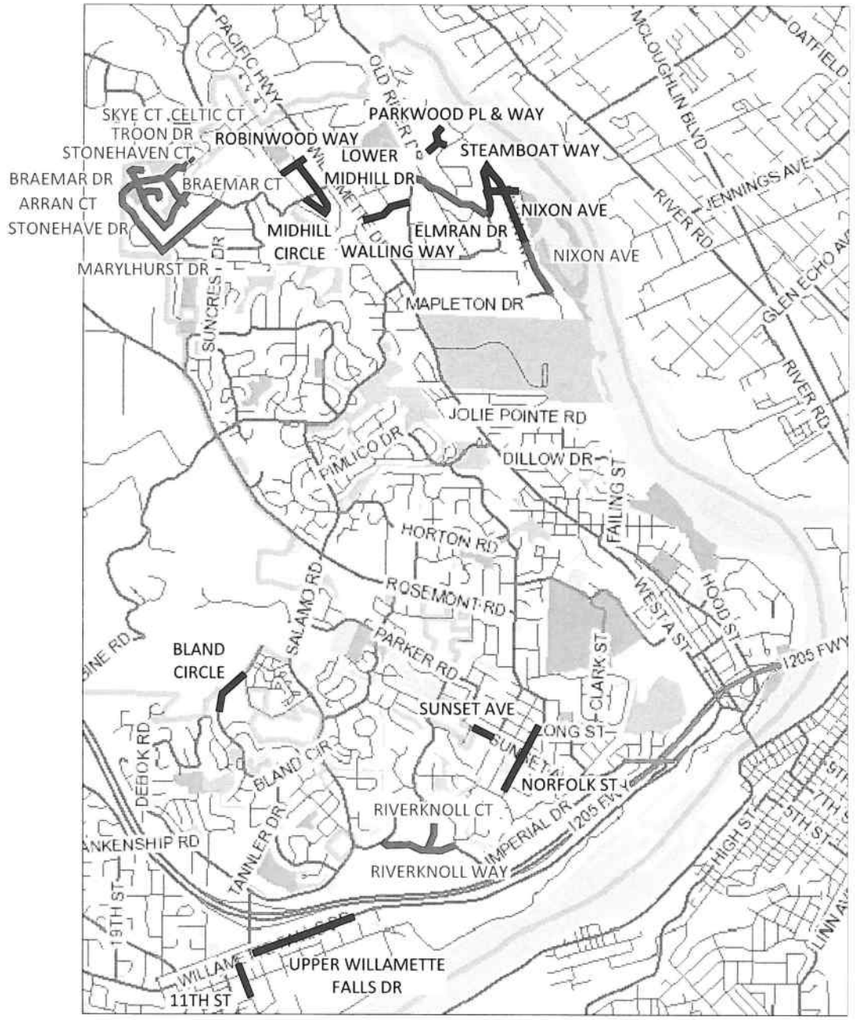
CITY OF WEST LINN
2015 Road Program
PW-14-16

BID DOCUMENTS



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PAVING

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NORFOLK ST	FAIRHAVEN DR	SUNSET AVE	C1.0-C1.1
NORFOLK ST	SUNSET AVE	LANCASTER ST	C2.0-C2.1
SUNSET AVE	CORNWALL ST	2785 SUNSET AVE	C3.0-3.1
BLAND CIRCLE	23004 BLAND CIRCLE	WEATHERHILL RD	C4.0-4.1
UPPER WILLAMETTE FALLS DR	10TH ST	6TH ST	C5.0-C5.2
11TH ST	WILLAMETTE FALLS DR	4TH AVE	C6.0-6.4
MIDHILL CIRCLE	MARYLHURST DR	MARYLHURST DR	C7.0-7.2
LOWER MIDHILL DR	MARYLHURST DR	DEAD END	C8.0-C8.1
ROBINWOOD WAY	UPPER MIDHILL DR	WILLAMETTE DR (HWY 43)	C9.0-9.1
WALLING WAY	WILLAMETTE DR (HWY 43)	OLD RIVER DR	C10.0-10.1
PARKWOOD WAY & PLACE	CALAROGA DR	DEAD END	C11.0-C11.2
ELMRAN DR	CEDAROAK DR	BOAT RAMP	C12.0-C12.2
STEAMBOAT WAY	ELMRAN DR	NIXON AVE	C13.0-C13.1
NIXON AVE	STEAMBOAT WAY	19025 NIXON AVE	C14.0-C14.1
PUBLIC WORKS OPERATIONS YARD		4100 NORFOLK	C15

SLURRY SEAL

STREET	FROM	TO	Sheet No.
ELMRAN DR	TRILLIUM DR	CEDAROAK DR	S1
TROON DR	SKYE PKWY	MARYLHURST DR	S2
STONEHAVEN CT	TROON DR	CUL DE SAC	S2
MARYLHURST DR	TROON DR	SKYE PKWY	S2
STONEHAVEN DR	TROON DR	SKYE PKWY	S2
BRAEMAR DR	TROON DR	STONEHAVEN DR	S2
BRAEMAR CT	STONEHAVE DR	CUL DE SAC	S2
SKYE CT	SKYE PARKWAY	CUL DE SAC	S2
CELTIC CT	SKYE PARKWAY	CUL DE SAC	S2
NIXON AVE	19025 NIXON AVE	MAPLETON DR	S3
RIVERKNOLL WAY	BARRINGTON DR	BEACON HILL DR	S4
RIVERKNOLL CT	RIVERKNOLL WAY	CUL DE SAC	S4

STORM

STREET	FROM	TO	Sheet No.
CORNWALL ST	CAMBRIDGE ST	FAIRHAVEN ST	D1.0-1.1

PAVEMENT MARKING

ROSEMONT RD AT HIDDEN SPRINGS RD	M1.0
PIMLICO DR AT WILLAMMETEE DR (HWY 43)	M2.0

GENERAL NOTE

All work within the public right-of-way shall conform to the current ODOT Oregon Standard Specifications for Construction

GIS BASE MAP INFORMATION

Data Source: West Linn GIS
OGIC Disclaimer: This product is for informational purposes and may not have been prepared for, or be suitable for legal, engineering, or surveying purposes. Users of this information should review or consult the primary date and information sources to ascertein the usability of the information.

ATTENTION

Oregon law requires you to follow rules adopted by the Oregon Utility Notification Center. Those rules are set forth in OAR 952-001-0010 through OAR 952-001-0090. You may obtain copies of the rules by calling the center. (Note: the telephone number for the Oregon Utility Notification Center is (503) 232-1987).

Know what's below. Call before you dig.

CITY OF WEST LINN
22500 SALAMO ROAD
WEST LINN, OREGON 97068
WWW.WESTLINNOREGON.GOV
PHONE: (503) 567-0331
FAX: (503) 650-9041

REGISTERED PROFESSIONAL ENGINEER 87272PE OREGON JAN 08, 2013 LANCE E. CALVERT

EXPIRES: 12/31/2015

CONTRACTOR
NAME: -N/A
ADDRESS: -N/A
PHONE: -N/A
FAX: -N/A

CITY OF WEST LINN
2015 ROAD PROGRAM

COVER SHEET

PROJECT NO.: PW-14-16
DESIGNED BY: LCALVERT
DRAWN BY: NBRENNAN
CHECKED BY: LCALVERT
DATE: 5/7/2015

REVISION

DATE	DESCRIPTION

COVER SHEET
SCALE: 1' = 50' Horizontal

CS

CITY OF WEST LINN
2015 Road Program
PW-14-16

BID DOCUMENTS

GENERAL NOTES:

1. All construction shall conform to the latest City of West Linn Public Works Standard Construction Specifications and Standard Drawings. The ODOT standard specifications for construction will apply for measurement and payment.
2. This set of plans has been reviewed for compliance with City of West Linn requirements prior to issuance for construction. However such review shall not prevent the City Engineer from requiring correction of errors or omissions in plans found to be in violation of any law or ordinance.
3. The City Engineer does not warrant any quantities shown on these plans. Quantities are estimates. Unit pricing to be used for all construction.
4. The Engineering Division, Inspection Section shall be notified twenty-four (24) hours prior to any construction work by telephone at 503-722-5501. Any work concealed without inspection shall be subject to removal and replacement at the Contractor's expense.
5. Any approved set of plans must be available on the job site at all times. The contractor's representative (capable of communicating with the City's representatives) shall be on the job at all times the work is being pursued.
6. The Contractor is responsible to provide emergency telephone numbers to the City of West Linn at time of receiving Project Notice to Proceed and have personnel available 24-hours a day to respond to emergencies. If the City is required to respond and make emergency repairs on behalf of the Contractor, the Contractor is responsible to reimburse the City for all costs incurred.
7. It is understood that there will be interfering utilities, service laterals, and other underground pipes, drains or structures encountered on underground projects that are not shown or are shown incorrectly on the plans and/or have not been previously discovered in the field. Contractor agrees this is a normal and usual occurrence in the construction of underground IMPROVEMENT. Furthermore, bidders understand and agree that work in some cases must be done in close proximity to said utilities and underground pipes, drains, and structures which may require a change in operations and may cause sloughing of the trench, additional traffic control, additional pavement and backfill costs, and time. The contractor agrees that a reasonable number of these occurrences are usual and ordinary on underground projects and are reflected in the bid and plan of operation.
8. It is the responsibility of the contractor to obtain any and all other permits and meet any requirements set forth by other agencies or utilities which have jurisdiction at the contractors expense.

SEWER NOTES:

1. Water and sanitary sewer line crossings shall conform with the Oregon Administrative Regulation 333-061-0050(9).
2. Pipe bedding and trench backfill are incidental to pipe.
3. It is the responsibility of the contractor to schedule water and sewer testing with the City inspector, per West Linn Standards.

TRAFFIC CONTROL GENERAL NOTES:

1. No road closure shall be allowed without City Engineer's prior approval as delegated by the City Manager.
2. The Contractor shall provide traffic control plan for City Approval
3. Traffic control shall conform to the ODOT Temporary Traffic Control Handbook and MUTCD. The Contractor shall submit a Traffic Control Plan to the City of West Linn Engineering Division for review and acceptance a minimum of 48-hours prior to construction. A copy of the accepted Traffic Control Plan must remain on the job site at all times.
4. Maintain vehicular, bicycle, pedestrian, bus, and emergency vehicle access to area homes throughout construction.

CONSTRUCTION NOTES:

1. Contractor shall provide erosion control best management practices per City of West Linn Standards. Provide catch basin protection and continual sweeping so that no mud, sediment, or rock is left on the streets.
2. The contractor is responsible for all construction surveying and construction staking for the project.
3. Water used for construction must be filled at the designated tanker fill site located next to 1970 8th Ave. - No hydrant meters will be provided
4. Contractor shall provide ingress and egress to residential driveways with limited delay.
5. No vehicle shall be permitted to work on this project that has more than one (1) drop axle in which raising the additional axles would cause the vehicle to exceed legal load limits. This includes a rear tag axle.
6. Working Hours: 7:00 AM - 5:00 PM Monday - Friday
   9:00 AM - 5:00 PM Saturday - Sunday & Holidays

ASPHALT PAVING AT THE CITY'S PUBLIC WORKS YARD SHALL BE PERFORMED ON A SATURDAY OR SUNDAY BETWEEN THE HOURS OF 9:00 AM - 5:00 PM.

ADDITIONAL NOTES:

1. Contractor shall be responsible for all construction surveying and construction staking. Final grades as determined by City Engineer.
2. Asphalt concrete pavement repair shall include aggregate base backfill/removal as necessary for meeting final grade.
3. All existing asphalt/concrete shall be sawcut for removals with no additional compensation.
4. All slurry seal locations shall be completed by August 31, 2015.

UTILITY PROVIDERS

WATER:	CITY OF WEST LINN	PUBLIC WORKS	503-656-6081
STORM:	CITY OF WEST LINN	PUBLIC WORKS	503-656-6081
SEWER:	CITY OF WEST LINN	PUBLIC WORKS	503-656-6081
POWER:	PGE	BOBBIE DANIELSON	503-742-8483
STREET LIGHTS:	PGE	JEFF STEIGLEDER	503-736-5728
GAS:	NW NATURAL	DAVID BENTON	503-226-4211x2357
CATV:	COMCAST	BOB BOBMILLAR	360-828-3559
PHONE:	QWEST	KENNETH SCIULLI	503-242-0304

GENERAL NOTE

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CITY OF WEST LINN 2015 ROAD PROGRAM

GENERAL NOTES

PROJECT NO.: PW-14-16
DESIGNED BY: LCALVERT
DRAWN BY: NBRENNAN

CHECKED BY: LCALVERT
DATE: 5/6/2015

REVISION

DATE	DESCRIPTION

COVER SHEET

SCALE: 1" = 50' Horizontal

GN

BID DOCUMENTS

ITEM	ODOT Specification #	DESCRIPTION	Unit	Norfolk 1	Norfolk 2	Bland Cir	Sunset	Cornwall	Upp WFD	11th St	Midhill Cir	Lower Midhill	Robinwood	Walling	Parkwood	Elmran 2 &3	Steamboat	Nixon 1	S- Elmran 1	S-Mayhurst	S-Nixon	S-Riverknoll	M-ROSEMONT	M-PIMLICO	CITY PUBLIC WORKS YARD 4100 NORFOLK	TO BE DETERMINED	Total
1	00210.90	MOBILIZATION	LS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**1**
2	00225.90a(2)	TEMPORARY WORK ZONE TRAFFIC CONTROL, COMPLETE	LS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**1**
3	00280.90a	EROSION CONTROL	LS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**1**
4	00310.92b	REMOVAL OF CURBS	LF	-	-	-	-	-	-	60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**60**
5	00310.92c	REMOVAL OF WALKS AND DRIVEWAYS	SY	-	-	-	-	-	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	300	**340**
6	00310.92d	REMOVAL OF SURFACINGS	SY	-	1100	60	1495	-	4450	1260	2467	2046	1833	120	160	920	350	-	-	-	-	-	-	-	-	-	**16261**
7	00330.93d	GENERAL EXCAVATION*	CY	548	-	10	-	-	40	120	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**758**
8	00331.90	8 INCHES SUBGRADE STABILIZATION (WIDENING)	SY	361	100	-	-	-	-	1260	-	-	-	-	130	920	500	226	-	-	-	-	-	-	-	-	**3497**
9	00331.90	8 INCHES SUBGRADE STABILIZATION (SOFT SPOT REPAIR)	SY	60	60	60	60	-	60	60	60	60	60	60	60	60	60	60	-	-	-	-	-	-	-	-	**840**
10	00344.90a	TREATED SUBGRADE 8 INCHES THICK, (CTB)*	SY	-	-	2185	1157	-	4450	-	2467	2046	1833	-	1800	920	-	-	-	-	-	-	-	-	-	-	**16857**
11	00490.90g	CONNECTION TO EXISTING STRUCTURES	EA	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**1**
12	00610.90	RECONDITION EXISTING ROADWAY	EA	1	1	1	1	-	1	1	1	1	1	-	1	1	1	-	-	-	-	-	-	-	1	-	**13**
13	00445.91b	12 INCH REINFORCED CONCRETE PIPE	LF	-	-	-	-	500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**500**
14	00470.90a	CONCRETE INLETS, TYPE G-1*	EA	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**3**
15	00480.90	DRAINAGE CURB, AC	LF	-	244	-	-	-	-	-	1100	400	-	-	-	800	285	-	-	-	-	-	-	-	-	-	**2829**
16	00490.90a	MINOR ADJUSTMENT OF MANHOLES*	EA	1	-	4	1	-	5	6	5	2	3	7	1	5	1	3	-	-	-	-	-	-	-	-	**44**
17	00490.90c	ADJUSTING INLETS	EA	4	1	-	-	-	4	7	6	-	-	1	1	2	2	2	-	-	-	-	-	-	-	-	**30**
18	00490.90d	ADJUSTING BOXES	EA	5	5	-	2	-	11	12	3	3	5	5	2	2	6	2	-	-	-	-	-	-	-	-	**63**
19	00620.90	COLD PLANE PAVEMENT REMOVAL, 0 TO 2 INCHES DEEP*	SY	550	-	-	-	-	-	370	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**920**
20	00620.90	COLD PLANE PAVEMENT REMOVAL, 2 INCHES DEEP*	SY	-	-	-	-	-	-	-	-	-	-	3370	-	2475	2222	2133	-	-	-	-	-	-	-	-	**10200**
21	00706.90	SLURRY SEAL	SY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2950	31300	2950	8990	-	-	-	-	**46190**
22	00730.90	EMULSIFIED ASPHALT FOR TACK COAT*	TON	-	-	-	-	-	-	1.38	-	-	-	1.40	-	-	0.93	0.89	-	-	-	-	-	-	-	-	**5**
23	00745.90	LEVEL 2, 3/4 INCH ACP*	TON	50	126	251	133	-	520	150	284	235	211	-	-	106	60	270	-	-	-	-	-	-	-	-	**2396**
24		INTENTIONALLY LEFT BLANK		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
25	00745.90	LEVEL 2, 1/2 INCH FIBER REINFORCED ACP*	TON	384	125	251	134	-	520	390	284	235	211	387	234	390	311	270	-	-	-	-	-	-	-	-	**4126**
26	00745.90	LEVEL 2, 1/2 INCH ACP (DRIVEWAY CONNECTIONS)	TON	16	12	12	23	12	23	20	38	29	19	18	29	26	67	50	-	-	-	-	-	-	-	-	**394**
27	00746.90	CRACK SEALING, FLEXIBLE PAVEMENTS	LBs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1000	1000	1000	1000	-	-	-	-	**4000**
28	00748.90	3 INCH ASPHALT CONCRETE PAVEMENT REPAIR	SY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	300	300	300	300	-	-	-	-	**1200**
29	00759.90a	CONCRETE CURBS, CURB AND GUTTER*	LF	710	-	-	-	-	1812	915	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**3437**
30	00759.90	ADA CURB RAMP*	EA	-	-	-	-	-	7	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**10**
31	00759.90e	CONCRETE WALKS, WL-508B*	SF	-	-	-	-	-	120	6080	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2700	**8900**
32	00851.90a	PAVEMENT LINE REMOVAL*	LF	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4880	9840	-	-	1093	240	-	-	**16053**
33	00470.90c	CONCRETE MANHOLES, STANDARD MANHOLE WL-207, WL-605	EA	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**1**
34	01070.90	MAILBOX SUPPORT	EA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	-	-	-	-	-	-	-	-	**12**
35	00610.90	RECONDITION EXISTING ROADWAY (PARKING LOT)	EA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	**1**
36	00745.90	LEVEL 2, 3/4 INCH ACP, (PARKING LOT)	TON	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	529	-	**529**
37	00310.92d	REMOVAL OF SURFACINGS, (PARKING LOT)	SY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3067	-	**3067**
38	00851.90c	PAVEMENT LEGEND REMOVAL	EA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17	-	-	-	-	-	-	**17**
39	00150.15	CONSTRUCTION SURVEY	LS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**1**
40	00759.90c	CONCRETE DRIVEWAY, 6 INCHES DEPTH WL-503B	EA	-	-	-	-	-	-	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**11**
41	SP4*	LANDSCAPE RESTORATION*	LS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**1**

*SEE SPECIAL PROVISIONS

City of West Linn

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EXPIRES: 12/31/2015

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NAME: -N/A
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FAX: -N/A

CITY OF WEST LINN
2015 ROAD PROGRAM

QUANTITY SHEET

PROJECT NO.: PW-14-16
DESIGNED BY: LCALVERT
DRAWN BY: NBRENNAN

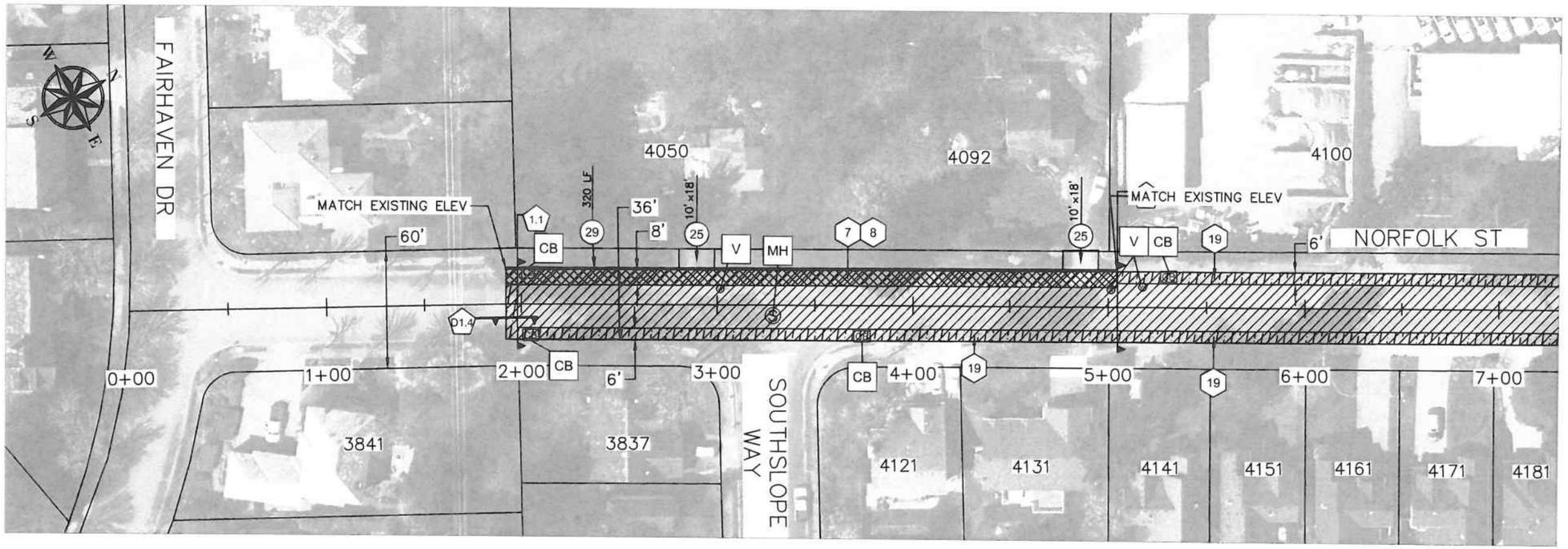
CHECKED BY: LCALVERT
DATE: 5/6/2015

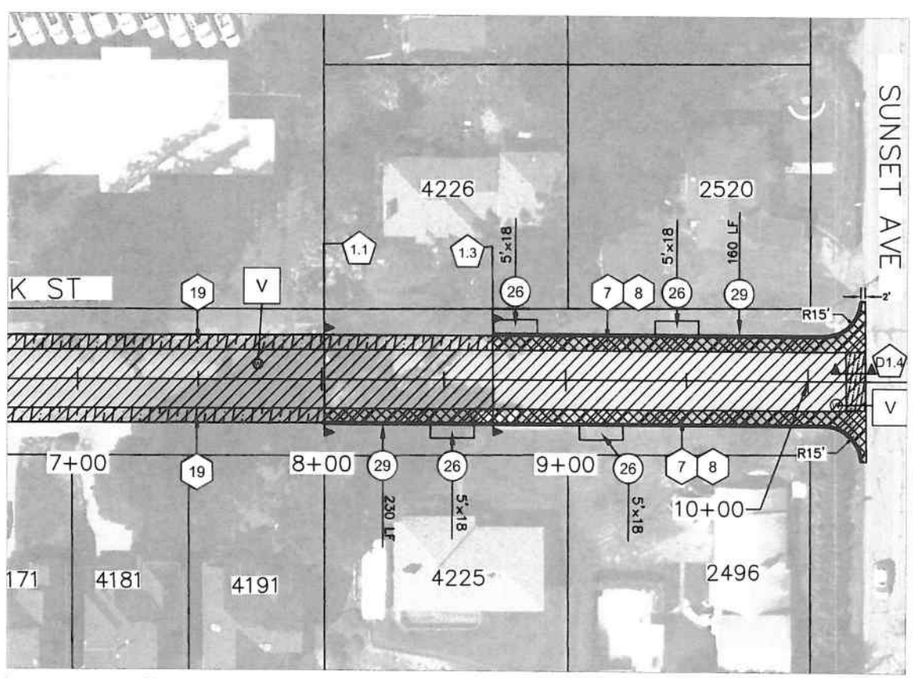
REVISION

DATE	DESCRIPTION

QUANTITY SHEET

QS





	ITEM	ODOT Specification #	DESCRIPTION	Unit	Estimate
7	7	00330.93d	GENERAL EXCAVATION*	CY	548
8	8	00331.90	8 INCHES SUBGRADE STABILIZATION (WIDENING)	SY	361
9	9	00331.90	8 INCHES SUBGRADE STABILIZATION (SOFT SPOT REPAIR)	SY	60
12	12	00610.90	RECONDITION EXISTING ROADWAY	EA	1
MH	16	00490.90a	MINOR ADJUSTMENT OF MANHOLES*	EA	1
CB	17	00490.90c	ADJUSTING INLETS	EA	4
V	18	00490.90d	ADJUSTING BOXES	EA	5
19	19	00620.90	COLD PLANE PAVEMENT REMOVAL, 0 TO 2 INCHES DEEP*	SY	550
23	23	00745.90	LEVEL 2, 3/4 INCH REINFORCED ACP*	TON	50
25	25	00745.90	LEVEL 2, 1/2 INCH FIBER REINFORCED ACP*	TON	384
26	26	00745.90	LEVEL 2, 1/2 INCH ACP (DRIVEWAY CONNECTIONS)	TON	16
29	29	00759.90a	CONCRETE CURBS, CURB AND GUTTER*	LF	710

NOTE:
1. DEPRESS CURB AT DRIVEWAYS.
2. DRIVEWAY EXCAVATIONS INCLUDED IN GENERAL EXCAVATION

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EXPIRES: 12/31/2015

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CITY OF WEST LINN 2015 ROAD PROGRAM

NORFOLK DR
FROM FAIRHAVEN DR TO SUNSET AVE

PROJECT NO.: PW-14-16
DESIGNED BY: LCALVERT
DRAWN BY: NBRENNAN

CHECKED BY: LCALVERT
DATE: 5/6/2015

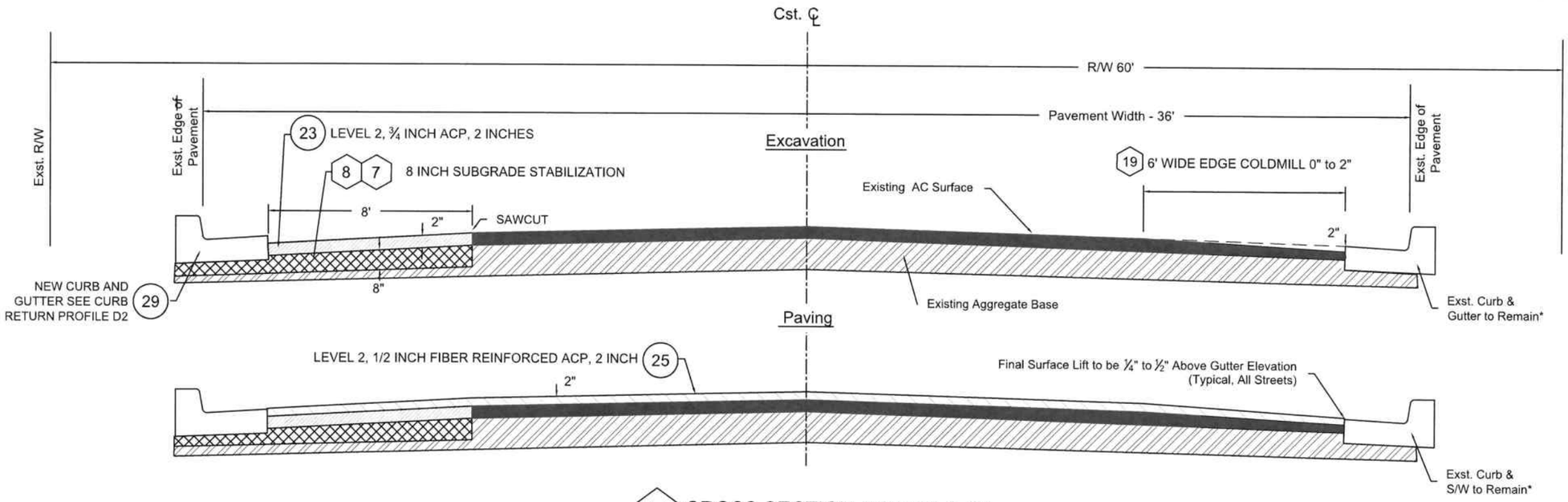
REVISION

DATE	DESCRIPTION

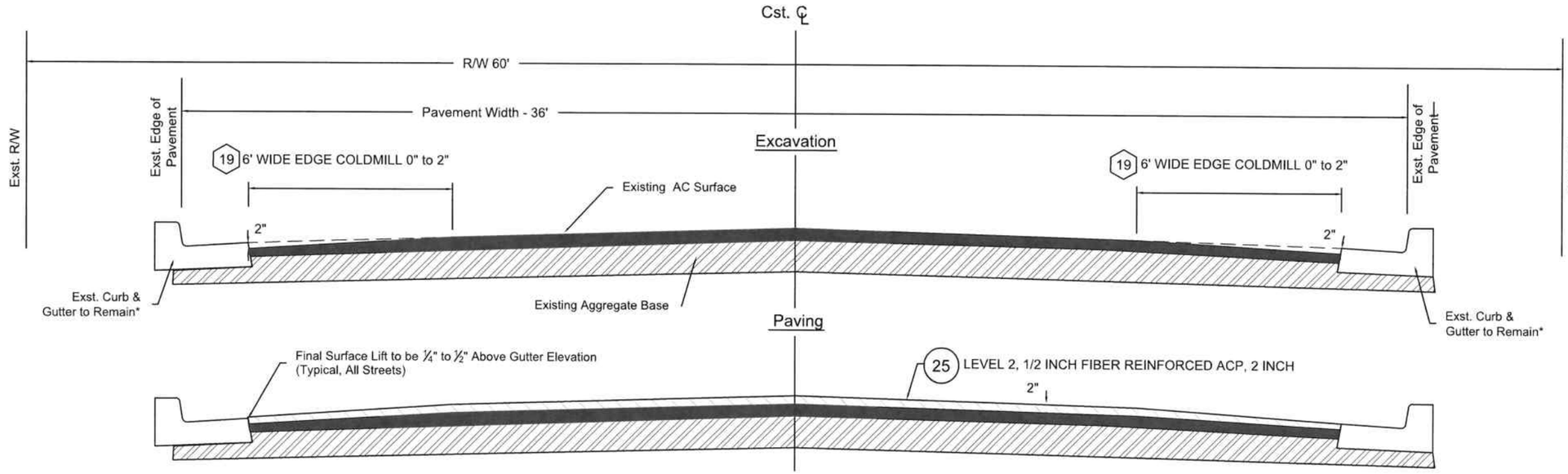
PAVING PLAN

SCALE: 1' = 50' Horizontal

C1.0



1.1 CROSS SECTION NORFOLK ST
Not To Scale
STA 1+98 TO 5+05
STA 8+00 TO 8+70



1.2 CROSS SECTION NORFOLK ST
Not To Scale
STA 5+05 TO 8+00

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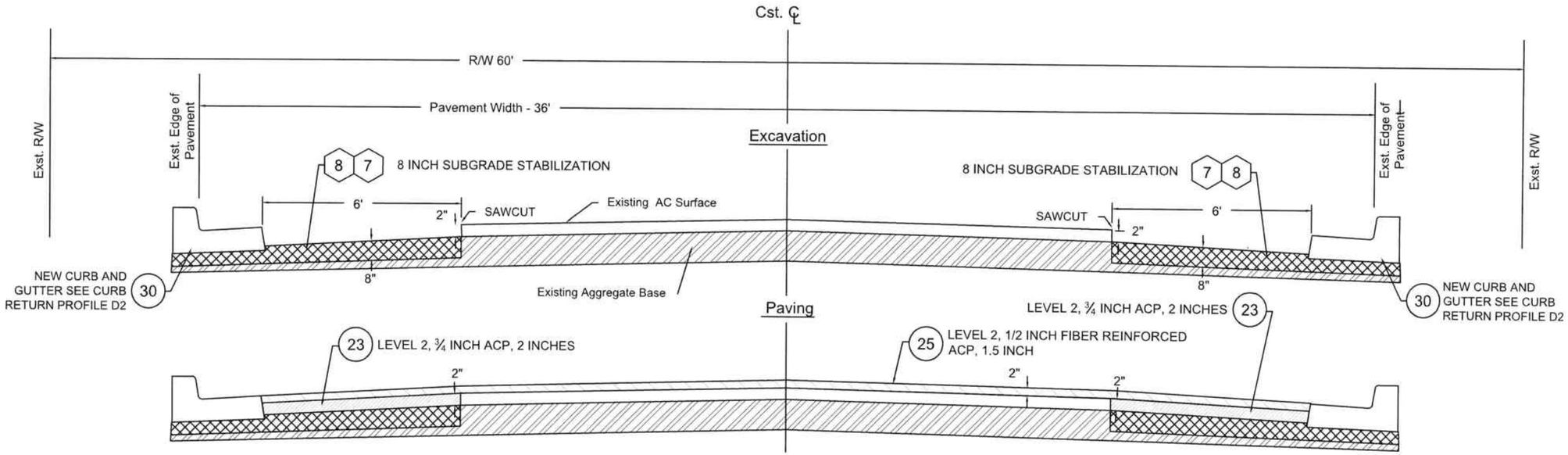
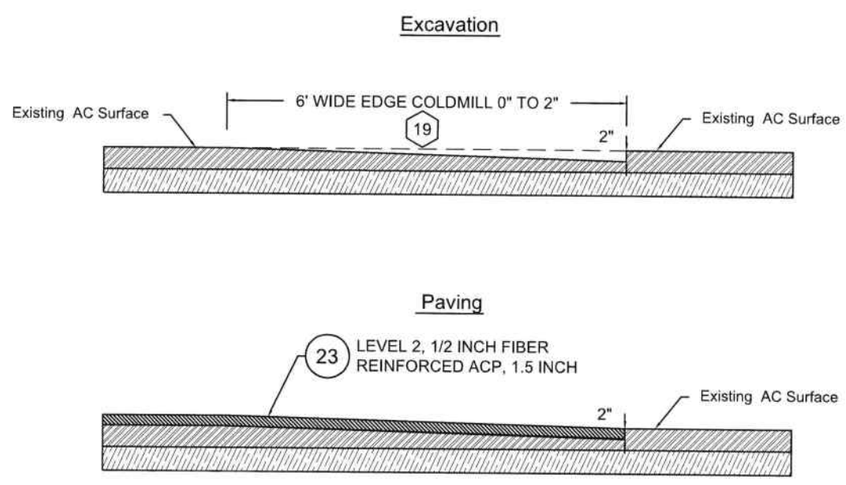
PAVING PLAN

SCALE: 1" = 50' Horizontal

C1.1



1.3 CROSS SECTION NORFOLK ST
Not To Scale
STA 8+70 TO 10+16



1.4 CROSS SECTION NORFOLK ST
Not To Scale
STA 1+92 TO 1+98
STA 10+16 TO 10+24

CITY OF WEST LINN
22500 SALAMO ROAD
WEST LINN, OREGON 97068
WWW.WESTLINNOREGON.GOV
PHONE: (503) 567-0331
FAX: (503) 650-9041

REGISTERED PROFESSIONAL ENGINEER 87272PE OREGON JAN 08, 2013 LANCE E. CALVERT

EXPIRES: 12/31/2015

CONTRACTOR

NAME: -N/A
ADDRESS: -N/A

PHONE: -N/A
FAX: -N/A

CITY OF WEST LINN
2015 ROAD PROGRAM

NORFOLK DR
FROM FAIRHAVEN DR TO SUNSET AVE

PROJECT NO.: PW-14-16
DESIGNED BY: LCALVERT
DRAWN BY: NBRENNAN

CHECKED BY: LCALVERT
DATE: 5/6/2015

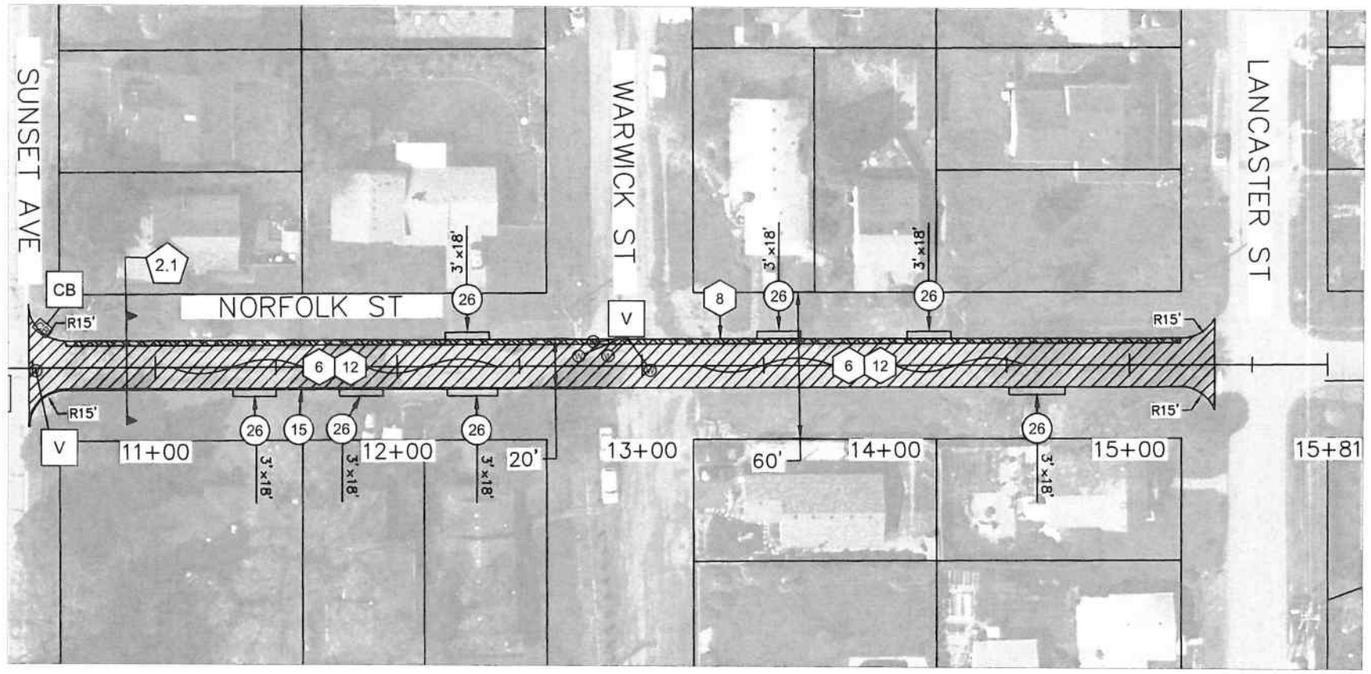
REVISION

DATE	DESCRIPTION

PAVING PLAN

SCALE: 1" = 50' Horizontal

C1.2



NOTE:
1. DRIVEWAY EXCAVATIONS INCLUDED IN REMOVAL OF SURFACINGS

	ITEM	ODOT Specification #	DESCRIPTION	Unit	Estimate
6	6	00310.92d	REMOVAL OF SURFACINGS	SY	1100
8	8	00331.90	8 INCHES SUBGRADE STABILIZATION (WIDENING)	SY	100
9	9	00331.90	8 INCHES SUBGRADE STABILIZATION (SOFT SPOT REPAIR)	SY	60
12	12	00610.90	RECONDITION EXISTING ROADWAY	EA	1
15	15	00480.90	DRAINAGE CURB, AC	LF	244
CB	17	00490.90c	ADJUSTING INLETS	EA	1
V	18	00490.90d	ADJUSTING BOXES	EA	5
23	23	00745.90	LEVEL 2, 3/4 INCH REINFORCED ACP*	TON	126
25	25	00745.90	LEVEL 2, 1/2 INCH FIBER REINFORCED ACP*	TON	125
27	26	00745.90	LEVEL 2, 1/2 INCH ACP (DRIVEWAY CONNECTIONS)	TON	12

0 60 120 Feet

CITY OF WEST LINN
22500 SALAMO ROAD
WEST LINN, OREGON 97068
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FAX: (503) 650-9041

REGISTERED PROFESSIONAL ENGINEER 87272PE OREGON JAN 08, 2013 LANCE E. CALVERT

EXPIRES: 12/31/2015

CONTRACTOR

NAME: -N/A
ADDRESS: -N/A

PHONE: -N/A
FAX: -N/A

CITY OF WEST LINN 2015 ROAD PROGRAM

NORFOLK DRIVE FROM SUNSET AVENUE TO YORK STREET

PROJECT NO.: PW-14-16
DESIGNED BY: LCALVERT
DRAWN BY: NBRENNAN

CHECKED BY: LCALVERT
DATE: 5/6/2015

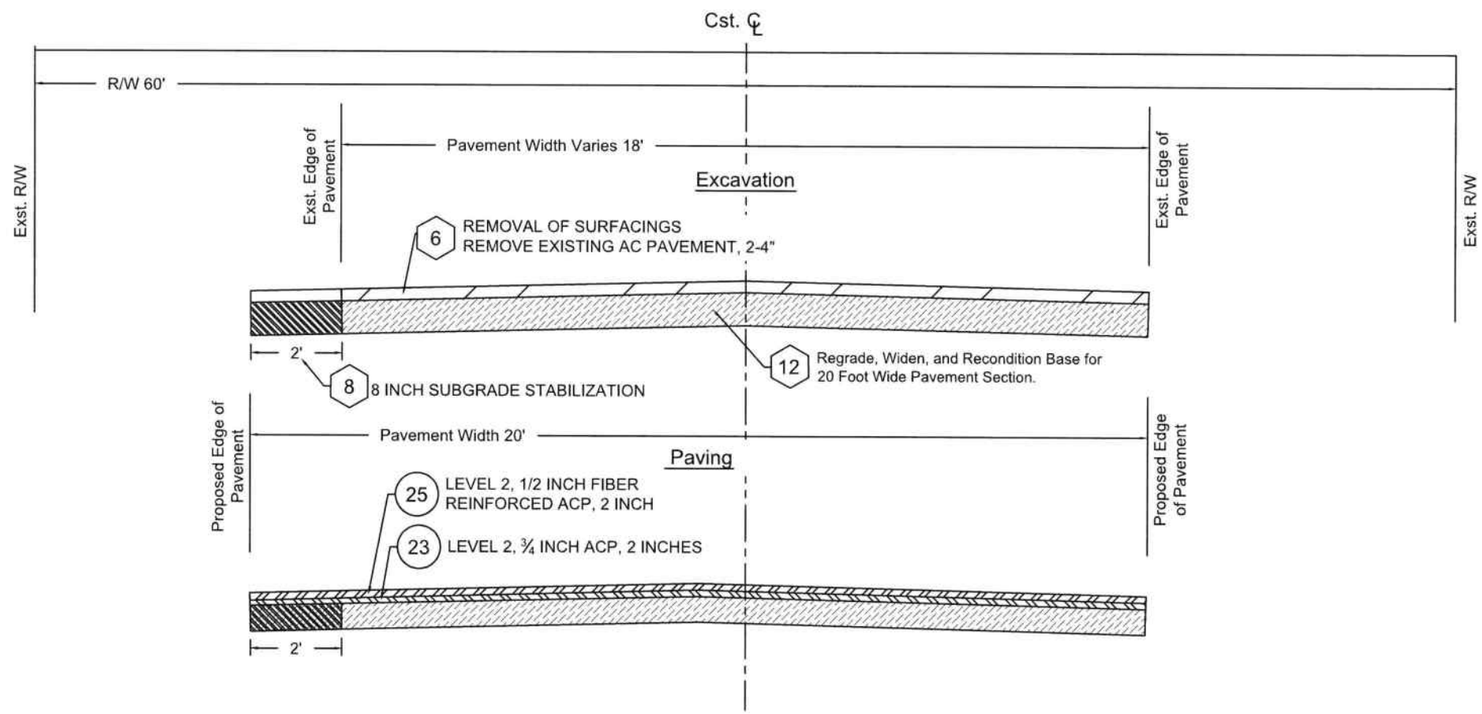
REVISION

DATE	DESCRIPTION

PAVING PLAN

SCALE: 1" = 50' Horizontal

C2.0



2.1 CROSS SECTION NORFOLK ST

Not To Scale

CITY OF WEST LINN
22500 SALAMO ROAD
WEST LINN, OREGON 97068
WWW.WESTLINNOREGON.GOV
PHONE: (503) 567-0331
FAX: (503) 650-9041

REGISTERED PROFESSIONAL ENGINEER 87272PE OREGON JAN 08, 2013 LANCE E. CALVERT

EXPIRES: 12/31/2015

CONTRACTOR

NAME: -N/A
ADDRESS: -N/A

PHONE: -N/A
FAX: -N/A

CITY OF WEST LINN
2015 ROAD PROGRAM

NORFOLK DRIVE
FROM SUNSET AVENUE TO YORK STREET

PROJECT NO.: PW-14-16
DESIGNED BY: LCALVERT
DRAWN BY: NBRENNAN

CHECKED BY: LCALVERT
DATE: 5/6/2015

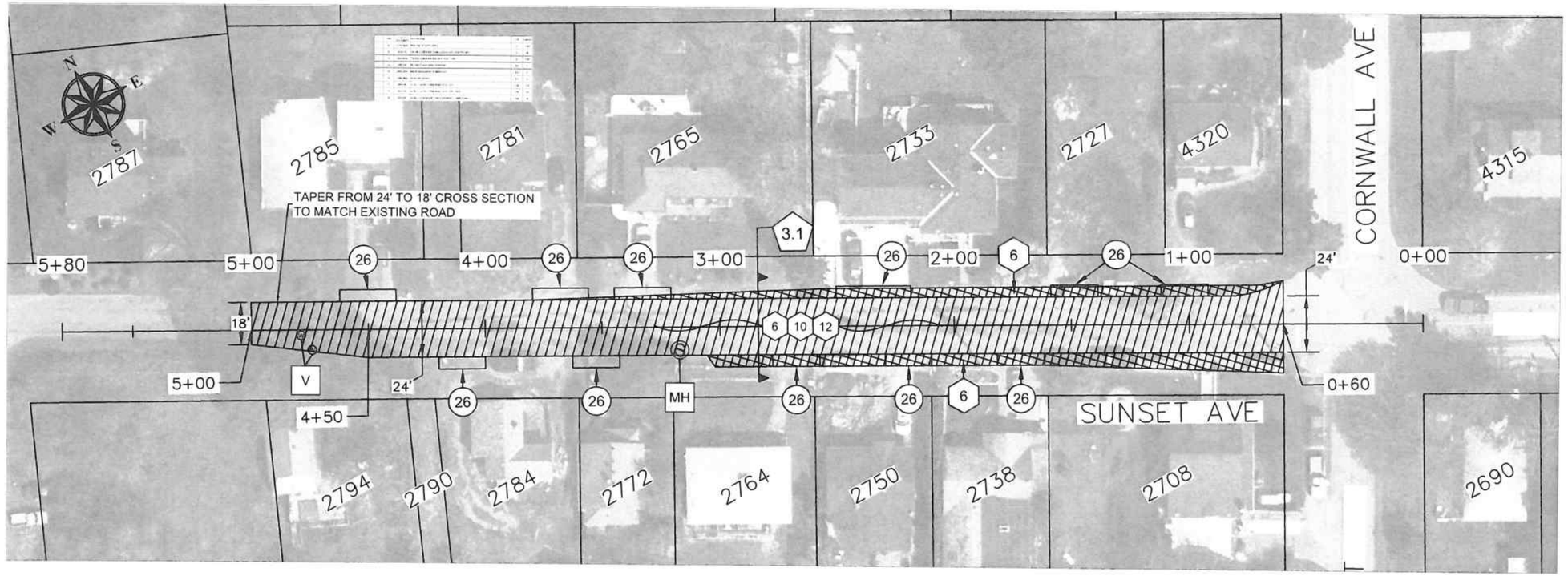
REVISION

DATE	DESCRIPTION

PAVING PLAN

SCALE: 1' = 50' Horizontal

C2.1



NOTE:
1. DRIVEWAY EXCAVATIONS INCLUDED IN REMOVAL OF SURFACINGS

·	ITEM	ODOT Specification #	DESCRIPTION	Unit	Estimate
6	6	00310.92d	REMOVAL OF SURFACINGS	SY	1495
9	9	00331.90	8 INCHES SUBGRADE STABILIZATION (SOFT SPOT REPAIR)	SY	60
10	10	00344.90a	TREATED SUBGRADE 8 INCHES THICK, (CTB)*	SY	1157
12	12	00610.90	RECONDITION EXISTING ROADWAY	EA	1
MH	16	00490.90a	MINOR ADJUSTMENT OF MANHOLES*	EA	1
V	18	00490.90d	ADJUSTING BOXES	EA	2
23	23	00745.90	LEVEL 2, 3/4 INCH REINFORCED ACP*	TON	133
25	25	00745.90	LEVEL 2, 1/2 INCH FIBER REINFORCED ACP*	TON	134
26	26	00745.90	LEVEL 2, 1/2 INCH ACP (DRIVEWAY CONNECTIONS)	TON	23

0 50 100 Feet

City of West Linn

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22500 SALAMO ROAD
WEST LINN, OREGON 97068
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REGISTERED PROFESSIONAL ENGINEER 87272PE OREGON JAN 08, 2013 LANCE E. CALVERT

EXPIRES: 12/31/2015

CONTRACTOR

NAME: -N/A
ADDRESS: -N/A

PHONE: -N/A
FAX: -N/A

CITY OF WEST LINN 2015 ROAD PROGRAM

SUNSET AVE
FROM 2785 SUNSET AVE TO CORNWALL ST

PROJECT NO.: PW-14-16
DESIGNED BY: LCALVERT
DRAWN BY: NBRENNAN

CHECKED BY: LCALVERT
DATE: 5/6/2015

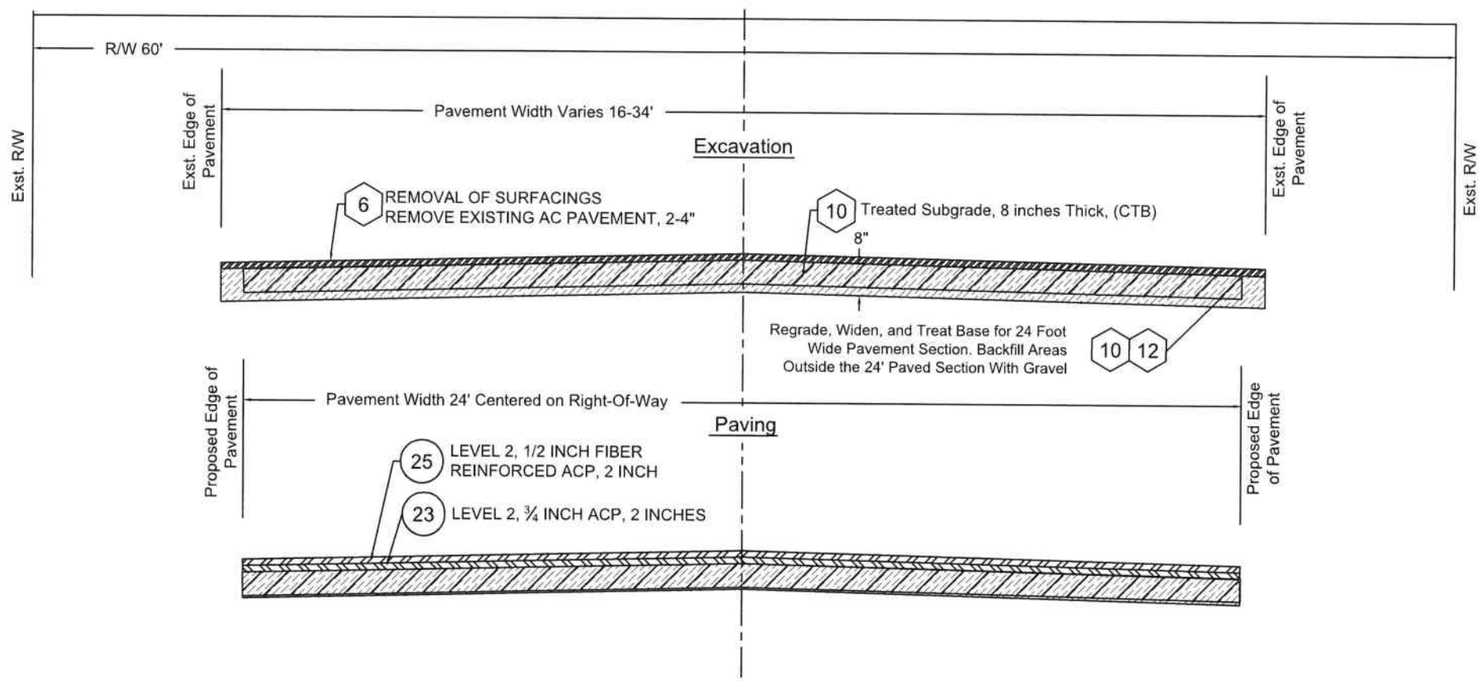
REVISION

DATE	DESCRIPTION

PAVING PLAN

SCALE: 1' = 50' Horizontal

C3.0



3.1 CROSS SECTION SUNSET AVE

Not To Scale

CITY OF WEST LINN
22500 SALAMO ROAD
WEST LINN, OREGON 97068
WWW.WESTLINNOREGON.GOV
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REGISTERED PROFESSIONAL ENGINEER 87272PE OREGON JAN 08, 2013 LANCE E. CALVERT

EXPIRES: 12/31/2015

CONTRACTOR

NAME: -N/A
ADDRESS: -N/A

PHONE: -N/A
FAX: -N/A

CITY OF WEST LINN
2015 ROAD PROGRAM

SUNSET AVE
FROM 2785 SUNSET AVE TO CORNWALL ST

PROJECT NO.: PW-14-16
DESIGNED BY: LCALVERT
DRAWN BY: NBRENNAN

CHECKED BY: LCALVERT
DATE: 5/6/2015

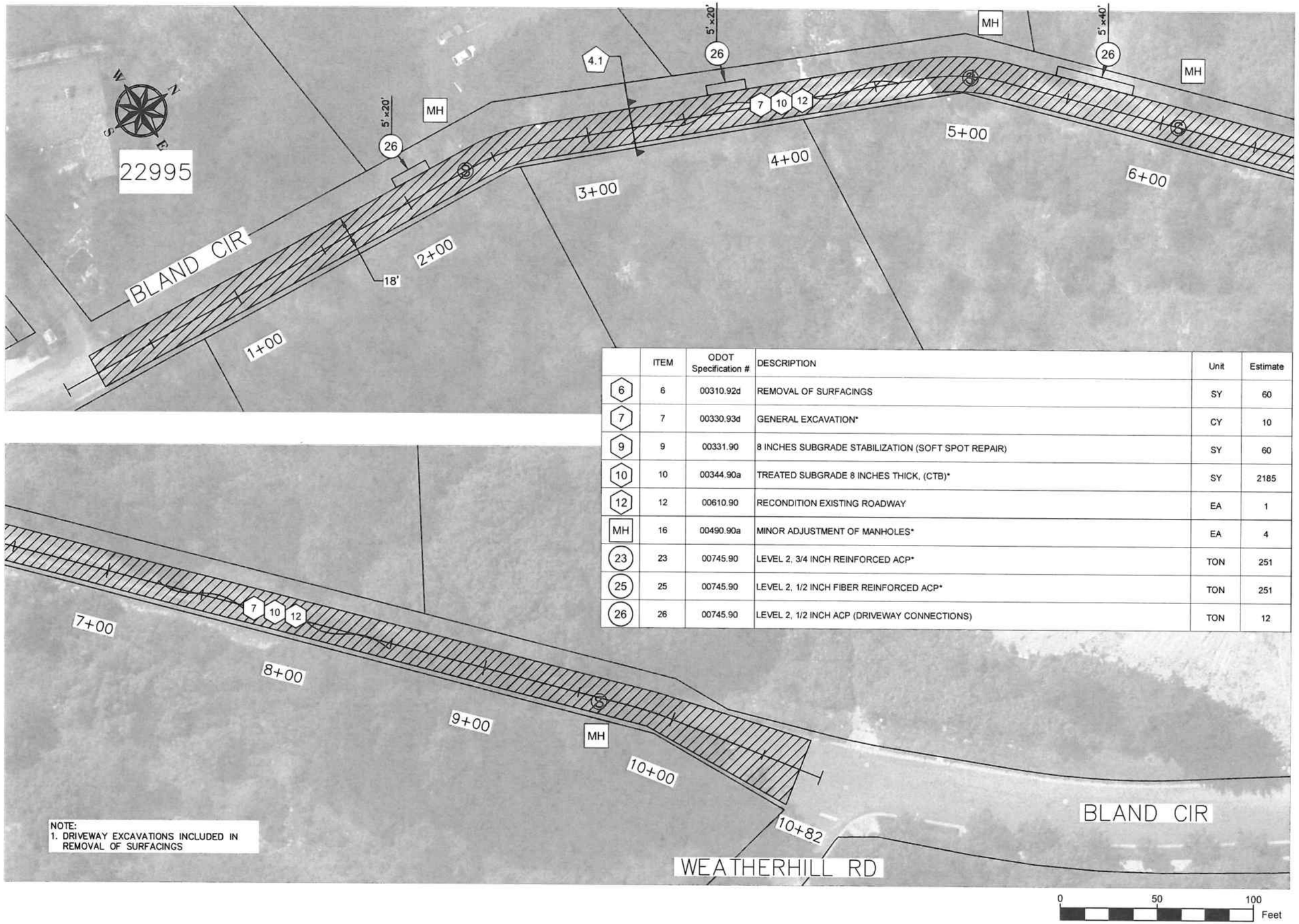
REVISION

DATE	DESCRIPTION

PAVING PLAN

SCALE: 1' = 50' Horizontal

C3.1



	ITEM	ODOT Specification #	DESCRIPTION	Unit	Estimate
6	6	00310.92d	REMOVAL OF SURFACINGS	SY	60
7	7	00330.93d	GENERAL EXCAVATION*	CY	10
9	9	00331.90	8 INCHES SUBGRADE STABILIZATION (SOFT SPOT REPAIR)	SY	60
10	10	00344.90a	TREATED SUBGRADE 8 INCHES THICK, (CTB)*	SY	2185
12	12	00610.90	RECONDITION EXISTING ROADWAY	EA	1
MH	16	00490.90a	MINOR ADJUSTMENT OF MANHOLES*	EA	4
23	23	00745.90	LEVEL 2, 3/4 INCH REINFORCED ACP*	TON	251
25	25	00745.90	LEVEL 2, 1/2 INCH FIBER REINFORCED ACP*	TON	251
26	26	00745.90	LEVEL 2, 1/2 INCH ACP (DRIVEWAY CONNECTIONS)	TON	12

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REGISTERED PROFESSIONAL ENGINEER 87272PE OREGON JAN 08, 2013 LANCE E. CALVERT

EXPIRES: 12/31/2015

CONTRACTOR

NAME: -N/A
ADDRESS: -N/A

PHONE: -N/A
FAX: -N/A

CITY OF WEST LINN 2015 ROAD PROGRAM

BLAND CIRCLE FROM 22995 BLAND CIRCLE TO WEATHERHILL RD

PROJECT NO.: PW-14-16
DESIGNED BY: LCALVERT
DRAWN BY: NBRENNAN

CHECKED BY: LCALVERT
DATE: 5/6/2015

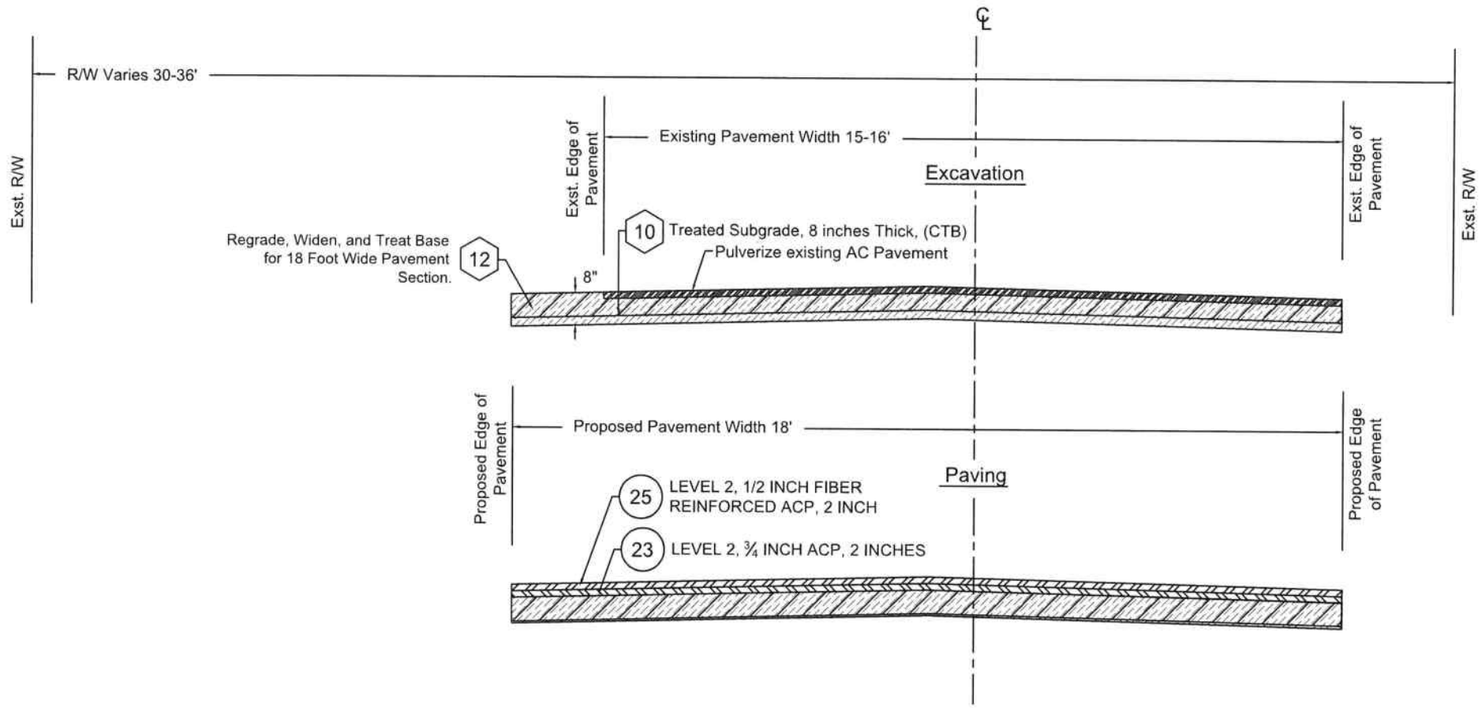
REVISION

DATE	DESCRIPTION

PAVING PLAN

SCALE: 1' = 50' Horizontal

C4.0



4.1 CROSS SECTION BLAND CIRCLE

Not To Scale

City of West Linn

CITY OF WEST LINN
22500 SALAMO ROAD
WEST LINN, OREGON 97068
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REGISTERED PROFESSIONAL ENGINEER 87272PE OREGON JAN. 08, 2013 LANCE E. CALVERT

EXPIRES: 12/31/2015

CONTRACTOR

NAME: -N/A
ADDRESS: -N/A

PHONE: -N/A
FAX: -N/A

CITY OF WEST LINN
2015 ROAD PROGRAM

BLAND CIRCLE FROM
22995 BLAND CIRCLE TO WEATHERHILL RD

PROJECT NO.: PW-14-16
DESIGNED BY: LCALVERT
DRAWN BY: NBRENNAN

CHECKED BY: LCALVERT
DATE: 5/6/2015

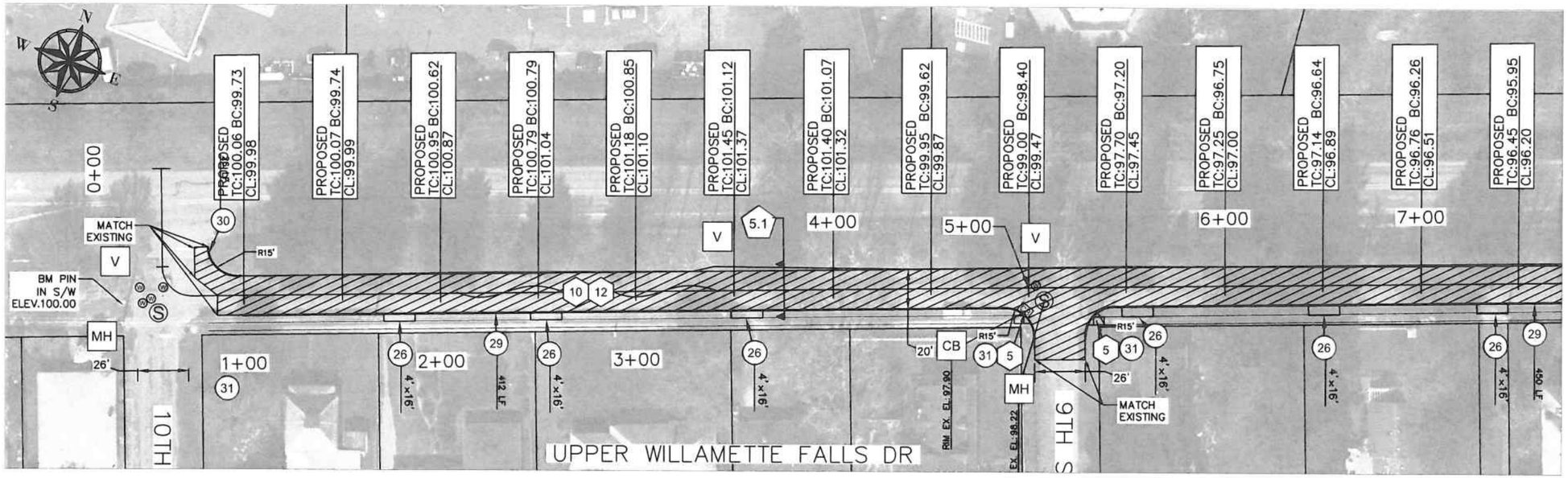
REVISION

DATE	DESCRIPTION

PAVING PLAN

SCALE: 1' = 50' Horizontal

C4.1



NOTE:
1. TYPICAL ADA RAMP DETAIL, SEE WL-507A

	ITEM	ODOT Specification #	DESCRIPTION	Unit	Estimate
5	5	00310.92c	REMOVAL OF WALKS AND DRIVEWAYS	SY	40
6	6	00310.92d	REMOVAL OF SURFACINGS	SY	4450
7	7	00330.93d	GENERAL EXCAVATION*	CY	40
9	9	00331.90	8 INCHES SUBGRADE STABILIZATION (SOFT SPOT REPAIR)	SY	60
10	10	00344.90a	TREATED SUBGRADE 8 INCHES THICK, (CTB)*	SY	4450
12	12	00610.90	RECONDITION EXISTING ROADWAY	EA	1
MH	16	00490.90a	MINOR ADJUSTMENT OF MANHOLES*	EA	5
CB	17	00490.90c	ADJUSTING INLETS	EA	4
V	18	00490.90d	ADJUSTING BOXES	EA	11
23	23	00745.90	LEVEL 2, 3/4 INCH REINFORCED ACP*	TON	520
25	25	00745.90	LEVEL 2, 1/2 INCH FIBER REINFORCED ACP*	TON	520
26	26	00745.90	LEVEL 2, 1/2 INCH ACP (DRIVEWAY CONNECTIONS)	TON	23
29	29	00759.90a	CONCRETE CURBS, CURB AND GUTTER*	LF	1812
30	30	00759.90	ADA CURB RAMP*	EA	7
31	31	00759.90e	CONCRETE WALKS, WL-508B*	SF	120

City of West Linn

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REGISTERED PROFESSIONAL ENGINEER 87272PE OREGON JAN 08, 2013 LANCE E. CALVERT

EXPIRES: 12/31/2015

CONTRACTOR

NAME: -N/A
ADDRESS: -N/A

PHONE: -N/A
FAX: -N/A

CITY OF WEST LINN
2015 ROAD PROGRAM

UPPER WILLAMETTE FALLS DR
FROM 10TH ST TO 6TH ST

PROJECT NO.: PW-14-16
DESIGNED BY: LCALVERT
DRAWN BY: NBRENNAN

CHECKED BY: LCALVERT
DATE: 5/6/2015

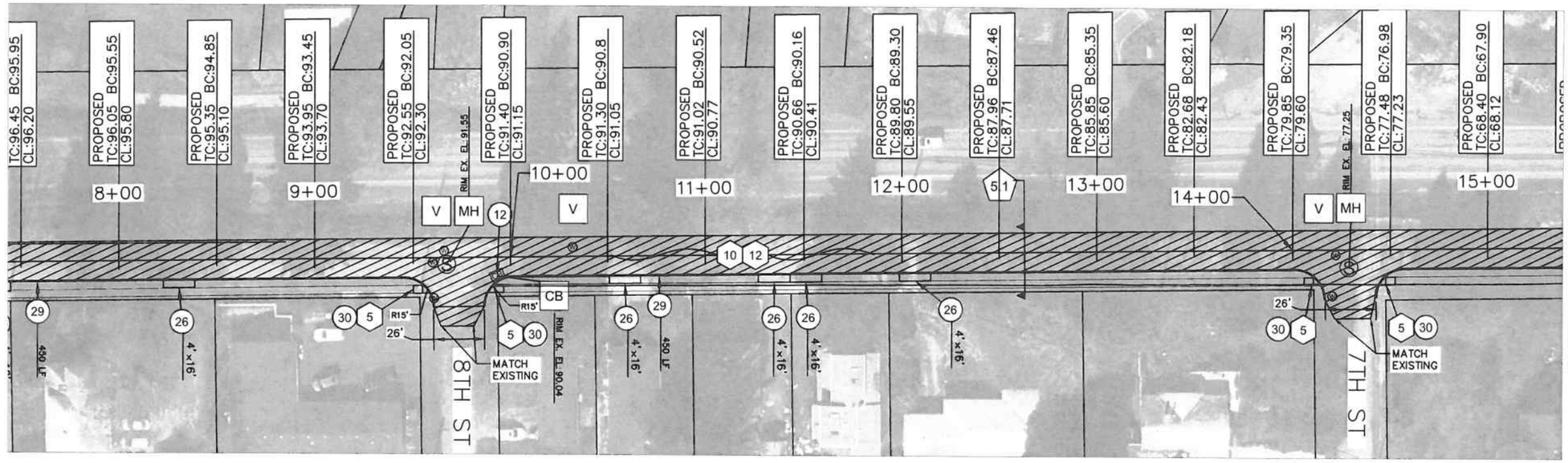
REVISION

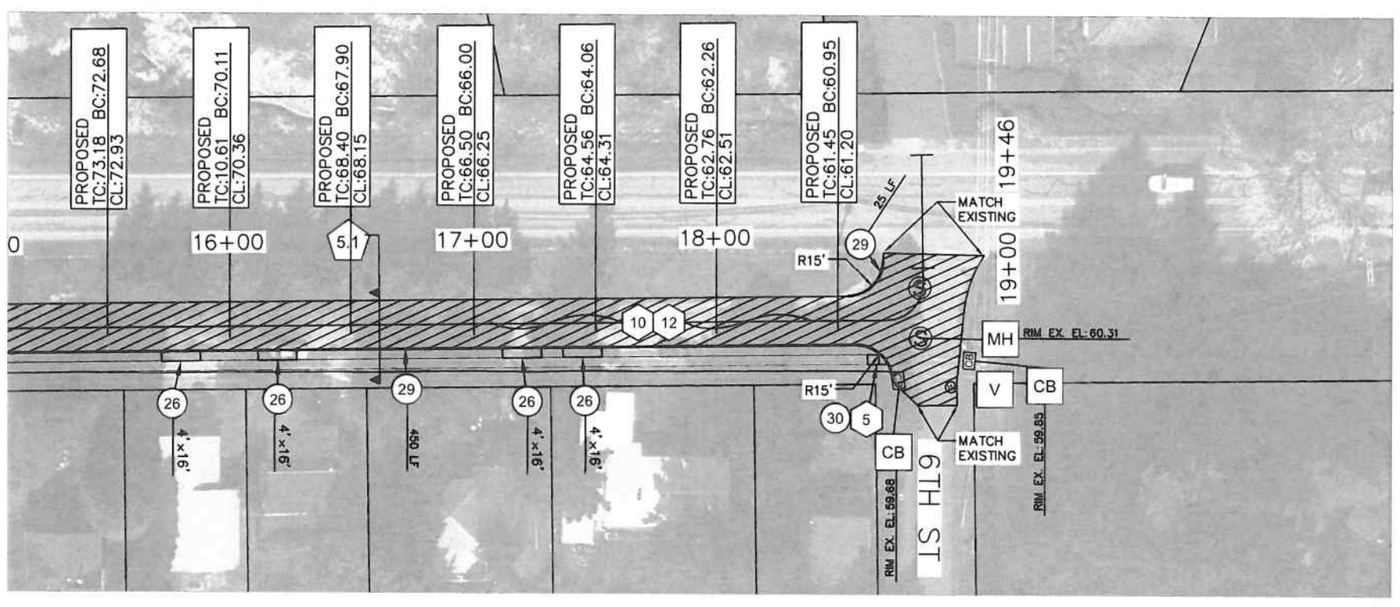
DATE	DESCRIPTION

PAVING PLAN

SCALE: 1" = 50' Horizontal

C5.0





0 60 120 Feet

City of West Linn

CITY OF WEST LINN
22500 SALAMO ROAD
WEST LINN, OREGON 97068
WWW.WESTLINNOREGON.GOV
PHONE: (503) 567-0331
FAX: (503) 650-9041

REGISTERED PROFESSIONAL ENGINEER 87272PE OREGON JAN 08, 2014 LANCE E. CALVERT

EXPIRES: 12/31/2015

CONTRACTOR

NAME: -N/A
ADDRESS: -N/A

PHONE: -N/A
FAX: -N/A

CITY OF WEST LINN 2015 ROAD PROGRAM

UPPER WILLAMETTE FALLS DR FROM 10TH ST TO 6TH ST

PROJECT NO.: PW-14-16
DESIGNED BY: LCALVERT
DRAWN BY: NBRENNAN

CHECKED BY: LCALVERT
DATE: 5/6/2015

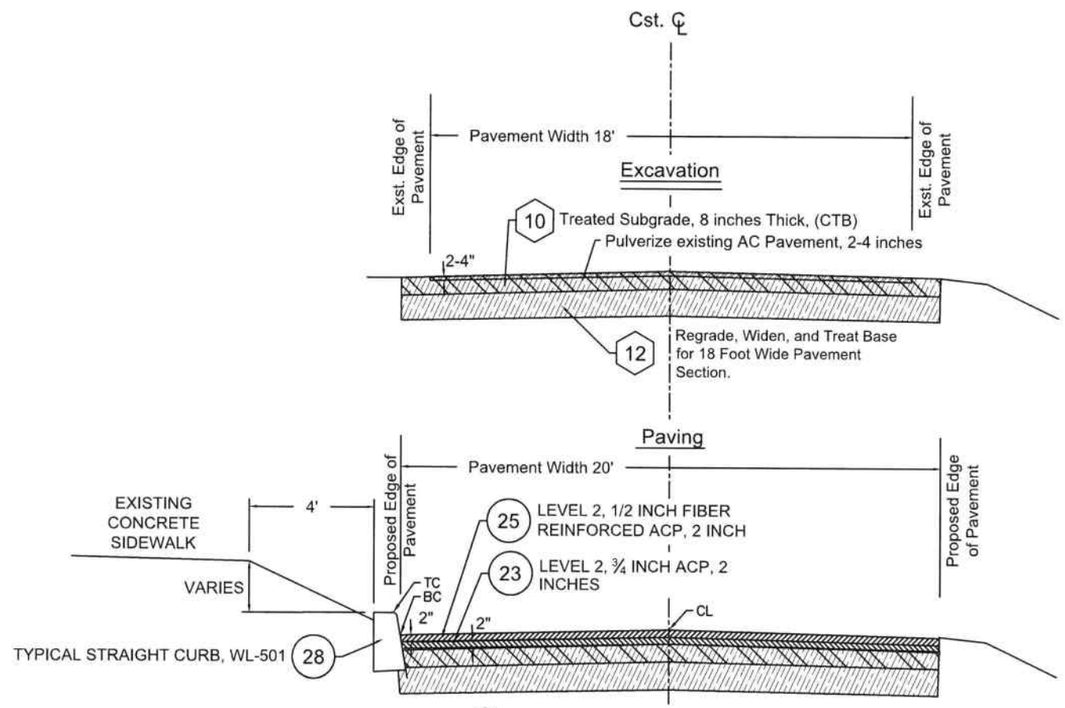
REVISION

DATE	DESCRIPTION

PAVING PLAN

SCALE: 1' = 50' Horizontal

C5.1



D5.1 CROSS SECTION UPPER WILLAMETTE FALLS DR

Not To Scale

City of West Linn

CITY OF WEST LINN
22500 SALAMO ROAD
WEST LINN, OREGON 97068
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PHONE: (503) 567-0331
FAX: (503) 650-9041

REGISTERED PROFESSIONAL ENGINEER 87273PE OREGON JAN 08, 2013 LANCE E. CALVERT

EXPIRES: 12/31/2015

CONTRACTOR

NAME: -N/A
ADDRESS: -N/A

PHONE: -N/A
FAX: -N/A

CITY OF WEST LINN 2015 ROAD PROGRAM

UPPER WILLAMETTE FALLS DR
FROM 10TH ST TO 6TH ST

PROJECT NO.: PW-14-16
DESIGNED BY: LCALVERT
DRAWN BY: NBRENNAN

CHECKED BY: LCALVERT
DATE: 5/6/2015

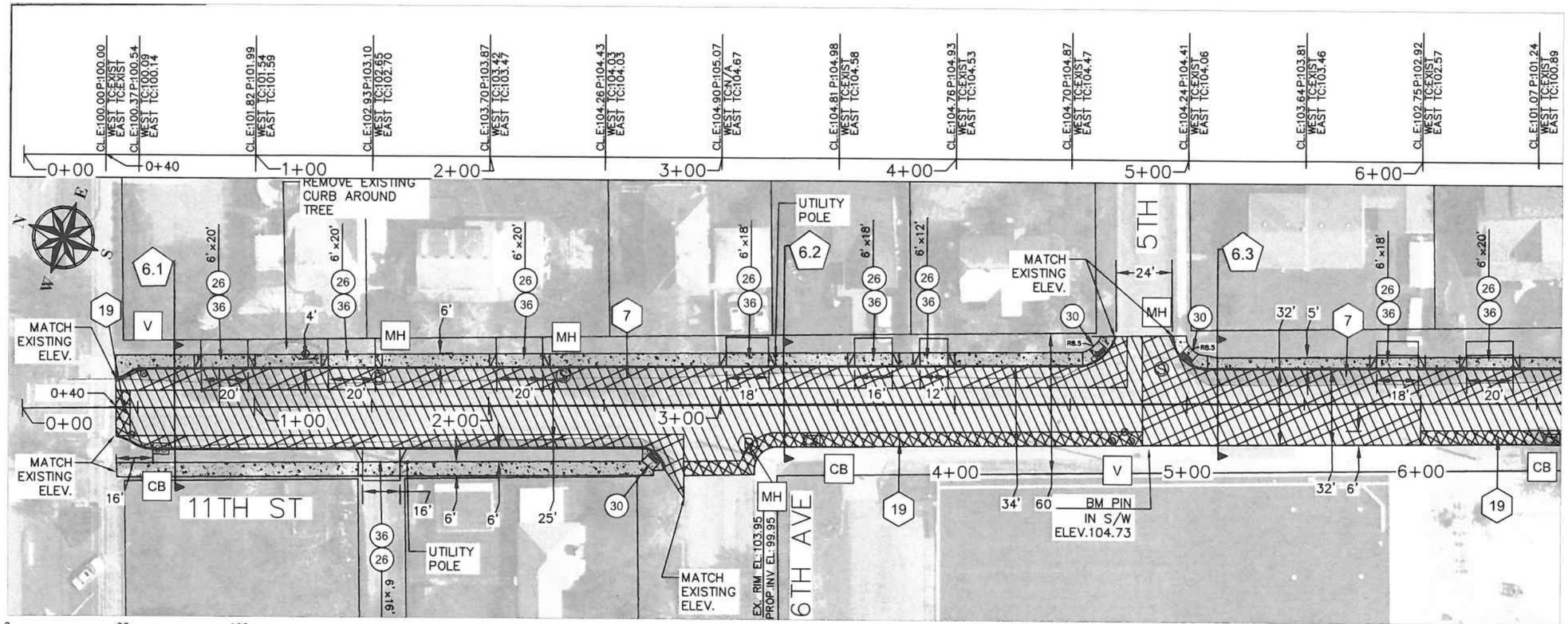
REVISION

DATE	DESCRIPTION

PAVING PLAN

SCALE: 1' = 50' Horizontal

C5.2



CL=PROPOSED CENTER LINE
E= EXISTING ELEVATION
P= PROPOSED FINISH ELEVATION
TC= TOP OF CURB

	ITEM	ODOT Specification #	DESCRIPTION	Unit	Estimate
4	4	00310.92b	REMOVAL OF CURBS	LF	60
6	6	00310.92d	REMOVAL OF SURFACINGS	SY	1260
7	7	00330.93d	GENERAL EXCAVATION*	CY	120
8	8	00331.90	8 INCHES SUBGRADE STABILIZATION (WIDENING)	SY	1260
9	9	00331.90	8 INCHES SUBGRADE STABILIZATION (SOFT SPOT REPAIR)	SY	60
12	12	00610.90	RECONDITION EXISTING ROADWAY	EA	1
MH	16	00490.90a	MINOR ADJUSTMENT OF MANHOLES*	EA	6
CB	17	00490.90c	ADJUSTING INLETS	EA	7
V	18	00490.90d	ADJUSTING BOXES	EA	12

19	19	00620.90	COLD PLANE PAVEMENT REMOVAL, 0 TO 2 INCHES DEEP*	SY	370
22	22	00730.90	EMULSIFIED ASPHALT FOR TACK COAT*	TON	1
23	23	00745.90	LEVEL 2, 3/4 INCH REINFORCED ACP*	TON	150
25	25	00745.90	LEVEL 2, 1/2 INCH FIBER REINFORCED ACP*	TON	390
26	26	00745.90	LEVEL 2, 1/2 INCH ACP (DRIVEWAY CONNECTIONS)	TON	20
29	29	00759.90a	CONCRETE CURBS, CURB AND GUTTER*	LF	915
30	30	00759.90	ADA CURB RAMP*	EA	3
31	31	00759.90e	CONCRETE WALKS, WL-508B*	SF	6080
36	39	SP2*	CONCRETE DRIVEWAY, 6 INCHES DEPTH WL-503B	EA	11

City of West Linn

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FAX: (503) 650-9041

REGISTERED PROFESSIONAL ENGINEER 87272PE OREGON JAN 08, 2013 LANCE E. CALVERT

EXPIRES: 12/31/2015

CONTRACTOR

NAME: -N/A
ADDRESS: -N/A

PHONE: -N/A
FAX: -N/A

CITY OF WEST LINN 2015 ROAD PROGRAM

11TH ST FROM 4TH AVE TO WILLAMETTE FALLS DR

PROJECT NO.: PW-14-16
DESIGNED BY: LCALVERT
DRAWN BY: NBRENNAN

CHECKED BY: LCALVERT
DATE: 5/6/2015

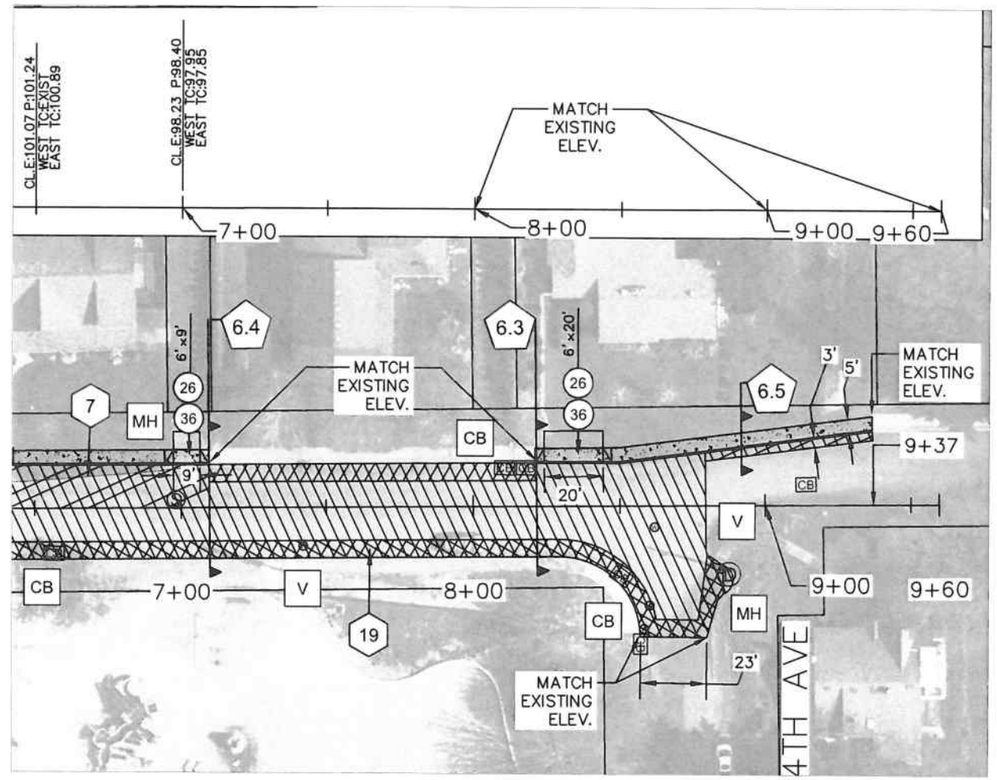
REVISION

DATE	DESCRIPTION

PAVING PLAN

SCALE: 1' = 50' Horizontal

C6.0



City of West Linn

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REGISTERED PROFESSIONAL ENGINEER 87272PE OREGON JAN 08, 2014 LANCE E. CALVERT

EXPIRES: 12/31/2015

CONTRACTOR

NAME: -N/A
ADDRESS: -N/A

PHONE: -N/A
FAX: -N/A

CITY OF WEST LINN 2015 ROAD PROGRAM

11TH ST FROM 4TH AVE TO WILLAMETTE FALLS DR

PROJECT NO.: PW-14-16
DESIGNED BY: LCALVERT
DRAWN BY: NBRENNAN

CHECKED BY: LCALVERT
DATE: 5/6/2015

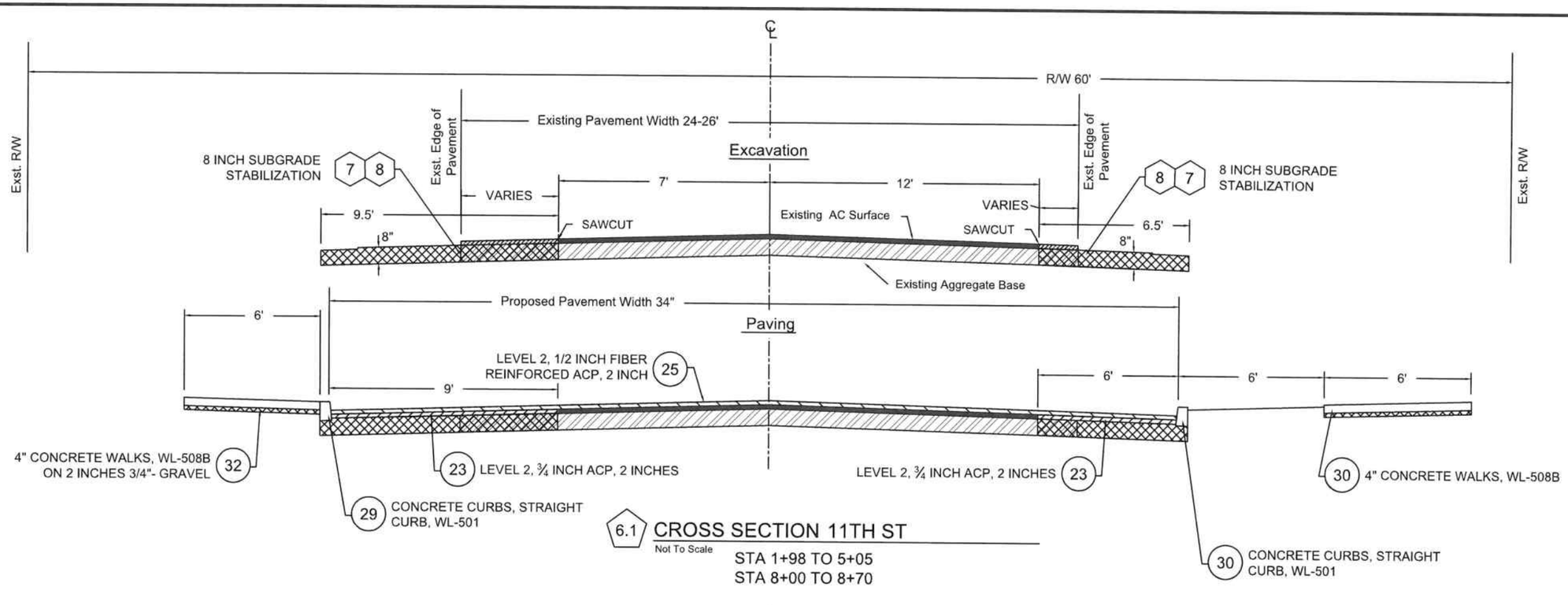
REVISION

DATE	DESCRIPTION

PAVING PLAN

SCALE: 1' = 50' Horizontal

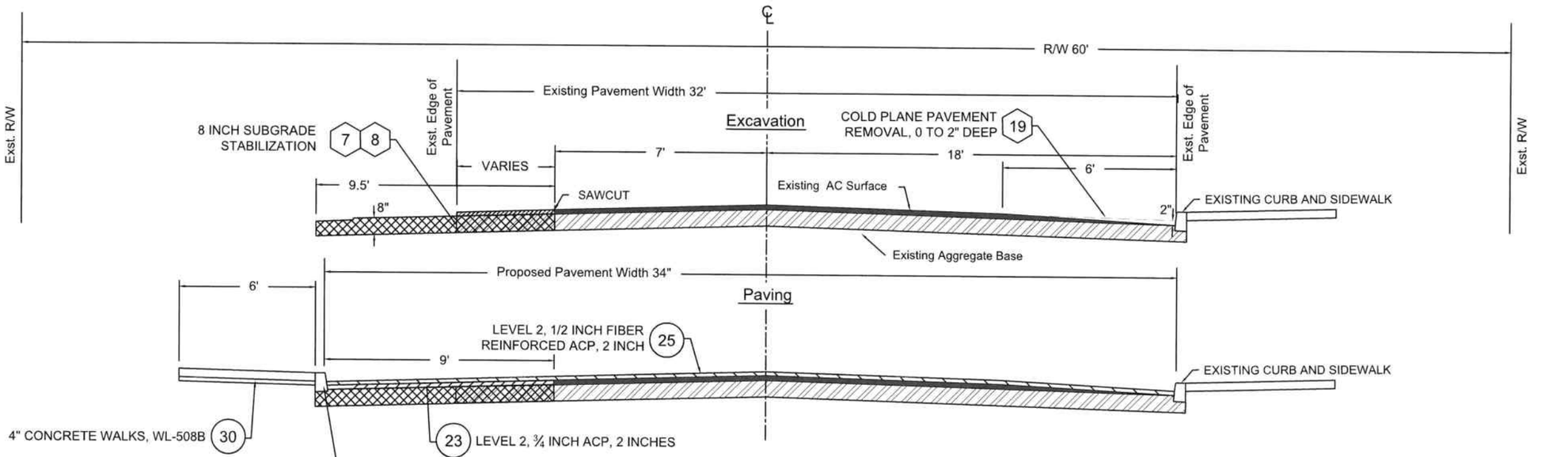
C6.1



6.1 CROSS SECTION 11TH ST

Not To Scale

STA 1+98 TO 5+05
STA 8+00 TO 8+70



6.2 CROSS SECTION 11TH ST

Not To Scale

STA 1+98 TO 5+05
STA 8+00 TO 8+70

CITY OF WEST LINN
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REGISTERED PROFESSIONAL ENGINEER 87272PE OREGON JAN 08, 2013 LANCE E. CALVERT

EXPIRES: 12/31/2015

CONTRACTOR

NAME: -N/A
ADDRESS: -N/A

PHONE: -N/A
FAX: -N/A

CITY OF WEST LINN 2015 ROAD PROGRAM

11TH ST
FROM 4TH AVE TO WILLAMETTE FALLS DR

PROJECT NO.: PW-14-16
DESIGNED BY: LCALVERT
DRAWN BY: NBRENNAN

CHECKED BY: LCALVERT
DATE: 5/6/2015

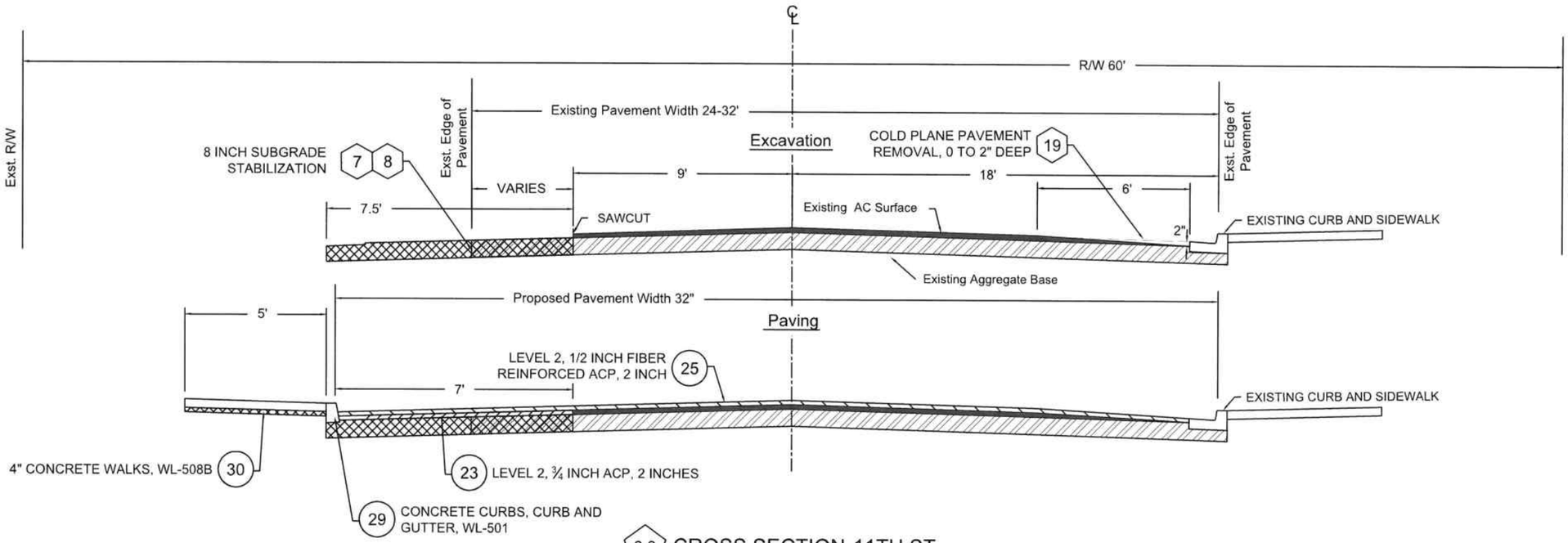
REVISION

DATE	DESCRIPTION

PAVING DETAILS

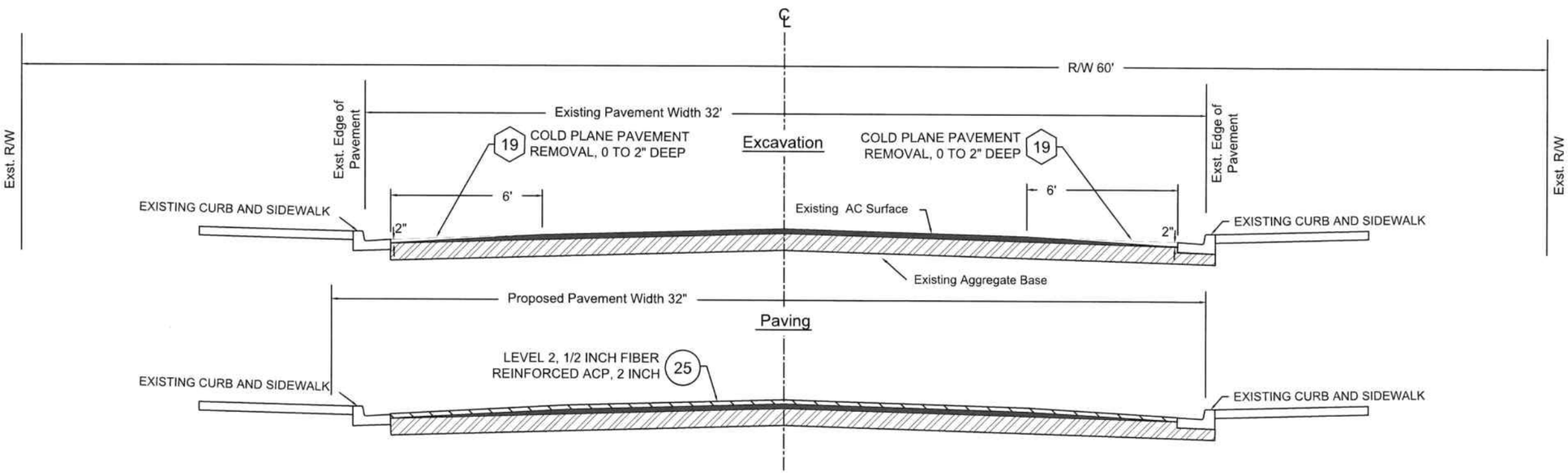
SCALE: 1' = 50' Horizontal

C6.2



6.3 CROSS SECTION 11TH ST

Not To Scale



6.4 CROSS SECTION 11TH ST

Not To Scale

City of West Linn

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WEST LINN, OREGON 97068
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PHONE: (503) 567-0331
FAX: (503) 650-9041

REGISTERED PROFESSIONAL ENGINEER 87272PE OREGON JAN 08, 2013 LANCE E. CALVERT

EXPIRES: 12/31/2015

CONTRACTOR

NAME: -N/A
ADDRESS: -N/A

PHONE: -N/A
FAX: -N/A

CITY OF WEST LINN
2015 ROAD PROGRAM

11TH ST
FROM 4TH AVE TO WILLAMETTE FALLS DR

PROJECT NO.: PW-14-16
DESIGNED BY: LCALVERT
DRAWN BY: NBRENNAN

CHECKED BY: LCALVERT
DATE: 5/6/2015

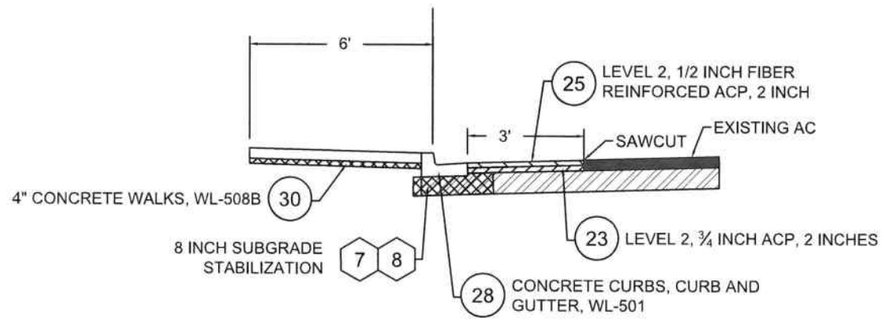
REVISION

DATE	DESCRIPTION

PAVING PLAN

SCALE: 1" = 50' Horizontal

C6.3



6.5 CROSS SECTION 11TH ST

Not To Scale

CITY OF WEST LINN
22500 SALAMO ROAD
WEST LINN, OREGON 97068
WWW.WESTLINNOREGON.GOV
PHONE: (503) 567-0331
FAX: (503) 650-9041

REGISTERED PROFESSIONAL ENGINEER 87272PE OREGON JAN 08, 2013 LANCE E. CALVERT

EXPIRES: 12/31/2015

CONTRACTOR

NAME: -N/A
ADDRESS: -N/A

PHONE: -N/A
FAX: -N/A

CITY OF WEST LINN
2015 ROAD PROGRAM

11TH ST
FROM 4TH AVE TO WILLAMETTE FALLS DR

PROJECT NO.: PW-14-16
DESIGNED BY: LCALVERT
DRAWN BY: NBRENNAN

CHECKED BY: LCALVERT
DATE: 5/6/2015

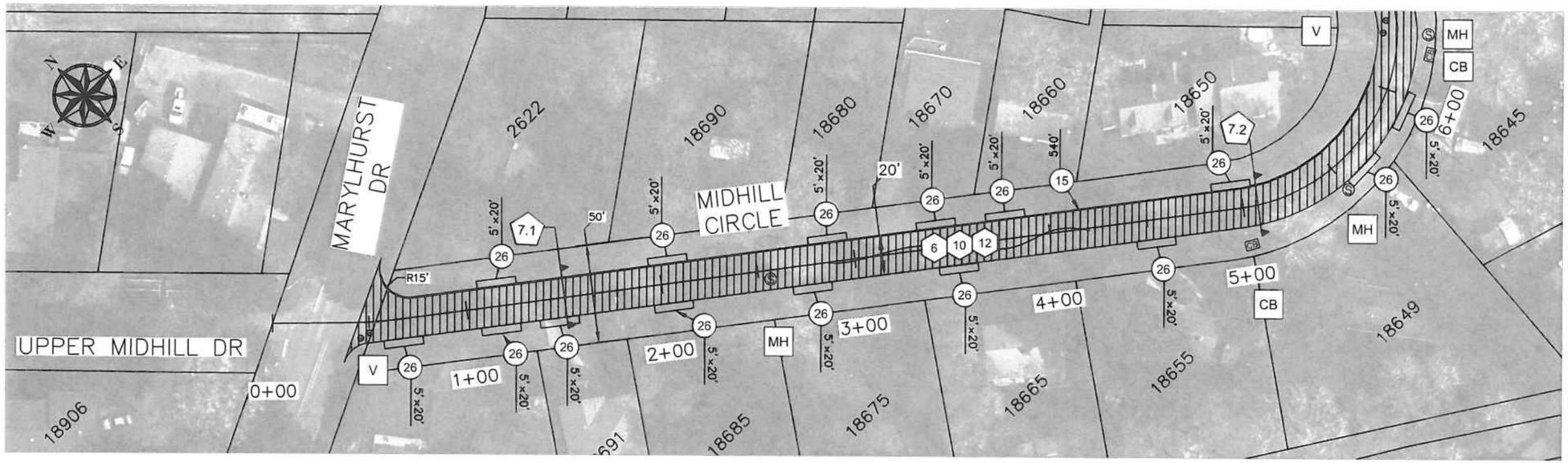
REVISION

DATE	DESCRIPTION

PAVING PLAN

SCALE: 1' = 50' Horizontal

C6.4



0 50 100 Feet

	ITEM	ODOT Specification #	DESCRIPTION	Unit	Estimate
6	6	00310.92d	REMOVAL OF SURFACINGS	SY	2467
7	7	00330.93d	GENERAL EXCAVATION*	CY	40
9	9	00331.90	8 INCHES SUBGRADE STABILIZATION (SOFT SPOT REPAIR)	SY	60
10	10	00344.90a	TREATED SUBGRADE 8 INCHES THICK, (CTB)*	SY	2467
12	12	00610.90	RECONDITION EXISTING ROADWAY	EA	1
15	15	00480.90	DRAINAGE CURB, AC	LF	1100
16	16	00490.90a	MINOR ADJUSTMENT OF MANHOLES*	EA	5
MH	17	00490.90c	ADJUSTING INLETS	EA	6
CB	18	00490.90d	ADJUSTING BOXES	EA	3
23	23	00745.90	LEVEL 2, 3/4 INCH REINFORCED ACP*	TON	284
25	25	00745.90	LEVEL 2, 1/2 INCH FIBER REINFORCED ACP*	TON	284
26	26	00745.90	LEVEL 2, 1/2 INCH ACP (DRIVEWAY CONNECTIONS)	TON	38

City of West Linn

CITY OF WEST LINN
22500 SALAMO ROAD
WEST LINN, OREGON 97068
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FAX: (503) 650-9041

REGISTERED PROFESSIONAL ENGINEER 87272PE OREGON JAN. 08, 2013 LANCE E. CALVERT

EXPIRES: 12/31/2015

CONTRACTOR

NAME: -N/A
ADDRESS: -N/A

PHONE: -N/A
FAX: -N/A

CITY OF WEST LINN 2015 ROAD PROGRAM

MIDHILL CIRCLE
FROM MARYLHURST DR (2671) TO (2615)

PROJECT NO.: PW-14-16
DESIGNED BY: LCALVERT
DRAWN BY: NBRENNAN

CHECKED BY: LCALVERT
DATE: 5/6/2015

REVISION

DATE	DESCRIPTION

PAVING PLAN

SCALE: 1" = 50' Horizontal

C7.0

City of West Linn

CITY OF WEST LINN
22500 SALAMO ROAD
WEST LINN, OREGON 97068
WWW.WESTLINNOREGON.GOV
PHONE: (503) 567-0331
FAX: (503) 650-9041

REGISTERED PROFESSIONAL ENGINEER
87272PE
OREGON
JAN 08, 2015
LANCE E. CALVERT

EXPIRES: 12/31/2015

CONTRACTOR

NAME: -N/A
ADDRESS: -N/A

PHONE: -N/A
FAX: -N/A

CITY OF WEST LINN 2015 ROAD PROGRAM

MIDHILL CIRCLE
FROM MARYLHURST DR (2671) TO (2615)

PROJECT NO.: PW-14-16
DESIGNED BY: LCALVERT
DRAWN BY: NBRENNAN

CHECKED BY: LCALVERT
DATE: 5/6/2015

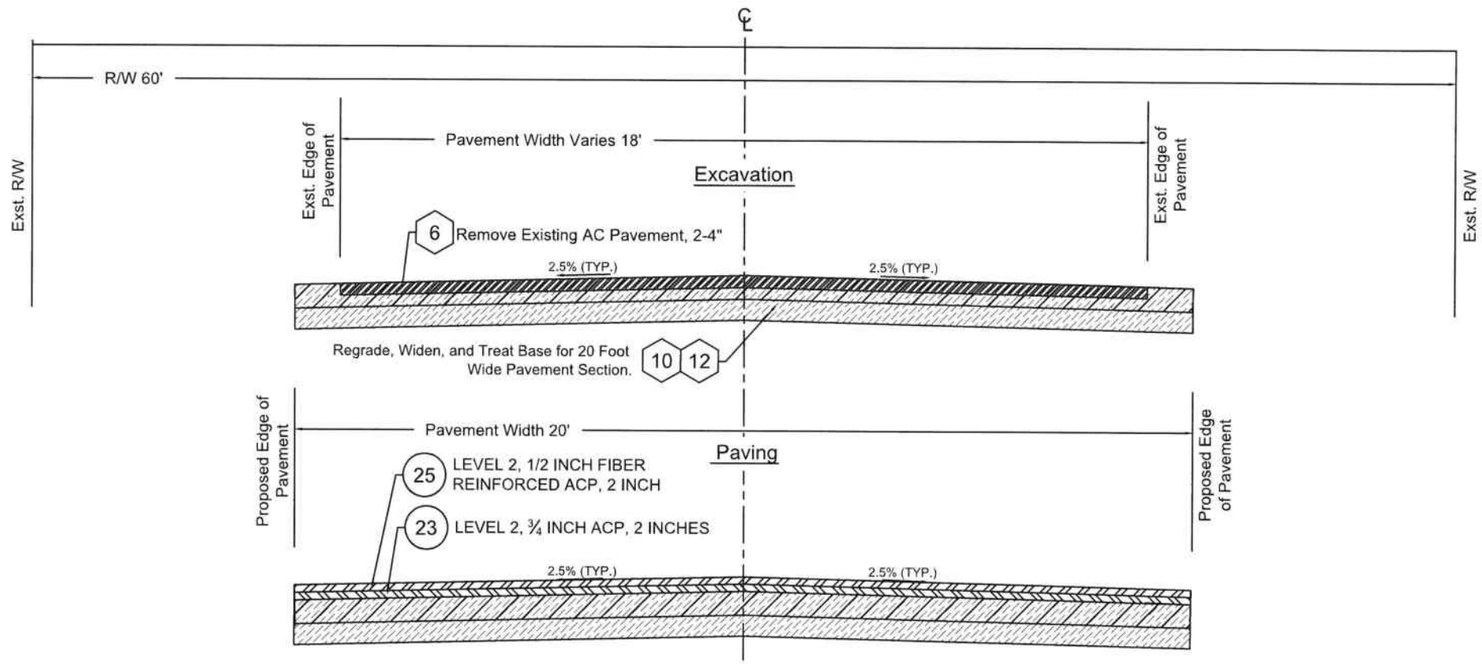
REVISION

DATE	DESCRIPTION

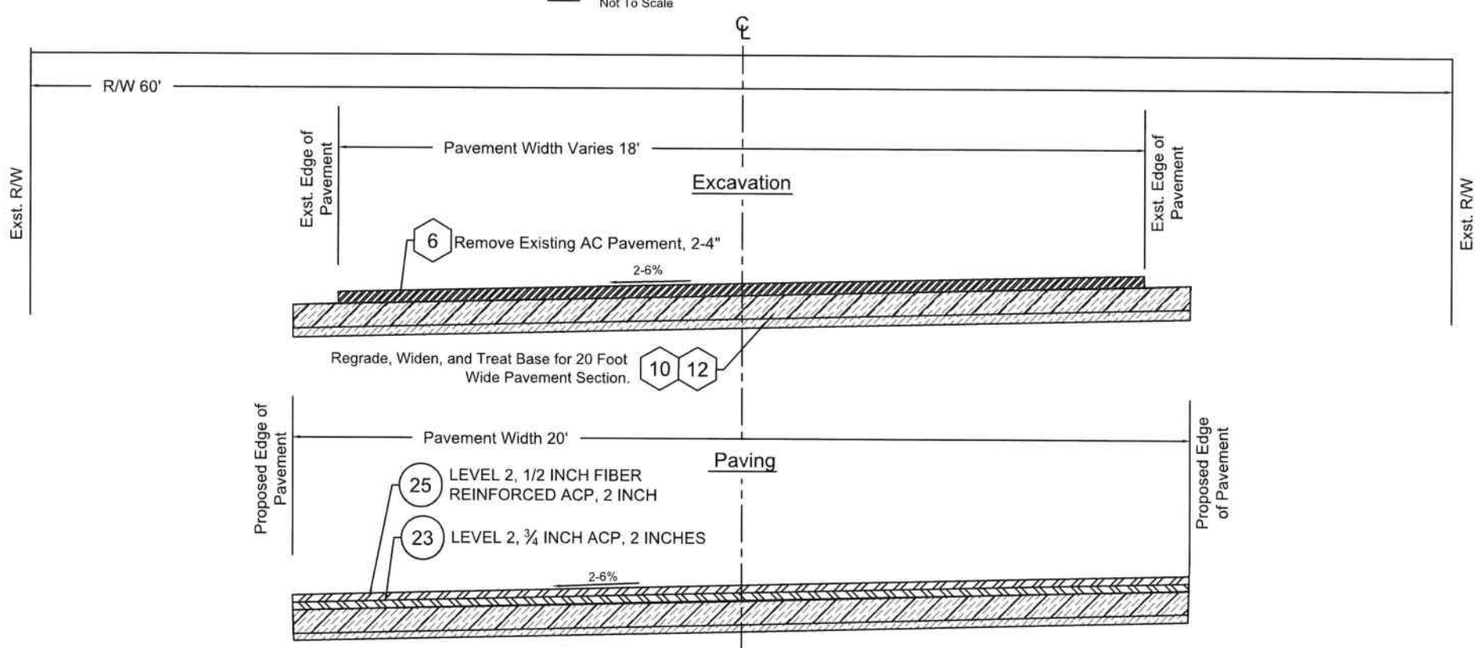
PAVING PLAN

SCALE: 1" = 50' Horizontal

C7.1



7.1 CROSS SECTION LOWER MIDHILL DR
Not To Scale



7.2 CROSS SECTION LOWER MIDHILL DR
Not To Scale

City of West Linn

CITY OF WEST LINN
22500 SALAMO ROAD
WEST LINN, OREGON 97068
WWW.WESTLINNOREGON.GOV
PHONE: (503) 567-0331
FAX: (503) 650-9041

REGISTERED PROFESSIONAL ENGINEER 87272PE OREGON JAN 08, 2013 LANCE E. CALVERT

EXPIRES: 12/31/2015

CONTRACTOR

NAME: -N/A
ADDRESS: -N/A

PHONE: -N/A
FAX: -N/A

CITY OF WEST LINN
2015 ROAD PROGRAM

MIDHILL CIRCLE
FROM MARYLHURST DR (2671) TO (2615)

PROJECT NO.: PW-14-16
DESIGNED BY: LCALVERT
DRAWN BY: NBRENNAN

CHECKED BY: LCALVERT
DATE: 5/6/2015

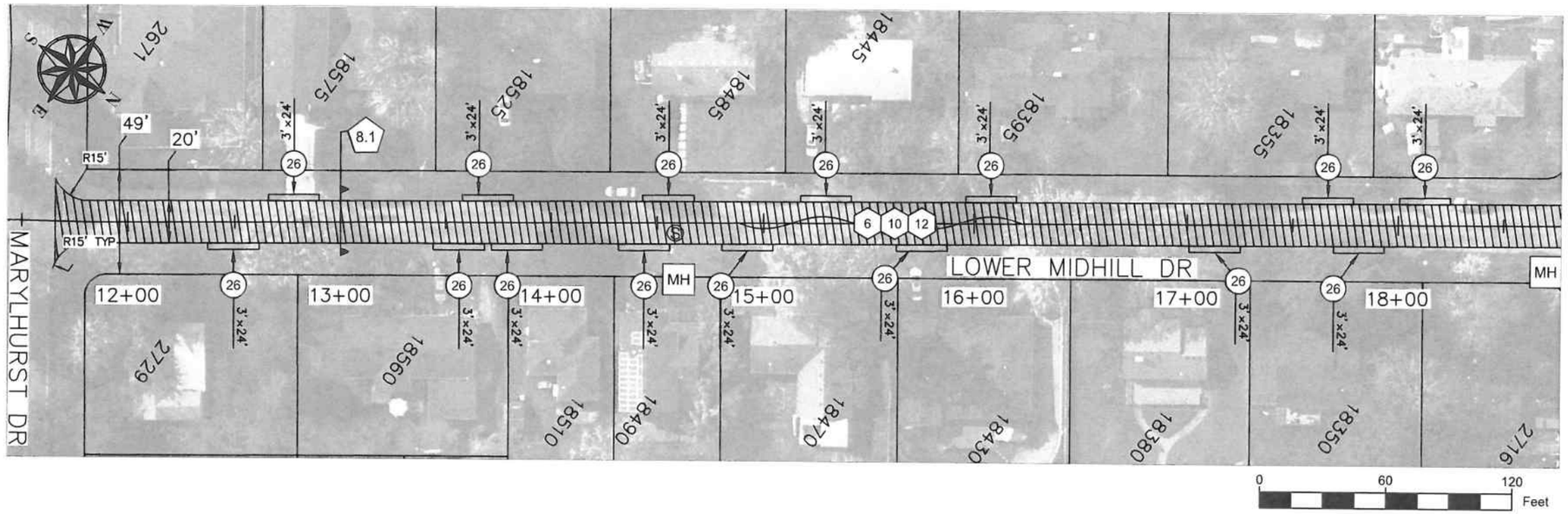
REVISION

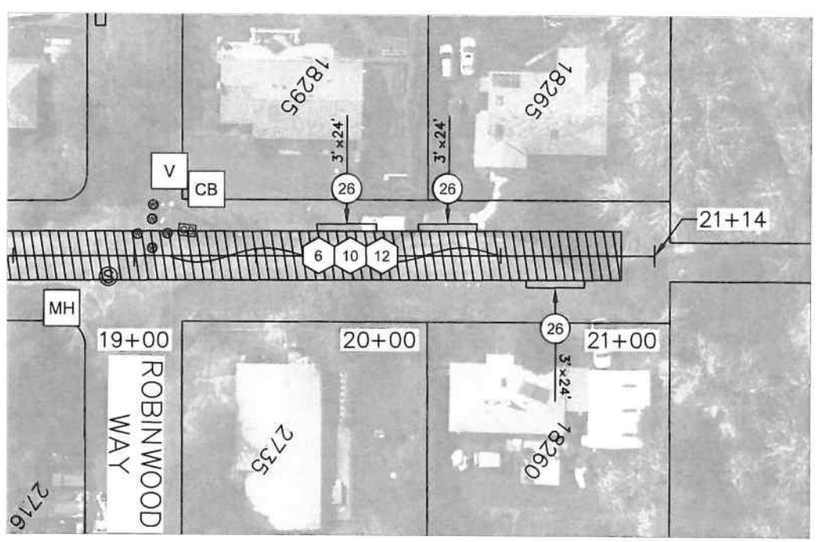
DATE	DESCRIPTION

PAVING PLAN

SCALE: 1' = 50' Horizontal

C7.2





	ITEM	ODOT Specification #	DESCRIPTION	Unit	Estimate
6	6	00310.92d	REMOVAL OF SURFACINGS	SY	2046
9	9	00331.90	8 INCHES SUBGRADE STABILIZATION (SOFT SPOT REPAIR)	SY	60
10	10	00344.90a	TREATED SUBGRADE 8 INCHES THICK, (CTB)*	SY	2046
12	12	00610.90	RECONDITION EXISTING ROADWAY	EA	1
MH	16	00490.90a	MINOR ADJUSTMENT OF MANHOLES*	EA	2
V	18	00490.90d	ADJUSTING BOXES	EA	3
23	23	00745.90	LEVEL 2, 3/4 INCH REINFORCED ACP*	TON	235
25	25	00745.90	LEVEL 2, 1/2 INCH FIBER REINFORCED ACP*	TON	235
26	26	00745.90	LEVEL 2, 1/2 INCH ACP (DRIVEWAY CONNECTIONS)	TON	29

City of West Linn

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22500 SALAMO ROAD
WEST LINN, OREGON 97068
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FAX: (503) 650-9041

REGISTERED PROFESSIONAL ENGINEER 87272PE OREGON JAN 08, 2013 LANCE E. CALVERT

EXPIRES: 12/31/2015

CONTRACTOR

NAME: -N/A
ADDRESS: -N/A

PHONE: -N/A
FAX: -N/A

CITY OF WEST LINN 2015 ROAD PROGRAM

LOWER MIDHILL DR FROM MARYLHURST DR TO DEAD END

PROJECT NO.: PW-14-16
DESIGNED BY: LCALVERT
DRAWN BY: NBRENNAN

CHECKED BY: LCALVERT
DATE: 5/6/2015

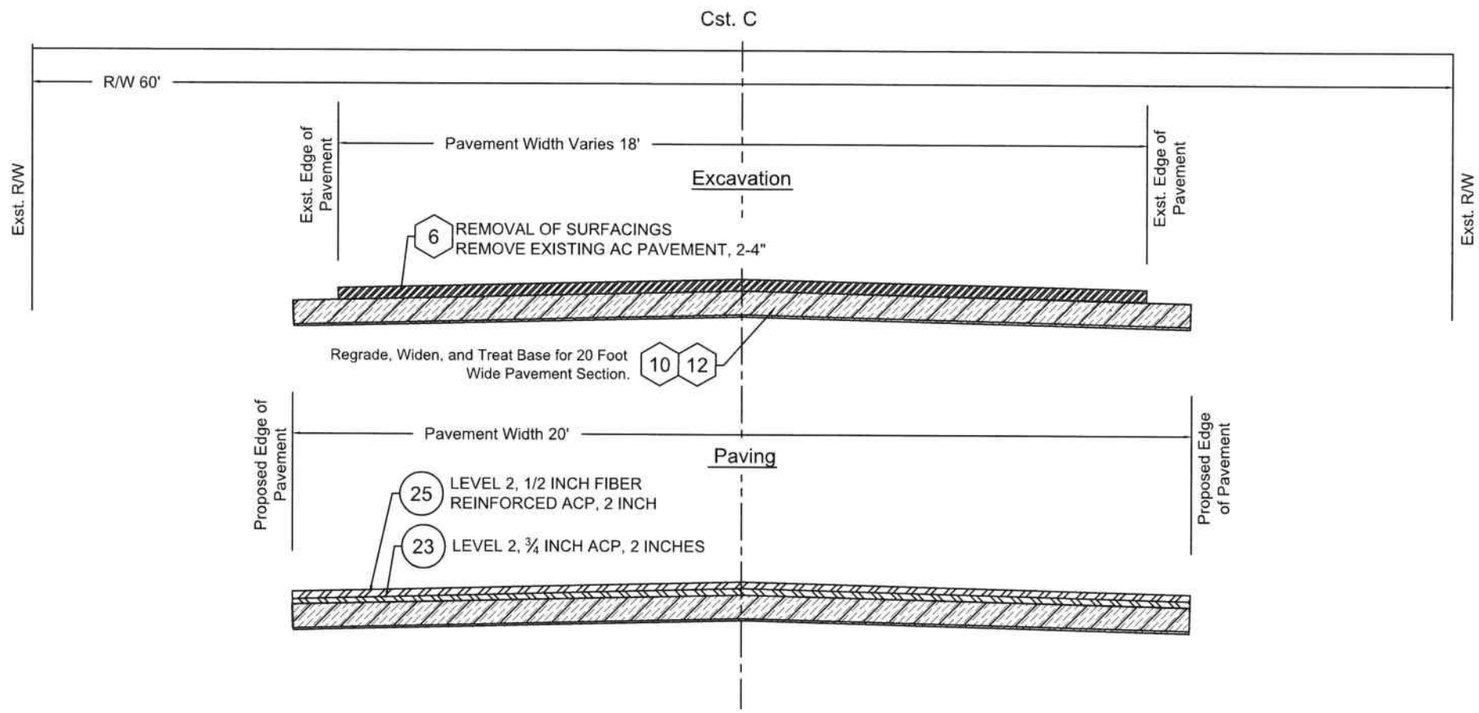
REVISION

DATE	DESCRIPTION

PAVING PLAN

SCALE: 1' = 50' Horizontal

C8.0



8.1 CROSS SECTION LOWER MIDHILL DR

Not To Scale

CITY OF WEST LINN
22500 SALAMO ROAD
WEST LINN, OREGON 97068
WWW.WESTLINNOREGON.GOV
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FAX: (503) 650-9041

REGISTERED PROFESSIONAL ENGINEER 87277PE OREGON JAN 08, 2013 LANCE E. CALVERT

EXPIRES: 12/31/2015

CONTRACTOR

NAME: -N/A
ADDRESS: -N/A

PHONE: -N/A
FAX: -N/A

CITY OF WEST LINN
2015 ROAD PROGRAM

LOWER MIDHILL DR
FROM MARYLHURST DR TO DEAD END

PROJECT NO.: PW-14-16
DESIGNED BY: LCALVERT
DRAWN BY: NBRENNAN

CHECKED BY: LCALVERT
DATE: 5/6/2015

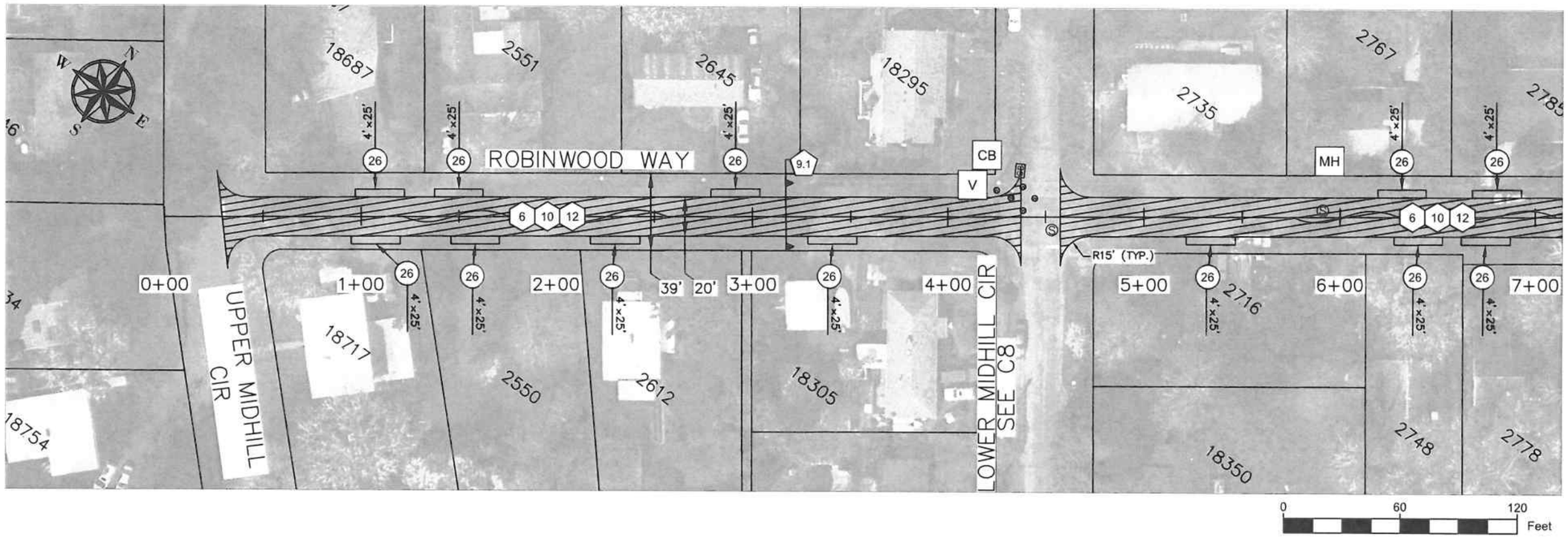
REVISION

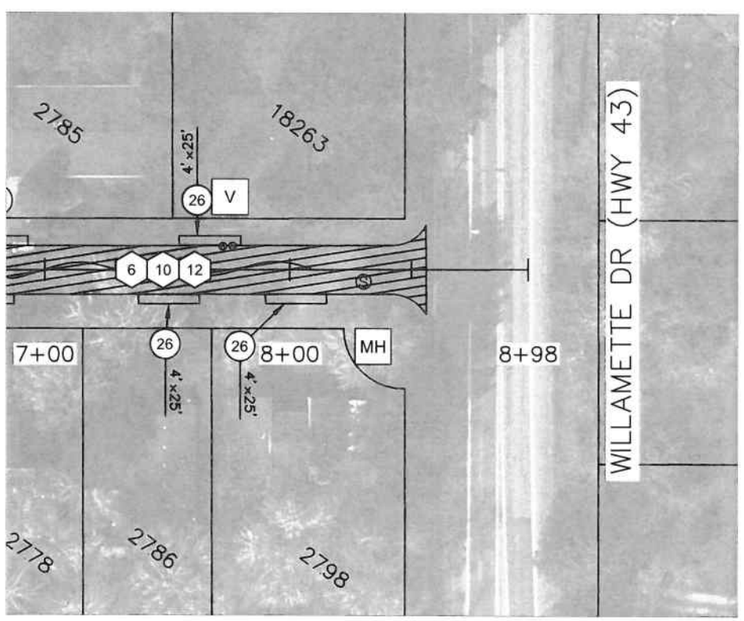
DATE	DESCRIPTION

PAVING PLAN

SCALE: 1' = 50' Horizontal

C8.1





	ITEM	ODOT Specification #	DESCRIPTION	Unit	Estimate
6	6	00310.92d	REMOVAL OF SURFACINGS	SY	1833
9	9	00331.90	8 INCHES SUBGRADE STABILIZATION (SOFT SPOT REPAIR)	SY	60
10	10	00344.90a	TREATED SUBGRADE 8 INCHES THICK, (CTB)*	SY	1833
12	12	00610.90	RECONDITION EXISTING ROADWAY	EA	1
MH	16	00490.90a	MINOR ADJUSTMENT OF MANHOLES*	EA	3
V	18	00490.90d	ADJUSTING BOXES	EA	5
23	23	00745.90	LEVEL 2, 3/4 INCH REINFORCED ACP*	TON	211
25	25	00745.90	LEVEL 2, 1/2 INCH FIBER REINFORCED ACP*	TON	211
26	26	00745.90	LEVEL 2, 1/2 INCH ACP (DRIVEWAY CONNECTIONS)	TON	19

CITY OF WEST LINN
22500 SALAMO ROAD
WEST LINN, OREGON 97068
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REGISTERED PROFESSIONAL ENGINEER 87272PE OREGON JAN 08, 2014 LANCE E. CALVERT

EXPIRES: 12/31/2015

CONTRACTOR

NAME: -N/A
ADDRESS: -N/A

PHONE: -N/A
FAX: -N/A

CITY OF WEST LINN 2015 ROAD PROGRAM

ROBINWOOD WAY FROM UPPER MIDHILL DR TO WILLAMETTE DR

PROJECT NO.: PW-14-16
DESIGNED BY: LCALVERT
DRAWN BY: NBRENNAN

CHECKED BY: LCALVERT
DATE: 5/6/2015

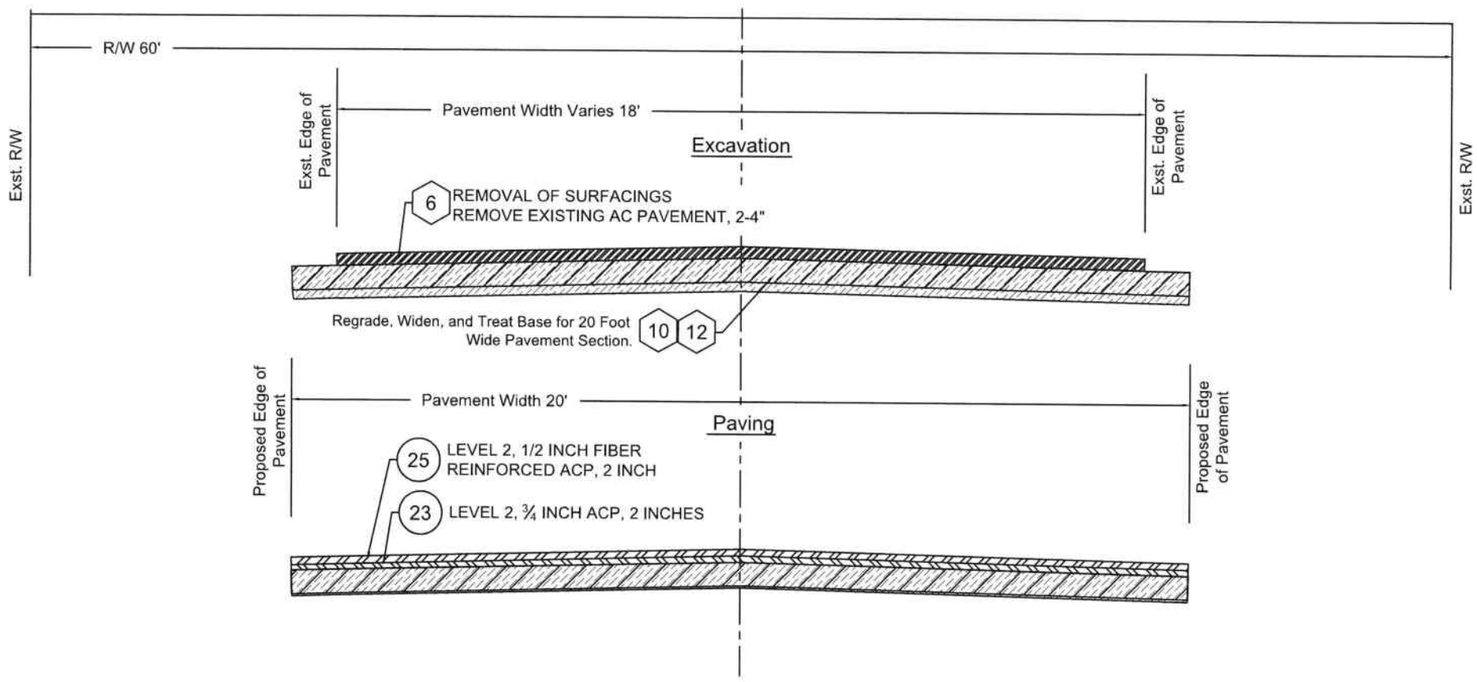
REVISION

DATE	DESCRIPTION

PAVING PLAN

SCALE: 1' = 50' Horizontal

C9.0



9.1 CROSS SECTION ROBINWOOD DR

Not To Scale

City of West Linn

CITY OF WEST LINN
22500 SALAMO ROAD
WEST LINN, OREGON 97068
WWW.WESTLINNOREGON.GOV
PHONE: (503) 567-0331
FAX: (503) 650-9041

REGISTERED PROFESSIONAL ENGINEER 87272PE OREGON JAN 08, 2013 LANCE E. CALVERT

EXPIRES: 12/31/2015

CONTRACTOR

NAME: -N/A
ADDRESS: -N/A

PHONE: -N/A
FAX: -N/A

CITY OF WEST LINN
2015 ROAD PROGRAM

ROBINWOOD WAY FROM
UPPER MIDHILL DR TO WILLAMETTE DR

PROJECT NO.: PW-14-16
DESIGNED BY: LCALVERT
DRAWN BY: NBRENNAN

CHECKED BY: LCALVERT
DATE: 5/6/2015

REVISION

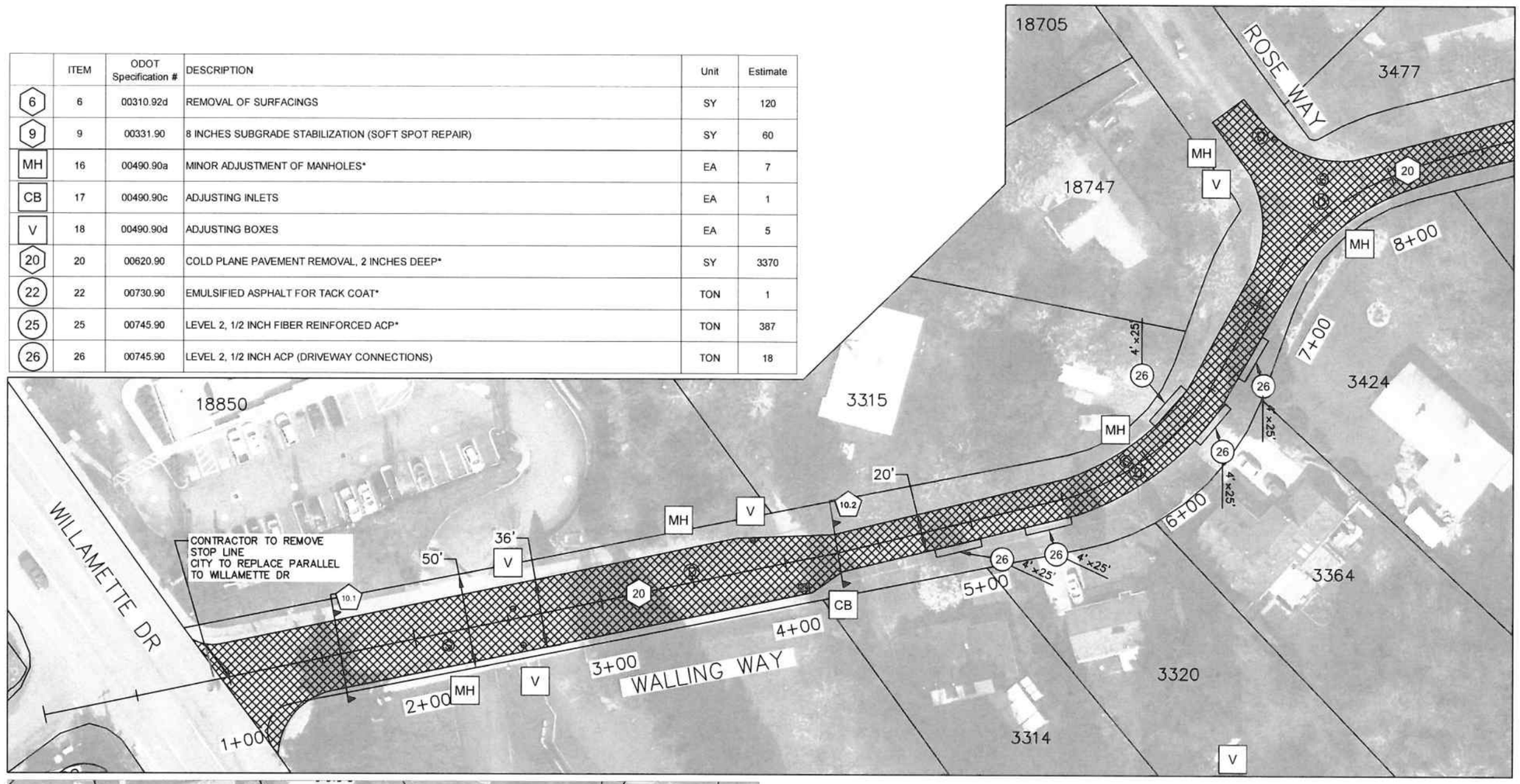
DATE	DESCRIPTION

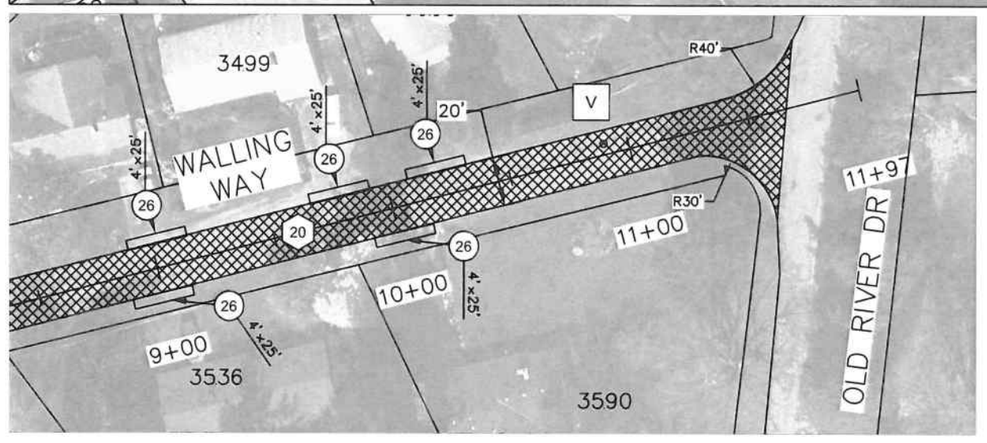
PAVING PLAN

SCALE: 1" = 50' Horizontal

C9.1

	ITEM	ODOT Specification #	DESCRIPTION	Unit	Estimate
6	6	00310.92d	REMOVAL OF SURFACINGS	SY	120
9	9	00331.90	8 INCHES SUBGRADE STABILIZATION (SOFT SPOT REPAIR)	SY	60
MH	16	00490.90a	MINOR ADJUSTMENT OF MANHOLES*	EA	7
CB	17	00490.90c	ADJUSTING INLETS	EA	1
V	18	00490.90d	ADJUSTING BOXES	EA	5
20	20	00620.90	COLD PLANE PAVEMENT REMOVAL, 2 INCHES DEEP*	SY	3370
22	22	00730.90	EMULSIFIED ASPHALT FOR TACK COAT*	TON	1
25	25	00745.90	LEVEL 2, 1/2 INCH FIBER REINFORCED ACP*	TON	387
26	26	00745.90	LEVEL 2, 1/2 INCH ACP (DRIVEWAY CONNECTIONS)	TON	18





N
W E
S

0 60 120 Feet

City of West Linn

CITY OF WEST LINN
22500 SALAMO ROAD
WEST LINN, OREGON 97068
WWW.WESTLINNOREGON.GOV
PHONE: (503) 567-0331
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REGISTERED PROFESSIONAL ENGINEER
87272PE
OREGON
JAN 08, 2013
LANCE E. CALVERT

EXPIRES: 12/31/2015

CONTRACTOR

NAME: -N/A
ADDRESS: -N/A

PHONE: -N/A
FAX: -N/A

CITY OF WEST LINN 2015 ROAD PROGRAM

WALLING WAY FROM WILLAMETTE FALLS DR TO OLD RIVER DR

PROJECT NO.: PW-14-16
DESIGNED BY: LCALVERT
DRAWN BY: NBRENNAN

CHECKED BY: LCALVERT
DATE: 5/6/2015

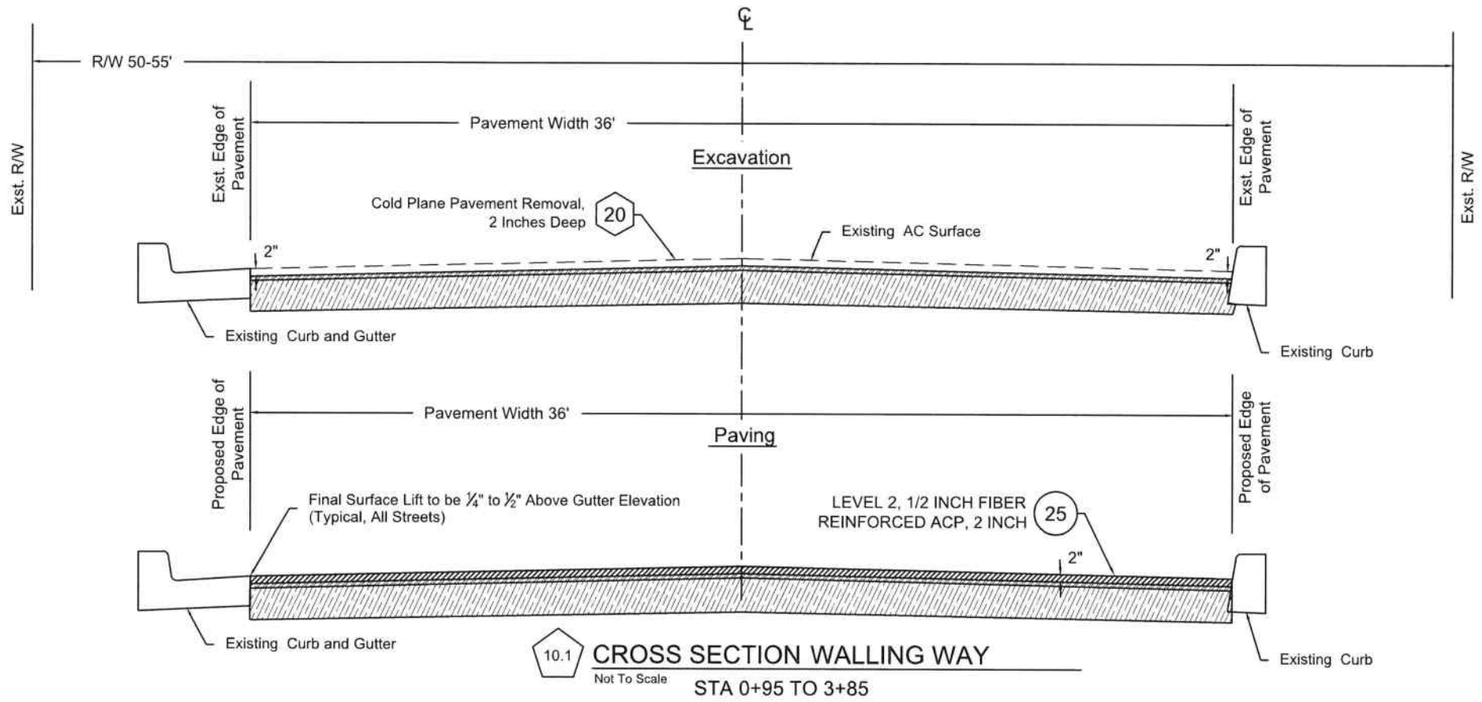
REVISION

DATE	DESCRIPTION

PAVING PLAN

SCALE: 1" = 50' Horizontal

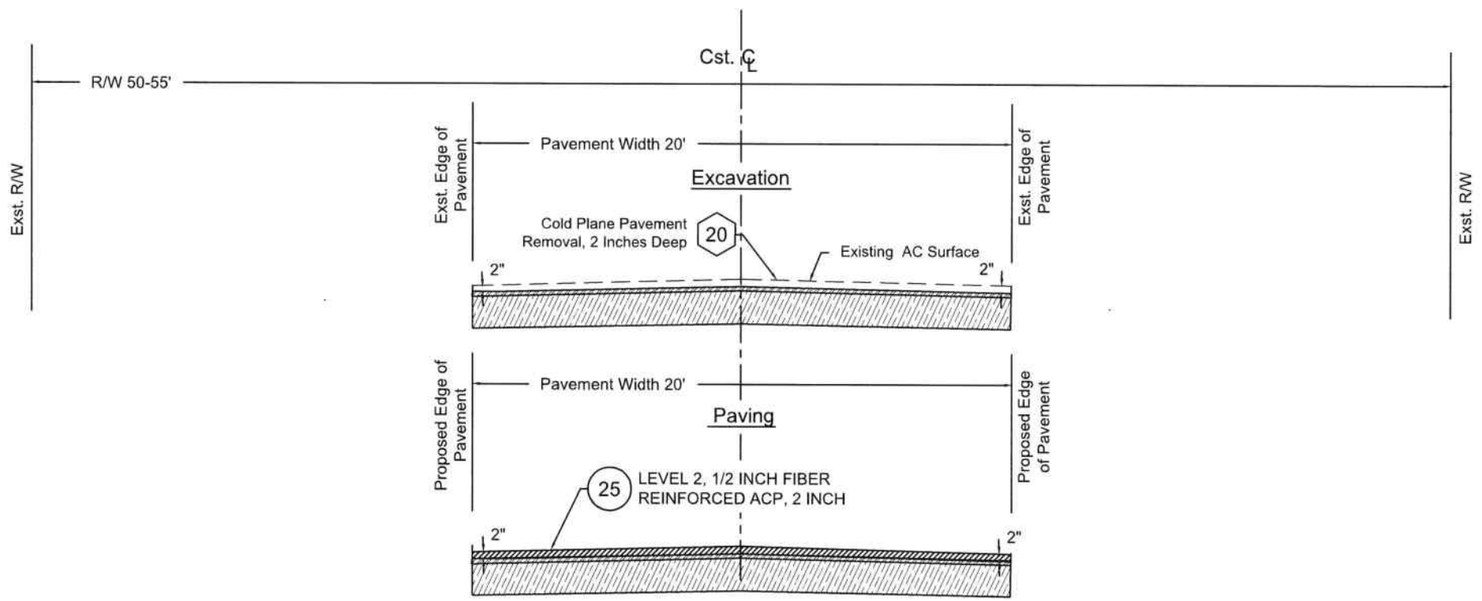
C10.0



10.1 CROSS SECTION WALLING WAY

Not To Scale

STA 0+95 TO 3+85



10.2 CROSS SECTION WALLING WAY

Not To Scale

STA 3+85 TO 11+67

City of West Linn

CITY OF WEST LINN
22500 SALAMO ROAD
WEST LINN, OREGON 97068
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REGISTERED PROFESSIONAL ENGINEER 87272PE OREGON JAN 08, 2014 LANCE E. CALVERT

EXPIRES: 12/31/2015

CONTRACTOR

NAME: -N/A
ADDRESS: -N/A

PHONE: -N/A
FAX: -N/A

CITY OF WEST LINN
2015 ROAD PROGRAM

WALLING WAY FROM
WILLAMETTE FALLS DR TO ROSE WAY

PROJECT NO.: PW-14-16
DESIGNED BY: LCALVERT
DRAWN BY: NBRENNAN

CHECKED BY: LCALVERT
DATE: 5/6/2015

REVISION

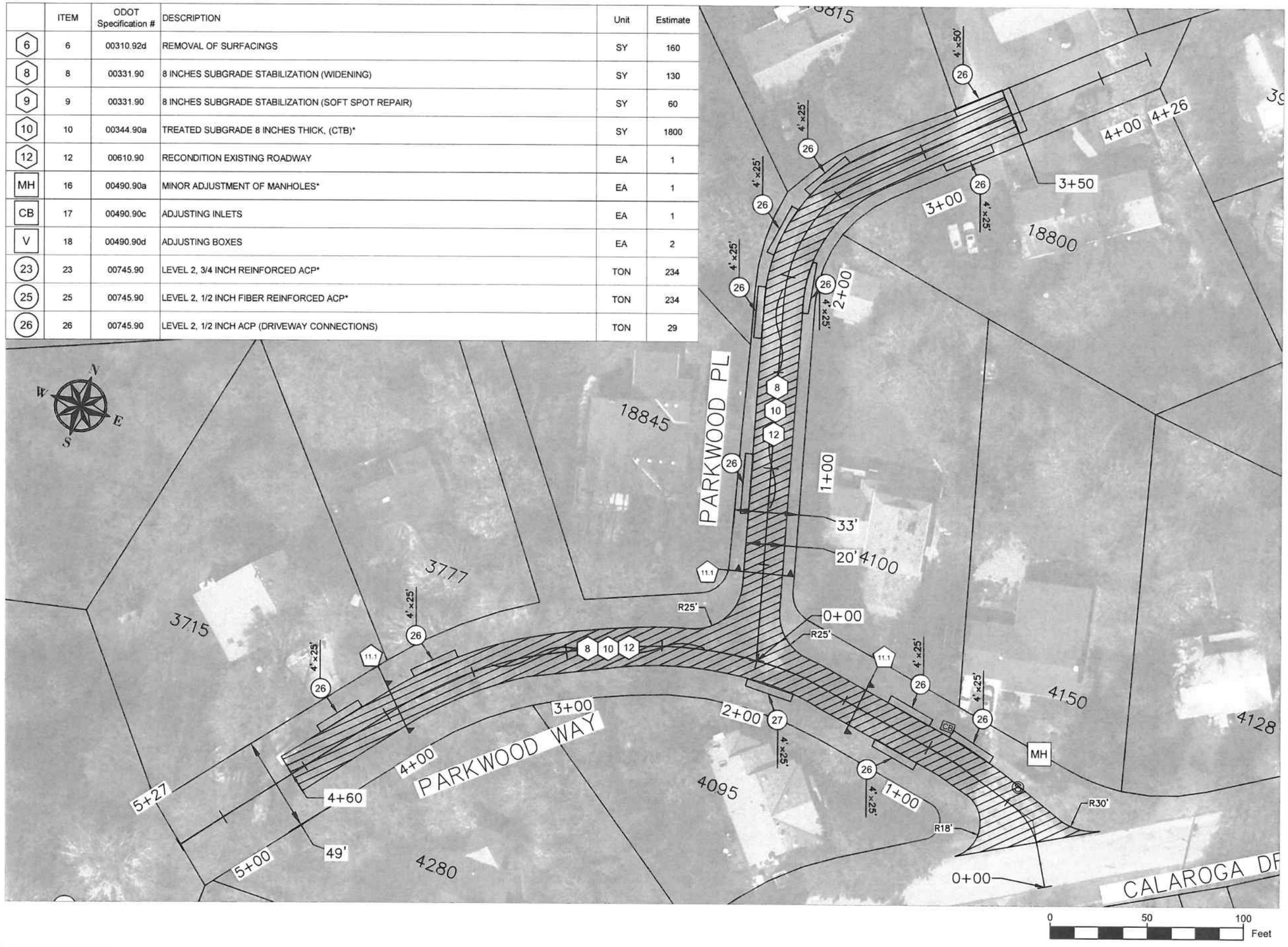
DATE	DESCRIPTION

PAVING PLAN

SCALE: 1" = 50' Horizontal

C10.1

	ITEM	ODOT Specification #	DESCRIPTION	Unit	Estimate
6	6	00310.92d	REMOVAL OF SURFACINGS	SY	160
8	8	00331.90	8 INCHES SUBGRADE STABILIZATION (WIDENING)	SY	130
9	9	00331.90	8 INCHES SUBGRADE STABILIZATION (SOFT SPOT REPAIR)	SY	60
10	10	00344.90a	TREATED SUBGRADE 8 INCHES THICK, (CTB)*	SY	1800
12	12	00610.90	RECONDITION EXISTING ROADWAY	EA	1
MH	16	00490.90a	MINOR ADJUSTMENT OF MANHOLES*	EA	1
CB	17	00490.90c	ADJUSTING INLETS	EA	1
V	18	00490.90d	ADJUSTING BOXES	EA	2
23	23	00745.90	LEVEL 2, 3/4 INCH REINFORCED ACP*	TON	234
25	25	00745.90	LEVEL 2, 1/2 INCH FIBER REINFORCED ACP*	TON	234
26	26	00745.90	LEVEL 2, 1/2 INCH ACP (DRIVEWAY CONNECTIONS)	TON	29



City of West Linn

CITY OF WEST LINN
22500 SALAMO ROAD
WEST LINN, OREGON 97068
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REGISTERED PROFESSIONAL ENGINEER 87272PE OREGON JAN 08, 2013 LANCE E. CALVERT

EXPIRES: 12/31/2015

CONTRACTOR

NAME: -N/A
ADDRESS: -N/A

PHONE: -N/A
FAX: -N/A

CITY OF WEST LINN 2015 ROAD PROGRAM

PARKWOOD WAY AND PARKWOOD PLACE FROM CALAROGA DR TO DEAD ENDS

PROJECT NO.: PW-14-16
DESIGNED BY: LCALVERT
DRAWN BY: NBRENNAN

CHECKED BY: LCALVERT
DATE: 5/6/2015

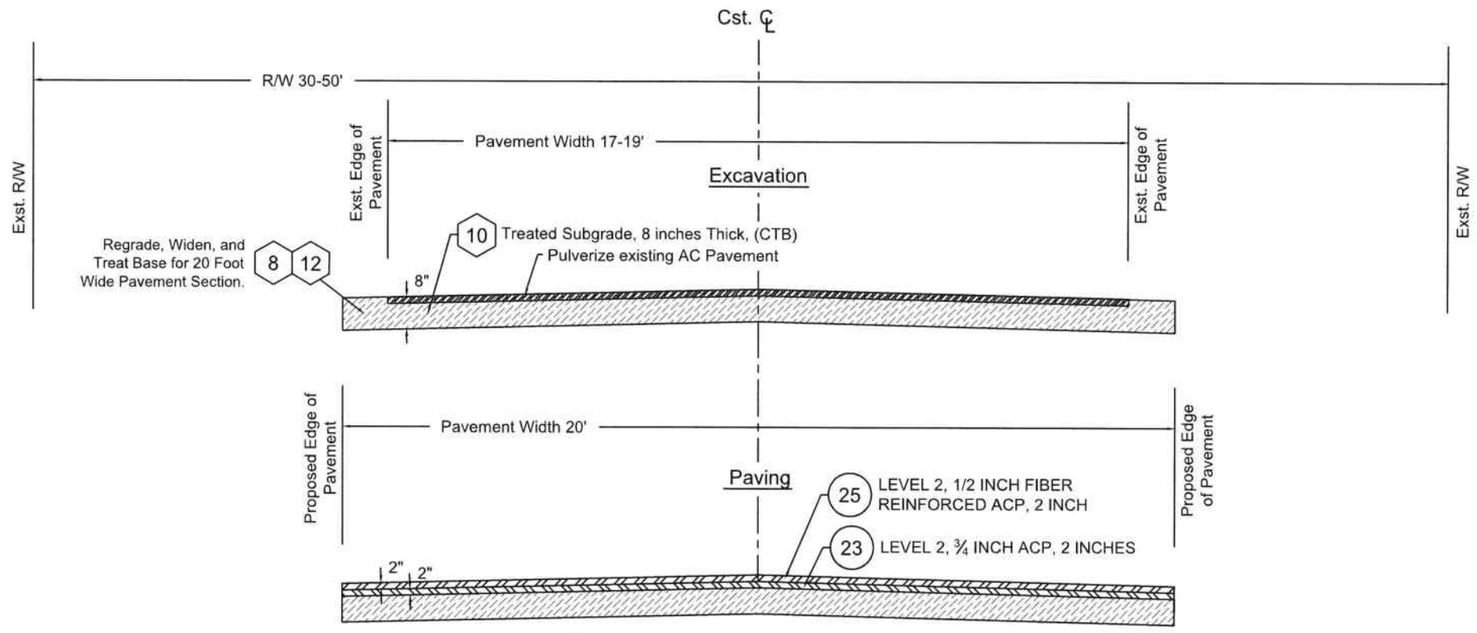
REVISION

DATE	DESCRIPTION

PAVING PLAN

SCALE: 1' = 50' Horizontal

C11.0



11.1 CROSS SECTION PARKWOOD

Not To Scale

CITY OF WEST LINN
22500 SALAMO ROAD
WEST LINN, OREGON 97068
WWW.WESTLINNOREGON.GOV
PHONE: (503) 567-0331
FAX: (503) 650-9041

REGISTERED PROFESSIONAL ENGINEER 87272PE OREGON JAN 08, 2013 LANCE E. CALVERT

EXPIRES: 12/31/2015

CONTRACTOR

NAME: -N/A
ADDRESS: -N/A

PHONE: -N/A
FAX: -N/A

CITY OF WEST LINN
2015 ROAD PROGRAM

PARKWOOD WAY AND PARKWOOD PLACE
FROM CALAROGA DR TO DEAD ENDS

PROJECT NO.: PW-14-16
DESIGNED BY: LCALVERT
DRAWN BY: NBRENNAN

CHECKED BY: LCALVERT
DATE: 5/6/2015

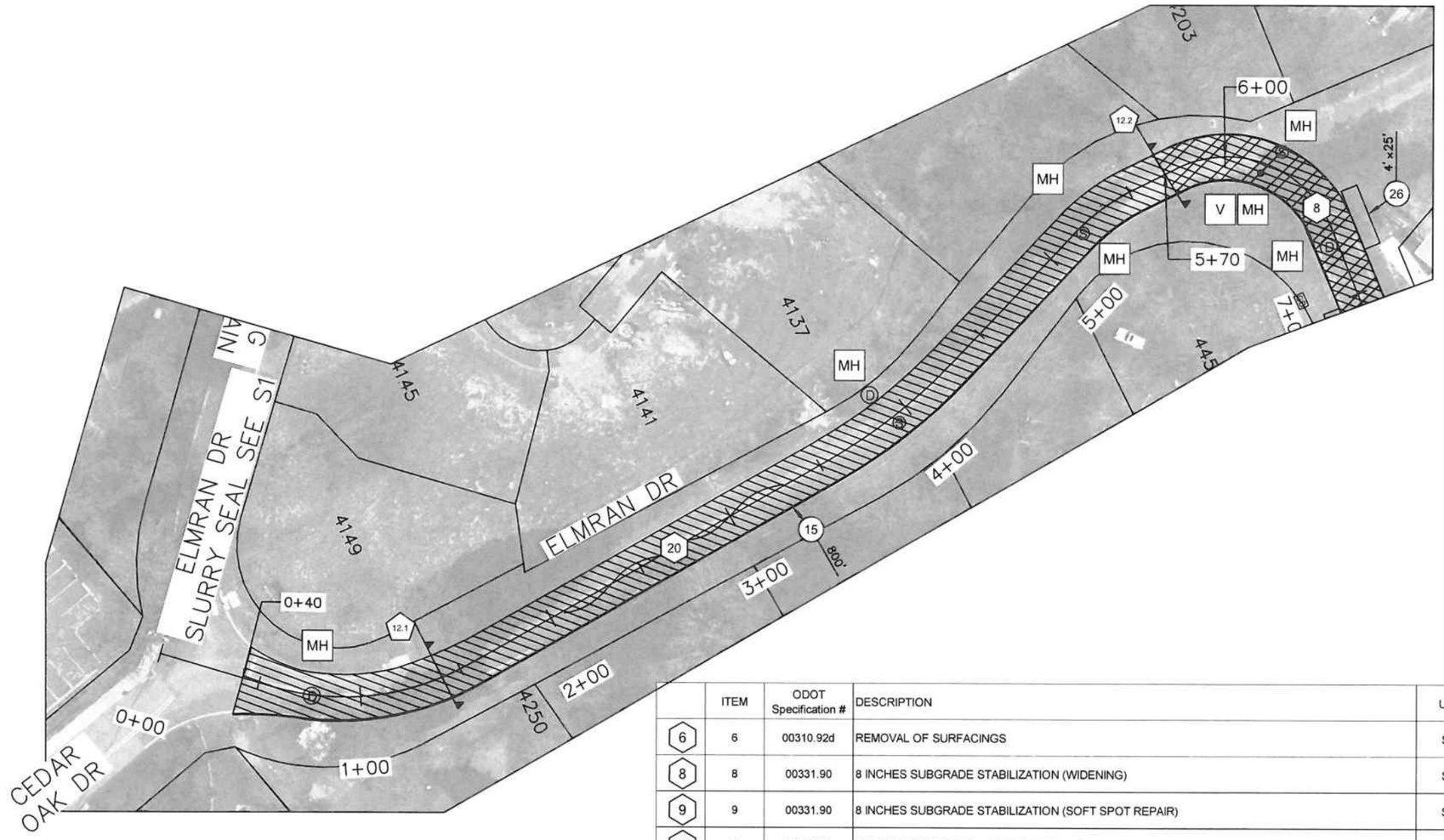
REVISION

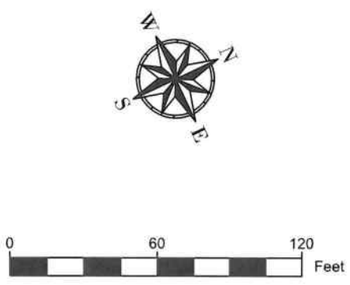
DATE	DESCRIPTION

PAVING PLAN

SCALE: 1' = 50' Horizontal

C11.1





	ITEM	ODOT Specification #	DESCRIPTION	Unit	Estimate
6	6	00310.92d	REMOVAL OF SURFACINGS	SY	920
8	8	00331.90	8 INCHES SUBGRADE STABILIZATION (WIDENING)	SY	920
9	9	00331.90	8 INCHES SUBGRADE STABILIZATION (SOFT SPOT REPAIR)	SY	60
10	10	00344.90a	TREATED SUBGRADE 8 INCHES THICK, (CTB)*	SY	920
12	12	00610.90	RECONDITION EXISTING ROADWAY	EA	1
15	15	00480.90	DRAINAGE CURB, AC	LF	800
MH	16	00490.90a	MINOR ADJUSTMENT OF MANHOLES*	EA	5
CB	17	00490.90c	ADJUSTING INLETS	EA	2
V	18	00490.90d	ADJUSTING BOXES	EA	2
20	20	00620.90	COLD PLANE PAVEMENT REMOVAL, 2 INCHES DEEP*	SY	2475
23	23	00745.90	LEVEL 2, 3/4 INCH REINFORCED ACP*	TON	106
25	25	00745.90	LEVEL 2, 1/2 INCH FIBER REINFORCED ACP*	TON	390
26	26	00745.90	LEVEL 2, 1/2 INCH ACP (DRIVEWAY CONNECTIONS)	TON	26

CITY OF WEST LINN
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REGISTERED PROFESSIONAL ENGINEER 87272PE OREGON JAN 08, 2013 LANCE E. CALVERT

EXPIRES: 12/31/2015

CONTRACTOR

NAME: -N/A
ADDRESS: -N/A

PHONE: -N/A
FAX: -N/A

CITY OF WEST LINN 2015 ROAD PROGRAM

ELMRAN DR
FROM CEDAROAK DR TO STEAMBOAT WAY

PROJECT NO.: PW-14-16
DESIGNED BY: LCALVERT
DRAWN BY: NBRENNAN

CHECKED BY: LCALVERT
DATE: 5/6/2015

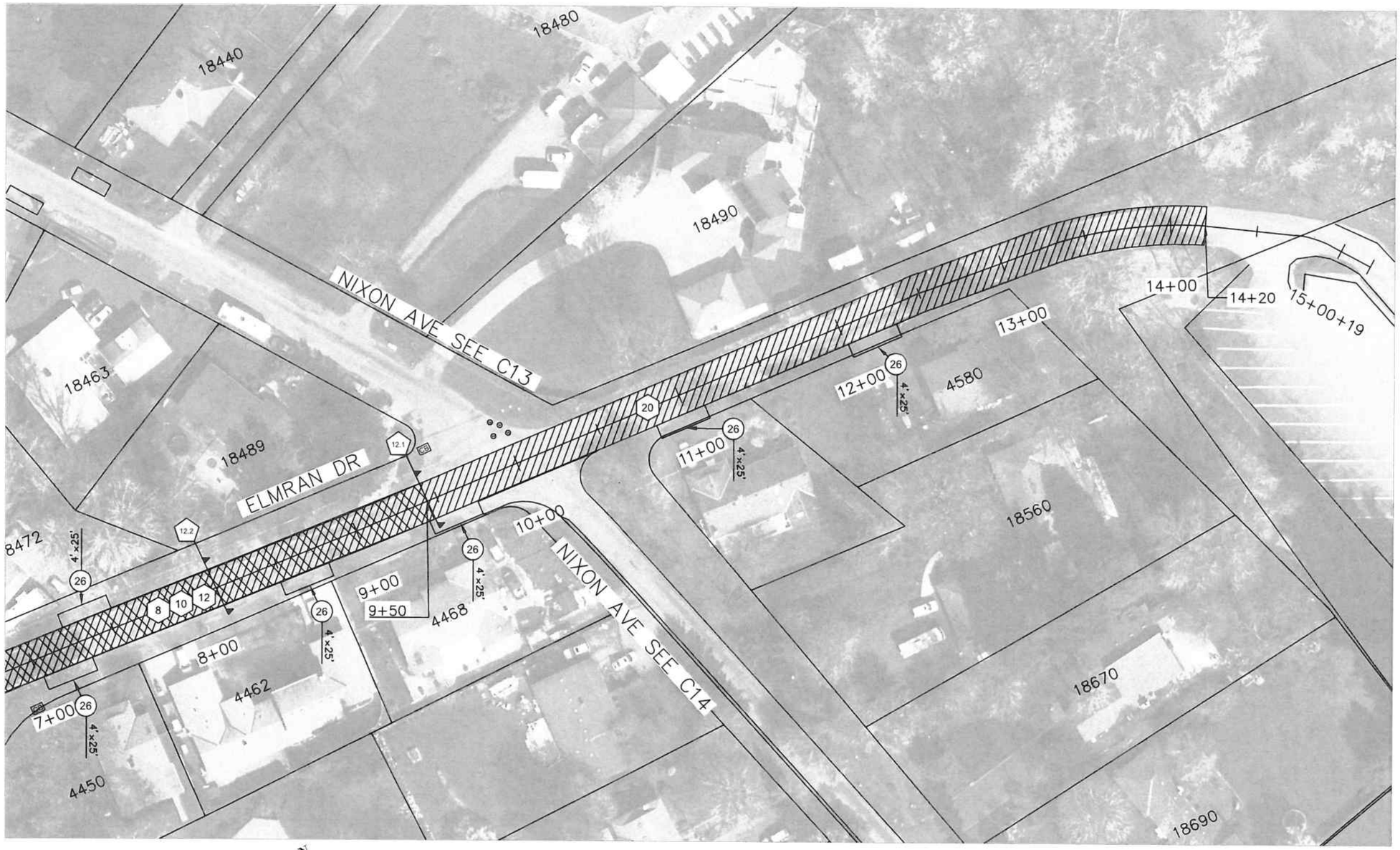
REVISION

DATE	DESCRIPTION

PAVING PLAN

SCALE: 1' = 50' Horizontal

C12.0



0 60 120 Feet

CITY OF WEST LINN
22500 SALAMO ROAD
WEST LINN, OREGON 97068
WWW.WESTLINNOREGON.GOV
PHONE: (503) 567-0331
FAX: (503) 650-9041

REGISTERED PROFESSIONAL ENGINEER
87272PE
OREGON
JAN 08, 2013
LANCE E. CALVERT

EXPIRES: 12/31/2015

CONTRACTOR

NAME: -N/A
ADDRESS: -N/A

PHONE: -N/A
FAX: -N/A

CITY OF WEST LINN 2015 ROAD PROGRAM

ELMRAN DR FROM STEAMBOAT WAY TO CEDAROAK BOAT RAMP

PROJECT NO.: PW-14-16
DESIGNED BY: LCALVERT
DRAWN BY: NBRENNAN

CHECKED BY: LCALVERT
DATE: 5/6/2015

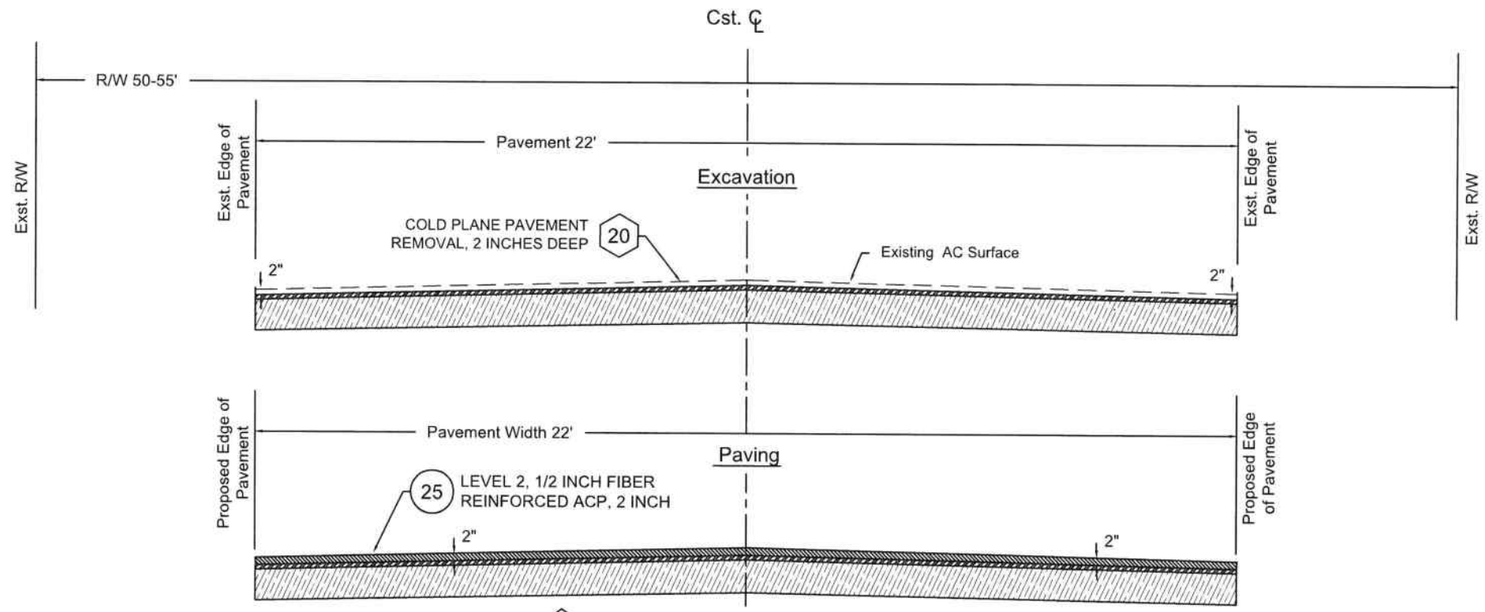
REVISION

DATE	DESCRIPTION

PAVING PLAN

SCALE: 1' = 50' Horizontal

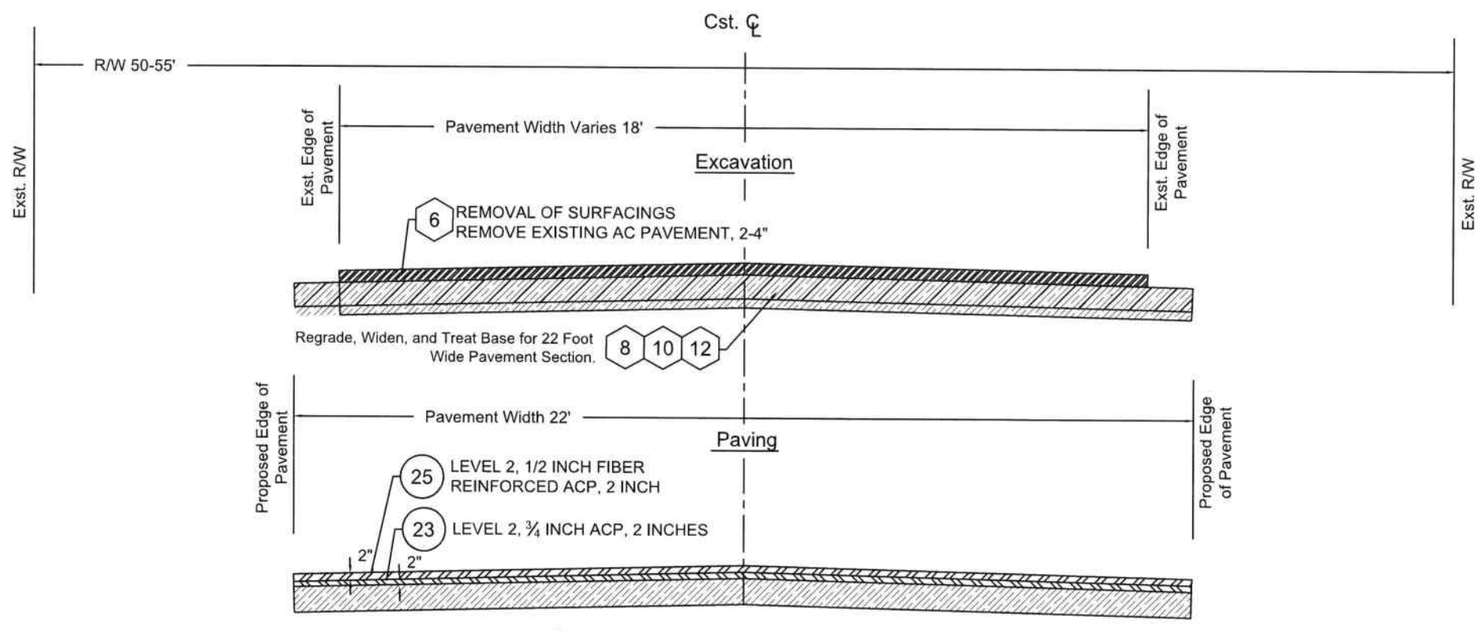
C12.1



12.1 CROSS SECTION ELRMAN DR

Not To Scale

STA 5+70 TO 9+50



12.2 CROSS SECTION ELMRAN DR

Not To Scale

STA 0+40 TO 5+70

STA 9+50 TO 14+20

City of West Linn

CITY OF WEST LINN
22500 SALAMO ROAD
WEST LINN, OREGON 97068
WWW.WESTLINNOREGON.GOV
PHONE: (503) 567-0331
FAX: (503) 650-9041

REGISTERED PROFESSIONAL ENGINEER
87277PE
OREGON
JAN 08, 2013
LANCE E. CALVERT

EXPIRES: 12/31/2015

CONTRACTOR

NAME: -N/A
ADDRESS: -N/A

PHONE: -N/A
FAX: -N/A

CITY OF WEST LINN 2015 ROAD PROGRAM

ELRMAN DR FROM CEDAR OAK DR TO CEDAR OAK BOAT RAMP

PROJECT NO.: PW-14-16
DESIGNED BY: LCALVERT
DRAWN BY: NBRENNAN

CHECKED BY: LCALVERT
DATE: 5/6/2015

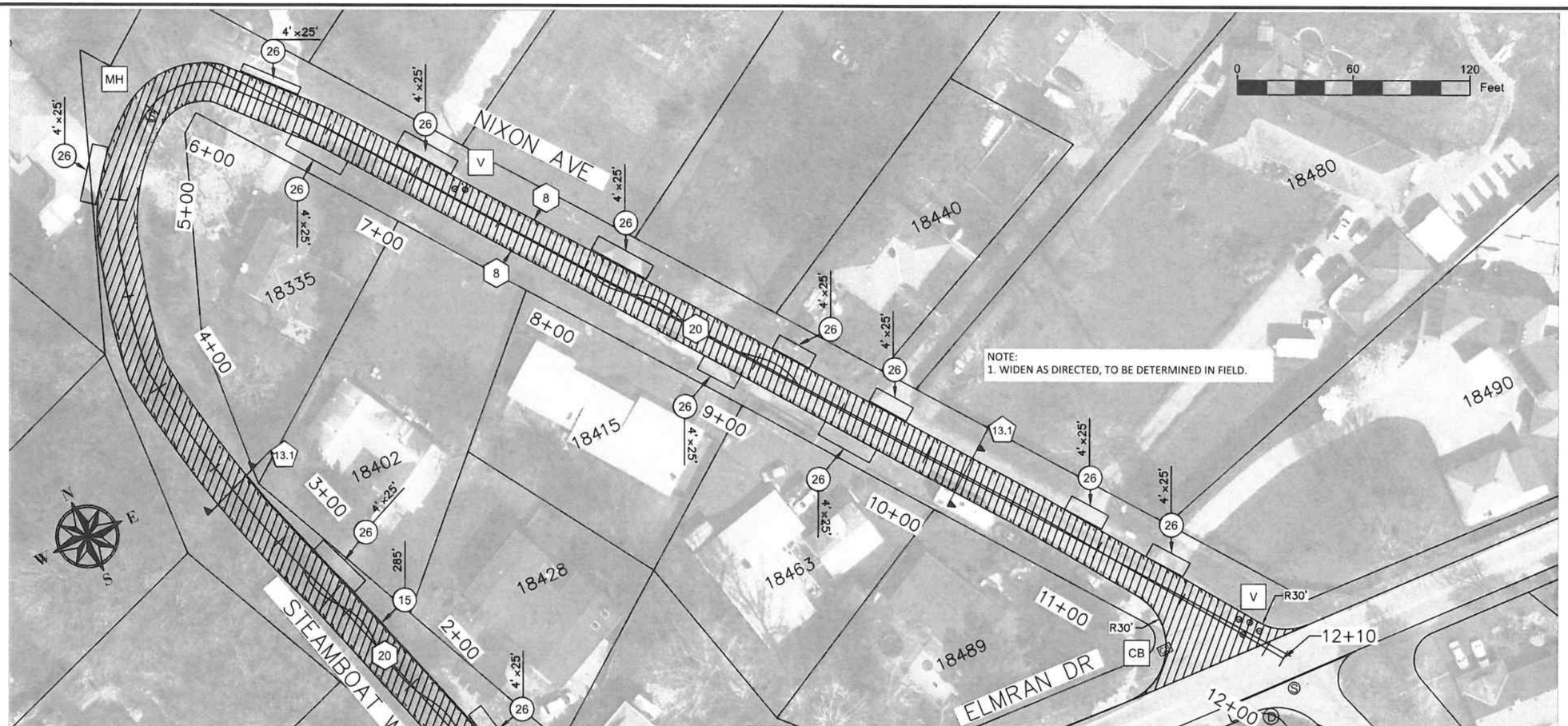
REVISION

DATE	DESCRIPTION

PAVING PLAN

SCALE: 1' = 50' Horizontal

C12.2



	ITEM	ODOT Specification #	DESCRIPTION	Unit	Steamboat
6	6	00310.92d	REMOVAL OF SURFACINGS	SY	350
8	8	00331.90	8 INCHES SUBGRADE STABILIZATION (WIDENING)	SY	500
9	9	00331.90	8 INCHES SUBGRADE STABILIZATION (SOFT SPOT REPAIR)	SY	60
15	15	00480.90	DRAINAGE CURB, AC	LF	285
MH	16	00490.90a	MINOR ADJUSTMENT OF MANHOLES*	EA	1
CB	17	00490.90c	ADJUSTING INLETS	EA	2
V	18	00490.90d	ADJUSTING BOXES	EA	6
20	20	00620.90	COLD PLANE PAVEMENT REMOVAL, 2 INCHES DEEP*	SY	2222
22	22	00730.90	EMULSIFIED ASPHALT FOR TACK COAT*	TON	1
23	23	00745.90	LEVEL 2, 3/4 INCH REINFORCED ACP*	TON	60
25	25	00745.90	LEVEL 2, 1/2 INCH FIBER REINFORCED ACP*	TON	311
26	26	00745.90	LEVEL 2, 1/2 INCH ACP (DRIVEWAY CONNECTIONS)	TON	67

CITY OF WEST LINN
22500 SALAMO ROAD
WEST LINN, OREGON 97068
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REGISTERED PROFESSIONAL ENGINEER 87272PE OREGON JAN 08, 2013 LANCE E. CALVERT

EXPIRES: 12/31/2015

CONTRACTOR

NAME: -N/A
ADDRESS: -N/A

PHONE: -N/A
FAX: -N/A

CITY OF WEST LINN 2015 ROAD PROGRAM

STEAMBOAT WAY FROM ELMRAN AVE TO NIXON AVE

PROJECT NO.: PW-14-16
DESIGNED BY: LCALVERT
DRAWN BY: NBRENNAN

CHECKED BY: LCALVERT
DATE: 5/6/2015

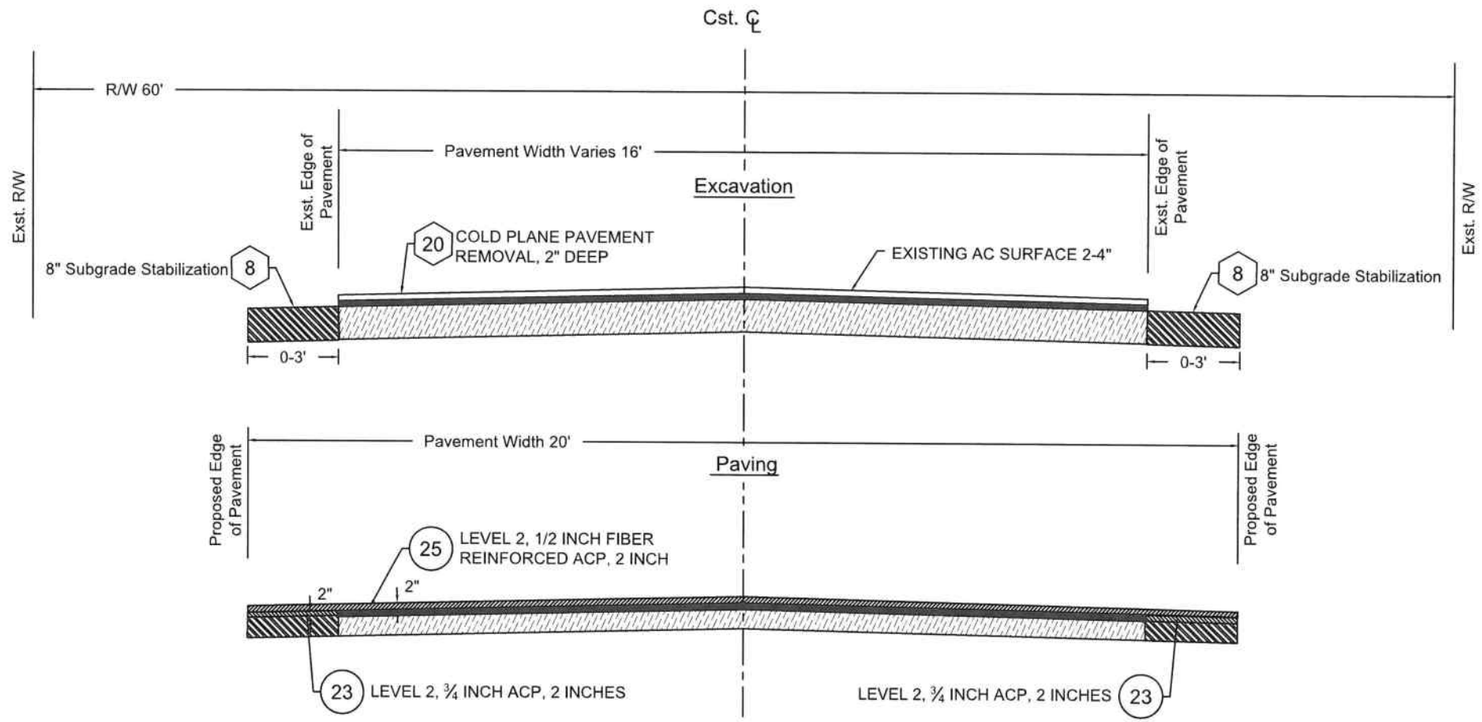
REVISION

DATE	DESCRIPTION

PAVING PLAN

SCALE: 1' = 50' Horizontal

C13.0



13.1 CROSS SECTION STEAMBOAT WAY AND NIXON AVE

Not To Scale

City of West Linn

CITY OF WEST LINN
22500 SALAMO ROAD
WEST LINN, OREGON 97068
WWW.WESTLINNOREGON.GOV
PHONE: (503) 567-0331
FAX: (503) 650-9041

REGISTERED PROFESSIONAL ENGINEER 87272PE OREGON JAN 08, 2013 LANCE E. CALVERT

EXPIRES: 12/31/2015

CONTRACTOR

NAME: -N/A
ADDRESS: -N/A

PHONE: -N/A
FAX: -N/A

CITY OF WEST LINN
2015 ROAD PROGRAM

STEAMBOAT WAY
FROM ELMRAN AVE TO NIXON AVE

PROJECT NO.: PW-14-16
DESIGNED BY: LCALVERT
DRAWN BY: NBRENNAN

CHECKED BY: LCALVERT
DATE: 5/6/2015

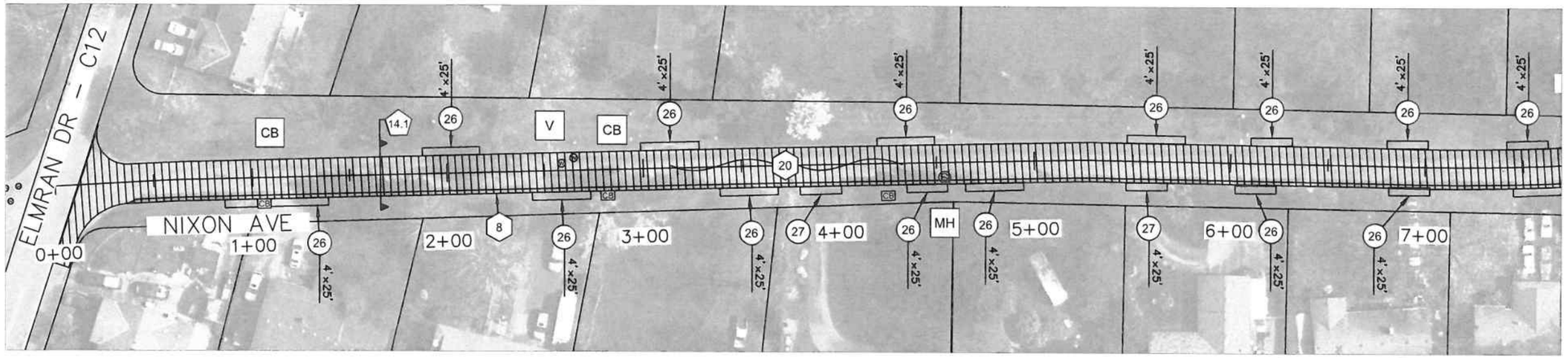
REVISION

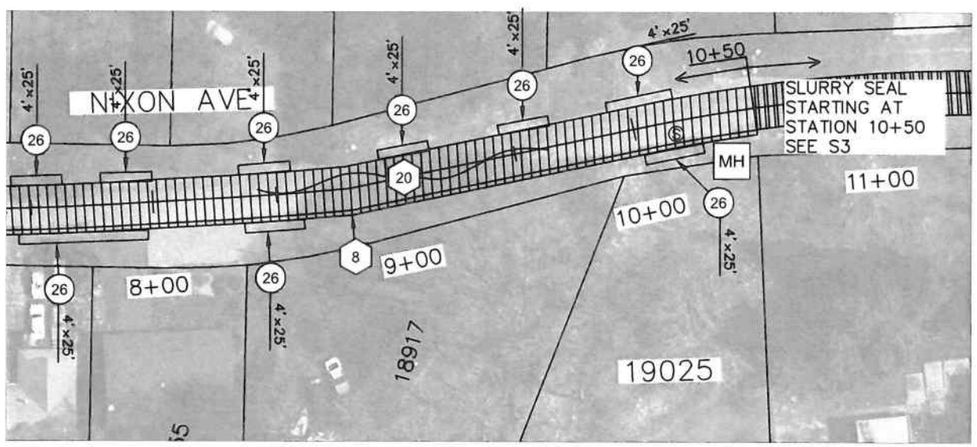
DATE	DESCRIPTION

PAVING PLAN

SCALE: 1' = 50' Horizontal

C13.1





	ITEM	ODOT Specification #	DESCRIPTION	Unit	Estimate
8	8	00331.90	8 INCHES SUBGRADE STABILIZATION (WIDENING)	SY	226
9	9	00331.90	8 INCHES SUBGRADE STABILIZATION (SOFT SPOT REPAIR)	SY	60
MH	16	00490.90a	MINOR ADJUSTMENT OF MANHOLES*	EA	3
CB	17	00490.90c	ADJUSTING INLETS	EA	2
V	18	00490.90d	ADJUSTING BOXES	EA	2
20	20	00620.90	COLD PLANE PAVEMENT REMOVAL, 2 INCHES DEEP*	SY	2133
22	22	00730.90	EMULSIFIED ASPHALT FOR TACK COAT*	TON	1
23	23	00745.90	LEVEL 2, 3/4 INCH REINFORCED ACP*	TON	270
25	25	00745.90	LEVEL 2, 1/2 INCH FIBER REINFORCED ACP*	TON	270
26	26	00745.90	LEVEL 2, 1/2 INCH ACP (DRIVEWAY CONNECTIONS)	TON	50

CITY OF WEST LINN
22500 SALAMO ROAD
WEST LINN, OREGON 97068
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FAX: (503) 650-9041

REGISTERED PROFESSIONAL ENGINEER 87072PE OREGON JAN 08, 2013 LANCE E. CALVERT

EXPIRES: 12/31/2015

CONTRACTOR

NAME: -N/A
ADDRESS: -N/A

PHONE: -N/A
FAX: -N/A

CITY OF WEST LINN 2015 ROAD PROGRAM

NIXON AVE
FROM ELMRAN DR TO 19025 NIXON AVE

PROJECT NO.: PW-14-16
DESIGNED BY: LCALVERT
DRAWN BY: NBRENNAN

CHECKED BY: LCALVERT
DATE: 5/6/2015

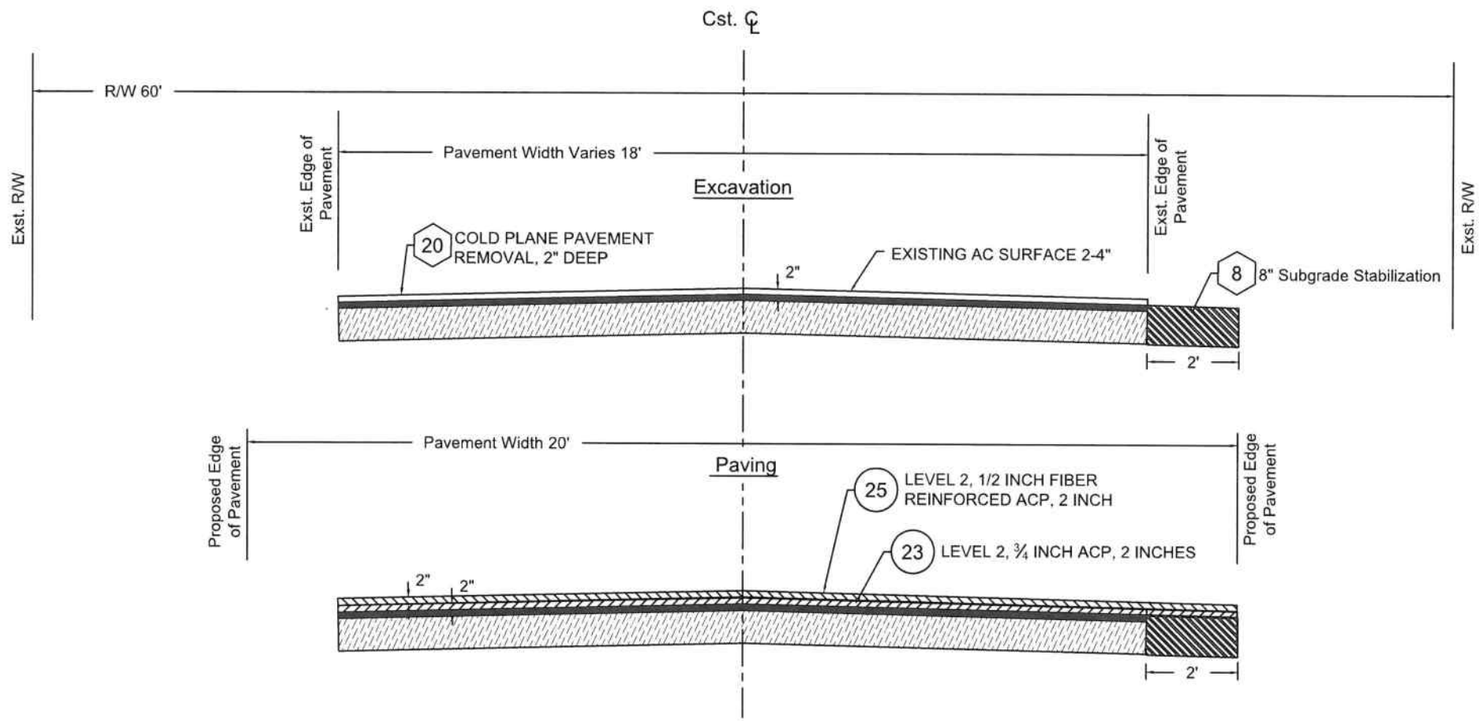
REVISION

DATE	DESCRIPTION

PAVING PLAN

SCALE: 1' = 50' Horizontal

C14.0



14.1 CROSS SECTION NIXON AVE

Not To Scale

CITY OF WEST LINN
22500 SALAMO ROAD
WEST LINN, OREGON 97068
WWW.WESTLINNOREGON.GOV
PHONE: (503) 567-0331
FAX: (503) 650-9041

REGISTERED PROFESSIONAL ENGINEER 87272PE OREGON JAN 08, 2013 LANCE E. CALVERT

EXPIRES: 12/31/2015

CONTRACTOR

NAME: -N/A
ADDRESS: -N/A

PHONE: -N/A
FAX: -N/A

CITY OF WEST LINN
2015 ROAD PROGRAM

NIXON AVE
FROM ELMRAN AVE TO STEAMBOAT WAY

PROJECT NO.: PW-14-16
DESIGNED BY: LCALVERT
DRAWN BY: NBRENNAN

CHECKED BY: LCALVERT
DATE: 5/6/2015

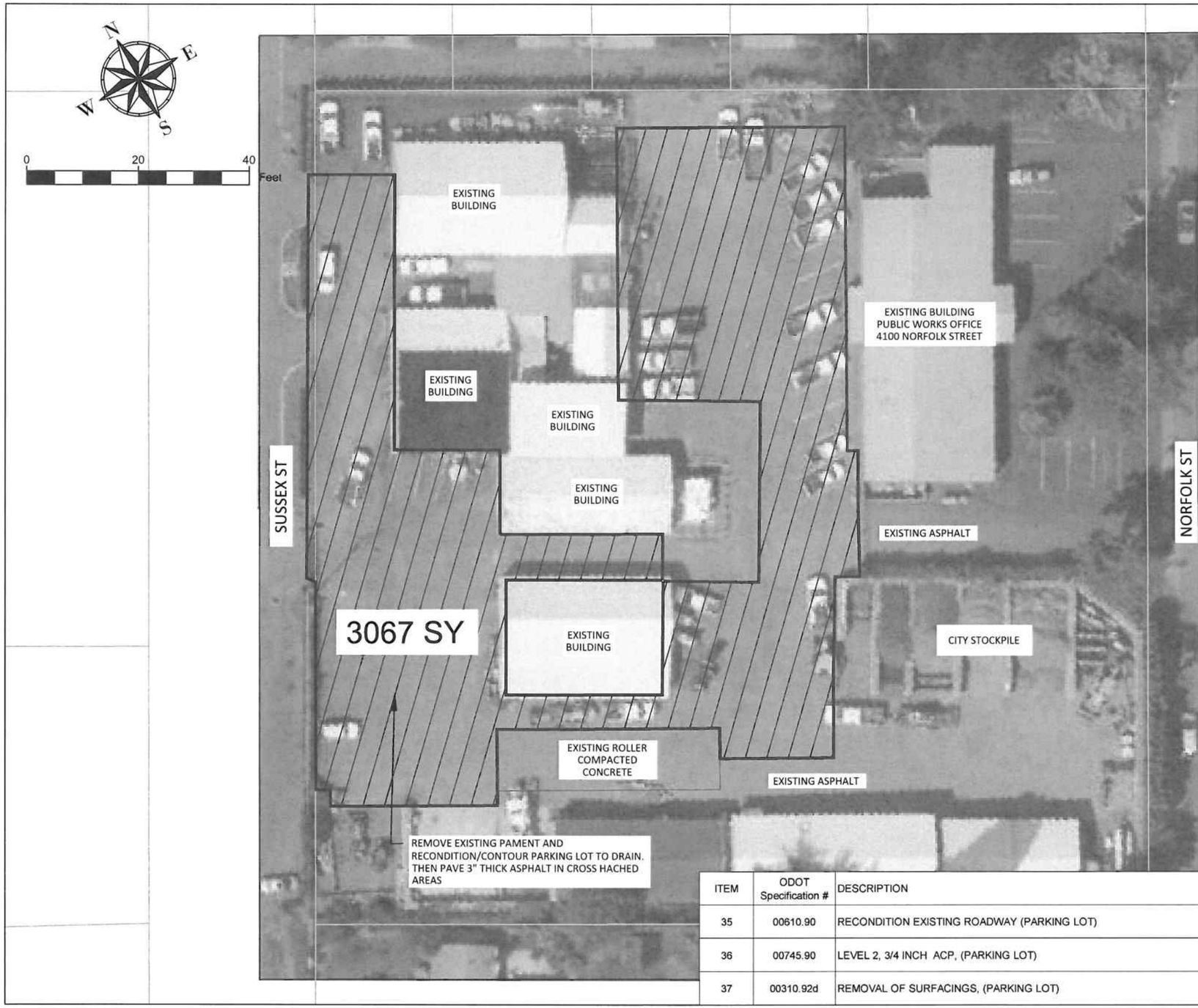
REVISION

DATE	DESCRIPTION

PAVING PLAN

SCALE: 1' = 50' Horizontal

C14.1



ITEM	ODOT Specification #	DESCRIPTION	Unit	Estimate
35	00610.90	RECONDITION EXISTING ROADWAY (PARKING LOT)	EA	1
36	00745.90	LEVEL 2, 3/4 INCH ACP, (PARKING LOT)	TON	529
37	00310.92d	REMOVAL OF SURFACINGS, (PARKING LOT)	SY	3067

NOTE: CITY PUBLIC WORKS GRAVEL STOCKPILE TO BE USED AS NECESSARY FOR RECONDITIONING PARKING LOT

City of West Linn

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22500 SALAMO ROAD
WEST LINN, OREGON 97068
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FAX: (503) 650-9041

REGISTERED PROFESSIONAL ENGINEER 87272PE OREGON JAN 08, 2013 LANCE E. CALVERT

EXPIRES: 12/31/2015

CONTRACTOR

NAME: -N/A
ADDRESS: -N/A

PHONE: -N/A
FAX: -N/A

CITY OF WEST LINN 2015 ROAD PROGRAM

4100 NORFOLK PUBLIC WORKS SITE PARKING LOT

PROJECT NO.: ########
DESIGNED BY: LCALVERT
DRAWN BY: NBRENNAN

CHECKED BY: LCALVERT
DATE: 5/6/2015

REVISION

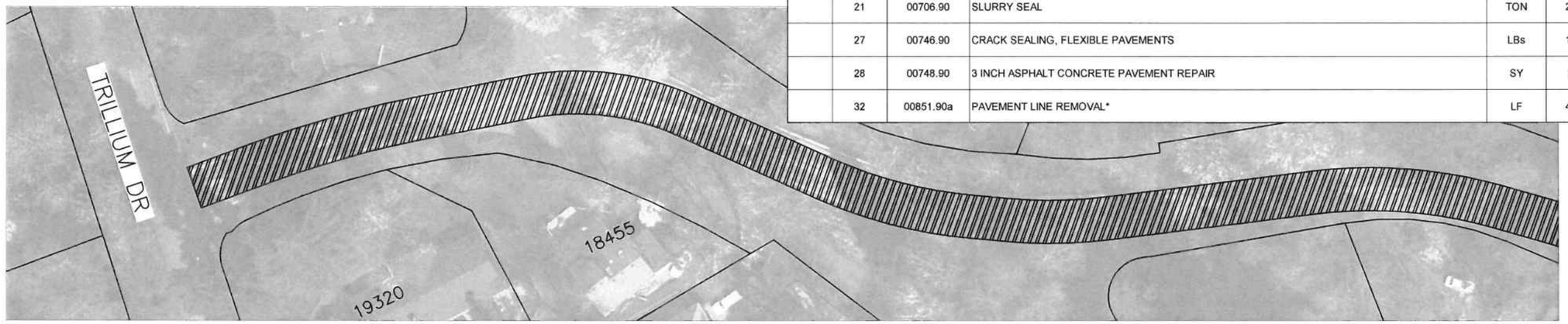
DATE	DESCRIPTION

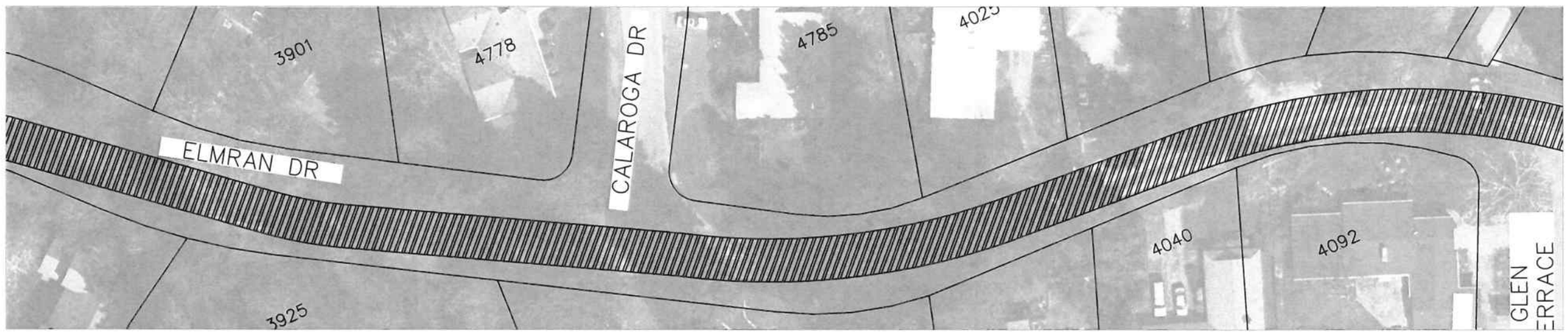
PAVING PLAN

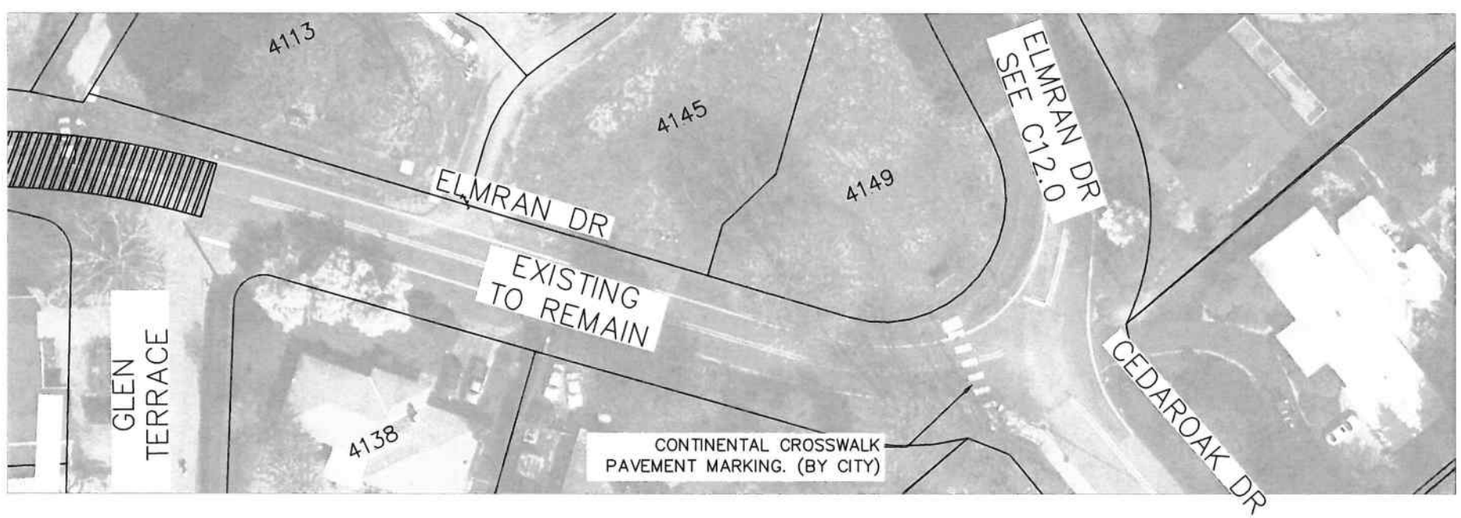
SCALE: 1' = 50' Horizontal

C15.0

	ITEM	ODOT Specification #	DESCRIPTION	Unit	ESTIMATE
	21	00706.90	SLURRY SEAL	TON	2950
	27	00746.90	CRACK SEALING, FLEXIBLE PAVEMENTS	LBs	1000
	28	00748.90	3 INCH ASPHALT CONCRETE PAVEMENT REPAIR	SY	300
	32	00851.90a	PAVEMENT LINE REMOVAL*	LF	4880







NOTE:
1. ALL SLURRY SEAL TO BE COMPLETED AFTER 3" ASPHALT REPAIR, CRACK SEALING, AND PAVEMENT MARKING REMOVAL ARE COMPLETED. PAVEMENT REPAIR TO BE COMPLETED AS DIRECTED BY CITY.
2. PROTECT EXISTING STOP BARS FROM SLURRY..

0 60 120 Feet

City of West Linn

CITY OF WEST LINN
22500 SALAMO ROAD
WEST LINN, OREGON 97068
WWW.WESTLINNOREGON.GOV
PHONE: (503) 567-0331
FAX: (503) 650-9041

REGISTERED PROFESSIONAL ENGINEER 8777295 OREGON JAN 08, 20 LANCE E. CALVERT

EXPIRES: 12/31/2015

CONTRACTOR

NAME: -N/A
ADDRESS: -N/A

PHONE: -N/A
FAX: -N/A

CITY OF WEST LINN 2015 ROAD PROGRAM

ELMRAN AVE
FROM TRILLIUM DR TO CALAROGA DR

PROJECT NO.: PW-14-16
DESIGNED BY: LCALVERT
DRAWN BY: NBRENNAN

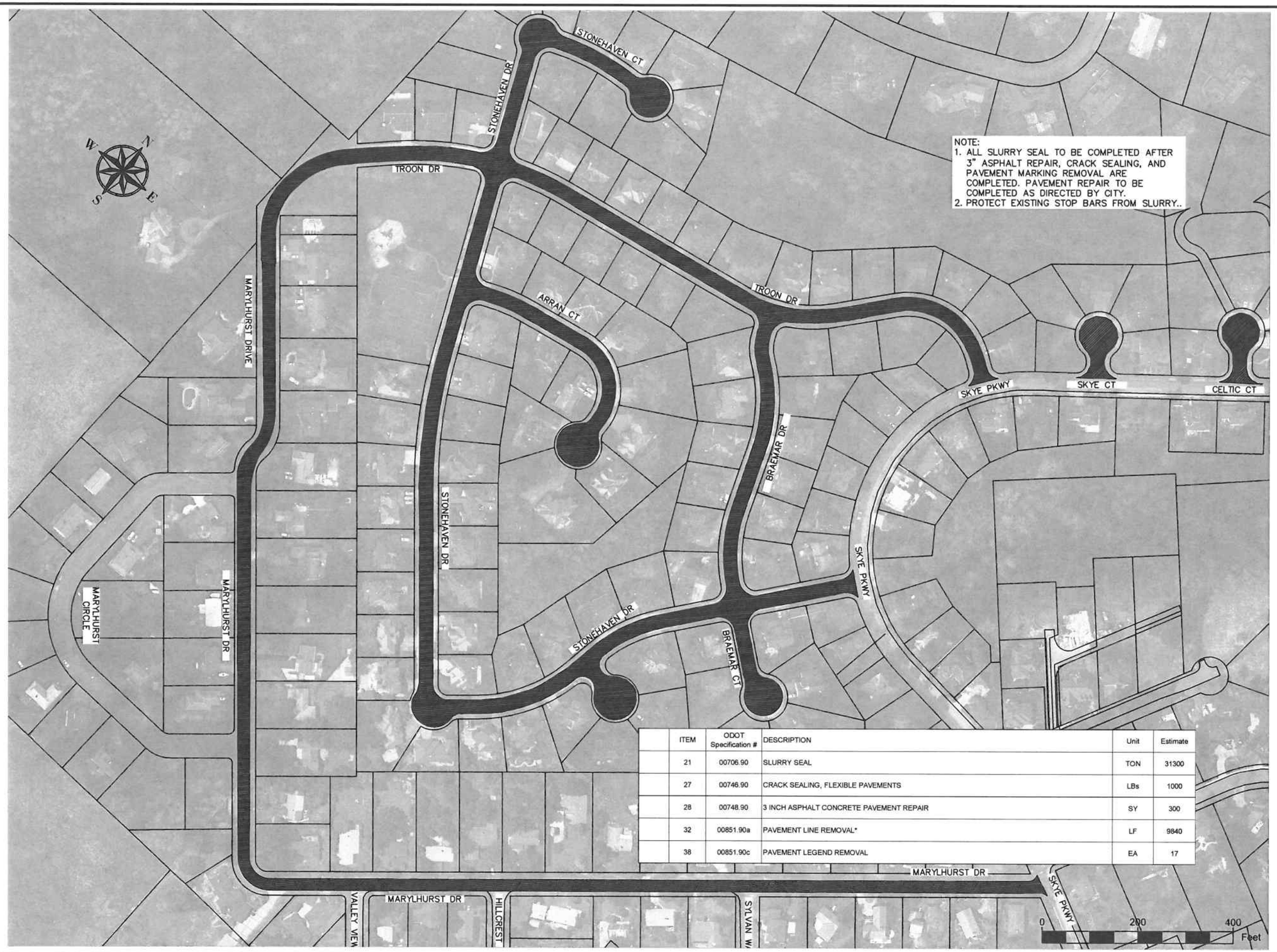
CHECKED BY: LCALVERT
DATE: 5/7/2015

REVISION

DATE	DESCRIPTION

SLURRY SEAL PLAN

S1



NOTE:
1. ALL SLURRY SEAL TO BE COMPLETED AFTER 3" ASPHALT REPAIR, CRACK SEALING, AND PAVEMENT MARKING REMOVAL ARE COMPLETED. PAVEMENT REPAIR TO BE COMPLETED AS DIRECTED BY CITY.
2. PROTECT EXISTING STOP BARS FROM SLURRY..

ITEM	ODOT Specification #	DESCRIPTION	Unit	Estimate
21	00706.90	SLURRY SEAL	TON	31300
27	00746.90	CRACK SEALING, FLEXIBLE PAVEMENTS	LBs	1000
28	00748.90	3 INCH ASPHALT CONCRETE PAVEMENT REPAIR	SY	300
32	00851.90a	PAVEMENT LINE REMOVAL*	LF	9840
38	00851.90c	PAVEMENT LEGEND REMOVAL	EA	17

City of West Linn

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22500 SALAMO ROAD
WEST LINN, OREGON 97068
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FAX: (503) 650-9041

REGISTERED PROFESSIONAL ENGINEER
87272PE
OREGON
JAN 08, 2013
LANCE E. CALVERT

EXPIRES: 12/31/2015

CONTRACTOR

NAME: -N/A
ADDRESS: -N/A

PHONE: -N/A
FAX: -N/A

CITY OF WEST LINN 2015 ROAD PROGRAM

MARYLHURST DR, STONEHAVEN DR, BRAEMAR CT, TROON DR, ARRAN CT, SKYE CT & CELTIC CT

PROJECT NO.: PW-14-16
DESIGNED BY: LCALVERT
DRAWN BY: NBRENNAN

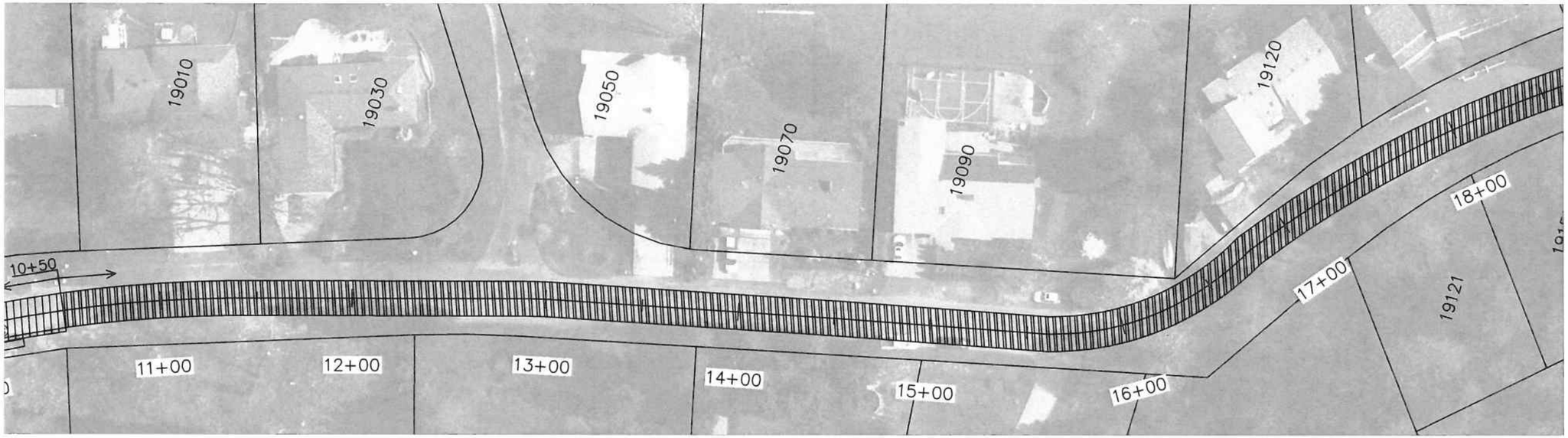
CHECKED BY: LCALVERT
DATE: 5/7/2015

REVISION

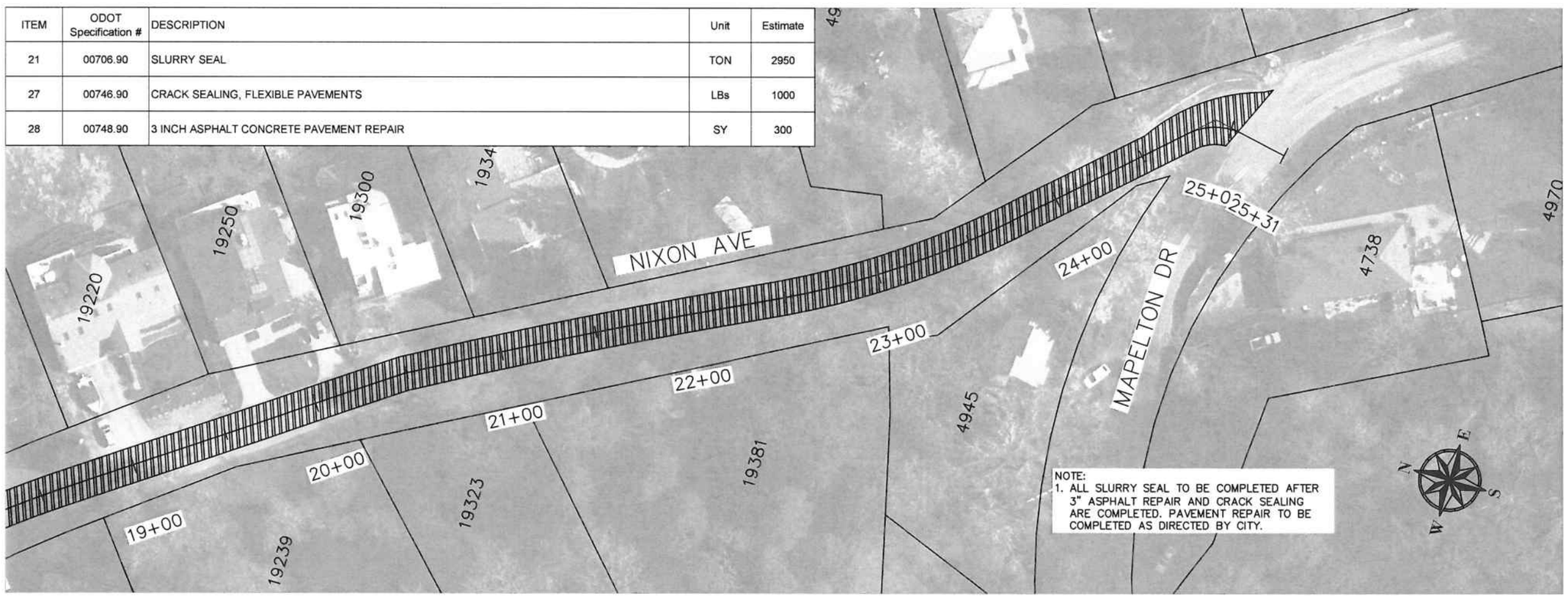
DATE	DESCRIPTION

SLURRY SEAL PLAN

S2



ITEM	ODOT Specification #	DESCRIPTION	Unit	Estimate
21	00706.90	SLURRY SEAL	TON	2950
27	00746.90	CRACK SEALING, FLEXIBLE PAVEMENTS	LBs	1000
28	00748.90	3 INCH ASPHALT CONCRETE PAVEMENT REPAIR	SY	300



City of West Linn

CITY OF WEST LINN
22500 SALAMO ROAD
WEST LINN, OREGON 97068
WWW.WESTLINNOREGON.GOV
PHONE: (503) 567-0331
FAX: (503) 650-9041

REGISTERED PROFESSIONAL ENGINEER
87272PE
OREGON
JAN 08, 2013
LANCE E. CALVERT

EXPIRES: 12/31/2015

CONTRACTOR

NAME: -N/A
ADDRESS: -N/A

PHONE: -N/A
FAX: -N/A

CITY OF WEST LINN 2015 ROAD PROGRAM

NIXON AVE
FROM 19025 NIXON TO MAPLETON DR

PROJECT NO.: PW-14-16
DESIGNED BY: LCALVERT
DRAWN BY: NBRENNAN

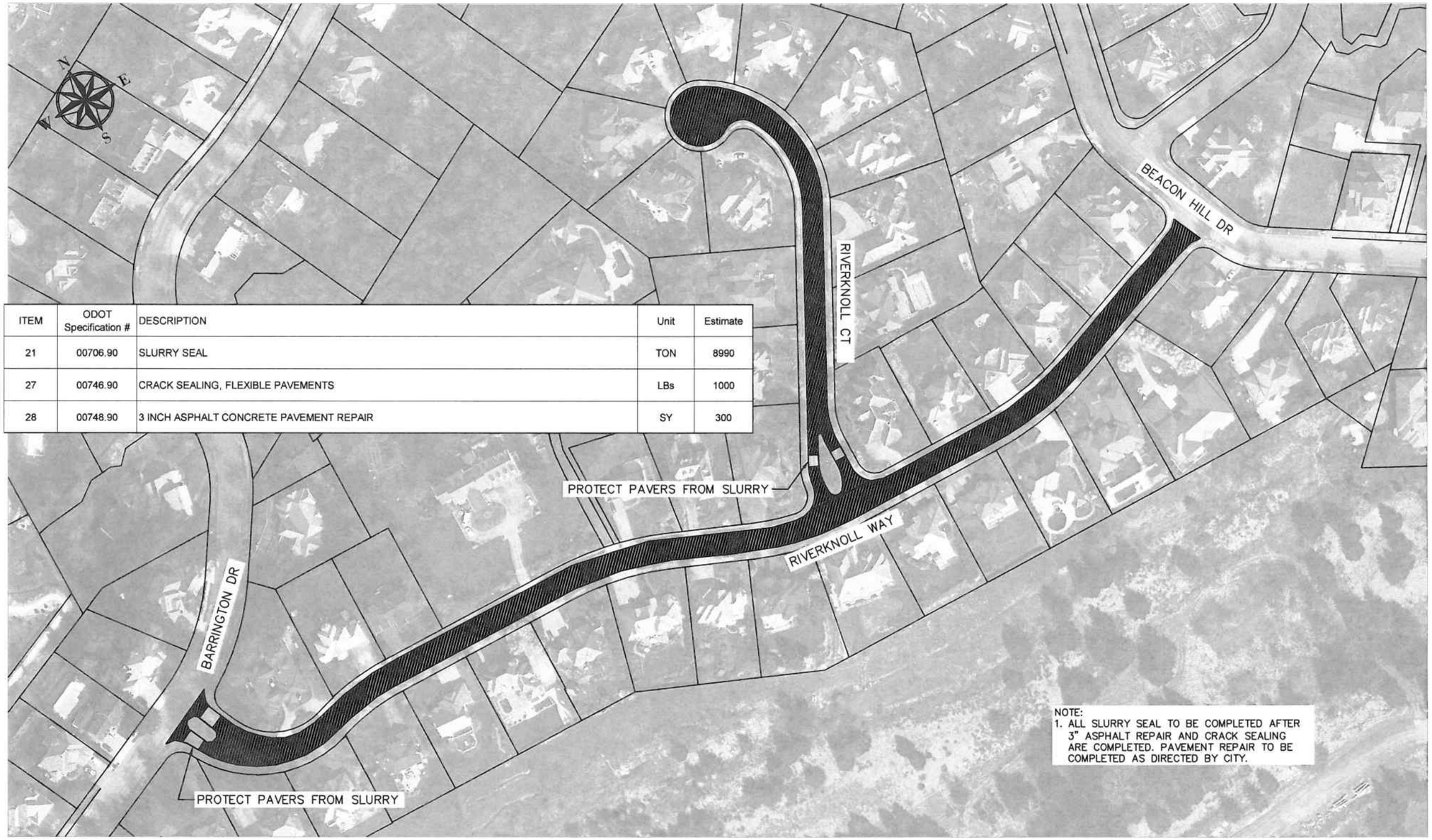
CHECKED BY: LCALVERT
DATE: 5/7/2015

REVISION

DATE	DESCRIPTION

SLURRY SEAL PLAN

S3



ITEM	ODOT Specification #	DESCRIPTION	Unit	Estimate
21	00706.90	SLURRY SEAL	TON	8990
27	00746.90	CRACK SEALING, FLEXIBLE PAVEMENTS	LBs	1000
28	00748.90	3 INCH ASPHALT CONCRETE PAVEMENT REPAIR	SY	300

NOTE:
1. ALL SLURRY SEAL TO BE COMPLETED AFTER 3" ASPHALT REPAIR AND CRACK SEALING ARE COMPLETED. PAVEMENT REPAIR TO BE COMPLETED AS DIRECTED BY CITY.

0 150 300 Feet

City of West Linn

CITY OF WEST LINN
22500 SALAMO ROAD
WEST LINN, OREGON 97068
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PHONE: (503) 567-0331
FAX: (503) 650-9041

REGISTERED PROFESSIONAL ENGINEER 87272PE OREGON JAN 08, 2013 LANCE E. CALVERT

EXPIRES: 12/31/2015

CONTRACTOR

NAME: -N/A
ADDRESS: -N/A

PHONE: -N/A
FAX: -N/A

CITY OF WEST LINN 2015 ROAD PROGRAM

RIVERKNOLL WAY AND RIVERKNOLL CT FROM BARRINGTON RD TO BEACON HILL DR

PROJECT NO.: PW-14-16
DESIGNED BY: LCALVERT
DRAWN BY: NBRENNAN

CHECKED BY: LCALVERT
DATE: 5/7/2015

REVISION

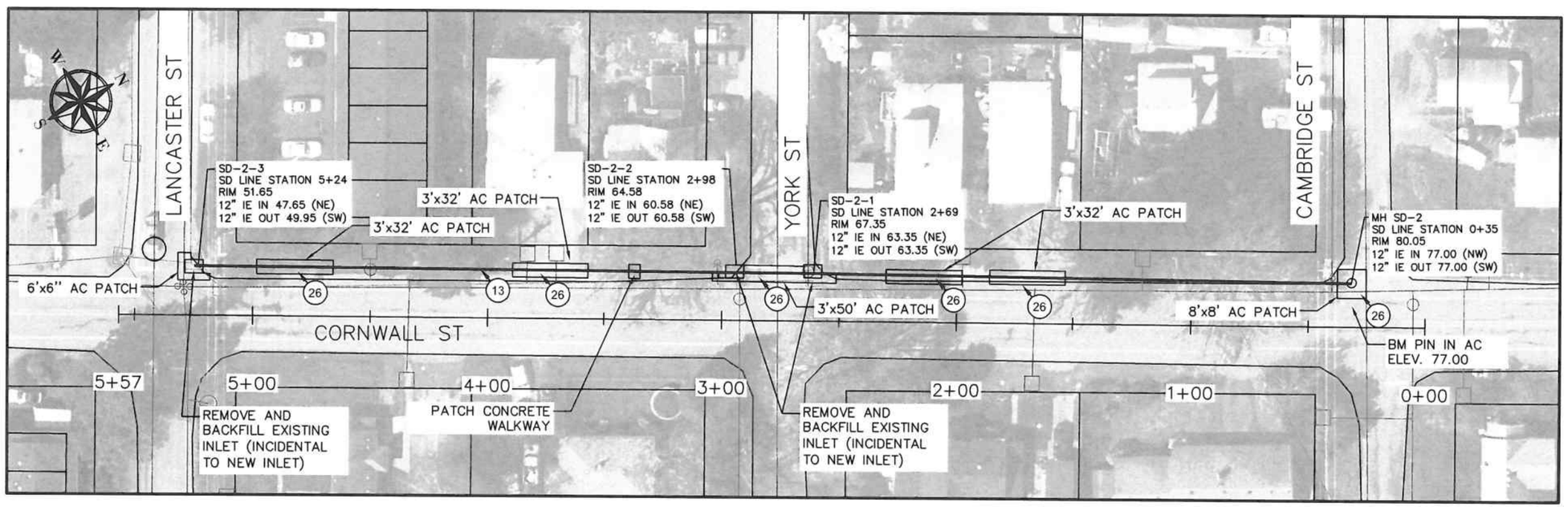
DATE	DESCRIPTION

SLURRY SEAL PLAN

SCALE: 1' = 50' Horizontal

S4

ITEM	ODOT Specification #	DESCRIPTION	Unit	Estimate
11	00490.90g	CONNECTION TO EXISTING STRUCTURES	EA	1
13	00445.91b	12 INCH REINFORCED CONCRETE PIPE	LF	500
14	00470.90a	CONCRETE INLETS, TYPE G-1*	EA	3
26	00745.90	LEVEL 2, 1/2 INCH ACP (DRIVEWAY CONNECTIONS)	TON	12
33	00470.90c	CONCRETE MANHOLES, STANDARD MANHOLE WL-207, WL-605	EA	1



0 50 100 Feet

CITY OF WEST LINN

CITY OF WEST LINN
22500 SALAMO ROAD
WEST LINN, OREGON 97068
WWW.WESTLINNOREGON.GOV
PHONE: (503) 567-0331
FAX: (503) 650-9041

REGISTERED PROFESSIONAL ENGINEER 87272PE OREGON JAN 08, 2013 LANCE E. CALVERT

EXPIRES: 12/31/2015

CONTRACTOR

NAME: -N/A
ADDRESS: -N/A

PHONE: -N/A
FAX: -N/A

CITY OF WEST LINN 2015 ROAD PROGRAM

CORNWALL ST STORM SEWER IMPROVEMENTS

PROJECT NO.: PW-14-16
DESIGNED BY: LCALVERT
DRAWN BY: NBRENNAN

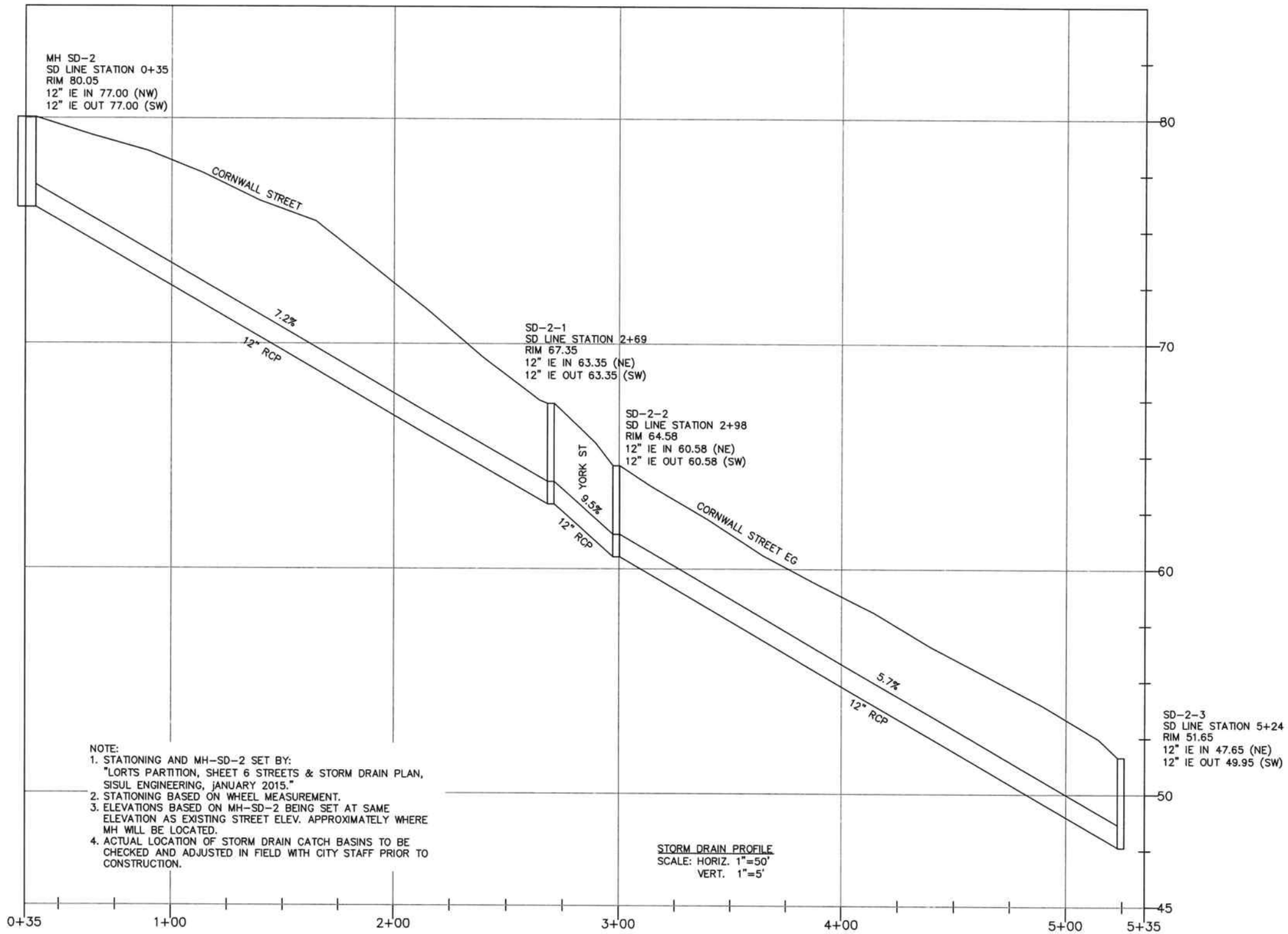
CHECKED BY: LCALVERT
DATE: 5/6/2015

REVISION

DATE	DESCRIPTION

DRAINAGE PLAN

D1.0



NOTE:
1. STATIONING AND MH-SD-2 SET BY: "LORTS PARTITION, SHEET 6 STREETS & STORM DRAIN PLAN, SISUL ENGINEERING, JANUARY 2015."
2. STATIONING BASED ON WHEEL MEASUREMENT.
3. ELEVATIONS BASED ON MH-SD-2 BEING SET AT SAME ELEVATION AS EXISTING STREET ELEV. APPROXIMATELY WHERE MH WILL BE LOCATED.
4. ACTUAL LOCATION OF STORM DRAIN CATCH BASINS TO BE CHECKED AND ADJUSTED IN FIELD WITH CITY STAFF PRIOR TO CONSTRUCTION.

STORM DRAIN PROFILE
SCALE: HORIZ. 1"=50'
VERT. 1"=5'

CITY OF WEST LINN
22500 SALAMO ROAD
WEST LINN, OREGON 97068
WWW.WESTLINNOREGON.GOV
PHONE: (503) 567-0331
FAX: (503) 650-9041

REGISTERED PROFESSIONAL ENGINEER
87272PE
OREGON
JAN 08, 2013
LANCE E. CALVERT

EXPIRES: 12/31/2015

CONTRACTOR

NAME: -N/A
ADDRESS: -N/A

PHONE: -N/A
FAX: -N/A

CITY OF WEST LINN 2015 ROAD PROGRAM

CORNWALL ST STORM SEWER IMPROVEMENTS

PROJECT NO.: PW-14-16
DESIGNED BY: LCALVERT
DRAWN BY: NBRENNAN

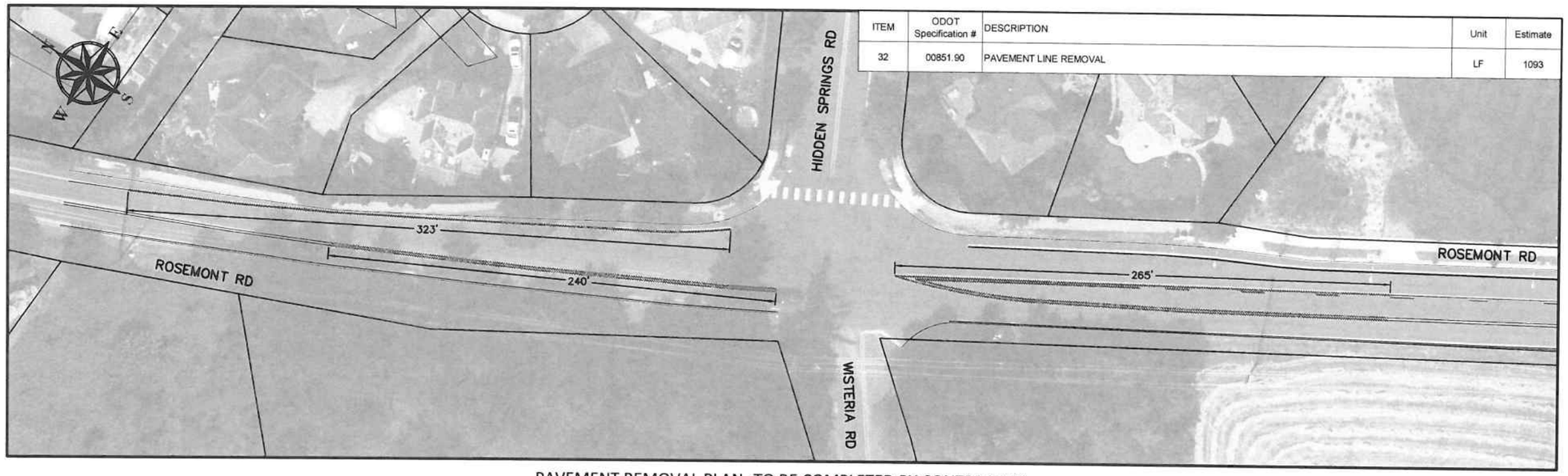
CHECKED BY: LCALVERT
DATE: 5/6/2015

REVISION

DATE	DESCRIPTION

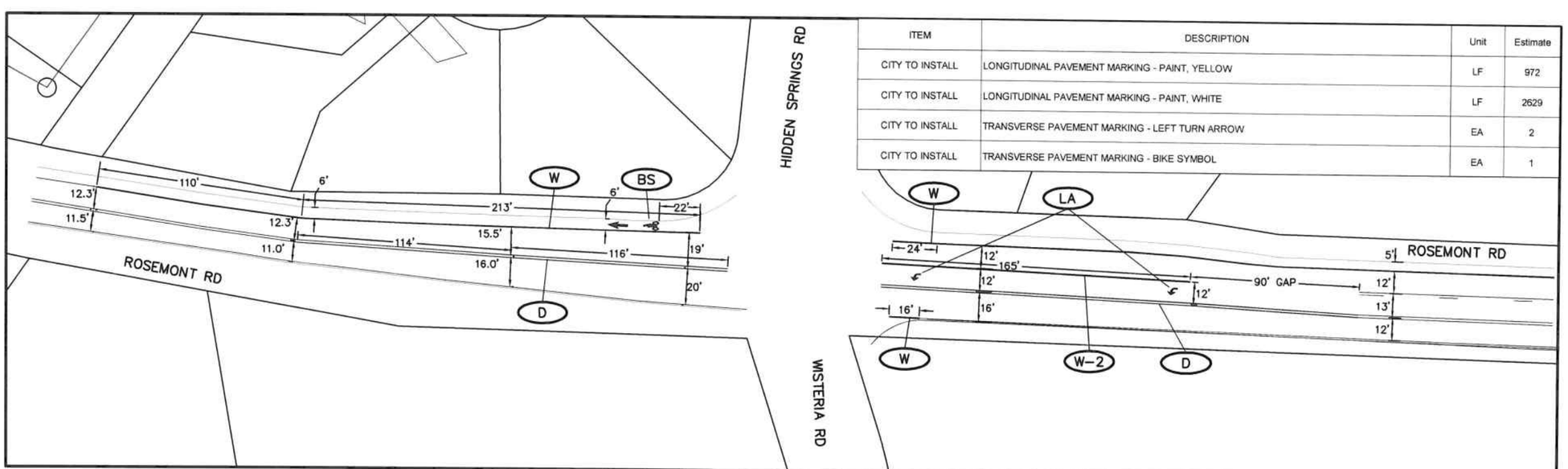
DRAINAGE PROFILE

D1.1



ITEM	ODOT Specification #	DESCRIPTION	Unit	Estimate
32	00851.90	PAVEMENT LINE REMOVAL	LF	1093

PAVEMENT REMOVAL PLAN -TO BE COMPLETED BY CONTRACTOR



PAVEMENT MARKING PLAN - TO BE COMPLETED BY CITY

ITEM	DESCRIPTION	Unit	Estimate
CITY TO INSTALL	LONGITUDINAL PAVEMENT MARKING - PAINT, YELLOW	LF	972
CITY TO INSTALL	LONGITUDINAL PAVEMENT MARKING - PAINT, WHITE	LF	2629
CITY TO INSTALL	TRANSVERSE PAVEMENT MARKING - LEFT TURN ARROW	EA	2
CITY TO INSTALL	TRANSVERSE PAVEMENT MARKING - BIKE SYMBOL	EA	1

0 60 120 Feet

City of West Linn

CITY OF WEST LINN
22500 SALAMO ROAD
WEST LINN, OREGON 97068
WWW.WESTLINNOREGON.GOV
PHONE: (503) 567-0331
FAX: (503) 650-9041

REGISTERED PROFESSIONAL ENGINEER 87272PE OREGON JAN 08, 2013 LANCE E. CALVERT

EXPIRES: 12/31/2015

CONTRACTOR

NAME: -N/A
ADDRESS: -N/A

PHONE: -N/A
FAX: -N/A

CITY OF WEST LINN 2015 ROAD PROGRAM

ROSEMONT RD AT HIDDEN SPRINGS

PROJECT NO.: PW-14-16
DESIGNED BY: LCALVERT
DRAWN BY: NBRENNAN

CHECKED BY: LCALVERT
DATE: 5/6/2015

REVISION

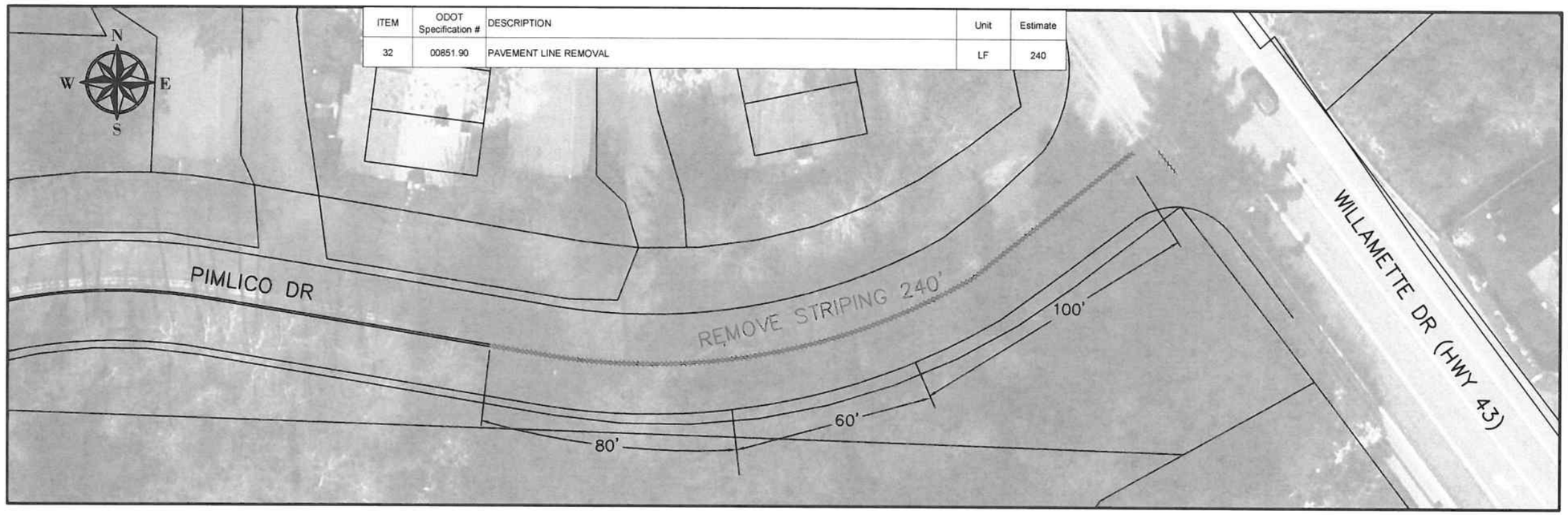
DATE	DESCRIPTION

PAVEMENT MARKING PLAN

SCALE: 1' = 60' Horizontal

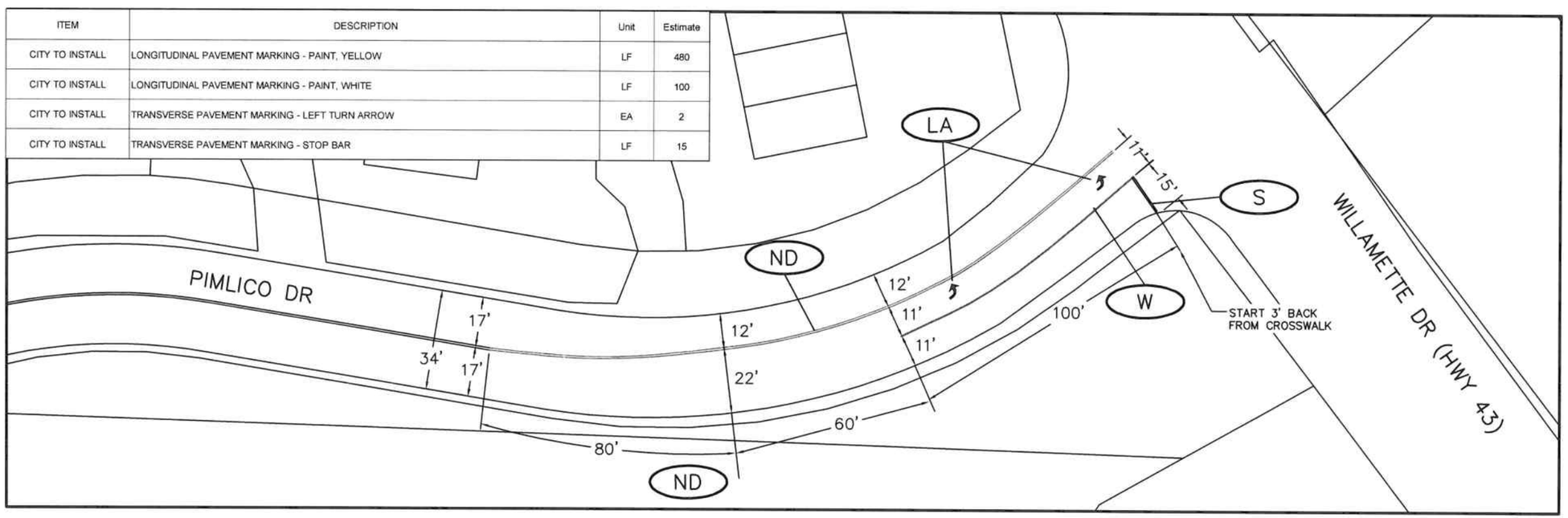
M1.0

ITEM	ODOT Specification #	DESCRIPTION	Unit	Estimate
32	00851.90	PAVEMENT LINE REMOVAL	LF	240



PAVEMENT REMOVAL PLAN -TO BE COMPLETED BY CONTRACTOR

ITEM	DESCRIPTION	Unit	Estimate
CITY TO INSTALL	LONGITUDINAL PAVEMENT MARKING - PAINT, YELLOW	LF	480
CITY TO INSTALL	LONGITUDINAL PAVEMENT MARKING - PAINT, WHITE	LF	100
CITY TO INSTALL	TRANSVERSE PAVEMENT MARKING - LEFT TURN ARROW	EA	2
CITY TO INSTALL	TRANSVERSE PAVEMENT MARKING - STOP BAR	LF	15



PAVEMENT MARKING PLAN - TO BE COMPLETED BY CITY

0 40 80 Feet

City of West Linn

CITY OF WEST LINN
22500 SALAMO ROAD
WEST LINN, OREGON 97068
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REGISTERED PROFESSIONAL ENGINEER 87272PE OREGON JAN. 08, 2013 LANCE E. CALVERT

EXPIRES: 12/31/2015

CONTRACTOR

NAME: -N/A
ADDRESS: -N/A

PHONE: -N/A
FAX: -N/A

CITY OF WEST LINN
2015 ROAD PROGRAM

PIMLICO DR
AT WILLAMETTE DR

PROJECT NO.: PW-14-16
DESIGNED BY: LCALVERT
DRAWN BY: NBRENNAN

CHECKED BY: LCALVERT
DATE: 5/6/2015

REVISION

DATE	DESCRIPTION

PAVEMENT MARKING PLAN

M2.0

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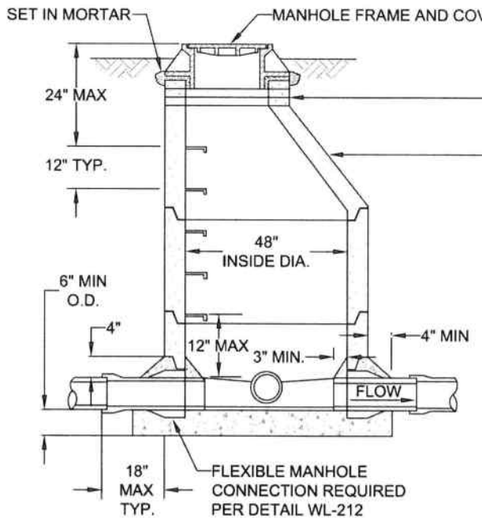


NOTE:

MANHOLE LID TO BE 1' ABOVE FINISH GRADE IN UNPAVED EASEMENTS.

GRADE RINGS - VARIABLE, MAX. 3 LAYERS, 12" MAX

SLOPE OF PRECAST ECCENTRIC CONE SHALL FACE DOWN GRADE

PRECAST SECTIONS AND POURED CONCRETE BASES SHALL CONFORM TO CITY STANDARD SPECIFICATIONS.

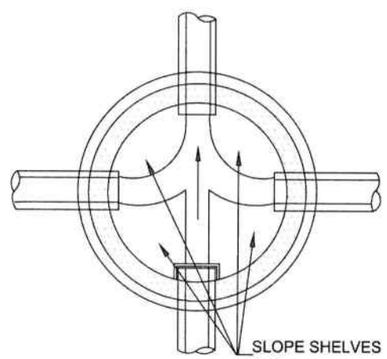
ALL JOINTS SHALL BE SEALED WITH WITH PREFORMED PLASTIC OR RUBBER RING TO FORM A WATER TIGHT SEAL.

LOCATE STEPS ON UPSTREAM SIDE OF MANHOLE.

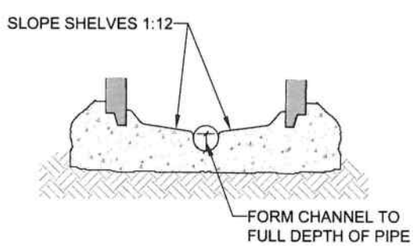
NOTE:

POLYETHYLENE STEPS/IRON REINFORCEMENT 8" x 12" WIDE, 2" DROP, EMBEDDED 3", ON 12" CENTERS (TYPICAL)

MANHOLES SHALL HAVE A 12" MIN. 24" MAX. BOTTOM RISER, TO BE BEDDED IN THE CONCRETE AS THE BASE TAKES ITS INITIAL SET.



PLAN



NOTE:

CHANNELS MUST BE ABLE TO PASS A 7"X30" CYLINDER INTO PIPES. SHELF SHALL NOT BE BELOW THE TOP OF THE PIPE.

STANDARD MANHOLE FOR LESS THAN 36" PIPE

City of West Linn

DATE:	2010
DRAWING NO.	WL-207
FILE NO.	

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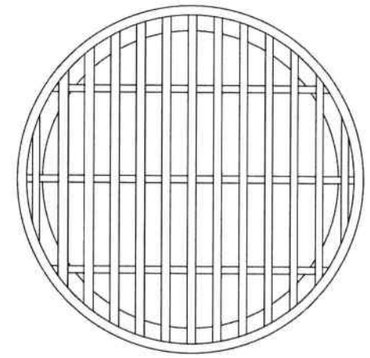
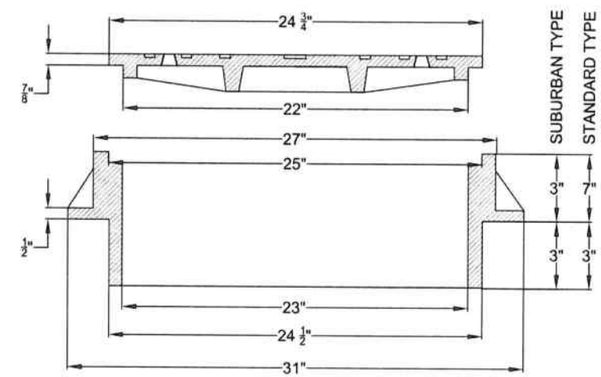


GRATE

STORM



NOTE:

1. USE SUBURBAN TYPE ONLY IN NON-TRAFFIC AREAS, AND ONLY WITH APPROVAL BY THE CITY.
2. COVER AND FRAME SHALL BE GRAY CAST IRON ASTM A-48 CLASS 30.
3. COVER AND FRAME TO BE MACHINED TO A TRUE BEARING ALL AROUND.
4. NOTCH LID FOR LIFTING HOOK.
5. OPEN GRATES REQUIRE APPROVAL BY CITY, AND MUST BE BICYCLE SAFE IF USED IN TRAFFIC AREAS.

MANHOLE FRAME AND COVER

City of West Linn

DATE:	2010
DRAWING NO.	WL-605
FILE NO.	

City of West Linn

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REGISTERED PROFESSIONAL ENGINEER 87272PE OREGON JAN 08, 2013 LANCE E. CALVERT

EXPIRES: 12/31/2015

CONTRACTOR

NAME: -N/A
ADDRESS: -N/A

PHONE: -N/A
FAX: -N/A

CITY OF WEST LINN
2015 ROAD PROGRAM

WEST LINN STANDARD DETAILS

PROJECT NO.:	PW-14-16
DESIGNED BY:	LCALVERT
DRAWN BY:	NBRENNAN
CHECKED BY:	LCALVERT
DATE:	5/6/2015

REVISION

DATE	DESCRIPTION

PAVEMENT MARKING PLAN

SD

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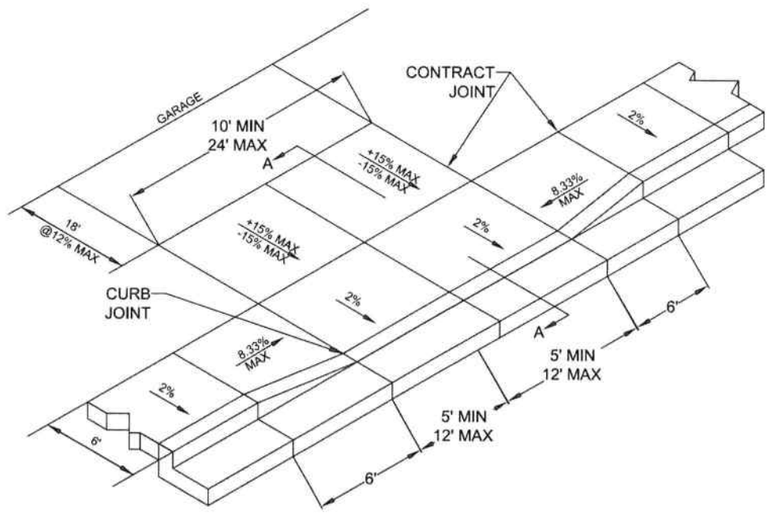
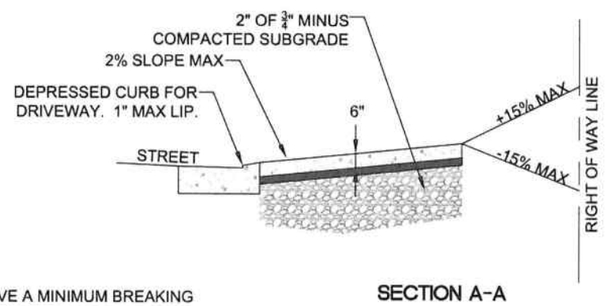


SIDEWALK ADJACENT TO CURB



SECTION A-A

NOTE:

1. CONCRETE SHALL HAVE A MINIMUM BREAKING STRENGTH OF 3300 PSI AFTER 28 DAYS 6 SACK MIX
2. CURB SHALL BE TROWELED JOINT WITH MIN. 1/2" RADIUS ALONG BACK OF CURB
3. DRIVEWAY SHALL BE A MINIMUM 6" THICK
4. DRIVEWAY CURB CUT SHALL COMPLY WITH THE CONDITIONS OF 5.0070, "WIDTH AND LOCATION OF CURB CUTS"
5. FOR REPLACEMENT OF EXISITNG APPROACH:

   A. MUST MEET CURRENT ADA REQUIREMENTS TO GREATEST DEGREE POSSIBLE
   B. DAMAGED ROADWAY MUST BE SAWCUT AND REPAVED WITH CLASS C HOT MIX ASPHALT

RESIDENTIAL DRIVEWAY WITH SIDEWALK ADJACENT TO CURB

City of West Linn

DATE:	2010
DRAWING NO.	WL-503B
FILE NO.	

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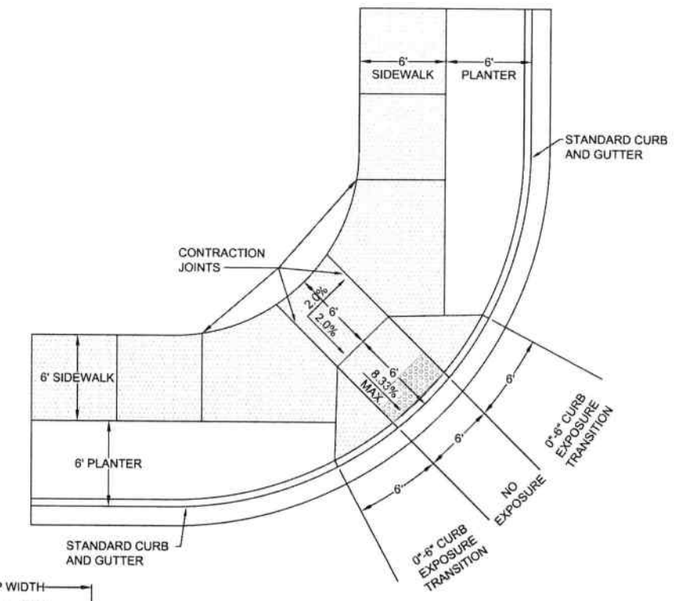

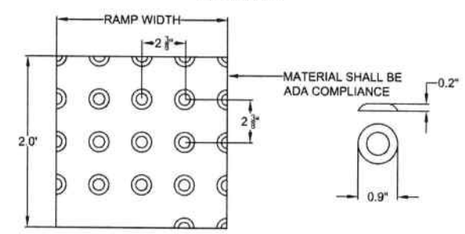

RAMP TEXTURE PATTERN DETAIL

TRUNCATED DOME DETAIL

NOTE:

1. LANDING AT TOP OF RAMP SHALL NOT EXCEED 2% IN ANY DIRECTION AND SHALL BE A MINIMUM OF 60" x 60".
2. RAMP CROSS SLOPE SHALL NOT EXCEED 2% (AS MEASURED PERPENDICULAR TO PEDESTRIAN TRAFFIC FLOW).
3. TRUNCATED DOME MUST EXTEND THE FULL WIDTH OF THE RAMP AND COVER THE FIRST 2 FEET OF THE RAMP CLOSEST TO THE STREET.
4. TRANSITIONS FROM THE RAMP TO THE WALKWAY, GUTTER, AND STREET MUST BE FLUSH (LEVEL) AND FREE OF ABRUPT LEVEL CHANGES.
5. THE GUTTER OR ADJACENT ROADWAY MUST HAVE A SLOPE OF NO MORE THAN 5 PERCENT (1:20) TOWARD THE RAMP.
6. FLARED SIDES ("WING") OF THE CURB RAMP SHALL NOT EXCEED 10% IN SLOPE (8.33% IF PEDESTRIAN TRAVEL IS REQUIRED OVER THEM PER ADA STANDARDS - I.E. IF MINIMUM 48" x 48" (FOR EXISTING SITES ONLY) LANDING IS NOT PROVIDED AT TOP OF RAMP).
7. CONCRETE STRENGTH SHALL BE 3300 PSI.
8. PLACE CONTRACTION JOINTS AS SHOWN ABOVE.
9. NO ABOVE GROUND UTILITIES ARE PERMITTED WITHIN RAMP AREA.
10. WHEN EITHER OPPOSING CURB RAMP HAS AN EXISTING TWIN RAMP, USE DETAIL WL-507B.

SINGLE CURB RAMP (ALLOWED WITH CITY ENGINEER APPROVAL ONLY)

City of West Linn

DATE:	2010
DRAWING NO.	WL-507A
FILE NO.	

City of West Linn

CITY OF WEST LINN
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WEST LINN, OREGON 97068
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REGISTERED PROFESSIONAL ENGINEER 87272PE OREGON JAN 08, 2015 LANCE E. CALVERT

EXPIRES: 12/31/2015

CONTRACTOR

NAME: -N/A
ADDRESS: -N/A

PHONE: -N/A
FAX: -N/A

CITY OF WEST LINN
2015 ROAD PROGRAM

WEST LINN STANDARD DETAILS

PROJECT NO.:	PW-14-16
DESIGNED BY:	LCALVERT
DRAWN BY:	NBRENNAN
CHECKED BY:	LCALVERT
DATE:	5/6/2015

REVISION

DATE	DESCRIPTION

PAVEMENT MARKING PLAN

SD

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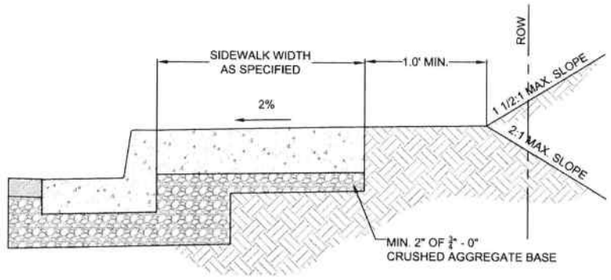
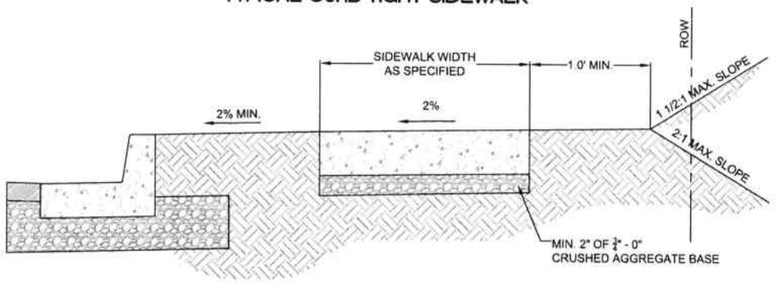


TYPICAL CURB TIGHT SIDEWALK



SIDEWALK AWAY FROM CURB

NOTE:

1. CONCRETE SHALL BE 3300 PSI AT 28 DAYS.
2. PANEL LENGTHS SHALL BE EQUAL TO THE SIDEWALK WIDTH, BUT MAY BE ADJUSTED WITH THE CITY ENGINEER'S APPROVAL.
3. CONTRACTION JOINTS (1/3RD OF THE THICKNESS OF CONCRETE) SHALL BE PLACED EVERY THIRD PANEL, WITH A MAX. SPACING OF 15 FEET.
   JOINTS SHALL ALSO BE PLACED AT THE SIDES OF DRIVEWAY APPROACHES, UTILITY VAULTS, AND WHEELCHAIR RAMPS.
4. A CURING COMPOUND SHALL BE USED. WHITE REFLECTIVE SHEETING SHALL BE USED IN CASE OF RAIN.
5. FOR SIDEWALKS ADJACENT TO THE CURB AND POURED AT THE SAME TIME AS THE CURB, THE JOINT BETWEEN THEM SHALL BE A TROWELED JOINT WITH A MIN. 1/2" RADIUS.
6. THE SIDEWALK SHALL HAVE A MIN. THICKNESS OF 6" IF THE SIDEWALK IS INTENDED AS A PORTION OF THE THE DRIVEWAY. OTHERWISE, THE SIDEWALK SHALL HAVE A MIN. THICKNESS OF 4".
7. DRAIN BLOCKOUTS IN THE CURB SHALL BE EXTENDED TO THE BACK OF THE SIDEWALK WITH A 3" DIAMETER PLASTIC PIPE AT A 2% SLOPE. A CONTRACTION JOINT SHALL BE PLACED OVER THE PIPE.

CONCRETE SIDEWALK CROSS SECTION

City of West Linn | DATE: 2010 | DRAWING NO. WL-508 | FILE NO.

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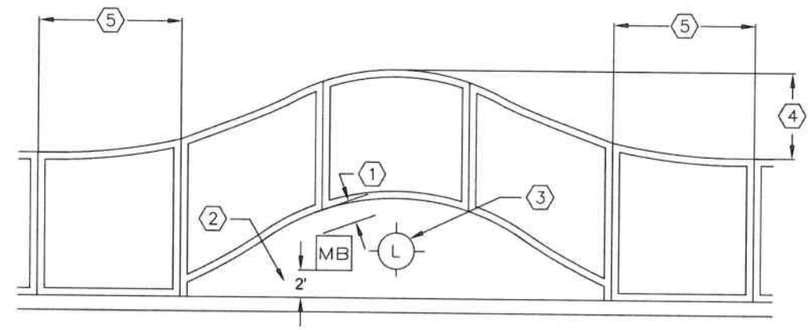

SPECIFICATIONS:

1. MIN. 3" CLEARANCE BETWEEN FACE OF SIDEWALK & CLOSEST POINT ON BACK OF MAILBOX.
2. CENTER OF MAILBOX SHALL BE 2' FROM FACE OF CURB.
3. LIGHT POLES & FIRE HYDRANTS ARE TO BE CENTERED IN ISLAND.
4. 2' FOR FIRE HYDRANTS & LIGHTPOLES
   3' FOR MAILBOXES
5. THE REVERSE CURVE SHALL EXTEND 5' BEYOND THE RE-ROUTED AREA.

NOTE:

1. SIDEWALKS TO BE RE-ROUTED AROUND ALL LIGHT POLES, MAILBOXES, & FIRE HYDRANTS THAT EXIST IN THE SIDEWALK AREA.
2. MAILBOXES SHALL NOT BE INSTALLED ADJACENT TO FIRE HYDRANTS.
3. SIDEWALKS SHALL NOT BE RE-ROUTED IF EXISTING METER BOXES, UTILITY POLES, ETC., WILL BE IN RE-ROUTED SIDEWALK. A MINIMUM UNOBSTRUCTED SIDEWALK WIDTH MUST BE MAINTAINED PER ADA STANDARDS.
4. IF THE SIDEWALK IS IN PLACE PRIOR TO THE INSTALLATION OF THE LIGHT POLE, MAILBOX, OR FIRE HYDRANT, THEN THE SIDEWALK SHALL BE REMOVED AND RE-ROUTED.

CONCRETE SIDEWALK CLEARANCES FOR CURB TIGHT SIDEWALKS

City of West Linn | DATE: 2010 | DRAWING NO. WL-509 | FILE NO.

City of West Linn
CITY OF WEST LINN
22500 SALAMO ROAD
WEST LINN, OREGON 97068
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REGISTERED PROFESSIONAL ENGINEER 87277PE OREGON JAN 08, 2013 LANCE E. CALVERT

EXPIRES: 12/31/2015

CONTRACTOR

NAME: -N/A
ADDRESS: -N/A

PHONE: -N/A
FAX: -N/A

CITY OF WEST LINN
2015 ROAD PROGRAM

WEST LINN STANDARD DETAILS

PROJECT NO.: PW-14-16
DESIGNED BY: LCALVERT
DRAWN BY: NBRENNAN

CHECKED BY: LCALVERT
DATE: 5/6/2015

REVISION

DATE	DESCRIPTION

PAVEMENT MARKING PLAN

SD

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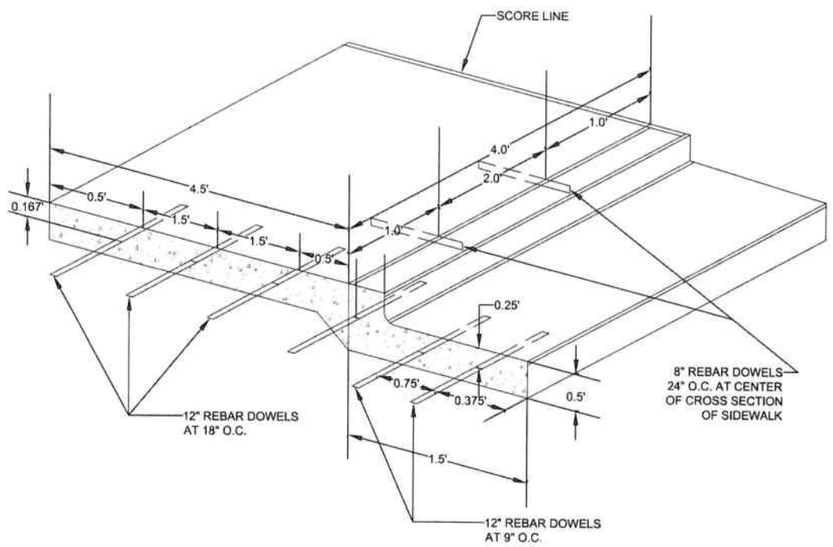

CURB, GUTTER AND SIDEWALK DOWELING DETAIL

City of West Linn

DATE: 2010
DRAWING NO. WL-511
FILE NO.

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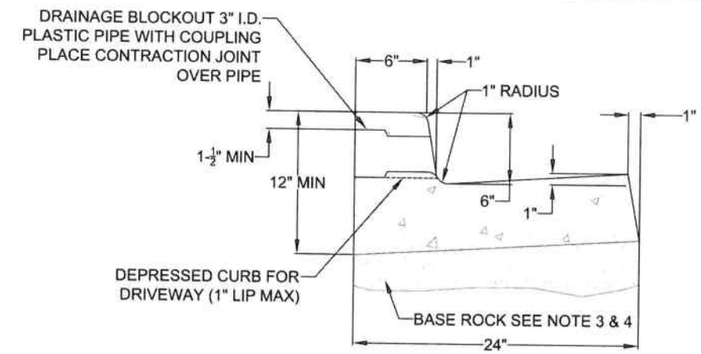
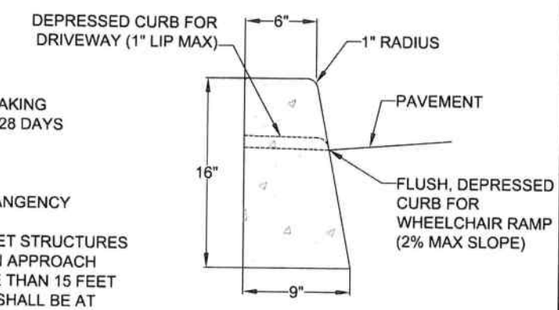


FLUSH, DEPRESSED CURB FOR WHEELCHAIR RAMP 2% MAX SLOPE

TYPICAL CURB AND GUTTER



TYPICAL STRAIGHT CURB

NOTE:

1. CONCRETE SHALL HAVE A BREAKING STRENGTH OF 3300 PSI AFTER 28 DAYS
2. CONTRACTION JOINTS:
   A) TO BE PROVIDED:
      -AT EACH POINT OF TANGENCY
      -AT EACH COLD JOINT
      -AT EACH SIDE OF INLET STRUCTURES
      -AT BOTH SIDES OF AN APPROACH
   B) SPACING TO BE NOT MORE THAN 15 FEET
   C) THE DEPTH OF THE JOINT SHALL BE AT LEAST 1/3 OF THE THICKNESS OF CONCRETE
   D) EXPANSION JOINTS SHALL NOT BE USED
3. BASE ROCK - 1-1/2"-0", 95% COMPACTION PER AASHTO T-180 ROCK SHALL BE TO SUBGRADE OF THE STREET SECTION OR 4" IN DEPTH, WHICHEVER IS GREATER
4. FULL DEPTH PREPARED ROCK SECTION SHALL EXTEND 1' HORIZONTALLY BEYOND BOTH SIDES OF CURB AND GUTTER
5. DRAINAGE BLOCK - 3" DIA. PLASTIC PIPE
   A) DRAINAGE ACCESS THROUGH EXISTING CURBS SHALL BE DONE BY:
      -CORE DRILLING
      -VERTICAL SAWCUT OF CURB 24" EACH SIDE OF DRAIN AND RE-POURED TO FULL DEPTH OF CURB
6. STAMP TOP OF CURB WITH "W" AT WATER SERVICE CROSSING AND "S" AT SANITARY LATERAL CROSSING

TYPICAL CURBS

City of West Linn

DATE: 2010
DRAWING NO. WL-501
FILE NO.

City of West Linn

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REGISTERED PROFESSIONAL ENGINEER 87272PE OREGON JAN 08, 2013 LANCE E. CALVERT

EXPIRES: 12/31/2015

CONTRACTOR

NAME: -N/A
ADDRESS: -N/A

PHONE: -N/A
FAX: -N/A

CITY OF WEST LINN
2015 ROAD PROGRAM

WEST LINN STANDARD DETAILS

PROJECT NO.: PW-14-16
DESIGNED BY: LCALVERT
DRAWN BY: NBRENNAN

CHECKED BY: LCALVERT
DATE: 5/6/2015

REVISION

DATE	DESCRIPTION

PAVEMENT MARKING PLAN

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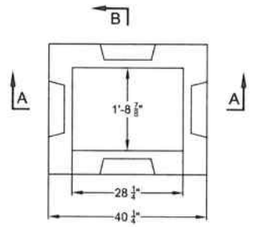
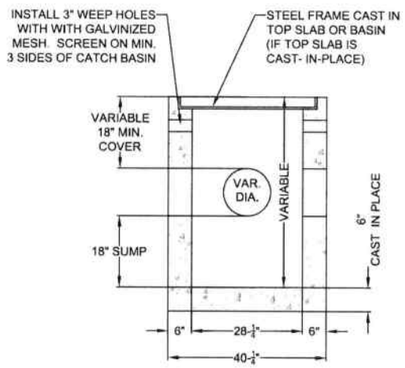


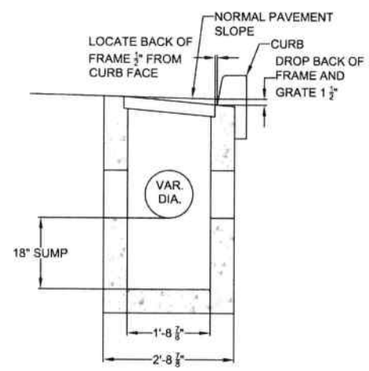
TOP VIEW

NOTE:

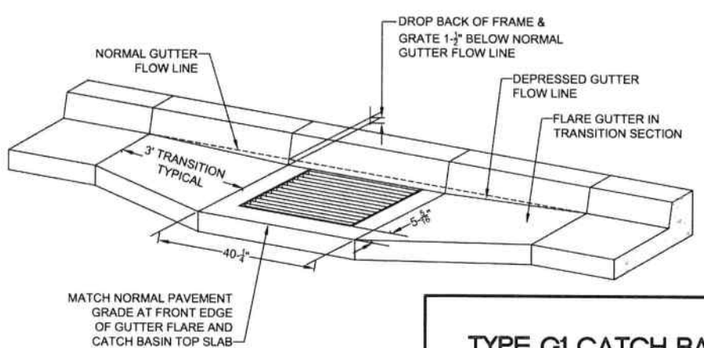
1. CONCRETE STRENGTH SHALL BE 3300 PSI.
2. PRECAST BASE WALLS SHALL BE A MINIMUM 4" THICK. CAST-IN-PLACE BASE WALLS SHALL BE 6" THICK.



SECTION A-A



SECTION B-B



NOTE:

PRECAST TOP SLAB SHOWN WITH GUTTER TRANSITION FLARE IF THE TOP SLAB IS CAST-IN-PLACE, NO FLARE IS REQUIRED IN THE TRANSITION SECTION: MATCH THE TOP FRONT EDGE OF THE FRAME AND THE TOP FRONT EDGE OF THE CAST-IN-PLACE TOP SLAB TO THE NORMAL PAVEMENT GRADE.

TYPE G1 CATCH BASIN WITH SUMP

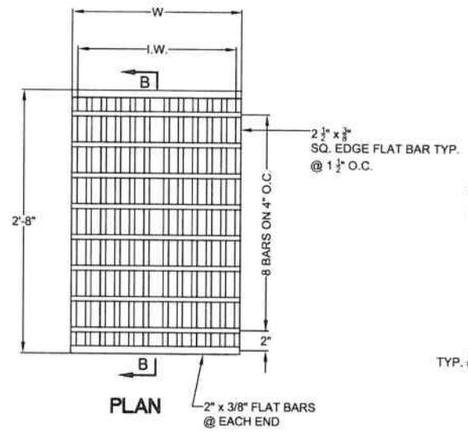
City of West Linn

DATE: 2010

DRAWING NO. WL-602A

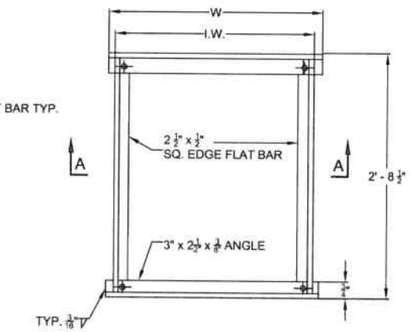
FILE NO.

THIS DETAIL DRAWING SHALL NOT BE ALTERED OR CHANGED IN ANY MANNER EXCEPT BY THE CITY ENGINEER. IT IS THE RESPONSIBILITY OF THE USER TO ACQUIRE THE MOST CURRENT VERSION OF THE DETAIL.



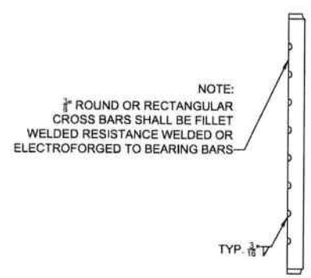
PLAN

TYPE	W	I.W
STANDARD	1'-9"	1'-8 1/4"

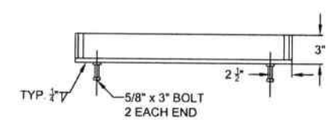


PLAN

TYPE	DIA. PIPE	W	I.W
STANDARD	10"-12"	1'-10 3/4"	1'-9 3/8"



SECTION B-B



SECTION A-A

NOTE:

USE VERTICAL BEADS IN CORNERS, FILLET WELD JOINT ON BOTTOM OF FRAME. GRATE MUST REST FLAT ON FRAME SURFACE.

FRAME AND GRATE FOR GUTTER AND CURB INLET

City of West Linn

DATE: 2010

DRAWING NO. WL-602B

FILE NO.

City of West Linn

CITY OF WEST LINN
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REGISTERED PROFESSIONAL ENGINEER 87272PE OREGON JAN 08, 2013 LANCE E. CALVERT

EXPIRES: 12/31/2015

CONTRACTOR

NAME: -N/A
ADDRESS: -N/A

PHONE: -N/A
FAX: -N/A

CITY OF WEST LINN 2015 ROAD PROGRAM

WEST LINN STANDARD DETAILS

PROJECT NO.: PW-14-16
DESIGNED BY: LCALVERT
DRAWN BY: NBRENNAN

CHECKED BY: LCALVERT
DATE: 5/6/2015

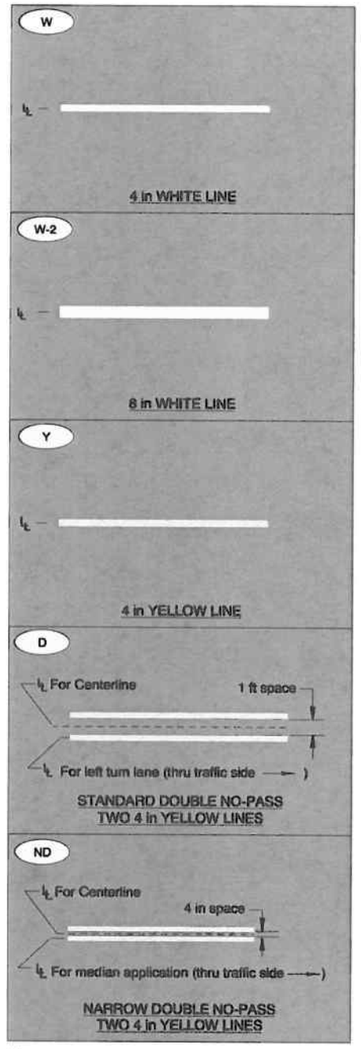
REVISION

DATE	DESCRIPTION

PAVEMENT MARKING PLAN

SD

Appendix D: Bubble Note Index



Section B-4 Edge Lines

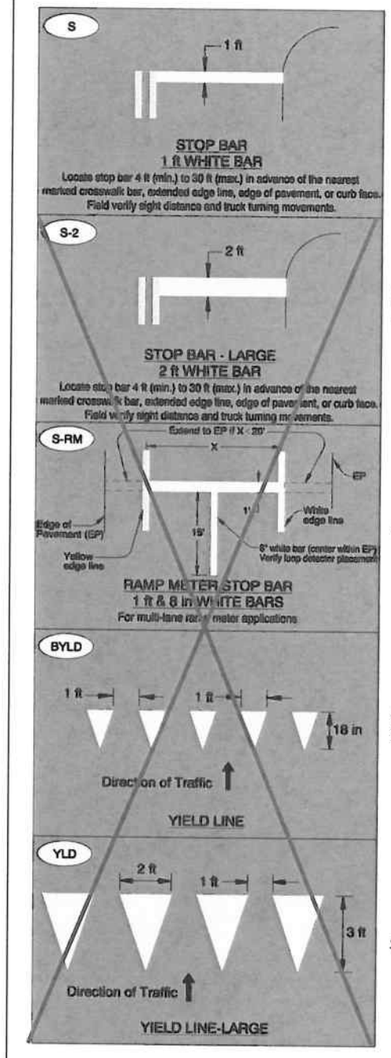
Section B-3 Lane Lines
Section B-6 Dotted Lane Lines
Section B-8 Channelizing Lines & Traversable Channelizing Islands
Section B-11 Right Turn Lanes
Section B-12 Right Turn Slip Lanes
Section B-13 At-Grade Right Turn Acceleration Lanes
Section B-14 Left Turn Lanes
Section B-17 Interchange Ramps: Entrance Ramps
Section B-18 Interchange Ramps: Exit Ramps
Section B-21 Slow Moving Vehicle & Bus Turnouts
Section B-30 Bicycle Facility Markings

Section B-1 Centerlines
Section B-4 Edge Lines
Section B-9 Traversable Medians
Section B-10 Non-Traversable Medians and Channelizing Islands
Section B-17 Interchange Ramps: Entrance Ramps
Section B-18 Interchange Ramps: Exit Ramps
Section B-19 Interchange Ramps: Ramp Terminals

Section B-1 Centerlines
Section B-2 No-Passing Zone Markings
Section B-7 Lane Reduction & Addition Transitions
Section B-14 Left Turn Lanes
Section B-19 Interchange Ramps: Ramp Terminals

Section B-1 Centerlines
Section B-2 No-Passing Zone Markings
Section B-9 Traversable Medians
Section B-14 Left Turn Lanes
Section B-20 Approach to a Fixed Obstruction

℄ – Lane line dimensions are shown on the striping plans.



Section B-22 Stop Bars

Section B-22 Stop Bars
Section B-24 Crosswalk Markings
Section B-28 Railroad Crossing Markings

Section B-22 Stop Bars

Section B-16 Roundabouts
Section B-23 Yield Lines

Section B-23 Yield Lines

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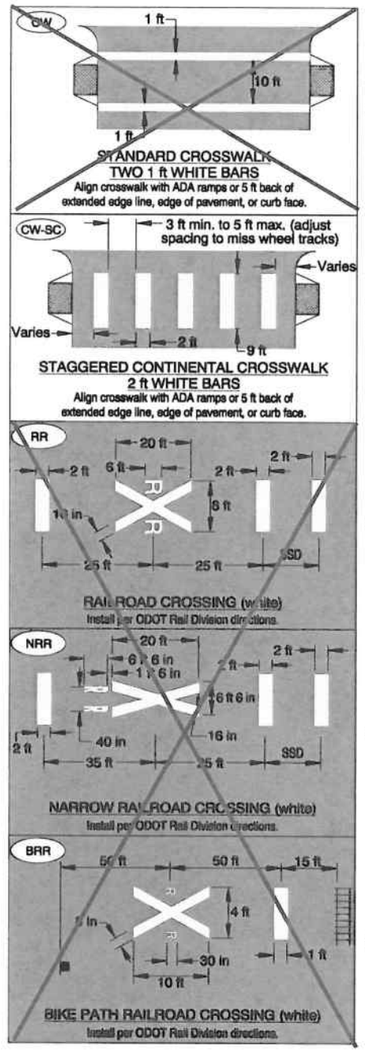


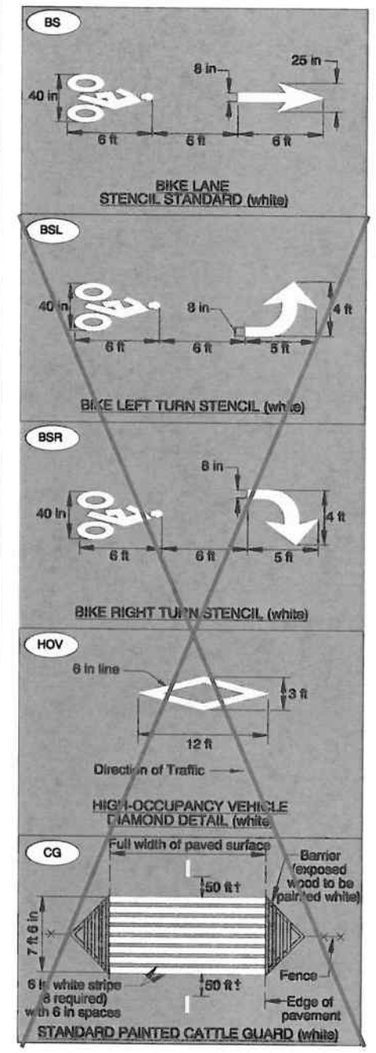
Section B-24 Crosswalk Markings

Section B-11 Right Turn Lanes
Section B-16 Roundabouts
Section B-24 Crosswalk Markings

Section B-28 Railroad Crossing Markings

Section B-28 Railroad Crossing Markings

Section B-28 Railroad Crossing Markings



Section B-30 Bicycle Facility Markings

Section B-30 Bicycle Facility Markings

Section B-30 Bicycle Facility Markings

Section B-29 Preferential Lane Markings

Section B-31 Cattle Guard Markings

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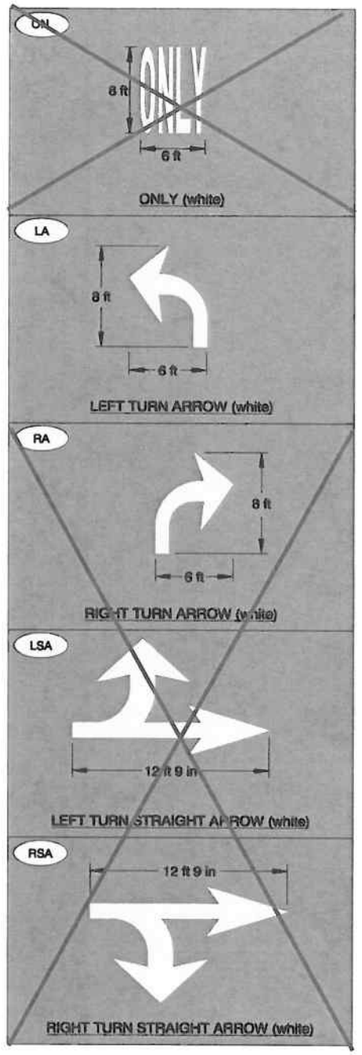

Section B-25 Lane Use Arrows
Section B-29 Preferential Lane Markings

Section B-25 Lane Use Arrows

Section B-25 Lane Use Arrows

Section B-25 Lane Use Arrows

Section B-25 Lane Use Arrows

entrapment and to help motorists select the appropriate lane before reaching the end of the line of waiting vehicles.

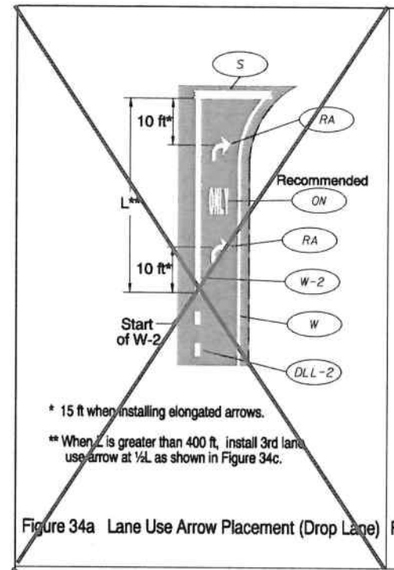

Figure 34a Lane Use Arrow Placement (Drop Lane)

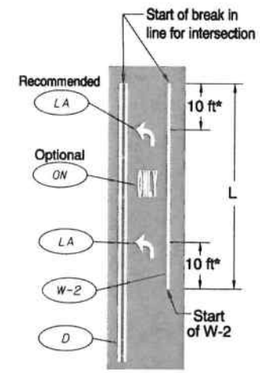

Figure 34b Lane Use Arrow Placement (L ≤ 400 ft)

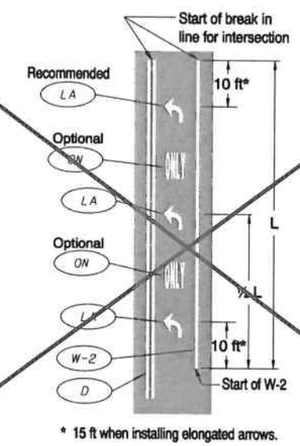

Figure 34c Lane Use Arrow Placement (L>400 ft)

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