

BID SET

22-35 LUTHER BURBANK SOUTH SHORELINE RESTORATION

CITY OF MERCER ISLAND PUBLIC WORKS DEPARTMENT



SOURCE: AERIAL FROM BING MAPS

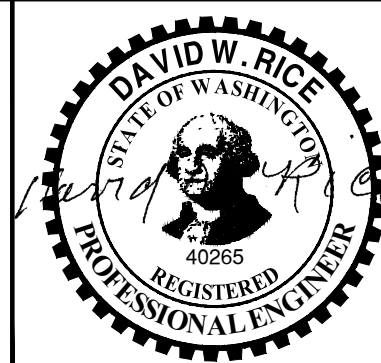
VICINITY MAP

0 300 600
SCALE IN FEET



DRAWING INDEX		
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2	G-2	COMPOSITE SITE PLAN AND SHEET LAYOUT KEY
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DRAWING INDEX (NOT IN CONTRACT, PROVIDED FOR CLARITY ONLY)		
SHEET SEQUENCE	SHEET NO.	SHEET DESCRIPTION
19	L-1	PLANTING PLAN
20	L-2	PLANTING PLAN
21	L-3	PLANTING DETAILS



REVISIONS				
REV	DATE	BY	APP'D	DESCRIPTION
1	2022/10	CH	DR	FINAL - FOR BID

DESIGNED BY: A. SPOONER
 DRAWN BY: C. HEWETT
 CHECKED BY: N. HIGGINS
 APPROVED BY: A. SPOONER/D. RICE
 SCALE: AS NOTED
 DATE: OCTOBER 2022

LUTHER BURBANK SOUTH SHORELINE RESTORATION

COVER SHEET

BID SET

G-1

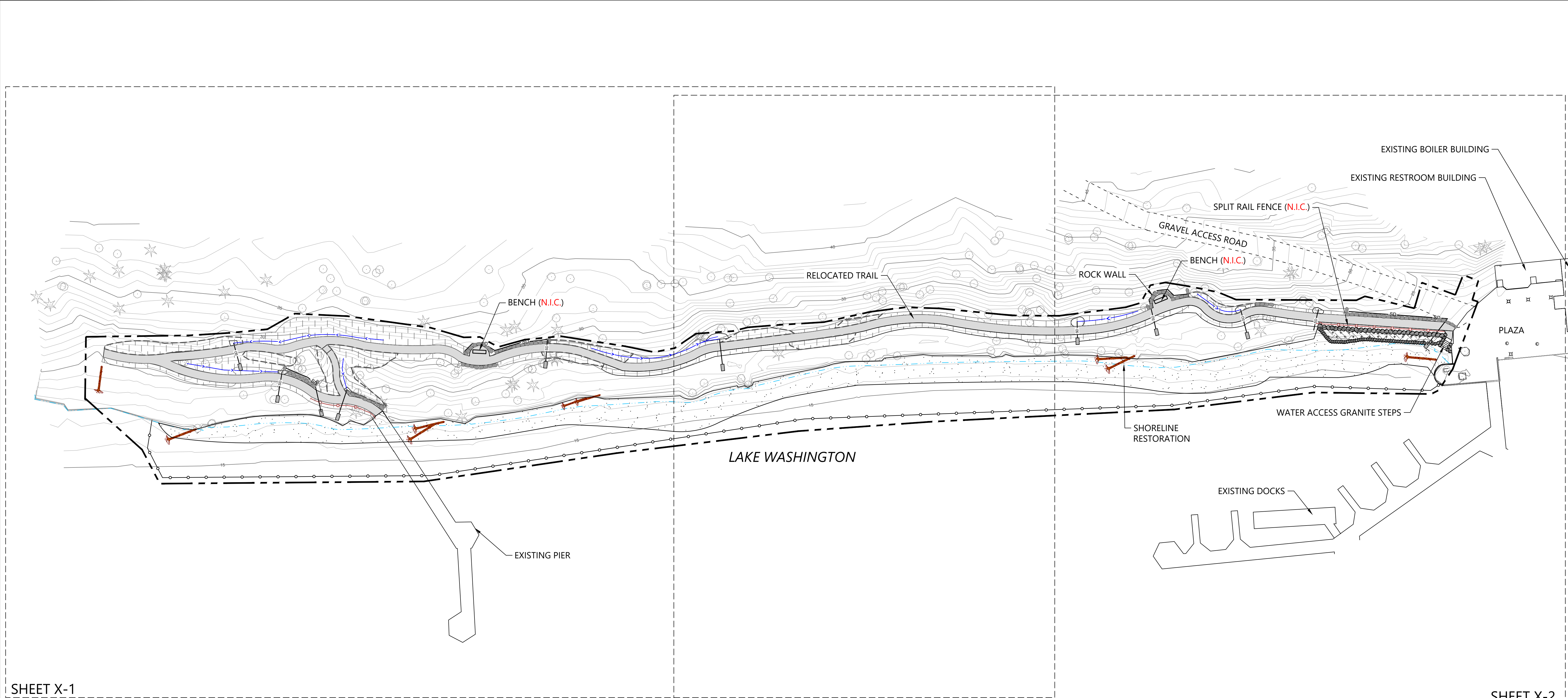
SHEET NO. 1 OF 21

K:\Projects\1018-City of Mercer Island\Calkins Landing and Luther Burbank\03_South Shoreline\100%_Design_2017\1018-PL-G001_Cover.dwg G-1
 Oct 28, 2022, 4:55pm chewett

ONE INCH
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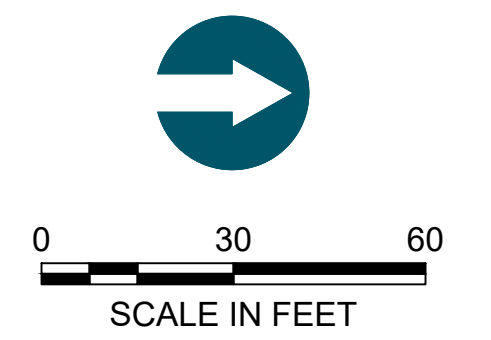


SHEET X-1

SHEET X-2

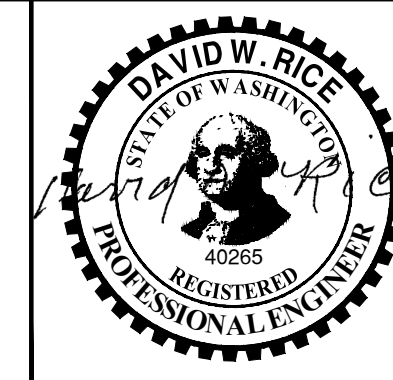
- LEGEND:**
- PROJECT LIMIT
 - PROPOSED OHWM
 - EXISTING TREE TO REMAIN
 - CONTOUR (1' AND 5' INTERVAL)
 - SPLIT RAIL FENCE (N.I.C.)
 - SWALE FLOW LINE AND DIRECTION
 - EROSION PROTECTION
 - BEACH GRAVEL
 - LARGE WOODY DEBRIS
 - CRUSHED ROCK PATH
 - GRANITE STEPS
 - ROCK WALL
 - TOPSOIL AMENDMENT AREA
 - 6" DIA. HDPE CULVERT
 - TURBIDITY CURTAIN
 - JUTE FABRIC LIMITS (N.I.C.)

- NOTES:**
1. HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD 83, U.S. FEET.
 2. VERTICAL DATUM: NAVD 88
 3. THIS SHEET IS FOR REFERENCE ONLY. SEE OTHER PLANS FOR CONSTRUCTION.



N.I.C. = NOT IN CONTRACT

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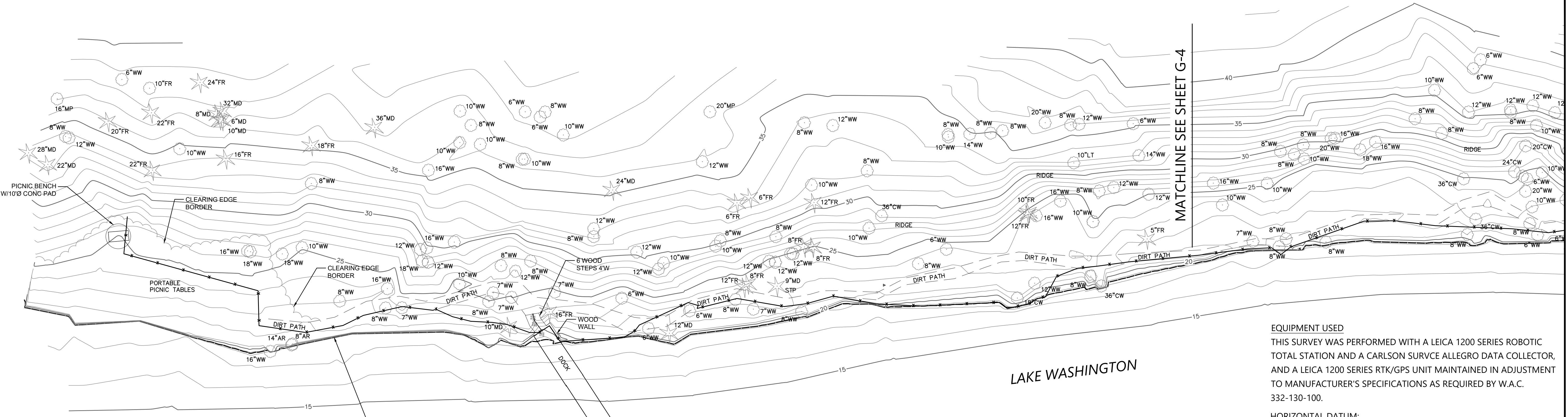
LUTHER BURBANK SOUTH SHORELINE RESTORATION

COMPOSITE SITE PLAN AND SHEET LAYOUT KEY

G-2

SHEET NO. 2 OF 21

LOCATION, LENGTH, SIZE AND MATERIAL OF SS IS APPROXIMATE, BASED ON INFORMATION FROM CITY OF MERCER ISLAND RECORD DRAWINGS



LEGEND

- ⊗ SET BORING LOCATION MARKER
- LS LIGHT STANDARD
- CB CATCH BASIN
- SM STORM MANHOLE
- SI STORM INVERT
- SSCO SANITARY SEWER CLEAN OUT
- WV WATER VALVE
- WE WATER WELL
- FF* FINISHED FLOOR ELEV. AT DOOR
- FH FIRE HYDRANT
- WM WATER METER
- GM GAS METER
- GV GAS VALVE
- UP UTILITY POLE
- GA GUY ANCHOR
- PO POST
- RS ROAD SIGN
- SG SIGN
- PB PHONE BOX
- EDGE OF GRAVEL
- EDGE OF PAVEMENT
- CONCRETE EXTRUDED CURB (UNLESS OTHERWISE NOTED)
- FENCE (AS NOTED)
- TOPOGRAPHY BREAKLINE
- SS SANITARY SEWER
- SD STORM DRAIN
- OHU OVERHEAD UTILITY
- G GAS LOCATES
- P POWER LOCATES
- W WATER LOCATES
- BN 2' W WOOD BENCH ON CONC PAD
- SEEP AREA
- ROCK WALL
- PWR POWER UTILITY BOX
- CV CONCRETE VAULT
- COM COMMUNICATION UTILITY BOX
- UB UTILITY BOX
- UBI UTILITY BOX IRRIGATION
- IC IRRIGATION CONTROL BOX
- TM TELE-COMMUNICATION MANHOLE
- PM POWER METER
- TF TRAFFIC LIGHT UTILITY BOX
- SB TRAFFIC SIGNAL BOX
- TV TV UTILITY BOX
- PT POWER TRANSFORMER
- DS DECIDUOUS
- CF CONIFEROUS
- AR ALDER
- AP APPLE
- AH ASH
- AS ASPEN
- BI BIRCH
- CY CHERRY
- CT CHESTNUT
- CW COTTONWOOD
- DW DOGWOOD
- EM ELM
- HN HAWTHORN
- HZ HAZELNUT
- LT LOCUST
- MP MAPLE
- OK OAK
- PE PEAR
- PM PLUM
- PR POPLAR
- WT WALNUT
- WW WILLOW
- CE CEDAR
- CP CYPRESS
- FR DOUGLAS FIR
- HK HEMLOCK
- HY HOLLY
- MD MADRONA
- PI PINE
- RW REDWOOD
- SP SPRUCE
- SQ SEQUOIA
- SY SYCAMORE
- LINE DRAWN AT ELEV 18.67 (OHWM)
- EXISTING SILT FENCING (SEE NOTE 1)

NOTES:

1. THE OWNER INSTALLED SILT FENCING AT THE LOCATIONS SHOWN IN THE SPRING OF 2022. THIS ITEM WILL REMAIN IN PLACE FOR THE CONTRACTOR'S USE IN COMPLETING THE WORK.
2. UTILITY INFORMATION SHOWN HEREON IS COMPILED FROM FIELD OBSERVED SURFACE FEATURES, AND A VARIETY OF RECORD SOURCES INCLUDING CITY RECORDS AND GIS DATA. SURVEYOR MAKES NO GUARANTEE THAT UTILITIES SHOWN HEREON COMPRISE ALL POSSIBLE UTILITIES IN THE AREA NOR WARRANTS THAT UTILITIES ARE IN THE EXACT LOCATIONS INDICATED.
3. LAYERS WITHIN ELECTRONIC FILE ENDING WITH "REC", "GIS", AND "GIS-OFF" ARE ENTIRELY CITY GIS/RECORD INFORMATION.
4. PARCEL LINES SHOWN HEREON BASED UPON GIS AND RECORD INFORMATION AND IS NOT THE RESULT OF A BOUNDARY SURVEY.
5. THIS TOPOGRAPHIC SURVEY WAS PERFORMED WITHOUT THE BENEFIT OF A CURRENT TITLE REPORT, AND THEREFORE DOES NOT PURPORT TO SHOW ALL EASEMENTS, ENCUMBRANCES, OR RESTRICTIONS OF RECORD, IF ANY.
6. FIELD SURVEY WAS PERFORMED BETWEEN JULY 26 AND AUGUST 13, 2013
7. THIS SURVEY WAS PERFORMED BY FIELD RUN GROUND TRAVERSE WITH THE FINAL RESULTS MEETING OR EXCEEDING THE CURRENT TRAVERSE STANDARDS CONTAINED IN W.A.C. 332-130-090 AND ALSO UTILIZED RTK/GPS OBSERVATIONS TO TIE GROUND TRAVERSE TO LOCAL CITY MONUMENTATION

EQUIPMENT USED

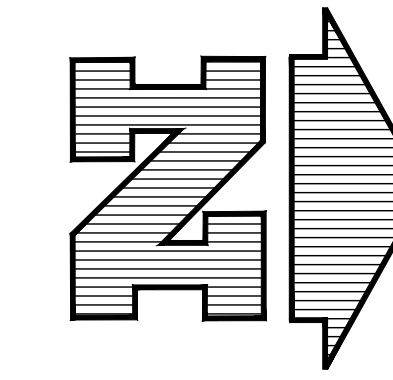
THIS SURVEY WAS PERFORMED WITH A LEICA 1200 SERIES ROBOTIC TOTAL STATION AND A CARLSON SURVE ALLEGRO DATA COLLECTOR, AND A LEICA 1200 SERIES RTK/GPS UNIT MAINTAINED IN ADJUSTMENT TO MANUFACTURER'S SPECIFICATIONS AS REQUIRED BY W.A.C. 332-130-100.

HORIZONTAL DATUM:


NAD 1983/91 WASHINGTON NORTH ZONE PER CITY OF MERCER ISLAND CONTROL POINT DATA SHEETS RETRIEVED FROM WGS SURVEY DATA WAREHOUSE DATABASE FOR POINTS 8358, 2029, 2039, AND MI1002 SHOWN LOCALLY AS A LINE BETWEEN FIELD LOCATED MONUMENTS MI1002 AND 2029 AS NOTED HEREON BEARING NORTH 40°16'37" WEST

VERTICAL DATUM:


NAVD 88 PER CITY OF MERCER ISLAND DATA SHEETS. SEE ELEVATION TRANSFERRED TO ONSITE TBM HEREON.



SCALE: 1" = 20'



ROTH HILL
Roth Hill now Stantec
425.869.9448 www.rothhill.com
11130 NE 33rd Place, Suite 200
Bellevue, WA 98004



NOTES:

1. SURVEY BY STANTEC, DATED OCTOBER 2013.

BID SET



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LUTHER BURBANK SOUTH SHORELINE RESTORATION

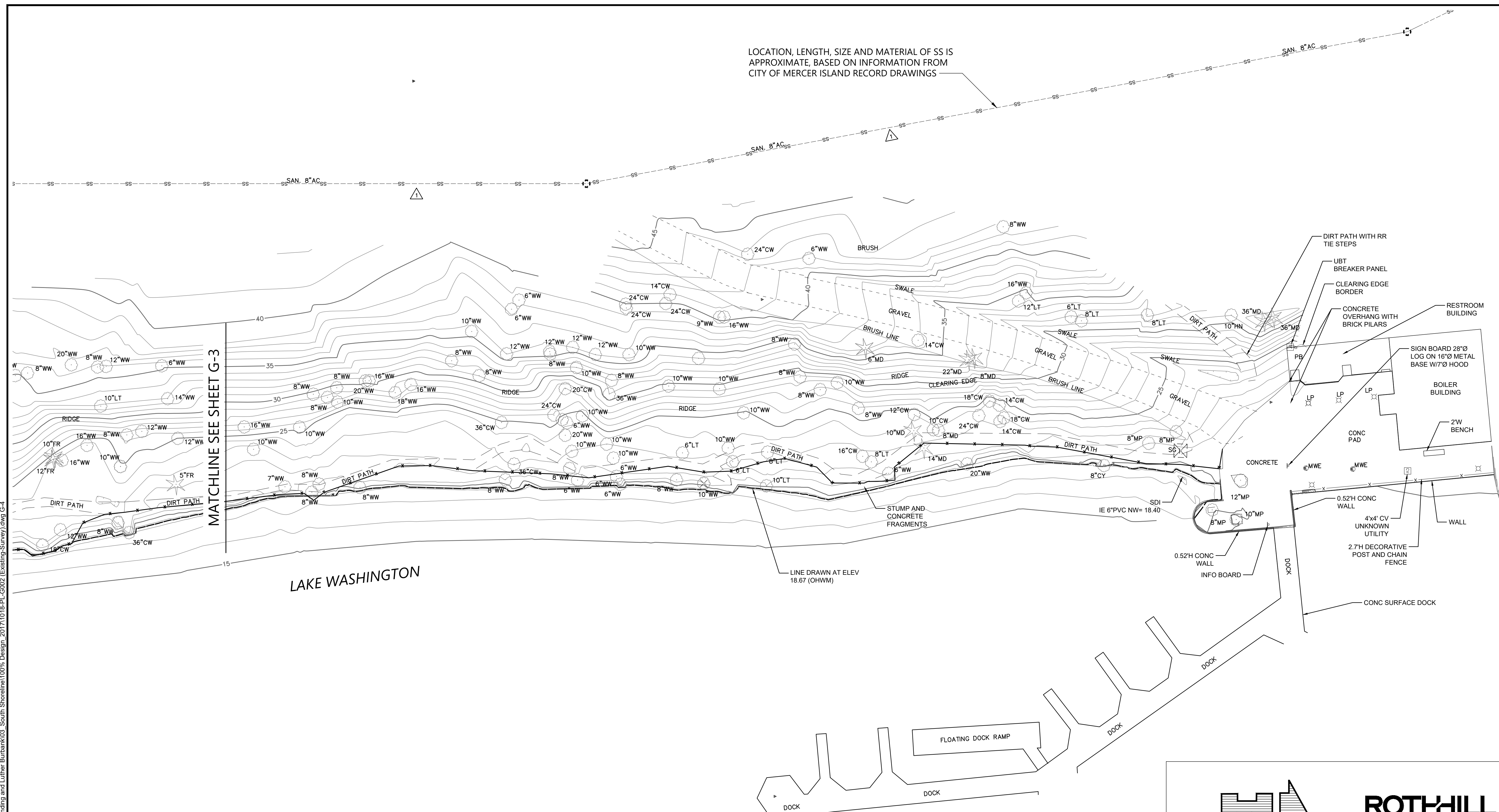
EXISTING CONDITIONS PLAN (SURVEY)

G-3

K:\Projects\1018-City of Mercer Island\Calkins Landing and Luther Burbank\100% Design\2017\1018-PL-G002 (Existing Survey).dwg G-3 Oct 28, 2022 4:55pm chewart

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LOCATION, LENGTH, SIZE AND MATERIAL OF SS IS APPROXIMATE, BASED ON INFORMATION FROM CITY OF MERCER ISLAND RECORD DRAWINGS



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 Bellevue, WA 98004

NOTES:

1. SURVEY BY STANTEC, DATED OCTOBER 2013.
2. FOR LEGEND AND EXISTING CONDITIONS NOTES, SEE DRAWING G-3

SCALE: 1" = 20'

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ONE INCH AT FULL SIZE IF NOT ONE INCH SCALE ACCORDINGLY



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LUTHER BURBANK SOUTH SHORELINE RESTORATION

EXISTING CONDITIONS PLAN (SURVEY)

G-4

SHEET NO. 4 OF 21

K:\Projects\1018-City of Mercer Island\Calkins Landing and Luther Burbank\100% Design_2017\1018-PL-G002 (Existing Survey).dwg G-5
Oct 28, 2022 4:55pm chewett



PHOTO 1:
CURRENT SILT FENCING
NOTE: CHAIN LINK CONSTRUCTION FENCING HAS BEEN
REMOVED SINCE THIS PHOTOGRAPH WAS TAKEN

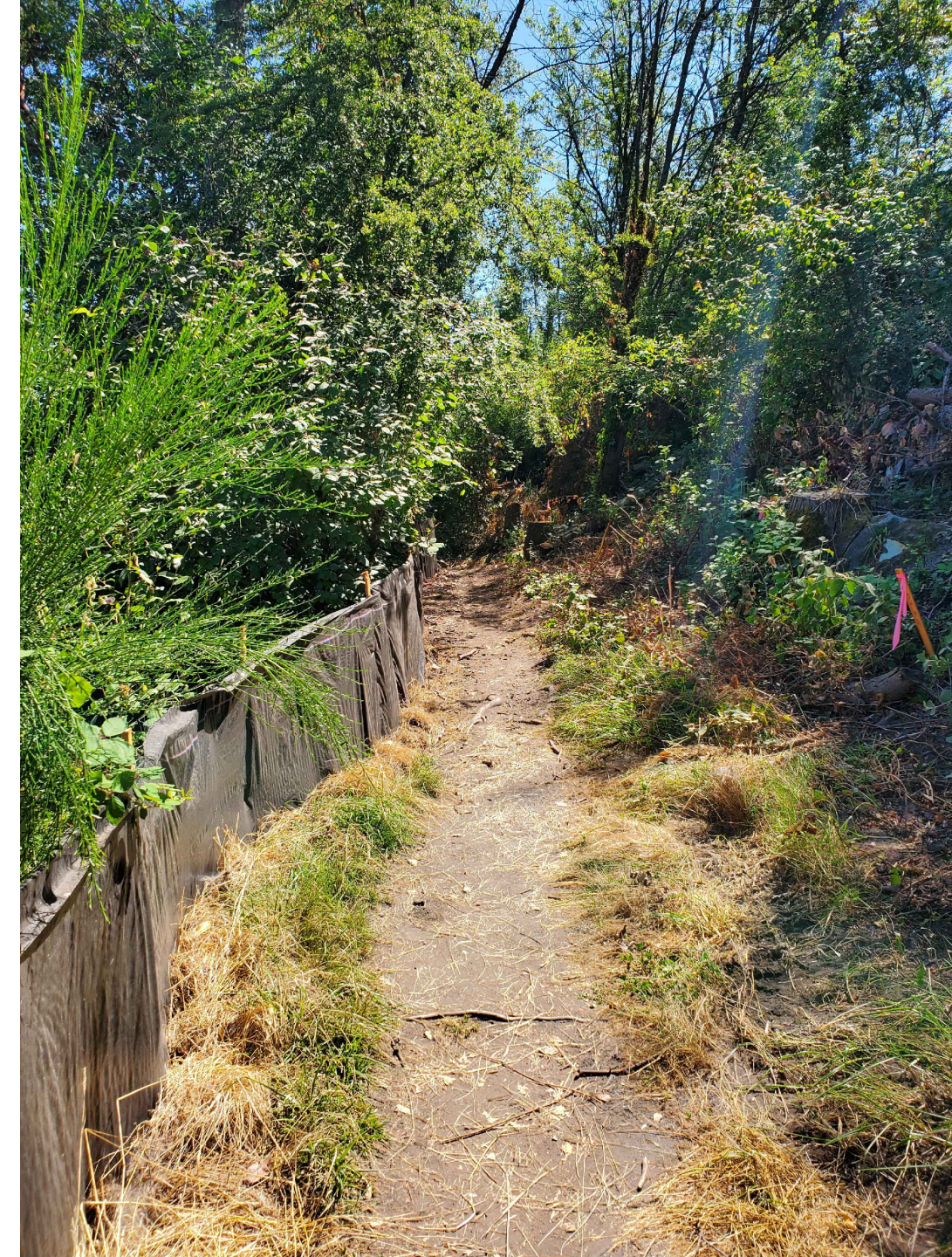


PHOTO 2:
EXISTING SILT FENCING AT EXISTING TRAIL



PHOTO 3:
EXISTING INVASIVE VEGETATION

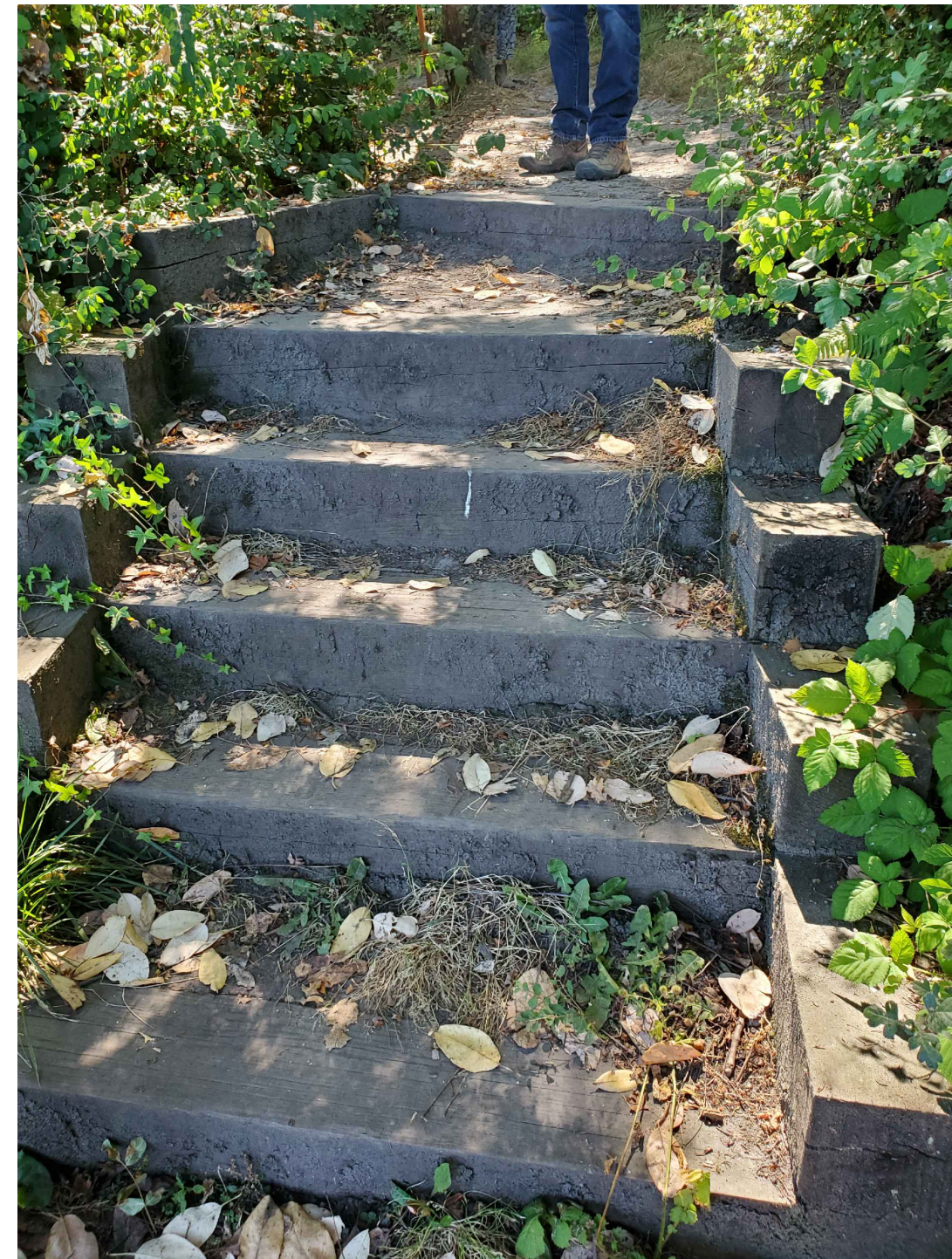


PHOTO 4:
EXISTING TIMBER STEPS



PHOTO 5:
TIMBER STEPS VIEW SOUTH

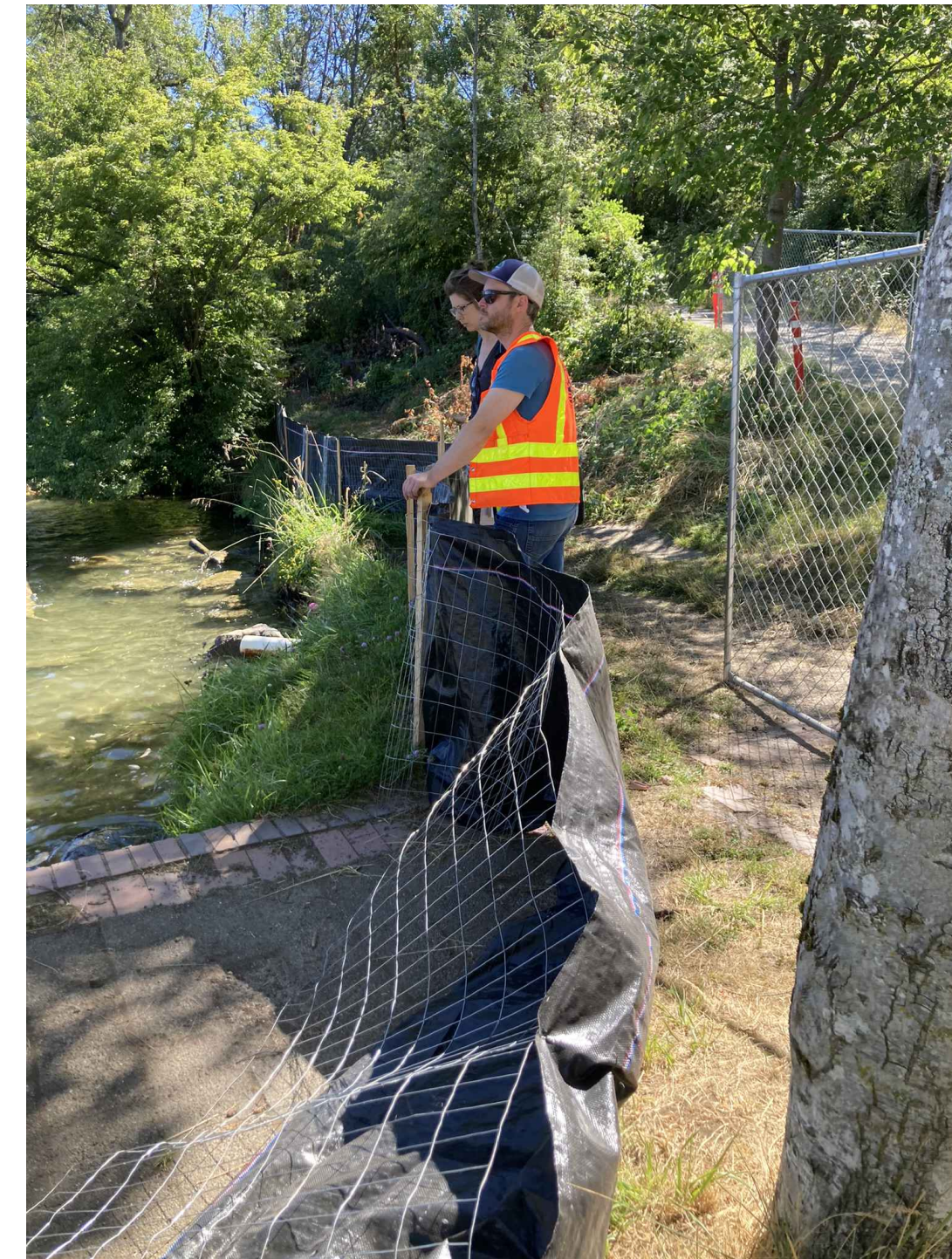


PHOTO 6:
SILT FENCING AT NORTH BOUNDARY

ONE INCH
AT FULL SIZE IF NOT ONE
INCH SCALE ACCORDINGLY

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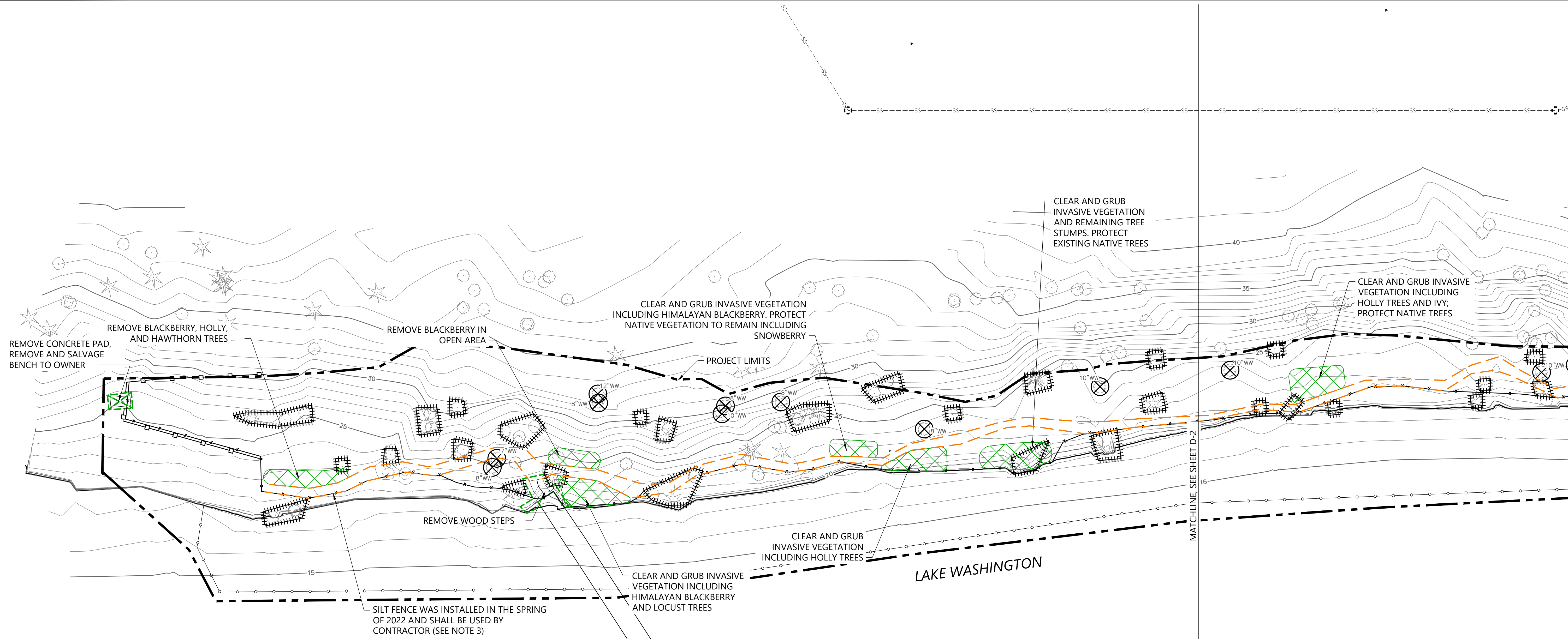
LUTHER BURBANK SOUTH SHORELINE RESTORATION

EXISTING CONDITIONS PHOTOGRAPHS

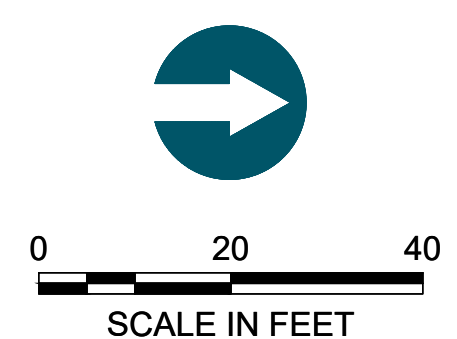
G-5

SHEET NO. 5 OF 21

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 Oct 28, 2022 4:55pm chewett



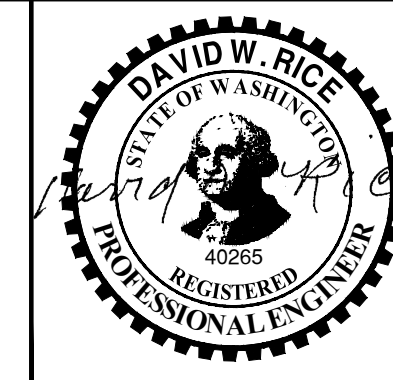
- LEGEND:**
- *---*--- EXISTING SILT FENCING (SEE NOTE 3) 1
D-3
 - ||||| TREE PROTECTION FENCING 2
D-3
 - TEMPORARY 6" CHAINLINK CONSTRUCTION FENCING 5
D-3
 - IN-WATER TURBIDITY CURTAIN 4
D-3
 - --- EXISTING TRAIL TO BE REMOVED
 - ▨ SELECTIVE CLEAR AND GRUB, SEE NOTES 4 AND 5
 - ⊗ TREE TO BE REMOVED, SEE SHEET G-3 FOR TREE SPECIES LEGEND
 - ▧ EXISTING SITE FEATURE TO BE REMOVED



- NOTES:**
1. HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD 83, U.S. FEET.
 2. VERTICAL DATUM: NAVD88
 3. SILT FENCING WAS ERECTED ON SITE IN THE SPRING OF 2022. CONTRACTOR SHALL AUGMENT OR ADJUST SILT FENCING PRIOR TO COMMENCING THE WORK, AS NEEDED TO MEET TESC AND SITE ACCESS REQUIREMENTS. THE CONTRACTOR SHALL ALSO MAINTAIN FENCING DURING CONSTRUCTION AND REMOVE FENCING AT COMPLETION OF WORK.
 4. FLAG INVASIVE VEGETATION PRIOR TO SELECTIVE REMOVAL FOR OWNER APPROVAL. REFER TO DETAIL 2, DRAWING D-3 AND SPECIFICATIONS FOR CLEAR AND GRUB REQUIREMENTS WITHIN CRITICAL ROOT ZONES OF NATIVE VEGETATION TO REMAIN.
 5. SELECTIVE INVASIVE TREES WERE CUT IN EARLY 2022. CONTRACTOR SHALL CLEAR AND GRUB REMAINING TREE STUMPS
 6. SALVAGE LOGS WITH ROOTWADS FOR REUSE AS LARGE WOODY DEBRIS
 7. THE TESC FACILITIES SHOWN ON THESE DRAWINGS ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THE CONTRACTOR MUST UPGRADE THESE TESC FACILITIES AS NEEDED FOR UNEXPECTED STORM EVENTS AND TO ENSURE THAT SEDIMENT AND SEDIMENT-LADEN WATER DO NOT LEAVE THE SITE.
 8. THE TESC FACILITIES MUST BE INSPECTED DAILY BY THE CONTRACTOR-AND MAINTAINED, REPAIRED, OR AUGMENTED AS NECESSARY-TO ENSURE THEIR CONTINUED FUNCTIONING.
 9. FOR ADDITIONAL TESC REQUIREMENTS, SEE DRAWING D-3

ONE INCH
AT FULL SIZE IF NOT ONE
INCH SCALE ACCORDINGLY

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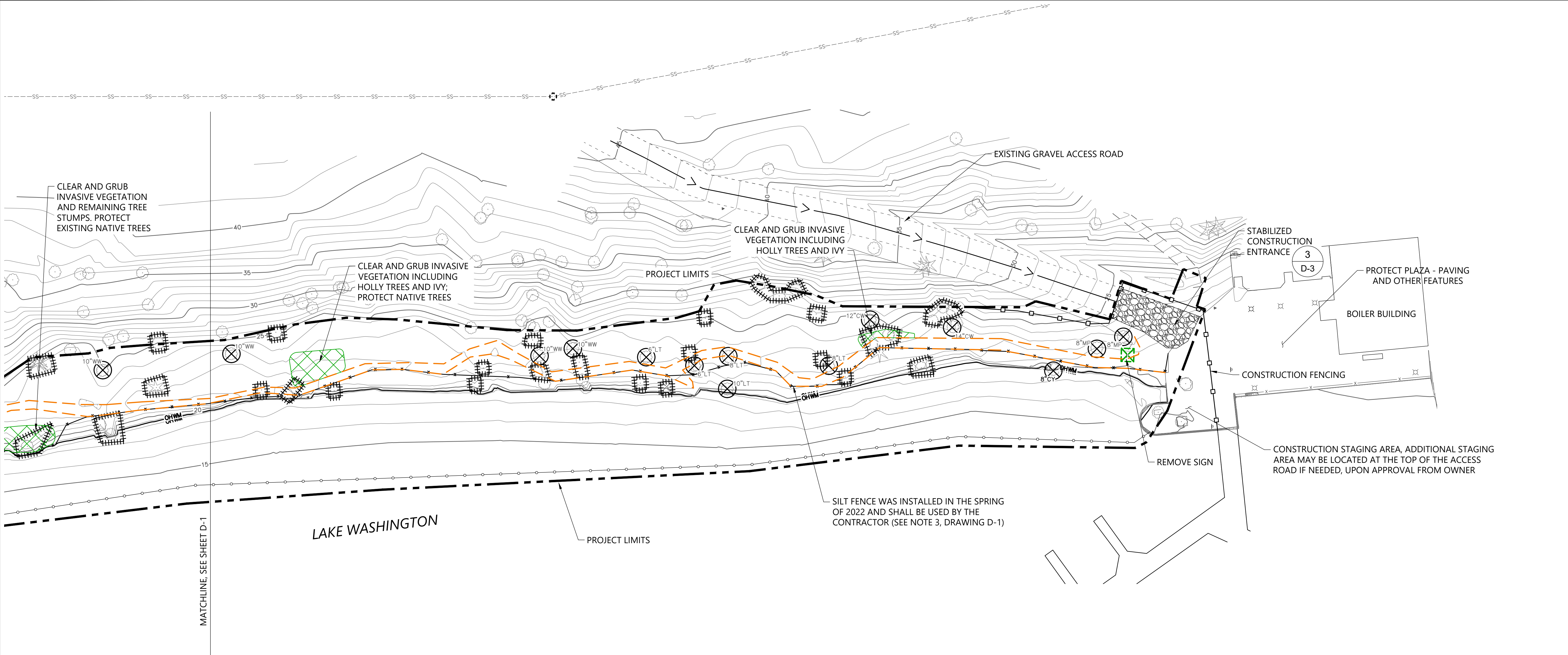
LUTHER BURBANK SOUTH SHORELINE RESTORATION

DEMOLITION, CLEARING, AND TESC PLAN

D-1

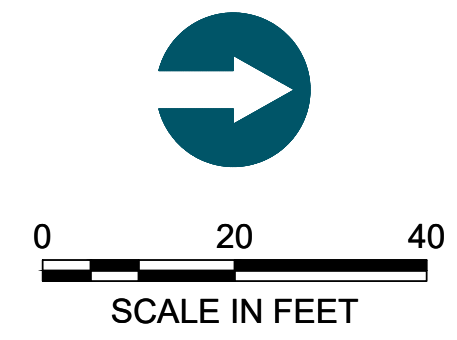
SHEET NO. 6 OF 21

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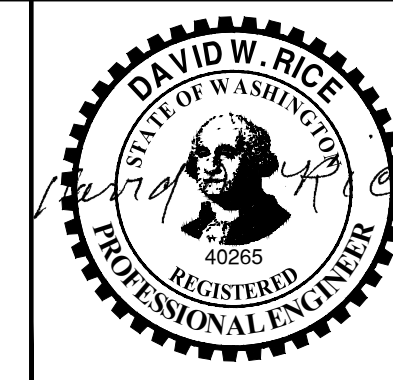
MATCHLINE, SEE SHEET D-1

- LEGEND:**
- CONSTRUCTION ACCESS ROUTE
 - EXISTING SILT FENCING (SEE NOTE 3, DRAWING D-1) 1
D-3
 - TREE PROTECTION FENCING 2
D-3
 - TEMPORARY CONSTRUCTION ENTRANCE 3
D-3
 - TEMPORARY 6" CHAINLINK CONSTRUCTION FENCING 5
D-3
 - IN-WATER TURBIDITY CURTAIN 4
D-3
 - EXISTING TRAIL TO BE REMOVED
 - SELECTIVE CLEAR AND GRUB, SEE NOTES 4 AND 5 ON DRAWING D-1
 - TREE TO BE REMOVED, SEE SHEET G-3 FOR TREE SPECIES LEGEND
 - EXISTING SITE FEATURE TO BE REMOVED



- NOTES:**
- HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD 83, U.S. FEET.
 - VERTICAL DATUM: NAVD88
 - FOR ADDITIONAL DEMOLITION, CLEARING, AND TESC NOTES, SEE DRAWING D-1

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DEMOLITION, CLEARING, AND TESC PLAN

D-2

SHEET NO. 7 OF 21

ONE INCH
 AT FULL SIZE IF NOT ONE
 INCH SCALE ACCORDINGLY

GENERAL TESC NOTES:

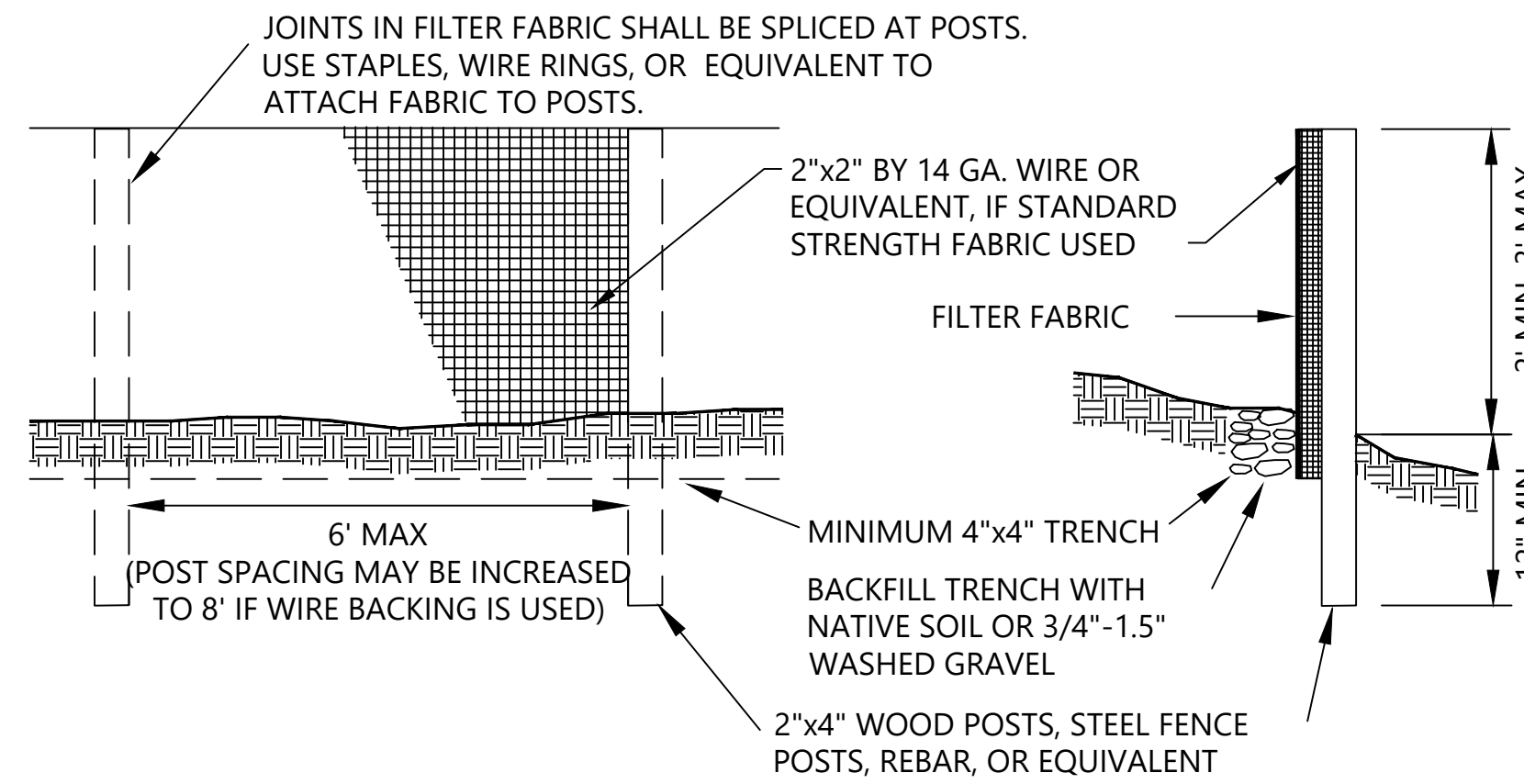
1. THE TESC FACILITIES SHOWN ON THESE DRAWINGS MUST BE CONSTRUCTED IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES, AND IN SUCH A MANNER AS TO ENSURE THAT SEDIMENT AND SEDIMENT-LADEN WATER DO NOT ENTER THE DRAINAGE SYSTEM OR LAKE WASHINGTON.
2. THE TESC FACILITIES SHOWN ON THESE DRAWINGS ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE TESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND TO ENSURE THAT SEDIMENT AND SEDIMENT-LADEN WATER DO NOT ENTER THE DRAINAGE SYSTEM OR LAKE WASHINGTON.
3. THE TESC FACILITIES SHALL BE INSPECTED DAILY BY THE CONTRACTOR AND MAINTAINED, REPAIRED, OR AUGMENTED AS NECESSARY--TO ENSURE THEIR CONTINUED FUNCTIONING.
4. STORM DRAIN INLETS OPERABLE DURING CONSTRUCTION SHALL BE PROTECTED SO THAT STORMWATER RUNOFF DOES NOT ENTER THE CONVEYANCE SYSTEM WITHOUT FIRST BEING FILTERED OR TREATED TO REMOVE SEDIMENT. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED AFTER CONSTRUCTION, PRIOR TO PROJECT COMPLETION AND ACCEPTANCE. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT-LADEN WATER OFFSITE WITHOUT TREATMENT.
5. STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT.
6. FROM OCTOBER 1 THROUGH APRIL 30, NO SOILS SHALL REMAIN EXPOSED AND UNWORKED FOR MORE THAN 2 DAYS. FROM MAY 1 TO SEPTEMBER 30, NO SOILS SHALL REMAIN EXPOSED AND UNWORKED FOR MORE THAN 7 DAYS. SOILS SHALL BE STABILIZED AT THE END OF THE SHIFT BEFORE A HOLIDAY OR WEEKEND IF NEEDED BASED ON THE WEATHER FORECAST. THESE STABILIZATION REQUIREMENTS APPLY TO ALL SOILS ON SITE, WHETHER AT FINAL GRADE OR NOT. THE CITY OF MERCER ISLAND MAY ADJUST THESE TIME LIMITS.
7. SOIL AND OTHER STOCKPILES MUST BE STABILIZED AND PROTECTED WITH SEDIMENT-TRAPPING MEASURES.
8. ALL POLLUTANTS, INCLUDING WASTE MATERIALS AND DEMOLITION DEBRIS, THAT OCCUR ON SITE DURING CONSTRUCTION SHALL BE HANDLED AND DISPOSED OF IN A MANNER THAT DOES NOT CAUSE CONTAMINATION OF STORMWATER.
9. MAINTENANCE AND REPAIR OF HEAVY EQUIPMENT AND VEHICLES AND OTHER ACTIVITIES WHICH MAY RESULT IN DISCHARGE OR SPILLAGE OF POLLUTANTS TO THE GROUND OR INTO STORMWATER RUNOFF MUST BE CONDUCTED USING SPILL PREVENTION MEASURES APPROVED BY THE CONTRACTING OFFICER OR HIS/HER REPRESENTATIVE. REPORT ALL SPILLS TO 911.
10. HIGHLY TURBID OR CONTAMINATED DEWATERING WATER SHALL BE HANDLED SEPARATELY FROM STORMWATER AND PROPERLY DISPOSED.

PROJECT SPECIFIC TESC NOTES:

1. THE TESC PLAN DRAWINGS SHOWN ARE CONCEPTUAL. THE CONTRACTOR IS REQUIRED TO SUBMIT DETAILED TESC PLANS AND A CONSTRUCTION STORMWATER POLLUTION PREVENTION PLAN (SWPPP) FOR APPROVAL, AS REQUIRED BY THE SPECIFICATIONS.
2. WORK TO BE UNDERTAKEN BELOW THE ELEVATION OF THE ORDINARY HIGH WATER LINE SHALL COMPLY WITH APPLICABLE PERMIT REQUIREMENTS.
3. THE CONTRACTOR IS RESPONSIBLE FOR THE CARE AND DIVERSION OF WATER DURING CONSTRUCTION IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL WATER QUALITY STANDARDS AND PROJECT PERMIT REQUIREMENTS.

CONSTRUCTION SEQUENCE:

1. SCHEDULE AND CONDUCT A PRE-CONSTRUCTION CONFERENCE WITH THE CITY OF MERCER ISLAND. THIS MEETING SHALL BE HELD A MINIMUM OF 48 HOURS PRIOR TO THE START OF WORK.
2. INSTALL CONSTRUCTION FENCING.
3. FLAG CLEARING LIMITS AND EXISTING TREES AND OTHER NATIVE VEGETATION TO REMAIN. CALL OWNER TO REVIEW AND CONFIRM EXISTING TREES ARE FLAGGED CORRECTLY BEFORE ANY DEMO WORK BEGINS.
4. CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE.
5. INSPECT AND ADJUST SILT FENCING INSTALLED BY THE OWNER IN THE SPRING OF 2022. IF NEEDED, AUGMENT SILT FENCING TO MEET TESC REQUIREMENTS.
6. INSTALL TREE PROTECTION FENCING
7. COMPLETE CLEARING, GRADING, AND REMOVAL OF SURFACE FEATURES.
8. PERFORM GRADING AND INSTALLATION OF NEW SURFACE FEATURES.
9. AMEND EXISTING SOIL
10. INSTALL IRRIGATION CONNECTION
11. DURING CONSTRUCTION, MAINTAIN AND UPGRADE TESC BMPS AS NEEDED TO PREVENT SEDIMENT FROM LEAVING THE SITE.
12. AFTER CONSTRUCTION IS COMPLETE, COORDINATE WITH THE OWNER, THE OWNER WILL STABILIZE EXPOSED SOILS WITH JUTE FABRIC AND MULCHING. PLANTING WILL ALSO BE PERFORMED BY THE OWNER.
13. COORDINATE PROJECT HAND OFF WITH THE OWNER. REMOVE TESC BMPS AS DIRECTED BY THE OWNER.
14. SEQUENCE SHALL BE ADAPTED, AS NEEDED, FOR OPTIONAL ITEMS INCLUDED DURING CONSTRUCTION.



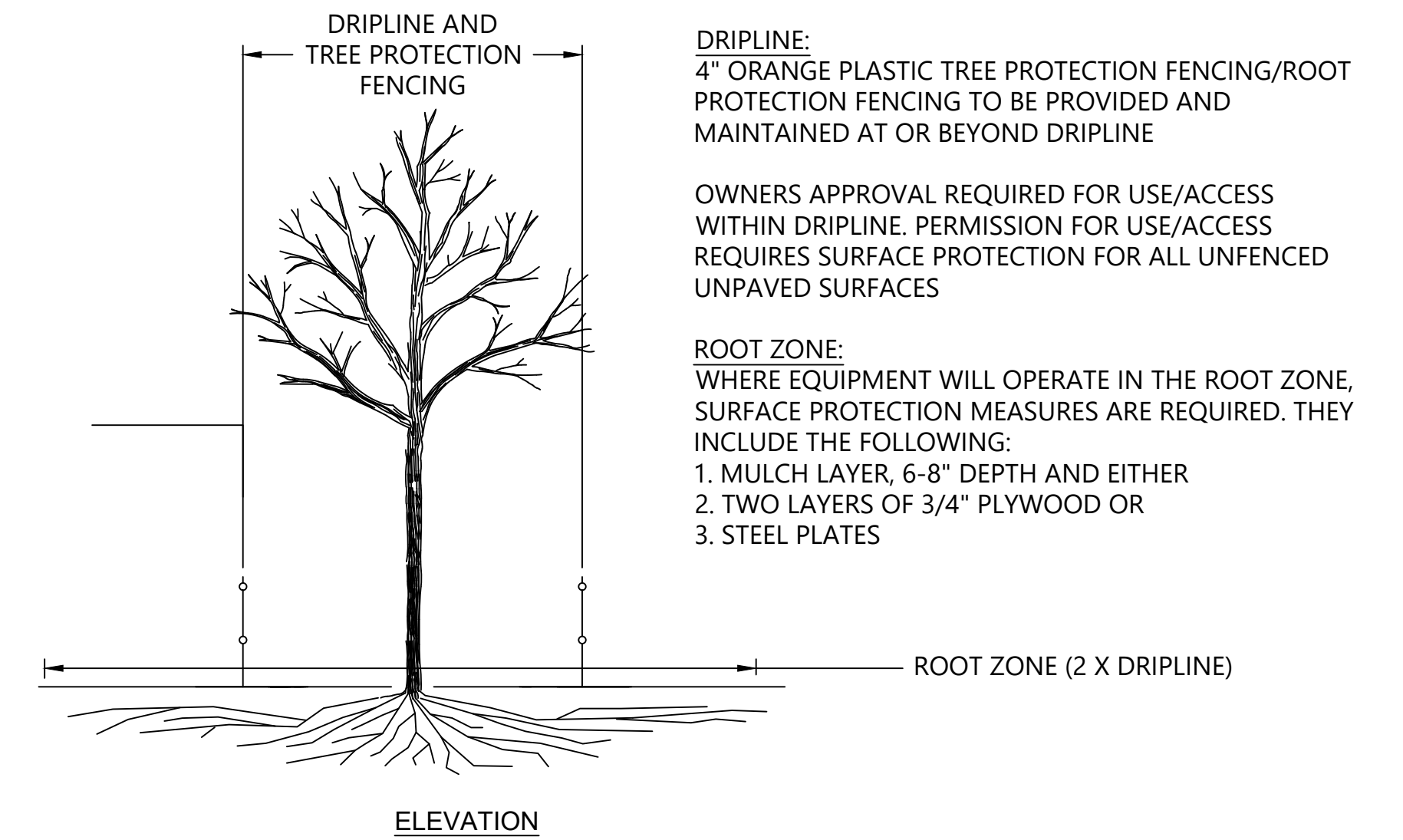
1 SILT FENCE DETAIL

SCALE: NOT TO SCALE

D-1

NOTES:

1. FILTER FABRIC FENCES SHALL BE INSTALLED ALONG CONTOUR WHENEVER POSSIBLE.
2. SILT FENCE WAS INSTALLED IN EARLY 2022. DETAIL PROVIDED IF CONTRACTOR NEEDS TO SHIFT FENCING LOCATION.



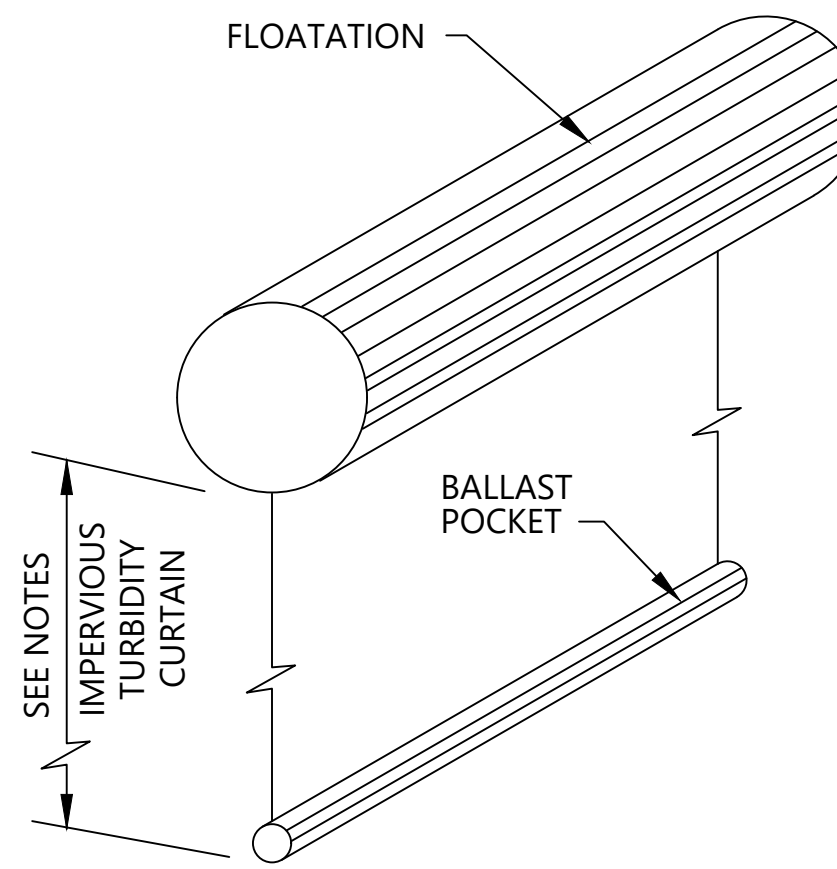
2 TREE PROTECTION DETAIL

SCALE: NOT TO SCALE

D-1

NOTES:

1. TREE PROTECTION FENCING WAS INSTALLED IN EARLY 2022. DETAIL PROVIDED IF CONTRACTOR NEEDS TO SHIFT FENCING LOCATION.



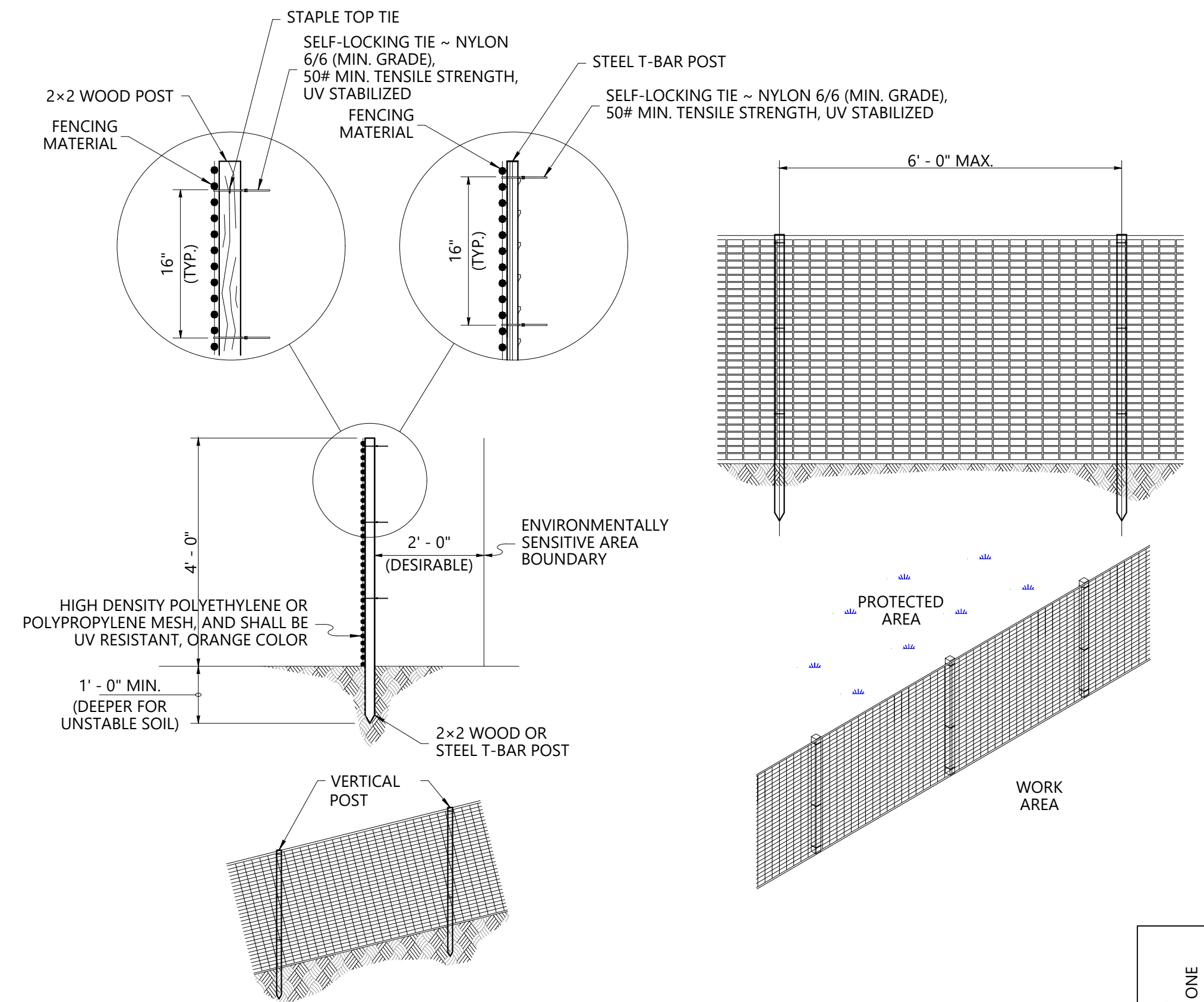
NOTES:

1. AROUND PILE DRIVING AREAS AND EXISTING PILE REMOVAL AREAS, LENGTH OF CURTAIN SHALL EXTEND TO MUDLINE FOR ALL TIDE LEVELS.
2. ALL OTHER AREAS, WHERE DEBRIS FROM DEMOLITION WORK MAY EXIST, LENGTH OF CURTAIN SHALL BE 6 FEET.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE TURBIDITY CURTAIN THROUGHOUT ALL TIDAL CONDITIONS AND WEATHER EXPECTED DURING THE CONSTRUCTION PERIOD, AS REQUIRED BY THE APPROVED PROJECT PERMITS.
4. SEE SPECIFICATIONS FOR MATERIAL REQUIREMENTS.

4 IN-WATER TURBIDITY CURTAIN

SCALE: NOT TO SCALE

D-1



5 TEMPORARY HIGH VISIBILITY CONSTRUCTION FENCING

SCALE: NTS

T-1

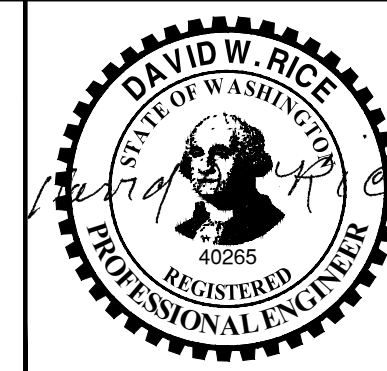
SOURCE: WSDOT STANDARD PLAN 110.10-01

NOTE: POST SHALL HAVE SUFFICIENT STRENGTH AND DURABILITY TO SUPPORT THE FENCE THROUGH THE LIFE OF THE PROJECT.

BID SET

ONE INCH
AT FULL SIZE IF NOT ONE
INCH SCALE ACCORDINGLY

K:\Projects\1018-City of Mercer Island\Calkins Landing and Luther Burbank\100% Design\2017\1018-PL-D001 (Demo+TESC).dwg D-3
Oct 28, 2022 4:55pm chewett



REVISIONS				
REV	DATE	BY	APP'D	DESCRIPTION
1	2022/10	CH	DR	FINAL - FOR BID

DESIGNED BY: A. SPOONER
 DRAWN BY: C. HEWETT
 CHECKED BY: N. HIGGINS
 APPROVED BY: A. SPOONER/D. RICE
 SCALE: AS NOTED
 DATE: OCTOBER 2022

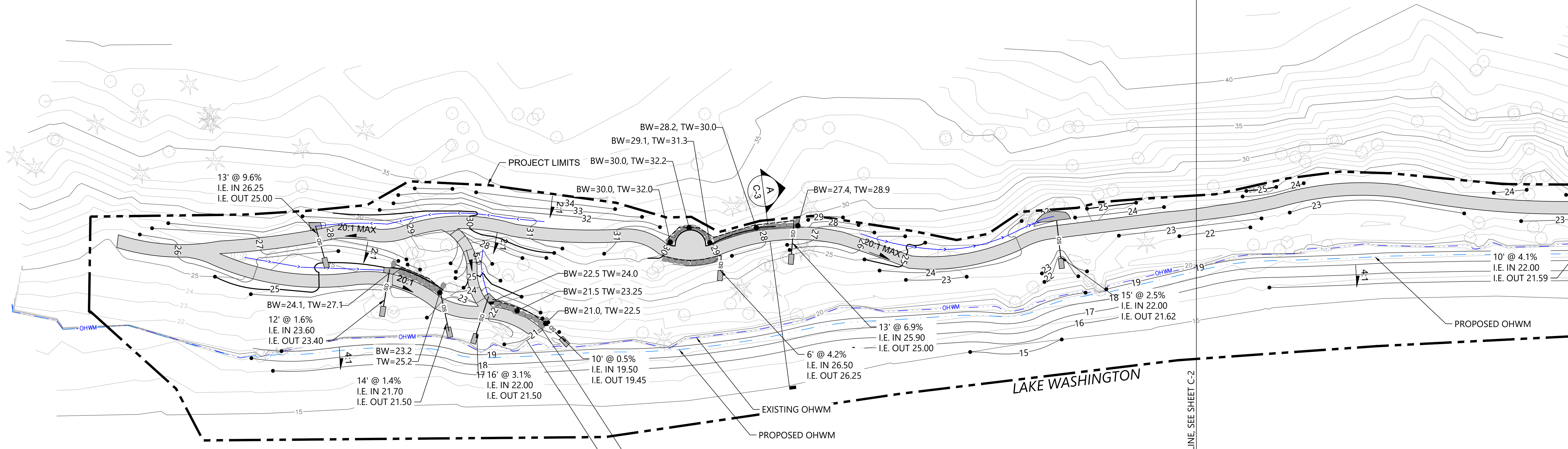
LUTHER BURBANK SOUTH SHORELINE RESTORATION

DEMOLITION, CLEARING, TESC DETAILS & NOTES

D-3

SHEET NO. 8 OF 21

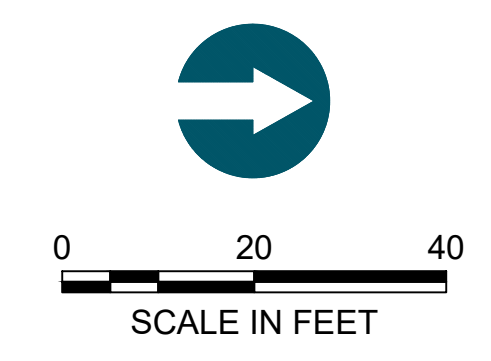
K:\Projects\1018-City of Mercer Island\Calkins Landing and Luther Burbank\03_South Shoreline\100% Design_2017\1018-PL-C001(Grading).dwg C-1
Oct 28, 2022 4:55pm chewett



LEGEND:

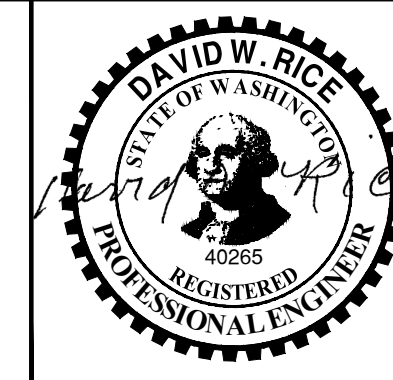
- PROJECT LIMIT
- 5
4 EXISTING CONTOUR IN FEET
- 20
19 PROPOSED CONTOUR IN FEET
- EXISTING OHWM (18.67')
- PROPOSED OHWM
- PROPOSED PATHWAY 3
CM-3
- PROPOSED ROCK WALL 1
CM-3
- SWALE FLOW LINE AND DIRECTION
- CROSS SECTION LOCATION
- SD 6" DIA. HDPE TRAIL CULVERT, BEVEL ENDS PER 4
CM-3
- PERFORATED ROCK WALL DRAIN 1
CM-3
- EROSION PROTECTION 4
CM-3

ABBREVIATIONS:
 BW BOTTOM OF WALL
 TW TOP OF WALL
 I.E. INVERT ELEVATION



- NOTES:**
- HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD 83, U.S. FEET.
 - VERTICAL DATUM: NAVD 88
 - BOTTOM OF WALL (BW) ELEVATIONS SHOWN REPRESENT FINISHED GRADE AT BOTTOM OF WALL.
 - PLACE AND COMPACT EXCESS EXCAVATED SOILS WITHIN THE AREAS CLEARED FOR TRAIL CONSTRUCTION, TREE REMOVAL, AND INVASIVE PLANT REMOVAL AS SHOWN ON DRAWINGS D-1 AND D-2 AND AS DIRECTED BY THE OWNER'S ENGINEER. THE OWNER'S ENGINEER SHALL APPROVE PLACEMENT OF EXCESS EXCAVATED MATERIALS PRIOR TO FINAL GRADING AND STABILIZATION OF THE SITE.
 - PROTECT EXISTING TREES AND TREE ROOTS TO REMAIN. REFER TO SPECIFICATIONS FOR ADDITIONAL DIRECTION ON TREE PROTECTION REQUIREMENTS.

BID SET



REVISIONS				
REV	DATE	BY	APP'D	DESCRIPTION
1	2022/10	CH	DR	FINAL - FOR BID

DESIGNED BY: A. SPOONER
 DRAWN BY: C. HEWETT
 CHECKED BY: N. HIGGINS
 APPROVED BY: A. SPOONER/D. RICE
 SCALE: AS NOTED
 DATE: OCTOBER 2022

LUTHER BURBANK SOUTH SHORELINE RESTORATION

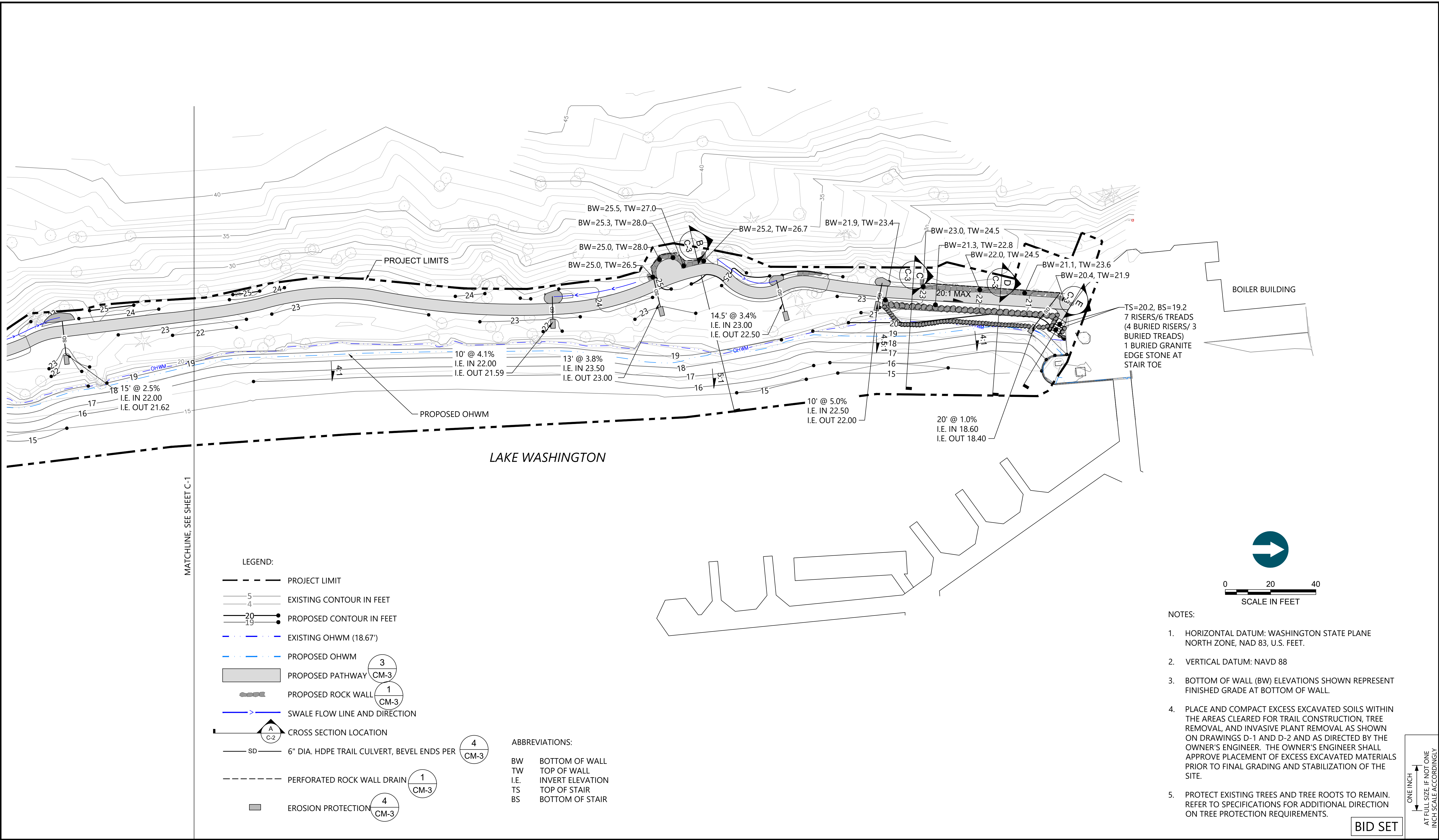
GRADING AND DRAINAGE PLAN

C-1

SHEET NO. 9 OF 21

ONE INCH
AT FULL SIZE IF NOT ONE
INCH SCALE ACCORDINGLY

K:\Projects\1018-City of Mercer Island\Callkins Landing and Luther Burbank\100% Design_2017\1018-PL-C001(Grading).dwg, C-2
 Oct. 28, 2022, 4:55pm chewart

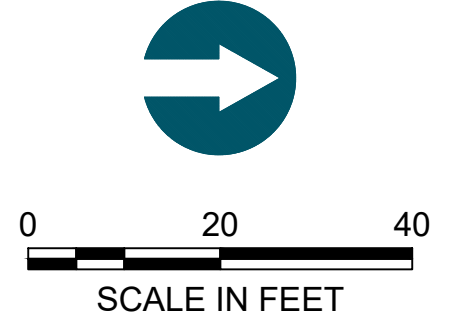


MATCHLINE, SEE SHEET C-1

LEGEND:

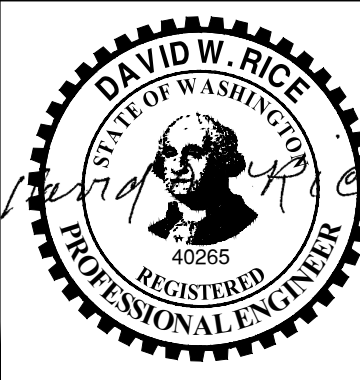
- PROJECT LIMIT
- EXISTING CONTOUR IN FEET
- PROPOSED CONTOUR IN FEET
- EXISTING OHWM (18.67')
- PROPOSED OHWM
- PROPOSED PATHWAY 3 CM-3
- PROPOSED ROCK WALL 1 CM-3
- SWALE FLOW LINE AND DIRECTION
- A C-2 CROSS SECTION LOCATION
- 6" DIA. HDPE TRAIL CULVERT, BEVEL ENDS PER 4 CM-3
- PERFORATED ROCK WALL DRAIN 1 CM-3
- EROSION PROTECTION 4 CM-3

ABBREVIATIONS:
 BW BOTTOM OF WALL
 TW TOP OF WALL
 I.E. INVERT ELEVATION
 TS TOP OF STAIR
 BS BOTTOM OF STAIR



- NOTES:**
1. HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD 83, U.S. FEET.
 2. VERTICAL DATUM: NAVD 88
 3. BOTTOM OF WALL (BW) ELEVATIONS SHOWN REPRESENT FINISHED GRADE AT BOTTOM OF WALL.
 4. PLACE AND COMPACT EXCESS EXCAVATED SOILS WITHIN THE AREAS CLEARED FOR TRAIL CONSTRUCTION, TREE REMOVAL, AND INVASIVE PLANT REMOVAL AS SHOWN ON DRAWINGS D-1 AND D-2 AND AS DIRECTED BY THE OWNER'S ENGINEER. THE OWNER'S ENGINEER SHALL APPROVE PLACEMENT OF EXCESS EXCAVATED MATERIALS PRIOR TO FINAL GRADING AND STABILIZATION OF THE SITE.
 5. PROTECT EXISTING TREES AND TREE ROOTS TO REMAIN. REFER TO SPECIFICATIONS FOR ADDITIONAL DIRECTION ON TREE PROTECTION REQUIREMENTS.

BID SET



REVISIONS				
REV	DATE	BY	APP'D	DESCRIPTION
1	2022/10	CH	DR	FINAL - FOR BID

DESIGNED BY: A. SPOONER
 DRAWN BY: C. HEWETT
 CHECKED BY: N. HIGGINS
 APPROVED BY: A. SPOONER/D. RICE
 SCALE: AS NOTED
 DATE: OCTOBER 2022

LUTHER BURBANK SOUTH SHORELINE RESTORATION

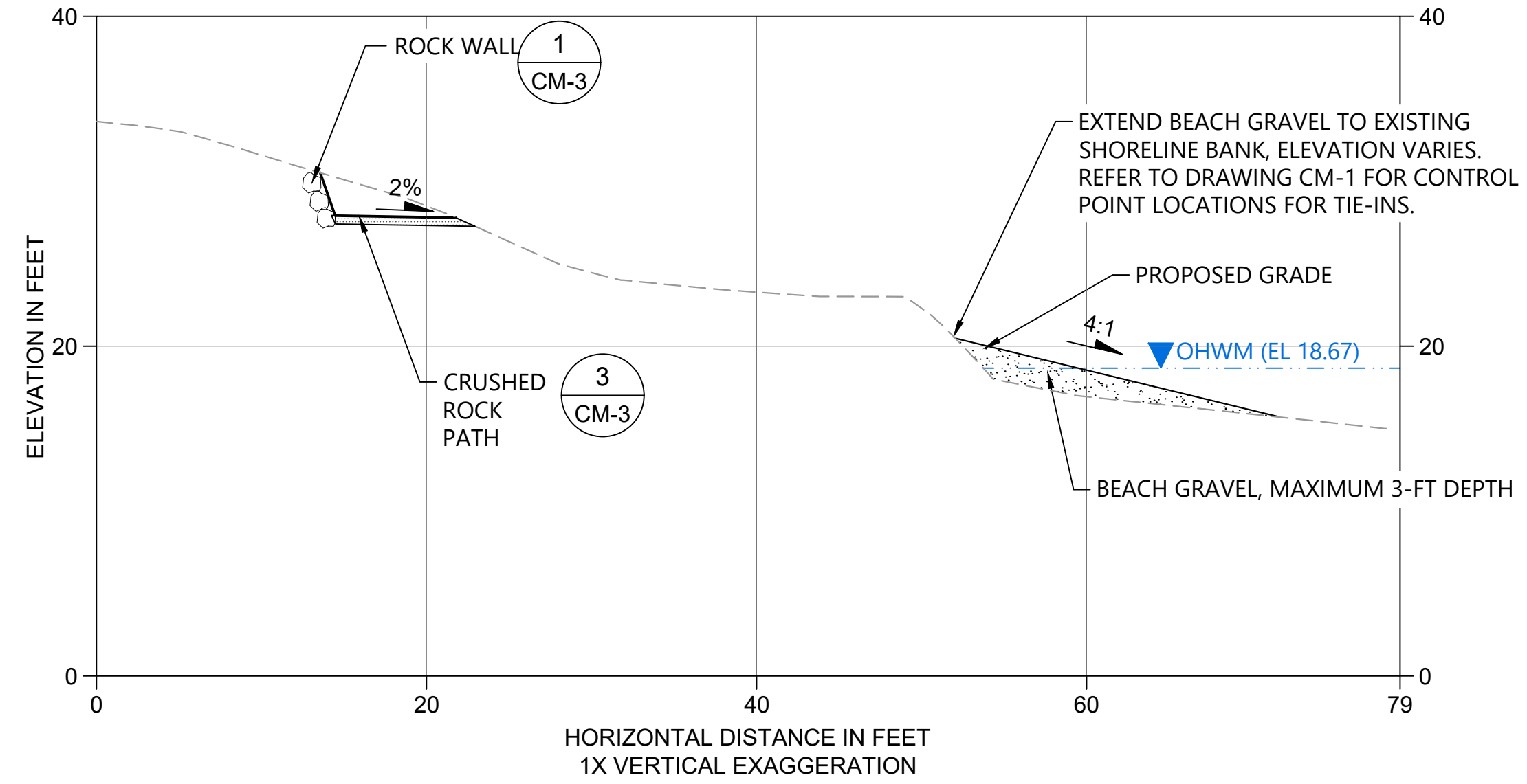
GRADING AND DRAINAGE PLAN

C-2

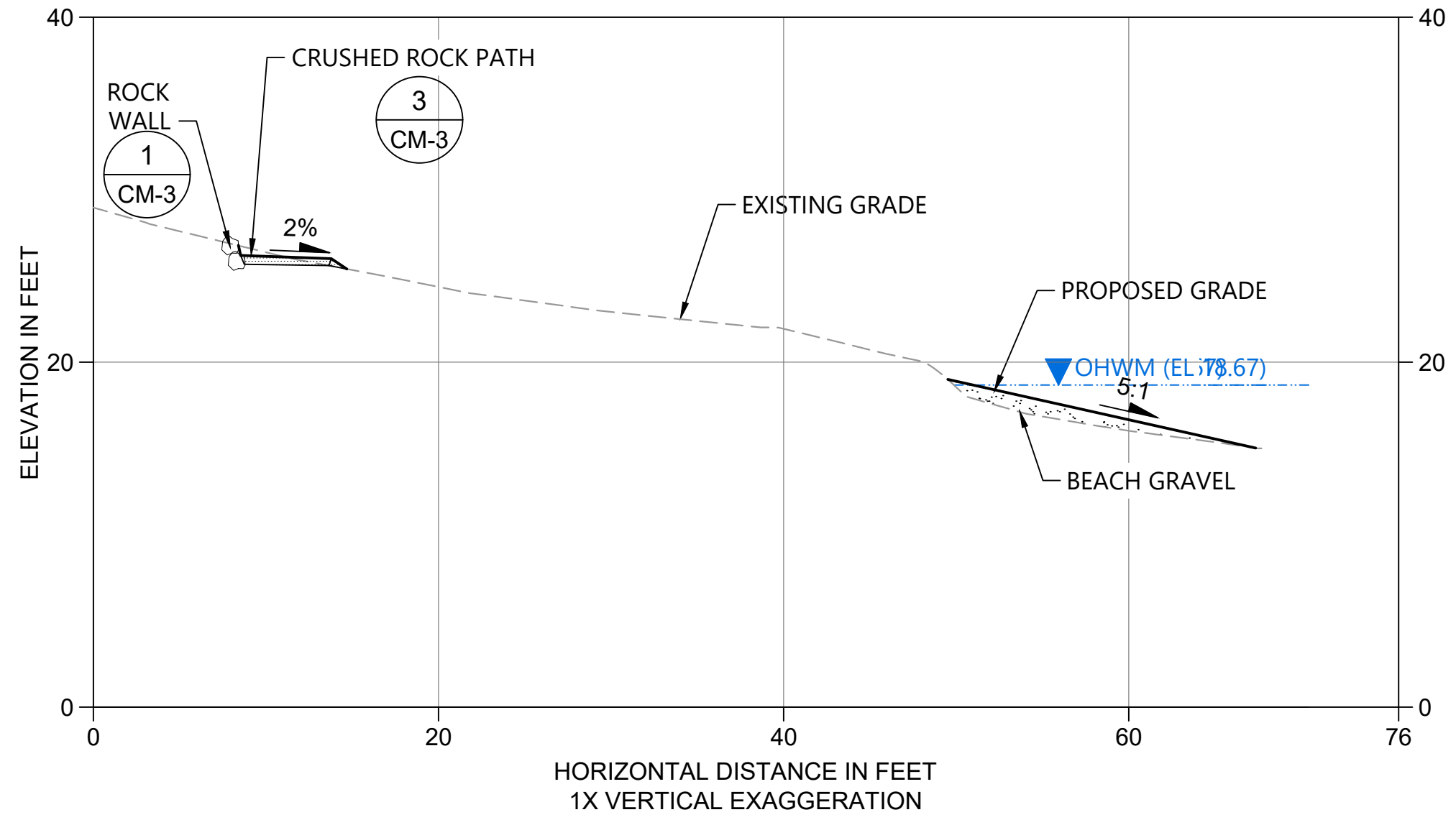
SHEET NO. 10 OF 21

ONE INCH
 AT FULL SIZE IF NOT ONE
 INCH SCALE ACCORDINGLY

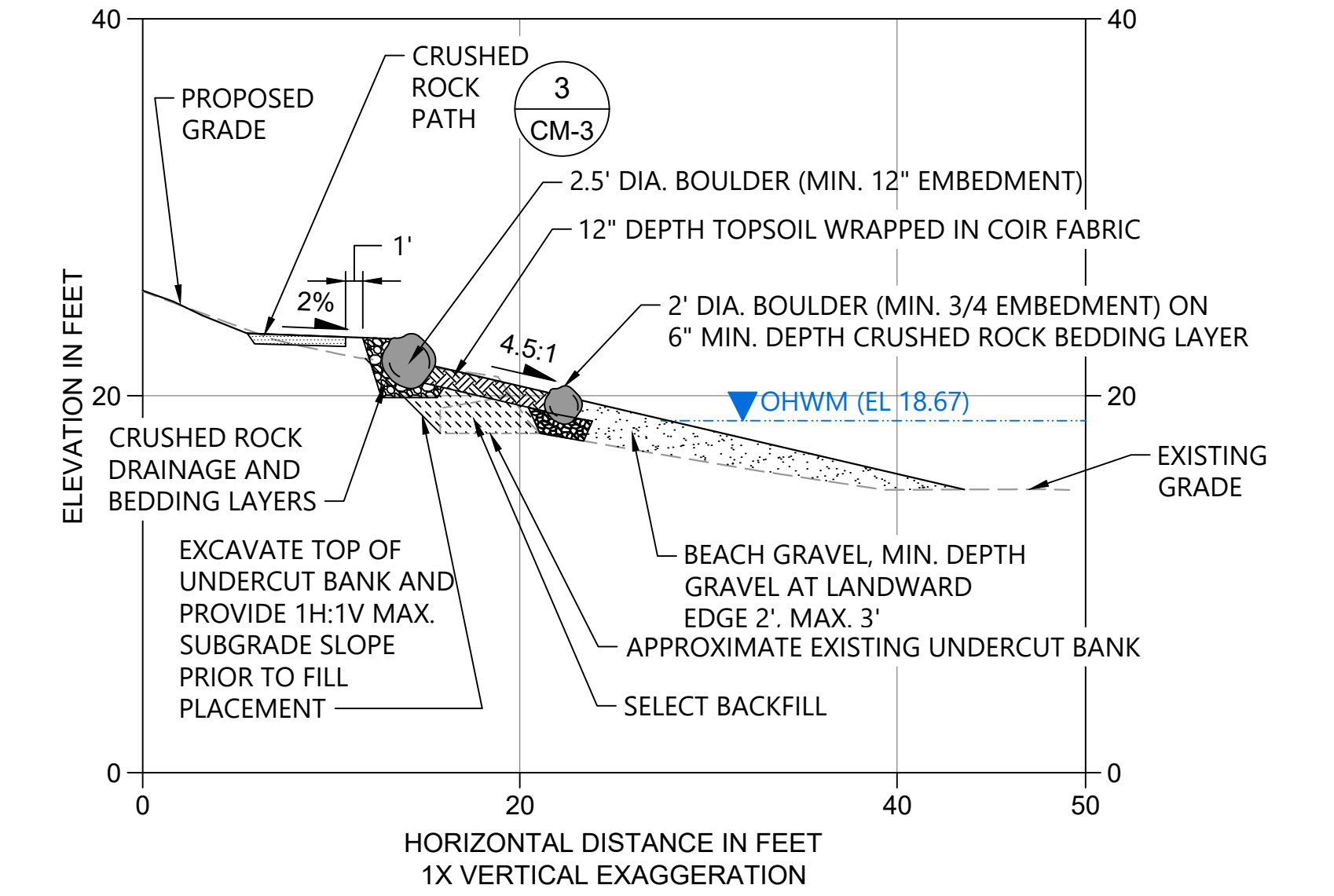
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 Oct. 28, 2022, 4:55pm chewett



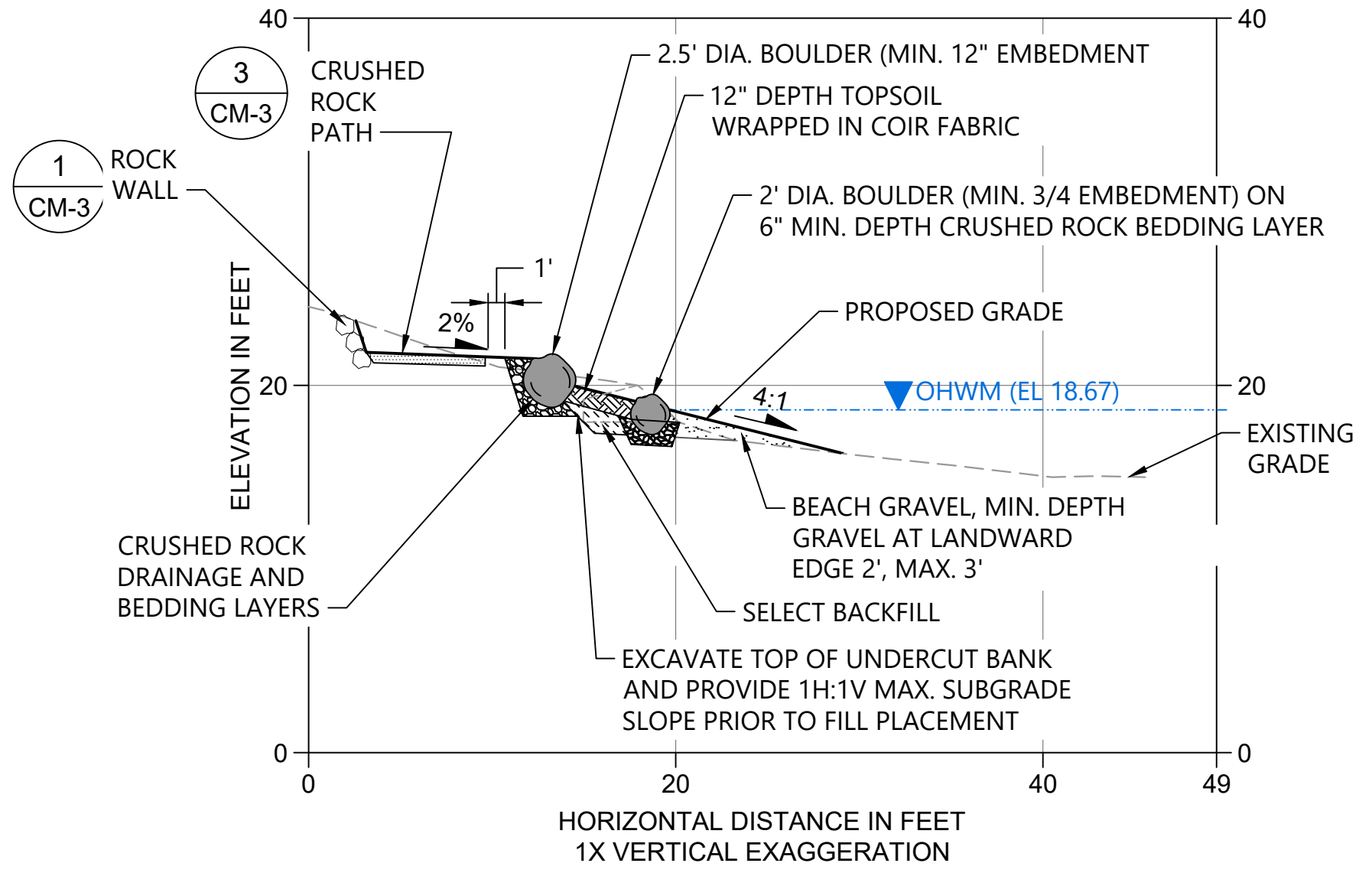
A SECTION A
 C-1 SCALE: 1" = 8'



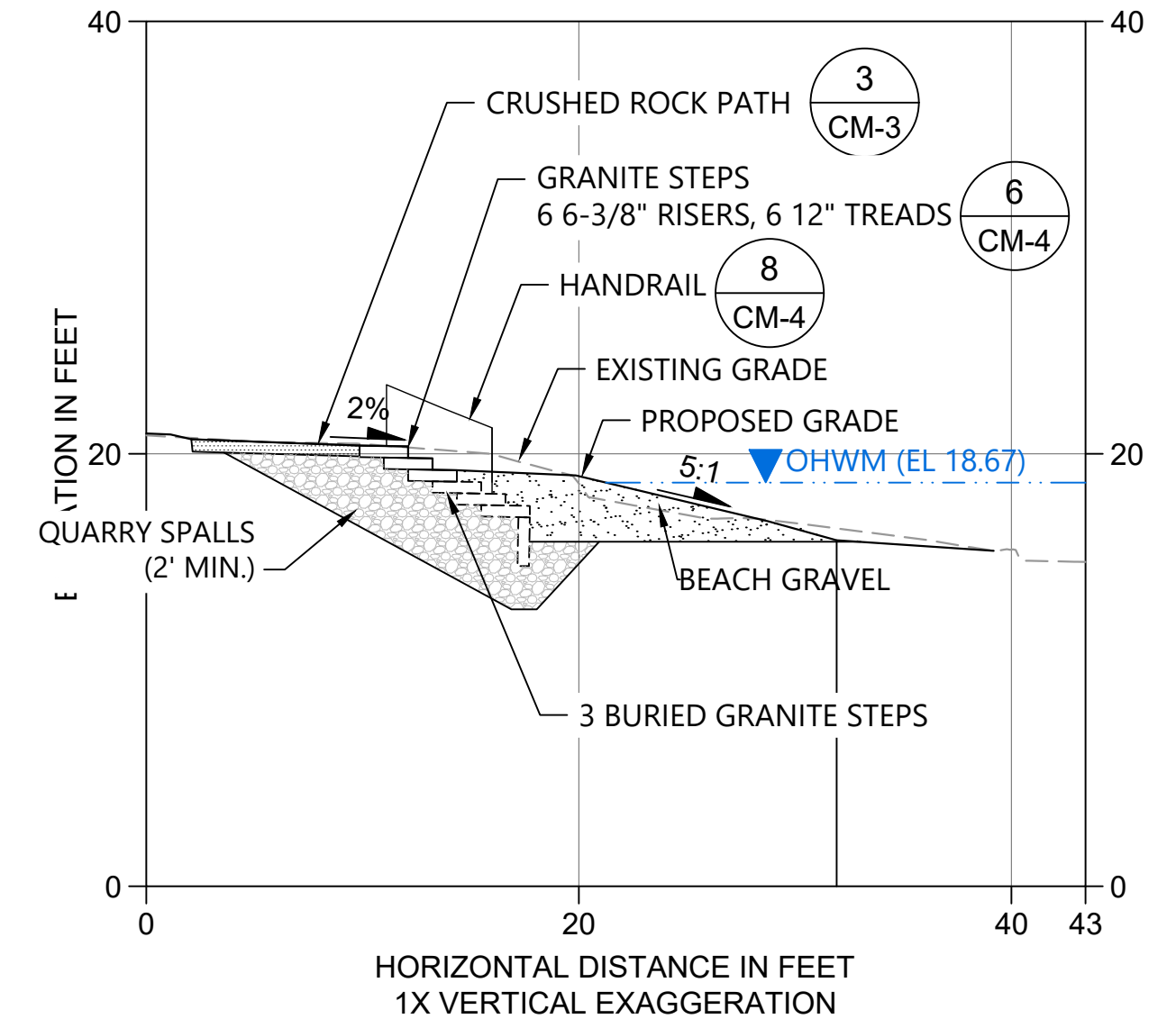
B SECTION B
 C-2 SCALE: 1" = 8'



C SECTION C
 C-2 SCALE: 1" = 8'



D SECTION D
 C-2 SCALE: 1" = 8'

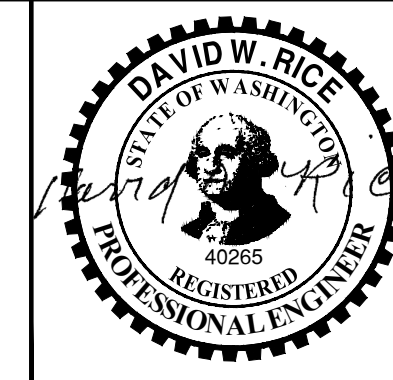


E SECTION E
 C-2 SCALE: 1" = 8'

- NOTES:
- HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD 83, U.S. FEET.
 - VERTICAL DATUM: NAVD 88

ONE INCH
 AT FULL SIZE IF NOT ONE INCH SCALE ACCORDINGLY

BID SET



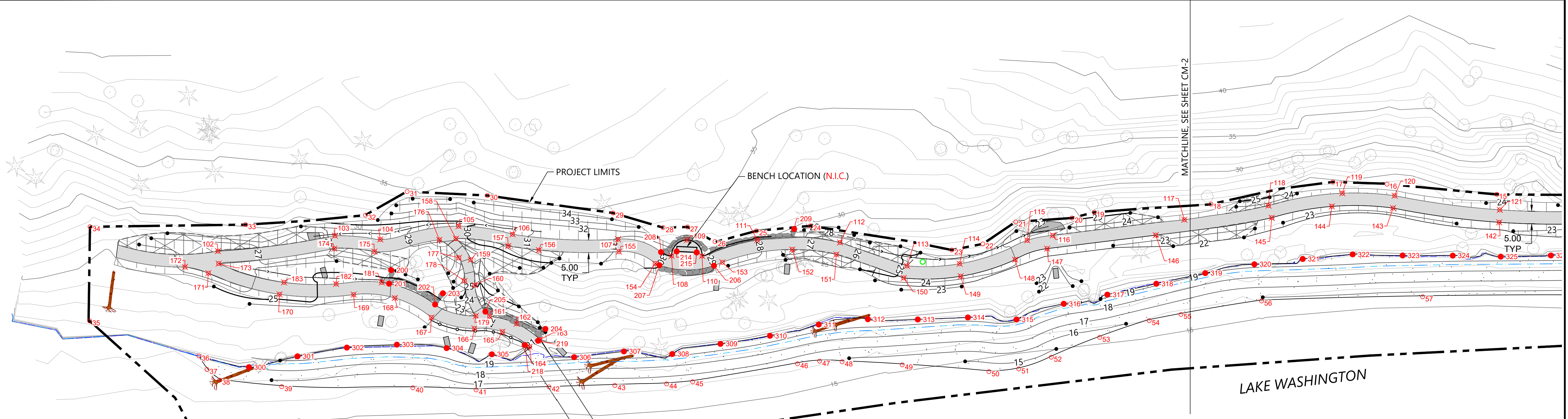
REVISIONS				
REV	DATE	BY	APP'D	DESCRIPTION
1	2022/10	CH	DR	FINAL - FOR BID

DESIGNED BY: A. SPOONER
 DRAWN BY: C. HEWETT
 CHECKED BY: N. HIGGINS
 APPROVED BY: A. SPOONER/D. RICE
 SCALE: AS NOTED
 DATE: OCTOBER 2022

LUTHER BURBANK SOUTH SHORELINE RESTORATION

GRADING CROSS SECTIONS

C-3



LAKE WASHINGTON

MATCHLINE SEE SHEET CM-2

CONTROL POINTS - PROJECT LIMITS		
POINT #	NORTHING	EASTING
1	218573.7	1297131.1
2	218568.9	1297143.2
3	218548.7	1297135.8
4	218544.2	1297151.4
5	218514.2	1297144.1
6	218503.8	1297148.9
7	218452.0	1297146.0
8	218436.2	1297146.1
9	218425.4	1297141.6
10	218407.3	1297138.0
11	218394.2	1297135.8
12	218384.4	1297137.4
13	218378.4	1297148.1
14	218328.9	1297155.9
15	218301.4	1297155.7
16	218257.6	1297151.6
17	218236.0	1297150.7
18	218187.4	1297159.6
19	218140.8	1297162.9
20	218131.9	1297165.1
21	218109.5	1297166.7
22	218096.4	1297175.5
23	218084.0	1297177.9
24	218027.5	1297168.3
25	218006.0	1297170.3
26	217989.5	1297174.6
27	217978.5	1297168.7
28	217968.8	1297169.0
29	217948.8	1297163.1

CONTROL POINTS - PROJECT LIMITS		
POINT #	NORTHING	EASTING
30	217898.7	1297156.1
31	217866.6	1297154.6
32	217850.0	1297164.0
33	217802.2	1297167.8
34	217740.1	1297168.6
35	217740.0	1297206.2
36	217783.6	1297220.2
37	217786.8	1297225.6
38	217791.8	1297229.9
39	217816.6	1297232.5
40	217868.9	1297232.9
41	217894.2	1297233.8
42	217923.2	1297232.6
43	217949.5	1297232.0
44	217970.2	1297231.4
45	217980.6	1297230.5
46	218022.4	1297223.3
47	218031.2	1297222.3
48	218040.2	1297222.5
49	218064.2	1297223.8
50	218098.8	1297226.5
51	218110.7	1297225.4
52	218123.7	1297220.7
53	218143.0	1297212.8
54	218162.7	1297206.1
55	218175.4	1297203.6
56	218207.6	1297198.3
57	218271.8	1297196.6
58	218336.1	1297196.2

CONTROL POINTS - PROJECT LIMITS		
POINT #	NORTHING	EASTING
59	218353.2	1297197.4
60	218392.4	1297202.3
61	218420.6	1297203.0
62	218448.1	1297198.5
63	218456.8	1297193.4
64	218497.8	1297193.7
65	218514.5	1297191.3
66	218528.7	1297185.9
67	218536.2	1297185.5
68	218551.9	1297187.4
69	218556.2	1297193.0
70	218558.8	1297187.2
71	218561.5	1297185.6
72	218567.7	1297185.3
73	218567.2	1297179.6
74	218568.7	1297179.3
75	218582.8	1297134.8

CONTROL POINTS - PATH		
POINT #	NORTHING	EASTING
100	218569.0	1297163.1
101	218567.6	1297165.1
102	217791.2	1297178.3
103	217837.8	1297172.2
104	217856.0	1297173.7
105	217887.2	1297168.4
106	217908.8	1297171.6
107	217950.8	1297173.6
108	217972.2	1297180.3
109	217978.3	1297173.9
110	217984.4	1297180.3
111	218006.4	1297173.9
112	218039.4	1297174.9
113	218066.1	1297184.2
114	218087.1	1297183.4
115	218114.1	1297174.0
116	218124.3	1297172.0
117	218176.8	1297165.8
118	218210.3	1297160.2
119	218239.8	1297155.2
120	218260.7	1297156.2
121	218302.6	1297161.9
122	218344.9	1297162.0
123	218386.2	1297150.9
124	218389.7	1297142.9
125	218397.6	1297146.8
126	218407.5	1297144.6
127	218418.8	1297148.8
128	218431.9	1297155.2

CONTROL POINTS - PATH		
POINT #	NORTHING	EASTING
129	218442.6	1297151.6
130	218454.5	1297150.4
131	218485.6	1297154.6
132	218469.1	1297157.7
133	218453.7	1297155.3
134	218446.6	1297155.5
135	218440.2	1297158.6
136	218426.5	1297159.6
137	218415.0	1297152.0
139	218384.1	1297157.4
140	218365.1	1297163.9
141	218345.2	1297167.0
142	218302.4	1297166.9
143	218260.0	1297161.2
144	218235.6	1297160.5
145	218211.6	1297165.0
146	218165.4	1297172.0
147	218122.0	1297177.4
148	218109.3	1297181.8
149	218087.5	1297188.4
150	218064.8	1297189.1
151	218037.9	1297179.7
152	218020.3	1297177.7
153	217992.4	1297182.8
154	217965.6	1297183.3
155	217951.2	1297178.6
156	217919.2	1297178.0
157	217907.0	1297176.3
158	217886.1	1297173.4

CONTROL POINTS - PATH		
POINT #	NORTHING	EASTING
159	217892.1	1297181.8
160	217893.6	1297192.0
161	217899.5	1297204.4
162	217910.4	1297207.3
163	217919.6	1297213.7
164	217915.5	1297216.5
165	217904.7	1297210.5
166	217893.5	1297209.2
167	217876.3	1297204.8
168	217861.8	1297197.1
169	217845.3	1297195.7
170	217815.7	1297195.6
171	217787.3	1297187.2
172	217778.0	1297184.7
173	217791.5	1297183.3
174	217837.6	1297177.4
175	217853.6	1297178.6
176	217879.5	1297173.9
177	217887.3	1297181.0
178	217889.6	1297190.2
179	217894.1	1297204.2
181	217856.5	1297190.8
182	217838.3	1297191.4
183	217817.5	1297190.8

LEGEND (CONTROL)		
	CONTROL POINT (PROJECT LIMITS)	
	CONTROL POINT (PROPOSED PATH)	
	CONTROL POINT (PROPOSED FEATURE)	

CONTROL POINTS - MISCELLANEOUS			
POINT #	NORTHING	EASTING	DESCRIPTION
200	217860.3	1297185.9	WALL
201	217859.5	1297191.3	WALL
202	217877.8	1297199.7	WALL
203	217880.9	1297195.2	WALL
204	217921.8	1297209.4	WALL
205	217897.9	1297202.5	WALL
206	217989.1	1297184.2	WALL
207	217967.3	1297184.0	WALL
208	217968.0	1297178.8	WALL
209	218021.1	1297169.5	WALL
210	218382.7	1297152.5	WALL
211	218407.0	1297139.3	WALL
212	218448.1	1297149.7	WALL

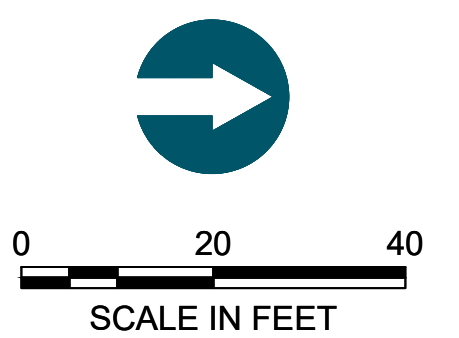
CONTROL POINTS - MISCELLANEOUS			
POINT #	NORTHING	EASTING	DESCRIPTION
213	218458.4	1297150.1	WALL
214	217974.2	1297178.5	BENCH
215	217982.2	1297178.9	BENCH
216	218387.3	1297148.6	BENCH
217	218394.7	1297145.6	BENCH
218	217913.6	1297215.8	COBBLE
219	217918.9	1297214.2	COBBLE
222	218503.0	1297154.8	WALL
223	218563.2	1297158.8	WALL
224	218530.0	1297163.4	WALL
225	218485.8	1297162.6	WALL
226	218494.0	1297171.5	WALL
227	218502.1	1297171.8	WALL

CONTROL POINTS - MISCELLANEOUS			
POINT #	NORTHING	EASTING	DESCRIPTION
228	218514.6	1297170.0	WALL
229	218550.7	1297172.3	WALL
230	218553.9	1297172.8	WALL
231	218560.6	1297172.9	WALL
232	218563.2	1297167.4	WALL
233	218564.4	1297167.0	STAIR
234	218567.8	1297169.0	STAIR
235	218559.3	1297175.6	STAIR
236	218562.7	1297177.6	STAIR

LEGEND:	
	PROJECT LIMIT
	EXISTING CONTOUR IN FEET
	PROPOSED CONTOUR IN FEET
	EXISTING OHWM (18.67')
	PROPOSED OHWM
	EROSION PROTECTION
	LARGE WOODY DEBRIS

	TOPSOIL AMENDMENT AREA
	CRUSHED ROCK PATH (CM-3)
	SPLIT RAIL FENCE (N.I.C.) (CM-3)
	ROCK WALL (CM-3)
	TOPSOIL AMENDMENT AND JUTE FABRIC (N.I.C.) (L-3)
	FUTURE INTERPRETIVE SIGN LOCATION (N.I.C.)
	BEACH GRAVEL

- NOTES:
- 1. HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD 83, U.S. FEET.
 - 2. VERTICAL DATUM: NAVD 88
 - 3. SEE SHEET CM-2 FOR BEACH GRAVEL CONTROL POINT TABLE.



ONE INCH AT FULL SIZE IF NOT ONE INCH SCALE ACCORDINGLY

BID SET

Oct 28, 2022, 4:55pm chawatt K:\Projects\10-18-City of Mercer Island\Calkins Landing and Luther Burbank\03_South Shoreline\100%_Design_2017\10-18-PL-CM001 (Materials)_dwg_CM-1



REVISIONS					
REV	DATE	BY	APP'D	DESCRIPTION	
1	2022/10	CH	DR	FINAL - FOR BID	

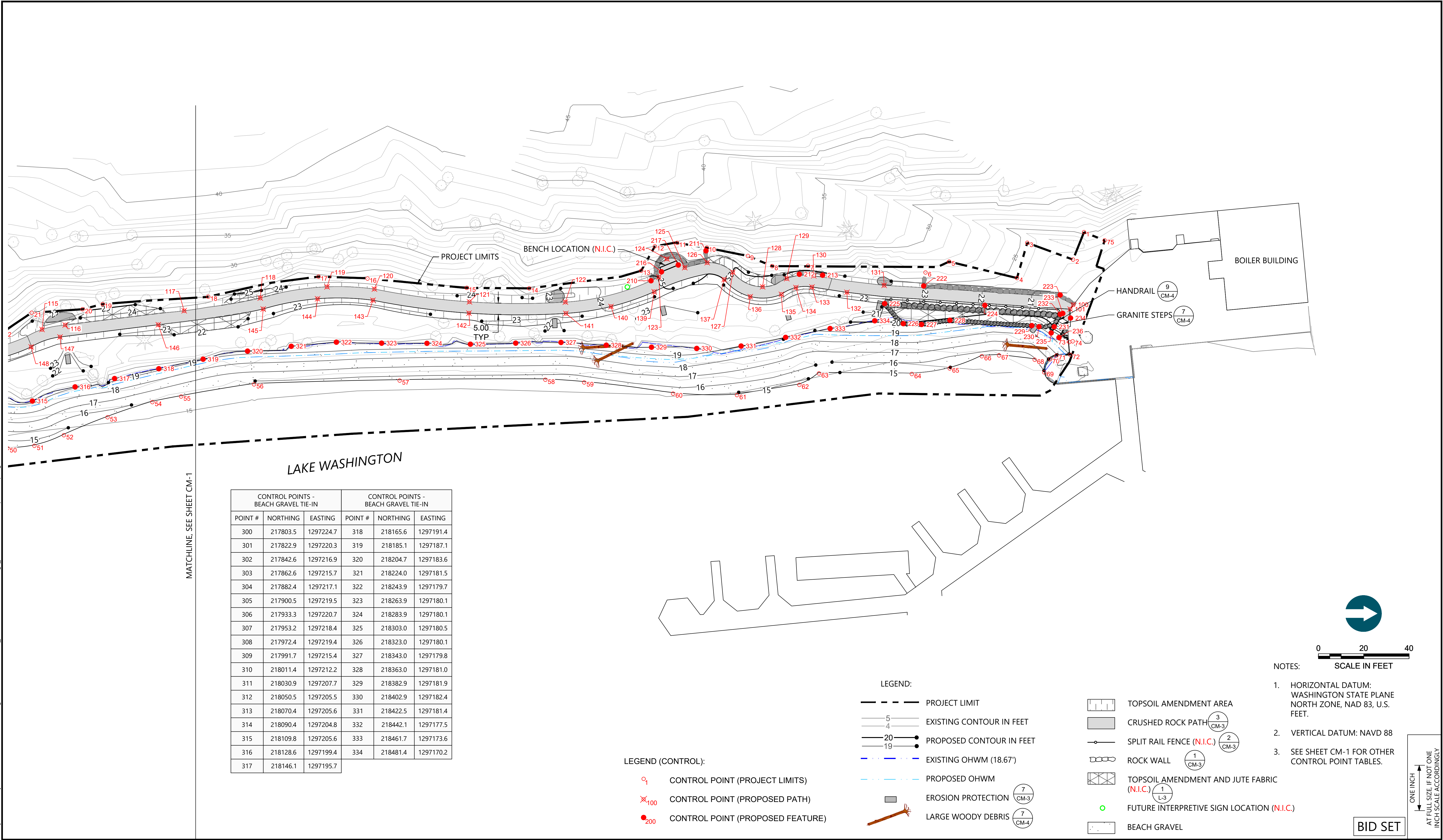
DESIGNED BY: **A. SPOONER**
 DRAWN BY: **C. HEWETT**
 CHECKED BY: **N. HIGGINS**
 APPROVED BY: **A. SPOONER/D. RICE**
 SCALE: **AS NOTED**
 DATE: **OCTOBER 2022**

LUTHER BURBANK SOUTH SHORELINE RESTORATION

CONSTRUCTION MATERIALS & LAYOUT PLAN

CM-1

K:\Projects\1018-City of Mercer Island\Callins Landing and Luther Burbank\03_South Shoreline\100% Design_2017\1018-PL-CM001 (Materials) Layr CM-2



MATCHLINE, SEE SHEET CM-1

CONTROL POINTS - BEACH GRAVEL TIE-IN			CONTROL POINTS - BEACH GRAVEL TIE-IN		
POINT #	NORTHING	EASTING	POINT #	NORTHING	EASTING
300	217803.5	1297224.7	318	218165.6	1297191.4
301	217822.9	1297220.3	319	218185.1	1297187.1
302	217842.6	1297216.9	320	218204.7	1297183.6
303	217862.6	1297215.7	321	218224.0	1297181.5
304	217882.4	1297217.1	322	218243.9	1297179.7
305	217900.5	1297219.5	323	218263.9	1297180.1
306	217933.3	1297220.7	324	218283.9	1297180.1
307	217953.2	1297218.4	325	218303.0	1297180.5
308	217972.4	1297219.4	326	218323.0	1297180.1
309	217991.7	1297215.4	327	218343.0	1297179.8
310	218011.4	1297212.2	328	218363.0	1297181.0
311	218030.9	1297207.7	329	218382.9	1297181.9
312	218050.5	1297205.5	330	218402.9	1297182.4
313	218070.4	1297205.6	331	218422.5	1297181.4
314	218090.4	1297204.8	332	218442.1	1297177.5
315	218109.8	1297205.6	333	218461.7	1297173.6
316	218128.6	1297199.4	334	218481.4	1297170.2
317	218146.1	1297195.7			

LEGEND (CONTROL):

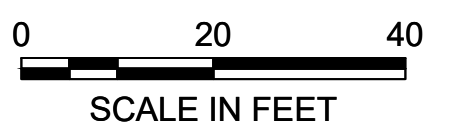
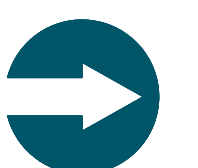
- CONTROL POINT (PROJECT LIMITS)
- ✕₁₀₀ CONTROL POINT (PROPOSED PATH)
- ₂₀₀ CONTROL POINT (PROPOSED FEATURE)

LEGEND:

- PROJECT LIMIT
- EXISTING CONTOUR IN FEET
- PROPOSED CONTOUR IN FEET
- EXISTING OHWM (18.67')
- PROPOSED OHWM
- EROSION PROTECTION
- LARGE WOODY DEBRIS
- TOPSOIL AMENDMENT AREA
- CRUSHED ROCK PATH
- SPLIT RAIL FENCE (N.I.C.)
- ROCK WALL
- TOPSOIL AMENDMENT AND JUTE FABRIC
- FUTURE INTERPRETIVE SIGN LOCATION (N.I.C.)
- BEACH GRAVEL

NOTES:

1. HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD 83, U.S. FEET.
2. VERTICAL DATUM: NAVD 88
3. SEE SHEET CM-1 FOR OTHER CONTROL POINT TABLES.



ONE INCH = 20 FEET
AT FULL SIZE IF NOT ONE INCH SCALE ACCORDINGLY

BID SET



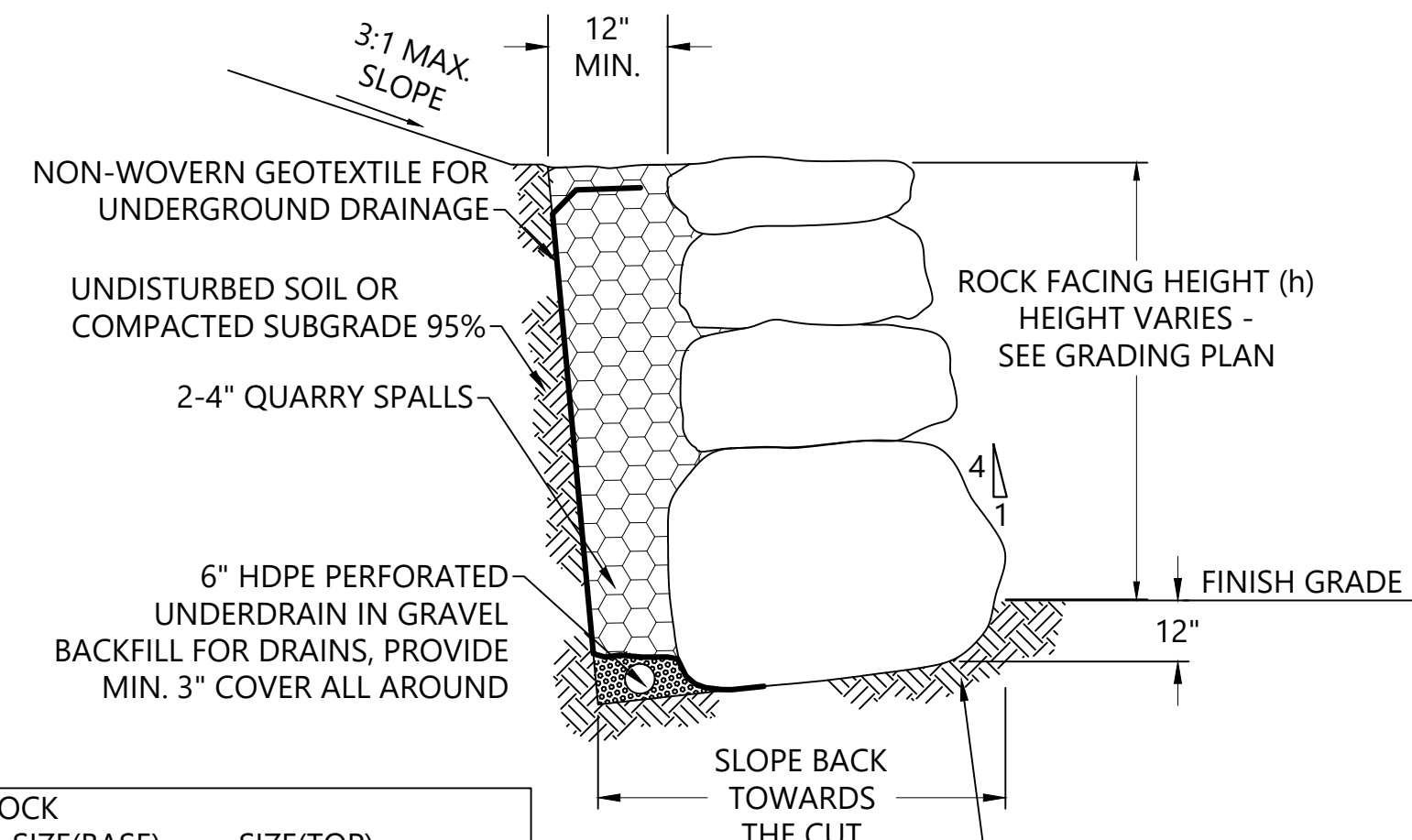
REVISIONS				
REV	DATE	BY	APP'D	DESCRIPTION
1	2022/10	CH	DR	FINAL - FOR BID

DESIGNED BY: A. SPOONER
 DRAWN BY: C. HEWETT
 CHECKED BY: N. HIGGINS
 APPROVED BY: A. SPOONER/D. RICE
 SCALE: AS NOTED
 DATE: OCTOBER 2022

LUTHER BURBANK SOUTH SHORELINE RESTORATION

CONSTRUCTION MATERIALS & LAYOUT PLAN

CM-2



(h)	MINIMUM ROCK (d)	SIZE(BASE)	SIZE(TOP)
2 FEET	12 INCHES	2-MAN	1-MAN
4 FEET	12 INCHES	3-MAN	2-MAN

ROCK FOR ROCK WALL SIZES ARE APPROXIMATE AS FOLLOWS:

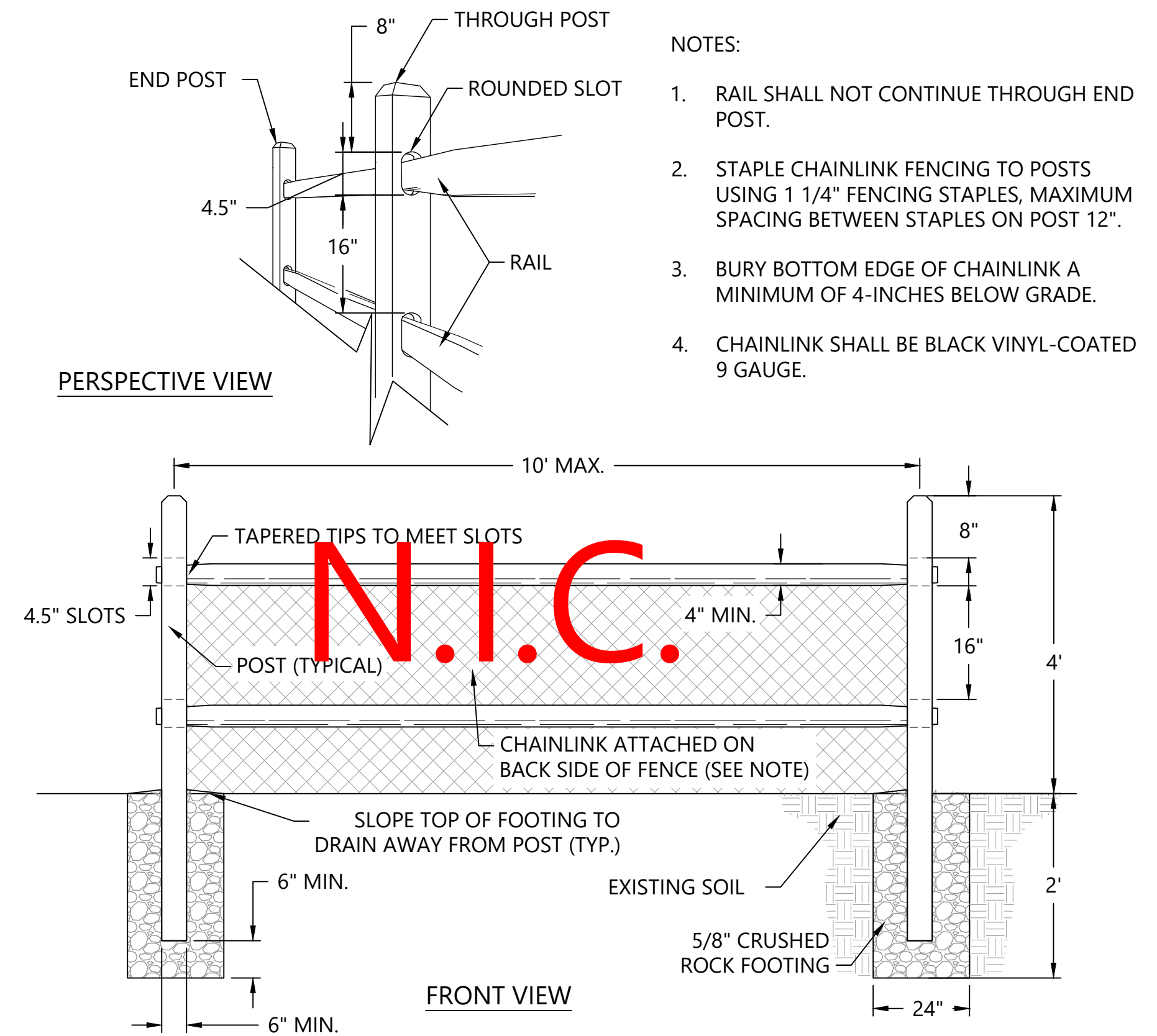
ROCK SIZE	ROCK WEIGHT (LBS.)	AVERAGE DIMENSION (IN.)
ONE MAN	50 - 200	12 - 18
TWO MAN	200 - 700	18 - 28
THREE MAN	700 - 2,000	28 - 36

NOTE: FROM WSDOT STANDARD SPECIFICATIONS 2006.

TYP. SECTION

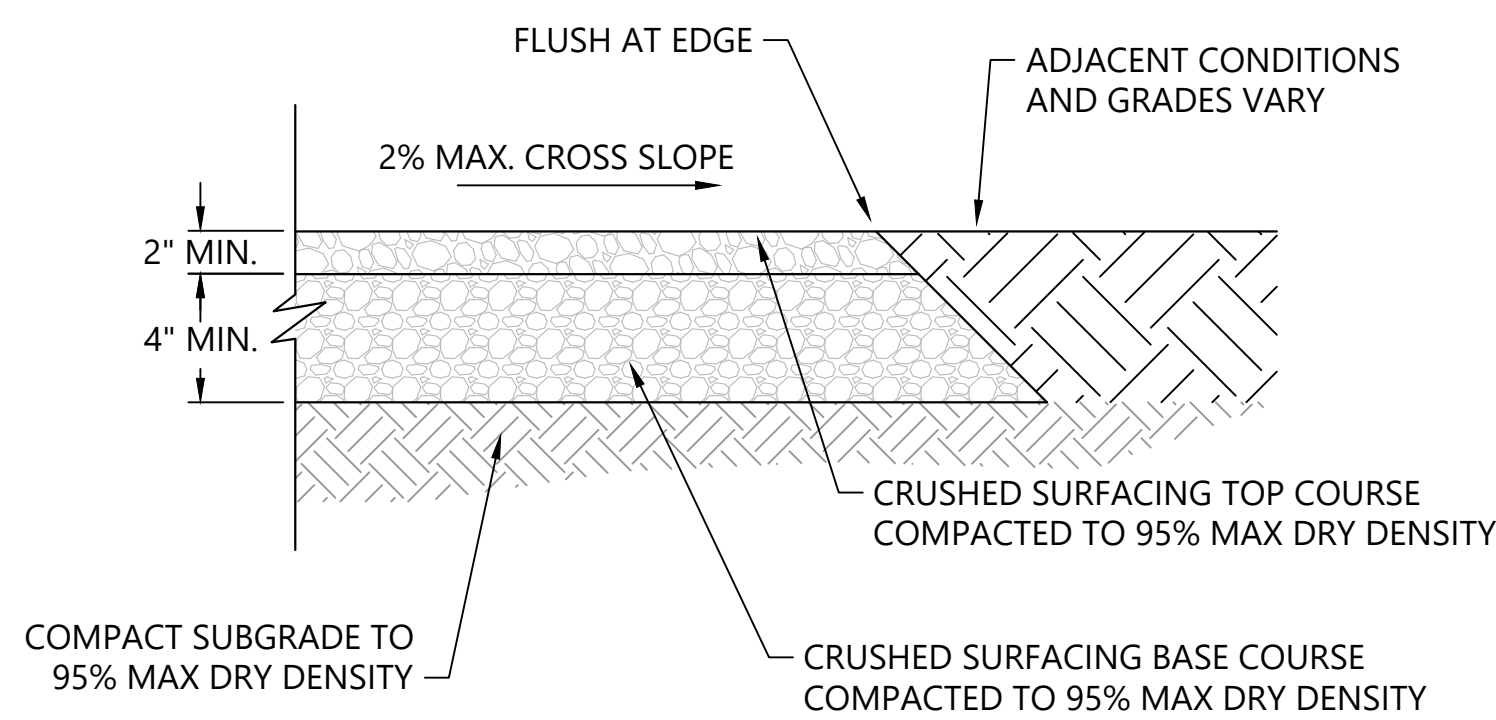
PROVIDE A FIRM AND NON-YIELDING FOUNDATION UNDER ALL ROCK WALLS. CONSULT ENGINEER IF UNSUITABLE SUBGRADE CONDITIONS ARE ENCOUNTERED DURING FOUNDATION PREPARATION.

1 ROCK WALL
CM-1/2 SCALE: 1"=1'



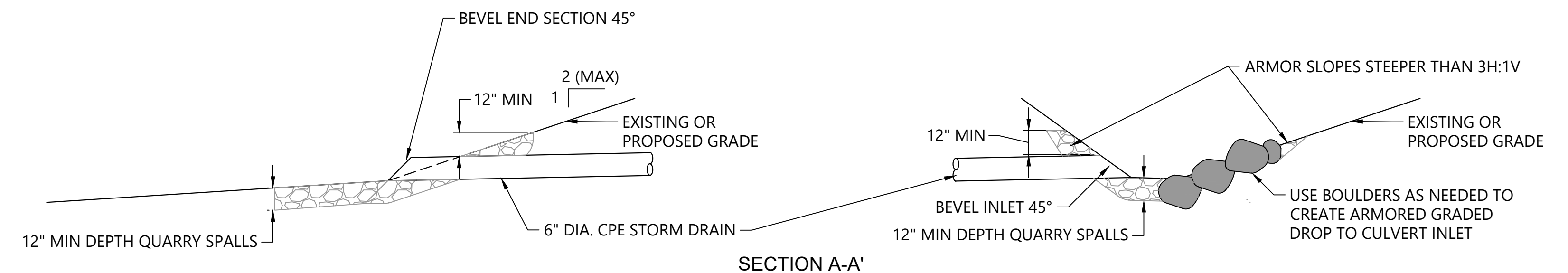
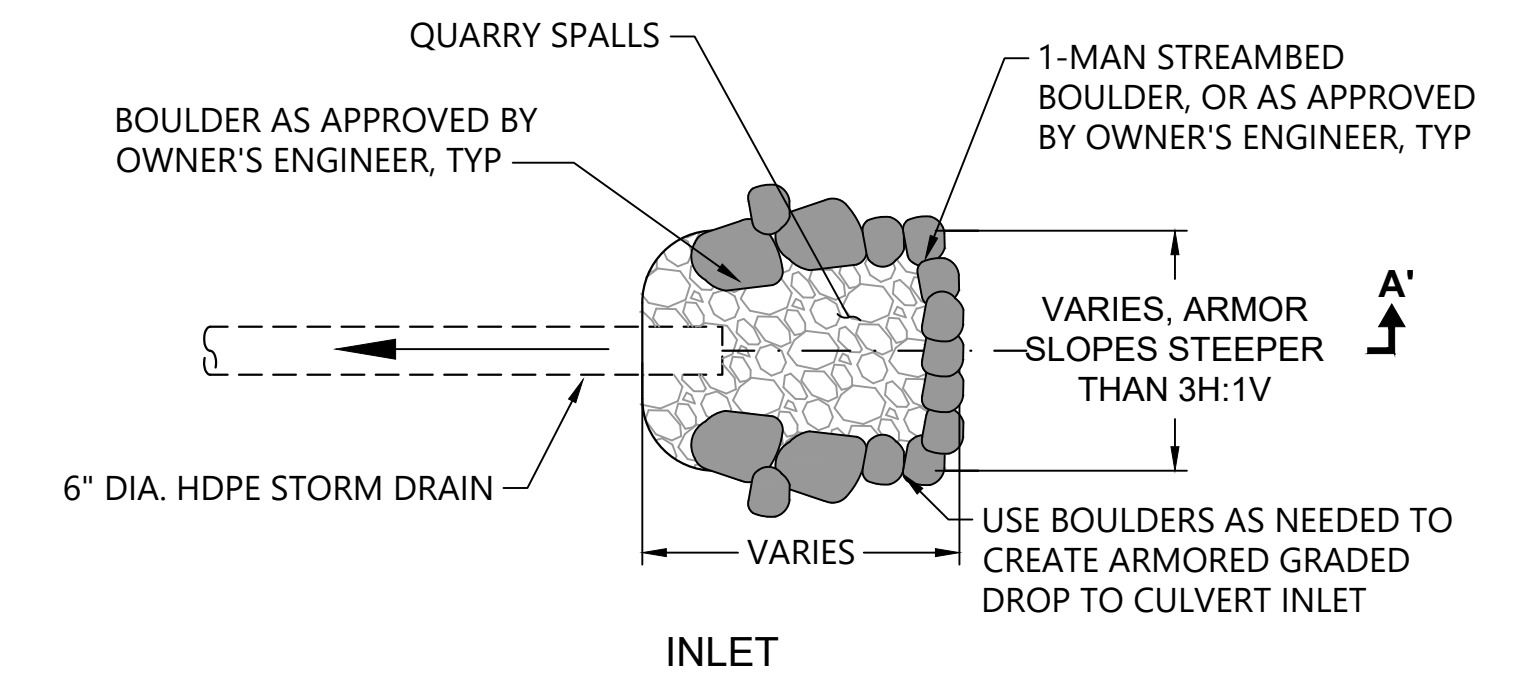
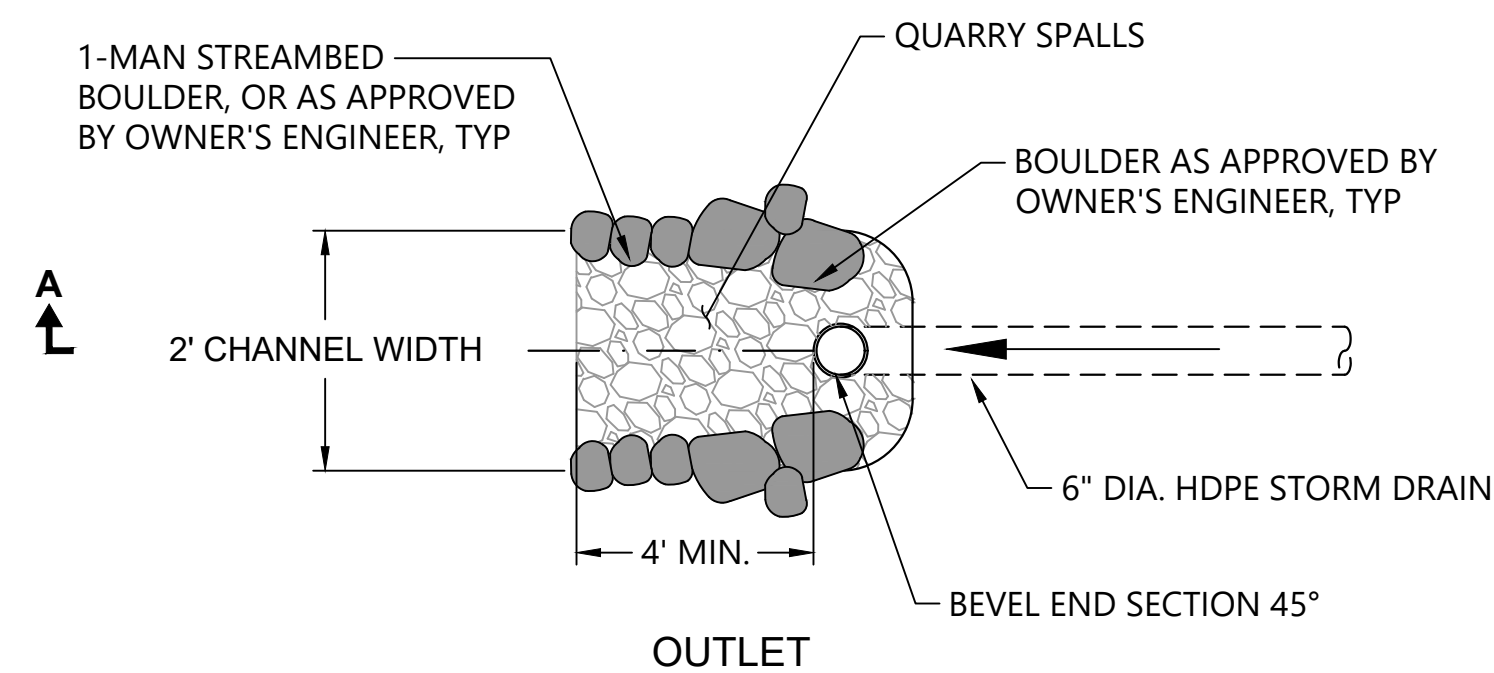
- NOTES:
- RAIL SHALL NOT CONTINUE THROUGH END POST.
 - STAPLE CHAINLINK FENCING TO POSTS USING 1 1/4" FENCING STAPLES, MAXIMUM SPACING BETWEEN STAPLES ON POST 12".
 - BURY BOTTOM EDGE OF CHAINLINK A MINIMUM OF 4-INCHES BELOW GRADE.
 - CHAINLINK SHALL BE BLACK VINYL-COATED 9 GAUGE.

2 SPLIT RAIL FENCE (N.I.C.)
CM-1/2 SCALE: 1"=1'



3 CRUSHED ROCK PATH
CM-1/2 SCALE: NOT TO SCALE

- NOTES:
- SEE SHEETS D-1 AND D-2 FOR CLEARING AND GRUBBING. ALL PATH CONSTRUCTION SHALL INCLUDE STANDARD CLEARING LIMITS AS FOLLOWS: BRUSH AND BRANCHES ABOVE 36" ABOVE GROUND LEVEL SHALL BE REMOVED TO A HT. OF 8' WITHIN 3' OF PATH. ALL VEGETATION BELOW 36" HT. SHALL BE CUT BACK TO THE WIDTH OF THE PATH. FALLEN LOGS SHALL BE CUT FLUSH AT THE EDGE OF THE PATH.
 - FOLLOWING CLEARING WITHIN THE DESIGNED PATH CORRIDOR, REMOVE ALL ROOTS AND ORGANIC DEBRIS TO A DEPTH OF 6" PRIOR TO IMPORTING CRUSHED ROCK. ESTABLISH DESIGN CROSS-SLOPE IN SUBGRADE MATERIALS, SLOPE OR CROWN AS DIRECTED.
 - IN AREAS OF SIGNIFICANT TREE ROOTS, EXCAVATE ONLY 4" TO SUBGRADE AND COMPACT. PROVIDE 4" BASE COURSE AND 2" TOP COURSE PER SPECIFICATION. ROLL/COMPACT EDGES OF FINISH PATH TO BLEND BACK TO ADJACENT GRADE. FINISHING GRADE OF PATH WILL BE FLUSH OR SLIGHTLY ELEVATED/CROWNED ABOVE ADJACENT SURFACES. REFER TO SPECIFICATIONS FOR ADDITIONAL DIRECTION ON TREE PROTECTION REQUIREMENTS.
 - IMPORT CRUSHED ROCK FOLLOWING APPROVAL OF PREPARED PATH BED. TAPER EDGES AT A 45° ANGLE INTO THE SUBGRADE. TOP COURSE FLUSH WITH FINISH GRADE. WHERE DESIRED, PROVIDE COMPLETE MECHANICAL COMPACTION. WHERE THIS IS IMPRACTICAL OR IMPOSSIBLE, COMPACT BY HAND WITH AN APPROPRIATELY WEIGHTED IMPLEMENT.
 - PERFORM SITE RESTORATION IMMEDIATELY UPON COMPLETION OF PATH WORK AND/OR RELATED DRAINAGE WORK OR AS DIRECTED BY THE ENGINEER.



4 TRAIL CULVERT AND EROSION PROTECTION
C-1/C-2 SCALE: 1"=4'

BID SET

K:\Projects\18-City of Mercer Island\Calkins Landing and Luther Burbank\03_South Shoreline\100%_Design_2017\1018-PL-CM001 (Materials) dwg CM-3 Oct 28, 2022 4:55pm chewett



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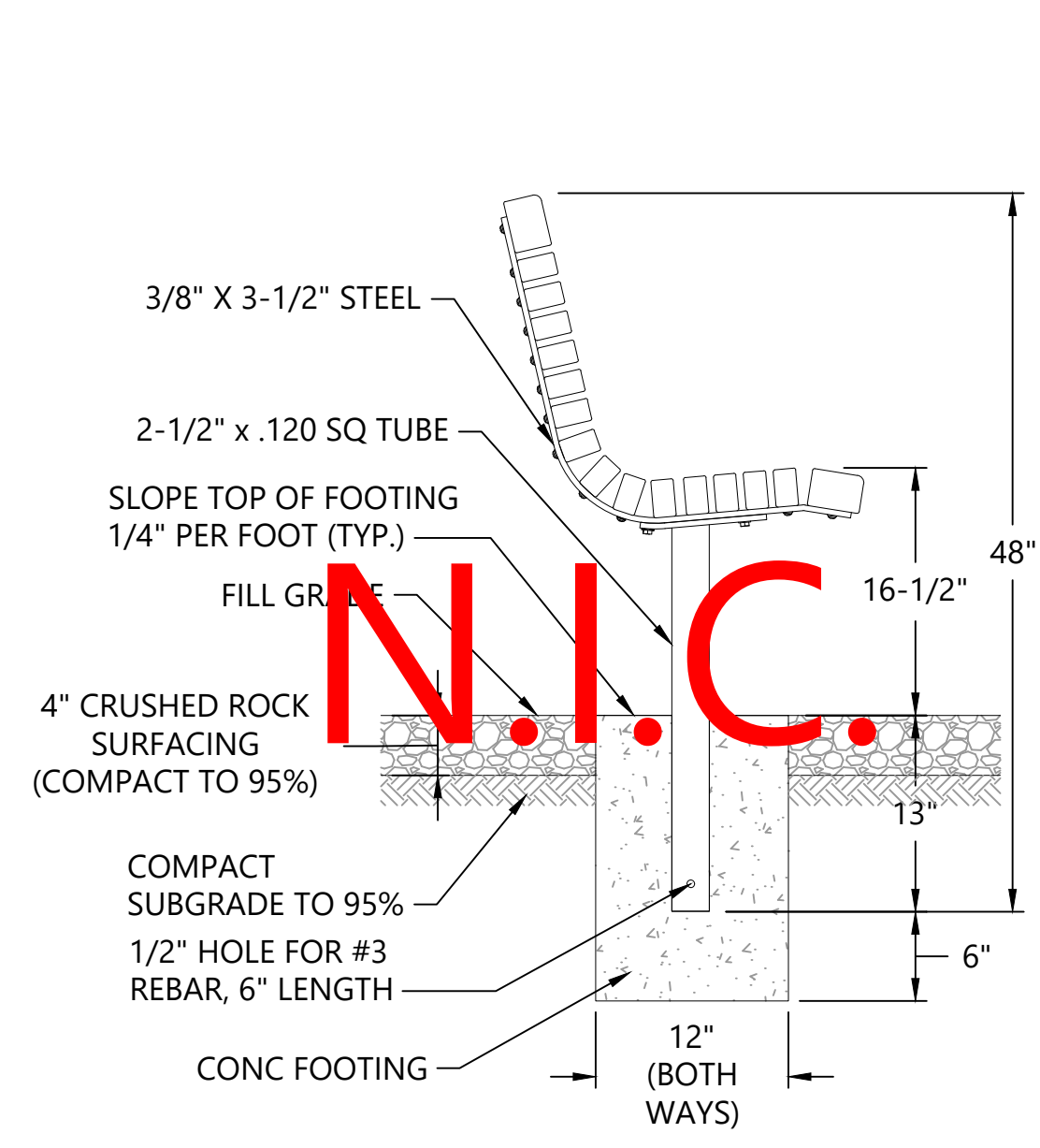
LUTHER BURBANK SOUTH SHORELINE RESTORATION

CONSTRUCTION DETAILS

CM-3

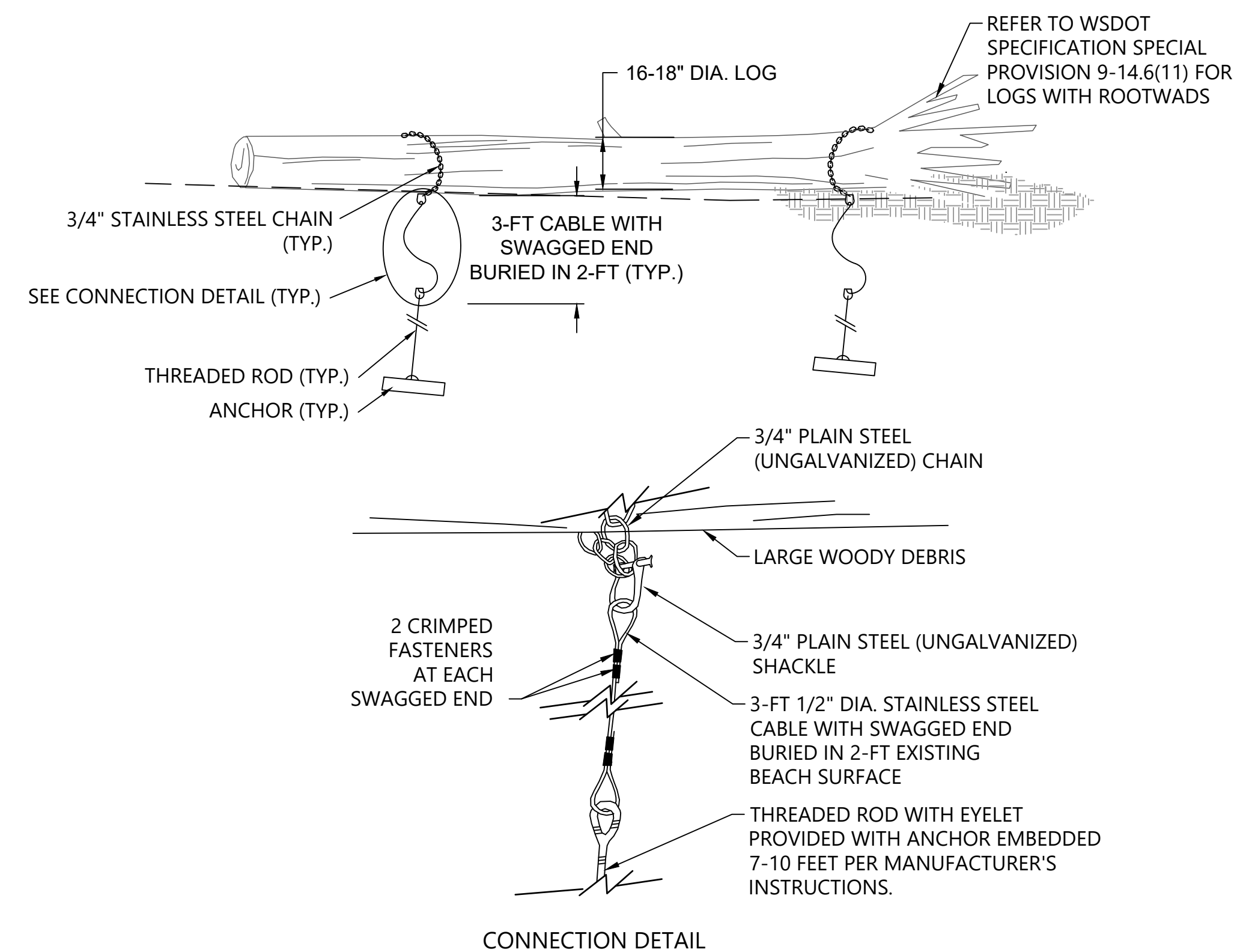
SHEET NO. 14 OF 21

ONE INCH AT FULL SIZE IF NOT ONE INCH SCALE ACCORDINGLY

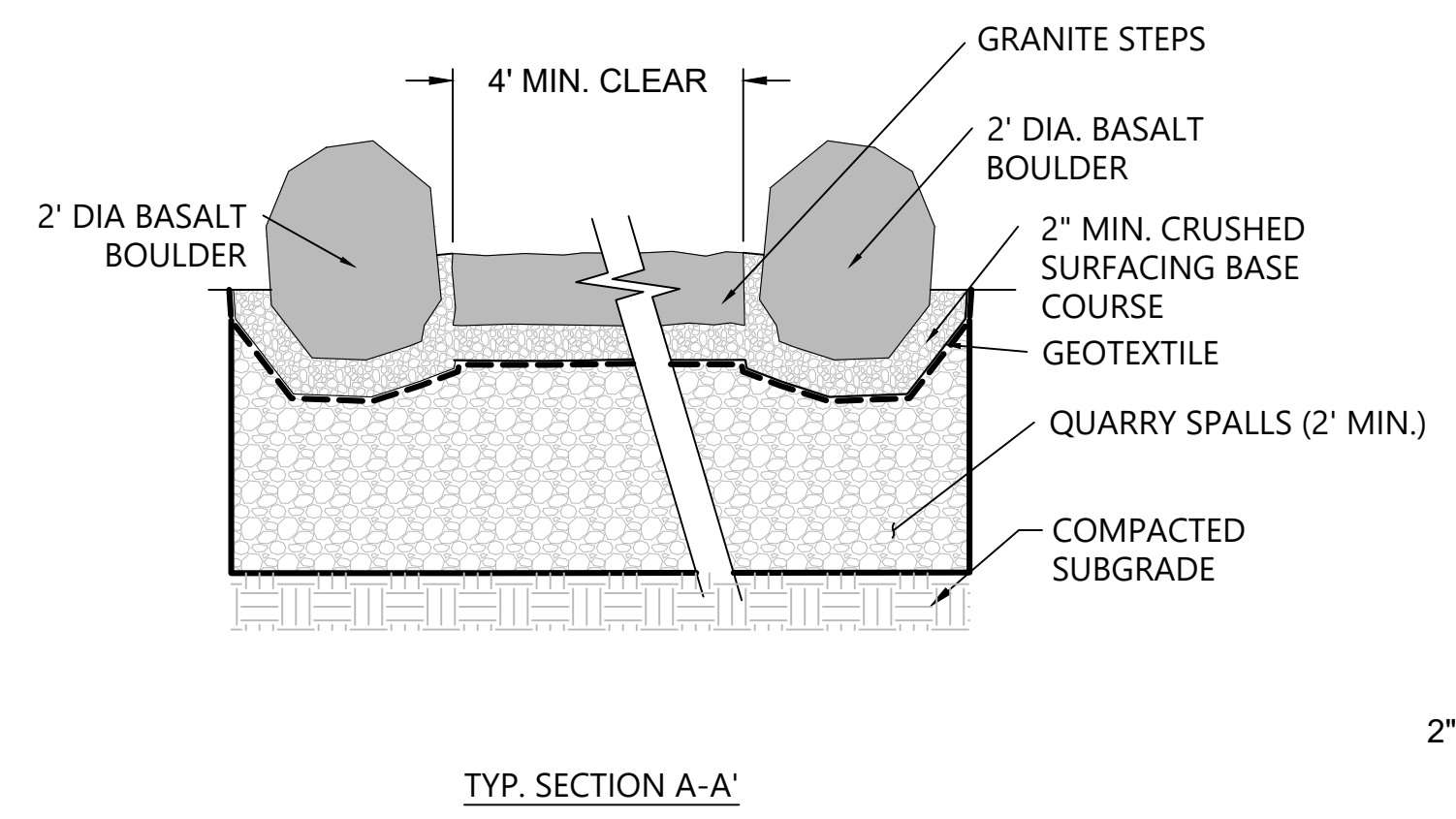


N.I.C.

5 EMBED-MOUNTED BENCH (N.I.C.)
 SCALE: 1" = 1'
 NOTES:
 1. TRANSIT BENCH BY TOUNESOL.
 2. BENCHES TO BE INSTALLED BY OWNER.

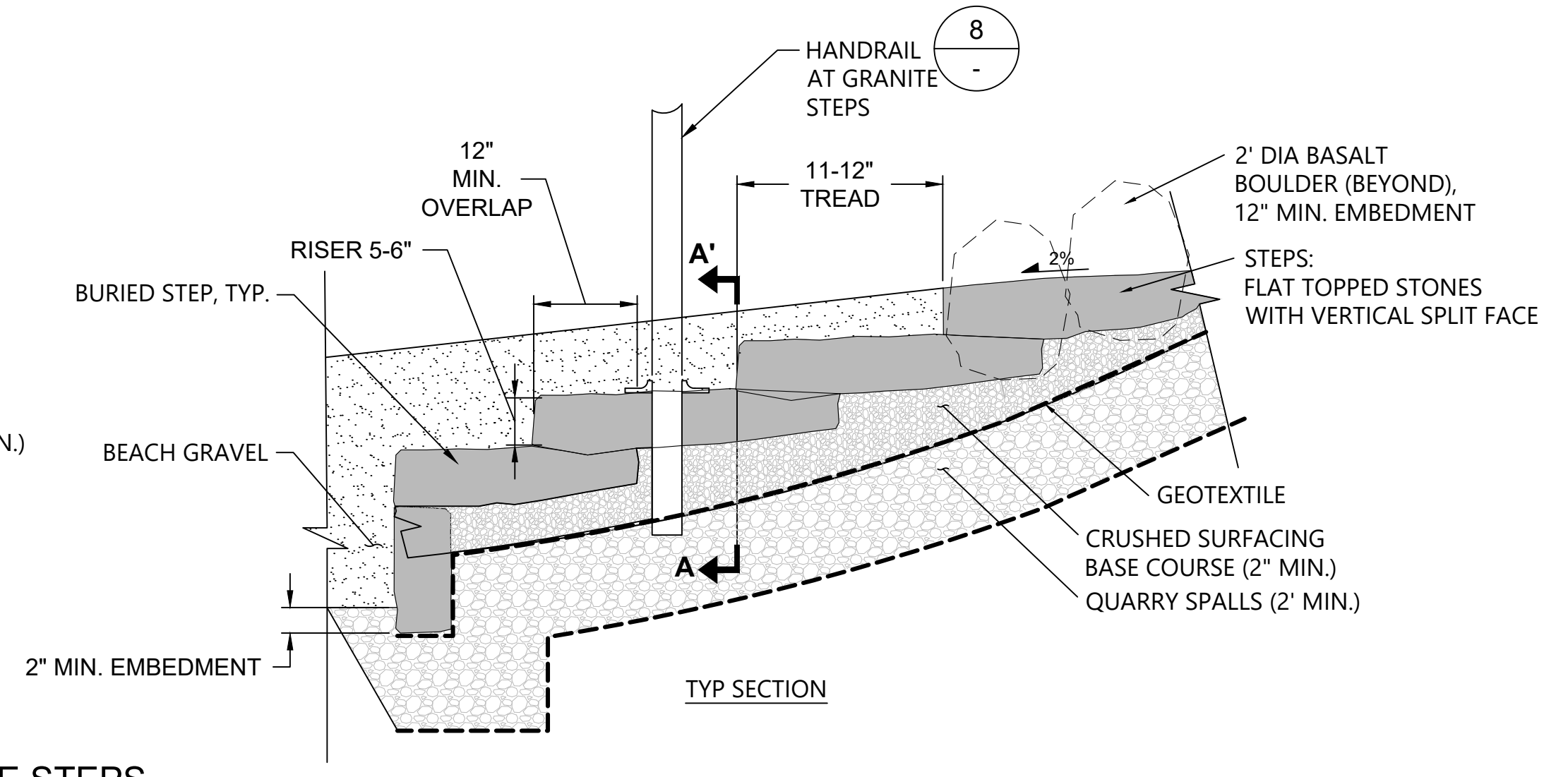


7 ANCHORED LARGE WOODY DEBRIS
 SCALE: NOT TO SCALE



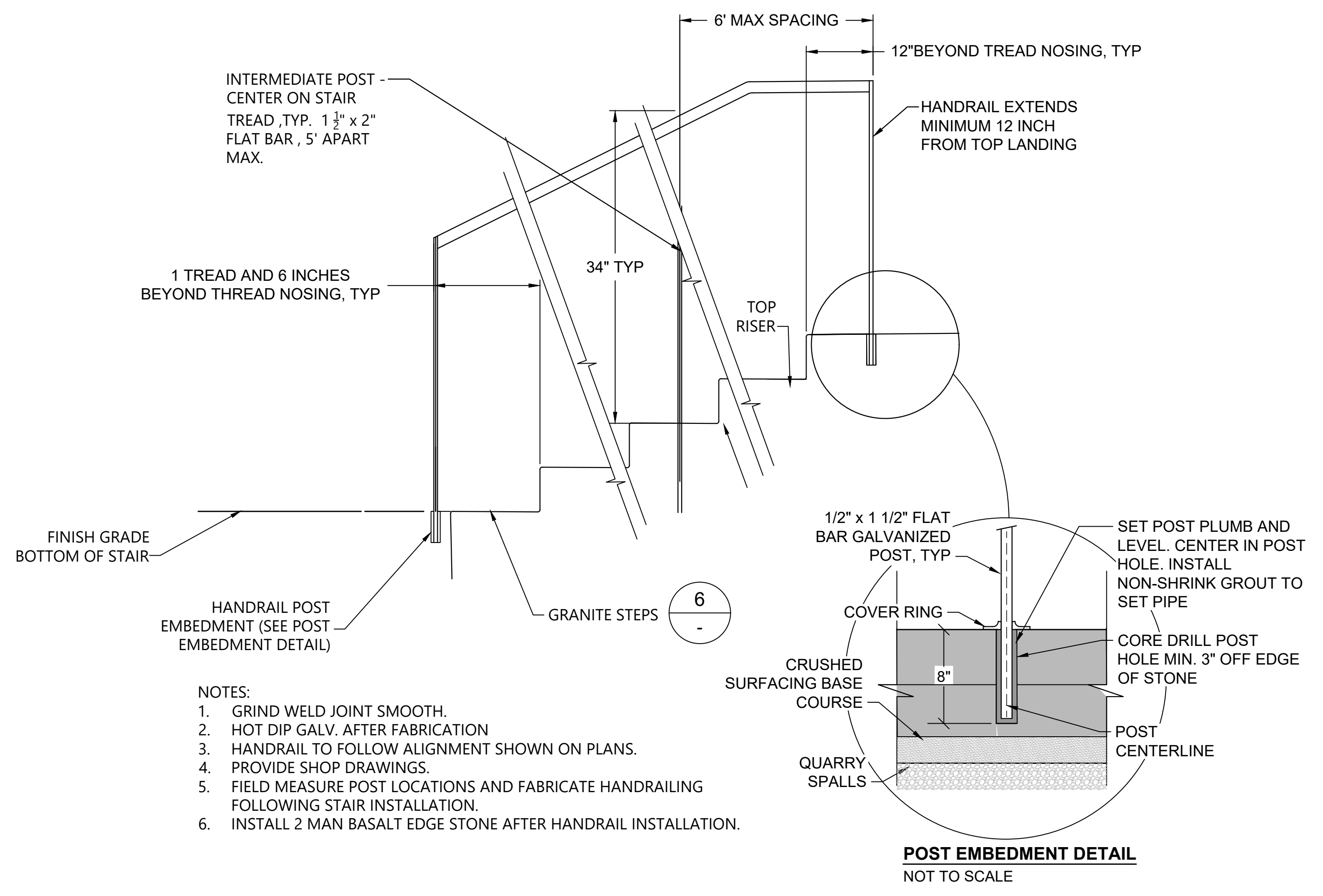
TYP. SECTION A-A'

6 GRANITE STEPS
 SCALE: CM-2



TYP SECTION

8 HANDRAIL AT GRANITE STEPS
 SCALE: NOT TO SCALE



- NOTES:
 1. GRIND WELD JOINT SMOOTH.
 2. HOT DIP GALV. AFTER FABRICATION
 3. HANDRAIL TO FOLLOW ALIGNMENT SHOWN ON PLANS.
 4. PROVIDE SHOP DRAWINGS.
 5. FIELD MEASURE POST LOCATIONS AND FABRICATE HANDRAILING FOLLOWING STAIR INSTALLATION.
 6. INSTALL 2 MAN BASALT EDGE STONE AFTER HANDRAIL INSTALLATION.

POST EMBEDMENT DETAIL
 NOT TO SCALE

6 HANDRAIL AT GRANITE STEPS
 SCALE: NOT TO SCALE

ONE INCH
 AT FULL SIZE IF NOT ONE
 INCH SCALE ACCORDINGLY

K:\Projects\1018-City of Mercer Island\Calkins Landing and Luther Burbank\03_South Shoreline\100%_Design_2017\1018-PL-CM001 (Materials).dwg, CM-4
 Oct 28, 2022, 4:55pm chewart



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DESIGNED BY: A. SPOONER
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LUTHER BURBANK SOUTH SHORELINE RESTORATION

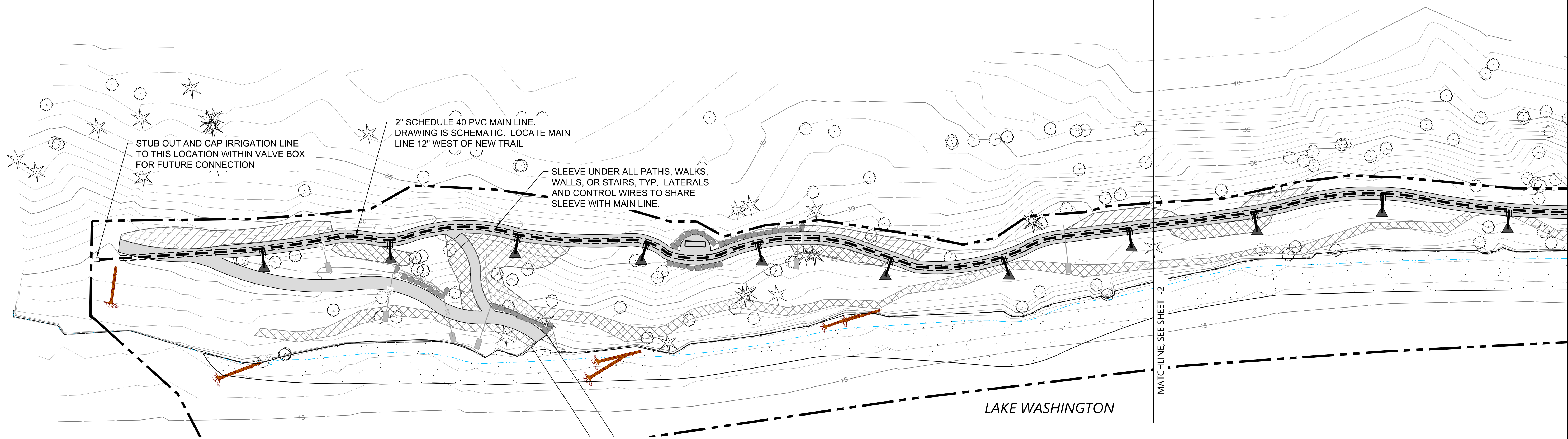
CONSTRUCTION DETAILS

BID SET

CM-4

SHEET NO. 15 OF 21

K:\Projects\1018-City of Mercer Island\Calkins Landing and Luther Burbank\03_South Shoreline\100%_Design_2017\1018-PL-001 (Irrigation) (dwg) -1-
Oct 28, 2022 4:55pm chewett

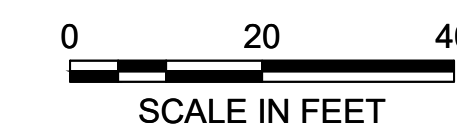
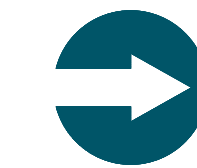


IRRIGATION EQUIPMENT LEGEND

SYMBOL	DESCRIPTION
▲	QUICK COUPLER VALVE - RAIN BIRD 44DLRC NON-POTABLE AS DETAILED
---	2" SCHEDULE 40 PURPLE NON-POTABLE PVC MAIN LINE
----	4" CLASS 200 PVC SLEEVE

IRRIGATION NOTES

1. IN THE FUTURE, THE SYSTEM WILL DRAW WATER FROM LAKE WASHINGTON. ALL COMPONENTS, INCLUDING PIPE, VALVES, VALVE BOXES, QUICK COUPLERS AND HEADS SHALL HAVE FACTORY PURPLE MARKINGS DESIGNATING NON-POTABLE WATER. NON-POTABLE SIGNAGE BY OWNER.
2. PROVIDE SPARE WIRES AT ENDS OF MAINLINES AS INDICATED ON PLANS. LABEL ALL WIRES AS THEY PASS THROUGH EACH INTERMEDIATE VAULT.
3. STAKE ALL VALVE BOX LOCATIONS FOR APPROVAL. VALVE BOXES SHALL BE LOCATED IN CLUSTERS FOR CONVENIENCE IN WIRING DECODERS. PLAN IS DIAGRAMMATIC.
4. SET VALVE BOXES SQUARE TO ADJACENT BUILDING, CURB, OR PAVING.
5. ALL IRRIGATION UNDER BUILDINGS, ROADS, WALKS, PARKING AREAS OR OTHER PAVED SURFACES SHALL BE SLEEVED, WHETHER SHOWN OR NOT. SLEEVES SHALL MINIMUM 4" DIAMETER, OR AS INDICATED. SLEEVING MAY BE INCLUDED FOR FUTURE WORK.
6. ALL PIPE OR EQUIPMENT SHOWN IN PAVING ADJACENT AND PARALLEL TO PLANTED AREAS IS INTENDED TO BE PLACED IN THAT AREA WHERE POSSIBLE. ALL MATERIAL TO BE INSTALLED ON OWNERS PROPERTY.
7. MAKE ANY AND ALL REQUIRED ADJUSTMENTS TO THE IRRIGATION PLAN TO ASSURE COMPLETE AND ADEQUATE COVERAGE WITH MINIMUM OVERSPRAY.
8. SEE PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION.
9. MAIN LINES SHALL HAVE 24" MINIMUM COVER AND 30" MAXIMUM COVER.
10. ONE MAIN LINE ISOLATION VALVE PER VALVE BOX.
11. PROTECT AND PRESERVE EXISTING TREES TO REMAIN. HAND DIG ONLY WITHIN ROOT ZONES.



- NOTES:
1. HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD 83, U.S. FEET.
 2. VERTICAL DATUM: NAVD 88

BID SET



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 SCALE: AS NOTED
 DATE: OCTOBER 2022

LUTHER BURBANK SOUTH SHORELINE RESTORATION

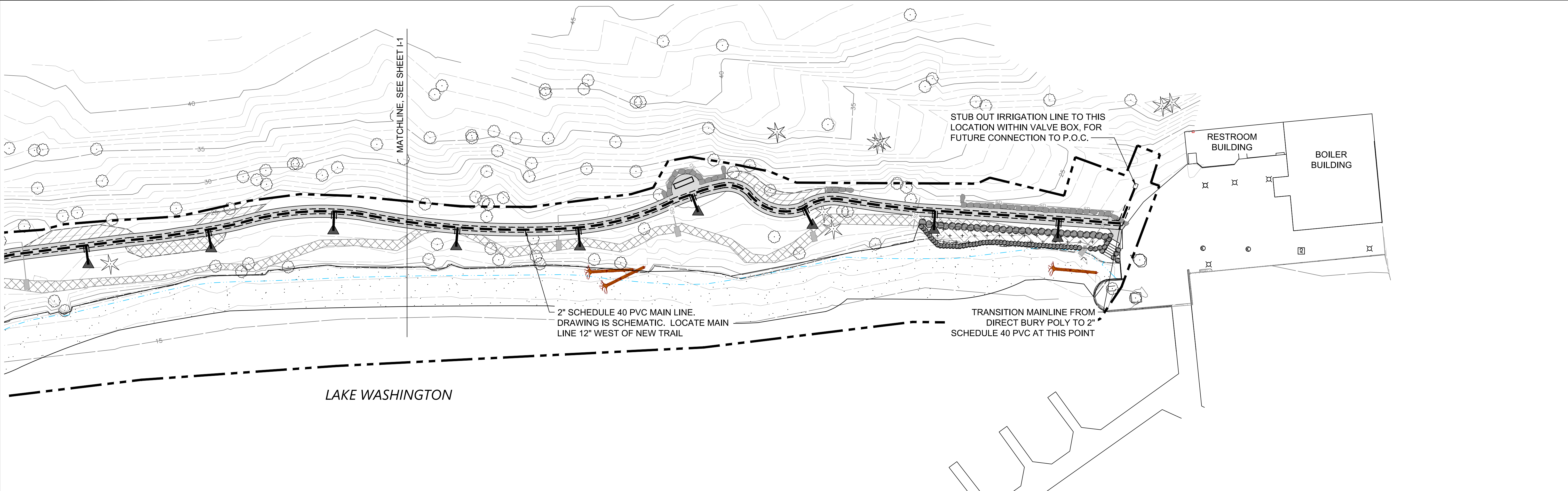
IRRIGATION PLAN

I-1

SHEET NO. 16 OF 21

ONE INCH AT FULL SIZE IF NOT ONE INCH SCALE ACCORDINGLY

K:\Projects\1018-City of Mercer Island\Calkins Landing and Luther Burbank\03_South Shoreline\100%_Design_2017\1018-PL-0001(Irrigation) (dwg) 1-2
Oct 28, 2022 4:56pm chewett

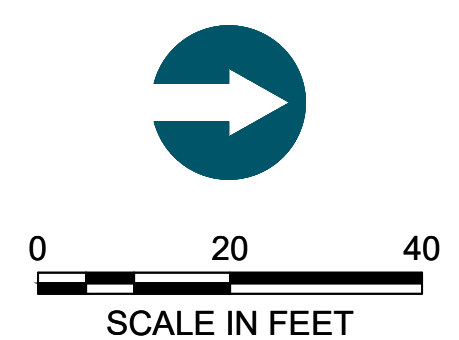


IRRIGATION NOTES

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2. PROVIDE SPARE WIRES AT ENDS OF MAINLINES AS INDICATED ON PLANS. LABEL ALL WIRES AS THEY PASS THROUGH EACH INTERMEDIATE VAULT.
3. STAKE ALL VALVE BOX LOCATIONS FOR APPROVAL. VALVE BOXES SHALL BE LOCATED IN CLUSTERS FOR CONVENIENCE IN WIRING DECODERS. PLAN IS DIAGRAMMATIC.
4. SET VALVE BOXES SQUARE TO ADJACENT BUILDING, CURB, OR PAVING.
5. ALL IRRIGATION UNDER BUILDINGS, ROADS, WALKS, PARKING AREAS OR OTHER PAVED SURFACES SHALL BE SLEEVED, WHETHER SHOWN OR NOT. SLEEVES SHALL MINIMUM 4" DIAMETER, OR AS INDICATED. SLEEVING MAY BE INCLUDED FOR FUTURE WORK.
6. ALL PIPE OR EQUIPMENT SHOWN IN PAVING ADJACENT AND PARALLEL TO PLANTED AREAS IS INTENDED TO BE PLACED IN THAT AREA WHERE POSSIBLE. ALL MATERIAL TO BE INSTALLED ON OWNERS PROPERTY.
7. MAKE ANY AND ALL REQUIRED ADJUSTMENTS TO THE IRRIGATION PLAN TO ASSURE COMPLETE AND ADEQUATE COVERAGE WITH MINIMUM OVERSPRAY.
8. SEE PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION.
9. MAIN LINES SHALL HAVE 24" MINIMUM COVER AND 30" MAXIMUM COVER.
10. ONE MAIN LINE ISOLATION VALVE PER VALVE BOX.
11. PROTECT AND PRESERVE EXISTING TREES TO REMAIN. HAND DIG ONLY WITHIN ROOT ZONES.

IRRIGATION EQUIPMENT LEGEND

SYMBOL	DESCRIPTION
	QUICK COUPLER VALVE - RAIN BIRD 44DLRC NON-POTABLE AS DETAILED
	2" SCHEDULE 40 PURPLE NON-POTABLE PVC MAIN LINE
	4" CLASS 200 PVC SLEEVE



NOTES:

1. HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD 83, U.S. FEET.
2. VERTICAL DATUM: NAVD 88

BID SET



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LUTHER BURBANK SOUTH SHORELINE RESTORATION

IRRIGATION PLAN

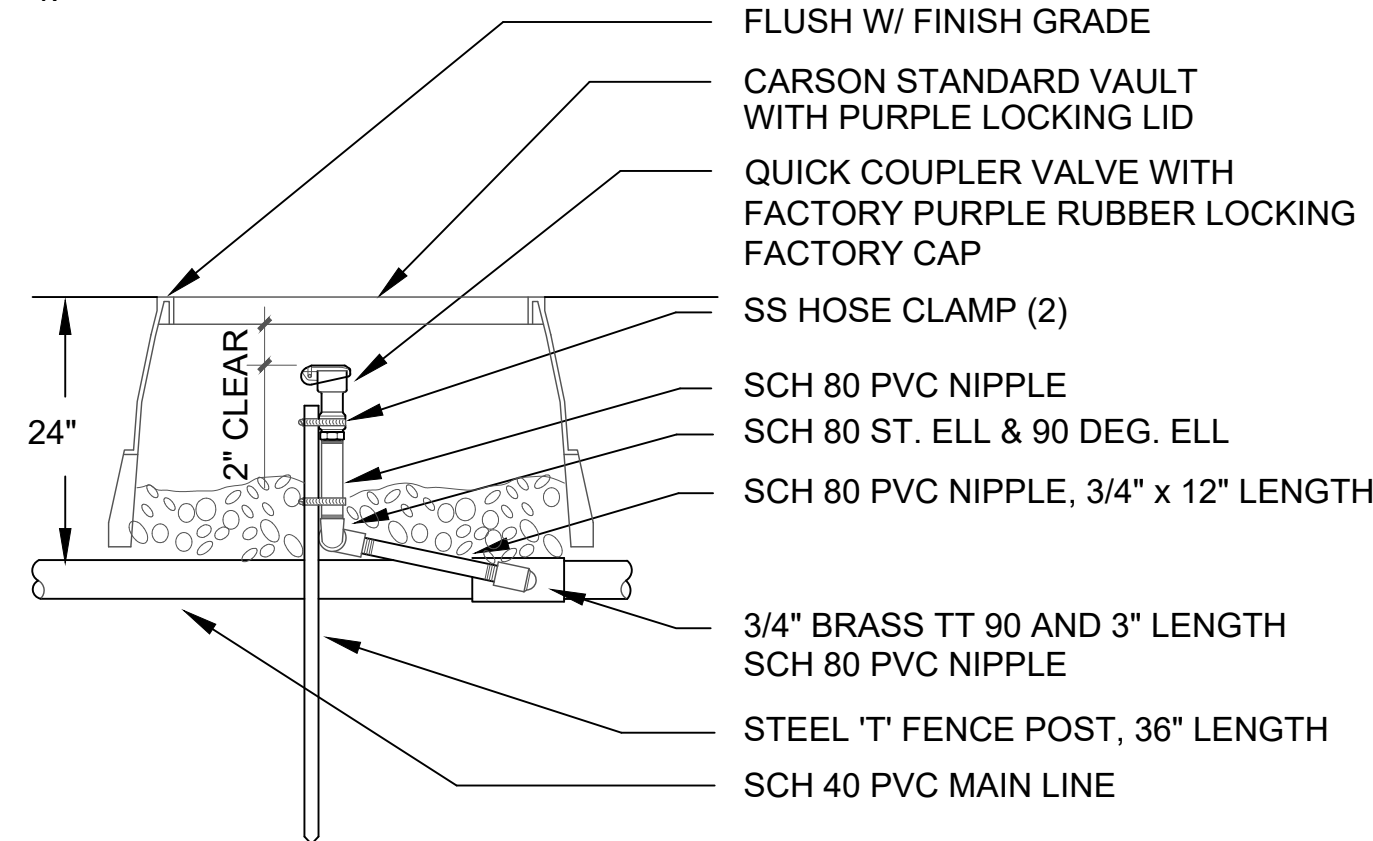
I-2

SHEET NO. 17 OF 21

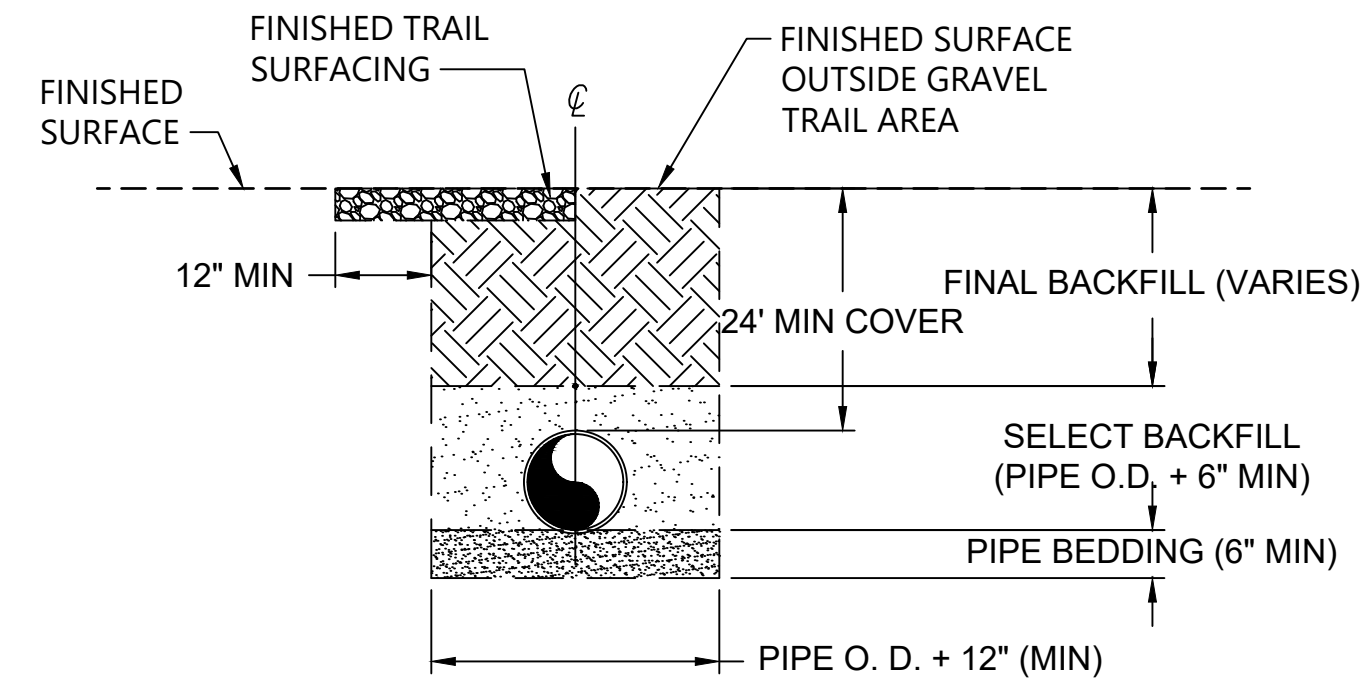
ONE INCH
AT FULL SIZE, IF NOT ONE
INCH SCALE ACCORDINGLY

NOTES:

- DO NOT ALLOW VAULT TO REST ON PIPE
USE EXTENSIONS AS NECESSARY.
- VALVE TO BE SET PLUMB & CENTERED IN VALVE BOX.
- CONTRACTOR TO PROVIDE (2) EACH QCV
KEYS AND SWIVEL HOSE ELLS
- PROVIDE 6" DEPTH DRAIN ROCK.



1 QUICK COUPLER VALVE
SCALE: NTS

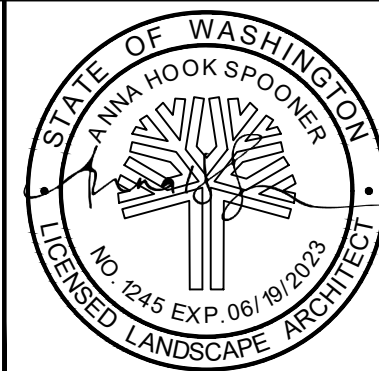


2 TRENCH DETAIL
SCALE: NOT TO SCALE

TYPICAL TRENCH NOTES:

- PIPE BEDDING - PIPE BEDDING MUST BE AT LEAST 6 INCHES DEEP COMPACTED AND MUST MEET THE REQUIREMENTS OF SECTION 9-03.12(3) OF THE WSDOT "STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION" (2022 EDITION). IF EXCAVATED TRENCH BOTTOM IS UNSTABLE OR NOT SUITABLE, THE SELLER MUST EXCAVATE TO A DEPTH REQUIRED BY THE COMPANY AND BACKFILL WITH PIPE BEDDING. PLACE PIPE BEDDING IN MAXIMUM 6-INCH LIFTS AND COMPACT TO 95% OF MAXIMUM DRY DENSITY AS DETERMINED BY THE MODIFIED PROCTOR METHOD (ASTM D1557). THE BOTTOM OF THE TRENCH MUST BE FREE OF ROCK AND SMOOTHED TO PREVENT BRIDGING.
- SELECT BACKFILL - SELECT BACKFILL MUST ALSO MEET THE REQUIREMENTS OF SECTION 9-03.12(3) OF THE WSDOT "STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION" (2022 EDITION). PLACE SELECT BACKFILL IN 6-INCH LIFTS TO A MINIMUM DEPTH OF 6 INCHES ABOVE THE CROWN OF THE PIPE AND COMPACT TO 95% OF MAXIMUM DRY DENSITY AS DETERMINED BY THE MODIFIED PROCTOR METHOD (ASTM D1557).
- FINAL BACKFILL - THE CONTRACTOR MUST BACKFILL THE REMAINING PORTION OF THE TRENCH TO THE LINES AND GRADES SHOWN WITH EXCAVATED NATIVE MATERIAL OR IMPORTED MATERIAL THAT HAS A MAXIMUM PARTICLE SIZE OF 3 INCHES AND IS FREE FROM DEBRIS AND ORGANIC MATERIAL. THE BACKFILL MUST BE WELL DRAINED AND SUITABLE FOR PLACEMENT AND COMPACTION. FOR PIPELINES UNDER GRAVEL TRAIL AREAS, PLACE BACKFILL IN MAXIMUM 6-INCH LOOSE LIFTS AND COMPACT TO 95% OF MAXIMUM DRY DENSITY AS DETERMINED BY THE MODIFIED PROCTOR METHOD (ASTM D1557). FOR OTHER PIPELINES, PLACE BACKFILL IN MAXIMUM 6-INCH LOOSE LIFTS AND COMPACT TO 90% OF MAXIMUM DRY DENSITY AS DETERMINED BY THE MODIFIED PROCTOR METHOD (ASTM D1557). THE AREA DIRECTLY OVER THE PIPE MUST NOT BE MECHANICALLY COMPACTED UNTIL THERE IS A MINIMUM OF 12" OF COVER OVER THE PIPE.
- EXISTING SOIL CONDITIONS - NO SUBSURFACE EXPLORATION HAS BEEN DONE ALONG THE ALIGNMENT OF THE PROPOSED PIPELINES. THE CONTRACTOR IS RESPONSIBLE FOR ASSESSING EXISTING SOIL CONDITIONS BEFORE TRENCH EXCAVATION. THE CONTRACTOR'S ATTENTION IS CALLED TO THE POTENTIAL FOR ENCOUNTERING COBBLES AND BOULDERS IN THE EXISTING SOIL.

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Oct 28, 2022 4:56pm chewett



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CHECKED BY: N. HIGGINS

APPROVED BY: A. SPOONER/D. RICE

SCALE: AS NOTED

DATE: OCTOBER 2022

LUTHER BURBANK SOUTH SHORELINE RESTORATION

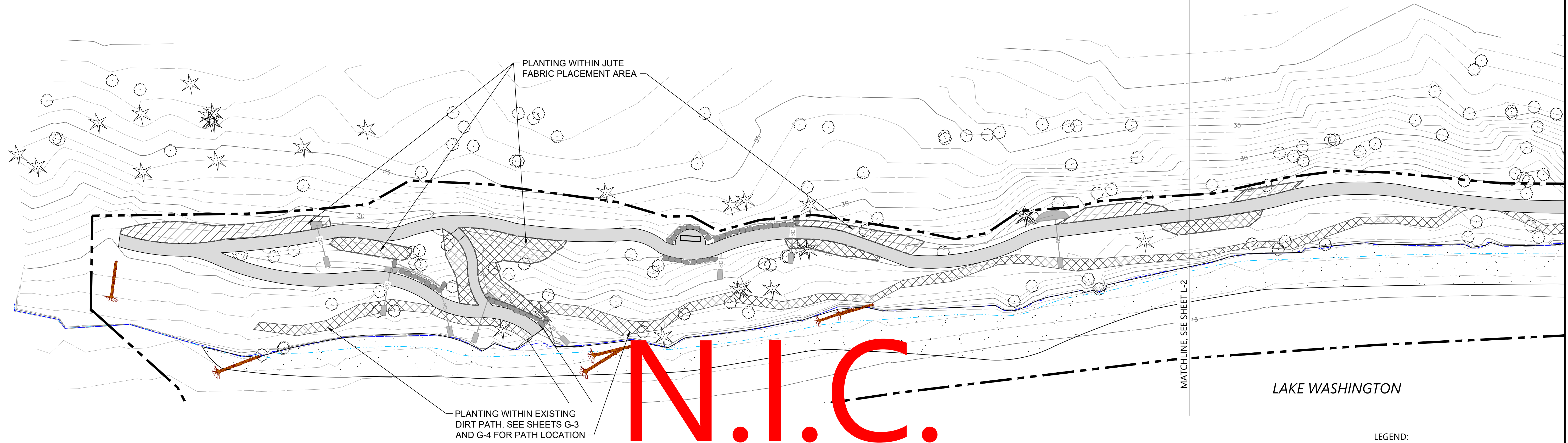
IRRIGATION DETAILS

BID SET

I-3

SHEET NO. 18 OF 21

ONE INCH
AT FULL SIZE IF NOT ONE
INCH SCALE ACCORDINGLY

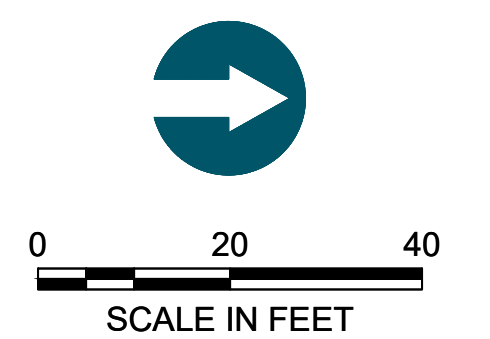


N.I.C.

PLANT SCHEDULE:

COMMON NAME	SCIENTIFIC NAME	SIZE	SPACING	REMARKS	QUANTITY	DETAIL
NATIVE RIPARIAN SHRUBS MEDIUM TO TALL AND TREES						
Beaked Hazelnut	<i>Corylus cornuta</i>	2 Gal.	5' O.C.	Equal mix of plant species shall be used	30	
Oceanspray	<i>Holodiscus discolor</i>	2 Gal.	5' O.C.		30	
Salmonberry	<i>Rubus spectabilis</i>	2 Gal.	5' O.C.		21	
Thimbleberry	<i>Rubus parviflorus</i>	2 Gal.	5' O.C.		29	
Oregon grape	<i>Mahonia aquifolium</i>	2 Gal.	5' O.C.		18	
Dwarf Rose	<i>Rosa gymnocarpa</i>	2 Gal.	5' O.C.	Prickly species to be used in desire trail locations near access points	18	1 L-3 2 L-3
Wood's rose	<i>Rosa woodsii</i>	2 Gal.	5' O.C.		18	
Vine Maple	<i>Acer circinatum</i>	2 Gal.	5' O.C.		29	
Douglas Fir	<i>Pseudotsuga menziesii</i>	2 Gal.	5' O.C.	Equal mix of plant species shall be used	34	
Western Red Cedar	<i>Thuja plicata</i>	2 Gal.	5' O.C.		34	
NATIVE RIPARIAN SHRUBS LOW						
Salal	<i>Gaultheria shallon</i>	1 Gal.	3' O.C.	Equal mix of plant species shall be used	79	1 L-3 2 L-3
Low Oregon grape	<i>Mahonia nervosa</i>	1 Gal.	3' O.C.		79	
Swordfern	<i>Polystichum munitum</i>	1 Gal.	3' O.C.		79	
Snowberry	<i>Symphoricarpos albus</i>	1 Gal.	3' O.C.		79	
Evergreen huckleberry	<i>Vaccinium ovatum</i>	1 Gal.	3' O.C.		79	
WILLOWS						
Hooker Willow	<i>Salix hookeriana</i>	1" Dia. x 30" Long Livestake	2' O.C.	Equal mix of plant species shall be used	40	5 L-3
Scouler Willow	<i>Salix scouleriana</i>	1" Dia. x 30" Long Livestake	2' O.C.		40	
Redosier Dogwood	<i>Cornus stolonifera</i>	1" Dia. x 30" Long Livestake	2' O.C.		40	
EXISTING TREES						

- LEGEND:
- PROJECT LIMIT
 - 5
4 EXISTING CONTOUR IN FEET
 - PROPOSED OHWM
 - LARGE WOODY DEBRIS
 - CRUSHED ROCK PATH
 - ROCKERY WALL
 - JUTE FABRIC (N.I.C.)
 - BEACH GRAVEL



- NOTES:
- HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD 83, U.S. FEET.
 - VERTICAL DATUM: NAVD 88
 - INSTALL 3" MULCH IN ALL PLANTING AREAS FOLLOWING PLANT INSTALLATION

BID SET

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Oct 28, 2022, 4:56pm chewett



REVISIONS				
REV	DATE	BY	APP'D	DESCRIPTION
1	2022/10	CH	DR	FINAL - FOR BID

DESIGNED BY: A. SPOONER
 DRAWN BY: C. HEWETT
 CHECKED BY: N. HIGGINS
 APPROVED BY: A. SPOONER/D. RICE
 SCALE: AS NOTED
 DATE: OCTOBER 2022

LUTHER BURBANK SOUTH SHORELINE RESTORATION

PLANTING PLAN

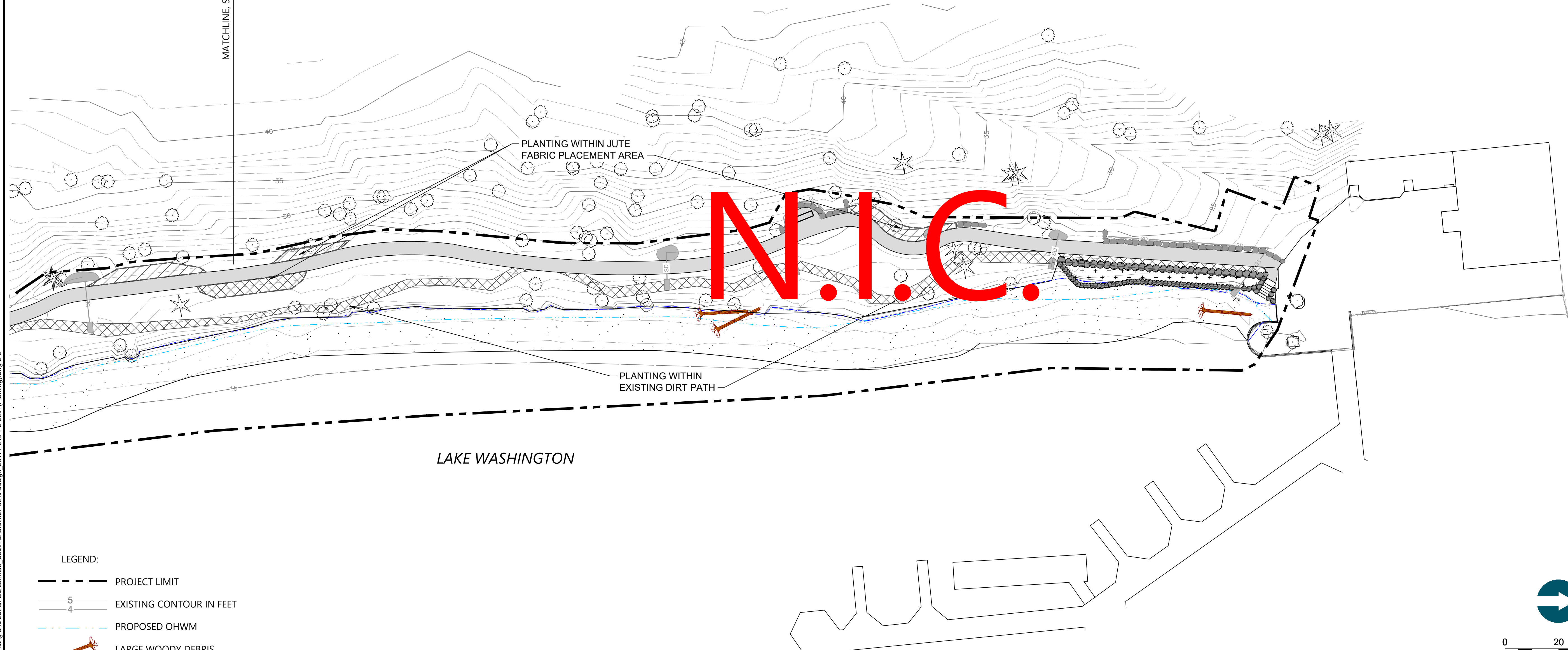
L-1

SHEET NO. 19 OF 21

ONE INCH
AT FULL SIZE IF NOT ONE
INCH SCALE ACCORDINGLY

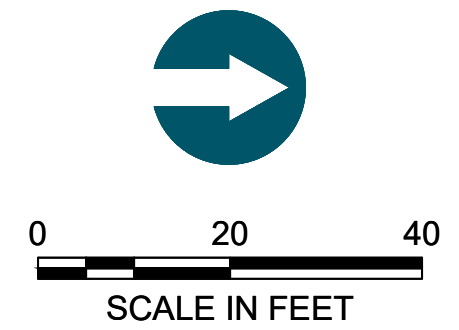
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 Oct 28, 2022 4:56pm chewett

MATCHLINE, SEE SHEET L-1



LEGEND:

- PROJECT LIMIT
- EXISTING CONTOUR IN FEET
- PROPOSED OHWM
- LARGE WOODY DEBRIS
- CRUSHED ROCK PATH
- ROCKERY WALL
- JUTE FABRIC (N.I.C.)
- BEACH GRAVEL



NOTES:

1. HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD 83, U.S. FEET.
2. VERTICAL DATUM: NAVD 88
3. SEE SHEET L-1 FOR PLANTING SCHEDULE.
4. INSTALL 3" MULCH IN ALL PLANTING AREAS FOLLOWING PLANT INSTALLATION

BID SET

ONE INCH
 AT FULL SIZE IF NOT ONE
 INCH SCALE ACCORDINGLY



REVISIONS				
REV	DATE	BY	APP'D	DESCRIPTION
1	2022/10	CH	DR	FINAL - FOR BID

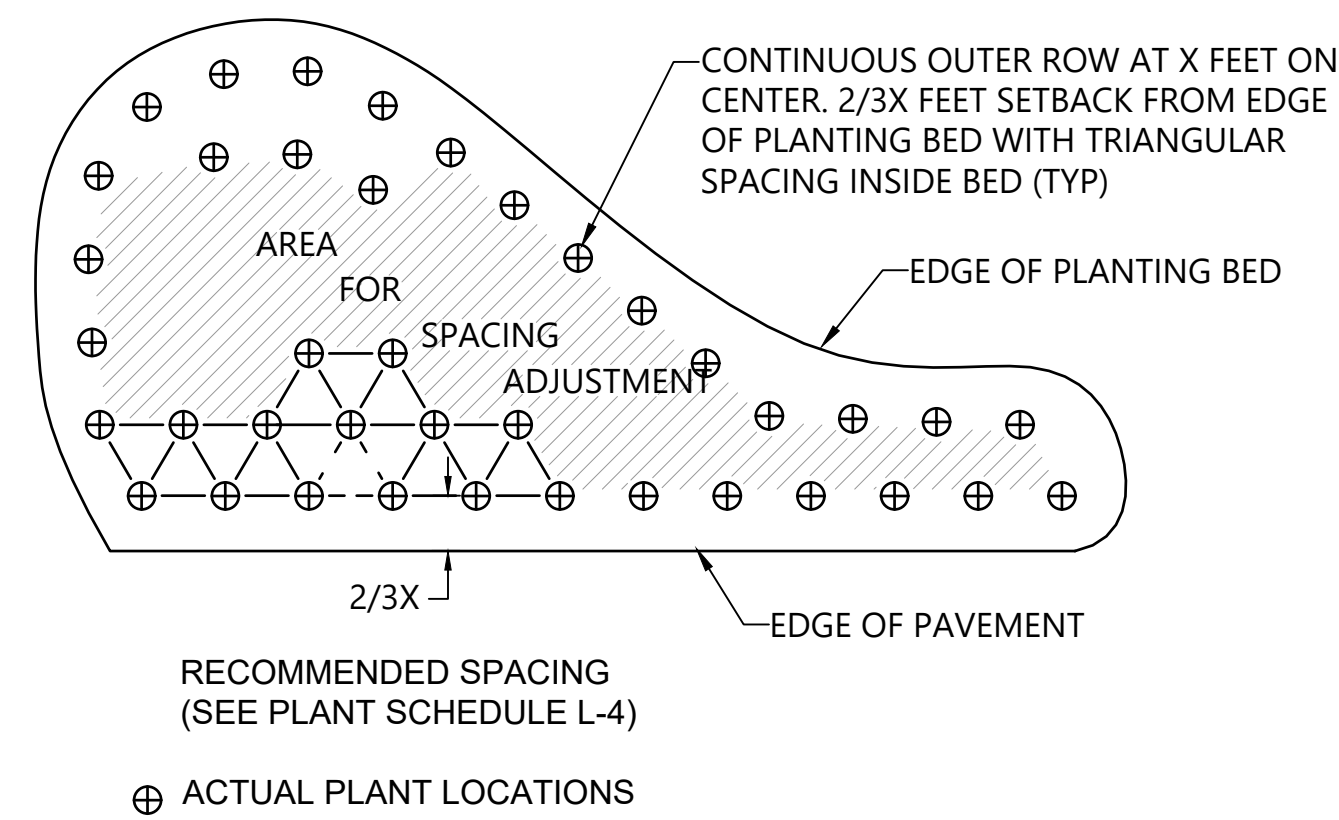
DESIGNED BY: A. SPOONER
 DRAWN BY: C. HEWETT
 CHECKED BY: N. HIGGINS
 APPROVED BY: A. SPOONER/D. RICE
 SCALE: AS NOTED
 DATE: OCTOBER 2022

LUTHER BURBANK SOUTH SHORELINE RESTORATION

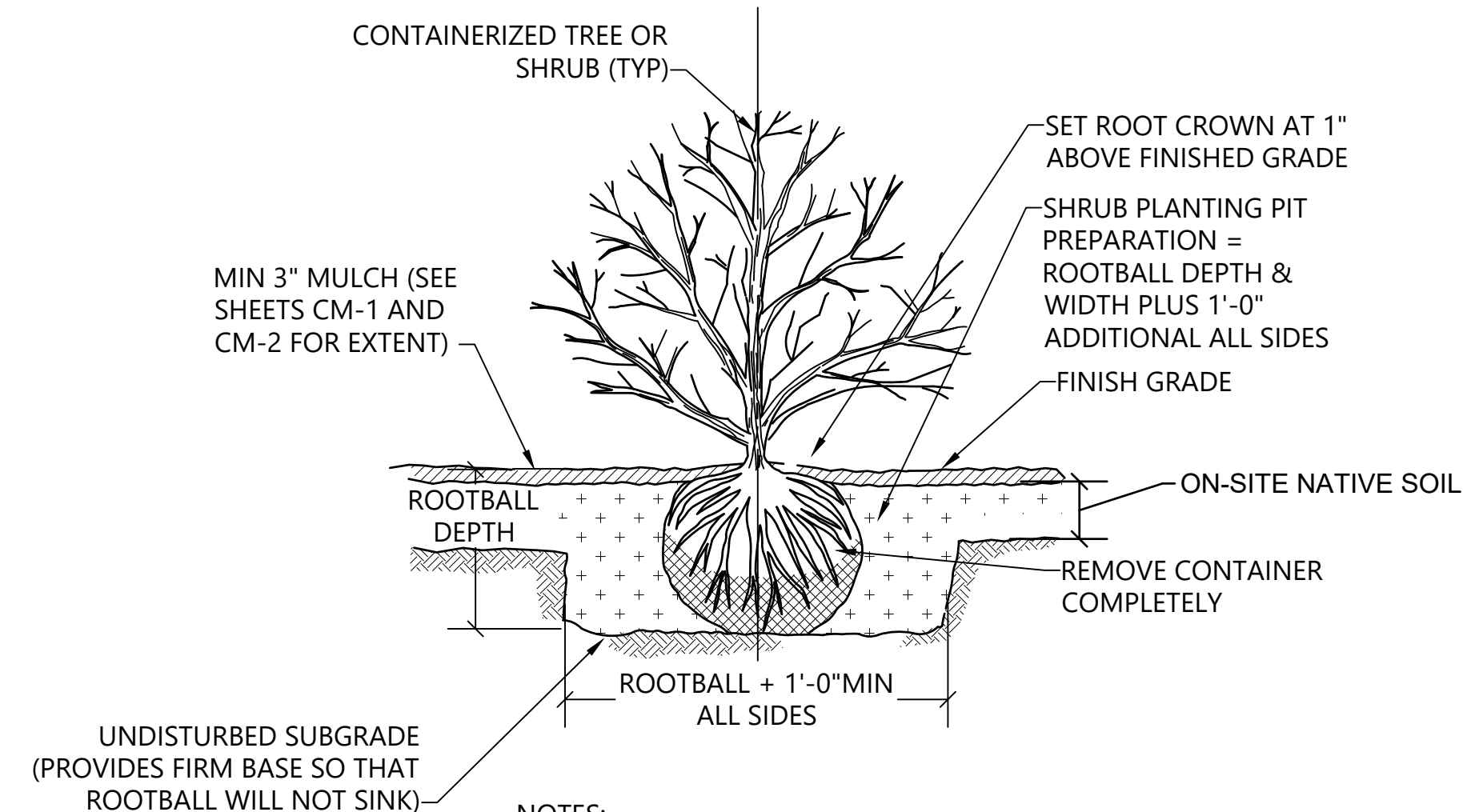
PLANTING PLAN

L-2

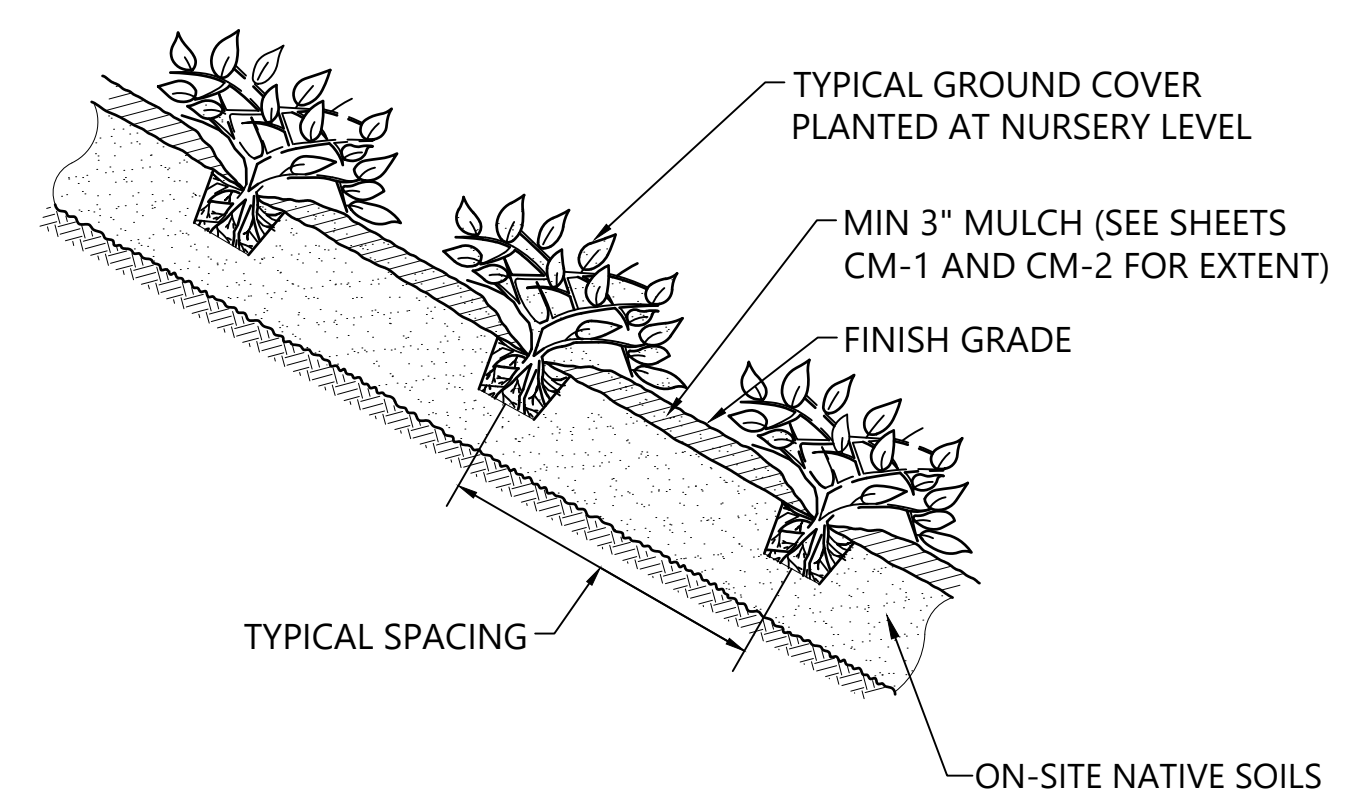
SHEET NO. 20 OF 21



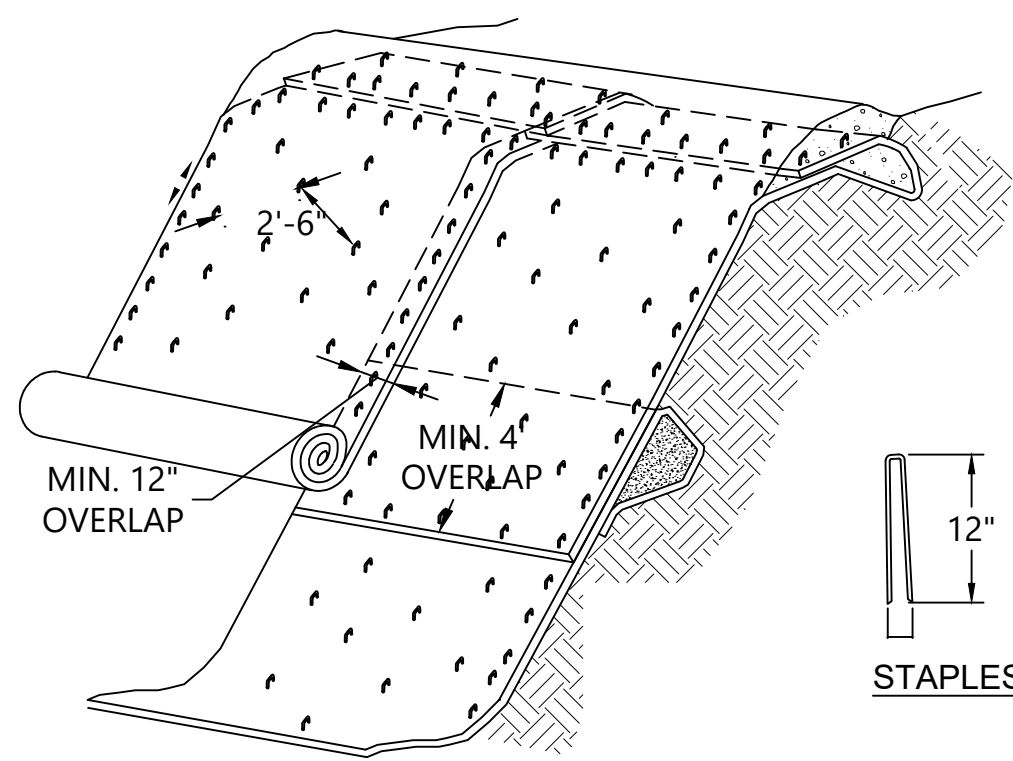
1 PLANTING PATTERN
SCALE: NTS
L-1



2 SMALL TREE AND SHRUB PLANTING
SCALE: NTS
L-1

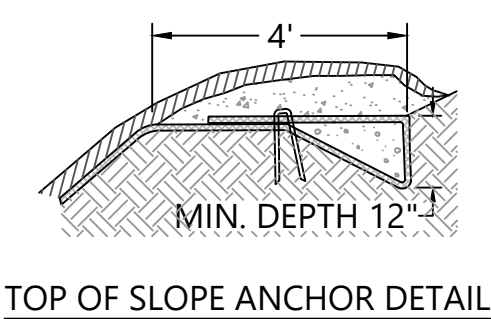


3 GROUND COVER PLANTING
SCALE: NTS
L-1

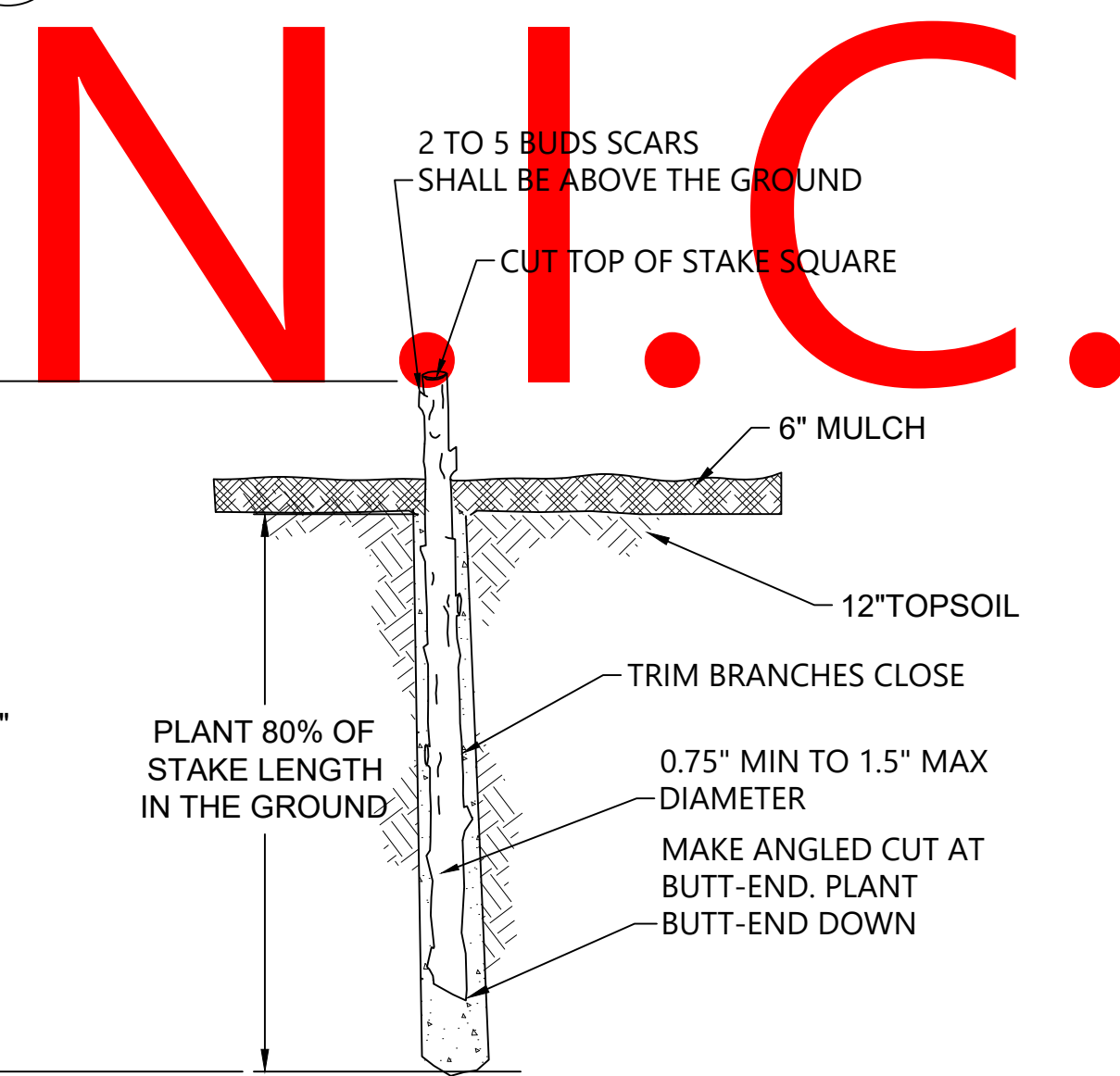


NOTES:

1. SLOPE SURFACE SHALL BE FREE OF ROCKS, CLODS, STICKS AND GRASS. MATS/BLANKETS SHALL HAVE GOOD SOIL CONTACT.
2. LAY BLANKETS LOOSELY AND STAKE OR STAPLE TO MAINTAIN DIRECT CONTACT WITH THE SOIL. DO NOT STRETCH.
3. MATS/BLANKETS SHOULD BE INSTALLED VERTICALLY DOWNSLOPE.
4. INSTALL JUTE MAT OVER ENTIRE PLANTING AREA. AVOID EXISTING TREES AND EXISTING STUMPS.
5. WATTLES SHALL BE PLACED OVER JUTE MATTING. EXCAVATE WATTLE TRENCH (SEE DETAIL XX) PRIOR TO PLACING JUTE FABRIC.
6. JUTE FABRIC SHALL BE ROLLED IN A CONTROLLED FASHION. INSTALL STAPLES AS MAT IS UNROLLED. FABRIC SHALL NOT BE ALLOWED TO ROLL DOWN THE SLOPE ON ITS OWN.



4 JUTE FABRIC SLOPE PROTECTION (N.I.C.)
SCALE: NTS
L-1



NOTES:

1. HARVEST AND PLANT STAKES DURING THE DORMANT SEASON.
2. MAKE CLEAN CUTS AND DO NOT DAMAGE STAKES OR SPLIT ENDS DURING INSTALLATION. USE A PILOT BAR IN FIRM SOILS.
3. SOAK CUTTINGS CONTINUOUSLY PRIOR TO INSTALLATION.
4. TAMP THE SOIL AROUND THE STAKE.
5. ONLY NURSERY GROWN STOCK SHALL BE USED. HARVESTING OF WILD PLANTS IS NOT ACCEPTABLE.
6. USE EQUAL NUMBER AND EVEN DISTRIBUTION OF EACH WILLOW SPECIES.

5 WILLOW LIVE STAKE PLANTING
SCALE: NTS
L-1

N.I.C.

K:\Projects\1018-City of Mercer Island\Calkins Landing and Luther Burbank\100% Design\2017\1018-PL-L001 (Planning).dwg L-3
Oct 28, 2022 4:56pm chewett



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SCALE: AS NOTED
DATE: OCTOBER 2022

LUTHER BURBANK SOUTH SHORELINE RESTORATION

PLANTING DETAILS

BID SET

L-3

SHEET NO. 21 OF 21

ONE INCH
AT FULL SIZE IF NOT ONE INCH SCALE ACCORDINGLY