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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" - 22" - ASTM F879, 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 DRIEWAYS 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. RM 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. DIMENSIONS AND NOTES TAKE PRECEDENCE OVER GRAPHICAL REPRESENTATION.
RESIDENTIAL STREETS

SERVICE AREA
80 OR MORE DWELLING UNITS
50 OR MORE ADT OR
MORE THAN 320,000 SQ. FT.

10' P.U.E. 7' MIN. 34' STREET IMPROVEMENT 13' MAX. 10' P.U.E.

5' SIDewALK (CURB LINE) TYPE "A" CURB & GUTTER TYPE "A" CURB & GUTTER

40' RIGHT-OF-WAY (MIN.)
60' RIGHT-OF-WAY STANDARD

CUL DE SACS
MAX. LENGTH 800' OR
LESS THAN 450 ADT OR
LESS THAN 165,000 SQ. FT.

10' P.U.E. 5' MIN. VARIES 30',32',34'

5' SIDewALK (CURB LINE) TYPE "A" CURB & GUTTER TYPE "A" CURB & GUTTER

6' MAX. 10' P.U.E.

BULB CURB RADIUS = 36' MIN.
BULB R.O.W. RADIUS = 45' MIN.

44' RIGHT-OF-WAY (19 OR LESS DWELLING UNITS)
48' RIGHT-OF-WAY (20 - 45 DWELLING UNITS)

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.
3. SIDEWALKS SHALL BE OF THEIR FULL UNOBSERVED WIDTH AROUND SIGNS, MAILBOXES, UTILITY POLES, ETC. (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 ADT
OR 79,999 SQ. FT.

10' P.U.E.  5' MIN.  30' STREET IMPROVEMENT  10' MAX.  10' P.U.E.

5' SIDEWALK (Curb line)

TYPE "A" CURB & GUTTER

TYPE "A" CURB & GUTTER

5' SIDEWALK (Curb line)

44' RIGHT-OF-WAY (MIN.)

SERVICE AREA
20 - 79 DWELLING UNITS
OR 790 ADT OR 50,000
TO 310,000 SQ. FT.

10' P.U.E.  5' MIN.  30' STREET IMPROVEMENT  10' MAX.  10' P.U.E.

5' SIDEWALK (Curb line)

TYPE "A" CURB & GUTTER

TYPE "A" CURB & GUTTER

5' SIDEWALK (Curb line)

44' RIGHT-OF-WAY (MIN.)

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.

3. 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.

DEPARTMENT OF PUBLIC WORKS

CITY OF KEIZER

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

DRAWN: T.A.K.  DATE: 04-04-95
APPROVED: W.I.P.  NUMBER: ST-11
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.
5. 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.
NOTES:
1. DIMENSION FOR 50' RIGHT-OF-WAY (R/W)
2. CURB LINE SIDEWALKS ALLOWED ONLY ON CUL-DE-SAC STREETS OR WHERE ACCESSED 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

NOTE:
1. 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.

PROPERTY LINE SIDEWALK

DEPARTMENT OF PUBLIC WORKS

CITY OF KEIZER

STANDARD UTILITY LOCATIONS
RESIDENTIAL STREETS

DRAWN: T.A.K.       DATE: 04-05-95
APPROVED: W.I.P.    NUMBER: ST-13
NOTES:
1. REFLECTORIZED TAPE, CONFORM TO O.D.O.T. STANDARD SPECIFICATIONS, SEC. 62910.30
2. CONSTRUCT TWO (2) BARRICADES AT END OF ALL STREETS 25 FEET OR WIDER.
BLACK ON WHITE
REFLECTORIZED ENGINEERING
GRADE 3-M SCOTCHLITE OR
APPROVED EQUAL.

NO MOTOR
VEHICLES

OBR-10-11-18
30"X18"

3" PIPE PAINTED WHITE
3.5" PIPE SLEEVE
0.5" MIN.

HOLE SIZE BIG ENOUGH
FOR PADLOCK

REFLECTOR POST CONNECTION DETAIL

4"X4" TREATED WOOD

WELDED CLOSING PLATE

REFLECTOR BUTTONS BOTH SIDES OF
POST OR 3" SILVER REFLECTORIZED
ENGINEERING GRADE 3-M SCOTCHLITE
OR APPROVED EQUAL.

SEE CONNECTION DETAIL

4" P.C.C.

2"X4"X4" CLEAT

3'-4" 16" 3'-4"

8' SIDEWALK/BIKEWAY
8' R/W OR EASEMENT

DEPARTMENT OF PUBLIC WORKS

CITY OF KEIZER

BIKE PATH
ACCESS DETAIL

DRAWN: T.A.K. DATE: 04-04-95
APPROVED: W.I.P. NUMBER: ST-18
TYPE "A" CURB & GUTTER

NOTES:
1. CURBS & GUTTERS SHOWN MAY BE USED WITH EITHER A.C. OR P.C.C. PAVEMENTS.
2. TRANSITIONS FROM ONE TYPE CURB TO ANOTHER WILL BE DETAILED ON PROJECT PLANS AS
   NECESSARY.
3. "TEE-BAR" CONTRACTION JOINT TO BE INSTALLED EVERY 15' OF CURB.
4. 3300 P.S.I. CONCRETE TO BE USED FOR ALL CURBS.
5. CURB TO BE TYPE "A" CURB & GUTTER UNLESS TYPE "C" APPROVED BY CITY OF KEIZER PUBLIC
   WORKS DEPT.

*TRAFFIC ISLANDS & SPECIAL DESIGN SITUATIONS ONLY.

SECTION A-A

NORMAL CURB EXPOSURE

STD. HEIGHT CURB DROP CURB SECTION DEPRESSED CURB

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

TYPICAL DRIVEWAY TRANSITION

DEPARTMENT OF PUBLIC WORKS
CITY OF KEIZER
CURB & CURB/GUTTER SECTIONS

DRAWN: T.A.K. DATE: 04-04-95
APPROVED: W.I.P. NUMBER: ST-20
EXPANSION JOINT IN RADIUS WHERE SIDEWALK ABUTS CURB (NEW CONSTRUCTION). EXPANSION JOINT NOT REQUIRED WHERE RAMP AND CURB POURED MONOLITHIC AS IN RETROFIT RAMP CONSTRUCTION.

REFER TO STD. DWG. ST-22D
FOR RAMP DETAILS

PROPERTY LINE

ALIGN BUILDING DRAINS WITH CONTROL JOINT

EXPANSION JOINT
CONTROL JOINT - ALIGN WITH JOINTS IN CURB

LANDING

CURB REFER TO STD. DWG. ST-20

SLOPE 2H:1V MAX.
VERTICAL BANKS NOT PERMITTED. CITY OF KEIZER PW DEPT. TO DETERMINE SLOPES IN EASEMENT AREAS.

REFER TO NOTE 8

PROPERTY LINE

GRADE POINT

1.5%

4" PCC SIDEWALK W/ COMPACTED AGGREGATE BASE

CURB REFER TO STD. DWG. ST-20

SECTION "A-A"

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 RECEDED 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 TURNED AND SHINED (3") AFTER BROOMING.

7. 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.

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DEPARTMENT OF PUBLIC WORKS

CITY OF KEIZER

CURB LINE SIDEWALK

DRAWN: G.H.B. DATE: 12-21-16
APPROVED: W.I.P. NUMBER: ST-22A
EXPANSION JOINT IN RADIUS WHERE SIDEWALK ABUTS CURB (NEW CONSTRUCTION). EXPANSION JOINT NOT REQUIRED WHERE RAMP AND CURB POURED MONOLITHIC AS IN RETROFIT RAMP CONSTRUCTION.

REFER TO STD. DWG. ST-22D, E AND F FOR RAMP DETAILS

PROPERTY LINE

EXPANSION JOINT
CONTROL JOINT - ALIGN WITH JOINTS IN CURB

VARIABLE

LANDING

CURB REFER TO
STD. DWG. ST-22D

REFER TO NOTE 8

SLOPE 2H:1V MIN.
VERTICAL BANKS NOT PERMITTED, CITY OF KEIZER PW DEPT. TO DETERMINE SLOPES IN EASEMENT AREAS.

GRADE POINT

CURB REFER TO
STD. DWG. ST-22D

SECTION "A-A"

NOTES:

1. EXPANSION JOINTS 1/2" X 4" PREMOLDED JOINT FILLER MATERIAL AT LOCATIONS SHOWN, HEREOF AND ON STANDARD DRAWING NO. 22. MATERIAL SHALL BE RECEDED 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.

7. 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

CITY OF KEIZER

CURB-PROPERTY LINE SIDEWALK

DRAWN: G.H.B. DATE: 12-21-16
APPROVED: W.I.P. NUMBER: ST-22B
EXPANSION JOINT IN RADIUS WHERE SIDEWALK ABUTS CURB (NEW CONSTRUCTION). EXPANSION JOINT NOT REQUIRED WHERE RAMP AND CURB POURED MONOLITHIC AS IN RETROFIT RAMP CONSTRUCTION.

REFER TO STD. DWG. ST-22F FOR RAMP DETAILS

ALIGN BUILDING DRAINS WITH CONTROL JOINT

PROPERTY LINE

NOTE 9

PROPERTY LINE

NOTE 9

EXPANSION JOINT CONTROL JOINT - ALIGN WITH JOINTS IN CURB

REFER TO NOTE 8

PROPERTY LINE

NOTE 9

CURB REFER TO STD. DWG. ST-20

LANDING

CURB REFER TO STD. DWG. ST-20

NOTE 9

SLOPE 2H:1V MIN. VERTICAL BANKS NOT PERMITTED. CITY OF KEIZER PW DEPT. TO DETERMINE SLOPES IN EASEMENT AREAS.

SECTION “A-A”

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 BROMING EXCEPT AT RAMPS.

6. ALL EDGES SHALL BE TOOL ROUNDED AND SHINED (3") AFTER BROMING.

7. 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

9. TRANSITION LENGTHS ARE VARIABLE AND BASED ON STREET GRDES - 8.3% MAX. SLOPE OR 15' MAX. LENGTH.

CITY OF KEIZER

DEPARTMENT OF PUBLIC WORKS

PROPERTY LINE SIDEWALK

1962

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.

DEPARTMENT OF PUBLIC WORKS
CITY OF KEIZER
1992

CURB RAMP - PARALLEL TYPE A
DRAWN: G.H.B.   DATE: 12-21-16
APPROVED: W.I.P.   NUMBER: ST-22D
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.
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.
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.
SECTION B-B

NOTES:
1. DRIVEWAY WIDTH (W) WILL USUALLY APPEAR ON THE PROJECT PLANS. WHEN NOT SHOWN, THE WIDTH WILL BE AS FOLLOWS:
   RESIDENTIAL
   12' MIN. — 24' MAX.
   COMMERCIAL
   25' MAX.
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 SNIPE (7") 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
CITY OF KEIZER

DRAWD: G.H.B.        DATE: 08-10-2016
APPROVED: W.I.P.      NUMBER: ST-25
NOTES:
1. DRIVEWAY WIDTH (W) WILL USUALLY APPEAR ON THE PROJECT PLANS. WHEN NOT SHOWN, THE WIDTH WILL BE AS FOLLOWS:
   RESIDENTIAL
   12' MIN. – 24' MAX.
   COMMERCIAL
   35' MAX.
2. SIDEWALKS, INCLUDING THAT PORTION CROSSING THE DRIVEWAY, SHALL HAVE TRANSVERSE CONTRACTION JOINTS AT 6' 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 PRECURED 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
CITY OF KEIZER

DRIVEWAY APPROACH W/ CURB
LINE WALK OPTION #2

DRAWN: G.H.B.       DATE: 08-10-2016
APPROVED: W.I.P.     NUMBER: ST-26
NOTES:
1. DRIVEWAY WIDTH (W) WILL USUALLY APPEAR ON THE PROJECT PLANS. WHEN NOT SHOWN, THE WIDTH WILL BE AS FOLLOWS:
   RESIDENTIAL: 12' MIN. - 24' MAX.
   COMMERCIAL: 18' MIN. - 36' MAX.
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 (5°) AFTER BROOMING.
3. WHEN EXISTING DRIVEWAY CANNOT BE MATCHED TO NEW DRIVEWAY WITHIN SLOPE LIMITATIONS SHOWN, ADJUST EXISTING DRIVEWAY - NOT THE CURB, APPROACH OR SIDEWALK.
4. PROVIDE PRENOLDED 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.
Curb ramp, landing, pass-through, or walkway

Direction of travel
(see note 3)

Detectable warning surface per ADA standards

2'-0" min.

Width of curb ramp, landing, pass-through, or walkway

Curb or curb and gutter

Detectable warning surface detail

Section

<table>
<thead>
<tr>
<th></th>
<th>MIN</th>
<th>MAX</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>1.60&quot;</td>
<td>2.40&quot;</td>
</tr>
<tr>
<td>B</td>
<td>0.60&quot;</td>
<td>0.60&quot;</td>
</tr>
<tr>
<td>C</td>
<td>0.45&quot;</td>
<td>0.90&quot;</td>
</tr>
<tr>
<td>D</td>
<td>0.50&quot;</td>
<td>1.40&quot;</td>
</tr>
<tr>
<td>E</td>
<td>0.20&quot;</td>
<td>0.20&quot;</td>
</tr>
</tbody>
</table>

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.
2. 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
NOTES:
1. PIPE(S) CAN BE PLACED IN ANY WALL
2. ALL CONCRETE TO BE 3300 P.S.I.
3. 4" DRAINS TO BE P.V.C. PIPE.
4. SEE DWG. ST-33 FOR C.B. FRAME & GRATES.
5. INSTALL ECCENTRIC REDUCER FROM 6" TEE-WYE TO STORM DRAIN PIPE.
   FOR STORM DRAIN PIPE SIZE, LOCATION, 
   & INVERT ELEVATION SEE PROJECT PLANS.

SECTION A-A

PLAN

WARP PAYNG AS SHOWN TO FORM LOCAL DEPRESSION

DEPARTMENT OF PUBLIC WORKS

CITY OF KEIZER

TYPE 1
CATCH BASIN

DRAWN: T.A.K. DATE: 04-04-95
APPROVED: W.I.P. NUMBER: ST-30
Station shown on plans is to get of C.B. exact location to be determined in field.

Curb opening detail

Warp paving as shown to form local depression (depth 1")

Note: Pipe(s) can be placed in any wall. Max. pipe size = 18"

Plan

See detail ST-33 grate & frame details

(3) #4 Bars @ 6" C.C. X 4½-6" long

#4 @ 10" 2½-2½" long

4" Drain

6" Female Adapter w/ threaded plug (removable)

5" Eccentric Reducer

Discharge

6" Sleeve D3024 length as required for push on gasket fitting each side

6" Tee-Wye (removable)

Section A-A

Notes:
1. All concrete shall be class 3300 Ps.
2. Drains shall be 4-inch P.V.C. pipe.
3. For outlet pipe size, location, and invert elevation see project plans.
4. See DWG. ST-33 for C.B. frame & grates.
5. Install eccentric reducer from 6" tee-wye to storm drain pipe. For pipe size, location, and invert elevation see project plans.

Section B-B

City of Keizer

Department of Public Works

Type 2 Catch Basin

Drawn: T.A.K. Date: 04-04-95

Approved: W.I.P. Number: ST-31
NOTES:
1. ALL CONCRETE SHALL BE CLASS 3000 PSI.
2. DRAINS SHALL BE 4-INCH CONC. DRAIN TILE.
3. FOR OUTLET PIPE SIZE, LOCATION, AND INVERT ELEVATION SEE PROJECT PLANS.

DEPARTMENT OF PUBLIC WORKS
CITY OF KEIZER

TYPE 3
CATCH BASIN

DRAWN: T.A.K.  DATE: 04-04-95
APPROVED: W.I.P.  NUMBER: ST-32
Style D-1 Grate

GRIND SMOOTH FINISH ON BEARING SURFACES

TYPE A GRATE
1-3/8" CLEAR SPACING

DIRECTIONAL FLOW GRATE

CAST IRON / CAST STEEL GRATES

GRIND SMOOTH FINISH ON BEARING SURFACES

CAST IRON / CAST STEEL GRATE FRAMES

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.

DEPARTMENT OF PUBLIC WORKS

CITY OF KEIZER

1982

CATCH BASIN FRAMES & GRATES

DRAWN: T.A.K. DATE: 04-04-95
APPROVED: W.I.P. NUMBER: ST-33
OFFSET M.H. COVER TO PUT STEPS OVER CONC.

LATERAL CONNECTION WHERE SHOWN ON PLANS (TYP.) MATCH CROWN ELEV. OF LARGER OUTFLOW PIPE.

GROUT
SET FRAME IN MORTAR

REINFORCED CONCRETE MANHOLE SECTIONS ASTM 476

BOTTOM STEP 16" MAX. HEIGHT FROM LEDGE

SEE TABLE FOR DIA.
SEE TABLE

6" GRAVEL BEDDING
L8" MIN.

MAKE SURFACE SMOOTH

PRECAST CONCRETE EXTENSION RINGS AS REQUIRED, MIN. HEIGHT 2", MAX. HEIGHT 18".

-12" MAX. UNIFORM SPACING

PRECAST OFF-SET CONE

STANDARD MANHOLE FRAME & COVER (STD. DWG. ST-45)

STEP DETAIL

NOTES:
1. ALL CONNECTING PIPES SHALL HAVE A FLEXIBLE JOINT WITHIN 18" OF MANHOLE WALL.
2. 18" MINIMUM SUMP REQUIRED.
3. GROUT ALL JOINTS (KEY LOCK ONLY)
4. PLYWOOD FORM ALL BASES

<table>
<thead>
<tr>
<th>PIPE SIZE</th>
<th>MANHOLE DIAMETER</th>
<th>WALL THICKNESS</th>
</tr>
</thead>
<tbody>
<tr>
<td>21&quot;-21.5&quot;</td>
<td>48&quot;</td>
<td>5&quot;</td>
</tr>
<tr>
<td>24&quot;-30&quot;</td>
<td>60&quot;</td>
<td>6&quot;</td>
</tr>
<tr>
<td>36&quot;-42&quot;</td>
<td>72&quot;</td>
<td>7&quot;</td>
</tr>
<tr>
<td>48&quot;-54&quot;</td>
<td>84&quot;</td>
<td>8&quot;</td>
</tr>
</tbody>
</table>

DEPARTMENT OF PUBLIC WORKS
CITY OF KEIZER

STANDARD MANHOLE

DRAWN: T.A.K. DATE: 04-04-95
APPROVED: W.I.P. NUMBER: ST-40
LATERAL CONNECTION
WHERE SHOWN ON PLANS (TYP)
MATCH CROWN ELEV.
OF LARGER OUTFLOW PIPE.

OFFSET M.H. COVER TO
PUT STEPS OVER CONC.

STD. MANHOLE FRAME
& COVER (STD. DWG. ST-45)

SET IN MORTAR

SURFACE OF STREET

GROUT

MIN. 8" REINFORCED

SEE STEP DETAIL
12" MAX. UNIFORM SPACING

SEE TABLE
FOR DIA.

SEE TABLE

BOTTOM STEP 16"
MAX. HEIGHT FROM LEDGE

REINFORCED CONCRETE
MANHOLE BARREL SECTIONS
ASTM 476

1-1/2"

2-1/2"

RUBBER BOOT
SEE NOTE 1

6" GRAVEL BEDDING
L-8" MIN.

MAKE SURFACE SMOOTH

LANE P-14850 POLYPROPYLENE
MANHOLE STEPS, OR APPROVED
EQUAL.

STEP DETAIL

NOTES:
1. ALL CONNECTING PIPES SHALL HAVE A FLEXIBLE
   JOINT WITHIN 18" OF MANHOLE WALL.
2. 18" MINIMUM SUMP REQUIRED.
3. GROUT ALL JOINTS (KEY LOCK ONLY)
4. PLYWOOD FORM ALL BASES
5. APPROVAL FROM PUBLIC WORKS DEPT.
   REQUIRED BEFORE INSTALLATION.

<table>
<thead>
<tr>
<th>PIPE SIZE</th>
<th>MANHOLE DIAMETER</th>
<th>WALL THICKNESS</th>
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<tr>
<td>≤2&quot;</td>
<td>48&quot;</td>
<td>5&quot;</td>
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<tr>
<td>24&quot; - 30&quot;</td>
<td>60&quot;</td>
<td>5&quot;</td>
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<td>36&quot; - 42&quot;</td>
<td>72&quot;</td>
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<tr>
<td>48&quot; - 54&quot;</td>
<td>84&quot;</td>
<td>8&quot;</td>
</tr>
</tbody>
</table>

DEPARTMENT OF PUBLIC WORKS
CITY OF KEIZER

ALTERNATE DIAMETER MANHOLE

DRAWN: T.A.K.  DATE: 04-04-95
APPROVED: W.I.P.  NUMBER: ST-41
NOTES:

1. SPECIAL EXCEPTION DRAWINGS ST-43 & ST-44 FOR SHALLOW MANHOLES MAY BE USED AS APPROVED BY CITY OF KEIZER PUBLIC WORKS.

2. SHALLOW MANHOLES TO BE USED FOR DEPTHS LESS THAN 4 FEET.

NOTE: MORTAR ALL JOINTS (KEY-LOCK ONLY).

DEPARTMENT OF PUBLIC WORKS

CITY OF KEIZER

STANDARD SHALLOW MANHOLE

DRAWN: T.A.K. DATE: 04-04-95
APPROVED: W.I.P. NUMBER: ST-42
LANE P-14850 POLYPROPYLENE MANHOLE STEPS, OR APPROVED EQUAL.

STEP DETAIL

STD. MANHOLE FRAME & COVER

PRECAST OFFSET CONE

12" MAX UNIFORM SPACING

KEY LOCK JOINT

4'-0" DIA.

BOTTOM STEP 16" MAX. HEIGHT FROM LEDGE

2'-1/2"

2'-1/2"

18" MIN. GAP

6" MIN.

NOTE: PLYWOOD FORM ALL MANHOLE BASES

6" GRAVEL BEDDING

8.5"
PLAN VIEW

SECTION A-A

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
CAST IN PLACE FOUNDATION MAY BE SQUARE OR ROUND.

LATERAL CONNECTION WHERE SHOWN ON PLANS (TYP) MATCH CROWN ELEV. OF LARGER OUTFLOW PIPE.

OFFSET M.H. COVER TO PUT STEPS OVER CONC.

SET IN MORTAR & COVER (STD. DWG. ST-45)

MIN. 8" REINFORCED

SURFACE OF STREET

MIN. 6" GROUT

GROUT

SEE STEP DETAIL

12" MAX. UNIFORM SPACING

6'-0" DIA.

6" BAND BRACKETS

MIN. 6" GRAVEL BEDDING

24" REMOVABLE PLUG W/ DIA. CRIFICE

18" MIN. SUMP

MAKE SURFACE SMOOTH

DIAM. OF TEE & OVERFLOW RISER TO MATCH DIAM. OF OUTLET PIPE

1. ALL CONNECTING PIPES SHALL HAVE A FLEXIBLE JOINT WITHIN 18" OF MANHOLE WALL
2. 18" MINIMUM SUMP REQUIRED
3. GROUT ALL JOINTS (KEY-LOCK ONLY)
4. PLYWOOD FORM ALL MANHOLE BASES

DEPARTMENT OF PUBLIC WORKS

CITY OF KEIZER

1982

CONTROL STRUCTURE

DRAWN: S.W.P. DATE: 01-25-00
APPROVED: W.I.P. NUMBER: ST-47
AMOCO 4545 FILTER FABRIC (OR APPROVED ALTERNATE) LAP 12" AT TOP

PAY LIMITS

PIPE O.D. + 18"

1'-0 CRUSHED ROCK, 95% COMPACTION REQUIRED

6" MIN.

PERFORATED PIPE 2 ROWS POINTING DOWN.

PAVED AREA DETAIL

MOUND UNLESS OTHERWISE DIRECTED BY ENGINEER

AMOCO 4545 FILTER FABRIC (OR APPROVED ALTERNATE) LAP 12" AT TOP

PAY LIMITS

PIPE O.D. + 18"

1'-0 CLEAN DRAIN ROCK (OR AS APPROVED BY CITY)

PERFORATED PIPE 2 ROWS POINTING DOWN.

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.

DEPARTMENT OF PUBLIC WORKS
CITY OF KEIZER

PERFORATED PIPE TRENCH DETAILS

DRAWN: T.A.K. DATE: 04-04-95
APPROVED: W.I.P. NUMBER: ST-52
NATIVE BACKFILL  GRANULAR BACKFILL  CONTROLLED DENSITY BACKFILL

IF REQUIRED, POLYWRAP PIPE IN ACCORDANCE WITH POLYWRAP DETAILS

TRENCH BACKFILL DETAIL

D = OUTSIDE DIAMETER
d = DEPTH OF BEDDING MATERIAL BELOW PIPE

<table>
<thead>
<tr>
<th>D</th>
<th>d</th>
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<tbody>
<tr>
<td>12&quot; &amp; SMALLER</td>
<td>6&quot;</td>
</tr>
<tr>
<td>15&quot; - 36&quot;</td>
<td>8&quot;</td>
</tr>
<tr>
<td>42&quot; &amp; LARGER</td>
<td>10&quot;</td>
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</table>

NOTE:
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

CITY OF KEIZER

TRENCH BACKFILL & PIPE BEDDING

DRAWN: J.M.M.  DATE: 01-25-00
APPROVED: W.I.P.  NUMBER: ST-55
TYPICAL PATCH FOR FLEXIBLE PAVEMENT

-N.T.S.-

NOTES:

1. 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:

<table>
<thead>
<tr>
<th>STREET CLASSIFICATION</th>
<th>ARTERIAL</th>
<th>COLLECTOR</th>
<th>LOCAL</th>
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</thead>
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<tr>
<td>PORTLAND CEMENT CONCRETE (P.C.C.)</td>
<td>8&quot; P.C.C.</td>
<td>7&quot; P.C.C.</td>
<td>6&quot; P.C.C.</td>
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<tr>
<td>H.M.A.C.</td>
<td>6&quot; H.M.A.C.</td>
<td>6&quot; H.M.A.C.</td>
<td>4&quot; H.M.A.C.</td>
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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. 

DEPARTMENT OF PUBLIC WORKS
CITY OF KEIZER
CONCRETE APPROACH FOR PUBLIC/Private SEPERATION
DRAWN: S.W.P.  DATE: 01-25-00
APPROVED: W.I.P.  NUMBER: ST-57
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:
2. 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.
**Gravel Driveway Approach Connection**

1. Depth of apron to be as directed by the Engineer.
2. Grade 1" x 1" gravel apron around berm and side of apron where exposed as directed by the Engineer.
3. Apron to be approved mix design.
4. Cut back berm and vegetation around apron area where exposed as directed by the Engineer.
5. Rim of apron to be crushed rock base of 2" minimum thickness.
6. Contour cut slopes to match dirt ground without grade point.

---

**A.C. P.C.C. Driveway Approach Connection**

1. Depth of apron to be as directed by the Engineer.
2. Grade 1" x 1" crushed rock around berm and side of apron where exposed as directed by the Engineer.
3. Apron to be approved mix design.
4. Cut back berm and vegetation around apron area where exposed as directed by the Engineer.
5. Rim of apron to be crushed rock base of 2" minimum thickness.
6. Contour cut slopes to match dirt ground without grade point.
NOTES:
1. SHOP DRAWINGS PROVIDED BY WELIVER 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.