CITY OF KIRKLAND

TREND LIFT STATION PROJECT

JOB NO. 34-24-PW

ISSUED FOR BID
AUGUST 2025

SSC0600000

CITY OFFICIALS

KELLI CURTIS	MAYOR
JAY ARNOLD	DEPUTY MAYOR
PENNY SWEET	COUNCIL MEMBER
JON PASCAL	COUNCIL MEMBER
NEAL BLACK	COUNCIL MEMBER
AMY FALCONE	COUNCIL MEMBER
JOHN TYMCZYSZYN	COUNCIL MEMBER
KURT TRIPLETT	CITY MANAGER
TRUC DEVER	PUBLIC WORKS DIRECTOR
ROB ENGLISH, PE	CAPITAL DIVISION MANAGER

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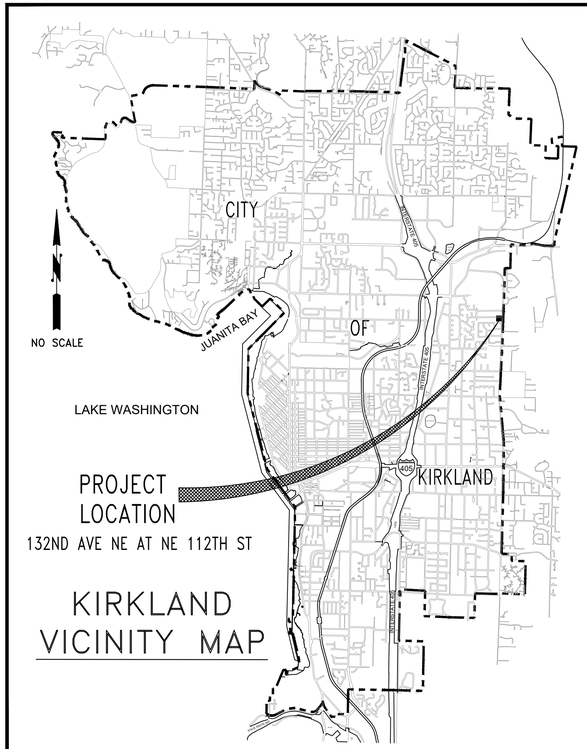
RIK MAYER	COK FIELD REPRESENTATIVE	206.496.4265
EVAN HEIMBUCH	COK FIELD REPRESENTATIVE	425.410.4606
PATTY MILLER	PUGET SOUND ENERGY (GAS)	206.305.7950
FREMONT AGUINALDO	PUGET SOUND ENERGY (ELECTRIC)	425.223.0936
BIANCA CRAWFORD	COMCAST CABLE	253.303.2723
CHERYL SCHNEIDER	ZIPLY FIBER	509.218.1294
SCOTT CHRISTENSEN	VERIZON	425.471.1079
JEFF MILES	LAKE WASH. SCHOOL DISTRICT	425.936.1120
CONST. COORDINATOR	KING COUNTY METRO	206.684.2732
MIKE FREEMAN	SEATTLE PUBLIC UTILITIES	206.684.8117
EMERGENCY	NORCOM	911
POLICE MAIN LINE	COK	425.587.3400
FIRE MAIN LINE	COK	425.864.3650
SPILL RESPONSE HOTLINE	COK	425.587.3900
ONE CALL UTILITY LOCATE		800.424.5555



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ABBREVIATIONS

AB	ANCHOR BOLT
ABAND	ABANDONED
AC	ASBESTOS CEMENT, ASPHALTIC CONCRETE
ADA	ADA RAMPS
AFF	ABOVE FINISH FLOOR
ALT	ALTERNATE
APPROX	APPROXIMATELY
APWA	AMERICAN PUBLIC WORKS ASSOCIATION
ARV	AIR RELIEF VALVE
ASPH	ASPHALT
AVE	AVENUE
AVG	AVERAGE
AW	ASPHALT WALK
AWG	AMERICAN WIRE GAUGE
BLDG	BUILDING
BLDG	BUILDING
BLVD	BOULEVARD
BM	BENCH MARK
BOC	BACK OF CURB
BOW	BACK OF WALK
BOT	BOTTOM
BRG	BEARING
BSBL	BUILDING SETBACK LINE
BTWN	BETWEEN
CB	CATCH BASIN
CC	CENTER TO CENTER
CDF	CONTROLLED DENSITY FILL
CFM	CUBIC FEET PER MINUTE
CFS	CUBIC FEET PER SECOND
CG	CURB & GUTTER
CI	CAST IRON
CIP	CAST IN PLACE
CJ	CONSTRUCTION JOINT
CLF	CHAIN LINK FENCE
C/L	CENTERLINE
CLR	CLEARANCE, CLEAR
CMP	CORRUGATED METAL PIPE
CMU	CONC MASONRY UNIT
CO	CLEAN OUT
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCT
CONT	CONTINUED/CONTINUOUS
COP	COPPER
CPEP	CORRUGATED POLYETHYLENE PIPE
CSBC	CRUSHED SURFACING BASE COURSE
CSTC	CRUSHED SURFACING TOP COURSE
CU	CUBIC
CULV	CULVERT
CW	CONC. WALK
CYL	CYLINDER
D	DRAIN
DBL	DOUBLE
DEC	DECIDUOUS TREE
DEG	DEGREE
DET	DETAIL
DI	DUCTILE IRON
DIA/Ø	DIAMETER
D/L	DAYLIGHT
D/W	DRIVEWAY
DWG	DRAWING
E	EAST
EA	EACH
ECB	ELECTRICAL CONTROL BOX
EL/ELEV	ELEVATION
EO	EDGE OF
EOA	EDGE OF ASPHALT
EOC	EDGE OF CONCRETE
EOD	EDGE OF DIRT
EOG	EDGE OF GRAVEL
EOP/EP	EDGE OF PAVEMENT
EQ	EQUAL
EW	EACH WAY
EXC	EXCAVATION
EX	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
FCA	FLANGED COUPLING ADAPTER
FF	FAR FACE
FFE	FINISH FLOOR ELEVATION
FH	FIRE HYDRANT
FIG	FIGURE
FIN	FINISH, FINISHED
FL	FLANGE
FM	FORCE MAIN
FNC	FENCE
FOC	FACE OF CURB
FOG	FOG LINE
FOW	FACE OF WALL
FRP	FIBERGLASS REINFORCED PLASTIC
FT	FEET/FOOT
FTG	FOOTING
G	GAS LINE
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GM	GAS METER
GPM	GALLONS PER MINUTE
GR	GUARD RAIL
GRD	GROUND
GV	GAS VALVE

H	HEIGHT
HB	HOSE BIB
HD	HEAD
HDCP	HANDICAP
HDG	HOT DIPPED GALV
HDPE	HIGH-DENSITY POLYETHYLENE
HMA	HOT MIX ASPHALT
HORIZ	HORIZONTAL
HP	HORSEPOWER, HIGH POINT
HPG	HIGH PRESSURE GAS
HSE	HOUSE
HT	HEIGHT
HWY	HIGHWAY
ICV	IRRIGATION CONTROL VALVE
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
IF	INSIDE FACE
IL	INLET
IN	INCH/INCHES
INV	INVERT
IP	IRON PIPE
IPS	IRON PIPE SIZE
JB	JUNCTION BOX
JT	JOINT
L	LENGTH
LBS	POUNDS
LF	LINEAL FOOT/FEET
LP	LONG PATTERN
M	METER
MAX	MAXIMUM
MB	MAILBOX
MH	MANHOLE
MIC	MONUMENT IN CASE
MIN	MINIMUM, MINUTE
MISC	MISCELLANEOUS
MJ	MECHANICAL JOINT
ML	MATCH LINE
MON	MONUMENT
N	NORTH
NA	NOT APPLICABLE
NF	NEAR FACE
NOM	NOMINAL
NPT	NATIONAL PIPE THREAD
NTS	NOT TO SCALE
NO	NUMBER
OC	ON CENTER
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
OPNG	OPENING
OPP	OPPOSITE
OPT	OPTIC
OT	OVERHEAD TELEPHONE
P	POLE, POWER
PAR	PARALLEL
PC	POINT OF CURVE/CURVATURE
PD	PERFORATED DRAIN LINE
PE	PLAIN END
PED	PEDESTRIAN
PERF	PERFORATED
PI	POINT OF INTERSECTION
PL	PLASTIC
PR	PAIR
PROP	PROPERTY
PRV	PRES REDUCING VALVE
PS	PUMP STATION
PSE	PUGET SOUND ENERGY
PSI	POUNDS PER SQ. IN.
PT	POINT OF TANGENCY
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
P/C	PRECAST
P/L	PROPERTY LINE
R	RADIUS
RC	REINF CONC
RCP	REINF CONC PIPE
RD	ROAD, ROUND
REF	REFERENCE
REINF	REINFORCED
REQD	REQUIRED
RET	RETAINING
RETW	RETAINING WALL
RFCA	RESTRAINED FLANGED COUPLING ADAPTER
RGS	RIGID GALVANIZED STEEL
RR	RAILROAD
RRC	RR CROSSING
RT	RIGHT
R/W	RIGHT OF WAY

S	SOUTH
SB	SOIL BORING
SC	SECTION CORNER
SCHED	SCHEDULE
SD	STORM DRAIN
SDCB	STORM DRAIN CATCH BASIN
SDMH	STORM DRAIN MANHOLE
SE	SPOT EL, SOUTHEAST
SEC	SECOND
SECT	SECTION
SERV	SERVICE
SHT	SHEET
SIM	SIMILAR
SL	SECTION LINE
SP	STATIC PRESSURE
STLT	STREET LIGHT
S/L	SURVEY LINE
SLJB	STREET LIGHTING JUNCTION BOX
SST	STAINLESS STEEL
SPECS	SPECIFICATIONS
SPU	SEATTLE PUBLIC UTILITIES
SQ	SQUARE
SS	SANITARY SEWER
SSMH	SANITARY SEWER MANHOLE
ST	STREET
STA	STATION
STD	STANDARD
STL	STEEL
S/W	SIDEWALK
SYM	SYMMETRICAL
T	TOP
TB	THRUST BLOCK
T&B	TOP & BOTTOM
TBM	TEMP. BENCHMARK
TDH	TOTAL DYNAMIC HEAD
TELB	BURIED TELEPHONE CABLE
TEL	TELEPHONE
TEMP	TEMPORARY
TESC	TEMPORARY EROSION AND SEDIMENT CONTROL
THD	THREADED
TJB	TELEPHONE JUNCTION BOX
TMH	TELEPHONE MANHOLE
TOC	TOP OF CURB
TOW	TOP OF WALL
TRJB	TRAFFIC CONTROL JUNCTION BOX
TV	TELEVISION
TYP	TYPICAL
UTIL	UTILITY
UG	UNDERGROUND
UP	UTILITY POLE
UPA	UTILITY POLE ANCHOR
V	VALVE
VAR	VARIES
VERT	VERTICAL
VLT	VAULT
W	WEST, WATER LINE
W/	WITH
WCR	WHEEL CHAIR RAMP
WDF	WOODEN FENCE
WM	WATER METER
W/O	WITHOUT
WV	WATER VALVE
WWF	WELDED WIRE FABRIC
YD	YARD

SYMBOLS

Ø	PHASE, DIAMETER
&	AND
'	FEET, MINUTES
"	INCHES, SECONDS
°	DEGREE

PLAN SYMBOLS AND CALLOUTS

PLAN

PROFILE

VIEW CALLOUT

NORTH ARROW

(#)

STANDARD CONSTRUCTION OR KEY NOTE CALLOUT

REFERENCE SYMBOLS

DETAIL REFERENCED BY NUMBER OR LETTER

SHEET ON WHICH REFERENCE TO FIGURE APPEARS

1/7 DETAIL -

ELEVATION REFERENCED BY LETTER

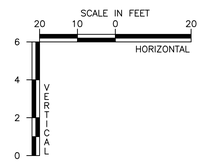
TWO SHEETS ON WHICH REFERENCE TO FIGURE APPEARS

A 2|3 ELEVATION -

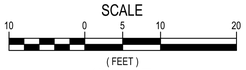
SECTION REFERENCED BY LETTER

MORE THAN TWO SHEETS ON WHICH REFERENCE TO FIGURE APPEARS

B VAR SECTION -



PROFILE GRID SCALE BAR



PLAN VIEW SCALE BAR

MATCH LINE - SEE SHEET XX

MATCH LINE CONTINUATION

GENERAL NOTES

1. ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO CITY OF KIRKLAND PUBLIC WORKS STANDARDS, 2025 WSDOT/APWA STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION ("STANDARD SPECIFICATIONS", AND THE BID AND CONTRACT DOCUMENTS MANUAL FOR THE TREND LIFT STATION PROJECT. AN APPROVED COPY OF THE PLANS SHALL BE ONSITE WHENEVER CONSTRUCTION IS IN PROGRESS. REFERENCES HEREIN TO "PLAN NO. CK-#.## ARE TO CITY OF KIRKLAND PRE-APPROVED PLANS (a.k.a."STANDARD DETAILS") AS INCLUDED, AND AS MAY BE AMENDED, ON THE DETAIL SHEETS.
2. ANY REVISIONS OF THESE PLANS SHALL BE REVIEWED AND APPROVED BY THE CITY OF KIRKLAND PUBLIC WORKS DEPARTMENT PRIOR TO IMPLEMENTATION IN THE FIELD.
3. A PRE-CONSTRUCTION CONFERENCE SHALL BE HELD PRIOR TO THE START OF CONSTRUCTION.
4. RIGHT-OF-WAY AND PROPERTY LINES SHOWN ON THE PLANS ARE APPROXIMATE. THEY ARE BASED ON ASSESSOR'S MAPS AND EXISTING SURVEY CONTROL.
5. FOR DRAWING CLARITY, NOT ALL OVERHEAD UTILITIES ARE SHOWN. APPROXIMATE LOCATIONS OF UNDERGROUND EXISTING UTILITIES HAVE BEEN OBTAINED FROM AVAILABLE RECORDS AND ARE SHOWN FOR CONVENIENCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF THE LOCATIONS SHOWN AND FOR DISCOVERY OF POSSIBLE ADDITIONAL UTILITIES NOT SHOWN SO AS TO AVOID DAMAGE OR DISTURBANCE. THE UNDERGROUND UTILITY LOCATION SERVICE SHALL BE CONTACTED FOR FIELD LOCATION PRIOR TO ANY CONSTRUCTION. THE ENGINEER OR HIS REPRESENTATIVE SHALL BE CONTACTED IF A UTILITY CONFLICT EXISTS. FOR UTILITY LOCATION CALL 1-800-424-5555 OR 811. THE CONTRACTOR SHALL MAINTAIN UTILITY LOCATE MARKINGS THROUGHOUT THE DURATION OF THE PROJECT.
6. CONTRACTOR SHALL COORDINATE CONSTRUCTION WITH PUGET SOUND ENERGY (PSE) PRIOR TO EXCAVATION NEAR GAS MAINS. THE PSE REPRESENTATIVE SHALL (AT A MINIMUM) BE ONSITE FOR CONSTRUCTION AROUND 4 INCH DIAMETER AND LARGER AND/OR HIGH-PRESSURE GAS MAINS. CONTRACTOR SHALL COORDINATE WITH SEATTLE PUBLIC UTILITIES (SPU) PRIOR TO EXCAVATION NEAR SPU MAINS.
7. CONTRACTOR SHALL COMPLY WITH ALL SPU REQUIREMENTS FOR CONSTRUCTION NEAR THEIR MAINS. SPU COORDINATION REQUIRED PRIOR TO AND WHILE WORKING AROUND SPU TRANSMISSION LINE. PROVIDE PROTECTION IN ACCORDANCE WITH SECTION 5.11.1.1 OF THE SPU DESIGN STANDARDS AND GUIDELIINES THAT INCLUDE BUT IS NOT LIMITED TO:
   - SUBMIT A PIPE SUPPORT PLAN FOR REVIEW AND SPU APPROVAL.
   - DO NOT USE CHAINS IN DIRECT CONTACT WITH PIPE FOR SUPPORT. CRADLES PREFERRED.
   - NO MORE THAN ONE JOINT TO BE UNSUPPORTED, BUT PIPE IS NOT PERMITTED TO SAG.
   - SETTLEMENT AND VIBRATION MONITORING AS REQUIRED BY SPU FIELD ENGINEER
8. CONTRACTOR SHALL PREPARE A COMPLETE WASTEWATER BYPASS PUMPING PLAN AND SUBMIT THE PLAN TO THE CITY FOR REVIEW AND APPROVAL AT LEAST 21 DAYS PRIOR TO SCHEDULED IMPLEMENTATION OF THE PLAN AND ANY DEMOLITION WORK ON THE EX STATION. THE WASTEWATER BYPASS PLAN SHALL HAVE A MINIMUM CAPACITY OF 165 GPM. THE BYPASS PLAN SHALL INCLUDE REDUNDANT PUMP, LEVEL SENSING AND CONTROL EQUIPMENT. THE PRIMARY PUMPING UNIT SHALL BE POWERED FROM THE LOCAL UTILITY POWER OR A SOUND-ATTENUATED PORTABLE ENGINE GENERATOR. SUCH PORTABLE GENERATOR SHALL BE COMPLIANT WITH LOCAL AND STATE NOISE REGULATIONS FOR NON-EMERGENCY OPERATIONS. BYPASS PIPING SHALL BE ROUTED TO NOT INTERFERE WITH VEHICULAR AND PEDESTRIAN TRAFFIC WHERE SUCH IS PROVIDED FOR WITH THE APPROVED TRAFFIC CONTROL PLAN. BYPASS PIPING SHALL BE BURIED IN A SHALLOW TRENCH IN PAVEMENT AREAS TO ALLOW VEHICULAR CROSSING OF ROADWAYS AND DRIVEWAYS. CONTRACTOR SHALL IMPLEMENT THE APPROVED PLAN AND RESTORE ALL DAMAGED PAVEMENT AND OTHER SURFACING PER CITY REQUIREMENTS. THE BYPASS SYSTEM SHALL BE SUCCESSFULLY OPERATED FOR A MINIMUM OF 24 HOURS, WITH SUPPLEMENTAL FLOW TO CONFIRM MINIMUM OF 10 CYCLES OF AUTOMATIC OPERATION, PRIOR TO DECOMMISSIONING OF EX. STATION EQUIPMENT. SEE SPECIAL PROVISIONS FOR ADDITIONAL BYPASS PLAN REQUIREMENTS.
9. STOCKPILING OF CONSTRUCTION MATERIALS IN CITY OF KIRKLAND RIGHT-OF-WAY WITHOUT WRITTEN PERMISSION OF ENGINEER IS PROHIBITED.
10. TRAFFIC CONTROL:
    - THE CONTRACTOR SHALL NOTE THAT 132ND AVE NE IS A MAJOR ARTERIAL WITH LIMITED AVAILABLE DETOUR ROUTES IN THE AREA UNLESS OTHERWISE DIRECTED BY WORK PERMIT(S), VEHICULAR ACCESS TO AND THROUGH THE PROJECT AREA SHALL NOT BE INTERRUPTED BY WORK BETWEEN 5:00 AM AND 9:00 AM AND BETWEEN 3:00 PM AND 7:OO PM ON WEEKDAYS. NO WORK SHALL BE COMPLETED ON WEEKENDS OR CITY OF KIRKLAND HOLIDAYS. LANE SHIFT SHALL BE CONSIDERED A TRAFFIC INTERRUPTION.
    - THE CONTRACTOR SHALL PREPARE A DETAILED, PHASED TRAFFIC CONTROL PLAN TO ADDRESS THE PSE POWER SERVICE, WATER SERVICE AND ALL STATION IMPROVEMENTS, PREPARED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF WASHINGTON, FOR ALL WORK ALONG 132ND AVE NE AND NE 112TH ST.
    - THE PLAN SHALL INCLUDE THREE PCMS, ONE FOR EACH STREET APPROACHING THE PROJECT AREA.
    - THE PLAN SHALL ACCOMMODATE BICYCLE AND PEDESTRIAN TRAFFIC, THE NEEDS OF ADJACENT BUSINESSES AND SCHOOLS, AND MAY NOT ROUTE ANY TRAFFIC THROUGH OTHER ADJACENT PROPERTIES.
    - THE TRAFFIC CONTROL PLAN SHALL BE SUBMITTED TO THE CITY OF KIRKLAND FOR REVIEW AND APPROVAL A MINIMUM OF 10 BUSINESS DAYS PRIOR TO THE PRE-CONSTRUCTION MEETING. NO WORK SHALL BEGIN PRIOR TO APPROVAL OF THE TRAFFIC CONTROL PLAN.
11. THE TEMPORARY EROSION/SEDIMENTATION CONTROLS (TESC) SHALL BE INSTALLED, INSPECTED BY THE CITY INSPECTOR, AND OPERATING BEFORE START OF EXCAVATION. THESE CONTROLS SHALL BE MAINTAINED UNTIL CONSTRUCTION SURFACE RESTORATION AND LANDSCAPING ARE COMPLETE.
12. ALL EXISTING TREES AND SHRUBS SHALL BE PRESERVED EXCEPT WHERE REMOVAL IS SPECIFICALLY DIRECTED ON THE PLANS. IF ANY CONFLICTS ARE NOTED, COORDINATE WITH THE CITY INSPECTOR.
13. CONTRACTOR SHALL NOTIFY THE CITY INSPECTOR IMMEDIATELY OF SOILS UNSUITABLE FOR FOUNDATION OR BACKFILL MATERIAL, STANDING WATER IN EXCAVATIONS, AND/OR ANY DISCREPANCIES NOTED IN THE PLANS.
14. CONTRACTOR SHALL MAINTAIN A CLEAN AND LEGIBLE SET OF "RECORD DRAWINGS" ON A FULL-SIZED PLAN SET REFLECTING AS-CONSTRUCTED CONDITIONS. PROVIDE RECORD DRAWINGS TO CITY AT COMPLETION OF CONSTRUCTION.
15. AFTER COMPLETION OF ALL ITEMS SHOWN ON THESE PLANS AND BEFORE ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL REQUEST A PUNCH LIST FROM THE CITY INSPECTOR PER SECTION 1-05.11 OF THE STANDARD SPECIFICATIONS. ALL ITEMS OF WORK SHOWN ON THESE PLANS SHALL BE COMPLETED TO THE SATISFACTION OF THE CITY OF KIRKLAND PRIOR TO ACCEPTANCE OF THE PROJECT.

811 Know what's below. Call 811 before you dig.

DATE	NO.	REVISION	BY

RODNEY C. LANGER — STATE OF WASHINGTON — 30046 — REGISTERED PROFESSIONAL ENGINEER — 08/05/25

UPI NO.: UPI#	FED. AID PROJ. NO.: AID#
SURVEY NO.: SURVEY#	FIELD BOOK(S): BOOKS
HORZ. DATUM: NAD83-91	VERT. DATUM: NAVD88
DESIGNED BY: DESIGNER APSE	DRAWN BY: DRAWN DNJ

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DEPARTMENT OF PUBLIC WORKS
123 FIFTH AVENUE KIRKLAND, WA 98033
(425) 587-3800 www.kirklandwa.gov

FUNDING NO. 34-24-PW

TREND LIFT STATION PROJECT

GENERAL NOTES, ABBREVIATIONS. PLAN SYMBOLS AND CALLOUTS

REFERENCE SHEET NO. C1

SHEET 1 OF 20 SHEETS

SURVEY NOTES

1 THIS SURVEY WAS PERFORMED DURING MARCH, 2022 IN SUPPORT OF CITY OF KIRKLAND TREND LIFT STATION UPGRADE PROJECT AND IS INTENDED TO BE USED FOR THIS PURPOSE. SPECIFIC INFORMATION SHOWN HEREON SHOULD BE VERIFIED AS TO ITS ACCURACY IF THIS SURVEY IS TO BE USED FOR PURPOSES OTHER THAN WHAT IT WAS INTENDED FOR.

2 FIELD MEASUREMENTS FOR THIS SURVEY WERE PERFORMED USING TRIMBLE R12i GPS RECEIVER AND A TRIMBLE S7 TOTAL STATION. THIS SURVEY COMPLIES WITH THE MINIMUM REQUIRED "ERROR OF CLOSURE" OF 1:10,000 FOR WASHINGTON STATE PLANE COORDINATES AS SET FORTH PER W.A.C. 332-130-090 (AND POSITIONAL TOLERANCE LEVELS OF LESS THAN 0.011 METERS).

3 HORIZONTAL DATUM: WASHINGTON COORDINATE SYSTEM, NORTH ZONE, NAD83-91 PER CITY OF KIRKLAND CONTROL POINTS NO. 41 & 36.

4 BASIS OF BEARING: HELD A BEARING OF SOUTH 02°11'16" WEST ALONG THE MONUMENTED CENTERLINE OF 132ND AVE NE FROM THE FOUND CITY OF KIRKLAND MONUMENTS NO. 41 & 36 PER CITY OF KIRKLAND SHORT PLAT FILE NO. SUB15-02581 RECORDED UNDER RECORDING NO. 20170928900013

5 VERTICAL DATUM: NAVD 88 PER CITY OF KIRKLAND CONTROL POINT NO. 41.

6 CONTOUR INTERVAL: 1 FOOT

7 PROPERTY LINES SHOWN HEREON ARE BASED ON READILY AVAILABLE PLATS, SURVEYS, RIGHT OF WAY PLANS, KING COUNTY ASSESSOR INFORMATION AND GIS DATA.

8 ALL SURVEY MONUMENTS AND OTHER SURVEY MARKERS SHOWN HEREON WERE VISITED DURING MARCH, 2022 UNLESS OTHERWISE INDICATED.

9 THIS SURVEY WAS PERFORMED WITHOUT THE BENEFIT OF A TITLE REPORT, ACCORDINGLY, ANY EASEMENTS OR RESTRICTIONS OF RECORD WHICH MAY BE REVEALED IN A TITLE REPORT HAVE NOT BEEN INCLUDED HEREON.

10 UNDERGROUND UTILITIES SHOWN REPRESENT FIELD SURVEYED PAINT MARKS AS PLACED ON THE GROUND BY A UTILITY LOCATE SERVICE TOGETHER WITH AVAILABLE UTILITY AS-BUILT AND REFERENCE DRAWINGS. NO GUARANTEE IS MADE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED OR THAT THE UNDERGROUND UTILITIES ARE SHOWN IN THEIR EXACT LOCATION. THE UTILITIES ARE SHOWN AS ACCURATELY AS POSSIBLE FROM AVAILABLE INFORMATION.

11 SUBSURFACE CONDITIONS WERE NOT EXAMINED OR CONSIDERED AS PART OF THIS SURVEY.

12 **1-800-424-5555** MUST BE CALLED NOT LESS THAN 48 HOURS BEFORE BEGINNING EXCAVATION WHERE ANY UNDERGROUND UTILITIES MAY BE LOCATED. FAILURE TO DO SO COULD MEAN BEARING SUBSTANTIAL REPAIR COSTS. (UP TO THREE TIMES THE COST OF REPAIRS TO THE SERVICE).

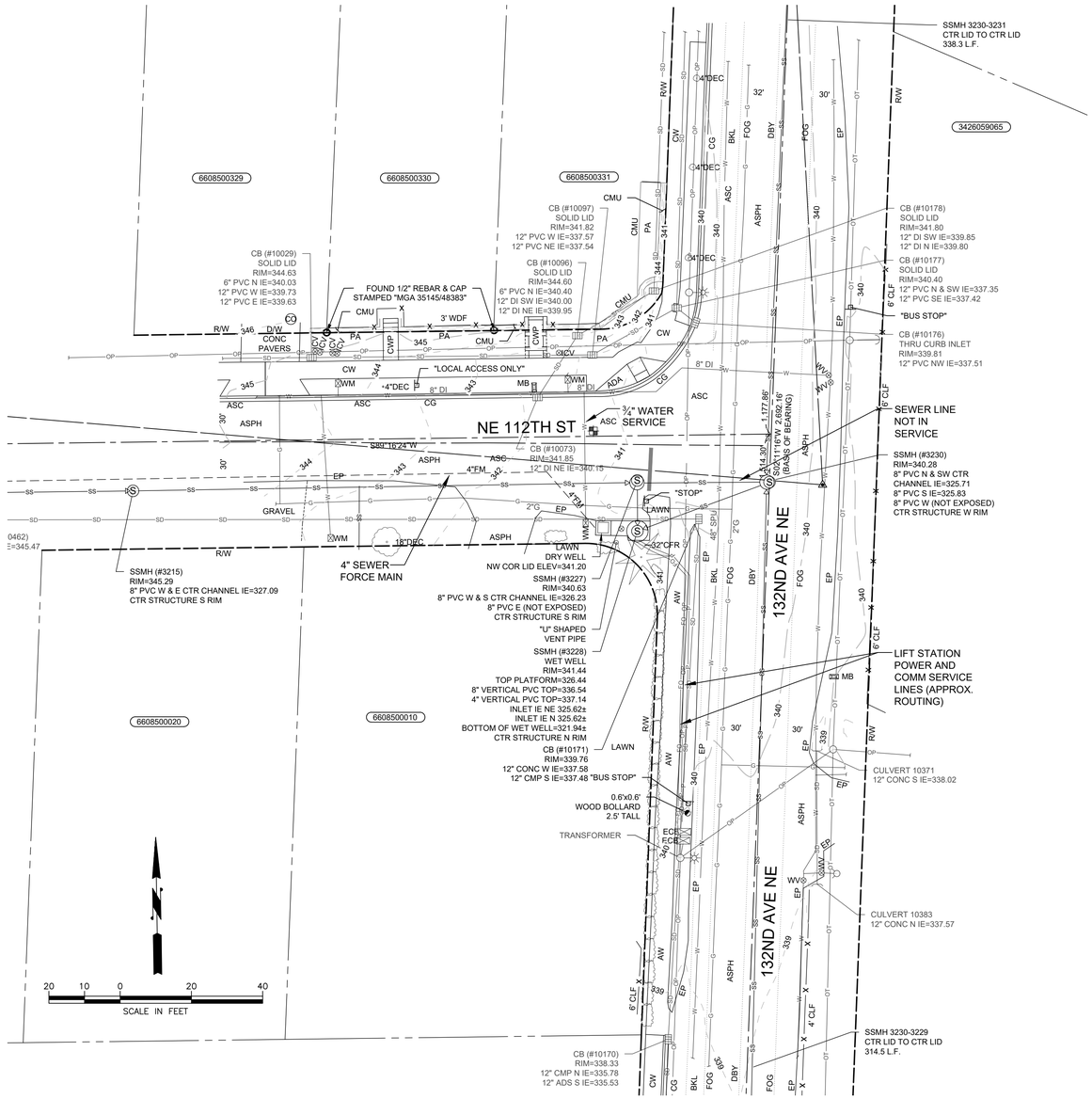
LEGEND

◉	MONUMENT IN CASE (FOUND AS NOTED)	ADA	CONCRETE RAMP-SIDEWALK
O	REBAR & CAP (FOUND AS NOTED)	ASPH	ASPHALT
ECB	POWER CABINET	AW	ASPHALT SIDEWALK
○	POWER POLE	ASC	ASPHALT SAW CUT/PATCH
○—☼	POWER POLE/LIGHT POLE	BKL	BIKE LANE
←	GUY ANCHOR	CMU	CONCRETE MASONRY UNIT WALL
	FIRE HYDRANT	CWP	CONCRETE PAVERS-SIDEWALK
⊗ ICV	IRRIGATION CONTROL VALVE	CG	CONCRETE CURB & GUTTER
⊠ WM	WATER METER	CW	CONCRETE SIDEWALK
⊗ WV	WATER VALVE	EP	EDGE OF ASPHALT PAVING
	STORM CATCH BASIN	DBY	DOUBLE YELLOW PAINTED CENTERLINE
Ⓓ	STORM DRAIN MANHOLE	D/W	DRIVEWAY
}	STORM CULVERT	FOG	PAINTED FOG LINE
Ⓢ	SANITARY SEWER MANHOLE	PA	PLANTED AREA
CO	SANITARY SEWER CLEANOUT	R/W	EXISTING RIGHT OF WAY
⊗	SEWER VALVE		
○	SEWER STAND PIPE		DECIDUOUS TREE
◓	POST OR BOLLARD		
MB	MAILBOX		CONIFEROUS/EVERGREEN TREE
⊢	SIGN		
	UTILITY BORE HOLE		BUSH
0123456789	TAX LOT / PARCEL NUMBER		

	EXISTING RIGHT-OF-WAY CENTER LINE
	EXISTING RIGHT-OF-WAY LINE
	PARCEL LINE
	TRAFFIC STRIPING
X X X	CHAIN LINK FENCE LINE (CLF)
X X X	WOOD FENCE LINE (WDF)
G G	NATURAL GAS PIPE
P P	POWER LINE
OP OP	POWER OVERHEAD LINE
FO FO	FIBER OPTIC LINE
OT OT	TELEPHONE OVERHEAD LINE
W W	WATER PIPE
SD SD	STORM DRAIN PIPE
SS SS	SANITARY SEWER PIPE
	MAJOR CONTOUR 5' INTERVAL
	MINOR CONTOUR 1' INTERVAL
	STRAW WATTLE

Know what's **below.** **Call 811** before you dig.

NE ¼ SEC. 33, TW. 26N, R.5E, WM



SITE PLAN - EXISTING CONDITIONS

DATE	NO.	REVISION	BY

SURVEY DRAWING ON FILE AT DAVID EVANS AND ASSOCIATES - INCLUDED HEREIN FOR REFERENCE

UPI NO.: UPI#	FED. AID PROJ. NO.: AID#
SURVEY NO.: SURVEY#	FIELD BOOK(S): BOOKS
HORZ. DATUM: NAD83-91	VERT. DATUM: NAVD88
DESIGNED BY: DESIGNER NA	DRAWN BY: DRAWN DNJ

DAVID EVANS AND ASSOCIATES INC.
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CITY OF KIRKLAND
DEPARTMENT OF PUBLIC WORKS
123 FIFTH AVENUE KIRKLAND, WA 98033
(425) 587-3800 www.kirklandwa.gov

FUNDING NO. 34-24-PW

TREND LIFT STATION PROJECT

EXISTING CONDITIONS, LEGEND AND SURVEY NOTES

REFERENCE SHEET NO. C2

SHEET 2 OF 20 SHEETS

August 5, 2025 - 1:46 PM - SYS - P:\KIK\RX0009038\0400CAD\EC\SHEETS\KIRK0000-9038.DWG - Layout Name: SHT 2 C2

NE ¼ SEC. 33, TW. 26N, R.5E, WM

REMOVE AND REPLACE ASPHALT AND CONCRETE CURB AND GUTTER, RESTORE WHERE DISTURBED TO MATCH EX CONDITIONS PER SITE PLAN NOTES

SAW CUT AND REMOVE EX PAVEMENT, EXCAVATE 3' WIDE TRENCH FOR POWER CONDUIT FOR NEW PSE SERVICE. CONFIRM ROUTING WITH PSE. TEMPORARY HMA PATCH OVER TRENCH AREA

EXPOSE EX LIFT STATION WATER SERVICE CONNECTION AT MAIN, CLOSE CORP STOP AND DISCONNECT, CAP WITH BRASS CAP, OR REMOVE EX SADDLE AND SEAL/REPAIR MAIN WITH SST REPAIR BAND, ROMAC OR EQUAL, ALL AS DIRECTED BY THE CITY. REMOVE AND REPLACE ASPHALT AND CONCRETE CURB AND GUTTER, RESTORE WHERE DISTURBED TO MATCH EX CONDITIONS PER SITE PLAN NOTES. TEMPORARY HMA PATCH OVER TRENCH AREA.

POTHOLE TO LOCATE FORCE MAIN FROM ABOVE DRY WELL TO BEND TO WEST ON NE 112TH ST AND POTHOLE EX GAS AND SD AT FORCE MAIN CROSSINGS

REMOVE EX 12" CONC SD BETWEEN DRIVEWAY AND EX CB. REMOVE SD FROM WEST INLET TO CB WITHOUT DAMAGE TO EX CB. MAINTAIN TEMPORARY SD AROUND WET WELL EXCAVATION UNTIL REPLACEMENT SD INSTALLED.

REMOVE WATER SERVICE, CAP AND ABANDON SERVICE LINE AND REMOVE SERVICE AND METER BOX. CITY TO REMOVE/RELOCATE METER

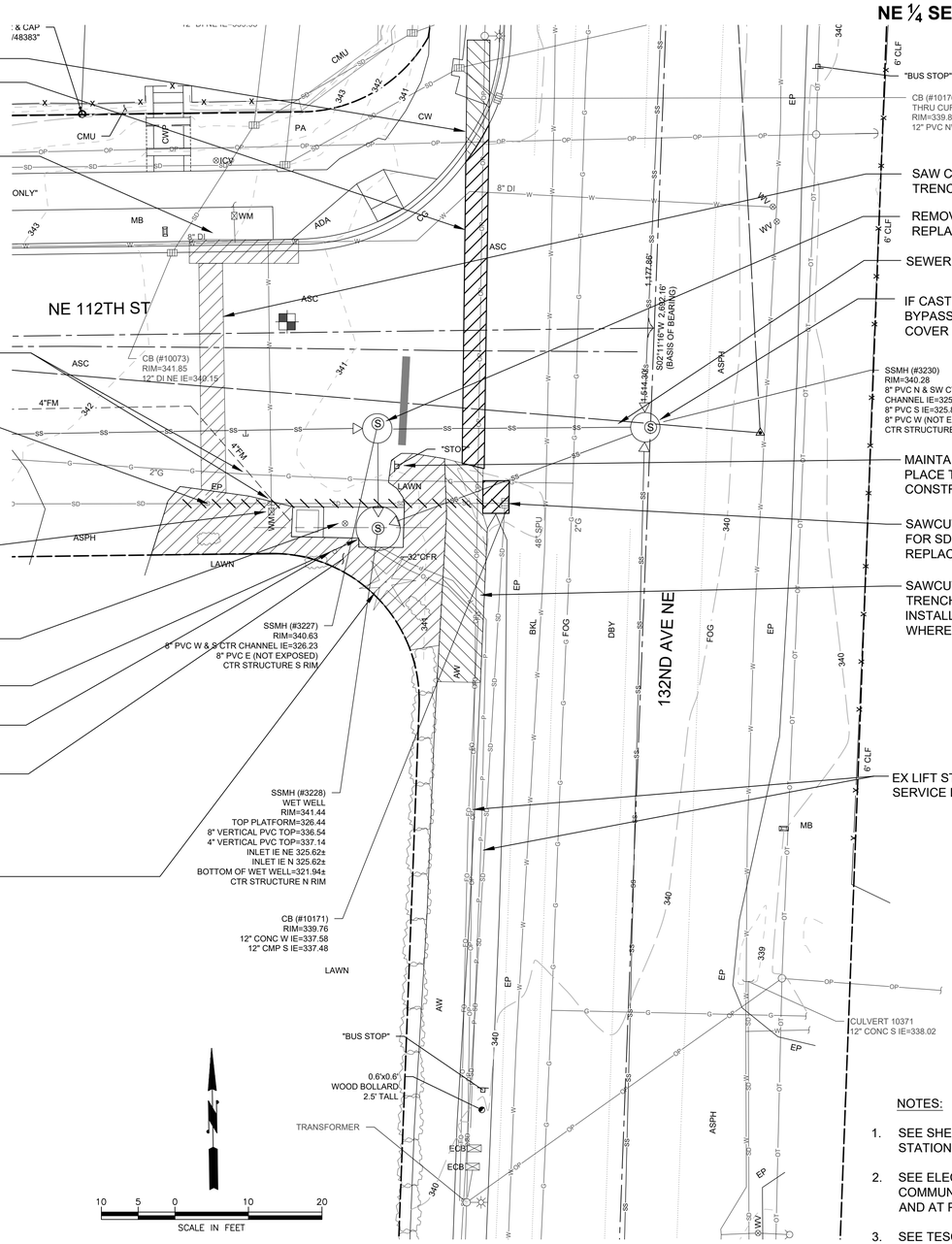
REMOVE EX DAVIT SOCKET, CONC BASE (APPROXIMATELY 1 CY), AND SONOTUBE

REMOVE EX CONCRETE PAD IN ITS ENTIRETY

REMOVE EX AIR VENT AND PIPE TO DRY WELL STRUCTURE

REMOVE RHODODENDRON (2), JAPANESE MAPLE, BORDER ROCKS, LAWN PATCH AROUND STOP SIGN AND BARK BETWEEN STATION AND LAWN, FROM DRIVEWAY TO WALKWAY ALONG 132ND AVE NE

REMOVE EX 32" DIAM CONIFEROUS TREE AND STUMP TO 12" BELOW GRADE. CUT ROOTS TO SOUTHWEST, REMOVE ROOTS WHERE EXPOSED FOR WET WELL WORK.



SAW CUT AND REMOVE EX PAVEMENT, EXCAVATE TRENCH FOR REPLACEMENT WATER SERVICE

REMOVE EX MH FRAME AND COVER. REPLACE PER SITE PLAN, SHEET C5

SEWER LINE NOT IN SERVICE

IF CASTINGS ARE REMOVE FOR SEWER BYPASS WORK, REPLACE WITH FRAME AND COVER PER SITE PLAN, SHEET C5

MAINTAIN STOP SIGN IN SERVICE OR PLACE TEMPORARY IF DISTURBED FOR CONSTRUCTION, AND REPLACE

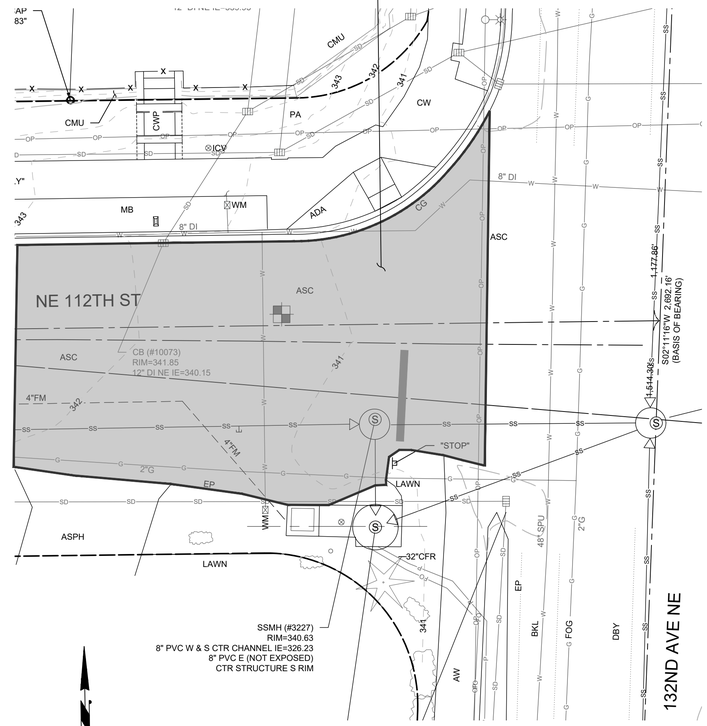
SAWCUT AND REMOVE EX PAVEMENT FOR SD AND CB REMOVAL AND REPLACEMENT

SAWCUT AW SIDEWALK FOR ELECTRICAL TRENCH AND TRANSFORMER INSTALLATION. REMOVE FULL WIDTH WHERE DISTRUBED.

EX LIFT STATION POWER AND COMM SERVICE LINES (APPROX. ROUTING)

SITE PLAN - DEMOLITION

GRIND AND OVERLAY AREA WITH 2" OF HMA CLASS 1/2" PG 64-22



FINAL OVERLAY SITE PLAN

NOTES:

1. SEE SHEET C4 FOR ADDITIONAL DEMOLITION OF LIFT STATION STRUCTURES AND EQUIPMENT.
2. SEE ELECTRICAL SHEETS FOR ELECTRICAL AND COMMUNICATION EQUIPMENT DEMOLITION AT STATION AND AT POWER/COMMUNICATION SERVICE LOCATION
3. SEE TESC SHEETS FOR WORK TO BE COMPLETED PRIOR TO COMMENCEMENT OF DEMOLITION.

811 Know what's below. Call 811 before you dig.

DATE	NO.	REVISION	BY

RODNEY C. LANGER, STATE OF WASHINGTON, 30046, REGISTERED PROFESSIONAL ENGINEER, 07/08/20

UPI NO.: UPI#	FED. AID PROJ. NO.: AID#
SURVEY NO.: SURVEY#	FIELD BOOK(S): BOOKS
HORZ. DATUM: HORZDATUM	VERT. DATUM: VERTDATUM
DESIGNED BY: DESIGNER APSE	DRAWN BY: DRAWN DNJ

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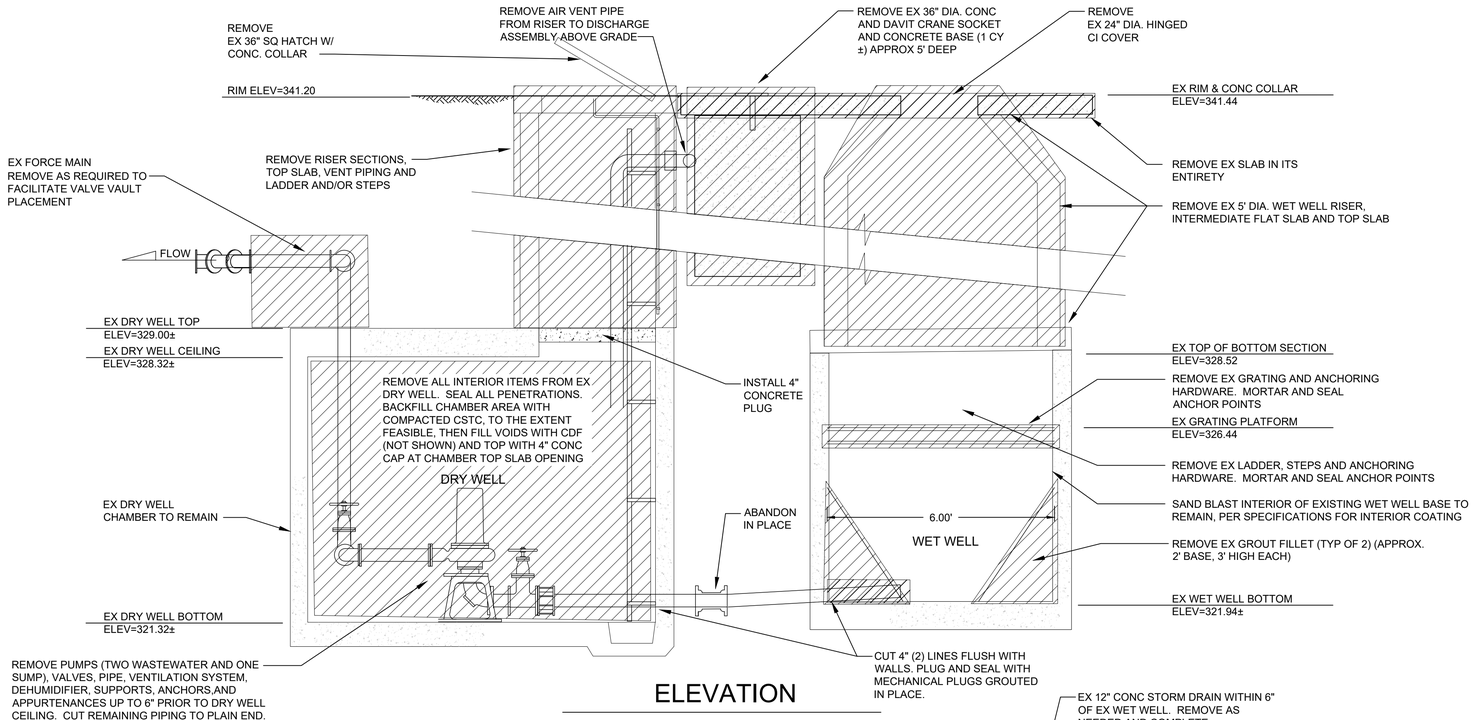
FUNDING NO. 34-24-PW

TREND LIFT STATION PROJECT

DEMOLITION AND FINAL OVERLAY SITE PLAN

REFERENCE SHEET NO. C3

SHEET 3 OF 20 SHEETS



NOTES:

1. SEE TESC SHEETS FOR WORK TO BE COMPLETED PRIOR TO COMMENCEMENT OF DEMOLITION.
2. BACKFILL VOIDS OUTSIDE EXISTING STRUCTURE WITH GRAVEL BORROW COMPACTED TO 95% DENSITY.

DATE	NO.	REVISION	BY

RODNEY C. LANGER — STATE OF WASHINGTON — 30046 — REGISTERED PROFESSIONAL ENGINEER — 08/05/25

UPI NO.: UPI#	FED. AID PROJ. NO.: AID#
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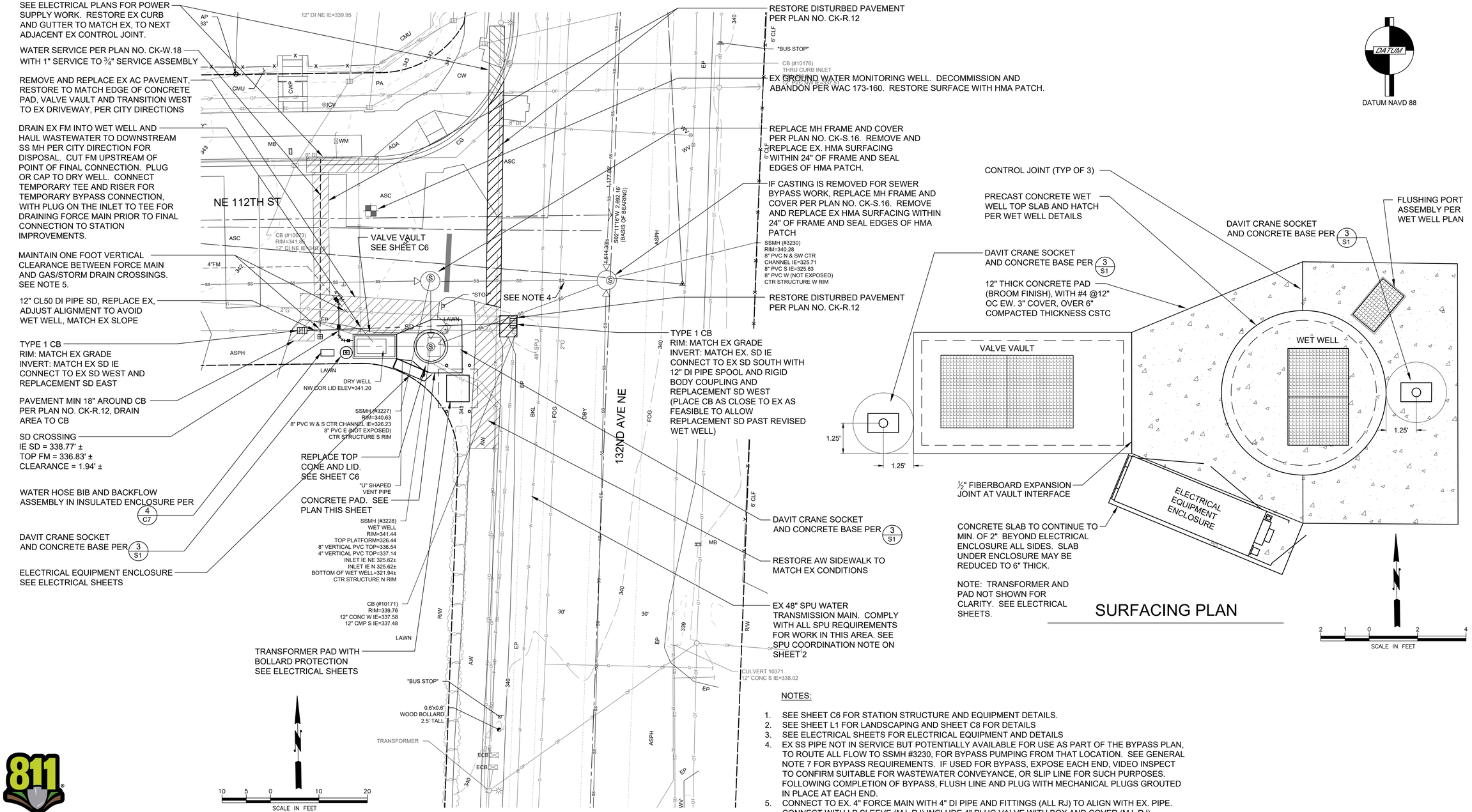
FUNDING NO. 34-24-PW

TREND LIFT STATION PROJECT

EXISTING WET WELL AND DRY WELL SELECTIVE DEMOLITION

REFERENCE SHEET NO. C4

SHEET 4 OF 20 SHEETS



SITE PLAN

SURFACING PLAN

NOTES:

1. SEE SHEET C6 FOR STATION STRUCTURE AND EQUIPMENT DETAILS.
2. SEE SHEET L1 FOR LANDSCAPING AND SHEET C8 FOR DETAILS
3. SEE ELECTRICAL SHEETS FOR ELECTRICAL EQUIPMENT AND DETAILS
4. EX SS PIPE NOT IN SERVICE BUT POTENTIALLY AVAILABLE FOR USE AS PART OF THE BYPASS PLAN, TO ROUTE ALL FLOW TO SSMH #3230, FOR BYPASS PUMPING FROM THAT LOCATION. SEE GENERAL NOTE 7 FOR BYPASS REQUIREMENTS. IF USED FOR BYPASS, EXPOSE EACH END, VIDEO INSPECT TO CONFIRM SUITABLE FOR WASTEWATER CONVEYANCE, OR SLIP LINE FOR SUCH PURPOSES. FOLLOWING COMPLETION OF BYPASS, FLUSH LINE AND PLUG WITH MECHANICAL PLUGS GROUTED IN PLACE AT EACH END.
5. CONNECT TO EX. 4" FORCE MAIN WITH 4" DI PIPE AND FITTINGS (ALL RJ) TO ALIGN WITH EX. PIPE. CONNECT WITH LP SLEEVE (MJ, RJ) INCLUDE 4" PLUG VALVE WITH BOX AND COVER (MJ, RJ)

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DATE	NO.	REVISION	BY

RODNEY C. LANGER JR. STATE OF WASHINGTON 30046 REGISTERED PROFESSIONAL ENGINEER 08/05/25

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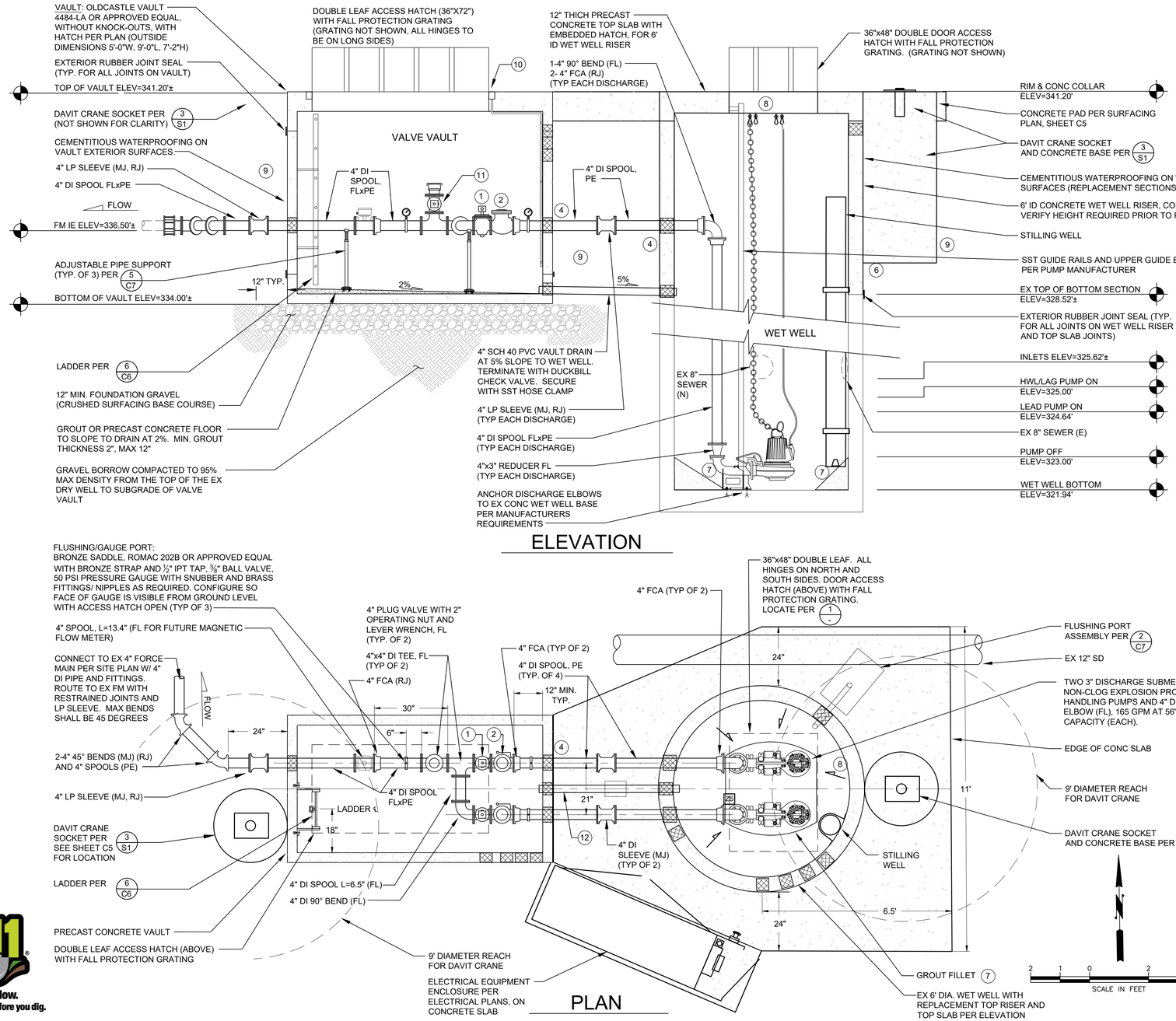
FUNDING NO. 34-24-PW

TREND LIFT STATION PROJECT

SITE AND SURFACING PLANS

REFERENCE SHEET NO. C5

SHEET 5 OF 20 SHEETS

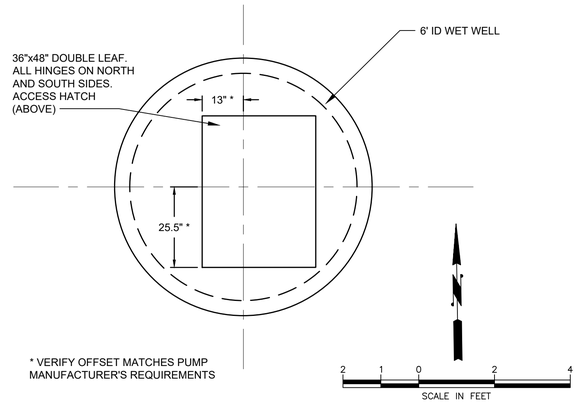


ELEVATION

PLAN

KEY NOTES

1. 4" PLUG VALVE WITH 2" OPERATING NUT AND LEVER WRENCH, FL (TYP. OF 2)
2. 4" SWING CHECK VALVE, FL WITH SPRING AND LEVER (SEE ELECTRICAL SHEETS FOR LIMIT SWITCHES) (TYP. OF 2)
3. CONNECT FORCE MAIN TO PIPE WITH RESTRAINED COUPLING ADAPTER.
4. CORE THROUGH CONCRETE, INSTALL PIPING AND PROVIDE LINK SEAL WITH PIPING PER DETAIL 1, SHEET C7. TYPICAL FOR ALL VAULT AND WET WELL PIPE AND CONDUIT PENETRATIONS. SEE ELECTRICAL SHEETS FOR ADDITIONAL SEALED PENETRATIONS.
5. FLUSHING PORT ASSEMBLY PER DETAIL 7, SHEET C7.
6. REPLACE RISERS AND TOP SECTION. REPLACE BUTYL RUBBER SEAL AT CONNECTION WITH EXISTING CONCRETE.
7. REMOVE FILLETS AND REPLACE AS SHOWN. NOTCH FILLET TO ACCOMMODATE STILLING WELL. TO ALLOW PLACEMENT OF TRANSDUCER IN STILLING WELL AT 6" BELOW PUMP OFF ELEVATION.
8. REPLACE RISER, CONE AND TOP SECTION OF WET WELL WITH 6' DIA. RISER AND FLAT TOP SECTION WITH 36"x48" ACCESS HATCH. ALIGN HATCH TO PUMPS AND GUIDE RAIL ASSEMBLIES PER PUMP MANUFACTURER.
9. BACKFILL VOIDS AROUND VALVE VAULT AND WET WELL WITH GRAVEL BORROW COMPACTED TO 95% DENSITY, UNLESS NOTED OTHERWISE IN SPECIFIC LOCATIONS.
10. 1½" Ø ACCESS HATCH DRAIN: PLUMB TO SUMP WITH 1½"Ø SCH 40 PVC. ANCHOR TO WALL/CEILING/FLOOR.
11. 4" DI TEE, FL
    4" PLUG VALVE ¼ TURN, FL
    4" MALE FLxNPT ADAPTER
    4" FEMALE NPT x 4" CAMLOCK ADAPTER
    W/ 4" MALE CAMLOCK CAP
12. 4" SCH 40 PVC VAULT DRAIN AT 5% SLOPE TO WET WELL. TERMINATE PER ELEVATION NOTE.



1/- DETAIL - WET WELL HATCH LOCATION

FINISH SCHEDULE

LOCATION	DESIGNATION	COLOR
WET WELL DI PIPING*	I-2	BLACK
VALVE VAULT PIPING/VALVES	I-1	BLUE-GRAY
WET WELL INTERIOR SURFACES	C-1	WHITE

*NOT INCLUDING DISCHARGE ELBOWS.

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RODNEY C. LANGERAK, STATE OF WASHINGTON, 30046, REGISTERED PROFESSIONAL ENGINEER, 08/05/25

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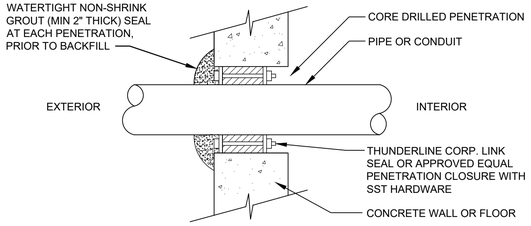
FUNDING NO. 34-24-PW

TREND LIFT STATION PROJECT

WET WELL AND VALVE VAULT

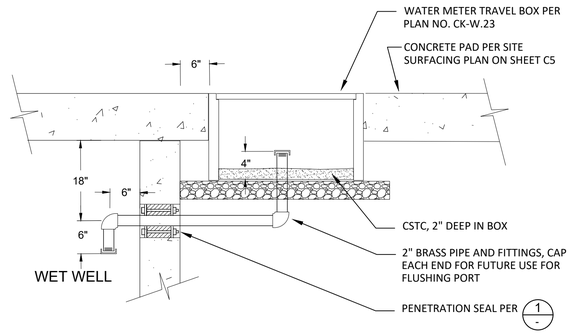
REFERENCE SHEET NO. C6

SHEET 6 OF 20 SHEETS

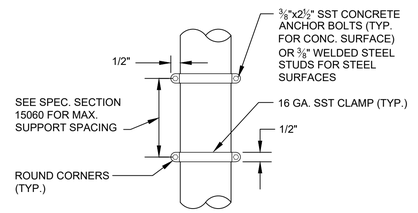


NOTE:
THIS DETAIL SHALL BE USED FOR PIPE PENETRATIONS ON ALL CONCRETE STRUCTURES, INCLUDING ELECTRICAL CONDUIT, AIR DUCTS, WATER OR WASTEWATER PIPES, AND DRAIN PIPES, UNLESS OTHERWISE NOTED.

1 / VAR DETAIL - PENETRATION SEAL
NTS

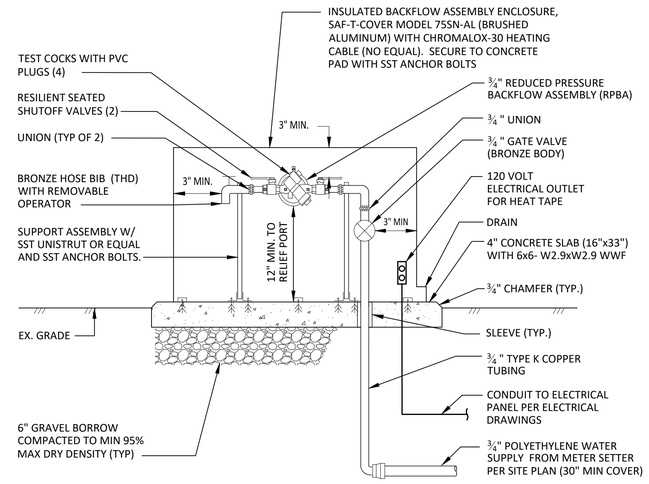


2 / C6 DETAIL - FLUSHING PORT ASSEMBLY
NTS



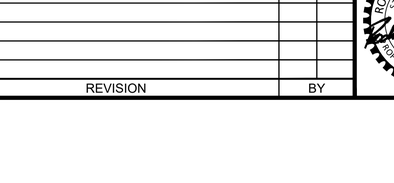
NOTE:
INSTALL SPACER BETWEEN CLAMP AND STRUCTURE TO PROVIDE SPACE BETWEEN DUCT AND STRUCTURE AS NECESSARY TO AVOID CONFLICTS WITH ELECTRICAL CONDUITS

3 / - DETAIL - PIPE / DUCT CLAMP
NTS



NOTES:
1. APPROVED REDUCED PRESSURE BACKFLOW ASSEMBLY TO LAY HORIZONTAL ONLY.
2. ASSEMBLY SHALL BE TESTED PER SPECIFICATION FOLLOWING INSTALLATION.
3. THOROUGHLY FLUSH LINES PRIOR TO INSTALLATION OF BACKFLOW PREVENTER.
4. THE BACKFLOW ASSEMBLY SHALL BE A STATE APPROVED MODEL.
5. ADEQUATE GRAVITY DRAINAGE SYSTEM REQUIRED W/APPROVED AIR GAP.

4 / - DETAIL - RPBA IN ENCLOSURE



NOTE:
1. ALL SUPPORT MATERIALS SHALL BE HOT-DIPPED GALVANIZED OR CAST-IRON.
2. FOR STEEL SURFACES, WELD STUDS TO STRUCTURE FOR MOUNTING. FOR CONCRETE STRUCTURES, MOUNT WITH ⅜" SST ANCHOR BOLTS.

5 / C5 DETAIL - ADJUSTABLE PIPE SUPPORT
NTS

6 / C6 DETAIL - FIBERGLASS LADDER
NTS

Know what's below. Call 811 before you dig.

DATE	NO.	REVISION	BY

RODNEY C. LANGER, STATE OF WASHINGTON, 30046, REGISTERED PROFESSIONAL ENGINEER, 08/05/25

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FUNDING NO. 34-24-PW

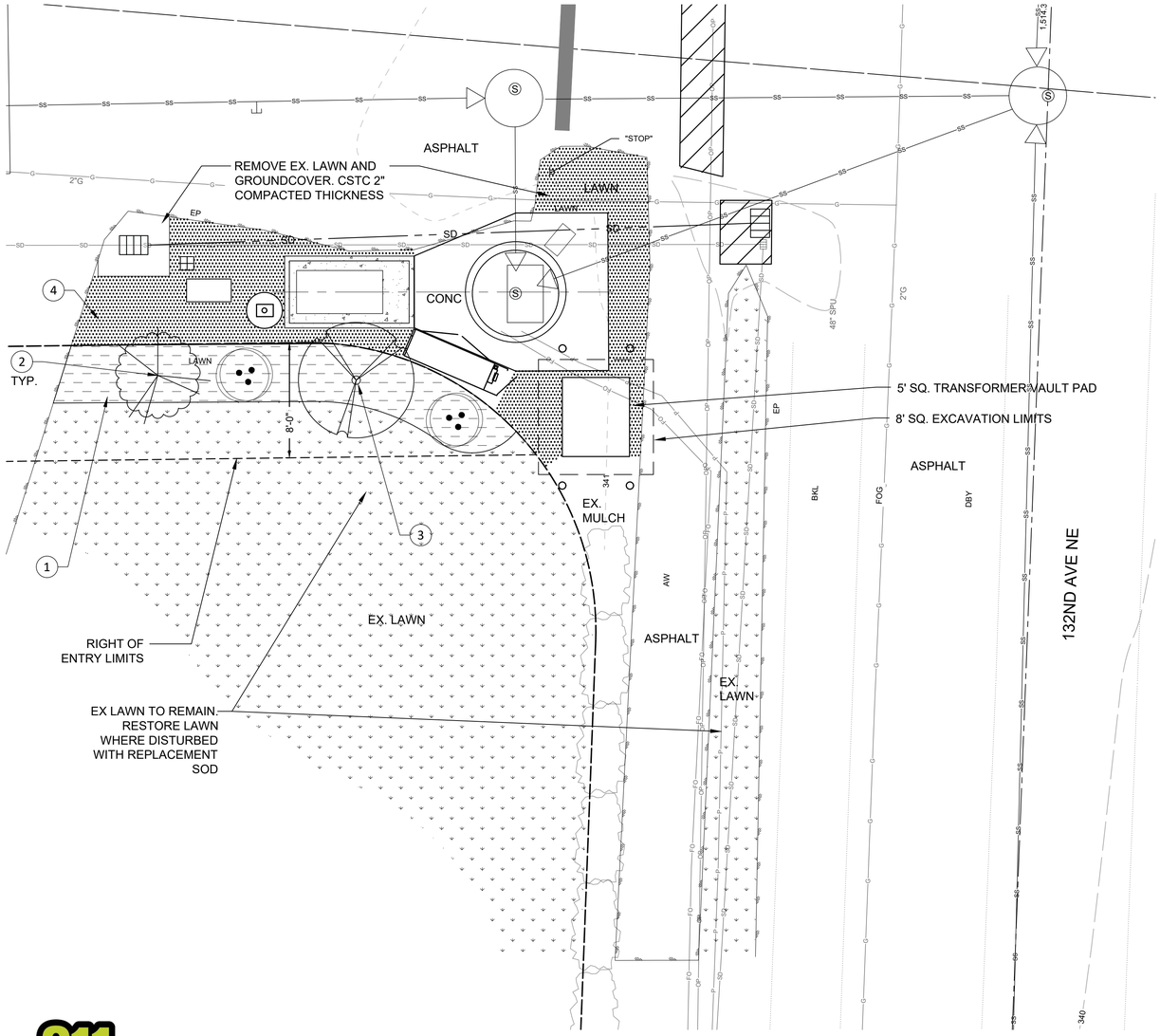
TREND LIFT STATION PROJECT

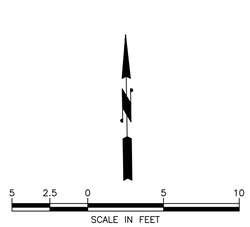
DETAILS

REFERENCE SHEET NO. C7

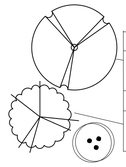
SHEET 7 OF 20 SHEETS

NE ¼ SEC. 33, TW. 26N, R.5E, WM





LANDSCAPE PLANT SCHEDULE



BOTANICAL NAME	COMMON NAME	SIZE	COND.	SPACING	QTY.	REMARKS
TREES						
ACER PALMATUM 'SHINDESHOJO'	JAPANESE MAPLE	1.5" CAL. MIN.	B&B	AS SHOWN	1	SINGLE LEADER
SHRUBS						
PHILADELPHUS LEWISII	MOCK ORANGE	48" HT. MIN.	7 GAL.	AS SHOWN	1	MULTI-STEMMED
RHODODENDRON 'ELSIE WATSON'	ELSIE WATSON RHODODENDRON	36" HT. MIN.	7 GAL.	AS SHOWN	2	FULL, WELL BRANCHED

GENERAL NOTES:

1. SEE SHEET L2 FOR LANDSCAPING NOTES AND DETAILS.

CONSTRUCTION NOTES:

(1) PREPARE PLANTING AREA PER DETAIL 1 ON SHEET L2.

(2) INSTALL SHRUBS PER DETAIL 2 ON SHEET L2.

(3) INSTALL TREE PER DETAIL 3 ON SHEET L2.

(4) REMOVE EX LAWN AND INSTALL 2" CSTC COMPACTED THICKNESS.

LEGEND

BARK OR WOODCHIP MULCH

CSTC

Know what's below. Call 811 before you dig.

SITE PLAN - LANDSCAPING

DATE	NO.	REVISION	BY

STATE OF WASHINGTON · JONATHAN C. GAGE · 24852 · REGISTERED LANDSCAPE ARCHITECT · EXP. 03/05/25 · 08/05/25

UPI NO.: UPI#	FED. AID PROJ. NO.: AID#
SURVEY NO.: SURVEY#	FIELD BOOK(S): BOOKS
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DESIGNED BY: DESIGNER SYS/JCGA	DRAWN BY: DRAWN DNJ/SYS

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FUNDING NO. 34-24-PW

TREND LIFT STATION PROJECT

LANDSCAPING SITE PLAN

REFERENCE SHEET NO. L1

SHEET 8 OF 20 SHEETS

PLANTING NOTES

GENERAL

1. ALL WORK SHALL BE DONE AS SHOWN IN THE DRAWINGS AND IN CONFORMANCE WITH THE PROJECT SPECIFICATIONS. THE DRAWINGS SHALL TAKE PRECEDENCE OVER THE SPECIFICATIONS SHOULD THEY CONFLICT.

SITE PREPARATION

1. A PRECONSTRUCTION MEETING BETWEEN THE OWNER'S REPRESENTATIVE AND CONTRACTOR SHALL OCCUR PRIOR TO CONSTRUCTION.

2. SELECTIVELY CLEAR AND GRUB PLANTING AREAS OF ALL EXISTING VEGETATION (AS NECESSARY). OWNER'S REPRESENTATIVE SHALL APPROVE CLEARING LIMITS IN PLANTING AREAS PRIOR TO BEGINNING WORK.

3. GRUB TO A DEPTH SUFFICIENT TO REMOVE ALL ROOTS, ROOT CROWNS, AND OTHER VEGETATIVE MATERIAL. ALL VEGETATIVE MATERIAL SHALL BE REMOVED FROM SITE.

4. ALL BEDS TO BE AMENDED WITH 4 INCHES OF FINE COMPOST TILLED INTO 8" OF EXISTING SOIL BACKFILL FOR A TOTAL DEPTH OF 12" AMENDED SOIL.

PLANTING GENERAL

1. ALL PLANT MATERIAL MUST CONFORM TO A.N.L.A. (AMERICAN NURSERY AND LANDSCAPE ASSOCIATION) STANDARDS FOR BOTH PLANT SIZE AND FORM.

2. ALL PLANT QUANTITIES SHALL BE VERIFIED BY THE CONTRACTOR. SUBSTITUTIONS SHALL BE AUTHORIZED BY THE OWNER'S REPRESENTATIVE. IF PLANTS ARE NOT AVAILABLE, CONTACT THE OWNER'S REPRESENTATIVE FOR APPROVED SOURCES OR SUBSTITUTIONS.

3. PLANT MATERIALS SHALL BE INSPECTED BY THE OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION. INSPECTION MAY INCLUDE, BUT IS NOT LIMITED TO, APPROPRIATE NUMBER OF CANES FOR THE SPECIES; CROWN; HEALTH; ROOT STRUCTURE; AND VIGOR.

4. IN THE EVENT OF VARIATION BETWEEN THE PLANT SCHEDULE AND THE NUMBER OF PLANTS SHOWN ON THE PLANS, THE PLANS SHALL CONTROL.

5. NO PLANT INSTALLATION SHALL OCCUR IN STANDING WATER OR SATURATED OR FROZEN SOILS. IN THE EVENT OF THIS CONDITION, PLANT INSTALLATION SHALL BE POSTPONED UNTIL CONDITIONS ARE APPROPRIATE OR REMEDIED AND APPROVED BY OWNER'S REPRESENTATIVE.

6. PLANTING SHALL OCCUR: MARCH 1 THROUGH MAY 15 OR SEPTEMBER 1 THROUGH OCTOBER 1. SEEDING SHALL OCCUR: MARCH 1 THROUGH MAY 15 AND SEPTEMBER 1 THROUGH OCTOBER 1.

PLANTING INSTALLATION

1. OWNER'S REPRESENTATIVE SHALL APPROVE THE METHOD AND LAYOUT OF PLANTING IN THE PLANTING AREAS PRIOR TO PLANT INSTALLATION (PLANTINGS NEAR EXISTING VEGETATION TO REMAIN SHALL BE FIELD-ADJUSTED).

2. ALL SHRUBS IN THE PLANTING AREAS SHALL BE INSTALLED PER THE PLANS AND AS SHOWN IN THE PLANTING DETAILS.

3. ADD GRANULAR 14 MONTH SLOW RELEASE, HIGH NITROGEN FERTILIZER (OSMOCOTE 14-14-14 OR APPROVED EQUAL) TO SHRUB PITS PRIOR TO BACKFILL. APPLY PER MANUFACTURER'S WRITTEN INSTRUCTIONS.

MULCH

BARK OR WOODCHIP MULCH FOR PLANTING AREAS SHALL MEET REQUIREMENTS OF 2025 WSDOT STANDARD SPECIFICATIONS 9-14.5(3). SPECIFIED DEPTH IS POST SETTLEMENT.

COMPOST

COMPOST SOIL AMENDMENT FOR PLANTING AREAS SHALL MEET REQUIREMENTS OF 2025 WSDOT STANDARD SPECIFICATIONS 9-14.5(8).

SOD

SOD FOR LAWN RESTORATION SHALL BE THREE-WAY PERENNIAL RYEGRASS BLEND (JB PERENNIAL RYEGRASS SOD OR APPROVED EQUAL).

IRRIGATION

1. ALL PLANTINGS SHALL BE HAND-WATERED BY THE CONTRACTOR FOR ESTABLISHMENT DURING THE WARRANTY PERIOD. PLANTINGS SHALL RECEIVE AT LEAST ONE INCH OF WATER PER WEEK DURING THE GROWING SEASON (MAY 15 TO OCTOBER 15). THE CONTRACTOR SHALL SUBMIT WATERING METHOD. (E.G. WATERING TRUCK, IRRIGATION BAGS, ETC) TO THE OWNER FOR APPROVAL.

WARRANTY

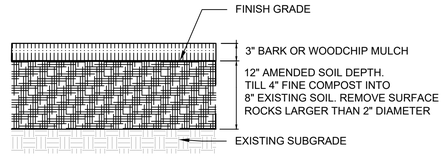
1. THE CONTRACTOR SHALL WARRANT ALL MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM FINAL ACCEPTANCE. THE CONTRACTOR IS RESPONSIBLE FOR ALL PLANTS AND MATERIALS DURING INSTALLATION AND THE WARRANTY PERIOD.

2. CONTRACTOR SHALL WARRANT ALL PLANT MATERIALS TO REMAIN ALIVE AND HEALTHY DURING THIS PERIOD. THE CONTRACTOR SHALL REPLACE ALL DEAD OR UNHEALTHY PLANTS, PER PLANS AND AS IDENTIFIED BY THE OWNER'S REPRESENTATIVE AT THE WARRANTY INSPECTION.

MAINTENANCE

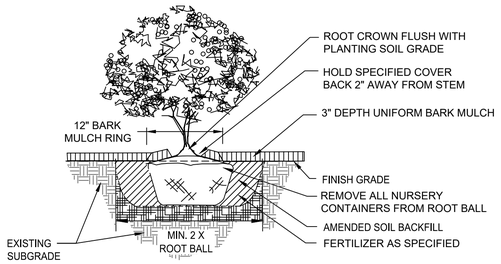
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LANDSCAPE MAINTENANCE FROM FINAL ACCEPTANCE THROUGH THE WARRANTY PERIOD.

2. MAINTENANCE SHALL INCLUDE: WATER, FERTILIZER, WEEDING, SPRAYING, RE-SETTLING, AND STAKING OF UNSTABLE PLANTS INCLUDING PLANTS THAT HAVE BEEN BLOWN OVER, AND OTHER MAINTENANCE NECESSARY TO ASSURE HEALTHY PLANT GROWTH THROUGHOUT THE WARRANTY PERIOD.



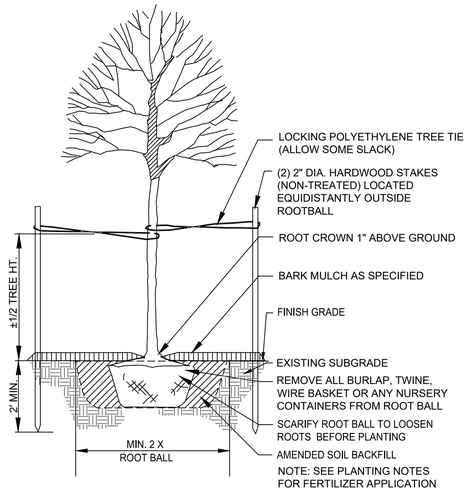
1 PLANTING AREA SOIL PREPARATION

NOT TO SCALE



2 SHRUB PLANTING

NOT TO SCALE



3 TREE PLANTING

NOT TO SCALE

Know what's **below.**
Call 811 before you dig.

DATE	NO.	REVISION	BY

STATE OF WASHINGTON · JONATHAN C. SAGE · 21022 · REGISTERED LANDSCAPE ARCHITECT · 08/05/25

UPI NO.: UPI#	FED. AID PROJ. NO.: AID#
SURVEY NO.: SURVEY#	FIELD BOOK(S): BOOKS
HORZ. DATUM: HORZDATUM	VERT. DATUM: VERTDATUM
DESIGNED BY: DESIGNER SYS/JCGA	DRAWN BY: DRAWN DNJ/SYS

DAVID EVANS AND ASSOCIATES INC.
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Bellevue, WA 98007
425.519.6500

CITY OF KIRKLAND
DEPARTMENT OF PUBLIC WORKS
123 FIFTH AVENUE KIRKLAND, WA 98033
(425) 587-3800 www.kirklandwa.gov

FUNDING NO. 34-24-PW

TREND LIFT STATION PROJECT

LANDSCAPING NOTES AND DETAILS

REFERENCE SHEET NO. L2

SHEET 9 OF 20 SHEETS

STRUCTURAL SHEETS:

S1 GENERAL NOTES, DETAILS

GENERAL STRUCTURAL NOTES:

1. THESE NOTES ARE GENERAL IN NATURE AND ARE INTENDED TO SET MINIMUM STANDARDS FOR CONSTRUCTION. THE CONTRACTOR SHALL BE COMPLETELY FAMILIAR WITH THE CONTRACT DOCUMENTS AND HAVE A COPY OF THEM ON SITE AT ALL TIMES.
2. FOR ANY PORTION OF THE CONSTRUCTION WHICH THE CONTRACTOR IS UNABLE TO ASCERTAIN THE REQUIRED CONSTRUCTION OR WHERE CONFLICTS EXIST, IT IS THE CONTRACTOR'S RESPONSIBILITY TO REQUEST ADDITIONAL INFORMATION (RFIs) AND/OR CLARIFICATIONS BEFORE CONSTRUCTION.
3. ALL WORK SHALL BE IN STRICT CONFORMANCE WITH THE 2015 INTERNATIONAL BUILDING CODE (IBC) W/ WASHINGTON AMENDMENTS. ALL BUILDING ELEMENTS AND COMPONENTS NOT SPECIFICALLY DETAILED IN THESE STRUCTURAL CONSTRUCTION DOCUMENTS SHALL BE FABRICATED AND CONSTRUCTED IN ACCORDANCE WITH THE MINIMUM STANDARDS CONTAINED IN SECTION 2308 – CONVENTIONAL LIGHT–FRAME CONSTRUCTION OF CHAPTER 23 OF THE IBC AND/OR THE 2015 EDITION OF THE INTERNATIONAL RESIDENTIAL CODE (IRC) AS AMENDED BY THE STATE OF WASHINGTON.
4. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS BEFORE CONSTRUCTION. THE ARCHITECT AND ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES OR INCONSISTENCIES.
5. THE CONTRACTOR, SUBCONTRACTORS AND SUPPLIERS SHALL ENSURE COORDINATION OF CONTRACTOR SUPPLIED/DESIGNED ELEMENTS AND DEFERRED SUBMITTALS WITH ALL DESIGN DISCIPLINES WITHIN THE CONSTRUCTION SET. COORDINATION SHALL IDENTIFY AND RECONCILE CONFLICTS BETWEEN THE CONTRACTOR SUPPLIED/DESIGNED ELEMENTS AND THE CONSTRUCTION DRAWINGS PRIOR TO FABRICATION AND DELIVERY TO THE PROJECT SITE. THE PROJECT ENGINEER SHALL BE NOTIFIED IF CONFLICTS EXIST.
6. THE CONTRACT STRUCTURAL DRAWINGS REPRESENT THE FINISHED STRUCTURE. METHODS, PROCEDURES, AND SEQUENCE OF CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO MAINTAIN AND ENSURE THE INTEGRITY OF THE STRUCTURE AT ALL STAGES OF CONSTRUCTION.
7. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN LIVE LOAD FOR THE STRUCTURE. PROVIDE SHORING AND/OR BRACING WHERE LOADS EXCEED DESIGN CAPACITY AND WHERE STRUCTURES HAVE NOT ATTAINED DESIGN STRENGTH.
8. CLADDING, WATERPROOFING, AND ARCHITECTURAL FEATURES ARE OUTSIDE THE STRUCTURAL SCOPE OF WORK. ANY DEPICTION OF SUCH FEATURES ON THE STRUCTURAL DRAWINGS ARE NOT INTENDED TO BE USED FOR CONSTRUCTION. REPRESENTATION OF SUCH FEATURES ON THESE DRAWINGS MAY OR MAY NOT BE ACCURATE. REFER TO ARCHITECTURAL DRAWINGS AND/OR SPECIFICATIONS.

DESIGN LOADS: PER 2015 IBC W/ WASHINGTON AMENDMENTS

LOADS PER MANUFACTURER (ULTIMATE LOADS)

DEAD LOAD	5000 LBS
MOMENT	90000 LB_IN

FOUNDATIONS:

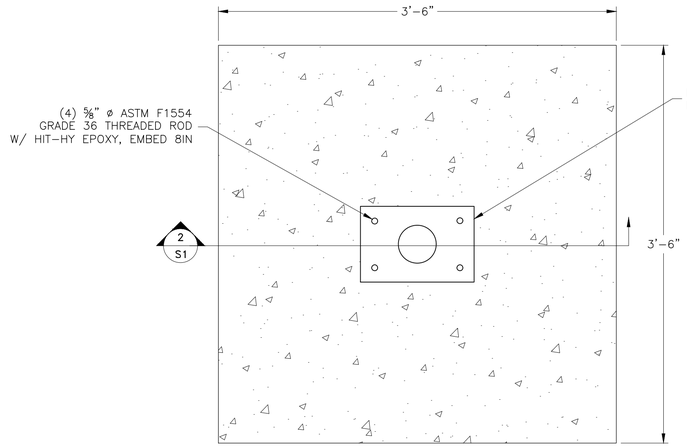
1. SOIL CHARACTERISTICS HAVE BEEN ASSUMED PER THE 2015 IBC SECTION 1806 PRESUMPTIVE LOAD–BEARING VALUES OF SOILS CONSISTENT WITH SAND, SILTY SAND, CLAYEY SAND, SILTY GRAVEL AND CLAYEY GRAVEL (SW, SP, SM, SC, GM AND GC) SOIL TYPES. THE CONTRACTOR SHALL VERIFY THE PRESUMED SOIL TYPES PRIOR TO CONSTRUCTION AND NOTIFY THE ENGINEER AND ARCHITECT OF NON–CONFORMING IN–SITU CONDITIONS IF PRESENT BEFORE PROCEEDING.
2. ALL FOUNDATIONS TO BEAR ON UNDISTURBED NATIVE MATERIAL, OR GRANULAR COMPACTED FILL.
3. SOIL DESIGN CRITERIA, PER 2015 IBC SECTION 1806:
   - 3.1. SOIL BEARING – 1,500 PSF
   - 3.2. SOIL PROFILE – D
   - 3.3. EMBEDDED POLES, PASSIVE – 500 PCF

CONCRETE:

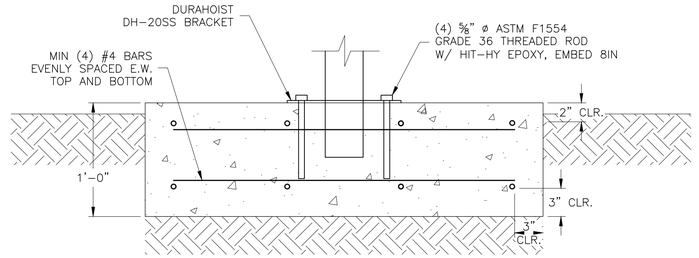
1. ALL CONCRETE SHALL BE HARD ROCK CONCRETE MEETING REQUIREMENTS OF ACI–301, "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS". MIX PROPORTIONS SHALL BE PER ACI–301, METHOD 2 OR THE ALTERNATE PROCEDURE. SUBMIT MIX DESIGN FOR REVIEW BY STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION.
2. STRUCTURAL CONCRETE SHALL ATTAIN THE FOLLOWING MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS:

TYPE	f'c	SLUMP	w/c	AIR
FOOTINGS	4,500 psi	1–4"	0.45	5%

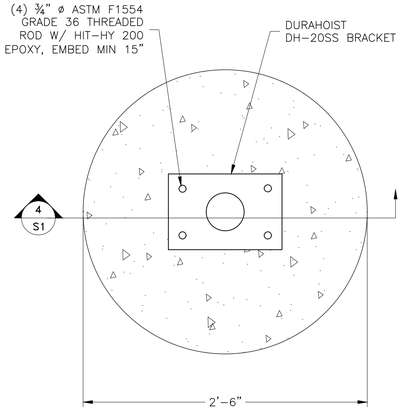
3. ALL CONCRETE EXPOSED TO WEATHER SHALL CONTAIN 6% (±) 1% AIR ENTRAINMENT BY VOLUME. AIR ENTRAINMENT SHALL BE IN CONFORMANCE WITH ASTM C260 AND C494.
4. COLD WEATHER PLACEMENT SHALL CONFORM TO ACI–306. HOT WEATHER PLACEMENT SHALL CONFORM TO ACI–305. MECHANICALLY VIBRATE ALL FORMED CONCRETE. DO NOT OVER–VIBRATE. PLACE CONCRETE MONOLITHICALLY BETWEEN CONSTRUCTION OR CONTROL JOINTS. PROTECT ALL CONCRETE FROM PREMATURE DRYING.
5. CHAMFER ALL EXTERIOR CORNERS 1/2" UNLESS SHOWN OTHERWISE.
6. SLUMP LIMITS MAY BE INCREASED BY ADDITION OF ADMIXTURES PROVIDED THAT THE WATER/CEMENT RATIO OF THE ORIGINAL MIX DESIGN IS NOT EXCEEDED. WATER REDUCING ADMIXTURE SHALL BE IN CONFORMANCE WITH ASTM494, USED IN CONFORMANCE WITH MANUFACTURER'S INSTRUCTIONS. SUBMIT ADMIXTURES TO ENGINEER FOR REVIEW PRIOR TO CONSTRUCTION.
7. CEMENT SHALL BY TYPE I OR II IN CONFORMANCE WITH ASTM C150. AGGREGATES SHALL BE IN CONFORMANCE WITH ASTM C33 AND USE CRUSHED (NOT ROUND) GRAVEL OR STONE. COARSE AGGREGATES SHALL NOT EXCEED ¾". WATER SHALL BE CLEAN AND POTABLE.
8. REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60. GRADE 40 MAY BE USED FOR #3 AND SMALLER TIES AND STIRRUPS. DETAIL AND PLACE ACCORDING TO ACI MANUAL SP–66.
9. UNLESS OTHERWISE NOTED, MINIMUM COVER SHALL BE 1 1/2" FOR #5 AND SMALLER BARS, 2" FOR #6 AND LARGER BARS AND 3" WHEN POURED AGAINST EARTH. SUPPORT REINFORCEMENT WITH APPROVED CHAIRS, SPACERS, OR TIES.
10. PROVIDE MINIMUM 48 BAR DIAMETERS AT SPLICES. NO MORE THAN 50% OF REINFORCING SHALL BE SPLICED AT ANY LOCATION. UNLESS OTHERWISE NOTED, BEND ALL HORIZONTAL REINFORCING A MINIMUM OF 2'–0" AT CORNERS AND WALL/FOOTING INTERSECTIONS WITH MIN. EMBEDMENT BEYOND INTERFACE PER DEVELOPMENT LENGTH SPECIFIED IN ACI 318.
11. FORMWORK SHALL BE IN ACCORDANCE WITH ACI–347 "GUIDE TO FORMWORK FOR CONCRETE". FORMS SHALL BE DESIGNED BY THE CONTRACTOR. BRACING SHALL BE PROVIDED AS REQUIRED OR UNTIL THE CONCRETE HAS REACHED ITS SPECIFIED 28–DAY STRENGTH. ALL SHORING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. FORMWORK, SUPPORTS, AND SHORING SHALL PROVIDE FINISHED CONCRETE SURFACES AT ALL FACES: LEVEL, PLUMB, AND TRUE TO DIMENSIONS AND ELEVATIONS SHOWN IN THE DRAWINGS.



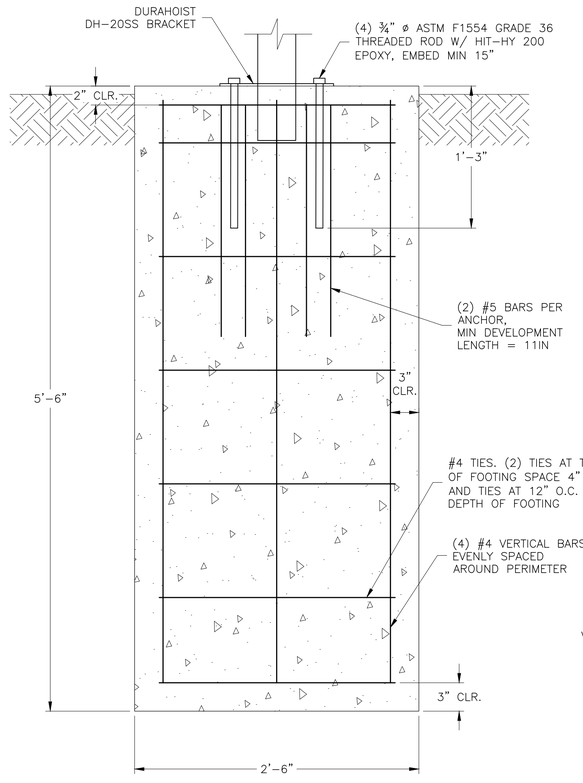
RECTANGULAR FOOTING 1 S1
1 1/2" = 1'–0"



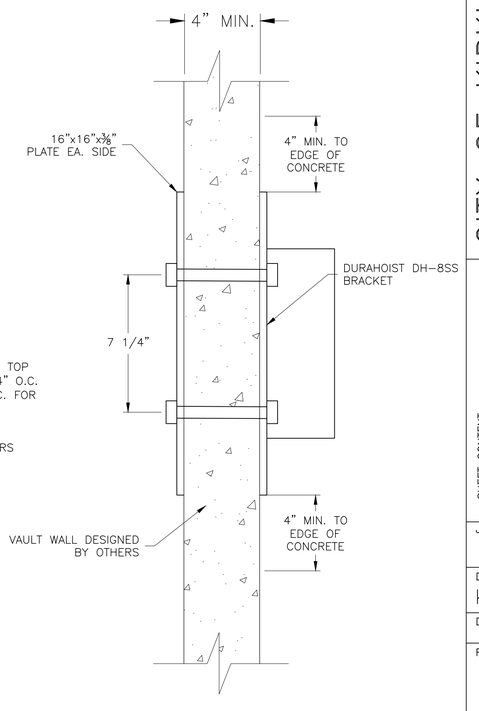
RECTANGULAR FOOTING SECTION DETAIL 2 S1
1 1/2" = 1'–0"



ROUND FOOTING 3 S1
1 1/2" = 1'–0"



ROUND FOOTING SECTION DETAIL 4 S1
1 1/2" = 1'–0"



WALL MOUNTED DETAIL 5 S1
3" = 1'–0"

SHEET NOTE:

THIS PLAN AND DESIGN WAS PREPARED BY THE ENGINEER NOTED HEREIN AND HAS BEEN PROVIDED TO DAVID EVANS AND ASSOCIATES, INC. BY THE CITY OF KIRKLAND FOR USE FOR THE TREND LIFT STATION PROJECT.

NOTICE 0 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

TRAVIS GREGORY McPHERSON
STATE OF WASHINGTON
45617
REGISTERED PROFESSIONAL ENGINEER
03/31/2020

PSE
PETERSON STRUCTURAL ENGINEERS
9400 SW Barnes Rd. Suite 100
Portland, Oregon 97225
(503) 292–1635

CLIENT INFO:
BRIAN CASEY
MURRAYSMITH
TACOMA, WA 98402

CITY OF KIRKLAND DAVIT CRANE
ANCHORAGE

SHEET CONTENT
GENERAL NOTES
DETAILS

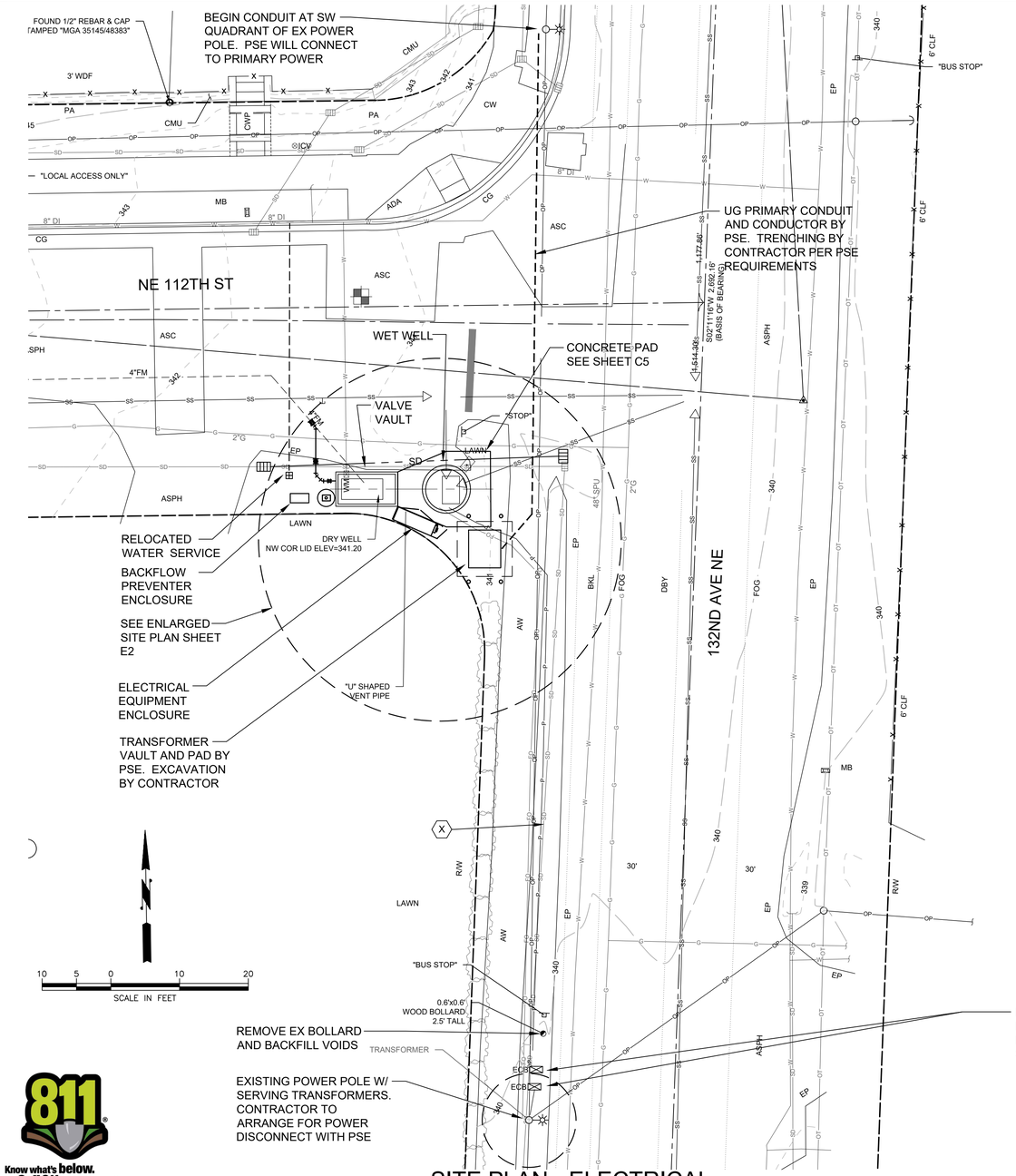
JOB No. 2001–0065

DRAWN KTK | CHECKED EDA

DATE 03/31/20

REVISIONS

SHEET S1 OF 1



SITE PLAN - ELECTRICAL

GENERAL ELECTRICAL AND ONE-LINE DIAGRAM SYMBOLS LEGEND

SYMBOL	DESCRIPTION
G P1-4	EXPOSED CONDUIT (CROSS TICKS INDICATE NUMBER OF AWG #12 UNLESS OTHERWISE NOTED) HOMERUN ARROW INDICATES TO PANEL P1, CKT 4
	CONDUIT ROUTED BELOW GROUND OR CONCEALED
	LIQUID TIGHT FLEXIBLE CONDUIT
	CONDUIT TURNED UP OR DOWN
	CONDUIT SEAL FITTING
	CORD GRIP BUSHING
G	GROUND CONDUCTOR (ON ONE-LINE DIAGRAM)
N	NEUTRAL CONDUCTOR (ON ONE-LINE DIAGRAM)
S	SIGNAL WIRING (ON ONE-LINE DIAGRAM)
	UTILITY CO 3 PHASE TRANSFORMER BANK
	DISCONNECT SWITCH
SPD	SURGE PROTECTIVE DEVICE
	CONDUCTOR CONNECTION (ON ONE-LINE DIAGRAM)
XA / XP	BREAKER: AMPERE RATING/ NO. OF POLES (ONE-LINE DIAGRAM)
M 20HP	MOTOR/PUMP-HORSEPOWER (ONE-LINE DIAGRAM)
WP GFI	DUPLEX RECEPTACLE, WEATHERPROOF, GROUND FAULT INTERRUPTER
OS	SWITCH; 20A,SINGLE POLE, OS - OCCUPANCY SENSOR
J	JUNCTION BOX
480 120/240	TRANSFORMER - SINGLE PHASE, VOLTAGE INDICATED
P	SWITCH; PILOT LT
F	EXHAUST FAN
	DISTRIBUTION BLOCK
F	LEVEL FLOAT SWITCH
SV	SOLENOID VALVE
	GROUND ROD (SEE DETAIL)
ZS	LIMIT SWITCH
FM	FLOW METER
A	ALARM HORN
XX	FLAG NOTE SYMBOL
XX	CONDUIT AND CONDUCTOR CALLOUT

GENERAL ELECTRICAL AND ONE-LINE DIAGRAM SYMBOLS LEGEND

SYMBOL	DESCRIPTION
M WHM	UTILITY METER, WATT HOUR METER
SSMS	SOLID STATE MOTOR STARTER
30A 30A	FUSED DISCONNECT SWITCH, AMPERE RATING, FUSE AMPERE RATING
	AUTOMATIC TRANSFER SWITCH
WP GFI P1-4	4 PLEX RECEPTACLE WEATHERPROOF, GROUND FAULT INTERPRETER,
	SWITCH (ONE-LINE DIAGRAM)
	LIMIT SWITCH (ONE-LINE DIAGRAM)
ISR	INTRINSICALLY SAFE BARRIER RELAY
MINI CAS	MOISTURE/HIGH TEMP SENSOR RELAY
HHI	HANDHOLE
X	EQUIPMENT SCHEDULE CALLOUT

ABBREVIATIONS LEGEND

SYMBOL	DESCRIPTION
C	CONDUIT
CPT	CONTROL POWER TRANSFORMER
GFI	GROUND FAULT INTERRUPTER
HP	HORSEPOWER
WP	WEATHERPROOF
CGB	CORD GRIP BRUSHING
EXP	EXPLOSION PROOF CX1, DIV1
BB	BREATHER BOX
2 PR	2 PAIR
TWSD	TWISTED
SHLD	SHIELDED
HH	HANDDHOLE
PFR	PHASE MONITOR/FAIL RELAY
SSMS	SOFT START MOTOR STARTER
OIT	OPERATOR INTERFACE TERMINAL

Know what's below. Call 811 before you dig.

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437 TILLICUM WAY
CAMANO ISLAND, WA 98282
(425) 941-6005
rjcasne@outlook.com

DATE	NO.	REVISION	BY

ROBERT J. CASNE — STATE OF WASHINGTON — 12218 — REGISTERED PROFESSIONAL ENGINEER — 08/05/25

UPI NO.: UPI#	FED. AID PROJ. NO.: AID#
SURVEY NO.: SURVEY#	FIELD BOOK(S): BOOKS
HORZ. DATUM: HORZDATUM	VERT. DATUM: VERTDATUM
DESIGNED BY: DESIGNER RJC	DRAWN BY: DRAWN DNJ

DAVID EVANS AND ASSOCIATES INC.
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425.519.6500

CITY OF KIRKLAND
DEPARTMENT OF PUBLIC WORKS
123 FIFTH AVENUE KIRKLAND, WA 98033
(425) 587-3800 www.kirklandwa.gov

FUNDING NO. 34-24-PW

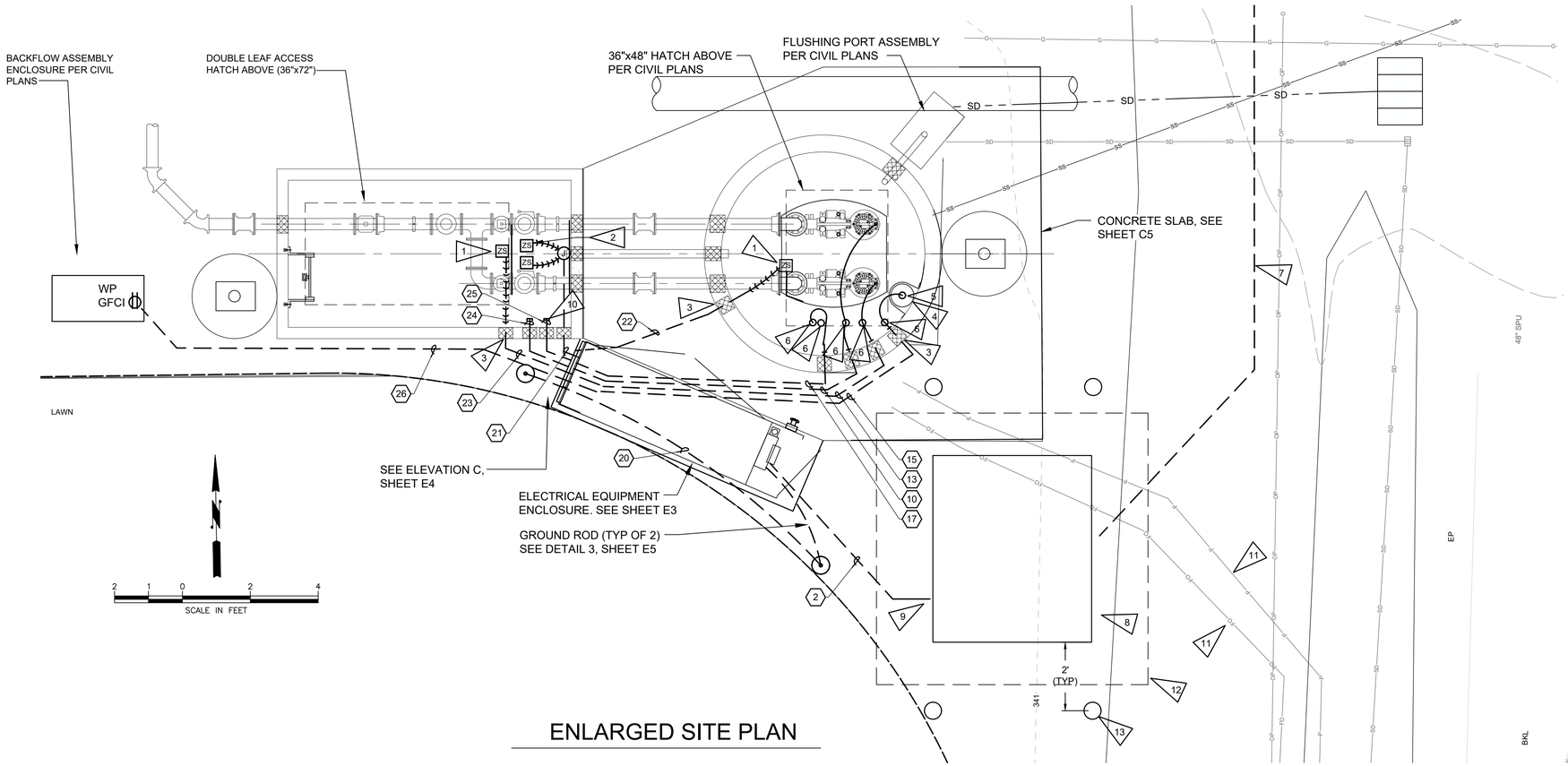
TREND LIFT STATION PROJECT

ELECTRICAL SITE PLAN, LEGEND AND ABBREVIATIONS

REFERENCE SHEET NO. E1

SHEET 11 OF 20 SHEETS

August 12, 2025 - 1:24 PM - SYS - P:\KIKIRX00009038\0400CAD\EC\SHEETS\KIRK0000-9038.DWG - Layout Name: SHT 11 E1



ENLARGED SITE PLAN

FLAG NOTES

1. INTRUSION ALARM LIMIT SWITCH ALLEN BRADLEY 802T-AP SERIES.
2. LIMIT SWITCH ON CHECK VALVE. ALLEN BRADLEY 802T-AP SERIES.
3. CONDUIT PENETRATION - SEE DETAIL 1 SHEET C7.
4. 8" PVC PIPE USED AS STILLING WELL SECURE TO WET WELL WALL WITH STAINLESS STEEL STRAPS AND ½" STAINLESS STEEL ANCHOR BOLTS.
5. TRANSDUCER SUSPENSION - SEE DETAIL 4, SHEET E3.
6. STAINLESS STEEL CABLE HANGER & ELECTRICAL CORD HANGER - SEE DETAIL 5, SHEET E3.
7. PRIMARY POWER CONDUIT AND CONDUCTORS BY PSE. TRENCHING BY CONTRACTOR PER PSE REQUIREMENTS. REMOVE AND RESTORE AC PAVEMENT AND AW PER CIVIL PLANS
8. TRANSFORMER VAULT, PAD AND TRANSFORMER BY PSE. EXCAVATION BY CONTRACTOR.
9. COORDINATE WITH PSE BEFORE PENETRATING INTO VAULT. LOCATION AND CABLE TRAINING PER PSE REQUIREMENTS. CONNECTIONS TO TRANSFORMER BY PSE.
10. CAP CONDUITS 24 AND 25 INSIDE VALVE VAULT. CONDUITS ARE FOR FUTURE FLOW METER.
11. EXISTING UNDERGROUND POWER AND TELEPHONE LINES TO EXISTING LIFT STATION. COORDINATE WITH THE CITY OF KIRKLAND AND PSE AND TELEPHONE COMPANY FOR DISCONNECTION AND ABANDONMENT.
12. EXCAVATION FOR TRANSFORMER VAULT 8'x8'
13. GUARD POSTS IN ACCORDANCE WITH PSE REQUIREMENTS (TYP OF 4).

SERVICE LOAD CALCULATION

DESCRIPTION OF LOAD	NOTE NO.	LOAD HP	MOT FLA	CON. *LOAD	DEM. FACT UTIL	DEM. FACT GEN	*DEM. LOAD UTIL	*DEM. LOAD GEN
Pump No. 1	1	5	7.6	6.1	1.25	1	7.6	6.1
Pump No. 2		5	7.6	6.1	1	1	6.1	6.1
Total 460 V, 3 Phase Connected Load				12.1			13.6	12.1
Misc House Loads (120V)								
a. Lighting	3			1.0	1.25	1.25	1.3	1.3
b. Receptacles				1.0	1.00	1.00	1.0	1.0
c. Control power				1.0	1.00	1.00	1.0	1.0
d. Enclosure heater				1.2	1.25	0.00	1.5	1.2
e. Hot box heat trace				1.0	1.00	1.00	1.0	1.0
Total misc connected house loads 120/240 V				5.2			5.8	5.5
Total Utility Connected Load				17.3				
Demand Load	2						19.4	17.6

SERVICE CALCULATION NOTES:
1. Largest facility motor multiplier per N.E.C.
2. Pumps will start sequentially
3. Contiunous load

Loads are indicated in kVA

LOAD CALCULATION SUMMARY — **0.83136**

	KVA		AMPS
CONNECTED LOAD			
UTILITY SERVICE TOTAL AT 480Y277 V, 3-PHASE	17.3		20.8
DEMAND LOAD	KVA		AMPS
UTILITY SERVICE TOTAL AT 480Y277 V, 3-Phase	19.4		23.3
STANDBY GENERATOR TOTAL AT 480Y277 V, 3-Phase	17.6		21.1
MINIMUM SERVICE DESIGN RATING:			
MAIN BREAKER AND SERVICE SIZE:	KVA		AMPS
Base house load	5.8	At 480 V 1 Ph	12.0
Pump 1 running times 1.25			9.5
Pump 2 running			7.6
Min Service Amp Rating			29.1
Largest Branch Circuit Protective Device			19.0
Chose Breaker			20.0
Main Breaker size			39.6
Minimum Main Breaker size			60.0
Choose Service Amps rating			60.0
Choose Main Breaker rating			60.0
Service conductor size AWG			4

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DATE	NO.	REVISION	BY

ROBERT J. CASNE — STATE OF WASHINGTON — 12218 — REGISTERED PROFESSIONAL ENGINEER — 08/05/25

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FUNDING NO. 34-24-PW

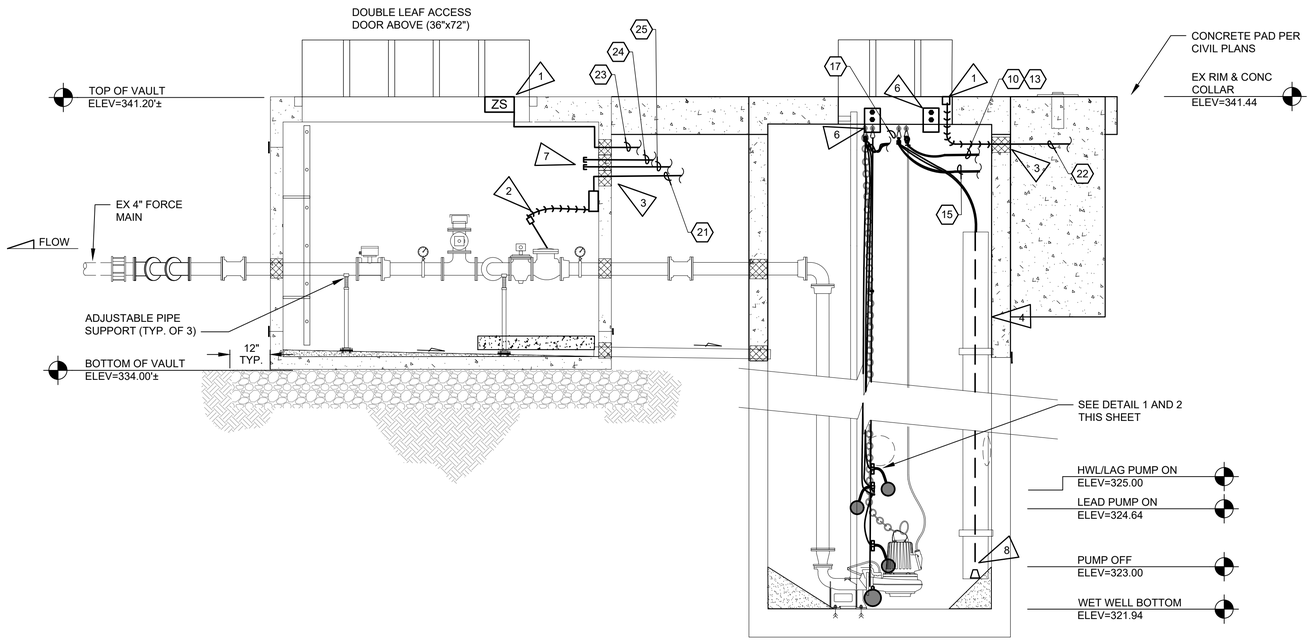
TREND LIFT STATION PROJECT

ELECTRICAL ENLARGED SITE PLAN

REFERENCE SHEET NO. E2

SHEET 12 OF 20 SHEETS

August 12, 2025 - 1:24 PM - SYS - P:\K\KIRX00009038\0400CAD\EC\SHEETS\KIRK0000-9038.DWG - Layout Name: SHT 12 E2

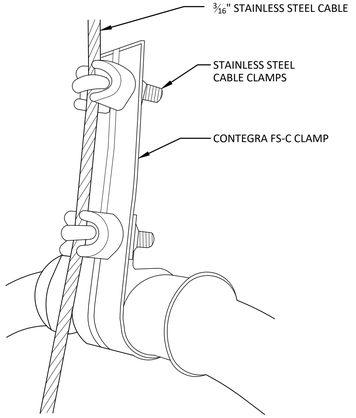


TREND LIFT STATION - ELEVATION

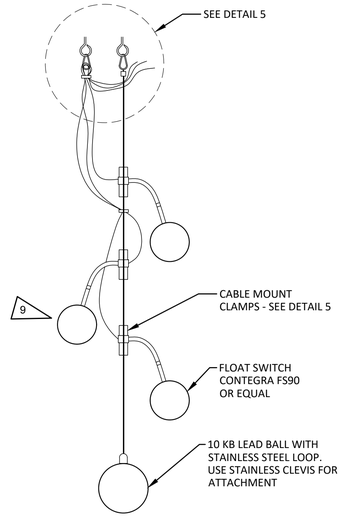
N.T.S.

FLAG NOTES

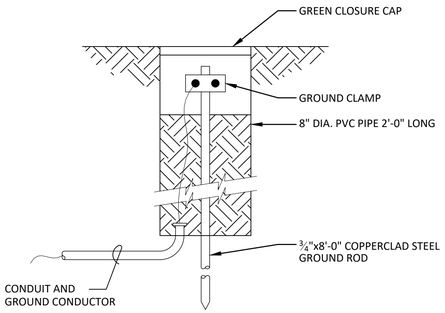
1. INTRUSION ALARM LIMIT SWITCH ALLEN BRADLEY 802T-AP SERIES
2. LIMIT SWITCH FURNISHED ON CHECK VALVE (TYP. OF 2)
3. CONDUIT PENETRATION – SEE DETAIL 1, SHEET C7
4. 8" PVC PIPE USED AS STILLING WELL SECURE TO WET WELL WALL WITH STAINLESS STEEL STRAPS AND ½" STAINLESS STEEL ANCHOR BOLTS
5. TRANSDUCER SUSPENSION – SEE DETAIL 4
6. STAINLESS STEEL CABLE HANGER & ELECTRICAL CORD HANGER – SEE DETAIL 5.
7. CAP CONDUITS 24 AND 25 INSIDE VALVE VAULT. CONDUITS ARE FOR FUTURE FLOW METER.
8. TRANSDUCER SHALL BE KELLER LEVEL RAT STANDARD VERSION 4-20 mA BY KELLER AMERICA, INC.
9. SET FOR DESIRED LEVEL SET POINT. TEST AND REFINE SETTING AS REQUIRED BY THE CITY OF KIRKLAND.



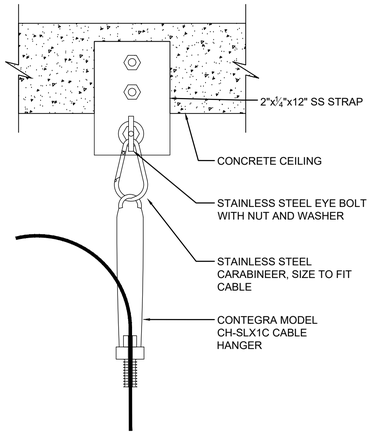
1 - DETAIL - CABLE MOUNTING
SCALE: N.T.S.



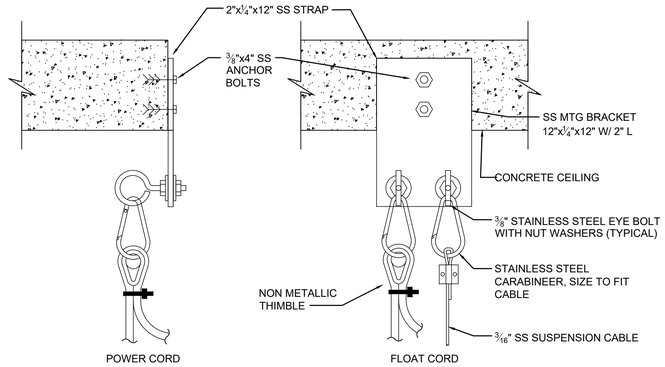
2 - DETAIL - FLOAT SWITCH
SCALE: N.T.S.



3 - DETAIL - GROUND ROD
SCALE: N.T.S.



4 - DETAIL - TRANSDUCER SUSPENSION
SCALE: N.T.S.



STAINLESS STEEL CABLE HANGER & ELECTRICAL CORD HANGER

5 - SCALE: N.T.S.

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DATE	NO.	REVISION	BY

ROBERT J. CASNE — STATE OF WASHINGTON — 12218 — REGISTERED PROFESSIONAL ENGINEER — 08/05/25

UPI NO.: UPI#	FED. AID PROJ. NO.: AID#
SURVEY NO.: SURVEY#	FIELD BOOK(S): BOOKS
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DESIGNED BY: DESIGNER RJC	DRAWN BY: DRAWN DNJ

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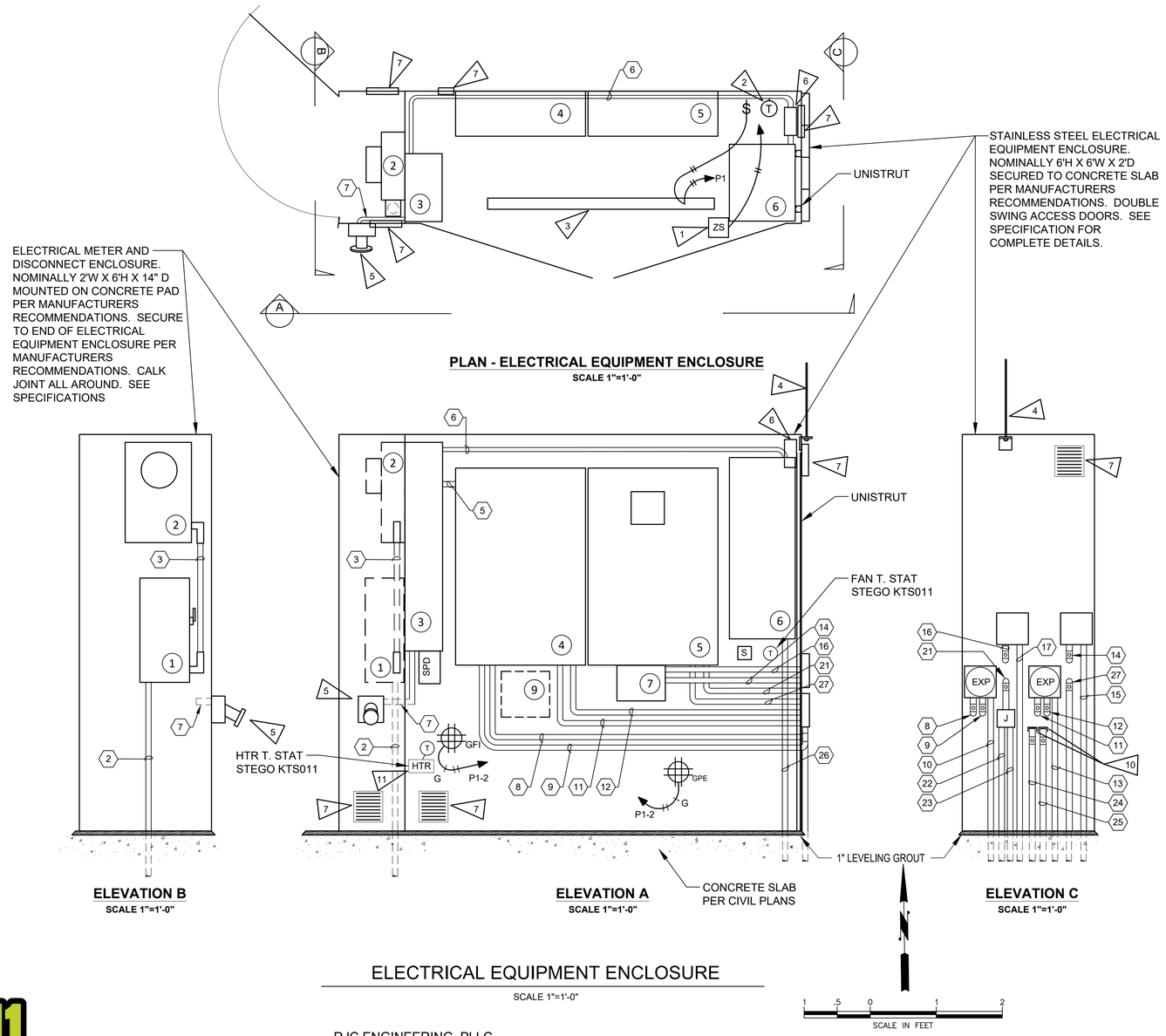
FUNDING NO. 34-24-PW

TREND LIFT STATION PROJECT

ELECTRICAL ELEVATION AND DETAILS

REFERENCE SHEET NO. E3

SHEET 13 OF 20 SHEETS



PLAN - ELECTRICAL EQUIPMENT ENCLOSURE
SCALE 1"=1'-0"

ELEVATION B
SCALE 1"=1'-0"

ELEVATION A
SCALE 1"=1'-0"

ELEVATION C
SCALE 1"=1'-0"

ELECTRICAL EQUIPMENT ENCLOSURE

SCALE 1"=1'-0"

FLAG NOTES

1. INTRUSION ALARM SENSOR
2. THERMOSTAT FOR FAN CONTROL BY ENCLOSURE MANUFACTURER
3. LIGHT BY ENCLOSURE MANUFACTURER
4. CELLULAR DATA ANTENNA
5. GENERATOR RECEPTACLE, CROUSE-HINDS ARKTITE 200A CATALOG NO. AREA204127 S22
6. ENCLOSURE FAN COOLTRON F1238B11T7-97 BY ENCLOSURE MANUFACTURE
7. SCREENED LOUVER VENT
8. REMOVE ALL ELECTRICAL EQUIPMENT TO 1' BELOW GRADE. ABANDON CONDUIT AND WIRE BELOW GRADE IN PLACE. BACKFILL VOIDS.
9. ARRANGE FOR PSE TO DISCONNECT EXISTING SERVICE CONDUCTORS AT TRANSFORMER. CUT CONDUCTORS WHERE THEY ENTER CONDUIT. ABANDON CONDUIT AND WIRE ON POLE IN PLACE.
10. CAP CONDUIT. DO NOT EXTEND INTO ENCLOSURE
11. HEATER - VULCAN STRIP 051208-150A BY ENCLOSURE MANUFACTURER

DEMOLITION

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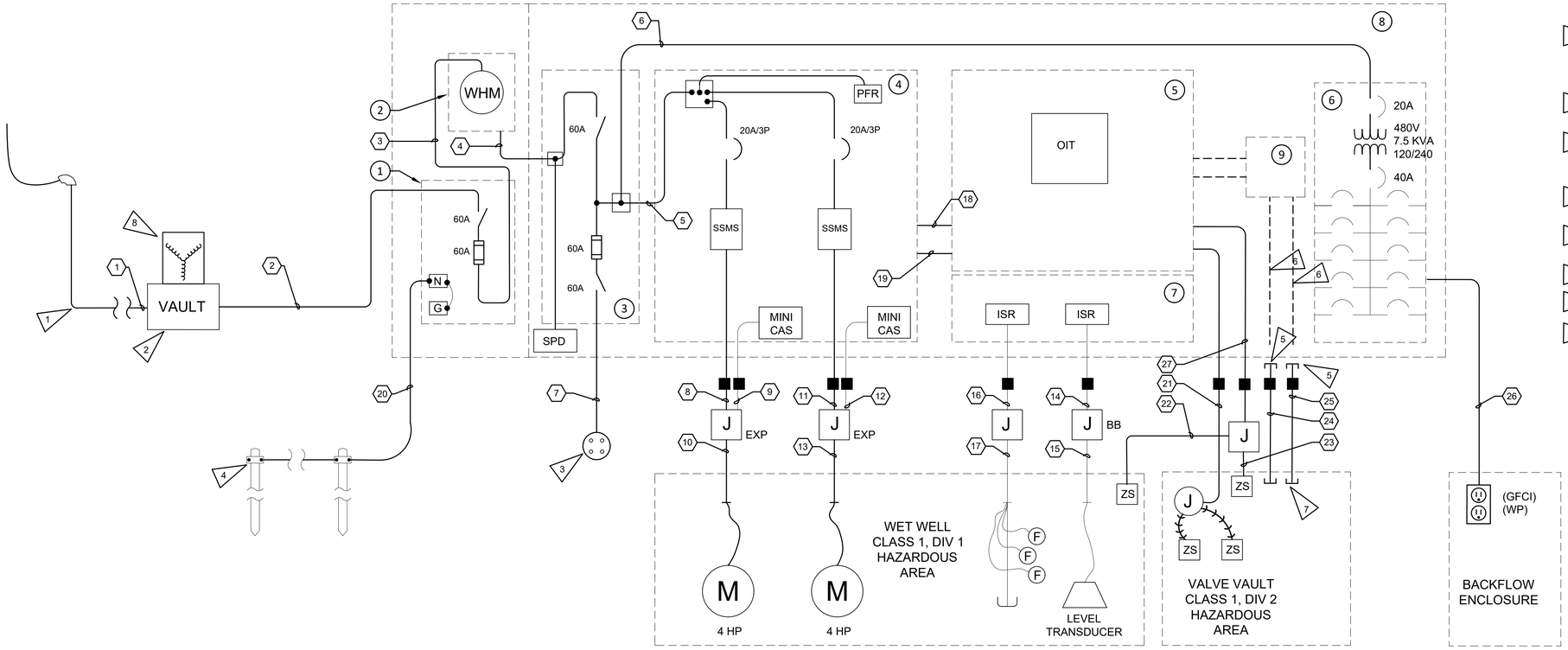
FUNDING NO. 34-24-PW

TREND LIFT STATION PROJECT

ELECTRICAL EQUIPMENT ENCLOSURE

REFERENCE SHEET NO. E4

SHEET 14 OF 20 SHEETS



TREND LIFT STATION - ONE LINE DIAGRAM

N.T.S.

FLAG NOTES

1. PRIMARY CONDUIT AND CONDUCTORS BY PSE. CONTRACTOR TO PROVIDE TRENCHING AND BACKFILL PER PSE REQUIREMENTS. COORDINATE WITH PSE.
2. EXCAVATION AND BACKFILL FOR PSE VAULT AND TRANSFORMER. COORDINATE WITH PSE.
3. PORTABLE GENERATOR CONNECTION RECEPTACLE CROUSE HINDS ARKTITE 200A CAT NO AREA204127 S22.
4. GROUND ROD COPPERCLAD STEEL ¾"x8' LONG SEE DETAIL 3, SHEET E3.
5. CAP CONDUIT. DO NOT FILL SEAL FITTING. DO NOT EXTEND CONDUIT INTO ENCLOSURE.
6. FUTURE CONDUITS.
7. CAP CONDUITS INSIDE VALVE VAULT.
8. 480Y/277 V, 3 PHASE, 45kVA TRANSFORMER BY PSE AVAILABLE FAULT CURRENT 3300A. POINT OF SERVICE IS THE SECONDARY TERMINALS OF THE TRANSFORMER.

INSULATION TO BE THWN OR XHHN

CONDUIT AND CONDUCTOR SCHEDULE

NO	DESCRIPTION
1	PRIMARY BY UTILITY
2	2"C, 4#4
3	1 ¼"C, 4/4,1#8G
4	1¼"C, 4#4, 1#8G
5	1¼"C, 4#4, 1#8G
6	½"C, 2#12, 1#12G
7	1¼"C, 4#4, 1#8G
8	¾"C, 3#12, 1#12G
9	¾"C, 4#14
10	1¼"C, CORDS FURNISHED W/ PUMPS
11	¾"C, 3#12, 1#12G
12	¾"C, 4#14
13	1¼"C, CORDS FURN W/ PUMPS
14	1"C, 2 PR, #18 TWSD SHLD
15	1¼"C, CORDS FURN W/ TRANSDUCER
16	¾"C, 6#14
17	1½"C, CORDS FURN W/ FLOATS
18	1¼"C, ETHERNET CABLES
19	1¼"C, 24#14
20	½" PVC, 1#8 BARE CU
21	½"C, 4#14
22	½"C, 2#14
23	½"C, 2#14
24	½"C, PULL ROPE - FUTURE PWR
25	1"C, PULL ROPE - FUTURE SIGNAL
26	½"C, 2#12, 1#12G
27	½"C, 4#14

PANEL DESIGNATION: P1	VOLTAGE: 120/240 V, SINGLE PHASE	MOUNTING: SURFACE
LOCATION: ELEC. EQUIP. ENCLOSURE	BUS: 60 AMP	AIC:
FEEDER: SEE DRAWINGS	MAIN: 40 AMP BREAKER	ENCLOSURE: NEMA 1

CKT NO.	CIRCUIT DESCRIPTION	BREAKER POLE		LOAD VA	PH	PH	LOAD VA	BREAKER POLE		CIRCUIT DESCRIPTION	CKT NO.
1	ENCLOSURE LIGHTS AND AREA LIGHT	1	20	1000	A		1000	1	20	RECEPTACLES (GFCI)	2
3	CONTROL PANEL POWER	1	20	1000		B	1000	1	20	ELEC. EQUIP. ENCLOSURE HEATER	4
5	BACKFLOW ENCLOSURE HEAT TRACE (GFCI)	1	20	1000	A			1	20	SPARE	6
7	SPARE	1	20					1	20	SPARE	8

LOAD SUMMARY: PHASE A = 3.0 kVA, 25 AMPS. PHASE B = 2.0 kVA, 16.6 AMPS.

LOAD CENTER P1 SCHEDULE

EQUIPMENT SCHEDULE

NO	DESCRIPTION
1	MAIN SERVICE ENTRANCE DISCONNECT
2	METER SOCKET PER PSE REQUIREMENTS
3	MANUAL TRANSFER SWITCH, FUSED, 3 POLE, 480 V, NEMA 1,
4	PUMP CONTROL PANEL, NEMA1
5	CONTROL PANEL, NEMA1
6	MINI POWER ZONE BREAKERS, NEMA 1 - SEE SCHEDULE
7	INTRINSICALLY SAFE RELAY ENCLOSURE
8	CUSTOM ELECTRICAL EQUIPMENT ENCLOSURE
9	FUTURE FLOWMETER

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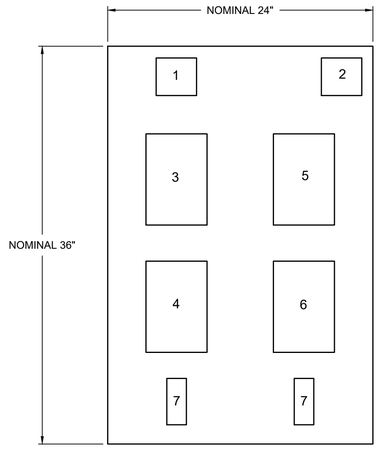
TREND LIFT STATION PROJECT

ELECTRICAL ONE LINE DIAGRAM AND SCHEDULES

REFERENCE SHEET NO. E5

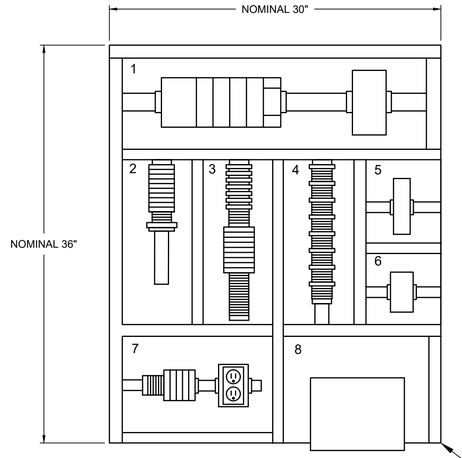
SHEET 15 OF 20 SHEETS



PUMP CONTROL PANEL COMPONENTS	
NO	DESCRIPTION
1	DISTRIBUTION BLOCK
2	PHASE MONITOR/LOSS RELAY
3	PUMP #1 CIRCUIT BREAKER
4	SOLID STATE MOTOR STARTER
5	PUMP #2 CIRCUIT BREAKER
6	SOLID STATE MOTOR STARTER
7	MINICAS RELAY

PUMP CONTROL PANEL BACK PAN

NTS

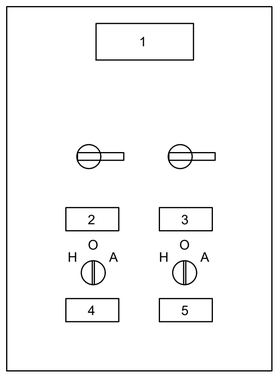


CONTROL PANEL COMPONENT ARRANGEMENT	
NO	DESCRIPTION
1	PLC AND ETHERNET SWITCHES
2	FUSE TERMINAL BLOCK AND FUSES
3	RELAYS
4	FUSE TERMINAL BLOCK AND FUSES
5	CELL MODEM
6	UNINTERRUPTIBLE POWER SUPPLY
7	CIRCUIT BREAKERS, SURGE ARRESTOR, RECEPTACLE
8	BATTERY

SHOWN FOR REFERENCE ONLY. ACTUAL LAYOUT SHALL BE PER TSI LATEST VERSION OF SCADA MASTER PLAN

CONTROL PANEL BACK PAN

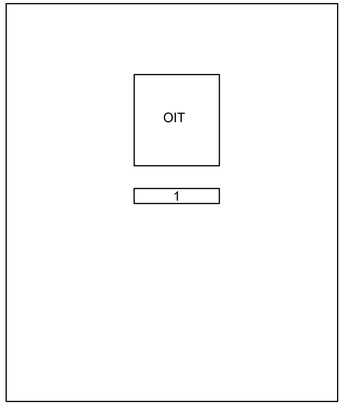
NTS



PUMP CONTROL PANEL	
NO	NAMEPLATE SCHEDULE
1	TREND LIFT STATION PUMP CONTROL PANEL
2	PUMP #1 DISCONNECT
3	PUMP #2 DISCONNECT
4	PUMP #1
5	PUMP #2

PUMP CONTROL PANEL FACE

NTS



NO	NAMEPLATE SCHEDULE
1	TREND LIFT STATION CONTROL PANEL

CONTROL PANEL FACE

NTS

DRAWINGS ARE DIAGRAMMATIC ONLY TO CONVEY INTENT. ACTUAL DIMENSIONS, COMPONENTS, AND COMPONENT LAYOUT TO BE DETERMINED BY SYSTEM INTEGRATOR

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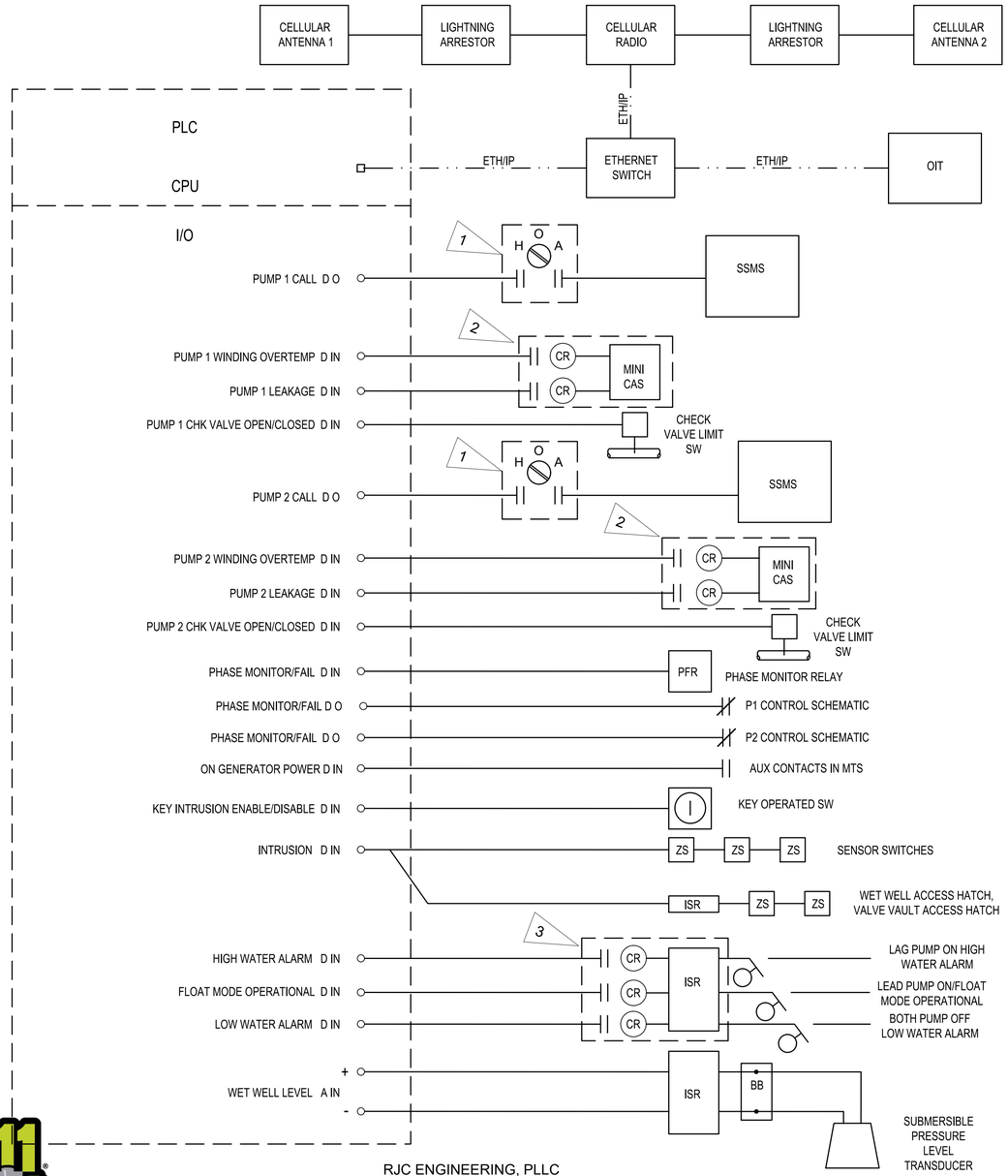
FUNDING NO. 34-24-PW

TREND LIFT STATION PROJECT

ELECTRICAL PUMP CONTROL PANELS AND CONTROL PANELS LAYOUT

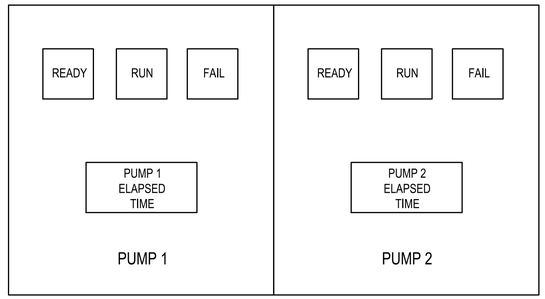
REFERENCE SHEET NO. E6

SHEET 16 OF 20 SHEETS



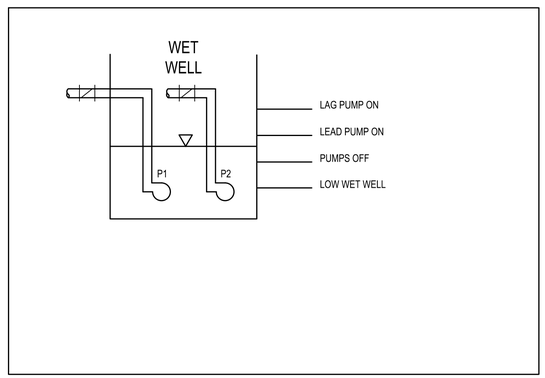
FLAG NOTES

1. SEE TYPICAL PUMP CONTROL SCHEMATIC
2. SEE WINDING TEMP/LEAK DETECTION SCHEMATIC
3. SEE FLOAT CONTROL SCHEMATIC



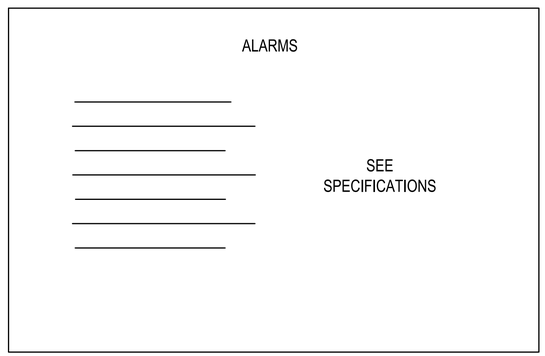
OIT SCREEN 1

NTS



OIT SCREEN 2

NTS



OIT SCREEN 3

NTS

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FUNDING NO. 34-24-PW

TREND LIFT STATION PROJECT

ELECTRICAL PLC CONNECTIONS

REFERENCE SHEET NO. E7

SHEET 17 OF 20 SHEETS

August 12, 2025 - 1:24 PM - SYS - P:\KIRK\KIRX00009038\0400CAD\ECS\SHEETS\KIRK0000-9038.DWG - Layout Name: SHT 17 E7

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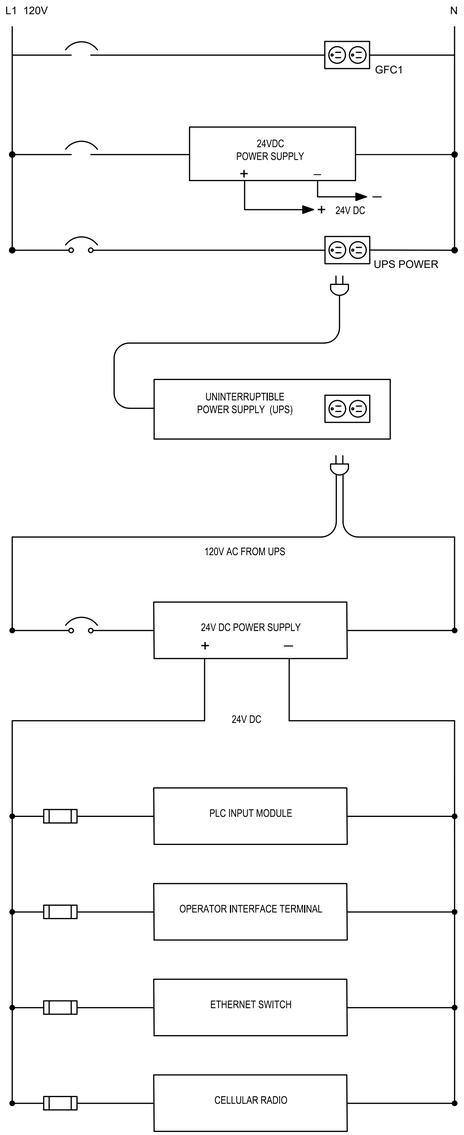
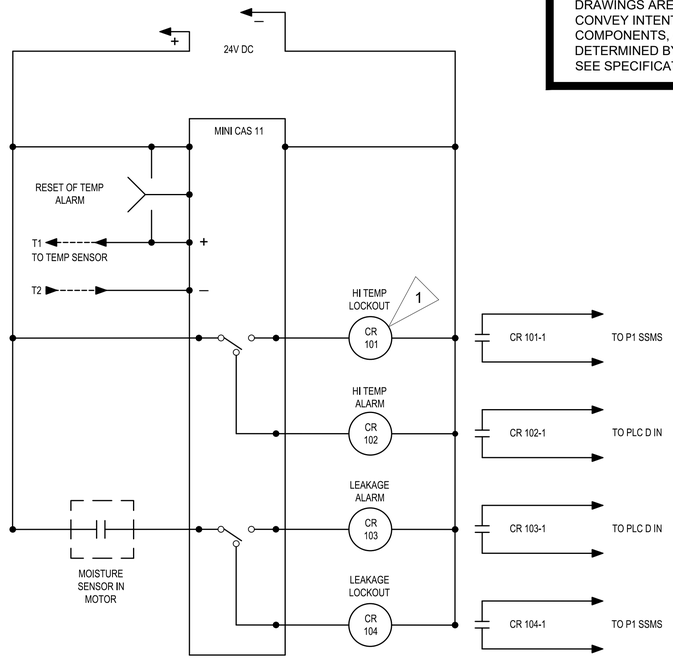


TYPICAL WIRING SCHEMATIC

NTS



WINDING TEMP/LEAK DETECTION SCHEMATIC

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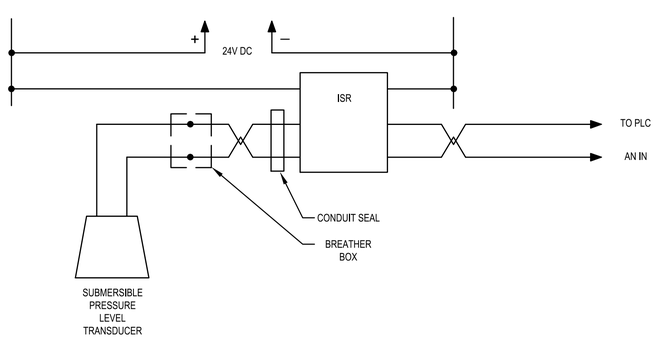

LEVEL SENSOR SCHEMATIC

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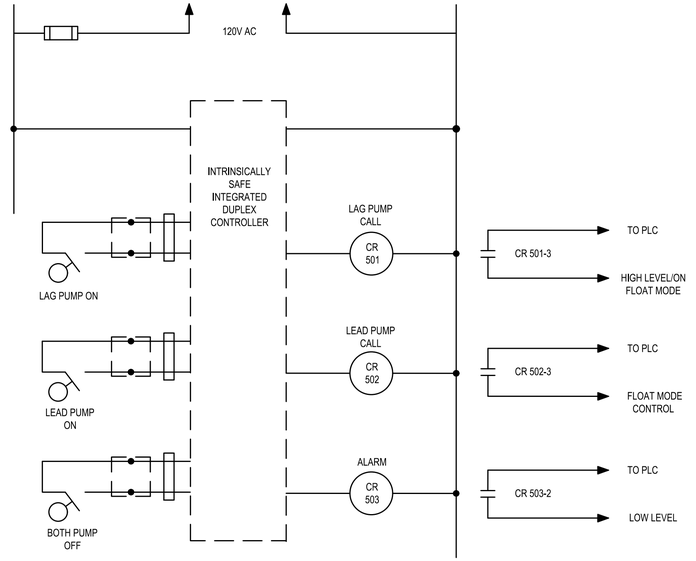
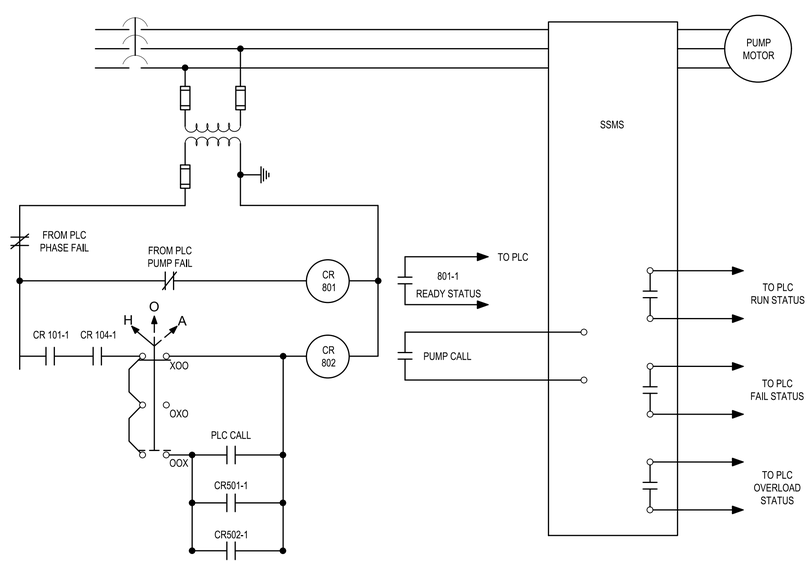


FLOAT CONTROL SCHEMATIC

NTS



TYPICAL PUMP CONTROL SCHEMATIC

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TREND LIFT STATION PROJECT

ELECTRICAL CONTROL PANELS SCHEMATIC WIRING DIAGRAM

REFERENCE SHEET NO. E8

SHEET 18 OF 20 SHEETS

EROSION AND SEDIMENT CONTROL PLAN NOTES

1. THE APPROVED CONSTRUCTION SEQUENCE SHALL BE AS FOLLOWS:
   a. CONDUCT PRE-CONSTRUCTION MEETING.
   b. FLAG OR FENCE CLEARING LIMITS.
   c. POST SIGN WITH NAME AND PHONE NUMBER OF CSWPPP SUPERVISOR.
   d. INSTALL CATCH BASIN PROTECTION IF REQUIRED.
   e. GRADE AND INSTALL CONSTRUCTION ENTRANCE(S).
   f. INSTALL PERIMETER PROTECTION (SILT FENCE, BRUSH BARRIER, ETC.).
   g. CONSTRUCT SEDIMENT PONDS AND TRAPS.
   h. GRADE AND STABILIZE CONSTRUCTION ROADS.
   i. CONSTRUCT SURFACE WATER CONTROLS ~~(INTERCEPTOR DIKES, PIPE SLOPE DRAINS, ETC.)~~ SIMULTANEOUSLY WITH CLEARING AND GRADING FOR PROJECT DEVELOPMENT.
   j. MAINTAIN EROSION CONTROL MEASURE IN ACCORDANCE WITH CITY OF KIRKLAND STANDARDS AND MANUFACTURER'S RECOMMENDATIONS.
   k. RELOCATE EROSION CONTROL MEASURES OR INSTALL NEW MEASURES SO THAT AS SITE CONDITIONS CHANGE, THE EROSION AND SEDIMENT CONTROL IS ALWAYS IN ACCORDANCE WITH THE CITY TESC MINIMUM REQUIREMENTS.
   l. COVER ALL AREAS WITHIN THE SPECIFIED TIME FRAME WITH STRAW, WOOD FIBER MULCH, COMPOST, PLASTIC SHEETING, CRUSHED ROCK OR EQUIVALENT.
   m. STABILIZE ALL AREAS THAT REACH FINAL GRADE WITHIN 7 DAYS.
   n. SEED OR SOD ANY AREAS TO REMAIN UNWORKED FOR MORE THAN 30 DAYS.
   o. UPON COMPLETION OF THE PROJECT, ALL DISTURBED AREAS MUST BE STABILIZED AND BEST MANAGEMENT PRACTICES REMOVED IF APPROPRIATE.
2. CONTRACTOR IS RESPONSIBLE FOR KEEPING STREETS CLEAN AND FREE OF CONTAMINATION AT ALL TIMES AND FOR PREVENTING AN ILLICIT DISCHARGE (KMC 15.52) INTO THE MUNICIPAL STORM DRAIN SYSTEM. IF ~~YOUR CONSTRUCTION PROJECT CAUSES AN ILLICIT DISCHARGE TO THE MUNICIPAL STORM DRAIN SYSTEM,~~ IN THE EVENT OF AN ILLICIT DISCHARGE TO THE MUNICIPAL STORM SYSTEM CAUSE BY THIS PROJECT THE CITY OF KIRKLAND STORM MAINTENANCE DIVISION WILL BE CALLED TO CLEAN THE PUBLIC STORM SYSTEM, AND OTHER AFFECTED PUBLIC INFRASTRUCTURE. THE CONTRACTOR(S), PROPERTY OWNER, AND ANY OTHER RESPONSIBLE PARTY MAY BE CHARGED ALL COSTS ASSOCIATED WITH THE CLEAN-UP AND MAY ALSO BE ASSESSED MONETARY PENALTIES (KMC 1.12.200). THE MINIMUM PENALTY IS $500. A FINE FOR A REPEAT VIOLATION SHALL BE MULTIPLIED BY THE NUMBER OF VIOLATIONS. A FINE MAY BE REDUCED OR WAIVED FOR PERSONS WHO IMMEDIATELY SELF-REPORT VIOLATIONS TO THE CITY AT 425-587-3900. A FINAL INSPECTION OF ~~YOUR~~ THE PROJECT WILL NOT BE GRANTED UNTIL ALL COSTS ASSOCIATED WITH THE CLEAN-UP, AND PENALTIES, ARE PAID TO THE CITY OF KIRKLAND.
3. CONSTRUCTION DEWATERING DISCHARGE SHALL ALWAYS MEET WATER QUALITY GUIDELINES LISTED IN COK POLICY E-1. SPECIFICALLY, DISCHARGES TO THE PUBLIC STORMWATER DRAINAGE SYSTEM MUST BE BELOW 25 NTU, AND NOT CONSIDERED AN ILLICIT DISCHARGE (PER KMC 15.52.090). TEMPORARY DISCHARGES TO SANITARY SEWER REQUIRE PRIOR AUTHORIZATION AND PERMIT FROM KING COUNTY INDUSTRIAL WASTE PROGRAM (206-263-3000) AND NOTIFICATION TO THE PUBLIC WORKS CONSTRUCTION INSPECTOR.
4. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH CITY OF KIRKLAND STANDARDS AND SPECIFICATIONS.
5. THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN SHALL BE ~~SET BY SURVEY AND~~ CLEARLY FLAGGED IN THE FIELD BY A CLEARING CONTROL FENCE PRIOR TO CONSTRUCTION. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE OR REMOVAL OF ANY GROUND COVER BEYOND THE FLAGGED CLEARING LIMITS SHALL BE PERMITTED. THE FLAGGING SHALL BE MAINTAINED BY THE PERMITTEE/CONTRACTOR FOR THE DURATION OF CONSTRUCTION.
6. 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.).
7. THE IMPLEMENTATION OF THIS ESC PLAN AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE PERMITTEE/CONTRACTOR UNTIL ALL CONSTRUCTION IS APPROVED.
8. A COPY OF THE APPROVED ESC PLANS MUST BE ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
9. THE ESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED PRIOR TO OR IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES IN SUCH A MANNER AS TO ENSURE THAT SEDIMENT-LADEN WATER DOES NOT ENTER THE DRAINAGE SYSTEM OR VIOLATE APPLICABLE WATER STANDARDS. WHEREVER POSSIBLE, MAINTAIN NATURAL VEGETATION FOR SILT CONTROL. THE ESC FACILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DETAILS ON THE APPROVED PLANS. LOCATIONS MAY BE MOVED TO SUIT FIELD CONDITIONS, SUBJECT TO APPROVAL BY THE ENGINEER AND THE CITY OF KIRKLAND INSPECTOR.
10. THE ESC FACILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DETAILS ON THE APPROVED PLANS. LOCATIONS MAY BE MOVED TO SUIT FIELD CONDITIONS, SUBJECT TO APPROVAL BY THE ENGINEER AND CITY OF KIRKLAND INSPECTOR.
11. THE ESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED (E.G., ADDITIONAL SUMPS, RELOCATION OF DITCHES AND SILT FENCES, ETC.) AS NEEDED FOR UNEXPECTED STORM EVENTS. ADDITIONALLY, MORE ESC FACILITIES MAY BE REQUIRED TO ENSURE COMPLETE SILTATION CONTROL. THEREFORE, DURING THE COURSE OF CONSTRUCTION IT SHALL BE THE OBLIGATION AND RESPONSIBILITY OF THE CONTRACTOR TO ADDRESS ANY NEW CONDITIONS THAT MAY BE CREATED BY HIS ACTIVITIES AND TO PROVIDE ADDITIONAL FACILITIES OVER AND ABOVE THE MINIMUM REQUIREMENTS AS MAY BE NEEDED.
12. THE ESC FACILITIES SHALL BE INSPECTED BY THE PERMITTEE/CONTRACTOR DAILY DURING NON-RAINFALL PERIODS, EVERY HOUR (DAYLIGHT) DURING A RAINFALL EVENT, AND AT THE END OF EVERY RAINFALL, AND MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING. IN ADDITION, TEMPORARY SILTATION PONDS AND ALL TEMPORARY SILTATION CONTROLS SHALL BE MAINTAINED IN A SATISFACTORY CONDITION UNTIL SUCH TIME THAT CLEARING AND/OR CONSTRUCTION IS COMPLETED, PERMANENT DRAINAGE FACILITIES ARE OPERATIONAL, AND THE POTENTIAL FOR EROSION HAS PASSED. WRITTEN RECORDS SHALL BE KEPT DOCUMENTING THE REVIEWS OF THE ESC FACILITIES.
13. THE ESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH OR WITHIN 48 HOURS FOLLOWING A STORM EVENT.
14. ~~STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT.~~ ADDITIONAL MEASURES, SUCH AS WASH PADS, MAY BE REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.
15. ALL DENUDED SOILS MUST BE STABILIZED WITH AN APPROVED TESC METHOD (E.G. SEEDING, MULCHING, PLASTIC COVERING, CRUSHED ROCK) WITHIN THE FOLLOWING TIMELINES:
   - MAY 1 TO SEPTEMBER 30 – SOILS MUST BE STABILIZED WITHIN 7 DAYS OF GRADING.
   - OCTOBER 1 TO APRIL 30 – SOILS MUST BE STABILIZED WITHIN 2 DAYS OF GRADING.
   - STABILIZE SOILS AT THE END OF THE WORKDAY PRIOR TO A WEEKEND, HOLIDAY, OR PREDICTED RAIN EVENT.
16. ~~WHERE SEEDING FOR TEMPORARY EROSION CONTROL IS REQUIRED, FAST GERMINATING GRASSES SHALL BE APPLIED AT AN APPROPRIATE RATE (EXAMPLE: ANNUAL OR PERENNIAL RYE APPLIED AT APPROXIMATELY 80 POUNDS PER ACRE).~~
17. WHERE STRAW MULCH IS REQUIRED FOR TEMPORARY EROSION CONTROL, IT SHALL BE APPLIED AT A MINIMUM THICKNESS OF 2".
18. ~~ALL LOTS ADJOINING OR HAVING ANY NATIVE GROWTH PROTECTION EASEMENTS (NGPE) SHALL HAVE A 6' HIGH TEMPORARY CONSTRUCTION FENCE (CHAIN LINK WITH PIER BLOCKS) SEPARATING THE LOT (OR BUILDABLE PORTIONS OF THE LOT) FROM THE AREA RESTRICTED BY THE NGPE AND SHALL BE INSTALLED PRIOR TO ANY GRADING OR CLEARING AND REMAIN IN PLACE UNTIL THE PLANNING DEPARTMENT AUTHORIZES REMOVAL.~~
19. CLEARING LIMITS SHALL BE DELINEATED WITH A CLEARING CONTROL FENCE. THE CLEARING CONTROL FENCE SHALL CONSIST OF A 6-FT. HIGH CHAIN LINK FENCE ADJACENT THE DRIP LINE OF TREES TO BE SAVED, WETLAND OR STREAM BUFFERS, AND SENSITIVE SLOPES. CLEARING CONTROL FENCES ALONG WETLAND OR STREAM BUFFERS OR UPSLOPE OF SENSITIVE SLOPES SHALL BE ACCOMPANIED BY AN EROSION CONTROL FENCE. IF APPROVED BY THE CITY, A FOUR-FOOT HIGH ORANGE MESH CLEARING CONTROL FENCE MAY BE USED TO DELINEATE CLEARING LIMITS IN ALL OTHER AREAS.
20. OFF-SITE STREETS MUST BE KEPT CLEAN AT ALL TIMES. IF DIRT IS DEPOSITED ON THE PUBLIC STREET SYSTEM, THE STREET SHALL BE IMMEDIATELY CLEANED WITH POWER SWEEPER OR OTHER EQUIPMENT. ALL VEHICLES SHALL LEAVE THE SITE BY WAY OF THE CONSTRUCTION ENTRANCE AND SHALL BE CLEANED OF ALL DIRT THAT WOULD BE DEPOSITED ON THE PUBLIC STREETS.
21. ~~ROCK FOR EROSION PROTECTION OF ROADWAY DITCHES, WHERE REQUIRED, MUST BE OF SOUND QUARRY ROCK, PLACED TO A DEPTH OF 1' AND MUST MEET THE FOLLOWING SPECIFICATIONS: 4"-8" ROCK/40%-70% PASSING; 2"-4" ROCK/30%-40% PASSING; AND 1"-2" ROCK/10%-20% PASSING. RECYCLED CONCRETE SHALL NOT BE USED FOR CONSTRUCTION ENTRANCE OR TEMPORARY STABILIZATION ELSEWHERE ON THE SITE.~~
22. IF ANY PART(S) OF THE CLEARING LIMIT BOUNDARY OR TEMPORARY EROSION/SEDIMENTATION CONTROL PLAN IS/ARE DAMAGED, IT SHALL BE REPAIRED IMMEDIATELY.
23. ALL PROPERTIES AD~~JACENT TO THE PROJECT SITE SHALL~~ BE PROTECTED FROM SEDIMENT DEPOSITION AND RUNOFF.
24. AT NO TIME SHALL MORE THAN 1' OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A CATCH BASIN. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED IMMEDIATELY FOLLOWING REMOVAL OF EROSION CONTROL BMPS. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT-LADEN WATER INTO THE DOWNSTREAM SYSTEM.
25. ~~ANY PERMANENT RETENTION/DETENTION FACILITY USED AS A TEMPORARY SETTLING BASIN SHALL BE MODIFIED WITH THE NECESSARY EROSION CONTROL MEASURES AND SHALL PROVIDE ADEQUATE STORAGE CAPACITY. IF THE PERMANENT FACILITY IS TO FUNCTION ULTIMATELY AS AN INFILTRATION OR DISPERSION SYSTEM, THE FACILITY SHALL NOT BE USED AS A TEMPORARY SETTLING BASIN. NO UNDERGROUND DETENTION TANK, DETENTION VAULT, OR SYSTEM WHICH BACKS UNDER OR INTO A POND SHALL BE USED AS A TEMPORARY SETTLING BASIN.~~
26. ~~ALL EROSION/SEDIMENTATION CONTROL PONDS WITH A DEAD STORAGE DEPTH EXCEEDING 6" MUST HAVE A PERIMETER FENCE WITH A MINIMUM HEIGHT OF 3'.~~
27. ~~THE WASHED GRAVEL BACKFILL ADJACENT TO THE FILTER FABRIC FENCE SHALL BE REPLACED AND THE FILTER FABRIC CLEANED IF IT IS NONFUNCTIONAL BY EXCESSIVE SILT ACCUMULATION AS DETERMINED BY THE CITY OF KIRKLAND. ALSO, ALL INTERCEPTOR SWALES SHALL BE CLEANED IF SILT ACCUMULATION EXCEEDS ONE-QUARTER DEPTH.~~
28. ~~PRIOR TO THE OCTOBER 1 OF EACH YEAR (THE BEGINNING OF THE WET SEASON), ALL DISTURBED AREAS SHALL BE REVIEWED TO IDENTIFY WHICH ONES CAN BE SEEDED IN PREPARATION FOR THE WINTER RAINS. THE IDENTIFIED DISTURBED AREA SHALL BE SEEDED WITHIN ONE WEEK AFTER OCTOBER 1. A SITE PLAN DEPICTING THE AREAS TO BE SEEDED AND THE AREAS TO REMAIN UNCOVERED SHALL BE SUBMITTED TO THE PUBLIC WORKS CONSTRUCTION INSPECTOR. THE INSPECTOR CAN REQUIRE SEEDING OF ADDITIONAL AREAS IN ORDER TO PROTECT SURFACE WATERS, ADJACENT PROPERTIES, OR DRAINAGE FACILITIES.~~
29. ~~ANY AREA TO BE USED FOR INFILTRATION OR PERVIOUS PAVEMENT (INCLUDING A 5-FOOT BUFFER) MUST BE SURROUNDED BY SILT FENCE PRIOR TO CONSTRUCTION AND UNTIL FINAL STABILIZATION OF THE SITE TO PREVENT SOIL COMPACTION AND SILTATION BY CONSTRUCTION ACTIVITIES.~~
30. ~~IF THE TEMPORARY CONSTRUCTION ENTRANCE OR ANY OTHER AREA WITH HEAVY VEHICLE LOADING IS LOCATED IN THE SAME AREA TO BE USED FOR INFILTRATION OR PERVIOUS PAVEMENT, 6" OF SEDIMENT BELOW THE GRAVEL SHALL BE REMOVED PRIOR TO INSTALLATION OF THE INFILTRATION FACILITY OR PERVIOUS PAVEMENT (TO REMOVE FINES ACCUMULATED DURING CONSTRUCTION).~~
31. ANY CATCH BASINS COLLECTING RUNOFF FROM THE SITE, WHETHER THEY ARE ON OR OFF THE SITE, SHALL HAVE ADEQUATE PROTECTION FROM SEDIMENT. CATCH BASINS DIRECTLY DOWNSTREAM OF THE CONSTRUCTION ENTRANCE OR ANY OTHER CATCH BASIN AS DETERMINED BY THE CITY INSPECTOR SHALL BE PROTECTED WITH A "STORM DRAIN PROTECTION INSERT" OR EQUIVALENT.
32. IF A SEDIMENT POND IS NOT PROPOSED, A BAKER TANK OR OTHER TEMPORARY GROUND AND/OR SURFACE WATER STORAGE TANK MAY BE REQUIRED DURING CONSTRUCTION, DEPENDING ON WEATHER CONDITIONS.
33. DO NOT FLUSH CONCRETE BY-PRODUCTS OR TRUCKS NEAR OR INTO THE STORM DRAINAGE SYSTEM. IF EXPOSED AGGREGATE IS FLUSHED INTO THE STORM SYSTEM, IT COULD MEAN RE-CLEANING THE ENTIRE DOWNSTREAM STORM SYSTEM, OR POSSIBLY RE-LAYING THE STORM LINE.
34. CONSTRUCTION DEWATERING DISCHARGES SHALL ALWAYS MEET WATER QUALITY GUIDELINES LISTED IN COK POLICY E-1. SPECIFICALLY, DISCHARGES TO THE PUBLIC STORMWATER DRAINAGE SYSTEM MUST BE BELOW 25NTU, AND NOT CONSIDERED A PROHIBITED DISCHARGE (PER KMC 15.52.090). TEMPORARY DISCHARGES TO SANITARY SEWER REQUIRE PRIOR AUTHORIZATION AND PERMIT FROM KING COUNTY INDUSTRIAL WASTE PROGRAM (206-263-3000) AND NOTIFICATION TO THE PUBLIC WORKS CONSTRUCTION INSPECTOR.
35. RECYCLED CONCRETE SHALL NOT BE STOCKPILED ON SITE, UNLESS FULLY COVERED WITH NO POTENTIAL FOR RELEASE OF RUNOFF.

STORMWATER POLLUTION PREVENTION AND SPILL (SWPPS) SITE PLAN REQUIREMENTS

THE SWPPS SITE PLAN IS TO BE CREATED BY THE CONTRACTOR. IT SHALL INCLUDE THE LOCATION AND DESCRIPTION OF BMPS REQUIRED TO PREVENT POLLUTION AND CONTROL SPILLS FROM CONSTRUCTION ACTIVITIES INCLUDING FINAL CLEANUP, AND FROM CHEMICALS AND OTHER MATERIALS USED AND STORED ON THE CONSTRUCTION SITE. THE SITE PLAN DRAWING ELEMENT OF THE SWPPS PLAN SHALL INCLUDE ALL OF THE INFORMATION REQUIRED FOR THE BASE MAP, INFORMATION REQUIRED BY WSDOT STANDARD SPECIFICATIONS SECTION 1-07.15(1), THE MINIMUM ELEMENTS IN THE SPECIAL PROVISIONS, AS WELL AS:

1. EXISTING AND PROPOSED ROADS, DRIVEWAYS, PARKING AREAS, BUILDINGS, DRAINAGE FACILITIES, UTILITY CORRIDORS NOT ASSOCIATED WITH ROADWAYS, RELEVANT CRITICAL AREAS AND ASSOCIATED BUFFERS, AND PROPOSED TOPOGRAPHY.
2. IDENTIFY LOCATIONS WHERE LIQUIDS WILL BE STORED AND DELINEATE SECONDARY CONTAINMENT AREAS THAT WILL BE PROVIDED.
3. IDENTIFY LOCATIONS WHERE CONSTRUCTION MATERIALS AND WASTES WILL BE GENERATED AND STOCKPILED (STOCKPILING OF MATERIAL IN RIGHT OF WAY IS SUBJECT TO ENGINEER APPROVAL PER GENERAL NOTE 8 SHEET C1).
4. IDENTIFY LOCATION OF FUELING FOR VEHICLES AND EQUIPMENT IF STATIONARY TANKS WILL BE USED.
5. DELINEATE CONTAINMENT AREAS FOR FUEL SPILLS.
6. SHOW LOCATIONS OF LIGHTING AND SIGNAGE FOR FUELING DURING EVENING HOURS.
7. DELINEATE MAINTENANCE AND REPAIR AREAS AND CLEARLY NOTE THAT DRIP PANS OR PLASTIC SHALL BE USED BENEATH VEHICLES. ALSO CLEARLY NOTE THAT SIGNS MUST BE POSTED THAT STATE NO VEHICLE WASHING MAY OCCUR IN THE AREA.
8. DELINEATE TRUCK WASHOUT AREAS AND IDENTIFY THE LOCATION OF SLURRY/WASHWATER SUMPS AND RINSING AREA FOR TOOLS.
9. DELINEATE WHERE CHEMICALS WILL BE APPLIED AND IDENTIFY WHERE THEY WILL BE STORED.
10. IDENTIFY WHERE THE SPILL RESPONSE MATERIALS WILL BE STORED.

811 Know what's below. Call 811 before you dig.

DATUM

DATUM NAVD 88

DATE	NO.	REVISION	BY

RODNEY C. LANGER — STATE OF WASHINGTON — 30046 — REGISTERED PROFESSIONAL ENGINEER — 03/06/20

UPI NO.: UPI#	FED. AID PROJ. NO.: AID#
SURVEY NO.: SURVEY#	FIELD BOOK(S): BOOKS
HORZ. DATUM: NAD83-91	VERT. DATUM: NAVD88
DESIGNED BY: DESIGNER NA	DRAWN BY: DRAWN DNJ

DAVID EVANS AND ASSOCIATES INC.
14432 SE Eastgate Way
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CITY OF KIRKLAND
DEPARTMENT OF PUBLIC WORKS
123 FIFTH AVENUE KIRKLAND, WA 98033
(425) 587-3800 www.kirklandwa.gov

FUNDING NO. 34-24-PW

TREND LIFT STATION PROJECT

TESC AND POLLUTION PREVENTION NOTES

REFERENCE SHEET NO. T1

SHEET 19 OF 20 SHEETS

August 5, 2025 - 1:46 PM - SYS - P:\KK\KIRX00009038\0400CAD\EC\SHEETS\KIRK0000-9038.DWG - Layout Name: SHT 19 T1

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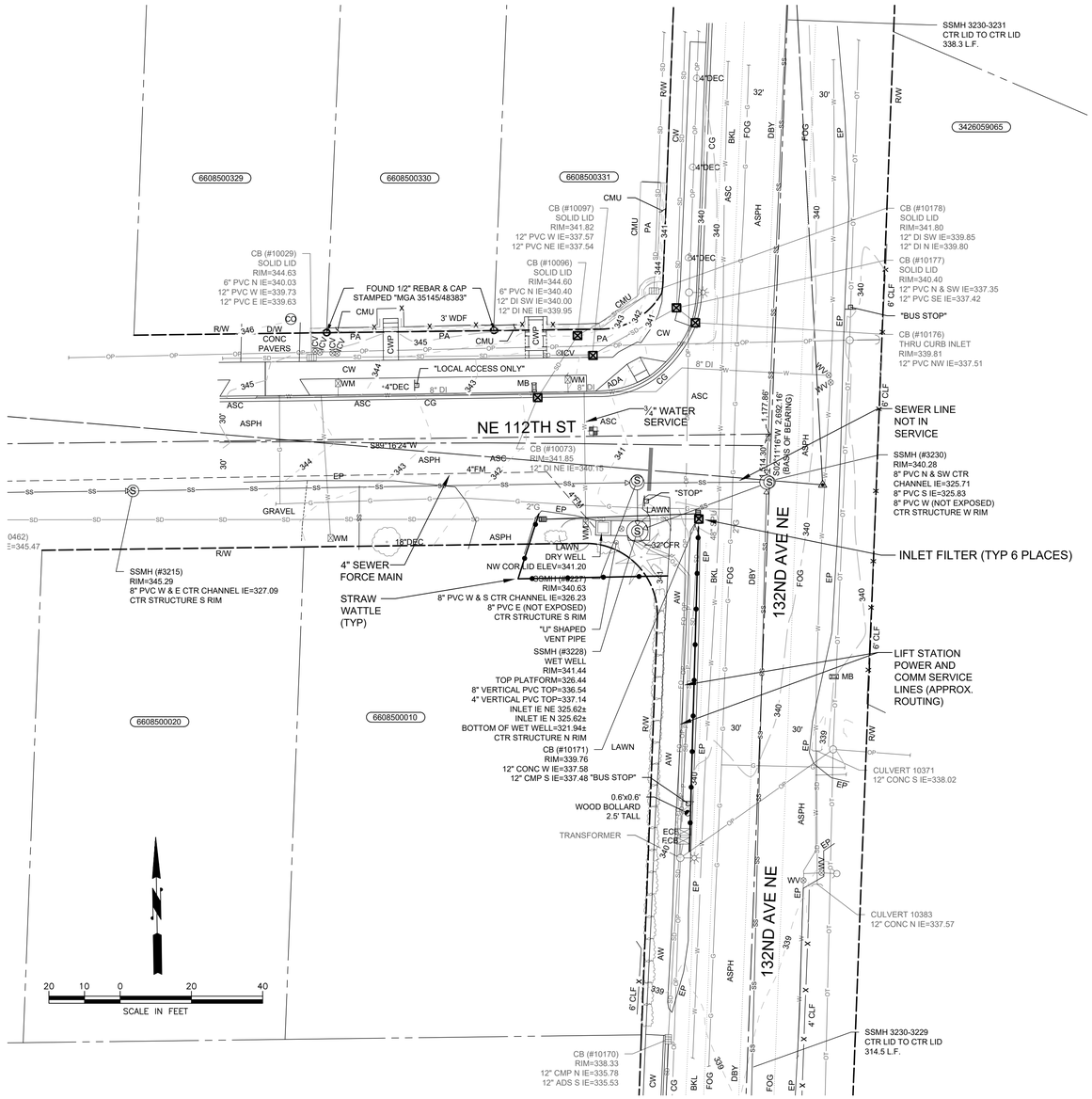

TESC PLAN

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DATE	NO.	REVISION	BY

RODNEY C. LANGER JR. STATE OF WASHINGTON 30046 REGISTERED PROFESSIONAL ENGINEER 08/05/25

UPI NO.: UPI#	FED. AID PROJ. NO.: AID#
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FUNDING NO. 34-24-PW

TREND LIFT STATION PROJECT

TESC SITE PLAN

REFERENCE SHEET NO. T2

SHEET 20 OF 20 SHEETS