

**Portland General Electric Company
Clackamas River Hydroelectric Project
(FERC No. 2195)**

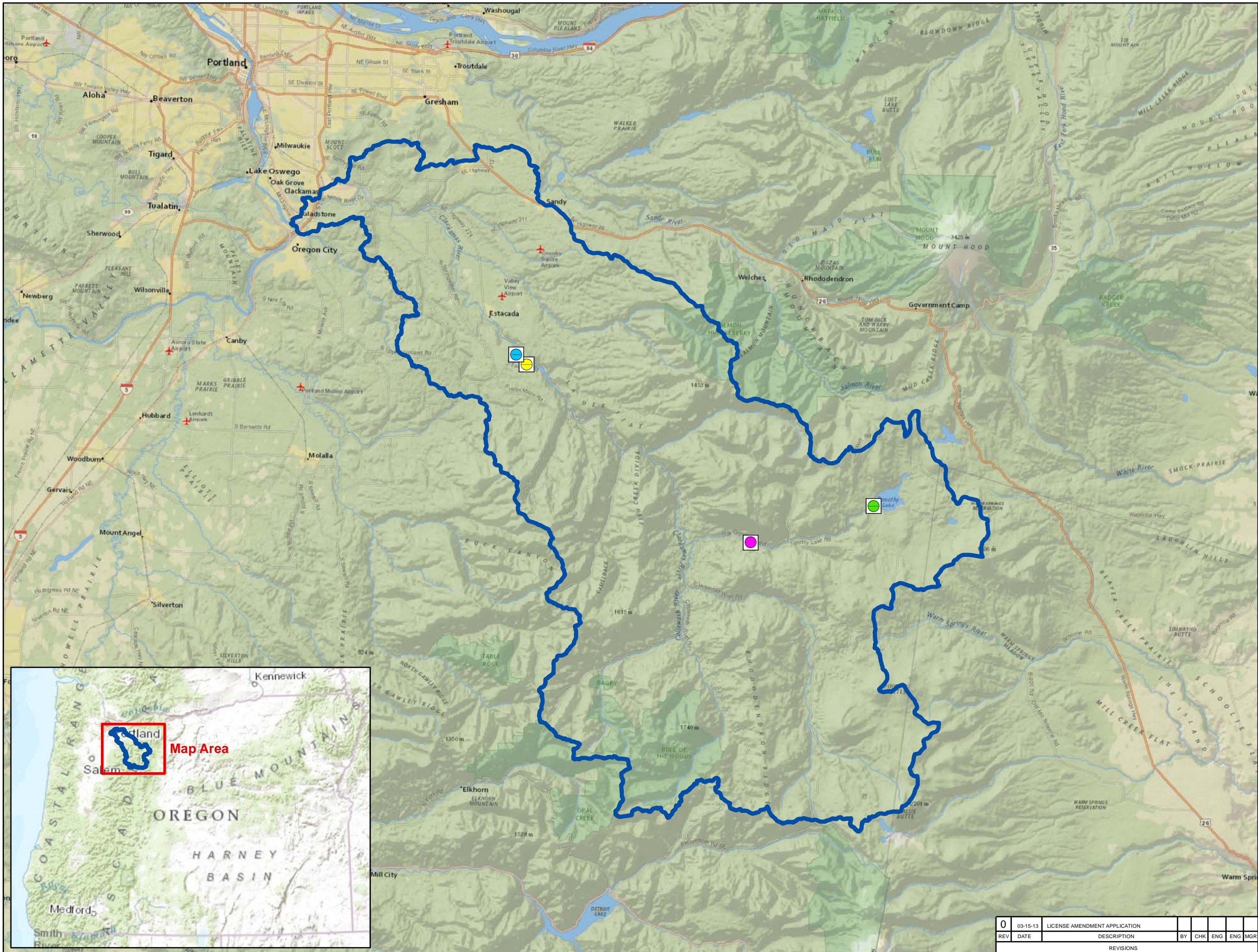
Application for Non-Capacity Amendment of License

EXHIBIT F

Project Drawings

List of Drawings

1. Clackamas River Project Proposed Turbine Locations
2. Oak Grove Development Timothy Lake Turbines Location Plan
3. Oak Grove Development Timothy Lake Turbines Plan
4. Oak Grove Development Timothy Lake Turbines Sections
5. Oak Grove Development Turbine below Lake Harriet at Crack-in-the-Ground Location Plan
6. Oak Grove Development Turbine below Lake Harriet at Crack-in-the-Ground Plan
7. Oak Grove Development Turbine below Lake Harriet at Crack-in-the-Ground Profile
8. North Fork Development North Fork Return Flow Turbine Location Plan
9. North Fork Development North Fork Return Flow Turbine Site Plan
10. North Fork Development North Fork Return Flow Powerhouse Plan
11. North Fork Development North Fork Return Flow Typical Sections
12. Faraday Development Faraday Diversion Dam Turbine Location Plan
13. Faraday Development Faraday Diversion Dam Turbine Plan
14. Faraday Development Faraday Diversion Dam Profile Section



- ### Map Features
- Clackamas River Watershed
- ### Project Sites
- Faraday Diversion Dam Turbine
 - North Fork Return Flow Turbine
 - Turbine Below Lake Harriet at Crack In The Ground
 - Timothy Lake Turbines

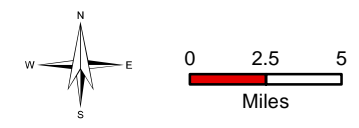


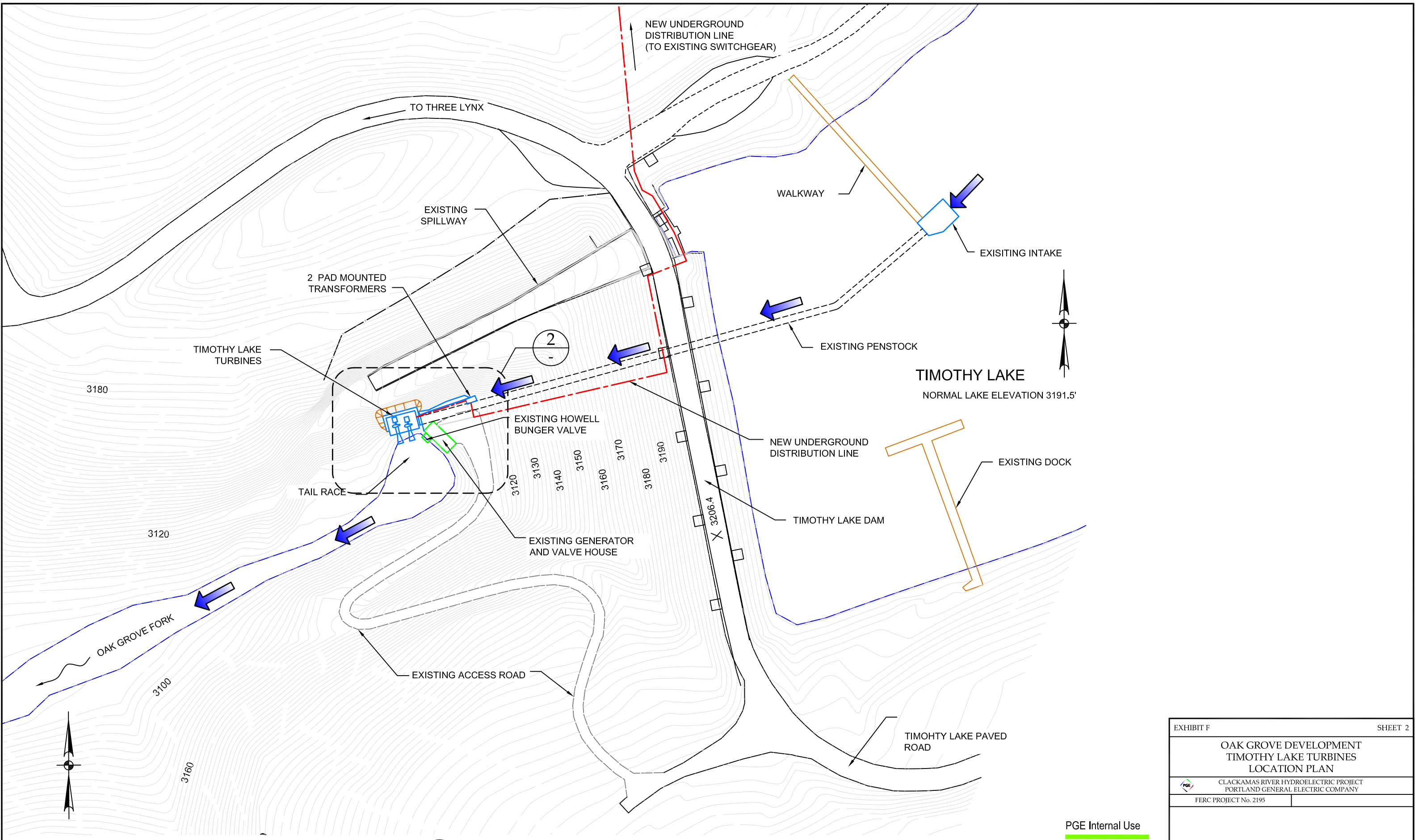
EXHIBIT F SHEET 1

CLACKAMAS RIVER PROPOSED TURBINE LOCATIONS

CLACKAMAS RIVER HYDROELECTRIC PROJECT
 PORTLAND GENERAL ELECTRIC COMPANY

FERC PROJECT No. 2195

| 0 | 03-15-13 | LICENSE AMENDMENT APPLICATION | | | | | |
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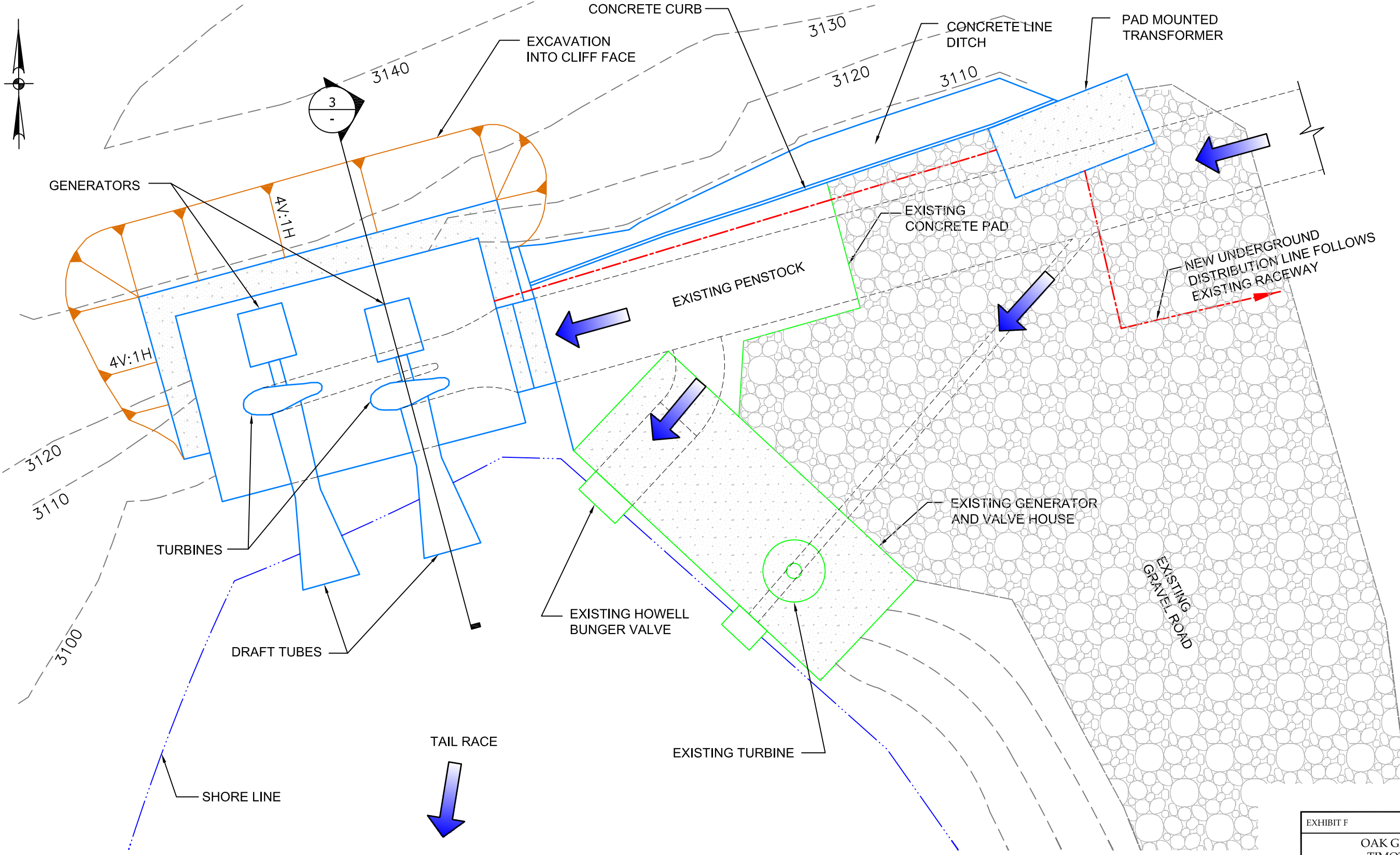
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1 LOCATION PLAN
SCALE: 1:100

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| EXHIBIT F | SHEET 2 |
| OAK GROVE DEVELOPMENT TIMOTHY LAKE TURBINES LOCATION PLAN | |
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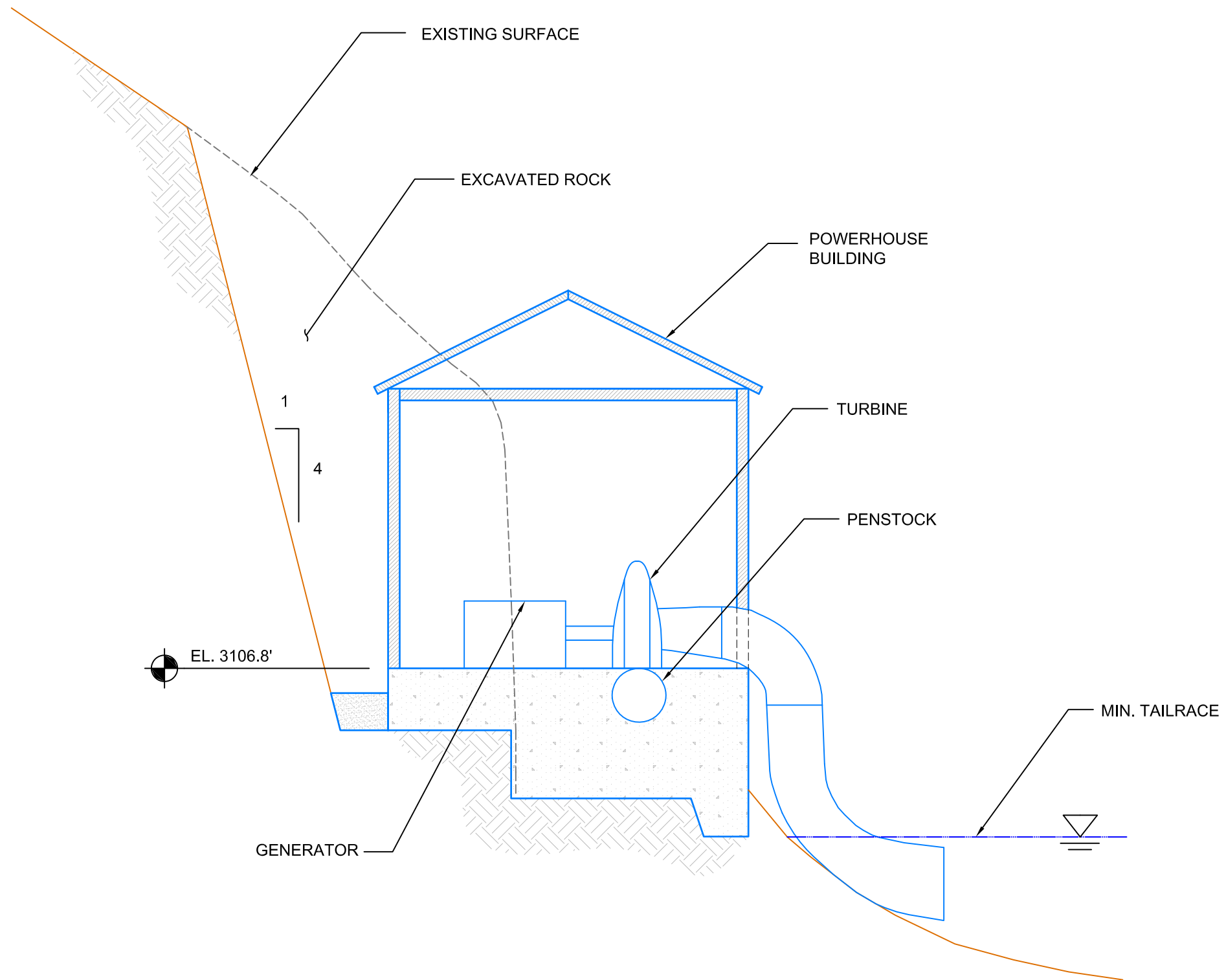
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2 POWERHOUSE PLAN
SCALE: 1/8" = 1'-0"

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| EXHIBIT F | SHEET 3 |
| OAK GROVE DEVELOPMENT TIMOTHY LAKE TURBINES PLAN | |
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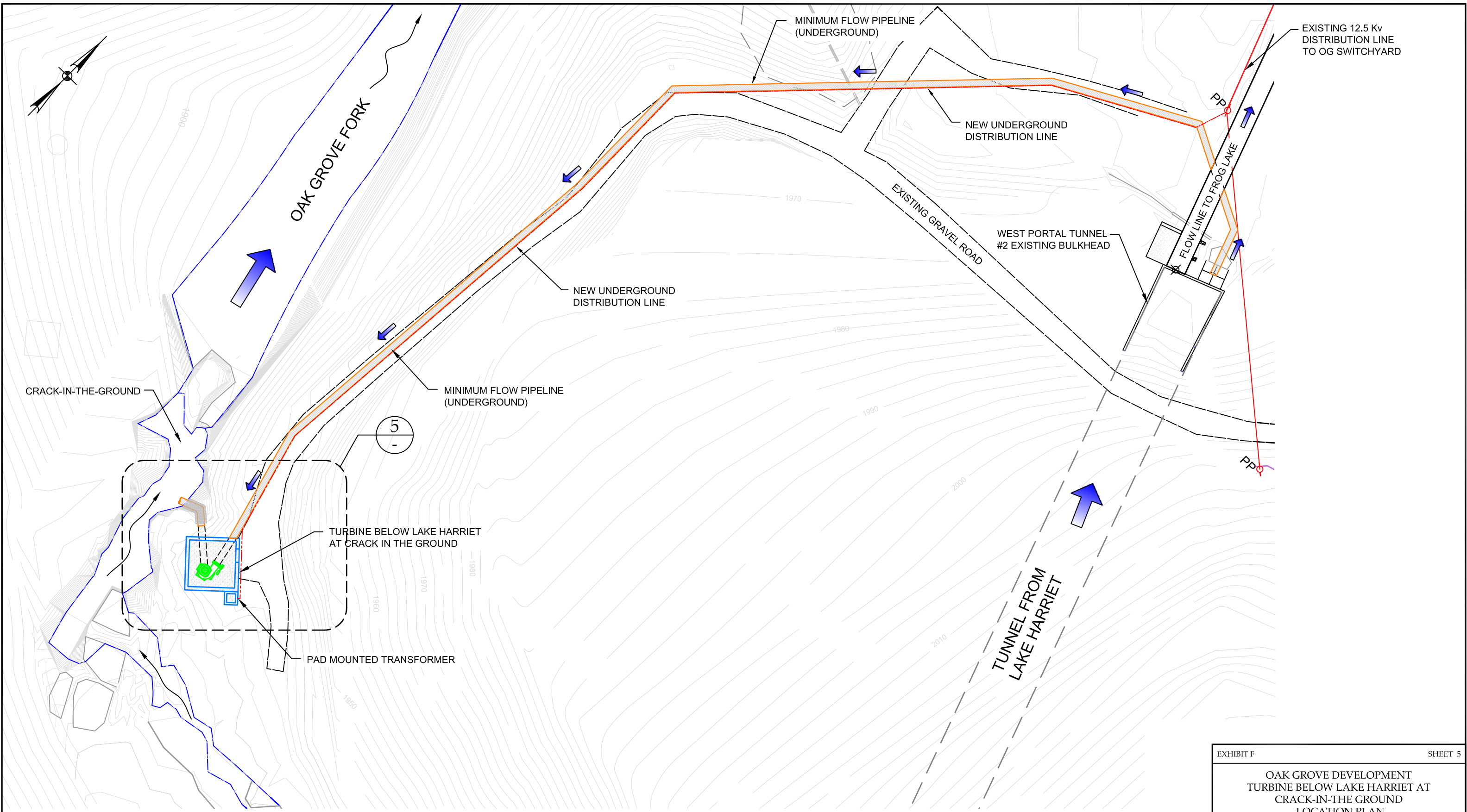
3 PROFILE SECTION
 SCALE: 3/16"= 1'-0"

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| EXHIBIT F | SHEET 4 |
| OAK GROVE DEVELOPMENT TIMOTHY LAKE TURBINES SECTIONS | |
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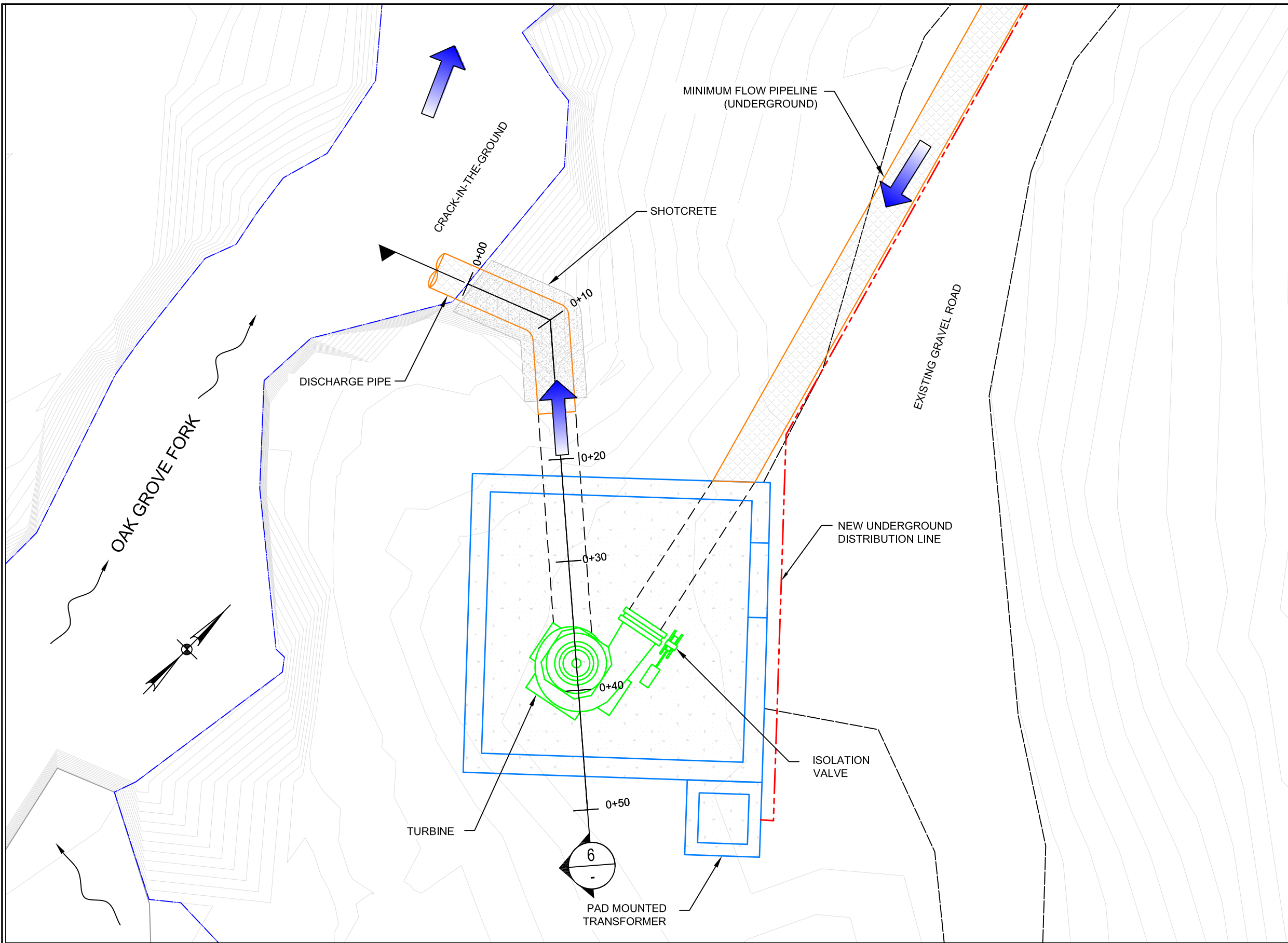
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4 LOCATION PLAN
SCALE: 1"=40'-0"

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| EXHIBIT F | SHEET 5 |
| OAK GROVE DEVELOPMENT TURBINE BELOW LAKE HARRIET AT CRACK-IN-THE-GROUND LOCATION PLAN | |
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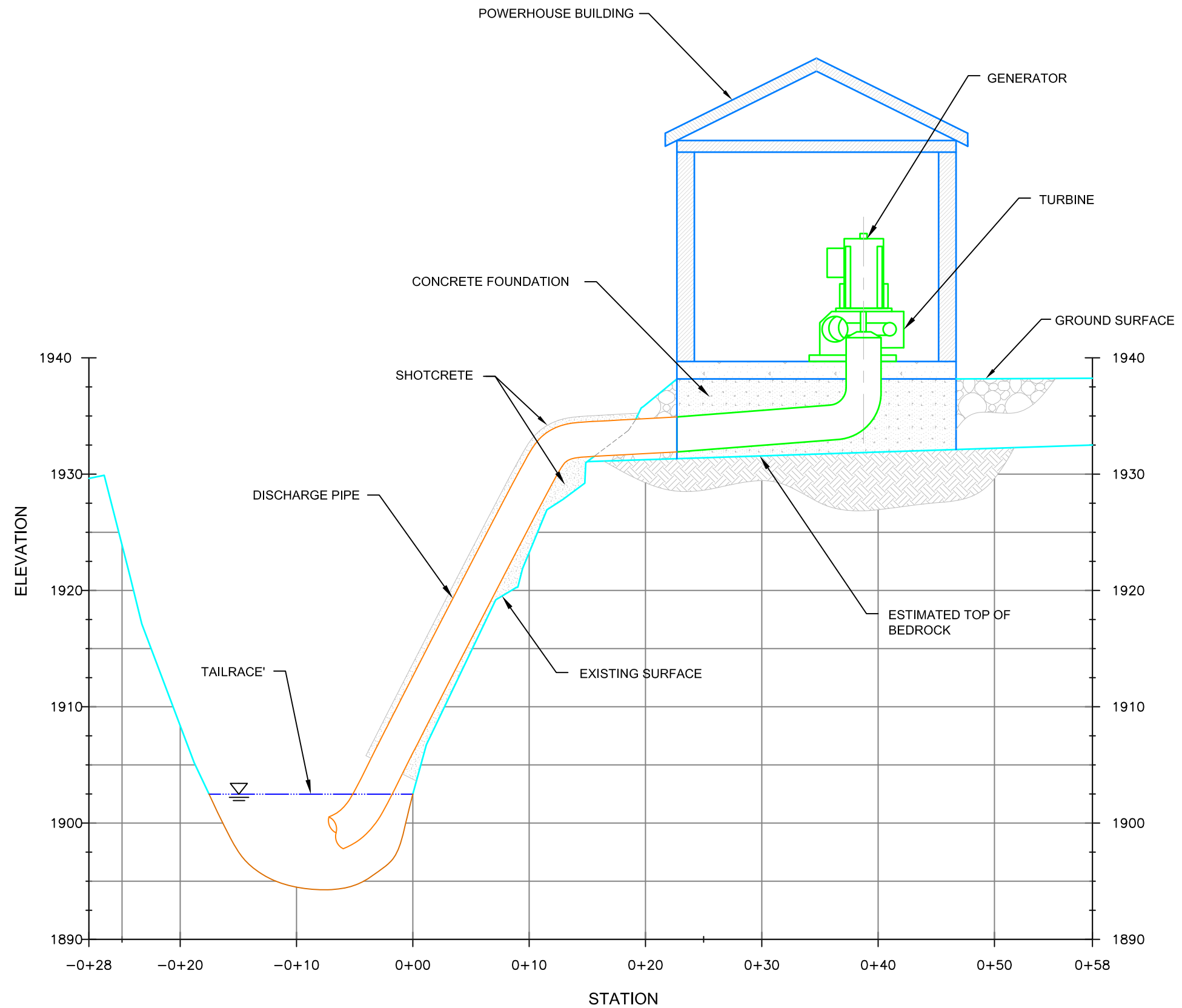
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5 POWERHOUSE PLAN
SCALE: 1"=8'-0"

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| EXHIBIT F | SHEET 6 |
| OAK GROVE DEVELOPMENT TURBINE BELOW LAKE HARRIET AT CRACK-IN-THE GROUND PLAN | |
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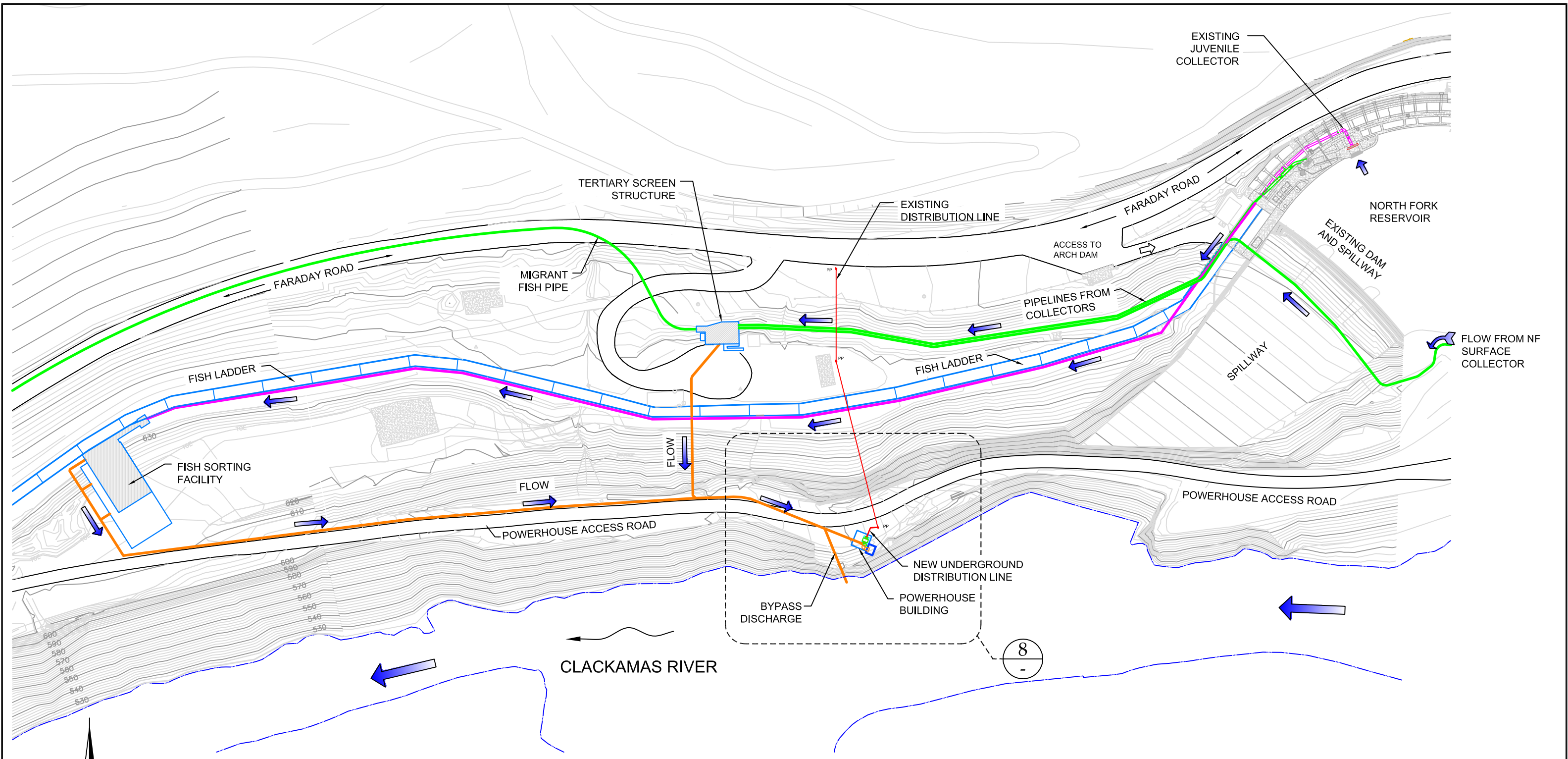
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6 POWERHOUSE SECTION
 - SCALE: 1"=10'-0"

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| EXHIBIT F | SHEET 7 |
| OAK GROVE DEVELOPMENT TURBINE BELOW LAKE HARRIET AT CRACK-IN-THE GROUND PROFILE | |
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7 LOCATION PLAN
 SCALE: 1/8" = 1'

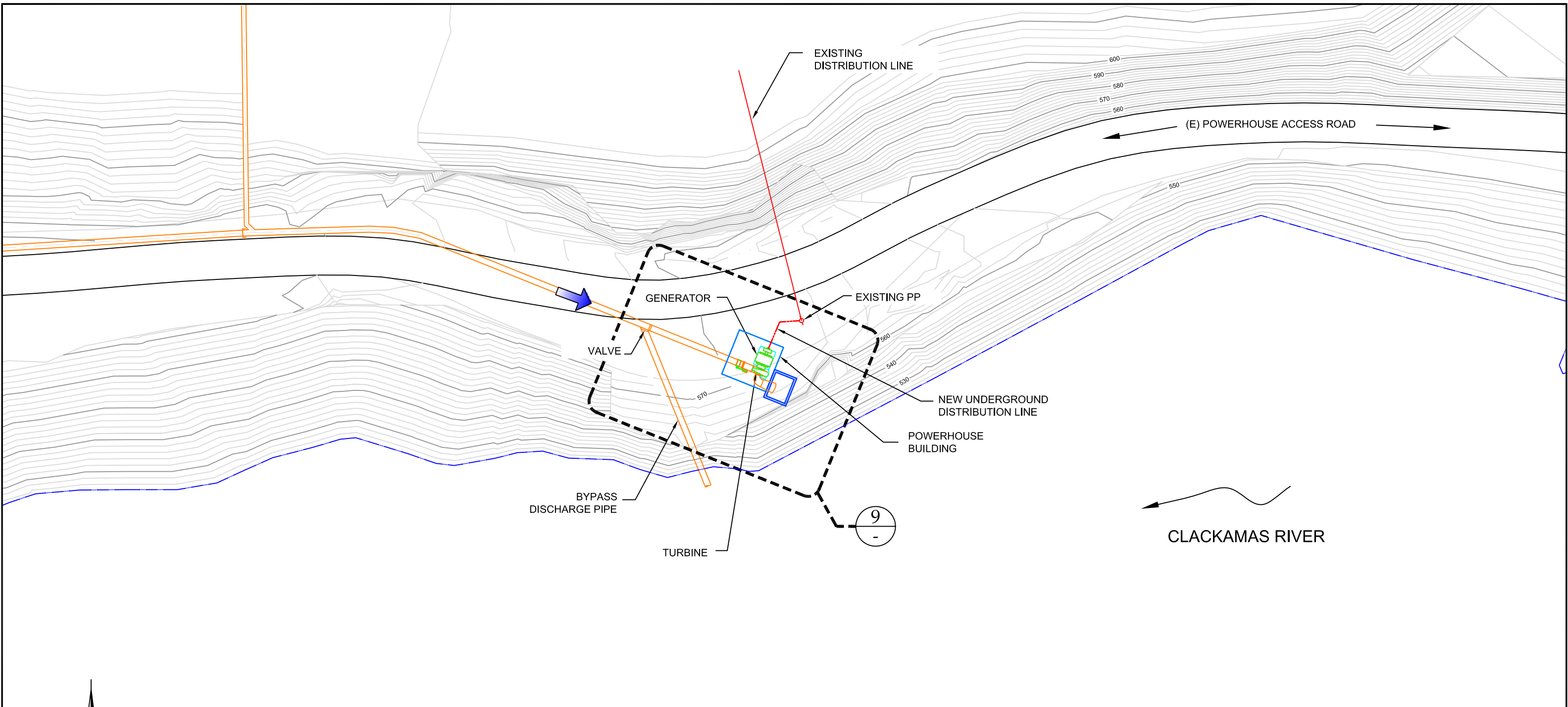
8

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| EXHIBIT F | SHEET 8 |
| NORTH FORK DEVELOPMENT NORTH FORK RETURN FLOW TURBINE LOCATION PLAN | |
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8 SITE PLAN
 - SCALE: 1/32" = 1'-0"

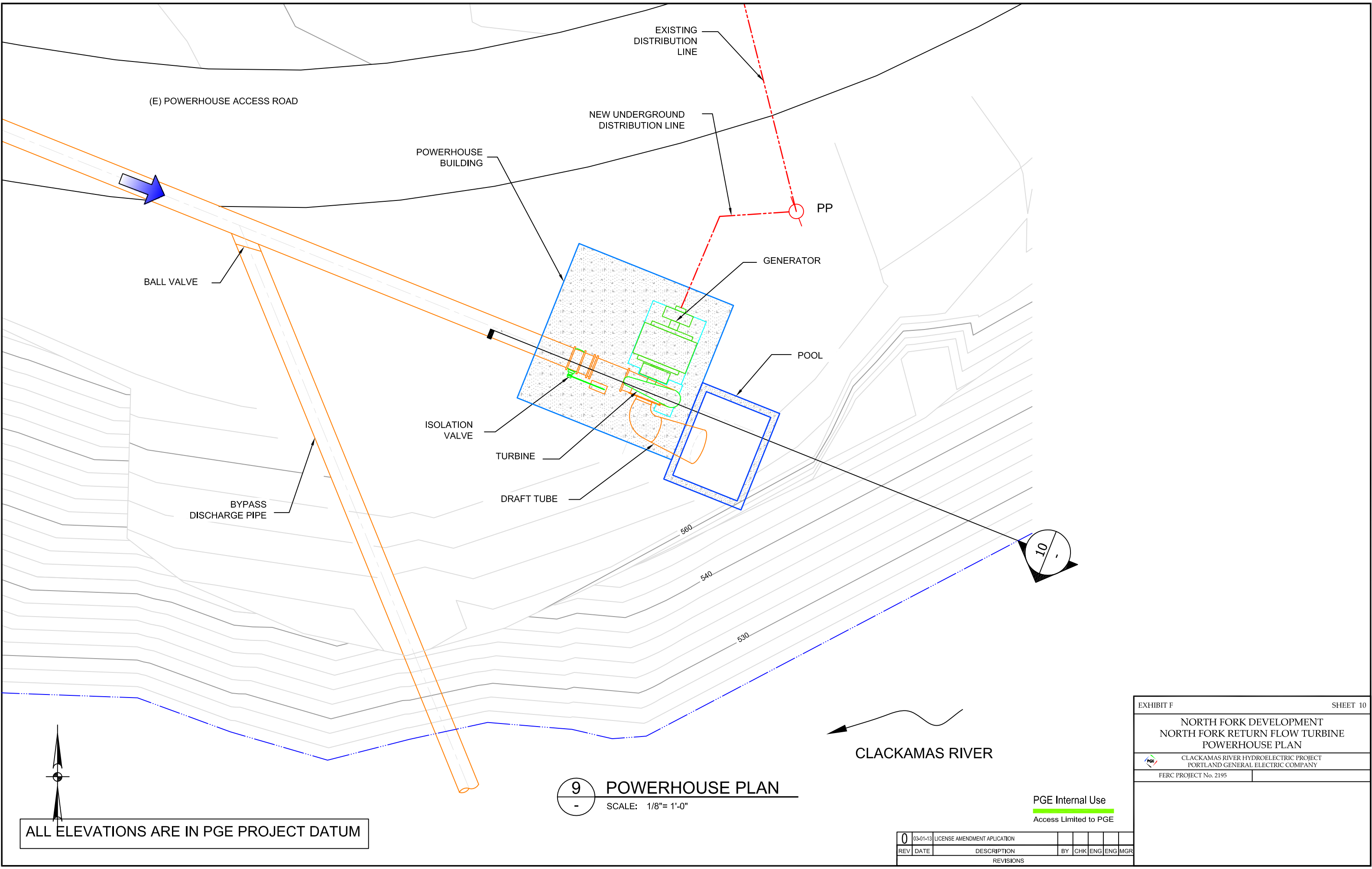


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| EXHIBIT F | SHEET 9 |
| NORTH FORK DEVELOPMENT NORTH FORK RETURN FLOW TURBINE SITE PLAN | |
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(E) POWERHOUSE ACCESS ROAD

EXISTING DISTRIBUTION LINE

NEW UNDERGROUND DISTRIBUTION LINE

POWERHOUSE BUILDING

PP

GENERATOR

BALL VALVE

POOL

ISOLATION VALVE

TURBINE

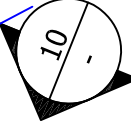
DRAFT TUBE

BYPASS DISCHARGE PIPE

560

540

530



CLACKAMAS RIVER

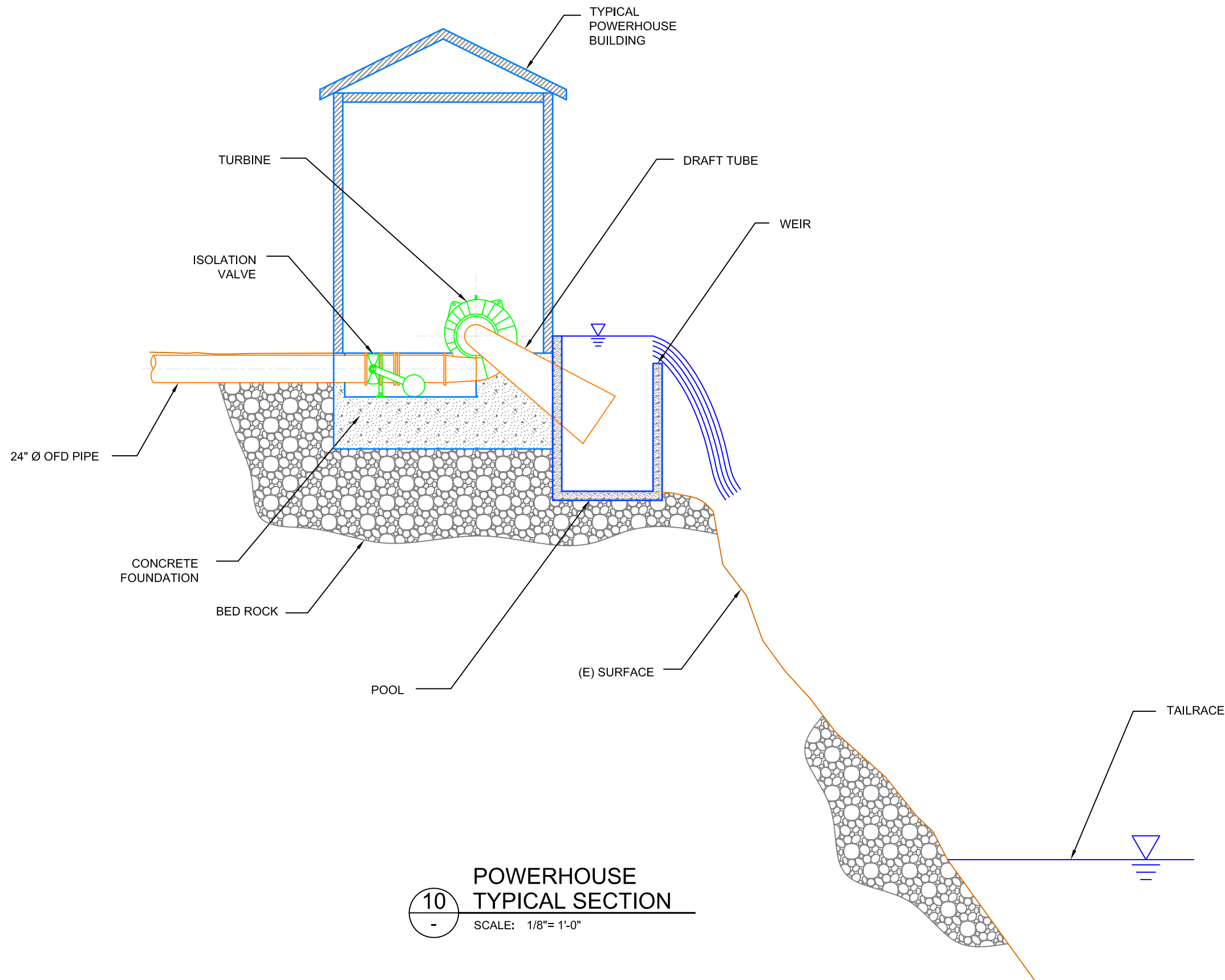
9 POWERHOUSE PLAN
SCALE: 1/8" = 1'-0"

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| EXHIBIT F | SHEET 10 |
| NORTH FORK DEVELOPMENT NORTH FORK RETURN FLOW TURBINE POWERHOUSE PLAN | |
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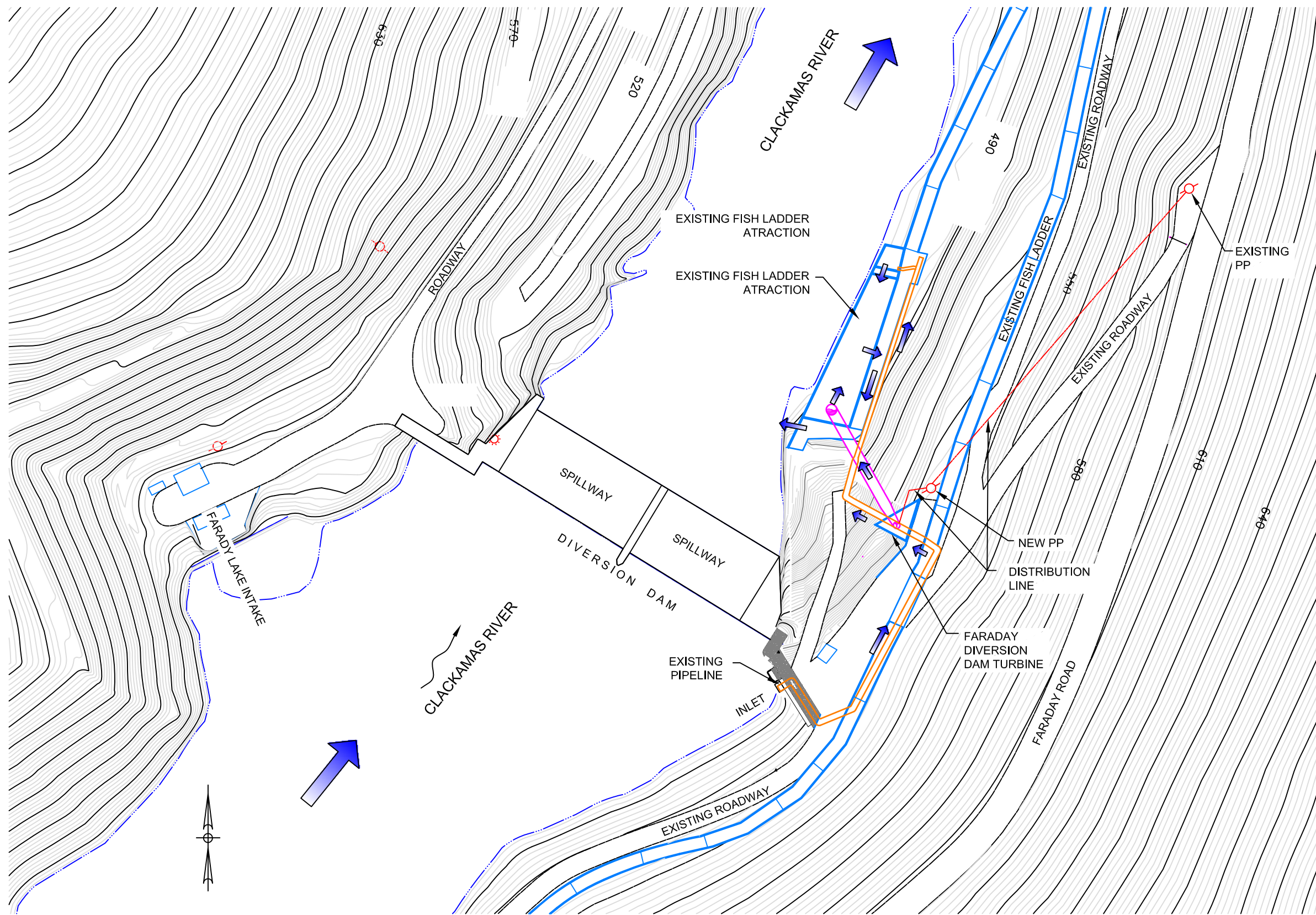
10
POWERHOUSE TYPICAL SECTION
 SCALE: 1/8" = 1'-0"

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| EXHIBIT F | SHEET 11 |
| NORTH FORK DEVELOPMENT NORTH FORK RETURN FLOW TURBINES TYPICAL SECTIONS | |
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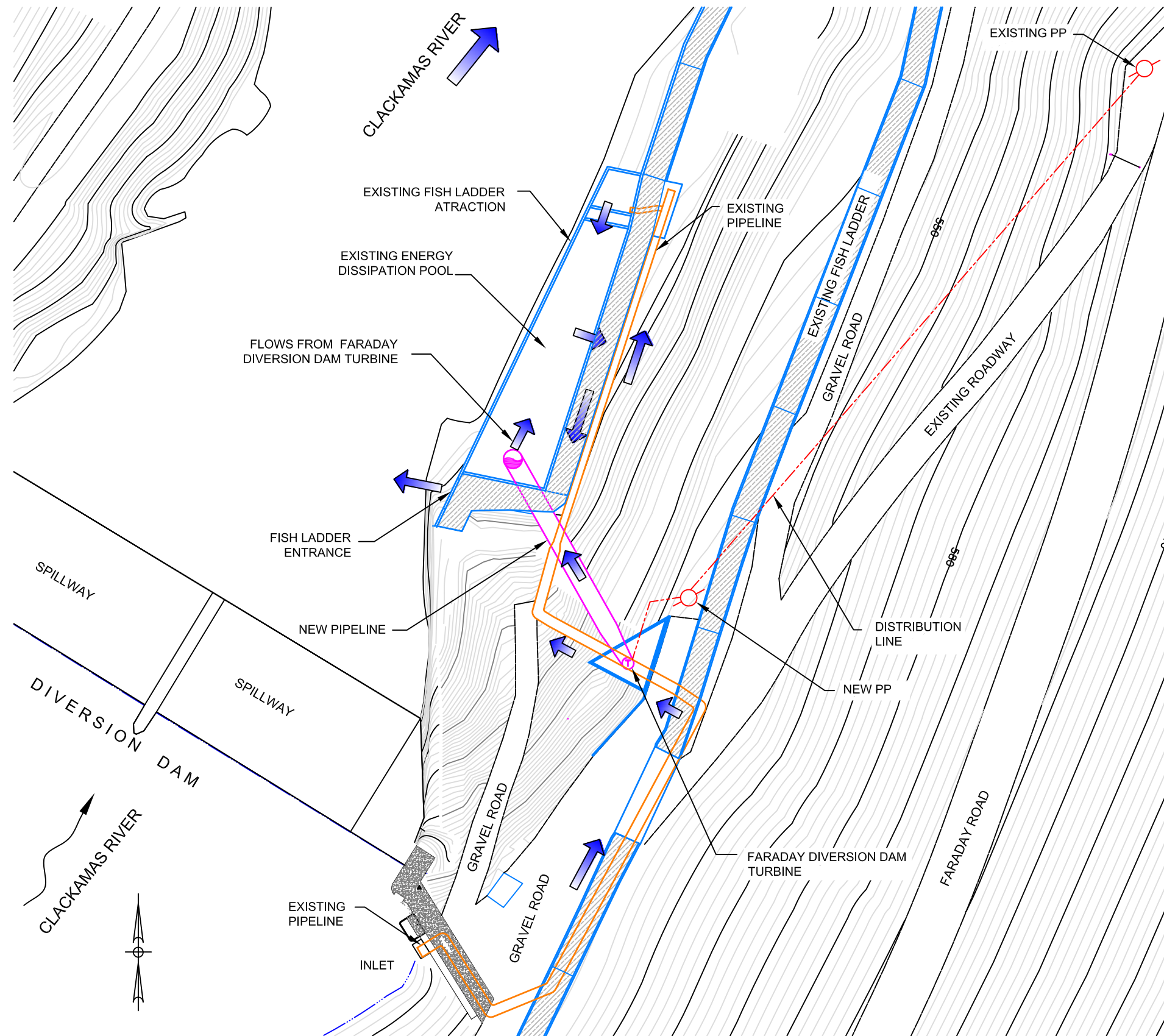
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11 LOCATION PLAN
SCALE: 1:80

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| EXHIBIT F | SHEET 12 |
| FARADAY DEVELOPMENT FARADAY DIVERSION DAM TURBINE LOCATION PLAN | |
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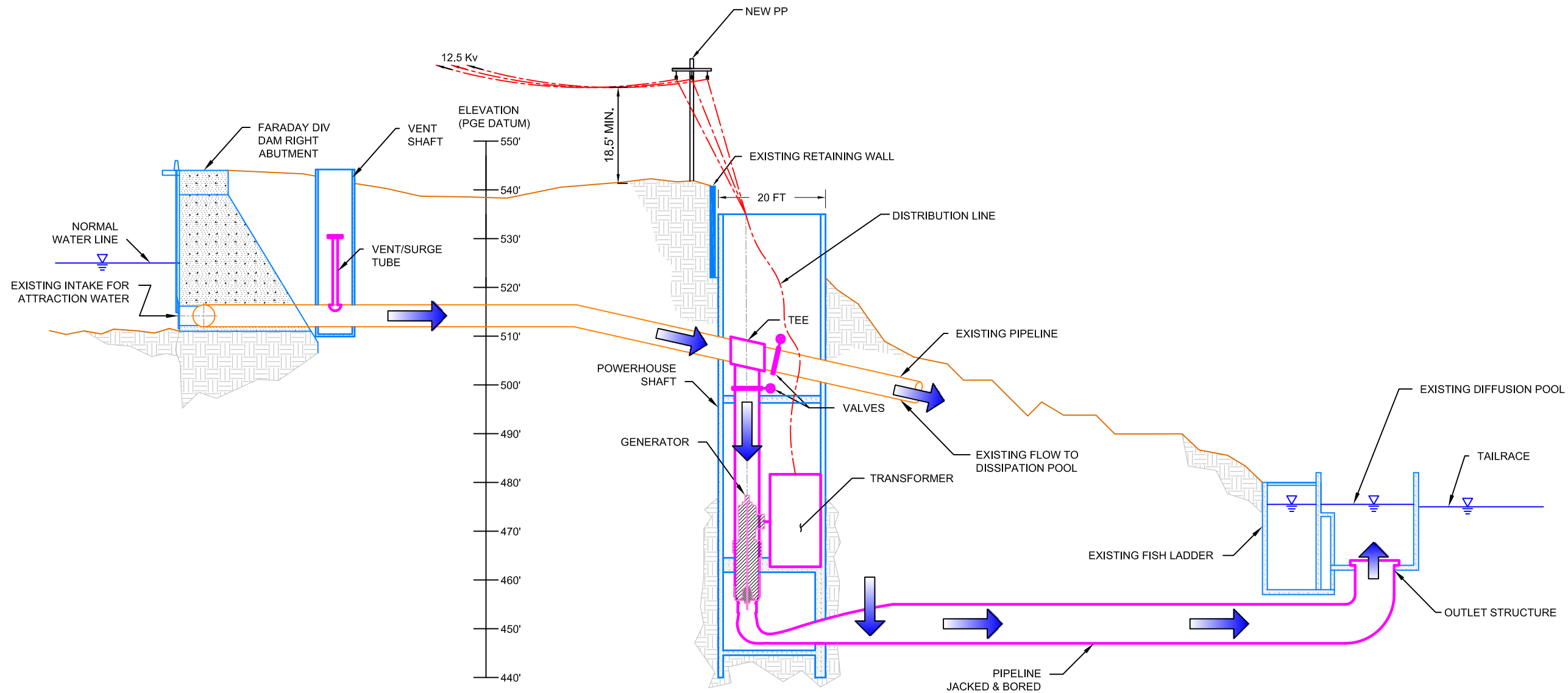
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12 LOCATION PLAN
SCALE: 1:50

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| EXHIBIT F | SHEET 13 |
| FARADAY DEVELOPMENT FARADAY DIVERSION DAM TURBINE PLAN | |
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13 PIPELINE PROFILE
 SCALE: 1/2"=1'

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| EXHIBIT F | SHEET 14 |
| FARADAY DEVELOPMENT FARADAY DIVERSION DAM TURBINE PROFILE SECTION | |
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