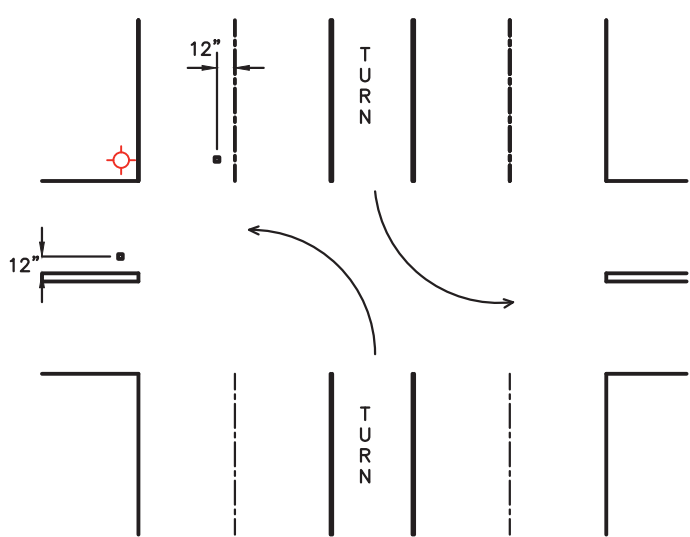
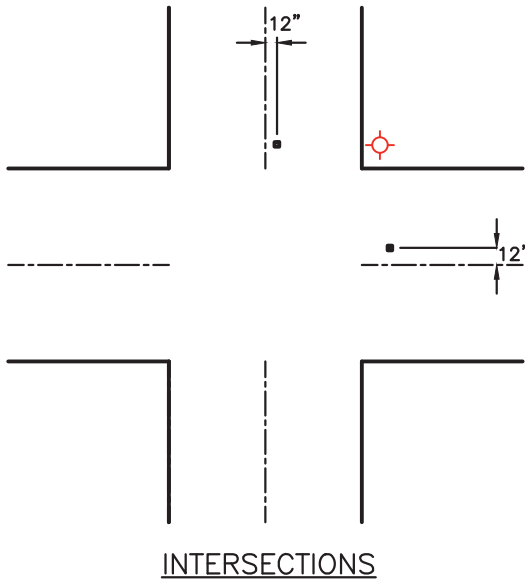
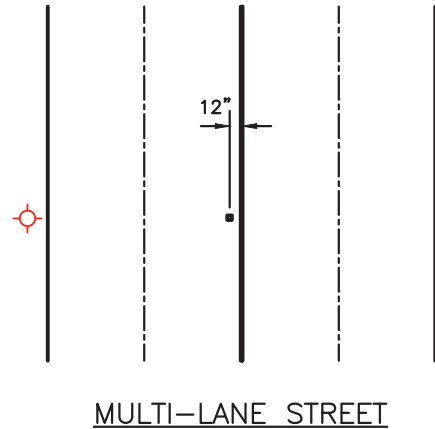
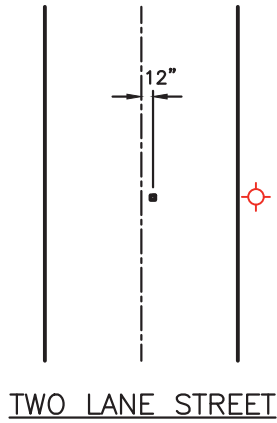
*CITY OF REEDLEY*

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W-1

- | MANUFACTURER | HYDRANT | HOSE NOZZLE |        | PUMPER NOZZLE |        |
|--------------|---------|-------------|--------|---------------|--------|
|              |         | NO.         | SIZE   | NO.           | SIZE   |
| CLOW         | 960     | 2           | 2-1/2" | 1             | 4-1/2" |
|              | 24T/PHH | 2           | 2-1/2" | 1             | 4-1/2" |
| AVK          |         |             |        |               |        |





⊗ FIRE HYDRANT

▣ PAVEMENT MARKER EQUAL TO  
STIMSONITE C88 OR C80  
"TWO WAY" BLUE MARKER



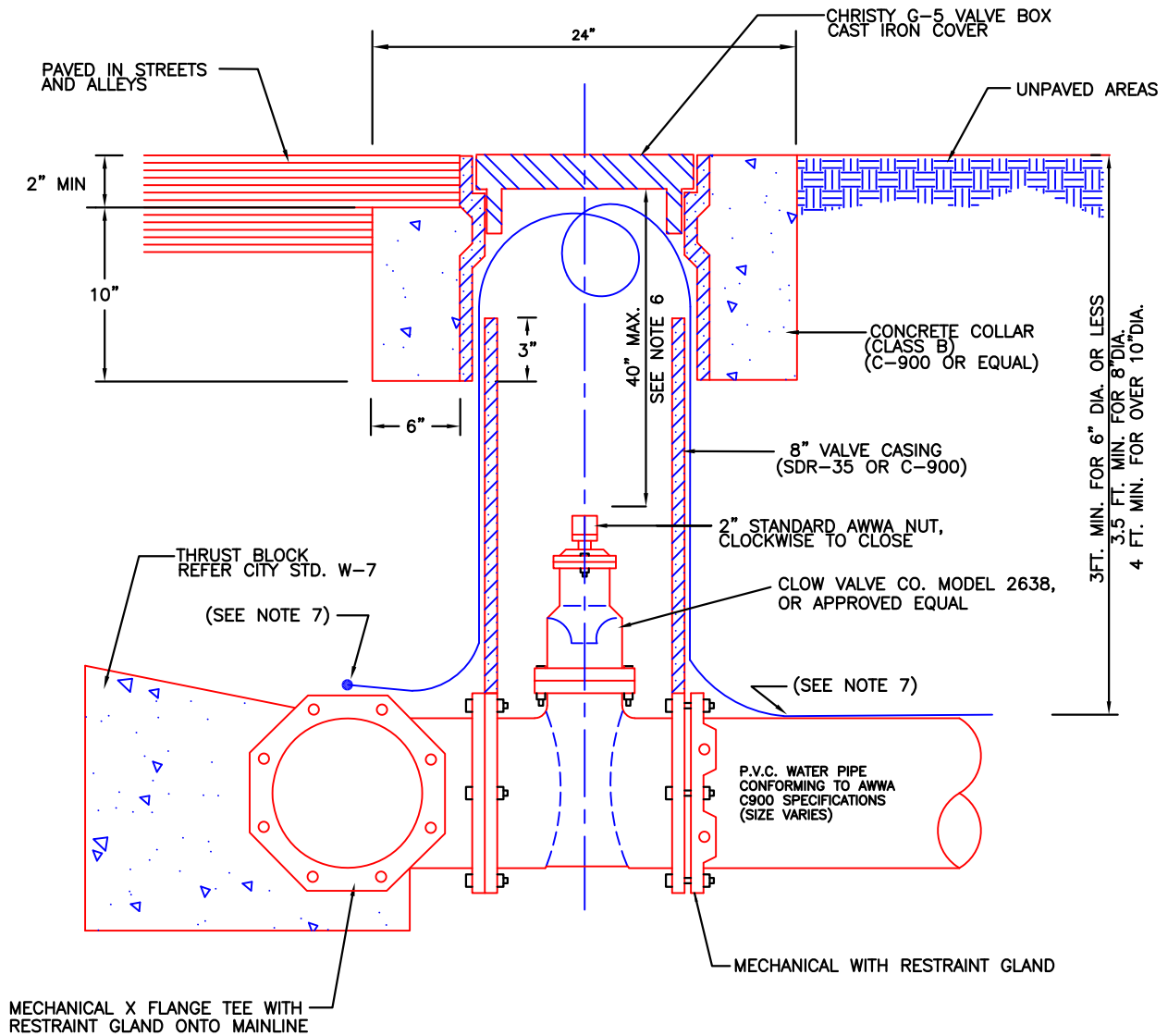
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REVISED:  
MAR. 2020  
REF. STD. DWG.:  
N/A

## TYPICAL FIRE HYDRANT MARKER LOCATIONS

*CITY OF REEDLEY*

**W-2**





**NOTES:**

1. CAST IRON COVER SHALL BE LABELED "WATER".
2. FULL DEPTH COLLAR SHALL BE INSTALLED IN DIRT AREAS ONLY.
3. NOMINAL DIAMETER OF VALVE SHALL EQUAL NOMINAL DIAMETER OF PIPE.
4. VALVE BOX SHALL BE CLEANED AND THE OPERATOR NUT VISIBLE AND OPERATIONAL PRIOR TO ACCEPTANCE OF WORK.
5. TRADE NAMES ARE SPECIFIED HEREIN AS A STANDARD OF ACCEPTABLE QUALITY. EQUIPMENT OF EQUAL QUALITY MAY BE USED AFTER APPROVAL BY THE CITY ENGINEER.
6. IF DISTANCE FROM THE VALVE BOX COVER TO THE OPERATING NUT EXCEEDS 40 INCHES AN APPROVED EXTENSION MAST SHALL BE INSTALLED. REFER TO W-3A.
7. SINGLE STRAND 14 GAUGE COPPER WIRE TO BE LAID ALONG TOP OF NON-METALLIC PIPE AND HELD IN PLACE AT 5 FOOT INTERVALS BY DUCT OR PLUMBERS TAPE AND CONNECTED TO ALL VALVES AND FITTINGS.
8. STAINLESS STEEL MECHANICAL JOINT TAPPING SLEEVE MAY BE USED WITH EXISTING INSTALLATION AFTER APPROVAL BY THE CITY ENGINEER.



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REVISED:  
AUG. 2021

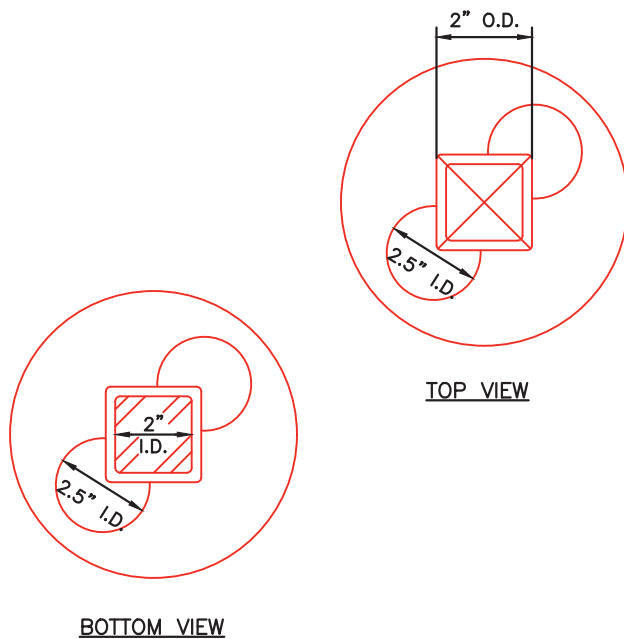
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W-3A, W-7

## GATE VALVE

*CITY OF REEDLEY*

**W-3**

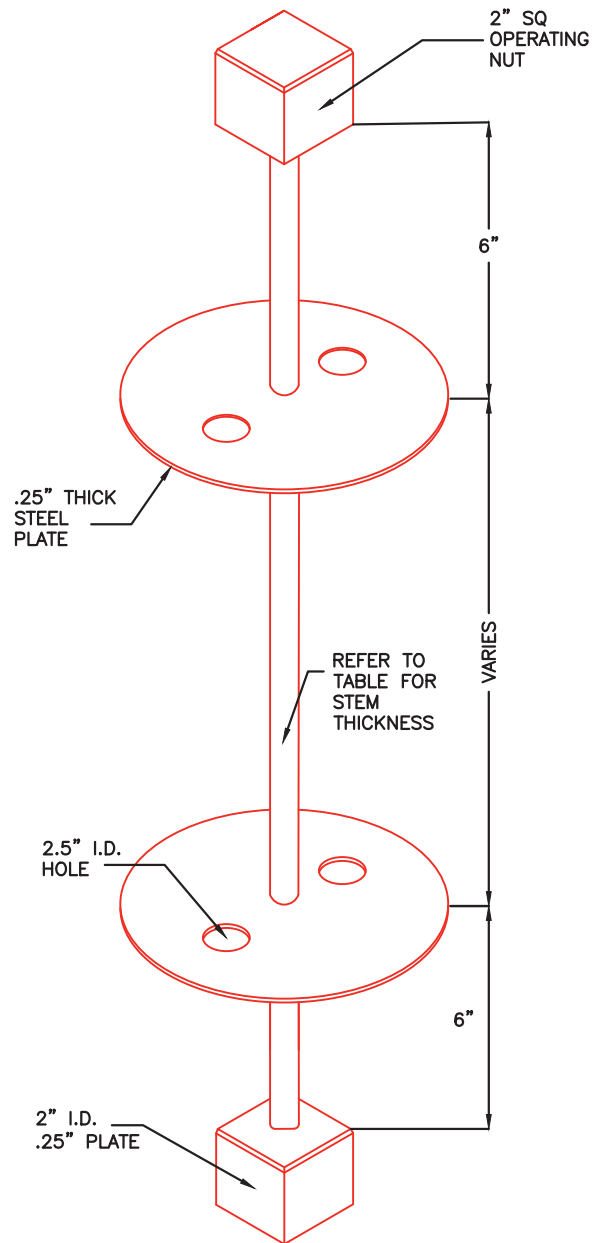




VALVE SIZE (INCHES)	MINIMUM EXTENSION STEM DIAMETER (INCHES)
2	3/4
3 & 4	7/8
6	1
8	1 1/8
10 & 12	1 1/4
14	1 3/8
16 & 18	1 1/2
20, 24, 30 & 36	1 3/4
42, 48 & 54	2

**NOTES:**

1. AN EXTENSION MAST IS REQUIRED IF DISTANCE FROM VALVE BOX COVER TO TOP OF OPERATING NUT EXCEEDS 40"
2. MAST SHALL BE CONSTRUCTED OF SOLID STEEL.
3. 2 HOLES AT 2.5" DIAMETER SHALL BE DRILLED IN EACH DISK IN ORDER TO PROVIDE VISUAL CONFORMATION THAT THIS IS AN EXTENSION MAST AND NOT THE TOP OF A VALVE.
4. CONNECTION FROM EXTENSION STEM TO OPERATING NUT TO VALVE SHALL WITHSTAND A PULL FORCE OF 300 FT-LBS WITHOUT DAMAGE.
5. COAT EXTENSION STEM PER CITY OF REEDLEY STANDARD SPECIFICATION. (NEEDS TO BE UPDATED)
6. REFER TO TABLE FOR STEM THICKNESS.
7. TOP OF FABRICATED EXTENSION SHALL BE 6"-12" FROM FINISHED GRADE.



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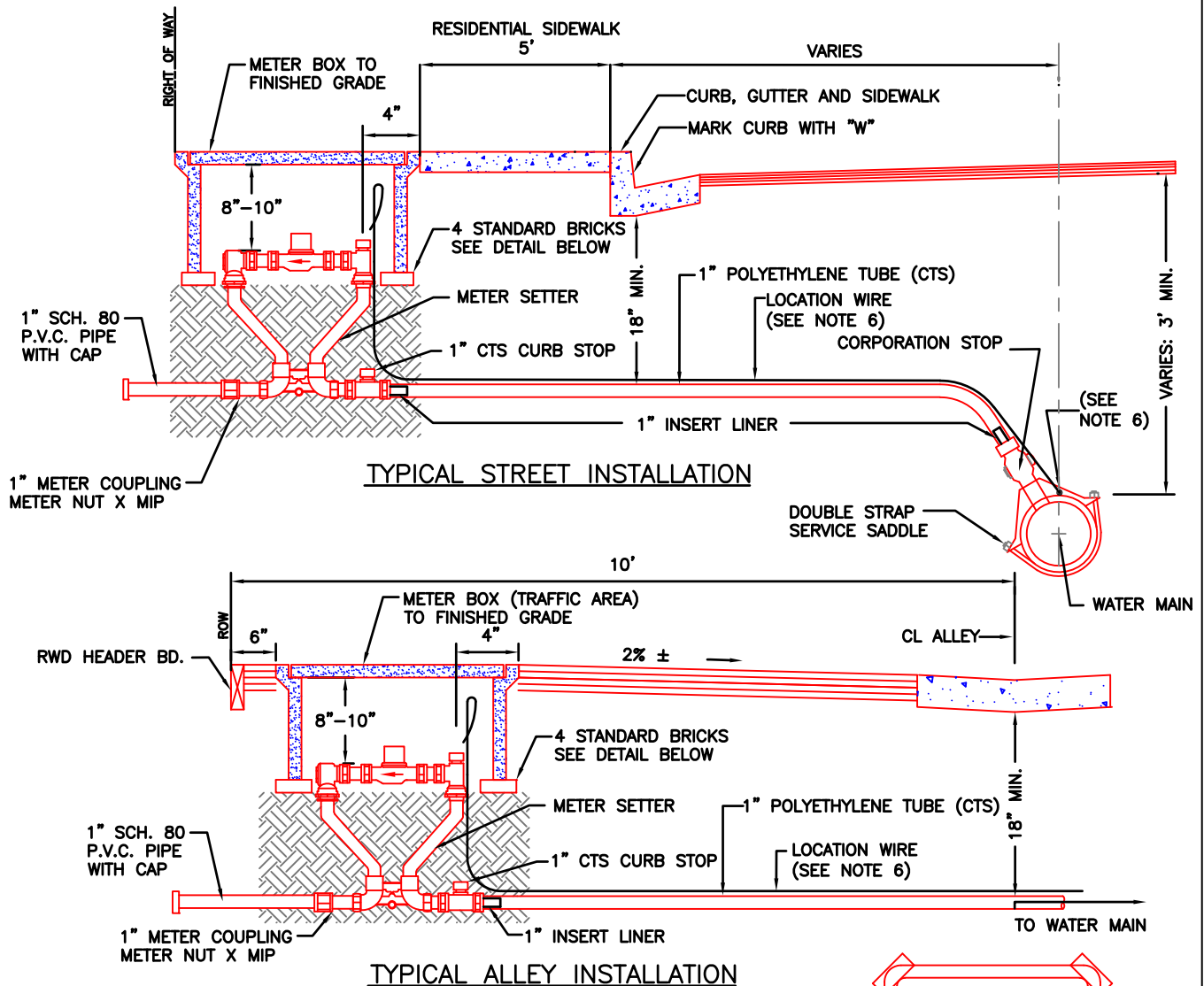
REVISED:  
MAR. 2020

REF. STD. DWG.:  
W-3

## EXTENSION MAST FOR WATER VALVES

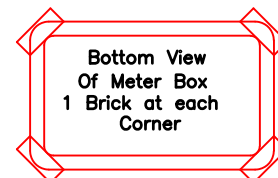
*CITY OF REEDLEY*

**W-3A**



#### NOTES:

1. WATER METER TO BE FURNISHED FROM THE CITY OF REEDLEY BUILDING DEPARTMENT AT THE OWNER'S EXPENSE AND INSTALLED BY THE CONTRACTOR.
2. NO GALVANIZED PIPE FITTINGS ALLOWED IN METER ASSEMBLY INSTALLATION.
3. NO PLUMBING PUTTY ALLOWED ON ANY FITTING.
4. ALL METALLIC PIPES AND FITTINGS SHALL BE WRAPPED WITH 8 MIL POLYETHYLENE TAPE SO THAT NO SOIL IS IN CONTACT WITH THE PIPES OR FITTINGS.
5. DIRT & DEBRIS SHALL BE REMOVED 2" BELOW METER.
6. SINGLE STRAND 14 GAUGE COPPER WIRE TO BE LAID ALONG TOP OF PIPE AND HELD IN PLACE AT 5 FT. INTERVALS BY DUCT OR PLUMBERS TAPE AND CONNECTED TO ALL VALVES AND FITTINGS.
7. TRADE NAMES ARE SPECIFIED AS A STANDARD OF ACCEPTABLE QUALITY. EQUIPMENT OF EQUAL QUALITY MAY BE USED AFTER APPROVAL BY THE CITY ENGINEER.
8. WATER SERVICE SHALL NOT BE LOCATED IN DRIVEWAY APPROACH AREAS.
9. THE CITY'S RESPONSIBILITY FOR A WATER SERVICE ENDS AT THE WATER METER COUPLING. THE CITY IS NOT RESPONSIBLE FOR THE CUSTOMER SHUT-OFF VALVE, OTHER VALVES OR PIPING LOCATED ON THE CUSTOMER'S SIDE OF THE METER.



MATERIALS SPECS	
DESCRIPTION	MANUFACTURER
METER BOX AND LID (NON-TRAFFIC AREAS)	CHRISTY B16 BOX N16R REINFORCED CONCRETE LID
METER BOX AND LID (TRAFFIC AREAS)	CHRISTY B1324 BOX R.C. STEEL FRAME - LID W/ READER DOOR
CTS CURB STOP	FORD B43-444W-NL
CORPORATION STOP	JONES E-3403 FORD F1100-4-NL
DOUBLE STRAP SERVICE SADDLE (ASTM C900 PVC PIPE - IP THREADS)	ROMAC 202S SMITH BLAIR 317
DOUBLE STRAP SERVICE SADDLE (EXISTING AC PIPE - IP THREADS)	ROMAC 202S SMITH-BLAIR 313
1" INSERT LINER CTS	FORD INSERT-52 JONES J-2808
1" METER COUPLING	FORD C38-44-2-625-NL
12" METER SETTER	FORD 40 SERIES VBH44-12W-NL



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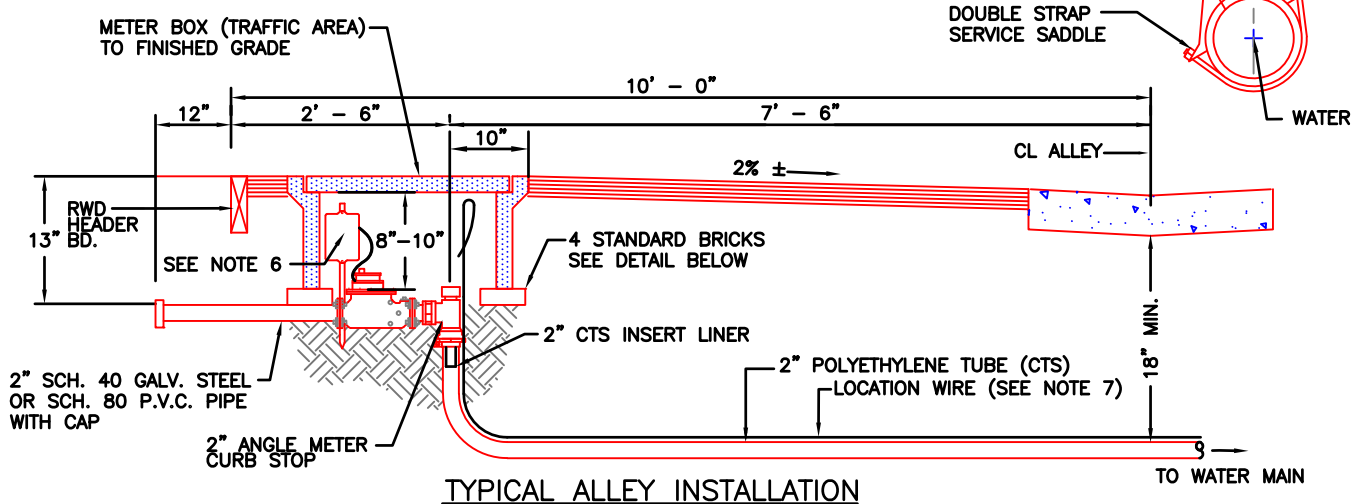
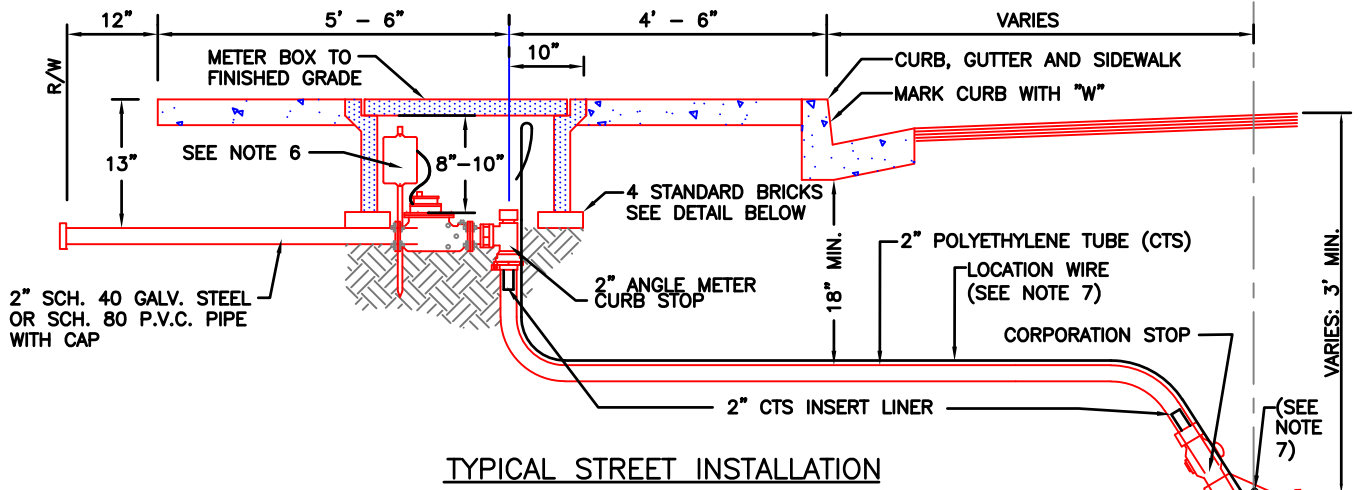
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## ONE INCH WATER SERVICE

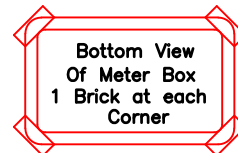
CITY OF REEDLEY

W-4



#### NOTES:

1. WATER METER TO BE FURNISHED FROM THE CITY OF REEDLEY BUILDING DEPARTMENT AT THE OWNER'S EXPENSE AND INSTALLED BY THE CONTRACTOR.
2. INSTALL METER WITH METER CONNECTION ADAPTERS.
3. NO GALVANIZED PIPE FITTINGS ARE TO BE USED IN METER ASSEMBLY INSTALLATION.
4. NO PLUMBING PUTTY ALLOWED ON ANY FITTING.
5. THE INSIDE OF THE METER BOX SHALL BE CLEANED SUCH THAT THE METER AND METER STOPS ARE ACCESSIBLE PRIOR TO THE ACCEPTANCE OF THE WORK.
6. RADIO TRANSMITTER SHALL BE MOUNTED (LABEL SIDE FACING UP) INSIDE METER BOX ON A 3/4" X 24" SCH. 40 PVC STAKE USING ZIP TIES (2) ON TOP & BOTTOM. TRANSMITTER SHALL BE MOUNTED ON CUSTOMER SIDE OF BOX, 1" BELOW BOTTOM OF BOX LID. LOGO ON TRANSMITTER SHALL BE FACING THE STREET/ALLEY.
7. SINGLE STRAND 14 GAUGE COPPER WIRE TO BE LAID ALONG TOP OF PIPE AND HELD IN PLACE AT 5 FT. INTERVALS BY DUCT OR PLUMBERS TAPE AND CONNECTED TO ALL VALVES AND FITTINGS.
8. TRADE NAMES ARE SPECIFIED AS A STANDARD OF ACCEPTABLE QUALITY. EQUIPMENT OF EQUAL QUALITY MAY BE USED AFTER APPROVAL BY THE CITY ENGINEER.
9. THE CITY'S RESPONSIBILITY FOR A WATER SERVICE ENDS AT THE WATER METER COUPLING. THE CITY IS NOT RESPONSIBLE FOR THE CUSTOMER SHUT-OFF VALVE, OTHER VALVES OR PIPING LOCATED ON THE CUSTOMER'S SIDE OF THE METER.



MATERIALS SPECS	
DESCRIPTION	MANUFACTURER
METER BOX AND LID (NON-TRAFFIC AREAS)	CHRISTY N36 BOX N36 REINFORCED CONCRETE LID
METER BOX AND LID (TRAFFIC AREAS)	CHRISTY B1730 BOX R.C. STEEL FRAME - LID W/ READER DOOR
CURB STOP	JONES E-1975W FORD BFA43-777W-NL
CORPORATION STOP	JONES E-1935 FORD FB1100-7-NL
DOUBLE STRAP SERVICE SADDLE (ASTM C900 PVC PIPE - IP THREADS)	ROMAC 202S SMITH BLAIR 317
DOUBLE STRAP SERVICE SADDLE (EXISTING AC PIPE - IP THREADS)	ROMAC 202S SMITH-BLAIR 313
2" INSERT LINER CTS	FORD 2" CTS INSERT-55 JONES J-2808



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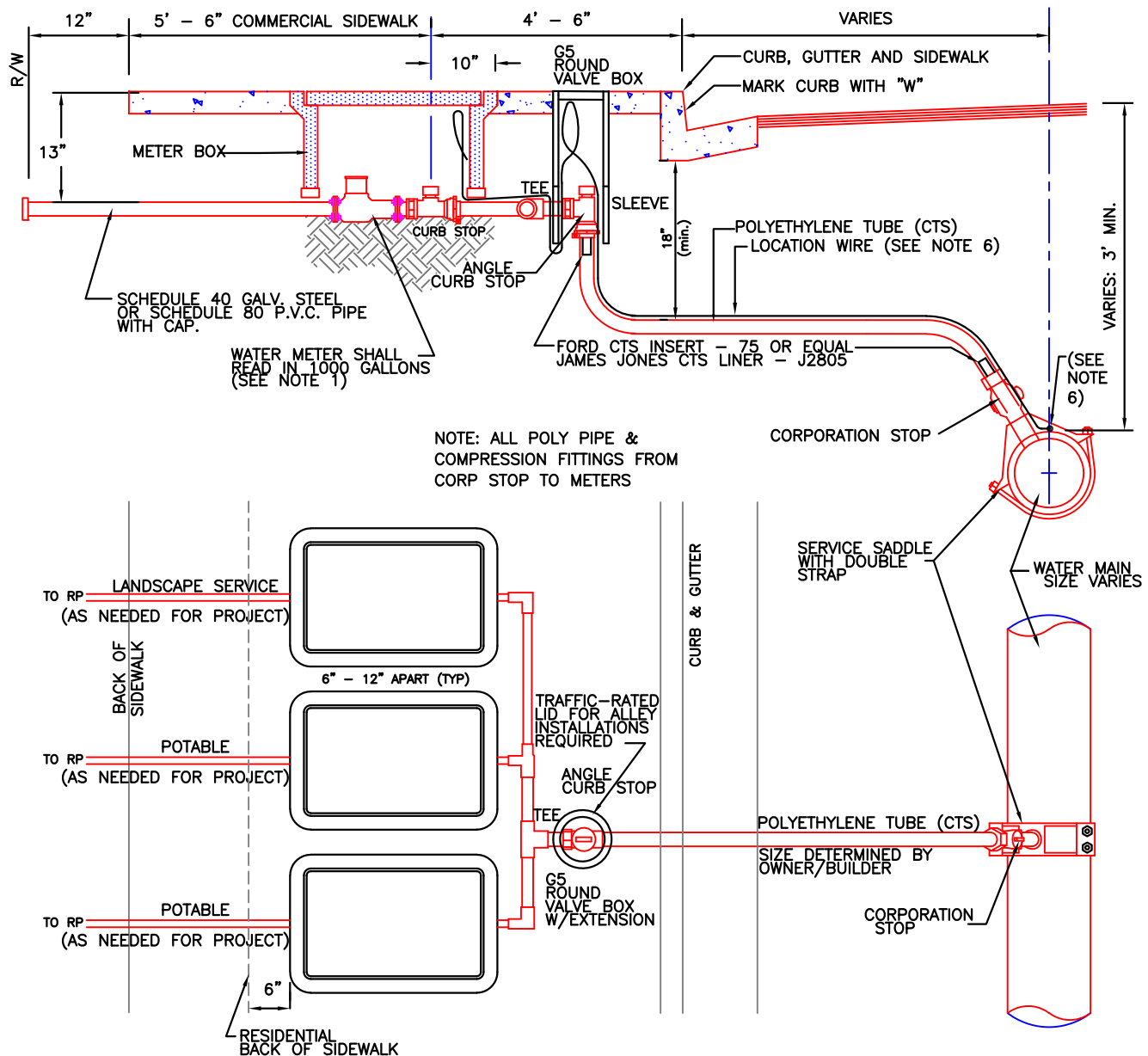
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N/A

## TWO INCH WATER SERVICE

CITY OF REEDLEY

W-5



#### NOTES:

1. METERS SHALL BE PURCHASED FROM THE CITY OF REEDLEY BUILDING DEPARTMENT.
2. VALVE BOXES SHALL BE BROUGHT TO PROPER GRADE PRIOR TO ACCEPTANCE OF WORK.
3. THE INSIDE OF THE VALVE BOXES SHALL BE CLEANED SUCH THAT THE METER AND METER STOPS ARE ACCESSIBLE AND OPERATIONAL PRIOR TO THE ACCEPTANCE OF THE WORK.
4. TRADE NAMES ARE SPECIFIED HEREIN AS A STANDARD OF ACCEPTABLE QUALITY. EQUIPMENT OF EQUAL QUALITY MAY BE USED AFTER APPROVAL BY THE CITY ENGINEER.
5. DIELECTRIC FITTING REQUIRED BETWEEN CURB STOP AND GALVANIZED STEEL PIPE HOUSE SERVICE.
6. SINGLE STRAND 14 GAUGE COPPER WIRE TO BE LAID ALONG TOP OF NON-METALLIC PIPE AND HELD IN PLACE AT 5 FT. INTERVALS BY DUCT OR PLUMBERS TAPE AND CONNECTED TO ALL VALVES AND FITTINGS.
7. NO PLUMBING PUTTY ALLOWED ON ANY FITTING.
8. FOR 2" METERS OR LARGER, RADIO TRANSMITTER SHALL BE MOUNTED (LABEL SIDE FACING UP) INSIDE METER BOX, ON A 3/4" X 24" SCH. 40 PVC STAKE.
9. MANIFOLDS ACCOMMODATING 2" OR LARGER METERS MUST BE APPROVED BY CITY ENGINEER.



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OCT. 2021

REF. STD. DWG.:  
W-4 AND W-5

## WATER SERVICE MANIFOLD ASSEMBLY

CITY OF REEDLEY

W-6

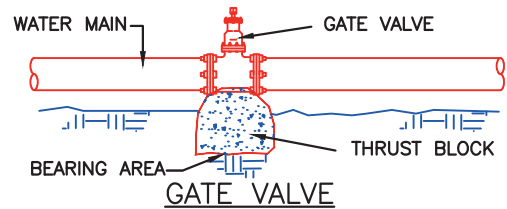
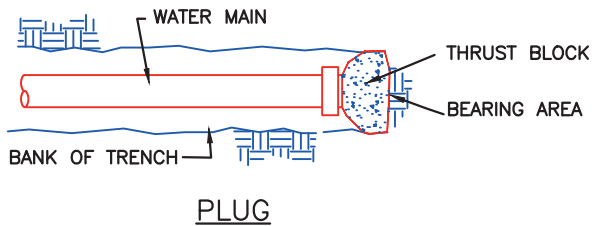
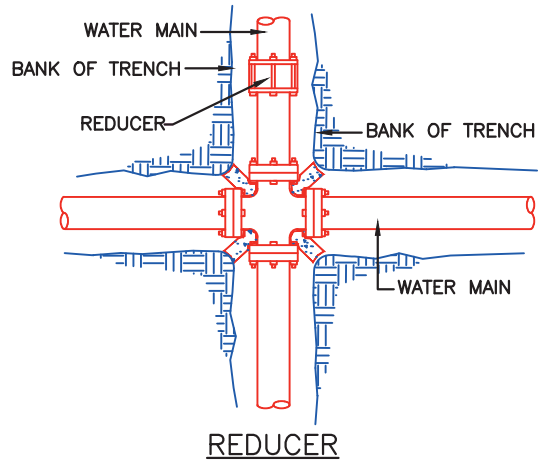
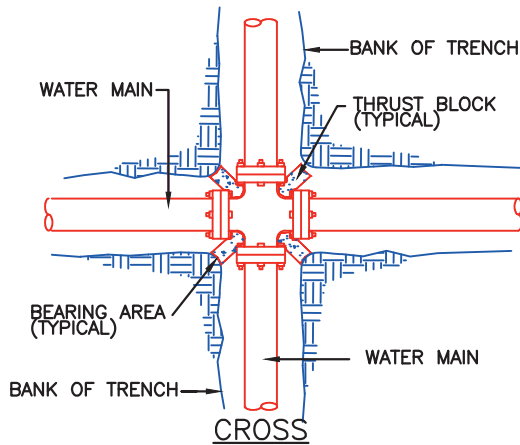
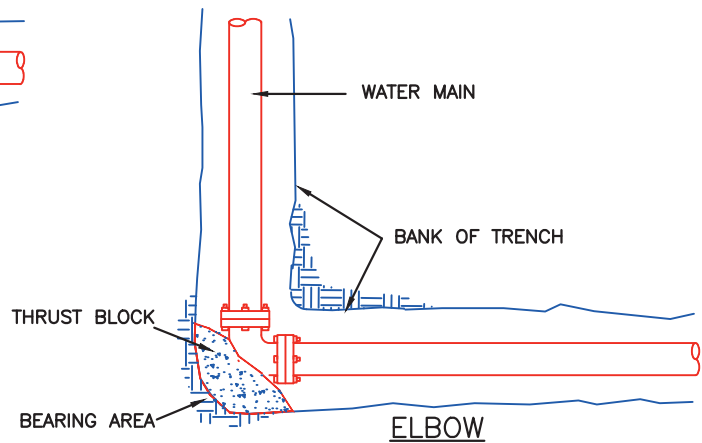
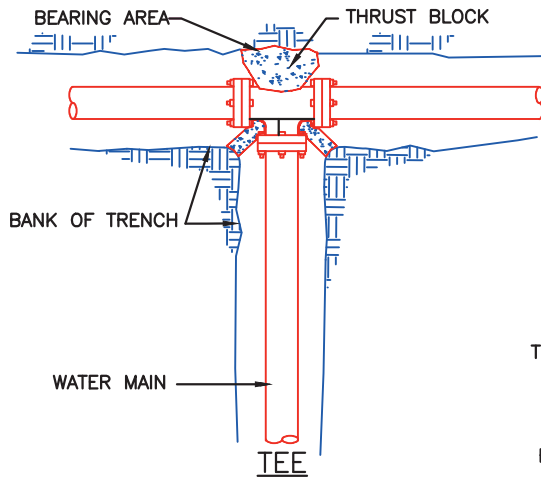


TABLE OF BEARING AREAS\* REQUIRED (IN SQUARE FEET)

PIPE DIAMETER	6"	8"	10"	12"
CROSS, TEE, ELBOW, OR PLUG.	3	5	8	12
90° BEND	4	7	12	16
45° BEND	2	3	5	6
22.5° BEND	1	2	3	3
VALVE	0	0	0	9
CROSS W/PLUG	4	7	12	16

\* AREAS GIVEN FOR CLASS 150 PIPE OF PRESSURE OF 150 P.S.I. IN SOIL WITH 2,000 P.S.F. CAPACITY. INSTALLATION USING DIFFERENT PIPE, TEST PRESSURE, AND/OR SOIL TYPES SHOULD ADJUST AREAS ACCORDINGLY, SUBJECT TO APPROVAL OF CITY ENGINEER.

NOTES:

1. ENGINEER TO COMPUTE BEARING AREAS FOR CASES NOT COVERED HEREIN.
2. CONCRETE FOR THRUST BLOCKS SHALL BE CLASS "B" CONCRETE (5 SACK MINIMUM.)
3. MINIMUM THICKNESS OF THRUST BLOCKS TO BE 6 INCHES.
4. THRUST BLOCK TO BE POURED AGAINST UNDISTURBED SOIL.
5. THRUST BLOCKS SHALL BE POURED A MINIMUM OF 5 DAYS BEFORE PRESSURIZING THE SYSTEM.
6. ALL PIPE IN CONTACT WITH CONCRETE SHALL BE WRAPPED WITH PLASTIC TO A THICKNESS OF 20 MIL



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## CONCRETE THRUST BLOCKS

CITY OF REEDLEY

W-7

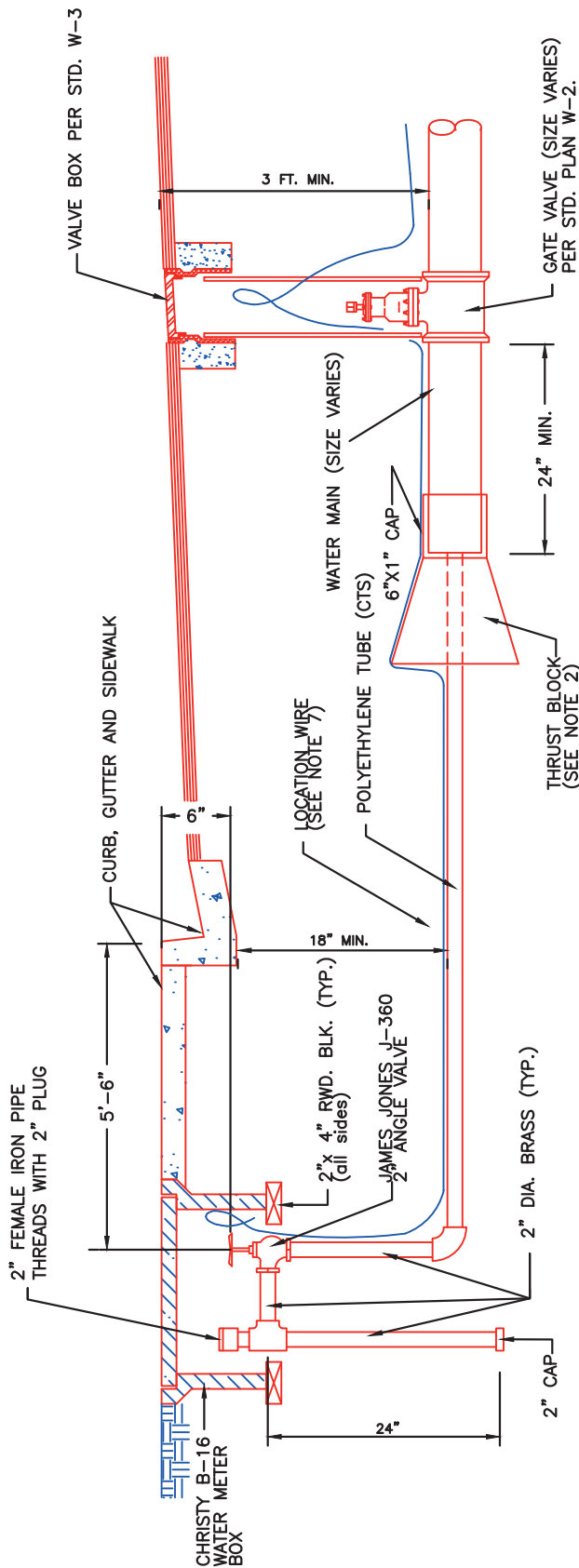


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W-2, W-3, W-4

## 2" BLOW-OFF ASSEMBLY

CITY OF REEDLEY

W-8

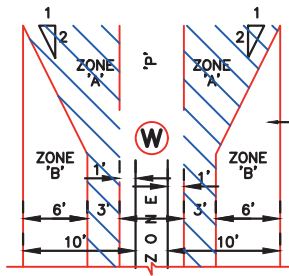


### TYPICAL INSTALLATION

#### NOTES:

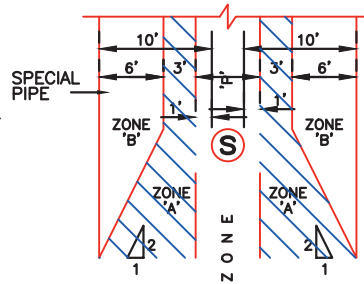
1. ALTERNATE CONNECTION TO BE INSTALLED ONLY WHEN ALLOWED IN THE SPECIAL PROVISION BY THE CITY ENGINEER.
2. THE 2" PIPE ENCASED WITH THE CONCRETE THRUST BLOCK SHALL BE PAINTED WITH RUST RESISTANT PAINT AND WRAPPED WITH PLASTIC TAPE TO A THICKNESS OF 20 MILS.
3. WATER VALVE CASING AND VALVE BOX AND LID SHALL BE INCLUDED IN ASSEMBLY WHEN INSTALLED AS A TYPICAL INSTALLATION.
4. NO SERVICE SHALL BE LOCATED BETWEEN WATER VALVE AND THE END OF THE WATER MAIN.
5. BLOW-OFF NOT ALLOWED ON CUL-DE-SAC.
6. VALVE BOXES SHALL BE BROUGHT TO PROPER GRADE PRIOR TO ACCEPTANCE OF WORK.
7. SINGLE STRAND 14 GA. COPPER WIRE TO BE LAID ALONG TOP OF NONMETALLIC PIPE AND HELD IN PLACE AT 5 FT. INTERVALS BY DUCT OR PLUMBERS TAPE AND CONNECTED TO ALL VALVES AND FITTINGS.





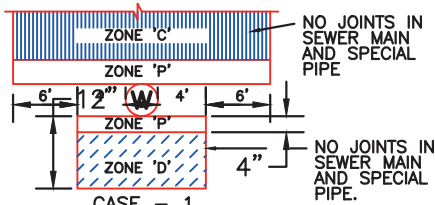
CASE - 1

### PARALLEL CONSTRUCTION



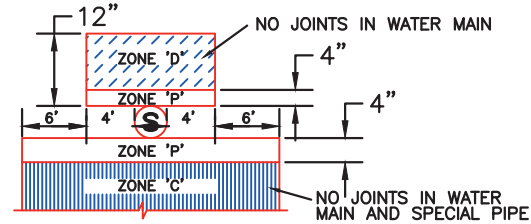
CASE - 2

### PARALLEL CONSTRUCTION



CASE - 1

### PERPENDICULAR CONSTRUCTION



CASE - 2

### PERPENDICULAR CONSTRUCTION

## SPECIAL CONSTRUCTION REQUIREMENTS

#### CASE 1: NEW SEWER BEING INSTALLED - NEW OR EXISTING WATER MAIN

IF A NEW SEWER IS CONSTRUCTED WITHIN ZONE A, B, C, OR D OF A PROPOSED OR EXISTING WATER MAIN, THE FOLLOWING SPECIAL REQUIREMENTS WILL APPLY FOR THE SEWER.

##### ZONE

##### SPECIAL REQUIREMENTS

- A. SEWER LINES WILL NOT BE PERMITTED IN THIS ZONE WITHOUT SPECIAL PERMISSION FROM THE SWRCB AND THE DDW
- B. A SEWER LINE PLACED PARALLEL TO A WATER MAIN SHALL BE CONSTRUCTED OF EXTRA-STRENGTH VITRIFIED CLAY PIPES WITH COMPRESSION JOINTS OR CLASS 4000, OR POLY (VINYL CHLORIDE) PIPE WITH RUBBER RING JOINTS; OR REINFORCED CONCRETE PRESSURE PIPE WITH REINFORCED CONCRETE COLLARS AROUND THE JOINTS WHICH COLLARS SHALL HAVE A MINIMUM THICKNESS OF 6" AND A MINIMUM LENGTH ALONG THE PIPE OF 6" ON EITHER SIDE OF THE JOINT; OR CAST IRON PIPE WITH COMPRESSION JOINTS.
- C OR D. A SEWER LINE CROSSING A WATER MAIN SHALL BE CONSTRUCTED OF CLASS 150 OR STRONGER CAST IRON PIPE WITH HOT DIP BITUMINOUS COATING AND APPROVED MECHANICAL JOINTS; OR A CONTINUOUS SECTION OF CLASS 200 POLY(VINYL CHLORIDE) PIPE; OR REINFORCED CONCRETE PRESSURE PIPE CENTERED OVER THE PIPE BEING CROSSED; OR ANY SEWER PIPE ENCASED WITHIN A CONTINUOUS STEEL CASING SHALL HAVE A THICKNESS OF NOT LESS THAN 1/2" AND ALL VOIDS BETWEEN THE SEWER LINE AND THE CASING PRESSURE GROUTED WITH SAND-CEMENT GROUT; OR (ZONE-D ONLY) ANY SEWER PIPE SEPARATED BY A REINFORCED CONCRETE BLANKET AS SHOWN IN STANDARD PLAN NO. W-10.
- P. PROHIBITED ZONE

#### CASE 2: NEW WATER MAIN BEING INSTALLED - EXISTING SEWER

IF A PROPOSED WATER MAIN WILL BE LOCATED WITHIN ZONE A, B, C, OR D, THE FOLLOWING SPECIAL REQUIREMENTS WILL APPLY FOR THE PROPOSED WATER MAIN.

##### ZONE

##### SPECIAL REQUIREMENTS

- A. NO WATER MAIN SHALL BE CONSTRUCTED WITHOUT PERMISSION FROM THE DEPARTMENT OF PUBLIC HEALTH.
- B. IF THE SEWER PARALLELING THE WATER MAIN DOES NOT MEET THE CASE-1, ZONE-B REQUIREMENTS, THE WATER MAIN SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE WITH HOT DIP BITUMINOUS COATING; OR CLASS 200, TYPE II OR CLASS 200 PRESSURE RATED POLY(VINYL CHLORIDE) PIPE OR EQUIVALENT.
- C. IF THE SEWER CROSSING THE WATER MAIN DOES NOT MEET THE CASE-1, ZONE-C REQUIREMENTS, THE WATER MAIN SHALL HAVE NO JOINTS IN ZONE-C AND BE CONSTRUCTED OF DUCTILE IRON PIPE WITH HOT DIP BITUMINOUS COATING; OR CLASS 200 PRESSURE RATED POLY(VINYL CHLORIDE) PIPE OR EQUIVALENT AND THE SEWER SHALL BE ENCASED WITH REINFORCED CONCRETE AS SHOWN IN STANDARD PLAN W-10.
- D. IF THE SEWER CROSSING THE WATER MAIN DOES NOT MEET THE REQUIREMENTS FOR ZONE-D, CASE-1, THE WATER MAIN SHALL HAVE NO JOINTS WITHIN FOUR (4') FEET FROM EITHER SIDE OF THE SEWER AND SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE WITH HOT DIP BITUMINOUS COATING; OR CLASS 200 PRESSURE RATED POLY(VINYL CHLORIDE) PIPE OR EQUIVALENT; OR DIPPED AND WRAPPED 1/2" THICK WELDED STEEL PIPE.
- P. PROHIBITED ZONE

#### NOTES:

1. ALL DIMENSIONS ARE FROM THE OUTSIDE OF THE WATER MAIN TO THE OUTSIDE OF THE SEWER LATERAL OR MAIN.
2. COMPRESSION JOINTS ARE RUBBER RING OR GASKET JOINTS.
3. MECHANICAL JOINTS ARE BOLTED JOINTS.



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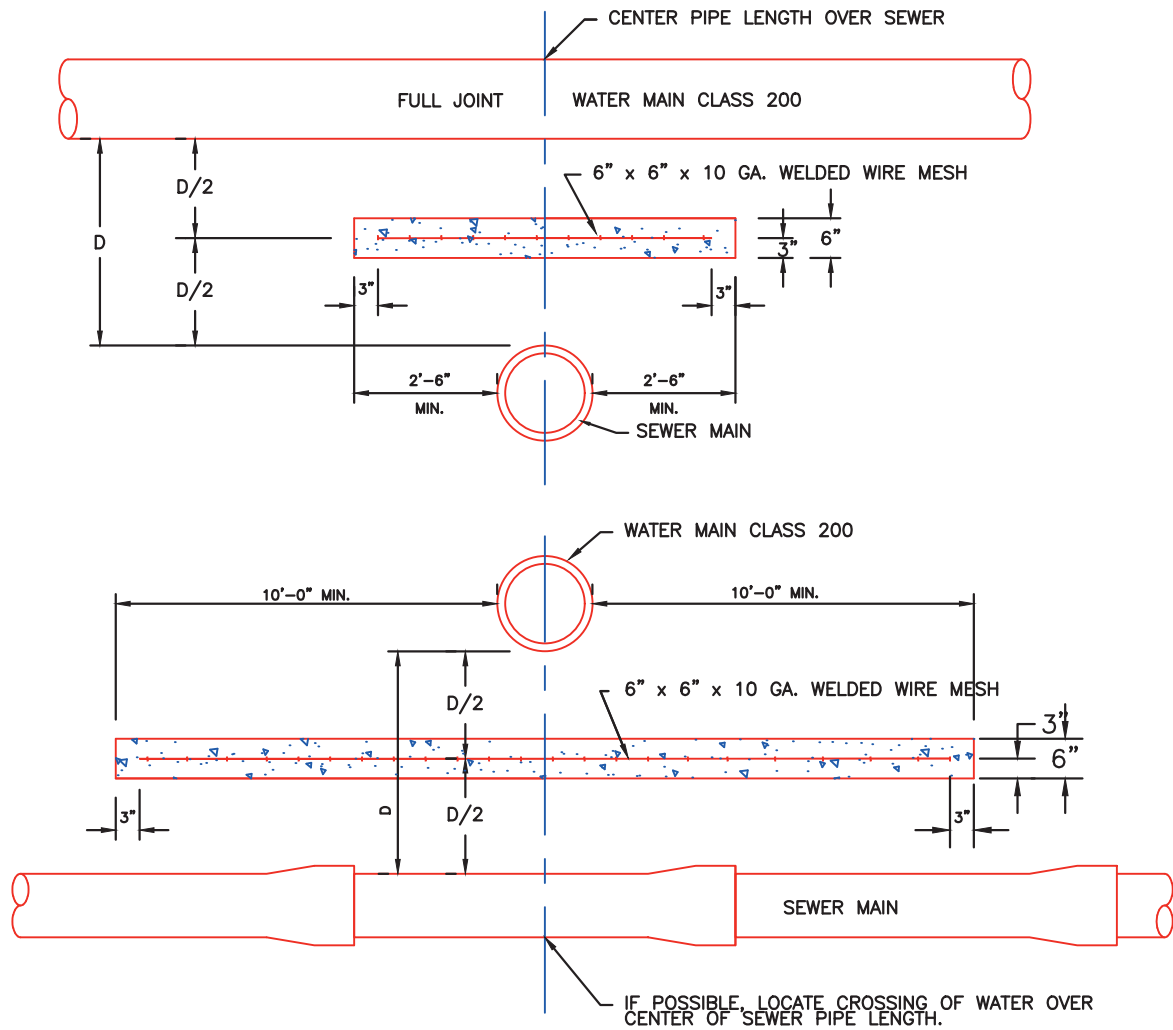
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MAR. 2020

REF. STD. DWG.:

## SPECIAL CONSTRUCTION REQUIREMENTS FOR SEWER AND WATER SEPARATION

CITY OF REEDLEY

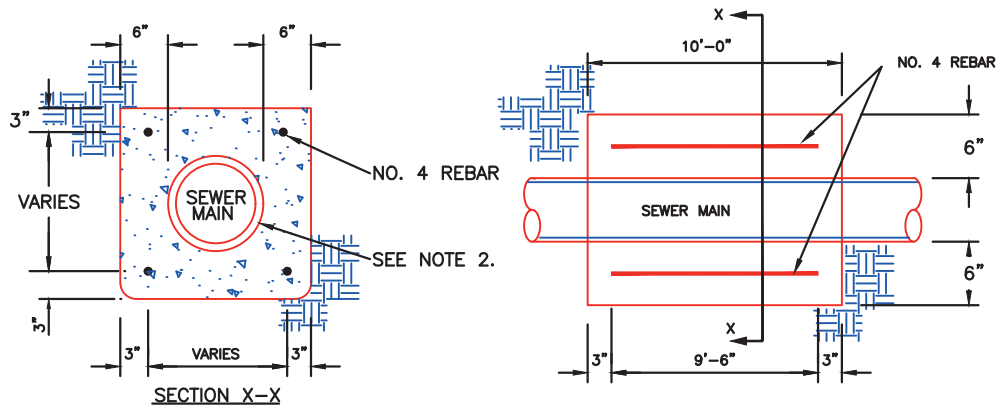
W-9



### REINFORCED CONCRETE BLANKET

#### NOTES:

1. CONCRETE SHALL BE CLASS "B" (5 SACK CEMENT / C.Y. CONCRETE)



### REINFORCED CONCRETE ENCASEMENT

#### NOTES:

1. CONCRETE SHALL BE CLASS "B" (5 SACK CEMENT / C.Y. CONCRETE)
2. WRAP SEWER MAIN WITH 15 lb. FELT.



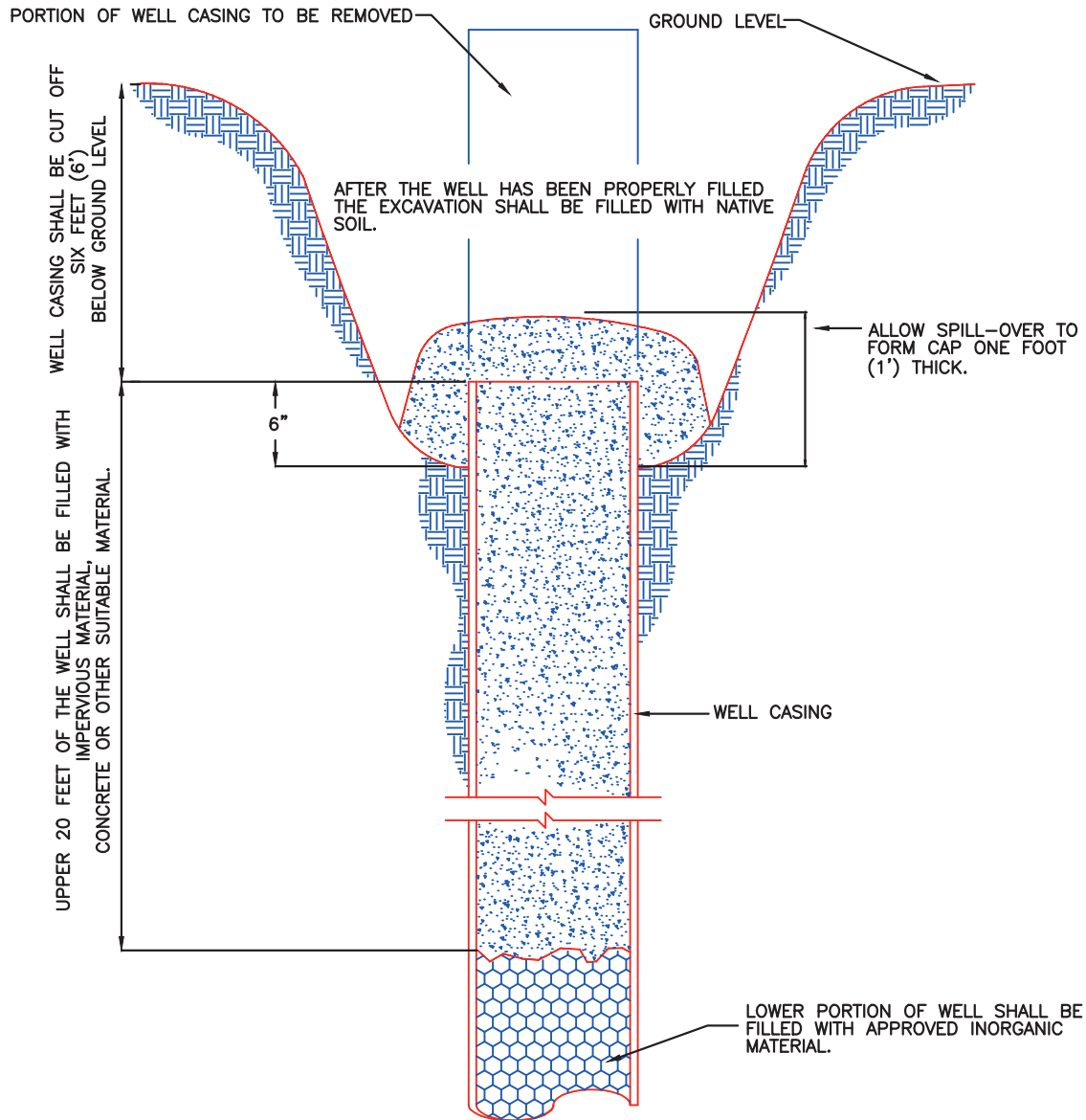
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REVISED:  
MAR. 2020  
REF. STD. DWG.:

## CONCRETE BLANKET / REINFORCED CONCRETE ENCASEMENT FOR SEWER AND WATER SEPERATION

CITY OF REEDLEY

W-10





### REQUIREMENTS FOR DESTRUCTION OF WELLS IN URBAN AREAS

#### NOTES:

1. DESTRUCTION OF ABANDONED WELL SHALL BE PER FRESNO COUNTY HEALTH DEPARTMENT SPECIFICATIONS.
2. DESTRUCTION OF ABANDONED WELL SHALL BE PERFORMED BY A PERSON WHO POSSESSES AN ACTIVE C-57 CONTRACTORS LICENSE.
3. A WELL ABANDONMENT PERMIT SHALL BE OBTAINED FROM THE COMMUNITY DEVELOPMENT DEPARTMENT PRIOR TO PERFORMANCE OF WORK.
4. UPPER 20' OF CASED WELL OR ENTIRE LENGTH OF TEST WELL OR UNCASED WELL SHALL BE FILLED IN ONE CONTINUOUS POUR WITH CONCRETE OR GROUT OR OTHER MATERIAL AS DEFINED IN "WATER WELL STANDARDS" STATE DEPARTMENT OF WATER RESOURCES BULLETIN #74 AND INSPECTED PRIOR TO COVERING.
5. THE EXPOSED WELL AND SURROUNDING EXCAVATION SHALL BE COVERED DURING ALL PERIODS OF INACTIVITY WITH A SUITABLE COVER SUFFICIENTLY ANCHORED TO PREVENT HAZARD TO THE PUBLIC AND/OR CONTAMINATION OF THE WELL



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MAR. 2020

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## WATER WELL ABANDONMENT

*CITY OF REEDLEY*

**W-11**



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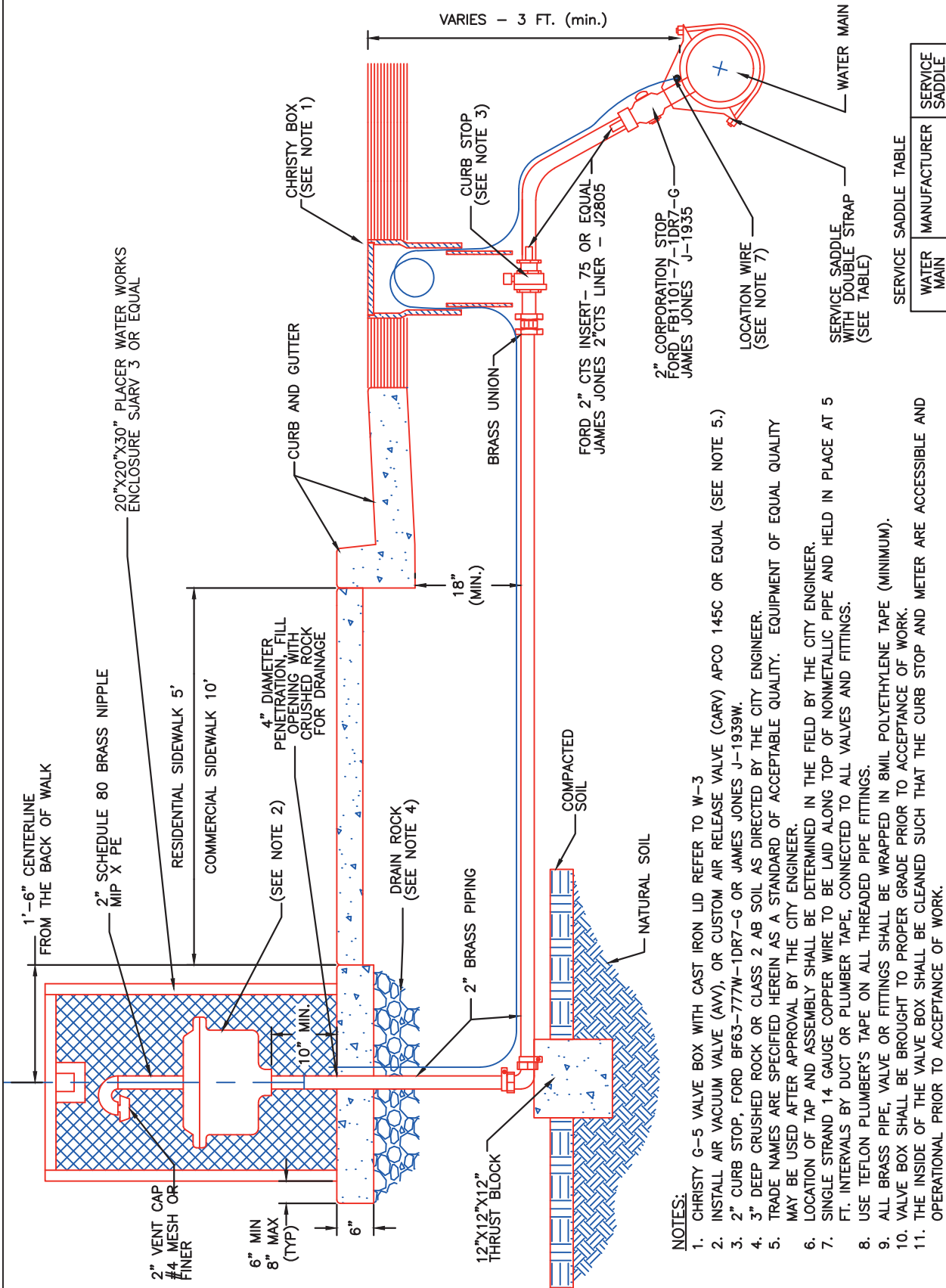
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MAR. 2020

REF. STD. DWG.:  
W-3

## 2" AIR-RELIEF ASSEMBLY

CITY OF REEDLEY

W-12

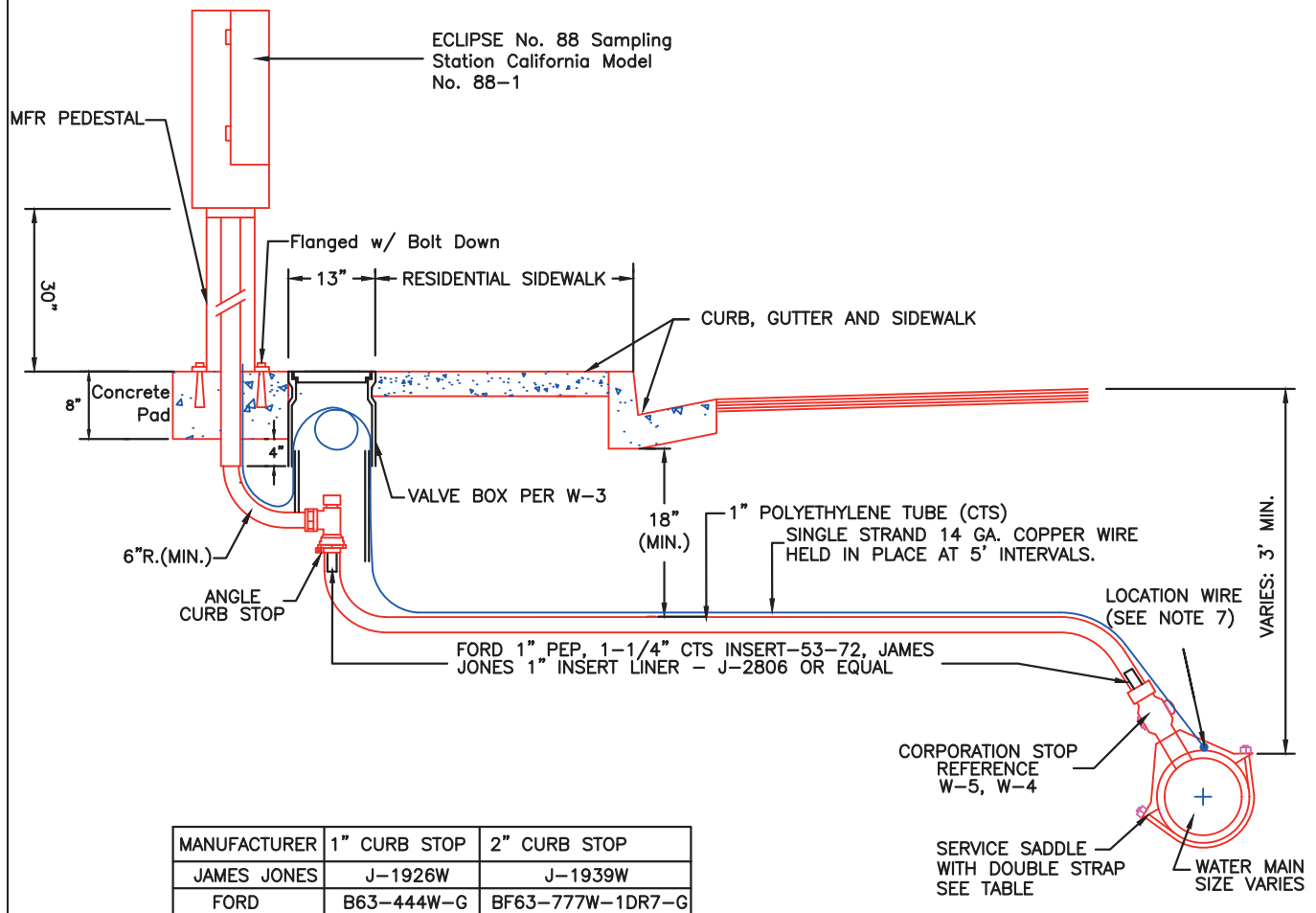


SERVICE SADDLE TABLE

WATER MAIN	MANUFACTURER	SERVICE SADDLE
ASTM C900 PVC PIPE	ROMAX	202 S
	SMITH - BLAIR	317

### NOTES:

1. CHRISTY G-5 VALVE BOX WITH CAST IRON LID REFER TO W-3
2. INSTALL AIR VACUUM VALVE (AVV), OR CUSTOM AIR RELEASE VALVE (CARV) APCO 145C OR EQUAL (SEE NOTE 5.)
3. 2" CURB STOP, FORD BF63-777W-1DR7-G OR JAMES JONES J-1939W.
4. 3" DEEP CRUSHED ROCK OR CLASS 2 AB SOIL AS DIRECTED BY THE CITY ENGINEER.
5. TRADE NAMES ARE SPECIFIED HEREIN AS A STANDARD OF ACCEPTABLE QUALITY. EQUIPMENT OF EQUAL QUALITY MAY BE USED AFTER APPROVAL BY THE CITY ENGINEER.
6. LOCATION OF TAP AND ASSEMBLY SHALL BE DETERMINED IN THE FIELD BY THE CITY ENGINEER.
7. SINGLE STRAND 14 GAUGE COPPER WIRE TO BE LAID ALONG TOP OF NONMETALLIC PIPE AND HELD IN PLACE AT 5 FT. INTERVALS BY DUCT OR PLUMBER TAPE, CONNECTED TO ALL VALVES AND FITTINGS.
8. USE TEFLON PLUMBER'S TAPE ON ALL THREADED PIPE FITTINGS.
9. ALL BRASS PIPE, VALVE OR FITTINGS SHALL BE WRAPPED IN 8MIL POLYETHYLENE TAPE (MINIMUM).
10. VALVE BOX SHALL BE BROUGHT TO PROPER GRADE PRIOR TO ACCEPTANCE OF WORK.
11. THE INSIDE OF THE VALVE BOX SHALL BE CLEANED SUCH THAT THE CURB STOP AND METER ARE ACCESSIBLE AND OPERATIONAL PRIOR TO ACCEPTANCE OF WORK.



#### NOTES:

1. TRADE NAMES ARE SPECIFIED HEREIN AS A STANDARD OF ACCEPTABLE QUALITY. EQUIPMENT OF EQUAL QUALITY MAY BE USED AFTER APPROVAL BY THE CITY ENGINEER.
2. DIELECTRIC FITTING REQUIRED BETWEEN CURB STOP AND GALVANIZED STEEL PIPE.
3. ALTERNATE CONNECTION TO BE INSTALLED ONLY WHEN ALLOWED IN THE SPECIAL PROVISIONS OR BY THE CITY ENGINEER.
4. CONCRETE SHALL BE CLASS B - 6 SACK MIX.
5. LOCATION SHALL BE DETERMINED IN FIELD BY CITY ENGINEER.
6. VALVE BOXES SHALL BE BROUGHT TO PROPER GRADE PRIOR TO ACCEPTANCE OF WORK.
7. SINGLE STRAND 14GA. COPPER WIRE TO BE LAID ALONG TOP OF NON-METALLIC PIPE & HELD IN PLACE AT 5 FT. INTERVALS BY DUCT TAPE AND CONNECTED TO ALL VALVES & FITTINGS.
8. SAMPLING STATION SHALL BE PAINTED W/GLIDDEN #554 DEEP GREEN EXTERIOR ENAMEL OR EQUAL AS APPROVED BY THE CITY ENGINEER.



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REVISED:  
MAR. 2020

REF. STD. DWG.:  
W-3, W-4, W-5

## WATER SAMPLING STATION

CITY OF REEDLEY

W-13



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W-3, W-7, W-17

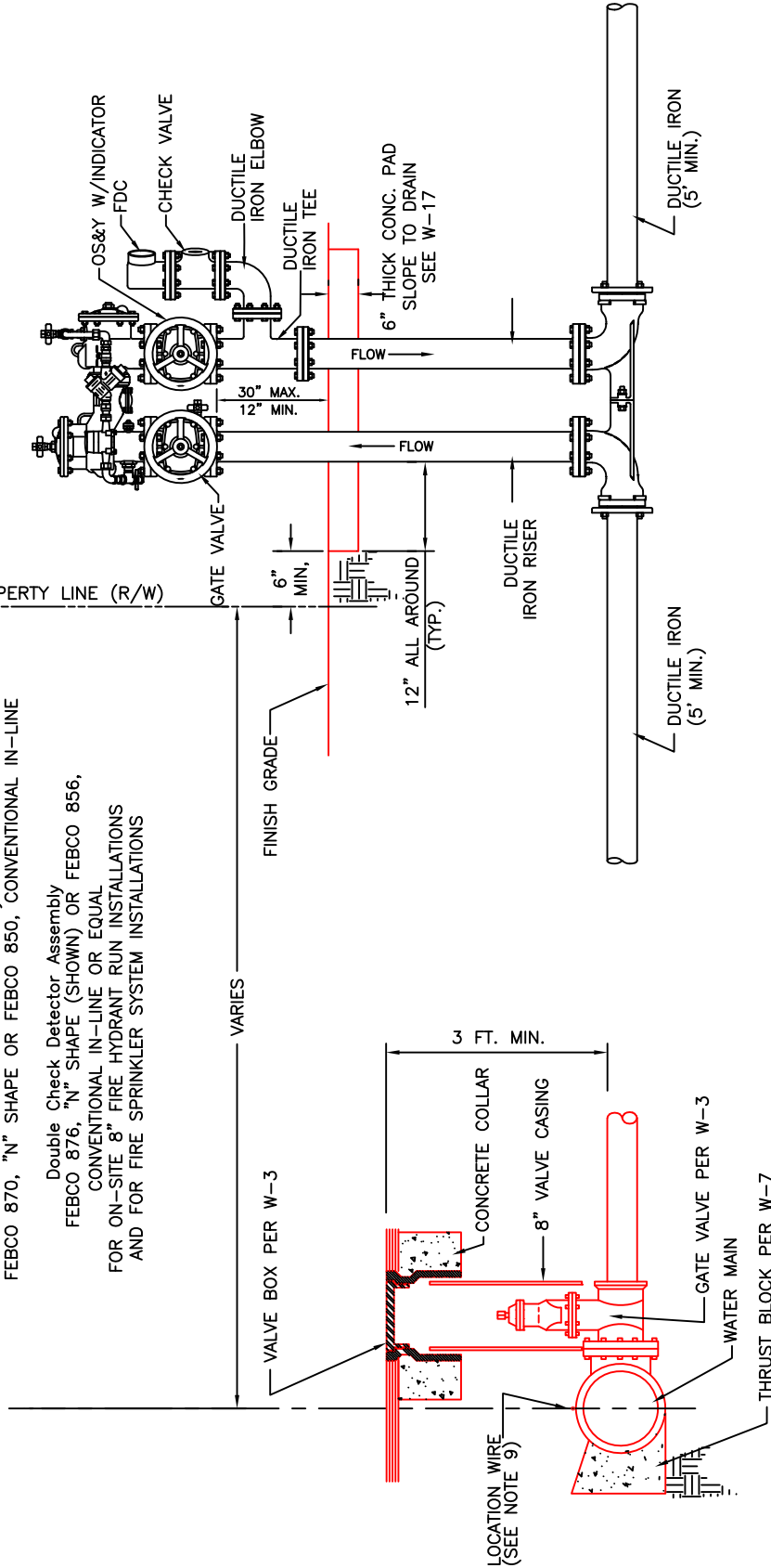
## DOUBLE CHECK DETECTOR CHECK ASSEMBLY APPROVED FOR FIRE SERVICE ONLY

CITY OF REEDLEY

W-14

Double Check Valve Assembly  
FEBCO 870, "N" SHAPE OR FEBCO 850, CONVENTIONAL IN-LINE

Double Check Detector Assembly  
FEBCO 876, "N" SHAPE (SHOWN) OR FEBCO 856,  
CONVENTIONAL IN-LINE OR EQUAL  
FOR ON-SITE 8" FIRE HYDRANT RUN INSTALLATIONS  
AND FOR FIRE SPRINKLER SYSTEM INSTALLATIONS



### NOTES:

1. APPROVED BACKFLOW PREVENTION ASSEMBLY SHALL BE INSTALLED ON EACH SERVICE LINE TO A CUSTOMER'S ON-SITE FIRE SYSTEM INCLUDING ONSITE FIRE HYDRANT(S).
2. REDUCED PRESSURE BACKFLOW ASSEMBLY SHALL BE LISTED ON THE UNIVERSITY OF SOUTHERN CALIFORNIA FOUNDATION FOR CROSS-CONNECTION CONTROL AND HYDRAULIC RESEARCH'S MOST RECENT LIST OF APPROVED BACKFLOW PREVENTION ASSEMBLIES.
3. ALL MATERIALS, VALVES, AND FITTINGS THAT ARE TO COME IN CONTACT WITH POTABLE WATER SHALL BE ANSI/NSF 61 CERTIFIED.
4. CAST IRON COVER SHALL BE MARKED "WATER".
5. TRADE NAMES ARE SPECIFIED HEREIN AS A STANDARD OF ACCEPTABLE QUALITY. EQUIPMENT OF EQUAL QUALITY MAY BE USED AFTER APPROVAL BY THE CITY ENGINEER.
6. WATER VALVE SHALL BE APPROVED GATE VALVE AS PER W-3
7. GATE VALVE SHALL BE FLANGED TO TEE IN MAIN.
8. DIMENSIONS OF CONCRETE PAD TO BE DETERMINED BY THE CITY ENGINEER FOR EACH JOB.
9. SINGLE STRAND 14 GAUGE COPPER WIRE TO BE LAID ALONG TOP OF NONMETALLIC PIPE AND HELD IN PLACE AT 5 FT. INTERVALS BY DUCT OR PLUMBER TAPE, CONNECT TO ALL VALVES AND FITTINGS.
10. P.V.C. WATER MAIN SHALL CONFORM TO AWWA C900 SPECIFICATIONS.
11. DUCTILE IRON PIPE SHALL CONFORM TO AWWA C110 SPECIFICATIONS.
12. DOUBLE CHECK DETECTOR BACKFLOW PREVENTOR SHALL BE INSTALLED BY A LICENSED PLUMBING CONTRACTOR.
13. ALL BURIED METAL SHALL BE WRAPPED WITH 8 MIL. POLYETHYLENE ENCASMENT SO THAT NO SOIL IS IN CONTACT WITH METAL.

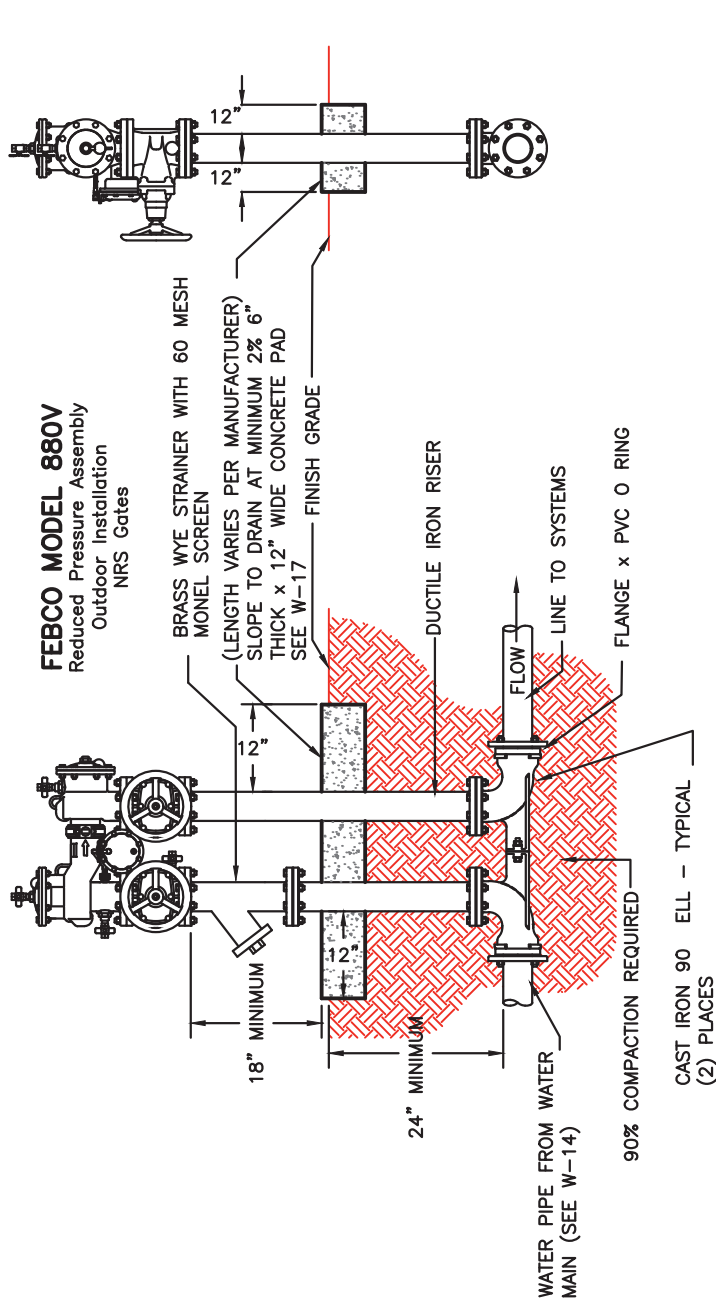


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W-14, W-17

## BACKFLOW INSTALLATION REDUCE PRESSURE (R.P.) VALVE

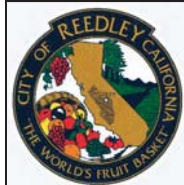
CITY OF REEDLEY

W-15



### NOTES:

1. REDUCED PRESSURE BACKFLOW ASSEMBLY SHALL BE LISTED ON THE UNIVERSITY OF SOUTHERN CALIFORNIA FOUNDATION FOR CROSS-CONNECTION CONTROL AND HYDRAULIC RESEARCH'S MOST RECENT LIST OF APPROVED BACKFLOW PREVENTION ASSEMBLIES.
2. ALL MATERIALS, VALVES, AND FITTINGS THAT ARE TO COME IN CONTACT WITH POTABLE WATER SHALL BE ANSI/NSF 61 CERTIFIED.
3. EQUIPMENT TO BE INSTALLED AT A MINIMUM OF 24" FROM ANY STRUCTURES OR HARDSCAPING.
4. ALL ABOVE GROUND ASSEMBLY SHALL RECEIVE (2) COATS OF RED PRIMER AND (1) COAT EXTERIOR ENAMEL - COLOR AS SELECTED BY LANDSCAPE ARCHITECT
5. WHEN UNIT IS NEXT TO A STRUCTURE (ie. WALL, BUILDING, ETC.) MOUNT TEST COCKS ON OPEN OR NON-STRUCTURE SIDE.
6. APPROVED BACKFLOW PRESSURE REDUCER ASSEMBLY SHALL BE INSTALLED ON EACH SERVICE LINE TO A CUSTOMER'S SYSTEM AT OR NEAR THE PROPERTY LINE.
7. TRADE NAMES ARE SPECIFIED HEREIN AS A STANDARD OF ACCEPTABLE QUALITY. EQUIPMENT OF EQUAL QUALITY MAY BE USED AFTER APPROVAL BY THE CITY ENGINEER.
8. DIMENSIONS OF CONCRETE PAD TO BE DETERMINED BY THE CITY ENGINEER FOR EACH JOB.
9. SINGLE STRAND 14 GAUGE COPPER WIRE TO BE LAID ALONG TOP OF NONMETALLIC PIPE AND HELD IN PLACE AT 5 FT. INTERVALS BY DUCT OR PLUMBER TAPE, CONNECTED TO ALL VALVES, FITTINGS & HYDRANT ASSEMBLIES.
10. P.V.C. WATER MAIN SHALL CONFORM TO AWWA C900 SPECIFICATIONS.
11. METER AND R.P. VALVE SHALL BE INSTALLED BY A LICENSED PLUMBING CONTRACTOR.
12. CONCRETE SHALL BE CLASS 'B' - 5 SACK MIX.



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NOT TO SCALE

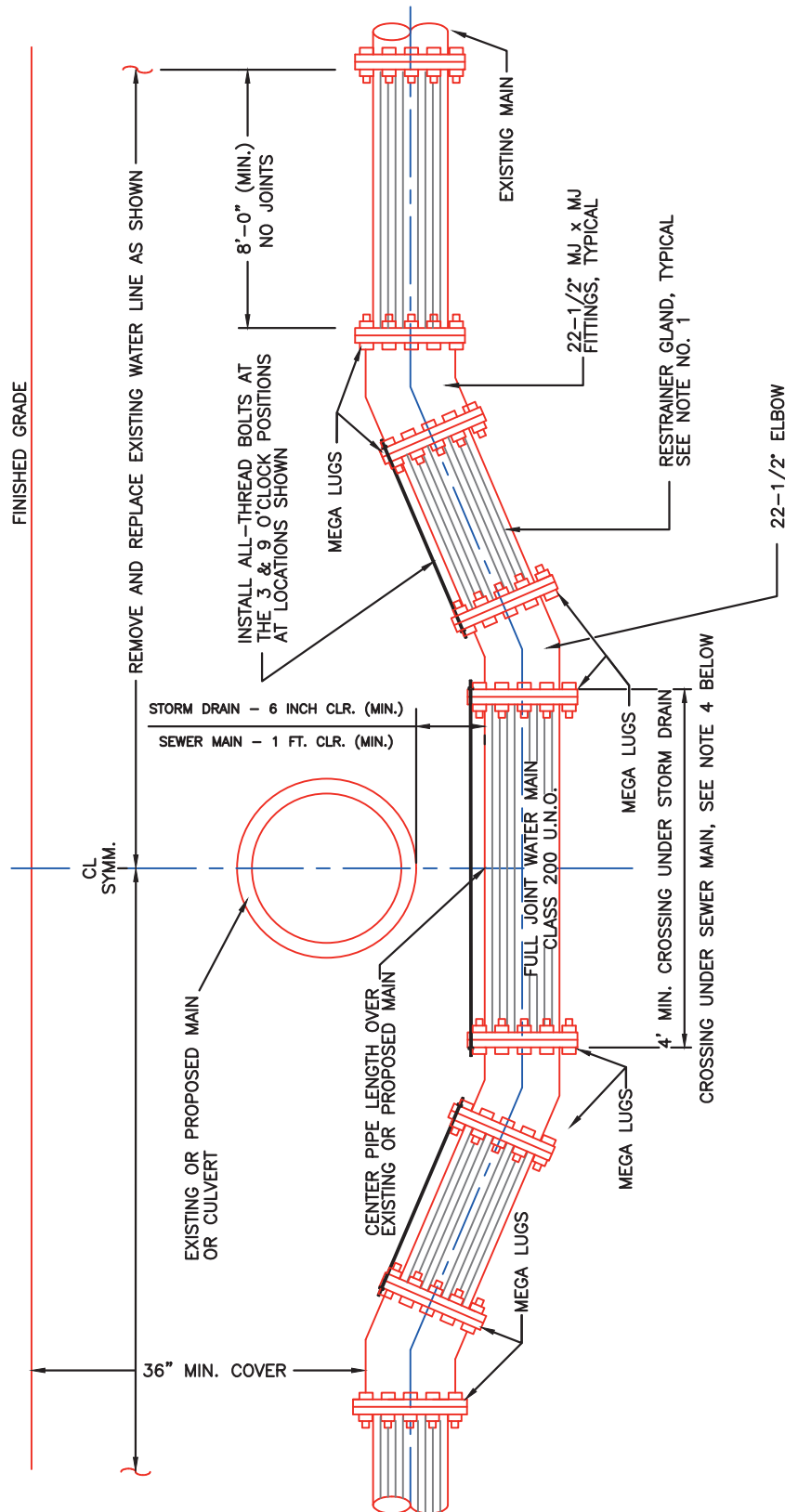
REVISED:  
MAR. 2020

REF. STD. DWG.:  
W-7, W-9, W-10

## CONSTRUCTION REQUIREMENTS FOR LOWERING WATER MAINS

*CITY OF REEDLEY*

**W-16**



### NOTES:

1. INSTALL RESTRAINER GLANDS AS SHOWN PER AWWA SPECIFICATION C600-87 ENCASE IN 8 MIL. FILM.
2. SEE WATER MAIN STANDARDS, W-7, W-9 & W-10 FOR DETAILS NOT SHOWN.
3. DISINFECT AND TEST ASSEMBLY PRIOR TO REPLACING TRENCH PAVING.
4. REFER TO W-9 & W-10 FOR SPECIAL CONSTRUCTION REQUIREMENTS FOR SEWER AND WATER SEPARATION.
5. LOWERING WATER MAINS SHALL REQUIRE APPROVAL BY THE CITY ENGINEER.
6. ALL FITTINGS SHALL BE DIP.



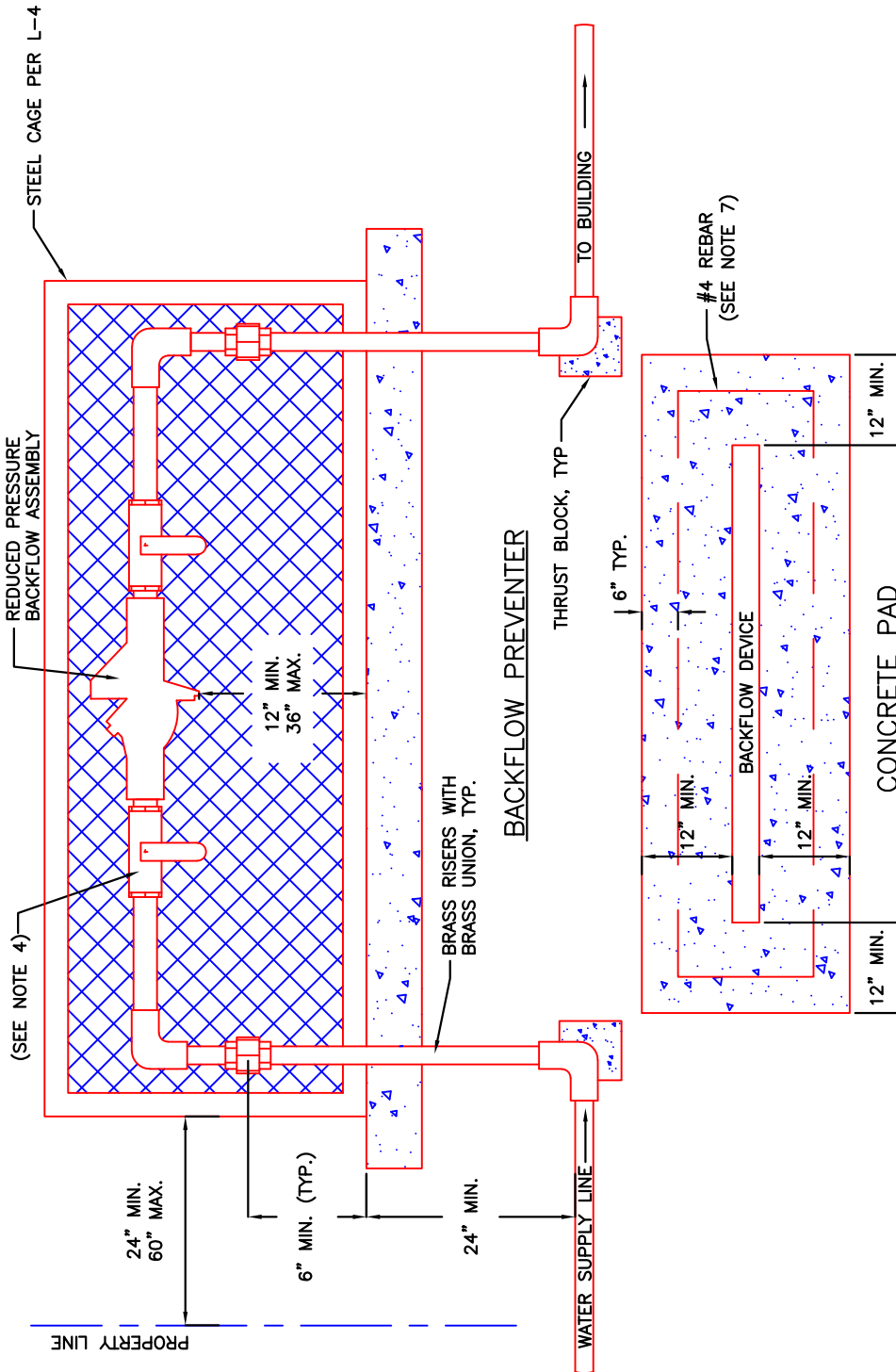


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REVISED:  
OCT. 2021  
REF. STD. DWG.:  
L-4

## REDUCED PRESSURE BACKFLOW PREVENTER 1" TO 2"

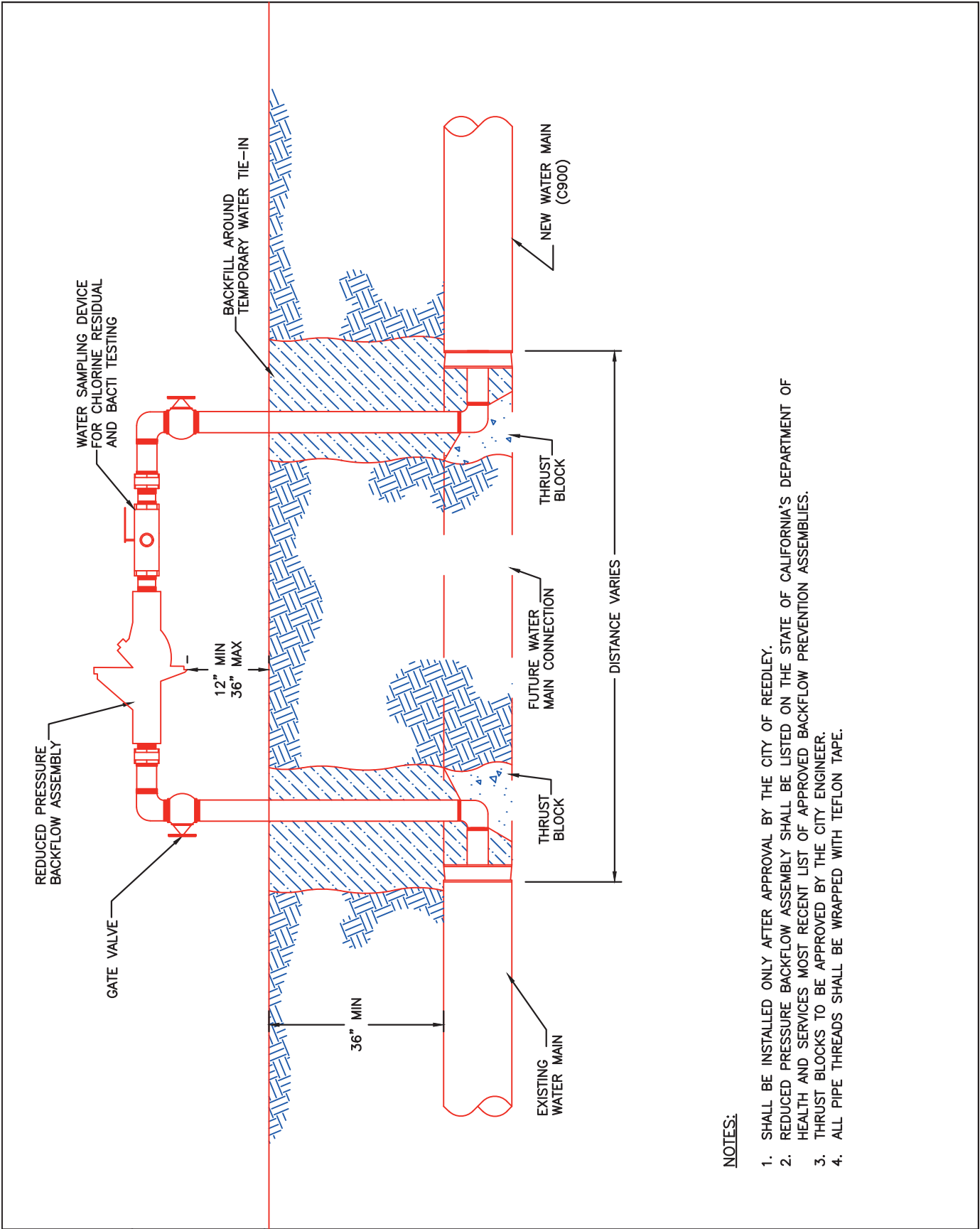
CITY OF REEDLEY

W-17



### NOTES:

1. REDUCED PRESSURE BACKFLOW ASSEMBLY SHALL BE LISTED ON THE UNIVERSITY OF SOUTHERN CALIFORNIA FOUNDATION FOR CROSS-CONNECTION CONTROL AND HYDRAULIC RESEARCH'S MOST RECENT LIST OF APPROVED BACKFLOW PREVENTION ASSEMBLIES.
2. ALL PIPES SHALL BE LEAD-FREE BRASS. ALL BURIED PIPES SHALL BE WRAPPED WITH A MINIMUM OF 8 MIL., POLYETHYLENE ENCASEMENT.
3. ALL MATERIALS, VALVES, AND FITTINGS THAT ARE TO COME IN CONTACT WITH POTABLE WATER SHALL BE ANSI/NSF 61 CERTIFIED.
4. BRONZE BODIED RESILIENT SEATED BALL VALVE. MINIMUM RATED OPERATING PRESSURE, 175 PSI.
5. BOLLARDS MAY BE REQUIRED ON REQUEST BY THE CITY AND SHALL BE PROVIDED BY THE CONTRACTOR.
6. CHRISTY FREEZE BLANKET OR EQUIVALENT SHALL BE PROVIDED BY THE CONTRACTOR AND SHALL BE FITTED TO THE APPROPRIATE VALVE SIZE.
7. A 6" THICK CONCRETE PAD IS REQUIRED FOR ALL WATER PROTECTION DEVICES. 4 #4 REBAR REINFORCEMENT REQUIRED. MINIMUM OF 1 FT. CLEARANCE ON ALL SIDES OF THE DEVICE AND SLOPE TO DRAIN AT 2%.



NOTES:

1. SHALL BE INSTALLED ONLY AFTER APPROVAL BY THE CITY OF REEDLEY.
2. REDUCED PRESSURE BACKFLOW ASSEMBLY SHALL BE LISTED ON THE STATE OF CALIFORNIA'S DEPARTMENT OF HEALTH AND SERVICES MOST RECENT LIST OF APPROVED BACKFLOW PREVENTION ASSEMBLIES.
3. THRUST BLOCKS TO BE APPROVED BY THE CITY ENGINEER.
4. ALL PIPE THREADS SHALL BE WRAPPED WITH TEFLON TAPE.



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REVISED:  
MAR. 2020

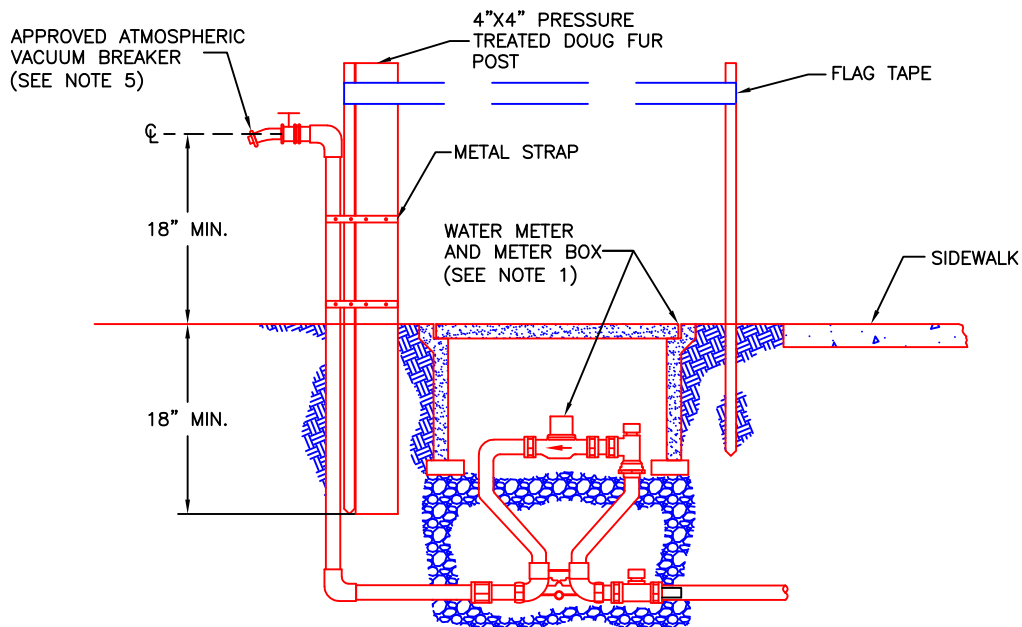
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N/A

## TEMPORARY WATER MAIN TIE-IN

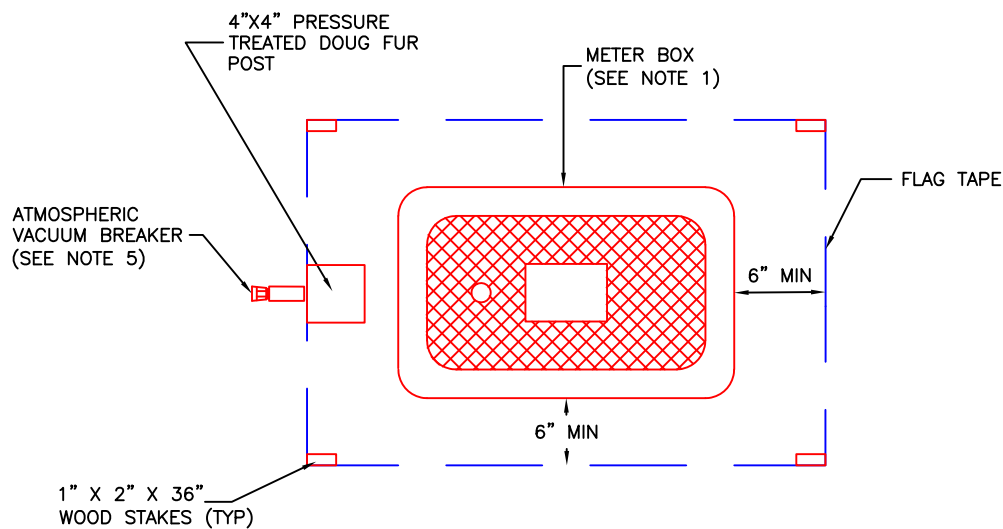
*CITY OF REEDLEY*

**W-18**





ELEVATION VIEW



PLAN VIEW

NOTES:

1. METER BOX AND METER SHALL BE INSTALLED AS PER CITY STANDARD W-4.
2. METER BOXES SHALL BE KEPT CLEAN AND FREE OF DEBRIS AT ALL TIMES.
3. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGES TO THE METER BOX DURING CONSTRUCTION.
4. FLAG TAPE SHALL HAVE A DISTANCE OF 6" MINIMUM FROM THE METER BOX AND SHALL BE WRAPPED AROUND EACH OF THE 4 WOODEN STAKES IN ORDER TO DELINEATE THE LIMITS OF THE METER BOX PROTECTION.
5. ATMOSPHERIC VACUUM BREAKER SHALL BE APPROVED BY THE CITY OF REEDLEY BEFORE USE.



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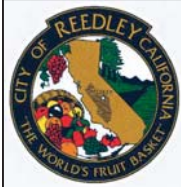
REVISED:  
OCT. 2019

REF. STD. DWG.:  
W-4

**METER BOX CONNECTION  
AND TEMPORARY  
CONSTRUCTION WATER**

*CITY OF REEDLEY*

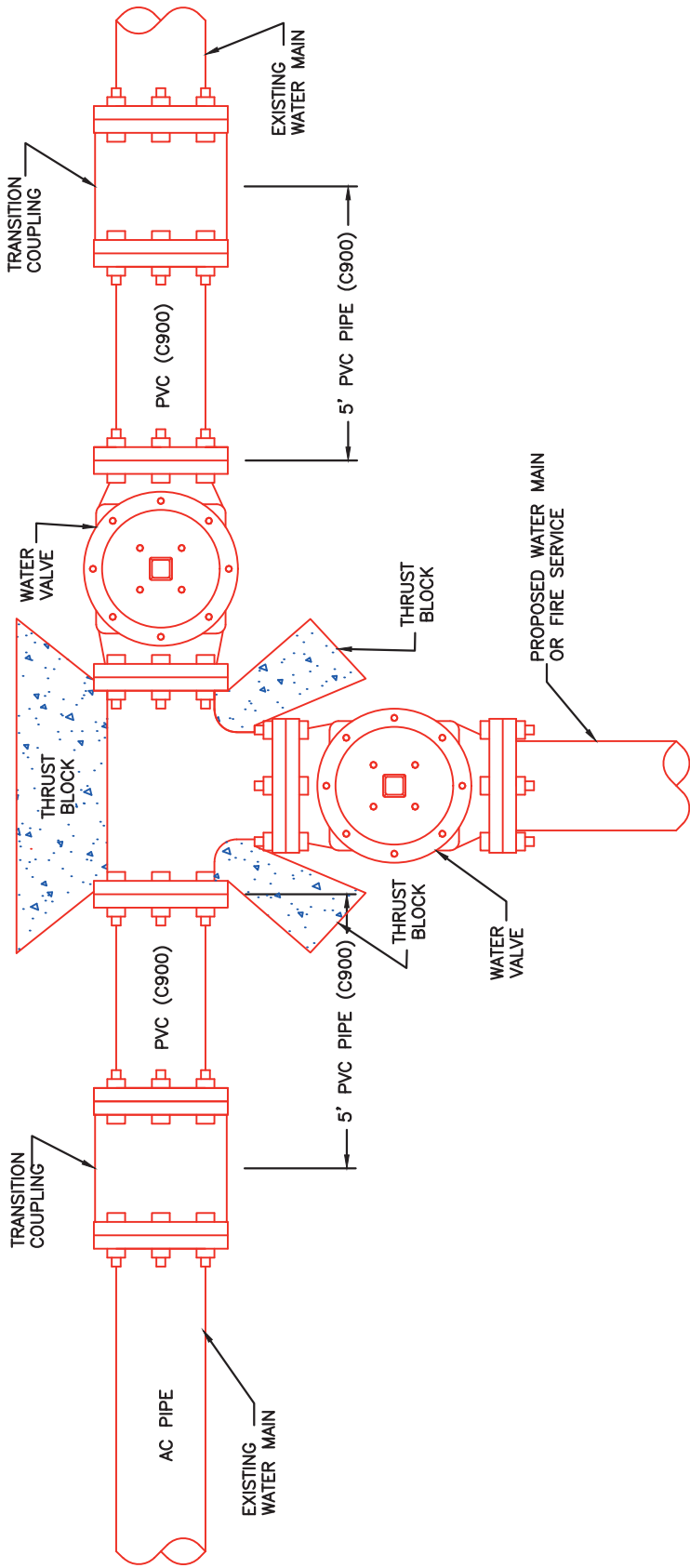
**W-19**



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REVISED:  
MAR. 2020  
REF. STD. DWG.:  
W-7

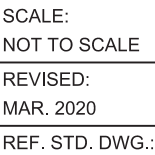
# CUT IN DETAIL FOR WATER MAIN (AC PIPE)

CITY OF REEDLEY  
W-20



NOTES:

1. ALL PIPES, VALVES, AND FITTINGS THAT ARE TO COME INTO CONTACT WITH POTABLE WATER SHALL BE ANSI/NSF-61 CERTIFIED.
2. MECHANICAL JOINTS TO BE USED ON ALL FITTINGS.
3. SUMP SHALL BE DUG UNDER CUT IN LOCATION SO THAT WHEN WATER IS BEING PUMPED FROM THE EXISTING LINE NO WATER CAN RE-ENTER THE LINE.
4. CHLORINATE IN ACCORDANCE WITH AWWA STANDARDS.
5. SPRAY EXISTING PIPE; ALL FITTINGS AND VALVES WITH A SOLUTION OF SUPER CHLORINATED WATER PRIOR TO INSTALLATION.
6. THRUST BLOCKS SHALL BE INSTALLED AS PER W-7.
7. ALL METAL FITTINGS SHALL BE WRAPPED WITH 8MIL POLYETHYLENE ENCASEMENT (MINIMUM).

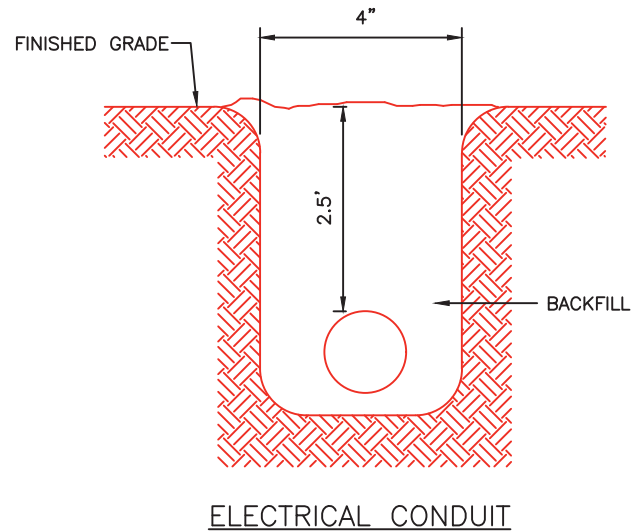
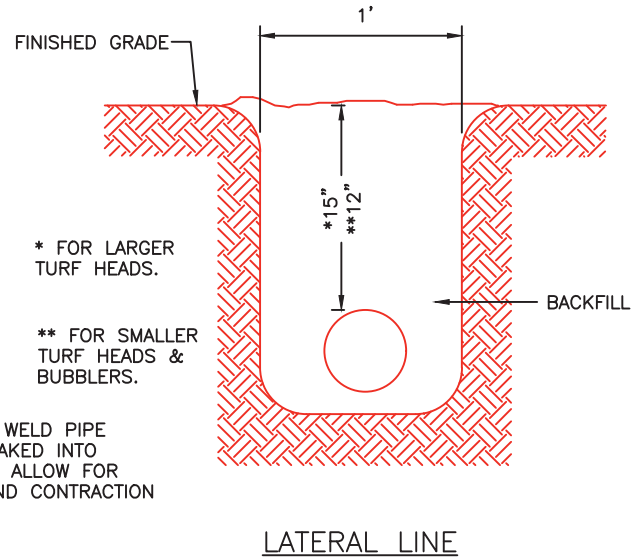
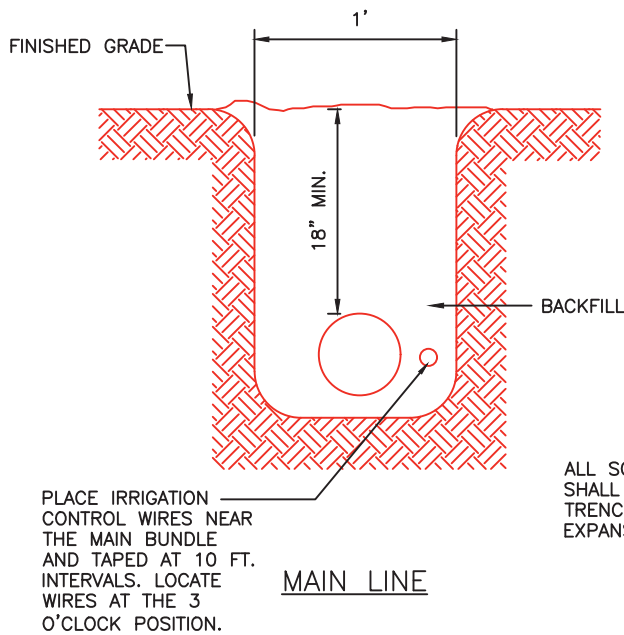


## LANDSCAPE AND IRRIGATION LEGENDS

CITY OF REEDLEY

# L-1

[illegible][illegible][illegible]



#### NOTES:

1. ALL ELECTRICAL WIRING AND WATER LINES SHALL BE INSTALLED 2.5 FT. DEEP IN A SCHEDULE 40 PVC CONDUIT WHEN CROSSING ROADWAYS OR UNDER ANY HARD SURFACE.
2. IF MORE THAN ONE LINE IS INSTALLED PER TRENCH, PROVIDE 0.5 FT. HORIZONTAL AND VERTICAL SEPARATION.
3. ALL PVC SOLVENT (GLUE) SHALL BE #711 (PRIMER IS REQUIRED ON MAIN LINE ONLY).
4. LANDSCAPE AND IRRIGATION IMPROVEMENTS WITHIN THE DEDICATED STREET RIGHT-OF-WAY MAY REQUIRE AN ENCROACHMENT PERMIT. CHECK WITH PUBLIC WORKS DEPARTMENT FOR REQUIREMENTS.
5. WHERE OPEN STREET CUTS ARE REQUIRED TO INSTALL VARIOUS IRRIGATION AND/OR WIRES, ALL BACKFILL, COMPACTING AND FINAL SURFACE PATCH WITHIN THE CITY RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH CITY STANDARD ST-46 OR AS DIRECTED BY THE CITY ENGINEER.
6. WHEN THERE IS A CHANGE IN FITTED DIRECTION, ALL IRRIGATION MAIN LINES LARGER THAN 2" IN DIAMETER (PRESSURE LINES) SHALL BE SECURED WITH THRUST BLOCKS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION, CITY STD. W-7 AND AS DIRECTED BY THE CITY ENGINEER.
7. ALL IRRIGATION LATERAL LINES SHALL BE SCHEDULE 40 PVC.
8. ALL IRRIGATION MAIN LINES 2" IN DIAMETER AND LESS SHALL BE SCHEDULE 40 PVC. IRRIGATION MAIN LINES GREATER THAN 2" IN DIAMETER SHALL BE PVC SCHEDULE 40 OR APPROVED EQUAL BY THE CITY ENGINEER.
9. ANY AND ALL CHANGES SHALL BE APPROVED BY THE CITY ENGINEER PRIOR TO CONSTRUCTION.
10. ALL IRRIGATION INSTALLATION SHALL BE IN ACCORDANCE WITH CITY STANDARDS, THE LATEST APPROVED EDITION OF THE UNIFORM PLUMBING CODE, MANUFACTURE'S RECOMMENDATIONS AND AS DIRECTED BY THE CITY ENGINEER.
11. ALL MATERIAL USED SHALL BE NEW AND FREE FROM IMPERFECTIONS.
12. SEE APPROVED LANDSCAPE AND IRRIGATION PLANS AND LEGENDS FOR SPECIFIC MODEL NUMBER, SIZE, QUANTITY, MANUFACTURER, AND PERFORMANCE REQUIREMENTS.



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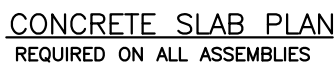
REVISED:  
MAR. 2020

REF. STD. DWG.:  
ST-46 & W-7

## CONDUIT AND IRRIGATION PIPING, TRENCHING & BACKFILL

*CITY OF REEDLEY*

**L-2**



1. EXCEPT AS NOTED, ALL PIPING AND FITTINGS SHALL BE BRASS UNLESS APPROVED BY THE CITY ENGINEER.
2. USE TEFLON TAPE ON ALL THREADED JOINTS OR APPROVED EQUAL BY THE CITY ENGINEER.
3. ALL MATERIALS SHALL BE NEW AND FREE FROM IMPERFECTIONS.
4. FOR LESS THAN A 2" LANDSCAPE SERVICE, IF WATER PRESSURE IS NOT AVAILABLE A FEBCO 766 PRESSURE VACUUM BREAKER MAY BE UTILIZED WITH APPROVAL BY THE CITY ENGINEER.
5. SEE APPROVED LANDSCAPE AND IRRIGATION PLANS AND LEGENDS FOR SPECIFIC MODEL NUMBERS, SIZES, QUANTITY, MANUFACTURER'S, AND PERFORMANCE REQUIREMENTS.
6. ALL TRANSITIONS FROM BRASS PIPE TO PVC SHALL BE CONSTRUCTED WITH SCHEDULE 80 FEMALE ADAPTER OR APPROVED EQUAL BY THE CITY ENGINEER.
7. A 6" THICK CONCRETE (4000 PSI) SLAB IS REQUIRED FOR ALL WATER PROTECTION DEVICES. 4 #4 REBAR REINFORCEMENT REQUIRED. MINIMUM CLEARANCE SHALL BE 1 FT. ON ALL SIDES OF THE DEVICE AND AS DIRECTED BY THE CITY ENGINEER.
8. ALL IRRIGATION INSTALLATION SHALL BE IN ACCORDANCE WITH CITY STANDARDS, THE LATEST ACCEPTED EDITION ON THE UNIFORM PLUMBING CODE, MANUFACTURE'S RECOMMENDATION, AND AS DIRECTED BY THE CITY ENGINEER.
9. ANY AND ALL CHANGES SHALL BE APPROVED BY THE CITY ENGINEER BEFORE CONSTRUCTION.
10. BEFORE ACCEPTANCE OF WORK BY THE CITY, THE BACKFLOW PREVENTER SHALL BE TESTED AND CERTIFIED BY A LICENSED BACKFLOW PLUMBER. CERTIFICATION SHALL BE DELIVERED TO THE CITY ENGINEER.
11. INSTALL BACKFLOW ENCLOSURE PER CITY STANDARD DRAWING L-4.



# POTABLE WATER PROTECTION

CITY OF REEDLEY

L-3



SCALE:  
NOT TO SCALE

REVISED:  
JUL. 2020

REF. STD. DWG.:  
L-3

## BACKFLOW PREVENTER ENCLOSURE

CITY OF REEDLEY

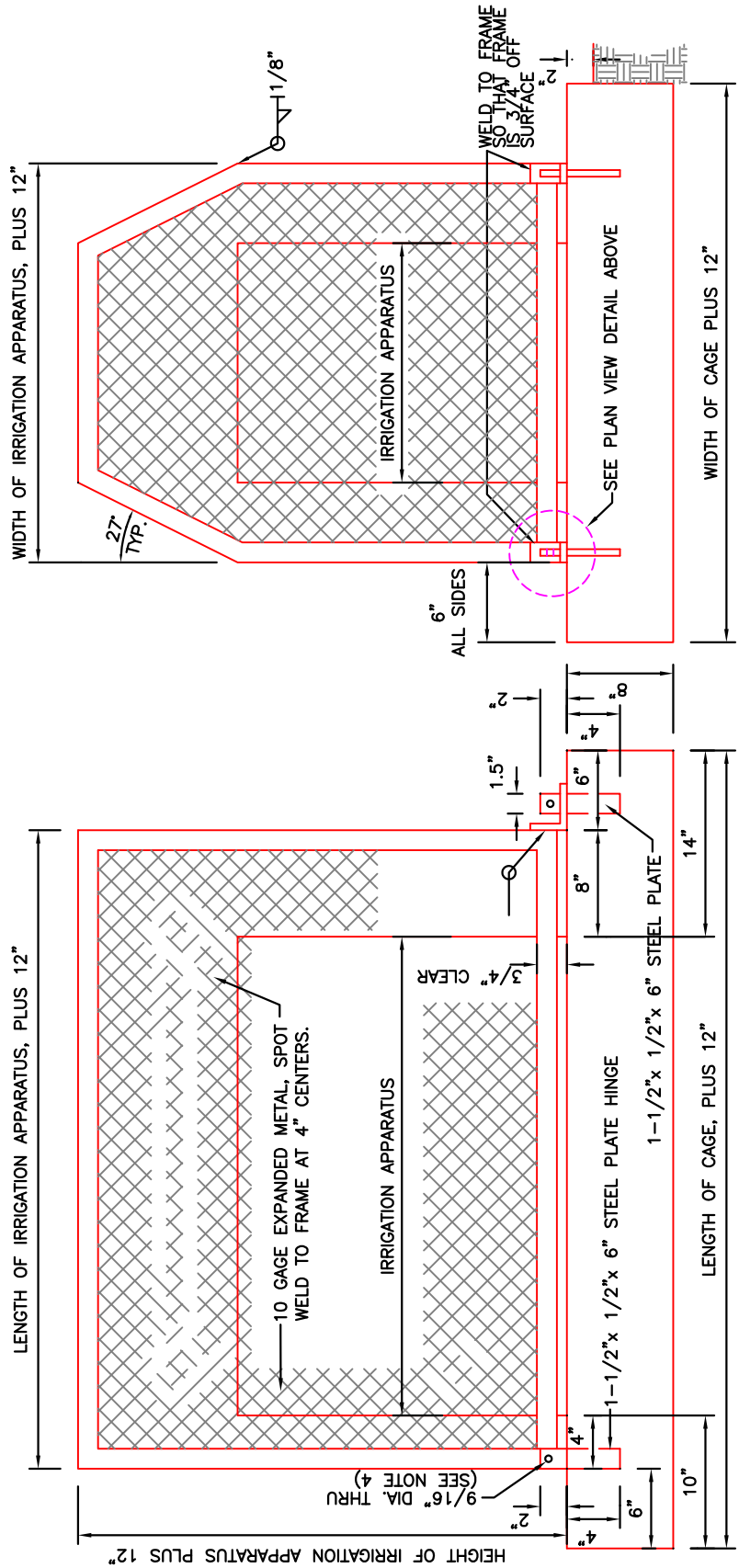
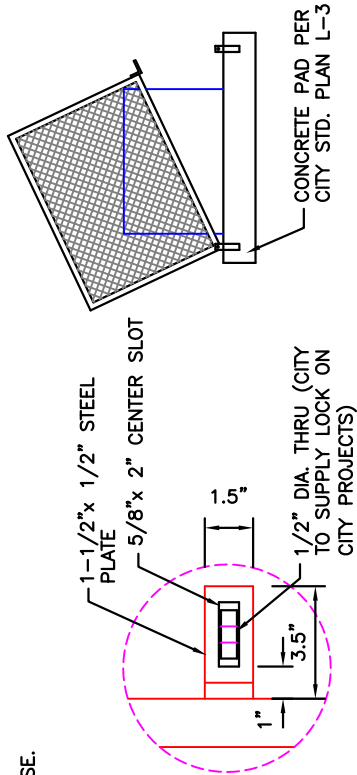
L-4

### NOTES:

1. PAINT ALL METAL SURFACES WITH 2 COATS DARK GREEN ENAMEL OVER A PRIMER BASE.
2. FRAME CONSTRUCTED OF 1 1/2" BY 1 1/2" ANGLE IRON.
3. CONCRETE SHALL BE CLASS "B" (5 SACK).
4. 1/2"x 2" HEX CAP SCREW, GRADE 2 WITH 2 NUTS EACH.
5. PREFABRICATED SINGLE-LIFT OR DOUBLE-LIFT BACKFLOW ENCLOSURES AVAILABLE FROM NATIONAL WATERWORKS, 2651 E. BYRD AVE., #101, FRESNO, CA 93706 PHONE 559-237-7488, FAX 559-237-6423, SEE TABLES BELOW FOR SIZING.
6. A BACKFLOW PREVENTER FREEZE PROTECTION COVER SHALL BE INSTALLED OVER THE BACKFLOW PREVENTER.

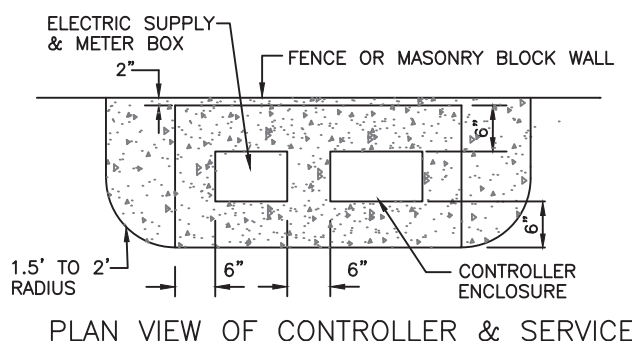
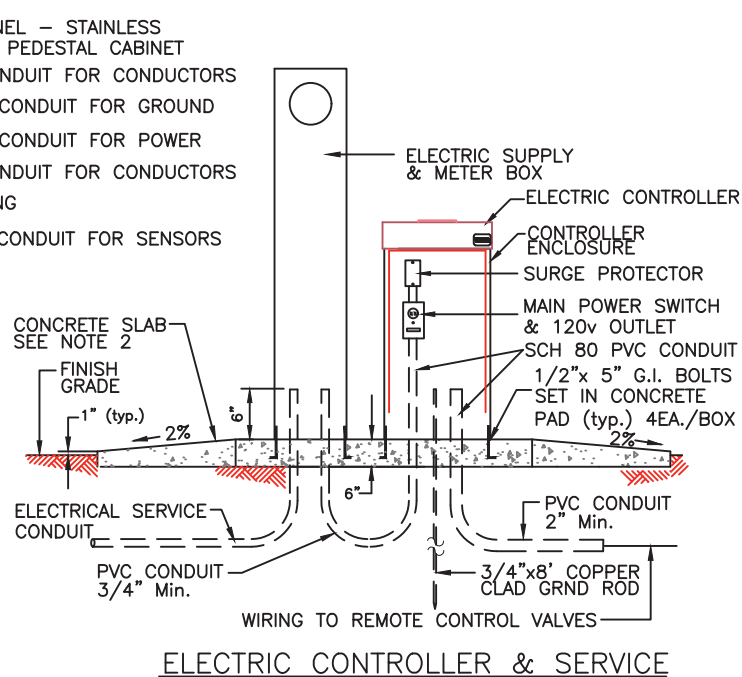
SIZING FOR SINGLE-LIFT ENCLOSURES					SIZING FOR DOUBLE-LIFT ENCLOSURES				
VALVE SIZE	PART #	WIDTH	LENGTH	HEIGHT	VALVE SIZE	PART #	WIDTH	LENGTH	HEIGHT
1"	BFE-100	12"	30"	24"	2-1/2"	BFE-250	24"	60"	36"
1-1/2"	BFE-200	18"	42"	30"	3"	BFE-400	30"	72"	42"
2"	BFE-200	18"	42"	30"	4"	BFE-400	30"	72"	42"
					6"	BFE-600	30"	84"	42"

### PLAN VIEW DETAIL







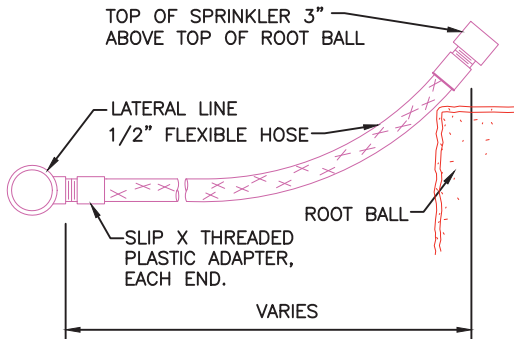


7. TORO SENTINEL STAINLESS STEEL WALL MOUNTED CABINET  
MAY BE INSTALLED WITH CITY ENGINEER APPROVAL.





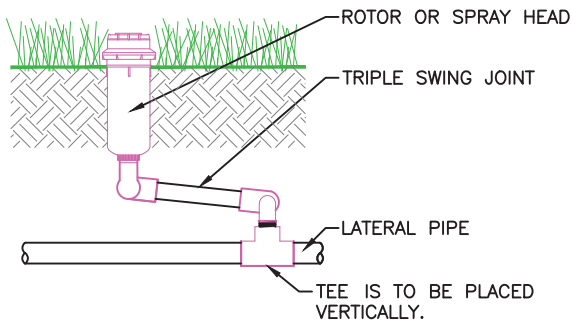
**NOTE:**  
NO NATIVE SOIL ON TOP OF ROOT BALL



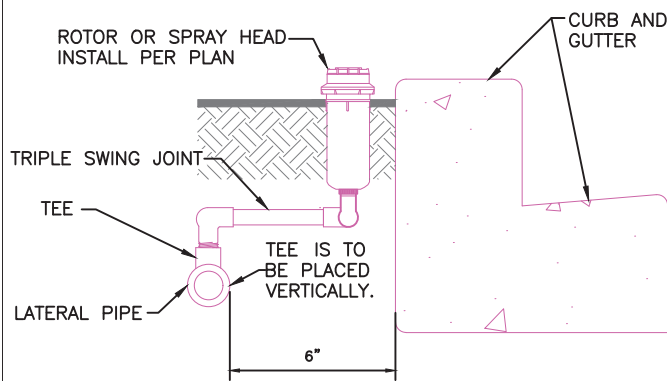
### SHRUB BUBBLER

**NOTES:**

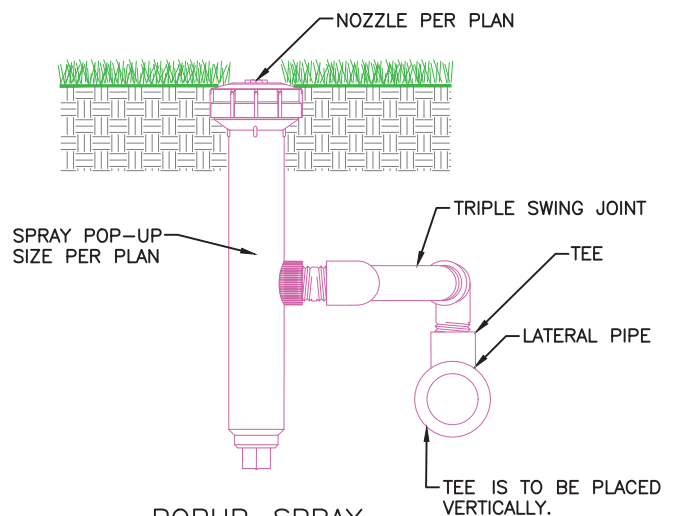
1. INSTALL SPRINKLER HEAD FLUSH OR SLIGHTLY ABOVE FINISH GRADE IN TURF AREAS.
2. INSTALL SPRINKLER HEAD 2" ABOVE FINISH GRADE IN SHRUB AND GROUND COVER AREAS. DO NOT COVER WITH MULCH.



### POP UP ROTOR IN TURF



### POPUP-SPRAY NEXT TO CURB



### POPUP-SPRAY

**NOTES:**

1. USE TEFLON TAPE TAPE ON ALL THREADED JOINTS OR APPROVED EQUAL BY CITY ENGINEER.
2. ALL RISERS AND NIPPLES SHALL BE SCHEDULE 80 PVC.
3. ALL FITTINGS SHALL BE SCHEDULE 40 PVC.
4. ALL LATERALS SHALL BE SCHEDULE 40 PVC OR AS NOTED ON THE LANDSCAPE/IRRIGATION PLANS.
5. WHERE IRRIGATION HEADS ARE INSTALLED WITHIN EMBANKMENTS, A DRAIN VALVE OR CHECK VALVE IS REQUIRED TO PREVENT EROSION. CHECK VALVES AND DRAIN VALVES SHALL BE INSTALLED AT LOCATIONS AS PRESCRIBED BY THE SPECIFIC FIELD CONDITIONS AND SHALL BE APPROVED BY THE CITY ENGINEER PRIOR TO USE AND PLACEMENT.
6. ALL POP-UP HEADS SHALL BE 1-INCH FROM CONCRETE AND ASPHALT AREAS. ALL LARGE RADIUS IRRIGATION HEADS (PART CIRCLE) SHALL BE 4-INCHES FROM CONCRETE AND ASPHALT AREAS. HEIGHT OF POP-UP HEADS SHALL BE AS FOLLOWS:  
4-INCHES FOR LAWN AREAS  
1 FOOT FOR SHRUBS  
1 FOOT FOR GROUND COVERS
7. WHERE PART CIRCLE IRRIGATION HEADS ADJACENT TO A BUILDING WALL, LOCATE IRRIGATION HEAD 1 FT. FROM FACE OF BUILDING WALL TO BACK OF IRRIGATION HEAD.
8. SWING JOINTS SHALL BE ALLOWED ON ALL IRRIGATION HEADS EVEN WHERE NOT REQUIRED.
9. ALL IRRIGATION INSTALLATION SHALL BE IN ACCORDANCE WITH CITY STANDARDS, THE LATEST EDITION OF THE UNIFORM PLUMBING CODE, MANUFACTURER'S RECOMMENDATION AND AS DIRECTED BY THE CITY ENGINEER.
10. ALL MATERIALS SHALL BE NEW AND FREE FROM DEFECTS.
11. SEE APPROVED LANDSCAPE/IRRIGATION PLANS AND LEGENDS FOR SPECIFIC MODEL NUMBERS, SIZE, QUANTITIES, MANUFACTURER'S, AND PERFORMANCE REQUIREMENTS.
12. ANY AND ALL CHANGES FROM THIS STANDARD SHALL BE APPROVED BY THE CITY ENGINEER PRIOR TO ANY TYPE OF CONSTRUCTION.

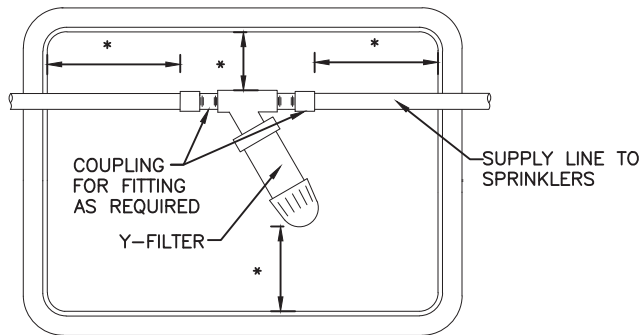


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REVISED:  
MAR. 2020  
REF. STD. DWG.:

## VARIOUS IRRIGATION HEADS

*CITY OF REEDLEY*

**L-7**



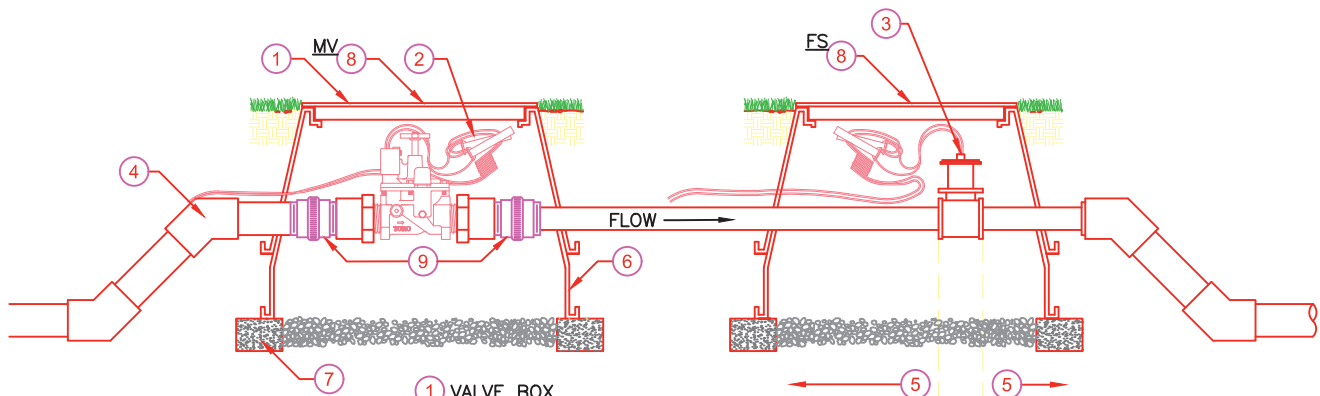
\* = 2" Min. CLEARANCE

PLAN VIEW

FILTER

GENERAL NOTES:

1. PLACE 3" MIN. DEPTH OF 3/4" WASHED GRAVEL.
2. PLACE FOUR (4) BRICKS AT EACH CORNER, TYP.
3. VALVE BOXES WITH COVER AND ENGRAVED.



- 1 VALVE BOX
- 2 CONDUCTORS
- 3 FLOW SENSOR
- 4 PVC ELL - 45 DEGREE
- 5 MIN. 10 X PIPE DIA. UPSTREAM  
MIN. 5 X PIPE DIA. DOWNSTREAM
- 6 EXTENTIONS AS NECESSARY
- 7 BRICK SUPPORT
- 8 VALVE BOX IDENTIFICATION TAG (ENGRAVED AS NOTED)
- 9 PVC UNION

MASTER VALVE - FLOW SENSOR



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REVISED:  
MAR. 2020

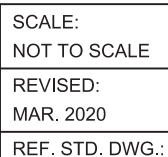
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## FLOW SENSOR AND FILTER

*CITY OF REEDLEY*

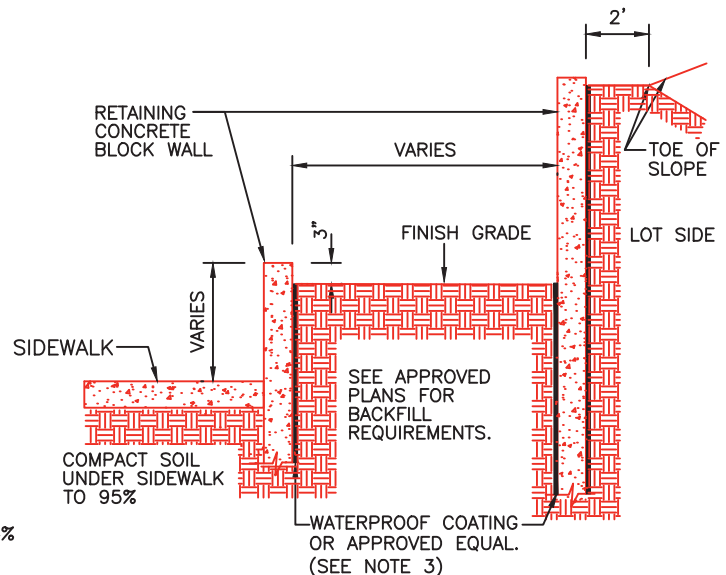
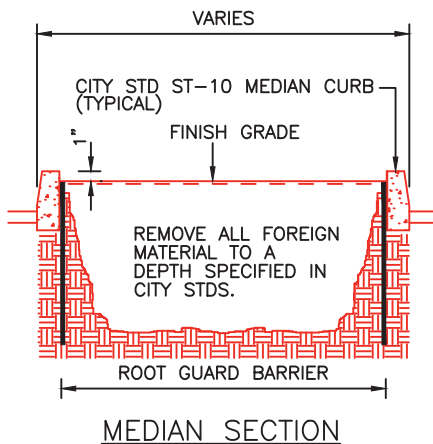
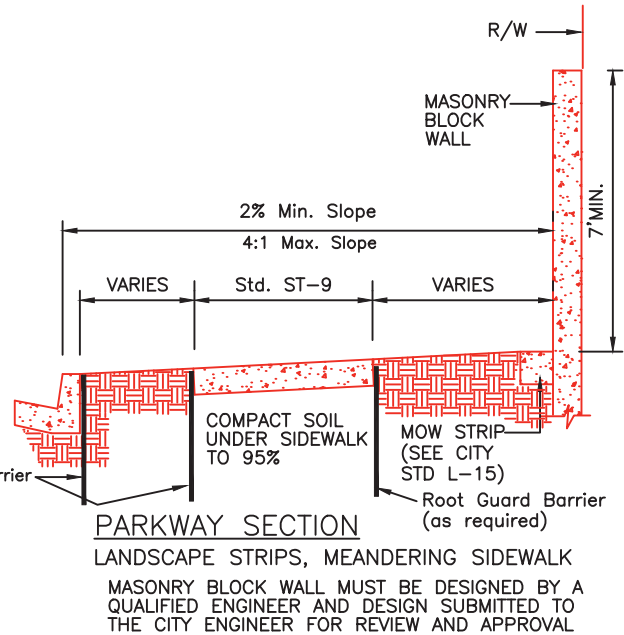
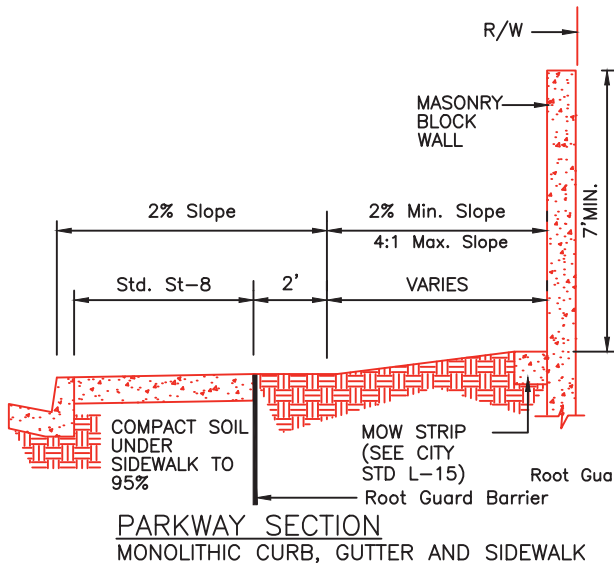
**L-8**

1. USE TEFELON TAPE ON ALL threaded JOINTS OR AS APPROVED BY CITY ENGINEER.
2. ALL RISERS AND NIPPLES SHALL BE SCHEDULE 80 PVC.
3. ALL FITTINGS SHALL BE SCHEDULE 40 PVC.
4. ALL LATERALS SHALL BE SCHEDULE 40 PVC OR AS NOTED ON THE LANDSCAPE/IRRIGATION PLANS.
5. ALL IRRIGATION INSTALLATION SHALL BE IN ACCORDANCE WITH CITY STANDARDS, THE LATEST EDITION OF THE UNIFORM PLUMBING CODE, MANUFACTURER'S RECOMMENDATION AND AS DIRECTED BY THE CITY ENGINEER.
6. ALL MATERIALS SHALL BE NEW AND FREE FROM DEFECTS.
7. SEE APPROVED LANDSCAPE/IRRIGATION PLANS AND LEGENDS FOR SPECIFIC MODEL NUMBERS, SIZE, QUANTITIES, MANUFACTURER'S, AND PERFORMANCE REQUIREMENTS.
8. ANY AND ALL CHANGES FROM THIS STANDARD SHALL BE APPROVED BY THE CITY ENGINEER PRIOR TO ANY TYPE OF CONSTRUCTION.
9. PLACE FOUR (4) BRICKS AT EACH CORNER FOR RECTANGULAR SHAPED BOXES AND THREE (3) BRICKS FOR CIRCULAR BOXES, TYP..



## CITY OF REEDLEY

L-9



**NOTES:**

1. PROVIDE POSITIVE DRAINAGE (2% MINIMUM TO 4% MAXIMUM) IN ALL LANDFILL AREAS.
2. 9-INCH CONCRETE MOW STRIP IS REQUIRED FOR ALL LAWN AREAS ADJACENT TO PROPOSED OR EXISTING WALL PER STANDARD PLAN L-15.
3. WHERE LOT GRADES ARE HIGHER THAN STREET GRADES, SIDE OF WALL WATER PROOFING IS REQUIRED.
4. IF CURBING AND OR CURB/GUTTER FOR LANDSCAPE CENTER MEDIANS ARE NOT EXISTING, SEE APPROVED CIVIL ENGINEERING DRAWINGS.
5. ALL IRRIGATION INSTALLATION SHALL BE IN ACCORDANCE WITH CITY STANDARDS, THE LATEST EDITION OF THE UNIFORM PLUMBING CODE, MANUFACTURER'S RECOMMENDATION AND AS DIRECTED BY THE CITY ENGINEER.
6. ANY AND ALL CHANGES FROM THIS STANDARD SHALL BE APPROVED BY THE CITY ENGINEER PRIOR TO ANY TYPE OF CONSTRUCTION.

**WATER PROOFING**

**(PLANTERS AND RETAINING WALLS)**

ALL RETAINING WALLS MUST BE ENGINEERED AND CALCULATIONS SUBMITTED TO CITY ENGINEER FOR REVIEW AND APPROVAL.



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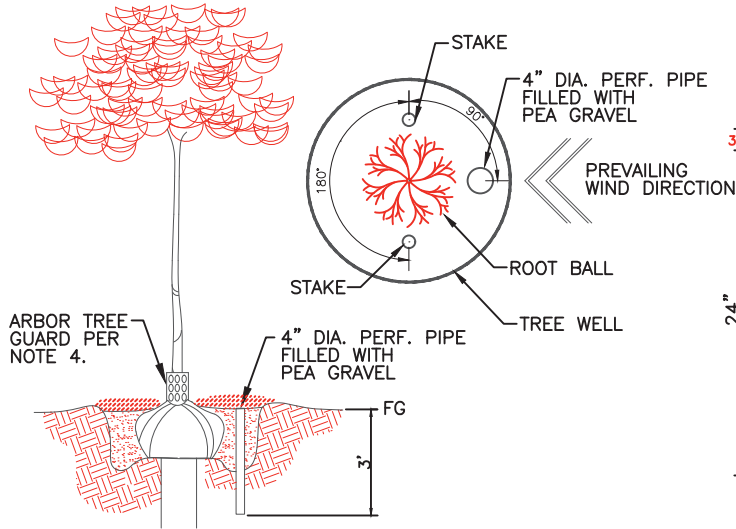
REVISED:  
MAR. 2020

REF. STD. DWG.:  
ST-8, 9, 10, & L-15

**PARKWAY AND MEDIAN  
SECTION DETAILS**

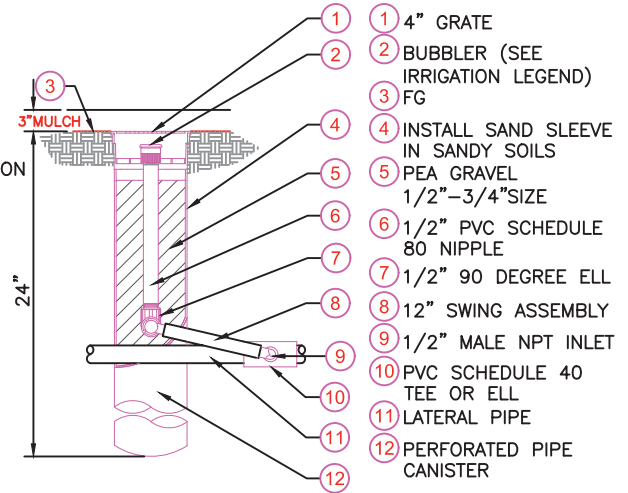
**CITY OF REEDLEY**

**L-10**

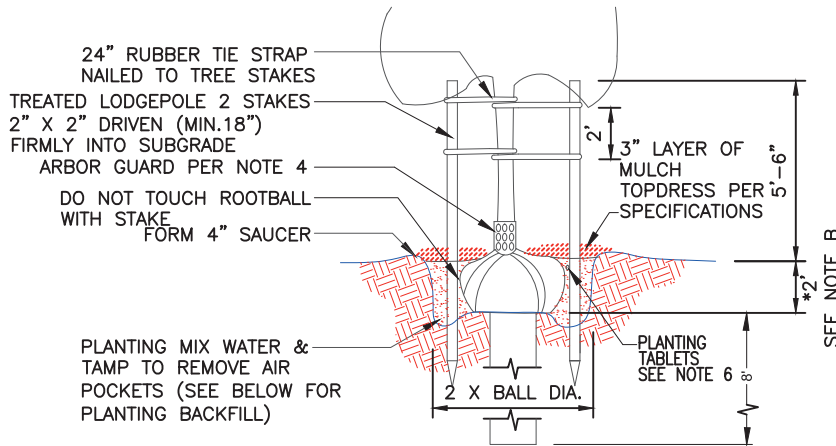


\*TREES LOCATED IN LANDSCAPED AREAS REQUIRE ONLY 1 BUBBLER. TREES LOCATED IN TURF AREAS DO NOT REQUIRE BUBBLERS.

### TREE IRRIGATION



### BUBBLER IN ROOT WATERING SYSTEM

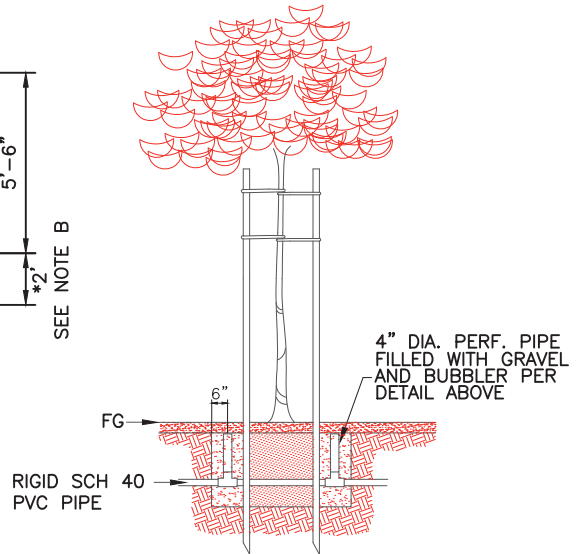


- TOP SUPPORT OF TREES SHOULD BE 6" ABOVE POINT WHERE TREE HEAD IS SELF SUPPORTING AND CLEAR OF BRANCHES.
- PLANTING DEPTH TO BE DICTATED BY POINT OF FIRST ROOT FLAIR (EXCLUDING ADVENTITIOUS ROOTS).
- ROOTBALL TO BE 1" ABOVE FINISHED GRADE BY END OF MAINTENANCE PERIOD.
- PLANTING BACKFILL MIX SHALL CONSIST OF 60 % NATIVE SOIL & 40 % NITROLIZED WOOD SHAVINGS.
- THE CONTRACTOR SHALL DRILL A 12" DIA. x 8' DEEP HOLE AT THE BOTTOM OF EACH PLANTING PIT, PENETRATING THROUGH THE HARDPAN TO LOOSE, FRIABLE SOIL.

### TREE PLANTING AND STAKING

#### NOTES:

- APPLY SOIL AMENDMENT AS PER SOIL TEST.
- ALL TREES SHALL BE STAKED WITH NEW 2-INCH DIAMETER (PRESSURE TREATED) LODGE POLE PINE. REMOVE ORIGINAL TREE STAKES FROM ALL PLANT MATERIAL DELIVERED TO THE PROJECT SITE AND INSTALL NEW TREE STAKES.
- CONSTRUCT MOUND AS REQUIRED TO SECURE PLANTS STABILITY DURING CONSTRUCTION INSTALLATION.
- 6" MIN. ARBOR TREE GUARD OR APPROVED EQUAL IS REQUIRED AROUND ALL TREE TRUNKS PLANTED IN LAWN AREAS.



### TREE BUBBLER IN TREE WELL

- 10' LONG X 24" DEEP ROOT BARRIER IS REQUIRED AGAINST ALL HARD SURFACES WHEN THE TREE TRUNK IS 5 FT. OR LESS FROM ANY HARD SURFACE. CENTER ROOT BARRIER LENGTH ONTO TREE. TOP OF ROOT BARRIER SHALL BE 1/2" BELOW FINISHED GRADE.
- PLANTING TABLET SHALL BE PLACED 2" BELOW FINISHED GRADE NEAR ROOT FOUNDATION AS FOLLOWS: 1 TABLET FOR 1 GALLON, 3 TABLETS FOR 5 GALLON, 6 TABLETS FOR 15 GALLON AND 9 TABLETS FOR 24" BOX.

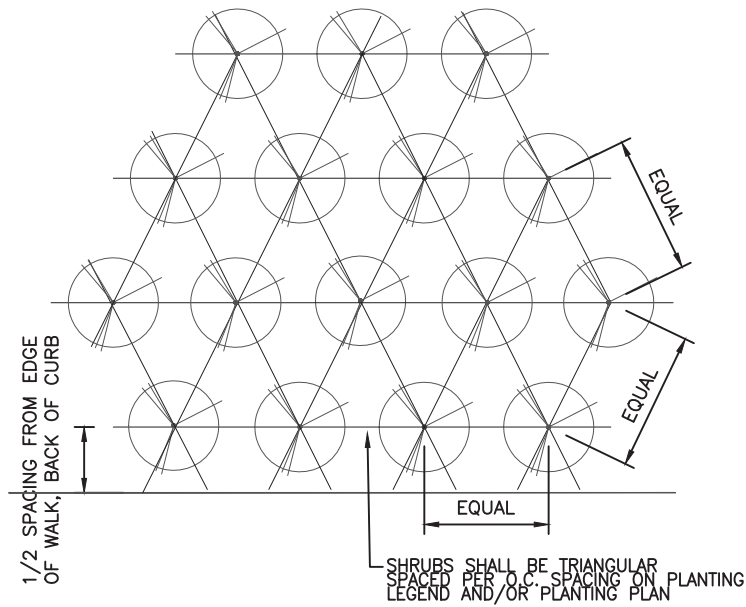


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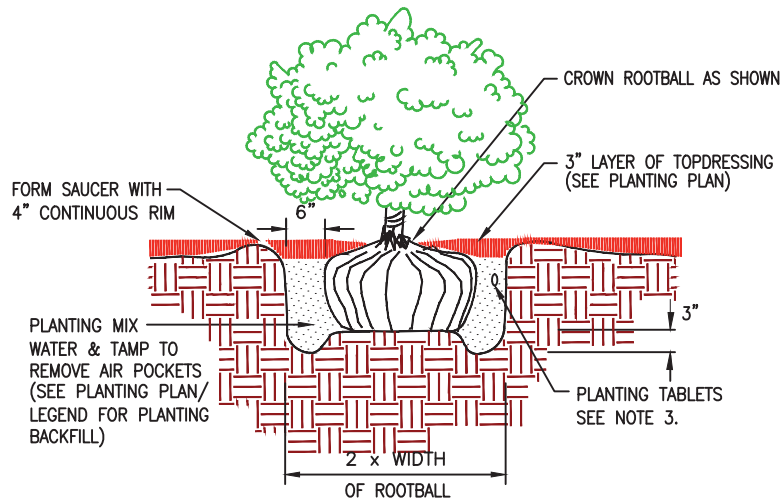
## TREE PLANTING AND IRRIGATION DETAILS

CITY OF REEDLEY

L-11



### SHRUB SPACING



### SHRUB PLANTING

#### NOTES:

1. APPLY SOIL AMENDMENT AS PER SOIL TEST.
2. CONSTRUCT MOUND AS REQUIRED TO SECURE PLANTS STABILITY DURING CONSTRUCTION INSTALLATION.
3. PLANTING TABLET SHALL BE PLACED 2-INCHES BELOW FINISHED GRADE NEAR ROOT FOUNDATION AS FOLLOWS:
  - 1 - TABLET PER 1 GAL.
  - 3 - TABLETS PER 5 GAL.
  - 6 - TABLETS PER 15 GAL.
  - 9 - TABLETS PER 24-INCH BOX
4. ANY AND ALL DEVIATIONS FROM THIS STANDARD SHALL BE APPROVED BY THE CITY ENGINEER PRIOR TO CONSTRUCTION.
5. ALL LANDSCAPE PLANTING AND INSTALLATION SHALL BE IN ACCORDANCE WITH APPROVED SPECIFIC LANDSCAPE IRRIGATION CONSTRUCTION PLANS, AND AS DIRECTED BY THE CITY ENGINEER.



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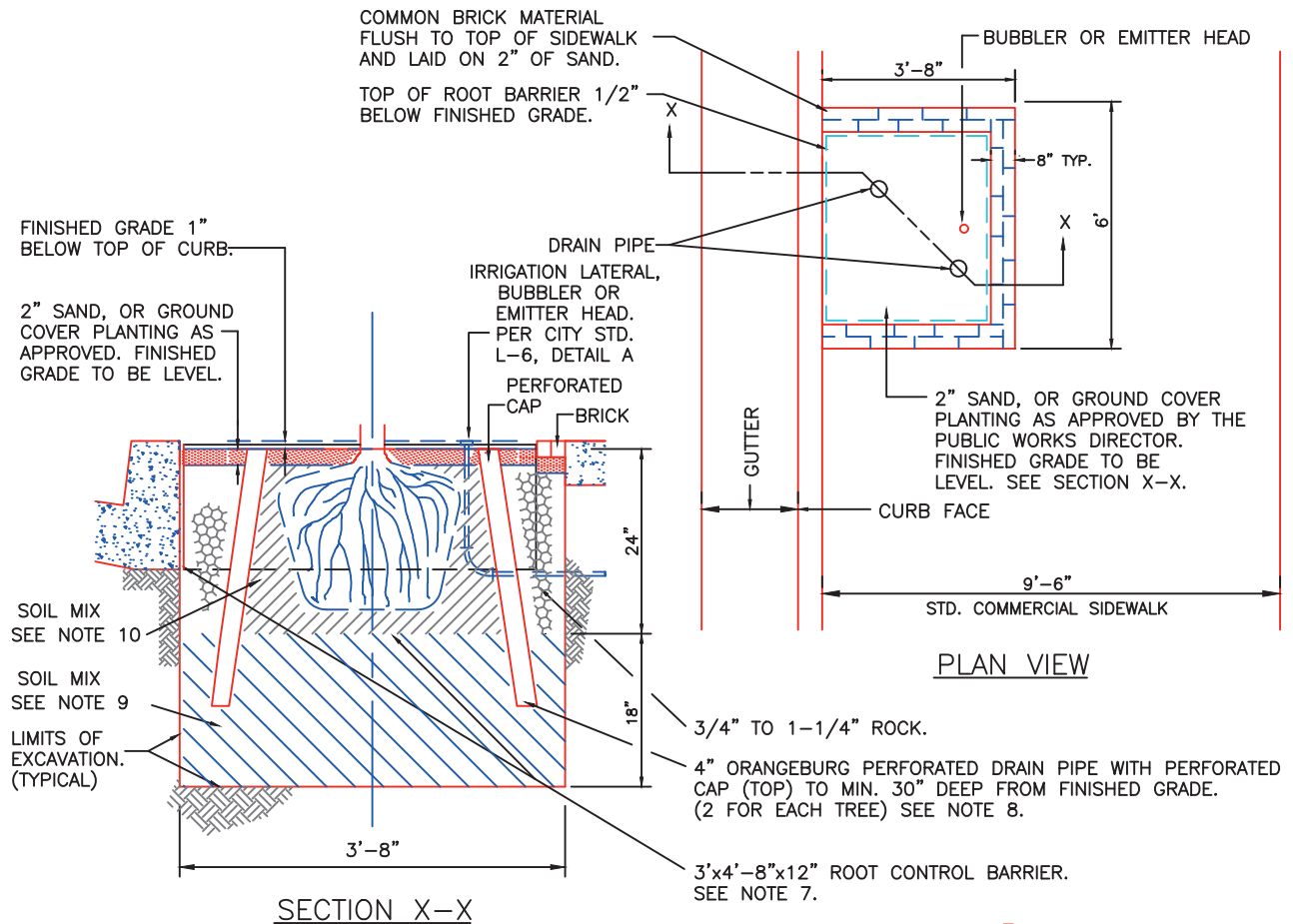
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## SHRUB PLANTING AND IRRIGATION DETAILS

*CITY OF REEDLEY*

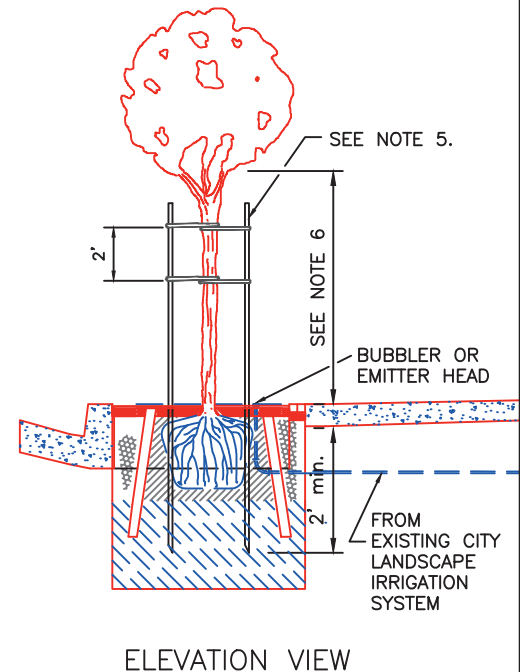
**L-12**





#### NOTES:

1. TREE VARIETY AND PLANTER SPACING TO CONFORM TO THE LIST OF APPROVED STREET TREES AND THE REQUIREMENTS OF THE CITY ENGINEER. ALL TREES PLANTED MUST HAVE STRONG CENTRAL LEADER.
2. INSTALLATION SUBJECT TO ENCROACHMENT PERMIT ISSUED BY THE PUBLIC WORKS DEPT.
3. IRRIGATION SYSTEM WITH DRIP EMITTER OR BUBBLER TO BE EXTENDED TO EACH TREE FROM CITY WATER SUPPLY.
4. TREE MAINTENANCE INCLUDING WATERING, FERTILIZING AND LEAF PICKUP TO BE THE RESPONSIBILITY OF THE DOWNTOWN STREETSCAPE COMMITTEE AND UNDER THE SUPERVISION OF THE PUBLIC WORKS DIRECTOR.
5. TREES SHALL BE SECURELY TIED TO STAKES 2"x2"x8' IN SIZE. REDWOOD OR TREATED FOUNDATION GRADE WOOD PLACED ON PRE-VAILING WINDWARD SIDE OF TREE WITH RUBBER TIE STRAPS.
6. MINIMUM VERTICAL CLEARANCE TO LOWEST:
  - a. LIMB OVERHANGING PARKING LANE = 14 FT.
  - b. LIMB OVERHANGING SIDEWALK = 7 FT.
7. ROOT CONTROL BARRIER SHALL BE #LB 12-2 AS MANUFACTURED BY DEEP ROOT, 345 LORTON AVE #103, BURLINGAME, CA, OR AS APPROVED BY THE CITY ENGINEER. VERTICAL ROOT DEFLECTING RIBS ON PANEL MUST FACE INWARD, TOWARD ROOT BALL. TOP EDGE OF BARRIER TO BE 1/2" BELOW GRADE.
8. FILL IN AROUND PERFORATED PIPE BELOW ROOT CONTROL BARRIER WITH 3/4" TO 1-1/4" ROCK TO 4" AROUND OUTSIDE PIPE.
9. SOIL MIX TO CONSIST OF SUITABLE NATIVE SOIL.
10. PLANTING BACKFILL MIX SHALL CONSIST OF 60% NATIVE SOIL & 40% NITROLIZED WOOD SHAVINGS.



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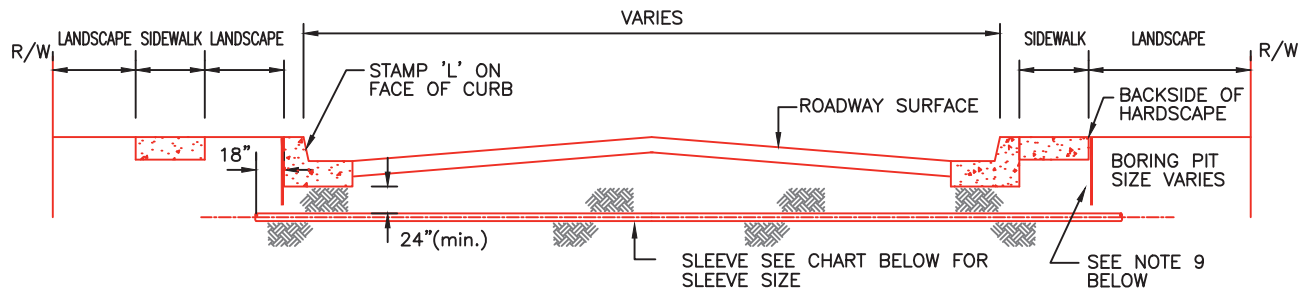
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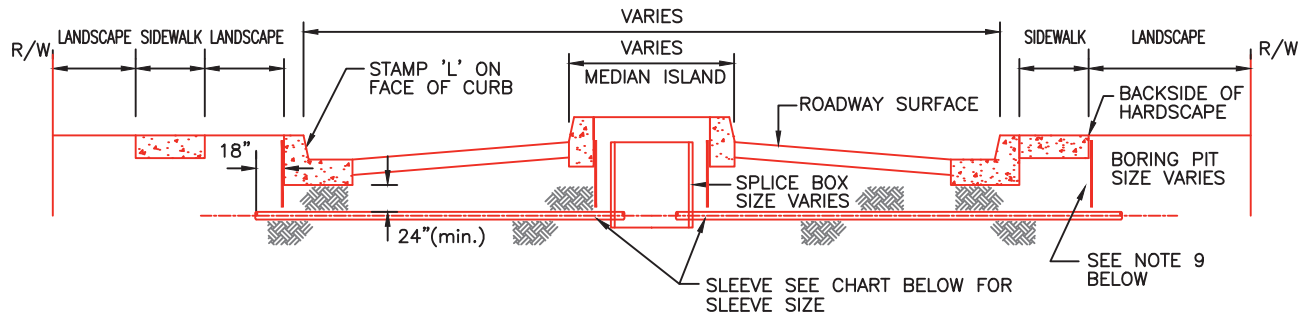
## DOWNTOWN STREETSCAPE TREE WELL STANDARD

CITY OF REEDLEY

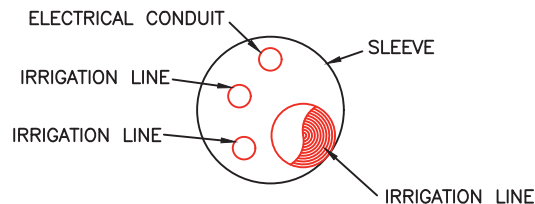
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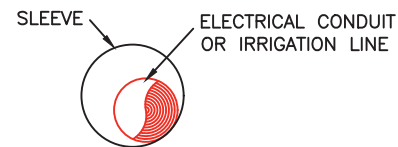
### IRRIGATION STREET CROSSOVER



### IRRIGATION STREET CROSSOVER WITH LANDSCAPE MEDIAN



MORE THAN ONE PIPE PER SLEEVE



ONE PIPE PER SLEEVE

**IRRIGATION SLEEVE CHART**  
INCREASE SLEEVE SIZE AS REQUIRED PER THIS CHART FOR MORE THAN ONE PIPE PER SLEEVE

PVC PIPE SIZE	SLEEVE SIZE		
	UNDER 18 Ft.	OVER 18 Ft. UNDER 28 Ft.	OVER 28 Ft.
1/2"	1"	1-1/4"	1-1/2"
3/4"	1-1/4"	1-1/2"	2"
1"	1-1/2"	2"	2"
1"-1/4"	2"	2-1/2"	2-1/2"
1"-1/2"	2-1/2"	2-1/2"	3"
2"	3"	3"	3"
2-1/2"	3"	3"	4"
3"	4"	5"	5"
3-1/2"	5"	5"	6"
4"	5"	6"	6"
5"	6"	8"	8"
6"	8"	8"	8"

#### NOTES:

1. ALL PIPING AND FITTINGS SHALL BE SCHEDULE 40 PVC UNLESS APPROVED EQUAL BY THE CITY ENGINEER.
2. WHERE CONDUIT (SLEEVE ONLY) IS INSTALLED, ONE PULL WIRE OR ROPE SHALL BE INSTALLED. THE LENGTH OF WIRE OR ROPE SHALL EXTEND 6 FT. PASS EACH END OF THE CONDUIT. EACH CONDUIT (SLEEVE) SHALL BE CAPPED AT EACH END.
3. ALL MATERIAL USED SHALL BE NEW AND FREE FROM IMPERFECTIONS.
4. SEE APPROVED LANDSCAPE/IRRIGATION PLANS AND LEGENDS FOR SPECIFIC MODEL NUMBERS, SIZE, MANUFACTURER'S, AND PERFORMANCE REQUIREMENTS.
5. ALL TRANSITIONS FROM GALVANIZED PIPE TO PVC SHALL BE CONSTRUCTED WITH SCHEDULE 40 FEMALE ADAPTER OR APPROVED EQUAL BY THE CITY ENGINEER.
6. ALL IRRIGATION INSTALLATION SHALL BE IN ACCORDANCE WITH CITY STANDARDS, THE LATEST EDITION OF THE UNIFORM PLUMBING CODE, MANUFACTURER'S RECOMMENDATIONS, AND AS DIRECTED BY THE CITY ENGINEER.
7. VERIFY ALL MEASUREMENTS AND SPECIFIC SITE CONDITIONS IN THE FIELD.
8. ROUTE PIPE(S) AS REQUIRED AS PER APPROVED LANDSCAPE/IRRIGATION PLANS.
9. INSTALL 2"x4"x24" REDWOOD STAKES AT EACH END OF SLEEVE AT HARDSCAPE. TOP OF REDWOOD STAKE 1-INCH BELOW TOP OF HARDSCAPE.
10. THE METHOD USED FOR BORING SHALL BE REVIEWED AND APPROVED BY THE CITY ENGINEER PRIOR TO START OF OPERATION.
11. ANY AND ALL CHANGES SHALL BE APPROVED BY THE CITY ENGINEER PRIOR TO CONSTRUCTION.

"CONTRACTOR SHALL CONTACT UTILITY COMPANIES PRIOR TO BORING"



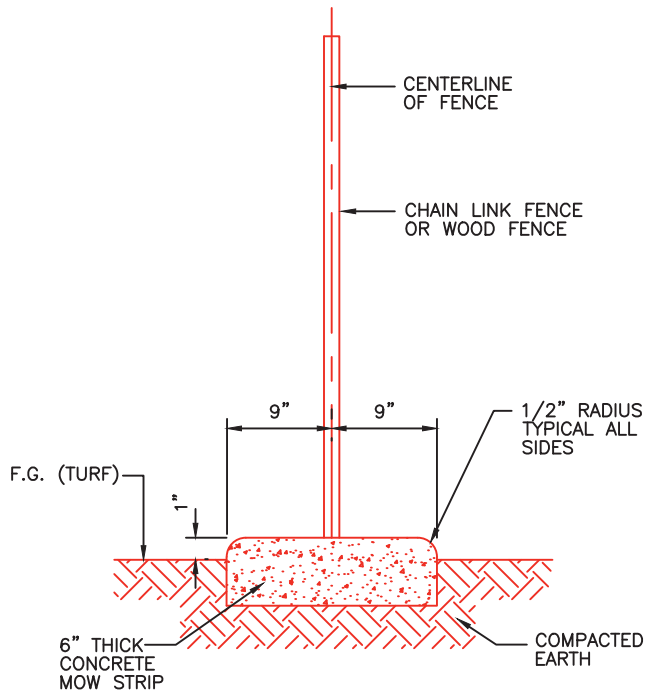
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## IRRIGATION SLEEVE DETAILS

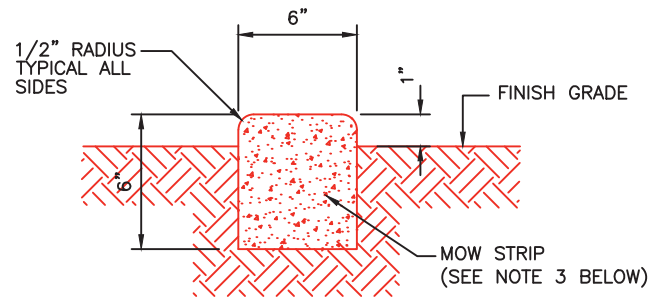
*CITY OF REEDLEY*

**L-14**

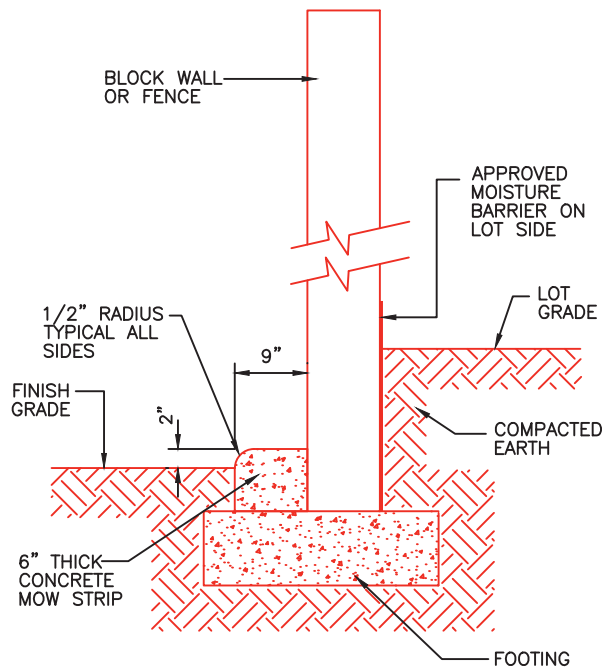




MOW STRIP AT FENCE



CONCRETE MOW STRIP



MOW STRIP AT WALL AND FENCE

**NOTES:**

1. CONSTRUCT A DEEP SCORE EXPANSION JOINT AT EVERY FENCE POST AND EVERY 15 FT. ON ALL CONCRETE SURFACES.
2. ALL AREAS TO RECEIVE CONCRETE SHALL BE COMPACTED TO 90% RELATIVE DENSITY FOR A DEPTH OF 0.5 FT. AS APPROVED BY THE CITY ENGINEER.
3. TOP OF MOW STRIP SHALL BE 1-INCH ABOVE FINISHED GRADE WHEN ADJACENT TO TURF AND 2-INCHES ABOVE FINISHED GRADE WHEN ADJACENT TO PLANTER.
4. WHERE THE GRADE ON THE LOT SIDE OF THE WALL IS HIGHER THAN THE GRADE ON THE STREET SIDE OF THE WALL, WATER PROOFING IS REQUIRED. SEE STANDARD PLAN L-10 FOR WATER PROOFING REQUIREMENTS.
5. ANY AND ALL CHANGES FROM THIS STANDARD DETAIL SHEET SHALL BE APPROVED BY THE CITY ENGINEER PRIOR TO CONSTRUCTION.
6. ALL CONCRETE SHALL BE CLASS 'B' IN ACCORDANCE WITH SECTION 16 OF THE CITY STANDARD SPECIFICATIONS AND AS APPROVED BY THE CITY ENGINEER.

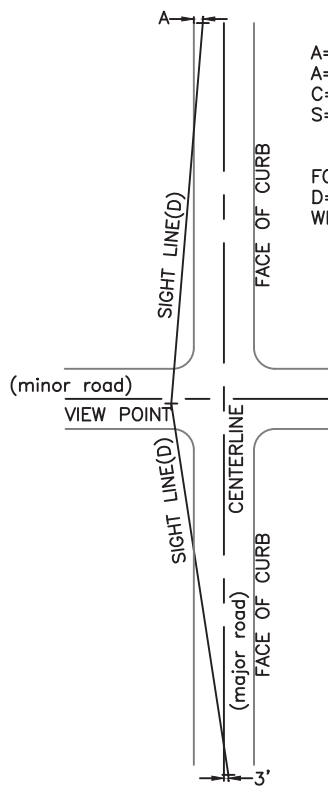


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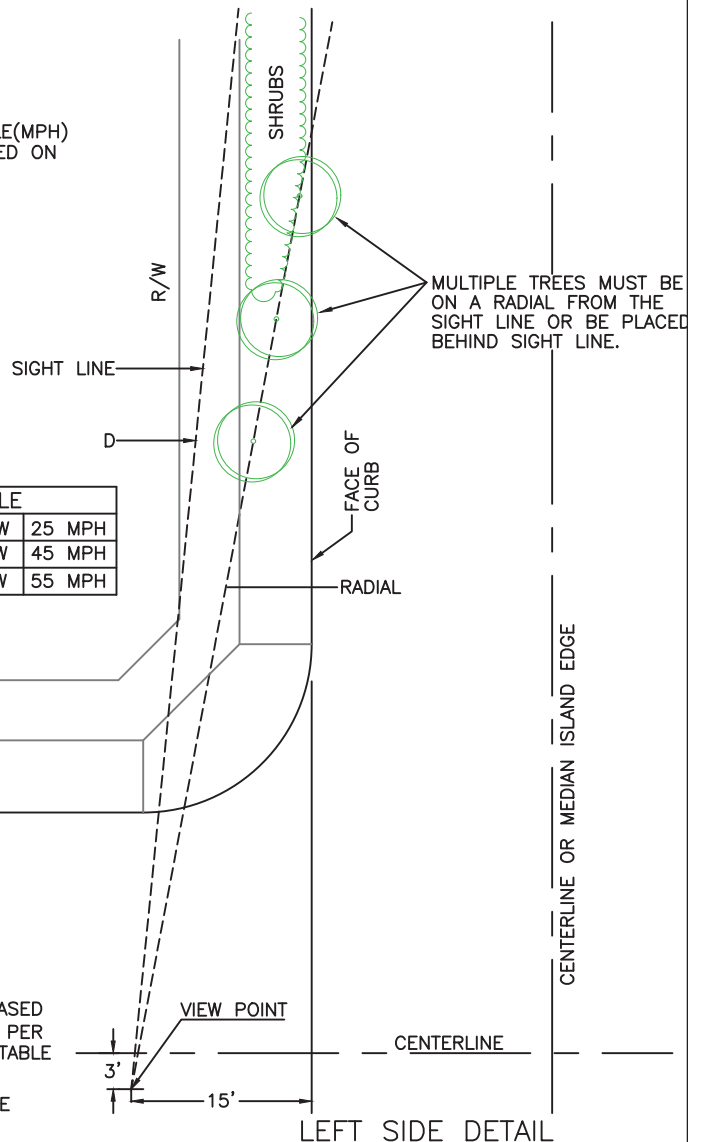
**CONCRETE MOW STRIP  
DETAILS**

*CITY OF REEDLEY*

**L-15**



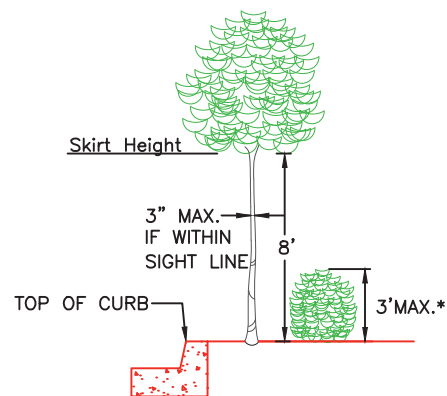
DESIGN SPEEDS TABLE		
LOCAL STREET	57-60' R/W	25 MPH
MAJOR COLLECTOR	84' R/W	45 MPH
MAJOR ARTERIAL	110' R/W	55 MPH



## SIGHT DISTANCE DIAGRAM

### NOTES:

1. TREES AND SHRUBS WITHIN SIGHT LINE AND TREE CANOPIES OVER SIDEWALKS SHALL CONFORM TO THE DETAIL BELOW.
2. SIGHT DISTANCE AT CONTROLLED INTERSECTIONS SHALL BE BASED ON A SIGHT DISTANCE EQUAL TO DESIGN SPEED(S) IN MILES PER HOUR MULTIPLIED BY A FACTOR OF 10. SEE DESIGN SPEEDS TABLE FOR VARIOUS STREET CLASSIFICATIONS.
3. CORNER SIGHT DISTANCE IS MEASURED FROM A POINT ON THE MINOR ROAD 15' FROM THE EDGE OF THE MAJOR ROAD PAVEMENT, AND 3' RIGHT OF THE LEFT EDGE OF THE LANE UNDER CONSIDERATION. SAID POINT IS VIEWED FROM A HEIGHT OF 3.5' ON THE MINOR ROAD TO A HEIGHT OF 4.25' ON THE MAJOR ROAD.
4. THE LOCATION OF THE OBJECT TO THE LEFT IS 12' FROM THE NEAREST EDGE OF THE MAJOR ROAD (6' WITH PARKING PROHIBITED). PARKING SHALL BE ASSUMED TO BE PROHIBITED ON MAJOR ARTERIAL STREETS OR AS DIRECTED BY THE CITY ENGINEER.
5. THE LOCATION OF THE OBJECT TO THE RIGHT IS TO BE MEASURED AT 1/2 THE MAJOR ROAD WIDTH PLUS 3' FROM THE NEAREST EDGE OF THE MAJOR STREET.
6. LANDSCAPING OVER 3' IN HEIGHT ABOVE TOP OF CURB SHALL NOT BE PLACED WITHIN THE LINE OF SIGHT. ALL LANDSCAPING MUST BE MAINTAINED AT A HEIGHT OF 3' OR LESS WITH THE EXCEPTION OF TREES.
7. TREES ARE PERMITTED IN THE LINE OF SIGHT FOR CONTROLLED INTERSECTIONS PROVIDED THAT THE SKIRT HEIGHT (BOTTOM OF FOLIAGE) IS MAINTAINED 8' ABOVE THE ADJACENT TOP OF CURB. IN THE EVENT MORE THAN 1 TREE IS PLACED IN THE SIGHT LINE AREA THEY MUST BE PLACED ON A RADIAL FROM THE VIEW POINT.
8. ANY AND ALL CHANGES FROM THIS STANDARD SHALL BE DESIGNED BY A TRAFFIC ENGINEER AND SUBMITTED TO THE CITY ENGINEER FOR REVIEW AND APPROVAL PRIOR TO ANY TYPE OF CONSTRUCTION.



\* Measure from top of curb for solid objects, i.e. fences, walls, etc.

## TREE HEIGHT DETAIL

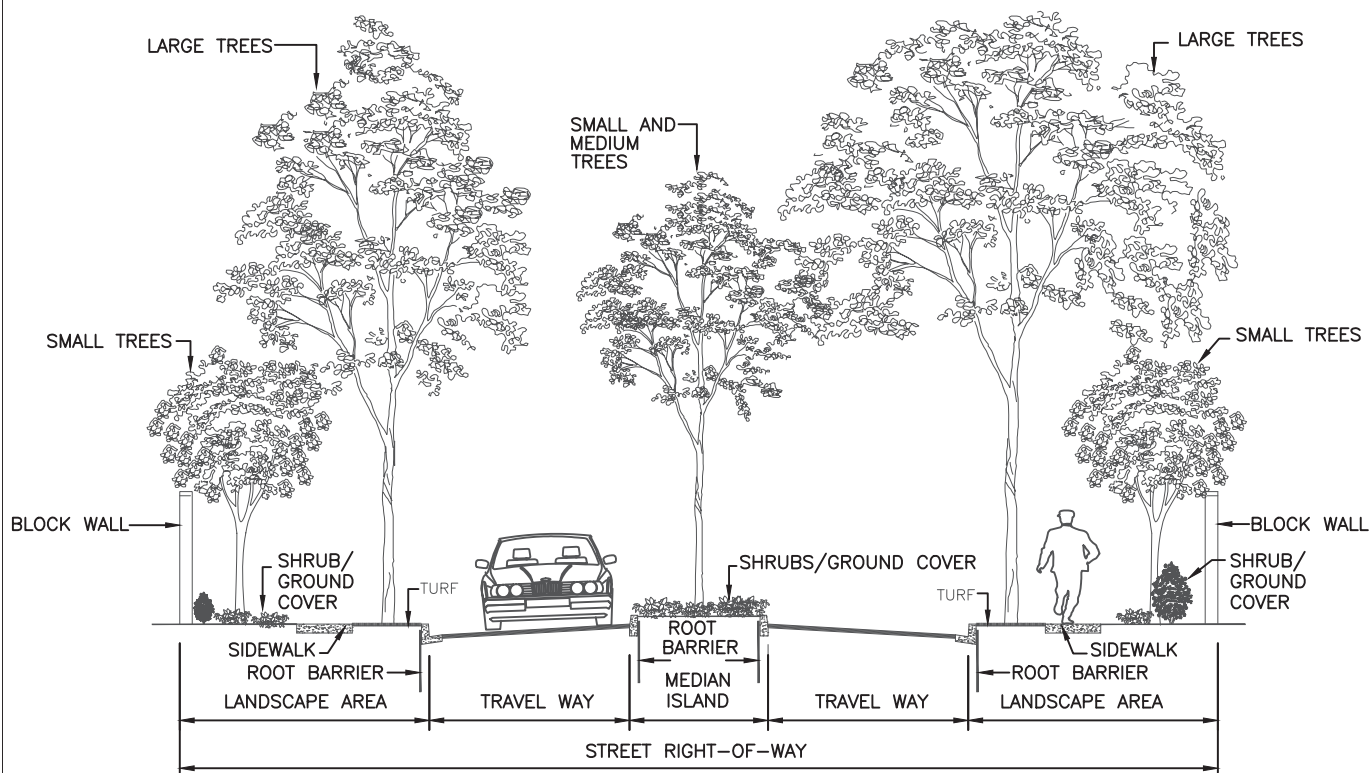


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# TYPICAL SIGHT DISTANCE REQUIREMENTS FOR CONTROLLED INTERSECTION WITH LANDSCAPING

CITY OF REEDLEY

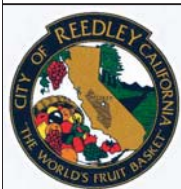
L-16



LANDSCAPING SHALL BE PROVIDED ON MAJOR ARTERIAL, ARTERIALS AND COLLECTOR STREETS ON WHICH IS PLACED A REQUIREMENT FOR CONSTRUCTION OF MASONRY BLOCK WALLS, MEDIAN ISLANDS, OR OTHER SUCH AREAS AS REQUIRED BY THE CITY OF REEDLEY.

MAJOR ARTERIAL STREETS WILL REQUIRE A LANDSCAPE AREA WITH A MINIMUM WIDTH OF 21 FEET INCLUDING THE MASONRY BLOCK WALL BEHIND THE CITY STANDARD SIDEWALK.

ARTERIALS & COLLECTOR STREETS WILL REQUIRE A LANDSCAPED AREA WITH A MINIMUM WIDTH OF 17 FEET INCLUDING THE WIDTH OF THE MASONRY BLOCK WALL BEHIND THE CITY STANDARD SIDEWALK.



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## LANDSCAPING ON MAJOR ARTERIALS AND MAJOR COLLECTOR STREETS

*CITY OF REEDLEY*

**L-17**

**LARGE TREES**  
**Greater than 8-foot Planter Area**

<i>Scientific name</i> <b>Common name</b>	<i>Tree well</i>	<i>Parkway</i>	<i>Spacing</i>	<i>Tree size</i>	<i>Street tree</i>	<i>Riparian/ Native</i>	<i>Park</i>
<i>Acer rubrum</i> 'Red Sunset' Red Maple 'Red Sunset'	4x4	6' - 8'	35' - 40'	large	X		X
<i>Ginkgo biloba</i> 'Autumn Gold' Ginkgo 'Autumn Gold'	4.5' x 4.5'	6' - 8'	25' - 30'	large	X		X
<i>Ginkgo biloba</i> 'Magyar' Ginkgo 'Magyar'	4.5' x 4.5'	6' - 8'	25' - 30'	large	X		X
<i>Ginkgo biloba</i> 'Saratoga' Ginkgo 'Saratoga'	4.5' x 4.5'	6' - 8'	25' - 30'	large	X		X
<i>Platanus acerfolia</i> 'Bloodgood' London Plant Tree	4'x4'	4' - 6'	35' - 40'	large	X		X
<i>Platanus racemosa</i> California Sycamore	5' x 5'	6' - 8'	35' - 40'	large		X	
<i>Quercus agrifolia</i> Coastal Live Oak	5' x 5'	6' - 8'	35' - 40'	large	X	X	X
<i>Quercus frainetto</i> Forest Green Oak	4' x 4"	5' - 8'	35' - 40'	large	X		X
<i>Quercus lobata</i> Valley Oak	5' x 5'	5' - 8'	35' - 40'	large	X	X	X
<i>Quercus muehlenbergii</i> Chinkapin oak	5' x 5'	6' - 8'	35' - 40'	large	X		X
<i>Quercus phellos</i> Willow oak	5' x 5'	6' - 8'	35' - 40'	large	X		X
<i>Quercus shumardii</i> Shumard Oak	5' x 5'	5' - 8'	35' - 40'	large	X		X
<i>Quercus suber</i> Cork Oak	5' x 5'	5' - 8'	35' - 40'	large	X		X
<i>Quercus virginiana</i> Southern Live Oak	5' x 5'	5' - 8'	35' - 40'	large	X		X
<i>Quercus wislizenii</i> Interior Live Oak	5' x 5'	5' - 8'	35' - 40'	large	X	X	X
<i>Ulmus carpinifolia</i> x <i>U. parvifolia</i> Frontier elm	5' x 5'	5' - 8'	35' - 40'	large	X		X
<i>Ulmus parvifolia</i> Chinese Elm 'Allee'	5' x 5'	5' - 8'	35' - 40'	large	X		X
<i>Zelkova serrata</i> 'Green Vase' Green Vase Zelkova	5' x 5'	5' - 8'	35' - 40'	large	X		X
<i>Zelkova serrata</i> 'Musashino' Musashino Zelkova	5' x 5'	5' - 8'	35' - 40'	large	X		X
<i>Zelkova serrata</i> 'Village Green' Village Green Zelkova	5' x 5'	5' - 8'	35' - 40'	large	X		X



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**LARGE STREET TREE**

*CITY OF REEDLEY*

**L-18**

**MEDIUM TREES**  
**5-foot to 8-foot Planter Area**

<i>Scientific name</i> <b>Common name</b>	<i>Tree well</i>	<i>Parkway</i>	<i>Spacing</i>	<i>Tree size</i>	<i>Street tree</i>	<i>Riparian/ Native</i>	<i>Park</i>
<i>Acer buergeranum</i> Trident Maple	3' X 3'	3' - 6'	25'-30'	medium	X		X
<i>Koelreuteria paniculata</i> Goldenrain	4.5' x 4.5'	4' - 6'	25' - 30'	medium	X		X
<i>Laurus nobilis 'Saratoga'</i> Laural Saratoga	3' X 3'	3' - 6'	25'-30'	medium	X		X
<i>Magnolia 'Vulcan'</i> Vulcan Magnolia	3' x 3'	3' - 6'	15' - 20'	medium	X		X
<i>Magnolia 'Galaxy'</i> Galaxy Magnolia	3' x 3'	3' - 6'	15' - 20'	medium	X		X
<i>Nyssa sylvatica 'forum'</i> Tupelo'	4'x4'	4' - 6'	25' - 30'	medium	X		X
<i>Pistacia Chinesis</i> Chinese Pistache	4'x4'	4' - 6'	25' - 30'	medium	X		X
<i>Pistacia Chinesis</i> Chinese Pistache 'Keith Davey'	4'x4'	4' - 6'	25' - 30'	medium	X		X
<i>Pyrus kawakamii</i> Evergreen Pear	4'x4'	4' - 6'	25' - 30'	medium	X		X
<i>Zelkova serrata 'Wireless'</i> Wireless zelkova	5' x 5'	5' - 8'	35' - 40'	medium	X		X



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REF. STD. DWG.:

**MEDIUM STREET TREE**

*CITY OF REEDLEY*

**L-19**

**SMALL TREES**  
**Less than 5-foot Planter Area**

<i>Scientific name</i> <b>Common name</b>	<i>Tree well</i>	<i>Parkway</i>	<i>Spacing</i>	<i>Tree size</i>	<i>Street tree</i>	<i>Riparian/ Native</i>	<i>Park</i>
<i>Cercis canadensis</i> Eastern Redbud	3' x 3'	2' - 4'	20' - 30'	small	X		X
<i>Cercis mexicana</i> Mexicana Redbud	3' x 3'	2' - 4'	20' - 30'	small	X		X
<i>Cercis canadensis</i> 'Oklahoma' Eastern Redbud 'Oklahoma'	3' x 3'	2' - 4'	20' - 30'	small	X		X
<i>Lagerstroemia indica</i> Crape myrtle	3' X 3'	3' - 6'	25'-30'	small	X		X
<i>Magnolia 'Rustica Rubran'</i> Rustica Rubran Magnolia	3' x 3'	3' - 6'	15' - 20'	small	X		X



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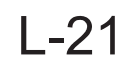
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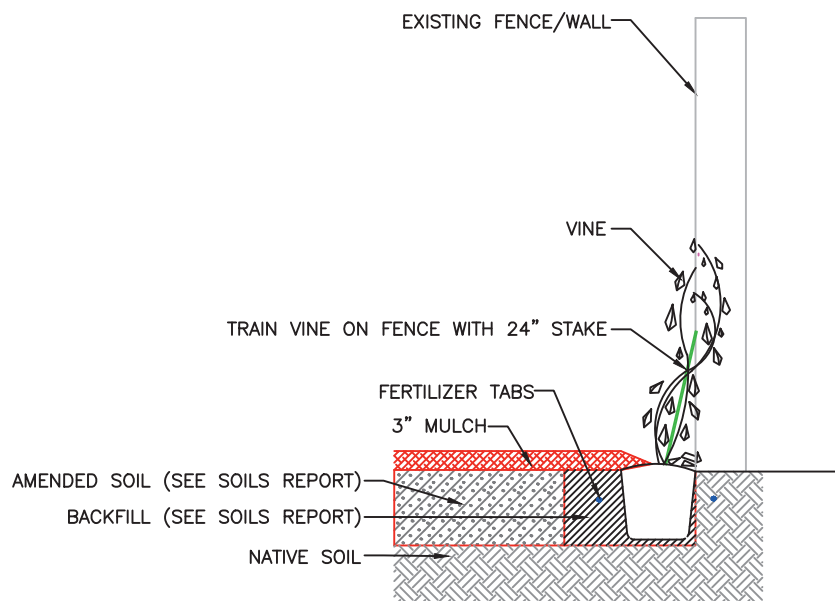
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**SMALL STREET TREE**

*CITY OF REEDLEY*

**L-20**





VINE PLANTING ON FENCE – AMENDED SOIL



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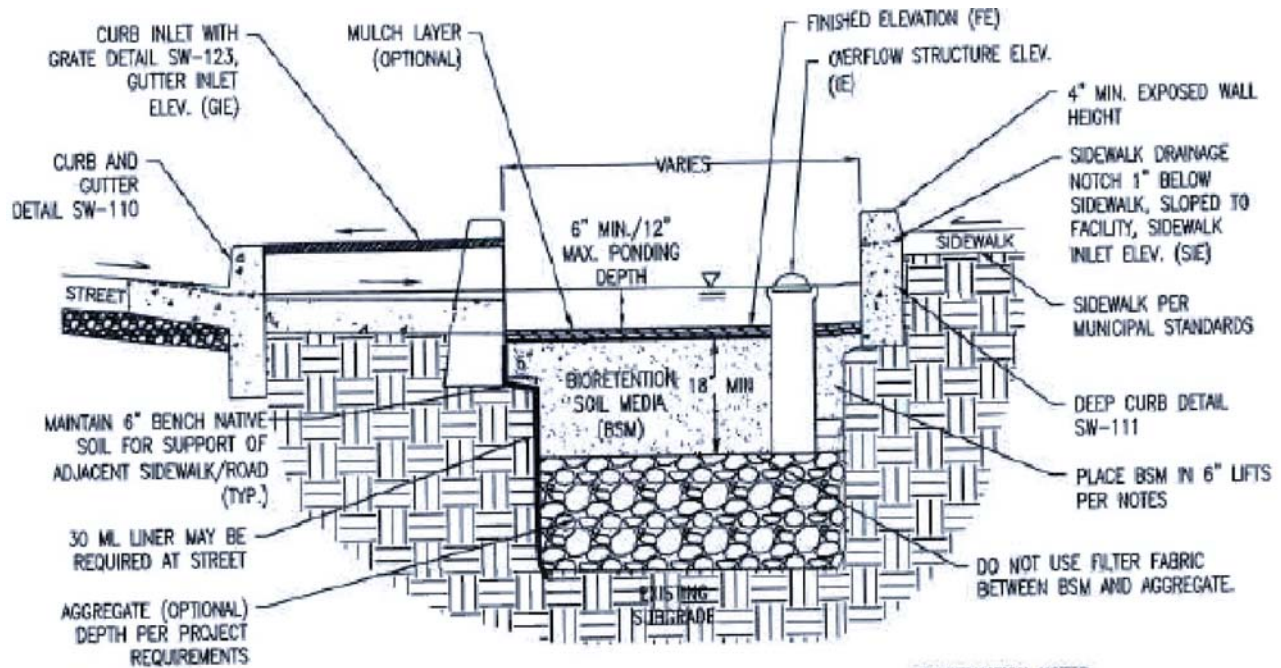
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## VINE PLANTING

*CITY OF REEDLEY*

**L-22**





#### DESIGN NOTES

1. ADDITIONAL DESIGN GUIDANCE PROVIDED IN BIORETENTION TECHNICAL SPECIFICATIONS DOCUMENT.
2. OVERFLOW STRUCTURE REQUIRED FOR IN-LINE SYSTEMS WITHOUT OVERFLOW BYPASS, DETAIL SW-140.
3. PROVIDE SPOT ELEVATIONS AT INLETS ON CIVIL PLANS (FE, OE, GIE, SIE). SEE DETAIL SW-120.
4. EDGE CONDITION WILL VARY FOR NEW AND RETROFIT PROJECTS. CURB, WALL, AND SIDEWALK DETAILS MAY BE MODIFIED FOR PROJECT BY CIVIL AND GEOTECHNICAL ENGINEERS SUBJECT TO APPROVAL BY THE CITY ENGINEER.
5. IF CHECK DAMS ARE NEEDED, SEE CONCRETE CHECK DAM DETAIL SW-131.
6. PROVIDE MONITORING WELL IN EACH FACILITY, PER BIORETENTION TECHNICAL SPECIFICATIONS.
7. IF CALTRANS CLASS 2 PERMEABLE IS NOT AVAILABLE, SUBSTITUTE CLASS 3 PERMEABLE WITH AN OVERLYING 3" DEEP LAYER OF 3/4" (NO. 4) OPEN-GRADED AGGREGATE.
8. BIORETENTION SOIL MEDIA (BSM) SPECIFICATION PER BIORETENTION TECHNICAL SPECIFICATIONS.
9. PLANTING DESIGN AND IRRIGATION PER BIORETENTION TECHNICAL SPECIFICATIONS.
10. MULCH (OPTIONAL) PER BIORETENTION TECHNICAL SPECIFICATIONS.
11. LOCATE ENERGY DISSIPATION COBBLE ONLY AS SPECIFIED IN INLET DETAILS - AVOID DECORATIVE USE.

#### CONSTRUCTION NOTES

1. SCARIFY SUBGRADE BEFORE INSTALLING BIORETENTION AREA AGGREGATE AND BSM.
2. FACILITY EXCAVATION TO ALLOW FOR SPECIFIED SOIL AND MULCH DEPTHS TO ACHIEVE FINISHED ELEVATIONS ON CIVIL PLANS.
3. COMPACT EACH 6" LIFT OF BSM WITH LANDSCAPE ROLLER OR BY LIGHTLY WETTING. IF WETTING, ALLOW TO DRY OVERNIGHT BEFORE PLANTING.
4. DO NOT WORK WITHIN BIORETENTION AREA DURING RAIN OR UNDER WET CONDITIONS.
5. KEEP HEAVY MACHINERY OUTSIDE BIORETENTION AREA LIMITS.
6. LAYBACK SLOPE AS FLAT AS POSSIBLE UNTIL TOP WIDTH PRODUCES 1:1 SLOPE & 24" BOTTOM WIDTH. AS PLANTER GETS WIDER MAINTAIN 1:1 SLOPE AND INCREASE BOTTOM WIDTH WIDER THAN 24". ALTERNATIVE TRENCH WALL CONFIGURATIONS MAY BE PROPOSED BY THE PROJECT GEOTECHNICAL ENGINEER (I.E. VERTICAL SHORING, REINFORCED TRENCH SIDEWALL) THAT DON'T REQUIRE SIDEWALK SUPPORT FROM THE LIGHTLY COMPACTED BSM.



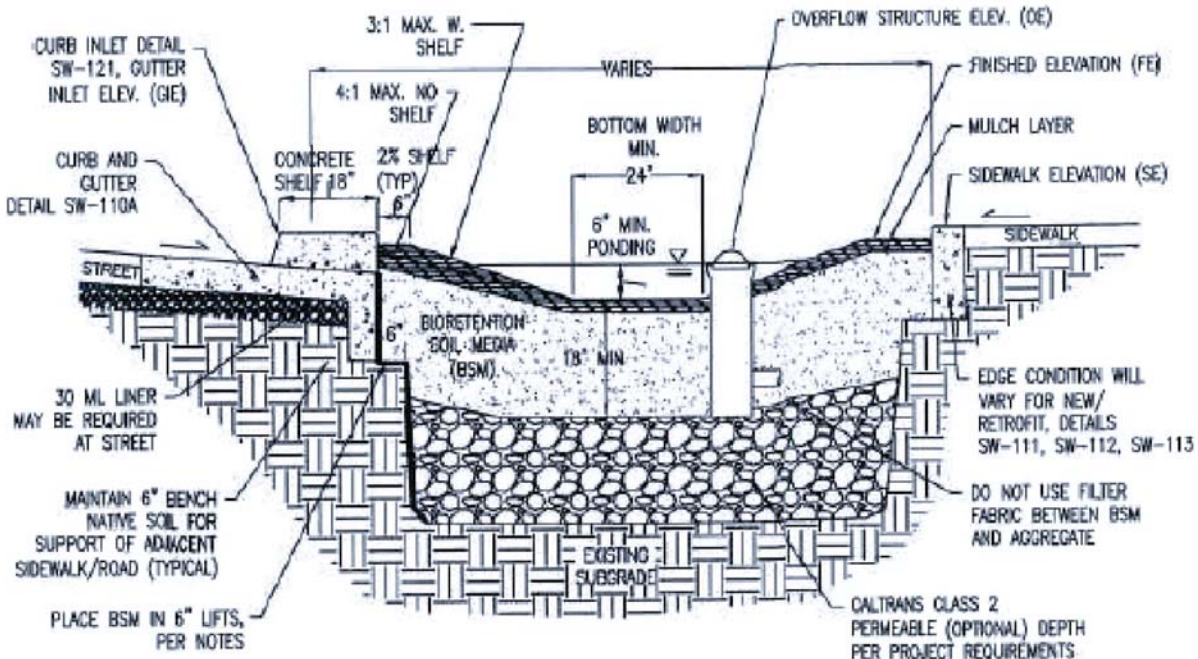
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## STREET BIORETENTION FACILITY

FLAT/PLANTER, ON-STREET PARKING,  
SIDEWALK, WITHOUT UNDERDRAIN

CITY OF REEDLEY

LID-1



#### DESIGN NOTES

1. ADDITIONAL DESIGN GUIDANCE PROVIDED IN BIORETENTION TECHNICAL SPECIFICATIONS DOCUMENT.
2. OVERFLOW STRUCTURE REQUIRED FOR IN-LINE SYSTEMS WITHOUT OVERFLOW BYPASS, DETAIL SW-140.
3. PROVIDE SPOT ELEVATIONS AT INLETS ON CIVIL PLANS (FE, OE, GIE, SE). SEE DETAIL SW-121.
4. MAX. LONGITUDINAL SLOPE 6% WITH CHECK DAMS. SEE DETAILS SW-130, SW-131.
5. EDGE CONDITION WILL VARY FOR NEW AND RETROFIT PROJECTS. CURB AND SIDEWALK DETAILS MAY BE MODIFIED FOR PROJECT BY CIVIL AND GEOTECHNICAL ENGINEERS SUBJECT TO APPROVAL BY THE CITY ENGINEER.
6. PROVIDE MONITORING WELL IN EACH FACILITY, PER BIORETENTION TECHNICAL SPECIFICATIONS.
7. IF CALTRANS CLASS 2 PERMEABLE IS NOT AVAILABLE, SUBSTITUTE CLASS 3 PERMEABLE WITH AN OVERLYING 3\"/>
8. BIORETENTION SOIL MEDIA (BSM) SPECIFICATION PER BIORETENTION TECHNICAL SPECIFICATIONS.
9. PLANTING DESIGN AND IRRIGATION PER BIORETENTION TECHNICAL SPECIFICATIONS.
10. MULCH (OPTIONAL) PER BIORETENTION TECHNICAL SPECIFICATIONS.
11. LOCATE ENERGY DISSIPATION COBBLE ONLY AS SPECIFIED IN INLET DETAILS - AVOID DECORATIVE USE.

#### CONSTRUCTION NOTES

1. SCARIFY SUBGRADE BEFORE INSTALLING BIORETENTION AREA AGGREGATE AND BSM.
2. FACILITY EXCAVATION TO ALLOW FOR SPECIFIED SOIL AND MULCH DEPTHS TO ACHIEVE FINISHED ELEVATIONS ON CIVIL PLANS.
3. COMPACT EACH 6\"/>
4. DO NOT WORK WITHIN BIORETENTION AREA DURING RAIN OR UNDER WET CONDITIONS.
5. KEEP HEAVY MACHINERY OUTSIDE BIORETENTION AREA LIMITS.
6. LAYBACK SLOPE AS FLAT AS POSSIBLE UNTIL TOP WIDTH PRODUCES 1:1 SLOPE & 24\"/>



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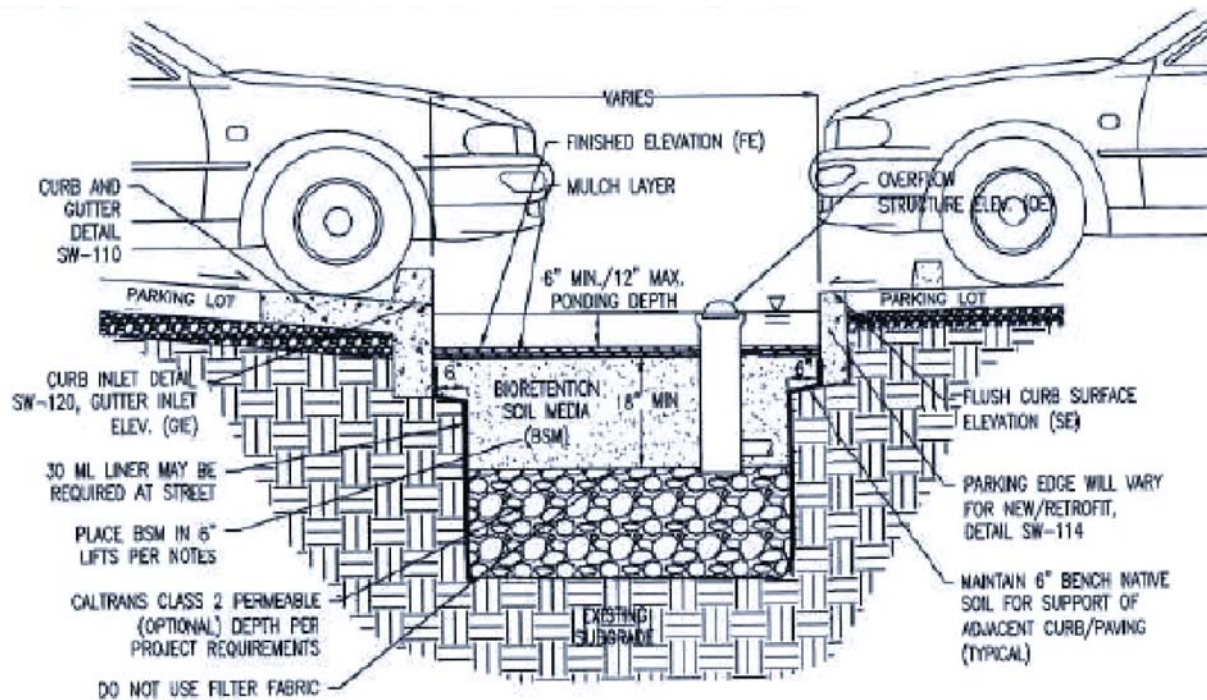
## STREET BIORETENTION FACILITY

SLOPE SIDED, ON-STREET PARKING  
SIDEWALK, WITHOUT UNDERDRAIN

*CITY OF REEDLEY*

**LID-2**





#### DESIGN NOTES

1. ADDITIONAL DESIGN GUIDANCE PROVIDED IN BIORETENTION TECHNICAL SPECIFICATIONS DOCUMENT.
2. OVERFLOW STRUCTURE REQUIRED FOR IN-LINE SYSTEMS WITHOUT OVERFLOW BYPASS, DETAIL SW-140.
3. PROVIDE SPOT ELEVATIONS AT INLETS ON CIVIL PLANS (FE, OE, GIE, SE). SEE DETAIL SW-120.
4. EDGE CONDITION WILL VARY FOR PARKING LOT PROJECTS. SEE PARKING LOT EDGE OPTIONS DETAILS, SW-114. CURB AND FLUSH EDGE DETAILS MAY BE MODIFIED FOR PROJECT BY CIVIL AND GEOTECHNICAL ENGINEERS SUBJECT TO APPROVAL BY THE CITY ENGINEER.
5. IF CHECK DAMS ARE NEEDED, SEE CONCRETE CHECK DAM DETAIL SW-131.
6. PROVIDE MONITORING WELL IN EACH FACILITY, PER BIORETENTION TECHNICAL SPECIFICATIONS.
7. IF CALTRANS CLASS 2 PERMEABLE IS NOT AVAILABLE, SUBSTITUTE CLASS 3 PERMEABLE WITH AN OVERLYING 3" DEEP LAYER OF 3/4" (NO. 4) OPEN-GRADED AGGREGATE.
8. BIORETENTION SOIL MEDIA (BSM) SPECIFICATION PER BIORETENTION TECHNICAL SPECIFICATIONS.
9. PLANTING DESIGN AND IRRIGATION PER BIORETENTION TECHNICAL SPECIFICATIONS.
10. MULCH (OPTIONAL) PER BIORETENTION TECHNICAL SPECIFICATIONS.
11. LOCATE ENERGY DISSIPATION COBBLE ONLY AS SPECIFIED IN INLET DETAILS - AVOID DECORATIVE USE.

#### CONSTRUCTION NOTES

1. SCARIFY SUBGRADE BEFORE INSTALLING BIORETENTION AREA AGGREGATE AND BSM.
2. FACILITY EXCAVATION TO ALLOW FOR SPECIFIED SOIL AND MULCH DEPTHS TO ACHIEVE FINISHED ELEVATIONS ON CIVIL PLANS.
3. COMPACT EACH 6" LIFT OF BSM WITH LANDSCAPE ROLLER OR BY LIGHTLY WETTING. IF WETTING, ALLOW TO DRY OVERNIGHT BEFORE PLANTING.
4. DO NOT WORK WITHIN BIORETENTION AREA DURING RAIN OR UNDER WET CONDITIONS.
5. KEEP HEAVY MACHINERY OUTSIDE BIORETENTION AREA LIMITS.
6. LAYBACK SLOPE AS FLAT AS POSSIBLE UNTIL TOP WIDTH PRODUCES 1:1 SLOPE & 24" BOTTOM WIDTH, AS PLANTER GETS WIDER MAINTAIN 1:1 SLOPE AND INCREASE BOTTOM WIDTH WIDER THAN 24". ALTERNATIVE TRENCH WALL CONFIGURATIONS MAY BE PROPOSED BY THE PROJECT GEOTECHNICAL ENGINEER (I.E. VERTICAL SHORING, REINFORCED TRENCH SIDEWALL) THAT DON'T REQUIRE SIDEWALK SUPPORT FROM THE LIGHTLY COMPACTED BSM.



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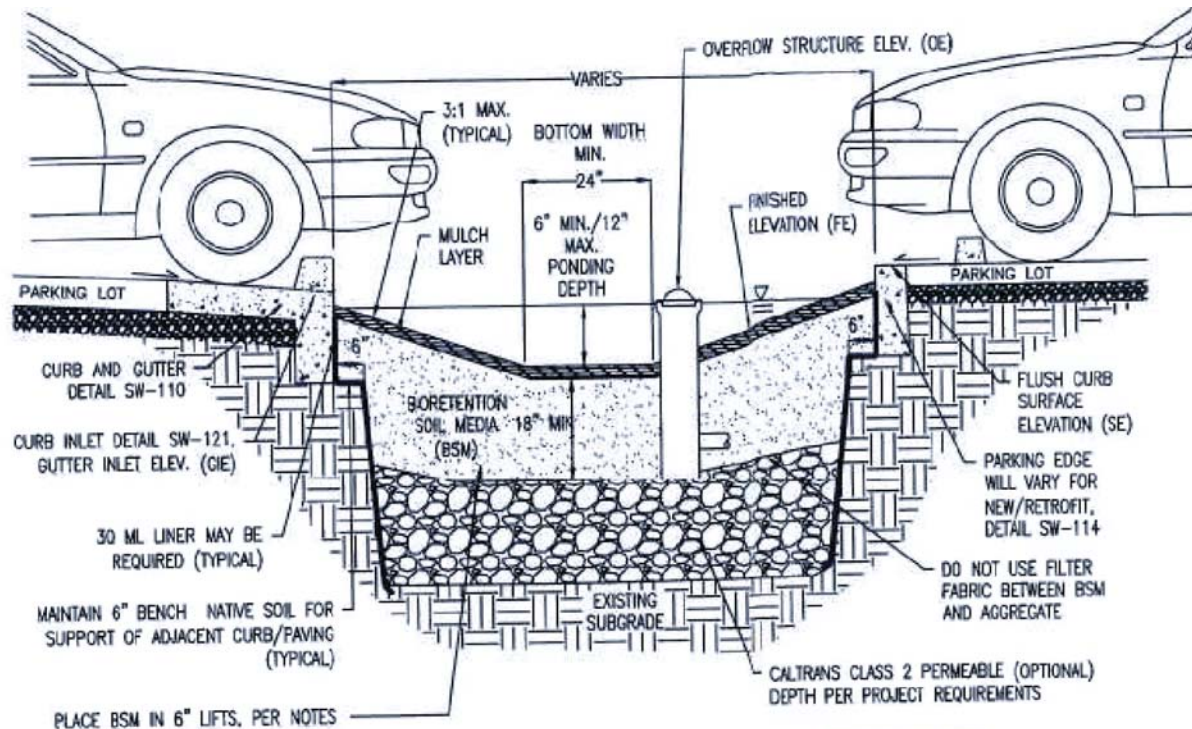
## PARKING LOT BIORETENTION FACILITY

FLAT/PLANTER WITHOUT UNDERDRAIN

CITY OF REEDLEY

LID-3





#### DESIGN NOTES

1. ADDITIONAL DESIGN GUIDANCE PROVIDED IN BIORETENTION TECHNICAL SPECIFICATIONS DOCUMENT.
2. OVERFLOW STRUCTURE REQUIRED FOR IN-LINE SYSTEMS WITHOUT OVERFLOW BYPASS, DETAIL SW-140.
3. PROVIDE SPOT ELEVATIONS AT INLETS ON CIVIL PLANS (FE, OE, GIE, SE). SEE DETAIL SW-121.
4. MAX. LONGITUDINAL SLOPE 6% WITH CHECK DAMS. SEE DETAILS SW-130, SW-131.
4. EDGE CONDITION WILL VARY FOR PARKING LOT PROJECTS. SEE PARKING LOT EDGE OPTIONS DETAILS, SW-114. CURB AND FLUSH EDGE DETAILS MAY BE MODIFIED FOR PROJECT BY CIVIL AND GEOTECHNICAL ENGINEERS SUBJECT TO APPROVAL BY THE CITY ENGINEER.
5. PROVIDE MONITORING WELL IN EACH FACILITY, PER BIORETENTION TECHNICAL SPECIFICATIONS.
6. IF CALTRANS CLASS 2 PERMEABLE IS NOT AVAILABLE, SUBSTITUTE CLASS 3 PERMEABLE WITH AN OVERLYING 3" DEEP LAYER OF 3/4" (NO. 4) OPEN-GRADED AGGREGATE.
7. BIORETENTION SOIL MEDIA (BSM) SPECIFICATION PER BIORETENTION TECHNICAL SPECIFICATIONS.
8. PLANTING DESIGN AND IRRIGATION PER BIORETENTION TECHNICAL SPECIFICATIONS.
9. MULCH (OPTIONAL) PER BIORETENTION TECHNICAL SPECIFICATIONS.
10. LOCATE ENERGY DISSIPATION COBBLE ONLY AS SPECIFIED IN INLET DETAILS - AVOID DECORATIVE USE.

#### CONSTRUCTION NOTES

1. SCARIFY SUBGRADE BEFORE INSTALLING BIORETENTION AREA AGGREGATE AND BSM.
2. FACILITY EXCAVATION TO ALLOW FOR SPECIFIED SOIL AND MULCH DEPTHS TO ACHIEVE FINISHED ELEVATIONS ON CIVIL PLANS.
3. COMPACT EACH 6" LIFT OF BSM WITH LANDSCAPE ROLLER OR BY LIGHTLY WETTING. IF WETTING, ALLOW TO DRY OVERNIGHT BEFORE PLANTING.
4. DO NOT WORK WITHIN BIORETENTION AREA DURING RAIN OR UNDER WET CONDITIONS.
5. KEEP HEAVY MACHINERY OUTSIDE BIORETENTION AREA LIMITS.
6. LAYBACK SLOPE AS FLAT AS POSSIBLE UNTIL TOP WIDTH PRODUCES 1:1 SLOPE & 24" BOTTOM WIDTH. AS PLANTER GETS WIDER MAINTAIN 1:1 SLOPE AND INCREASE BOTTOM WIDTH WIDER THAN 24". ALTERNATIVE TRENCH WALL CONFIGURATIONS MAY BE PROPOSED BY THE PROJECT GEOTECHNICAL ENGINEER (I.E. VERTICAL SHORING, REINFORCED TRENCH SIDEWALL) THAT DON'T REQUIRE SIDEWALK SUPPORT FROM THE LIGHTLY COMPACTED BSM.



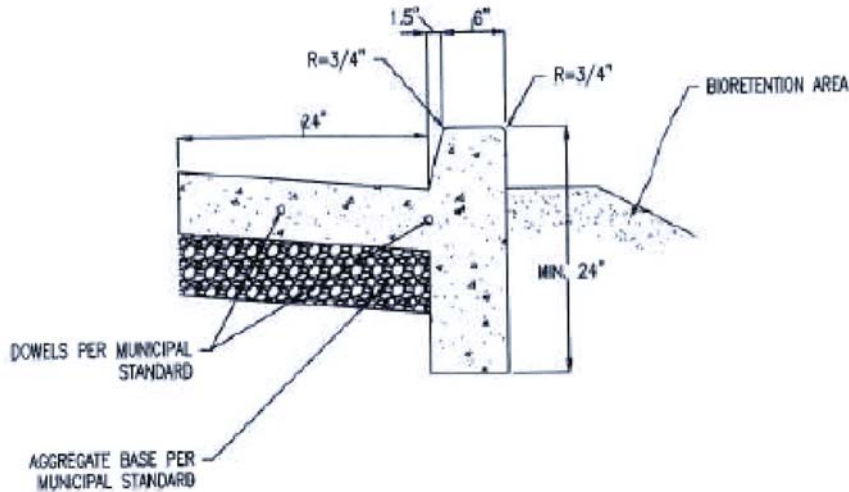
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## PARKING LOT BIORETENTION FACILITY

SLOPE SIDED, WITHOUT UNDERDRAIN

CITY OF REEDLEY

LID-4



#### DESIGN NOTES

1. SPECIAL DESIGN CONSIDERATION OR STRUCTURAL REVIEW MAY BE REQUIRED FOR LONGER PLANTER WALL SPANS. STEEL REINFORCEMENT OR ADDITIONAL CONCRETE CHECK DAMS MAY BE NEEDED FOR STABILITY.
2. EDGE CONDITION WILL VARY FOR NEW AND RETROFIT PROJECTS. CURB, GUTTER, AND WALL DETAILS MAY BE MODIFIED BY CIVIL AND GEOTECHNICAL ENGINEERS SUBJECT TO APPROVAL BY CITY ENGINEER.
3. CONCRETE AND EXPANSION JOINTS SHALL MEET THE REQUIREMENTS OF THE MUNICIPALITY.

#### CONSTRUCTION NOTES

1. FINISH ALL EXPOSED CONCRETE SURFACES.
2. LAYBACK SLOPE AS FLAT AS POSSIBLE UNTIL TOP WIDTH PRODUCES 1:1 SLOPE & 24" BOTTOM WIDTH. AS PLANTER GETS WIDER MAINTAIN 1:1 SLOPE AND INCREASE BOTTOM WIDTH WIDER THAN 24". ALTERNATIVE TRENCH WALL CONFIGURATIONS MAY BE PROPOSED BY THE PROJECT GEOTECHNICAL ENGINEER (I.E. VERTICAL SHORING, REINFORCED TRENCH SIDEWALL) THAT DON'T REQUIRE SIDEWALK SUPPORT FROM THE LIGHTLY COMPACTED BSM.



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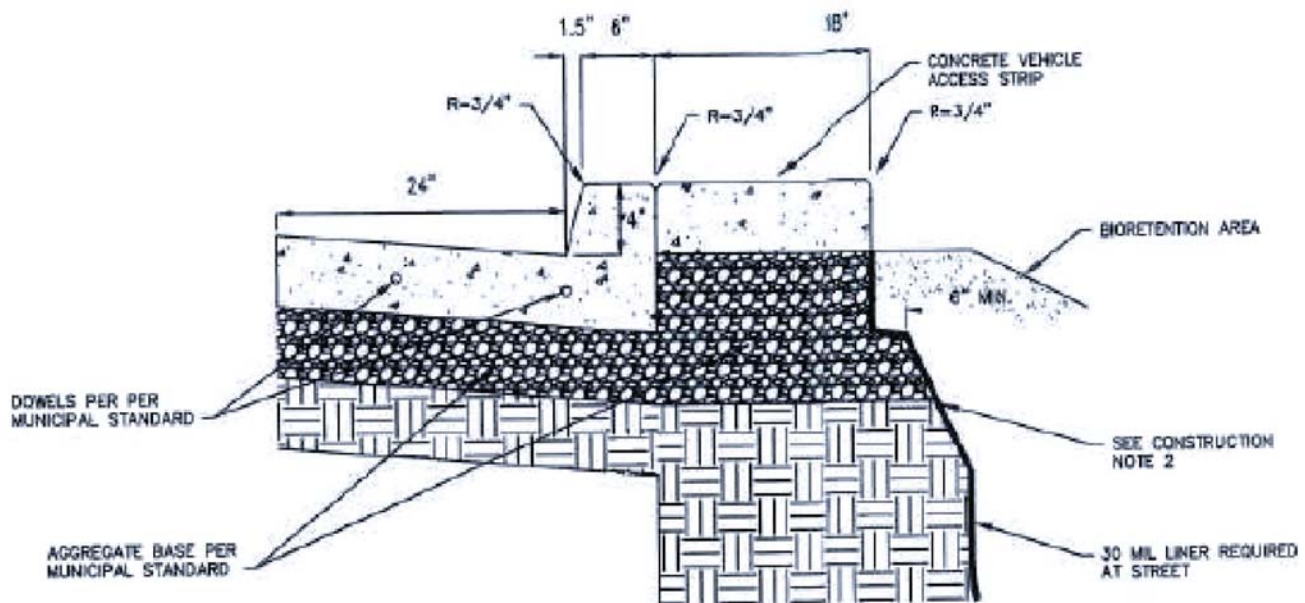
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## CURB AND GUTTER

*CITY OF REEDLEY*

**LID-5**



#### DESIGN NOTES

1. SPECIAL CONCRETE AND EXPANSION JOINTS SHALL MEET THE REQUIREMENTS OF MUNICIPAL STANDARDS
2. PROVIDE OPENINGS IN CURB (12" WIDE) TO ALLOW FOR SURFACE DRAINAGE TO BIORETENTION AREAS IF DEDICATED INLET NOT USED. SPACING TO BE DETERMINED BY PROJECT ENGINEER BASED ON DESIGN STORM TO MINIMIZE PONDING AGAINST CURB FOR MEDIAN ISLAND APPLICATION.

#### CONSTRUCTION NOTES

1. FINISH ALL EXPOSED CONCRETE SURFACES.
2. LAYBACK SLOPE AS FLAT AS POSSIBLE UNTIL TOP WIDTH PRODUCES 1:1 SLOPE & 24" BOTTOM WIDTH. AS PLANTER GETS WIDER MAINTAIN 1:1 SLOPE AND INCREASE BOTTOM WIDTH WIDER THAN 24". ALTERNATIVE TRENCH WALL CONFIGURATIONS MAY BE PROPOSED BY THE PROJECT GEOTECHNICAL ENGINEER (I.E. VERTICAL SHORING, REINFORCED TRENCH SIDEWALL) THAT DON'T REQUIRE SIDEWALK SUPPORT FROM THE LIGHTLY COMPACTED BSM.



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## CURB AND GUTTER

*CITY OF REEDLEY*

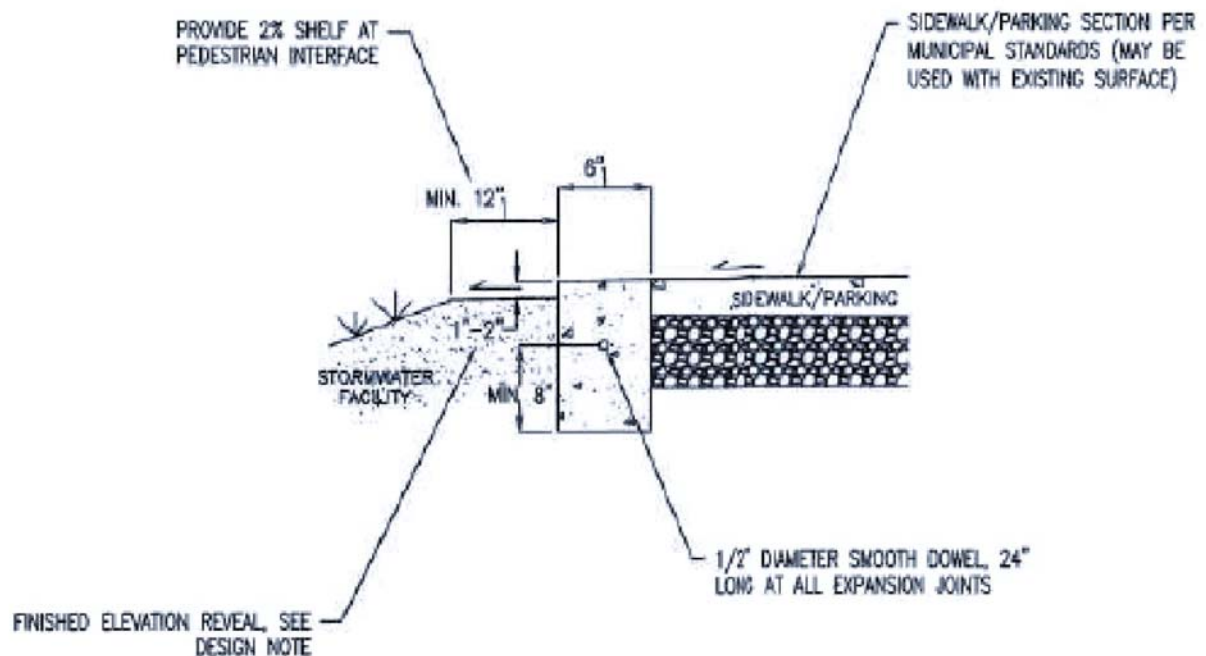
**LID-6**



LID-7







#### DESIGN NOTES

1. SPECIAL DESIGN CONSIDERATION OR STRUCTURAL REVIEW MAY BE REQUIRED FOR LONGER FACILITY EDGE SPANS. STEEL REINFORCEMENT OR ADDITIONAL CONCRETE CHECK DAMS MAY BE NEEDED FOR STABILITY.
2. EDGE CONDITION WILL VARY FOR PROJECTS. CURB DETAILS MAY BE MODIFIED BY CIVIL AND GEOTECHNICAL ENGINEERS SUBJECT TO APPROVAL BY CITY ENGINEER.
3. CONCRETE AND EXPANSION JOINTS SHALL MEET THE REQUIREMENTS OF THE CITY.
4. FINISHED ELEVATION REVEAL AT SIDEWALK - WHERE SIDEWALK CONVEYS SHEET FLOW TO FACILITY, A 1"-2" REVEAL SHOULD BE MAINTAINED BETWEEN SIDEWALK AND FACILITY FINISHED GRADE TO AVOID MULCH OR PLANT BUILDUP FROM BLOCKING FLOWS AND REDUCE DROP AT PEDESTRIAN INTERFACE.

#### CONSTRUCTION NOTES

1. FINISH ALL EXPOSED CONCRETE SURFACES.



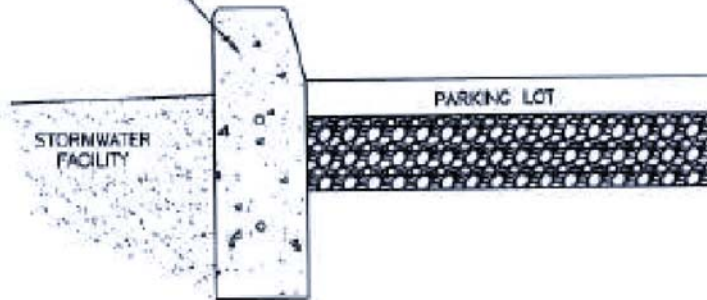
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## FLUSH CURB AT SIDEWALK

*CITY OF REEDLEY*

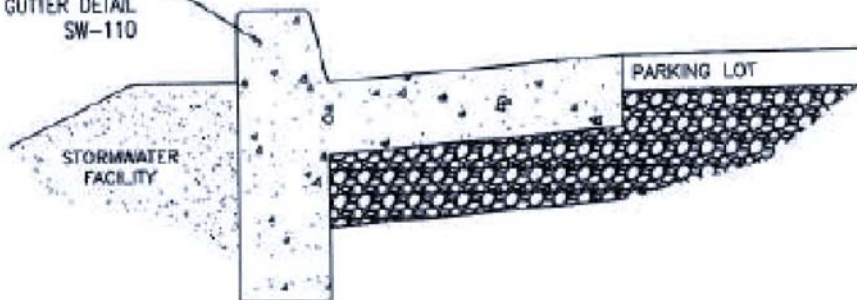
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DEEP CURB  
DETAIL SW-111



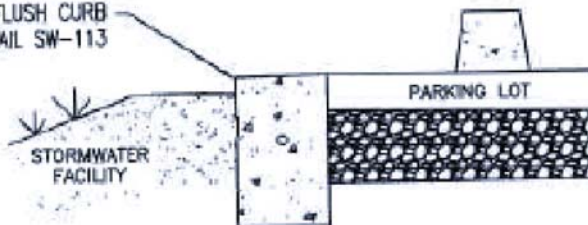
DEEP CURB

CURB AND  
GUTTER  
DETAIL  
SW-110



CURB AND GUTTER

FLUSH CURB  
DETAIL SW-113



FLUSH EDGE/WHEEL STOPS

**DESIGN NOTES**

1. WHEEL STOPS MAY BE USED ON NON-FLUSH DESIGNS TO KEEP CARS FROM OVERHANGING BIORETENTION FACILITY.
2. VEHICLE OVERHANG CAN BE USED TO REDUCE IMPERVIOUS PAVEMENT AREA.
3. WHERE VEHICLE OVERHANG IS UTILIZED SELECT LOW GROWING PLANTS THAT WILL TOLERATE SHADING.

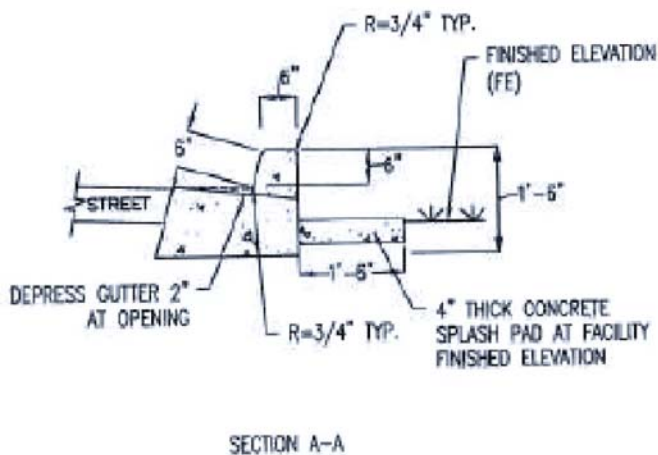
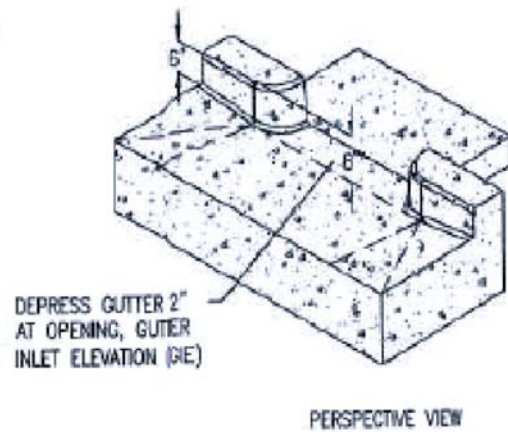
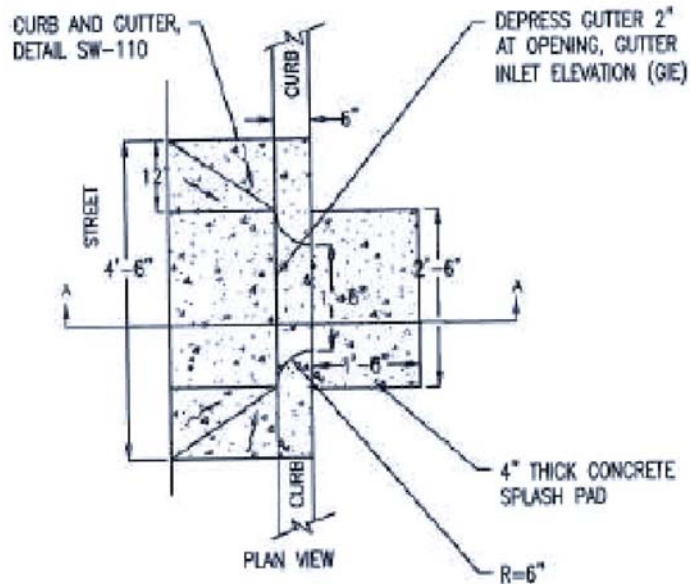


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**PARKING LOT  
EDGE OPTIONS**

*CITY OF REEDLEY*

**LID-10**



#### BIORETENTION DESIGN NOTES

1. FOR USE WITH STORMWATER FACILITIES WITH FLAT BOTTOMS.
2. PROVIDE SPOT ELEVATIONS ON PLANS (FE, OE, GIE, IE). SEE DETAIL SW-100.
3. CURB AND WALL DETAILS MAY BE MODIFIED BY CIVIL AND GEOTECHNICAL ENGINEERS SUBJECT TO APPROVAL BY CITY ENGINEER.
4. CURB HEIGHT MAY BE REDUCED TO 4-INCHES WHERE ADJACENT TO A SIDEWALK. SEE DETAILS SW-110 & SW-111.

#### CONSTRUCTION NOTES

1. AFTER CONSTRUCTION PLACE SAND BAGS AT GUTTER OPENINGS TO KEEP STORM FLOWS FROM ENTERING FACILITY UNTIL VEGETATION IS ESTABLISHED.



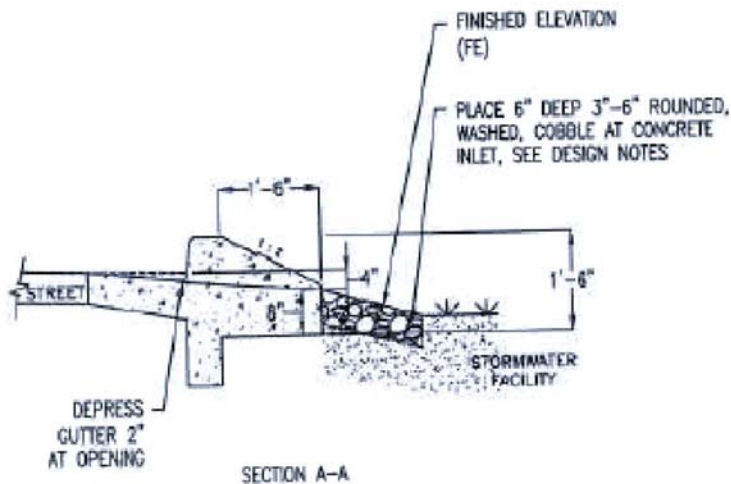
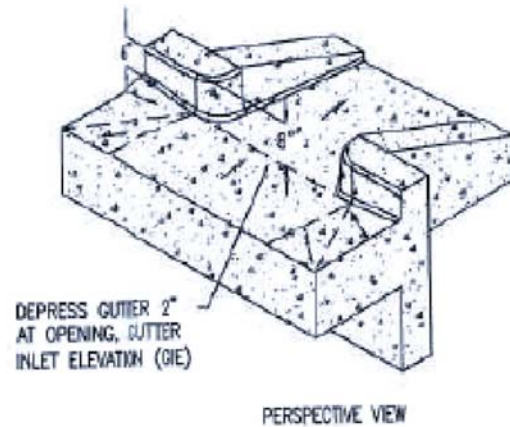
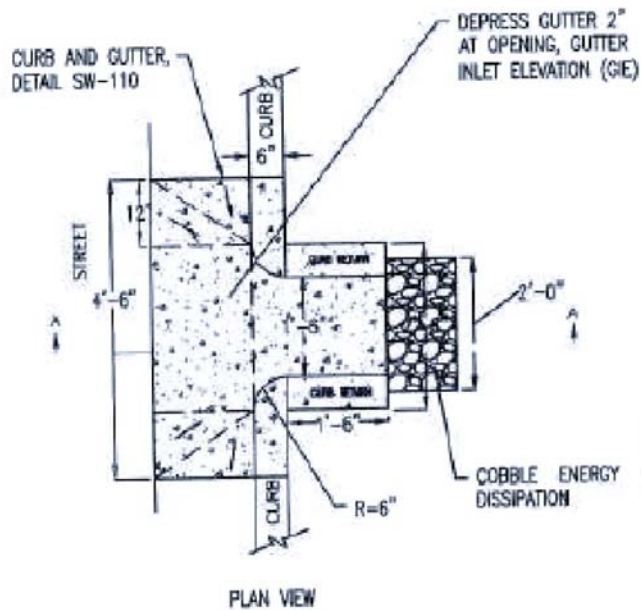
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## CURB CUT INLET FOR PLANTERS

*CITY OF REEDLEY*

**LID-11**





#### RETENTION DESIGN NOTES

1. FOR USE WITH STORMWATER FACILITIES WITH SIDE SLOPES.
2. PROVIDE SPOT ELEVATIONS ON PLANS (FE, OE, GIE, IE). SEE DETAIL SW-100.
3. CURB AND WALL DETAILS MAY BE MODIFIED BY CIVIL AND GEOTECHNICAL ENGINEERS SUBJECT TO APPROVAL BY CITY ENGINEER.
4. WHERE INLET FLOW VELOCITY IS HIGH, EXTEND COBBLE INTO FACILITY, BUT AVOID EXCESSIVE USE.
5. CURB HEIGHT MAY BE REDUCED TO 4-INCHES WHERE ADJACENT TO A SIDEWALK. SEE DETAILS SW-110 & SW-111.

#### CONSTRUCTION NOTES

1. AFTER CONSTRUCTION PLACE SAND BAGS AT GUTTER OPENINGS TO KEEP STORM FLOWS FROM ENTERING FACILITY UNTIL VEGETATION IS ESTABLISHED.



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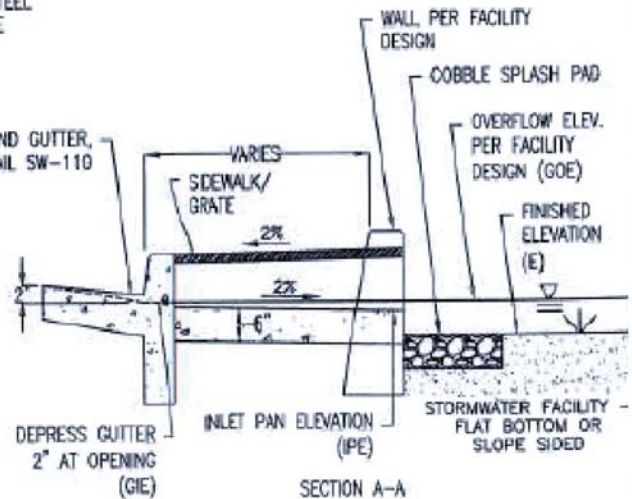
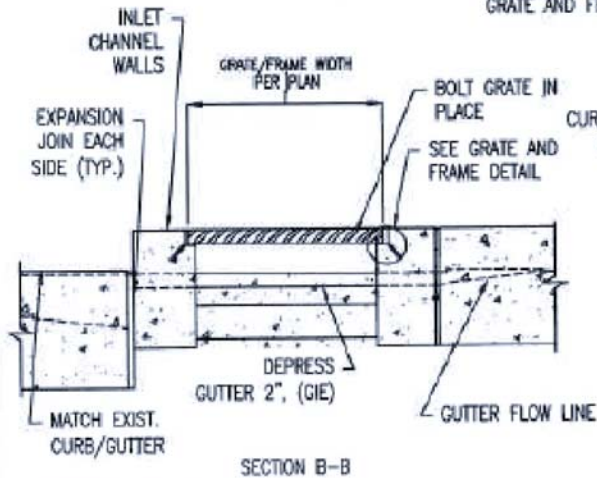
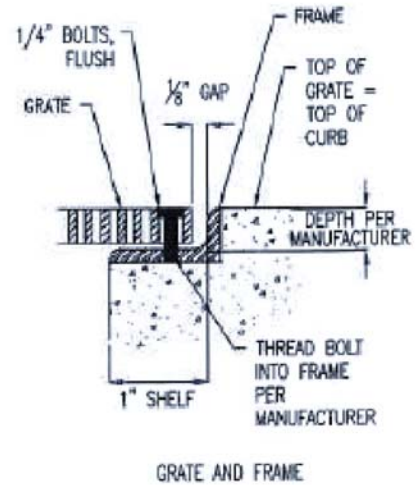
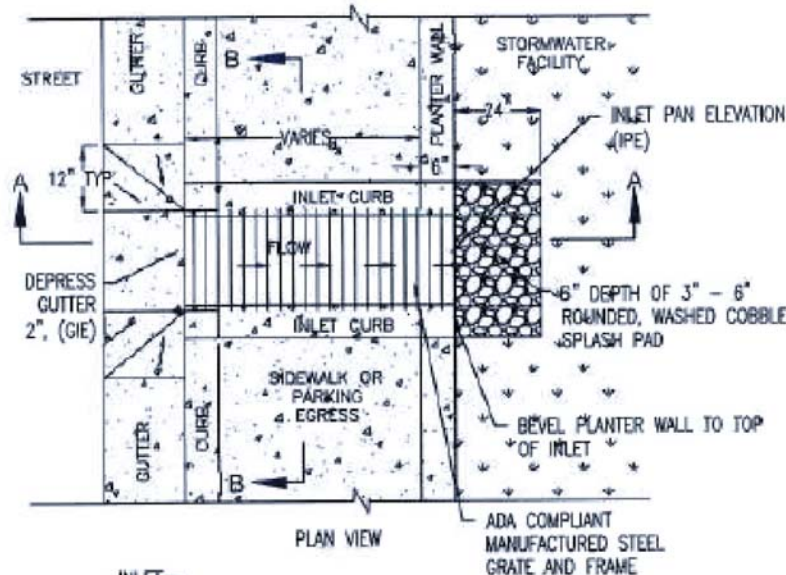
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## CURB CUT INLET FOR SIDE SLOPES

RAIN GARDEN OR SWALE

*CITY OF REEDLEY*

**LID-12**



#### BIORETENTION DESIGN NOTES

1. FOR USE WITH STORMWATER FACILITIES WITH SLOPED SIDES OR FLAT BOTTOMS.
2. PROVIDE SPOT ELEVATIONS ON PLANS (FE, OE, GIE, IPE). SEE DETAIL SW-100.
3. REFER TO MUNICIPAL STANDARD DRAWINGS AND MATCH GUTTER PAN OF ADJACENT CURB AND GUTTER.
4. IF SLOPED SIDES, WHERE INLET FLOW VELOCITY IS HIGH, EXTEND COBBLE INTO FACILITY, BUT AVOID EXCESSIVE USE.
5. BASE MATERIAL FOR CURB, GUTTER, AND SIDEWALK PER MUNICIPAL STANDARDS.

#### CONSTRUCTION NOTES

1. AFTER CONSTRUCTION PLACE SAND BAGS AT GUTTER OPENINGS TO KEEP STORM FLOWS FROM ENTERING FACILITY UNTIL VEGETATION IS ESTABLISHED.

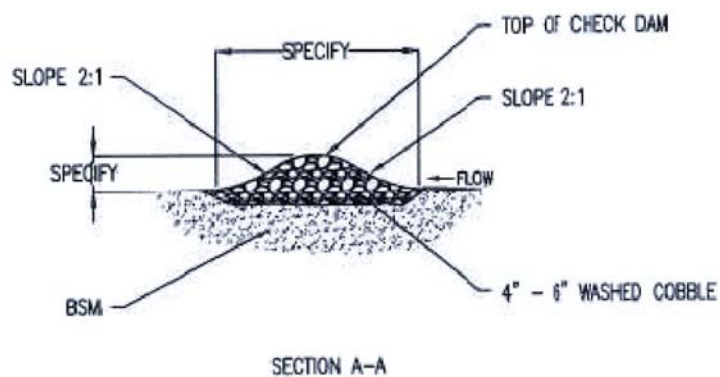
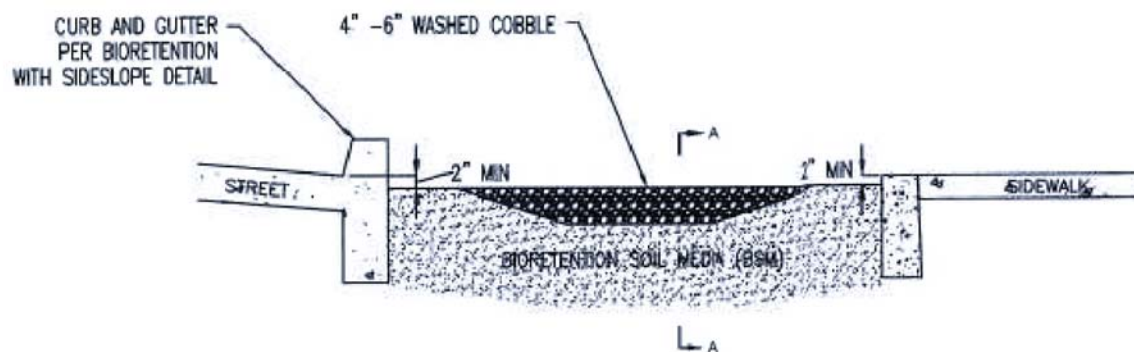


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## INLET WITH GRATE

CITY OF REEDLEY

LID-13



#### BIORETENTION DESIGN NOTES

1. FOR USE WITH STORMWATER FACILITIES WITH SLOPED SIDES.
2. BEST SUITED FOR FACILITIES WITH  $< \text{OF } \leq$  THAN 2% LONGITUDINAL SLOPE.
3. PROVIDE ELEVATIONS AND STATIONING AND/OR DIMENSIONING FOR CHECK DAMS.
4. SPACE CHECK DAMS TO MAXIMIZE PONDING ACROSS ENTIRE CELL.
5. ENSURE THAT CHECK DAM ELEVATIONS DO NOT CAUSE STORMWATER TO OVERFLOW TO SIDEWALK.

#### CONSTRUCTION NOTES

1. DO NOT WORK DURING RAIN OR UNDER WET CONDITIONS.
2. KEEP ALL HEAVY MACHINERY OUTSIDE BIORETENTION AREA LIMITS.



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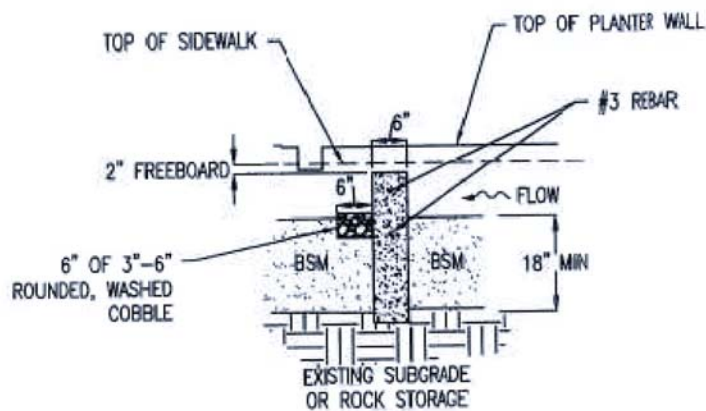
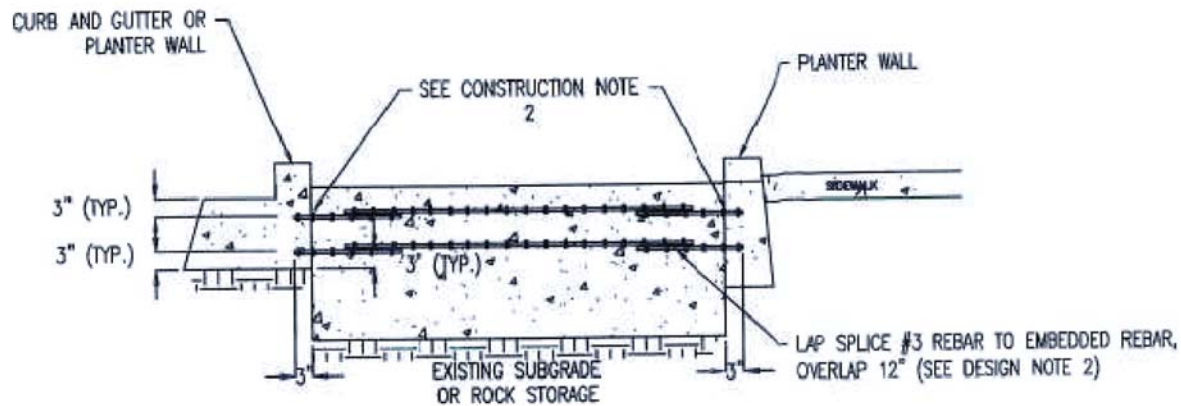
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## GRAVEL CHECK DAM

*CITY OF REEDLEY*

**LID-14**





#### BIORETENTION DESIGN NOTES

1. FOR USE WITH BIORETENTION PLANTERS OR SLOPED SIDED SWALES/RAIN GARDENS.
2. FOR CHECK DAMS LONGER THAN 12' SPECIFY REBAR OVERLAP LENGTH.
3. SPACE CHECK DAMS TO MAXIMIZE PONDING ACROSS CELLS.
4. PROVIDE ELEVATIONS AND STATIONING AND/OR DIMENSIONING FOR CHECK DAMS.
5. ENSURE THAT CHECK DAM ELEVATIONS DO NOT CAUSE STORMWATER TO OVERFLOW TO SIDEWALK.
6. SHOW PLANTER WALL EMBEDDED IN EXISTING SUBGRADE OR DRAINROCK.

#### CONSTRUCTION NOTES

1. EMBED #3 REBAR 3" INTO CURB AND PLANTER WALL.
2. DO NOT WORK DURING RAIN OR UNDER WET CONDITIONS.
3. KEEP ALL HEAVY MACHINERY OUTSIDE BIORETENTION AREA LIMITS.



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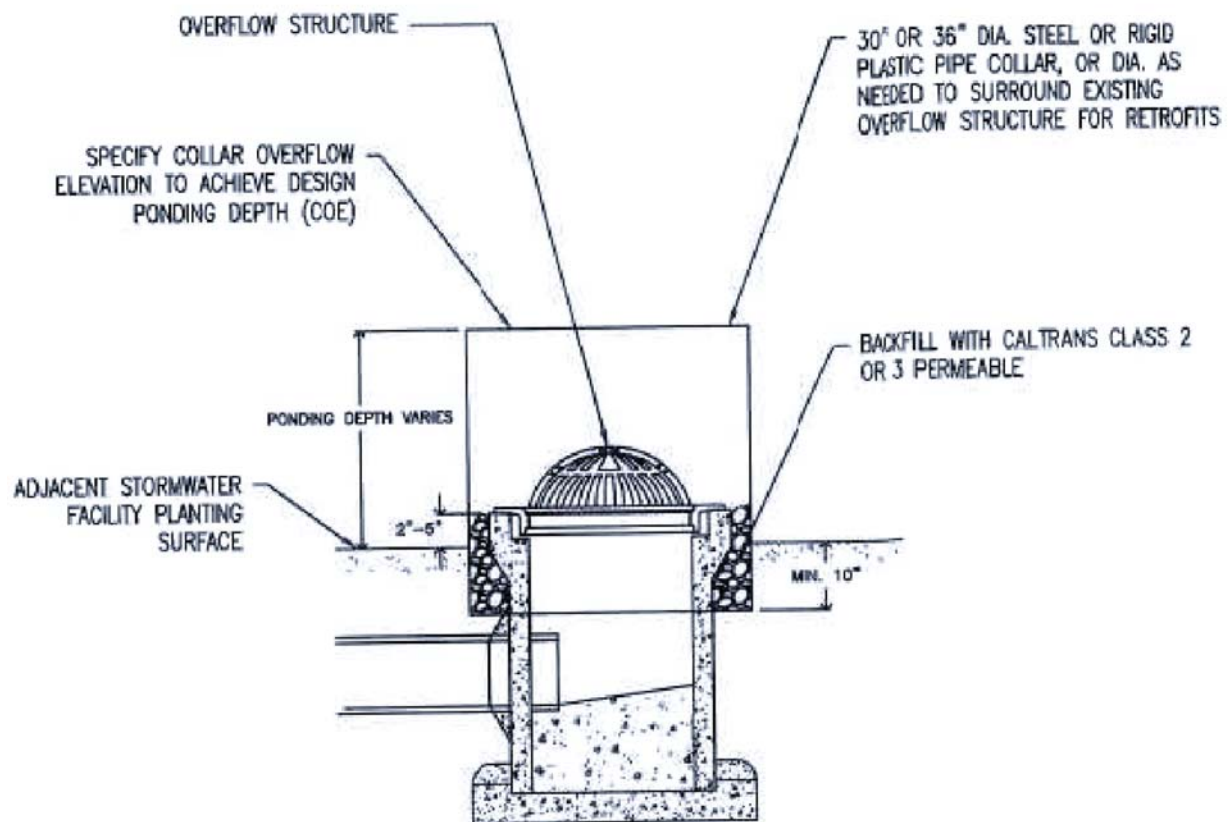
## CONCRETE CHECK DAM

*CITY OF REEDLEY*

**LID-15**







#### DESIGN NOTES

1. MAY BE USED IN CONJUNCTION WITH OVERFLOW STRUCTURES TO ALLOW FOR FIELD ADJUSTMENT OF OVERFLOW ELEVATION, OR AS RETROFIT TO CORRECT EXISTING STRUCTURE THAT DOES NOT ALLOW PONDING TO OCCUR.
2. PROVIDE COLLAR OVERFLOW ELEVATION (COE) ON PLANS.
3. PCC PIPE RISER EXTENSIONS MAY BE UTILIZED IN LIEU OF OVER FLOW STRUCTURE COLLAR.

#### CONSTRUCTION NOTES

1. CENTER COLLAR ON OVERFLOW GRATE.

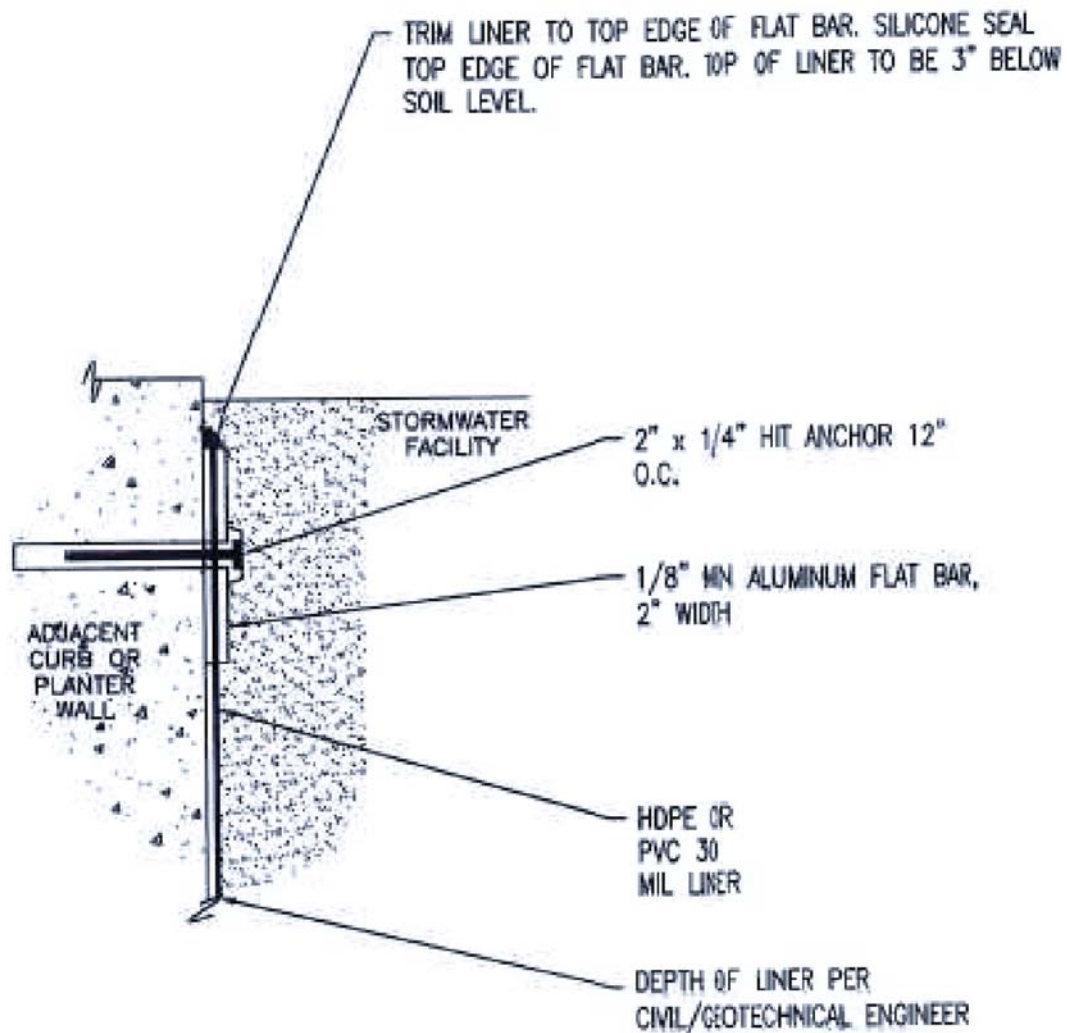


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## OVERFLOW STRUCTURE COLLAR

*CITY OF REEDLEY*

**LID-17**



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REF. STD. DWG.:

## IMPERMEABLE LAYER

*CITY OF REEDLEY*

**LID-18**





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## ZONE A LID RECOMMENDED PLANT LIST

GRASS/GRASSLIKE

**CITY OF REEDLEY**  
**LID-19**

**Bioreclamation Plant List**  
Plants for Zone A: Periodic inundation, area ponds following storm events (6" to 17" depth for 24 - 72 hours) and compost amended sand soil.

Scientific & Common Name	Height / Width	Light Preferences		Water Tolerances		CA Native	Sunset Climate Zones <sup>1</sup>	Notes
		Sun	Shade	Drought	Inundation			
GRASS / GRASSLIKE								
<i>Carex bartramia</i> Santa Barbara Sedge/ Basket Sedge	1-2' / 1'-2'	X	X		X	X	4 - 9, 14 - 23 all, but 1A-3A	Attracts butterflies, deer resistant, good for erosion control, can spread aggressively and should be sited carefully.
<i>Carex dimorpha</i> Berkeley Sedge	1' / spreading	X	X	X	X			Attractive blue-gray leaves. Can be mowed 4 in high to keep clean look.
<i>Carex fasciata</i> Blue Sedge	1' / spreading	X	X		X	X	3A - 9, 14 - 23	Attractive blue-gray leaves. Can be mowed 4 in high to keep clean look.
<i>Carex praegracilis</i> California Field Sedge	1' / spreading	X	X		X	X	all, but 1A -3A	Mounding, drought deciduous during summer months.
<i>Carex spicata</i> San Diego sedge	3 - 4' / 2 - 3'	X	X		X	X	all, but 1A-3A	Can handle foot traffic and is deer resistant.
<i>Chondropetalum heterotum</i> Small Cape Rush	2 - 3' / 3 - 4'	X	X	X	X		all, but 1A-3A and 7	Needs very little maintenance. If trimmed too much plant will lose visual integrity.
<i>Leymus aridensis</i> 'Canyon Prince' Canyon Prince Wild Rye	3'/3'	X	X		X	X	all, but 1A-3A	Tolerant of drought, poor soils, part shade and seasonal wet. Spreads by rhizomes, so nice planted in masses. Cut back annually in spring before new growth emerges.
<i>Juncus effusus</i> Common Rush	2 - 3' / clumping	X	X		X	X	all	Easy to grow & very reliable. Needs more water than <i>Juncus patens</i> .
<i>Juncus patens</i> 'Elk Blue' Elk Blue California Gray Rush	2' / clumping	X	X	X	X	X	all	Very little maintenance, handles dry summers and wet winters.
<i>Meibomia rigida</i> Deer Grass	2 - 3' / 3 - 6'	X	X	X	X	X	all, but 1A-3A	Can handle no watering, will stay green year round with watering, trim annually.
<i>Scirpus comus</i> Low Bulrush	3' / spreading	X	X		X		7 - 24	Grow individually or in mass, cut back once a year, very attractive.

<sup>1</sup> Refers to the Sunset Western Garden Book Zones [www.sunset.com/garden/climatezones/](http://www.sunset.com/garden/climatezones/)



SCALE:  
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MAR. 2020  
REF. STD. DWG.:

## ZONE A LID RECOMMENDED PLANT LIST

PERENNIALS

**CITY OF REEDLEY**  
**LID-20**

### Bioretention Plant List

Plants for Zone A: Periodic inundation, area ponds following storm events (6" to 12" depth for 24 - 72 hours) and compost amended sand soil.

Scientific & Common Name	Height / Width	Light Preferences			Water Tolerances		CA Native	Sunset Climate Zones <sup>1</sup>	Notes
		Sun		Shade	Drought	Inundation			
			Part						
PERENNIALS									
<i>Achillea millefolium californica</i> Yarrow	1 - 3' / 2'	X	X		X	X	X	all	Tolerates regular to no watering, foot traffic attracts butterflies, stress deciduous.
<i>Anemopsis californica</i> Yerba Mansa	1 - 2' / spreading	X	X			X	X	all, but 1A-3A	Mat forming ground cover, interesting white flowers, prune back in late summer, likes moist conditions.
<i>Bidens laevis</i> Joachim Sunflower	2 - 3' / 1 - 2'	X				X	X	all but 1A	Attracts beneficial insects, stress deciduous in summer, likes water but will survive drought if pruned back.
<i>Calliandra eriophylla</i> Fairy Duster	1 - 3' / 1 - 3'	X			X	X	X	10 - 24	Very attractive 1 - 2 inch pink flowers, little water after established, semi-evergreen, attracts butterflies and hummingbirds.
<i>Epipactis gigantea</i> Sierran Orchid	1 - 2' / 2 - 3'	X	X			X	X	all	Will go dormant during drought, interesting muted pink and yellow flowers.
<i>Eschscholzia californica</i> California Poppy	1 - 3' / 1 - 3"	X			X		X	all	Can handle periodic inundation, cut back yearly to prevent it from becoming weedy.
<i>Iris douglasiana</i> Douglas Iris	1 - 2' / spreading	X	X			X	X	all, but 1A-3A	Needs moisture or shade inland, does well on coast, evergreen leaves, attractive lavender-blue flowers in Spring.
<i>Lilium pardalinum</i> Leopard Lily	3 - 8' / 6'	X	X			X	X	2-7, 14-17	Attractive red-orange spotted blossoms in spring, needs regular water, will get large in moist, partial shade conditions.
<i>Lobelia cardinalis</i> Cardinal Flower	2 - 3' / 2'	X	X	X		X	X	1-7, 14-17	A bog plant, attracts hummingbirds, showy scarlet flowers.
<i>Mimulus cardinalis</i> Scarlet Monkey Flower	1 - 3' / 1 - 3'	X	X	X	X	X	X	all but 1A	Year round red color with regular water, attracts hummingbirds, reseeds itself & should not be used for small spaces.
<i>Mimulus guttatus</i> Suep Monkey Flower	1 - 3' / 1 - 3'	X	X			X	X	all but 1A	Yellow flowers are abundant in spring-summer, attracts butterflies, will die back in drought and come back following year.
<i>Rudbeckia californica</i> California Coneflower	2 - 5' / 1 - 2'		X		X	X	X	all	Yellow showy flowers late summer and fall, cut back in winter, can get large under ideal conditions and may require pruning.
<i>Salvia spaldiana</i> Hummingbird Sage	1 - 3' / spreading		X	X	X	X	X	all, but 1A-3A	Very attractive foliage and flowers, fragrant, attracts hummingbirds, deer resistant, likes to grow in understory of trees.
<i>Sisyrinchium bellum</i> Blue-Eyed Grass	6" - 1' / 6" - 1'	X			X		X	all, but 1A-3A	Requires little to no maintenance. Summer dormant, will come back during wetter months on it's own. Can irrigate to prolong flowering.
<i>Solidago californica</i> California Goldenrod	1 - 3' / 2 - 3'	X	X	X	X	X	X	all, but 24	Attracts beneficial insects and butterflies. Attractive yellow flowering inflorescences in summer and fall. Dormant in winter, cut back to ground.

<sup>1</sup> Refers to the Sunset Western Garden Book Zones [www.sunset.com/garden/climatezones/](http://www.sunset.com/garden/climatezones/)








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## ZONE A LID RECOMMENDED PLANT LIST

SHRUBS/TREES

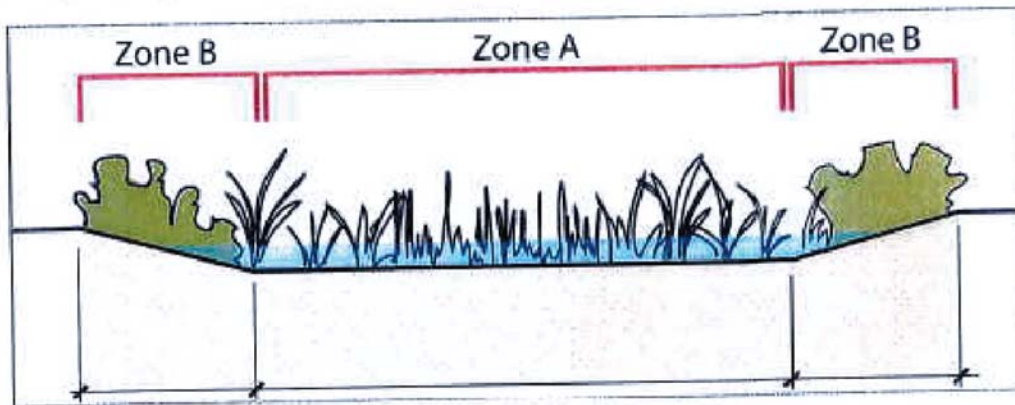
CITY OF REEDLEY  
LID-21

Bioretention Plant List  
Plants for Zone A: Periodic inundation, area ponds following storm events (6" to 12" depth for 24 - 72 hours) and compost amended sand soil.

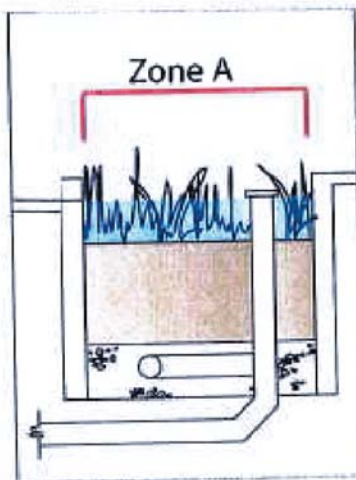
Scientific & Common Name	Height / Width	Light Preferences		Water Tolerances		CA Native	Sunset Climate Zones <sup>1</sup>	Notes
		Sun	Shade	Drought	Inundation			
SHRUBS / SHRUBS								
 <i>Baccharis pilularis</i> Coyote Brush	wide variation	X		X	X	X	all, but 1A-3A	Adaptable evergreen shrub, provides quick cover and bank stabilization, tolerant of coastal conditions, alkaline soil, sand, clay and seasonal wet, dwarf (low growing) varieties available.
<i>Zauschneria californica</i> 'Catalina' Island California Fuchsia	1 - 3' / 2 - 3'	X	X	X	X	X	All but 1A	Likes moisture but will survive through drought, attractive red flowers that hummingbirds like. This species is hardier and flowers last longer.
<i>Zauschneria californica</i> 'Uvas Canyon' San Jose California Fuchsia	2 - 3' / spreading	X	X	X	X	X	All but 1A	Gray foliage, attractive red-orange flowers, very showy in late fall. Full sun with regular watering or along coast. Can be mowed to look like lawn.
LARGE SHRUBS / TREES								
 <i>Ascalinus californica</i> California Buckeye	15'	X	X	X	X	X	all but 1A-2A	Small tree that has fragrant white panicles April - May. Needs regular water for the first 2 years. Interesting form throughout all seasons. Good for native bee population.
<i>Amorpha californica</i> California False Indigo Bush	6' / spreading	X	X	X	X	X	all, but 1A - 3A	Large shrub, with fragrant purple flowers. Needs no water after established. Provides larval food for California State butterfly.
<i>Cercis occidentalis</i> Western Redbud	3 - 16' / 3 - 16'	X	X	X	X	X	all but 1A	Needs winter chill to set flowers properly. Abundant amount of flowering purple-pink flowers in spring. Can be pruned to tree or left as shrub.
<i>Cornus californica</i> California Dogwood	3 - 10' / 3 - 10'		X	X	X	X	all, but 1A - 3A	Attractive red branching stems with red deciduous leaves in winter. Good for erosion control. Showy white blossoms in spring.
<i>Garrya elliptica</i> 'James Roof' Silk Tassel	10 - 15'	X	X	X	X	X	all, but 1A - 3A	Drought tolerant where rainfall exceeds 20." Evergreen shrub - tree with hanging white catkins.
<i>Sambucus mexicana</i> Tapiro, Blue Elderberry	6 - 15'	X	X	X	X	X	all but 1A	Deciduous shrub that can be pruned to a tree. Can handle extreme drought after first years. Needs maintenance to upkeep appearance. Attractive yellow flowers and edible blue berries. Great for ecosystem rehabilitation.
 <i>Spiraea douglasii</i> Western Spirea	4 - 5'	X	X	X	X	X	all	Deciduous shrub, fast growing. Attractive pink clustered flowers summer to early fall. Drought tolerant once established. Very adaptable.

1 Refers to the Sunset Western Garden Book Zones [www.sunset.com/garden/climatezones/](http://www.sunset.com/garden/climatezones/)

**Varying slope and ponding levels:** Varying slope and ponding levels: This bioretention planting area has sloped edges. Plants in the bottom area will be inundated during storms (**Zone A**). Those planted on the sideslopes are above the level of ponding, but will experience seasonally wet conditions (**Zone B**).



**Uniform surface grade:** This stormwater planter has a flat bottom with consistent depth of ponding across the structure. All of the plants selected for this design must be tolerant of periodic inundation (**Zone A**).



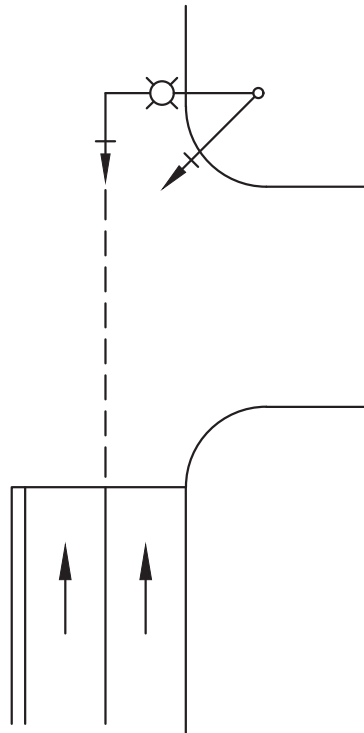
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## PLANTING INUNDATION ZONES

*CITY OF REEDLEY*

**LID-22**





LEGEND:

- — — PREFERRED PLACEMENT
- ⊥ PERMISSIVE SIGNAL INDICATION
- ⊗ LUMINAIRE (SAFETY LIGHT)



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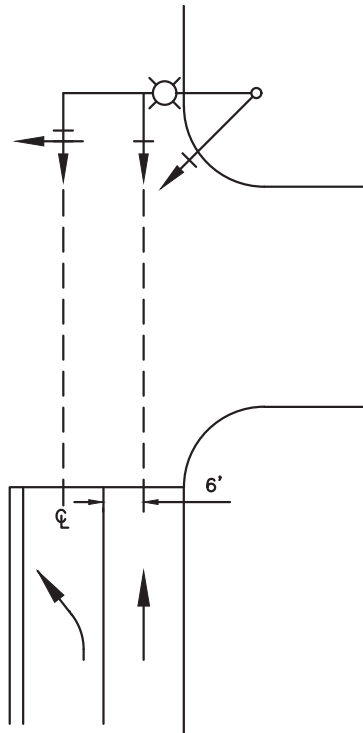
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**TRAFFIC SIGNAL HEAD  
LOCATIONS**

2 THROUGH LANES ONLY

*CITY OF REEDLEY*

**TS-1**



LEGEND:

- — — PREFERRED PLACEMENT
- ↓ PERMISSIVE SIGNAL INDICATION
- ← ↓ PROTECTED LEFT-TURN SIGNAL INDICATION
- ⊗ LUMINAIRE (SAFETY LIGHT)



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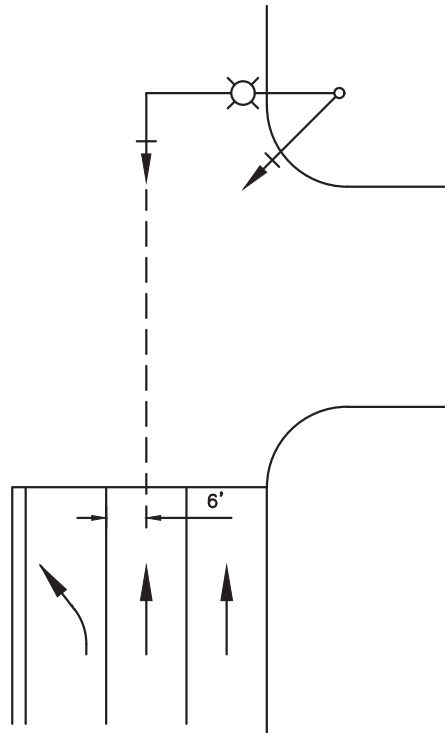
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**TRAFFIC SIGNAL HEAD  
LOCATIONS**

1 THROUGH LANE & SEPARATE  
PROTECTED LEFT TURN LANE

*CITY OF REEDLEY*

**TS-1A**



LEGEND:

- — — PREFERRED PLACEMENT
- ⊥  
↓ PERMISSIVE SIGNAL INDICATION
- ⊗ LUMINAIRE (SAFETY LIGHT)



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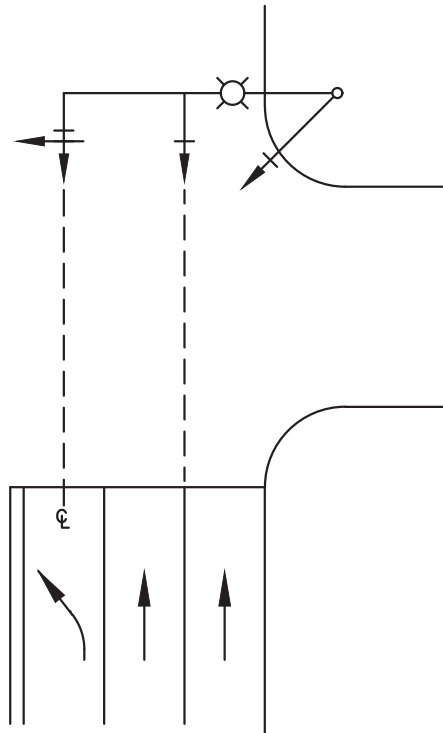
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**TRAFFIC SIGNAL HEAD  
LOCATIONS**  
2 THROUGH LANE WITH  
UNPROTECTED LEFT TURN LANE

*CITY OF REEDLEY*

**TS-1B**



LEGEND:

- — — PREFERRED PLACEMENT
- ↓ PERMISSIVE SIGNAL INDICATION
- ←↓ PROTECTED LEFT-TURN SIGNAL INDICATION
- ⊗ LUMINAIRE (SAFETY LIGHT)



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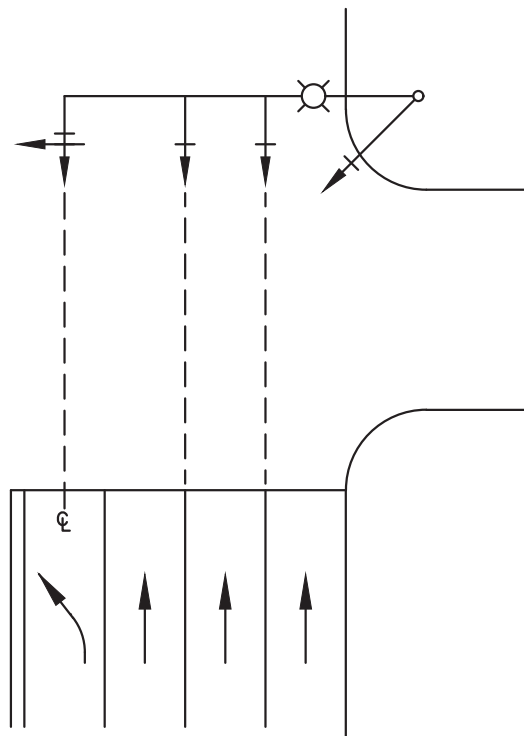
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**TRAFFIC SIGNAL HEAD  
LOCATIONS**

2 THROUGH LANES WITH  
PROTECTED LEFT TURN LANE

*CITY OF REEDLEY*

**TS-1C**



LEGEND:

- — — PREFERRED PLACEMENT
- ↓  
+ PERMISSIVE SIGNAL INDICATION
- ←  
+ PROTECTED LEFT-TURN SIGNAL INDICATION
- ⊗ LUMINAIRE (SAFETY LIGHT)



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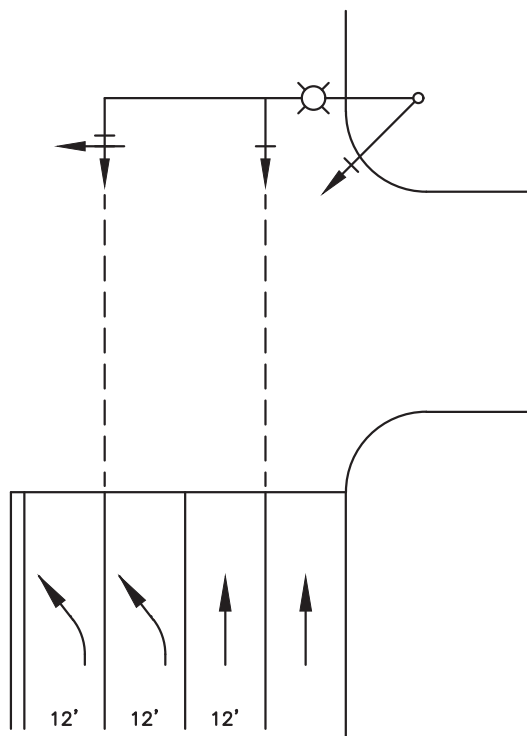
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**TRAFFIC SIGNAL HEAD  
LOCATIONS**

3 THROUGH LANES WITH  
PROTECTED LEFT TURN LANE

*CITY OF REEDLEY*

**TS-1D**



LEGEND:

- — — PREFERRED PLACEMENT
- ↓ PERMISSIVE SIGNAL INDICATION
- ← ↓ PROTECTED LEFT-TURN SIGNAL INDICATION
- ⊗ LUMINAIRE (SAFETY LIGHT)



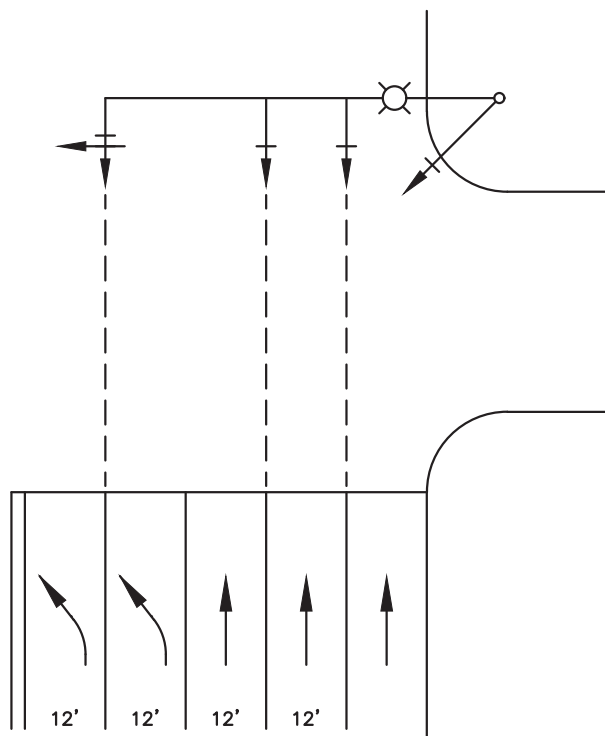
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MAR. 2020  
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**TRAFFIC SIGNAL HEAD  
LOCATIONS**  
2 THROUGH LANES WITH  
2 PROTECTED LEFT TURN LANE

*CITY OF REEDLEY*

**TS-1E**





# LEGEND:

- — — PREFERRED PLACEMENT
- ↓ PERMISSIVE SIGNAL INDICATION
- ← ↓ PROTECTED LEFT-TURN SIGNAL INDICATION
- ⊗ LUMINAIRE (SAFETY LIGHT)



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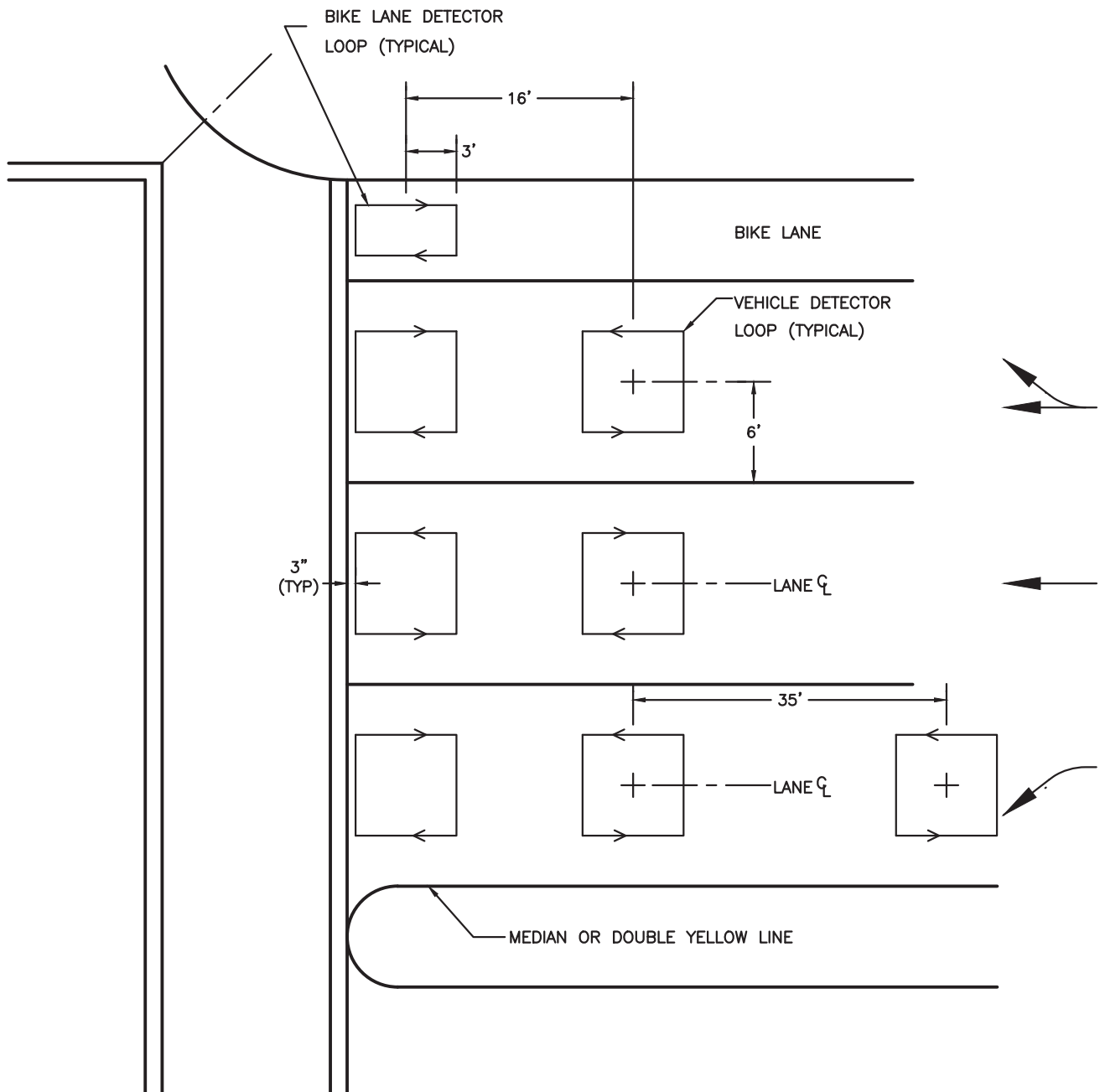
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## TRAFFIC SIGNAL HEAD LOCATIONS 3 THROUGH LANES WITH 2 PROTECTED LEFT TURN LANE

*CITY OF REEDLEY*

**TS-1F**



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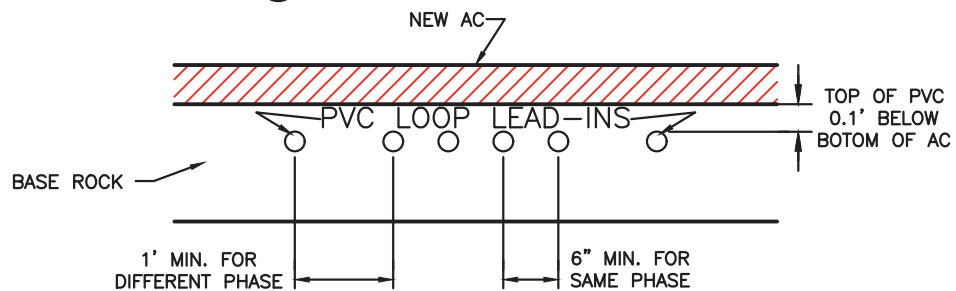
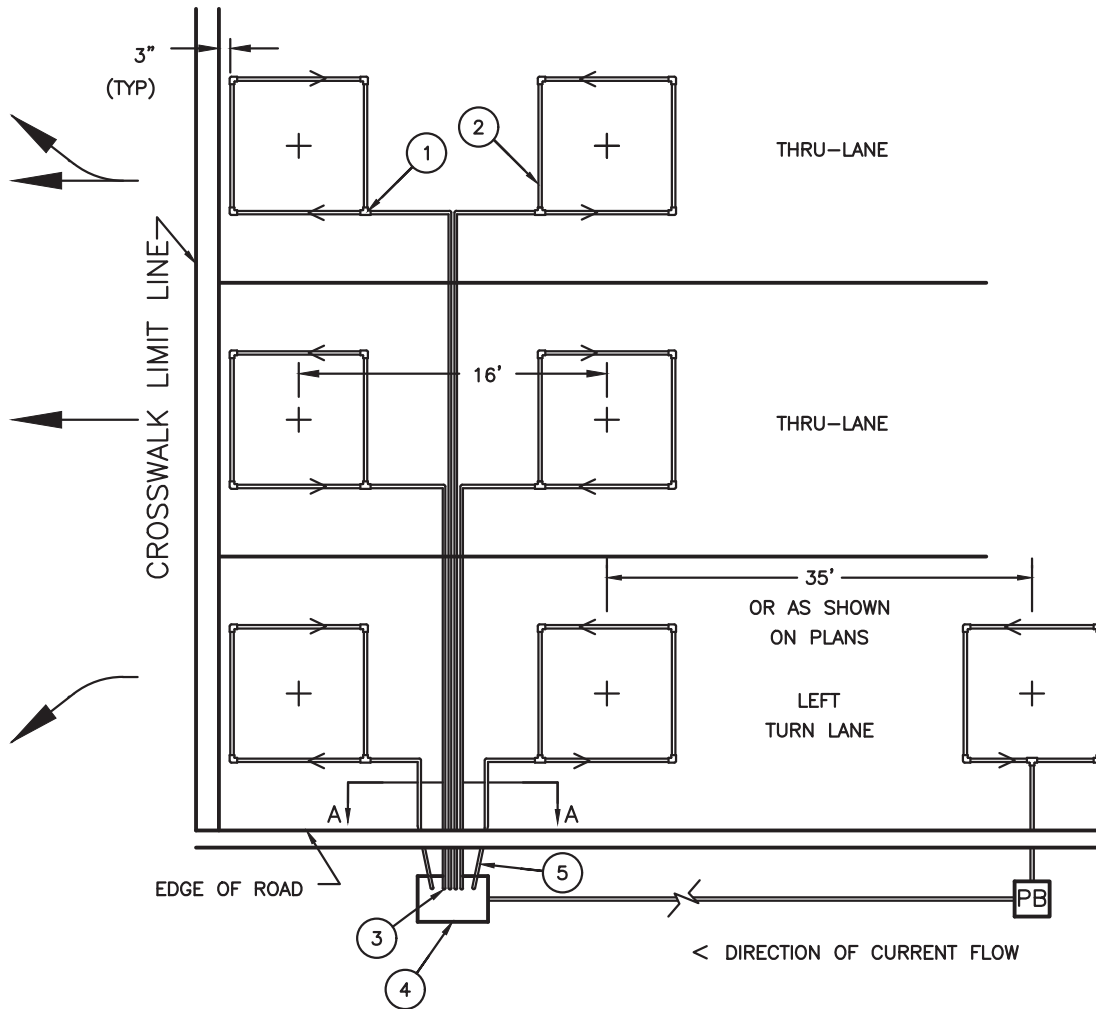
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## LOOP DETECTOR PLACEMENT

*CITY OF REEDLEY*

**TS-2**

- ① 3/4" PVC SCH.40 CONDULET. COVER SHALL BE ON TOP (TYP).
- ② 3/4" PVC SCH.40 CONDUIT & LARGE RADIUS ELS.
- ③ SUPPLY & INSTALL BUSHINGS ON ALL CONDUITS.
- ④ PER STD. SPECS, PULL BOX No.6 W/EXT. OR AS NOTED ON PLANS.
- ⑤ TWIST CONDUCTORS 2 TURNS PER FOOT FROM CONDULET TO PULL BOX IN ALL PVC LEAD-IN CONDUITS.



SECTION A-A

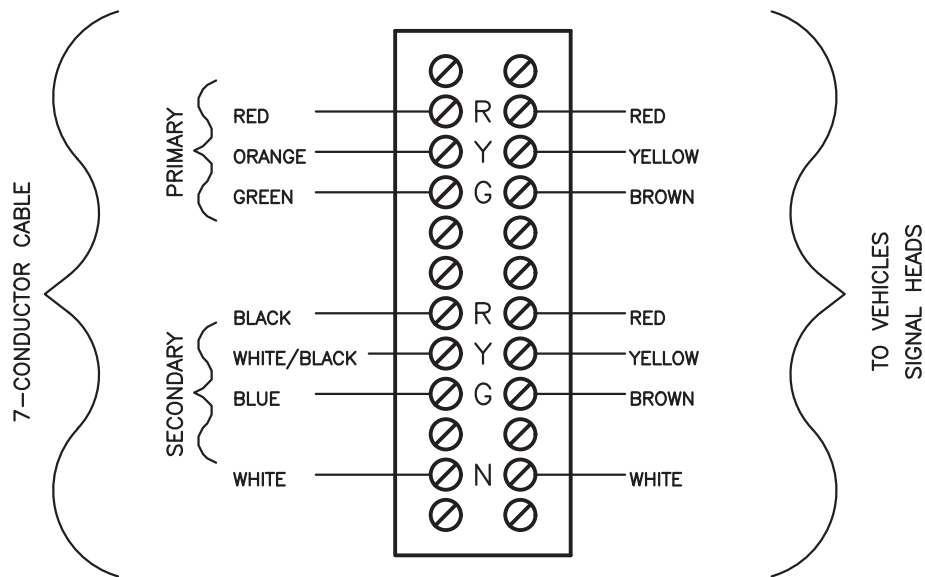


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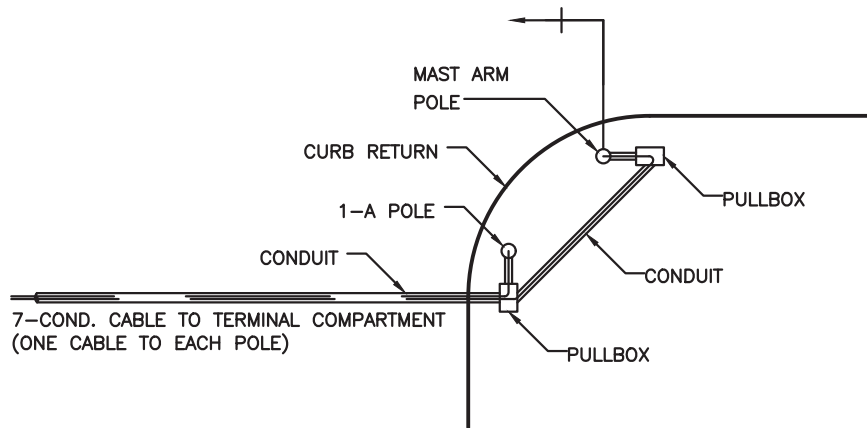
## LOOP DETECTOR PLACEMENT

CITY OF REEDLEY

TS-2A



VEHICLE TERMINAL COMPARTMENT



TYPICAL CORNER CONNECTIONS

NOTES:

1. INSTALL SINGLE CONDUCTOR COLOR CODED #14 THWN COPPER WIRE BETWEEN TERMINAL STRIP & EACH SIGNAL ASSEMBLY & CONNECT.
2. THE CABLES THAT COMPRISE A SIGNAL PHASE SHALL HAVE AN IDENTIFICATION BAND PLACED NEAR THE END OF TERMINATION POINTS & IN EVERY PULL BOX. THE IDENTIFICATION BAND SHALL BE A 3/8" PLASTIC STRIP & INSTALLED WITH NON-FERROUS PERMANENT FASTENER. ALL CABLES SHALL BE LABELED PER PHASING SHOWN ON PLANS.

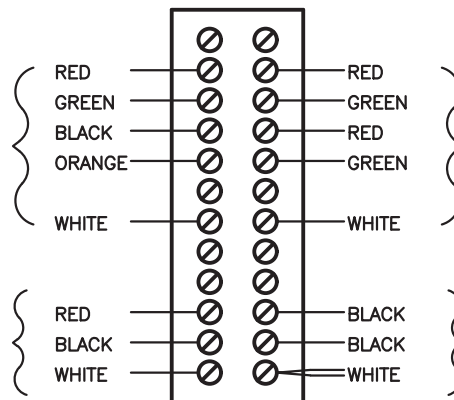


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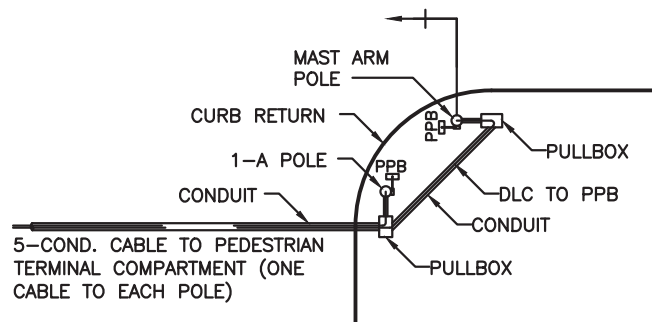
VEHICLE SIGNAL  
TERMINAL LOCATION

*CITY OF REEDLEY*

TS-3



TERMINAL STRIP



TYPICAL CORNER CONNECTIONS

NOTES:

1. INSTALL SINGLE CONDUCTOR COLOR CODED #14 THWN COPPER WIRE BETWEEN TERMINAL STRIP & EACH SIGNAL ASSEMBLY & CONNECT.
2. THE CABLES THAT COMPRISE A SIGNAL PHASE SHALL HAVE AN IDENTIFICATION BAND PLACED NEAR THE END OF TERMINATION POINTS & IN EVERY PULL BOX. THE IDENTIFICATION BAND SHALL BE A 3/8" PLASTIC STRIP & INSTALLED WITH NON-FERROUS PERMANENT FASTENER. ALL CABLES SHALL BE LABELED PER PHASING SHOWN ON PLANS.

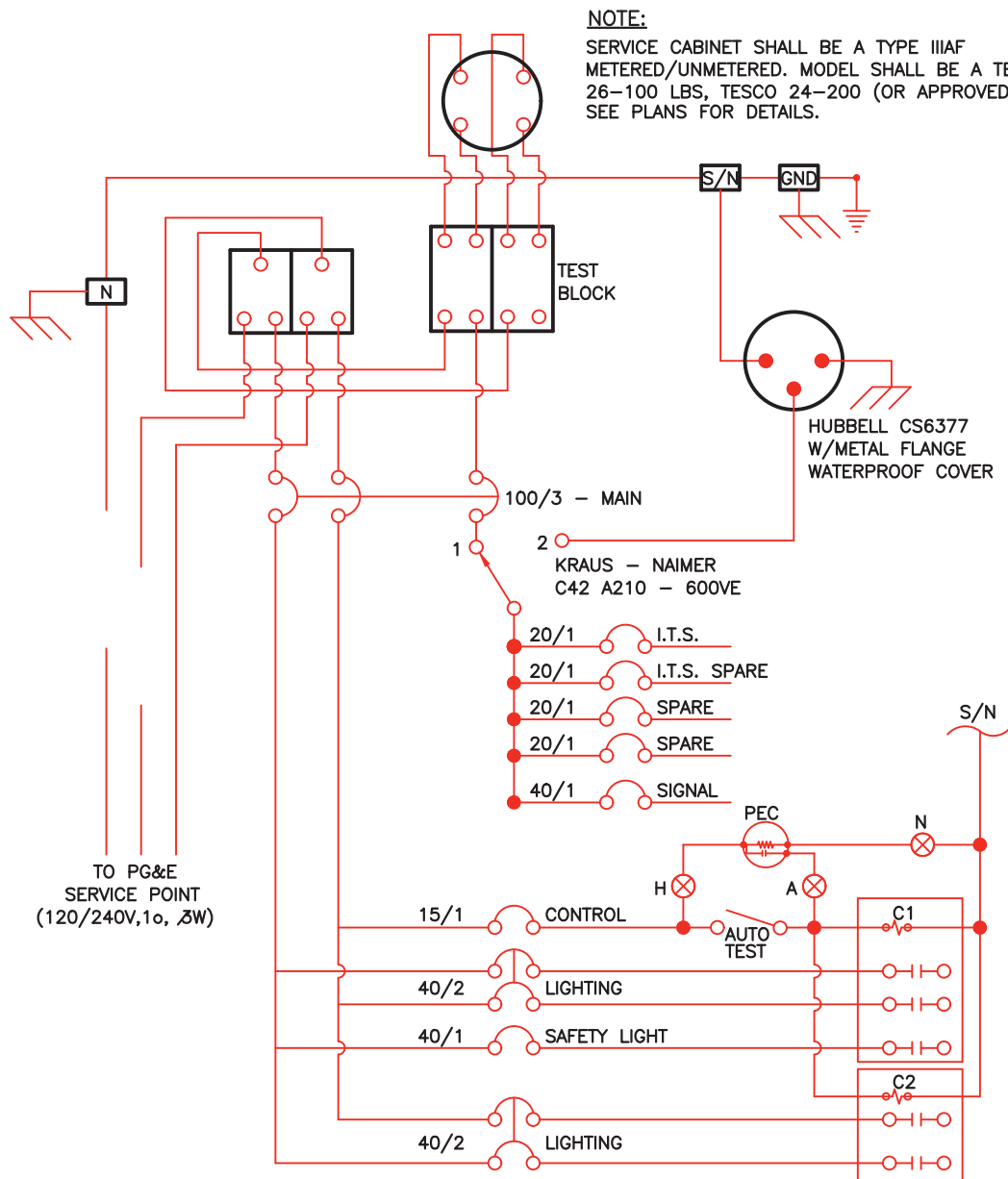


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REF. STD. DWG.:

PEDESTRIAN SIGNAL  
TERMINAL LOCATIONS

*CITY OF REEDLEY*

TS-3A



SERVICE PEDESTAL SCHEMATIC

20A	20A	20A	20A	15A	40A	40A	40A	40A	100A
SPARE	SPARE	I.T.S. SPARE	I.T.S.	CONTROL	LIGHTING	LIGHTING	SAFETY LIGHT	SIGNAL	MAIN

SWITCH LOCATION



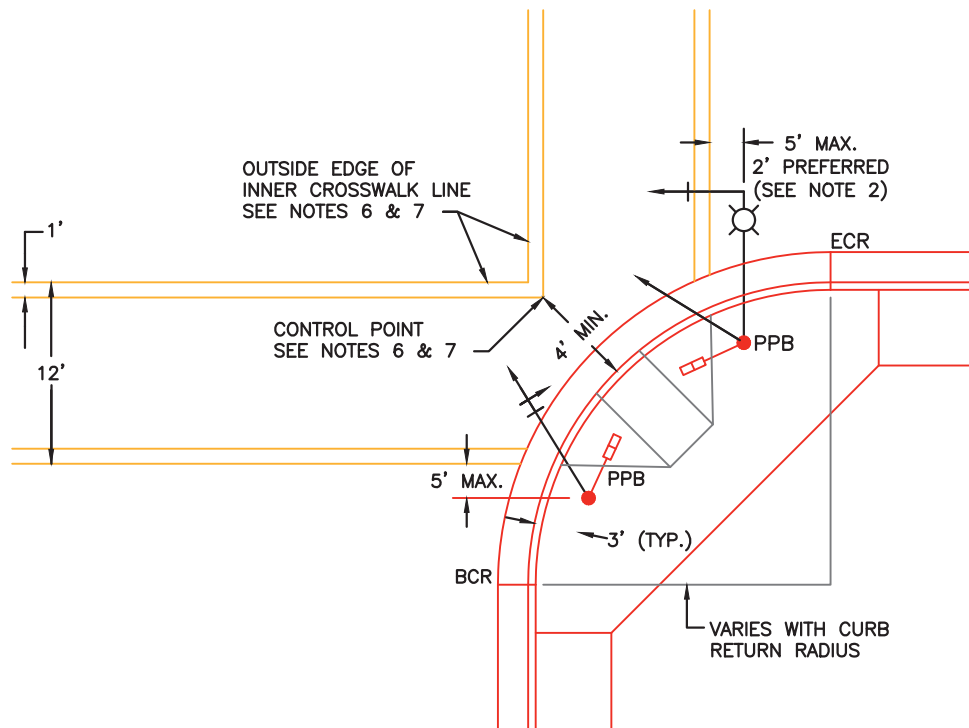
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## SERVICE PEDESTAL SCHEMATIC

*CITY OF REEDLEY*

**TS-4**





#### NOTES:

1. PEDESTRIAN PUSH BUTTONS ON SEPARATE POSTS WHERE REQUIRED. PPB SHALL BE MOUNTED ON "PEDESTRIAN PUSH BUTTON POST" PER CALTRANS STD. DWG ES-7A. DO NOT USE "COMBINED" POST UNLESS SPECIFIED.
2. SIGNAL STANDARD SHALL BE USED FOR PEDESTRIAN PUSH BUTTONS WITHIN 5 FEET FROM THE CROSSWALK AREA. IF STANDARD IS MORE THAN 5 FEET FROM A CROSSWALK, A PPB SHALL BE INSTALLED AS SHOWN ON PLANS.
3. PEDESTRIAN PUSH BUTTONS SHALL BE PLACED ON CROSSWALK SIDE OF STANDARD OR POST.
4. CROSSWALK AREA OF THE SIDEWALK SHOULD BE KEPT CLEAR OF POLES.
5. WHERE CURB RETURN RADIUS EXCEEDS 10 FEET, SIGNAL FACES SHOULD BE SPLIT OR LOCATED ON SEPARATE STANDARDS SO THAT GOOD VISIBILITY OF RIGHT AND FAR LEFT SIGNALS ARE PROVIDED FOR ALL APPROACHES.
6. MAINTAIN A MINIMUM CLEAR SIDEWALK WIDTH OF 48 INCHES FOR WHEELCHAIRS.
7. CURB RETURNS WITH A RADIUS OF LESS THAN 15 FEET: LINE UP OUTSIDE EDGE OF INNER CROSSWALK LINE WITH FACE OF CURB.
8. CURB RETURNS WITH A RADIUS OF 15 FEET OR MORE: LOCATE CENTER OF CURB RETURN. MEASURE 4 FEET TOWARDS CENTER OF INTERSECTION TO LOCATE CONTROL POINT. LINE UP THE CROSSWALK WITH THE CONTROL POINT AS INDICATED ABOVE.

#### LEGEND:

- VEHICLE SIGNAL HEAD
- +○ VEHICLE SIGNAL HEAD WITH BACKPLATE
- +○ VEHICLE SIGNAL HEAD WITH ARROWS
- PEDESTRIAN SIGNAL HEAD
- LUMINAIRE
- PPB PEDESTRIAN PUSH BUTTON
- PPB ON POST



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REF. STD. DWG.:

## TRAFFIC SIGNAL INSTALLATION

*CITY OF REEDLEY*

**TS-5**

TS-5A