



8073 – Tonquin Employment Area Sanitary Upgrade

DATE: March 29, 2013

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. Prequalification must be submitted by **Tuesday, April 2, 2013.**
2. Separation between contractor equipment and BPA power lines will meet the following:

20120234; Fee Owned: For the Keeler-Oregon City No. 2, 115kV line, the vertical clearance between the conductors (wires) and machinery cannot exceed fifteen feet (15').

20130134: Easement:

For the Pearl-Sherwood No. 1 & 2, both of them 230KV, the vertical clearance between the conductors and machinery cannot exceed fifteen feet (15').

For the Pearl-Keeler No. 1 (500kV), the clearance between the conductors and machinery cannot exceed twenty feet (20').

3. The contractor shall not operate any machinery or equipment within the railroad right-of-way without a signed right-of-entry agreement with Portland and Western Railroad, Inc. The contractor shall supply a copy of signed agreement to the Engineer. For all work within railroad right-of-way the contractor shall hire a railroad flagger at no expense to the city.
4. Carsonite utility markers shall be installed by the contractor at locations designated by the Engineer. There will be 4 (CRM308401- 84" White) markers and 3 (CRM306001- 60" White) markers. Markers shall have a green decal stating "Caution Sewer Pipeline". The markers shall be installed by the contractor with a bury depth of 2.5 feet unless otherwise directed by the Engineer. The cost of the markers, decals and installation are incidental.

5. Fuel, hazardous material or any equipment containing fuel or hazardous material shall be located within the staging area at the end of each day with the exception of pipe bursting equipment installed within pull pits. All fueling or greasing of equipment shall occur inside the staging area.
6. The existing pipe flow in sanitary sewer west of MH-10 is approximately 0.50 CFS.
7. Bid Schedule Item #21 shall be changed from "15-Inch, PVC, C-905 Pipe" to "16-Inch, PVC, C-905, DR 18 Pipe". All references to "15-Inch, PVC, C-905 Pipe" in the Special Provisions and on the Contract Drawings shall be changed to "16-Inch, PVC, C-905, DR 18 Pipe".
8. The contractor has the option to use pipe bursting methods for pipe P4 in place of the open trenching method identified within the Contract Drawings. For bidding and payment purposes pipe P4 is included in Bid Schedule Item #21 – "16-Inch, PVC, C-905, DR 18 Pipe" and will be paid at the unit price for this Bid Item no matter which method the contractor selects for the installation of pipe P4. If selected, pipe bursting shall use an 18-Inch OD HDPE DR 17 pipe and be installed in compliance with the Special Provisions.
9. No pipe bursting through existing manholes will be allowed.

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	

**BID SCHEDULE
8073 – TONQUIN EMPLOYMENT AREA SANITARY UPGRADE**

Item No.	Spec Section	Description	Unit	Quantity	Unit Price	Unit Total Cost
PART 00200 -- TEMPORARY FEATURES AND APPURTENANCES						
1	00210	Mobilization	LS	1		
2	00225	Temporary Work Zone Traffic Control, Complete	LS	1		
3	00240	Temporary Drainage Facilities	LS	1		
4	00280	Erosion Control	LS	1		
5	00280	Sediment Fence	FOOT	3000		
6	00280	Tree Protection Fence	FOOT	1000		
PART 00300 -- ROADWORK						
7	00305	Construction Survey Work	LS	1		
8	00310	Removal of Structures and Obstructions	LS	1		
9	00310	Removal and Reinstallation of Fencing	LS	1		
10	00310	Removal and Reinstallation of Walls	LS	1		
11	00310	Abandoning Existing Structures	LS	1		
12	00320	Clearing and Grubbing	LS	1		
13	00330	Staging Area	LS	1		
14	00330	Construction Access	LS	1		
PART 00400 -- DRAINAGE & SEWERS						
15	00405	Dewatering	LS	1		
16	00405	Trench Foundation	FOOT	550		
17	00405	Boulder Removal from Trench or Pit	HOUR	40		
18	00412	18-Inch OD Pipe Burst	FOOT	989		
19	00445	12-Inch, PVC, ASTM 3034, SDR 35 Pipe	FOOT	968		
20	00445	15-Inch, PVC, ASTM 3034, SDR 35 Pipe	FOOT	541		
21	00445	16-Inch, PVC, C-905, DR 18 Pipe	FOOT	539		
22	00445	Video Inspection	FOOT	3038		
23	00470	Concrete Sanitary Sewer Manhole	EACH	13		
24	00470	Inside Drop	EACH	5		
25	00490	Sanitary Bypass Facilities	LS	1		

**BID SCHEDULE
 8073 – TONQUIN EMPLOYMENT AREA SANITARY UPGRADE**

Item No.	Spec Section	Description	Unit	Quantity	Unit Price	Unit Total Cost
26	00490	Connection to Existing Manhole	EACH	1		
27	00490	Rechanel Manhole Base	EACH	1		
28	00490	Reconnect Existing Sewer Lateral	EACH	5		
29	00490	Reconnect Existing Sewer Main	EACH	3		
30	00495	Driveway Restoration	LS	1		
PART 01000 -- RIGHT OF WAY DEVELOPMENT AND CONTROL						
31	01030	Mulching	LS	1		
32	01030	Permanent Seeding	LS	1		
33	01030	Wetland Seeding	LS	1		
34	01030	Riparian Seeding	LS	1		
35	01040	Tree, Douglas Fir, 6-Foot	EACH	15		
36	01040	Tree, Sweetgum, 2” Caliper	EACH	11		
37	01040	Tree, Vegetation Corridor, 2 Gal.	EACH	11		
38	01040	Transplanting Existing Shrubs	LS	1		
39	01040	Upland Shrubs	EACH	54		
40	01040	Plant Establishment, 2-Year, \$5,000 Min.	LS	1		
TOTAL BASE BID						

BASE BID WRITTEN IN WORDS:

_____ DOLLARS AND _____ CENTS

In the event of discrepancy, the amount in words shall dictate.

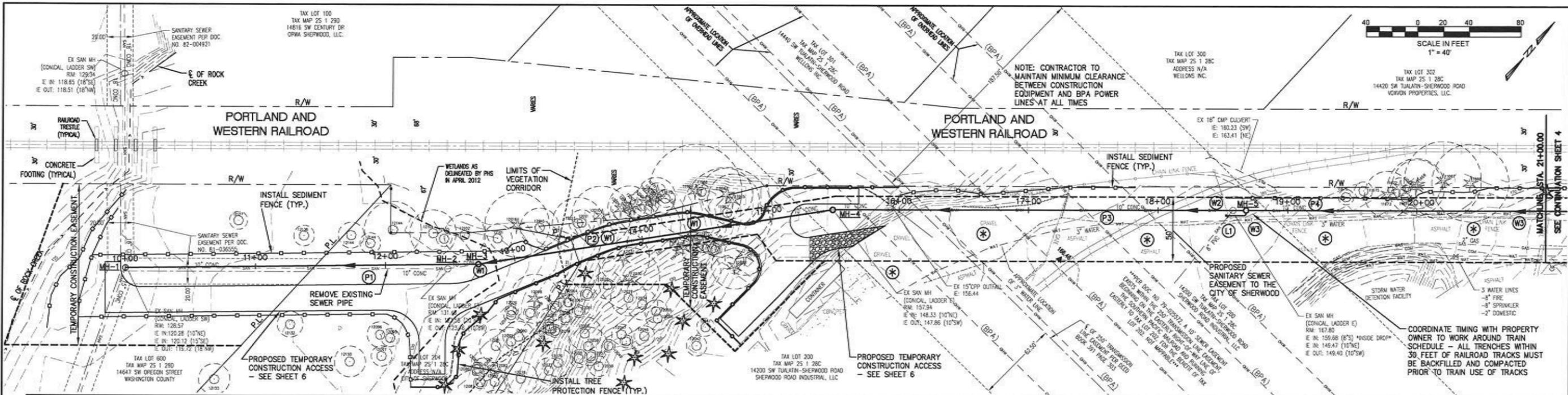
In accordance with the provisions of the Oregon Standard Specifications for Construction, 2008 Edition as modified by these bid documents, the undersigned Bidder submits the following Bid Schedule with the understanding that City reserves the right to increase, decrease, or completely eliminate quantities as set forth in 00120.20. Also, the Bidder offers to do the work, whether quantities area changed (increased or decreased) in accordance with 00195.20, or not changed, at the unit rate price stated in the following Bid Schedule:

 Signature of Authorized Agent

 Company Name

 Printed Name

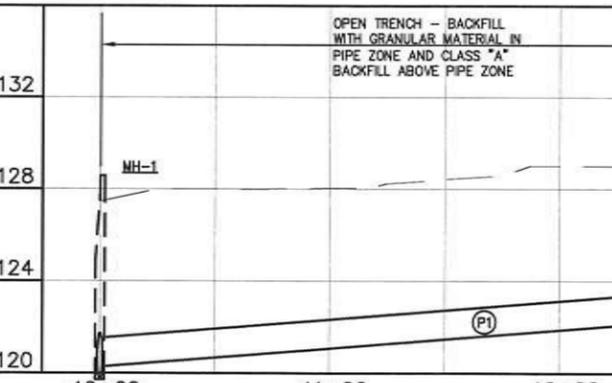
 Date



SANITARY KEY NOTES

- MH-1**
STA. 10+00.00
EX. SANITARY MANHOLE
RIM 128.57
EX. 15" I.E. IN (SE)=120.12
EX. 10" I.E. IN (NE)=120.28
NEW 15" I.E. IN (NE)=120.28
EX. 18" I.E. OUT (NW)=119.72
- RECHANNEL BASE FOR NEW 15"
PIPE FROM NORTHEAST
- INSTALL NEW WATERTIGHT
MANHOLE FRAME AND COVER
- INCIDENTAL TO BID ITEM
CONNECTION TO EXISTING MANHOLE
- MH-2**
REMOVE EX. SANITARY MANHOLE
AND BACKFILL WITH CLASS "A" BACKFILL
- MH-3**
STA. 12+71.85
INSTALL NEW SANITARY MANHOLE AND WATER
TIGHT FRAME AND COVER
RIM 132.20± (18" MIN. ABOVE FINISH GRADE)
15" I.E. IN (NE)=122.62
15" I.E. OUT (SW)=122.42
- MH-4**
STA. 15+48.66
REMOVE EX. SANITARY MANHOLE AND
INSTALL NEW SANITARY MANHOLE AND
WATER TIGHT FRAME AND COVER
RIM 157.80± (6" MIN. ABOVE FINISH GRADE)
18" I.E. IN (NE)=148.09
15" I.E. OUT (SW)=147.80
- MH-5**
EX. STA. 18+57.93
REMOVE EX. SANITARY MANHOLE
NEW STA. 18+67.93
INSTALL NEW SANITARY MANHOLE AND
WATER TIGHT FRAME AND COVER
RIM 167.10± (6" MIN. ABOVE FINISH GRADE)
8" I.E. IN (S)=158.80
INSTALL INSIDE DROP
15" I.E. IN (NE)=149.25
18" I.E. OUT (SW)=149.19

- NOTE: ALL NEW MANHOLE
CONES SHALL BE CONCENTRIC.
- NOTE: NEW PIPING AND MANHOLES
WILL NOT BE ALLOWED TO RECEIVE
SANITARY FLOW UNTIL TESTED,
CLEANED AND APPROVED.
- NOTE: THE COST OF INSTALLING
AND MAINTAINING ALL NECESSARY
SANITARY BYPASS FACILITIES IS
COVERED UNDER BID ITEM
"SANITARY BYPASS FACILITIES"
- NOTE: THE COST OF INSTALLING
AND MAINTAINING ALL STORM
DRAINAGE BYPASS FACILITIES
NECESSARY IS COVERED UNDER BID
ITEM "TEMPORARY DRAINAGE
FACILITIES"



SANITARY PROFILE
(STA. 10+00.00 TO STA. 21+00.00)
SCALE: 1" = 40' HORIZONTAL
1" = 4' VERTICAL

- (P1)** INSTALL 15" PVC D3034, SDR 35
(OPEN TRENCH)
L=267.85' S=0.80%
- (P2)** INSTALL 15" PVC D3034, SDR 35
(OPEN TRENCH)
L=272.81' S=9.23%
- (P3)** INSTALL 16" O.D. HDPE DR17
15.75" I.D. (PIPE BURST)
L=315.27' S=0.35%
- (P4)** INSTALL 16" PVC C905, DR18
(OPEN TRENCH)
L=299.80' S=0.35%
- (L1)** INSTALL 8" PVC D3034, SDR 35
L=±20' S=2.0% MIN.
+ TWO 8" 45° BENDS
+ 8" WYE + 8" C.O. TO F.G.
ONCE NEW PIPING HAS BEEN
TESTED AND APPROVED, CONNECT
TO EXISTING SANITARY LATERAL
WITH FERRO - TO BE PAID
UNDER BID ITEM "RECONNECT
EXISTING SEWER LATERAL"
- (W1)** CAUTION: SHALLOW CONCRETE PIPE -
INSTALL SANITARY BYPASS FROM MH-3
TO MH-1 PRIOR TO DRIVING OVER PIPE
- (W2)** TEMPORARILY RELOCATE FENCE AND GATE
AS NECESSARY. FENCING TO BE CLOSED
AND LOCKED AT THE END OF EACH WORK
DAY. GIVE SET OF LOCK KEYS TO STEVE
DURRELL. REINSTALL FENCING BACK TO
ORIGINAL LOCATION AFTER CONSTRUCTION.
- (W3)** CAUTION: EXISTING WATER LINE - SECURE
AS NECESSARY (COST INCIDENTAL) - DO
NOT DAMAGE. ANY DAMAGE TO EXISTING
WATER LINE WILL BE REPAIRED BY THE
CONTRACTOR AT HIS EXPENSE.
- (*)** DRIVEWAY TO BE USED FOR CONSTRUCTION
ACCESS. ANY DAMAGE TO EXISTING
DRIVEWAY SHALL BE REPAIRED/REPLACED,
AS DETERMINED BY THE ENGINEER, AT THE
CONTRACTOR'S EXPENSE.

**SANITARY SEWER
PLAN AND PROFILE
SOUTHWEST**

**8073-TONQUIN EMPLOYMENT AREA
SANITARY UPGRADE**

CITY OF SHERWOOD
ENGINEERING DEPARTMENT
22850 SW PINE STREET
SHERWOOD, OREGON 97140
PHONE: (503) 928-2309
FAX: (503) 625-0629
E-MAIL: engineering@sherwoodoregon.gov

LOCATED IN SECTIONS 29DA, 28CB AND 28CA, T2S, R1W, W.M.
IN THE CITY OF SHERWOOD, WASHINGTON COUNTY,
STATE OF OREGON

DESIGNED BY: []
DRAWN BY: []
CHECKED BY: []
FULL SIZE SCALE: []
DATE: MARCH 25, 2013

JOB NO: **8073**

SHEET NO: **3**

REVISED: []

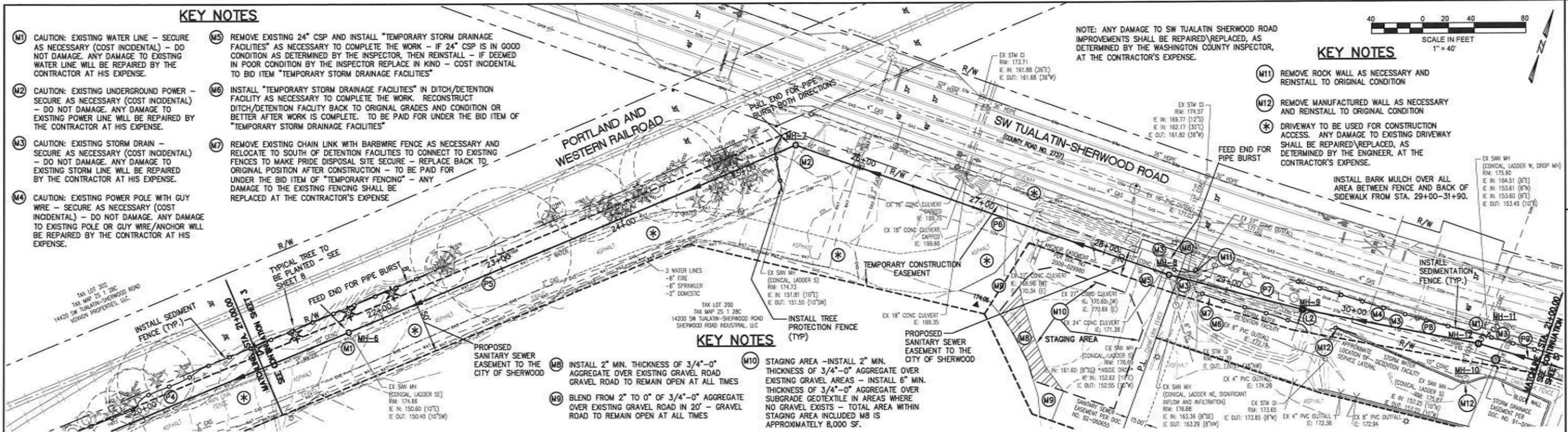
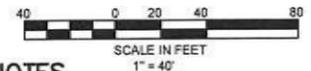
KEY NOTES

- (M1) CAUTION: EXISTING WATER LINE - SECURE AS NECESSARY (COST INCIDENTAL) - DO NOT DAMAGE. ANY DAMAGE TO EXISTING WATER LINE WILL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE.
- (M2) CAUTION: EXISTING UNDERGROUND POWER - SECURE AS NECESSARY (COST INCIDENTAL) - DO NOT DAMAGE. ANY DAMAGE TO EXISTING POWER LINE WILL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE.
- (M3) CAUTION: EXISTING STORM DRAIN - SECURE AS NECESSARY (COST INCIDENTAL) - DO NOT DAMAGE. ANY DAMAGE TO EXISTING STORM LINE WILL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE.
- (M4) CAUTION: EXISTING POWER POLE WITH GUY WIRE - SECURE AS NECESSARY (COST INCIDENTAL) - DO NOT DAMAGE. ANY DAMAGE TO EXISTING POLE OR GUY WIRE/ANCHOR WILL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE.
- (M5) REMOVE EXISTING 24" CSP AND INSTALL "TEMPORARY STORM DRAINAGE FACILITIES" AS NECESSARY TO COMPLETE THE WORK - IF 24" CSP IS IN GOOD CONDITION AS DETERMINED BY THE INSPECTOR, THEN REINSTALL - IF DEEMED IN POOR CONDITION BY THE INSPECTOR REPLACE IN KIND - COST INCIDENTAL TO BID ITEM "TEMPORARY STORM DRAINAGE FACILITIES"
- (M6) INSTALL "TEMPORARY STORM DRAINAGE FACILITIES" IN DITCH/DETENTION FACILITY AS NECESSARY TO COMPLETE THE WORK. RECONSTRUCT DITCH/DETENTION FACILITY BACK TO ORIGINAL GRADES AND CONDITION OR BETTER AFTER WORK IS COMPLETE. TO BE PAID FOR UNDER THE BID ITEM OF "TEMPORARY STORM DRAINAGE FACILITIES"
- (M7) REMOVE EXISTING CHAIN LINK WITH BARBWIRE FENCE AS NECESSARY AND RELOCATE TO SOUTH OF DETENTION FACILITIES TO CONNECT TO EXISTING FENCES TO MAKE PRIDE DISPOSAL SITE SECURE - REPLACE BACK TO ORIGINAL POSITION AFTER CONSTRUCTION - TO BE PAID FOR UNDER THE BID ITEM OF "TEMPORARY FENCING" - ANY DAMAGE TO THE EXISTING FENCING SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE

NOTE: ANY DAMAGE TO SW TUALATIN SHERWOOD ROAD IMPROVEMENTS SHALL BE REPAIRED/REPLACED, AS DETERMINED BY THE WASHINGTON COUNTY INSPECTOR, AT THE CONTRACTOR'S EXPENSE.

KEY NOTES

- (M11) REMOVE ROCK WALL AS NECESSARY AND REINSTALL TO ORIGINAL CONDITION
- (M12) REMOVE MANUFACTURED WALL AS NECESSARY AND REINSTALL TO ORIGINAL CONDITION
- (*) DRIVEWAY TO BE USED FOR CONSTRUCTION ACCESS. ANY DAMAGE TO EXISTING DRIVEWAY SHALL BE REPAIRED/REPLACED, AS DETERMINED BY THE ENGINEER, AT THE CONTRACTOR'S EXPENSE.



SANITARY KEY NOTES

- (M8) INSTALL 2" MIN. THICKNESS OF 3/4"-0" AGGREGATE OVER EXISTING GRAVEL ROAD GRAVEL ROAD TO REMAIN OPEN AT ALL TIMES
- (M9) BLEND FROM 2" TO 0" OF 3/4"-0" AGGREGATE OVER EXISTING GRAVEL ROAD IN 20' - GRAVEL ROAD TO REMAIN OPEN AT ALL TIMES
- (M10) STAGING AREA -INSTALL 2" MIN. THICKNESS OF 3/4"-0" AGGREGATE OVER EXISTING GRAVEL AREAS - INSTALL 6" MIN. THICKNESS OF 3/4"-0" AGGREGATE OVER SUBGRADE GEOTEXTILE IN AREAS WHERE NO GRAVEL EXISTS - TOTAL AREA WITHIN STAGING AREA INCLUDED M8 IS APPROXIMATELY 8,000 SF.

MH-6
STA. 21+71.73
REMOVE EX. SANITARY MANHOLE AND INSTALL NEW SANITARY MANHOLE AND WATER TIGHT FRAME AND COVER
RIM 175.2± (6" MIN. ABOVE FINISH GRADE)
18" I.E. IN (NE)=150.36
15" I.E. OUT (SW)=150.30

MH-7
STA. 25+47.18
REMOVE EX. SANITARY MANHOLE AND INSTALL NEW SANITARY MANHOLE AND WATER TIGHT FRAME AND COVER
RIM 174.70± (6" MIN. ABOVE FINISH GRADE)
18" I.E. IN (E)=151.57
18" I.E. OUT (SW)=151.31

MH-8
STA. 28+53.49
REMOVE EX. SANITARY MANHOLE AND INSTALL NEW SANITARY MANHOLE AND WATER TIGHT FRAME AND COVER
RIM 175.00± (6" MIN. ABOVE FINISH GRADE)
8" I.E. IN (SE) = 161.60
INSTALL INSIDE DROP
15" I.E. IN (E)=152.40
18" I.E. OUT (W)=152.31
- ABANDON EX. 10" CSP TO EAST TO MH-10 BY FILLING WITH CONTROLLED LOW STRENGTH MATERIALS TO BE PAID UNDER BID ITEM "ABANDONING EXISTING STRUCTURES"

MH-9
STA. 29+60.85
INSTALL NEW SANITARY MANHOLE AND WATER TIGHT FRAME AND COVER
RIM 178.00± (AT FINISH GRADE)
6" I.E. (S) FOR LATERAL (VERIFY ELEV. PRIOR TO ORDERING MANHOLE)
15" I.E. IN (E)=152.69
15" I.E. OUT (W)=152.64

MH-10
STA. 30+95.53, 28.4' RT.
ONCE NEW SANITARY SYSTEM IS TESTED, APPROVED AND IN SERVICE, REMOVE FRAME, COVER AND MANHOLE SECTIONS A MINIMUM OF 3 FEET BELOW GROUND SURFACE
- FILL MANHOLE WITH NATIVE MATERIAL (NO ROCKS LARGER THAN 6") AND COMPACT TO 90% MAX. DENSITY OF AASHTO T-99 TEST METHOD
- INSTALL SALVAGED TOPSOIL IN THE UPPER 6 INCHES

MH-11
STA. 31+01.21, 18.0' LT.
- ABANDON EXISTING 8" CSP TO EAST TO MH-14 BY FILLING WITH CONTROLLED LOW STRENGTH MATERIALS
- FILL OUTSIDE DROP WITH CONTROLLED LOW STRENGTH MATERIALS
- GROUT UPPER AND LOWER 8" I.E.'S FROM THE EAST SHUT (WATERTIGHT)
- TO BE PAID FOR UNDER THE BID ITEM "ABANDONING EXISTING STRUCTURES"

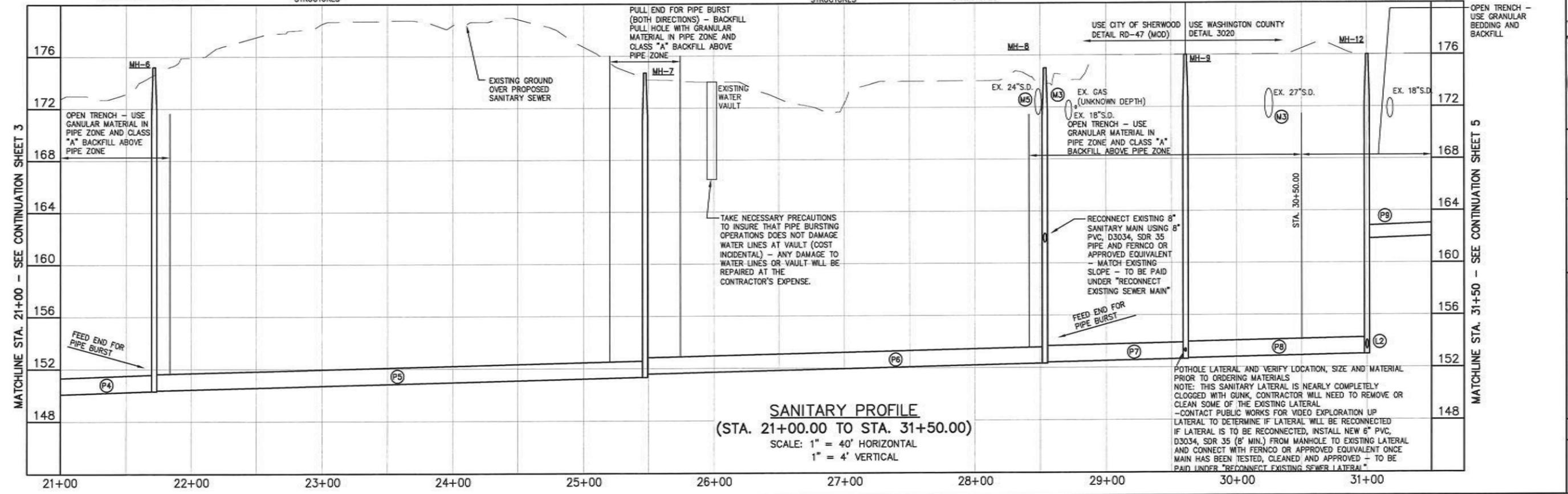
MH-12
STA. 31+00.14
INSTALL NEW SANITARY MANHOLE AND WATER TIGHT FRAME AND COVER
RIM 176.00± (AT FINISH GRADE)
8" I.E. IN (N)=153.38-CALC. (VERIFY)
12" I.E. IN (E)=161.83
INSTALL INSIDE DROP
15" I.E. OUT (W)=153.00
- ABANDON EX. 10" CSP TO SOUTH TO MH-10 BY FILLING WITH CONTROLLED LOW STRENGTH MATERIALS TO BE PAID UNDER BID ITEM "ABANDONING EXISTING STRUCTURES"

- (P4) INSTALL 16" PVC C905, DR18 (OPEN TRENCH)
L=299.80' S=0.35%
- (P5) INSTALL 18" O.D. HDPE DR17 15.75" I.D. (PIPE BURST)
L=371.45' S=0.28%
- (P6) INSTALL 18" O.D. HDPE DR17 15.75" I.D. (PIPE BURST)
L=302.31' S=0.24%
- (P7) INSTALL 16" PVC C905, DR18 (OPEN TRENCH)
L=103.36' S=0.23%

- (P8) INSTALL 16" PVC C905, DR18 (OPEN TRENCH)
L=135.29' S=0.23%
- (P9) INSTALL 12" PVC D3034, SDR 35 (OPEN TRENCH)
L=192.74' S=0.40%
- (L2) INSTALL 8" PVC D3034, SDR 35 L=5' S=MATCH EXISTING SLOPE ONCE NEW PIPING HAS BEEN TESTED AND APPROVED, CONNECT TO EXISTING SANITARY LATERAL WITH FERNCO - TO BE PAID UNDER BID ITEM "RECONNECT EXISTING SEWER MAIN"

NOTE: NEW PIPING AND MANHOLES WILL NOT BE ALLOWED TO RECEIVE SANITARY FLOW UNTIL TESTED, CLEANED AND APPROVED.
NOTE: THE COST OF INSTALLING AND MAINTAINING ALL NECESSARY SANITARY BYPASS FACILITIES IS COVERED UNDER BID ITEM "SANITARY BYPASS FACILITIES"
NOTE: THE COST OF INSTALLING AND MAINTAINING ALL STORM DRAINAGE BYPASS FACILITIES NECESSARY IS COVERED UNDER BID ITEM "TEMPORARY DRAINAGE FACILITIES"

NOTE: ALL NEW MANHOLE CONES SHALL BE CONCENTRIC.



SANITARY PROFILE
(STA. 21+00.00 TO STA. 31+50.00)
SCALE: 1" = 40' HORIZONTAL
1" = 4' VERTICAL

POTHOLE LATERAL AND VERIFY LOCATION, SIZE AND MATERIAL PRIOR TO ORDERING MATERIALS
NOTE: THIS SANITARY LATERAL IS NEARLY COMPLETELY CLOGGED WITH GUNK, CONTRACTOR WILL NEED TO REMOVE OR CLEAN SOME OF THE EXISTING LATERAL
-CONTACT PUBLIC WORKS FOR VIDEO EXPLORATION UP LATERAL TO DETERMINE IF LATERAL WILL BE RECONNECTED IF LATERAL IS TO BE RECONNECTED, INSTALL NEW 6" PVC, D3034, SDR 35 (6" MIN.) FROM MANHOLE TO EXISTING LATERAL AND CONNECT WITH FERNCO OR APPROVED EQUIVALENT ONCE MAIN HAS BEEN TESTED, CLEANED AND APPROVED - TO BE PAID UNDER "RECONNECT EXISTING SEWER LATERAL"

SANITARY SEWER PLAN AND PROFILE WEST T-S ROAD

8073-TONQUIN EMPLOYMENT AREA SANITARY UPGRADE

LOCATED IN SECTIONS 29DA, 28CB AND 28CA, 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) 925-2300
FAX: (503) 623-0629
E-MAIL: engineering@sherwoodoregon.gov

EXPIRES: 12-31-13

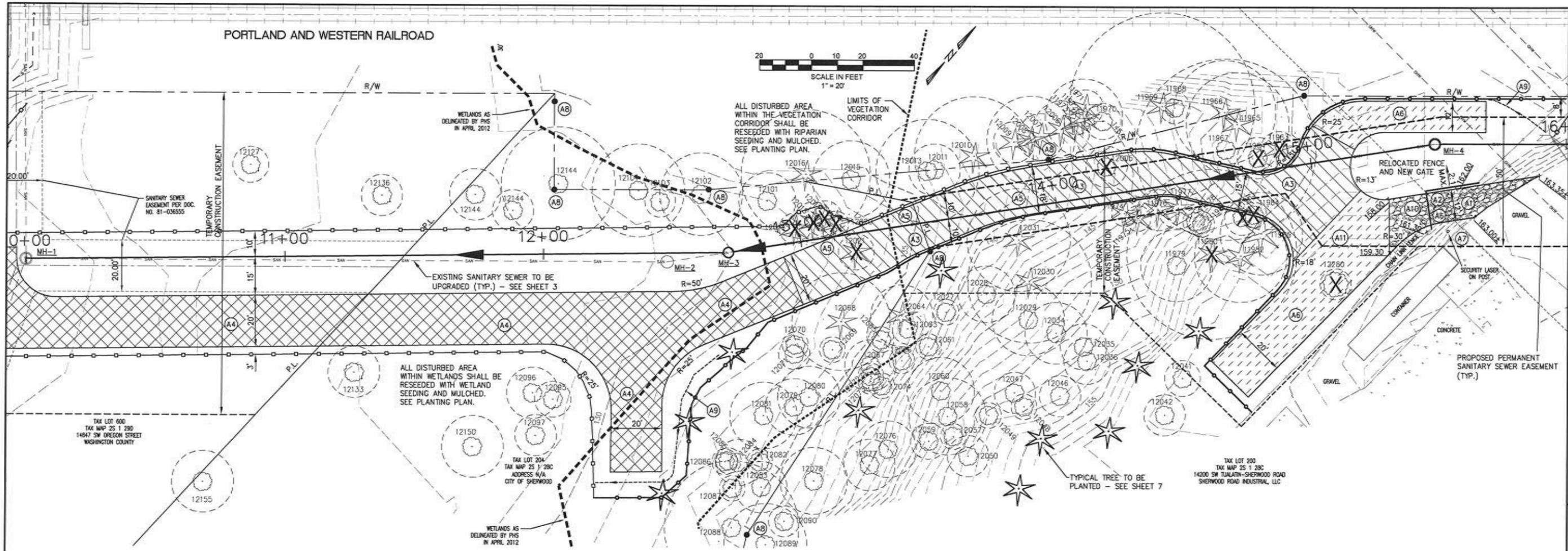
DESIGNED BY:	CC
DRAWN BY:	MS/CC
CHECKED BY:	JW
FULL SCALE:	AS NOTED
DATE:	MARCH 25, 2013

JOB NO. **8073**

SHEET **4**

OF **11**

REVISIONS



KEY NOTES

DISTURBED AREA

- (A1) REMOVE EXISTING FENCE AS NECESSARY AND INSTALL FENCE WITH 15-FOOT WIDE GATE (DETAIL SS-104 ON SHEET 10) WITH LOCK FOR ACCESS TO SOUTHWEST - GATE TO REMAIN IN PLACE AFTER CONSTRUCTION - TO BE PAID UNDER BID ITEM "REMOVAL AND REINSTALLATION OF FENCING"
- (A2) STRIP VEGETATION AND TOPSOIL TO GOOD FOUNDATION FOR FILL FOR TEMPORARY CONSTRUCTION ACCESS - CUT IN KEY AND BENCHES INTO EXISTING SOILS IN COMPLIANCE WITH APPENDIX J OF THE UNIFORM BUILDING CODED - CONTRACTOR IS RESPONSIBLE TO USE FILL MATERIAL THAT WILL COMPACT AND HAVE ADEQUATE STRENGTH FOR HIS VEHICLES/EQUIPMENT (EVEN IF IT REQUIRES IMPORTING MATERIAL). COST OF FILL/IMPORT TO BE INCIDENTAL TO BID ITEM "CONSTRUCTION ACCESS" - FILL TO BE SEEDED AND MULCHED AND REMAIN IN PLACE AFTER CONSTRUCTION
- (A3) **WOOD CHIP MULCH CONSTRUCTION ACCESS**
INSTALL 6" OF WOOD CHIP MULCH OVER EXISTING GROUND FOR PROTECTION OF TREE ROOTS. IF CONTRACTOR DEEMS THAT THIS WILL NOT PROVIDE ADEQUATE SUPPORT FOR VEHICLES/EQUIPMENT, CONTRACTOR SHALL SUBMIT DESIGN OF ACCESS TO ENGINEER FOR REVIEW WITH ARBORIST. TO BE PAID FOR UNDER THE BID ITEM OF "CONSTRUCTION ACCESS".
- (A4) **STRUCTURAL CONSTRUCTION ACCESS**
DO NOT REMOVE VEGETATION AND TOPSOIL - INSTALL TENSAR BX-1200 WITH 16" OF COMPACTED 1-1/2" MINUS COMPACTED CRUSHED ROCK - OTHER CONSTRUCTION ACCESS DESIGNS MAY BE USED (TIMBER MATS, STEEL PLATES, ETC.) - THE ABOVE CONSTRUCTION ACCESS PAVEMENT SECTION IS FROM PREVIOUS PROJECTS IN WETLANDS. THE CITY OF SHERWOOD DOES NOT CERTIFY THAT THE SECTION IS ADEQUATE FOR THE CONDITIONS AT THIS SITE. CONTRACTOR TO VERIFY STRENGTH OF ACCESS ROAD IS ADEQUATE FOR VEHICLES/EQUIPMENT. CITY OF SHERWOOD IS NOT LIABLE FOR ANY PROBLEMS DUE TO CONTRACTOR NOT INSTALLING ADEQUATE STRUCTURE TO SUPPORT CONSTRUCTION EQUIPMENT. CONSTRUCTION ACCESS TO BE REMOVED AFTER CONSTRUCTION. TO BE PAID FOR UNDER THE BID ITEM OF "CONSTRUCTION ACCESS".

- (A5) CAUTION: SHALLOW CONCRETE PIPE - INSTALL SANITARY BYPASS FACILITIES FROM MH-4 TO MH-1 PRIOR TO DRIVING OVER PIPE TO BE PAID FOR UNDER THE BID ITEM "SANITARY BYPASS FACILITIES"
- (A6) **NATIVE CONSTRUCTION ACCESS**
CONTRACTOR MAY USE NATIVE GROUND FOR CONSTRUCTION ACCESS. IF CONTRACTOR DEEMS THAT THIS WILL NOT PROVIDE ADEQUATE SUPPORT FOR VEHICLES/EQUIPMENT, CONTRACTOR MAY USE IMPORTED MATERIAL OR OTHER METHODS FOR CONSTRUCTION ACCESS TO THE APPROVAL OF THE ENGINEER. TO BE PAID FOR UNDER THE BID ITEM OF "CONSTRUCTION ACCESS".
- (A7) DO NOT DRIVE ON EXISTING CONCRETE - DAMAGED CONCRETE SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE
- (A8) EXISTING IRON ROD - DO NOT DISTURB - ANY ROD DISTURBED BY THE CONTRACTOR OR SUBCONTRACTOR SHALL BE REPLACED BY AN OREGON LICENSED SURVEYOR AT THE CONTRACTOR'S EXPENSE (INCLUDING FILING FEE).
- (A9) INSTALL TEMPORARY DITCH OR DRAINAGE FACILITIES AS NECESSARY TO DRAIN RUNOFF - FILL IN AND MITIGATE TEMPORARY DITCH AFTER CONSTRUCTION - INCIDENTAL TO BID ITEM "TEMPORARY DRAINAGE FACILITIES" - EXCEPT PLANTINGS
- (A10) INSTALL GRAVEL CONSTRUCTION ENTRANCE. REMOVE ONCE CONSTRUCTION IS COMPLETE. TO BE PAID FOR UNDER THE BID ITEM OF "CONSTRUCTION ACCESS". INSTALL FILL TO BLEND FROM GRAVEL TO FILL SURFACE ONCE GRAVEL CONSTRUCTION ENTRANCE IS REMOVED. RESEED AND MULCH.
- (A11) REMOVE BOULDERS AND LARGE STUMP AS NECESSARY. (COST IS INCIDENTAL)

NOTE: FUEL, HAZARDOUS MATERIAL OR ANY EQUIPMENT CONTAINING FUEL OR HAZARDOUS MATERIAL SHALL BE LOCATED WITHIN THE STAGING AREA AT THE END OF EACH DAY WITH THE EXCEPTION OF PIPE BURSTING EQUIPMENT INSTALLED WITHIN PULL PITS. ALL FUELING OR GREASING OF EQUIPMENT SHALL OCCUR INSIDE THE STAGING AREA.

NOTE: SEE PLANTING PLAN FOR SEEDING AND PLANTING REQUIREMENTS

NOTE: ALL NON-PAVED, NON-GRAVELLED DISTURBED AREAS SHALL BE MULCHED.

DISTURBED WETLAND AREA SHOWN ON PLAN = ±0.36 ACRES
 DISTURBED VEGETATED CORRIDOR AREA SHOWN ON PLAN = ±0.09 ACRES

ACCESS ROAD PLAN

**8073-TONQUIN EMPLOYMENT AREA
SANITARY UPGRADE**

LOCATED IN SECTIONS 28DA, 28CB AND 28CA, T2S, R1W, W1M, IN THE CITY OF SHERWOOD, WASHINGTON COUNTY, STATE OF OREGON

**CITY OF SHERWOOD
ENGINEERING DEPARTMENT
22500 SW PINE STREET
SHERWOOD, OREGON 97140**

PHONE: (503) 925-2309
 FAX: (503) 625-0629
 E-MAIL: engineering@sherwoodoregon.gov

PROFESSIONAL ENGINEER
 JAMES M. WATSON
 OREGON LICENSE NO. 1987
 CIVIL ENGINEER

EXPIRES: 12-31-13

DESIGNED BY:	CCC
DRAWN BY:	AS/CCC
CHECKED BY:	JMW
FULL SIZE SCALE:	AS NOTED
DATE:	MARCH 25, 2013

8073 - TONQUIN EMPLOYMENT AREA SANITARY UPGRADE - SHEETS - ACCESS

REVISIONS

3/29/13	1	
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JOB NO. **8073**

SHEET NO. **6**

OF **11**