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89 90 91 92 93 94 95 96 97 98 99 90 101 102 103 104 105 106 107 108 110 110 1110 1111 1112 113	T-103 T-104 T-105 T-106 T-106 T-107 T-108 T-109 T-109 T-201 T-202 T-204 T-205 T-206 T-207 T-208 T-209 T-210 T-210 T-210 T-210 T-211 T-212 T-213 T-214 T-215 T-216 T-218 T-218 T-219 T-2219	INSTALLATION PLAN - SWAN TOWER INSTALLATION PLAN - SWAN EATERIOR WALL PANEL AND ACTUATOR INSTALLATION PLAN - SWAN EXTERIOR WALL PANEL AND ACTUATOR INSTALLATION PLAN - SWAN EQUIPMENT ROOM INSTALLATION PLAN - SWAN BUILDING EXTERIOR CABLE ROUTING INSTALLATION PLAN - SWAN BUILDING EXTERIOR CABLE ROUTING INSTALLATION PLAN - SWAN BUILDING INTERIOR CABLE ROUTING INSTALLATION PLAN - VISTA HOUSE IWS SYSTEM DETAILS - 1 IWS SYSTEM DETAILS - 2 OWS SYSTEM DETAILS - 2 OWS SYSTEM DETAILS - 2 OWS SYSTEM DETAILS - 3 OWS SYSTEM DETAILS - 3 OWS SYSTEM DETAILS - 4 OWS SYSTEM DETAILS - 5 OWS SYSTEM DETAILS - 6 OWS SYSTEM DETAILS - 7 MISCELLANEOUS SIREN COMPONENT DETAILS OWS 5 VISTA HOUSE POLE DETAILS - 1 OWS 5 VISTA HOUSE POLE DETAILS - 2 OWS 5 VISTA HOUSE POLE DETAILS - 2 OWS 5 VISTA HOUSE POLE DETAILS - 4 PERMANENT POLE DETAILS - 3 OWS 5 VISTA HOUSE POLE DETAILS - 4 PERMANENT POLE DETAILS - 4 PERMANENT POLE DETAILS - 4 PERMANENT POLE DETAILS - 1 HMS DETAILS - 2 HMS DETAILS - 3 SWAN - PANEL ANTENNA MOUNTING DETAILS
89 90 91 91 92 93 94 95 96 99 99 100 101 102 103 104 105 106 107 108 109 110 111 111 111 111 111 111	T-103 T-104 T-105 T-106 T-107 T-108 T-108 T-109 T-107 T-201 T-201 T-202 T-203 T-204 T-205 T-206 T-207 T-208 T-209 T-210 T-211 T-213 T-214 T-215 T-216 T-216 T-217 T-218 T-219 T-221	INSTALLATION PLAN - SWAN TOWER INSTALLATION PLAN - SWAN ENTERIOR INSTALLATION PLAN - SWAN EXTERIOR WALL PANEL AND ACTUATOR INSTALLATION PLAN - SWAN EXTERIOR WALL PANEL AND ACTUATOR INSTALLATION PLAN - SWAN TOWER CABLE ROUTING INSTALLATION PLAN - SWAN BUILDING EXTERIOR CABLE ROUTING INSTALLATION PLAN - SWAN BUILDING INTERIOR CABLE ROUTING INSTALLATION PLAN - SWAN BUILDING INTERIOR CABLE ROUTING INSTALLATION PLAN - VISTA HOUSE IWS SYSTEM DETAILS - 1 IWS SYSTEM DETAILS - 2 OWS SYSTEM DETAILS - 2 OWS SYSTEM DETAILS - 2 OWS SYSTEM DETAILS - 3 OWS SYSTEM DETAILS - 3 OWS SYSTEM DETAILS - 5 OWS SYSTEM DETAILS - 5 OWS SYSTEM DETAILS - 6 OWS SYSTEM DETAILS - 7 MISCELLANEOUS SIREN COMPONENT DETAILS OWS 5 VISTA HOUSE POLE DETAILS - 1 OWS 5 VISTA HOUSE POLE DETAILS - 2 OWS 5 VISTA HOUSE POLE DETAILS - 2 OWS 5 VISTA HOUSE POLE DETAILS - 3 OWS 5 VISTA HOUSE POLE DETAILS - 2 OWS 5 VISTA HOUSE POLE DETAILS - 4 PERMANENT POLE DETAILS - 4 PERMANENT POLE DETAILS - 4 PERMANENT POLE DETAILS - 3 SWAN - PAOLE ANTENNA MOUNTING DETAILS 1 SWAN - PANEL ANTENNA MOUNTING DETAILS 1 SWAN - PANEL ANTENNA MOUNTING DETAILS 1
89 90 91 92 93 94 95 96 97 98 99 90 101 102 103 104 105 106 107 108 110 110 1110 1111 1112 113	T-103 T-104 T-105 T-106 T-106 T-107 T-108 T-109 T-109 T-201 T-202 T-204 T-205 T-206 T-207 T-208 T-209 T-210 T-210 T-210 T-210 T-211 T-212 T-213 T-214 T-215 T-216 T-218 T-218 T-219 T-2219	INSTALLATION PLAN - SWAN TOWER INSTALLATION PLAN - SWAN EATERIOR WALL PANEL AND ACTUATOR INSTALLATION PLAN - SWAN EXTERIOR WALL PANEL AND ACTUATOR INSTALLATION PLAN - SWAN EQUIPMENT ROOM INSTALLATION PLAN - SWAN BUILDING EXTERIOR CABLE ROUTING INSTALLATION PLAN - SWAN BUILDING EXTERIOR CABLE ROUTING INSTALLATION PLAN - SWAN BUILDING INTERIOR CABLE ROUTING INSTALLATION PLAN - VISTA HOUSE IWS SYSTEM DETAILS - 1 IWS SYSTEM DETAILS - 2 OWS SYSTEM DETAILS - 2 OWS SYSTEM DETAILS - 2 OWS SYSTEM DETAILS - 3 OWS SYSTEM DETAILS - 3 OWS SYSTEM DETAILS - 4 OWS SYSTEM DETAILS - 5 OWS SYSTEM DETAILS - 6 OWS SYSTEM DETAILS - 7 MISCELLANEOUS SIREN COMPONENT DETAILS OWS 5 VISTA HOUSE POLE DETAILS - 1 OWS 5 VISTA HOUSE POLE DETAILS - 2 OWS 5 VISTA HOUSE POLE DETAILS - 2 OWS 5 VISTA HOUSE POLE DETAILS - 4 PERMANENT POLE DETAILS - 3 OWS 5 VISTA HOUSE POLE DETAILS - 4 PERMANENT POLE DETAILS - 4 PERMANENT POLE DETAILS - 4 PERMANENT POLE DETAILS - 1 HMS DETAILS - 2 HMS DETAILS - 3 SWAN - PANEL ANTENNA MOUNTING DETAILS

DWG #	SHEET TITLE
T-303	SYSTEM DETAIL DIAGRAM — 3
T-304	SYSTEM DETAIL DIAGRAM - 4
T-305	SWAN ANTENNA AND CONTROL CABLE DIAGRAM
T-306	SWAN POWER AND CONTROL CABLE DIAGRAM
T-307	SWAN POWER WIRING DIAGRAM
T-308	DESKTOP IP INFORMER INSTALLATION DETAILS
X-101	QUALITY CONTROL CHECKLIST - 1
X-102	QUALITY CONTROL CHECKLIST - 2
TC-001	TRAFFIC CONTROL PLAN - GENERAL NOTES
TC-002	TRAFFIC CONTROL PLAN - OWS 9
TC-003	TRAFFIC CONTROL PLAN - OWS 10
	T-303 T-304 T-305 T-306 T-307 T-308 X-101 X-102 TC-001 TC-002

130 TC-004 TRAFFIC CONTROL PLAN - HMS 1 131 TC-005 TRAFFIC CONTROL PLAN - HMS 2 | 132 | TC-005 | TRAFFIC CONTROL PLAN - HMS 3 | 133 | TC-007 | TRAFFIC CONTROL PLAN - HMS 4 NW, SW | 134 | TC-008 | TRAFFIC CONTROL PLAN - HMS 8 | 134 | TC-008 | TRAFFIC CONTROL PLAN - HMS 8 | 134 | TC-008 | TRAFFIC CONTROL PLAN - HMS 8 | 134 | TC-008 | TRAFFIC CONTROL PLAN - HMS 8 | 134 | TC-008 | TRAFFIC CONTROL PLAN - HMS 8 | 134 | TC-008 | TRAFFIC CONTROL PLAN - HMS 8 | 134 | TC-008 | TRAFFIC CONTROL PLAN - HMS 8 | 134 | TC-008 | TRAFFIC CONTROL PLAN - HMS 8 | 134 | TC-008 | TRAFFIC CONTROL PLAN - HMS 8 | 134 | TC-008 | TRAFFIC CONTROL PLAN - HMS 8 | 134 | TC-008 | TRAFFIC CONTROL PLAN - HMS 8 | 134 | TC-008 | TRAFFIC CONTROL PLAN - HMS 8 | 134 | TC-008 | TRAFFIC CONTROL PLAN - HMS 8 | 134 | TC-008 | TRAFFIC CONTROL PLAN - HMS 8 | 134 | TC-008 | TRAFFIC CONTROL PLAN - HMS 8 | 134 | TC-008 | TRAFFIC CONTROL PLAN - HMS 8 | 134 | TC-008 | TRAFFIC CONTROL PLAN - HMS 8 | 134 | TC-008 | TRAFFIC CONTROL PLAN - HMS 8 | 134 | TC-008 | TRAFFIC CONTROL PLAN - HMS 8 | 134 | TC-008 | TRAFFIC CONTROL PLAN - HMS 8 | 134 | TC-008 | TRAFFIC CONTROL PLAN - HMS 8 | 134 | TC-008 | TRAFFIC CONTROL PLAN - HMS 8 | 134 | TC-008 | TRAFFIC CONTROL PLAN - HMS 8 | 134 | TC-008 | TRAFFIC CONTROL PLAN - HMS 8 | 134 | TC-008 | TRAFFIC CONTROL PLAN - HMS 8 | 134 | TC-008 | TRAFFIC CONTROL PLAN - HMS 8 | 134 | TC-008 | TRAFFIC CONTROL PLAN - HMS 8 | 134 | TC-008 | TRAFFIC CONTROL PLAN - HMS 8 | 134 | TC-008 | TRAFFIC CONTROL PLAN - HMS 8 | 134 | TC-008 | TC

SHEET INDEX

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ADCOMM Engineering LLC



59 C-120 SITE PLAN - HMS 3

APPROVED FOR ADVERTISING LIZ ALZEER
DEPARTMENT OF FINANCE & ADMINISTRATIVE SERVICES
SEATTLE, WASHINGTON
BY;

INITIALS	AND DATE	INITIA	ALS AND DATE
DESIGNED JSG CHECKED DLJ	6/01/22 6/01/22	REVIEWED: DES. SDOT	CONST. PROJ. MGR.
 DRAWN JAR	6/01/22	RECEIVED	
CHECKED JSG	6/01/22	REVISED AS I	BUILT
	ONE IN ACCORDANCE WITH THE DOCUMENTS CALLED FO		E STANDARD PLANS AND 2.3 OF THE PROJECT MANUAL.



TOLT DAM EARLY WARNING SYSTEM — OTHER PROJECT COMPONENTS

B PC C115120 VPI # 785−45 G-003 SHEET 3 OF 134

SHEET INDEX

ALL LOCATIONS

GENERAL NOTES

- SCHALTACE MOVIES

 1. A COPY OF THE APPROVED PLAN MUST BE ON SITE WHENEVER
 CONSTRUCTION IS IN PROGRESS.
 2. ALL PERMIS FOR WORK MUST BE OBTAINED PRIOR TO THE START OF
 CONSTRUCTION. CONTRACTOR TO NOTIFY SPU ENGINEER PAJ HWANG AT PAJ.HWANG@SEATTLE.GOV ONCE INITIAL ESC FACILITIES HAVE BEEN
- 3. ALL WORK MUST BE PERFORMED IN ACCORDANCE WITH ALL PERMITS INCLUDED IN THE PROJECT MANUAL AND OBTAINED BY THE CONTRACTOR OR THE OWNER.
 ALL DAMAGE TO INFRASTRUCTURE CAUSED BY THE CONSTRUCTION MUST
- BE IMMEDIATELY REPORTED TO THE ENGINEER AND REPAIRED AS REQUIRED BY THE ENGINEER.
- DATUM: NAVD88 AND NAD83 (2011) 2010.00 EPOCH.
 SURVEYING AND STAKING OF ALL IMPROVEMENTS IN THE PUBLIC RIGHT
- OF WAY MUST BE DONE IN ACCORDANCE WITH SPECIFICATION SECTION O1 71 23 FIELD ENGINEERING AND COMPLETED PRIOR TO CONSTRUCTION.
- 7. THE CONTRACTOR IS RESPONSIBLE FOR REFERENCING AND REPLACING ALL MONUMENTS THAT MAY BE DISTURBED, DESTROYED, OR REMOVED BY THE PROJECT, AND AT LEAST 2 WORKING DAYS PRIOR TO THE WORK, MUST FILE AN APPLICATION FOR PERMIT TO REMOVE OR DESTROY A SURVEY MONUMENT WITH THE WASHINGTON STATE DEPARTMENT OF NATURAL RESOURCES, PURSUANT TO WAS 332-120.
 THE CONTRACTOR MUST PROVIDE THE ENGINEER AND SPU LAND
 SURVEY WITH A COPY OF THE APPROVED PERMIT AND COMPLETION REPORT. SEE SPECIFICATION SECTIONS 00 72 00 AND 00 73 00. THE CONTRACTOR MUST LOCATE AND PROTECT ALL CASTINGS AND
- UTILITIES DURING CONSTRUCTION.
 THE CONTRACTOR MUST CONTACT THE UNDERGROUND UTILITIES LOCATOR
- SERVICE (811) AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.

 10. ALL EXCAVATION ADJACENT TO UTILITY POLES OR OTHER INSTALLATIONS MUST COMPLY WITH WASHINGTON ADMINISTRATIVE CODE (WAC), SAFETY STANDARDS FOR CONSTRUCTION WORK, PART N. SITE SAFETY PROCEDURES AND EXCAVATION PROTECTIVE SYSTEM MUST SPECIFICALLY COMPLY WITH WAC 296-155-650, EXCAVATION, TRENCHING AND
- 11. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXTENT OF ANY HAZARD CREATED BY OVERHEAD POWER. THE CONTRACTOR MUST MEET WITH UTILITY OWNERS PRIOR TO CONSTRUCTION AND MUST TAKE WHATEVER PRECAUTIONS ARE REQUIRED BY LAW AND REGULATIONS,
- UTILITY OWNERS OR SAFE CONSTRUCTION PRACTICES.

 12. FOR LOCATIONS IN THE DRAWINGS WHERE TREES ARE CALLED OUT TO BE PROTECTED IN PLACE, THE CONTRACTOR MUST FOLLOW CITY OF SEATTLE STANDARD PLAN 1326 OR 132b.

 13. AREAS SPECIFIED TO BE RESTORED WITH MULCH MUST USE ARBORIST
- WOOD CHIP MULCH PER SPECIAL PROVISION 01 57 13

- STORMWATER AND EROSION CONTROL NOTES

 1. THE CONCEPTUAL CONSTRUCTION SEDIMENT AND EROSION CONTROL MEASURES SHOWN ON THIS PLAN ARE THE MINIMUM BMPS FOR ANTICIPATED SITE CONDITIONS DURING THE CONSTRUCTION PERIOD. IF THE CONTRACTOR ADOPTS THIS CONCEPTUAL PLAN, THE CONTRACTOR'S MEANS AND METHODS MUST COMPLY WITH THE PLAN. THE CONTRACTOR MUST KEEP THE PLAN CURRENT IN ACCORDANCE WITH THE
- MUST KEEP THE PLAN CURRENT IN ACCORDANCE WITH THE JURISDICTION'S REQUIREMENTS EACH SITE IS LOCATED. THE EROSION AND SEDIMENTATION (ESC) CONTROL FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED PRIOR TO OR IN CONJUNCTION WITH ALL CLEARING AND GRADING SO AS TO ENSURE THAT THE TRANSPORT OF SEDIMENT TO SUFFACE WATERS, DRAIMAGE SYSTEMS, AND ADJACENT PROPERTIES IS MINIMIZED.

 AND ADJACENT PROPERTIES IS MINIMIZED.

 THE ESC FACILITIES MUST BE INSPECTED DATA BY THE CONTRACTOR.
- THE ESC FAULLILES MOST BE INSPECIED VALLE OF THE CONTRACTOR.

 AND MAINTANED TO ENSURE CONTINUED PROPER FUNCTIONING, WRITTEN RECORDS MUST BE KEPT OF WERKLY REVIEWS OF THE ESC FACILITIES, AREAS OF EXPOSED SOILS THAT WILL NOT BE DISTURBED FOR TWO DAYS DURING THE WET SEASON OR SEVEN DAYS DURING THE DRY SEASON MUST BE IMMEDIATELY STRAILIZED WITH THE APPROVED ESC COVER METHODS (E.G., SEEDING, MULCHING, PLASTIC COVERING, ETC.)
 5. ANY AREA NEEDING ESC MEASURES, NOT REQUIRING IMMEDIATE
- ATTENTION, SHALL BE ADDRESSED WITHIN TWO (2) DAYS BETWEEN OCTOBER 1 - APRIL 30, OR SEVEN (7) DAYS BETWEEN MAY 1 -SEPTEMBER 30.
- SEPTEMBER 30.

 THE ESC FACILITIES ON INACTIVE SITES MUST BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH OR WITHIN 24 HOURS FOLLOWING A STORM EVENT.
- AT NO TIME SHALL MORE THAN ONE (1) FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A CATCH BASIN. CATCH BASIN CLEANING OPERATIONS MUST NOT FLUSH SEDIMENT—LADEN WATER INTO THE DOWNSTREAM SYSTEM.

PRIOR TO THE BEGINNING OF THE WET SEASON (OCT.1), ALL DISTURBED AREAS MUST BE REVIEWED TO IDENTIFY WHICH ONES CAN BE SEEDED IN PREPARATION FOR THE WINTER RAINS. DISTURBED AREAS MUST BE SEEDED WITHIN ONE WEEK OF THE BEGINNING OF THE WET SEASON. THE CONTRACTOR MUST MINIMIZE VEHICLE TRACKING OF SEDIMENT

OFF-SITE. STREET SWEEPING, STREET CLEANING, OR WHEEL WASH/TIRE BATHS MAY BE NECESSARY IF SEDIMENT IS PRESENT ON ADJACENT STREETS, AS DETERMINED BY THE ENGINEER.

WORK IN KING COUNTY

GENERAL NOTES

- THE KING COUNTY GENERAL NOTES APPLY TO SITES WITHIN KING COUNTY ROW AND ROADWAYS MAINTAINED BY KING COUNTY.
 THE CONTRACTOR MUST REQUEST A PRECONSTRUCTION CONFERENCE
- WITH KING COUNTY'S LAND USE DEPARTMENT FOR PROJECT LOCATIONS WITHIN KING COUNTY ROW, OR ROADWAY ROW MAINTAINED BY KING COUNTY. THREE WORKING DAYS PRIOR NOTICE MUST BE PROVIDED TO THE COUNTY AND THE PRECONSTRUCTION CONFERENCE MUST PRECEDE THE BEGINNING OF CONSTRUCTION AND INCLUDE THE APPLICANT, TICONTRACTOR, DESIGN ENGINEER, UTILITY REPRESENTATIVES, AND OTHER APPLICABLE PARTICIPANTS, PLAN APPROVALS AND PERMITS MUST BE IN HAND PRIOR TO THE CONFRENCE.

 THE CONTRACTOR MUST CALL THE KING COUNTY PERMITTING DEPARTMENT INSPECTIONS AT 206-296-6600 TO SCHEDULE TIME FOR A LAND USE INSPECTOR TO BE ON SITE.
- CONSTRUCTION PERMITS WITHIN KING COUNTY RIGHT OF WAY MAY BE OBTAINED BY CALLING 206-296-7456.
- OBTAINED BY CALLING 200-290-7450.

 BEFORE ANY WORK BEGINS ON KING COUNTY PARKS PROPERTY, THE CONTRACTOR MUST CONTACT KING COUNTY DISTRICT COORDINATOR MARK THIERY AT 206-423-5659 OR MARK.THIERY@KINGCOUNTY.GOV
- MARK IFIERT AI 20E-423-5559 OF MARK-IFIERT GRINCOUNTISOUS AND AND YEAR STATEMENT OF THE KING COUNTY DEVELOPMENT ENGINEER PRIOR TO BEGINNING WORK. TRAFFIC CONTROL MUST FOLLOW THE GUIDELINES OF SECTION 1-07.23 OF THE WSDOT/APWA STANDARD SPECIFICATIONS. ALL BARRICADES, SIGNS AND FLAGGING MUST CONFORM TO THE DESIGN AND CONSTRUCTION STANDARDS.

 GROUND SUFFACES DISTURBED DURING CONSTRUCTION MUST BE
- RESTORED IN KIND PER THE COVER MEASURES IN APPENDIX D OF THE KING COUNTY SURFACE WATER DESIGN MANUAL PER THE SPECIAL PROVISIONS
- THE CONTRACTOR IS RESPONSIBLE FOR TRIMMING TREES FOR OVERHEAD CLEARANCE; THIS MUST BE COORDINATED WITH THE KING COUNTY INSPECTOR ASSIGNED TO THE PROJECT.

STORMWATER AND EROSION CONTROL NOTES

- COVER MEASURES WILL BE APPLIED IN CONFORMANCE WITH APPENDIX D OF THE KING COUNTY SURFACE WATER DESIGN MANUAL.
- THE CONTRACTOR MUST FOLLOW THE KING COUNTY SURFACE WATER DESIGN MANUAL FOR EROSION AND SEDIMENT CONTROL BMP
- THE CONTRACTOR MUST PROVIDE AT LEAST ONE WORKING DAY NOTICE PRIOR TO INITIAL SITE WORK INVOLVING INSTALLATION OF TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES.

WORK IN CITY OF SEATTLE OR TOLT DAM WATERSHED

GENERAL NOTES

- SENTING TO FEATLE GENERAL NOTES APPLY TO PROJECT SITES WITHIN THE CITY OF SEATILE AND TOLT DAM AREA SITES.

 2. ALL DISTURBED SOILS MUST BE AMENDED PER CITY OF SEATILE STANDARD PLAN 142 AND SECTION 8-02 OF THE STANDARD SPECIFICATIONS UNLESS WITHIN ONE FOOT OF A CURB OR SIDEWALK, THERE FEET OF A UTILITY STRUCTURE (E.G., WATER METER, UTILITY POLE, HAND HOLE, ETC.) OR THE DRIPLINE OF AN EXISTING TREE.

STORMWATER AND EROSION CONTROL NOTES

- SUBMIT A CONSTRUCTION STORMWATER AND EROSION CONTROL PLAN (CSECP) AND SPILL PLAN (SP) IN ACCORDANCE WITH SPECIFICATION SECTION 01 57 13.

 THE CONCEPTUAL CSEC MEASURES SHOWN ON THIS PLAN ARE THE MINIMUM BMSP FOR ANTICIPATED SITE CONDITIONS DURING THE
- CONSTRUCTION PERIOD. IF THE CONTRACTOR ADOPTS THIS CONCEPTUAL
 CSEC PLAN, THE CONTRACTOR'S MEANS AND METHODS MUST COMPLY WITH THE PLAN. THE CONTRACTOR MUST KEEP THE PLAN CURRENT IN ACCORDANCE WITH SPECIFICATION SECTION 01 57 13.
- 3. PROTECT TREES AND VEGETATION PER SPECIFICATION SECTION 01 76 00.

WORK IN WSDOT R/W

GENERAL NOTES

- ALL MATERIALS AND WORKMANSHIP MUST BE IN ACCORDANCE WITH THE ALL MATERIALS AND WORKMANSHIP MUST BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE STATE OF WASHINGTON, DEPARTMENT OF TRANSPORTATION (WSDDT), STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION, CURRENT EDITION. TRAFFIC CONTROL SIGNS MUST BE REMOVED AT THE END OF EACH WEEK WORK DAY IF NOT APPLICABLE AFTER CONSTRUCTION HOURS. ALL NECESSARY TRAFFIC CONTROL DEVICES MUST BE IN PLACE PRIOR TO THE BEGINNING OF CONSTRUCTION.

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ADCOMM Engineering LLC

C:\pw_ jacobr



APPROVED FOR ADVERTISING LIZ ALZEER DEPARTMENT OF FINANCE & ADMINISTRATIVE SERVICES SEATTLE, WASHINGTON 20

CITY PURCHASING & CONTRACTING SERVICES DIRECTOR

EVIEWED: 6/01/22 CHECKED DLJ 6/01/22 RECEIVED DRAWN DRAWN AKS CHECKED JSG 6/01/22 6/01/22 REVISED AS BUILT ALL WORK SHALL BE DONE

INITIALS AND DATE

INITIALS AND DATE

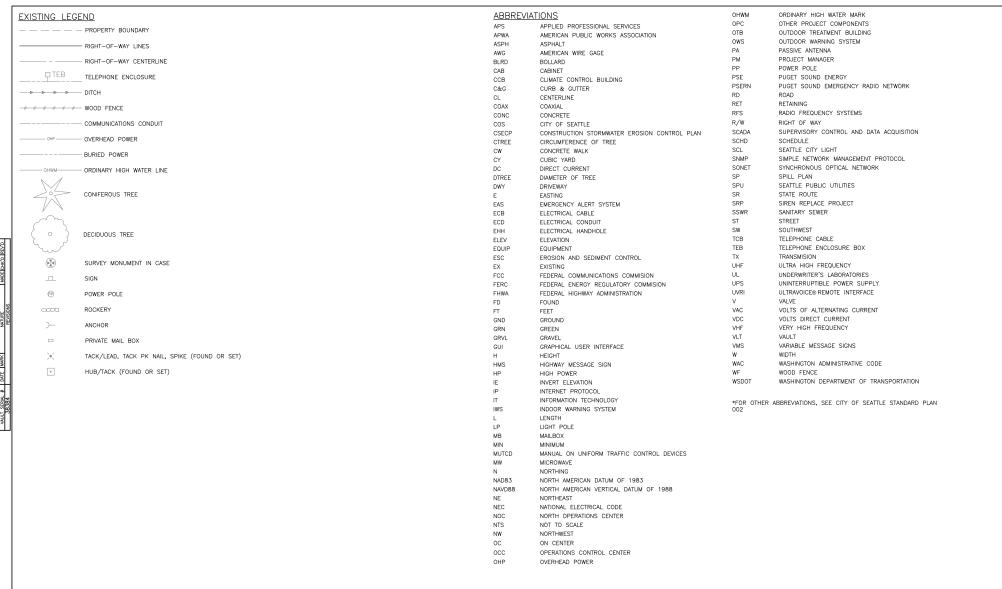




PW NO. 2022-029

TOLT DAM EARLY WARNING SYSTEM - OTHER PROJECT COMPONENTS

GENERAL NOTES C115120 vPI # 785-45 G-004 SHEET 4 OF 134



INITIALS AND DATE INITIALS AND DATE 6/01/22 CHECKED DLJ 6/01/22 6/01/22 6/01/22 REVISED AS BUILT ALL WORK SHALL BE DONE IN ACCORDANCE WITH





TOLT DAM EARLY WARNING SYSTEM - OTHER PROJECT COMPONENTS

LEGEND AND ABBREVIATIONS vPI# 785-45 G-005 SHEET 5 OF 134

ADCOMM Engineering LLC

DEPARTMENT OF FINANCE & ADMINISTRATIVE SERVICES SEATTLE, WASHINGTON 20 . CITY PURCHASING & CONTRACTING SERVICES DIRECTOR

PROJECT NUMBER; C115120 DESIGN 30% HORIZONTAL DATUM: NAD83-2011 EPOCH 2010.00 DERIVED FROM THE WSRN AND NGS CORS PROJECT NAME: TOLT DAM WARNING SYSTEM - OWS #5 VERTICAL DATUM: NAVD88

SURVEY PROJECT FOLDER NUMBER: 261-1398

BASIS OF BEARING: WASHINGTON STATE PLANE COORDINATE SYSTEM, NORTH ZONE

REFERENCE DOCUMENTS:

DATE: 07-09-2021 PRJ. SURVEYOR: R. BYARLAY

PRIMARY CREW; B. REYES

OFFICE TECH: G. HARRIS

PROJECT SCALE FACTOR: 0.999969363

CONVERGENCE ANGLE: -0'38'13.8"

R/W CREATED BY: R. BYARLAY

GEOREGISTRATION NOTES: SEC 32, T26N, R09E (KING COUNTY)

PROJECT COMBINED GRID FACTOR: 0.999887938

<u>CP #11</u> -FND IRON PIPE ELEV=1774.05'

SEE >NR:WA.GOV/PUBLICATIONS/ENG_PLSO_REMOVE_DESTROY_MONUMENT.ZIP WWW.DNK.WA.GOV/PUBLICATIONS/ENG_PLSO_REMOVE_DESITE
_DNR AT (360) 902—1230.
TIME THE PERMITS ARE PROVIDED TO THE ENGINEER, THE
TIME THE PERMITS ARE PROVIDED TO THE ENGINEER, THE
THORIZING SIGNATURES AND FINAL REPORT FORM TO THE
REVEY MANAGER, SCATILE PUBLIC UTULIES, PHOM TO
SE SEATHE MONICIPAL TOWER, 700 FIFTH AVENUE, OR
ADDRESS: POR SOX 34018, SCATILE, WAS 98124—4018.



F	Primary Survey Control Table									
Point # Northing Easting Elevation Description										
11	254613.22	1429663.09	1774.05	IP 38910702						
12	254121.60	1429679.03	1777.87	MIC TD07						
15 254614.25 1429411.79 1800.87 SPK										
16	254513.84	1429376.89	1804.18	SPK						

REVIEWED:

RECEIVED

REVISED AS BUILT

<u>OWS 5</u>

-TOLT DAM

VISTA HOUSE



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APPROVED FOR ADVERTISING
LIZ ALZEER
DEPARTMENT OF FINANCE & ADMINISTRATIVE SERVICES INITIALS AND DATE 6/01/22 6/01/22 CHECKED SEATTLE, WASHINGTON 20 . 6/01/22 6/01/22





TOLT DAM EARLY WARNING SYSTEM - OTHER PROJECT COMPONENTS

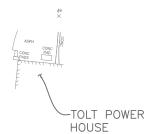
SURVEY CONTROL - OWS 5 vPi# 785-45 V-101 SHEET 6 OF 134







OWS 6 (NEW)



Primary Survey Control Table								
Point #	Northing	Easting	Elevation	Description				
1	258225.26	1404570.00	772.53	MIC RBW3				
2	258345.02	1404777.97	775.81	MON KC AS-204				
3	256882.44	1406449.42	772.61	MIC RBS4				
4	257331.04	1406846.08	781.86	PED 3				
6	256615.27	1406524.10	780.27	MAG 40861201				
7	256704.09	1406124.14	785.04	RC 41105701				
8	256800.52	1406006.27	810.53	RC 41105702				
9	256903.90	1405913.55	847.50	SPK 41201301				
10	257106.18	1405834.63	835.81	SPK 41201302				

HORIZONTAL DATUM: NAD83-2011 EPOCH 2010.00 DERIVED FROM THE WSRN AND NGS PROJECT NAME: TOLT DAM WARNING SYSTEM - OWS #78

BASIS OF BEARING: WASHINGTON STATE PLANE COORDINATE SYSTEM, NORTH ZONE

DATE: 10/01/2021 VERTICAL BENCHMARKS: CP #3 PRJ. SURVEYOR: R. BYARLAY PROJECT FIELD BOOK: #4086 PG 12, #4110 PG 57, #4120 #13-15 PRIMARY CREW: R. BYARLAY, H. EASTMAN, N. RASMUSSEN, D. McNEIL

R/W CREATED BY: NO RWAY FOR SITE CONVERGENCE ANGLE: -0'42'26.7" GEOREGISTRATION NOTES: NE 1/4 OF SEC 33, T26N, R08E PROJECT COMBINED GRID FACTOR: 0.9999351789

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DEPARTMENT OF FINANCE & ADMINISTRATIVE SERVICES

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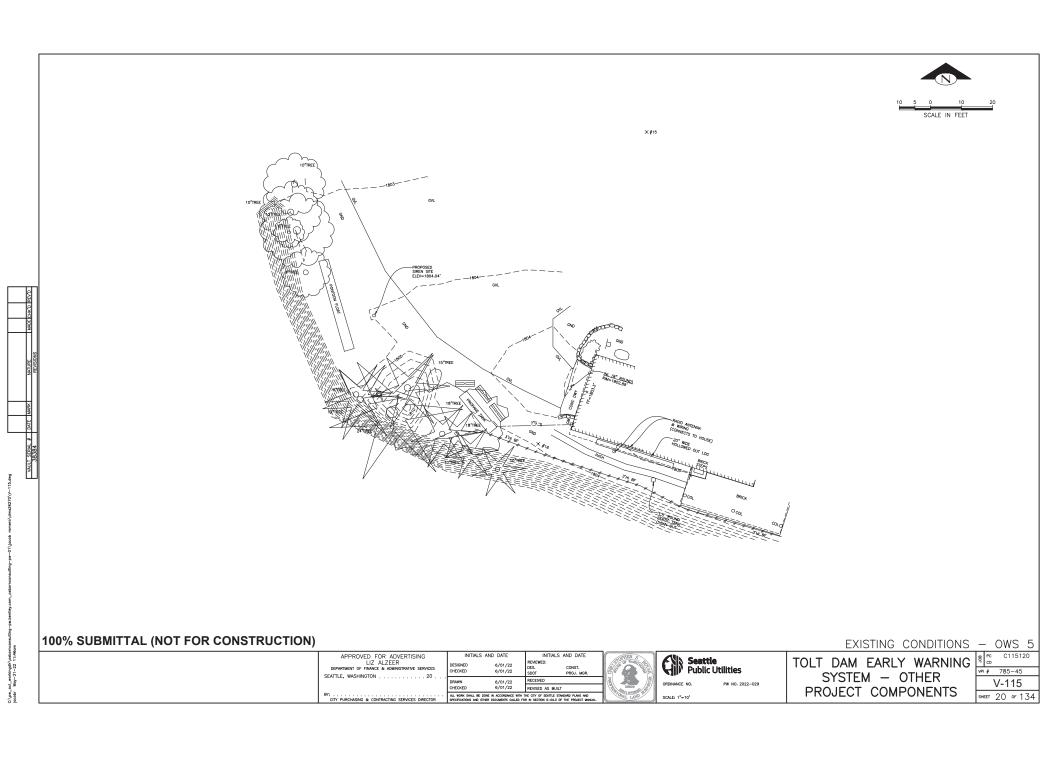


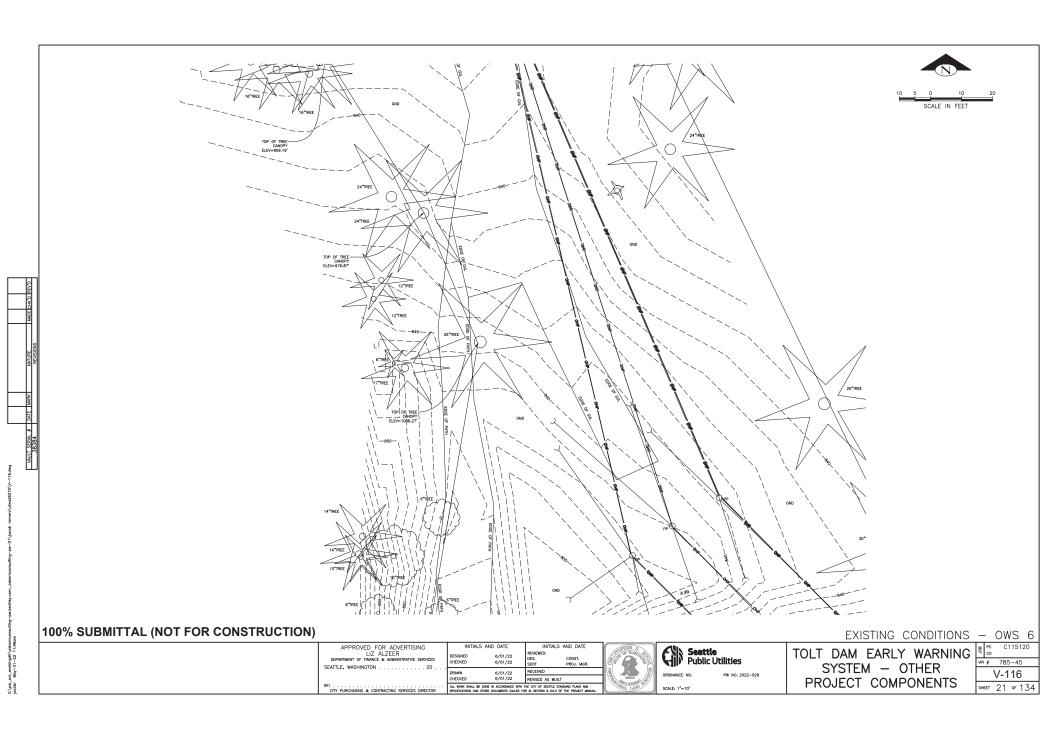
TOLT DAM EARLY WARNING SYSTEM - OTHER PROJECT COMPONENTS

SURVEY CONTROL

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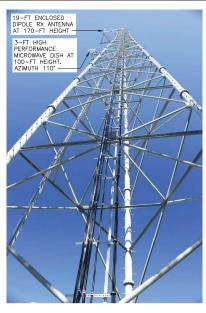




VIEW OF 235' TOWER SOUTHWEST FACE



VIEW OF 235' TOWER SOUTHWEST FACE



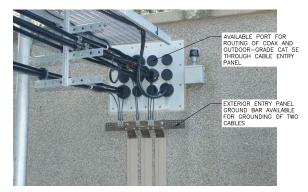
WAVEGUIDE LADDER ON TOWER EAST **FACE**



NORTH EXTERIOR WALL OF BUILDING SHOWING PROPOSED AREA FOR MOUNTING WEATHERPROOF SIREN ACTIVATION ENCLOSURE



TOWER GROUND BAR AT TRANSMISSION LINE VERTICAL-TO-HORIZONTAL TRANSITION ON TOWER EAST FACE



NORTH EXTERIOR WALL OF BUILDING SHOWING CABLE ENTRY PORT AND EXTERIOR GROUND BAR

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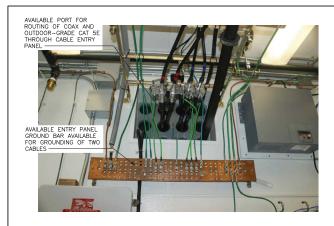
INITIALS AND DATE





EXISTING CONDITIONS - SWAN 1 TOLT DAM EARLY WARNING SYSTEM - OTHER PROJECT COMPONENTS

vPI# 785-45 V-128 SHEET 33 OF 134



VIEW NORTH INSIDE BUILDING SHOWING CABLE ENTRY PANEL AND INTERIOR GROUND BAR



VIEW NORTH INSIDE BUILDING SHOWING CABLE ENTRY PANEL, INTERIOR GROUND BAR, AND CONDUIT EGRESS POINT



VIEW EAST INSIDE BUILDING SHOWING CABLE TRAY CONFIGURATION



VIEW SOUTHEAST INSIDE BUILDING SHOWING RACK LOCATIONS

NEW RACK TO BE INSTALLED IN ROW 1, RACK 2 POSITION



VIEW SOUTHWEST INSIDE BUILDING SHOWING ROW 1, RACK 1

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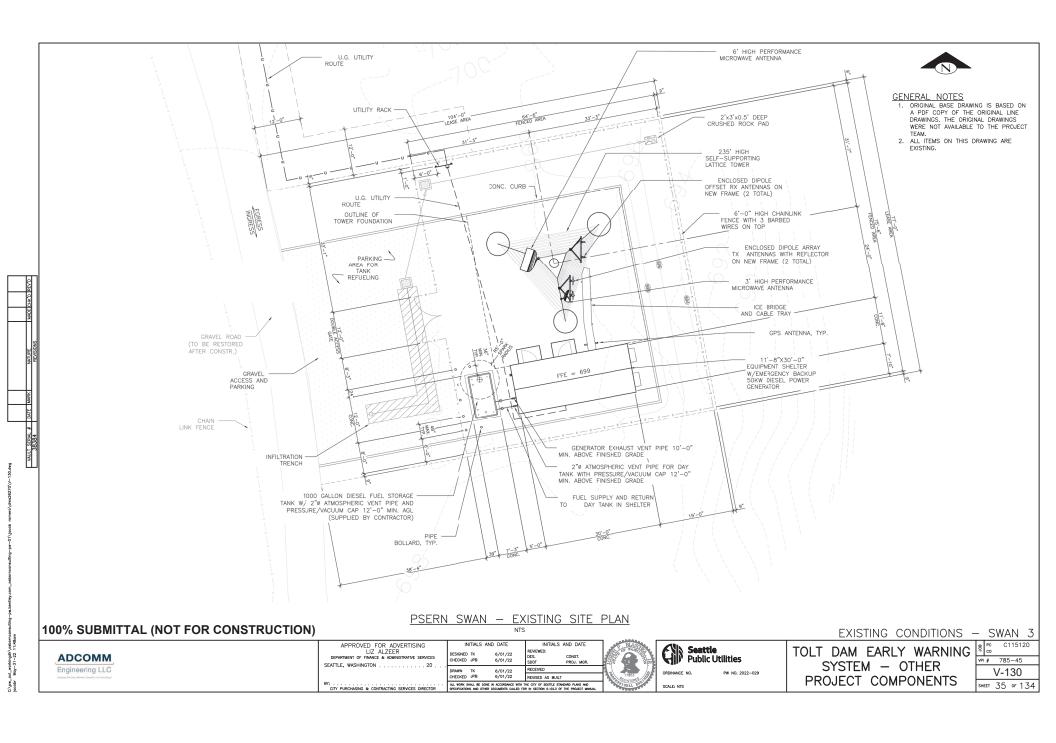


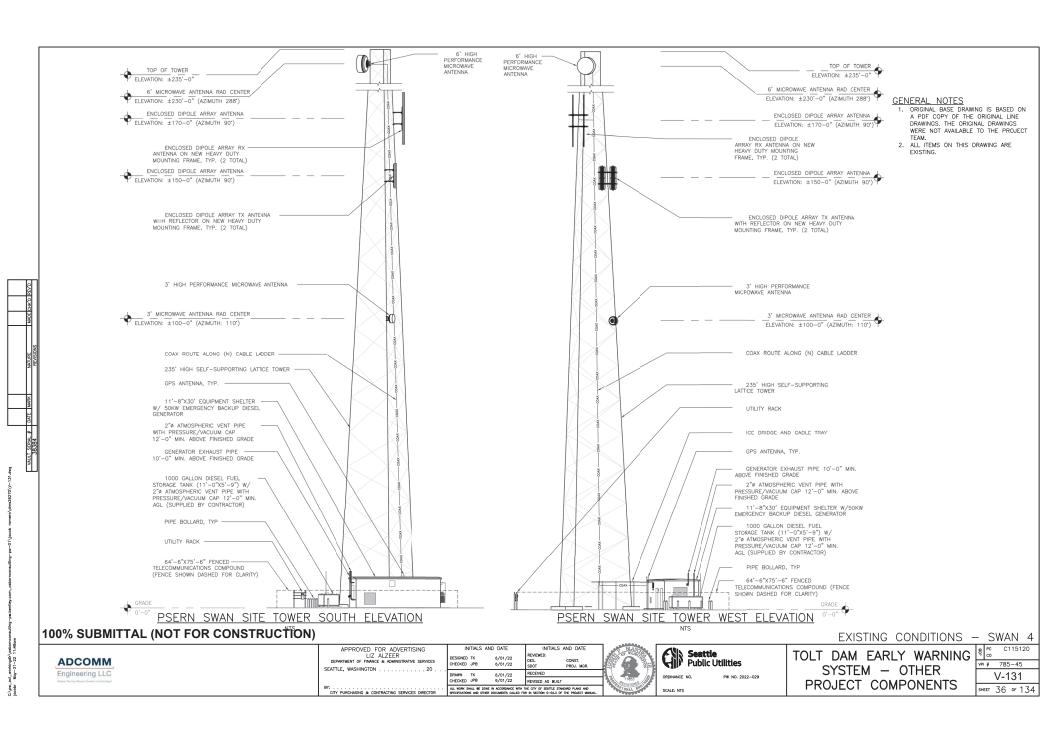
ROW 1. RACK 1

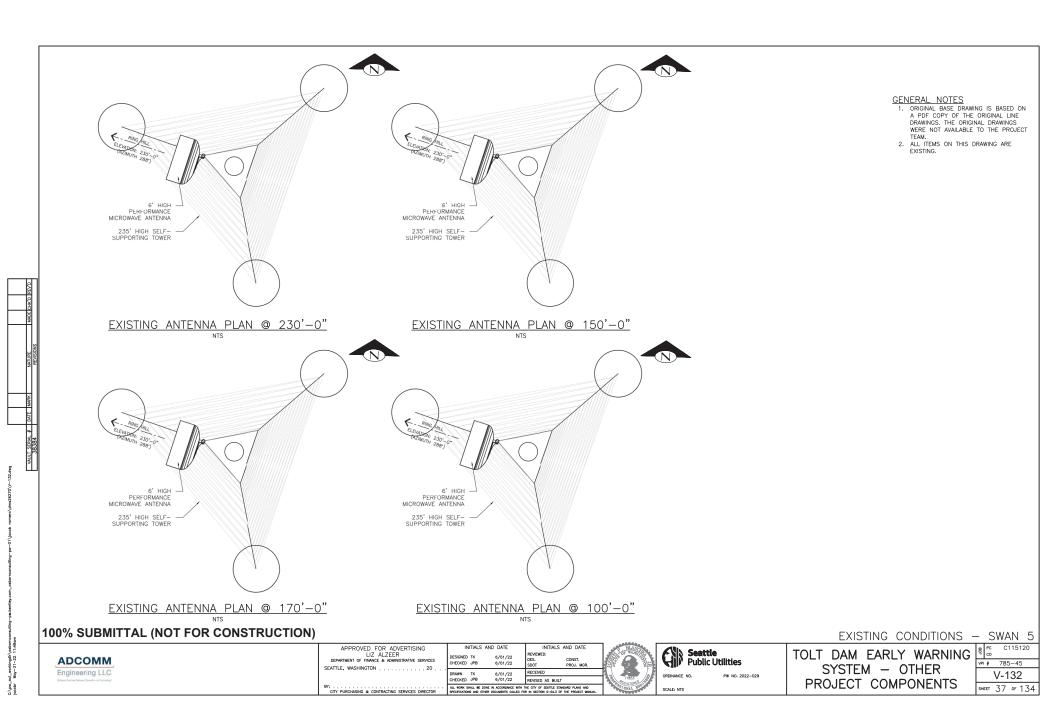
TOLT DAM EARLY WARNING SYSTEM - OTHER PROJECT COMPONENTS

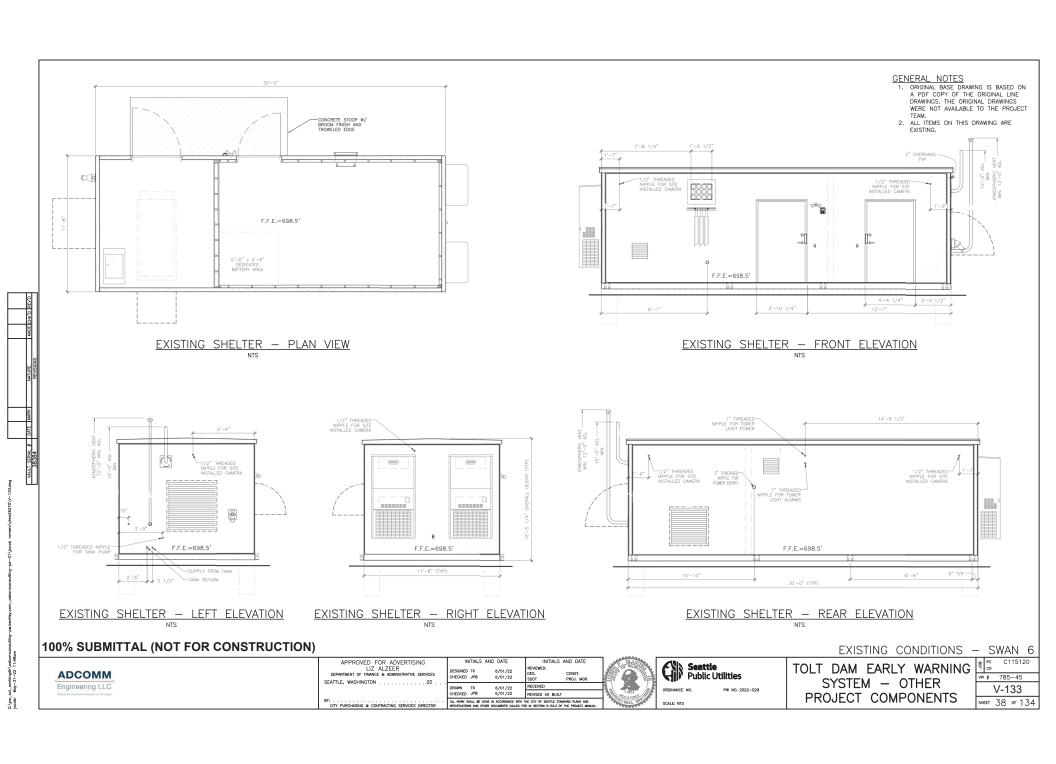
EXISTING CONDITIONS - SWAN 2

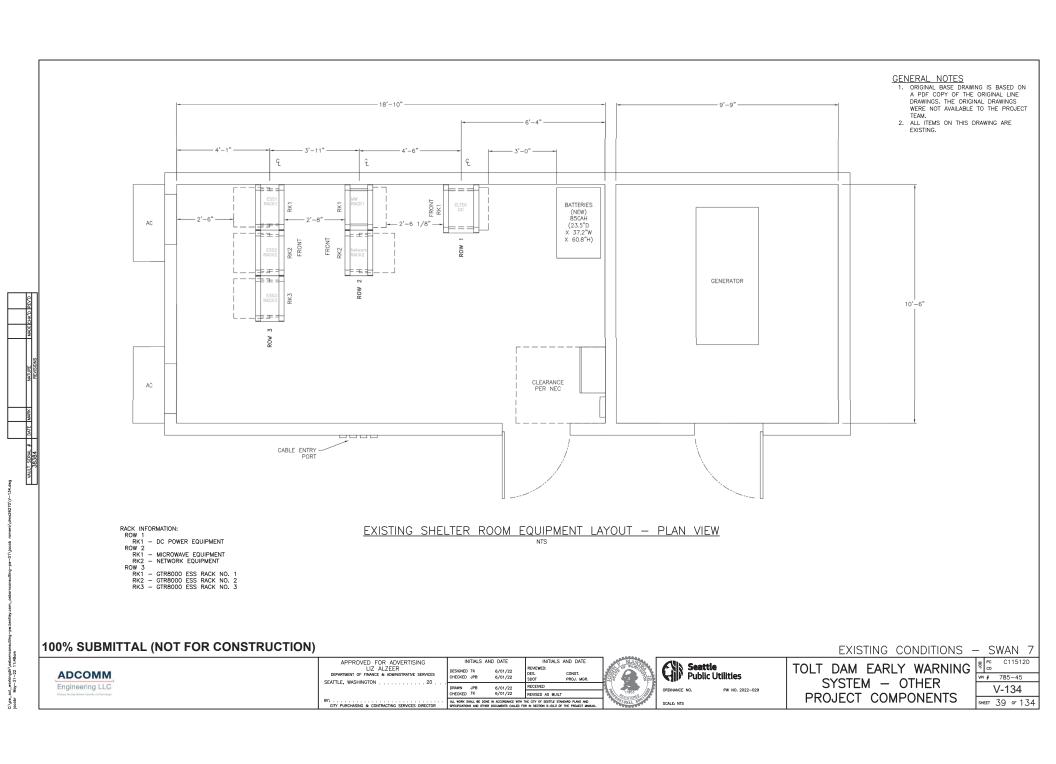
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	VPI SHI	9 ∞	⁸ ∞ vPI # 785 V-1	9 ∞ vPI # 785-4 V-129	⁹ ∞ ^{VPI #} 785-45 V-129

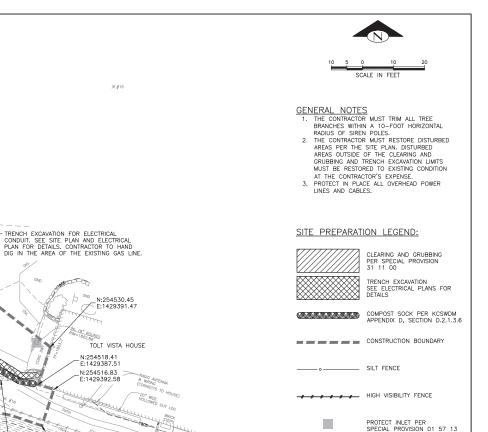














N:254562.10 E:1429301.72

PROTECT IN PLACE EXISTING TREE

N:254527.51 E:1429317.37

REMOVE DEAD TREE

Seattle Public Utilities

PW NO. 2022-029

TOLT DAM EARLY WARNING SYSTEM - OTHER PROJECT COMPONENTS

SITE PREPARATION - OWS 5 vPI# 785-45 C-101 SHEET 40 OF 134

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N:254515.74 E:1429343.11

PROTECT IN PLACE EXISTING PROPANE TANK

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INITIALS AND DATE

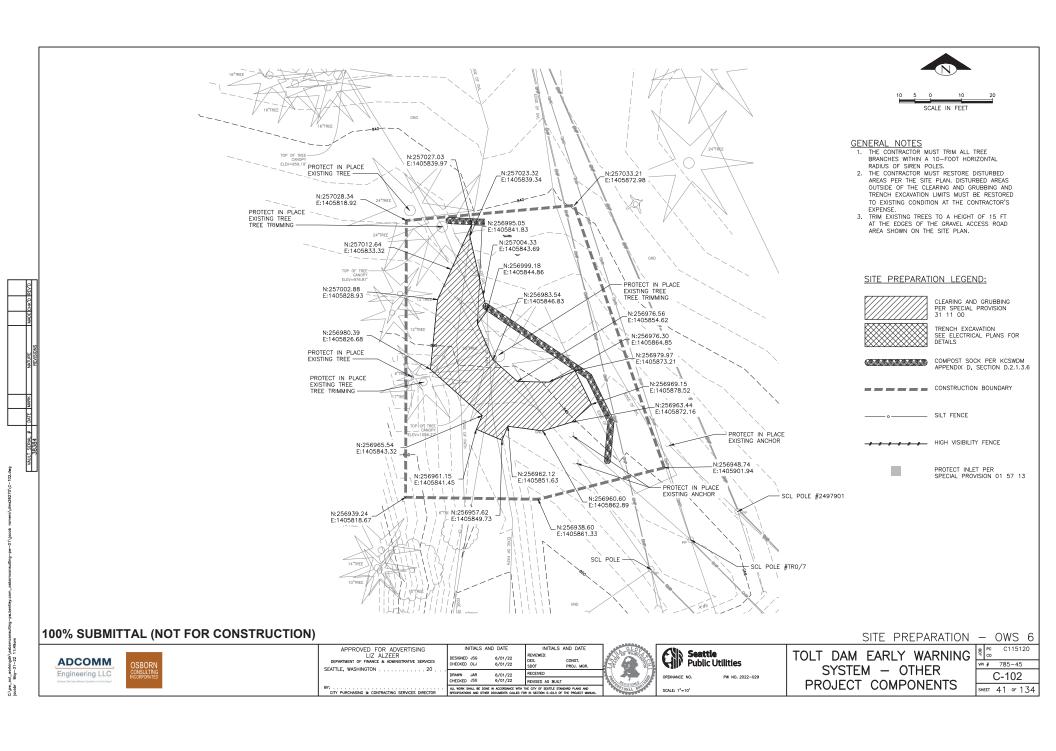
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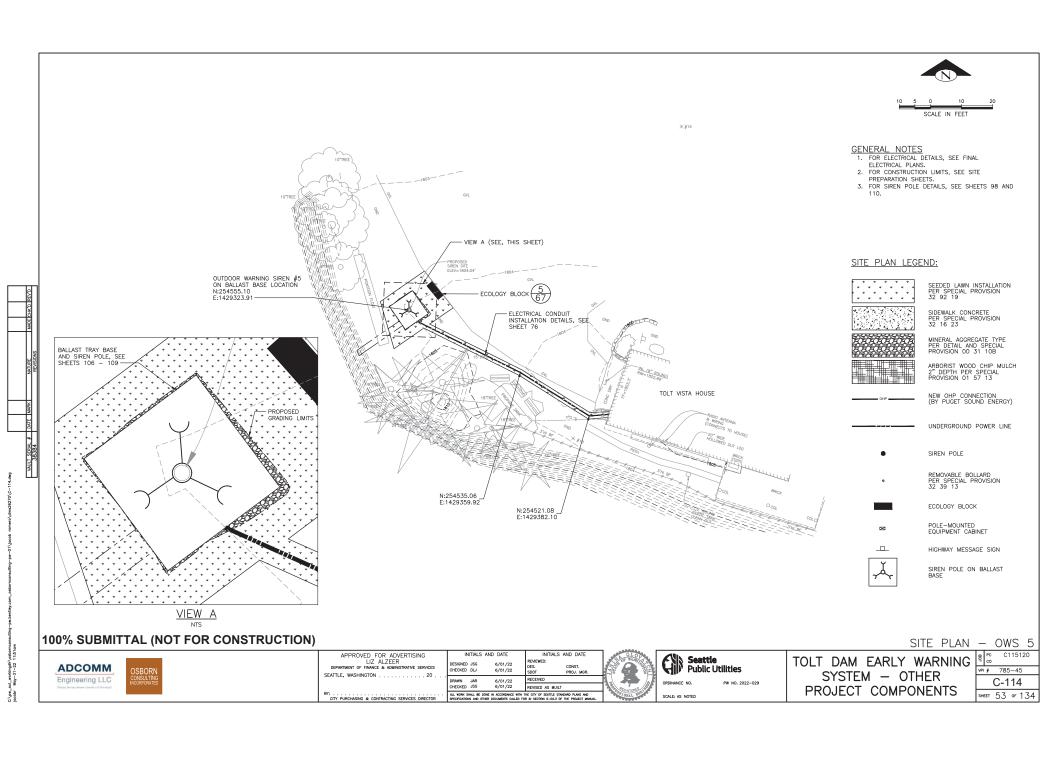
PROTECT IN PLACE EXISTING FENCE —

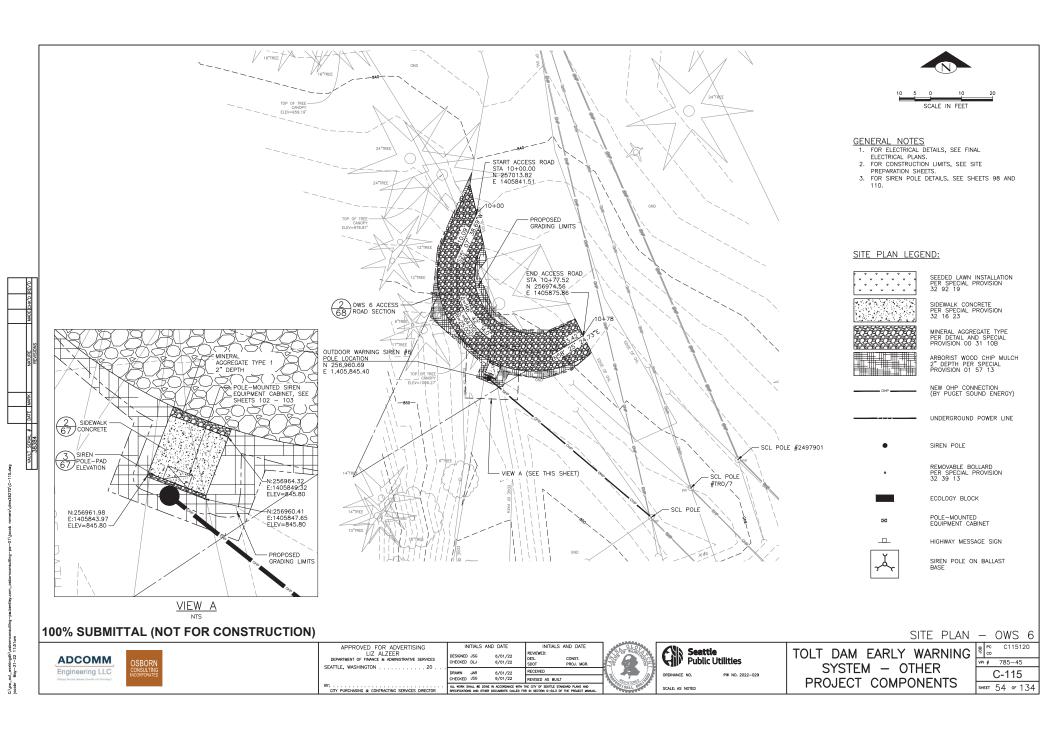
N:254577.77 E:1429330.82

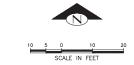
PROTECT IN PLACE





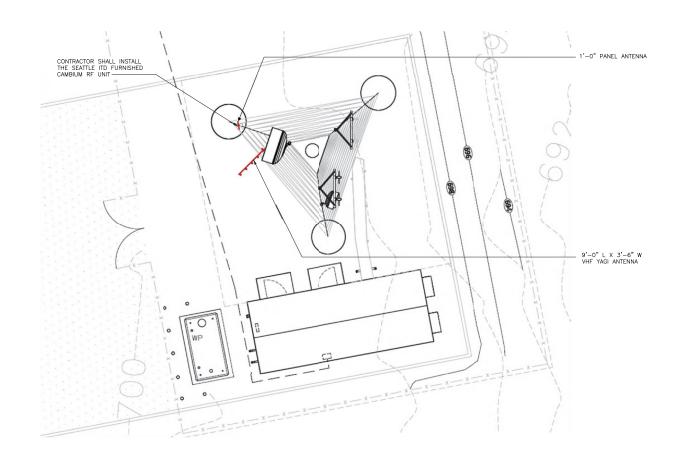






GENERAL NOTES:

 THIS DRAWING INFORMATION IS BASED ON THE PSERN SITE DRAWING SET DATED JULY 31, 2017.



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Philippy The little Defender Countries a & Technology

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INITIALS AND DATE

BESIGNED TK 6/51/22

CHEXICO 348 65/51/22

CHEXICO 34



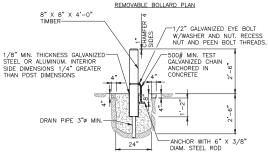
Seattle Public Utilities

ORDINANCE NO. PW NO.

TOLT DAM EARLY WARNING SYSTEM — OTHER PROJECT COMPONENTS

SITE PLAN		_	- S	WAN	
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THER			C-1	27	
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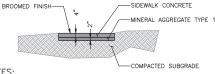


REMOVABLE BOLLARD SECTION A

NOTES:

- TIMBER SHALL BE DOUGLAS FIR, DENSE CONSTRUCTION GRADE, AND SHALL BE PRESSURE TREATED WITH A WATERBORNE PRESERVATIVE (ACA, CCA, ACZA) IN ACCORDANCE WITH THE REQUIREMENTS OF SEC. 9-09.3 (1) OF THE WSDOT/APWA STANDARD SPECIFICATIONS. TOP 5 IN. OF TIMBER SHALL
- 2. STEEL TUBE SHALL CONFORM TO ASTM A53 GRADE A.
- 3. NUTS, BOLTS, & WASHERS SHALL CONFORM TO ASTM A307.
- 4. ALL STEEL PARTS SHALL BE GALVANIZED.
- 5. CONCRETE SHALL BE CLASS 4000.

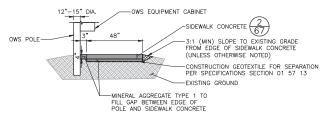




NOTES:

- 1. FOR SIDEWALK CONCRETE, SEE SPECIFICATIONS SECTION 32 16 23.
- FOR MINERAL AGGREGATE TYPE 1 GRADATION AND PLACEMENT, SEE SPECIFICATIONS SECTION 00 31 10B AND SECTION 32 11 23.
- 3. FOR SIDEWALK CONCRETE ELEVATIONS AND GRADING EXTENTS, SEE SITE PLAN SHEETS.

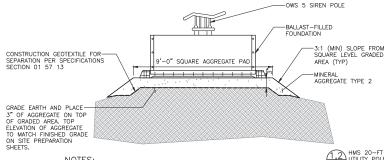




NOTES:

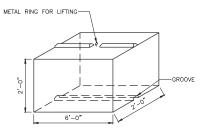
- 1. FOR OWS POLE AND EQUIPMENT CABINET DETAILS, SEE OWS SYSTEM DETAILS SHEETS 98-104.
- 2. FOR MINERAL AGGREGATE TYPE 1 GRADATION AND PLACEMENT, SEE SPECIFICATIONS SECTION 00 31 10B AND SECTION 32 11 23.
- 3. FOR SIDEWALK CONCRETE ELEVATIONS AND GRADING EXTENTS, SEE



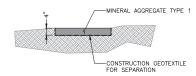


NOTES:

- PRIOR TO PLACEMENT OF MINERAL AGGREGATE, GRADE GROUND LEVEL PER ELEVATIONS AND EXTENTS SHOWN ON SITE PREPARATION SHEETS.
- 2. FOR MINERAL AGGREGATE TYPE 2 GRADATION, SEE SPECIAL PROVISION
- 3. FOR OWS 5 POLE AND FOUNDATION DETAILS, SEE SHEETS 106 109.



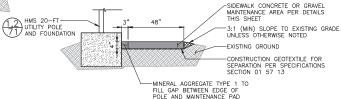




NOTES:

- 1. FOR MINERAL AGGREGATE TYPE 1 GRADATION AND PLACEMENT, SEE SPECIFICATIONS SECTION 00 31 10B AND SECTION 32 11 23.
- 2. FOR GRAVEL PAD OR PATH EXTENTS, SEE SITE PLAN SHEETS.

MAINTENANCE AREA 64, 65



PAD ELEVATION <u>57-</u>59, 62, 64-65

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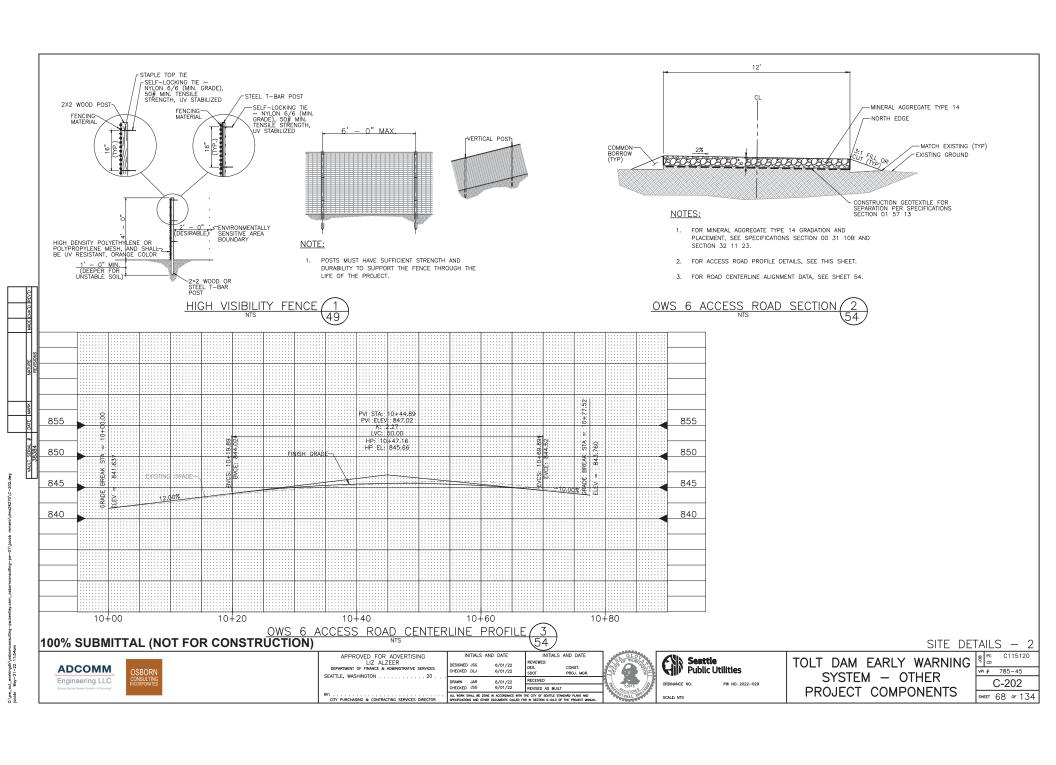


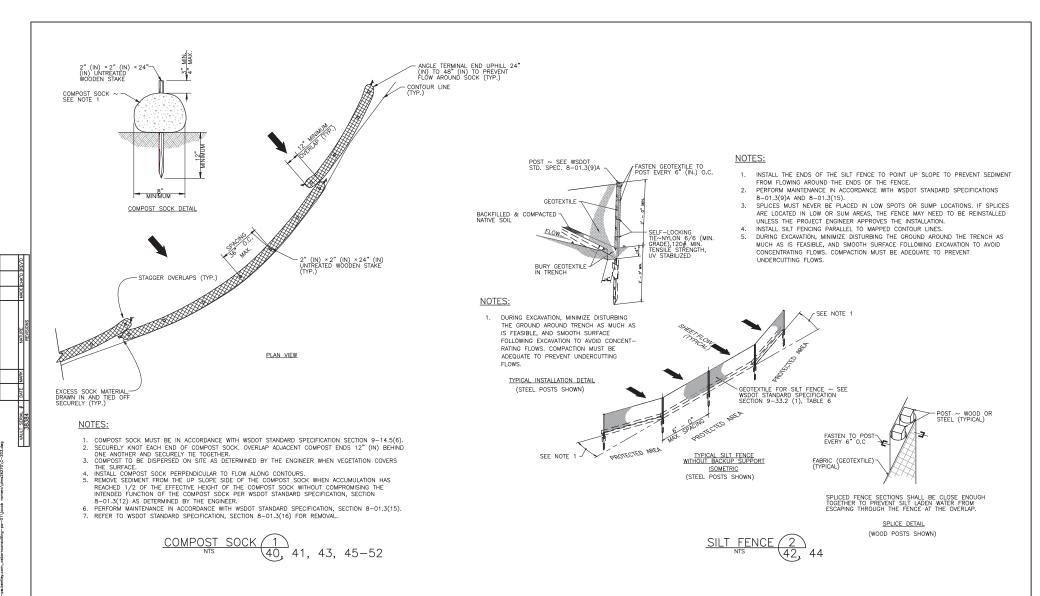
PW NO. 2022-029

TOLT DAM EARLY WARNING SYSTEM - OTHER PROJECT COMPONENTS

vPI# 785-45 C-201 SHEET 67 OF 134

SITE DETAILS - 1





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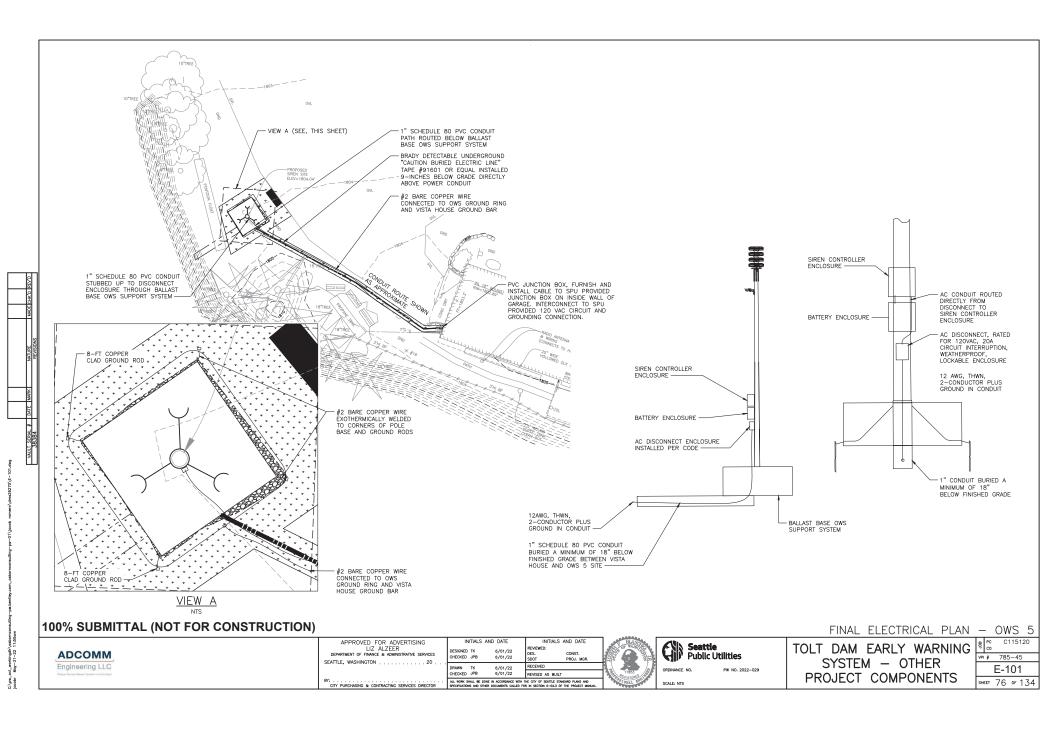


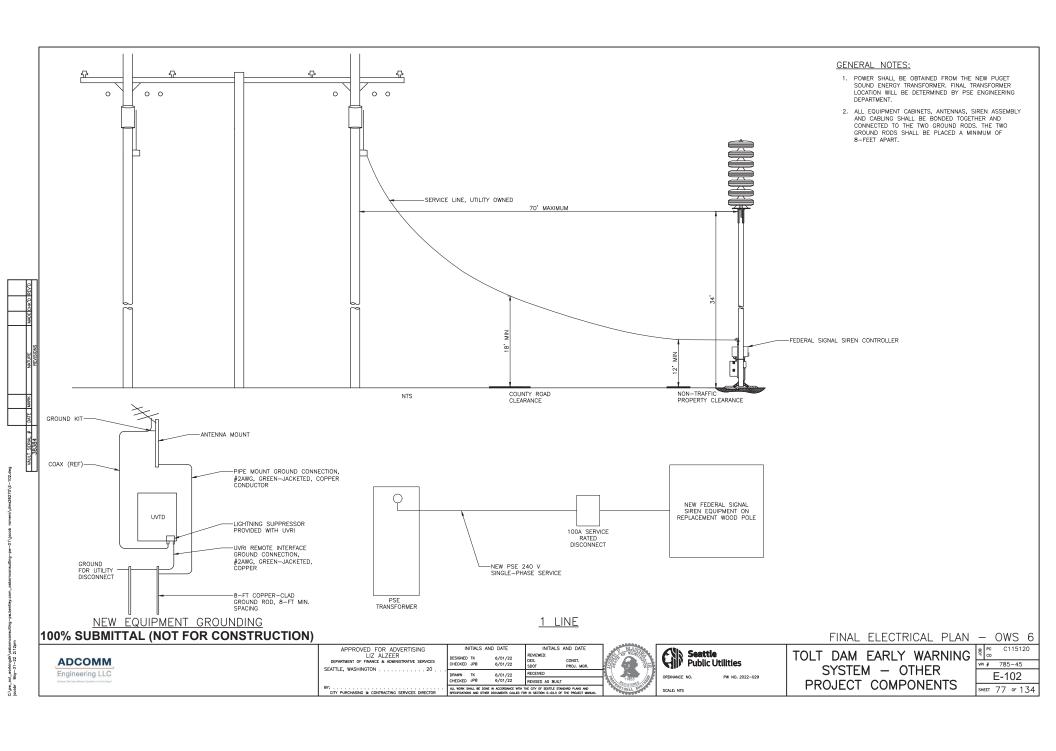
RDINANCE NO. PW NO. 20

TOLT DAM EARLY WARNING SYSTEM — OTHER PROJECT COMPONENTS

PC C115120 VPI # 785-45 C-203 SHEET 69 OF 134

SITE DETAILS - 3







-PROPANE GAS LINE AND REGULATOR IN THIS AREA. WORK WITH CAUTION. SHUT PROPANE OFF PRIOR TO ANY WORK IN THIS AREA.

-INSTALL 1" SCHD 80 PVC CONDUIT AT THIS APPROXIMATE LOCATION. COORDINATE WITH JUNCTION BOX ON INSIDE WALL.

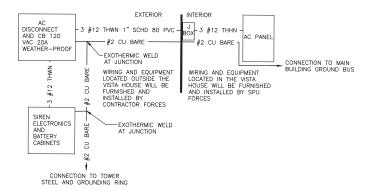


-INSTALL 1" SCHD 80
PVC CONDUIT AT THIS
APPROXIMATE LOCATION.
COORDINATE WITH LOCATION OF SPU JUNCTION BOX ON INSIDE



-INSTALL 1" SCHD 80 PVC CONDUIT AT THIS APPROXIMATE LOCATION.
ROUTE TO SPU PROVIDED
JUNCTION BOX. JUNCTION BOX.
CORDINATE WITH
LOCATION OF SPU
JUNCTION BOX ON INSIDE
WALL. INTERCONNECT THE
120 VAC CIRCUIT AND GROUNDING CONNECTION AT THIS LOCATION.

VISTA HOUSE EXTERIOR GARAGE WALL



ELECTRICAL 1-LINE DIAGRAM

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INITIALS AND DATE

6/01/22



INITIALS AND DATE

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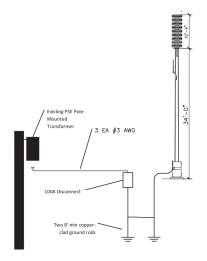
Seattle Public Utilities

PW NO. 2022-029

ELECTRICAL DETAILS - OWS 5 PC C115120 TOLT DAM EARLY WARNING

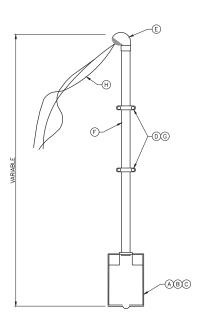
SYSTEM - OTHER PROJECT COMPONENTS vPI# 785-45 E-201 SHEET 83 OF 134

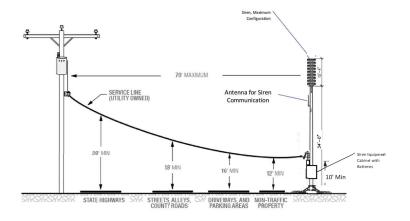




GENERAL NOTES:

- 1. EACH TEMPORARY OWS WILL HAVE A SERVICE DISCONNECT REQUIRING GROUNDING PER NEC. A MINIMUM OF TWO GROUND RODS IS REQUIRED FOR EACH SITE. NEC REQUIRES A 6-FT MINIMUM SPACING HOWEVER 16-FT MINIMUM IS REQUIRED BY THIS WORK IF THE SITE FOOTPRINT ALLOWS.
- 2. THE TEMPORARY POLE SHALL BE GROUNDED TO THE GROUND RODS.
- 3. SITES OWS 6 AND 10 ARE EXPECTED TO HAVE OVERHEAD POWER. PSE REQUIREMENTS FOR OVERHEAD POWER ARE SHOWN.





MATERIALS

- A. NEMA 3R STEEL 100A SERVICE DISCONNECT LISTED BOX
- B. 240 VAC 100A SERVICE DISCONNECT RATED BREAKERS
- C. 120 VAC 20A GFCI BREAKER TO FEED FS EQUIPMENT.
- D. GALVANIZED STEEL CLAMPS
- F. 1-1/2" GALVANIZED RMC STEEL CONDUIT
- G. GALVANIZED STEEL HARDWARE FOR CLAMPS
- H. THREE #3 CU, SE RATED 1-WHITE, 1-BLACK, AND 1-GREEN

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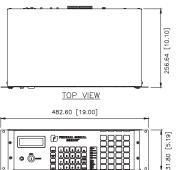


TOLT DAM EARLY WARNING SYSTEM - OTHER PROJECT COMPONENTS

ELECTRICAL DETAILS - OWS 6, 9, AND 10

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			E-2	202	2	
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FRONT VIEW



ISOMETRIC VIEW

SPECIFICATIONS LINE INPUT: BATTERY INPUT:

INPUT CURRENT: OPERATING TEMPERATURE: DISTORTION: EMPHASIS: DTMF TIMING:

DTMF DECODE SENSITIVITY: OUTPUTS:

DIMENSIONS:

WEIGHT:

GENERAL NOTES:

- 1. THE PSERN SWAN SHELTER IS LOCATED AT COORDINATES 47-42-23.6 N121-49-01.7 W.
- 2. ALL WORK AT THE SWAN SITE SHALL BE COORDINATED WITH THE SITE OWNER PRIOR TO STARTING WORK.
- 3. ALL INSTALLATION AND GROUNDING WORK SHALL COMPLY WITH MOTOROLA R56 INSTALLATION AND GROUNDING STANDARDS.
- 4. ALL EQUIPMENT SHALL BE POWERED FROM THE PSERN -48 VDC POWER SUPPLY.

-48VDC TO 12VDC CONVERTER SUPPLIED 11.5-20.0VDC

11.32-2.0.0VC (OVERVOLTAGE AND REVERSE VOLTAGE PROTECTION) 175mA STANDBY, 250mA MAX. 32° F TO 122°F O'C TO 50°C < 3% FROM PURE SINEWAVE

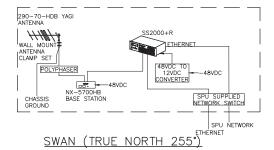
OPTIONAL DE-EMPHASIS 6DB/OCTAVE 3-20 DIGITS

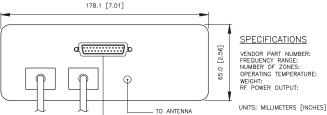
35/5 TO 999/999 MILLISECONDS (DIGIT LENGTH/INTERDIGIT SILENCE)

80-CHARACTER LCD DISPLAY (4 LINES X 20)

200B SIGNAL/NOISE
3-DPDT (PTT, AUDIO AND MIC DISCONNECT, SPARE)
1.25A AT 24VDC
0.4 AT 120VAC

RACKMOUNT 19.0" X 10.1" X 5.2" (482.6mm X 256.5mm X 131.8mm) RACKMOUNT 6.5 lbs./3.0 kg





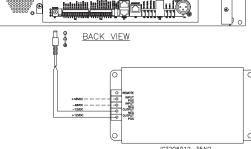
SPECIFICATIONS

VENDOR PART NUMBER: FREQUENCY RANGE: NUMBER OF ZONES: OPERATING TEMPERATURE: RF POWER OUTPUT:

BASE STATION RADIO

136-174MHz 128 -22°F TO +140°F (-30°C TO +60°C) 5.5kg (12.1lbs) 110W TO 25W

KENWOOD NX-5700HB



ICT206012-35AI2 48VDC TO 12VDC POWER CONVERTER

CONNECTIONS:
J1 — PRINTER PORT
J2 — SERIAL PORT — COM 2
J3 — SERIAL PORT — COM 1
J5 — DC POWER IN
J6 — LOCAL MIC INPUT
J10 — EVERTANAL IZC PORT
J10 — PROGRAMMING/FLA
P2 — LINE LEVEL INPUTS
93 — BALANCED MIC INPUT
J11 — ETHERNET PORT
J11 — ETHERNET PORT
J12 — TRANSCEIVER INTERFACE

P1 LOWER - PROGRAMMING/FLASH PORT

SS2000 R RACKMOUNT CONTROLLER

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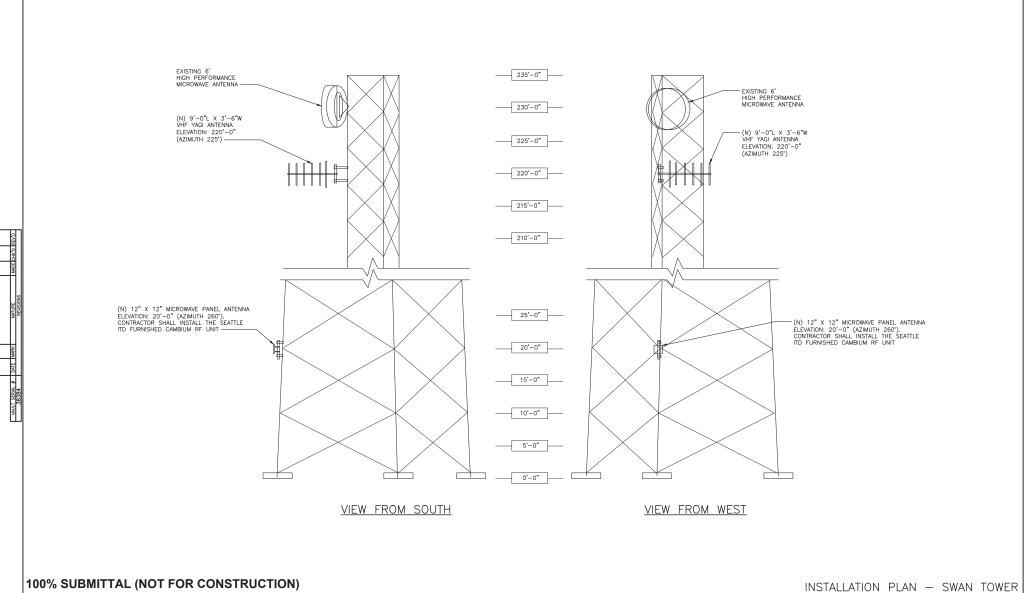




TOLT DAM EARLY WARNING SYSTEM - OTHER PROJECT COMPONENTS

vPI# 785-45 T-102 SHEET 87 OF 134

INSTALLATION PLAN - SWAN



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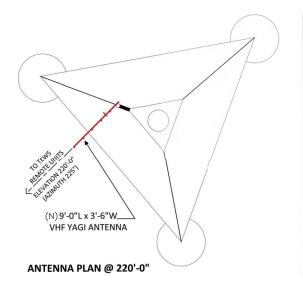
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TOLT DAM EARLY WARNING SYSTEM - OTHER PROJECT COMPONENTS

vPI# 785-45 T-103 SHEET 88 OF 134

NOTE: REFER TO YAGI AND PANEL ANTENNA MOUNTING DETAILS DRAWINGS FOR TOWER-TO-MOUNT AND MOUNT-TO-ANTENNA HARDWARE ASSEMBLY INFORMATION.



ANTENNA / COAX SCHEDULE										
RAD CENTER	PATH	MOUNTING HEIGHT	AZIMUTH	TOWER LEG	QTY.	DESCRIPTION	COAX	COAX LENGTH		
230'-0"	RING HILL	-	288*	NW	1	6' HIGH PERFORMANCE MICROWAVE ANTENNA	EW63	±265'		
100'-0"	TOLT	-	110	SE	1	3' HIGH PERFORMANCE MICROWAVE ANTENNA	EW90	±135'		
	TEWS VHF	220'-0"	225°	NW	1	9'-0" x 3'-6" VHF YAGI ANTENNA	LDF5-50A	±275'		
-	-	170'-0"	90°	NE	2	18'-0" ENCLOSED DIPOLE RX ANTENNAS	AVA5-50FX	±205'		
20'-0"	WTR FLTRTN BLDG	20'-0"	260°	NW	1	1'-0" MICROWAVE ANTENNA	OSP CATSE	±75'		
-	-	150'-0"	90°	SE	2	4'-5" ENCLOSED DIPOLE TX ANTENNA	AVA5-50FX	±185'		

PROVIDE (1) DUAL DIVERSITY TOWER TOP AMPLIFIER SYSTEM.

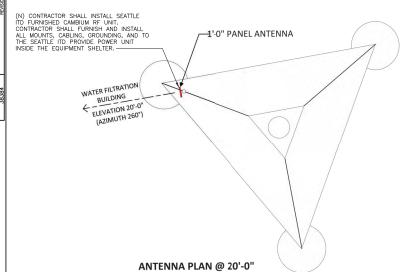
SYSTEM SHALL INCLUDE: (1) DUAL DIVERSITY TOWER TOP AMPLIFIER (TTA).

(4) 7/8" COAXIAL CABLES (2 LINES ARE JUMPERS FROM THE TTA TO ANTENNAS)

(1) 1/2" COAXIAL CABLE (FSJ4-50B).

GENERAL NOTES:

- 1. VERIFY EACH COAXIAL CABLE LENGTH, DIAMETER, ROUTING, AND ALL MOUNTING APPURTENANCES WITH OWNER PRIOR TO ORDER.
- 2. THE MAXIMUM COAXIAL CABLE LENGTH HAS BEEN ESTIMATED IN THE TABLE ABOVE. THIS CABLE LENGTH IS APPROXIMATE AND IS TO BE USED FOR CONSTRUCTION. ACTUAL ANTENNA CABLE LENGTHS MAY VARY FROM ESTIMATED MAXIMUM LENGTH AND MUST BE
- 3. TAG ALL MAIN CABLES AT THREE (3) LOCATIONS:
 - A ANTENNAS
 - B WAVEGUIDE ENTRY PORT
 - C EQUIPMENT CABINET
- 4. EACH COAX SHALL BE GROUNDED AT (3) THREE LOCATIONS: ANTENNA, TOWER BASE AND BUILDING ENTRY PORT.





100% SUBMITTAL (NOT FOR CONSTRUCTION)

ADCOMM Engineering LLC

APPROVED FOR ADVERTISING
LIZ ALZEER
DEPARTMENT OF FINANCE & ADMINISTRATIVE SERVICES

CITY PURCHASING & CONTRACTING SERVICES DIRECTOR

INITIALS AND DATE INITIALS AND DATE EVIEWED: 6/01/22 CHECKED JPB 6/01/22 6/01/22 6/01/22 RECEIVED DRAWN TK CHECKED JPB REVISED AS BUILT

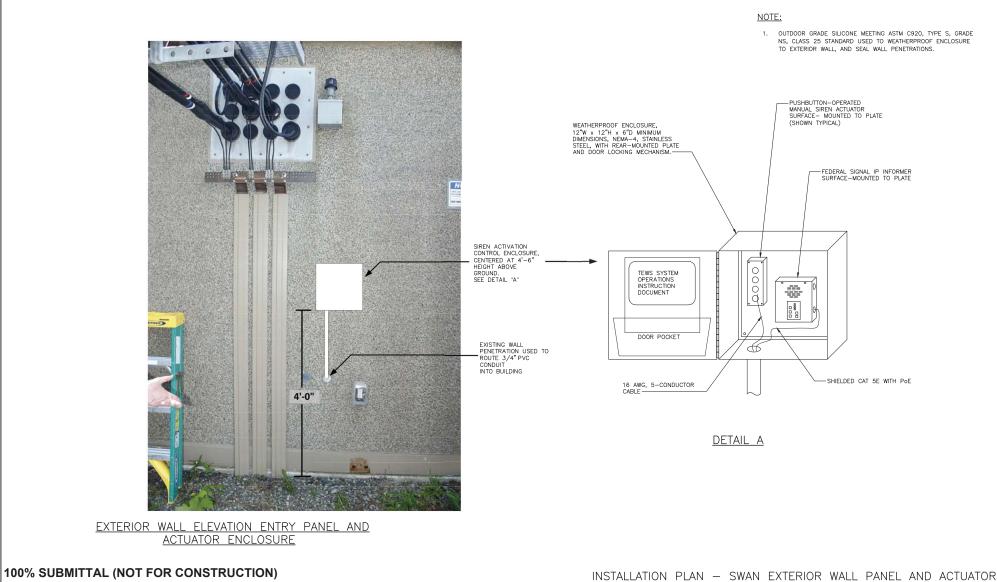




INSTALLATION PLAN - SWAN ANTENNA TOLT DAM EARLY WARNING SYSTEM - OTHER

PROJECT COMPONENTS

3	900	PC CO	С	115	120	
	VPI #		785-45			
	T-104					
	SHI	EET	89	OF	134	



INITIALS AND DATE

EVIEWED:

REVISED AS BUILT

Seattle Public Utilities

PW NO. 2022-029

TOLT DAM EARLY WARNING

SYSTEM - OTHER

PROJECT COMPONENTS

vPI# 785-45

T-105

SHEET 90 OF 134

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SEATTLE, WASHINGTON 20 .

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INITIALS AND DATE

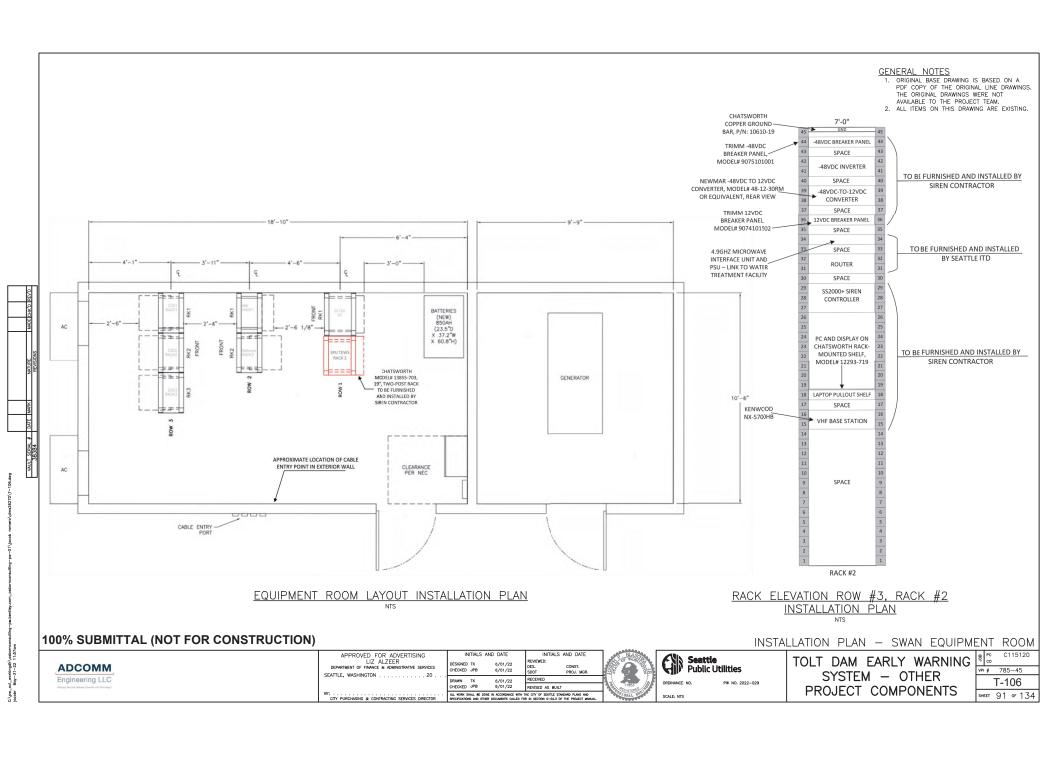
ALL WORK SHALL BE DONE IN ACCORDANCE WITH SPECIFICATIONS AND OTHER DOCUMENTS CALLED I

CHECKED JPB

DRAWN TK CHECKED JPB 6/01/22

6/01/22

6/01/22 6/01/22





7/8" COAXIAL CABLE PATH -USE SITEPRO1 SR78-K CUSHION HANGERS AND ADAP-O ANGLE ADAPTERS WITH 36" MAXIMUM SPACING FOR HORIZONTAL RUN AT TOP

OUTDOOR CABLE ROUTING PLAN VIEW

7/8" VHF COAXIAL CABLE SUPPORTED WITH SITEPRO1 SR78-K CUSHION HANGERS OR **EQUIVALENT AT 36" MAXIMUM** SPACING ON TOWER CABLE

0.36" CATSE CABLE SUPPORTED ON SITEPRO1 ADP238-U ADJUSTABLE PIPE ANTENNA MOUNT USING SITEPRO SR38-K CUSHION HANGERS AND STK2 STANDOFF KITS OR EQUIVALENT

0.36" CATSE CABLE

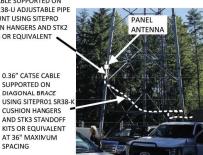
CUSHION HANGERS

AND STK3 STANDOFF

KITS OR EQUIVALENT

AT 36" MAXINUM SPACING

SUPPORTED ON DIAGONAL BRACE



UPPER TOWER SOUTHWEST-FACE VIEW

YAGI ANTENNA

SUPPORTED WITH SITEPRO1 SR38-K **CUSHION HANGERS** AND ADAP-O ANGLE ADAPTERS OR EQUIVALENT AT 36" MAXIMUM SPACING ON TOWER HORIZONTAL CROSS-MEMBER

0.36" CAT5E CABLE



TOWER EAST-FACE VIEW, ICE BRIDGE INTERFACE

0.36" CATSE CABLE AND 7/8" VHF COAXIAL CABLE SUPPORTED WITH SITEPRO1 CIN3878 BARREL CUSHIONS AND SR782-K CUSHION HANGERS OR EQUIVALENT AT 36" MAXIMUM SPACING ON ICE BRIDGE

TOWER AND ICE BRIDGE RF AND SIGNAL CABLE ROUTING DETAILS

100% SUBMITTAL (NOT FOR CONSTRUCTION)

ADCOMM Engineering LLC

DEPARTMENT OF FINANCE & ADMINISTRATIVE SERVICES SEATTLE, WASHINGTON 20 CITY PURCHASING & CONTRACTING SERVICES DIRECTOR

INITIALS AND DATE INITIALS AND DATE 6/01/22 6/01/22 6/01/22 6/01/22 REVISED AS BUILT





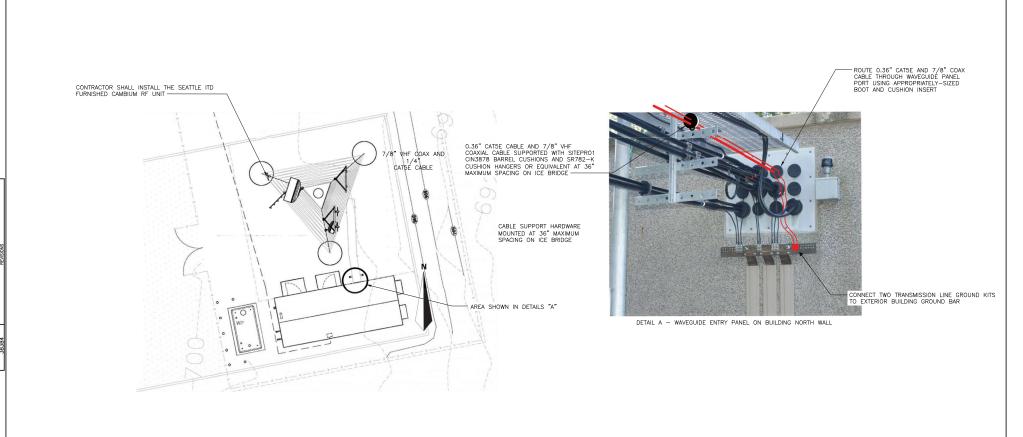
TOLT DAM EARLY WARNING SYSTEM - OTHER

VPI # 785-45 T-107 SHEET 92 OF 134

INSTALLATION PLAN - SWAN TOWER CABLE ROUTING

LOWER TOWER SOUTHWEST-FACE VIEW

PROJECT COMPONENTS



COMMUNICATIONS BUILDING EXTERIOR RF AND SIGNAL CABLE ROUTING DETAILS

100% SUBMITTAL (NOT FOR CONSTRUCTION)

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DEPARTMENT OF FINANCE & ADMINISTRATIVE SERVICES INITIALS AND DATE CHECKED JPB SEATTLE, WASHINGTON 20 . DRAWN TK CHECKED JPB

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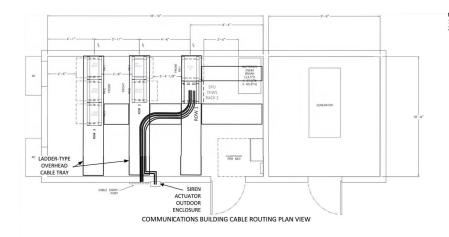
Seattle Public Utilities

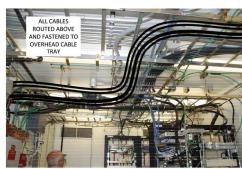
INSTALLATION PLAN - SWAN BUILDING EXTERIOR CABLE ROUTING TOLT DAM EARLY WARNING SYSTEM — OTHER

PROJECT COMPONENTS

vPI# 785-45 T-108 SHEET 93 OF 134

ADCOMM Engineering LLC



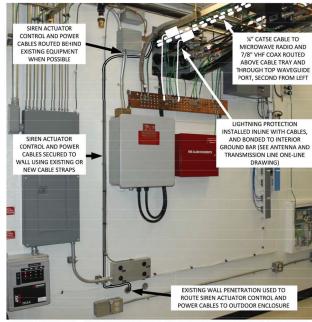


VIEW OF CABLE TRAY FACING EAST - CABLE PATH FROM NORTH WALL TO RACK 2, ROW 1



2. ROW 1 POSITION OUTLINED

1) OUTDOOR GRADE SILICONE SEALANT MEETING ASTM C920, TYPE S, GRADE NS, CLASS 25 STANDARD USED TO SEAL WALL PENETRATION



INTERIOR NORTH WALL - WAVEGUIDE ENTRY PANEL AND SIREN ACTUATOR CABLE WALL PENETRATION

COMMUNICATIONS BUILDING INTERIOR RF AND SIGNAL CABLE ROUTING DETAILS

100% SUBMITTAL (NOT FOR CONSTRUCTION)

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INITIALS AND DATE INITIALS AND DATE 6/01/22 CHECKED JPB 6/01/22 6/01/22 6/01/22 REVISED AS BUILT

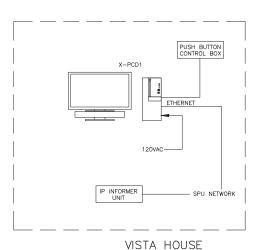


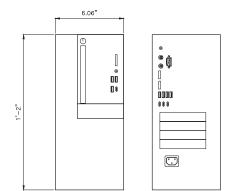
Seattle
Public Utilities

TOLT DAM EARLY WARNING SYSTEM - OTHER PROJECT COMPONENTS

INSTALLATION PLAN - SWAN BUILDING INTERIOR CABLE ROUTING VPI # 785-45 T-109 SHEET 94 OF 134







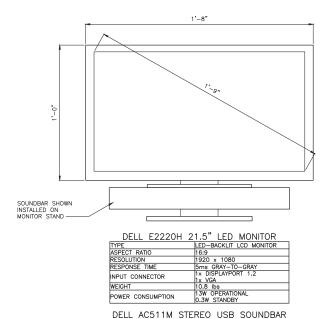
FRONT VIEW REAR VIEW DELL OPTIPLEX XE3 TOWER XCTO PC

OPERATING SYSTEM	WINDOWS 10 PROFESSIONAL 64
MEMORY	16GB 2X8GB 2666MHz DDR4
HARD DRIVE	500GB 7200rpm SATA
PROCESSOR	INTEL CORE 15-8500 (6 CORES/9MB/6T/UP TO 4.1GHz/65W)
DISK DRIVE	8x DVD-ROM 9.5mm OPTICAL
PORTS	1x SD 3 CARD READER (OPTIONAL) 1x HEADSET CONNECTOR 2x USB 3.1 GEN 1
WIRED KEYBOARD	INCLUDED
WIRED MOUSE	INCLUDED
WEIGHT	17.49 lbs

UNITS: INCHES

GENERAL NOTES:

- 1. THE VISTA HOUSE IS LOCATED AT THE TOLT DAM. THE SITE COORDINATES ARE 47-41-.4 N121-41-24.4 W.
- 2. THE CONTROLLER SHALL BE CONNECTED TO THE SPU DATA NETWORK LOCATED AT THE VISTA HOUSE.
- THE CONTROLLER SHALL INCLUDE THE MANUAL PUSH BUTTON ACTUATION AS PROVIDED FOR THE WOCC AND THE NOC.
- 4. THE CONTROLLER SHALL BE RACK MOUNTED ON CONTRACTOR SUPPLIED RACK MOUNTING SHELVES IN THE SPU PROVIDED EQUIPMENT RACK ASSEMBLY.



AMPLIFICATION TYPE
NOMINAL OUTPUT POWER
FREQUENCY RESPONSE

CONNECTOR TYPES
POWER SOURCE
WEIGHT

X-PCD1 DESKMOUNT PC W/MONITOR

100% SUBMITTAL (NOT FOR CONSTRUCTION)

ADCOMM
Engineering LLC

INITIALS AND DATE

DESIGND TK (9/1/22
CHECKED JPP 6/9/1/22
DDANN TK (9/1/22
DDANN TK (9/1/22
DESIGND JPD 6/9/1/22





RDINANCE NO. PW NO. 2022-

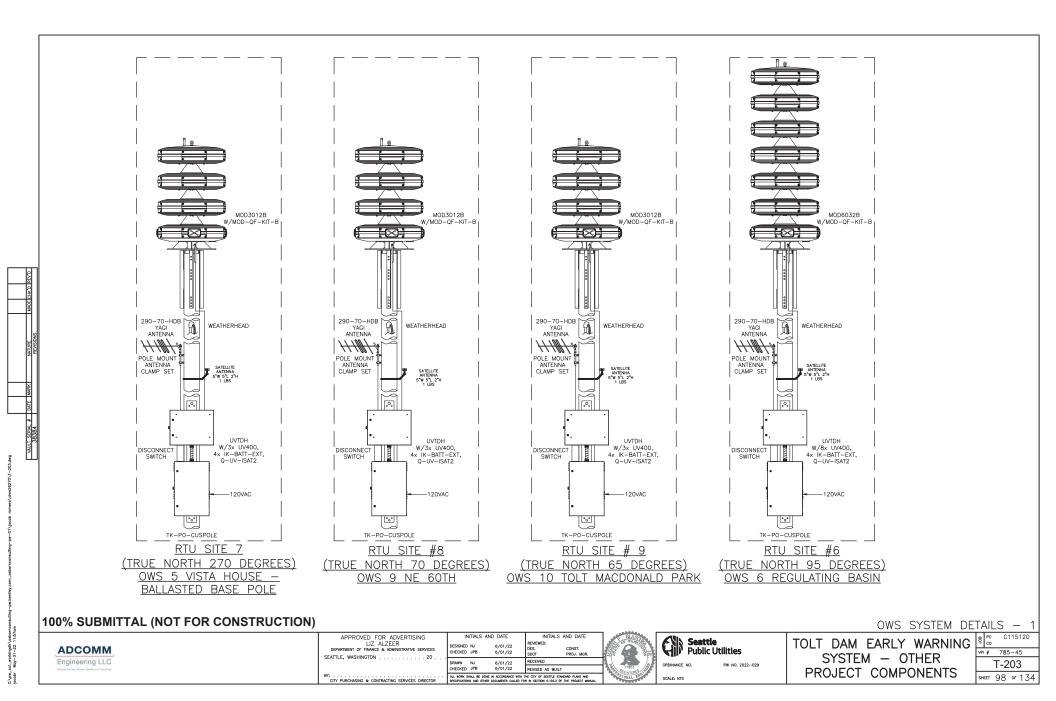
INSTALLATION PLAN — VISTA HOUSE

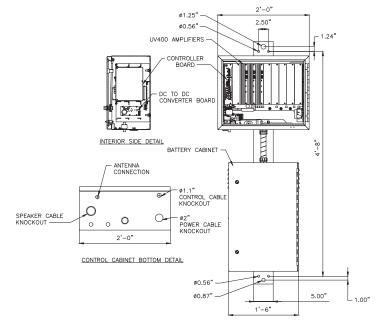
TOLT DAM EARLY WARNING SYSTEM — OTHER PROJECT COMPONENTS

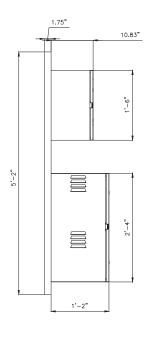
ACTIVE

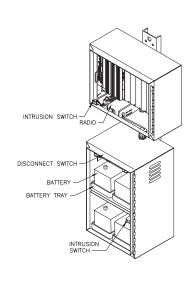
100Hz - 20kHz 3.5mm HEADPHONES USB 2.0 3.5mm AUDIO LINE IN (STEREO)

,	ુ ∞	
	VPI #	785-45
		T-110
	SHEET	95 of 134









SPECIFICATIONS

POWER

INPUT VOLTAGE: 120V±10%

50 / 60 HZ SINGLE-PHASE

24 VOLTS (NOM.)

24VDC > 7 DAYS

30 MIN.

INPUT CURRENT: BATTERY INPUT VOLTAGE: OPERATING VOLTAGE: STANDBY TIME: CONTINUOUS TIME:

CONTROL MODULE

SIGNAL DURATION (AUTO RESET): 3 MIN. MAX

MICROPHONE INPUT IMPEDANCE:

1% THD MAX. 600 OHMS

AUDIO DISTORTION: MAXIMUM LOAD: (MIN) 500MS<2K OHMS CONTACT CLOSURE:

AMPLIFIER MODULE

AMPLIFIER MOUDLIG CONTROL HOUSING CAN HAVE UP TO EIGHT 400W AMPLIFIERS FREQUENCY RESPONSE: (300 TO 3 KH2) ±3DB (REF. 1KH2) OUTPUT VOLTAGE (TONE AND PA): (TO SPEAKER DRIVERS) 70 VRM (NOM.)

INPUT IMPEDANCE: (PER AMPLIFIER) 100K OHMS

GENERAL

OPERATING TEMPERATURE**: -22°F TO 149°F

ENCLOSURES: ALUMINUM

CONTROL CABINET: BATTERY CABINET: TYPE 4 OR 4X
TYPE 4 (VENTED, LOUVERS TO BE SCREENED TO PREVENT INSECT INSTRUSION)

**THE SIREN CAN OPERATE THROUGHOUT THIS TEMPERATURE RANGE PROVIDED THE BATTERY TEMPERATURE IS MAINTAINED AT 0'F OR HIGHER.

BATTERIES

QTY. 4, 12 VOLT HD COMMERCIAL BATTERIES:

MAINTENANCE FREE LEAD-ACID DEEP-CYCLE RECHARGEABLE

WEIGHTS (APPROX)

UV400 4.12 LBS.

CABINETS W/BATTERIES 170 LBS. TOTAL WEIGHT: 202.96 LBS.

UVTD DIGITAL SIREN CONTROLLER DIAGRAM FOR OWS SITES #5, 9, 10

100% SUBMITTAL (NOT FOR CONSTRUCTION)

APPROVED FOR ADVERTISING LIZ ALZEER INITIALS AND DATE INITIALS AND DATE EVIEWED: 6/01/22 DEPARTMENT OF FINANCE & ADMINISTRATIVE SERVICES CHECKED JPB 6/01/22 SEATTLE, WASHINGTON 20 RECEIVED DRAWN NJ CHECKED JPB 6/01/22 6/01/22 REVISED AS BUILT CITY PURCHASING & CONTRACTING SERVICES DIRECTOR





TOLT DAM EARLY WARNING SYSTEM - OTHER PROJECT COMPONENTS

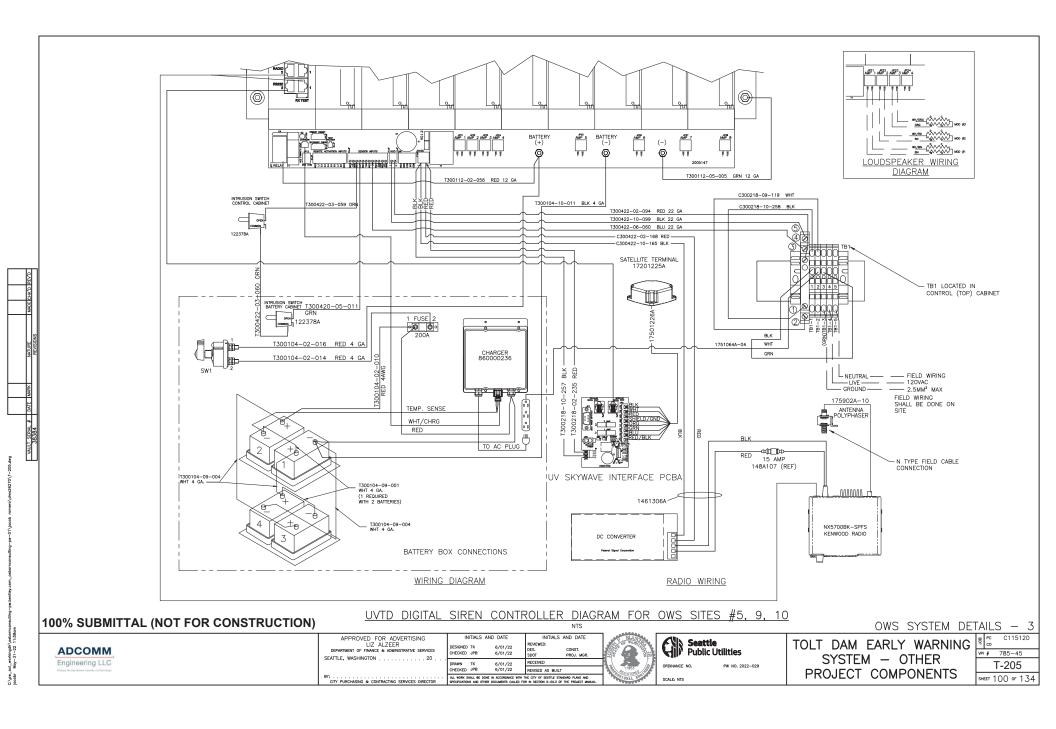
vPI# 785-45 T-204 SHEET 99 OF 134

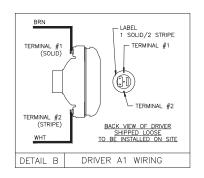
OWS SYSTEM DETAILS - 2

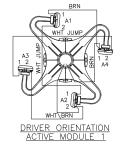
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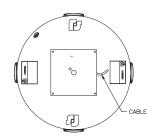
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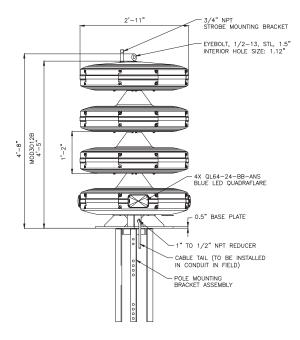


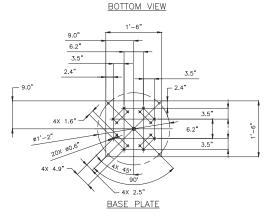






ACTIVE MODULE	SPEAKER CABLE	DRIVER - TERMINAL	JUMPER WIRE	DRIVER — TERMINAL	LIGHT
	PNK				BOTTOM MOUNT +
	BLK				BOTTOM MOUNT -
		A1 - 2	WHT	A2 - 1	
1	WHT/BRN	A2 - 2	WHT/BRN	A3 - 2	
'		A3 - 1	WHT	A4 - 2	
	BRN	A4 - 1	BRN	A1 - 1	
		B1 - 2		B2 - 1	
2	WHT/RED	B2 - 2	WHT/RED	B3 - 2	
		B3 - 1	WHT	B4 - 2	
	RED	B4 - 1	RED	B1 - 1	
		C1 - 2	WHT	C2 - 1	
3	WHT/ORG	C2 - 2	WHT/ORG	C3 - 2	
]		C3 - 1	WHT	C4 - 2	
	ORG	C4 - 1	ORG	C1 - 1	
	RED/WHT				TOP MOUNT +
	RED/BLK				TOP MOUNT -





SPECIFICATIONS 1200 WATTS 115 dBC @ 100' 115 dBC @ 100' EFFECTIVE RANGE @ 70 dBc: 2,200' WEIGHT: 255 lbs HEIGHT: 57.0 PAINTED POWDER COAT OFF—WHITE FREQUENCY RESPONSE 200-2kHz 40' MIN. CABLE TAIL FACTORY INSTALLED

CABLE SPECIFICATIONS
CONDUCTOR SIZE: 1
NUMBER OF CONDUCTORS: 1
CONDUCTOR MATERIAL: P 14 AWG
S: 10 COND.
PVC, 105'C
25.4 [1.00] ±10% (NOM)
2.7 OHM PER 1000'
ESS: 0.016" CABLE O.D.: RESISTANCE: VINYL INSULATION THICKNESS: JACKET COLOR: GREY 0.016"

100% SUBMITTAL (NOT FOR CONSTRUCTION)

APPROVED FOR ADVERTISING
LIZ ALZEER
DEPARTMENT OF FINANCE & ADMINISTRATIVE SERVICES INITIALS AND DATE 6/01/22 SEATTLE, WASHINGTON 20

CHECKED JPB 6/01/22 6/01/22 6/01/22 DRAWN TK CHECKED JPB REVISED AS BUILT ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE SPECIFICATIONS AND OTHER DOCUMENTS CALLED FOR





PW NO. 2022-029

TOLT DAM EARLY WARNING SYSTEM - OTHER PROJECT COMPONENTS

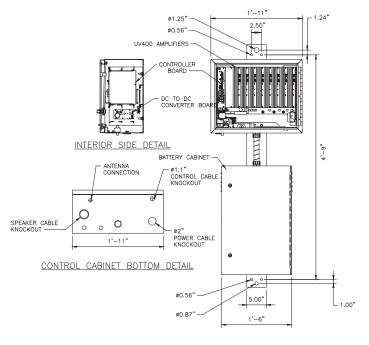
OWS SYSTEM DETAILS - 4 vPI# 785-45 T-206 SHEET 101 OF 134

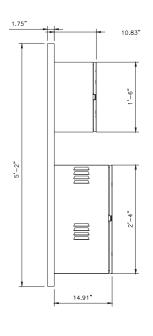
ADCOMM Engineering LLC

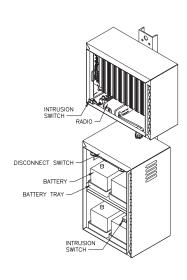
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INITIALS AND DATE EVIEWED:

MOD3012B OMNI-DIRECTIONAL SIREN G.A.







SPECIFICATIONS

POWER

INPUT VOLTAGE:

120V±10% 50 / 60 HZ SINGLE-PHASE

10K OHMS

INPUT CURRENT: 4 A MAX. BATTERY INPUT VOLTAGE: OPERATING VOLTAGE: STANDBY TIME: 24 VOLTS (NOM.) 24VDC 7 DAYS

CONTINUOUS TIME: CONTROL MODULE

SIGNAL DURATION (AUTO RESET): 3 MIN. MAX

MICROPHONE INPUT IMPEDANCE:

AUDIO DISTORTION:

MAXIMUM LOAD: CONTACT CLOSURE:

1% THD MAX. 600 OHMS (MIN) 500MS<2K OHMS AMPLIFIER MODULE

CONTROL HOUSING CAN HAVE UP TO EIGHT 400W AMPLIFIERS

FREQUENCY RESPONSE: (300 TO 3 KHZ) ±3DB (REF. 1) (TO SPEAKER DRIVERS) 70 VRM (NOM.) ±3DB (REF. 1KHZ)

OUTPUT VOLTAGE (TONE AND PA):

(PER AMPLIFIER) 100K OHMS INPUT IMPEDANCE:

GENERAL

OPERATING TEMPERATURE**: -22°F TO 149°F ENCLOSURES: CONTROL CABINET: ALUMINUM TYPE 4 OR 4X

TYPE 4 (VENTED, LOUVERS TO BE SCREENED TO BATTERY CABINET:

PREVENT INSECT INSTRUSION)

**THE SIREN CAN OPERATE THROUGHOUT THIS TEMPERATURE RANGE PROVIDED THE BATTERY TEMPERATURE IS MAINTAINED AT 0°F OR HIGHER.

BATTERIES

QTY. 4, 12 VOLT HD COMMERCIAL BATTERIES:

MAINTENANCE FREE LEAD-ACID DEEP-CYCLE RECHARGEABLE

WEIGHTS (APPROX)

UV400 4.12 LBS. EACH

CABINETS W/BATTERIES 170 LBS.

TOTAL WEIGHT: 202.96 LBS.

UVTD DIGITAL SIREN CONTROLLER FOR OWS SITE #6

100% SUBMITTAL (NOT FOR CONSTRUCTION)

APPROVED FOR ADVERTISING LIZ ALZEER INITIALS AND DATE INITIALS AND DATE EVIEWED: 6/01/22 DEPARTMENT OF FINANCE & ADMINISTRATIVE SERVICES CHECKED JPB 6/01/22 SEATTLE, WASHINGTON 20 DRAWN TK CHECKED JPB 6/01/22 6/01/22 REVISED AS BUILT ALL WORK SHALL BE DONE IN ACCORDANCE BY:

CITY PURCHASING & CONTRACTING SERVICES DIRECTOR





PW NO. 2022-029

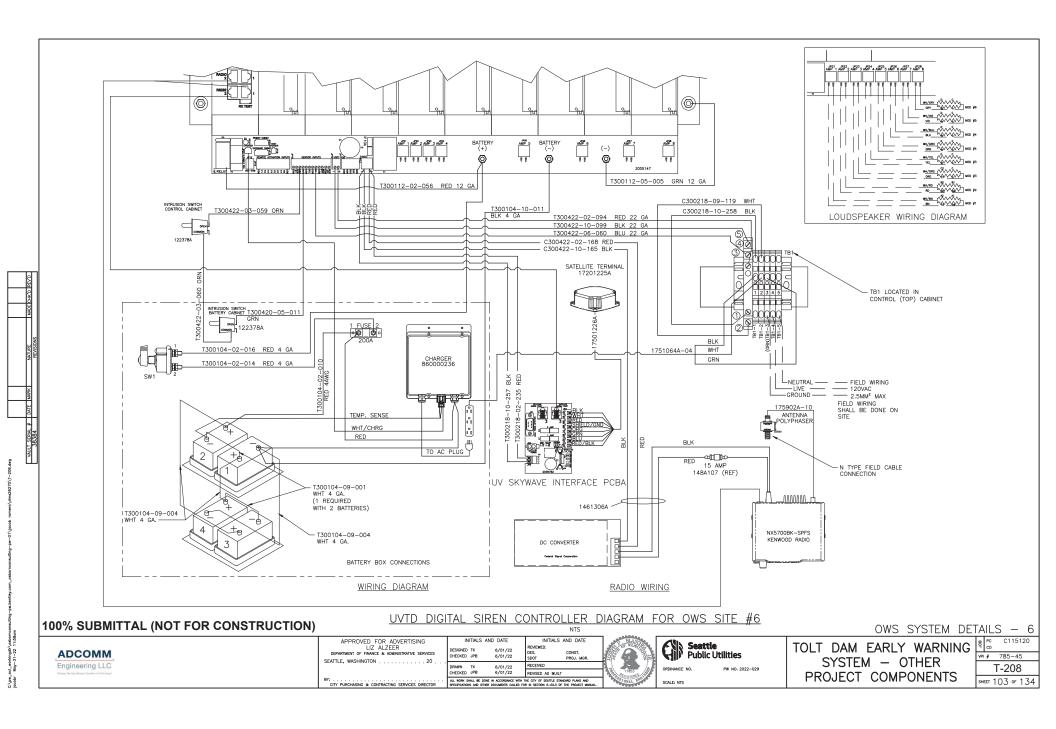
TOLT DAM EARLY WARNING SYSTEM - OTHER PROJECT COMPONENTS

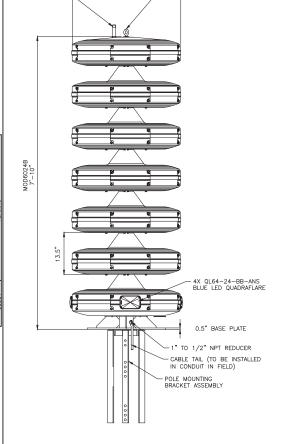
OWS SYSTEM DETAILS - 5 vPI # 785-45 T-207 SHEET 102 OF 134

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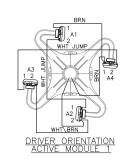
2'-10"

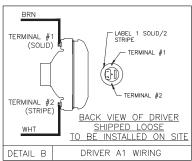
3/4" NPT STROBE MOUNTING

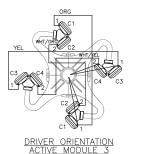
BRACKET

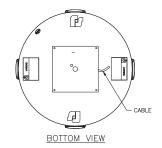
EYEBOLT, 1/2-13, STL, 1,5"

INTERIOR HOLE SIZE: 1.12"









	1'-6"
9.0"	
6.2"	
3.5"	
2.4"	3.5"
	2.4"
4X 1.6" =	
9.0"	3.5"
	6.2"
ø1'-11" 20X Ø1'	
	3.5"
4X 2.5"	
4X 4.9" —	4x 45.
× >	90'
×	
	BASE PLATE

WHT/BRN A2 - 2 WHT/BRN A3 - 2 A3 - 1 WHT A4 - 2 BRN BRN WHT B2 - 1 B2 - 2 WHT/RED B3 - 2 B3 - 1 WHT B4 - 2 RED B4 - 1 RED B1 - 1 ORG C1 - 1 WHT/ORG C2 - 2 C3 - 1 WHT/YEL C4 - 2 GRN D1 - 1 WHT/GRN D2 - 2 BLU D3 - 1 WHT/BLU D4 - 2 E1 - 2 WHT E2 - 1 WHT/VIO E2 - 2 WHT/GRN E3 - 2 E3 - 1 WHT E4 - 2 VIO F4 - 1 VIO F1 - 2 WHT F2 - 1 WHT/GRY F2 - 2 WHT/GRY F3 - 2 F3 - 1 WHT F4 - 2 GRY GRY F1 - 1 F4 - 1 RED/WHT TOP MOUNT + RED/BLK TOP MOUNT -

JUMPER

A1 - 2 WHT A2 - 1

BOTTOM MOUNT +

SPECIFICATIONS

PNK

BLK

3200 WATTS 123 DBC @ 100' EFFECTIVE RANGE @ 70 DBC: 3,400' WEIGHT: 450 LBS HEIGHT: 101.0" PAINTED POWDER COAT OFF-WHITE FREQUENCY RESPONSE 200-2KHZ 40' MIN. CABLE TAIL FACTORY INSTALLED

CABLE SPECIFICATIONS
CONDUCTOR SIZE:
NUMBER OF CONDUCTORS:
CONDUCTOR MATERIAL: CABLE O.D.: RESISTANCE: VINYL INSULATION THICKNESS: JACKET COLOR:

14 AWG 16 COND. PVC, 105°C 1.00" ±10% (NOM) 2.7 OHM PER 1000' 0.016"

OWS SYSTEM DETAILS - 7

MOD6032B OMNI-DIRECTIONAL SIREN G.A.

100% SUBMITTAL (NOT FOR CONSTRUCTION)

ADCOMM Engineering LLC

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APPROVED FOR ADVERTISING LIZ ALZEER DEPARTMENT OF FINANCE & ADMINISTRATIVE SERVICES SEATTLE, WASHINGTON 20 BY: CITY PURCHASING & CONTRACTING SERVICES DIRECTOR

INITIALS AND DATE INITIALS AND DATE EVIEWED: 6/01/22 CHECKED JPB 6/01/22 DRAWN TK CHECKED JPB 6/01/22 6/01/22 REVISED AS BUILT ALL WORK SHALL BE DONE IN ACCORDANCE WITH

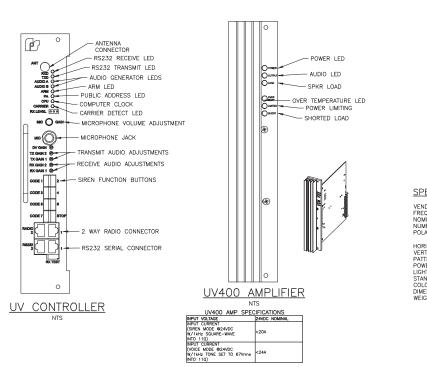


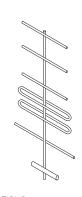


PW NO. 2022-029

TOLT DAM EARLY WARNING SYSTEM - OTHER PROJECT COMPONENTS

vPI # 785-45 T-209 SHEET 104 OF 134





SPECIFICATIONS

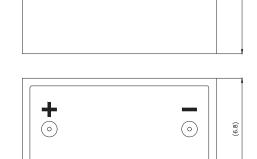
VENDOR PART NUMBER: FREQUENCY RANGE: NOMINAL GAIN: NUMBER OF ELEMENTS: POLARIZATION:

HORIZONTAL BEAMWIDTH: VERTICAL BEAMWIDTH: PATTERN: POWER RATING: LIGHTNING PROTECTION: STANDARD TERMINATION: COLOR: DIMENSIONS: WEIGHT:

COMPROD 290-70-HDB 138-174MHz 9.5dBd VERTICAL OR HORIZONTAL (VERTICAL FOR THIS APPLICATION)

62° 50° DIRECTIONAL 350W DC GROUND TYPE N MALE BLACK 2743mm L x 1067mm W 5.4lbs

VHF YAGI ANTENNA



(13.0)

IK-BATT-EXT BATTERY, EXTRA CAPACITY

								MAXIMUM DIMENSIONS INCHES/MM			APPROX. LBS./KG	WEIGHT	
	CATALOG NUMBER	TYPE D/M	TYPE	TERMINAL STUD SIZE	VOLTS	AMPS FI LOAD TE	OR A	HRS*	LENGTH (INCL. FLANGES)	WIDTH	HEIGHT (INCL. TOP POSTS)	WET	
31	S2000	М	TS	3/8-16	12	290		105	13.0/330.0	6.8/172.0	9.6/243.0	59.0/2	6.8
TS-TOP	STUD *-	100 A	MP HR, F	ATING @	25°C								

SPECIFICATIONS							
NOMINAL VOLTAGE (V)	12V						
CAPACITY AT C/100	91 AH						
CAPACITY AT C/20	79 AH						
CAPACITY AT C/5	69.2 AH						
WEIGHT	52 LBS.						
PLATE ALLOY	LEAD CALCIUM						
POSTS	FORGED TERMINALS & BUSHINGS						
CONTAINER/COVER	POLYPROPYLENE						
OPERATING TEMPERATURE RANGE	-40°F - 140°F						
CHARGE VOL	.TAGE @77*F(25*C)						
CYCLE FLOAT	13.8-14.6 VOLTS 13.4 -13.6 VOLTS						
VENT	SELF-SEALING						
TERMINAL	U (SAE/STUD)						

RATED NON-SPILLABLE BY ICAO, IATA,AND DOT MADE IN USA BY EAST PENN MANUFACTURING CO., INC. DISTRIBUTED BY MK BATTERY, ANAHEIM, CA

5.73" 0.34" (TYP.) 0.41" (TYP.) Ø0.16"4X HOLES HOLE MOD QUADRAFLARE - ALUMINUM QF MOUNT DRIVER ACCESS DOOR

MOD-OF-KIT MOD QUADRAFLARE KIT

100% SUBMITTAL (NOT FOR CONSTRUCTION)

FRONT ASSEMBLY VIEW

UNITS: MILLIMETERS [INCHES] 1'-1" 1'-0"

ADCOMM Engineering LLC

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LIZ ALZEER DEPARTMENT OF FINANCE & ADMINISTRATIVE SERVICE						
SEATTLE, WASHING	STON		20			

REAR QUADRAFLARE VIEW

INITIALS	AND DATE	INITIAL	S AND DATE	1
DESIGNED TK CHECKED JPB	6/01/22 6/01/22	REVIEWED: DES. SDOT	CONST. PROJ. MGR.	1997
 DRAWN TK	6/01/22	RECEIVED		H
CHECKED JPB	6/01/22	REVISED AS BU	ILT	ľ
	ONE IN ACCORDANCE WITH THE BOCUMENTS CALLED FO			1

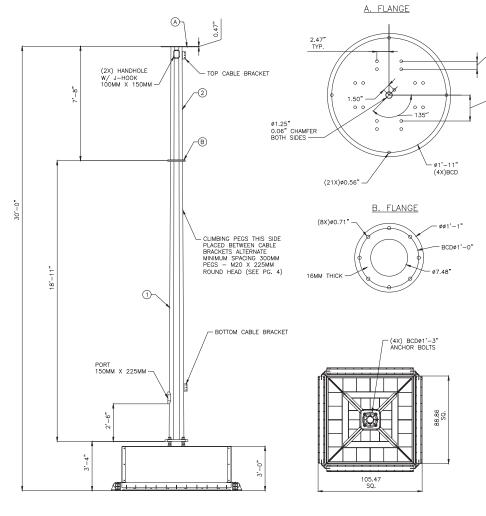


PW NO. 2022-029

TOLT DAM EARLY WARNING SYSTEM - OTHER PROJECT COMPONENTS

MISCELLANEOUS SIREN COMPONENT DETAILS

vPI# 785-45 T-210 SHEET 105 OF 134



GENERAL NOTES:

- THIS DRAWING IS CONCEPTUAL ONLY SHOWING THE GENERAL CONCEPT AND CONSTRUCTION OF THE MANUFACTURED ARE-TELECOM BALLAST BASE STEEL POLE.
- 2. ASSEMBLY OF THE POLE AND BASE SHALL BE DONE IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
- 3. STRUCTURAL CALCULATIONS AND DETAILS FOR THIS POLE ARE INCLUDED IN THE PAUL J. FORD AND COMPANY STRUCTURAL ANALYSIS REPORT, DATED SEPTEMBER 30, 2021 PJF PROJECT: A2121-0046.001.7025 AND PAUL J. FORD AND COMPANY STRUCTURAL ANALYSIS REPORT, DATED SEPTEMBER 30, 2021 PJF PROJECT: A2121-0047.001.7025.
- SURVIVAL WIND SPEED: PER CODE
 STRUCTURE CLASS PER CODE
 TOPOGRAPHIC PER CODE
 EXPOSURE PER CODE
- 2. DESIGN AND WELDING CODES:
 - TIA-222-G
 AWS DL1
- 3. MATERIAL (OR EQUIVALENT)
 POLE: ASTM A572 GR65 (Q420)
 - BASEPLATE: ASTM A572 GR50 (Q355)
 - TOP/ HINGE FLANGE: ASTM A572 GR50 (Q355)

- 4. ANCHOR BOLTS: (4X) M36X4 X 1000MM GR 8.8 (3X) NUT (4X) WASHER OPTIONAL (1 1/2-6 X 39IN GRADE ASTM F1554 G55) HOT DIP GALV. PER ASTM F2329
- 5. FLANGE BOLTS: (8X) M16X2 X 60MM GR 8.8
- (1x) NUT (2x)WASHER
 OPTIONAL (5/8-11 x 2.5IN GR A325)
 HOT DIP GALV. PER ASTM F2329
- 6. POLE HAS 8 SIDES
- 7. FINISH HOT DIP GALVANIZING PER ASTM A123
- 8. POLE SECTION DETAILS

POLE SECTION	#1	#2
THICKNESS - (IN)	0.197	0.197
LENGTH - (IN)	227.75	92.8
TOP DIA (IN)	9.84	8.94
BOTTOM DIA (IN)	12	9.83
MIN SLIP - (IN)		NA
SECTION WEIGHT (LB)	288.2	251

OWS 5 VISTA HOUSE POLE DETAIL

100% SUBMITTAL (NOT FOR CONSTRUCTION)

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APPROVED FOR ADVERTISING LIZ ALZEER DEPARTMENT OF FINANCE & ADMINISTRATIVE SERVICES SEATTLE, WASHINGTON 20 BY:

CITY PURCHASING & CONTRACTING SERVICES DIRECTOR

INITIALS AND DATE INITIALS AND DATE EVIEWED: 6/01/22 CHECKED JPB 6/01/22 RECEIVED DRAWN TK CHECKED JPB 6/01/22 6/01/22 REVISED AS BUILT ALL WORK SHALL BE DONE IN ACCORDANCE WITH SPECIFICATIONS AND OTHER DOCUMENTS CALLED I

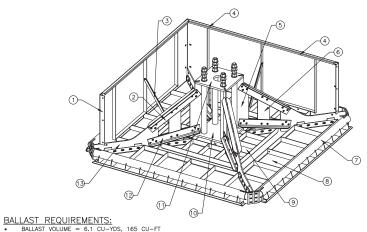


Seattle Public Utilities

TOLT DAM EARLY WARNING SYSTEM - OTHER PROJECT COMPONENTS

OWS 5 VISTA HOUSE POLE DETAILS - 1

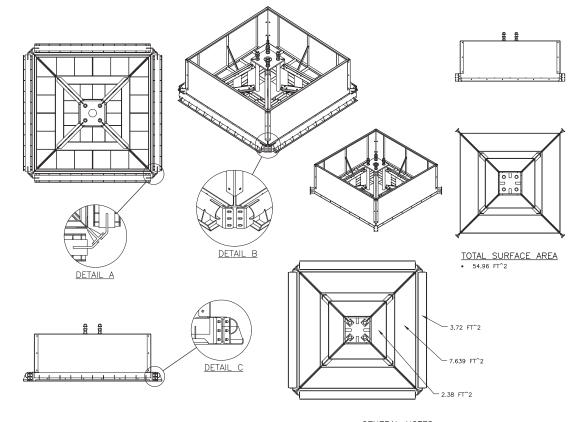
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	VPI	#	785-45
			T-211
	SHI	EET	106 of 134





- CU-FT = 100 LBS
 CU-YD = 2700 LBS

	AFS350 BILL OF MATI	ERIALS	
#	DESCRIPTION	QTY.	WEIGHT (KG/ LBS)
1	CORNER BRACKET	4	5.5
2	UPPER CHORD	8	11.9
3	BRACE	8	1.72
4	SIDEWALL	4	111.1
5	ANCHOR SPOKE	4	60.1
6	CENTER WEB	4	23.8
7	OUTER BEARING PLATE	4	127.6
8	OUTER BALLAST TRAY	4	103.4
9	INNER BALLAST TRAY	4	40.3
10	LOWER SPLICE PLATE	1	103.6
11	UPPER SPLICE PLATE	1	83
12	LOWER CHORD	8	10.34
13	TRUSS HEEL PLATE	4	45.32



GENERAL NOTES

- THIS DRAWING IS CONCEPTUAL ONLY SHOWING THE GENERAL CONCEPT AND CONSTRUCTION OF THE MANUFACTURED ARE-TELECOM BALLAST BASE STEEL POLE.
- 2. ASSEMBLY OF THE POLE AND BASE SHALL BE DONE IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
- STRUCTURAL CALCULATIONS AND DETAILS FOR THIS POLE ARE INCLUDED IN THE PAUL J. FORD AND COMPANY STRUCTURAL ANALYSIS REPORT, DATED SEPTEMBER 30, 2021 PJF PROJECT: A2121-0046.001.7025 AND PAUL J. FORD AND COMPANY STRUCTURAL ANALYSIS REPORT, DATED SEPTEMBER 30, 2021 PJF PROJECT: A2121-0047.001.7025.

	AFS350 BOLTS, NUTS & WASHERS (OTHER EQUIVALENT GRADES ACCEPTABLE)									
#	UNIT	BOLT SIZE	LENGTH	WIDTH ACROSS FLATS					WASHER QTY.	BOLT QTY
14	IMPERIAL	1/2-13	1 3/16"	7/8"	FULL THREAD	A325	HOT DIP GALV.	56	112	56
15	IMPERIAL	1/2-13	2 3/8"	7/8"	FULL THREAD	A325	HOT DIP GALV.	24	48	24
16	IMPERIAL	3/4-10	2 3/16"	1 1/8"	FULL THREAD	A325	HOT DIP GALV.	72	144	72
17	IMPERIAL	1 1/2-6	39"	2 3/16"	12"	A325	HOT DIP GALV.	12	16	4

OWS 5 VISTA HOUSE POLE BASE DETAILS

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DEPARTMENT OF FINANCE & ADMINISTRATIVE SERVICES INITIALS AND DATE INITIALS AND DATE EVIEWED: 6/01/22 CHECKED JPB 6/01/22 SEATTLE, WASHINGTON 20 6/01/22 6/01/22 DRAWN TK CHECKED JPB REVISED AS BUILT BY:

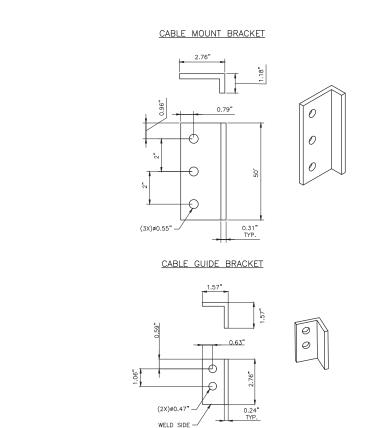
CITY PURCHASING & CONTRACTING SERVICES DIRECTOR

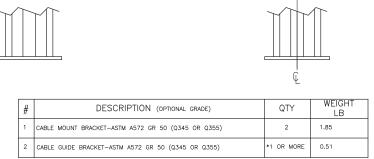




TOLT DAM EARLY WARNING SYSTEM - OTHER PROJECT COMPONENTS

OWS 5 VISTA HOUSE POLE DETAILS - 2 vPI# 785-45 T-212 SHEET 107 OF 134





ALIGN MOUNTING HOLES WITH CENTER LINE OF POLE

 THIS DRAWING IS CONCEPTUAL ONLY SHOWING THE GENERAL CONCEPT AND CONSTRUCTION OF THE MANUFACTURED ARE-TELECOM BALLAST BASE STEEL POLE.

 ASSEMBLY OF THE POLE AND BASE SHALL BE DONE IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

3. STRUCTURAL CALCULATIONS AND DETAILS FOR THIS POLE ARE INCLUDED IN THE PAUL J. FORD AND COMPANY STRUCTURAL ANALYSIS REPORT, DATED SEPTEMBER 30, 2021 PJF PROJECT: A2121-0046.001,7025 AND PAUL J. FORD AND COMPANY STRUCTURAL ANALYSIS REPORT, DATED SEPTEMBER 30, 2021 PJF PROJECT: A2121-0047.001.7025.

CABLE MOUNT BRACKET DETAILS

LOWER CABLE MOUNT BRACKET

- UPPER CABLE MOUNT BRACKET

- CABLE GUIDE BRACKET/S SHALL BE EQUALLY SPACED BETWEEN UPPER AND LOWER CABLE MOUNT BRACKETS SPACE EVERY 25FT TO 30FT (7.6M TO 9.1M)

100% SUBMITTAL (NOT FOR CONSTRUCTION)

3. ALL WELDING SHALL CONFORM TO THE MINIMUM REQUIREMENTS OF AWS D1.1

5. HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM A123

2. ALL PLATE MATERIAL SHALL SHALL HAVE A MINIMUM YIELD STRENGTH OF 345 MPA (50 KSI)

FABRICATION NOTES:

6. DEBUR ALL SHARP EDGES

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SEATTLE, WASHINGTON ... 20

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*THE NUMBER OF CABLE GUIDES WILL VARY BASED ON HEIGHT OF POLE AND SHALL BE EQUALLY SPACED BETWEEN THE UPPER AND LOWER CABLE MOUNT BRACKETS.

4. ALL WELDING SHALL BE DONE BY WELDERS QUALIFIED UNDER AWS SPECIFICATIONS, USING E70XX, LOW HYDROGEN ELECTRODES

	IN	ITIALS AND	DATE	INITIALS A	ND DATE	ı
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	DRAWN CHECKED		6/01/22 6/01/22	RECEIVED		A
				REVISED AS BUILT		13
 OR	ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CITY OF SEATTLE STANDARD PLANS AND SPECIFICATIONS AND OTHER DOCUMENTS CALLED FOR IN SECTION 0-02.3 OF THE PROJECT MANUAL.					





ORDINANCE NO. PW NO. 2022-029
SCALE: NTS

TOLT DAM EARLY WARNING SYSTEM — OTHER PROJECT COMPONENTS

OWS 5 VISTA HOUSE POLE DETAILS - 3

√ E70XX

∠ E70XX

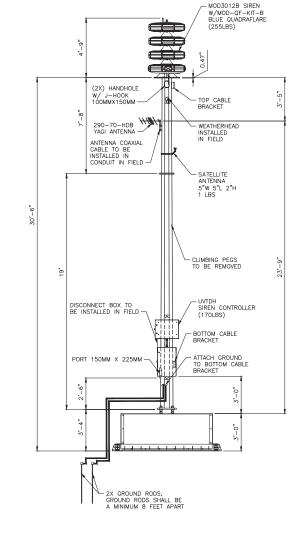
GENERAL NOTES

5/16"

VPI # 785-45

T-213

SHEET 108 OF 134



OWS 5 VISTA HOUSE POLE COMPLETE ASSEMBLY DETAIL

100% SUBMITTAL (NOT FOR CONSTRUCTION)

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INITIALS AND DATE INITIALS AND DATE EVIEWED: 6/01/22 CHECKED JPB 6/01/22 RECEIVED DRAWN TK CHECKED JPB 6/01/22 6/01/22 REVISED AS BUILT ALL WORK SHALL BE DONE IN ACCORDANCE WITH SPECIFICATIONS AND OTHER DOCUMENTS CALLED I



TOLT DAM EARLY WARNING SYSTEM - OTHER PROJECT COMPONENTS

GENERAL NOTES

BASE STEEL POLE.

1. THIS DRAWING IS CONCEPTUAL ONLY SHOWING THE GENERAL CONCEPT AND CONSTRUCTION OF THE MANUFACTURED ARE-TELECOM BALLAST

2. ASSEMBLY OF THE POLE AND BASE SHALL BE DONE IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

3. STRUCTURAL CALCULATIONS AND DETAILS FOR

SEPTEMBER 30, 2021 PJF PROJECT: A2121-0047.001.7025.

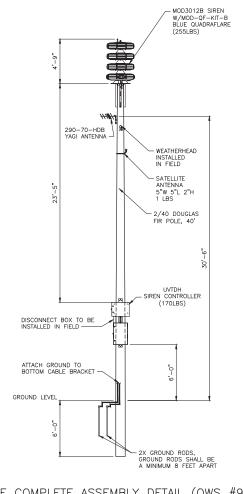
THIS POLE ARE INCLUDED IN THE PAUL J. FORD AND COMPANY STRUCTURAL ANALYSIS REPORT,

DATED SEPTEMBER 30, 2021 PJF PROJECT: A2121-0046.001.7025 AND PAUL J. FORD AND

COMPANY STRUCTURAL ANALYSIS REPORT, DATED

vPI# 785-45 T-214 SHEET 109 OF 134

OWS 5 VISTA HOUSE POLE DETAILS - 4



POLE COMPLETE ASSEMBLY DETAIL (OWS #9,10) NTS

GENERAL NOTES 1. THIS DRAWING DESCRIBES THE CONCEPTUAL EQUIPMENT LAYOUT AND PLACEMENT OF SIREN COMPONENTS ON THE WOOD POLES.

- STRUCTURAL CALCULATIONS AND INSTALLATION DETAILS FOR THIS POLE ARE INCLUDED IN FEDERAL SIGNAL DRAWINGS 8759-1 AND 8759-2, DATED OCTOBER 1, 2021.
- 3. INSTALLATION OF THE POLE SHALL BE DONE IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
- 4. CONTROL AND ANTENNA LINES TO BE MOUNTED EITHER IN CONDUIT OR HALF-ROUND ON THE WOOD POLE.

POLE COMPLETE ASSEMBLY DETAIL (OWS #6) NTS

290-70-HDB YAGI ANTENNA

MOD6032B SIREN

W/MOD-QF-KIT-B

WEATHERHEAD INSTALLED IN FIELD

SATELLITE

ANTENNA 5"W 5"L 2"H 1 LBS

- 2/40 DOUGLAS FIR POLE, 50'

UVTDH - SIREN CONTROLLER

(170LBS)

- 2X GROUND RODS

(496LBS)

BLUE QUADRAFLARE

100% SUBMITTAL (NOT FOR CONSTRUCTION)

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APPROVED FOR ADVERTISING LIZ ALZEER **ADCOMM** DEPARTMENT OF FINANCE & ADMINISTRATIVE SERVICES SEATTLE, WASHINGTON 20 Engineering LLC BY: CITY PURCHASING & CONTRACTING SERVICES DIRECTOR

INITIALS AND DATE INITIALS AND DATE EVIEWED: CHECKED JPB 62/08/22 DRAWN TK CHECKED JPB 67/8/22 67/8/22 REVISED AS BUILT ALL WORK SHALL BE DONE IN ACCORDANCE



SYSTEM - OTHER PROJECT COMPONENTS

vPI# 785-45 T-215 SHEET 110 OF 134

PERMANENT POLE DETAILS

DISCONNECT BOX TO BE INSTALLED IN FIELD

ATTACH GROUND TO BOTTOM CABLE BRACKET

GROUND LEVEL

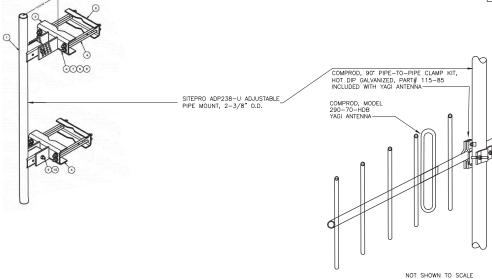
TOLT DAM EARLY WARNING

GENERAL NOTES:

1. USE APPROPRIATE ADJUSTMENT HOLES IN PIPE MOUNT BRACKETS (ITEM #1) AND IN UPPER GATE FOOT WELDMENT (ITEMS #2) TO ENSURE ANTENNA MOUNTING PIPE IS PLUMB TO GROUND.

PARTS LIST

			TAINTO LIST			
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	1	ADP238	ADJUSTABLE PIPE MOUNT, 2/-3/8"		25.74	25.74
2	1	CFM	UPPER GATE FOOT WELDMENT		13.90	13.90
3	1	CFS	LOWER GATE FOOT WELDMENT		12.72	12.72
4	8	G12R-12	1/2" X 12" THREADED ROD (HDG.)		0.35	2.81
4	8	G12R-15	1/2" X 15" THREADED ROD (HDG.)		0.35	2.81
5	16	G12FW	1/2" HDG USS FLATWASHER		0.03	0.54
6	16	G12LW	1/2" HDG LOCKWASHER		0.01	0.22
7	16	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	1.14
8	2	GBB	GATE BACKING BAR		4.53	9.06
9	2	A1205	1/2" X 5" A325 HDG BOLT	5 IN	0.34	0.69
10	2	A12NUT	1/2" HDG A325 HEX NUT		0.07	0.14
					TOTAL WT. #	76.25



100% SUBMITTAL (NOT FOR CONSTRUCTION)

ADCOMM Engineering LLC

APPROVED FOR ADVERTISING
LIZ ALZEER
DEPARTMENT OF FINANCE & ADMINISTRATIVE SERVICES SEATTLE, WASHINGTON 20 .

INITIALS AND DATE INITIALS AND DATE 6/01/22 6/01/22 CHECKED JPB DRAWN TK CHECKED JPB 6/01/22 6/01/22 REVISED AS BUILT



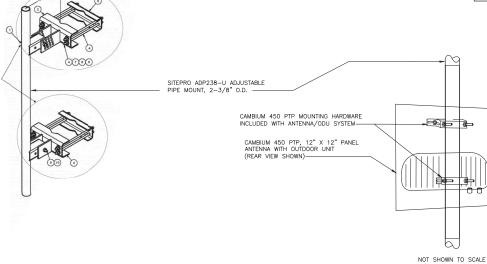
Seattle Public Utilities

SWAN - YAGI ANTENNA MOUNTING DETAILS TOLT DAM EARLY WARNING SYSTEM - OTHER PROJECT COMPONENTS

	80° CO		C115120		
_	VPI#		785-45		
			T-219		

PARTS LIST

FAITIS LIST							
ITEM	QTY	PART NO. PART DESCRIPTION LENGTH UN		UNIT WT.	NET WT.		
1	1	ADP238 ADJUSTABLE PIPE MOUNT, 2/-3/8" 25.74				25.74	
2	1	CFM UPPER GATE FOOT WELDMENT 13.90		13.90	13.90		
3	1	CFS	LOWER GATE FOOT WELDMENT		12.72	12.72	
4	8	G12R-12	-12 1/2" X 12" THREADED ROD (HDG.)		0.35	2.81	
4	8	G12R-15	1/2" X 15" THREADED ROD (HDG.)		0.35	2.81	
5	16	G12FW	1/2" HDG USS FLATWASHER		0.03	0.54	
6	16	G12LW	1/2" HDG LOCKWASHER		0.01	0.22	
7	16	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	1.14	
8	2	GBB	GATE BACKING BAR		4.53	9.06	
9	2	A1205	1/2" X 5" A325 HDG BOLT 5 IN 0.34		0.34	0.69	
10	2	A12NUT	1/2" HDG A325 HEX NUT		0.07	0.14	
					TOTAL WT. #	76.25	



GENERAL NOTES:

- USE APPROPRIATE ADJUSTMENT HOLES IN PIPE MOUNT BRACKETS (ITEMS #1) AND IN UPPER GATE FOOT WELDMENT (ITEM #2) TO ENSURE ANTENNA MOUNTING PIPE IS PLUMB TO GROUND.
- USE SITEPRO, TAM-LL LARGE LEG ADAPTER KIT IN CONJUNCTION WITH ADP238-U PIPE MOUNT (SEE CHART 2)
- SEATTLE IT WILL PROVIDE THE MICROWAVE RF UNIT FOR THE CONTRACTOR FORCES TO INSTALL ON THE TOWER. THE CONTRACTOR SHALL SUPPLY THE MOUNT AS SPECIFIED ABOVE.

100% SUBMITTAL (NOT FOR CONSTRUCTION)

LARGE LEG ADAPTER KIT

NTS

SWAN - PANEL ANTENNA MOUNTING DETAILS 1

Engineering LLC

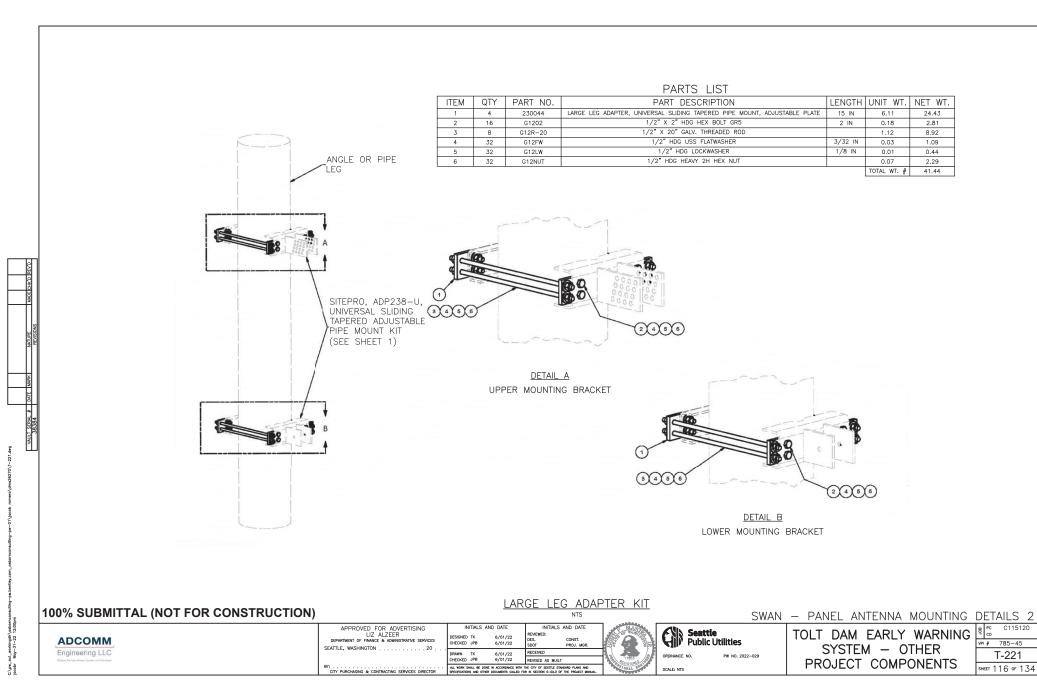


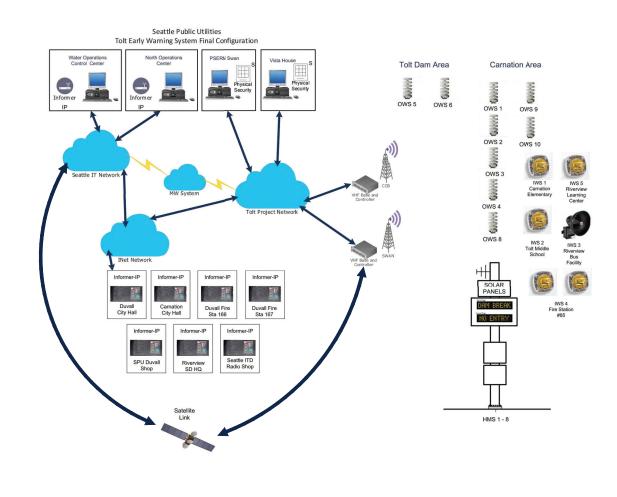


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TOLT DAM EARLY WARNING SYSTEM — OTHER PROJECT COMPONENTS

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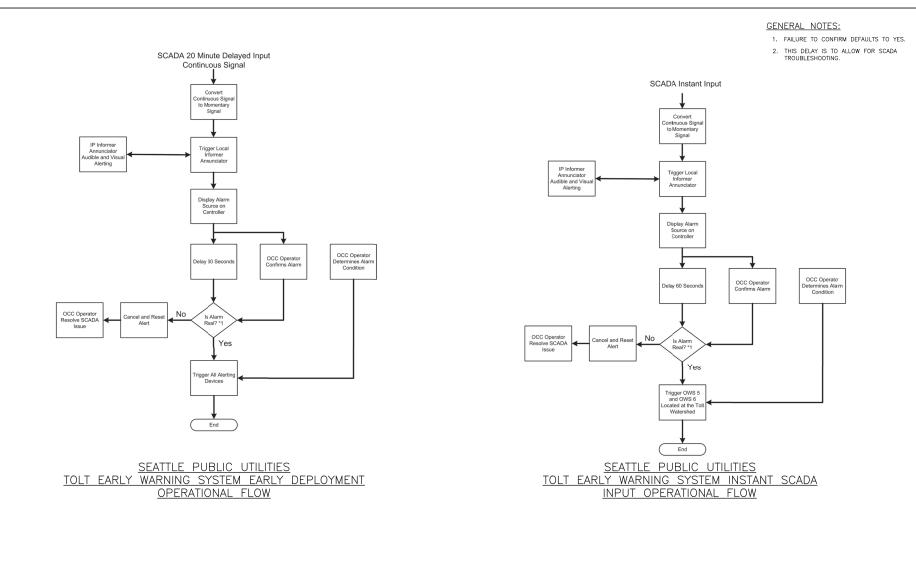
RDINANCE NO. PW NO. 20

TOLT DAM EARLY WARNING SYSTEM — OTHER PROJECT COMPONENTS

G | 8 | PC | C115120 | C11

SYSTEM DETAIL DIAGRAM - 1

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Seattle Public Utilities

TOLT DAM EARLY WARNING SYSTEM - OTHER PROJECT COMPONENTS

SYSTEM DETAIL DIAGRAM - 2 vPI# 785-45 T-302 SHEET 118 OF 134

SYMBOL LEGEND

			,
ITEM	QTY	PART #	DESCRIPTION
	2	X-PCD1	DESKTOP COMPUTER, W/MONITOR, SPEAKER
(A)	2	X-PCIO	PC INTERFACE, RELAY INPUTS AND OUTPUTS FOR PLC
	1	SS2000+R	RACK MOUNT DTMF/FSK ENCODER WITH KEYBOARD, DISPLAY
. 	1	-	BASE STATION RADIO, 110W, 136-174MHz
ŧ	5	-	UNIVERSAL POLE CLAMP ANTENNA MOUNT SET, PD246, WITH 572126 2" X 3' GALVANIZED STEEL PIPE
¥	6	-	UNIVERSAL WALL CLAMP ANTENNA MOUNT SET, PD241, WITH 572126 2" X 3' GALVANIZED STEEL PIPE
/// // *	11	COMPROD 290-70	YAGI ANTENNA, 138-174MHz (TO BE VERTICALLY POLARIZED AND THE AZIMUTH FOR EACH SIREN AND ANNUNCIATOR LOCATION)
	5	UVRI-BH100	CONTROL CABINET, INDOOR, WITH 100W AMPLIFIER, VHF RADIO, Q-UV-ISATZ UV SATELLITE UPGRADE KIT
	1	AM300	LOUDSPEAKER, 15W, TAPPABLE, HAZARDOUS AREA
(B)	5	EN-WSSAA	EMERGENCY NOTIFICATION, WALL SPEAKER/STROBE, ALERT, AMBER
	5	UVTDH	ULTRAVOICE SIREN CONTROLLER, 2-WAY, VHF RADIO, 120VAC, WITH UV400 400W AMPLIFIERS, IK-BATT-EXT DEEP CYCLE BATTERES, Q-UV-ISAT2 UV SATELLITE UPGRADE KIT
I	2	I-IPW	INFORMER, IP, I/O WALL MOUNT

ITEM	QTY	PART #	DESCRIPTION
	4	MOD3012B W/MOD-QF-KIT-B	SIREN, 1200W OMNI-DIRECTION MODULATOR, FOR MOUNTING ON WOOD POLES, WITH BLUE QUADRAFLARE KIT
	1	MOD6032B W/MOD-QF-KIT-B	SIREN, 3200W OMNI-DIRECTION MODULATOR, FOR MOUNTING ON WOOD POLES, WITH BLUE QUADRAFLARE KIT
	5	TK-PO-CUSPOLE	CUSTOM POLE, 2/40 DOUGLAS FIR, 40'

100% SUBMITTAL (NOT FOR CONSTRUCTION)

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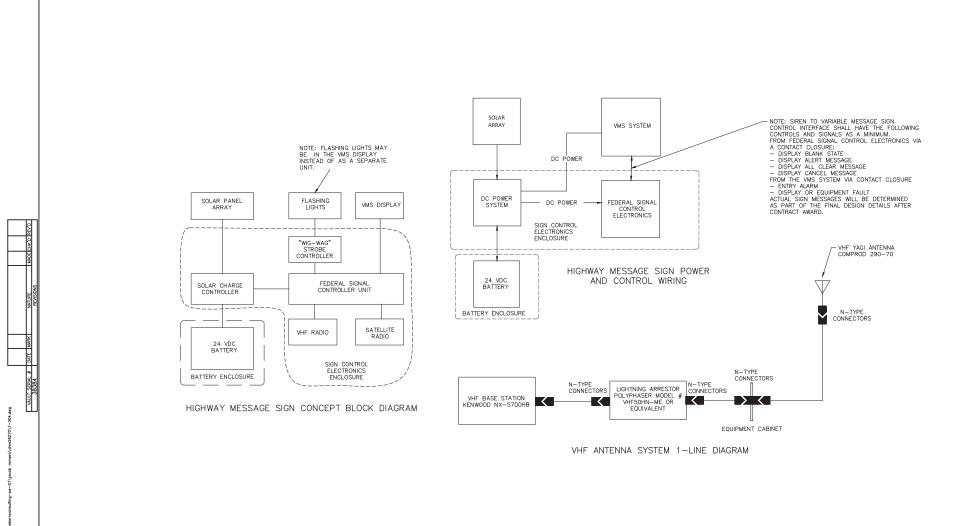
Engineering LLC

APPROVED FOR ADVERTISING
LIZ ALZEER
DEPARTMENT OF FINANCE & ADMINISTRATIVE SERVICES INITIALS AND DATE INITIALS AND DATE 6/01/22 6/01/22 DESIGNED TK CHECKED JPB SEATTLE, WASHINGTON 20 . RECEIVED
REVISED AS BUILT 6/01/22 6/01/22 BY: ... PURCHASING & CONTRACTING SERVICES DIRECTOR



TOLT DAM EARLY WARNING SYSTEM — OTHER PROJECT COMPONENTS

SYSTEM DETAIL DIAGRAM - 3 © PC C115120 co VPI # 785−45 T-303 SHEET 119 OF 134



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HMS SYSTEM DETAILS

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TOLT DAM EARLY WARNING SYSTEM - OTHER PROJECT COMPONENTS

SYSTEM DETAIL DIAGRAM - 4 vPI # 785-45 T-304 SHEET 120 OF 134

ADCOMM Engineering LLC

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ALL WORK SHALL BE DONE IN ACCORDANCE WITH SPECIFICATIONS AND OTHER DOCUMENTS CALLED I BY: CITY PURCHASING & CONTRACTING SERVICES DIRECTOR

PW NO. 2022-029

