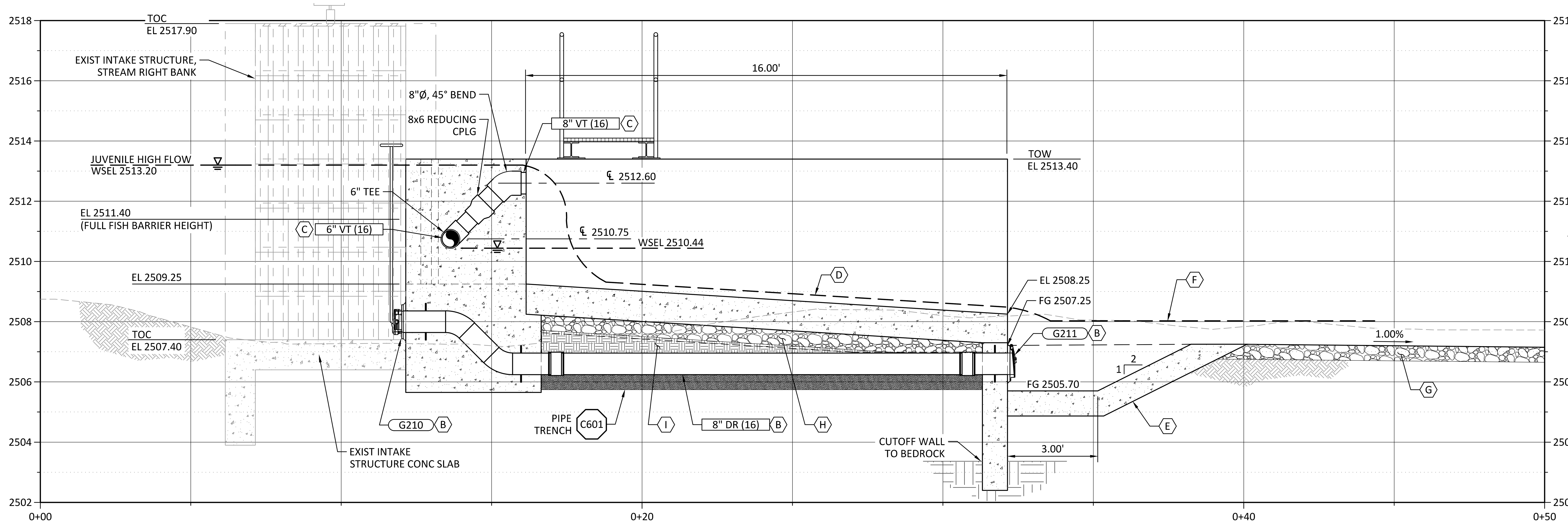
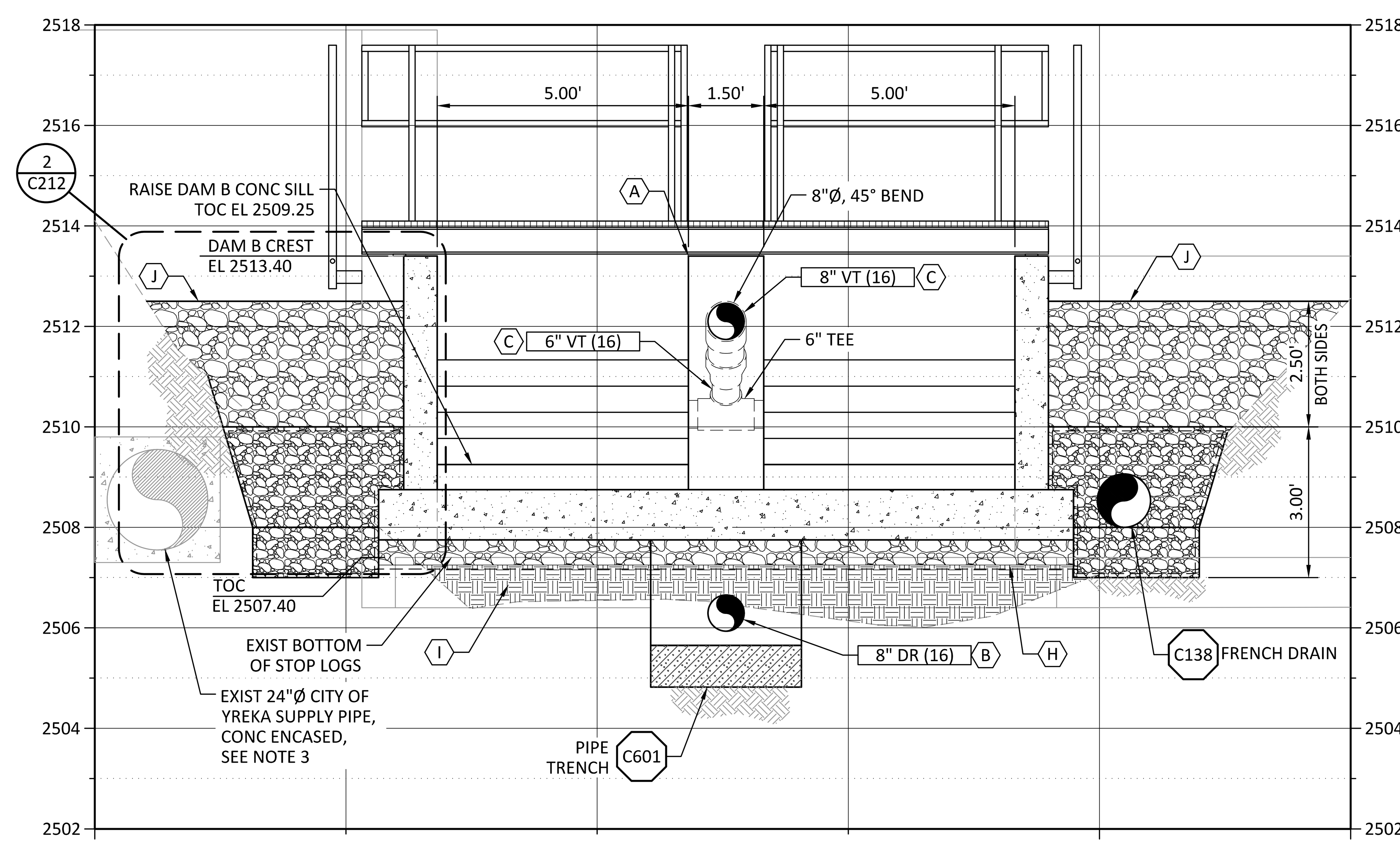


SECTION A C210
SCALE: 1"= 2'



SECTION B C210
SCALE: 1"= 2'

SHEET NOTES:

1. ALL EARTHWORKS MATERIALS ARE TO BE PLACED AND COMPACTED ACCORDING TO SPECIFICATION 31 00 00.
2. EXIST DAM B DIMENSIONS AND ELEVATIONS ARE BASED ON AS-BUILT DATA PROVIDED BY THE CITY OF YREKA, BUT MAY BE SUBJECT TO SOME VARIATION. PRIOR TO DEVELOPMENT OF SHOP DRAWINGS, CONTRACTOR TO CONFIRM ALL EXIST DIMENSIONS OF DAM. IF DIMENSIONS VARY SIGNIFICANTLY FROM THOSE REPORTED, CONTRACTOR TO COORDINATE WITH THE OWNER AND ENGINEER.
3. PRIOR TO ANY EXCAVATION FOR THE CONC VELOCITY APRON OR THE ASSOCIATED EARTHWORKS, CONTRACTOR SHALL FIELD LOCATE THE EXIST CITY OF YREKA SUPPLY LINE. THE CITY OF YREKA SUPPLY LINE SHALL NOT BE IMPACTED AND SHALL REMAIN IN SERVICE THROUGHOUT THE CONSTRUCTION DURATION.

SHEET KEY NOTES:

A. SEE STRUCTURAL FOR CONC INVERT RAISE, NEW FABRICATED STOP LOGS, NEW FABRICATED NAPPE EXTENSION FITTINGS, AND WALKWAY.

B. SEE MECHANICAL FOR 8" DRAIN PIPE, PIPE PENETRATIONS, AND GATES. SEE DEMO SHEETS FOR DEMOLITION OF EXIST CONC APRON.

C. CAST VENT PIPE IN THE RECONSTRUCTED CENTRAL PIER AS SHOWN WITH 6" TEE ORIENTED AT 45° TO HORIZONTAL, AND 8x6 REDUCING COUPLING. VT PIPE INLET WILL BE LOCATED ON THE DOWNSTREAM FACE OF THE CONC PIER AT CENTERLINE EL 2512.60, AND THE OUTLETS WILL BE LOCATED EITHER SIDE OF THE PIER AT CENTERLINE EL 2510.75. ALL OPEN ENDS SHALL BE FITTED WITH SST BIRD SCREENS.

D. THE EXPECTED FLOW CONDITIONS ON THE CONC VELOCITY APRON ARE SUMMARIZED BELOW:
   - JUVENILE HIGH FLOW (62 CFS)
     - FLOW DEPTH: 4.9"
     - FLOW VELOCITY: 13.1 FT/S
   - ADULT HIGH FLOW (57 CFS)
     - FLOW DEPTH: 4.7"
     - FLOW VELOCITY: 12.7 FT/S

E. AT THE OUTLET OF THE 8" DR PIPE, CONSTRUCT 3.0'W X 3.0'L CONC POOL AT FG 2505.70 AROUND OUTLET OF DRAIN PIPE WITH 2H:1V SIDE SLOPES UP TO CHANNEL INVERT, SEE STRUCTURAL FOR DETAILS.

F. THE EXPECTED FLOW CONDITIONS IN THE REGRADED CHANNEL IMMEDIATELY DOWNSTREAM OF THE VELOCITY APRON ARE SUMMARIZED BELOW:
   - JUVENILE HIGH FLOW (62 CFS)
     - FLOW DEPTH: 11.7"
     - FLOW VELOCITY: 3.9 FT/S
   - ADULT HIGH FLOW (57 CFS)
     - FLOW DEPTH: 11.1"
     - FLOW VELOCITY: 3.8 FT/S

G. REGRADE THE DOWNSTREAM CHANNEL FROM IE 2507.25 AT TOE OF CONC VELOCITY APRON DOWNWARD AT 1.0% SLOPE FOLLOWING THE EXIST CREEK ALIGNMENT UNTIL EXIST GRADE IS MET (APPROX 25'). EXTEND EXIST BANKS DOWN TO THE REQUIRED INVERT ELEV AT 2H:1V SLOPE, TYP. WHERE NOT IN BEDROCK, OVER EXCAVATE 6" BELOW THE REQUIRED INVERT ELEVATION, AND DURING EXCAVATION RETAIN EXIST CHANNEL SURFACE MATERIAL. FOLLOWING EXCAVATION, RELINE THE EXIST CHANNEL WITH THE EXIST SURFACE MATERIAL.

H. PLACE AND COMPACT 6" THICK TYPE DRG LEVELING LAYER WITH 12oz NON-WOVEN GEOTEXTILE UNDERLAY PER SPEC 31 00 00 AND 31 05 19 IMMEDIATELY UNDER THE CONC VELOCITY APRON. AT EDGE OF STRUCTURE TIE-IN THE LEVELING LAYER TO THE DRAIN ROCK OF THE TWO PERIPHERAL FRENCH DRAINS.

I. BACKFILL TO BOTTOM OF TYPE DRG LEVELING LAYER WITH TYPE SF FILL AND COMPACT TO 95% MAX DRY DENSITY ACCORDING TO ASTM D 1557 (MODIFIED PROCTOR) PER SPEC 31 00 00.

J. PLACE 30" THICK LAYER OF TYPE IV RIPRAP PER SPEC 31 37 00 BEHIND WALLS EITHER SIDE OF THE NEW CONC VELOCITY APRON, WITH 12 OZ NON-WOVEN GEOTEXTILE UNDERLAY. WHERE ADJACENT SLOPES ARE BEDROCK, PLACE TO ADJACENT SLOPES. WHERE ADJACENT SLOPES ARE SOIL, EXCAVATE AND LINE 30" THICK LAYER 2.0' UP THE SLOPE.

REV	DATE	BY	DESCRIPTION
0	10/28/20	MDM	ISSUED FOR CONSTRUCTION

REGISTERED PROFESSIONAL ENGINEER
VINCENT PHILIPPE AUTIER
C 89951
CIVIL
STATE OF CALIFORNIA
10/28/2020

WARNING
0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

McMILLEN JACOBS ASSOCIATES

KLAMATH RIVER RENEWAL CORPORATION

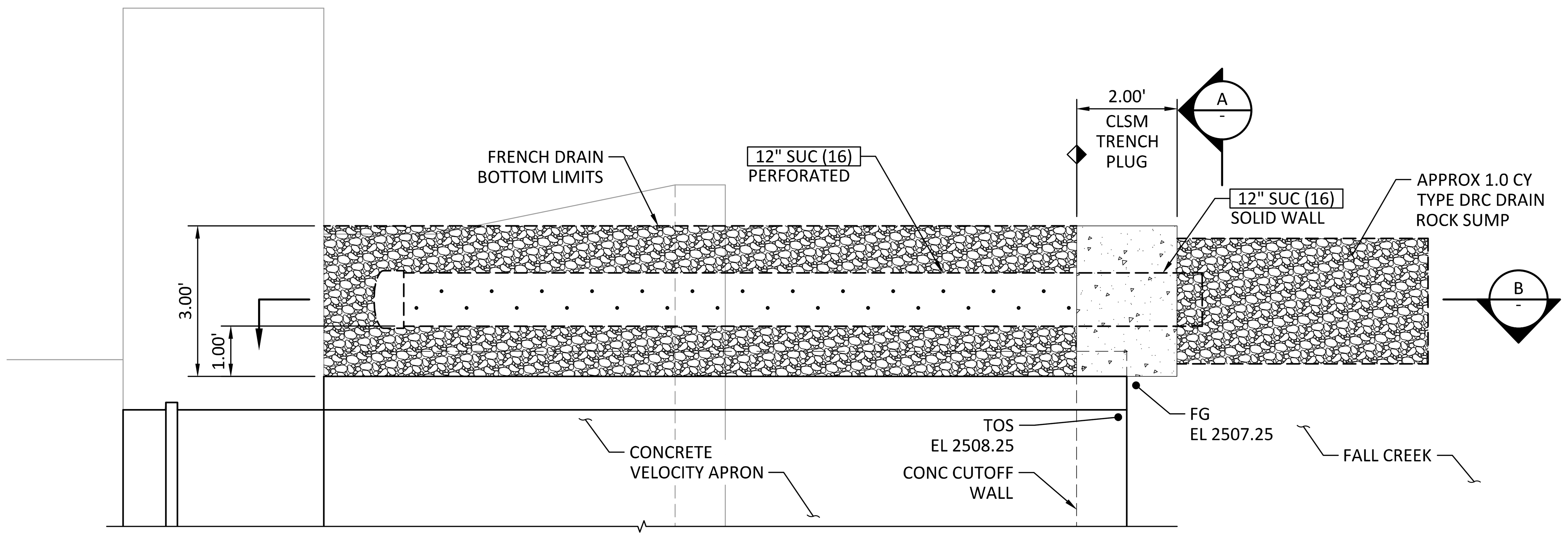
KLAMATH RIVER RENEWAL CORPORATION
FALL CREEK FISH HATCHERY
DAM B MODIFICATIONS
SECTIONS

DESIGNED A. LEMAN
DRAWN J. LAHMON
CHECKED V. AUTIER
PROJECT DATE 10/28/20

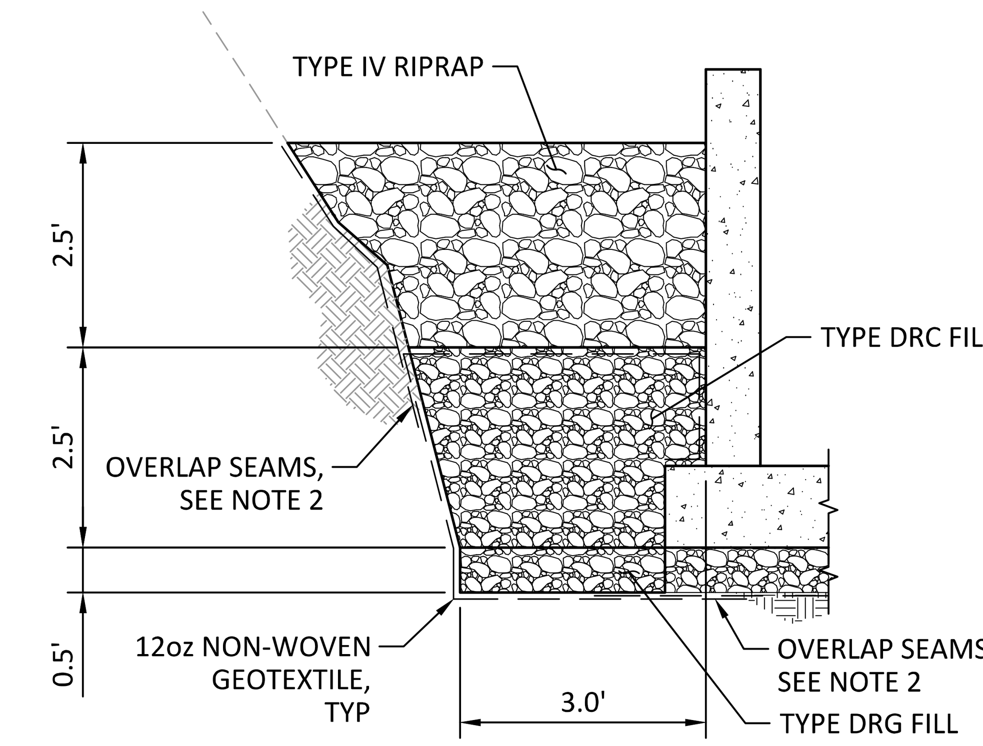
DRAWING
C211

JOB NO: 000000

Path: C:\Vault20\Klamath River Renewal Corp\Fall Creek Facility\C211.dwg Plot date: Oct 28, 2020 01:22pm, CAD User: Guerrero



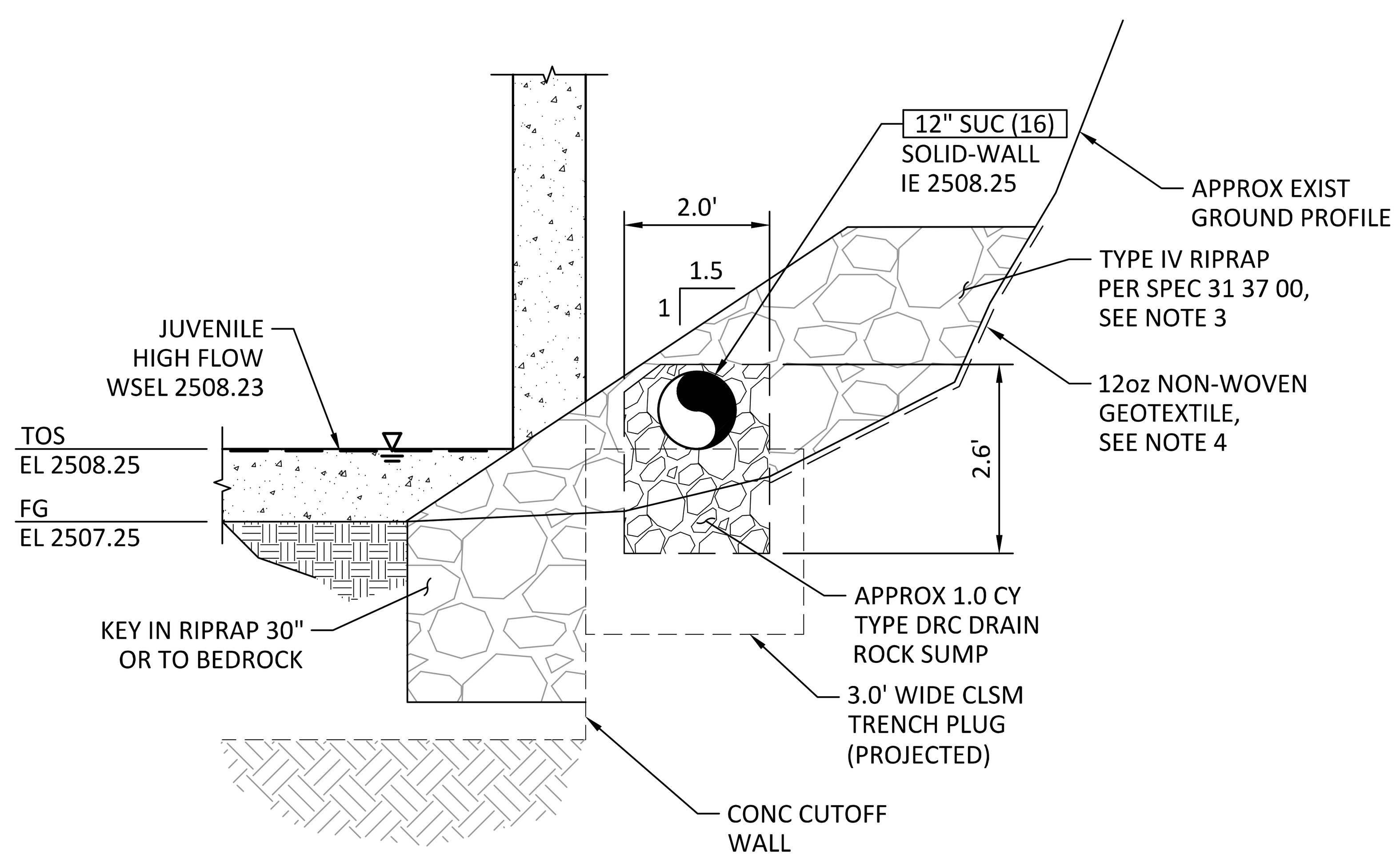
FRENCH DRAIN PLAN
SCALE: 1"= 2'
1 / C210



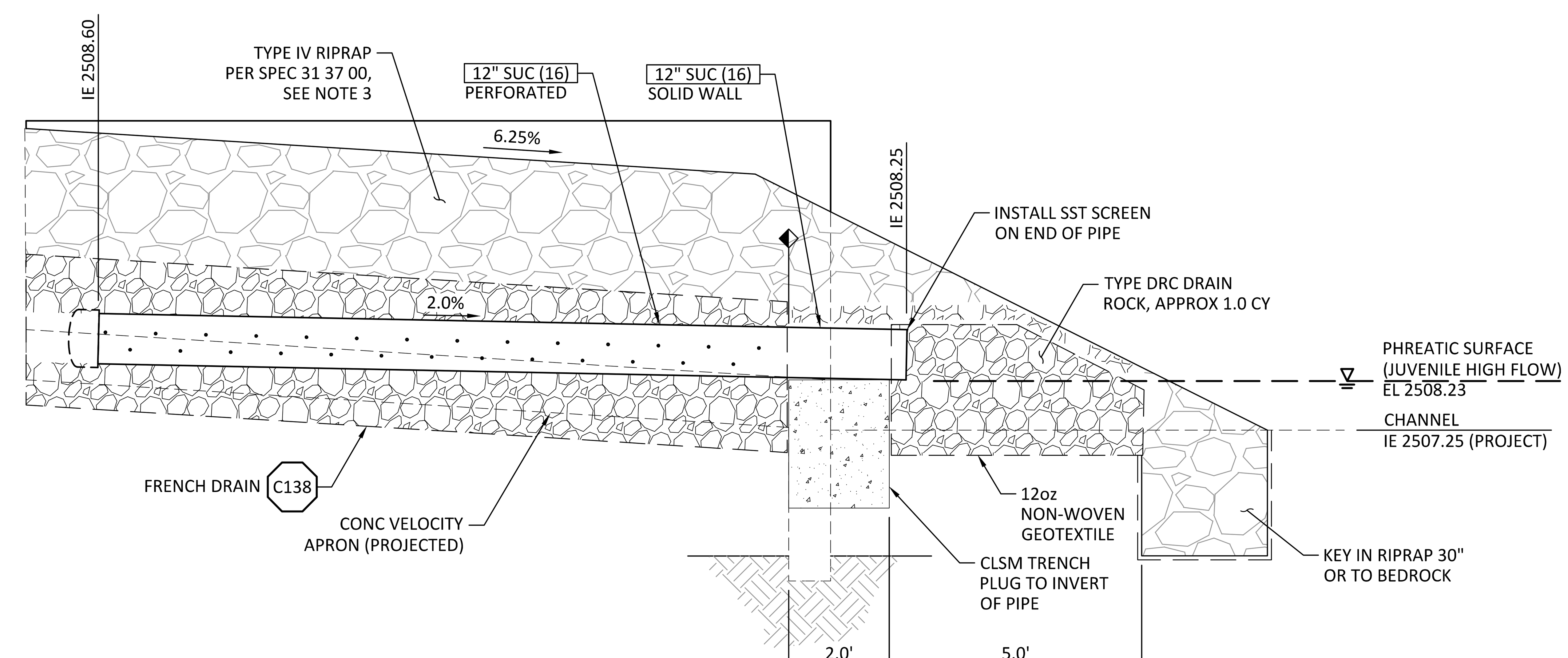
FRENCH DRAIN (NO PIPE) DETAIL
SCALE: 1"= 2'
2 / C211

SHEET NOTES:

1. RIPRAP NOT SHOWN IN PLAN ON THIS SHEET FOR CLARITY. FOR RIPRAP LAYER ABOVE FRENCH DRAIN SEE SHEETS C210 AND C211.
2. ALL NON-WOVEN GEOTEXTILE TO BE OVERLAPPED A MINIMUM OF 1.0' AT SEAMS. CARE SHALL BE TAKEN DURING STORAGE, PLACEMENT, AND COMPACTION OF DRAIN ROCK MATERIALS THAT DRAIN ROCK IS NOT CONTAMINATED WITH FINE MATERIALS OR EXISTING SOILS. AFTER PLACEMENT AND COMPACTION (TYPE DRG FILL ONLY) DRAIN ROCK IS TO BE IMMEDIATELY COVERED WITH GEOTEXTILE PRIOR TO FINAL BACKFILL.
3. TYPE IV RIPRAP SHALL BE PLACED BY LIGHT EQUIPMENT OVER THE FRENCH DRAIN. NO END DUMPING WILL BE PERMITTED ON TOP OF THE FRENCH DRAIN PIPE OR DRAIN ROCK.
4. TYPE IV RIPRAP SHALL HAVE 12OZ NON-WOVEN GEOTEXTILE WHERE PLACED AGAINST NATURAL GRADE, OR IN LOCATIONS OF EXCAVATION WHERE PLACED AGAINST BACKFILL MATERIAL.
5. ALL EARTHWORKS MATERIALS ARE TO BE PLACED AND COMPACTED ACCORDING TO SPECIFICATION 31 00 00.



SECTION
SCALE: 1"= 2'
A / -



SECTION
SCALE: 1"= 2'
B / -

Path: C:\Vault20\Klamath River Renewal Corp\Fall Creek Facility\C212.dwg Plot date: Oct 28, 2020 01:23pm, CAD User: Guerrero

REV	DATE	BY	DESCRIPTION
0	10/28/20	MDM	ISSUED FOR CONSTRUCTION

REGISTERED PROFESSIONAL ENGINEER
VINCENT PHILIPPE AUTIER
C 89951
CIVIL
STATE OF CALIFORNIA
10/28/2020

WARNING
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McMILLEN JACOBS ASSOCIATES

KLAMATH RIVER RENEWAL CORPORATION

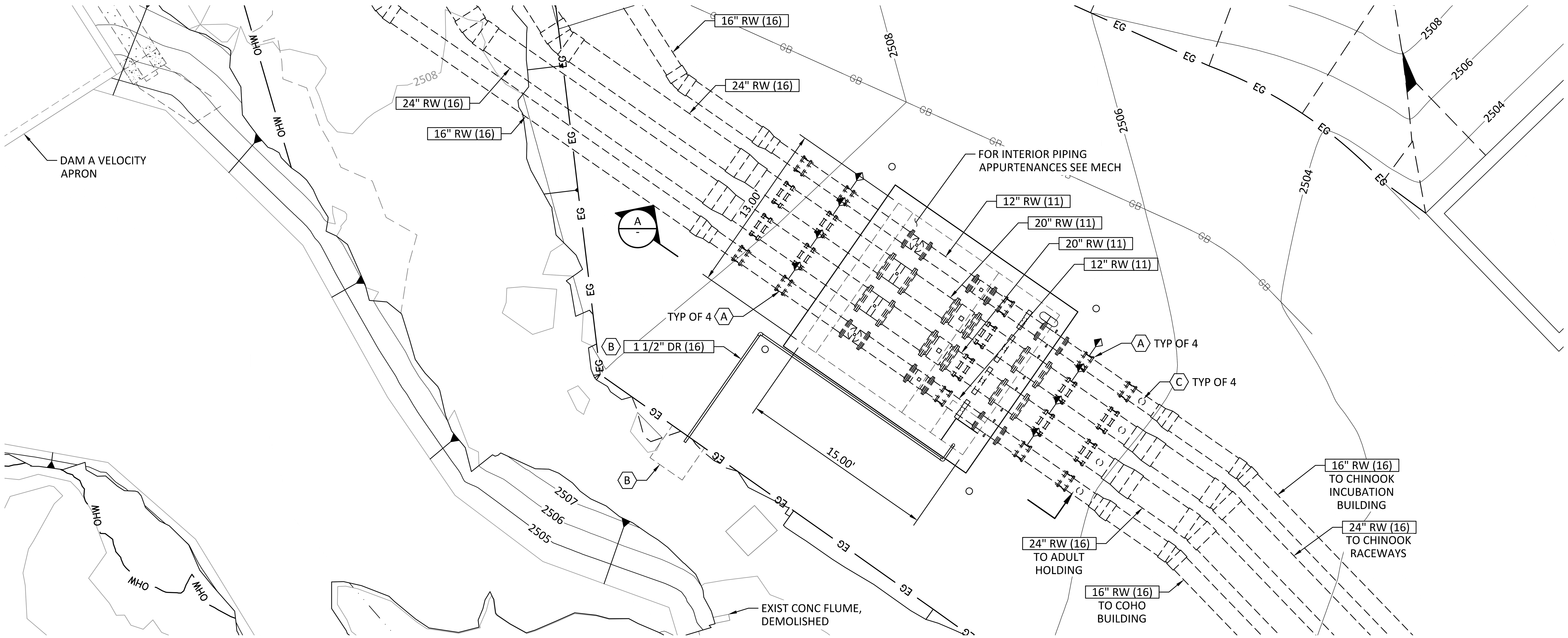
KLAMATH RIVER RENEWAL CORPORATION
FALL CREEK FISH HATCHERY

DAM B FRENCH DRAIN
SECTIONS AND DETAILS

DESIGNED A. LEMAN
DRAWN J. LAHMON
CHECKED V. AUTIER
PROJECT DATE 10/28/20

DRAWING
C212

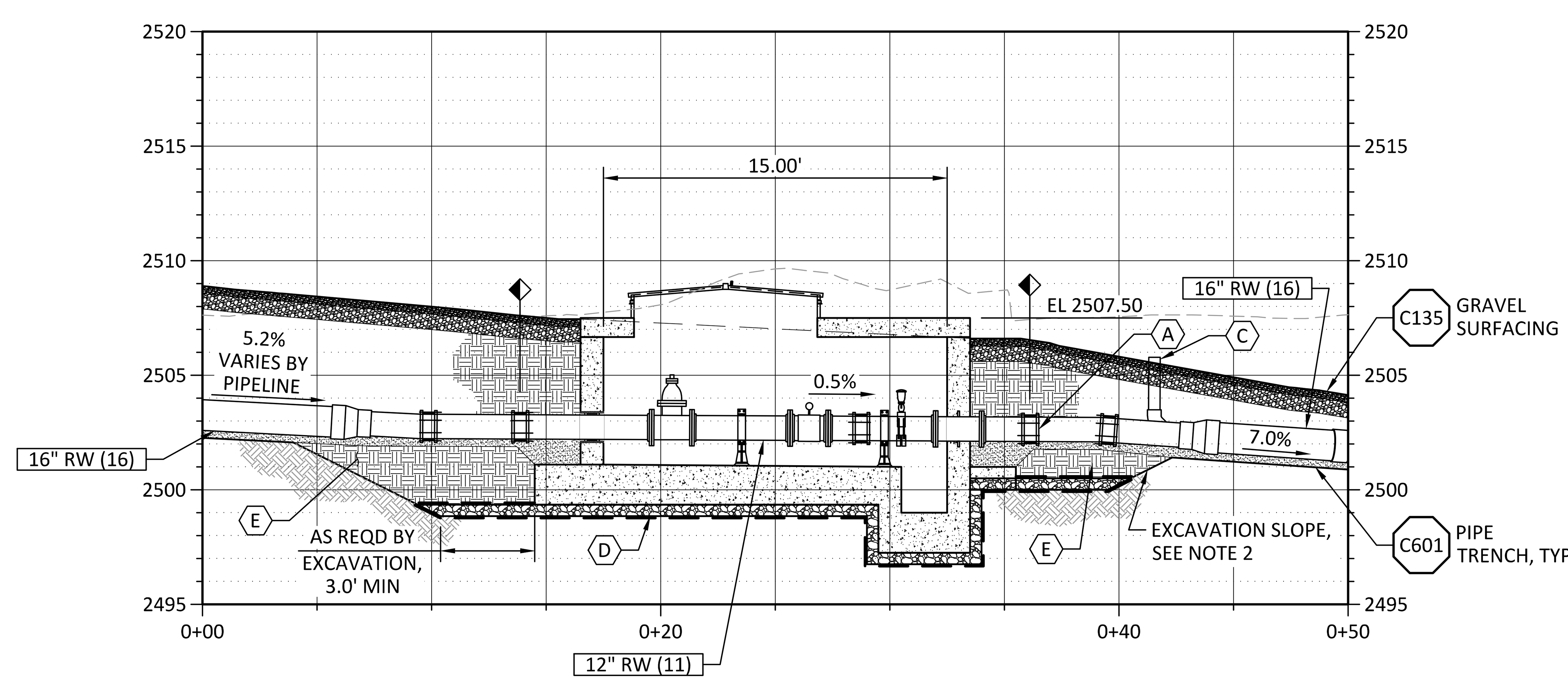
JOB NO: 000000



METER VAULT PLAN

SCALE: 1"= 5'

1 / C107



METER VAULT SECTION

SCALE: 1"= 5'

A / -

SHEET NOTES:

1. SEE STRUCTURAL FOR FACILITY DIMENSIONS. SEE MECHANICAL FOR ALL INTERIOR PIPING, PENETRATIONS AND APPURTENANCES.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING SAFE WORKING SLOPES BASED ON WORKING CONDITIONS, SOIL TYPE, MOISTURE CONTENT, ETC. ALL SLOPES SHALL MEET LOCAL, STATE, AND FEDERAL (OSHA) REQUIREMENTS.
3. ALL EARTHWORKS MATERIALS ARE TO BE PLACED AND COMPACTED ACCORDING TO SPECIFICATION 31 00 00.

SHEET KEY NOTES:

A EITHER SIDE OF THE METER VAULT TRANSITION BETWEEN PIPE MATERIAL (16) AND (11) (SEE SHEET G010 FOR PIPE SCHEDULE) VIA REDUCING SLEEVE COUPLING. REDUCING SLEEVE COUPLING TO BE ROMAC RC501, OR APPROVED EQUAL. IN TOTAL, (4) x 12"Ø DI x PVC REDUCING SLEEVE COUPLINGS AND (4) x 20"Ø DI x PVC REDUCING SLEEVE COUPLINGS.

B CONSTRUCT 1.0 CY DRAIN ROCK SUMP OF TYPE DRC MATERIAL WRAPPED IN A 12 OZ NON-WOVEN GEOTEXTILE. DRAIN ROCK SUMP DIMENSIONS SHALL BE 3.0' WIDE x 3.0' LONG x 3.0' DEEP, AND SHALL MAINTAIN 6" OF VEGETATED TOPSOIL ABOVE. ROUTE 1.5"Ø METER VAULT SUMP PUMP DISCHARGE TO THE DRAIN ROCK SUMP 24" BELOW FINISHED GRADE.

C FOR ALL PIPING FITTINGS AND APPURTENANCES, OUTSIDE OF THE METER VAULT, SEE PIPING PLANS AND PROFILES.

D PLACE 6" THICK LAYER OF TYPE DRC FILL PER SPEC 31 00 00 UNDER THE METER VAULT, AND UNDERLAY WITH 12 OZ NON-WOVEN GEOTEXTILE. EXTEND TYPE DRC LAYER AND GEOTEXTILE A MINIMUM OF 3.0' BEYOND THE FOOTPRINT OF THE METER VAULT. WRAP NON-WOVEN GEOTEXTILE OVER THE TYPE DRC FILL IN ALL AREAS OUTSIDE OF THE METER VAULT FOOTPRINT.

E PLACE AND COMPACT TYPE C FILL TO 95% DRY DENSITY ACCORDING TO ASTM D 1557 (MODIFIED PROCTOR) PER SPEC 31 00 00.

Path: C:\Vault20\Klamath River Renewal Corp\Fall Creek Facility\C215.dwg Plot date: Oct 28, 2020 01:24pm, CAD User: Guerrero

REV	DATE	BY	DESCRIPTION
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REGISTERED PROFESSIONAL ENGINEER VINCENT PHILIPPE AUTIER C 89951 CIVIL STATE OF CALIFORNIA
10/28/2020

WARNING
0 1/2 1
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McMILLEN JACOBS ASSOCIATES

KLAMATH RIVER RENEWAL CORPORATION

KLAMATH RIVER RENEWAL CORPORATION
FALL CREEK FISH HATCHERY

METER VAULT
PLAN AND SECTION

DESIGNED A. LEMAN
DRAWN R. GUERRERO
CHECKED V. AUTIER
PROJECT DATE 10/28/20

DRAWING
C215

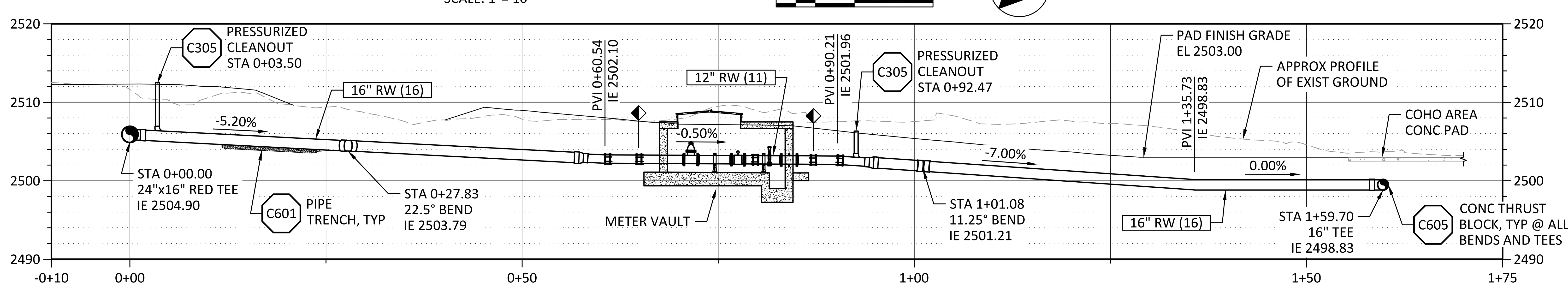
JOB NO: 000000

SHEET NOTES:

1. SUPPLY PIPE TO MAINTAIN MINIMUM 2.0' COVER OVER CROWN OF PIPE ALONG ENTIRE PIPELINE LENGTH. WHERE NOT ATTAINABLE, OR WHERE SHOWN OTHERWISE ON THE PROFILE, PIPE IS TO BE ENCASED IN CLSM PER SPECIFICATION 31 23 00.
2. ALL ELEVATIONS SHOWN ON THIS SHEET ARE INVERT ELEVATIONS.

COHO BUILDING WATER SUPPLY PLAN

SCALE: 1"= 10'



PROFILE

SCALE: 1"= 10'

Path: C:\Vault20\Klamath River Renewal Corp\Fall Creek Facility\C300.dwg Plot date: Oct 28, 2020 01:24pm, CAD User: Guerrero

REV	DATE	BY	DESCRIPTION
0	10/28/20	MDM	ISSUED FOR CONSTRUCTION

REGISTERED PROFESSIONAL ENGINEER VINCENT PHILIPPE AUTIER C 89951 CIVIL STATE OF CALIFORNIA 10/28/2020

WARNING
0 1/2 1
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McMILLEN JACOBS ASSOCIATES

KLAMATH RIVER RENEWAL CORPORATION

KLAMATH RIVER RENEWAL CORPORATION

FALL CREEK FISH HATCHERY

COHO BUILDING
WATER SUPPLY
PLAN AND PROFILE

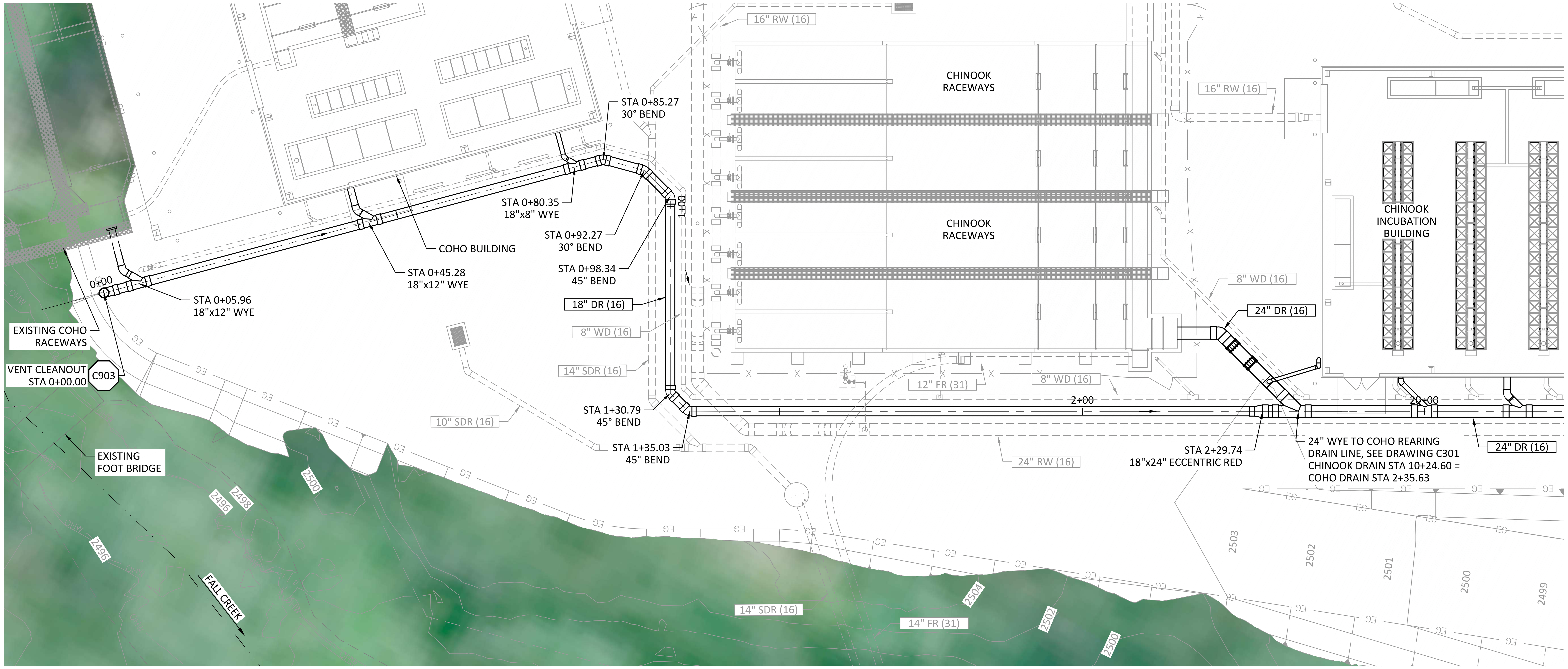
DESIGNED A. LEMAN
DRAWN J. LAHMON
CHECKED V. AUTIER
PROJECT DATE 10/28/20

DRAWING
C300

JOB NO: 000000

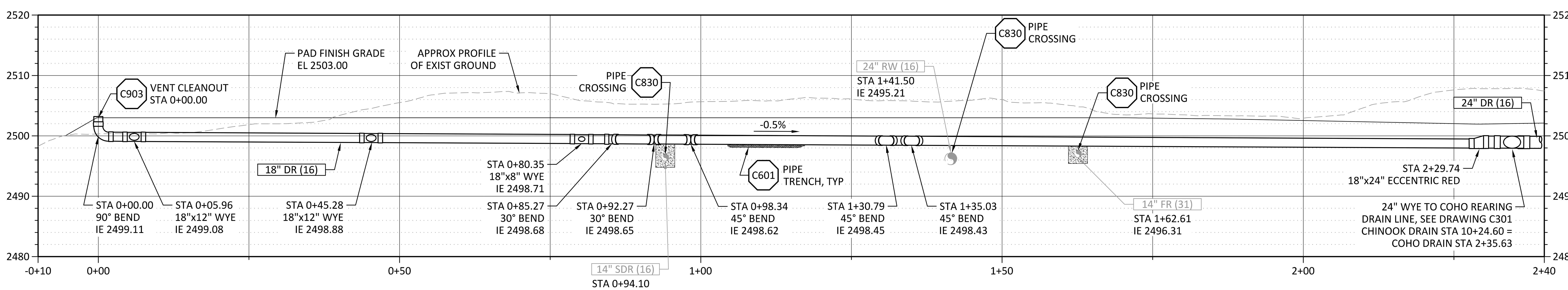
SHEET NOTES:

1. ALL INTERIOR PIPING AND PLUMBING IS SHOWN ON THE MECHANICAL SHEETS.
2. DRAIN PIPE TO MAINTAIN MINIMUM 2.0' COVER OVER CROWN OF PIPE ALONG ENTIRE PIPELINE LENGTH. WHERE NOT ATTAINABLE, OR WHERE SHOWN OTHERWISE ON THE PROFILE, PIPE IS TO BE ENCASED IN CLSM PER SPECIFICATION 31 23 00.
3. ALL PIPE ELEVATIONS SHOWN ON THIS SHEET ARE INVERT ELEVATIONS.



COHO BUILDING DRAIN PLAN

SCALE: 1"= 10'



PROFILE

SCALE: 1"= 10'

REV	DATE	BY	DESCRIPTION
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REGISTERED PROFESSIONAL ENGINEER VINCENT PHILIPPE AUTIER C 89951 CIVIL STATE OF CALIFORNIA 10/28/2020

WARNING 0 1/2 1 IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

McMILLEN JACOBS ASSOCIATES

KLAMATH RIVER RENEWAL CORPORATION

KLAMATH RIVER RENEWAL CORPORATION

FALL CREEK FISH HATCHERY

COHO BUILDING
DRAIN
PLAN AND PROFILE

DESIGNED A. LEMAN
DRAWN J. LAHMON
CHECKED V. AUTIER
PROJECT DATE 10/28/20

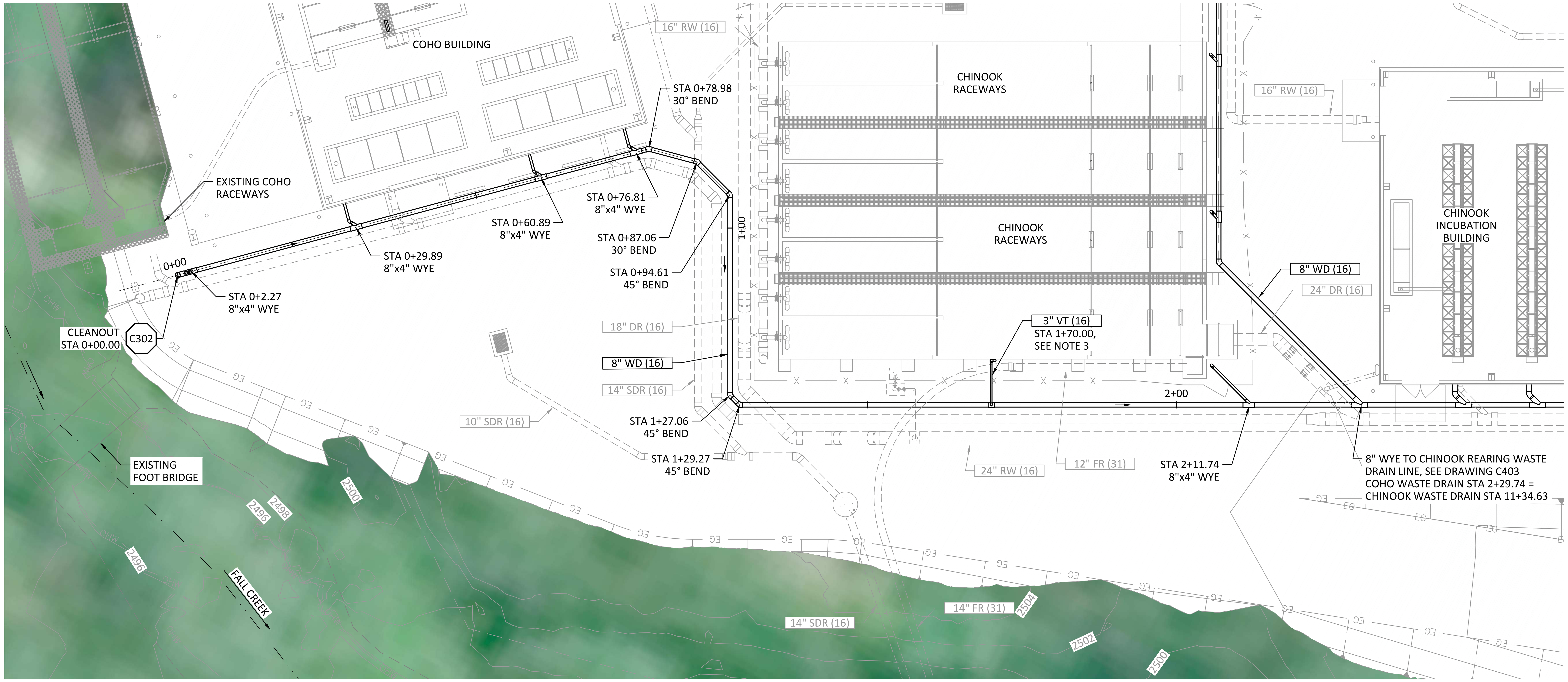
DRAWING C301

JOB NO: 000000

Path: C:\Vault20\Klamath River Renewal Corp\Fall Creek Facility\C301.dwg Plot date: Oct 28, 2020 01:25pm, CAD User: Guerrero

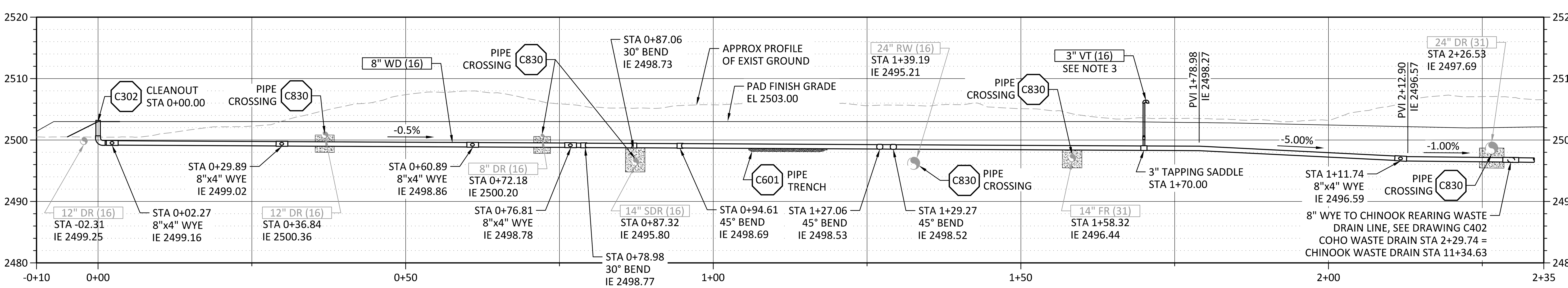
SHEET NOTES:

1. ALL INTERIOR PIPING AND PLUMBING IS SHOWN ON THE MECHANICAL SHEETS.
2. ALL PIPE ELEVATIONS SHOWN ON THIS SHEET ARE INVERT ELEVATIONS.
3. RUN BURIED VENT PIPE TO THE CHINOOK RACEWAY WALL WITH 2.0' MIN COVER, AND ANCHOR VENT RISER TO THE WALL UP TO EL 2506.00 USING PIPE CLAMPS PER MECHANICAL STANDARD DETAIL M901. TERMINATE IN GOOSE NECK (2x90°) WITH SST BIRD SCREEN.



COHO BUILDING WASTE DRAIN PLAN

SCALE: 1"= 10'



PROFILE

SCALE: 1"= 10'

REV	DATE	BY	DESCRIPTION
0	10/28/20	MDM	ISSUED FOR CONSTRUCTION

REGISTERED PROFESSIONAL ENGINEER VINCENT PHILIPPE AUTIER C 89951 CIVIL STATE OF CALIFORNIA 10/28/2020

WARNING
0 1/2 1
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McMILLEN JACOBS ASSOCIATES

KLAMATH RIVER RENEWAL CORPORATION

KLAMATH RIVER RENEWAL CORPORATION
FALL CREEK FISH HATCHERY
COHO BUILDING WASTE DRAIN PLAN AND PROFILE

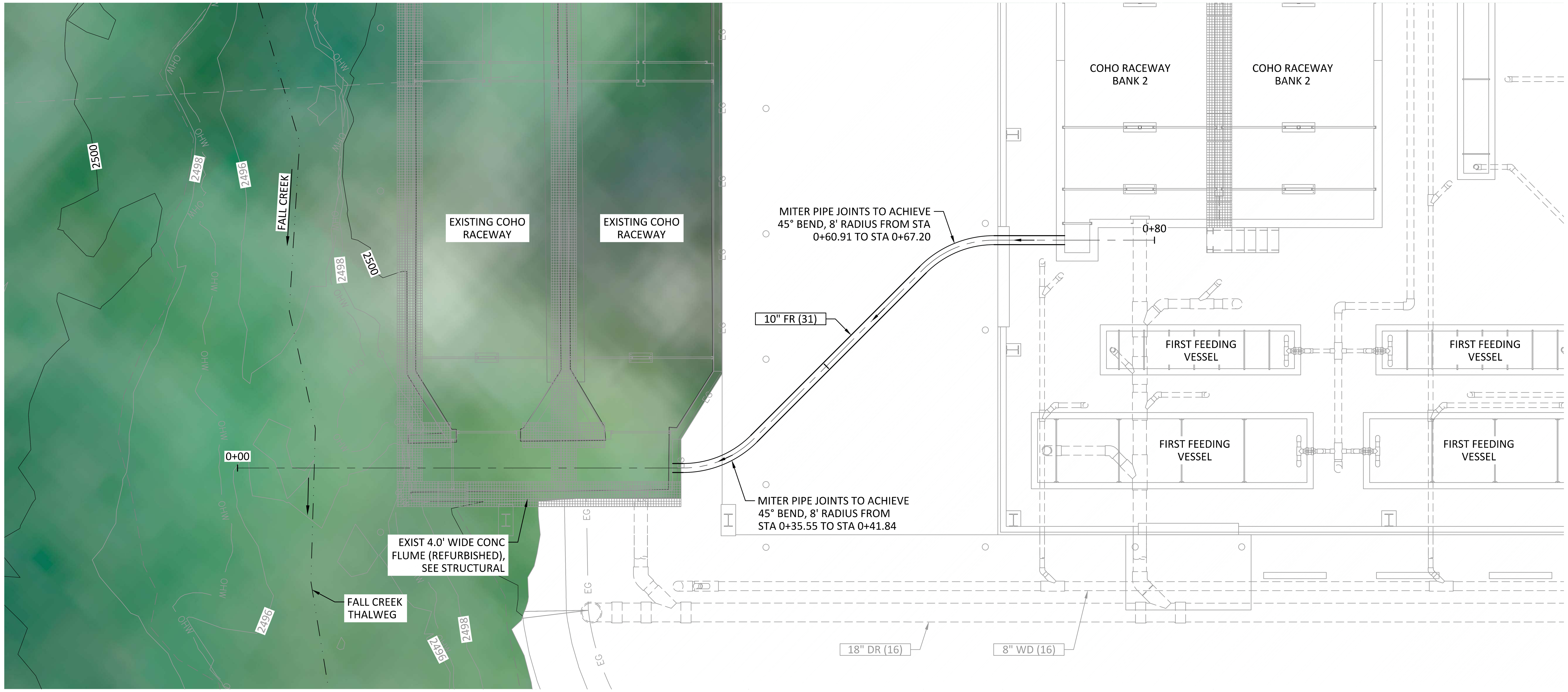
DESIGNED A. LEMAN
DRAWN J. LAHMON
CHECKED V. AUTIER
PROJECT DATE 10/28/20

DRAWING C302

JOB NO: 000000

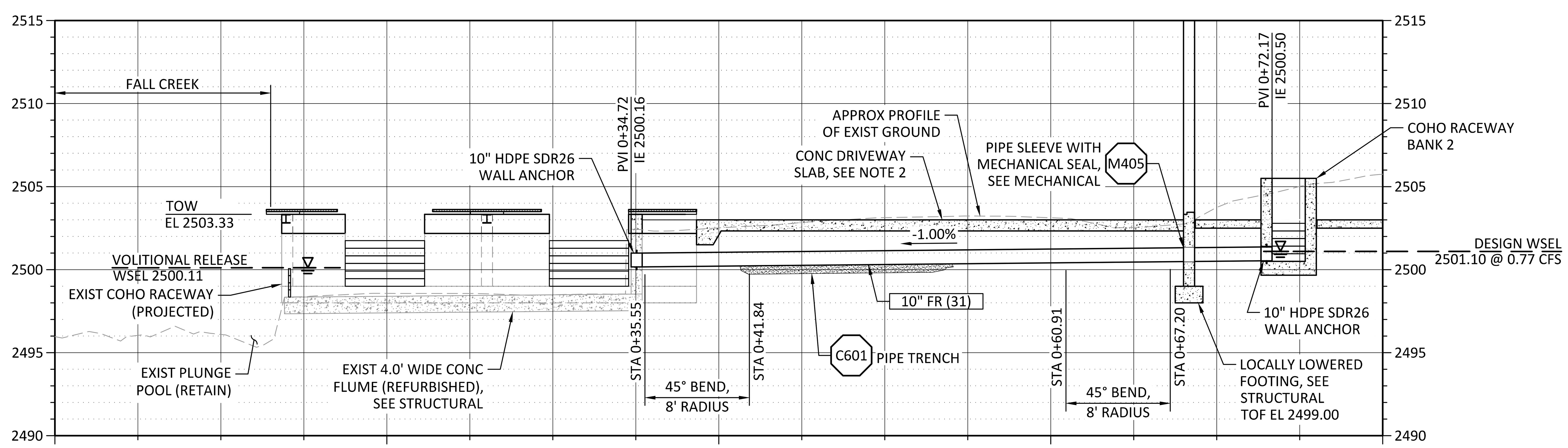
SHEET NOTES:

1. ALL PIPE ELEVATIONS SHOWN ON THIS SHEET ARE INVERT ELEVATIONS.
2. PIPE SHALL MAINTAIN MINIMUM 2.0' COVER TO TOP OF CONC DRIVEWAY SLAB.



COHO BUILDING FISH RELEASE PIPE PLAN

SCALE: 1"= 5'



PROFILE

SCALE: 1"= 5'

REV	DATE	BY	DESCRIPTION
0	10/28/20	MDM	ISSUED FOR CONSTRUCTION

REGISTERED PROFESSIONAL ENGINEER VINCENT PHILIPPE AUTIER C 89951 CIVIL STATE OF CALIFORNIA
10/28/2020

WARNING
0 1/2 1
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McMILLEN JACOBS ASSOCIATES

KLAMATH RIVER RENEWAL CORPORATION

KLAMATH RIVER RENEWAL CORPORATION
FALL CREEK FISH HATCHERY
COHO BUILDING FISH RELEASE PIPE PLAN AND PROFILE

DESIGNED A. LEMAN
DRAWN J. LAHMON
CHECKED V. AUTIER
PROJECT DATE 10/28/20

DRAWING C303

JOB NO: 000000

Path: C:\Vault20\Klamath River Renewal Corp\Fall Creek Facility\C303.dwg Plot date: Oct 28, 2020 01:26pm, CAD User: Guerrero

SHEET NOTES:

1. ALL INTERIOR PIPING AND PLUMBING IS SHOWN ON THE MECHANICAL SHEETS.
2. SUPPLY PIPE TO MAINTAIN MINIMUM 2.0' COVER OVER CROWN OF PIPE ALONG ENTIRE PIPELINE LENGTH. WHERE NOT ATTAINABLE, OR WHERE SHOWN OTHERWISE ON THE PROFILE, PIPE IS TO BE ENCASED IN CLSM PER SPECIFICATION 31 23 00.

CHINOOK RACEWAYS WATER SUPPLY PIPE PLAN

SCALE: 1"= 10'

0' 10' 20'

REV	DATE	BY	DESCRIPTION
0	10/28/20	MDM	ISSUED FOR CONSTRUCTION

REGISTERED PROFESSIONAL ENGINEER
VINCENT PHILIPPE AUTIER
C 89951
CIVIL
STATE OF CALIFORNIA
10/28/2020

WARNING

0 1/2 1

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McMILLEN JACOBS ASSOCIATES

KLAMATH RIVER RENEWAL CORPORATION

KLAMATH RIVER RENEWAL CORPORATION

FALL CREEK FISH HATCHERY

CHINOOK RACEWAYS WATER SUPPLY PLAN

DESIGNED A. LEMAN

DRAWN J. LAHMON

CHECKED V. AUTIER

PROJECT DATE 10/28/20

DRAWING

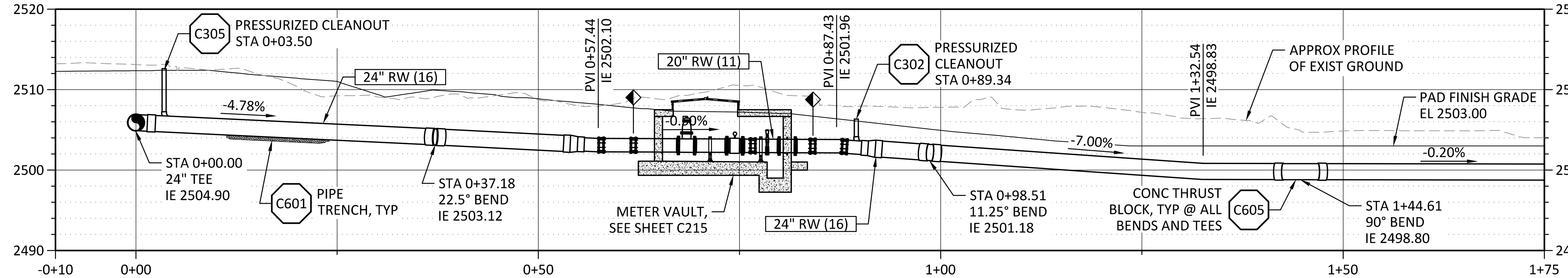
C400

JOB NO: 000000

Path: C:\Vault20\Klamath River Renewal Corp\Fall Creek Facility\C400.dwg Plot date: Oct 28, 2020 01:27pm, CAD User: Guerrero

SHEET NOTES:

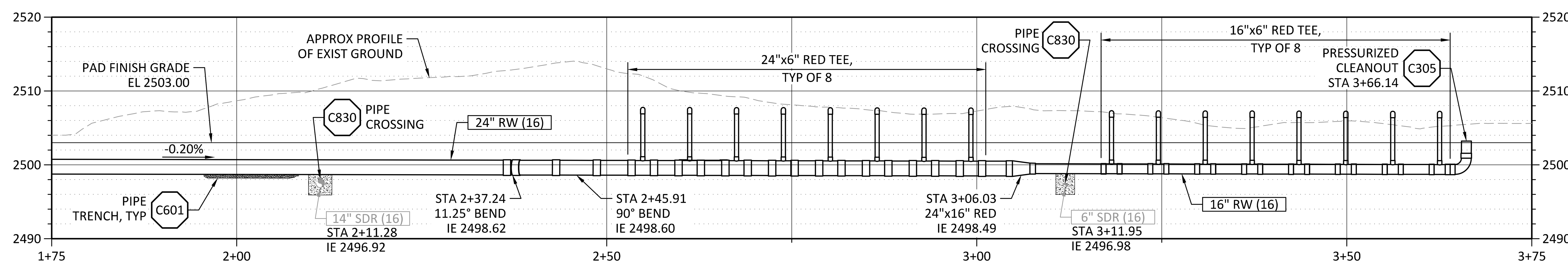
1. ALL INTERIOR PIPING AND PLUMBING IS SHOWN ON THE MECHANICAL SHEETS.
2. SUPPLY PIPE TO MAINTAIN MINIMUM 2.0' COVER OVER CROWN OF PIPE ALONG ENTIRE PIPELINE LENGTH. WHERE NOT ATTAINABLE, OR WHERE SHOWN OTHERWISE ON THE PROFILE, PIPE IS TO BE ENCASED IN CLSM PER SPECIFICATION 31 23 00.
3. ALL ELEVATIONS SHOWN ON THIS SHEET ARE INVERT ELEVATIONS.



PROFILE

SCALE: 1"= 10'

0' 10' 20'



PROFILE

SCALE: 1"= 10'

0' 10' 20'

REV	DATE	BY	DESCRIPTION
0	10/28/20	MDM	ISSUED FOR CONSTRUCTION

REGISTERED PROFESSIONAL ENGINEER
VINCENT PHILIPPE AUTIER
C 89951
CIVIL
STATE OF CALIFORNIA
10/28/2020

WARNING

0 1/2 1

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McMILLEN JACOBS ASSOCIATES

KLAMATH RIVER RENEWAL CORPORATION

KLAMATH RIVER RENEWAL CORPORATION

FALL CREEK FISH HATCHERY

CHINOOK RACEWAYS
WATER SUPPLY
PROFILE

DESIGNED A. LEMAN

DRAWN J. LAHMON

CHECKED V. AUTIER

PROJECT DATE 10/28/20

DRAWING

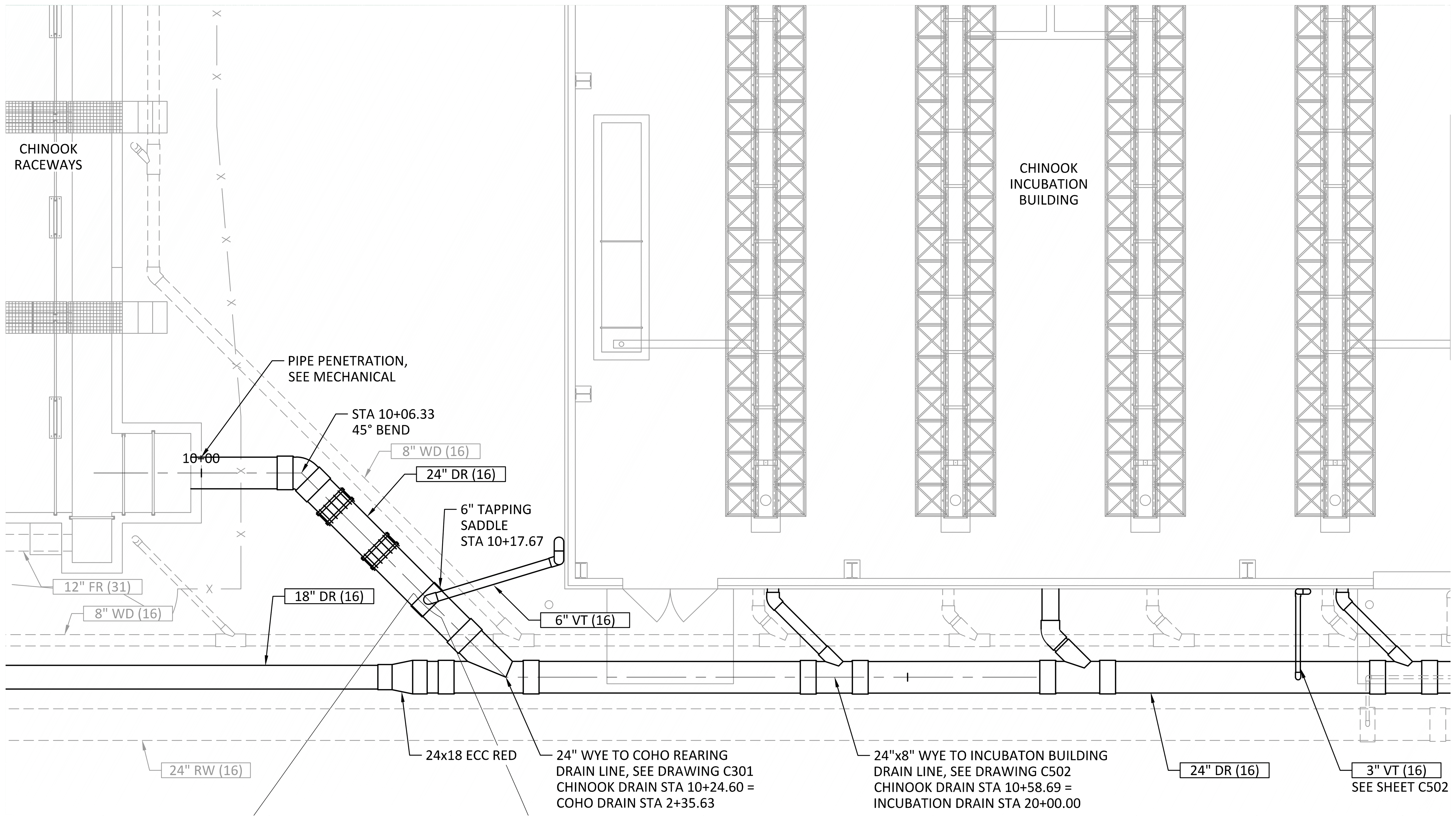
C401

JOB NO: 000000

Path: C:\Vault20\Klamath River Renewal Corp\Fall Creek Facility\C401.dwg Plot date: Oct 28, 2020 01:28pm, CAD User: Guerrero

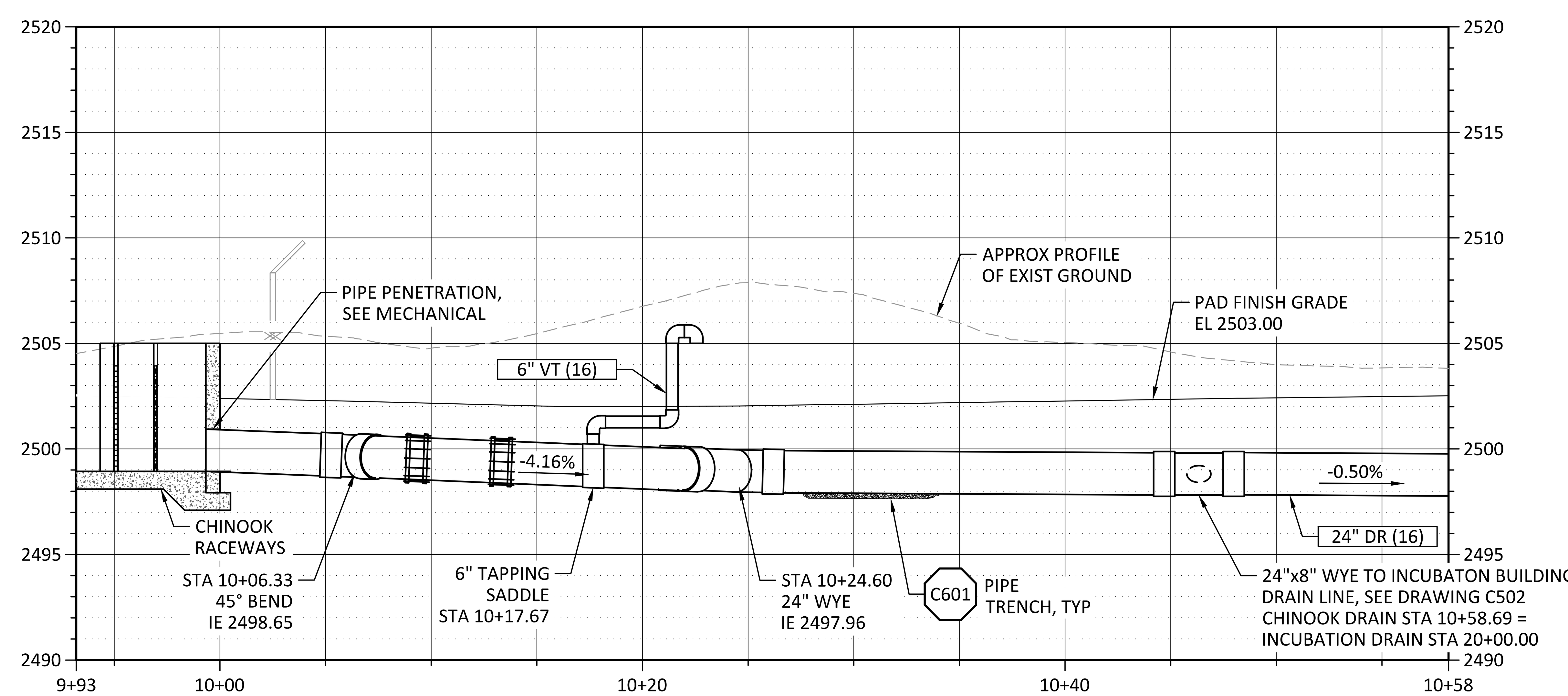
SHEET NOTES:

1. ALL INTERIOR PIPING AND PLUMBING IS SHOWN ON THE MECHANICAL SHEETS.
2. DRAIN PIPE TO MAINTAIN MINIMUM 2.0' COVER OVER CROWN OF PIPE ALONG ENTIRE PIPELINE LENGTH. WHERE NOT ATTAINABLE, OR WHERE SHOWN OTHERWISE ON THE PROFILE, PIPE IS TO BE ENCASED IN CLSM PER SPECIFICATION 31 23 00.
3. ALL PIPE ELEVATIONS SHOWN ON THIS SHEET ARE INVERT ELEVATIONS.
4. RUN BURIED VENT PIPE TO THE INCUBATION BUILDING WALL, AND ANCHOR VENT RISER TO THE WALL UP TO EL 2506.00 USING PIPE CLAMPS PER MECHANICAL STANDARD DETAIL M901. TERMINATE IN GOOSE NECK (2x90° BEND) WITH SST BIRD SCREEN. BACKFILL AROUND VENT PIPE WITH CLSM PER SPECIFICATION 31 23 00.



CHINOOK RACEWAYS DRAIN PLAN

SCALE: 1"= 5'



PROFILE

SCALE: 1"= 5'

Path: C:\Vault20\Klamath River Renewal Corp\Fall Creek Facility\C402.dwg Plot date: Oct 28, 2020 01:28pm, CAD User: Guerrero

REV	DATE	BY	DESCRIPTION
0	10/28/20	MDM	ISSUED FOR CONSTRUCTION

REGISTERED PROFESSIONAL ENGINEER VINCENT PHILIPPE AUTIER C 89951 CIVIL STATE OF CALIFORNIA
10/28/2020

WARNING
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IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

McMILLEN JACOBS ASSOCIATES

KLAMATH RIVER RENEWAL CORPORATION

KLAMATH RIVER RENEWAL CORPORATION
FALL CREEK FISH HATCHERY
CHINOOK RACEWAYS
DRAIN
PLAN AND PROFILE

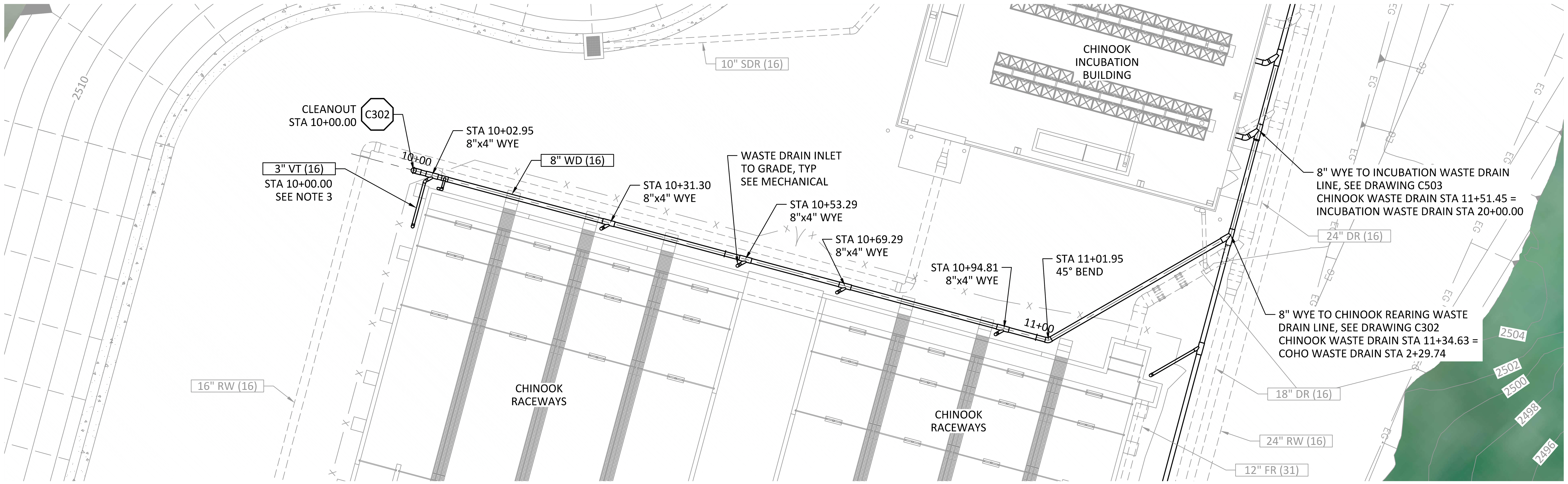
DESIGNED A. LEMAN
DRAWN J. LAHMON
CHECKED V. AUTIER
PROJECT DATE 10/28/20

DRAWING
C402

JOB NO: 000000

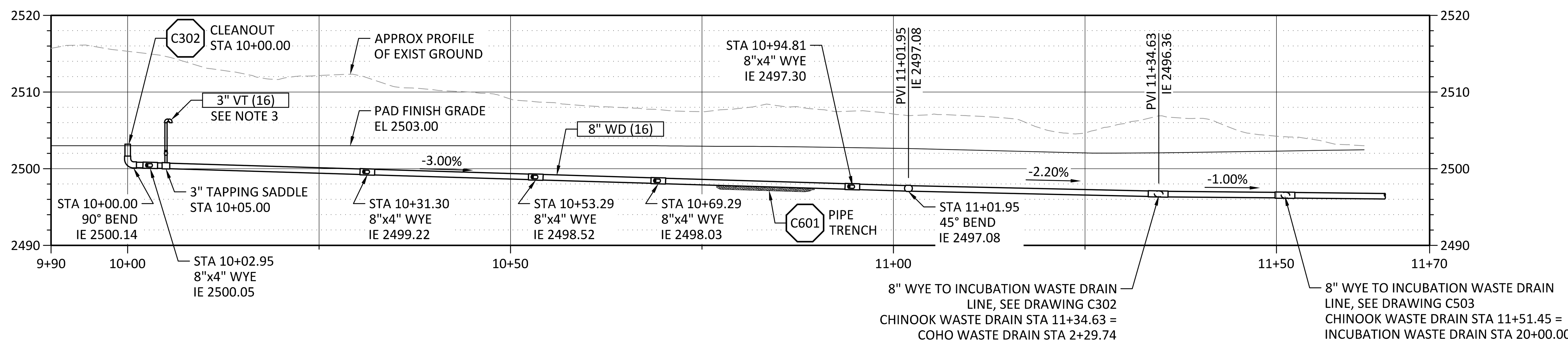
SHEET NOTES:

1. ALL INTERIOR PIPING AND PLUMBING IS SHOWN ON THE MECHANICAL SHEETS.
2. ALL ELEVATIONS SHOWN ON THIS SHEET ARE INVERT ELEVATIONS.
3. RUN BURIED VENT PIPE TO THE CHINOOK RACEWAY WALL WITH 2.0' MIN COVER, AND ANCHOR VENT RISER TO THE WALL UP TO EL 2506.00 USING PIPE CLAMPS PER MECHANICAL STANDARD DETAIL M901. TERMINATE IN GOOSE NECK (2x90° BEND) WITH SST BIRD SCREEN.



CHINOOK RACEWAYS WASTE DRAIN PIPE PLAN

SCALE: 1"= 10'



PROFILE

SCALE: 1"= 10'

REV	DATE	BY	DESCRIPTION
0	10/28/20	MDM	ISSUED FOR CONSTRUCTION

REGISTERED PROFESSIONAL ENGINEER VINCENT PHILIPPE AUTIER C 89951 CIVIL STATE OF CALIFORNIA
10/28/2020

WARNING
0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

McMILLEN JACOBS ASSOCIATES

KLAMATH RIVER RENEWAL CORPORATION

KLAMATH RIVER RENEWAL CORPORATION
FALL CREEK FISH HATCHERY
CHINOOK RACEWAYS
WASTE DRAIN
PLAN AND PROFILE

DESIGNED A. LEMAN
DRAWN J. LAHMON
CHECKED V. AUTIER
PROJECT DATE 10/28/20

DRAWING
C403

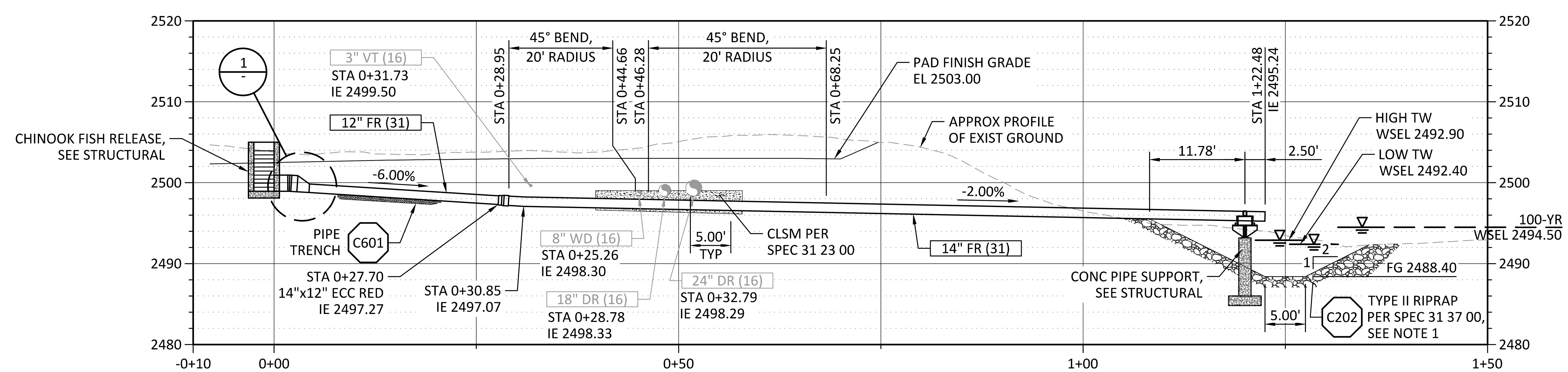
JOB NO: 000000

Path: C:\Vault20\Klamath River Renewal Corp\Fall Creek Facility\C403.dwg Plot date: Oct 28, 2020 01:29pm, CAD User: Guerrero

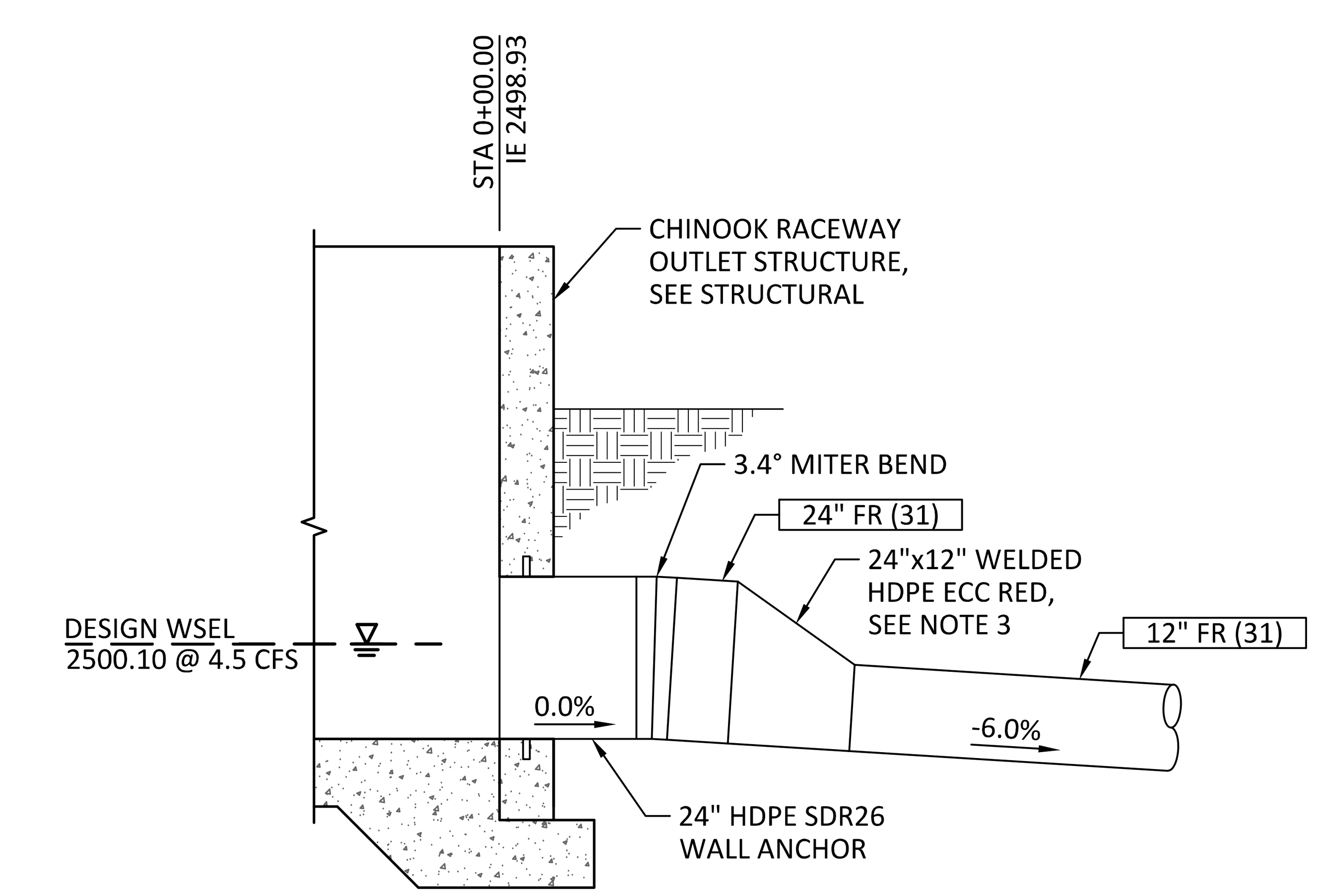
SHEET NOTES:

1. RIPRAP MAY BE ACQUIRED FROM MATERIAL AVAILABLE ON-SITE IN NORTH PAD GRADING. EXISTING MATERIAL MAY REQUIRE CRUSHING OR BREAKING PRIOR TO PLACEMENT IN PLUNGE POOL. ALL RIPRAP MATERIAL MUST MEET THE REQUIREMENTS OF SPECIFICATION 31 37 00.
2. ALL ELEVATIONS SHOWN ON THIS SHEET ARE INVERT ELEVATIONS.
3. THE CONTRACTOR IS ADVISED THAT HDPE ECCENTRIC REDUCERS MAY BE SPECIALTY FITTINGS THAT REQUIRE LONG LEAD TIMES.

CHINOOK RACEWAYS FISH RELEASE PIPE PLAN
SCALE: 1"= 10'



PROFILE
SCALE: 1"= 10'



CHINOOK RACEWAY OUTLET STRUCTURE TIE-IN DETAIL
SCALE: 1"= 2'

REV	DATE	BY	DESCRIPTION
0	10/28/20	MDM	ISSUED FOR CONSTRUCTION

REGISTERED PROFESSIONAL ENGINEER VINCENT PHILIPPE AUTIER C 89951 CIVIL STATE OF CALIFORNIA
10/28/2020

WARNING
0 1/2 1
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McMILLEN JACOBS ASSOCIATES

KLAMATH RIVER RENEWAL CORPORATION

KLAMATH RIVER RENEWAL CORPORATION
FALL CREEK FISH HATCHERY
CHINOOK RACEWAYS
FISH RELEASE PIPE
PLAN AND PROFILE

DESIGNED A. LEMAN
DRAWN J. LAHMON
CHECKED V. AUTIER
PROJECT DATE 10/28/20

DRAWING
C404

JOB NO: 000000

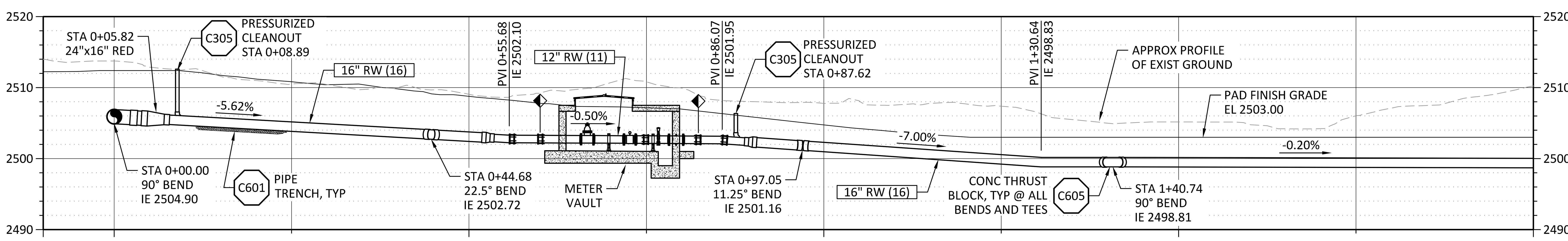
Path: C:\Vault20\Klamath River Renewal Corp\Fall Creek Facility\C404.dwg Plot date: Oct 28, 2020 01:30pm, CAD User: Guerrero

SHEET NOTES:

1. ALL INTERIOR PIPING AND PLUMBING IS SHOWN ON THE MECHANICAL SHEETS.
2. SUPPLY PIPE TO MAINTAIN MINIMUM 2.0' COVER OVER CROWN OF PIPE ALONG ENTIRE PIPELINE LENGTH. WHERE NOT ATTAINABLE, OR WHERE SHOWN OTHERWISE ON THE PROFILE, PIPE IS TO BE ENCASED IN CLSM PER SPECIFICATION 31 23 00.
3. ALL ELEVATIONS SHOWN ON THIS SHEET ARE INVERT ELEVATIONS.

INCUBATION BUILDING WATER SUPPLY PLAN

SCALE: 1"= 10'



PROFILE

SCALE: 1"= 10'

REV	DATE	BY	DESCRIPTION
0	10/28/20	MDM	ISSUED FOR CONSTRUCTION

REGISTERED PROFESSIONAL ENGINEER VINCENT PHILIPPE AUTIER C 89951 CIVIL STATE OF CALIFORNIA

10/28/2020

WARNING

0 1/2 1

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McMILLEN JACOBS ASSOCIATES

KLAMATH RIVER RENEWAL CORPORATION

KLAMATH RIVER RENEWAL CORPORATION

FALL CREEK FISH HATCHERY

CHINOOK INCUBATION BUILDING WATER SUPPLY PLAN AND PROFILE 1

DESIGNED A. LEMAN

DRAWN J. LAHMON

CHECKED V. AUTIER

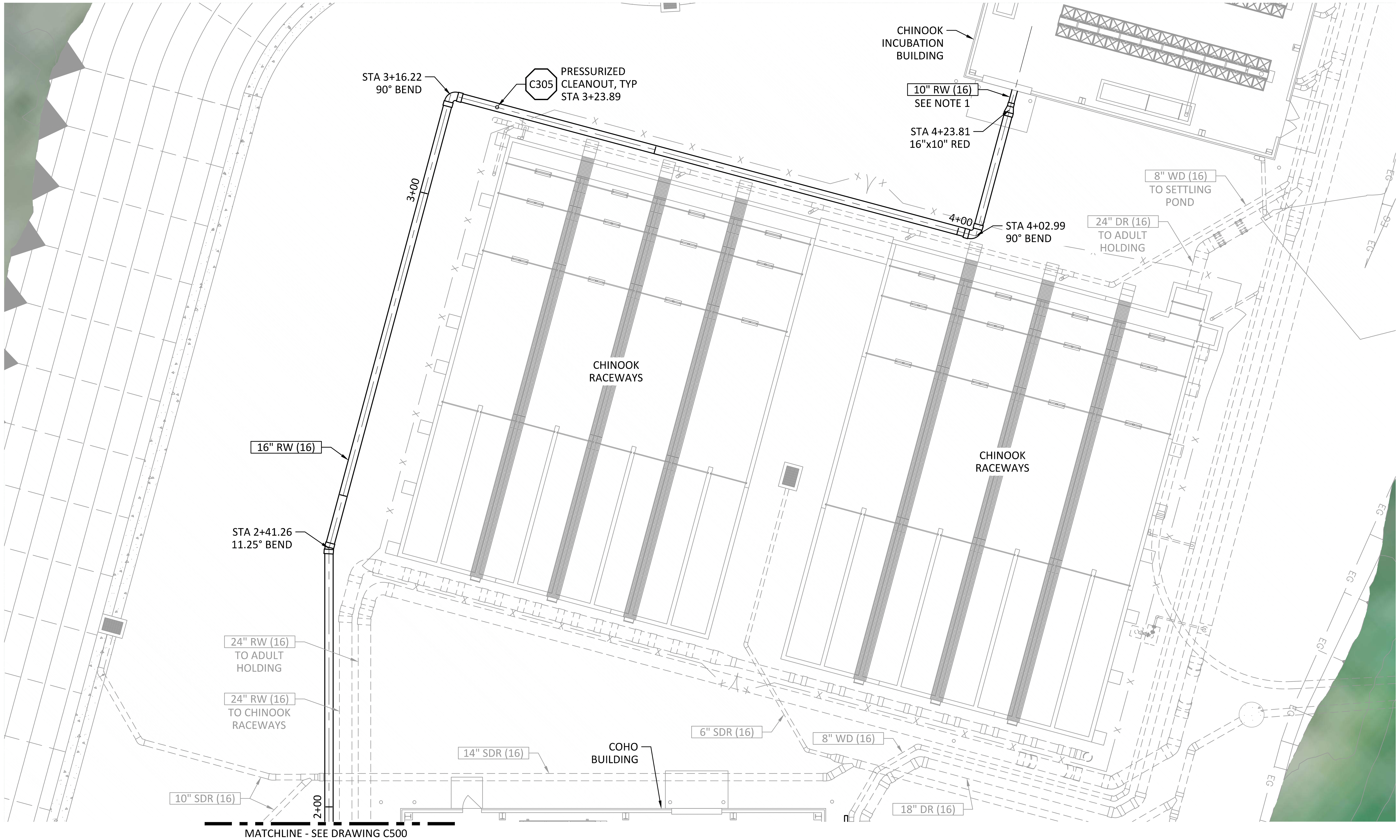
PROJECT DATE 10/28/20

DRAWING

C500

JOB NO: 000000

Path: C:\Vault20\Klamath River Renewal Corp\Fall Creek Facility\C500.dwg Plot date: Oct 28, 2020 01:31pm, CAD User: Guerrero

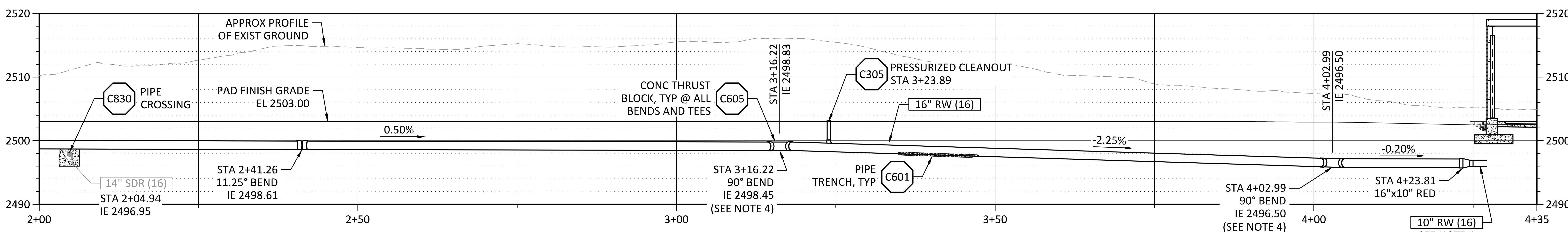


INCUBATION BUILDING WATER SUPPLY PLAN

SCALE: 1"= 10'

SHEET NOTES:

1. ALL INTERIOR PIPING AND PLUMBING IS SHOWN ON THE MECHANICAL SHEETS INCLUDING DETAILS FOR PIPES CROSSING UNDER BUILDING FOUNDATIONS AND PIPING UNDER BUILDING SLABS.
2. SUPPLY PIPE TO MAINTAIN MINIMUM 2.0' COVER OVER CROWN OF PIPE ALONG ENTIRE PIPELINE LENGTH. WHERE NOT ATTAINABLE, OR WHERE SHOWN OTHERWISE ON THE PROFILE, PIPE IS TO BE ENCASED IN CLSM PER SPECIFICATION 31 23 00.
3. ALL ELEVATIONS SHOWN ON THIS SHEET ARE INVERT ELEVATIONS.
4. AT STA 3+16.21, ROTATE 90° BEND DOWN AT 1.2° TO HORIZONTAL TO ACHIEVE SLOPE, AS SHOWN. AT STA 4+02.97 ROTATE 90° BEND BACK TO -0.20% SLOPE.



PROFILE

SCALE: 1"= 10'

REV	DATE	BY	DESCRIPTION
0	10/28/20	MDM	ISSUED FOR CONSTRUCTION

REGISTERED PROFESSIONAL ENGINEER
VINCENT PHILIPPE AUTIER
C 89951
CIVIL
STATE OF CALIFORNIA
10/28/2020

WARNING
0 1/2 1
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McMILLEN JACOBS ASSOCIATES

KLAMATH RIVER RENEWAL CORPORATION

KLAMATH RIVER RENEWAL CORPORATION
FALL CREEK FISH HATCHERY

CHINOOK INCUBATION BUILDING
WATER SUPPLY PLAN AND PROFILE 2

DESIGNED A. LEMAN
DRAWN J. LAHMON
CHECKED V. AUTIER
PROJECT DATE 10/28/20

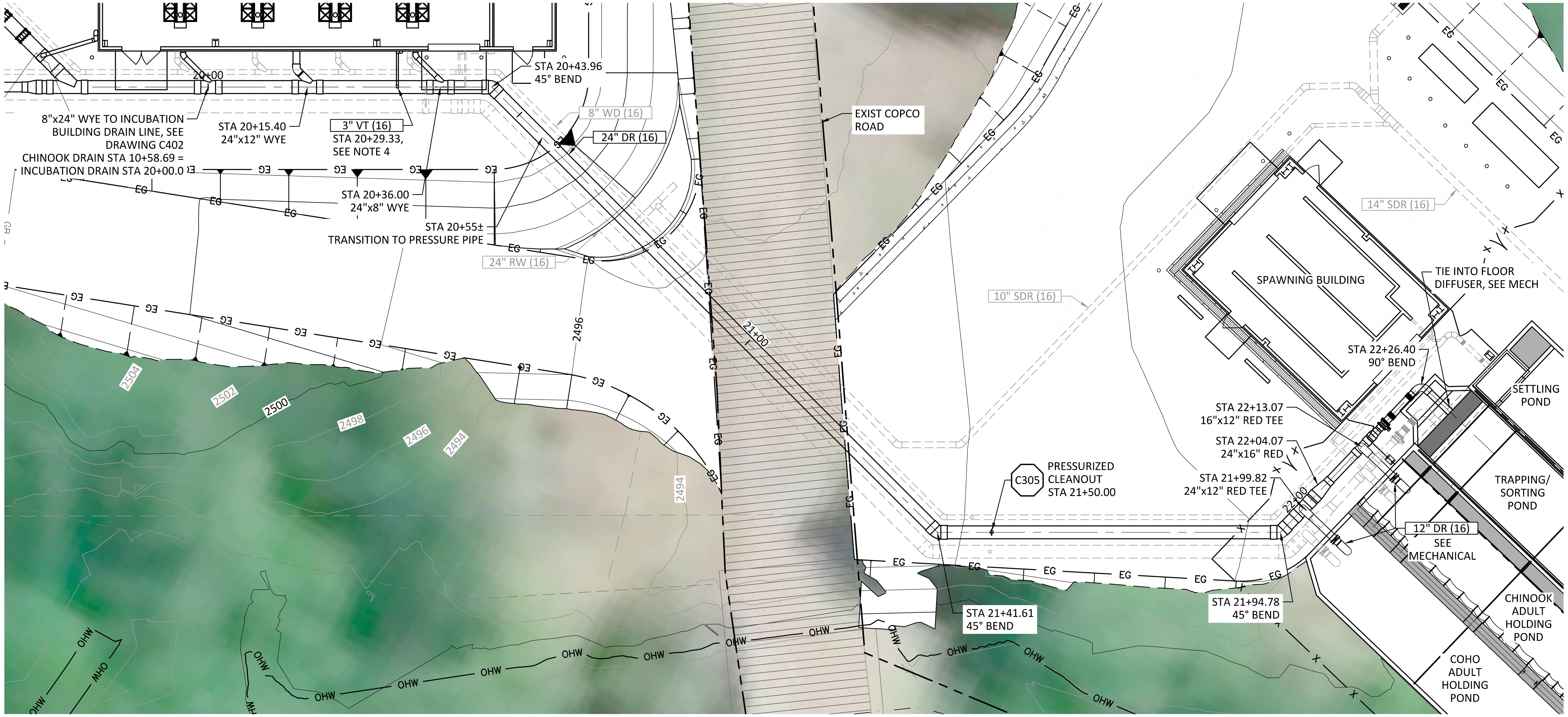
DRAWING
C501

JOB NO: 000000

Path: C:\Vault20\Klamath River Renewal Corp\Fall Creek Facility\C501.dwg Plot date: Oct 28, 2020 01:32pm, CAD User: Guerrero

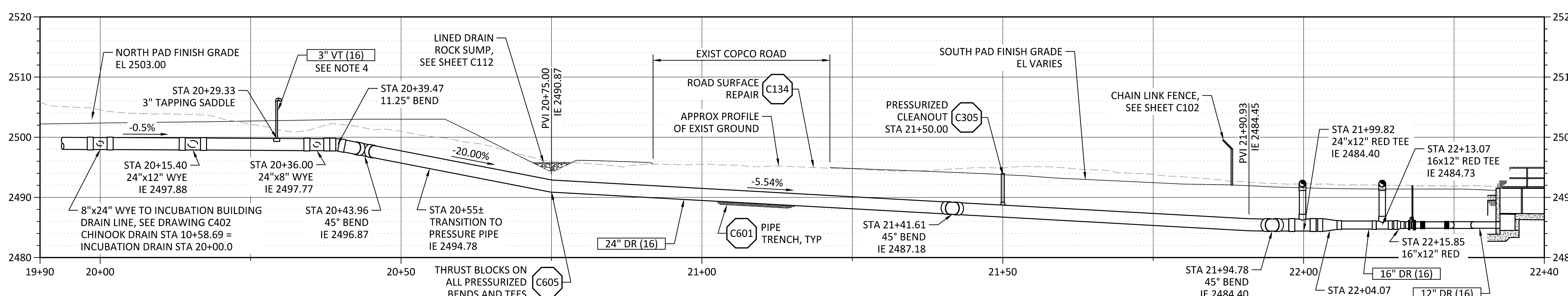
SHEET NOTES:

1. ALL INTERIOR PIPING AND PLUMBING IS SHOWN ON THE MECHANICAL SHEETS.
2. DRAIN PIPE TO MAINTAIN MINIMUM 2.0' COVER OVER CROWN OF PIPE ALONG ENTIRE PIPELINE LENGTH. WHERE NOT ATTAINABLE, OR WHERE SHOWN OTHERWISE ON THE PROFILE, PIPE IS TO BE ENCASED IN CLSM PER SPECIFICATION 31 23 00.
3. ALL PIPE ELEVATIONS SHOWN ON THIS SHEET ARE INVERT ELEVATIONS.
4. RUN BURIED VENT PIPE TO THE INCUBATION BUILDING WALL WITH 2.0' MIN COVER, AND ANCHOR VENT PIPE RISER TO THE WALL UP TO ELEV 2506.0 USING PIPE CLAMPS PER MECHANICAL STANDARD DETAIL M901. TERMINATE IN GOOSE NECK (2x90° BEND) WITH STAINLESS STEEL BIRD SCREEN.



INCUBATION BUILDING DRAIN PLAN

SCALE: 1"= 10'



PROFILE

SCALE: 1"= 10'

REV	DATE	BY	DESCRIPTION
0	10/28/20	MDM	ISSUED FOR CONSTRUCTION

REGISTERED PROFESSIONAL ENGINEER VINCENT PHILIPPE AUTIER C 89951 CIVIL STATE OF CALIFORNIA

10/28/2020

WARNING

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McMILLEN JACOBS ASSOCIATES

KLAMATH RIVER RENEWAL CORPORATION

KLAMATH RIVER RENEWAL CORPORATION

FALL CREEK FISH HATCHERY

CHINOOK INCUBATION BUILDING DRAIN PLAN AND PROFILE

DESIGNED A. LEMAN

DRAWN J. LAHMON

CHECKED V. AUTIER

PROJECT DATE 10/28/20

DRAWING C502

JOB NO: 000000

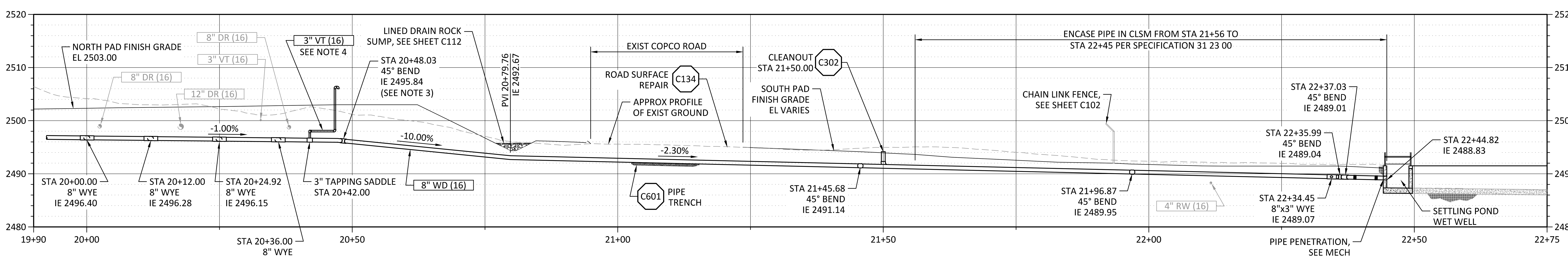
Path: C:\Vault20\Klamath River Renewal Corp\Fall Creek Facility\C502.dwg Plot date: Oct 28, 2020 01:32pm, CAD User: Guerrero

SHEET NOTES:

1. ALL INTERIOR PIPING AND WET WELL PLUMBING IS SHOWN ON THE MECHANICAL SHEETS.
2. ALL PIPE ELEVATIONS SHOWN ON THIS SHEET ARE INVERT ELEVATIONS.
3. ORIENT THE 45° BEND DOWN AT 5.1° TO HORIZONTAL TO ACHIEVE THE 10.0% SLOPE, AS INDICATED.
4. RUN BURIED VENT PIPE TO THE INCUBATION BUILDING WALL WITH 2.0' MIN COVER, AND ANCHOR VENT RISER TO THE WALL UP TO EL 2506.00 USING PIPE CLAMPS PER MECHANICAL STANDARD DETAIL M901. TERMINATE IN GOOSE NECK (2x90° BEND) WITH SST BIRD SCREEN.

INCUBATION BUILDING WASTE DRAIN PLAN

SCALE: 1"= 10'



PROFILE

SCALE: 1"= 10'

Path: C:\Vault20\Klamath River Renewal Corp\Fall Creek Facility\C503.dwg Plot date: Oct 28, 2020 01:33pm, CAD User: Guerrero

REV	DATE	BY	DESCRIPTION
0	10/28/20	MDM	ISSUED FOR CONSTRUCTION

REGISTERED PROFESSIONAL ENGINEER VINCENT PHILIPPE AUTIER C 89951 CIVIL STATE OF CALIFORNIA 10/28/2020

WARNING

0 1/2 1

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McMILLEN JACOBS ASSOCIATES

KLAMATH RIVER RENEWAL CORPORATION

KLAMATH RIVER RENEWAL CORPORATION

FALL CREEK FISH HATCHERY

CHINOOK INCUBATION BUILDING WASTE DRAIN PLAN AND PROFILE

DESIGNED A. LEMAN

DRAWN J. LAHMON

CHECKED V. AUTIER

PROJECT DATE 10/28/20

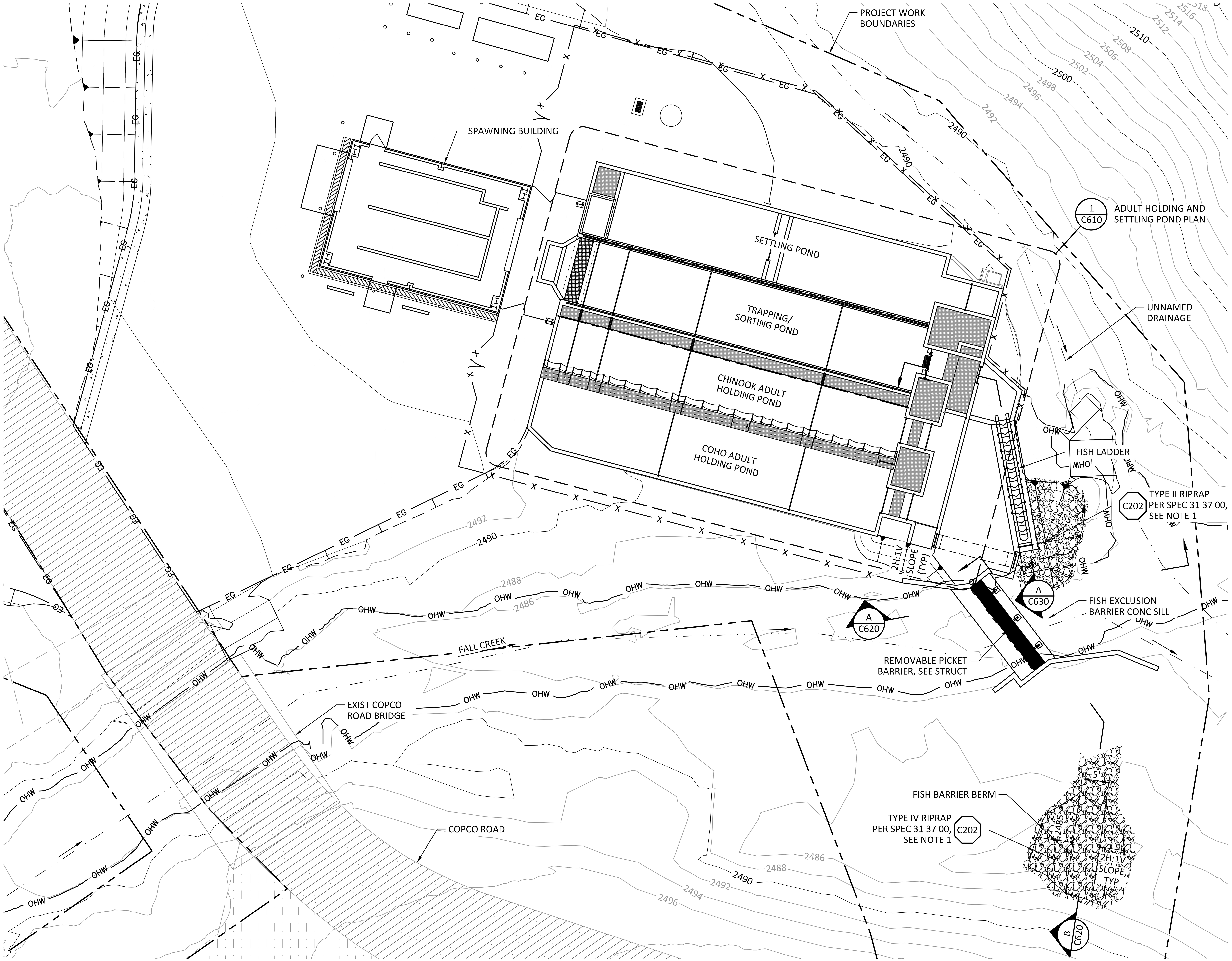
DRAWING

C503

JOB NO: 000000

SHEET NOTES:

1. RIPRAP MAY BE ACQUIRED FROM MATERIAL AVAILABLE ON-SITE IN NORTH PAD GRADING. EXISTING MATERIAL MAY REQUIRE CRUSHING OR BREAKING PRIOR TO PLACEMENT. ALL RIPRAP MUST MEET THE REQUIREMENTS OF SPECIFICATION 31 37 00.



SPAWNING BUILDING, ADULT HOLDING, FISH BARRIER, AND FISH LADDER SITE LAYOUT

SCALE: 1"= 10'

0' 10' 20'

REV	DATE	BY	DESCRIPTION
0	10/28/20	MDM	ISSUED FOR CONSTRUCTION

10/28/2020

WARNING

0 1/2 1

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McMILLEN JACOBS ASSOCIATES

KLAMATH RIVER RENEWAL CORPORATION

KLAMATH RIVER RENEWAL CORPORATION

FALL CREEK FISH HATCHERY

SPAWNING BUILDING, ADULT HOLDING, FISH BARRIER AND FISH LADDER SITE LAYOUT

DESIGNED A. LEMAN

DRAWN J. LAHMON

CHECKED V. AUTIER

PROJECT DATE 10/28/20

DRAWING

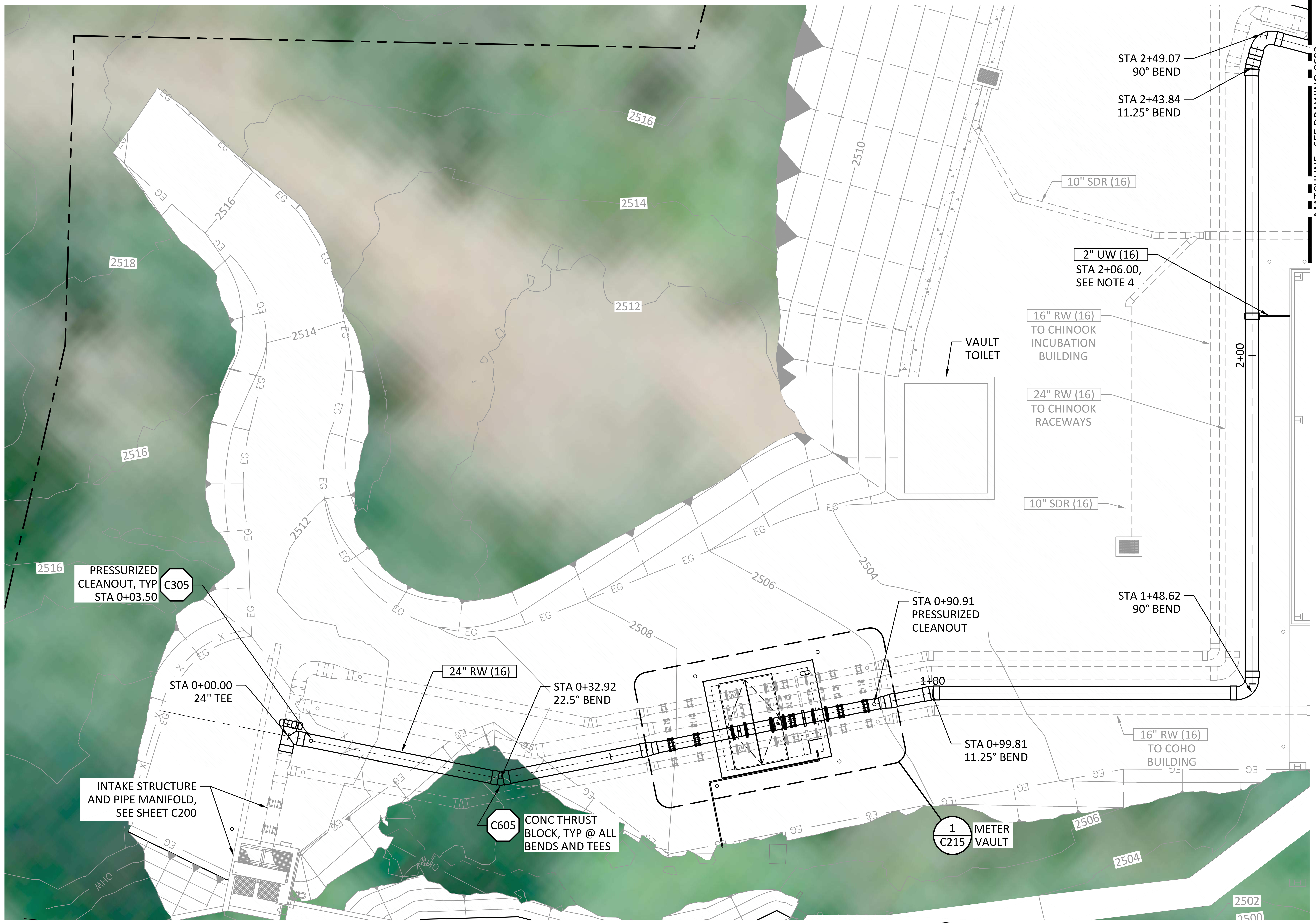
C600

JOB NO: 000000

Path: C:\Vault20\Klamath River Renewal Corp\Fall Creek Facility\C600.dwg Plot date: Oct 28, 2020 01:34pm, CAD User: Guerrero

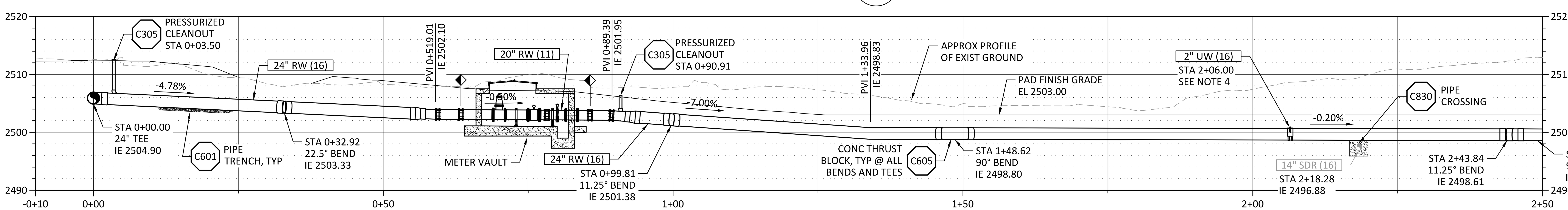
SHEET NOTES:

1. ALL INTERIOR PIPING AND PLUMBING IS SHOWN ON THE MECHANICAL SHEETS.
2. SUPPLY PIPE TO MAINTAIN MINIMUM 2.0' COVER OVER CROWN OF PIPE ALONG ENTIRE PIPELINE LENGTH. WHERE NOT ATTAINABLE, OR WHERE SHOWN OTHERWISE ON THE PROFILE, PIPE IS TO BE ENCASED IN CLSM PER SPECIFICATION 31 23 00.
3. ALL ELEVATIONS SHOWN ON THIS SHEET ARE INVERT ELEVATIONS.
4. PROVIDE 2" DOUBLE STRAP D.I. SERVICE SADDLE AT STATION 2+06.00, AND RUN UTILITY WATER LINE TO COHO BUILDING PER MECHANICAL. 2" UW LINE SHALL MAINTAIN 2.0' COVER OVER CROWN OF PIPE.



ADULT HOLDING WATER SUPPLY PLAN

SCALE: 1"= 10'



PROFILE

SCALE: 1"= 10'

REV	DATE	BY	DESCRIPTION
0	10/28/20	MDM	ISSUED FOR CONSTRUCTION

REGISTERED PROFESSIONAL ENGINEER
VINCENT PHILIPPE AUTIER
C 89951
CIVIL
STATE OF CALIFORNIA
10/28/2020

WARNING

0 1/2 1

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McMILLEN JACOBS ASSOCIATES

KLAMATH RIVER RENEWAL CORPORATION

KLAMATH RIVER RENEWAL CORPORATION

FALL CREEK FISH HATCHERY

ADULT HOLDING
WATER SUPPLY
PLAN AND PROFILE 1

DESIGNED A. LEMAN

DRAWN J. LAHMON

CHECKED V. AUTIER

PROJECT DATE 10/28/20

DRAWING

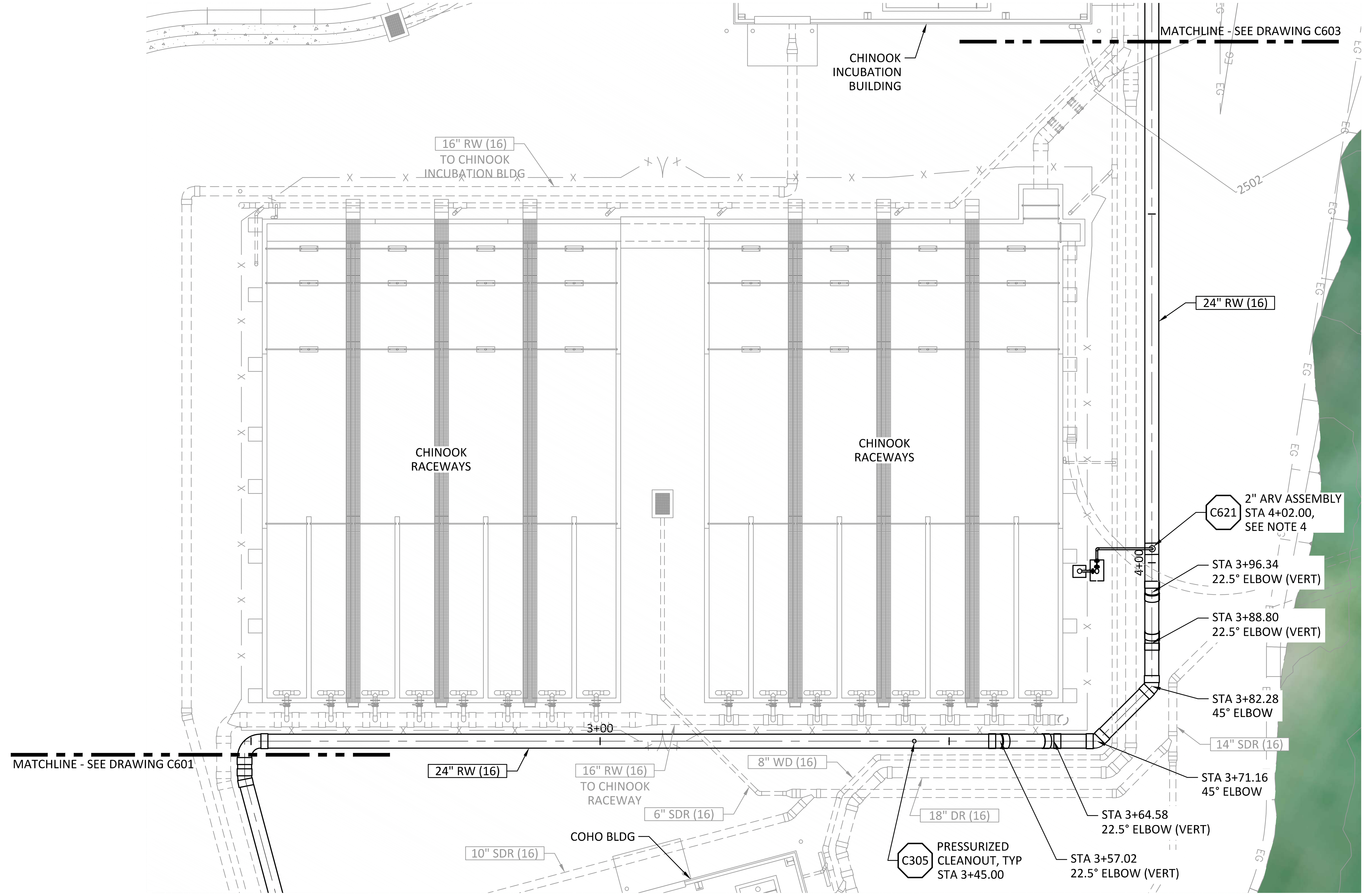
C601

JOB NO: 000000

Path: C:\Vault20\Klamath River Renewal Corp\Fall Creek Facility\C601.dwg Plot date: Oct 28, 2020 01:34pm, CAD User: Guerrero

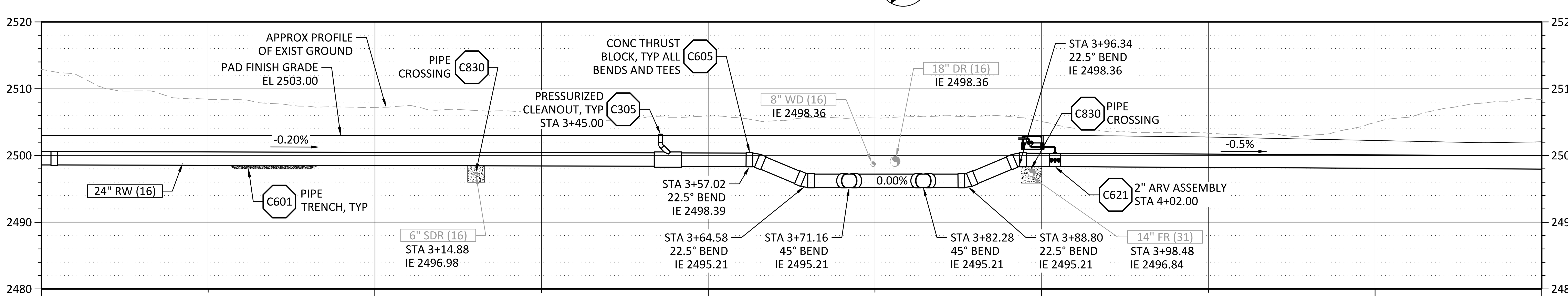
SHEET NOTES:

1. ALL INTERIOR PIPING AND PLUMBING IS SHOWN ON THE MECHANICAL SHEETS.
2. SUPPLY PIPE TO MAINTAIN MINIMUM 2.0' COVER OVER CROWN OF PIPE ALONG ENTIRE PIPELINE LENGTH. WHERE NOT ATTAINABLE, OR WHERE SHOWN OTHERWISE ON THE PROFILE, PIPE IS TO BE ENCASED IN CLSM PER SPECIFICATION 31 23 00.
3. ALL ELEVATIONS SHOWN ON THIS SHEET ARE INVERT ELEVATIONS.
4. FOR 2" ARV ASSEMBLY, LOCATE TRAFFIC-RATED CONCRETE BOX WITH ARV ADJACENT TO, BUT OUTSIDE OF THE FENCE AT GRADE WITH THE SURROUNDING GRAVEL ROAD SURFACING. LOCATE THE VENT RISER PIPE IMMEDIATELY INSIDE THE FENCE, APPROX AS SHOWN.



ADULT HOLDING WATER SUPPLY PLAN

SCALE: 1"= 10'



PROFILE

SCALE: 1"= 10'

REV	DATE	BY	DESCRIPTION
0	10/28/20	MDM	ISSUED FOR CONSTRUCTION

REGISTERED PROFESSIONAL ENGINEER VINCENT PHILIPPE AUTIER C 89951 CIVIL STATE OF CALIFORNIA

10/28/2020

WARNING

0 1/2 1

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McMILLEN JACOBS ASSOCIATES

KLAMATH RIVER RENEWAL CORPORATION

KLAMATH RIVER RENEWAL CORPORATION

FALL CREEK FISH HATCHERY

ADULT HOLDING WATER SUPPLY PLAN AND PROFILE 2

DESIGNED A. LEMAN

DRAWN J. LAHMON

CHECKED V. AUTIER

PROJECT DATE 10/28/20

DRAWING

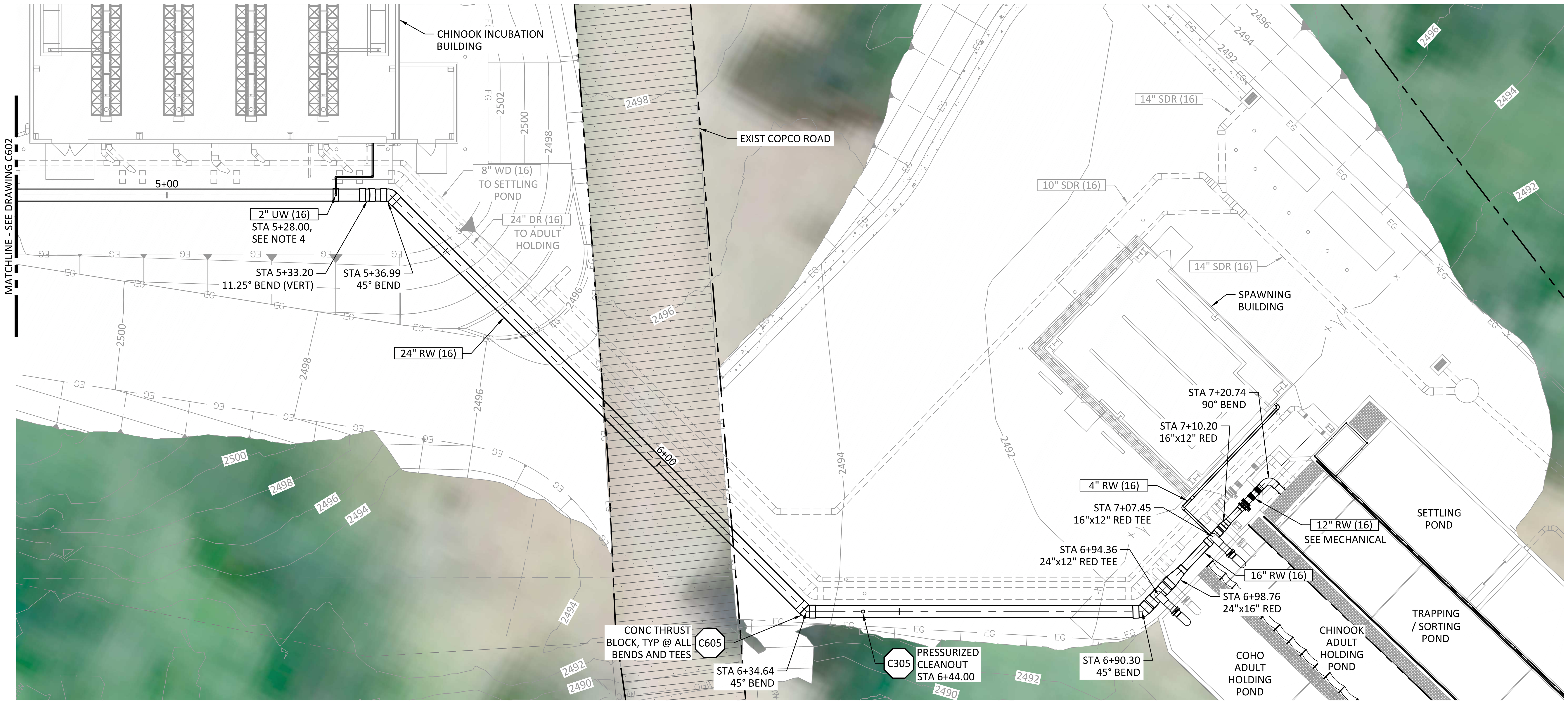
C602

JOB NO: 000000

Path: C:\Vault20\Klamath River Renewal Corp\Fall Creek Facility\C602.dwg Plot date: Oct 28, 2020 01:35pm, CAD User: Guerrero

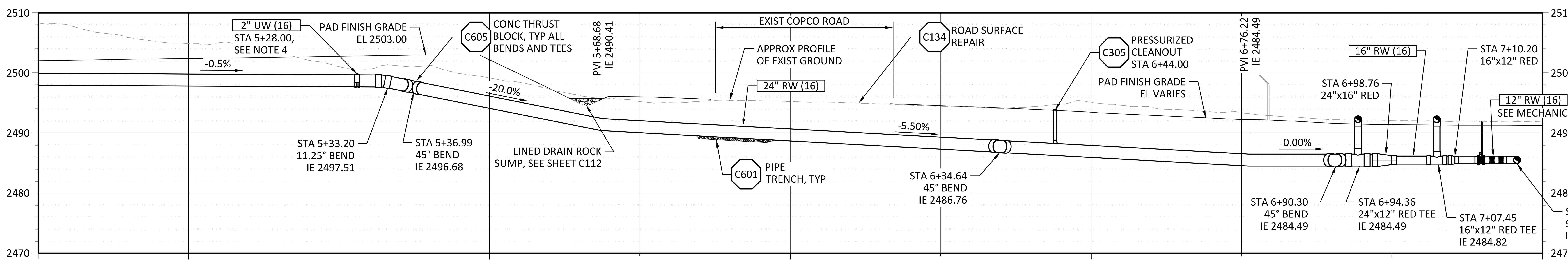
SHEET NOTES:

1. ALL INTERIOR PIPING AND PLUMBING IS SHOWN ON THE MECHANICAL SHEETS.
2. SUPPLY PIPE TO MAINTAIN MINIMUM 2.0' COVER OVER CROWN OF PIPE ALONG ENTIRE PIPELINE LENGTH. WHERE NOT ATTAINABLE, OR WHERE SHOWN OTHERWISE ON THE PROFILE, PIPE IS TO BE ENCASED IN CLSM PER SPECIFICATION 31 23 00.
3. ALL ELEVATIONS SHOWN ON THIS SHEET ARE INVERT ELEVATIONS.
4. PROVIDE 2" DOUBLE STRAP D.I. SERVICE SADDLE AT STATION 5+28.00, AND RUN UTILITY WATER LINE TO CHINOOK INCUBATION BUILDING PER MECHANICAL. 2" UW LINE SHALL MAINTAIN 2.0' COVER OVER CROWN OF PIPE.



ADULT HOLDING WATER SUPPLY PLAN

SCALE: 1"= 10'



PROFILE

SCALE: 1"= 10'

REV	DATE	BY	DESCRIPTION
0	10/28/20	MDM	ISSUED FOR CONSTRUCTION

REGISTERED PROFESSIONAL ENGINEER VINCENT PHILIPPE AUTIER C 89951 CIVIL STATE OF CALIFORNIA 10/28/2020

WARNING 0 1/2 1 IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

McMILLEN JACOBS ASSOCIATES

KLAMATH RIVER RENEWAL CORPORATION

KLAMATH RIVER RENEWAL CORPORATION

FALL CREEK FISH HATCHERY

ADULT HOLDING WATER SUPPLY PLAN AND PROFILE 3

DESIGNED A. LEMAN

DRAWN J. LAHMON

CHECKED V. AUTIER

PROJECT DATE 10/28/20

DRAWING C603

JOB NO: 000000

Path: C:\Vault20\Klamath River Renewal Corp\Fall Creek Facility\C603.dwg Plot date: Oct 28, 2020 01:36pm, CAD User: Guerrero