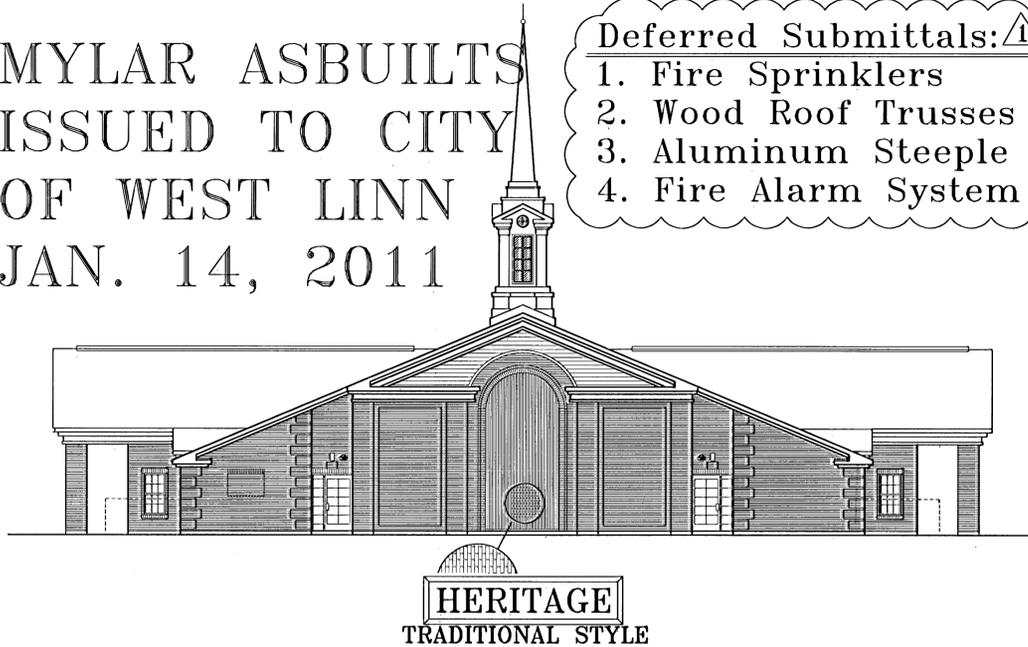


DESIGN CRITERIA	2007 IBC/OSSC
TYPE OF CONSTRUCTION	Y - B
OCCUPANCY	A-3 ASSEMBLY
HEIGHT AS PER CODE	2 STORY, 40'-0"
EARTHQUAKE BASE SHEAR	SEE SHEET S1.0 FOR STRUCTURAL DESIGN CRITERIA
WIND PRESSURE	
ROOF	
DEAD LOAD	
LIVE LOAD	
CEILING FRAMING LIVE LOAD ATTIC AREA	
SOIL BEARING	
CONCRETE	
WINTER DESIGN TEMPERATURE	SEE SHEET M1.1 FOR DESIGN CRITERIA THESE DOCUMENTS HAVE BEEN DESIGNED TO MEET THE VENTILATION REQUIREMENTS OF ASHRAE 62-2001
SUMMER DESIGN CONDITIONS	
VENTILATION	
ELEVATION	680 Feet MSL
ELECTRICAL PHASE	120/208V 3 PHASE
PLUMBING CODE	2003 - INTERNATIONAL PLUMBING CODE
MECHANICAL CODE	2003 - INTERNATIONAL MECHANICAL CODE

MYLAR ASBUILTS  
ISSUED TO CITY  
OF WEST LINN  
JAN. 14, 2011



Deferred Submittals: 1

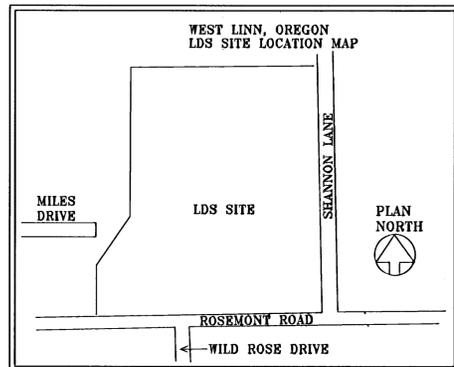
1. Fire Sprinklers
2. Wood Roof Trusses
3. Aluminum Steeple
4. Fire Alarm System

STANDARD SYMBOLS LEGEND

- DETAIL: (A) A1.3 → DETAIL LETTER SHEET NUMBER
- SECTION: (C) C5.9 → SECTION LETTER SHEET NUMBER
- SHEET REFERENCE: (B) TITLE SCALE
- ROOM NUMBER: ROOM 150 → ROOM NAME; 1/16.3 → ROOM NUMBER ENLARGED PLAN
- DOOR DESIGNATION: (D2)
- WINDOW DESIGNATION: (A)
- ELEVATION (VIEW): (B) B2.7 → ELEVATION LETTER SHEET NUMBER
- ELEVATION (DATUM): ELEVATION 100'-0"
- VISUAL DISPLAY BOARDS: (V2)

ARCHITECT & CONSULTANTS McSwain & Woods, AIA (Architectural) Portland 541-269-0618	Lockwood Engineering (Fire Protect) Portland 503-546-0628
WDY, Inc. (Civil) Portland 502-203-8111	Roggenkamp, Erickson & Assoc. (Structural) Vancouver 360-573-4545
Paraclete PS, Inc. (Mechanical) Vancouver 360-254-9234	Carlson Testing, Inc. (Special Inspections) Tigard 503-684-3460
Athay & Associates, Inc. (Electrical) Vancouver 360-574-0199	Andy Paris & Assoc. (Survey) Portland 503-636-3341
LCI, Inc. (Landscape) Eugene 541-484-4591	Sounddesign, Inc (Sound Engineering) Salt Lake City 1-800-332-3315

A New Meetinghouse  
for the  
West Linn Ward  
Lake Oswego OR Stake  
1395 Rosemont Road  
West Linn, Oregon



Architect / Engineer:  
McSwain & Woods  
ARCHITECTS and PLANNERS  
800 North Bagshaw Drive  
Coos Bay, Oregon 97420  
Phone: (541) 269-0618 Fax: (541) 267-4226  
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(see list of registered other projects)

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Portland, Oregon  
STATE OF OREGON  
2281

West Linn Ward  
Lake Oswego OR Stake  
1395 Rosemont Road  
West Linn, Oregon

Project for:  
THE CHURCH OF  
JESUS CHRIST  
OF LATTER-DAY SAINTS

D R A W I N G I N D E X

SHEET NUMBER	SHEET TITLE	SHEET NUMBER	SHEET TITLE	SHEET NUMBER	SHEET TITLE	SHEET NUMBER	SHEET TITLE	SHEET NUMBER	SHEET TITLE
GENERAL		LANDSCAPING		ARCHITECTURAL		PLUMBING		ELECTRICAL	
G1.1	INDEX SHEET COVER SHEET	L1.1	SIGNIFICANT TREE PRESERVATION PLAN	A6.3	ENLARGED RESTROOMS AND CUSTODIAL AREA	P1.1	MAIN FLOOR PLUMBING PLAN	E1.0	ELECTRICAL SITE PLAN
G1.1a	CONDITIONS OF APPROVAL & BIDDER NOTICE	L1.2	PLANTING PLAN	A6.4	ENLARGED SERVING AREA	P1.2	MECHANICAL EQUIPMENT ACCESS PLAN	E1.1	MAIN FLOOR LIGHTING PLAN
G1.2	CODE INFORMATION	L1.3	PLANTING PLAN	A6.5	ENLARGED MATERIAL CENTER	P4.1	ENLARGED PLUMBING PLANS AND PLUMBING RISERS	E1.2	MAIN FLOOR POWER PLAN
CIVIL		L1.4	IRRIGATION PLAN	A6.6	CHAPEL AND MISC. INTERIOR DETAILS	P4.2	PLUMBING SCHEMES	E1.3	UPPER LEVEL ELECTRICAL PLAN
C0.0	EXISTING SITE CONDITIONS <i>Excluded</i>	L1.5	IRRIGATION PLAN	A7.1	MISCELLANEOUS DETAILS	P5.1	PLUMBING DETAILS	E2.1	SCHEDULES
C0.1	SITE DEMOLITION PLAN	L1.6	PLANTING DETAILS	A7.2	MISCELLANEOUS DETAILS	MECHANICAL		E2.2	SCHEDULES, DIAGRAMS AND SINGLE LINE DIAGRAM
C0.2	SITE LAYOUT PLAN <i>Excluded</i>	L1.7	IRRIGATION DETAILS	A7.3	MISCELLANEOUS DETAILS	M1.0	HVAC REFLECTED CEILING PLAN	E2.3	PANEL SCHEDULES
C0.3	SITE KEYNOTE PLAN	L1.8	SWALE PLANTINGS	FURNISHINGS		M1.1	MAIN FLOOR MECHANICAL PLAN	E4.1	MAIN FLOOR ELECTRICAL PLAN AND NOTES - SOUND
C0.4	MECHANICAL ENCLOSURE DETAILS	ARCHITECTURAL		F1.1	FURNISHINGS PLAN AND SCHEDULES	M1.2	MECHANICAL EQUIPMENT ACCESS PLAN	E4.2	MAIN FLOOR REFLECTED CEILING PLAN AND DETAILS - SOUND
C0.5	SITE DETAILS	A1.1	FLOOR PLAN	F2.1	ROSTRUM CASEWORK	M2.1	MECHANICAL SECTIONS	E4.3	SATELLITE DISTRIBUTION SYSTEM
C0.6	SITE DETAILS	A1.2	MECHANICAL ACCESS PLAN	F2.2	ROSTRUM CASEWORK	M5.1	MECHANICAL DETAILS	SOUND	
C1.0	ONSITE CIVIL NOTES AND ABBREVIATIONS	A1.3	WALL TYPES FLOOR PLAN	F3.1	ROOM SIGNAGE LOCATION PLAN	M5.2	MECHANICAL DETAILS	T1.1	SOUND SYSTEM SINGLE LINE AND REMOTE RISER DIAGRAMS
C2.0	ONSITE EROSION CONTROL PLAN	A1.4	WALL TYPES	F3.2	ROOM SIGNAGE SCHEDULE AND DETAILS	M5.3	REFRIGERANT DETAILS AND ISOMETRIC	T1.2	SOUND SYSTEM EQUIPMENT LIST, NOTES AND DETAILS
C2.1	ONSITE UTILITY PLAN	A1.5	ROOF PLAN	STRUCTURAL		M6.1	MECHANICAL SCHEDULES	FIRE SPRINKLER	
C2.2	ONSITE GRADING PLAN <i>Excluded</i>	A1.6	ROOFING DETAILS	S0.1	STRUCTURAL SCHEDULES	M6.2	MECHANICAL SCHEDULES	FS1.1	MAIN FLOOR FIRE SPRINKLER PLAN
C2.3	ONSITE CURB TYPE PLAN	A2.1	EXTERIOR ELEVATIONS	S1.0	SPECIAL INSPECTION & STRUCTURAL OBSERVATION	MECHANICAL ELECTRICAL		FS1.2	UPPER LEVEL FIRE SPRINKLER PLAN
C3.0	ONSITE CIVIL DETAILS	A2.2	EXTERIOR ELEVATIONS	S1.1	FOOTING AND FOUNDATION PLAN	ME1.1	AUTOMATIC TEMPERATURE CONTROL FLOOR PLAN AND DETAILS	FS1.3	UPPER LEVEL, CHAPEL AND CULTURAL CENTER FIRE SPRINKLER PLAN
C3.1	ONSITE CIVIL DETAILS <i>Excluded</i>	A3.1	BUILDING SECTIONS	S1.2	FOOTING SCHEDULE AND CONCRETE DETAILS	ME2.1	AUTOMATIC TEMPERATURE CONTROL WIRING, SCHEDULES	FS2.1	FIRE SPRINKLER SECTIONS
C3.2	ONSITE CIVIL DETAILS	A3.2	BUILDING SECTIONS	S1.3	CONCRETE DETAILS	ME2.2	AUTOMATIC TEMPERATURE CONTROL WIRING	FS3.1	FIRE SPRINKLER DETAILS
C3.3	ONSITE CIVIL DETAILS	A3.3	BUILDING SECTIONS	S1.4	CONCRETE DETAILS	ME2.3	AUTOMATIC TEMPERATURE CONTROL WIRING	FIRE DETECTION	
C3.4	ONSITE CIVIL DETAILS	A3.4	EXTERIOR WALL SECTIONS	S2.1	ROOF FRAMING PLAN	ME2.4	AUTOMATIC TEMPERATURE CONTROL WIRING	FA1.1	FIRE DETECTION / ALARM
CS1.0	PUBLIC IMPROVEMENTS COVER SHEET AND NOTES	A3.5	EXTERIOR WALL SECTIONS	S2.2	ENLARGED FRAMING PLANS	ME2.5	AUTOMATIC TEMPERATURE CONTROL COMMUNICATING SYSTEM		
CS2.0	PUBLIC IMPROVEMENTS NOTES (CONT'D)	A3.6	EXTERIOR WALL SECTIONS	S2.3	CEILING FRAMING PLAN, SCHEDULES AND DETAILS				
CS3.0	ROSEMONT ROAD PLAN AND PROFILE	A3.7	STEEPLE ELEVATION AND SECTIONS	S2.4	FRAMING DETAILS				
CS4.0	SHANNON LANE PLAN AND PROFILE	A4.1	REFLECTED CEILING PLAN	S2.5	FRAMING DETAILS				
CS5.0	MILES DRIVE PLAN	A4.2	MISCELLANEOUS DETAILS	S2.6	FRAMING DETAILS				
CS6.0	PUBLIC IMPROVEMENT DETAILS	A4.3	LIGHT COVE AND CEILING TRIM DETAILS	S2.7	SHEAR WALL ELEVATIONS AND DETAILS				
CS7.0	PUBLIC IMPROVEMENT DETAILS	A4.4	FINISH SCHEDULE	S2.8	STEEPLE BASE FRAMING AND DETAILS				
CS8.0	PUBLIC IMPROVEMENT DETAILS	A5.1	DOOR SCHEDULE AND WINDOW SCHEDULE	S2.9	FRAMING DETAILS				
CS9.0	PUBLIC IMPROVEMENT DETAILS	A5.2	DOOR DETAILS	S2.10	WALL ELEVATIONS				
CS10.0	PUBLIC IMPROVEMENT DETAILS	A5.3	FOLDING PARTITION DETAILS	S2.11	STAIR SECTION AND DETAILS				
		A6.1	ENLARGED ROSTRUM	S3.1	TRUSSED RAFTERS AND TRUSSED BLOCKING				
		A6.2	ENLARGED BISHOP, CLERK AND MOTHER'S ROOM	S3.2	TRUSSED RAFTERS				

3-MAR-08 PER PLAN REVIEW  
Mark Date (as applicable) Description

Project Number:  
563-1459-0801-0201  
Plan Series:  
HER-TRA-98-14  
Property Number:  
563-1459

Sheet Title:  
INDEX SHEET

Sheet:  
G1.1

1/14/2011 11:47 AM P:\LDS\2000\063\ASBL\T\TG01-G1.1.A.DWG

# NOTICE TO BIDDERS:

(& OTHER PLANHOLDERS, BUILDING EXCHANGES, ETC.)

1) ANY SET OF DRAWINGS AND SPECIFICATIONS WITHOUT THIS NOTICE THAT IS IN YOUR POSSESSION SHOULD BE DISCARDED IMMEDIATELY. THE BIDDING SHALL BE BASED ONLY ON SETS OF BIDDING DOCUMENTS WITH THIS NOTICE ON SHEET G0.1 AND THE SPECIFICATION COVER SHEET.

MYLAR ASBUILTS  
ISSUED TO CITY  
OF WEST LINN  
JAN. 14, 2011

A New Meetinghouse  
for the  
West Linn Ward  
Lake Oswego OR Stake  
1395 Rosemont Road  
West Linn, Oregon

## Conditions of Approval

- All public improvements to be in conformance with City of West Linn Design and Construction Standards.
- The applicant shall make a proportional contribution, based on PM peak hour trips generated, towards future signal installation at Salamo/Rosemont/Santa Anita, with the current amount of \$1,071.43/peak hour trip inflation adjusted by ENR CCI at time of building permit issuance.
- The applicant shall install an emergency access from Shannon Lane using the driveway that serves the home of 21615 Shannon Lane. The access to the church parking area shall be by a separate locked gate to the specifications of Tualatin Valley Fire & Rescue. The portion of the common access driveway to be used by fire vehicles shall be widened and surfaced to the specifications of Tualatin Valley Fire & Rescue.
- Prior to commencement of any site clearing or grading, the applicant shall place anchored and secured chain link fencing at the location as shown on the tentative plan to protect all significant trees to be saved on the approved site plan. The city arborist shall inspect and approve this location prior to the start of work. The fencing shall remain in place throughout the development of the site and construction of the homes, to be removed only upon the completion of all construction activity.
- The applicant shall redesign the parking area and driveway access at the southeast corner of the site to preserve four additional Douglas Fir trees in the southeast portion of the site, ranging in diameter from 7 inches to 14 inches, that are proposed to be removed under the current site plan.
- The applicant shall install a fourth fire hydrant if directed to do so by Tualatin Valley Fire & Rescue in a location acceptable to Tualatin Valley Fire & Rescue.
- The applicant shall construct a new emergency access between Rosemont Road and Miles Drive, twenty feet wide, with a paved surface, and a locked gate to the specifications of Tualatin Valley Fire & Rescue. The emergency access shall also serve as a pedestrian access route between Miles Drive and Rosemont Road, and the applicant shall dedicate as easement for pedestrian use over the emergency access road between Miles and Rosemont Road, and shall be designed to allow school bus turnarounds as determined by the West Linn-Wilsonville School District.
- The underground storm water detention and treatment facility shall be private and shall meet City design standards. The applicant shall execute a maintenance agreement that provides for proper operation of the storm water system, requires annual reports to the city regarding ongoing maintenance and operation of the facility, requires professional certification that the facility is operating to city-prescribed standards, allows for city inspection of the facility upon reasonable notice, and requires and guarantees improvements or repair of the system as directed by the City Engineer of Public Works Operations Manager.
- The applicant shall make a payment of \$75,000 to the City of West Linn for placement within a special fund to be used to make traffic or street improvements on Rosemont Road between Salamo Road and Shannon Lane or improvements to increase parking capacity of the Oppenlander Field site. The only purpose of such improvements shall be the mitigation of traffic safety issues related to the construction of the applicant's proposed facility. Any money remaining in the special fund after ten years from the date of final city approval of this application shall be returned to the applicant, or the applicant's successor in interest in ownership of the property subject to this application.
- The applicant shall offer to enter into a non-compensatory agreement with the owner of the Oppenlander Field property to allow Oppenlander Field users to park in the applicant's parking lot Monday through Saturday during daylight hours, with reasonable limitations on disruptive or inappropriate conduct, provisions ensuring the applicant's continues control over activities objectionable to the applicant within the parking lot, and provisions holding the church harmless for risks to persons or property from such usage.
- The applicant shall not allow overlapping use of the buildings or grounds by more than one congregation at any time as long as two congregations are using the facility. If and when the applicant determines to have the facility used by three congregations, the applicant shall notify the city of such intent and shall conduct a study, of one year duration, of the parking impacts of the overlapping usage, with information collected relating to parking lot usage on Sundays and any parking spill-over onto nearby residential streets. Based upon results of this study, the City Planning Director shall determine any appropriate mitigation measures for parking overflow issues. The applicant shall then promptly implement such measures. The applicant and any affected party shall have the option, as with determination of the City Planning Director, of appealing the Director's decision to the West Linn City Council.

Architect / Engineer:

**MC SWAIN & WOODS**  
ARCHITECTS and PLANNERS  
800 North Bayshore Drive  
Cove Bay, Oregon 97420  
Phone: (541) 299-0618 Fax: (541) 297-4226  
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West Linn Ward  
Lake Oswego OR Stake  
Rosemont Road & Shannon Lane  
West Linn, Oregon

Project for:  
THE CHURCH OF  
**JESUS CHRIST**  
OF LATTER-DAY SAINTS

Mark	Date (m-d-y)	Description
3-MAR-08		PER PLAN REVIEW

Project Number:  
563-1459-0801-0201  
Plan Series:  
HER-TRA-98-14  
Property Number:  
563-1459

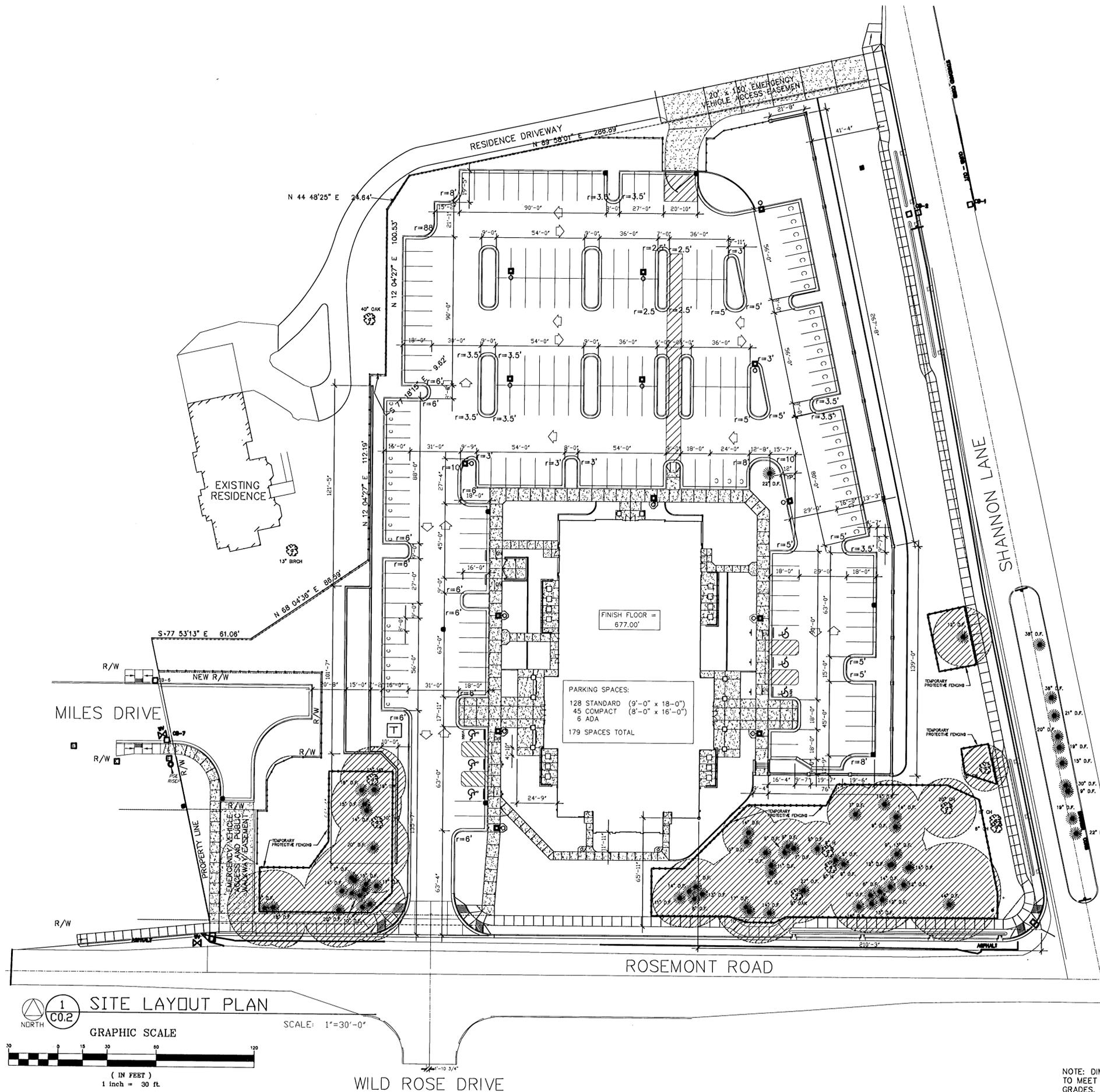
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**CONDITIONS  
OF  
APPROVAL**

Sheet:  
**G1.1a**

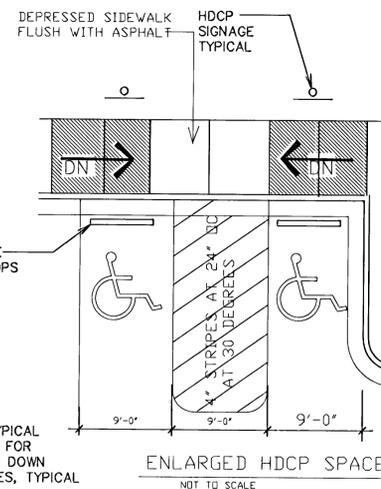


**SITE LAYOUT PLAN NOTES:**

1. NEW PROPERTY LINE BETWEEN RESIDENCE AND CHURCH BY ANDY PARIS AND ASSOCIATES, SURVEYORS. THIS FIRM IS TO BE RETAINED FOR FIELD STAKING, BUILDING LAYOUT AND SITE DIMENSIONING VERIFICATION OF SITE ELEMENTS.



NOTE:  
ARROWS ARE INFORMATIONAL AND  
ARE NOT TO BE PAINTED ON ASPHALT



NOTE: DIMENSIONS SHOWN ARE TYPICAL TO MEET ADA. SEE CIVIL SHEETS FOR GRADES. SIDEWALKS ARE SLOPED DOWN TO CONCRETE PARKING LOT GRADES, TYPICAL

Architect / Engineer:  
**MC SWAIN & WOODS ARCHITECTS and PLANNERS**  
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**REGISTERED ARCHITECT**  
LONGLEY F. MC SWAIN  
Portland, OR  
PORTLAND, OREGON  
2281  
STATE OF OREGON

Project for:  
**West Linn Ward  
Lake Oswego OR Stake**  
1395 Rosemont Road  
West Linn, Oregon

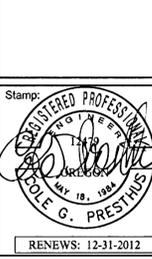
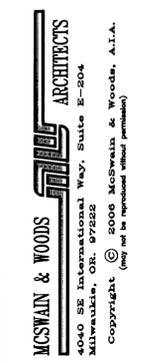
Project for:  
**THE CHURCH OF  
JESUS CHRIST  
OF LATTER-DAY SAINTS**

Project Number:  
563-1459-0801-0201  
Plan Series:  
HER-TRA-98-14  
Property Number:  
563-1459

Sheet Title:  
**SITE LAYOUT PLAN**

Sheet:  
**C0.2**

2/17/2011 2:09 PM P:\LDS\2000\0663\COND\ CIVL 0063-CO.2.DWG



RENEWS: 12-31-2012

West Linn Ward  
Lake Oswego OR Stake  
Rosemont Road & Shannon Lane  
West Linn, Oregon

Project for:  
THE CHURCH OF  
JESUS CHRIST  
OF LATTER-DAY SAINTS

Table with 2 columns: Mark, Description. Contains project identification and revision information.

Project Number:  
583-1459-0801-0201  
Plan Series:  
HER-TRA-98-14  
Property Number:  
583-1459

Sheet Title:

ONSITE  
UTILITY  
PLAN  
AS-BUILTS

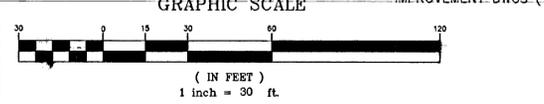
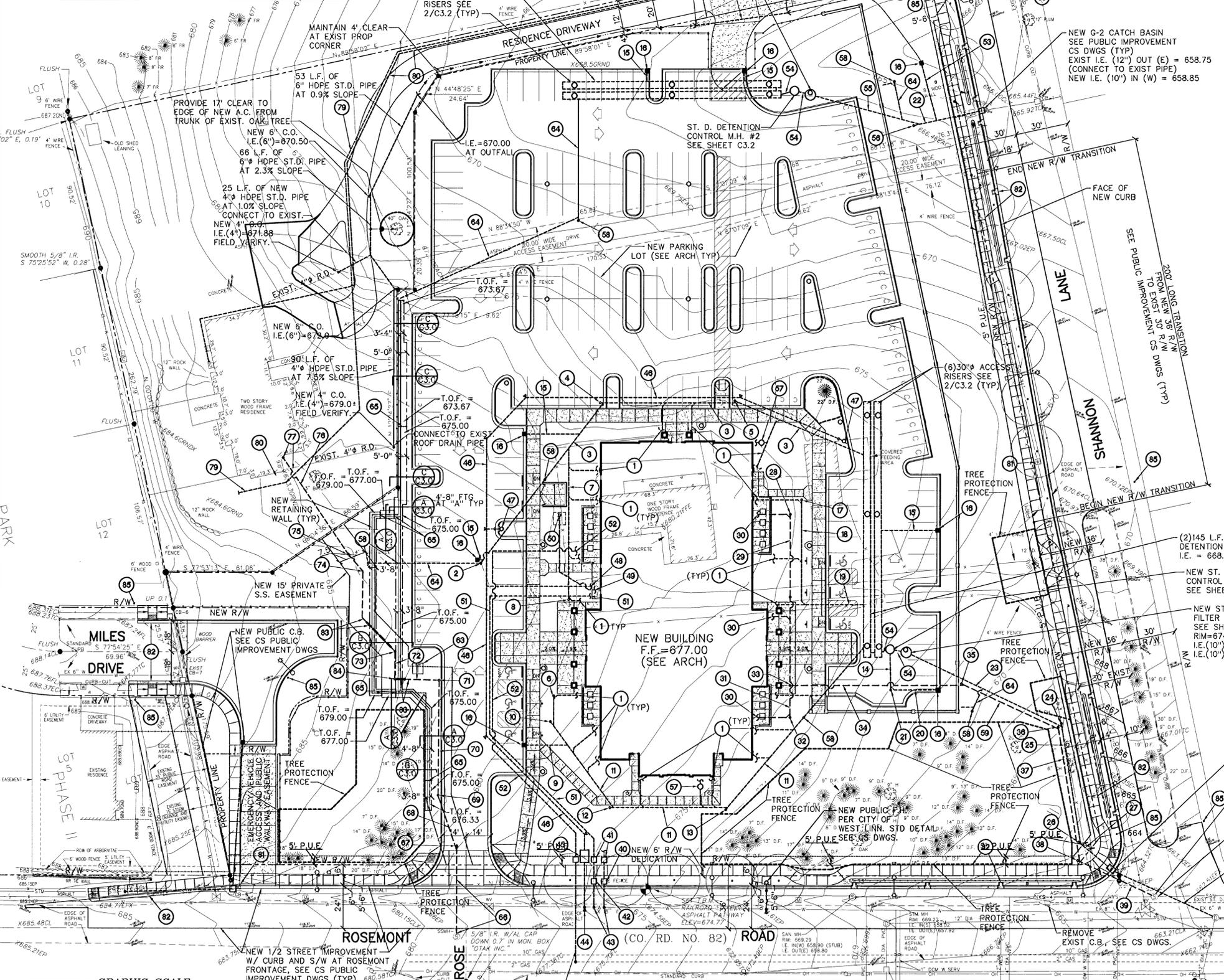
Sheet:

C2.1

KEYNOTES FOR THIS SHEET

Table with 2 columns: MARK - DESCRIPTION, MARK - DESCRIPTION. Lists 85 keynotes detailing utility specifications and construction notes.

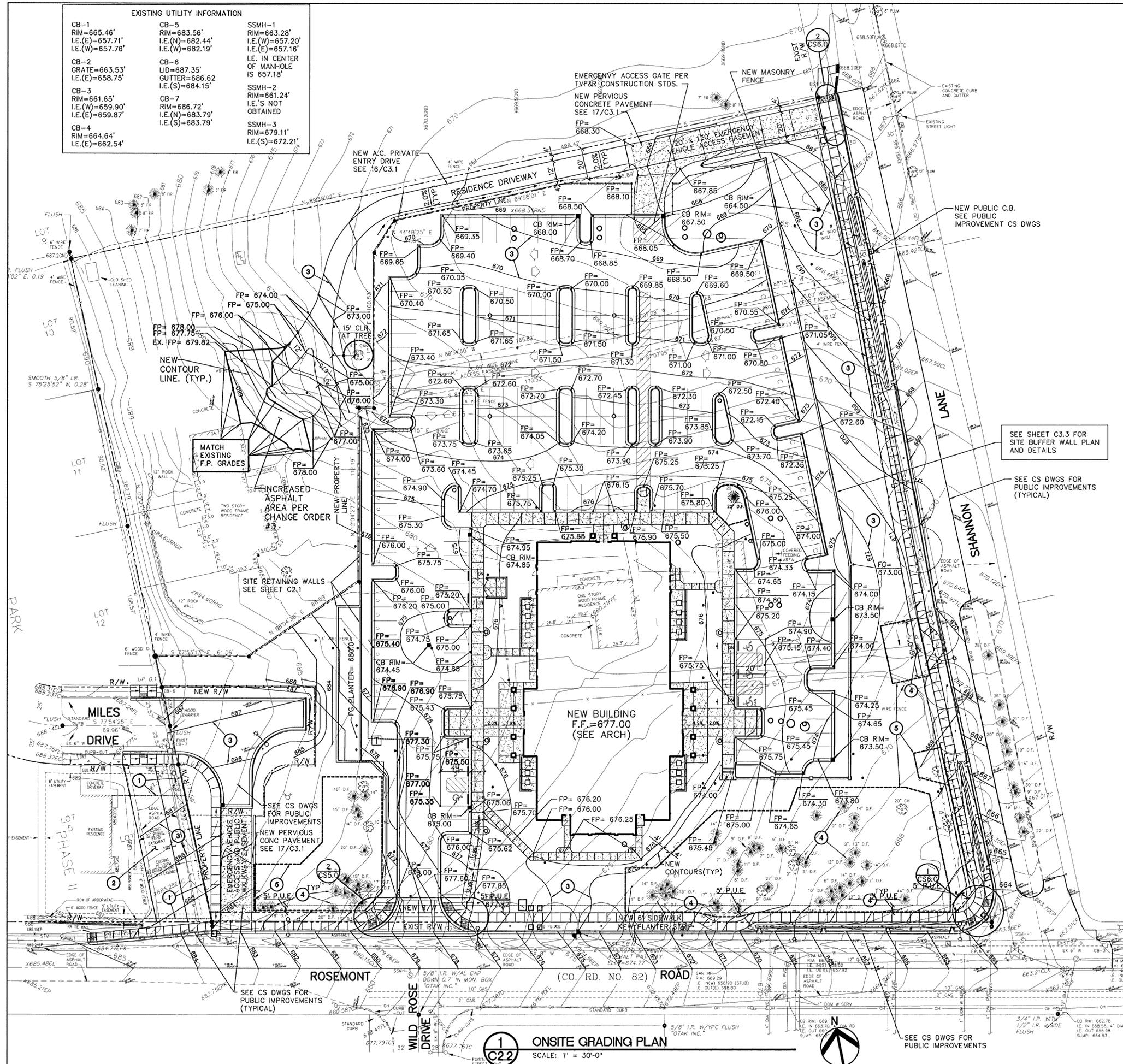
EXISTING UTILITY INFORMATION table listing various utility lines (CB-1 to CB-5, SSMH-1 to SSMH-3) with their respective elevations and locations.



1 C2.1 ONSITE UTILITY PLAN SCALE: 1" = 30'-0"

**EXISTING UTILITY INFORMATION**

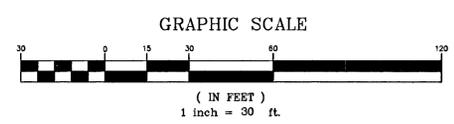
CB-1 RIM=665.46' I.E.(E)=657.71' I.E.(W)=657.76'	CB-5 RIM=683.56' I.E.(N)=682.44' I.E.(W)=682.19'	SSMH-1 RIM=663.28' I.E.(W)=657.20' I.E.(E)=657.16'
CB-2 GRATE=663.53' I.E.(E)=658.75'	CB-6 LID=687.35' GUTTER=686.62 I.E.(S)=684.15'	SSMH-2 RIM=661.24' I.E.'S NOT OBTAINED
CB-3 RIM=661.65' I.E.(W)=659.90' I.E.(E)=659.87'	CB-7 RIM=686.72' I.E.(N)=683.79' I.E.(S)=683.79'	SSMH-3 RIM=679.11' I.E.(S)=672.21'
CB-4 RIM=664.64' I.E.(E)=662.54'		



- GRADING NOTES:**
- PROJECT GEOTECHNICAL ENGINEER TO APPROVE SOURCE OF ALL STRUCTURAL BACKFILL MATERIAL BEFORE IT IS BROUGHT ONTO THE SITE. CONTRACTOR PROVIDE SUBMITTAL ON ALL PROPOSED FILL SOURCES. SEE SHEET C1.0 FOR REQUIRED INSPECTIONS.
  - REFER TO ARCHITECTURAL SITE PLANS FOR ALL SITE LAYOUT DIMENSIONS INCLUDING WALKWAYS. PROVIDE EXPANSION JOINTS AT ALL WALKWAY AND SIDEWALK INTERSECTIONS AND CORNERS. MATCH SIDEWALK JOINTS WITH CURB JOINTS.
  - PROVIDE SEPARATE BID ADDITIVES 'A' AND 'B' RESPECTIVELY FOR WET WEATHER CONSTRUCTION OVER-EXCAVATION OF SUBGRADE AND REPLACEMENT WITH CRUSHED ROCK. PROVIDE FOR A 2 FOOT THICK OVER-EXCAVATION AND REPLACEMENT OF NATIVE SOIL UNDER THE BUILDING FOOTPRINT (EXTEND TO 5 FEET BEYOND OUTSIDE OF FOOTING) AND A 9 INCH THICK OVER-EXCAVATION AND REPLACEMENT UNDER ALL PARKING LOT AREAS (EXTEND 2 FEET BEYOND CURBS).
  - ON-SITE HANDICAP/DISABILITY ACCESS ROUTES SHALL COMPLY WITH THE AMERICANS WITH DISABILITIES ACT (ADA), STATE AND LOCAL REGULATIONS. IN GENERAL:
    - MAXIMUM CROSS SLOPE OF ANY PAVEMENT PERPENDICULAR TO DIRECTION OF TRAVEL IS 2.0%.
    - MAXIMUM SLOPE OF WALKWAYS IN DIRECTION OF TRAVEL IS 5.0%.
    - FOR RAMP, THE MAXIMUM SLOPE IS 8.33% AND MAXIMUM RISE BETWEEN LANDINGS IS 30 INCHES. HANDRAILS ARE REQUIRED EACH SIDE OF ALL RAMP WITH SLOPE GREATER THAN 5%.
    - MAXIMUM SLOPE OF CURB RAMP AND WINGS OF CURB RAMP IS 8.33%. THE MAXIMUM LENGTH OF A CURB RAMP IS 6 FEET.
    - PROVIDE FINISH PAVEMENT SURFACE TEXTURES IN ACCORDANCE WITH ADA.
    - CONTACT ARCHITECT AND ENGINEER FOR INSTRUCTIONS PRIOR TO INSTALLING FINISH PAVEMENTS IN CONFLICT WITH ADA REQUIREMENTS.
  - STRAIGHT GRADE FINISH PAVEMENT AND TOP OF CURB ELEVATIONS BETWEEN GIVEN ELEVATION POINTS. BLEND FINISH GRADES AT GRADE BREAKS.
  - SEE SHEET C1.0 FOR CONSTRUCTION INSPECTIONS AND OBSERVATIONS.

- KEYNOTES FOR THIS SHEET**
- MARK - DESCRIPTION**
- NEW WOOD FENCE FOR PRIVATE RESIDENCE. PROVIDE (1) 3' WIDE SPRING-LOADED, GATE AT LOCATION PER HOME OWNER, SEE SHEET C0.3.
  - REMOVE EXIST 26" x 120" PUBLIC CONNECTION DRIVE FROM PRIVATE PROPERTY INCLUDING ALL PAVEMENT AND BASE ROCK. PROVIDE NEW TOPSOIL FILL AND FINISH GRADING TO NEW CONTOUR LINE ELEVATIONS AS SHOWN. PLACE AND COMPACT TOPSOIL TO NEW FINISH GRADE LINES PER PROJECT DOCUMENTS. COORDINATE WITH HOME OWNER.
  - NEW FINISH CONTOUR GRADING LINES. (TYP)
  - PROTECT EXISTING TREES TO REMAIN, SEE SHT C2.0 AND L1.1, COORDINATE WITH CITY ARBORIST. (TYP)
  - TREE PROTECTION FENCE, SEE CITY DETAIL WL-219, SHT C3.0.

THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION COLLECTED IN THE FIELD BY WDY AND ALSO INFORMATION PROVIDED BY THE GENERAL CONTRACTOR FOR AS-BUILT UTILITY LOCATION CHANGES AS NOTED WITHIN THIS PLAN SET. WDY HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF ALL THE INFORMATION PROVIDED BY THE GENERAL CONTRACTOR AND SHALL NOT BE RESPONSIBLE FOR ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.



**1 ONSITE GRADING PLAN**  
SCALE: 1" = 30'-0"

Architect / Engineer:  
**MCSWAIN & WOODS ARCHITECTS**  
4040 SE International Way, Suite B-204  
Marvada, OR 97222  
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Stamp:  
**REGISTERED PROFESSIONAL ENGINEER**  
**COLE G. PRESTIUS**  
MAY 18, 1988  
RENEWALS: 12-31-2012

Project for:  
**West Linn Ward  
Lake Oswego OR Stake**  
Rosemont Road & Shannon Lane  
West Linn, Oregon

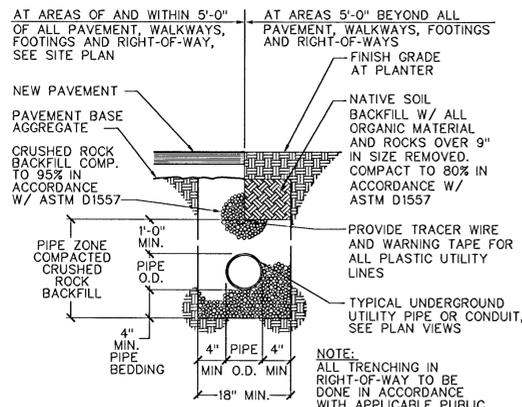
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Property Number:  
563-1459

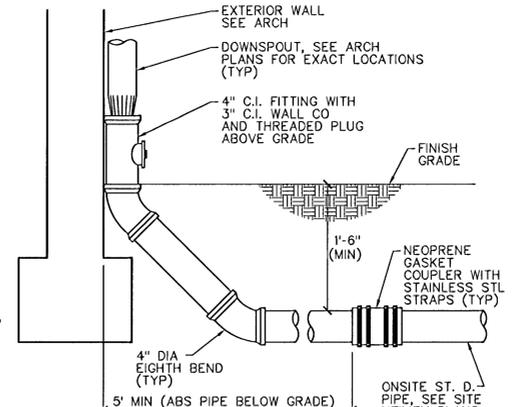
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**ONSITE GRADING PLAN**

Sheet:  
**C2.2**

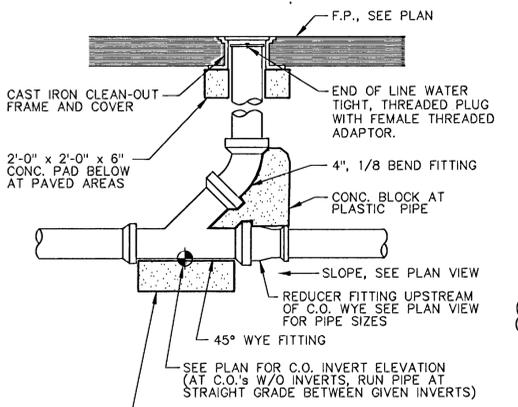
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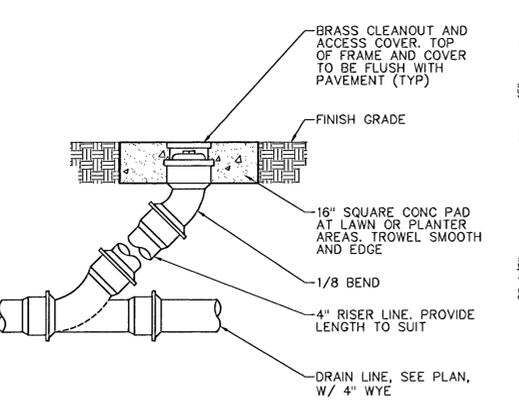
**1 TYP. UTILITY TRENCH SECTION**  
1" = 1'-0"



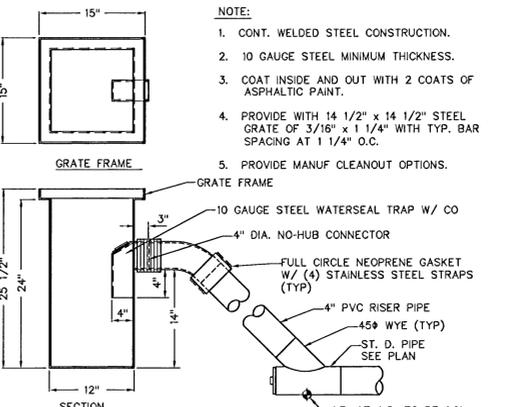
**2 TYPICAL DOWN SPOUT CONNECTION**  
N.T.S.



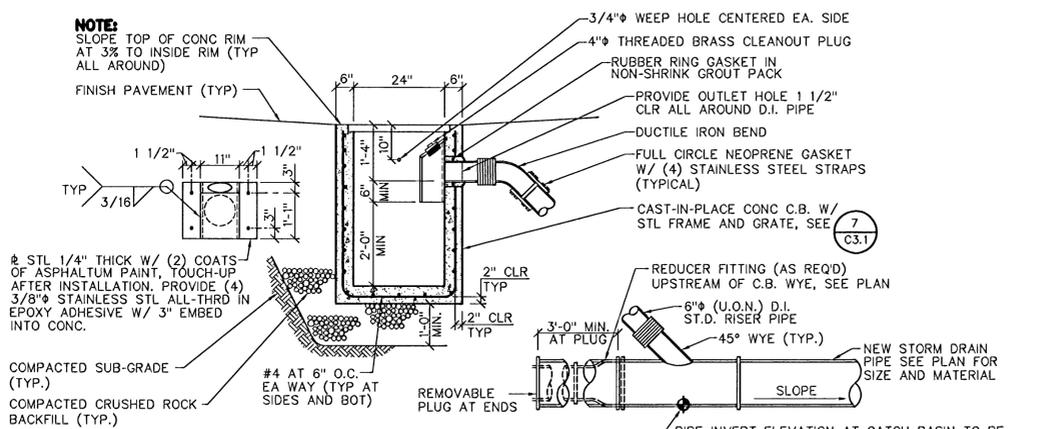
**3 TYP. CLEAN OUT AT VEHICLE PAVEMENT AREAS**  
N.T.S.



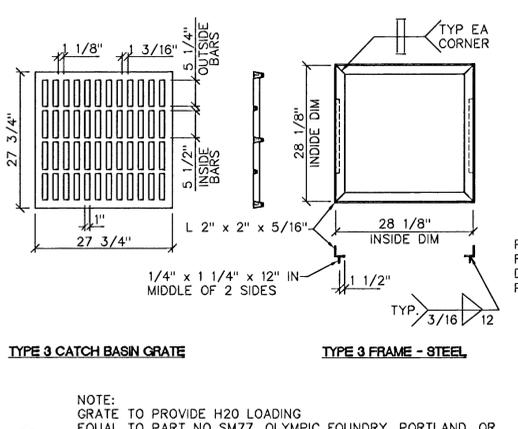
**4 CLEANOUT AT WALKS, ADA ROUTES AND LAWN AREAS**  
1" = 1'-0"



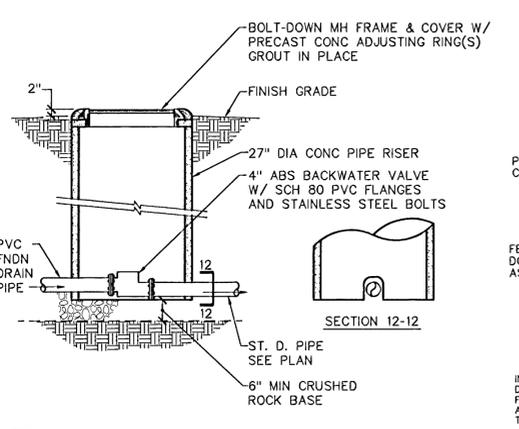
**5 LANDSCAPE AREA DRAIN**  
N.T.S.



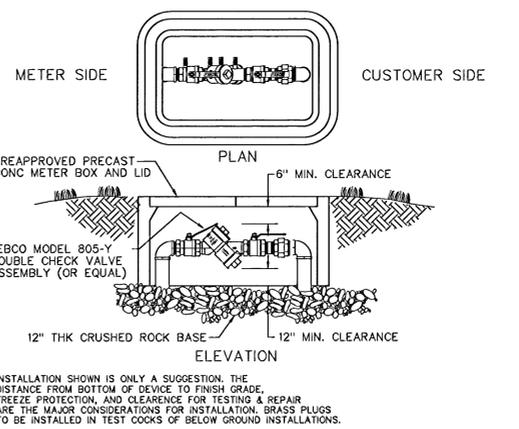
**6 TYPICAL ON-SITE CONC. CATCH BASIN**  
N.T.S.



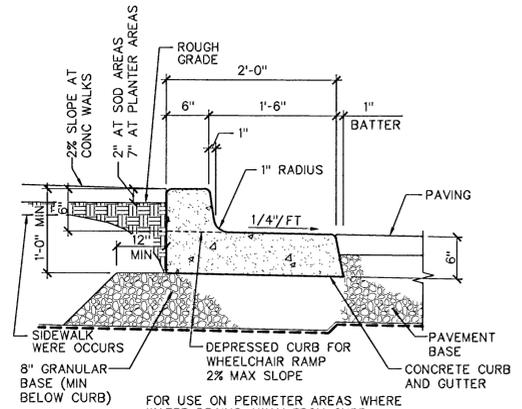
**7 CAST IRON GRATE-CAST CONCRETE CATCH BASIN**  
REF: SIM AWWA STD DETAIL #305B



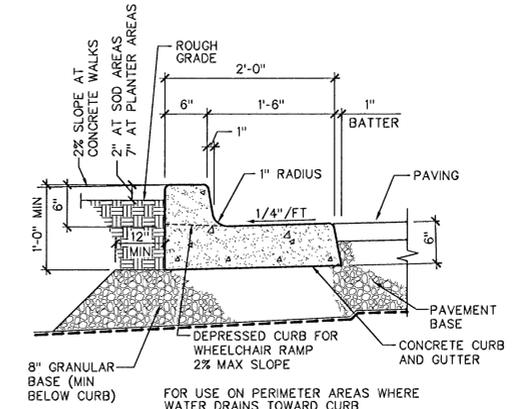
**8 BACKWATER VALVE AND BOX ASSEMBLY**  
1/2" = 1'-0"



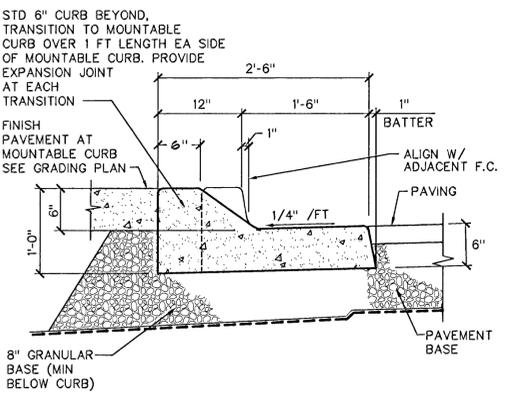
**9 1 1/2\", 2\", 2 1/2\"/>**



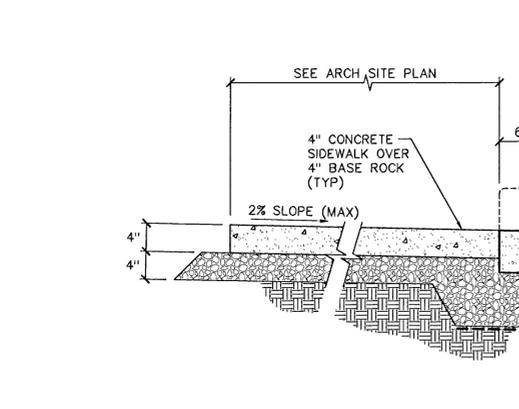
**10 CURB AND GUTTER DETAIL**  
1" = 1'-0"



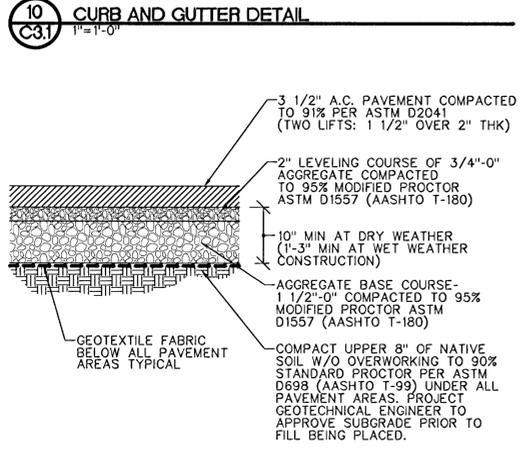
**11 CURB AND GUTTER DETAIL**  
1" = 1'-0"



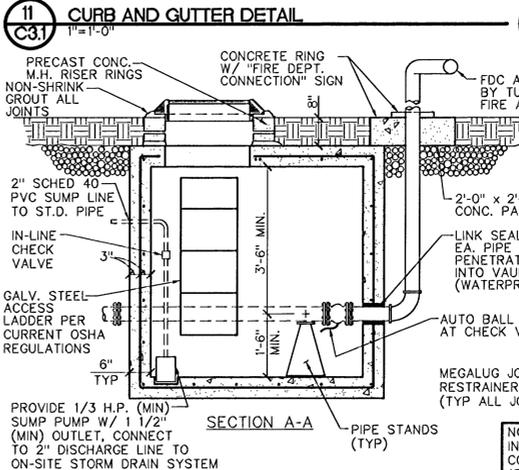
**12 ONSITE MOUNTABLE CURB AND GUTTER DETAIL**  
1" = 1'-0"



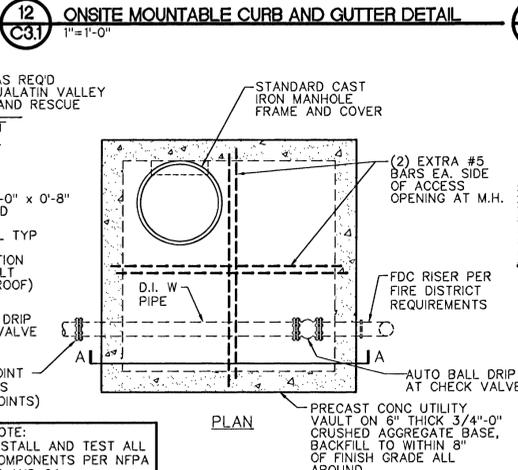
**13 DEPRESSED CURB AND GUTTER DETAIL**  
1" = 1'-0"



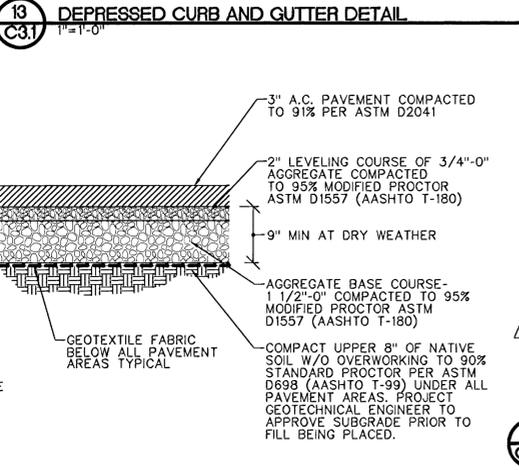
**14 TYP. VEHICULAR ASPHALTIC PAVEMENT SECTION**  
1" = 1'-0"



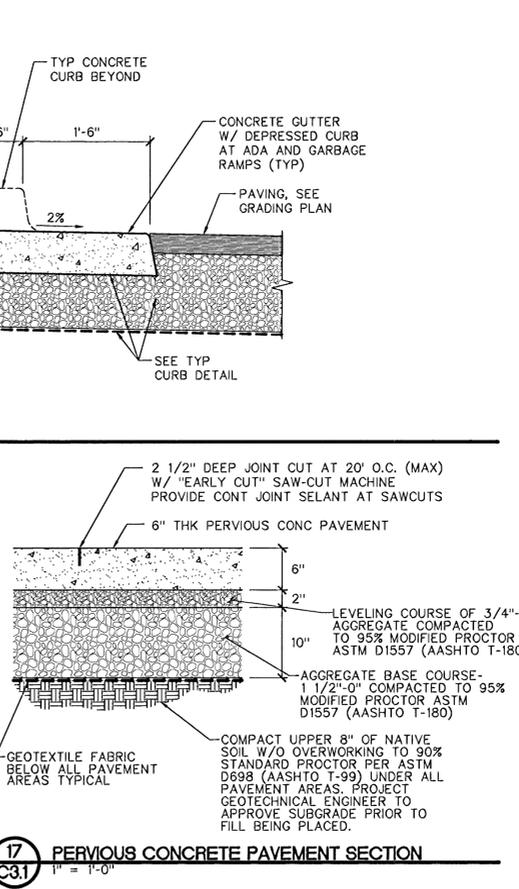
**15 FIRE DEPT. CONNECTION VAULT**  
1/2" = 1'-0"



**16 RESIDENTIAL A.C. DRIVEWAY SECTION**  
1" = 1'-0"



**17 PERVIOUS CONCRETE PAVEMENT SECTION**  
1" = 1'-0"



**18 PERVIOUS CONCRETE PAVEMENT SECTION**  
1" = 1'-0"

Architect / Engineer:  
**MCWAIN & WOODS ARCHITECTS**  
4040 SE International Way, Suite E-204  
Milwaukie, OR 97222  
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Stamp:  
**REGISTERED PROFESSIONAL**  
**SCOTT G. PRESTIUS**  
MAY 12, 1984  
RENEWALS: 12-31-2012

Project for:  
**West Linn Ward**  
**Lake Oswego OR Stake**  
Rosemont Road & Shannon Lane  
West Linn, Oregon

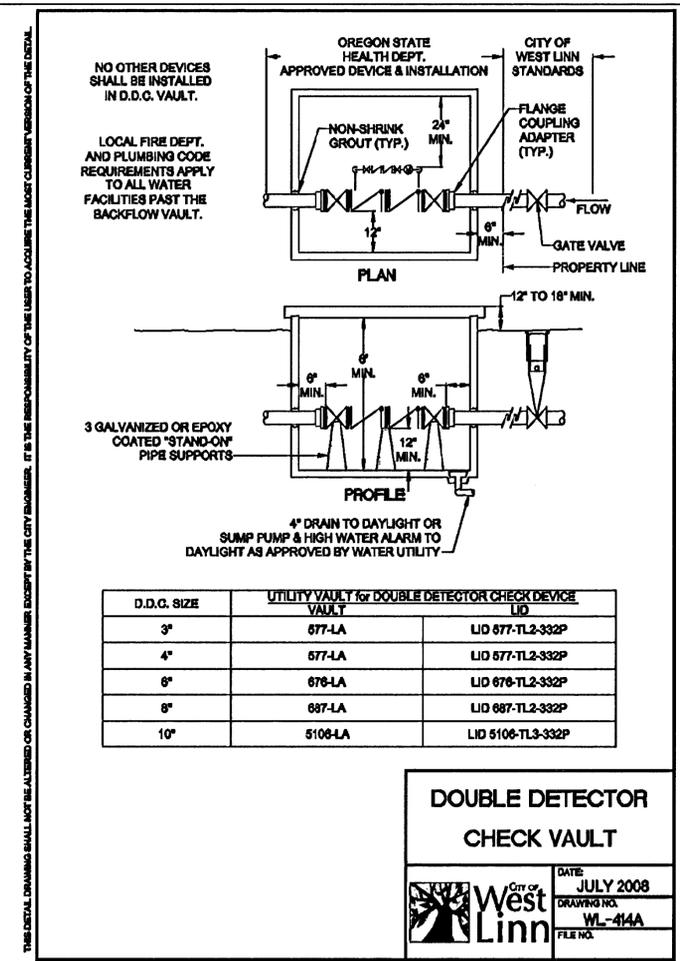
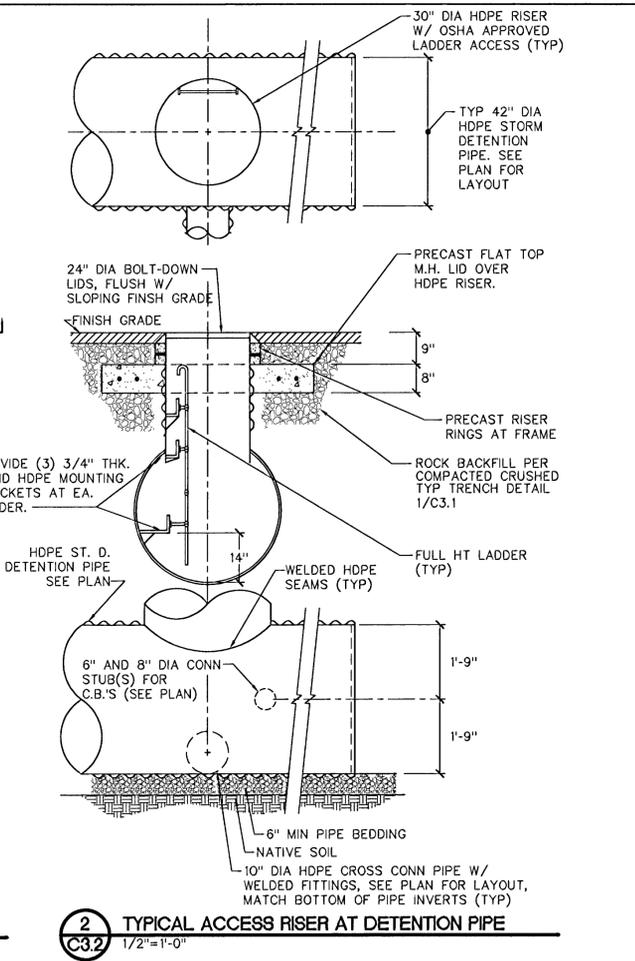
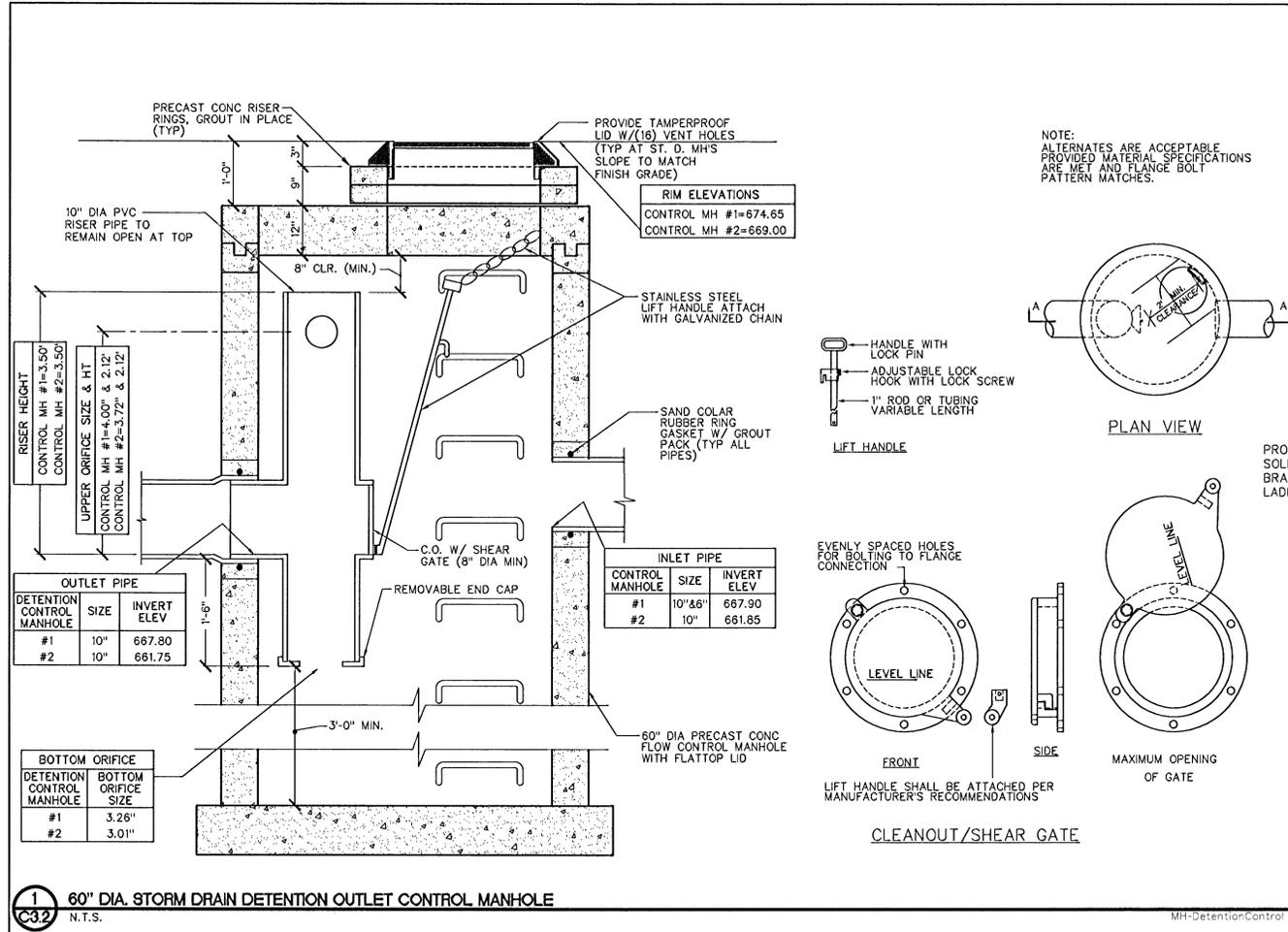
Project for:  
**THE CHURCH OF**  
**JESUS CHRIST**  
**OF LATTER-DAY SAINTS**

Date	Description
12-20-2010	AS-BUILTS

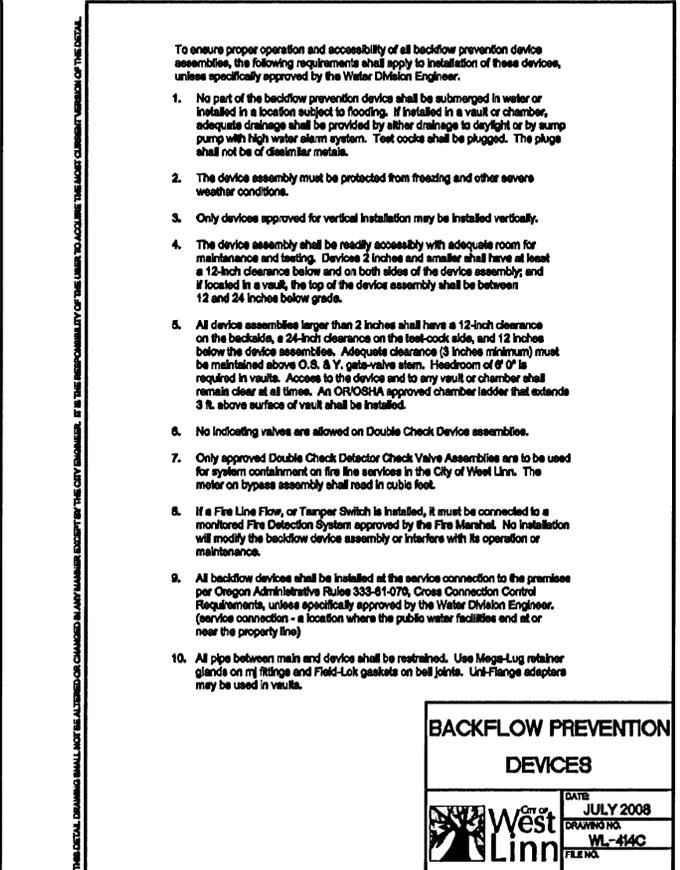
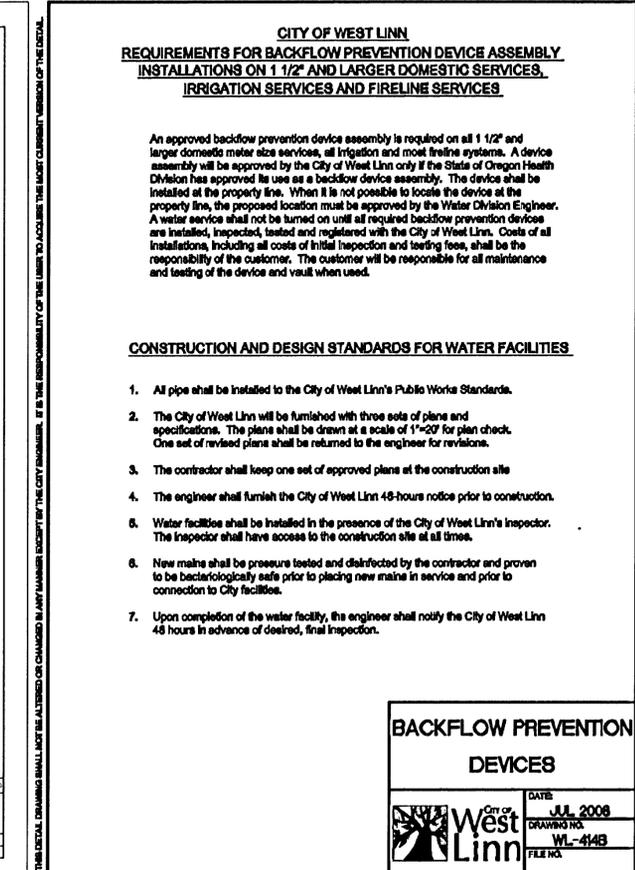
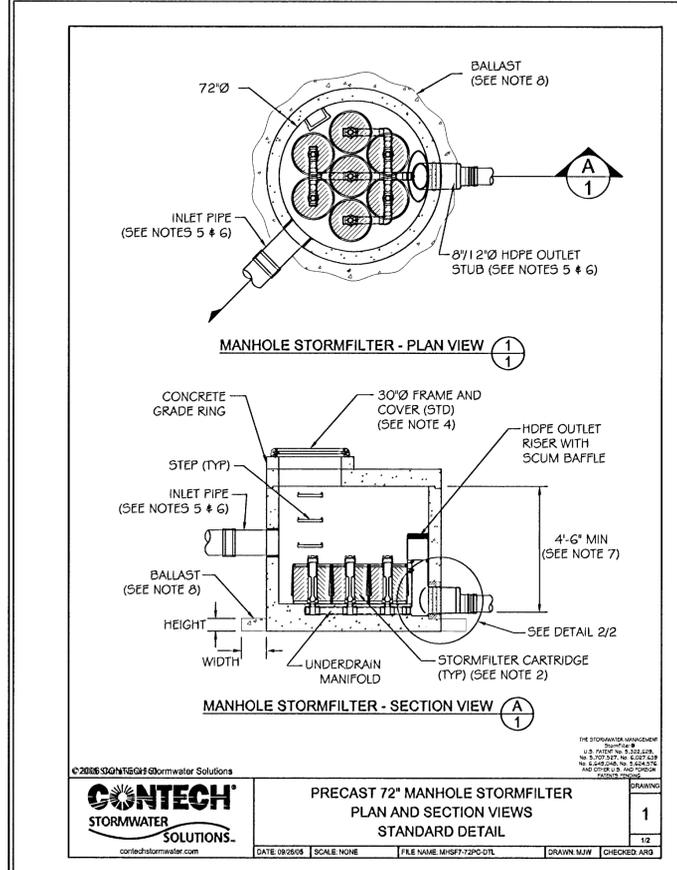
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**563-1459-0801-0201**  
Plan Series:  
**HER-TRA-98-14**  
Property Number:  
**563-1459**

Sheet Title:  
**ONSITE CIVIL DETAILS**

Sheet:  
**C3.1**



1 60" DIA. STORM DRAIN DETENTION OUTLET CONTROL MANHOLE N.T.S. 2 TYPICAL ACCESS RISER AT DETENTION PIPE 1/2"=1'-0"



Architect / Engineer:  
**MOSWAIN & WOODS ARCHITECTS**  
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 Milwaukie, OR 97222  
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Registered Professional Engineer  
**COLE G. PRESTIUS**  
 No. 19, 19M  
 RENEWS: 12-31-2012

Project for:  
**THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS**

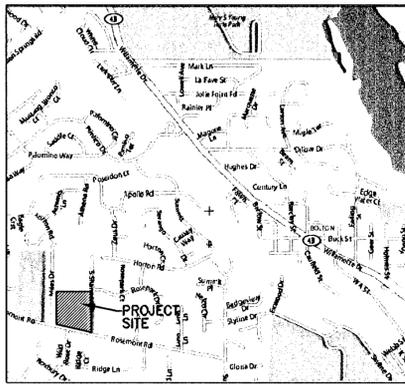
Project Number:  
 563-1459-0801-0201

Plan Series:  
 HER-TRA-98-14

Property Number:  
 563-1459

Sheet Title:  
**ONSITE CIVIL DETAILS**

Sheet:  
**C3.2**



VICINITY MAP  
SCALE: N.T.S.

GENERAL NOTES

GENERAL

- ALL WORK AND MATERIALS SHALL CONFORM TO THESE PLANS AND PROVISIONS OF THE CITY OF WEST LINN MINIMUM DESIGN STANDARDS FOR EXTENSIONS AND IMPROVEMENTS TO THE PUBLIC WATER AND SANITARY SEWER SYSTEM. IMPROVEMENTS DEPICTED ON THESE PLANS FORM THE INTENT OF COMPLYING WITH PUBLIC WATER AND PUBLIC STORM IMPROVEMENTS AS REQUIRED BY CITY OF WEST LINN FILE #
- THE CONTRACT DOCUMENTS, WHICH INCLUDE THE CITY OF WEST LINN STANDARDS, DRAWINGS, AND ANY OTHER PERTINENT SPECIFICATIONS, PERMITS, REGULATIONS AND REQUIREMENTS UNIQUE TO THE PROJECT, WILL GOVERN THE WORK TO BE DONE. WHEN A PARTICULAR SPECIFICATION, REGULATION, OR REQUIREMENT IS REFERRED TO IN THE CONTRACT DOCUMENTS, SUCH REFERENCE SHALL BE TO CURRENT REVISIONS OR AMENDMENTS. ITEMS MENTIONED IN THE CONTRACT DOCUMENTS AND NOT SHOWN ON THE DRAWINGS OR STANDARD DETAILS SHALL BE OF LIKE EFFECT AS THEY BY, AND AREAS NOT MENTIONED IN BOTH SPECIFICATIONS AND DRAWINGS REFERRED TO IN ANY OF THE CONTRACT DOCUMENTS SHALL BE CONSIDERED AS BEING INCLUDED IN THE DOCUMENT IN WHICH SUCH REFERENCE IS MADE.
- IN ORDER TO PROTECT UNDERGROUND FACILITIES, EXCAVATORS PERFORMING THE WORK SET FORTH ON THESE PLANS MUST COMPLY WITH THE PROVISIONS OF OREGON STATE LAW (REQUIRES CONTRACTOR TO NOTIFY UTILITIES AT LEAST 48 HOURS, BUT NO MORE THAN 10 BUSINESS DAYS, PRIOR TO ANY EXCAVATIONS.) THE LOCATION OF EXISTING UTILITIES SHOWN ON THE PLANS IS APPROXIMATE AND SHOWN FOR INFORMATION PURPOSES ONLY. THE CONTRACTOR SHALL HAVE ALL UTILITIES LOCATED PRIOR TO COMMENCING CONSTRUCTION. NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION. ADDITIONAL UNDERGROUND UTILITIES MAY EXIST.
- VERTICAL DATUM: REFER TO TOPOGRAPHIC SURVEY.
- TOPOGRAHY: MCGRAW HILL AND ASSOCIATES, INC., LAKE OSWEGO, OR.
- THE CONTRACTOR SHALL CONTROL TRAFFIC THROUGH THE PROJECT SITE IN CONFORMANCE WITH THE LATEST EDITION OF "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES," "OREGON SUPPLEMENTS". THE CONTRACTOR SHALL AT ALL TIMES MAINTAIN LOCAL ACCESS FOR HOMEOWNERS AND BUSINESSES ALONG THE PROJECT SITE. ROAD CLOSURES ARE NOT ALLOWED.
- THE CONTRACTOR AND/OR SUB-CONTRACTOR SHALL HAVE A MINIMUM OF TWO (2) SETS OF RECORD DRAWINGS ON THE JOB SITE AT ALL TIMES DURING THE CONSTRUCTION PHASES. ONE SET SHALL BE DEDICATED TO RECORDING 'AS-BUILT' CONDITIONS. THE AS-BUILT MARKED SET SHALL BE RETURNED TO THE ENGINEER.
- CONTRACTOR SHALL COORDINATE AND SCHEDULE ALL EARTHWORK, TRENCH BACKFILL AND ROAD CONSTRUCTION COMPACTION TESTS AND GEOTECHNICAL REVIEWS WITH THE PROJECT GEOTECHNICAL ENGINEERING OFFICE AS REQUIRED FOR ACCEPTANCE OF PROJECT WORK BY CITY OF WEST LINN AND AS REQUIRED BY THESE PLANS.
- CONTRACTOR SHALL CAREFULLY MAINTAIN BENCHMARKS, PROPERTY CORNERS, MONUMENTS, AND OTHER REFERENCE POINTS. IF SUCH POINTS ARE DISTURBED OR DESTROYED BY CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL PAY FOR THEIR REPLACEMENT BY EMPLOYING THE PROJECT'S PROFESSIONAL LAND SURVEYOR TO RESET PROPERTY CORNERS AND OTHER SUCH MONUMENTS.
- PRIOR TO BEGINNING WORK, THE CONTRACTOR SHALL PRESENT A LIST AT THE PRECONSTRUCTION MEETING OF SUBCONTRACTORS, A PROJECT SCHEDULE, A TRAFFIC CONTROL PLAN AND A 24 HOUR PHONE NUMBER FOR CONTRACTOR CONTACT FOR EMERGENCIES.
- FINAL CLEANUP - PRIOR TO FINAL ACCEPTANCE AND PAYMENT, THE CONTRACTOR SHALL CLEAN THE WORK SITE AND ADJACENT AREAS OF ANY DEBRIS, DISCARDED ASPHALTIC CONCRETE MATERIAL OR OTHER ITEMS DEPOSITED BY THE CONTRACTOR'S PERSONNEL DURING THE PERFORMANCE OF THIS WORK.
- THE CONTRACTOR SHALL, AS A MINIMUM, COORDINATE THE PROPOSED CONSTRUCTION ACTIVITIES WITH THE OWNER, NEIGHBORS AND THE LOCAL PUBLIC AGENCIES, UTILITIES AND COMPANIES DURING CONSTRUCTION TO AVOID DAMAGE AND TO PREVENT THE INTERRUPTION OF SERVICES AND UTILITIES TO RESIDENTS AND BUSINESSES.
- THE CONTRACTOR SHALL PROVIDE SUBMITTALS OF ALL MATERIALS AND ACCESSORIES TO THE ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO SITE DELIVERY.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS ON DRAWINGS AND IN FIELD. NOTIFY OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH WORK.
- EXISTING UTILITIES AND SITE INFORMATION SHOWN HEREON ARE BASED ON RECORD DRAWINGS PROVIDED BY OR MADE AVAILABLE BY THE OWNER. THE CONTRACTOR IS REQUIRED TO FIELD VERIFY THE LOCATION OF EXISTING FEATURES AND UTILITIES PRIOR TO CONSTRUCTION, AND SHALL ARRANGE FOR THE RELOCATION OF ANY IN CONFLICT WITH THE PROPOSED WORK. MINOR ADJUSTMENTS BASED ON FIELD CONDITIONS SHALL BE MADE BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- ALL CONSTRUCTION ACTIVITY SHALL BE DONE IN A SAFE AND NEAT MANNER AND UNDER OBSERVATION BY CITY FORCES.
- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLYING WITH ALL CONSTRUCTION SAFETY, HEALTH AND OTHER RULES AND REGULATIONS OF STATE AND LOCAL REGULATING AGENCIES FOR SAFETY AND INSTALLATION OF THE WORK INCLUDING BUT NOT LIMITED TO SHORING, BRACING, ERECTION / INSTALLATION, FALL PROTECTION, GUARDRAILS, ETC.
- ALL TRENCH EXCAVATIONS SHALL BE PROPERLY SHORED AND BRACED TO PREVENT CAVING. UNUSUALLY DEEP EXCAVATIONS MAY REQUIRE EXTRA SHORING AND BRACING. ALL SHEETING, SHORING, AND BRACING OF TRENCHES SHALL CONFORM TO OREGON STATE REGULATIONS AND CITY OF THE DALLES CONSTRUCTION STANDARDS.
- ALL UNDERGROUND UTILITIES SHALL BE INSTALLED PRIOR TO CONSTRUCTION OF CURBS, RETAINING WALLS, OR PAVEMENT.
- CONTRACTOR TO REMOVE FROM SITE EXCESS SOIL OR OTHER MATERIALS NOT REUSABLE FOR THIS PROJECT, AND COMPLY WITH ALL RECOMMENDATIONS OF THE PROJECT GEOTECHNICAL REPORT.
- APPROPRIATE BENCHING OF FILLS IS REQUIRED FOR FILLS OVER 5 FEET IN HEIGHT ON SLOPES IN EXCESS OF 5 HORIZONTAL TO 1 VERTICAL. THE CONTRACTOR SHALL ARRANGE FOR THE GEOTECHNICAL ENGINEER TO INSPECT EXCAVATED BENCHES PRIOR TO FILL PLACEMENT.
- CUT AND FILL SLOPES SHALL BE PROTECTED FROM EROSION. SUCH CONTROL MAY CONSIST OF APPROPRIATE REVEGETATION OR OTHER ACCEPTABLE MEANS AND METHODS. EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO EARTHWORK OR SITE STRIPPING.
- CRUSHED ROCK BASE MATERIAL AND PIPE ZONE MATERIAL SHALL BE CRUSHED ROCK CONFORMING TO OREGON DEPARTMENT OF TRANSPORTATION AND BE COMPACTED TO 95% OF MAXIMUM DENSITY AS DETERMINED IN ACCORDANCE WITH ASTM D1557.

# NEW PUBLIC STREET IMPROVEMENTS FOR NEW L.D.S. WEST LINN CHURCH LAKE OSWEGO STAKE ROSEMONT ROAD AND SHANNON LANE

TAX LOTS 4900 AND 4901, TAX MAP 2 1E 25BC  
IN THE NW 1/4 SEC. 25, T.2S., R.1E., W.M.  
CLACKAMAS COUNTY, OREGON

- 3/4" - 0" CRUSHED ROCK PIPE ZONE AND BACKFILL MATERIAL IS REQUIRED FOR ALL UTILITY LINES, CONDUITS AND LEVELING COURSES BELOW PAVEMENTS AND IN RIGHT-OF-WAYS. REFER TO THE TYPICAL TRENCH AND PAVEMENT DETAILS.
- ASPHALTIC CONCRETE (A.C.) PAVEMENT SHALL BE A 12.5MM DENSE GRADED HOT MIX WITH A 5.8% MINIMUM ASPHALT CONTENT PER OREGON DOT CLASSIFICATION FOR ALL LIFTS. PAVEMENT SHALL BE PLACED ONLY ON DRY, CLEAN AND PROPERLY PREPARED SUBSURFACES, AND WHEN CONDITIONS MEET THE SPECIFICATIONS AS SET FORTH IN THE MOST RECENT EDITION OF THE OREGON DOT SPECIFICATIONS. ALL NEW PAVEMENT AREAS SHALL CONFORM TO THE TYPICAL PAVEMENT SECTION DETAIL. ALL A.C. PAVEMENT TO BE COMPACTED TO 91% OF MAXIMUM DENSITY PER ASTM D2041 FOR SINGLE AND FIRST LIFTS AND 92% COMPACTION SHALL BE REQUIRED FOR SUBSEQUENT LIFTS.
- ALL JOINTS BETWEEN A.C. AND CONCRETE STRUCTURES MUST BE TACKED WITH BITUMASTIC. NO EXCEPTIONS ALLOWED.
- ALL PORTLAND CEMENT CONCRETE PAVEMENT SHALL HAVE A 28 DAY MINIMUM ULTIMATE STRENGTH OF 4000 PSI. PROVIDE A MINIMUM OF (4) TEST CYLINDERS IN ACCORDANCE WITH CURRENT IBC AT EACH POUR.
  - MINIMUM MIX REQUIREMENTS:
    - CEMENT CONTENT PER YARD: 5 SACKS.
    - MAXIMUM WATER/CEMENT RATIO: 0.45. FLY ASH MEETING ASTM C818 AND WITH LOSS ON IGNITION LESS THAN 3% MAY BE ADDED TO THE CEMENT, BUT NOT MORE THAN 15% BY WEIGHT.
    - SLUMP: 3 INCH TO 4 INCH. DEVIATING FROM DESIGN SLUMP +1/2 INCH TO -1 INCH. WHEN CONCRETE IS TO BE PUMPED, ADD PLASTICIZERS MEETING ASTM C494 AND PROVIDE A NEW MIX DESIGN. DO NOT ADD WATER.
    - ADMX: PROVIDE WATER REDUCING ADMX (MASTERS BUILDERS) AND REDUCE WATER USED BY 10% MINIMUM FOR ALL SLABS.
    - AIR ENTRAINMENT: PER ACI 301 AND 308 AT ALL EXTERIOR SLABS AND FLAT WORK.
    - ALL ADMIXTURES TO BE COMPATIBLE FROM SAME MANUFACTURER.
  - PLACE AND CURE ALL CONCRETE PER ACI CODES AND STANDARDS

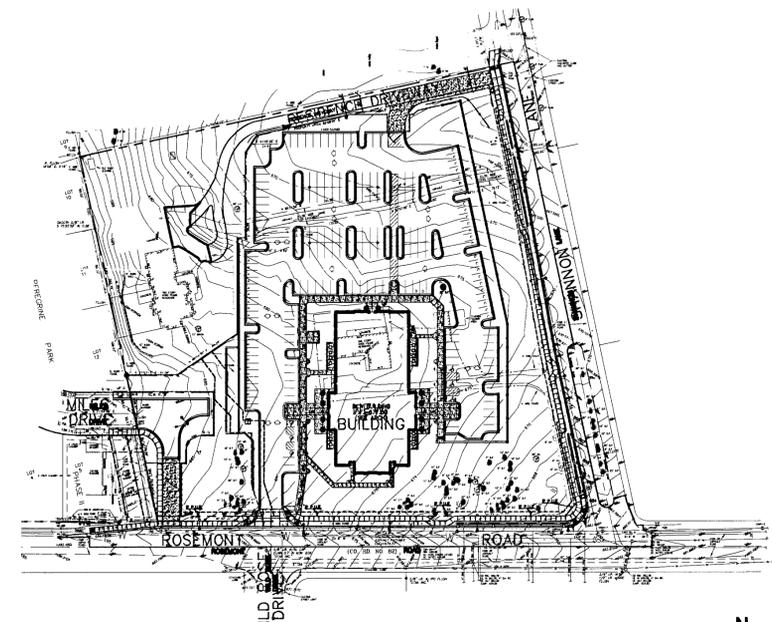
- 05.0 PUBLIC WATER LINE**
- ALL WATER SYSTEM FITTINGS, EQUIPMENT AND MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF CITY OF WEST LINN CONSTRUCTION STANDARDS FOR PUBLIC WORKS FACILITIES.
  - WATER MAIN PIPE MATERIAL SHALL BE DUCTILE IRON WATER PIPE PER AWWA C-151, CLASS 52 WITH CEMENT MORTAR LINING AND SEAL COATED PER AWWA C-104. FITTINGS SHALL BE PER AWWA C-110 AND A-423 GASKETS PER AWWA C-111; JOINT RESTRAINED DEVICES PER AWWA C-111.
  - HYDRANT STYLE SHALL BE A MUELLER CENTURIUM MDL A-423. CLOW MEDALLION F-2540 WITH TWO (2) HOSE CONNECTIONS AND ONE (1) PUMPER NOZZLE. ALL FIRE HYDRANTS TO BECOME PUBLIC SHALL BE PAINTED YELLOW AND ALL PRIVATE HYDRANTS RED. SEE CITY STDS SECTION 402.10.
  - BLOW-OFF ASSEMBLIES ARE REQUIRED AT ALL DEAD-END LINES. LOCATE BLOW-OFF ASSEMBLIES FOUR FEET FROM FACE OF CURB, WITHIN STREET.
  - COPPER WATER PIPE FOR SERVICE LINES 1/2" TO 2 1/2" DIA. SHALL BE TYPE K HARD TEMPERED COPPER PER ANSI H23.1 WITH WROUGHT COPPER SOLDER JOINT FITTINGS PER ANSI B18.22. SEE CITY STDS SECTION 403.07.
  - CLASS 52 DUCTILE IRON MAY BE DIRECT TAPPED (WITH NO SADDLE BUT WITH CORPORATION STOP) FOR 3/4 INCH TO 1-1/2 INCH SIZE SERVICES. SADDLES SHALL BE USED ON ALL TAPS GREATER THAN 1-1/2 INCH UNLESS OTHERWISE APPROVED BY THE WATER DISTRICT.
  - ALL ELBOWS, BENDS, TEES, CROSSES, DEAD-ENDS, ETC. ON WATER MAINS SHALL BE PROVIDED WITH CONCRETE THRUST BLOCKS.
  - A DEPTH OF 38-INCHES FROM FINISHED GRADE TO THE TOP OF THE WATER MAIN IS REQUIRED. A DEPTH OF 30" MINIMUM FROM FINISH GRADE TO TOP OF SERVICE LINES IS REQUIRED.
  - ALL NEW WATER PIPES MUST BE PROPERLY FLUSHED, PRESSURE TESTED, AND CHLORINATED BY THE CONTRACTOR, AND INSPECTED BY CITY FORCES.
  - BACTERIOLOGICAL TESTING SHALL BE TAKEN BY THE SANITARY SEWER DEPARTMENT GENERAL CONTRACTOR. THE OPERATION OF NEARBY WATER VALVES (OPENING AND CLOSING) BY THE CONTRACTOR DURING FLUSHING IS PROHIBITED. THIS WILL ONLY BE DONE BY CITY FORCES WHEN SO REQUESTED BY THE CONTRACTOR.
  - ALL BACKFLOW PREVENTION DEVICES (DOUBLE CHECK BACKFLOW PREVENTORS, REDUCED PRESSURE BACKFLOW PREVENTORS, PRESSURE AND ATMOSPHERIC VACUUM BREAKERS, ETC.) MUST BE APPROVED BY THE OREGON STATE HEALTH DIVISION. ALL SERVICE LINES 1-INCH AND GREATER SHALL HAVE A DOUBLE CHECK BACKFLOW PREVENTOR AS MINIMUM PROTECTION.
  - ALL NEW CONNECTIONS TO EXISTING WATER MAINS REQUIRE ISSUANCE OF A PUBLIC WORKS PERMIT AND INSPECTION BY THE CITY PRIOR TO BACKFILLING.
  - ALL 2-INCH AND LARGER WATER METERS SHALL BE SENSUS COMPOUND METERS WITH GALLON REGISTERS AND REMOTE READOUTS UNLESS OTHERWISE REQUIRED BY THE WATER DISTRICT AUTHORITY. EACH METER SHALL HAVE BY-PASS PLUMBING.
  - ALL WATER MAINS SHALL BE TAPPED WITH SANITARY SEWER PER ALL DEQ AND OSHD RULES AND REGULATIONS RELATING TO VERTICAL AND HORIZONTAL SEPARATION. SEE CITY STDS SECTION 4.0023.
  - ALL OTHER CONSTRUCTION PRACTICES (RELATING TO WATER) WITHIN THE CITY'S PUBLIC RIGHT-OF-WAY, NOT COVERED IN THESE "GENERAL REQUIREMENTS" AND/OR IN THE "CONSTRUCTION DETAILS" SECTIONS, SHALL COMPLY WITH THE RULES AND REGULATIONS IN THE MOST RECENT EDITIONS OF THE AMERICAN PUBLIC WORKS ASSOCIATION STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, THE STANDARDS OF THE AMERICAN WATER WORKS ASSOCIATION, THE CITY OF WEST LINN CONSTRUCTION STANDARDS, AND THE STATE OF OREGON HEALTH DIVISION RULES.

- 06.0 PUBLIC SANITARY SEWER**
- ALL SANITARY SEWER SYSTEM FITTINGS, EQUIPMENT AND MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF THE CITY OF WEST LINN PUBLIC WORKS DEPARTMENT.
  - ALL SANITARY SEWER PIPING SHALL BE ASTM D3034, SDR 35, PVC. COMPATIBLE ASTM D3034 FITTINGS MUST BE USED WITH ASTM D3034 PIPE. ALL ASTM D3034 PIPE USED MUST BE OF WATER-TIGHT JOINTS AND TESTED FOR ROUNDNESS AFTER BACKFILL. PROVIDE PRESSURE TEST AND TV VIDEO OF PIPE AND VACUUM TESTS FOR MANHOLES IN ACCORDANCE WITH LOCAL AND STATE JURISDICTIONS. MINIMUM PIPE DIAMETER FOR PRIVATE LATERALS IS 4-INCH. ALL SANITARY SEWER LATERALS MUST BE PROPERLY MARKED AT ENDS AS REQUIRED BY THE CITY OF WEST LINN. USE OF "CONCRETE" OR OTHER PLASTIC PIPE FOR SANITARY SEWER MAINS AND LATERALS IS NOT ALLOWED.

- SEWER LINES SHALL LAID IN A STRAIGHT ALIGNMENT AND IN A UNIFORM GRADE BETWEEN THE MANHOLES. CONTROL STAKES ARE REQUIRED LOCATING NEW SANITARY SEWER PIPE AND MUST BE PROVIDED BY PROFESSIONAL LAND SURVEYOR REGISTERED IN OREGON. THE SURVEYOR IS TO SUBMIT PROPOSED STAKING NOTES TO THE CITY ENGINEER PRIOR TO THE PRECONSTRUCTION CONFERENCE.
- CONNECTIONS INTO THE EXISTING SANITARY SEWER MAINS REQUIRE ISSUANCE OF A PUBLIC WORKS PERMIT AND INSPECTION BY THE CITY PRIOR TO BACKFILLING.
- ALL NEW SANITARY SEWER PIPES AND MANHOLES MUST BE THOROUGHLY CLEANED, VIDEO TAPED AND PRESSURE/VACUUM TESTED AS REQUIRED BY THE DEQ AND THE CITY. ALL TESTS MUST BE WITNESSED AND PASSED BY THE CITY PRIOR TO PLACING INTO OPERATION.
- ALL SANITARY SEWER CROSSINGS WITH WATER LINES SHALL COMPLY WITH ALL DEQ AND OSHD RULES AND REGULATIONS RELATING TO VERTICAL AND HORIZONTAL SEPARATION. SEE CITY STDS SECTION 3.0023.
- ALL OTHER CONSTRUCTION PRACTICES (RELATING TO SANITARY SEWER) WITHIN THE CITY'S PUBLIC RIGHT-OF-WAY, NOT COVERED IN THESE "GENERAL REQUIREMENTS" AND/OR "CONSTRUCTION DETAILS" SECTIONS, SHALL COMPLY WITH THE RULES AND REGULATIONS OF THE MOST RECENT EDITION OF THE CITY OF WEST LINN CONSTRUCTION STANDARDS.

- PUBLIC STORM DRAIN**
- ALL STORM SEWER SYSTEM FITTINGS, EQUIPMENT AND MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF THE CITY OF WEST LINN ENGINEERING DEPARTMENT.
  - PVC STORM DRAIN PIPE SHALL BE ASTM D3034, SDR-35. COMPATIBLE ASTM D3034 FITTINGS MUST BE USED WITH ASTM D3034 PIPE. ALL ASTM D3034 PIPE USED MUST BE OF WATER-TIGHT JOINTS TESTED FOR ROUNDNESS AFTER BACKFILL. PROVIDE PRESSURE TEST, MANDREL TEST AND TV VIDEO TAPE.
  - REINFORCED CONCRETE STORM DRAIN PIPE AND FITTINGS SHALL CONFORM TO THE REQUIREMENTS OF ASTM C78, CLASS IV. PROVIDE WATER TIGHT JOINTS USING RUBBER RING GASKETS. SEE CITY STDS SECTION 601.02.02B.
  - DUCTILE IRON STORM DRAIN PIPE SHALL BE IN ACCORDANCE WITH AWWA C151, CLASS 52, ASTM 538, AND AWWA C104. JOINTS SHALL BE BELL AND SPIGOT WITH RUBBER GASKETS PER AWWA C111.
  - STORM DRAIN LINES SHALL BE LAID IN A STRAIGHT ALIGNMENT AND UNIFORM GRADE BETWEEN MANHOLES OR OTHER JUNCTION STRUCTURES. CONTROL STAKES ARE REQUIRED FOR LOCATING NEW STORM DRAIN PIPE AND MUST BE PROVIDED BY A PROFESSIONAL LAND SURVEYOR REGISTERED IN OREGON.
  - ALL NEW STORM SEWER PIPES AND MANHOLES MUST BE THOROUGHLY CLEANED AND PRESSURE TESTED AS REQUIRED BY THE CITY. ALL TESTS MUST BE WITNESSED AND PASSED BY THE CITY PRIOR TO PLACING INTO OPERATION.
  - ALL CONNECTIONS TO EXISTING STORM SEWER MAINS REQUIRE ISSUANCE OF A PUBLIC WORKS PERMIT AND INSPECTION BY THE CITY PRIOR TO BACKFILLING.
  - ALL OTHER CONSTRUCTION PRACTICES (RELATING TO STORM SEWER) WITHIN THE CITY'S PUBLIC RIGHT-OF-WAY, NOT COVERED IN THESE "GENERAL REQUIREMENTS" AND/OR "CONSTRUCTION DETAILS" SECTIONS, MUST COMPLY WITH THE RULES AND REGULATIONS FOUND IN THE MOST RECENT EDITION(S) OF THE CITY OF WEST LINN CONSTRUCTION STANDARDS.

- 07.0 EARTHWORK SPILLAGE AND DUST CONTROL**
- AVOID SOILS SPILLAGE AND CREATION OF DUST NUISANCE BY COVERING AND SECURING LOADS WHEN HAULING ON OR ADJACENT TO PUBLIC STREETS OR HIGHWAYS.
  - TAKE PRECAUTIONS NECESSARY TO PREVENT EROSION AND TRANSPORT OF SOILS DOWNSTREAM.
  - REMOVE SPILLAGE OR DUST AND SWEEP, WASH, OR OTHERWISE CLEAN PROJECT, ADJACENT PROPERTIES, STREETS, HIGHWAYS, AND DOWNSTREAM DRAINAGE SYSTEMS.



SITE PLAN  
SCALE: 1" = 100'

EXISTING CONDITIONS LEGEND:

- FOUND 5/8" IRON ROD WITH YELLOW PLASTIC CAP STAMPED "DILORETTO PLS 440" UNLESS OTHERWISE NOTED
- I.R. IRON ROD
- I.P. IRON PIPE
- W/OPC WITH ORANGE PLASTIC CAP
- W/YPC WITH YELLOW PLASTIC CAP
- W/AL CAP WITH ALUMINUM CAP
- W/RPC WITH RED PLASTIC CAP
- P PINE
- DEC DECIDUOUS
- AP APPLE
- H HOLLY
- M MAPLE
- HT HAWTHORN
- CH CHERRY
- MD MADRONE
- D.F. DOUGLAS FIR
- 000.00EACX EDGE OF ASPHALT - SPOT ELEVATION
- 000.00CLX CENTERLINE OF ROAD - SPOT ELEVATION
- 000.00EPX EDGE OF PAVEMENT - SPOT ELEVATION
- 000.00ECX EDGE OF CONCRETE - SPOT ELEVATION
- 000.00FLX FLOWLINE OF CURB - SPOT ELEVATION
- 000.00FFX FINISHED FLOOR ELEVATION - SPOT ELEVATION
- UTILITY PEDISTAL
- T.V. CABLE PEDISTAL
- TELEPHONE PEDISTAL
- ELECTRIC METER
- MAILBOX
- STORM DRAIN CATCH BASIN (SDCB)
- WATER METER
- ELECTRIC VAULT
- 4" PVC UO 2 FEET
- UTILITY POLE
- TRAFFIC SIGN
- HOSE BIB
- FIRE HYDRANT
- WATER VALVE
- SANITARY SEWER MANHOLE (SSMH)
- OVERHEAD UTILITY LINES
- GAS METER
- CONCRETE
- ROOF SHINGLE SURFACE
- ASPHALT

Sheet No.	INDEX OF SHEETS
CS1.0	COVER SHEET AND NOTES
CS2.0	CIVIL NOTES (CONT)
CS3.0	ROSEMONT ROAD - PLAN & PROFILE
CS4.0	SHANNON LANE - PLAN & PROFILE
CS5.0	MILES DRIVE - PLAN
CS6.0	PUBLIC IMPROVEMENT DETAILS
CS7.0	PUBLIC IMPROVEMENT DETAILS
CS8.0	PUBLIC IMPROVEMENT DETAILS
CS9.0	PUBLIC IMPROVEMENT DETAILS
CS10.0	PUBLIC IMPROVEMENT DETAILS

THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION COLLECTED IN THE FIELD BY WDY AND ALSO INFORMATION PROVIDED BY THE GENERAL CONTRACTOR FOR AS-BUILT UTILITY LOCATION CHANGES AS NOTED WITHIN THIS PLAN SET. WDY HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF ALL THE INFORMATION PROVIDED BY THE GENERAL CONTRACTOR AND SHALL NOT BE RESPONSIBLE FOR ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

**OWNER**  
CHURCH OF JESUS CHRIST OF LATTER DAY SAINTS  
PROJECT MANAGEMENT OFFICE  
1100 6th AVENUE SE  
ISSAQUAH, WASHINGTON 98027  
ATTN: RICHARD WAIDE

**ARCHITECT (OWNER'S REPRESENTATIVE):**  
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MILWAUKIE, OREGON 97222  
ATTN: LONGLEY F. MCSWAIN, A. I. A.  
PH (503) 654-9772 FX (503) 654-9769

**CIVIL ENGINEERS:**  
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PORTLAND, OREGON 97221  
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6443 SW Beaverton-Hillsdale Hwy, suite 210 Portland, OR 97221 ph.503.203.8111 fx.503.203.8122 www.wdyf.com

Architect / Engineer:  
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RENEWS: 12-31-2012

West Linn Ward  
**Lake Oswego OR Stake**  
Rosemont Road & Shannon Lane  
West Linn, Oregon

Project for:  
**THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS**

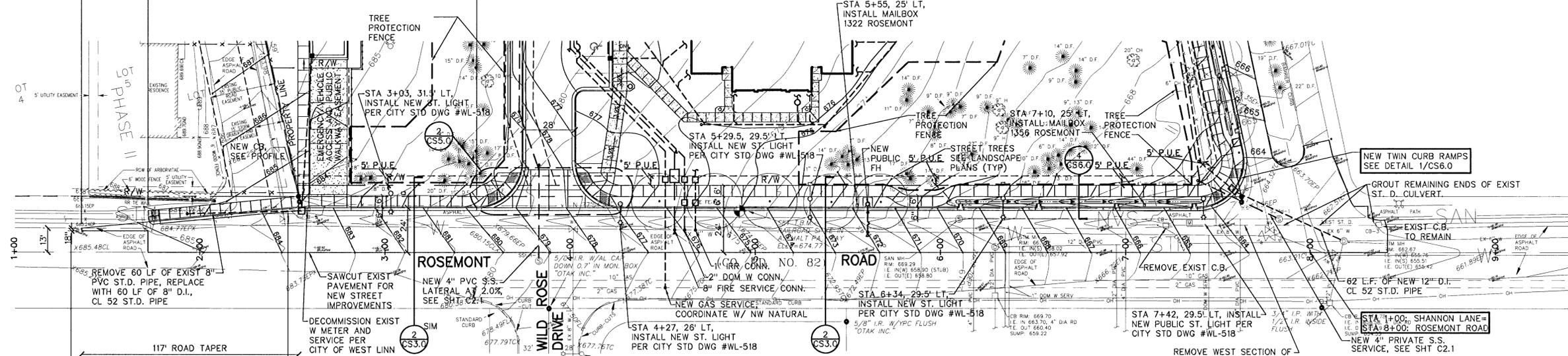
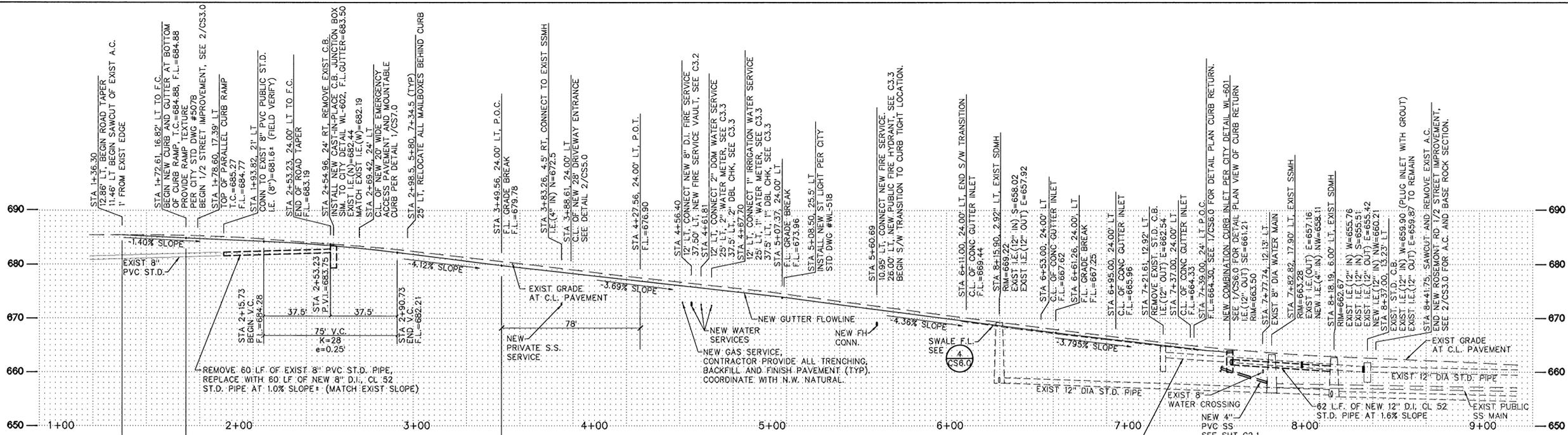
Project Number:	563-1459-0801-0201
Plan Series:	HER-TRA-98-14
Property Number:	563-1459
Sheet Title:	

**PUBLIC STREET COVER SHEET**

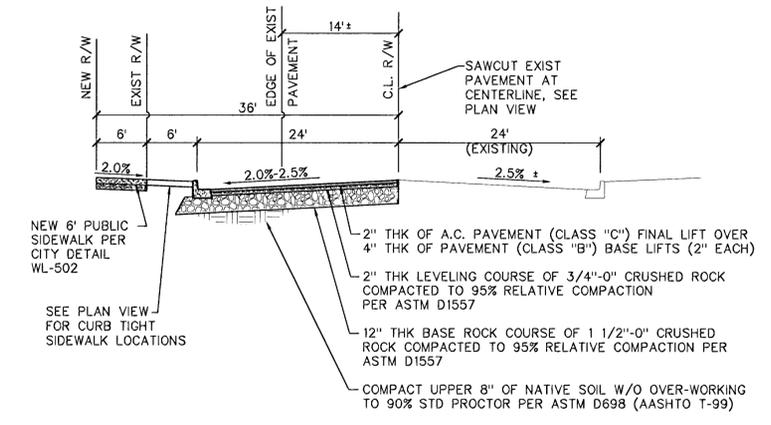
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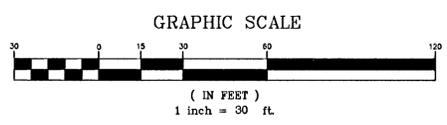




**1 ROSEMONT ROAD OFFSITE STREET IMPROVEMENTS - PLAN AND PROFILE**  
 SCALE: HORIZ: 1"=30'-0"  
 VERT: 1"=10'-0"



**2 ROSEMONT ROAD-STREET CROSS SECTION**  
 SCALE: HORIZ: 1"=10'-0"  
 VERT: 1"=5'-0"



Architect / Engineer:  
**MC SWAIN & WOODS ARCHITECTS**  
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 PORTLAND, OR 97221  
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Project for:  
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 Rosemont Road & Shannon Lane  
 West Linn, Oregon

Project for:  
**THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS**

Mark	Date (m-d)	Description

Project Number:  
 563-1459-0801-0201  
 Plan Series:  
 HER-TRA-98-14  
 Property Number:  
 563-1459

Sheet Title:  
**ROSEMONT ROAD PLAN AND PROFILE**

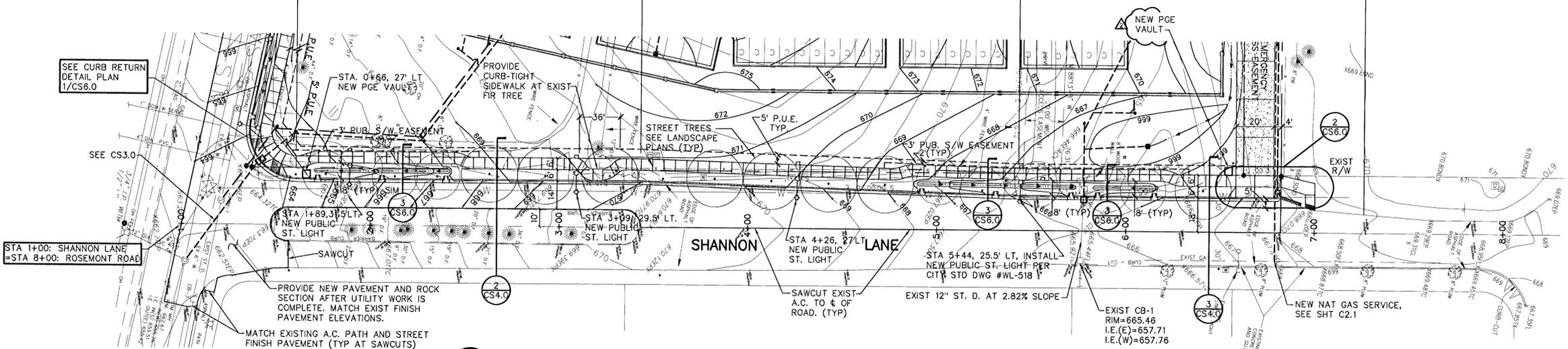
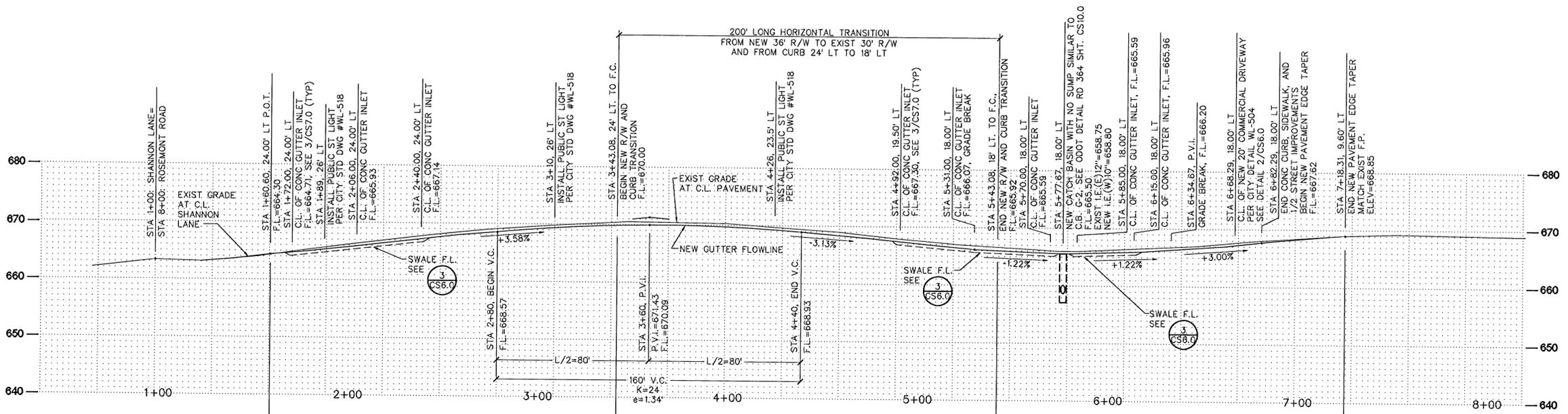
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Mark	Date (mm-yy)	Description

Project Number: 563-1459-0801-0201  
 Plan Series: HER-TRA-98-14  
 Property Number: 563-1459

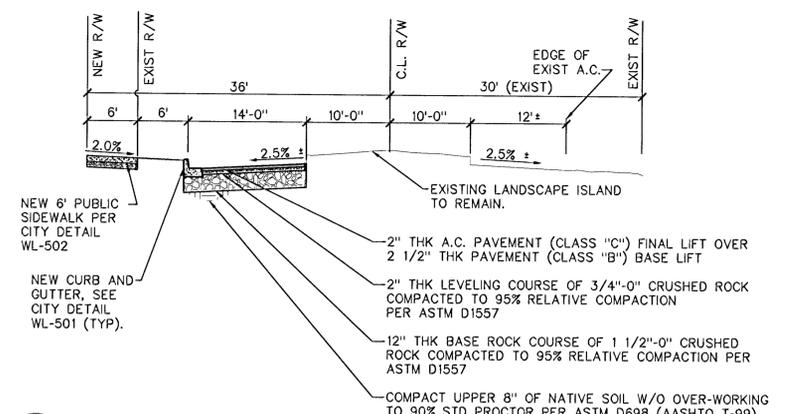
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**SHANNON LANE PLAN & PROFILE**

Sheet:  
**CS4.0**

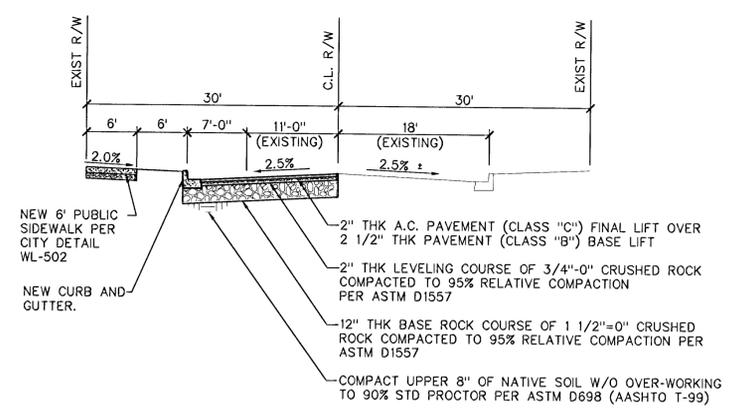


**1 SHANNON LANE OFFSITE STREET IMPROVEMENTS PLAN AND PROFILE**  
 SCALE: HORIZ: 1" = 30'-0"  
 VERT: 1" = 10'-0"

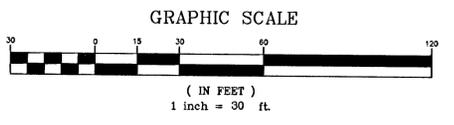
NOTE: RELOCATE EXISTING MAILBOXES, UTILITY RISERS, STREET SIGNS, ETC. TO BEHIND NEW CURB PER CITY STANDARDS. TYPICAL AT ALL SITE FRONTAGES.

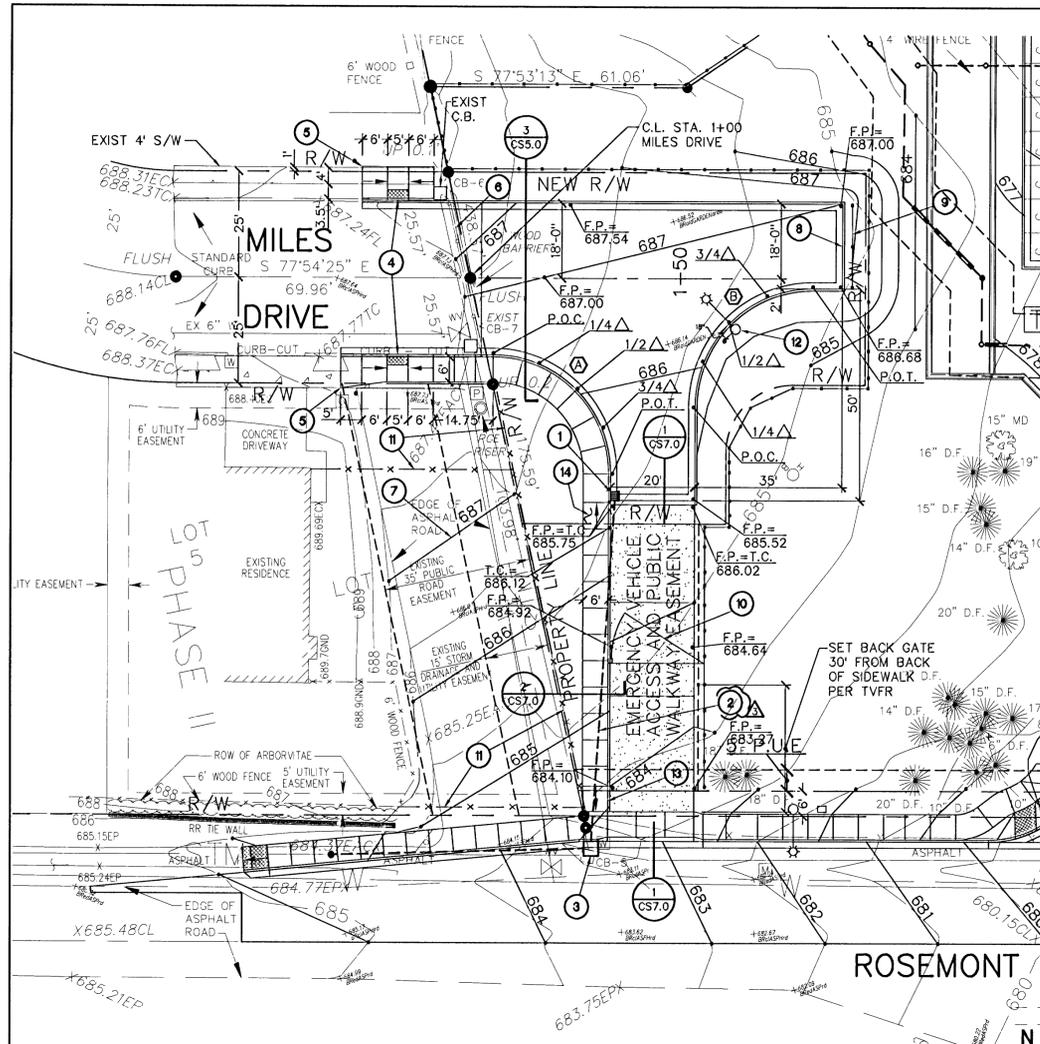


**2 SHANNON LANE (SOUTH) - STREET CROSS SECTION**  
 SCALE: HORIZ: 1" = 10'-0"  
 VERT: 1" = 5'-0"

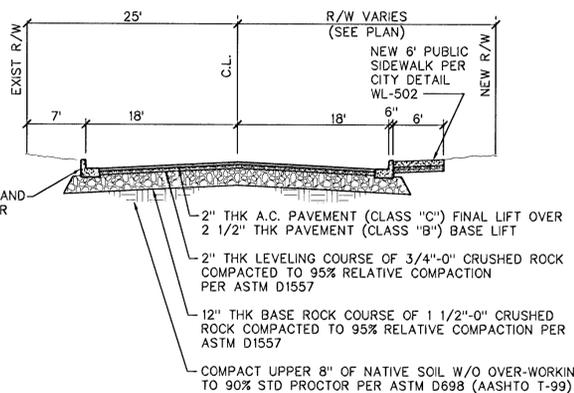
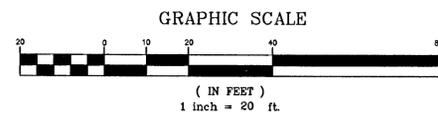


**3 SHANNON LANE (NORTH) - STREET CROSS SECTION**  
 SCALE: HORIZ: 1" = 10'-0"  
 VERT: 1" = 5'-0"





**1** MILES DRIVE TURN-A-ROUND AND EMERGENCY VEHICLE ACCESS - PLAN  
 CS5.0 SCALE: 1" = 20'-0"

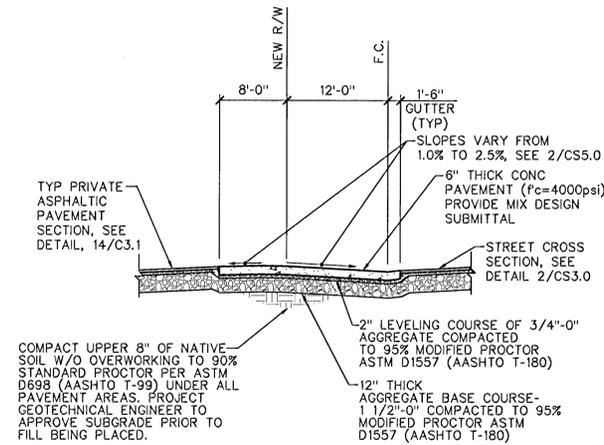


**3** MILES DRIVE EXTENSION - CROSS SECTION  
 CS5.0 SCALE: HORIZ: 1"=10'-0"  
 VERT: 1"=5'-0"

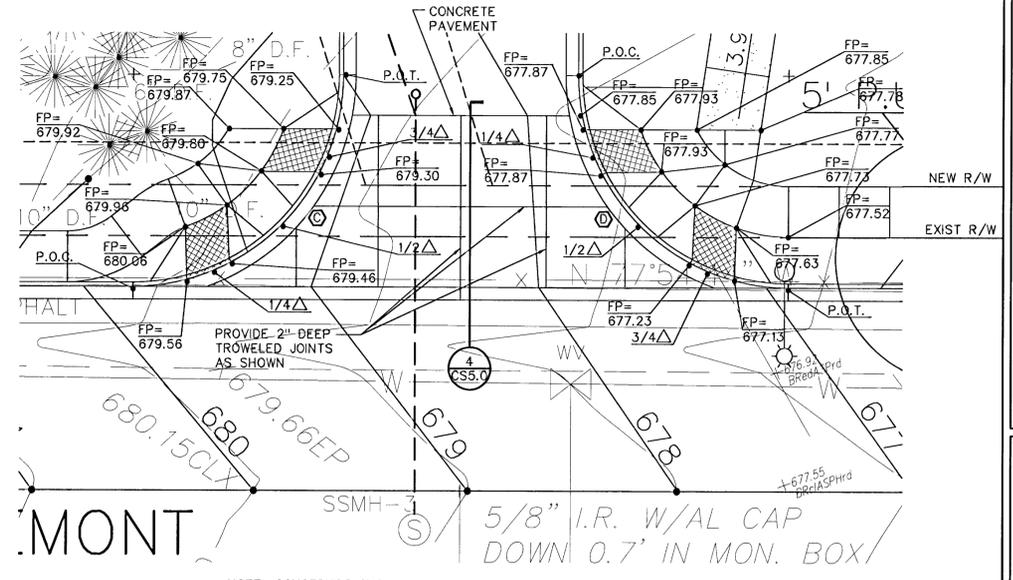
- ### KEYNOTES FOR PLAN DETAIL 1/CS5.0
- MARK - DESCRIPTION**
- NEW PUBLIC C.B. W/ SUMP PER CITY DETAIL WL-602 RIM AT GUTTER=685.25, I.E.(10')OUT(S)=683.30
  - 120 L.F. OF 10" D.I. ST. D. PIPE AT 0.8%
  - NEW ROSEMONT RD. PUBLIC C.B. AT STA. 2+54.96, 24' RT, ROSEMONT RD. CONNECT NEW 10" D.I. ST.D. PIPE TO C.B., I.E.(10')IN(N)=682.30, EXIST. 10" PVC ST.D. PIPE IN FROM NORTH TO REMAIN WITH I.E.(10')IN(N)=682.44, EXIST. INVERT OUT (W)=682.19 TO REMAIN, SEE SHT. CS3.0.
  - STA 0+82.25, 18' LT AND RT, C.L. OF NEW PARALLEL CURB RAMP SIM. TO CITY DETAIL WL-506 ON SHT CS9.0, MATCH EXIST GUTTER FLOWLINE ELEVATIONS, REMOVE EXIST CURB, GUTTER AND SIDEWALK FOR NEW CONSTRUCTION. PROVIDE SAWCUT AND MATCH NEW PUBLIC SIDEWALK TO BACK OF EXIST SIDEWALK.
  - REMOVE EXIST STREET BARRICADE.
  - NEW FINISH SOD CONTOUR ELEV, SEE LANDSCAPE DWGS. REMOVE EXIST 26' x 120' ACCESS DRIVE INCLUDING BASE ROCK AND PROVIDE NEW TOPSOIL BACKFILL TO FINISH GRADES.
  - MILES DRIVE STA 1+88.50, 2' RT AND 18' LT, F.C. AT STREET DEAD END
  - MILES DRIVE STA 1+90.50, PROVIDE NEW STREET BARRICADE PER CITY DETAIL WL-516B
  - NEW 20' WIDE (CLR) LOCKING EMERGENCY ACCESS GATE W/ KNOX BOX PER TUALATIN VALLEY FIRE AND RESCUE STDS, CONTRACTOR TO PROVIDE SUBMITTAL.
  - NEW 6' WOOD FENCE FOR PRIVATE RESIDENCE, SEE ARCH SHT CO.3.
  - INSTALL NEW PUBLIC STREET LIGHT AT 1/2 Δ, 2' BEHIND F.C. PER CITY STD DWG #WL-518. COORDINATE ALL STREET LIGHT INSTALLATIONS WITH POWER PROVIDER. GENERAL CONTRACTOR PROVIDE ALL TRENCHING AND BACKFILLING (TYP).
  - PROVIDE 6' LONG PARALLEL SIDEWALK RAMP BEHIND ROSEMONT S/W BESIDE EMERGENCY ACCESS DRIVE.
  - PROVIDE 6' LONG PARALLEL SIDEWALK RAMP AT NORTH END OF EMERGENCY ACCESS ROAD.

### CURVE DATA TABLE FOR PLAN DETAIL 1/CS5.0

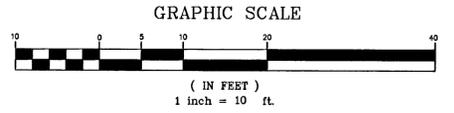
CURVE	POINT	STATION	F.L. GUTTER
CURVE (A) AT F.C. R= 28' DELTA=90 DEG. L=43.98' CHORD=39.60'	P.O.C.	MILES DRIVE STA 1+05.31, 18' RT	686.58
	1/4 Δ		686.30
	1/2 Δ		686.02
	3/4 Δ		685.74
	P.O.T.	MILES DRIVE STA 1+33.48, 46' RT	685.46
CURVE (B) AT F.C. R= 28' DELTA=90 DEG. L=43.98' CHORD=39.60'	P.O.C.	MILES DRIVE STA 1+53.58, 30.30' RT	685.87
	1/4 Δ		686.04
	1/2 Δ		686.22
	3/4 Δ		686.40
	P.O.T.	MILES DRIVE STA 1+81.53, 2.31' RT	686.57



**4** ROSEMONT ROAD - DRIVEWAY CROSS SECTION  
 CS5.0 SCALE: HORIZ: 1"=10'-0"  
 VERT: 1"=5'-0"



**2** ROSEMONT ROAD DRIVEWAY ENTRANCE - PLAN  
 CS5.0 SCALE: 1" = 10'-0"



### CURVE DATA TABLE FOR PLAN DETAIL 2/CS5.0

CURVE	POINT	STATION	F.L. GUTTER
CURVE (C) AT F.C. R= 25' DELTA=90 DEG. L=39.27' CHORD=35.36'	P.O.C.	ROSEMONT ROAD STA 3+49.56, 24' LT	679.78
	1/4 Δ		679.50
	1/2 Δ		679.34
	3/4 Δ		679.25
	P.O.T.	ROSEMONT ROAD STA 3+74.56, 49' LT	679.00
CURVE (D) AT F.C. R= 25' DELTA=90 DEG. L=39.27' CHORD=35.36'	P.O.C.	ROSEMONT ROAD STA 3+49.56, 24' LT	677.75
	1/4 Δ		677.90
	1/2 Δ		677.55
	3/4 Δ		677.20
	P.O.T.	ROSEMONT ROAD STA 3+74.56, 49' LT	676.90

Architect / Engineer:  
**MCSWAIN & WOODS ARCHITECTS**  
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 Multnomah, OR 97222  
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 COLE G. PRESTIGIO  
 LICENSE NO. 18118  
 RENEWS: 12-31-2012

Project for:  
**THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS**

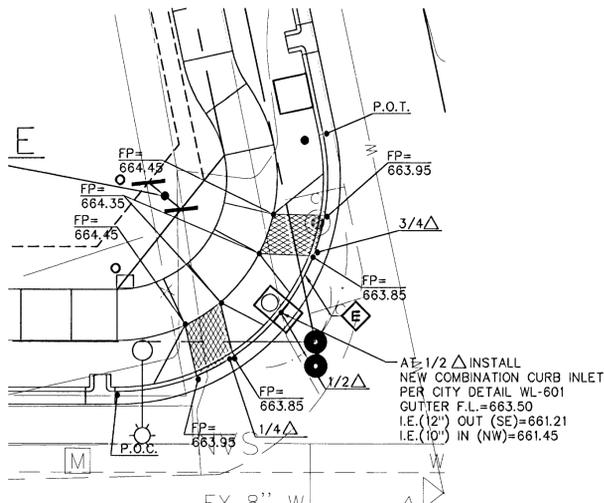
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 Plan Series: HER-TRA-98-14  
 Property Number: 563-1459

Sheet Title:  
**MILES DRIVE & ROSEMONT ROAD ENTRANCE PLANS**

Sheet:  
**CS5.0**

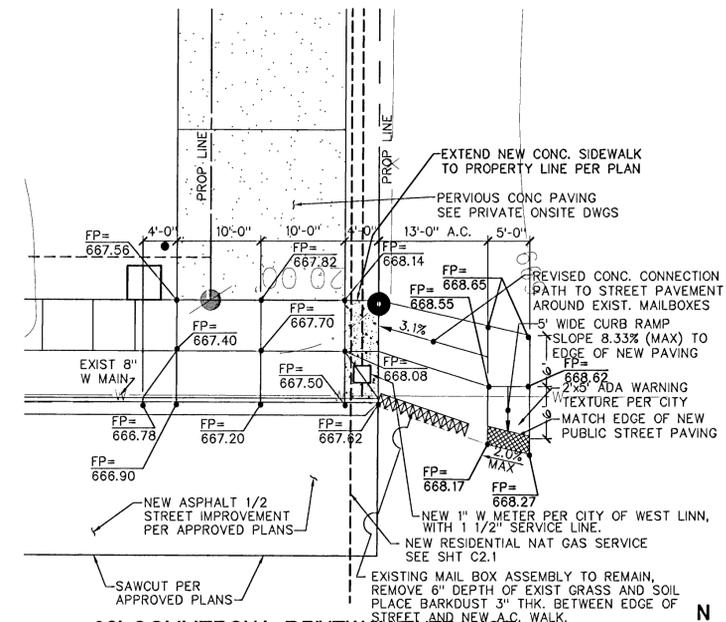
12-26-2010 AS-BUILTS  
 (Mark Date of any Description)

West Linn Ward  
 Lake Oswego OR Stake  
 Rosemont Road & Shannon Lane  
 West Linn, Oregon

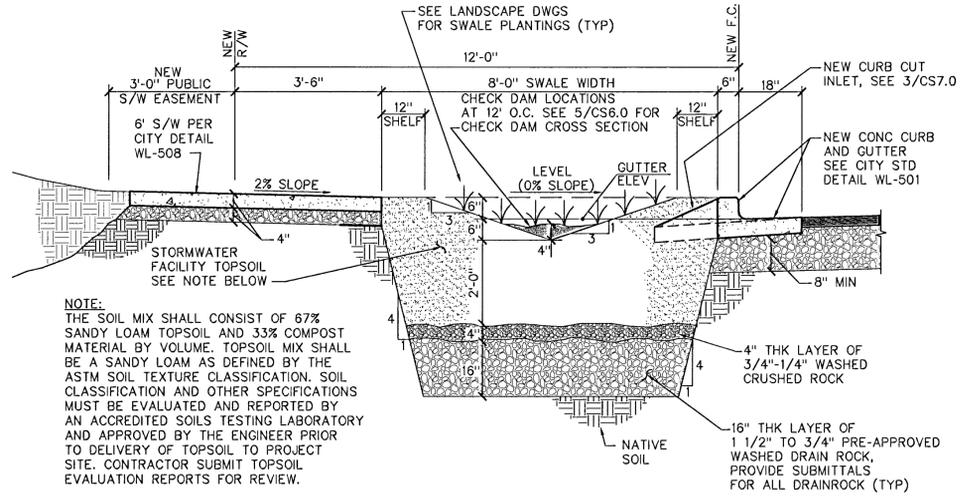


DATA	POINT	STATION	F.L. GUTTER
CURVE $\Delta$ AT F.C.	P.O.C.	ROSEMONT ROAD STA 7+39.00, 24' LT	664.30
R=25'	1/4 $\Delta$		663.86
DELTA=102' 4" 41.5'	1/2 $\Delta$		663.60
L=44.5'	3/4 $\Delta$		663.86
CHORD=38.88'	P.O.T.	SHANNON LANE STA 1+60.44, 24' LT	664.30

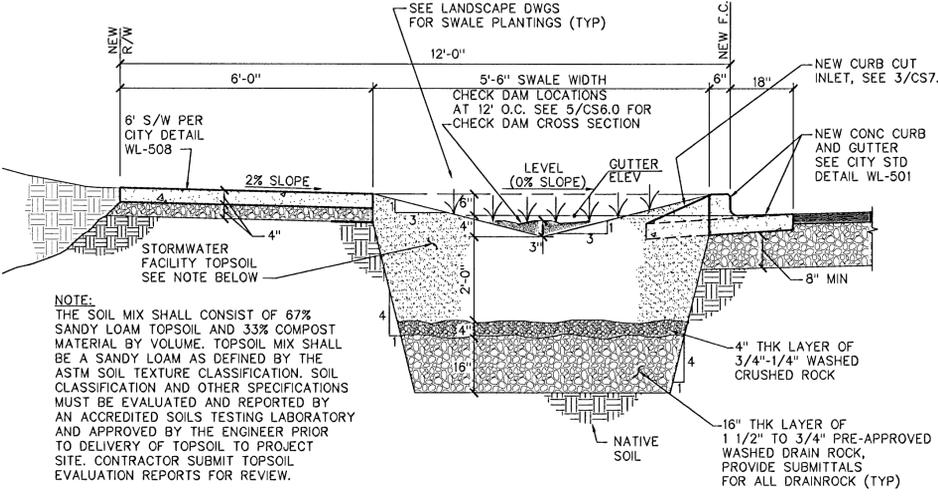
NOTE: CONSTRUCT PER CITY STD DWG #507B, SHT CS9.0



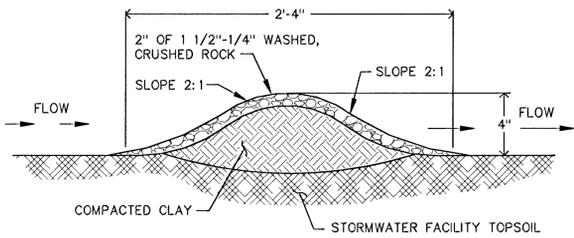
**2** 20' COMMERCIAL DRIVEWAY ENTRANCE  
SHANNON LANE STA 6+68.29, 18' LT  
SCALE: 1"=10'-0"



**3** SHANNON LANE - STREET SWALE TYPICAL SECTION  
N.T.S.

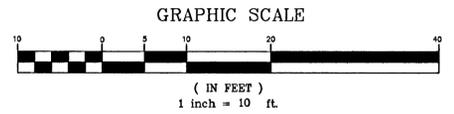


**4** ROSEMONT ROAD - STREET SWALE TYPICAL SECTION  
N.T.S.



**5** SWALE CHECK DAM DETAIL  
N.T.S.

NOTE: CHECK DAMS ARE REQUIRED IN SWALES TO ALLOW WATER TO POOL AND INFILTRATE INTO THE GROUND. THEY SHALL BE CONSTRUCTED OF DURABLE, NON-TOXIC MATERIALS SUCH AS ROCK AND SOIL BY INTEGRATING THESE MATERIALS INTO THE GRADING OF THE SWALE. CHECK DAMS ARE AS LONG AS THE WIDTH OF THE SWALE, PERPENDICULAR TO FLOW LINE. THEY GENERALLY FORM A 12 INCH WIDE BENCH ON TOP AND MEASURE 4 TO 10 INCHES HIGH, DEPENDING ON THE DEPTH OF THE FACILITY.



Architect / Engineer:  
**MC SWAIN & WOODS ARCHITECTS**  
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REGISTERED PROFESSIONAL ENGINEER  
OREGON  
COLE G. PRESTIUS  
MAY 18, 1984  
RENEWS: 12-31-2012

Project for:  
**West Linn Ward  
Lake Oswego OR Stake**  
Rosemont Road & Shannon Lane  
West Linn, Oregon

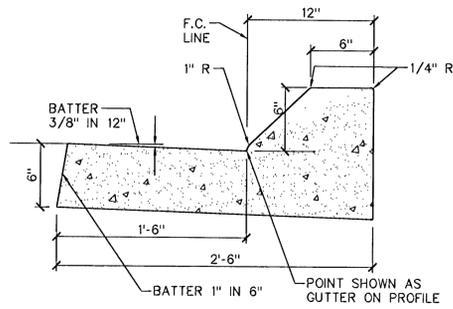
Project for:  
**THE CHURCH OF  
JESUS CHRIST  
OF LATTER-DAY SAINTS**

Mark	Date (m/y)	Description

Project Number:  
563-1459-0801-0201  
Plan Series:  
PIER-TRA-98-14  
Property Number:  
563-1459

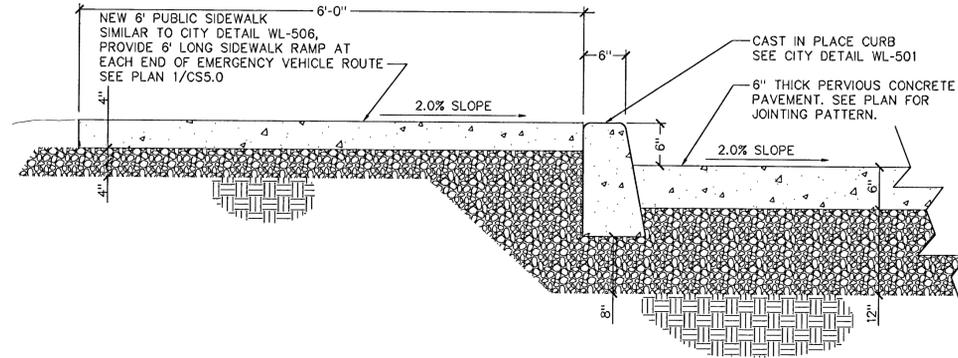
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**PUBLIC STREET  
IMPROVEMENT  
DETAILS**

Sheet:  
**CS6.0**

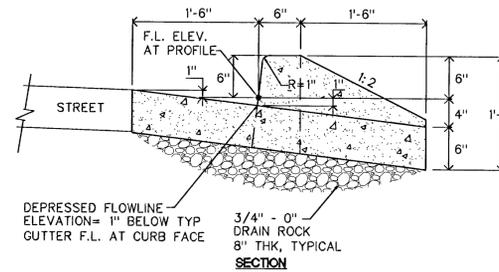
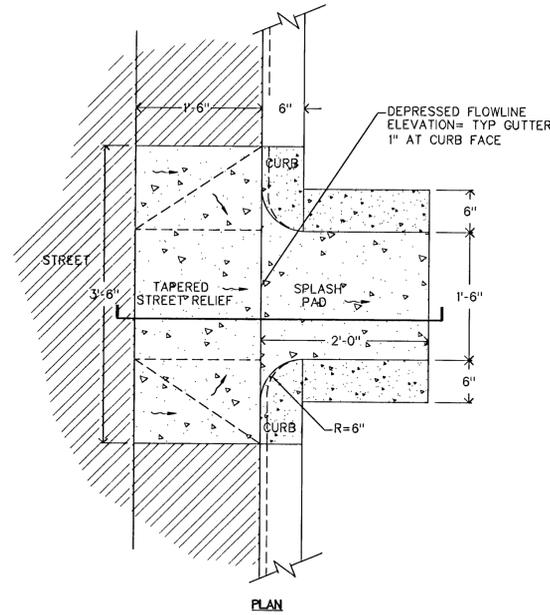


- CURB TO BE CONSTRUCTED OF 3300 psi 2"-4" SLUMP CONCRETE.
- TRANSVERSE CONTRACTION JOINTS TO BE CONSTRUCTED AT INTERVALS NOT TO EXCEED 15'.
- SEE CITY DETAIL WL-501 FOR ADDITIONAL JOINTING AND BASE ROCK NOTES.

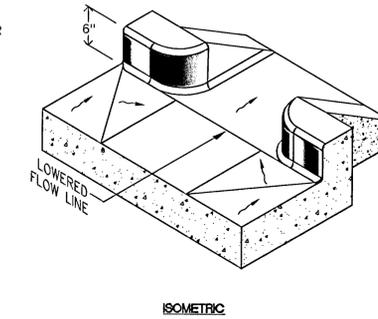
**1** MODIFIED MOUNTABLE CURB WITH GUTTER  
 CS7.0 1 1/2" = 1'-0" CURB&PAVEMENT / ModCurb&Gutter



**2** PEDESTRIAN WALK BESIDE EMERGENCY VEHICLE ROUTE  
 CS7.0 1" = 1'-0"



**3** CONCRETE GUTTER INLET AT STREET SWALES-SHANNON LANE  
 CS7.0 NTS



ISOMETRIC

Architect / Engineer:

**MCSWAIN & WOODS ARCHITECTS**  
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 Ashland, OR 97520  
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West Linn Ward  
 Lake Oswego OR Stake  
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Project for:  
**THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS**

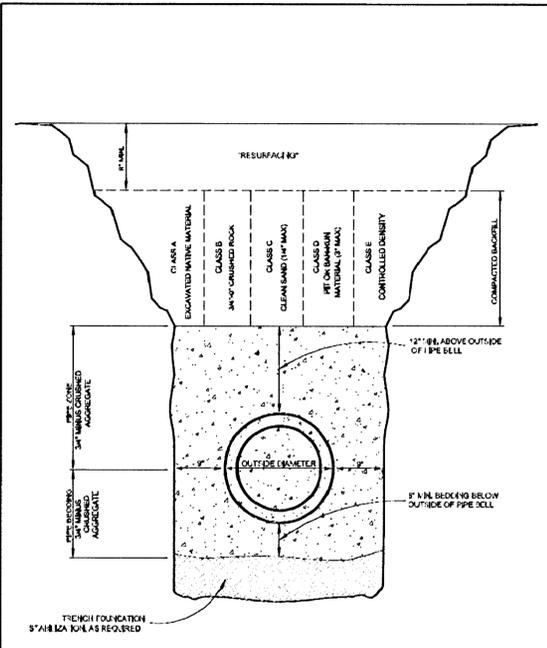
12-20-2010	AS-BUILTS	Description

Project Number:  
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 Plan Series:  
 HER-TRA-98-14  
 Property Number:  
 563-1459

Sheet Title:  
**PUBLIC STREET IMPROVEMENT DETAILS**

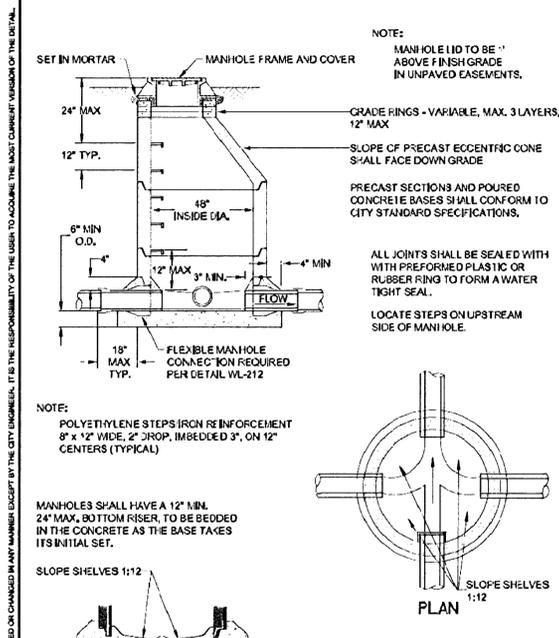
Sheet:  
**CS7.0**

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.



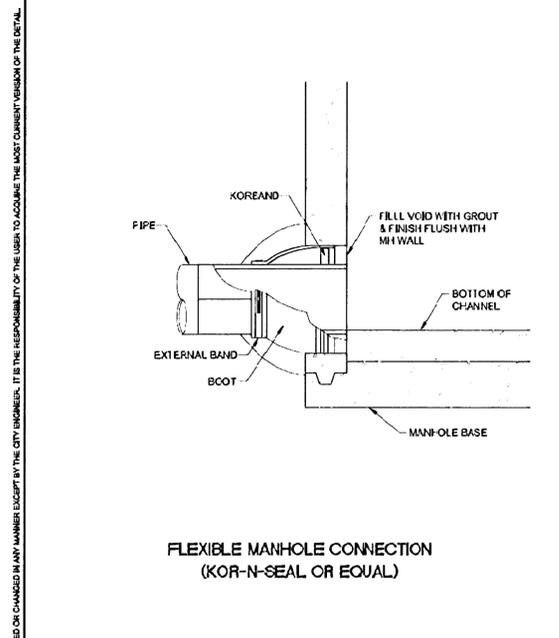
**TRENCH BACKFILL BEDDING AND PIPE ZONE**

DATE: JULY 2008  
DRAWING NO: WL-200  
FILE NO:



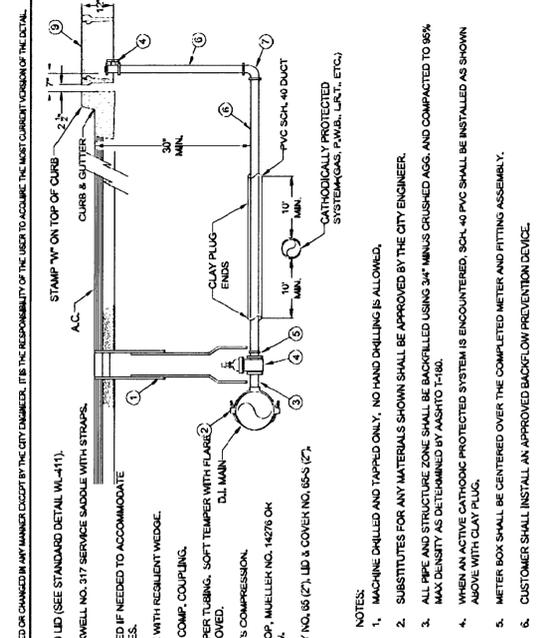
**STANDARD MANHOLE FOR LESS THAN 36" PIPE**

DATE: JULY 2008  
DRAWING NO: WL-207  
FILE NO:



**FLEXIBLE MANHOLE CONNECTION**

DATE: JULY 2008  
DRAWING NO: WL-212  
FILE NO:



**STANDARD 1 1/2 - 2" WATER SERVICE**

DATE: JULY 2008  
DRAWING NO: WL-212  
FILE NO:

**HORIZONTAL THRUST BLOCKING**

FITTING SIZE (inches)	TEEL W/VE HYDRANTS	STRADDLE BLOCK	90° BEND PLUGGED CROSS TEE PLUGGED RUNS	45° BEND	22 1/2° BEND	11 1/2° BEND
2	1.7	2.1	2.4	1.3	1.3	1.3
4	3.7	4.3	5.0	2.8	2.8	2.8
6	5.7	6.7	7.8	4.1	4.1	4.1
8	7.7	9.3	10.8	5.4	5.4	5.4
10	9.7	11.3	13.3	6.7	6.7	6.7
12	11.7	13.3	15.8	8.0	8.0	8.0
14	13.7	15.3	18.3	9.3	9.3	9.3
16	15.7	17.3	20.8	10.6	10.6	10.6
18	17.7	19.3	23.3	11.9	11.9	11.9
20	19.7	21.3	25.8	13.2	13.2	13.2
24	23.7	25.3	30.8	15.8	15.8	15.8
30	29.7	31.3	37.8	19.8	19.8	19.8
36	35.7	37.3	44.8	23.8	23.8	23.8
LARGER	**	**	**	**	**	**

BEARING AREA OF THRUST BLOCKS (sq. ft.)

1. ALL VALUES ARE BASED ON THE FOLLOWING ASSUMPTIONS: AVG. PRESSURE = 100 PSI X 2 (safety factor); 1800 PSF SOIL BEARING CAPACITY; NORMAL DISTRIBUTION DESIGN VELOCITY NOT TO EXCEED 8 F/S.

2. ALL FITTINGS SHALL BE WRAPPED IN 6 MM PLASTIC PRIOR TO PLACEMENT OF CONCRETE.

3. BEARING SURFACE OF THRUST BLOCKING SHALL BE AGAINST UNDISTURBED SOIL.

4. ALL CONCRETE MIX SHALL HAVE A MIN. 28 DAY STRENGTH OF 3000 PSI.

5. ALL PIPE ZONES SHALL BE GRAVEL FILLED AND COMPACTED.

6. THRUST BLOCKS FOR PLUGGED CROSS AND PLUGGED TEE SHALL HAVE #4 REBAR LIFTING LOOPS INSTALLED AS SHOWN.

7. VERTICAL THRUST DETAILS-SEE DWG. WL-407.

8. STRADDLE BLOCK DETAILS-SEE DWG. WL-408.

DATE: JULY 2008  
DRAWING NO: WL-408  
FILE NO:

**VERTICAL THRUST BLOCKING**

1. GRAVITY VERTICAL THRUST BLOCKS SHALL BE DESIGNED BY THE ENGINEER.

2. KEEP CONCRETE CLEAR OF JOINT AND JOINT ACCESSORIES. FITTINGS SHALL BE WRAPPED IN 6MM PLASTIC PRIOR TO PLACEMENT OF CONCRETE.

3. CONCRETE THRUST BLOCKING SHALL BE POURED AGAINST UNDISTURBED EARTH.

4. CONCRETE MIX SHALL HAVE A MIN. 28 DAY STRENGTH OF 3000 P.S.I.

5. THRUST BLOCK VOLUMES FOR VERTICAL BENDS HAVING UPWARD RESULTANT THRUSTS SHALL BE BASED ON TEST PRESSURE OF 180 PSI AND THE WEIGHT OF CONCRETE = 4000 LBS./CU.YD.

6. VERTICAL BENDS THAT REQUIRE A THRUST BLOCK VOLUME EXCEEDING 8 CURB YARDS REQUIRE SPECIAL BLOCKING DETAILS. SEE PLANS FOR VOLUMES SHOWN INSIDE HEAVY LINE IN TABLE BELOW.

7. PAYMENT SHALL BE THE SAME AS FOR HORIZONTAL THRUST BLOCKS.

8. ALL REBAR SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM-123 (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.

9. FOR HORIZONTAL THRUST BLOCK DETAILS SEE DWG NO. WL-408.

FITTING SIZE	22 1/2°	11 1/4°
4"	1.1	0.4
6"	2.7	1.0
8"	4.0	1.6
10"	6.0	2.3
12"	8.5	3.2
14"	11.5	4.3
18"	14.8	5.6

DATE: JULY 2008  
DRAWING NO: WL-407  
FILE NO:

**STANDARD FIRE HYDRANT ASSEMBLY**

DATE: JULY 2008  
DRAWING NO: WL-401  
FILE NO:

**STANDARD SANITARY SEWER CROSSING**

DATE: JULY 2008  
DRAWING NO: WL-409  
FILE NO:

Architect / Engineer:

**McSWAIN & WOODS ARCHITECTS**  
1400 SE BARNHARTMAN HWY, SUITE 200  
MEDFORD, OR, 97504  
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Stamp: REGISTERED PROFESSIONAL ARCHITECT  
COLE G. PRESTIUS  
MAY 19, 1984  
RENEWS: 12-31-2012

West Linn Ward  
Lake Oswego OR Stake

Rosemont Road & Shannon Lane  
West Linn, Oregon

Project for:

**THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS**

Project Number: 563-1459-0801-0201  
Plan Series: HER-TRA-98-14  
Property Number: 563-1459

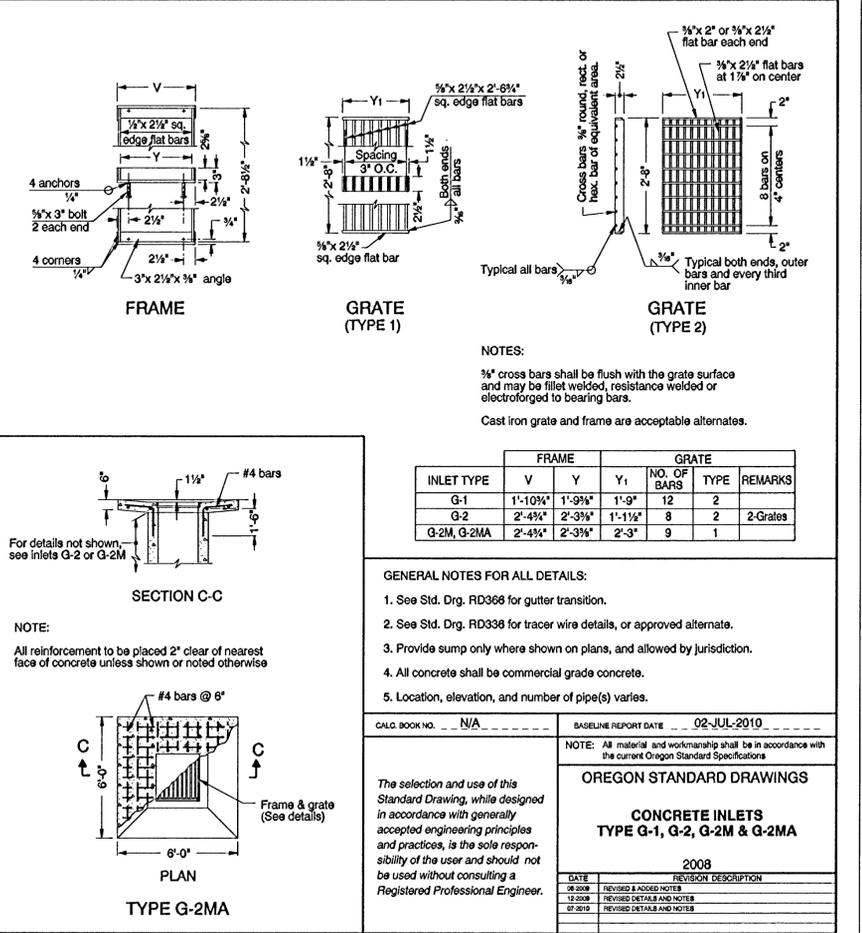
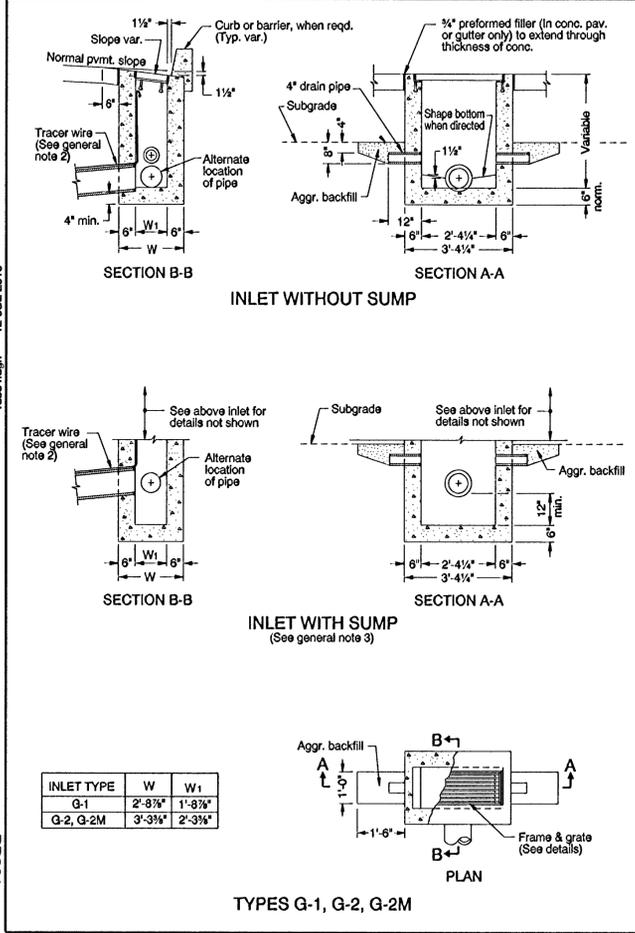
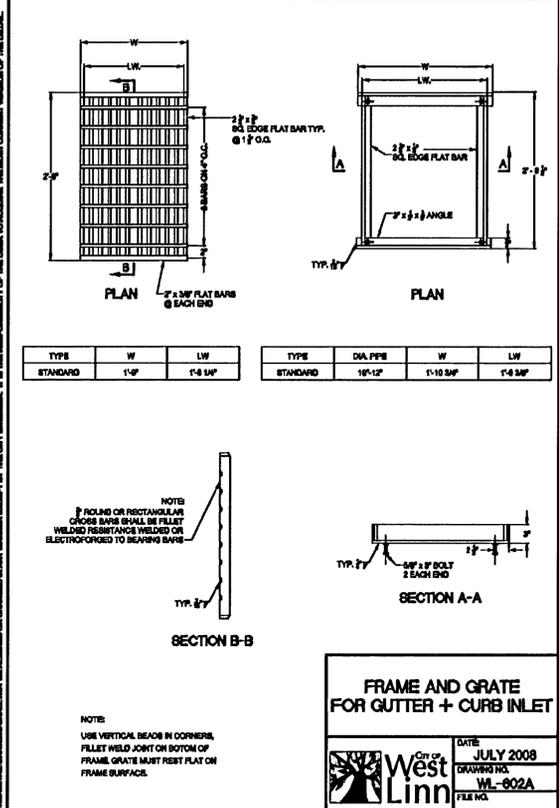
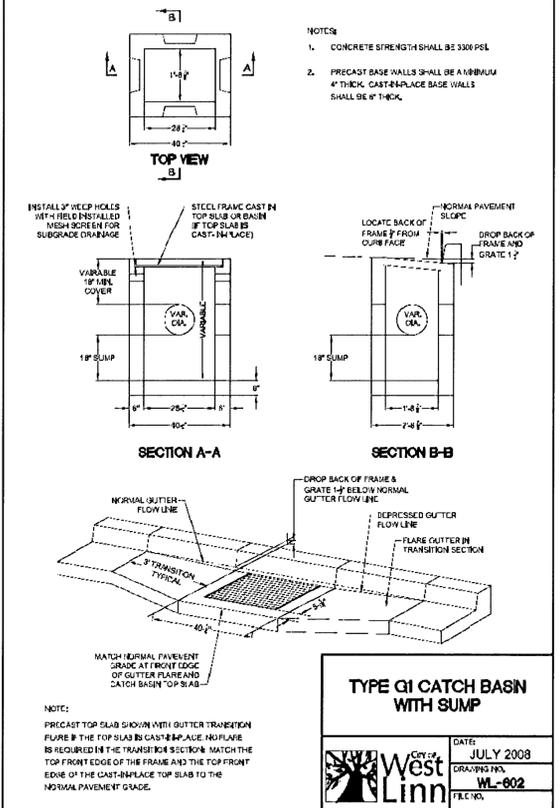
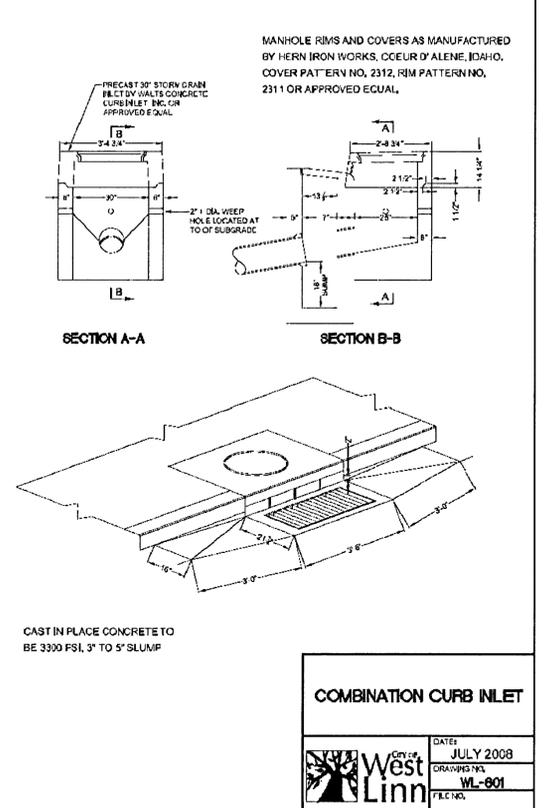
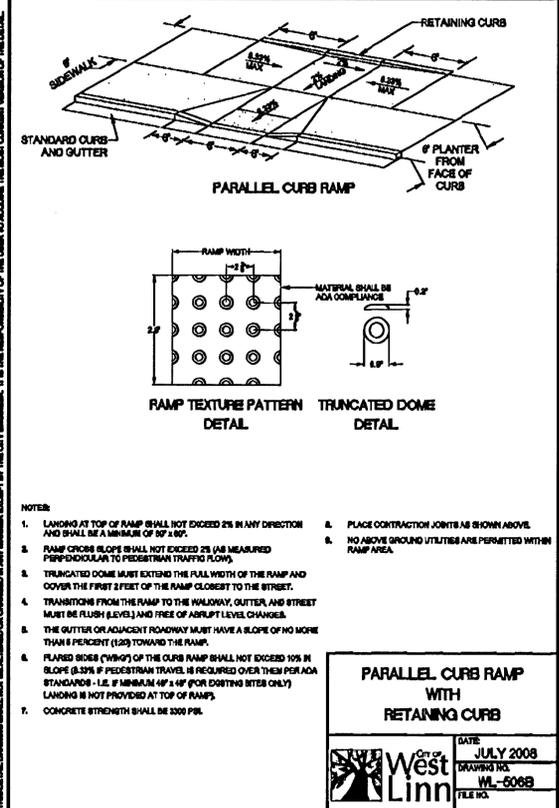
Sheet Title:

**PUBLIC STREET IMPROVEMENT DETAILS**

Sheet:

**CS8.0**





Architect / Engineer:  
**MCSTAIN & WOODS ARCHITECTS**  
1400 SE Hawthorne Blvd., Suite E-206  
Multnomah, OR 97220  
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Stamp:  
**REGISTERED PROFESSIONAL ENGINEER**  
**COLE G. PRESTIUS**  
RENEW: 12-31-2012

Project for:  
**West Linn Ward  
Lake Oswego OR Stake**  
Rosemont Road & Shannon Lane  
West Linn, Oregon

Project for:  
**THE CHURCH OF  
JESUS CHRIST  
OF LATTER-DAY SAINTS**

12-20-2010	AS-BUILTS	Mark	Date	Description

Project Number:  
563-1459-0801-0201  
Plan Series:  
HER-TRA-98-14  
Property Number:  
563-1459

Sheet Title:

**PUBLIC STREET  
IMPROVEMENT  
DETAILS**

Sheet:

**CS10.0**



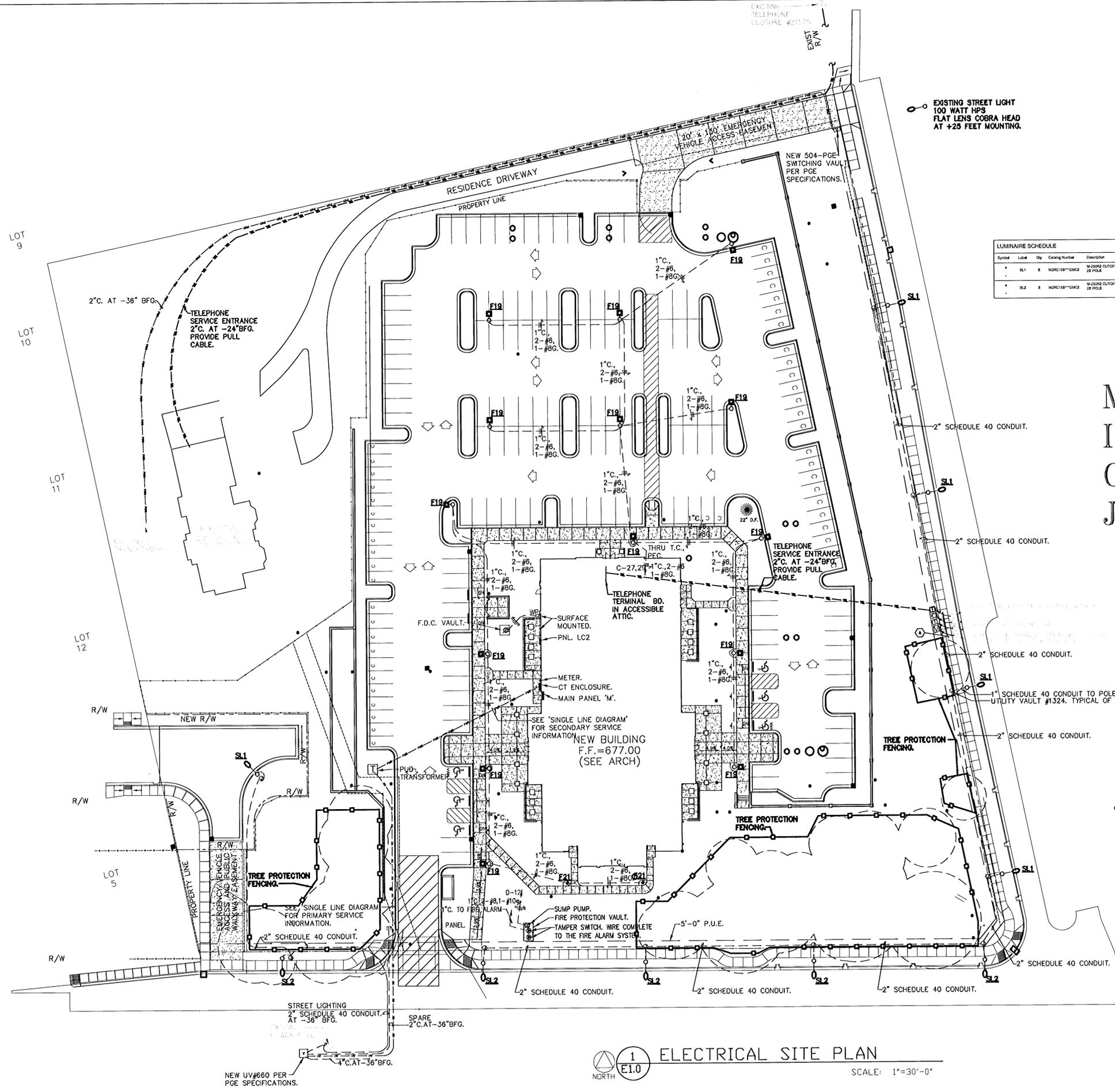
7	10 FEB 10	RE-ROUTING OF CONDUITS
6	8 SEP 09	ADD CONTACT INFO
5	8 SEP 09	RELOCATE UTILITIES
4	8 SEP 09	ADD STREET LIGHT COND. PER PGE
3	14 MAY 09	ADD OF TREE PROT. FENCES
2	4 MAY 09	REV. & ADD. OF UTILITIES
1	15 OCT 08	PERMIT DRAWINGS

Mark Date (month/year) Description

Project Number:  
563-1459-0801-0201  
Plan Series:  
HER-TRA-98-14  
Property Number:  
563-1459

**ELECTRICAL SITE PLAN**

**E1.0**



LUMINAIRE SCHEDULE

Symbol	Label	Qty	Catalog Number	Description	Lamp	File	Lumens	LLF	Watt
*	S1	8	MJRC158**GMC2	M-250R2 CUTOFF 29 POLE	1-150W HPS, CLEAR ED3 & HCRZ	GE177209 ES	9500	1.00	116
*	S2	5	MJRC158**GMC2	M-250R2 CUTOFF 29 POLE	1-150W HPS, CLEAR ED3 & HCRZ	GE177209 ES	16000	1.00	185

MYLAR ASBUILTS  
ISSUED TO CITY  
OF WEST LINN  
JAN. 14, 2011

NOTE:  
SEE PGE LAYOUT PLAN SHEET 1 OF 1, JOB #568616.

NOTE:  
RELOCATE THE EXISTING TELEPHONE CLOSURE #21695, CATV PEDESTAL, PGE TRANSFORMER #PD 10415 AND PGE VAULT #VT 10414. EXTEND AND RE-CONNECT THE EXISTING COMPLETE.

**PROJECT UTILITY CONTACT INFORMATION:**

**POWER: PGE**  
ELECTRICAL SERVICE DESIGN FOR NEW CHURCH BUILDING AND EXISTING RESIDENCE:  
BOBBY DANIELSON  
PHONE: 503-742-8483  
ELECTRICAL SERVICE DESIGN FOR NEW STREET LIGHTS:  
LORI SWANSON  
PHONE: 503-742-8322  
**TELE-COMMUNICATIONS: QWEST**  
DON ROSS  
PHONE: 503-399-4302  
**CATV COORDINATION: COMCAST**  
JAMIE STENCIL  
PHONE: 1-888-632-2253