

# CITY OF SHERWOOD

## MICHAEL COURT STORM REHABILITATION

### JANUARY 2020

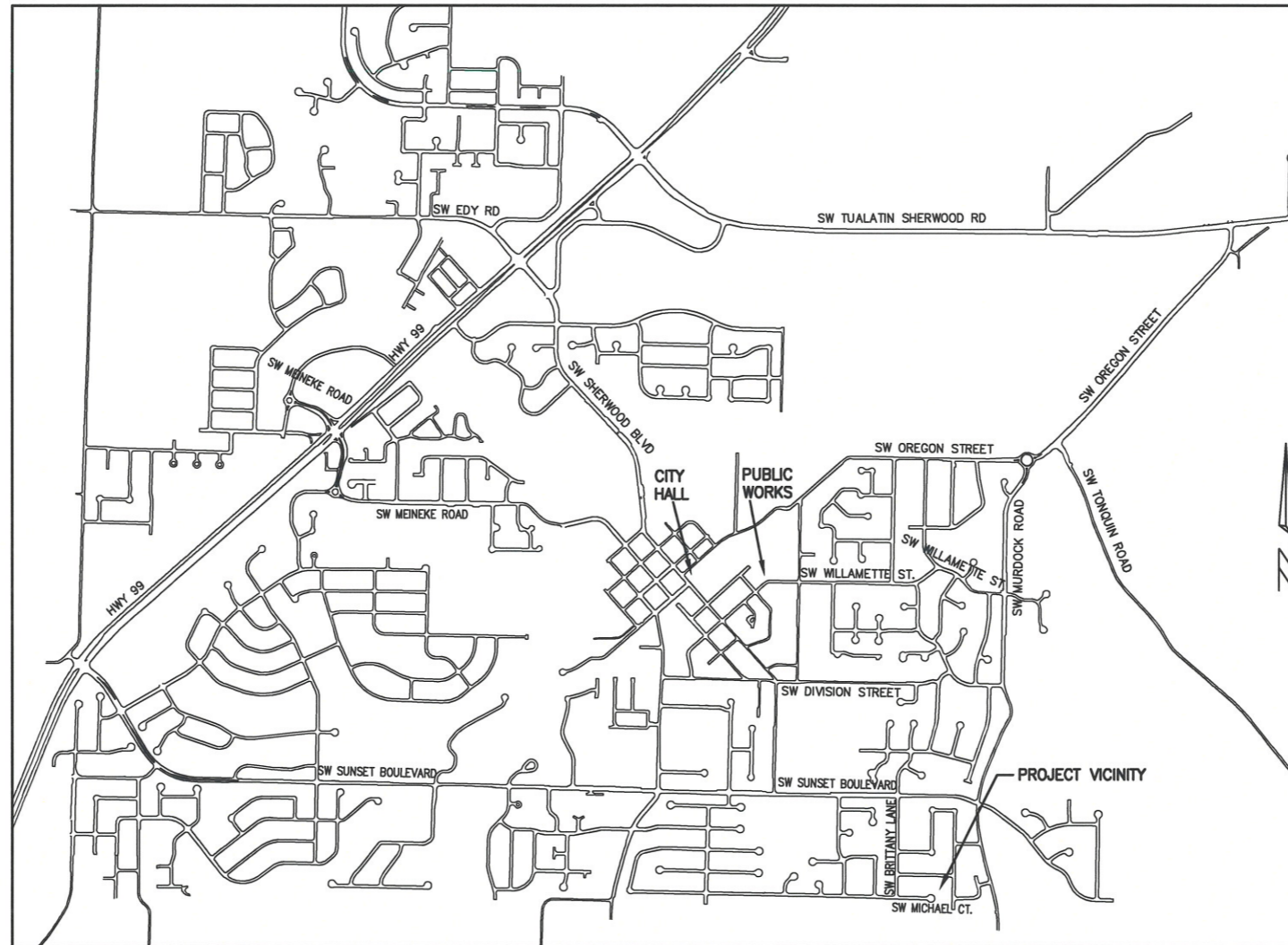
### (CONTRACT DRAWINGS)

**PROJECT LOCATION:**  
EAST OF MICHAEL COURT AND SOUTH OF  
LOWELL LANE

**DEVELOPER/OWNER:**  
CITY OF SHERWOOD  
22560 SW PINE ST  
SHERWOOD, OREGON 97140  
CONTACT: CRAIG CHRISTENSEN, P.E.  
PH. 503-925-2311  
CHRISTENSENC@SHERWOODOREGON.GOV

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THIS DESIGN COMPLIES WITH ORS 92.044 (7) IN THAT NO UTILITY INFRASTRUCTURE IS DESIGNED TO BE WITHIN ONE (1) FOOT OF A SURVEY MONUMENT LOCATION SHOWN ON A SUBDIVISION OR PARTITION PLAT. NO DESIGN EXCEPTIONS NOR FINAL FIELD LOCATION CHANGES SHALL BE PERMITTED IF THAT CHANGE WOULD CAUSE ANY UTILITY INFRASTRUCTURE TO BE PLACED WITHIN THE PROHIBITED AREA.



**VICINITY MAP**  
NOT TO SCALE

**INSPECTOR INFORMATION:**

CITY OF SHERWOOD: DANIEL RAVEN (503) 925-2305  
CONTACT INSPECTOR 48 HOURS PRIOR TO CONSTRUCTION.

ATTENTION EXCAVATORS: OREGON LAW REQUIRES YOU TO FOLLOW RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN OAR 952-011-0010 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 2 BUSINESS DAYS, BEFORE COMMENCING ANY EXCAVATION. CALL (503) 246-6699.

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| COVER SHEET  |  |
| MICHAEL COURT STORM REHABILITATION   |  |
| LOCATED IN SECTION 32DD, T2S, R1W, W.M.<br>IN THE CITY OF SHERWOOD,<br>WASHINGTON COUNTY, STATE OF OREGON  |  |
| CITY OF SHERWOOD<br>ENGINEERING DEPARTMENT<br>22560 SW PINE STREET<br>SHERWOOD, OREGON 97140<br>PHONE: (503) 925-2309<br>FAX: (503) 625-0629<br>E-MAIL: engineering@sherwoodoregon.gov | PROFESSIONAL<br>ENGINEER<br>CRAIG CHRISTENSEN<br>No. 15,188<br>EXPIRES: 12-31-21 |
| DESIGNED BY: CCC<br>DRAWN BY: CCC<br>CHECKED BY: RS<br>FULL SIZE SCALE: AS NOTED<br>DATE: JANUARY, 2020<br>MICHAEL COURT STORM_SHEETS  | REVISIONS  |
| JOB NO.  |  |
| SHEET NO.  | 1  |
|  | 11   |

## GENERAL NOTES

1. ALL CONSTRUCTION WORK, MATERIALS AND TESTING SHALL CONFORM TO THE APPLICABLE SECTION OF THE CITY OF SHERWOOD ENGINEERING DESIGN AND STANDARD DETAILS MANUAL. CONTRACTOR AND SUBCONTRACTOR(S) SHALL HAVE A MINIMUM OF ONE SET OF APPROVED PLANS AND CITY OF SHERWOOD CONSTRUCTION SPECIFICATIONS ON THE JOB SITE AT ALL TIMES DURING CONSTRUCTION.
2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROCURE ALL APPLICABLE PERMITS, LICENSES, AND CERTIFICATES RELATIVE TO THE TRADES TO COMPLETE THE PROJECT AND FOR THE USE OF SUCH WORK WHEN COMPLETED. COMPLIANCE SHALL BE AT ALL LEVELS, FEDERAL, STATE, COUNTY, AND LOCAL, RELATING TO THE PERFORMANCE OF THIS WORK. A CITY OF SHERWOOD OR A METRO BUSINESS LICENSE IS REQUIRED FOR THE CONTRACTOR AND ALL SUBCONTRACTORS.
3. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL UTILITY LOCATIONS AND DEPTHS PRIOR TO CONSTRUCTION AND ARRANGE FOR PROTECTION OF UTILITIES IN CONFLICT WITH PROPOSED WORK. THE LOCATIONS, DEPTH AND DESCRIPTION OF EXISTING UTILITIES SHOWN WERE COMPILED FROM AVAILABLE RECORDS AND/OR FIELD SURVEYS. THE ENGINEER OR UTILITY COMPANIES DO NOT GUARANTEE THE ACCURACY OR THE COMPLETENESS OF SUCH RECORDS. ADDITIONAL UTILITIES MAY EXIST WITHIN THE WORK AREA. POT-HOLING PRIOR TO CONSTRUCTION MAY BE NECESSARY. ALL WORK TO VERIFY UTILITY LOCATIONS AND DEPTHS IS INCIDENTAL.
4. OREGON LAW REQUIRES THE CONTRACTOR TO FOLLOW RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THESE RULES ARE SET FORTH IN OAR 952-001-0010 THROUGH OAR 952-001-0090. THE CONTRACTOR MAY OBTAIN COPIES OF THESE RULES FROM THE CENTER BY CALLING (503) 232-1987 OR BY ACCESSING THE INTERNET AT WWW.STATE.OR.US/GOVERNMENT.HTM. THE CONTRACTOR MUST NOTIFY THE CENTER AT LEAST 2 BUSINESS DAYS, BUT NOT MORE THAN 10 BUSINESS DAYS, BEFORE COMMENCING AN EXCAVATION. CALL (503) 246-6699.
5. THE CONTRACTOR SHALL MAKE PROVISIONS TO KEEP ALL EXISTING UTILITIES IN SERVICE AND PROTECT THEM DURING CONSTRUCTION. CONTRACTOR SHALL IMMEDIATELY REPAIR OR REPLACE ANY DAMAGED UTILITIES USING MATERIAL AND METHODS APPROVED BY THE UTILITY OWNER. NO SERVICE INTERRUPTIONS SHALL BE PERMITTED WITHOUT PRIOR WRITTEN AGREEMENT WITH THE UTILITY PROVIDER AND NOTIFICATION TO SERVICE CUSTOMER. PLEASE NOTE THE STORM SEWER IN THIS AREA IS SHALLOW - DO NOT DAMAGE. REPAIR TO UTILITIES DAMAGED BY THE CONTRACTOR SHALL BE AT THE CONTRACTOR'S EXPENSE.
6. THE CONTRACTOR SHALL PRUNE ALL VEGETATION, AS NECESSARY FOR EQUIPMENT CLEARANCES AWAY AND UP FROM THE STREET AND SIDEWALK. AS WELL AS ANY ROOT PRUNING AS DETERMINED BY THE ENGINEER. THE CONTRACTOR SHALL PROTECT ALL EXISTING LANDSCAPING THAT IS TO REMAIN. DAMAGE TO TREES AND SHRUBS IS THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR. COST OF TREE PRUNING IS INCIDENTAL.
7. CONTRACTOR SHALL NOTIFY THE CITY OF SHERWOOD 48 HOURS IN ADVANCE OF STARTING CONSTRUCTION AND 24 HOURS BEFORE RESUMING WORK AFTER SHUTDOWNS, EXCEPT FOR NORMAL RESUMPTION OF WORK FOLLOWING SATURDAYS, SUNDAYS, OR HOLIDAYS.
8. CONTRACTOR SHALL REMOVE AND DISPOSE OF TREES, STUMPS, BRUSH, ROOTS, EXCESS TOPSOIL, AND OTHER EXCESS MATERIAL OFF SITE. MATERIALS SHALL BE DISPOSED OF IN SUCH A MANNER AS TO MEET ALL APPLICABLE REGULATIONS. DISPOSAL LOCATION INFORMATION TO BE PROVIDED TO CITY PRIOR TO BEGINNING ANY WORK.
9. CONSTRUCTION VEHICLES SHALL PARK AT A LOCATION APPROVED BY THE INSPECTOR OR AT A LOCATION(S) INDICATED ON AN APPROVED PLAN. HOURS OF CONSTRUCTION SHALL BE AS SPECIFIED IN THE PLANS - UNLESS OTHERWISE APPROVED BY THE INSPECTOR. CONSTRUCTION IS PROHIBITED ON SATURDAY AND SUNDAY UNLESS WRITTEN APPROVAL IS OBTAINED FROM THE PUBLIC WORKS DIRECTOR AND CITY MANAGER. CONSTRUCTION ACTIVITIES INCLUDE ALL FIELD MAINTENANCE OF EQUIPMENT, REFUELING, AND PICK UP AND DELIVERY OF EQUIPMENT AS WELL AS THE ACTUAL CONSTRUCTION ACTIVITY.
10. AT THE END OF EACH WORK DAY, THE CONTRACTOR SHALL CLEAN UP THE PROJECT AREA AND LEAVE IT IN A NEAT AND SECURED MANNER. UPON COMPLETION, THE CONTRACTOR SHALL LEAVE THE PROJECT AREA FREE OF DEBRIS AND UNUSED MATERIAL.
11. THE CONTRACTOR SHALL KEEP AN APPROVED SET OF PLANS ON THE PROJECT SITE AT ALL TIMES WITH ALL KNOWN CHANGES REDLINED ON THE WORKING PLAN SET FOR THE SOLE PURPOSE OF RECORDING AS BUILT INFORMATION OF IMPROVEMENTS AND LOCATION AND DEPTH OF ANY EXISTING UTILITIES ENCOUNTERED.
12. ANY ALTERATIONS OR VARIATIONS FROM THESE PLANS EXCEPT MINOR FIELD ADJUSTMENTS NEEDED TO MEET EXISTING FIELD CONDITIONS, SHALL BE APPROVED BY THE ENGINEER AND APPLICABLE REGULATORY AGENCY REPRESENTATIVE. CONTRACTOR SHALL KEEP RECORD OF ALL CHANGES AND NOTE ON AS BUILT PLANS. CONTRACTOR SHALL SUBMIT ACCURATE AND COMPLETE "AS-BUILT" INFORMATION TO THE ENGINEER UPON COMPLETION OF CONSTRUCTION.
13. THE CONTRACTOR SHALL PERFORM ALL WORK NECESSARY TO COMPLETE THIS PROJECT IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS INCLUDING SUCH INCIDENTALS AS MAY BE NECESSARY TO MEET THE INTENT OF THE PROJECT CONTRACT DOCUMENTS, APPLICABLE AGENCY REQUIREMENTS AND OTHER WORK AS NECESSARY TO PROVIDE A COMPLETE PROJECT.
14. CONTRACTOR SHALL PROVIDE EFFECTIVE EROSION PROTECTION TO INCLUDE, BUT NOT BE LIMITED TO, GRADING, DITCHING, STRAW WATTLES, TRIANGULAR SILT DAMS, SILT FENCING, AND SEDIMENT BARRIERS TO MINIMIZE EROSION AND IMPACT TO ADJACENT PROPERTY. SEE EROSION AND SEDIMENT CONTROL NOTES AND PLANS.
15. THE CONTRACTOR SHALL MAINTAIN AND COORDINATE ACCESS TO ALL AFFECTED PROPERTIES. THE CONTRACTOR SHALL NOTIFY AFFECTED RESIDENTS A MINIMUM OF 48 HOURS PRIOR TO ANY DRIVEWAY CLOSURES AND ASSIST PROPERTY OWNER WITH ALTERNATIVE PARKING AND ACCESS. PEDESTRIAN ACCESS TO ENTRANCES SHALL BE MAINTAINED AT ALL TIMES. THE CONTRACTOR WILL PROVIDE RAMPS OR OTHER APPROVED METHODS FOR MAINTAINING ACCESS TO ENTRANCES. RAMPS SHALL BE ADA COMPLIANT, APPROVED BY THE ENGINEER, AND INCIDENTAL TO THE CONTRACT. RESIDENTIAL DRIVEWAYS MAY ONLY BE CLOSED FOR A MAXIMUM OF ONE DAY (7:00 AM TO 6:00 PM).
16. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE AND VERIFY ALL EXISTING CONDITIONS BEFORE THE START OF WORK. THE CONTRACTOR SHALL TAKE ALL NECESSARY FIELD MEASUREMENTS AND OTHERWISE VERIFY ALL DIMENSIONS AND EXISTING CONSTRUCTION CONDITIONS INDICATED AND/OR SHOWN ON THE PLANS. SHOULD ANY ERROR OR INCONSISTENCY EXIST, THE CONTRACTOR SHALL NOT PROCEED WITH THE WORK AFFECTED UNTIL REPORTED TO THE PROJECT ENGINEER FOR CLARIFICATION OR CORRECTION.
17. ANY INSPECTION BY THE CITY, COUNTY, STATE, FEDERAL AGENCY OR PROJECT ENGINEER SHALL NOT, IN ANY WAY, RELIEVE THE CONTRACTOR FROM ANY OBLIGATION TO PERFORM THE WORK IN COMPLIANCE WITH THE APPLICABLE CODES, REGULATIONS, CITY STANDARDS AND PROJECT CONTRACT DOCUMENTS.
18. THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN CONFORMING TO THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR APPROVAL PRIOR TO THE START OF CONSTRUCTION AND ACCORDING TO PROJECT SPECIFICATIONS. TRAFFIC CONTROL PLAN SHALL MATCH APPROVED PHASING/SEQUENCING PLAN AND SHALL BE SUBJECT TO THE APPROVAL BY THE CITY, WASHINGTON COUNTY AND/OR ODOT AS APPLICABLE.
19. THE CONTRACTOR SHALL PROVIDE TO THE CITY PROJECT MANAGER AND INSPECTOR A 24 HOUR CONTACT PERSON AND CELL PHONE NUMBER.
20. NO TRENCHES OR PITS WILL BE ALLOWED TO REMAIN OPEN OVERNIGHT. ALL TRENCHES AND PITS SHALL BE COVERED WITH STEEL PLATES OR FILLED IN AT NIGHT.
21. PROPERTY LINES SHOWN ON ALL PLAN SHEETS ARE FOR GENERAL DELINEATION ONLY AND ARE, BY NO MEANS, MEANT TO REPRESENT THE ACTUAL BOUNDARIES.

22. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLYING WITH ALL CONSTRUCTION SAFETY, HEALTH AND OTHER RULES AND REGULATIONS FROM OSHA, DEQ, STATE, AND LOCAL REGULATING AGENCIES FOR SAFETY AND INSTALLATION OF THE WORK INCLUDING BUT NOT LIMITED TO SHORING, BRACING, ERECTION/INSTALLATION, FALL PROTECTION, GUARDRAILS, ETC.
23. CONTRACTOR SHALL PROTECT AND MAINTAIN ALL EXISTING STRUCTURES AND UTILITIES NOT SHOWN TO BE REMOVED. CONTRACTOR SHALL REPLACE OR REPAIR ANY EXISTING STRUCTURES (SIDEWALKS, DRIVEWAYS, CURB, FENCE, STREET TREES, ETC.) DAMAGED DURING CONSTRUCTION, IN ACCORDANCE WITH CITY STANDARDS.
24. ALL LINework SHOWN ON THE PLAN IS FROM A 2004 AERIAL MAP AND FROM VISUAL OBSERVATION AND IS THEREFORE NOT GUARANTEED FOR ACCURACY AND SHOULD NOT BE USED FOR OTHER PURPOSES.
25. EQUIPMENT PARKED ON SITE SHALL BE PARKED AWAY FROM AN INTERSECTION AT A LOCATION APPROVED BY THE INSPECTOR.
26. WATER FOR CONSTRUCTION MAY BE OBTAINED FROM CITY FIRE HYDRANTS. INSTALL FIRE HYDRANT METER PRIOR TO DRAWING WATER. FIRE HYDRANT METER TO BE OBTAINED FROM CITY OF SHERWOOD WATER DEPARTMENT. COORDINATE WITH INSPECTOR. WATER FOR CONSTRUCTION IS INCIDENTAL.
27. ANY EXISTING SURFACE TO REMAIN (CONCRETE CURB AND GUTTER, CONCRETE SIDEWALK, ASPHALT, ETC.) THAT IS DAMAGED BY THE CONTRACTOR SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE.
28. ALL JOINTS BETWEEN EXISTING ASPHALT AND NEW ASPHALT SHALL BE SEALED WITH HOT RUBBERIZED ASPHALT SEALER.

## STORM SEWER NOTES

1. STORM SEWER PIPE SHALL BE AS NOTED ON PLANS AND CONFORM TO THE REQUIREMENTS BELOW.
2. STORM SEWER MATERIALS AND TESTING SHALL MEET CLEAN WATER SERVICES (CWS) DESIGN AND CONSTRUCTION SPECIFICATIONS AND THE CITY OF SHERWOOD'S ENGINEERING DESIGN MANUAL.
3. ALL STORM SERVICE STUB OUTS SHALL EXTEND A MINIMUM OF THREE FEET (3') BEYOND EASEMENT OR RIGHT-OF-WAY LINE AND BE MARKED WITH A PRESSURE TREATED 2" X 4". THE TOP 12" SHALL BE PAINTED WHITE AND LABELED "ST" FOR FUTURE LOCATION. THE 2" X 4" SHALL BE MARKED WITH DETECTABLE UNDERGROUND MAGNETIC TAPE GREEN IN COLOR AND BE MARKED "CAUTION STORM DRAIN BURIED BELOW". THE MAGNETIC TAPE SHALL BE PLACED FROM THE MAIN PIPELINE TO THE END OF THE SIDE LATERAL WITH 18" OF SEPARATION BETWEEN THE TAPE AND PIPE. THE SERVICE LATERAL SHALL ALSO HAVE TRACER WIRE INSTALLED. THE TRACER WIRE SHALL BE 12-GAUGE STRANDED COPPER WIRE WITH WHITE HMW-PE INSULATION. TRACER WIRE SHALL RUN TO THE TOP OF THE 2" X 4" MARKER. STORM SERVICE STUB OUTS TO BE A MINIMUM OF 4-INCH DIAMETER PIPE AND HAVE A MINIMUM SLOPE OF 2%.
4. ALL STORM SEWER LINES SHALL BE VIDEO INSPECTED BY THE CITY--COORDINATE.
5. ALL NON-C900 STORM SEWER LINES SHALL HAVE A MANDREL PASSED THROUGH TO CHECK DEFLECTION. THIS WILL BE WITNESSED BY THE CITY. MINIMUM 48 HOUR NOTICE IS REQUIRED.

## LEGEND

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| <ul style="list-style-type: none"> <li>— = EXISTING CURB AND GUTTER</li> <li>⊗ WV = EXISTING WATER VALVE</li> <li>—W— = EXISTING WATER LINE</li> <li>—ST— = EXISTING STORM LINE</li> <li>—SAN— = EXISTING STORM LINE</li> <li>—G— = EXISTING GAS LINE</li> <li>—T— = EXISTING TELECOMMUNICATION LINE</li> <li>— — — = CENTER LINE</li> <li>○ = EXISTING MANHOLE</li> <li>▤ = EXISTING CATCH BASIN</li> <li>▬ = PROPOSED CURB AND GUTTER</li> <li>⊗ = PROPOSED MANHOLE</li> <li>▤ = PROPOSED CATCH BASIN</li> </ul> | <ul style="list-style-type: none"> <li>EX = EXISTING</li> <li>S/W = SIDEWALK</li> <li>R/W = RIGHT-OF-WAY</li> <li>D/W = DRIVEWAY</li> <li>R = RADIUS</li> <li>CL = CENTER LINE</li> <li>TOC = TOP OF CURB</li> <li>FG = FINISH GRADE</li> <li>G = GUTTER</li> <li>RT = RIGHT</li> <li>LT = LEFT</li> </ul> |
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## WORK HOURS/TRAFFIC CONTROL NOTES

1. WORK HOURS ARE FROM 8:00AM TO 6:00PM MONDAY THROUGH FRIDAY.
2. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING DRIVEWAY ACCESS TO RESIDENCES, EXCEPT WHEN OTHERWISE APPROVED BY THE CITY AND COORDINATED WITH THE HOME OWNER.
3. THE CONTRACTOR MAY CLOSE SW LOWELL LANE TO TRAFFIC FOR TRENCH WORK TO INSTALL STORM SEWER AND IRRIGATION LINE WITHIN SW LOWELL LANE. SW LOWELL LANE SHALL BE OPEN AT THE END OF EACH WORK DAY. CONTRACTOR RESPONSIBLE FOR ALL BARRICADES, SIGNAGE, DETOUR SIGNAGE AND ANY OTHER TRAFFIC CONTROL MEASURES NECESSARY FOR THE ROAD CLOSURE. CONTRACTOR TO NOTIFY RESIDENTS ON SW LOWELL LANE 48 HOURS PRIOR TO STREET CLOSURE.
4. THE CONTRACTOR IS RESPONSIBLE TO INSTALL PEDESTRIAN SIDEWALK CLOSURE AND DETOUR SIGNAGE AND BARRICADES IN ORDER TO CLOSE THE SIDEWALK ON THE SOUTH SIDE OF SW LOWELL LANE.

## STAGING NOTES

CONSTRUCTION STAGING WILL OCCUR ON-SITE AT LOCATION APPROVED BY HOME OWNER. TRUCKS TO BE PARKED AT A LOCATION APPROVED BY THE CITY.

GENERAL NOTES

MICHAEL COURT STORM REHABILITATION

LOCATED IN SECTION 32DD, T2S, R1W, W.M. IN THE CITY OF SHERWOOD, WASHINGTON COUNTY, STATE OF OREGON

CITY OF SHERWOOD  
ENGINEERING DEPARTMENT  
SHERWOOD, OREGON 97140

PHONE: (503) 925-2309  
FAX: (503) 925-0629  
E-MAIL: [engineering@ci.sherwood.or.us](mailto:engineering@ci.sherwood.or.us)



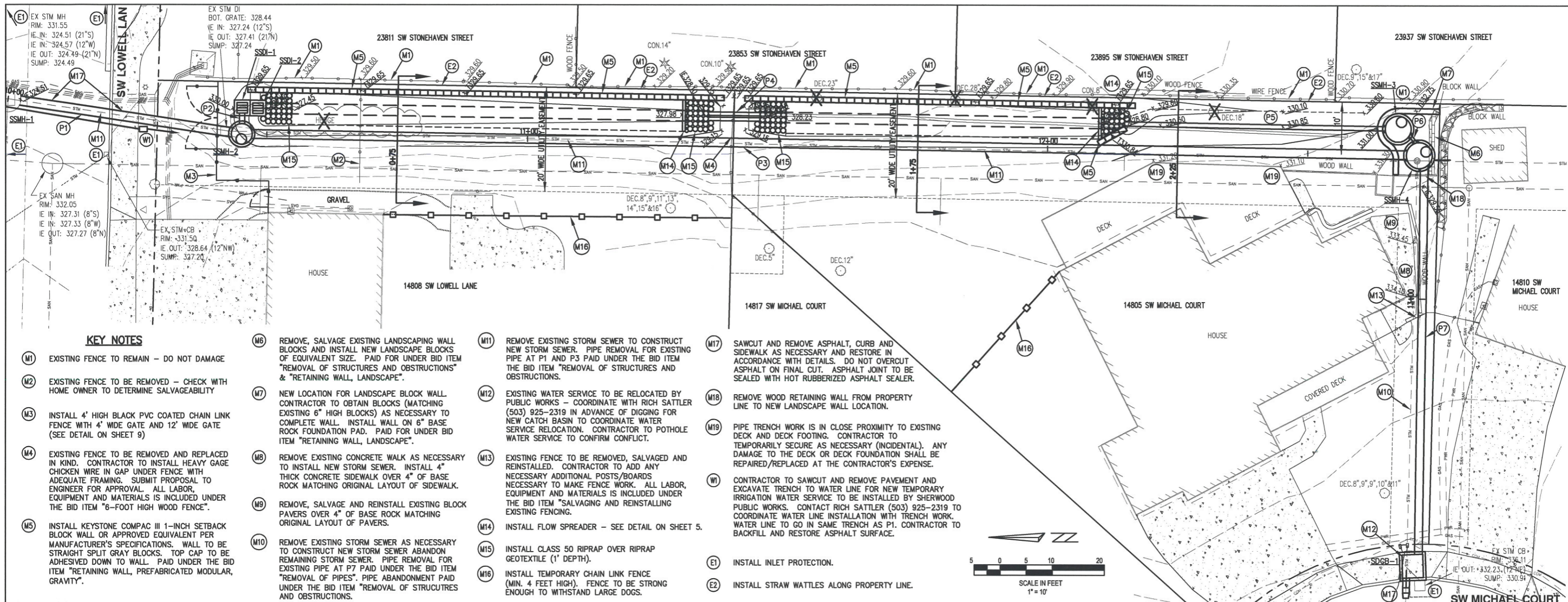
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| DRAWN BY:    | CCC          | FULL SIZE SCALE:           | AS NOTED |
| DATE:        | JANUARY 2020 | MICHAEL COURT STORM_SHEETS |          |

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| REVISIONS |  |
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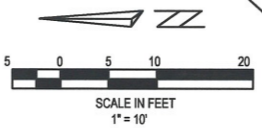
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NOTE: STATE OF OREGON MINIMUM PREVAILING WAGE REQUIREMENTS WILL APPLY TO ALL WORK PERFORMED UNDER THIS PROJECT.



**KEY NOTES**

- (M1) EXISTING FENCE TO REMAIN - DO NOT DAMAGE
- (M2) EXISTING FENCE TO BE REMOVED - CHECK WITH HOME OWNER TO DETERMINE SALVAGEABILITY
- (M3) INSTALL 4' HIGH BLACK PVC COATED CHAIN LINK FENCE WITH 4' WIDE GATE AND 12' WIDE GATE (SEE DETAIL ON SHEET 9)
- (M4) EXISTING FENCE TO BE REMOVED AND REPLACED IN KIND. CONTRACTOR TO INSTALL HEAVY GAGE CHICKEN WIRE IN GAP UNDER FENCE WITH ADEQUATE FRAMING. SUBMIT PROPOSAL TO ENGINEER FOR APPROVAL. ALL LABOR, EQUIPMENT AND MATERIALS IS INCLUDED UNDER THE BID ITEM "6-FOOT HIGH WOOD FENCE".
- (M5) INSTALL KEYSTONE COMPAC III 1-INCH SETBACK BLOCK WALL OR APPROVED EQUIVALENT PER MANUFACTURER'S SPECIFICATIONS. WALL TO BE STRAIGHT SPLIT GRAY BLOCKS. TOP CAP TO BE ADHESIVED DOWN TO WALL. PAID UNDER THE BID ITEM "RETAINING WALL, PREFABRICATED MODULAR, GRAVITY".
- (M6) REMOVE, SALVAGE EXISTING LANDSCAPING WALL BLOCKS AND INSTALL NEW LANDSCAPE BLOCKS OF EQUIVALENT SIZE. PAID FOR UNDER BID ITEM "REMOVAL OF STRUCTURES AND OBSTRUCTIONS" & "RETAINING WALL, LANDSCAPE".
- (M7) NEW LOCATION FOR LANDSCAPE BLOCK WALL. CONTRACTOR TO OBTAIN BLOCKS (MATCHING EXISTING 6" HIGH BLOCKS) AS NECESSARY TO COMPLETE WALL. INSTALL WALL ON 6" BASE ROCK FOUNDATION PAD. PAID FOR UNDER BID ITEM "RETAINING WALL, LANDSCAPE".
- (M8) REMOVE EXISTING CONCRETE WALK AS NECESSARY TO INSTALL NEW STORM SEWER. INSTALL 4" THICK CONCRETE SIDEWALK OVER 4" OF BASE ROCK MATCHING ORIGINAL LAYOUT OF SIDEWALK.
- (M9) REMOVE, SALVAGE AND REINSTALL EXISTING BLOCK PAVERS OVER 4" OF BASE ROCK MATCHING ORIGINAL LAYOUT OF PAVERS.
- (M10) REMOVE EXISTING STORM SEWER AS NECESSARY TO CONSTRUCT NEW STORM SEWER ABANDON REMAINING STORM SEWER. PIPE REMOVAL FOR EXISTING PIPE AT P7 PAID UNDER THE BID ITEM "REMOVAL OF PIPES". PIPE ABANDONMENT PAID UNDER THE BID ITEM "REMOVAL OF STRUCTURES AND OBSTRUCTIONS".
- (M11) REMOVE EXISTING STORM SEWER TO CONSTRUCT NEW STORM SEWER. PIPE REMOVAL FOR EXISTING PIPE AT P1 AND P3 PAID UNDER THE BID ITEM "REMOVAL OF STRUCTURES AND OBSTRUCTIONS".
- (M12) EXISTING WATER SERVICE TO BE RELOCATED BY PUBLIC WORKS - COORDINATE WITH RICH SATTLER (503) 925-2319 IN ADVANCE OF DIGGING FOR NEW CATCH BASIN TO COORDINATE WATER SERVICE RELOCATION. CONTRACTOR TO POTHOLE WATER SERVICE TO CONFIRM CONFLICT.
- (M13) EXISTING FENCE TO BE REMOVED, SALVAGED AND REINSTALLED. CONTRACTOR TO ADD ANY NECESSARY ADDITIONAL POSTS/BOARDS NECESSARY TO MAKE FENCE WORK. ALL LABOR, EQUIPMENT AND MATERIALS IS INCLUDED UNDER THE BID ITEM "SALVAGING AND REINSTALLING EXISTING FENCING".
- (M14) INSTALL FLOW SPREADER - SEE DETAIL ON SHEET 5.
- (M15) INSTALL CLASS 50 RIPRAP OVER RIPRAP GEOTEXTILE (1' DEPTH).
- (M16) INSTALL TEMPORARY CHAIN LINK FENCE (MIN. 4 FEET HIGH). FENCE TO BE STRONG ENOUGH TO WITHSTAND LARGE DOGS.
- (M17) SAWCUT AND REMOVE ASPHALT, CURB AND SIDEWALK AS NECESSARY AND RESTORE IN ACCORDANCE WITH DETAILS. DO NOT OVERCUT ASPHALT ON FINAL CUT. ASPHALT JOINT TO BE SEALED WITH HOT RUBBERIZED ASPHALT SEALER.
- (M18) REMOVE WOOD RETAINING WALL FROM PROPERTY LINE TO NEW LANDSCAPE WALL LOCATION.
- (M19) PIPE TRENCH WORK IS IN CLOSE PROXIMITY TO EXISTING DECK AND DECK FOOTING. CONTRACTOR TO TEMPORARILY SECURE AS NECESSARY (INCIDENTAL). ANY DAMAGE TO THE DECK OR DECK FOUNDATION SHALL BE REPAIRED/REPLACED AT THE CONTRACTOR'S EXPENSE.
- (W1) CONTRACTOR TO SAWCUT AND REMOVE PAVEMENT AND EXCAVATE TRENCH TO WATER LINE FOR NEW TEMPORARY IRRIGATION WATER SERVICE TO BE INSTALLED BY SHERWOOD PUBLIC WORKS. CONTACT RICH SATTLER (503) 925-2319 TO COORDINATE WATER LINE INSTALLATION WITH TRENCH WORK. WATER LINE TO GO IN SAME TRENCH AS P1. CONTRACTOR TO BACKFILL AND RESTORE ASPHALT SURFACE.
- (E1) INSTALL INLET PROTECTION.
- (E2) INSTALL STRAW WATTLES ALONG PROPERTY LINE.

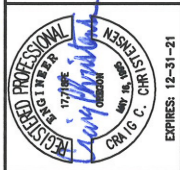


**PLAN AND PROFILE**

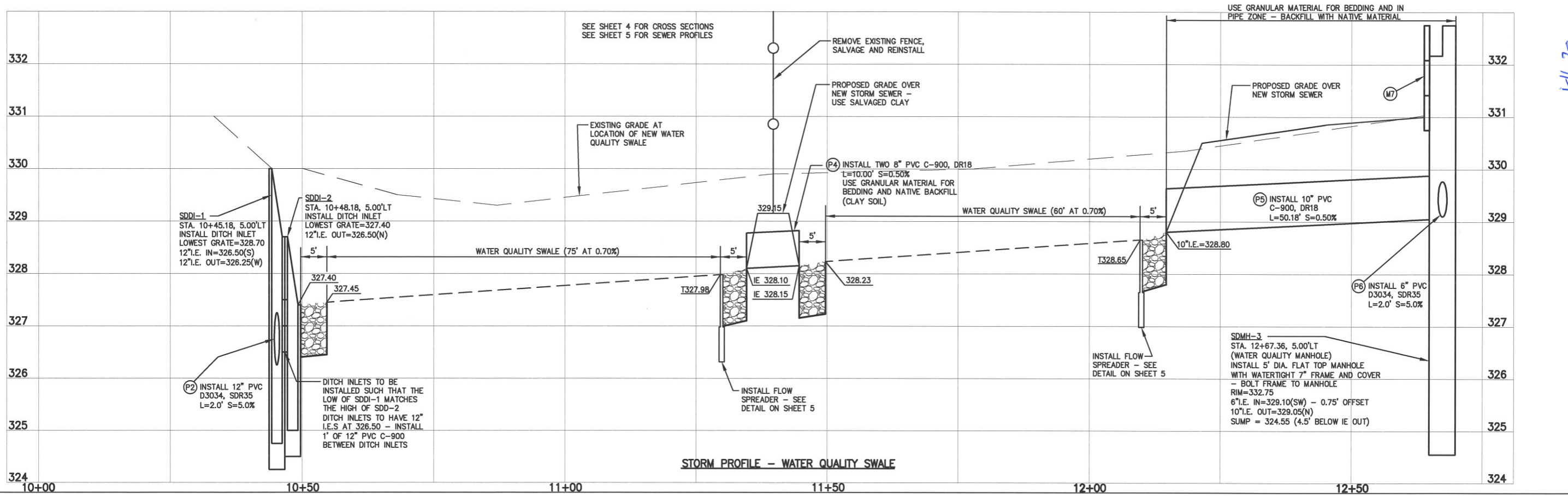
**MICHAEL COURT STORM REHABILITATION**

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

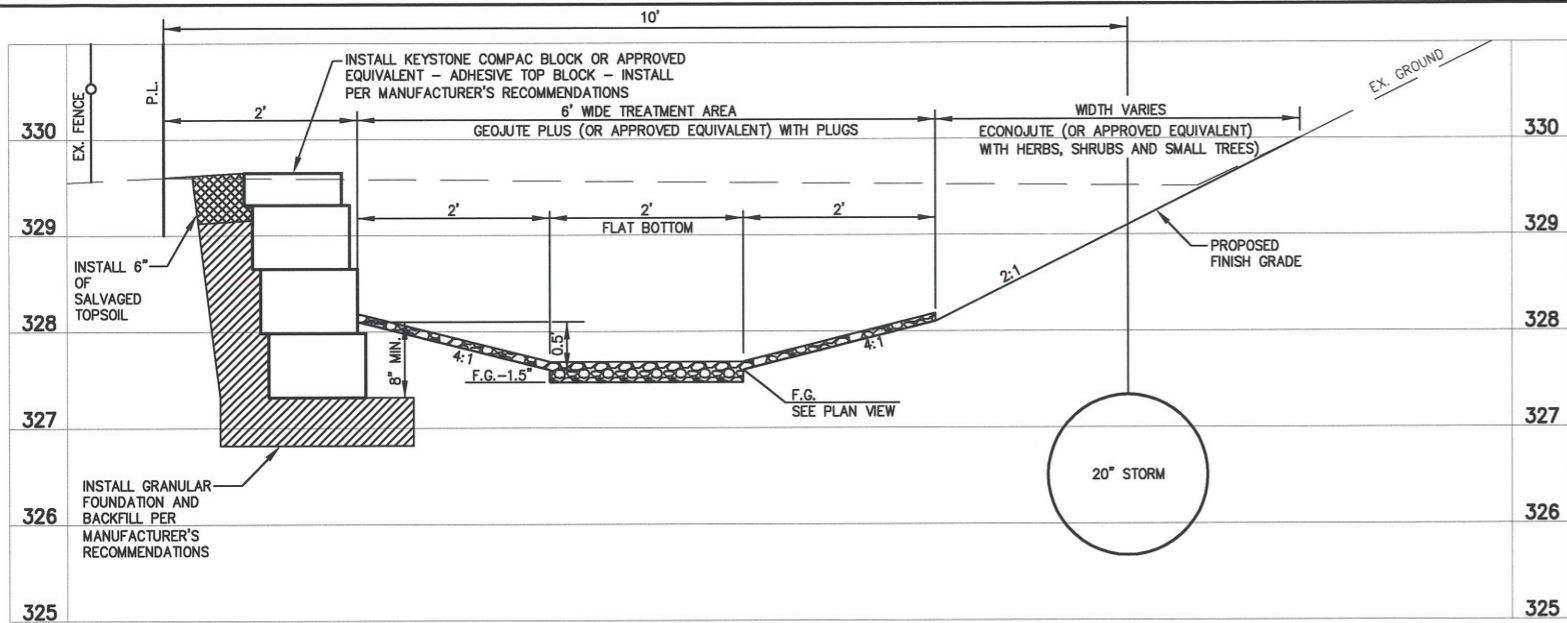
**CITY OF SHERWOOD**  
ENGINEERING DEPARTMENT  
20450 SW PINE STREET  
SHERWOOD, OREGON 97140  
PHONE: (503) 925-2329  
FAX: (503) 925-2629  
E-MAIL: engineering@sherwoodoregon.gov



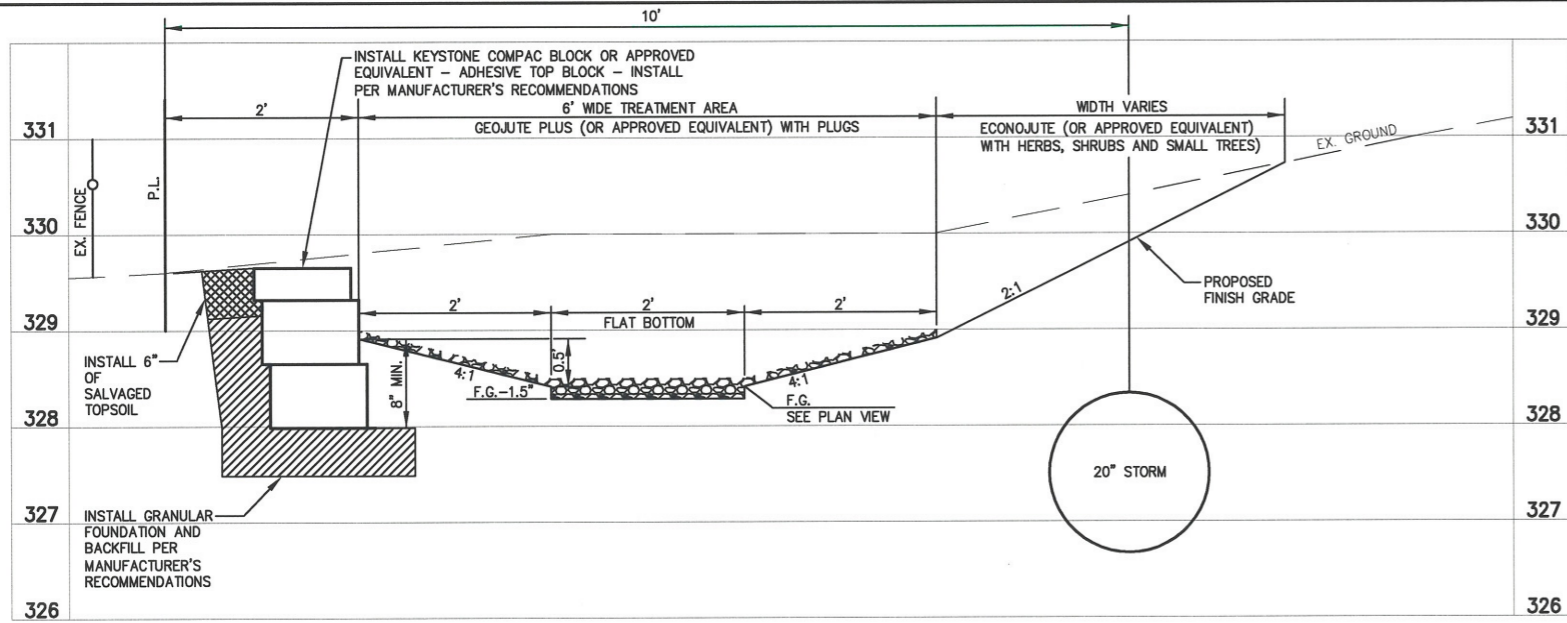
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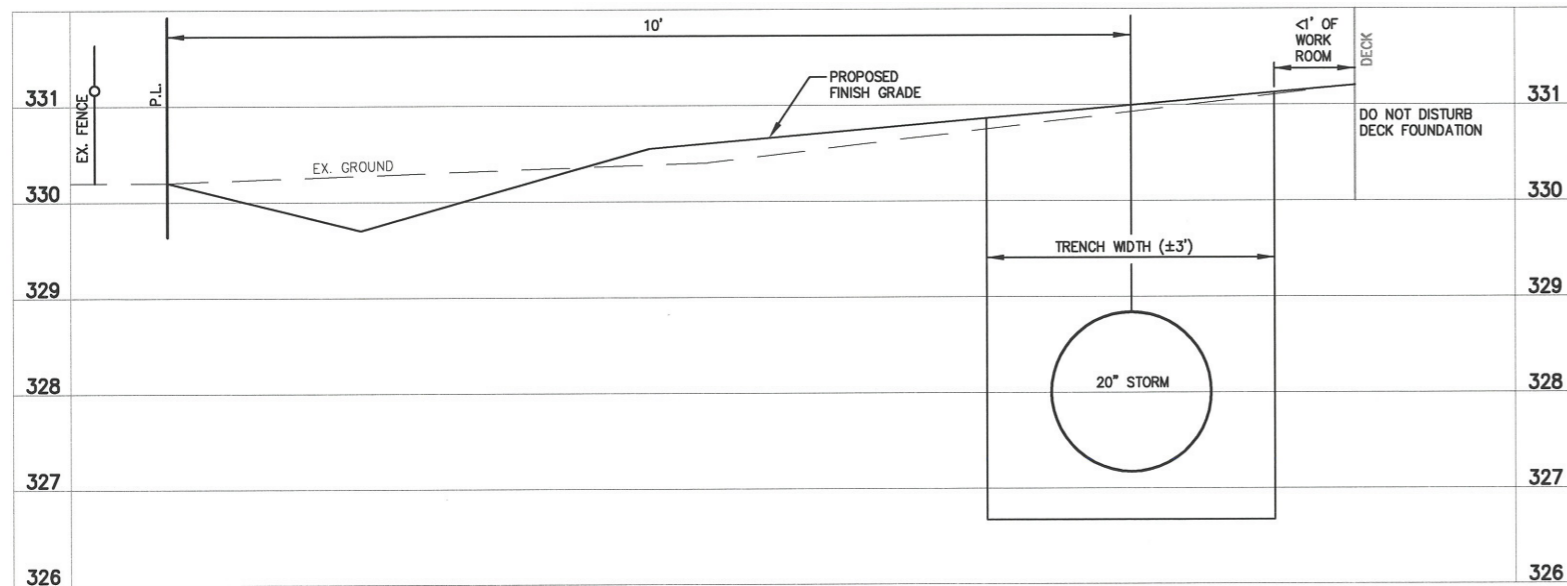
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| DRAWN BY:    | CCC | FULL SIZE SCALE: | 1"=10' | MICHAEL COURT STORM SHEETS | REVISIONS     |
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SECTION 0+75



SECTION 1+75

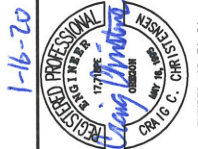


SECTION 2+25

SECTIONS

MICHAEL COURT STORM REHABILITATION  
 LOCATED IN SECTIONS 3240 AND 3200, T2S, R1W, W.M.  
 IN THE CITY OF SHERWOOD,  
 WASHINGTON COUNTY, STATE OF OREGON

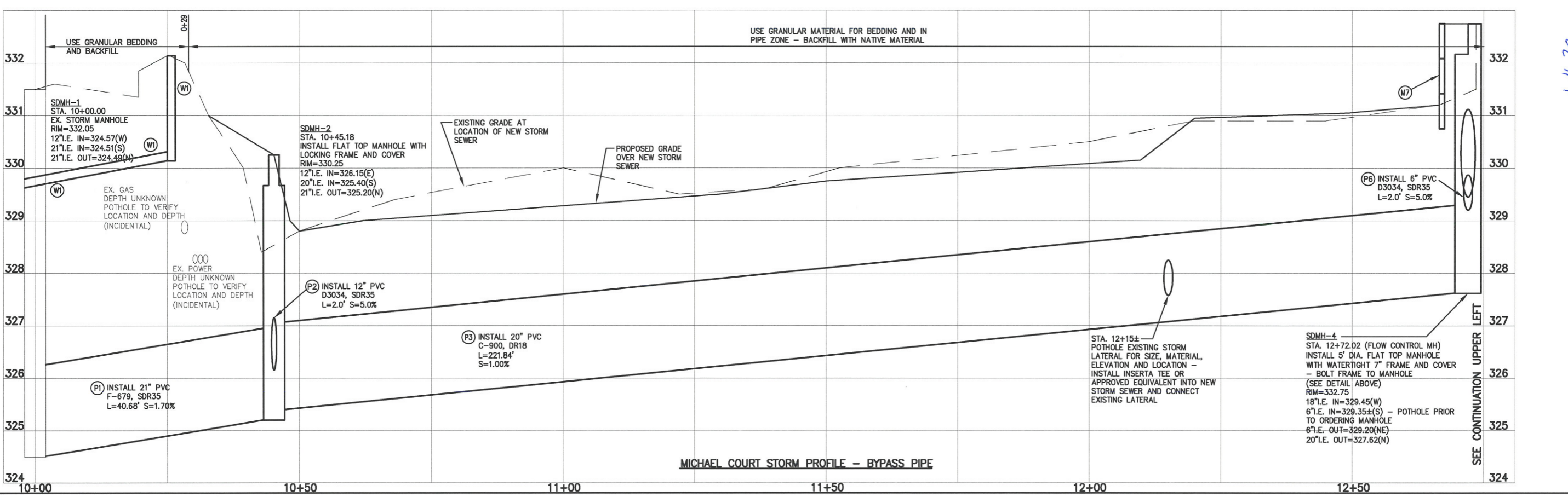
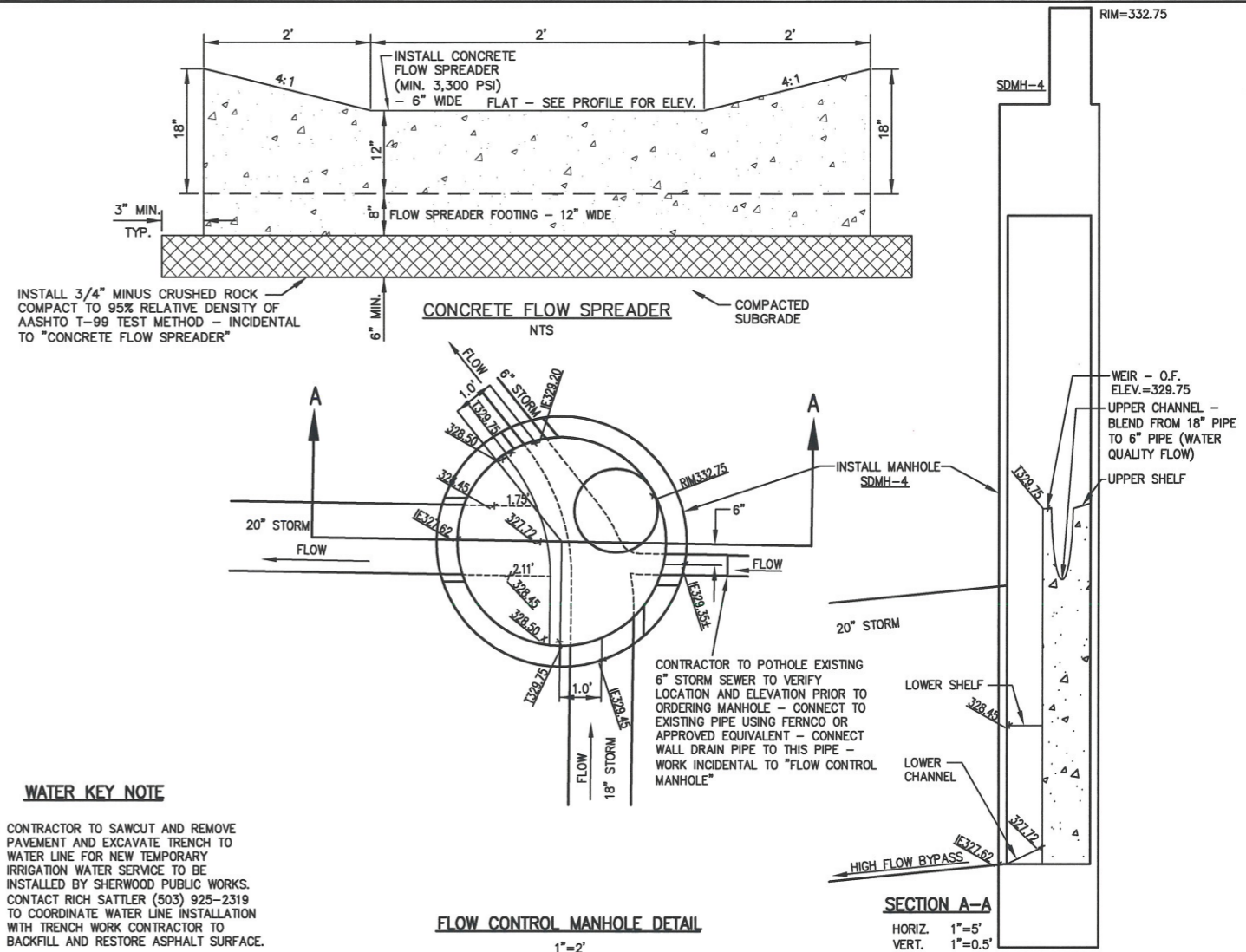
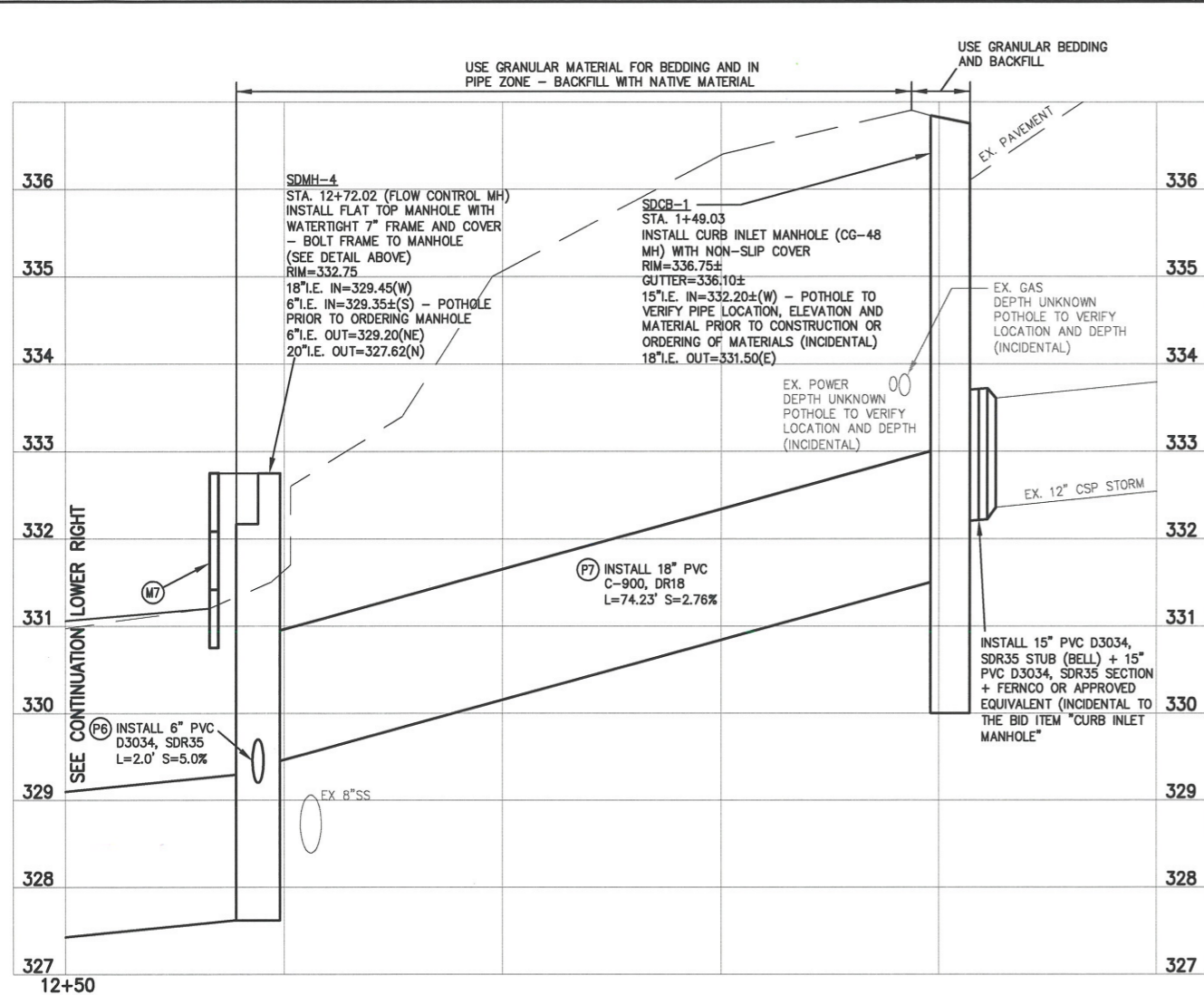
CITY OF SHERWOOD  
 ENGINEERING DEPARTMENT  
 22560 SW PINE STREET  
 SHERWOOD, OREGON 97140  
 PHONE: (503) 825-2309  
 FAX: (503) 825-0829  
 E-MAIL: engineering@sherwoodoregon.gov



|                  |               |
|------------------|---------------|
| DESIGNED BY:     | CCC           |
| DRAWN BY:        | CCC           |
| CHECKED BY:      | RS            |
| FULL SIZE SCALE: | 1"=10'        |
| DATE:            | JANUARY, 2020 |

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| JOB NO.   |    |
| SHEET NO. | 4  |
| OF        | 11 |



**PROFILES AND MANHOLE DETAIL**

**MICHAEL COURT STORM REHABILITATION**

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

**CITY OF SHERWOOD**  
ENGINEERING DEPARTMENT  
SHERWOOD, OREGON 97140  
PHONE: (503) 925-2309  
FAX: (503) 925-2305  
E-MAIL: [engineering@sherwoodoregon.gov](mailto:engineering@sherwoodoregon.gov)

1-16-20

REGISTERED PROFESSIONAL ENGINEER  
17700  
00000  
CIVIL  
EXPIRES: 12-31-21

|                  |               |
|------------------|---------------|
| DESIGNED BY:     | CCC           |
| DRAWN BY:        | CCC           |
| CHECKED BY:      | RS            |
| FULL SIZE SCALE: | 1"=10'        |
| DATE:            | JANUARY, 2020 |

MICHAEL COURT STORM SHEETS

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| JOB NO.   |    |
| SHEET NO. | 5  |
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**REVISIONS**

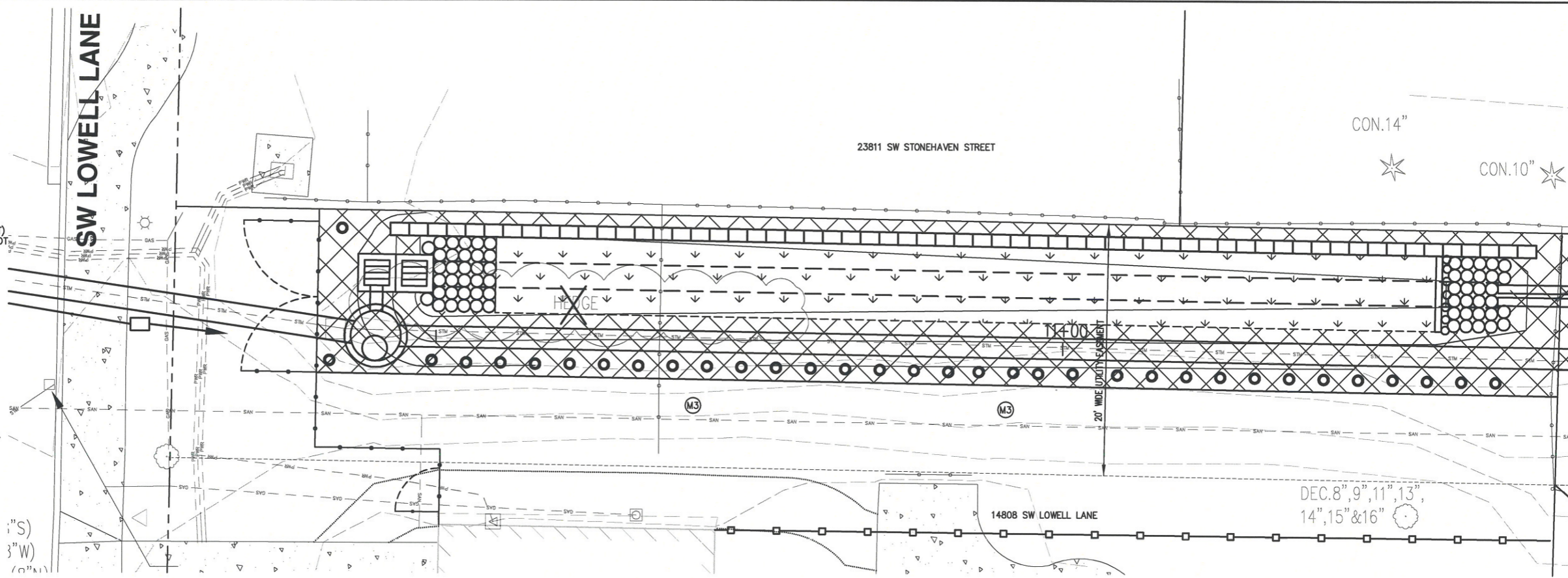
**LANDSCAPING LEGEND (664 SF)**

**TREATMENT AREA (450 SF)**

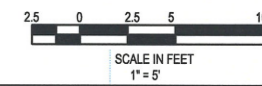
- INSTALL THE FOLLOWING:  
INSTALL GEOJUTE PLUS OR APPROVED EQUIVALENT  
1350 SLOUGH SEDGE PLUG (6" MIN. HEIGHT)  
1350 SPREADING RUSH PLUG (6" MIN. HEIGHT)  
PLANT EVENLY AT 6 PLUGS PER SQUARE FOOT

**OUTSIDE OF TREATMENT AREA (664 SF)**

- INSTALL COMPOST MULCH AND 133 VINCA MINOR (4" POT SIZE)
  - INSTALL ECO-JUTE OR APPROVED EQUIVALENT ON SLOPES OF 4:1 OR STEEPER.  
INSTALL 34 SHRUBS ALTERNATE BETWEEN 17 MOCK ORANGE (PHILADELPHUS LEWESI) 17 OCEANSPRAY (HOLODISCUS DISCOLOR) SHRUBS TO BE 1 GALLON IN SIZE  
INSTALL 18" BARK MULCH RING AROUND SHRUBS
  - (M3) RESTORE DISTURBED SLOPE AREAS WITH COMPOST MULCH AND VINCA MINOR
- TEMPORARY IRRIGATION AND PLANT ESTABLISHMENT TO BE PERFORM BY SHERWOOD PUBLIC WORKS.



**LANDSCAPING OF VEGETATIVE SWALE (NORTH SWALE) AT 14808 SW LOWELL LANE**



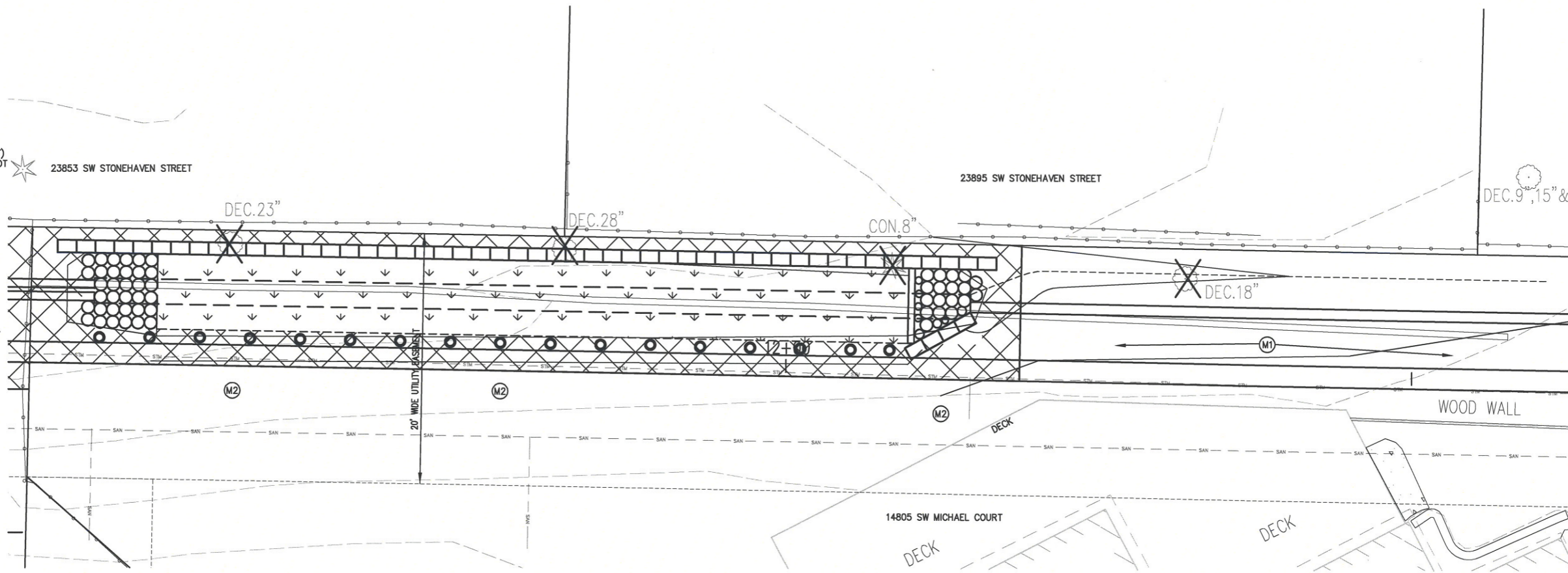
**LANDSCAPING LEGEND - SOUTH SWALE**

**TREATMENT AREA (360 SF)**

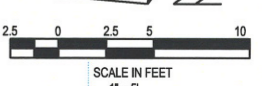
- INSTALL THE FOLLOWING:  
INSTALL GEOJUTE PLUS OR APPROVED EQUIVALENT  
1350 SLOUGH SEDGE PLUG (6" MIN. HEIGHT)  
1350 SPREADING RUSH PLUG (6" MIN. HEIGHT)  
PLANT EVENLY AT 6 PLUGS PER SQUARE FOOT

**OUTSIDE OF TREATMENT AREA (337 SF)**

- INSTALL COMPOST MULCH AND 67 VINCA MINOR (4" POT SIZE)
  - INSTALL ECO-JUTE OR APPROVED EQUIVALENT ON SLOPES OF 4:1 OR STEEPER.  
INSTALL 17 SHRUBS ALTERNATE BETWEEN 9 MOCK ORANGE (PHILADELPHUS LEWESI) 8 OCEANSPRAY (HOLODISCUS DISCOLOR) SHRUBS TO BE 1 GALLON IN SIZE  
INSTALL 18" BARK MULCH RING AROUND SHRUBS
  - (M1) INSTALL PERMEABLE WEED CONTROL GEOTEXTILE AND 2 TO 3 INCHES THICKNESS OF 1/4"-3/4" RIVER ROCK OR APPROVED EQUIVALENT.
  - (M2) INSTALL SEED AND MULCH.
- TEMPORARY IRRIGATION AND PLANT ESTABLISHMENT TO BE PERFORM BY SHERWOOD PUBLIC WORKS.



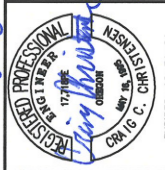
**LANDSCAPING OF VEGETATIVE SWALE (SOUTH SWALE) AT 14805 SW MICHAEL COURT**



MICHAEL COURT STORM REHABILITATION

LOCATED IN SECTION 32DD, T2S, R1W, W.M. IN THE CITY OF SHERWOOD, WASHINGTON COUNTY, STATE OF OREGON

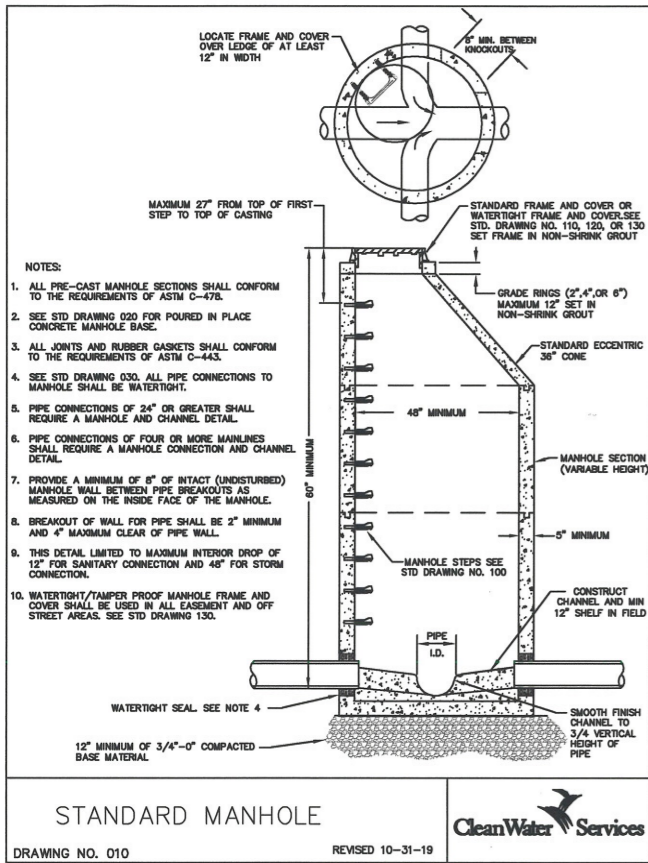
CITY OF SHERWOOD  
ENGINEERING DEPARTMENT  
22450 SW PINE STREET  
SHERWOOD, OREGON 97140  
PHONE: (503) 925-2309  
FAX: (503) 826-0620  
E-MAIL: engineering@sherwoodoregon.gov



1-16-20

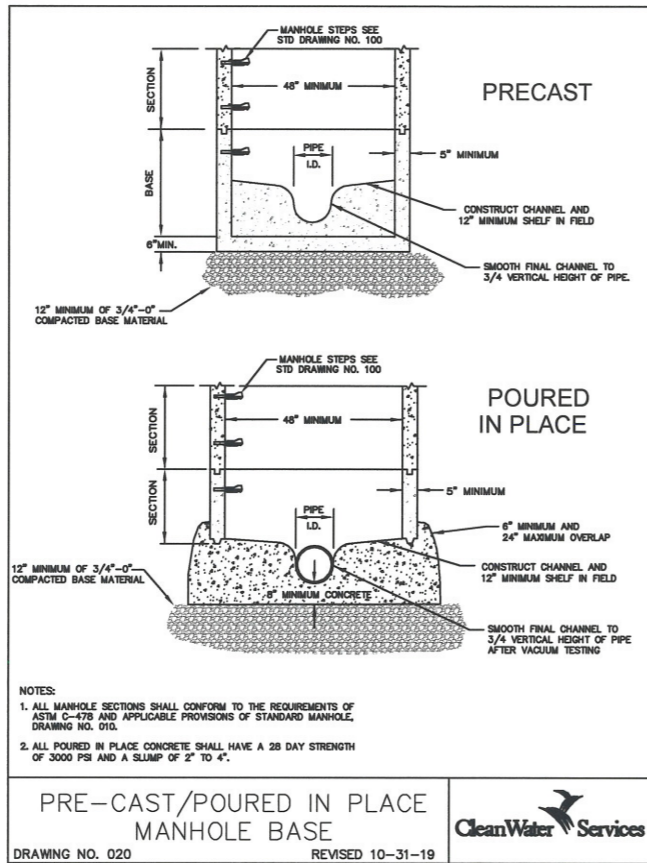
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|------------------|---------------|
| DESIGNED BY:     | CCC           |
| DRAWN BY:        | CCC           |
| CHECKED BY:      | RS            |
| FULL SIZE SCALE: | 1"=10'        |
| DATE:            | JANUARY, 2020 |

| REVISIONS |  |
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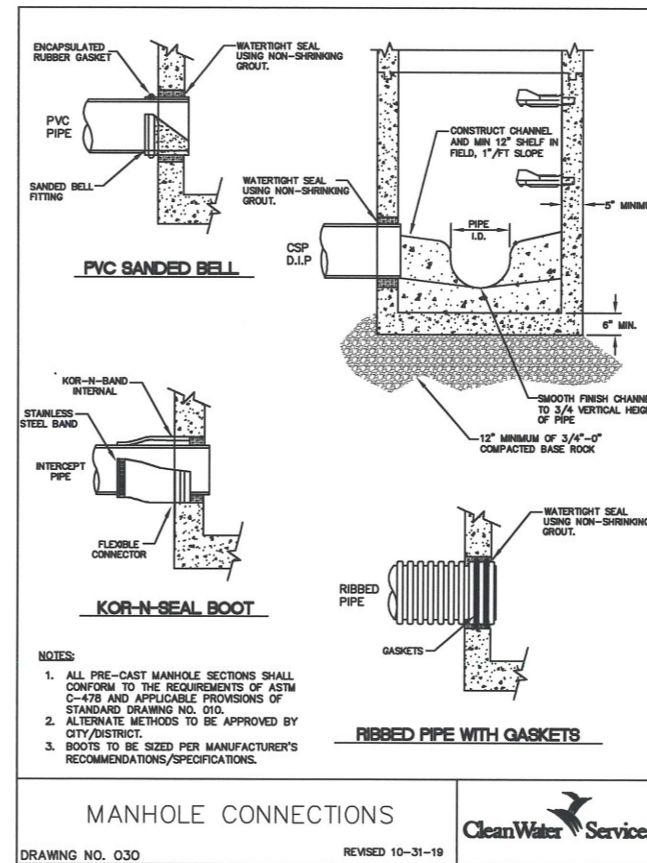
STANDARD MANHOLE

DRAWING NO. 010 REVISED 10-31-19



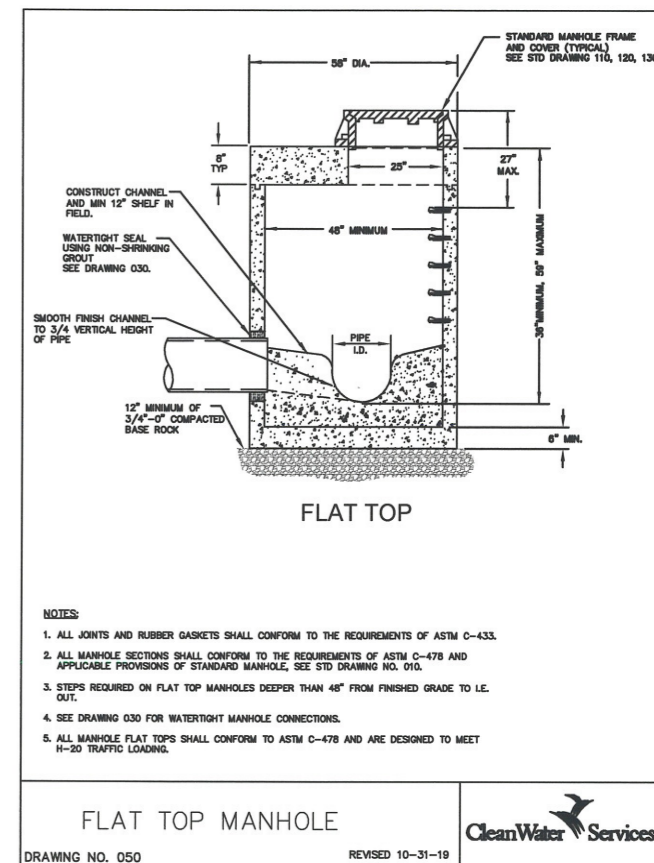
PRE-CAST/POURED IN PLACE MANHOLE BASE

DRAWING NO. 020 REVISED 10-31-19



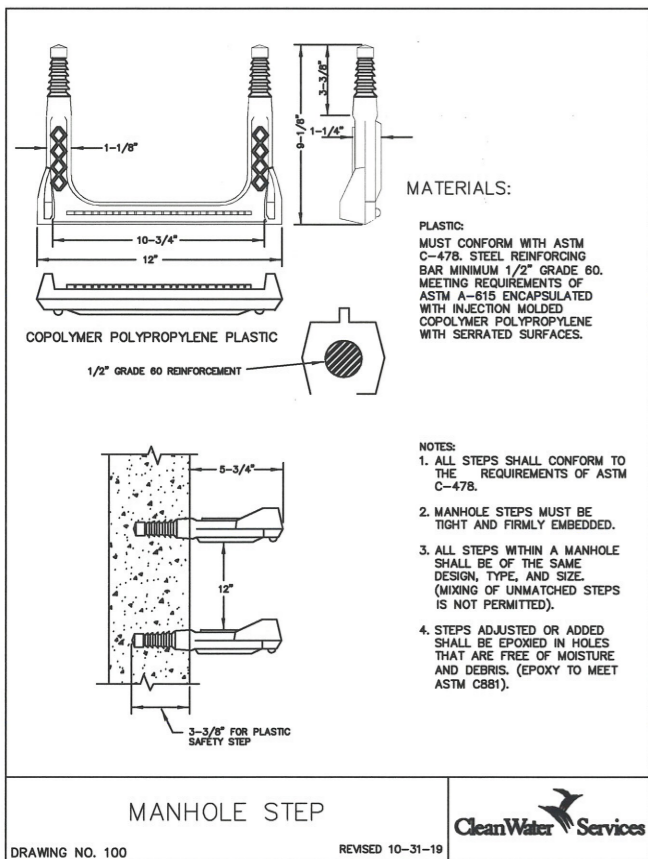
MANHOLE CONNECTIONS

DRAWING NO. 030 REVISED 10-31-19



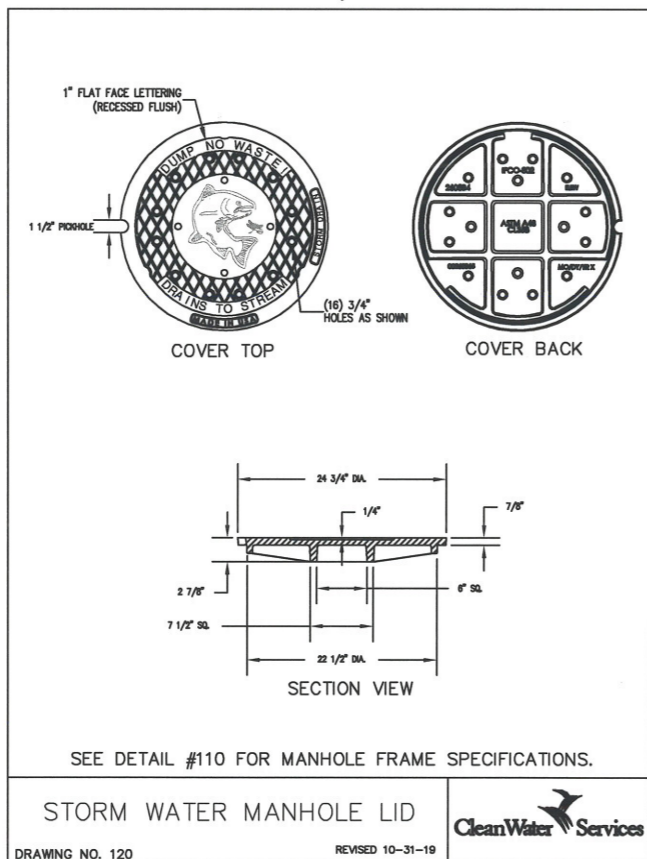
FLAT TOP MANHOLE

DRAWING NO. 050 REVISED 10-31-19



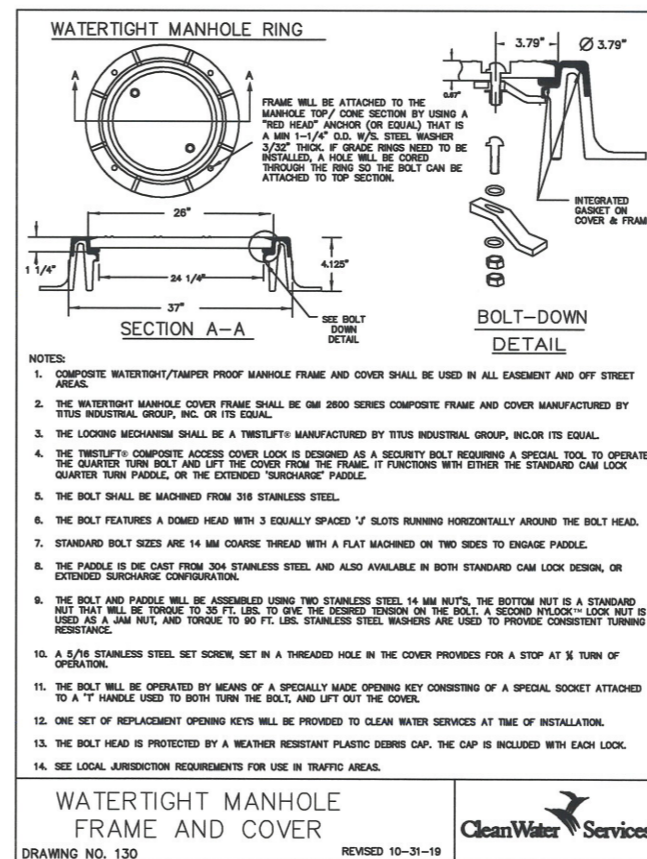
MANHOLE STEP

DRAWING NO. 100 REVISED 10-31-19



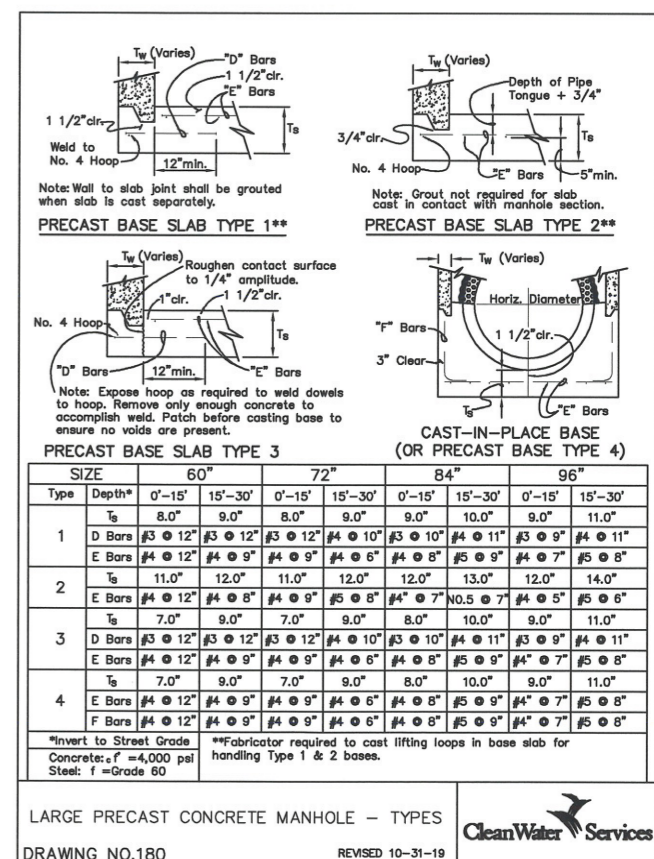
STORM WATER MANHOLE LID

DRAWING NO. 120 REVISED 10-31-19



WATER TIGHT MANHOLE FRAME AND COVER

DRAWING NO. 130 REVISED 10-31-19



LARGE PRECAST CONCRETE MANHOLE - TYPES

DRAWING NO. 180 REVISED 10-31-19



**MICHAEL COURT STORM REHABILITATION**

LOCATED IN SECTION 32DD, 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) 925-2308  
FAX: (503) 625-0529  
E-MAIL: engineering@sherwoodoregon.gov

DESIGNED BY: CCC  
DRAWN BY: CCC  
CHECKED BY: RS  
FULL SIZE SCALE: N/A  
DATE: JANUARY, 2020

MICHAEL COURT STORM SHEETS

REVISIONS

JOB NO.

SHEET NO. **7**

OF 11

60" Manhole Section NOTE: MAX. LONG. BAR SPACING IS 12" C.-C.

| TYPE   | INVERT TO STREET GRADE | T <sub>1</sub> = 5.0' |        |          |          | T <sub>2</sub> = 6.0' |        |          |          | T <sub>3</sub> = 6.75' |        |          |          |
|--------|------------------------|-----------------------|--------|----------|----------|-----------------------|--------|----------|----------|------------------------|--------|----------|----------|
|        |                        | OUTSIDE               | INSIDE | ON CTRL. | ON CTRL. | OUTSIDE               | INSIDE | ON CTRL. | ON CTRL. | OUTSIDE                | INSIDE | ON CTRL. | ON CTRL. |
| TYPE 1 | 0 Ft to 15 Ft          | 0.16                  | 0.15   | 0.24     | 0.16     | 0.09                  | 0.20   | 0.13     | 0.08     | 0.17                   |        |          |          |
|        | 15 Ft to 30 Ft         | 0.32                  | 0.18   | 0.53     | 0.25     | 0.19                  | 0.42   | 0.22     | 0.16     | 0.36                   |        |          |          |
| TYPE 2 | 0 Ft to 15 Ft          | 0.17                  | 0.15   | 0.28     | 0.19     | 0.09                  | 0.22   | 0.16     | 0.08     | 0.20                   |        |          |          |
|        | 15 Ft to 30 Ft         | 0.37                  | 0.18   | 0.63     | 0.28     | 0.19                  | 0.48   | 0.24     | 0.16     | 0.42                   |        |          |          |

'C' Bars-1 No. 4 hoop req'd. for less than 2'-0" cl. between blackout and top of section.

72" Manhole Section NOTE: MAX. LONG. BAR SPACING IS 12" C.-C.

| TYPE   | INVERT TO STREET GRADE | T <sub>1</sub> = 6.0' |        |          |          | T <sub>2</sub> = 7.0' |        |          |          | T <sub>3</sub> = 7.75' |        |          |          |
|--------|------------------------|-----------------------|--------|----------|----------|-----------------------|--------|----------|----------|------------------------|--------|----------|----------|
|        |                        | OUTSIDE               | INSIDE | ON CTRL. | ON CTRL. | OUTSIDE               | INSIDE | ON CTRL. | ON CTRL. | OUTSIDE                | INSIDE | ON CTRL. | ON CTRL. |
| TYPE 1 | 0 Ft to 15 Ft          | 0.19                  | 0.19   | 0.26     | 0.17     | 0.16                  | 0.22   | 0.16     | 0.14     | 0.20                   |        |          |          |
|        | 15 Ft to 30 Ft         | 0.33                  | 0.28   | 0.58     | 0.27     | 0.23                  | 0.48   | 0.26     | 0.26     | 0.42                   |        |          |          |
| TYPE 2 | 0 Ft to 15 Ft          | 0.19                  | 0.13   | 0.28     | 0.18     | 0.15                  | 0.23   | 0.16     | 0.17     | 0.28                   |        |          |          |
|        | 15 Ft to 30 Ft         | 0.36                  | 0.13   | 0.65     | 0.29     | 0.15                  | 0.52   | 0.26     | 0.17     | 0.46                   |        |          |          |

'C' Bars-2 No. 5 HOOPS 2" CLR. OF TOP OF MH BARREL }  
2 NO. 3 HOOPS 2" CLR. OVER PIPE BLOCKOUTS }  
NEEDD. FOR LESS THAN 2'-0" CLR. BETWEEN BLOCKOUT AND TOP OF SECTION.

84" Manhole Section NOTE: MAX. LONG. BAR SPACING IS 12" C.-C.

| TYPE   | INVERT TO STREET GRADE | T <sub>1</sub> = 7.0' |        |          |          | T <sub>2</sub> = 8.0' |        |          |          | T <sub>3</sub> = 8.75' |        |          |          |
|--------|------------------------|-----------------------|--------|----------|----------|-----------------------|--------|----------|----------|------------------------|--------|----------|----------|
|        |                        | OUTSIDE               | INSIDE | ON CTRL. | ON CTRL. | OUTSIDE               | INSIDE | ON CTRL. | ON CTRL. | OUTSIDE                | INSIDE | ON CTRL. | ON CTRL. |
| TYPE 1 | 0 Ft to 15 Ft          | 0.20                  | 0.13   | 0.26     | 0.17     | 0.12                  | 0.22   | 0.15     | 0.10     | 0.20                   |        |          |          |
|        | 15 Ft to 30 Ft         | 0.33                  | 0.23   | 0.59     | 0.28     | 0.26                  | 0.50   | 0.30     | 0.23     | 0.45                   |        |          |          |
| TYPE 2 | 0 Ft to 15 Ft          | 0.23                  | 0.15   | 0.33     | 0.21     | 0.17                  | 0.28   | 0.19     | 0.19     | 0.25                   |        |          |          |
|        | 15 Ft to 30 Ft         | 0.36                  | 0.15   | 0.65     | 0.30     | 0.17                  | 0.55   | 0.30     | 0.19     | 0.49                   |        |          |          |

'C' Bars-2 No. 5 HOOPS 2" CLR. OF TOP OF MH BARREL }  
2 NO. 3 HOOPS 2" CLR. OVER PIPE BLOCKOUTS }  
NEEDD. FOR LESS THAN 2'-0" CLR. BETWEEN BLOCKOUT AND TOP OF SECTION.

96" Manhole Section NOTE: MAX. LONG. BAR SPACING IS 12" C.-C.

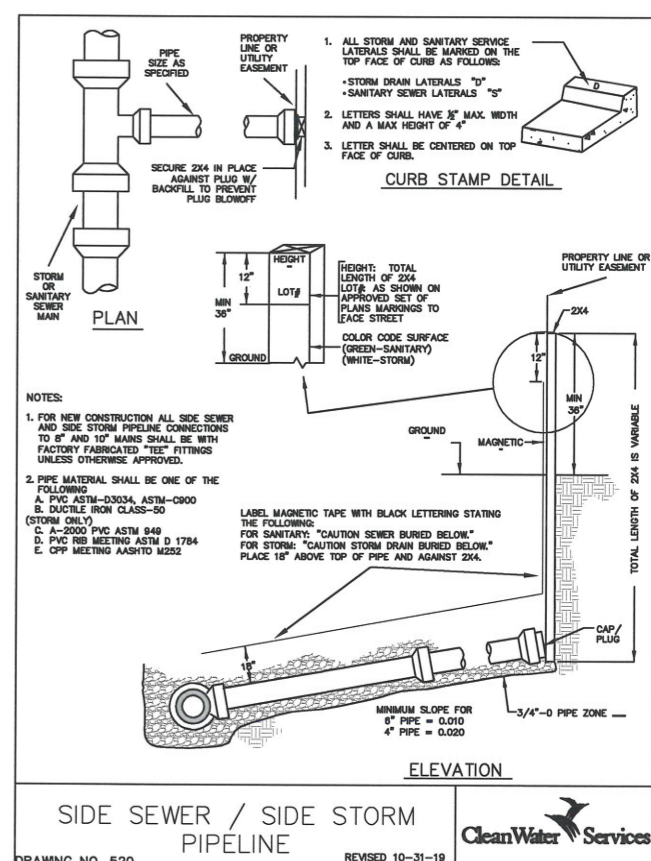
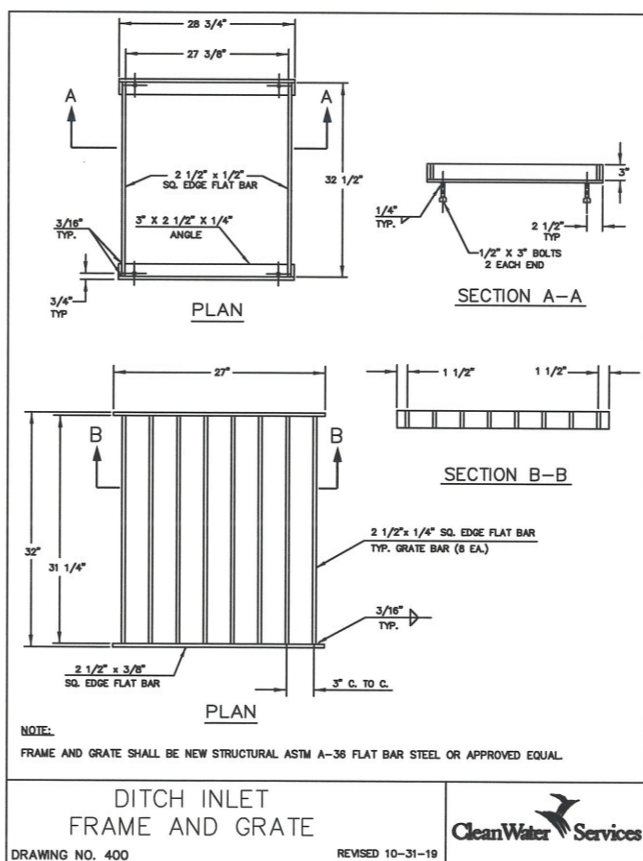
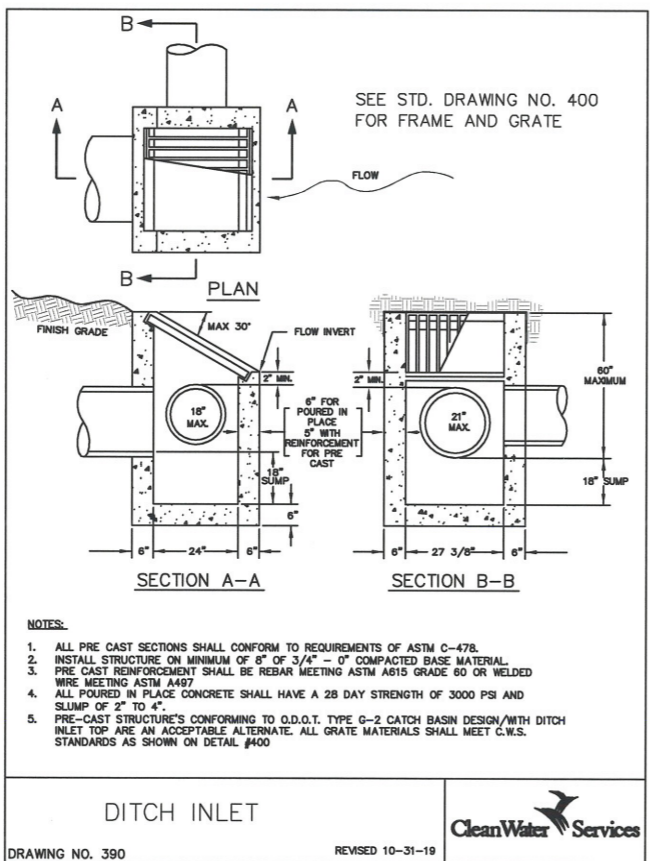
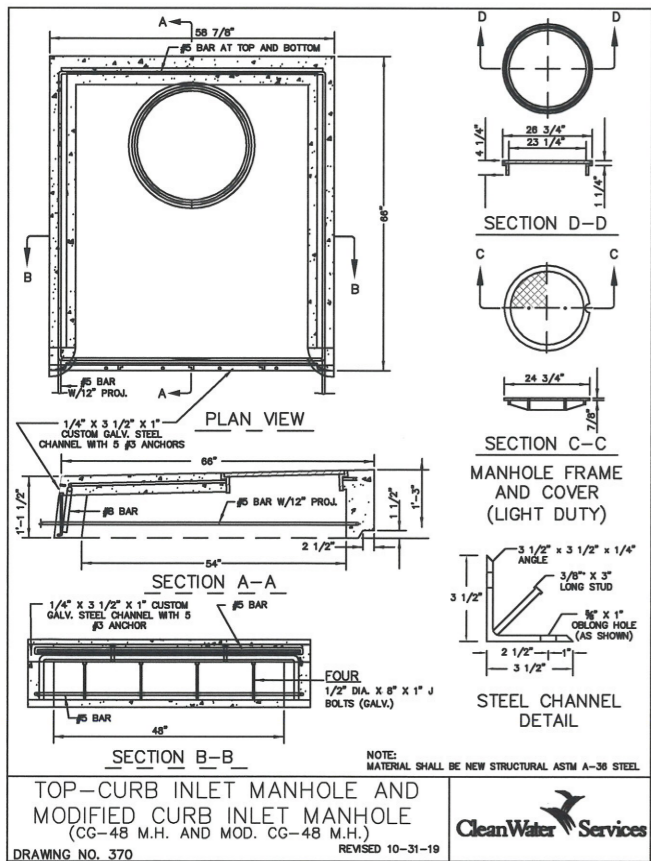
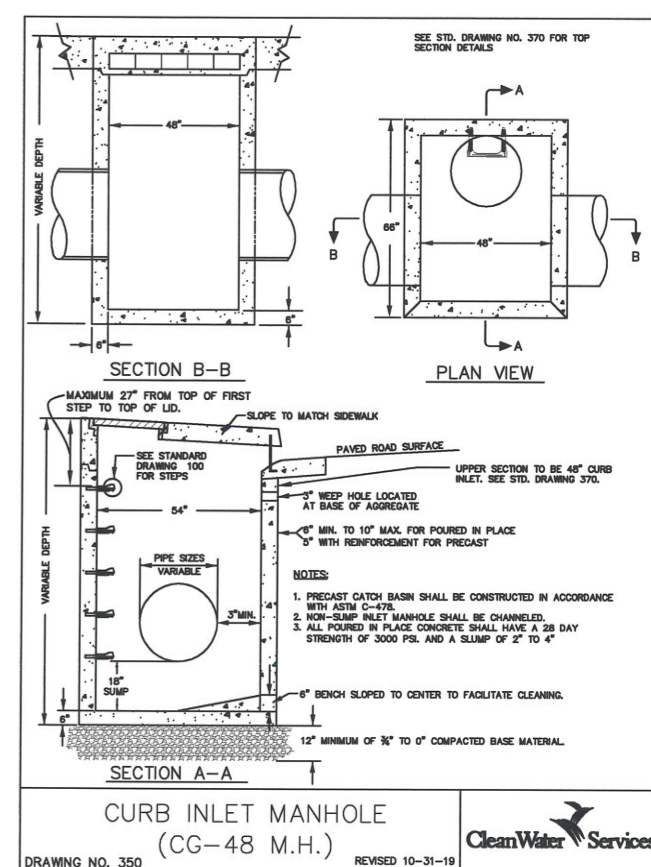
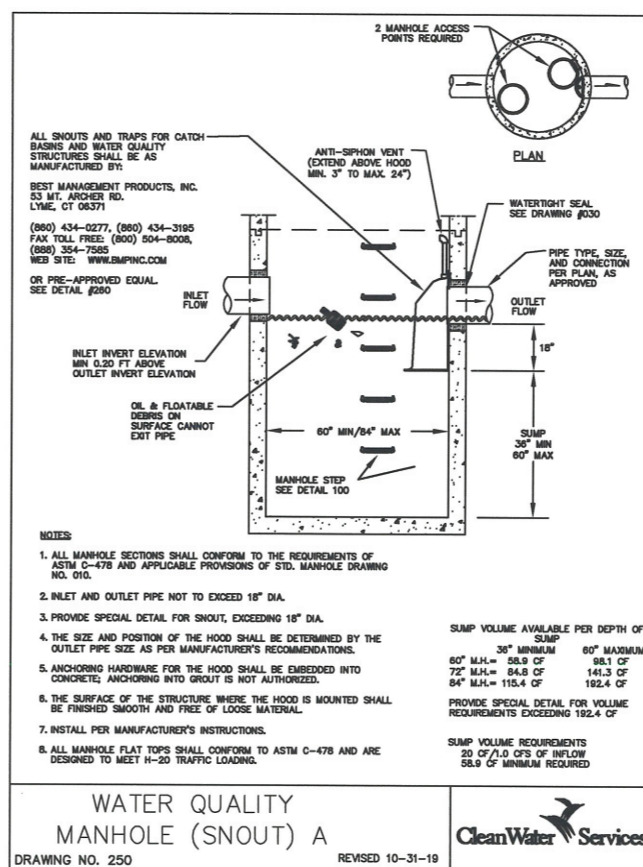
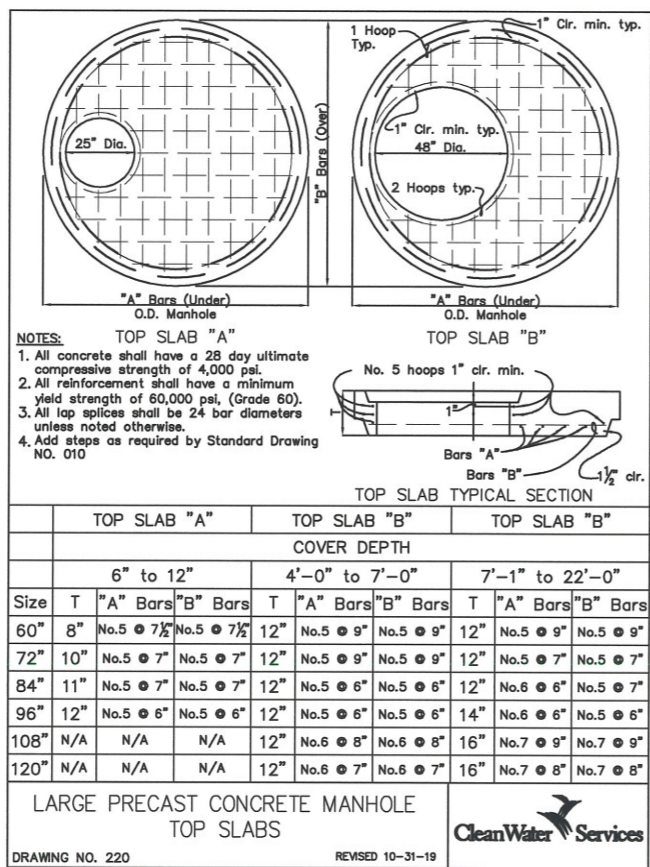
| TYPE   | INVERT TO STREET GRADE | T <sub>1</sub> = 8.0' |        |          |          | T <sub>2</sub> = 9.0' |        |          |          | T <sub>3</sub> = 9.75' |        |          |          |
|--------|------------------------|-----------------------|--------|----------|----------|-----------------------|--------|----------|----------|------------------------|--------|----------|----------|
|        |                        | OUTSIDE               | INSIDE | ON CTRL. | ON CTRL. | OUTSIDE               | INSIDE | ON CTRL. | ON CTRL. | OUTSIDE                | INSIDE | ON CTRL. | ON CTRL. |
| TYPE 1 | 0 Ft to 15 Ft          | 0.25                  | 0.18   | 0.33     | 0.21     | 0.16                  | 0.29   | 0.21     | 0.14     | 0.27                   |        |          |          |
|        | 15 Ft to 30 Ft         | 0.41                  | 0.26   | 0.77     | 0.35     | 0.30                  | 0.66   | 0.37     | 0.27     | 0.59                   |        |          |          |
| TYPE 2 | 0 Ft to 15 Ft          | 0.26                  | 0.17   | 0.34     | 0.22     | 0.19                  | 0.30   | 0.20     | 0.21     | 0.28                   |        |          |          |
|        | 15 Ft to 30 Ft         | 0.43                  | 0.17   | 0.82     | 0.37     | 0.19                  | 0.70   | 0.34     | 0.21     | 0.63                   |        |          |          |

'C' Bars-2 No. 5 HOOPS 2" CLR. OF TOP OF MH BARREL }  
2 NO. 3 HOOPS 2" CLR. OVER PIPE BLOCKOUTS }  
NEEDD. FOR LESS THAN 2'-0" CLR. BETWEEN BLOCKOUT AND TOP OF SECTION.

PROVIDE MIN. LONGITUD. REINF. AS SHOWN 1" CLR. OF INSIDE AND OUTSIDE FACES, OR AT CENTER OF WALL. AREAS ARE 1/2" FT. OF CIRCUMFERENCE AND MAY BE WELDED WIRE FABRIC BARS OR A COMBINATION OF BOTH.

LARGE PRECAST CONCRETE MANHOLE-  
LONG. BASE SECTION REINF.

CleanWater Services  
DRAWING NO. 200 REVISED 10-31-19



DETAILS

MICHAEL COURT STORM REHABILITATION

LOCATED IN SECTION 32DD, 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) 925-0629  
E-MAIL: engineering@sherwoodoregon.gov

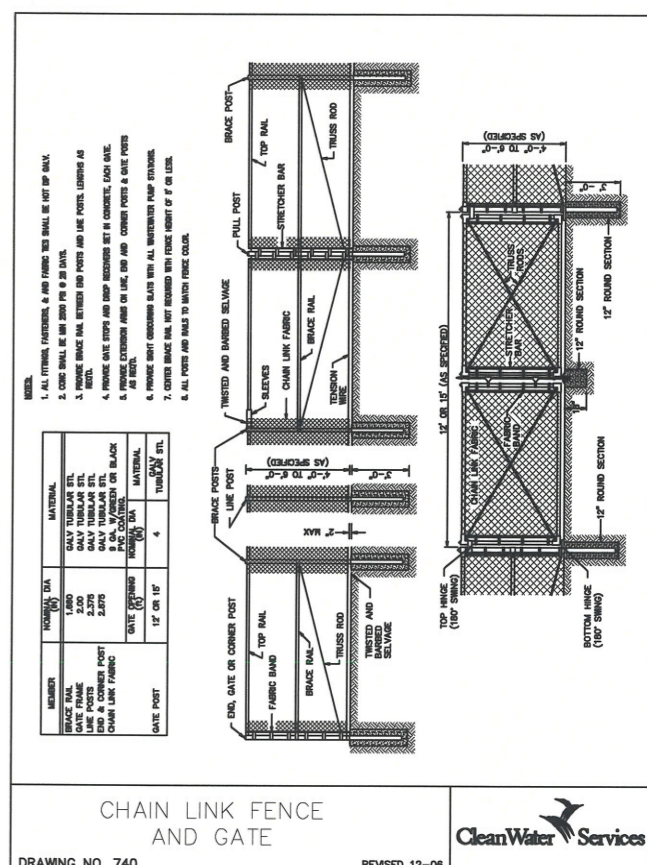
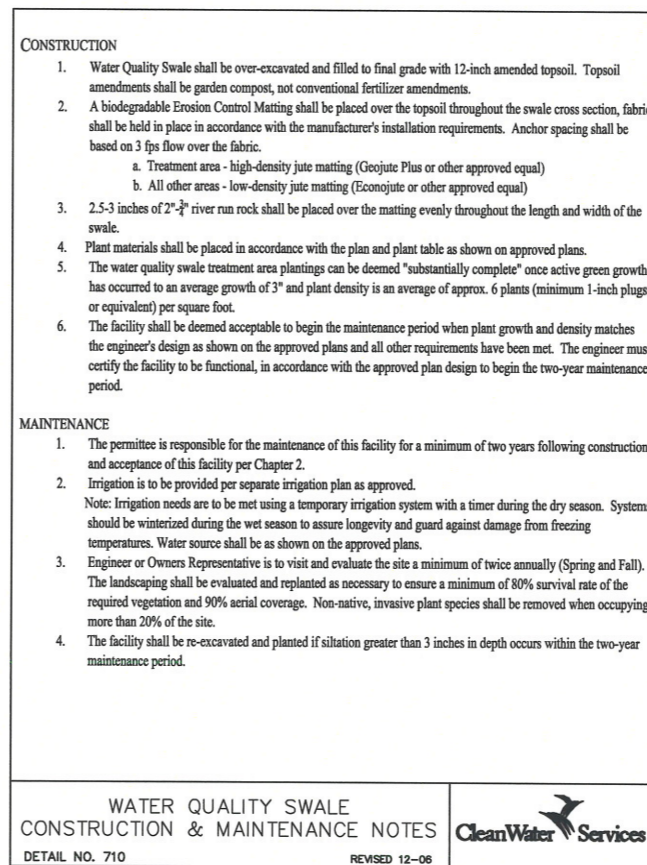
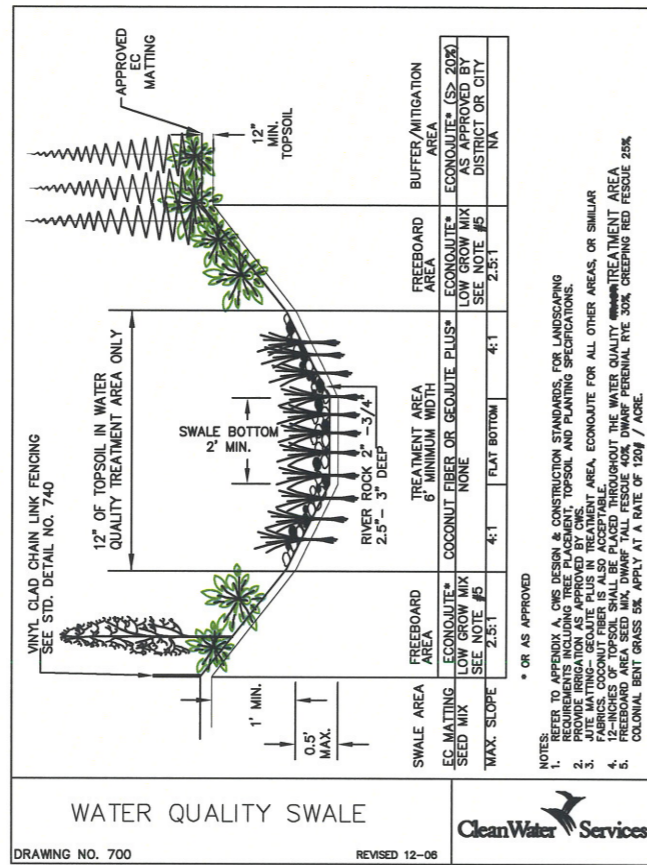
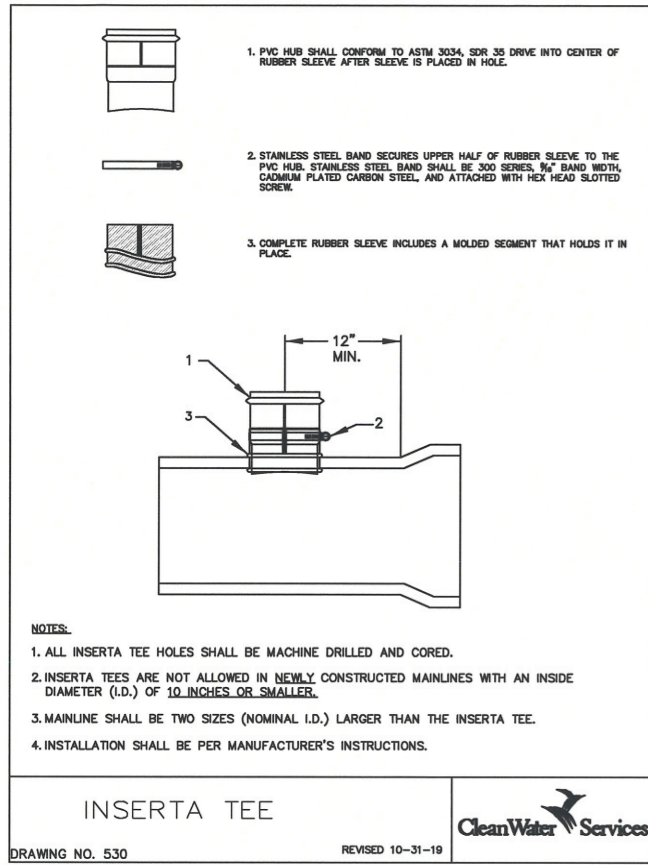
PROFESSIONAL ENGINEER  
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DESIGNED BY: CCC  
DRAWN BY: CCC  
CHECKED BY: RS  
FULL SIZE SCALE: N/A  
DATE: JANUARY, 2020  
MICHAEL COURT STORM SHEETS

REVISIONS

JOB NO.  
SHEET NO. 8  
8  
11





**DETAILS**

**MICHAEL COURT STORM REHABILITATION**

LOCATED IN SECTION 32DD, T2S, R1W, W.M.  
IN THE CITY OF SHERWOOD,  
WASHINGTON COUNTY, STATE OF OREGON

**RIPRAP:**

- ROCK FOR RIPRAP SHALL BE ANGULAR IN SHAPE.
- THICKNESS OF A SINGLE ROCK SHALL NOT BE LESS THAN ONE-THIRD ITS LENGTH.
- ROUNDED ROCK WILL NOT BE ACCEPTED UNLESS APPROVED BY THE DISTRICT.

**RIPRAP INSTALLATION:**

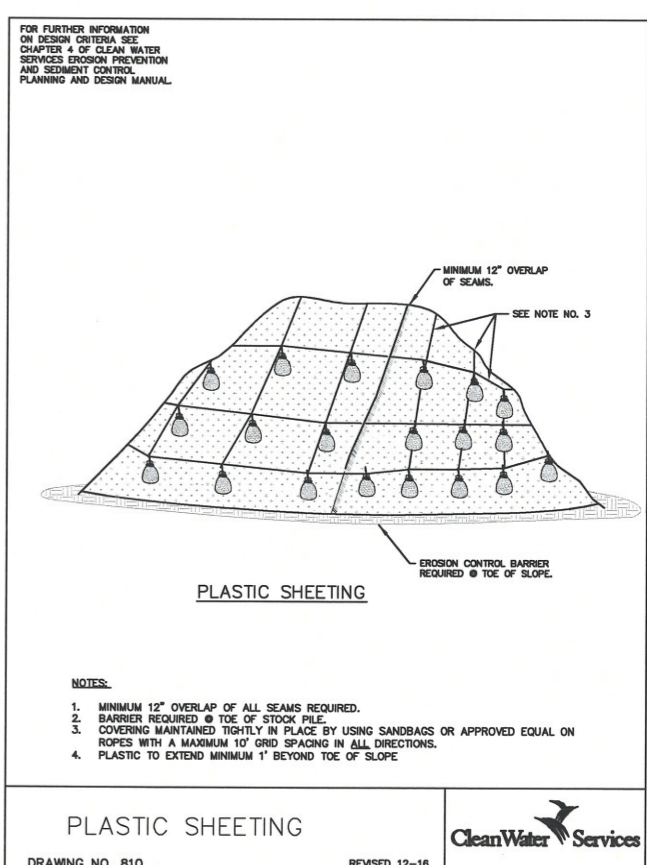
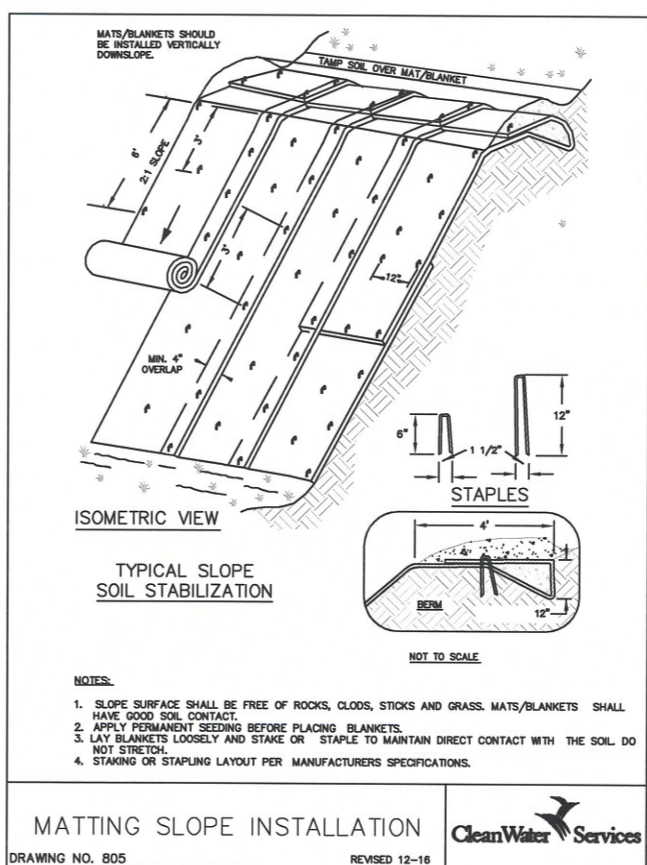
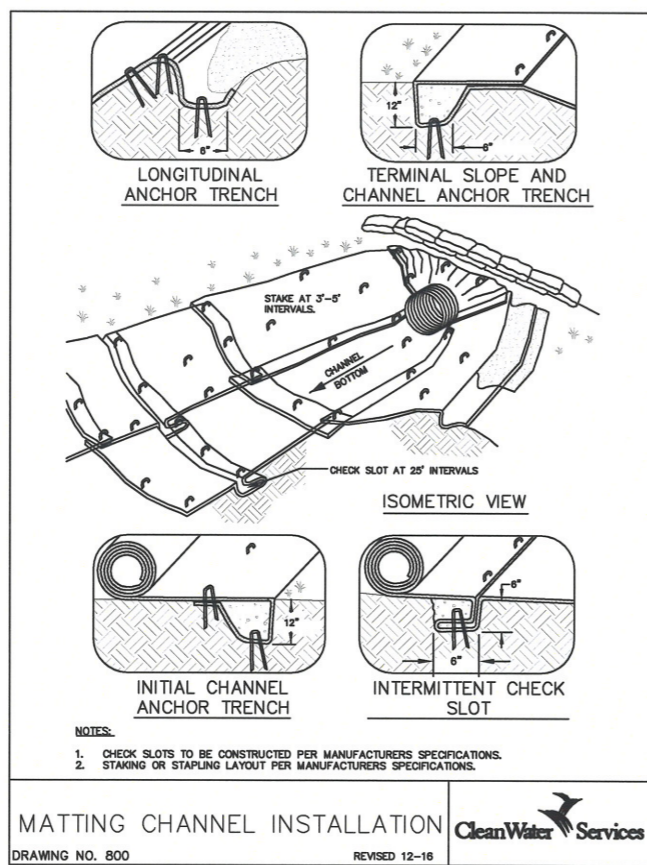
- EXCAVATE BELOW FINISH GRADE TO DEPTH & DIMENSIONS SHOWN ON APPROVED PLANS.
- INSTALL WOVEN GEOTEXTILE FABRIC.
- PLACE RIP RAP TO FINISH GRADE.

● GRADE RIPRAP SHALL BE THE CLASS AND SIZE OF ROCK ACCORDING TO THE FOLLOWING:

| CLASS                | CLASS  | CLASS   | CLASS   | CLASS     | PERCENT (BY WEIGHT) |
|----------------------|--------|---------|---------|-----------|---------------------|
| 50                   | 100    | 200     | 700     | 2000      |                     |
| WEIGHT OF ROCK (LBS) |        |         |         |           | PERCENT (BY WEIGHT) |
| 50-30                | 100-60 | 200-140 | 700-500 | 2000-1400 |                     |
| 30-15                | 80-25  | 140-80  | 500-200 | 1400-700  | 30                  |
| 15-2                 | 25-2   | 80-8    | 200-20  | 700-40    | 40                  |
| 2-0                  | 2-0    | 8-0     | 20-0    | 40-0      | 10                  |

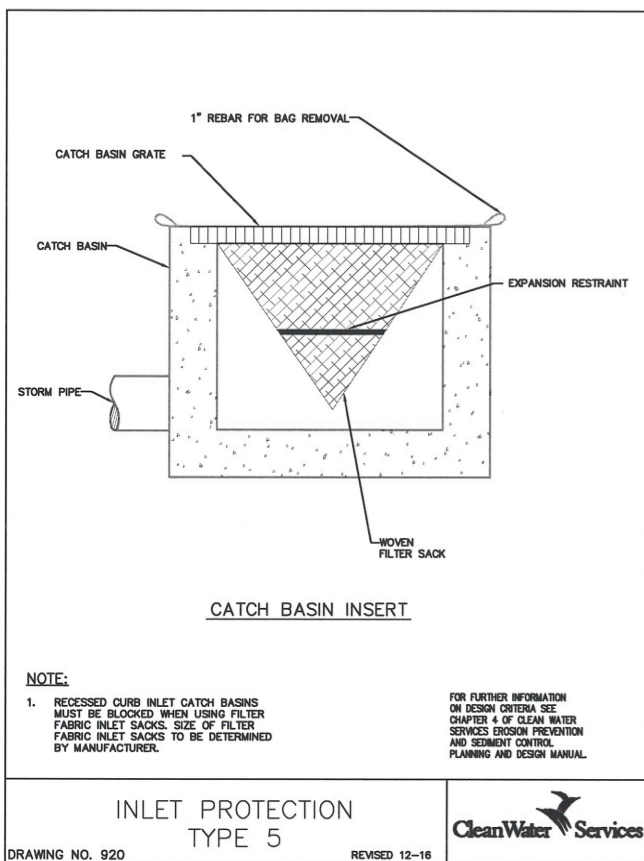
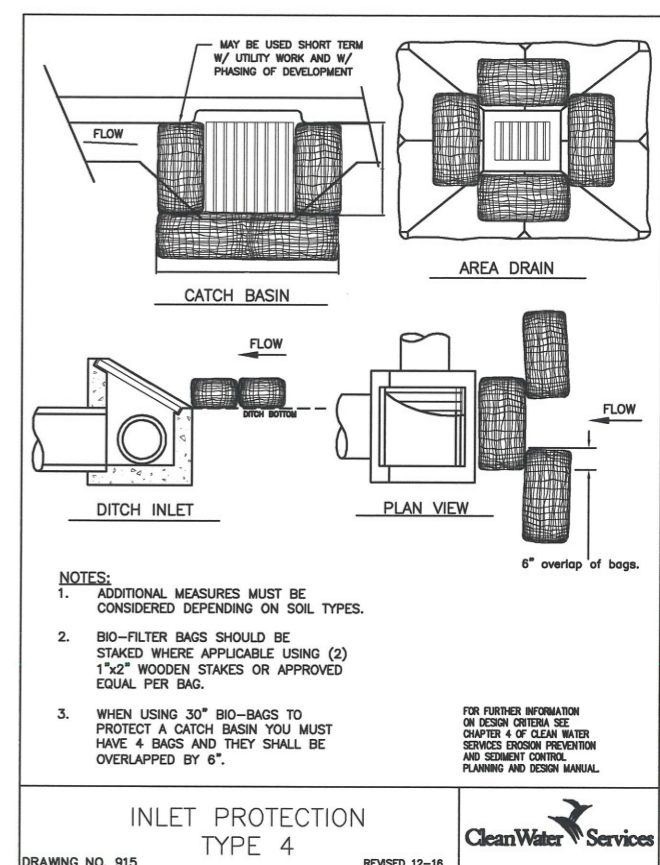
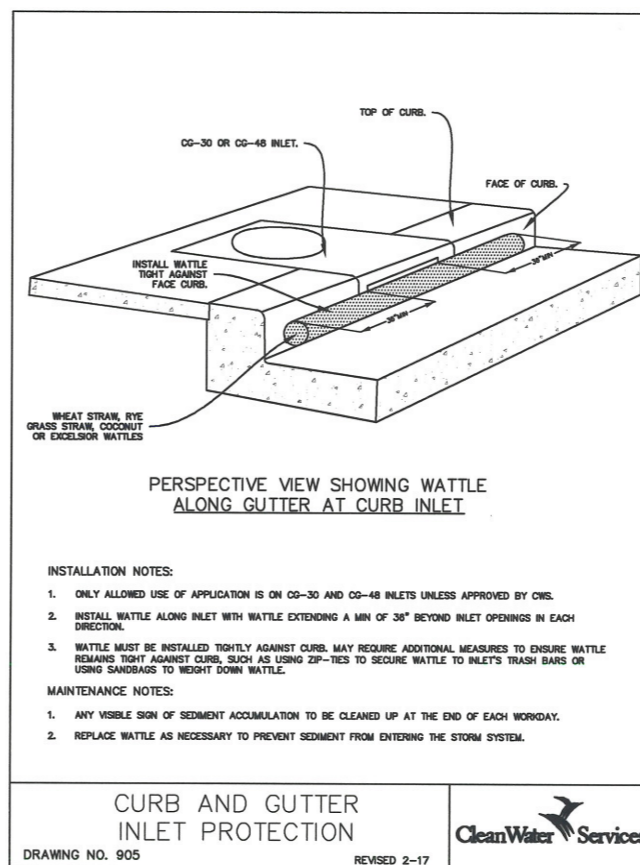
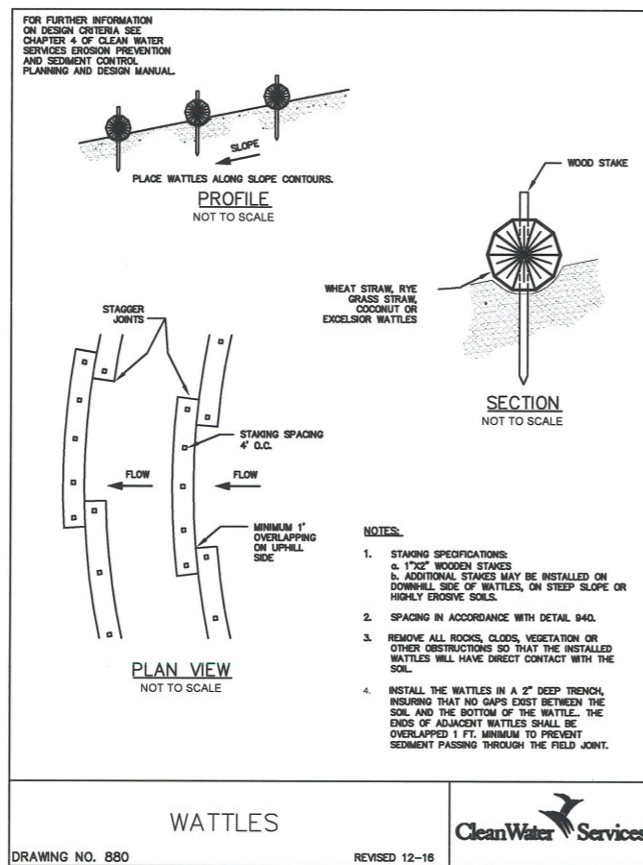
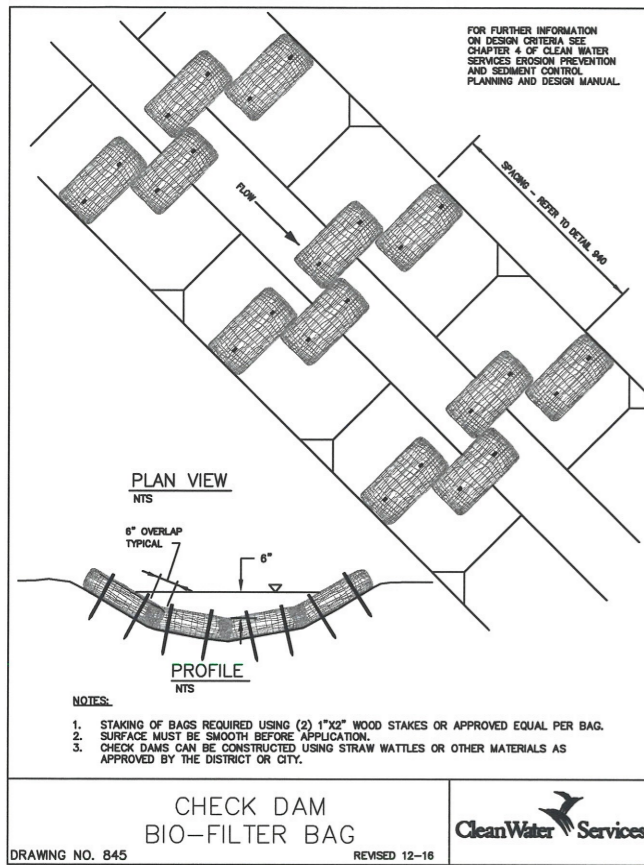
**RIP RAP DETAILS**

DRAWING NO. 770      REVISED 3-07      CleanWater Services



**CITY OF SHERWOOD ENGINEERING DEPARTMENT**  
22560 SW PINE STREET  
SHERWOOD, OREGON 97140  
PHONE: (503) 925-2309  
FAX: (503) 925-0829  
E-MAIL: engineering@sherwoodoregon.gov

**PROFESSIONAL ENGINEER**  
1-16-20  
MICHAEL COURT STORM REHABILITATION  
SHEET 9 OF 11



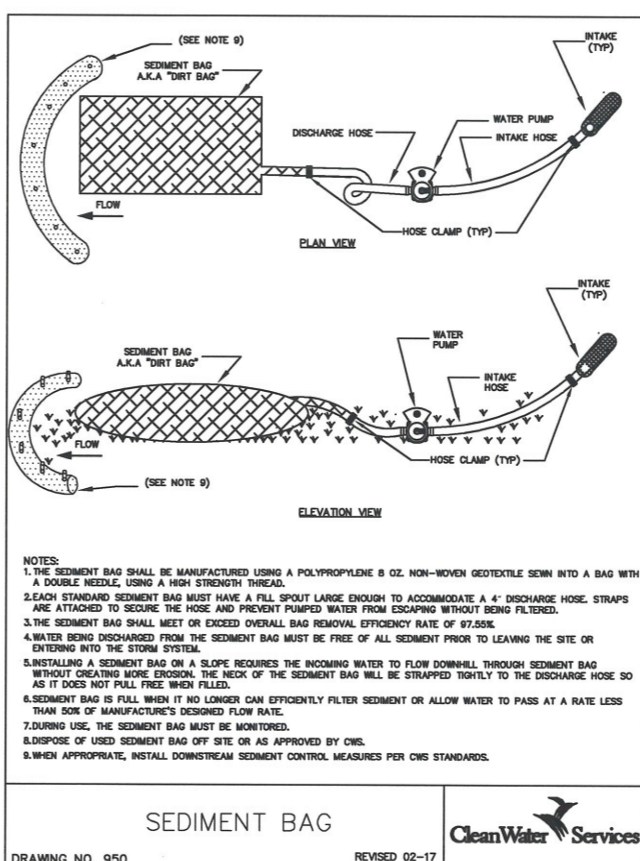
NOTES:

1. WHEN RAINFALL AND RUNOFF OCCURS, A KNOWLEDGEABLE AND EXPERIENCED PERSON IN THE PRINCIPLES, PRACTICES, INSTALLATION, AND MAINTENANCE OF EROSION AND SEDIMENT CONTROLS WHO WORKS FOR THE PERMITTEE MUST PROVIDE DAILY INSPECTIONS OF THE EROSION AND SEDIMENT CONTROLS AND DISCHARGE OUTFALLS.
2. CONSTRUCTION ACTIVITIES MUST AVOID OR MINIMIZE EXCAVATION AND CREATION OF BARE GROUND FROM OCTOBER 1 THROUGH MAY 31ST EACH YEAR.
3. DURING WET WEATHER PERIOD, TEMPORARY STABILIZATION OF THE SITE MUST OCCUR AT THE END OF EACH WORK DAY.
4. SEDIMENT CONTROLS MUST BE INSTALLED AND MAINTAINED ON ALL DOWN GRADIENT SIDES OF THE CONSTRUCTION SITE AT ALL TIMES DURING CONSTRUCTION. THEY MUST REMAIN IN PLACE UNTIL PERMANENT VEGETATION OR OTHER PERMANENT COVERING OF EXPOSED SOIL IS ESTABLISHED.
5. ALL ACTIVE INLETS MUST HAVE SEDIMENT CONTROLS INSTALLED AND MAINTAINED AT ALL TIMES DURING CONSTRUCTION. UNLESS OTHERWISE APPROVED, A SURFACE MOUNTED AND ATTACHABLE, U-SHAPED FILTER BAG IS REQUIRED FOR ALL CURB INLET CATCH BASINS.
6. SIGNIFICANT AMOUNTS OF SEDIMENT THAT LEAVES THE SITE MUST BE CLEANED UP WITHIN 24 HOURS AND PLACED BACK ON THE SITE AND STABILIZED OR PROPERLY DISPOSED. THE CAUSE OF THE SEDIMENT RELEASE MUST BE FOUND AND PREVENTED FROM CAUSING A RECURRENCE OF THE DISCHARGE WITHIN THE SAME 24 HOURS. ANY IN-STREAM CLEAN UP OF SEDIMENT SHALL BE PERFORMED ACCORDING TO THE OREGON DEPARTMENT OF STATE LANDS REQUIRED TIME FRAME.
7. SEDIMENT MUST NOT BE INTENTIONALLY WASHED INTO STORM SEWERS, DRAINAGE WAYS, OR WATER BODIES.
8. SEDIMENT MUST BE REMOVED FROM BEHIND ALL SEDIMENT CONTROL MEASURES WHEN IT HAS REACHED A HEIGHT OF 1/3-RO THE BARRIER HEIGHT AND PRIOR TO THE CONTROL MEASURES REMOVAL.
9. CLEANING OF ALL STRUCTURES WITH SUMPS MUST OCCUR WHEN THE SEDIMENT RETENTION CAPACITY HAS BEEN REDUCED BY 50% AND AT COMPLETION OF PROJECT.
10. ANY USE OF TOXIC OR OTHER HAZARDOUS MATERIALS MUST INCLUDE PROPER STORAGE, APPLICATION, AND DISPOSAL.
11. THE PERMITTEE MUST PROPERLY MANAGE HAZARDOUS WASTES, USED OILS, CONTAMINATED SOILS, CONCRETE WASTE, SANITARY WASTE, LIQUID WASTE, OR OTHER TOXIC SUBSTANCES DISCOVERED OR GENERATED DURING CONSTRUCTION.
12. THE APPLICATION RATE OF FERTILIZERS USED TO REESTABLISH VEGETATION MUST FOLLOW MANUFACTURER'S RECOMMENDATIONS. NUTRIENT RELEASES FROM FERTILIZERS TO SURFACE WATERS MUST BE MINIMIZED. TIME RELEASE FERTILIZERS SHOULD BE USED AND CARE SHOULD BE MADE IN APPLICATION OF FERTILIZERS WITHIN ANY WATER WAY RIPARIAN ZONE.
13. OWNER OR DESIGNATED PERSON SHALL BE RESPONSIBLE FOR PROPER INSTALLATION AND MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL MEASURES, IN ACCORDANCE WITH CURRENT CLEAN WATER SERVICES STANDARDS AND STATE, AND FEDERAL REGULATIONS.
14. PRIOR TO ANY LAND DISTURBING ACTIVITIES, THE BOUNDARIES OF THE CLEARING LIMITS, VEGETATED BUFFERS, AND ANY SENSITIVE AREAS SHOWN ON THIS PLAN SHALL BE CLEARLY DELINEATED IN THE FIELD. UNLESS OTHERWISE APPROVED, NO DISTURBANCE IS PERMITTED BEYOND THE CLEARING LIMITS. THE OWNER/PERMITTEE MUST MAINTAIN THE DELINEATION FOR THE DURATION OF THE PROJECT. NOTE: VEGETATED CORRIDORS TO BE DELINEATED WITH ORANGE CONSTRUCTION FENCE OR APPROVED EQUAL.
15. PRIOR TO ANY LAND DISTURBING ACTIVITIES, THE BMPs THAT MUST BE INSTALLED ARE GRAVEL CONSTRUCTION ENTRANCE, PERIMETER SEDIMENT CONTROL, AND INLET PROTECTION. THESE BMPs MUST BE MAINTAINED FOR THE DURATION OF THE PROJECT.
16. IF VEGETATIVE SEED MIXES ARE SPECIFIED, SEEDING MUST TAKE PLACE NO LATER THAN SEPTEMBER 1ST; THE TYPE AND PERCENTAGES OF SEED IN THE MIX ARE AS IDENTIFIED ON THE PLANS OR AS SPECIFIED BY THE DESIGN ENGINEER.
17. WATERTIGHT TRUCKS MUST BE USED TO TRANSPORT SATURATED SOILS FROM THE CONSTRUCTION SITE. AN APPROVED EQUIVALENT IS TO DRAIN THE SOIL ON SITE AT A DESIGNATED LOCATION USING APPROPRIATE BMPs. SOIL MUST BE DRAINED SUFFICIENTLY FOR MINIMAL SPILLAGE.
18. ALL PUMPING OF SEDIMENT LADEN WATER MUST BE DISCHARGED OVER AN UNDISTURBED, PREFERABLY VEGETATED AREA, AND THROUGH A SEDIMENT CONTROL BMP (I.E. FILTER BAG).
19. THE ESC PLAN MUST BE KEPT ON SITE. ALL MEASURES SHOWN ON THE PLAN MUST BE INSTALLED PROPERLY TO ENSURE THAT SEDIMENT LADEN WATER DOES NOT ENTER A SURFACE WATER SYSTEM, ROADWAY, OR OTHER PROPERTIES.
20. THE ESC MEASURES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE MEASURES SHALL BE UPGRADED AS NEEDED TO MAINTAIN COMPLIANCE WITH ALL REGULATIONS.
21. WRITTEN ESC LOGS ARE SUGGESTED TO BE MAINTAINED ON SITE AND AVAILABLE TO DISTRICT INSPECTORS UPON REQUEST.
22. IN AREAS SUBJECT TO WIND EROSION, APPROPRIATE BMPs MUST BE USED WHICH MAY INCLUDE THE APPLICATION OF FINE WATER SPRAYING, PLASTIC SHEETING, MULCHING, OR OTHER APPROVED MEASURES.
23. ALL EXPOSED SOILS MUST BE COVERED DURING WET WEATHER PERIOD.

STANDARD EROSION CONTROL NOTES FOR SITES LESS THAN 1 ACRE

DRAWING NO. 945 REVISED 12-16

CleanWater Services



DETAILS

MICHAEL COURT STORM REHABILITATION

LOCATED IN SECTION 32DD, T2S, R1W, W.M. IN THE CITY OF SHERWOOD, WASHINGTON COUNTY, STATE OF OREGON

CITY OF SHERWOOD  
ENGINEERING DEPARTMENT  
20455 SW PINE STREET  
SHERWOOD, OREGON 97140  
PHONE: (503) 895-2369  
FAX: (503) 875-0629  
E-MAIL: [engineering@ci.sherwood.or.us](mailto:engineering@ci.sherwood.or.us)

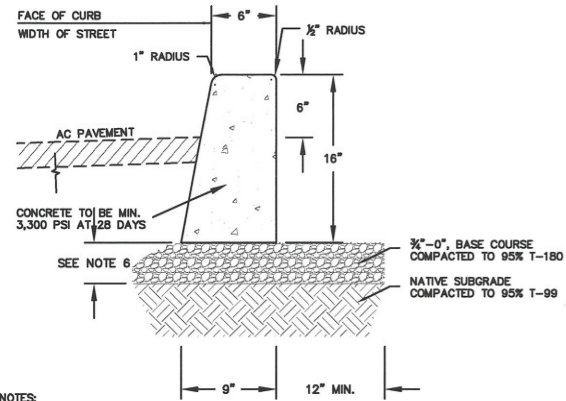
1-16-20

DESIGNED BY: CCC  
DRAWN BY: CCC  
CHECKED BY: RS  
FULL SIZE SCALE: N/A  
DATE: JANUARY, 2020

REVISIONS

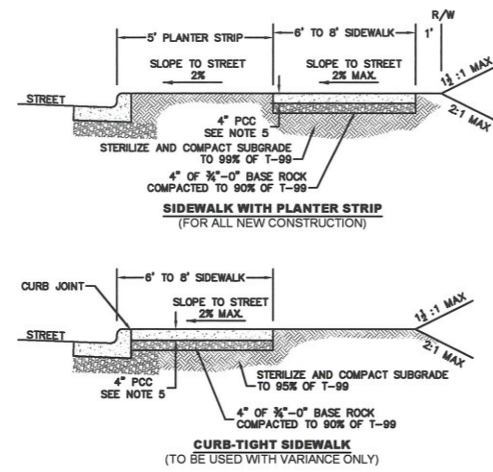
JOB NO.  
SHEET NO. 10  
OF 11

EXPIRES: 12-31-21



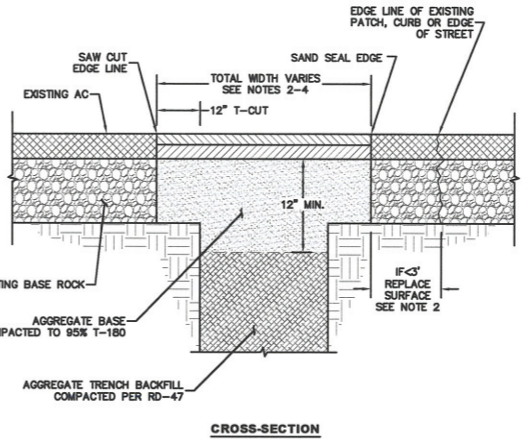
- NOTES:
- VERTICAL CURB TO BE USED AT MEDIANS AND MEDIAN PLANTING STRIPS, OR IN REPLACEMENT OF DAMAGED EXISTING VERTICAL CURBS.
  - CONCRETE SHALL BE COMMERCIAL MIX. MIN. COMPRESSIVE STRENGTH OF 3,300 PSI AT 28 DAYS.
  - EXPANSION JOINTS TO BE PROVIDED: AT POINT OF TANGENCY OF THE CURB, AT EACH COLD JOINT, AT THE SIDE OF INLET STRUCTURES, AT THE ENDS OF DRIVEWAYS AND AT LOCATIONS NECESSARY TO LIMIT SPACING TO 45 FEET.
  - MATERIAL TO BE PRE-MOLDED, ASPHALT IMPREGNATED, NON-EXTRUDING, WITH A THICKNESS OF 1/2 INCH.
  - CONTRACTION JOINTS SHALL NOT BE SPACED MORE THAN 15 FEET AND SHALL BE 1 1/2" IN DEPTH.
  - BASE ROCK: 3/4"-0", COMPACTED TO 95% MAX DENSITY. BASE ROCK SHALL BE TO SUBGRADE OF STREET STRUCTURE OR 6" IN DEPTH, WHICHEVER IS GREATER.

|  |                        |                |
|--|------------------------|----------------|
| SHERWOOD OREGON  | STANDARD DRAWING TITLE | DRAWING NUMBER |
|  | VERTICAL CURB          | RD-21          |
| Any alteration of this drawing may not be associated in any way with the City of Sherwood Standard Drawings. | SCALE                  | DATE           |
|  | N.T.S.                 | MAR '16        |



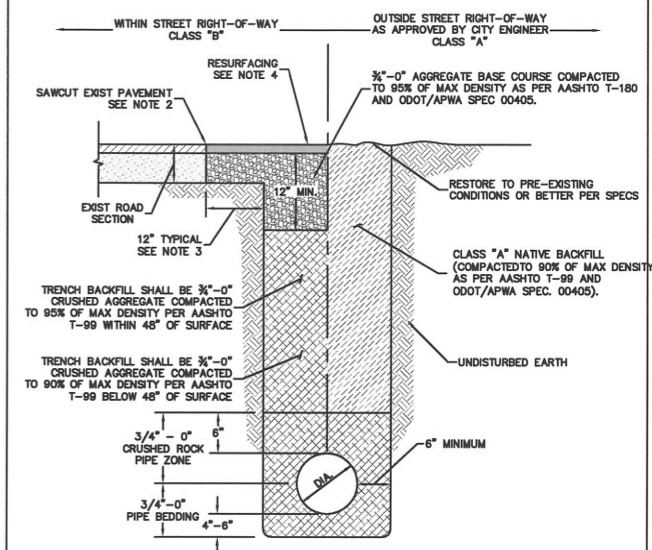
- NOTES:
- CONCRETE SHALL BE COMMERCIAL MIX, MIN. COMPRESSIVE STRENGTH OF 3,300 PSI @ 28 DAYS, WITH A 4" MAX SLUMP.
  - SIDEWALK PANELS TO BE SQUARE (6' LONG x 6' WIDE TYP.).
  - EXPANSION JOINTS TO BE PLACED AT SIDES OF DRIVEWAY APPROACHES, UTILITY VAULTS, CURB RAMPS, AND/OR POINTS OF TANGENCY IN CURBS AS SHOWN ON THE STANDARD DRAWINGS FOR SIDEWALK RAMPS, AND AT SPACING NOT TO EXCEED 45'.
  - FOR SIDEWALKS ADJACENT TO THE CURB AND POURED AT THE SAME TIME AS THE CURB, THE JOINT BETWEEN THEM SHALL BE A TROWELED JOINT WITH A MINIMUM 1/2" RADIUS.
  - SIDEWALKS SHALL HAVE A MINIMUM THICKNESS OF 4". IF MOUNTABLE CURB IS USED, OR IF SIDEWALK IS INTENDED AS PORTION OF A RESIDENTIAL DRIVEWAY IT SHALL HAVE A 6" MINIMUM THICKNESS, COMMERCIAL 8".
  - CONCRETE SHALL HAVE A BROOM FINISH, ALL JOINTS SHALL BE EDGED WITH 3" SHINE.
  - WIDTH OF PLANTER STRIP AND SIDEWALK IS MEASURED FROM FACE OF CURB.
  - IF DRAIN BLOCKOUTS IN CURBS ARE APPROVED, THEY SHALL BE EXTENDED PERPENDICULAR TO CURB TO 1' PAST BACK OF SIDEWALK WITH A 3" DIAMETER ADS PIPE. CONTRACTION JOINT SHALL BE PLACED OVER PIPE.

|  |                        |                |
|--|------------------------|----------------|
| SHERWOOD OREGON  | STANDARD DRAWING TITLE | DRAWING NUMBER |
|  | SIDEWALK DETAIL        | RD-26          |
| Any alteration of this drawing may not be associated in any way with the City of Sherwood Standard Drawings. | SCALE                  | DATE           |
|  | N.T.S.                 | MAR '16        |



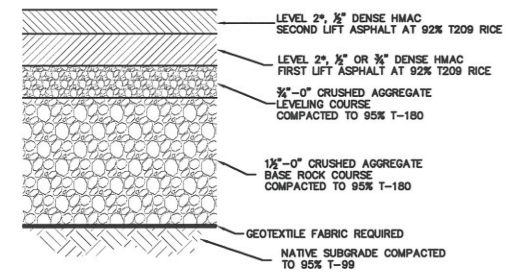
- NOTES:
- T-CUT IS 12" MINIMUM FOR TRENCHES WIDER THAN 12".
  - IF NEW EDGE OF PAVEMENT IS LESS THAN 3' FROM ANOTHER PATCH, CURB, EDGE OF STREET OR LONGITUDINAL CRACK, REPLACE THE PAVEMENT IN BETWEEN.
  - IF MORE THAN ONE EXISTING PATCH EDGE IS WITHIN THE 3' ZONE, REMOVE PAVEMENT TO THE FAR EDGE OF THE PRE-EXISTING PATCH.
  - NEW EDGE OF PAVEMENT (EDGE LINE) SHALL NOT LIE IN A WHEEL PATH. WIDTH OF T-CUT SHALL BE WIDENED WHERE NECESSARY TO MOVE THE EDGE LINE OUT OF THE WHEEL PATH.
  - SEE STD DET RD-20 FOR TYPICAL STREET PAVEMENT SECTION.
  - SEE STD DET RD-47 FOR TYPICAL TRENCH BACKFILL REQUIREMENTS.

|  |                         |                |
|--|-------------------------|----------------|
| SHERWOOD OREGON  | STANDARD DRAWING TITLE  | DRAWING NUMBER |
|  | PIPE TRENCH RESTORATION | RD-45          |
| Any alteration of this drawing may not be associated in any way with the City of Sherwood Standard Drawings. | SCALE                   | DATE           |
|  | N.T.S.                  | MAR '16        |



- NOTES:
- THESE TRENCH BACKFILL REQUIREMENTS APPLY TO ALL PUBLIC UTILITY PIPES. FOR ADDITIONAL REQUIREMENTS, SEE CITY STANDARD DESIGN MANUAL SECTION 210.19.
  - SAWCUT EXISTING HMA/AC PAVEMENT FULL DEPTH. SAWCUT EXISTING PCC PAVEMENT ACCORDING TO CITY STANDARD DETAILS.
  - 12" FOR TRENCHES WIDER THAN 12". 6" FOR TRENCHES LESS THAN 12".
  - MATCH EXISTING PAVEMENT MATERIAL(S). THICKNESS SHALL BE AS FOLLOWS:
    - FOR EXISTING HMA/AC: RESURFACE TO A MINIMUM OF 3" OF LEVEL 2, 3/4" DENSE HMA/AC OR EXISTING AC THICKNESS PLUS 2", WHICHEVER IS GREATER, BUT DO NOT EXCEED 6". COMPACT AC IN 2" MAX LIFTS TO 92% OF MAXIMUM DENSITY (RICE).
    - FOR EXISTING PCC: EXISTING PAVEMENT THICKNESS PLUS 2", BUT NOT LESS THAN 6". ON ARTERIAL AND COLLECTOR STREETS, CONCRETE PATCHING MATERIAL SHALL BE HIGH EARLY STRENGTH CLASS 5000 PSI PCC APPROVED BY CITY ENGINEER.
  - ALL CUT EDGES OF AC SHALL BE SAND SEALED WITH CRS-1 OR CRS-2 EMULSIFIED ASPHALT OR EQUIVALENT.

|  |                        |                |
|--|------------------------|----------------|
| SHERWOOD OREGON  | STANDARD DRAWING TITLE | DRAWING NUMBER |
|  | PIPE TRENCH BACKFILL   | RD-47          |
| Any alteration of this drawing may not be associated in any way with the City of Sherwood Standard Drawings. | SCALE                  | DATE           |
|  | N.T.S.                 | MAR '16        |



PAVEMENT SECTION CHART  
COMPONENT THICKNESS (INCHES)

| FUNCTIONAL CLASSIFICATION | SECOND LIFT HMAc THICKNESS | FIRST LIFT HMAc THICKNESS | LEVELING COURSE THICKNESS | BASE ROCK COURSE THICKNESS |
|---------------------------|----------------------------|---------------------------|---------------------------|----------------------------|
| LOCAL                     | 2"                         | 2"                        | 2"                        | 8"                         |
| NEIGHBORHOOD              | 2"                         | 2"                        | 2"                        | 8"                         |
| COMMERCIAL                | 2"                         | 3"                        | 3"                        | 8"                         |
| COLLECTOR                 | 2"                         | 3"                        | 3"                        | 8"                         |
| ARTERIAL                  | 2"                         | 3"                        | 3"                        | 10"                        |

- NOTES:
- MATERIALS AND PLACEMENT OF THE HOT MIXED ASPHALT CONCRETE PAVEMENT (ACP) SHALL CONFORM TO THE REQUIREMENTS DELINEATED IN SECTION 00744 - ASPHALT CONCRETE PAVEMENT (ACP), OF THE ODOT/APWA, OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION (LATEST EDITION), EXCEPT AS MODIFIED BY CITY AND NOTED IN THE CITY'S ENGINEERING DESIGN AND STANDARD DETAILS MANUAL (LATEST EDITION).
  - THE TOP LIFT OF HMAc SHALL BE PLACED PRIOR TO CITY FINAL ACCEPTANCE OF PUBLIC INFRASTRUCTURE IMPROVEMENTS.
  - CRUSHED AGGREGATE USED FOR BASE ROCK AND LEVELING COURSE SHALL CONFORM TO THE REQUIREMENTS DELINEATED IN SECTION 02830 - BASE AGGREGATE, OF THE ODOT/APWA, OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION (LATEST EDITION).

\* FOR ARTERIAL CLASSIFICATION USE LEVEL 3.

|  |                        |                |
|--|------------------------|----------------|
| SHERWOOD OREGON  | STANDARD DRAWING TITLE | DRAWING NUMBER |
|  | PAVEMENT SECTION       | RD-20          |
| Any alteration of this drawing may not be associated in any way with the City of Sherwood Standard Drawings. | SCALE                  | DATE           |
|  | N.T.S.                 | MAR '16        |

DETAILS

MICHAEL COURT STORM REHABILITATION

LOCATED IN SECTION 32DD, 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) 925-7309  
FAX: (503) 625-0629  
E-MAIL: engineering@sherwoodoregon.gov

1-16-20  
PROFESSIONAL ENGINEER  
NSH00015  
JAMES H. HARRIS  
CREATED BY: JHH  
DATE: 01/16/20  
EXPIRES: 12-31-21

|                            |     |              |               |
|----------------------------|-----|--------------|---------------|
| DESIGNED BY:               | CCC | DESIGNED BY: | CCC           |
| DRAWN BY:                  | CCC | CHECKED BY:  | RS            |
| FULL SIZE SCALE:           | N/A | DATE:        | JANUARY, 2020 |
| MICHAEL COURT STORM SHEETS |     |              |               |

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| REVISIONS |  |  |  |
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| JOB NO.   |    |
| SHEET NO. | 11 |
| OF        | 11 |