List of Standard Plans – Streets and Storm Drains

Standard Street Notes	ST-09
Street & Right of Way Guidelines (Residential 80 or more dwelling units)	ST-10
Street & Right of Way Guidelines (Residential less than 80 dwelling units)	ST-11
Standard Cross Sections for Residential Streets	ST-12
Standard Utility Locations	ST-13
Fire Apparatus Access Road Requirements for Private Streets	ST-14
Street Barricade	ST-15
Bike Path Access Detail	ST-18
Curb & Curb/Gutter Sections	ST-20
Curb Line Sidewalk	ST-22A
Curb Property Line Sidewalk	ST-22B
Property Line Sidewalk	ST-22C
Curb Ramp, Parallel Type A	ST-22D
Curb Ramp, Parallel Type B	ST-22E
Curb Ramp Perpendicular	ST-22F
Widened Sidewalk at Mailbox Locations	ST-24
Driveway with Curb Line Sidewalk (Option 1)	ST-25
Driveway with Curb Line Sidewalk (Option 2)	ST-26
Driveway with Property Line Sidewalk	ST-27
Detectable Warning Surfaces	ST-28
Type 1 Catch Basin	ST-30
Type 2 Catch Basin	ST-31
Type 3 Catch Basin	ST-32
Catch Basin Frames & Grate	ST-33

List of Standard Plans – Streets and Storm Drains (continued)

Standard Manhole for Pipe 8" through 21" Diameter	ST-40
Large Diameter Manhole	ST-41
Standard Shallow Manhole	ST-42
Shallow Manhole Heavy-Traffic Areas	ST-43
Shallow Manhole Non-Heavy Traffic Areas	ST-44
Manhole Frames, Covers & Riser Rings	ST-45
Manhole Adjustment Detail	ST-46
Control Structure	ST-47
Perforated Pipe Trench Details	ST-52
Trench Backfill & Pipe Bedding	ST-55
Pavement Patch	ST-56
Concrete Approach	ST-57
Small Retaining Wall	ST-58
Existing Driveway Approach	ST-59
Standard Roof Drain Leach Line	ST-60
Leach Line Trap	ST-61
Perforated Area Drain (Private)	ST-62

NOTES:

- 1. ALL CONSTRUCTION TO BE TO CITY OF KEIZER STANDARD CONSTRUCTION SPECIFICATIONS AND DESIGN STANDARDS.
- 2. COORDINATION WITH UTILITIES:
 - A. THE LOCATION AND DESCRIPTION OF EXISTING UTILITIES SHOWN ARE COMPILED FROM AVAILABLE RECORDS AND/OR FIELD SURVEYS. THE CITY OR UTILITY COMPANIES DO NOT GUARANTEE THE ACCURACY NOR THE COMPLETENESS OF SUCH RECORDS.
 - B. THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF ORS 757.541 AND 757.571. THE CONTRACTOR SHALL NOTIFY EACH UNDERGROUND UTILITY AT LEAST 48 BUSINESS DAY HOURS PRIOR TO EXCAVATING, BORING, OR POTHOLING. ALL UTILITY CROSSINGS SHALL BE POTHOLED AS NECESSARY PRIOR TO EXCAVATING OR BORING TO ALLOW THE CONTRACTOR TO PREVENT GRADE OR ALIGNMENT CONFLICTS.
 - C. PROVISIONS SHALL BE MADE BY THE CONTRACTOR TO KEEP ALL EXISTING UTILITIES IN SERVICE AND PROTECT THEM DURING CONSTRUCTION.
 - D. UTILITIES, OR INTERFERING PORTIONS OF UTILITIES, THAT ARE ABANDONED IN PLACE SHALL BE REMOVED BY THE CONTRACTOR TO THE EXTENT NECESSARY TO ACCOMPLISH THE WORK, THE CONTRACTOR SHALL PLUG THE REMAINING EXPOSED ENDS AS DIRECTED BY THE CITY.
- 3. CONTRACTORS TO NOTIFY THE ENGINEER 48 HOURS PRIOR TO ANY CONSTRUCTION. A PRE CONSTRUCTION MEETING IS REQUIRED.
- 4. STORM DRAIN PIPE SHALL BE PVC CONFORMING TO THE FOLLOWING:

4" - 15" - ASTM D3034, SDR 35 18" - 27" - ASTM F679, PS 46

30" - 48" - ASTM F793, PS 46, SEAMLESS

OR ASTM F1803, PS 46 48" - 60" - ASTM F1803, PS 46

FITTINGS SHALL BE OF THE SAME MATERIAL AS THE PIPE. PVC PIPE AND FITTINGS SHALL HAVE GASKETED JOINTS CONFORMING TO ASTM D3212 AND F477 AND BE INSTALLED IN ACCORDANCE WITH ASTM D2321. REINFORCED CONCRETE PIPE CONFORMING TO ASTM C-14 MAY BE USED UNDER DRIVEWAYS OR ELSEWHERE AS APPROVED BY THE ENGINEER. MINIMUM COVER FOR ALL PIPE SHALL BE 2.5 FEET UNDER PAVEMENT AND 2.0 FEET ELSEWHERE. UNLESS OTHERWISE APPROVED BY THE ENGINEER.

- 5. ALL CATCH BASINS TO BE TYPE 2 WITH A MINIMUM 18" SUMP EXCEPT WHERE NOTED OTHERWISE.
- 6. RIM ELEVATIONS SHOWN ON PLAN ARE FOR REFERENCE ONLY. CONTRACTOR TO SET MANHOLE RIMS TO FINISH GRADE IMMEDIATELY AFTER COMPLETION OF BASE ROCK GRADING AND PRIOR TO A.C. OVERLAY.
- 7. EMBANKMENTS SHALL BE PLACED AND COMPACTED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR CITY OF KEIZER. MATERIALS TO BE COMPACTED TO 95% OF SPT RELATIVE MAXIMUM DENSITY.
- 8. GRANULAR BACKFILL OR CONTROL DENSITY BACKFILL FOR ALL PIPELINES CONSTRUCTED IN THE IMPROVED PORTION OF THE ROADWAY. USE CONTROL DENSITY BACKFILL IN STREET CROSSINGS AS NOTED ON THE PLAN.
- 9. PRIOR TO FINAL APPROVAL, PROJECT ENGINEER TO SUPPLY CITY OF KEIZER WITH A COMPLETE SET OF "AS BUILT" DRAWINGS SHOWING SERVICE LENGTHS AND DEPTHS, LENGTHS BETWEEN STRUCTURES, AND SERVICE LOCATIONS OR TEES OR CORPORATION STOPS.
- 10. DIMINSIONS AND NOTES TAKE PRECEDENCE OVER GRAPHICAL REPRESENTATION.



CITY OF KEIZER

DEPARTMENT OF PUBLIC WORKS

STANDARD GENERAL NOTES

DRAWN: S.W.P.

DATE:

01 - 25 - 00

APPROVED: W.I.P.

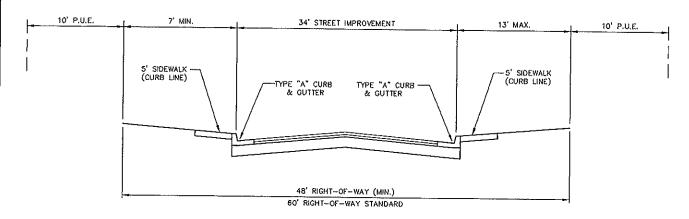
NUMBER:

ST-

RESIDENTIAL STREETS

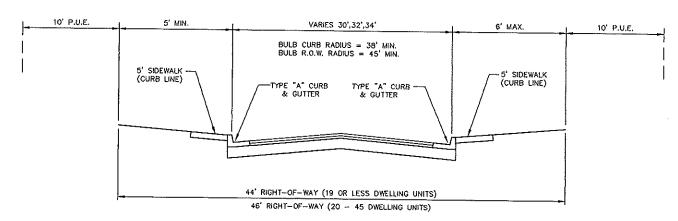
SERVICE AREA

80 OR MORE DWELLING UNITS
800 OR MORE ADT OR
MORE THAN 320,000 SQ. FT.



CUL DE SACS

MAX. LENGTH 800' OR
LESS THAN 450 ADT OR
LESS THAN 183,999 SQ. FT.



NOTES:

- 1. ADT = AVERAGE DAILY TRAFFIC BASED ON INSTITUTE OF TRAFFIC ENGINEERS, TRIP GENERATION MANUAL.
- 2. TRIP GENERATION RATE FOR SINGLE FAMILY DWELLINGS 10 TRIPS PER DAY.
- SIDEWALKS SHALL BE OF THEIR FULL UNOBSTRUCTED WIDTH AROUND SIGNS, MAILBOXES, UTILITY POLES, ECT. (SEE DETAIL ST-24)
- 4. LENGTH OF FULL HEIGHT CURB BETWEEN DRIVEWAYS SHALL BE 6" BOTH SIDES (1' TOTAL).
- 5. LOCATION & WIDTH OF UTILITY EASEMENTS TO BE DETERMINED BY CITY OF KEIZER PUBLIC WORKS.
- 6. SLOPES IN UTILITY EASEMENTS TO BE 2:1 MAX. UNLESS NOTED BY CITY OF KEIZER PUBLIC WORKS.
- 7. 18" BEHIND SIDEWALK RESERVED FOR WATER UTILITIES.
- 8. STREET WIDTHS SHOWN OBTAINED FROM RESIDENTIAL STREET STANDARDS AS LISTED IN CITY OF KEIZER SUBDIVISION ORDINANCE.
- 9. SEE DETAIL ST-12 FOR TYPICAL STREET SECTION.



CITY OF KEIZER

DEPARTMENT OF PUBLIC WORKS

STREET & RIGHT OF WAY GUIDELINES (SEE ALSO ST-11)

DRAWN: T.A.K.

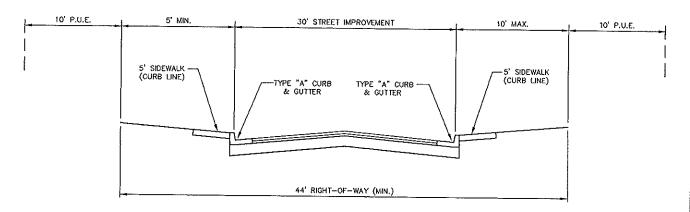
DATE: 04-04-95

APPROVED: W.I.P.

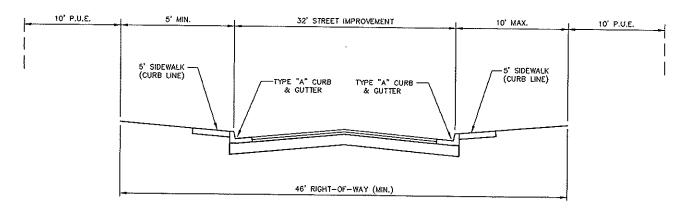
NUMBER: ST-10

RESIDENTIAL STREETS

SERVICE AREA 0 - 19 DWELLING UNITS OR SERVING 190 AOT OR 79,999 SQ. FT.



SERVICE AREA 20 - 79 DWELLING UNITS OR 790 ADT OR 80,000 TO 319,999 SQ. FT.



NOTES:

- 1. ADT = AVERAGE DAILY TRAFFIC BASED ON INSTITUTE OF TRAFFIC ENGINEERS, TRIP GENERATION MANUAL.
- 2. TRIP GENERATION RATE FOR SINGLE FAMILY DWELLINGS 10 TRIPS PER DAY.
- SIDEWALKS SHALL BE OF THEIR FULL UNOBSTRUCTED WIDTH AROUND SIGNS, MAILBOXES, UTILITY POLES, ECT. (SEE DETAIL ST-24)
- 4. LENGTH OF FULL HEIGHT CURB BETWEEN DRIVEWAYS SHALL BE 6" BOTH SIDES (1' TOTAL).
- 5. LOCATION & WIDTH OF UTILITY EASEMENTS TO BE DETERMINED BY CITY OF KEIZER PUBLIC WORKS.
- 6. SLOPES IN UTILITY EASEMENTS TO BE 2:1 MAX. UNLESS NOTED BY CITY OF KEIZER PUBLIC WORKS.
- 7. 18" BEHIND SIDEWALK RESERVED FOR WATER UTILITIES.
- 8. STREET WIDTHS SHOWN OBTAINED FROM RESIDENTIAL STREET STANDARDS AS LISTED IN CITY OF KEIZER SUBDIVISION ORDINANCE.
- 9. SEE DETAIL ST-12 FOR TYPICAL STREET SECTION.



CITY OF KEIZER

DEPARTMENT OF PUBLIC WORKS

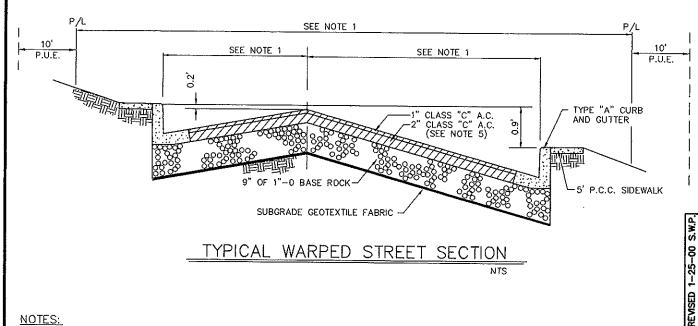
STREET & RIGHT OF WAY GUIDELINES (SEE ALSO ST-10)

DRAWN: T.A.K.

DATE: 04-04-95

APPROVED: W.I.P.

NUMBER: ST-11



TYPICAL WARPED STREET SECTION

NOTES:

- 1. SEE STD. DWG. ST-11 FOR STREET AND R.O.W. WIDTHS BASED ON SIZE OF DEVELOPMENT.
- 2. MAXIMUM SLOPE ON RESIDENTIAL STREETS IS 6.0%
- 3. ALTERNATE DESIGNS TO BE APPROVED BY CITY OF KEIZER PUBLIC WORKS DEPT.
- 4. SEE DWG. ST-20 THROUGH ST-23 FOR CURB AND DRIVEWAY DETAILS.
- 2" LIFT A.C. TO BE PLACED AT TIME OF STREET CONSTRUCTION. 1" LIFT A.C. TO BE PLACED (1) YEAR AFTER COMPLETION. PERFORMANCE SECURITY REQUIRED.

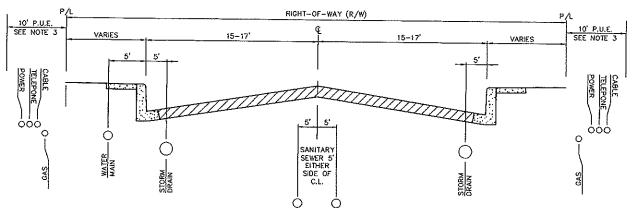


CITY OF KEIZER

DEPARTMENT OF PUBLIC WORKS

STANDARD CROSS SECTIONS FOR RESIDENTIAL STREETS

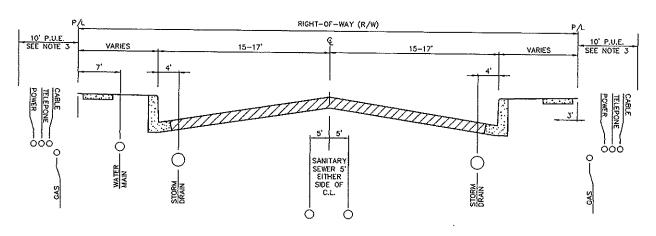
DRAWN: T.A.K. DATE: 04-04-95



NOTES:

- 1. DIMENSION FOR 50' RIGHT-OF-WAY (R/W)
- 2. CURB LINE SIDEWALKS ALLOWED ONLY ON CUL-DE-SAC STREETS OR WHERE NECESSITATED BY TERRAIN
- 3. WATER MAIN LOCATION TO BE DETERMINED BY THE DEPT. OF PUBLIC WORKS FOR RIGHT-OF-WAYS LESS THAN 50'.

CURB LINE SIDEWALK



PROPERTY LINE SIDEWALK

NOTE:

- POWER, TELEPHONE, GAS, & CABLE TO BE COMBINED IN ONE COMMON JOINT TRENCH WHERE PRACTICAL.
- 2. 30" MINIMUM COVER FOR POWER, TELEPHONE, GAS, & CABLE LINES. 36" MINIMUM COVER FOR WATER MAINS; UNLESS A SPECIAL EXCEPTION IS PRE-APPROVED BY THE PUBLIC WORKS DEPARTMENT.
- 3. 10' P.U.E. IS REQUIRED ALONG ALL FRONT LOT LINES.



CITY OF KEIZER

DEPARTMENT OF PUBLIC WORKS

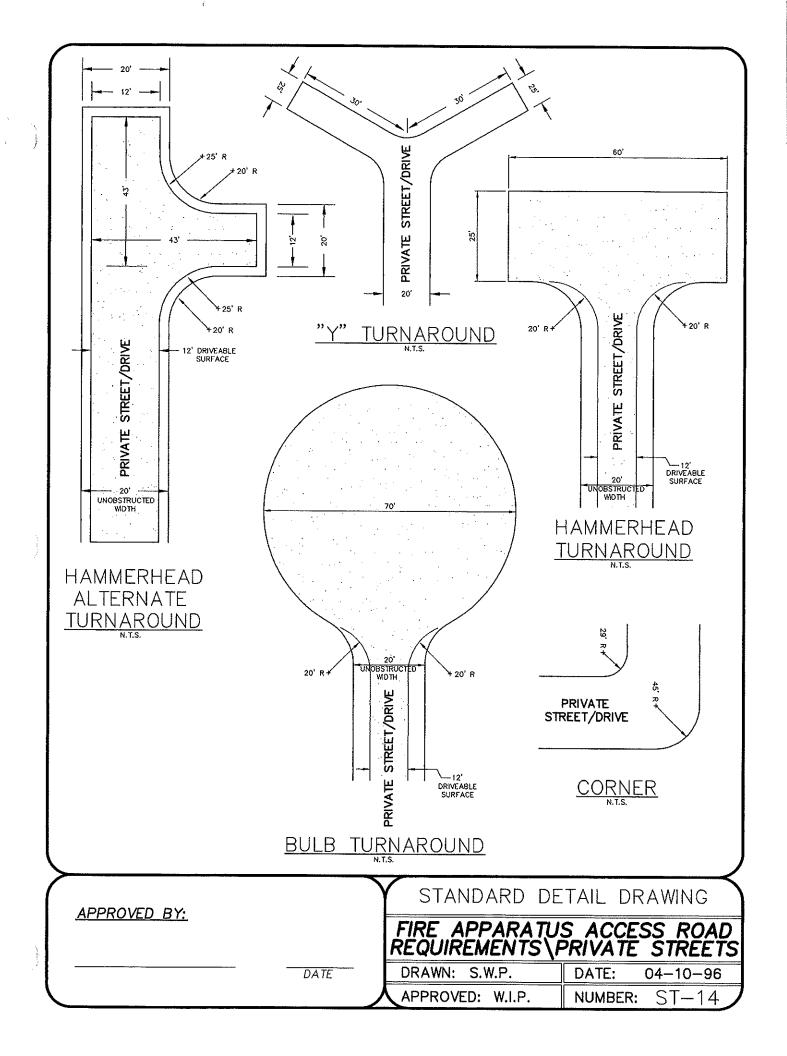
STANDARD UTILITY LOCATIONS

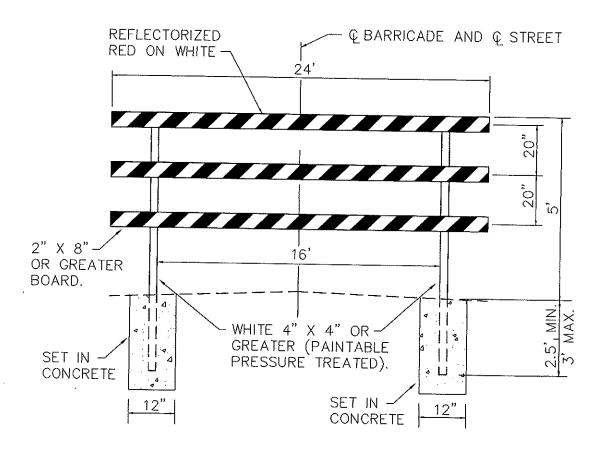
RESIDENTIAL STREETS

DRAWN: T.A.K. DATE: 04-05-95

APPROVED: W.I.P.

NUMBER:





NOTES:

- REFLECTORIZED TAPE, CONFORM TO O.D.O.T. STANDARD SPECIFICATIONS. SEC: 02910.30
- 2. CONSTRUCT TWO (2) BARRICADES AT END OF ALL STREETS 25 FEET OR WIDER.

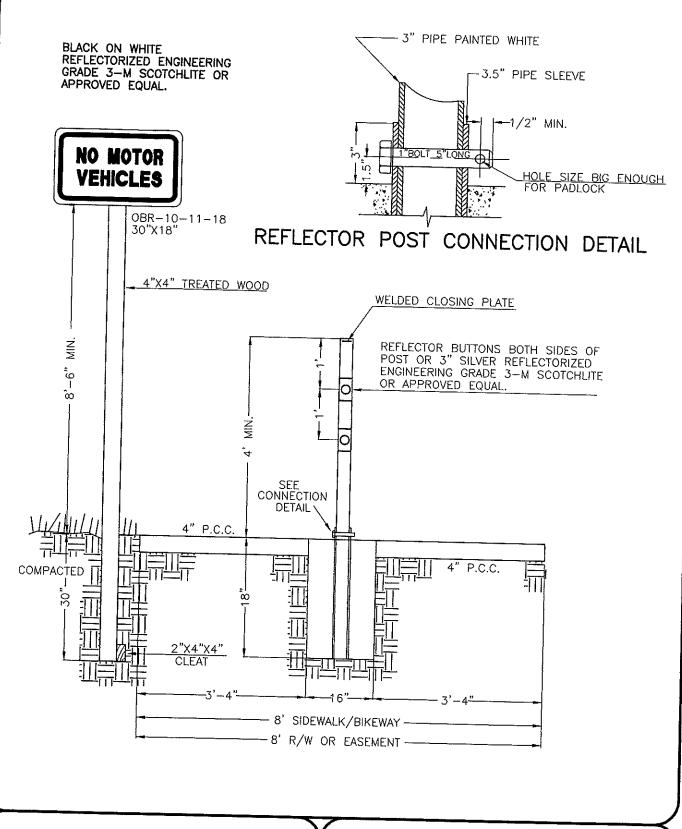


CITY OF KEIZER

DEPARTMENT OF PUBLIC WORKS

STREET BARRICADE

DRAWN: T.A.K. DATE: 04-04-95

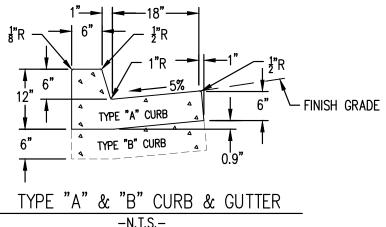




DEPARTMENT OF PUBLIC WORKS

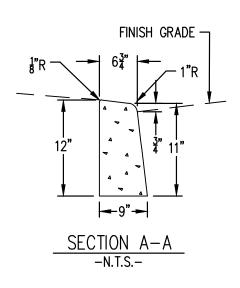
BIKE PATH ACCESS DETAIL

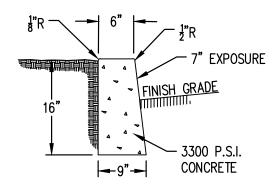
DRAWN: T.A.K. DATE: 04-04-95
APPROVED: W.I.P. NUMBER: ST-18



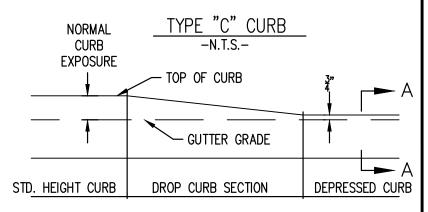
NOTES:

- CURB AND GUTTER SHOWN MAY BE USED WITH EITHER A.C. OR P.C.C. PAVEMENTS.
- ANY CURB TRANSITIONS WILL BE DETAILED ON PROJECT PLANS AS NECESSARY.
- "TEE-BAR," CONTRACTION JOINT TO BE INSTALLED EVERY 15' OF CURB.
- 3300 P.S.I. CONCRETE TO BE USED FOR ALL CURBS.
- CURB TO BE TYPE "A" CURB AND GUTTER UNLESS OTHERS APPROVED BY CITY ENGINEER.
- GUTTER PAN SLOPE: 5.0% (NORMAL)





*TRAFFIC ISLANDS & SPECIAL DESIGN SITUATIONS ONLY.



60" MINIMUM FOR CURB LINE SIDEWALK. 36" MINIMUM, 48" MAXIMUM FOR PROPERTY LINE SIDEWALK

TYPICAL DRIVEWAY TRANSITION -N.T.S.-

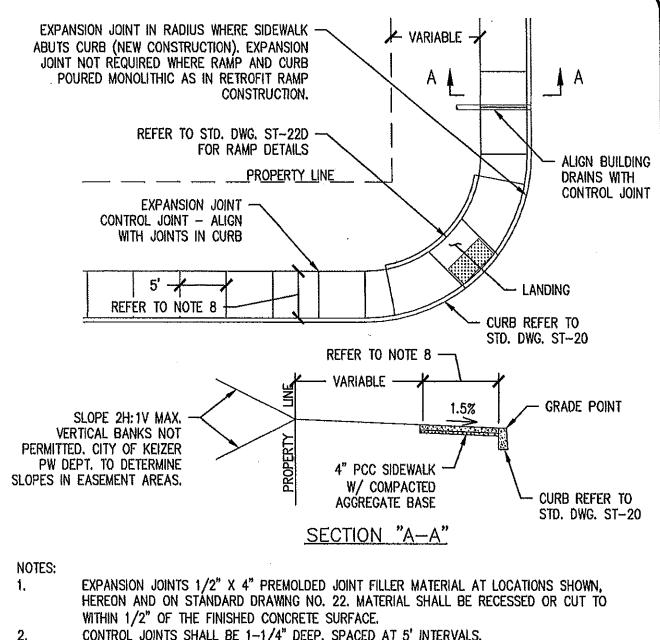


CITY OF KEIZER

DEPARTMENT OF PUBLIC WORKS

CURB & CURB/GUTTER SECTIONS

DRAWN: A.D.M. DATE: 01 - 31 - 23NUMBER: ST-20 APPROVED: W.I.P.



- CONTROL JOINTS SHALL BE 1-1/4" DEEP, SPACED AT 5' INTERVALS. 2.
- 28 DAY CONCRETE STRENGTH SHALL BE 3300 P.S.I. 3.
- PAVEMENT, TURF, OR PLANTED AREAS DISTURBED BY SIDEWALK CONSTRUCTION SHALL BE RESTORED TO ORIGINAL CONDITION.
- FINISH SIDEWALK WITH LIGHT TRANSVERSE BROOMING EXCEPT AT RAMPS, 5.
- ALL EDGES SHALL BE TOOL ROUNDED AND SHINED (3") AFTER BROOMING. 6. SEE STD. DRAWING ST-24 FOR STD. SIDEWALK DEPTHS AT MAILBOX LOCATIONS. 7.
- 8. 5' MIN. SIDEWALK WIDTH FOR LOCAL STREETS - 6' MIN. SIDEWALK WIDTH FOR ARTERIAL AND COLLECTOR STREETS. SLOPE 1.5% TYPICAL, 2% MAXIMUM



DEPARTMENT OF PUBLIC WORKS

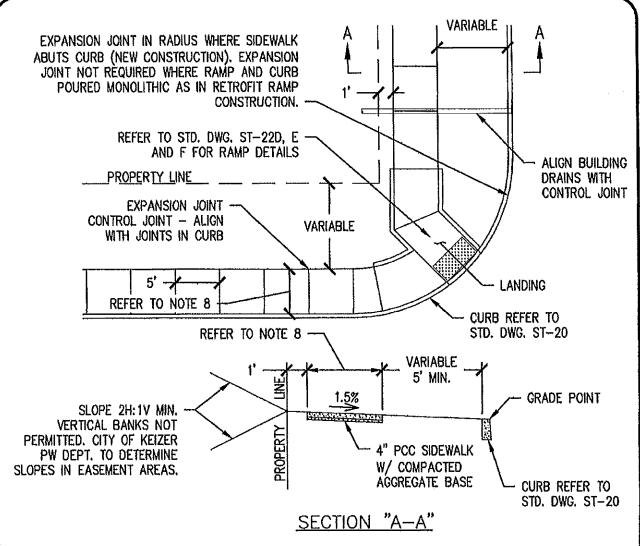
CURB LINE SIDEWALK

DRAWN: G.H.B.

DATE: 12-21-16

APPROVED: W.I.P.

NUMBER: ST-22A



NOTES:

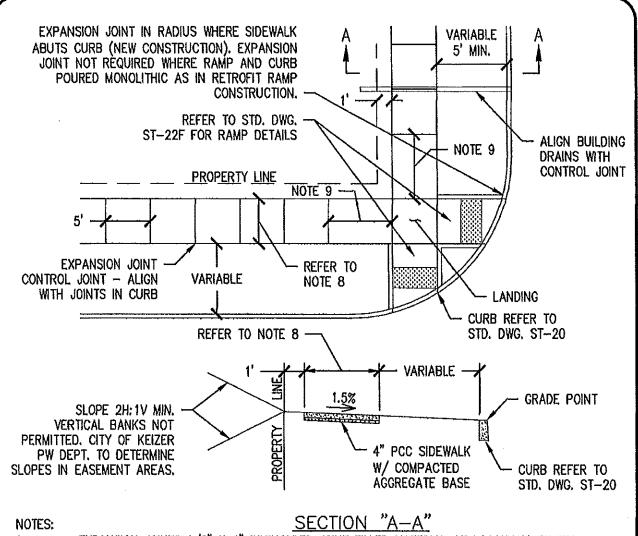
- 1. EXPANSION JOINTS 1/2" X 4" PREMOLDED JOINT FILLER MATERIAL AT LOCATIONS SHOWN, HEREON AND ON STANDARD DRAWING NO. 22. MATERIAL SHALL BE RECESSED OR CUT TO WITHIN 1/2" OF THE FINISHED CONCRETE SURFACE.
- 2. CONTROL JOINTS SHALL BE 1-1/4" DEEP, SPACED AT 5' INTERVALS.
- 3, 28 DAY CONCRETE STRENGTH SHALL BE 3300 P.S.I.
- 4. PAVEMENT, TURF, OR PLANTED AREAS DISTURBED BY SIDEWALK CONSTRUCTION SHALL BE RESTORED TO ORIGINAL CONDITION.
- 5. FINISH SIDEWALK WITH LIGHT TRANSVERSE BROOMING EXCEPT AT RAMPS.
- 6. ALL EDGES SHALL BE TOOL ROUNDED AND SHINED (3") AFTER BROOMING.
- SEE STD. DRAWING ST-24 FOR STD, SIDEWALK DEPTHS AT MAILBOX LOCATIONS.
- 8. 5' MIN. SIDEWALK WIDTH FOR LOCAL STREETS 6' MIN. SIDEWALK WIDTH FOR ARTERIAL AND COLLECTOR STREETS. SLOPE 1.5% TYPICAL, 2% MAXIMUM



DEPARTMENT OF PUBLIC WORKS

CURB-PROPERTY LINE SIDEWALK

DRAWN: G.H.B. DATE: 12-21-16
APPROVED: W.I.P. NUMBER: ST-22B



- EXPANSION JOINTS 1/2" X 4" PREMOLDED JOINT FILLER MATERIAL AT LOCATIONS SHOWN. HEREON AND ON STANDARD DRAWING NO. 22. MATERIAL SHALL BE RECESSED OR CUT TO WITHIN 1/2" OF THE FINISHED CONCRETE SURFACE.
- CONTROL JOINTS SHALL BE 1-1/4" DEEP, SPACED AT 5' INTERVALS. 28 DAY CONCRETE STRENGTH SHALL BE 3300 P.S.I. 2.
- 3,
- PAVEMENT, TURF, OR PLANTED AREAS DISTURBED BY SIDEWALK CONSTRUCTION SHALL BE 4. RESTORED TO ORIGINAL CONDITION.
- 5. FINISH SIDEWALK WITH LIGHT TRANSVERSE BROOMING EXCEPT AT RAMPS,
- ALL EDGES SHALL BE TOOL ROUNDED AND SHINED (3") AFTER BROOMING. 6.
- 7. SEE STD. DRAWING ST-24 FOR STD. SIDEWALK DEPTHS AT MAILBOX LOCATIONS.
- 5' MIN. SIDEWALK WIDTH FOR LOCAL STREETS 6' MIN. SIDEWALK WIDTH FOR ARTERIAL AND 8. COLLECTOR STREETS. SLOPE 1.5% TYPICAL, 2% MAXIMUM
- TRANSITION LENGTHS ARE VARIABLE AND BASED ON STREET GRADES 8.3% MAX. SLOPE OR 9. 15' MAX. LENGTH.



DEPARTMENT OF PUBLIC WORKS

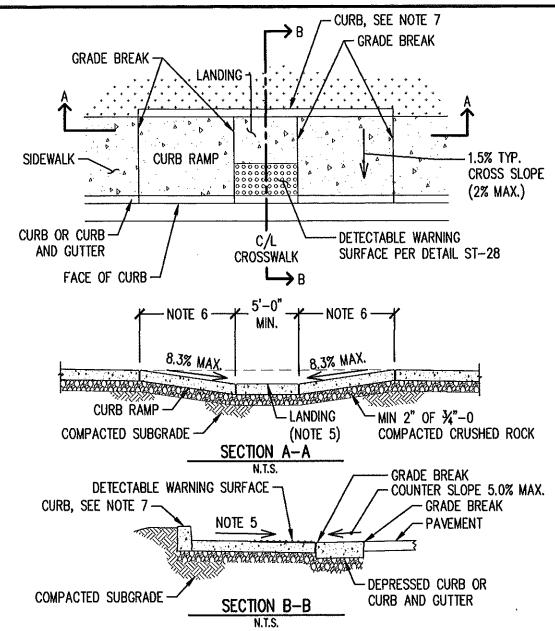
PROPERTY LINE SIDEWALK

DRAWN: G.H.B.

DATE: 12-21-16

APPROVED: W.I.P.

NUMBER: ST-22C



NOTES:

- 1. CONCRETE SHALL BE 3300 PSI AT 28 DAYS.
- 2. WHERE "GRADE BREAK" IS CALLED OUT, THE ENTIRE LENGTH OF THE GRADE BREAK BETWEEN THE TWO ADJACENT SURFACE PLANES SHALL BE FLUSH.
- 3. DO NOT PLACE GRATES, JUNCTION BOXES, ACCESS COVERS, OR OTHER APPURTENANCES IN FRONT OF THE CURB RAMP OR ON ANY PART OF THE CURB RAMP OR LANDING.
- 4. BROOM FINISH CURB RAMP, LANDING, AND FLARES.
- 5. LANDINGS SHALL HAVE A MAXIMUM SLOPE OF 2.0% IN ANY DIRECTION.
- 6. TRANSITION LENGTHS ARE VARIABLE AND BASED ON STREET GRADES 8.3% MAX. SLOPE OR 15' MAX. LENGTH.
- 7. CONSTRUCT CURB WHERE REQUIRED TO RETAIN SOIL. 6" NOMINAL CURB EXPOSURE, MAY BE MONOLITHICALLY POURED. LANDSCAPE BLOCKS MAY BE USED IN PLACE OF CURB WHEN APPROVED BY PUBLIC WORKS DEPT.



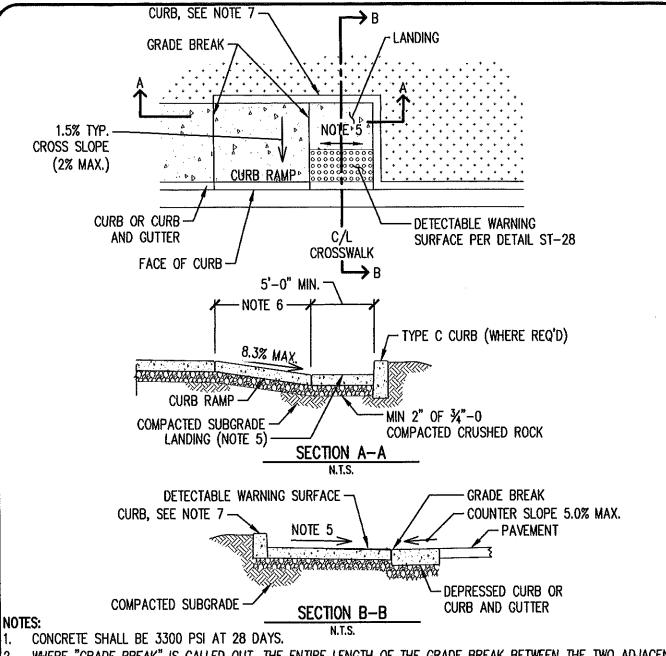
CITY OF KEIZER

DEPARTMENT OF PUBLIC WORKS

CURB RAMP - PARALLEL TYPE A

DRAWN: G.H.B. DATE: 03-22-17

APPROVED: W.I.P. NUMBER: ST-22D



- 2. WHERE "GRADE BREAK" IS CALLED OUT, THE ENTIRE LENGTH OF THE GRADE BREAK BETWEEN THE TWO ADJACENT SURFACE PLANES SHALL BE FLUSH.
- 3. DO NOT PLACE GRATES, JUNCTION BOXES, ACCESS COVERS, OR OTHER APPURTENANCES IN FRONT OF THE CURB RAMP OR ON ANY PART OF THE CURB RAMP OR LANDING.
- 4. BROOM FINISH CURB RAMP, LANDING, AND FLARES.
- 5. LANDINGS SHALL HAVE A MAXIMUM SLOPE OF 2.0% IN ANY DIRECTION.
- 6. TRANSITION LENGTHS ARE VARIABLE AND BASED ON STREET GRADES 8.3% MAX. SLOPE OR 15' MAX. LENGTH.
- 7. CONSTRUCT CURB WHERE REQUIRED TO RETAIN SOIL, 6" NOMINAL CURB EXPOSURE, MAY BE MONOLITHICALLY POURED, LANDSCAPE BLOCKS MAY BE USED IN PLACE OF CURB WHEN APPROVED BY PUBLIC WORKS DEPT.

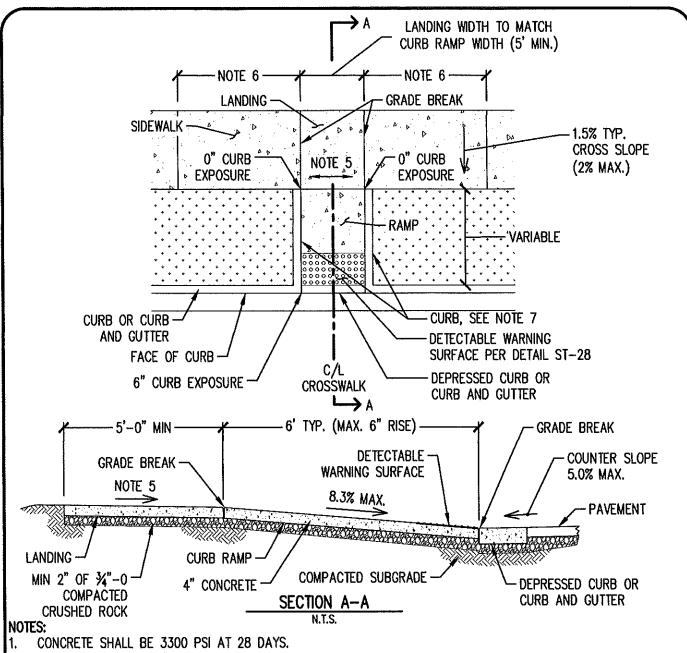


DEPARTMENT OF PUBLIC WORKS

CURB RAMP - PARALLEL TYPE B

DRAWN: G.H.B. DATE: 03-22-17

APPROVED: W.I.P. NUMBER: ST-22E



- 2. WHERE "GRADE BREAK" IS CALLED OUT, THE ENTIRE LENGTH OF THE GRADE BREAK BETWEEN THE TWO ADJACENT SURFACE PLANES SHALL BE FLUSH.
- 3. DO NOT PLACE GRATES, JUNCTION BOXES, ACCESS COVERS, OR OTHER APPURTENANCES IN FRONT OF THE CURB RAMP OR ON ANY PART OF THE CURB RAMP OR LANDING.
- 4. BROOM FINISH CURB RAMP, LANDING, AND FLARES.
- 5. LANDINGS SHALL HAVE A MAXIMUM SLOPE OF 2.0% IN ANY DIRECTION.
- 6. TRANSITION LENGTHS ARE VARIABLE AND BASED ON STREET GRADES 8.3% MAX. SLOPE OR 15' MAX. LENGTH.
- 7. CONSTRUCT CURB WHERE REQUIRED TO RETAIN SOIL, 6" NOMINAL CURB EXPOSURE, MAY BE MONOLITHICALLY POURED, LANDSCAPE BLOCKS MAY BE USED IN PLACE OF CURB WHEN APPROVED BY PUBLIC WORKS DEPT.

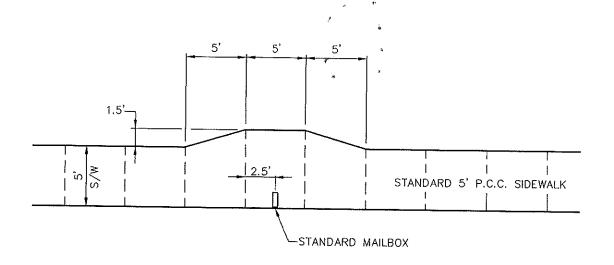


DEPARTMENT OF PUBLIC WORKS

CURB RAMP - PERPENDICULAR

DRAWN: G.H.B. DATE: 03-22-17

APPROVED: W.I.P. NUMBER: ST-22F



NOTE:

- 1. SEE DETAIL ST-21 FOR STANDARD SIDEWALK SPECIFICATIONS.
- 2. CONSTRUCT WIDENED SIDEWALK AT ALL MAILBOX LOCATIONS.
- 3. MAILBOX PLACEMENT SPECIFICATIONS:

 FRONT FACE OF MAILBOX TO BE SET BACK 6" FROM FACE OF CURB.

 BASE OF MAILBOX TO BE BETWEEN 38" AND 40" FROM CURB GUTTER OR PAVEMENT GRADE.



CITY OF KEIZER

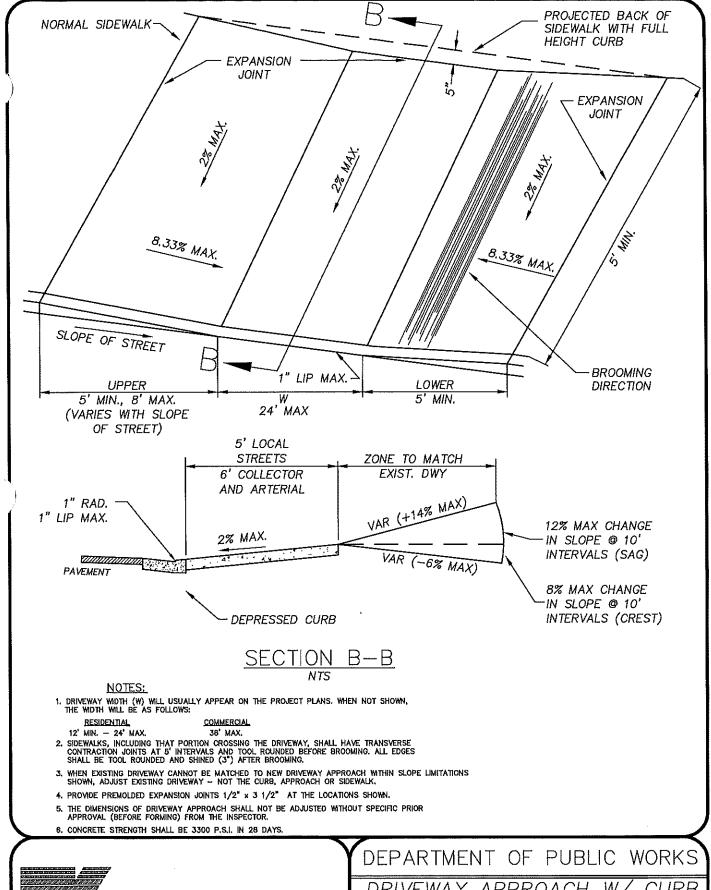
DEPARTMENT OF PUBLIC WORKS

WIDENED SIDEWALK AT MAILBOX LOCATIONS

DRAWN: T.A.K. APPROVED: W.I.P.

04-04-95 DATE:

NUMBER:

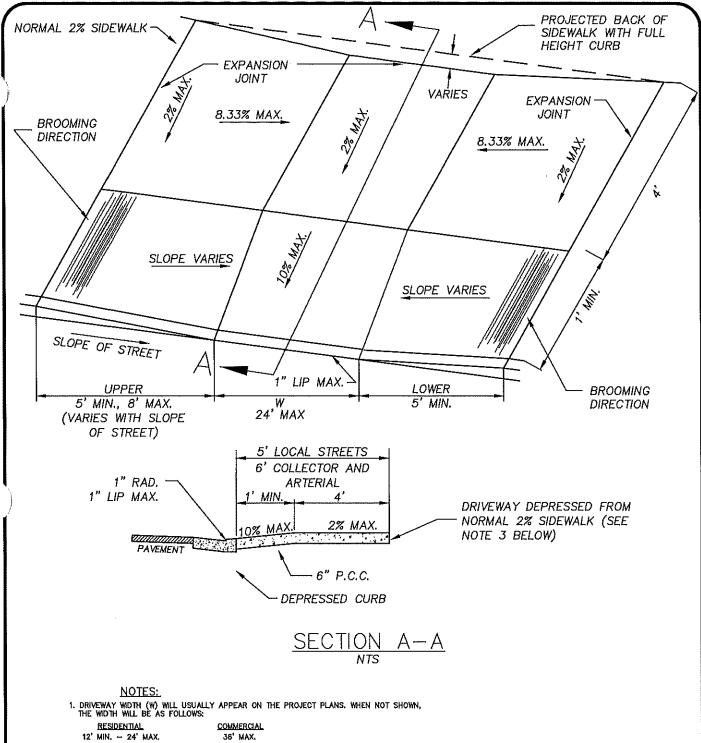




DRIVEWAY APPROACH W/ CURB LINE WALK OPTION #1

DRAWN: G.H.B. DATE: 08-10-2016

APPROVED: W.I.P. NUMBER: ST-25



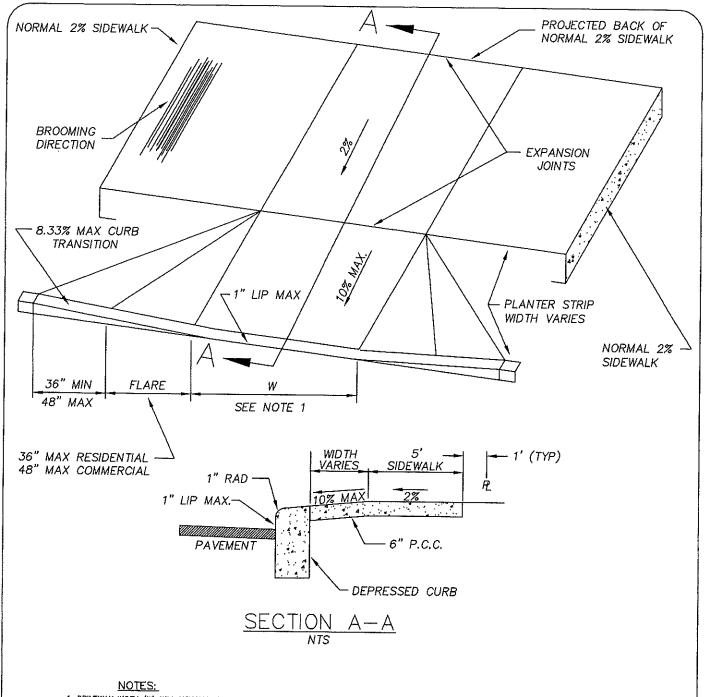
- 2. SIDEWALKS, INCLUDING THAT PORTION CROSSING THE DRIVEWAY, SHALL HAVE TRANSVERSE CONTRACTION JOINTS AT 5' INTERVALS AND TOOL ROUNDED BEFORE BROOMING. ALL EDGES SHALL BE TOOL ROUNDED AND SHINED (3") AFTER BROOMING.
- 3. WHEN EXISTING DRIVEWAY CANNOT BE MATCHED TO NEW DRIVEWAY APPROACH WITHIN SLOPE LIMITATIONS SHOWN, ADJUST EXISTING DRIVEWAY NOT THE CURB, APPROACH OR SIDEWALK.
- 4. PROVIDE PREMOLDED EXPANSION JOINTS 1/2" x 3 1/2" AT THE LOCATIONS SHOWN.
- 5. THE DIMENSIONS OF DRIVEWAY APPROACH SHALL NOT BE ADJUSTED WITHOUT SPECIFIC PRIOR APPROVAL (BEFORE FORMING) FROM THE INSPECTOR.
- 6. CONCRETE STRENGTH SHALL BE 3300 P.S.I. IN 28 DAYS.



DEPARTMENT OF PUBLIC WORKS

DRIVEWAY APPROACH W/ CURB LINE WALK OPTION #2

DRAWN: G.H.B. DATE: 08 - 10 - 2016ST-26 APPROVED: W.I.P. NUMBER:



1. DRIVEWAY WOTH (W) WILL USUALLY APPEAR ON THE PROJECT PLANS. WHEN NOT SHOWN, THE WOTH WILL BE AS FOLLOWS:

RESIDENTIAL 12' MIN. - 24' MAX.

COMMERCIAL 36' MAX.

 SIDEWALKS, INCLUDING THAT PORTION CROSSING THE DRIVEWAY, SHALL HAVE TRANSVERSE CONTRACTION JOINTS AT 5' INTERVALS AND TOOL ROUNDED BEFORE BROOMING. ALL EDGES SHALL BE TOOL ROUNDED AND SHINED (3") AFTER BROOMING.

- WHEN EXISTING DRIVEWAY CANNOT BE MATCHED TO NEW DRIVEWAY WITHIN SLOPE LIMITATIONS SHOWN, ADJUST EXISTING DRIVEWAY — NOT THE CURB, APPROACH OR SIDEWALK.
- 4. PROVIDE PREMOLDED EXPANSION JOINTS 1/2" x 3 1/2" AT THE LOCATIONS SHOWN.
- THE DIMENSIONS OF DRIVEWAY APPROACH SHALL NOT BE ADJUSTED WITHOUT SPECIFIC PRIOR APPROVAL (BEFORE FORMING) FROM THE INSPECTOR.
- 6. CONCRETE STRENGTH SHALL BE 3300 P.S.I. IN 28 DAYS.



CITY OF KEIZER

DEPARTMENT OF PUBLIC WORKS

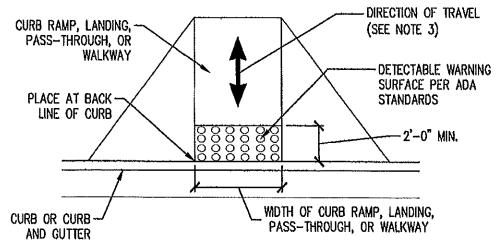
DWY W\PROPERTY LINE WALK OPTION #3

DRAWN: S.W.P.

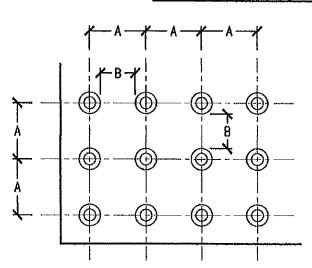
DATE: 01-04-01

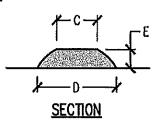
APPROVED: W.I.P.

NUMBER: ST-27



DETECTABLE WARNING SURFACE DETAIL





	MIN	MAX
Α	1.60"	2.40"
В	0.60"	0.60"
C	0.45*	0.90"
D	0.90*	1.40"
E	0.20"	0.20"

TRUNCATED DOMES DETAILS

NOTES:

- 1. THE DETECTABLE WARNING SURFACE (DWS) SHALL EXTEND THE FULL WIDTH OF THE CURB RAMP (EXCLUSIVE OF FLARES) OR THE LANDING.
- THE EDGE OF THE DWS, SHALL BE PLACED ALONG THE BACK OF THE CURB LINE,
- 3. THE ROWS OF TRUNCATED DOMES IN A DWS SHALL BE ALIGNED WITH THE DIRECTION OF TRAVEL.
- 4. PLACE TRUNCATED DOME DETECTABLE WARNING TEXTURE IN THE LOWER 2' OF THROAT OF RAMP ONLY BEHIND CURB. ARRANGE DOMES USING IN—LINE PATTERN AS SHOWN, COLOR OF TEXTURE TO BE RED.
- 5. TRUNCATED DOMES SHALL BE EITHER ARMOR-TILE, CERAMIC STYLE, OR APPROVED EQUAL.



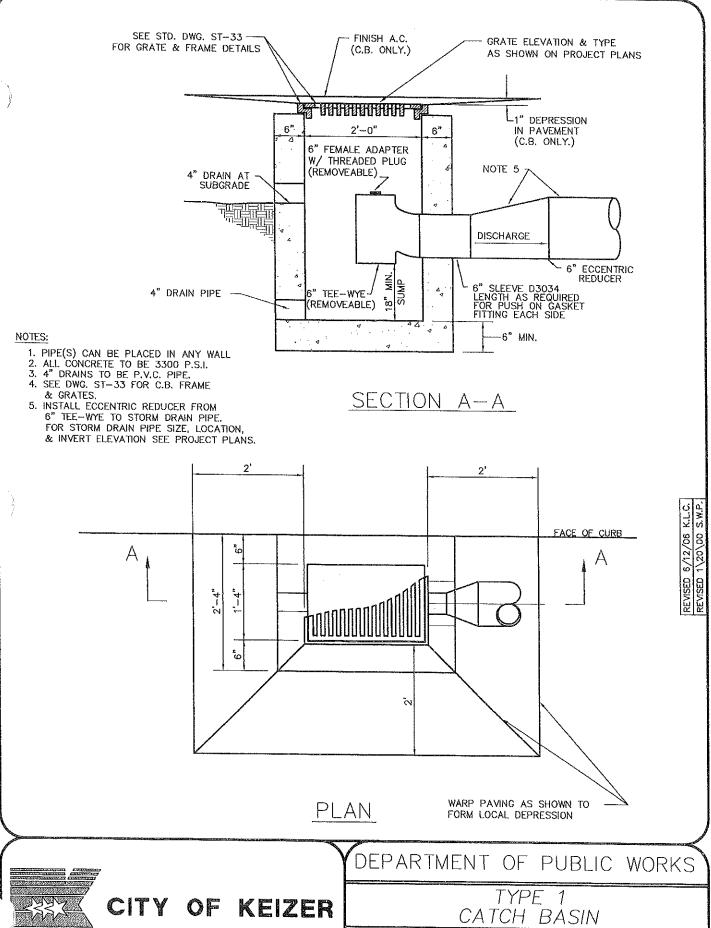
CITY OF KEIZER

DEPARTMENT OF PUBLIC WORKS

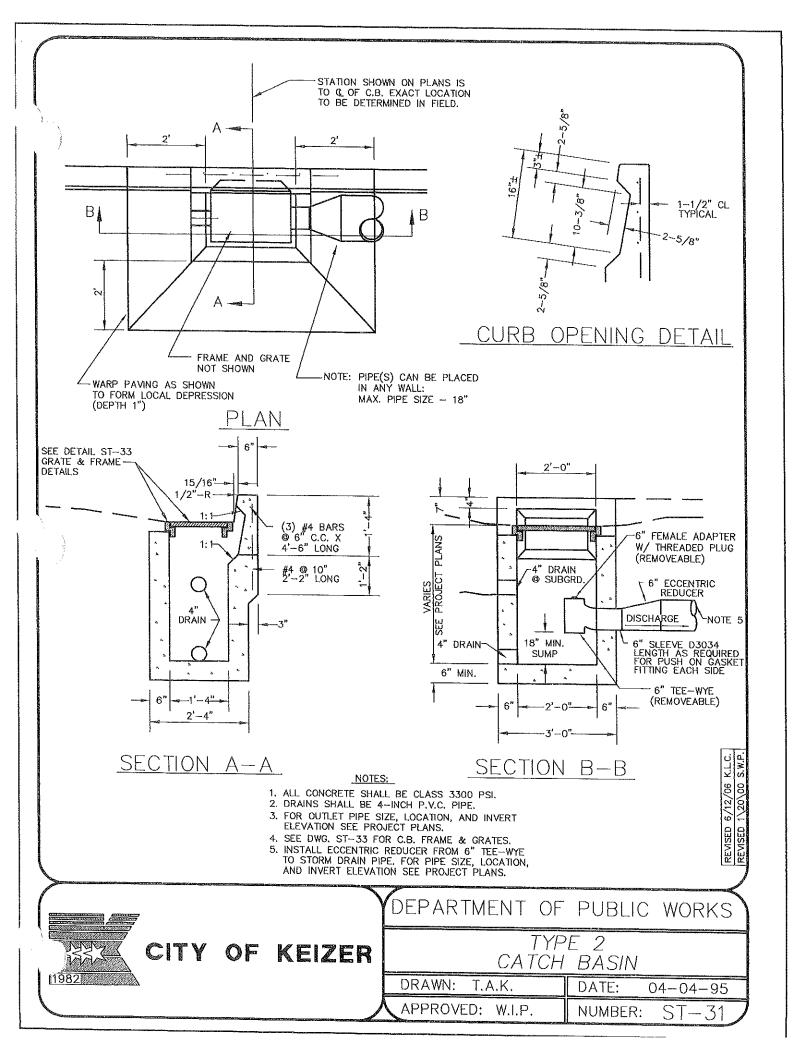
DETECTABLE WARNING SURFACES

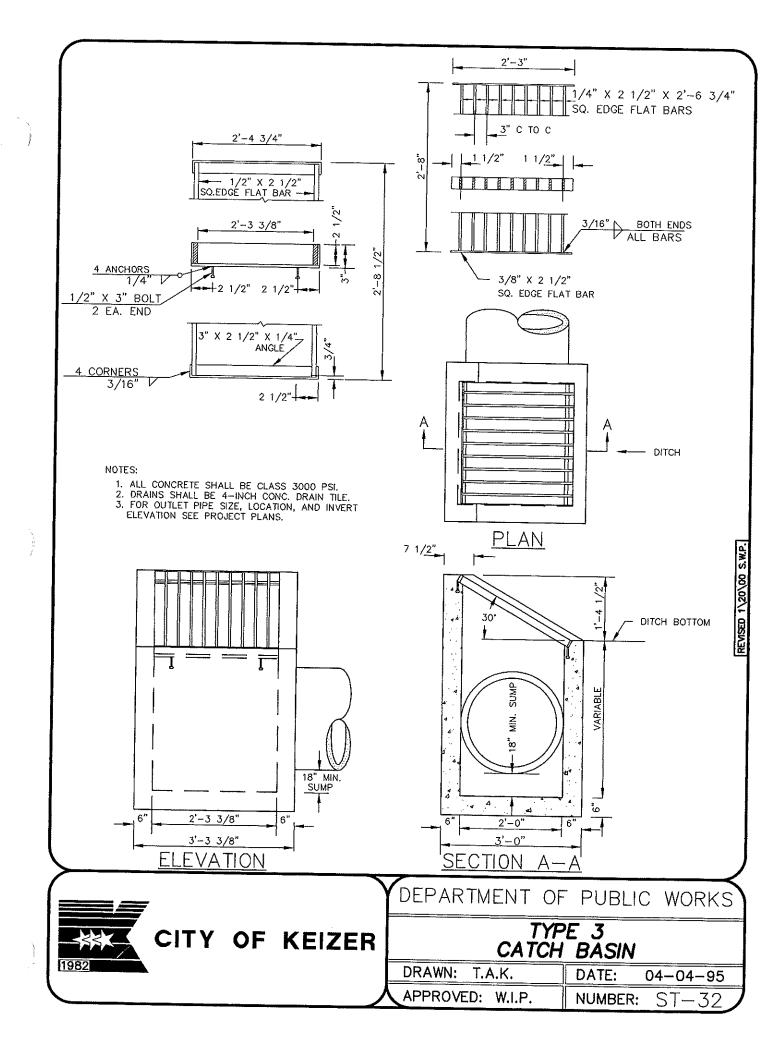
DRAWN: G.H.B. DATE: 12-21-16

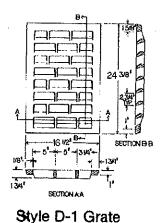
APPROVED: W.I.P. NUMBER: ST-28



DRAWN: T.A.K. | DATE: 04-04-95 APPROVED: W.I.P. | NUMBER: ST-30







GRIND SMOOTH FINISH ON BEARING SURFACES

24-1/2" 24-1/2" 24-1/2"

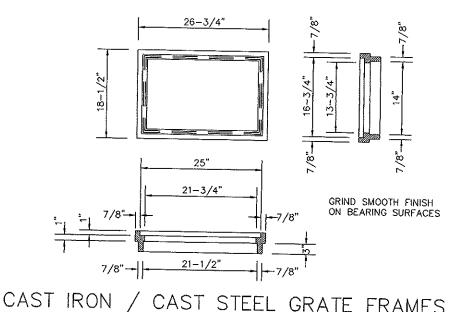
1-1/2" - 1-1/8"

ONLY TO BE USED IN CASES PRE-AUTHORIZED BY THE CITY OF KEIZER DEPT. OF PUBLIC WORKS.

DIRECTIONAL FLOW GRATE

TYPE A GRATE
1-3/8" CLEAR SPACING

CAST IRON / CAST STEEL GRATES



NOTES:

- 1. ALL CASTINGS SHALL CONFORM TO ASTM A 48(AASHTO M 105) FOR GRAY IRON CASTINGS, CLASS 30, OR (AASHTO M 192K CLASS 70) FOR CAST STEEL.
- 2. ROUNDS, FILLETS, TAPERS AND OTHER MINOR MODIFICATIONS TO THE DIMENSIONS SHOWN FOR CASTINGS MAY BE MADE TO CONFORM TO COMMON SHOP PRACTICES.
- 3. USE TYPE "B" GRATE UNLESS OTHERWISE NOTED.

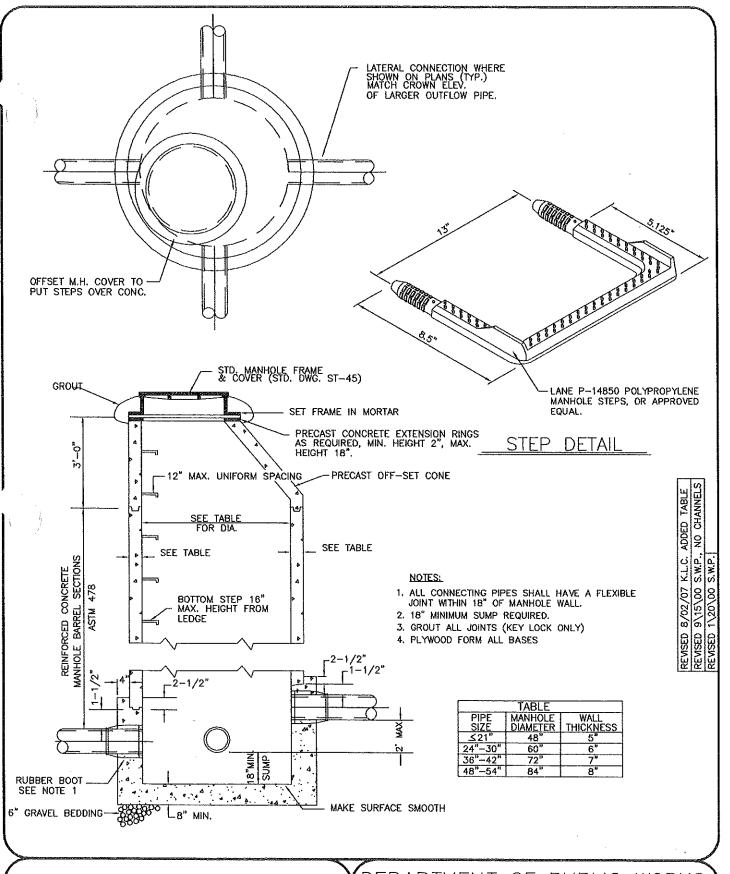


CITY OF KEIZER

DEPARTMENT OF PUBLIC WORKS

CATCH BASIN FRAMES & GRATES

DRAWN: T.A.K. DATE: 04-04-95
APPROVED: W.I.P. NUMBER: ST-33





DEPARTMENT OF PUBLIC WORKS

STANDARD MANHOLE

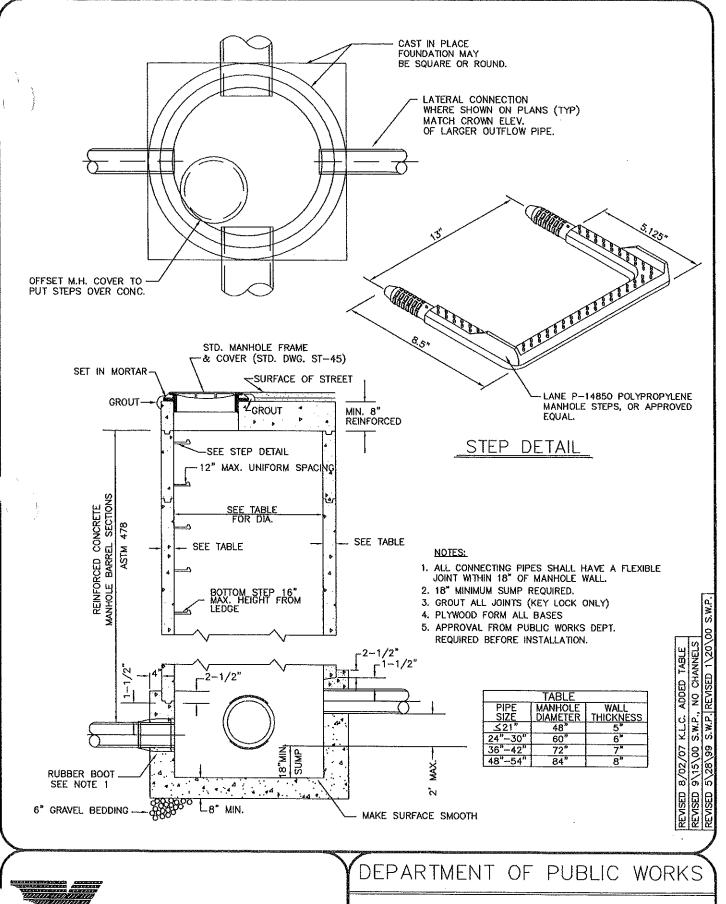
DRAWN: T.A.K.

DATE:

04-04-95

APPROVED: W.I.P.

NUMBER: ST-4

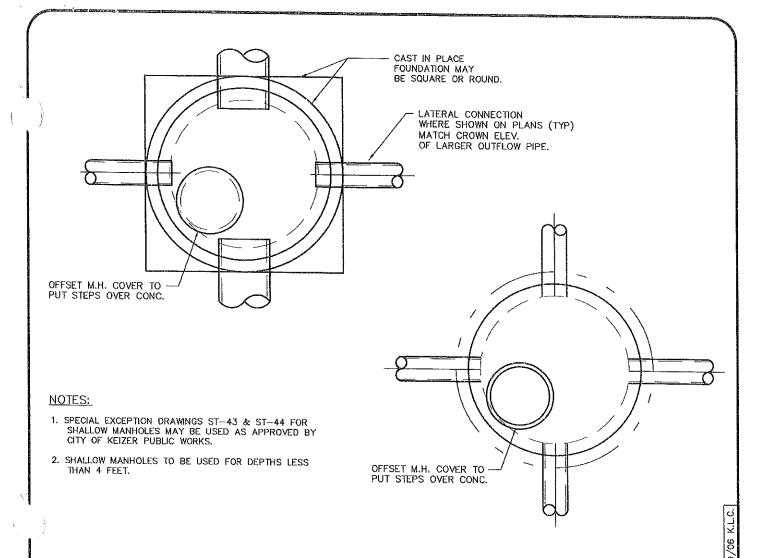


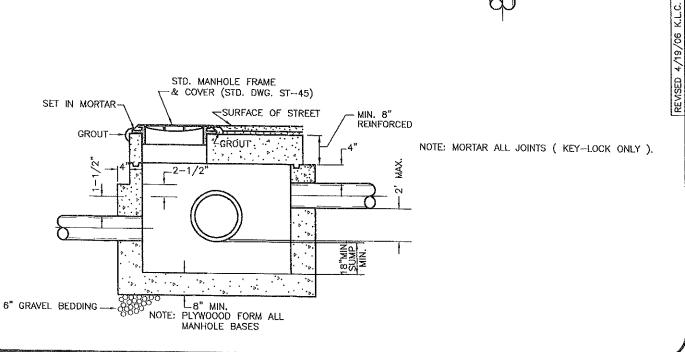


ALTERNATE DIAMETER MANHOLE

DRAWN: T.A.K.

DATE: 04-04-95







DEPARTMENT OF PUBLIC WORKS

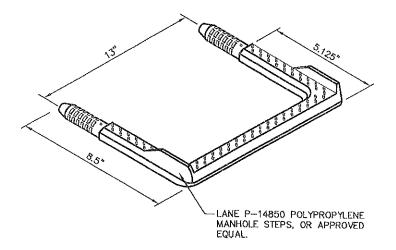
STANDARD SHALLOW MANHOLE

DRAWN: T.A.K.

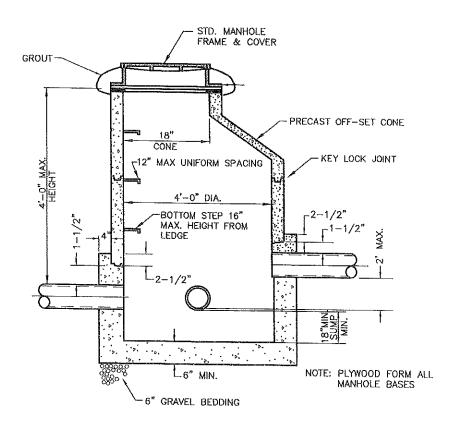
DATE: 04-04-95

APPROVED: W.I.P.

NUMBER: ST-42



STEP DETAIL



1982

CITY OF KEIZER

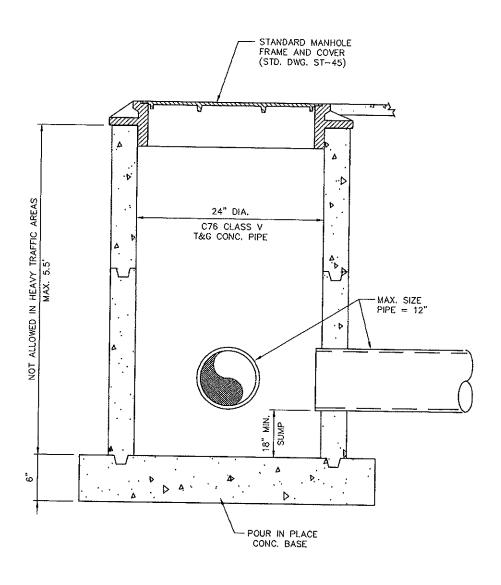
SPECIAL EXECPTION DRAWING

REVISED 4/19/06 K.L.C. REVISED 1/25/00 S.W.P.

SHALLOW MANHOLE HEAVY—TRAFFIC AREAS

DRAWN: T.A.K. DATE: 04-04-95

APPROVED: W.I.P. NUMBER: ST-43



ONLY TO BE USED IN CASES PRE—AUTHORIZED BY THE CITY OF KEIZER DEPT. OF PUBLIC WORKS.



CITY OF KEIZER

SPECIAL EXCEPTION DRAWING

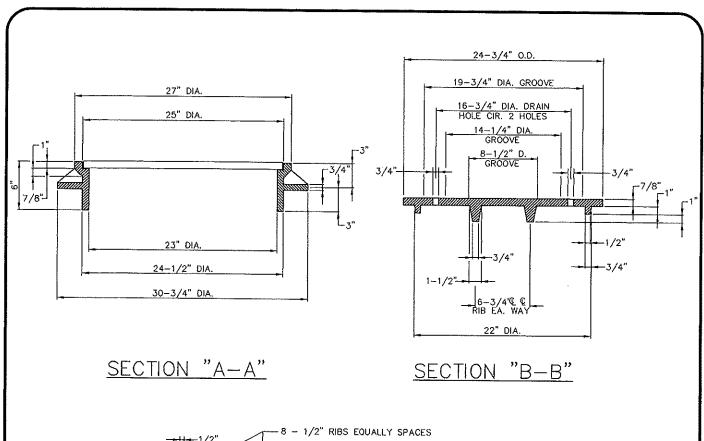
SHALLOW MANHOLE NON-HEAVY TRAFFIC AREAS

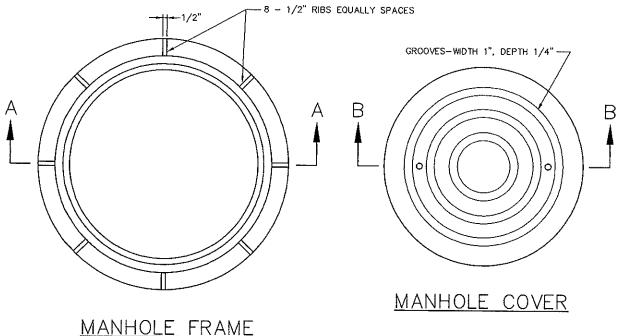
DRAWN: T.A.K.

DATE: 04-04-95

APPROVED: W.I.P.

NUMBER: ST-44





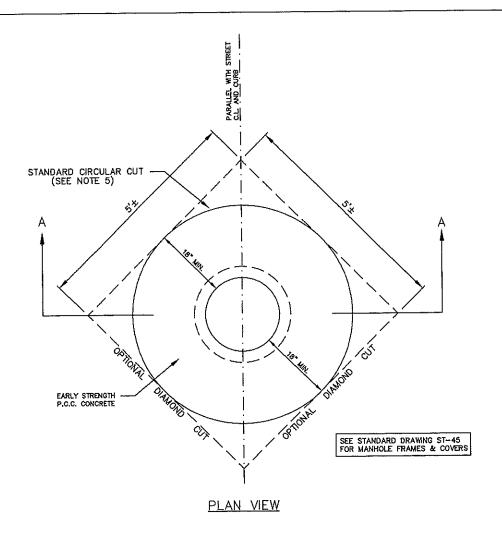


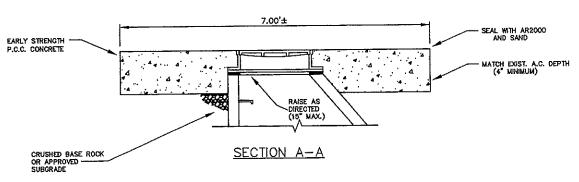
DEPARTMENT OF PUBLIC WORKS

MANHOLE FRAMES, COVERS, & RISER RINGS

 DRAWN: T.A.K.
 DATE: 04-04-95

 APPROVED: W.I.P.
 NUMBER: ST-45





- NOTES:

 1. CONTRACTOR TO LOCATE ALL MANHOLES PRIOR TO OVERLAY PAVING.
 2. CONTRACTOR TO COVER MANHOLE WITH BUILDING PAPER AND PAVE OVER EXIST. MANHOLES.
 3. MANHOLE ADJUSTMENTS TO BE MADE AFTER OVERLAY.
 4. RAISE MANHOLE FRAME AND COVER TO FINISH GRADE WITH CONCRETE ADJUSTMENT RINGS AS NECESSARY.
 5. WRITTEN APPROVAL BY PUBLIC WORKS DIRECTOR REQUIRED FOR OPTIONAL DIAMOND CUT.

MANHOLE ADJUSTMENT DETAIL



CITY OF KEIZER

STANDARD DETAIL DRAWING

MANHOLE ADJUSTMENT DETAIL

S.W.P. DRAWN:

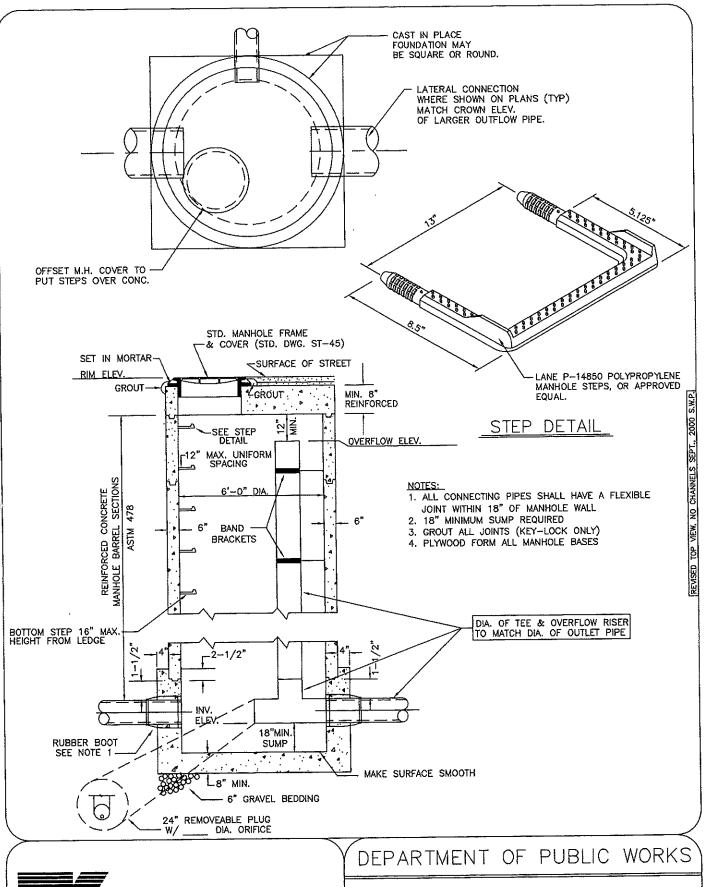
DATE:

01 - 25 - 00

REVISED CIRCLE CUT MAR. 20, 2001 S.W.P.

APPROVED: W.I.P.

-46 NUMBER:

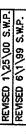


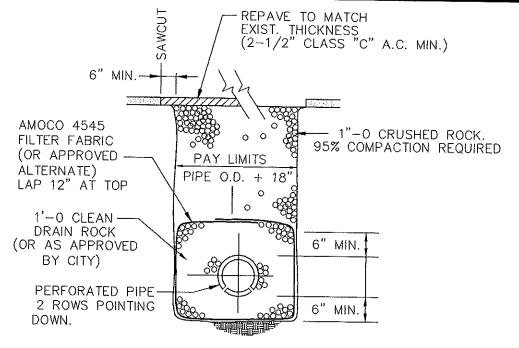


CONTROL STRUCTURE

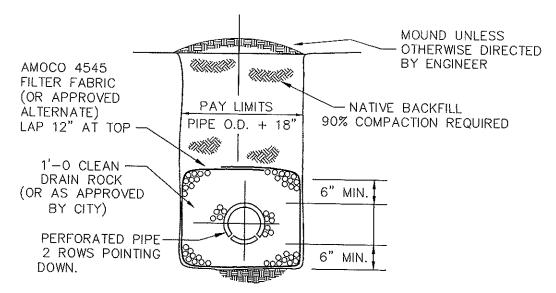
DRAWN: S.W.P.

DATE: 01-25-00





PAVED AREA DETAIL



NON-PAVED AREA DETAIL

SPECIAL NOTE:

THE PERFORATED P.V.C PIPE SHALL BE ASTM D3034 MATERIAL. DRILL 2-1/2" DIA. HOLES 12" ON CENTER ALONG PIPE 60° APART, AND PLACE HOLES FACING TRENCH BOTTOM.

TAKE CARE DURING THE INSTALLATION OF THE PIPE AND THE TRENCH CONSTRUCTION NOT TO SLICK THE TRENCH WALLS. CONSTRUCTION DURING WET WEATHER MAY CAUSE THE TRENCH WALLS NOT TO FUNCTION AS DESIGNED.



CITY OF KEIZER

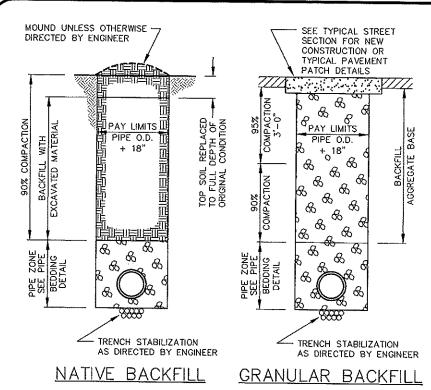
DEPARTMENT OF PUBLIC WORKS

PERFORATED PIPE TRENCH DETAILS

DRAWN: T.A.K. DATE: 04-04-95

APPROVED: W.I.P. | NU

NUMBER: ST-52



PATCH DETAILS DENSITY PAY LIMITS PIPE O.D. + 18" BACKFILL CONTROLLED 8 PIPE ZONI SEE PIPE BEDDING DETAIL B 8 TRENCH STABILIZATION AS DIRECTED BY ENGINEER

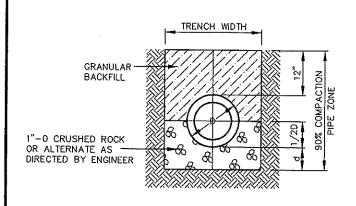
SEE TYPICAL PAVEMENT

CONTROLLED DENSITY BACKFILL

CONTROLLED DENSITY BACKFILL SHALL BE USED IN ALL EXIST. PAVED STREETS IF THE TRENCH MEETS ONE OR MORE OF THE FOLLOWING CRITERIA:

- 1. TRENCH DEPTH IS 5' OR LESS (SURFACE TO INV.)
 TRENCH WIDTH IS 12" OR LESS
- 3. TRENCH LENGTH IS 50' OR LESS

TRENCH BACKFILL DETAIL



IF REQUIRED, POLYWRAP PIPE IN ACCORDANCE

WITH POLYWRAP DETAILS

D = OUTSIDE DIAMETER d = DEPTH OF BEDDING MATERIAL BELOW

DEPTH OF BEDDING MATERIAL BELOW PIPE		
D	d	
12" & SMALLER 15" — 36" 42" & LARGER	6" 8" 10"	

WHERE DIRECTED BY THE ENGINEER, TRENCH STABILIZATION SHALL BE PLACED PRIOR TO PLACEMENT OF BEDDING. SIZE & DEPTH ARE DEPENDENT ON SOIL CONDITIONS.

FOR ROCK OR OTHER INCOMPRESSIBLE MATERIALS, TRENCH SHALL BE OVER EXCAVATED A MIN. OF 6" & REFILLED WITH GRANULAR MATERIAL AS DIRECTED BY THE ENGINEER.

BEDDING & BACKFILL MATERIALS IN PIPE ZONE SHALL BE COMPACTED AS SPECIFIED PRIOR TO BACKFILLING THE REMAINDER OF THE TRENCH.

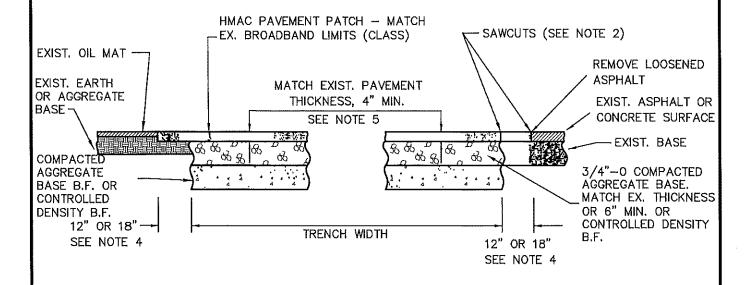
PIPE BEDDING DETAIL



DEPARTMENT OF PUBLIC WORKS

TRENCH BACKFILL & PIPE BEDDING

DRAWN: J.M.M. DATE: 01 - 25 - 00APPROVED: W.I.P. NUMBER:



TYPICAL PATCH FOR FLEXIBLE PAVEMENT -N.T.S.-

NOTES:

- ALL PAVEMENT CUTS SHALL BE MADE WITH A CONCRETE SAW, SAW CUTTING SHALL NOT PROCEED UNTIL CUT LOCATIONS ARE APPROVED BY THE CITY INSPECTOR.
- 2. TWO SAWCUTS ARE REQUIRED: ONE FOR TRENCH AND ONE JUST PRIOR TO PAVEMENT PATCHING.
- 3. 1"- 0 AGGREGATE BASE MAY BE SUBSTITUTED FOR 3/4" 0.
- 4. PAVEMENT REPLACEMENT WIDTH SHALL BE: TRENCH WIDTH PLUS 12 INCHES ON EACH SIDE FOR CONTROLLED DENSITY BACKFILL, AND TRENCH WIDTH PLUS 18 INCHES EACH SIDE FOR AGGREGATE BASE BACKFILL.
- 5. PAVEMENT REPLACEMENT THICKNESS SHALL BE AS SHOWN ABOVE FOR AGGREGATE BASE TRENCH BACKFILL, FOR CONTROLLED DENSITY TRENCH BACKFILL, PAVEMENT REPLACEMENT THICKNESS SHALL BE AS FOLLOWS:

STREET CLASSIFICATION	ARTERIAL	COLLECTOR	LOCAL
PORTLAND CEMENT CONCRETE (P.C.C.) H.M.A.C. OVER P.C.C.	8" P.C.C. 4" H.M.A.C.	7" P.C.C. 4" H.M.A.C	6" P.C.C. 4" H.M.A.C.
H.M.A.C.	6" H.M.A.C.	6" H.M.A.C.	4" H.M.A.C.

1. REVISED AS PER CITY OF KEIZ 1. REVISED AS PER CITY OF KEIZ

11-09-10 09-23-08

REVIEW.



CITY OF KEIZER

DEPARTMENT OF PUBLIC WORKS

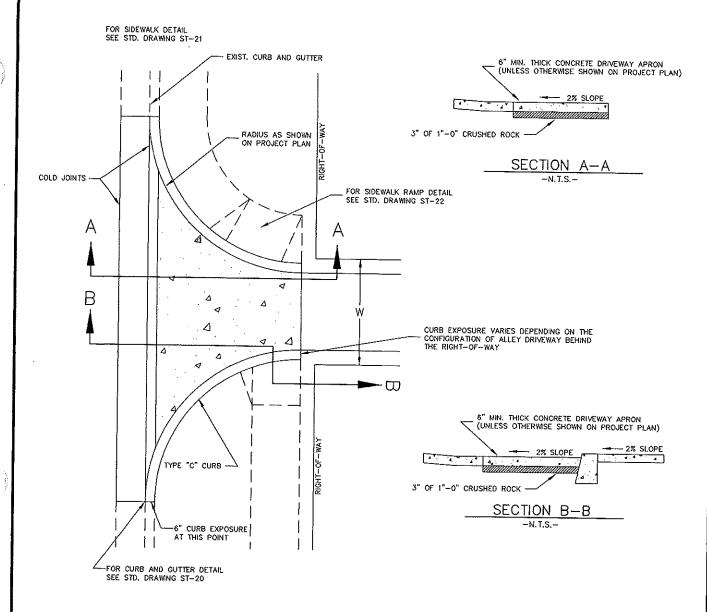
PAVEMENT PATCHING

DRAWN: S.W.P. DA

DATE: 01-25-00

NUMBER:

ST-56



NOTES:

- 1. ALL CONCRETE TO HAVE A MINIMUM 28 DAY STRENGTH RATING OF 4000 P.S.I.
- 2. W = WIDTH REQUIREMENTS AS SPECIFIED IN THE DEVELOPMENT CODE OR AS APPROVED
- 3.



CITY OF KEIZER

DEPARTMENT OF PUBLIC WORKS

CONCRETE APPROACH FOR PUBLIC/PRIVATE SEPERATION

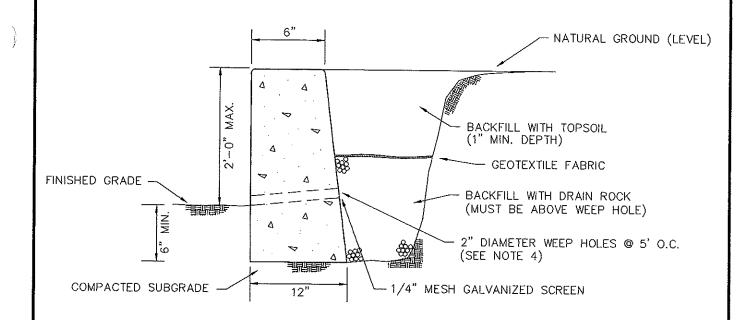
DRAWN: S.W.P.

DATE: C

01-25-00

APPROVED: W.I.P.

NUMBER: ST-5



RETAINING WALL

DESIGN NOTES:

- 1. ALL CONCRETE TO BE 3300 P.S.I.
- 2. LEVEL OFF BACKFILL,
- 3. E.F.W. = 40 P.C.F.

CONSTRUCTION NOTES:

- 1. CONTRACTION JOINT: SCORE A 3/4" DEEP "V" NOTCHED GROOVE THE FULL HEIGHT OF THE EXPOSED FACE, ACROSS THE TOP, AND 6" DOWN THE BACK OF THE WALL. INSTALL "TEE BAR" CONTRACTION JOINTS TO SEPERATE THE LARGE AGGREGATE IN THE TOP 6" OF THE WALL AT THE "V" NOTCHED GROOVE. JOINTS SHALL BE UNIFORMLY SPACED AT 10' TO 15' CENTERS.
- CONSTRUCTION JOINT: IF WALL IS TO BE POURED IN SECTIONS, USE 2-24", NO. 4 REINFORCING BARS EXTENDED 12" INTO EACH SECTION.
- 3. WHEN EXPOSED WALL HEIGHT IS LESS THAN 2 FEET, MAINTAIN 6" TOP DIMENSION AND REDUCE BASE TO MAINTAIN 1:5 BATTER ON BACK OF WALL.
- 4. AS ALTERNATIVE TO WEEPHOLES, USE CONTINUOUS 3-INCH DIAMETER PERFORATED PIPE WITH OUTLET TO APPROVED POINT OF DISPOSAL.



CITY OF KEIZER

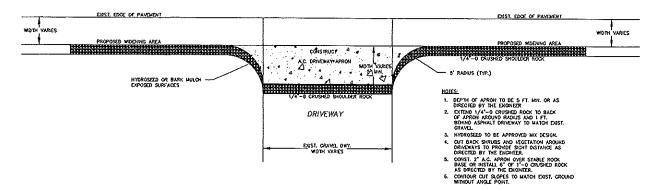
DEPARTMENT OF PUBLIC WORKS

RETAINING WALL 2'-0" MAXIMUM HEIGHT

DRAWN: S.W.P. DATE: 01-25-00

EXIST,

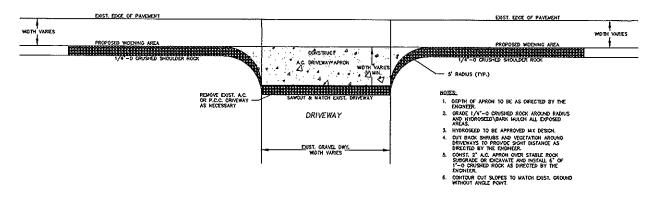
ROADWAY



GRAVEL DRIVEWAY APPROACH CONNECTION N.T.S.

EXIST.

ROADWAY



A.C.\P.C.C. DRIVEWAY APPROACH CONNECTION
N.T.S.

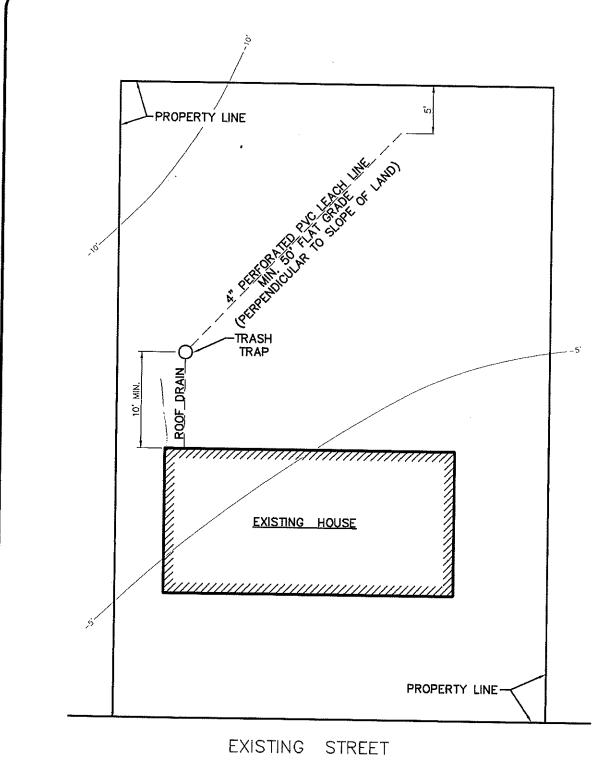


CITY OF KEIZER

DEPARTMENT OF PUBLIC WORKS

DRIVEWAY APPROACH (EXISTING)

DRAWN: S.W.P. DATE: 01-25-00

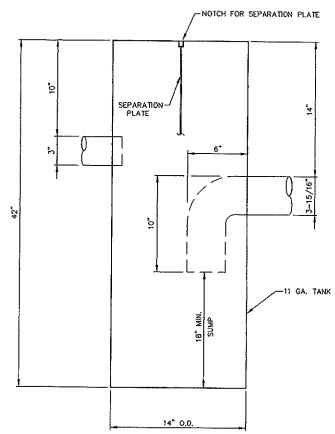


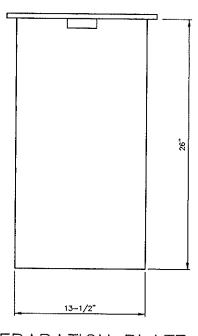


DEPARTMENT OF PUBLIC WORKS

STANDARD ROOF DRAIN LEACH LINE

DRAWN: T.A.K. DATE: 04-04-95





SEPARATION PLATE

<u>TANK</u>

NOTES:

- 1. SHOP DRAWINGS PROVIDED BY WELLIVER METAL PRODUCTS.
- 2. ALTERNATE LEACH LINE TRAPS MEETING UNIFORM PLUMBING CODE STANDARDS MAY BE USED, BUT MAINTAIN 18" MIN. SUMP.
- 3. SEE KEIZER STANDARD DETAIL ST-60 FOR LOCATION AND LEACH LINE STANDARD.



CITY OF KEIZER

DEPARTMENT OF PUBLIC WORKS

LEACH LINE TRAP

DRAWN: T.A.K. DATE: 04-04-95

EXIST. ROADWAY EXIST. EDGE OF PAVENENT EXIST. EDGE OF PAVELIDIT EUST, RIGHT OF WAY EXIST, RIGHT OF WAY 4" PERFORATED HOPE STORM ORAH W\4" PLUG 12" X 12" HOPE AREA ORAIN WITH 18" SUMP DRIVEWAY -6" TOP SOIL AMOCO 4545 FILTER FABRIC (OR APPROVED ALTERNATE) LAP 12" AT TOP 40000 40000 400 NATIVE BACKFILL 90% COMPACTION REQUIRED 2"-0 CLEAN DRAIN ROCK 12 PERFORATED PIPE-2 ROWS POINTING DOWN. 2 DUST. DROUMO 25" MIN. COVER TAKE CASE OURING THE INSTALLATION OF THE PIPE AND THE TRIDICH CONSTRUCTION HOT TO SURVE THE TRIDICH WALLS. CONSTRUCTION DURING ME! WARTHER MAY CAUSE THE TRENCH WALLS HOT TO FUNCTION AS DESIGNED. CONSTRUCT 4" PERFORATED HOPE STORM DRAIN \$ # 0.52% PERFORATED TRENCH BACKFILL PERFORATED PRIVATE AREA DRAIN DETAIL



CITY OF KEIZER

DEPARTMENT OF PUBLIC WORKS

PERFORATED AREA DRAIN (PRIVATE)

DRAWN: S.W.P. DA

DATE: 01-25-00