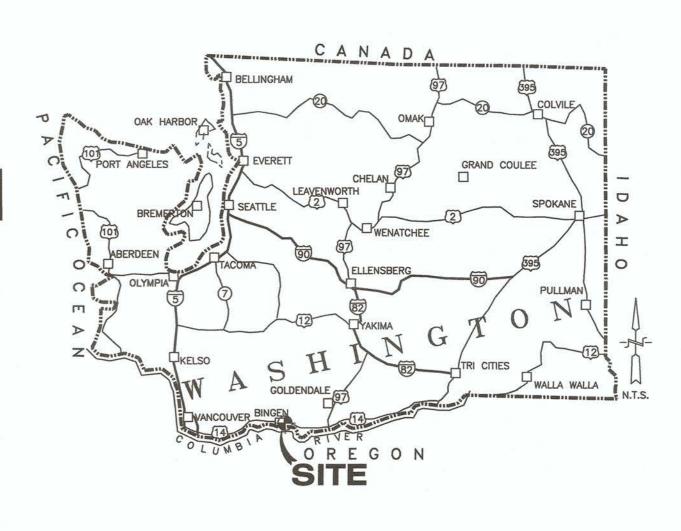
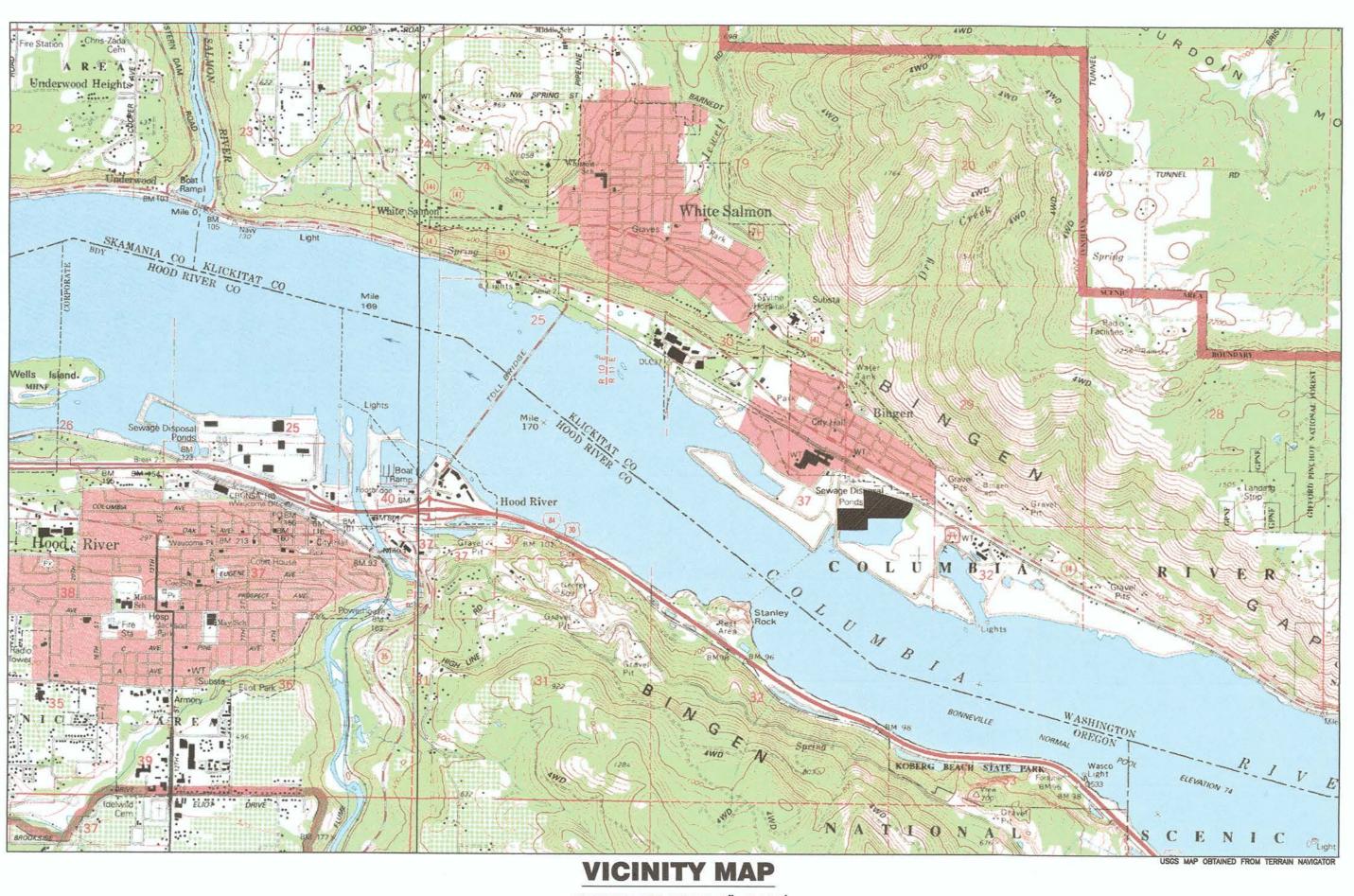
# PROPOSED BPT IRRIGATION-DRAINAGE-FILL PROJECT

# POK PROJECT ID #2022-02 FOR THE KLICKITAT COUNTY PORT DISTRICT No. 1 APRIL 2022



SHEET INDEX				
BASE BID				
SHEET	DESCRIPTION			
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C-113	<b>ADDITIVE WORK ITEM #2</b>			



# **OWNER:**

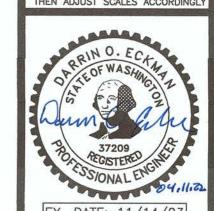
KLICKITAT COUNTY PORT DISTRICT NO. 1
154 EAST BINGEN POINT WAY, STE. A
BINGEN, WA 98605
PH: 509-493-1655
FX: 509-493-4257
MARGIE ZIEGLER, EXECUTIVE DIRECTOR

# **ENGINEER:**

TENNESON ENGINEERING CORP.

3775 CRATES WAY
THE DALLES, OR. 97058
PH. 541-296-9177
FAX 541-296-6657
DARRIN ECKMAN, PROJECT MANAGER
MICHAEL PIKE, PROJECT DESIGNER

RP.	FOR
	IF THIS BAR IS NOT ONE INCH, THEN ADJUST SCALES ACCORDINGLY



COVER

Work Order No. 16149

C-000

APPROXIMATE SCALE 1"=2,000"

SET No.

#### **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
- 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.
- 1) 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% 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(1/2"), 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		Contractor		e for payment Others	
STREETS, PARKING LOTS, PADS, FILLS. ETC.			(5	ee note 1)	
SUBGRADE 1 TEST/4000 S.F/LIFT (2 MIN)			1	See note 3	
AGGREGATE 1 TEST/4000 S.F/LIFT			1	See note	
ASPHALT 1 TEST/4000 S.F/LIFT (2 MIN)			1		
PIPED UTILITIES, ALL				- No - A - LITTLE A N	
TRENCH BACKFILL 1 TEST/200 FOOT TRENCH/LIFT (2 MIN)			1		
WATER					
PRESSURE (TO BE WITNESSED BY ENGINEER OR APPROVING AGENCY)	1				
BACTERIAL WATER TEST PER OHD/DOH REQUIREMENTS		See note 2			
CHLORINE RESIDUAL TEST PER OHD/DOH REQUIREMENTS					
SANITARY SEWER					
AIR TEST PER CITY OR ODOT/APWA WHICHEVER IS MORE STRINGENT	1	See note 4			
MANDREL 95% OF ACTUAL INSIDE DIAMETER	1				
TV INSPECTION LINES MUST BE CLEANED PRIOR TO TV WORK	1				
MANHOLE VACUUM TEST EACH MANHOLE. WITNESSED BY ENGINEER OR APPROVING AGENCY.	1	See note 4		111-144	
STORM					
MANDREL 95% OF ACTUAL INSIDE DIAMETER	1				
TV INSPECTION LINES MUST BE CLEANED PRIOR TO TV WORK	1				
NOTE 1: OTHERS REFERS TO OWNER, ENGINEER OR APPROVING AGENCY AS A RESPONSIBLE FOR SCHEDULING TESTING. ALL TESTING MUST BE COMPLETED IS SUBSEQUENT WORK.					

NOTE 3: IN ADDITION TO IN PLACE DENSITY TESTING, THE SUBGRADE AND AGGREGATE SHALL BE

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

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.

#### 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
- 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

#### PRIVATE UTILITIES:

- A) UNLESS OTHERWISE SHOWN ON THE DRAWINGS OR APPROVED BY JURISDICTION HAVING AUTHORITY, ALL NEW PRIVATE UTILITIES (IRRIGATION, POWER, BROADBAND, 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 WITH POWER, TELEPHONE, GAS AND BROADBAND COMPANIES FOR LOCATION OF VAULTS, PEDESTALS, ETC. ALL ABOVE GRADE FACILITIES SHALL BE PLACED IN A LOCATION OUTSIDE THE PROPOSED SIDEWALK LOCATION.
- C) POWER, TELEPHONE, GAS AND BROADBAND TRENCHING AND CONDUITS SHALL BE INSTALLED PER UTILITY COMPANY REQUIREMENTS WITH PULL TAPE. 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 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.

PCC - PORTLAND CEMENT CONCRETE

PRC - POINT OF REVERSE CURVATURE

SDCB - STORM DRAIN CATCH BASIN

SDCO - STORM DRAIN CLEANOUT

SDMH - STORM DRAIN MANHOLE

PSI - POUNDS PER SQUARE INCH

PVC - POLYVINYL CHLORIDE

ROW - RIGHT OF WAY

RT. - RIGHT

S - SLOPE

SAN - SANITARY

SD - STORM DRAIN

P.I.V. - POST INDICATOR VALVE

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

AASHTO - AMERICAN ASSOCIATION OF STATE PC - POINT OF CURVATURE

HIGHWAY AND TRANSPORTATION

### ABBREVIATIONS:

ABS - ACRYLONITRILE BUTADIENE STYRENE PO - PUSH ON APWA - AMERICAN PUBLIC WORKS ASSOCIATION POC - POINT ON CURVE ASTM - AMERICAN SOCIETY FOR TESTING AND **MATERIALS** AWWA - AMERICAN WATER WORKS ASSOCIATION PT - POINT OF TANGENCY BF - BOTTOM OF FOOTING BSW - BACK OF SIDEWALK BW - BOTTOM OF WALL CDF - CONTROLLED DENSITY FILL CL. - CLASS CLR - CLEAR CONT. - CONTINUOUS COTG - CLEANOUT TO GRADE C.Y. - CUBIC YARD DCVA - DOUBLE CHECK VALVE ASSEMBLY DEQ - OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY DI - DUCTILE IRON DIA., Ø - DIAMETER DR - DIMENSION RATIO (E) - EXISTING EL - ELEVATION FDC - FIRE DEPARTMENT CONNECTION FF - FINISH FLOOR FG - FINISH GRADE FL - FLANGE FM - FORCE MAIN

FW - FIRE WATER

HYD. - HYDRANT

LEN. - LENGTH

G.V. - GATE VALVE

H, HORIZ. - HORIZONTAL

H.S. - HIGH STRENGTH

IE - INVERT ELEVATION

MV - MEDIUM VOLTAGE

N.O. - NORMALLY OPEN

O.C., O/C - ON CENTER

OG - ORIGINAL GROUND

(P) - PROPOSED

N.C. - NORMALLY CLOSED

L.F. - LINEAL FEET

LP - LIGHT POLE

LT. - LEFT

HMAC - HOT MIX ASPHALT CONCRETE

CONTROL DEVICES

ODOT - OREGON DEPARTMENT OF

TRANSPORTATION

OHD - OREGON HEALTH DIVISION

OFFICIALS

SDR - STANDARD DIMENSION RATIO S.F. - SQUARE FEET SSCO - SANITARY SEWER CLEANOUT SSMH - SANITARY SEWER MANHOLE SS - SANITARY SEWER STA - STATION STM - STORM SW - SIDEWALK S.Y. - SQUARE YARD TC - TOP OF CURB TS - TOP OF SIDEWALK OR SLAB TF - TOP OF FOOTING TP - TOP OF PAVEMENT TW - TOP OF WALL TYP. - TYPICAL U.N.O. - UNLESS NOTED OTHERWISE V, VERT. - VERTICAL SDR - STANDARD DIMENSION RATIO S.F. - SQUARE FEET SSCO - SANITARY SEWER CLEANOUT SSMH - SANITARY SEWER MANHOLE SS - SANITARY SEWER STA - STATION STM - STORM SW - SIDEWALK MUTCD - MANUAL ON UNIFORM TRAFFIC S.Y. - SQUARE YARD TC - TOP OF CURB TS - TOP OF SIDEWALK OR SLAB TF - TOP OF FOOTING

TP - TOP OF PAVEMENT

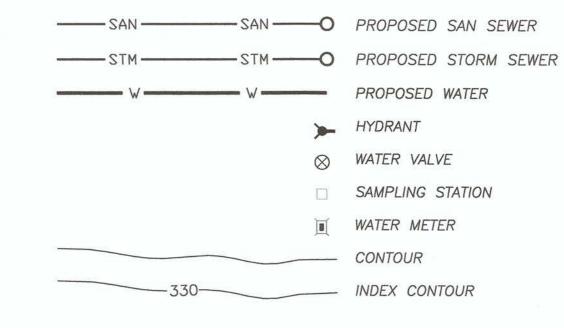
U.N.O. - UNLESS NOTED OTHERWISE

TW - TOP OF WALL

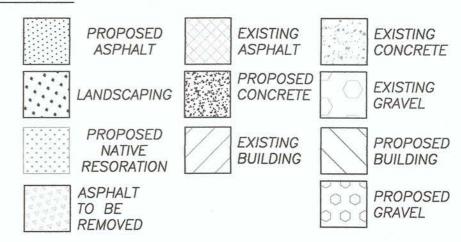
V, VERT. - VERTICAL

TYP. - TYPICAL

**EXISTING** OMH ---(-)----O SAN SEWER - — — <— >—— STORM SEWER TITITI CATCH BASIN O CLEAN OUT - - WATER LINE UNKNOWN DIAMETER  $\cdot \circ ( \bigvee -' \chi') \circ \circ - ( \bigvee -' \chi') - \circ - \circ - WATER LINE 'X'' DIAMETER$ FIRE HYDRANT WATER VALVE BLOW-OFF VALVE WM = WATER METER- UGT --- UGT --- UGT --- UGT --- UNDERGROUND TELEPHONE CABLE --- FIBER OPTIC ---- TELEPHONE CABLE ——— CABLE TELEVISION - GB - GB - GB - GB - GRADE BREAK — C — C — C — CATCH LINE — D — D — D — DITCH LINE --E--E--E--E--- OVERHEAD ELECTRIC POWER ----- UNDERGROUND ELECTRIC POWER POLE EDGE OF PAVEMENT GUARDRAIL OR CHAIN LINK FENCE TELEPHONE PEDESTAL GAS METER POWER TRANSFORMER EM = ELECTRIC METER \_\_\_\_\_\_ CONTOUR LINE \_\_\_\_\_100— \_\_\_ \_ INDEX CONTOUR LINE **PROPOSED** 



## HATCH



FOR 

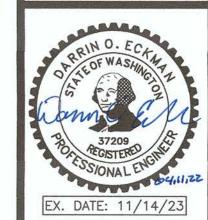
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CRATES WAY
S, OREGON 970!

CONSL

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1 IF THIS BAR IS NOT ONE INCH THEN ADJUST SCALES ACCORDING



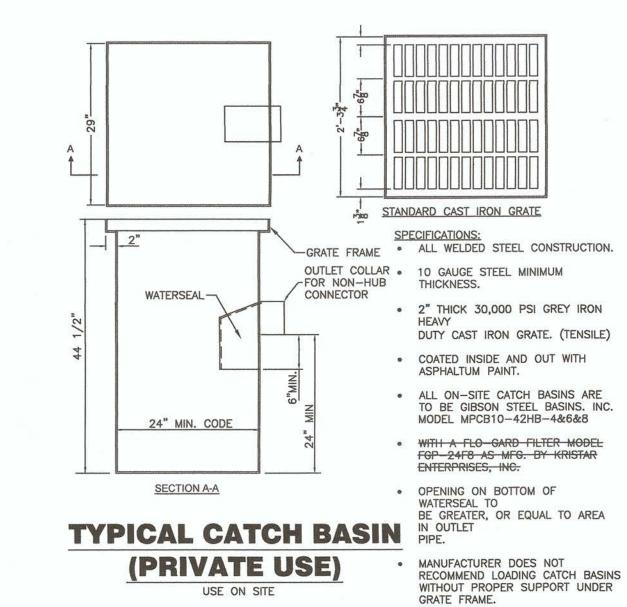
SHEET

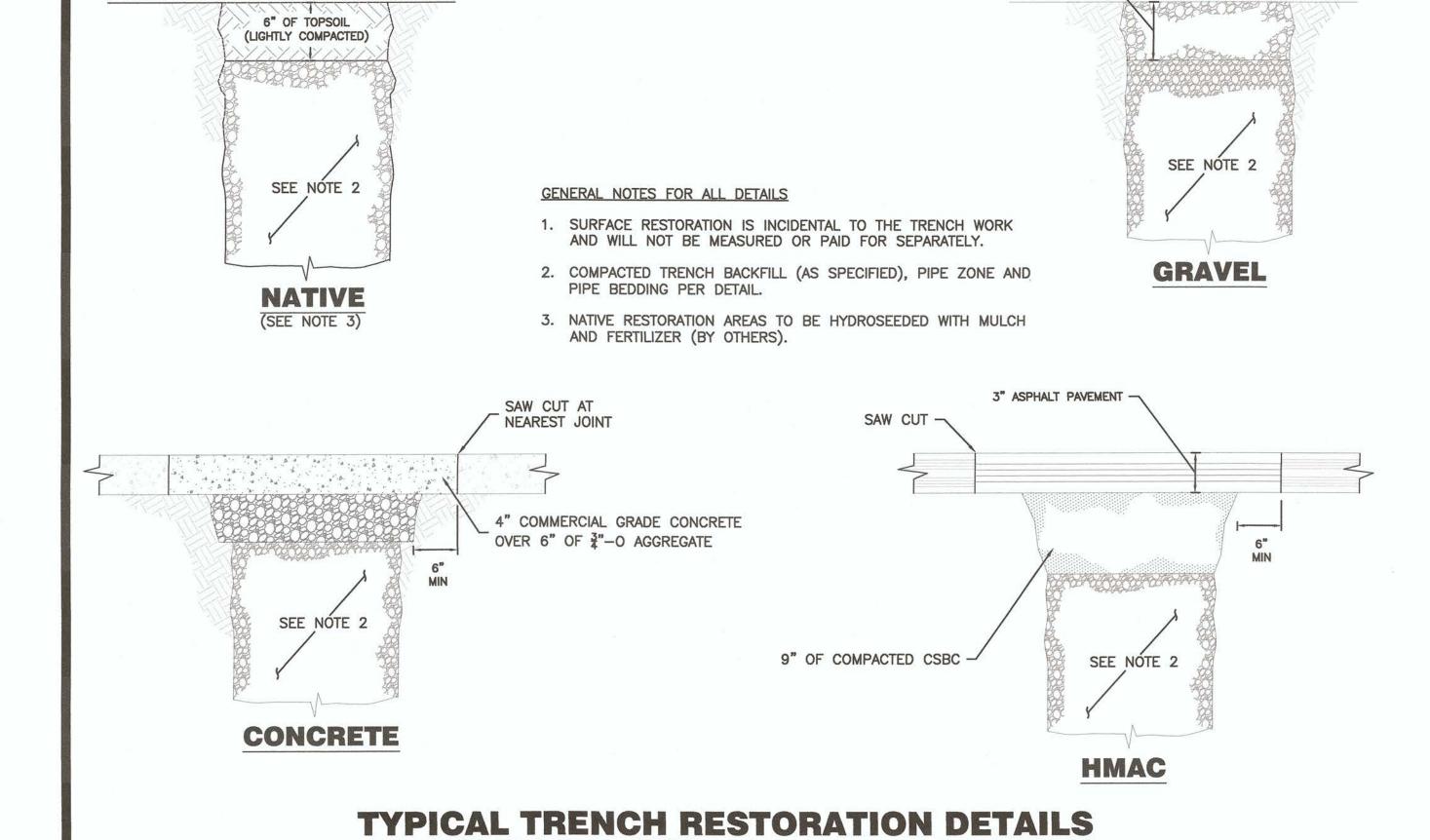


- GENERAL PIPE INSTALLATION
   REQUIREMENTS SHALL BE PER SECTION
   7-08 OF WSDOT STANDARD
   SPECIFICATIONS
- PIPE ZONE AND BEDDING MATERIAL SHALL CONFORM TO WSDOT STANDARD SPECIFICATIONS 9-03.12(3)
- 3. GRAVEL BACKFILL PER WSDOT SPECIFICATIONS SECTION 9-03.19, AND COMPACTED TO 95% MAX. DENSITY (AASHTO T-99). NATIVE SOILS MAY BE USED UPON APPROVAL BY REVIEWING AUTHORITY IF TESTING SHOWS MATERIAL IS CLASSIFIED AS A-1 OR A-3 BY AASHTO
- OUTSIDE THE ROADWAY PRISM, SUITABLE NATIVE BACKFILL SHALL BE COMPACTED TO 90% MAX. DENSITY (AASHTO T-99).
- 5. ALL COMPACTION SHALL BE IN ACCORDANCE WITH THE COMPACTION CONTROL TEST OF WSDOT STANDARD SPECIFICATIONS 2-03.3(14)D.

# **PIPE INSTALLATION DETAIL**

SCALE: NONE





6" OF CSTC (COMPACTED TO 95% OF D698)

K:\!WORK ORDERS\16100\16149\DRAWINGS\16149\_BPT\_SMALL\_PROJECTS.dwg

SCALE: NONE

AINAGE-FILL PROJEC CT ID #2022-02 COUNTY, WASHINGTON

FOR THE
BPT IRRIGATION-DRAINAGE-FII
POK PROJECT ID #2022-02

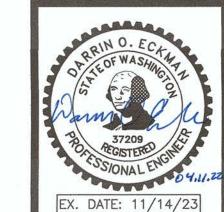
ENGINEERING CORP.
TING ENGINEERS

CONSULTING ENGINEE

3775 CRATES WAY
THE DALLES, OREGON 97
H. 541–296–9177 FAX 541-

FOR

IF THIS BAR IS NOT ONE INCH, THEN ADJUST SCALES ACCORDING



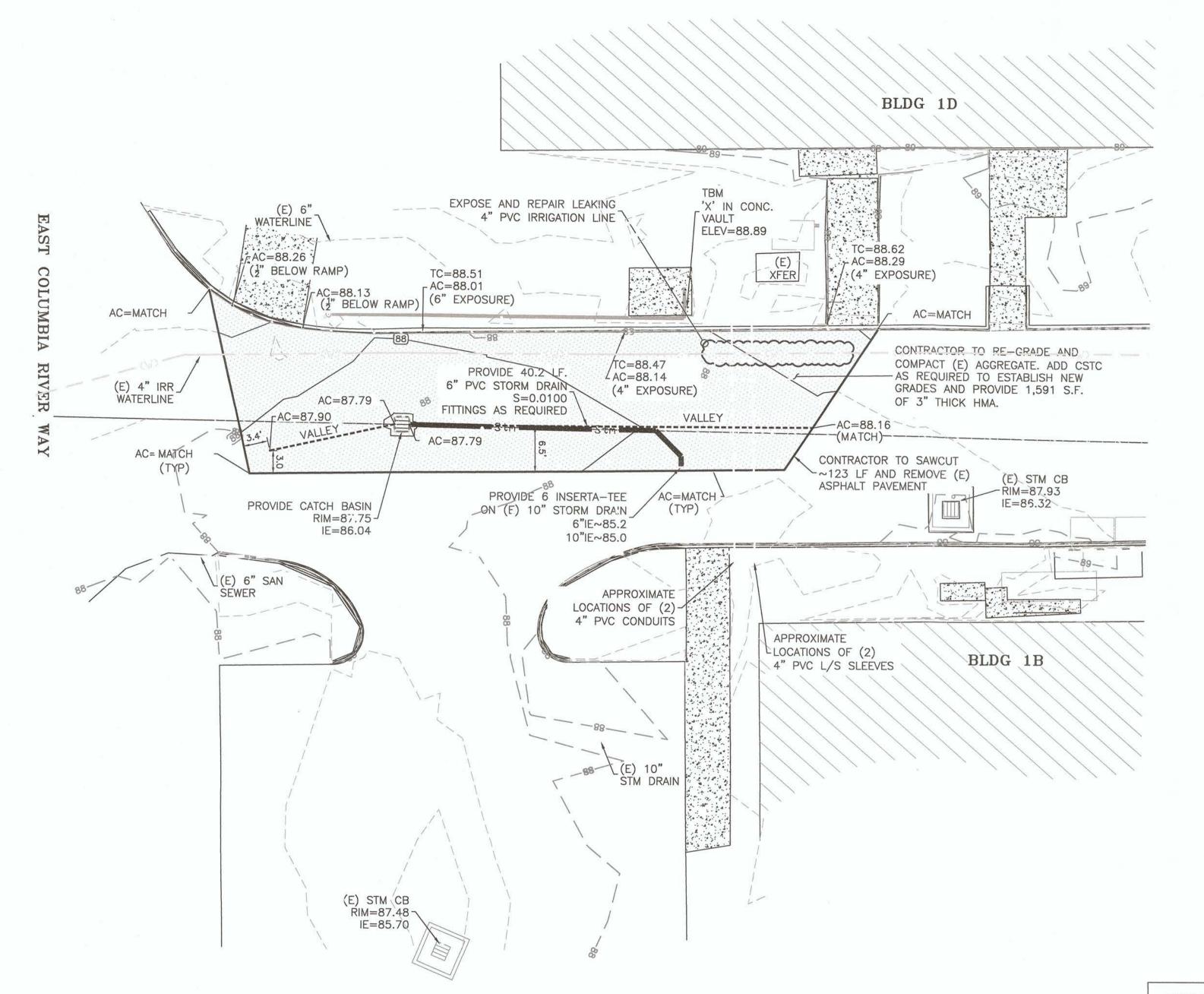
**DETAILS** 

SHEET **C-01** 

#### **GENERAL NOTES:**

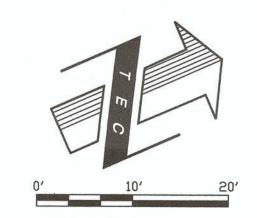
- CONTRACTOR SHALL COMPLY WITH STATE UTILITY LOCATE PROVISIONS. NO EXCAVATION SHALL BE PERFORMED WITHOUT PROPER NOTIFICATION OF UTILITIES.
- 2. KNOWN UTILITIES IN THE AREA OF WORK HAVE BEEN SHOWN FOR THE CONVENIENCE OF THE CONTRACTOR. NO RESPONSIBILITY IS ASSUMED BY EITHER THE OWNER OR THE CONSULTING ENGINEER FOR THE COMPLETENESS OR ACCURACY OF THE LOCATIONS, TYPE, OR NUMBER OF EXISTING UTILITIES.
- CONTRACTOR TO ARRANGE A PRE-CONSTRUCTION MEETING PRIOR TO START OF WORK WITH THE OWNER AND ENGINEER.
- 4. UNLESS OTHERWISE APPROVED BY THE OWNER, CONSTRUCTION SHALL BE DONE BETWEEN 7:00 A.M. AND 5:00 P.M., MONDAY THROUGH FRIDAY.
- 5. 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.
- CONTRACTOR SHALL ERECT AND MAINTAIN BARRICADES, WARNING SIGNS, TRAFFIC CONES PER LOCAL REQUIREMENTS IN ACCORDANCE WITH THE MUTCD (WASHINGTON AMENDMENTS, IF ANY). ALL TRAFFIC CONTROL MEASURES SHALL BE APPROVED AND IN PLACE PRIOR TO ANY CONSTRUCTION ACTIVITY.
- 7. THE AFFECTED PARKING SPACES AND DRIVEWAY INTO BUILDING 1B MAY BE CLOSED FOR A MAXIMUM OF FIVE (5) CONSECUTIVE BUSINESS DAYS. FINAL PAVEMENT PLACEMENT NOT INCLUDED IN THESE TIMEFRAMES.
- 8. CONTRACTOR SHALL ERECT AND MAINTAIN BARRICADES AND WARNING SIGNS TO PROTECT PEDESTRIANS.
- COORDINATE IRRIGATION SYSTEM OPERATION WITH OWNER WHEN WORKING NEARBY.





# BASE BID WORK ITEM BLDG 1B IRRIGATION AND DRAINAGE REPAIRS

SCALE: 1"=10'



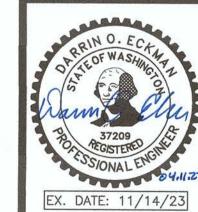
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# BLDG 1B IRRIGATION AND DRAINAGE REPAIRS-NOTES

- 1. DIMENSIONS ARE APPROXIMATE. ALL MATERIALS TO BE PROVIDED BY THE CONTRACTOR.
- 2. SAW CUT, REMOVE & DISPOSE OF EXISTING ASPHALT PAVEMENT.
- 3. EXPOSE (E) IRRIGATION PIPE TO IDENTIFY LEAK. PORT WILL ACTIVATE PUMPS TO ASSIST IN LOCATING THE LEAK. EXCAVATE AS NECESSARY AND REPAIR LEAK. ASSUME (2)—10 L.F. SECTIONS OF PIPE REPLACEMENT AND (4) COUPLINGS IN PRICING.
- 4. EXCAVATE, INSTALL AND BACKFILL STORM DRAIN CATCH BASIN AND 6" PVC STORM DRAIN PIPE. CONNECT TO (E) 10" STORM DRAIN.
- 5. RE-GRADE (E) AGGREGATE TO GRADES INDICATED.
- 6. COMPACT EXPOSED AGGREGATE.
- 7. FURNISH, PLACE AND COMPACT ADDITIONAL WSDOT CRUSHED SURFACING TOP COURSE (CSTC) AS REQUIRED TO ESTABLISH GRADES
- 8. TACK COAT EDGES OF EXISTING ASPHALT PAVEMENT.
- 9. FURNISH, PLACE & COMPACT 3" OF WSDOT CLASS 1/2" HOT MIX ASPHALT (HMA).
- 10. SAND SEAL THE RESULTING JOINT.

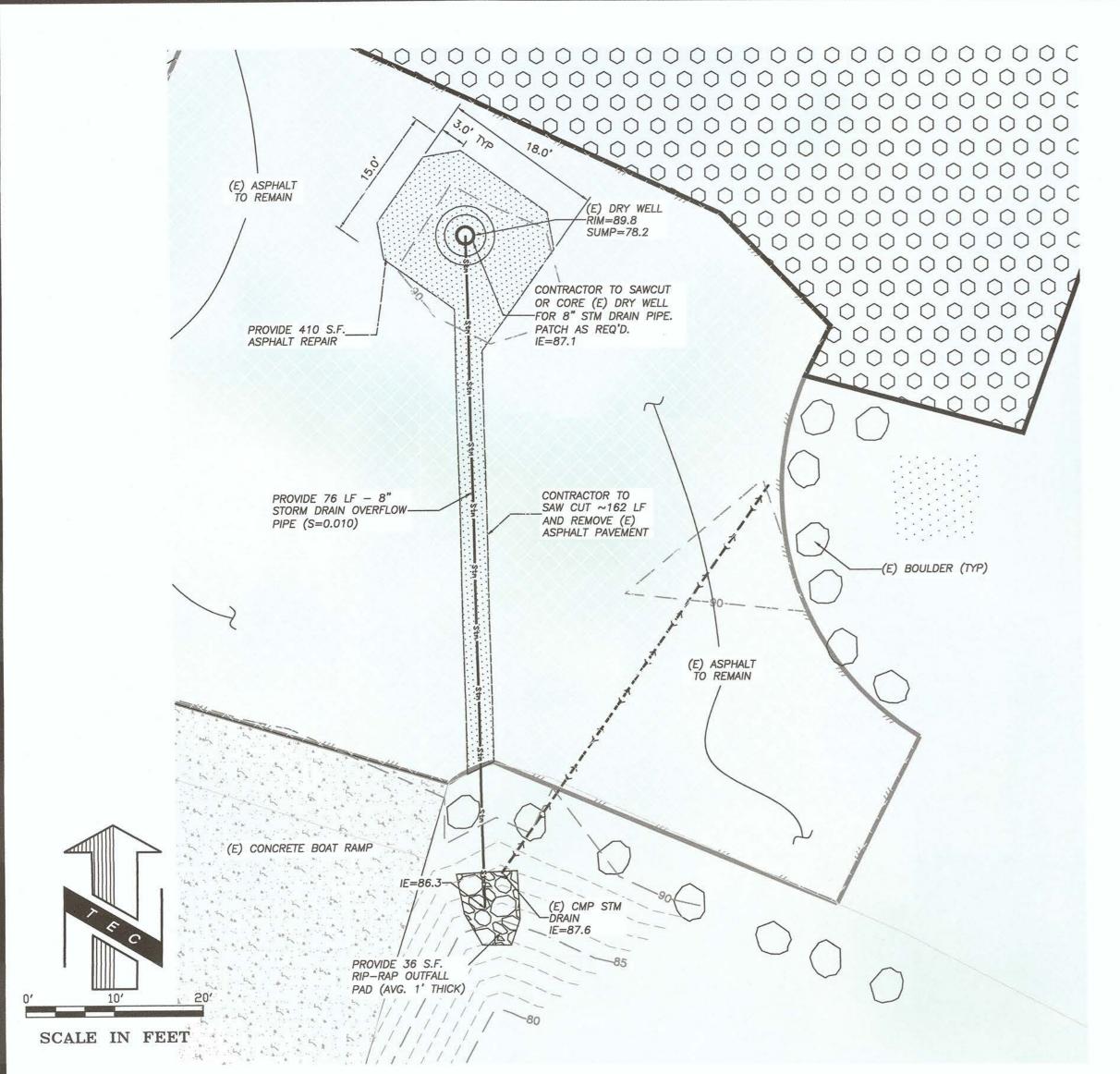
FOR

IF THIS BAR IS NOT ONE INCH THEN ADJUST SCALES ACCORDING



BASE BID

C-111



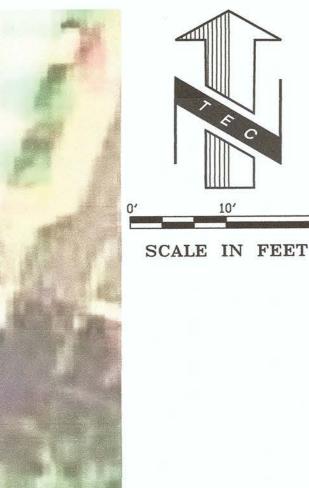
# ADDITIVE WORK ITEM #1 MARINA DRYWELL REPAIR

SCALE: 1"=10'

# MARINA DRYWELL REPAIR - NOTES:

- DIMENSIONS ARE APPROXIMATE. ALL MATERIALS TO BE PROVIDED BY THE CONTRACTOR.
- SAW CUT, REMOVE & DISPOSE OF EXISTING ASPHALT PAVEMENT.
- SAWCUT OR CORE HOLE IN (E) DRYWELL STRUCTURE FOR STM DRAIN OVERFLOW PIPE.
- 4. EXCAVATE, INSTALL AND BACKFILL 8" PVC C900 OR CMP STM DRAIN OVERFLOW PIPE
- 5. EXCAVATE & DISPOSE OF AGGREGATE/SOIL WITHIN THE ASPHALT REPAIR AREA TO A DEPTH OF 12".
- 6. COMPACT EXPOSED SUBGRADE.
- 7. FURNISH, PLACE AND COMPACT 9" OF WSDOT CRUSHED SURFACING BASE COURSE (CSBC)
- 8. TACK COAT EDGES OF EXISTING ASPHALT PAVEMENT.
- 9. FURNISH, PLACE & COMPACT 3" OF WSDOT CLASS 1/2" HOT MIX ASPHALT (HMA).
- 10. SAND SEAL THE RESULTING JOINT.





# ADDITIVE WORK ITEM #3 BLDG 1A ASPHALT REPAIR

SCALE: 1"=10'

# BLDG 1A ASPHALT REPAIR - NOTES:

- 1. DIMENSIONS ARE APPROXIMATE. ALL MATERIALS TO BE PROVIDED BY THE CONTRACTOR.
- 2. SAW CUT, REMOVE & DISPOSE OF EXISTING ASPHALT PAVEMENT.
- 3. EXCAVATE & DISPOSE OF AGGREGATE/SOIL WITHIN THE ASPHALT REPAIR AREAS TO A DEPTH OF 9".
- 4. COMPACT EXPOSED SUBGRADE.
- 5. FURNISH, PLACE AND COMPACT 9" OF WSDOT CRUSHED SURFACING BASE COURSE (CSBC)
- TACK COAT EDGES OF EXISTING ASPHALT PAVEMENT.
- FURNISH, PLACE & COMPACT 3" OF WSDOT CLASS 1/2" HOT MIX ASPHALT (HMA).
- 8. SAND SEAL THE RESULTING JOINT.

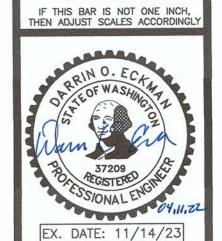


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FOR

**BID**\*\*\*\*\*\*\*1"



ADDITIVE #1 & #3

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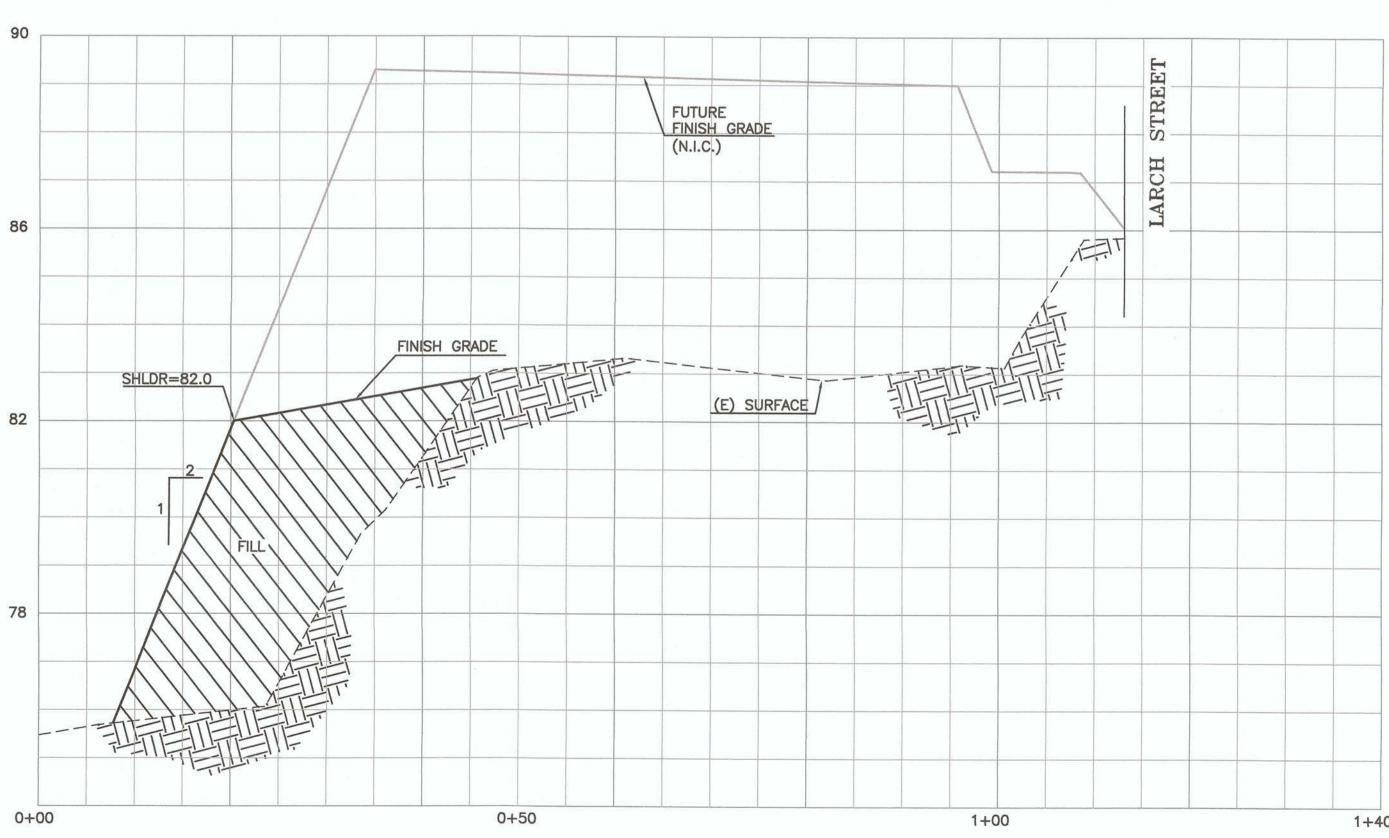
# LOT 9 BOUNDARY FILL - NOTES:

- 1. CONTOURS SHOWN ARE AT 1.0-FOOT INTERVALS UNLESS NOTED OTHERWISE.
- 2. MAXIMUM SLOPE TO BE 2H:1V.
- 3. GRADES ARE TO BE STRAIGHT BETWEEN GRADING LIMITS AND GRADE BREAKS SHOWN.
- 4. COMPUTER GENERATED, SOLID EARTHWORK VOLUMES TO DESIGN GRADE:

± 900 C.Y. EMBANKMENT COMPACTION

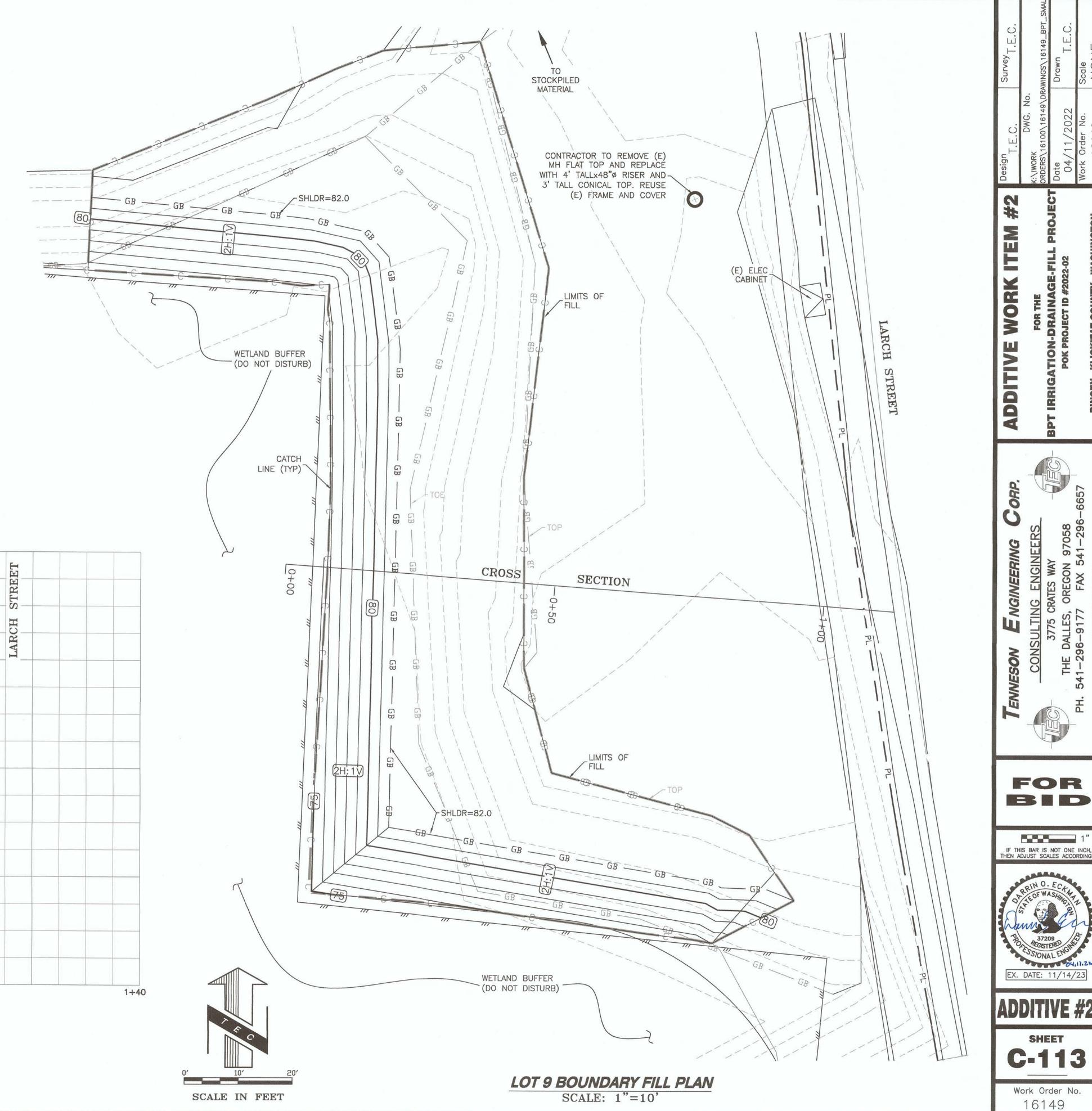
VOLUMES PROVIDED ARE FOR THE CONTRACTOR'S CONVENIENCE ONLY. ADDITIVE WORK ITEM #2 IS LUMP SUM.

- 5. FILLS SHALL BE PLACED IN DRY WEATHER WITH PROPER CONTROLS ON MOISTURE AND COMPACTION. FILLS SHALL BE PLACED IN THIN LIFTS AND COMPACTED TO A FIRM, UNYIELDING MASS. THE THICKNESS OF THE LIFTS WILL NEED TO BE DETERMINED IN THE FIELD, AS A GENERAL RULE FOR SELF PROPELLED COMPACTORS, THE LIFTS SHALL NOT EXCEED 8 INCHES AS MEASURED IN A LOOSE CONDITION.
- 6. CONTRACTOR TO CONDUCT PROOF ROLLS WITH LOADED 10 CY TRUCK OR EQUIVALENT LOADER OVER EACH LIFT - TO BE OBSERVED AND APPROVED BY THE ENGINEER.
- 7. WATER SHALL BE USED AS NEEDED FOR DUST CONTROL DURING CONSTRUCTION ACTIVITIES.
- 8. REMOVE AND DISPOSE OF VEGETATION ON LOT 9 AS DIRECTED BY OWNER. VEGETATION MAY BE PILED ON PORT PROPERTY TO THE NORTHEAST OF BINGEN HARBOR.
- 9. MATERIAL ON OR WITHIN 4 FEET OF FACE OF SLOPE TO HAVE NO ROCKS LARGER THAN 3" IN DIMENSION AND CONSIST OF NO MORE THAN 10% ROCKS (BY VOLUME). REMOVE ANY ROCKS GREATER THAN 24" IN DIMENSION AND STACK IN BERM AT NORTH EDGE OF LOT. AVOID 'NESTING' REMAINING ROCKS IN FILL.
- 10. HEAVILY COMPACT SUBGRADE WITH A 20,000 LB VIBRATORY ROLLER PRIOR TO PLACING FILL.
- 11. FILL MATERIAL TO BE REASONABLY WELL-GRADED GRANULAR MATERIAL WITH A MAXIMUM PARTICLE SIZE OF 8 INCHES IN ANY DIMENSION. MATERIAL MUST BE COMPACTABLE INTO A SOLID, UNYIELDING MASS.
- 12. AS A DEDUCTIVE ALTERNATE (AT THE PORTS SOLE DISCRETION) SUITABLE FILL MATERIAL MAY BE PROVIDED BY THE PORT IN TRUCK DUMPED PILES ON LOT 9, DIRECTLY NORTH OF (E) ENTRANCE.
- 13. CONTRACTOR TO REMOVE AND REPLACE (E) MANHOLE FLAT TOP SLAB WITH 4' TALL x 48" DIAMETER RISER AND 3' TALL CONICAL TOP. REUSE (E) FRAME AND COVER.



# **CROSS-SECTION**

SCALE: 1"=10' H 1"=2' V



SHEET