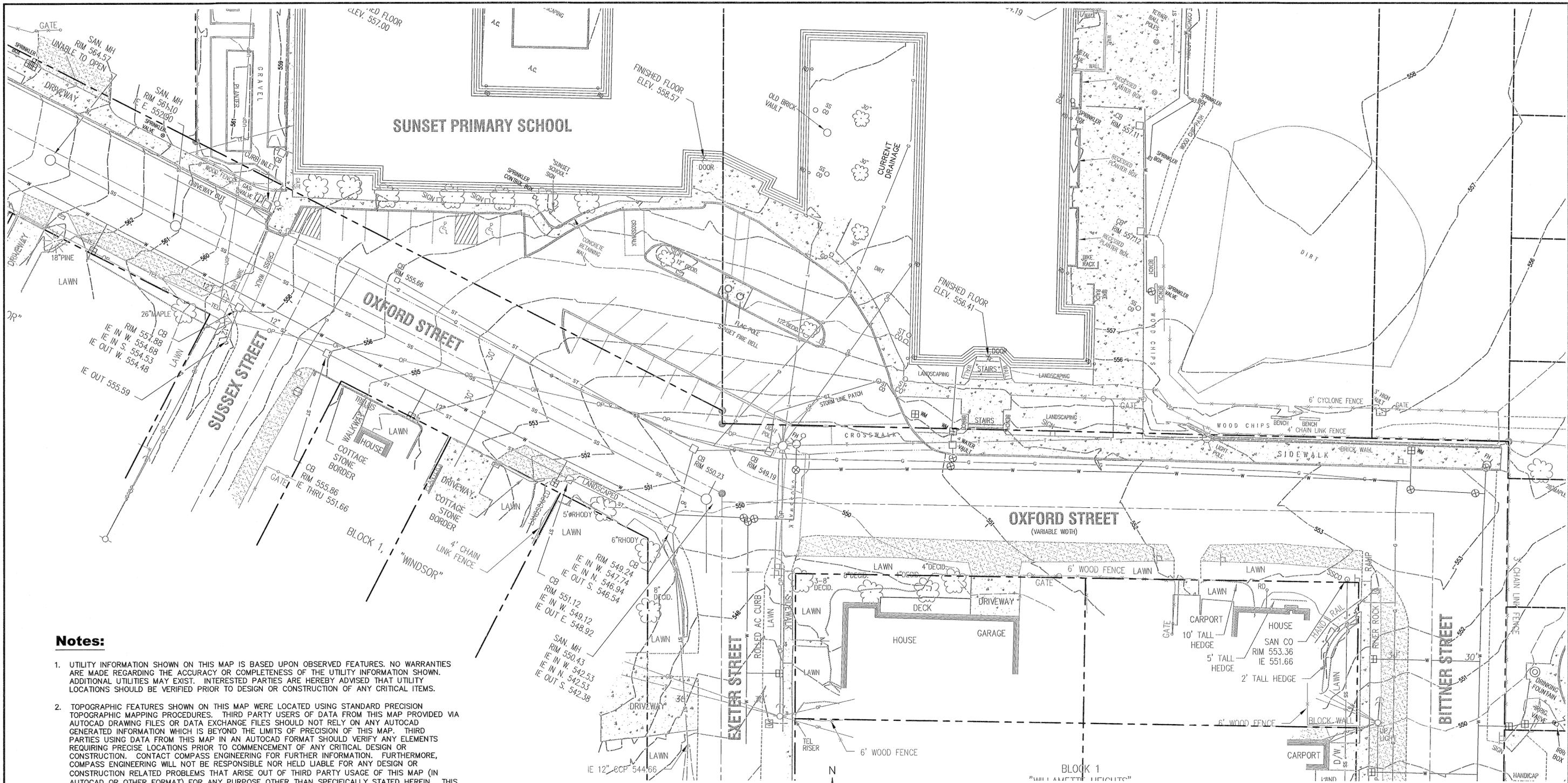




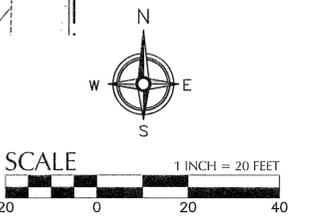


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 Plotted: 6/10/16 at 5:54pm BY: rcoado  
 22434 XREFS: 5087-XSV-DONT-EDIT 5087-XB 5087-PW-XB-22X34



**Notes:**

- UTILITY INFORMATION SHOWN ON THIS MAP IS BASED UPON OBSERVED FEATURES. NO WARRANTIES ARE MADE REGARDING THE ACCURACY OR COMPLETENESS OF THE UTILITY INFORMATION SHOWN. ADDITIONAL UTILITIES MAY EXIST. INTERESTED PARTIES ARE HEREBY ADVISED THAT UTILITY LOCATIONS SHOULD BE VERIFIED PRIOR TO DESIGN OR CONSTRUCTION OF ANY CRITICAL ITEMS.
- TOPOGRAPHIC FEATURES SHOWN ON THIS MAP WERE LOCATED USING STANDARD PRECISION TOPOGRAPHIC MAPPING PROCEDURES. THIRD PARTY USERS OF DATA FROM THIS MAP PROVIDED VIA AUTOCAD DRAWING FILES OR DATA EXCHANGE FILES SHOULD NOT RELY ON ANY AUTOCAD GENERATED INFORMATION WHICH IS BEYOND THE LIMITS OF PRECISION OF THIS MAP. THIRD PARTIES USING DATA FROM THIS MAP IN AN AUTOCAD FORMAT SHOULD VERIFY ANY ELEMENTS REQUIRING PRECISE LOCATIONS PRIOR TO COMMENCEMENT OF ANY CRITICAL DESIGN OR CONSTRUCTION. CONTACT COMPASS ENGINEERING FOR FURTHER INFORMATION. FURTHERMORE, COMPASS ENGINEERING WILL NOT BE RESPONSIBLE NOR HELD LIABLE FOR ANY DESIGN OR CONSTRUCTION RELATED PROBLEMS THAT ARISE OUT OF THIRD PARTY USAGE OF THIS MAP (IN AUTOCAD OR OTHER FORMAT) FOR ANY PURPOSE OTHER THAN SPECIFICALLY STATED HEREIN. THIS STATEMENT IS AN OFFICIAL PART OF THIS MAP.
- BASIS OF ELEVATIONS IS NAVD '88 UTILIZING GPS OBSERVATIONS ON HARN STATION "TERM" IN OREGON CITY, UPDATED 2-25-09.
- CONTOUR INTERVALS ARE ONE FOOT.
- EASEMENTS NOT SHOWN.
- THE LOCATION OF BUILDINGS SHOWN ON THIS SURVEY ARE BASED UPON FIELD MEASUREMENTS TAKEN AT THE BUILDING FACE.
- THIS SURVEY DOES NOT CONSTITUTE A BOUNDARY SURVEY AND SHOULD NOT BE CONSTRUED AS SUCH. PROPERTY LINES SHOWN ARE BASED ON EXISTING MONUMENTS AND SURVEYS OF RECORD.



**Legend:**

- FIRE HYDRANT
- WATER METER
- WATER VALVE
- SIGN
- FOUND MONUMENT
- GAS LINE
- OVERHEAD PHONE LINE
- OVERHEAD POWER LINE
- SANITARY SEWER LINE
- STORM SEWER LINE
- WATER LINE
- EDGE OF PAVEMENT



**COMPASS Land Surveyors**  
 4107 SE International Way, Suite 705  
 Milwaukie, Oregon 97222 503-653-9093

REVISION	DATE	DESCRIPTION	BY
	6/15/16	CONFORMED SET	
	4/19/16	BID SET	



111 SW Fifth Ave., Suite 2500  
 Portland, OR 97204  
 O: 503.227.3251  
 F: 503.224.4681  
 www.kpff.com

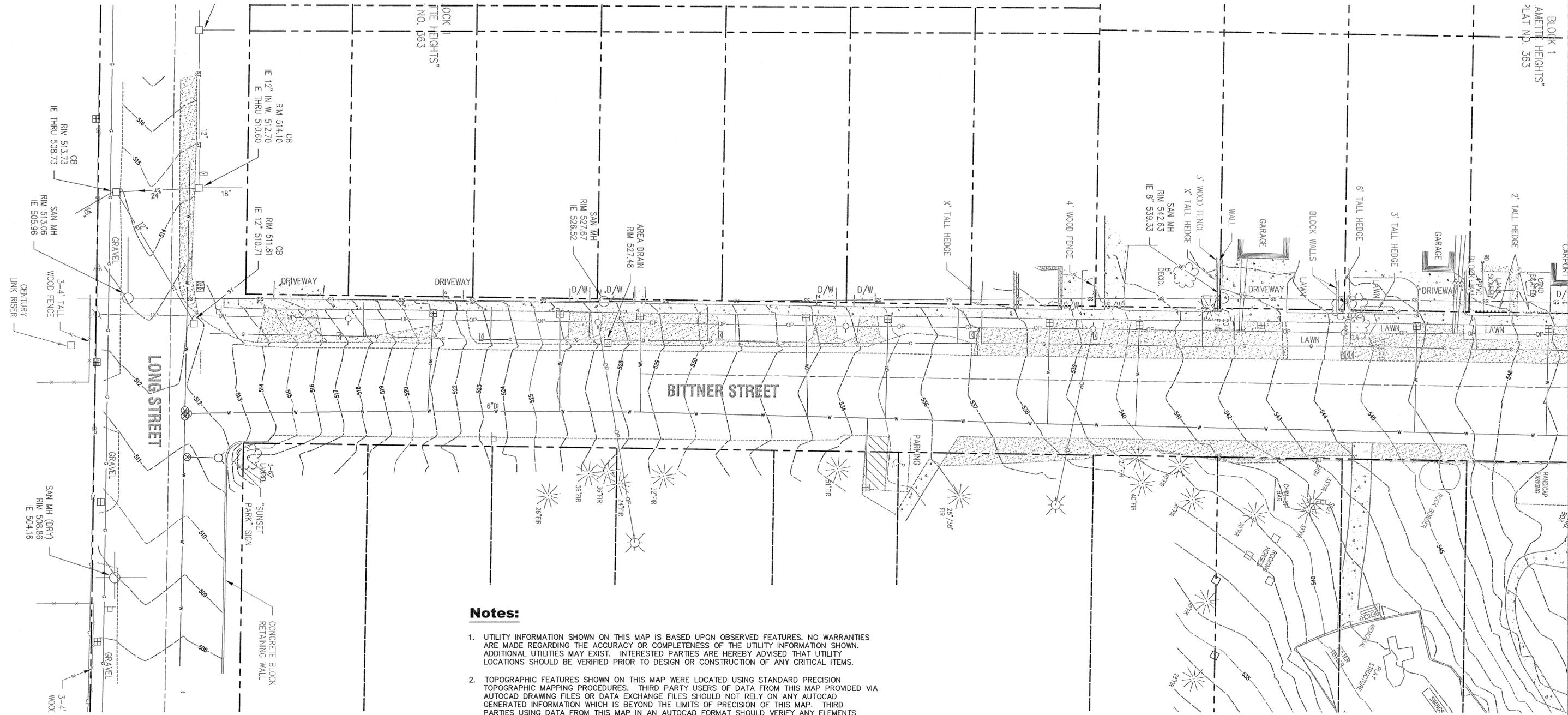


JOB No.:	315087
DESIGNED BY:	DFTL
DRAWN BY:	RC
CHECKED BY:	MW
PLOT DATE:	6/10/16 5:54pm
PLOTTED BY:	rcadau
DWG NAME:	PIC0.4-EX-COND.dwg
TAB NAME:	C0.3

APPROVED FOR CONSTRUCTION BY  
 CITY OF WEST LINN  
 PUBLIC IMPROVEMENT PLANS  
 SUNSET PRIMARY SCHOOL  
 CITY OF WEST LINN, OR  
 EXISTING CONDITIONS PLAN  
 DATE: 7/11/16 BY: [Signature]

SHEET NO.  
**C0.3**  
 SHEET 3 OF 41  
 RECORD NO.  
 315087-3

BLOCK 1  
"AMLETTE HEIGHTS"  
PLAT NO. 363

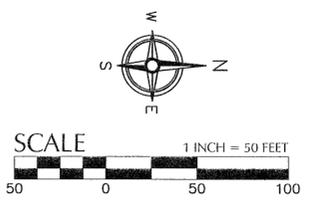


**Notes:**

- UTILITY INFORMATION SHOWN ON THIS MAP IS BASED UPON OBSERVED FEATURES. NO WARRANTIES ARE MADE REGARDING THE ACCURACY OR COMPLETENESS OF THE UTILITY INFORMATION SHOWN. ADDITIONAL UTILITIES MAY EXIST. INTERESTED PARTIES ARE HEREBY ADVISED THAT UTILITY LOCATIONS SHOULD BE VERIFIED PRIOR TO DESIGN OR CONSTRUCTION OF ANY CRITICAL ITEMS.
- TOPOGRAPHIC FEATURES SHOWN ON THIS MAP WERE LOCATED USING STANDARD PRECISION TOPOGRAPHIC MAPPING PROCEDURES. THIRD PARTY USERS OF DATA FROM THIS MAP PROVIDED VIA AUTOCAD DRAWING FILES OR DATA EXCHANGE FILES SHOULD NOT RELY ON ANY AUTOCAD GENERATED INFORMATION WHICH IS BEYOND THE LIMITS OF PRECISION OF THIS MAP. THIRD PARTIES USING DATA FROM THIS MAP IN AN AUTOCAD FORMAT SHOULD VERIFY ANY ELEMENTS REQUIRING PRECISE LOCATIONS PRIOR TO COMMENCEMENT OF ANY CRITICAL DESIGN OR CONSTRUCTION. CONTACT COMPASS ENGINEERING FOR FURTHER INFORMATION. FURTHERMORE, COMPASS ENGINEERING WILL NOT BE RESPONSIBLE NOR HELD LIABLE FOR ANY DESIGN OR CONSTRUCTION RELATED PROBLEMS THAT ARISE OUT OF THIRD PARTY USAGE OF THIS MAP (IN AUTOCAD OR OTHER FORMAT) FOR ANY PURPOSE OTHER THAN SPECIFICALLY STATED HEREIN. THIS STATEMENT IS AN OFFICIAL PART OF THIS MAP.
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**Legend:**

- FIRE HYDRANT
- WATER METER
- WATER VALVE
- SIGN
- FOUND MONUMENT
- GAS LINE
- OVERHEAD PHONE LINE
- OVERHEAD POWER LINE
- SANITARY SEWER LINE
- STORM SEWER LINE
- WATER LINE
- EDGE OF PAVEMENT



**COMPASS Land Surveyors**  
4107 SE International Way, Suite 705  
Milwaukie, Oregon 97222 503-653-9093

File: N:\c:\p\2015\315087-sunset-primary-school\CAD\PLANT\PUBLIC\PIC0.4-EX-COND.dwg TAB: C0.4  
 Plotted: 6/10/16 at 5:55pm By: rcaudac  
 2234 XREFS: 5087-xv-DONT-EDIT 5087-xb 5087-pw-xib-22x34

REVISION	DATE	DESCRIPTION	BY
	6/15/16	CONFORMED SET	
	4/19/16	BID SET	



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JOB No.: 315087  
DESIGNED BY: DF/TL  
DRAWN BY: RC  
CHECKED BY: MW  
PLOT DATE: 6/10/16 5:55pm  
PLOTTED BY: rcaudac  
DWG NAME: PIC0.4-EX-COND.dwg  
TAB NAME: C0.4

2351 OXFORD ST, WEST LINN, OR 97068  
APPROVED FOR CONSTRUCTION BY  
CITY OF WEST LINN  
PUBLIC IMPROVEMENT PLANS  
DESIGNED BY: COMPASS ENGINEERING  
SUNSET PRIMARY SCHOOL  
CITY OF WEST LINN, OR  
EXISTING CONDITIONS PLAN  
DATE: 6/10/16 BY: K.W.J. D.L.

SHEET NO.  
**C0.4**  
SHEET 4 OF 41  
RECORD NO.  
315087-4



SHEET NOTES

- 1 CONTRACTOR TO IDENTIFY EXISTING ROOF DRAINS CONNECTED INTO EXISTING STORM SYSTEM AND RECONNECT TO NEW STORM SYSTEM. FOR REFERENCE SEE STORM DRAINAGE PLANS.
- PR-01 2. CONTRACTOR SHALL NOTIFY AND COORDINATE WITH PROPERTY OWNERS THAT ARE BEING AFFECTED BY CONSTRUCTION.

**X** PROTECTION NOTES

- 1 PROTECT UNDERGROUND UTILITY
- 2 PROTECT MONUMENT. RESET BY LICENSED SURVEYOR IF DAMAGED
- 3 PROTECT UTILITY POLE.

**X** DEMOLITION NOTES

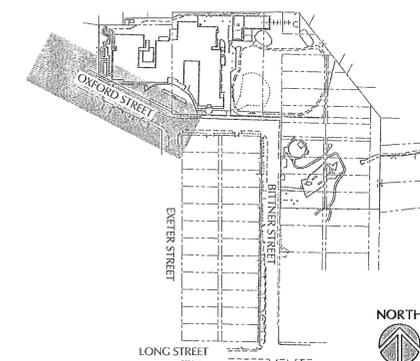
- 30 REMOVE CONCRETE CURB
- 31 REMOVE CONCRETE SIDEWALK
- 32 REMOVE EXISTING ASPHALT PAVING SECTION TO SAWCUT LINE AND DOWN TO ADEQUATE SUBGRADE TO PROVIDE COMPLETE NEW PAVING SECTION AS DETAILED IN TYPICAL SECTIONS.
- 33 REMOVE EXISTING GRAVEL SHOULDER DOWN TO ADEQUATE SUBGRADE TO PROVIDE COMPLETE NEW PAVING SECTION AS DETAILED IN TYPICAL SECTIONS.
- 35 REMOVE EXISTING CATCH BASIN AND STORM PIPE, SEE SHEET NOTE 1.
- 36 REMOVE AND SALVAGE EXISTING MAILBOX. REINSTALL ON NEW MAILBOX SUPPORT AT LOCATION SHOWN ON ROAD ON SHEET C3.2.

PR-01 **X** REMOVE EXISTING UTILITY POLE AND GUY WIRE.

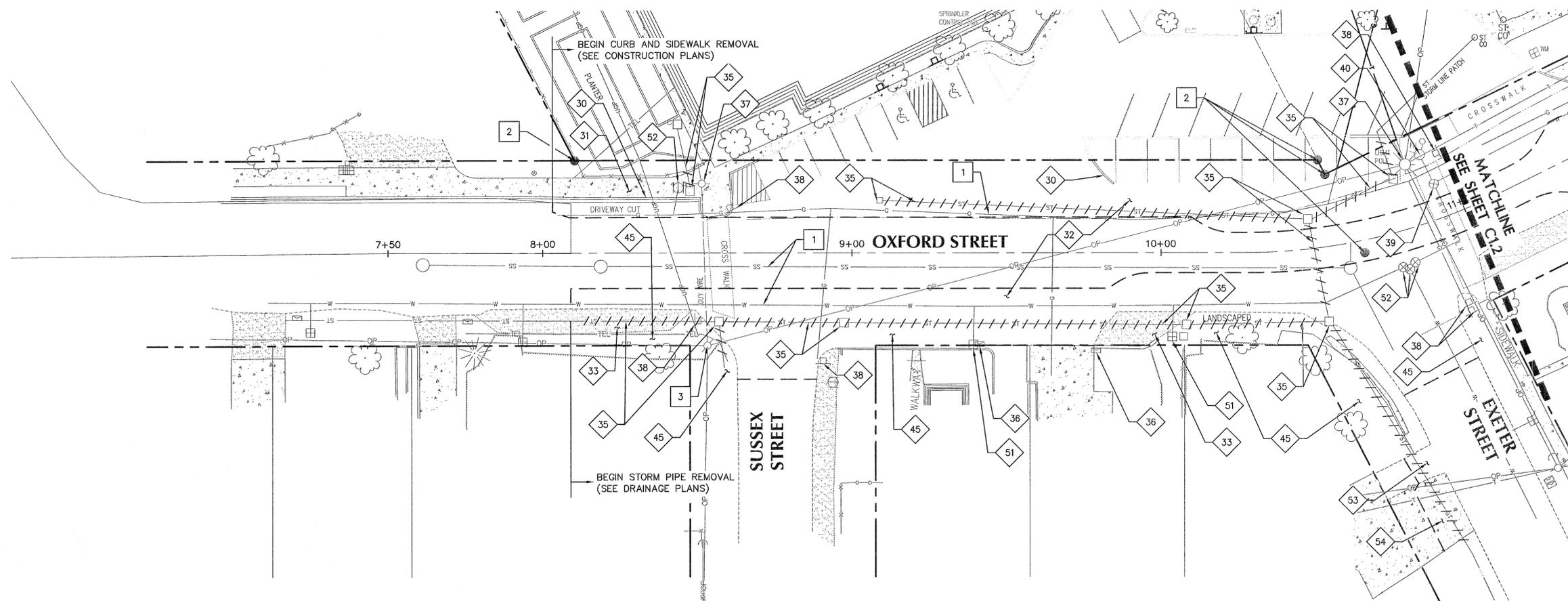
- 38 REMOVE AND SALVAGE EXISTING SIGN. REINSTALL ON NEW SUPPORT AT LOCATION SHOWN ON SHEET C3.1, C3.2, AND C3.3.
- 39 REMOVE VALVE. (SEE ARCH. PHASING DRAWINGS)
- 40 REMOVE FIRE HYDRANT. (SEE ARCH. PHASING DRAWINGS)
- 45 REMOVE EXISTING VEGETATION TO ROW LINE THAT CONFLICTS WITH PROPOSED LANDSCAPING. SEE LANDSCAPING PLANS FOR REFERENCE
- 51 ADJUST WATER METER TO PROPOSED FG.
- 52 ADJUST VALVE TO PROPOSED FG.
- 53 REMOVE AC DRIVEWAY
- 54 REMOVE CONCRETE DRIVEWAY AT EXISTING JOINT.

SHEET LEGEND

- RIGHT-OF-WAY
- - - EASEMENT
- - - SAWCUT
- //// STORM PIPE REMOVAL (SEE SHEET NOTE 1)
- X** REMOVE TREE



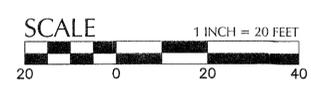
KEY MAP



OXFORD STREET - PLAN  
SCALE: 1" = 20'

File: N:\c:\p\2015\315087-sunset-primary-school\plot\public\pic1.0-DEMO.dwg TAB: C1.1  
 Plotted: 6/10/16 at 5:57pm By: rcaudua  
 XREFs: 5087-pw-xtb-22434 5087-xsv 5087-xst 5087-pw-xst 5087-pw-xsd 5087-pw-xut SFS 8.5 x 11 ADDENDUM NO.1  
 22434

REVISION	DATE	DESCRIPTION	BY
	6/15/16	CONFORMED SET	
	4/19/16	BID SET	



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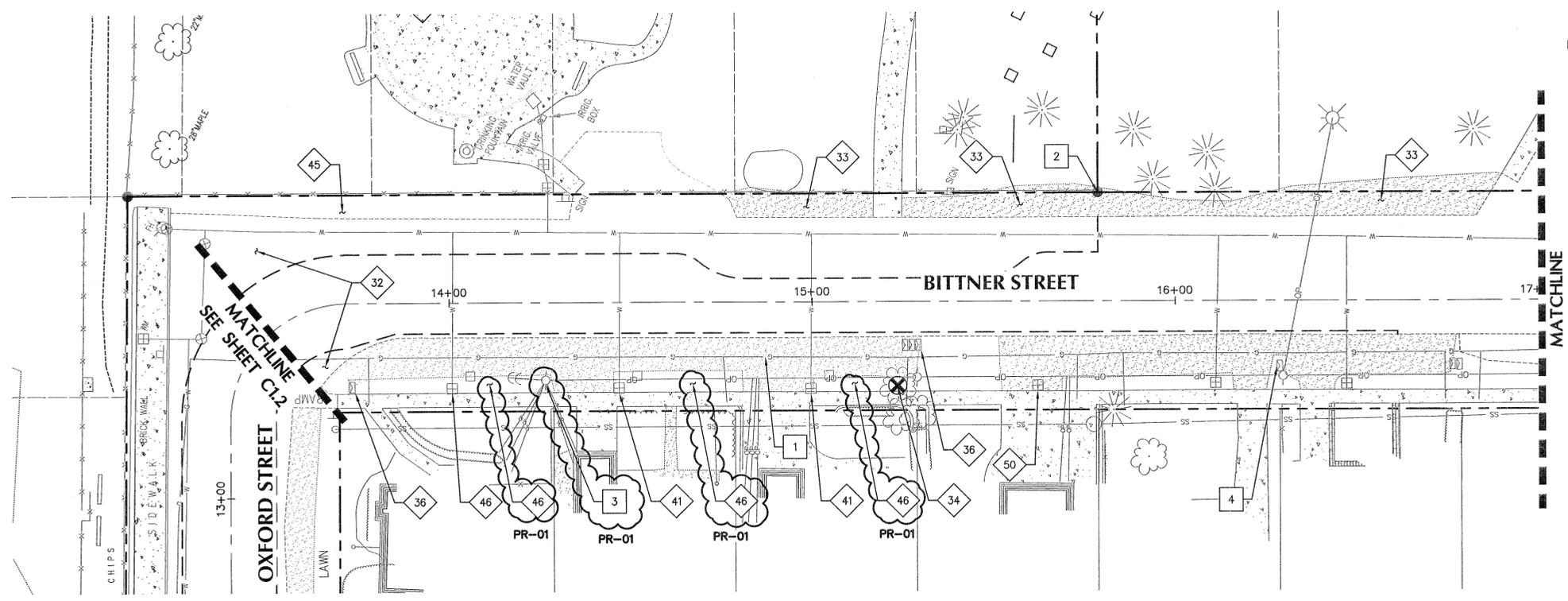
JOB No.:	315087
DESIGNED BY:	DF/TL
DRAWN BY:	RC
CHECKED BY:	MW
PLOT DATE:	6/10/16 5:57pm
PLOTTED BY:	rcaudua
DWG NAME:	PIC1.0-DEMO.dwg
TAB NAME:	C1.1

2351 OXFORD ST, WEST LINN, OR 97068, OREGON FOR CONSTRUCTION BY  
 CITY OF WEST LINN  
 PUBLIC IMPROVEMENT PROJECT  
 SUNSET PRIMARY SCHOOL  
 CITY OF WEST LINN, OREGON  
 OXFORD STREET - DEMOLITION PLAN  
 DATE: 6/10/16 BY: KWS & P

SHEET	6	OF	41
RECORD NO.	315087-6		



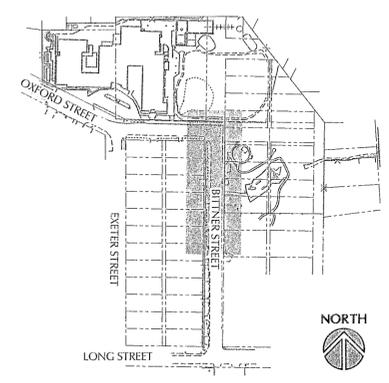
File: N:\A\2015\315087-sunset-primary-school\CAD\PLANT\PUBLIC\PIC1.0-DEMO.dwg TAB: C1.3  
 Project: 5087-PR-01-22.34  
 Date: 6/15/16  
 22.34



**BITTNER STREET - PLAN**  
SCALE: 1" = 20'

- X PROTECTION NOTES**
- 1 PROTECT UNDERGROUND UTILITY
  - 2 PROTECT MONUMENT. RESET BY LICENSED SURVEYOR IF DAMAGED
  - 3 PROTECT UTILITY POLE
  - 4 PROTECT MAILBOX
- X DEMOLITION NOTES**
- 32 REMOVE EXISTING ASPHALT PAVING SECTION TO SAWCUT LINE AND DOWN TO ADEQUATE SUBGRADE TO PROVIDE COMPLETE NEW PAVING SECTION AS DETAILED IN TYPICAL SECTIONS.
  - 33 REMOVE EXISTING GRAVEL SHOULDER DOWN TO ADEQUATE SUBGRADE TO PROVIDE COMPLETE NEW PAVING SECTION AS DETAILED IN TYPICAL SECTIONS.
  - 34 REMOVE EXISTING TREE.
  - 36 REMOVE AND SALVAGE EXISTING MAILBOX. REINSTALL ON NEW MAILBOX SUPPORT AT LOCATION SHOWN ON SHEET C3.4.
  - 37 RELOCATE EXISTING UTILITY POLE AND GUY WIRE. (BY OTHERS)
  - 41 REMOVE WATER METER. (SEE ARCH. PHASING DRAWINGS)
  - 46 REMOVE VEGETATION TO EDGE OF EXISTING SIDEWALK. SEE LANDSCAPING PLANS FOR REFERENCE.
  - 50 ADJUST WATER METER TO PROPOSED FG.

- SHEET LEGEND**
- RIGHT-OF-WAY
  - - - EASEMENT
  - - - SAWCUT
  - ////// STORM PIPE REMOVAL (SEE SHEET NOTE 1)
  - X REMOVE TREE

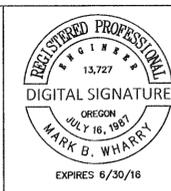


**KEY MAP**

REVISION	DATE	DESCRIPTION	BY
	6/15/16	CONFORMED SET	
	4/19/16	BID SET	



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 Portland, OR 97204  
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 F: 503.224.4681  
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JOB No.: 315087  
 DESIGNED BY: DF/TL  
 DRAWN BY: RC  
 CHECKED BY: MW  
 PLOT DATE: 6/10/16 7:10pm  
 PLOTTED BY: rcaudua  
 DWG NAME: PIC1.0-DEMO.dwg  
 TAB NAME: C1.3

2351 OXFORD ST, WEST LINN, OR 97088  
 APPROVED FOR CONSTRUCTION BY  
 CITY OF WEST LINN  
 PUBLIC IMPROVEMENT PLANS  
 SUNSET PRIMARY SCHOOL  
 CITY OF WEST LINN, OR  
 This approval is only for general conformance with applicable codes and requirements and shall not be construed as relieving the Design Engineer of full responsibility for accuracy and compliance of the drawings. This plan review does not prevent the City from making code corrections in the future.  
 DATE: 6/15/16 BY: [Signature]

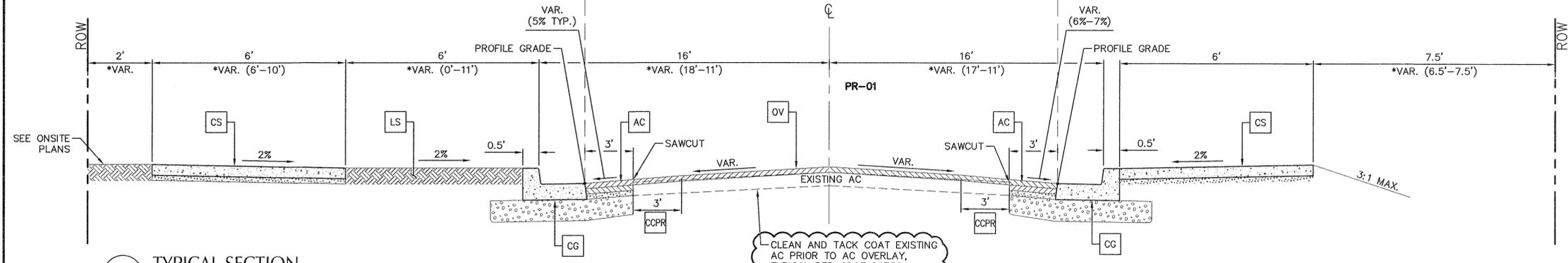
SHEET NO.  
**C1.3**  
 SHEET 8 OF 41  
 RECORD NO.  
 315087-8



PR-01



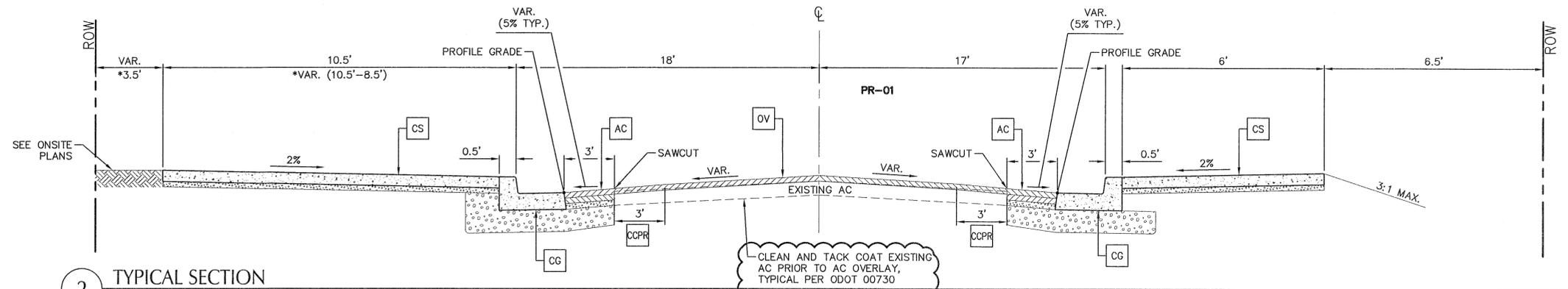
- X KEY NOTES**
- AC STREET SECTIONS PER STD. DWG. NO. WL-502.
  - CG CONCRETE CURB AND GUTTER PER STD. DWG. NO. WL-501.
  - CS CONCRETE SIDEWALK SECTION PER STD. DWG. NO. WL-508.
  - CCPR COLD PLANE PAVEMENT REMOVAL DEPTH VARIES - 1" TO 0", SEE DETAIL 3/C2.1
  - ASI-02 OV 2 INCH OVERLAY ODOT LEVEL 3, 1/2" DENSE HMAC.
  - LS LANDSCAPE. SEE LANDSCAPE PLANS.
  - PW PLANTER WALL PER DETAIL 2/C6.3.
  - SP STORMWATER PLANTER. SEE C6.X SERIES.
  - TCG THICKENED CURB AND GUTTER PER DETAIL 2/C6.5.



**1 TYPICAL SECTION**  
SCALE: NTS  
STA: 8+09.13 - STA: 9+84.21  
\* STA: 9+84.21 - STA: 11+35.52

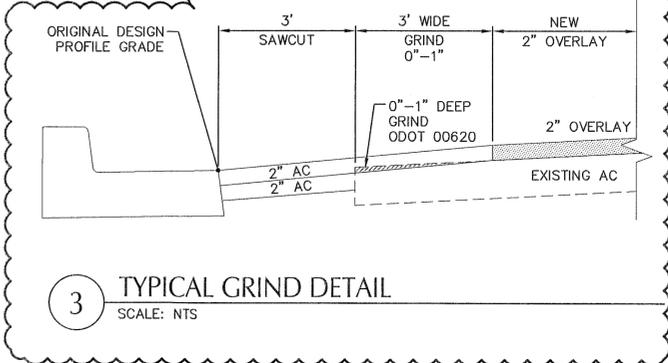
CLEAN AND TACK COAT EXISTING AC PRIOR TO AC OVERLAY, TYPICAL PER ODOT 00730

- ASI-02 SHEET NOTES**
1. PRIOR TO ASPHALT WORK IN PUBLIC RIGHT-OF-WAY CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH THE OWNER AND CITY OF WEST LINN TO WALK THE STREETS AND IDENTIFY ANY BROKEN UP PAVEMENT AREAS THAT NEED TO BE REMOVED AND RE-CONSTRUCTED PRIOR TO ASPHALT OVERLAY.



**2 TYPICAL SECTION**  
SCALE: NTS  
STA: 11+35.52 - STA: 13+63.93  
\* STA: 13+63.93 - STA: 13+72.27

CLEAN AND TACK COAT EXISTING AC PRIOR TO AC OVERLAY, TYPICAL PER ODOT 00730



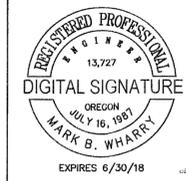
**3 TYPICAL GRIND DETAIL**  
SCALE: NTS

File: N:\p\2016\315087-Sunset-Primary-School\CAD\PLT\PUBLIC\VIC2.0-TYPSEC.dwg TAB: C2.1  
 Plotted: 7/6/16 at 2:03pm By: rcaudua  
 2234 XREFS: 5087-pw-xtb-2234

REVISION	DATE	DESCRIPTION	BY
	7/5/16	ASI-02	
	6/15/16	CONFORMED SET	
	4/19/16	BID SET	



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Portland, OR 97204  
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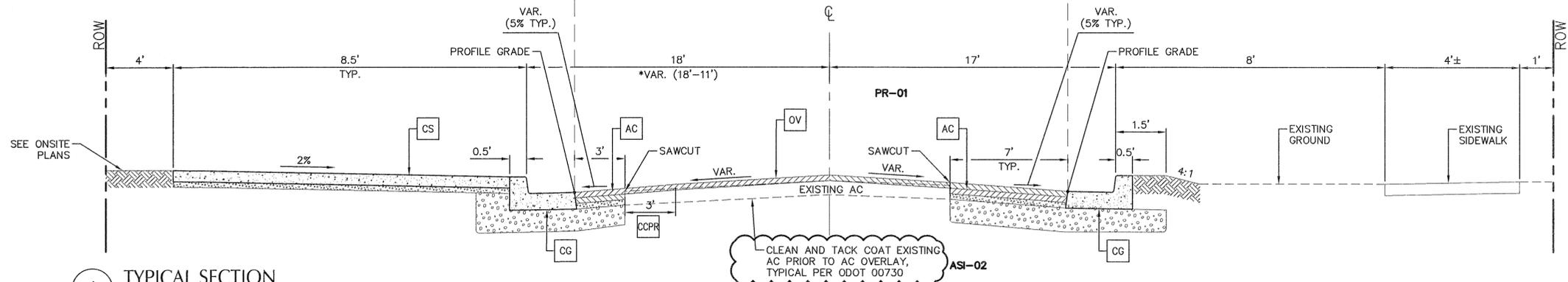
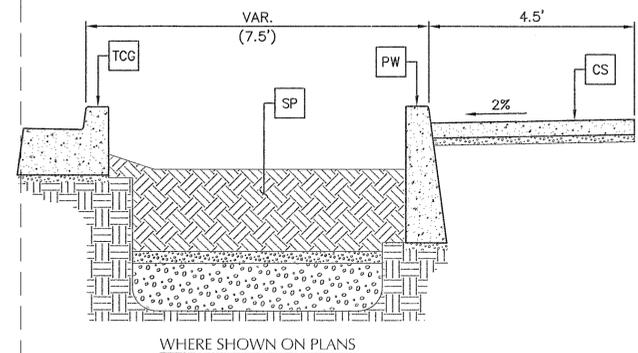
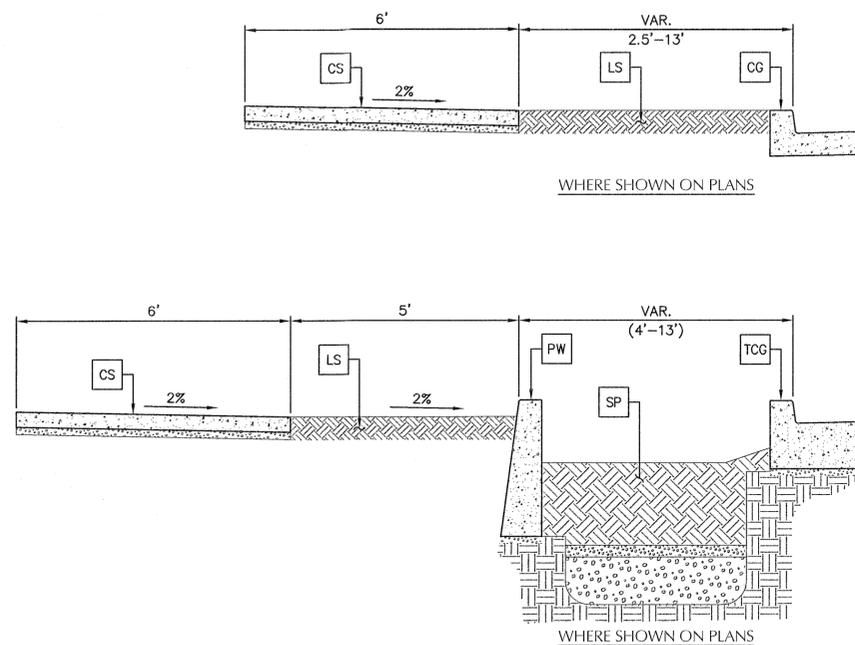


JOB No.:	315087
DESIGNED BY:	DF/TL
DRAWN BY:	RC
CHECKED BY:	MW
PLOT DATE:	7/6/16 2:03pm
PLOTTED BY:	rcaudua
DWG NAME:	PIC2.0-TYPSEC.dwg
TAB NAME:	C2.1

2351 OXFORD ST, WEST LINN, OR 97068  
**APPROVED FOR CONSTRUCTION BY**  
 CITY OF WEST LINN  
 PUBLIC IMPROVEMENT PLANS  
 SUNSET PRIMARY SCHOOL  
 CITY OF WEST LINN, OR  
 I hereby approve the design concept and general compliance with applicable codes and requirements and I accept full responsibility for accuracy and completeness of the drawings. This plan review does not prevent the City from requiring further code corrections in the field.  
 Date: 7/16/16 By: *Kuss & Co*

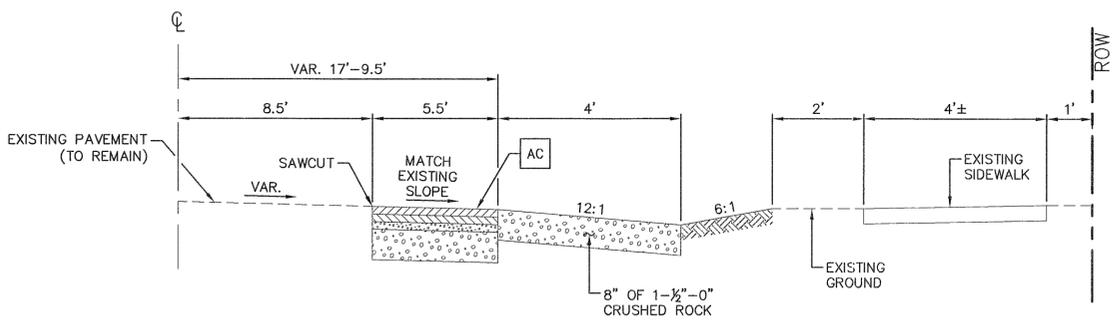
SHEET NO.  
**C2.1**  
SHEET 10 OF 41  
RECORD NO.  
315087-10

File: N:\c\p\2015\315087-Sunset-Primary-School\CAD\Plot\Public\PIC2.0-TYPSEC.dwg TAB: C2.2  
 Plotted: 7/6/16 at 2:03pm By: rcauda  
 2234 XREFs: 5087-pw-xb-2234



**1** TYPICAL SECTION  
SCALE: NTS

STA: 13+72.27 - STA: 14+62.23  
 \* STA: 14+62.23 - STA: 15+64.76  
 STA: 15+64.76 - STA: 15+78.74



**2** TYPICAL SECTION  
SCALE: NTS

STA: 15+78.74 - STA: 16+61.26  
 (ROADWAY WIDENING)

PR-01

- X KEY NOTES**
- AC STREET SECTIONS PER STD. DWG. NO. WL-502.
  - CG CONCRETE CURB AND GUTTER PER STD. DWG. NO. WL-501.
  - CS CONCRETE SIDEWALK SECTION PER STD. DWG. NO. WL-508.
  - CCPR COLD PLANE PAVEMENT REMOVAL DEPTH VARIES - 1" TO 0", SEE DETAIL 3/C2.1
  - ASI-02 OV 2 INCH OVERLAY ODOT LEVEL 3, 1/2" DENSE HMA.
  - LS LANDSCAPE. SEE LANDSCAPE PLANS.
  - PW PLANTER WALL PER DETAIL 2/C6.3.
  - SP STORMWATER PLANTER. SEE C6.X SERIES.
  - TCG THICKENED CURB AND GUTTER PER DETAIL 2/C6.5.

- SHEET NOTES**
1. PRIOR TO ASPHALT WORK IN PUBLIC RIGHT-OF-WAY CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH THE OWNER AND CITY OF WEST LINN TO WALK THE STREETS AND IDENTIFY ANY BROKEN UP PAVEMENT AREAS THAT NEED TO BE REMOVED AND RE-CONSTRUCTED PRIOR TO ASPHALT OVERLAY.

ASI-02

REVISION	DATE	DESCRIPTION	BY
	7/5/16	ASI-02	
	6/15/16	CONFORMED SET	
	4/19/16	BID SET	



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 Portland, OR 97204  
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 F: 503.224.4681  
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JOB No.:	315087
DESIGNED BY:	DF/TL
DRAWN BY:	RC
CHECKED BY:	MW
PLOT DATE:	7/6/16 2:03pm
PLOTTED BY:	roada
DWG NAME:	PIC2.0-TYPSEC.dwg
TAB NAME:	C2.2

2351 OXFORD ST, WEST LINN, OR 97068  
 APPROVED FOR CONSTRUCTION BY  
 CITY OF WEST LINN  
 PUBLIC IMPROVEMENT DIVISION  
 SUNSET PRIMARY SCHOOL  
 CITY OF WEST LINN, OR  
 OXFORD STREET, PARK STREET, AND BITTNER STREET  
 TYPICAL SECTIONS  
 Mark B. Wharry

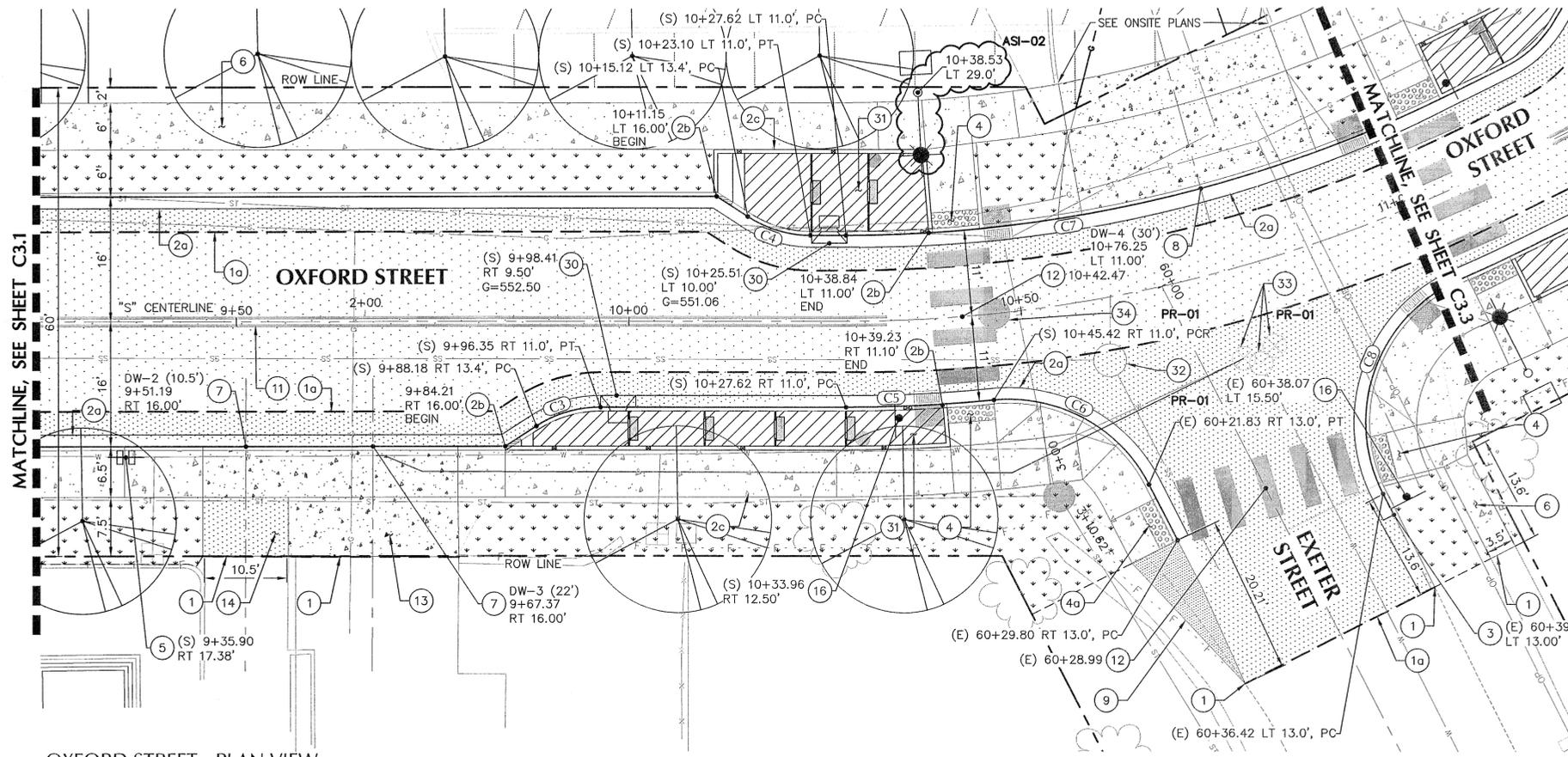
SHEET NO.	C2.2
SHEET	11 OF 41
RECORD NO.	315087-11



CURVE DATA TABLE			
CURVE NO.	LENGTH	RADIUS	DELTA
C3	8.64'	15.00'	33°00'00"
C4	8.45'	15.02'	32°13'45"
C5	18.86'	195.00'	5°32'32"
C6	23.91'	20.00'	68°29'30"
C7	79.66'	173.00'	26°22'51"
C8	32.61'	20.00'	93°25'13"

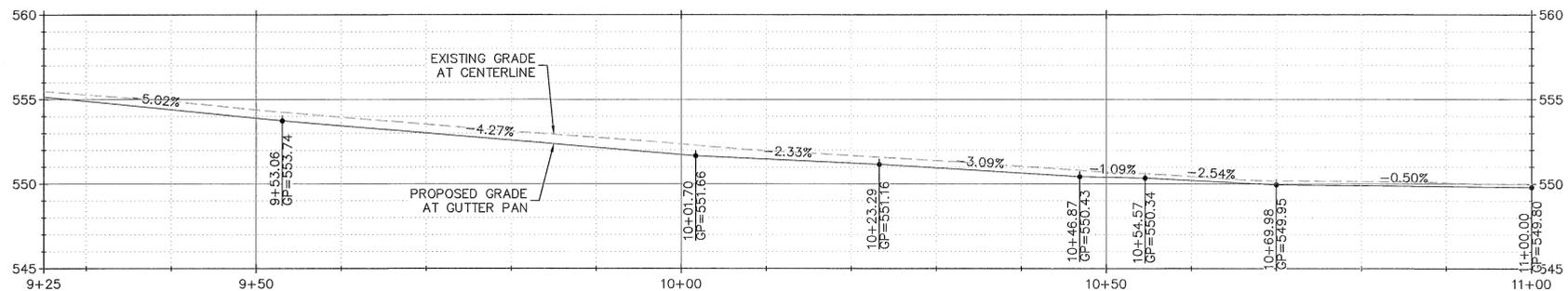
**SHEET LEGEND**

- RIGHT-OF-WAY LINE
- CENTERLINE
- FILL LINE
- SAWCUT LINE
- STORMWATER PLANTER W/ PLANTER WALLS
- AC PAVEMENT PER CWL DWG. NO. WL-502/C7.1
- 2" AC OVERLAY PER TYPICAL SECTIONS ASI-02
- LANDSCAPE. SEE LANDSCAPE PLANS
- CONCRETE SIDEWALK
- CONCRETE DRIVEWAY



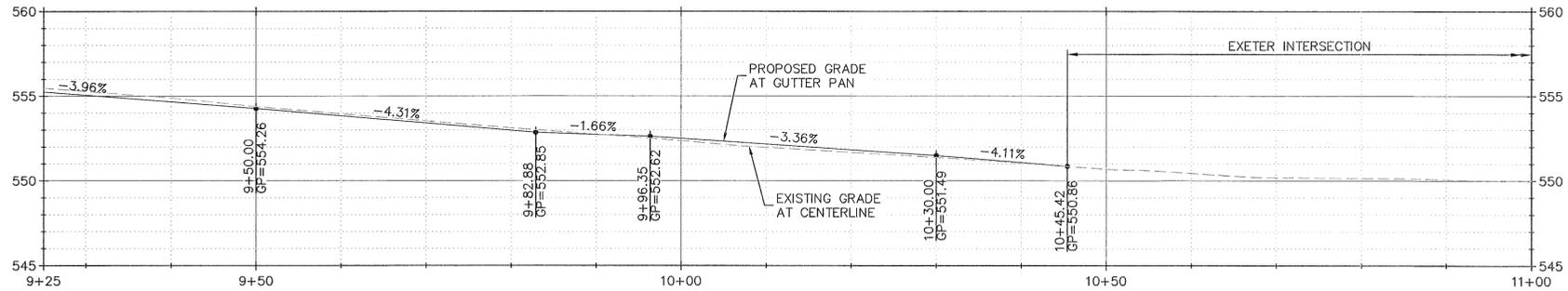
**OXFORD STREET - PLAN VIEW**

SCALE: 1" = 10'



**OXFORD STREET - PROFILE VIEW (LEFT)**

SCALE: HORIZ: 1" = 10'  
VERT: 1" = 5'



**OXFORD STREET - PROFILE VIEW (RIGHT)**

SCALE: HORIZ: 1" = 10'  
VERT: 1" = 5'

**SHEET NOTES**

- ALL DIMENSIONS ARE TO FACE OF CURB OR FACE OF WALL.
- ALL SIDEWALK PAVEMENT JOINTS SHALL BE CONSTRUCTED PER DETAIL LANDSCAPE PLANS. CONFIRM JOINT SPACING PER CWL DWG. NO. WL-508/C7.1 **PR-01**
- SEE SHEET C0.3, C0.4, AND C0.5 FOR BENCHMARK AND CONTROL INFORMATION.
- SLOPES PROVIDED ON SLOPE ARROW ARE FOR REFERENCE ONLY.
- CONTRACTOR SHALL NOTIFY AND COORDINATE WITH PROPERTY OWNERS THAT ARE BEING AFFECTED BY CONSTRUCTION. **PR-01**

**CONSTRUCTION NOTES**

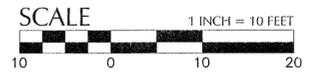
- MATCH EXISTING GRADE
- SAWCUT
- CONCRETE CURB AND GUTTER PER CWL DWG. NO. WL-501/C7.1.
- THICKENED CURB AND GUTTER PER DETAIL 2/C6.5.
- PLANTER WALL PER DETAIL 4/C6.4.
- CURB ENDING PER DETAIL 3/C6.5.
- CURB RAMP PER CWL DWG. NO. WL-506A/C7.1 AND SHT. C3.8.
- REINSTALL MAILBOX ON NEW SUPPORT PER CWL DWG. NO. WL-514/C7.1 WITH V-LOCK SYSTEM **PR-01**
- CONCRETE SIDEWALK PER CWL DWG. NO. WL-508/C7.1.
- RESIDENTIAL DRIVEWAY PER CWL DWG. NO. WL-503B/C7.1.
- COMMERCIAL DRIVEWAY PER CWL DWG. NO. WL-504A/C7.1.
- SIDEWALK RAMP AND TURNING SPACE, OPTION F PER ODOT DWG. NO. RD756 AND SHT. C3.6.
- DOUBLE YELLOW 4-INCH CENTERLINE STRIPE PER DETAIL 4/C7.5. (SEE NOTE 5)
- CROSSWALK STRIPING PER DETAIL 4/C7.5.
- CONSTRUCT CONCRETE DRIVEWAY CONNECTION PER DETAIL 1/C7.5.
- CONSTRUCT ASPHALT CONCRETE DRIVEWAY CONNECTION PER DETAIL 2/C7.5.
- INSTALL SALVAGED SIGNS WITH "BREAK AWAY" V-LOCK SYSTEM. **PR-01**
- SCUPPER DRAIN PER DETAIL 3/C6.4.
- STORM WATER PLANTER, SEE C6.X SERIES.
- ADJUST MANHOLE TO FINISHED GRADE.
- ADJUST VALVE TO FINISHED GRADE.
- ADJUST MONUMENT BOX TO FINISHED GRADE. PROTECT MONUMENT, RESET BY LICENSED SURVEYOR IF DAMAGE. **PR-01**



**KEY MAP**

File: N:\v\p\2015\315087-Sunset-Primary-School\CAD\PLANT\PUBLIC\PIC3.0-P&P.dwg TAB: C3.2  
 Plotted: 7/6/16 at 2:04pm By: rcauduc  
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REVISION	DATE	DESCRIPTION	BY
	7/5/16	ASI-02	
	6/15/16	CONFORMED SET	
	4/19/16	BID SET	



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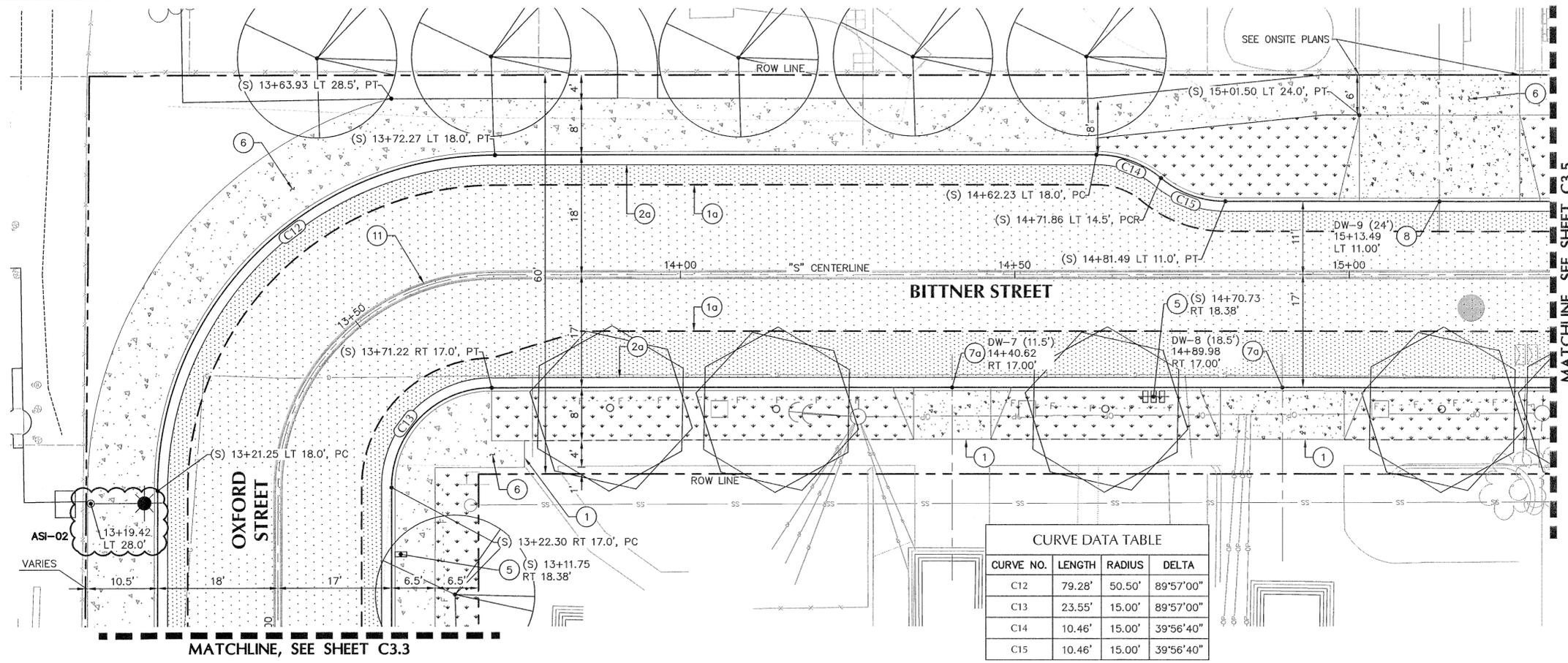
JOB No.:	315087
DESIGNED BY:	DFTL
DRAWN BY:	RC
CHECKED BY:	MW
PLOT DATE:	7/6/16 2:04pm
PLOTTED BY:	rcauduc
DWG NAME:	PIC3.0-P&P.dwg
TAB NAME:	C3.2

2351 OXFORD ST, WEST LINN, OR 97058  
 APPROVED FOR CONSTRUCTION BY  
 CITY OF WEST LINN  
 PUBLIC IMPROVEMENT PLAN  
 SUNSET PRIMARY SCHOOL  
 CITY OF WEST LINN, OR  
 This approval is only for general conformance with applicable codes and requirements and shall not be construed as relieving the Design Engineer of full responsibility for accuracy and completeness of the drawings. This plan review shall not be construed as relieving the City of West Linn of its responsibility for the accuracy of the drawings. Code corrections in the original drawings are the responsibility of the City of West Linn.  
 Date: 7/16/16 By: *Chor Clu*

SHEET NO.  
**C3.2**  
 SHEET 13 OF 41  
 RECORD NO.  
 315087-13

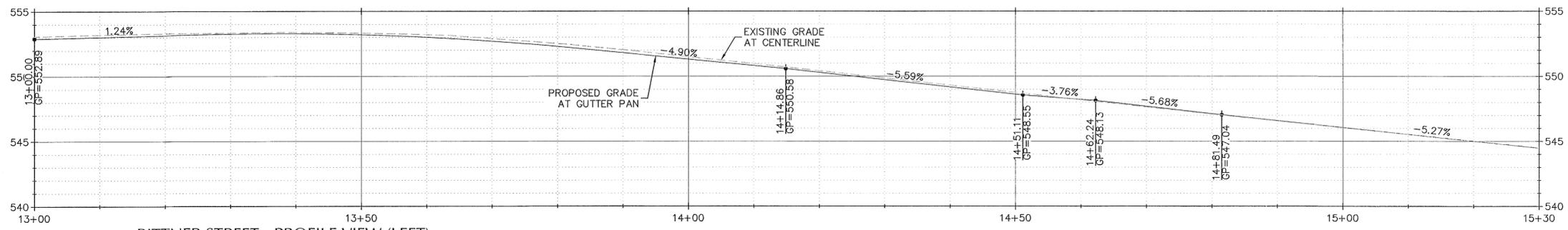


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 PLOT DATE: 7/16/2016 2:05:00 PM  
 PLOT BY: rcadua  
 PLOTED BY: rcadua  
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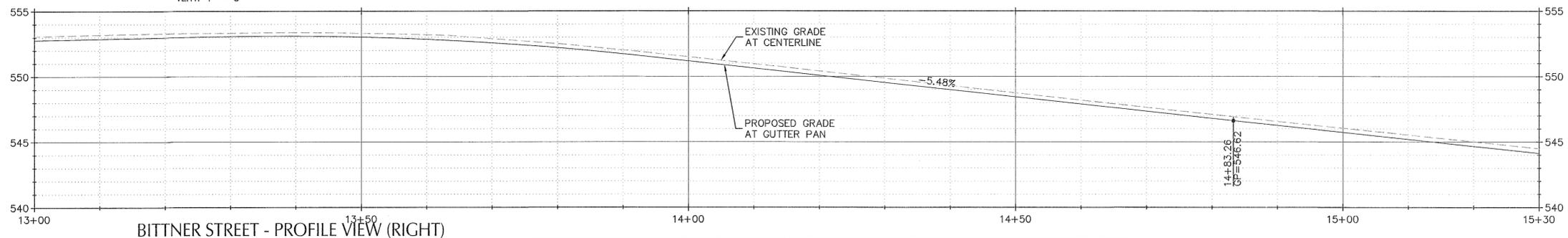


CURVE DATA TABLE			
CURVE NO.	LENGTH	RADIUS	DELTA
C12	79.28'	50.50'	89°57'00"
C13	23.55'	15.00'	89°57'00"
C14	10.46'	15.00'	39°56'40"
C15	10.46'	15.00'	39°56'40"

**BITTNER STREET - PLAN VIEW**  
SCALE: 1" = 10'



**BITTNER STREET - PROFILE VIEW (LEFT)**  
SCALE: HORIZ: 1" = 10'  
VERT: 1" = 5'

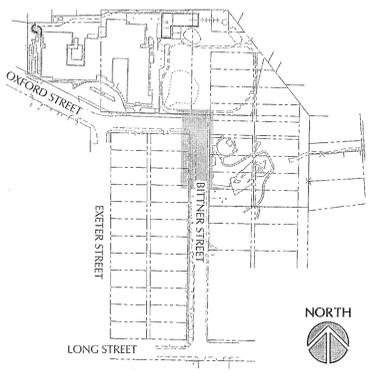


**BITTNER STREET - PROFILE VIEW (RIGHT)**  
SCALE: HORIZ: 1" = 10'  
VERT: 1" = 5'

- ### SHEET NOTES
- ALL DIMENSIONS ARE TO FACE OF CURB OR FACE OF WALL.
  - ALL SIDEWALK PAVEMENT JOINTS SHALL BE CONSTRUCTED PER DETAIL LANDSCAPE PLANS. CONFIRM JOINT SPACING PER CWL DWG. NO. WL-508/C7.1 **PR-01**
  - SEE SHEET C0.3, C0.4, AND C0.5 FOR BENCHMARK AND CONTROL INFORMATION.
  - SLOPES PROVIDED ON SLOPE ARROW ARE FOR REFERENCE ONLY.
  - CONTRACTOR SHALL NOTIFY AND COORDINATE WITH PROPERTY OWNERS THAT ARE BEING AFFECTED BY CONSTRUCTION. **PR-01**

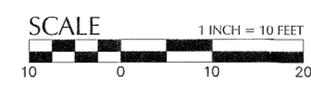
- ### CONSTRUCTION NOTES
- MATCH EXISTING GRADE
  - SAWCUT
  - CONCRETE CURB AND GUTTER PER CWL DWG. NO. WL-501/C7.1
  - REINSTALL MAILBOX ON NEW SUPPORT PER CWL DWG. NO. WL-514/C7.1 WITH V-LOCK SYSTEM **PR-01**
  - CONCRETE SIDEWALK PER CWL DWG. NO. WL-508/C7.1
  - RESIDENTIAL DRIVEWAY PER CWL DWG. NO. WL-503A/C7.1
  - COMMERCIAL DRIVEWAY PER CWL DWG. NO. WL-504A/C7.1
  - DOUBLE YELLOW 4-INCH CENTERLINE STRIPE PER DETAIL 4/C7.5. (SEE NOTE 5)

- ### SHEET LEGEND
- RIGHT-OF-WAY LINE
  - - - CENTERLINE
  - FILL LINE
  - - - SAWCUT LINE
  - [Hatched Box] STORMWATER PLANTER W/ PLANTER WALLS
  - [Dotted Box] AC PAVEMENT PER CWL DWG. NO. WL-502/C7.1
  - [Dotted Box with Circle] 2" AC OVERLAY PER TYPICAL SECTIONS **ASI-02**
  - [Patterned Box] LANDSCAPE. SEE LANDSCAPE PLANS
  - [Patterned Box] CONCRETE SIDEWALK
  - [Patterned Box] CONCRETE DRIVEWAY



**KEY MAP**

REVISION	DATE	DESCRIPTION	BY
	7/5/16	ASI-02	
	6/15/16	CONFORMED SET	
	4/19/16	BID SET	



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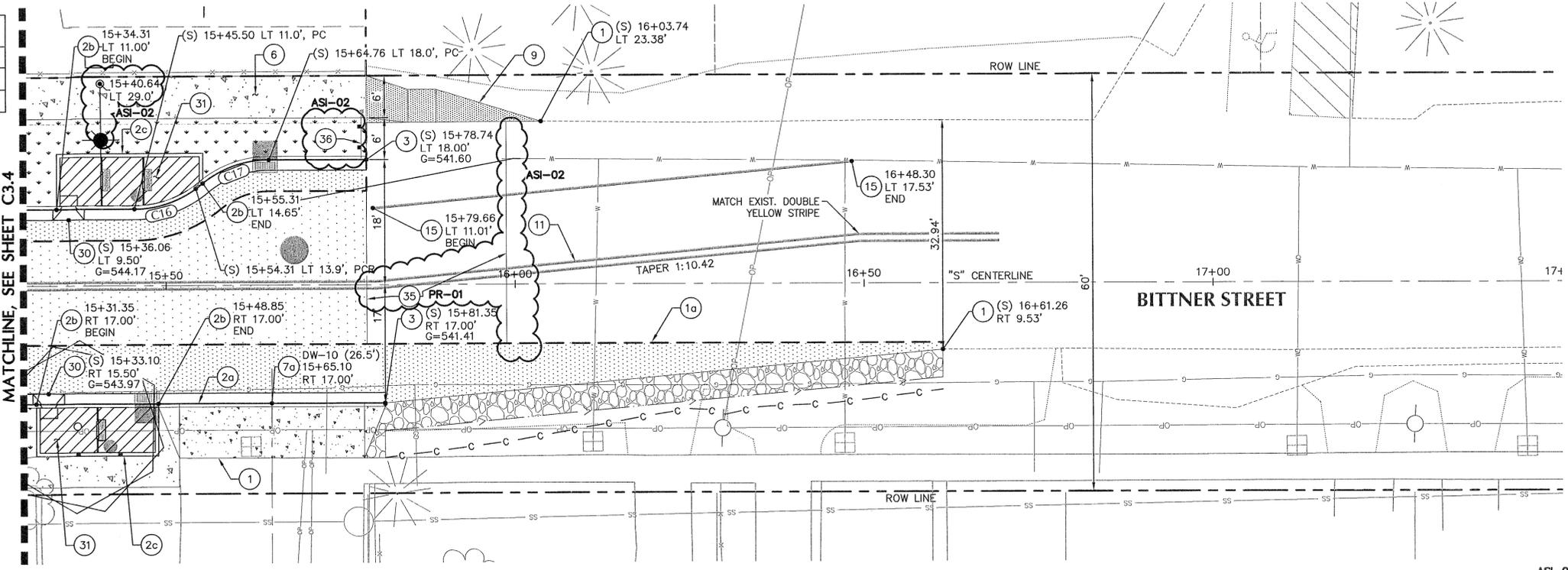


JOB No.: 315087  
DESIGNED BY: DF/TL  
DRAWN BY: RC  
CHECKED BY: MW  
PLOT DATE: 7/16/16 2:05pm  
PLOTED BY: rcadua  
DWG NAME: PIC3.0-P&P.dwg  
TAB NAME: C3.4

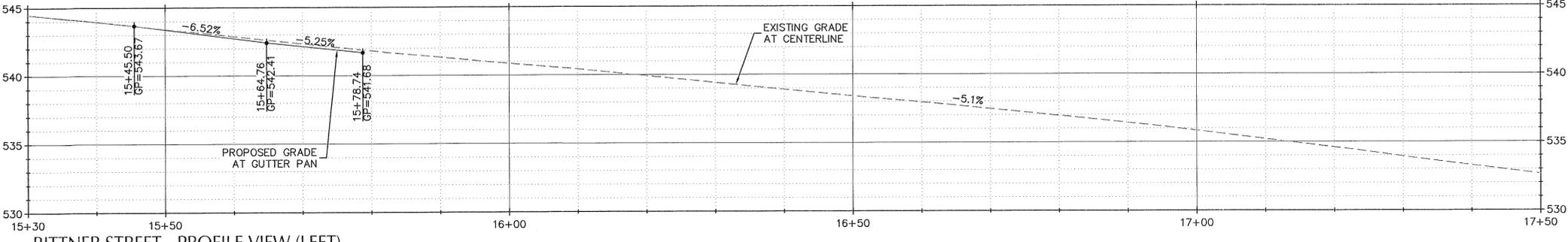
2351 OXFORD ST, WEST LINN, OR 97088  
APPROVED FOR CONSTRUCTION BY  
CITY OF WEST LINN  
PUBLIC IMPROVEMENT PLAN  
SUNSET PRIMARY SCHOOL  
CITY OF WEST LINN, OR  
BITTNER STREET - PLAN AND PROFILE  
DATE: 7/16/16 BY: [Signature]

SHEET NO. **C3.4**  
SHEET 15 OF 41  
RECORD NO. 315087-15

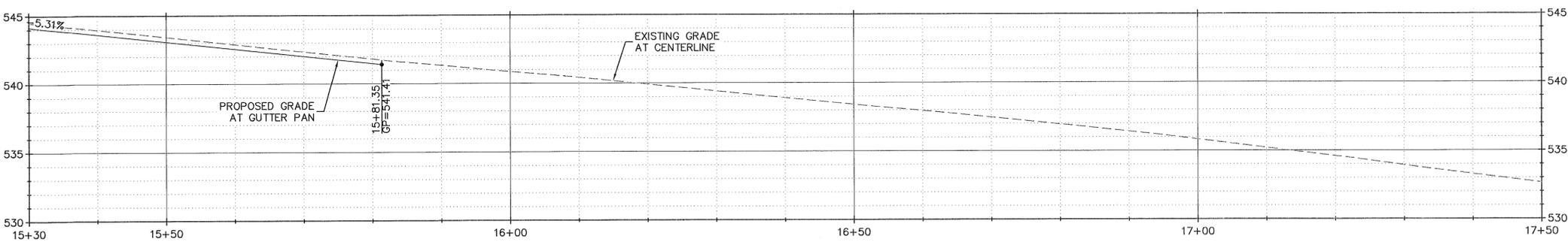
CURVE DATA TABLE			
CURVE NO.	LENGTH	RADIUS	DELTA
C16	10.46'	15.00'	39°56'40"
C17	10.46'	15.00'	39°56'40"



BITTNER STREET - PLAN VIEW  
SCALE: 1" = 10'



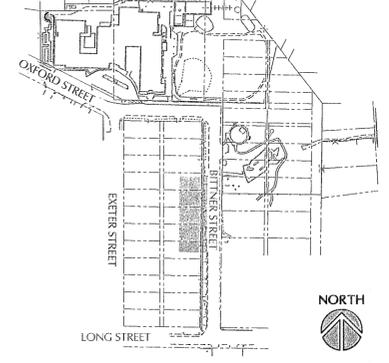
BITTNER STREET - PROFILE VIEW (LEFT)  
SCALE: HORIZ: 1" = 10'  
VERT: 1" = 5'



BITTNER STREET - PROFILE VIEW (RIGHT)  
SCALE: HORIZ: 1" = 10'  
VERT: 1" = 5'

- ### SHEET NOTES
- ALL DIMENSIONS ARE TO FACE OF CURB OR FACE OF WALL.
  - ALL SIDEWALK PAVEMENT JOINTS SHALL BE CONSTRUCTED PER DETAIL LANDSCAPE PLANS. CONFIRM JOINT SPACING PER CWL DWG. NO. WL-508/C7.1 **PR-01**
  - SEE SHEET C0.3, C0.4, AND C0.5 FOR BENCHMARK AND CONTROL INFORMATION.
  - SLOPES PROVIDED ON SLOPE ARROW ARE FOR REFERENCE ONLY.
  - REMOVE CONFLICTING STRIPING WHERE APPLICABLE PER OREGON STANDARD SPEC SECTION 00851
  - CONTRACTOR SHALL NOTIFY AND COORDINATE WITH PROPERTY OWNERS THAT ARE BEING AFFECTED BY CONSTRUCTION. **PR-01**
- ### CONSTRUCTION NOTES
- MATCH EXISTING GRADE
  - SAWCUT
  - CONCRETE CURB AND GUTTER PER CWL DWG. NO. WL-501/C7.1
  - THICKENED CURB AND GUTTER PER DETAIL 2/C6.4
  - PLANTER WALL PER DETAIL 4/C6.4
  - CURB ENDING PER DETAIL 3/C6.4
  - CONCRETE SIDEWALK PER CWL DWG. NO. WL-508/C7.1
  - RESIDENTIAL DRIVEWAY PER CWL DWG. NO. WL-503A/C7.1
  - SIDEWALK RAMP AND TURNING SPACE, OPTION F PER ODOT DWG. NO. RD756 AND SHT C3.6.
  - DOUBLE YELLOW 4-INCH CENTERLINE STRIPE PER DETAIL 4/C7.5. (SEE NOTE 5)
  - SINGLE WHITE 4-INCH FOG LINE STRIPE.
  - SCUPPER DRAIN PER DETAIL 3/C6.3
  - STORM WATER PLANTER, SEE C6.X SERIES.
  - CONSTRUCT BUTT JOINT PER DETAIL 6/C7.5.
  - INSTALL 6' WIDE TRAFFIC BARRICADE PER CWL DWG. NO. WL-516A/C7.2 **PR-01**

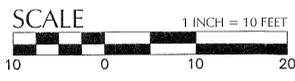
- ### SHEET LEGEND
- RIGHT-OF-WAY LINE
  - - - CENTERLINE
  - C - C - C - CUT LINE **PR-01**
  - - - SAWCUT LINE
  - [Hatched Box] STORMWATER PLANTER W/ PLANTER WALLS
  - [Dotted Box] AC PAVEMENT PER CWL DWG. NO. WL-502/C7.1
  - [Cloud Pattern Box] 2" AC OVERLAY PER TYPICAL SECTIONS **ASI-02**
  - [Star Pattern Box] LANDSCAPE. SEE LANDSCAPE PLANS
  - [Solid Box] CONCRETE SIDEWALK
  - [Dotted Box] CONCRETE DRIVEWAY
  - [Rock Pattern Box] SHOULDER ROCK PER TYPICAL SECTIONS



KEY MAP

File: N:\A\2016\315087-Sunset-Primary-School\CAD\PLT\PUBLIC\PIC3.0-P&P.dwg TAB: C3.5  
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 User: rcadua  
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REVISION	DATE	DESCRIPTION	BY
	7/5/16	ASI-02	
	6/15/16	CONFORMED SET	
	4/19/16	BID SET	



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JOB No.:	315087
DESIGNED BY:	DF/TL
DRAWN BY:	RC
CHECKED BY:	MW
PLOT DATE:	7/6/16 2:13pm
PLOTTED BY:	rcadua
DWG NAME:	PIC3.0-P&P.dwg
TAB NAME:	C3.5

2351 OXFORD ST, WEST LINN, OR 97068  
**APPROVED FOR CONSTRUCTION BY**  
 CITY OF WEST LINN  
 PUBLIC IMPROVEMENT PLAN  
 SUNSET PRIMARY SCHOOL  
 CITY OF WEST LINN, OR  
 This approval is only for general conformance with the design concept and general compliance with applicable codes and requirements and shall not be construed as relieving the Design Engineer of full responsibility for accuracy and completeness of the drawings. This plan review shall not prevent the City from approving code corrections in the drawings.  
 Date: 7/16/16 by: [Signature]

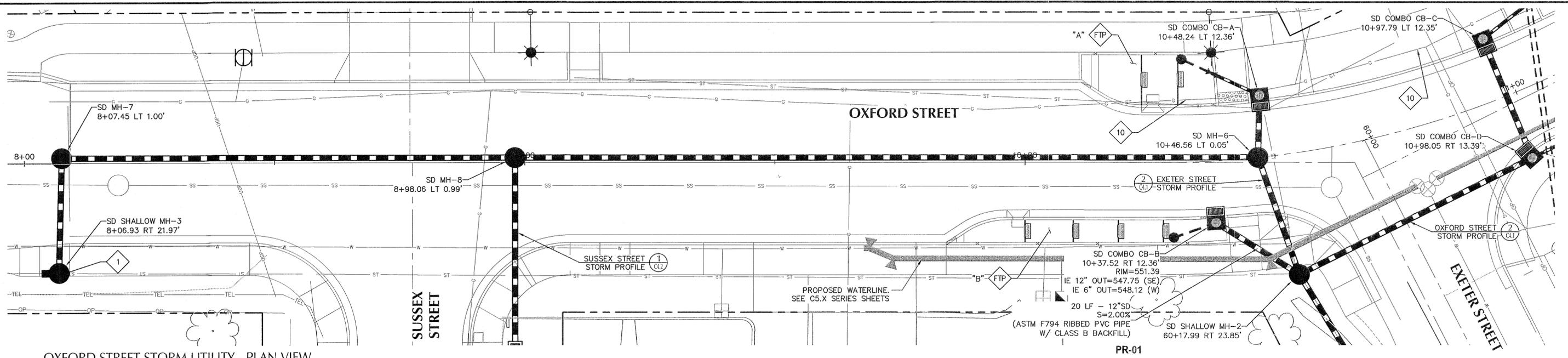
SHEET NO.	
<b>C3.5</b>	
SHEET	16 OF 41
RECORD NO.	315087-16



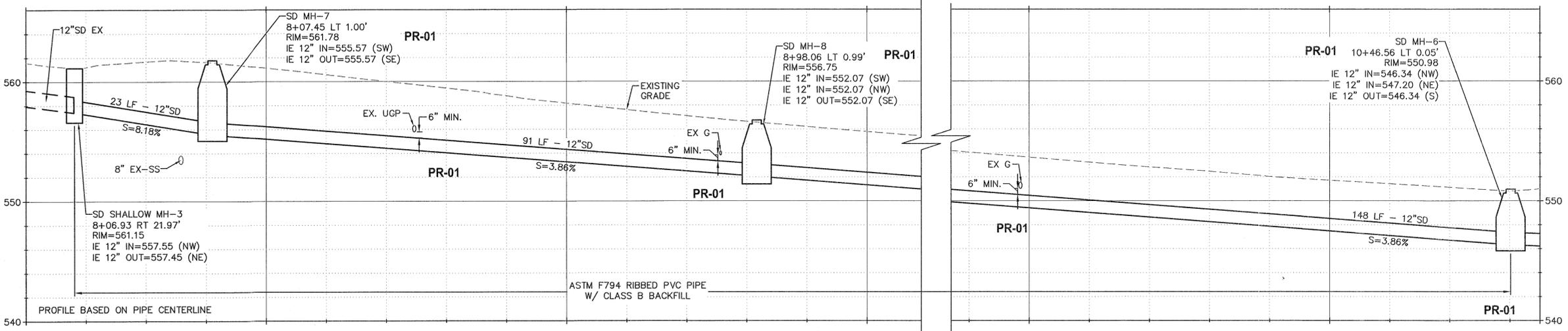




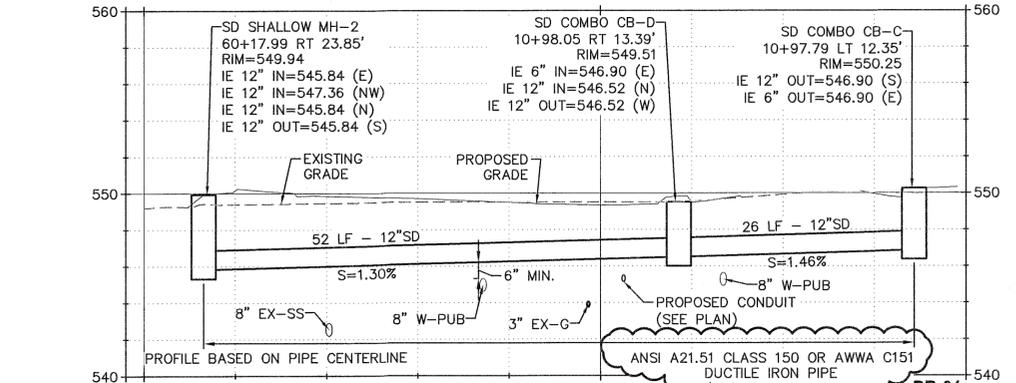




OXFORD STREET STORM UTILITY - PLAN VIEW  
SCALE: 1" = 10'



1 OXFORD STREET STORM UTILITY - PROFILE VIEW  
SCALE: HORIZ: 1" = 10'  
VERT: 1" = 5'



2 OXFORD STREET STORM UTILITY - PROFILE VIEW  
SCALE: HORIZ: 1" = 10'  
VERT: 1" = 5'

- SHEET NOTES**
- PIPE BEDDING AND BACKFILL FOR ALL UTILITIES SHALL BE DONE PER STANDARD DTL WL-200/C7.2.
  - STATION AND OFFSET INDICATE CENTER OF STRUCTURE AND ARE BASED ON OXFORD / BITTNER STREET CENTERLINE (UNLESS NOTED OTHERWISE).
  - CONTRACTOR TO VERIFY ALL UTILITY CROSSINGS PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF ANY DISCREPANCIES.
  - CONTRACTOR TO RECONNECT EXISTING ROOF DRAIN(S) TO NEW MAIN AT CITY APPROVED LOCATION(S). REFERENCE DEMOLITION PLAN.

**UTILITY LABEL LEGEND**

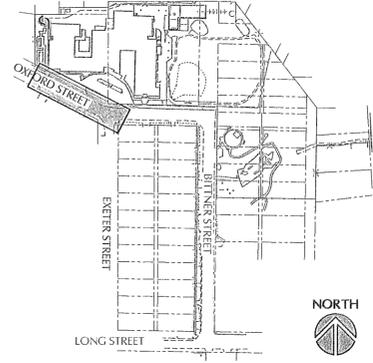
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ID NUMBER (WHERE APPLICABLE)	LOCATION (WHERE APPLICABLE)	CO	CLEANOUT
XX XX-XX	X+XX.X RT X.X'	COMBO CB	COMBINATION CURB INLET
RIM=	STRUCTURE INFO (WHERE APPLICABLE)	GI	GUTTER INLET
IE IN = XX.X		MH	MANHOLE
IE OUT = XX.X			
PIPE LABEL		UTILITY LEGEND	
UTILITY LENGTH	UTILITY SIZE	PROPOSED	EXISTING
UTILITY TYPE	SLOPE (WHERE APPLICABLE)	R.O.W. LINE	--- ---
XXLF - XX" XX		CENTERLINE	---
S=X.XXX		STORM DRAIN	---
		SANITARY SEWER	---
		WATER MAIN	---

**KEY NOTES**

- FIELD VERIFY LOCATION AND IE OF EXISTING 12" STORM LATERAL PRIOR TO CONSTRUCTION. INTERCEPT WITH SHALLOW MANHOLE.
- COORDINATE WITH NORTHWEST NATURAL GAS FOR RELOCATION OF EXISTING GAS LINE.
- STORMWATER FLOW--THROUGH PLANTER. ID AS SHOWN. SEE SHEETS C6.X SHEETS.

**UTILITY LEGEND**

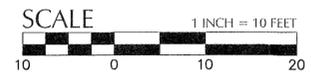
PROPOSED	EXISTING
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KEY MAP

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 Plotted: 7/5/16 at 1:29pm By: rcaudia  
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REVISION	DATE	DESCRIPTION	BY
7/5/16	ASI-02		
6/15/16	CONFORMED SET		
4/19/16	BID SET		



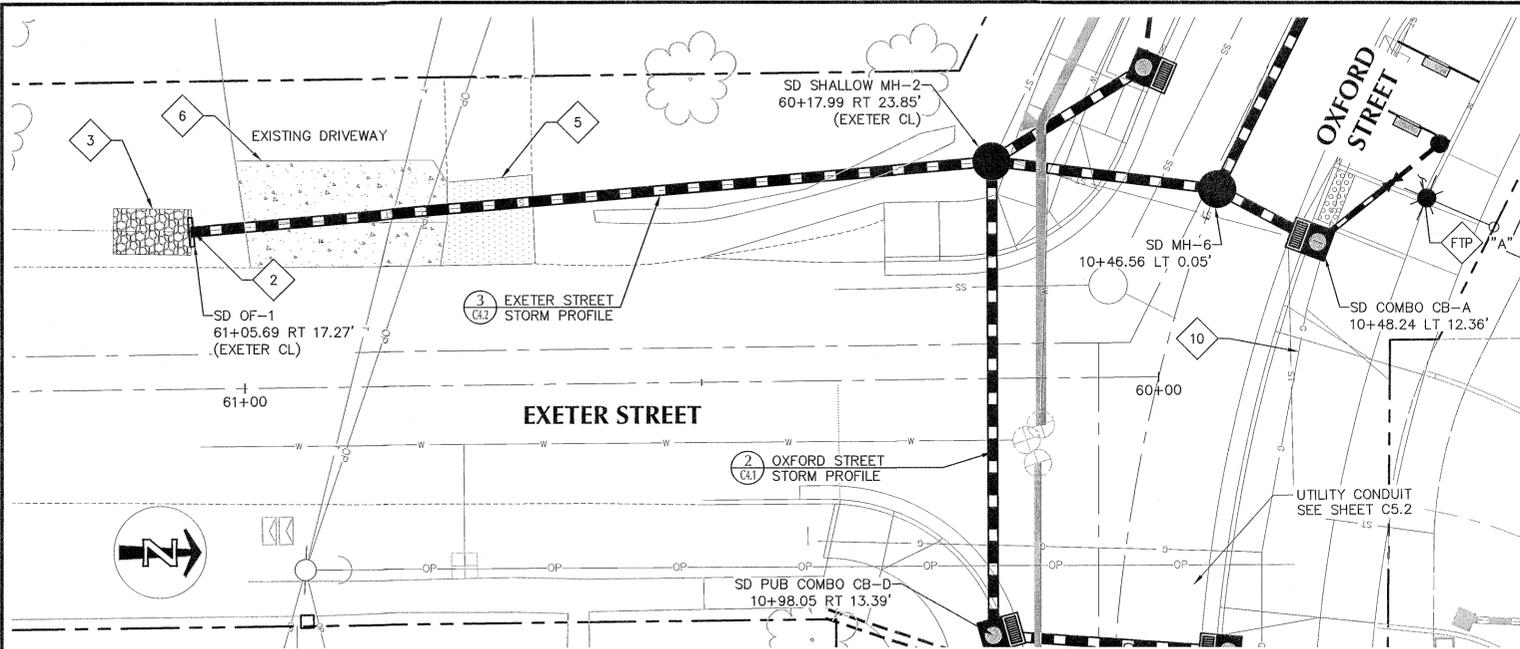
111 SW Fifth Ave., Suite 2500  
 Portland, OR 97204  
 O: 503.227.3251  
 F: 503.224.4681  
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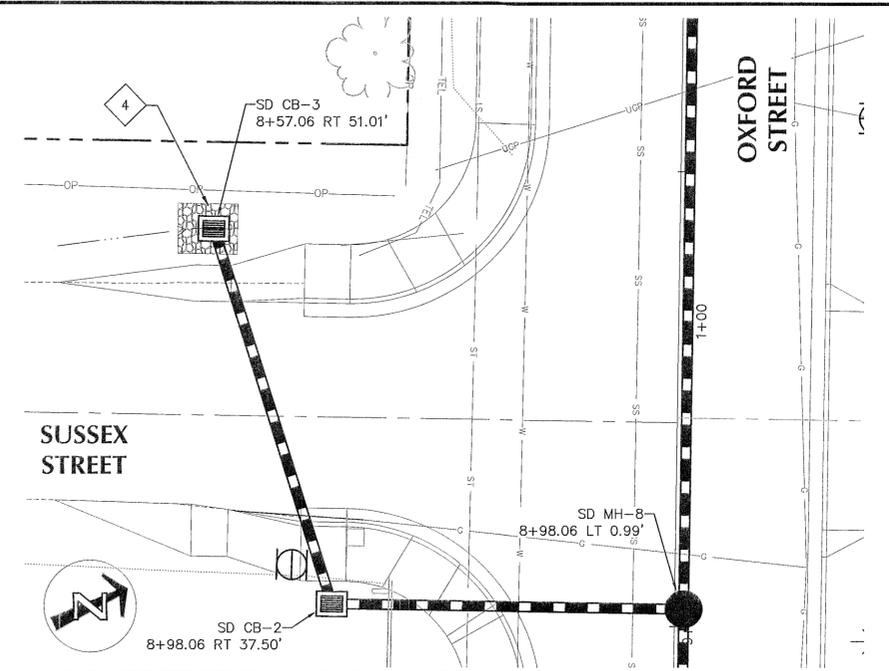
JOB No.:	315087
DESIGNED BY:	DF/TL
DRAWN BY:	RC
CHECKED BY:	MW
PLOT DATE:	7/5/16 1:29pm
PLOTTED BY:	rcaudia
DWG NAME:	PIC4.0-SD.dwg
TAB NAME:	C4.1

APPROVED FOR CONSTRUCTION BY  
 CITY OF WEST LINN  
 PUBLIC IMPROVEMENT PLANS  
 SUNSET PRIMARY SCHOOL  
 CITY OF WEST LINN, OR  
 This approval is only for general conformance with applicable codes and requirements and shall not be construed as relieving the Design professional of full responsibility for accuracy and completeness of the drawings. This plan review does not prevent the City from providing further corrections in the drawings.  
 DATE: 7/16/16 BY: [Signature]

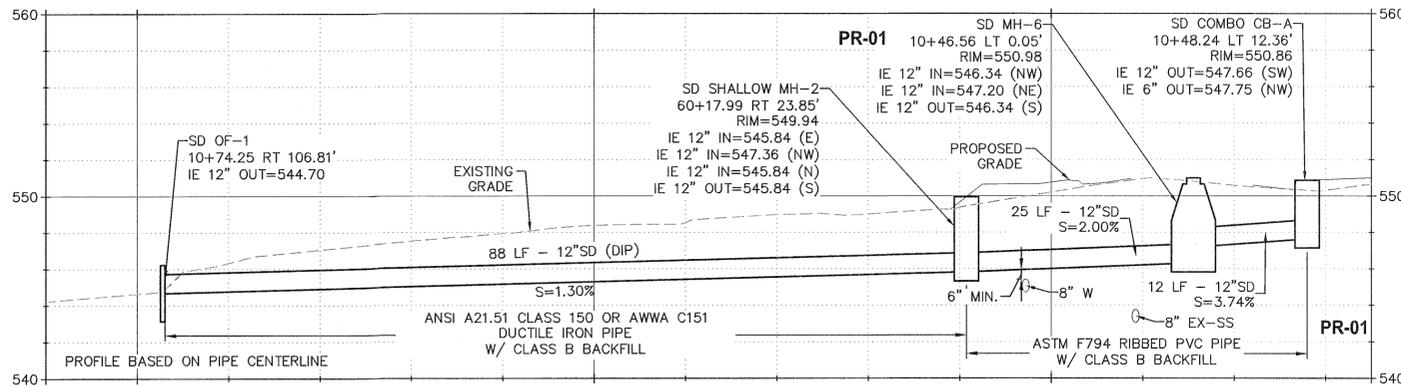
SHEET NO.  
**C4.1**  
 SHEET 21 OF 41  
 RECORD NO.  
 315087-21



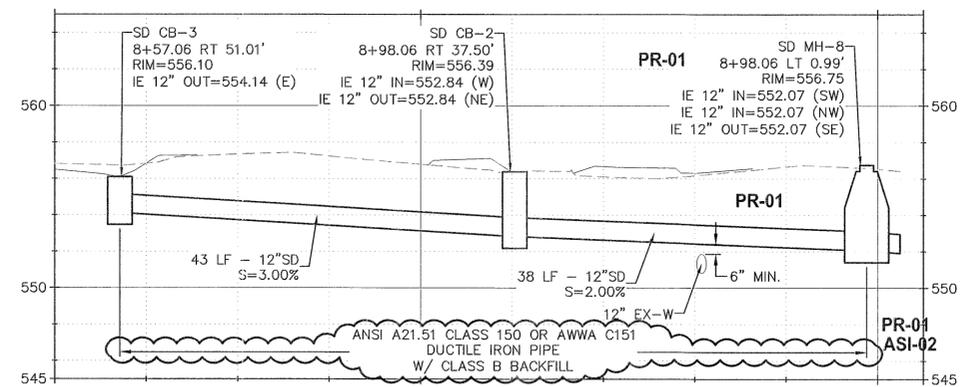
EXETER STREET STORM LINE - PLAN VIEW  
SCALE: 1" = 10'



SUSSEX STREET STORM LINE - PLAN VIEW  
SCALE: 1" = 10'



EXETER STREET STORM LINE - PROFILE VIEW  
SCALE: HORZ: 1" = 10'  
VERT: 1" = 5'



SUSSEX STREET STORM LINE - PROFILE VIEW  
SCALE: HORZ: 1" = 10'  
VERT: 1" = 5'

UTILITY LEGEND

PROPOSED	EXISTING
—	—
—	—
—	—
—	—

R.O.W. LINE  
CENTERLINE  
STORM DRAIN  
SANITARY SEWER  
WATER MAIN

EXISTING
—
—
—
—

ST  
SS  
W

KEY NOTES

- FIELD VERIFY LOCATION AND ELEVATION OF EXISTING DITCH.
- OUTFALL RIP-RAP PROTECTION PER DTL 5/C7.5.
- INSTALL 12" THICK, 3-FOOT PERIMETER, 4"-2" BALLAST AGGREGATE RIP-RAP AROUND CATCH BASIN.
- RESTORE ASPHALT CONCRETE PER DETAIL 2/C7.5.
- RESTORE CONCRETE DRIVEWAY PER C/WL DWG. NO. WL-503B/C7.1.
- COORDINATE WITH NORTHWEST NATURAL GAS FOR RELOCATION OF EXISTING GAS LINE.
- STORMWATER FLOW-THROUGH PLANTER. ID AS SHOWN. SEE SHEETS C6.X SHEETS.

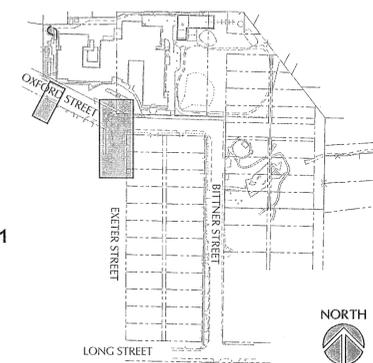
SHEET NOTES

- PIPE BEDDING AND BACKFILL FOR ALL UTILITIES SHALL BE DONE PER STANDARD DTL WL-200/C7.2.
- STATION AND OFFSET INDICATE CENTER OF STRUCTURE AND ARE BASED ON OXFORD / BITTNER STREET CENTERLINE (UNLESS NOTED OTHERWISE).
- CONTRACTOR TO VERIFY ALL UTILITY CROSSINGS PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF ANY DISCREPANCIES.
- CONTRACTOR TO RECONNECT EXISTING ROOF DRAIN(S) TO NEW MAIN AT CITY APPROVED LOCATION(S). REFERENCE DEMOLITION PLAN.

UTILITY LABEL LEGEND

STRUCTURE LABEL	STRUCTURE TYPE
XX XX-XX	UTILITY TYPE (SD=STORM DRAINAGE)
X+XX.X RT X.X'	STRUCTURE TYPE CALLOUT
IE IN = XX.X	ID NUMBER (WHERE APPLICABLE)
IE OUT = XX.X	LOCATION (WHERE APPLICABLE)
XX LF - XX" SD	PIPE LABEL
S=X.XX%	UTILITY LENGTH
	UTILITY SIZE
	UTILITY TYPE
	SLOPE (WHERE APPLICABLE)

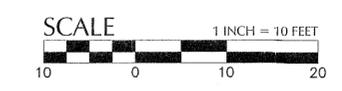
STRUCTURE TYPE	DESCRIPTION	DETAIL REF.
CB	CATCH BASIN TYPE G1	WL-602A
CO	CLEANOUT	WL-611
COMBO CB	COMBINATION CURB INLET	WL-601
GI	GUTTER INLET	WL-600
MH	MANHOLE	WL-207
OF	OUTFALL	WL-614



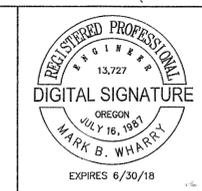
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File: N:\V\2016\315087-Sunset-Primary-School\CAD\PLANT\PUBLIC\PIC4.0-SD.dwg TAB: C4.2  
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 User: drc  
 Plotter: HP DesignJet 5000-34  
 Plot Scale: 1/8"=1'-0"  
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 Plot User: drc  
 Plot Job: 315087

REVISION	DATE	DESCRIPTION	BY
	7/5/16	ASI-02	
	6/15/16	CONFORMED SET	
	4/19/16	BID SET	



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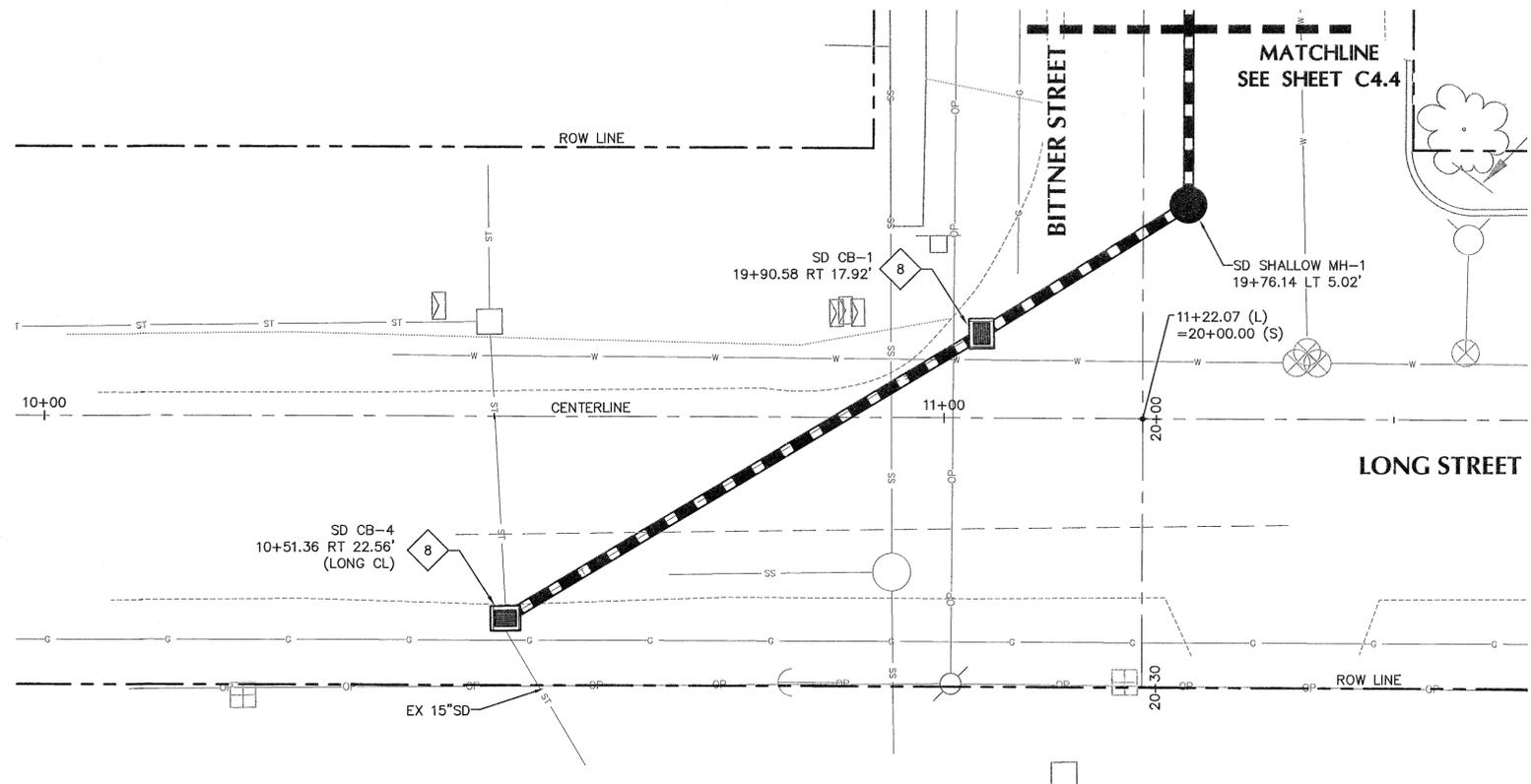


JOB No.:	315087
DESIGNED BY:	DF/TL
DRAWN BY:	RC
CHECKED BY:	MW
PLOT DATE:	7/15/16 1:29pm
PLOTTED BY:	rcdua
DWG NAME:	PIC4.0-SD.dwg
TAB NAME:	C4.2

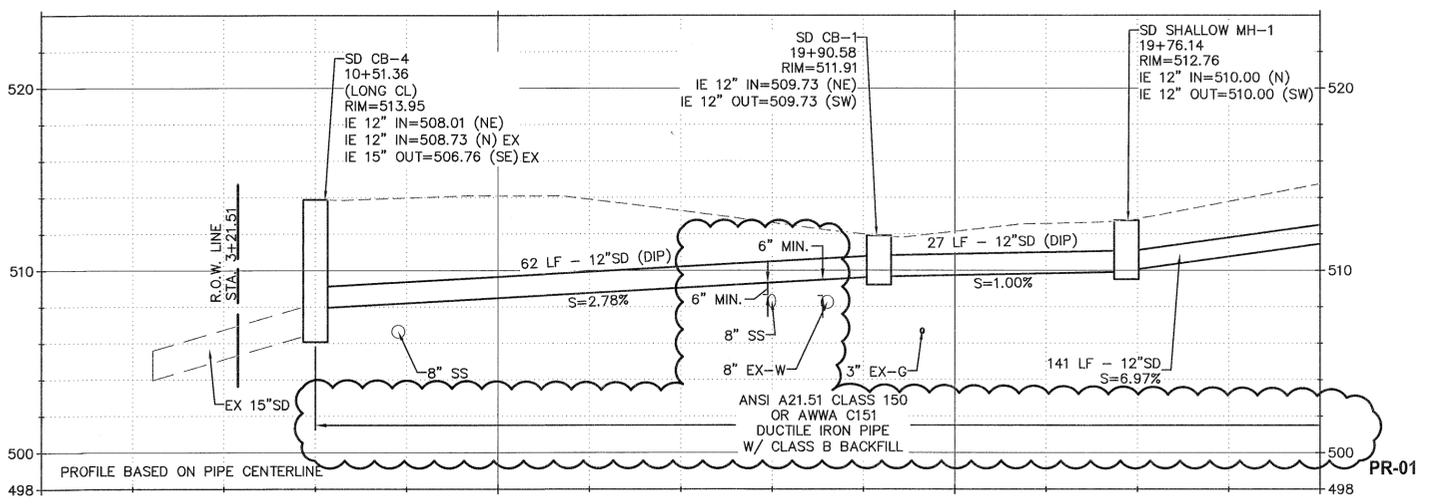
APPROVED FOR CONSTRUCTION BY  
CITY OF WEST LINN  
This approval is only for general conformance with applicable codes and requirements and does not constitute a warranty of accuracy or completeness of the drawings. This plan review does not prevent the City Engineer from making corrections to the drawings.  
Approved by: *[Signature]*

SHEET NO. **C4.2**  
SHEET 22 OF 41  
RECORD NO. 315087-22

File: N:\c:\p\2015\315087-sunset-primary-school\CAD\PILOT\PUBLIC\PIC4.0-SD.dwg TAB: C4.3  
 Plotted: 6/10/16 at 6:07pm By: rcaudio  
 22x34 XREFs: 5087-dw-xtb-22x34 5087-xsv 5087-pw-xst 5087-pw-xst 5087-pw-xst 5087-xut 5087-xut 5087-xut



**LONG STREET STORM UTILITY - PLAN VIEW**  
SCALE: 1" = 10'



**LONG STREET STORM UTILITY - PROFILE VIEW**  
SCALE: HORIZ: 1" = 10'  
VERT: 1" = 5'

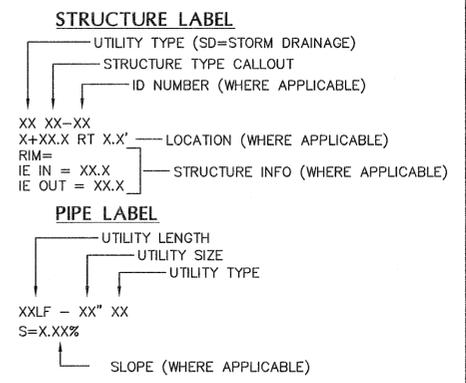
**KEY NOTES**

- 8 REPLACE EXISTING CATCH BASIN WITH TYPE G1 INLET PER STANDARD DTL. WL-602A/C7.4.

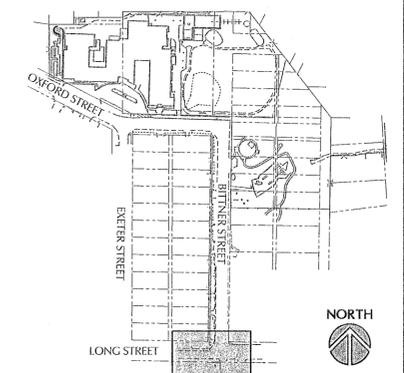
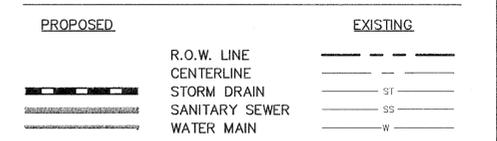
**SHEET NOTES**

1. PIPE BEDDING AND BACKFILL FOR ALL UTILITIES SHALL BE DONE PER STANDARD DTL WL-200/C7.2.
2. STATION AND OFFSET INDICATE CENTER OF STRUCTURE AND ARE BASED ON OXFORD / BITTNER STREET CENTERLINE (UNLESS NOTED OTHERWISE).
3. CONTRACTOR TO VERIFY ALL UTILITY CROSSINGS PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF ANY DISCREPANCIES.
4. CONTRACTOR TO RECONNECT EXISTING ROOF DRAIN(S) TO NEW MAIN AT CITY APPROVED LOCATION(S). REFERENCE DEMOLITION PLAN.

**UTILITY LABEL LEGEND**

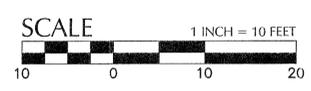


**UTILITY LEGEND**

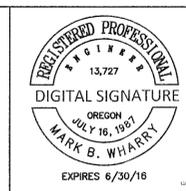


**KEY MAP**

REVISION	DATE	DESCRIPTION	BY
6/15/16	CONFORMED SET		
4/19/16	BID SET		



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JOB No.:	315087
DESIGNED BY:	DF/TL
DRAWN BY:	RC
CHECKED BY:	MW
PLOT DATE:	6/10/16 6:07pm
PLOTTED BY:	rcaudio
DWG NAME:	PIC4.0-SD.dwg
TAB NAME:	C4.3

APPROVED FOR CONSTRUCTION BY  
 CITY OF WEST LINN  
 PUBLIC IMPROVEMENT PLANS  
 SUNSET PRIMARY SCHOOL  
 CITY OF WEST LINN, OR  
 LONG STREET - STORM DRAINAGE PLAN  
 2351 OXFORD ST, WEST LINN, OR 97068

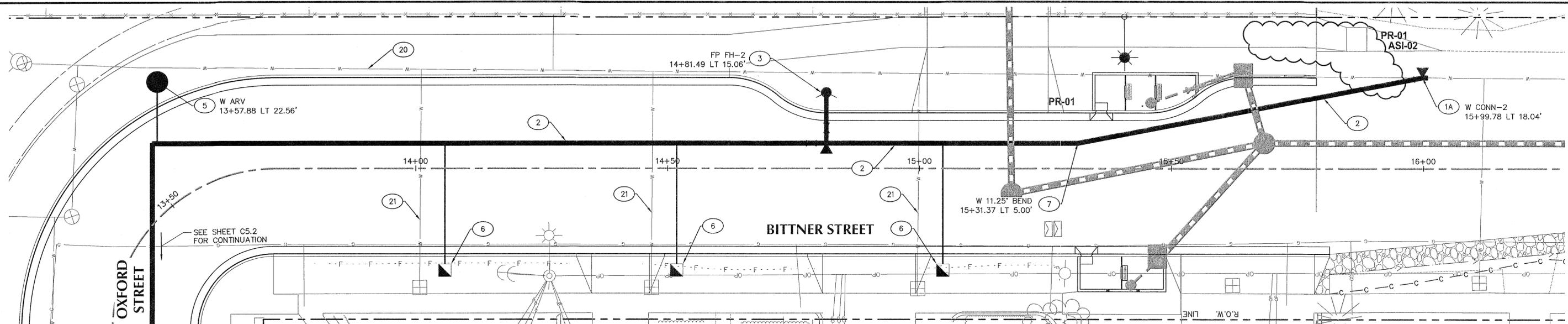
SHEET NO.  
**C4.3**  
 SHEET 23 OF 41  
 RECORD NO.  
 315087-23



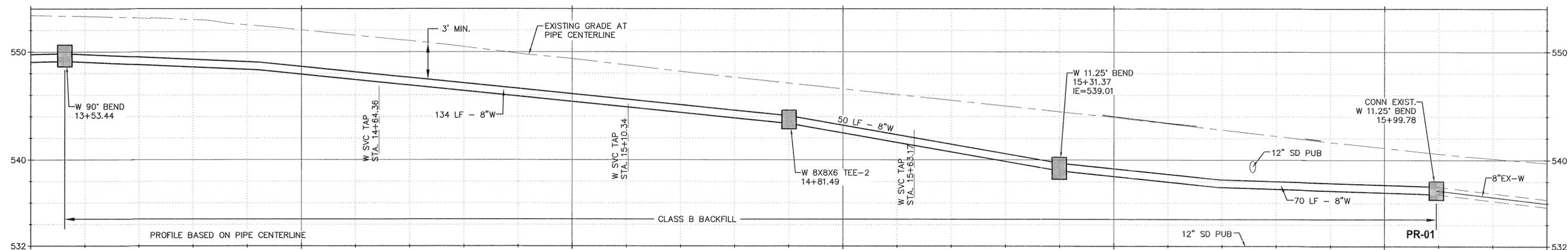








**BITTNER STREET - WATER LINE - PLAN VIEW**  
SCALE: 1" = 10'

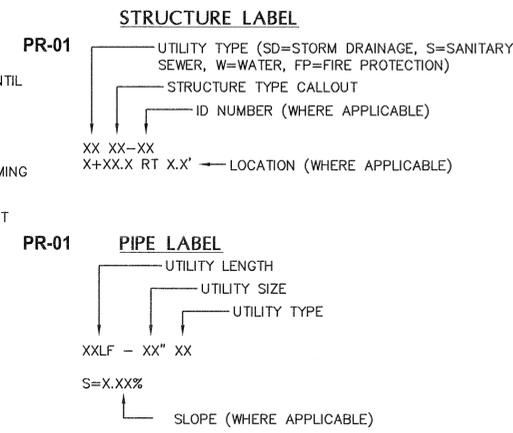


**BITTNER STREET - WATER LINE - PROFILE VIEW**  
SCALE: HORIZ: 1" = 10'  
VERT: 1" = 5'

**(X) WATER LINE KEY NOTES**

- 1A CONNECT TO EXISTING 8-INCH WATER PIPE WITH 11.25' BEND AND 8X6 REDUCER. CONTRACTOR TO INSTALL TRANSITION COUPLING AS REQUIRED BASED ON EXISTING PIPE MATERIAL.
- 2 INSTALL 8-INCH CLASS 52 DUCTILE IRON WATER PIPE.
- 3 INSTALL FIRE HYDRANT ASSEMBLY WITH 10 LF OF 6-INCH WATER PIPE AND VALVE PER STANDARD DTL. WL-401/C7.3. INSTALL STANDARD VALVE BOX AND COVER PER STANDARD DTL. WL-411/C7.3
- 5 INSTALL STANDARD AIR RELEASE VALVE UNIT. CONNECT TO HIGH POINT IN WATER MAIN. INSTALL PER STANDARD DTL. WL-405/C7.3. STATION AND OFFSET INDICATE CENTER OF MANHOLE CONE SECTION.
- 6 INSTALL WATER SERVICE LINE, TERMINATE 7-INCHES BEHIND BACK OF CURB. REFERENCE STANDARD DTL. WL-402/C7.4. COORDINATE WITH CITY OF WEST LINN ON INSTALLATION OF NEW WATER METER AND TIE OVER TO RESIDENTIAL LINE.
- 7 INSTALL 8-INCH MJ 11.25° HORIZONTAL BEND WITH MEGALUGS. RESTRAIN A MINIMUM 10- FEET EACH DIRECTION FROM FITTING USING FIELD LOK GASKET OR APPROVED RESTRAINT SYSTEM.
- 20 EXISTING 6-INCH CI WATER MAIN TO REMAIN OPERATIONAL UNTIL NEW LINE IS INSTALLED AND APPROVED BY CITY INSPECTOR. EXISTING WATER LINE TO REMOVED WHERE NECESSARY OR ABANDONED IN PLACE.
- 21 EXISTING WATER METERS TO REMAIN OPERATIONAL UNTIL NEW SERVICE LINES AND METERS ARE INSTALLED. COORDINATE TIMING OF SERVICE LINE SWITCH WITH CITY OF WEST LINN.
- 22 INSTALL 45° WYE TEE FITTING WITH BLIND FLANGE AND THRUST BLOCK.

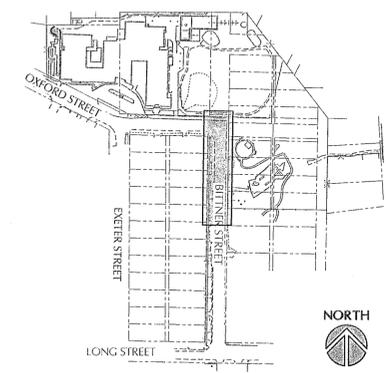
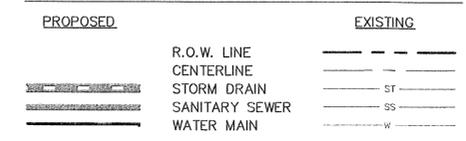
**UTILITY LABEL LEGEND**



**SHEET NOTES**

- 1. PIPE BEDDING AND BACKFILL FOR ALL UTILITIES SHALL BE DONE PER STANDARD DTL WL-200/C7.2.
- 2. STATION AND OFFSET INDICATE CENTER OF STRUCTURE AND ARE BASE ON OXFORD / BITTNER STREET CENTERLINE (UNLESS NOTED OTHERWISE).
- 3. INSTALL TRUST BLOCK ON FIRE AND WATER LINES PER STANDARD DTL WL-407 & WL-406/C7.3.

**UTILITY LEGEND**



**KEY MAP**

File: N:\p\2015\315087-Sunset-Primary-School\CAD\PLANT\PUBLIC\PIC5.0-UTILITY.dwg TAB: C5.3  
 Plotted: 7/5/16 at 1:33pm By: rcoadu  
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REVISION	DATE	DESCRIPTION	BY
	7/5/16	ASI-02	
	6/15/16	CONFORMED SET	
	4/19/16	BID SET	

PR-01

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**REGISTERED PROFESSIONAL ENGINEER**  
 13,727  
**DIGITAL SIGNATURE**  
 JULY 16, 1987  
 OREGON  
 MARK B. WHARTY  
 EXPIRES 6/30/18

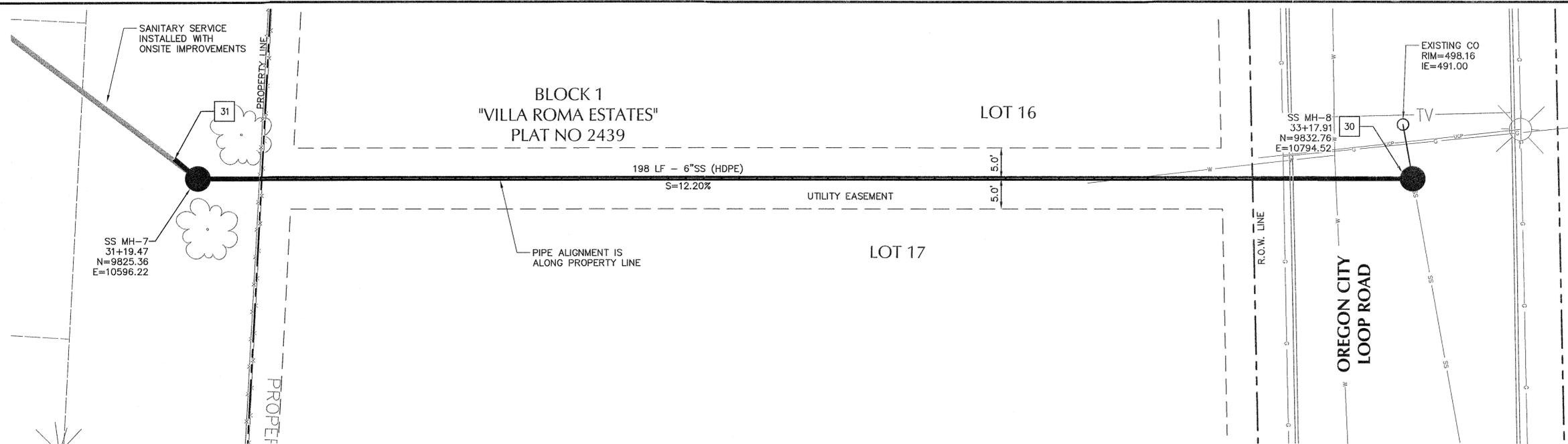
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DESIGNED BY:	DF/TL
DRAWN BY:	RC
CHECKED BY:	MW
PLOT DATE:	7/5/16 1:33pm
PLOTTED BY:	roadu
DWG NAME:	PIC5.0-UTILITY.dwg
TAB NAME:	C5.3

**APPROVED FOR CONSTRUCTION BY**  
 CITY OF WEST LINN  
 2351 OXFORD ST, WEST LINN, OR 97058  
 This approval is only for general conformance with applicable codes and requirements and shall not be construed as relieving the Design Engineer of full responsibility for accuracy and completeness of the drawings. This plan review is not a guarantee of the City of West Linn's compliance with applicable codes.

**SUNSET PRIMARY SCHOOL**  
 CITY OF WEST LINN, OR

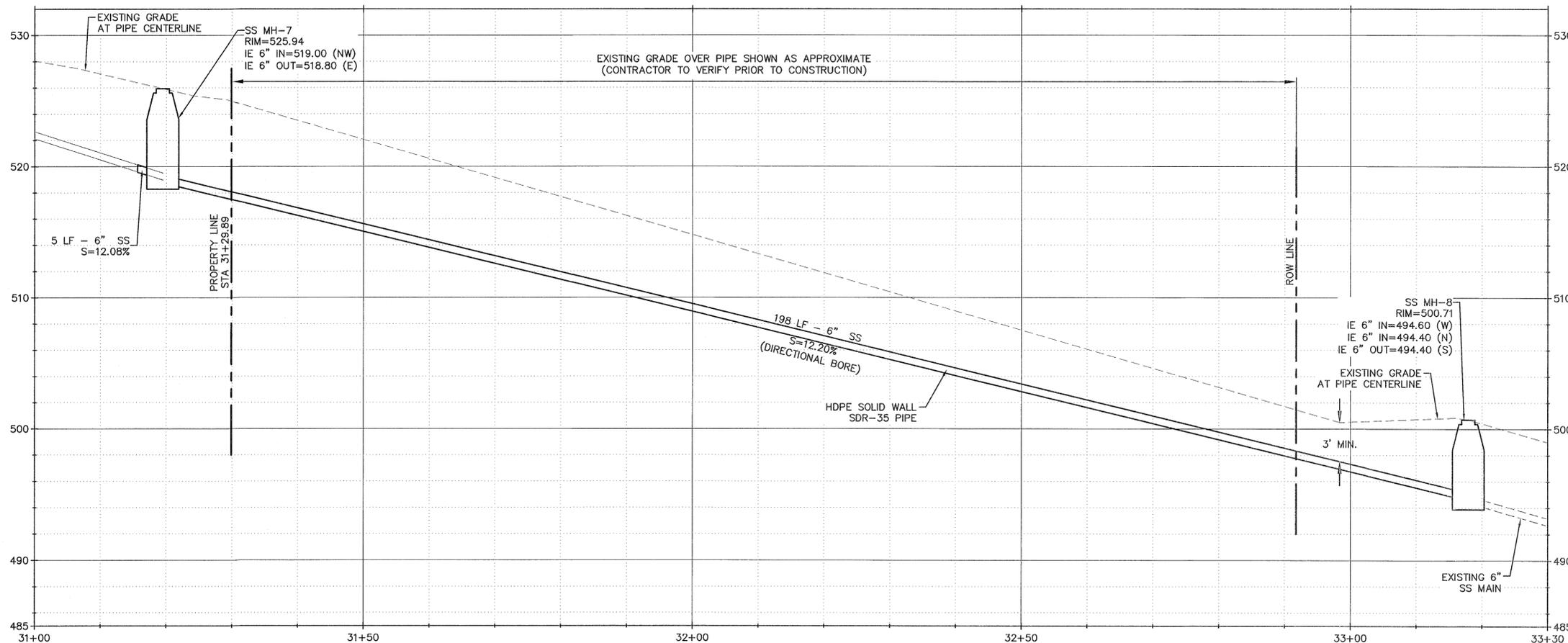
**BITTNER STREET - WATER LINE**  
 July 16, 2016

**C5.3**  
 SHEET 28 OF 41  
 RECORD NO. 315087-28



OREGON CITY LOOP - SANITARY LATERAL - PLAN AND PROFILE - PLAN VIEW

SCALE: 1" = 10'



OREGON CITY LOOP - SANITARY LATERAL - PLAN AND PROFILE - PROFILE VIEW

SCALE: HORIZ: 1" = 10'  
VERT: 1" = 5'

SHEET NOTES

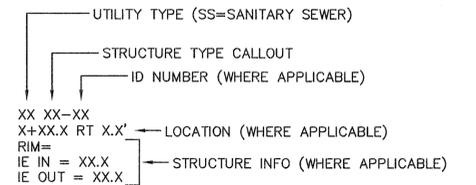
- PIPE BEDDING AND BACKFILL FOR ALL UTILITIES SHALL BE DONE PER STANDARD DTL WL-200/C7.2.
- STATION AND OFFSET INDICATE CENTER OF STRUCTURE AND ARE BASE ON OXFORD / BITTNER STREET CENTERLINE (UNLESS NOTED OTHERWISE).

SEWER LINE KEY NOTES

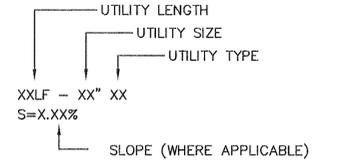
- PROVIDE NEW MANHOLE AT EXISTING SEWER LINE. CONNECT NEW SERVICE LATERAL TO EXISTING SANITARY MAIN PER WL-210A, WL-210B. FIELD VERIFY LOCATION AND ELEVATION.
- INSTALL MECHANICAL PLUG AT END OF PIPE AND MARK WITH 2"x4" WOOD STAKE. REFER TO ONSITE PLANS FOR CONTINUATION.

UTILITY LABEL LEGEND

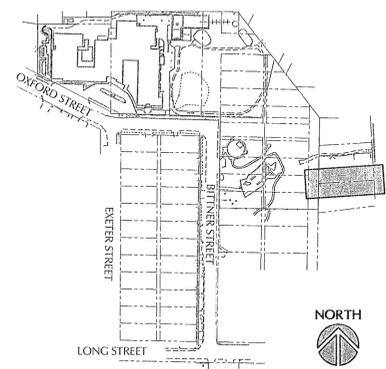
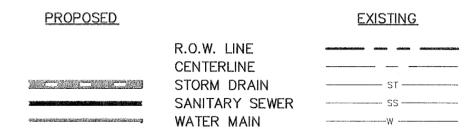
STRUCTURE LABEL



PIPE LABEL



UTILITY LEGEND



KEY MAP

File: N:\c\p\2016\315087-sunset-primary-school\CAD\PLANT\UTILTY.dwg TAB: C5.4  
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22834 XREFS: 5087-pw-xb-22834 5087-pw-xst 5087-pw-xst 5087-pw-xst 5087-pw-xst 5087-xsd XLIGHT

REVISION	DATE	DESCRIPTION	BY
	6/15/16	CONFORMED SET	
	4/19/16	BID SET	



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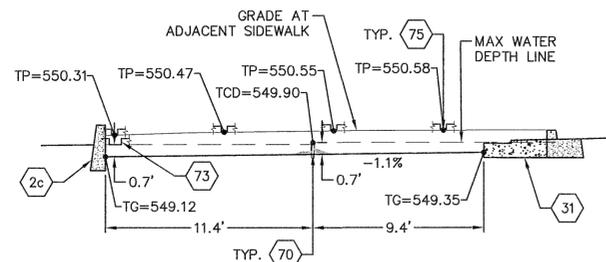
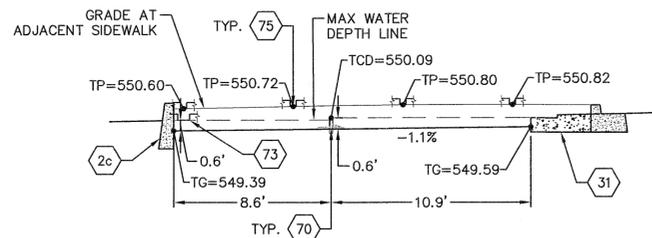
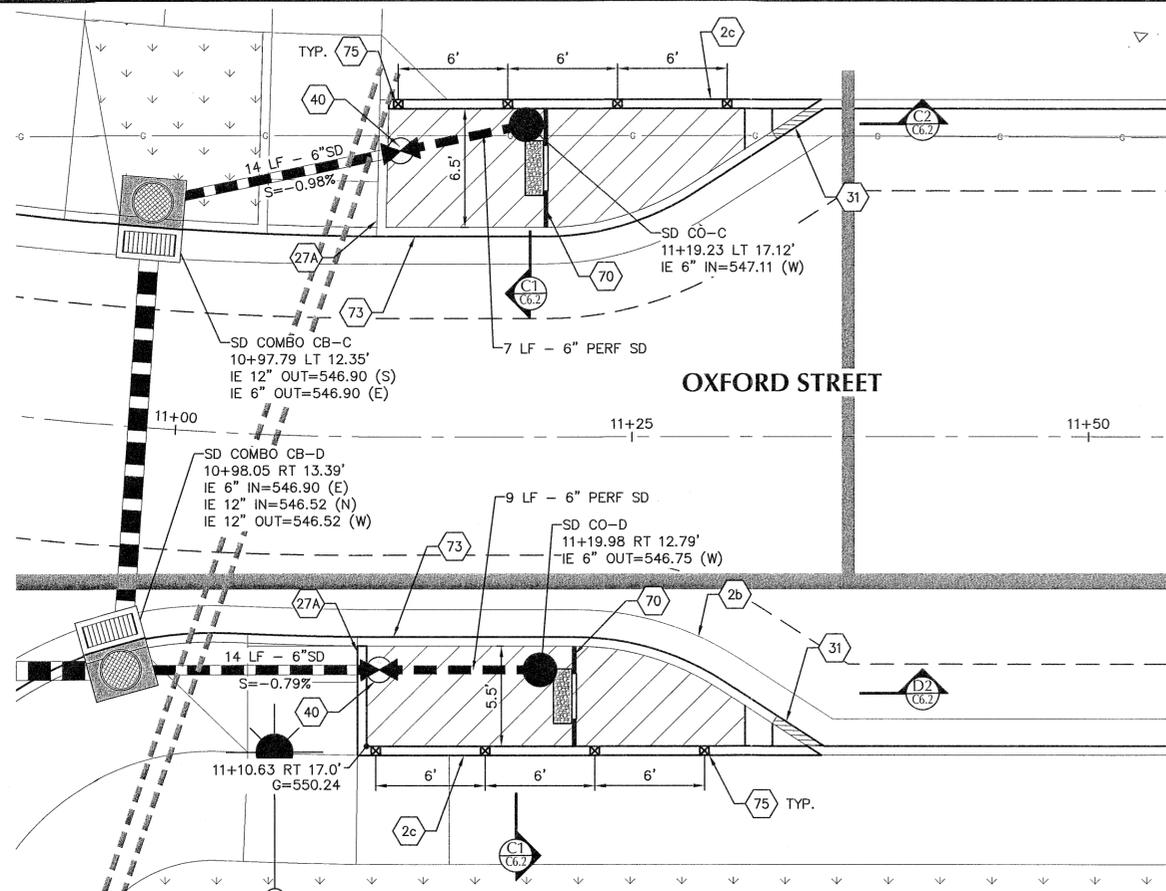


JOB No.:	315087
DESIGNED BY:	DF/TL
DRAWN BY:	RC
CHECKED BY:	MW
PLOT DATE:	6/10/16 6:11pm
PLOTTED BY:	rcaudaa
DWG NAME:	PIC5.0-UTILITY.dwg
TAB NAME:	C5.4

2351 OXFORD ST, WEST LINN, OR 97068  
APPROVED FOR CONSTRUCTION BY  
CITY OF WEST LINN  
PUBLIC IMPROVEMENT PLAN  
SUNSET PRIMARY SCHOOL  
CITY OF WEST LINN, OR  
This approval is only for general conformance with the design concept and general compliance with applicable codes and requirements and does not constitute as relieving the Designer of full responsibility for accuracy and completeness of the drawings. This plan review is not a City requirement. Code corrections in the future shall be the responsibility of the Designer.  
Mark B. Wharry

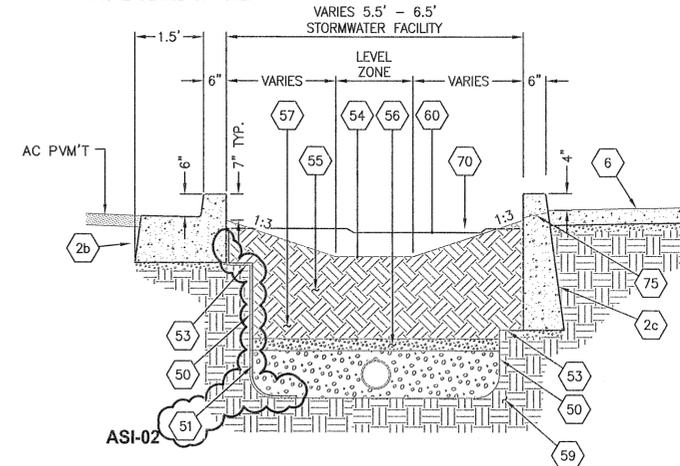
SHEET NO.  
**C5.4**  
SHEET 29 OF 41  
RECORD NO.  
315087-29





NOTE:

1. DETAIL IS BASED ON CITY OF PORTLAND BUREAU OF ENVIRONMENTAL SERVICES TYPICAL DETAIL SW-312.



STORMWATER FACILITY NOTES

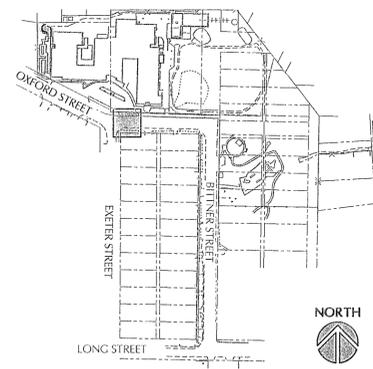
1. TOPSOIL MATERIAL SHALL BE ANY BLEND OF LOAMY SOIL, SAND, AND COMPOST THAT IS 30-40% COMPOST (BY VOLUME) AND MEETS THE OTHER CRITERIA IN THE CITY OF PORTLAND STANDARD CONSTRUCTION SPECIFICATIONS SECTION 01040.14(D) - STORMWATER FACILITY TOPSOIL.
2. INSTALL TOPSOIL IN A MANNER THAT ENSURES ADEQUATE INFILTRATION. PLACE IN TWO EQUAL LIFTS. (IF NO DRAIN ROCK IS SPECIFIED, ADD THE FOLLOWING NOTE: ROTO-TILL THE FIRST LIFT INTO NATIVE SOIL.) LIFTS SHOULD NOT BE COMPACTED, BUT RATHER PLACED IN A MANNER TO REDUCE EXCESSIVE EROSION OR SETTLEMENT. LIFTS MAY BE LIGHTLY WATERED TO ENCOURAGE NATURAL COMPACTION OR, IF NECESSARY ROLLED WITH A WATER-FILLED LANDSCAPE ROLLER. SLIGHTLY OVERFILL THE FACILITY ABOVE PROPOSED FINISHED GRADE TO ACCOMMODATE NATURAL SETTLEMENT.
3. CONTRACTOR TO PLACE EROSION CONTROL FABRIC OVER STORMWATER FACILITY AND SURROUNDING AREA TO PREVENT EROSION DURING WET WEATHER CONDITIONS. FABRIC SHALL BE 100% BIODEGRADABLE COIR FABRIC (NORTH AMERICAN C125BN OR APPROVED EQUAL).

SHEET NOTES

1. SEE CITY OF PORTLAND STANDARD CONSTRUCTION SPECIFICATIONS SECTION 00415 - VEGETATED STORMWATER FACILITIES.
2. LONGITUDINAL SLOPE OF PLANTER MATCHES GUTTER SLOPE.
3. UTILITY LINES MAY NEED TO BE SLEEVED OR RELOCATED.
4. COORDINATE WITH CITY ENGINEER ON INSTALLATION REQUIREMENTS FOR STORMWATER PLANTERS.
5. SEE STORMWATER FACILITY NOTES ON C6.2 FOR PLANTER TOPSOIL INFORMATION.

KEY NOTES

- 2b THICKENED CURB AND GUTTER PER STANDARD DTL 2/C6.5
- 2c PLANTER WALL, SEE DTL 4/C6.4.
- 6 CONCRETE SIDEWALK PER CWL DWG. NO. WL-508/C7.1.
- 27A BEVEL TOP OF WALL TO MATCH TOP OF CURB ELEVATION.
- 31 GUTTER INLET PER DTL 2/C6.4.
- 32 SCUPPER DRAIN PER DTL 3/C6.4.
- 40 INSTALL BACKWATER VALVE PER DTL 4/C6.5.
- 50 EXCAVATION LINE.
- 51 PVC LINER ALONG STREET SIDE OF PLANTER. BATTON LINER TO CURB.
- 53 6" BENCH FOR CONSTRUCTION.
- 54 FINISH GRADE OF TOPSOIL. SEE SECTIONS FOR ELEV.
- 55 18" MIN. STORMWATER FACILITY TOPSOIL. FIRST LIFT OF TOPSOIL SHALL BE BLENDED WITH NATIVE SUBGRADE SOIL. SEE STORMWATER FACILITY NOTES ON C6.2.
- 56 3" OF 3/4" - #4 OPEN GRADED AGGR.
- 57 12" OF 1 1/2" - 3/4" OPEN GRADED AGGR.
- 59 SCARIFY THE NATIVE SOIL FOLLOWING THE INITIAL EXCAVATION AND BEFORE INSTALLING ROCK OR TOPSOIL.
- 60 TOP OF CHECK DAM (TCD) ELEVATION REFERENCE - SEE PROFILE.
- 70 WOOD CHECK DAM. SEE DTL 1/C6.5.
- 73 CURB OUTLET NOTCH. SEE DTL 1/C6.4.
- 75 DRAINAGE NOTCH. INSTALL WHERE SHOWN. AS SHOWN IN DTL 4/C6.4.



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 Plotted: 7/6/16 at 2:09pm By: rcaudac  
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REVISION	DATE	DESCRIPTION	BY
7/5/16	ASI-02		
6/15/16	CONFORMED SET		
4/19/16	BID SET		



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JOB No.:	315087
DESIGNED BY:	DF/TL
DRAWN BY:	RC
CHECKED BY:	MW
PLOT DATE:	7/6/16 2:09pm
PLOTTED BY:	rcaudac
DWG NAME:	PIC6.0-DTLS.dwg
TAB NAME:	C6.2

APPROVED FOR CONSTRUCTION BY  
CITY OF WEST LINN  
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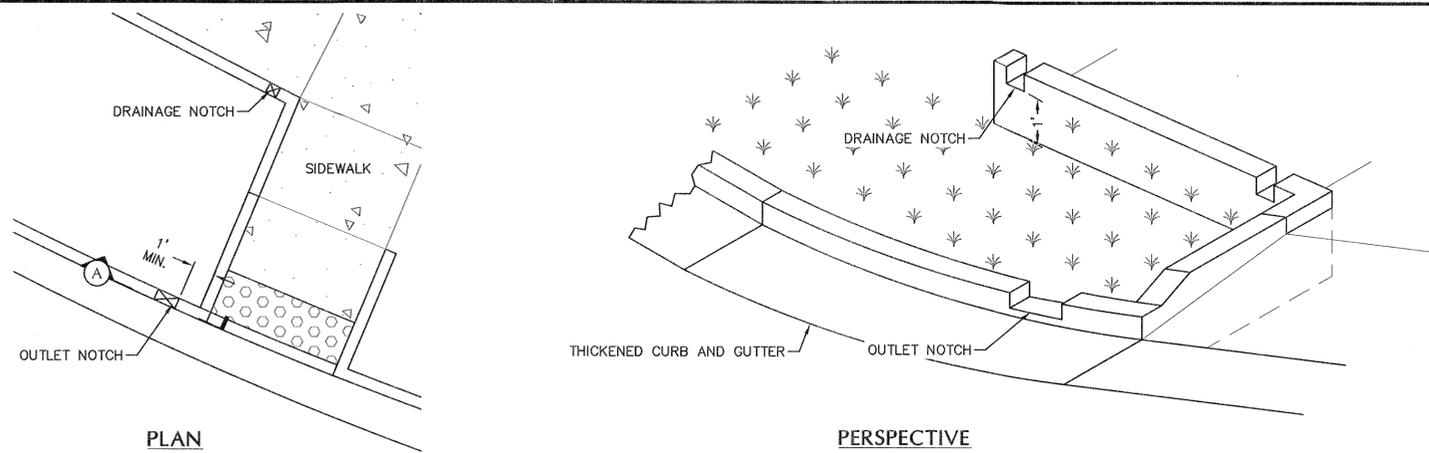
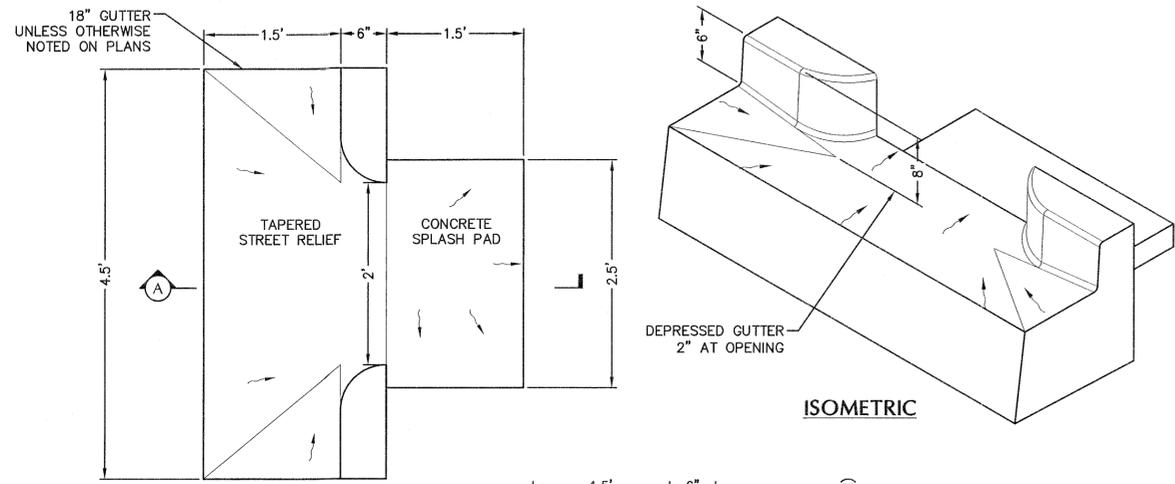
2351 OXFORD ST, WEST LINN, OR 97068

PUBLIC IMPROVEMENT PLANS design concept and general compliance with applicable codes and requirements and does not constitute a warranty of full responsibility for accuracy and completeness of the drawings. This plan review is not intended to prevent the City of West Linn from making corrections in the drawings.

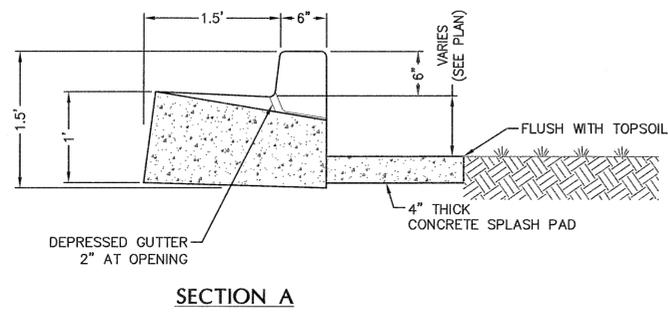
OXFORD STREET STORMWATER PLANTERS

SHEET NO. 31 OF 41  
RECORD NO. 315087-31  
C6.2



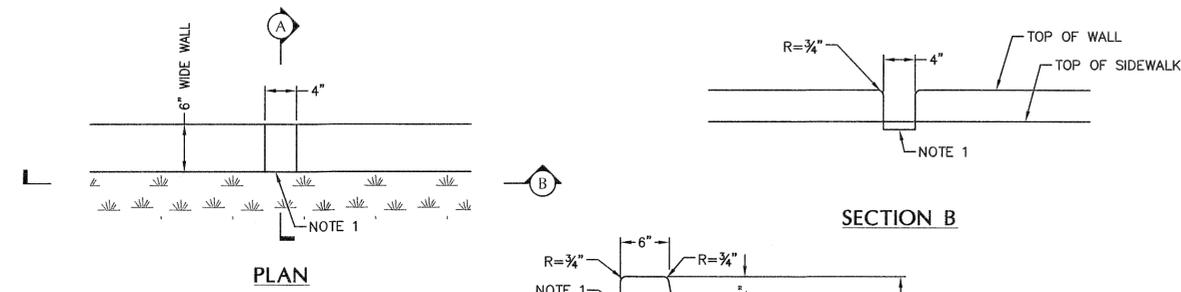


**NOTES:**  
 1. DETAIL IS BASED ON CITY OF PORTLAND BUREAU OF ENVIRONMENTAL SERVICES TYPICAL DETAIL SW-331.  
 PR-01

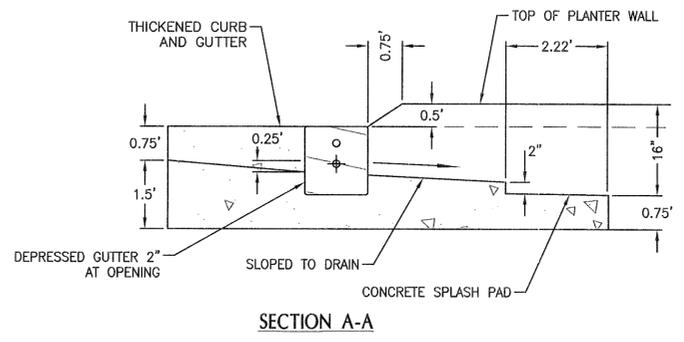
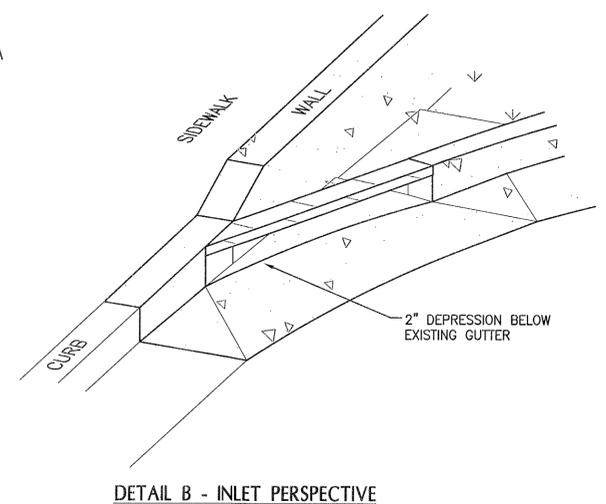
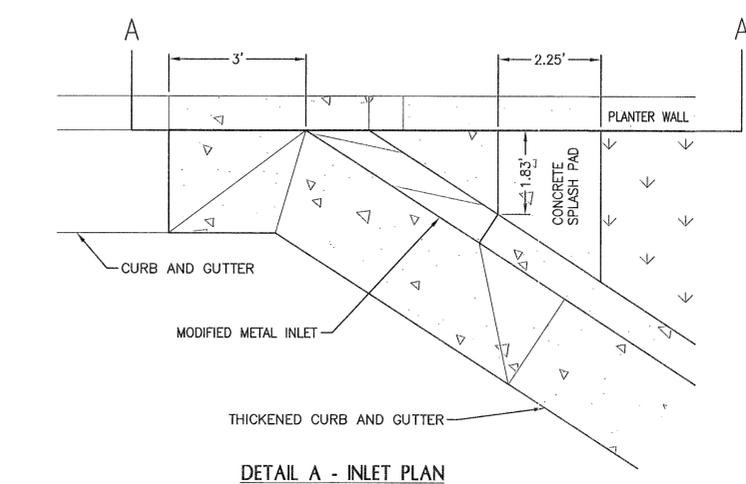
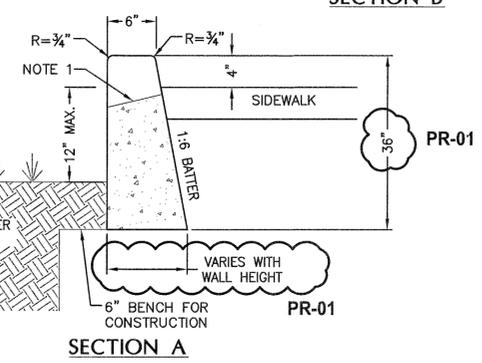


**1 CURB OUTLET NOTCH**  
 SCALE: NTS

**3 SCUPPER DRAIN**  
 SCALE: NTS



**NOTES:**  
 1. DRAINAGE NOTCH TO BE 1" LOWER THAN SIDEWALK, SLOPED TO FACILITY. INSTALL AT 6" ON CENTER, SEE PLAN FOR LOCATIONS.  
 2. FINISH ALL EXPOSED CONCRETE SURFACES.  
 3. DETAIL IS BASED ON CITY OF PORTLAND BUREAU OF ENVIRONMENTAL SERVICES TYPICAL DETAIL SW-313. ALSO REFERENCE DETAIL SW-322.  
 PR-01



**NOTES:**  
 1. DETAIL IS BASED ON CITY OF PORTLAND BUREAU OF ENVIRONMENTAL SERVICES TYPICAL DETAIL SW-333.  
 PR-01

**4 PLANTER WALL (WITH DRAINAGE NOTCH)**  
 SCALE: NTS

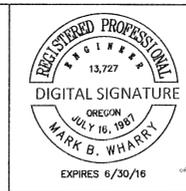
**2 GUTTER INLET**  
 SCALE: NTS

File: N:\c:\p\2015\315087-sunset-primary-school\CAD\PLANT\PUBLIC\PIC6.0-DTLS.dwg TAB: C6.4  
 Plotted: 6/10/16 at 6:14pm By: rcaud  
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REVISION	DATE	DESCRIPTION	BY
	6/15/16	CONFORMED SET	
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JOB No.:	315087
DESIGNED BY:	DF/TL
DRAWN BY:	RC
CHECKED BY:	MW
PLOT DATE:	6/10/16 6:14pm
PLOTTED BY:	rcaud
DWG NAME:	PIC6.0-DTLS.dwg
TAB NAME:	C6.4

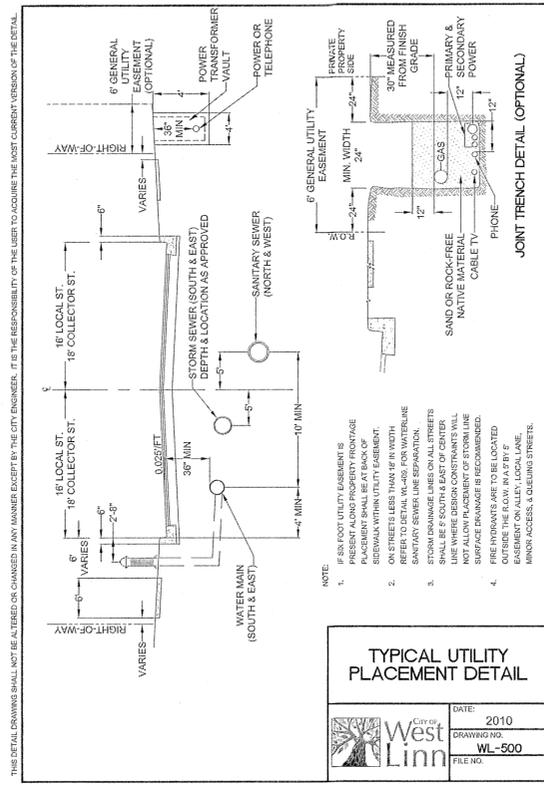
APPROVED FOR CONSTRUCTION BY  
 CITY OF WEST LINN  
 2351 OXFORD ST, WEST LINN, OR 97068  
 This approval is only for general conformance with applicable codes and requirements and shall not be construed as relieving the Designer of full responsibility for accuracy and completeness of the drawings. This plan review does not prevent the City Engineer from making code corrections in the drawings.  
 Approved by: *[Signature]*

C6.4 - STORMWATER PLANTER WALL DETAILS

SHEET NO. **C6.4**  
 SHEET 33 OF 41  
 RECORD NO. 315087-33

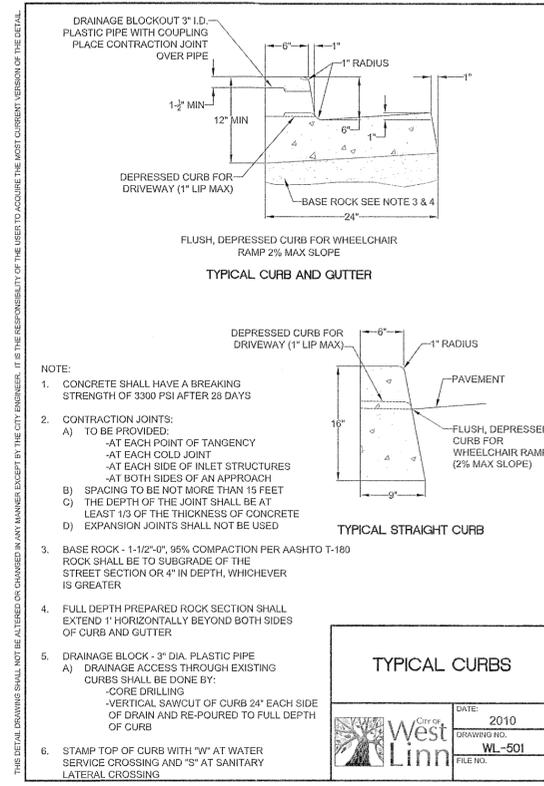


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 Plotted: 6/10/16 at 6:15pm by: rcdoua  
 XREF: 5007-pw-10-22A-4 5007-pw-10-5087-ASV



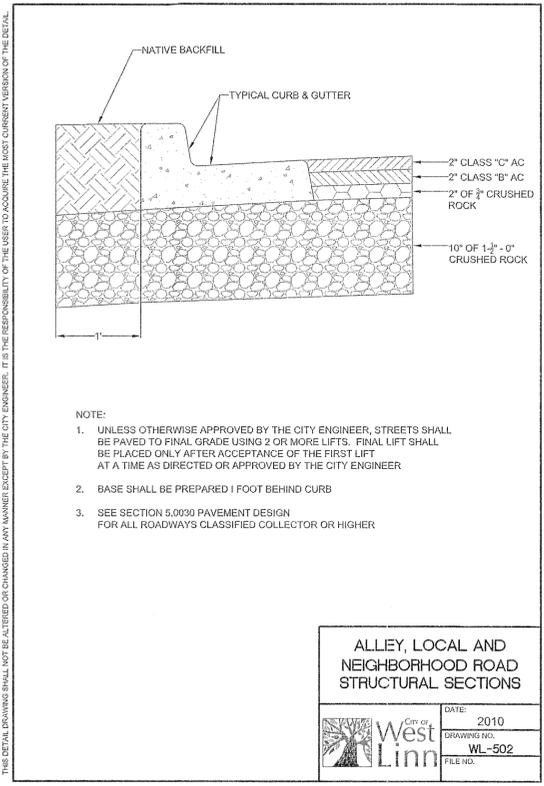
**TYPICAL UTILITY PLACEMENT DETAIL**

DATE: 2010  
 DRAWING NO.: WL-500  
 FILE NO.:



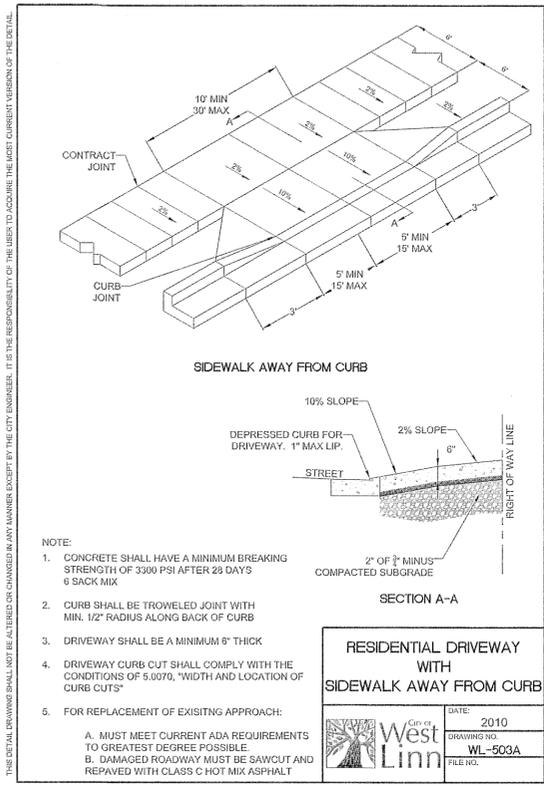
**TYPICAL CURBS**

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



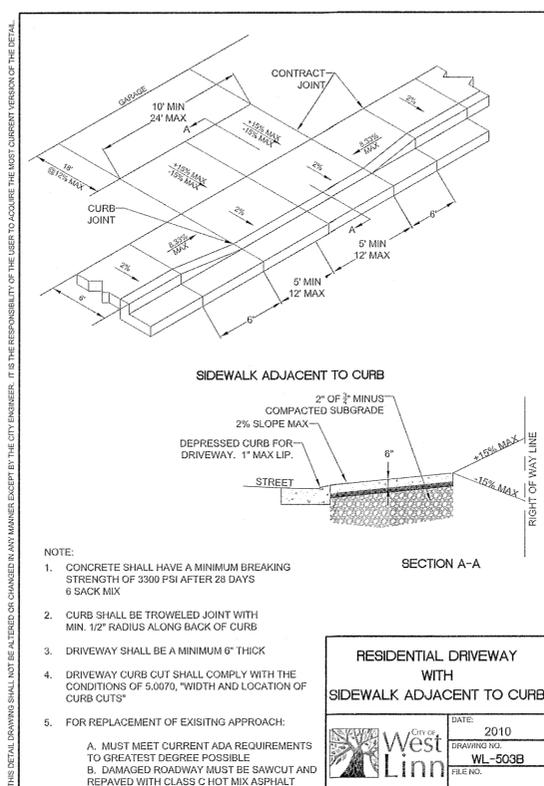
**ALLEY, LOCAL AND NEIGHBORHOOD ROAD STRUCTURAL SECTIONS**

DATE: 2010  
 DRAWING NO.: WL-502  
 FILE NO.:



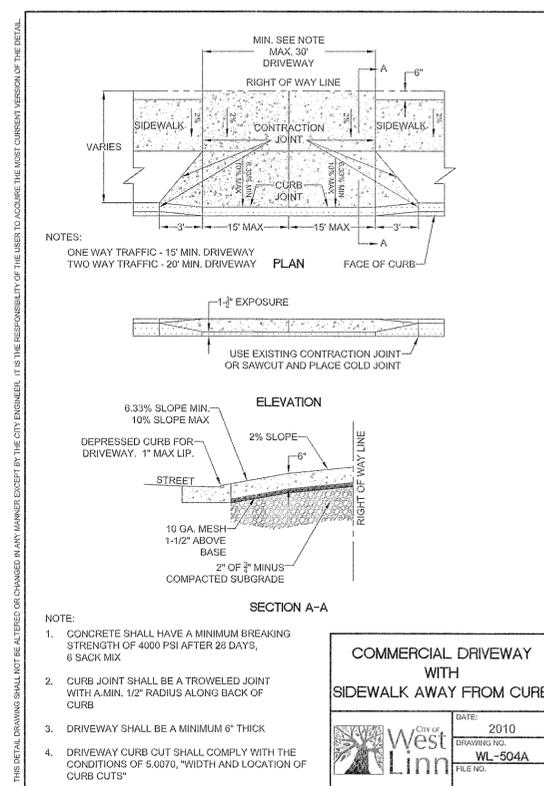
**RESIDENTIAL DRIVEWAY WITH SIDEWALK AWAY FROM CURB**

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



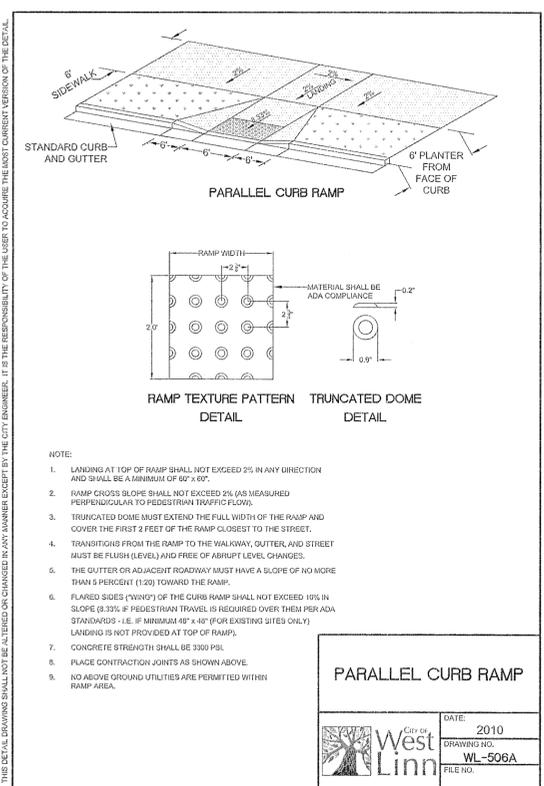
**RESIDENTIAL DRIVEWAY WITH SIDEWALK ADJACENT TO CURB**

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



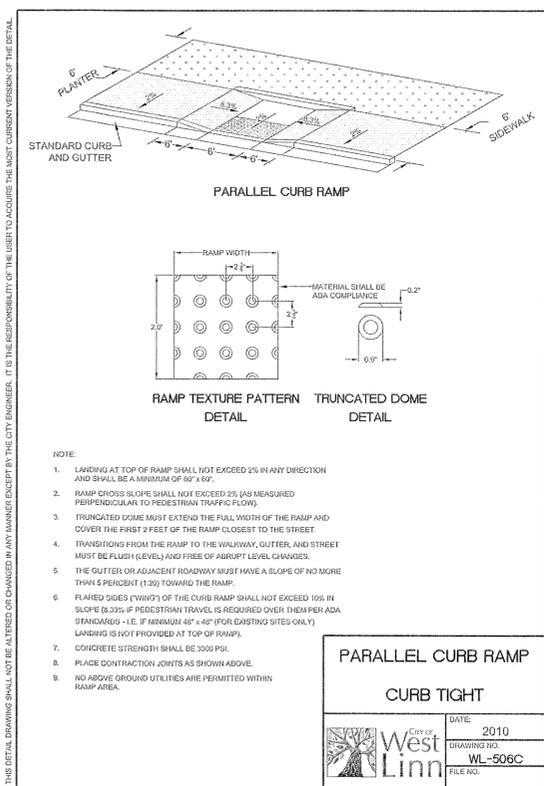
**COMMERCIAL DRIVEWAY WITH SIDEWALK AWAY FROM CURB**

DATE: 2010  
 DRAWING NO.: WL-504A  
 FILE NO.:



**PARALLEL CURB RAMP**

DATE: 2010  
 DRAWING NO.: WL-506A  
 FILE NO.:



**PARALLEL CURB RAMP CURB TIGHT**

DATE: 2010  
 DRAWING NO.: WL-506C  
 FILE NO.:

REVISION	DATE	DESCRIPTION	BY
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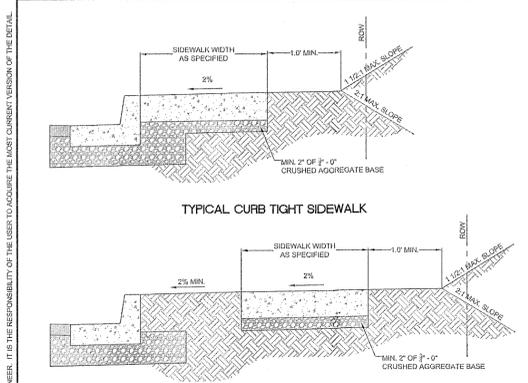


JOB No.:	315087
DESIGNED BY:	DF/TL
DRAWN BY:	RC
CHECKED BY:	MW
PLOT DATE:	6/10/16 6:15pm
PLOTTED BY:	rcdoua
DWG NAME:	PICT7.0--WEST-LINN-DTLS.dwg
TAB NAME:	C7.1

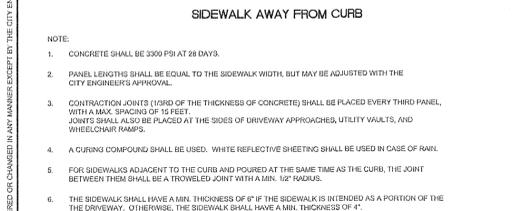
APPROVED FOR CONSTRUCTION BY  
 CITY OF WEST LINN  
 This approval is only for general conformance with applicable codes and requirements and does not constitute a warranty of accuracy or completeness of the drawings. This plan review does not prevent the City of West Linn from making further code corrections in the future.  
 [Signature]

SHEET NO. **C7.1**  
 SHEET 35 OF 41  
 RECORD NO. 315087-35

File: N:\c\2015\315087-Sunset-Primary-School-CAD\PLT\PUBLIC\PICT7.0--WEST-LINN-DTLS.dwg TAB: C7.2  
 Plot: 7/16 at 4:22pm By: ccdu  
 XREF: 5087-dw-xb-2234-5087-pw-kul-5087-rsv



TYPICAL CURB TIGHT SIDEWALK

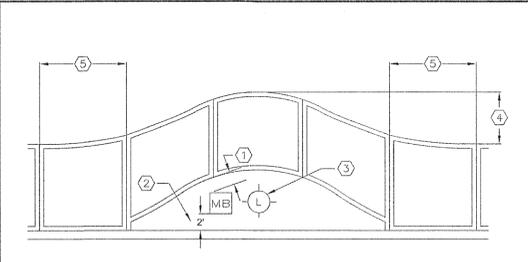


SIDEWALK AWAY FROM CURB

- NOTE:
- CONCRETE SHALL BE 3000 PSI AT 28 DAYS.
  - PANEL LENGTHS SHALL BE EQUAL TO THE SIDEWALK WIDTH, BUT MAY BE ADJUSTED WITH THE CITY ENGINEER'S APPROVAL.
  - CONTRACTION JOINTS (1/500 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.
  - A CURING COMPOUND SHALL BE USED. WHITE REFLECTIVE SHEETING SHALL BE USED IN CASE OF RAIN.
  - 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.
  - THE SIDEWALK SHALL HAVE A MIN. THICKNESS OF 6" IF THE SIDEWALK IS INTENDED AS A PORTION OF THE DRIVEWAY. OTHERWISE, THE SIDEWALK SHALL HAVE A MIN. THICKNESS OF 4".
  - 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.

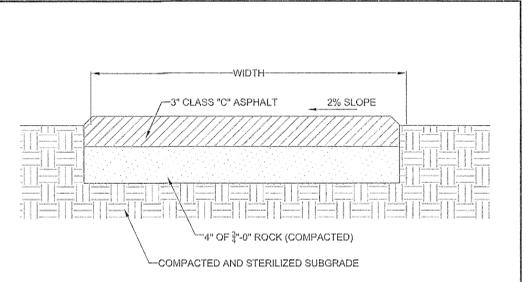


- SPECIFICATIONS:
- MIN. 3" CLEARANCE BETWEEN FACE OF SIDEWALK & CLOSEST POINT ON BACK OF MAILBOX.
  - CENTER OF MAILBOX SHALL BE 2' FROM FACE OF CURB.
  - LIGHT POLES & FIRE HYDRANTS ARE TO BE CENTERED IN ISLAND.
  - 2' FOR FIRE HYDRANTS & LIGHTPOLES  
3' FOR MAILBOXES
  - THE REVERSE CURVE SHALL EXTEND 9' BEYOND THE RE-ROUTED AREA.

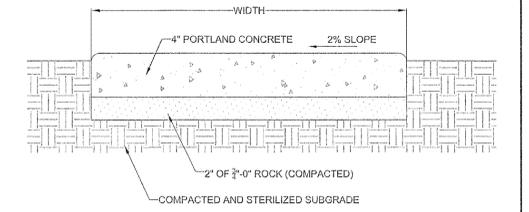
- NOTE:
- SIDEWALKS TO BE RE-ROUTED AROUND ALL LIGHT POLES, MAILBOXES, & FIRE HYDRANTS THAT EXIST IN THE SIDEWALK AREA.
  - MAILBOXES SHALL NOT BE INSTALLED ADJACENT TO FIRE HYDRANTS.
  - SIDEWALKS SHALL NOT BE RE-ROUTED IF EXISTING METER BOXES, UTILITY POLES, ETC., WILL BE IN RE-ROUTED SIDEWALK. A MINIMUM UNOBSTRUCTED SIDEWALK WIDTH MUST BE MAINTAINED PER ADA STANDARDS.
  - 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.

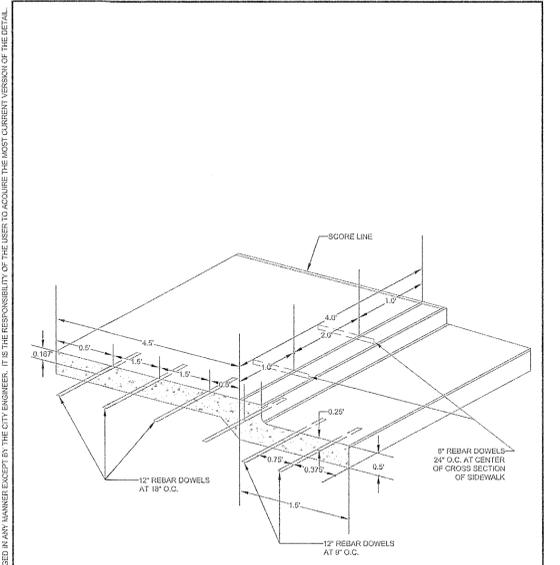


PEDESTRIAN PATH OR BIKEWAY



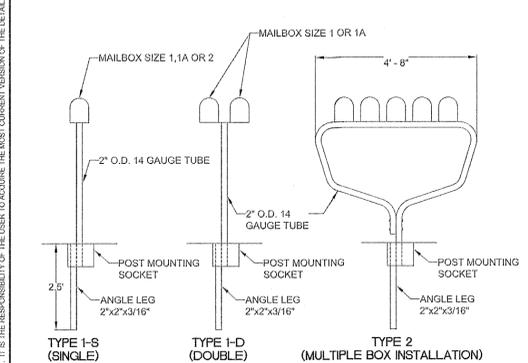
- NOTE:
- CONCRETE SHALL BE 3000 PSI AT 28 DAYS.
  - SIDEWALK PANELS SHALL BE SQUARE, 3/4" DEEP SCRIBES AT JOINTS, EDGED (I.E SHINE) ON 4 SIDES AND HAVE A LIGHT BROOM FINISH.
  - PEDESTRIAN PATH OR BIKEWAY SHALL HAVE A MINIMUM WIDTH OF 6 FEET.

City of West Linn	DATE: 2010
DRAWING NO. WL-510	FILE NO.



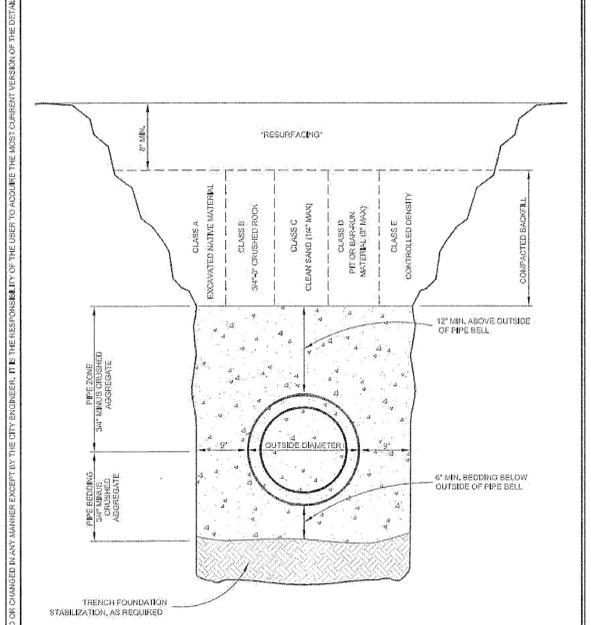
CURB, GUTTER AND SIDEWALK DOWELING DETAIL

City of West Linn	DATE: 2010
DRAWING NO. WL-511	FILE NO.



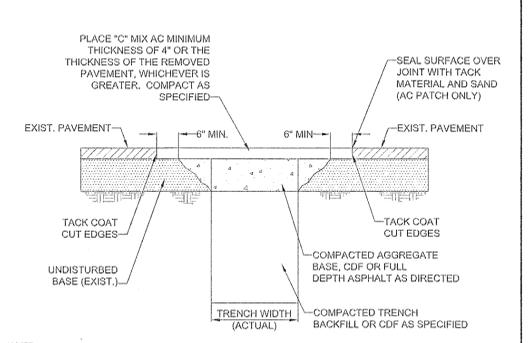
RELOCATED MAILBOX INSTALLATION

City of West Linn	DATE: 2010
DRAWING NO. WL-514	FILE NO.



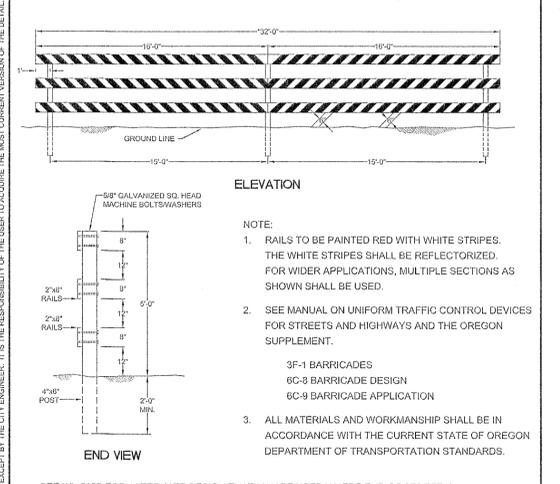
TRENCH BACKFILL BEDDING AND PIPE ZONE

City of West Linn	DATE: 2010
DRAWING NO. WL-200	FILE NO.



STREET T-CUT

City of West Linn	DATE: 2010
DRAWING NO. WL-203	FILE NO.



PERMANENT CLOSURE STREET BARRICADE TYPE III

City of West Linn	DATE: 2010
DRAWING NO. WL-516A	FILE NO.

REVISION	DATE	DESCRIPTION	BY
	7/5/16	ASI-02	
	6/15/16	CONFORMED SET	
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DESIGNED BY:	DF/TL
DRAWN BY:	RC
CHECKED BY:	MW
PLOT DATE:	7/5/16 4:22pm
PLOTTED BY:	ccdu
DWG NAME:	PICT7.0--WEST-LINN-DTLS.dwg
TAB NAME:	C7.2

2351 OXFORD ST, WEST LINN, OR 97146  
 APPROVED FOR CONSTRUCTION BY  
 CITY OF WEST LINN  
 This approval is only for general conformance with design concept and general compliance with applicable codes and requirements and shall not be construed as relieving the Designer of full responsibility for accuracy and completeness of the drawings. This plan review does not prevent the City Engineer from making further code corrections to the drawings.  
 Approved by: *Kevin C. Lo*

SHEET NO. C7.2  
 SHEET 36 OF 41  
 RECORD NO. 315087-36

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.

**NOTE:**

- INSTALLATION LOCATED AT HIGH POINT OF MAIN
- 4" MANHOLE BARREL SECTIONS SHALL BE USED TO INCREASE DEPTH IF NECESSARY
- ALL PIPE AND STRUCTURE ZONES SHALL BE COMPACTED TO 95% OF MAX. DENSITY SPECIFIED IN THE CONTRACT DOCUMENTS
- STD. DETAIL IS NOT FOR SHALLOWER THAN TYPICAL INSTALLATIONS. CONTACT CITY WATER DEPT. FOR OPTIONS

**MATERIAL:**

- ROCKWELL NO. 317 SERVICE SADDLE WITH STAINLESS STRAPS (F.A. I.P.T. X 1/4" I.P.T.)
- STD. 4" CONCRETE MANHOLE CONE
- 2" X VARIABLE LENGTH BRASS I.P.T. NIPPLE
- 2" BRASS 90 DEGREE ELL (MUELLER 110 CTS)
- 1/2" X 1/2" X 4" CONCRETE BLOCK
- NIBCO NO. 118 2" BRASS GATE VALVE
- 2" X 3" BRASS I.P.T. NIPPLE
- AIR RELEASE VALVE (VAL-MATIC 488 OR AFPCO #205 FOR TYPICAL INSTALLATIONS. IN SOME INSTANCES THE CITY ENGINEER MAY REQUIRE AN AIR RELEASE VALVE WITH INSTALL WALL BRACKETS TO SUPPORT VALVE AS NECESSARY
- 1/2" X 1/2" OR 2" X 1/2" BRASS I.P.T. NIPPLE
- 1/2" OR 2" BRASS 90 DEGREE ELL (F.A. I.P.T. X 1/4" I.P.T.)
- STD. 4" CONCRETE MANHOLE CONE
- 2" X VARIABLE LENGTH BRASS I.P.T. NIPPLE
- TAKEOFF OF MANHOLE COVER PER STD. DWG. WL-214.
- 3/4" MINUS CRUSHED AGG.
- 1/2" X 3" OR 2" X 3" BRASS NIPPLE, I.P.T.
- 1/4" SCREEN OVER 1/2" BRASS I.P.T. NIPPLE
- 3 EA. 12" CONCRETE PIER BLOCKS

**STANDARD AIR RELEASE VALVE UNIT**

DATE: 2010  
 DRAWING NO. WL-405  
 FILE NO.

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FITTING SIZE (feet)	TEE, WYE, & HYDRANT'S	STRADDLE BLOCK	90° BEND PLUGGED CROSS TEE PLUGGED CROSS	45° BEND	22 1/2° BEND	11 1/4° BEND
2	1.7	2.1	2.4	1.3	1.3	1.3
4	3.7	4.9	5.3	2.9	2.9	2.9
6	6.7	8.7	9.5	5.1	5.1	5.1
8	10.6	13.6	14.9	8	8	8
10	15.1	19.6	21.3	11.8	11.8	11.8
12	20.8	26.8	29.0	16.4	16.4	16.4
14	27.9	35.9	39.0	22.0	22.0	22.0
16	35.9	44	47.9	28.0	28.0	28.0
LARGER	..	..	..	..	..	..

**BEARING AREA OF THRUST BLOCKS (sq. ft.)**

- ALL VALUES ARE BASED ON THE FOLLOWING ASSUMPTIONS: AVG. PRESSURE = 100 PSI X 2 (safety factor); 1500 PSF SOIL BEARING CAPACITY; NORMAL DISTRIBUTION DESIGN VELOCITY NOT TO EXCEED 5 FT/S.
- ALL FITTINGS SHALL BE WRAPPED IN 8 MM PLASTIC PRIOR TO PLACEMENT OF CONCRETE.
- BEARING SURFACE OF THRUST BLOCKING SHALL BE AGAINST UNDISTURBED SOIL.
- ALL CONCRETE MIX SHALL HAVE A MIN. 28 DAY STRENGTH OF 3000 PSI.
- ALL PIPE ZONES SHALL BE GRAVEL FILLED AND COMPACTED.
- THRUST BLOCKS FOR PLUGGED CROSS AND PLUGGED TEE SHALL HAVE #4 REBAR LIFTING LOOPS INSTALLED AS SHOWN.
- VERTICAL THRUST DETAILS-SEE DWG. WL-407.
- STRADDLE BLOCK DETAILS-SEE DWG. WL-408.

**HORIZONTAL THRUST BLOCKING**

DATE: 2010  
 DRAWING NO. WL-406  
 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.

**NOTE:**

- GRAVITY VERTICAL THRUST BLOCKS SHALL BE DESIGNED BY THE ENGINEER.
- KEEP CONCRETE CLEAR OF JOINT AND JOINT ACCESSORIES. FITTINGS SHALL BE WRAPPED IN 8MM PLASTIC PRIOR TO PLACEMENT OF CONCRETE.
- CONCRETE THRUST BLOCKING SHALL BE POURED AGAINST UNDISTURBED EARTH.
- CONCRETE MIX SHALL HAVE A MIN. 28 DAY STRENGTH OF 3300 P.S.I.
- THRUST BLOCK VOLUMES FOR VERTICAL BENDS HAVING UPWARD RESULTANT THRUSTS SHALL BE BASED ON TEST PRESSURE OF 180 PSI AND THE WEIGHT OF CONCRETE = 4050 LBS./CU.YD.
- VERTICAL BENDS THAT REQUIRE A THRUST BLOCK VOLUME EXCEEDING 5 CUBIC YARDS REQUIRE SPECIAL BLOCKING DETAILS. SEE PLANS FOR VOLUMES SHOWN INSIDE HEAVY LINE IN TABLE BELOW.
- PAYMENT SHALL BE THE SAME AS FOR HORIZONTAL THRUST BLOCKS.
- ALL REBAR SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM-A123 (MIN. 3.4 MIL). REBAR SHALL BE BENT BEFORE GALVANIZATION, AND LAST 4" OF BAR SHALL BE BENT 90 DEGREES WITH A 1/2" RADIUS BEND. REBAR SHALL BE TIGHTLY FIT TO RESTRAINED FITTING.
- FOR HORIZONTAL THRUST BLOCK DETAILS SEE DWG. NO. WL-406.

**VOLUME OF THRUST BLOCK IN CUBIC YARDS (VERTICAL BENDS)**

FITTING SIZE	45°	22 1/2°	11 1/4°
4	1.1	0.4	0.2
6	2.7	1.0	0.4
8	4.0	1.5	0.6
10	6.0	2.3	0.9
12	8.5	3.2	1.3
14	11.5	4.3	1.8
16	14.8	5.6	2.3

**VERTICAL THRUST BLOCKING**

DATE: 2010  
 DRAWING NO. WL-407  
 FILE NO.

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**STANDARD VALVE BOX DETAIL**

DATE: 2010  
 DRAWING NO. WL-411  
 FILE NO.

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**NOTE:**

- HYDRANT TO BE MUELLER CENTURION MOLA#23 WITH 1 1/2" OPER. NUTS OR CLOW MEDALLION F-2545.
- HYDRANT COLOR TO BE MILLER EQUIP. ENAMEL O/E 40 (SAFETY YELLOW).
- JOINTS TO BE RESTRAINED BY 3/4" DIA. GALVANIZED STEEL RODS AND THRUST BLOCKS OR MEGALUGS AND THRUST BLOCKS.
- ALL FITTINGS IN CONTACT WITH CONCRETE SHALL BE WRAPPED IN PLASTIC. HYDRANT DRAIN HOLES TO REMAIN OPEN TO DRAIN ROCK AND OPERATIONAL.
- MIN. 4 CFT OF 1 1/2" - 3/4" CLEAN DRAIN ROCK SHALL BE PLACED AROUND SHOE UP TO A MIN. OF 6" ABOVE DRAIN OUTLETS.
- WHERE PLANTER STRIP EXISTS, HYDRANT SHALL BE PLACED SO THE FRONT PORT IS A MINIMUM OF 24" BEHIND THE FACE OF THE CURB.
- WHERE INTEGRAL SW & CURB EXISTS, HYDRANT SHALL BE PLACED AT BACK OF THE SIDEWALK, OR AS DIRECTED BY ENGINEER.

**STANDARD FIRE HYDRANT ASSEMBLY**

DATE: 2010  
 DRAWING NO. WL-401  
 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.

**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 PREFORMED PLASTIC OR RUBBER RING TO FORM A WATER TIGHT SEAL.
- LOCATE STEPS ON UPSTREAM SIDE OF MANHOLE.

**STANDARD MANHOLE FOR LESS THAN 36" PIPE**

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

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**NOTE:**

- MANHOLE LID TO BE 1' ABOVE FINISH GRADE IN UNPAVED EASEMENTS.
- GRADE RINGS - VARIABLE, MAX. 3 LAYERS, 12" MAX
- PRECAST SECTIONS AND POURED CONCRETE BASES SHALL CONFORM TO CITY STANDARD SPECIFICATIONS.
- ALL JOINTS SHALL BE SEALED WITH PREFORMED PLASTIC OR RUBBER RING TO FORM A WATER TIGHT SEAL.
- LOCATE STEPS ON UPSTREAM SIDE OF MANHOLE.

**SHALLOW MANHOLE FOR LESS THAN 36" PIPE**

DATE: 2010  
 DRAWING NO. WL-208  
 FILE NO.

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**NOTE:**

- BOTTOM RISER TO BE BEDDED IN THE CAST-IN-PLACE AS THE BASE TAKES ITS INITIAL SET. SET FOR 24 HOUR MIN. OR UNTIL CONCRETE HAS CURED SUFFICIENTLY BEFORE ADDING ADDITIONAL RISERS.
- 3" TO 6" CLEARANCE BETWEEN BOTTOM RISER SECTION AND TOP OF PIPE. RISER SECTION MUST BE CAST TO ACCOMMODATE PIPE (DOG HOUSE) NO SAWING OR OR BREAKING OF RISER WILL BE ALLOWED.
- REMOVE TOP OF PIPE ONLY AFTER TESTING AND ACCEPTED BY CITY.

**NEW MANHOLE TO EXISTING PVC SEWER LINE CONNECTION**

DATE: 2010  
 DRAWING NO. WL-210A  
 FILE NO.

REVISION	DATE	DESCRIPTION	BY
6/15/16	CONFORMED SET		
4/19/16	BID SET		



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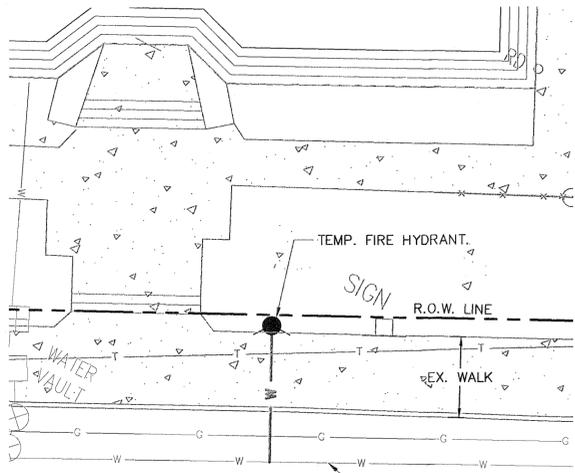
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DESIGNED BY:	DF/TL
DRAWN BY:	RC
CHECKED BY:	MW
PLOT DATE:	6/10/16 6:16pm
PLOTTED BY:	rcaudua
DWG NAME:	PICT.0--WEST-LINN-DTLS.dwg
TAB NAME:	C7.3

APPROVED FOR CONSTRUCTION BY  
 CITY OF WEST LINN

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WEST LINN DETAIL  
 DATE: 7/11/16 BY: *[Signature]*

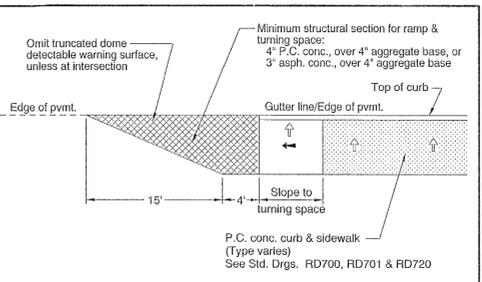
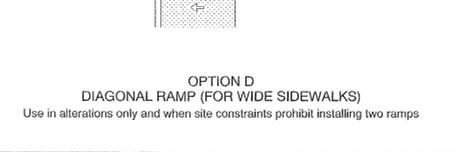
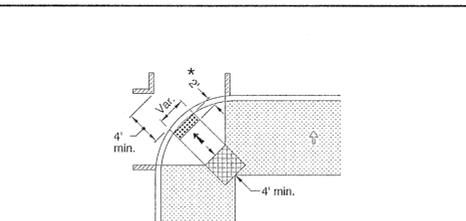
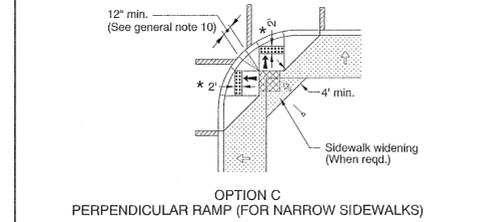
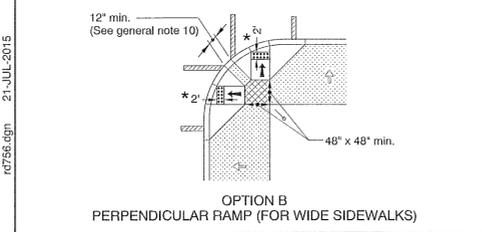
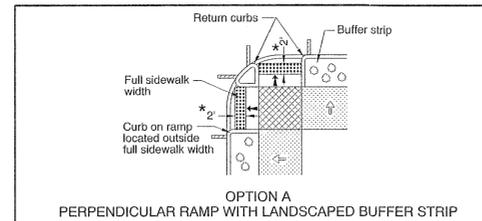




**OXFORD STREET**

- NOTES**
- TEMPORARY HYDRANT TO BE REMOVED DURING DEMOLITION OF EXISTING SCHOOL (PHASE 3), REFERENCE DEMOLITION PLAN C1.2.

**6 TEMPORARY FIRE HYDRANT INSTALLATION - PLAN VIEW**  
SCALE: NTS

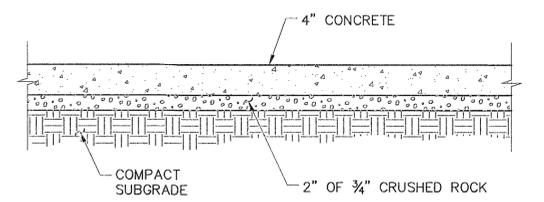


- GENERAL NOTES FOR ALL DETAILS:**
- Sidewalk ramp details are based on United States Access Board Standards.
  - See Std. Drgs. RD700 & RD701 for curbs. See Std. Drg. RD720 for sidewalks. See Std. Drgs. TM503 & TM530 for crosswalk markings, widths, etc. See Std. Drg. RD755 for sidewalk ramp details.
  - Tooled joints are required at all sidewalk ramp slope break lines.
  - Sidewalk curb ramp slopes shown are relative to the true level horizon (Zero bubble).
  - Place truncated dome detectable warning surface in the lower 2' adjacent to traffic of throat of ramp only. For details not shown, see Std. Drg. RD759.
  - Side flares that are not part of the path of travel may be any slope. Check the gutter flow depth to assure that the design flood does not overlap the back of sidewalk. If overlapping occurs place an inlet at upstream side or perform other approved design mitigation.
  - Sidewalk flare is not necessary where the ramp is protected from pedestrian cross-travel.
  - For the purpose of this drawing, a curb ramp is considered "perpendicular" if the angle between the longitudinal axis of the ramp and a line tangent to the curb at the ramp center is 75° or greater.
  - Ramps for paths intersecting a roadway should be full width of path, excluding flares. When a ramp is used to provide bicycle access from a roadway to a sidewalk, the ramp should be 6' wide.
  - When 2 curb ramps are immediately adjacent as in Options B & C, the curb exposure (e) between the adjacent side flares may range between 3" and full design exposure.
  - Only use options allowed by jurisdiction.
  - See project plans for details not shown.

- LEGEND**
- Marked or intended crossing location
  - Sidewalk
  - Turning space  
Min. level area 4' x 4'  
4' x 5' when constrained (with longer dimension in direction of ramp travel). For the purposes of this application, a 2% maximum construction slope (for drainage) is considered level.
  - Truncated dome detectable warning surface
  - Slope 1.5% design (2% max. construction) (Normal sidewalk cross slope)
  - Slope 7.5% design (8.3% max. construction) (Ramp length 15' max.)
  - \* 2' See general note 5

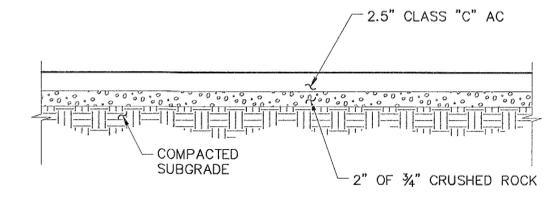
CALC. BOOK NO. N/A	BASELINE REPORT DATE 21-JUL-2015
NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications	
OREGON STANDARD DRAWINGS	
SIDEWALK RAMP PLACEMENT OPTIONS SMALL RADII	
DATE 2015	REVISION DESCRIPTION
01-0115	REVISED DRAWING TITLE, DETAILS & NOTES
02-0115	REARRANGED DETAILS & REVISED NOTES

Effective Date: December 1, 2015 - May 31, 2016 RD756

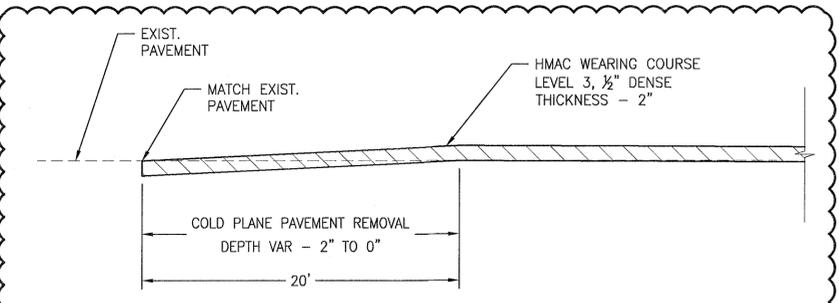


- NOTES:**
- CONSTRUCT CONTRACTION JOINTS AT 15' MAX. SPACING AND AT RAMP.
  - CONSTRUCT EXPANSION JOINTS AT 200' MAX. SPACING AT POINTS OF TANGENCY AND AT ENDS OF EACH DRIVEWAY.
  - PROVIDE MEDIUM TO COARSE BROOM FINISH.

**1 CONCRETE DRIVEWAY CONNECTION**  
SCALE: NTS

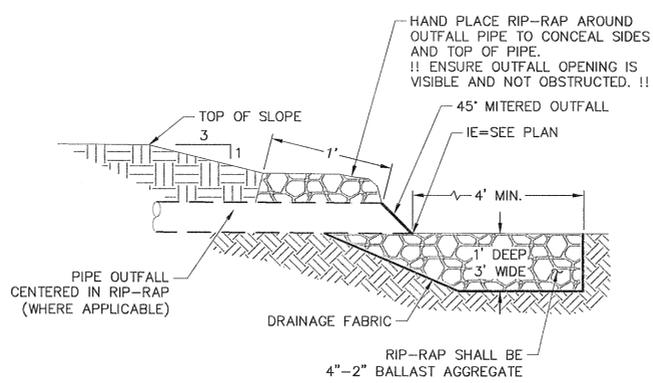


**2 ASPHALT CONCRETE DRIVEWAY CONNECTION**  
SCALE: NTS

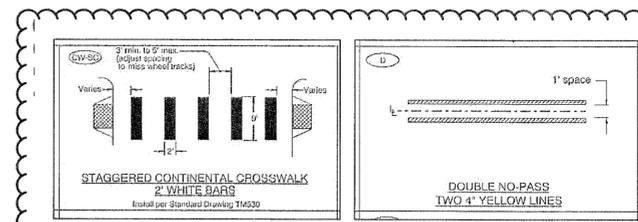


- NOTES:**
- CONTRACTOR TO VERIFY EXTENTS OF COLD-PLANING TO MINIMIZE REMOVAL OF EXISTING PAVEMENT.

**6 BUTT JOINT**  
SCALE: NTS



**5 OUTFALL RIP-RAP PROTECTION**  
SCALE: NTS



DETAIL EXTRACTED FROM ODOT STANDARD DETAIL TM-503 CROSSWALK

DETAIL EXTRACTED FROM ODOT STANDARD DETAIL TM-500 DOUBLE YELLOW

**4 STRIPING**  
SCALE: NTS

- NOTES:**
- STRIPING PER ODOT STANDARD DETAILS TM-500 AND TM-503.
  - ALL CURB AND PAVEMENT MARKING MATERIALS SHALL BE ON THE CITY'S CONSTRUCTION PRODUCTS LIST (CPL) OR THE STATE'S QUALIFIED PRODUCTS LIST (QPL). ALL MATERIALS SHALL BE INSTALLED IN CONFORMANCE WITH THE MANUFACTURER'S APPROVED APPLICATION PROCEDURE.
  - ALL LONGITUDINAL LINE WORK TO BE METHOD B (NON-PROFILE) EXTRUDED THERMOPLASTIC, 120 MILS THICK.

**PR-01**

File: N:\A\2015\315087-sunset-primary-school\CAD\DRAWING\DWG\C7.5-01-WEST-LINN-DTL.dwg TAB: C7.5  
Plotter: 6/10/16 01:06:48  
22x34 XREFS: 5067-pw-xib-22x34 5067-pw-xit 5067-xsv

REVISION	DATE	DESCRIPTION	BY
6/15/16	CONFORMED SET		
4/19/16	BID SET		



111 SW Fifth Ave., Suite 2500  
Portland, OR 97204  
O: 503.227.3251  
F: 503.224.4881  
www.kpff.com



JOB No.:	315087
DESIGNED BY:	DF/TL
DRAWN BY:	RC
CHECKED BY:	MW
PLOT DATE:	6/10/16 6:46pm
PLOTTED BY:	roadua
DWG NAME:	PIC7.0-WEST-LINN-DTL.dwg
TAB NAME:	C7.5

2351 OXFORD ST, WEST LINN, OR 97068  
**APPROVED FOR CONSTRUCTION BY**  
 CITY OF WEST LINN  
 PUBLIC IMPROVEMENT DIVISION  
 SUNSET PRIMARY SCHOOL  
 CITY OF WEST LINN  
 This approval is only for general conformance with the design concept and general compliance with applicable codes and requirements and shall not be construed as relieving the Design Engineer of full responsibility for accuracy and completeness of the drawings. This plan review approval does not prevent the City from requiring further code corrections in the future.  
 Mark B. Wharry

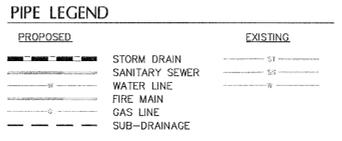
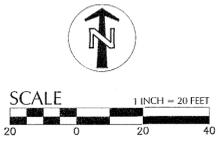
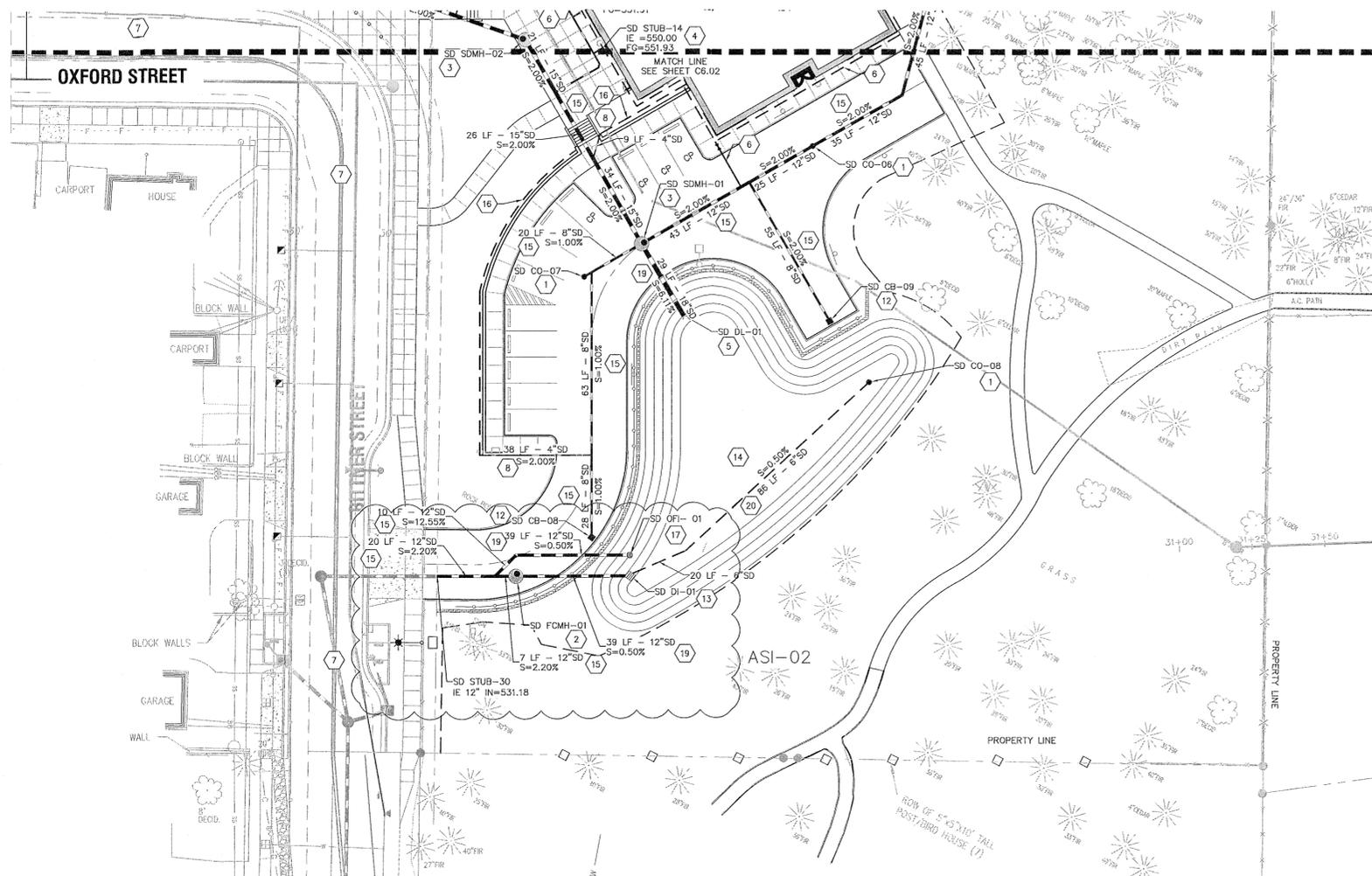
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RECORD NO.	315087-39		

**C7.5**





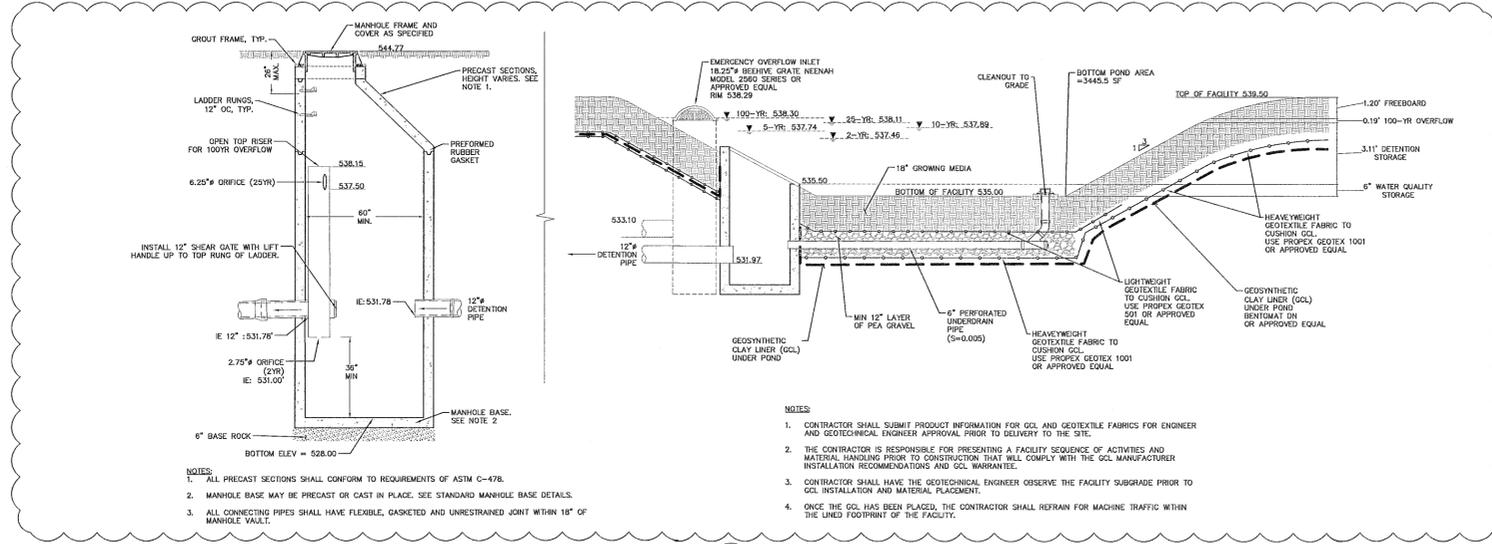




- (X) STORM KEYNOTES**
- INSTALL STANDARD CLEANOUT.
  - INSTALL FLOW CONTROL MANHOLE.
  - INSTALL STANDARD 48" DIAMETER MANHOLE.
  - CONNECT TO BUILDING ROOF DRAIN STUB WITH PVC LATERAL LATER TO BE 8" DIAMETER UNLESS OTHERWISE NOTED ON PLANS. SLOPE AT A MINIMUM OF 2% SEE PLUMBING PLANS FOR CONTINUATION. CONFIRM DOWNSPOUT LOCATION WITH ARCHITECTURAL AND PLUMBING PLANS PRIOR TO CONSTRUCTION.
  - DAYLIGHT STORM PIPE.
  - PROVIDE BUILDING FOOTING DRAIN SYSTEM AND CONNECT TO STORM DRAIN WITH SOLID WALL PVC PIPE. S=1% MINIMUM, SIZE TO MATCH SUB-DRAIN. INSTALL BACKWATER VALVE.
  - SEE PUBLIC IMPROVEMENT (PI) PLANS FOR WORK IN RIGHT OF WAY (ROW).
  - CONNECT RETAINING WALL SUB-SURFACE DRAIN TO STORM SYSTEM WITH 4" SOLID WALL PVC.
  - PROVIDE TRENCH DRAIN.
  - TRENCH DRAIN POINT OF CONNECTION. SEE STRUCTURE TABLE FOR LOCATION.
  - PROVIDE AREA DRAIN (AD).
  - PROVIDE CATCH BASIN.
  - PROVIDE STANDARD DITCH INLET.
  - CONSTRUCT STORMWATER TREATMENT/RETENTION FACILITY.
  - PROVIDE PVC STORM DRAIN PIPE.
  - PROVIDE 4" PVC PERF DRAIN IN 8" DRAIN ROCK ENVELOPE BEHIND RETAINING WALL.
  - PROVIDE DETENTION OVERFLOW STRUCTURE.
  - CONNECT TO EXTERIOR DOWNSPOUT AND PROVIDE CLEANOUT AT CONNECTION.
  - PROVIDE DUCTILE IRON STORM DRAIN PIPE AT RETAINING WALL CROSSING.
  - PROVIDE 6" PVC PERF DRAIN IN 12" DRAIN ROCK UNDER STORMWATER FACILITY.

**(SD) STRUCTURE TABLE**

STRUCTURE ID	NORTHING	EASTING	RIM ELEVATION	INVERT ELEVATIONS
AD-01	10120.56	10326.02	553.00	IE 8"(OUT) = 549.33 (W)
AD-02	10153.18	10326.02	553.00	IE 8"(OUT) = 549.33 (W)
AD-03	10185.81	10326.02	553.00	IE 8"(OUT) = 549.33 (W)
AD-04	10194.74	10339.59	553.27	IE 8"(OUT) = 549.33 (W)
AD-05	10225.15	10376.41	554.00	IE 8"(OUT) = 550.34 (S)
AD-06	10223.64	10392.06	554.00	IE 8"(OUT) = 550.33 (S)
CB-01	10184.61	9859.61	555.00	IE 8"(OUT) = 551.83 (S)
CB-02	10049.23	10013.05	551.55	IE 8"(OUT) = 548.55 (E)
CB-03	10036.04	10030.94	550.98	IE 8"(OUT) = 548.28 (N)
CB-04	10103.85	9893.48	555.09	IE 8"(OUT) = 551.28 (NE)
CB-05	10053.08	9992.58	551.00	IE 8"(OUT) = 549.00 (NE)
CB-06	10046.34	10067.33	552.30	IE 8"(OUT) = 547.95 (N)
CB-07	10178.40	10138.63	554.65	IE 8"(OUT) = 551.65 (E)
CB-08	9828.50	10374.46	544.34	IE 8"(OUT) = 539.84 (N)
CB-09	9903.30	10456.36	544.27	IE 8"(OUT) = 539.58 (NW)
CB-11	10216.99	10383.57	551.78	IE 10"(IN) = 546.91 (W) IE 10"(OUT) = 546.91 (E)
CB-12	10044.82	10156.79	552.85	IE 8"(OUT) = 545.74 (N)
CO-01	10124.97	9925.70	555.78	IE 10"(IN) = 550.16 (NW) IE 10"(OUT) = 550.16 (SE)
CO-02	10098.77	10323.02	553.94	IE 8"(OUT) = 549.61 (N)
CO-03	10216.99	10344.59	554.05	IE 8"(IN) = 547.66 (W) IE 8"(OUT) = 547.66 (E)
CO-04	10169.03	10443.93	551.98	IE 10"(IN) = 545.01 (S) IE 10"(OUT) = 545.01 (S)
CO-05	10083.34	10458.14	550.73	IE 10"(IN) = 543.22 (NW) IE 12"(OUT) = 543.05 (SE)
CO-06	9963.71	10450.52	545.92	IE 12"(IN) = 540.08 (NE) IE 12"(OUT) = 540.08 (SW)
CO-07	9918.59	10371.86	545.89	IE 8"(OUT) = 538.98 (NE)
CO-08	9882.18	10469.92	533.04	IE 6"(OUT) = 532.50 (SW)
DI-01	9815.25	10387.66	535.50	IE 12"(OUT) = 531.97 (W) IE 6"(IN) = 531.97 (NE)
DI-01	9905.14	10406.12	537.62	IE 18"(IN) = 538.00 (NW)
FCMH-01	9815.18	10348.42	544.77	IE 12"(IN) = 531.78 (E) IE 12"(OUT) = 531.78 (W)
OFI-01	9822.44	10387.47	538.30	IE 12"(OUT) = 533.10 (W)
SDMH-01	9929.96	10391.59	545.93	IE 12"(IN) = 538.73 (NE) IE 18"(OUT) = 537.78 (SE) IE 15"(IN) = 539.72 (NW) IE 8"(IN) = 538.73 (SW)
SDMH-02	10000.37	10351.68	551.55	IE 15"(IN) = 541.33 (W) IE 15"(OUT) = 541.33 (SE)
SDMH-03	10067.98	10154.50	554.13	IE 12"(IN) = 545.78 (W) IE 15"(OUT) = 545.51 (E) IE 10"(IN) = 545.51 (N) IE 8"(IN) = 545.51 (S)
SDMH-04	10252.95	10154.08	555.75	IE 8"(IN) = 549.04 (NE) IE 8"(OUT) = 549.04 (S)
SDMH-05	10069.79	10032.91	547.95	IE 12"(IN) = 547.75 (NW) IE 12"(OUT) = 547.58 (E) IE 8"(IN) = 547.58 (S)
SDMH-06	10216.99	10421.08	554.15	IE 10"(IN) = 546.15 (SE) IE 10"(OUT) = 546.15 (SW)



**1 FLOW CONTROL MANHOLE & STORM FACILITY SECTION**  
SCALE: NTS

**WEST LINN WILSONVILLE**  
2755 SW Portland Road  
Tualatin, OR 97062  
(503) 673-7995

**Dull Olson Weekes - IBI Group Architects, Inc.**  
907 SW Stark Street Portland OR 97205 USA  
tel 503 226 6680 fax 503 273 9192  
www.dow-ibi.com www.ibigroup.com

**kpff**  
111 SW Fifth Ave., Suite 2500  
Portland, OR 97204  
P: 503.274.4641  
www.kpff.com

**SUNSET REVISIONING**  
West Linn Wilsonville School District  
2361 Oxford St., West Linn, OR 97068  
t: (503) 673-7988

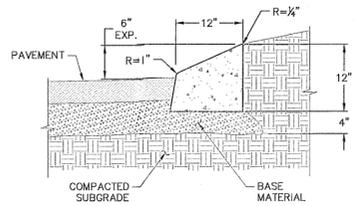
phase **Conformed Set**

date **June 15, 2016**

revisions  
ASI-02 07.05.2016

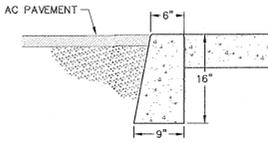
project # **15015**  
**STORM PLAN SOUTHEAST**  
**C6.03**

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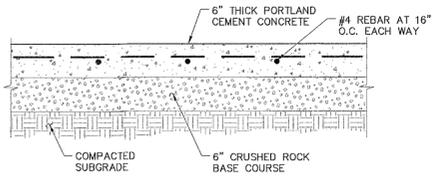


- NOTES:
- CONCRETE SHALL BE 3000 PSI.
  - INSTALL CONTRACTION AND EXPANSION JOINTS AT SPECIFIED DISTANCE.

15 CONCRETE CURB - MOUNTABLE  
SCALE: NTS

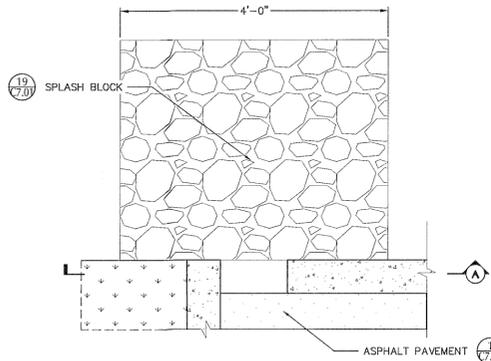


16 FLUSH CURB  
SCALE: NTS

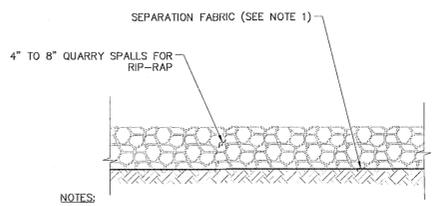


- NOTES:
- CONSTRUCT CONTRACTION JOINTS AT 10' MAX. SPACING AND AT RAMPS. CONSTRUCT EXPANSION JOINTS AT 20' MAX. SPACING AT POINTS OF TANGENCY AND AT ENDS OF EACH DRIVEWAY.
  - PROVIDE MEDIUM BROOM FINISH.

17 CONCRETE PAVEMENT SECTION  
SCALE: NTS

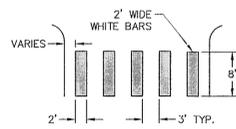


18 CURB SPILLWAY  
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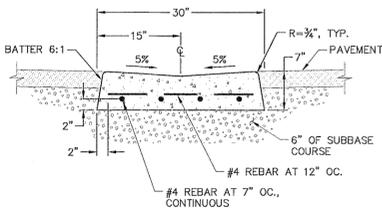
- NOTES:
- INSTALL SEPARATION FABRIC ALONG BOTTOM AND SIDE OF SPLASH BLOCK AND ANCHOR PER MANUFACTURER'S RECOMMENDATIONS.

19 SPLASH BLOCK  
SCALE: NTS



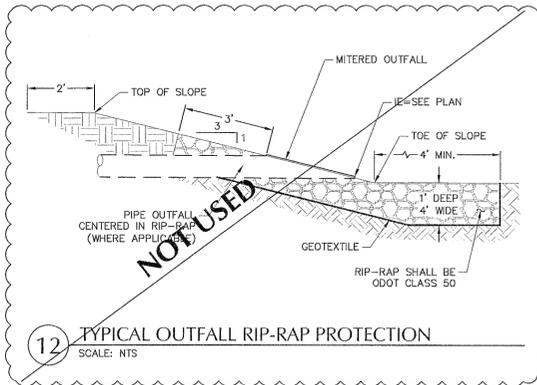
- NOTES:
- STRIPING TO MEET CITY OF WEST LINN REQUIREMENTS.
  - STRIPING MATERIAL TO BE THERMAL PLASTIC OR OTHER HEAVY-DUTY MATERIAL THAT WILL HAVE RELATIVELY LITTLE MAINTENANCE.

10 CROSSWALK STRIPING  
SCALE: NTS

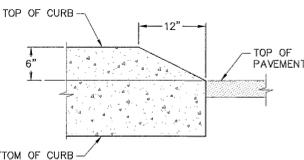


- NOTES:
- CONSTRUCT CONTRACTION JOINTS AT 15' MAX. SPACING. CONSTRUCT EXPANSION JOINTS AT 40' MAX SPACING.

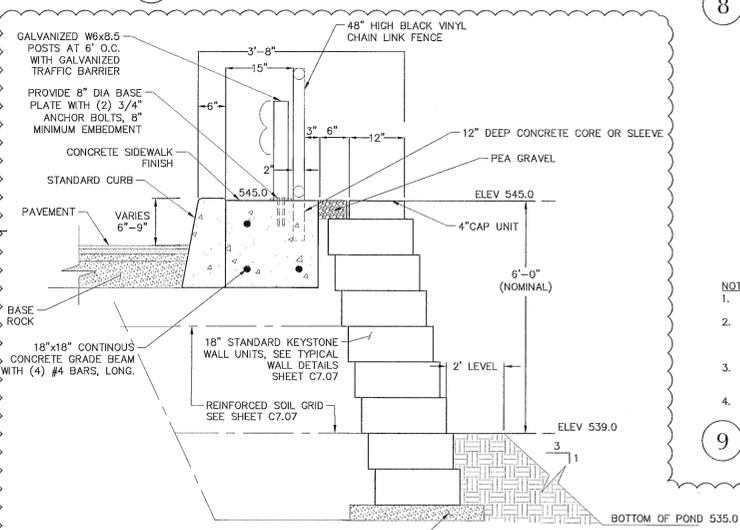
11 VALLEY CUTTER  
SCALE: NTS



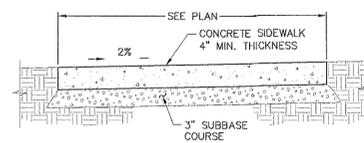
12 TYPICAL OUTFALL RIP-RAP PROTECTION  
SCALE: NTS



13 CONCRETE CURB - ENDING  
SCALE: NTS

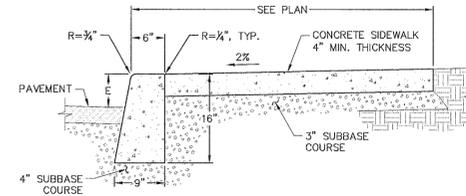


14 WALL TOP DETAIL  
SCALE: NTS



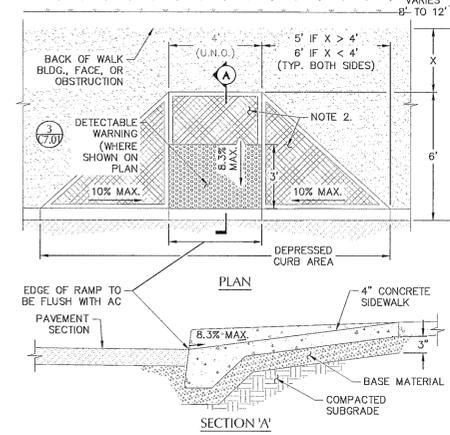
- NOTES:
- CONSTRUCT CONTRACTION JOINTS AT 15' MAX. SPACING AND AT RAMPS. CONSTRUCT EXPANSION JOINTS AT 200' MAX SPACING, AT POINTS OF TANGENCY AND AT ENDS OF EACH DRIVEWAY, UNLESS NOTED OTHERWISE.

6 CONCRETE SIDEWALK  
SCALE: NTS



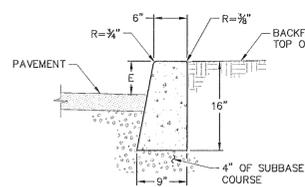
- NOTES:
- CURB EXPOSURE 'E' = 6", TYP. VARY AS SHOWN ON PLANS OR AS DIRECTED.
  - CONSTRUCT CONTRACTION JOINTS AT 15' MAX. SPACING AND AT RAMPS. CONSTRUCT EXPANSION JOINTS AT 200' MAX SPACING, AT POINTS OF TANGENCY AND AT ENDS OF EACH DRIVEWAY, UNLESS NOTED OTHERWISE.
  - TOPS OF ALL CURBS SHALL SLOPE TOWARD THE ROADWAY AT 2% UNLESS OTHERWISE SHOWN OR AS DIRECTED.
  - DIMENSIONS ARE NOMINAL AND MAY VARY TO CONFORM WITH CURB MACHINE AS APPROVED BY THE ENGINEER.

7 CURB & SIDEWALK - STANDARD  
SCALE: NTS



- NOTES:
- CONCRETE SHALL BE 3,000 PSI.
  - PROVIDE RAMP TEXTURING WITH AN EXPANDED METAL GRATE PLACED ON AND REMOVED FROM WET CONCRETE TO LEAVE A DIAMOND PATTERN. EACH DIAMOND SHALL BE 1 1/2" LONG BY 1/2" WIDE WITH THE LONG SECTION AXIS ORIENTED PERPENDICULAR TO THE CURB. THE GROOVES SHALL BE 1/8" DEEP BY 1/4" WIDE.

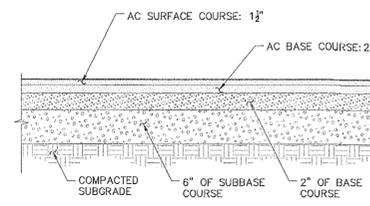
8 CURB RAMP - TYPE 1  
SCALE: NTS



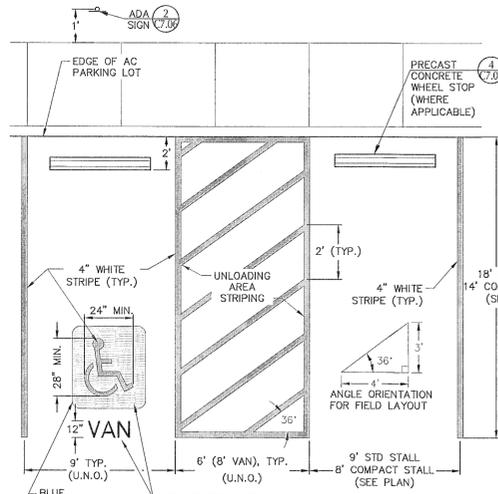
- NOTES:
- CURB EXPOSURE 'E' = 6", TYP. VARY AS SHOWN ON PLANS OR AS DIRECTED.
  - CONSTRUCT CONTRACTION JOINTS AT 15' MAX. SPACING AND AT RAMPS. CONSTRUCT EXPANSION JOINTS AT 200' MAX SPACING AT POINTS OF TANGENCY AND AT ENDS OF EACH DRIVEWAY.
  - TOPS OF ALL CURBS SHALL SLOPE TOWARD THE ROADWAY AT 2% UNLESS OTHERWISE SHOWN OR AS DIRECTED.
  - DIMENSIONS ARE NOMINAL AND MAY VARY TO CONFORM WITH CURB MACHINE AS APPROVED BY THE ENGINEER.

9 CONCRETE CURB - STANDARD  
SCALE: NTS

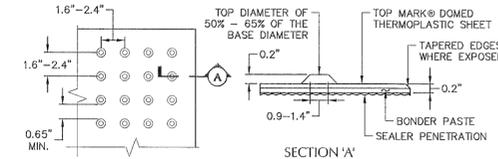
APPROVED FOR CONSTRUCTION BY CITY OF WEST LINN  
This approval is only for general conformance with the design concept and general compliance with applicable codes and requirements and shall not be construed as relieving the Design Engineer of full responsibility for accuracy and completeness of the drawings. This plan review approval does not prevent the City from requiring further code corrections in the field.  
DATE: 4/11/16 BY: [Signature]



1 ASPHALT PAVEMENT SECTION - LIGHT  
SCALE: NTS

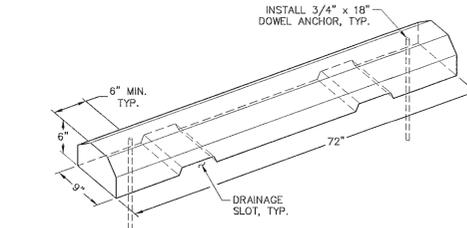


2 TYPICAL PARKING LAYOUT  
SCALE: NTS



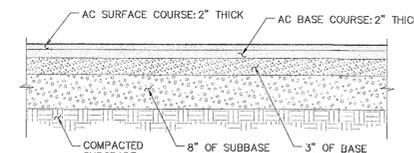
- NOTES:
- THERMOPLASTIC DETECTABLE WARNINGS SHALL BE INSTALLED AS SHOWN IN PLANS AND DETAILS AND TO THE FULL WIDTH OF CURB RAMP OR FLUSH SURFACE. THE DETECTABLE WARNING SHALL BE LOCATED SO THAT THE EDGE NEAREST THE CURB LINE OR OTHER POTENTIAL HAZARD IS 6 TO 8 INCHES FROM THE CURB LINE OR OTHER POTENTIAL HAZARD.
  - THERMOPLASTIC DETECTABLE WARNING SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
  - MANUFACTURER OF DETECTABLE WARNING: TOPMARK BY FLINT TRADING INC. PH: (336) 475-6600 WWW.FLINTTRADING.COM OR APPROVED EQUAL

3 DETECTABLE WARNING - TYPE 1  
SCALE: NTS

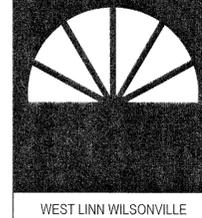


- NOTES:
- DIMENSIONS ARE NOMINAL AND MAY VARY TO CONFORM TO MANUFACTURER'S PRODUCTS APPROVED BY ENGINEER.

4 PRECAST CONCRETE WHEEL STOP  
SCALE: NTS



5 ASPHALT PAVEMENT SECTION - HEAVY  
SCALE: NTS



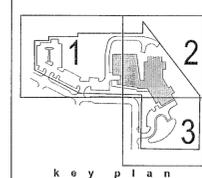
WEST LINN WILSONVILLE  
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Architects, Inc.  
907 SW Stark Street Portland, OR 97205 USA  
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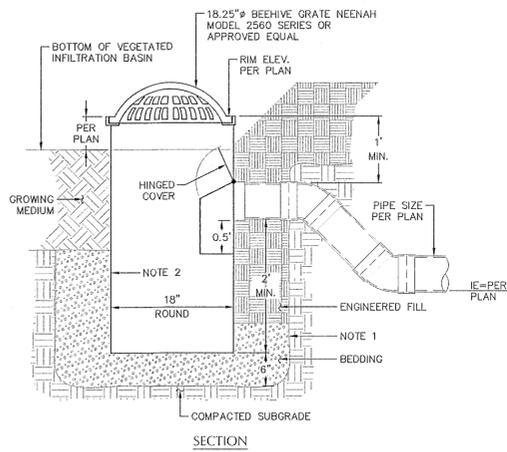


SUNSET REVISIONING  
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2351 Oxford St, West Linn, OR 97068  
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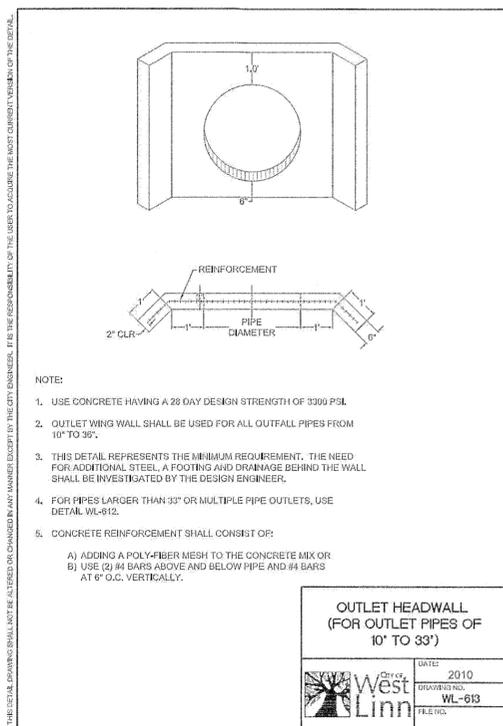
phase	Conformed Set
date	June 15, 2016
revisions	ASI-02/07.05.2016
project #	15015

DT  
**C7.01**



- NOTES:
- CONTRACTOR TO WIDEN EXCAVATION AS REQUIRED TO OBTAIN COMPACTION WITH CONTRACTORS COMPACTION EQUIPMENT.
  - 10 GA STEEL PLATE, BITUMINOUS COATED BASIN AS MANUFACTURED BY GIBSON STEEL, GRATEMASTER OR APPROVED EQUAL.

7 OVERFLOW INLET - TYPE 2  
SCALE: N.T.S.

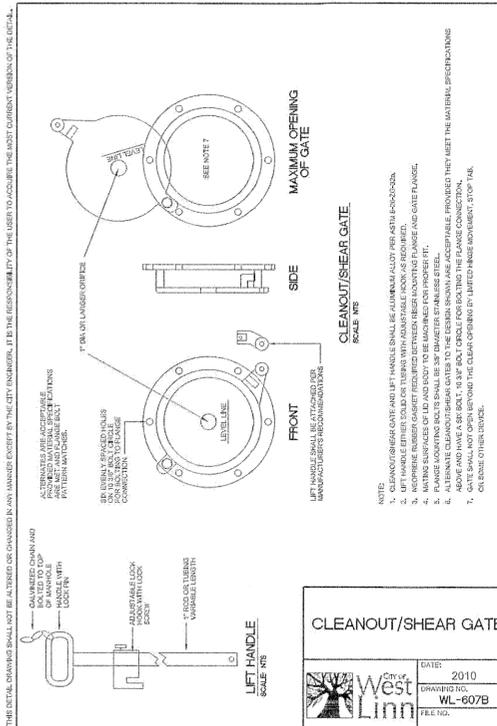


- NOTE:
- USE CONCRETE HAVING A 28 DAY DESIGN STRENGTH OF 3300 PSL.
  - OUTLET WING WALL SHALL BE USED FOR ALL OUTFALL PIPES FROM 10" TO 36".
  - THIS DETAIL REPRESENTS THE MINIMUM REQUIREMENT. THE NEED FOR ADDITIONAL STEEL, A FOOTING AND DRAINAGE BEHIND THE WALL SHALL BE INVESTIGATED BY THE DESIGN ENGINEER.
  - FOR PIPES LARGER THAN 33" OR MULTIPLE PIPE OUTLETS, USE DETAIL WL-812.
  - CONCRETE REINFORCEMENT SHALL CONSIST OF:
    - ADDING A POLY-FIBER MESH TO THE CONCRETE MIX OR
    - USE (2) #4 BARS ABOVE AND BELOW PIPE AND #4 BARS AT 6" O.C. VERTICALLY.

OUTLET HEADWALL  
(FOR OUTLET PIPES OF 10' TO 36")

DATE: 2010  
DRAWING NO: WL-613  
FILE NO:

5 HEADWALL  
SCALE: N.T.S.

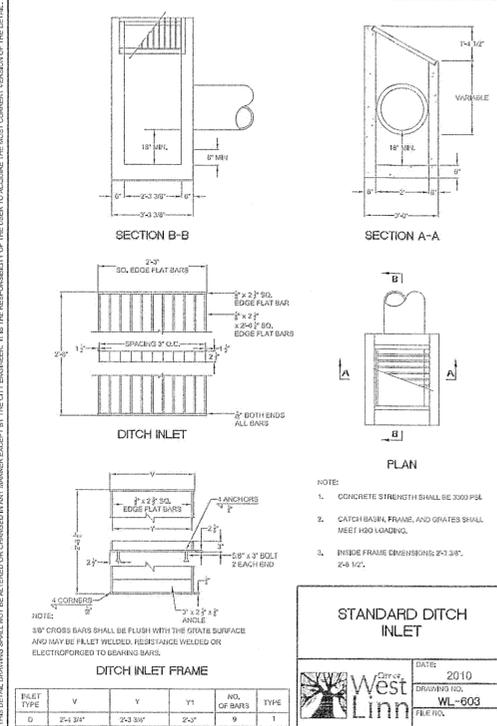


- NOTE:
- CLEANOUT/SHEAR GATE AND LIFT HANDLE SHALL BE ALUMINUM ALLOY PER ASTM B3000-00.
  - INSURE NUMBER GASKET FITTED BETWEEN BASE AND GATE FLANGE.
  - MAINTAIN SURFACE OF LIFT HANDLE TO BE FINISHED FOR PROPER FIT.
  - FLANGE SURFACE SHALL BE FINISHED TO PREVENT CORROSION.
  - ABOVE AND HAVE A 90 DEGREE CHAMFER TO PREVENT THE FLANGE CONNECTION.
  - GATE SHALL NOT OPERATE BEYOND THE CLEAR OPENING BY LIMITED INSE MOVEMENT STOP THE GATE FROM THE CENTER.

CLEANOUT/SHEAR GATE

DATE: 2010  
DRAWING NO: WL-607B  
FILE NO:

3 CLEANOUT/SHEAR GATE  
SCALE: N.T.S.

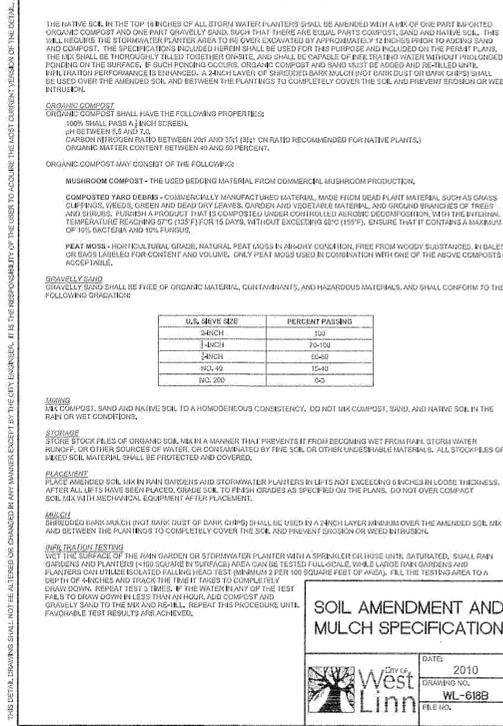


- NOTE:
- CONCRETE STRENGTH SHALL BE 3000 PSL.
  - CATCH BASIN, FRAME, AND GRATES SHALL MEET A900 LONGING.
  - INBDS FRAME DIMENSIONS 24" X 36" X 8" H.

STANDARD DITCH INLET

DATE: 2010  
DRAWING NO: WL-603  
FILE NO:

1 STANDARD DITCH INLET  
TYPE 2  
SCALE: N.T.S.



THE NATIVE SOIL IN THE TOP 18 INCHES OF ALL STORM WATER PLANTERS SHALL BE AMENDED WITH A MIX OF ONE PART IMPORTED ORGANIC COMPOST AND ONE PART GROUND GOLF COURSE SAND THAT HAS BEEN TREATED WITH FORMALDEHYDE. THIS MIX SHALL BE THOROUGHLY MIXED TOGETHER AND SHALL BE CAPABLE OF WITHSTANDING WATER WITHOUT PROLONGED FLOODING ON THE SURFACE. IN SUCH PROLONGED OCCASIONS, ORGANIC COMPOST AND SAND SHALL BE USED AND BLENDED TO IMPROVE PLANTATION PERFORMANCE. A 2 INCH LAYER OF SHREDDED BARK MULCH (NOT BARK DUST OR BARK CHIPS) SHALL BE USED OVER THE AMENDED SOIL AND BETWEEN THE PLANTINGS TO COMPLETELY COVER THE SOIL AND PREVENT EROSION OR WEED INTRUSION.

**ORGANIC COMPOST**  
ORGANIC COMPOST SHALL HAVE THE FOLLOWING PROPERTIES:  
100% SHALL PASS A 1/8 INCH SCREEN.  
PH BETWEEN 5.5 AND 7.0.  
CARBON/NITROGEN RATIO BETWEEN 20:1 AND 30:1 (DE:1 ON RATIO RECOMMENDED FOR NATIVE PLANTS).  
ORGANIC MATTER CONTENT BETWEEN 40 AND 50 PERCENT.

ORGANIC COMPOST MAY CONSIST OF THE FOLLOWING:  
**MUSHROOM COMPOST** - THE USED BEDDING MATERIAL FROM COMMERCIAL MUSHROOM PRODUCTION.  
**COMPOSTED YARD DEBRIS** - COMMERCIALLY MANUFACTURED MATERIAL MADE FROM DEAD PLANT MATERIAL SUCH AS GRASS CUTTINGS, WEEDS, GREEN AND DEAD DRY LEAVES, GROUND AND VEGETABLE MATERIAL, AND LIMB AND BRANCHED OF TREES AND SHRUBS. FINISH A PRODUCT THAT IS COMPOSTED UNDER CONTROLLED AEROBIC DECOMPOSITION, WITH THE INTERNAL TEMPERATURE REACHING 170 TO 180 F FOR 15 DAYS, WITHOUT EXCEEDING 6% NITROGEN, AND THAT IT CONTAINS A MINIMUM OF 10% BACTERIA AND 10% FUNGUS.

**PEAT MOSS** - HORTICULTURAL GRADE, NATURAL PEAT MOSS IN ANY CONDITION, FREE FROM WOODY SUBSTANCES, IN BALETS OR BAGS LABELED FOR CONTENT AND VOLUME. ONE PART MOSS USED IN COMBINATION WITH ONE OF THE ABOVE COMPOSTS IS ACCEPTABLE.

**GRAVELLY SAND**  
GRAVELLY SAND SHALL BE FREE OF ORGANIC MATERIAL, CONTAMINANTS, AND HAZARDOUS MATERIALS, AND SHALL CONFORM TO THE FOLLOWING GRADATIONS:

U.S. SIEVE SIZE	PERCENT PASSING
3/8 INCH	100
1/2 INCH	75-100
3/4 INCH	65-85
1 1/4 INCH	15-40
NO. 200	5-20

**MIXING**  
MIX (COMPOST), SAND AND NATIVE SOIL TO A HOMOGENEOUS CONSISTENCY. DO NOT MIX COMPOST, SAND, AND NATIVE SOIL IN THE RAIN OR WET CONDITIONS.

**STORAGE**  
STORE STOCK PILES OF ORGANIC SOIL MIX IN A MANNER THAT PREVENTS IT FROM BECOMING WET FROM RAIN, STORM WATER RUNOFF, OR OTHER SOURCES OF WATER, OR COVERED BY FINE SOIL, OR OTHER UNDESIRABLE MATERIALS. ALL STOCK PILES OF MIXED SOIL MATERIAL SHALL BE PROTECTED AND COVERED.

**PLACEMENT**  
PLACE AMENDED SOIL MIX IN RAIN DIVERTERS AND STORMWATER PLANTERS IN LIFT NOT EXCEEDING 6 INCHES IN GROSS THICKNESS. AFTER ALL LIFTS HAVE BEEN PLACED, GRADE SOIL TO FINISH GRADES AS SPECIFIED ON THE PLANS. DO NOT OVER COMPACT SOIL MIX WITH MECHANICAL EQUIPMENT AT LIFT PLACEMENT.

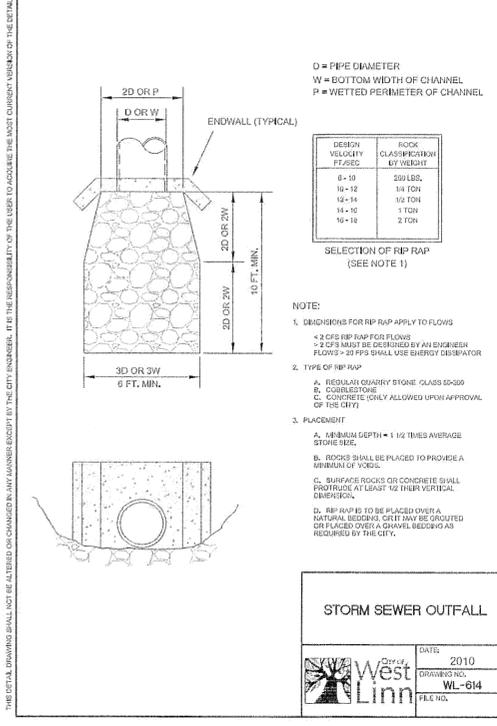
**MULCH**  
SHREDDED BARK MULCH (NOT BARK DUST OR BARK CHIPS) SHALL BE USED IN A 2 INCH LAYER MINIMUM OVER THE AMENDED SOIL MIX AND BETWEEN THE PLANTINGS TO COMPLETELY COVER THE SOIL, AND PREVENT EROSION OR WEED INTRUSION.

**WATER TESTING**  
THE SURFACE OF THE RAIN GARDEN OR STORMWATER PLANTER WITH A SPRINKLER OR HOSE UNTIL SATURATED. SMALL RAIN DIVERTERS AND PLANTERS 18" OR SMALLER IN DIAMETER CAN BE TESTED FULLY. WHILE LARGE RAIN GARDENS AND PLANTERS CAN BE TESTED USING A HEAD TEST (MINIMUM 2' FOR 100 SQUARE FEET OF AREA). FILL THE TEST AREA TO A DEPTH OF 4 INCHES AND TRACE THE TEST TUBES TO COMPLETELY DRAW DOWN. REPEAT TEST 3 TIMES. IF THE WATER TABLE OF THE TEST FAILS TO DRAW DOWN IN LESS THAN AN HOUR, ADD COMPOST AND GRAVELLY SAND TO THE MIX AND REPEAT. REPEAT THE PROCEDURE UNTIL FAVORABLE TEST RESULTS ARE ACHIEVED.

SOIL AMENDMENT AND MULCH SPECIFICATION

DATE: 2010  
DRAWING NO: WL-618B  
FILE NO:

6 SOIL AMENDMENT AND MULCH SPECIFICATION  
SCALE: N.T.S.



D = PIPE DIAMETER  
W = BOTTOM WIDTH OF CHANNEL  
P = WETTED PERIMETER OF CHANNEL

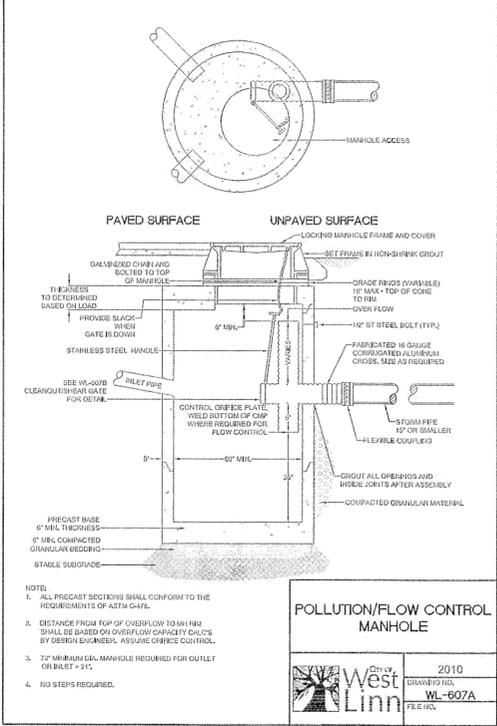
DESIGN VELOCITY FT/SEC	ROCK CLASSIFICATION BY WEIGHT
6-10	20 LBS.
10-12	14 F04
12-14	10 F04
14-16	1 TON
16-18	2 TON

- NOTE:
- DESIGNERS FOR RIP RAP APPLY TO FLOWS < 3 CFS RIP RAP FOR FLOWS > 3 CFS MUST BE DESIGNED BY AN ENGINEER. FLOWS > 25 CFS SHALL USE ENERGY DISSIPATOR.
  - TYPE OF RIP RAP:
    - REGULAR CHALKY STONE CLASS 20-60
    - COBBLESTONE
    - CONCRETE ONLY ALLOWED UPON APPROVAL OF THE CITY.
  - PLACEMENT:
    - MINIMUM DEPTH = 1 1/2 TIMES AVERAGE STONE SIZE.
    - ROCKS SHALL BE PLACED TO PROVIDE A BERRILL OR VOID.
    - SURFACE ROCKS OR CONCRETE SHALL PROTRUDE AT LEAST 1/2" OVER THE SURFACE.
    - RIP RAP IS TO BE PLACED OVER A NATURAL BEDDING. GRIT MAY BE GRADUATED OVER A GRAVEL BEDDING AS REQUIRED BY THE CITY.

STORM SEWER OUTFALL

DATE: 2010  
DRAWING NO: WL-614  
FILE NO:

4 STORM SEWER OUTFALL  
SCALE: N.T.S.



POLLUTION/FLOW CONTROL MANHOLE

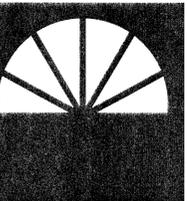
DATE: 2010  
DRAWING NO: WL-607A  
FILE NO:

2 POLLUTION/FLOW CONTROL MANHOLE  
SCALE: N.T.S.

APPROVED FOR CONSTRUCTION BY CITY OF WEST LINN  
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DATE: 7/15/16 BY: [Signature]

- NOTE:
- SEE DETAIL 1/08.03 FOR SPECIFIC ELEVATION AND ORIFICE SIZE DETAILS IN FLOW CONTROL MANHOLE.



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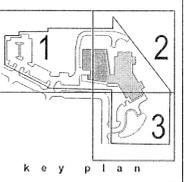
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phase | Conformed Set

date	revisions
June 15, 2016	
07.05.2016	ASI-02

project # | 15015

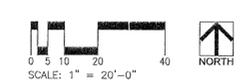
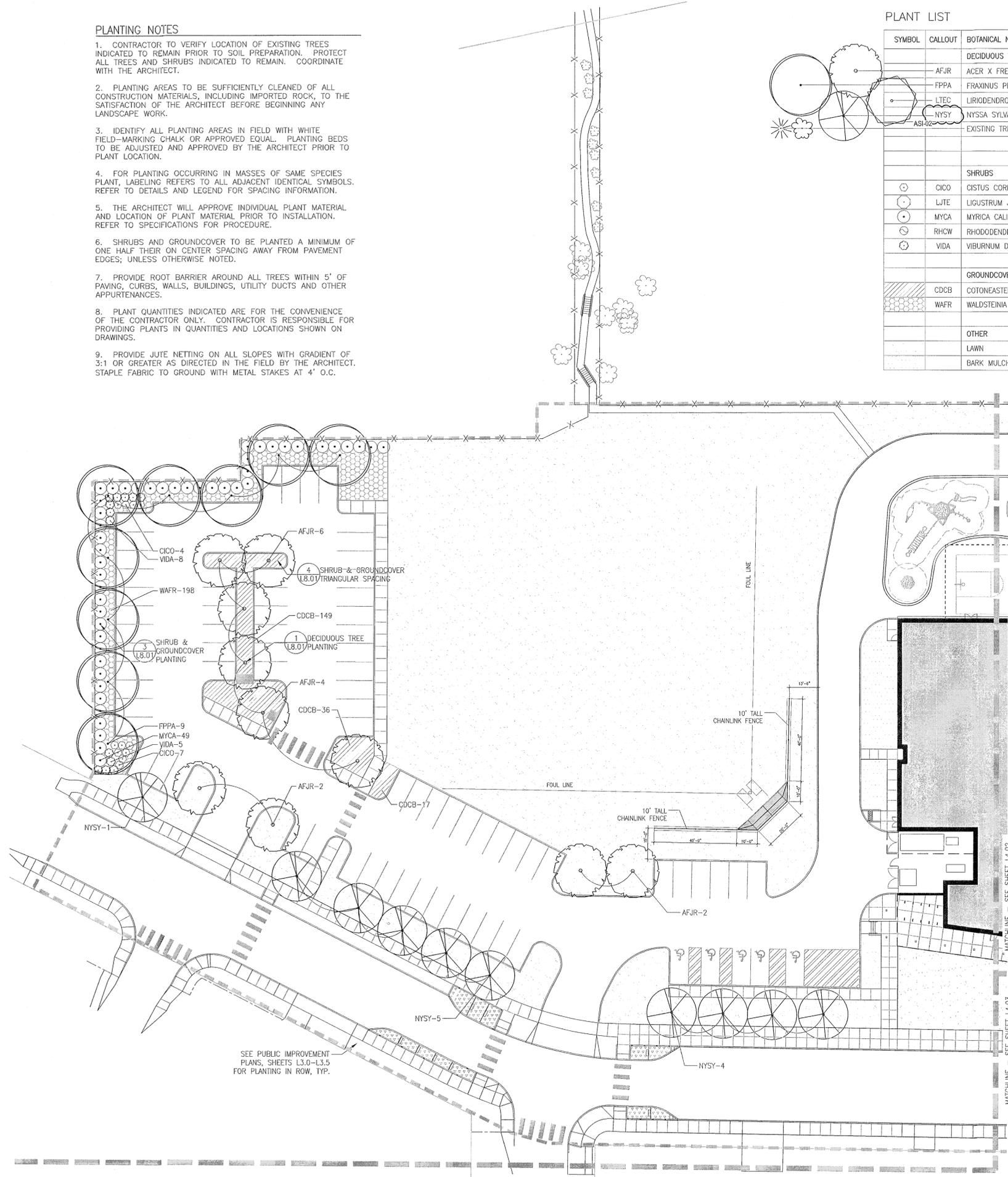
DT  
C7.05

**PLANTING NOTES**

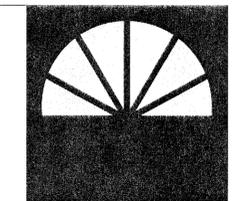
- CONTRACTOR TO VERIFY LOCATION OF EXISTING TREES INDICATED TO REMAIN PRIOR TO SOIL PREPARATION. PROTECT ALL TREES AND SHRUBS INDICATED TO REMAIN. COORDINATE WITH THE ARCHITECT.
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- PROVIDE ROOT BARRIER AROUND ALL TREES WITHIN 5' OF PAVING, CURBS, WALLS, BUILDINGS, UTILITY DUCTS AND OTHER APPURTENANCES.
- PLANT QUANTITIES INDICATED ARE FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. CONTRACTOR IS RESPONSIBLE FOR PROVIDING PLANTS IN QUANTITIES AND LOCATIONS SHOWN ON DRAWINGS.
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**PLANT LIST**

SYMBOL	CALLOUT	BOTANICAL NAME	COMMON NAME	SIZE	COMMENTS
<b>DECIDUOUS TREES</b>					
	AFJR	ACER X FREEMANII 'JEFFERSON RED'	JEFFERSON RED MAPLE	2" CAL.	BRANCHED AT 6'-0"
	FPPA	FRAXINUS PENNSYLVANICA 'PATMORE'	PATMORE ASH	2" CAL.	BRANCHED AT 6'-0"
	LTEC	LIRIODENDRON TULIPIFERA 'EMERALD CITY'	EMERALD CITY TULIP TREE	2" CAL.	BRANCHED AT 6'-0"
	NYSY	NYSSA SYLVATICA	TUPELO	2" CAL.	BRANCHED AT 6'-0"
	ASH-02	EXISTING TREE, REFER TO ARBORIST REPORT			
<b>SHRUBS</b>					
	CICO	CISTUS CORBARIENSIS	WHITE ROCKROSE	#1	
	LJTE	LIGUSTRUM JAPONICUM 'TEXANUM'	WAX-LEAF PRIVET	#5	
	MYCA	MYRICA CALIFORNICA	PACIFIC WAX MYRTLE	#5	
	RHCW	RHODODENDRON 'CUNNINGHAM'S WHITE'	CUNNINGHAM'S WHITE RHODODENDRON	24"-36"	
	VIDA	VIBURNUM DAVIDII	DAVID VIBURNUM	#1	
<b>GROUNDCOVERS/GRASSES/FERNS</b>					
	CDCB	COTONEASTER DAMMERI 'CORAL BEAUTY'	CORAL BEAUTY COTONEASTER	#1	36" O.C. SPACING
	WAFR	WALDSTEINIA FRAGAROIDES	BARREN STRAWBERRY	#1	36" O.C. SPACING
<b>OTHER</b>					
	LAWN	SEE SPECS.			
	BARK MULCH	SEE SPECS.			



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 DATE: 7/15/16 BY: *Klaus O. Bo*



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**dowa** | **IBI GROUP**  
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**WALKER MACY**  
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 PORTLAND, OR 97204  
 503-228-3122

REGISTERED  
 NO. 222  
 • MICHAEL W. ZILUS •  
*Michael W. Zilus*  
 OREGON  
 LANDSCAPE ARCHITECT

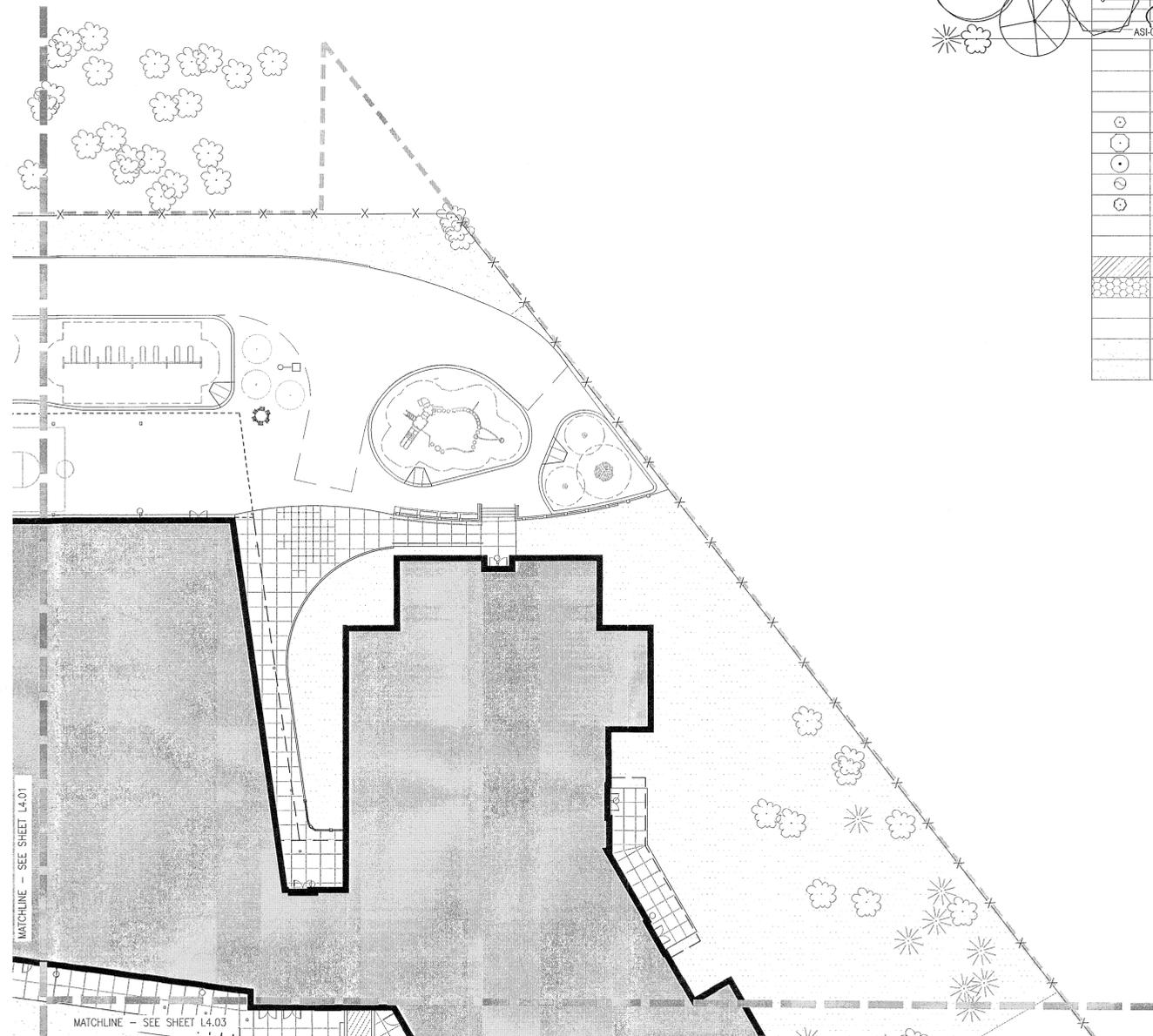
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phase	Conformed Set
date	June 15, 2016
revisions	
ASI-02	07.05.16
project #	15015

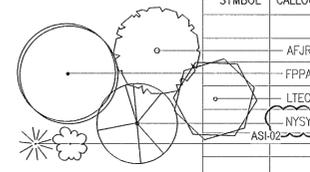
PLANTING PLAN  
 SECTOR 1  
**L4.01**

6/8/2016 11:07:41 AM  
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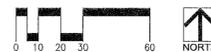
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	LAWN	SEE SPECS.			
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phase | Confirmed Set

date | June 15, 2016

revisions |  
ASI-02 | 07.05.16

project # | 15015

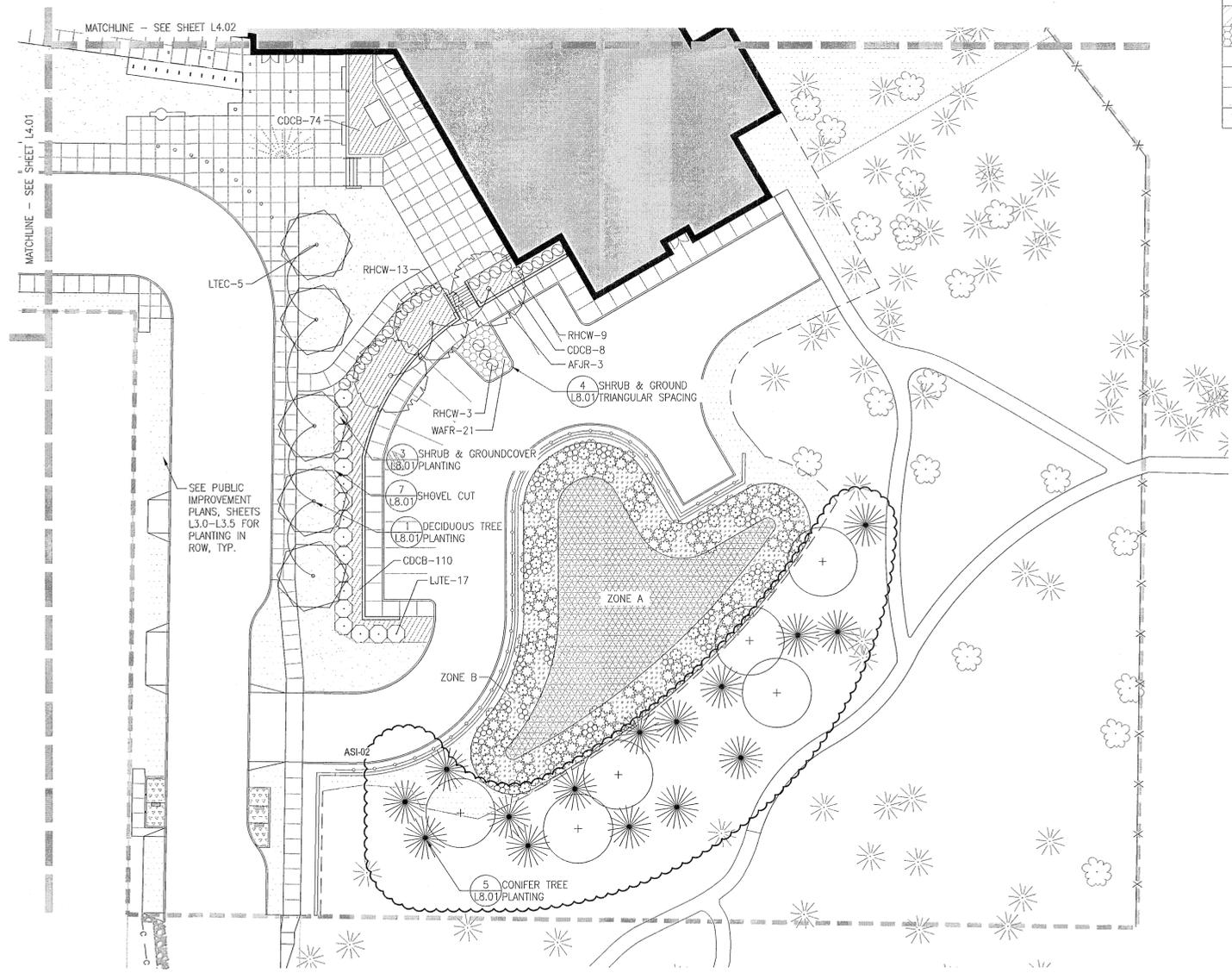
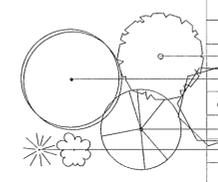
PLANTING  
PLAN  
SECTOR 2

**L4.02**

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DATE: 7/16 BY: *[Signature]*

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ASH-02		EXISTING TREE, REFER TO ARBORIST REPORT			
SHRUBS					
CICO		CISTUS CORBARIENSIS	WHITE ROCKROSE	#1	
LJTE		LIGUSTRUM JAPONICUM 'TEXANUM'	WAX-LEAF PRIVET	#5	
MYCA		MYRICA CALIFORNICA	PACIFIC WAX MYRTLE	#5	
RHCW		RHODODENDRON 'CUNNINGHAM'S WHITE'	CUNNINGHAM'S WHITE RHODODENDRON	24"-36"	
VIDA		VIBURNUM DAVIDII	DAVID VIBURNUM	#1	
GROUNDCOVERS/GRASSES/FERNS					
CDCB		COTONEASTER DAMMERI 'CORAL BEAUTY'	CORAL BEAUTY COTONEASTER	#1	36" O.C. SPACING
WAFR		WALDSTEINIA FRAGAROIDES	BARREN STRAWBERRY	#1	36" O.C. SPACING
OTHER					
		LAWN	SEE SPECS.		
		BARK MULCH	SEE SPECS.		



PLANT LIST: STORMWATER FACILITY

SYMBOL	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	COMMENTS
ZONE A						
	1,982	HERBACEOUS				
	1,981	DESCHAMPSIA CESPITOSA	TUFTED HAIRGRASS	4" POT	12" O.C.	PLANT IN SAME-SPECIES GROUPS OF 75-100 PLANTS PER GROUP
		JUNCUS PATENS	SPREADING RUSH	4" POT	12" O.C.	
ZONE B						
	6	TREES				
		QUERCUS ALBA	WHITE OAK	1 1/2" CAL.	AS SHOWN	
	15	THUJA PLICATA 'HOGAN'	HOGAN WESTERN RED CEDAR	6" HT./B&B	AS SHOWN	
ZONE B						
	100	SHRUBS				
	70	CORNUS SERICEA 'KELSEY'	KELSEY DOGWOOD	1 GAL.	24" O.C.	
	128	MAHONIA AQUIFOLIUM 'COMPACTA'	COMPACT OREGON GRAPE	1 GAL.	36" O.C.	
		SPIRAEA DOUGLASHII	DOUGLAS SPIREA	1 GAL.	48" O.C.	
ZONE B						
	2,976	GROUNDCOVER				
		MAHONIA REPENS	CREeping MAHONIA	4" POT	12" O.C.	
ZONE A						
		SEED				
		PRO TIME PT 406	SEE SPECS.			
ZONE B						
		REGREEN	SEE SPECS.			

STORMWATER FACILITY PLANTING REQUIREMENTS (7,697SF):

ZONE A (3,446 SF):  
115 Herbaceous/100SF = 3,963 Plants

ZONE B (4,251 SF):  
1 Tree/200SF = 21 Trees  
3 Large Shrubs/100SF = 128 Shrubs  
4 Med or Small Shrubs/100SF = 170 Shrubs  
70 Groundcover/100SF = 2,976 Groundcover

PLANTING NOTES

- CONTRACTOR TO VERIFY LOCATION OF EXISTING TREES INDICATED TO REMAIN PRIOR TO SOIL PREPARATION. PROTECT ALL TREES AND SHRUBS INDICATED TO REMAIN. COORDINATE WITH THE ARCHITECT.
- PLANTING AREAS TO BE SUFFICIENTLY CLEANED OF ALL CONSTRUCTION MATERIALS, INCLUDING IMPORTED ROCK, TO THE SATISFACTION OF THE ARCHITECT BEFORE BEGINNING ANY LANDSCAPE WORK.
- IDENTIFY ALL PLANTING AREAS IN FIELD WITH WHITE FIELD-MARKING CHALK OR APPROVED EQUAL. PLANTING BEDS TO BE ADJUSTED AND APPROVED BY THE ARCHITECT PRIOR TO PLANT LOCATION.
- FOR PLANTING OCCURRING IN MASSES OF SAME SPECIES PLANT, LABELING REFERS TO ALL ADJACENT IDENTICAL SYMBOLS. REFER TO DETAILS AND LEGEND FOR SPACING INFORMATION.
- THE ARCHITECT WILL APPROVE INDIVIDUAL PLANT MATERIAL AND LOCATION OF PLANT MATERIAL PRIOR TO INSTALLATION. REFER TO SPECIFICATIONS FOR PROCEDURE.
- SHRUBS AND GROUNDCOVER TO BE PLANTED A MINIMUM OF ONE HALF THEIR ON CENTER SPACING AWAY FROM PAVEMENT EDGES; UNLESS OTHERWISE NOTED.
- PROVIDE ROOT BARRIER AROUND ALL TREES WITHIN 5' OF PAVING, CURBS, WALLS, BUILDINGS, UTILITY DUCTS AND OTHER APPURTENANCES.
- PLANT QUANTITIES INDICATED ARE FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. CONTRACTOR IS RESPONSIBLE FOR PROVIDING PLANTS IN QUANTITIES AND LOCATIONS SHOWN ON DRAWINGS.
- PROVIDE JUTE NETTING ON ALL SLOPES WITH GRADIENT OF 3:1 OR GREATER AS DIRECTED BY THE ARCHITECT. STAPLE FABRIC TO GROUND WITH METAL STAKES AT 4' O.C.

APPROVED FOR CONSTRUCTION BY  
CITY OF WEST LINN  
This approval is only for general conformance with the design concept and general compliance with applicable codes and requirements and shall not be construed as relieving the Design Engineer of full responsibility for accuracy and completeness of the drawings. This plan review approval does not prevent the City from requiring further code corrections in the field.  
DATE: 7/11/16 BY: [Signature]

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phase	Conformed Set
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PLAN  
SECTOR 3  
L4.03