

SHEET NOTES:

1. SEE DRAWING EC100 FOR STANDARD EROSION AND SEDIMENT CONTROL NOTES.
2. UTILIZE SURFACE ROUGHENING AND/OR SILT FENCE AS REQUIRED TO STABILIZE SOILS DURING CONSTRUCTION OF INTAKE STRUCTURE.
3. BULK STORAGE OF HAZARDOUS MATERIALS, INCLUDING PLANTS, CHEMICALS, FERTILIZERS, PESTICIDES, FUEL, OIL, GREASE, ETC. ARE NOT ALLOWED IN THE INTAKE STRUCTURE AREA. ONLY MINIMUM QUANTITIES NECESSARY FOR CURRENT WORK EFFORTS SHALL BE STORED AT THE INTAKE STRUCTURE SITE.
4. CONTRACTOR SHALL REVIEW SPECIFICATIONS TO UNDERSTAND THE HYDROLOGY AND HYDRAULICS OF FALL CREEK WHEN DESIGNING THE COFFERDAM. CONTRACTOR SHALL SUBMIT THE COFFERDAM PLAN FOR APPROVAL AS PER SPECIFICATION 02 15 00.
5. CONTRACTOR'S COFFERDAM STAGING SHALL NOT INTERFERE WITH THE CITY OF YREKA ACCESS TO WATER AT ANY TIME.
6. PROPOSED COFFERDAM STAGING IS PROVIDED TO AID THE CONTRACTOR IN DEVELOPMENT OF A PLAN FOR IN-WATER WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR STAGING OF WORK, COORDINATION WITH SITE HYDROLOGY, COFFERDAM DESIGN, CONSTRUCTION, AND MAINTENANCE, FLOW BYPASSING, ETC AS INCIDENTAL TO THE CONSTRUCTION PROCESS.

PROPOSED COFFERDAM STAGING, SEE NOTE 6:

- A CONSTRUCT COFFERDAM TO ISOLATE INTAKE STRUCTURE CONSTRUCTION AREA, AND DAM A OVERFLOWS. MAINTAIN FLOW TO THE CITY OF YREKA INTAKE FOR THE DURATION OF CONSTRUCTION.
- B CONCURRENT WITH UPSTREAM COFFERDAM CONSTRUCTION, INSTALL FLOW BYPASS PIPE TO PASS POWERHOUSE FLOWS DOWNSTREAM OF CANAL DEMOLITION. UTILIZE ANY PUMPS OR SIPHONS AS REQD BY FLOW BYPASS ROUTING. AT OUTLET OF BYPASS PIPE PLACE TEMPORARY RIPRAP TO PROTECT THE CREEK FROM EROSION. PRIOR TO ANY SUPPORTING EARTHWORKS, THE CITY OF YREKA WATER LINE MUST BE FIELD LOCATED AND PROTECTED FOR THE DURATION OF CONSTRUCTION.
- C CONSTRUCT COFFERDAM DOWNSTREAM OF EXIST CANAL DEMOLITION TO PRECLUDE BACKWATER FROM THE CONFLUENCE OF THE POWERHOUSE CHANNEL AND FALL CREEK INUNDATING THE CONSTRUCTION AREA.
- D PERFORM FISH SALVAGE OPERATIONS PER SPECIFICATION 02 15 00, THEN DEWATER CONSTRUCTION AREA FOR INTAKE STRUCTURE, DAM A VELOCITY BARRIER, AND EXIST CANAL DEMOLITION. CONTRACTOR SHALL BE RESPONSIBLE FOR TREATING WATER BY AN APPROVED METHOD IN ACCORDANCE WITH THE CONTRACTOR'S CGP PRIOR TO DISCHARGE.
- E AFTER CONSTRUCTION IS COMPLETE AND THE CONSTRUCTION AREA IS READY TO RECEIVE POWERHOUSE FLOWS AGAIN, SAFELY REMOVE DOWNSTREAM COFFERDAM (WHILE KEEPING THE BYPASS PIPE IN COMMISSION), THEN SAFELY BREACH UPSTREAM COFFERDAM AND ALLOW CONSTRUCTION AREA TO REWATER. LASTLY, REMOVE FLOW BYPASS PIPE.
- F FOR FISH RELEASE POOL, CONSTRUCT COFFERDAM AS REQD BY TIME OF YEAR AND FALL CREEK FLOWS. THE MAJORITY OF CONSTRUCTION WILL BE PERFORMED IN THE OVERBANK AREA, AND MAY BE PERFORMED IN THE DRY. WHEN THE COFFERDAM IS REQD, ALLOW SUFFICIENT SPACE IN THE CREEK FOR FLOWS TO BYPASS THE CONSTRUCTION AREA. FOLLOWING CONSTRUCTION OF THE FISH RELEASE POOL AND APPURTENANT PIPING, SUPPORTS, ETC. SAFELY BREACH THE COFFERDAM AND REMOVE.

LEGEND:

- SF SILT FENCE
- COFFERDAM
- CF CONSTRUCTION FENCE

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



WARNING

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



KLAMATH RIVER RENEWAL CORPORATION		DESIGNED <u>A. LEMAN</u>	DRAWING EC101
FALL CREEK FISH HATCHERY		DRAWN <u>J. LAHMON</u>	
EROSION AND SEDIMENT CONTROL NORTH PLAN		CHECKED <u>V. AUTIER</u>	
		PROJECT DATE <u>10/28/20</u>	

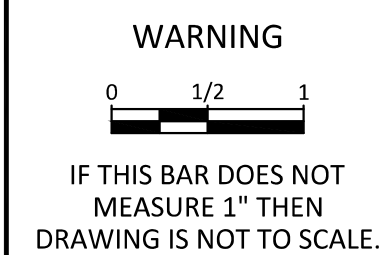
- SHEET NOTES:**
- SEE DRAWING EC100 FOR STANDARD EROSION AND SEDIMENT CONTROL NOTES.
 - CONTRACTOR SHALL REVIEW SPECIFICATIONS TO UNDERSTAND THE HYDROLOGY AND HYDRAULICS OF FALL CREEK WHEN DESIGNING THE COFFERDAM. CONTRACTOR SHALL SUBMIT THE COFFERDAM PLAN FOR APPROVAL AS PER SPECIFICATION 02 15 00.
 - PROPOSED COFFERDAM STAGING IS PROVIDED TO AID THE CONTRACTOR IN DEVELOPMENT OF A PLAN FOR IN-WATER WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR STAGING OF WORK, COORDINATION WITH SITE HYDROLOGY, COFFERDAM DESIGN, CONSTRUCTION, AND MAINTENANCE, FLOW BYPASSING, ETC AS INCIDENTAL TO THE CONSTRUCTION PROCESS.

- PROPOSED COFFERDAM STAGING, SEE NOTE 3:**
- A CONSTRUCT UPSTREAM COFFERDAM TO ISOLATE FISH LADDER AND FISH BARRIER CONSTRUCTION AREA.
 - B CONCURRENT WITH UPSTREAM COFFERDAM CONSTRUCTION, INSTALL FLOW BYPASS PIPE TO PASS CREEK FLOWS DOWNSTREAM OF THE CONSTRUCTION AREA. AT OUTLET OF BYPASS PIPE PLACE TEMPORARY RIPRAP TO PROTECT THE CREEK FROM EROSION.
 - C CONSTRUCT COFFERDAM DOWNSTREAM OF CONSTRUCTION AREA TO PRECLUDE BACKWATER FROM FALL CREEK INUNDATING THE CONSTRUCTION AREA.
 - D PERFORM FISH SALVAGE OPERATIONS PER SPECIFICATION 02 15 00, THEN DEWATER CONSTRUCTION AREA FOR THE FISH LADDER AND FISH BARRIER. CONTRACTOR SHALL BE RESPONSIBLE FOR TREATING WATER BY AN APPROVED METHOD IN ACCORDANCE WITH THE CONTRACTOR'S CGP PRIOR TO DISCHARGE.
 - E AFTER CONSTRUCTION IS COMPLETE AND THE CONSTRUCTION AREA IS READY TO RECEIVE CREEK FLOWS AGAIN, SAFELY REMOVE DOWNSTREAM COFFERDAM (WHILE KEEPING THE BYPASS PIPE IN COMMISSION), THEN SAFELY BREACH AND REMOVE UPSTREAM COFFERDAM AND ALLOW CONSTRUCTION AREA TO REWATER. LASTLY, REMOVE FLOW BYPASS PIPE.

- LEGEND:**
- SF SILT FENCE
 - COFFERDAM
 - CF CONSTRUCTION FENCE

EROSION AND SEDIMENT CONTROL SOUTH PLAN
SCALE: 1"= 20'

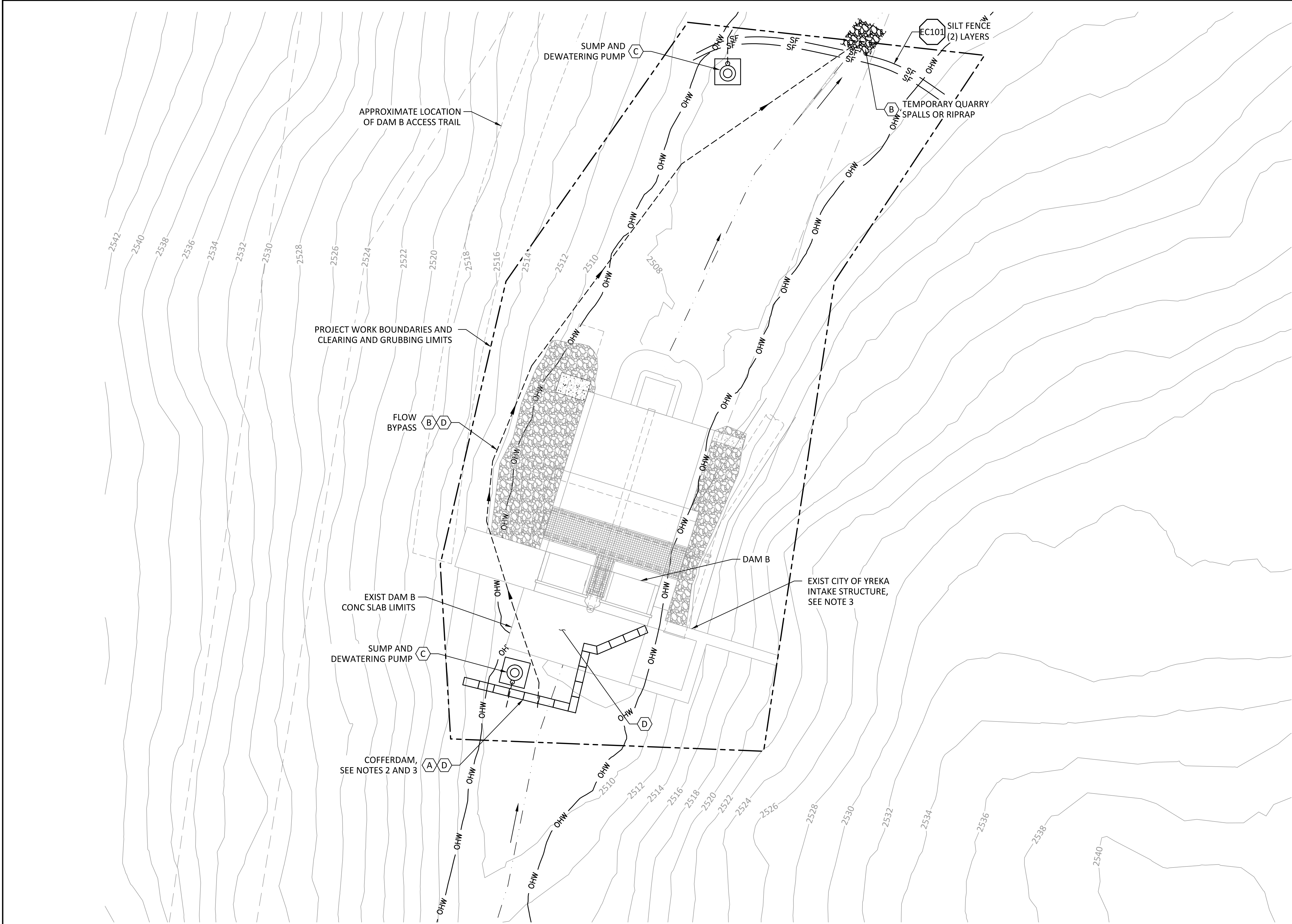
REV	DATE	BY	DESCRIPTION
0	10/28/20	MDM	ISSUED FOR CONSTRUCTION



KLAMATH RIVER RENEWAL CORPORATION
FALL CREEK FISH HATCHERY
EROSION AND SEDIMENT CONTROL
SOUTH PLAN

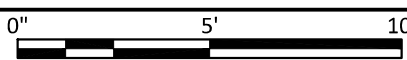
DESIGNED A. LEMAN
DRAWN J. LAHMON
CHECKED V. AUTIER
PROJECT DATE 10/28/20

DRAWING
EC102



EROSION AND SEDIMENT CONTROL DAM B PLAN

SCALE: 1"= 5'



1
EC100



SHEET NOTES:

1. SEE DRAWING EC100 FOR STANDARD EROSION AND SEDIMENT CONTROL NOTES.
2. CONTRACTOR SHALL REVIEW SPECIFICATIONS TO UNDERSTAND THE HYDROLOGY AND HYDRAULICS OF FALL CREEK WHEN DESIGNING THE COFFERDAM. CONTRACTOR SHALL SUBMIT THE COFFERDAM PLAN FOR APPROVAL AS PER SPECIFICATION 02 15 00.
3. CONTRACTOR'S COFFERDAM STAGING SHALL NOT INTERFERE WITH THE CITY OF YREKA INTAKE ACCESS TO WATER AT ANY TIME.
4. PROPOSED COFFERDAM STAGING IS PROVIDED TO AID THE CONTRACTOR IN DEVELOPMENT OF A PLAN FOR IN-WATER WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR STAGING OF WORK, COORDINATION WITH SITE HYDROLOGY, COFFERDAM DESIGN, CONSTRUCTION, AND MAINTENANCE, FLOW BYPASSING, ETC AS INCIDENTAL TO THE CONSTRUCTION PROCESS.

PROPOSED COFFERDAM STAGING, SEE NOTE 4:

- A CONSTRUCT UPSTREAM COFFERDAM TO ISOLATE DAM B MODIFICATIONS CONSTRUCTION AREA. MAINTAIN FLOW TO THE CITY OF YREKA INTAKE FOR THE DURATION OF CONSTRUCTION.
- B CONCURRENT WITH UPSTREAM COFFERDAM CONSTRUCTION, INSTALL FLOW BYPASS PIPE TO PASS CREEK FLOWS DOWNSTREAM OF THE CONSTRUCTION AREA. UTILIZE PUMPS OR SIPHONS AS REQD BY THE FLOW BYPASS ROUTING. AT OUTLET OF BYPASS PIPE PLACE TEMPORARY QUARRY SPALLS OR RIPRAP TO PROTECT THE CREEK FROM EROSION.
- C PERFORM FISH SALVAGE OPERATIONS PER SPECIFICATION 02 15 00, THEN DEWATER CONSTRUCTION AREA FOR THE DAM B BARRIER MODIFICATIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR TREATING WATER BY AN APPROVED METHOD IN ACCORDANCE WITH THE CONTRACTOR'S CGP PRIOR TO DISCHARGE.
- D AFTER CONSTRUCTION IS COMPLETE AND THE CONSTRUCTION AREA IS READY TO RECEIVE CREEK FLOWS AGAIN, SAFELY BREACH AND REMOVE UPSTREAM COFFERDAM AND ALLOW CONSTRUCTION AREA TO REWATER. LASTLY, REMOVE FLOW BYPASS PIPE.

LEGEND:

- SF — SILT FENCE
- COFFERDAM

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



WARNING

0 1/2 1

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



KLAMATH RIVER RENEWAL CORPORATION		DESIGNED <u>A. LEMAN</u>	DRAWING EC210
FALL CREEK FISH HATCHERY		DRAWN <u>J. LAHMON</u>	
EROSION AND SEDIMENT CONTROL DAM B PLAN		CHECKED <u>V. AUTIER</u>	
		PROJECT DATE <u>10/28/20</u>	

1. ALL DEMOLITION SHALL CONFORM TO SPECIFICATION SECTION 02 41 00 - DEMOLITION.
2. EXISTING BASE MAP MAY CONTAIN ERRORS. CONTRACTOR TO VERIFY LOCATION OF PIPES AND STRUCTURES PRIOR TO DEMOLITION.
3. CONTRACTOR SHALL SUBMIT A DEWATERING PLAN FOR REVIEW AND APPROVAL PER SPECIFICATIONS.
4. CONTRACTOR SHALL FIELD VERIFY EXACT EXTENT OF DEMOLITION PRIOR TO CONSTRUCTION.
5. NO DEMOLITION SHALL BE PERFORMED UNTIL A DEMOLITION PLAN, COFFERDAM PLAN, DEWATERING PLAN, AND SWPP HAS BEEN SUBMITTED BY THE CONTRACTOR AND APPROVED BY THE OWNER. A COPY OF THE APPROVED DEMOLITION PLAN SHALL BE RETAINED ON-SITE FOR THE DURATION OF CONSTRUCTION.

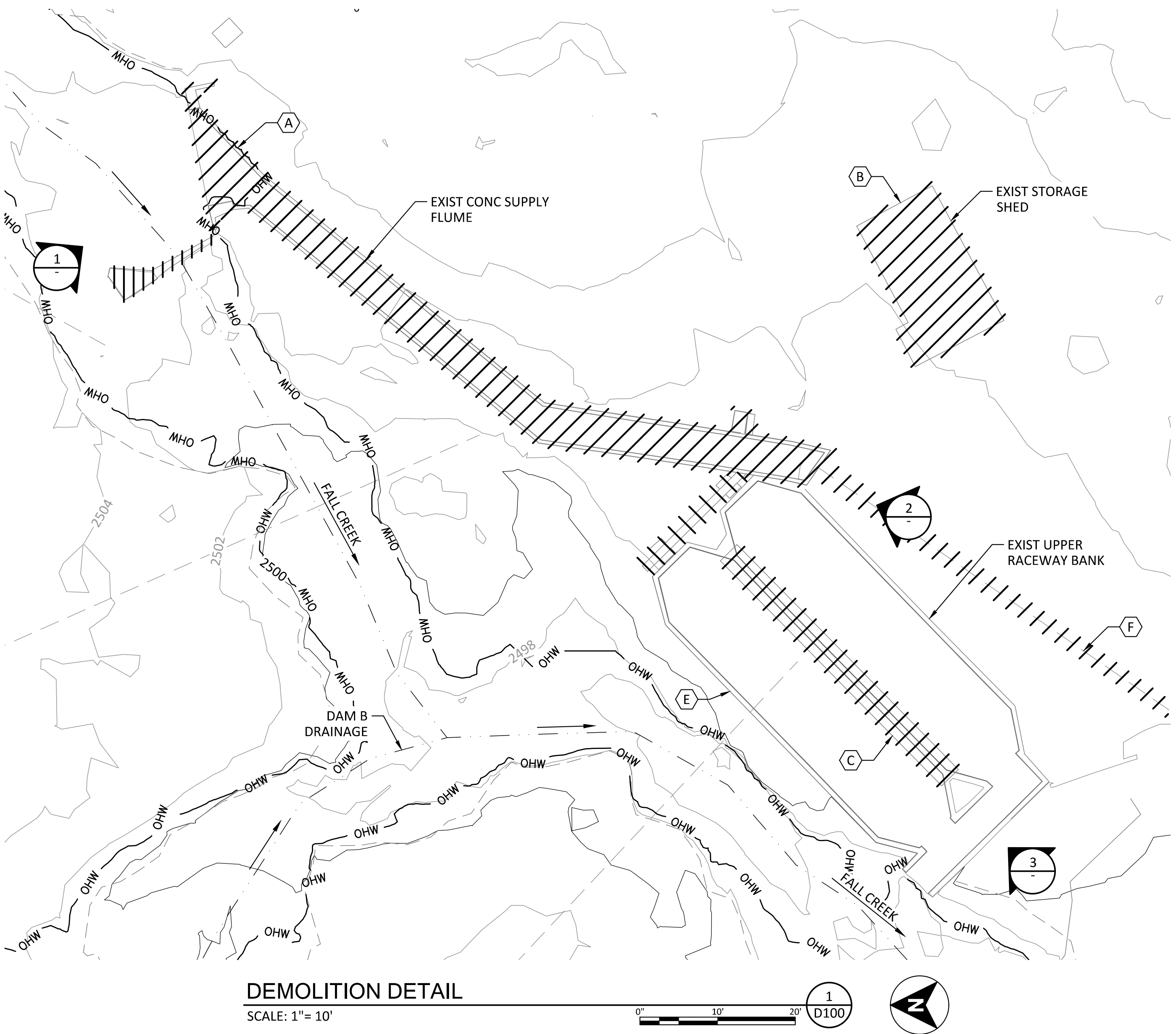


McMILLEN
JACOBS
ASSOCIATES



DRAWING

D100



- SHEET KEY NOTES:**
- A DEMOLISH AND REMOVE CONC SUPPLY FLUME WALLS AND SLAB, ASSOCIATED PIPING, AND DEBRIS SCREENS AND SUPPORTS. BACKFILL TO MATCH SURROUNDING GRADE WITH TYPE C MATERIAL PER SPECIFICATIONS.
 - B DEMOLISH AND REMOVE STORAGE SHED AND CONC FOUNDATIONS.
 - C DEMOLISH AND REMOVE STEEL WALKWAY GRATING, SUPPORTS AND LADDERS. RETAIN AND PROTECT CONCRETE WALLS BELOW.
 - D DEMOLISH PVC PIPING.
 - E PROTECT EXISTING UPPER RACEWAY WALLS AND SLAB.
 - F DEMOLISH BURIED PVC PIPING FROM EXISTING CONCRETE SUPPLY FLUME TO EXISTING LOWER RACEWAY BANK. NO PIPE SIZE INFORMATION IS AVAILABLE FOR THE BURIED PIPE.



PHOTO
SCALE: NTS



PHOTO
SCALE: NTS

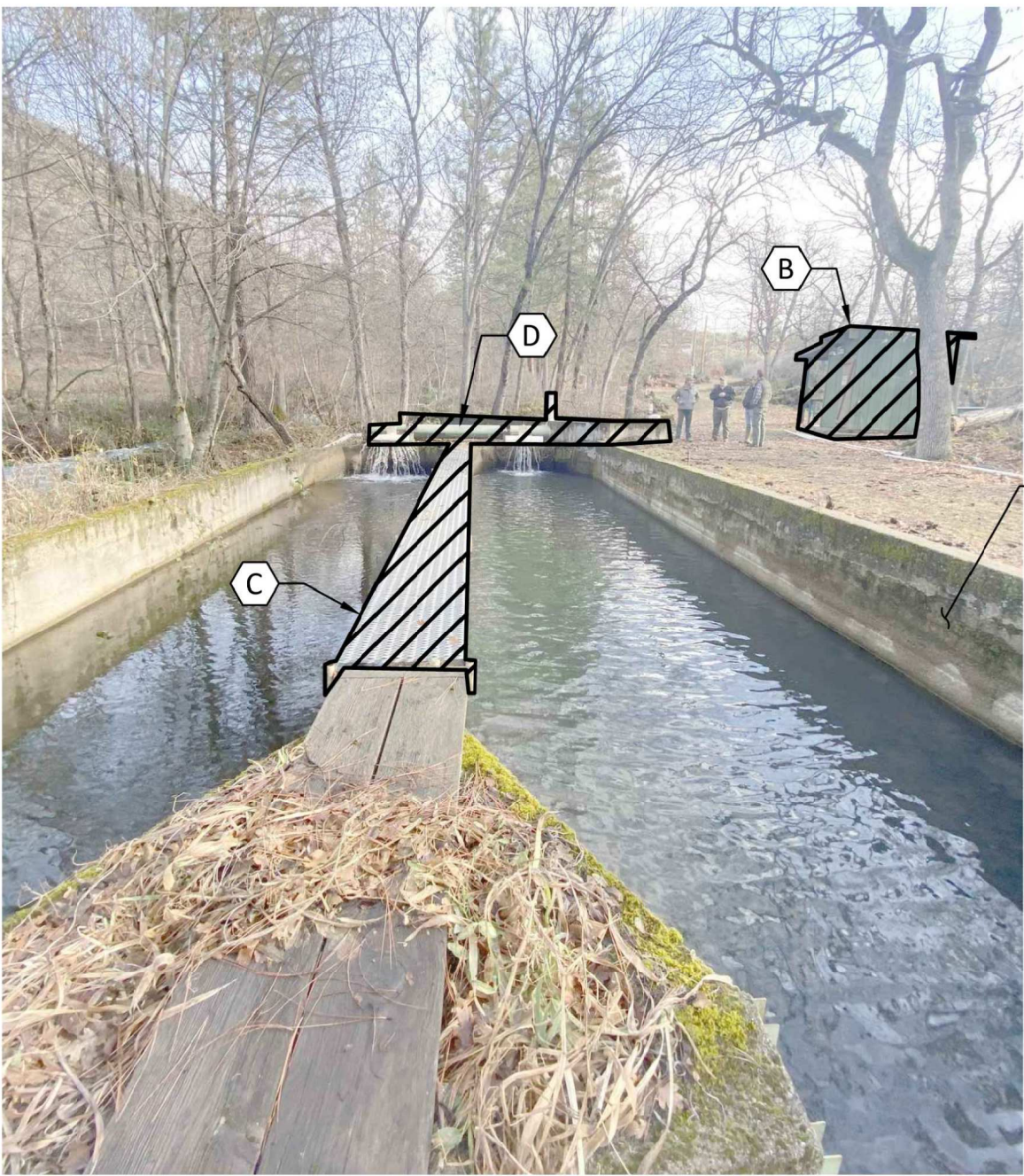


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SCALE: NTS

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REV	DATE	BY	DESCRIPTION



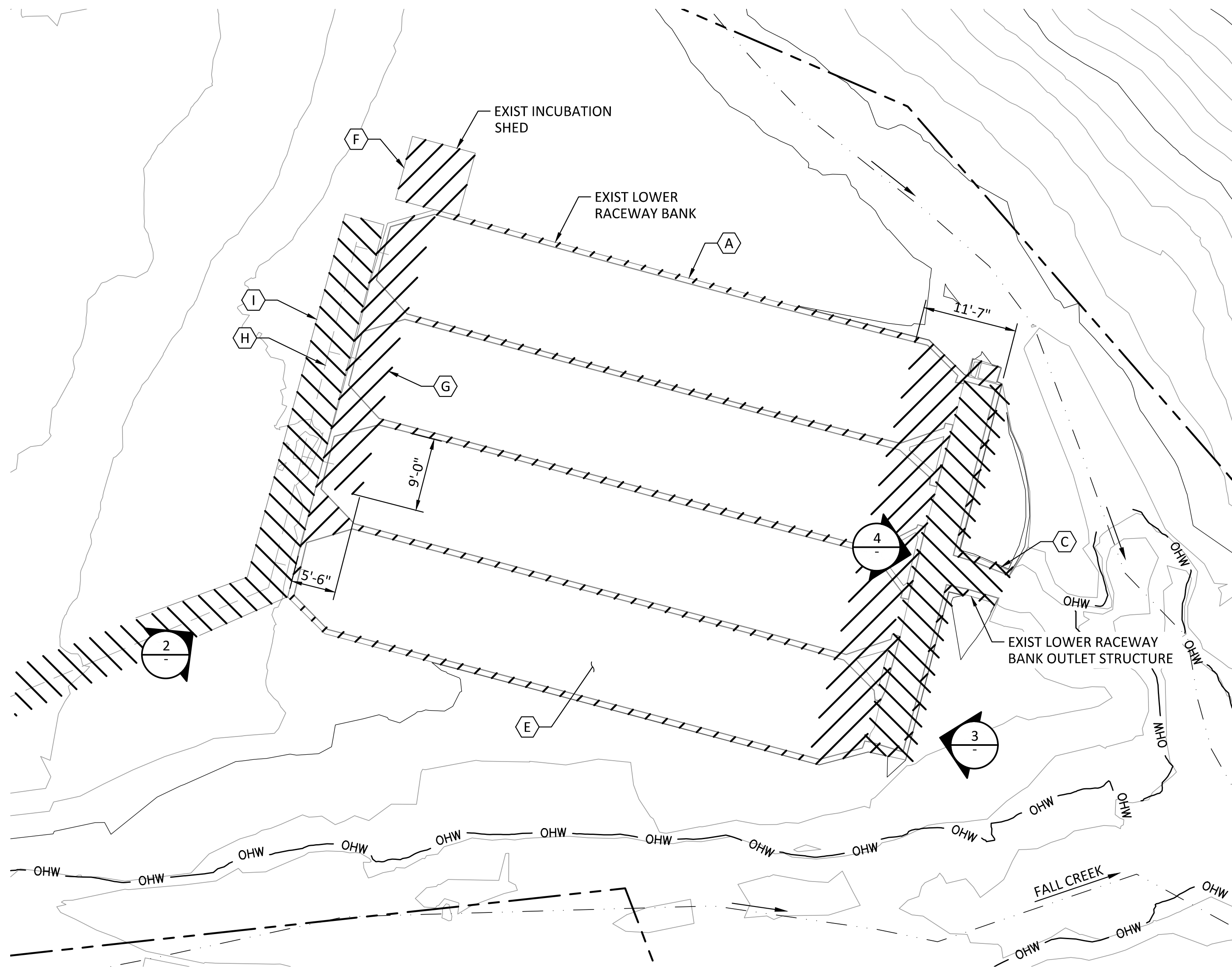
WARNING

0 1/2 1

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



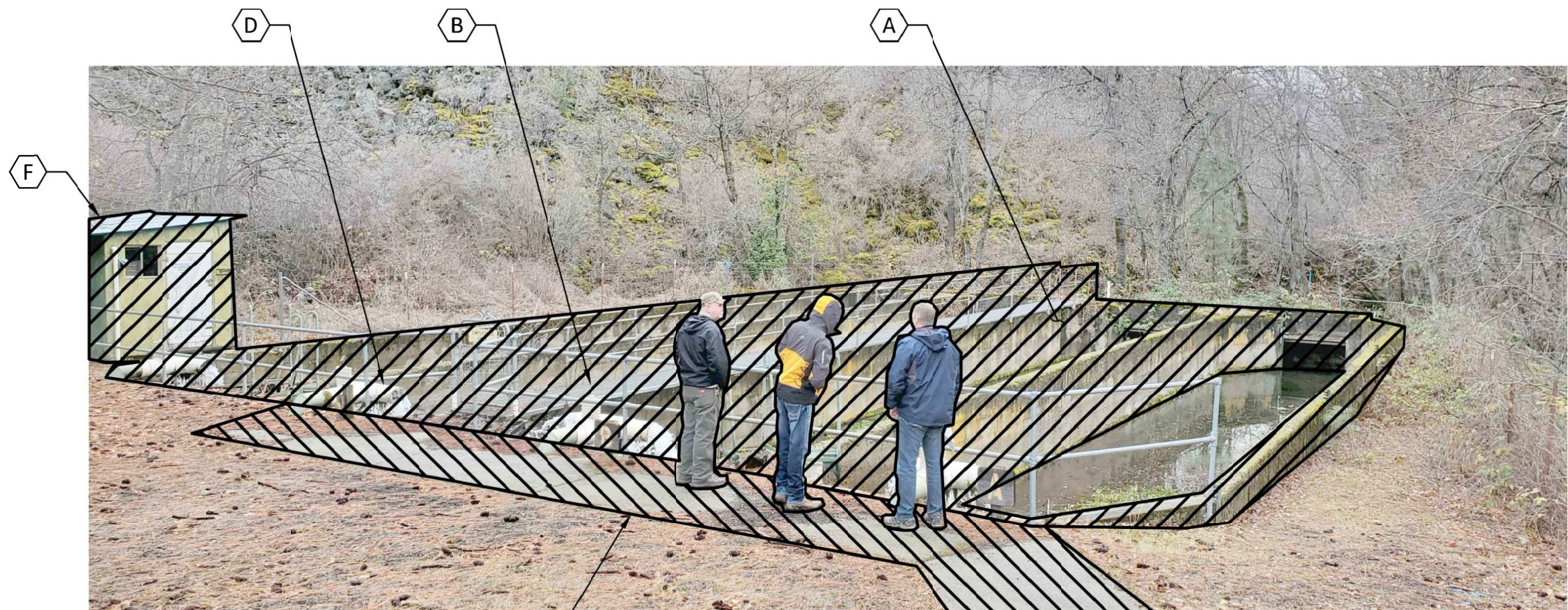
KLAMATH RIVER RENEWAL CORPORATION		DESIGNED <u>A. JABIR</u>	DRAWING D101
FALL CREEK FISH HATCHERY		DRAWN <u>J. LAHMON</u>	
ENLARGED FLUME DEMO PLAN AND PHOTOS		CHECKED <u>T. BOWEN</u>	
		PROJECT DATE <u>10/28/20</u>	



DEMOLITION DETAIL

SCALE: 1"= 10'

0" 10' 20' 1 D100



PHOTO

SCALE: NTS

2 -



PHOTO

SCALE: NTS

3 -



PHOTO

SCALE: NTS

4 -

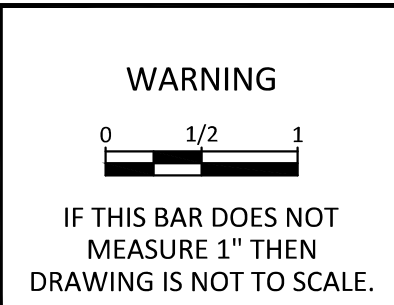
SHEET NOTES:

1. THE EXISTING CONCRETE SLAB, WHERE INDICATED, SHALL BE RETAINED AND PROTECTED. DURING CONSTRUCTION NO DRIVING OF CONSTRUCTION EQUIPMENT ON THE CONCRETE PAD SHALL BE ALLOWED. CONSTRUCTION EQUIPMENT SHALL ACCESS THIS AREA FROM OUTSIDE THE EXISTING PAD.

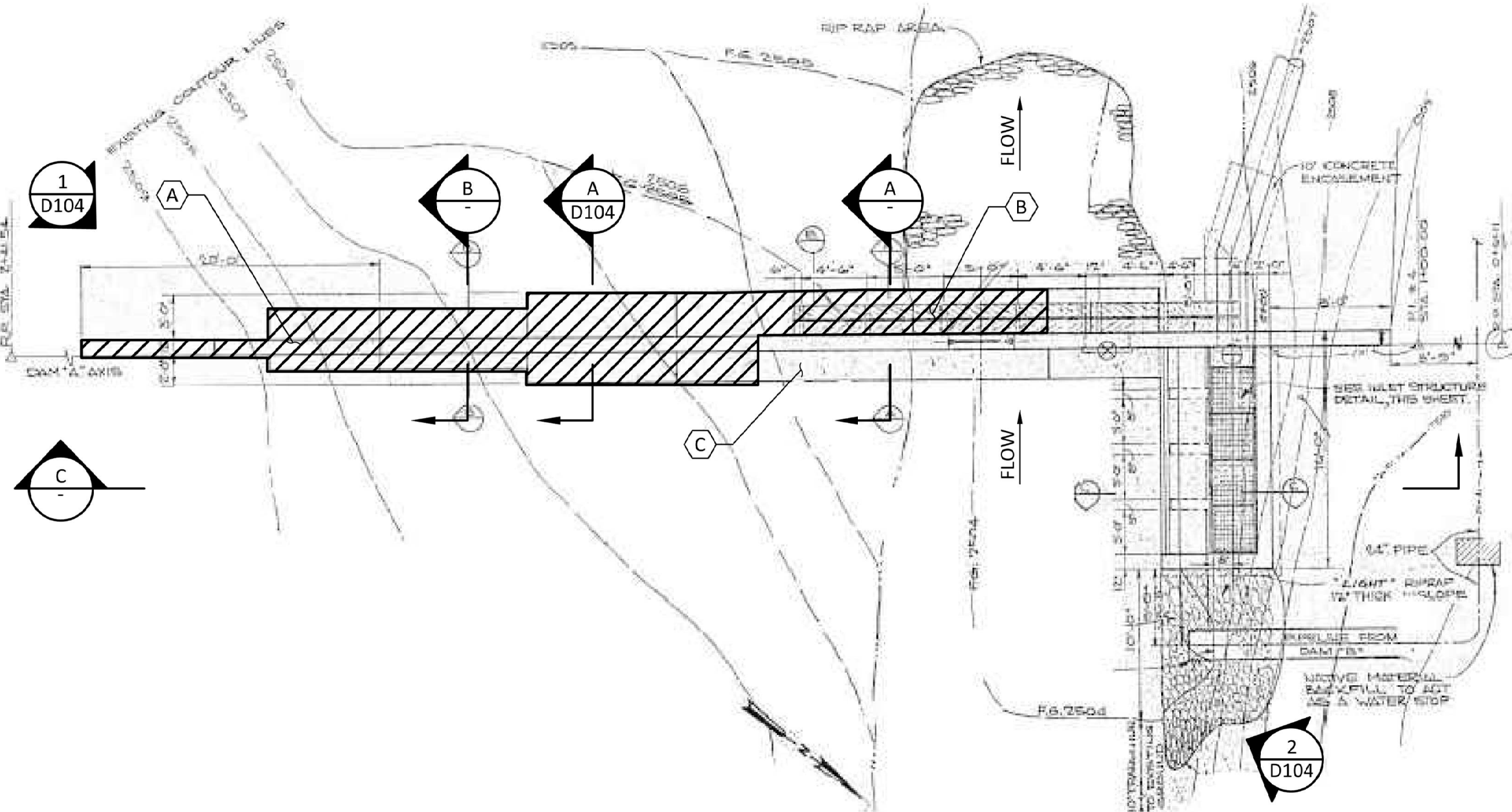
SHEET KEY NOTES:

- A DEMOLISH AND REMOVE CONCRETE WALLS DOWN TO EXISTING SLAB.
- B DEMOLISH AND REMOVE STEEL WALKWAY GRATING, SUPPORTS, GUARDRAIL AND LADDERS.
- C DEMOLISH CONCRETE OUTLET STRUCTURE WALLS, SLAB AND PIPING. DEMOLISH ADJACENT RACEWAY SLAB TO THE EXTENTS SHOWN.
- D DEMOLISH PVC PIPING.
- E PROTECT EXIST CONC SLAB. BURN BACK EXIST REBAR 2" BELOW SURFACE.
- F DEMOLISH AND REMOVE BUILDING AND CONC FOUNDATIONS.
- G DEMOLISH EXISTING SLAB LOCALLY FOR CONSTRUCTION OF DIFFUSER BOX, SETTLING POND WET WELL, AND VALVE BOX. DEMOLISH ONLY TO THE EXTENTS SHOWN.
- H DEMOLISH BURIED PVC PIPE FROM EXISTING CONCRETE SUPPLY FLUME TO EXISTING LOWER RACEWAY BANK. NO PIPE SIZE INFORMATION IS AVAILABLE FOR THE BURIED PIPE.
- I DEMOLISH EXISTING CONCRETE SIDEWALK.
- J REMOVE EXISTING TREE, AS REQUIRED FOR CONSTRUCTION. NOT ALL TREE REMOVAL REQUIRED IS DOCUMENTED HERE. SEE SPECIFICATION 31 11 00 FOR DETAILS ON TREE REMOVAL WITHIN CONSTRUCTION LIMITS.

REV	DATE	BY	DESCRIPTION
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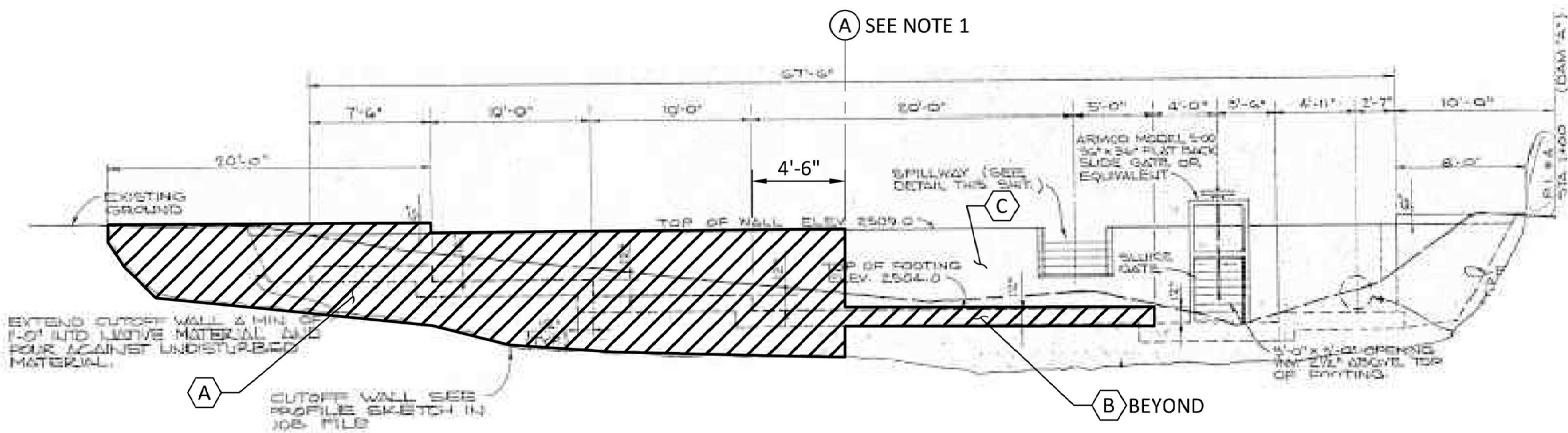


KLAMATH RIVER RENEWAL CORPORATION		DESIGNED <u>A. JABIR</u>	DRAWING D102
FALL CREEK FISH HATCHERY		DRAWN <u>J. LAHMON</u>	
ENLARGED RACEWAY DEMO PLAN AND PHOTOS		CHECKED <u>T. BOWEN</u>	
		PROJECT DATE <u>10/28/20</u>	



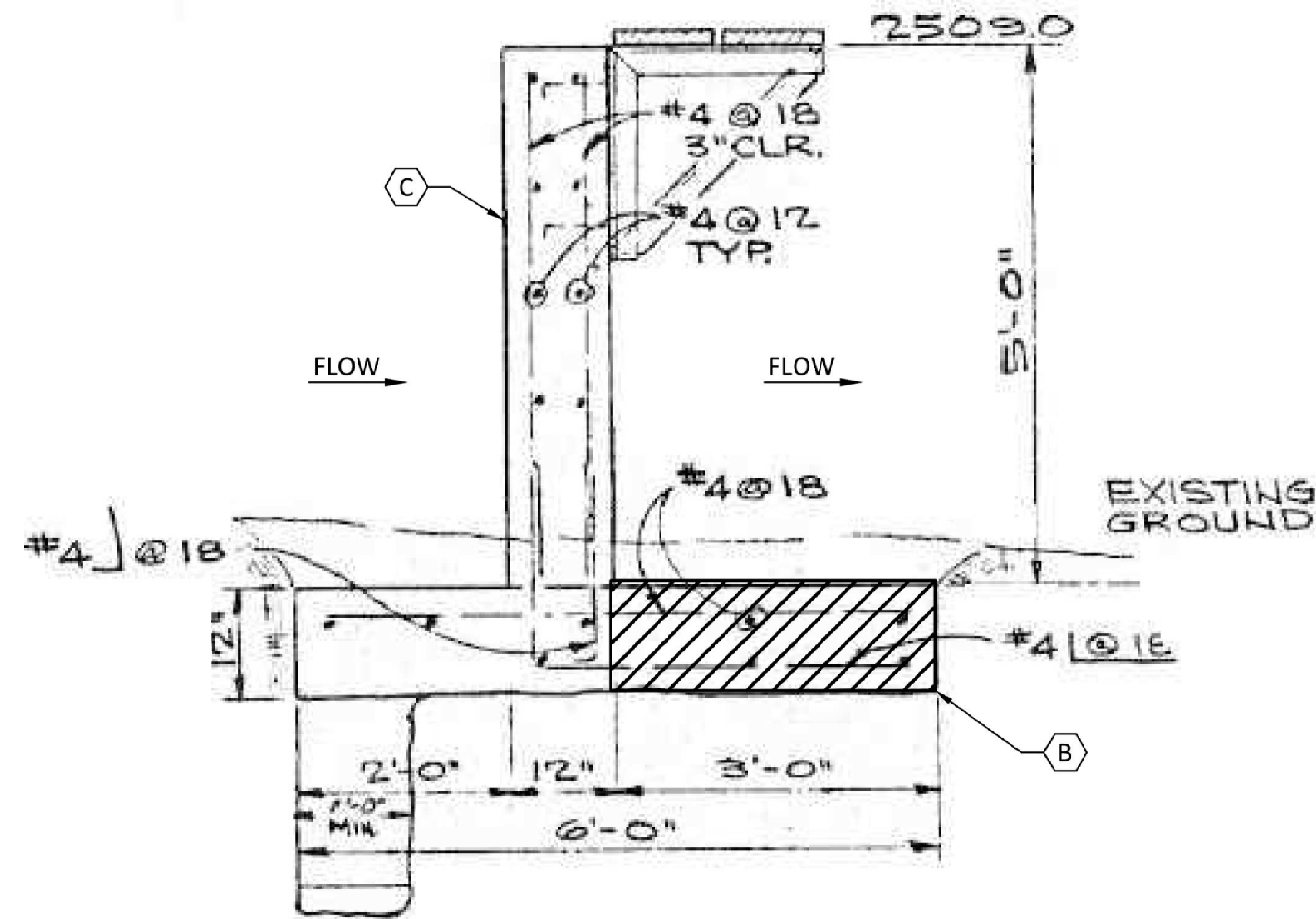
DEMOLITION DETAIL
SCALE: NTS

1
D104



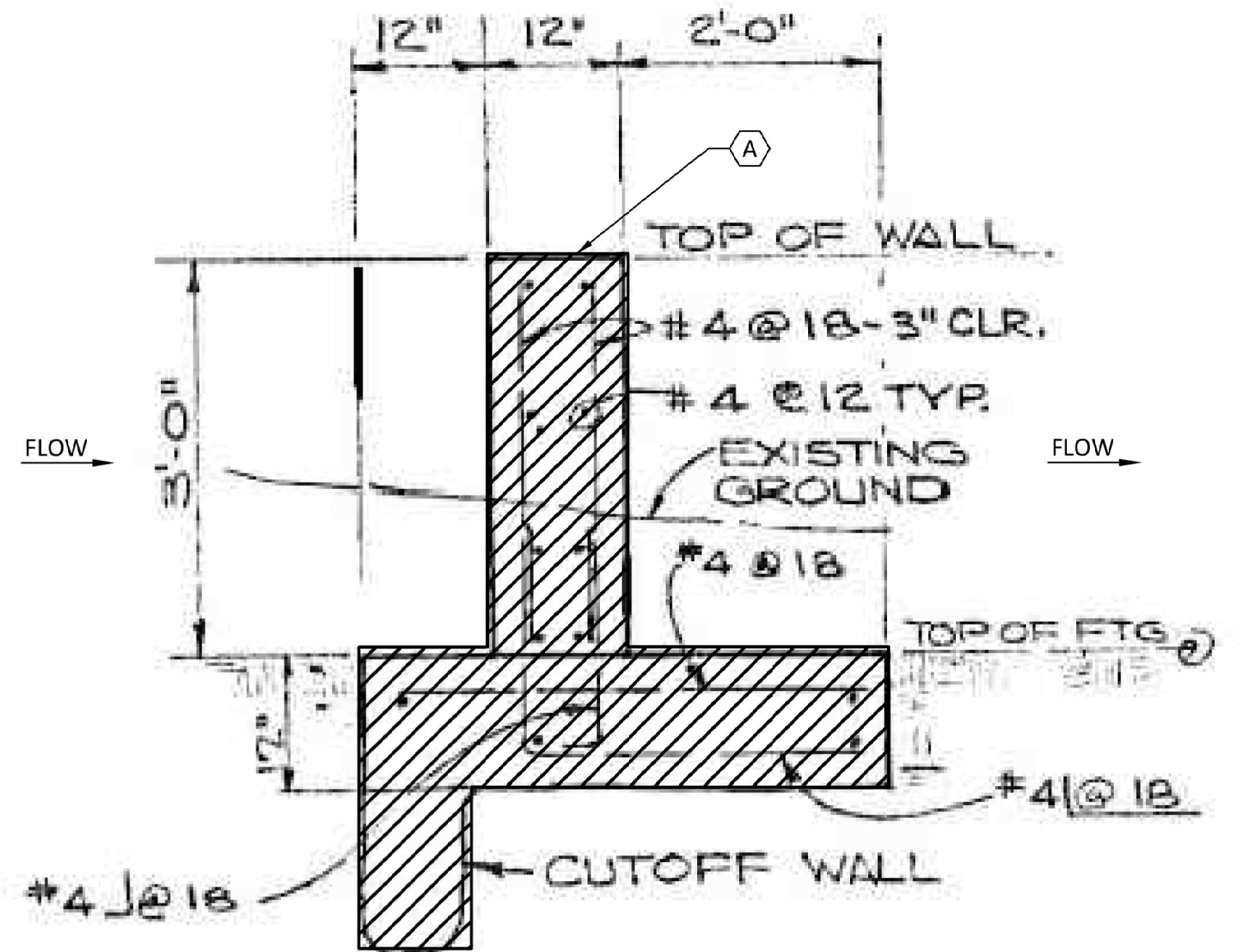
ELEVATION
SCALE: NTS

C
-



SECTION
SCALE: NTS

A
-



SECTION
SCALE: NTS

B
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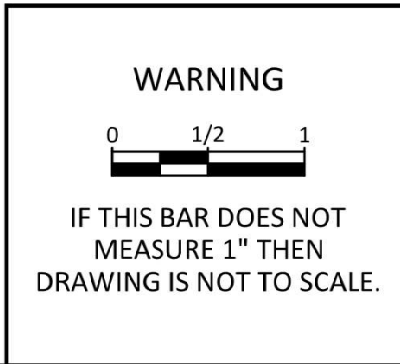
SHEET KEY NOTES:

- A DEMOLISH AND REMOVE DAM WALL, COMPLETE DAM FOOTING, AND CUTOFF WALL.
- B DEMOLISH AND REMOVE DAM FOOTING TOE ONLY. CUT OR BURN REBAR 2" BACK FROM EXPOSED SURFACE.
- C PROTECT WALL, WALKWAY, FOOTING HEEL AND CUTOFF WALL.

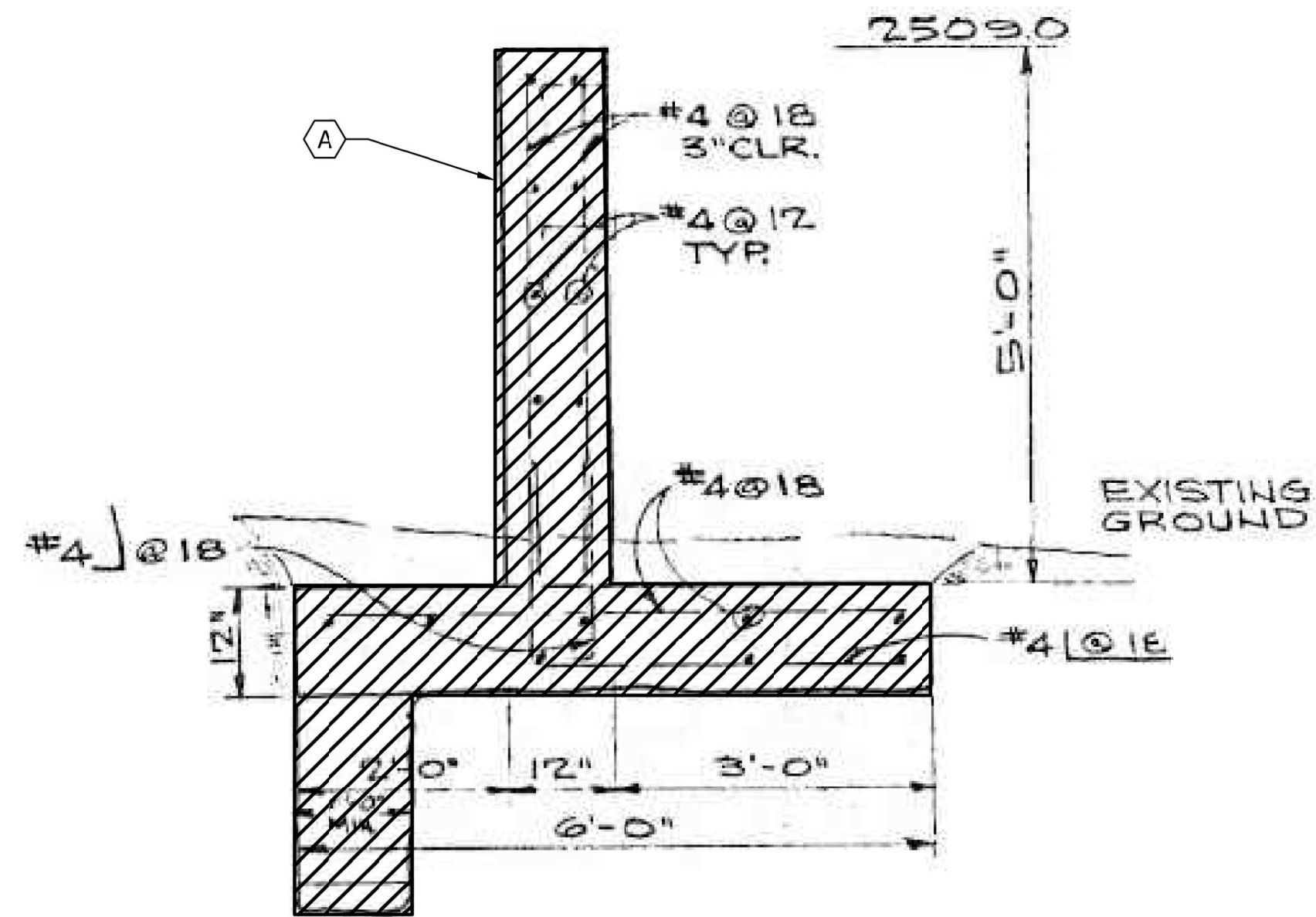
SHEET NOTES:

- 1. GRIDLINE CORRELATING DEMOLITION WORK TO PROPOSED WORK SHOWN ON SHEET S200.

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



KLAMATH RIVER RENEWAL CORPORATION	DESIGNED <u>A. JABIR</u>	DRAWING D103
FALL CREEK FISH HATCHERY	DRAWN <u>J. LAHMON</u>	
ENLARGED DAM A DEMO PLAN AND SECTIONS	CHECKED <u>T. BOWEN</u>	
	PROJECT DATE <u>10/28/20</u>	



SECTION
SCALE: NTS

A
D103

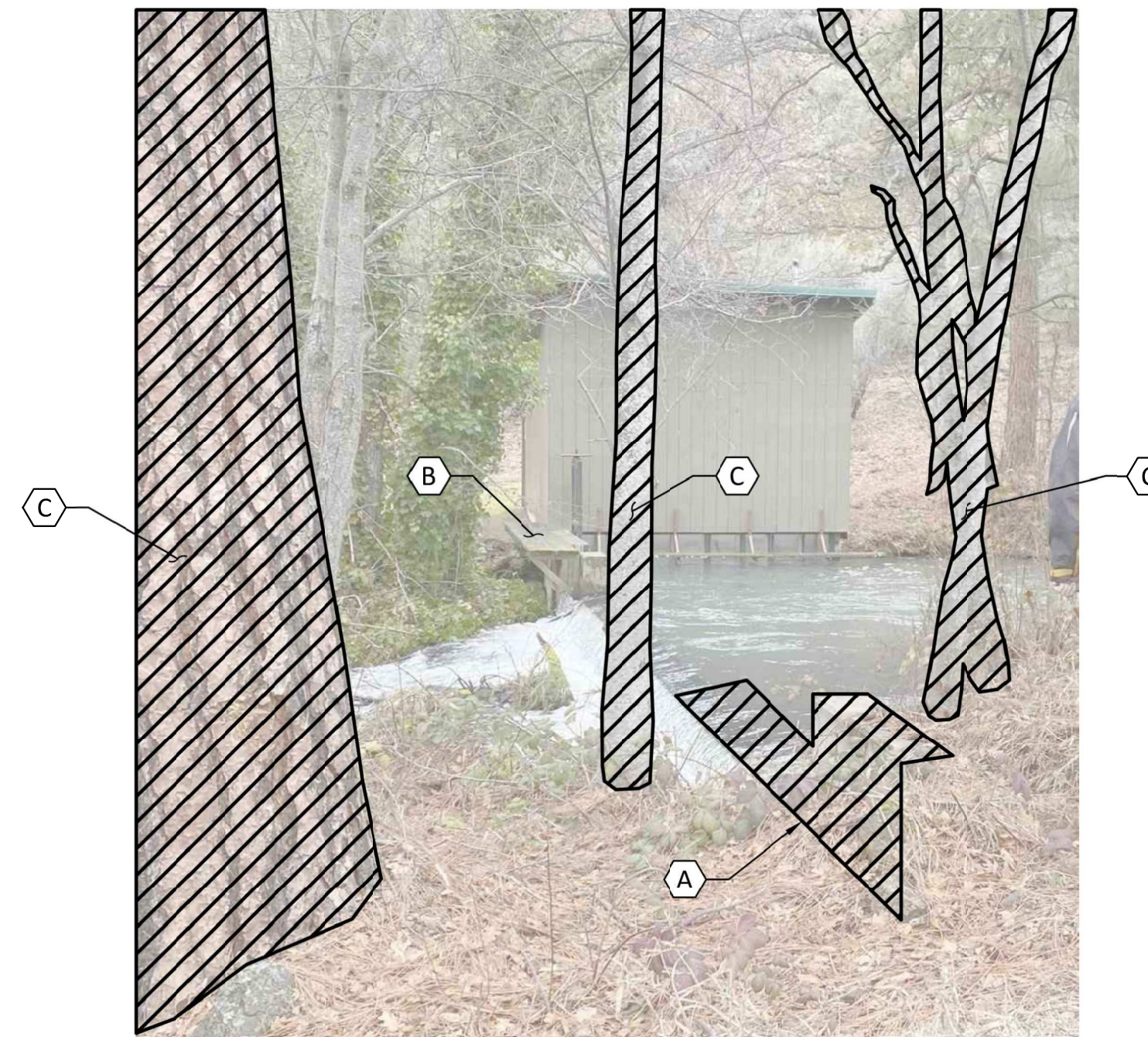


PHOTO
SCALE: NTS

1
D103

SHEET KEY NOTES:

- A DEMOLISH AND REMOVE DAM WALL, COMPLETE DAM FOOTING, AND CUTOFF WALL AT LOCATION OF INTAKE STRUCTURE.
- B PROTECT WALL, WALKWAY, FOOTING HEEL AND CUTOFF WALL.
- C REMOVE EXISTING TREE, AS REQUIRED FOR CONSTRUCTION. NOT ALL TREE REMOVAL REQUIRED IS DOCUMENTED HERE. SEE SPECIFICATION 31 11 00 FOR DETAILS ON TREE REMOVAL WITHIN CONSTRUCTION LIMITS.

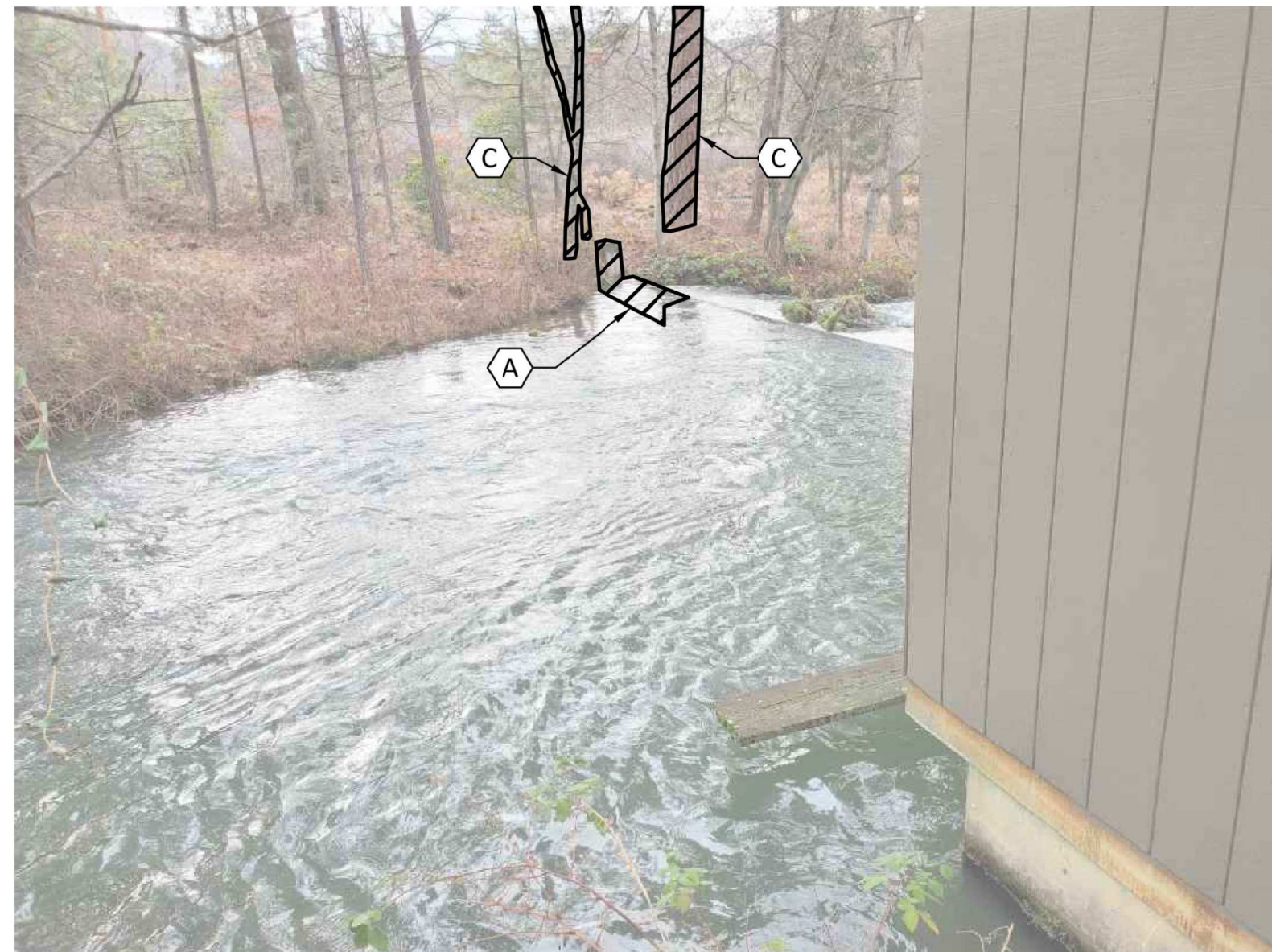
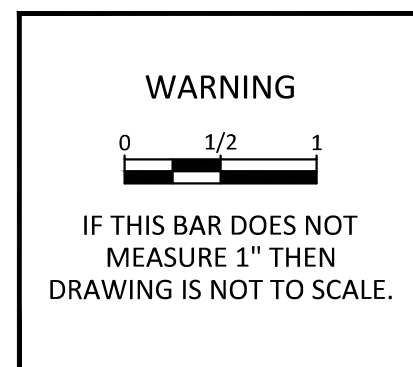
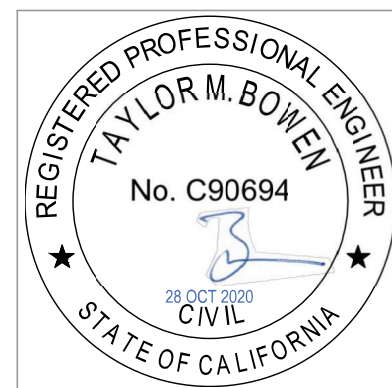


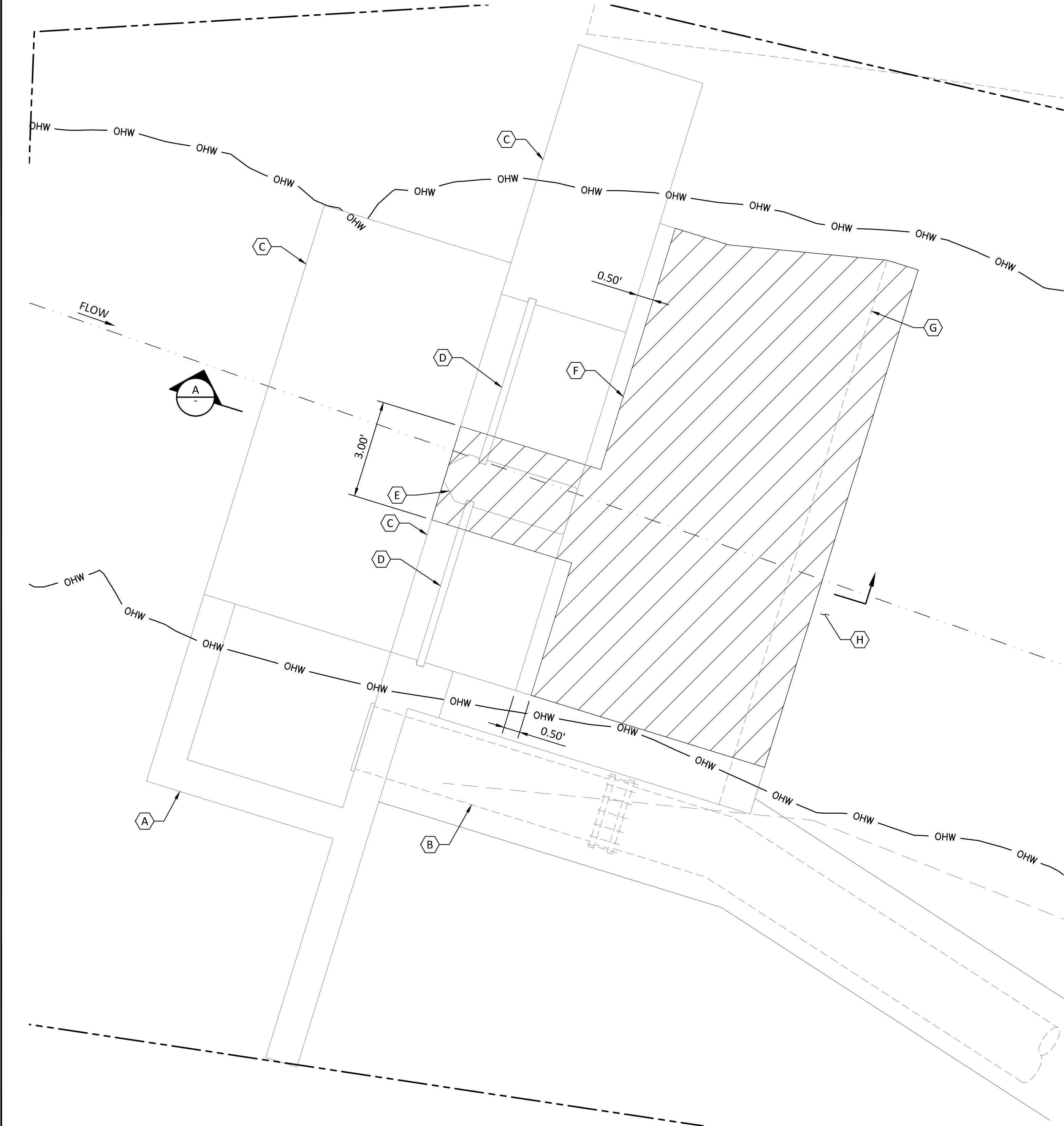
PHOTO
SCALE: NTS

2
D103

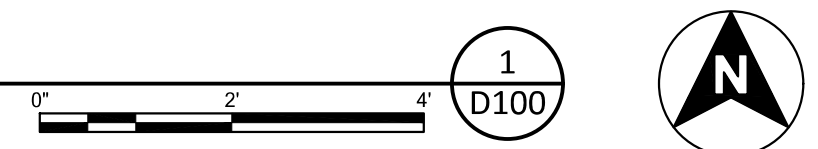
REV	DATE	BY	DESCRIPTION
0	10/28/20	MDM	ISSUED FOR CONSTRUCTION



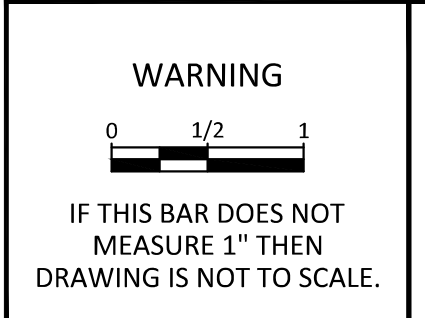
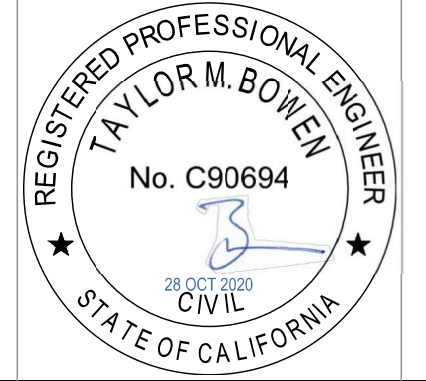
KLAMATH RIVER RENEWAL CORPORATION		DESIGNED <u>A. JABIR</u>	DRAWING D104
FALL CREEK FISH HATCHERY		DRAWN <u>J. LAHMOM</u>	
DAM A DEMO SECTIONS AND PHOTOS		CHECKED <u>T. BOWEN</u>	
		PROJECT DATE <u>10/28/20</u>	



ENLARGED DAM B DEMO PLAN
SCALE: 1"= 2'



REV	DATE	BY	DESCRIPTION
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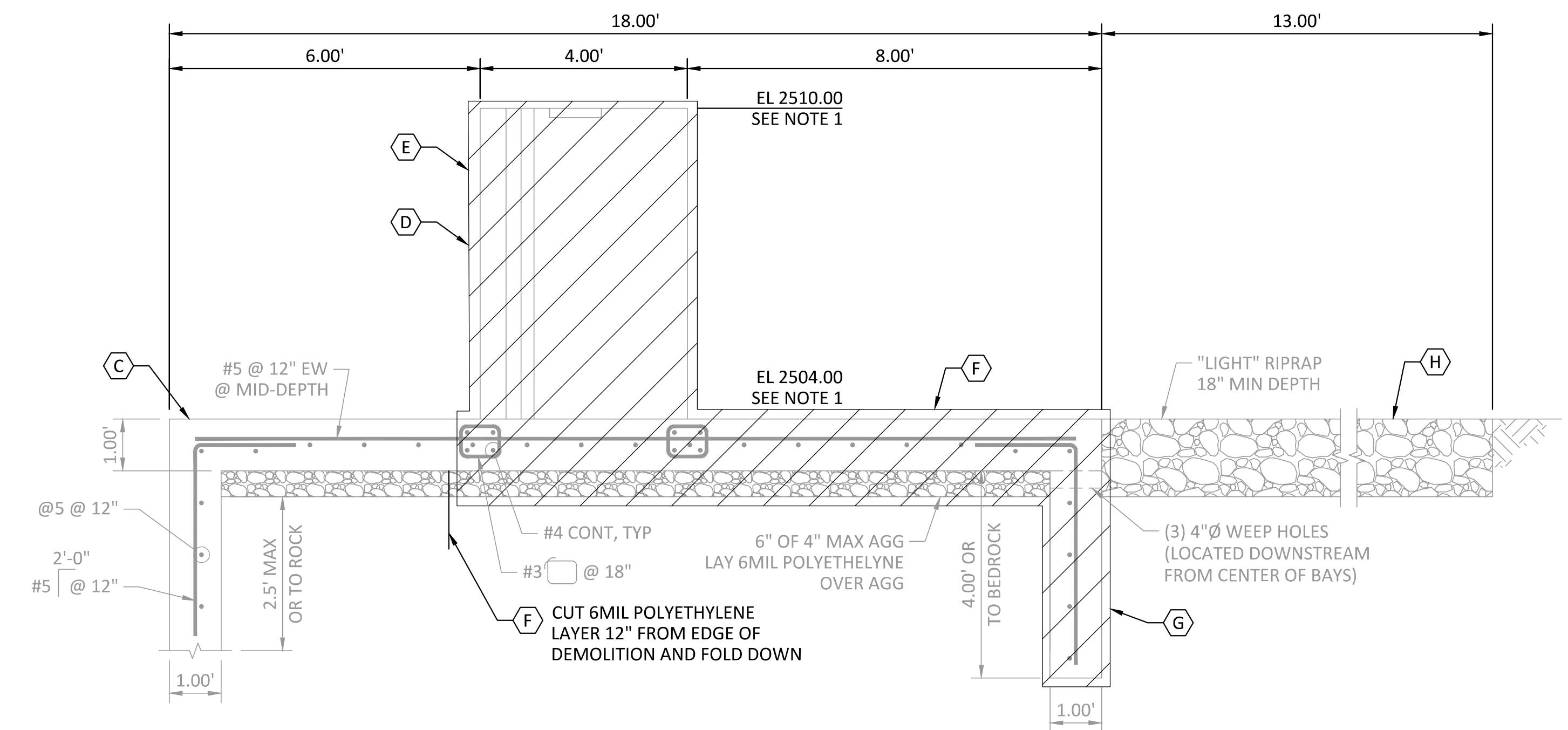
KLAMATH RIVER RENEWAL CORPORATION		DESIGNED <u>A. JABIR</u>	DRAWING D105
FALL CREEK FISH HATCHERY		DRAWN <u>J. LAHMON</u>	
ENLARGED DAM B DEMO PLAN AND SECTIONS		CHECKED <u>T. BOWEN</u>	
		PROJECT DATE <u>10/28/20</u>	

SHEET NOTES:

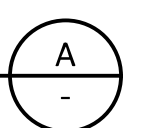
- ELEVATIONS SHOWN IN AS-BUILT SECTION UTILIZE A DIFFERENT VERTICAL DATUM THAN THE PROJECT VERTICAL DATUM, AND SHOULD NOT BE USED FOR REFERENCE.

SHEET KEY NOTES:

- A RETAIN AND PROTECT EXIST CITY OF YREKA INTAKE. INTAKE TO REMAIN IN OPERATION FOR ENTIRE DURATION OF CONSTRUCTION.
- B RETAIN AND PROTECT EXISTING CITY OF YREKA SUPPLY PIPE. PRIOR TO ANY EARTHWORKS OR DEMOLITION IN THIS AREA, CONTRACTOR TO FIELD LOCATE THE EXIST PIPE AND PROVIDE PROTECTIVE MEASURES SUCH THAT PIPE REMAINS UNIMPACTED BY CONSTRUCTION. CITY OF YREKA SUPPLY PIPE SHALL REMAIN IN OPERATION FOR ENTIRE DURATION OF CONSTRUCTION.
- C RETAIN AND PROTECT EXISTING DAM B STRUCTURE, IMPOUNDMENT CONC SLAB, AND DOWNSTREAM APRON CONC SLAB WHERE NO DEMOLITION IS INDICATED. EXTENTS SHOWN ARE APPROXIMATE BASED ON AS-BUILT DATA PROVIDED BY THE CITY OF YREKA. EXTENTS SHALL BE DETERMINED IN THE FIELD. CONTRACTOR SHALL NOT LOAD THE EXIST DAM STRUCTURE OR CONC SLABS TO BE RETAINED WITH HEAVY EQUIPMENT.
- D SALVAGE EXIST STOP LOGS, AND COORDINATE RELOCATION WITH THE OWNER.
- E DEMOLISH EXIST CONC PIER, INCLUDING STOP LOG SLOTS. PIER DIMENSIONS ARE APPROXIMATELY 4.0' x 1.5'W x 6'H.
- F DEMOLISH EXIST CONC SLAB, AS INDICATED. CUT OR BURN REBAR BACK 2" FROM EXPOSED SURFACE. SLAB THICKNESS APPROXIMATELY 12" PER CITY OF YREKA AS-BUILTS. DIMENSIONS TO BE CONFIRMED IN THE FIELD. AS PART OF SLAB REMOVAL, REMOVE 6" THICK LAYER OF DRAIN AGGREGATE SUBGRADE AND CUT EXIST 6MIL POLYETHYLENE LAYER 12" FROM THE EDGE OF THE CONC DEMOLITION. FOLD 6MIL POLYETHYLENE LAYER DOWN OVER DRAIN AGGREGATE AT THE JUNCTION WITH THE REMAINING CONC SLAB.
- G DEMOLISH EXIST CUT-OFF WALL. CUT-OFF WALL APPROXIMATELY 12" THICK AND 4.0' DEEP (OR TO BEDROCK, WHICHEVER IS SHORTER) PER CITY OF YREKA AS-BUILTS.
- H AS PART OF THE SUBGRADE PREPARATION FOR THE NEW CONCRETE VELOCITY APRON CONSTRUCTION, REMOVE EXIST "LIGHT" RIPRAP PRIOR TO PLACEMENT OF APRON SUBGRADE FILL MATERIALS.



SECTION
SCALE: NTS



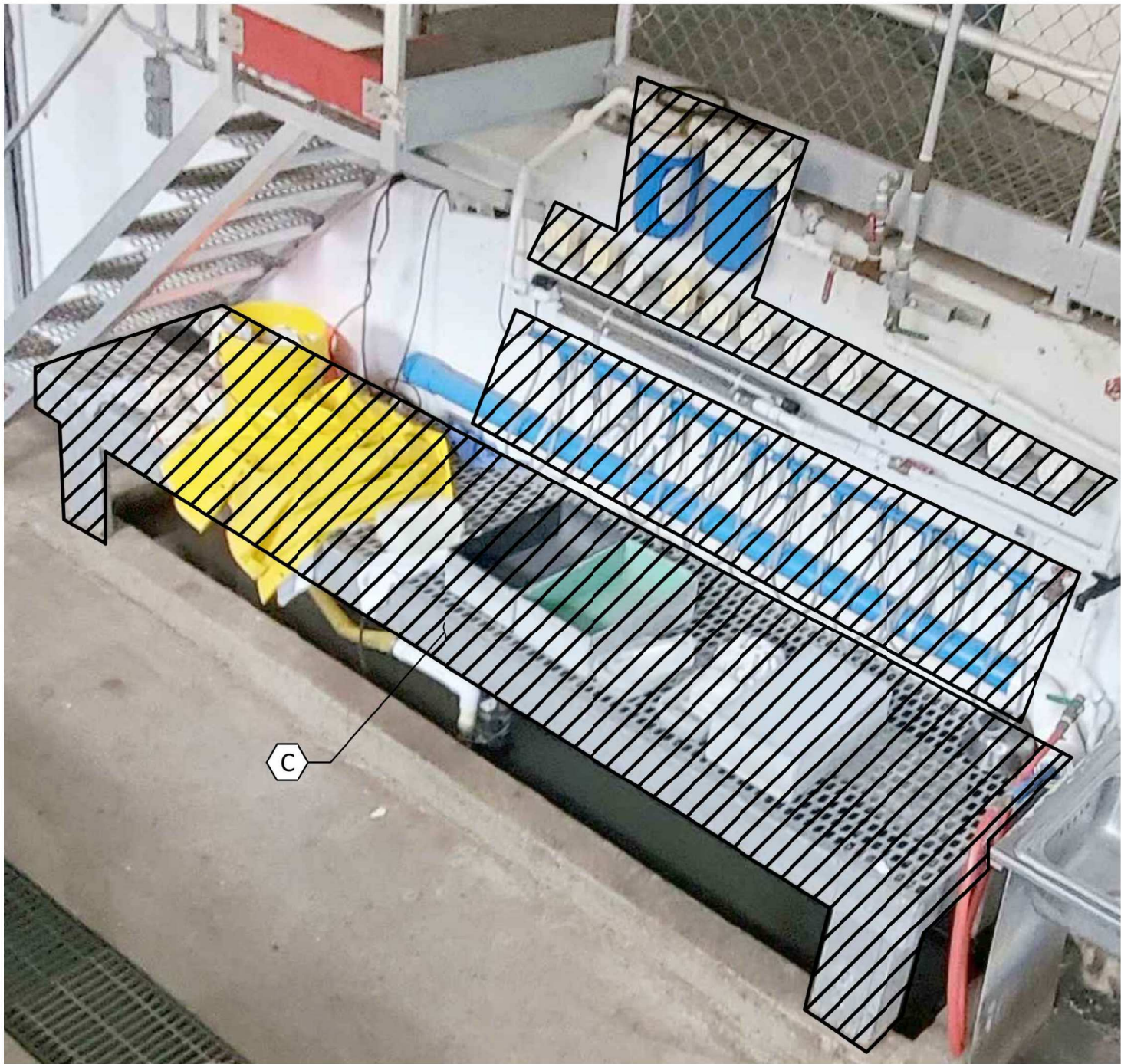


ELECTROANESTHESIA TANKS
SCALE: NTS



SPAWNING TABLE
SCALE: NTS

- SHEET KEY NOTES:
- A SALVAGE AND RELOCATE ELECTROANESTHESIA TANK, GUIDE RAILS, HYDRAULIC PUMP AND HYDRAULIC MANIFOLD FROM IRON GATE HATCHERY.
 - B SALVAGE AND RELOCATE SPAWNING TABLE, HOLDING TABLE, AND TRANSFER FLUMES FROM IRON GATE HATCHERY.
 - C SALVAGE AND RELOCATE WATER HARDENING TABLE, SUPPLY MANIFOLD, FILTERS AND UV LAMP FROM IRON GATE HATCHERY.
 - D SALVAGE AND RELOCATE EGG RINSE TABLE FROM IRON GATE HATCHERY.
 - E SALVAGE AND RELOCATE CONVEYOR BELT, MOTOR, AND TWO (2) 10-FT CONVEYOR FRAME SEGMENTS FROM IRON GATE HATCHERY.



WATERING HARDENING TABLE
SCALE: NTS

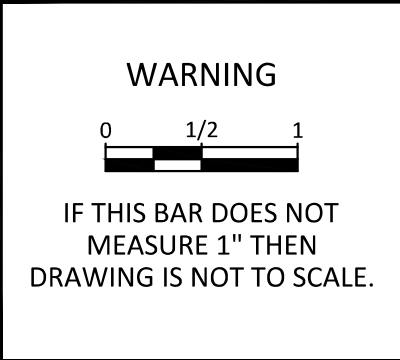


EGG RINSE TABLE
SCALE: NTS



CONVEYOR BELT
SCALE: NTS

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



KLAMATH RIVER RENEWAL CORPORATION		DESIGNED <u>S.ELLENSON</u>	DRAWING D601
FALL CREEK FISH HATCHERY		DRAWN <u>D. JOHNSTON</u>	
IRON GATE HATCHERY EQUIPMENT RELOCATION PLAN		CHECKED <u>K. DeSOMBER</u>	
		PROJECT DATE <u>10/28/20</u>	



CROWDER (FRONT VIEW)

SCALE: NTS



CROWDER (UNDERSIDE VIEW)

SCALE: NTS

SHEET NOTES:

- 1. SEE MECHANICAL DRAWINGS FOR PROPOSED MODIFICATIONS TO FISH CROWDER FOLLOWING RELOCATION.

SHEET KEY NOTES:

- A SALVAGE AND RELOCATE MECHANICAL FISH CROWDER FROM IRON GATE FISH HATCHERY.
- B CUT 34" OFF LOWER GUIDES PRIOR TO RELOCATION. TOTAL HEIGHT OF GUIDE SHALL BE 97 3/4" AFTER DEMO.
- C DEMOLISH LOWER BRACE PRIOR TO RELOCATION.
- D DEMOLISH REAR BRACE PRIOR TO RELOCATION.

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REV	DATE	BY	DESCRIPTION



WARNING

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



KLAMATH RIVER RENEWAL CORPORATION		DESIGNED <u>S.ELLENSON</u>	DRAWING D602
FALL CREEK FISH HATCHERY		DRAWN <u>D. JOHNSTON</u>	
IRON GATE HATCHERY CROWDER MODIFICATION		CHECKED <u>K. DeSOMBER</u>	
		PROJECT DATE <u>10/28/20</u>	

GENERAL PROJECT NOTES:

- 1. ELEVATIONS GIVEN ARE TO FINISH GRADE UNLESS OTHERWISE SHOWN.
- 2. SLOPE UNIFORMLY BETWEEN CONTOURS AND SPOT ELEVATIONS SHOWN.
- 3. GEOTECHNICAL EVALUATION WAS NOT PREPARED SPECIFICALLY FOR THE FALL CREEK FISH HATCHERY PROJECT. HOWEVER, TWO BORINGS WERE COMPLETED BY AECOM IN 2019 TO SUPPORT THE COPCO BRIDGE DESIGN. REFER TO LOG OF CORE BORINGS B-13 AND B-14 PROVIDED AS AN ATTACHMENT TO THE SPECIFICATIONS.
- 4. CONTRACTOR SHALL REPAIR ALL EXIST SURFACE, UTILITIES, BUILDINGS, AND FOUNDATIONS IMPACTED BY CONSTRUCTION, WHICH ARE NOT INDICATED TO BE DEMOLISHED.
- 5. CONTRACTOR SHALL KEEP ALL CONSTRUCTION WITHIN THE WORK BOUNDARIES DEFINED FOR THIS PROJECT AS SHOWN. THIS INCLUDES, BUT IS NOT LIMITED TO, VEHICLES AND EQUIPMENT, LIMITS OF TRENCH EXCAVATION, STOCKPILED EXCAVATED MATERIAL, BACKFILL MATERIAL, AND PIPE MATERIAL.
- 6. SEE SPECIFICATION 31 00 00 FOR AGGREGATE MATERIAL TYPES.

GENERAL CONSTRUCTION NOTES:

- 1. ALL MATERIAL FURNISHED ON, OR FOR THE PROJECT, MUST MEET THE MINIMUM REQUIREMENTS OF APPROVING AGENCIES. AT THE REQUEST OF THE APPROVING AGENCY OR THE DESIGN ENGINEER, CONTRACTORS SHALL FURNISH PROOF THAT ALL MATERIALS INSTALLED ON THIS PROJECT MEET THE SPECIFICATION REQUIREMENTS SET FORTH IN THE PROJECT SPECIFICATIONS.
- 2. ANY DEVIATION FROM THE APPROVED PLANS AND SPECIFICATIONS MUST HAVE DESIGN ENGINEER AND OWNER APPROVAL IN WRITING PRIOR TO CONSTRUCTION.
- 3. ALL DISTURBED SURFACES SHALL BE RETURNED TO ORIGINAL OR BETTER CONDITIONS.

GENERAL YARD PIPING AND UTILITY NOTES:

- 1. EXIST BASE MAP MAY CONTAIN ERRORS. CONTRACTOR TO VERIFY LOCATION OF EXIST PIPES, STRUCTURES, AND OVERHEAD UTILITIES PRIOR TO THE START OF CONSTRUCTION OR THE SUBMITTAL OF SHOP DRAWINGS.
- 2. EXIST PIPING LOCATIONS ARE UNKNOWN. CONTRACTOR SHALL DEMOLISH ALL EXIST PIPING SYSTEMS AS APPROVED BY THE ENGINEER.
- 3. THE CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES TO REMAIN.
- 4. THE CONTRACTOR SHALL CONTACT THE UTILITY AGENCIES FOR FIELD LOCATION OF UTILITIES, AT LEAST 72 HOURS PRIOR TO START OF CONSTRUCTION.
- 5. SHADING, SCREENING, OR LIGHT-LINING OF PIPING AND/OR EQUIPMENT IS USED TO INDICATE EXIST COMPONENTS OR TO DE-EMPHASIZE PROPOSED IMPROVEMENTS FOR WHICH INFORMATION IS PRESENTED ELSEWHERE IN THE DRAWINGS. REFER TO CONTENT OF EACH SHEET FOR USAGE.
- 6. THE CONTRACTOR SHALL PROVIDE A MINIMUM OF 24" COVER ON TOP OF ALL PIPELINES UNLESS OTHERWISE INDICATED OR DIRECTED.
- 7. ELEVATIONS SHOWN ARE TO THE INVERT (FLOWLINE) OF PIPES, UNLESS OTHERWISE NOTED.
- 8. STRAIGHT SLOPES SHALL BE MAINTAINED BETWEEN INVERTS SHOWN OR SPECIFIED.
- 9. THE CONTRACTOR SHALL ADJUST ALL VALVE BOXES, PULL BOXES, AND MANHOLES TO FINISHED GRADE UNLESS OTHERWISE SHOWN OR SPECIFIED.
- 10. ALL PIPE TRENCHING AND BACKFILL SHALL BE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- 11. ALL BUILDING COORDINATES ARE TO OUTSIDE CORNER OF BUILDING STEM WALL UNLESS OTHERWISE NOTED.
- 12. FOR PIPING INSIDE STRUCTURES AND POND INLETS, SEE MECHANICAL DRAWINGS.
- 13. THE CONTRACTOR SHALL PROVIDE PIPE PENETRATIONS PER MECHANICAL DETAILS M402 OR M404 FOR ALL PIPES PENETRATING CONC STRUCTURES, UNLESS SHOWN OTHERWISE.
- 14. THE CONTRACTOR SHALL PROVIDE TRANSITION COUPLINGS AT ALL YARD PIPE JOINTS WHERE THERE IS A MATERIAL CHANGE, UNLESS NOTED OTHERWISE.
- 15. CONC THRUST BLOCKS PER DETAIL C605 SHALL BE PLACED ON ALL BENDS AND TEES FOR ALL PIPELINES 4"Ø AND LARGER WHERE PIPES ARE INDICATED TO BE PRESSURIZED.
- 16. ALL SLEEVE COUPLINGS ON YARD PIPING SHALL BE UNRESTRAINED, UNLESS NOTED OTHERWISE.

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REV	DATE	BY	DESCRIPTION



WARNING

0

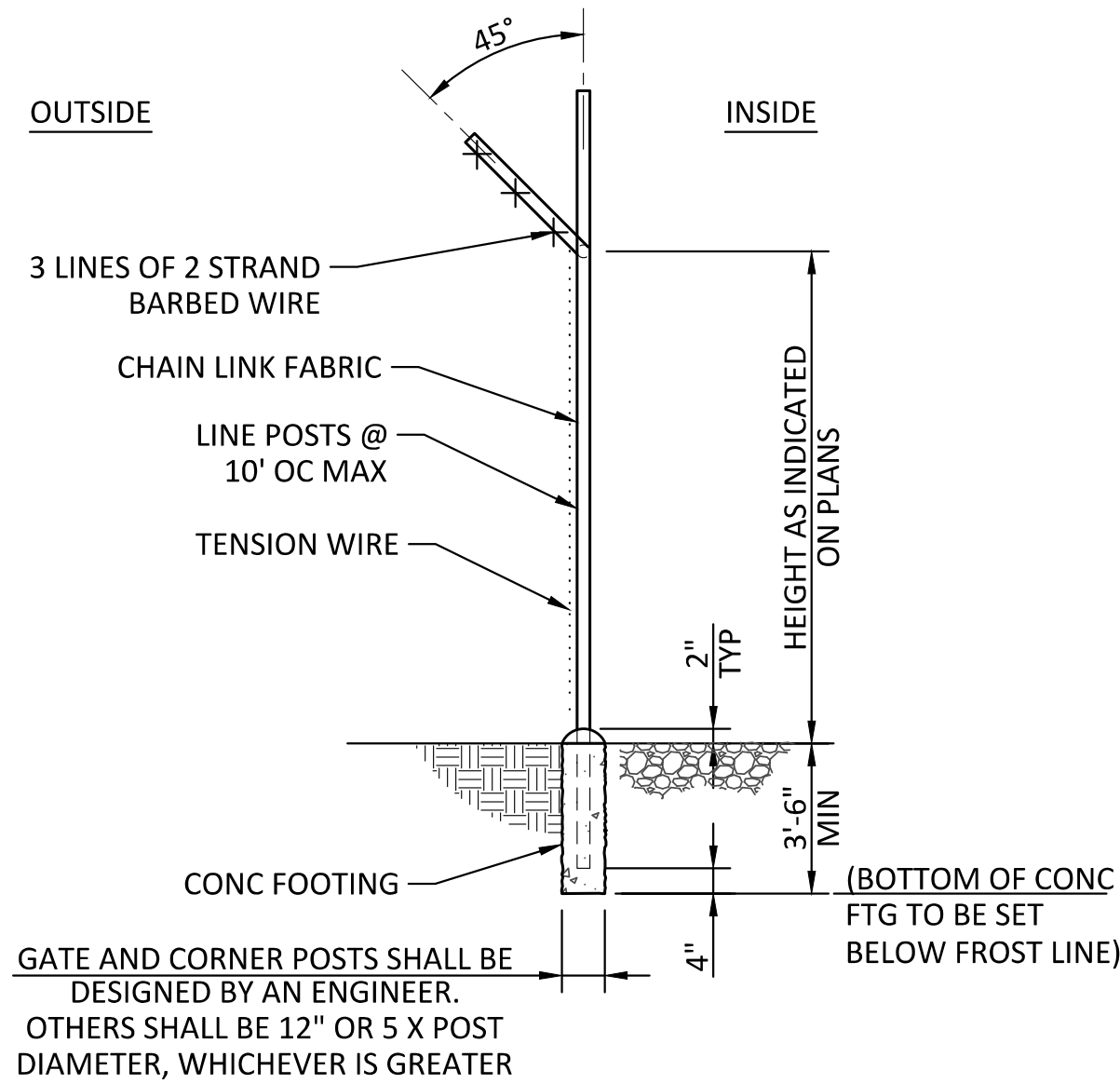
1/2

1

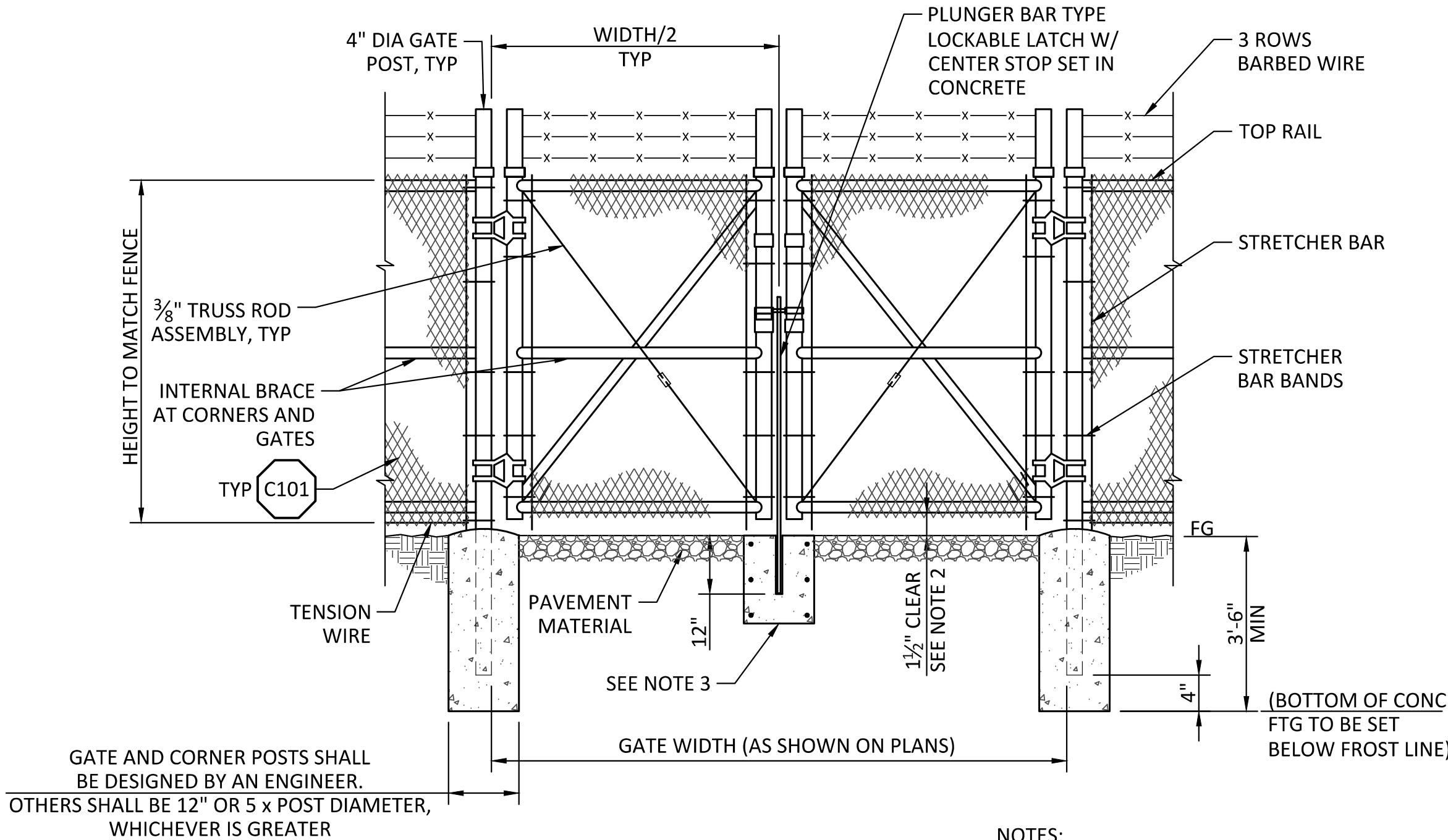
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KLAMATH RIVER RENEWAL CORPORATION		DESIGNED <u>A. LEMAN</u>	DRAWING GC001
FALL CREEK FISH HATCHERY		DRAWN <u>J. LAHMON</u>	
CIVIL GENERAL NOTES		CHECKED <u>V. AUTIER</u>	
		PROJECT DATE <u>10/28/20</u>	



- NOTES:
- SEE SPECIFICATIONS FOR FENCE MATERIAL, COATINGS, AND INSTALLATION REQUIREMENTS.
 - EXTENSION ARM MAY BE TURNED IN AT OPTION OF OWNER.



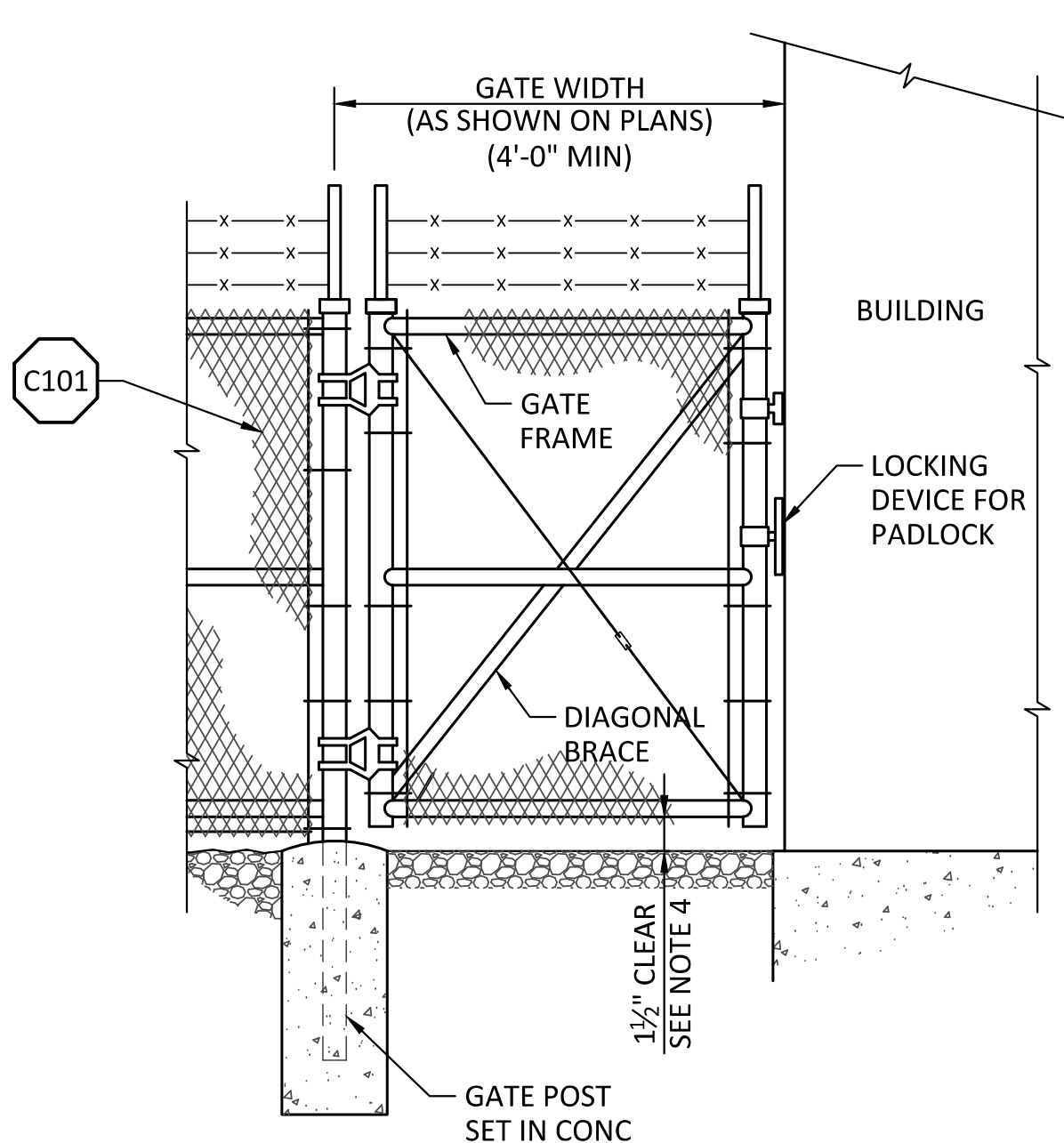
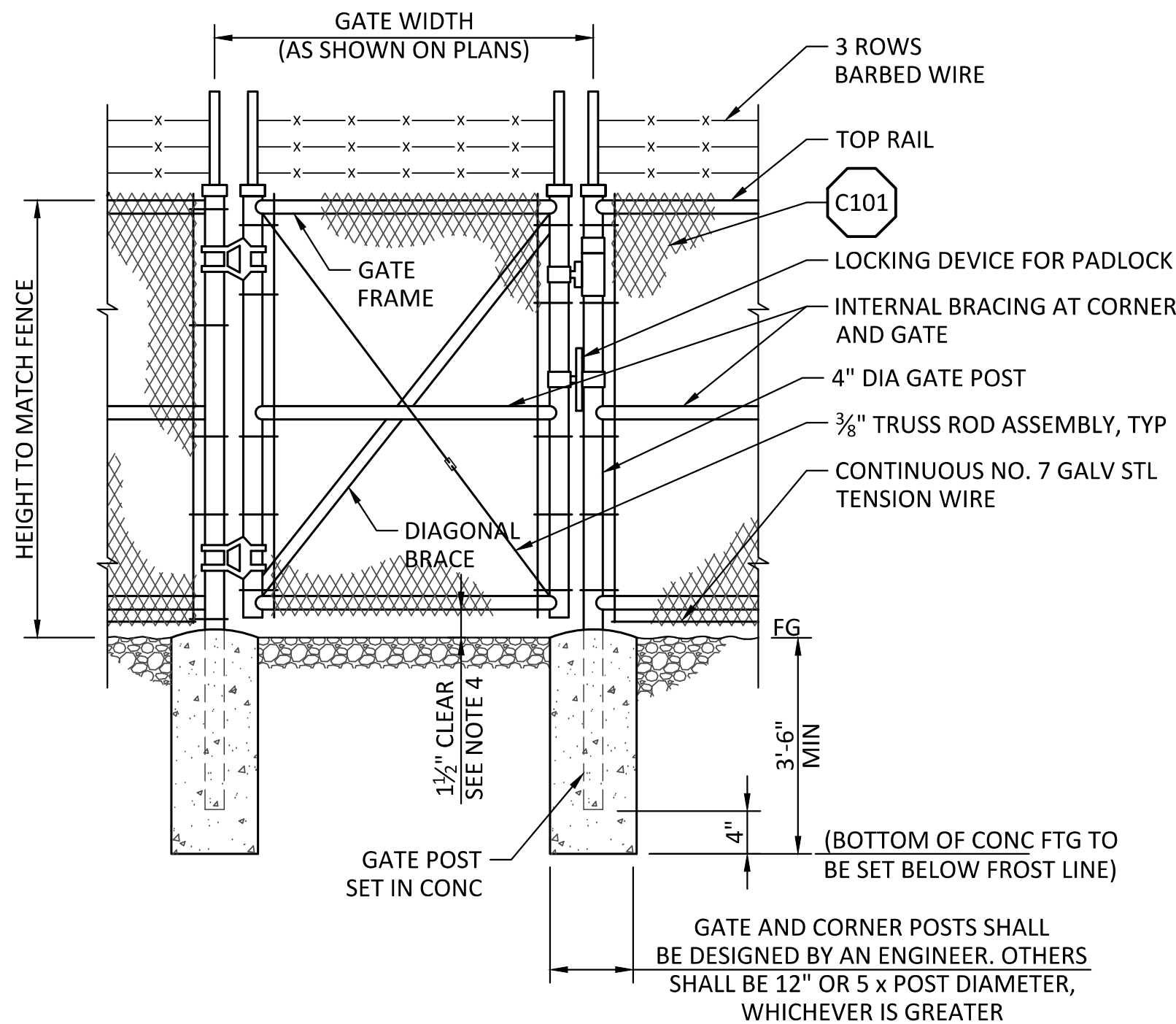
- NOTES:
- SEE SPECIFICATIONS FOR FENCE MATERIAL, COATINGS, AND INSTALLATION REQUIREMENTS.
 - SEE SPECIFICATIONS FOR CLEARANCES IN SNOW REGIONS.
 - 12" DIAMETER x 18" DEEP CONCRETE STOP W/ 20 GA STEEL PLUNGER SLEEVE, DIA = ROD O.D. + 1/2".

CHAIN LINK FENCE

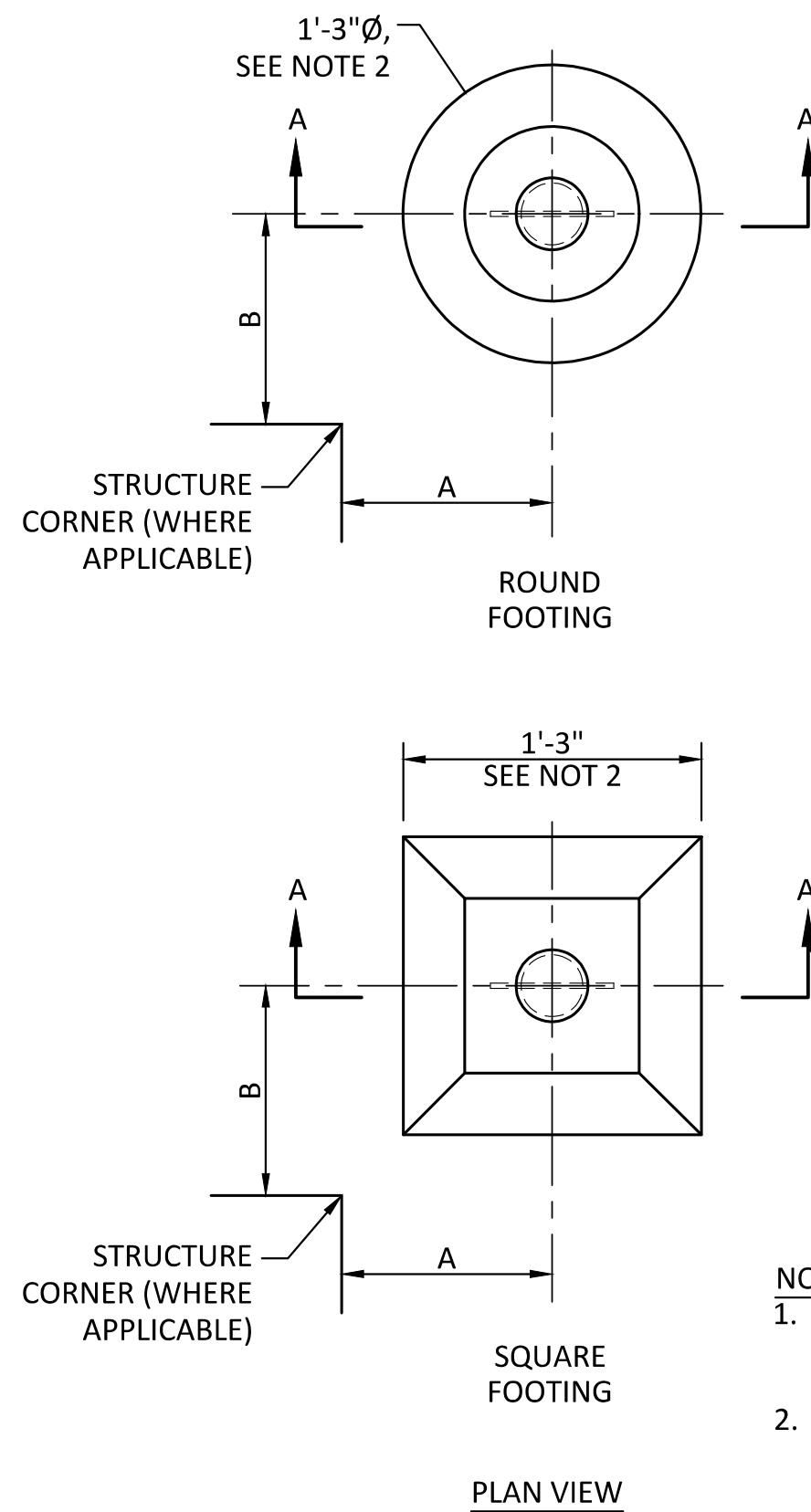
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DOUBLE LEAF GATE

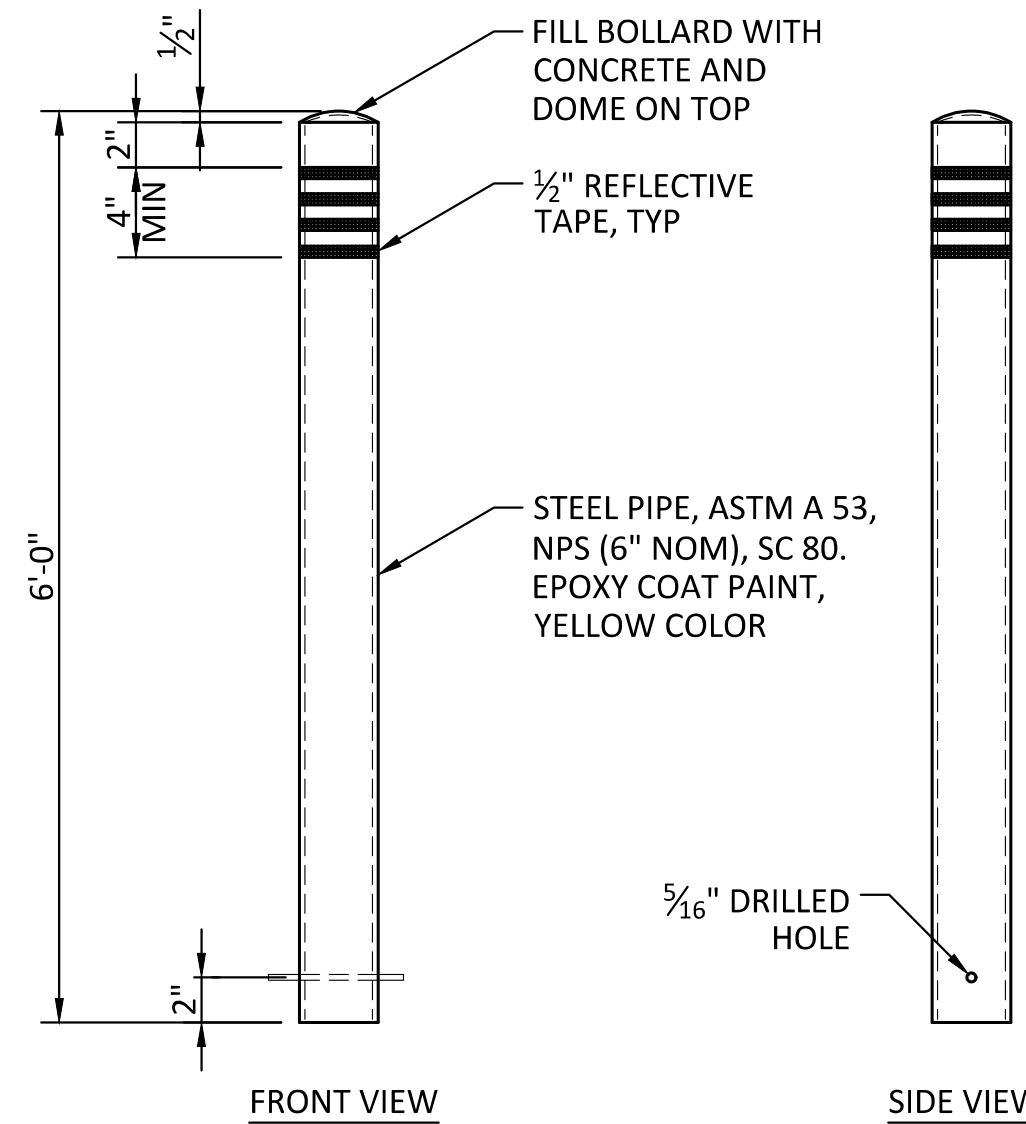
SCALE: NTS



- NOTES:
- SEE SPECS FOR FENCE MATERIAL, COATINGS, AND INSTALLATION REQUIREMENTS.
 - GATE TO BE INSTALLED WITH KEEPER TO SECURE IN OPEN POSITION.
 - GATES LESS THAN 8'-0" IN WIDTH SHALL BE SINGLE LEAF.
 - SEE SPECIFICATIONS FOR CLEARANCES IN SNOW REGIONS.



- NOTES:
- WHERE BOLLARDS OCCUR AT ON-GRADE SLAB, REDUCE FOOTING DEPTH TO 2'-1" AND PLACE FOOTING MONOLITHICALLY WITH AND FLUSH TO THE ON-GRADE SLAB.
 - WHERE FOOTING DEPTH CANNOT BE ACHIEVED DUE TO PRESENCE OF BUILDING FOUNDATIONS, REDUCE BOLLARD FOOTING DEPTH TO 2'-1" AND INCREASE WIDTH OR DIAMETER TO 1'-6" MINIMUM.



LOCATION	A	B
COHO BUILDING (CORNERS)	12"	12"
CHINOOK INCUBATION BUILDING (CORNERS)	12"	12"
SPAWNING BUILDING (CORNERS)	30"	30"
OTHERS	PER PLANS	PER PLANS

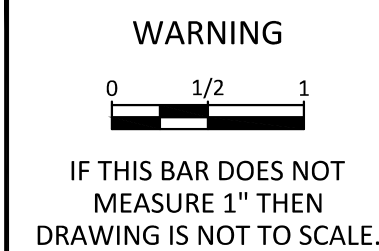
SINGLE LEAF PEDESTRIAN GATE

SCALE: NTS

NON-REMOVABLE BOLLARD

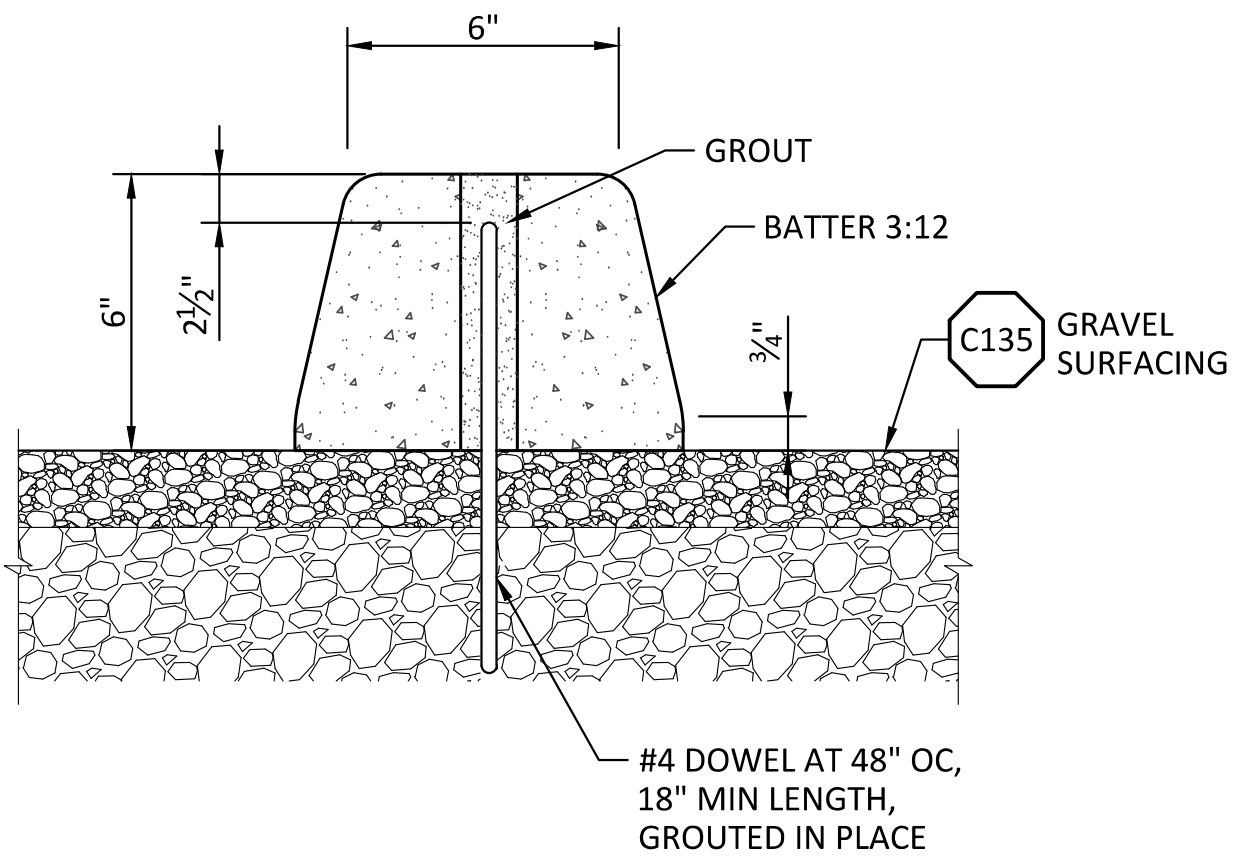
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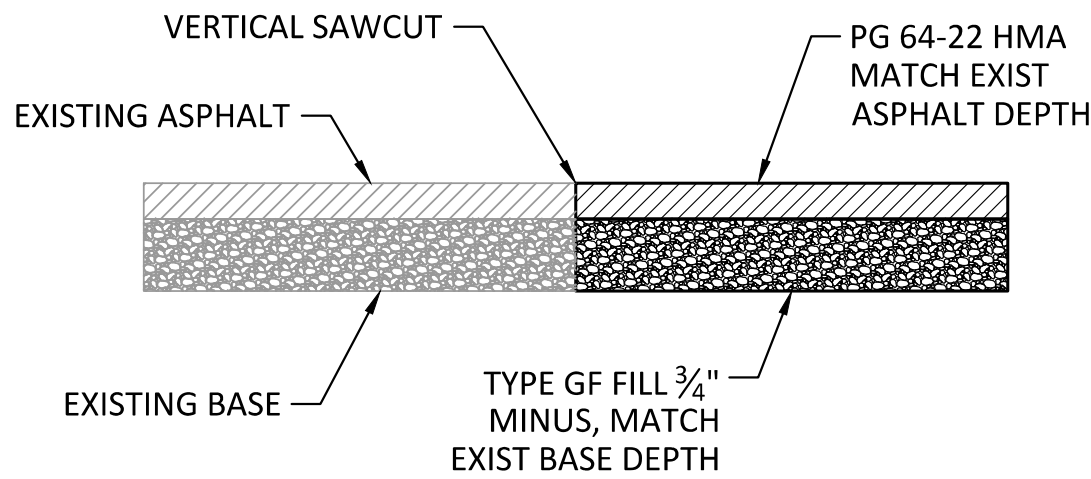


KLAMATH RIVER RENEWAL CORPORATION		DESIGNED	A. LEMAN	DRAWING
FALL CREEK FISH HATCHERY		DRAWN	J. LAHMON	
CIVIL STANDARD DETAILS 1		CHECKED	V. AUTIER	
		PROJECT DATE	10/28/20	

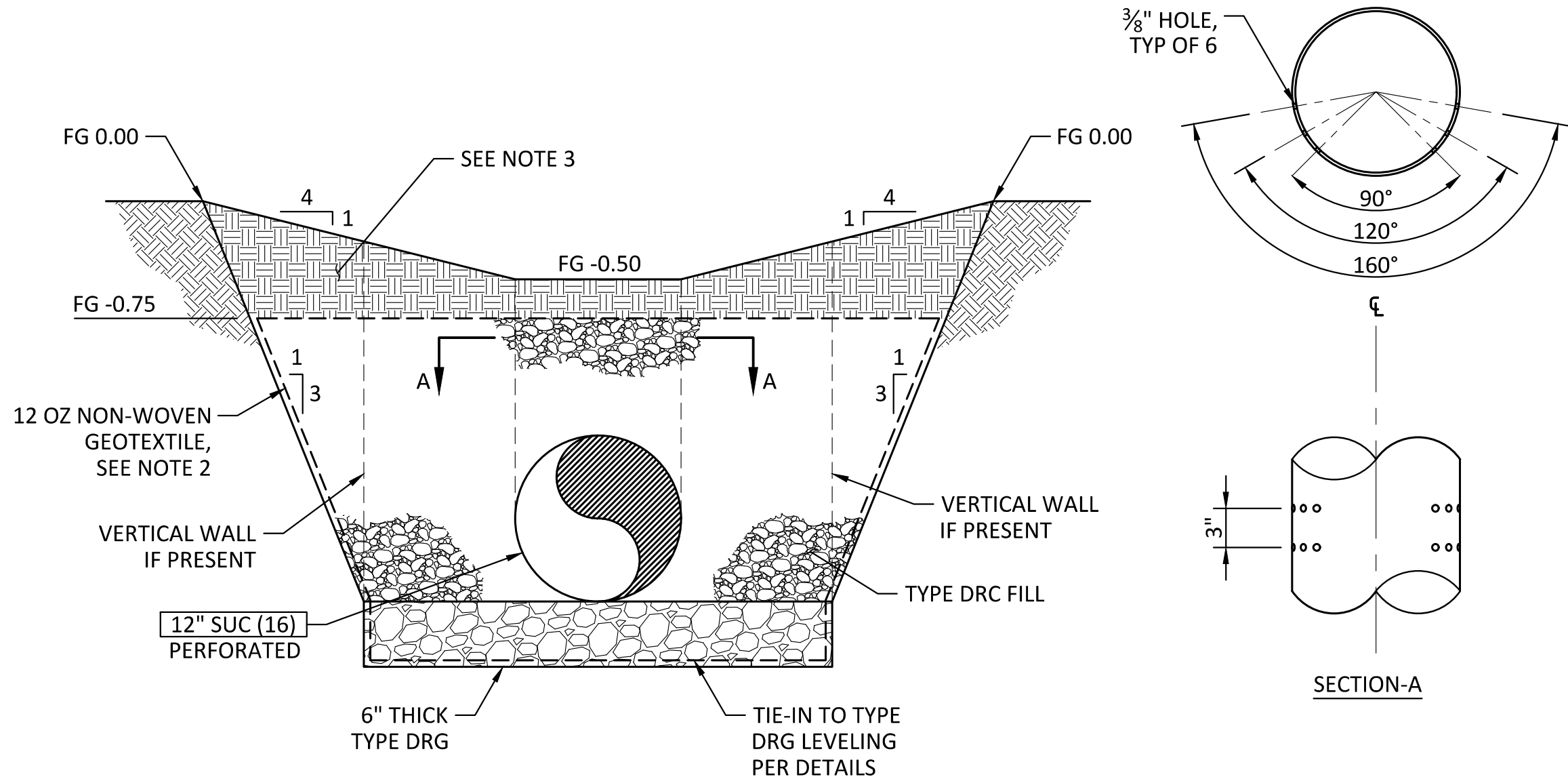
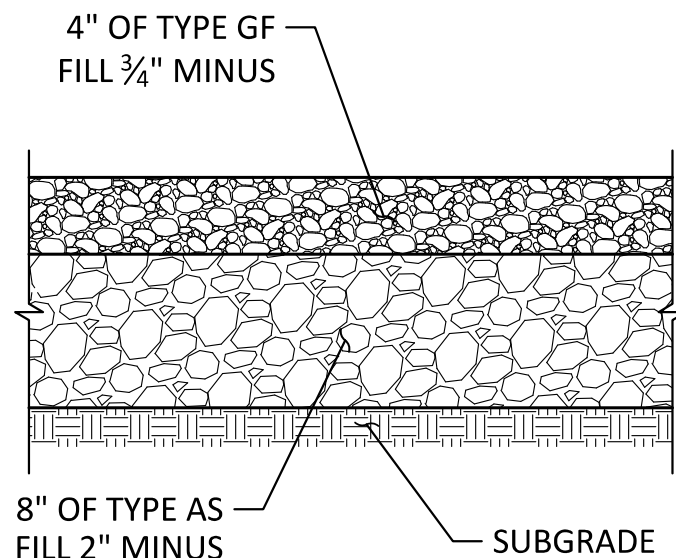
GC002



- NOTES:
1. WHEEL STOP SHALL BE CONSTRUCTED OF PORTLAND CEMENT CONCRETE.
 2. ALL EXPOSED CORNERS ON WHEEL STOP TO BE ROUNDED WITH A 1/2" RADIUS.
 3. PRECAST WHEEL STOP SHALL BE 5'-0" LONG UNLESS INDICATED OTHERWISE.



- NOTES:
1. AFTER ASPHALT REPLACEMENT, RESTORE LANE STRIPING, AS REQUIRED, WITH PAVEMENT MARKING PAINT PER SPECIFICATION 32 11 13.



- NOTES:
1. PIPE PERFORATIONS TO BE ACCORDING TO AASHTO M278/ASTM F758 PATTERN WITH 3/8" HOLES AT A SPACING OF 3" (+/- 1/4").
 2. OVERLAP GEOTEXTILE 12" MIN AT SEAM. SEE SPEC 31 05 19 FOR DETAILS.
 3. UNLESS NOTED OTHERWISE, PROVIDE TYPE T TOPSOIL PER SPECIFICATION 31 00 00 AND REVEGETATE AT PROJECT COMPLETION.

PRECAST WHEEL STOP

SCALE: NTS



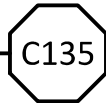
ASPHALT REPAIR

SCALE: NTS



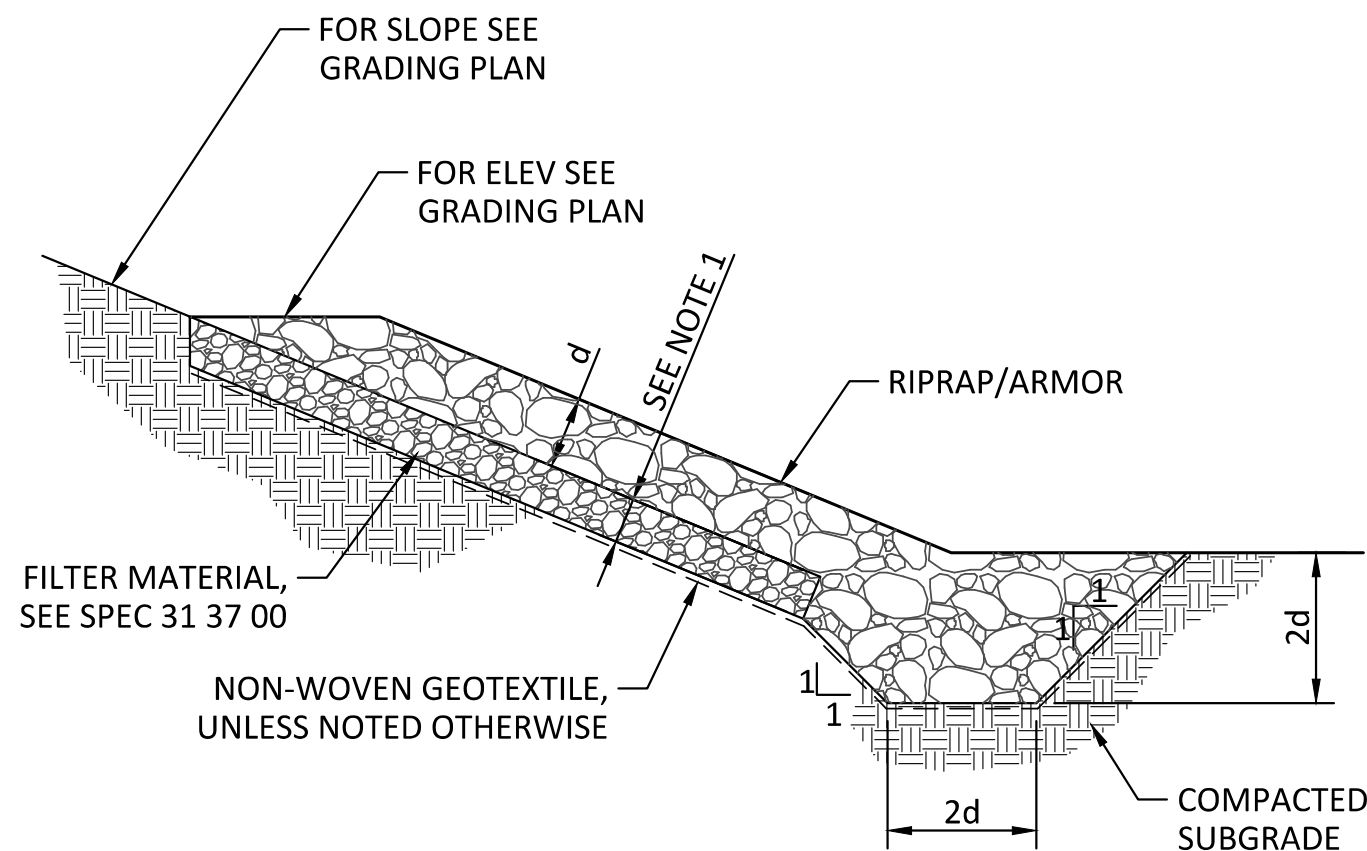
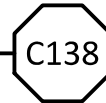
GRAVEL SURFACING

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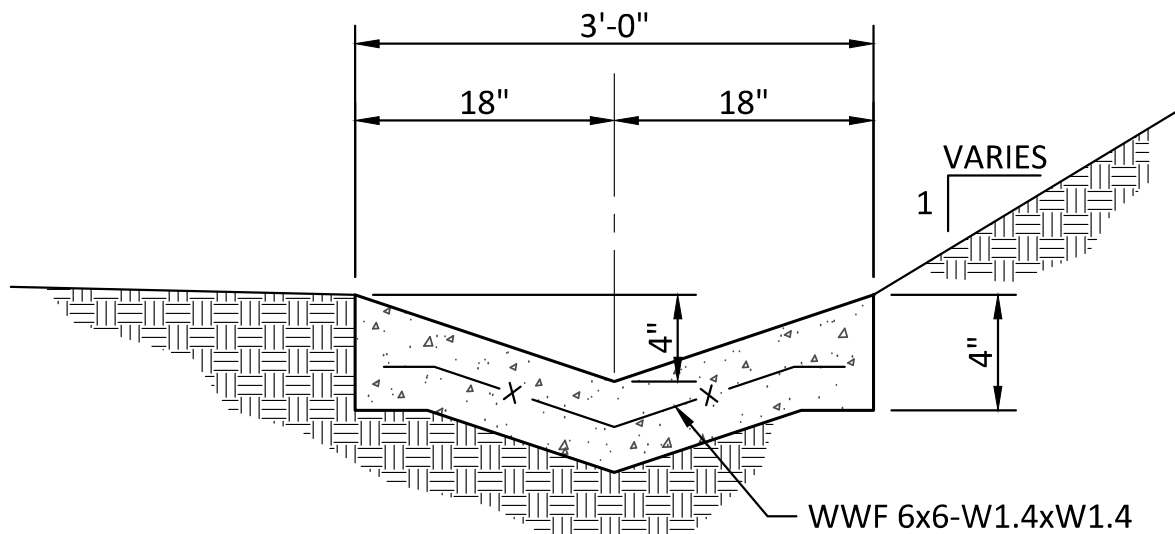


FRENCH DRAIN

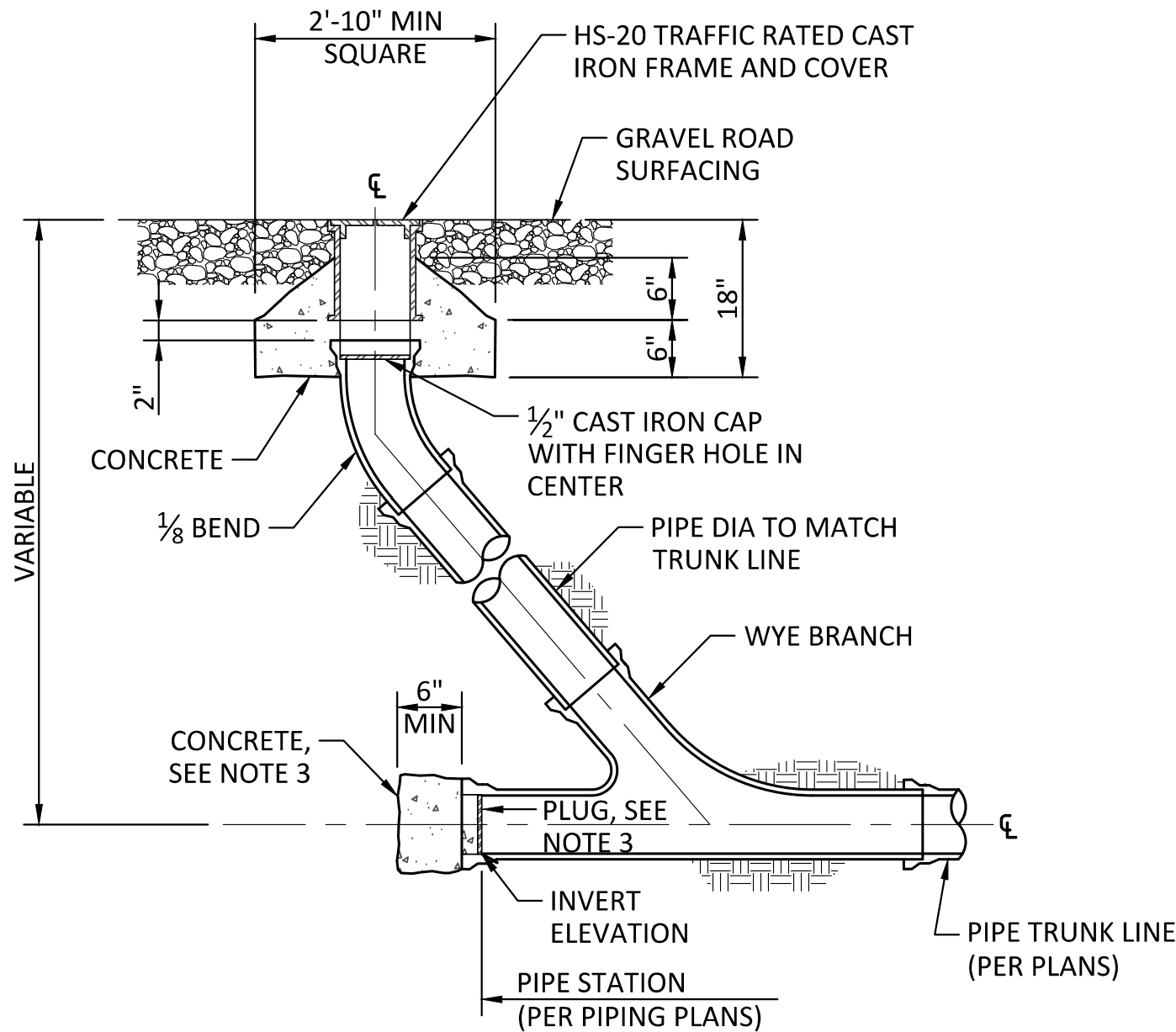
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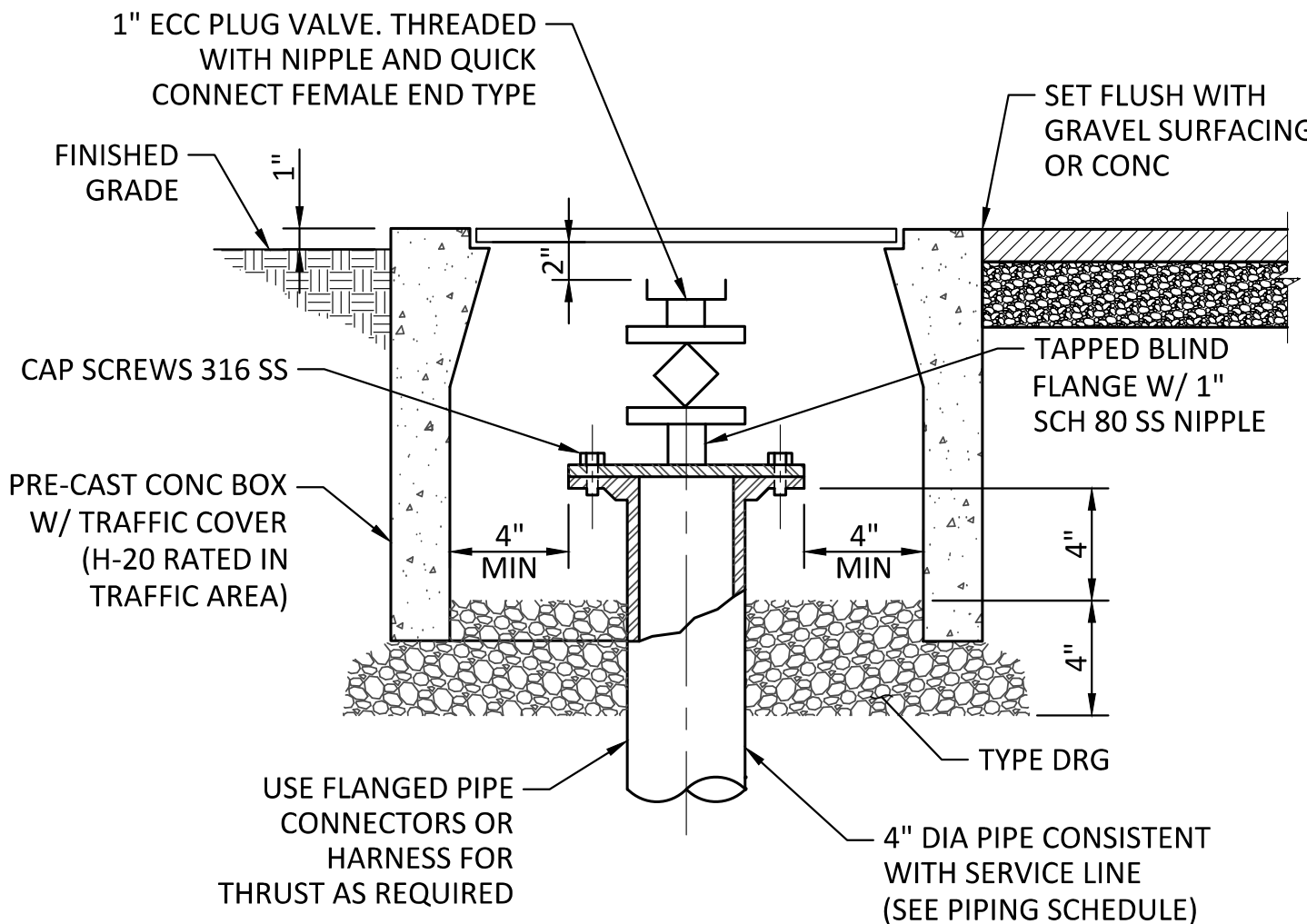
- NOTES:
1. RIPRAP LAYER THICKNESS, d, TO BE THE LARGER OF (A) 2X THE MEDIAN ROCK DIAMETER AND (B) THE MAX ROCK DIAMETER. FILTER MATERIAL TO BE 12" FOR TYPE 1 FILTER MATERIAL, AND 6" FOR TYPE 2 FILTER MATERIAL, SEE SPEC 31 37 00.
 2. FOR RIPRAP ARMOR AND BEDDING SIZE, SEE INDICATED RIPRAP TYPE ON PLANS AND DEFINITIONS IN SPEC 31 37 00.



- NOTES:
1. EXPANSION JOINTS OF 1/2" BITUMINOUS MATERIAL SHALL BE PLACED AT 50-FEET SPACING AND WHERE SWALE BUTTS OTHER CONCRETE STRUCTURES.
 2. CONCRETE LINED SWALE TO BE PLACED ON 6" THICK COMPACTED TYPE SF FILL PER SECTIONS. SEE SPECIFICATION 31 00 00 FOR COMPACTION.



- NOTES:
1. IF IN UNIMPROVED AREA TOP SHALL BE 6" ABOVE GRADE.
 2. SEE PLAN FOR STATION AND INVERT ELEVATION. PIPE AND FITTINGS SHALL BE OF THE SAME MATERIAL AS THE MAIN DRAIN LINE.
 3. PROVIDE CONC AND PIPE PLUG ONLY WHEN THE COTG IS LOCATED AT THE UPSTREAM END OF A PIPELINE. ELSE PIPELINE CONTINUES IN BOTH DIRECTIONS.



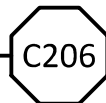
RIPRAP & ARMOR PROTECTION

SCALE: NTS



CONCRETE LINED SWALE

SCALE: NTS



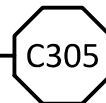
CLEANOUT TO GRADE (COTG)

SCALE: NTS

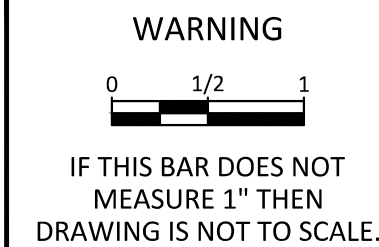


PRESSURIZED SYSTEM CLEANOUT TO GRADE (PCOTG)

SCALE: NTS

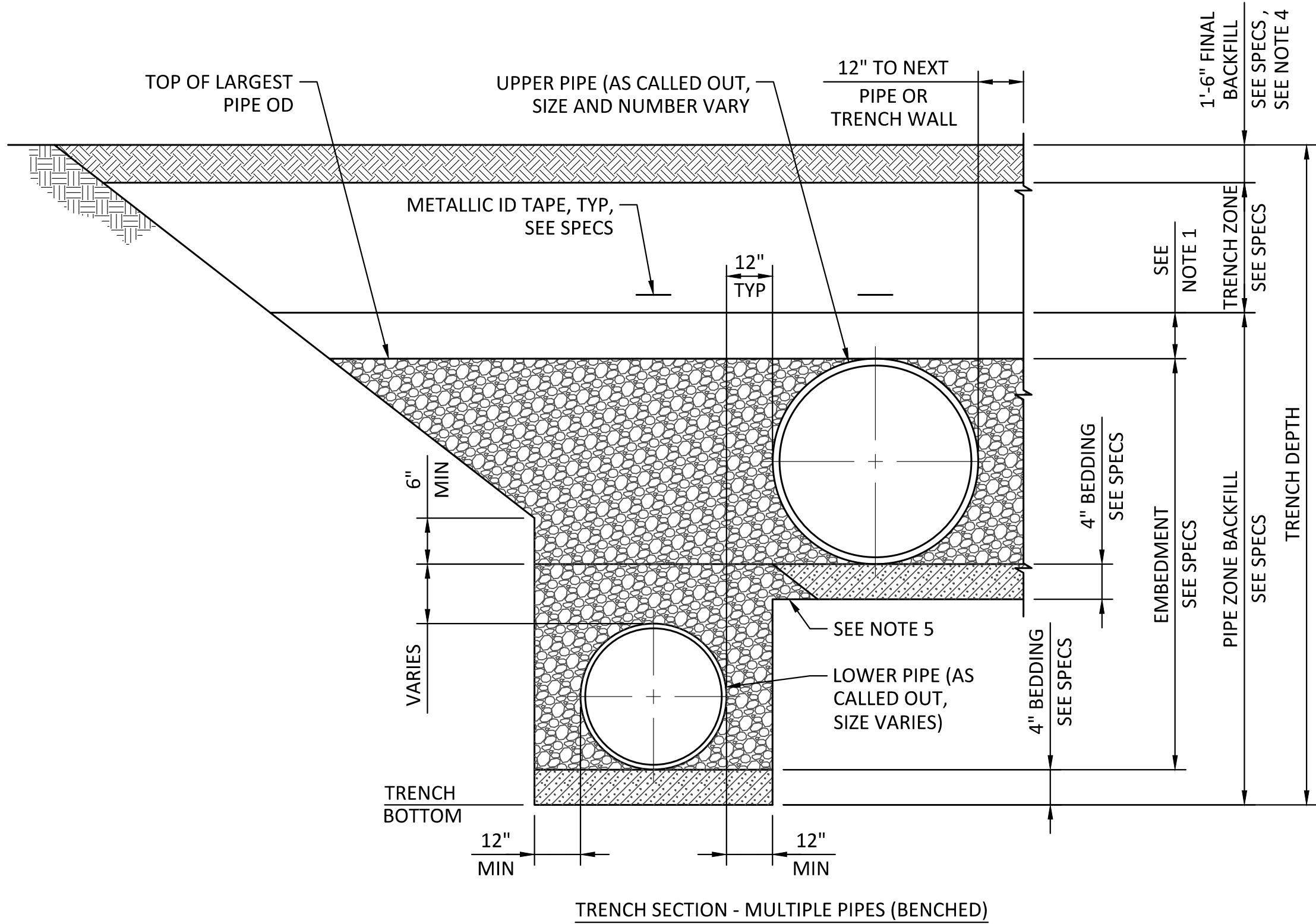
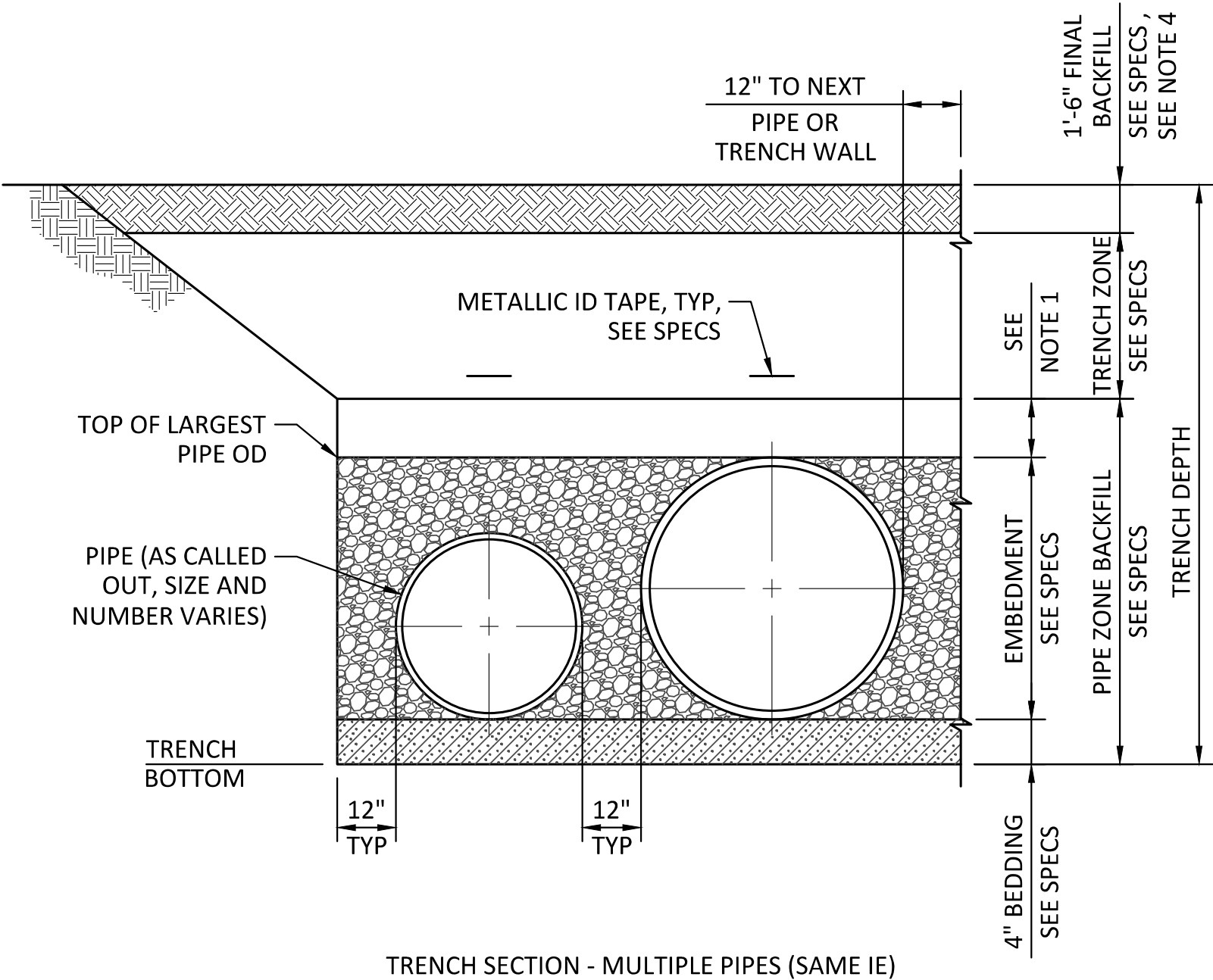
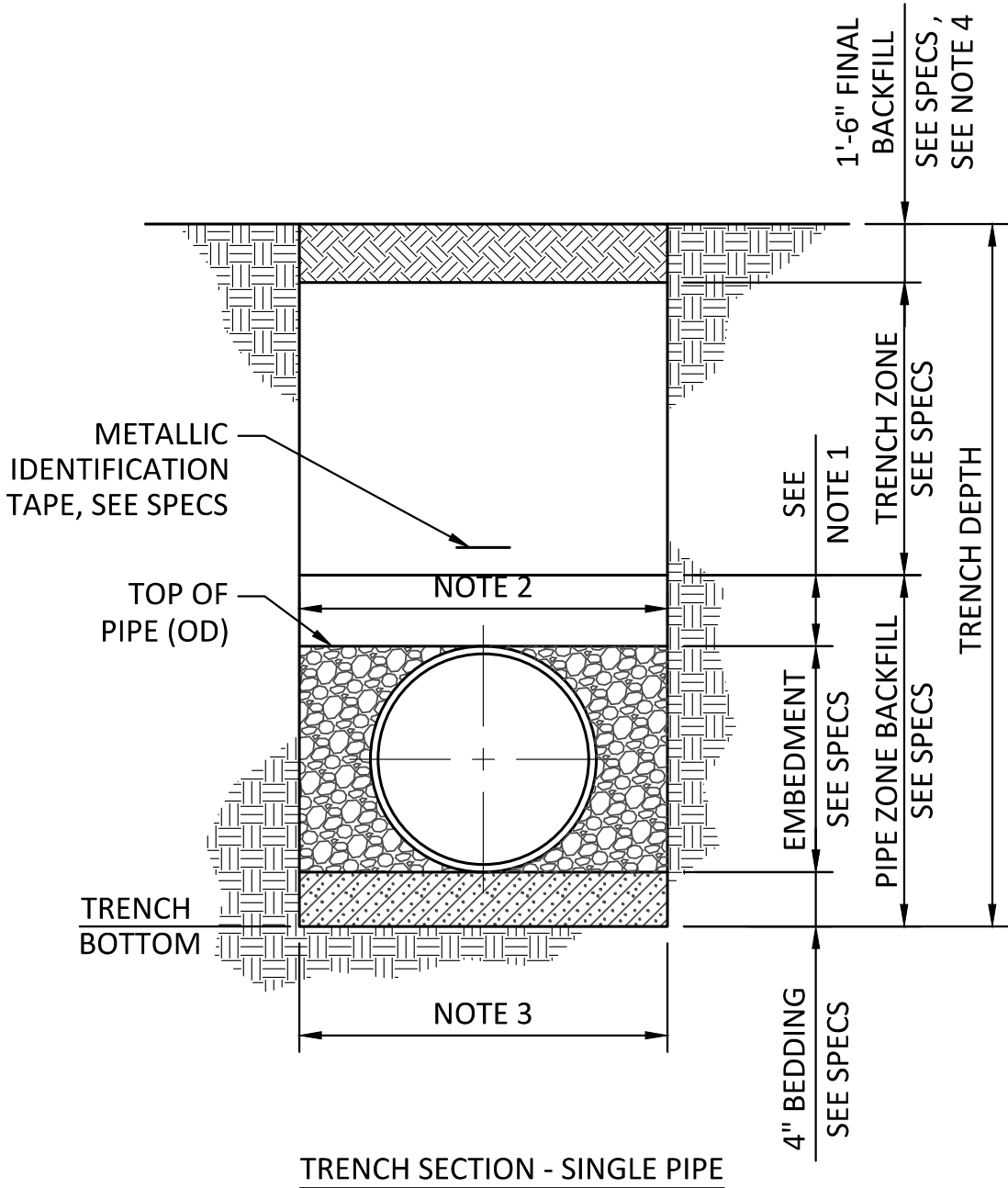


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KLAMATH RIVER RENEWAL CORPORATION		DESIGNED <u>A. LEMAN</u>	DRAWING GC003
FALL CREEK FISH HATCHERY		DRAWN <u>J. LAHMON</u>	
CIVIL STANDARD DETAILS 2		CHECKED <u>V. AUTIER</u>	
		PROJECT DATE <u>10/28/20</u>	

- A. FLEXIBLE PIPE REFERS TO ALL STEEL, DUCTILE-IRON, AND PLASTIC PIPES.
- B. TYPICAL TRENCH SECTIONS ARE TO BE USED ONLY WHERE STABLE, COMPACT SOIL CONDITIONS EXIST. IF BOULDERS OR LARGE OBSTRUCTIONS ARE ENCOUNTERED, TRENCH SECTIONS MAY BE DEEPER OR WIDER THAN SHOWN. THE ENGINEER SHALL BE ADVISED SHOULD THIS OCCUR.
- C. THE NEED FOR PROTECTIVE SYSTEMS AND EXCAVATION SLOPES SHALL BE DETERMINED CONSIDERING APPLICABLE LOCAL, STATE AND FEDERAL (OSHA) SAFETY STANDARDS AND REGULATIONS, AND GEOTECHNICAL CONSULTANTS' RECOMMENDATIONS.
- D. PROTECTIVE SYSTEMS SHALL BE DESIGNED AND BUILT IN ACCORDANCE WITH THE APPLICABLE LOCAL, STATE AND FEDERAL (OSHA) SAFETY STANDARDS AND REGULATIONS.
- E. SUPPORTING DOCUMENTATION SHALL BE SUBMITTED TO THE ENGINEER REGARDING PIPE DESIGN AND COMPLIANCE WITH APPLICABLE LOCAL, STATE AND FEDERAL (OSHA) SAFETY STANDARDS.
- F. UNSUPPORTED VERTICAL AND/OR SLOPING TRENCH WALL SLOPES SHALL NOT BE STEEPER THAN ALLOWED BY APPLICABLE LOCAL, STATE AND FEDERAL (OSHA) SAFETY STANDARDS AND REGULATIONS, UNLESS SUPPORTING DOCUMENTATION IS SUBMITTED, ACCORDING TO AFOREMENTIONED SAFETY STANDARDS.
- G. TRENCH SECTIONS OTHER THAN THE TYPICAL SECTIONS SHOWN MAY BE UTILIZED PROVIDED THEY COMPLY WITH APPLICABLE LOCAL, STATE AND FEDERAL (OSHA) SAFETY STANDARDS AND REGULATIONS. DOCUMENTATION SUPPORTING THIS COMPLIANCE AND PIPE DESIGN CALCULATIONS SHALL BE SUBMITTED TO THE ENGINEER.
- H. IF OVER-EXCAVATION DUE TO POOR FOUNDATION MATERIAL IS ORDERED BY THE ENGINEER, THE BACKFILL MATERIAL SHALL BE ACCORDING TO EARTHWORK SPECIFICATION 31 00 00.
- I. IF DURING CONSTRUCTION, THE WATER TABLE IS DISCOVERED TO BE ABOVE THE TRENCH BOTTOM, THE ENGINEER SHALL BE NOTIFIED, AND APPROPRIATE DEWATERING SHALL BE IMPLEMENTED TO LOWER THE WATER LEVEL BELOW THE TRENCH BOTTOM. THE BACKFILL MATERIAL SHALL BE ACCORDING TO THE EARTHWORK SECTIONS OF THE SPECIFICATIONS, OR AS ORDERED BY THE ENGINEER.
- J. ALL PIPE BEDDING, PIPE ZONE BACKFILL, AND TRENCH ZONE BACKFILL MATERIAL TYPES AND COMPACTION REQUIREMENTS ARE INDICATED IN SPECIFICATION 31 00 00.

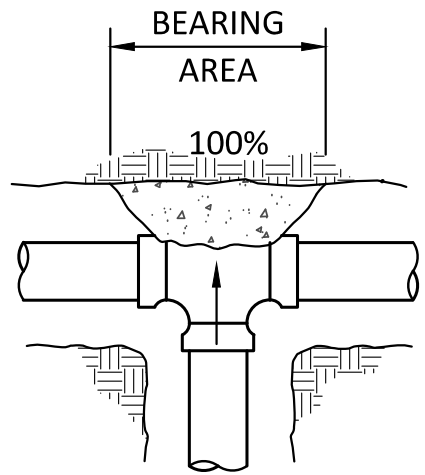


- NOTES:
1. 6" MIN FOR PIPE DIAMETER < 24" LESS THAN OR EQUAL TO 24".
 2. MAX TRENCH WIDTH @ TOP OF PIPE:
O.D. + 36" FOR 18" & LARGER PIPE O.D.
O.D. + 24" FOR LESS THAN 18" PIPE O.D.
 3. MIN TRENCH BOTTOM WIDTH =
O.D. + 24" FOR MECHANICAL COMPACTION
 4. WHERE PIPES ARE UNDER GRAVEL ROAD SURFACING OR ASPHALT REPAIR, FINAL BACKFILL SHALL BE TO 18" BELOW THE ROAD SUBGRADE. PLACE FILL PER SPECIFICATIONS AND TOP WITH ROAD SURFACING PER DETAIL C134 OR C135, PER LOCATION.
 5. CONSTRUCT LOWER PIPE TRENCH TO 12" MIN. EITHER SIDE OF LOWER PIPE AND UP TO INVERT ELEVATION OF UPPER PIPE. THEN PLACE BEDDING FOR UPPER PIPE, AND CONSTRUCT UPPER PIPE TRENCH. UPPER PIPE TRENCH BEDDING NOT TO INFRINGE UPON EMBEDMENT OF LOWER PIPE TO 12" EITHER SIDE.

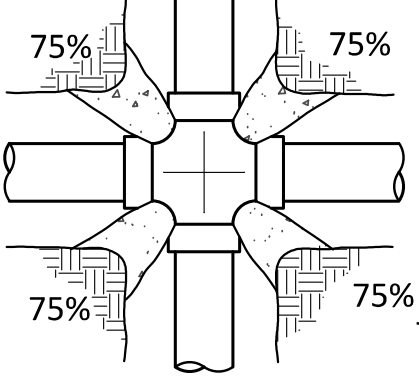
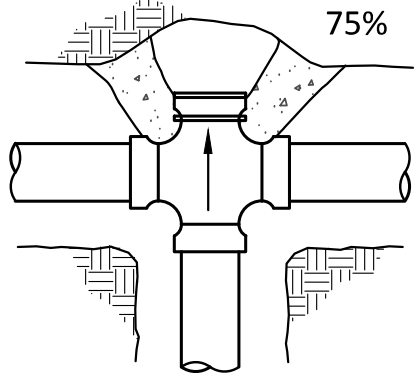
TRENCH SECTION FLEXIBLE PIPE

SCALE: NTS

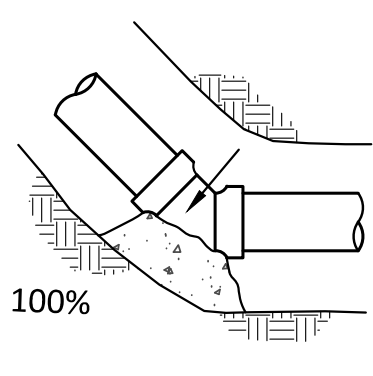
C601



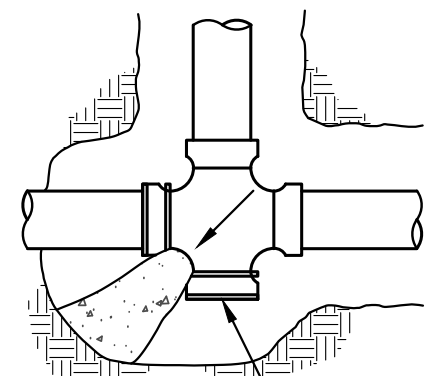
75% OF TEE, TYP



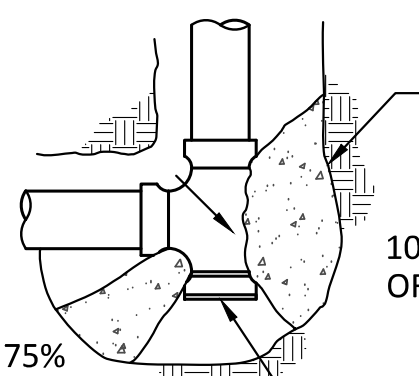
75% OF TEE, TYP



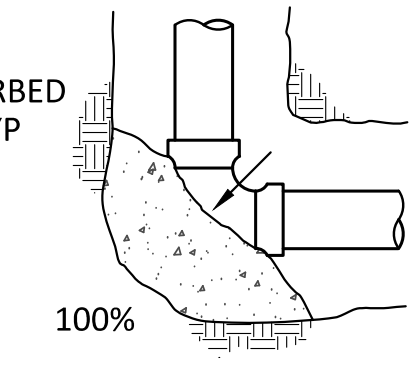
PLAN



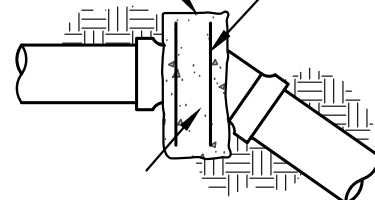
THRUST
DIRECTION



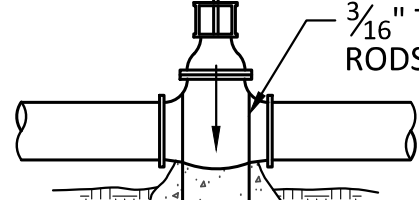
NOTE:
FIGURE (100%) AT THRUST BLOCK
INDICATES PERCENT OF TOTAL THRUST TO
BE APPLIED FOR BEARING AREA.



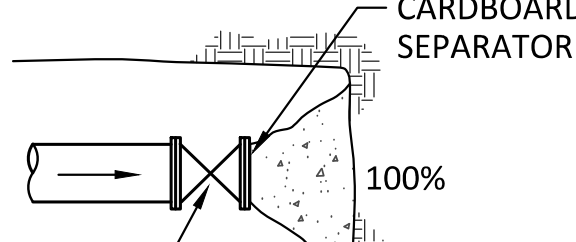
WEIGHT OF CONCRETE
TO RESIST 100% OF
TOTAL THRUST



VERTICAL BLEND



VALVE



DEAD-END

THRUST PER PSI OF WATER PRESSURE AT VARIOUS FITTINGS						
PIPE SIZE	11.25° BEND	22.5° BEND	30° BEND	45° BEND	90° BEND	DEAD END / TEE
4	3	7	9	13	24	24
6	8	15	20	29	54	54
8	13	26	35	52	95	95
10	21	41	55	81	150	150
12	29	59	78	115	213	213
14	36	71	94	139	257	257
16	47	93	123	182	337	337
18	59	118	156	231	427	427
20	73	146	194	286	529	529
24	106	211	280	414	764	764

EXAMPLE:
8-INCH 90° ELBOW, PRESSURE = 200 PSI
FROM TABLE: THRUST = 95x200 = 19,000 LB
ASSUME BEARING STRENGTH OF SOIL = 2000 PSF
 $\frac{19,000}{2000} = 9.5$ SQ. FT. = BEARING AREA REQUIRED
FOR THRUST BLOCK

- NOTES:
1. IN USING THE ABOVE TABLES, USE THE MAXIMUM INTERNAL PRESSURE ANTICIPATED (i.e. HYDROSTATIC TEST PRESSURE).
 2. SEE SOILS REPORT FOR BEARING STRENGTH OF SOIL IN THE ABSENCE OF A SOILS REPORT AN AVERAGE SOIL (SPADABLE MEDIUM CLAY) CAN BE ASSUMED TO HAVE A BEARING STRENGTH OF 2000 PSF.
 3. USE LIGHTWEIGHT CONCRETE FOR HILL THRUST BLOCK. CONCRETE FOR THRUST BLOCKS TO BE 2000 PSI.
 4. THRUST BLOCKS SHALL BE PLACED ON ALL PRESSURE PIPE BENDS AND TEES. PRESSURE PIPES INCLUDE ALL SUPPLY LINES, AND A PORTION OF THE DRAIN LINE, SO INDICATED ON THE PLANS.

CONCRETE THRUST BLOCKS

SCALE: NTS

C605

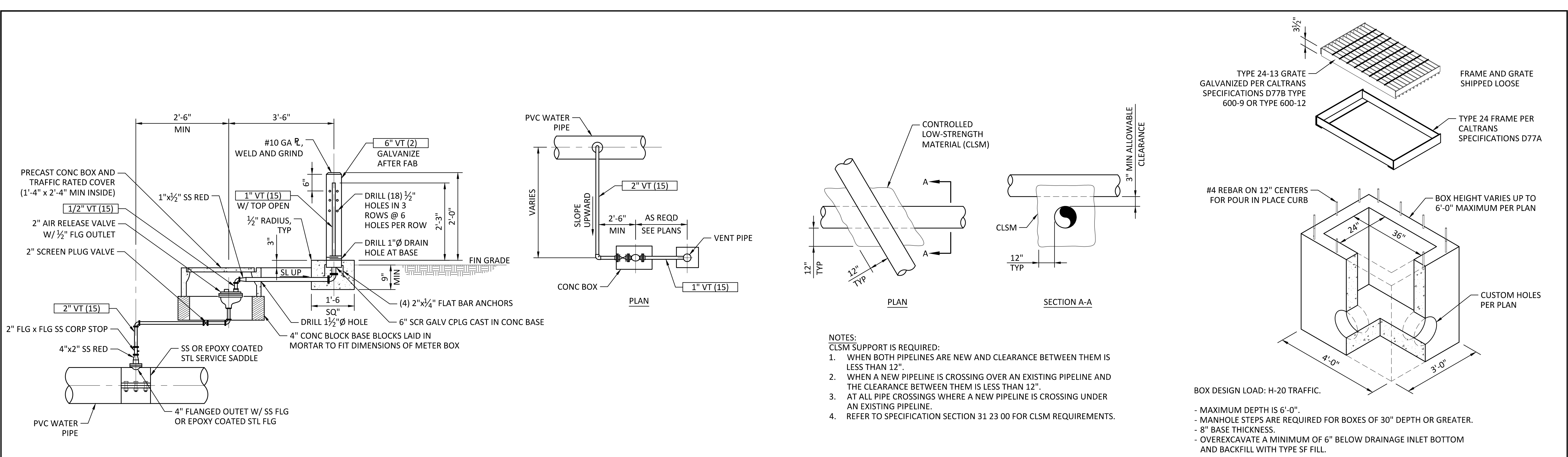
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WARNING
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IF THIS BAR DOES NOT
MEASURE 1" THEN
DRAWING IS NOT TO SCALE.

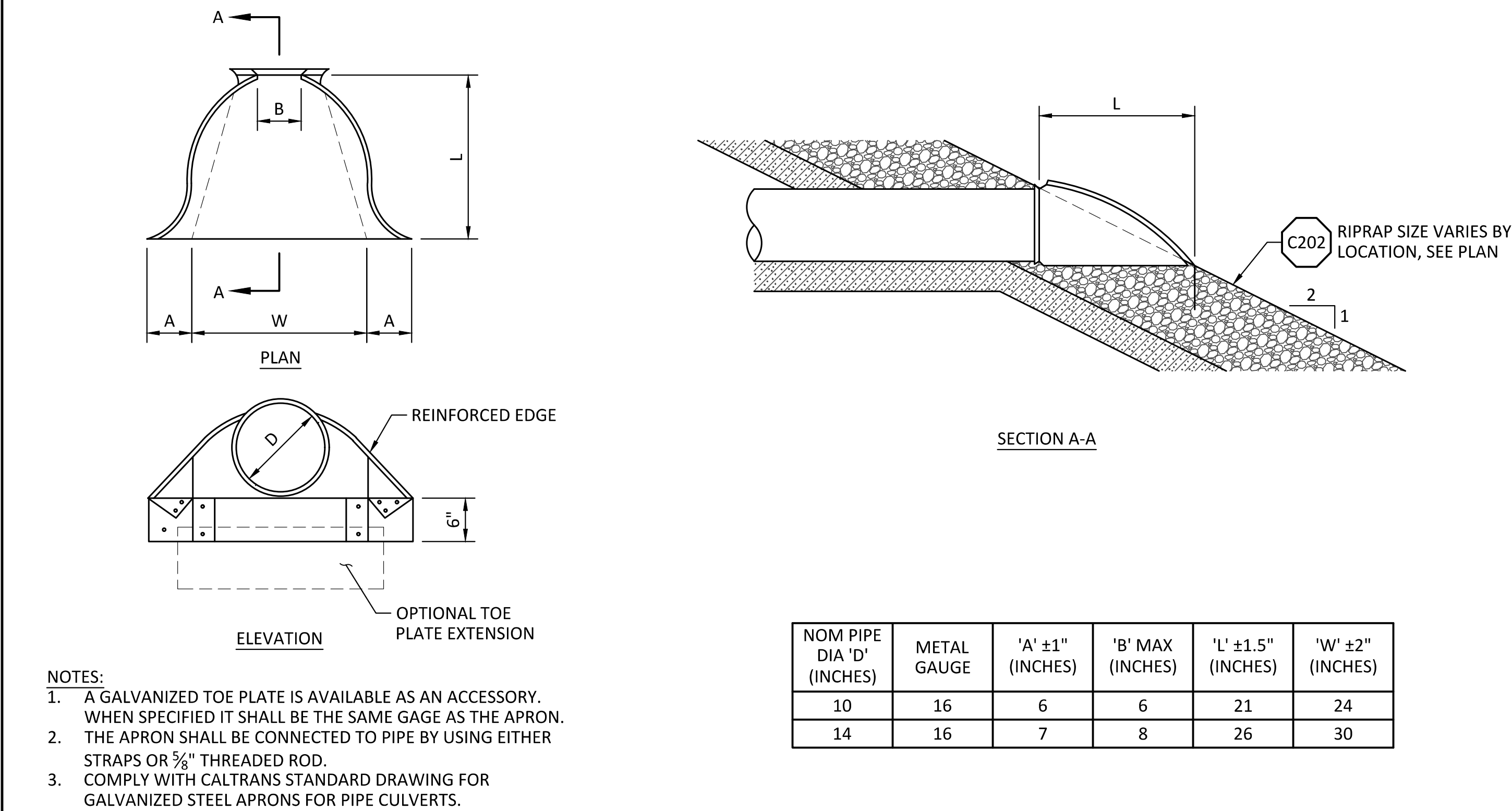


KLAMATH RIVER RENEWAL CORPORATION		DESIGNED	A. LEMAN	DRAWING GC004
FALL CREEK FISH HATCHERY		DRAWN	J. LAHMON	
CIVIL STANDARD DETAILS 3		CHECKED	V. AUTIER	
		PROJECT DATE	10/28/20	



2" AIR RELEASE VALVE (ARV) ASSEMBLY

SCALE: NTS

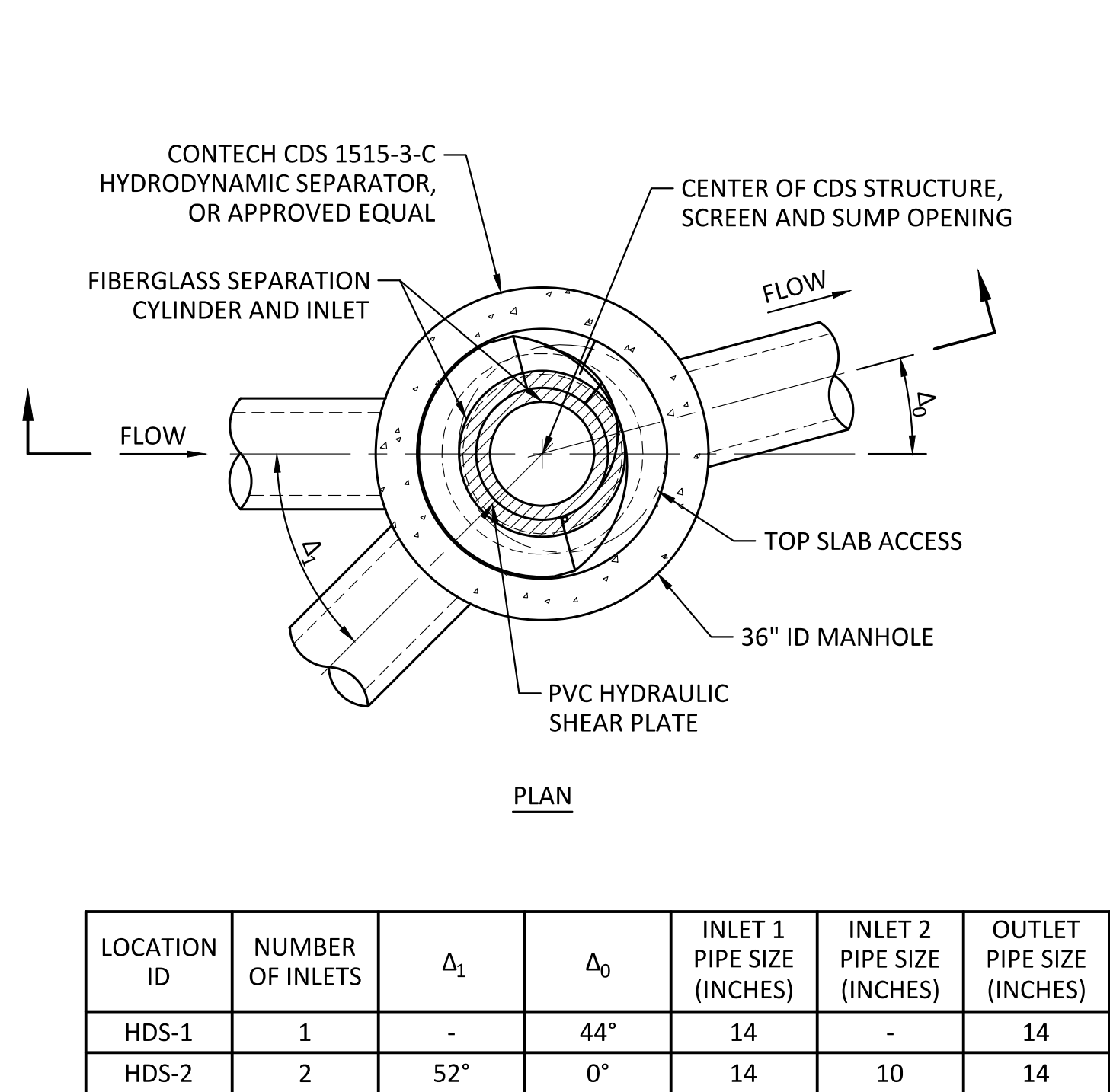


STORM DRAIN OUTFALL

SCALE: NTS

TYPICAL PIPE CROSSING

SCALE: NTS

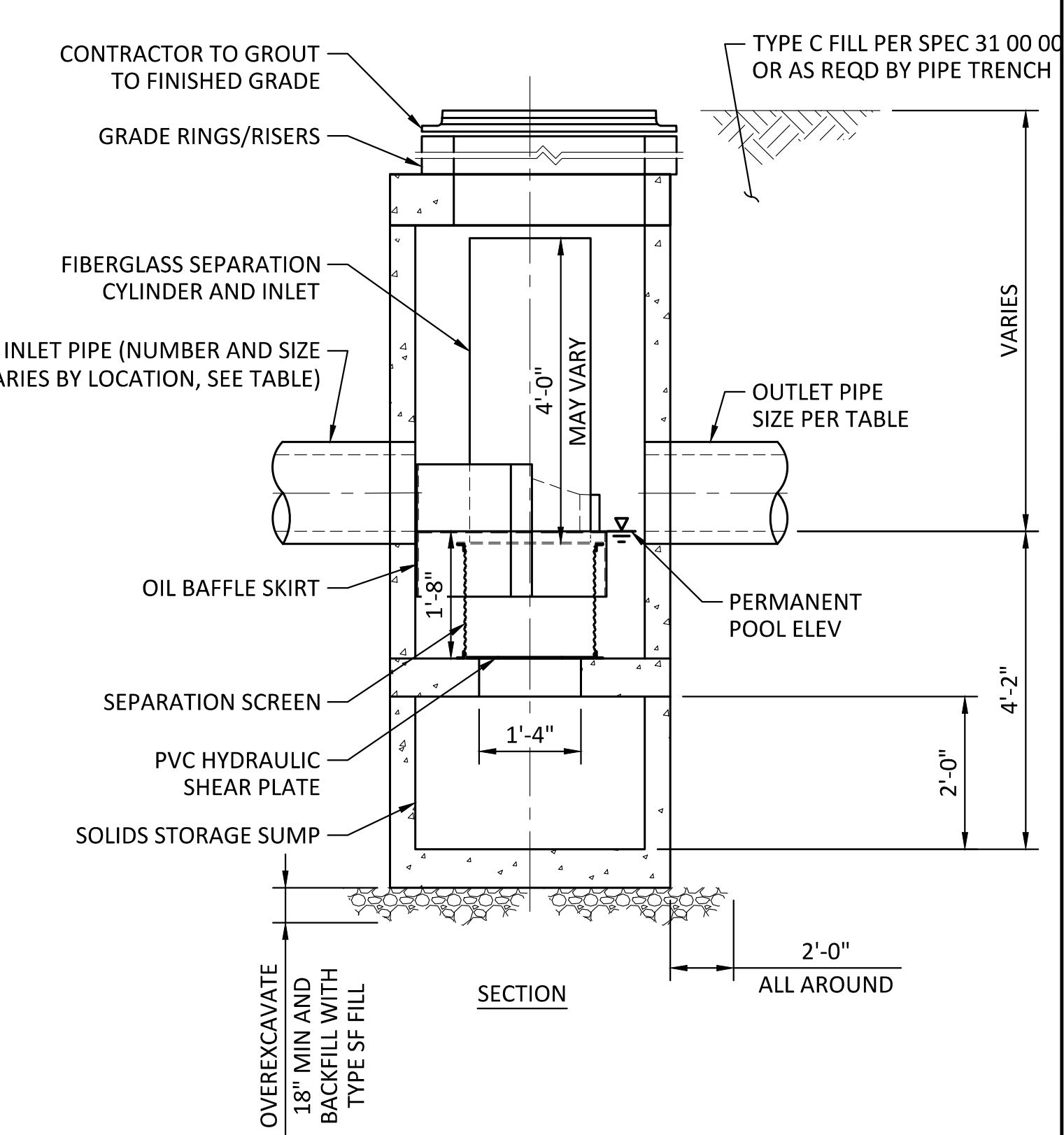


STORM SEWER HYDRODYNAMIC SEPARATOR

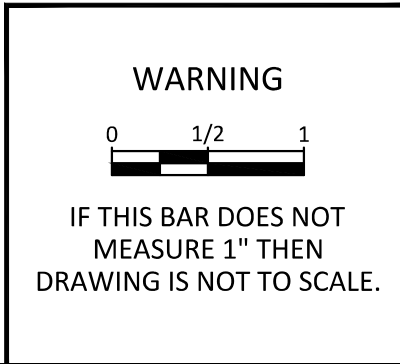
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CALTRANS TYPE G3 DRAINAGE INLET

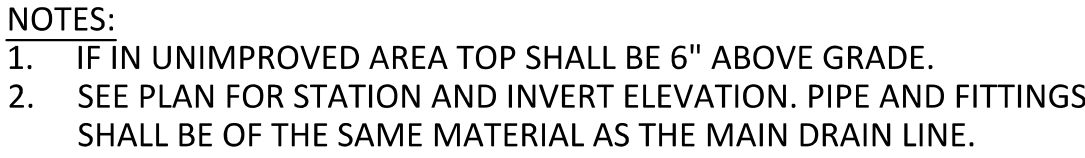
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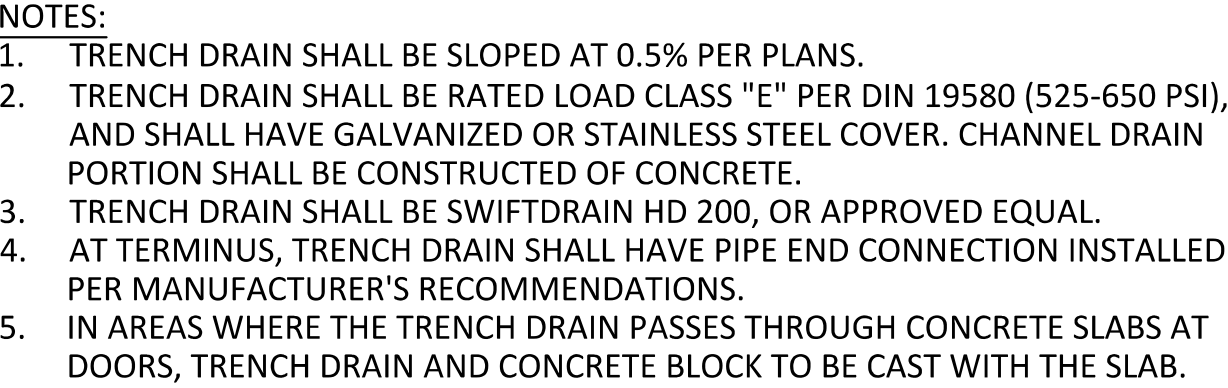
0	10/28/20	MDM	ISSUED FOR CONSTRUCTION	
REV	DATE	BY	DESCRIPTION	



KLAMATH RIVER RENEWAL CORPORATION		DESIGNED	A. LEMAN	DRAWING GC005
FALL CREEK FISH HATCHERY		DRAWN	J. LAHMON	
CIVIL STANDARD DETAILS 4		CHECKED	V. AUTIER	
		PROJECT DATE	10/28/20	

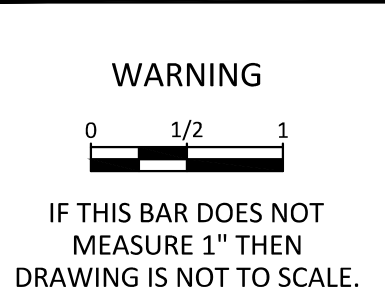


SCALE: NTS



SCALE: NTS

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



KLAMATH RIVER RENEWAL CORPORATION	DESIGNED <u>A. LEMAN</u>	DRAWING GC006
FALL CREEK FISH HATCHERY	DRAWN <u>J. LAHMON</u>	
CIVIL STANDARD DETAILS 5	CHECKED <u>V. AUTIER</u>	
	PROJECT DATE <u>10/28/20</u>	

SITE GENERAL COORDINATES (SEE SHEET C101)			
POINT #	NORTHING	EASTING	LOCATION
◊100	2606422.74	6463344.20	EDGE OF PAD, AT COPCO ROAD
◊101	2606468.40	6463318.93	EDGE OF PAD, PC
◊102	2606485.34	6463349.56	EDGE OF PAD, CC
◊103	2606510.30	6463324.96	CORNER OF CATCH BASIN
◊104	2606516.29	6463333.19	EDGE OF PAD, PT
◊105	2606523.41	6463346.07	EDGE OF PAD, PC
◊106	2606554.04	6463329.12	EDGE OF PAD, CC
◊107	2606568.45	6463361.02	EDGE OF PAT, PT
◊108	2606646.59	6463318.04	CORNER OF CATCH BASIN
◊109	2606680.88	6463299.12	EDGE OF PAD, PT
◊110	2606686.67	6463295.12	CORNER OF VAULT TOILET PAD
◊111	2606676.53	6463284.61	CORNER OF VAULT TOILET PAD
◊112	2606683.36	6463252.35	CORNER OF CATCH BASIN
◊113	2606651.05	6463156.48	EDGE OF PAD, AT COHO RACEWAYS
◊114	2606644.74	6463150.16	EDGE OF PAD, PC
◊115	2606632.31	6463165.40	EDGE OF PAD, CC
◊116	2606632.02	6463145.74	EDGE OF PAD, PT
◊117	2606590.13	6463174.75	CORNER OF CATCH BASIN
◊118	2606559.51	6463155.41	EDGE OF PAD, PC
◊119	2606564.22	6463190.09	EDGE OF PAD, CC
◊120	2606547.27	6463159.47	EDGE OF PAD, PT
◊121	2606528.06	6463170.10	EDGE OF PAD, PT
◊122	2606523.08	6463172.37	EDGE OF PAD, PT
◊123	2606553.05	6463253.42	CORNER OF CATCH BASIN
◊124	2606373.53	6463226.82	EDGE OF DRIVEWAY, PC
◊125	2606363.67	6463196.07	EDGE OF DRIVEWAY, CC
◊126	2606344.27	6463221.88	EDGE OF DRIVEWAY, AT COPCO ROAD
◊127	2606464.45	6463212.87	EDGE OF DRIVEWAY
◊128	2606379.94	6463243.64	EDGE OF DRIVEWAY, PT
◊129	2606399.48	6463248.84	EDGE OF PAD, PT
◊130	2606385.07	6463257.74	EDGE OF DRIVEWAY, CC
◊131	2606406.84	6463261.73	EDGE OF PAD, CC
◊132	2606372.37	6463265.72	EDGE OF DRIVEWAY, AT COPCO ROAD
◊133	2606393.93	6463269.05	EDGE OF PAD, PT
◊134	2606396.71	6463303.06	EDGE OF PAD, AT COPCO ROAD
◊135	2606408.80	6463295.91	EDGE OF PAD, PC
◊136	2606401.75	6463299.81	EDGE OF PAD, CC
◊137	2606403.55	6463298.82	EDGE OF PAD, CC
◊138	2606406.45	6463304.07	EDGE OF PAD, PT
◊139	2606404.57	6463305.11	EDGE OF PAD, PC
◊140	2606483.41	6463135.50	CORNER OF FISH RELEASE POOL
◊141	2606479.81	6463138.96	CORNER OF FISH RELEASE POOL
◊142	2606514.01	6463184.32	CENTER OF HDS-1

MECH TRUCK ACCESS ROAD COORDINATES (SEE SHEET C101)			
POINT #	NORTHING	EASTING	LOCATION
◊200	2606704.95	6463277.58	ACCESS ROAD CENTERLINE, START
◊201	2606708.46	6463281.22	ACCESS ROAD CENTERLINE, PC
◊202	2606726.46	6463263.86	ACCESS ROAD CENTERLINE, CC
◊203	2606716.22	6463286.67	ACCESS ROAD CENTERLINE, PT
◊204	2606755.15	6463304.14	ACCESS ROAD CENTERLINE, PC
◊205	2606743.27	6463330.60	ACCESS ROAD CENTERLINE, CC
◊206	2606754.76	6463357.23	ACCESS ROAD CENTERLINE, PRC
◊207	2606765.65	6463382.48	ACCESS ROAD CENTERLINE, CC
◊208	2606738.18	6463383.77	ACCESS ROAD CENTERLINE, PT
◊209	2606739.21	6463405.83	ACCESS ROAD CENTERLINE, END
◊210	2606740.69	6463284.37	CORNER OF METER VAULT
◊211	2606749.25	6463272.05	CORNER OF METER VAULT
◊212	2606705.84	6463229.03	EDGE OF GRAVEL
◊213	2606763.24	6463269.88	EDGE OF GRAVEL
◊214	2606767.24	6463302.99	EDGE OF GRAVEL
◊215	2606772.45	6463305.56	EDGE OF GRAVEL
◊216	2606802.02	6463310.42	CORNER OF INTAKE STRUCTURE
◊217	2606807.50	6463319.02	CORNER OF INTAKE STRUCTURE
◊218	2606817.89	6463331.49	EDGE OF GRAVEL
◊219	2606799.37	6463340.62	EDGE OF GRAVEL, PC
◊220	2606792.88	6463327.93	EDGE OF GRAVEL, FENCE PI
◊221	2606783.43	6463338.61	EDGE OF GRAVEL, FENCE PI
◊222	2606788.37	6463308.64	EDGE OF GRAVEL, FENCE PI

COHO BUILDING COORDINATES (SEE SHEET C101)			
POINT #	NORTHING	EASTING	LOCATION
◊300	2606688.32	6463210.73	CORNER OF CONCRETE PAD
◊301	2606633.37	6463263.72	CORNER OF COHO BUILDING

CHINOOK RACEWAYS COORDINATES (SEE SHEET C101)			
POINT #	NORTHING	EASTING	LOCATION
◊400	2606604.74	6463292.06	CORNER OF RACEWAYS 1-4
◊401	2606574.07	6463236.64	CORNER OF RACEWAYS 5-8
◊402	2606609.65	6463292.77	CORNER OF FENCE
◊403	2606550.98	6463186.75	CORNER OF FENCE
◊404	2606497.00	6463216.62	FENCE, PI
◊405	2606489.89	6463219.80	FENCE, PI
◊406	2606479.97	6463225.28	CORNER OF FENCE
◊407	2606485.25	6463234.83	FENCE, PI
◊408	2606495.48	6463250.15	FENCE, PI
◊409	2606536.04	6463323.45	CORNER OF FENCE

CHINOOK INCUBATION BUILDING COORDINATES (SEE SHEET C101)			
POINT #	NORTHING	EASTING	LOCATION
◊500	2606462.06	6463235.20	CORNER OF CHINOOK INCUBATION BUILDING
◊501	2606486.91	6463280.11	CORNER OF CHINOOK INCUBATION BUILDING

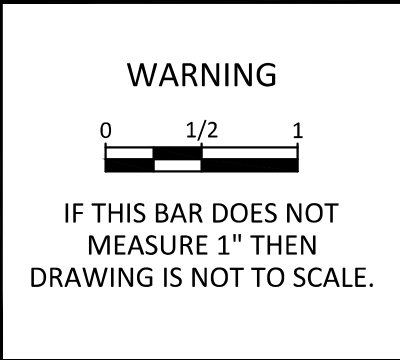
SOUTH SITE COORDINATES (SEE SHEET C102)			
POINT #	NORTHING	EASTING	LOCATION
◊600	2606344.10	6463257.36	EDGE OF PAD, AT COPCO ROAD
◊601	2606334.08	6463293.80	EDGE OF PAD, PC
◊602	2606367.83	6463303.08	EDGE OF PAD, CC
◊603	2606332.83	6463302.48	EDGE OF PAD, PT
◊604	2606332.39	6463328.47	EDGE OF PAD, PC
◊605	2606307.09	6463329.47	EDGE OF PAD, CC
◊606	2606330.88	6463338.03	EDGE OF PAD, PT
◊607	2606330.39	6463339.65	EDGE OF PAD, PC
◊608	2606318.59	6463337.10	EDGE OF PAD, CC
◊609	2606315.40	6463348.74	EDGE OF PAD, PT
◊610	2606289.03	6463341.44	CORNER OF CATCH BASIN
◊611	2606281.69	6463336.30	CORNER OF PROPANE TANK
◊612	2606269.16	6463332.83	CORNER OF GENSET
◊613	2606238.27	6463317.48	CORNER OF CATCH BASIN
◊614	2606233.71	6463314.67	CENTER OF HDS-2
◊615	2606206.89	6463318.61	EDGE OF PAD, PI
◊616	2606171.42	6463286.26	EDGE OF PAD, PI
◊617	2606321.34	6463222.95	EDGE OF PAD, AT COPCO ROAD
◊618	2606267.97	6463248.66	EDGE OF PAD, PC
◊619	2606274.48	6463262.18	EDGE OF PAD, CC
◊620	2606185.75	6463233.93	EDGE OF PAD AT CONC WALL
◊621	2606181.30	6463228.12	EDGE OF PAD, AT CONC WALL
◊622	2606155.63	6463189.73	FISH BARRIER BERM, CENTERLINE
◊623	2606158.45	6463170.28	FISH BARRIER BERM, CENTERLINE

CONTRACTOR STAGING AREA COORDINATES (SEE SHEET G011)			
POINT #	NORTHING	EASTING	LOCATION
◊800	2606664.38	6463047.40	STAGING AREA LIMITS
◊801	2606665.21	6463105.61	STAGING AREA LIMITS
◊802	2606705.85	6463136.40	STAGING AREA LIMITS
◊803	2606738.48	6463137.38	STAGING AREA LIMITS
◊804	2606748.48	6463117.08	STAGING AREA LIMITS
◊805	2606754.44	6463098.11	STAGING AREA LIMITS
◊806	2606798.00	6463050.73	STAGING AREA LIMITS
◊807	2606775.11	6463042.12	STAGING AREA LIMITS
◊808	2606742.79	6463041.65	STAGING AREA LIMITS
◊809	2606674.70	6463045.29	STAGING AREA LIMITS

ABBREVIATIONS:

PC	POINT OF CURVATURE
CC	CENTER OF CURVE
PT	POINT OF TANGENCY
PI	POINT OF INFLECTION
PCC	POINT OF COMPOUND CURVATURE
PRC	POINT OF REVERSE CURVATURE

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



KLAMATH RIVER RENEWAL CORPORATION		DESIGNED <u>A. LEMAN</u>	DRAWING GC007
FALL CREEK FISH HATCHERY		DRAWN <u>J. LAHMON</u>	
SITE COORDINATES		CHECKED <u>V. AUTIER</u>	
		PROJECT DATE <u>10/28/20</u>	

STORM SEWER SYSTEM COORDINATES (SEE SHEETS C109 AND C110)				
POINT #	NORTHING	EASTING	ELEVATION*	DESCRIPTION
700	2606650.92	6463313.37	2497.41	45° BEND
701	2606654.50	6463301.03	2497.22	45° BEND
702	2606643.98	6463281.92	2497.07	11.25° BEND
703	2606654.12	6463277.77	2497.27	45° BEND
704	2606639.72	6463277.51	2497.00	45° WYE
705	2606576.37	6463242.23	2497.21	45° BEND
706	2606581.69	6463223.56	2497.64	45° BEND
707	2606582.42	6463218.08	2495.91	30° BEND
708	2606577.95	6463216.80	2495.85	45° WYE
709	2606556.73	6463178.44	2495.42	45° BEND
710	2606585.73	6463167.90	2496.30	45° BEND
711	2606561.08	6463167.16	2495.70	30° BEND
712	2606546.18	6463175.40	2495.31	45° WYE
713	2606538.82	6463179.48	2495.23	45° BEND
714	2606491.95	6463143.82	2494.83	PIPE OUTLET
715	2606480.77	6463295.01	2498.58	45° BEND
716	2606469.50	6463295.46	2498.41	30° BEND
717	2606435.67	6463314.18	2497.80	45° BEND
718	2606404.67	6463305.36	2497.30	45° BEND
719	2606401.58	6463299.78	2497.20	PIPE OUTLET
720	2606373.82	6463260.36	2493.00	PIPE END CAP
721	2606376.14	6463252.31	2493.00	PIPE END CAP
722	2606374.98	6463256.33	2493.00	TEE
723	2606324.11	6463241.74	2490.41	45° BEND
724	2606315.60	6463246.46	2490.12	45° BEND
725	2606295.76	6463320.94	2487.81	45° BEND
726	2606289.20	6463324.75	2487.57	45° BEND
727	2606290.34	6463332.97	2487.55	45° BEND
728	2606284.91	6463323.60	2487.46	45° WYE
729	2606291.79	6463316.24	2489.68	45° BEND
730	2606280.92	6463322.54	2487.41	14"x6" RED WYE
731	2606239.26	6463311.45	2486.94	45° BEND
732	2606189.20	6463305.71	2486.51	22.5° BEND
733	2606175.72	6463295.48	2486.34	22.5° BEND
734	2606164.83	6463276.86	2486.12	22.5° BEND
735	2606161.02	6463249.08	2485.84	22.5° BEND
736	2606162.59	6463243.08	2485.78	PIPE OUTLET

* ALL ELEVATIONS ARE INVERT ELEVATIONS.

COHO BUILDING SUPPLY PIPING COORDINATES (SEE SHEET C300)				
STA	NORTHING	EASTING	ELEVATION*	DESCRIPTION
0+00.00	2606794.70	6463321.29	2504.90	TEE
0+27.83	2606779.68	6463297.86	2503.79	22.5° BEND
1+01.08	2606719.52	6463256.06	2501.21	11.25° BEND
1+59.70	2606678.83	6463213.86	2498.83	TEE

* ALL ELEVATIONS ARE INVERT ELEVATIONS

CHINOOK RACEWAY SUPPLY PIPING COORDINATES (SEE SHEETS C400-C401)				
STA	NORTHING	EASTING	ELEVATION*	DESCRIPTION
0+00.00	2606786.26	6463326.70	2504.90	TEE
0+37.18	2606766.20	6463295.40	2503.12	22.5° BEND
0+98.51	2606715.83	6463260.40	2501.18	11.25° BEND
1+44.61	2606683.83	6463227.21	2498.80	90° BEND
2+37.24	2606617.15	6463291.51	2498.62	11.25° BEND
2+45.91	2606609.57	6463295.71	2498.60	90° BEND
3+66.14	2606551.35	6463190.51	2499.25	PRESSURIZED CLEANOUT

* ALL ELEVATIONS ARE INVERT ELEVATIONS

CHINOOK INCUBATION SUPPLY PIPING COORDINATES (SEE SHEETS C500-C501)				
STA	NORTHING	EASTING	ELEVATION*	DESCRIPTION
0+00.00	2606781.21	6463329.93	2504.90	90° BEND
0+44.68	2606757.09	6463292.32	2502.72	22.5° BEND
0+97.05	2606714.09	6463262.44	2501.16	11.25° BEND
1+40.74	2606683.76	6463230.98	2498.81	90° BEND
2+41.26	2606611.40	6463300.76	2498.61	11.25° BEND
3+16.22	2606545.82	6463337.05	2498.45	90° BEND
4+02.99	2606503.89	6463261.08	2496.50	90° BEND
4+27.05	2606482.84	6463272.74	2496.67	PIPE PENETRATION

* ALL ELEVATIONS ARE INVERT ELEVATIONS

ADULT HOLDING SUPPLY PIPING COORDINATES (SEE SHEETS C601-C603)				
STA	NORTHING	EASTING	ELEVATION*	DESCRIPTION
0+00.00	2606790.48	6463323.99	2504.90	TEE
0+32.92	2606772.72	6463296.27	2503.33	22.5° BEND
0+99.81	2606717.78	6463258.10	2501.38	11.25° BEND
1+48.62	2606683.91	6463222.97	2498.80	90° BEND
2+43.84	2606615.36	6463289.07	2498.61	11.25° BEND
2+49.07	2606610.79	6463291.61	2498.60	90° BEND
3+71.16	2606551.67	6463184.78	2495.21	45° BEND
3+82.28	2606540.99	6463181.71	2495.21	45° BEND
5+36.99	2606405.62	6463256.62	2496.68	45° BEND
6+34.64	2606311.78	6463229.64	2486.76	45° BEND
6+90.30	2606263.07	6463256.58	2484.49	45° BEND
7+20.74	2606255.35	6463286.03	2484.97	90° BEND
7+23.74	2606252.25	6463285.22	2484.97	PIPE PENETRATION

* ALL ELEVATIONS ARE INVERT ELEVATIONS

DRAIN PIPING COORDINATES (SEE SHEETS C301, C402 AND C502)				
STA	NORTHING	EASTING	ELEVATION*	DESCRIPTION
0+00.00	2606644.44	6463150.20	2499.11	CLEANOUT
0+85.27	2606583.05	6463209.38	2498.68	30° BEND
0+92.27	2606576.25	6463211.04	2498.65	30° BEND
0+98.34	2606570.41	6463209.37	2498.62	45° BEND
1+30.79	2606554.70	6463180.98	2498.45	45° BEND
1+35.03	2606550.63	6463179.80	2498.43	45° BEND
10+00.00	2606485.71	6463230.49	2499.00	PIPE PENETRATION
10+06.33	2606480.17	6463233.56	2498.65	45° BEND
10+24.60	2606462.61	6463228.51	2497.96	WYE
20+43.96	2606405.99	6463259.85	2496.87	45° BEND
21+41.61	2606312.14	6463232.86	2487.18	45° BEND
21+94.78	2606265.62	6463258.61	2484.40	45° BEND
22+26.40	2606257.62	6463289.20	2484.86	90° BEND
22+31.94	2606252.25	6463287.81	2484.86	PIPE PENETRATION

* ALL ELEVATIONS ARE INVERT ELEVATIONS

SETTLING POND DRAIN PIPING COORDINATES (SEE SHEET C605)				
STA	NORTHING	EASTING	ELEVATION*	DESCRIPTION
0+00.00	2606212.46	6463296.32	2486.50	PIPE PENETRATION
0+04.89	2606211.22	6463301.05	2486.42	45° BEND
0+06.39	2606209.92	6463301.80	2486.40	45° BEND
0+40.82	2606176.61	6463293.08	2485.85	45° BEND
0+60.38	2606166.74	6463276.19	2485.54	22.5° BEND
0+82.33	2606163.76	6463254.45	2485.19	45° BEND
0+86.15	2606166.07	6463251.40	2485.13	45° BEND
0+89.94	2606169.83	6463250.88	2485.07	PIPE PENETRATION

* ALL ELEVATIONS ARE INVERT ELEVATIONS

WASTE DRAIN PIPING COORDINATES (SEE SHEETS C302, C403 AND C503)				
STA	NORTHING	EASTING	ELEVATION*	DESCRIPTION
0+00.00	2606640.92	6463156.52	2499.16	CLEANOUT
0+78.98	2606584.06	6463211.34	2498.77	30° BEND
0+87.06	2606576.21	6463213.28	2498.73	30° BEND
0+94.61	2606568.96	6463211.19	2498.69	45° BEND
1+27.06	2606553.25	6463182.80	2498.53	45° BEND
1+29.27	2606551.12	6463182.19	2498.52	45° BEND
10+00.00	2606543.93	6463329.10	2500.14	CLEANOUT
11+01.95	2606494.42	6463239.98	2497.08	45° BEND
11+34.63	2606463.02	6463230.95	2496.36	WYE
20+48.03	2606406.27	6463262.35	2495.84	45° BEND
21+45.68	2606312.43	6463235.37	2491.14	45° BEND
21+96.87	2606267.62	6463260.15	2489.95	45° BEND
22+35.99	2606257.71	6463297.99	2489.04	45° BEND
22+37.03	2606256.82	6463298.52	2489.01	45° BEND

* ALL ELEVATIONS ARE INVERT ELEVATIONS

COHO FISH RELEASE PIPING COORDINATES (SEE SHEET C303)				
STA	NORTHING	EASTING	ELEVATION*	DESCRIPTION
0+34.72	2606647.77	6463163.00	2500.16	PIPE PENETRATION
0+35.55	2606647.17	6463163.58	2500.17	BEGIN JOINT MITER
0+41.84	2606644.72	6463169.19	2500.23	END JOINT MITER
0+60.91	2606644.37	6463188.27	2500.42	BEGIN JOINT MITER
0+67.20	2606641.93	6463193.88	2500.48	END JOINT MITER
0+68.42	2606641.05	6463194.73	2500.49	PIPE PENETRATION
0+72.17	2606638.35	6463197.33	2500.50	PIPE PENETRATION

* ALL ELEVATIONS ARE INVERT ELEVATIONS

CHINOOK FISH RELEASE PIPING COORDINATES (SEE SHEET C404)				
STA	NORTHING	EASTING	ELEVATION*	DESCRIPTION
0+00.67	2606491.30	6463222.35	2498.93	PIPE PENETRATION
0+28.95	2606516.02	6463208.61	2497.20	BEGIN JOINT MITER
0+44.66	2606525.56	6463196.67	2496.79	END JOINT MITER
0+46.28	2606526.01	6463195.12	2496.76	BEGIN JOINT MITER
0+68.25	2606520.43	6463175.03	2496.32	END JOINT MITER
1+22.48	2606480.87	6463137.95	2495.24	PIPE OUTLET

* ALL ELEVATIONS ARE INVERT ELEVATIONS

ADULT HOLDING FISH RELEASE PIPING COORDINATES (SEE SHEET C604)				
STA	NORTHING	EASTING	ELEVATION*	DESCRIPTION
0+00.00	2606169.75	6463232.24	2486.25	PIPE PENETRATION
0+15.98	2606185.21	6463236.29	2486.50	PIPE PENETRATION

* ALL ELEVATIONS ARE INVERT ELEVATIONS

SHEET NOTES:

1. PIPING COORDINATES SHOW HORIZONTAL INFLECTION POINTS ONLY. SEE PLAN AND PROFILE SHEETS FOR VERTICAL INFLECTION POINTS.
2. NORTHINGS, EASTINGS, AND INVERTS ARE LOCATED AT THE CENTER OF THE FITTING IN THE HORIZONTAL PLANE.

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



WARNING

0

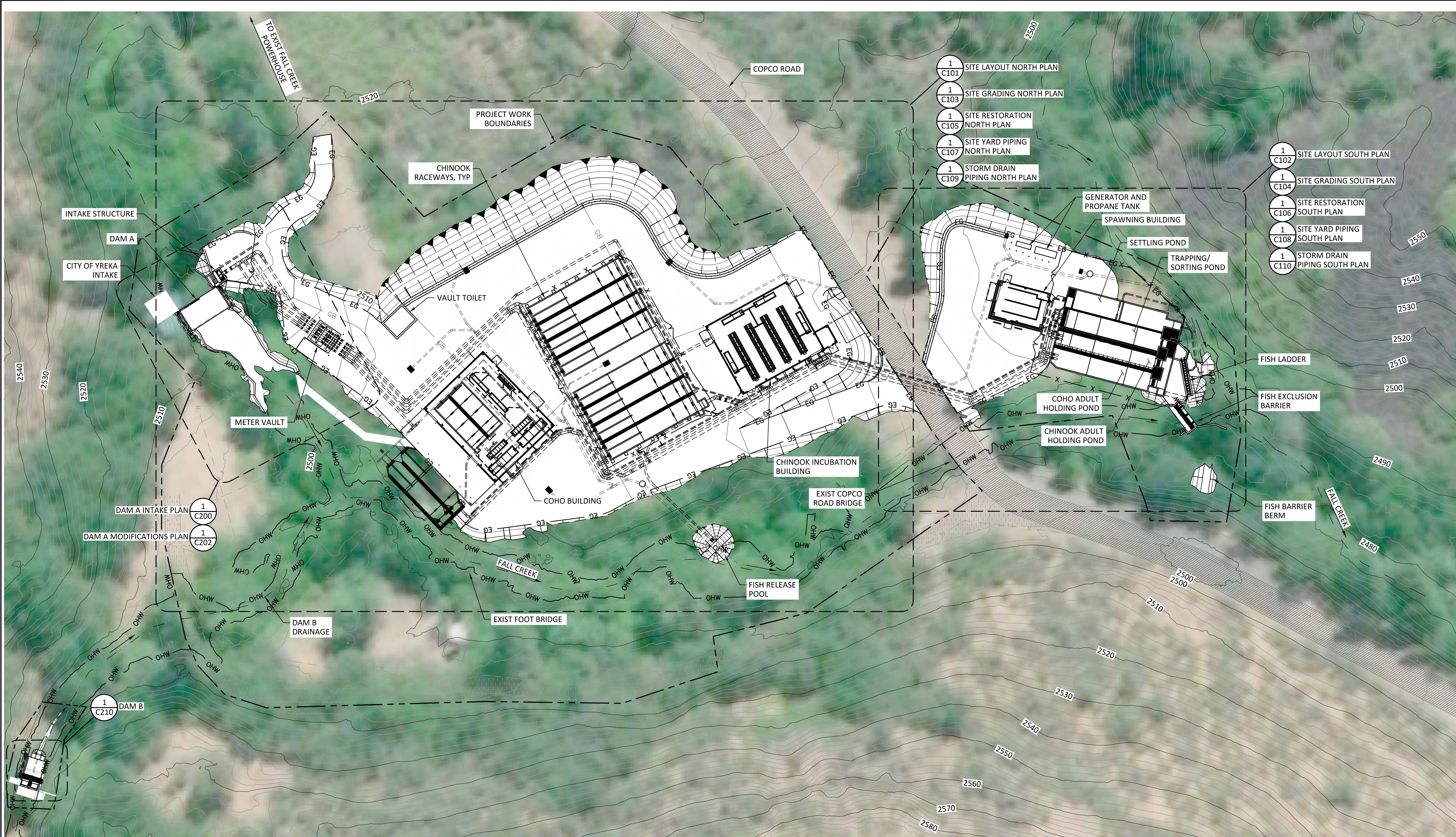
1/2

1

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



KLAMATH RIVER RENEWAL CORPORATION		DESIGNED <u>A. LEMAN</u>	DRAWING GC008
FALL CREEK FISH HATCHERY		DRAWN <u>J. LAHMON</u>	
PIPING COORDINATES		CHECKED <u>V. AUTIER</u>	
		PROJECT DATE <u>10/28/20</u>	



- 1 C101 SITE LAYOUT NORTH PLAN
- 1 C103 SITE GRADING NORTH PLAN
- 1 C105 SITE RESTORATION NORTH PLAN
- 1 C107 SITE YARD PIPING NORTH PLAN
- 1 C109 STORM DRAIN PIPING NORTH PLAN
- 1 C102 SITE LAYOUT SOUTH PLAN
- 1 C104 SITE GRADING SOUTH PLAN
- 1 C106 SITE RESTORATION SOUTH PLAN
- 1 C108 SITE YARD PIPING SOUTH PLAN
- 1 C110 STORM DRAIN PIPING SOUTH PLAN

OVERALL SITE KEY PLAN
SCALE: 1"= 30'

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



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



KLAMATH RIVER RENEWAL CORPORATION		DESIGNED <u>A. LEMAN</u>	DRAWING C100
FALL CREEK FISH HATCHERY		DRAWN <u>J. LAHMON</u>	
OVERALL SITE KEY PLAN		CHECKED <u>V. AUTIER</u>	
		PROJECT DATE <u>10/28/20</u>	

Path: C:\Vault20\Klamath River Renewal Corp\Fall Creek Facility\C100.dwg Plot date: Oct 28, 2020 01:08pm, CAD User: Guerrero