

City of Central Point FY 2015 TMDL Action Plan

Duration:

July 1, 2012 through June 30, 2013

Annual Report Deadline:

September 30, 2013

Action Plan Administrator:

Mike Ono

541.664.7602, Ext. 243

Mike.ono@centralpointoregon.gov

FY 2014 Action Plan Overview:

This is a transitional year for the TMDL program due to staff changes. This year's program aims to maintain existing activities for Objectives #1 and #2, to implement a stormwater retrofit on Freeman Road, and to develop program capacities in communication and staff training. It is worth noting that the Freeman Road Stormwater Retrofit will utilize 100% of the SWQ capital improvement funds for this fiscal year and next fiscal year. Due to this occurrence, runoff reduction activities are limited. Construction of the Jewett Stormwater Swale has been moved FY 2016-2017.

Objective #1: Promoting Cultural Awareness

Promote cultural awareness of water quality problems, sources and solutions.

ACTION	DESCRIPTION	BUDGET	PERFORMANCE MEASURE(S)	DELIVERABLES
Stream Smart Campaign	Regional DMAs, DEQ and the BCWC are partnering to develop and launch this campaign to promote "Stream Smart" behavior.	In-kind hours as needed.	Contribute in kind hours as needed toward campaign activities.	Summary of participation and copies of work products as applicable.
City Newsletter Articles	City Newsletter is distributed to all CP water bill customers 6K+ residents. Articles published will address: <ul style="list-style-type: none"> • What is Stormwater • SD dumping regulations • Riparian functions, restoration. • Pet Waste/bacteria connection and pollution prevention. 	Staff time	Publish 3 articles	Copy of newsletter editions with published articles.
Water Quality Web Pages	Develop and launch new water quality web pages that include information about stormwater and TMDL topics. Keep updated.	Staff time	Launch new website.	New website URL and summary.

Objective #2: Enhancing the Urban Forest Canopy

Enhance the urban forest canopy, especially in riparian areas, to promote cooling of stormwater and instream water as opportunities and funds are available.

ACTION	DESCRIPTION	BUDGET	PERFORMANCE MEASURE(S)	DELIVERABLES
Tree Planting	Plant trees within the City limits for new and redevelopment projects, Capital Improvement Projects, and special street tree or riparian tree planting projects.	\$5,000 – SW Quality Fund	26-31 Trees Planted: 6 – Freeman Road 20-25 – Bear Creek	Planting summary provided in GIS shapefile.
Arbor Day Celebration	Promote tree planting and care as part of the CP Arbor Day Celebration.	\$3.5K – Parks	Celebration in April with educational and interactive events.	Celebration details, documentation and photos.
Reach by Reach Riparian Restoration	Implement program as a pilot to test local interest and effectiveness of reach by reach restoration.	\$2.5K – SWQ, SW Projects	Lineal feet of stream reach restored; # participants	Before/after photos, Program evaluation.

Objective #3: Reducing Surface Water Runoff

Reduce surface water runoff into local waterways to reduce pollution from a wide variety of sources including but not limited to temperature and bacteria.

ACTION	DESCRIPTION	BUDGET	PERFORMANCE MEASURE(S)	DELIVERABLES
Freeman Road Stormwater Retrofit	Install 6 Filterra devices in the public right-of-way with street trees, and 120 lineal feet of 36" detention pipes and 300 lineal feet of 60" detention pipes.	\$50K-SWQ \$62K-SW \$90K-Water \$105-Streets	Conduct stormwater retrofit.	Before/after pictures.

Objective #4: Leading by Example

Become a "Stream Smart City" by ensuring that day to day municipal operations and business is conducted in a manner that demonstrates excellence in stream stewardship.

ACTION	DESCRIPTION	BUDGET	PERFORMANCE MEASURE(S)	DELIVERABLES
Interdepartmental Communications	Enhance and maintain communications between Environmental Services and the Parks & Field Operations staff to promote awareness of TMDL targets, pollution prevention and partnering opportunities.	Staff time	Improved and consistent communications between ES & Parks and Field Operations	Summary of communications protocols, effectiveness evaluation, and recommendations as needed.
Staff Training	Attend training(s) related to water quality, TMDLs, LID, stormwater management and/or urban forestry.	\$2K, SWQ Training	Classes attended that build staff knowledge.	Class name, date, description and certificate(s) of attendance if provided.



TMDL Annual Action Plan Documentation Summary Fiscal Year 2015

Objective #1 – Promoting Cultural Awareness

There are no supporting documents related to activities proposed for FY 2015 because all activities are to be carried out by Public Works staff. This year, Mike Ono, is taking over the program and the primary focus will be on continuing activities from last year, including Stream Smart participation as opportunities arise, publishing newsletter articles, and maintaining the new City web information for Stormwater and TMDL programs.

Objective #2 – Enhancing the Urban Forest Canopy

1. Tree Planting. This year, the City has budgeted \$5,000 in the Stormwater Fund, Contract Services to plant trees to enhance the urban forest canopy. Tree planting priorities for the public right-of-way are typically associated with capital improvements; however, we identify other infill priorities when budget funds and landowner cooperation allows irrigation installation and tree planting. Other priorities in coming years will focus on riparian area planting and other locations as opportunities arise. Program documentation includes:
 - a. Stormwater Fund Budget
2. Arbor Day Celebration. This City hosts an annual Arbor Day celebration. We try to coordinate events to benefit local waterways. The budget for this comes from the Parks budget. Program documentation includes:
 - a. Parks Budget
3. Reach by Reach Restoration Pilot Program. During the last fiscal year, the City added a line item in the Stormwater Quality Fund called “Stormwater Quality Projects.” This amount budgeted is \$2.5K. With these funds, the City will help pay for the cost of implementing the program. Additionally, there is \$10K budgeted under Contract Services. A large portion of these funds is allocated to fund program assistance by RVCOG. One of the work items in this year’s contract is to coordinate implementation of the pilot program. Activity Documentation includes:
 - a. Stormwater Quality Budget
 - b. RVCOG Professional Services Agreement

Objective #3 – Reducing Surface Water Runoff

Freeman Road Stormwater Retrofit. Previous plans to build the Jewett Stormwater Swale project designed in the last fiscal year have been delayed due to cost overruns on the Stormwater Quality Retrofit for Freeman Road. For that reason, we have adjusted our Action Plan to include only the Freeman Road Stormwater Retrofit for this year. Activity documentation includes:

1. The project Stormwater report.

Objective #4 – Leading by Example.

Staff changes in the Environmental Coordinator position, which administers the TMDL and NPDES Phase II programs occurred in April of 2014. This year's program for Leading by Example emphasizes staff training and establishing/maintaining interdepartmental communications as follows:

1. Interdepartmental Communications. The new coordinator will spend time establishing a protocol that is effective for him to maintain and will report on communication effectiveness as part of the FY 2015 annual report. There is no supporting documentation for this activity.
2. Staff Training. The Stormwater Quality Fund established a \$2.5K budget for staff training. The new program coordinator is seeking out training opportunities to bolster knowledge of the program and water quality issues in general, including Low Impact Development, ACWA events, etc. DEQ is encouraged to share known training opportunities to the City to promote enhanced capacity for effective program development and implementation. Activity documentation includes:
 - a. Stormwater Quality Fund budget.

Supporting documentation is provided in the order presented in this summary. If you have any questions, please contact Mike Ono at mike.ono@centralpointoregon.gov or 541.664.7602, Ext. 243.

Stormwater Fund

Overall Goal

The function of this fund is to protect the quality of storm water runoff generated within the City limits. This includes responding to hazardous material spills that may potentially discharge into the storm or sanitary sewer and enforcing construction rules for erosion control. The Storm Drain Utility division is responsible for installing, monitoring, maintaining, and cleaning the storm drain systems of the City. This division is also responsible for street sweeping. Lastly, the fund is responsible for implementing and enforcing rules and regulations from the Department of Environmental Quality (DEQ), Environmental Protection Agency (EPA) and the Federal Emergency Management Agency (FEMA).

Fund Resources: This fund is an enterprise fund; it is self-supporting with expenses paid from the storm utility fee.

The fund also has a specific storm water quality function that is also self-supporting.

Key Objectives

- Phase 2 Permit – maintain solid relationship with RVSS while revised Phase 2 permit is ongoing for maintenance of our storm water quality program
- Curb Inlet Retrofit- staff will be constructing the second round of a 10-year program for converting our catch basins to curb inlets
- Maintain drainage system capacity to protect streams, streets, and private property from flooding. Continue the system maintenance program of catch basin and curb inlet repair, and cleaning and vacuoring of system on a three year rotation. Maintain system flow capacities through open channel cleaning
- Comet SD Outfall – Construct Phase 1 of a multi-year program to alleviate flooding in the 10th/Victoria area
- Jewett School Water Quality Project – construct new bio-swale and overflow channel to help with water quality within the sub-basin

Performance Measures

- Storm Drain Cleaning: Cost to clean 1/3 of city system plus annual hot spots

	2012	2013	2014
Jetter rentals	\$18,000	\$15,000	\$0

- Floodplain/Community Rating System Review: track number of inquiries and public meetings to ensure citizens and business community are informed of program. Track number of inquiries annually

	2012	2013	2014
Dollar Amount	\$0	\$0	\$0

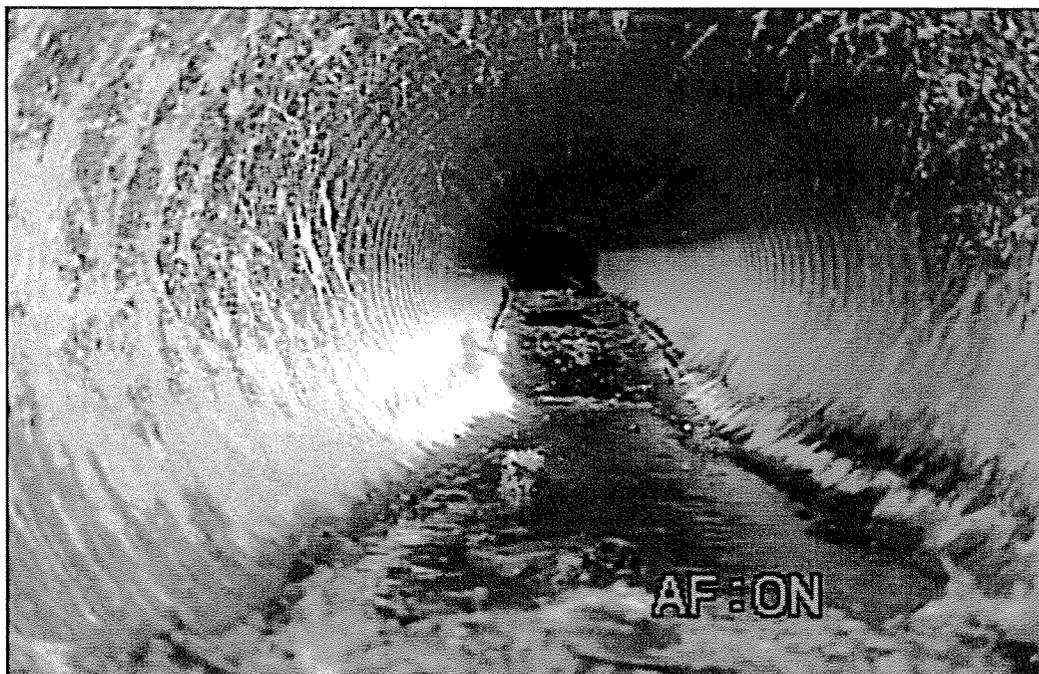
Dollar Value of Flood Damage Claims

2014/15 Department Goals

- Maintain CRS Rating
- Street Sweep all arterials/collectors weekly
- Limit localized and seasonal flooding
- Quickly verify water quality issues
- Inspect for illegal track out in new development
- Protect stream system from toxins

Revenues

Description	2012 Actual	2013 Actual	2014 Budget	2015 Adopted
Public Works Fees	426	0	0	150
SDC Stormwater Fees - Imp	30,621	68,750	25,000	30,000
SDC Stormwater Fees - Reimb	0	0	1,000	1,000
Stormwater Quality Fees	0	115,023	112,000	110,000
Stormwater Utility Fees	689,550	702,061	700,000	700,000
Total Charges for Services	720,597	885,834	838,000	841,150
Interest Income	2,396	4,402	5,000	4,000
Total Interest Income	2,396	4,402	5,000	4,000
Miscellaneous Revenue	3,407	711	0	0
Total Miscellaneous Revenue	3,407	711	0	0
Carryover Balance	380,506	476,752	606,300	731,390
Total Carryover Balance	380,506	476,752	606,300	731,390
Total Stormwater Revenues	1,106,906	1,367,698	1,449,300	1,576,540



Stormwater Fund

Expenditures

Description	2012 Actual	2013 Actual	2014 Budget	2015 Adopted
Salaries & Wages	119,249	126,701	139,800	143,700
Overtime Wages	690	630	3,500	3,400
City Taxes and Benefits	67,462	74,870	99,250	92,450
Total Personnel Services	187,400	202,201	242,550	239,550
City Facilities Rental	27,000	27,000	27,000	27,000
City Equipment Rental	40,000	40,000	40,000	45,000
City Overhead Fees	78,000	78,000	85,000	113,000
Public Works Overhead Fees	77,000	112,000	112,000	110,000
Bank/VISA Fees	0	3,990	5,000	5,000
Lease/Rentals	24,295	13,306	15,000	23,000
Travel/Training	3,156	2,960	3,000	3,500
Professional Services	9,070	10,311	15,000	15,000
Contract/Other Services	38,299	29,646	25,000	25,000
Infrastructure Maintenance	4,602	1,834	16,500	15,000
Clothing Allowance	754	1,820	1,500	1,500
Dues/Licenses	70	571	1,000	500
Office/Shop/Safety Supplies	2,381	4,913	5,000	4,000
Postage	0	1,020	3,500	2,000
Sm Equip/Tools/Furniture	9,110	0	5,000	8,600
Disposal	3,805	4,271	5,000	4,500
Phone/Internet	617	1,317	1,200	1,500
Total Materials & Services	318,158	332,959	365,700	404,100
Equipment	0	0	4,500	0
Prior Capital Projects	75,491	109,293	65,000	0
Comet Ave	0	0	0	62,000
Total Capital Projects	75,491	109,293	69,500	62,000
Debt Service (10th/Scenic/Upton)	10,000	0	9,000	9,000
Total Debt Service	10,000	0	9,000	9,000
Total Stormwater Operations/Capital Projects	591,049	644,452	686,750	714,650

Description	2012 Actual	2013 Actual	2014 Budget	2015 Adopted
Travel/Training	0	0	3,500	2,000
Professional Services	0	0	20,000	10,000
Contract/Other Services	0	57,996	45,000	45,000
Stormwater Quality Projects	0	0	0	2,500
Postage	0	0	3,500	2,500
Sm Equip/Tools/Furniture	0	3,225	0	0
Total Materials & Services	0	61,221	72,000	62,000
Crater/TWCrossing SW Retrofit	0	0	30,000	0
Jewett School Swale	0	0	0	50,000
Total Capital Projects	0	0	30,000	50,000
Total Stormwater Quality	0	61,221	102,000	112,000



Stormwater Fund

SDC

Description	2012 Actual	2013 Actual	2014 Budget	2015 Adopted
Prior Capital Projects	49,105	0	20,000	0
Comet Avenue (And Victoria)	0	0	0	11,000
Total Capital Projects	49,105	0	20,000	11,000
Debt Service -10th/Scenic/Upton	0	0	11,500	11,500
Developer Reimbursements	(10,000)	0	10,000	2,500
Total Debt Service	(10,000)	0	21,500	14,000
Total Stormwater SDC Capital Projects	39,105	0	41,500	25,000

Interdepartmental

Description	2012 Actual	2013 Actual	2014 Budget	2015 Adopted
Contingency	0	0	43,000	43,000
Total Contingency	0	0	43,000	43,000
Ending Balance	476,752	662,025	576,050	681,890
Total Ending Balance	476,752	662,025	576,050	681,890
Total Interdepartmental	476,752	662,025	619,050	724,890
Total Stormwater Requirements	1,106,906	1,367,698	1,449,300	1,576,540

Overall Goal

The goals of Central Point Parks Division is to preserve and enhance our parks and promote knowledge as well as public appreciation of aesthetics to the continued positive development of our community; to continually improve the availability and effectiveness of recreational, athletic, educational and park services that benefit the entire community; to generate an atmosphere of openness which promotes communication between the department and the citizens we serve; and to develop a quality strategic plan for the future growth in services and facilities.

Key Objective

- Re-evaluate current contracts to determine the most cost effective way to maintain all the parks and open spaces
- Develop a master plan for Parks and Recreation (should take about one year to complete)
- Ensure that all park equipment is maintained and replaced to ensure safety
- Working with schools, Pathways, and Goodwill on training programs to help increase our staff at low to no additional cost
- Begin a program to help with blackberry eradication along the Greenway
- Improve marketing of parks by an increased web presence using multimedia
- Continue expansion of recycling program to include paper and bottles in heavily used parks
- Continue working with recently adopted ADA plan to begin replacement of non-compliant materials as budget allows
- Work in partnership with schools, and Storm Water Quality Staff to help meet requirements for flood plain as well as recertification of Tree City USA program which will include an Arbor Day event and tree awareness program utilizing expertise of staff arborist
- Continue collaboration with other departments on special events
- Expand work on arboretum, as money is available, to provide another park for community use

Key Performance Measures

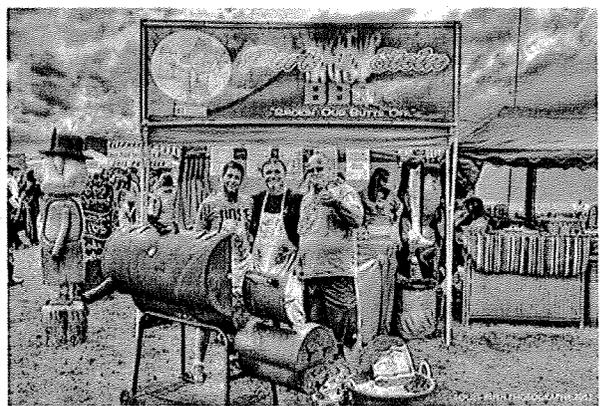
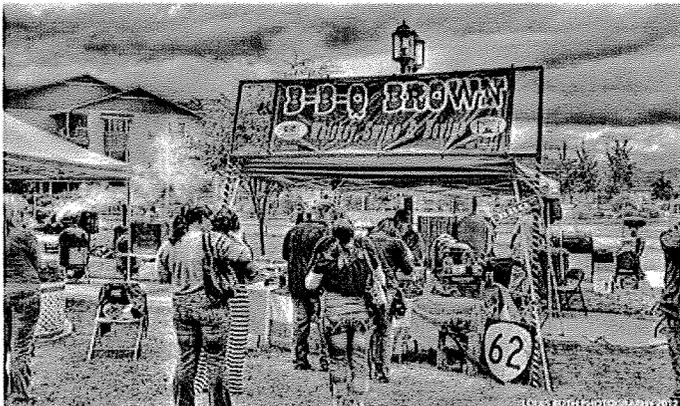
- Review of current contracts and replacement as needed to ensure best fiscal decisions are made
- Citizen survey that rates their opportunities for park and recreation facilities to assist in the master plan process
- Increase in partnerships with outside groups that provide labor training opportunities
- Re-certification of Tree City USA designation for 2nd year and help to meet storm water quality requirements at the same time
- Increase in park rental and use due to marketing
- Larger numbers of items recycled thus reducing the amount of trash and cost of trash service
- Increase attendance and participation in our Arbor Day event in partnership with Scenic Middle School
- Begin first phase of work on arboretum to accomplish master plan goals

2014/2015 Department Goals

- To complete at least two things on the ADA compliance plan. This goal will be accomplished by replacement of pea gravel at Van Horn Park to bring it up to ADA standards no later than October 2014 and hiring work crews to ensure that we have enough staff to complete the project in a timely fashion to stay in compliance with ADA plan
- Recertification of Tree City USA designation. By tracking the tree data, this will assist in Storm Water Quality program, increase shade density, and provide recognition of the importance of trees within the city, parks and open spaces
- Increase awareness of parks and open space availability through website and social media
- Increased financial stability of the parks division by increased sponsorships, partnerships and other revenue streams that help offset the dependence on general fund dollars

General Fund - Parks & Recreation - Parks

Description	2012 Actual	2013 Actual	2014 Budget	2015 Adopted
Salaries & Wages	235,070	235,982	245,400	237,900
Overtime Wages	7,730	6,817	6,500	6,500
City Taxes and Benefits	125,935	131,399	157,200	139,500
Total Personnel Services	368,735	374,197	409,100	383,900
City Facilities Rental	23,800	23,800	23,800	23,800
City Equipment Rental	34,000	30,000	30,000	32,000
Lease/Rentals	41	0	1,000	1,000
Travel/Training	6,618	8,877	2,000	3,000
Professional Services	755	3,221	3,000	3,000
Contract/Other Services	123,439	131,445	139,500	139,500
Building/Grounds Maintenance	65,812	76,774	112,000	118,600
Tree Maintenance: Tree City USA	0	0	0	8,000
Books/Publications	0	42	200	200
Clothing Allowance	1,452	1,530	1,200	1,200
Dues/Licenses	0	0	0	550
Office/Shop Supplies	2,061	2,785	3,000	3,000
Sm Equip/Tools/Furniture	664	1,753	2,000	2,000
Electric	20,527	37,882	24,000	24,000
Natural Gas	1,940	1,962	2,100	2,100
Phone/Internet	4,537	4,377	5,500	5,500
Water/Sewer/Stormwater	6,967	8,871	12,000	12,000
Total Materials & Services	292,614	333,319	361,300	379,450
Prior Year Capital Improvements	7,020	58,708	8,000	0
Van Horn Playground Equipment	0	0	0	15,000
Parks - Skyman Arboretum	0	9,799	7,000	5,000
Total Capital Projects	7,020	68,507	15,000	20,000
Total Parks	668,369	776,024	785,400	783,350



**CITY OF CENTRAL POINT
PROFESSIONAL SERVICES CONTRACT**

Stormwater Quality Program Assistance

This contract is made between the City of Central Point (City) and Rogue Valley Council of Governments (Consultant).

Consultant Information:

Full Legal name or business name: Rogue Valley Council of Governments

Address: P.O. Box 3275 City: Central Point Zipcode: 97502

Telephone: 541-664.6674 FAX: 541-664-7927

City and Consultant agree:

1. **Services to be provided.** Consultant will provide to the City the services set forth in Exhibit B.
2. **Effective Date or Duration.** This contract is effective on the date at which every party has signed this contract. This contract shall expire, unless otherwise terminated or extended, on June 30, 2015.
3. **Compensation.** City agrees to pay Consultant a sum not to exceed \$7,140 for the services to be provided. A written approval in the form of an amendment of this contract will be obtained where there will be changes in the scope of work, amount of contract or time. Payment will be made:
 - Upon completion; or,
 - City shall pay Consultant for services and reimburse Consultant for expenses incurred by Consultant in performance of services in accordance with the payment schedule provided in Exhibit C. No reimbursement will be made for expenses that are not specifically itemized in this payment schedule without prior approval by City. Consultant shall submit monthly invoices to City for Consultant's services on the 20th day of the month after the end of the month covered by the invoice. Total payments under this contract or any amendments shall not exceed the sum specified in this section 3.
4. **Authorized Consultant Representative.** The authorized representative for Consultant is Greg Stabach.
5. **Standard Contract Provisions.** Consultant shall comply with the City's Standard Contract Provisions for Professional Services as modified for this contract, a copy of which is attached as Exhibit A.

CITY OF CENTRAL POINT

CONSULTANT

By: _____

By: _____

Title: Parks & Public Works Director

Title: _____

Date: _____

Date: _____

SSN/Tax Id. No.: _____

CP Business License No.: N/A

Form 1099: On file: _____ Attached: _____

EXHIBIT A

CITY OF CENTRAL POINT CONTRACT PROVISIONS FOR PROFESSIONAL SERVICES

1. **Qualified Personnel.** Consultant has represented, and by entering into this contract now represents, that all personnel assigned to the services required under this contract are fully qualified to perform the service to which they will be assigned in a skilled and worker-like manner and, if required to be registered, licensed or bonded by the State of Oregon, are so registered, licensed and bonded.
2. **Contract Renewal.** The City shall have the option to renew this contract annually after the initial term has expired. Each renewal shall be with such modifications as may be agreed to by the parties in a written amendment of the contract, provided that the amendments made for any renewal term may not increase the total compensation to be paid to Consultant by more than 10 percent or increase the rate of compensation for any contract Service by more than 5 percent.
3. **Authorized Representative for City.** The City's authorized representative is either the City Manager, the Parks & Public Works Director, or a duly authorized representative.
4. **Notices.** Any notice permitted or required by this contract shall be deemed given when personally delivered or upon deposit in the United States mail, postage fully prepaid, certified, and with return receipt requested, to the persons and addresses shown below. In addition, if directions for telephonic transmission ("FAX") are set forth below, notices may be delivered by FAX. Notices sent by certified mail will be deemed delivered three business days after placement in the mail and notices sent by FAX will be deemed delivered when successful transmission is electronically confirmed. Except as expressly provided in the contract, required notices must be signed by the person designated to receive notices, or that person's designee or attorney.

Consultant: Authorized Representative named on pages 1 and 2 at address for Consultant listed on pages 1 and 2.

City: Authorized Representative (see section 3 of this page), 140 South Third Street, Central Point, Oregon 97502

Each party shall notify the other of any change in the name, address or FAX instructions to be used for delivery of notices.

5. **Termination.** Notwithstanding any other provision to the contrary, this contract may be terminated as follows:
 - 5.1. The parties, by mutual written agreement, may terminate this contract at any time.
 - 5.2. Either party may terminate this contract in the event of a breach of the contract by the other party.
 - 5.3. The City may terminate this contract at any time or for any reason, upon not less than ten days' notice in advance of the termination date.
 - 5.4. City may terminate this contract immediately upon Consultant's failure to have in force any insurance required by this contract.

Except as provided in section 6, in the event of a termination, City shall pay Consultant for work performed to the date of termination.

6. Remedies.

- 6.1. In the event of a termination of this contract by City because of a breach by Consultant, City may complete the Services either by itself or by contract with other persons, or any combination. Consultant shall be liable to City for any costs or losses incurred by City arising out of or related to the breach, including costs incurred in selecting other contractors, time-delay losses, attorney fees and the like, less the remaining unpaid balance of the consideration provided in this contract. City may

withhold payment of sums due Consultant for work performed to the date of termination until City's costs and losses have been determined, at which time City may offset any such amount due Consultant against the costs and losses incurred by City.

- 6.2. The foregoing remedies provided to City for breach of this contract by Consultant shall not be exclusive. City shall be entitled to exercise any one or more other legal or equitable remedies available because of Consultant's breach.
 - 6.3. In the event of breach of this contract by City, Consultant's remedy shall be limited to termination of this contract and payment for work performed to the date of termination.
 - 6.4. The Consultant shall be allowed to remedy a breach of this agreement by curing such breach or making reasonable progress toward its cure within 15 days after City has given written notice of alleged breach to Consultant.
 - 6.5. The City shall be allowed to remedy a breach of this agreement by curing such breach or making reasonable progress toward its cure within 15 days after Consultant has given written notice of the alleged breach to the City or upon five days' notice if work under this Agreement has been suspended by either City or Consultant for more than 30 days in the aggregate.
7. **Records/Inspection.** Consultant shall maintain records of its charges to City under this contract for a period of not less than 3 (three) full fiscal years following Consultant's completion of this contract. Upon reasonable advance notice, City or its authorized representatives may from time to time inspect, audit and make copies of any of Consultant's records that relate to this contract. If any audit by City discloses that payments to the Consultant were in excess of the amount to which Consultant was entitled under this contract, Consultant shall promptly pay to City the amount of such excess. If the excess is greater than one percent of the contract amount, Consultant shall also reimburse City its reasonable costs incurred in performing the audit.
 8. **Ownership of Work Product.** All work product of Consultant that results from this Agreement (the work product) is the exclusive property of City, once the Consultant has been paid for services rendered. City and Consultant intend that such work product be deemed "work made for hire" of which City shall be deemed the author. If for any reason the work product is not deemed "work made for hire," Consultant irrevocably assigns to City all its right, title, and interest in and to any and all of the work product, whether arising from copyright, patent, trademark, trade secret, or any other state or federal intellectual property law or doctrine. Consultant shall execute such further documents and instruments as City may reasonably request in order to fully vest such rights in City. Consultant forever waives any and all rights relating to the work product, including without limitation, any and all rights arising under 17 USC 106A or any other rights of identification of authorship or rights of approval, restriction or limitation on use or subsequent modifications. The City agrees to hold harmless and indemnify the Consultant from any and all liability whatsoever, associated with any reuse of work products generated by this work project, beyond the original purpose intended by this contract.
 9. **Indemnification.** Except for claims that relate to professional liability, Consultant shall defend, indemnify and save City, its officers, employees and agents harmless from any and all losses, claims, actions, costs, expenses, judgments, subrogations, or other damages resulting from injury to any person (including injury resulting in death,) or damage (including loss or destruction) to property, of whatsoever nature arising out of or incident to the performance of this agreement by Consultant (including but not limited to, Consultant's employees, agents, and others designated by Consultant to perform work or services attendant to this agreement). Consultant shall not be held responsible for damages caused by the negligence of City. If the claim or liability results from error or omissions in the products, results, analyses, opinions, recommendations, directions, designs, or other manifestation of Consultant's professional services, including any other professional act, error or omission that is subject to professional standards of care, the obligation of Consultant hereunder shall only exist to the extent of Consultant's negligence or willful misconduct.
 10. **Workers' Compensation.** If Consultant will perform the work with the help of others, Consultant shall comply with the Oregon Workers' Compensation law by qualifying as a carrier-insured employer or as a self-insured employer and shall strictly comply with all other applicable provisions of such law. Consultant shall provide the City with such further assurances as City may require from time to time that Consultant is in compliance with these Workers' Compensation coverage requirements and the Workers' Compensation law.

- 11. Insurance.** Consultant shall have and maintain the insurance policies specified below. Each policy of insurance shall be written as a primary policy, not contributing with or in excess of any coverage which City may carry. A copy of each policy or a certificate satisfactory to City shall be delivered to City prior to commencement of the Services. The adequacy of all insurance policies for compliance with this Section 11 shall be subject to approval by City's Risk Manager. Failure to maintain any insurance coverage required by the contract shall be cause for immediate termination of the contract by City.

Unless otherwise specified, each policy shall be written on an "occurrence" form with an admitted insurance carrier licensed to do business in the state of Oregon; and shall contain an endorsement entitling City to not less than 30 days prior written notice of any material change, non-renewal or cancellation. In the event the statutory limit of liability of a public body for claims arising out of a single accident or occurrence is increased above the combined single limit coverage requirements specified below, City shall have the right to require that Consultant increase the coverage limits of all liability policies by the amount of the increase in the statutory limit.

- 11.1. Commercial General Liability. Consultant shall maintain a broad form commercial general liability insurance policy with coverage of not less than \$1,000,000 combined single limit per occurrence, and as an annual aggregate, for bodily injury, personal injury or property damage. The policy shall have a contractual liability endorsement to cover Consultant's indemnification obligations under the contract. The policy shall also contain an endorsement naming City as an additional insured, in a form satisfactory to City, and expressly providing that the interest of City shall not be affected by Consultant's breach of policy provisions.
- 11.2. Workers' Compensation Insurance. Unless Consultant is exempt, Consultant shall comply with the Oregon Workers' Compensation law by qualifying as a carrier-insured employer or as a self-insured employer and shall strictly comply with all other applicable provisions of such law. Consultant shall provide City with such assurances as City may require from time to time that Consultant is in compliance with these Workers' Compensation coverage requirements and the Workers' Compensation law.
- 11.3. Comprehensive Automobile Liability. If Consultant will use a motor vehicle on a regular basis in the performance of the Services, Consultant shall maintain automobile liability insurance coverage of not less than \$1,000,000 combined single limit per occurrence for bodily injury, personal injury or property damage for each motor vehicle owned, leased or operated under the control of Consultant for, or in the performance of, the services.
- 11.4. Professional Liability. If Consultant is required to be licensed by the State of Oregon to perform the Services, Consultant shall maintain a professional liability insurance policy with coverage limits of not less than \$1,000,000 per claim, and a deductible or self-insured retention of not more than \$250,000 per claim to protect Consultant from claims by City or others for injury, loss or damage arising from or resulting from the wrongful or negligent performance or non-performance of, the Services. The policy shall contain an endorsement entitling City to not less than 60 days prior written notice of any material change, non-renewal or cancellation of such policy. This policy may be written on a "claims made" form, provided that continuous coverage is maintained to cover claims made within two years after completion of the Services.

- 12. Assignment/Subcontracting.** Consultant shall not assign this contract, in whole or in part, or any right or obligation, without City's prior written approval. Consultant shall require any approved subcontractor to agree, as to the portion subcontracted, to comply with all obligations of Consultant specified in this contract. Notwithstanding City's approval of a subcontractor, Consultant shall remain obligated for full performance of this contract and City shall incur no obligation to any subcontractor. Consultant shall indemnify, defend and hold City harmless from claims of subcontractors related to the performance of the Consultant's duties under this agreement.

- 13. Independent Contractor.** Whether Consultant is a corporation, partnership, other legal entity or an individual, Consultant is an independent contractor. If Consultant is an individual, Consultant's duties will be performed with the understanding that Consultant is a self-employed person, has special expertise as to the services which Consultant is to perform and is customarily engaged in the independent performance of the same or similar services for others. The manner in which the services are performed shall be controlled by Consultant; however, the nature of the services and the results to be achieved shall be specified by City.

Consultant is not to be deemed an employee or agent of City and has no authority to make any binding commitments or obligations on behalf of City except to the extent expressly provided in this contract.

- 14. Compliance with Laws/Business License.** Consultant shall comply with all applicable Federal, State and local laws, rules, ordinances and regulations at all times and in the performance of the Services, including, but not limited to those laws pertaining in nonresident contractors in ORS 279A.120 and all applicable provisions of ORS 279B.220, 279B.225, 279B.230, 279B.235, and 279B.240. Consultant shall obtain a City of Central Point business license as required by the city municipal code prior to beginning work under this contract. The Contractor shall provide a business license number in the space provided on pages one and two of this contract.
- 15. Governing Law.** This agreement shall be governed and construed in accordance with the laws of the State of Oregon. Any claim, action, or suit between City and Consultant that arises out of or relates to performance of this agreement shall be brought and conducted solely and exclusively within the Circuit Court for Jackson County, for the State of Oregon. Provided, however, that if any such claim, action, or suit may be brought only in a federal forum, it shall be brought and conducted solely and exclusively within the United States District Court for the District of Oregon.
- 16. Attorney Fees.** In the event of any action to enforce or interpret this contract, the prevailing party shall be entitled to recover from the losing party reasonable attorney fees incurred in the proceeding, as set by the court, at trial, on appeal or upon review.
- 17. Integration.** This contract embodies the entire agreement of the parties. There are no promises, terms, conditions or obligations other than those contained in this contract. This contract shall supersede all prior communications, representations or agreements, either oral or written, between the parties. This contract shall not be amended except in writing, signed by both parties.

EXHIBIT B
Stormwater Quality Program Assistance
Scope of Work

Task 1. Salmon Watch Program Implementation, Scenic Middle School. Total Task Cost = \$2,220.00

Subtask 1: Schedule Classes and Coordinate Logistics.

Schedule the Salmon Watch program with Scenic Middle School in the Fall of 2014 or Spring of 2015. Logistics include finding instructors, organizing transportation, and coordinating materials.

Estimated time = 4 hours

Estimated cost = \$320.00

Subtask 2: Implement the 2014-2015 Salmon Watch Program.

Teach classroom and field modules that are part of the Salmon Watch curriculum.

Estimated time = 16 hours plus 2 contracted instructors

Estimated cost = \$1,580.00

Subtask 3: Year 2 Program Evaluation

Conduct before and after program surveys of students, teachers and field instructors to gather information on the program success and to obtain feedback regarding improvement needs. RVCOG, City staff and other interested partners will review this information in a post-program de-briefing. Program modification suggestions will then be incorporated into a School District proposal for the 2015-2016 school year.

Estimated time = 4 hours

Estimated cost = \$320.00

Task 2. Reach by Reach Restoration Program Coordination – Total Cost - \$4,720.00

Subtask 1: Coordinate with City staff to identify (and map) priority reaches for restoration.

Estimated time = 4 hours

Estimated cost = \$320.00

Subtask 2: Contact landowners through direct mailing, in-person contact or other means to gauge interest in the program.

Estimated time = 12 hours, plus estimated cost of postage for targeted route

Estimated cost = \$1,060.00

Subtask 3: Obtain landowner agreements for program participation, including: private property access permission, maintenance and monitoring requirements. Task includes drafting requirements for the maintenance and monitoring and landowner agreements as needed.

Estimated time = 16 hours

Estimated cost = \$1,280.00

Subtask 4: Collaborate with OSU Extension to implement Streamside Gardening workshop for participants and any other interested landowners in Central Point. Track attendees and their addresses.

Estimated time = 4 hours plus cost of OSU Instructor if alternate funding is not found.

Estimated cost = \$620.00

Subtask 5: Work with Jackson SWCD, OSU Extension, and/or others to identify and potentially secure additional funding for a full Streamside Gardening Workshop and/or Landowner assistance for project implementation.

Estimated time = 8 hours.

Estimated cost = \$640.00

Subtask 6: Coordinate with City staff to organize and implement blackberry removal and restoration planting. Landowners and volunteer participants are preferred; however, contracted staff may be considered in the absence of a sufficient volunteer work party.

Estimated time = 4 hours.

Estimated cost = \$320.00

Subtask 7: Photo-document before and after conditions for reporting purposes.

Estimated time = 2 hours

Estimated cost = \$160.00

Subtask 8: Conduct pilot year program evaluation and establish recommendations for the proceeding year's implementation.

Estimated time = 4 hours

Estimated cost = \$320.00

Miscellaneous (mileage, supplies, printing, etc.)= \$200.00

Total Cost Estimate = \$7,140.00

EXHIBIT C
STORMWATER QUALITY PROGRAM ASSISTANCE
PAYMENT SCHEDULE

The following payment schedule outlines the invoice submittal deadlines for work performed in accordance with the scope of work set forth in Exhibit B throughout the contract period.

Invoice Period	Invoice Submittal Date
October 1 – 30, 2014	November 20, 2014
November 1 – 30, 2014	December 20, 2014
December 1 - 31, 2014	January 20, 2015
January 1 – 31, 2015	February 20, 2015
February 1 – 28, 2015	March 20, 2015
March 1 – 31, 2015	April 20, 2015
April 1 – 30, 2015	May 20, 2015
May 1 – 31, 2015	June 20, 2015

**STORMWATER MANAGEMENT REPORT
Freeman Road Improvements
City of Central Point
Jackson County, Oregon**

July 10, 2014



EXPIRES: 06/30/16

Prepared by:
Benjamin P. Wewerka, P.E.

Reviewed by:
Amy L. Jones, P.E.



Corporate Office:
OBEC Consulting Engineers
920 Country Club Road, Suite 100B
Eugene, Oregon 97401
541.683.6090

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APPENDICES

- Appendix A: NRCS Soils Map and Soil Data
- Appendix B: Stormwater Calculations
- Appendix C: Construction Plans

STORMWATER MANAGEMENT REPORT
Freeman Road Improvements
City of Central Point
Jackson County, Oregon

Overview

Introduction

This stormwater management report addresses the stormwater management design for the Freeman Road Improvements project. The purpose of this project is to provide full-width street improvements to Freeman Road from 400 feet north of Chestnut Street to Hopkins Road (see Figure 1 for vicinity map). The existing street is a paved two-lane road with open ditches and narrow shoulders. Project improvements will include complete reconstruction of the street with a new three-lane roadway section, bicycle lanes, curb and gutter, and sidewalks.

Regulatory Requirements

The purpose of this report is to present stormwater best management practices (BMPs) for conveyance, detention, and water quality treatment to be constructed as part of the project. The project is located within the Rogue Valley Sewer Services (RVSS) MS4 permit jurisdiction. As such and due to federal funding, stormwater management for this project will be designed to meet a combination of the requirements outlined in the ODOT *Hydraulics Manual*, 2011 and the requirements of the RVSS *Rogue Valley Stormwater Quality Design Manual*, 2008. The design for stormwater conveyance, quantity, and quality will be based on the most stringent standard of the governing agencies as outlined in Table 1 below. The project outfalls to Mingus Creek which is not on the Oregon Department of Environmental Quality 303(d) list for impaired waterways.

ODOT guidelines require all roadway stormwater runoff to be treated for water quality. Quantity management is only required when the new impervious surface increases runoff flows by 0.5 cfs or more. The guidelines for RVSS require treatment for water quality and water quantity for all new development or redevelopment, regardless of the amount of flow increase or decrease; therefore, detention will be provided for the project.

In order to meet the treatment requirements for the No-Effect Memo, a portion of the project will be treated to the higher ODOT treatment standard with the rest of the project addressed in accordance with RVSS requirements. The minimum required area to receive the higher treatment is 0.70 acres which is based on the area in the existing conditions that receives some level of treatment via the roadside ditches. The project treats 0.96 acres to the ODOT treatment standard.

Table 1: Stormwater Management Requirements

Design Criteria	Jurisdictional Requirement		Controlling Standard
	ODOT	RVSS	
Water Quality	Half of 2-year 24-hour post-development storm using the Santa Barbara Urban Hydrograph (SBUH) method	1.00 inches of runoff in 24 hours using the SBUH method	ODOT
Water Quantity			
Detention	10-year 24-hour post developed to 10-year pre-developed	10-year 24-hour post-development to 10-year 24-hour pre-(any) development using Rational Method (Default of 0.25cfs/acre)	RVSS
Bypass Routing/ Check Storm	25-year SBUH Method	25-year Rational Method	ODOT/ RVSS
Destination Analysis	Not required	Required analysis of 10-year storm event from project site to the closest <ul style="list-style-type: none"> • Perennial Stream • Constructed Pond or Wetland • Public Storm Sewer (determined to have adequate capacity) • Public Storm Sewer larger than 36" diameter 	RVSS

The BMPs selected for this project are proprietary filters. The BMPs selected provide effectiveness for the removal of sediments, hydrocarbons, and heavy metals (both dissolved and particulate), as shown in Table 2 below. Additional discussion on the facilities and their function is presented later in this report.

Table 2: Stormwater Facility Treatment Effectiveness¹

Pollutant	Proprietary Filters
Sediment/ Particulates	High
Nutrients	n/a
Hydrocarbons (oils & greases)	Moderate
Polycyclic Aromatic Hydrocarbons	n/a
Metals (Particulate)	High
Metals (Dissolved)	High

1. Stormwater facilities treatment effectiveness based upon Table 14-2 Key Pollutant Removal Capabilities for Water Quality Facilities in the ODOT *Hydraulics Manual*, 2011.

Site Investigations

Information regarding this site was gathered from several sources. OBEC field surveys provided locations of existing features and contours of the site. Additional on-site information was gathered from the US Department of Agriculture (USDA) National Resource Conservation Service (NRCS) Soil Survey of Jackson County Area, Oregon (see Appendix A) and geotechnical explorations performed by The Galli Group. For off-site areas, aerial photos were referenced to provide land use information. In addition, site visits by the engineer were performed to confirm information provided by the above sources.

Utilities

OBEC requested that the Oregon Utilities Notification Center mark the site for the location of existing utilities; OBEC field surveys then provided locations of the features. In the proposed design the stormwater management facilities are situated to prevent conflicts with existing utilities as much as practical.

Stormwater Management Design

Analysis Methods

The hydrologic and hydraulic analyses for the stormwater design were performed following ODOT and RVSS requirements as indicated in the regulatory requirements section above. Site hydrology was determined using the Santa Barbara Urban Hydrograph (SBUH) method within the Hydraflow Hydrographs program. While RVSS criteria show use of the Rational Method for the quantity management (detention) analysis, this would result in an undersized detention facility since there is not a well-developed hydrograph to account for runoff volume in this method. As such, the SBUH was used instead. Time of concentration (Tc) paths are calculated using the NRCS TR55 method. For all areas the Tc was set at a minimum of 5 minutes. Rainfall depths for the SBUH are interpolated from the National Oceanic and Atmospheric Administration (NOAA) Atlas 2, Volume X isopluvial precipitation maps.

Existing Freeman Road is a two lane open section street throughout most of the length of the project. Stormwater runoff sheet flows off the roadway into the roadside ditches and is conveyed to Mingus Creek. The vertical alignment of the roadway and the existing storm drain/culvert system create 5 distinct basins along the project length, these basins can be seen in the Existing Drainage Basin Map, Figures 2A-2B. According to RVSS requirements, quantity management is required to reduce post developed runoff rates to a natural level prior to any development on the site. A baseline flow of 0.25 cfs/acre is presented within the RVSS stormwater manual. The table below shows the existing basin areas along with the allowable natural on-site flow rates combined with existing off-site flow rates. A detailed breakdown of the natural on-site and existing off-site flows can be found in Appendix B.

Table 3: Existing Stormwater Flows

Basin	Area (acres)	Flow Rate (cfs)
I	1.03	0.37
II	3.22	1.30
III	1.98	0.84
IV	7.52	3.59
V	1.75	0.97

In the proposed conditions, Freeman Road is widened to incorporate two through lanes, a center turn lane, and also bicycle lanes for part of the project. The entire length of the proposed roadway is a closed section with curb and gutter. The 5 drainage basins from the existing conditions are adjusted in the proposed condition to better treat and detain the runoff prior to its entry into Mingus Creek. The proposed basins are shown on the Proposed Drainage Basin Map, Figures 3A-3B. The table below shows each basin with the flows as modeled under the proposed conditions along with the routed flows through the detention facilities. More detailed descriptions of the stormwater facilities follows in the text below.

Table 4: Proposed Stormwater Flows

Basin	Area (acres)	Proposed Flow Rate (cfs)	Routed Flow Rate (cfs)
I	1.03	0.53	0.37
II	3.22	1.91	0.73
III	1.98	1.16	1.16
IV	7.52	3.88	3.88
V	1.75	1.07	1.07

Facility Designs

Basin I is located at the north end of the project and receives treatment to the level required by the ODOT Stormwater Management program in addition to quantity management. Two Filterra water quality inlets are located at the north extents of the project and treat 0.29 acres. These inlets are approved per the ODOT Qualified Products List for treatment of dissolved metals which in the higher level of treatment are the main pollution constituent of concern. The table below shows the drainage areas and water quality design flow for each water quality inlet.

Table 5: Basin I – Water Quality Structure Flows

Water Quality Structure	Drainage Area	Area (acres)	Water Quality Flow Rate (cfs)
A	1	0.14	0.03
B	0	0.15	0.04

In addition, a detention pipe is placed beneath the center turn lane to reduce the flows in accordance with the RVSS criteria. The pipe is 36 inches in diameter and is 120 feet long with a flow control manhole in the center turn lane. The configuration of the system can be seen on plans presented in Appendix C. The table below summarizes the quantity management provided for Basin I. Calculations for the Basin I water quality and quantity analysis can be found in Appendix B.

Table 6: Basin I – Quantity Management Summary

	Flow Rates		Water Surface Elevation (ft)
	Basin (cfs)	Routed (cfs)	
10-Year Pre-Developed ¹	0.37		
10-Year Post-Developed	0.53	0.37	1271.24
25-Year Post-Developed	0.65	0.64	1271.34
100-Year Post-Developed	0.84	0.84	1271.38

1. The 10-year pre-developed storm event is based upon 0.25 cfs/acre runoff from onsite areas combined with 10-year pre-project flows from off-site areas.

Basin II is located along Freeman Road between Ash Street and Cedar Street and receives treatment to the level required by RVSS in addition to quantity management. A water quality manhole is located just south of Basin II at Sta. 17+89. The table below shows the contributing drainage areas and the water quality flow to the structure. A split flow manhole is placed upstream of the water quality manhole to put the water quality structure off-line and limit the high flow events from entering the water quality structure. This structure is designed to provide treatment for the majority of the project site. A breakdown of the drainage areas to the facility is provided in Appendix B.

Table 7: Water Quality Manhole Structure Flows

Water Quality Structure	Drainage Areas	On-site Area (acres)	Water Quality Flow Rate (cfs)
C	6 - 20	3.58	0.86

In addition, a detention pipe is placed beneath the center turn lane to reduce the flows in accordance with the RVSS criteria. The pipe is 60 inches in diameter and is 300 feet long with a flow control manhole in the center turn lane. The pipe is set 6 inches below the outlet elevation to provide sediment storage within the facility. The configuration of the system can be seen on the plans in Appendix C. The table below summarizes the quantity management provided for Basin II. Calculations for the Basin II water quality and quantity analysis can be found in Appendix B.

Table 8: Basin II – Quantity Management Summary

	Flow Rates		Water Surface Elevation (ft)
	Basin (cfs)	Routed (cfs)	
10-Year Pre-Developed ¹	1.30		
10-Year Post-Developed	1.91	0.73	1270.75
25-Year Post-Developed	2.34	1.75	1271.14
100-Year Post-Developed	3.00	3.00	1271.24

1. The 10-year pre-developed storm event is based upon 0.25 cfs/acre runoff from onsite areas combined with 10-year pre-project flows from off-site areas.

Basin III is located along Freeman Road between Cedar St and Bush St and receives partial treatment to the level required by ODOT with the remainder according to RVSS. Four Filterra water quality inlets are installed within this basin to provide treatment to the required ODOT level. In addition, as noted above, a water quality manhole is located just south of Basin II at Sta. 17+89. The four Filterra water quality inlets treat 0.67 acres of the on-site runoff and the water quality structure treats the rest. Note that the drainage area to the water quality manhole is inclusive of the Filterra areas. This is because the two water quality structures are placed in series. The table below shows the contributing drainage areas (or portions thereof) and the water quality flow to each of the structures. A breakdown of the drainage areas to the facility is provided in Appendix B.

Table 9: Water Quality Structure Flows

Water Quality Structure	Drainage Areas	On-site Area (acres)	Water Quality Flow Rate (cfs)
C	6 - 20	3.58	0.86
D	13	0.11	0.03
E	11,12	0.26	0.07
F	11	0.10	0.03
G	13	0.20	0.06

No detention is provided for the flows within Basin III. To accomplish the required reduction in flows per the RVSS requirements, over detention is provided within the 60 inch detention pipes located in Basin II. Calculations for the over detention for Basin III can be found in Appendix B.

Basin IV is located along Freeman Road around Bush Street and half way to Grand Avenue and receives treatment to the level required by RVSS. As noted above, a water quality manhole is located just south of Basin II at Sta. 17+89. This structure is designed to provide treatment for Basin IV as shown above in Table 9, on the Proposed Drainage Area Maps Figure 3A-3B, and in the breakdown of the drainage areas to the facility as provided in Appendix B.

No detention is provided for the flows within Basin IV. To accomplish the required reduction in flows per the RVSS requirements, over detention is provided within the 60 inch detention pipes located in Basin II. Calculations for the over detention for Basin IV can be found in Appendix B.

Basin V is located along Freeman Road around Grand Avenue and extends to Hopkins Road and receives partial treatment to the level required by RVSS. As noted above, a water quality manhole is located just south of Basin II at Sta. 17+89. This structure is designed to provide partial treatment for Basin V as shown above in Table 9, on the Proposed Drainage Area Maps Figures 3A-3B, and in the breakdown of the drainage areas to the facility as provided in Appendix B. Due to the Mingus Creek culverts beneath Freeman Road, not all portions of the project site within Basin V can be treated. To account for this area, additional areas not currently receiving treatment or not required to receive treatment are treated as mitigation. A breakdown of these areas are shown on the Proposed Drainage Area Maps on Figures 3A-3B and provided in Appendix B.

No detention is provided for the flows within Basin V. To accomplish the required reduction in flows per the RVSS requirements, over detention is provided within the 60 inch detention pipes located in Basin II. Calculations for the over detention for Basin V can be found in Appendix B.

Facility Maintenance

Maintenance of the stormwater facilities will be performed regularly as recommended by the Operations and Maintenance Manuals. Annual inspection of the facilities should occur to ensure their proper function.

Conclusions

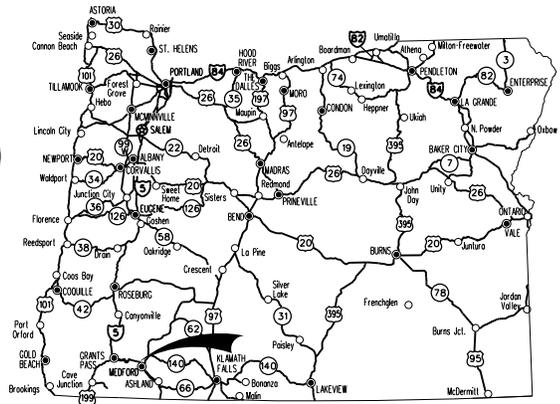
The stormwater management systems for the City of Central Point Freeman Road Improvements project provide water quality and quantity management for site runoff as required by ODOT and RVSS to the maximum extent practicable. These facilities provide treatment of reasonably expected pollutants from roadway and parking lot runoff as well as providing quantity management to minimize increases in runoff. Therefore, it is determined that stormwater management provided for the project meets all regulatory requirements.

Stormwater Management Report — Figures

STATE OF OREGON
 DEPARTMENT OF TRANSPORTATION
 PLANS FOR PROPOSED PROJECT
 GRADING, DRAINAGE, PAVING, SIGNING & ILLUMINATION
FREEMAN ROAD IMPROVEMENTS (CENTRAL POINT)
 FREEMAN ROAD
 JACKSON COUNTY
 OCTOBER 2014

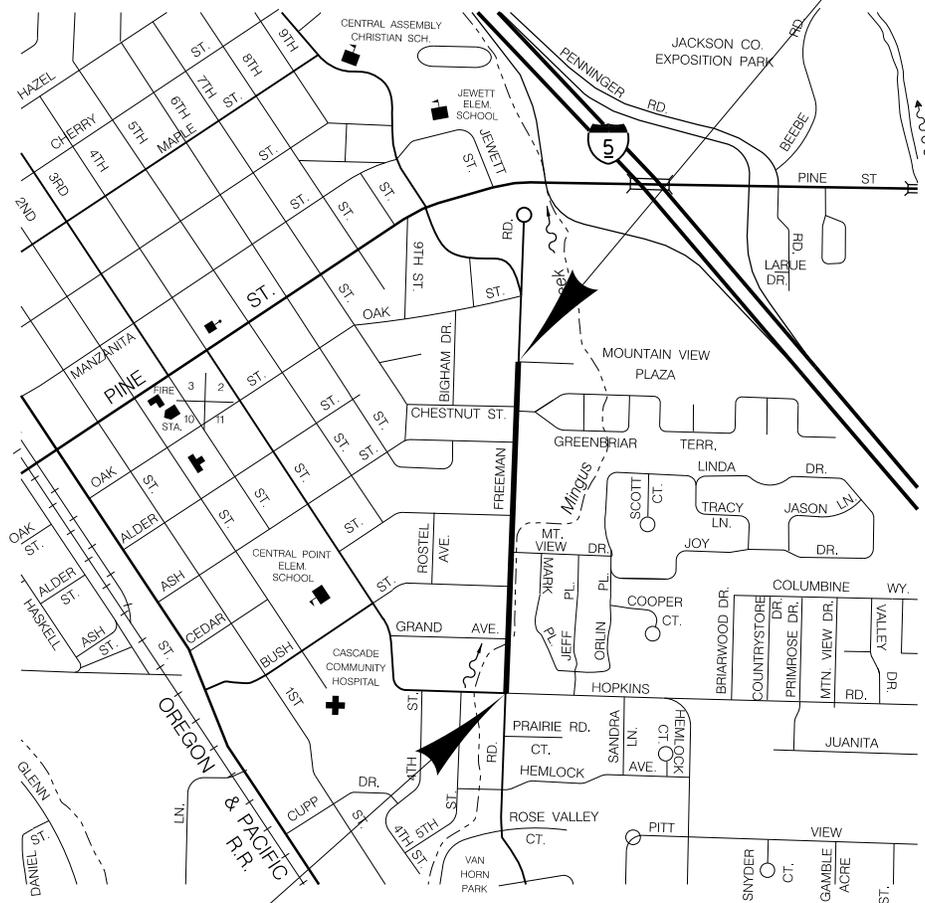


SEC. 2 & 11,
 T. 37 S., R. 2 W., W.M.



Overall Length Of Project - 0.44 Miles

BEGINNING OF PROJECT
CM-1240(020)
STA. "F" 6+14.00



CENTRAL POINT

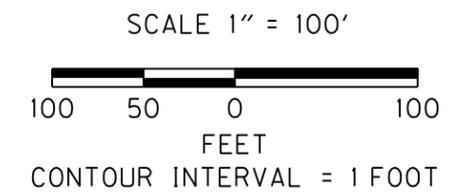
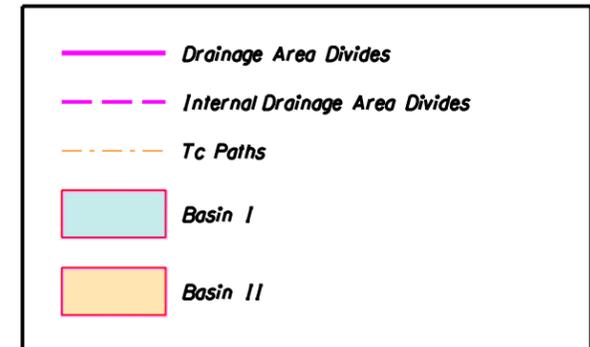
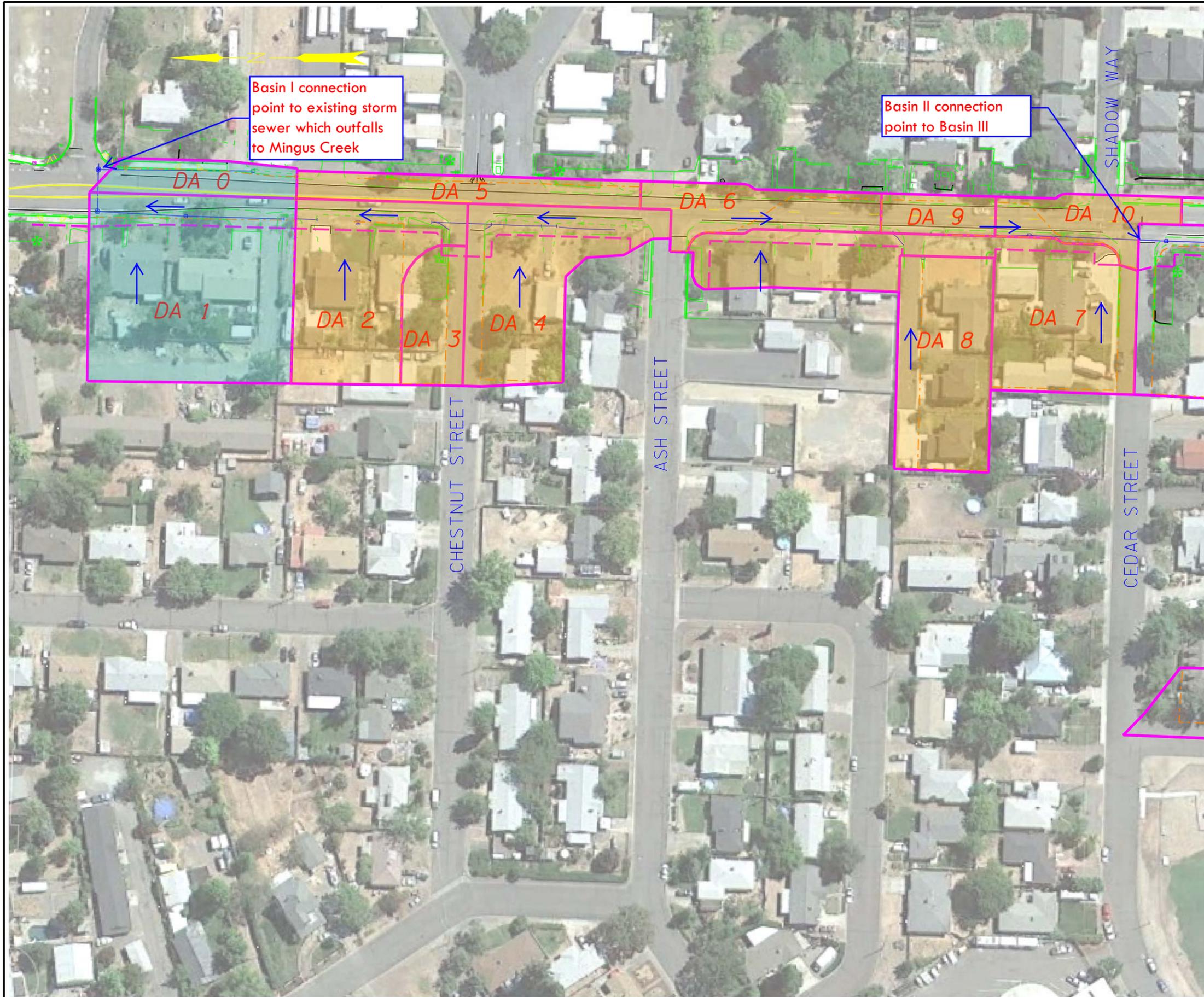
END OF PROJECT
CM-1240(020)
STA. "F" 28+70.00

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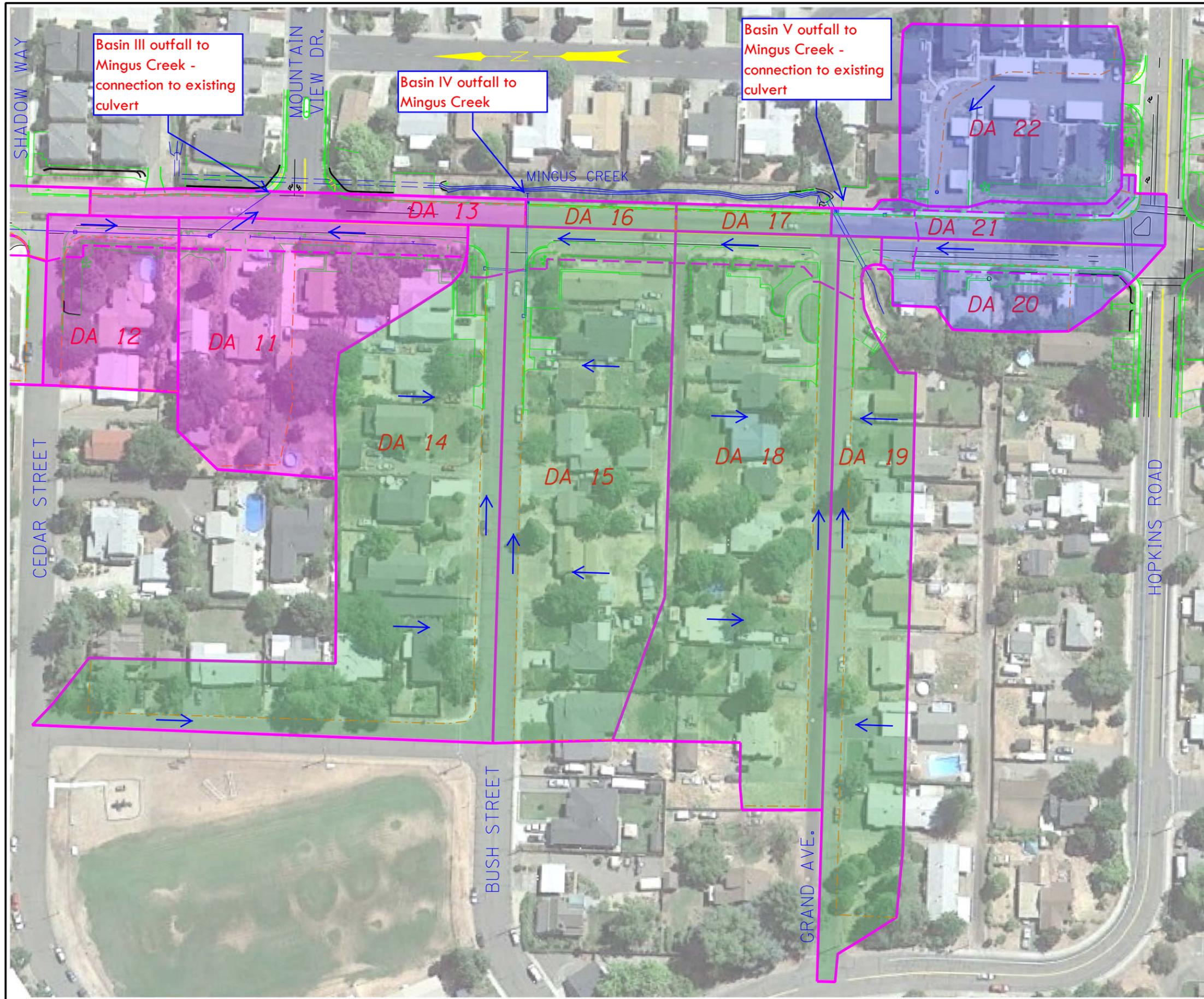
FREEMAN ROAD IMPROVEMENTS (CENTRAL POINT)
 FREEMAN ROAD
 JACKSON COUNTY

VICINITY MAP

FIGURE NO.
1



 OREGON DEPARTMENT OF TRANSPORTATION
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FREEMAN ROAD IMPROVEMENTS (CENTRAL POINT) FREEMAN ROAD JACKSON COUNTY
Design Team Leader - Jeff Bernardo Designed By - Ben Wewerka Checked By - Amy Jones
EXISTING BASINS 1-2 DRAINAGE AREA MAP
FIGURE NO. 2A



Basin III outfall to Mingus Creek - connection to existing culvert

Basin IV outfall to Mingus Creek

Basin V outfall to Mingus Creek - connection to existing culvert

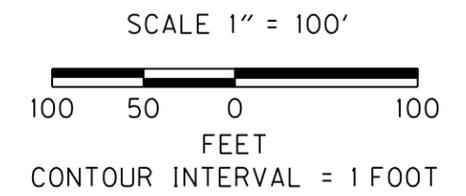
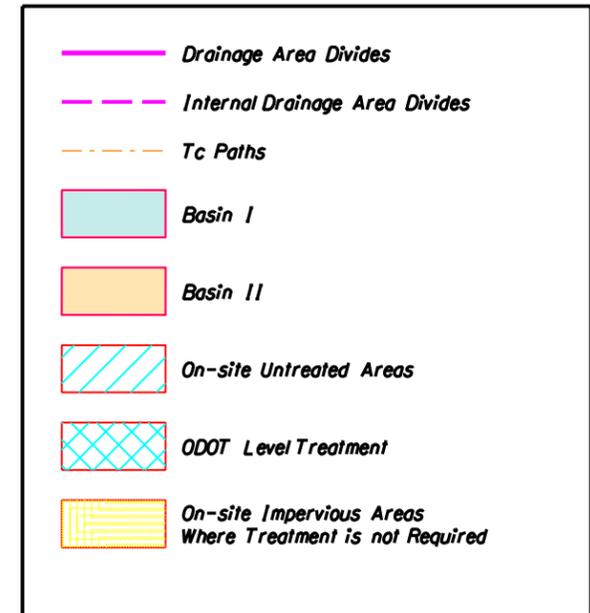
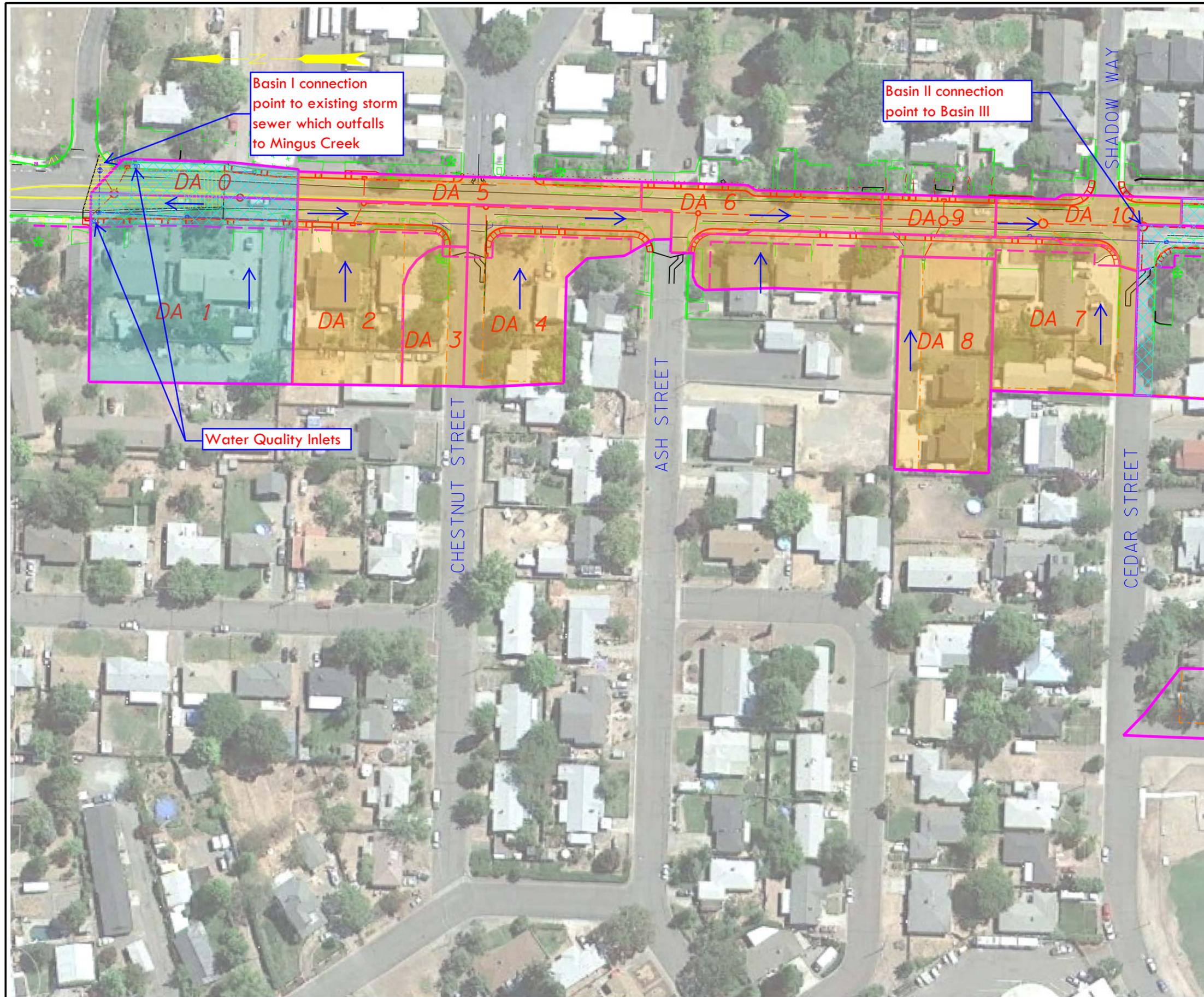
LEGEND

- Drainage Area Divides
- - - Internal Drainage Area Divides
- - - Tc Paths
- Basin III
- Basin IV
- Basin V

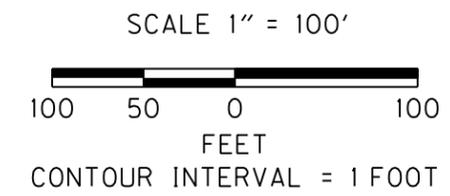
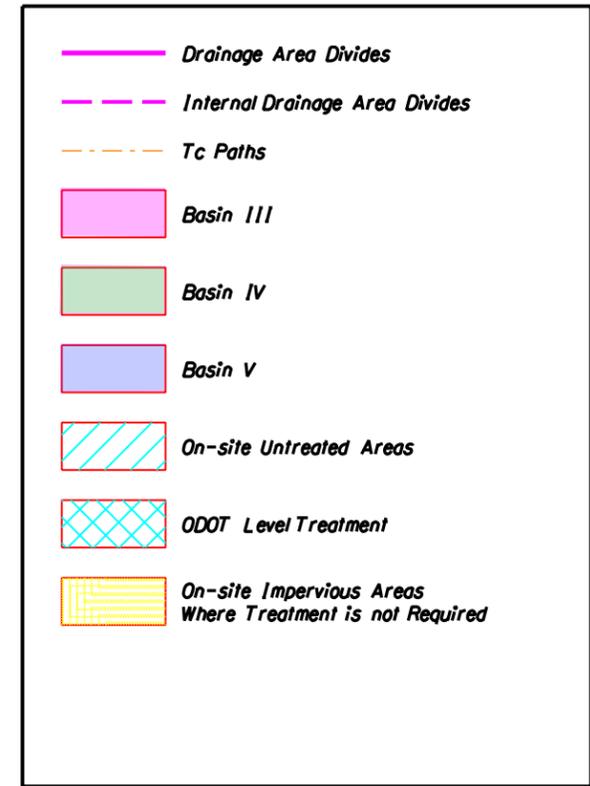
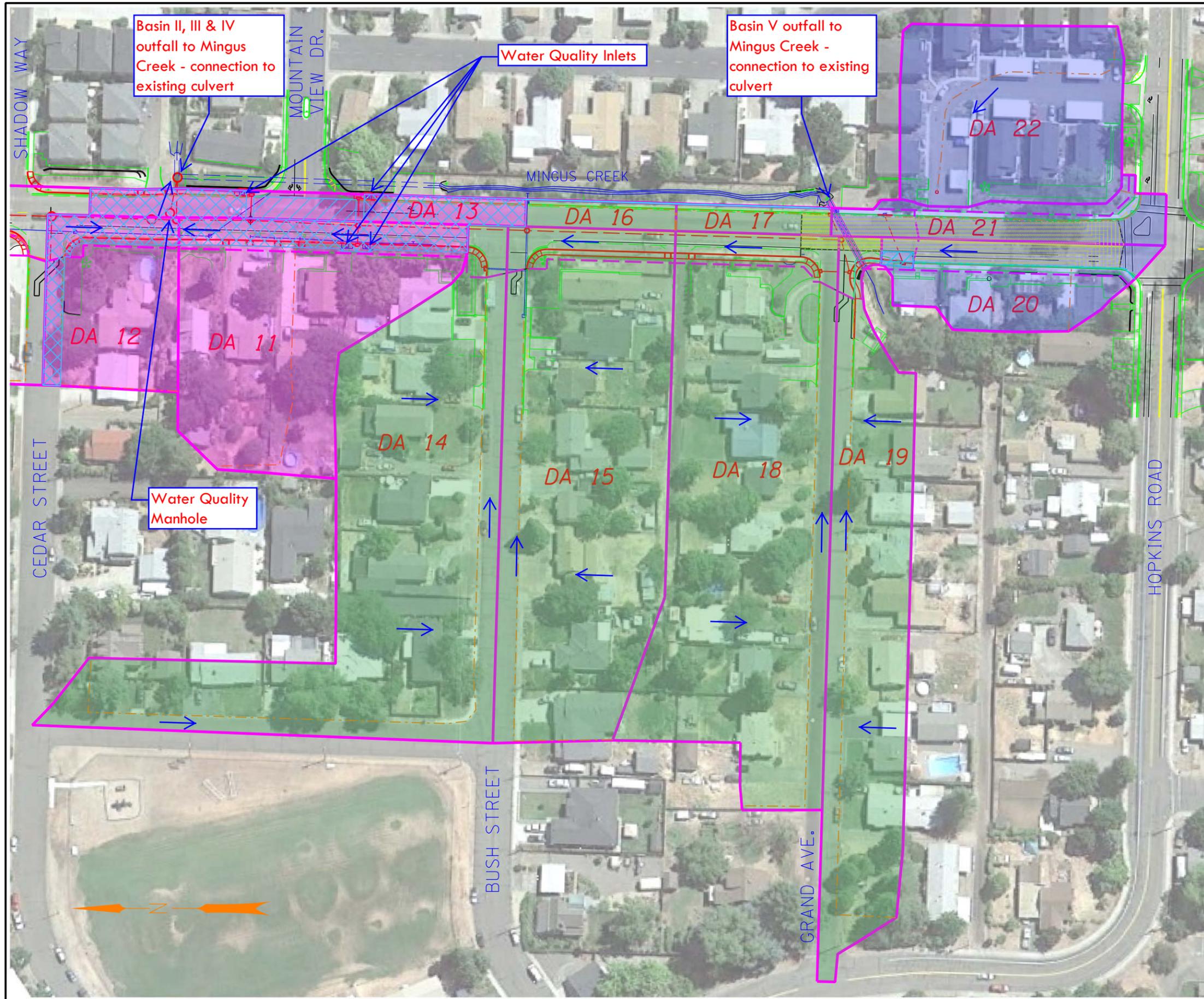
SCALE 1" = 100'

100 50 0 100
FEET
CONTOUR INTERVAL = 1 FOOT

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FREEMAN ROAD IMPROVEMENTS (CENTRAL POINT) FREEMAN ROAD JACKSON COUNTY
Design Team Leader - Jeff Bernardo Designed By - Ben Wewerka Checked By - Amy Jones
EXISTING BASINS 3-5 DRAINAGE AREA MAP
FIGURE NO. 2B



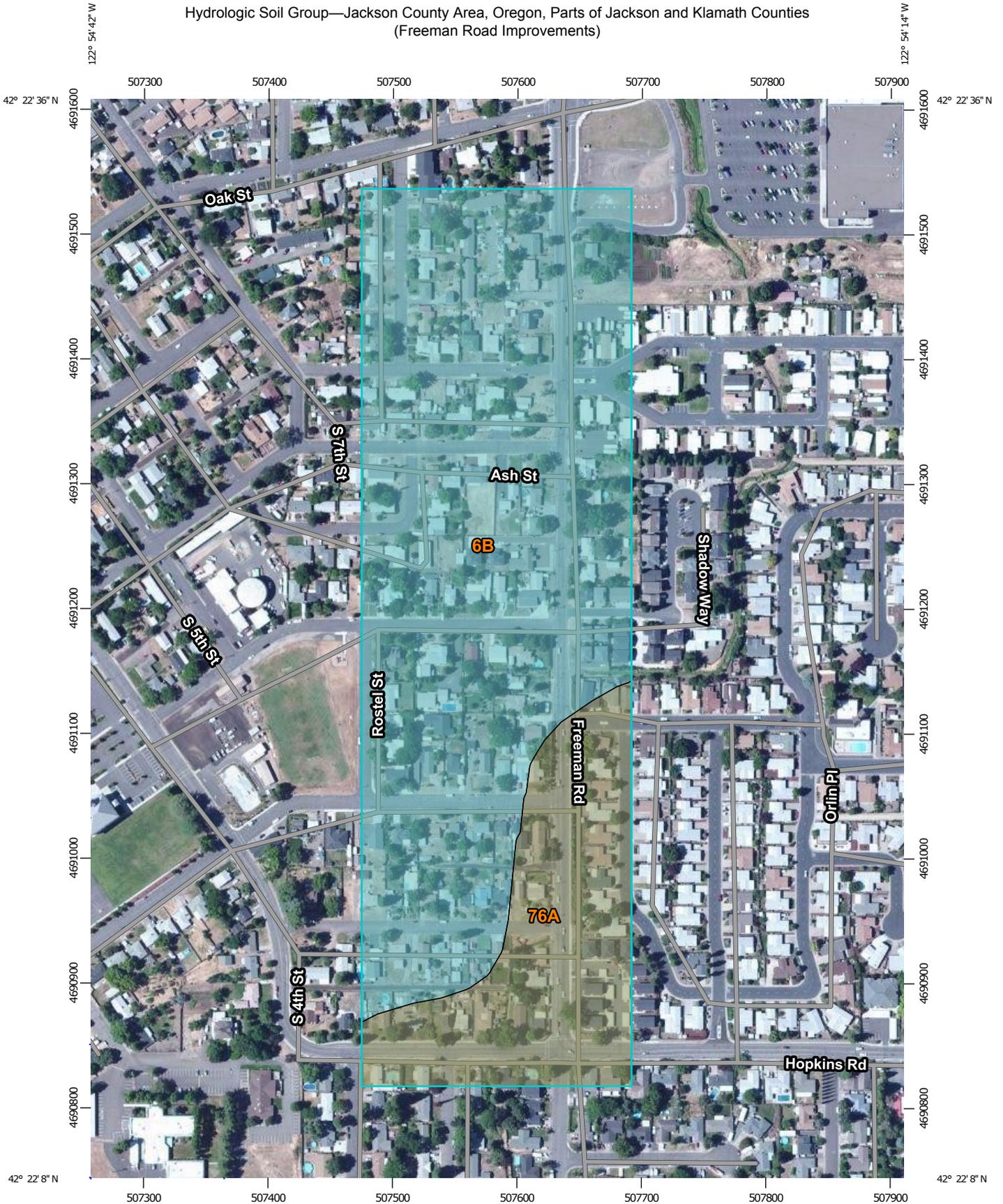
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FREEMAN ROAD IMPROVEMENTS (CENTRAL POINT) FREEMAN ROAD JACKSON COUNTY
Design Team Leader - Jeff Bernardo Designed By - Ben Wewerka Checked By - Amy Jones
PROPOSED BASINS 1-2 DRAINAGE AREA MAP
FIGURE NO. 3A



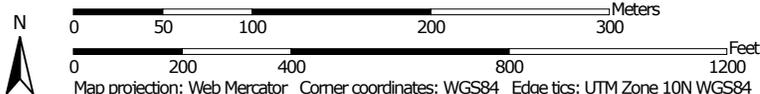
OREGON DEPARTMENT OF TRANSPORTATION	
OBEC CONSULTING ENGINEERS <small>www.obec.com</small>	
<small>CORPORATE OFFICE: 920 COUNTRY CLUB ROAD, SUITE 100B EUGENE, OREGON 97401-6089 REGIONAL OFFICES: LAKE OSWEGO, SALEM, MEDFORD, OREGON; VANCOUVER, WASHINGTON</small>	
FREEMAN ROAD IMPROVEMENTS (CENTRAL POINT) FREEMAN ROAD JACKSON COUNTY	
Design Team Leader - Jeff Bernardo Designed By - Ben Wewerka Checked By - Amy Jones	
PROPOSED BASINS 3-5 DRAINAGE AREA MAP	FIGURE NO. 3B

Stormwater Management Report – Appendix A

Hydrologic Soil Group—Jackson County Area, Oregon, Parts of Jackson and Klamath Counties
(Freeman Road Improvements)



Map Scale: 1:4,210 if printed on A portrait (8.5" x 11") sheet.



Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 10N WGS84



MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

Soil Rating Polygons

 A
 A/D
 B
 B/D
 C
 C/D
 D
 Not rated or not available

Soil Rating Lines

 A
 A/D
 B
 B/D
 C
 C/D
 D
 Not rated or not available

Soil Rating Points

 A
 A/D
 B
 B/D

 C
 C/D
 D
 Not rated or not available

Water Features

 Streams and Canals

Transportation

 Rails
 Interstate Highways
 US Routes
 Major Roads
 Local Roads

Background

 Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
 Web Soil Survey URL: <http://websoilsurvey.nrcs.usda.gov>
 Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Jackson County Area, Oregon, Parts of Jackson and Klamath Counties
 Survey Area Data: Version 10, Dec 4, 2013

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jun 28, 2010—Jul 17, 2010

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Hydrologic Soil Group

Hydrologic Soil Group— Summary by Map Unit — Jackson County Area, Oregon, Parts of Jackson and Klamath Counties (OR632)				
Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
6B	Agate-Winlo complex, 0 to 5 percent slopes	C	29.6	76.5%
76A	Gregory silty clay loam, 0 to 3 percent slopes	C/D	9.1	23.5%
Totals for Area of Interest			38.7	100.0%

Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

Rating Options

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

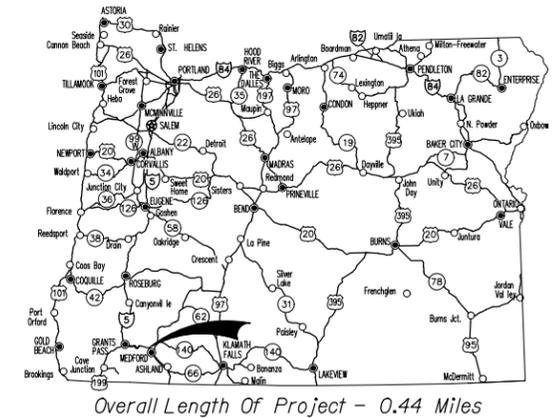
Tie-break Rule: Higher

Stormwater Management Report — Appendix B

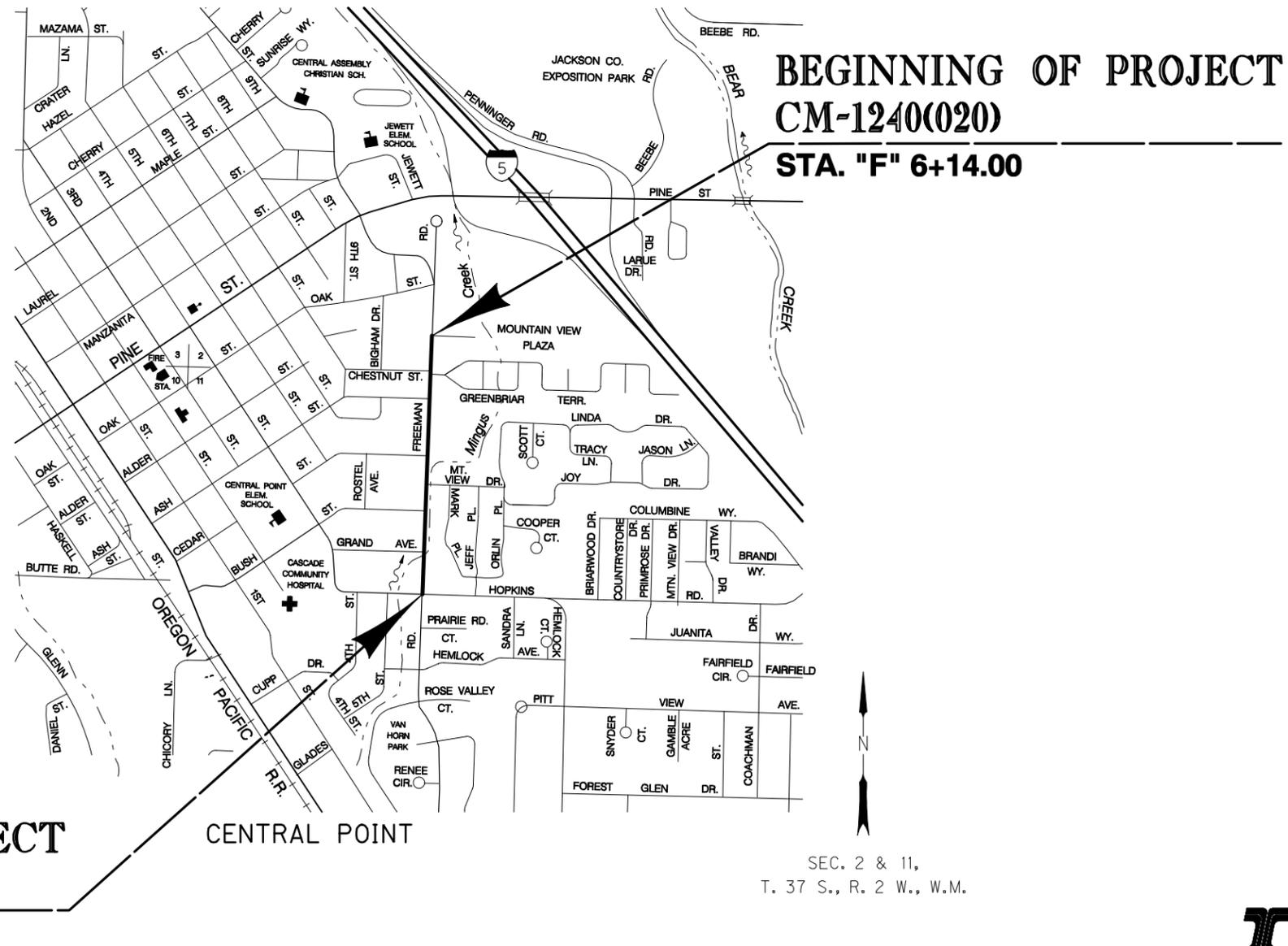
Stormwater Management Report – Appendix C

INDEX OF SHEETS	
SHEET NO.	DESCRIPTION
1	Title Sheet
1A	Index Of Sheets Cont'd. & Standard Drg. Nos.

STATE OF OREGON
DEPARTMENT OF TRANSPORTATION
PLANS FOR PROPOSED PROJECT
GRADING, DRAINAGE, PAVING, SIGNING & ILLUMINATION
FREEMAN ROAD IMPROVEMENTS (CENTRAL POINT)
FREEMAN ROAD
JACKSON COUNTY
OCTOBER 2014



LET'S ALL
WORK TOGETHER
TO MAKE THIS
JOB SAFE



ATTENTION:
Oregon Law Requires You To Follow Rules Adopted By The Oregon Utility Notification Center. Those Rules Are Set Forth In OAR 952-001-0010 Through OAR 952-001-0090. You May Obtain Copies Of The Rules By Calling The Center. (Note: The Telephone Number For The Oregon Utility Center Is (503) 232-1987.)

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OREGON TRANSPORTATION COMMISSION

Catherine Mater	CHAIR
David Lohman	COMMISSIONER
Tammy Baney	COMMISSIONER
Susan Morgan	COMMISSIONER
Alando Simpson	COMMISSIONER
Matthew L. Garrett	DIRECTOR OF TRANSPORTATION

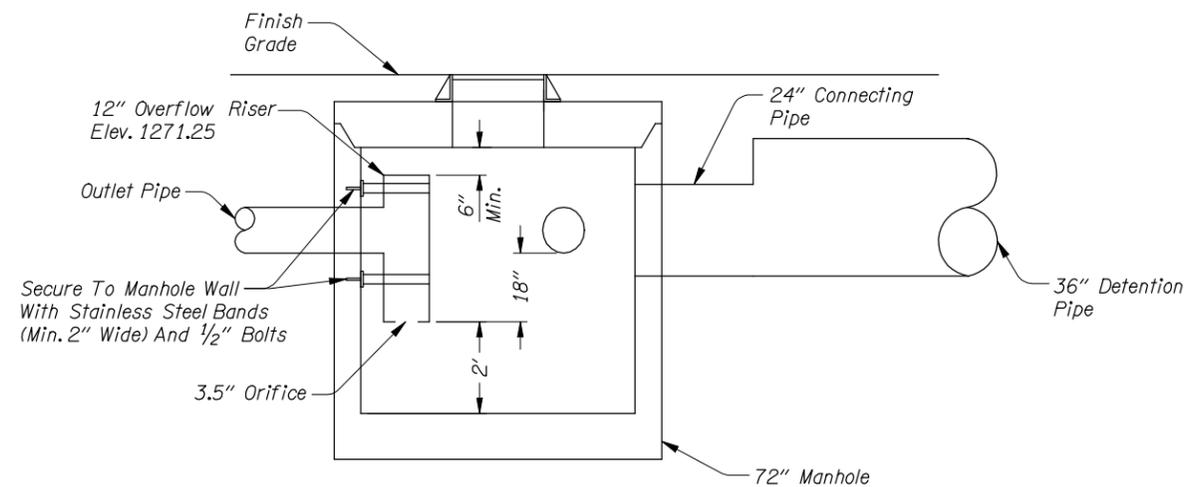
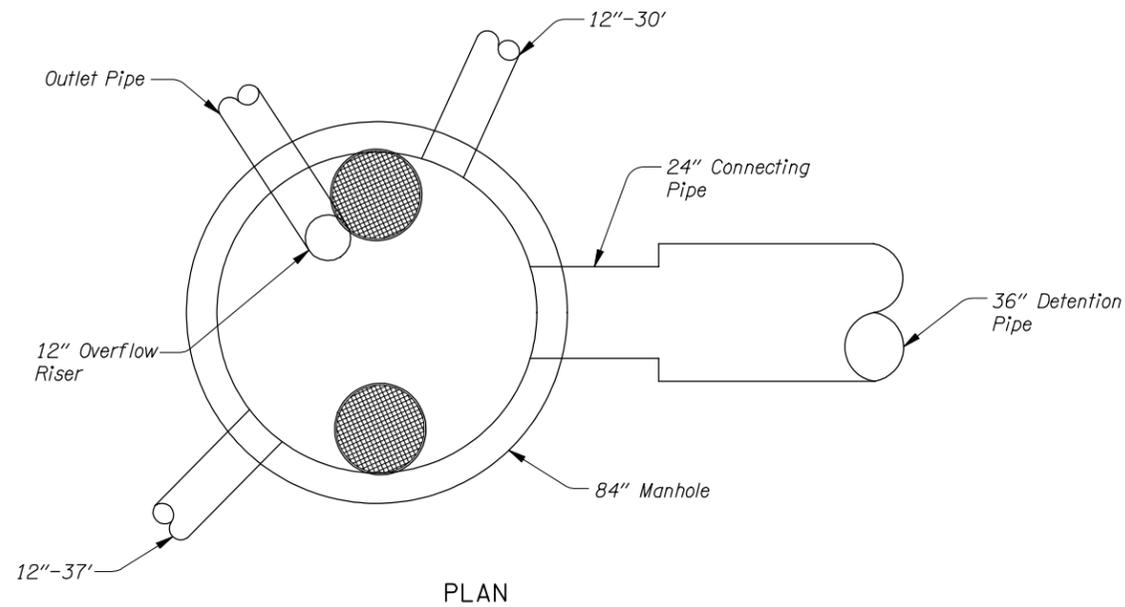
These plans were developed using AASHTO design standards. Exceptions to these standards, if any, have been submitted and approved by the ODOT Chief Engineer or their delegated authority.

Approving Authority: _____
Signature & date
JEFF BERNARDO, PROJECT MANAGER
Print name and title

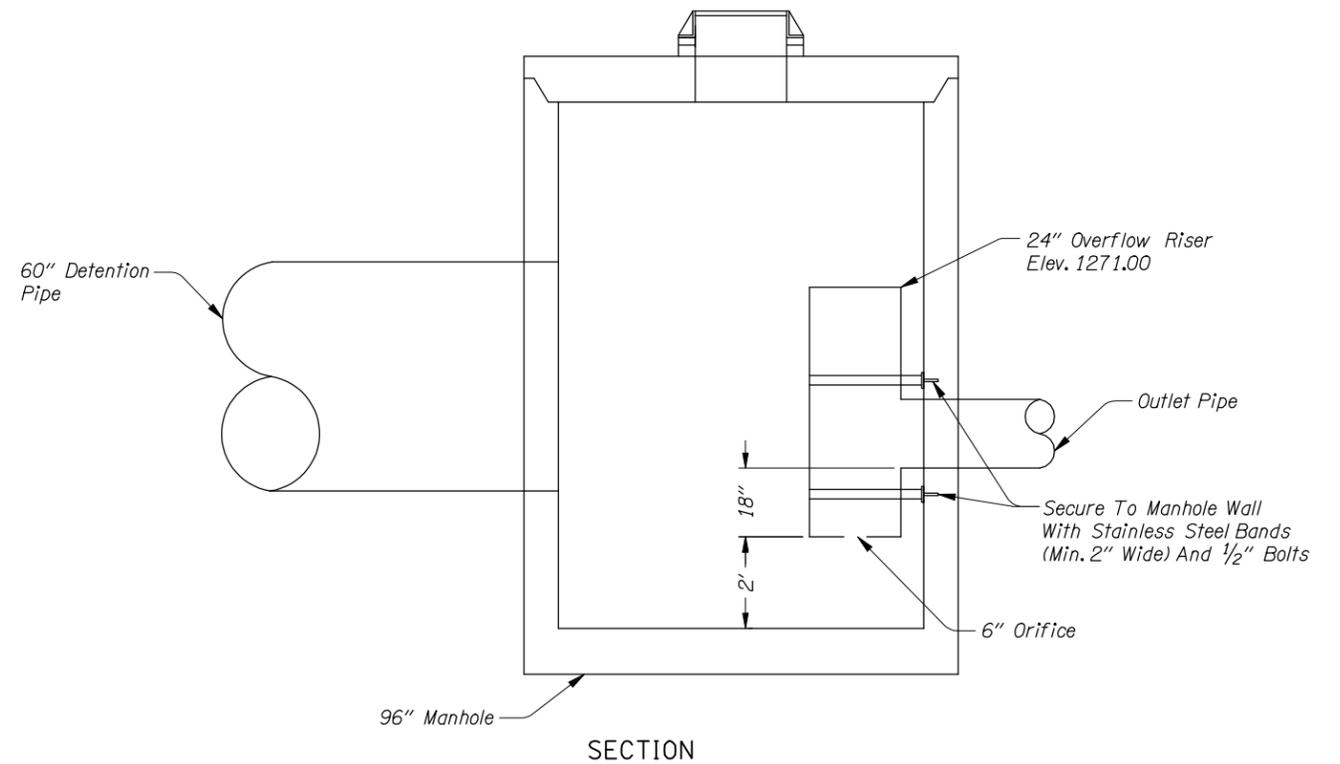
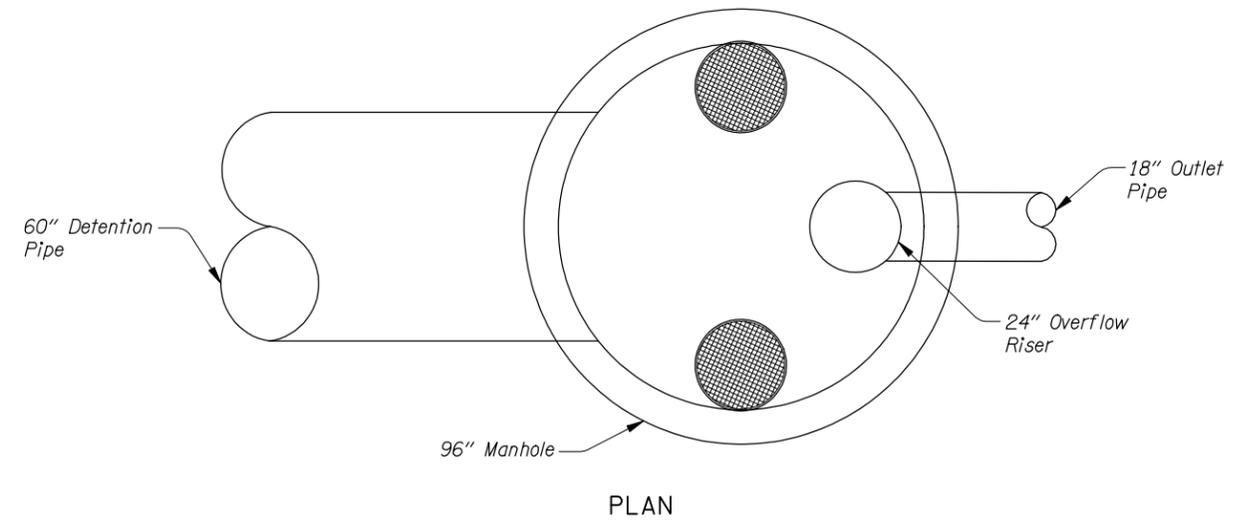
Concurrence by ODOT Chief Engineer

FREEMAN ROAD IMPROVEMENTS (CENTRAL POINT)		
FREEMAN ROAD JACKSON COUNTY		
FEDERAL HIGHWAY ADMINISTRATION	PROJECT NUMBER	SHEET NO.
OREGON DIVISION	CM-1240(020)	1

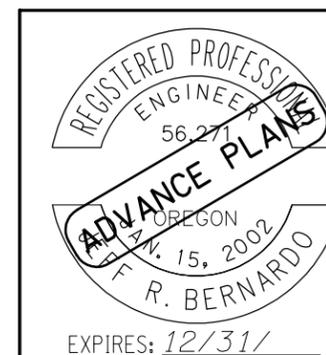




SECTION
STA. 6+40 FLOW CONTROL MANHOLE

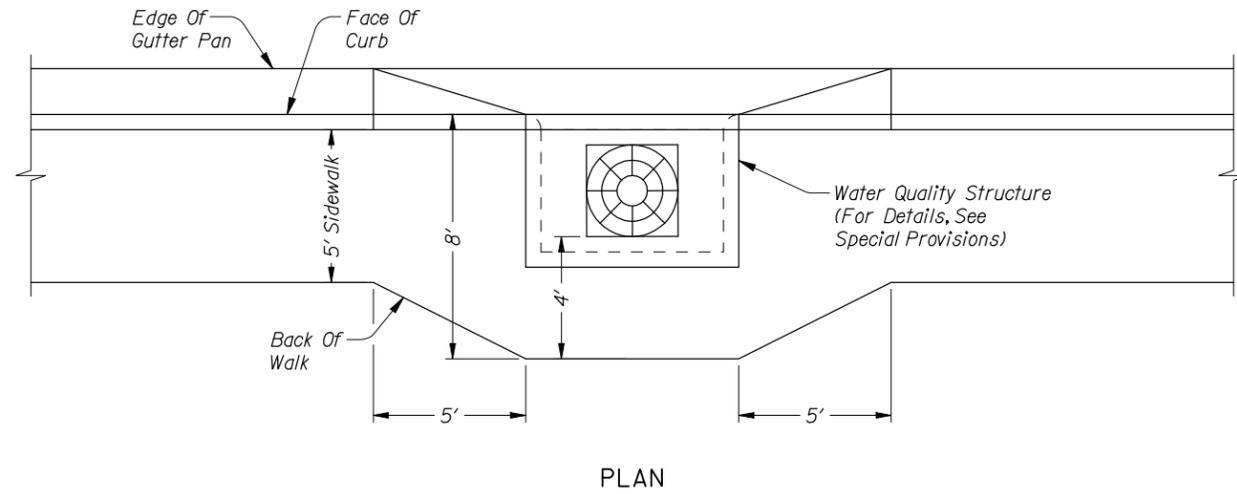


SECTION
STA. 17+71 FLOW CONTROL MANHOLE

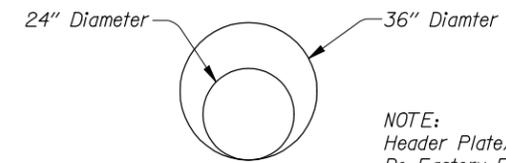
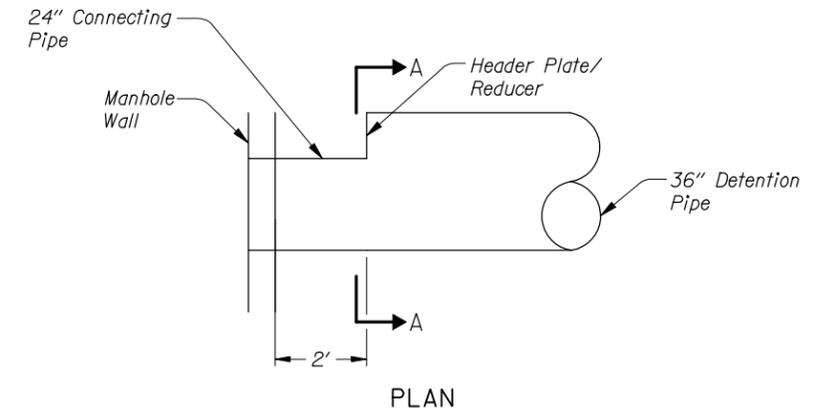


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FREEMAN ROAD IMPROVEMENTS (CENTRAL POINT) FREEMAN ROAD JACKSON COUNTY	
Designed By - Ben Wewerka Checked By - Amy Jones Drafted By - Serban Dinca	
DETAILS	SHEET NO. 2B-3

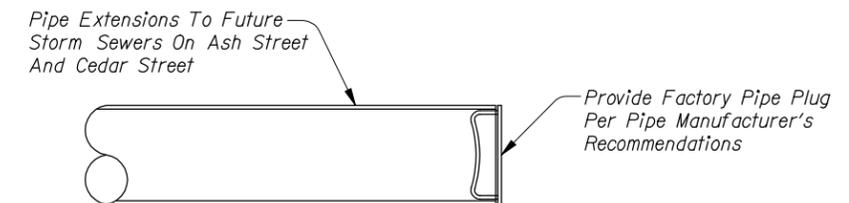
STRUCTURE I.D.	LOCATION	DRAINAGE AREA (ac.)	ON-LINE OR OFF-LINE	WATER QUALITY DESIGN FLOW (cfs)
A	6+21	0.15	Off-Line	0.04
B	6+61	0.14	Off-Line	0.03
D	18+62	0.11	Off-Line	0.03
E	19+68	0.26	Off-Line	0.07
F	19+87	0.10	Off-Line	0.03
G	19+87	0.20	Off-Line	0.06



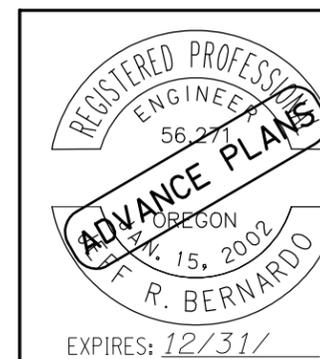
PLAN
WATER QUALITY STRUCTURE
(INLET) DETAIL



SECTION A-A
DETENTION PIPE TRANSITION DETAIL



PIPE PLUG DETAIL



OREGON DEPARTMENT OF TRANSPORTATION

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FREEMAN ROAD IMPROVEMENTS (CENTRAL POINT)

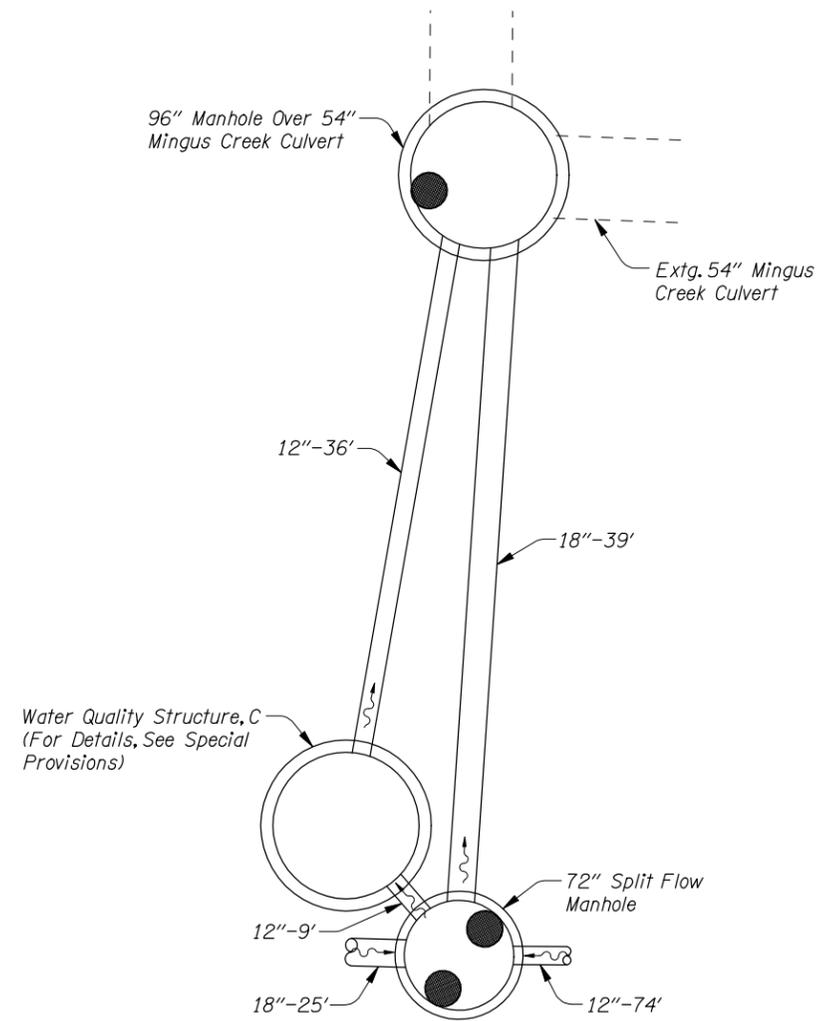
FREEMAN ROAD
JACKSON COUNTY

Designed By - Ben Wewerka
Checked By - Amy Jones
Drafted By - Serban Dinca

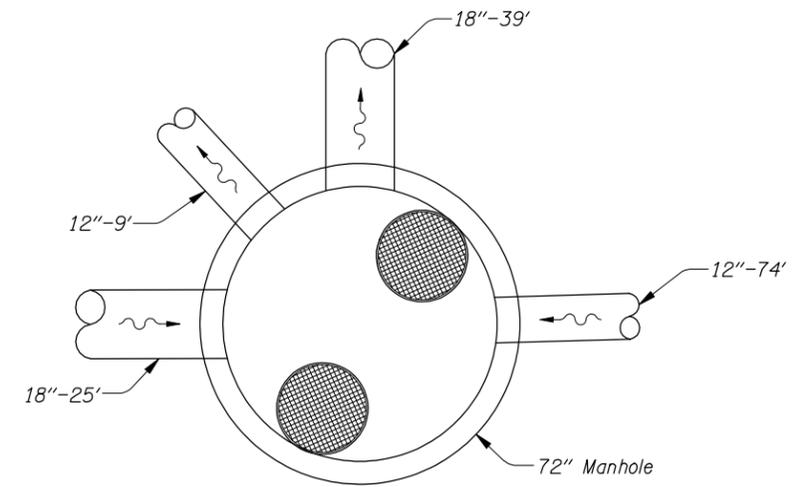
DETAILS

SHEET
NO.
2B-4

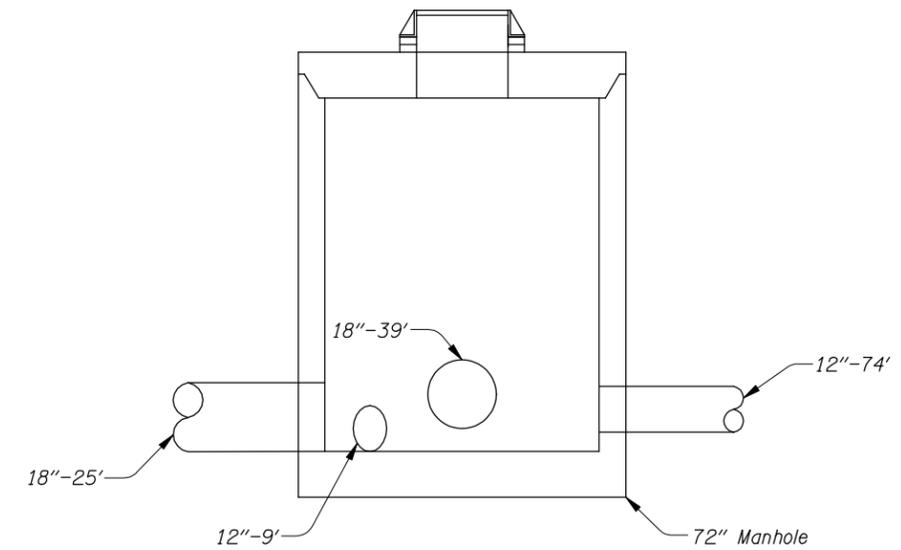
STRUCTURE I.D.	LOCATION	DRAINAGE AREA (ac.)	ON-LINE OR OFF-LINE	WATER QUALITY DESIGN FLOW (cfs)
C	17+89	3.58	Off-Line	0.86



WATER QUALITY STRUCTURE (MANHOLE) DETAIL

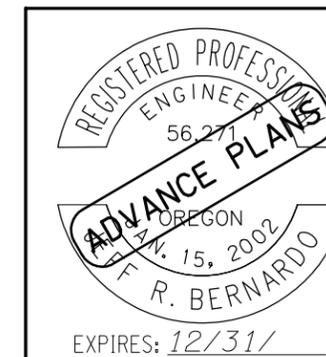


PLAN



SECTION

SPLIT FLOW MANHOLE



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FREEMAN ROAD
 JACKSON COUNTY

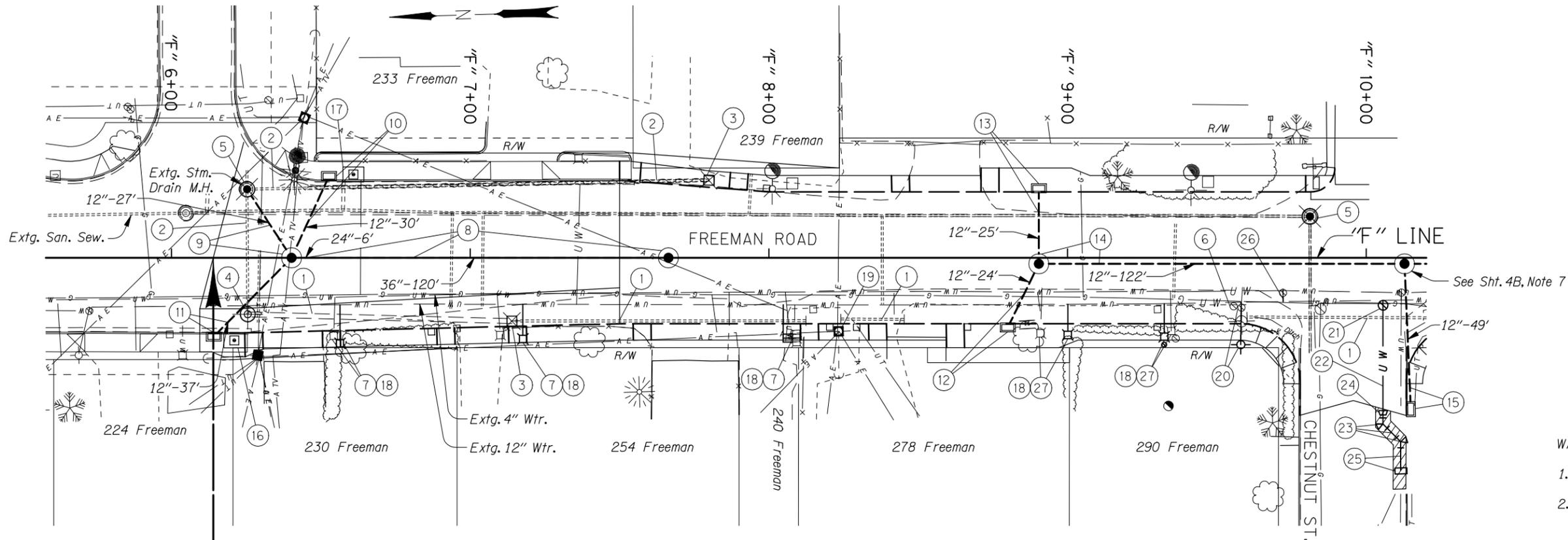
Designed By - Ben Wewerka
 Checked By - Amy Jones
 Drafted By - Serban Dinca

DETAILS

SHEET NO.
2B-5

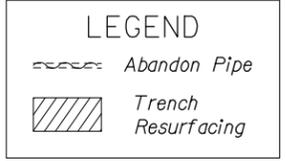
SEC. 2 & 11, T. 37 S, R. 2 W, W.M.
(City Of Central Point)

See Sht. 3C For Notes.

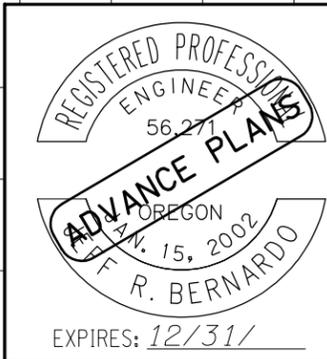
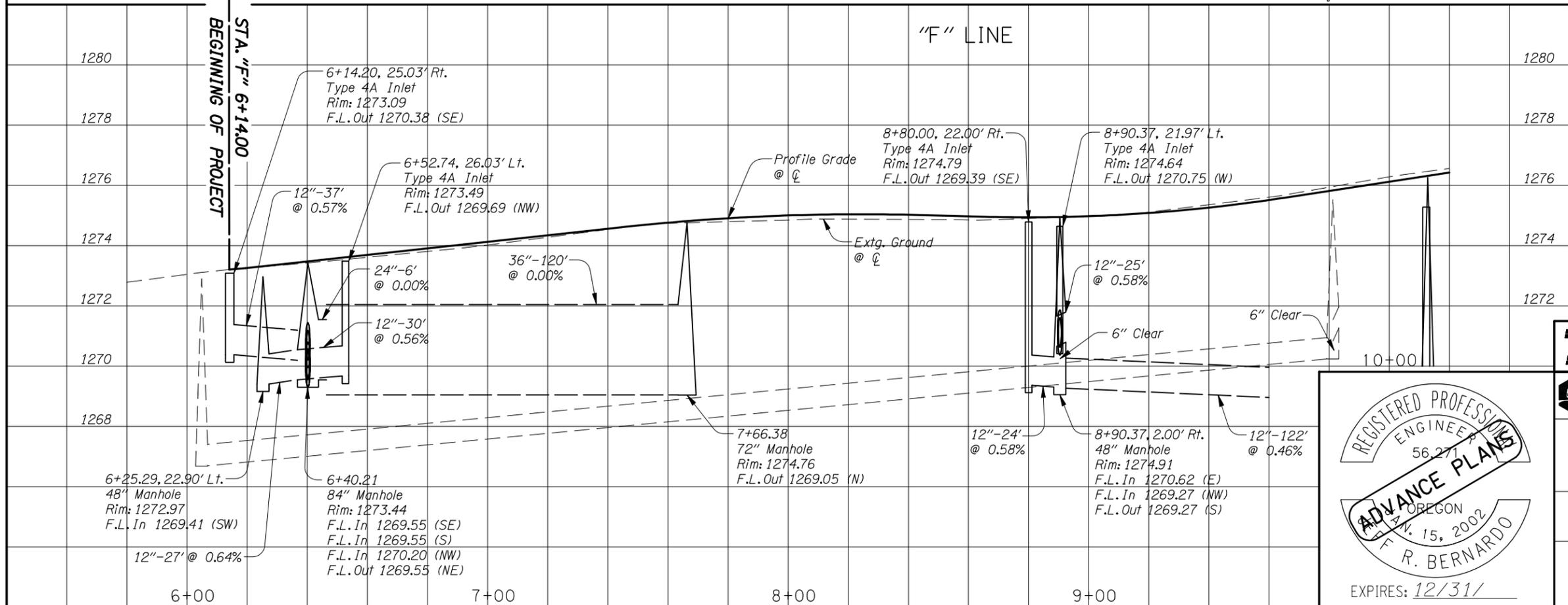


WATERLINE NOTES:

- 3' Minimum Cover On All New Waterline Mainline Pipe.
- Where Vert. Bends Are Not Specified, Contractor To Bend/Deflect Pipe To Achieve Vert. Alignment Shown To Meet Cover And Utility Clearance Requirements.
- Long Sleeves Shown On Plans Are Not Included In Bid Item List Are To Facilitate Construction. Locate As Necessary.
- All Waterline Pipe And Fittings To Be Restrained.
- City Of Central Point Water Department Will Abandon Existing 4" Water Main Upon Completion Of New Service Connections And 4" Tie-Ins On Side Streets.



Scale: 1"=40'



OREGON DEPARTMENT OF TRANSPORTATION

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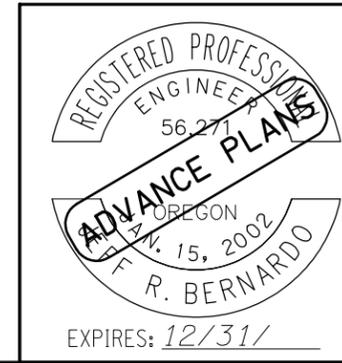
FREEMAN ROAD IMPROVEMENTS (CENTRAL POINT)
FREEMAN ROAD
JACKSON COUNTY

Designed By - Ben Wewerka/Jaime Jordan
Checked By - Amy Jones
Drafted By - Serban Dinca

DRAINAGE & UTILITY PLAN & PROFILE

SHEET NO. **3B**

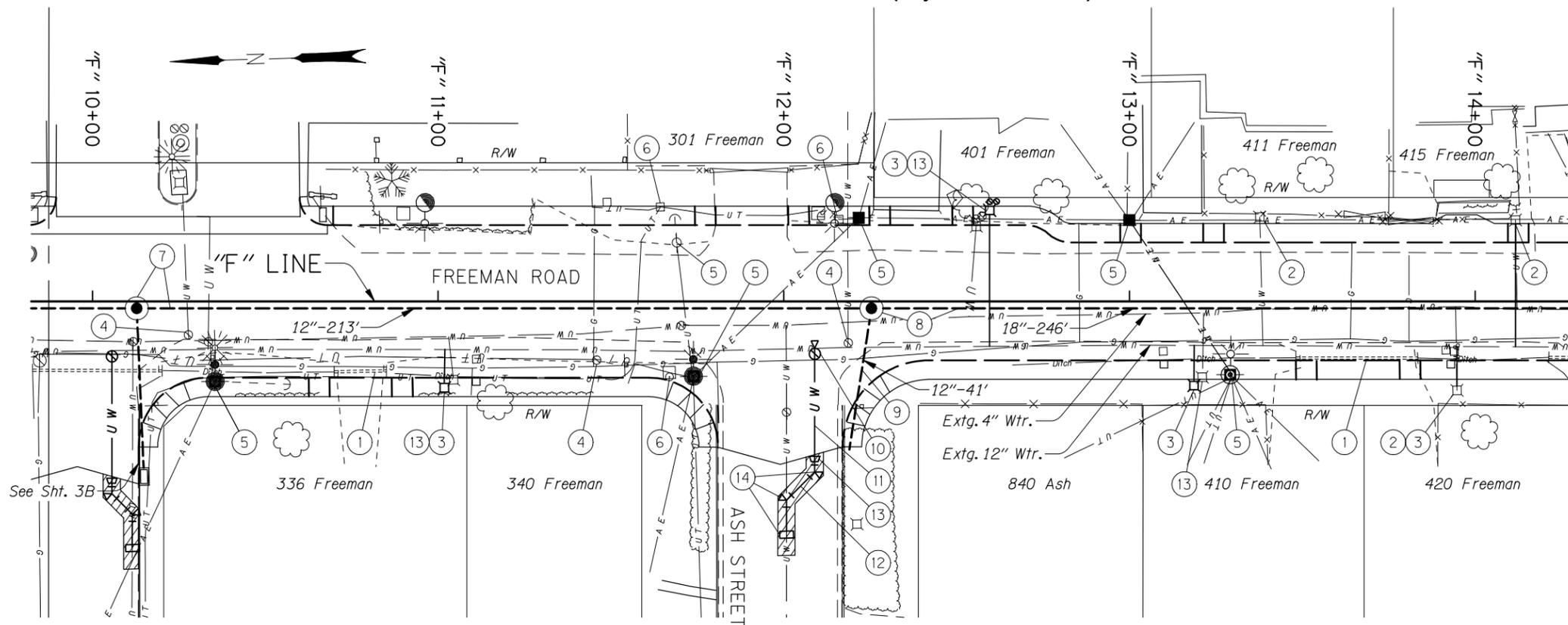
- ① Remove Pipe - 266'
- ② Abandon Pipe
- ③ Remove Inlet - 2
- ④ Remove Manhole
- ⑤ Adjust Manhole - 2
(See Drg. No. SD-6)
- ⑥ Adjust Valve Box To Grade
- ⑦ Adjust Extg. Water Meter Box To Grade - 3
- ⑧ Sta. 7+66.38, 0' Rt.
Const. Manhole, 72" Dia.
Inst. 24" Stm. Sew. Pipe - 6'
5' Depth
Inst. 36" Stm. Sew. Pipe - 120'
5' Depth
(See Drg. Nos. SD-2A, T-4)
(For Details, See Sht. 2B-4)
- ⑨ Sta. 6+40.00, 0' Rt.
Const. Flow Control Manhole, 84" Dia.
Inst. 12" Stm. Sew. Pipe - 27'
5' Depth
Connect To Extg. Manhole
(For Details, See Sht. 2B-3)
- ⑩ Sta. 6+53.00, Lt.
Const. Type 4A Inlet
Inst. 12" Stm. Sew. Pipe - 30'
5' Depth
(See Drg. No. SD-3)
- ⑪ Sta. 6+14.00, Rt.
Const. Type 4A Inlet
Inst. 12" Stm. Sew. Pipe - 37'
5' Depth
- ⑫ Sta. 8+80.00, Rt.
Const. Type 4A Inlet
Inst. 12" Stm. Sew. Pipe - 24'
5' Depth
- ⑬ Sta. 8+90.00, Lt.
Const. Type 4A Inlet
Inst. 12" Stm. Sew. Pipe - 25'
5' Depth
- ⑭ Sta. 8+80.00, 2' Rt.
Const. Manhole
Inst. 12" Stm. Sew. Pipe - 122'
5' Depth
(See Drg. No. SD-1)
- ⑮ Sta. 10+14.90, 50.53' Rt.
Const. Type 4A Inlet
Inst. 12" Stm. Sew. Pipe - 49'
5' Depth
- ⑯ Sta. 6+21.00, Rt.
Const. Water Quality Structure, A
(For Details, See Sht. 2B-4)
- ⑰ Sta. 6+61.00, Lt.
Const. Water Quality Structure, B
(For Details, See Sht. 2B-4)
- ⑱ Sta. 6+56.50, 30' Rt. (1 Each)
Sta. 7+18.00, 28.3' Rt. (1 Each)
Sta. 8+05.00, (3 Each)
Sta. 9+00.00, 27' Rt. (1 Each)
Sta. 9+32.00, 27.5' Rt. (1 Each)
Reconnect Extg. Water Service To Extg. 12" Main
(See Drg. No. W-5)
- ⑲ Relocate Extg. Utility Pole
(By Others)
- ⑳ Sta. 9+58.00, 29' Rt.
Move Extg. Hydrant
(See Drg. No. W-3)
- ㉑ Sta. 10+06.00, 14.3' Rt.
12" Tapping Sleeve & 8" Valve Assembly - 1 Each
1" Test Corp - 1 each
- ㉒ Inst. 8" D.I. Pipe, Class 54 - 38'
Verify Length As Required
- ㉓ Inst. 4" D.I. Pipe, Class 54 - 24'
Verify Length As Required
Trench Resurfacing - 20 Sq. Yd.
- ㉔ 8" x 4" Reducer - 1 Each
- ㉕ 4" 45° MJ Bend - 2 Each
4" Long Cast Sleeve - 1 Each
Conc. Collar Block - 1 Each
- ㉖ Inst. 4" Plug On Extg. 12" Main
At Interconnect
- ㉗ Relocate Extg. Meter & Box - 4



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FREEMAN ROAD IMPROVEMENTS (CENTRAL POINT) FREEMAN ROAD JACKSON COUNTY	
Designed By - Ben Wewerka/Jaime Jordan Checked By - Amy Jones Drafted By - Serban Dinca	
DRAINAGE & UTILITY NOTES	SHEET NO. 3C

SEC. 2 & 11, T. 37 S, R. 2 W, W.M.
(City Of Central Point)

See Sht. 4C For Notes.



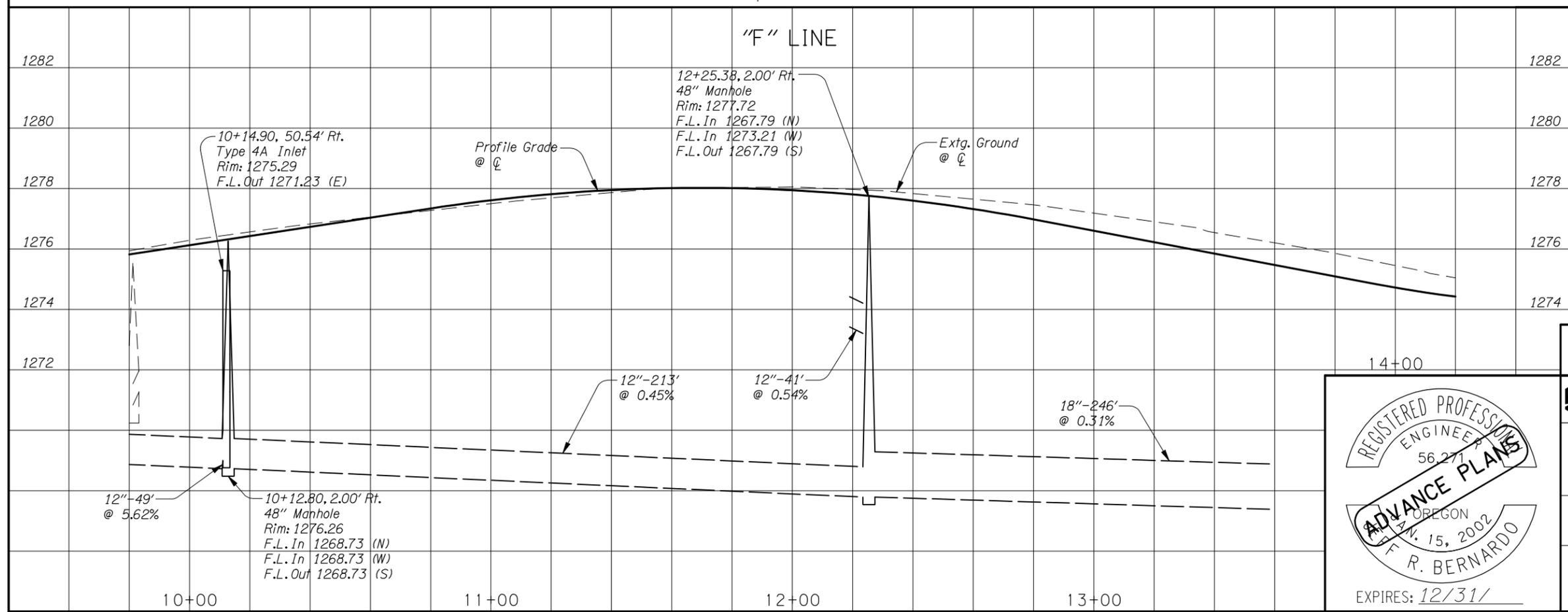
WATERLINE NOTES:

1. 3' Minimum Cover On All New Waterline Mainline Pipe.
2. Where Vert. Bends Are Not Specified, Contractor To Bend/Deflect Pipe To Achieve Vert. Alignment Shown To Meet Cover And Utility Clearance Requirements.
3. Long Sleeves Shown On Plans Are Not Included In Bid Item List Are To Facilitate Construction. Locate As Necessary.
4. All Waterline Pipe And Fittings To Be Restrained.
5. City Of Central Point Water Department Will Abandon Existing 4" Water Main Upon Completion Of New Service Connections And 4" Tie-Ins On Side Streets.

LEGEND

Trench Resurfacing

Scale: 1"=40'



REGISTERED PROFESSIONAL ENGINEER
56,277
ADVANCE PLANS
JULY 15, 2002
R. BERNARDO
EXPIRES: 12/31/

OREGON DEPARTMENT OF TRANSPORTATION

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FREEMAN ROAD IMPROVEMENTS (CENTRAL POINT)
FREEMAN ROAD
JACKSON COUNTY

Designed By - Ben Wewerka/Jaime Jordan
Checked By - Amy Jones
Drafted By - Serban Dinca

DRAINAGE & UTILITY PLAN & PROFILE

SHEET NO. **4B**

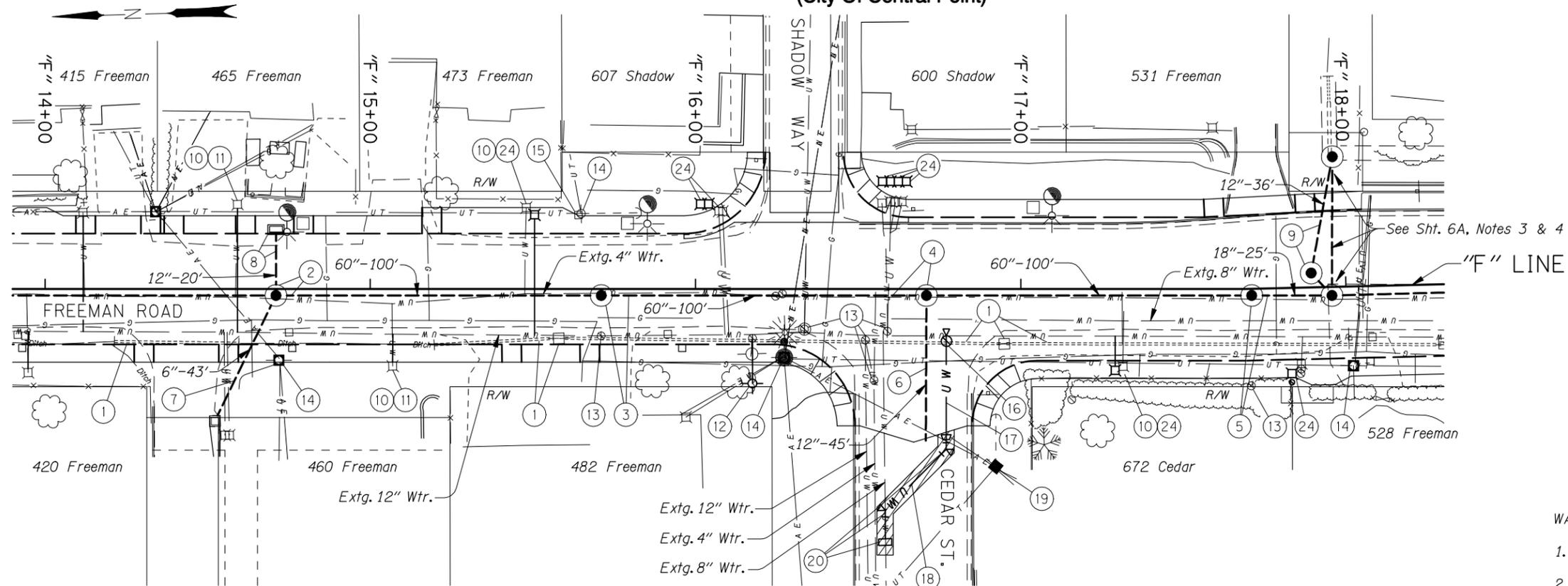
- ① Remove Pipe - 50'
- ② Adjust Extg. Water Meter Box To Grade - 3
- ③ Sta. 11+02.00, 26' Rt.
Sta. 12+59.50, 27.5' Lt.
Sta. 13+19.00, 25.5' Rt.
Sta. 13+95.00, 27' Rt.
Reconnect Extg. Water Service To Extg. 12" Main
- ④ Adjust Valve Box To Grade - 3
- ⑤ Relocate Extg. Utility Pole
(By Others)
- ⑥ Relocate Extg. Utility Box
(By Others)
- ⑦ Sta. 10+12.80, 2' Rt.
Const. Manhole
Inst. 12" Stm. Sew. Pipe - 213'
10' Depth
- ⑧ Sta. 12+25.00, 2' Rt.
Const. Manhole
Inst. 18" Stm. Sew. Pipe - 246'
10' Depth
- ⑨ Sta. 10+12.80, 2' Rt.
Inst. 12" Stm. Sew. Pipe - 41'
5' Depth
Inst. Pipe Plug
(For Details, See Sht. 2B-4)
- ⑩ Sta. 12+09, 13.5' Rt.
12" Tapping Sleeve & 8" Valve Assembly - 1 Each
1" Test Corp - 1 Each
- ⑪ Inst. 8" D.I. Pipe, Class 54 - 33'
Verify Length As Required
- ⑫ Inst. 4" D.I. Pipe, Class 54 - 24'
Verify Length As Required
Trench Resurfacing - 14 Sq.Yd.
- ⑬ 8" X 4" Reducer - 1 Each
- ⑭ 4" 45° MJ Bend - 2 Each
4" Long Cast Sleeve - 1 Each
Conc. Collar Block - 1 Each
- ⑮ Relocate Extg. Meter & Box - 3



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FREEMAN ROAD IMPROVEMENTS (CENTRAL POINT) FREEMAN ROAD JACKSON COUNTY	
Designed By - Ben Wewerka/Jaime Jordan Checked By - Amy Jones Drafted By - Serban Dinca	
DRAINAGE & UTILITY NOTES	SHEET NO. 4C

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(City Of Central Point)

See Sht. 5D For Notes.

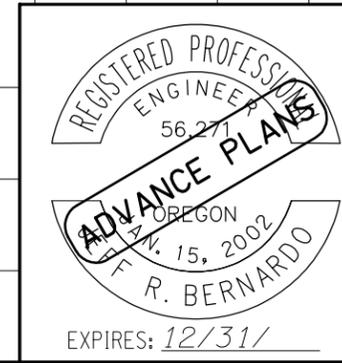
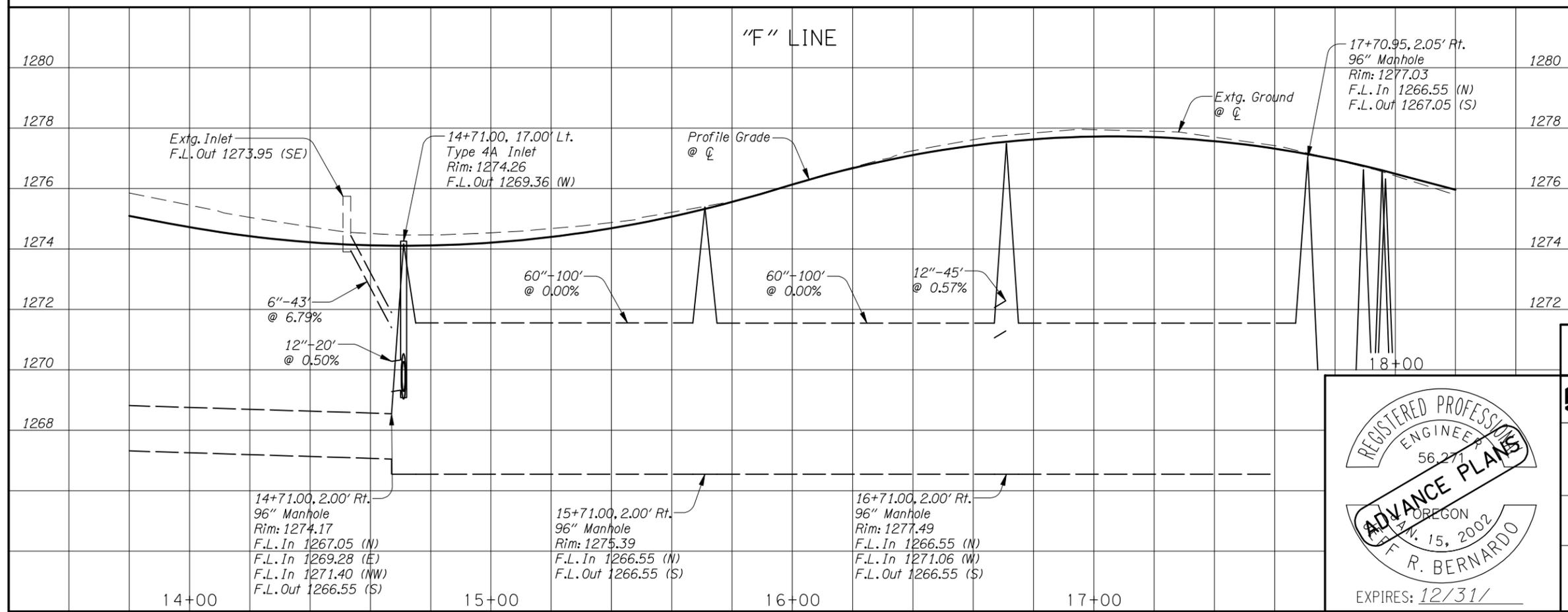


WATERLINE NOTES:

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Scale: 1"=40'



OREGON DEPARTMENT OF TRANSPORTATION

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CORPORATE OFFICE: 920 COUNTRY CLUB ROAD, SUITE 100B EUGENE, OREGON 97401-6089
REGIONAL OFFICES: LAKE OSWEGO, SALEM, MEDFORD, OREGON; VANCOUVER, WASHINGTON
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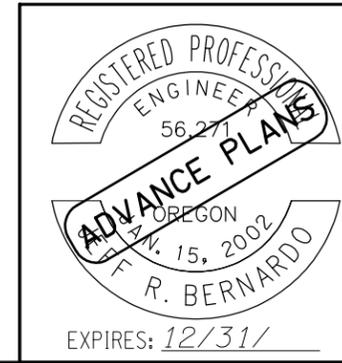
FREEMAN ROAD IMPROVEMENTS (CENTRAL POINT)
FREEMAN ROAD
JACKSON COUNTY

Designed By - Ben Wewerka/Jaime Jordan
Checked By - Amy Jones
Drafted By - Serban Dinca

DRAINAGE & UTILITY PLAN & PROFILE

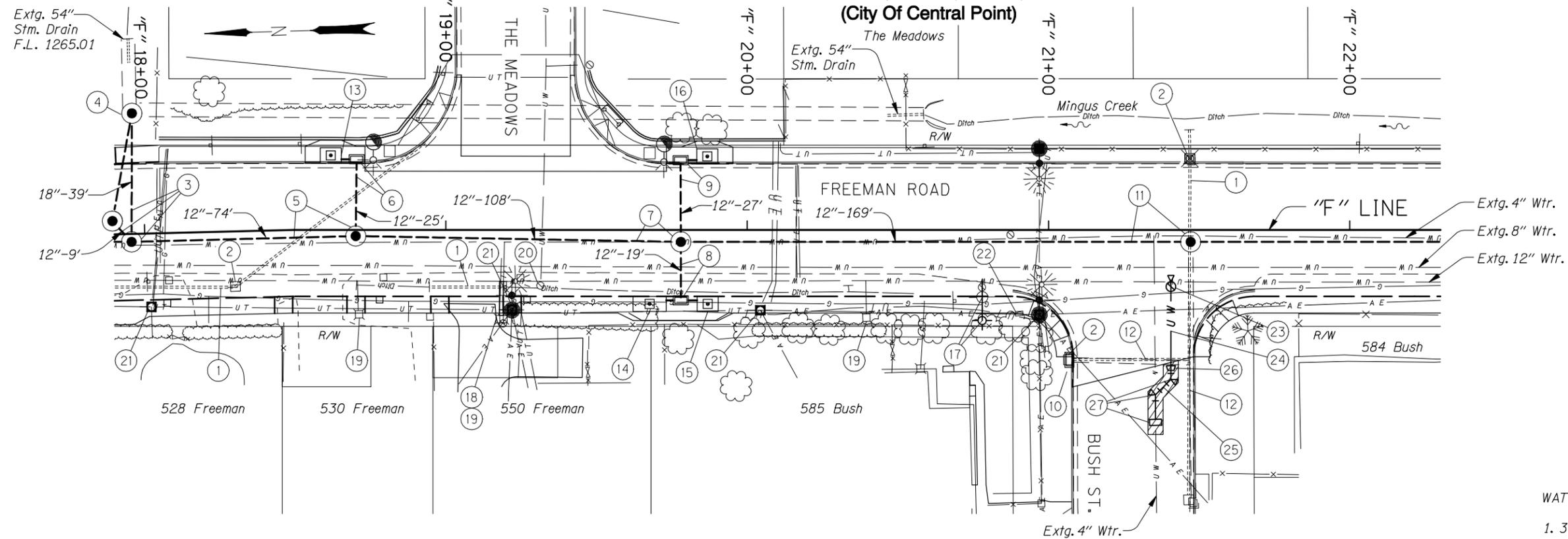
SHEET NO. **5C**

- ① Remove Pipe - 350'
- ② Sta. 14+71.00, 2' Rt.
Const. Manhole, 96" Dia.
Inst. 60" Stm. Sew. Pipe - 100'
10' Depth
- ③ Sta. 15+71.00, 2' Rt.
Const. Manhole, 96" Dia.
Inst. 60" Stm. Sew. Pipe - 100'
20' Depth
- ④ Sta. 16+71.00, 2' Rt.
Const. Manhole, 96" Dia.
Inst. 60" Stm. Sew. Pipe - 100'
20' Depth
- ⑤ Sta. 17+71.00, 2' Rt.
Const. Flow Control Manhole, 96" Dia.
Inst. 18" Stm. Sew. Pipe - 25'
10' Depth
(For Details, See Sht. 2B-3)
- ⑥ Sta. 16+71.00, 2' Rt.
Inst. 12" Stm. Sew. Pipe - 45'
10' Depth
Inst. Pipe Plug
(For Details, See Sht. 2B-6)
- ⑦ Inst. 6" Stm. Sew. Pipe - 43'
5' Depth
Connect To Extg. Inlet
- ⑧ Sta. 14+71.00, Lt.
Const. Type 4A Inlet
Inst. 12" Stm. Sew. Pipe - 20'
5' Depth
- ⑨ Sta. 17+89.40, 4.41' Lt.
Const. Water Quality Structure, C
Inst. 12" Stm. Sew. Pipe - 36'
20' Depth
(For Details, See Sht. 2B-5)
- ⑩ Sta. 14+59.00, 27.5' Lt.
Sta. 15+07.00, 25' Rt.
Sta. 15+50.50, 24' Lt.
Sta. 17+29.00, 26' Rt.
Sta. 17+86.00, 29' Rt.
Reconnect Extg. Water Service To Extg. 12" Main
- ⑪ Adjust Extg. Water Meter Box To Grade - 2
- ⑫ Sta. 16+17.50, 29' Rt.
Inst. Fire Hydrant Assembly - 1 Each
Connect To Extg. Valve
(See Drg. No. W-3)
- ⑬ Adjust Valve Box To Grade - 6
- ⑭ Relocate Extg. Utility Pole (By Others)
- ⑮ Relocate Extg. Utility Box (By Others)
- ⑯ Sta. 16+77, 14.6' Rt.
12" Tapping Sleeve & 8" Valve Assembly - 1 Each
1" Test Corp - 1 Each
- ⑰ Inst. 8" D.I. Pipe, Class 54 - 32'
Verify Length As Required
- ⑱ Inst. 4" D.I. Pipe, Class 54 - 38'
Verify Length As Required
Trench Resurfacing - 21 Sq.Yd.
- ⑲ 8" x 4" Reducer - 1 Each
- ⑳ 4" 45° MJ Bend - 2 Each
4" Long Cast Sleeve - 1 Each
Conc. Collar Block - 1 Each
- ㉑ Relocate Extg. Meter & Box - 5



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FREEMAN ROAD IMPROVEMENTS (CENTRAL POINT) FREEMAN ROAD JACKSON COUNTY	
Designed By - Ben Wewerka/Jaime Jordan Checked By - Amy Jones Drafted By - Serban Dinca	
DRAINAGE & UTILITY NOTES	SHEET NO. 5D

SEC. 2 & 11, T. 37 S, R. 2 W, W.M.
(City Of Central Point)

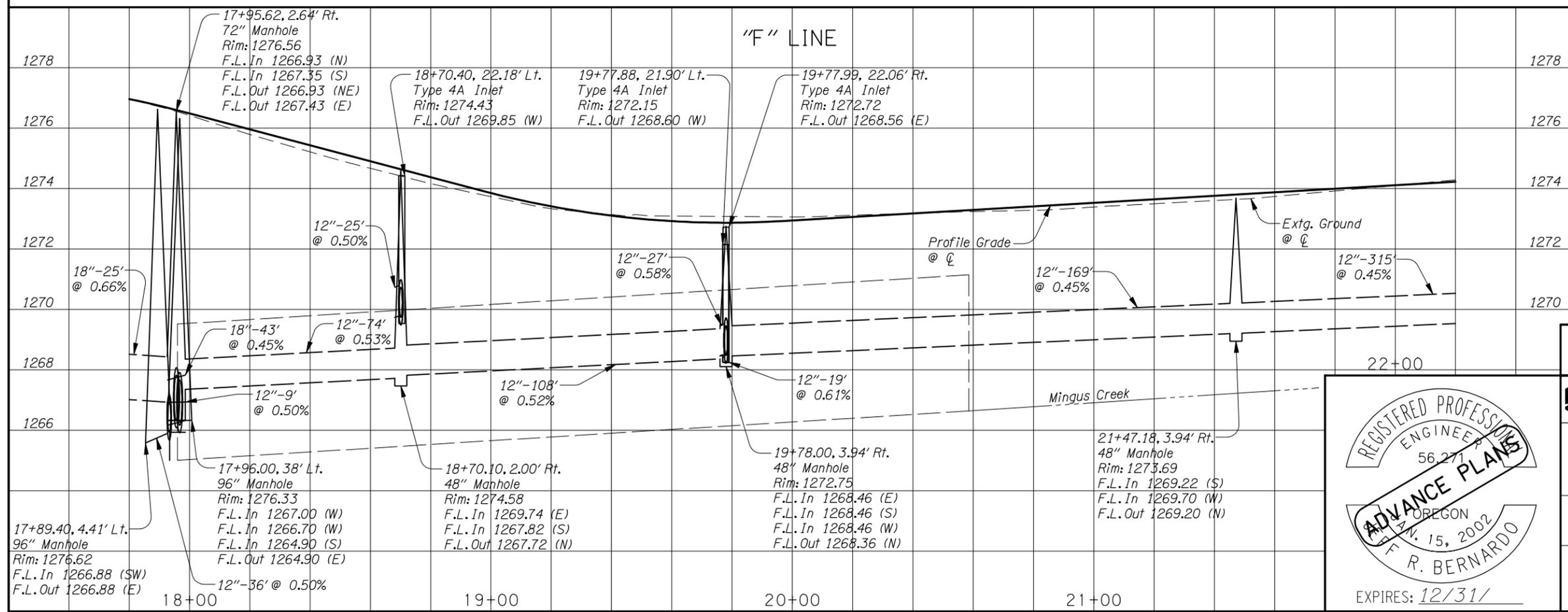


WATERLINE NOTES:

1. 3' Minimum Cover On All New Waterline Mainline Pipe.
2. Where Vert. Bends Are Not Specified, Contractor To Bend/Deflect Pipe To Achieve Vert. Alignment Shown To Meet Cover And Utility Clearance Requirements.
3. Long Sleeves Shown On Plans Are Not Included In Bid Item List Are To Facilitate Construction. Locate As Necessary.
4. All Waterline Pipe And Fittings To Be Restrained.
5. City Of Central Point Water Department Will Abandon Existing 4" Water Main Upon Completion Of New Service Connections And 4" Tie-Ins On Side Streets.



Scale: 1"=40'



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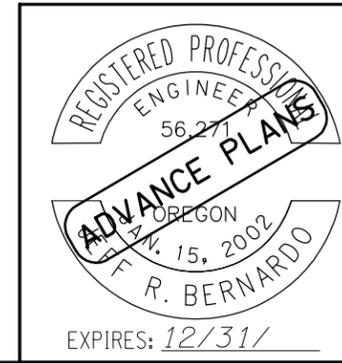
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FREEMAN ROAD
JACKSON COUNTY

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DRAINAGE & UTILITY PLAN & PROFILE

SHEET NO. **6A**

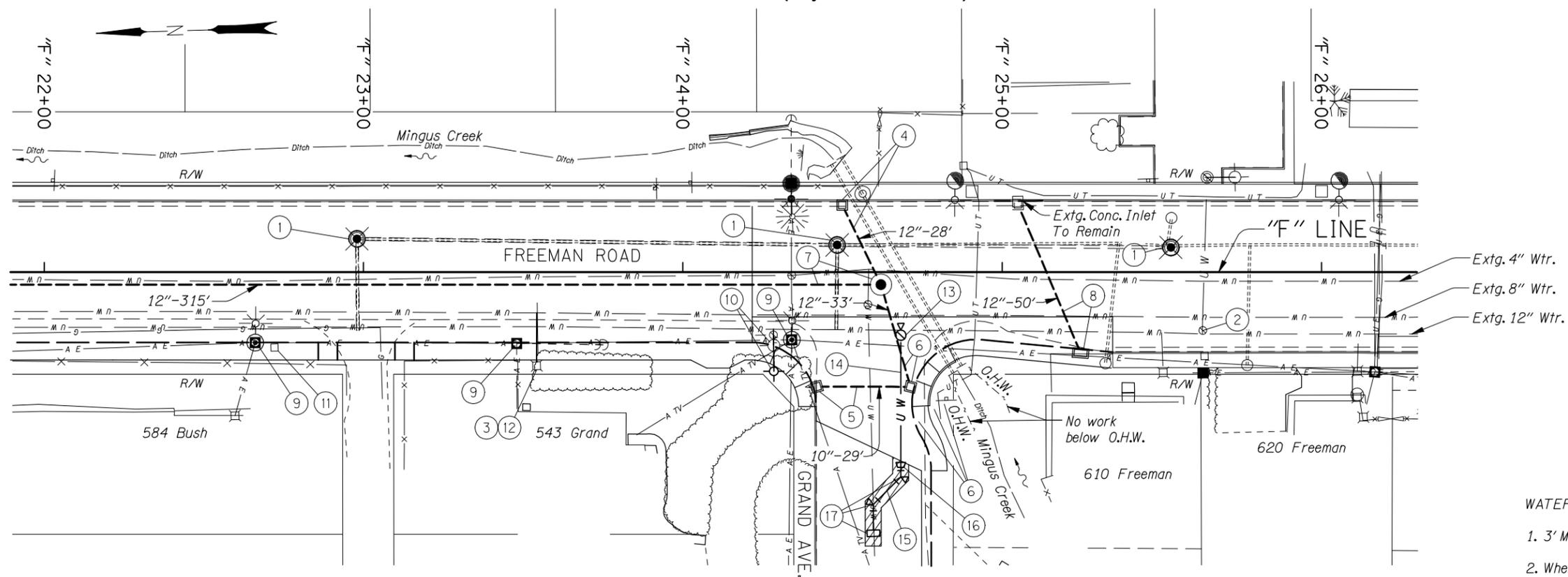
- ① Remove Pipe - 92'
- ② Remove Inlet - 3
- ③ Sta. 17+96.00, 11.5' Lt.
Const. Split Flow Manhole, 72" Dia.
Inst. 18" Stm. Sew. Pipe - 39'
10' Depth
Inst. 12" Stm. Sew. Pipe - 9'
10' Depth
(For Details, See Sht. 2B-5)
- ④ Sta. 17+96.00, 38' Lt.
Const. Manhole, 96" Dia. Over Extg. Sew.
(Field Verify Invert)
- ⑤ Sta. 18+70.00, 2' Rt.
Const. Manhole
Inst. 12" Stm. Sew. Pipe - 74'
10' Depth
- ⑥ Sta. 18+70, Lt.
Const. Type 4A Inlet
Inst. 12" Stm. Sew. Pipe - 25'
5' Depth
- ⑦ Sta. 19+78.00, 4' Rt.
Const. Manhole
Inst. 12" Stm. Sew. Pipe - 108'
10' Depth
- ⑧ Sta. 19+78.00, Rt.
Const. Type 4A Inlet
Inst. 12" Stm. Sew. Pipe - 19'
5' Depth
- ⑨ Sta. 19+78.00, Lt.
Const. Type 4A Inlet
Inst. 12" Stm. Sew. Pipe - 27'
5' Depth
- ⑩ Sta. 21+08.13, 43.75' Rt.
Const. Type 4A Inlet Over Extg. Sew.
- ⑪ Sta. 21+47.18, 3.94' Rt.
Const. Manhole Over Extg. Sew.
Inst. 12" Stm. Sew. Pipe - 169'
5' Depth
- ⑫ Protect Extg. Pipe
- ⑬ Sta. 18+62, Lt.
Const. Water Quality Structure, D
(For Details, See Sht. 2B-4)
- ⑭ Sta. 19+68, Rt.
Const. Water Quality Structure, E
(For Details, See Sht. 2B-4)
- ⑮ Sta. 19+87, Rt.
Const. Water Quality Structure, F
(For Details, See Sht. 2B-4)
- ⑯ Sta. 19+87, Lt.
Const. Water Quality Structure, G
(For Details, See Sht. 2B-4)
- ⑰ Sta. 20+78.00, 30' Rt.
Move Extg. Hydrant
- ⑱ Sta. 19+19.00, 30.5' Rt. - 2 Each
Reconnect Extg. Water Service To Extg. 12" Main
- ⑲ Adjust Extg. Water Meter Box To Grade - 4
- ⑳ Adjust Valve Box To Grade
- ㉑ Relocate Extg. Utility Pole
(By Others)
- ㉒ Relocate Extg. Utility Box
(By Others)
- ㉓ Sta. 21+40.60, 17.2' Rt.
12" Tapping Sleeve & 8" Valve Assembly - 1 Each
1" Test Corp - 1 Each
- ㉔ Inst. 8" D.I. Pipe, Class 54 - 29'
Verify Length As Required
- ㉕ Inst. 4" D.I. Pipe, Class 54 - 18'
Verify Length As Required
Trench Resurfacing - 10 Sq. Yd.
- ㉖ 8" x 4" Reducer - 1 Each
- ㉗ 4" 45° MJ Bend - 2 Each
4" Long Cast Sleeve - 1 Each
Conc. Collar Block - 1 Each
- ㉘ Relocate Extg. Meter & Box



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DRAINAGE & UTILITY NOTES	SHEET NO. 6B

SEC. 2 & 11, T. 37 S, R. 2 W, W.M.
(City Of Central Point)

See Sht. 7B For Notes.

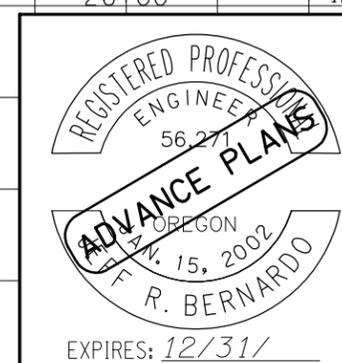
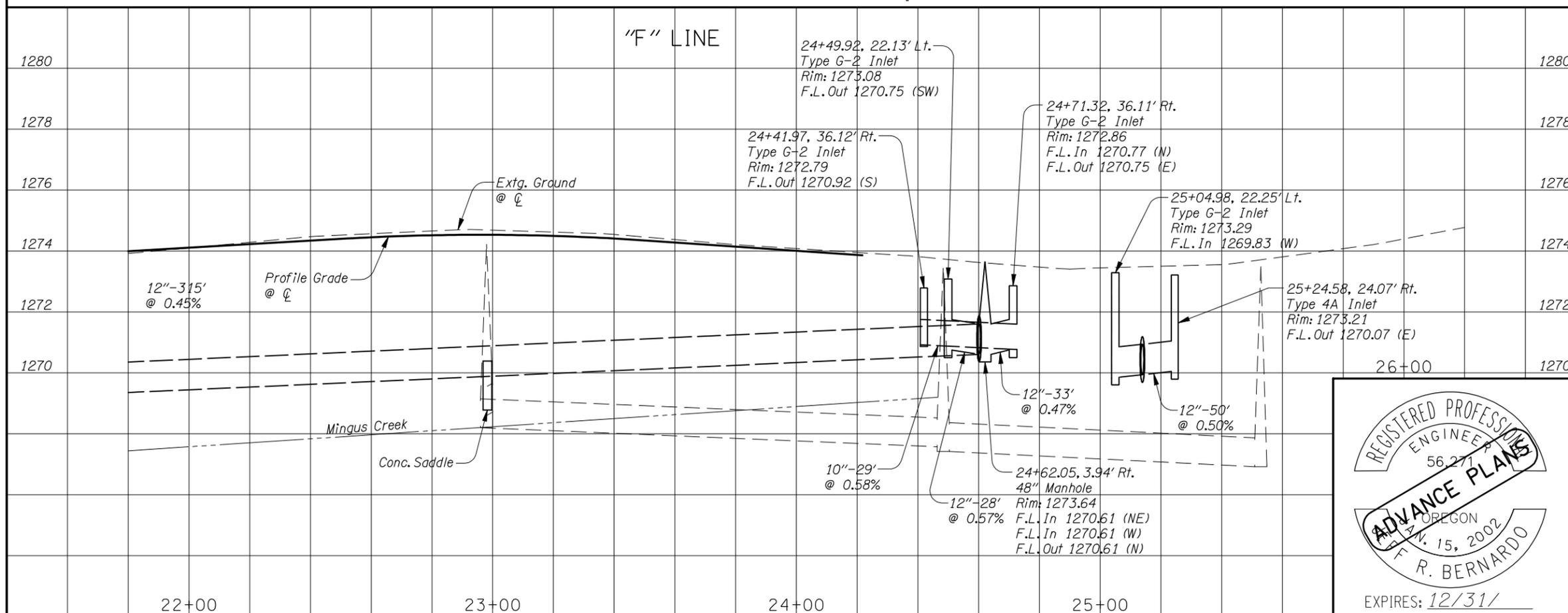


WATERLINE NOTES:

- 3' Minimum Cover On All New Waterline Mainline Pipe.
- Where Vert. Bends Are Not Specified, Contractor To Bend/Deflect Pipe To Achieve Vert. Alignment Shown To Meet Cover And Utility Clearance Requirements.
- Long Sleeves Shown On Plans Are Not Included In Bid Item List Are To Facilitate Construction. Locate As Necessary.
- All Waterline Pipe And Fittings To Be Restrained.
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SHEET NO. **7A**

- ① Adjust Extg. Manhole To Grade - 3
- ② Adjust Extg. Valve Box To Grade - 1
- ③ Adjust Extg. Water Meter Box To Grade
- ④ Sta. 24+49.92, Rt.
Const. Type CG-2 Inlet
Inst. 12" Stm. Sew. Pipe - 28'
5' Depth
(See Drg. No. RD366)
- ⑤ Sta. 24+41.97, 35.82' Rt.
Const. Type CG-2 Inlet
Inst. 10" Stm. Sew. Pipe - 29'
5' Depth
- ⑥ Sta. 24+71.32, 35.85' Rt.
Const. Type CG-2 Inlet
Inst. 12" Stm. Sew. Pipe - 33'
5' Depth
- ⑦ Sta. 24+62.05, 3.94' Rt.
Const. Manhole
Inst. 12" Stm. Sew. Pipe - 315'
5' Depth
Const. Concrete Saddle
(See Drg. No. RD306)
- ⑧ Sta. 25+25.00, Rt.
Const. Type 4A Inlet
Inst. 12" Stm. Sew. Pipe - 50'
5' Depth
Connect To Extg. Inlet
- ⑨ Relocate Extg. Utility Pole
(By Others)
- ⑩ Sta. 24+28.50, 31' Rt.
Inst. Fire Hydrant Assembly - 1 Each
Connect To Extg. Valve
- ⑪ Relocate Extg. Utility Box
(By Others)
- ⑫ Sta. 23+54.00, 20' Rt.
Reconnect Extg. Water Service To Extg. 12" Main
- ⑬ Sta. 24+68.25, 18.2' Rt.
12" Tapping Sleeve & 8" Valve Assembly - 1 Each
1" Test Corp - 1 Each
- ⑭ Inst. 8" D.I. Pipe, Class 54 - 43'
Verify Length As Required
- ⑮ Inst. 4" D.I. Pipe, Class 54 - 24'
Verify Length As Required
Trench Resurfacing - 14 Sq.Yd.
- ⑯ 8" x 4" Reducer - 1 Each
- ⑰ 4" 45° MJ Bend - 2 Each
4" Long Cast Sleeve - 1 Each
Conc. Collar Block - 1 Each



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