PUBLIC TESTIMONY RECEIVED



Three Mile Lane Area Plan January, 2022

From: <u>bakerproperty52@gmail.com</u>

To: <u>Heather Richards</u>

Subject: Three Mile Lane Overlay comment

Date: Friday, December 3, 2021 4:01:10 PM

Attachments: We sent you safe versions of your files.msq

Final Norton Crest Report.pdf

Mimecast Attachment Protection has deemed this file to be safe, but always exercise caution when opening files.

This message originated outside of the City of McMinnville.

The neighbors who live on Cole and NE Destiny Drive are extremely concerned and opposed to plans to install a public walkway behind our houses in an area identified as a geological slide zone. We have been very careful to leave this area alone so that the erosion that has already occurred so dramatically above the Yamhill river bank will not worsen. Every tree we can keep in place above the river makes it possible to retain soils and land. I have a copy of the geological report, but I assume the city has a copy since it would have been required when the neighborhood was built. The area's main use has been as a wildlife corridor and that is exactly what it is suited for.

For your convenience, I attached one of the geological reports. It states that the areas beyond our setbacks is a marginally unstable area and that the slopes above the Yamhill River and associated feeder streams are "inherently unstable. Numerous slumps and slide features are present along these areas. We recommend that no construction, filling, or vegetation removal be conducted beyond the slope setback line as indicated.

Depending upon the amount of relatively recent erosion, the slopes range from 2 horizontal to 1 vertical (2H:1V) to near-vertical in areas of recent slumping.

The Escarpment Terrace soils are found adjacent to, and along the steeply sloping ground and bluffs that over

look the Yamhill River. The soil constituents can be highly variable mixtures of silt and sand. Slumps and

landslides within this soil unit can occur during long periods of rain. The hazard of erosion is also severe

where this land is unprotected by vegetation. It is poorly suited to home sites because of the unstable soil

conditions.

Ground Stability. We performed a geologic reconnaissance along the steeply sloping ground along the

eastern side of the project site. Several areas of spring activity, seeps, ground slumps, and landsliding were

identified along these slopes.

A recommended slope setback line has been established in areas of most concern to future development.

No filling, vegetation removal or construction is recommended beyond the setback line. In addition, it is

likely that jurisdictional agencies will require individual site-specific Geotechnical and Geologic Hazard

Reports for each building lot overlain with the setback line.

A number of significant landslides and numerous smaller ones appear to have been caused by undercutting

by the South Yamhill River and the unnamed feeder stream immediately east of the site. The largest slide is

located immediately north of this site but in the future could have an effect on site stability. The SouthSouth

Yamhill River takes a sharp bend immediately northeast of the property and has severely undercut the

slopes above the stream bank. The entire bank north of Lots 4 to 7 has slid into the river, constricting it to a

narrow channel and creating a relatively flat bench above the river. Open ground cracks and downed trees

attest to the recent ground movement.

The banks immediately east of the large slide are severely undercut, and in places near-vertical, and prone

to the same type of failure described above. The banks above the feeder streams are also actively slumping and sliding, though at an apparently slower rate. The past and potential future slope failures have

resulted in establishment of the Slope Setback line indicated on Figure 2. Overall, considering the steepened nature of the banks and their inherent instability, building construction and ground disturbance

should not be allowed within the setback area."

We ask that the city drop the pedestrian walkway from the overlay.

Lisa Baker Principal Broker/REALTOR RE/MAX Equity Group Web: <u>LisaBaker.REALTOR</u>

Cell: 503-476-5411

Lisa Baker

Principal Broker/REALTOR RE/MAX Equity Group Web: <u>LisaBaker.REALTOR</u>

Cell: 503-476-5411

Geologic and Geotechnical Engineering Evaluation Proposed Norton Crest Subdivision McMinnville, Oregon

Prepared for: Multi Development LLC

> May 17, 2006 1214-00





Geologic and Geotechnical Engineering Evaluation Proposed Norton Crest Subdivision McMinnville, Oregon

Prepared for: Multi Development, LLC

May 17, 2006 1214-00

Jeff Duquette, P.E. Project Engineer, Ash Creek Associates

EXPERS 12/3V 07

Stuart Albright, P.E. Principal, Ash Creek Associates

Table of Contents

1.0	INTRODUCTION AND LIMITATIONS	1
2.0	REPORT SUMMARY	1
	2.1 Subsurface Conditions	2
	2.2 Site Preparation and Excavations	2
3.0	PROJECT UNDERSTANDING AND SITE DESCRIPTION	3
4.0	SUBSURFACE CONDITIONS	3
5.0	GEOLOGIC SETTING	5
	5.1 Seismicity and Earthquake Sources	7
6.0	CONCLUSIONS AND RECOMMENDATIONS	8
	6.1 Site Preparation	8
	6.2 Structural Fills	9
	6.3 Suitable Fill Materials	10
	6.4 Areal Fill Settlements	11
	6.5 Filling on Sloping Ground	11
	6.6 Finished Cut and Fill Slopes	12
	6.7 Springs, Seeps, Drain Tiles	12
	6.8 Retaining Walls	12
	6.9 Foundation Design Considerations	13
	6.10 Drainage	14
	6.11 Excavations and Utilities	14
	6.12 Erosion Control	14
7.0	PAVEMENT DESIGN RECOMMENDATIONS	15
8.0	RECOMMENDATIONS FOR ADDITIONAL SERVICES	16
9.0	CLOSING	16

Figures

- Site Location Map
- 2 Site Exploration Plan

Appendix

A Test Pit Logs and Cone Penetrometer Soundings

1.0 Introduction and Limitations

This report presents Ash Creek Associates' geologic and geotechnical engineering evaluation and preliminary recommendations for the proposed Norton Crest subdivision. The site is located east of Norton Lane, west of Kingwood Street, and southwest of the Yamhill River, in McMinnville, Oregon (Figure 1). Property development is expected to include site grading and the installation of various underground utilities and services.

The purpose of our work was to provide geotechnical engineering recommendations for the design and construction of the proposed project. Our recommendations include:

- Site preparation;
- Grading and fill construction;
- · Developing slope setback zones along the eastern side of the project; and
- Other pertinent geotechnical design criteria and construction considerations.

Ash Creek Associates' scope of work was detailed in our proposal 06-0028 dated April 12, 2006, and entitled Proposal for Geotechnical Design Study Proposed Norton Crest Subdivision McMinnville, Oregon. The work was performed for the exclusive use of Multi Development, LLC, their consultants, and their agents for geotechnically related applications to this project. This work was conducted in accordance with generally accepted professional practices in the same or similar localities related to the nature of the work accomplished, at the time the services were performed. No other warranty, express or implied, is made.

Our scope of work included a preliminary geologic site reconnaissance followed by a subsurface investigation. The subsurface investigation included the excavation of five test pits on the project site. Additional aspects of our work scope included a site vicinity geologic reference review and the preparation of this report.

2.0 Report Summary

The following is a summary of the findings in this report. Based upon our library research, field reconnaissances, subsurface explorations, and geotechnical analyses, it is our conclusion that the site is developable, subject to the constraints and recommendations outlined in this report. Please refer to the full report for all of the assumptions and details regarding our findings.

2.1 Subsurface Conditions

Topsoil. Topsoil encountered in our explorations varied between 4 and 6 inches in thickness. Deeper areas of surface organics are typical of heavily wooded areas and areas with heavy brush growth. Topsoil,

forest duff, or root ball depths from 6 to 36 inches in heavily vegetated areas are expected.

Clayey SILT to silty CLAY. The near surface soils at the heads of existing drainage areas consists of a

medium stiff, damp, gray, clayey SILT to silty CLAY.

SILT. The native soils immediately underlying the topsoil or the above described clayey SILT to silty CLAY

layer were observed to consist of a medium stiff to stiff, damp, brown and gray, slightly rust mottled, SILT.

These soils were observed in thicknesses of approximately 11 to 12 feet below the existing ground surface

(bgs).

Groundwater. No groundwater or seepage was observed in any of our test pits; however, a spring was

observed near the head of the drainage north of Test Pits 2 and 3. Springs and seeps may typically

manifest themselves during site preparation and grading along slopes and near creeks and drainages. When encountered in building areas, road subgrade areas, or fill subgrade areas, springs should be

intercepted with drains and routed to the subdivision storm water system or other appropriately prepared

outfalls. Clay drain tiles are present under portions of the site, suggesting a perched water table. Ground

water levels may rise considerably during late fall through late spring.

2.2 Site Preparation and Excavations

Dry Weather Grading. It is strongly recommended that site preparation, earthwork/grading, paving, and

utility work be conducted during extended periods of warm, dry weather, typical during summer through

early fall months.

Site Preparation. Topsoil should be stripped from all building pads, fill subgrade areas, road subgrades

and other settlement prone appurtenant structures and features. Topsoil should not be reused as

structural fill.

Compaction Standards. Recommended compaction specifications should be based upon ASTM D 1557

(or AASHTO T-180) moisture density relationships. Compaction of fine-grained soils (native silt and clayey

silt) to acceptable density levels during the wet season will be very difficult.

Construction Beyond the Slope Setback. The slopes above the Yamhill River and associated feeder

streams are inherently unstable. Numerous slumps and slide features are present along these areas. We

§ P

recommend that no construction, filling, or vegetation removal be conducted beyond the slope setback line as indicated on Figure 2.

3.0 Project Understanding and Site Description

Ash Creek Associates, Inc. understands that the project will consist of development of a multiple lot subdivision that will include site grading and construction of appurtenant streets and utilities.

The site is located on a relatively flat bench with the South Yamhill River immediately to the northeast and feeder drainages to the east and southeast. Depending upon the amount of relatively recent erosion, the slopes range from 2 horizontal to 1 vertical (2H:1V) to near-vertical in areas of recent slumping. The flat portions of the site have been cultivated in clover, and over the recent years, excess brush and debris have been pushed to or over the slope crests in areas currently vegetated by low brush and blackberry vines.

4.0 Subsurface Conditions

Nine exploratory test pits were excavated on the project site on May 2, 2006. Excavation work was completed using a track-mounted excavator contracted by Ash Creek Associates. The maximum reach of the backhoe was approximately 11 to 12 feet bgs. The test pit exploration was undertaken to determine the excavation characteristics of the materials; the suitability of native soils for reuse as structural fill; and the ability of near-surface native strata to support residential structures.

In addition to the test pit exploration, two Cone Penetrometer Test (CPT) soundings were conducted in areas adjacent to the slopes over looking the Yamhill River and the drainage to the east. The cone soundings were advanced to depths of approximately 90 feet bgs.

The locations of test pit and cone penetrometer explorations are shown on the accompanying Site Plan (Figure 2). The locations of the test pits and CPTs were established by pacing from existing features and should therefore be considered approximate. Test pit logs have been included in the appendix of this report. The logs describe soil and subsurface conditions encountered during Ash Creek Associates' subsurface exploration. Descriptions are based upon field classification of soil samples. The CPT logs are also included at the end of this report (Appendix A).

It should be emphasized that our exploration revealed subsurface conditions only at widely spaced, discrete locations on the project site and that actual conditions could vary at other locations. Furthermore, the nature and extent of any such variations may not become evident until construction activities have begun. If significant variations are observed at that time, we may need to modify our conclusions and

recommendations to reflect actual conditions. For ease of outside interpretation, subsurface conditions

have been generalized into the major categories described below.

Man-made Fill. Although difficult to quantify, man-made fills appear to be present on the site in the areas of

the building construction, and particularly in the heads of the drainages along the north side of lots 1 through 5 and in the area of lots 14 through 17. The latter fills were probably installed using native soils to increase

areas of cultivation and to cover wet areas. In addition to the fills, it appears that a fairly extensive network

of near-surface clay drain tiles may exist on the site and should be anticipated during construction.

Topsoil. A damp, dark brown, topsoil layer mantles the entire site. Topsoil thicknesses observed in

exploratory test pits are moderately thick, varying from 4 to 6 inches in depth. Thicker topsoil and organic

rich soil may be encountered at depths in excess of 6 inches up to perhaps 36 inches, particularly in areas

of blackberry brush and trees.

Topsoil, root mat, duff, and root ball material should be stripped and removed from all fill subgrade areas,

structural areas, pavement subgrade areas, building lots, and any other areas that may be sensitive to

subgrade related settlements. Reuse of topsoil strippings should be limited to a thin layer of landscaping fill

at the surface of building lots (fills with maximum thicknesses of 8 inches or less). These landscape fills should be limited to non-structural/non-pavement areas of building lots. Topsoil stripping could potentially

be employed in low-lying landscape berms.

Clayey SILT to silty CLAY. Along the heads of lower lying drainage features, the native soils underlying

the topsoil zone consist of medium stiff, damp, gray, clayey SILT to silty CLAY. Drainage heads are located

in the vicinity of Test Pits TP-1, TP-2, TP-3 and to a lesser extent TP-7.

This soil unit will function adequately as road subgrade or bearing strata for single-family residential

structures. This material will also function adequately as structural fill if placed and compacted during

extended periods of warm dry weather typical of July through September. Reuse of this soil as fill should be

in accordance with recommendations provided in this report. Because of the clay content of this soil unit, reuse in new structural fills material will entail additional efforts by the earth working contractor in the form of

soil drying and compaction.

SILT. The native soils immediately underlying the topsoil or the above described clayey SILT to silty CLAY

layer was observed to consist of a medium stiff to stiff, damp, brown and gray, slightly rust mottled, SILT.

These soils were observed in thicknesses in excess of 11 to 12 feet bgs.

Page 4

This soil unit will function adequately as road subgrade or bearing strata for single-family residential structures. This material will also function adequately as structural fill if placed and compacted in accordance with recommendations provided in this report.

Groundwater. We did not encounter groundwater in any of our test pits at the time of our exploration. Our maximum depth of exploration was approximately 11 or 12 feet bgs. However, a clay drain tile was noted in test pit TP-2. Moderate to heavy flow was noted to be emanating from the tile. The presence of tile drains combined with the soil mottling observed in soil sample suggest static ground water or perched groundwater may rise considerably during the winter and spring.

Springs and seep activity were observed along the steeply sloping ground along the eastern and north eastern sides of the site. One area of significant note is the drainage east of our test pits TP-2 and TP-3. Springs and seeps may manifest themselves during site preparation and grading. When encountered in building areas, road subgrade areas, or fill areas, springs should be intercepted with drains and routed to the subdivision storm water system or other appropriately prepared outfalls.

5.0 Geologic Setting

General. Two major near surface geologic units are found in the near vicinity of the proposed project. The primary unit, and most typical of site conditions, is an elevated non-marine terrace deposit typical of the Yamhill, Tualatin, Willamette, and other major river valleys in northwestern Oregon. Soils include semi-consolidated lacustrine silts, or silty sand with interbedded sands and gravels. At elevations nearer to the Yamhill River, soils consist of unconsolidated alluvial silts and sands. Major bedrock units are typically in excess of 100 to 200 feet bgs. The near vicinity bedrock units are mapped as either the Miocene aged Columbia River Basalt, or Upper Eocene Aged Marine Sedimentary Rock of the Yamhill Formation.

NRCS Soil Mapping. NRCS (conducted under the auspices of the Soil Conservation Service) soil mapping conducted in the McMinnville area suggests the presence of three near surface soil units within the project vicinity. The soil units are classified by NRCS as Woodburn Silt Loam (WuB), Amity Silt Loam (Am), and Terrace Escarpments (Te).

The Woodburn Silt Loam unit has been mapped by NRCS along the northern and eastern sides of the project site. This soil unit consists of slightly plastic, poor to moderately drained silt loam. Soil pH is reported as approximately 5.8 to 6.0.

The Amity Silt Loam unit is present along the western half of the project site. This soil unit consists of slightly plastic, poor to moderately drained silt loam. Soil pH is reported as approximately 5.8 to 6.4.

The Escarpment Terrace soils are found adjacent to, and along the steeply sloping ground and bluffs that over look the Yamhill River. The soil constituents can be highly variable mixtures of silt and sand. Slumps and landslides within this soil unit can occur during long periods of rain. The hazard of erosion is also severe where this land is unprotected by vegetation. It is poorly suited to home sites because of the unstable soil

conditions.

Ground Stability. We performed a geologic reconnaissance along the steeply sloping ground along the eastern side of the project site. Several areas of spring activity, seeps, ground slumps, and landsliding were

identified along these slopes.

A recommended slope setback line has been established in areas of most concern to future development.

No filling, vegetation removal or construction is recommended beyond the setback line. In addition, it is

likely that jurisdictional agencies will require individual site-specific Geotechnical and Geologic Hazard

Reports for each building lot overlain with the setback line.

A number of significant landslides and numerous smaller ones appear to have been caused by undercutting

by the South Yamhill River and the unnamed feeder stream immediately east of the site. The largest slide is

located immediately north of this site but in the future could have an effect on site stability. The South

Yamhill River takes a sharp bend immediately northeast of the property and has severely undercut the slopes above the stream bank. The entire bank north of Lots 4 to 7 has slid into the river, constricting it to a

narrow channel and creating a relatively flat bench above the river. Open ground cracks and downed trees

attest to the recent ground movement.

The banks immediately east of the large slide are severely undercut, and in places near-vertical, and prone

to the same type of failure described above. The banks above the feeder streams are also actively

slumping and sliding, though at an apparently slower rate. The past and potential future slope failures have

resulted in establishment of the Slope Setback line indicated on Figure 2. Overall, considering the steepened nature of the banks and their inherent instability, building construction and ground disturbance

should not be allowed within the setback area.

Based upon our observations and explorations, it is our opinion that portions of the site are developable

using the construction techniques outlined in our report. Provided the construction adheres to our

recommendations, we do not foresee problems outside normal variations in conditions on most construction

projects of this nature. However, as noted previously, site-specific Geotechnical and Geologic Hazard Reports will be required for construction in the areas adjacent to the South Yamhill Rver and the feeder

stream channel to the southeast and east.

The relatively flat-lying ground beneath the remainder of the site appears to be stable, and no site-specific

investigations will be required. Structures in this area should still anticipate perched, near-surface water

during the winter months and should have foundation drainage installed. During the grading process, surface contouring should be such that surface drainage is directed away from the structures.

5.1 Seismicity and Earthquake Sources

The seismicity of the McMinnville and Western Oregon area, and hence the potential for ground shaking, is controlled by three separate fault mechanisms. These include the Cascadia Subduction Zone (CSZ), the mid-depth intraplate zone, and the relatively shallow crustal zone. Descriptions of these potential earthquake sources are presented below.

The CSZ is located offshore and extends from Northern California to British Columbia. Within this zone, the oceanic Juan De Fuca Plate is being subducted beneath the continental North American Plate to the east. The interface between these two plates is located at a depth of approximately 15 to 20 kilometers (km). The seismicity of the CSZ is subject to several uncertainties, including the maximum earthquake magnitude and the recurrence intervals associated with various magnitude earthquakes. Anecdotal evidence of previous CSZ earthquakes has been observed within coastal marshes along the Washington and Oregon coast lines. Sequences of interlayered peat and sands have been interpreted to be the result of large subduction zone earthquakes occurring at intervals on the order of 300 to 500 years, with the most recent event taking place approximately 300 years ago. A recent study by Geomatrix (1995) suggests that the maximum earthquake associated with the CSZ is moment magnitude (Mw) 8 to 9. This is based on an empirical expression relating moment magnitude to the area of fault rupture derived from earthquakes that have occurred within subduction zones in other parts of the world. An Mw 9 earthquake would involve a rupture of the entire CSZ. As discussed by Geomatrix (1995), this has not occurred in other subduction zones that have exhibited much higher levels of historical seismicity than the CSZ, and is considered unlikely. For the purpose of this study an earthquake of Mw 8.5 was assumed to occur within the CSZ.

The intraplate zone encompasses the portion of the subducting Juan De Fuca Plate located at a depth of approximately 30 to 50 km below western Washington and western Oregon. Very low levels of seismicity have been observed within the intraplate zone in western Oregon and SW Washington. However, much higher levels of seismicity within this zone have been recorded in Washington and California. Several reasons for this seismic quiescence were suggested in the Geomatrix (1995) study and include changes in the direction of subduction between Oregon, Washington, and British Columbia as well as the effects of volcanic activity along the Cascade Range. Historical activity associated with the intraplate zone includes the 1949 Olympia magnitude 7.1 and the 1965 Puget Sound magnitude 6.5 earthquakes. Based on the data presented within the Geomatrix (1995) report, an earthquake of magnitude 7.25 has been chosen to represent the seismic potential of the intraplate zone.

The third source of seismicity that can result in ground shaking within the Salem and northwestern Oregon area is near-surface crustal earthquakes occurring within the North American Plate. The historical seismicity of crustal earthquakes in western Oregon is higher than the seismicity associated with the CSZ and the intraplate zone. The 1993 Scotts Mills (magnitude 5.6) and Klamath Falls (magnitude 6.0) earthquakes were crustal earthquakes.

6.0 Conclusions and Recommendations

Based upon our library research, field reconnaissances, subsurface explorations, and geotechnical analyses, it is our conclusion that the site is developable, subject to the constraints and recommendations outlined in this report. Our recommendations are based on our current understanding of the project. If the nature or location of the planned construction changes, Ash Creek Associates should be contacted so that we can confirm or revise our recommendations.

6.1 Site Preparation

We have provided recommendations for dry weather construction as well as other geotechnical concerns and issues relative to the project site. Because of the erosion- and moisture-sensitive, near-surface soils and the potential for encountering shallow perched groundwater during the wet months, Ash Creek Associates strongly recommends that site grading and utility trenching be conducted during extended periods of relatively dry weather conditions. If wet weather construction is attempted, development costs will be significantly higher due in part to the increased cost of imported granular fill, maintenance of soft subgrade areas generated as a result of construction activities, and installation of a granular working blanket over construction trafficked portions of the site.

We understand that once the site is developed and the infrastructure is in place, it is more difficult to control the excavation and construction activities by individual builders. However, we recommend that the quidelines outlined in this report be made available to individual builders and that appropriate cautions be made regarding open cuts during the wet weather months.

Stripping and Grubbing. The majority of the project site is presently mantled in approximately 4 to 6 inches of topsoil. Pockets of deeper topsoil, fill, root balls, or organic rich silt are anticipated within some areas of the site. These areas that will require deeper stripping may entail removal of as much as 36 inches of root balls and near surface organic rich soil.

Prior to commencing construction activities, the site should be stripped of surficial topsoil, organic silts, and brush roots. Material generated from site stripping should be considered unsuitable for reuse in engineered fills. Stripped topsoil can be stockpiled for later use as non-structural thin landscape fills on the lots. These landscape fills should be limited to non-structural/non-pavement areas of building lots, and fill thicknesses should not exceed 8 inches.

We recommend that a representative of Ash Creek Associates' geotechnical engineering staff be retained during stripping and grubbing to confirm that unsuitable soil has been removed from structural and pavement areas and root ball excavations are backfilled with compacted fill.

Dry Weather Construction. On-site, non-organic, native soils should provide adequate structural fill material if placed and compacted during dry weather months. Proper moisture conditioning should be conducted prior to placement and compaction. Engineered fill should be compacted to 92 percent of the material's maximum dry density as determined by ASTM D 1557.

Minimum compaction for the 8 inches immediately underlying pavement sections should be 95 percent of the soil or gravel's maximum density as determined by ASTM D 1557. Even during dry weather it is possible that some areas of the subgrade will become soft or may "pump" (deflect under wheel load), particularly in deeper cuts, spring/seep areas, poorly drained areas, abandoned drainage ditches, swales, etc.

Proof-Rolling. We recommend that prior to fill placement or base course installation, the subgrade or granular working blanket be proof-rolled with a loaded 10- to 12-yard dump truck or other suitable equipment. This pertains to all pavement and structural fill subgrade areas. Any areas of subgrade that pump, weave, or appear soft and muddy should be scarified, dried, and compacted, or over-excavated and backfilled with compacted granular fill. If a significant length of time passes between fill placement and commencement of construction operations, or if significant traffic has been routed over these areas, we recommend that the subgrade be similarly proof-rolled again before any foundation or pavement installation is allowed. We recommend that we be retained to observe this operation to evaluate preparation of structural grades.

6.2 Structural Fills

Structural fill should be installed on a subgrade that has been prepared in accordance with the above recommendations. Fills should be installed in horizontal lifts not exceeding 8 inches in thickness (loose prior to compaction). Actual lift thickness will likely be a function of construction methods and compaction equipment employed, and the ability of the equipment to achieve specified compaction levels. Typically, this applies to lightweight compaction equipment that often requires thin lifts be employed in order for specified levels of compaction to be achieved. Engineered fills should be compacted to at least 92 percent of the maximum dry density for fine-grained native soils. The final 6 to 8 inches of fill immediately below pavements should be compacted to at least 95 percent of the material's maximum dry density. The maximum dry densities should be determined in accordance with ASTM D 1557 (Modified Proctor Test). The compaction criteria may be reduced to 85 percent in non-structural landscape or planter areas. A summary of recommended compaction specifications is provided in the table below.

Table 6.2: Recommended Fill Compaction Specifications

Material	Percent of Maximum Dry Density ASTM D 1557
Fine Grained Fill	92
Landscaping Fills	85
Imported Granular Fill	95
Pavement Subgrade	95

During dry weather, structural fills may consist of virtually any relatively well-graded soil that is free of debris, organic matter, and high percentages of clay or clay lumps, and can be compacted to the preceding specifications. However, if excess moisture causes the fill to pump or weave, these areas should be dried and recompacted, or removed and backfilled with compacted granular fill. We recommend that these fills consist of well-graded granular soils (sand or sand and gravel) that do not contain more than 5 percent material by weight passing the No. 200 sieve. In addition, it is usually desirable to limit this material to a maximum 6 inches in diameter for ease of compaction and future installation of utilities.

Adequate compaction levels for structural fills can usually be obtained within fine-grained native soils at +/-3 or 4 percent of the optimum moisture content. Typically, the biggest challenge with obtaining specified compaction levels within fine-grained soils can be traced to excessive soil moisture levels. If excess soil moisture is present in potential fill soils, soil drying via aeration should be conducted. Soil drying is commonly performed by turning soils in order to remove excess moisture within the soil via evaporation. Soil drying of fine-grained soils is generally only possible during extended periods of warm dry weather. Optimal time for this type of operation is during early July through mid-October.

We recommend that regular fill inspections be scheduled during site work. Inspections should include periodic observation of soil drying, fill placement, and spreading as well as compaction techniques. Regular density testing should also be conducted during site work to determine compaction levels of engineered fill.

6.3 Suitable Fill Materials

Structural Fills During Summer Grading. As noted previously, during dry weather, structural fills may consist of virtually any relatively well-graded soil that is free of debris, organic matter, and high percentages of clay or clay lumps, and that can be compacted to the preceding specifications.

Wet Weather Grading. Although we do not recommend grading during the winter months, occasionally wet periods are encountered during late spring, midsummer, or early fall and provisions need to be in place. Because moisture levels are difficult to control in fine-grained soils, and soil drying via aeration is not

realistically an option, structural fill constructed during wet conditions should consist of clean, durable crushed rock, or clean granular fill. Ideally, structural fill material placed during the wet season will contain less than 5 percent fines by weight passing a standard No. 200 sieve. Wet weather grading conditions should be assumed between mid-October and late June. Working blankets for subgrade protection and haul roads employed during wet weather grading should consist of a minimum of 12 inches of clean granular fill. Periodic maintenance of the working pad and graveled haul roads will be required during wet weather construction. This routine maintenance would typically consist of over-excavating subgrade areas disturbed as a result of construction traffic, and subsequent backfilling with clean granular fill.

Pavement Base Rock. Crushed rock utilized in these areas should consist of clean, 5/8- to 1.5-inch (minus), durable crushed rock. The materials fines content should not exceed levels recommended within Oregon State Department of Transportation (ODOT) material standards for pavement base rock.

Trench Backfill. Utility conduits should be bedded in sand or 5/8-inch (minus) crushed rock within one conduit diameter. Bedding should surround the pipe in all directions. Trench backfill should be lightly compacted within two pipe diameters or 18 inches, whichever is greater, above breakable conduits. Trench backfill underlying pavements, building lots, or other settlement sensitive structures or features should consist of durable, clean, crushed rock with nominal size between 5/8 inch (minus) and 1.5 inches (minus). This material should contain less than 5 to 7 percent fines by weight passing a standard No. 200 sieve.

Working Pad or Haul Roads for Wet Weather Grading. Any working pads or haul roads utilized during wet weather construction should consist of durable, clean crushed rock, bank-run, or pit run material. Nominal size should be between 1.5-inch (minus) and 4-inch (minus) material. The material should contain less than 5 to 7 percent fines by weight passing a standard No. 200 sieve. Geotextile filter fabric should also be considered under all working blankets and haul roads.

6.4 Areal Fill Settlements

Areal settlements within fills constructed to maximum heights of 4 to 5 feet or less are estimated to be less than approximately 1 to 2 inches. If fills are constructed in accordance with Ash Creek Associates' recommendations regarding fill compaction and optimal moisture levels for fill placement, the majority of areal fill settlement is expected to occur during fill construction.

6.5 Filling on Sloping Ground

Because of the overall marginal stability, as well as the landsliding that has occurred along the steeply sloping ground along the eastern side of the site, we recommend that no filling or vegetation removal occur beyond the slope setback line.

6.6 Finished Cut and Fill Slopes

Finished cut and fill slopes should not exceed gradients of 2H:1V. Because of the erodible nature of the native soils, cut and fill slopes should be protected immediately from erosion following completion of grading. Erosion protection can consist of placement of jute mesh and seeding with erosion resistant vegetation or other engineer approved erosion control methods. Deep cuts and fills should be assessed for global stability. Any cuts or fills that exceed about 15 feet in height should be analyzed for their potential effect on slope stability for the project site and areas adjacent to the project site.

6.7 Springs, Seeps, Drain Tiles

When springs, or drain tiles that can generate springs, are encountered during site work, we recommend that the seepage be intercepted and directed away from flowing over or under structural subgrades, fill subgrades, or road subgrade areas. This will limit the potential for long term softening and settlement of subgrade soils. When springs or seeps are encountered in cut or fill slopes, the slopes should be provided with subdrainage for stability. Adequate culverts and subdrains should be placed under all fills placed in natural drainages and along the flow line of any tributary branches of such drainages. In addition, subdrainage should be installed if active or potential springs or seeps are covered by the fill.

Cut-off drains and subdrains should consist of clean drain rock surrounding a 4- or 6-inch perforated pipe designed to drain via gravity flow. The drain rock blanket surrounding the perforated pipe should extend a minimum of 12 inches on all sides of the pipe and should be wrapped in a filter fabric to limit the potential for long term clogging from siltation. The cutoff drain should be tight-lined to the project's storm system.

6.8 Retaining Walls

Non-Restrained Walls. Non-restrained walls have no restraint at the top and are free to rotate about their base. Most cantilever retaining walls fall into this category. We recommend that non-restrained walls be designed for pressures developed from the equivalent fluid weights shown in the following table.

Table 6.8: Non-Restrained Retaining Wall Pressure Design Recommendations

Backfill Slope Horizontal/Vertical	Equivalent Fluid Weight (pcf)	
Level	35	
3H:1V	45	
2H:1V	85	

These pressures represent our best estimate of actual pressures that may develop and do not contain a factor of safety. These pressures assume retaining wall backfill material is clean, durable, well-drained granular backfill as described in the Structural Fill Section 6.2 of this report. If traffic loads are expected within a horizontal distance from the top of the wall equal to the wall height, a uniform lateral earth pressure acting horizontally on unrestrained walls equal to 60 psf should be added to earth loads acting on the wall.

Restrained Walls. Restrained walls are any walls that are prevented from rotation during backfilling. Walls with corners and jogs, and those that are restrained by a floor slab, floor diaphragm, and/or roof fall into the category of restrained walls. We recommend that restrained walls be designed for pressures developed from the equivalent fluid weights shown in the following table.

Table 6.8a Restrained Wall Pressure Design Recommendations

Backfill Slope Horizontal/Vertical	Equivalent Fluid Weight (pcf)
Level	55
3H:1V	65
2H:1V	105

These pressures represent our best estimates of actual pressures that may develop and do not contain a factor of safety. These pressures are assumed to act horizontally (normal to the wall). This is based on the assumption that drainage membranes or impervious wall coatings will prevent friction between the wall and backfill. These pressures assume retaining wall backfill material is high shear strength gravel backfill that is well drained. If traffic loads are expected within a horizontal distance from the top of the wall equal to the wall height, an additional uniform lateral earth pressure acting horizontally on restrained walls equal to 80 psf should be added to earth loads acting on the wall.

Retaining Wall Backfill. The backfill behind, and within 5 feet of the back of retaining walls should consist of free-draining granular material and should meet recommended specifications provided in the Suitable Fill Section 6.3 of this report.

6.9 Foundation Design Considerations

Foundation design in accordance with CABO, IBC, or other jurisdictionally employed residential building codes is appropriate for the native soils underlying the project site. Based upon our observations and subsurface explorations, the building foundations can be designed for 2,000 pounds per square foot (psf) allowable bearing. As the project site is moderately sloping, special attention should be given to code

requirements for foundation embedment depths. Actual embedment depth on sloping grounding is typically a function of the down slope gradient adjacent to the structure and near-surface ground stability.

6.10 Drainage

We recommended that building designs include perimeter-footing drains around each structure. Perimeter drains should be installed around the exterior foundations at or below the base of the foundation grade, and should be designed to drain water away from structures by gravity. Drains should consist of a 4- to 6-inch

diameter perforated pipe surrounded on all sides by approximately 8 inches of clean drain rock.

Floor Slabs. If slab on grade construction is utilized, a vapor retarder and a minimum of a 6-inch clean

crushed rock or clean sand should be placed immediately below the bottom of the slab to form a capillary

break between ground moisture and the base of slabs.

6.11 Excavations and Utilities

Excavations. Subsurface conditions encountered during the site investigation indicate that precautions in

utility excavations will be required due to the potential for caving/sloughing within the near-surface soils underlying the site, particularly in the presence of seepage. Any excavations deeper than 4 feet should be

sloped or shored in accordance with OSHA regulations. Normally, shoring systems (for excavations less

than 20 feet in depth) are contractor designed and installed items.

The maximum reach of the backhoe provided for our subsurface exploration was approximately 8 feet.

Trenching and utility installations in excess of 8 feet may encounter groundwater, or soil conditions not

described within this soils report. If deep trenching or deep excavation work is anticipated, we recommend

deeper subsurface explorations be conducted.

Utilities. Utilities sensitive to moisture should be placed in watertight conduits. Utility conduits should be

bedded in sand or 1/2-inch (minus) or 5/8-inch (minus) crushed rock within one conduit diameter. Bedding

should surround the pipe in all directions. Trench backfill should be lightly compacted within two diameters

or 18 inches, whichever is greater, above breakable conduits. The remaining backfill should be compacted to 95 percent of the maximum dry density of the material as determined by ASTM D 1557 for

granular/crushed rock backfill.

6.12 Erosion Control

Ash Creek Associates recommends that finished cut and fill slopes be protected immediately following

grading with vegetation, gravel, or other approved erosion control methods. Water should not be allowed to

flow over slope faces or drop from outfalls, but should be collected and routed to storm water disposal

systems. Riprap, gabion baskets, or similar erosion control methods may be necessary at storm water outfalls or to reduce water velocity in ditches. Silt fences should be established and maintained throughout the construction period. Silt fence barriers should be established down slope from all construction areas to protect natural drainage channels from erosion and/or siltation. In order to decrease erosion potential, care should be taken to maintain vegetation and organic soil cover in as much of the site as possible.

7.0 Pavement Design Recommendations

The pavement designs included in this section assume that the subgrade within 12 inches of the bottom of the base course section will be compacted to 95% of the material maximum dry density in accordance with ASTM D1557, Modified Proctor Testing.

Specifications for pavements, base course, and sub-base should conform to ODOT requirements. Crushed rock base should consist of clean, 5/8- to 1.5-inch (minus), durable crushed rock. The materials fines content should not exceed levels recommended within Oregon State Department of Transportation (ODOT) material standards for pavement base rock. We recommend use of the ODOT "Dense Graded Hot Mix Asphalt". A 1/2 (12.5mm) mix should be employed in the leveling, base and wearing courses.

Our recommended pavement design sections are provided in the following table.

Table 4: Flexible Asphalt Concrete Pavement Designs

Approximate Number of Trucks	Equivalent Single Axle Loads (ESALs x 1000)	Asphalt Concrete Thickness (inches)	Base Rock Thickness (inches)
Auto parking	10	2.5	10
6	25	3	10
15	66	3.5	11
25	110	4.25	11
50	220	4.75	12
100	440	6	12

Intermediate truck loading conditions and the resultant asphalt concrete section and base rock section can be interpolated from the above table. Construction traffic should be limited to unpaved and untreated roadways, or specially constructed haul roads. If this is not possible, the pavement design selected from the above table should include an allowance for construction traffic.

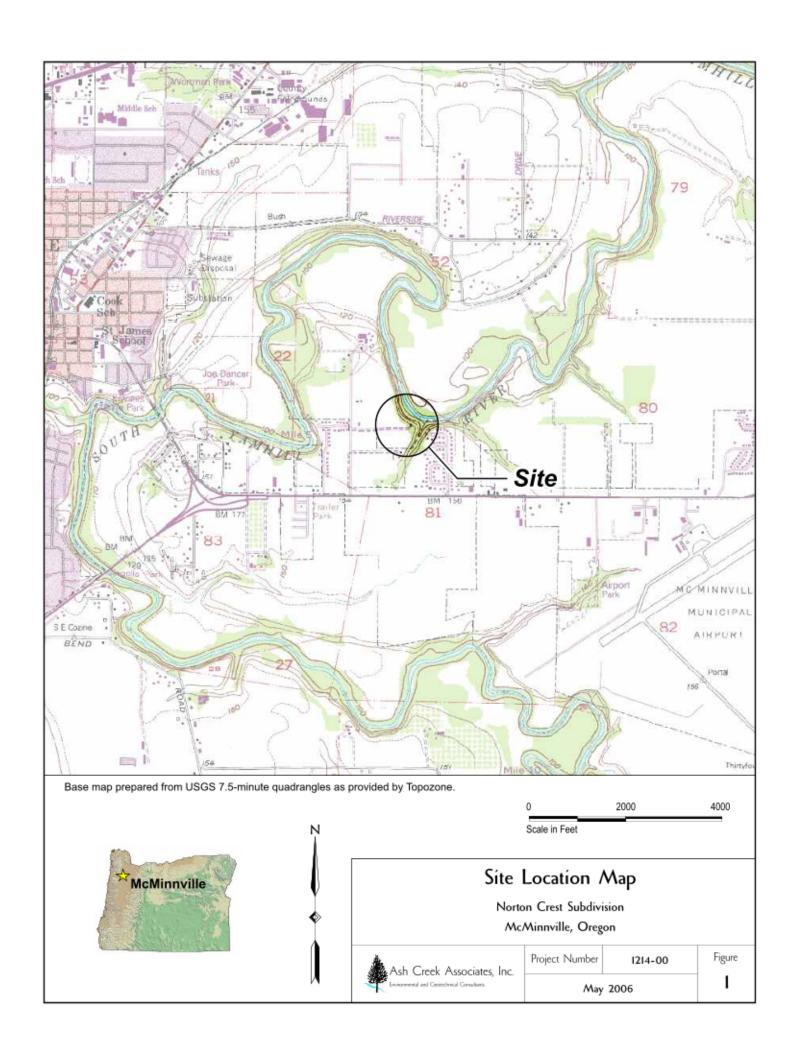
8.0 Recommendations for Additional Services

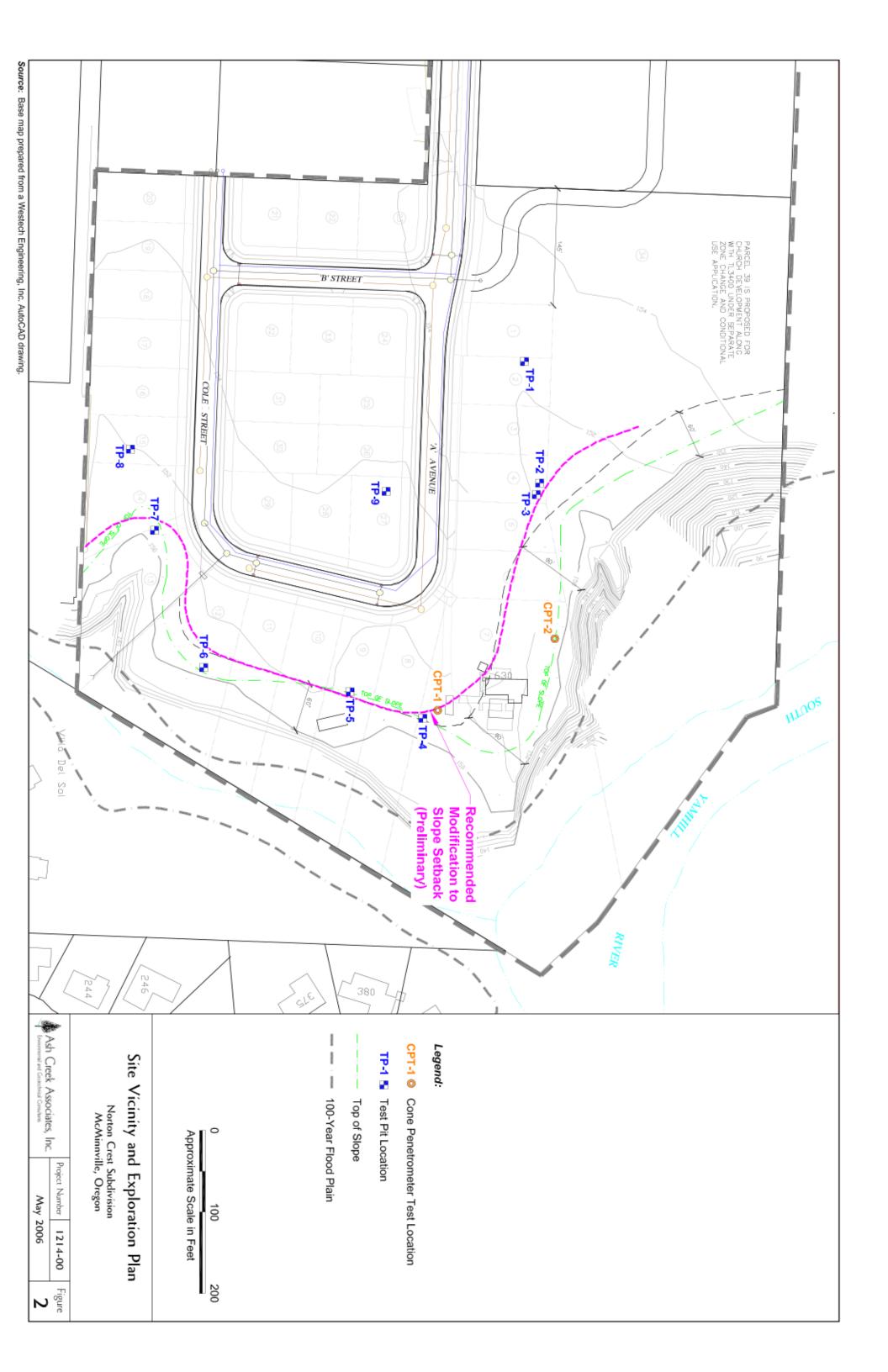
Prior to construction, we recommend that Ash Creek Associates be retained to review the final design plans and specifications. This review will allow us to evaluate whether any change in concept may affect the validity of our recommendations, and whether our recommendations have been correctly interpreted. In order to correlate preliminary soil data with the actual soil conditions encountered during construction, and to assess construction conformance to our report, we recommend that we be retained for construction observation of the following:

- Site preparation activities including stripping and grubbing;
- Subgrades beneath pavements; and
- Other geotechnical considerations which may arise during the course of construction.

9.0 Closing

This report presented Ash Creek Associates' geotechnical engineering evaluation and recommendations for the proposed project. We trust that this report meets your needs. If you have any questions, or if we can be of further assistance, please call. We look forward to working with you in the future.





Appendix A

Test Pit Logs and
Cone Penetrometer Soundings

À A	Ash Creek Associates, Inc.	Norton Crest Subdivision McMinnville, Oregon	Project Number 1214-00	
to	visonmental and Geotechnical Consultants		Test Pit Number TP-1	\exists
Test Pit Lo	ocation: See Figure 2		Surface Elevation: Not Measured	\dashv
	Contractor: Greg Vandehey Soil Explorations		Date Completed: 4/26/06	\dashv
	Equipment: Kobelco SK60 Trackhoe			\dashv
			Logged By: J. Duquette	\dashv
Depth in Feet	Material Description			
	6 to 8 Inches of silty, clayey TOPSOIL.			J
	(Medium stiff to stiff), damp, gray, clayey S	SILT to silty CLAY		- 4
	(modum our to our), dump, gray, orayoy e	TET TO SITY SETTI		
_	- AL E			\dashv
5 —	(Medium stiff to stiff), damp, gray-brown, n	nottied SIL1.		
_				
_				
_				
10 —				
_				\dashv
	Bottom of Test Pit at 12.0' BGS.			
	No Groundwater or Seepage Noted.			
15 -				
_				
_				
				- 1
				- 1
_			Test Pit Number TP-2	\dashv
	ocation: See Figure 2		Surface Elevation: Not Measured	
Excavation	Contractor: N. Prouty		Surface Elevation: Not Measured Date Completed: 4/26/06	
Excavation Excavation	Contractor: N. Prouty Equipment: Ford 555E Backhoe		Surface Elevation: Not Measured	
Excavation Excavation Depth	Contractor: N. Prouty		Surface Elevation: Not Measured Date Completed: 4/26/06	
Excavation Excavation	Contractor: N. Prouty Equipment: Ford 555E Backhoe		Surface Elevation: Not Measured Date Completed: 4/26/06	
Excavation Excavation Depth	Contractor: N. Prouty Equipment: Ford 555E Backhoe Material Description 6 to 8 Inches of silty, clayey TOPSOIL.		Surface Elevation: Not Measured Date Completed: 4/26/06	
Excavation Excavation Depth	Contractor: N. Prouty Equipment: Ford 555E Backhoe Material Description		Surface Elevation: Not Measured Date Completed: 4/26/06	
Excavation Excavation Depth	Contractor: N. Prouty Equipment: Ford 555E Backhoe Material Description 6 to 8 Inches of silty, clayey TOPSOIL. (Stiff), damp, gray, silty CLAY.		Surface Elevation: Not Measured Date Completed: 4/26/06	
Excavation Excavation Depth	Contractor: N. Prouty Equipment: Ford 555E Backhoe Material Description 6 to 8 Inches of silty, clayey TOPSOIL. (Stiff), damp, gray, silty CLAY. Bottom of Test Pit at 3.0' BGS.		Surface Elevation: Not Measured Date Completed: 4/26/06	
Excavation Excavation Depth	Contractor: N. Prouty Equipment: Ford 555E Backhoe Material Description 6 to 8 Inches of silty, clayey TOPSOIL. (Stiff), damp, gray, silty CLAY. Bottom of Test Pit at 3.0' BGS. Clay Drain Tile Noted in Sidewall		Surface Elevation: Not Measured Date Completed: 4/26/06	
Excavation Excavation Depth	Contractor: N. Prouty Equipment: Ford 555E Backhoe Material Description 6 to 8 Inches of silty, clayey TOPSOIL. (Stiff), damp, gray, silty CLAY. Bottom of Test Pit at 3.0' BGS. Clay Drain Tile Noted in Sidewall of Trench. Moderate to Heavy Flow		Surface Elevation: Not Measured Date Completed: 4/26/06	
Excavation Excavation Depth	Contractor: N. Prouty Equipment: Ford 555E Backhoe Material Description 6 to 8 Inches of silty, clayey TOPSOIL. (Stiff), damp, gray, silty CLAY. Bottom of Test Pit at 3.0' BGS. Clay Drain Tile Noted in Sidewall		Surface Elevation: Not Measured Date Completed: 4/26/06	
Excavation Excavation Depth	Contractor: N. Prouty Equipment: Ford 555E Backhoe Material Description 6 to 8 Inches of silty, clayey TOPSOIL. (Stiff), damp, gray, silty CLAY. Bottom of Test Pit at 3.0' BGS. Clay Drain Tile Noted in Sidewall of Trench. Moderate to Heavy Flow		Surface Elevation: Not Measured Date Completed: 4/26/06	
Excavation Excavation Depth	Contractor: N. Prouty Equipment: Ford 555E Backhoe Material Description 6 to 8 Inches of silty, clayey TOPSOIL. (Stiff), damp, gray, silty CLAY. Bottom of Test Pit at 3.0' BGS. Clay Drain Tile Noted in Sidewall of Trench. Moderate to Heavy Flow		Surface Elevation: Not Measured Date Completed: 4/26/06	
Excavation Excavation Depth	Contractor: N. Prouty Equipment: Ford 555E Backhoe Material Description 6 to 8 Inches of silty, clayey TOPSOIL. (Stiff), damp, gray, silty CLAY. Bottom of Test Pit at 3.0' BGS. Clay Drain Tile Noted in Sidewall of Trench. Moderate to Heavy Flow		Surface Elevation: Not Measured Date Completed: 4/26/06	
Excavation Excavation Depth in Feet	Contractor: N. Prouty Equipment: Ford 555E Backhoe Material Description 6 to 8 Inches of silty, clayey TOPSOIL. (Stiff), damp, gray, silty CLAY. Bottom of Test Pit at 3.0' BGS. Clay Drain Tile Noted in Sidewall of Trench. Moderate to Heavy Flow		Surface Elevation: Not Measured Date Completed: 4/26/06	- /
Excavation Excavation Depth	Contractor: N. Prouty Equipment: Ford 555E Backhoe Material Description 6 to 8 Inches of silty, clayey TOPSOIL. (Stiff), damp, gray, silty CLAY. Bottom of Test Pit at 3.0' BGS. Clay Drain Tile Noted in Sidewall of Trench. Moderate to Heavy Flow		Surface Elevation: Not Measured Date Completed: 4/26/06	
Excavation Excavation Depth in Feet	Contractor: N. Prouty Equipment: Ford 555E Backhoe Material Description 6 to 8 Inches of silty, clayey TOPSOIL. (Stiff), damp, gray, silty CLAY. Bottom of Test Pit at 3.0' BGS. Clay Drain Tile Noted in Sidewall of Trench. Moderate to Heavy Flow		Surface Elevation: Not Measured Date Completed: 4/26/06	
Excavation Excavation Depth in Feet	Contractor: N. Prouty Equipment: Ford 555E Backhoe Material Description 6 to 8 Inches of silty, clayey TOPSOIL. (Stiff), damp, gray, silty CLAY. Bottom of Test Pit at 3.0' BGS. Clay Drain Tile Noted in Sidewall of Trench. Moderate to Heavy Flow		Surface Elevation: Not Measured Date Completed: 4/26/06	
Excavation Excavation Depth in Feet	Contractor: N. Prouty Equipment: Ford 555E Backhoe Material Description 6 to 8 Inches of silty, clayey TOPSOIL. (Stiff), damp, gray, silty CLAY. Bottom of Test Pit at 3.0' BGS. Clay Drain Tile Noted in Sidewall of Trench. Moderate to Heavy Flow		Surface Elevation: Not Measured Date Completed: 4/26/06	
Excavation Excavation Depth in Feet	Contractor: N. Prouty Equipment: Ford 555E Backhoe Material Description 6 to 8 Inches of silty, clayey TOPSOIL. (Stiff), damp, gray, silty CLAY. Bottom of Test Pit at 3.0' BGS. Clay Drain Tile Noted in Sidewall of Trench. Moderate to Heavy Flow		Surface Elevation: Not Measured Date Completed: 4/26/06	
Excavation Excavation Depth in Feet	Contractor: N. Prouty Equipment: Ford 555E Backhoe Material Description 6 to 8 Inches of silty, clayey TOPSOIL. (Stiff), damp, gray, silty CLAY. Bottom of Test Pit at 3.0' BGS. Clay Drain Tile Noted in Sidewall of Trench. Moderate to Heavy Flow		Surface Elevation: Not Measured Date Completed: 4/26/06	
Excavation Excavation Depth in Feet	Contractor: N. Prouty Equipment: Ford 555E Backhoe Material Description 6 to 8 Inches of silty, clayey TOPSOIL. (Stiff), damp, gray, silty CLAY. Bottom of Test Pit at 3.0' BGS. Clay Drain Tile Noted in Sidewall of Trench. Moderate to Heavy Flow		Surface Elevation: Not Measured Date Completed: 4/26/06	
Excavation Excavation Depth in Feet	Contractor: N. Prouty Equipment: Ford 555E Backhoe Material Description 6 to 8 Inches of silty, clayey TOPSOIL. (Stiff), damp, gray, silty CLAY. Bottom of Test Pit at 3.0' BGS. Clay Drain Tile Noted in Sidewall of Trench. Moderate to Heavy Flow		Surface Elevation: Not Measured Date Completed: 4/26/06	
Excavation Excavation Depth in Feet	Contractor: N. Prouty Equipment: Ford 555E Backhoe Material Description 6 to 8 Inches of silty, clayey TOPSOIL. (Stiff), damp, gray, silty CLAY. Bottom of Test Pit at 3.0' BGS. Clay Drain Tile Noted in Sidewall of Trench. Moderate to Heavy Flow		Surface Elevation: Not Measured Date Completed: 4/26/06	
Excavation Excavation Depth in Feet	Contractor: N. Prouty Equipment: Ford 555E Backhoe Material Description 6 to 8 Inches of silty, clayey TOPSOIL. (Stiff), damp, gray, silty CLAY. Bottom of Test Pit at 3.0' BGS. Clay Drain Tile Noted in Sidewall of Trench. Moderate to Heavy Flow		Surface Elevation: Not Measured Date Completed: 4/26/06	

	Ash Creek Associates, Inc.	Norton Crest Subdivision McMinnville, Oregon	Project Number	1214-00
4.			Test Pit Number	TP-3
Test Pit Lo	ocation: See Figure 2		Surface Elevation: Not Meast	ured
	n Contractor: Greg Vandehey Soil Explorations		Date Completed: 4/26/06	arca
	Equipment: Kobelco SK60 Trackhoe		Logged By: J. Duquette	
			togged by: 3. Daquette	
Depth in Feet	Material Description			
	6 to 8 Inches of silty, clayey TOPSOIL.			
	(Stiff), damp, gray, silty CLAY.			/
-	(out), damp, gray, only out			
_				
_				
5 —	(Stiff), damp, gray-brown, mottled SILT.			
-	(outly, damp, gray brown, mould orbit			
_				
_				
_				
10 -				
-				
_				
	Bottom of Test Pit at 12.0' BGS.			
	No Groundwater or Seepage Noted.			
_	, ,			
15				
_				
-				
	l .			
_				
_			Test Pit Number	TP-4
Test Pit Lo	ocation: See Figure 2		Test Pit Number	
	ocation: See Figure 2			
Excavation	Contractor: N. Prouty		Surface Elevation: Not Meast Date Completed: 4/26/06	
Excavation Excavation	n Contractor: N. Prouty n Equipment: Ford 555E Backhoe		Surface Elevation: Not Meast	
Excavation	n Contractor: N. Prouty n Equipment: Ford 555E Backhoe Material Description		Surface Elevation: Not Meast Date Completed: 4/26/06	
Excavation Excavation	n Contractor: N. Prouty n Equipment: Ford 555E Backhoe		Surface Elevation: Not Meast Date Completed: 4/26/06	
Excavation Excavation	Material Description 6 to 8 Inches of silty, clayey TOPSOIL.		Surface Elevation: Not Meast Date Completed: 4/26/06	
Excavation Excavation	n Contractor: N. Prouty n Equipment: Ford 555E Backhoe Material Description		Surface Elevation: Not Meast Date Completed: 4/26/06	
Excavation Excavation	Material Description 6 to 8 Inches of silty, clayey TOPSOIL.		Surface Elevation: Not Meast Date Completed: 4/26/06	
Excavation Excavation	Material Description 6 to 8 Inches of silty, clayey TOPSOIL.		Surface Elevation: Not Meast Date Completed: 4/26/06	
Excavation Excavation Depth in Feet	Material Description 6 to 8 Inches of silty, clayey TOPSOIL.		Surface Elevation: Not Meast Date Completed: 4/26/06	
Excavation Excavation	Material Description 6 to 8 Inches of silty, clayey TOPSOIL.		Surface Elevation: Not Meast Date Completed: 4/26/06	
Excavation Excavation Depth in Feet	Material Description 6 to 8 Inches of silty, clayey TOPSOIL.		Surface Elevation: Not Meast Date Completed: 4/26/06	
Excavation Excavation Depth in Feet	Material Description 6 to 8 Inches of silty, clayey TOPSOIL.		Surface Elevation: Not Meast Date Completed: 4/26/06	
Excavation Excavation Depth in Feet	Material Description 6 to 8 Inches of silty, clayey TOPSOIL.		Surface Elevation: Not Meast Date Completed: 4/26/06	
Excavation Excavation Depth in Feet	Material Description 6 to 8 Inches of silty, clayey TOPSOIL.		Surface Elevation: Not Meast Date Completed: 4/26/06	
Excavation Excavation Depth in Feet	Material Description 6 to 8 Inches of silty, clayey TOPSOIL.		Surface Elevation: Not Meast Date Completed: 4/26/06	
Excavation Excavation Depth in Feet	Material Description 6 to 8 Inches of silty, clayey TOPSOIL.		Surface Elevation: Not Meast Date Completed: 4/26/06	
Excavation Excavation Depth in Feet	Material Description 6 to 8 Inches of silty, clayey TOPSOIL.		Surface Elevation: Not Meast Date Completed: 4/26/06	
Excavation Excavation Depth in Feet	Material Description 6 to 8 Inches of silty, clayey TOPSOIL. (Stiff), damp, gray-brown, mottled SILT.		Surface Elevation: Not Meast Date Completed: 4/26/06	
Excavation Excavation Depth in Feet	Material Description 6 to 8 Inches of silty, clayey TOPSOIL.		Surface Elevation: Not Meast Date Completed: 4/26/06	
Excavation Excavation Depth in Feet	Material Description 6 to 8 Inches of silty, clayey TOPSOIL. (Stiff), damp, gray-brown, mottled SILT.		Surface Elevation: Not Meast Date Completed: 4/26/06	
Excavation Excavation Depth in Feet	Material Description 6 to 8 Inches of silty, clayey TOPSOIL. (Stiff), damp, gray-brown, mottled SILT. Bottom of Test Pit at 12.0' BGS.		Surface Elevation: Not Meast Date Completed: 4/26/06	
Excavation Excavation Depth in Feet	Material Description 6 to 8 Inches of silty, clayey TOPSOIL. (Stiff), damp, gray-brown, mottled SILT. Bottom of Test Pit at 12.0' BGS.		Surface Elevation: Not Meast Date Completed: 4/26/06	
Excavation Excavation Depth in Feet	Material Description 6 to 8 Inches of silty, clayey TOPSOIL. (Stiff), damp, gray-brown, mottled SILT. Bottom of Test Pit at 12.0' BGS.		Surface Elevation: Not Meast Date Completed: 4/26/06	
Excavation Excavation Depth in Feet	Material Description 6 to 8 Inches of silty, clayey TOPSOIL. (Stiff), damp, gray-brown, mottled SILT. Bottom of Test Pit at 12.0' BGS.		Surface Elevation: Not Meast Date Completed: 4/26/06	
Excavation Excavation Depth in Feet	Material Description 6 to 8 Inches of silty, clayey TOPSOIL. (Stiff), damp, gray-brown, mottled SILT. Bottom of Test Pit at 12.0' BGS.		Surface Elevation: Not Meast Date Completed: 4/26/06	

Å A	Ash Creek Associates, Inc.	Norton Crest Subdivision McMinnville, Oregon	Project Number	1214-00
+			Test Pit Number	TP-5
Test Pit Lo	cation: See Figure 2		Surface Elevation: Not Meas	ured
Excavation	Contractor: Greg Vandehey Soil Explorations		Date Completed: 4/26/06	
Excavation	Equipment: Kobelco SK60 Trackhoe		Logged By: J. Duquette	
Depth in Feet	Material Description			
	6 to 8 Inches of silty TOPSOIL.			
	(Stiff), damp, gray-brown, mottled SILT.			1
_	(Still), damp, gray-brown, mottled SiE1.			
_				
5 —				
_				
_				
10 -				
-				
_	Bottom of Test Pit at 11.0' BGS.			
	No Groundwater or Seepage Noted.			
15				
_				
_				
_				
_			Test Pit Number	TP-6
			Test Pit Number	TP-6
	ocation: See Figure 2		Surface Elevation: Not Meast	
Excavation	Contractor: N. Prouty		Surface Elevation: Not Measu Date Completed: 4/26/06	
Excavation Excavation	Contractor: N. Prouty Equipment: Ford 555E Backhoe		Surface Elevation: Not Meast	
Excavation Excavation	Contractor: N. Prouty		Surface Elevation: Not Measu Date Completed: 4/26/06	
Excavation	Contractor: N. Prouty Equipment: Ford 555E Backhoe Material Description		Surface Elevation: Not Measu Date Completed: 4/26/06	
Excavation Excavation	Contractor: N. Prouty Equipment: Ford 555E Backhoe Material Description 6 Inches of silty TOPSOIL.		Surface Elevation: Not Measu Date Completed: 4/26/06	
Excavation Excavation	Contractor: N. Prouty Equipment: Ford 555E Backhoe Material Description	ttled, clayey SILT to silty CLAY.	Surface Elevation: Not Measu Date Completed: 4/26/06	
Excavation Excavation	Contractor: N. Prouty Equipment: Ford 555E Backhoe Material Description 6 Inches of silty TOPSOIL.	ttled, clayey SILT to silty CLAY.	Surface Elevation: Not Measu Date Completed: 4/26/06	
Excavation Excavation	Contractor: N. Prouty Equipment: Ford 555E Backhoe Material Description 6 Inches of silty TOPSOIL. (Soft to medium stiff), damp, dark gray, motors	ttled, clayey SILT to silty CLAY.	Surface Elevation: Not Measu Date Completed: 4/26/06	
Excavation Excavation Depth in Feet	Contractor: N. Prouty Equipment: Ford 555E Backhoe Material Description 6 Inches of silty TOPSOIL.	ttled, clayey SILT to silty CLAY.	Surface Elevation: Not Measu Date Completed: 4/26/06	
Excavation Excavation	Contractor: N. Prouty Equipment: Ford 555E Backhoe Material Description 6 Inches of silty TOPSOIL. (Soft to medium stiff), damp, dark gray, motors	ttled, clayey SILT to silty CLAY.	Surface Elevation: Not Measu Date Completed: 4/26/06	
Excavation Excavation Depth in Feet	Contractor: N. Prouty Equipment: Ford 555E Backhoe Material Description 6 Inches of silty TOPSOIL. (Soft to medium stiff), damp, dark gray, motors	ttled, clayey SILT to silty CLAY.	Surface Elevation: Not Measu Date Completed: 4/26/06	
Excavation Excavation Depth in Feet	Contractor: N. Prouty Equipment: Ford 555E Backhoe Material Description 6 Inches of silty TOPSOIL. (Soft to medium stiff), damp, dark gray, motors	ttled, clayey SILT to silty CLAY.	Surface Elevation: Not Measu Date Completed: 4/26/06	
Excavation Excavation Depth in Feet	Contractor: N. Prouty Equipment: Ford 555E Backhoe Material Description 6 Inches of silty TOPSOIL. (Soft to medium stiff), damp, dark gray, motors	ttled, clayey SILT to silty CLAY.	Surface Elevation: Not Measu Date Completed: 4/26/06	
Excavation Excavation Depth in Feet	Contractor: N. Prouty Equipment: Ford 555E Backhoe Material Description 6 Inches of silty TOPSOIL. (Soft to medium stiff), damp, dark gray, motors	ttled, clayey SILT to silty CLAY.	Surface Elevation: Not Measu Date Completed: 4/26/06	
Excavation Excavation Depth in Feet	Contractor: N. Prouty Equipment: Ford 555E Backhoe Material Description 6 Inches of silty TOPSOIL. (Soft to medium stiff), damp, dark gray, motors	ttled, clayey SILT to silty CLAY.	Surface Elevation: Not Measu Date Completed: 4/26/06	
Excavation Excavation Depth in Feet	Contractor: N. Prouty Equipment: Ford 555E Backhoe Material Description 6 Inches of silty TOPSOIL. (Soft to medium stiff), damp, dark gray, motors	ttled, clayey SILT to silty CLAY.	Surface Elevation: Not Measu Date Completed: 4/26/06	
Excavation Excavation Depth in Feet	Contractor: N. Prouty Equipment: Ford 555E Backhoe Material Description 6 Inches of silty TOPSOIL. (Soft to medium stiff), damp, dark gray, mot (Stiff), damp, gray-brown, mottled SILT.	ttled, clayey SILT to silty CLAY.	Surface Elevation: Not Measu Date Completed: 4/26/06	
Excavation Excavation Depth in Feet	Contractor: N. Prouty Equipment: Ford 555E Backhoe Material Description 6 Inches of silty TOPSOIL. (Soft to medium stiff), damp, dark gray, mot (Stiff), damp, gray-brown, mottled SILT. Bottom of Test Pit at 11.0' BGS.	ttled, clayey SILT to silty CLAY.	Surface Elevation: Not Measu Date Completed: 4/26/06	
Excavation Excavation Depth in Feet	Contractor: N. Prouty Equipment: Ford 555E Backhoe Material Description 6 Inches of silty TOPSOIL. (Soft to medium stiff), damp, dark gray, mot (Stiff), damp, gray-brown, mottled SILT.	ttled, clayey SILT to silty CLAY.	Surface Elevation: Not Measu Date Completed: 4/26/06	
Excavation Excavation Depth in Feet	Contractor: N. Prouty Equipment: Ford 555E Backhoe Material Description 6 Inches of silty TOPSOIL. (Soft to medium stiff), damp, dark gray, mot (Stiff), damp, gray-brown, mottled SILT. Bottom of Test Pit at 11.0' BGS.	ttled, clayey SILT to silty CLAY.	Surface Elevation: Not Measu Date Completed: 4/26/06	
Excavation Excavation Depth in Feet 5	Contractor: N. Prouty Equipment: Ford 555E Backhoe Material Description 6 Inches of silty TOPSOIL. (Soft to medium stiff), damp, dark gray, mot (Stiff), damp, gray-brown, mottled SILT. Bottom of Test Pit at 11.0' BGS.	ttled, clayey SILT to silty CLAY.	Surface Elevation: Not Measu Date Completed: 4/26/06	
Excavation Excavation Depth in Feet	Contractor: N. Prouty Equipment: Ford 555E Backhoe Material Description 6 Inches of silty TOPSOIL. (Soft to medium stiff), damp, dark gray, mot (Stiff), damp, gray-brown, mottled SILT. Bottom of Test Pit at 11.0' BGS.	ttled, clayey SILT to silty CLAY.	Surface Elevation: Not Measu Date Completed: 4/26/06	
Excavation Excavation Depth in Feet 5	Contractor: N. Prouty Equipment: Ford 555E Backhoe Material Description 6 Inches of silty TOPSOIL. (Soft to medium stiff), damp, dark gray, mot (Stiff), damp, gray-brown, mottled SILT. Bottom of Test Pit at 11.0' BGS.	ttled, clayey SILT to silty CLAY.	Surface Elevation: Not Measu Date Completed: 4/26/06	
Excavation Excavation Depth in Feet 5	Contractor: N. Prouty Equipment: Ford 555E Backhoe Material Description 6 Inches of silty TOPSOIL. (Soft to medium stiff), damp, dark gray, mot (Stiff), damp, gray-brown, mottled SILT. Bottom of Test Pit at 11.0' BGS.	ttled, clayey SILT to silty CLAY.	Surface Elevation: Not Measu Date Completed: 4/26/06	
Excavation Excavation Depth in Feet 5	Contractor: N. Prouty Equipment: Ford 555E Backhoe Material Description 6 Inches of silty TOPSOIL. (Soft to medium stiff), damp, dark gray, mot (Stiff), damp, gray-brown, mottled SILT. Bottom of Test Pit at 11.0' BGS.	ttled, clayey SILT to silty CLAY.	Surface Elevation: Not Measu Date Completed: 4/26/06	

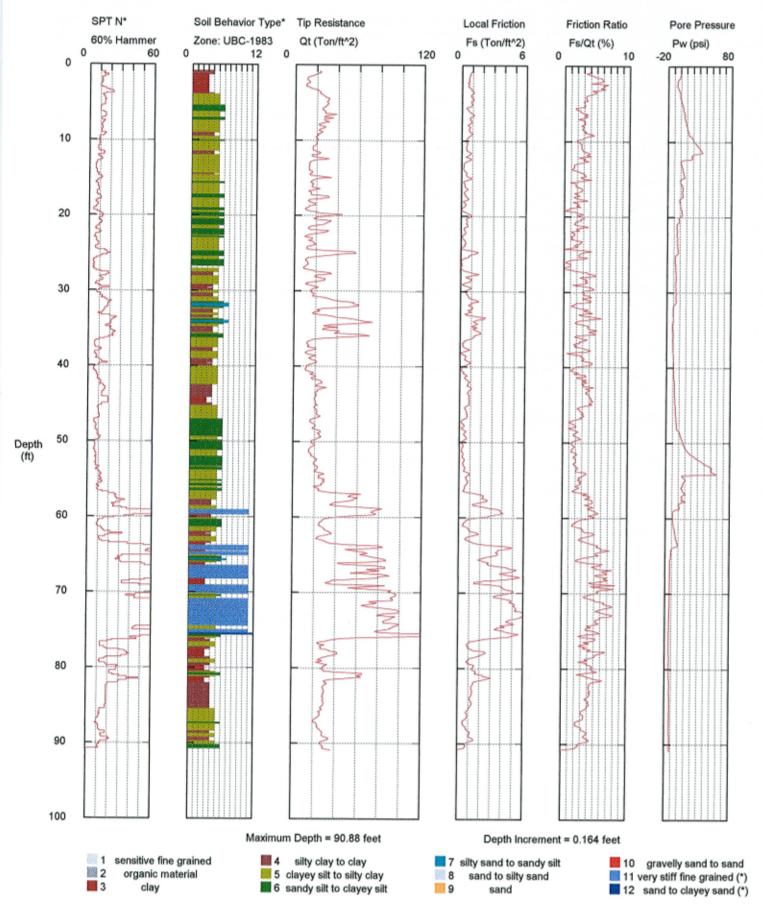
	Ash Creek Associates, Inc.	Norton Crest Subdivision McMinnville, Oregon	Project Number	1214-00
4.			Test Pit Number	TP-7
Test Pit Lo	ocation: See Figure 2		Surface Elevation: Not Meas	ured
	Contractor: Greg Vandehey Soil Explorations		Date Completed: 4/26/06	
	Equipment: Kobelco SK60 Trackhoe		Logged By: J. Duquette	
			tagged by: 3. Duquette	
Depth in Feet	Material Description			
	6 Inches of silty TOPSOIL.			/
	(Soft to medium stiff), damp, gray-brown	mottled SILT.		
_	(conto modition camp, gray brown	,		
_				
5 —				
_				
-				
_				
10				
10				
-				
_				
	Bottom of Test Pit at 12.0' BGS.			
	No Groundwater or Seepage Noted.			
-				
15				
-				
_				
	l			
_				
_				
_			Test Pit Number	TP-8
Too Die Lo	See Figure 2			
	ocation: See Figure 2		Surface Elevation: Not Meas	
Excavation	Contractor: N. Prouty		Surface Elevation: Not Meas Date Completed: 4/26/06	
Excavation Excavation	n Contractor: N. Prouty n Equipment: Ford 555E Backhoe		Surface Elevation: Not Meas	
Excavation Excavation	Contractor: N. Prouty		Surface Elevation: Not Meas Date Completed: 4/26/06	
Excavation	Contractor: N. Prouty Equipment: Ford 555E Backhoe Material Description		Surface Elevation: Not Meas Date Completed: 4/26/06	
Excavation Excavation	Contractor: N. Prouty Equipment: Ford 555E Backhoe Material Description 6 Inches of silty TOPSOIL.		Surface Elevation: Not Meas Date Completed: 4/26/06	
Excavation Excavation	Contractor: N. Prouty Equipment: Ford 555E Backhoe Material Description	, mottled SILT.	Surface Elevation: Not Meas Date Completed: 4/26/06	
Excavation Excavation	Contractor: N. Prouty Equipment: Ford 555E Backhoe Material Description 6 Inches of silty TOPSOIL.	, mottled SILT.	Surface Elevation: Not Meas Date Completed: 4/26/06	
Excavation Excavation	Contractor: N. Prouty Equipment: Ford 555E Backhoe Material Description 6 Inches of silty TOPSOIL.	, mottled SILT.	Surface Elevation: Not Meas Date Completed: 4/26/06	
Excavation Excavation	Contractor: N. Prouty Equipment: Ford 555E Backhoe Material Description 6 Inches of silty TOPSOIL.	, mottled SILT.	Surface Elevation: Not Meas Date Completed: 4/26/06	
Excavation Excavation Depth in Feet	Contractor: N. Prouty Equipment: Ford 555E Backhoe Material Description 6 Inches of silty TOPSOIL.	, mottled SILT.	Surface Elevation: Not Meas Date Completed: 4/26/06	
Excavation Excavation	Contractor: N. Prouty Equipment: Ford 555E Backhoe Material Description 6 Inches of silty TOPSOIL.	, mottled SILT.	Surface Elevation: Not Meas Date Completed: 4/26/06	
Excavation Excavation Depth in Feet	Contractor: N. Prouty Equipment: Ford 555E Backhoe Material Description 6 Inches of silty TOPSOIL.	, mottled SILT.	Surface Elevation: Not Meas Date Completed: 4/26/06	
Excavation Excavation Depth in Feet	Contractor: N. Prouty Equipment: Ford 555E Backhoe Material Description 6 Inches of silty TOPSOIL.	, mottled SILT.	Surface Elevation: Not Meas Date Completed: 4/26/06	
Excavation Excavation Depth in Feet	Contractor: N. Prouty Equipment: Ford 555E Backhoe Material Description 6 Inches of silty TOPSOIL.	, mottled SILT.	Surface Elevation: Not Meas Date Completed: 4/26/06	
Excavation Excavation Depth in Feet	Contractor: N. Prouty Equipment: Ford 555E Backhoe Material Description 6 Inches of silty TOPSOIL.	, mottled SILT.	Surface Elevation: Not Meas Date Completed: 4/26/06	
Excavation Excavation Depth in Feet	Contractor: N. Prouty Equipment: Ford 555E Backhoe Material Description 6 Inches of silty TOPSOIL.	, mottled SILT.	Surface Elevation: Not Meas Date Completed: 4/26/06	
Excavation Excavation Depth in Feet	Contractor: N. Prouty Equipment: Ford 555E Backhoe Material Description 6 Inches of silty TOPSOIL.	, mottled SILT.	Surface Elevation: Not Meas Date Completed: 4/26/06	
Excavation Excavation Depth in Feet	Contractor: N. Prouty Equipment: Ford 555E Backhoe Material Description 6 Inches of silty TOPSOIL.	, mottled SILT.	Surface Elevation: Not Meas Date Completed: 4/26/06	
Excavation Excavation Depth in Feet	Contractor: N. Prouty Equipment: Ford 555E Backhoe Material Description 6 Inches of silty TOPSOIL.	, mottled SILT.	Surface Elevation: Not Meas Date Completed: 4/26/06	
Excavation Excavation Depth in Feet	Contractor: N. Prouty Equipment: Ford 555E Backhoe Material Description 6 Inches of silty TOPSOIL. (Soft to medium stiff), damp, gray-brown,	, mottled SILT.	Surface Elevation: Not Meas Date Completed: 4/26/06	
Excavation Excavation Depth in Feet	Contractor: N. Prouty Equipment: Ford 555E Backhoe Material Description 6 Inches of silty TOPSOIL. (Soft to medium stiff), damp, gray-brown, Bottom of Test Pit at 12.0' BGS.	, mottled SILT.	Surface Elevation: Not Meas Date Completed: 4/26/06	
Excavation Excavation Depth in Feet	Contractor: N. Prouty Equipment: Ford 555E Backhoe Material Description 6 Inches of silty TOPSOIL. (Soft to medium stiff), damp, gray-brown,	, mottled SILT.	Surface Elevation: Not Meas Date Completed: 4/26/06	
Excavation Excavation Depth in Feet	Contractor: N. Prouty Equipment: Ford 555E Backhoe Material Description 6 Inches of silty TOPSOIL. (Soft to medium stiff), damp, gray-brown, Bottom of Test Pit at 12.0' BGS.	, mottled SILT.	Surface Elevation: Not Meas Date Completed: 4/26/06	
Excavation Excavation Depth in Feet	Contractor: N. Prouty Equipment: Ford 555E Backhoe Material Description 6 Inches of silty TOPSOIL. (Soft to medium stiff), damp, gray-brown, Bottom of Test Pit at 12.0' BGS.	, mottled SILT.	Surface Elevation: Not Meas Date Completed: 4/26/06	
Excavation Excavation Depth in Feet	Contractor: N. Prouty Equipment: Ford 555E Backhoe Material Description 6 Inches of silty TOPSOIL. (Soft to medium stiff), damp, gray-brown, Bottom of Test Pit at 12.0' BGS.	, mottled SILT.	Surface Elevation: Not Meas Date Completed: 4/26/06	
Excavation Excavation Depth in Feet	Contractor: N. Prouty Equipment: Ford 555E Backhoe Material Description 6 Inches of silty TOPSOIL. (Soft to medium stiff), damp, gray-brown, Bottom of Test Pit at 12.0' BGS.	, mottled SILT.	Surface Elevation: Not Meas Date Completed: 4/26/06	
Excavation Excavation Depth in Feet	Contractor: N. Prouty Equipment: Ford 555E Backhoe Material Description 6 Inches of silty TOPSOIL. (Soft to medium stiff), damp, gray-brown, Bottom of Test Pit at 12.0' BGS.	, mottled SILT.	Surface Elevation: Not Meas Date Completed: 4/26/06	

	Ash Creek Associates, Inc.	Norton Crest Subdivision McMinnville, Oregon	Project Number	1214-00
4			Test Pit Number	TP-9
Test Pit Lo	cation: See Figure 2		Surface Elevation: Not Measu	ured
	Contractor: Greg Vandehey Soil Explorations		Date Completed: 4/26/06	
	Equipment: Kobelco SK60 Trackhoe		Logged By: J. Duquette	
Depth in Feet	Material Description			
	6 Inches of silty TOPSOIL.			
	(Medium stiff to stiff), damp, gray-brown	n, mottled SILT.		
_				
5 —				
_				
_				
10 —				
10				
_	Bottom of Test Pit at 13.0' BGS.			
_	No Groundwater or Seepage Noted.			
15 —	No Groundwater of Seepage Noted.			
_				

ASH CREEK / CPT-1 / NE NORTON, MCMINN

Operator: KDV/SVAN/GEOTECH

Sounding: FILL79 Cone Used: 4CH CPT Date/Time: 04-28-06 09:03 Location: CPT-1 NRTN L MCM Job Number: ASHCRK/DUQUETTE



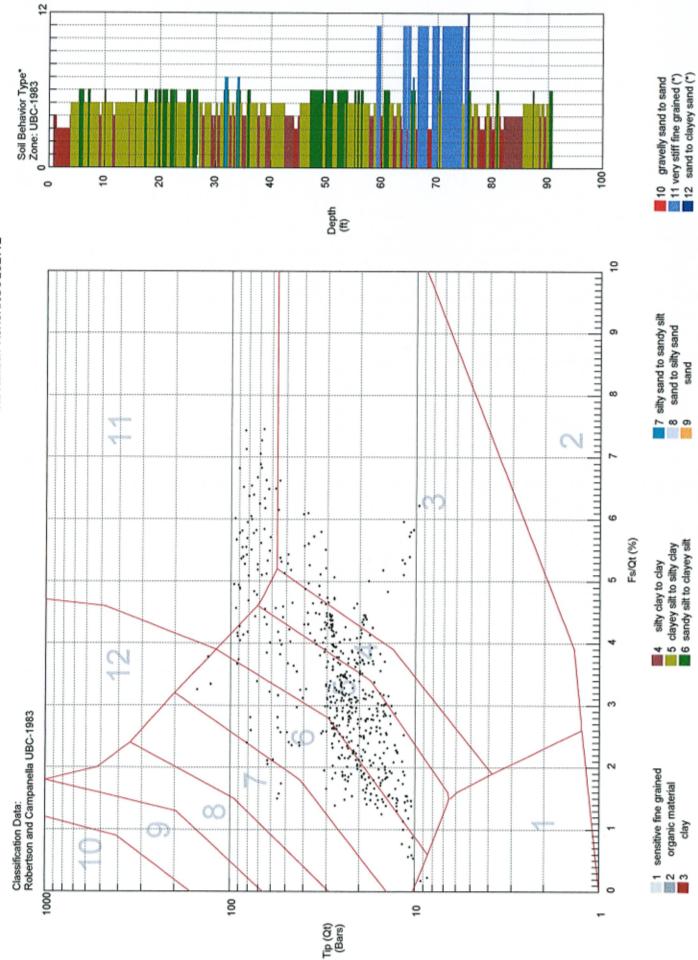
ASH CREEK / CPT-1 / NE NORTON, MCMINN

Operator: KDV/SVAN/GEOTECH Sounding: FILL79

Cone Used: 4CH

CPT Date/Time: 04-28-06 09:03 Location: CPT-1 NRTN L MCM

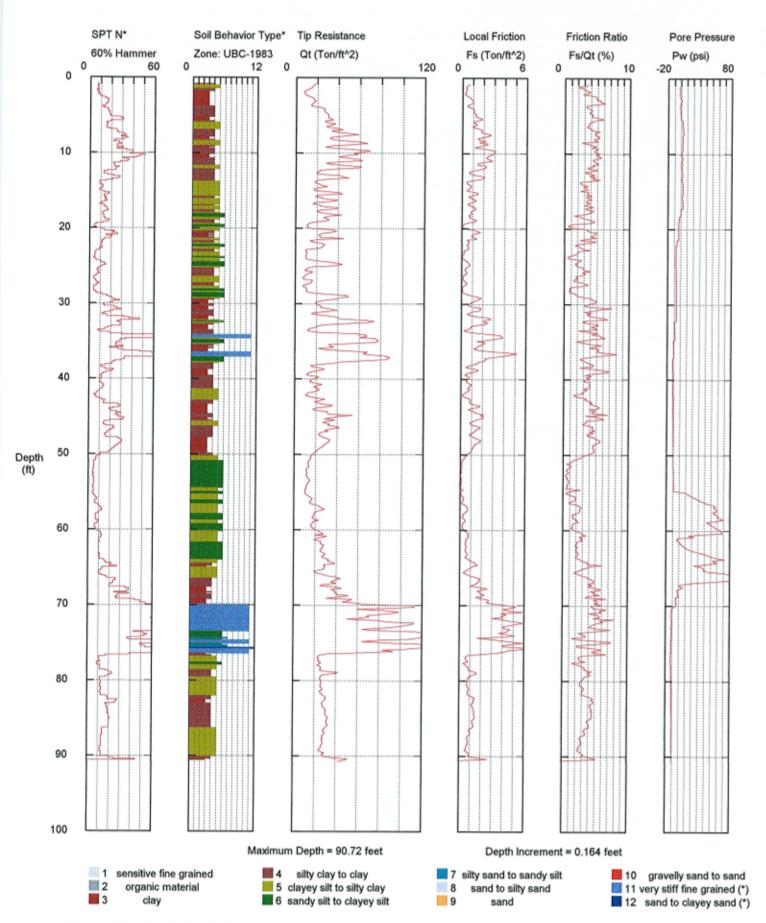
Job Number: ASHCRK/DUQUETTE



ASH CREEK / CPT-2 / NE NORTON, MCMINN

Operator: KDV/SVAN/GEOTECH

Sounding: FILL80 Cone Used: 4CH CPT Date/Time: 04-28-06 12:19 Location: CPT-2 NRTN L MCM Job Number: ASHCRK/DUQUETTE



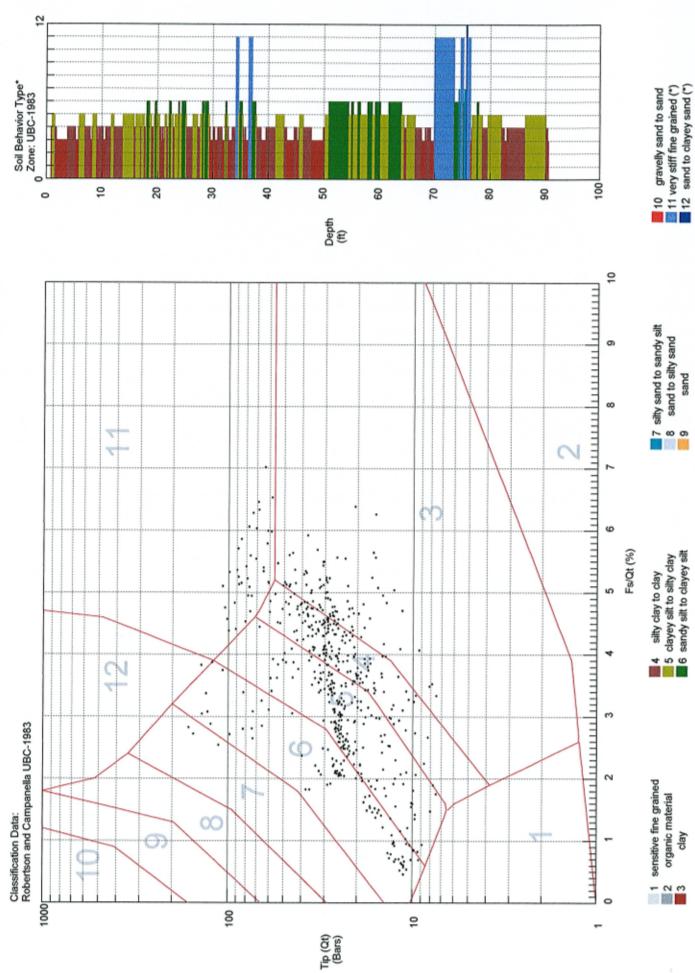
ASH CREEK / CPT-2 / NE NORTON, MCMINN

Operator: KDV/SVAN/GEOTECH Sounding: FILL80

Cone Used: 4CH

CPT Date/Time: 04-28-06 12:19 Location: CPT-2 NRTN L MCM

Job Number: ASHCRK/DUQUETTE



From: Andrew Parish

To: <u>Heather Richards</u>; <u>Jamie Fleckenstein</u>

Cc: <u>Darci Rudzinski</u>

Subject: FW: Form Submission - New Form

Date: Wednesday, December 8, 2021 2:39:38 PM

This message originated outside of the City of McMinnville.

FYI, input from the project website.

From: Squarespace <form-submission@squarespace.info>

Sent: Wednesday, December 8, 2021 12:27 PM **To:** Andrew Parish aparish@angeloplanning.com

Subject: Form Submission - New Form

Sent via form submission from *Three Mile Lane Area Plan*

Name: Nolan Chard

Email Address: nvchard@gmail.com

Message: I live at the west end of Chalmers Way. As such, I see most of our area every time I go out. It is a well functioning neighborhood with few things that could be improved. The suggested alternative zone plan seems to address these potential improvements and would meet most of my current concerns. I am assuming that existing uses are grandfathered in, no one should be put in a losing situation. I especially like the idea of rezoning the industrial are where the concrete company is. This will allow the company to select a time to relocate and gain a profit from land sale and quiet the adjacent neighborhood as their necessary cleaning of their trucks is loud. But they were here first. The rest of the changes seem to fit rather well together. Thank you for the opportunity to comment.

Check the box below to subscribe to project updates.:

Does this submission look like spam? Report it here.

From: Rick R

To: <u>Heather Richards</u>

Subject: Three Mile Lane Area Plan property owner comments

Date: Wednesday, December 8, 2021 2:21:15 PM

This message originated outside of the City of McMinnville.

Dear Planning Director and McMinnville Planning Commission,

Thank you for the opportunity to comment on the proposed Three Mile Lane Area Plan ("TMLAP"). I would like to take this opportunity to enter my comments in the written record.

It is apparent that the planning department and others have been working diligently to develop a cohesive plan for development of the Three Mile Lane area. Also, I appreciated the availability of the McMinnville planning director and staff to address concerns that I had regarding the plan. One item that was not readily apparent from the posted TMLAP materials is that the TMLAP documents are not to be considered final documents that fix details of the plan, but rather as Heather Richards expressed to me, the documents are intended to take a 30,000 foot view of the area and should be considered conceptual only. I suspect there are others not aware of this point.

While I am generally supportive of the TMLAP, I believe there are serious problems associated with the proposed location of the proposed trail/bike path along the North Yamhill River in the Central Neighborhood district. The Norton Crest and Kingwood subdivisions have a number of developed homes along the river. To the immediate north of these homes is floodplain that is regularly inundated in the winter months. Putting a trail in the floodplain would be an expensive and environmentally damaging exercise in futility as the river current annually erodes the area. The river regularly floods this area and the banks are quite steep and should not be disturbed. Alternatively, putting the trail on the crest above the river would situate it in homeowners back yards and would certainly not be desirable for the homeowners in the area.

Perhaps an even more compelling reason for changing the location of a trail/bike path in this section is that the ground is not stable and should not be disturbed. When the Norton Crest subdivision was being developed a geological and geotechnical evaluation was performed. As a result of this work, slope setbacks were drawn on the north and east side of the subdivision. Homes were built behind the proposed setbacks. Concerning development beyond the slope setbacks the engineering report states, "The slopes above the Yamhill River and associated feeder streams are inherently unstable. Numerous slumps and slide features are present along these areas. We recommend that no construction, filling, or vegetation removal be conducted beyond the slope setbacks! The drawings in the TMLAP have the trail going right through these slope setbacks! Under no circumstance should this be considered a "Preferred Alternative" as the TMLAP suggests.

Additionally, the lack of slope stability would strongly suggest it is appropriate to keep development out of the wooded drainage area along the east side of Chemekata Community College and the Central Neighborhood. This is a natural riparian area that serves as drainage for the the central area. The land should not be disturbed but left as as a natural area.

Disturbing this area will lead to further erosion and drainage issues for homeowners on both sides of the drainage. One home in this area was recently demolished because a section of the river bank gave way and the home was not considered safe to inhabit. Opening this area would only be an invitation for trespass on private property and the associated problems.

There may be additional issues in the TMLAP other than the ones I have raised but a thoughtful, planned approach will hopefully bring them to light before the city makes a financial commitment to proceed. Thank you for the opportunity to express my concerns and for the many hours the various parties have put into the TMLAP.

Rick Rozanski





January 12, 2022

McMinnville Planning Commission Heather Richards, McMinnville Planning Director 231 NE Fifth Street McMinnville, OR 97128

Re: Three Mile Lane Area Plan

Dear Commissioners and staff:

Friends of Yamhill County (FYC) works to protect natural resources through the implementation of land use planning goals, policies, and laws that maintain and improve the present and future quality of life in Yamhill County for both urban and rural residents. 1000 Friends of Oregon is a non-profit, charitable organization dedicated to working with Oregonians to support livable communities. Our organizations' memberships include McMinnville residents who support the mission and values of the Oregon land use program.

We have reviewed Docket G-7-21, the Three Mile Area Lane Plan – a proposed amendment to the city's comprehensive plan and related zoning ordinance amendments. The plan covers an area of over two square miles, north and south of Highway 18, and has far-reaching implications for the City of McMinnville and its character.

We note that the plan surrounds, but does not address, the approximately 27.5 acres between the air museum and Highway 18 recently added to the urban growth boundary (UGB) with a commercial plan designation. This land is surrounded by, and is functionally an integral part of, the Three Mile Lane Area. It fronts Highway 18 at the proposed roundabout gateway to the city. It is in close proximity to the existing higher-density neighborhood in Olde Stone Village. For these reasons, we urge the planning commission to include it within the boundary of the Area Plan, consider its potential future uses, and incorporate appropriate provisions for it within the Area Plan.

As detailed below, we support many elements of the plan and have strong concerns about other elements.

1) We support the mixed-use neighborhood uses planned for the Baker Rock/Cal Portland site. This area has good potential for a healthy neighborhood where people of varying incomes, ages, and household sizes can live together in a wide range of housing types, within walking distance of downtown and Chemeketa Community College. Although the proposed plan map shows distinct commercial and residential areas, future zoning should allow these uses to be geographically and/or vertically mixed.

While redevelopment of the site may not be imminent, this portion of the plan makes good sense.

2) We support the mix of uses envisioned near the existing hospital and medical offices. The plan's expectation of horizontal mixed-use rather than vertical mixed-use may be misplaced. Orenco Station, cited elsewhere in the plan, offers a nearby example of the sort of vertical mixed-use that could be possible with medical and other professional offices. Bethany Village is another nearby example.

We also note that senior housing will attract residents who are less likely to drive, heightening the need for neighborhood-serving retail.

- 3) We support the "Non-Residential and Mixed-use Development Standards" proposed in Appendix E. These, or similar, design standards seem integral to the Great Neighborhood Principles that the city has adopted and we encourage their implementation throughout the city. Consistent with the Great Neighborhood Principles promoting pedestrian friendly, walkable development, the standards would benefit from language prohibiting or restricting the use of drive-up windows at restaurants and urge the Planning Commission to include such restrictions in the Three Mile Lane Area Plan.
- 4) Although we strongly oppose the redesignation of land to allow big-box retail south of Highway 18 (see below), we support the Site Design standards for Non-Residential, Large Format Developments proposed in Appendix E. These, or similar standards are also integral to the Great Neighborhood Principles and should be implemented throughout the city. As above, language prohibiting or restricting the use of drive-up windows at restaurants would better implement the Great Neighborhood Principles in at least some areas of the city, and we urge the Planning Commission to include such restrictions in the Area Plan.
- 5) We support the additional urban design features, residential uses, mixed office/industrial area, and trail system described in the plan.

Despite these many positive elements, we do have some very significant concerns.

6) We strongly oppose the plan's proposed redesignation of land to allow big-box retail south of Highway 18. We have already testified in opposition to Kimco's pending plan amendment and zone change application, which this element of the plan facilitates.

The Area Plan calls for the redesignation of forty acres of land for commercial retail. As explained further below, this is inconsistent with the city's acknowledged EOA and with the more recent draft EOA prepared by EcoNorthwest. It trades high wage jobs for low wage jobs, thereby exacerbating problems of housing affordability. It will result in negative impacts to the existing Hwy 99W commercial corridor, and it promises costly traffic problems without apparent solutions.

Redesignating the land for retail commercial use is inconsistent with the city's acknowledged EOA, adopted in 2014 (and inconsistent with OAR 660-009-0010(4)(a)). The acknowledged EOA showed a deficit of about 36 acres of commercial land. This deficit was eliminated with the city's recently

adopted and acknowledged UGB expansion and related plan amendments. Those amendments added approximately 27 gross buildable acres of commercially designated land to the UGB on the north side of Three Mile Lane and *also* included comprehensive plan polices that call for 5-10 acres of retail and $2\frac{1}{2}$ -10 acres of office in *each* of three neighborhood activity centers on other land included in the expansion that is now designated urban holding.¹

The redesignation for retail commercial is also inconsistent with the most recent draft EOA prepared by EcoNorthwest, dated February 2020. Between 2021 and 2041, the draft 2020 EOA projects 3,458 new jobs in office and commercial services and only 383 new retail jobs; a 90%-10% split. This is directly at odds with the Area Plan's conclusion that the area "is well-positioned for new retail development, particularly large-format retail" but "the office market is very weak." While the draft EOA may already be obsolete because of changes to the office market created by the COVID-19 pandemic, there is no indication that the retail job market has expanded.

The proposed redesignation will all be "surplus" commercial land in excess of what is called for in McMinnville's adopted and acknowledged comprehensive plan. The oversupply of new retail commercial land will have predictable negative consequences to the existing commercial corridor. For example, the PowerPoint slides from the November work session acknowledge the large existing surplus of grocery stores (among other surpluses). A large format food store south of Highway 18 will likely result in the closure of one of McMinnville's existing grocery stores. One can foresee similar closures in other retail sectors as a result of new big-box retail south of Highway 18. Even if closures are limited, the new commercial retail land will make redevelopment along the existing commercial corridor far less likely.

In addition, locating retail uses on the outskirts of the urban area will lead to additional and longer automobile trips, which conflicts with the city's energy conservation policy 178.00, Oregon's Transportation Planning Rule, and other efforts to reduce carbon emissions.

Converting 40 acres of industrial land zoned M-2 to "large-format" retail trades high-wage jobs for low-wage jobs. Even the Area Plan (p. 13) acknowledges that, "The industrial market remains strong due to the growth of agriculture, food and beverage production, and manufacturing." The factors that the plan cites as advantageous for lower-wage retail and hospitality uses are the same factors that make it attractive for industrial development:

"This almost 60-acre parcel is one of the largest regional sites with easy highway access. The site is flat and developable—a unique characteristic for a site of this size, and has a locational advantage being both near to the highway and the McMinnville Municipal Airport." (draft Area Plan, p. 26)

_

¹ We disagree with the legal analysis provided by Kimco attorney Dana Krawczuk in a related proceeding. All amendments and zone changes must be consistent with all elements of the city's comprehensive plan, and consistent with all other applicable legal requirements.

The city's acknowledged EOA shows that wages in retail and dining are *by far* the lowest of any job sector in McMinnville – less than half that of industrial sector jobs like manufacturing.² It also shows that McMinnville's employment base is *already* skewed towards retail jobs compared to the other geographies the EOA examined.³

Rezoning this employment land for lowest wage jobs will only exacerbate McMinnville's problems of housing affordability. Housing costs are only half of the challenge of housing affordability McMinnville and many other communities face. Household income is at least as important to what housing a family can afford. It makes no sense for the city to amend the comprehensive plan to reduce the potential for higher-wage jobs, redesignate land for lower-wage jobs, while at the same time talking about a crisis of housing affordability.

"Retail Leakage" is cited as a justification for converting industrial land to retail commercial, i.e., the potential for more of local residents' retail expenditures to be spent within McMinnville. However, the city's EOA found *county-wide* retail leakage, as opposed to McMinnville leakage. This isn't to say that McMinnville residents don't shop elsewhere for some goods and services, but on the whole, *McMinnville has a net inflow of retail dollars*:

Geographic Area	Annual Retail Sales Per Capita
McMinnville	\$15,677
Newberg	12,734
Yamhill County	8,844
Oregon	12,690
United States	13,443

Source: https://www.census.gov/quickfacts

A large flat, vacant industrial parcel, already within the UGB, served by a free-flowing state highway (Highway 18), near an airport, and in a single ownership is an extremely uncommon asset for any city to have; it is, indeed, prime industrial land. Potential industrial users for such a large site are not common, but preserving this site for industrial use would almost certainly provide greater long-term benefits to the community than would an unneeded shopping center.

Finally, retail commercial, especially big-box commercial, generates far more traffic than industrial uses. Regardless of the pedestrian network inside the shopping center, virtually all customers will drive to it. Indeed, it is touted as a "regional" retail opportunity. This promises costly traffic problems without apparent solutions. (see below)

7) Despite the planned sidewalks and bike lanes, virtually all the development south of the highway, including both commercial and the residential development (all of which is higher density), will likely rely on cars to connect to the city center and any other area north of the

-

² The 2020 draft EOA (p. 15) shows a similar disparity between retail and food service jobs on the one hand and manufacturing jobs on the other.

³ Acknowledged EOA pp. 14-15

highway. McMinnville has long had an overpass over highway 18 in its transportation plan. The Area Plan would drop this, instead relying on traffic signals and a proposed new round-about at Cirrus Ave. Funding is proposed to be shared by the state, the city, and private developers. It is not clear why the state or existing McMinnville residents should subsidize a private shopping center's traffic impacts.

Just as important, even with these proposed improvements, traffic flow will suffer. Highway 18 is state-designated freight route with enhanced mobility standards defined in the Oregon Highway Plan and with the stated objective of maintaining efficient through truck movement. This plan would almost certainly affect travel times and speeds, and by its own reckoning, would result in reduced levels of service at key interchanges, albeit not failing levels of service.

One need look no farther than Bend and Seaside for examples of the costly consequences that result when regional retail magnets are allowed to locate on the bypass routes. Allowing a regional shopping center will undermine the highway's freight capacity and create congestion for both local residents and those using Highway 18 for travel to Oregon's wine country and coast. Bend needed to build a *second* bypass after the first was compromised. As the News-Register stated several years ago with respect to the Kimco parcel, Highway 18/Three Mile Lane "fills the crucial role of [the] Highway 18 bypass, sparing McMinnville the traffic nightmare Newberg and Dundee are trying to address at astronomical cost."

The city should not facilitate the degradation of the highway by removing the overpass from its plans while at the same time amending the plan in a manner that will increase traffic impacts. As drafted, the TMLAP is inconsistent with the city's adopted and acknowledged Transportation Systems Plan (TSP).⁵

- The city has already approved two apartment complexes south of Highway 18 and west of NW Logging. One is to be owned by the housing authority and one is being privately developed. These residents, at least some of who will be lower-income, will be segregated from the rest of the city by Highway 18. Also, as noted above, senior housing south of the highway will attract residents who are less likely to drive, and less able to walk longer distances. These residents will clearly benefit from neighborhood-serving commercial development. While the Area Plan states that any neighborhood-serving retail is merely "a mid- to long-term aspiration," equity and common sense suggest the city should prioritize its near-term development in this vicinity, as well as the nearby proposed park.
- 9) We have an additional concern regarding the travel-related commercial planned for north of the highway at the eastern edge of the city near Loop Rd. We are not sure a gas station and fast food drive-ups are the right gateway for McMinnville. While these uses are allowed under

_

⁴ News-Register, September 1, 2012

⁵ All elements of the city's comprehensive plan must be internally consistent. Adding an "Action Item" to the TSP that calls for future amendments to resolve the inconsistencies is insufficient. Plan amendments, including amendments to the TSP are discretionary land use decisions which may or may not be adopted. Thus, their future adoption cannot be relied upon.

the current zoning, the Planning Commission should take this opportunity to reexamine the most appropriate zone for this property.

Conclusion

As detailed above, there are many good elements in the plan, a major problem, and some areas for improvement. For the foregoing reasons, we urge the Planning Commission to amend the plan to:

- Include the commercially-designated island of land recently added to the UGB.
- Reject the redesignation of industrial land to allow for big-box retail
- Retain the overpass in the McMinnville Transportation Plan
- Include restrictions on drive-up windows in commercial zones
- Encourage geographically and/or vertically mixed use on the Baker Rock/ Cal Portland site
- Reconsider appropriate commercial uses near the Loop Rd. gateway to the city
- Prioritize neighborhood-serving commercial uses and the park near the recently approved apartments

Thank you for the opportunity to provide these comments. Please include them in the official record of this proceeding and notify us of your decision in this matter.

Sincerely,

Alexis Biddle

alexis Biddle

Great Communities Program Director and Staff Attorney 1000 Friends of Oregon 454 Willamette St, Ste 213

Eugene, OR 97401

Sid'Friedman

Friends of Yamhill County

PO Box 1083

McMinnville, OR 97128

cc: DLCD ODOT From: <u>Heather Richards</u>
To: <u>Mark Davis</u>

Subject: RE: Comment re G 7-21, Three Mile Lane Area Plan Date: Wednesday, January 12, 2022 9:10:00 AM

Attachments: <u>image003.png</u>

Yes, I will use this email in the record to do so. We are sending out the packet tomorrow. If you get me the comments by close of business tonight I can incorporate it into the packet or I can send it out to the PC on the evening of receipt up until the day of the public hearing.

Have a great day!

Heather



PLANNING

Heather Richards, PCED
Planning Director
City of McMinnville
231 NE Fifth Street
McMinnville, OR 97128

503-474-5107 (phone) 541-604-4152 (cell)

<u>Heather.Richards@mcminnvilleoregon.gov</u> <u>www.mcminnvilleoregon.gov</u>

From: Mark Davis <mark@startlivingthetruth.com>

Sent: Wednesday, January 12, 2022 9:05 AM

To: Heather Richards < Heather. Richards@mcminnvilleoregon.gov>

Subject: Re: Comment re G 7-21, Three Mile Lane Area Plan

This message originated outside of the City of McMinnville.

Heather,

During further review of the TMLAP I realize that I misunderstood what you said during your presentation to the Work Session of the Planning Commission about the proposed Level of Service E. It is Level of Service C. Is there a way that I can formally request to withdraw my comment and resubmit it after editing it?

Mark

On Mon, Jan 10, 2022 at 12:00 PM Mark Davis < mark@startlivingthetruth.com > wrote:

Heather,

Attached are my initial comments on the TMLAP. As noted in them, I intend to make further written comments once the final amendments have been made to the plan documents.

Mark Davis

Mark Davis 652 SE Washington Street McMinnville, OR 97128

January 12, 2022

McMinnville Planning Commission 231 NE Fifth Street McMinnville, OR 97128

Dear Members of the Planning Commission:

Please include these initial comments in the record for the hearing on the Three Mile Lane Area Plan (TMLAP). I intend to make further comments once the Plan is finalized and all ODOT input that caused continuances to the hearing is made available to the public.

The Plan lacks historical perspective on the area proposed for transformation. I am not speaking of the fact that 200 years ago this land was under the stewardship of the Yamhelas people who were driven off the land, though it would be nice to at least acknowledge that reality. I am talking about lessons to be learned from past development as we look to future development.

This area was not a natural, compact extension of McMinnville. The South Yamhill River made a logical natural barrier to the city. It's my understanding that city expansion in this direction was driven by the desire of Evergreen to have access to City utility services. Clearly, the rise and fall of the Evergreen empire has had a dramatic impact on both sides of the highway and is worthy of understanding as we move forward.

Similarly, the development and subsequent failure of the Tanger Outlet Mall had an outsize impact on the ground and on how we move forward. This complex was vacant for years before State offices and other uses moved in. The lessons learned from this failed big box retail experiment are relevant to future proposed big box retail in the area.

While a historical record is unlikely to be created at this late date, at least one document gives us a sense of what the previous generation was thinking as they planned development in this area: The 1996 McMinnville Corridor Refinement Plan, which I have attached and would like to make part of the record for the hearing.

This historical document's relevance became obvious during the Commission's November Work Session discussion about ODOT's proposed overpass at Cumulus Avenue. Planning Director Richards said the overpass was unnecessary. When Commissioner Tucholsky asked why ODOT proposed the overpass, Director Richards speculated that the "fear factor" drove that decision. This is untrue.

Look at the composition of the 1996 plan's Steering Committee: a City Councilor, a County Commissioner, an ODOT representative, County Public Works Director Bill Gille and McMinnville Planning Director Rick Highsmith. They were not driven by fear. Read the minutes and summary of the public comments (Appendices E and F). No one demanded an

overpass or made comments that would strike fear in the hearts of the Steering Committee if they didn't get one.

No, an overpass was included in the plan because it was recognized that as the area south of the highway develops, an overpass would be necessary to maintain safe, efficient movement of vehicles on the highway, and safe, efficient movement of vehicles, bicycles and pedestrians over the highway.

The city's adopted Transportation Systems Plan includes the following statement regarding Highway 18 in this area in Table 2-1 on page 2-7: "The portion of Highway 18 through McMinnville west of Norton Lane is currently grade separated and functions as a single-lane expressway with speeds of 50-55 mph. The Highway 18 Corridor Refinement Plan (mutually adopted by ODOT and the City) recommends full grade separation for that section of Highway 18 east of Three Mile Lane. Upon completion of the Highway 18 Corridor Plan, Highway 18 can be re-classified from Major Arterial to Expressway. Expressways serve regional and statewide through-traffic at higher but managed speeds, with no or very limited local access."

The preferred alternative degrades the function of the highway as a bypass and creates difficult and unsafe conditions for cyclists and pedestrians seeking to cross the highway. The implications of this significant change to the Transportation Systems Plan have not been publicized and should not be endorsed by the Planning Commission.

I attended one of the public open houses that preceded adoption of the 1996 plan to try to express my opinion. Given the way the information was presented (i.e., the underlying assumptions were not up for discussion), it was clear that the less expensive alternative (extended frontage roads and temporary traffic lights to be replaced by an overpass later) had already been decided upon. In a lot of ways that process feels like this one: much effort has gone into designing a plan, so that when the time for formal comment comes around there is almost no chance the plan will be significantly altered.

One other historical note that I think is worth considering is the purpose of Highway 18 in this corridor. I've lived in the area about 45 years and it has always been called "the bypass." In the Steering Committee minutes County Commissioner Dennis Goecks is quoted as wanting "...to prevent the installation of multiple stoplights which would inhibit the flow of traffic. He emphasized that the facility was built as a bypass."

In the horse-and-buggy era McMinnville's retail commercial area developed along Third Street. As automobiles became more prominent, businesses began moving to the Highway 99W corridor around the outskirts of town, decimating the downtown retail operations. As the 99W route became clogged with lights and traffic, Highway 18 (the bypass) was constructed to provide a route around this congestion.

At the same time McMinnville elected to move forward with its bypass, Newberg turned down a similar bypass around their commercial district. We have spent the past 40 years (and hundreds of millions of dollars including \$3.2 million from City of McMinnville revenues) trying to create a traffic-light free route around Newberg. There is simply no logical reason to now turn our relatively smooth-flowing bypass into further congestion with a roundabout and two traffic

lights. If we gum up the bypass now by promoting big box retail using traffic lights, we might wait decades for the next solution to be constructed. If it is too expensive to construct now, it may be too expensive to construct later.

I know the eternal optimists among you think this Three Mile Lane Area Plan is all about the wonderful future you are creating. Still, you might keep in mind what George Santayana once observed: "Those who cannot remember the past are condemned to repeat it."

α	•			- 1	
ν.	11	0	αr	ല	y,
u	ш.		u	\mathbf{c}	. У "

//S//

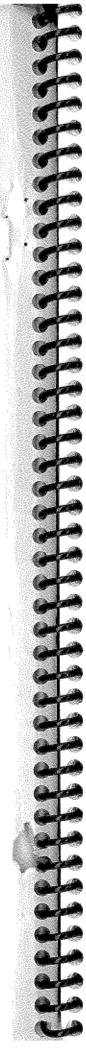
Mark Davis

McMinnville
Corridor
Refinement
Plan

Oregon Highway 18 Corridor Refinement Study McMinnville Section

2/16/96

A cooperative effort of the City of McMinnville, Yamhill County, the Oregon Department of Transportation, and the Mid-Willamette Valley Council of Governments



McMinnville Corridor Refinement Plan

Oregon Highway 18 Corridor Refinement Study

McMinnville Section

McMinnville Corridor Refinement Plan

The McMinnville Corridor Refinement Plan was guided by a steering committee made up of elected officials and staff members from affected jurisdictions. The steering committee provided the study with a valuable forum in which to consider the issues, develop coordinated strategies, and make prudent judgments to solve the transportation challenges faced on this portion of the Highway 18 corridor. In formulating the solutions, the steering committee considered recommendations from the public and technical advisors. The steering committee's work has resulted in a workable system for the future.

Steering Committee

Councilor Robert Payne	City of McMinnville
Commissioner Dennis Goecks	Yamhill County
John deTar Oregon Department of Tra	nsportation, Region 2
Richard Highsmith	City of McMinnville
Bill Gille	Yamhill County

The inclusion of proposed projects and actions in this plan does not obligate or imply obligation of funds by any jurisdiction for project level planning or construction.

However, the inclusion of proposed projects and actions does serve as an <u>opportunity</u> for the projects to be included, if appropriate, in documents such as the State Transportation Improvement Program (STIP). Such inclusion is not automatic. It is incumbent on the state, county, city, and general public to take action to encourage and support inclusion into the STIP at the appropriate time.

Projects included in the STIP are required to have funds available so the number of projects which can be included are constrained by funding levels.

Contents

Executive Su	mmary
Introduction	
Backgr	round Information
Plannii	ng Framework, Process, and Policies
Goals,	Objectives, Strategies, and Issues 5
Releva	nt Regulations
Transportation	on Inventory/Conditions
	Streets
Bridge	s
	y/Pedestrian
Public	Transportation
Air/Ra	il/Pipeline
Traffic Forec	asts
Modeli	ng 17
Anticip	ated External Influences
	g and Future Land Uses
Trip G	eneration
Trip D	istribution and Traffic Assignment
Transportatio	n Needs and Solutions
Needs	
Solutio	ns
Public Involve	ement
Implementation	on
Financi	ng
Appendix A:	Definitions and Acronyms
Appendix B:	Document Listing
Appendix C:	Study Requirements
Appendix D:	Study Memorandums: ODOT Memorandum on Proposed Cruickshank Road Underpass; Summary of Environmental Issues; ODOT Memorandum on Right-of-Way Estimate; Utility Estimates - Shifted Road Options
Appendix E:	Steering Committee Meeting Minutes
Appendix F:	Summary of Public Open Houses and Public Comment
	Summary of Alternative Solutions

Figures

Figure		
1	1991-93 Accident Locations; 1970-93 Traffic Counts	11
2	Existing Comprehensive Plan	19
3	Existing Zoning Map	21
4	2016 Base Case - Alternative I	23
5	2016 Expanded UGB - Alternative II	25
6	Per Lane Volumes for Peak Evening Traffic Without Changes to Existing Highway	29
7	McMinnville Corridor Study Alternatives Analysis Without Urban Growth Boundary Expansion	33
8	Existing Road System and Urban Growth Boundary	37
9	Collector-Access Alternative, Phase 1	39
10	Collector-Access Alternative, Phase 2	41
11	Collector-Access Alternative, Phase 3	43
12	Landscaping	49
13	Alternate Bypass Alternative	3-7

Executive Summary

This Oregon Highway 18 Corridor Refinement Plan was developed in response to state, city, and county desires to provide good transportation services along a 3.8 mile (6.1 kilometers) section of Highway 18 near McMinnville. The section begins where the highway crosses the South Yamhill River and terminates at approximately one-half mile (0.8 kilometers) west of the highway's junction with the Lafayette Highway (Highway 233). It includes the area locally known as Three Mile Lane.

The concern for continuing good transportation services arose because of increased residential, commercial, and industrial development and the potential for continuing development as Yamhill County and particularly the City of McMinnville continue to grow in population and employment over the next twenty years. Additionally, growth at other points on the corridor will also increase the demand on transportation services.

During the plan's development, elected officials and staff members from all the jurisdictions involved worked closely to gain public input, analyze the impacts and likelihood of future growth, and to develop solutions for the transportation problems expected to occur.

The solution which best satisfies the concerns and solves the developing problems is construction of:

- Collector-access roads along this section of the corridor.
- An interchange to allow access to the highway from collector-access roads and north-south arterial traffic.
- A full service interchange to replace the existing East McMinnville Interchange at the Highway 18 Spur.

The collector-access road solution may be phased in over the twenty-year period of the plan. It can be implemented in stages which coincide with development. If development is delayed due to international, national, or statewide changes in economic conditions, these stages can also be delayed. The solution also meets the environmental, social, transportation, and other needs of the majority of users.

In 1995 costs, construction of the collector-access road solution is roughly estimated to be \$20,500,000 and use approximately 92 acres at an additional cost of \$4,100,000. A more precise estimate of the cost and acreage involved will require project level planning.

The plan is consistent with provisions of the 1991 Intermodal Surface Transportation Efficiency Act (ISTEA) and the Oregon Transportation Planning Rule (TPR). ISTEA requires each state to have a statewide planning process of which this plan is a part. This plan and its process also meets the TPR

requirements, among others, for coordination of transportation plans among the jurisdictions involved and adoption by each into their transportation and/or land use plans.

Introduction

Q-100

Carlon Contraction

Background Information

This document is one in a series of transportation plans commissioned by the Oregon Department of Transportation (ODOT) for the purpose of studying major highways within the state. This portion of the McMinnville section of Highway 18 was chosen for one of the earliest studies because of the potential for rapid development within the city and along this part of the Highway 18 travel corridor. Other actions being conducted concurrently or subsequently-specifically the Newberg/Dundee Bypass Environmental Impact Statement and the Highway 18/99W Corridor Strategies Plan-will address other parts of the corridor. Additionally, new studies may be commissioned to conduct detailed planning at other corridor locations. These planning activities are required by the 1991 Intermodal Surface Transportation Efficiency Act (ISTEA) and Oregon's Transportation Planning Rule (TPR).

Key steps in the process include analysis of: (1) the existing highway and intersecting roads/streets; (2) the potential effects of the future uses of bordering lands and other factors which may increase traffic; (3) city, county, and state plans affecting the area; and (4) solutions to expected problems through the year 2016.

Due to the recent completion of McMinnville's Transportation Master Plan and expected development along the eastern McMinnville segment of Highway 18, ODOT decided the area would benefit from a corridor planning "jump start." In spring of 1994, ODOT began developing the framework, process, and policies for a study of the eastern McMinnville segment.

Planning Framework, Process, and Policies

There are three different types of corridor planning. One type is *general planning* for an entire corridor. General planning identifies the priority and timing for basic transportation improvements; for example, a passing lane by the year 2000. The general plan is usually all that is necessary for small cities and rural areas.

Larger cities normally require a different level of effort, known as system planning. The system plan contains a greater amount of detail. It may suggest widening of a local street feeding into a state road, addition of turn lanes, or rerouting other city streets that have an impact on the corridor.

For most corridors, the system plan and the general plan will meet all the requirements. In some cases, however, a third corridor plan, called the refinement plan, is necessary. The refinement plan is normally an outgrowth of general and/or system plans. It is the most detailed of all the corridor plans. A typical refinement plan might recommend widening an inner city street and routing traffic to a second city street which then becomes a one-way street leading to a cloverleaf intersection. Often, the plan will also call for land use restrictions along the corridor or streets affecting the corridor.

This plan is a combination of all three types of corridor planning. Currently, there is no corridor plan for Highway 18/99W, so this plan must consider certain general aspects of the larger corridor. Additionally, the plan will consider factors common to a system plan, such as the effects of McMinnville streets connecting to the corridor. And lastly, it must consider issues pertinent to a refinement study, such as land use and development.

The planning process began when ODOT developed a list of the elements to be studied and determined how the work would be accomplished. This statement of work (Appendix C) contains ten broad tasks. These tasks are to:

- identify precise planning area;
- establish goals and objectives;
- involve the public in the planning process;
- determine constraints on future highway improvements;
- review existing plans, policies, and standards;

- inventory existing transportation systems and facilities;
- · determine transportation needs;
- convert the city's computerized transportation model (T Model 2) to the new state standard (EMME/2);
- conduct refinement planning for future land uses; and
- develop an implementation plan.

The work will supplement the City of McMinnville's Transportation Master Plan with data applicable to the corridor plan. Additionally, the converted transportation model will be used to forecast information for corridor planning.

The Mid-Willamette Valley Council of Governments (MWVCOG), an agency whose membership includes all the jurisdictions within the study area, was selected to perform the work. In late August 1994, the MWVCOG began the study. By December 1994, it was determined that the data contained in the City of McMinnville's T Model 2 lacked certain background information necessary for a quick and easy conversion to EMME/2. After determining a new schedule for completing the model, the plan's completion date was extended to December 29, 1995. In October 1995, the completion date was extended to May 31, 1996. The purpose of this was to comply with the steering committee's desires to investigate a new modification of the corridor solution.

The plan was completed under the policy supervision of ODOT's Region II Senior Planner and with the guidance of a steering committee comprised of Yamhill County and City of McMinnville elected officials, as well as staff members from ODOT's Region II and District 3, Yamhill County, City of McMinnville, and MWVCOG. A consulting team from CH2M Hill and Kittelson and Associates, Inc. provided information to the steering committee as needed. Input from four public workshops was used to develop and test various aspects of the plan.

Goals, Objectives, Strategies, and Issues

Many of the goals, objectives, strategies, and issues were suggested by the study's scope of work and adopted by the steering committee. In addition, the public contributed site specific issues throughout the study period. One adopted goal of the study was to ensure that the corridor continues to meet level of service (LOS) C. This LOS is the standard set by the Oregon Transportation and Highway Plans for all Highways of Statewide Significance, the second highest classification within the state's Level of Importance (LOI) system. Meeting this goal complies with the highway's management objective of providing safe and efficient high-speed continuous-flow operation in rural areas, and high to moderate speed operations with limited interruption of flow in urban and urbanizing areas. It also allows the highway to retain its primary function of providing connections and links to large urban areas, ports, and major recreation areas that are not directly served by interstate highways.

To attain this goal and objective, the steering committee determined that application of a Category Two Access Management Standard was also a necessary goal. This standard implements full access control (expressway conditions) applicable to this corridor's LOI. Generally, the requirements of this access standard do not allow direct land access and the corridor is distinguished by highly controlled connections and medians. Traffic signals should be avoided and grade separations should be considered for high volume cross streets. No private drives should have direct access to the highway, and intersections are spaced one-half to two miles (0.8 to 3.2 kilometers) apart in urban sections and one to five miles (1.6 to 8.0 kilometers) apart in rural sections.

To apply a Category Two Access Standard to this section of Highway 18, the following steps must be accomplished:

- identify the general location(s) for a future separated grade interchange;
- identify a future road network which can provide property access to the highway, including a beltline from the corridor, around the built-up area of McMinnville, to Highway 99W;
- identify road connections between any interchanges;
- develop a plan to allow a transition to the new access standard; and
- provide facilities to deal with multimodal capabilities if they are necessary.

To accomplish these activities, the state, regional, and local needs were reviewed. Primary among local needs was meeting a goal of providing a land access function. Meeting this goal was a major study objective. Other local needs were identified as: road connections for airport operations, a proposed beltline, connections for intermodal operations, and accommodating new development such as the Air Venture Museum and the relocated hospital.

State and regional needs included maintaining the ability for citizens using the Highway 18/99W corridor to safely and rapidly travel through Yamhill County. Construction of gaming centers near Grand Ronde and Lincoln City and major housing developments near Lincoln City are factors to consider when studying the statewide need.

The system refinement planning requirements needed to support these actions include:

- identify the types of facilities (intercity bus and the arterial, collector, and local roads) that are necessary to support development:
- identify and evaluate alternative locations for a future interchange, considering land use and environmental impacts:
- identify funding sources and the cost to the public:
- evaluate alterations to the East McMinnville interchange;
- identify road connections between existing and future interchanges;

- · determine alternative locations for roads serving a land use function;
- · identify demand management and system management opportunities;
- evaluate system benefits and costs. including impacts on vehicle miles. safety, and level of service

The study process included a review of all documents pertaining to this section of road. See Appendix B for a list of the documents.

Relevant Regulations

There were two significant actions-one federal and one state-which occurred within a relatively short time span to prompt a major transportation planning effort within Oregon. The federal action, ISTEA, provided transportation funding for six years. Furthermore, ISTEA requires each state have a statewide planning process and develop a transportation plan and program. Additionally, each state is required to develop, establish, and implement management systems to address safety. congestion, public and intermodal transportation. Oregon implemented many of these federal provisions by adopting the Oregon Transportation Plan (OTP) on September 15, 1992. An element of the OTP is the Oregon Highway Plan, which requires development of corridor plans for various state highways.

Oregon Administrative Rule (OAR) 660, Division 12 was adopted in April 1991. Commonly known as the Transportation Planning Rule (TPR), it implements

Statewide Planning Goal 12 (Transportation) by mandating that state agencies and local governments show compliance with other state goals, especially where work on rural lands is concerned. It also requires coordination of all aspects of transportation plans and prescribes certain predetermined outcomes such as reduction of automobile use.

Although the TPR is wholly applicable to this plan, certain aspects were found to play a more significant role in developing the plan and its conclusions. For example, Section 660-12-030(3)(a) requires that the determination of local and regional transportation needs shall be based on 20-year "population and employment forecasts . . . " and "to encourage urban development on urban lands prior to development on urbanizing land" (Goal 14).

Section 660-12-035 contains requirements for evaluating and selecting transportation alternatives including: improvements to existing facilities, new facilities, system and demand management measures, and the no-build system alternative required by the National Environmental Policy Act of 1969. Additional requirements support urban and rural development by providing facilities and services to support the land uses shown in the comprehensive plan. Furthermore, the system must consider issues such as air, water, energy, etc. The TPR also requires five-year interim benchmarks to evaluate the plan's progress.

Although the city's Transportation Master Plan discusses placement of a north-south arterial connecting Highway 18 to Highway 99W, construction of such an arterial is not likely to be accomplished within the near term period indicated in the Master Plan. The funds for the facility will be difficult to obtain and higher priority needs will take precedence.

Should construction of such an extension become likely, it will be influenced by provisions of OAR 660-12-065, Transportation Improvements on Rural Lands. This section identifies the transportation work consistent with Goal 3 (Agricultural Lands), Goal 4 (Forest Lands), Goal 11 (Public Facilities and Service), and Goal 14 (Urbanization). As the TPR is written and in view of the work planned, the north-south arterial will require a goal exception. If, over the years, the area becomes included in the UGB, a goal exception will not be necessary.

Transportation Inventory/Conditions

This section describes the existing conditions of the transportation facilities.

Roads/Streets

Study Area

The study section of Highway 18 is between milepoint 45.6 (bridge over the South Yamhill River) to milepoint 49.4 [one-half mile (0.8 kilometers) west of the Highway 18/233 intersection]. It is designated a principal arterial (city designation: major arterial) serving as a southerly route around the eastern edge of McMinnville. Furthermore, it is a National System Highway, a Highway of Statewide Significance, and an Access Oregon Highway. At milepoint 45.6, the road has two 11-foot (3.4 meters) travel lanes and paved shoulders that vary from 2.5 feet (0.8 meters) [4 feet (1.2 meters) including curb] crossing the bridge to up to 10 feet (3.0 meters) in spots. Proceeding east, the road continues with these dimensions for approximately seven-tenths of a mile (1.1 kilometers). From that point the highway changes to five lanes, including a center lane for left turning traffic. This portion of the highway has four 12-foot (3.6 meters) travel lanes, a 14-foot (4.3 meters) turning lane, and 8-foot (2.4 meters) paved shoulders. The five-lane section continues for 2.3 miles (3.7 kilometers) to milepoint 48.6 (the intersection with Cruickshank

Road). It then tapers back to a two-lane road just prior to the drainage crossing near milepoint 49.0.

Traffic Volumes

The Oregon 1993 Traffic Volume Tables show the average daily traffic (ADT) count ranging from 7,800 ADT west of the East McMinnville Interchange up to 12,000 ADT just east of the interchange. The remainder of the road is in the 8,000 ADT range. Traffic along the corridor increased by 71% (an average of 3.6% per year) from 1970 to 1990. From 1990 to 1993, a period which saw the highway upgrade from a two to five lane facility, the growth was 19.1% (an average of 6.4% per year). The increase in ADT is consistent with increases in population and employment along the corridor. The 1984 Environmental Impact Statement (EIS) East McMinnville Interchange-Airport Road Salmon River Highway Yamhill County Oregon found that the five-lane improvement is designed to handle a 16,650 ADT and still operate at level of service B (i.e., at signalized intersections, the average stop delay ranges from 5.1 to 15.0 seconds per vehicle). The EIS estimated this level would be reached by 2000. Data in the recent McMinnville Community Hospital traffic impact analysis indicates the level will be reached a year and a half earlier. Figure 1 shows the ADTs at various locations along the study area.

Accident History

The three year accident history along the study area is fairly low. The 1994 Safety Priority Index System (SPIS) does not place any site on the corridor in the state's top ten percent. Accidents vary from a single accident at seven locations to a high of three accidents near milepoint 46.4, just east of the East McMinnville Interchange. Outside the study area, at the intersection of Highways 18 and 233, six accidents occurred. One fatality occurred near the Cruickshank Road intersection. From January 1991 through December 1993, a total of 11 accidents occurred within the study area. An additional 18 accidents were recorded for Highway 18 Spur. Figure 1 also shows accident locations.

Adjoining Accesses

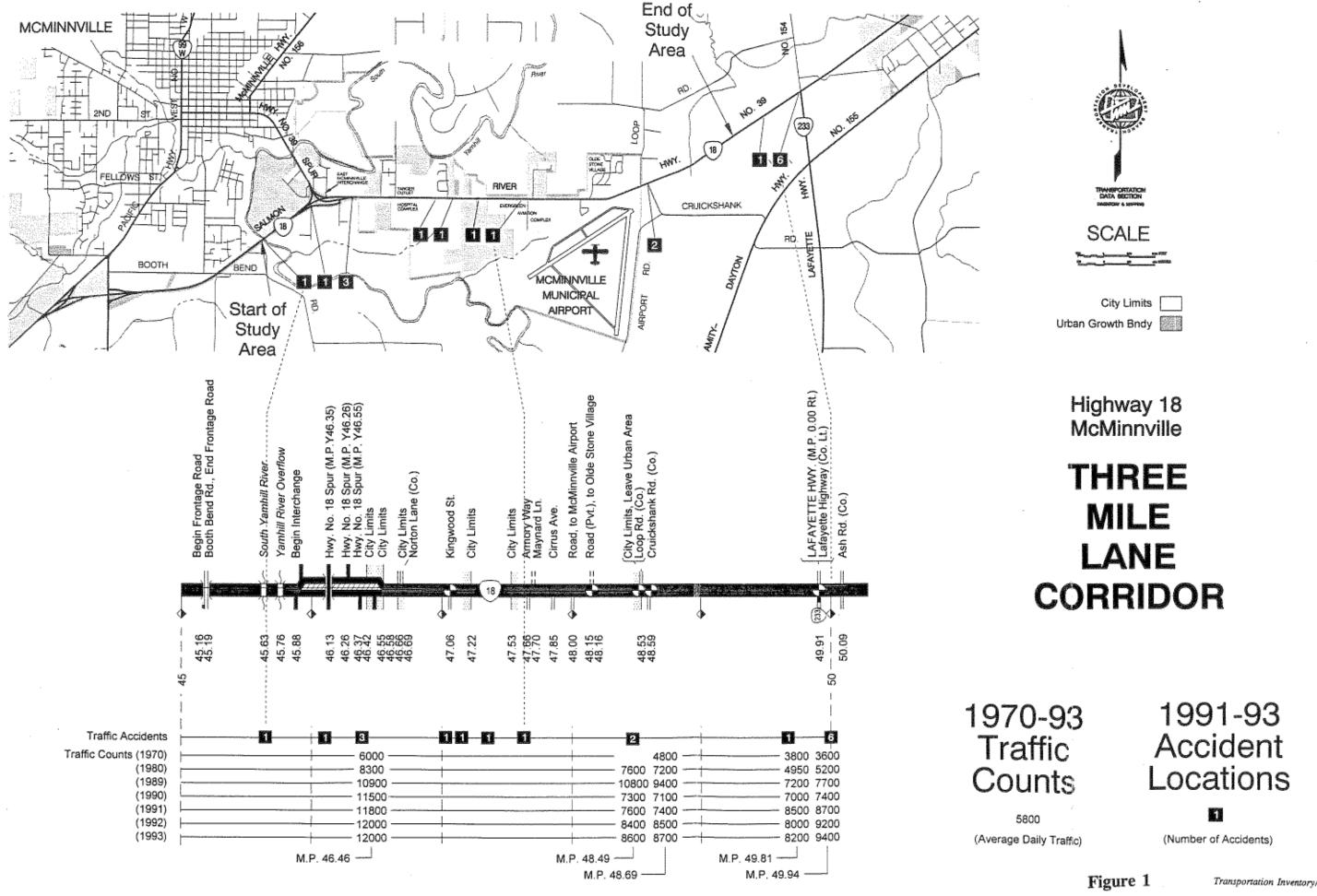
There are thirteen publicly owned roads directly affecting the corridor. Six connect directly to the highway and, from west to east, they are: Highway 18 Spur, Norton Lane, Kingwood Street, Armory Way, Cirrus Avenue, Loop Road, and Cruickshank Road. Two are frontage roads, one to the north and one to the south of Highway 18. Four others connect to the north and south frontage roads east of the interchange. They are: Lawson Lane, Pacific Street, Atlantic Street, and Dunn Place.

The Highway 18 Spur is a major collector with a traffic count in the 8000 ADT range. The road's southern end directly connects to the East Mcsinnville interchange and merges with Third Street on the north end. The North Frontage Road connects to the

Spur just north of the East McMinnville Interchange, and terminates at Norton Lane. Local residents report difficulty in making left turns from the Spur onto North Frontage Road.

Norton Lane, slightly over a half mile (.80 kilometers) east of the interchange, is classified as a local access road by the county. (Although a county road, a portion is managed by the city). The east side of the road is bordered by the Tanger Factory Outlet shopping center and farm lands, while the west side is bordered by McDonalds restaurant, a residential area, and farm lands. The corridor's northern frontage road terminates at Norton Lane. Since the recent buildup in the area, the paved portion of Norton serves as a major collector for Highway 18. The city's Transportation Master Plan proposes extending Norton northward to connect with Lafayette Avenue or Highway 99W, and reclassifying Norton as a minor arterial road. Two thousand feet (610 meters) to the east is Kingwood Street, a city local residential street. No traffic counts are taken for city streets. The last road directly connecting on the north side is Loop Road (County Road #92/192), classified as a local road. This county road, with an ADT of 109, provides access to adjacent land and to higher classified roads. On the south side of the study area, the road furthest east is Cruickshank Road (County Road #32). Cruickshank is classified as a major collector and has an ADT of 4018. West of Cruickshank, Cirrus Avenue serves as the entrance to the airfield complex. It is a city-owned local street. Approximately 0.4 miles (0.6 kilometers) west of Cirrus Avenue is Armory Way which serves as an access for the Evergreen Corporation

115



complex, the Army National Guard Armory and a city park. Armory Way is not classified but serves as a local street. Continuing west, the next direct access road is the new south extension of Norton Lane. This extension serves the newly constructed hospital and is the end point for the two-lane southern frontage road. The Norton Lane intersection with Highway 18 is signalized.

The four publicly owned roads connecting to the north and south frontage roads are Lawson Lane to the south and Pacific Street, Atlantic Street, and Dunn Place to the north. These are city local residential streets. The Pacific Street connection offers a very short access directly onto the Highway 18 Spur. Lawson Lane provides service to scattered residences. Residents using the western part of the southern frontage road have expressed displeasure with the inconvenience of driving a half mile (0.8 kilometers) east along the frontage road to Norton Lane in order to travel to McMinnville's central business district.

In addition, there are 19 more access roads from farm fields, residences, and businesses onto the corridor.

The following locations have permits on file with ODOT, District 31:

 Milepoint 46.69 City of McMinnville/Bend-O-River (Norton Lane)

- Milepoint 46.93 Don Sullivan
- Milepoint 47.02 Fredricks Motor Company
- Milepoint 47.10 River Park Subdivision (Kingwood Street)
- Milepoint 47.70 City of McMinnville (Armory Way)
- Milepoint 47.88-.90 Evergreen Helicopter
- Milepoint 48.02 City of McMinnville (Cirrus Avenue)
- Milepoint 48.14 Heather Drive (Old Stone Village)
- Milepoint 48.19 City of McMinnville

There are four additional private or business direct accesses onto the north frontage road, and two (including Martin Lane) on the south. One of these serves the mobile home park.

From an assessment of the numbers, types, and spacing of the public and private accesses, it can be concluded that the corridor functions between access category 4 and category 5. These categories related closely to a level of importance more pertinent to regional and district highways than the level of importance actually applicable to this corridor.

Bridges

There are two significant structures, both crossing the South Yamhill River at the beginning of the study area. These are bridge number 08490 and 08492 located near milepoints 45.6 and 45.8. Both were built in 1963. A

¹The milepoint locations above may not correlate perfectly with milepoints on the current road. Most permits are 20 to 30 years old and were granted prior to construction of the new five-lane section.

review of the 1994 inspection reports shows the structures are in good condition with minor safety problems (e.g., inadequate guardrail). The bridges are in the upper 25% of the state's list of facilities requiring earthquake retrofit protection. There is no special maintenance planned or upgrades scheduled. The bridges can be expected to remain structurally serviceable for a minimum of 20 years. The bridge's 30-foot (9.1 meters) road width prevents restriping it to a fourlane section so it will be a traffic bottleneck should this section of the corridor be widened.

Bikeway/Pedestrian

Highway 18 is designated as a bike route in accordance with requirements specified for arterials by the Transportation Planning Rule, the Oregon Transportation Plan, and the Oregon Bicycle and Pedestrian Plan (draft, December 1994). The "shoulder bikeway" concept is used and the road is not signed, in accordance with guidelines. The portion of the shoulder bikeway crossing the bridges is inadequate for shared use. This requires bicyclists to use the travel lane for the crossing.

A sidewalk between the highway and Tanger Factory Outlet shopping center and a crosswalk on three legs of the Norton Lane intersection are the only pedestrian amenities directly on the highway. For the remainder of the route, pedestrians use the road's shoulder. However, the north and south frontage roads have one sidewalk each which provide pedestrian service west of Norton Lane.

Public Transportation

There are limited sources of public transportation available to residents, employers, and employees along Highway 18. One taxicab company and one on-call company requiring 24-hour notice can provide service to and from the area. No public transportation services [Greyhound or Yamhill County (YAMCO) Transportation] make scheduled runs along the corridor. The provider for government sponsored public transportation is YAMCO, a division of the Yamhill Community Action Program (YCAP). YAMCO is open to all the public and provides oncall services and regularly scheduled morning trips to Lafayette, Dundee, Newberg, and Sherwood as part of the LINK bus schedule. YAMCO also travels to Yamhill, Carlton, Willamina, and Sheridan. No regularly scheduled route is operational along the corridor, but the use of the on-call service to the corridor is expected to increase because of the hospital relocation.

Air/Rail/Pipeline

The only other mode of transportation directly affecting the corridor is air. The McMinnville Airport is located adjacent to the highway near the east end of the study area. It is an excellent facility with two 150-foot (45.7 meters) wide runways. One is a mile (1.6 kilometers) long and the other 4,750 feet (1,448 meters). The primary runway is equipped for instrument and night flying. Although physically capable of supporting a commuter airline, the field's close proximity to Portland makes it unlikely that a scheduled airline will operate from this

location for 20 or more years.

Presently, it is more feasible to drive to Portland International and fly direct for long distance flights. Shorter distances are more practical by automobile.

Charter flights are available for emergencies and short haul travel. Any expanded use of the airfield, such as for commuter type airlines, would increase automobile traffic along the corridor.

An existing rail system travels from south of McMinnville, through its center, and then parallels Highway 99W. It does not carry passengers and requires some upgrading to improve goods hauling. A plan to improve it to a 25 mph (42 kph) track is presently being considered. It is not expected to have any impact on the corridor's study area for the time frame of this study.

14 Transportation Inventory/Conditions 15

Traffic Forecasts

Modeling

The study used the Equilibre Multimodal, Multimodal Equilibrium (EMME/2) travel demand forecasting model. This program is a state-of-theart transportation planning tool, and is the standard for ODOT and many other transportation planning agencies. Development of the model for the McMinnville study relied on existing demographic, street location, trip generation, land use, and trip distribution data. The model was converted from the T Model 2 software which used 1991 data from the McMinnville Transportation Master Plan. In order to better estimate travel demand on streets and test transportation/land use alternatives, the conversion also included adding three traffic analysis zones and three external stations. These zones were established using criteria of current and future homogeneous land use, conformance with boundaries, and the street system. One land use alternative used growth within the current UGB and a second used growth in an expanded UGB. The EMME/2 model estimated only vehicle trips and did not include trips made by other modes-bicycle, pedestrian, or bus-because of the additional modeling costs coupled with the likelihood that the results would be insignificant.

Anticipated External Influences

One significant activity that will affect Highway 18 is the Spirit Mountain gaming facility near Valley Junction which was opened in October 1995 by The Confederated Tribes of Grand Ronde. The facility will include a gaming center, 150-unit recreational vehicle park, 200-unit motel, 18-hole golf course, and specialty retail shops. Construction will be in two phases with phase one consisting of the gaming center and RV park completed in 1995 and phase two completed in 2000. Based on information provided by the Confederated Tribes, Highway 18's traffic count is expected to increase by 5,700 ADT (500 ADT during evening peak hours) when both phases are completed. Phase one is expected to generate an increase of 2,600 ADT (230 ADT during evening peak hours). Sixty percent of the new traffic is expected to be from the Portland area. The projected traffic increase was included in the model.

Another gaming center, the Chinook Winds Gaming and Convention Center, is being constructed near Lincoln City by the Confederated Tribes of the Siletz Indians. It is expected to generate some additional traffic along the Highway 18. A temporary facility was opened in Spring 1995 and the permanent facility will open in May 1996. The amount of

traffic generated by this facility is included in the "background" of the model.

Existing and Future LandUses

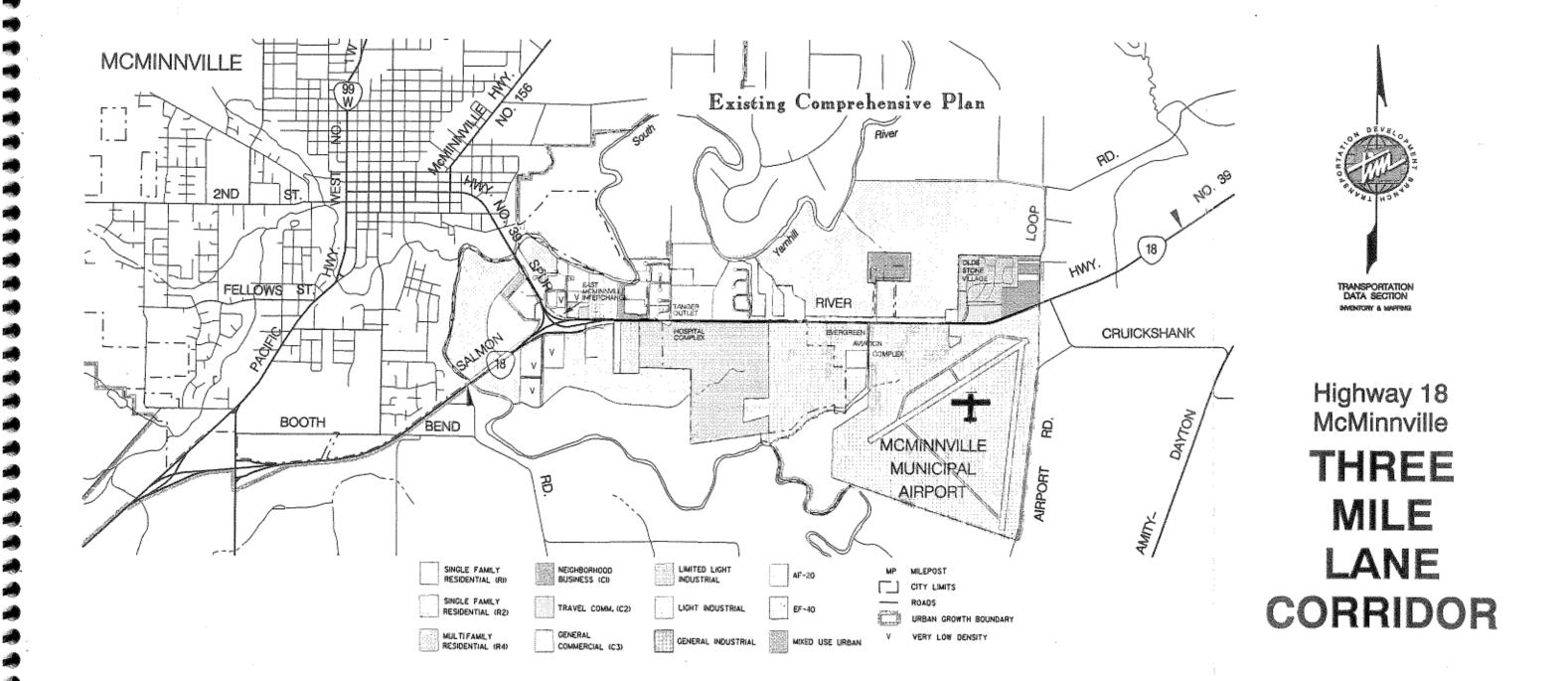
The land adjacent to Highway 18 is currently mixed use, with agricultural predominating. There are some farm homes along the highway, although four subdivisions and two mobile home parks represent the majority of residential homes. The Quail Ridge subdivision was completed in 1995 and borders the Highway 18 Spur. It consists of six homes and is flanked by a larger number of homes built in the 1960s and 1970s. Proceeding east on the highway's north side, there is an older residential area near milepoint 46.1, with homes from the 1940s and 1950s. North of the road near milepoint 46.7 (Norton Lane vicinity) is the Bend-O-River subdivision. In the last few years 35 homes were completed in this subdivision. Construction should be completed on all 76 lots before 2016. Approximately one-half mile east of Norton Lane is the Kingwood subdivision. This 1976 subdivision has 51 single-family homes and 31 duplexes. Slightly east of this subdivision, the Sun Retirement Corporation plans to build a 50-unit assisted living facility for the elderly. Olde Stone Village, north of the airport, was established in 1975 and has 163 mobile and manufactured homes. There is a potential for the Village to expand west into a 10.7 acre parcel. On the south side of the highway, near milepoint 46.5, is Evergreen Park (formerly Wheel Estates Mobile Home Park) with 97 mobile homes. This increase in residences along the route is projected to continue.

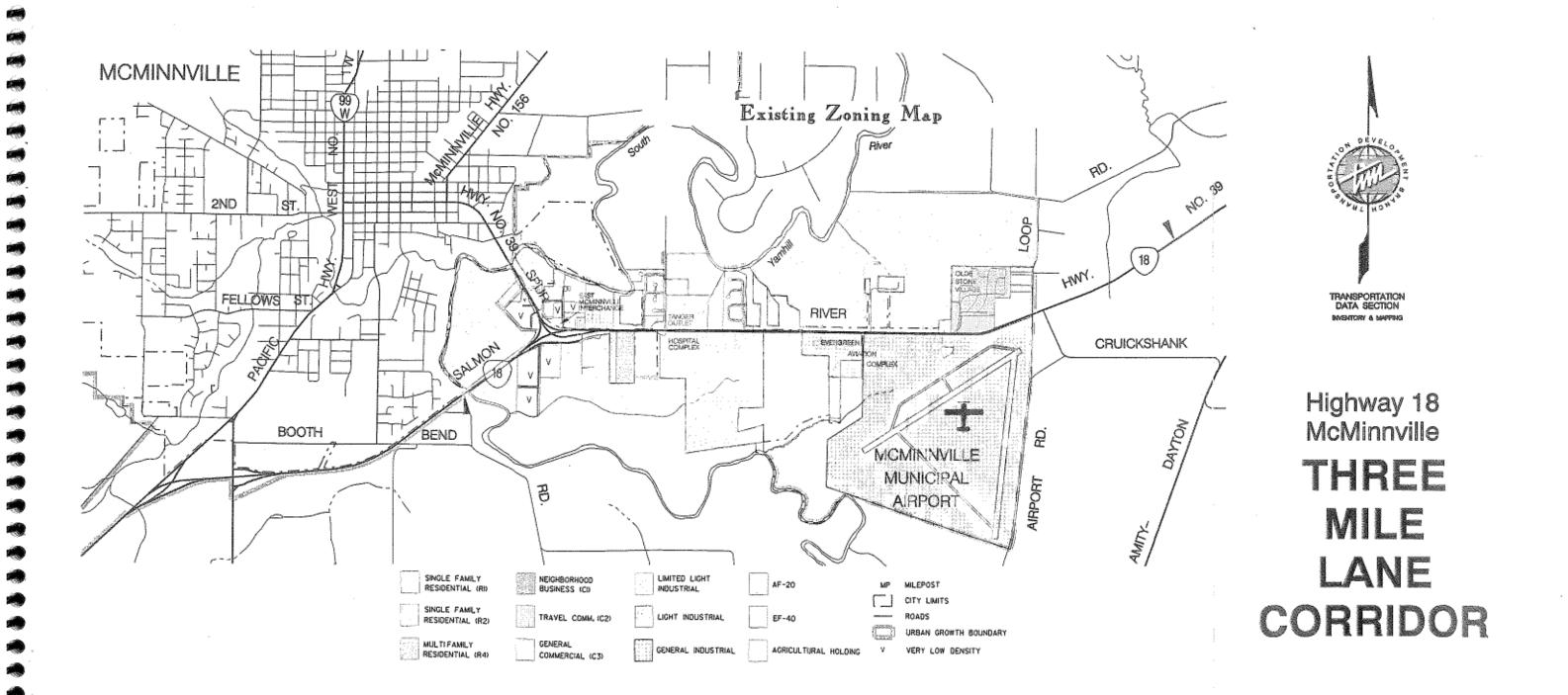
There are a few commercial, industrial, and public service uses along the highway. These range from the recently opened McDonalds restaurant and Tanger Factory Outlet shopping center to the long-time resident Evergreen International Aviation. The McMinnville Community Hospital is constructing a new hospital near the southern portion of Norton Lane. Phase one of this project will be completed in 1996. The Municipal Airport, Airport Park, and the Armory are the other public uses. Figure 2 shows the existing comprehensive plan designations and Figure 3 shows existing zoning.

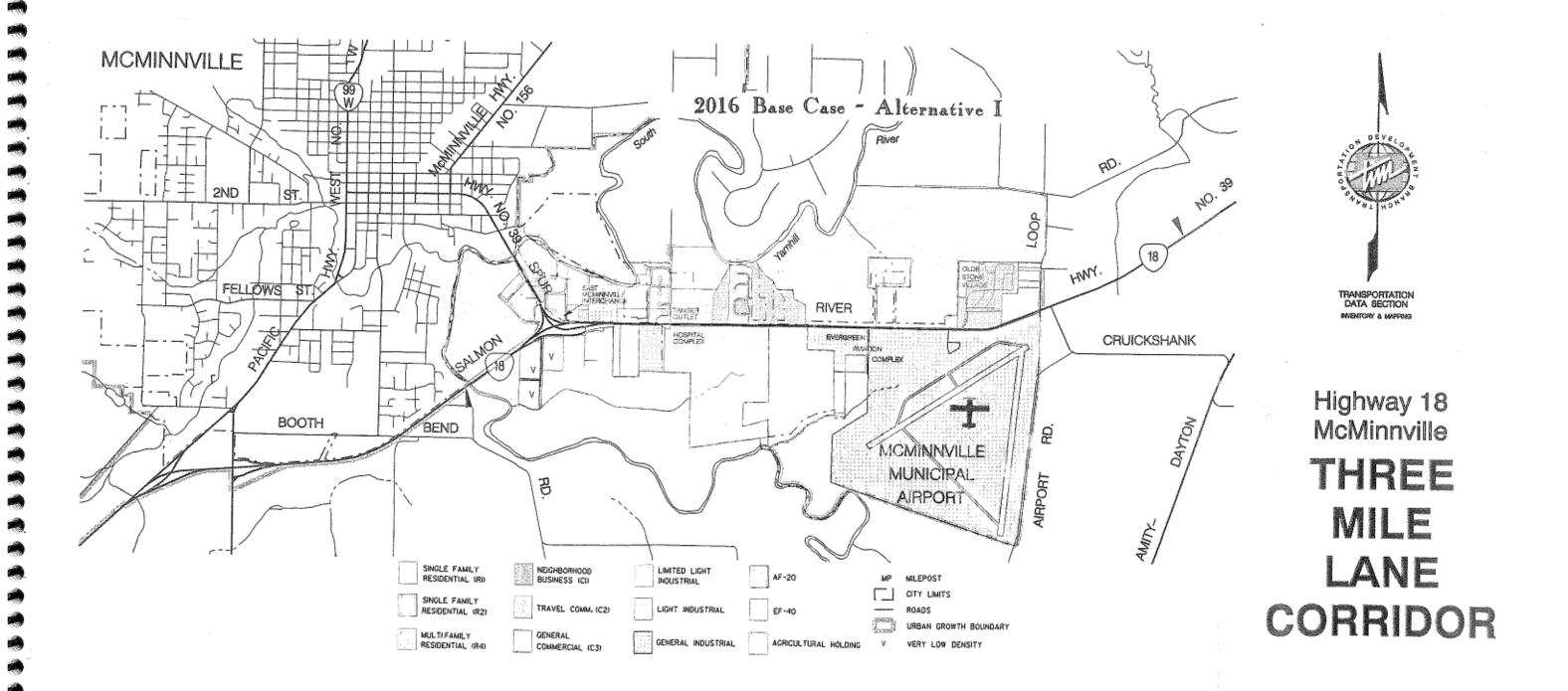
Because of its steady growth in the last few years, McMinnville needs additional commercial land. The Tanger Factory Outlet shopping center plans to expand its facility and there has been an increase in interest for establishing other commercial enterprises along the corridor. For the last three years there have been plans to build a large aircraft museum, featuring the Spruce Goose, near the airfield.

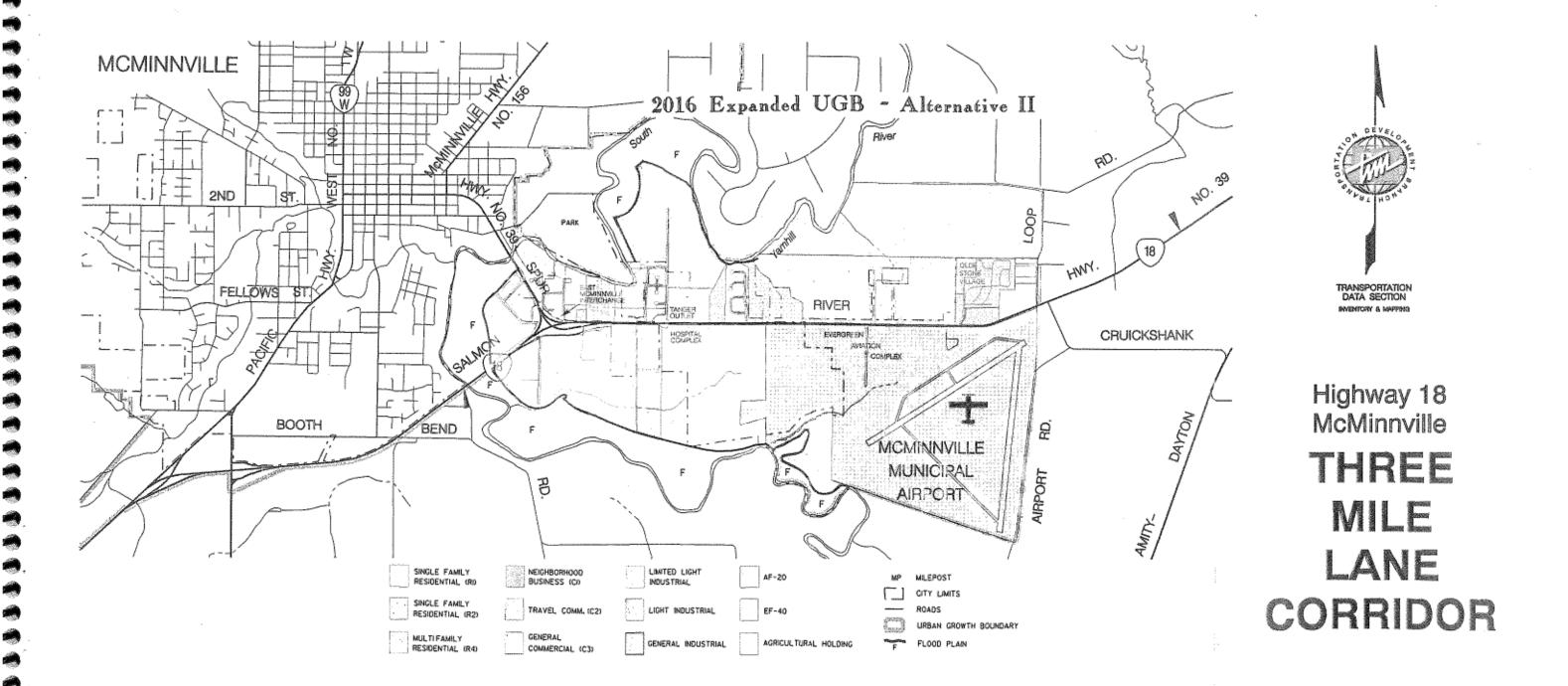
The steering committee selected two future 2016 land use alternatives for traffic forecasting. The first alternative, the 2016 Base Case, is shown in Figure 4. The base case assumes growth remains within the present urban growth boundary and follows the city's comprehensive plan. The second alternative, the 2016 Expanded UGB Case (see Figure 5), represents an extension of the urban growth boundary to the flood plain line to the south and includes Evergreen International Aviation lands to the north. The Expanded UGB Case increases the land within the UGB by roughly 550 acres. In this alternative, the UGB meets the city's expected need for more developable commercial land.

(Text continues on page 27)









Trip Generation

Table 1 shows the amount of growth on the Three Mile Lane area between the 1991 Master Plan year and the 2016 Base Case Alternative. The Base Case Alternative assumes full usage of current land use designation. From the table, one can readily see the large potential for growth in the number of employees and the number of households that will be using the Three

Mile Lane area for transportation. The growth is also consistent with the overall growth potential expected for the city as a whole. Table 2 shows the incremental change from the 2016 Base Case to the 2016 Expanded UGB. It depicts the additional increases in number of employees and households that can be expected to occur if the UGB is expanded and the increased area is fully used.

Table 1 1991-2016 Demographic Comparison* Three Mile Lane Study Area (TAZs 45-49, 69-71)

	Y	Year						
	1991	2016	Change					
EMPLOYEES								
Retail	51	311	260 (510%)					
Industrial	22	2069	2047 (9305%)					
Warehouse	0	753	753					
Hospital	0	417	417					
Government	10	17	7 (70%)					
Office	0	318	318					
School	0	0	0					
Other**	313	583	270 (86%)					
HOUSEHOLDS								
Single-Family	442	718	276 (62%)					
Multi-Family	11	740	729 (6627%)					

Page 55, EMME/2 Travel Model Development, June 1995, Kittelson & Associates, Inc.

Table 2 2016 Demographic Comparison Three Mile Lane Study Area (TAZs 45-49, 69-71)

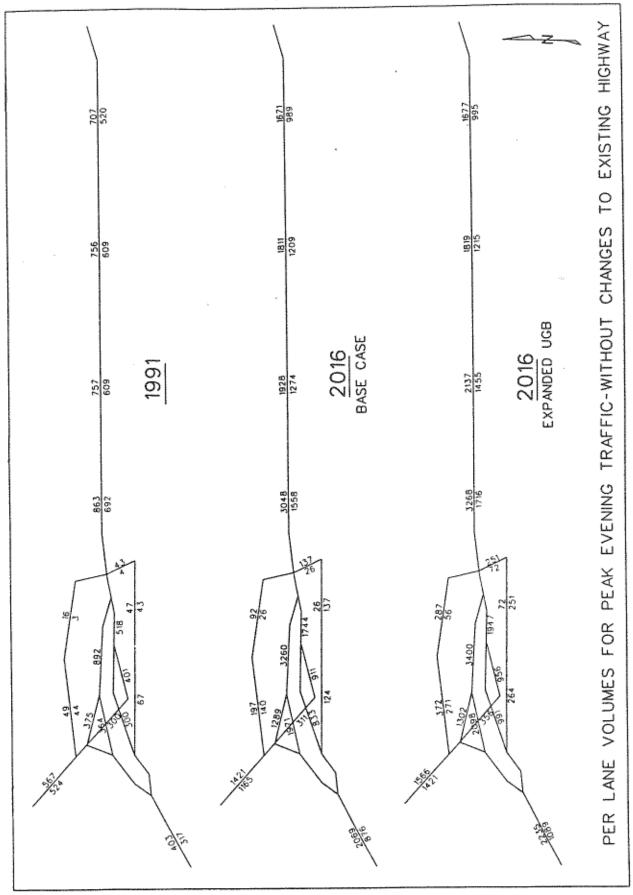
	2016								
	Base Case	Change							
	EMPLOYEES								
Retail	311	516	205 (510%)						
Industrial	2069	2069	0						
Warehouse	753	753	0						
Hospital	417	417	0						
Government	17	17	0						
Office	318	318	0						
School	0	0	0						
Other**	583	593	10 (1.7%)						
HOUSEHOLDS									
Single-Family	718	1296	578 (80.5%)						
Multi-Family	740	740	0						

Information extracted from page 73, EMME/2 Travel Model Development, June 1995, Kittelson & Associates, Inc.

Based on the increases in internal travel from a growth in local employment and households and in external travel, a corresponding increase in evening peak traffic volumes will occur along the study area.

Figure 6 depicts in detail the volume increases. One can note the more than doubling of traffic on the eastern end of the study area with a five-fold increase on the sestern end.

Figure 6



^{**} Includes Evergreen Corporation.

Trip Distribution and **Traffic Assignment**

Trip generation rates and equations used for calibration of the basic computer model were applied to the 2016 demographic information by traffic analysis zone to determine trip generation origins and destinations. Base trip origins were averaged with base trip destinations (by purpose) to balance the origin and destinations. A traditional gravity model was used to distribute the peak hour trips generated by the city's future household and employment centers.

Of the vehicle trips originating internally, 87 percent are headed to another internal destination. Of those vehicle trips which begin externally, 60 percent are also headed to an internal destination. Thus, of all trips in the area, over 83 percent will involve travel internally. This emphasized the necessity to provide a means for travelers to accomplish travel within the study area. Table 3 depicts the trips.

Table 3* 2016 P.M. Peak Hour Trips Internal and External Trips

Origin/ Destination	Internal	External	Total		
Internal	17,033	2,457	19,490		
External	2,228	1,466	3,694		
Total	19,261	3,923	23,184		

^{*}Page 61. EMME/2 Travel Model Development. June 1995, Kittelson & Associates, Inc.

Based on the trip distribution, the total 2016 Base Case Alternative evening peak hour traffic was assigned to various sections of the transportation network using an equilibrium assignment algorithm. The results show that roadways in the corridor would approach or exceed capacity under the Base Case Alternative. This indicates that the traffic increases from growth in the corridor as well as increases from external traffic cannot be accommodated on the present roadways within an acceptable LOS. Since the traffic forecast showed that projected traffic increases could not be handled with the present road system, the study's effort turned towards identifying the future needs and solutions for the area.2

Transportation Needs and Solutions

Needs

Technical Advisory Committee

With the information garnered from modeling future traffic, the study's efforts proceeded towards determining what was needed on the corridor to provide for growth through 2016 while still maintaining Level of Service (LOS) C.

A Technical Advisory Committee (TAC) was established to address the needs and determine possible solutions. The committee, composed of staff members from McMinnville, Yamhill County, Mid-Willamette Valley Council of Governments, ODOT Region 2, ODOT District 3, ODOT's Preliminary Design Section, and consultants from CH2M Hill and Kittelson & Associates, met five times during a six-month period. Between these meetings, subgroups met to discuss and resolve specific technical matters.

Analysis

One of the committee's earliest steps was to analyze the significant intersections to determine:

- The current level of service at the intersections.
- What happens to the LOS at these intersections by 2016 if no changes are made to the roadway system (nobuild).

- When the level of service at those intersections will decrease below LOS C.
- When the level of service decreases to LOS F.
- What intersection improvements could be made to maintain Highway 18 at LOS C.

A traffic operations analysis was conducted of twelve existing and proposed intersections critical to the highway's capability to carry traffic. The analysis used existing traffic counts and 2016 p.m. peak hour projections without expansion of the UGB. Future connections were tested to determine potentially viable solutions. The chart in Figure 7 depicts the analysis results.3

Although roads connecting to Highway 18 currently operate at much worse levels of service, the 1995 level of service on the Highway 18 corridor ranges between LOS A and B. Without further growth, it is anticipated these levels would be maintained for an extended period. However, as growth occurs and even with improvements to the intersection, Highway 18 at Norton Lane is expected to exceed LOS C in 2001, and LOS F before 2011. Also, with the no-build scenario, the

²An in-depth technical review of the analysis used in traffic forecasting may be found in the document EMME/2 Travel Model Development; McMinnville, Oregon; Kittelson & Associates, Inc: June 1995.

³Note: A more in-depth review of the analysis may be found in the CH2M Hill Technical Memorandum, Three Mile Lane Traffic Operations Analysis, June 7, 1995.

Highway 18 level of service will have deteriorated to LOS D at its intersection with Armory Way and to LOS B at its intersection with Cruickshank Road by 2016.

Solutions

Alternatives Selection

By the time preliminary review of impacts and analysis of the intersections was completed, two principle transportation alternatives had emerged. First, was an alternate bypass option (Appendix G). This concept envisioned rerouting the highway onto a new road constructed from an interchange west of Armory Way, proceeding southerly to the flood plain, then westerly to reconnect to Highway 18 west of the East McMinnville interchange. A variation of this concept began at a point east of the airport and then roughly followed the same track.

The second alternative reduces accesses to the highway so that the corridor area from Cruickshank Road west would eventually, after three phases of transportation development, only have two interchanges as direct access points. This concept includes developing a series of collector-access roads providing access to residential, commercial, or industrial property.

Although these alternatives were the two most promising, approximately a dozen other solutions or variations thereof were also studied. A description of these are contained in Appendix G. While studying these alternatives, the TAC recognized that encouraging multimodal opportunities was important to

the plan and that vehicular traffic solutions may impede the bicycle/pedestrian travel options. Therefore, as various solutions were studied, the TAC gave careful consideration to these other multimodal opportunities.

Because the alternate bypass and the collector-access road were the most promising options, the TAC began studying them in more detail. The process included compiling the advantages and disadvantages of each option, as shown on the following chart on page 35.

Since the typical collector-access road is located along areas where development is already occurring or has occurred and potentially has more chance of adverse impacts on existing development, it was decided to prepare its conceptional plan in greater detail. Given the financial framework which exists today, the capacity to phase the work was considered an important and major practical factor. Therefore, the TAC developed a plan which could be constructed in three phases. Implementation of the phases is triggered by anticipated degradations in levels of service. They can be compared against the existing system shown in Figure 8. The phases are:

Phase 1 (Figure 9)

- New exit ramp off the East McMinnville Interchange onto the existing frontage road.
- Realign southern frontage road and widen from new off ramp to Norton Lane.

(Text continues on page 36)

Figure 7
McMinnville Corridor Study Alternatives Analysis Without Urban Growth Boundary Expansion

This chart compares the effect of traffic for various road configurations

his chart compares the effect of traffic for various road configurations											
	Existing Conditions, 1995		No Build, 2016		Alternate A Signalized Inter	Alternate A, Phase I, 2016 Signalized Intersection at N/S Road		Alternate A, Phase II, 2016 Folded Diamond at N/S Road		Alternate A, Phase III, 2016 Diamond I/C at Hwy 18 Spur	
Hwy I8 & Cruickshank					and the second second	nt National States			,		
Left Turn Lune Storage Requirements			_	Same as Previous		Same as Previous		N/A		N/A	
LOS	A/F . A/Y	1-3	B/#		B/F 1.500m, dispersion			No Connection		· No Connection	
Туре	Unsignalized	1 " V	Unsignalized .		Unsignalized						
Phase	N'A		NA	<u> </u>	N/A · · · · ·						
Hwy 18 & Armory		1				2011 21		: ,			
Left Turn Lane Storage Requirements		- A S	_	Same as Previous		245		N/A		N/A	
LOS	B/E		- DE		CrF	1 '		No Connection		No Connection	
Туре	Unsignalized	7 My 5	Unsignatized		Unsignalized	3 10 5		-			
Phase	N/A	1	N-A		NA	1					
North Frontage & N/S Road		1	T T	-				111			
		N/A	i l	N/A						Same as Previous	
Left Turn Lane Storage Requirements		-1 100		1970	33		B/F		B/F		
LOS		4			Encontrol	× 4.5	Unsignalized	117	Unvienalized		
Туре		-1					N/A	LK®	N/A		
Phase					1	12000	NS-76804 (05-2016)	1.02	Section 1		
Hwy 18 WB Ramps & North Frontage & N/S Road							Decree Vertice	1 A A A	n home was the	Rapa, w. Passess	
Left Turn Lane Storage Requirements		N/A		N/A		N/A				i.	
LOS											
Туре		1					Constant		CONTRACTOR OF THE PARTY OF THE		
Phase				***				120-3			
Hwy 18 & N/S Road					NB-175 hi SB-325 fe			N/A		, N/A	
Left Turn Lane Storage Requirements		N/A	1	N/A	EB-260th - WB-50th			Grade Separated		Grade Separated	
LOS		7			the second second			Grade Septimied		Grade Separates	
Туре		1			Signalized						
Phase		1				1 7 111					
Hwy 18 EB Ramps & N/S Road		-					SV HEW	海 珠	1 Skills		
Left Turn Lane Storage Requirements		N/A		N/A		N/A	(共の時)的		1,040,000		
LOS		-				1 ' !		_2 2		Spine of the bench	
Туре		7				1	verones.				
Phase		1				1		11/2/2005			
South Frontage & N/S Road						1 × 1	NV Star Star Sa		appropriate and the same of th		
Left Turn Lane Storage Requirements		N/A		N/A		24	1.6-125-br., 344-1836	a 240 c	100 Sept. 100 Se	Barrier 117 (Final November	
LOS		1		,		1-4	A CONTRACTOR			10 m 30 m 41 m 42	
		-			Lip Haddack	1 1 1	DANGERS C	1117			
Type Phase					-x-5	1		111			
The state of the s	TO STATE OF		(Esceptition Con)		Exceeds LOS Can	î li					
Hwy 18 & Norton Lane	30(6-10) to	L> 11. 5.			2007**	그 시 스		BA		N/A	
Left Turn Lane Storage Requirements		1 4 y * 4		Same as Previous	+ 3	2		No Connection		No Connection	
LOS			: (į			
Туре	Seautopi	J. A. E.	Sentitled		Agnanzed 8	4 % (Y) (Y)			
Phase	_		+		T T		NB acin six darin	the state of the s	34 - 90a - 56-3756	111	
North Frontage & Hwy 18 Spur				N/A		1 1	titetata artestan	, 4	13-35 \$10-25k	La dil .	
Left Turn Lane Storage Requirements		N/A		IWA		\rightarrow \rightarrow \rightarrow		<u></u>		- ** * 2-	
LOS		1			B/F	A 5		S TO MARK	specifical	* 5111/	
Туре		1			Unsignalized	Y .	organizació	11		1111	
Phase		<u> </u>		· doing and a contract of the	N/A	//			NIC 777B		
Hwy 18 WB Ramps & Hwy 18 Spur									2.0 bi		
Left Turn Lane Storage Requirements		N/A		N/A		N/A		Ñ/A		- 4 11 A	
LO3	<u> </u>	1								401 7	
Туре		1							and only	(3.4) (1.4)	
Phase											
Hwy 18 EB Ramps & Hwy 18 Spor		1	T						7-10 - 10 - 10 (1)		
Left Turn Lane Storage Requirements		N/A		N/A		N/A		N//A	- 11 11- 11- 11- 11- 11- 11- 11- 11-	[/ 1] h	
LOS						1		1		- X - X - X - X - X - X - X - X - X - X	
		-{				1			organizacija.		
Type Phase		-				1					
									233-120-6a		
South Frontage & Hwy 18 Spur						1 1.		Sars - Creamon	A 19 16 26		
Left Turn Lune Storage Requirements		N/A		N/A		1_ 4	AB),	
LOS					NA.	4 ,	Continued		Secretarions	1/2 5	
Туре		_			Trail or National	1 7	Cadanca	K			
Phase		1			,						

^{**} Storage Lengths Not Accurate at This Level of Service

Alternate Bypass Alternative

Advantages

- Fully controlled facility
 - Will provide high LOS for through traffic
- Defines the limit of an expanded UGB
- Minimizes disruption to abutting built up property on much of the existing highway
- Provides for new bridges over South Yamhill River, extending capacity life of old bridges
- Simplicity
- Norton Lane could remain as location for north-south arterial

Disadvantages

- · Cannot phase the construction for most of the road
 - Requires larger amount of funding at one time.
- Makes no improvement to the East McMinnville interchange
- · LOS on existing Highway 18 will continue to degrade
- Potentially more adverse environmental impacts from flood plain and river crossings
- · Requires Goal 12 exceptions for number of lanes and location where route is outside the UGB

Collector-Access Alternative

Advantages

- Fully controlled facility
 - Will provide high LOS for through traffic
- · Can be phased to meet developing
- · Good access via collector roads, while maintaining high LOS on highway
- Flexibility in siting local roads
- · All-directional East McMinnville interchange
- All-directional new interchange
- Provides for bicycle/pedestrian traffic

Disadvantages

- · Construction spread over many years
 - Perceptions and disruptions
- Requires right-of-way protection for many years
- Out-of-direction travel for some residents may increase until full service East McMinnville interchange is constructed
- Some Goal 12 exceptions may be necessary for any collector-access roads which are outside the UGB

- Move the southern frontage road's connection to Norton further south to allow room for left turn storage on Norton Lane. (In progress.)
- Restructure the Norton/Highway 18 intersection to add additional lanes. Upgrade signal.
- · Improve the intersection at Cirrus Avenue.
- · Place a signal at the location for a second (future) interchange (where north-south interchange road will connect).
- Construct east-west collector-access road between the north-south arterial and Kingwood subdivision area.
- Construct east-west collector-access road between the north-south road and Armory Way south of the National Guard facilities.
- Close direct accesses to Highway 18 where east-west collector-access roads are built.
- Add left turn lane on Highway 18 Spur onto existing frontage road.

Phase 2 (Figure 10)

- · Align Nehamiah Lane across from frontage road, and install signal.
- · Construct and reconstruct northern frontage road from near Atlantic Street to the previously constructed east-west collector at Kingwood.
- · Replace signal at north-south road location with a full service interchange.

- Construct grade-separated jughandle intersection at Lafayette Highway and close Cruickshank Road connection to Highway 18.
- · Complete collector access roads from new interchange north-south road to Loop Road.
- · Complete collector-access roads from new interchange to Norton Lane and close Norton's connection to Highway 18.
- Construct collector-access road from Armory Way to Cirrus Avenue.
- · Close all remaining direct access to Highway 18.
- Construct bicycle/pedestrian crossing.

Phase 3 (Figure 11)

· Reconstruct the East McMinnville Interchange as a full service interchange

(Text continues on page 45)

Figure 8 Existing Road System and Urban Growth Boundary

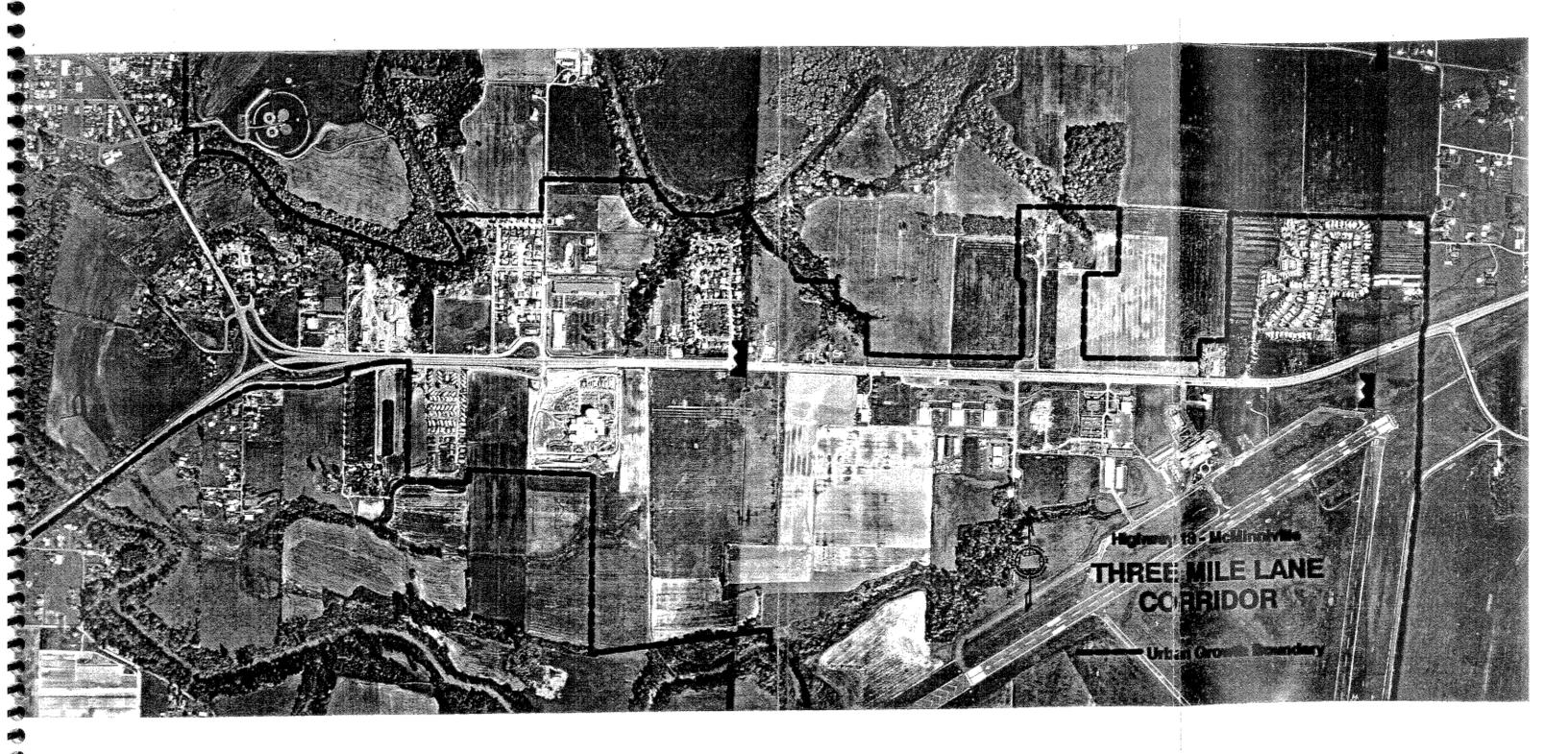


Figure 9 Collector-Access Alternative Phase 1

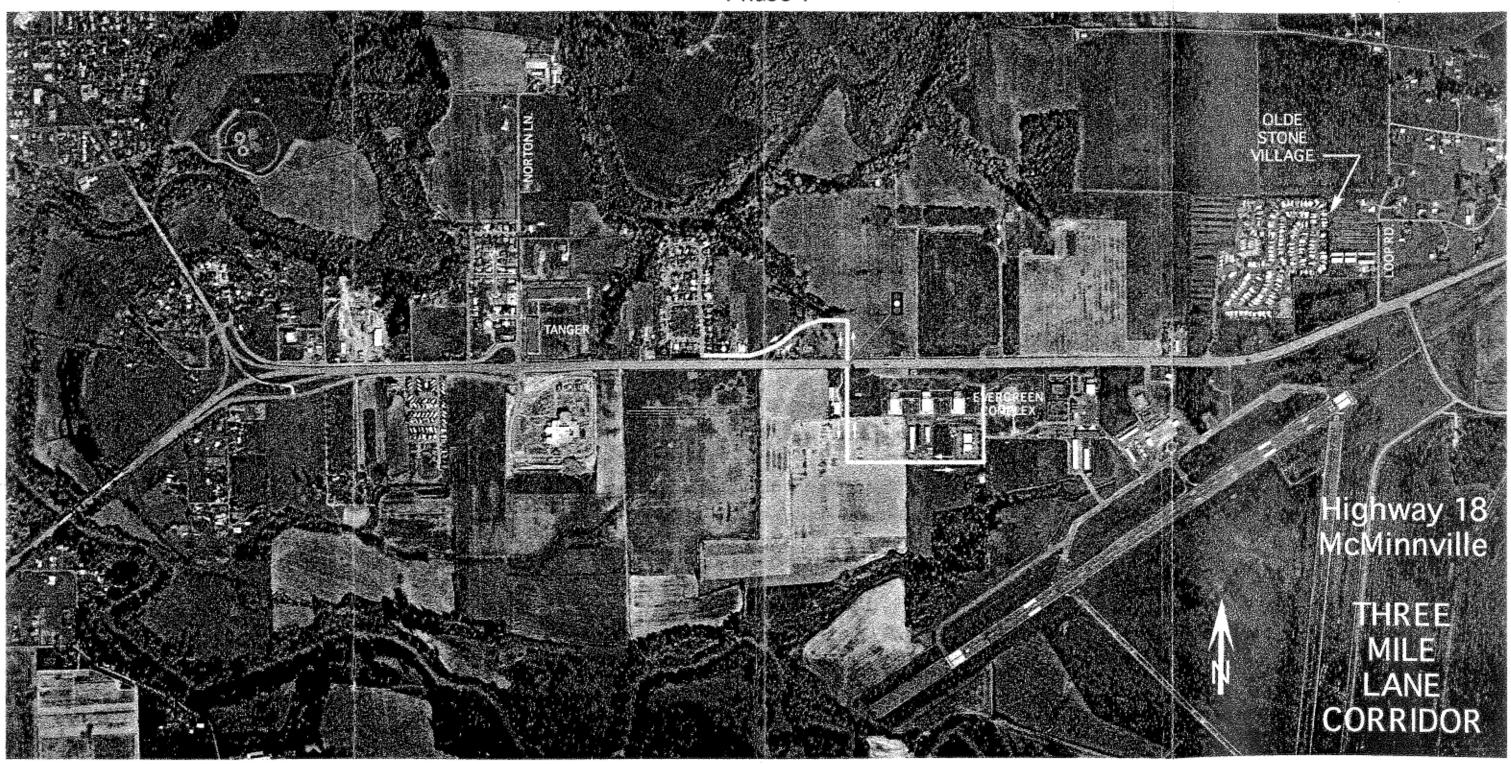


Figure 10 Collector-Access Alternative Phase 2

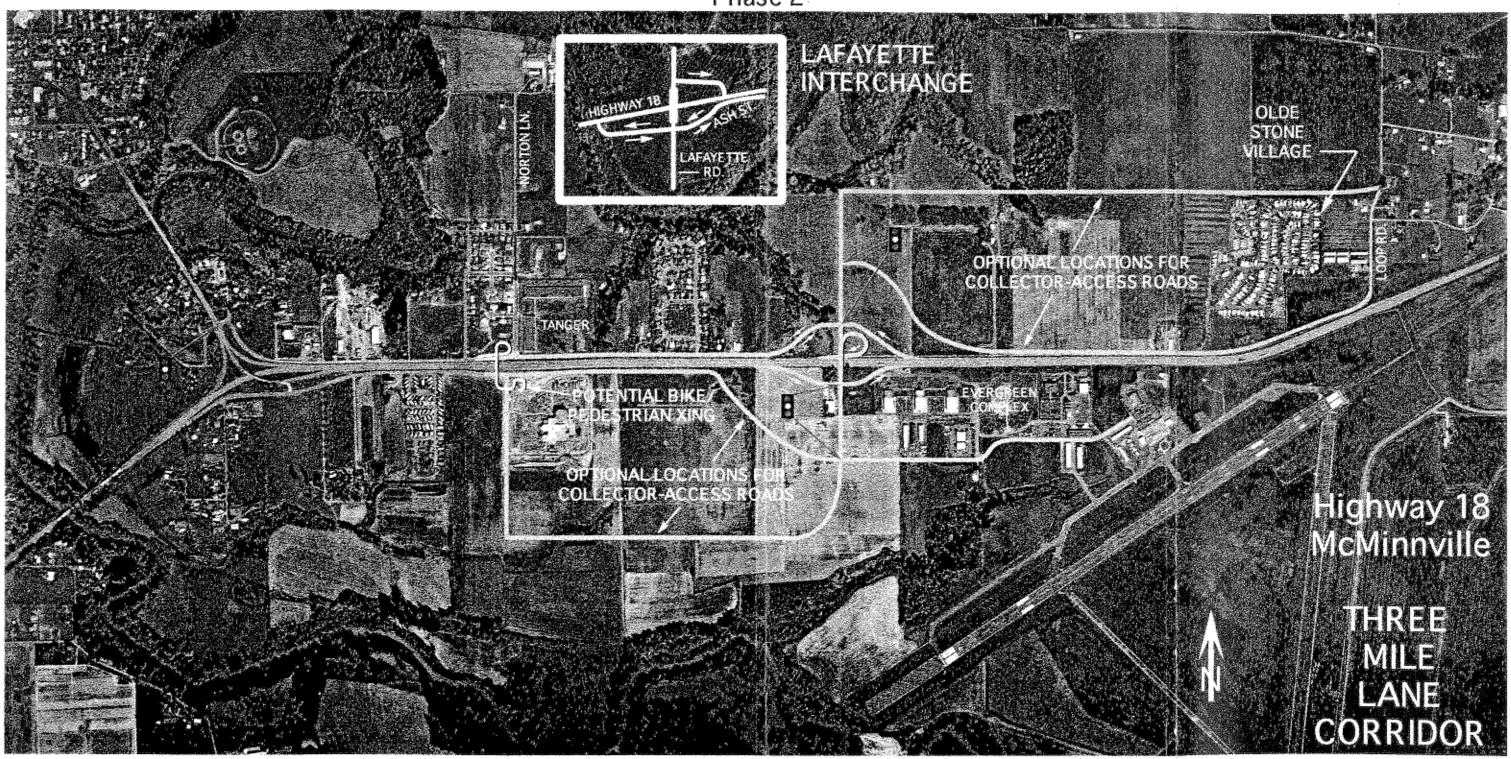
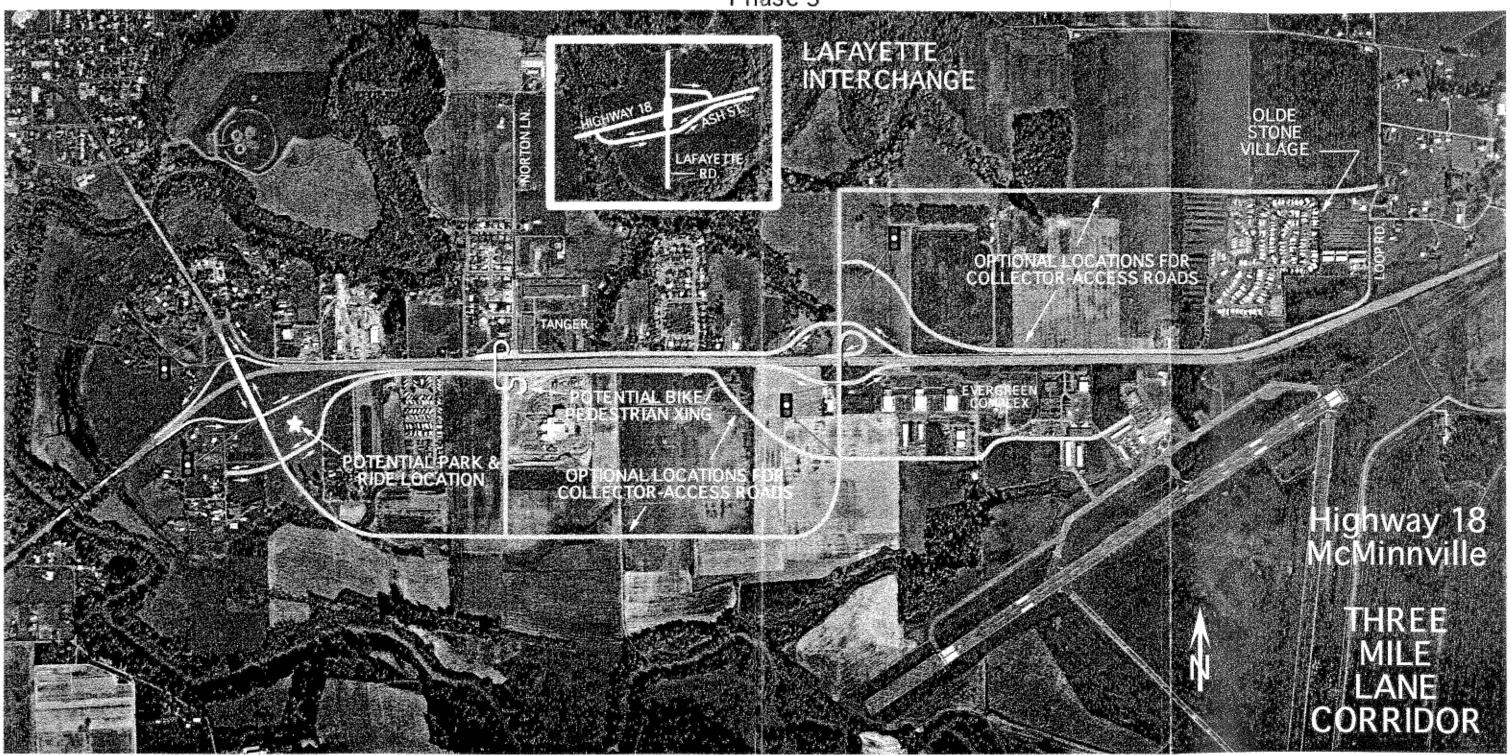
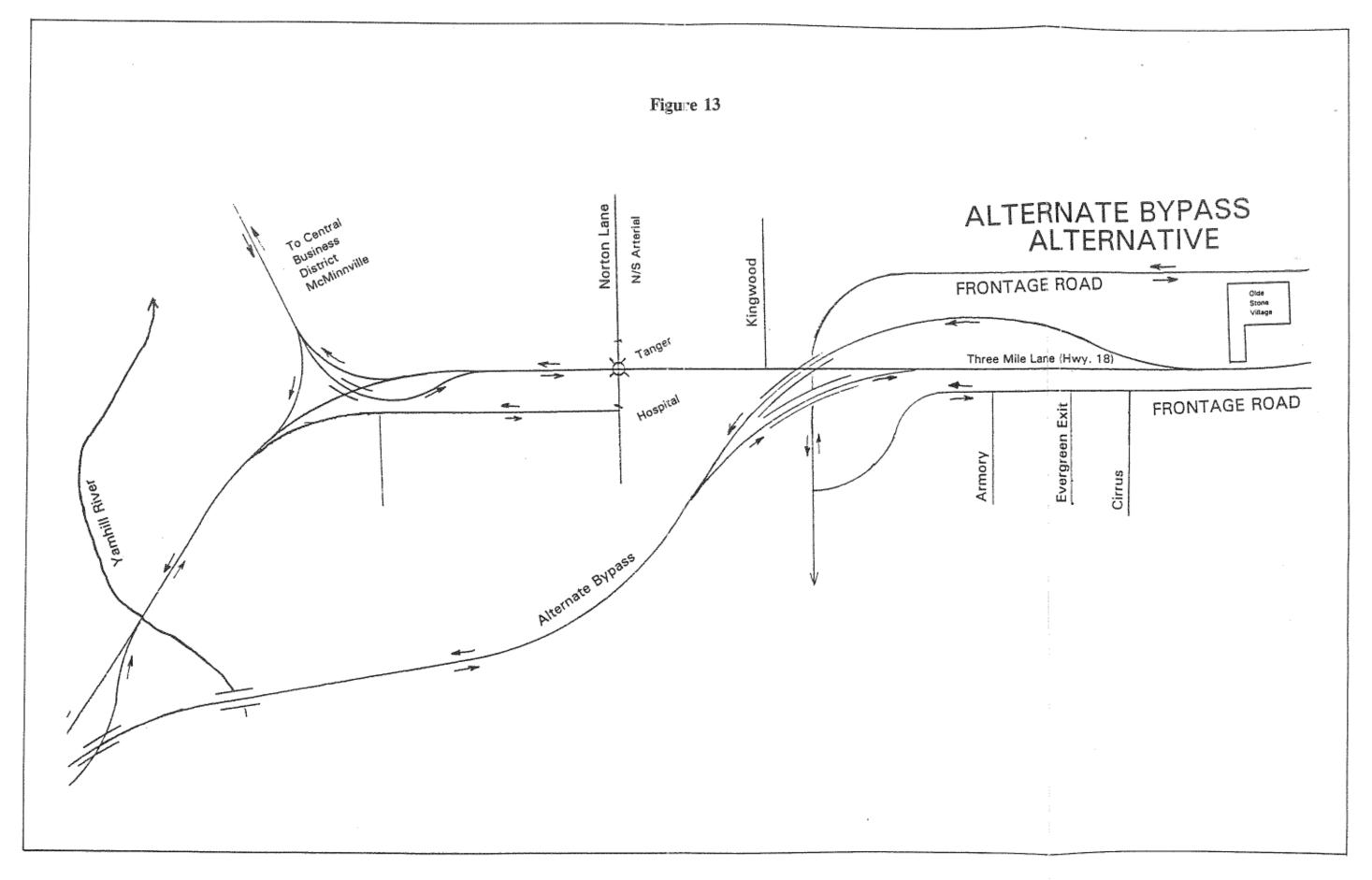


Figure 11 Collector-Access Alternative Phase 3



Transportation Needs and Solutions



Cost and right-of-way estimates were made for each phase of the collectoraccess road network and are shown in Tables 4 and 5.

Table 4 Construction Cost Estimates for Collector-Access Road Network

	Cost Estimates
Phase 1	\$2,700,000
Phase 2	\$11,200,000
Phase 3	\$6,600,000
Total	\$20,500,000

Table 5 Cost and Right-of-Way Estimates for Collector-Access Road Network

	Estimated Right-of-Way Required	Estimated* Cost
Phase 1	14 acres	\$900,000
Phase 2	56 acres	\$2,000,000
Phase 3	24 acres	\$1,300,000
Total	94 acres	\$4,200,000

^{*} It may be more practical to obtain some right-ofway necessary for Phase 2 at the same time as Phase 1.

Phase 1 requires approximately 14 acres at a construction cost of \$2,700,000. Phase 2 occupies approximately 56 acres and costs approximately \$11,200,000 to construct. Phase 3 uses approximately 22 acres with building costs of roughly \$6,600,000. The total right-of-way needed is about 94 acres with a total rough construction cost of \$20,500,000. The alternate bypass estimate for rightof-way acreage requires nearly the same as the collector-access road option with

estimated construction costs being approximately \$26,000,000.

The two alternatives were presented to the steering committee and the public for review and comment. After receiving public comments, the Steering Committee unanimously selected the collector-access road concept as the best option for meeting future needs.

Segmenting Phases

Both Phase One and Two can be segmented into components which can be implemented independently of the rest of the phase. This relies on intersection improvements in the near term to maintain LOS C and above, while deferring some improvements to a later date. Scheduling of the segments is discussed in the Implementation section of this document.

Landscaping

The Steering Committee strongly felt that the chosen alternative must allow for projecting a positive image of the area's livability. Therefore, it was extremely important to mitigate the impacts with landscaping. The TAC agreed that landscaping issues discussed in earlier sessions were possible and desirable in several areas, but that it would take project level planning detail to determined exactly where landscaping can be accomplished. Because of concerns over safety and maintenance responsibilities, the TAC did not reach consensus on the use of Highway 18's two-way center left turn lane for landscaping after the collector-access road system is completed. Some generic possibilities for other landscaping are shown in Figure 12.

Environmental

Environmental aspects were discussed and the TAC was cognizant of the environmental impact study (EIS) completed in March 1985. TAC members indicated that no environmental changes are known to have occurred along the corridor. An ODOT reconnaissance of the area supported the TAC's information. (The reconnaissance results are shown in Appendix D). Another opportunity to review environmental impacts will occur when major construction is scheduled and the required EIS is accomplished.

Travel Demand Management (TDM)

Demand Management techniques are generally accepted as a tactic to reduce automobile travel on a congested roadway. These techniques will become more productive as traffic congestion increases through a Level of Service D. A program applicable to the Three Mile Lane corridor will aid in reducing the growth of travel along this area. However, the commuting population to major metropolitan areas is gaining in significance and early applications of urbanwide TDM measures will have an even greater overall benefit with a spinoff benefit for the corridor. The McMinnville Transportation Master Plan contains a list of the various options likely to be successful citywide, with an estimate of the reduction in vehicle trips expected. Accomplishing the Master Plan's recommendations as soon as feasible will have a positive effect on the corridor.

The study area's largest (400-500 employees) employer, Evergreen International Aviation, presently uses a

vanpool program to move employees to various work locations in Portland and Salem. The hospital also has a significant number of employees (290); however, shift operation reduces the number of vehicles at peak hours. The city should work with current and new businesses to encourage a method of reducing employee traffic during critical traffic hours. One incentive already in place is a reduction in charges under the city's systems development charges when a developer can implement methods to reduce transportation needs. This study does recommend the city establish a carpool/vanpool program which extends beyond the corridor area. Adapting the self help or volunteer programs used by many agencies for many different programs, it is believed a self help carpool/vanpool program could be successful at minimal city cost.

Nonmotorized (pedestrian and bicycle) travel options are included in the collector-access road alternative by including sidewalk, bikeways, and overcrossing provisions along and between the collector-access roads.

Because TDM measures will be put into place as area development occurs, a dramatic effect is unlikely to be noticed; however, they will help to reduce expansion from local area traffic. The measures will indirectly benefit through traffic.

Recommendations for transit are also included in the implementation section. Presently, Yamhill County (YAMCO), a division of the Community Action Agency of Yamhill Co, Inc. (YCAP) provides an on-call (dial-a-ride) service which includes service to the hospital at its present location. It is expected the

demand for service to the hospital will continue for the new location. YAMCO is monitoring and taking an active interest in development along the corridor and is preparing to meet the need as it arises.

46 Transportation Needs and Solutions 47

-

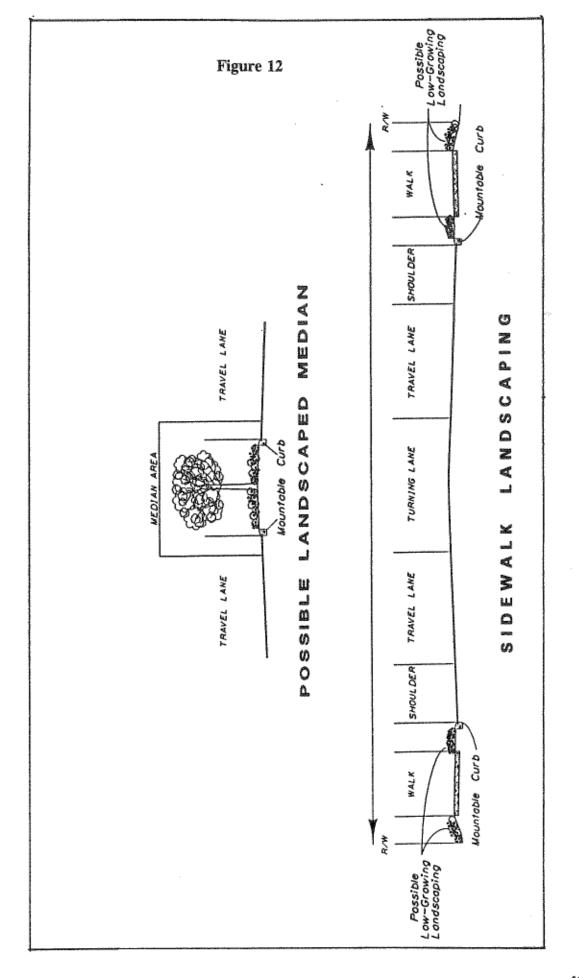
Section 200

Ame Zall

ALC: N

CHARLES THE STREET





Public Involvement

This section describes the methods and results of participatory sessions with citizens, elected officials, and staff members of McMinnville and Yamhill County.

Four public meetings were held to increase public awareness of the process and its relationship to the McMinnville Transportation Master Plan. Additionally, the meetings provided the public with opportunities to participate in problem solving by identifying issues. concerns, and solutions. Another aspect of the public involvement process was to set up a steering committee. The committee's membership consisted of county, city, and state staff along with representation from the county commission and city council. The steering committee provided direction to the study.

The steering committee held its first meeting in McMinnville in December 1994. The committee discussed the study's purpose and proposed public involvement workshops. The members received a 23-page information brochure on commuting patterns, population estimates, traffic counts, accident locations, and major property ownerships, etc. Preliminary discussions were held on land uses along the study area. The committee suggested names of individuals, groups, and organizations who should be invited to meetings and involved in the public planning process. The goals and objectives of the study were reviewed with the committee.

Refer to Appendix E for steering committee minutes.

The next major public involvement activity was an Open House on January 9, 1995 at the Army National Guard Armory on Armory Way, which connects to Highway 18. Two advertisements were placed, one week apart, in McMinnville's News-Register. Additionally, the paper published an article explaining and announcing the meeting. Flyers were mailed to households and businesses along the highway as well as other individuals, groups, and organizations that could have an interest in the study's outcome. The flyer explained the study's purpose, process, and time lines. It contained a description of the study area and a mailin survey. Despite two inches of rain. the open house was well attended by 49 people. The open house featured a video of the study area; displays of current land uses, traffic counts, accident locations, and commuting patterns; and opportunities to identify problem sites and solutions. The News-Register covered the event and a photo feature was printed the following day.

The second steering committee meeting was held in McMinnville on January 19. 1995. Commissioner Dennis Goecks replaced Debi Owens as the elected member from Yamhill County. Mr. Richard Hayes, a member of the public who had expressed an interest in following the steering committee's work, also attended. The meeting

consisted of a review of the open house results (Appendix F) and discussion and acceptance of two future land-use scenarios for testing transportation alternatives. One scenario assumes buildup of lands within the existing urban growth boundary (UGB) as shown in the city's comprehensive plan. The second scenario assumes buildup of lands in an area larger than the existing UGB. The second scenario was included in the testing because the committee believes the city will have justification for an UGB expansion before 2016. The comparison of the two scenarios will allow a comparison of land use impacts when the road fails to meet level of service standards. The committee's goal is to maintain Highway 18 as a through road with a 55 mile-per-hour traffic speed capability.

After the second steering committee meeting, a summary of the open house and mail-in surveys was compiled and mailed to interested individuals. Following the mailing, there were some public inquiries (telephone, in-office) concerning the study.

Following the series of technical advisory committee meetings to develop transportation alternatives, the third steering committee meeting was held on June 8, 1995 to review the TAC's work. Following review, the steering committee expressed they were leaning toward the frontage road (collectoraccess) option primarily because it could be phased in as needed. They authorized staff to present the two alternatives at an open house to obtain public feedback.

Following the same notification procedures used earlier, the open house was held on June 19, again at the National Guard Armory with 58 individuals attending. Thirty-five of these completed a survey. Support for the frontage road (collector-access) alternative predominated. However, the alternate bypass alternative also gathered a strong following.

On July 12, members of the steering committee met with the owner and highlevel staff members of Evergreen International, a major landowner and employer along the corridor, to discuss and review the developing transportation plan. The discussion resulted in clarification of the company's concerns and potential modifications that could alleviate their concerns. Some significantly different alternatives were also proposed by the Evergreen staff.

On July 13, the steering committee held its fourth meeting to review the public input and to discuss methods of implementation. The committee unanimously selected the collectoraccess alternative as the best all-around option. They also devoted considerable attention to modifications of collectoraccess roads east of the proposed new interchange and decided to present all the options as part of the draft plan which would be the next step in the study.

On August 22, rendering of the transportation concept for Three Mile Lane was also presented at the Yamhill Transportation System Plan Open House. Using this aid, there was an opportunity to discuss the collector-road alternative with several landowners along the corridor. The only major concern verbalized was a desire not to have to build any new network;

however, there was a desire to continue the excellent road operation currently being enjoyed.

On October 27, following completion of the draft plan, the steering committee conducted a workshop to review the document and the transportation network. During the meeting, the steering committee expressed the desire to conduct a more detailed review of an underpass connecting Cruickshank and Loop Roads, a northerly shift of the existing highway, as well as a variation which would reroute traffic to a redesigned Lafayette intersection. Although this required an extension of the plan's completion date, the group felt it important to look at these possibilities. Additionally, they recommended a change in presenting the solutions so that the final solution is presented in the main report while the in-depth discussion of all the studied alternatives, solutions, modifications, and operations were placed in the appendix.

On December 7, following completion of the earlier tasks, the steering committee reconvened the workshop to review the new information. The review resulted in altering the easterly end of the collector-access road network by closing Cruickshank Road and routing traffic to an overpass jughandle intersection at Lafayette intersection. Additionally, the collector-access road to the airport was located behind the Evergreen facility.

On December 14, a follow-up meeting with Evergreen staff was held to review the recently studied options and modifications. The Evergreen staff felt the collector-access road south of their

facilities alleviated their concerns in that area.

In January, individual meetings were held by the COG staff with the airport manager, the fixed base operator, and airport commission, Olde Stone Village, C. C. Meisel Trucking, Burch Concrete, and N.W. Logging to review and receive comments on the plan.

Implementation

This section is the "how to" portion of the plan. Some actions within a phase will have a traffic volume associated with them. The volumes are a "trigger" to indicate a necessary action is approaching and the need for the action must be revalidated. Action items relying on traffic count "triggers" are shown in italics. Some action items may carry over between groupings. All estimates are at 1995 costs. Jurisdictions (City/County) shown above the action items indicate those involved with the item. Individual action items using phrases such as "the state must . . . " or "the city should . . . " are used to indicate the lead agency and do not imply sole responsibility for the action or its financing.

Immediate Implementation

The items in this section are those which should be accomplished or started by state, city, or county agencies as soon as possible.

City/County

Hold required public hearings and adopt this plan as part of the McMinnville Transportation Master Plan and Yamhill County Transportation System Plan.

Adopt an agreement addressing automatic transfer of county roads to the city when a specific area is incorporated into the city.

State/City

Adopt an Intergovernmental Agreement which provides a mutually acceptable arrangement regarding access permits and development approvals.

YAMCO bus service should consider scheduled service to the corridor area with stops at the Willamette Valley Medical Center, Evergreen, Olde Stone Village, and the Tanger Factory Outlet.

Modify Ordinance No. 4131 to increase the setback from the centerline of Highway 18 for sections where a three-lane collector-access road bordering Highway 18 is anticipated. Presently, the ordinance requires a 120-foot setback which leaves one foot available for construction purposes. This requirement can be reduced by 14 feet for any area where the frontage road will be two lane and no future widening is

Begin to investigate and develop a carpool/vanpool program.

Update the Airport Master Plan to show the location of collector-access roads from Armory Way to the FAA/FBO parking area.

Begin Goal 12 exception process for applicable sections of roads.

The action items listed in phases 1 through 3 are largely dependent upon the extent and rate development occurs along the corridor. Although development is currently proceeding at a rapid rate, it could slow or cease for several years. Should that occur, many of the more extensive construction projects may become unnecessary during the period of this report.

Phase 1A

State/County/City

Begin acquisition of right-of-way. Phase one of the system will require approximately 14 acres. The land (approximately 26 additional acres) necessary for the proposed interchange between Highway 18 and the northsouth arterial is critical and consideration should be given to acquiring this land as soon as possible. Some methods to acquire right-of-way are:

- ▶ Outright purchase as property comes open for sale. If homes are included in the purchase, they should be rented to prevent vandalism and satisfy public concerns over waste of resources. It is possible homes could support other public programs such as low income housing programs. If land consists of small lots, the parcels could be loaned to neighboring landowners for gardens, etc. in exchange for weed and grass control.
 - Annually, real estate agencies in McMinnville and nearby communities should be notified of the state and city's interest in purchasing property for right-of-way. Additionally, landowners along the route could also receive notices.
- Enactment of an ordinance which requires, as a condition of development, dedication of right-of-way.
 - The amount of right-of-way is based on the amount of traffic development is expected to generate.
 - The procedure is similar to that used for systems development charges.
 - The city of Salem recently developed such an ordinance. This could be used as an example.

Annually, following adoption of this plan, the state should evaluate traffic counts at the intersection of Norton Lane and Highway 18. If the combined, total weekday evening peak hour traffic count on the Highway 18/Norton Lane intersection is approximately 2,200 (a growth rate of 3.5% per year), additional turn lanes (up to two lanes from the southern approach and one additional on Highway 18's western approach), signal upgrade to eight phase operation, and the interim new connection from the East McMinnville interchange to the southern frontage road will be necessary.

- When the traffic count reaches the level above, an updated level of service calculation should be completed to confirm the LOS is degrading as originally anticipated by this document. If verified, the state, city, and county should work to ensure the interim new connection at the East McMinnville interchange and a Norton Lane intersection/signal upgrade be accomplished before the Norton Lane intersection is forecast to exceed LOS C.
 - The city should prepare to realign and connect the southern frontage road from Norton to the interim East McMinnville connection.
 - The city should ensure the southerly leg of Norton will accommodate traffic needs (in progress).
- ▶ The total estimated cost is \$1,300,000 with a breakdown as follows:
 - Modify frontage between Norton and Lawson \$950,000 (This figure does not account for the existing road, so actual costs are likely to be lower.)
 - New connection at East McMinnville interchange \$160,000
 - Upgrade and/or replace signal at Norton \$100,000
 - Adjust southern leg of Norton to accommodate additional vehicle stacking (in progress) \$110,000

Construct a left turn lane on Highway 18 Spur to northern frontage road.

City/County

Restrict conflicting left-turn movements between Loop Road and Cruickshank Road by blocking some movements, by aligning Loop Road across from Cruickshank Road, or by other means. Although an interim measure, several years of safe service can be gained before full closure of both roads is needed.

56 Implementation

Phase 1B

State/City

THE STREET, ST

If not already completed, construct interim new connection at the East McMinnville Interchange, modify existing frontage road, add turn lanes and upgrade signal at the Norton Lane intersection.

The city conceives a north-south arterial from Highway 99W to Highway 18 may be necessary at some time in the future. Even if the north-south arterial is not completed, the portion connecting to an essential interchange is necessary to provide land access along Three Mile Lane.

- Prepare to install a traffic signal on Highway 18 to accommodate the new connection. Estimated cost
- Concurrently, ensure construction of the collection access road from Kingwood to the north-south connecting road. This will result in the removal of five Highway 18 direct accesses. Estimated cost is \$570,000.

Annually, following adoption of this plan, the state should evaluate traffic counts at the intersection of Highway 18, Armory Way, and Cirrus Avenue. If the combined, total weekday evening peak hour traffic count for the intersections is approximately 2,000 vehicles, additional lanes may be necessary to maintain an LOS above C.

- When the traffic count reaches the level above, a level of service computation should be accomplished to confirm the LOS is degrading as anticipated by this document.
 - Begin planning for construction of the collector-access road between Armory Way and the northsouth connecting road, and following construction, close Armory Way. The estimated cost is \$520,000.
 - Accomplish improvements to Cirrus Avenue. The estimated cost is \$43,000.

Finalize location of future bicycle/pedestrian overcrossing of Highway 18. The general location is presently anticipated to be near Norton Lane.

Begin development of environmental documentation for the proposed interchanges.

Implementation 57

Phase 2

State

Annually, after construction, the state should evaluate traffic counts at the intersection of Highway 18 and the north-south road, and at the intersection of Highway 18 and Norton Lane. If the combined, total weekday evening peak hour traffic count for the N-S/18 intersection is approximately 2900, the interchange improvement segment of Phase 2 may be necessary to maintain LOS C through 2016. If the combined, total weekday evening peak traffic count for the Norton/18 intersection is 3000, closure of Norton and rerouting to the north-south arterial along connecting collector-access roads is necessary.

- A level of service computation should be completed to verify whether the LOS for both intersections is degrading as anticipated by this document.
 - The estimated cost is \$5,700,000 for the interchange.
 - The city should concurrently plan for the construction of the collector-access road between Armory Way and Cirrus Avenue to coincide with interchange construction.
 - The city should ensure the collector-access roads from Norton Lane to the north-south interchange are in place. The estimated cost is \$1,800,000.

If warrants are met, place a signal at the intersection of Highway 18 Spur with the northern frontage road and Nehamiah Lane. Estimated cost is \$120,000

State/City

State constructs Highway 18 and north-south arterial interchange, replacing signal. City completes collector-access road from Armory Way to Cirrus Avenue (estimated cost is \$390,000). State/city constructs pedestrian/bicycle overpass (estimated cost is \$700,000).

State/city/county constructs park-and-ride lots near convenient accesses to Highway 18 (estimated cost is \$2,000 per space).

- ▶ Close the Cirrus Avenue intersection with Highway 18.
- Close Norton Lane intersection with Highway 18, and all private intersections between Norton Lane and the north-south arterial.

State/County/City

Annually, the state should evaluate traffic counts at the intersection of Highway 18 and Loop/Cruickshank Road. If the combined, total weekday evening peak hour traffic count for the Loop/Cruickshank/18 intersection is approximately 2000, it indicates the closure of Loop and Cruickshank Roads direct access to Highway 18 may be necessary to maintain LOS C.

- A level of service computation should be accomplished to verify the LOS for the intersection is degrading as anticipated by this document. The county should begin detail planning for closure of Loop and Cruickshank Roads connection to Highway 18, connection of Loop Road to a northern collector-access road between Loop Road and the interchange's connecting road and connection of Cruickshank Road to Lafayette intersection.
 - The estimated cost of a collector-access road from Loop Road to the north-south interchange road is \$2,160,000.
 - The estimated cost of an overpass with jughandle approaches at Lafayette intersection is \$2,500,000.

Phase 3

State

Conduct an analysis of the East McMinnville interchange to evaluate its LOS. If LOS is degrading as anticipated, the state and city should begin actions to obtain a full service interchange. The estimated cost is \$5,250,000. Modifications to frontage roads in the immediate vicinity of the interchange is an additional \$1,750,000.

State/City

Construct full service interchange in place of the present East McMinnville interchange.

Every five years after adoption of this plan, the state, county, and city should review progress towards completing the action items contained herein.

Financing

This portion of the Implementation section describes methods available for funding proposed projects. Many of these projects will require funding from more than one jurisdiction, even when only one jurisdiction has responsibility for and authority over the improvement being made. This situation results from a concept that cities and/or counties who wish a project to be constructed by the state can enhance the probability of the work being done if they contribute to project financing. Also, there is a concept that those who generate the need for improvements should either pay or share in the costs. Consequently, developers are also expected to share the expenses of new construction, either through right-of-way dedication or roadway construction, or both. A portion of the land necessary for the

projects is currently in county jurisdiction and it is to the county's advantage to participate in funding projects which directly or indirectly benefit county residents. This portion of the plan will address these possibilities.

Systems Development Charges (SDCs)

ORS 223.297 requires local governments who impose SDCs to:

- Complete a plan that lists the capital improvements that can be funded by SDC fees, and the estimated cost and timing of each improvement. This plan meets that requirement.
- Limit the expenditure of SDC fees/charges to those capital improvements that are required to increase capacity because of uses generated by current or projected developments.
- Place the SDCs collected in a separate account and provide an annual accounting of revenues received and projects that were funded.
- Use a resolution or ordinance to establish the methodology for calculating the charge and make it available for public inspection.

The City of McMinnville's Ordinance
No. 4585 (Amending Ordinance
No. 4495, Chapter 3.10 of the
Municipal Code) adds the provisions
necessary to implement a systems
development charge for transportation
and Resolution No. 1995-14 provides
the methodology used to establish the
transportation systems development
charge for work projected by the 1994
Master Transportation Plan. This
resolution can be modified or amended
to include a systems development charge
for the work projected under this plan.

Local Improvement Districts (LID)

Another city option is formation of a local improvement district for the area in the study. This can be initiated by the property owners or by the city, subject to remonstrance (protests). These districts can be used when the benefit of the work is essentially confined to one area. With the LID, the cost of a project is distributed to each property according to the benefit that property receives. Since the work proposed in this plan is phased to accommodate increases in traffic from development, it may be difficult to determine benefit to properties that are not yet developing. The cost distributed becomes an assessment or lien against the property. It can be paid in cash or through assessment financing. McMinnville Municipal Code, Chapter 3.12, contains some information relative to this financing option.

Urban Renewal Districts

Oregon Revised Statutes 457 allows an Urban Renewal District to be formed for the corridor area. This allows the district to issue tax increment bonds for the work. Since these bonds use dedicated property tax increases resulting from increased valuations of property in the district to pay for the public improvements, they are influenced by the property tax cap. The 1994 rate is \$8.44/\$1,000 which leaves \$1.56 available.

Exactions (Conditions of Development)

System improvements can be required as a condition of development. The process requires the city to demonstrate how the improvements they require are necessary to accommodate the impact generated by the new development.

Miscellaneous

There are other mechanisms available to finance the corridor work. Gas Tax and Vehicle Registration Fees are the most traditional methods. However, the city and the county typically exhaust these funds accomplishing ongoing maintenance, repair, and minor construction projects. The local jurisdictions do have authority to impose local gas taxes. The McMinnville Transportation Master Plan estimates a one cent county gas tax would generate over \$340,000 of which the city's share would be approximately \$92,000.

Some economic development programs also offer a source of funds. The Immediate Opportunity Grant program managed by ODOT provides a maximum of \$500,000 for public road work associated with an economic development related project of regional significance plus the underlying project must create primary employment. Additionally, although lesser amounts

will be considered, the grantee should provide an equal local match. Another economic development related source of funds is the Special Works Public Works Fund. This fund provides grants and loans for public work which supports private projects that result in permanent job creation or job retention. Loans are emphasized in this program and are available up to \$11 million for a maximum of 25 years, unless the project's life is shorter. The maximum grant is for \$500,000, but may not exceed 85% of the project cost.

State

The above methods of financing are those used by local, city, and county jurisdictions. The state has fewer options and relies almost exclusively on gas tax, vehicle registration fees, and federal transportation programs for funding projects. However, the state has begun to enhance its funding by requiring contributions from local iurisdictions or cost sharing when developments have significant traffic impacts. The latter method is being used for improvements on U.S. Highway 101 near Lincoln City. These cost sharing techniques may become more prevalent if federal funds decrease in the future.

The federal funds presently available under the Intermodal Surface
Transportation Efficiency Act of 1991 will terminate in 1997 and a new funding bill will need to be authorized.
It remains to be seen whether a new bill will be more or less flexible, or whether more or less funds are available.
ISTEA is more flexible for the state than the previous program since more authority was delegated. The perceived

nationwide success of this approach will help determine if restrictions are loosened further or tightened. Overall funding levels and the portion available to various state governments are influenced by many factors. While one may presently speculate, the uncertainty will be resolved by the time projects in this plan are constructed.

Many of these uncertainties also prevail at the state level. Historically, increases in state gas taxes generally do not provide more than a catch-up for inflationary pressures on the cost of construction or to provide a means to correct deferred maintenance. In general, it is expected the state will continue its course of requiring some contributions or cost sharing before significant work such as interchanges are constructed.

60 Implementation 61

Appendix A: Definitions and Acronyms

Access Management: Measures regulating access to streets, roads, and highways from public streets or roads and private driveways. Measures may include but are not limited to restrictions on the siting of interchanges, restrictions on the type and amount of access to roadways, and the use of physical controls, such as signals and channelization including raised medians to reduce impacts of approach road traffic on the main facility. (Ref. OAR 660-12-005)

Arterial Highway: A highway primarily for through traffic, usually on a continuous route.

Average Daily Traffic (ADT): The annual average two-way daily traffic volume. It represents the total traffic for the year, divided by 365.

Collector-Access: A term used to describe a road or system of roads providing land access.

Corridor Plan: A long-range plan for managing and improving transportation facilities and serves to meet needs for moving people and goods.

Demand Management: Actions which are designed to change travel behavior in order to improve performance of transportation facilities and to reduce need for additional road capacity. Methods may include but are not limited to the use of alternative modes,

ridesharing and vanpool programs, and trip reduction ordinances. (Ref. OAR 660-12-005)

Divided Highway: A two-way highway on which traffic traveling in opposite directions is physically separated by a median.

Frontage Road (Local Service Road): A local street or road located parallel to an arterial highway for service to abutting properties for the purpose of controlling access to the arterial highway.

Interchange: A facility that separates intersecting roadways and provides directional ramps for access movements between the roadways. The structure and the ramps are considered part of the interchange.

ISTEA: The federally enacted Intermodal Surface Transportation Efficiency Act of 1991 which provided authorizations for highway, highway safety, and mass transportation for the following six years.

Level of Service: A qualitative measure of the effect of a number of factors on transportation service including speed and travel time, traffic interruptions, freedom of movement, safety, driving comfort, and convenience.

Modes of Transportation: Mass transit, air, water, pipeline, rail, highways, bicycle, and pedestrian. The terms "modes," "mode connectivity," and "intermodal" refer to these transportation means.

Rural: Any area not included in a business, industrial, or residential zone of moderate or high density, whether or not it is within the boundaries of a municipality.

TPR: The state Transportation Planning Rule contained in Oregon's Administrative Rule, Chapter 660, Division 12, which implements the statewide planning goal 12 (Transportation).

UGB: Urban Growth Boundary. A line drawn around a geographic area which separates urban use lands from resource, or rural, use land.

Urban: Any territory within an incorporated area or with frontage on a highway which is at least 50% built-up with structures devoted to business, industry, or residences for a distance of a quarter mile or more.

Urbanizing: Areas within an urban growth boundary that are undeveloped.

Appendix B: Document Listing

State of Oregon

1991 Oregon Highway Plan	ODOT	June 1991
Oregon Transportation Plan	ODOT	September 1992
State Agency Coordination Program	ODOT	December 1990
1993-98 Six Year Transportation Plan (Proposed)	ODOT	May 1992
Handout, Interchange Styles	ODOT	January 1987
Traffic Volume Tables	ODOT	1989, 1990,
1991, 1992		
Handout, General Corridor Plan Process	ODOT	August 1992
Handout, Transportation Corridor Planning	ODOT	November 1992
Handout, ODOT Transportation System Planning Guidelines	ODOT	October 1992
Access Oregon Highways Corridor Studies	ODOT	February 1990
Highway Compatibility Guidelines	ODOT/UO	June 1987
Draft EIS- East McMinnville Inter.	ODOT/FHA	March 1984
Draft Transportation System Planning Guideline	ODOT	December 1993
Interoffice Memo: Proposed Cruickshank Road Underpass Salmon River High, McMinnville, Yamhill County, CO37-5162-007	ODOT	August 1995
Letter: Highway 18 McMinnville Refinement Plan, Preliminary Summary of Environmental Issues	ODOT	October 1995
Interoffice Memo: Three Mile Lane Corridor Right of Way Estimate	ODOT	October 1995

City of McMinnville

McMinnville Community Hospital June 1994 Transportation Impact Analysis City of McMinnville Transportation June 1994 Master Plan McMinnville Municipal Airport December 1989 Master Plan McMinnville Comprehensive Land August 1994 Use Map November 1993 McMinnville Zoning Map McMinnville Comprehensive Plan Vol II, Goals and Policies Varied Vol III, Implementing Ordinances November 1994 Zone Change Request - Lot 100,4,4,22D

Yamhill County

February 1992 Yamhill County Road Management Plan Yamhill County Comprehensive Plan, February 1978 1974 with addendum Draft Yamhill County Transportation July 1995 System Plan Yamhill County Zoning Ordinance September 1992 Yamhill County Zoning Map September 1992 Aerial Maps Varied Property Maps 1994 Intergraph Disc MWVCOG.DGN January 1974 Soil Survey of Yamhill County

Miscellaneous

Intergovernmental Agreement #12,677
System and Corridor Refinement Study,
pages 7-17

COG/ODOT August 1994

Implementing Effective Travel Demand Management Measures	USDOT	September 1993	
1990 Census, Transportation Data	USDOC	1990	
Yamhill Community Action			
Program Bus Schedules (YAMCO & LINK)	YCAP	1994	
Chapter One, Overview of EMME/2	Manuf.	May 1994	
Roadway Corridor Map Environmental Screening	NCDOT	April 1991	
ATEP Trans. Analysis - Tanger Factory Outlet	ATEP	December 1992	
Kittelson Technical Memorandums: - McMinnville Community Hospital Highway 18 Access Design - Norton Lane/Highway 18 Traffic	Kittelson	June 1995	
Threshold Analysis		July 1995	

Appendix C: Study Requirements

McMinnville Transportation System and Corridor Refinement Study

Salmon River Highway (OR18, OR233) South Yamhill to Lafayette Highway Section

Introduction

This statement of work outlines the tasks to be completed to analyze a section of the Salmon River Highway, also known as Oregon Route 18 and Oregon Route 223 (hereinafter referred to as "OR18") Transportation Corridor between the South Yamhill River and the Lafayette Highway. The corridor refinement study (hereinafter referred to as "Study") will supplement the work already completed in the Draft McMinnville Transportation Plan (hereinafter referred to as "Plan"). The Study will provide a facility management and improvement document (hereinafter referred to as "Document") which will become part of the Plan. It will be adopted as part of the local comprehensive plans by the City of McMinnville ("City") and Yamhill County ("County").

The Study will accomplish several objectives:

- (1) General corridor planning
- (2) Identify the transportation facilities and improvements necessary for acceptable movement of goods and people within and through the area
- (3) Consideration of alternative modes of travel
- (4) Transportation demand management (TDM), transportation systems management (TSM), and combinations of these with existing modes of travel in the corridor
- (5) Evaluate a "no build" alternative, one that does not result in new transportation facilities
- (6) Short and long term improvements to facilities in response to state, regional, and local needs

B-4 Appendix B

- (7) Identify strategies required to transition from existing conditions to what will be necessary to accommodate the anticipated transportation needs of the future
- (8) Evaluate replacement of existing intersections with one or more separated grade interchanges
- (9) Evaluate a system of local road connections to future interchanges

The Study and its results will be accomplished consistent with the provisions of the Oregon Transportation Planning Rule (TPR) and the 1991 Intermodal Surface Transportation Efficiency Act (ISTEA). Amendment of local comprehensive plans by the City and County to adopt the findings herein, may extend beyond this date.

Refinement Area Identification

The Study area encompasses the land area between the South Yamhill River and the Lafayette Highway reliant upon OR18 for direct or indirect property access. A more precise area will be identified at a later point to accomplish this Study.

Goals and Objectives for the Study Plan

Goals and objectives will need to be based upon providing acceptable operation of transportation facilities using the Level of Service (LOS) concept. An acceptable LOS for this section of OR18 is established by the <u>Oregon Transportation Plan</u> as LOS "C", based upon volume/capacity ratios. LOS standards for other studied facilities will be established in the Plan.

The alternative that best responds to identified transportation needs may require transition of this section of OR18 into a highway which meets the 1991 Oregon Highway Plan's Category Two Access Management Standards. If this occurs, the following tasks will need to be performed:

- Identify the general location(s) for a future separated grade interchange
- (2) Identify future network of roads providing property access within the refinement area, including a future McMinnville beltline road connecting to Highway 99W near the northeast city limits
- (3) Identify road network connections between the existing and proposed interchanges
- (4) Develop the facility management plan which will allow the transition to occur
 - (a) Identify when certain transition steps need to be taken, and
 - (b) How the land access function will be reduced over time
- (5) Provide for transition facility management between the current conditions and the future solution

(6) Provide for multimodal facility improvements determined to be needed

Public Involvement

The outcome of the Study's public involvement process will be to increase public awareness of the Study, its purpose, necessity, and relationship to the Plan, and to provide a forum to share ideas and to identify issues and concerns. Agency involvement will consist of a steering committee representing the City, County, and State.

General public involvement will be ongoing throughout the Study. A minimum of four advertised public information workshops as well as other means of disseminating information to the public will be provided. The first meeting will focus on identifying community transportation issues, concerns, goals, and objectives. The second and third meetings will occur during preparation and evaluation of alternatives, and the final meeting will present the prepared document. The need for further public meetings during the study will be decided by the steering committee. Additional means of involving the public, such as newsletters, fact sheets, newspaper inserts, utility bill inserts, and other techniques will be used if considered appropriate and reasonable by the steering committee.

Determine Constraints on Facility Development

Information from the City, County, and state and federal agencies will be used to identify environmental, social, economic and energy constraints on future facility development. Information to be studied will include applicable federal, state and local regulations, plans and policies, wetland locations, significant natural areas, historic buildings, cemeteries, parks, schools, scenic areas and other environmental features that could affect the location of future transportation facilities.

Review Existing Plans, Policies and Standards

Regulations, plans and policies pertinent to the analysis of alternatives and facility development will be identified and incorporated as the framework for the Study's development. Land use, demographic and economic data used in preparation of the Plan will be reviewed for validity and to ensure consistency with the goals and objectives of this Study. If determined necessary, the Plan's information will be updated or revised for use in the Study.

A land use conversion sensitivity analysis will be completed for all land in the refinement area. The analysis will identify existing land uses and underutilized or vacant land, and will consider consequences on transportation facilities of potential

C-2 Appendix C C-3

conversion of rural and urban land use (amendment of land use designations) to more intensive activities. Land within the urban growth boundary also will be evaluated using a structure value/land value analysis based upon Yamhill County Assessment records. The effect of existing land use designations, development review provisions, engineering standards and other development requirements will need to be incorporated into the analysis.

Regulations, plans and policies applicable to the study include:

- (1) 1991 Intermodal Surface Transportation Efficiency Act
- (2) National Environmental Policy Act
- (3) The Oregon Transportation Plan
- (4) Adopted modal plans and applicable administrative rules
- (5) ODOT Interchange Management Policy
- (6) McMinnville Comprehensive Plan
- (7) McMinnville Airport Master Plan
- (8) City of McMinnville Three-Mile Lane Planned Development Overlay Ordinance #4131
- (9) Yamhill County Comprehensive Plan
- (10) Oregon Statewide Planning Goals and adopted administrative rules, including the Transportation Planning Rule requirements

Inventory Existing Transportation Systems and Facilities

This inventory will identify existing public and private facilities within the refinement area, including bicycle and pedestrian facilities, bridges, public transit and intercity bus operations, and airport facilities. Inventory activities will also identify any existing conflicts between transportation modes. Inventory work is intended to be supplemental to the work already accomplished for the Plan.

Determine the Transportation Needs

Statewide, regional and local transportation needs will be evaluated. Local needs include:

- (1) McMinnville airport operations and road connections to the airport
- (2) A McMinnville beltline connection
- (3) Intermodal connectivity and facility development
- (4) Special transportation needs
- (5) Safety needs
- (6) Needs created by existing and proposed development, including the Oregon AirVenture Museum and the McMinnville Hospital
- (7) All transportation needs included in the Plan

The needs are to be projected to the year 2016, unless a longer planning period is established by the steering committee.

Conversion and Analysis of McMinnville Transportation Model

The existing computerized model for McMinnville will need to be converted into a stand-alone EMME/2 model. The converted model will be analyzed to determine if additional work is necessary for it to adequately characterize the effect of anticipated development in the refinement area, the conversion of land use to other more intensive uses, and the transportation needs identified. Revisions to the model will be made as necessary to accommodate the refinement area development consistent with the Study's goals and objectives.

Systems Refinement Planning Within the Refinement Area

All significant anticipated land uses in the refinement area are to be included in development of a transportation refinement plan. The results of the planning will:

- (1) Establish what type of transportation facilities will be needed to serve development (arterial, collector, local streets, intercity bus facilities, etc.). Major road and intermodal connections within the refinement area, and the role of local transit and intercity bus services shall be considered.
- (2) Identify and evaluate alternative locations within the refinement area for a future interchange, including land use and environmental impacts, funding possibilities, cost to the public, and associated user costs (NOTE: the alternative selected must be consistent with the provisions of the TPR and ISTEA).
- (3) Evaluate whether alterations to the East McMinnville Interchange should occur.
- (4) Identify future roadway connections between the East McMinnville. Interchange, the future interchange, and all property within the refinement area.
- (5) Identify alternative locations for future roads providing a land access function.
- (6) Identify alternative solutions to transportation needs, including TDM and TSM, and modal shift potential.
- (7) Evaluate associated system benefits and costs, including impacts on vehicle miles, public safety, and system performance (LOS).

Planning efforts will be aimed at a design year of 2016, including build-out of the urban growth boundary and likely conversion of rural land within the refinement area.

C-4 Appendix C C-5

Improvement needs at five-year intervals and in conjunction with development proposals will be identified.

The Study's developed goals, objectives, and policies will be reviewed and revised, if necessary. The Plan will be modified as needed to provide for facility operations consistent with the Study's LOS standards, and to accommodate system refinement planning issues, including TDM and TSM. If an interchange is determined to be necessary, sufficient design will be provided to identify its approximate location as well as future arterial and collector roads within the refinement area.

Develop Implementation Mechanisms for the Study

Implementation techniques to be developed will include:

- Interim transportation facility management ordinances
- Progressive development of a land access road system that is consistent with the developed plan and results in the interchange and area street
- Identification of facility improvement phasing based upon five-year increments throughout the planning period
- Identification of funding mechanisms for road construction; development of a financing program to accomplish the Study
- A means to allow conversion of land use in conjunction with the development of the transportation facilities
- (6) An access management plan for the refinement area, including access spacing for streets and driveways connecting to the local area streets

Oregon Department of Transportation



Appendix D: Study Memorandums INTEROFFICE MEMO

August 10, 1995

TO:

-

-

-

(mark) -

John Detar

Corridor Planning Project Manager

FROM:

Bernie Kleutsch

Engineering Geologist

986-2600

File Code:

SUBJECT:

Proposed Cruickshank Road Underpass

Salmon River Highway, McMinnville Yamhill County, C037-5102-007

These are my comments on the feasibility of a proposed underpass at Cruickshank Road. The design scheme I considered is a simple excavation to bring Cruickshank Road about 25 feet below its existing grade at the intersection with the Salmon River Highway.

My main concern at this point is the groundwater and soil conditions at the site. For this level of investigation, I researched groundwater reports and water wells logs for the area; and made a site visit to observe topographic features, land use, and local road designs. The slope gradient also was measured from the subject intersection to a possible drainage area about 2,000 feet to the east.

GROUNDWATER

Two types of groundwater are important to consider for this project. The first one is the regional 'static' water level, which is the level normally measured in wells. The second type is the intermittent, perched groundwater we observe at the beginning of the wet season of the year and in the summer from irrigation of farmlands. Both types are important to account for in drainage and erosion control plans.

A literature search yielded the following information. The seasonal low regional groundwater elevation in the project area is about 30 feet below the ground surface. The seasonal low elevation is measured in the fall when groundwater is at its lowest level. Fluctuations in groundwater during the wetter times of the year can be 10 - 15 feet higher than the seasonal low levels1. Therefore, the

Ground Water in the Eola-Amity Hills Area Northern Willamette Valley, Oregon, (Geological Survey Water-Supply Paper 1847, Plate 1, 1967)

anticipated high groundwater elevations may be only 15 to 20 feet below ground. If this is true, then an excavation of 25 feet will likely encounter groundwater during part of the year.

Local water well logs support this information, however none are very close to the actual excavation site. If this project proceeds to the design phase, I recommend a monitoring well be established at the exact project site and used to record water levels throughout the year.

The intermittent, perched groundwater condition is much harder to evaluate during a study such as this. However, some assumptions can be made. It is reasonable to assume that this site receives periodic and seasonal rainfall events and, given the nature of the soils, water will be slow to infiltrate causing surficial saturation and runoff on steeper slopes such as road cuts. This will cause erosion problems in the cuts and add an additional source of water to be mitigated by the overall drainage design.

SOILS

The soils encountered within the depth of interest for this study are identified on well logs as silt and clay. Geologic mapping indicates the silt and clay is part of the Willamette Silt² geologic unit found throughout the Willamette Valley. The silt and clay have low permeability, so they transmit groundwater slowly.

The existing roadway ditches do not show evidence of significant erosion problems with this soil, however their gradients are also very flat. If steep ditch gradients are designed, some erosion protection would likely be needed. Subgrade soil problems due to high static groundwater should be expected unless drainage designs are included in the project to correct the problem. Typical highway cut slopes for fine-grained soils should be suitable if properly graded and vegetated.

GRADIENTS

The elevations were checked by staff of the Region Geology office from the subject intersection to a drainage culvert about 2,000 feet to the east. The difference in elevation between the Salmon River Highway pavement at Cruickshank Road, and the flow line at the drainage culvert was 38 feet. This difference may be enough for a designer to create a drainage plan for the proposed excavation. However, the drainage plan may also require raising of the Salmon River Highway grade by a few feet. Also, it would be a significant excavation in itself to dig a deep trench 2,000 feet to the drainage culvert.

CONCLUSIONS

The proposed excavation at Cruickshank Road appears feasible. Prior to actual design, a monitoring well should be established at the site to measure seasonal water levels. A special drainage design will likely be needed because of high seasonal groundwater conditions. This design might include a trench and drainage culvert to an outlet location about 2,000 feet to the east. Typical cut slope designs for fine-grained soils should be suitable with proper erosion control.

Highway 18 McMinnville Refinement Plan

Preliminary Summary of Environmental Issues

Land use and socioeconomic impacts are the principal environmental issues related to the Highway 18 McMinnville Refinement Plan. In addition to these major issues there are many other environmental issues which will have to be investigated and are further detailed in this analysis. No environmental issues have been identified which would require terminating the project or prevent a successful outcome. Potential environmental impacts are large enough that development of either alternative will most likely be classified as a Class 1 project requiring a Draft Environmental Impact Statement (DEIS) and a Final Environmental Impact Statement (FEIS).

Two principal alternatives are currently under consideration for the McMinnville Corridor Refinement Plan. These are the Existing Highway Alternative and the Bypass Alternative. The Existing Highway Alternative involves upgrading the current condition of Highway 18 through the construction of an additional interchange, reconstruction of an existing one, and the addition of a public road network that will eliminate many of the direct accesses to Highway 18. The Alternative Bypass option involves construction of a new highway bypassing the existing route of Highway 18 between the South Yamhill River and the McMinnville Airport.

Land Use Issues

-

The Existing Highway Alternative has less adverse impacts to land use because it will force development into the existing urbanized areas and will tend to slow urban sprawl. Constructing a new bypass of the existing bypass highway will carve out essentially a new highway on high value farmland. Efforts to reduce adverse land use impacts through access control to the new highway (Alternative Bypass) may fail with time as future development pressure grows. The Bypass Alternative may be in conflict with the Transportation Planning Rule.

Socioeconomic Impacts

Both alternatives appear to affect approximately the same number of businesses and residential properties. The Existing Highway Alternative will have less socioeconomic impacts to businesses because this alternative will keep traffic in the same areas that it is in today. The Bypass alternative will direct traffic away from existing businesses.

Preliminary Geologic Map of the McMinnville and Dayton Quadrangles, Oregon, (Oregon Department of Geology and Mineral Industries Open File Report 0-81-6, 1981)

Biology

No substantial biological impacts are foreseen with either alternative. A check of the Oregon Natural Heritage Data Base lists two federally listed candidate species present in the general area. These are the Thin Leafed Peavine (Lalhyrus holchlorus) and the Oregon Giant Earthworm (Megascolides macelfresh). Neither of these species represent a problem to the development of the project. There may be some relatively minor biology issues with building a new bridge across the South Yamhill River which will be required with the Alternative Bypass.

Hazardous Materials

An abandoned gas station/automotive repair shop is present northeast of the East McMinnville Interchange and north of the frontage road. Right-of-Way required for the Existing Highway Alternative would involve a HazMat Level One investigation of this property. A level one analysis would define the nature and scope of potential hazardous material concerns and outline further investigative work required. No known hazardous materials impacts are present on the Bypass Alternative.

Historic Resources

A number of old farm houses are present in the corridor and it is likely that some of these will be impacted by either alternative. Any impacted old farm house will have to be researched to determine if significant historic resources are present. If they are, potential impacts are 4(f) issues.

Noise Impacts

Both alternatives will change traffic patterns. This may cause increased noise levels to residential properties. The Bypass Alternative probably has less noise impacts than the Existing Roadway Alternative because it will direct traffic into undeveloped areas. All impacted residences will have to be identified, impacts assessed, and mitigation (sound walls) provided if appropriate.

4(F) issues

Airport Park is close enough to the Existing Highway Alternative that it may be impacted by a frontage road. Should right-of-way be required from this park, a

4(f) document will be required. The use of Airport Park may also be impacted by increased noise levels or other indirect effects requiring a 4(f) document. A 4(f) document will also be required if any old farm houses in the project area are determined to be historic and are impacted by either alternative.

Water Quality

No major water quality issues are anticipated with either alternative. The South Yamhill River is designated by the DEQ as a water quality limited stream. Any construction activities near the river may require special construction provisions.

Wetlands

Wetland impacts will have to be determined for either alternative. The Alternative Bypass appears to have greater impacts to wetlands than the Existing Road Alternative because it traverses the lowland floodplain area adjacent to the Yamhill River. The law requires that wetlands must first be avoided. If they can not be avoided, impacts must be minimized and mitigated.

Floodplain issues

The Existing Roadway option stays out of the 100 year floodplain and the floodway. The Alternative Bypass crosses the 100 year floodplain and the floodway associated with the Yamhill River. Consideration will have to be given to impacts of the bypass alternative to flood storage and the floodway. However, simple floodplain/floodway crossings are seldom a difficult problem.

Glen Kirkpatrick Region Two Environmentalist 9/95 STATE OF OREGON Right of Way Phone:(503) 378-2644 INTEROFFICE MEMO

DATE:

October 6, 1995

TO:

John DeTar

Region 2 Planner

FROM:

Tom Martin

Region Liaison Agent

SUBJECT:

Three Mile Lane Corridor Right of Way Estimate

John, I have attached an estimate of the right of way costs for the acquisition of the various phases of the proposed corridor. I have used recent sales of properties comparable to the subject properties apparently affected by the proposed alignments. There may some slight duplications of costs within different phases; however, the exaggerations are not tremendous. A more specific breakdown can be made a later date. The parsonnel costs are based on the number of files per phase. The number of files was determined by comparing the maps provided by Dave Warrick of Preliminary Design to assessor plats. I don't believe the plats I have are current so there may be some error in that calculation. I used 15% for legal/contingencies which could be a little low.

If you desire more in-depth research, please advise. Feel free to contact me for additional clarification or information. I understand you will distribute copies of this estimate as needed.

Three Mile Lane Corridor Estimated Right-of-Way Costs

PHASE	RIGHT-OF-WAY	PERSONNEL	CONTINGENCIES
1A	102,000	22,400	19,900
1B	123,000	12,800	20,400
1C	352,500	27,000	56,900
1D	96,000	12,000	16,200
2D	25,200	7,500	4,900
2E	236,000	3,200	35,900
21	186,000	3,000	28,400
Subtotal	1,120,700	87,900	182,600
2A	120,200	3,200	18,500
2B	275,000	9,000	42,600
2C	201,000	18,000	32,900
2F	96,000	9,000	18,500
2G	214,000	12,800	34,000
2H	217,000	3,200	33,000
2J	43,800	22,000	9,900
*Subtotal	1,167,000	77,200	189,400
3A	810,200	22,500	12,500
3B	112,200	6,500	17,800
3C	134,000	7,500	21,200
3D	56,800	7,500	9,600
3E	16,800	6,000	3,300
Subtotal	1,130,000	50,000	64,400
Total	3,417,700	215,100	436,400

TOTAL COSTS = $4,069,200 \approx 4,100,000$

^{*} Note: Right-of-way for the interchange is included in the first grouping.

Rough Estimate Of Utility Impacts (In \$1,000s) THREE MILE LANE REFINEMENT STUDY Salmon River Highway

Phase 1	Power	TV	Tele.	Water	Sanitary Sewer	Gas	Total	Non-reimb	Reimbuse
Construct signalized					OC#CI				
intersection at location of					1 1				
future N-S Rd. intersection	8	2	20	10	2	7	49	37	12
Consolidate Evergreen and			- 20	- 10				- 37	12
Cirrus Dr. access to Armory	1 1				1 1			· .	
Way	10			4			14	4	10
Adjust southerly leg of Norton	 				-				10
Lane intersection to									
accommodate projected traffic	1 1								
needs	1 1								
Build new connection to					 				
southerly frontage road	1 1							1 1	
system from east Mac									
interchange									
Adjust southerly frontage	+				 			ļ	
roads between Lawson and									
									_
Norton (to maintain access)				3	 		3	<u> </u>	3
If storm sewer				33	 	50	83	50	33
Build northerly frontage road					1				
between Kingwood and the		_ [_	_				
new N-S arterial road	70	3		4	6		83	83	
Total Phase 1	88	5	20	54	8	57	232	174	58
Rd. to the new N-S arterial	175	10	1,000	10	14		1,209	1,209	
Build frontage road from	1-1101		1,000	10			1,209	1,209	···
Cruikshank Rd. to Cirrus Dr.	10	3	1				13	13	
Build frontage road from								-	
Armory Way to the new N-S		1				1			
	1 1	- 1	1						
				30			30		30
arterial	<u> </u>			30			30		30
arterial Build interchange to replace				30			30		30
arterial			2 000		35	50		50	
arterial Build interchange to replace signal at Hwy. 18/N-S arterial intersection			2,000	30	35	50	30 2,115	50	
arterial Build interchange to replace signal at Hwy. 18/N-S arterial intersection Close Norton Lane/Hwy. 18			2,000		35	50		50	
arterial Build interchange to replace signal at Hwy. 18/N-S arterial intersection Close Norton Lane/Hwy. 18 intersection and complete the			2,000		35	50		50	
arterial Build interchange to replace signal at Hwy. 18/N-S arterial intersection Close Norton Lane/Hwy. 18 intersection and complete the northerly frontage road to	135	20	2,000		35	50	2,115		
arterial Build interchange to replace signal at Hwy. 18/N-S arterial intersection Close Norton Lane/Hwy. 18 intersection and complete the northerly frontage road to Atlantic St. area	135	20		30			2,115 155	155	2,065
arterial Build interchange to replace signal at Hwy. 18/N-S arterial intersection Close Norton Lane/Hwy. 18 intersection and complete the northerly frontage road to Atlantic St. area	135	20	2,000		35 50	50	2,115		2,065
arterial Build interchange to replace signal at Hwy. 18/N-S arterial intersection Close Norton Lane/Hwy. 18 intersection and complete the northerly frontage road to Atlantic St. area If storm sewers Close the Armory Way	135	20		30			2,115 155	155	2,065
arterial Build interchange to replace signal at Hwy. 18/N-S arterial intersection Close Norton Lane/Hwy. 18 intersection and complete the northerly frontage road to Atlantic St. area If storm sewers Close the Armory Way intersection	135	20		30			2,115 155	155	2,065
arterial Build interchange to replace signal at Hwy. 18/N-S arterial intersection Close Norton Lane/Hwy. 18 intersection and complete the northerly frontage road to Atlantic St. area If storm sewers Close the Armory Way intersection Signalize intersection of Hwy.				30			2,115 155 265	155 65	2,065
arterial Build interchange to replace signal at Hwy. 18/N-S arterial intersection Close Norton Lane/Hwy. 18 intersection and complete the northerly frontage road to Atlantic St. area If storm sewers Close the Armory Way intersection Signalize intersection of Hwy. 18 Spur and Pacific St.	20	3	100	30 50	50	65	2,115 155 265	155 65 23	2,065
arterial Build interchange to replace signal at Hwy. 18/N-S arterial intersection Close Norton Lane/Hwy. 18 intersection and complete the northerly frontage road to Atlantic St. area If storm sewers Close the Armory Way intersection Signalize intersection of Hwy.				30			2,115 155 265	155 65	2,065
arterial Build interchange to replace signal at Hwy. 18/N-S arterial intersection Close Norton Lane/Hwy. 18 intersection and complete the northerly frontage road to Atlantic St. area If storm sewers Close the Armory Way intersection Signalize intersection of Hwy. 18 Spur and Pacific St. Total Phase 2	20	3	100	30 50	50	65	2,115 155 265	155 65 23	2,065
arterial Build interchange to replace signal at Hwy. 18/N-S arterial intersection Close Norton Lane/Hwy. 18 intersection and complete the northerly frontage road to Atlantic St. area If storm sewers Close the Armory Way intersection Signalize intersection of Hwy. 18 Spur and Pacific St. Total Phase 2	20	3	3,100	30 50	50	65 115	2,115 155 265 23 3,810	155 65 23 1,515	2,065
arterial Build interchange to replace signal at Hwy. 18/N-S arterial intersection Close Norton Lane/Hwy. 18 intersection and complete the northerly frontage road to Atlantic St. area If storm sewers Close the Armory Way intersection Signalize intersection of Hwy. 18 Spur and Pacific St. Total Phase 2 Phase 3 Rebuild east Mac interchange	20	3	100	30 50	50	65	2,115 155 265	155 65 23	2,065
Build interchange to replace signal at Hwy. 18/N-S arterial intersection Close Norton Lane/Hwy. 18 intersection and complete the northerly frontage road to Atlantic St. area If storm sewers Close the Armory Way intersection Signalize intersection of Hwy. 18 Spur and Pacific St. Total Phase 2 Phase 3 Rebuild east Mac interchange Construct frontage roads	20	3	3,100	30 50	50	65 115	2,115 155 265 23 3,810	155 65 23 1,515	2,065
Build interchange to replace signal at Hwy. 18/N-S arterial intersection Close Norton Lane/Hwy. 18 intersection and complete the northerly frontage road to Atlantic St. area If storm sewers Close the Armory Way intersection Signalize intersection of Hwy. 18 Spur and Pacific St. Total Phase 2 Phase 3 Rebuild east Mac interchange Construct frontage roads needed to continue access in	20	3	3,100	30 50	50	65 115	2,115 155 265 23 3,810	155 65 23 1,515	2,065
Build interchange to replace signal at Hwy. 18/N-S arterial intersection. Close Norton Lane/Hwy. 18 intersection and complete the northerly frontage road to Atlantic St. area If storm sewers. Close the Armory Way intersection. Signalize intersection of Hwy. 18 Spur and Pacific St. Total Phase 2 Phase 3 Rebuild east Mac interchange. Construct frontage roads in the immediate interchange.	20	3	3,100	30 50	50	65 115	2,115 155 265 23 3,810	155 65 23 1,515	2,065
Build interchange to replace signal at Hwy. 18/N-S arterial intersection Close Norton Lane/Hwy. 18 intersection and complete the northerly frontage road to Atlantic St. area If storm sewers Close the Armory Way intersection Signalize intersection of Hwy. 18 Spur and Pacific St. Total Phase 2 Phase 3 Rebuild east Mac interchange Construct frontage roads	20	3	3,100	30 50	50	65 115	2,115 155 265 23 3,810	155 65 23 1,515	2,065

Appendix E: Steering Committee Minutes

McMINNVILLE CORRIDOR REFINEMENT STUDY

STEERING COMMITTEE

December 8, 1994 1:00 - 3:00 p.m. Municipal Building Courtroom 230 East Second Street McMinnville, Oregon

ATTENDANCE

THE STREET STREET

-

-

-

-

-

-

-

-

Sec.

Bert Bar

Second.

Acres 1

ALC: UNK

ALC: UN

August A

 Martin Chroust-Masin, Yamhill County Planning
John deTar, ODOT Region 2
Dan Fricke, ODOT Region 2/Dst. 3
Rick Highsmith, City of McMinnville
Robert Hood, News-Register
Don Jordan, ODOT Region 2/Dst. 3
Doug Montgomery, City of McMinnville
Commissioner Debi Owens, Yamhill County
Councilor Robert Payne, McMinnville City Council

MWVCOG Staff

Richard Schmid, Chief Planner Wayne Rickert, Senior Planner Sean Loughran, Associate Planner Martha Kohley, Staff Assistant

The first meeting of the Steering Committee for the McMinville Corridor Refinement Study was called to order at 1:10 p.m. by Richard Schmid. Richard announced that he would be running the meeting and began by asking everyone to introduce themselves.

Following introductions, Richard explained that the Oregon Department of Transportation (ODOT) asked the Mid-Willamette Valley Council of Governments (COG) to put together an interagency process and study that all participants would be happy with. The findings and strategies developed during this study will be incorporated, as appropriate, into the City and County comprehensive plans. A consensus-based approach will be used; therefore, all parties will need to be in total agreement on the products that result from the study. Everyone was encouraged to feel free to discuss issues or make comments.

Wayne Rickert provided an overview of the products and scope of work. The overall purpose of the Study is to: 1) determine, through the year 2016, the best method to improve the corridor for the movement of people, goods and services using a variety of modes, and 2) how best to manage the corridor to balance its interaction with non-transportation issues.

The Study must meet the requirements of the Transportation Planning Rule, insure increased livability and decreased congestion, insure savings and efficiencies by identifying projects and right of way needs, and provide economic links and efficient movement.

There are three phases to corridor planning: 1) strategy; 2) development of a general plan; and 3) a system plan. A strategy develops transportation improvement and management objectives for the corridor. A general plan looks at the entire corridor and determines basic improvements that need to be made. It is a broad overview of the corridor. A system plan is more detailed and applies to areas in and around larger cities.

Wayne explained that the Study will have a little of each type combined into a detailed refinement study. The City of McMinnville has already completed a lot of work. Their work will be reviewed to see how it fits into the work being done by ODOT.

The Committee was shown a five-minute video which provided an aerial view of the 4.3 mile portion of Highway 18 being studied.

Wayne asked the Committee to review the Scope of Work on page 2 of the Information Packet. The Study covers a 22-year time period (2016). The Committee was asked to confirm that the identified study area and focus of the study included all areas of concern. The Committee agreed that the primary concern is the Three-Mile Lane area. The Committee agreed that the easterly end of the study be shifted west in order to avoid Lafayette Highway. The Committee asked that the Lafayette Highway intersection be studied in conjunction with areas further to the east.

Goals and objectives were reviewed. According to the Oregon Transportation Plan, the Corridor should operate at the Level of Service (LOS) "C" or better. In addition, a Category 2 access may be appropriate. This will have to be determined. These will have a significant impact on how the corridor is managed.

Public involvement will be sought through a series of informational workshops. Staff felt that public workshops are the best method to gather the community's issues and concerns. The Steering Committee was asked inform staff of specific groups that should be added to the workshop mailing list. The first workshop will identify community transportation issues, concerns, goals and objectives. The second and third public workshops will deal with preparation and evaluation of

McMinnville Corridor Refinement Study - Steering Committee Meeting Minutes, December 8, 1994

alternatives. This information will be presented to the Steering Committee before being presented to the public. The fourth public workshop will deal with the presentation of the final Study document.

Commissioner Debi Owens arrived at 1:31 p.m.

-

-

The Committee agreed that four open houses would assist in gathering information and comments. They also suggested the use of fliers and newsletters. Committee members agreed to forward information on to the city and county transportation advisory committees.

The first public workshop is scheduled for January 9th and will be held at the National Guard Armory building. Staff suggested that the Steering Committee plan to attend.

Staff explained that constraints on facility development deal with bordering land uses, comprehensive and zoning plan designations, environmental, social, economic and energy constraints. Staff stressed the importance of identifying problem areas early on.

Existing plans, policies, and standards will be reviewed and future land use scenarios will be developed.

An inventory of existing systems and facilities will be beneficial to see if there is any updated information that would be pertinent to the Study.

Each jurisdiction will have certain transportation needs that will need to be met by the corridor. These needs will have to be determined and they can best be accommodated.

McMinnville's transportation model (T Model 2) will be converted to the ODOT's modelling software (EMME 2) to allow transportation scenarios to be run. The status of this conversion will be provided at a later date.

System refinement planning will be an extensive part of the Study in which the Steering Committee will need to make some detailed recommendations.

After determining what is needed, implementation mechanisms will have to be developed. Funding sources will also have to be identified.

Richard Schmid reviewed the Cooperative Agreement with the Committee. It was COG's intention to make the Agreement as simple and understandable as possible. It stated what each party could expect to receive from the Study, what each party will be expected to provide and that all parties will agree to cooperate. Richard stated that the agreement was being provided at that time to allow everyone an opportunity for review and make proposed changes.

Richard asked if there were any questions or concerns regarding the Agreement. Since there were none, the Steering Committee was asked to forward the Agreement to their individual jurisdictions for approval.

The Committee adjourned for a break at 2:00 p.m. and reconvened at 2:15 p.m.

Wayne Rickert and Sean Loughran led the Committee through information related to "Background/Status". The discussion included findings of information gathered by reviewing many existing plans. Data compiled through traffic counts included average daily traffic (ADT), progression, and accident locations. The numbers show an annual increase. Some counts were affected by the traffic relocation during construction. Population estimates (prepared by PSU in September 1994) and historical growth rates for the City of McMinnville illustrated a 30% per decade increase that staff felt was reliable enough to be used to check the planning factor in the McMinnville Transportation Master Plan. Charts shown on pages 16 and 17 of the Information Packet showed commuting patterns into and away from McMinnville. This information was obtained from 1990 Census data.

Staff asked the Committee if they felt more aggressive growth should be considered for the corridor.

Mr. Highsmith stated it was probably O.K., but he had some concerns with PSU's projections, which appeared to be low. Growth might occur sooner than predicted.

Sean Loughran provided information on zoning and land use in the Study area. Land use analysis considers potential land use changes in the corridor and how those changes could impact the facility. Adjacent property functions also have to be studied. Most of the land surrounding the facility is zoned for agricultural or industrial uses. The amount of existing farmland will limit development.

Sean referred to the map on page 19 of the Information Packet. The map illustrated how zoning in the area might appear at buildout. Staff stated that they are aware that the City of McMinnville would like to encourage aviation-related businesses and that they discouraged commercial strip development in the Study area.

Mr. Highsmith said he would share information with COG staff regarding plans for a museum in the area that allows for access from an intersection.

Mr. deTar suggested inviting the Department of Land Conservation and Development (DLCD) to a future meeting.

Wayne Rickert explained that the map on page 20 showed major property owners in the Study area. They will be added to the open house mailing list.

McMinnville Corridor Refinement Study - Steering Committee Meeting Minutes, December 8, 1994

Mr. Highsmith felt it would be beneficial to make individual contact with each of the major property owners along the corridor.

-

~

ALC: N

ALC: N

and the

Section 1

Service .

هست

The Committee discussed other groups and businesses that should be included in the study effort and added to the mailing list.

The Committee agreed that people would respond to advertisements and mailers announcing the public open house. COG staff will obtain copies of fliers and newsletters used previously by the City of McMinnville and Yamhill County.

Other issues identified were safety, through traffic, farm and other accesses, other modes of transportation and frontage roads.

Mr. Highsmith stated that currently the highway functions well and has potential for increased capacity. The biggest problem will be getting through the transition period and interim solutions are needed soon.

Staff stated that these problems can be discussed after alternative solution designs are obtained from CH2M Hill and Kittleson. Many things will be worked out as the study process progresses.

It was agreed that the next Steering Committee meeting would be held on January 19th at the same time and location.

There being no further business, the meeting adjourned at 3:10 p.m.

MINUTES

MCMINNVILLE CORRIDOR REFINEMENT STUDY

January 19, 1995 1:00 p.m.

Municipal Building Courtroom 230 East Second Street, McMinnville, Oregon

ATTENDANCE:

Councilor Robert Payne, Bill Gille, Commissioner Dennis Goecks, John deTar, Dan Fricke, Don Jordan, Martin Chroust-Masin, Doug Montgomery, Robert Hood, Richard Hays, Wayne Rickert, Sean Loughran, Martha Kohley.

-

and the

-

1

-

فتحست

-

-

Carried Street

CHAPTER ST

CALL TO ORDER: The meeting was called to order at 1:07 p.m. Everyone was asked to introduce themselves. Attendance was noted as listed above.

SUMMARY OF OPENHOUSE

Wayne Rickert thanked City, County and ODOT staff for their assistance with the Public Open House held on January 9th at the Armory. The Open House was well attended and many comments received. Wayne provided a summary of the comments to the committee. Committee members briefly discussed some of the issues raised.

Commissioner Goecks stated that farmers in the area still want to be able to access their land. There is a need to put a plan in place quickly to prevent the installation of multiple stoplights which would inhibit the flow of traffic. He emphasized that the facility was built as a bypass. He stated that multiple transportation studies are being conducted by a mix of jurisdictions and asked if there is a mechanism in place to insure that studies and projects do not work against each other. Staff emphasized that there has purposely been an overlap of staff and consultants working on the various studies for the purpose of insuring consistency as well as cost effectiveness.

LAND USE

Sean Loughran briefed the committee on the land use scenarios proposed as a basis for transportation facility alternatives. DLCD representatives had voiced their desire for one of the scenarios to depict what will happen to traffic if the City of McMinnville maintains its current Urban Growth Boundary (UGB). One land use proposal illustrated this scenario while another is based on an expanded UGB. Sean explained the assumptions and rational for the projected, long-range changes to current land uses. For example, staff found that Olde Stone Village is hoping to

expand its operation into a small, adjoining parcel zoned for light industrial use. Another example is using input that a large area along Norton is being considered for development as residential property. Both scenarios therefore show the land as being used for multi-family residential.

Sean stated that Rick Highsmith, McMinnville Planning Director, feels that the City of McMinnville's existing need for commercial land will provide enough justification for expanding the UGB the next time the City's Comprehensive Plan is updated.

The Committee discussed the land use scenario in detail, included changes to projected land uses. Major points of consensus were:

- Study two future land use options. The first option would focus on build-out under the existing comprehensive plan designations. The second option would use an UBG expanded to the natural flood plain barrier to the south and including Evergreen property to the north. This was viewed as the most realistic option. Even if the UGB is not expanded during this 20-year planning cycle, the Committee felt that transportation alternatives which lent themselves to phasing would form a master plan in the future.
- A strong commitment for the road to remain as a highway for speedy travel. Avoid situations leading to congestion and delays. Limitedaccess may be necessary. Make good efforts to continue access to adjacent property is desired.
- The McMinnville City Council needs to concur in the land use scenario since the scenario anticipates a major change in future land use designations (industrial/commercial) in the Evergreen property, north of the airfield. Their concurrence will alleviate the Committee's speculation and allow a cost effective solution. Staff will forward a letter to Councilor Bob Payne which will address the issues associated with the proposed land use designation changes. Mr. Payne will query the City Council.
- It is important to develop a plan now so necessary right-of-way can be obtained while land values are still relatively low.

Following the Committee's decision on land use scenarios, there was a brief discussion on potential transportation alternatives. The consultant, Kittleson and Associates, will be asked to model two transportation alternatives to enable the Committee and staff to study their impacts.

3. MODEL DEVELOPMENT

Wayne Rickert provided an update on the status of converting the McMinnville traffic model from its present form to the State standard. He also discussed the coordination of calibration timelines between the technical staff and the consultant.

There being no further business, the meeting adjourned at 3:07 p.m.

MINUTES

MCMINNVILLE CORRIDOR REFINEMENT STUDY

July 13, 1995 1:00 p.m.

Municipal Building Courtroom 230 East Second Street, McMinnville, Oregon

ATTENDANCE

Steering Committee:

John deTar, ODOT Region 2 Commissioner Dennis Goecks, Yamhill County Rick Highsmith, McMinnville Planning Department Don Jordan, ODOT - District 3 Councilor Robert Payne, McMinnville City Council

Others:

المسمود المسمود

المنصور المنصور

التسيي

والمحمد

-

المسين

المسمود المسمود Martin Chroust-Masin, Yamhill County Planning Department Ken Early, YCAP Dan Fricke, ODOT Region 2, District 3 Martha Kohley, MWVCOG Hisham Noeimi, J.R.H. Transportation Engineering Kim Poore, Mgr., Old Stone Village Tim Poore, Mrg., Old Stone Village Wayne Rickert, MWVCOG Richard Schmid, MWVCOG Mike Unger, MWVCOG

CALL TO ORDER

The meeting was called to order at 1:05 p.m. Everyone was asked to introduce themselves. Attendance was noted as listed above.

OPEN HOUSE RESULTS

Wayne Rickert reported that the information received from the June 19th Open House questionnaires and personal discussions with participants provided valuable information for further development of the road system. Most participants favored the frontage road option with the remainder almost equally divided between the alternate bypass or no changes at all. Some good suggestions were received for modifying the system.

Commissioner Goecks commented that, in many cases, a open house will attract people that are directly affected by the particular issue. You have to take into consideration the source of the information you have received. You also need to determine what purpose you wanted the survey to serve.

Wayne stated that the survey provided staff with a good idea on how the public perceives the project and it gave the public the opportunity to provide specific comments and share their ideas. The comments introduced items that had not been considered by staff and needed investigation or further discussion.

4. FINALIZE TRANSPORTATION ALTERNATIVES

Wayne Rickert explained that at the last Steering Committee meeting there was strong consensus that the frontage road alternative was best, but we should present both alternatives to the public at an open house for feedback. Since that time, staff has found further information on the alternatives. For instance, the Cruickshank curve as shown on the conceptual plan is not outside the airport runway safety zone. It would need to be moved approximately 100 feet northeast to avoid problems. The frontage would be close to the fuel storage site.

These types of issues may require another meeting of the TAC to resolve these problems if possible. However, staff would like the Steering Committee to determine which alternative they would like staff to pursue.

Rick Highsmith reported that John deTar, Wayne Rickert, Bill Gille and he met with Evergreen International representatives on July 12th. They were not in favor of the southern frontage road alternative. Mr. Del Smith recognized that to fully use his property, improvements will have to be made to the system. He would like to keep the options open. The overall feeling was that even though Evergreen representatives were not pleased at the options presented at the June 19 Open House, they want to be cooperative and coordinate with staff on the project. Rick indicated that the Evergreen area will have to receive close study and consideration during the refinement stage of the plan. Commissioner Goecks agreed.

Wayne Rickert reminded the committee that the study is an overall, long-range plan, not a project level plan. Therefore, specific suggestions or concerns can be addressed once the study reaches the project level planning phase. Wayne sited a frontage road and a north/south arterial as examples of those of those types of issues. He added that one risk associated with this approach is that it does not allow for setting land aside.

Commissioner Goecks stated that the committee needed to move ahead. Motion was made by Commissioner Goecks and seconded by Rick Highsmith to accept the frontage road concept with the understanding that there will be details to be worked out in the future.

The floor was opened for discussion.

4

هسه

-

Richard Schmid stated that focus is not solely on the concept, but what the ultimate goal is for the plan. He perceived the goal to be the development of a plan that the county, city and state can adopt. Most of the concerns have been identified on the east end of the study area. He felt that those concerns could be resolved by the TAC meeting and staff following up with the recommendations made by the TAC.

John deTar stated that staff will need to move forward with an identification of environmental impacts and schedule time for analysis of those impacts. It would be important to include someone with the knowledge of federal NEPA requirements and the ability to identify issues and project level problems, such as, neighborhood impacts, sound walls, archeological sites, etc. He could not recall any issues being identified in the past as potential problems.

The committee agreed that the aesthetics of the design should be a strong consideration and this could also be discussed at the TAC meeting.

Commissioner Goecks stressed the importance of allowing the property owners a controlling interest in how quickly the plan will be implemented. The property owners must realize that the plan will allows flexibility and will take their personal plans into consideration.

Rick Highsmith added that it will eventually benefit major property owners to have a plan in place.

Richard Schmid reminded the committee that the cost estimates did not include the purchase of right-of-way. The estimates provided at the last Steering Committee meeting were only for construction costs. Roughly, an additional \$4 million should be added for right-of-way. Wayne Rickert stated that approximately the same amount of right-of-way is necessary for both options, so estimates provide relative costs.

Richard added that even if major land owners do not have plans to develop in the near future, when they do develop there will be a plan and, therefore, no surprises. Currently, there are not many options for further development of a road system. If there is further delay, the situation will only get worse. He stated that while writing a plan of alternatives staff has identified the pros and cons for each alternative. Richard invited the committee to add to the rationale for selecting the frontage road concept.

The discussion concluded. Those voting in favor of the motion were: John deTar, Commissioner Dennis Goecks, Rick Highsmith, Don Jordan, and Councilor Robert Payne. The motion carried unanimously.

Commissioner Goecks encouraged staff to move ahead with the study and strive to create as little disruption as possible. The bypass alternative expanded the area to be impacted, which could broaden the possibility of encountering environmental impacts.

Wayne Rickert asked the members of the TAC to remain after the meeting to schedule a meeting.

John deTar asked if everyone was satisfied with what had been done regarding park and ride issues. Two potential locations have been identified for the study area.

Wayne Rickert stated that the park and ride locations are a good use of land that otherwise would not be used. They would serve commuters more than local users.

Committee members verified that neither the city or county have done much planning for Transportation Demand Management (TDM). Richard Schmid stated that as the county and city define their own TDM strategies, they might want to include the park and ride lots in their land uses. He asked if there were any comments regarding potential pedestrian over-crossings.

Wayne Rickert reported that open house comments did not reflect either a like or dislike for them, although one individual was surprised that a pedestrian overcrossing would require a lot of room.

DISCUSSION OF IMPLEMENTATION PROCESS/PROCEDURES/ACTIONS AND TIMING

Wayne Rickert began the discussion by asking the committee how the project would be funded. Staff felt the general concept was that the frontage roads would be the city's responsibility and Highway 18 and its intersections would be the state's responsibility. He asked for comments and other thoughts.

Don Jordan stated that the funds are limited and the state will be looking at the city and the county for joint ventures to implement the project.

Richard Schmid agreed that there will have to be a cooperative effort and explained that there is a difference between paying for a facility and accepting responsibility for it after it is built. The frontage roads will be the city's responsibility and will be built as land is developed. The highway will be the state's ownership and responsibility. The interchanges and a certain amount of land around them will also belong to the state. Staff requested that the committee concede to agreement or disagreement of this arrangement.

Reference was made by Commissioner Goecks to Item B.1., listed under Item I., Responsibilities, in the discussion paper on Implementation included in the agenda packet. Commissioner Goecks felt strongly that frontage roads should become city responsibility. He suggested that there be an agreement between the city and the county which would state that once a specific area becomes part of the city, the city would take responsibility for it thereafter.

Rick Highsmith agreed with Commissioner Goecks.

-

-

-

ALC: UNK

-

-Sec. 12

-

Following a brief discussion on urban growth boundary expansion and urban reserve, the committee recessed for a 10-minute break.

The meeting reconvened at 2: 08 p.m. Richard Schmid began the discussion by emphasizing the importance of establishing a plan and develop a method to reserve the land needed to follow through with the plan. He suggested the possibility of forming an urban renewal district. The development of an urban renewal plan would focus on improvements. A portion of the money from urban renewal could be used to leverage interchanges by providing funds for local match which would encourage the state to participate. This method provides flexibility and does not cost the property owners any more than normal. The use of system development charges or local improvement districts could also be considered. A combination of system development charges and an urban renewal district could be used to fund improvements.

Don Jordan explained that ODOT looks closely at the amount of local contribution, the existence of an implementation plan, as well as, provisions for maintenance of a facility once it is built.

John deTar stated that there is no doubt that the city will have to pay for a lot of the project.

Rick Highsmith stated that he believes that the city will agree to finance portions of the facility, but will not use general funds to do so. He added that he did not think that the City of McMinnville would be supportive of an urban renewal district. He felt funding through developer costs would be more likely. He did not think that the McMinnville City Council would support bonds, taxes or urban renewal.

Councilor Payne stated that he did not think the city would support a bond measure anytime in the near future or approve the use of general funds for this project. He said he wasn't able to comment on an urban renewal district.

Rick Highsmith stated that the main problem is that the public does not think that the facility is necessary. The problem does not look bad enough for the taxpayers to be supportive.

Richard Schmid commented that funding is totally a local decision.

Rick Highsmith explained that once the jurisdictional issues are resolved, the city will decide how the financing will be done. Due to the large parcel size, he did not think there will be a piecemeal or connectivity problem with development. Most of the vacant land consists of large parcels owned by very few individuals. There are not many small parcels. He anticipates that the facility will be funded by its developers.

The committee discussed a south frontage road. In response to a question on whether the south frontage road would define the UGB, Rick Highsmith explained the UGB will be delineated by flood plains.

The committee discussed urban renewal districts and how they work. Mike Unger reiterated that urban renewal districts provide flexibility and financing alternatives.

Richard Schmid discussed Item 3., Timing of Actions. The plan will have time frames for the implementation of different phases. He asked If traffic volumes increased to a certain point at a critical intersection before funding would be available for the next phase, how did the committee think this should be dealt with.

Rick Highsmith stated he would like to have time frames taken out of the plan and phased implementation be based on traffic volumes.

Wayne Rickert explained that time frames are necessary to coordinate state actions with the State Transportation Improvement Plan (STIP). The STIP is based on time frames to build specific projects.

Commissioner Goecks suggested that the committee begin Phase I to ensure that it is done before it is too late. Staff reviewed Phase I with the committee and confirmed that it would be necessary for Phase I to be included in the STIP.

Following further discussion, Commissioner Goecks suggested redefining the phases, especially Phase I. John deTar recommended consideration of an intergovernmental agreement with ODOT, relying on phases in the plan being implementation before allowing additional accesses.

Rick Highsmith stated that an intergovernmental agreement sounded like a good option but it would have to be thoroughly investigated. It might allow the city more clout to complete dedications, etc.

Commissioner Goecks stated that he wasn't sure about that kind of approach, but it might be the only option. Everyone will have the look for ways to actively work through this problem.

NEXT STEPS

1111111111111111

-

هب هب

-

Wayne Rickert said that staff will continue to work on the draft plan and meet with the TAC to finalize several issues. Information will be forwarded to the Steering Committee for consideration. Wayne confirmed that the committee was scheduled to meet again on August 17 the review the draft plan. The TAC will meet prior to that date.

Discussion followed regarding the best process to review the draft plan and conduct a public hearing. Commissioner Goecks suggested that the Steering Committee conduct a public hearing to solicit public input. Following that meeting, conduct a joint public hearing with both the Yamhill County Board of Commissioners and the McMinnville City Council to adopt the plan. The committee favored Commissioner Goeck's suggested process. Staff will continue to keep Evergreen representatives informed of the process.

Richard Schmid pointed out that August 17 might be too soon to conduct a combined meeting. September might be a better time to obtain better attendance.

ADJOURNMENT

There being no further business, the meeting adjourned at 3:14 p.m.

Appendix F: Summary of Public Open Houses and Public Comment

Summary of Public Open House #1

Attendance

- Forty-nine in attendance; does not including steering committee.
- Estimate two-thirds arrived between 3:15 p.m. and 3:40 p.m.

Survey Results

Twenty-eight surveys were completed. (Includes five from flyers.)

Questions and Results (Note: Some questions could have more than one answer.)

1.	How did you find out about the open house? a. Received flyer in mail
2.	Was the time convenient for you? 20 a. Yes
3.	Typical Use of the Corridor a. To visit/shop/work at places within the study area
4.	What service do you want the road to provide? a. Primarily to outside the study area (through)

Comments

There are no provisions in this Transportation Study for passenger train service on existing rail lines.

We own farm land in the study area and cannot afford to lose any to further road

We already have a problem with litter and crime along Loop Road because it is gravel and unsupervised. Can the county and city provide service to the road if area use increases? Pavement, Sheriff, etc.

- I don't want to see more land taken up for road use.
- 18 & Lafayette should have stop lights too many accidents. If 4 lane we need frontage.
- Lafavette 18 intersection needs attention very badly.

NOTE: The following comments were from the survey portion of the flyer.

Biggest problem: Going east on three mile lane left turn to access road & Pacific St very dangerous.

Dangerous/congested: Three mile lane and Pacific St. (Mrs Gene Hansen - Pacific Street)

- Biggest problem: To get to my property and the east part of McMinnville, starting at a point of reference from Hwy 99 to Hwy 18 going East, I have to go all the way to the signal light, and then cross over Hwy 18, then turn left, going West, on an access road to get to my property on Atlantic & Tillbery. (Victor & Dorothy Brown - Amity)
- Biggest problem: We need a direct entrance to the highway and off. We have to go out of our way to come into town. (James Milk - Lawson Lane)
- Biggest problem: Poor lighting and pedestrian safety along the sides of the highway. Sidewalks and curbs should take the place of the ditches along the highway strip within city limits. Lights on both sides of the highway, and brighter ones would improve drivers' vision within our city to see where they (are) guiding their cars.

Dangerous/Congested: Exits off the highway and entrances onto the highway. Signal lights need (to be) installed to breakup the constant traffic flow. (Ron & Janet Nalley - Kingwood Court)

"Road of the Future" Choices

The statements under A.1.a and A.2.a below were not intended as choices, but were to explain what might occur under A.1 and A.2. However, the selections do offer an insight into the public's opinions/preferences, and are therefore included.

A.	Wh	Move people to/around McMinnville 3 a. This Means: i. Few direct accesses 4 ii. Uses more property to build: (a) Frontage Roads 10 (b) Separated Grade Inter 2 iii. Few Traffic Lights 1 iv. Limits ability 0 v. Less congestion 0 vi. Faster movement 2
		mom . T
		TOTAL
	2.	Serve as primary means of land access
		i. More direct access
		TOTAL
В.	Wh	at means would you usethink others use to travel?
	1.	Bus Service a. Local
	2.	Park & Ride a. Car Pool
	3.	Bike/Walk a. Sidewalks

F-2 Appendix F

	4.	None of these
C.	Wh	nat should the road look like?
	1.	Basic and functional (like now)
	2.	Bordered by development 0
	3. 1	Landscaped Entrance to City
D.	Wo	ould you like to see a north-south road connecting 99W & 18?
	1.	No
	2.	If Yes, Where? 11 a. Norton Lane 11 b. Near Armory Way 1 c. Extend Loop/Reid 2 d. Expand Lafayette 3 e. Other - draw on map 0
		d. Expand Lafayette

"Write/Draw On Map" Notes

- At intersection with Lafayette Hwy Several accidents over the years. North-South traffic rushes (hard to get out) to get onto/or across 18.
- Underpass to accommodate Loop Road and Wallace (Cruickshank?) Road traffic.
- Intersection of 18 & Cruickshank Need signal. Hard to get onto 18 in mornings (eastbound) center lane is used by cars on Cruickshank and Loop.
- Use shared parking lot for Bus/Park and Ride. Commuter Express to Salem.
 Prefer to connect to Cherriots outside Salem (YCAP).
- Bus Stops at Airport, Old Stone Village, and Tanger. (YCAP)
- Old Stone Village owner want to purchase industrial land bordering and convert to trailer/RV.
- If development (commercial) occurs, will airport become a controlled airfield?
 (Impression is the speaker wants it controlled).
- Lots of people speed through (miss) stop sign out of McDonalds trying to make light on Highway.

- YCAP would like to make hourly bus runs to hospital. Were hospital entrances, etc. designed to handle bus/vans (overhangs)?
- Twelve acre parcel west of hospital should be commercial.
- Suggestion to expand UGB/city limits to edge of flood plain roughly parallel to river from interchange (Lawson Lane) down to southwest corner of large block of industrial land.
- Don't take my house. (End of Martin Lane)
- Want direct access from ramp to frontage road (Lawson/Martin Lane) vicinity.
- Third and Johnson Streets need work.

-

کسو

~

- Bridge needs widening. Pedestrians can't use. Widen from bridge to interchange for parking. Left turn lane to access Pacific or Nettemiah (going south) is needed. Ditto. Ditto. People turn left now.
- Line drawn from Norton to the north with words; Belt Line Road.
- Area between Lawson and Trailer Park believe this will go high density residential.
- · The attached map contains notes which, in some instances, duplicate those above.

Summary of Public Open House #2

Attendance

Fifty-eight in attendance; does not including steering committee.

Survey Results

• Thirty-five surveys were completed. (Includes two after the open house.)

Questions and Results (Note: Not all surveys had every question completed.)

1. Which transportation alternative did you prefer?

a.	rrontage	Road	1.	*	*	٠				*					٠				16
b.	Alternate	Byp	ass																10
c.	Neither																		9

2. Both alternatives have an optional frontage road location shown north of the airport and Three Mile Lane. Which location do you feel best serves future needs?

a.	The one	closest	to Three	M	ile	La	ne							1	9
b.	The one	furthest	north .												7
c.	Both .		<i></i> .												0
Nor	ne (An ad	lded in r	response)									 ,			3

3. The frontage road alternative also has an optional frontage road location south of Three Mile Lane. Which location do you feel best serves future needs?

	The																					
ο.	The	one	furtl	nest	S	ou	th	l		٠			٠									8
2.	Both								٠							+						0
Nor	ne					,													+			3

4. Under the Frontage Road alternative, the north-south arterial needs to cross Three Mile Lane at the interchange east of Kingwood; however, from there it could go west to Norton and then north, or it could go northerly without connecting back to Norton. Do you feel Norton should be used?

a.	res, g	o wes	st to	ľ	٩O	п	O1	ı,	С	O)	ш	ıe	ct	ın	ιg	\mathbf{n}	0	u	3 (01	٠.	l a	ın	ge	r,	,				
	then a	long l	Vort	or	1										Ϊ,							.,								1
b.	No, pr	roceed	no	rtl	ne.	rl	y	aı	nd	l	do	n	't	W	0	m	У	a	bo	วน	t	c	on	n	ec	ti	n	2		
	to Nor																													1
c.	Other																													
	ne																													
Bot	h					_											•													

Comments:

- You should not ruin the campus of one of your largest businesses.
- Evergreen should not once again be the victim of your planning as relates to land loss/use.
- Needs more discussion.
- Good Luck

- All of my comments are contingent upon what happens to the urban growth boundary and the zoning changes, particularly farmland.
- Try not to use anymore farmland why not double deck the existing 18.
- Alternate bypass is lesser of two evils.
- The alternate bypass is a cleaner, less confusing solution. It moves Hwy. 18 away from the McMinnville East Entrance.
- Instead of all this, why not make the existing road wider, and save a lot of money.
- Question #2 whichever is cheaper.
- Question #1 Frontage road if something has to happen. Would like it if neither were necessary.
- Question #3 Frontage Road furthest south if its behind the hospital.
- Stop sign at McDonalds on Norton Lane. Accidents will happen. Too many close calls for me already when turning left onto frontage road in front of cars at stop sign. They start to go as I start my turn. The access is bad !!
- Looks like a huge waste of money. Wait until something is really needed.

Technical Comments Made to the Staff Manning Stations

Land Use

- If right-of-way is obtained for the work in an area assumed to become, for example, residential but is being used for agricultural; will the property owner be compensated for residential or agricultural land.
- The Evergreen property will never be developed except for maybe the Air Museum over by Cruickshank.

Frontage Road Alternative

- After the various accesses onto 18 are closed, you should get rid of the curves which were placed to allow queuing, and instead run the frontage roads directly parallel to 18. e.g. Norton, Armory
- Can't you just widen the road at intersections allowing a long acceleration lane?
- Can't you take up less room for the southern roads on the new interchange in phase three?
- How can we get up signs to direct travelers to our place when you cut off access from 18? The city (state) is very strict on what they allow? (current rules perceived as inadequate)
- I want to increase the RV spaces from 28 to 78 (if I buy the land, the city likes RVs in the area over mobile homes, because RVs are easier to move if air traffic picks up). But RV businesses need better and more direct access off the highway than regular businesses because they are difficult to maneuver.
 - Ought to grandfather existing accesses.
 - Prefer alternate bypass to south of highway (Note: Need to count this in survey of preferred alternatives)
 - Don't see need for frontage road along northern part of Evergreen property just for Olde Stone. Let Olde Stone go east to Loop and leave Loop as a direct access onto the highway. Evergreen, if they develop, could just connect their property to the north-south arterial and use interchange.
 - Loop and Cruickshank should be "t'd" across from one another.

- Three direct accesses onto 18 should be OK
- Use existing right-of-way to construct frontage road on south side of highway. Acquire right-of-way only for north side for road widening and frontage road. Would result in less impact to existing Evergreen facilities and less right-of-way would be necessary (DF)
- The people living on Lawson and Martin Lane will have to go further out of direction to get to Highway 18 or going into town via the Spur (after Phase 2 is done)

General

- Bike Travel on 18 Spur is very hazardous. The S. Yamhill River Bridge is not wide enough to provide an adequate shoulder bikeway. The sidewalks(on the bridge) are very narrow and unsafe for pedestrians as well. What plans are being developed to improve this part of the system?
- Where will the N-S Arterial Road connect to Highway 99W?
- Where is the project physically located with respect to the possible toll road to bypass Newberg and Dundee? Will this highway connect to it somehow?
- Who is going to pay for all these improvements? Specifically, what part is ODOT paying for?
- Concerns over revising access pattern to airport & impacts to north end of instrument runway.

June 23, 1995

Mid-Willamette Valley Council of Governments 105 High Street S.E. Salem, Oregon 97301

Attn: Wayne L. Rickert, Jr. Senior Planner

RE: McMinnville Corridor Refinement Study

Dear Wayne;

~

-

-

It was a pleasure discussing with you on the phone earlier in the week as to the design concept for the McMinnville Three Mile Lane Corridor. As I mentioned on the phone, I am viewing the alternatives for their cosmetic and functional duties. The cost comparison I have left for you.

The frontage road alternative will leave the area with nine to eleven lanes (including turning lanes) of concrete that I fear will give me the feeling that I am traveling down the Santa Ana Freeway rather than the countryside of McMinnville. Median strips of landscaping between the roads of twenty to thirty feet to soften the look will leave the City of McMinnville with a large monthly maintenance bill to water, feed, mow, and tree trimming. I understand the frontage road alternative is preferred because of the ability to phase in the cost. Also, the city of McMinnville would pick-up the tab rather than the state. However, I feel the alternate bypass is the best proposal. The project could be phased in by making the alternate bypass a two lane highway and later as a four lane highway. There would be no access to the bypass. The alternate bypass would become the urban growth boundary of McMinnville thus opening up a large amount of acreage for future development and system development charges that would have access off the existing Highway 18. The existing Highway 18 with full access would remain the same.

The frontage road alternative gives limited access to service oriented stores (i.e. Tanger Mall) for Portland/Coast traffic and would slow down the response time to the new hospital. The frontage road from the proposed new north/south arterial to Loop Road requires all traffic from Loop Road that wishes to travel east or go to Salem to travel west about 1 mile before reversing. This would increase west bound traffic flowing in front of Olde Stone Village that is unnecessary. The frontage road would take approximately 100 feet of land on the north side of Highway 18 leaving the remaining land between the frontage road and Olde Stone Village of little development value. The City of McMinnville will possibly have to purchase the land since with set-back requirements the remaining land may not be deep enough for the owner to fully develop. Also, the frontage road alternative would eliminate direct access to Highway 18 for Olde Stone Village that is critical for RV (overnight) business.

I feel the frontage road from the Highway 18 interchange to Loop Road is unnecessary and detrimental to Olde Stone Village Mobile Home and RV Park. Since the parcel of land between Olde Stone and the interchange is currently owned by one party, the road is a waste of taxpayers' money to service Loop Road, Olde Stone, and Pacific RV Center. When Evergreen decides to

develop the parcel, a master plan would be required by the city for access off the interchange rather than a frontage road. The money saved by eliminating the frontage road could be used to realign Cruikshank Road and Loop Road as the north/south arterial. An underpass with exit and an on-ramp system at this interchange would better serve Loop Road and Olde Stone Village. This interchange would be a better location for the north/south arterial because Cruikshank Road is used to travel to Salem and this could become the easterly boundary of the urban growth boundary of McMinnville. The right-of-way land to purchase at this location would most likely be less costly than at the proposed location. An underpass is possible with proper engineering as one is currently in existence further east on Highway 18 at Dayton. An underpass would not affect the airport clearance and would allow traffic from Salem to go east or west on Highway 18 plus allow them to continue to the north part of McMinnville via improved Loop Road.

The alternate bypass allows direct access to Tanger Mall, the new Hospital and other existing commercial enterprises via the current Highway 18. Olde Stone's preferred access would be to remain status quo (grandfathered) as it is outside of any major congestion. There is currently direct access on Highway 99 (outside of areas of major congestion) for some residential and commercial properties between Highway 18 and Sherwood. Olde Stone, however, could live with the alternative of the realignment of Loop Road and Cruikshank provided there was direct access to Highway 18 at that location. There would still need to be a short road to serve Olde Stone and Pacific RV through the land owned by the City of McMinnville.

Visible signs will be a major problem with all the alternatives. Large enough signs would have to be allowed for a motorist going 55 MPH to read from a distance. I question whether McMinnville will allow signs for businesses the size of signs on Interstate 5 on Highway 18. One alternative as we discussed on the phone would be to leave the entire length of Three Mile Lane to Loop Road as it exists and have the alternate bypass start east of Loop Road connecting to Highway 18 with an underpass and the bypass running behind the airport.

As I mentioned on the phone, when I design something I try to create the most attractive and functional project possible. I do not take cost into consideration. I take the position that if I cannot have an attractive project I would rather not do it at all. I realize that you do not have that luxury but I feel that if you take into consideration some of Olde Stone's concerns, the end result could be a transportation plan that will be business friendly, attractive, and still solve the area's transportation problems.

In closing, thank you for the time you gave me on the phone. Later this summer when I am in town I would like to meet you in Salem.

Sincerely,

Paul Brewer

Owner of Olde Stone Village Mobile Home and RV Park

P.O. Box 6956

Laguna Niguel, CA 92607

January 24, 1996

VIA FACSIMILE (503) 588-6094 AND FIRST CLASS MAIL

Mid-Willamette Valley Council of Governments 105 High Street S.E. Salem, Oregon 97301

Attn: Wayne L. Rickert, Jr.

Senior Planner

RE: McMinnville Corridor Refinement Study

Dear Wayne;

Thank you for sending me the draft of the Corridor Refinement Study. Having quickly reviewed the proposed designed for access to and from Highway 18 for Olde Stone Village, I want to state for the record that I am completely opposed to the draft design. The reasons for my opposition have been stated in my letter to you dated June 23, 1995 and in the numerous telephone conversations we have had. A viable alternative to the draft design would be a frontage road with access to Highway 18 at Loop Road. I would be happy to work with you to effectuate a design for such a frontage road.

As designed, the proposed access will destroy the overnight recreation vehicle (RV) business at Olde Stone Village. Olde Stone currently has a recorded permit for access to Highway 18 and the loss of that access will cost Olde Stone thousands of dollars of income annually. I estimate the loss of direct access to Highway 18 would also reduce the value of Olde Stone Village by more than \$1,500,000. In ten years that value loss could exceed \$2,000,000. Accordingly, I cannot concede or in any way allow the loss of Olde Stone Village's direct access to Highway 18 without compensation from the state for the loss of revenue and profitability.

Please also note that your draft design will cause excess traffic and gasoline consumption for travelers from Olde Stone Village using Highway 18. However a frontage road as I have proposed would allow adequate access to and from Highway 18 without undue waste of time or gasoline. One point I have not made until this time, but which is of no less importance, is that a traveler moving eastbound from Olde Stone Village would have to travel westbound before resuming an eastbound direction.

Once again I would like to work with you and your department in drafting a design for a frontage road, as I have proposed. In the event that my proposed alternative is not possible I would request that Olde Stone Village be allowed to retain (grandfathered) its direct access to Highway 18. I would appreciate you making this letter and my June 23. 1995 letter a part of the public record in this matter.

Paul Brewer

Olde Stone Village

Mobile Home and RV Park

P.O. Box 6956

F-14 Appendix F

Laguna Niguel, CA 92607

Edwina and John Castle 10935 Clair Ln. SE Dayton, OR 97114

January 20, 1996

Wavne Rickert, Jr. Mid-Willamette Valley COG 105 High Street SE Salem, OR 97301

Dear Mr. Rickert:

We are writing concerning the McMinnville corridor refinement study and frontage road alternatives. We were out of town during the initial MWVOCOG open house on June 19, 1995. But were happy to hear that safety issues were brought up on the vehicles turning onto or off of the highway to or from intersecting roads.

As you can tell from our address, we have to deal with safely entering and exiting on Highway 18. Our biggest safety risk we experience on a daily basis is the cross traffic entering Highway 18 from Cruickshank as we exit Highway 18 onto Loop road. Cruickshank exit proves to be a challenge of the wits, with anxious commuters from Salem and surrounding areas heading into McMinnville. The divided passing lane helps, yet some westbound commuters are so busy looking over their shoulders and speeding up to merge that they sometimes don't see me patiently sitting there waiting to turn onto Loop Road. (I am in the passing lane heading east.)

Yes, and the folly I experienced the other day prompted my husband to suggest I write you. I am eastbound on Highway 18 waiting for westbound traffic to clear. Meanwhile, THREE anxious drivers on Cruickshank are waiting to merge into westbound traffic. I have right-of-way, or so I think, because I am on the major thoroughfare. Well, the driver on Cruickshank jumps into the passing lane while I am waiting. The others follow his folly and pass him, with the third smiling as he wizzes past everyone. Mind you, maybe common courtesy is a relic of the Model T. Therefore, I am requesting a safe way home, via a stop light. I see all the crazy drivers on Highway 18 speeding to the coast and the casino. I have 2 boys, I want to see them grow up. I am concerned about the safety of the Loop Road/Cruickshank interchange.

My husband and I prefer the frontage road alternative because of the stop light regulated traffic. We also like the Norton Lane connection for Highway 18 and Highway 99.

My husband works at Lawrence Gallery, he is interested in a bike path as well. We do see a lot of bicycle traffic in the fair weather months. As a dance teacher, I not only commute to Sheridan but also to Newberg. We both have to face the safety issues of this Loop/Cruickshank interchange.

Highway 18 is only going to get busier, please keep us informed on the issues. Thank you for considering the safety issues for residents living off of Loop Road.

Appendix G: Summary of Alternative Solutions

Solutions

Preliminary Steps

The TAC began its work by investigating some known options to determine what impediments might exist. The first of these options was the use of Norton Lane as a north-south arterial as proposed in the McMinnville Transportation Master Plan. The arterial would provide a connection around the central city for traffic to and from areas expected to have the most employment growth over the next twenty years. The Master Plan projects 760 vehicles using the arterial entering Highway 18 during evening peak hours. The Master Plan determined that the LOS decrease from traffic using the proposed arterial would eventually require an interchange or overcrossing of Highway 18 at Norton Lane. An overcrossing would have less impact to area land use than a full interchange. It was reviewed in detail to determine its practicality as an option. Two overcrossing design styles were investigated: one with overcrossing approaches established on standard fill slopes and the other with retaining walls. The standard fill style required land extending perpendicularly well into both Tanger and McDonald's lots. The wall style would be more expensive and place an unsightly concrete blockade between the east and west sides of Norton Lane. Both styles require an overcrossing approach to

leave ground level in the vicinity of Aaron Drive of River Bend subdivision. Residential streets and commercial entrances/exits intersecting Norton Lane would require relocation. Also, model runs did not show a significant overall traffic benefit from an overcrossing in this area. The placement of an interchange in this area was found to be impracticable because of major impacts on existing developments. Additionally, vehicle conflicts would result from attempting to accommodate weaving, merging, and other movements between interchanges located too close together.

The TAC recognized that encouraging multimodal opportunities was important to the plan and that vehicular traffic solutions may impede the bicycle/pedestrian travel options. Therefore, the possibility of a pedestrian/bicycle overcrossing was investigated. The TAC determined that such a structure was likely to be needed in the area of Norton Lane, although a precise location should be determined later.

Preliminary data also indicated that the existing East McMinnville interchange would eventually require conversion to an all directional interchange, so the TAC investigated potential impacts of such a change. As part of this effort and in response to public comments, it was determined that the Nehemiah Lane intersection with Highway 18 Spur should be relocated across from

the frontage road on the east of the Spur, the Spur widened with a left turn lane, and a signal installed.

In addition to the East McMinnville interchange upgrade, early indications were that a second interchange would be necessary to distribute traffic to and from industrial lands at the eastern end of the corridor as well as accommodate a north-south arterial. The TAC investigated three potential sites using criteria such as technical feasibility, traffic impacts, and impacts to existing development areas.

- The first area investigated was between Armory Way and Cruickshank Road; however, three significant problems were encountered with locations along that section of the highway.
 - First, the overcrossing approach and ramps for the interchange extended well into the airport including aircraft parking areas and taxiways.
 - Second, above ground sites located near Cruickshank were flawed because of facility height restrictions and the runway safety zone limits.
 - Third, traffic circulation patterns and buildings at a major employment center, Evergreen International Aviation, Inc. were severely impacted.
- An interchange further east was also discussed but rejected because it did not serve the city's needs either as a connection for the

- north-south arterial or land access along the corridor.
- An interchange east of Kingwood Subdivision and west of the Evergreen Complex offered the best alternative.
 - Least impact on land uses.
 - Served need as an access for north-south arterial.
 - Minimize traffic conflicts.

Undercrossing

An undercrossing at or near Cruickshank Road was also discussed and initially rejected because of reported water level problems in the area, but a subsequent review by a state geologist indicated the water levels should not prevent an underpass in the area, providing drainage controls were adequate. Initial impacts noted were:

- Removes need for a wide southern collector-access road. Narrow two lane would be adequate from new interchange to Cirrus Ave. Also would facilitate routing the collector-access road south of Armory.
- Routing Cruickshank Road traffic to the north would negatively impact the LOS on an east-west collector access north of Highway 18.

Later, this possibility was re-examined in greater detail and the following observations were made:

The construction and drainage costs were estimated to increase the collector-access option by \$1,900,000.

- The pump system necessary for this option would require extraordinary maintenance and, even then, mechanical failures would increase after several years.
- All Cruickshank Road traffic could route to the north, preventing unnecessary traffic through the industrial area.
- Advantages of this solution are better accommodated by other solutions.
- On/off ramps with Highway 18 were not practical.

Shifted Highway

An option to shift a portion of the existing highway to the north was also studied.

- The benefit of this option was the frontage access roads between the proposed new interchange and the airport land could be used as originally envisioned.
- Extensive utilities (water, electrical, fiber optics, sewer) lie in the area to be shifted, so relocation and construction costs would potentially increase by \$6,200,000, excluding additional right-of-way, with no additional transportation gains.

Widening/Turning Capacity

Widening the existing road and adding more turning capacity at intersections were also among the options reviewed.

- Increasing turning capacity offers some interim benefit, but widening offered little benefit either for local or through traffic.
- Regardless of the road's width, over time a growing volume of local traffic will seek to enter Highway 18 from intersecting roads and either accidents increase as drivers become impatient and attempt to jump into the flow of traffic, or there will be a demend to place a signal at the intersection to help with entering and to enhance safety.
- Signals result in slowing and congesting traffic on the through road. This in turn causes the road operation to deteriorate over time.

Bypasses

As discussed in the section on Transportation Needs and Solutions, a significant alternative to the chosen collector-access alternative was the alternative bypass option (see Figure 13). The advantages and disadvantages are well documented earlier in this plan. Variations of the alternate bypass alternative were also discussed. Some of these were based on connecting to the Newberg-Dundee bypass and/or rerouting several miles of Highway 99/18 over state and county roads.

G-2 Appendix G

- Locations run counter to sections of the transportation planning rules and would require considerable Goal 12 exceptions and special permits to widen, straighten, and construct new roads.
- A loss of connection to the cities would occur.
- The ability to construct by phases is lost and the cost increases dramatically.

These disadvantages make it likely that such a system would not be constructed for decades past this planning period and the Three Mile Lane corridor would become a severly congested roadway and remain that way for years.

Double Decking

Two suggestions were received for a "double decked" highway. The primary disadvantages of this option are increased cost (up to \$44 million) and loss of ability to phase the work as needed.

Modification of Collector-Access Road Locations

The TAC studied modifications of the collector-access road locations to determine the optimal collector-access road system. Most of the effort was directed towards dealing with the area between the proposed new interchange and Cruickshank Road. These efforts resulted in the final solution shown in the main body of this plan.

Aspects of each modification are as follows:

Modification 1: Close Cruickshank near airfield and let traffic use Lafayette

- Removes the need for a frontage road from Cruickshank to Cirrus.
- Removes concerns of Airfield Manager and State Aeronautics over facilities near the airport (see Modification 2 - Move Cruickshank).
- Removes left turn conflicts with Loop Road.
- Removes need for three-lane frontage road from the new interchange to Cirrus because lower traffic volumes will facilitate routing part of the frontage road behind Evergreen property.
- If the Air Museum is located near Airport Road, the traffic generated will use Lafayette Highway intersections to reach and leave the attractions. That intersection may then need improvements.
- May add as much as 4018 ADT to the southerly approach to the Lafayette intersection which presently has an ADT of 2070.
- Adds a worst case 2.6 round trip miles (4.2 kilometers) for some traffic [Cruickshank to Lafayette Highway is approximately 1.3 miles (2.1 kilometers)]. For drivers accustomed to accessing Cruickshank from Lafayette, the additional distance is estimated at slightly under one mile (1.6 kilometers).

- The highest number of accidents near the study area is at the Lafayette Intersection (six nonfatal accidents in three years).
- Modifications to the Lafayette intersection will be necessary to handle increased traffic. The modification (overpass - jughandle) will improve safety and more than make up for the additional travel time; since by the time it is constructed, the delays to enter Highway 18 from Cruickshank Road will be excessive.

Modification 2: Move Cruickshank approximately 100 feet (30.5 meters) east and/or start a frontage curve closer to Highway 18

The present frontage road option is within the 1000 foot (304.8 meters) Runway Safety Zone and will require FAA waiver if left as shown on conceptual plan.

- Limit frontage road to two lanes in this area, which is inadequate in the long term. Road passes close to Petroleum. Oil, Lubricant (POL) storage area. No fire standards strictly apply. An interpretation of Fire Codes implies five-foot (1.5 meters) separation between edge of road and any pipes may be necessary.
- Land between Cirrus and Cruickshank is owned by the city.

G-4 Appendix G

January 12, 2022

To: McMinnville Planning Commission

Heather Richards, McMinnville Planning Director

From: Steve Iversen

1033 SW Courtney Laine Dr

McMinnville 97128

Subj: Three Mile Lane Area Plan – comments and suggested improvements

I write to the Commission as a resident of McMinnville who uses the highway 18 bypass for leaving and returning to town, who visits the Three Mile Lane area for medical appointments, entertainment and business at the cable TV company, and who, as a Habitat for Humanity construction volunteer, goes on a regular basis to the Aspire development on Cumulus. I thus have an appreciation of some of the challenges faced by the Three Mile Lane Area Plan in its conception and execution.

When reviewing a plan like this with such ambition and scope, I find that what rises for me as priority concerns are: How was the plan developed and presented, and what are the impacts and benefits for those who live and work in the area as well as the city at large?

In consideration of those concerns, I offer the following comments and suggestions regarding the Three Mile Lane Area Plan.

1. Plan development and presentation

Good: Clearly, a great deal of thought, consultation and plain hard work went into development of the plan. The emphasis on area aesthetics and accessibility, provision for pedestrian walkways within the area and preservation of natural views, and advocacy for new walking trails and park space are noteworthy positive features of the plan.

Bad: Despite all the planning involved, only one option for near-term development is presented. This is the "Preferred Alternative" that seemingly pops up out of nowhere (3MLAP, p. 20). This arose in the aftermath of a workshop involving the owners of three key properties on the south frontage of Three Mile Lane, judged to be primary objects of development due to their central location and proximity to OR 18. Perhaps it is customary to involve property owners in this way to get their feedback, however the "Preferred Alternative" aligns so closely with the known desire of one of the owners to build a destination retail center there, that this outcome seems preordained. The Preferred Alternative is a very good deal for the property owners, but may not necessarily be so good for those in the immediate area or the rest of the city. Furthermore, this land is now zoned industrial, requiring a zone change approval from the city. By being presented in this way in the 3MLAP it seems that both the zone change and the Preferred Alternative development plan are already baked-in, and we will get a retail center on that spot.

Recommendations: At the very least, the genesis of the "Preferred Alternative" should be more fully explained in the 3MLAP. Perhaps other options should be shown. If the PC approves the 3MLAP does this mean that the "Preferred Alternative" is endorsed as the one path forward? That should be made clear in the staff report prior to the public hearing.

2. Is the area accessible, for both residents of the Three Mile Lane corridor and the community at large?

Background: Because the plan area is separated from the city by the Yamhill River, it is fundamentally isolated from McMinnville with only two major arteries to it – Three Mile Lane and OR 18. Improving accessibility is a major challenge and is key to the success of the 3MLAP.

Good: The new Yamhill River Bridge will help to make the 3ML area access more convenient, particularly for pedestrians and bicyclists. Other proposed transportation improvements, such as an improved interchange where 3ML meets OR 18, are also essential.

Bad: As it stands, the proposed access measures fall short. Granted, there is probably no practical way to measurably increase accessibility, but one measure that has been proposed, a pedestrian bridge across the river to Joe Dancer Park, could have a very positive effect. Although it is mentioned as a critical amenity in several supporting documents, it is only briefly mentioned in the 3MLAP ("... a potential footbridge over the river connecting to the park and beyond to downtown. This could serve as a valuable pedestrian and cycling connection to downtown to supplement the new Three Mile Lane Bridge," 3MLAP, p. 23)

Recommendations: Add a commitment to seeking funding to build a pedestrian bridge to Dancer Park (perhaps in Policy #5, p. 35); place a cost estimate for this amenity into 3MLAP, Table 2, p.40.

3. Is there good interconnectivity within the plan area?

Background: Currently most residents of the area live to the north of OR 18, with some commercial development interspersed. As the corridor grows, new residents will be added to both north and south, making neighborhood connectivity both along and **across** OR 18 a high priority.

Good: There is strong emphasis in the plan on connectivity within the area (*Goal 3 – Enhance multi-modal connections throughout the district*, 3MLAP, p. 15). Connecting the frontage roads through the corridor on both sides and adding sidewalks and bicycle lanes, as described in the 3MLAP, are necessary steps.

Bad: As the area develops, and businesses, offices and park spaces are added on both north and south sides of OR 18, access **across** highway 18 becomes a hugely important aspect for residents and visitors in the area. Yet N-S access across the corridor, especially for pedestrians and bicyclists, is essentially blocked by highway 18. There is scant mention of, but critical need for, pedestrian bridges (more than one) spanning the highway.

Recommendations: I would like to see an emphatic commitment in Policy #8 (3MLAP, p. 35-36) to pedestrian bridges across OR 18 and to efforts to plan and

fund their construction. Also, a cost estimate should appear in Table 2 on page 40 of the 3MLAP.

4. Is there provision for amenities for shopping and entertainment for the benefit of residents, workers and visitors?

Background: As the population in the 3ML corridor grows, there will be an obvious need for businesses that serve basic community needs, as well as opportunities for dining and entertainment. This is (briefly) captured in Goal 5 (*Goal 5 – Improve the district for existing and future residents*, 3MLAP, p. 15) with the mention of "*grocery stores, restaurants and more.*"

Good: There is strong emphasis in the 3MLAP on the need for area amenities, done to high aesthetic standards. This will go a long way toward making this a vital part of the city. The mixed-use concept in the commercial development is an appealing feature, as is the emphasis on adding to public open space and walking trails. The stated need for local neighborhood services is a positive expression of support to the community.

Bad: Again, we seem to be more or less locked into a plan that will lead to large commercial development on the south side of OR 18, and this development may not effectively serve the needs of the local residents. I believe such everyday amenities as a grocery store, pharmacy, and other basic services are a top priority in the buildout of new commercial zones in the corridor, yet there is no statement to that effect in the list of policies.

Recommendations: Such a statement should be inserted in the policies. Also, any new commercial center built anywhere in the 3ML corridor should be required to provide electric car charging stations, and this requirement should be inserted into the policies.

5. What are the traffic impacts of new development? Does the plan preserve traffic flow along OR 18 for residents of the area who use the highway as a bypass and for travelers bound for destinations to the west or east of town? Background: Goal #1 for the project is "Support & enhance the district's economic vitality and marketability" (3MLAP, p. 15). During plan development, certain metrics were adopted to help guide evaluation of each goal, and one such objective for Goal #1 was: "Sustain the mobility of Highway 18 through the area as a key intercity and freight route" (3MLAP, Appendix D, "Evaluation and Screening," p. 3). This imperative appears again and again in the plan documents.

Good: Highway 18 does serve as a major freight (and intercity transit) route. The 3MLAP calls for an upgrade of the 3ML/OR 18 interchange, Much effort has been

3MLAP calls for an upgrade of the 3ML/OR 18 interchange. Much effort has been expended on traffic impact studies and development of options for maintaining and enhancing traffic flow through the corridor. That's the good news.

Bad: Several options short of full highway interchanges at the Yamhill River bridge, and Norton and Cumulus Lanes have been studied, none of them satisfactory. Highway 18, supposedly a bypass of the commercial congestion on highway 99W and Lafayette Avenue in McMinnville, is already interrupted by two traffic signals. Yet the final designs all converged on leaving those signals in place, justified by 20-year projections that traffic mobility would remain within reasonable limits. OR 18

now effectively isolates north from south sides of the highway, and this ensures that only cars will be used for access.

Recommendations: The only satisfactory solution is full overpass/underpass interchanges at any major intersection that would otherwise have a traffic signal, currently the intersections of Norton and Cumulus. I'm afraid that the expense involved will postpone this necessary step for the near, and perhaps distant, future. Without this, driving on highway 18 and accessing neighborhoods adjacent to highway 18, already mildly irritating, will become ever more frustrating. If interchanges are out of the question, then for gosh sakes we need to build pedestrian overpasses from north to south over OR 18.

The Three Mile Lane Area Plan in its current form, in my opinion, does not effectively meet the needs of either the residents of the plan area or of the community at large. **It would be a grave mistake to approve it as such**. If stronger development policies are added to the plan it will have a much better chance of success in attaining its lofty vision, but more dramatic actions, along the lines of those I have outlined, will be needed to make it truly reflective of the McMinnville Great Neighborhood Principles.

Signed, Steve Iversen McMinnville