PROPOSED

2017 MARINA WAY PATH PROJECT

FOR THE

KLICKITAT COUNTY PORT DISTRICT No. 1

JUNE 2017

SHEET INDEX

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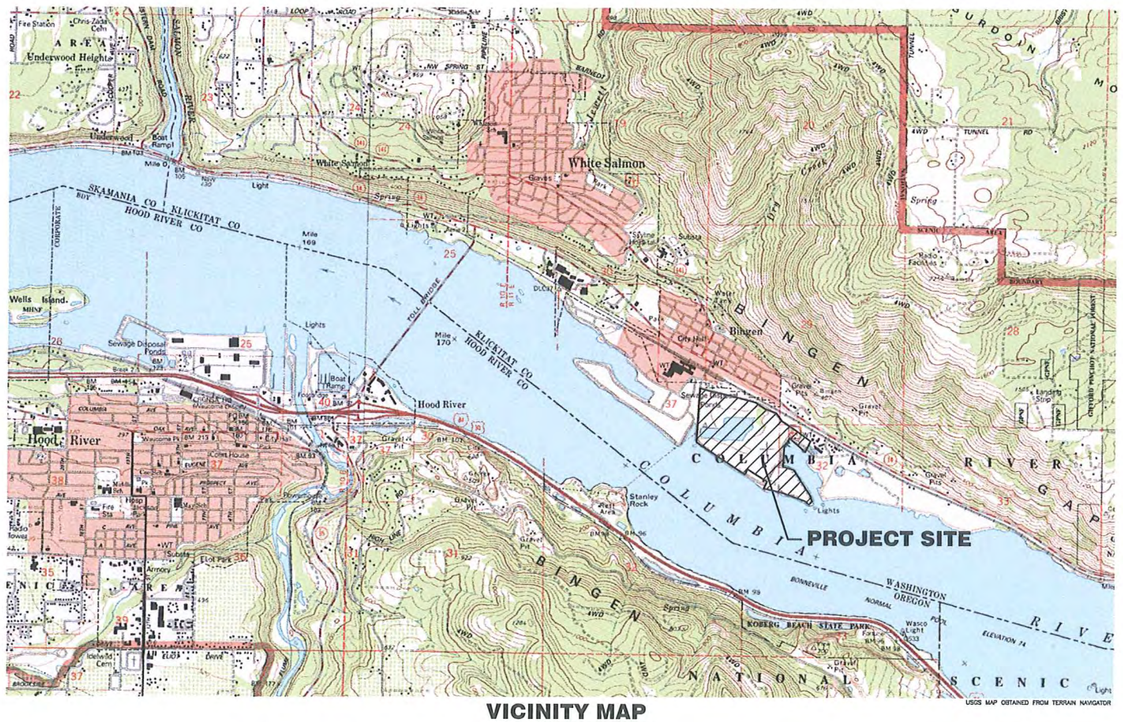


VICINITY MAP

APPROXIMATE SCALE 1"=2,000'

USGS MAP OBTAINED FROM TERRAIN NAVIGATOR

OWNER:

KLICKITAT COUNTY PORT DISTRICT NO. 1
154 EAST BINGEN POINT WAY, STE. A
BINGEN, WA 98605
PH: 509-493-1655
FX: 509-493-4257
MARC THORNSBURY, EXECUTIVE DIRECTOR

ENGINEER:

TENNESON ENGINEERING CORP.
3775 CRATES WAY
THE DALLES, OR. 97058
PH. 541-296-9177
FAX 541-296-6657
DARRIN ECKMAN, PROJECT MANAGER
KEVIN CHRISMAN, PROJECT DESIGNER

SET No. _____

K:\!WORK ORDERS\15000\15092\DRAWINGS\15092_OsiteGrading.dwg

Design T.E.C. | Survey T.E.C. | DWG. No. K:\WORK ORDERS\15000\15092\DRAWINGS\15092_OSITEGRADING.DWG
Date 06/08/2017 | Drawn T.E.C.
Work Order No. 15092/14481 | Scale NONE

COVER SHEET
FOR THE
2017 MARINA WAY PATH PROJECT
BINGEN, KLICKITAT COUNTY, WASHINGTON

TENNESON ENGINEERING CORP.
CONSULTING ENGINEERS
3775 CRATES WAY
THE DALLES, OREGON 97058
PH. 541-296-9177 FAX 541-296-6657
PLOT DATE: 6/8/2017

FOR BID

1"
IF THIS BAR IS NOT ONE INCH, THEN ADJUST SCALES ACCORDINGLY

DARRIN O. ECKMAN
STATE OF WASHINGTON
37209
REGISTERED PROFESSIONAL ENGINEER
EX. DATE: 11/14/17

COVER

SHEET
C-000

Work Order No.
15092

GENERAL NOTES:

A) CONTRACTOR SHALL CONFORM TO ALL CONSTRUCTION PERMITS PROCURED BY THE OWNER.

B) CONTRACTOR TO PAY ALL TESTING COSTS. CONTRACTOR SHALL COORDINATE AND PAY ALL COSTS ASSOCIATED WITH CONNECTING TO EXISTING WATER, SANITARY SEWER AND STORM SEWER FACILITIES.

C) CONTRACTOR SHALL PROVIDE ALL BONDS AND INSURANCE REQUIRED BY PUBLIC AND/OR PRIVATE AGENCIES HAVING JURISDICTION.

D) ALL MATERIALS AND WORKMANSHIP FOR FACILITIES IN STREET RIGHT-OF-WAY OR EASEMENTS SHALL CONFORM TO APPROVING AGENCIES' CONSTRUCTION SPECIFICATIONS WHEREIN EACH HAS JURISDICTION, INCLUDING BUT NOT LIMITED TO THE COUNTY, WASHINGTON DEPARTMENT OF HEALTH (DOH) AND THE WASHINGTON DEPARTMENT OF ECOLOGY (DOE).

E) UNLESS OTHERWISE APPROVED BY THE JURISDICTION, CONSTRUCTION OF ALL PUBLIC FACILITIES SHALL BE DONE BETWEEN 7:00 AM. AND 5:00 P.M., MONDAY THROUGH FRIDAY.

F) THE CONTRACTOR SHALL PERFORM ALL WORK NECESSARY TO COMPLETE THE PROJECT IN ACCORDANCE WITH THE APPROVED CONSTRUCTION DRAWINGS INCLUDING SUCH INCIDENTALS AS MAY BE NECESSARY TO MEET APPLICABLE AGENCY REQUIREMENTS AND PROVIDE A COMPLETED PROJECT.

G) THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES A MINIMUM OF 48 BUSINESS HOURS (2 BUSINESS DAYS) PRIOR TO START OF CONSTRUCTION AND COMPLY WITH ALL OTHER REQUIREMENTS OF THE SERVING UTILITIES.

H) ANY INSPECTION BY THE OWNER OR OTHER AGENCIES SHALL NOT, IN ANY WAY, RELIEVE THE CONTRACTOR FROM ANY OBLIGATION TO PERFORM THE WORK IN STRICT COMPLIANCE WITH THE CONTRACT DOCUMENTS, APPLICABLE CODES AND AGENCY REQUIREMENTS.

I) CONTRACTOR SHALL ERECT AND MAINTAIN BARRICADES, WARNING SIGNS, TRAFFIC CONES PER LOCAL REQUIREMENTS IN ACCORDANCE WITH THE MUTCD (WASHINGTON AMENDMENTS). ACCESS TO DRIVEWAYS SHALL BE MAINTAINED AT ALL TIMES. ALL TRAFFIC CONTROL MEASURES SHALL BE APPROVED AND IN PLACE PRIOR TO ANY CONSTRUCTION ACTIVITY.

J) CONTRACTOR SHALL BE PROPERLY LICENSED BY THE APPROPRIATE STATE AGENCY.

K) ELEVATIONS ARE BASED ON AN ASSUMED DATUM AS SHOWN ON THE PLANS.

L) STATIONING IS BASED ON PRIMARY ALIGNMENT SHOWN.

EXISTING UTILITIES & FACILITIES:

A) THE CONTRACTOR SHALL MAINTAIN ONE COMPLETE SET OF APPROVED DRAWINGS ON THE CONSTRUCTION SITE AT ALL TIMES WHEREON HE WILL RECORD ANY APPROVED DEVIATIONS IN CONSTRUCTION FROM THE APPROVED DRAWINGS, AS WELL AS THE STATION LOCATIONS AND DEPTHS OF ALL EXISTING UTILITIES ENCOUNTERED. THESE FIELD RECORD DRAWINGS SHALL BE KEPT UP TO DATE AT ALL TIMES AND SHALL BE AVAILABLE FOR INSPECTION BY THE OWNER UPON REQUEST. FAILURE TO CONFORM TO THIS REQUIREMENT MAY RESULT IN DELAY OF PAYMENT AND/OR FINAL ACCEPTANCE OF THE PROJECT.

B) UPON COMPLETION OF CONSTRUCTION OF ALL NEW FACILITIES, CONTRACTOR SHALL SUBMIT A CLEAN SET OF FIELD RECORD DRAWINGS CONTAINING ALL RECORD DRAWINGS TO THE ENGINEER FOR USE IN THE PREPARATION OF RECORD DRAWINGS FOR SUBMITTAL TO THE OWNER. ALL INFORMATION SHOWN ON THE CONTRACTORS FIELD RECORD DRAWINGS SHALL BE SUBJECT TO VERIFICATION BY THE ENGINEER. IF SIGNIFICANT ERRORS OR DEVIATIONS ARE NOTED BY THE ENGINEER, AN AS-BUILT SURVEY PREPARED AND STAMPED BY A REGISTERED PROFESSIONAL LAND SURVEYOR AND/OR QUALIFIED ENGINEER SHALL BE COMPETED AT THE CONTRACTOR'S EXPENSE.

C) THE LOCATION AND DESCRIPTIONS OF EXISTING UTILITIES SHOWN ON THE DRAWING, ARE COMPILED FROM AVAILABLE RECORDS AND/OR FIELD SURVEYS. THE ENGINEER OR UTILITY COMPANIES DO NOT GUARANTEE THE ACCURACY OR THE COMPLETENESS OF SUCH RECORDS. CONTRACTOR SHALL FIELD VERIFY LOCATIONS AND SIZES OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.

D) THE CONTRACTOR SHALL LOCATE AND MARK ALL EXISTING PROPERTY AND STREET MONUMENTS PRIOR TO CONSTRUCTION. ANY MONUMENTS DISTURBED DURING CONSTRUCTION OF THE PROJECT SHALL BE REPLACED BY A REGISTERED LAND SURVEYOR AT THE CONTRACTORS EXPENSE.

E) CONTRACTOR SHALL FIELD VERIFY LOCATION AND DEPTH OF ALL EXISTING UTILITIES WHERE NEW FACILITIES CROSS. CONTRACTOR SHALL BE RESPONSIBLE FOR EXPOSING POTENTIAL UTILITY CONFLICTS FAR ENOUGH AHEAD OF CONSTRUCTION TO MAKE NECESSARY GRADE MODIFICATIONS WITHOUT DELAYING THE WORK. IF GRADE MODIFICATION IS NECESSARY, CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER, AND THE DESIGN ENGINEER SHALL OBTAIN APPROVAL PRIOR TO CONSTRUCTION. ALL UTILITY CROSSINGS SHALL BE POTHOLED AS NECESSARY PRIOR TO EXCAVATING OR BORING TO ALLOW THE CONTRACTOR TO PREVENT GRADE OR ALIGNMENT CONFLICTS.

F) ALL FACILITIES SHALL BE MAINTAINED IN-PLACE BY THE CONTRACTOR UNLESS OTHERWISE SHOWN OR DIRECTED. CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO SUPPORT, MAINTAIN, OR OTHERWISE PROTECT EXISTING UTILITIES AND OTHER FACILITIES AT ALL TIMES DURING CONSTRUCTION. CONTRACTOR TO LEAVE EXISTING FACILITIES IN AN EQUAL OR BETTER-THAN-ORIGINAL CONDITION AND TO THE SATISFACTION OF THE ENGINEER.

G) UTILITIES OR INTERFERING PORTIONS OF UTILITIES THAT ARE ABANDONED IN PLACE SHALL BE REMOVED BY THE CONTRACTOR TO THE EXTENT NECESSARY TO ACCOMPLISH THE WORK. THE CONTRACTOR SHALL PLUG THE REMAINING EXPOSED ENDS OF ABANDONED UTILITIES.

H) CONTRACTOR SHALL REMOVE ALL EXISTING SIGNS, MAILBOXES, FENCES, LANDSCAPING, ETC., AS REQUIRED TO AVOID DAMAGE DURING CONSTRUCTION AND REPLACE THEM TO EXISTING OR BETTER CONDITION.

I) THE CONTRACTOR SHALL BE RESPONSIBLE FOR MANAGING CONSTRUCTION ACTIVITIES TO ENSURE THAT PUBLIC STREETS AND RIGHT-OF-WAYS ARE KEPT CLEAN OF MUD, DUST OR DEBRIS. DUST ABATEMENT SHALL BE MAINTAINED BY ADEQUATE WATERING OF THE SITE BY THE CONTRACTOR.

GRADING, PAVING & DRAINAGE:

A) UNLESS OTHERWISE NOTED, ALL GRADING, ROCKING AND PAVING TO CONFORM TO WSDOT/APAWA STANDARD SPECIFICATIONS FOR ROADS, BRIDGES AND MUNICIPAL CONSTRUCTION, CURRENT EDITION.

B) CLEAR AND GRUB WITHIN WORK LIMITS ALL SURFACE VEGETATION, TREES, STUMPS, BRUSH, ETC. DO NOT DAMAGE OR REMOVE TREES EXCEPT AS APPROVED BY THE ENGINEER SHOWN ON THE DRAWINGS. PROTECT ALL ROOTS TWO INCHES IN DIAMETER OR LARGER. (BY OWNER)

C) STRIP WORK LIMITS, REMOVING ALL ORGANIC MATTER, WHICH CANNOT BE COMPACTED INTO A STABLE MASS. ALL TREES, BRUSH AND DEBRIS ASSOCIATED WITH CLEARING, STRIPPING OR GRADING SHALL BE REMOVED AND STOCKPILED AT A LOCATION DETERMINED BY OWNER.

D) IMMEDIATELY FOLLOWING STRIPPING OPERATIONS, COMPACT SUBGRADE TO 95% WITHIN THE PUBLIC RIGHT-OF-WAY (90% IN OTHER AREAS) OF THE MAXIMUM DRY DENSITY PER ASTM D698 TEST METHOD (STANDARD PROCTOR). SUBGRADES MUST BE INSPECTED AND APPROVED BY THE OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO PLACING EMBANKMENTS, ENGINEERED FILLS OR FINE GRADING FOR BASE ROCK.

E) ALL FILLS SHALL BE ENGINEERED EXCEPT FOR FILLS LESS THAN 18-INCHES IN DEPTH WHICH ARE LOCATED OUTSIDE THE PUBLIC RIGHT-OF-WAY, BUILDING PADS, PARKING LOTS OR OTHER AREAS TO BE IMPROVED. ENGINEERED FILLS SHALL BE CONSTRUCTED IN 6" LIFTS OVER APPROVED SUBGRADES. EACH LIFT SHALL BE COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY PER ASTM D698 TEST METHOD (STANDARD PROCTOR).

F) CRUSHED ROCK SHALL CONFORM TO WSDOT STANDARD SPECIFICATION FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION, CURRENT EDITION. COMPACT TO 95% OF THE MAXIMUM DRY DENSITY PER ASTM D698 TEST METHOD (STANDARD PROCTOR). WRITTEN COMPACTION TEST RESULTS FROM AN INDEPENDENT TESTING LABORATORY MUST BE RECEIVED BY THE OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO PLACING HMA PAVEMENT.

G) HMA PAVEMENT SHALL CONFORM TO WSDOT STANDARD SPECIFICATION FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION, CURRENT EDITION. MIX TO BE COMMERCIAL, DENSE GRADED MIX(½"), GRADE PG. 64-28. PAVEMENT SHALL BE COMPACTED TO MINIMUM OF 91% OF MAXIMUM DENSITY.

H) UNLESS OTHERWISE SHOWN ON THE DRAWINGS, STRAIGHT GRADES SHALL BE RUN BETWEEN ALL FINISH GRADE ELEVATIONS AND/OR FINISH CONTOUR LINES SHOWN.

I) FINISH PAVEMENT GRADES AT TRANSITION IN EXISTING PAVEMENT SHALL MATCH EXISTING PAVEMENT GRADES OR BE FEATHERED PAST JOINTS WITH EXISTING PAVEMENT AS REQUIRED TO PROVIDE A SMOOTH, FREE DRAINING SURFACE.

J) ALL EXISTING OR CONSTRUCTED MANHOLES, CLEANOUTS, MONUMENTS, GAS VALVES, WATER VALVES AND SIMILAR STRUCTURES SHALL BE ADJUSTED TO MATCH FINISH GRADES OF THE PAVEMENT, SIDEWALK, LANDSCAPED AREA OR MEDIAN STRIP WHEREIN THEY LIE. VERIFY THAT ALL VALVE BOXES AND RISERS ARE CLEAN AND CENTERED OVER THE OPERATION NUT. ADJUSTMENT AFTER PLACEMENT OF FINAL WEARING COURSE WILL NOT BE ALLOWED.

K) UNLESS OTHERWISE SHOWN ON THE DRAWINGS, NO CUT OR FILL SLOPES SHALL BE CONSTRUCTED STEEPER THAN 2H:1V.

L) OWNER SHALL SEED AND MULCH ALL EXPOSED SLOPES AND DISTURBED AREA, WHICH ARE NOT SCHEDULED TO BE LANDSCAPED.

M) TRENCH EXCAVATION, BEDDING AND BACKFILL SHALL BE IN ACCORDANCE WITH THE WSDOT STANDARD SPECIFICATION FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION, CURRENT EDITION.

TESTING AND INSPECTION:

A) THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT ALL REQUIRED OR NECESSARY INSPECTIONS ARE COMPLETED BY THE OWNER'S AUTHORIZED INSPECTORS PRIOR TO PROCEEDING WITH SUBSEQUENT WORK WHICH COVERS OR THAT IS DEPENDENT ON THE WORK TO BE INSPECTED. FAILURE TO OBTAIN NECESSARY INSPECTION(S) AND APPROVAL(S) SHALL RESULT IN THE CONTRACTOR BEING FULLY RESPONSIBLE FOR ALL PROBLEMS ARISING FROM UNINSPECTED WORK.

B) UNLESS OTHERWISE SPECIFIED, THE FOLLOWING TABLE OUTLINES THE MINIMUM TESTING SCHEDULE FOR THE PROJECT. THIS TESTING SCHEDULE IS NOT COMPLETE, AND DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF OBTAINING ALL NECESSARY INSPECTIONS FOR ALL WORK PERFORMED, REGARDLESS OF WHO IS RESPONSIBLE FOR PAYMENT.

REQUIRED TESTING AND FREQUENCY		Party Responsible for payment			
		Contractor		Others (See note 1)	
STREETS, PARKING LOTS. PADS, FILLS. ETC.					
SUBGRADE	1 TEST/4000 S.F/LIFT (2 MIN)	See note 2 & note 3	√		
BASEROCK	1 TEST/4000 S.F/LIFT	See note 2 & note 3	√		
ASPHALT	1 TEST/4000 S.F/LIFT (2 MIN)	See note 2	√		
PIPED UTILITIES, ALL					
TRENCH BACKFILL	1 TEST/200 FOOT TRENCH/LIFT (2 MIN)	See note 2	√		
WATER					
PRESSURE	PER AWWA REQUIREMENTS (TO BE WITNESSED BY ENGINEER OR APPROVING AGENCY)		√		
BACTERIAL WATER TEST	PER DHD/DOH	See note 2	√		
DISINFECTION	PER AWWA REQUIREMENTS		√		
SANITARY SEWER					
AIR TEST	PER CITY OR APWA WHICHEVER IS MORE STRINGENT	See note 4	√		
MANDREL	95% OF ACTUAL INSIDE DIAMETER		√		
TV INSPECTION	LINES MUST BE CLEANED PRIOR TO TV WORK		√		
MANHOLE	VACUUM TEST EACH MANHOLE, WITNESSED BY ENGINEER OR APPROVING AGENCY.	See note 2 & note 4	√		
STORM					
MANDREL	95% OF ACTUAL INSIDE DIAMETER		√		
TV INSPECTION	LINES MUST BE CLEANED PRIOR TO TV WORK		√		

NOTE 1: OTHERS REFERS TO OWNER. ENGINEER OR APPROVING AGENCY AS APPLICABLE. CONTRACTOR RESPONSIBLE FOR SCHEDULING TESTING. ALL TESTING MUST BE COMPLETED PRIOR TO PERFORMING SUBSEQUENT WORK.

NOTE 2: TESTING MUST BE PERFORMED BY AN APPROVED INDEPENDENT TESTING AGENCY.

NOTE 3: IN ADDITION TO IN PLACE DENSITY TESTING, THE SUBGRADE AND BASEROCK SHALL BE PROOF-ROLLED WITH A LOADED 10 YARD DUMP TRUCK PROVIDED BY THE CONTRACTOR. LOCATION AND PATTERN OF PROOF-ROLL TO BE AS DIRECTED BY THE OWNERS AUTHORIZED REPRESENTATIVE.

NOTE 4: CONTRACTOR MAY USE HYDROSTATIC TESTING IN LIEU OF VACUUM AND AIR TESTING.

PIPED UTILITIES:

A) ALL TAPPING OF EXISTING UTILITIES MUST BE DONE BY CONTRACTOR FORCES.

B) THE END OF ALL UTILITY STUBS SHALL BE MARKED WITH A 2X4 COLOR CODED AND WIRED TO PIPE STUB.

C) ALL NON-METALLIC WATER, SANITARY AND STORM SEWER PIPING SHALL HAVE AN ELECTRICALLY CONDUCTIVE INSULATED 14 GAUGE COPPER TRACER WIRE THE FULL LENGTH OF THE INSTALLED PIPE USING BLUE WIRE FOR WATER AND GREEN FOR STORM AND SANITARY PIPING. TRACER WIRE SHALL BE EXTENDED UP INTO ALL VALVE BOXES, AND MANHOLES AND CATCH BASINS. TRACER WIRE PENETRATIONS INTO MANHOLES SHALL BE WITHIN 18 INCHES OF THE RIM ELEVATION AND ADJACENT TO MANHOLE STEPS. THE TRACER WIRE SHALL BE TIED TO THE TOP MANHOLE STEP OR OTHERWISE SUPPORTED TO ALLOW RETRIEVAL FROM THE OUTSIDE OF THE MANHOLE. USE WATERPROOF FITTINGS AT ALL CONNECTIONS.

D) NO TRENCHES IN ROADS OR DRIVEWAYS SHALL BE LEFT IN AN OPEN CONDITION OVERNIGHT. ALL SUCH TRENCHES SHALL BE CLOSED BEFORE THE END OF EACH WORK DAY AND NORMAL TRAFFIC FLOWS RESTORED.

E) SANITARY SEWER LATERALS TO BE RUN TO EDGE OF R.O.W. AT 1/4" PER 12" SLOPE. LATERALS TO BE INSTALLED DOWNSTREAM OF MAINLINE CLEAN OUTS AND/OR MANHOLES. ALL CATCH BASINS TO HAVE 8" PVC. SDR-35 LATERALS. CATCH BASIN LOCATION MAY BE MODIFIED TO ACCOMMODATE LOW SPOTS CREATED DURING CONSTRUCTION. ENGINEER AND/OR CITY MAY REQUIRE ADDITIONAL CATCH BASINS TO BE PLACED AT LOW SPOTS CREATED DURING CONSTRUCTION.

F) CONTRACTOR TO MAKE MINOR ADJUSTMENT TO SERVICE LOCATIONS, WHERE NECESSARY, TO AVOID CONFLICT. MAINTAIN 5' MINIMUM SEPARATION BETWEEN STORM AND SANITARY AND 10' MIN. SEPARATION BETWEEN SANITARY AND WATER, 1' TO MANHOLES OR CATCH BASINS AND 5' BETWEEN MANHOLES AND CATCH BASINS. MAINTAIN 1' VERTICAL AND 2' HORIZONTAL SEPARATION BETWEEN COUNTY AND PRIVATE FRANCHISE UTILITY SERVICES AND 2' HORIZONTAL SEPARATION BETWEEN COUNTY UTILITIES IN A COMMON TRENCH.

PRIVATE UTILITIES:

A) UNLESS OTHERWISE SHOWN ON THE DRAWINGS OR APPROVED BY JURISDICTION HAVING AUTHORITY, ALL NEW PRIVATE UTILITIES (IRRIGATION, POWER, CABLE TV, TELEPHONE & GAS) SHALL BE INSTALLED UNDERGROUND. INSTALLATION OF PRIVATE UTILITIES IN A COMMON TRENCH WITH WATER, SANITARY SEWER OR STORM SEWER IS PROHIBITED.

B) CONTRACTOR SHALL COORDINATE POWER, TELEPHONE, AND CABLE TV COMPANY FOR LOCATION OF VAULTS, PEDESTALS, ETC. ALL ABOVE GRADE FACILITIES SHALL BE PLACED IN A LOCATION OUTSIDE THE PROPOSED SIDEWALK LOCATION.

C) POWER, TELEPHONE AND CATV TRENCHING AND CONDUITS SHALL BE INSTALLED PER UTILITY COMPANY REQUIREMENTS WITH PULL WIRE. CONTRACTOR SHALL VERIFY WITH UTILITY COMPANY FOR SIZE AND TYPE OF CONDUIT PRIOR TO CONSTRUCTION. ALL CHANGES IN DIRECTION OF UTILITY CONDUIT RUNS SHALL HAVE LONG RADIUS STEEL BENDS.

D) CONTRACTOR SHALL NOTIFY AND COORDINATE WITH PRIVATE UTILITY FOR RELOCATION OF POWER POLES, VAULTS, ETC.

E) ALL PRIVATE UTILITY STRUCTURES (VAULTS, PEDESTALS, LIGHT POLES., ETC.) SHALL BE SET A MINIMUM OF 1 FOOT FROM ANY PROPERTY CORNER OR SURVEY MONUMENT.

F) IRRIGATION WATERLINE TO BE FLUSHED AND PRESSURE TESTED TO 150 PSI FOR 60 MINUTES WITH NO LOSS OF PRESSURE

LINETYPE/SYMBOL LEGEND

MH
(E) SAN SEWER
PROPOSED SAN SEWER
(E) STORM SEWER
PROPOSED STORM SEWER
CATCH BASIN
CLEAN OUT
(E) WATER LINE
PROPOSED WATER LINE
FIRE HYDRANT
WATER VALVE
BLOW-OFF VALVE
WM = WATER METER
NATURAL GAS LINE
OVERHEAD TELEPHONE CABLE
UNDERGROUND TELEPHONE CABLE
FIBER OPTIC TELEPHONE CABLE
CABLE TELEVISION LINE
GRADE BREAK LINE
CATCH LINE
DITCH LINE
OVERHEAD ELECTRIC POWER LINE
UNDERGROUND ELECTRIC POWER LINE
(E) POWER POLE
(E) FENCE LINE
EDGE OF PAVEMENT
(E) GUARDRAIL OR CHAIN LINK FENCE
PROPERTY LINE

HATCH LEGEND

PROPOSED ASPHALT
EXISTING ASPHALT
EXISTING CONCRETE
LANDSCAPING
PROPOSED CONCRETE
EXISTING GRAVEL
EXISTING LANDSCAPING
EXISTING BUILDING
PROPOSED BUILDING

P POWER TRANSFORMER
EM = ELECTRIC METER
TELEPHONE PEDESTAL
GAS METER
(E) CONTOUR LINE
(E) INDEX CONTOUR LINE
PROPOSED FINISHED INDEX CONTOUR LINE
PROPOSED FINISHED CONTOUR LINE
99.5 (E) GROUND ELEVATION
99.5 FINISHED ELEVATION
TG = TOP OF GRAVEL ELEVATION
TC = TOP OF CURB ELEVATION
FOUND MONUMENTS, AS NOTED.
GUT = GUTTER ELEVATION AT PAVEMENT
TRW = TOP OF WALL
FG = FINISH GRADE
TP = TOP OF PAVEMENT ELEVATION (6" BELOW TOP OF CURB U.N.O.)
SG = SUBGRADE
OG = ORIGINAL GRADE

Design T.E.C. | Survey T.E.C.
DWG. No. K:\WORK ORDERS\15000\15092\DRAWINGS\15092_OSITEGRADING.DWG
Date 06/08/2017 | Drawn T.E.C.
Work Order No. 15092/14481 | Scale 1"= 20'

NOTES & LEGENDS
FOR THE
2017 MARINA WAY PATH PROJECT
BINGEN, KLICKITAT COUNTY, WASHINGTON

TENNESON ENGINEERING CORP.
CONSULTING ENGINEERS
3775 CRATES WAY
THE DALLES, OREGON 97058
PH. 541-296-9177 FAX 541-296-6657
PLOT DATE: 8/8/2017

FOR BID

1"
IF THIS BAR IS NOT ONE INCH, THEN ADJUST SCALES ACCORDINGLY

DARRIN D. ECKMAN
STATE OF WASHINGTON
57209
REGISTERED PROFESSIONAL ENGINEER
EX. DATE: 11/14/17

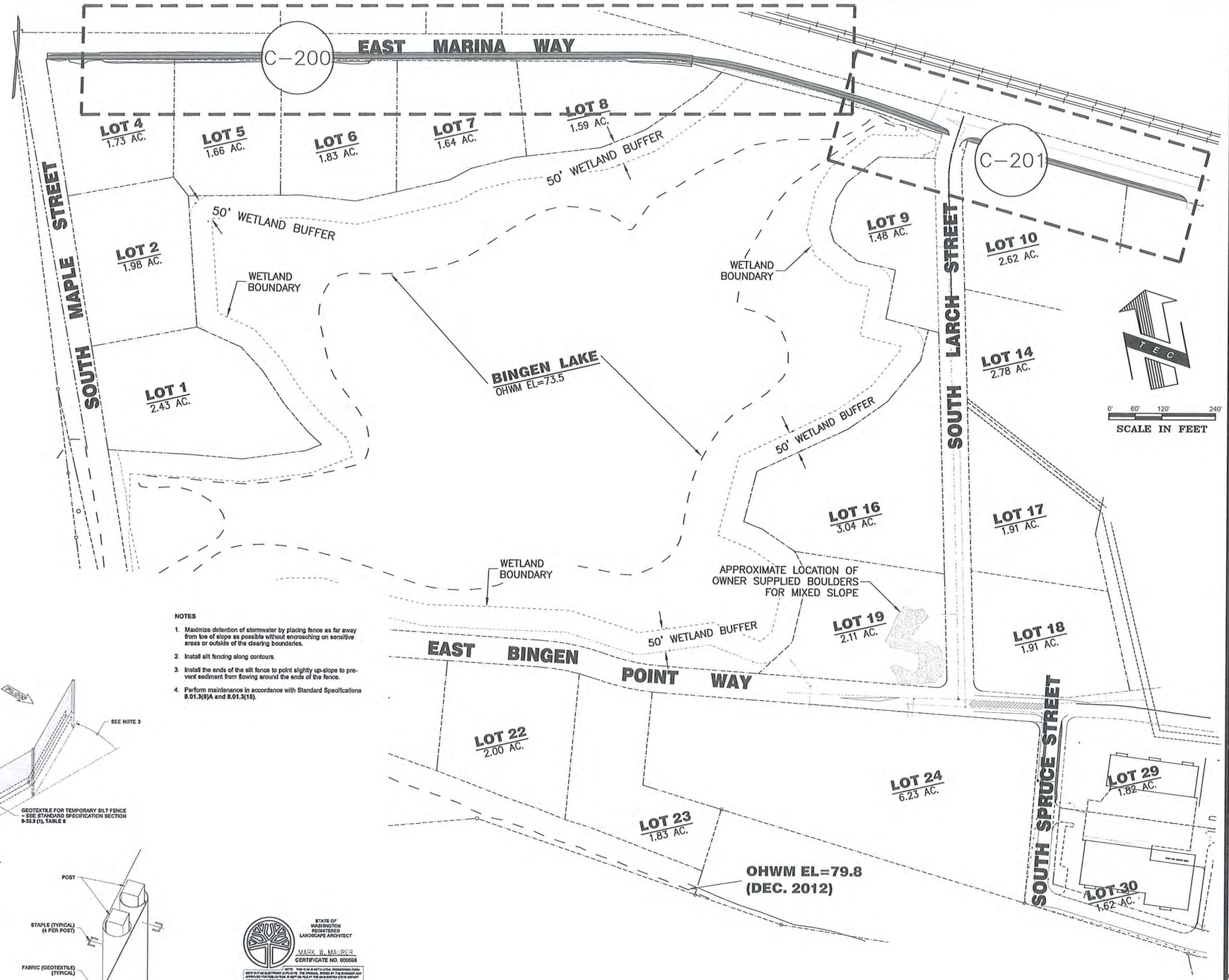
NOTES

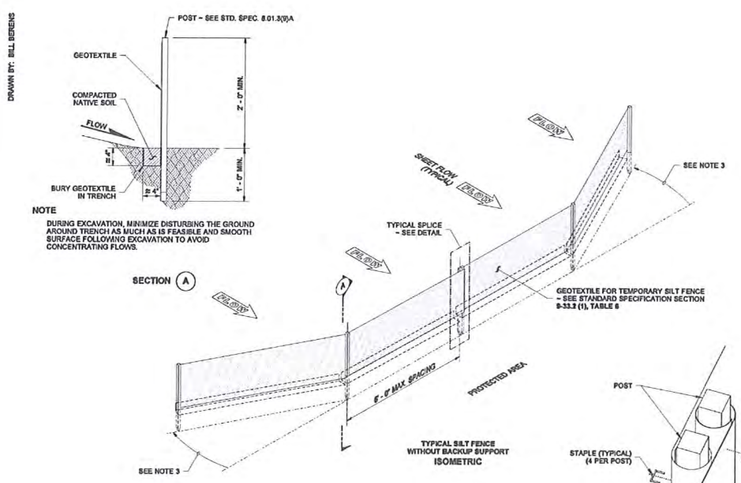
SHEET
C-001

Work Order No.
15092

EROSION CONTROL NOTES:

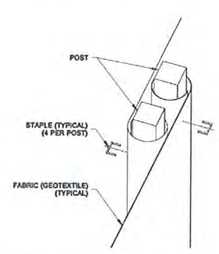
1. CONTRACTORS AND BUILDERS SHALL KEEP CUTTING AND CLEARING TO A MINIMUM AND WITHIN THE AREA UNDER CONSTRUCTION. EVERY EFFORT SHOULD BE MADE TO DISTURB AS LITTLE EXISTING VEGETATION AS POSSIBLE, AND TO REESTABLISH GOOD GROUND COVER AS SOON AS POSSIBLE AFTER GRADING.
2. SEEDING OF DISTURBED AREAS, SUCH AS CUTS, FILLS, AND STORAGE AREAS SHALL BE DONE AS SOON AS POSSIBLE AFTER USE OF THE AREA IS CONCLUDED, OR CONSTRUCTION IS FAR ENOUGH ALONG THAT THE AREA WILL NOT BE DISTURBED FURTHER.
3. IF AN AREA IS NOT, OR CANNOT BE SEEDED ADEQUATELY TO PROTECT IT FROM EROSION, THEN IT SHALL BE PROTECTED BY COVERING WITH SOME PROTECTIVE MATERIAL, SUCH AS MULCHES, STRAW, TARPS, PLASTIC, CHIPPED BRUSH, OR OTHER SUITABLE MATERIAL.
4. SILT FABRIC SHALL BE PLACED OVER THE CATCH BASIN INLETS SO THAT NO SEDIMENT WILL ACCUMULATE IN THE CATCH BASINS. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT–LADEN WATER INTO THE DOWNSTREAM SYSTEM.
5. WHERE SEEDING FOR TEMPORARY EROSION CONTROL IS REQUIRED, FAST GERMINATING GRASSES SHALL BE APPLIED AT AN APPROPRIATE RATE (E.G. ANNUAL OR PERENNIAL RYE APPLIED AT APPROXIMATELY 80 POUNDS PER ACRE). SEEDING OF CLEARED AREAS SHALL BE ACCOMPLISHED WITHIN SEVEN DAYS UNLESS OTHERWISE STABILIZED. TEMPORARY IRRIGATION MAY BE REQUIRED TO ESTABLISH AND MAINTAIN VEGETATION. ALL DISTURBED AREAS SHALL BE SEEDED.
6. THE CONTRACTOR SHALL INSPECT ROADS DAILY AND WASH AS NEEDED SO THAT NO SEDIMENT IS WASHED OR CARRIED OFF–SITE.
7. APPROVAL OF THIS EROSION/SEDIMENTATION CONTROL (ESC) PLAN DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT ROAD OR DRAINAGE DESIGN (E.G., SIZE AND LOCATION OF ROADS, PIPES, RESTRICTORS, CHANNELS, RETENTION FACILITIES, UTILITIES, ETC.)
8. THE IMPLEMENTATION OF THESE ESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED AND VEGETATION/LANDSCAPING IS ESTABLISHED.
9. THE ESC FACILITIES SHOWN IN THESE PLANS MUST BE CONSTRUCTED IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES, AND IN SUCH A MANNER AS TO INSURE THAT SEDIMENT AND SEDIMENT LADEN WATER DO NOT ENTER THE DRAINAGE SYSTEM, ROADWAYS, OR VIOLATE APPLICABLE WATER STANDARDS.
10. THE ESC FACILITIES SHOWN IN THESE PLANS ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND TO ENSURE THAT SEDIMENT AND SEDIMENT–LADEN WATER DO NOT LEAVE THE SITE.
11. THE ESC FACILITIES SHALL BE INSPECTED DAILY BY THE APPLICANT/CONTRACTOR AND MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING.
12. THE ESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH OR WITHIN THE 24 HOURS FOLLOWING A STORM EVENT.
13. STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES MAY BE REQUIRED TO INSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.
14. WATER WILL BE USED AS NEEDED FOR DUST CONTROL DURING CONSTRUCTION ACTIVITIES.
15. THE CONTRACTOR WILL BE RESPONSIBLE TO PROVIDE A CESCL INSPECTOR.





NOTES

1. Maximize detention of stormwater by placing fence as far away from toe of slope as possible without encroaching on sensitive areas or outside of the clearing boundaries.
2. Install silt fencing along contours.
3. Install the ends of the silt fence to point slightly up-slope to prevent sediment from flowing around the ends of the fence.
4. Perform maintenance in accordance with Standard Specifications 8.01.3(9)A and 8.01.3(15).



SPLICED FENCE SECTIONS SHALL BE CLOSE ENOUGH TOGETHER TO PREVENT SILT LADEN WATER FROM ESCAPING THROUGH THE FENCE AT THE OVERLAP. JOINING SECTIONS SHALL NOT BE PLACED IN LOW SPOTS OR IN SUMP LOCATIONS.

SPLICE DETAIL

STATE OF WASHINGTON REGISTERED LANDSCAPE ARCHITECT
MARK W. MAURER
CERTIFICATE NO. 000598

NOTE: THIS PLAN IS NOT A LEGAL ENGINEERING DOCUMENT UNTIL IT IS ELECTRONICALLY SEALED. THE ORIGINAL STORED AT THE ENGINEER AND APPROVED FOR PUBLICATION IS KEPT ON FILE AT THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION. A COPY MAY BE OBTAINED UPON REQUEST.

SILT FENCE

STANDARD PLAN I-30.15-00

SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION

Pasco Bakotich III 08-11-09

STATE DESIGN ENGINEER DATE

Washington State Department of Transportation

Design T.E.C. | Survey T.E.C.
DWG. No. K:\WORK DWGS\15000\15092\DRAWINGS\15092_SITEGRADING.DWG
Date 06/08/2017 | Drawn T.E.C.
Work Order No. 15092/14481 | Scale 1"= 200'

OVERALL PLAN

FOR THE

2017 MARINA WAY PATH PROJECT

BINGEN, KLICKITAT COUNTY, WASHINGTON

TENNESON ENGINEERING CORP.
CONSULTING ENGINEERS
3775 CRATES WAY
THE DALLES, OREGON 97058
PH. 541-296-9177 FAX 541-296-6657

PLOT DATE: 6/8/2017

FOR BID

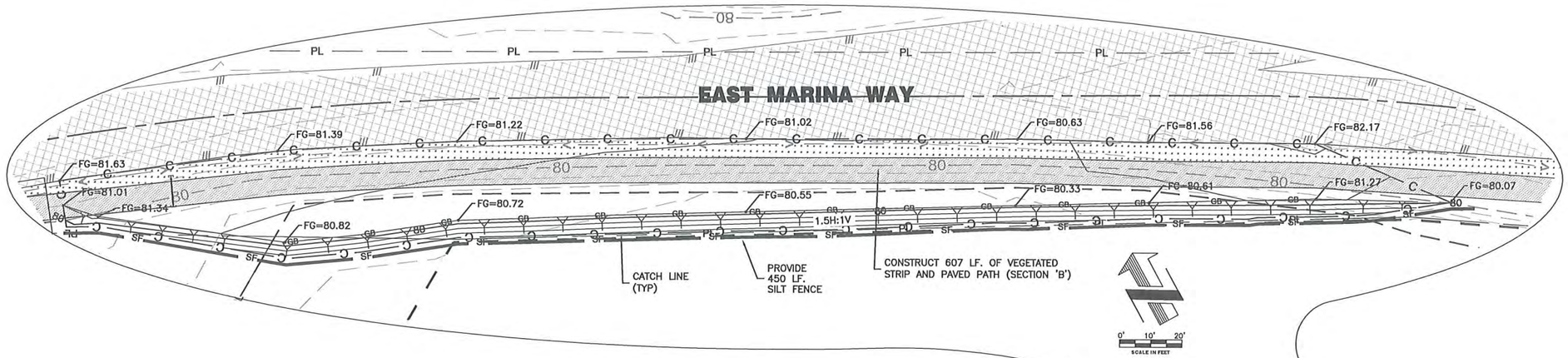
1"
IF THIS BAR IS NOT ONE INCH, THEN ADJUST SCALES ACCORDINGLY

DARRIN O. ECKMAN
STATE OF WASHINGTON
37209
REGISTERED PROFESSIONAL ENGINEER
11-14-17
EX. DATE: 11/14/17

OVERALL

SHEET
C-100

Work Order No.
15092

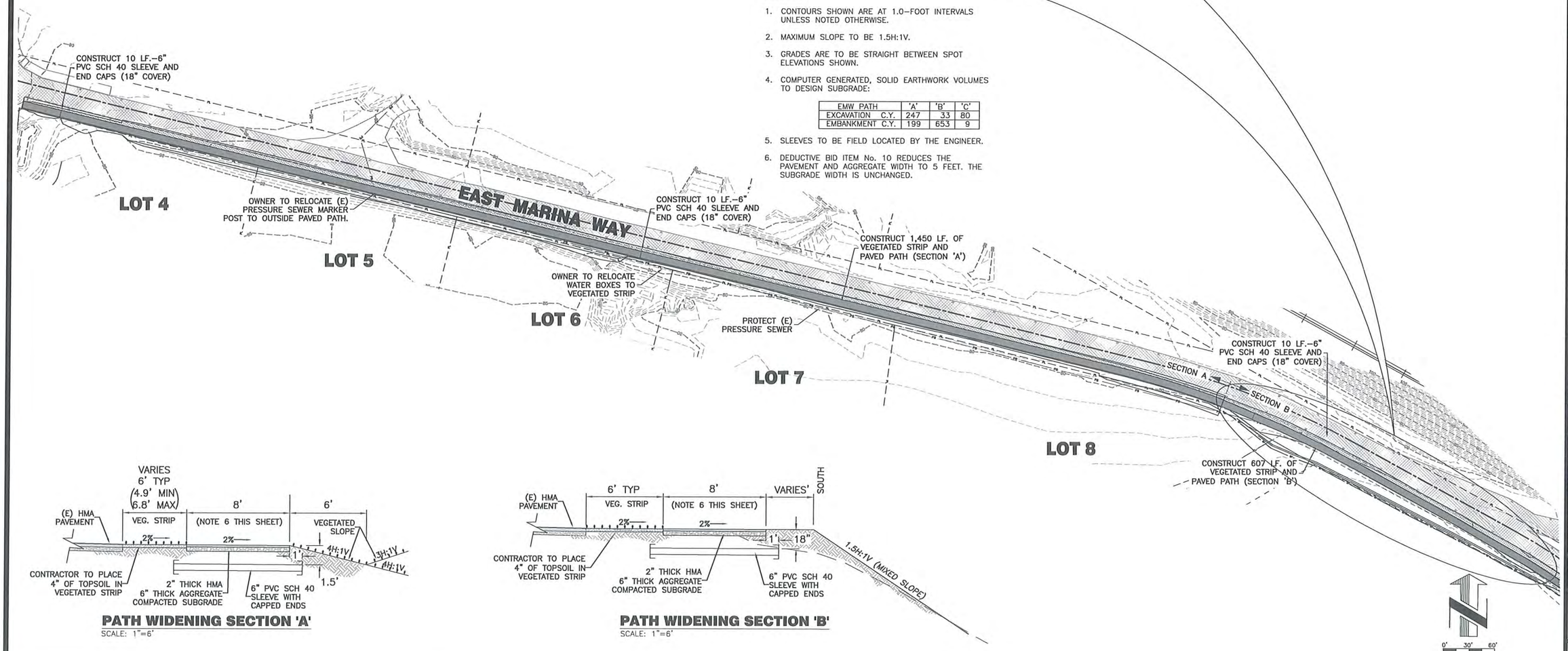


NOTES:

1. CONTOURS SHOWN ARE AT 1.0-FOOT INTERVALS UNLESS NOTED OTHERWISE.
2. MAXIMUM SLOPE TO BE 1.5H:1V.
3. GRADES ARE TO BE STRAIGHT BETWEEN SPOT ELEVATIONS SHOWN.
4. COMPUTER GENERATED, SOLID EARTHWORK VOLUMES TO DESIGN SUBGRADE:

EMW PATH	'A'	'B'	'C'
EXCAVATION C.Y.	247	33	80
EMBANKMENT C.Y.	199	653	9

5. SLEEVES TO BE FIELD LOCATED BY THE ENGINEER.
6. DEDUCTIVE BID ITEM No. 10 REDUCES THE PAVEMENT AND AGGREGATE WIDTH TO 5 FEET. THE SUBGRADE WIDTH IS UNCHANGED.



PATH WIDENING SECTION 'A'

SCALE: 1"=6'

PATH WIDENING SECTION 'B'

SCALE: 1"=6'

Design T.E.C. | Survey T.E.C.
DWG. No. K:\WORK DWGS\15000\15092\DRAWINGS\15092_SITEGRADING.DWG
Date 06/08/2017 | Drawn T.E.C.
Work Order No. 15092/14481 | Scale 1"= 20'

MARINA WAY PATH

FOR THE

2017 MARINA WAY PATH PROJECT

BINGEN, KLICKITAT COUNTY, WASHINGTON

TENNESON ENGINEERING CORP.
CONSULTING ENGINEERS
3775 CRATES WAY
THE DALLES, OREGON 97058
PH. 541-296-9177 FAX 541-296-6657

PLOT DATE: 6/8/2017

FOR BID

1"
IF THIS BAR IS NOT ONE INCH, THEN ADJUST SCALES ACCORDINGLY

DARRIN O. ECKMAN
STATE OF WASHINGTON
37209
REGISTERED PROFESSIONAL ENGINEER
EX. DATE: 11/14/17

EMW PATH

SHEET
C-200

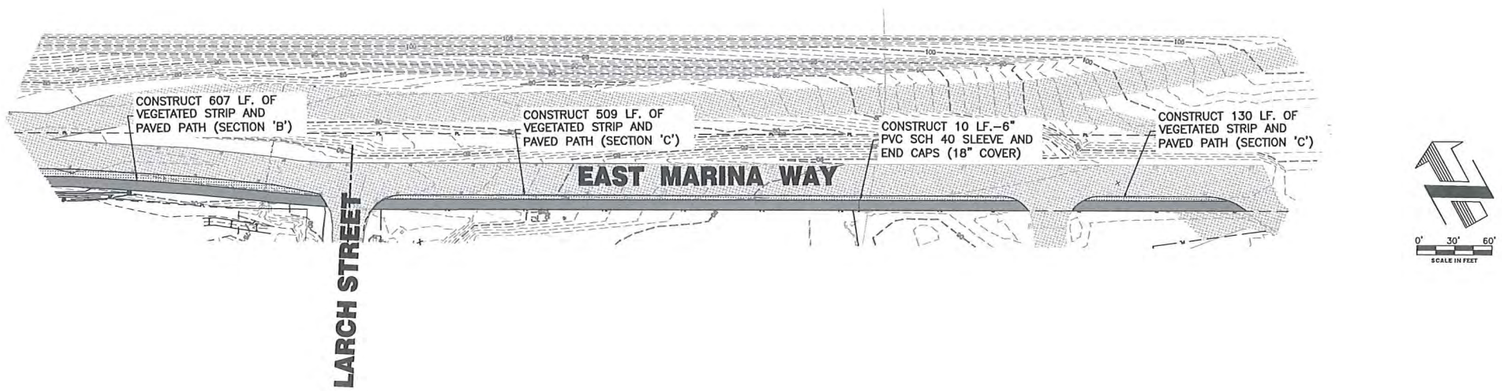
Work Order No.
15092

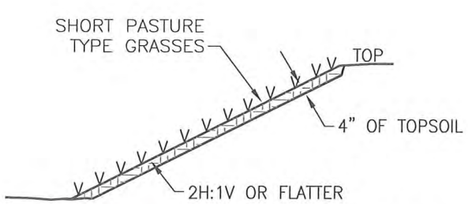
NOTES:

1. CONTOURS SHOWN ARE AT 1.0-FOOT INTERVALS UNLESS NOTED OTHERWISE.
2. MAXIMUM SLOPE TO BE 1.5H:1V.
3. GRADES ARE TO BE STRAIGHT BETWEEN SPOT ELEVATIONS SHOWN.
4. COMPUTER GENERATED, SOLID EARTHWORK VOLUMES TO DESIGN SUBGRADE:

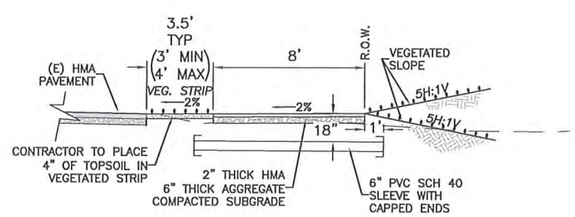
EMW PATH	'A'	'B'	'C'
EXCAVATION C.Y.	247	33	80
EMBANKMENT C.Y.	199	653	9

5. SLEEVES TO BE FIELD LOCATED BY THE ENGINEER.
6. DEDUCTIVE BID ITEM No. 9 DELETES SECTION 'C' (~639 LF. OF PATH EAST OF LARCH STREET).

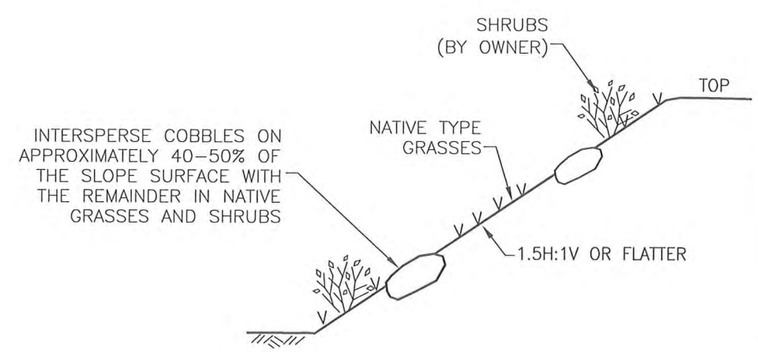




TYPICAL VEGETATED SLOPE
NO SCALE



PATH WIDENING SECTION 'C'
SCALE: 1"=6'
(SEE NOTE 6 THIS SHEET)



TYPICAL MIXED SLOPE
NO SCALE

Design T.E.C. | Survey T.E.C.
K:\WORK ORDERS\15000\15092\DRAWINGS\15092_CSITEGRADING.DWG
DWG. No.
Date 06/08/2017 | Drawn T.E.C.
Work Order No. 15092/14481 | Scale 1" = 20'

MARINA WAY PATH
FOR THE
2017 MARINA WAY PATH PROJECT
BINGEN, KLICKITAT COUNTY, WASHINGTON

TENNESON ENGINEERING CORP.
CONSULTING ENGINEERS
3775 CRATES WAY
THE DALLES, OREGON 97058
PH. 541-296-9177 FAX 541-296-6657

PLOT DATE: 6/8/2017

FOR BID

1"
IF THIS BAR IS NOT ONE INCH, THEN ADJUST SCALES ACCORDINGLY

DARRIN O. ECKMAN
STATE OF WASHINGTON
37209
REGISTERED PROFESSIONAL ENGINEER
6.8.017
EX. DATE: 11/14/17

EMW

SHEET
C-201

Work Order No.
15092