City of Sherwood Oregon

*Home of the Tualatin River National Wildlife Refuge*

**2018 Pavement Rehabilitation Projects**

DATE: March 16, 2018 **ADDENDUM NO. 1**

Addition/Change to the Contract Documents
The work provided for in this addendum shall become a part of the drawings and specifications for this project.

1. Contractor to adhere to the attached Clean Water Services Storm Water Connection Permit Authorization.

2. Sheets 3 and 4 have been modified based upon Clean Water Services comments (attached).

This ADDENDUM shall be signed and attached to the Bidder's Proposal and shall subsequently become part of the Contract Documents.

| | |
|---|---|
| Company Name | |
| | |
| Contractor Name | |
| | |
| Contractor Signature | |
| | |
| Date | |

# *Storm Water Connection Permit Authorization*

Clean Water Services

Our commitment is clear.

| Permit Number |
| --- |
| 18-000763 |

This Authorization to issue a Storm Water Connection Permit, in accordance with the requirements of Resolution and Order 17-5, including section 3.01.2, when signed and dated by the District, verifies that the District has reviewed the construction plans, as submitted by the City, and concurs that they are in accordance with the previously identified design standards and either, 1) the Service Provider Letter (SPL) or, 2) the Sensitive Area Pre-Screening Site Assessment acting as the SPL issued for project and is in compliance with the District's water quality protection standards. This authorizes the Jurisdictional City to issue a Stormwater Connection Permit for the project.

If modifications occur after the issuance of this letter which create a violation of the Service Provider Letter, then the Permit becomes null and void.

It is the responsibility of the Jurisdictional City to notify Clean Water Services of changes that effect the Service Provider Letter.

Service Provider Letter Number: **18-000370** Date of Service Provider Letter: **February 2, 2018**

Map and Tax Lot #: **SW Merryman Street ROW SW Willamette Square** Project Name: **Merryman Willamette Tualatin Street Paving Projects**

Developer/Applicant: **City of Sherwood** Jurisdictional City: **Sherwood**

**Comments:**

**Ensure final plans permitted by the City include the following:**
**1.) 1200-CN - Add check mark on BMP Matrix for Ground Cover and Preserve Natural Vegetation.**
**2.) 1200-CN - Add detail to detail sheet for Straw Wattles and Check Dams.**

CONCLUSION

The City, in accepting this Authorization for permit ,and authorizing construction of permitted activities, certifies that all portions of this project have been designed to CWS Design and Construction Standards, R&O 17-5, and have been reviewed and approved by the Jurisdictional City.

Storm Water Connection Permit authorized by: Date:

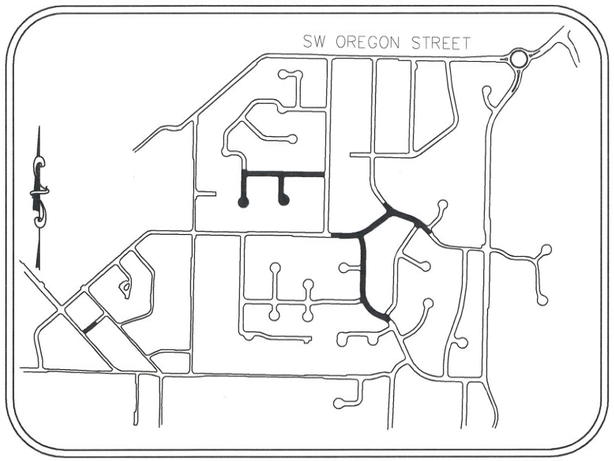
**3/15/2018**

***Steve Olson***

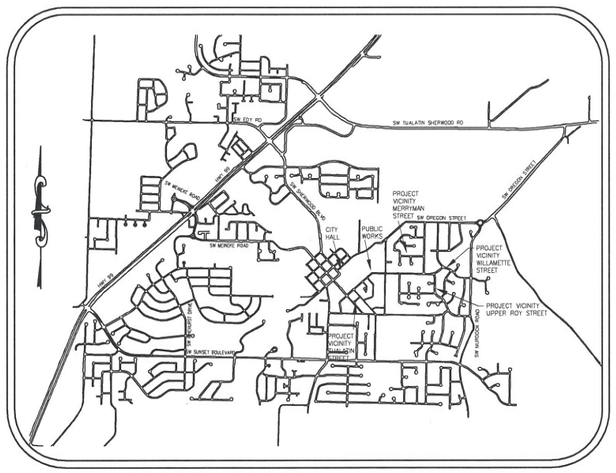
5/18/2017

E:\Development Svcs\Plan Review\Storm Water Connection\StormWaterConnectionPermits archives\2018\Sherwood - Merryman Willamette Tualatin Street Paving Projects - 03-15-2018.xls

# ESC PLAN FOR SITES 1 TO 5 ACRES




SITE MAP NOT TO SCALE




VICINITY MAP NOT TO SCALE

## PROJECT LOCATION:

SW TUALATIN STREET (SW WASHINGTON STREET TO SW PINE STREET),
SW MERRYMAN STREET (WEST OF SW HALL STREET)
SW NOTTINGHAM COURT (SOUTH OF SW MERRYMAN STREET)
SW QUIVER COURT (SOUTH OF SW MERRYMAN STREET)
SW WILLAMETTE STREET (SW HALL STREET TO SW MEISINGER PLACE)
SW UPPER ROY (SW WILLAMETTE STREET TO SW COCHRAN DRIVE)

WASHINGTON COUNTY, OREGON
LATITUDE = 45°21'21"N, LONGITUDE = 122°50'5"

## PROPERTY DESCRIPTION:

LOCATED IN SECTIONS 32A AND 32BD,
TOWNSHIP 1 SOUTH, RANGE 1 WEST,
WILLAMETTE MERIDIAN, WASHINGTON COUNTY, OREGON

## DEVELOPER

DEVELOPER/COMPANY: CITY OF SHERWOOD ENGINEERING DEPARTMENT
CONTACT: CRAIG C. CHRISTENSEN, P.E.
ADDRESS: 22560 SW PINE STREET
ADDRESS: SHERWOOD, OREGON 97140
PHONE: 503-925-2309
FAX: 503-625-0629

## PLANNING / ENGINEERING / SURVEYING FIRM

ENGINEERING & SURVEY FIRM: CITY OF SHERWOOD ENGINEERING DEPARTMENT
CONTACT: CRAIG C. CHRISTENSEN, P.E.
ADDRESS: 22560 SW PINE STREET
ADDRESS SHERWOOD, OREGON 97140
PHONE: 503-925-2309
FAX: 503-625-0629

## NARRATIVE DESCRIPTIONS

EXISTING SITE CONDITIONS

* PAVED STREET

DEVELOPED CONDITIONS

* PAVED STREET

NATURE OF CONSTRUCTION ACTIVITY AND ESTIMATED TIME TABLE

* CLEARING (DATES, FROM & TO: APRIL 2018)
* MASS GRADING (DATES, FROM & TO: APRIL TO JUNE 2018)
* UTILITY INSTALLATION (DATES, FROM & TO: APRIL TO MAY 2018)
* STREET CONSTRUCTION (DATES, FROM & TO: APRIL TO JUNE 2018)
* FINAL STABILIZATION (DATES, FROM & TO: JULY 2018)

TOTAL SITE AREA = 124,146 SF = 2.85 ACRES

TOTAL DISTURBED AREA = 124,146 SF = 2.85 ACRES

SITE SOIL CLASSIFICATION:

ALOHA AND QUATAMA

ON-SITE SOILS HAVE A MODERATE TO HIGH EROSION POTENTIAL. ALL FILL MATERIAL SHALL BE GENERATED ON-SITE FROM GRADING EXCAVATION AND UTILITY TRENCH SPOILS.

RECEIVING WATER BODIES:

NEAREST WATER BODY: ROCK CREEK AND CEDAR CREEK

INSPECTION FREQUENCY:

| SITE CONDITION | MINIMUM FREQUENCY |
|---|---|
| 1. ACTIVE PERIOD | WEEKLY WHEN STORMWATER RUNOFF, INCLUDING RUNOFF FROM SNOW MELT, IS OCCURRING.<br><br>AT LEAST ONCE EVERY MONTH, REGARDLESS OF WHETHER STORMWATER RUNOFF IS OCCURRING. |
| 2. PRIOR TO THE SITE BECOMING INACTIVE OR IN ANTICIPATION OF SITE INACCESSIBILITY. | ONCE TO ENSURE THAT EROSION AND SEDIMENT CONTROL MEASURES ARE IN WORKING ORDER. ANY NECESSARY MAINTENANCE AND REPAIR MUST BE MADE PRIOR TO LEAVING THE SITE. |
| 3. INACTIVE PERIODS GREATER THAN FOURTEEN (14) CONSECUTIVE CALENDAR DAYS. | ONCE EVERY MONTH. |
| 4. PERIODS DURING WHICH THE SITE IS INACCESSIBLE DUE TO INCLEMENT WEATHER. | IF PRACTICAL, INSPECTIONS MUST OCCUR DAILY AT A RELEVANT AND ACCESSIBLE DISCHARGE POINT OR DOWNSTREAM LOCATION. |
| 5. PERIODS DURING WHICH DISCHARGE IS UNLIKELY DUE TO FROZEN CONDITIONS. | MONTHLY. RESUME MONITORING IMMEDIATELY UPON MELT, OR WHEN WEATHER CONDITIONS MAKE DISCHARGES LIKELY. |

* HOLD A PRE-CONSTRUCTION MEETING OF PROJECT CONSTRUCTION PERSONNEL THAT INCLUDES THE INSPECTOR TO DISCUSS EROSION AND SEDIMENT CONTROL MEASURES AND CONSTRUCTION LIMITS.
* ALL INSPECTIONS MUST BE MADE IN ACCORDANCE WITH DEQ 1200-CN PERMIT REQUIREMENTS.
* INSPECTION LOGS MUST BE KEPT IN ACCORDANCE WITH DEQ'S 1200-CN PERMIT REQUIREMENTS.
* RETAIN A COPY OF THE ESCP AND ALL REVISIONS ON SITE AND MAKE IT AVAILABLE ON REQUEST TO DEQ, AGENT, OR THE LOCAL MUNICIPALITY. DURING INACTIVE PERIODS OF GREATER THAN SEVEN (7) CONSECUTIVE CALENDAR DAYS, RETAIN THE ESCP AT THE CONSTRUCTION SITE OR AT ANOTHER LOCATION.

## STANDARD EROSION AND SEDIMENT CONTROL PLAN DRAWING NOTES:

1. All permit registrants must implement the ESCP. Failure to implement any of the control measures or practices described in the ESCP is a violation of the permit.
2. The ESCP measures shown on this plan are minimum requirements for anticipated site conditions. During the construction period, upgrade these measures as needed to comply with all applicable local, state, and federal erosion and sediment control regulations.
3. Submission of all ESCP revisions is not required. Submittal of the ESCP revisions is only under specific conditions. Submit all necessary revision to DEQ or Agent.
4. Phase clearing and grading to the maximum extent practical to prevent exposed inactive areas from becoming a source of erosion.
5. Identify, mark, and protect (by fencing off or other means) critical riparian areas and vegetation including important trees and associated rooting zones, and vegetation areas to be preserved. Identify vegetative buffer zones between the site and sensitive areas (e.g., wetlands), and other areas to be preserved, especially in perimeter areas.
6. Preserve existing vegetation when practical and re-vegetate open areas. Re-vegetate open areas when practicable before and after grading or construction. Identify the type of vegetative seed mix used.
7. Erosion and sediment control measures including perimeter sediment control must be in place before vegetation is disturbed and must remain in place and be maintained, repaired, and promptly implemented following procedures established for the duration of construction, including protection for active storm drain inlets and catch basins and appropriate non-stormwater pollution controls.
8. Establish concrete truck and other concrete equipment washout areas before beginning concrete work. Direct all wash water into a pit or leak-proof container. Handle wash water as waste, concrete discharge to waters of the state is prohibited.
9. Apply temporary and/or permanent soil stabilization measures immediately on all disturbed areas as grading progresses and for all roadways including gravel roadways.
10. Establish material and waste storage areas, and other non-stormwater controls.
11. Prevent tracking of sediment onto public or private roads using BMPs such as: graveled (or paved) exits and parking areas, gravel all unpaved roads located onsite, or use an exit tire wash. These BMPs must be in place prior to land-disturbing activities.
12. When trucking saturated soils from the site, either use water-tight trucks or drain loads on site.
13. Use BMPs to prevent or minimize stormwater exposure to pollutants from spills; vehicle and equipment fueling, maintenance, and storage; other cleaning and maintenance activities; and waste handling activities. These pollutants include fuel, hydraulic fluid, and other oils from vehicles and machinery, as well as debris, leftover paints, solvents, and glues from construction operations.
14. Implement the following BMPs when applicable: written spill prevention and response procedures, employee training on spill prevention and proper disposal procedures, spill kits in all vehicles, regular maintenance schedule for vehicles and machinery, material delivery and storage controls, training and signage, and covered storage areas for waste and supplies.
15. Use water, soil-binding agent or other dust control technique as needed to avoid wind-blown soil.
16. The application rate of fertilizers used to reestablish vegetation must follow manufacturer's recommendations to minimize nutrient releases to surface waters. Exercise caution when using time-release fertilizers within any waterway riparian zone.
17. If a stormwater treatment system (for example, electro-coagulation, flocculation, filtration, etc.) for sediment or other pollutant removal is employed, submit an operation and maintenance plan (including system schematic, location of system, location of inlet, location of discharge, discharge dispersion device design, and a sampling plan and frequency) before operating the treatment system. Obtain plan approval before operating the treatment system. Operate and maintain the treatment system according to manufacturer's specifications.
18. At the end of each workday soil stockpiles must be stabilized or covered, or other BMPs must be implemented to prevent discharges to surface waters or conveyance systems leading to surface waters.
19. Construction activities must avoid or minimize excavation and creation of bare ground during wet weather October 01 – May 31.
20. Sediment fence: remove trapped sediment before it reaches one third of the above ground fence height and before fence removal.
21. Other sediment barriers (such as biobags): remove sediment before it reaches two inches depth above ground height. and before BMP removal.
22. Catch basins: clean before retention capacity has been reduced by fifty percent. Sediment basins and sediment traps: remove trapped sediments before design capacity has been reduced by fifty percent and at completion of project.
23. Within 24 hours, significant sediment that has left the construction site, must be remediated. Investigate the cause of the sediment release and implement steps to prevent a recurrence of the discharge within the same 24 hours. Any in-stream clean up of sediment shall be performed according to the Oregon Division of State Lands required timeframe.
24. The intentional washing of sediment into storm sewers or drainage ways must not occur. Vacuuming or dry sweeping and material pickup must be used to cleanup released sediments.
25. Provide permanent erosion control measures on all exposed areas. Do not remove temporary sediment control practices until permanent vegetation or other cover of exposed areas is established. However, do remove all temporary erosion control measures as exposed areas become stabilized, unless doing so conflicts with local requirements. Properly dispose of construction materials and waste, including sediment retained by temporary BMPs.
26. If vegetative seed mixes are specified, seeding must take place no later that September 1; the type and percentages of seed in the mix must be identified on the plans.
27. All pumping of sediment laden water shall be discharged over an undisturbed, preferably vegetated area, and through a sediment control BMP i.e. (filter bag).
28. All exposed soils must be covered during the wet weather period, October 01 – May 31.
29. If water of the state is within the project site or within 50 feet of the project boundary, maintain the existing natural buffer within the 50-foot zone for the duration of the permit coverage, or maintain less than the entire existing natural buffer and provide additional erosion and sediment control BMPs.

THE PERMITTEE IS REQUIRED TO MEET ALL THE CONDITIONS OF THE 1200-CN PERMIT. THIS ESCP AND GENERAL CONDITIONS HAVE BEEN DEVELOPED TO FACILITATE COMPLIANCE WITH THE 1200-CN PERMIT REQUIREMENTS. IN CASES OF DISCREPANCIES OR OMISSIONS, THE 1200-CN PERMIT REQUIREMENTS SUPERCEDE REQUIREMENTS OF THIS PLAN.

## BMP MATRIX FOR CONSTRUCTION PHASES

REFER TO DEQ GUIDANCE MANUAL FOR A COMPREHENSIVE LIST OF AVAILABLE BMP'S.

| | CLEARING | MASS GRADING | UTILITY INSTALLATION | STREET CONSTRUCTION | FINAL STABILIZATION | WET WEATHER (OCT. 1 - MAY 31ST) |
|---|---|---|---|---|---|---|
| **EROSION PREVENTION** | | | | | | |
| PRESERVE NATURAL VEGETATION | X | X | X | X | X | X |
| GROUND COVER | | | | | X | X |
| HYDRAULIC APPLICATIONS | | | | | | |
| PLASTIC SHEETING | | | | | | |
| MATTING | | | | | | |
| DUST CONTROL | | X | | X | X | X |
| TEMPORARY/ PERMANENT SEEDING | | | | | X | X |
| BUFFER ZONE | | | | | | |
| OTHER: | | | | | | |
| **SEDIMENT CONTROL** | | | | | | |
| SEDIMENT FENCE (PERIMETER) | | | | | | |
| SEDIMENT FENCE (INTERIOR) | | | | | | |
| STRAW WATTLES | **X | X | X | X | X | X |
| FILTER BERM | | | | | | |
| INLET PROTECTION | **X | X | X | X | X | X |
| DEWATERING | | | X | | | X |
| SEDIMENT TRAP | | | | | | |
| NATURAL BUFFER ENCROACHMENT | | | | | | |
| OTHER: BIOBAG CHECK DAMS | **X | X | | X | X | X |
| **RUN OFF CONTROL** | | | | | | |
| CONSTRUCTION ENTRANCE | | | | | | |
| PIPE SLOPE DRAIN | | | | | | |
| OUTLET PROTECTION | | | | | | |
| SURFACE ROUGHENING | | | | | | |
| CHECK DAMS | | | | | | |
| OTHER: | | | | | | |
| **POLLUTION PREVENTION** | | | | | | |
| PROPER SIGNAGE | X | X | X | X | X | X |
| HAZ WASTE MGMT | X | X | X | X | X | X |
| SPILL KIT ON-SITE | X | X | X | X | X | X |
| CONCRETE WASHOUT AREA | X | X | X | X | X | X |
| OTHER: | | | | | | |

* SIGNIFIES ADDITIONAL BMP'S REQUIRED FOR WORK WITHIN 50' OF WATER OF THE STATE.
** SIGNIFIES BMP THAT WILL BE INSTALLED PRIOR TO ANY GROUND DISTURBING ACTIVITY.

## RATIONALE STATEMENT

A COMPREHENSIVE LIST OF AVAILABLE BEST MANAGEMENT PRACTICES (BMP) OPTIONS BASED ON DEQ'S GUIDANCE MANUAL HAS BEEN REVIEWED TO COMPLETE THIS EROSION AND SEDIMENT CONTROL PLAN. SOME OF THE ABOVE LISTED BMP'S WERE NOT CHOSEN BECAUSE THEY WERE DETERMINED TO NOT EFFECTIVELY MANAGE EROSION PREVENTION AND SEDIMENT CONTROL FOR THIS PROJECT BASED ON SPECIFIC SITE CONDITIONS, INCLUDING SOIL CONDITIONS TOPOGRAPHIC CONSTRAINTS, ACCESSIBILITY TO THE SITE, AND OTHER RELATED CONDITIONS, AS THE PROJECT PROGRESSES AND THERE IS A NEED TO REVISE THE ESC PLAN, AN ACTION PLAN WILL BE SUBMITTED.

INITIAL

PERMITTEE'S SITE INSPECTOR: ANDY STIRLING
COMPANY/AGENCY: CITY OF SHERWOOD
PHONE: (503) 925-2307
FAX: (503) 625-0629
E-MAIL: STIRLINGA@SHERWOODOREGON.GOV
DESCRIPTION OF EXPERIENCE:
10 YEARS OF EXPERIENCE IN JURISDICTIONAL ESC INSPECTIONS, ENFORCEMENT, PLAN REVIEW, AND REPORTING. CERTIFIED ESC INSPECTOR: CESCL ID# ECO-3-5101622.

## SHEET INDEX

### EROSION AND SEDIMENT CONTROL PLANS


SHEET 3/11 – 1200CN COVER SHEET
SHEET 4/11 – 1200CN NOTES
SHEET 6/11 – SW MERRYMAN STREET – PLAN AND PROFILE
SHEET 7/11 – SW WILLAMETTE STREET – PLAN VIEW
SHEET 8/11 – SW UPPER ROY STREET – PLAN VIEW
SHEET 9/11 – SW TUALATIN STREET – PLAN VIEW
SHEET 11/11 – CITY OF SHERWOOD DETAILS


## ATTENTION EXCAVATORS:

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 THESE RULES FROM THE CENTER BY CALLING 503-232-1987. IF YOU HAVE ANY QUESTIONS ABOUT THE RULES, YOU MAY CONTACT THE CENTER. YOU MUST NOTIFY THE CENTER AT LEAST TWO BUSINESS DAYS, BEFORE COMMENCING AN EXCAVATION. CALL 503-246-6699.

1200CN COVER

2018 PAVEMENT REHABILITATION

LOCATED IN SECTIONS 32A AND 32BD,
T2S, R1W, W.M. IN THE CITY OF
SHERWOOD, WASHINGTON COUNTY,
STATE OF OREGON


CITY OF SHERWOOD
ENGINEERING DEPARTMENT
22560 SW PINE STREET
SHERWOOD, OREGON 97140
PHONE: (503) 925-2309
FAX: (503) 625-0629
E-MAIL: engineering@sherwoodoregon.gov


REGISTERED PROFESSIONAL ENGINEER – OREGON – CRAIG C. CHRISTENSEN – EXPIRES: 12-31-19

3-16-18

DESIGNED BY: CCC
DRAWN BY: CCC
CHECKED BY: RS
FULL SIZE SCALE: AS NOTED
DATE: MARCH 2018
MERRYMAN_SHEETS

| | | |
|---|---|---|
| 03-16-18 | 1 | ADDENDUM #1 |

REVISIONS

JOB NO.

SHEET NO. 3 OF 11

## PRE-CONSTRUCTION, CLEARING, AND DEMOLITION NOTES:

1. ALL BASE ESC MEASURES (INLET PROTECTION, PERIMETER SEDIMENT CONTROL, GRAVEL CONSTRUCTION ENTRANCES, ETC.) MUST BE IN PLACE, FUNCTIONAL, AND APPROVED IN AN INITIAL INSPECTION, PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.

2. SEDIMENT BARRIERS APPROVED FOR USE INCLUDE SEDIMENT FENCE, BERMS CONSTRUCTED OUT OF MULCH, CHIPPINGS, OR OTHER SUITABLE MATERIAL, STRAW WATTLES, OR OTHER APPROVED MATERIALS.

3. SENSITIVE RESOURCES INCLUDING, BUT NOT LIMITED TO, TREES, WETLANDS, AND RIPARIAN PROTECTION AREAS SHALL BE CLEARLY DELINEATED WITH ORANGE CONSTRUCTION FENCING OR CHAIN LINK FENCING IN A MANNER THAT IS CLEARLY VISIBLE TO ANYONE IN THE AREA. NO ACTIVITIES ARE PERMITTED TO OCCUR BEYOND THE CONSTRUCTION BARRIER.

4. CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES INCLUDING, BUT NOT LIMITED TO, STREET SWEEPING, AND VACUUMING, MAY BE REQUIRED TO INSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.

5. RUN-ON AND RUN-OFF CONTROLS SHALL BE IN PLACE AND FUNCTIONING PRIOR TO BEGINNING SUBSTANTIAL CONSTRUCTION ACTIVITIES. RUN-ON AND RUN-OFF CONTROL MEASURES INCLUDE: SLOPE DRAINS (WITH OUTLET PROTECTION), CHECK DAMS, AND SURFACE ROUGHENING.

THESE EROSION AND SEDIMENT CONTROL PLANS ASSUME "DRY WEATHER" CONSTRUCTION. "WET WEATHER" CONSTRUCTION MEASURES NEED TO BE APPLIED BETWEEN OCTOBER 1ST AND MAY 31ST.

## GRADING, STREET AND UTILITY EROSION AND SEDIMENT CONSTRUCTION NOTES:

1. SEED USED FOR TEMPORARY OR PERMANENT SEEDING SHALL BE COMPOSED OF ONE OF THE FOLLOWING MIXTURES, UNLESS OTHERWISE AUTHORIZED:
   - A. VEGETATED CORRIDOR AREAS REQUIRE NATIVE SEED MIXES. SEE RESTORATION PLAN FOR APPROPRIATE SEED MIX.
   - B. DWARF GRASS MIX (MIN. 100 LB./AC.)
     1. DWARF PERENNIAL RYEGRASS (80% BY WEIGHT)
     2. CREEPING RED FESCUE (20% BY WEIGHT)
   - C. STANDARD HEIGHT GRASS MIX (MIN. 100LB./AC.)
     1. ANNUAL RYEGRASS (40% BY WEIGHT)
     2. TURF-TYPE FESCUE (60% BY WEIGHT)

2. SLOPE TO RECEIVE TEMPORARY OR PERMANENT SEEDING SHALL HAVE THE SURFACE ROUGHENED BY MEANS OF TRACK-WALKING OR THE USE OF OTHER APPROVED IMPLEMENTS. SURFACE ROUGHENING IMPROVES SEED BEDDING AND REDUCES RUN-OFF VELOCITY.

3. LONG TERM SLOPE STABILIZATION MEASURES SHALL INCLUDE THE ESTABLISHMENT OF PERMANENT VEGETATIVE COVER VIA SEEDING WITH APPROVED MIX AND APPLICATION RATE.

4. TEMPORARY SLOPE STABILIZATION MEASURES SHALL INCLUDE: COVERING EXPOSED SOIL WITH PLASTIC SHEETING, STRAW MULCHING, WOOD CHIPS, OR OTHER APPROVED MEASURES.

5. STOCKPILED SOIL OR STRIPPINGS SHALL BE PLACED IN A STABLE LOCATION AND CONFIGURATION. DURING "WET WEATHER" PERIODS, STOCKPILES SHALL BE COVERED WITH PLASTIC SHEETING OR STRAW MULCH. SEDIMENT FENCE IS REQUIRED AROUND THE PERIMETER OF THE STOCKPILE.

6. EXPOSED CUT OR FILL AREAS SHALL BE STABILIZED THROUGH THE USE OF TEMPORARY SEEDING AND MULCHING, EROSION CONTROL BLANKETS OR MATS, MID-SLOPE SEDIMENT FENCES OR WATTLES, OR OTHER APPROPRIATE MEASURES. SLOPES EXCEEDING 25% MAY REQUIRE ADDITIONAL EROSION CONTROL MEASURES.

7. AREAS SUBJECT TO WIND EROSION SHALL USE APPROPRIATE DUST CONTROL MEASURES INCLUDING THE APPLICATION OF A FINE SPRAY OF WATER, PLASTIC SHEETING, STRAW MULCHING, OR OTHER APPROVED MEASURES.

8. CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES INCLUDING, BUT NOT LIMITED TO, TIRE WASHES, STREET SWEEPING, AND VACUUMING MAY BE BE REQUIRED TO INSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.

9. ACTIVE INLETS TO STORM WATER SYSTEMS SHALL BE PROTECTED THROUGH THE USE OF APPROVED INLET PROTECTION MEASURES. ALL INLET PROTECTION MEASURES ARE TO BE REGULARLY INSPECTED AND MAINTAINED AS NEEDED.

10. SATURATED MATERIALS THAT ARE HAULED OFF-SITE MUST BE TRANSPORTED IN WATER-TIGHT TRUCKS TO ELIMINATE SPILLAGE OF SEDIMENT AND SEDIMENT-LADEN WATER.

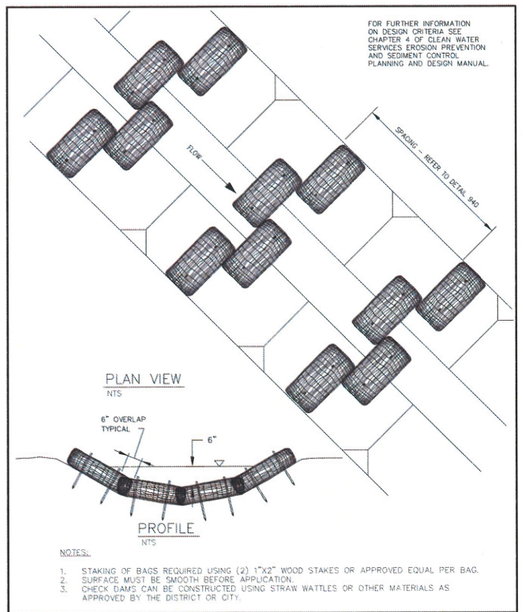
11. AN AREA SHALL BE PROVIDED FOR THE WASHING OUT OF CONCRETE TRUCKS IN A LOCATION THAT DOES NOT PROVIDE RUN-OFF THAT CAN ENTER THE STORM WATER SYSTEM OR SURFACE WATERS. IF THE CONCRETE WASH-OUT AREA CAN NOT BE CONSTRUCTED GREATER THAN 50' FROM ANY DISCHARGE POINT, SECONDARY MEASURES SUCH AS BERMS OR TEMPORARY SETTLING PITS MAY BE REQUIRED. THE WASH-OUT SHALL BE LOCATED WITHIN SIX FEET OF TRUCK ACCESS AND BE CLEANED WHEN IT REACHES 50% OF THE CAPACITY.

12. SWEEPINGS FROM EXPOSED AGGREGATE CONCRETE SHALL NOT BE TRANSFERRED TO THE STORM WATER SYSTEM. SWEEPINGS SHALL BE PICKED UP AND DISPOSED IN THE TRASH.

13. AVOID PAVING IN WET WEATHER WHEN PAVING CHEMICALS CAN RUN-OFF INTO THE STORM WATER SYSTEM.

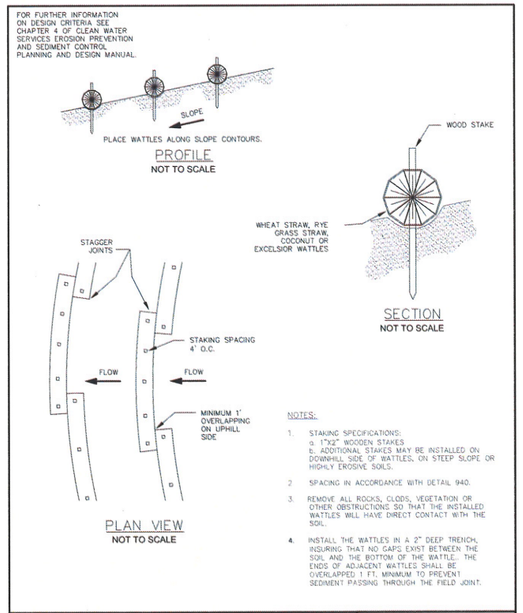
14. USE BMPs SUCH AS CHECK-DAMS, BERMS, AND INLET PROTECTION TO PREVENT RUN-OFF FROM REACHING DISCHARGE POINTS.

15. COVER CATCH BASINS, MANHOLES, AND OTHER DISCHARGE POINTS WHEN APPLYING SEAL COAT, TACK COAT, ETC. TO PREVENT INTRODUCING THESE MATERIALS TO THE STORM WATER SYSTEM.



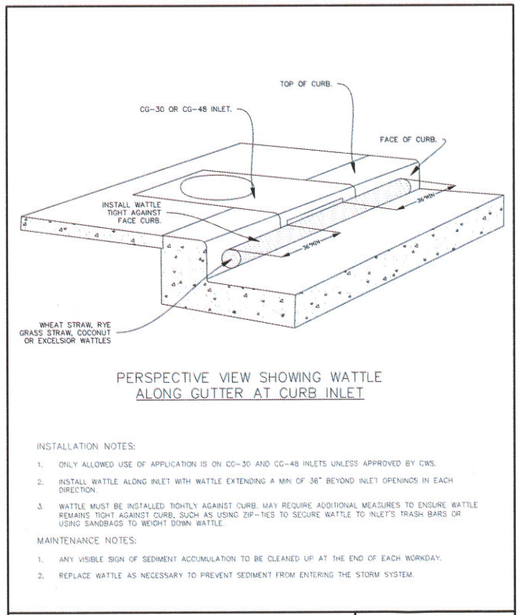

CHECK DAM ⚠
BIO-FILTER BAG

DRAWING NO. 845 REVISED 12-16



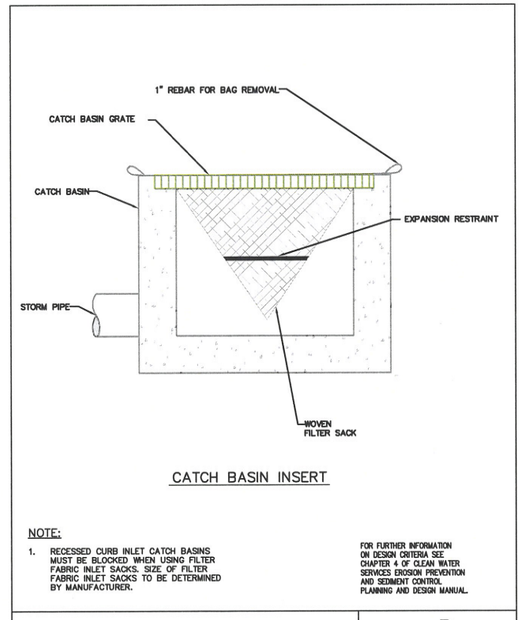

WATTLES ⚠

DRAWING NO. 880 REVISED 12-16




CURB AND GUTTER
INLET PROTECTION

DRAWING NO. 905 REVISED 2-17




INLET PROTECTION
TYPE 5

DRAWING NO. 920 REVISED 12-16

1200CN NOTES (LINEAR) AND DETAILS

2018 PAVEMENT REHABILITATION

LOCATED IN SECTIONS 32A AND 32BD, T2S, R1W, W.M. IN THE CITY OF SHERWOOD, WASHINGTON COUNTY, STATE OF OREGON

CITY OF SHERWOOD
ENGINEERING DEPARTMENT
22560 SW PINE STREET
SHERWOOD, OREGON 97140
PHONE: (503) 925-2309
FAX: (503) 625-0629
E-MAIL: engineering@sherwoodoregon.gov

REGISTERED PROFESSIONAL ENGINEER
OREGON
JULY 17, 1987
CRAIG C. CHRISTENSEN
EXPIRES: 12-31-19

3-16-18

| | |
|---|---|
| DESIGNED BY: | CCC |
| DRAWN BY: | CCC |
| CHECKED BY: | RS |
| FULL SIZE SCALE: | AS NOTED |
| DATE: | MARCH 2018 |
| MERRYMAN_SHEETS | |

| | | |
|---|---|---|
| 03-16-18 | 1 | ADDENDUM #1 |
| | | REVISIONS |

JOB NO.

SHEET NO. 4 OF 11