

Marion County Public Works

Work in Right-of-Way

Special Provisions

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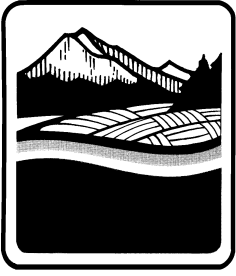
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Marion County
OREGON

Public Works Land Development Engineering & Permits
5155 Silverton Rd NE
Salem, OR 97305
Ph. (503) 584-7714; Fax (503) 373-4418
<http://co.marion.or.us/PW/Engineering/>

Brush
Clearing/Tree
Trimming

BRUSH CLEARING/TREE TRIMMING SPECIAL PROVISIONS

1. The applicant/permittee shall obtain any other consent or permits that may be necessary to accomplish the purpose set forth by this permit.
2. The work authorized under this permit shall be performed to the satisfaction of the County inspector.
3. This permit is not to be construed as an authorization for the use of herbicides.
4. All cutting and pruning work shall conform to recognize good tree surgery practices. The permittee shall notify the county inspector before removing any tree six (6) inches or larger in diameter.
5. Pruning shall preserve the natural character and shape of the tree.
6. The work shall be done by experienced workers under the supervision of a qualified foreperson of the permittee who is familiar with the identity of the roadside trees and vegetation within the permitted work area.
7. The adjacent property owner shall be given the option of receiving the cut tree wood over six inches in diameter. If so opted, the cut wood shall be set on the adjacent private property out of the right-of-way. All other cut wood, unless processed by a wood chipper, shall be loaded immediately on a vehicle and disposed of off the right-of-way. Disposal of cut wood and wood chips shall conform with all laws and regulations of local and state agencies.
8. Properly dispose of brush (processing through a chipper) that is cut outside of riparian areas. Deposit excess material above the 100-year flood plain, and not within 75' of a stream, wetland, or riparian area (including ditches).
9. Refuel and repair of equipment must be at least 25' from waterways.
10. Maintain shade trees along water bodies when possible.
11. Trees providing shade or bank stabilization within 50' of a water body that are removed should be replaced at a 2:1 ratio within the same watershed.
12. Any portion of the roadway including the surface, shoulder, or ditch, which is disturbed or damaged shall be restore to as good as or better condition as directed by the County inspector. Asphalt road surface repairs shall not be done until the County inspector gives specific directions.



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Gravel Road
Crossing

GRAVEL ROAD CROSSING SPECIAL PROVISIONS

1. Identification Sign Requirements: See Special Provision attached. Sign(s) must be in place before starting work.
2. Traffic Control: See #2 of General Provisions. Keep at least one lane open at all times. Any work in a traffic lane requires certified flaggers. Minimum signage - one warning sign for each direction of traffic.
3. Allowable Hours of Operation: Daylight with good visibility.
4. After Hours Site Safety: No open trenches or pits.
5. Trenching: Remove all excavations from right-of-way.
6. Backfill: Roadway and shoulder use 1" minus crushed rock - compacted. Use Native elsewhere.
7. Site Restoration: Same or better than found.
8. Compact backfill mechanically. Provide sufficient fine material for smooth graded surface. Re-grade crossing as needed and, at minimum:
 - 1) The following day
 - 2) One week later
 - 3) Three weeks later
 - 4) Six weeks later



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Guide Sign

GUIDE SIGN SPECIAL PROVISIONS

1. Identification Sign Requirements: See Special Provision attached. Sign(s) must be in place before starting work.
2. All signs and sign placements will be done by Marion County. All costs related to the permit, issuance, inspection, and installation, will be borne by the applicant on a "Private Work Order" basis.
3. All physical characteristics of the sign(s), namely size, material, shape, color, and legend will be determined by a representative of the Director of Public Works (hereafter referred to as the Director), guided by the "Manual on Uniform Traffic Control Devices" as published by the Federal Highway Administration and adopted by the Oregon Department of Transportation. All guide signs shall be approved by a representative of the Director prior to installation.
4. The number of signs allowed for each facility or feature will be limited to two (2). Up to four (4) signs may be approved under extraordinary circumstances.
5. The sign(s) will be located within nine (9) miles of the facility or feature unless circumstances should dictate otherwise. In all cases, the representative of the Director will designate the sign(s) location.
6. The sign(s) may be removed at any time, by a representative of the Director, if justified conditions, such as traffic safety, road improvements, etc. warrant such action, or if permit requirements are not met or maintained. In the event the sign(s) is/are removed, the applicant shall not demand or be entitled to any damages or compensation on account of the removal of any sign(s) authorized by this permit.
7. If the existing sign(s) become(s) unusable for any reason such as vandalism or traffic accident, it will not be replaced at County expense. The installation will be subject to review and the applicant will be required to bear the cost of replacing the sign(s) if they choose to have them replaced.
8. Applicant shall not rely on Marion County Public Works to notify them in the event of a missing or damaged sign. An attempt will be made to do so, but only as a matter of courtesy.
9. This agreement and the covenants herein contained shall be binding upon the successors, heirs, representatives, and assigns of the applicant.
10. The decision of the Director of Public Works is a final decision.



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Identification Sign
Requirement

IDENTIFICATION SIGN REQUIREMENT SPECIAL PROVISIONS

Special Provisions:

1. This provision shall apply to all agencies, utilities, corporations (public or private), or individuals engaging in work activities in public rights-of-ways which are under the jurisdiction of Marion County, Oregon. This provision applies to all work activities regardless of whether they are considered to be routine maintenance of existing facilities or are being performed under a separate permit to construct new facilities.
2. The entity for whom the work is being performed, or subcontractor acting of behalf of this entity, shall display signs stating the entity's or contractor's name and phone number where questions may be directed. The signs shall be a minimum of 2 feet by 2 feet with 2-inch high BLUE letters on a white background conforming to the following outline:

PROJECT BY
John J. Smith Contracting
Phone 123-4567

The above-mentioned sign shall be required for any activity, which will occupy the same general location for a duration of one hour or more. These activities will include Long-Term, Intermediate-Term, and Short-Term Stationary work zones as defined by the current edition of PART VI of the MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).

3. The signs may be posted mounted or mounted on a Type II barricade (minimum 2 feet wide by 3 feet high). The signs shall be located in a prominent location adjacent to the work and shall be visible to both directions of oncoming traffic.
4. Logo's or lettering on the side of fleet or construction vehicles stating the contractor's name and phone number will not be permitted as a substitute for the signs required herein.
5. Where prime contractors, developers or owners have posted signs, which meet the requirements contained herein, subcontractors will not be required to post additional signs.
6. The signs shall be at the project site at all times during the course of the project. Absence of the signs will be grounds for suspension of all work covered under the permit.

7. Sign suppliers may be found in the yellow pages under “Traffic Signs, Signals & Equipment”, “Barricades”, and “Signs”.
8. The purpose of this provision is to positively identify for the public, who may have questions or concerns, those working in the public right-of-way.
9. Property owners performing their own work adjacent to their owner-occupied property are exempt from the above requirements.



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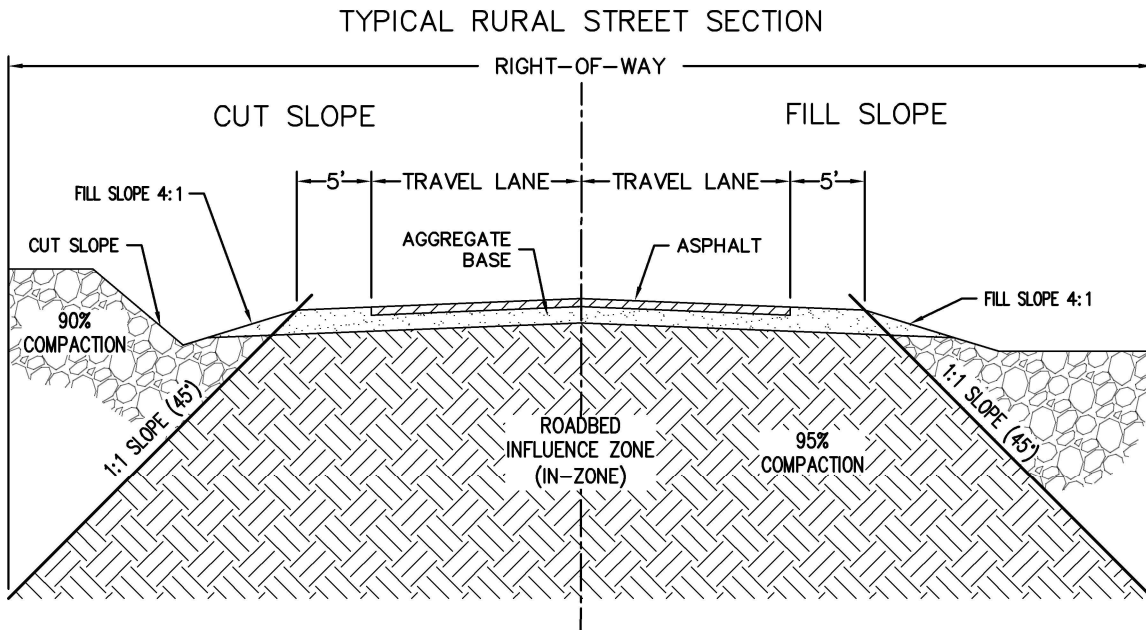
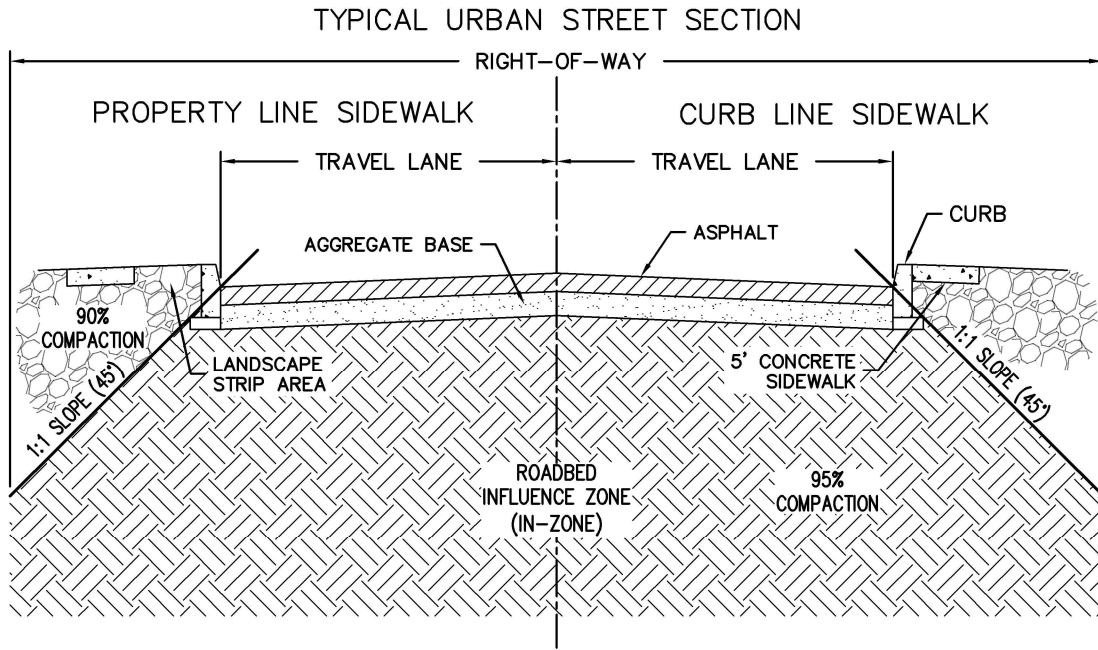
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Underground
Work in the
Roadbed
Influence Zone
(In-Zone)

UNDERGROUND WORK IN THE ROADBED INFLUENCE ZONE (IN-ZONE) SPECIAL PROVISIONS

1. No installations using plowing are allowed in the In-Zone. Unless otherwise specified, all permitted trenching in the In-Zone shall be backfilled with 1" minus crushed rock aggregate at 95% compaction using the T-99 test. Certified compaction test(s) may be required.
2. Permitted work outside the In-Zone shall be clean native soil at 90% compaction unless otherwise specified.
3. No portions of bore pits are allowed in the In-Zone unless specifically permitted. (Permitted bore pits encroaching into the In-Zone shall be backfilled with non-compressible backfill (CDF) unless otherwise specified.)
4. Potholing in the In-Zone shall be done only with water jet/vacuum excavation with a 10" maximum cored hole. Restoration shall be non-compressible backfill (CDF) and 6" of asphalt.
5. Any recent pavement damage found at the completion of the project shall be assumed as project damage unless called out by the applicant or contractor before the start of work as "prior damage". Noted prior damage may be emailed to MCLDEP@co.marion.or.us.
6. Pavement damaged by the project shall be restored with a minimum of a 6" "T" asphalt patch and an asphalt inlay per Marion County Blanket Inlay requirements (See Attachment D).
7. Repairs on damaged pavement or drainage systems require review and approval of the inspector before the restoration.
8. Any disturbed Marion County drainage pipe shall be removed with soils excavated to firm, native soil. Reinstallation shall include bedding and backfilling with 1" minus at 95%. Inlets or outlets which are disturbed may require grouted riprap as directed by the County Engineer.
9. Disturbed ditches with grades of 5% or more may require riprap as directed by the County Engineer.
10. All disturbed ditches and slopes shall be seeded and mulched before expected rain as directed by the County Engineer.
11. Any equipment causing pavement damage shall immediately cease work and be removed from the road. Marked pavement may require blanket inlay restoration as directed by the County Engineer.



NOTES:

1. SEE SPECIAL PROVISION 'UNDERGROUND WORK IN THE ROADBED INFLUENCE ZONE (IN-ZONE)' FOR ADDITIONAL SPECIFICATIONS

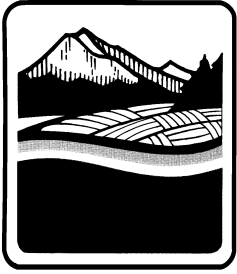
MARION COUNTY DEPARTMENT OF PUBLIC WORKS



ROADBED INFLUENCE ZONE (IN-ZONE)

REVISIONS		
DATE:	DESCRIPTION OF CHANGES:	BY:
03/11/22	MODIFIED FORMAT AND APPEARANCE	HS

CREATION DATE: 02/02/2001	REVISION DATE: 04/08/2022	SCALE: N.T.S	SHEET: 1 OF 1
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Irrigation
Crossing

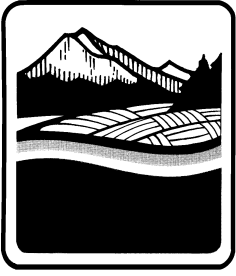
IRRIGATION CROSSING SPECIAL PROVISIONS

Special Provisions:

1. Identification Sign Requirements: Must be in place before starting work. See Special Provision - IDENTIFICATION SIGN REQUIREMENT.
2. Traffic Control: See #2 of General Provisions. Keep at least one lane open at all times. Any work in a traffic lane requires certified flaggers. Minimum signage - one warning sign for each direction of traffic.
3. Allowable Hours of Operation: Daylight with good visibility
4. After Hours Site Safety: No open pits or trenches within 10' of pavement. Other trenches or pits to be barricaded off.
5. Boring, Excavations, Trenching: Bore pits to be at least 6' off edge of pavement.
6. Backfill: Native material for bore pit and trenches.
7. Pavement Cuts & Pavement Restoration: No cuts approved.
8. Site Restoration: Same or better than found. Disturbed shoulders to have 1" minus crushed rock.
9. Follow 1) "Private Utility Crossing" and 2) "Road Push/Bore" Special Provisions.
10. If the irrigation crossing is no longer needed, or if the County requires its use to be discontinued, the line shall be removed and the casing decommissioned per the special provision.

See Also:

Private Utility Crossing Special Provision
Road Push/Bore Special Provision



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Application of
Lignin Sulfonate

APPLICATION OF LIGNIN SULFONATE ON COUNTY ROADS SPECIAL PROVISIONS

Special Provisions:

1. This provision shall apply to all Marion County approved contractors, agencies, or individuals engaging in this activity in public rights-of-way, which are under the jurisdiction of Marion County, Oregon.
2. All of the Lignin product shall be labeled as a dust inhibitor. The contractor applying this product must furnish a chemical analysis of the material showing proof that this product will be capable of performing as a dust inhibitor, with a pH not less than 4.0. The solids shall be 50% plus or minus 2%. The percent of Lignin Sulfonate shall not be less than 50%.
3. All equipment, tools and machines used in the performance of this work shall be maintained in satisfactory working order at all times. Equipment shall be capable of distributing product both on declines as well as inclines. Equipment shall also be capable of calibrated pressurized application. Descriptive information on the mixing and applying equipment to be used shall be submitted to the proper county representative.
4. Lignin application shall be performed in two (2) applications, using equipment as previously stated at a rate of 0.60 Gal./Sq.Yd. of Lignin Sulfonate per application, for a finish total of 1.2 Gal./Sq. Yd. The solution shall be a 50/50 mix, made up of one (1) part water and one (1) part ammonium lignin sulfonate mixed in a delivery tank.
5. Some sections of roads that are to have the lignin applied may be required to be pre-watered within one (1) hour of the lignin application. The water should be applied at a rate so as to break the surface tension of the dust. County representative will make watering call after receiving permit from property owners.
6. All surface preparation of roads that are to have the lignin applied on will be done by Marion County Public Works. They will be graded at least two (2) times. Both preparatory and final grading for the lignin application will be performed by Marion County Public Works, according to the approved schedule of work that will be submitted by the contractor. Application requesting grading after July 1 will be charged \$130 per hour.

7. Each contractor will submit a planned work schedule by no later than two (2) weeks in advance of any planned lignin application on a Marion County road. The schedule shall show the daily-proposed order of work, as well as the time required for completion of the lignin application. This working schedule shall take into account the passage or handling of traffic with the least practical interference. The contractor shall notify the county 48 hours prior to commencing work on a project.
8. Marion County makes no guarantee whatsoever as to the products continued effectiveness after application on the road. All Marion County maintained roads will be graded after the lignin has lost its effectiveness. All disputed work regarding the performance of the lignin upon application and thereafter, shall be between the property owner and the lignin contractor.
9. No lignin shall be placed on any Marion County maintained road surface before or after designated dates without written permission from a Marion County representative. For current dates contact County Dispatch at 503-588-5304.



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Monitoring Wells
in the Right-of-
Way

MONITORING WELLS IN THE RIGHT-OF-WAY SPECIAL PROVISIONS

General

1. If the decommissioning of the well(s) is scheduled at least a year from the permit approval, an Annual Blanket Permit shall be required.
2. When a permit has expired or is lapsed, the County may remove the well(s) and restore the right-of-way at the owner's expense.
3. **ATTENTION:** Oregon law requires you to follow rules adopted by the Oregon Utility Notification Center. Those rules are set forth in OAR 952-001-0010 through 952-001-0090. You may obtain copies of the rules by calling the center. (Note: the telephone number for the Oregon Utility Notification Center is 503-232-1987).
4. Well(s) shall be located in or behind sidewalks, or in gravel shoulders or farther out to the right-of-way line. Well(s) shall not be located in the paved road or bike lanes.
5. Follow approved traffic control plans. Any travel lane impact shall require flaggers.
6. Follow the applicable county Utility Construction General Provisions.
7. A project schedule shall be supplied to the County for all three phases of the project with the application.
8. Members of the crew, including the equipment operator, shall wear high visibility apparel labeled as ANSI 107-1999, or later, while in the public right-of-way. Truck drivers need to wear safety apparel if outside the truck cab. Company visitors and representatives must wear safety apparel when outside vehicles in the right-of-way.

Construction Phase

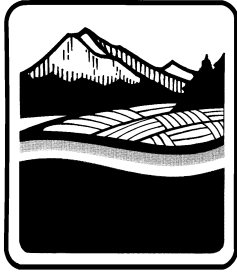
1. Follow approved traffic control plan.
2. Any well holes without covers shall be steel plated at night.
3. All excavated materials shall be removed from the right-of-way.
4. Wells permitted in the gravel shoulders shall have covers set 1' below gravel level to allow for grading.
5. Disturbed shoulders shall have fresh shoulder rock to match existing shoulder level.

Monitoring or Idle Phase

1. Follow approved traffic control plan.
2. The County shall be notified prior to the start of work by email to MCLDEP@co.marion.or.us. See Right-of-Way Permit General Provisions.

Decommissioning (abandonment) Phase

1. Follow approved traffic control plan.
2. Wells with casings shall have the top 4' of well casing removed.
3. The hole shall be backfilled with hydrated grout slurry of sodium bentonite. Wells with temporary casing shall have the material placed as the casing is withdrawn.
4. The slurry shall be topped with 24" of 1" minus compacted crushed rock.
5. Match existing pavement (6" minimum) of compacted HMA Level 2 asphalt or polymer-modified cold mix left ½" high.



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Non-
Compressible
Backfill
(Controlled
Density Fill – CDF)

NON-COMPRESSIBLE BACKFILL (CDF - CONTROLLED DENSITY FILL) SPECIAL PROVISIONS & DETAIL

Material:

Non-compressible backfill (also known as Controlled Density Fill or CDF) is a mixture of sand, cementous materials, water, and in some instances admixtures. (NO AGGREGATE.)

Use:

Backfilling pipe and utility trenches in paved areas and/or shoulder of roads in Marion County and as directed by the County Engineer.

Mix:

Proportioned such that the 28-day compressive strength varies from **100-200 PSI** for machine-excavatable mix designs. 1/2 to 1 sack of 90 pound cement per yard of sand. The CDF shall be capable of supporting traffic within 24 hours and supporting paving operations within 48 hours, regardless of weather conditions, temperature, or moisture content of the soil where placed. The CDF shall attain a bearing capacity of 500 PSI, using the penetration resistance test according to ASTM C403. Flowability shall be capable of filling all voids.

Additives such as calcium (1% or 2%) and/or hot water to achieve the above set-up are acceptable.

Placement:

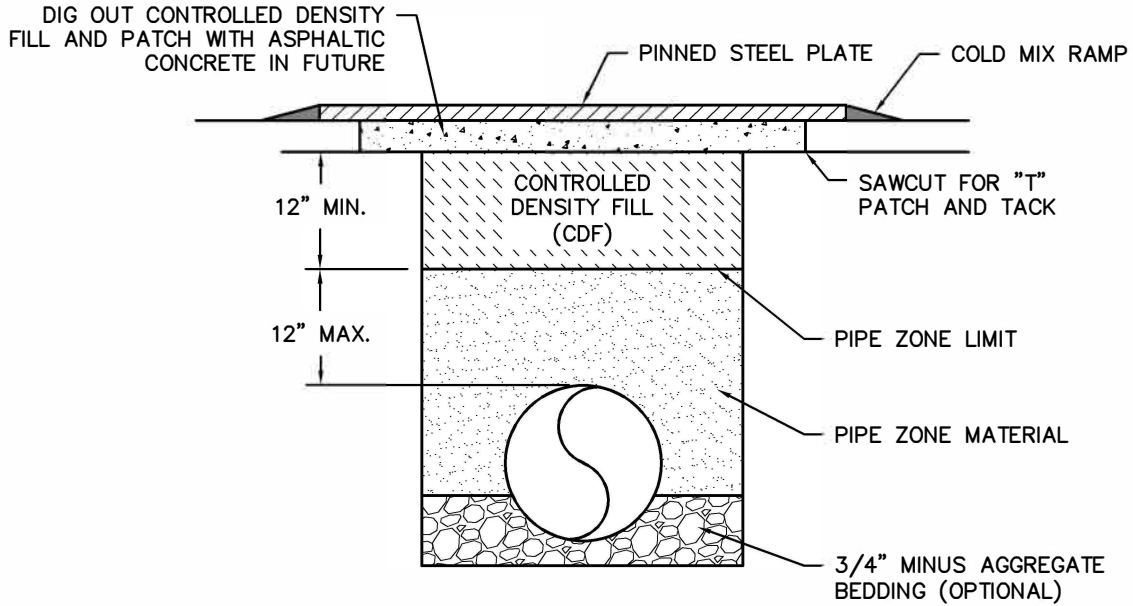
Pour at slump necessary for required results. Do not use when air temperature is below 40° Fahrenheit. For sand cement slurry, rod or vibrate to fill voids.

Minimum depth of CDF shall be 12" from bottom of asphaltic concrete (AC). If bedding is used, pipe zone material may also be 3/4" minus aggregate, placed to a maximum of 12" above top of pipe, but never to a depth that will reduce the thickness of CDF to less than 12".

Place backfill up to level of AC surface or to bottom of AC if topping with cold patch or paving when steel plate is removed; It may be left flush as a substitute for cold patch. Plate overnight before opening to traffic. To pave, dig out to bottom of AC with a backhoe and hot patch.

Delivery Tickets:

If requested, provide batch tickets for each load to the county inspector. Test cylinders may be required.



NOTES:

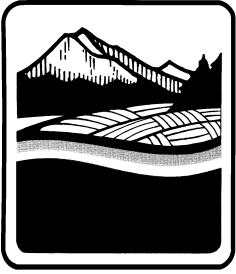
1. SEE MARION COUNTY DEPARTMENT OF PUBLIC WORKS ENGINEERING SPECIAL PROVISION 'NON-COMPRESSIBLE BACKFILL (CDF-CONTROLLED DENSITY FILL)' FOR SPECIFICATIONS.
2. PROVIDE BATCH TICKETS AND TEST CYLINDERS FOR EACH LOAD TO THE COUNTY INSPECTOR, WHEN REQUIRED.
3. IF CDF IS USED AS A DRIVABLE SURFACE, IT MUST BE DUG OUT BEFORE PAVING.

REVISIONS		
DATE:	DESCRIPTION OF CHANGES:	BY:
01/27/23	UPDATE FORMATTING AND SEPARATE DETAIL FROM SPECIAL PROVISION	HS

MARION COUNTY DEPARTMENT OF PUBLIC WORKS

**NON-COMPRESSIBLE
BACKFILL
(CDF - CONTROLLED
DENSITY FILL)**

CREATION DATE: 01/04/1995	REVISION DATE: 01/27/2023	SCALE: N.T.S	SHEET: 1 of 1
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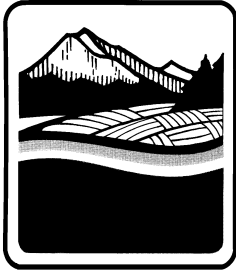
Permanent
Driveway Closure

PERMANENT DRIVEWAY CLOSURE SPECIAL PROVISIONS

When a driveway is required to be permanently closed:

1. When a roadside ditch and culvert are present:
 - a. The culvert must be removed.
 - b. The roadside ditch must be restored.
 - c. If asphalt apron is present, it must be saw-cut at edge of roadway and removed to edge of public right-of-way.
 - d. If gravel is present, it must be removed to edge of public right-of-way.
 - e. The roadway shoulder must be restored.
 - f. Area beyond the ditch must be landscaped to match adjacent terrain.
2. When no roadside ditch and culvert are present:
 - a. If asphalt apron is present, it must be saw-cut at edge of roadway and removed to edge of public right-of-way.
 - b. If gravel is present, it must be removed to edge of public right-of-way.
 - c. The roadway shoulder must be restored.
 - d. Area beyond the shoulder must be landscaped to match adjacent terrain.
3. Marion County Public Works approved alternate.

Failure to close the old access as required is grounds for Marion County Public Works to close or have closed the access at the property owner's expense.



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Private Utility
Crossing

PRIVATE UTILITY CROSSING SPECIAL PROVISIONS

Applies to: Water, Sanitary, Irrigation, Drainage, Power, etc.

General Requirements:

1. Applicant is responsible for contracting the appropriate utilities for field locates in advance of the work. ("One call" is 1-800-332-2344).
2. Any portion of the road surface, base, shoulder, or ditch disturbed or damaged as a result of the work shall be restored to its prior condition or better.
3. Appropriate traffic control shall be provided in accordance with the manual on uniform traffic control devices, to protect the traveling public at all times. If necessary, only one lane shall be closed at any given time. The open lane shall be at least 10 feet wide. Lane closures require county approval.
4. Email the county inspector at MCLDEP@co.marion.or.us at least 24 hours prior to the commencement of and at the completion of work.

Specific Requirements:

1. All utility crossings shall be bored under pavements. Exceptions may be granted by Marion County Department of Public Works when sub-surfaces make boring impractical. Gravel roads may be trenched provided the backfill material used in the traveled way is 1" minus crushed aggregate compacted to 95% M.C.
2. The line shall cross the road at 90° to the centerline.
3. The utility carrier pipe shall be in an oversized casing extending across the entire right-of-way such that the utility carrier pipe can be removed for repairs if needed without entering the right-of-way.
4. The casing shall be located at least 30" below the lowest point of the road ditch and shall have at least 36" of cover in all other areas.
5. The owner shall be responsible for all damages if the facility is not installed, located, and maintained in accordance with these special provisions.
6. When the utility is no longer used, it shall be decommissioned per county requirements. A decommissioning permit is required.

7. The owner is required to be an ongoing member of the Oregon Utilities Notification Center so that this line is located when necessary.



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Road Cut Bore
for PUC

ROAD CUT BORE FOR PUC SPECIAL PROVISIONS

1. Identification Sign Requirements: Must be in place before starting work. See Special Provision - IDENTIFICATION SIGN REQUIREMENT.
2. Traffic Control: See #2 of General Provisions. Keep at least one lane open at all times. Any work in a traffic lane requires certified flaggers. Minimum signage - one warning sign for each direction of traffic.
3. Allowable Hours of Operation: Daylight with good visibility.
4. After Hours Site Safety: No open trenches in right-of-way. Follow "Temporary Hard Road Surface" Special Provision.
5. Boring, Excavations, Trenching: Remove all excavations from right-of-way.
6. Backfill: Non-compressible (CDF) above pipe zone in road/shoulder (Delivery ticket with verification of PSI shall be submitted to County inspector.) In other areas - 1" minus compacted crushed rock.
7. Pavement Cuts & Pavement Restoration: T-Patch & Blanket Inlay - see detail.
8. Site Restoration: Same or better than found.
9. Obtain approval and requirements from the public utility company. Provide the PUC Permit # to Marion County - Land Development Engineering & Permits.
10. Follow "Road Push/Bore" Special Provisions.
11. Pot Holing for visible locating in the pavements and/or shoulder shall only be done by water-vacuum system using a 10" hole. Backfill shall be "Non-compressible Backfill" (CDF). Asphalt shall be restored with a minimum of 6" cold mix asphalt - to be left 1/2" high in pot hole above pavement.

Enclosed Attachments:

Blanket Inlay Detail

Non-Compressible Backfill (CDF - Controlled Density Fill) Detail

CDF Informational Recipe



ROAD PUSH/BORE SPECIAL PROVISIONS

1. Utilities shall cross the road at 90 degrees to the centerline of the road.
2. No portions of bore pits are allowed within 6' of the pavement unless specifically permitted.
3. Repairs on damaged pavement or drainage systems require review and approval of the inspector before the restoration.
4. Any portion of the road surface, base, shoulder, or ditch disturbed or damaged as a result of the work shall be restored to its prior existing condition.
5. Underground utilities shall be bored under culverts that are larger than 18". Utilities constructed over County culverts shall be protected in steel casing within 10' of the culvert. Utilities near culverts shall have at least 12" of separation.
6. Any disturbed Marion County drainage pipe shall be removed with soils excavated to firm, native soil. Reinstallation shall include bedding and backfilling with 1" minus at 95% compaction. Inlets or outlets which are disturbed may require grouted riprap as directed by the County Engineer.
7. Disturbed ditches with grades of 5% or more may require riprap as directed by the County Engineer.
8. All disturbed ditches and slopes shall be seeded and mulched before expected rain as directed by the County Engineer.
9. Any equipment causing pavement damage shall immediately cease work and be removed from the road. Marked pavement may require blanket inlay restoration as directed by the County Engineer.
10. Underground utilities shall not cross County roads within 100' of bridge abutments. Normally, new crossings at bridges and structures shall not attach to the structure.
11. Members of the crew, including the equipment operator, shall wear high visibility apparel labeled as ANSI 107-1999, or later, while in the public right-of-way. Truck drivers need to wear safety apparel if outside the truck cab. Company visitors and representatives must wear safety apparel when outside vehicles in the right-of-way.
12. Potholing for visible locating in the pavement and/or shoulder shall only be done by water-vacuum system using a maximum 10" cored hole. backfill shall be non-compressible backfill (CDF) with a minimum of 6" of compacted cold mix asphalt left 1/2" high.



Marion County
OREGON

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Sanitary Sewer
Tap

SANITARY SEWER TAP SPECIAL PROVISIONS

1. Identification Sign Requirements: Must be in place before starting work. See Special Provision - IDENTIFICATION SIGN REQUIREMENT.
2. Traffic Control: See #2 of General Provisions. Keep at least one lane open at all times. Any work in a traffic lane requires certified flaggers. Minimum signage - one warning sign for each direction of traffic.
3. Allowable Hours of Operation: Daylight with good visibility.
4. After Hours Site Safety: No open trenches in right-of-way. Follow "Temporary Hard Road Surface" Special Provision.
5. Boring, Excavations, Trenching: Remove all excavations from right-of-way.
6. Backfill: Non-compressible (CDF) above pipe zone in road/shoulder (Delivery ticket with verification of PSI shall be submitted to County inspector.) In other areas - 1" minus compacted crushed rock.
7. Pavement Cuts & Pavement Restoration: T-Patch & Blanket Inlay - see detail.
8. Site Restoration: Same or better than found.
9. Obtain "Sewer Tap Permit" from controlling jurisdiction.
10. Pot Holing for visible locating in the pavements and/or shoulder shall only be done by water-vacuum system using a 10" hole. Backfill shall be "Non-compressible Backfill" (CDF). Asphalt shall be restored with a minimum of 6" cold mix asphalt - to be left 1/2" high in pot hole above pavement.

Enclosed Attachments:

Blanket Inlay Detail

Non-Compressible Backfill (CDF - Controlled Density Fill) Detail

CDF Informational Recipe



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Sidewalk and
Approach for
Curbed Streets

SIDEWALK AND APPROACH FOR CURBED STREETS SPECIAL PROVISIONS

1. Approach width (W)
 - a. Residential 12'-24'
 - b. Commercial 28'- 40'- For Commercial Driveways, width shall be set by the director of Public Works on a site specific basis.
2. Flare
 - a. 36" for commercial and industrial where traveled lane in street is adjacent to the curb. (i.e. parking prohibited).
 - b. None required for residential and commercial where parking is allowed in street adjacent to curb.
3. Brooming directions: Back of walk to face of curb.
4. Deep scored contraction joints are to be made every 5' of sidewalk and every 15' of curb. Where the curb is cut to allow for a drain line, the deep score is to be made at both curb edges, not over the pipe. See note "7-e" below.
5. Deep scored contraction joints are to be formed to a depth of 1/3 of the thickness of concrete and a width of about 1/8".
6. After brooming, tool round and shine the outer edge of the sidewalk (not the contraction joints) and the outer edge of the driveway in the planter strip.
7. Expansion joints using 1/2" and 3 1/2" pre-molded joint filler material are required:
 - a. Along the sidewalk at the driveway (a property line sidewalk will require expansion joints on both sides of the walk).
 - b. Along the sidewalk where it intersects another sidewalk.
 - c. On the edges of utility vaults or other structures exposed to the sidewalk.
 - d. In the sidewalk to isolate a wheelchair ramp.
 - e. On curbside sidewalks placed at 90 degrees across the sidewalk at the beginning (top) of the curb transition.
 - f. In sidewalks with the long runs. No running piece of sidewalk shall be more than 40' without an expansion joint.
8. Concrete specifications – A minimum of 3,300 PSI concrete shall be used for all curbs, driveway approaches and sidewalks. Concrete shall be air entrained, total air content (percent by volume of concrete) shall not be less than 5% or more than 7%.

9. Curb Removal – When an existing full height curb section is removed for construction, the following provisions shall apply:
 - a. Vertical saw cuts shall be made outside the edges of the curb transitions (this applies to both type A and C curbs). Where weep holes are to be installed, additional curb will need to be removed.
 - b. Type A “curbs and gutters”: The entire curb and gutter shall be removed and repoured, or a longitudinal vertical cut shall be made at the flow line of the gutter leaving the apron intact. All material in the curb area shall be removed to subgrade and reported. Provide 6” of concrete below the flow line in the curb area.
 - c. Type C Curb: The entire curb shall be removed to full depth and repoured, or the curb shall be broken out from a point 2” below the adjacent asphalt downward and away from the street at no less than a 45 degree angle and repoured. Provide 10” of concrete below the asphalt in the curb area.
10. Drain Lines – Weep holes for drains are to exit in a full height curb section outside the curb transition area of the driveway. The drain lines in the sidewalk are to be located under or adjacent to a contraction joint. Drain lines are to cross sidewalks at 90 degree (perpendicular) to the sidewalk, not askew.
11. Where curb cuts are made for construction of a driveway approach, one drain line is allowable in the curb transition area if the line is placed directly adjacent to the curb cut (highest point in the transition).
12. All drain lines are to be placed down at the flow line of the gutter.
13. Drain pipe is to be placed adjacent to one of the curb cuts. A contraction joint is to be scored along both cuts. The pipe outlet is to match the flow line of the gutter.

SEE: Curbed Sidewalk Detail



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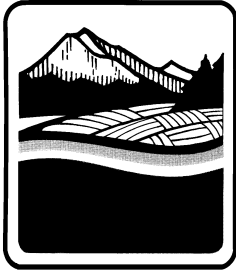
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Standard
Sidewalk

STANDARD SIDEWALK SPECIAL PROVISIONS

1. Identification Sign Requirements: Must be in place before starting work. See Special Provision - IDENTIFICATION SIGN REQUIREMENT.
2. Traffic Control: See #2 of General Provisions. Keep at least one lane open at all times. Any work in a traffic lane requires certified flaggers. Minimum signage - two sidewalk closed signs.
3. Allowable Hours of Operation: Daylight with good visibility.
4. After Hours Site Safety: No open trenches in right-of-way. Use Type II Barricades with caution tape to prevent the public in the work zone.
5. Excavations, Trenching: Remove all excavations from right-of-way.
6. Backfill: 3/4" or 1" minus compacted crushed rock. No broken concrete will be allowed.
7. Pavement Cuts & Pavement Restoration: T-Patch & Blanket Inlay - see detail.
8. Site Restoration: Same or better than found.
9. Call for Utility locates: 1-800-332-2344 or 811
10. Follow Special Provisions/Details for sidewalk construction.

Enclosed Attachments:
Blanket Inlay Detail
Notes for Urban Streets
Standard Sidewalk Details



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Storm Drain
Connection

STORM DRAIN CONNECTION SPECIAL PROVISIONS

1. Identification Sign Requirements: Must be in place before starting work. See Special Provision - IDENTIFICATION SIGN REQUIREMENT.
2. Traffic Control: See #2 of General Provisions. Keep at least one lane open at all times. Any work in a traffic lane requires certified flaggers. Minimum signage - one warning sign for each direction of traffic.
3. Allowable Hours of Operation: Daylight with good visibility.
4. After Hours Site Safety: No open trenches in right-of-way. Follow "Temporary Hard Road Surface" Special Provision.
5. Boring, Excavations, Trenching: Remove all excavations from right-of-way.
6. Backfill: Roadway - non-compressible (CDF) above pipe zone in roadway/shoulder. Other- Native.
7. Pavement Cuts & Pavement Restoration: T-Patch & Blanket Inlay - see detail.
8. Site Restoration: Same or better than found.
9. Any taps into the County storm system shall be made by sawing and not by hammering.
10. New lines shall NOT protrude into County structures and shall be cut smooth to the inside of the structure wall. Concrete lines shall be grouted. Other lines shall use manufactured connections.
11. Pot Holing for visible locating in the pavements and/or shoulder shall only be done by water-vacuum system using a 10" hole. Backfill shall be "Non-compressible Backfill" (CDF). Asphalt shall be restored with a minimum of 6" cold mix asphalt - to be left 1/2" high in pot hole above pavement.

Enclosed Attachments:

Blanket Inlay Detail

Non-Compressible Backfill (CDF - Controlled Density Fill) Detail

CDF Informational Recipe

Storm Drain Connection Permit IVR Inspection Codes:

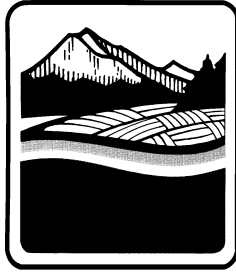
6370 Stormwater Culvert/Riprap

9566 Storm Main Installation

9562 Storm Laterals - Final

9564 Storm Main Connection

9568 Storm Main Testing



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Survey
Monument
Special Provision

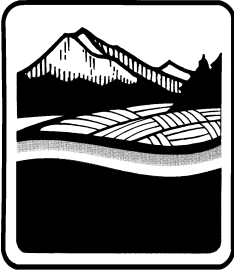
SURVEY MONUMENT SPECIAL PROVISIONS

1. The Contractor shall locate and mark all existing property and street monuments before construction.
2. Any monuments disturbed during construction of the project, shall be replaced by a Registered Professional Land Surveyor at the Contractor's expense.
3. Monument boxes are required for all public land corner monuments that fall within paved areas and also for centerline monuments within, or if applicable, outside the boundary of subdivision or condominium plats.
4. See Marion County Surveyor's Office for approved monument boxes.



TEMPORARY HARD ROAD SURFACE SPECIAL PROVISIONS

1. Cuts in paved roads require a hard surface in the travel lane and turn radius when the road is open to traffic. Hard surfaces include non-compressible backfill, a cold mix patch, steel plates, or the permanent restoration of the pavement as required in the permit. The permanent surface shall be constructed as soon as possible.
2. Where NON-COMPRESSIBLE BACKFILL (CDF – Controlled Density Fill) is used as a temporary hard surface, it shall be made with sand (fines) only and be placed flush with the pavement + 1/4". An Early rise slurry mix should be used and the patch protected until ready for traffic. CDF worn more than 1/2" below the road surface shall be a cold mix patched (see below).
3. Where COLD MIX asphalt is used as a temporary hard road surface, it shall be placed from at least 1 1/2" below the road surface to 1/4" above the road surface + 1/4". It must be compacted by mechanical means when placed or added to. Cold patch requires constant maintenance. Temporary patches that drop more than 1/2" below the existing pavement are subject to immediate maintenance at the direction of Marion County and the contractor shall be billed for the cost of mobilization and patching.
4. Where STEEL PLATES are used as a temporary hard road surface. The steel plates shall be centered over the cut. No more than 1/3 of the plate shall span a trench which has not been completely backfilled to the road surface, or no more than 2 of the steel plates shall span a trench which has been backfilled to the road surface with CDF or compacted crushed rock. Steel plates shall have a minimum of two 3/4" diameter holes for steel pins to be driven in 6" below the pavement surface into solid pavement at least 18" from the road cut. The pins shall have heads larger than the holes in the plates and extend no more than 3/4" above the plate surface. Uneven pavement surfaces must first be leveled with cold mix before steel plates are laid down. Cold mix shall be used to ramp up to the steel plates with a 6" of ramp for each 1/2" in difference in elevation between the top of the plate and the road surface. The inspector may require longer ramps in extreme situations. Cold mix ramp must be constantly maintained. Failure to properly maintain is grounds for Marion County to maintain and charge back the costs of mobilization and maintenance. Use of steel plates in the travel lanes requires two 30" x 30" BUMP warning signs (W 8 - 1) located on each side of the road cut and facing the oncoming traffic.
5. Other trenches and pits within 10' of the edge of pavement or fogline where existing must be backfilled or steel plated when the lane is open to night traffic. During daylight hours, cone and barricades are required.



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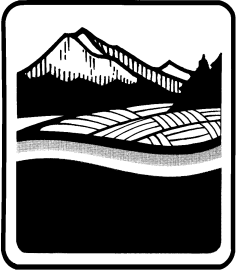
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Tree Falling

TREE FALLING SPECIAL PROVISIONS

1. Trees to be felled which are in the right-of-way and more than 6" in diameter (measured 3' above the ground level) require a work in right-of-way permit.
2. The permit usually allows for tree removal only in the road right-of-way adjacent to the property owned by the applicant.
3. The work shall be done in a professional manner with all of the normal safety precautions for this type of work.
4. Properly dispose of brush (processing through a chipper) that is cut outside of riparian areas. Deposit excess material above the 100-year flood plain, and not within 75' of a stream, wetland or riparian area (including ditches).
5. Refuel and repair equipment at least 25' from waterways.
6. Maintain shade trees along water bodies when possible.
7. Trees providing shade or bank stabilization within 50' of a water body that are removed should be replaced at a 2:1 ratio within the same water shed.
8. The County shall be notified prior to the start of work by email to MCLDEP@co.marion.or.us. See Right-of-Way Permit General Provisions.
9. The applicant shall notify the appropriate utilities of the work in the right-of-way with a minimum of three (3) days advance notice.
10. Specific traffic control plans may be required as a part of the permit. Temporary traffic control signage shall be 36" x 36" clean signs in good repair. The work area during construction or maintenance performed under the permit provisions shall be protected in accordance with the current Manual on Uniform Traffic Control Devices (MUTCD) for Streets and Highways, US Department of Transportation (USDOT), and the Oregon Department of Transportation (ODOT) supplements thereto, including the latest version of the Oregon Temporary Traffic Control Handbook. Flaggers must have a current card or certificate indicating their completion of an approved work zone traffic control course.

11. Members of the crew, including the equipment operator, shall wear high visibility apparel labeled as ANSI (most recent version) while in the public right-of-way. Truck drivers need to wear safety apparel if outside the truck cab. Company visitors and representatives must wear safety apparel when outside vehicles in the right-of-way.
12. Flaggers shall be used at both ends of the project. The maximum time the road may be closed shall be 10 minutes.
13. Trees shall NOT be felled into the roadway.
14. All debris shall be removed from the right-of-way. All stumps shall be cut flush with the ground.
15. Any portion of the roadway, including the surface, shoulder or ditch, which is disturbed or damaged shall be restored to as good as or better condition as directed by the County inspector. Road surface repairs shall not be done until the inspector gives specific direction.



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Trenching
Without
Pavement Cut for
Municipal or PUC
Work

TRENCHING WITHOUT PAVEMENT CUT FOR MUNICIPAL OR PUC WORK SPECIAL PROVISIONS

1. Identification Sign Requirements: Must be in place before starting work. See Special Provision - IDENTIFICATION SIGN REQUIREMENT.
2. Traffic Control: See #2 of General Provisions. Keep at least one lane open at all times. Any work in a traffic lane requires certified flaggers. Minimum signage - one warning sign for each direction of traffic.
3. Allowable Hours of Operation: Daylight with good visibility.
4. After Hours Site Safety: No open trenches in right-of-way.
5. Excavations, Trenching: Remove all excavations from right-of-way & dispose out of right-of-way.
6. Backfill: Non-compressible (CDF) above pipe zone in road/shoulder. Other 1" minus crushed rock.
7. Pavement Cuts & Pavement Restoration: Not approved.
8. site Restoration: Same or better than found. Disturbed shoulders shall have clean 1" minus crushed rock.
9. Obtain utility permit from the Municipality or copy of plan sheet from the PUC Utility Company. Supply the Job Number or Permit Number to Marion County Land Development Engineering & Permits.
10. Pot Holing for visible locating in the pavements and/or shoulder shall only be done by water-vacuum system using a 10" hole. Backfill shall be "Non-compressible Backfill" (CDF). Asphalt shall be restored with a minimum of 6" cold mix asphalt - to be left 1/2" high in pothole above pavement.
11. Follow applicable sections of "Standard Construction Notes".

Enclosed Attachments:

Non-Compressible Backfill (CDF - Controlled Density Fill) Detail
CDF Informational Recipe