

Council Communication

September 16, 2014, Business Meeting

Contract with KOGAP Enterprises Inc. for the Mountain Avenue Overlay Project

FROM:

Scott A. Fleury, Engineering Services Manager, Public Works/Engineering, fleurys@ashland.or.us

SUMMARY

The Council is asked to approve award of a construction contract for the Mountain Avenue overlay project. On September 4, 2014 at 2:00 p.m. bids submitted for the overlay project were opened and publicly read. Bids were received from three contractors with KOGAP Enterprises Inc. providing the low bid in the amount of \$655,263. The project involves pavement rehabilitation on North Mountain Avenue from Hersey Street to I-5.

BACKGROUND AND POLICY IMPLICATIONS:

Bidding Procedure:

The Mountain Ave. overlay project was publicly bid on August 14, 2014. The project was publicly advertised in the Mail Tribune and the Daily Journal of Commerce. In addition, project plans and specifications were sent to several plan centers and were also posted on the City's website. Bids were opened on September 4, 2014 at 2:00 p.m. with three contractors responding. Two of the three bids were valid and contained the required bonds, documentation, acknowledgements and were received on time. Bidding information is shown on the attached proposal summary form. KOGAP Enterprises was the lowest responsive, responsible bidder with a bid of \$655,263.

Project Description:

The project includes pavement rehabilitation of Mountain Ave. from Hersey St. to the I-5 overpass. In addition the project includes: new curb and gutter, sidewalk, striping, storm drain improvements and replacement of the existing grass medians with drought tolerant landscape designs.

FISCAL IMPLICATIONS:

The Mountain Ave. project is funded directly by the City as a capital improvement project (CIP). The established project budget was \$350,000. The bid amount of \$655,263 is substantially over the budgeted amount. The budget amount was developed over four years ago and was not updated to account for additional rehabilitation work, road widening, storm drain and landscaping that is proposed for the current project. This project was intended to be designed in 2011 and constructed in 2012 with monies obtained through fund exchange with the Metropolitan Planning Organization, but the monies were transferred to cover costs of the Hersey/Wimer intersection realignment.

<http://ashland.or.us/Agendas.asp?Display=Minutes&AMID=4551>

In order to fund this project staff is recommending to re-budget two overlay projects planned for the current biennium to fiscal year 2016. The projects staff are recommending to postpone include the Mountain Ave. overlay from E. Main to the rail road tracks and Wightman St. from Quincy St. to



Siskiyou Blvd. Although this it is not ideal, it is the only way to fund this project now. The long term impact is future street overlay projects identified in the CIP will also need to be delayed due to limited transportation funding. A street user fee study will be conducted, starting shortly, to analyze the long term fiscal implications for roadway lifecycle maintenance activities.

STAFF RECOMMENDATION AND REQUESTED ACTION:

Staff recommends the Council accept the bid and authorize the award of contract with KOGAP Inc. in the amount of \$655,263 for the Mountain Ave. overlay project.

SUGGESTED MOTION:

Move to approve the bid and award of contract to KOGAP Inc. in the amount of \$655,263 for the Mountain Ave. Overlay Project.

ATTACHMENTS:

Bid Summary
Project Plans



CITY OF ASHLAND - ENGINEERING DIVISION

SUMMARY OF PROPOSALS

Project: **N Mountain Avenue Overlay – Hersey to I-5**
 Project No.: **2010-10**
 Date of Bid Opening: **September 4, 2014, 2:00 p.m., Siskiyou Conference Room**
 No of Addendum: **One**

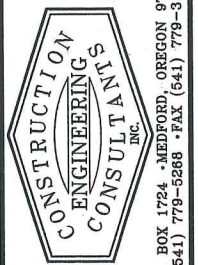
	1	2	3
Name of Bidder	Kogap Enterprises Inc.	Oregon Mainline Paving, LLC	Knife River Materials
Sum of Bid	\$655,263.00	\$689,189.85	\$695,699.05
Name of Bonding Co.	Travelers Casualty & Surety Company of America	Travelers Casualty & Surety Company of America	Liberty Mutual Insurance Company
Amount of Bid Bond	10%	10%	10%
Addendum Acknowledged	Yes	Yes	Yes
Notes	-	Bid came in after 2:00pm	-

CITY OF ASHLAND
 DEPARTMENT OF PUBLIC WORKS
 PLANS FOR PROPOSED PROJECT
 DRAINAGE & PAVING
**ASHLAND CITY STREETS
 PAVEMENT OVERLAY / STREET WIDENING**

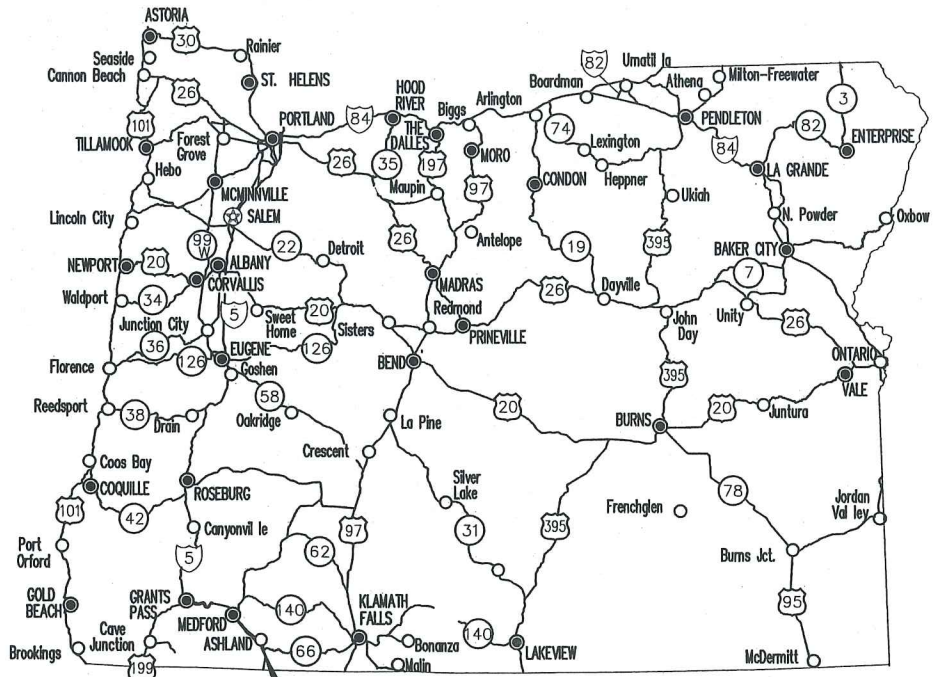
N. MOUNTAIN AVE.
 JACKSON COUNTY, OREGON
 JULY, 2014



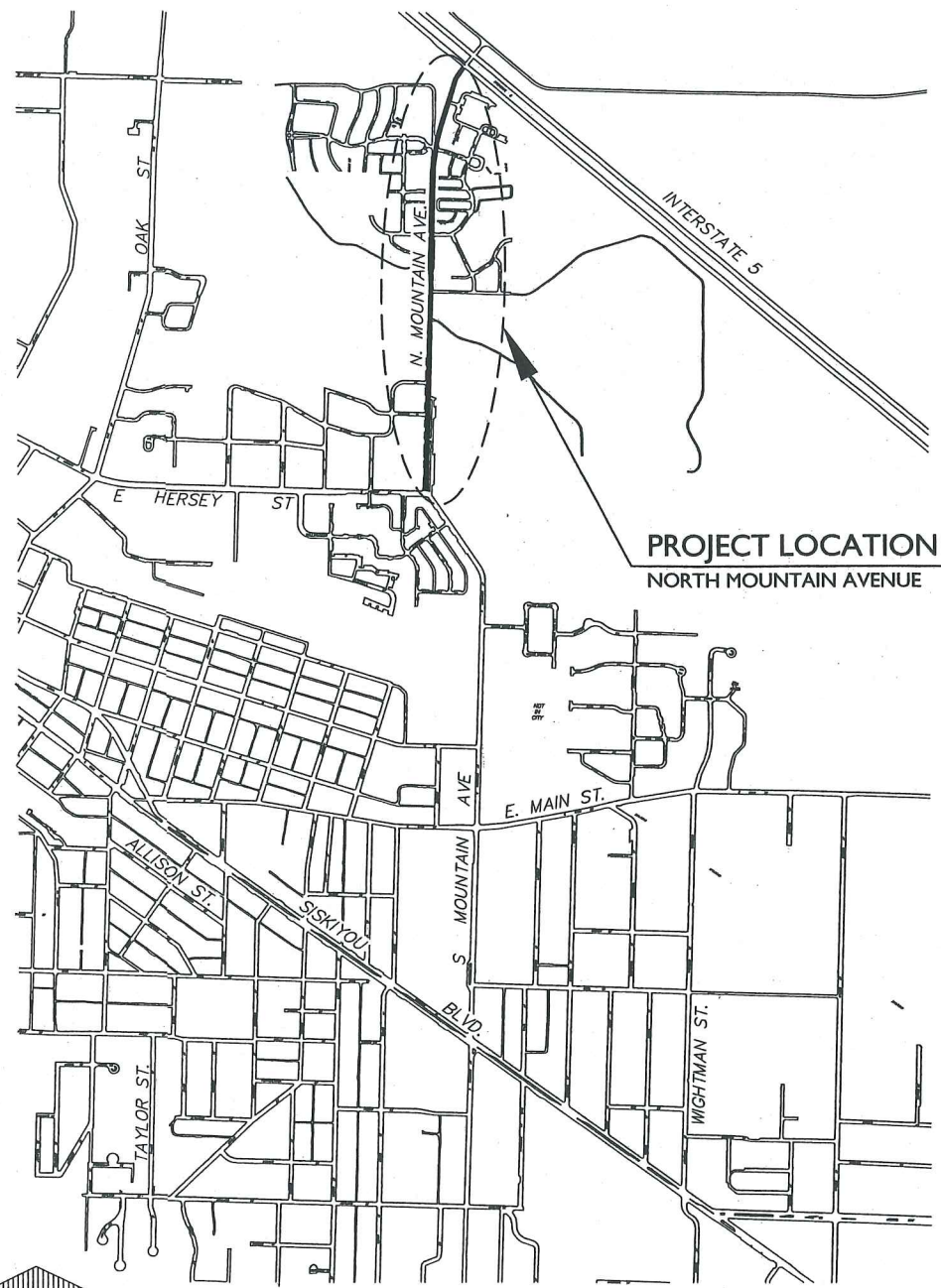
CALL 48 HOURS
 BEFORE YOU DIG



P.O. BOX 1724 - MEDFORD, OREGON 97501
 PH: (541) 779-5268 - FAX: (541) 779-3139



PROJECT
 LOCATION



PROJECT LOCATION
 NORTH MOUNTAIN AVENUE



DATE: 02/14	DATE: 02/14	DATE:	DATE:	DATE:	DATE:
DRAWN BY: TAM, MWK	CHECKED BY: AMB	APPROVED:	APPROVED:	APPROVED:	APPROVED:



CONTACT INFORMATION

ENGINEER OF RECORD:
 PATRICK HAVIRD, P.E.
 C.E.C., INC.
 132 W. MAIN ST., SUITE 201
 MEDFORD, OR 97501
 PH: (541) 779-5268
 FX: (541) 779-3139

ELECTRIC/AFN:
 CITY OF ASHLAND
 90 NORTH MOUNTAIN
 ASHLAND, OR 97520
 PH: (541) 488-5357
 FX: (541) 552-2436

CABLE COMPANY:
 CHARTER COMMUNICATIONS
 BRAD DILL
 926 S GRAPE STREET
 MEDFORD, OR 97501
 PH: (541) 282-8672
 FX: (541) 772-4685

CITY/ASHLAND PUBLIC WORKS:
 KARL JOHNSON
 ENGINEERING DIVISION
 51 WINBURN WAY
 ASHLAND, OR 97520
 PH: (541) 488-5347
 FX: (541) 488-6006

TELEPHONE COMPANY:
 JIM MARTIN
 CENTURY LINK
 132 W. 4th STREET
 MEDFORD, OR 97501
 PH: (541) 776-8268
 FX: (541) 776-8026

GAS COMPANY:
 DAVE McFADDEN
 AVISTA UTILITIES
 580 BUSINESS PARK DR
 MEDFORD, OR 97504
 PH: (541) 858-4740
 FX: (541) 858-4790

LEGEND

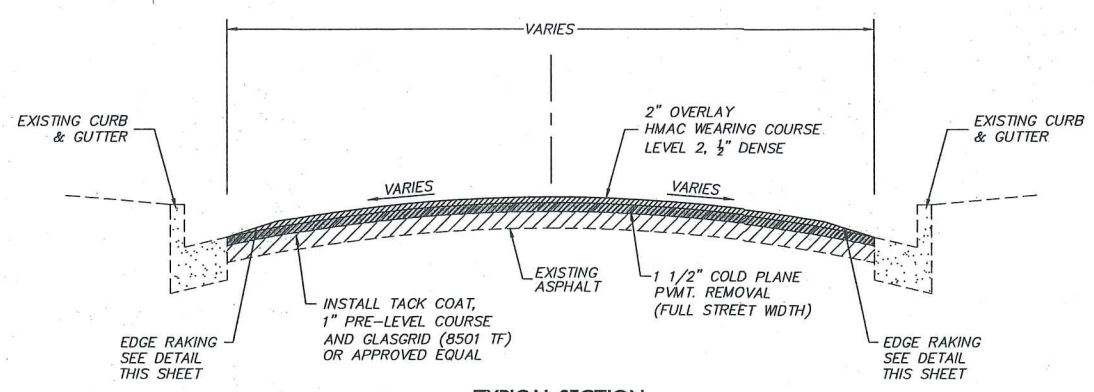
LINES		SYMBOLS	
PROPOSED PAVMNT	EXISTING STORM	AREA DRAIN	PIPE PLUG
PROPOSED SIDEWALK	EXISTING SEWER	CATCH/LYNCH BASIN	UTILITY POLE
PROPOSED STORM	EXISTING WATER	FIRE HYDRANT	STREET LIGHT
PROPOSED SEWER	EXISTING GAS	WATER VALVE	TELEPHONE PEDESTAL
PROPOSED WATER	EXISTING POWER	FITTING & T.B.	POWER TRANSFORMER
R/W	EXISTING TV	CUT-IN SLEEVE	POWER SWITCHGEAR
PROPERTY LINE	EXISTING PAVMNT	AIR VALVE	GAS VALVE
CENTER LINE	EXISTING C & G	CURB INLET	
PUE	EXISTING SIDEWALK		
PROPOSED C & G	EXISTING DITCH		
PROPOSED DITCH	EXISTING FENCE		

SHEET INDEX

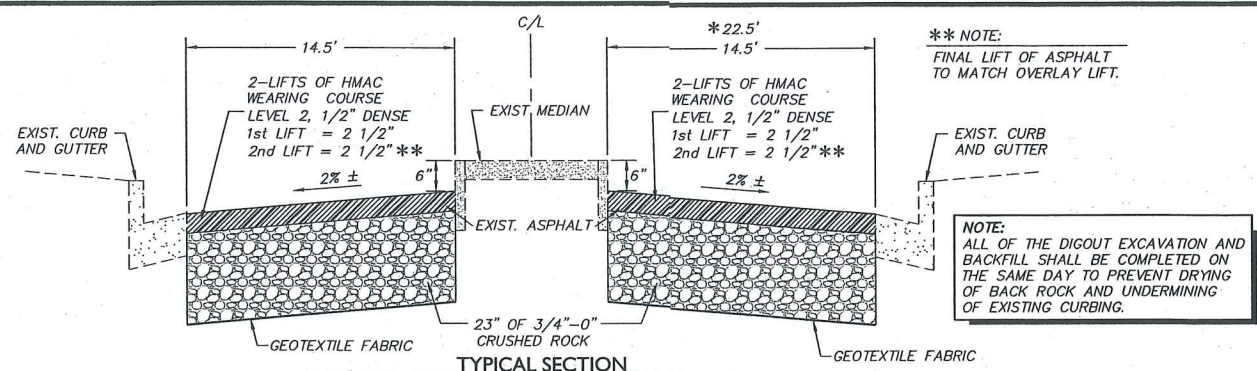
COVER SHEET	A.1
SECTIONS & PROJECT DETAILS	B.1
NORTH MOUNTAIN WIDENING P & P	C.1
NORTH MOUNTAIN OVERLAY PLAN	C.2
NORTH MOUNTAIN OVERLAY STRIPING PLAN	C.3
NORTH MOUNTAIN WIDENING STRIPING PLAN	C.4
NORTH MOUNTAIN STRIPING DETAILS & NOTES	C.5
STANDARD DETAILS	D.1 - D.2

NO.	REVISION	DATE	BY

CITY OF ASHLAND - ENGINEERING DEPARTMENT
 PAVEMENT OVERLAY / STREET WIDENING
 CIVIL IMPROVEMENTS
 COVER SHEET
 PROJECT NO. _____
 DRAWING NO. A.1



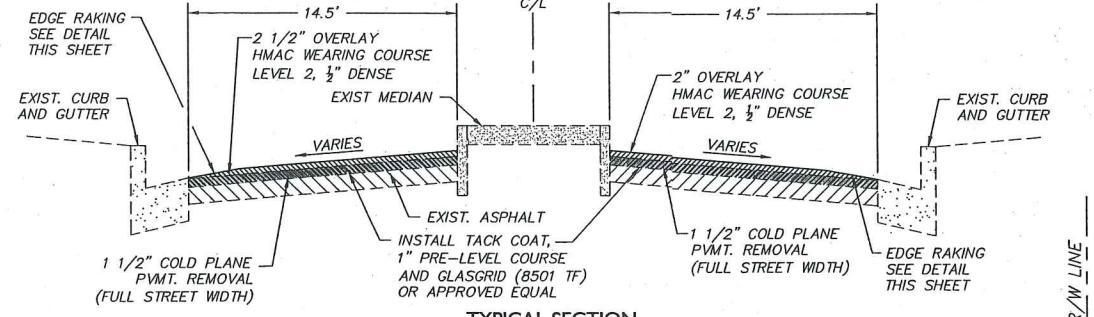
TYPICAL SECTION
N. MOUNTAIN AVE.
STA. 0+86± TO STA. 12+86±
STA. 28.50± TO STA. 35+39±



TYPICAL SECTION
N. MOUNTAIN AVE.
* STA. 19+04 RT TO STA. 21+54 RT (EAST SIDE OF ROADWAY)
STA. 22+18 LT TO STA. 23+73 LT (WEST SIDE OF ROADWAY)
STA. 23+19 RT TO STA. 27+01 RT (EAST SIDE OF ROADWAY)

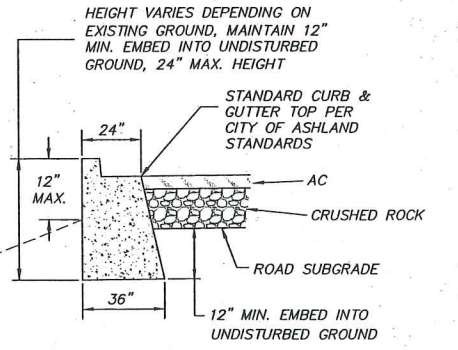
**** NOTE:**
FINAL LIFT OF ASPHALT TO MATCH OVERLAY LIFT.

NOTE:
ALL OF THE DIGOUT EXCAVATION AND BACKFILL SHALL BE COMPLETED ON THE SAME DAY TO PREVENT DRYING OF BACK ROCK AND UNDERMINING OF EXISTING CURBING.



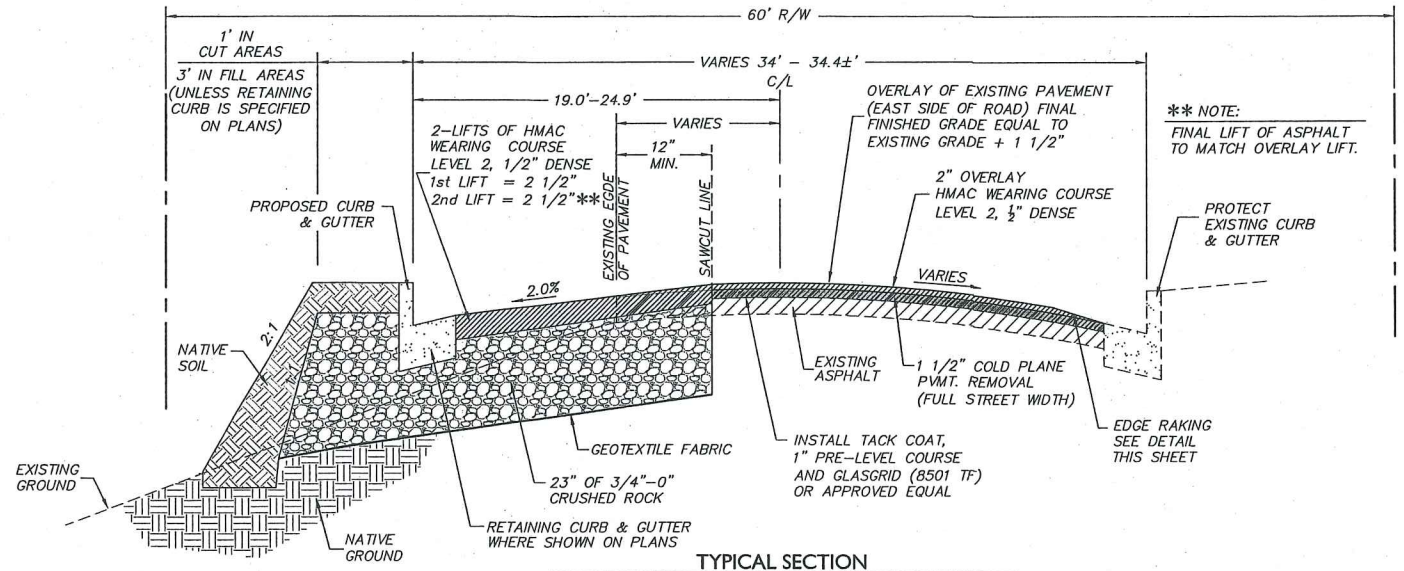
TYPICAL SECTION
N. MOUNTAIN AVE.
STA. 19+00± TO STA. 21+41±
STA. 21+53± TO STA. 29+40±

- NOTES**
1. A PRE-LEVEL COURSE OF ASPHALT IS REQUIRED IN ALL AREAS WHERE GLASGRID INSTALLATION IS TO TAKE PLACE AS REQUIRED BY THE MANUFACTURER.
 2. ALL SWEEPING OF STREETS TO BE ACCOMPLISHED WITH PICK-UP STYLE BROOM WITH VACUUM SYSTEM. NO SIDE-CAST BROOMS WILL BE ALLOWED FOR OVERLAY WORK.
 3. TACK COAT APPLICATION RATE TO BE ADJUSTED IN THE FIELD TO MEET EXISTING PAVEMENT POROSITY AND PAVEMENT ROUGHNESS REQUIREMENTS.
 4. ALL NEW PAVEMENT TO EXISTING PAVEMENT JOINTS TO BE SAND SEALED

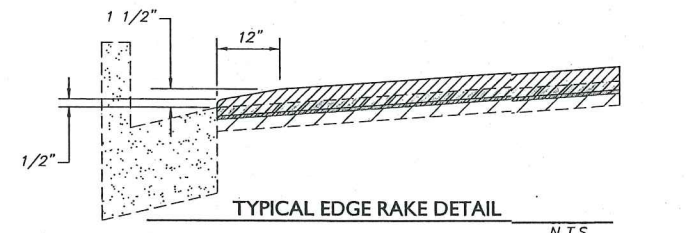


NOTE:
CONCRETE SHALL CONFORM TO CITY OF ASHLAND STDS FOR STRENGTH, JOINTS, FINISH, ETC.

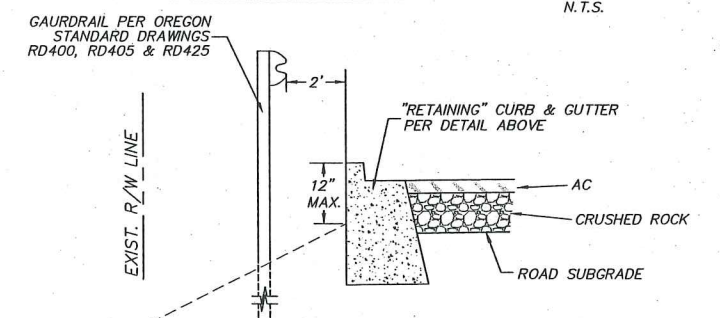
"RETAINING" CURB & GUTTER



TYPICAL SECTION
N. MOUNTAIN AVE.
STA. 17+73± TO STA. 19+14±

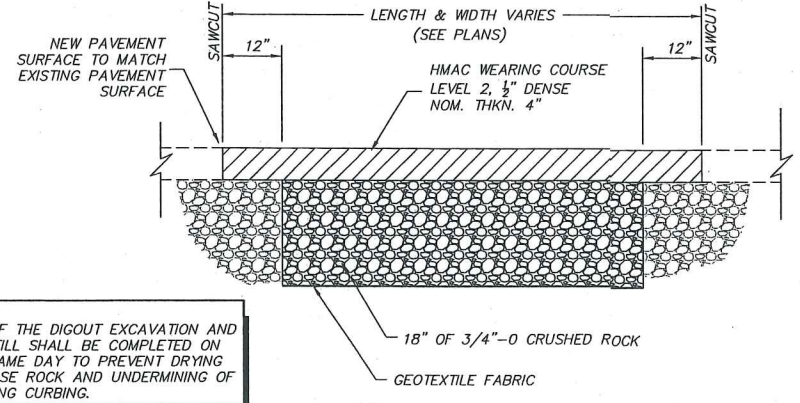


TYPICAL EDGE RAKE DETAIL

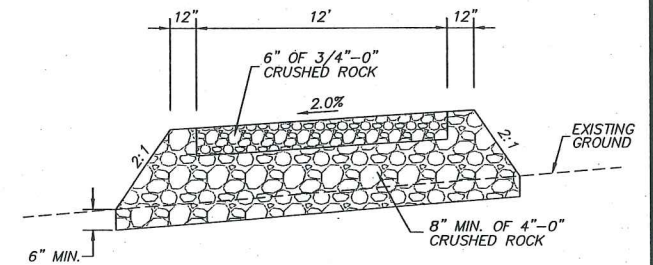


GUARD RAIL DETAIL
STA. 15+00 TO STA. 16+70

NOTE:
ALL OF THE DIGOUT EXCAVATION AND BACKFILL SHALL BE COMPLETED ON THE SAME DAY TO PREVENT DRYING OF BASE ROCK AND UNDERMINING OF EXISTING CURBING.



TYPICAL DIGOUT SECTION



TYPICAL GRAVEL DRIVEWAY SECTION



P.O. BOX 1724 • MEDFORD, OREGON 97501
PH. (541) 779-5268 • FAX (541) 779-3139

DRAWN BY:	TAM, MWK	DATE:	2/14
CHECKED BY:	MWK, AMB	DATE:	2/14
APPROVED BCVSA:		DATE:	
APPROVED:		DATE:	
APPROVED:		DATE:	
APPROVED:		DATE:	

NO.	REVISION	DATE	BY

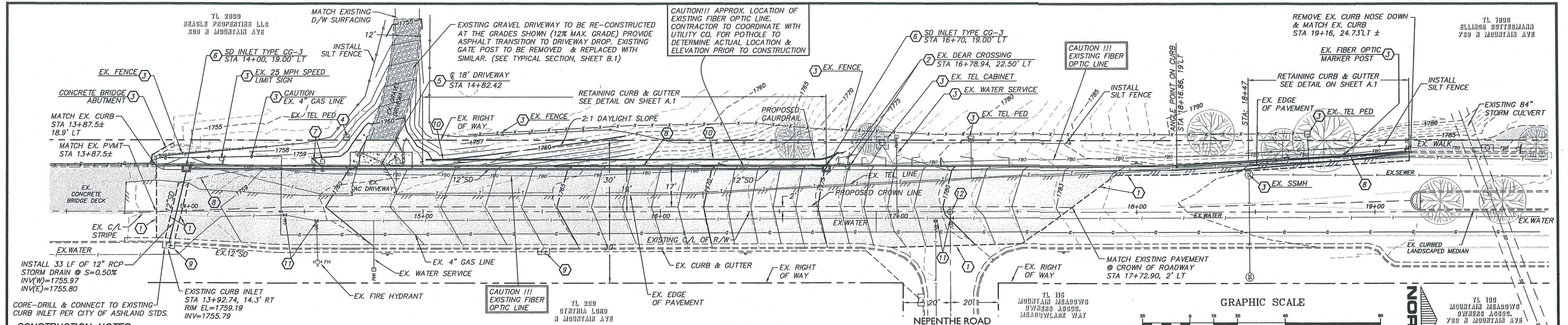
REVISED AS CONSTRUCTED BY



CITY OF ASHLAND - ENGINEERING DEPARTMENT

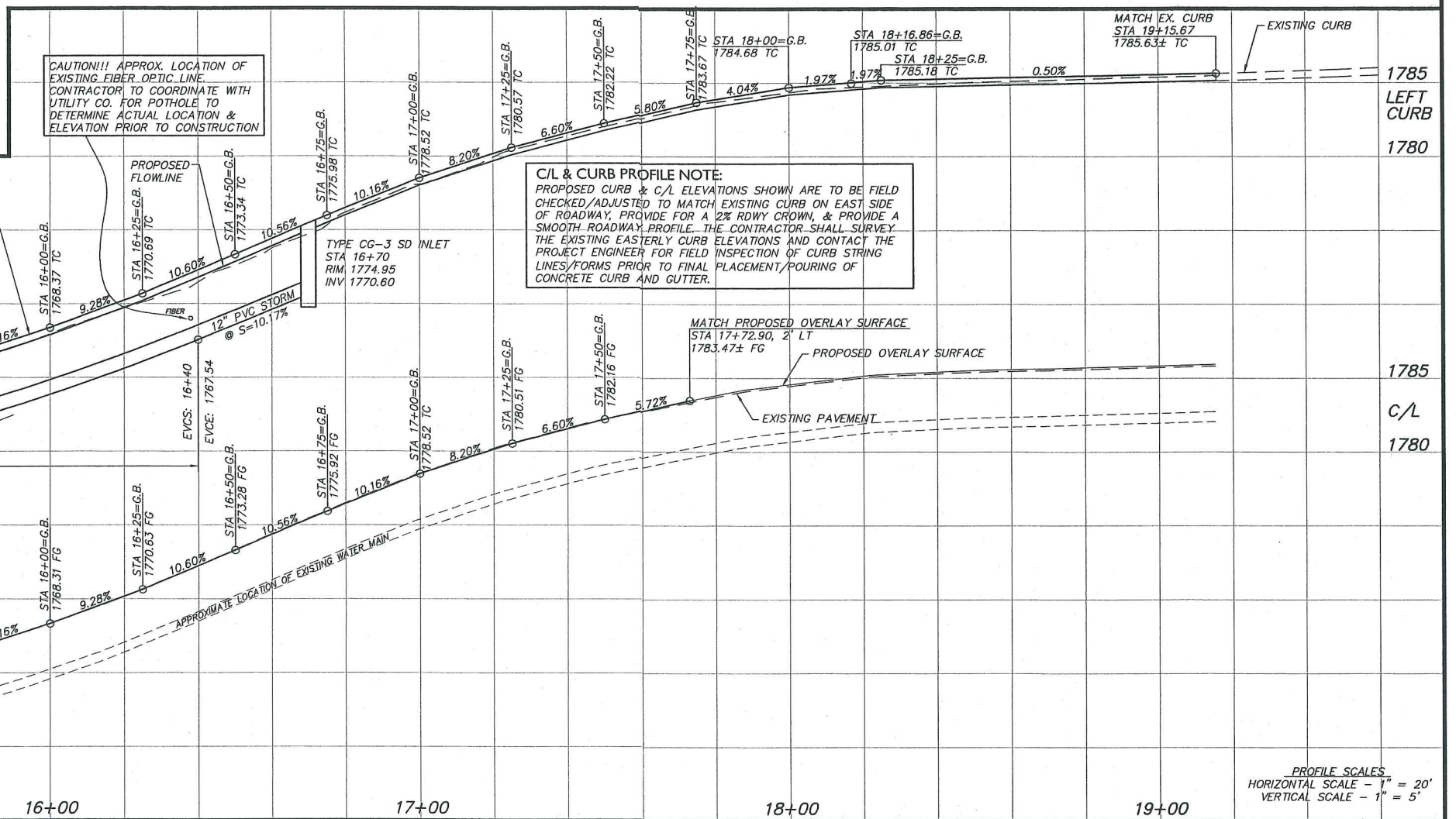
PAVEMENT OVERLAY / STREET WIDENING SECTIONS AND DETAILS

PROJECT NO. _____
DRAWING NO. **B.1**



- CONSTRUCTION NOTES:**
- SAWCUT AND MATCH EXISTING PAVEMENT AT SAWCUT LINE SHOWN.
 - REMOVE & REPLACE EXISTING SIGN PER OREGON STD. DET. TM200
 - PROTECT EXISTING ITEM IN PLACE DURING CONSTRUCTION.
 - CONTRACTOR TO COORDINATE WITH CENTURY LINK FOR ADJUSTMENT OF EX. PEDESTAL TO GRADE
 - CONSTRUCT FULLY LOWERED SIDEWALK DRIVEWAY APRON PER OREGON STD. DET. RD735.
 - INSTALL TYPE CG-3 STORM DRAIN INLET PER OREGON STD. DET. RD371
 - REMOVE AND RE-INSTALL MAILBOXES ON NEW MAILBOX SUPPORT PER OREGON STD. DET. R100 AND RD101. MAILBOXES TO REMAIN IN USE DURING CONSTRUCTION.
 - CURB & GUTTER TO BE RETAINING CURB & GUTTER PER DETAIL, SHEET B.1 (FROM STA 15+00 TO STA 16+70 AND FROM STA 18+47 TO STA 19+16)
 - INSTALL "FLOGARD PLUS" CATCH BASIN FILTER (OR APPROVED EQUAL) IN EXISTING CATCH BASIN PER MANUFACTURER'S RECOMMENDATIONS.
 - INSTALL GUARDRAIL FROM STA 15+01 TO STA 16+75 PER O.S.D. RD 400, RD 405, & RD 425 (3' FLARE @ NORTH END)
 - ADJUST EXISTING VALVE TO GRADE PER CITY OF ASHLAND STDS.
 - ADJUST EXISTING CENTERLINE MONUMENT BOX GRADE PER CITY OF ASHLAND STDS.

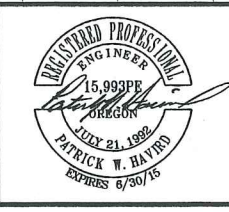
NORTH MOUNTAIN AVENUE



CONSTRUCTION ENGINEERING CONSULTANTS, INC.
 P.O. BOX 1724 • MEDFORD, OREGON 97501
 PH. (541) 779-5288 • FAX (541) 779-3139

DRAWN BY:	TAM, MWK	DATE:	2/14
CHECKED BY:	MWK, AMB	DATE:	2/14
APPROVED:		DATE:	
APPROVED:		DATE:	
APPROVED:		DATE:	

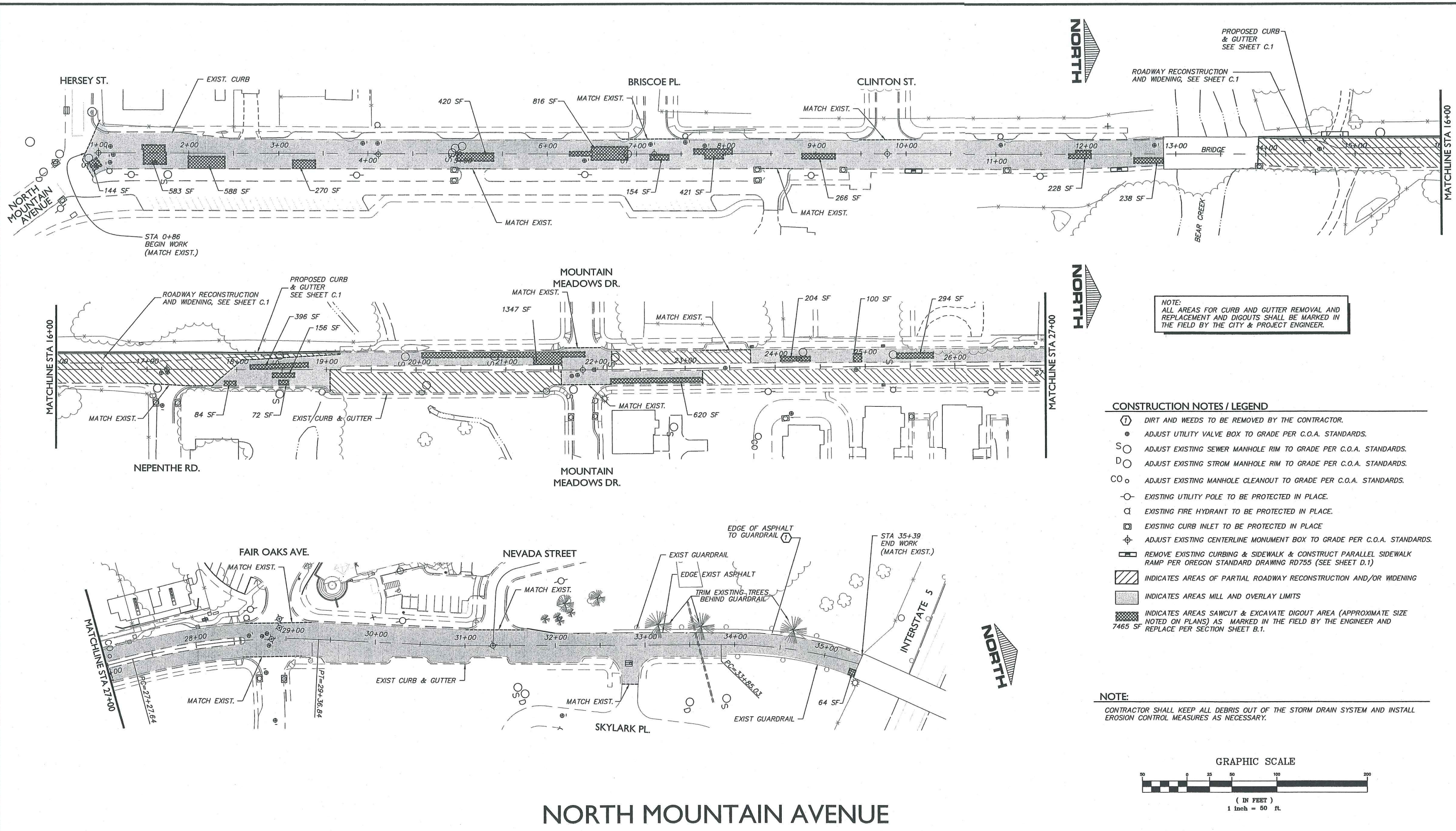
NO.	REVISION	DATE	BY



CITY OF ASHLAND - ENGINEERING DEPARTMENT

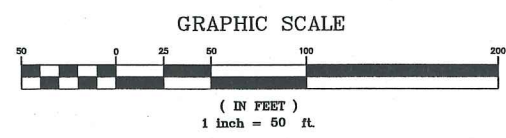
PAVEMENT OVERLAY / STREET WIDENING
 CIVIL IMPROVEMENTS
 NORTH MOUNTAIN AVENUE
 ROADWAY WIDENING & RECONSTRUCTION
 BEAR CREEK TO STA 19+16
 PLAN AND PROFILE

PROJECT NO. _____
 DRAWING NO. **C.1**



- CONSTRUCTION NOTES / LEGEND**
- ① DIRT AND WEEDS TO BE REMOVED BY THE CONTRACTOR.
 - ⊙ ADJUST UTILITY VALVE BOX TO GRADE PER C.O.A. STANDARDS.
 - S ⊙ ADJUST EXISTING SEWER MANHOLE RIM TO GRADE PER C.O.A. STANDARDS.
 - D ⊙ ADJUST EXISTING STORM MANHOLE RIM TO GRADE PER C.O.A. STANDARDS.
 - CO ⊙ ADJUST EXISTING MANHOLE CLEANOUT TO GRADE PER C.O.A. STANDARDS.
 - ⊖ EXISTING UTILITY POLE TO BE PROTECTED IN PLACE.
 - ⊕ EXISTING FIRE HYDRANT TO BE PROTECTED IN PLACE.
 - ⊠ EXISTING CURB INLET TO BE PROTECTED IN PLACE.
 - ⊞ ADJUST EXISTING CENTERLINE MONUMENT BOX TO GRADE PER C.O.A. STANDARDS.
 - ▨ REMOVE EXISTING CURBING & SIDEWALK & CONSTRUCT PARALLEL SIDEWALK RAMP PER OREGON STANDARD DRAWING RD755 (SEE SHEET D.1)
 - ▩ INDICATES AREAS OF PARTIAL ROADWAY RECONSTRUCTION AND/OR WIDENING
 - ▭ INDICATES AREAS MILL AND OVERLAY LIMITS
 - ▧ INDICATES AREAS SAWCUT & EXCAVATE DIGOUT AREA (APPROXIMATE SIZE NOTED ON PLANS) AS MARKED IN THE FIELD BY THE ENGINEER AND REPLACE PER SECTION SHEET B.1.

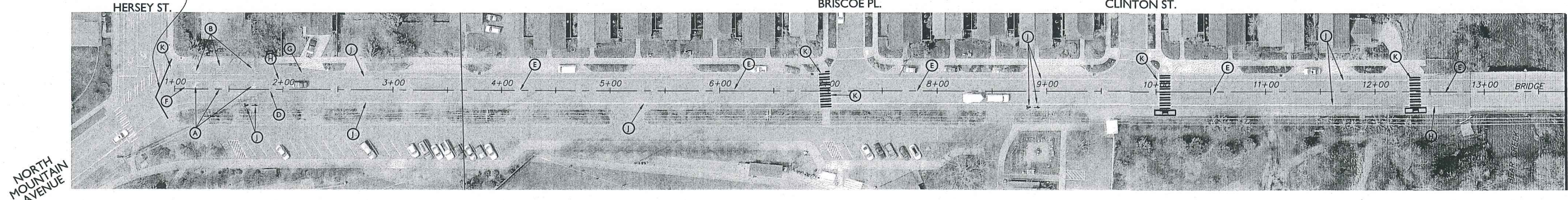
NOTE:
CONTRACTOR SHALL KEEP ALL DEBRIS OUT OF THE STORM DRAIN SYSTEM AND INSTALL EROSION CONTROL MEASURES AS NECESSARY.



NORTH MOUNTAIN AVENUE

		DRAWN BY: TAM, MWK	DATE: 6/11		NO. REVISION	DATE	BY	
		CHECKED BY: PWH	DATE: 6/11					
		APPROVED BCVSA:	DATE:					
		APPROVED:	DATE:					
		APPROVED:	DATE:					
P.O. BOX 1724 • MEDFORD, OREGON 97501 PH. (541) 779-5268 • FAX (541) 779-3139				REVISIONS AS CONSTRUCTED BY				
							CITY OF ASHLAND - ENGINEERING DEPARTMENT PAVEMENT OVERLAY / STREET WIDENING CIVIL IMPROVEMENTS NORTH MOUNTAIN AVENUE PAVEMENT GRIND & OVERLAY HERSEY STREET TO INTERSTATE 5	
							PROJECT NO.	DRAWING NO.
							C.2	NAME: ASH-MOU-2013.DWG PROJ: 11-17 PLOT DATE: 08/06/14

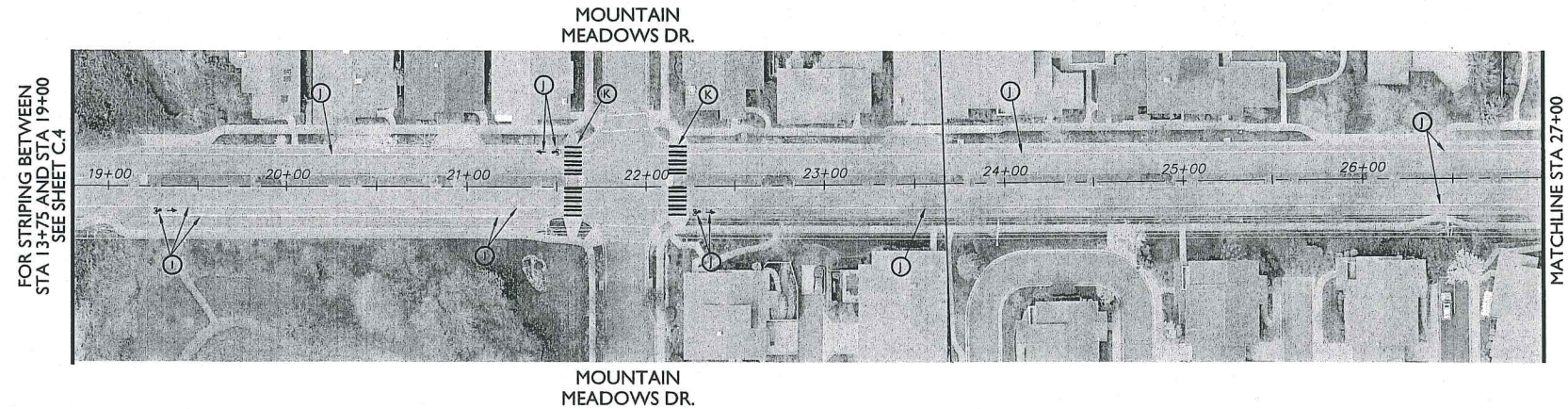
BEGIN WORK PAVEMENT OVERLAY
(MATCH EXIST.)



FOR STRIPING BETWEEN
STA 13+75 AND STA 19+00
SEE SHEET C.4



NORTH
MOUNTAIN
AVENUE

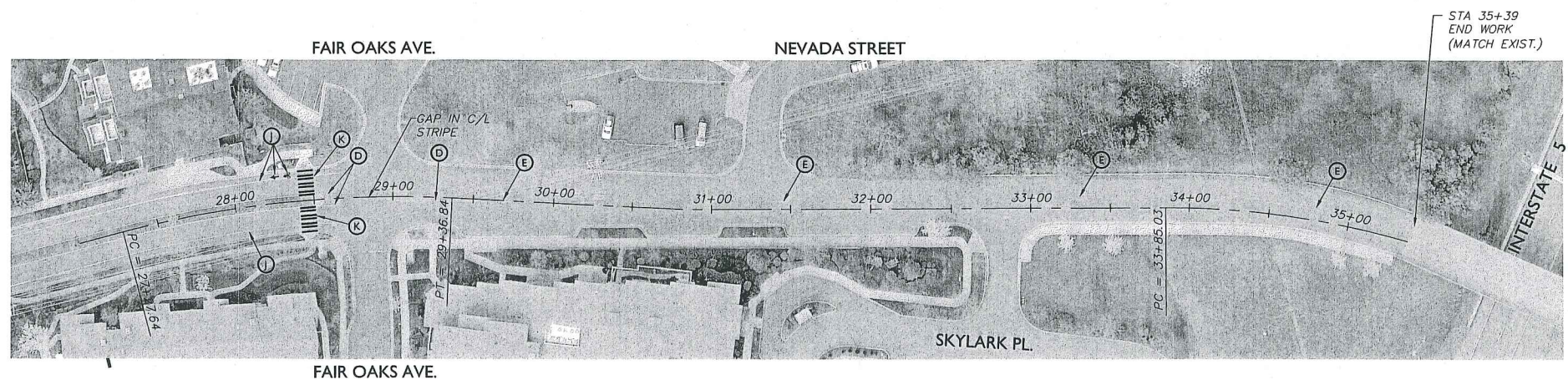


FOR STRIPING BETWEEN
STA 13+75 AND STA 19+00
SEE SHEET C.4

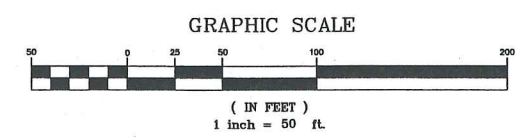
MATCHLINE STA 27+00



NOTE:
SEE SHEET C.5 FOR STRIPING DETAILS
AND NOTES



NORTH MOUNTAIN AVENUE



P.O. BOX 1724 • MEDFORD, OREGON 97501
PH. (541) 779-5268 • FAX (541) 779-3139

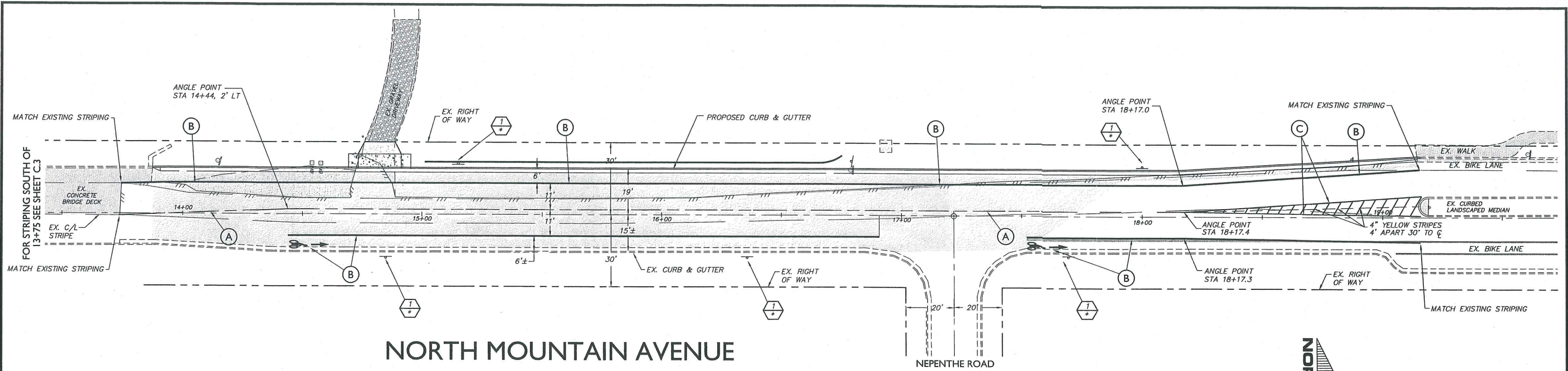
DRAWN BY: TAM, MWK	DATE: 6/11
CHECKED BY: PWH	DATE: 6/11
APPROVED BCVSA:	DATE:
APPROVED:	DATE:
APPROVED:	DATE:
APPROVED:	DATE:

NO.	REVISION	DATE	BY

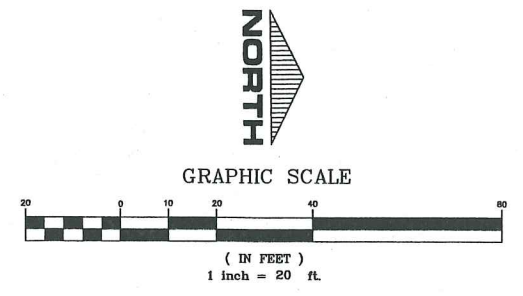


CITY OF ASHLAND - ENGINEERING DEPARTMENT
PAVEMENT OVERLAY / STREET WIDENING
CIVIL IMPROVEMENTS
NORTH MOUNTAIN AVENUE
OVERLAY STRIPING PLAN
HERSEY STREET TO BEAR CREEK
AND
STA 19+00 TO INTERSTATE 5

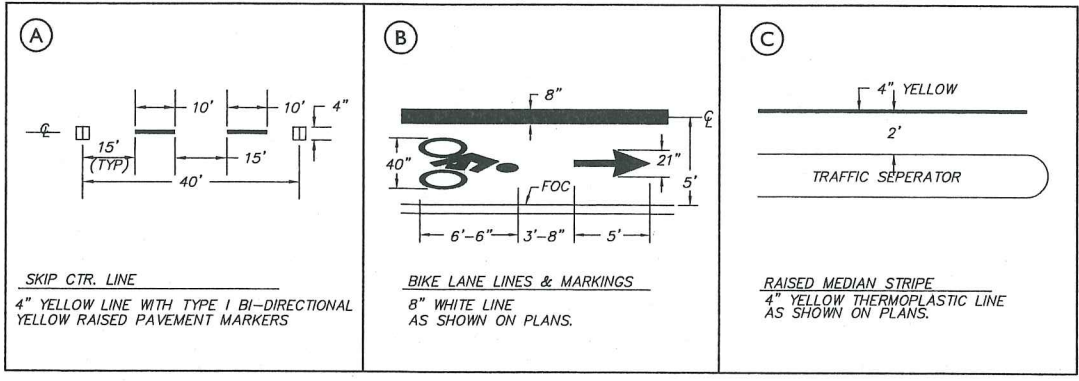
PROJECT NO. _____
DRAWING NO. C.3



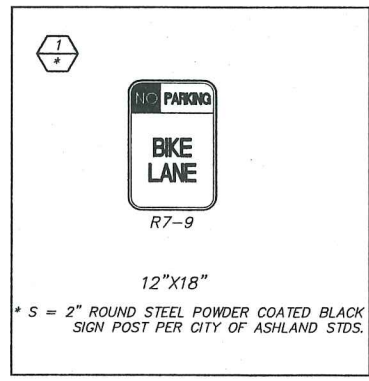
NORTH MOUNTAIN AVENUE



STRIPING DETAILS:

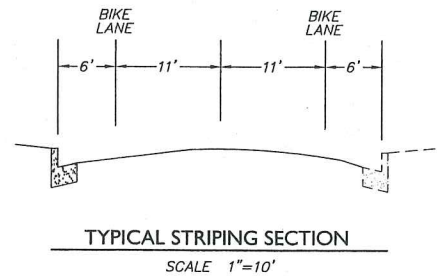


SIGNING DETAILS:



SIGNING AND STRIPING NOTES:

1. ALL SIGNING AND STRIPING SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CITY OF ASHLAND & M.U.T.C.D.
2. ALL PAVEMENT MARKING SHALL CONFORM TO THE MOST CURRENT ODOT SPECIFICATION FOR THERMOPLASTIC.
3. ALL THERMOPLASTIC PAVEMENT MARKING MATERIAL SHALL BE INSTALLED AS PER SECTION 2840 OF THE ODOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.
4. ALL EXISTING CONFLICTING STRIPING SHALL BE REMOVED. ALL STRIPING TO BE REMOVED SHALL BE DONE BY APPROVED DEQ/CITY OF ASHLAND METHOD.
5. ALL STRIPING SHALL BE "PRE-MARKED" AND APPROVED BY THE CITY OF ASHLAND PRIOR TO FINAL PLACEMENT OF STRIPING.
6. ALL STOPBAR/CROSSWALK/LEGEND SHALL BE THERMOPLASTIC
7. ALL STRIPING SHALL BE DURABLE THERMOPLASTIC.
8. DURABLE LONGITUDINAL PAVEMENT MARKINGS SHALL BE INSTALLED PER ODOT STANDARD SPECIFICATION METHOD "F".



P.O. BOX 1724 • MEDFORD, OREGON 97501
PH. (541) 779-5268 • FAX (541) 779-3139

DRAWN BY:	TAM, MWK	DATE:	2/14
CHECKED BY:	MWK, PWH	DATE:	2/14
APPROVED:		DATE:	
APPROVED:		DATE:	
APPROVED:		DATE:	

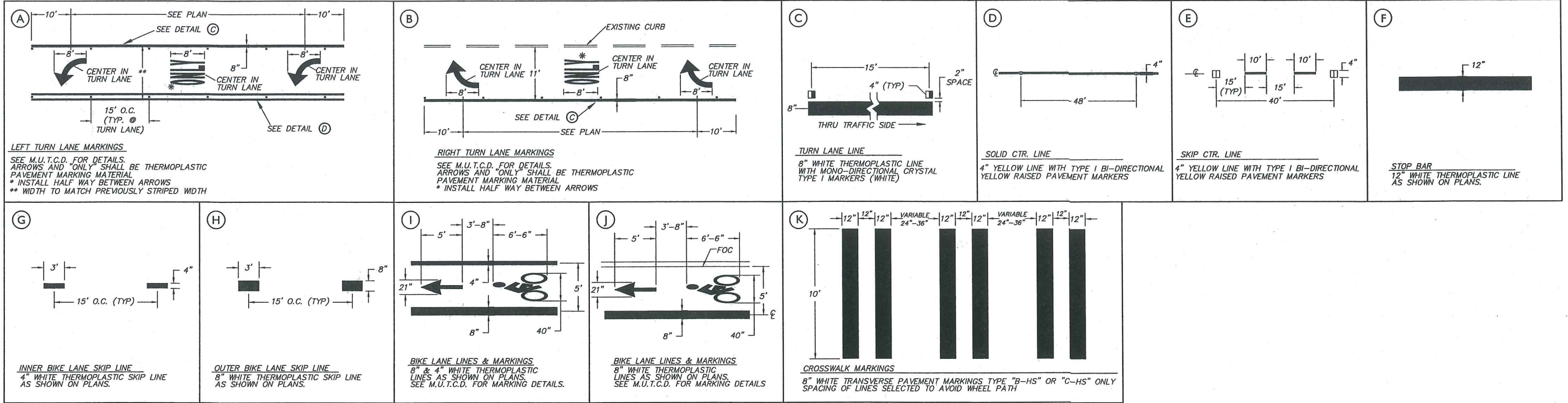
NO.	REVISION	DATE	BY



CITY OF ASHLAND - ENGINEERING DEPARTMENT
PAVEMENT OVERLAY / STREET WIDENING
CIVIL IMPROVEMENTS
NORTH MOUNTAIN AVENUE
STRIPING PLAN
BEAR CREEK TO STA 19+16

PROJECT NO. _____
DRAWING NO. **C.4**

STRIPING DETAILS



SIGNING AND STRIPING NOTES:

1. ALL SIGNING AND STRIPING SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CITY OF ASHLAND & M.U.T.C.D.
2. ALL PAVEMENT MARKING SHALL CONFORM TO THE MOST CURRENT ODOT SPECIFICATION FOR THERMOPLASTIC.
3. ALL THERMOPLASTIC PAVEMENT MARKING MATERIAL SHALL BE INSTALLED AS PER SECTION 2840 OF THE ODOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.
4. ALL EXISTING CONFLICTING STRIPING SHALL BE REMOVED. ALL STRIPING TO BE REMOVED SHALL BE DONE BY APPROVED DEQ/CITY OF ASHLAND METHOD.
5. ALL STRIPING SHALL BE "PRE-MARKED" AND APPROVED BY THE CITY OF ASHLAND PRIOR TO FINAL PLACEMENT OF STRIPING.
6. ALL STOPBAR/CROSSWALK/LEGEND SHALL BE THERMOPLASTIC
7. ALL STRIPING SHALL BE DURABLE THERMOPLASTIC.
8. DURABLE LONGITUDINAL PAVEMENT MARKINGS SHALL BE INSTALLED PER ODOT STANDARD SPECIFICATION METHOD "F".

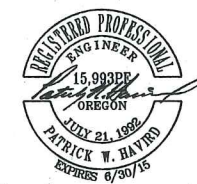


P.O. BOX 1724 • MEDFORD, OREGON 97501
PH. (541) 779-5268 • FAX (541) 779-3139

DRAWN BY:	TAM, MWK	DATE:	2/14
CHECKED BY:	PWH	DATE:	2/14
APPROVED BCVSA:		DATE:	
APPROVED:		DATE:	
APPROVED:		DATE:	
APPROVED:		DATE:	

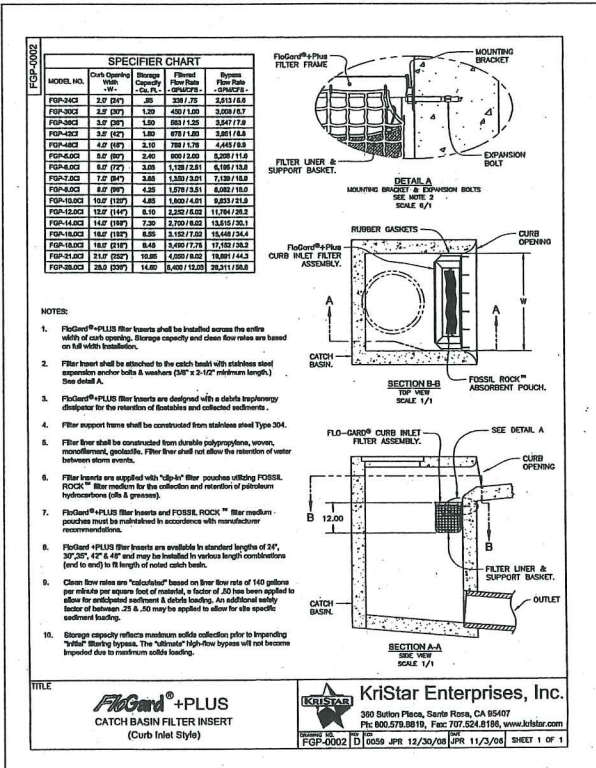
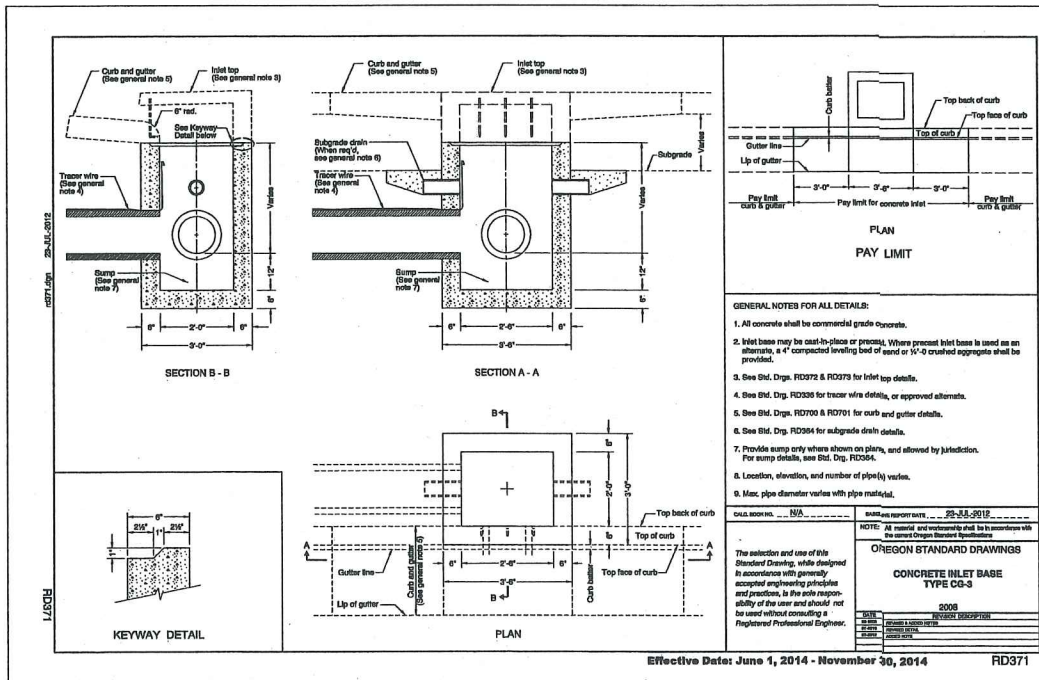
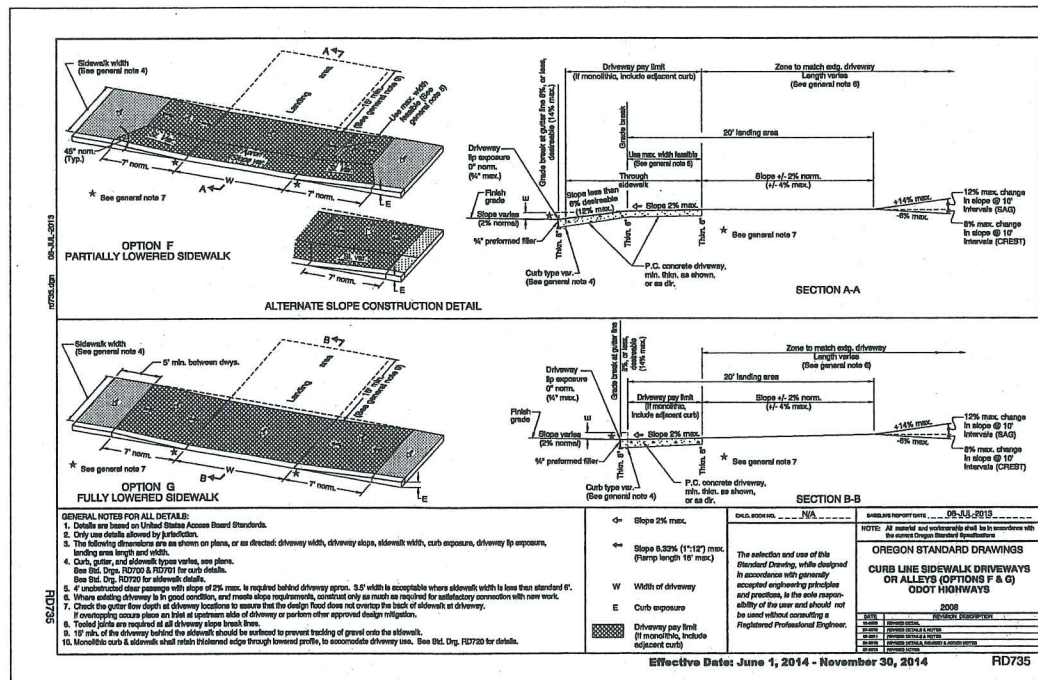
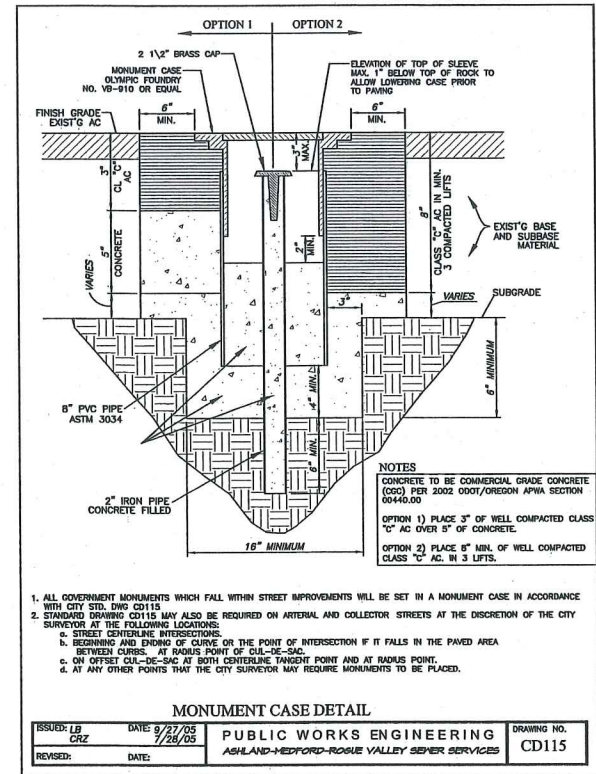
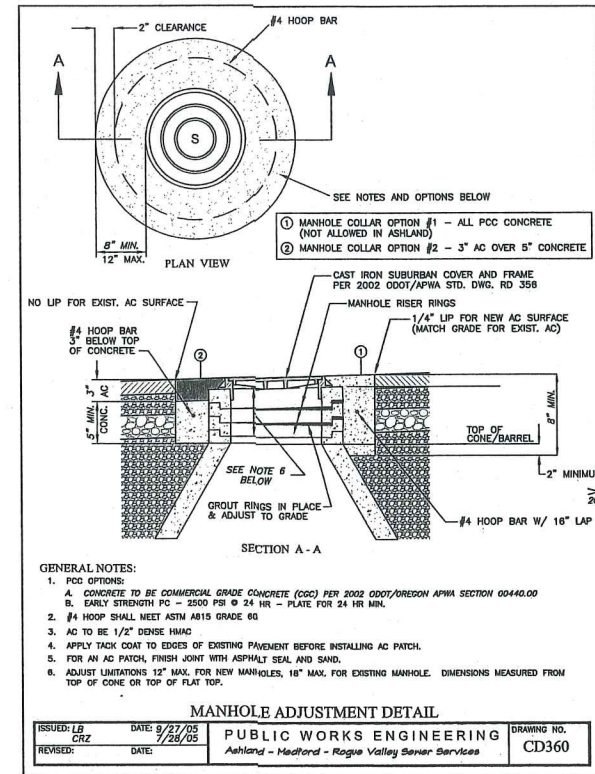
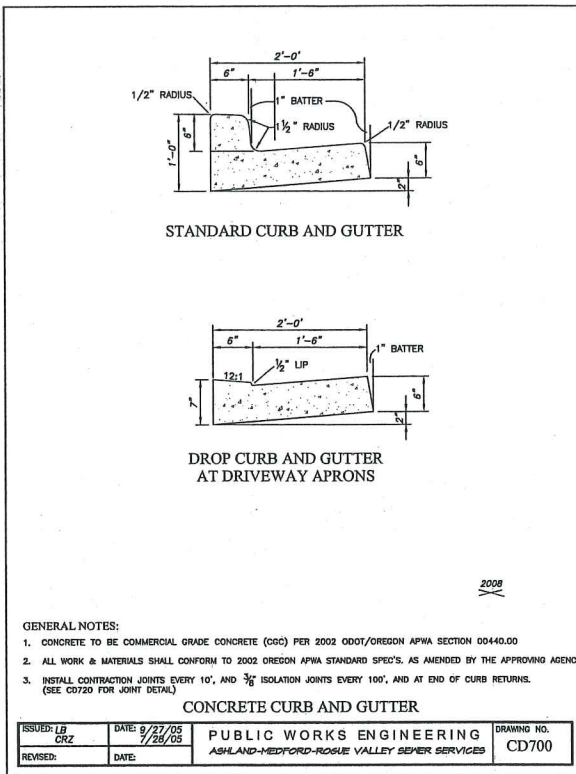
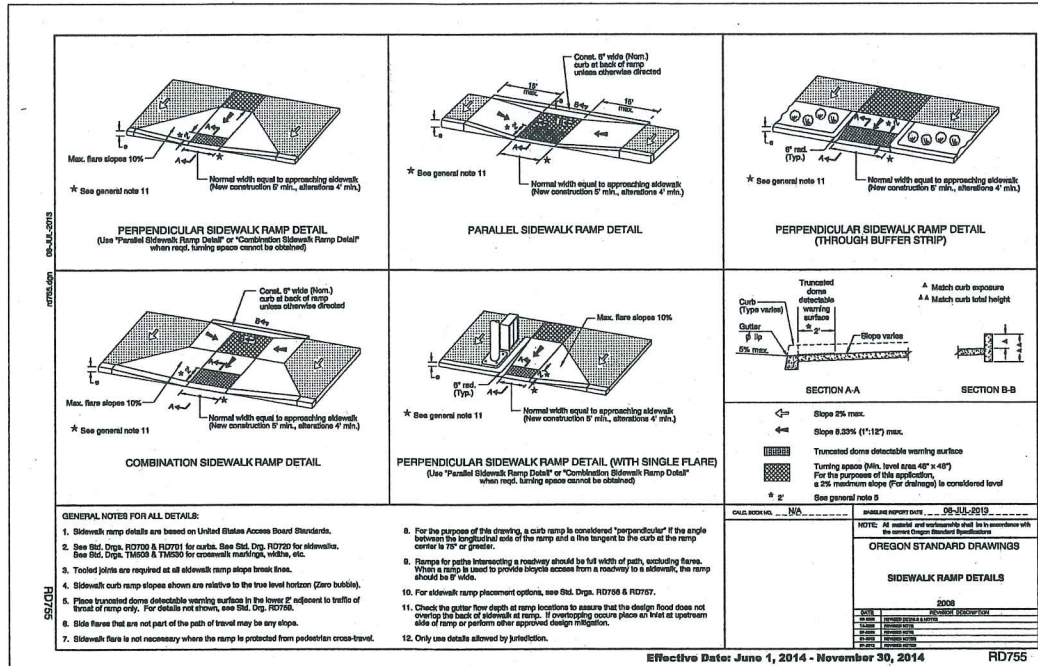
NO.	REVISION	DATE	BY

REVISED AS CONSTRUCTED BY



CITY OF ASHLAND - ENGINEERING DEPARTMENT
PAVEMENT OVERLAY / STREET WIDENING
CIVIL IMPROVEMENTS
NORTH MOUNTAIN AVENUE
STRIPING DETAILS & NOTES

PROJECT NO.
DRAWING NO.
C.5



ALL STANDARD DETAILS ARE PROVIDED FOR REFERENCE ONLY!!! IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY AND USE THE MOST CURRENT STANDARD DETAILS.

CONSTRUCTION ENGINEERING CONSULTANTS INC.

P.O. BOX 1724 • MEDFORD, OREGON 97501
 PH. (541) 779-5268 • FAX (541) 779-3139

CALL 48 HOURS BEFORE YOU DIG

DRAWN BY: TAM, MWK	DATE: 2/14
CHECKED BY: MWK, AMB	DATE: 2/14
AGENCY ENGINEER:	DATE:
AGENCY REVIEW BY:	DATE:
AGENCY REVIEW BY:	DATE:
AGENCY REVIEW BY:	DATE:

NO.	REVISION	DATE	BY

CITY OF ASHLAND - ENGINEERING DEPARTMENT

PAVEMENT OVERLAY / STREET WIDENING CIVIL IMPROVEMENTS

STANDARD DETAILS

PROJECT NO. _____
 DRAWING NO. **D.1**

NAME: ASH-DET-2013.DWG PROJ.: 11-17 PLOT DATE: 08/06/14

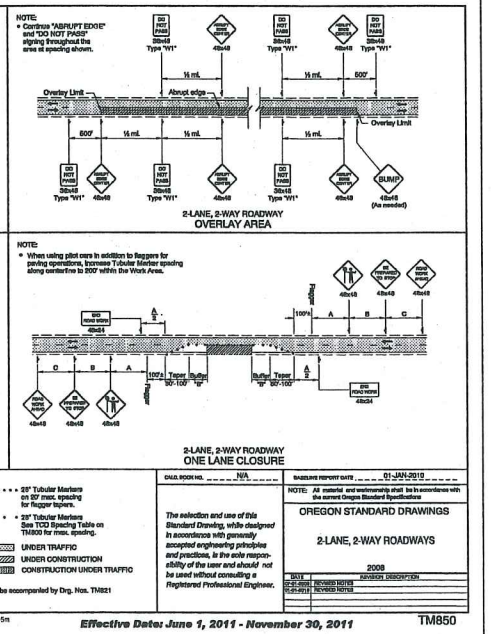
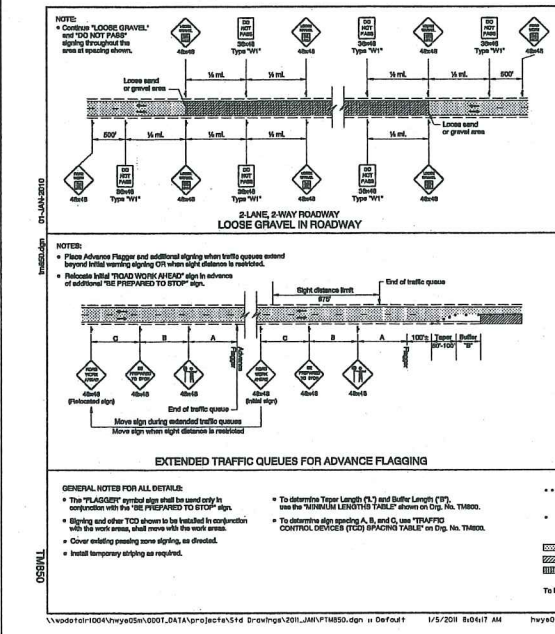
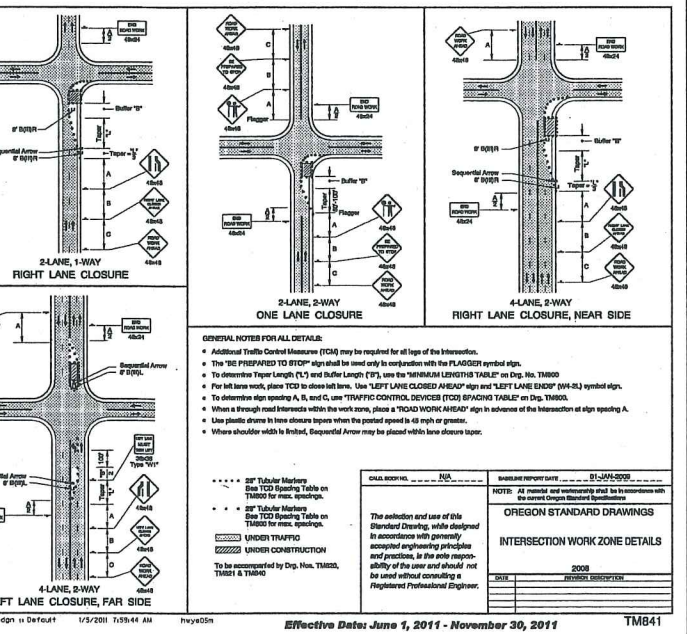
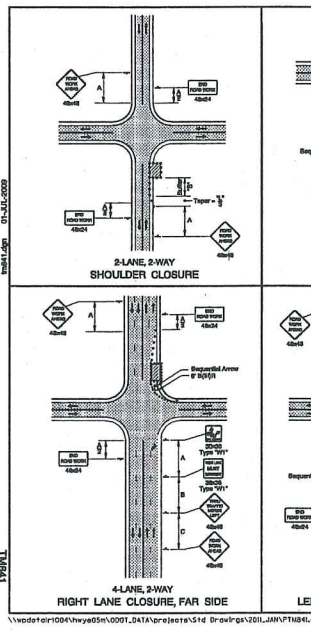
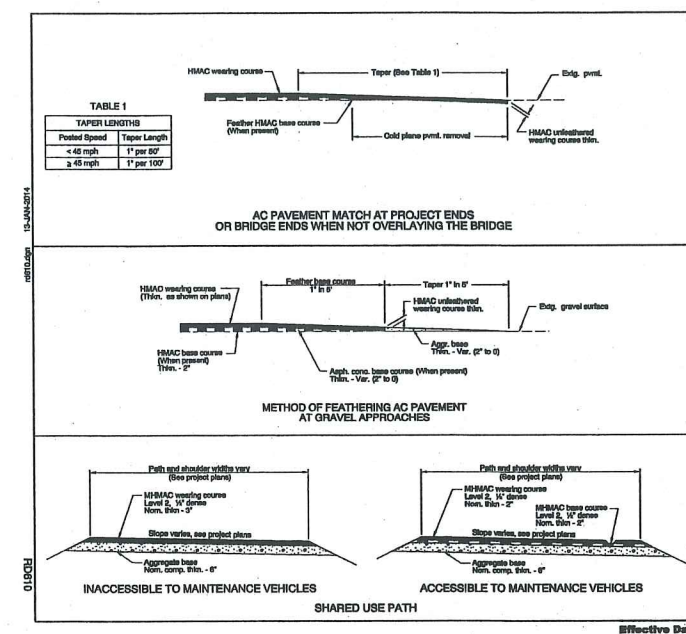
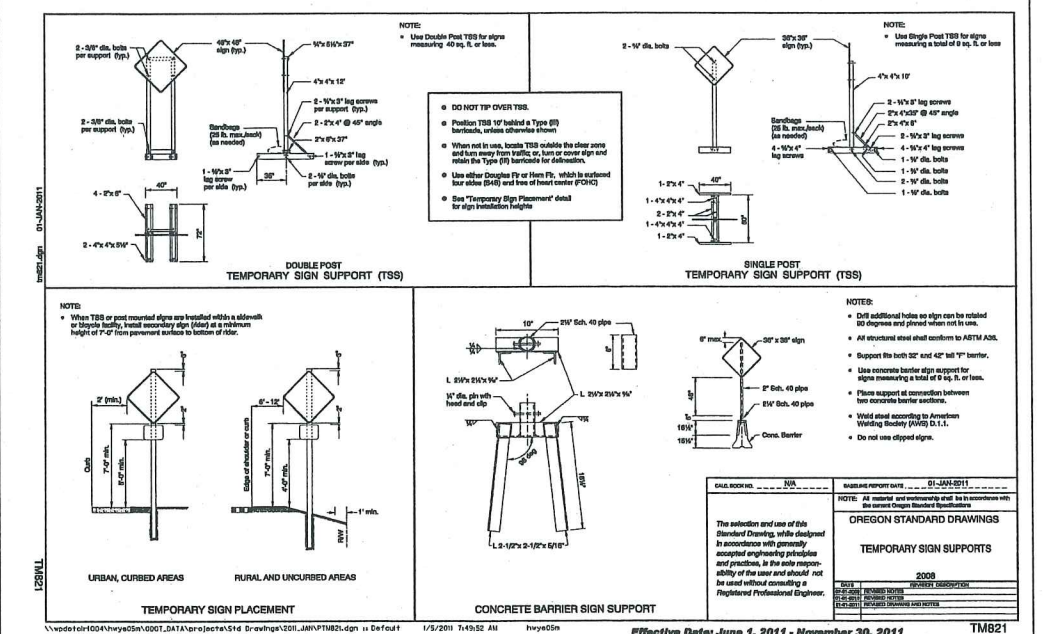
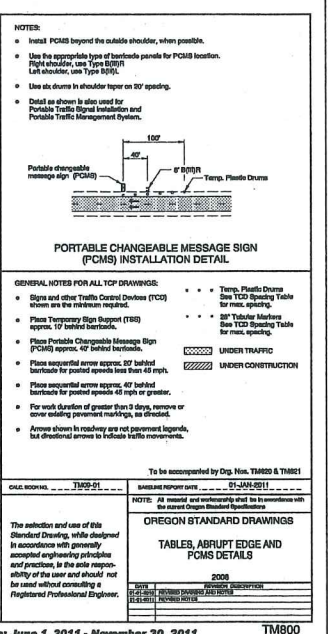
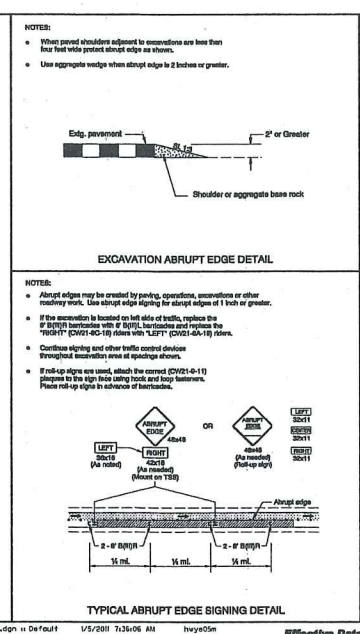
Use Pre-Construction Permits to Detail the Correct Design Speed from the Tables below.

CONCRETE BARRIER FLARE RATE TABLE	
* SPEED (mph)	FLARE RATE
20	1:1
30	1:1.5
40	1:2
50	1:2.5
60	1:3
70	1:3.5
80	1:4
90	1:4.5
100	1:5

MINIMUM LENGTHS TABLE	
* TAPER (ft)	MINIMUM LENGTH (ft)
10	100
15	150
20	200
25	250
30	300
35	350
40	400
45	450
50	500
55	550
60	600
65	650
70	700
75	750
80	800
85	850
90	900
95	950
100	1000

TRAFFIC CONTROL DEVICES (TCD) SPACING TABLE				
* Speed (mph)	A	B	C	Min. Spacing (ft)
20-30	100	100	100	20
35-40	300	300	350	20
45-55	500	500	500	40
Freeway	1000	1500	2000	40

NOTE: * For lanes or shoulders where W < 10', Use "L" value for W < 10'.
 * Use 100' for tapering down concrete barrier length. See Dgs. TM800, TM801, and TM802.
 * When spacing of signs may be adjusted to fit site conditions. List spacing adjustments to 20% of the "A" dimension for speeds < 45 mph. List spacing adjustments to 10% of the "A" dimension for speeds ≥ 45 mph.



ALL STANDARD DETAILS ARE PROVIDED FOR REFERENCE ONLY!!! IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY AND USE THE MOST CURRENT STANDARD DETAILS.

DRAWN BY: TAM, MWK	DATE: 2/14	NO. REVISION	DATE	BY
CHECKED BY: MWK, AMB	DATE: 2/14			
AGENCY ENGINEER:	DATE:			
AGENCY REVIEW BY:	DATE:			
AGENCY REVIEW BY:	DATE:			
AGENCY REVIEW BY:	DATE:			

CALL 48 HOURS BEFORE YOU DIG

P.O. BOX 1724 • MEDFORD, OREGON 97501
PH. (541) 779-5268 • FAX (541) 779-3139

REGISTERED PROFESSIONAL ENGINEER
15,993PE
OREGON
JULY 21, 1999
PATRICK W. HATFIELD
EXPIRES 6/30/16

CITY OF ASHLAND - ENGINEERING DEPARTMENT

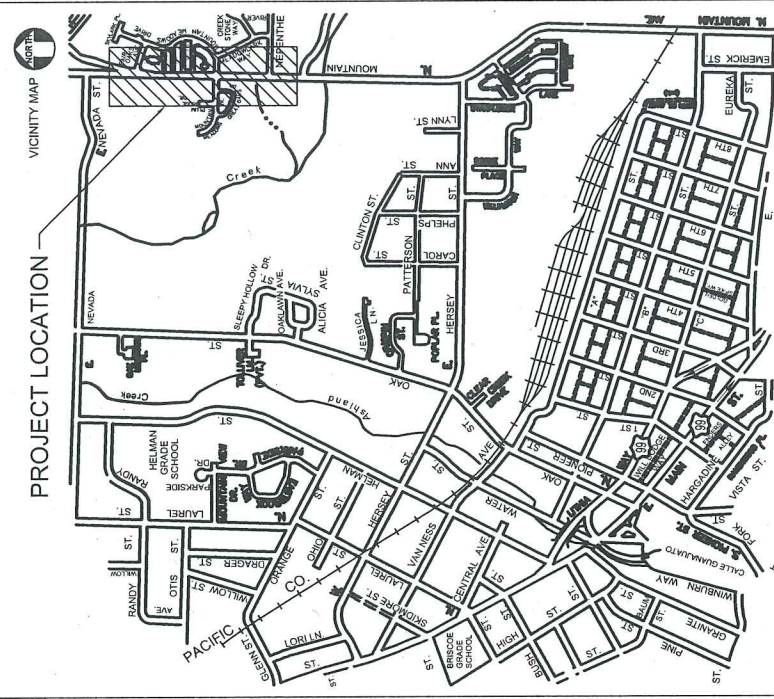
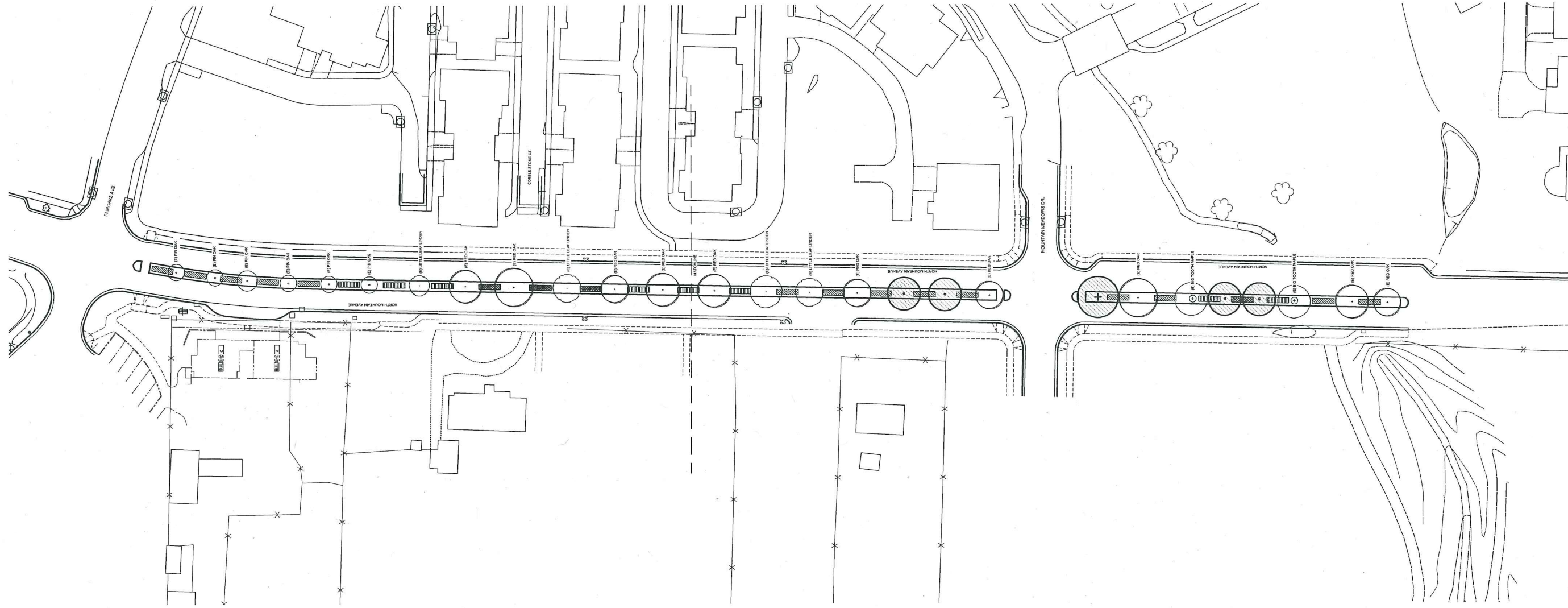
PAVEMENT OVERLAY / STREET WIDENING CIVIL IMPROVEMENTS

STANDARD DETAILS

PROJECT NO. _____

DRAWING NO. **D.2**

NAME: ASH-DET-2013.DWG PROJ: 11-17 PLOT DATE: 06/06/14



SHEET INDEX

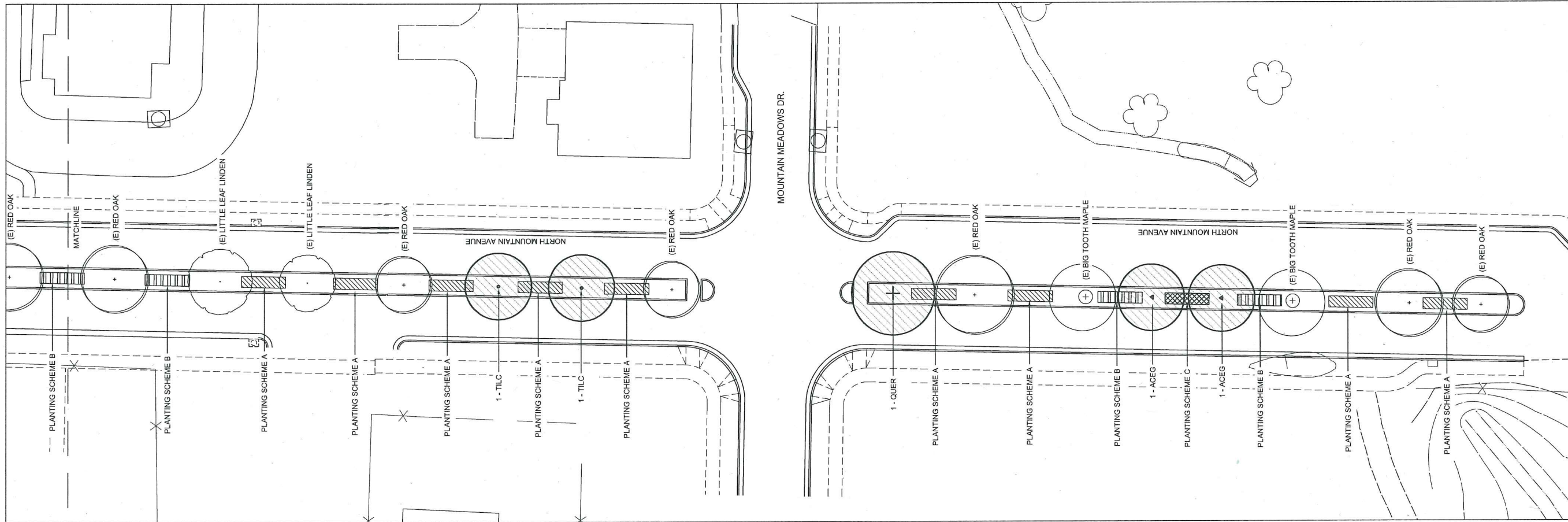
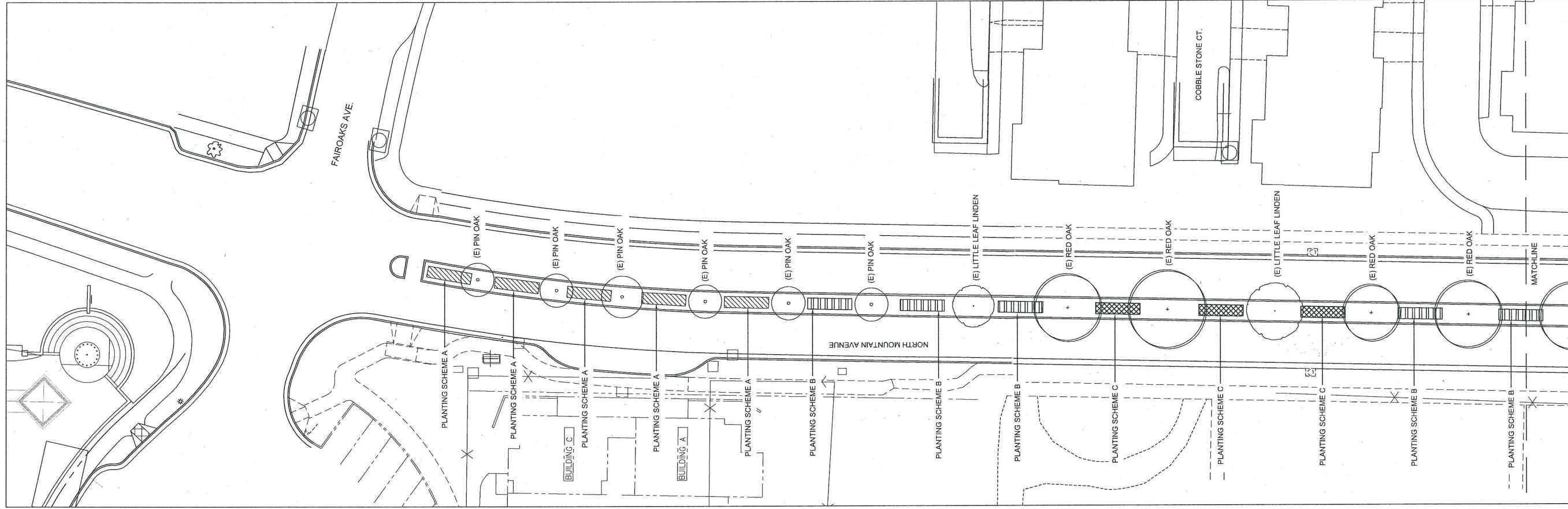
LANDSCAPE ARCHITECT PLANS

- L-1.0 TITLE SHEET
- L-2.0-2.1 PLANTING PLAN AND LEGEND
- L-3.0-3.1 IRRIGATION PLAN AND LEGEND

PROJECT CONSULTANTS

Laurie Sager & Associates Landscape Architects Inc.
 700 Mistletoe Rd, Suite 201
 Ashland, OR 97520
 541.488.1446





SEE SHEET L-2.1 FOR PLANTING DETAILS



Revision Date:

Drawn By:

11X17 Scale: 1" = 40'-0"
24X36 Scale: 1" = 20'-0"

CITY OF ASHLAND PUBLIC WORKS DEPT.
NORTH MOUNTAIN AVE. MEDIAN
ASHLAND, OREGON

August 7, 2014

L-2.0

Laurie Sager
AND ASSOCIATES LANDSCAPE ARCHITECTS INC
700 MISTLETOE ROAD, SUITE 201
ASHLAND, OREGON 97520



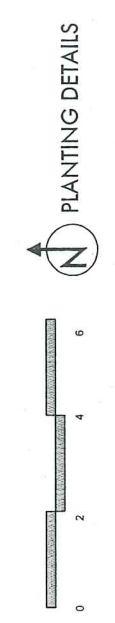
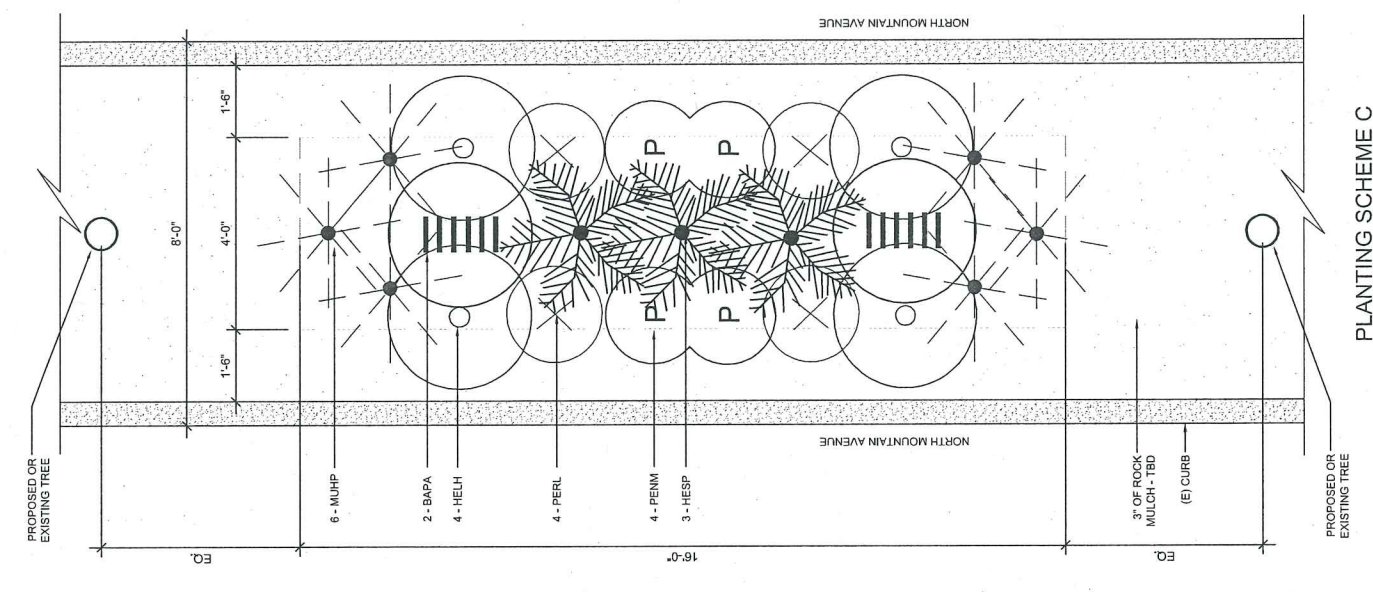
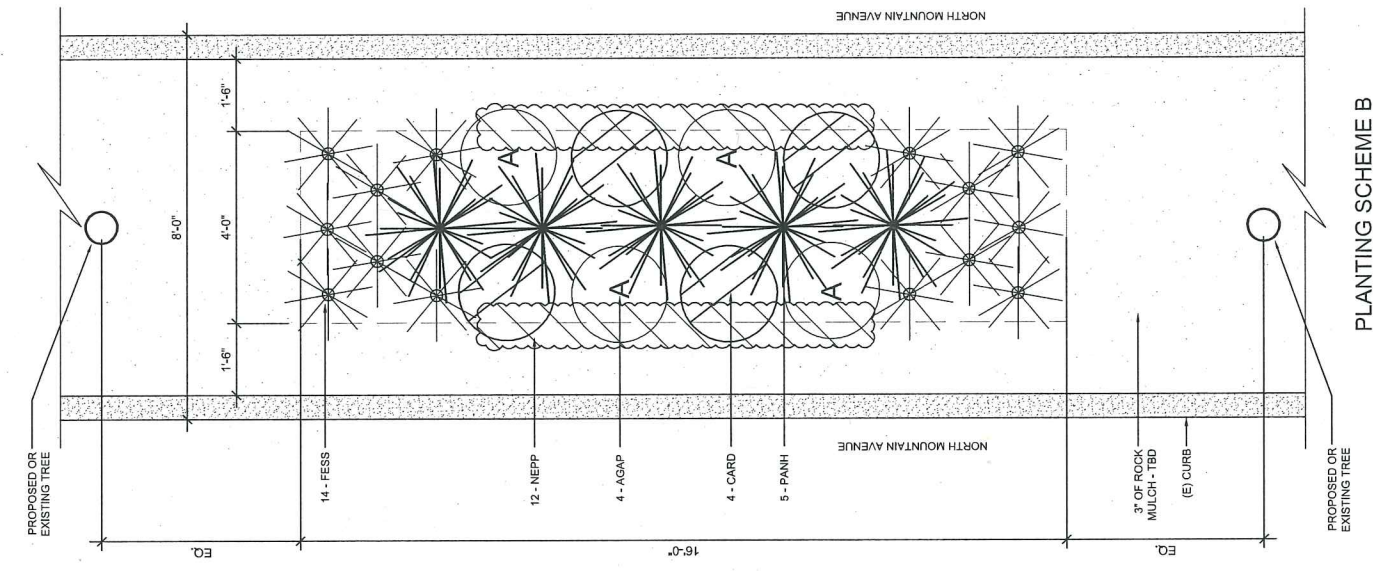
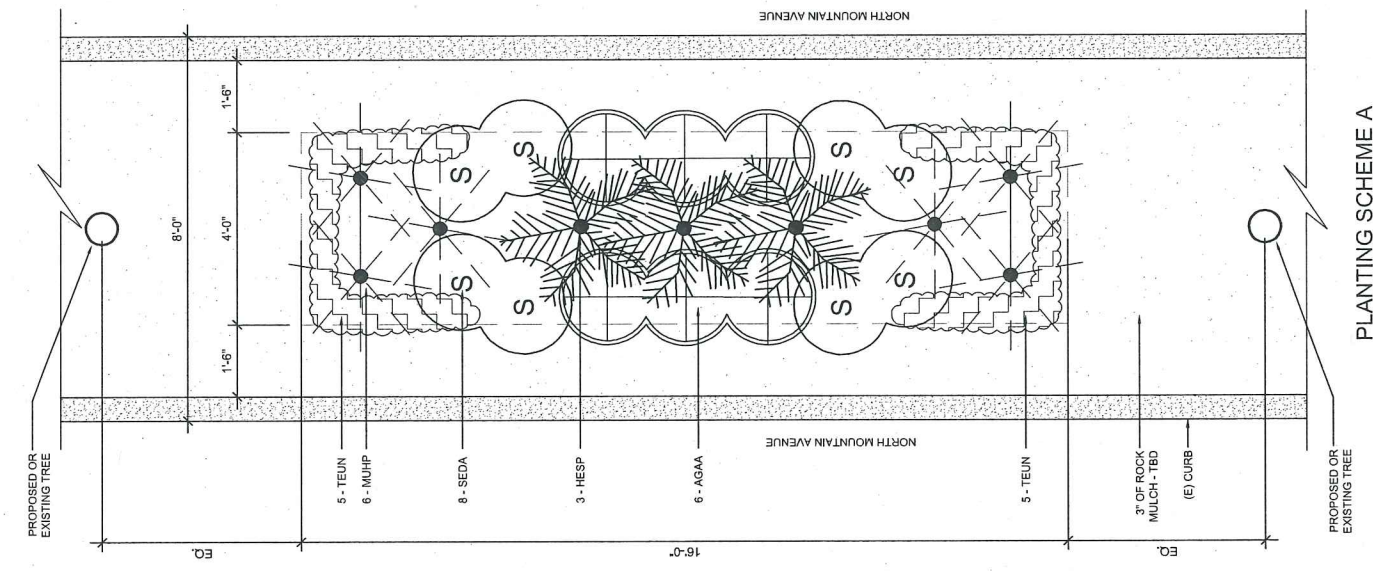
PLANT LEGEND		SYMBOL	SCIENTIFIC NAME	COMMON NAME	SIZE
PERENNIALS	ACEG	ACER GRANDIDENTATUM	'BIG TOOTH MAPLE'		2" CAL
	TILC	TILIA CORDATA	LITTLE LEAF LINDEN		2" CAL
	QUER	QUERCUS RUBRA	RED OAK		2" CAL
SHRUBS AND GRASSES	AGAA	AGASTACHE 'APRICOOT SPRITE'	APRICOOT SPRITE HYSSOP		1 GAL
	AGAP	AGASTACHE 'PURPLE HAZE'	PURPLE HAZE HYSSOP		1 GAL
	BAPA	BAPTISIA AUSTRALIS	BLUE FALSE INDIGO		1 GAL
	CARD	CARYOPTERIS 'DARK NIGHT'	DARK NIGHT BLUEBEARD		1 GAL
	FESS	FESTUCA 'SISKIYOU BLUE'	SISKIYOU BLUE IDAHO FESCUE		1 GAL
	HELH	HELIANTHEMUM 'HENFIELD BRILLIANT'	SUNROSE 'HENFIELD BRILLIANT'		1 GAL
	HESP	HEMIFLOECIA 'PINK MOUNTAIN'	PINK MOUNTAIN MIMULUS		1 GAL
	NEPP	NEPETA 'PURSIAN BLUE'	PURSIAN BLUE CATMINT		1 GAL
	PANH	NEPETA 'HEAVY METAL'	HEAVY METAL PRAIRIE GRASS		1 GAL
	PENM	PENSTEMON 'MARGARITA BOP'	MARGARITA BOP PENSTEMON		1 GAL
	PERL	PEROVSKIA 'LITTLE SPIRE'	LITTLE SPIRE DWARF BLUE RUSSIAN SAGE		1 GAL
	SEDA	SEDUM 'AUTUMN FIRE'	AUTUMN FIRE UPRIGHT SEDUM		1 GAL
	TEUN	TEUCRIUM 'NANA'	DWARF CREEPING GERMANDER		1 GAL

NOTES

- REMOVE (E) TUBE WITH SOD CUTTER WHERE FEASIBLE AVOIDING ALL ROOT ZONES OF EXISTING TREES.
- WITHIN DRIPLINE OF EXISTING TREES INSTALL RECYCLED NEWSPAPER AND OVERLAP TO PREVENT GAPS AND COVER WITH 3" OF 1-3" DRAIN ROCK MULCH AFTER COMPLETION OF IRRIGATION AND PLANTING. ROCK MULCH AVAILABLE AT KNIFE RIVER.
- LANDSCAPE CONTRACTOR SHALL REUSE (E) MAINLINE AND CONTROLLER IF FEASIBLE DO NOT DISTURB (E) TREE ROOT ZONES. CONTRACTOR SHALL VERIFY (E) TREE ROOT ZONES BY EXCAVATING AND PROPOSED TREES AS SHOWN ON THE DETAILS BELOW AND SHEET L-2.0.
- LANDSCAPE CONTRACTOR SHALL VERIFY A MINIMUM OF 12" OF TOPSOIL IN ALL AREAS TO BE PLANTED IN SCHEMES A-C. LANDSCAPE CONTRACTOR SHALL VERIFY 18" OF TOPSOIL DEPTH IN ALL PROPOSED TREE LOCATIONS AND IMPORT 'TOPSOIL PLUS' FROM HILTON FUEL AS REQUIRED.
- INSTALL IRRIGATION PER PLAN.
- VERIFY ON SITE LAYOUT OF PLANTS WITH LA PRIOR TO PLANTING. AFTER PLANTING PER DETAIL MULCH TO FIRE MEDIUM WITH 5" OF 1-3" DRAIN ROCK MULCH AVAILABLE AT KNIFE RIVER.

1 SHRUB PLANTING DETAIL

2 TREE PLANTING DETAIL



Laurie Sager
 AND ASSOCIATES LANDSCAPE ARCHITECTS INC
 700 MISTLETOE ROAD, SUITE 201
 ASHLAND, OREGON 97520



Revision Date:
 Drawn By:
 11X17 Scale: 1" = 4'-0"
 24X36 Scale: 1" = 2'-0"

CITY OF ASHLAND PUBLIC WORKS DEPT.
 NORTH MOUNTAIN AVE. MEDIAN
 ASHLAND, OREGON

