

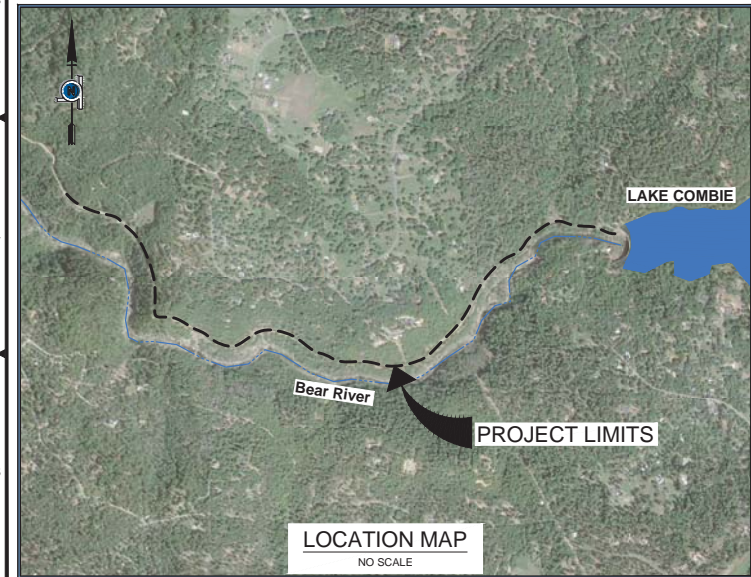
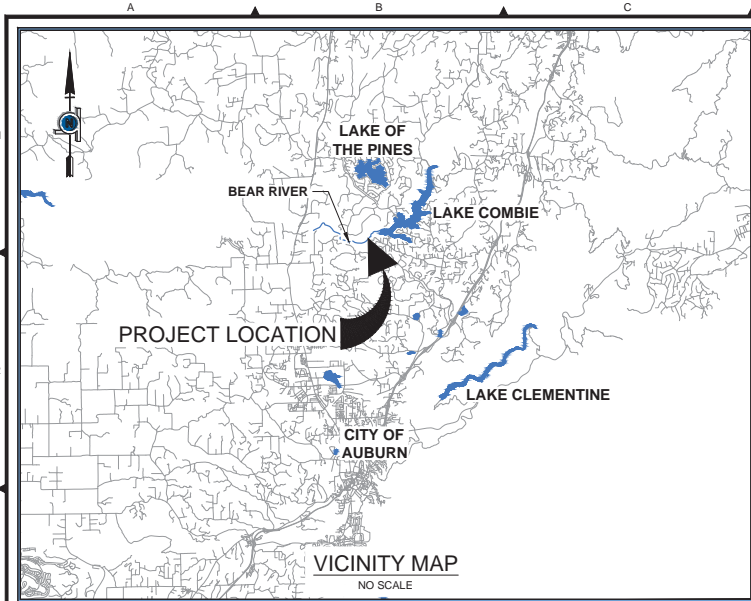
**Contract Drawings for
NEVADA IRRIGATION DISTRICT**

**COMBIE PHASE 1
CANAL REPLACEMENT PROJECT**

Prepared for
Nevada Irrigation District

Prepared by
Quincy Engineering, Inc.
3400 Douglas Boulevard, Suite 190
Roseville, CA 95661





CONTRACT DRAWINGS FOR
NEVADA IRRIGATION DISTRICT



NID
NEVADA IRRIGATION DISTRICT

**COMBIE PHASE 1
CANAL REPLACEMENT PROJECT**

December 21, 2018

SUBMITTED: *[Signature]*
DOUG RODERICK - DISTRICT ENGINEER / PROJECT MANAGER

[Signature]
D. TODD KOTEY - PRINCIPAL IN CHARGE 44811 - CIVIL

[Signature]
SHAWN JOHNS - PROJECT ENGINEER 54293 - CIVIL

Plan Date:	Revision Description	Rev. By:	App. By:	Date

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Plan Date: 12/21/2018
 Design By: STJ
 Drawn By:
 DCP
 Checked By: DTK

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NEVADA IRRIGATION DISTRICT
 1036 WEST MAIN ST. GRASS VALLEY, CA 95945

IMPROVEMENT PLANS FOR
COMBIE PHASE 1
CANAL REPLACEMENT PROJECT
 GENERAL
 TITLE SHEET

DRAWING NUMBER	G1
SHEET NUMBER	
1 of 45	

GENERAL			GRADING		
Sht. No.	Dwg. No.	Sheet Description	Sht. No.	Dwg. No.	Sheet Description
1	G1	TITLE SHEET	40	C201	CROSSOVER 1
2	G2	DRAWING INDEX	41	C202	CROSSOVER 2
3	G3	SYMBOLS AND LEGENDS	42	C203	CROSSOVER 3
4	G4	STANDARD ABBREVIATIONS	43	C204	CROSSOVER 3
5	G5	GENERAL NOTES			
6	G6	PROJECT CONTROL AND HYDRAULIC PROFILE			

DEMOLITION			DRAINAGE		
Sht. No.	Dwg. No.	Sheet Description	Sht. No.	Dwg. No.	Sheet Description
7	D1	WASTEWAY STRUCTURE DETAILS	44	DS1	DRAINAGE SYSTEMS STA 26+92 TO STA 82.38
8	D2	SIPHON CONTROL STRUCTURE DETAILS	45	DS2	DRAINAGE SYSTEMS STA 91+64 TO STA 93+36
9	D3	TYPICAL DEMOLITION SECTIONS			

STRUCTURAL			REFERENCE DRAWINGS		
Sht. No.	Dwg. No.	Sheet Description	SEE REFERENCE DRAWINGS BY ST. MAURICE-HELMKAMP-MUSSER, "COMBIE NORTH PHASE 1" AS-BUILT PLANS DATED APRIL, 1975 AND STANTEC, "BEAR RIVER SIPHON REPLACEMENT PROJECT NO. 6746", VOLUME 2 DATED MAY, 2017 FOR AS-BUILT INFORMATION FOR EXISTING STRUCTURES.		
10	S1	TYPICAL STRUCTURAL DETAILS			

PIPELINE DETAILS		
Sht. No.	Dwg. No.	Sheet Description
11	C1	TRANSITION STRUCTURE 1
12	C2	TRANSITION STRUCTURE 2
13	C3	WASTEWAY STRUCTURE 1
14	C4	WASTEWAY STRUCTURE 2
15	C5	SIPHON CONTROL STRUCTURE 1
16	C6	SIPHON CONTROL STRUCTURE 2
17	C7	TYPICAL SECTIONS
18	C8	MISCELLANEOUS 1
19	C9	MISCELLANEOUS 2

PIPELINE		
Sht. No.	Dwg. No.	Sheet Description
20	C100	PIPELINE DRAWING KEY MAP AND DATA TABLES
21	C101	PLAN AND PROFILE STA 9+19 TO STA 9+50
22	C102	PLAN AND PROFILE STA 9+50 TO STA 14+50
23	C103	PLAN AND PROFILE STA 14+50 TO STA 19+50
24	C104	PLAN AND PROFILE STA 19+50 TO STA 24+50
25	C105	PLAN AND PROFILE STA 24+50 TO STA 29+50
26	C106	PLAN AND PROFILE STA 29+50 TO STA 34+50
27	C107	PLAN AND PROFILE STA 34+50 TO STA 39+50
28	C108	PLAN AND PROFILE STA 39+50 TO STA 44+50
29	C109	PLAN AND PROFILE STA 44+50 TO STA 49+50
30	C110	PLAN AND PROFILE STA 49+50 TO STA 54+50
31	C111	PLAN AND PROFILE STA 54+50 TO STA 59+50
32	C112	PLAN AND PROFILE STA 59+50 TO STA 64+50
33	C113	PLAN AND PROFILE STA 64+50 TO STA 69+50
34	C114	PLAN AND PROFILE STA 69+50 TO STA 74+50
35	C115	PLAN AND PROFILE STA 74+50 TO STA 79+50
36	C116	PLAN AND PROFILE STA 79+50 TO STA 84+50
37	C117	PLAN AND PROFILE STA 84+50 TO STA 89+50
38	C118	PLAN AND PROFILE STA 89+50 TO STA 94+50
39	C119	PLAN AND PROFILE STA 94+50 TO STA 98+27

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IMPROVEMENT PLANS FOR
COMBIE PHASE 1
CANAL REPLACEMENT PROJECT
GENERAL
 DRAWING INDEX

DRAWING NUMBER: **G2**
 SHEET NUMBER: **2 of 45**

GENERAL ANNOTATION SYMBOLS:	PLAN SYMBOLS: (EXISTING)	PLAN SYMBOLS: (PROPOSED)	SINGLE LINE UTILITY SYMBOLS: (EXISTING, SIZE AS NOTED ON PLANS)	SINGLE LINE UTILITY SYMBOLS: (PROPOSED, SIZE AS NOTED ON PLANS)
<p>PLAN or ELEVATION TITLE</p> <p>1" = 20' SCALE</p> <p>SECTION OR DETAIL ID</p> <p>SECTION or DETAIL TITLE A</p> <p>SCALE 1/2" = 1'-0" CXX, CXX</p> <p>SHEET WHERE SECTION OR DETAIL IS CALLED "FROM"</p> <p>ADDITIONAL SHEETS WHERE SECTION OR DETAIL IS CALLED "FROM"</p> <p>DETAIL ID</p> <p>SHEET WHERE DETAIL RESIDES</p> <p>SECTION ID</p> <p>SHEET WHERE SECTION RESIDES</p> <p>SECTION ID</p>	<p>EXISTING FACILITIES</p> <p>EXISTING FENCE</p> <p>EXISTING EMBANKMENT</p> <p>EXISTING PIPE TO BE REMOVED OR ABANDONED</p> <p>EXISTING VEGETATION</p> <p>EXISTING VEGETATION TO BE REMOVED OR TRIMMED</p> <p>EXISTING GRAVEL OR DIRT ROAD</p> <p>EXISTING PAVED ROAD</p> <p>EXISTING DRAINAGE FLOWLINE</p> <p>EXISTING STORM DRAIN CULVERT W/ SIZE AND TYPE</p> <p>PROPERTY LINE</p> <p>R/W RIGHT OF WAY LINE</p> <p>SECTION CORNER</p> <p>EXISTING STRUCTURE DEMOLITION</p>	<p>PROPOSED FACILITIES</p> <p>PROPOSED FENCE</p> <p>PROPOSED EMBANKMENT</p> <p>PROPOSED WATER METER</p> <p>PROPOSED GAS METER</p> <p>PROPOSED EASEMENT AS LABELED</p> <p>PROPOSED DRAINAGE FLOWLINE</p> <p>WATER SURFACE ELEVATION</p>	<p>EXISTING GAS MAIN</p> <p>EXISTING GAS SERVICE</p> <p>EXISTING HIGH PRESSURE GAS</p> <p>EXISTING ELECTRIC</p> <p>EXISTING OVERHEAD ELECTRIC</p> <p>EXISTING UNDERGROUND ELECTRIC</p> <p>EXISTING TELECOM</p> <p>EXISTING OVERHEAD TELECOM</p> <p>EXISTING UNDERGROUND TELECOM</p> <p>EXISTING JOINT ELECTRIC AND TELECOM</p> <p>EXISTING JOINT OVERHEAD ELECTRIC AND TELECOM</p> <p>EXISTING SEWER MAIN</p> <p>EXISTING STORM DRAIN</p> <p>EXISTING WATER (POTABLE)</p> <p>EXISTING IRRIGATION WATER</p> <p>EXISTING RECLAIMED WATER</p> <p>EXISTING RAW WATER</p> <p>EXISTING FIRE HYDRANT</p>	<p>PROPOSED GAS MAIN</p> <p>PROPOSED GAS SERVICE</p> <p>PROPOSED HIGH PRESSURE GAS</p> <p>PROPOSED ELECTRIC</p> <p>PROPOSED OVERHEAD ELECTRIC</p> <p>PROPOSED UNDERGROUND ELECTRIC</p> <p>PROPOSED TELECOM</p> <p>PROPOSED OVERHEAD TELECOM</p> <p>PROPOSED UNDERGROUND TELECOM</p> <p>PROPOSED JOINT ELECTRIC AND TELECOM</p> <p>PROPOSED JOINT OVERHEAD ELECTRIC AND TELECOM</p> <p>PROPOSED SEWER MAIN</p> <p>PROPOSED STORM DRAIN</p> <p>PROPOSED WATER (POTABLE)</p> <p>PROPOSED IRRIGATION WATER</p> <p>PROPOSED RECLAIMED WATER</p> <p>PROPOSED RAW WATER</p> <p>PROPOSED FIRE HYDRANT</p>
<p>PATTERN LEGEND:</p> <p>LANDSCAPE ROCK</p> <p>NEW HMA PAVING</p> <p>AGGREGATE BASE</p> <p>ROCK SLOPE PROTECTION</p> <p>CONCRETE</p> <p>CRUSHED ROCK</p>				

Plan Date:	Revision Description	Rev.	By	App. By	Date

		Plan Date: 12/21/2018 Design By: STJ Drawn By: DCP Checked By: DTK
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NEVADA IRRIGATION DISTRICT

1036 WEST MAIN ST. GRASS VALLEY, CA 95945

IMPROVEMENT PLANS FOR
COMBIE PHASE 1
CANAL REPLACEMENT PROJECT
GENERAL
SYMBOLS AND LEGENDS

DRAWING NUMBER	G3
SHEET NUMBER	3 of 45

ABBREVIATIONS:

Table of abbreviations organized by letter (A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z). Includes terms like AB AGGREGATE BASE, AERATION; AC ASPHALT CONCRETE; AD ALUMINUM; etc.

Revision table with columns: Plan Date, Revision Description, Rev. By, App. By, Date. Includes a table with 5 rows and 5 columns.



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Nevada Irrigation District logo and address: 1036 WEST MAIN ST. GRASS VALLEY, CA 95945.

Project title: IMPROVEMENT PLANS FOR COMBIE PHASE 1 CANAL REPLACEMENT PROJECT GENERAL STANDARD ABBREVIATIONS.

Drawing Number: G4, Sheet Number: 4 of 45.

GENERAL NOTES

1. PIPE TYPE, SIZE, LOCATION, AND DEPTH OF EXISTING UNDERGROUND UTILITIES SHOWN ON IMPROVEMENT PLANS WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. EFFORTS HAVE BEEN MADE TO LOCATE AND DELINEATE ALL KNOWN UNDERGROUND FACILITIES. HOWEVER, THE ENGINEER CANNOT ASSUME RESPONSIBILITY FOR THE COMPLETENESS AND/OR ACCURACY OF THE DELINEATION OF SUCH UNDERGROUND FACILITIES, WHICH MAY BE ENCOUNTERED BUT ARE NOT INCLUDING BUT NOT LIMITED TO, AERIAL SURVEYS, COUNTY RECORDS AND COUNTY SHOWN ON THESE DRAWINGS.
2. ONLY THE APPROXIMATE LOCATIONS OF THE EXISTING FACILITIES AND OTHER UTILITIES HAVE BEEN SHOWN. THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS IN THE FIELD AND IMMEDIATELY NOTIFY THE PROJECT ENGINEER IF SAID LOCATION(S) IS SIGNIFICANTLY DIFFERENT FROM THAT SHOWN ON THIS PLAN.
3. EXISTING DRIVEWAYS, CULVERTS, DRAINAGE DITCHES, PAVEMENT, AND LANDSCAPING ARE TO BE REPLACED IN KIND UNLESS NOTED OTHERWISE.
4. ALL FACILITIES DAMAGED DURING CONSTRUCTION MUST BE SATISFACTORILY REPLACED OR REPAIRED, AND INSPECTED AND ACCEPTED BY THE OWNER AND ENGINEER.
5. PUBLIC SAFETY AND TRAFFIC CONTROL SHALL BE PROVIDED IN ACCORDANCE WITH COUNTY REQUIREMENTS AND AS DIRECTED BY THE ENGINEER. SAFE VEHICULAR AND PEDESTRIAN ACCESS SHALL BE PROVIDED AT ALL TIMES DURING CONSTRUCTION.
6. ALL SUBGRADE AND ANY UNDERLYING MATERIAL DISTURBED SHALL BE RECOMPACTED AND ORIGINAL VERTICAL ALIGNMENT RESTORED.
7. ALL COMPACTION TESTING SHALL BE PERFORMED BY THE CONTRACTOR'S GEOTECHNICAL ENGINEER IN ACCORDANCE WITH THE SPECIFICATIONS AND BE PAID FOR BY THE CONTRACTOR.
8. WORK AREAS, PARKING AREAS, AND STAGING OF CONSTRUCTION EQUIPMENT AND MATERIALS SHALL BE PERMITTED ONLY IN AREAS SPECIFICALLY IDENTIFIED ON THE CONTRACT DRAWINGS OR AS APPROVED BY THE ENGINEER.
9. PROVIDE 12 INCHES MINIMUM VERTICAL CLEARANCE BETWEEN WATERLINE AND EXISTING UTILITIES, UNLESS NOTED OTHERWISE.
10. LOCATIONS OF PIPELINES SHOWN ON THE DRAWINGS ARE APPROXIMATE. CONTRACTOR IS RESPONSIBLE FOR PROVIDING PIPE FITTINGS (WHETHER SHOWN ON THE DRAWINGS OR NOT) TO PLACE THE ALIGNMENT OF THE PIPELINES AS CLOSE AS POSSIBLE TO THAT SHOWN ON THE DRAWINGS.
11. PIPELINES SHALL SLOPE UNIFORMLY BETWEEN ELEVATIONS SHOWN ON THE PLANS AND PROFILES. ALL PIPE ELEVATIONS SHOWN REFER TO PIPE INVERT UNLESS NOTED OTHERWISE.
12. JOINT DEFLECTIONS ON STANDARD FITTINGS OR PIPE JOINTS TO OBTAIN VERTICAL OR HORIZONTAL CURVES SHOWN ON THE DRAWINGS SHALL NOT EXCEED THE MANUFACTURER'S RECOMMENDED MAXIMUM DEFLECTIONS.
13. EXCAVATED MATERIAL NOT SUITABLE AS BACKFILL MATERIAL SHALL BE DISPOSED OF BY THE CONTRACTOR. CONTRACTOR IS RESPONSIBLE FOR OBTAINING REQUIRED PERMITS AND AGREEMENTS, AND FOR ALL ASSOCIATED COSTS.
14. THE BEARINGS AND DISTANCES SHOWN ON THE DRAWINGS ARE APPROXIMATE. IT IS INTENDED TO MAINTAIN A GENERALLY UNIFORM CERTAIN OFFSET FROM PHYSICAL ELEMENTS, WHICH ARE IDENTIFIED ON THE DRAWINGS.
15. ALL DRIVEWAYS MUST BE KEPT ACCESSIBLE AT ALL TIMES AND THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND PROPERTY OWNERS TWO WORKING DAYS IN ADVANCE OF WORK AFFECTING THE PROPERTY OWNERS. ALL DRIVEWAYS SHALL BE REPLACED IN KIND.
16. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING MONUMENTS AND OTHER SURVEY MARKERS. MONUMENTS AND SURVEY MARKERS DESTROYED DURING CONSTRUCTION SHALL BE REPLACED AND RE-ESTABLISHED BY A LICENSED SURVEYOR, AT THE CONTRACTOR'S EXPENSE.
17. PERMANENT TRAFFIC SIGNS SHALL CONFORM TO THE CALIFORNIA MUTCD TRAFFIC SIGN STANDARDS FOR "STANDARD" SIZE, CHARACTER DIMENSIONS AND LETTER STROKE WIDTH. ALL STOP SIGNS SHALL BE 30" MINIMUM SIZE OF HIGH INTENSITY GRADE SHEETING.
18. THE CONTRACTOR MUST IMMEDIATELY REINSTALL ANY TRAFFIC SIGNS REMOVED IN THE COURSE OF CONSTRUCTION. ANY SIGNS LOST OR DAMAGED BY THE CONTRACTOR SHALL BE REPLACED OR REPAIRED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER.
19. PRIOR TO ANY ACTIVITY OCCURRING WITHIN THE RIGHT-OF-WAY, THE CONTRACTOR SHALL INSTALL W20-1 SIGNS IN ACCORDANCE WITH PART 6 OF THE CALIFORNIA MUTCD. THE SIGNS SHALL BE PROFESSIONALLY MADE, METAL, REFLECTORIZED AND PLACED ON WOODEN POSTS FOR THE DURATION OF THE PROJECT. THE MINIMUM SIZE SHALL BE 36". THE SIGNS SHALL BE REPLACED OR REPAIRED IF STOLEN OR DAMAGED. THE PLACEMENT, TYPE AND LOCATION OF THE TRAFFIC CONTROL DEVICES SHALL BE REVIEWED AND APPROVED BY THE COUNTY INSPECTOR. THE INSPECTOR SHALL DIRECT THE INSTALLATION OR CHANGES TO SIGNS, STRIPING, CONES, BARRICADES ETC. DURING THE COURSE OF CONSTRUCTION FOR TRAFFIC SAFETY.
20. UNBALANCED EARTHWORK QUANTITIES MAY REQUIRE A SEPARATE GRADING PERMIT FOR THE OFF-SITE FACILITY IF EXPORT/IMPORT EXCEEDS 250 CUBIC YARDS AS REQUIRED BY THE COUNTY'S GRADING ORDINANCE.
21. ALL APPLICABLE SOILS REPORTS ARE INCLUDED IN THE APPENDICES. THE TITLE OF THE GEOTECHNICAL REPORT IS GEOTECHNICAL DESIGN REPORT NID COMBIE DAM PHASE 1 CANAL REPLACEMENT PROJECT NEVADA COUNTY, CALIFORNIA.
22. CONTRACTOR SHALL MAINTAIN ADEQUATE DUST CONTROL PER THE ENGINEER.
23. INSTALLATION AND MAINTENANCE OF EROSION CONTROL MEASURES ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PREVENTION OF SIGNIFICANT EROSION AND SILTATION ENTERING THE STORM DRAIN SYSTEM, NATURAL DRAINAGE COURSES AND /OR INTRUDING UPON ADJACENT ROADWAYS AND PROPERTIES. WINTERIZATION AND EROSION CONTROL SHOWN ON THESE MAY BE REQUIRED AS DETERMINED IN THE FIELD AND APPROVED BY THE ENGINEER THIS RESPONSIBILITY SHALL APPLY THROUGHOUT THE COURSE OF CONSTRUCTION AND UNTIL ALL DISTURBED AREAS HAVE BECOME STABILIZED AND SHALL NOT BE LIMITED TO WET WEATHER PERIODS.
24. CANAL SYSTEM FLOWS MUST BE MAINTAINED AT ALL TIMES, OTHER THAN OUTAGES TO INSTALL OR REMOVE BYPASS CONNECTIONS AND ARE TO BE COORDINATED WITH NID. MAXIMUM ALLOWABLE OUTAGES ARE IDENTIFIED IN SECTION 01550 OF THE CONTRACT SPECIFICATIONS.

Plan Date:	Revision Description	Rev. By	App. By	Date



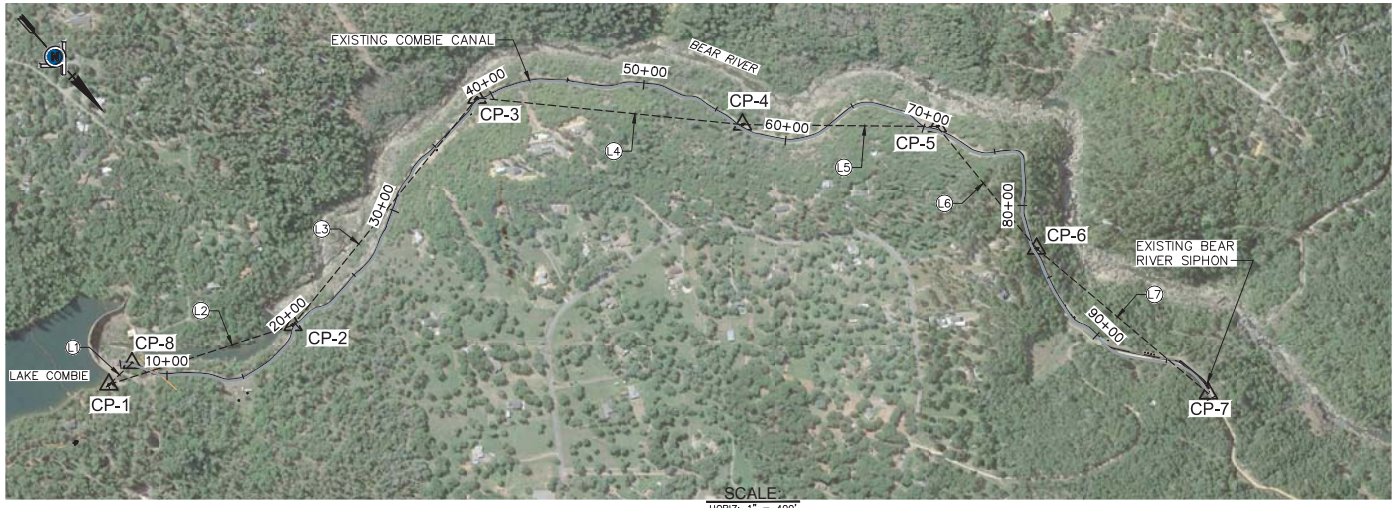
Plan Date:	12/21/2018
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NEVADA IRRIGATION DISTRICT
 1036 WEST MAIN ST. GRASS VALLEY, CA 95945

IMPROVEMENT PLANS FOR
COMBIE PHASE 1
CANAL REPLACEMENT PROJECT
 GENERAL
 GENERAL NOTES

DRAWING NUMBER	G5
SHEET NUMBER	5 of 45



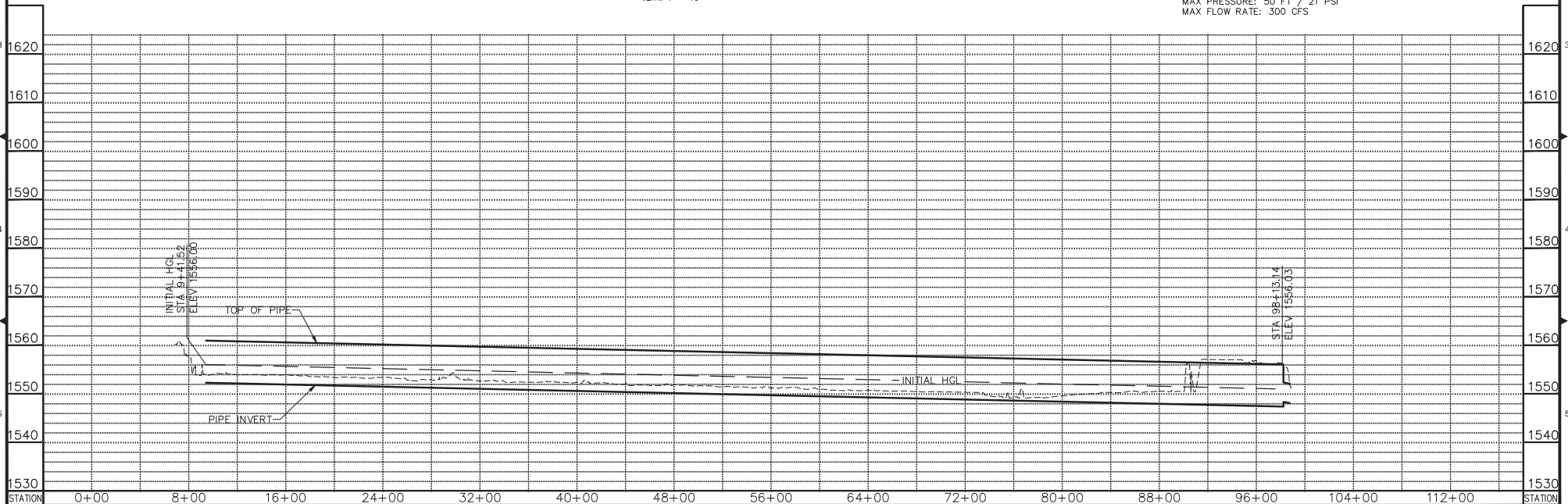
SCALE:
HORIZ: 1" = 400'
VERT: 1" = 10'

SURVEY CONTROL COORDINATE TABLE				
NO.	DESCRIPTION	NORTHING	EASTING	ELEVATION
CP-1	SURVEY CONTROL POINT 303	29960.46	44962.39	1603.23
CP-2	SURVEY CONTROL POINT 804	30456.84	43819.43	1552.44
CP-3	SURVEY CONTROL POINT 803	30140.18	41962.63	1551.36
CP-4	SURVEY CONTROL POINT 302	31399.09	40793.56	1550.87
CP-5	SURVEY CONTROL POINT 802	32236.59	39860.11	1549.96
CP-6	SURVEY CONTROL POINT 801	33249.71	39699.41	1549.85
CP-7	SURVEY CONTROL POINT 301	34681.23	39684.79	1555.35
CP-8	TEMPORARY BENCH MARK 501	29955.27	44759.24	1558.60

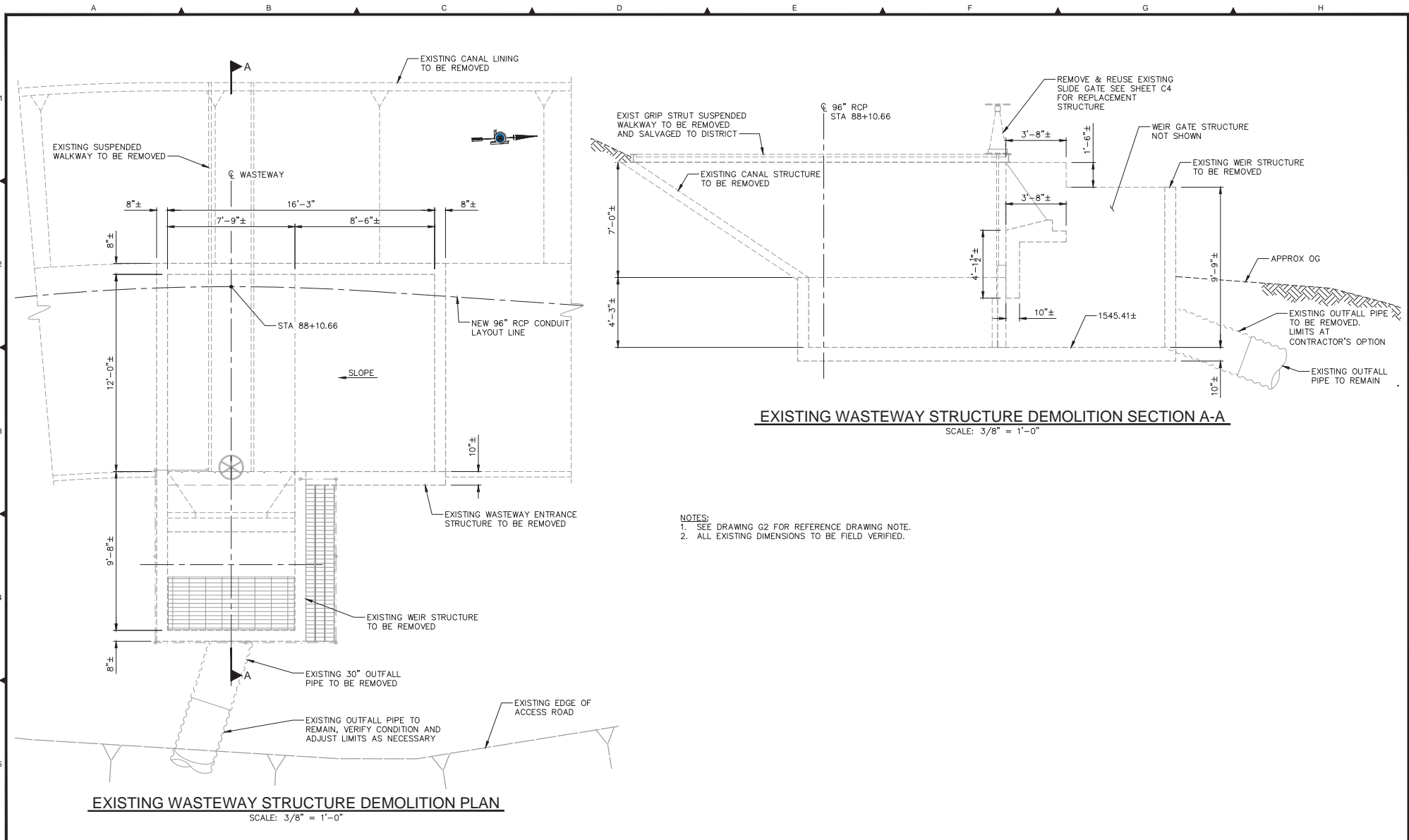
BASIS OF BEARING:
HORIZONTAL AND VERTICAL:
SURVEY GROUND CONTROL PROVIDED
BY NEVADA IRRIGATION DISTRICT
TEMPORARY BENCH MARK "TBM 501"

LINE TABLE		
NO.	DISTANCE	BEARING
L1	203.22'	N 88°32'18.34" E
L2	1246.10'	N 66°31'30.39" W
L3	1883.61'	S 80°19'19.66" W
L4	1718.01'	N 42°52'51.61" W
L5	1254.09'	N 48°06'04.16" W
L6	1013.88'	N 21°3'18.24" E
L7	1447.52'	N 8°31'36.16" W

BASIS OF HYDRAULIC DESIGN
CURRENT PROJECT/GRAVITY CONDITION
MAX HGL @ BOTTOM OF PIPE STA 9+41: 1556 FT
MAX FLOW RATE: 180 CFS
FUTURE PRESSURE CONDITION
MAX HGL @ COMBIE DAM: 1600 FT
MAX PRESSURE: 50 FT / 21 PSI
MAX FLOW RATE: 300 CFS



Plan Date: 12/21/2018 Design By: --- Drawn By: DCP Checked By: DTK	 	 3400 DOUGLAS BOULEVARD, SUITE 190 ROSEVILLE, CA 95661 P: 916.368.9181 - F: 916.368.1308 - www.quincyeng.com	 NEVADA IRRIGATION DISTRICT 1036 WEST MAIN ST. GRASS VALLEY, CA 95945	IMPROVEMENT PLANS FOR COMBIE PHASE 1 CANAL REPLACEMENT PROJECT GENERAL PROJECT CONTROL AND HYDRAULIC PROFILE	DRAWING NUMBER G6 SHEET NUMBER 6 of 45
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- NOTES:
 1. SEE DRAWING G2 FOR REFERENCE DRAWING NOTE.
 2. ALL EXISTING DIMENSIONS TO BE FIELD VERIFIED.

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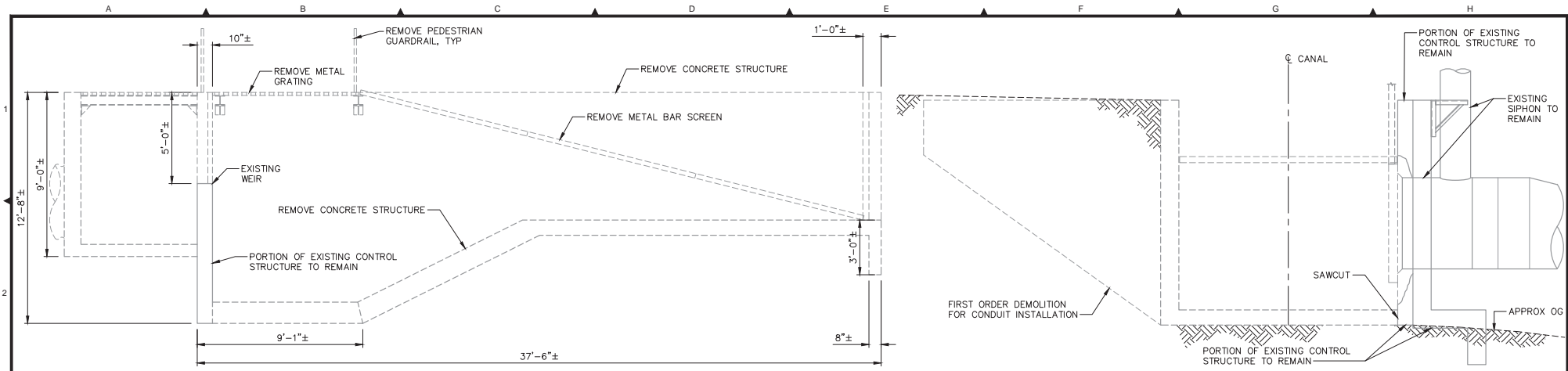
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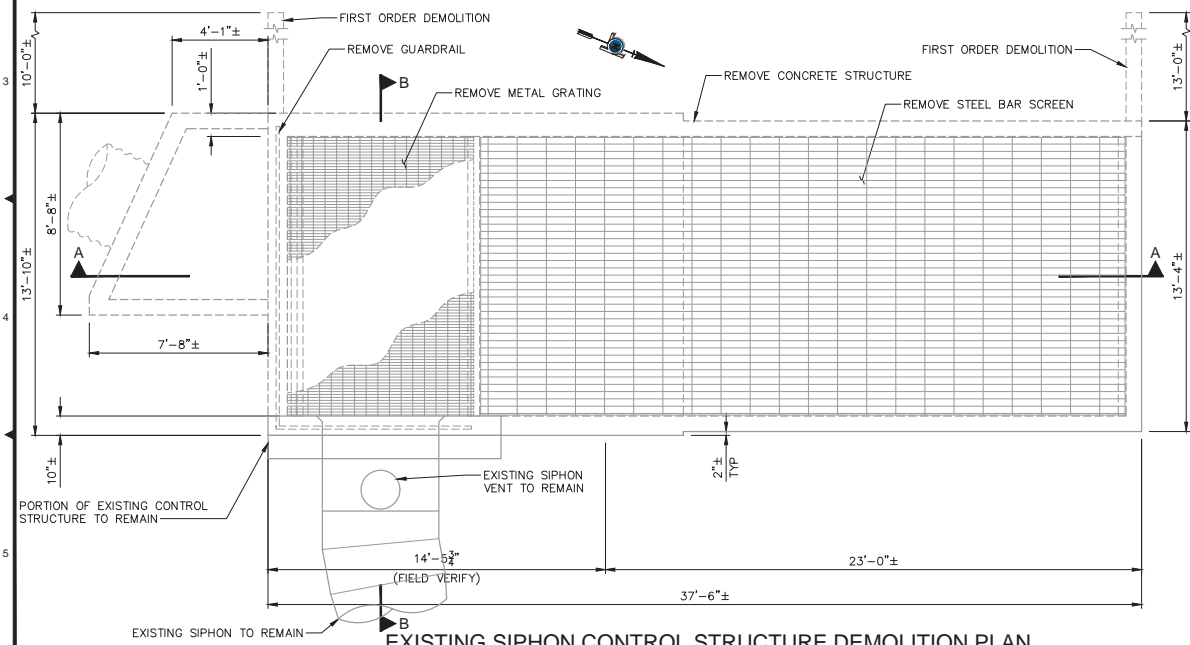
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 1036 WEST MAIN ST. GRASS VALLEY, CA 95945

IMPROVEMENT PLANS FOR
COMBIE PHASE 1 CANAL REPLACEMENT PROJECT
 DEMOLITION
 WASTEWAY STRUCTURE DETAILS

DRAWING NUMBER	D1
SHEET NUMBER	7 of 45



- NOTES:**
 1. SEE DRAWING G2 FOR REFERENCE DRAWING NOTE.
 2. ALL EXISTING DIMENSIONS TO BE FIELD VERIFIED.



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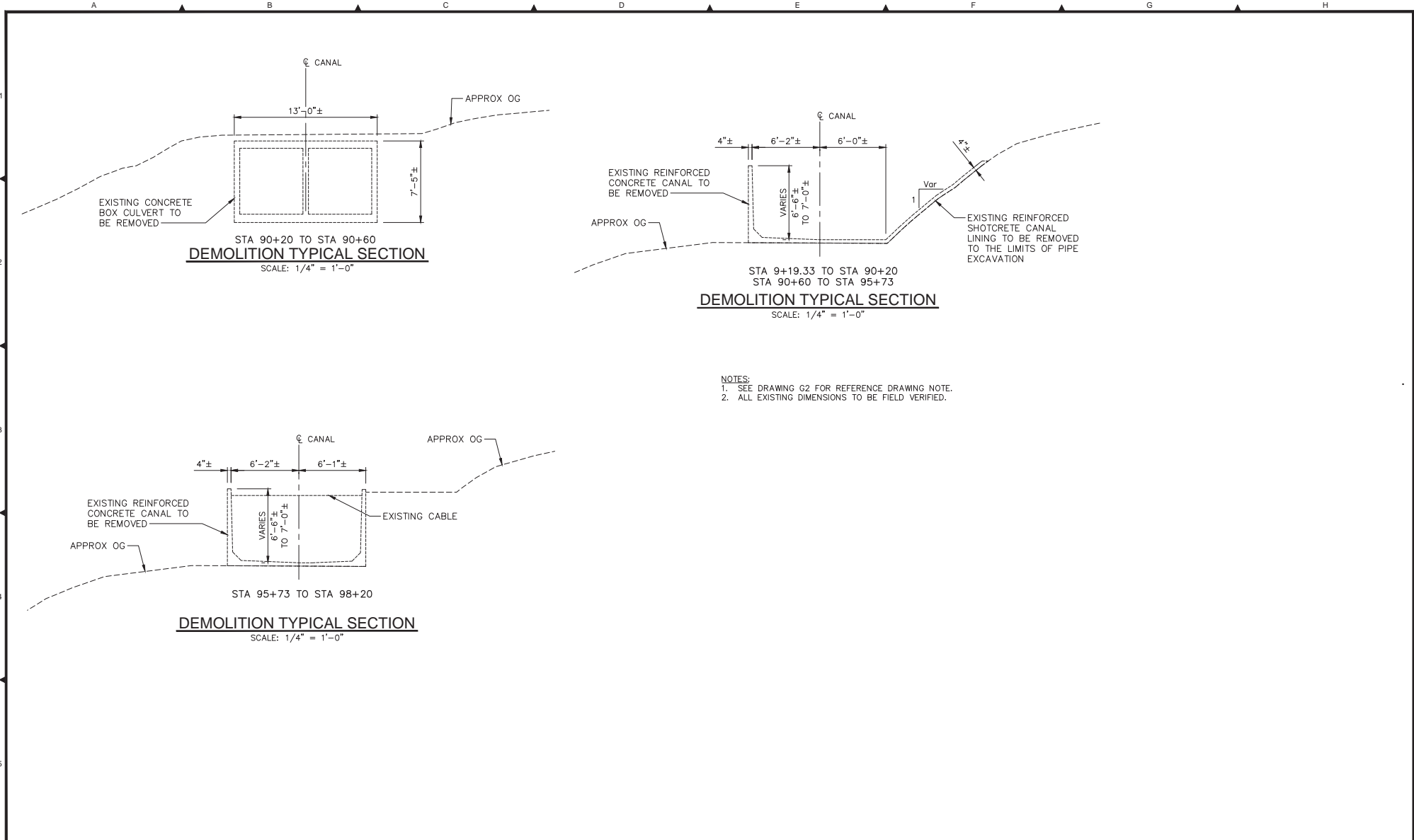
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NVDA IRRIGATION DISTRICT
 1036 WEST MAIN ST. GRASS VALLEY, CA 95945

IMPROVEMENT PLANS FOR
COMBIE PHASE 1
CANAL REPLACEMENT PROJECT
DEMOLITION
 SIPHON CONTROL STRUCTURE DETAILS

DRAWING NUMBER: **D2**
 SHEET NUMBER: **8 of 45**



STA 90+20 TO STA 90+60
DEMOLITION TYPICAL SECTION
SCALE: 1/4" = 1'-0"

STA 9+19.33 TO STA 90+20
STA 90+60 TO STA 95+73
DEMOLITION TYPICAL SECTION
SCALE: 1/4" = 1'-0"

STA 95+73 TO STA 98+20
DEMOLITION TYPICAL SECTION
SCALE: 1/4" = 1'-0"

- NOTES:**
1. SEE DRAWING G2 FOR REFERENCE DRAWING NOTE.
 2. ALL EXISTING DIMENSIONS TO BE FIELD VERIFIED.

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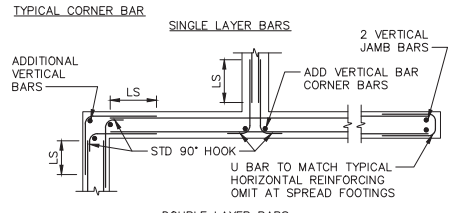
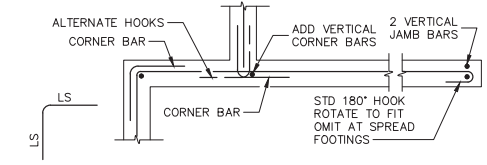
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IMPROVEMENT PLANS FOR
COMBIE PHASE 1
CANAL REPLACEMENT PROJECT
 DEMOLITION
 TYPICAL DEMOLITION SECTIONS

DRAWING NUMBER: **D3**
 SHEET NUMBER: 9 of 45

NOTE:
 DETAILS AND NOTES ON TYPICAL SHEETS SHALL APPLY UNLESS SPECIFICALLY SHOWN ELSEWHERE. DETAILS OF CONSTRUCTION NOT FULLY SHOWN SHALL BE OF THE SAME NATURE AS SHOWN FOR SIMILAR CONDITIONS.

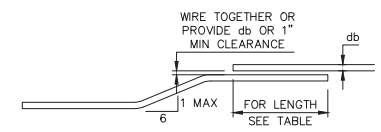


- NOTES:**
1. VERTICAL BAR SIZE TO MATCH TYPICAL WALL REINFORCEMENT
 2. REFER TO DETAIL S208/TYP FOR REQUIRED JAMB REINFORCEMENT
 3. LS INDICATES LAP SPlice LENGTH PER DETAIL S325/TYP
 4. OMIT ADDED VERTICAL BARS AT SPREAD FOOTING REINFORCEMENT
 5. CORNER BARS SIZES AND SPACING TO MATCH TYPICAL HORIZONTAL REINFORCEMENT

FOUNDATION AND WALL REINFORCING

SCALE: NONE

1
--



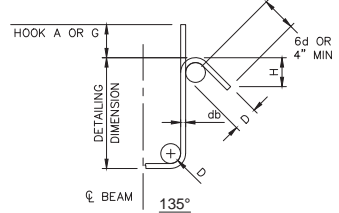
- NOTES:**
1. SPLICES ARE SHOWN IN INCHES AND SHALL CONFORM TO CLASS "B" SPLICES AS PER ACI 318.
 2. SPLICE LENGTHS ASSUME THE MODIFICATION FACTORS OF ACI 318 SECTIONS 12.2 ARE 1.0 FOR BOTTOM BARS & 1.3 FOR TOP BARS. FOR OTHER CONDITIONS PROVIDE SPLICE LENGTHS IN ACCORDANCE WITH ACI 318.
 3. USE THE SPLICE LENGTH GIVEN FOR TOP BARS WHEN MORE THAN 12" OF CONCRETE IS CAST BELOW HORIZONTAL BARS IN THE MEMBER. USE THE SPLICE LENGTH GIVEN FOR BOTTOM BARS FOR ALL OTHER CONDITIONS.
 4. TABLE BASED ON MINIMUM $f'c = 4500$ PSI @ 28 DAYS.

LAP LENGTH									
BAR SIZE	#3	#4	#5	#6	#7	#8	#9	#10	#11
BOTTOM BAR	13"	18"	22"	27"	39"	45"	50"	57"	63"
TOP BAR	17"	23"	29"	35"	51"	58"	66"	74"	82"

REINFORCING BAR SPLICE LENGTH

SCALE: NONE

2
--



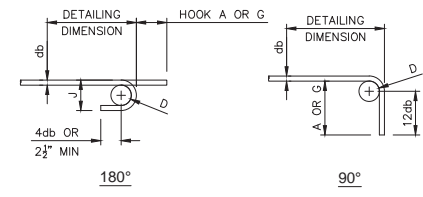
BAR SIZE	D	135° SEISMIC HOOK	
		A OR G	APPROX H
#3	1 1/2"	5"	3 1/2"
#4	2"	5 1/2"	4"
#5	2 1/2"	6"	4 1/4"

- NOTES:**
1. 135 DEGREE COLUMN TIE HOOKS MAY NOT BE BENT TO LESS DIAMETER OF COLUMN VERTICAL BAR ENCLOSED IN HOOK.
 2. INSIDE DIAMETER OF BENDS IN WIRE FABRIC, PLAN OR DEFORMED, FOR STIRRUPS & TIES SHALL BE AT LEAST FOUR WIRE DIAMETERS FOR WIRE LARGER THAN D6 OR W6 & TWO WIRE DIAMETERS FOR ALL OTHER WIRES. BENDS WITH INSIDE DIAMETER OF LESS THAN EIGHT WIRE DIAMETERS SHALL BE LESS THAN FOUR DIAMETERS FROM THE NEAREST WELDED INTERSECTION.

SITRRUP AND TIE HOOKS

SCALE: NONE

3
--



BAR SIZE	D	DIMENSIONS OF STANDARD HOOKS ALL GRADES			
		180 DEGREES		90 DEGREES	
		A OR G	J	A OR G	
#3	2 1/4"	5"	3"	8"	
#4	3"	6"	4"	8"	
#5	3 3/4"	7"	5"	12"	
#6	4 1/2"	8"	6"	1'-0"	
#7	5 1/4"	10"	7"	1'-2"	
#8	6"	11"	8"	1'-4"	
#9	9 1/2"	1'-3"	11 1/2"	1'-7"	
#10	10 3/4"	1'-5"	1'-1 1/4"	1'-10"	
#11	12"	1'-7"	1'-2 3/4"	2'-0"	

STANDARD END HOOKS

SCALE: NONE

4
--

Plan Date:	Revision Description	Rev. By	App. By	Date

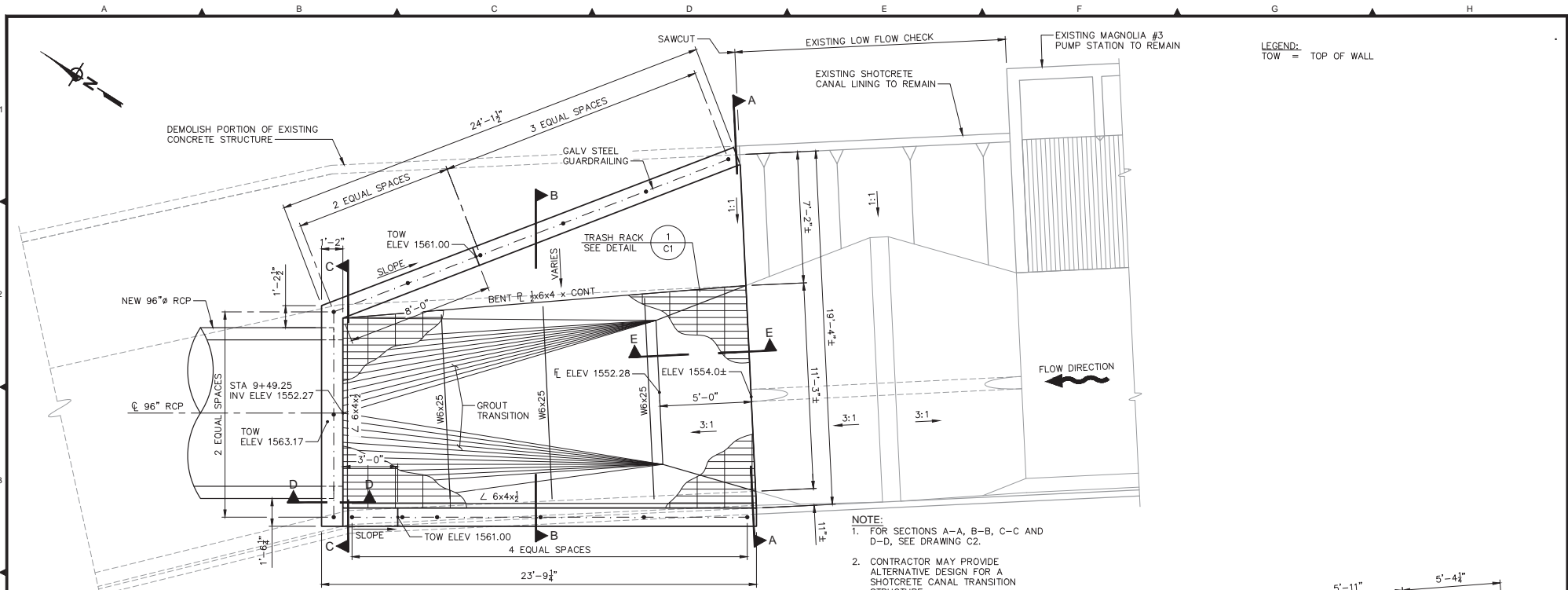
Professional Engineer stamps for D. TODD KOTER (No. 44811, Exp. 3/31/20) and SHAWN T. EBER (No. 54293, Exp. 12/31/19).

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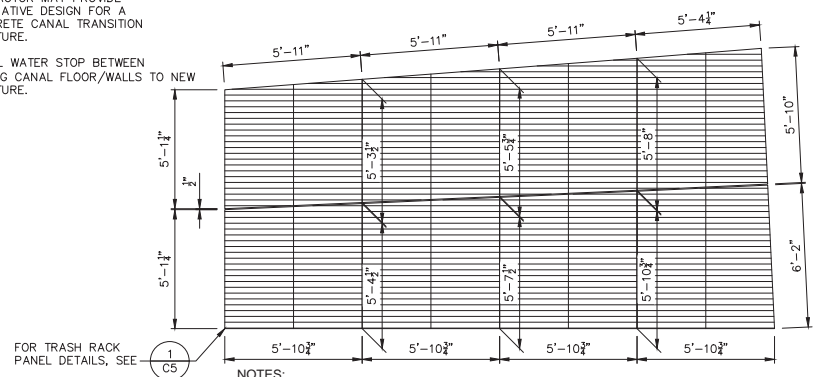
IMPROVEMENT PLANS FOR **COMBIE PHASE 1 CANAL REPLACEMENT PROJECT**
STRUCTURAL
 TYPICAL STRUCTURAL DETAILS

DRAWING NUMBER: **S1**
 SHEET NUMBER: 10 of 45



CANAL TRANSITION STRUCTURE PLAN
SCALE: 3/8" = 1'-0"

- NOTE:
1. FOR SECTIONS A-A, B-B, C-C AND D-D, SEE DRAWING C2.
 2. CONTRACTOR MAY PROVIDE ALTERNATIVE DESIGN FOR A SHOTCRETE CANAL TRANSITION STRUCTURE.
 3. INSTALL WATER STOP BETWEEN EXISTING CANAL FLOOR/WALLS TO NEW STRUCTURE.



- NOTE:
1. THIS VIEW IS SHOWN NORMAL TO THE SLOPE OF THE TRASH RACK.
 2. FIELD VERIFY INLET STRUCTURE DIMENSION PRIOR TO FABRICATION OF TRASH RACK PANELS.

TRASH RACK PANEL LAYOUT
SCALE: 1/2" = 1'-0"

Plan Date:	Revision Description	Rev.	By	App. By	Date

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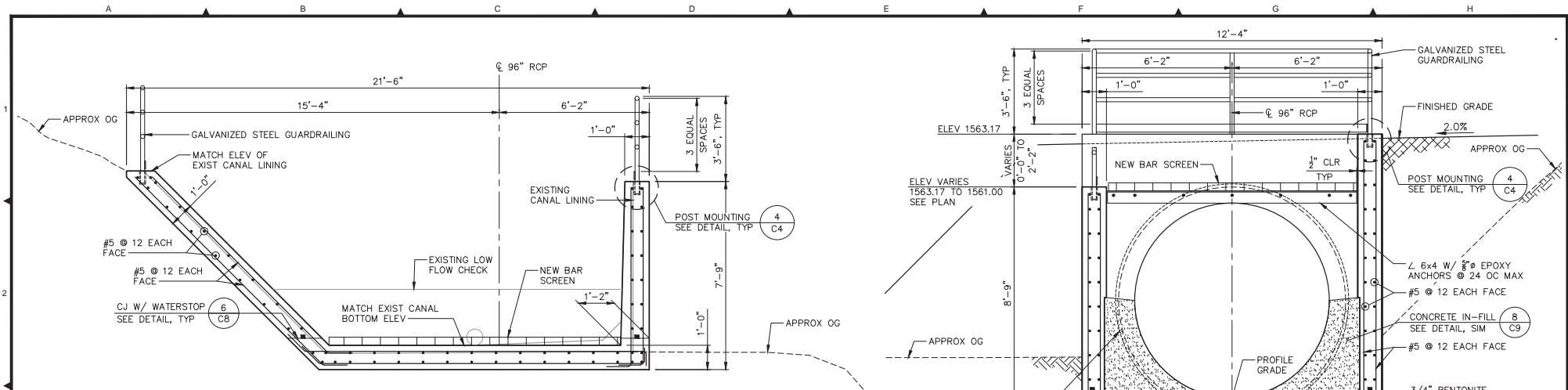
Plan Date: 12/21/2018
 Design By: STJ
 Drawn By: DCP
 Checked By: DTK

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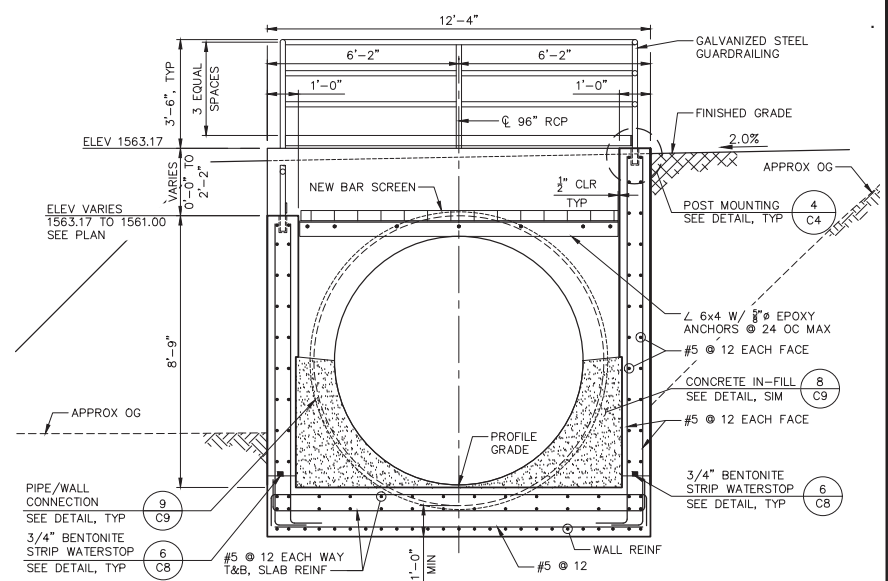
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IMPROVEMENT PLANS FOR
COMBIE PHASE 1
CANAL REPLACEMENT PROJECT
 PIPELINE DETAILS
 TRANSITION STRUCTURE 1

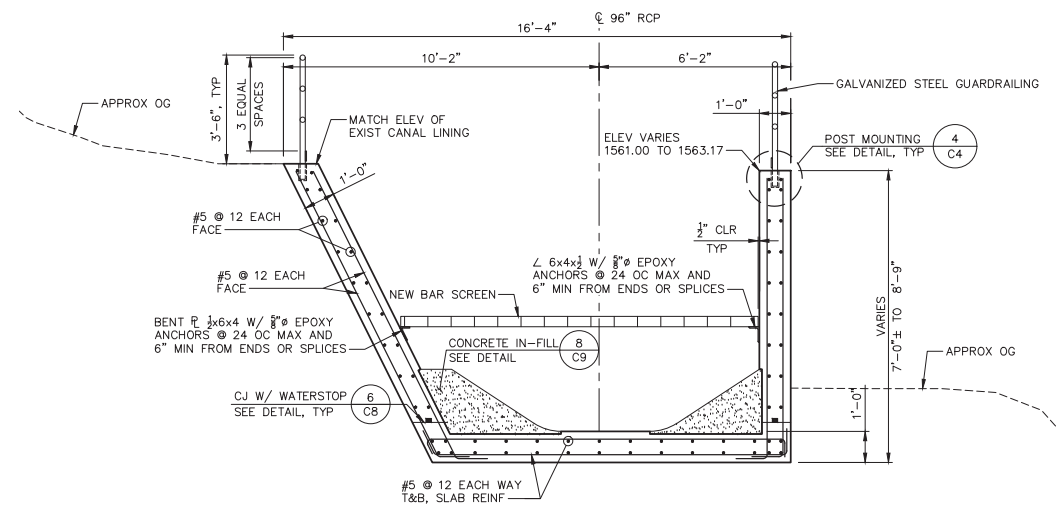
DRAWING NUMBER	C1
SHEET NUMBER	11 of 45



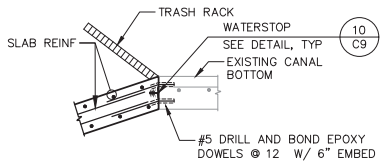
SECTION A-A
SCALE: 1/2" = 1'-0"



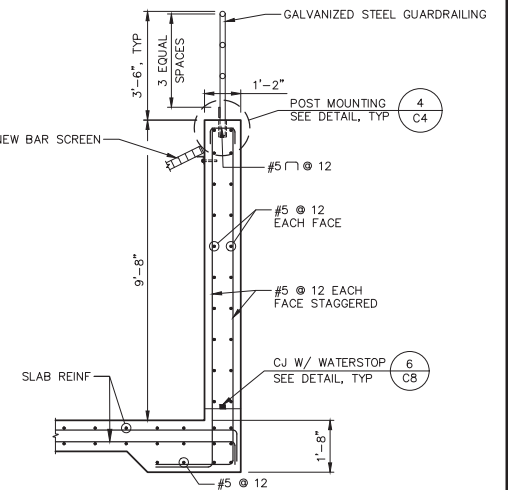
SECTION C-C
SCALE: 1/2" = 1'-0"



SECTION B-B
SCALE: 1/2" = 1'-0"



SECTION E-E
SCALE: 1/2" = 1'-0"



SECTION D-D
SCALE: 1/2" = 1'-0"

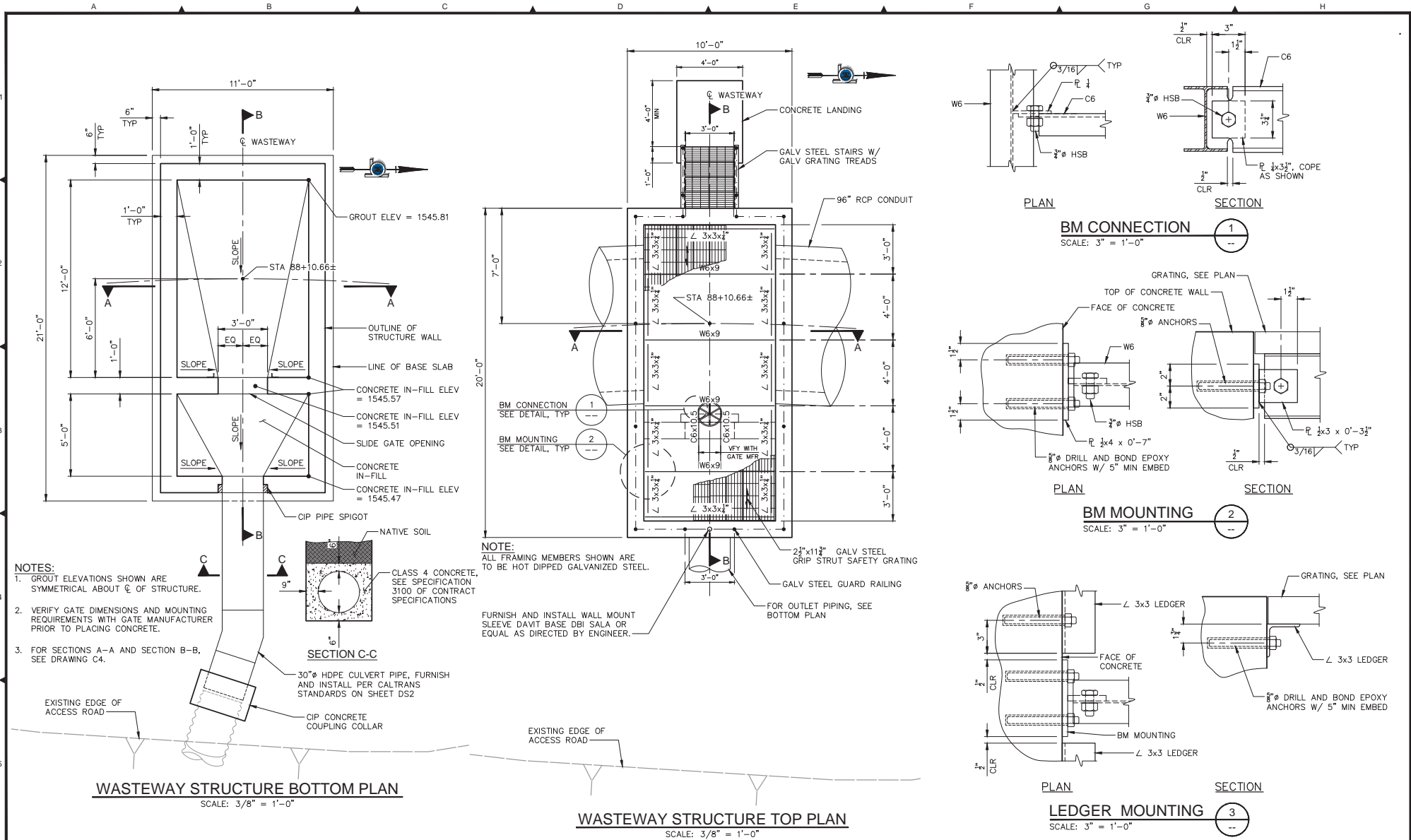
Plan Date:	Revision Description	Rev. By:	App. By:	Date

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IMPROVEMENT PLANS FOR
COMBIE PHASE 1
CANAL REPLACEMENT PROJECT
PIPELINE DETAILS
 TRANSITION STRUCTURE 2

DRAWING NUMBER: **C2**
 SHEET NUMBER: 12 of 45



- NOTES:**
1. GROUT ELEVATIONS SHOWN ARE SYMMETRICAL ABOUT \bar{C} OF STRUCTURE.
 2. VERIFY GATE DIMENSIONS AND MOUNTING REQUIREMENTS WITH GATE MANUFACTURER PRIOR TO PLACING CONCRETE.
 3. FOR SECTIONS A-A AND SECTION B-B, SEE DRAWING C4.

NOTE:
ALL FRAMING MEMBERS SHOWN ARE TO BE HOT DIPPED GALVANIZED STEEL.

FURNISH AND INSTALL WALL MOUNT SLEEVE DAVIT BASE DBI SALA OR EQUAL AS DIRECTED BY ENGINEER.

Plan Date:	Revision Description	Rev.	By	App. By	Date



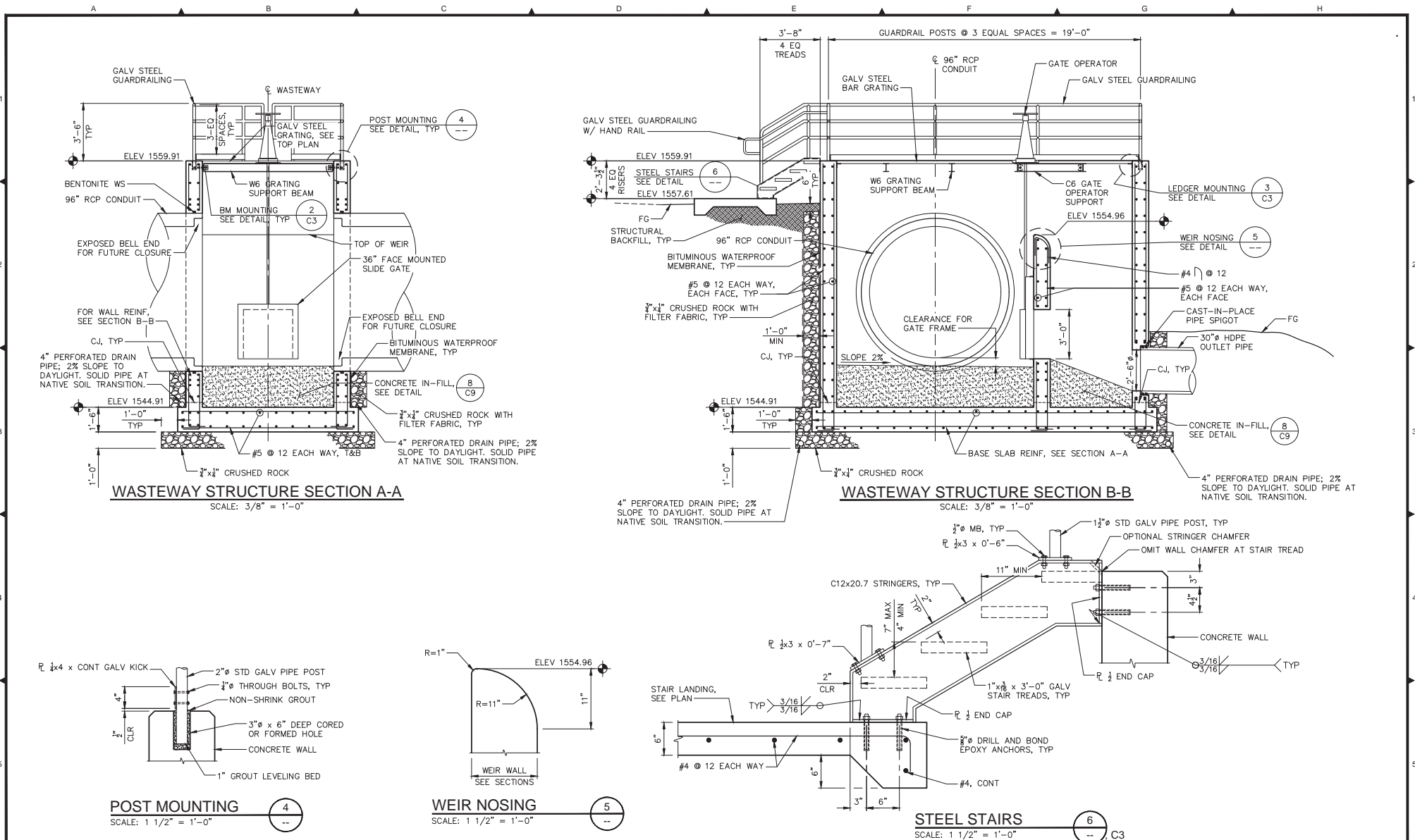
Plan Date: 12/21/2018
 Design By: STJ
 Drawn By: DCP
 Checked By: DTK

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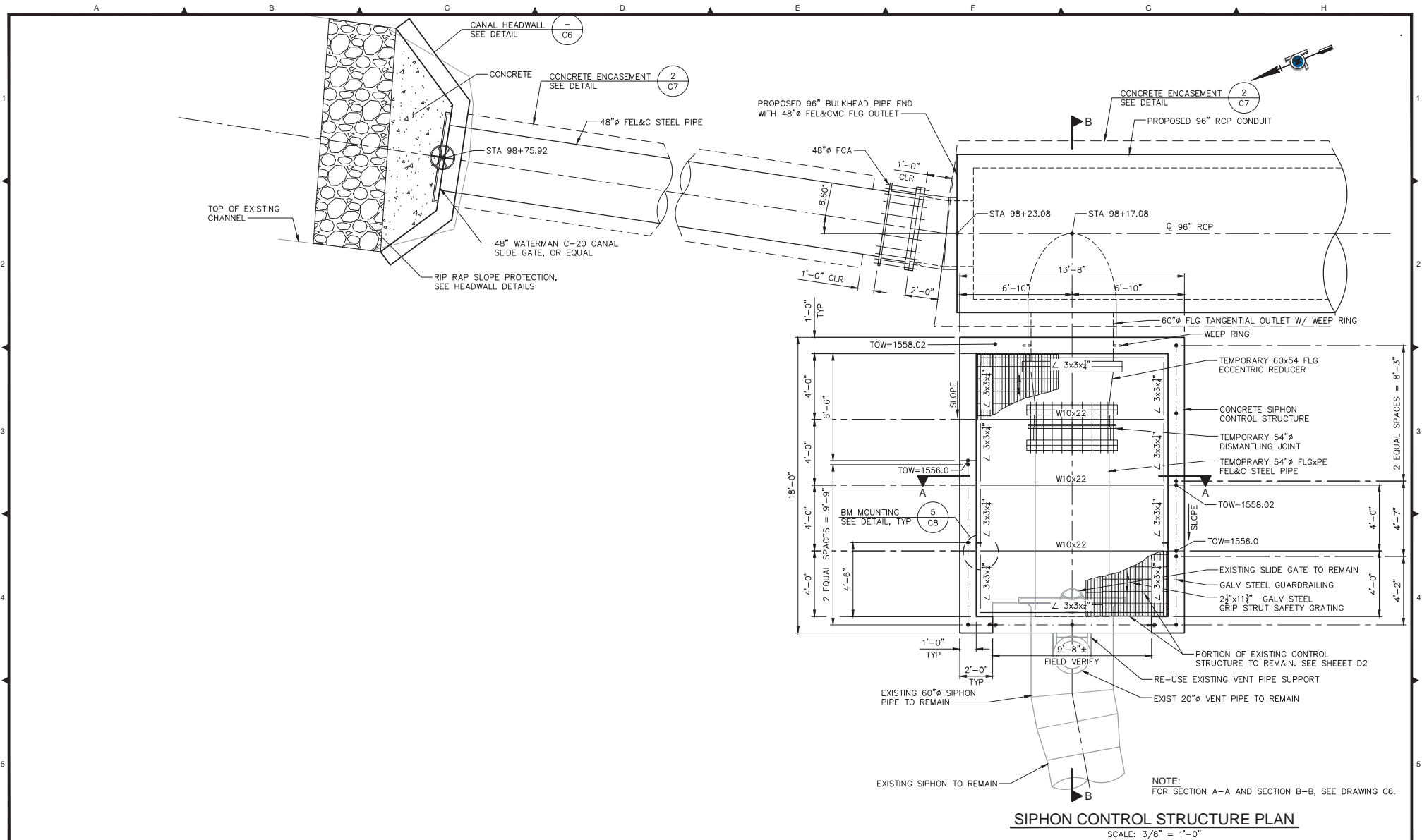
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IMPROVEMENT PLANS FOR
COMBLE PHASE 1 CANAL REPLACEMENT PROJECT
 PIPELINE DETAILS
 WASTEWAY STRUCTURE 1

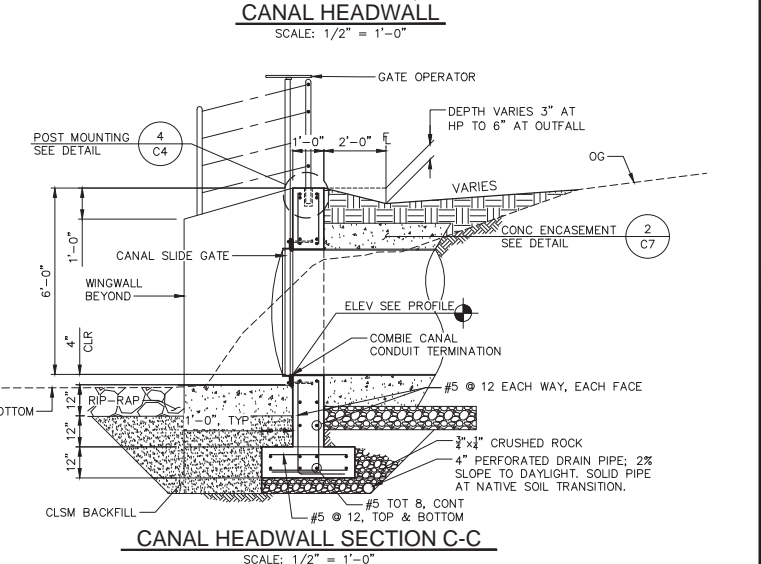
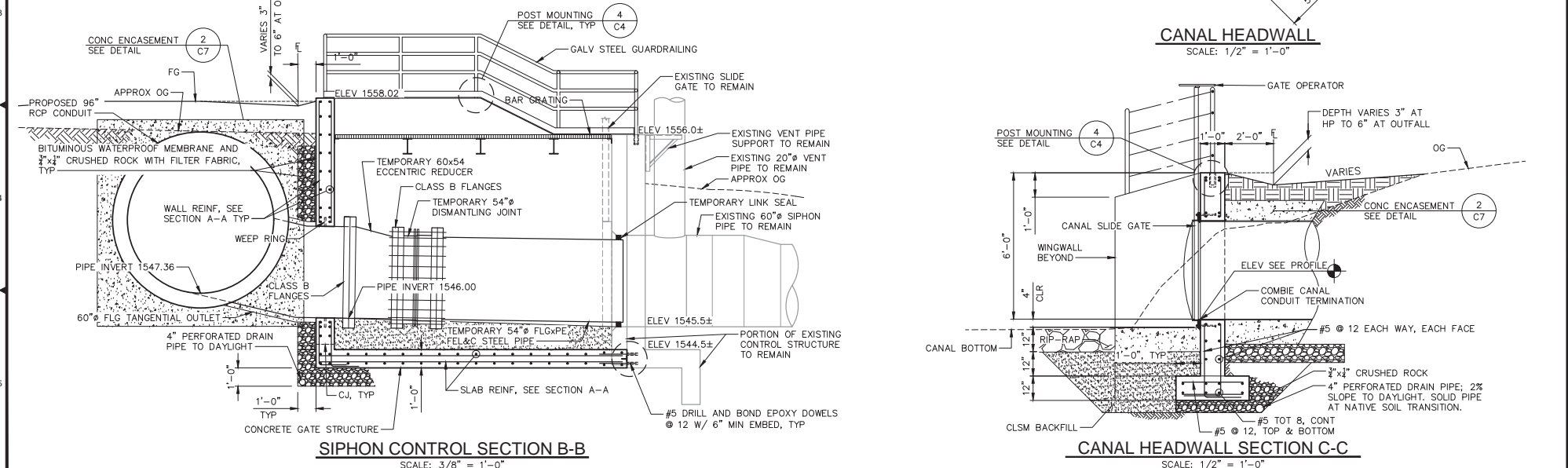
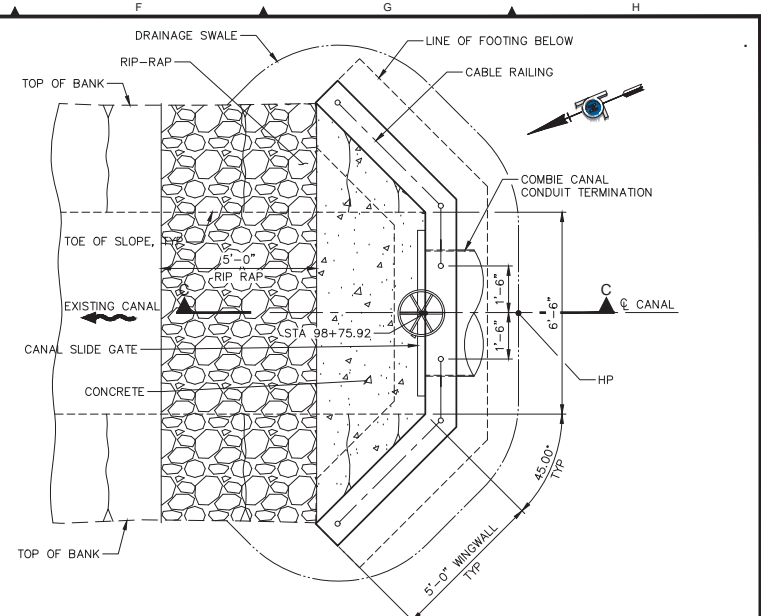
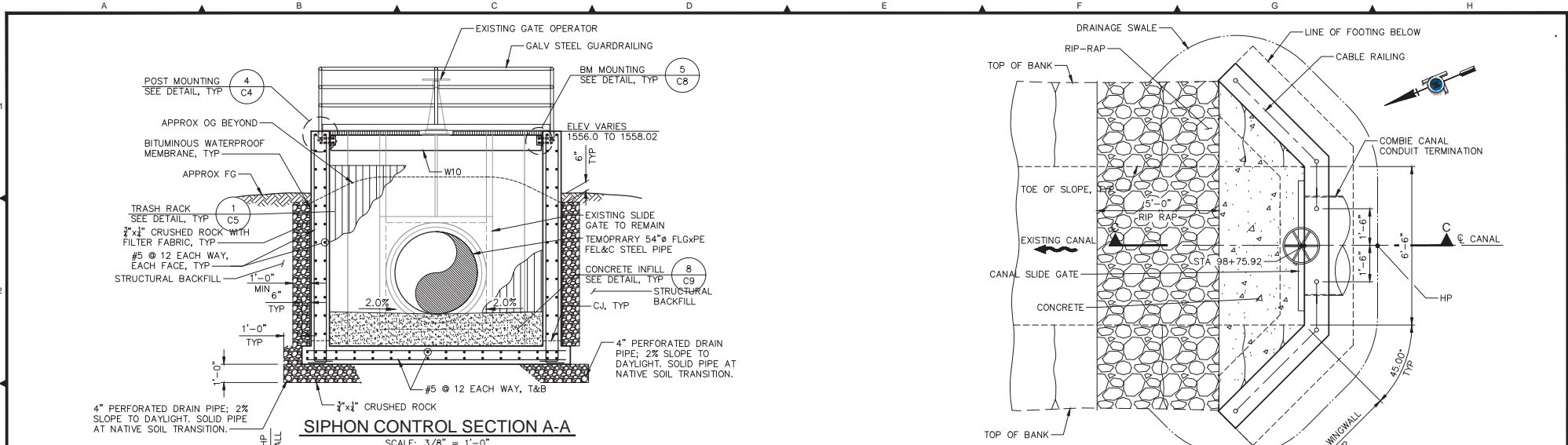
DRAWING NUMBER	C3
SHEET NUMBER	13 of 45



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										SHEET NUMBER 14 of 45



Plan Date: Revision Description Rev. By App. By Date	Plan Date: 12/21/2018 Design By: STJ Drawn By: DCP Checked By: DTK	 	 <p>3400 DOUGLAS BOULEVARD, SUITE 190 ROSEVILLE, CA 95661 P: 916.368.9181 - F: 916.368.1308 - www.quincyceng.com</p>	 <p>NEVADA IRRIGATION DISTRICT 1036 WEST MAIN ST. GRASS VALLEY, CA 95945</p>	IMPROVEMENT PLANS FOR COMBIE PHASE 1 CANAL REPLACEMENT PROJECT PIPELINE DETAILS SIPHON CONTROL STRUCTURE 1	DRAWING NUMBER C5 SHEET NUMBER 15 of 45
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Plan Date:	Revision Description	Rev. By:	App. By:	Date

TOOD KOTES
44811
3/31/20

SHAMIN T. JEE
54293
12/31/19

Plan Date: 12/21/2018
Design By: STJ
Drawn By: DCP
Checked By: DTK

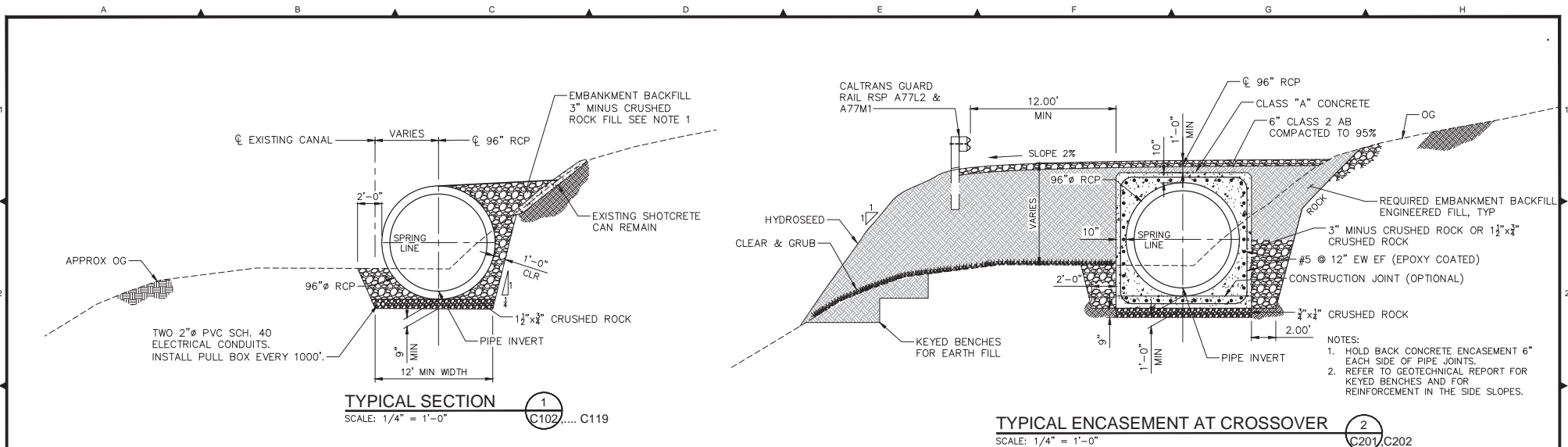
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IMPROVEMENT PLANS FOR
COMBIE PHASE 1
CANAL REPLACEMENT PROJECT
PIPELINE DETAILS
SIPHON CONTROL STRUCTURE 2

DRAWING NUMBER: **C6**
SHEET NUMBER: **C6**
16 of 45



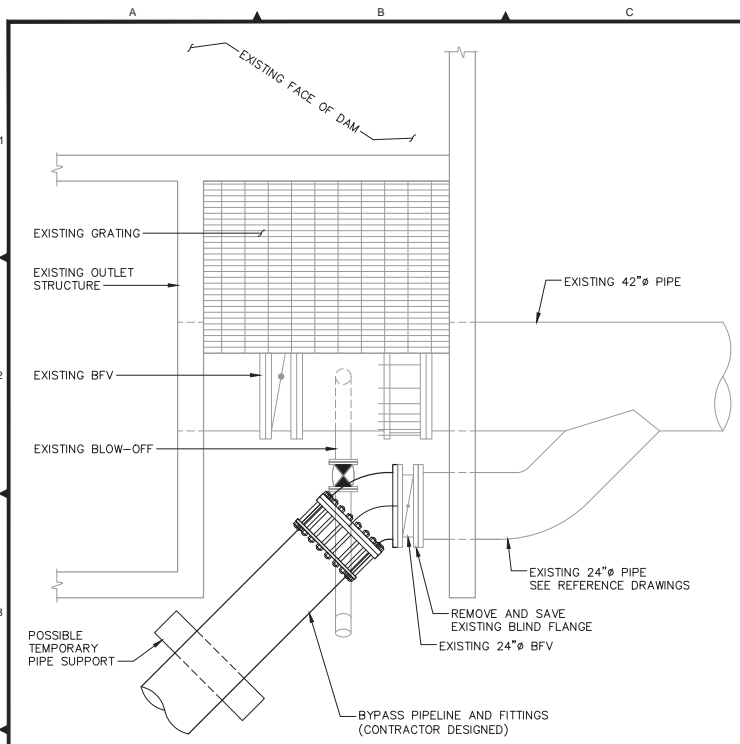
NOTE:
 1. EMBANKMENT BACKFILL (ABOVE SPRINGLINE) IS OPTIONAL UNLESS OTHERWISE SHOWN ON DRAWINGS.

ENCASEMENT LOCATIONS

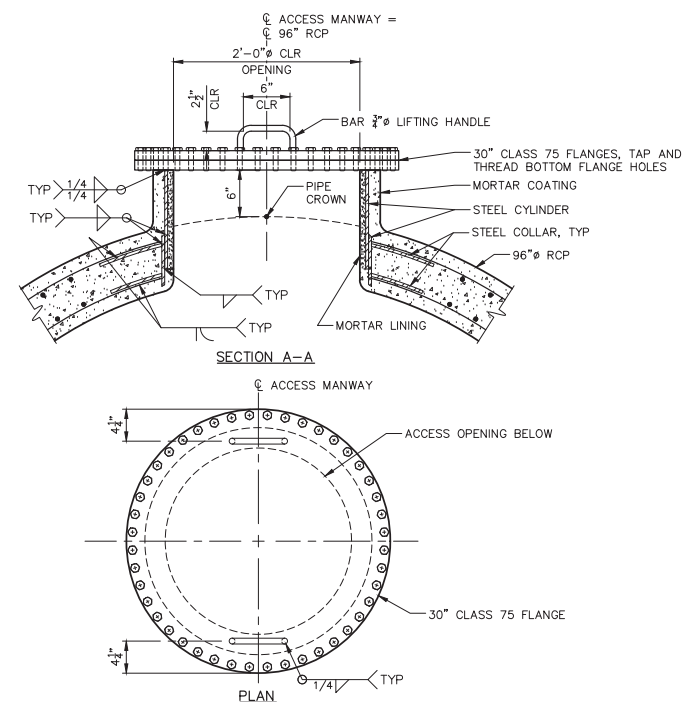
CROSSOVER LOCATION	APPROXIMATE BEGINNING TO END STATIONS*
1	STA 9+42.52 TO STA 10+99.84
2	STA 13+06.86 TO STA 15+01.06
3	STA 89+63.31 TO STA 91+35.76
4	STA 96+80.87 TO STA 98+24.10
5	STA 98+26.61 TO STA 98+74.92

*BEGIN ENCASEMENT OF RCP ONE FOOT DOWNSTREAM OF RCP JOINT AND END ENCASEMENT ONE FOOT UPSTREAM FROM RCP JOINT.

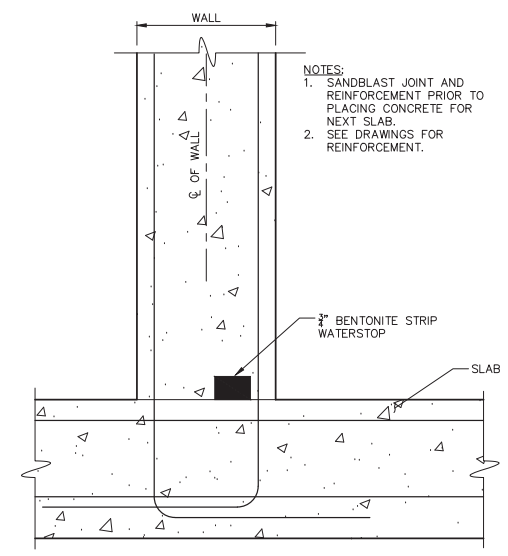
Plan Date: Revision Description Rev. By App. By Date		Plan Date: 12/21/2018 Design By: STJ Drawn By: DCP Checked By: DTK	<p>QUINCY ENGINEERING 3400 DOUGLAS BOULEVARD, SUITE 190 ROSEVILLE, CA 95661 P: 916.368.9181 - F: 916.368.1308 - www.quincyceng.com</p>	<p>NEVADA IRRIGATION DISTRICT 1036 WEST MAIN ST. GRASS VALLEY, CA 95945</p>	<p>IMPROVEMENT PLANS FOR COMBIE PHASE 1 CANAL REPLACEMENT PROJECT PIPELINE DETAILS TYPICAL TRENCH SECTIONS</p>	DRAWING NUMBER C7 SHEET NUMBER 17 of 45
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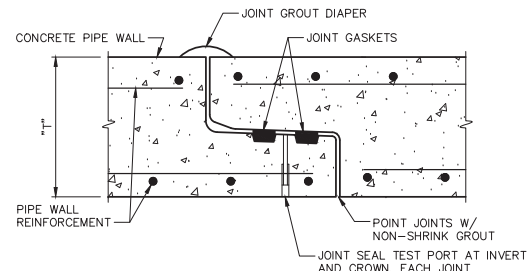
BYPASS CONNECTION (2)
SCALE: 1/2" = 1'-0"
C101



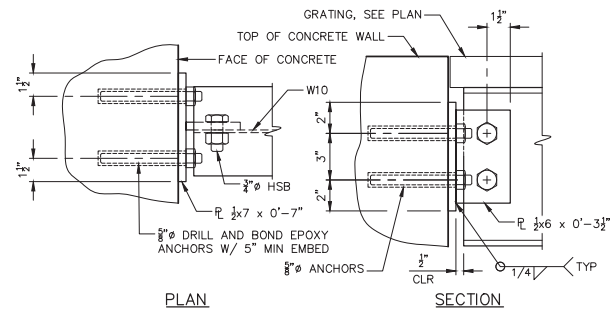
ACCESS MANWAY (3)
SCALE: 1 1/2" = 1'-0"
C102...C118



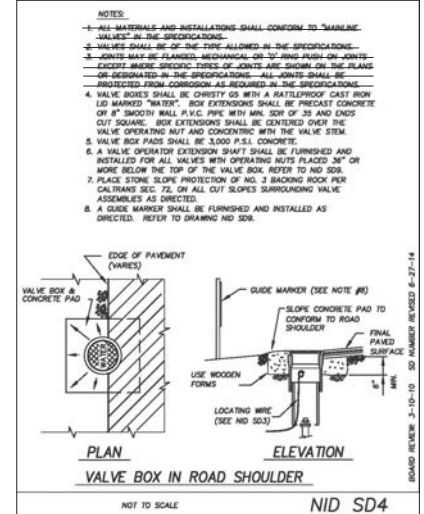
CONSTRUCTION JOINT WITH WATERSTOP (6)
SCALE: 3" = 1'-0"
C2



PIPE JOINT DETAIL (4)
SCALE: 3" = 1'-0"



BM MOUNTING (5)
SCALE: 3" = 1'-0"
C5, C6



VALVE BOX IN ROAD SHOULDER
NID SD4

- NOTES:**
1. ALL MATERIALS AND INSTALLATIONS SHALL CONFORM TO "MAINTENANCE VALVES" IN THE SPECIFICATIONS.
 2. VALVES SHALL BE OF THE TYPE ALLOWED IN THE SPECIFICATIONS.
 3. JOINTS MAY BE FLANGED, MECHANICAL OR TYPING-PUSH-ON JOINTS EXCEPT WHERE SPECIFIED. JOINTS ARE SHOWN ON THE PLANS OR SPECIFIED IN THE SPECIFICATIONS. ALL JOINTS SHALL BE PROTECTED FROM CORROSION AS REQUIRED IN THE SPECIFICATIONS.
 4. VALVE BOXES SHALL BE CONSTRUCTED WITH A WATERPROOF CAST IRON LID MARKED "WATER". BOX EXTENSIONS SHALL BE PRECAST CONCRETE OF 3" THICKNESS SHALL P.V.C. PIPE WITH MIN. SIZE OF 3/8" AND ENDS CUT SQUARE. BOX EXTENSIONS SHALL BE CENTERED OVER THE VALVE OPERATING NUT AND CONCENTRIC WITH THE VALVE STEM.
 5. VALVE BOX PADS SHALL BE 3,000 P.S.I. CONCRETE.
 6. A VALVE OPERATOR EXTENSION SHAFT SHALL BE FURNISHED AND INSTALLED FOR ALL VALVES WITH OPERATING NUTS PLACED 36" OR MORE BELOW THE TOP OF THE VALVE BOX. REFER TO NID SD3.
 7. PLACE STONE SLOPE PROTECTION OF NO. 3 BACKING ROCK PER CALTRANS SEC. 72. OR ALL CUT SLOPES SURROUNDING VALVE ASSEMBLY AS DIRECTED.
 8. A GUIDE MARKER SHALL BE FURNISHED AND INSTALLED AS DIRECTED. REFER TO DRAWING NID SD3.

Plan Date:	Revision Description	Rev. By:	App. By:	Date
12/21/2018				

Plan Date: 12/21/2018
 Design By: STJ
 Drawn By: DCP
 Checked By: DTK

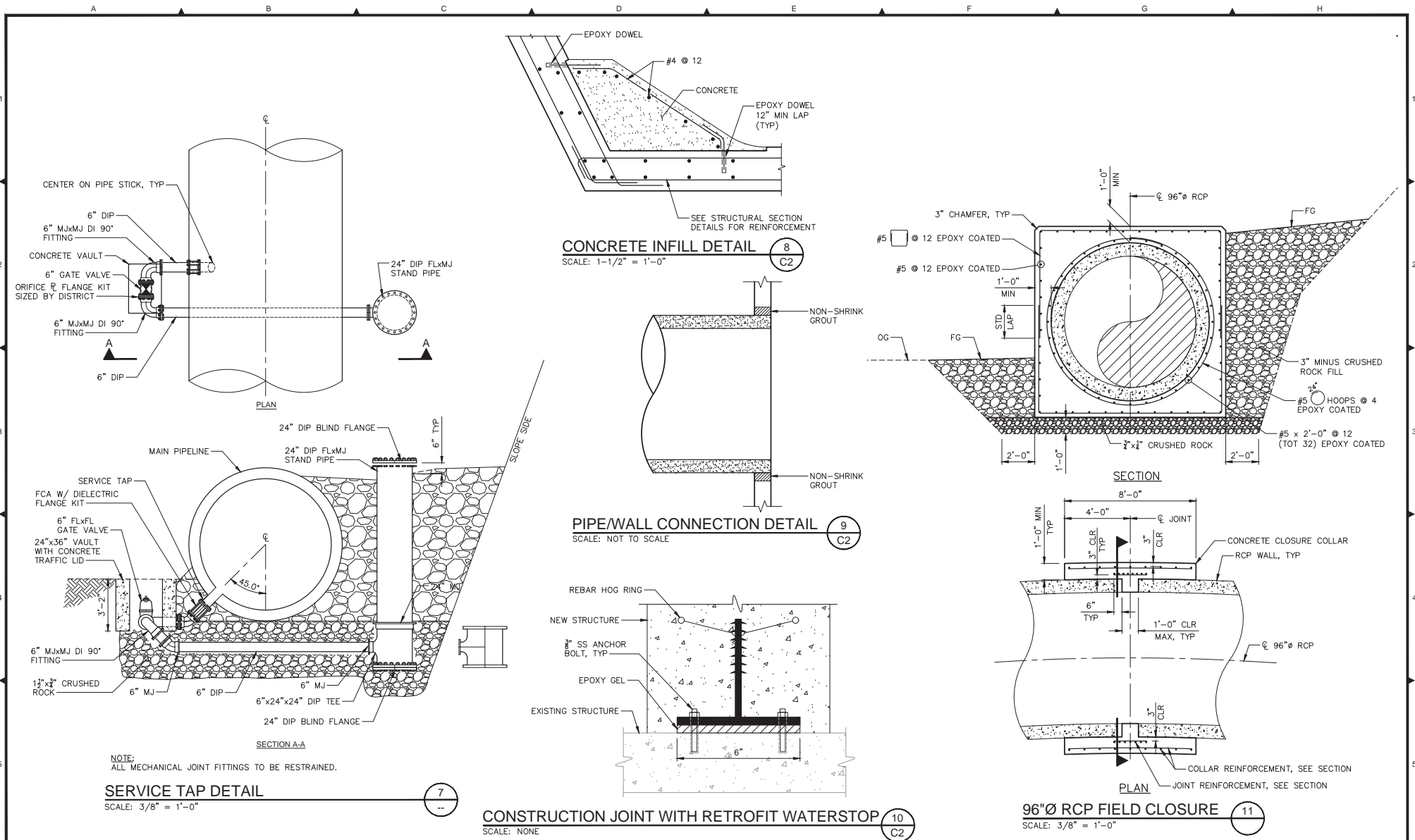
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IMPROVEMENT PLANS FOR COMBIE PHASE 1 CANAL REPLACEMENT PROJECT
PIPELINE DETAILS
 MISCELLANEOUS 1

DRAWING NUMBER: **C8**
 SHEET NUMBER: **18 of 45**



NOTE:
ALL MECHANICAL JOINT FITTINGS TO BE RESTRAINED.

Plan Date:	Revision Description	Rev. By:	App. By:	Date

Professional Engineer Seal: SHAWN T. JONES, No. 44811, Exp. 3/31/20.

Professional Engineer Seal: SHAWN T. JONES, No. 54293, Exp. 12/31/19.

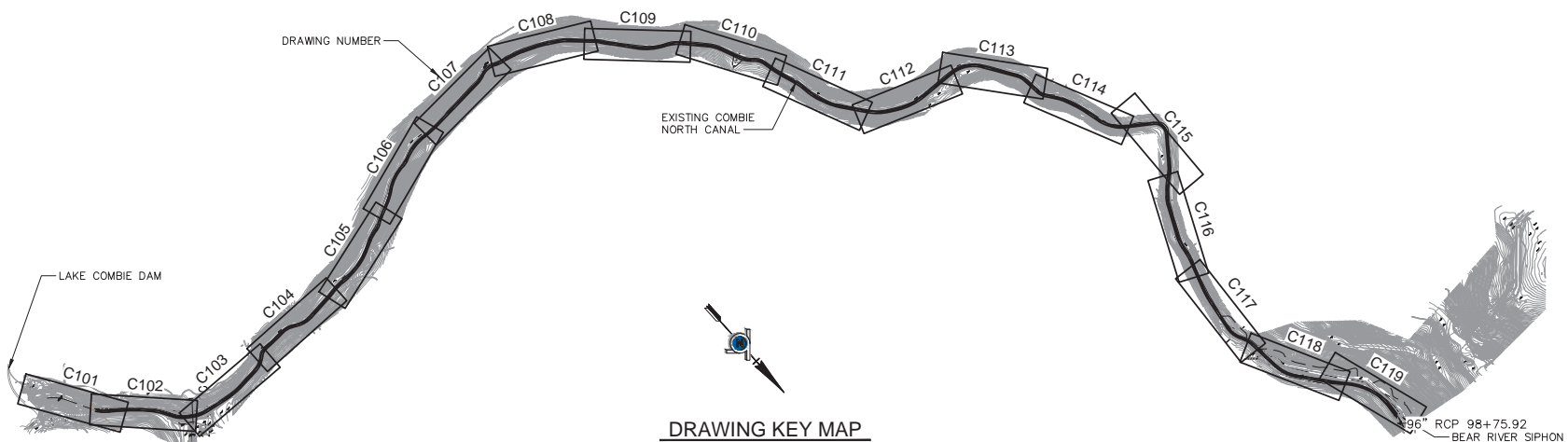
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IMPROVEMENT PLANS FOR COMBIE PHASE 1 CANAL REPLACEMENT PROJECT
 PIPELINE DETAILS
 MISCELLANEOUS 2

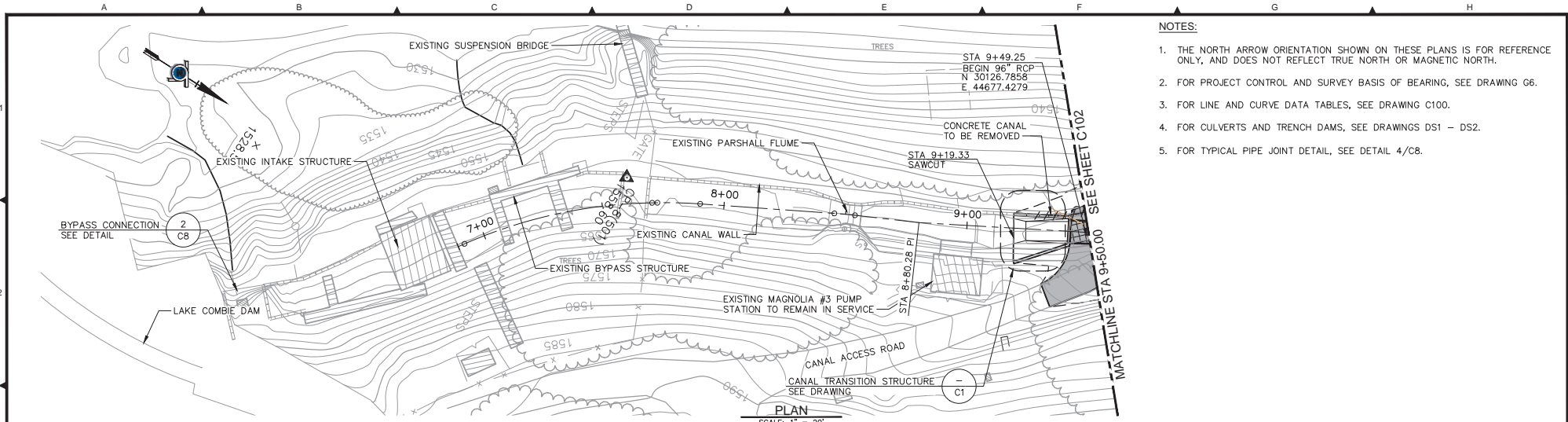
DRAWING NUMBER: C9
 SHEET NUMBER: 19 of 45

LINE TABLE			LINE TABLE			LINE TABLE			CURVE TABLE				CURVE TABLE				CURVE TABLE												
NO.	BEARING	DISTANCE	NO.	BEARING	DISTANCE	NO.	BEARING	DISTANCE	NO.	R	Δ	T	L	NO.	R	Δ	T	L	NO.	R	Δ	T	L	NO.	R	Δ	T	L	
L3	N 41°46'05.78" W	24.49'	L20	N 46°53'32.10" W	134.66'	L37	N 31°10'16.87" W	25.47'	C2	170.00'	12°55'22.96"	19.25'	38.34'	C25	285.14'	31°11'05.73"	79.57'	155.20'	C48	181.22'	54°20'53.45"	93.03'	171.89'	C48	181.22'	54°20'53.45"	93.03'	171.89'	
L4	N 54°41'28.74" W	9.06'	L21	N 38°53'55.57" W	119.53'	L38	N 55°19'56.77" W	149.24'	C3	1000.00'	11°00'55.71"	96.43'	192.26'	C26	500.00'	8°55'10.53"	39.00'	77.84'	C49	87.45'	27°17'07.12"	21.22'	41.64'	C49	87.45'	27°17'07.12"	21.22'	41.64'	
L5	N 43°40'33.03" W	29.16'	L22	N 43°08'32.26" W	128.25'	L39	N 37°25'04.13" E	162.10'	C4	184.00'	13°04'53.09"	21.10'	42.01'	C27	137.50'	19°39'41.01"	23.83'	47.18'	C50	75.62'	30°48'05.56"	20.83'	40.65'	C50	75.62'	30°48'05.56"	20.83'	40.65'	
L6	N 30°35'39.94" W	67.79'	L23	N 23°24'00.24" W	106.20'	L40	N 41°51'33.42" E	35.57'	C5	138.00'	22°25'35.62"	27.36'	54.02'	C28	100.67'	50°32'15.29"	47.52'	88.79'	C51	211.07'	14°16'43.91"	26.44'	52.60'	C51	211.07'	14°16'43.91"	26.44'	52.60'	
L7	N 80°37'16.88" W	119.27'	L24	N 48°02'29.12" W	17.16'	L41	N 25°15'10.47" E	164.85'	C6	611.52'	4°20'21.56"	23.17'	46.31'	C29	137.50'	20°05'02.99"	24.35'	48.20'	C52	522.05'	8°13'52.54"	37.56'	75.00'	C52	522.05'	8°13'52.54"	37.56'	75.00'	
L8	S 85°04'51.82" W	115.06'	L25	N 11°49'00.65" W	33.46'	L42	N 08°34'27.08" E	38.59'	C7	197.68'	23°15'39.76"	40.69'	80.25'	C30	137.50'	8°18'19.70"	9.98'	19.93'	C53	150.00'	16°55'39.34"	22.32'	44.32'	C53	150.00'	16°55'39.34"	22.32'	44.32'	
L9	N 63°41'13.76" W	38.38'	L26	N 19°40'32.71" W	70.00'	L43	N 17°55'48.46" E	154.06'	C8	348.80'	14°17'51.31"	43.75'	87.04'	C31	346.11'	8°11'41.36"	24.79'	49.50'	C54	159.12'	24°09'39.91"	34.05'	67.10'	C54	159.12'	24°09'39.91"	34.05'	67.10'	
L10	S 83°54'33.81" W	138.65'	L27	N 08°29'25.06" W	34.55'	L44	N 08°23'42.42" E	164.80'	C9	135.88'	36°49'03.73"	45.22'	87.31'	C32	550.00'	7°15'15.00"	34.86'	69.63'	C55	60.70'	92°45'00.90"	63.68'	98.26'	C55	60.70'	92°45'00.90"	63.68'	98.26'	
L11	S 86°20'47.98" W	13.96'	L28	N 23°30'12.37" W	39.10'	L45	N 26°43'58.43" W	26.27'	C10	70.00'	42°42'52.73"	27.37'	52.19'	C33	200.00'	12°50'09.56"	22.50'	44.81'	C56	229.84'	15°55'57.50"	32.16'	63.91'	C56	229.84'	15°55'57.50"	32.16'	63.91'	
L12	S 85°07'07.13" W	46.93'	L29	N 37°39'39.64" W	146.89'	L46	N 05°08'00.06" W	163.40'	C11	1121.90'	5°55'41.26"	58.09'	116.08'	C34	200.00'	12°08'00.61"	21.26'	42.35'	C57	320.00'	11°29'28.21"	32.20'	64.18'	C57	320.00'	11°29'28.21"	32.20'	64.18'	
L13	S 63°15'45.86" W	65.41'	L30	N 61°07'25.33" W	45.33'				C12	101.15'	31°15'46.69"	28.30'	55.19'	C35	300.00'	8°46'18.78"	23.01'	45.93'	C58	152.70'	16°36'22.94"	22.28'	44.26'	C58	152.70'	16°36'22.94"	22.28'	44.26'	
L14	S 64°19'12.59" W	92.58'	L31	N 87°35'08.99" W	187.72'				C13	131.82'	32°24'12.43"	38.30'	74.55'	C36	275.00'	4°37'54.69"	11.12'	22.23'	C59	227.46'	16°40'43.39"	33.34'	66.21'	C59	227.46'	16°40'43.39"	33.34'	66.21'	
L15	S 53°09'36.72" W	23.58'	L32	N 33°14'15.54" W	186.84'				C14	275.00'	6°16'38.21"	15.08'	30.13'	C37	299.39'	27°14'38.25"	72.55'	142.36'	C60	265.08'	9°21'21.38"	21.69'	43.29'	C60	265.08'	9°21'21.38"	21.69'	43.29'	
L16	S 85°43'31.01" W	309.34'	L33	N 05°57'08.41" W	95.18'				C15	275.00'	8°42'52.38"	20.95'	41.83'	C38	250.00'	23°00'01.57"	50.86'	100.36'	C61	472.63'	9°32'06.04"	39.42'	78.65'	C61	472.63'	9°32'06.04"	39.42'	78.65'	
L17	N 75°10'38.01" W	44.46'	L34	N 36°45'13.98" W	61.78'				C16	137.50'	10°11'08.94"	12.25'	24.44'	C39	200.00'	19°44'32.02"	34.80'	68.91'	C62	128.01'	35°07'40.85"	40.52'	78.48'	C62	128.01'	35°07'40.85"	40.52'	78.48'	
L18	N 66°58'56.66" W	62.73'	L35	N 22°28'30.07" W	45.86'				C17	137.50'	11°24'49.78"	13.74'	27.39'	C40	137.50'	24°38'28.88"	30.03'	59.14'	C63	139.98'	21°35'58.37"	26.70'	52.77'	C63	139.98'	21°35'58.37"	26.70'	52.77'	
L19	N 59°43'41.66" W	56.74'	L36	N 14°14'37.53" W	79.65'				C18	316.78'	21°51'21.27"	61.16'	120.84'	C41	102.20'	36°13'28.47"	33.43'	64.61'	C64	200.00'	33°12'31.99"	59.64'	115.92'	C64	200.00'	33°12'31.99"	59.64'	115.92'	
									C19	200.00'	17°44'22.58"	31.21'	61.92'	C42	550.00'	7°51'32.06"	37.78'	75.44'	C65	325.00'	46°50'09.64"	140.76'	265.67'	C65	325.00'	46°50'09.64"	140.76'	265.67'	
									C20	71.16'	27°14'12.13"	17.24'	33.83'	C43	275.00'	11°11'07.65"	26.93'	53.69'											
									C21	200.00'	10°33'16.28"	18.47'	36.84'	C44	275.00'	15°00'47.30"	36.24'	72.06'											
									C22	200.00'	11°09'35.87"	19.54'	38.96'	C45	275.00'	14°09'27.27"	34.15'	67.95'											
									C23	250.00'	31°46'53.16"	71.17'	138.67'	C46	275.00'	23°27'45.69"	57.11'	112.61'											
									C24	100.94'	21°28'54.07"	19.15'	37.85'	C47	325.00'	26°27'43.66"	76.41'	150.10'											

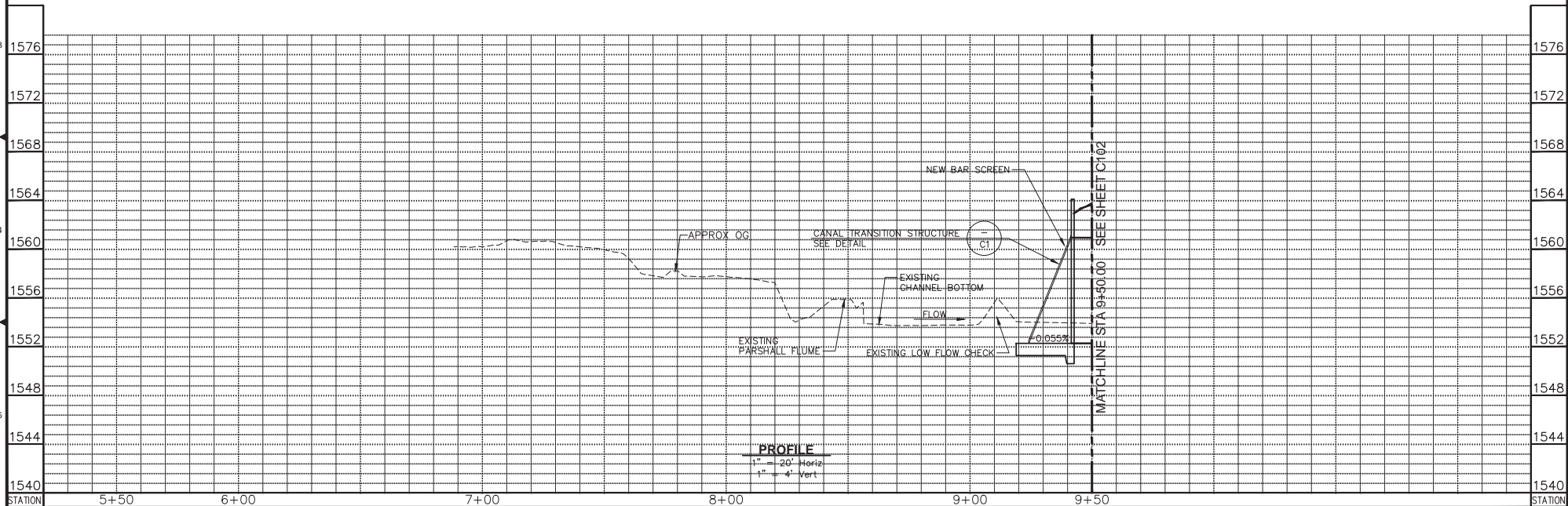


DRAWING KEY MAP
NO SCALE

Plan Date:	Revision Description	Rev. By	App. By	Date		<p>3400 DOUGLAS BOULEVARD, SUITE 190 ROSEVILLE, CA 95661 P: 916.368.9181 - F: 916.368.1308 - www.quincyceng.com</p>		<p>NEVADA IRRIGATION DISTRICT</p> <p>1036 WEST MAIN ST. GRASS VALLEY, CA 95945</p>	<p>IMPROVEMENT PLANS FOR COMBIE PHASE 1 CANAL REPLACEMENT PROJECT PLAN AND PROFILE</p> <p>PIPELINE DRAWING KEY AND DATA TABLES</p>	<p>DRAWING NUMBER C100</p> <p>SHEET NUMBER 20 of 45</p>
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- NOTES:**
1. THE NORTH ARROW ORIENTATION SHOWN ON THESE PLANS IS FOR REFERENCE ONLY, AND DOES NOT REFLECT TRUE NORTH OR MAGNETIC NORTH.
 2. FOR PROJECT CONTROL AND SURVEY BASIS OF BEARING, SEE DRAWING G6.
 3. FOR LINE AND CURVE DATA TABLES, SEE DRAWING C100.
 4. FOR CULVERTS AND TRENCH DAMS, SEE DRAWINGS DS1 - DS2.
 5. FOR TYPICAL PIPE JOINT DETAIL, SEE DETAIL 4/C8.



Plan Date:	Revision Description	Rev. By:	App. By:	Date

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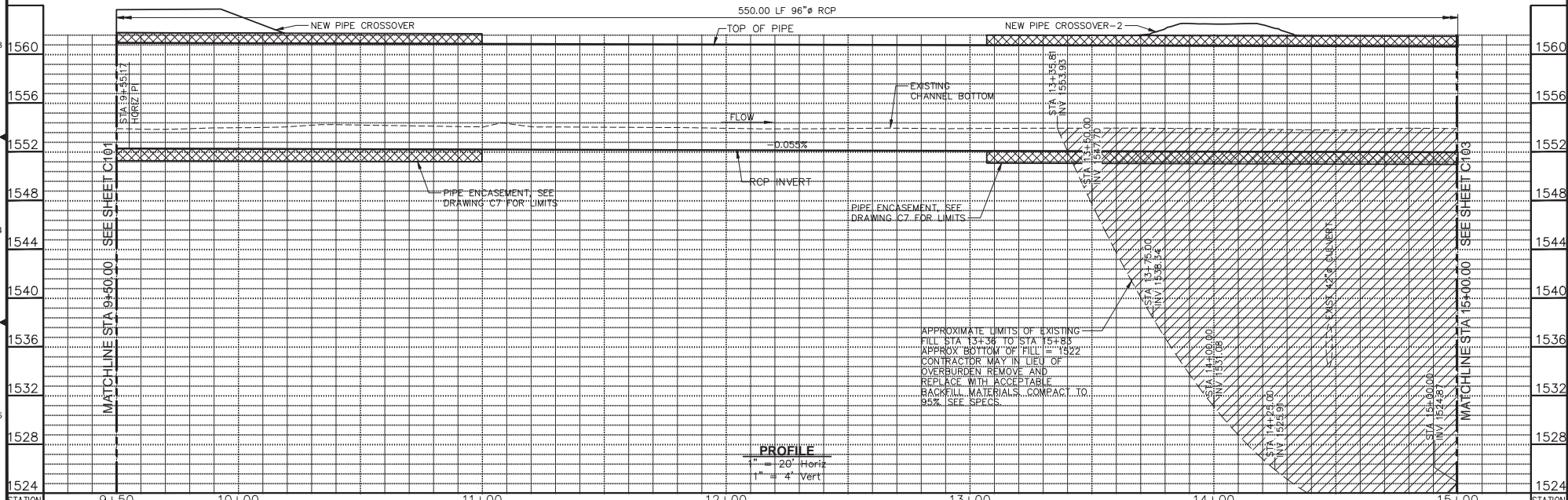
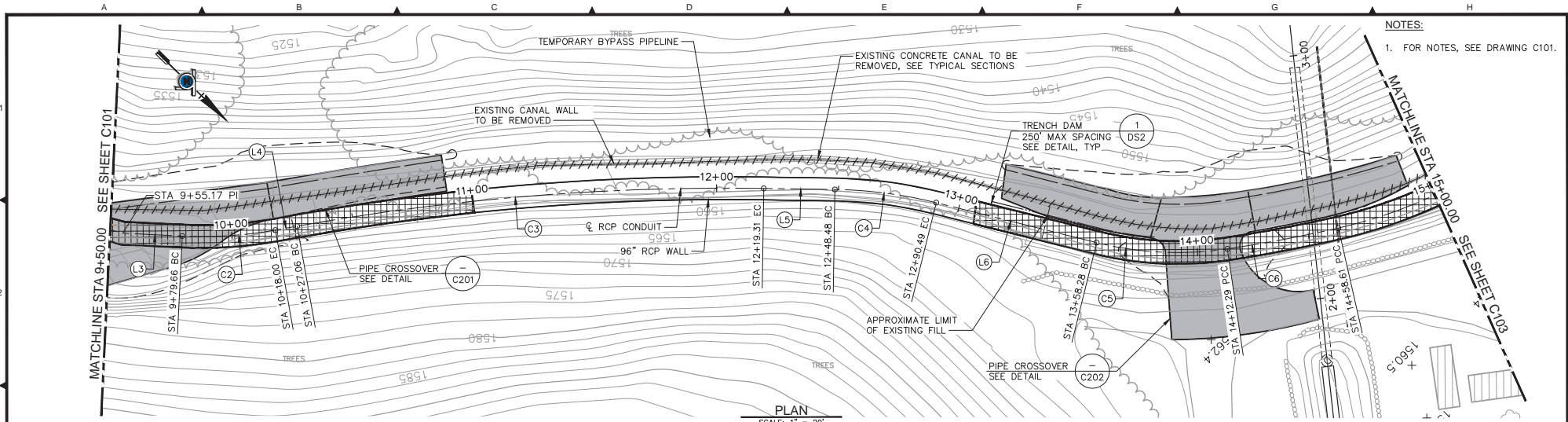
Plan Date: 12/21/2018
 Design By: STJ
 Drawn By: DCP
 Checked By: DTK

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IMPROVEMENT PLANS FOR
COMBIE PHASE 1
CANAL REPLACEMENT PROJECT
PLAN AND PROFILE
 STA 9+19.33 TO STA 9+50.00

DRAWING NUMBER: **C101**
 SHEET NUMBER: 21 of 45



Plan Date:	Revision Description	Rev. By:	App. By:	Date
12/21/2018				

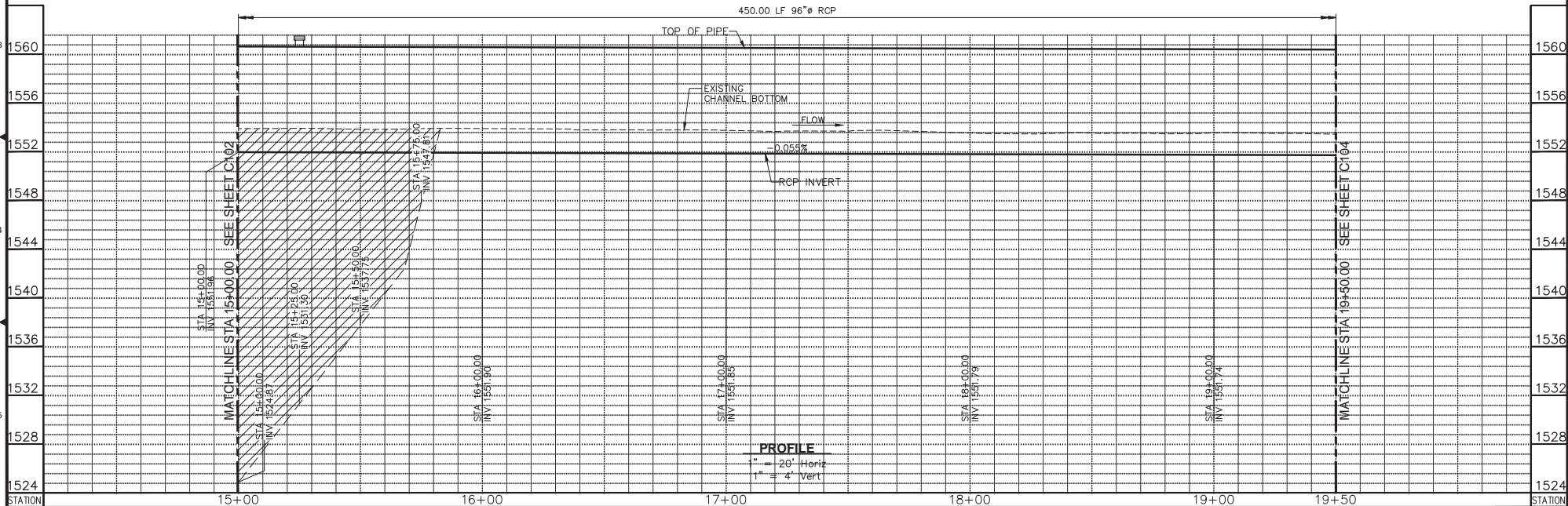
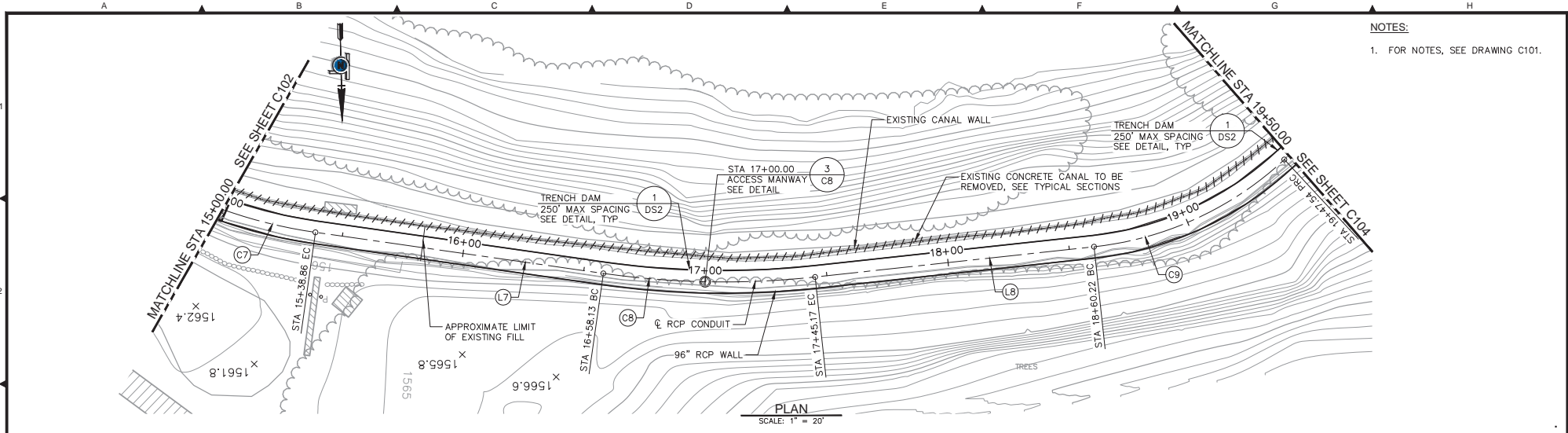
Plan Date: 12/21/2018
Design By: STJ
Drawn By: DCP
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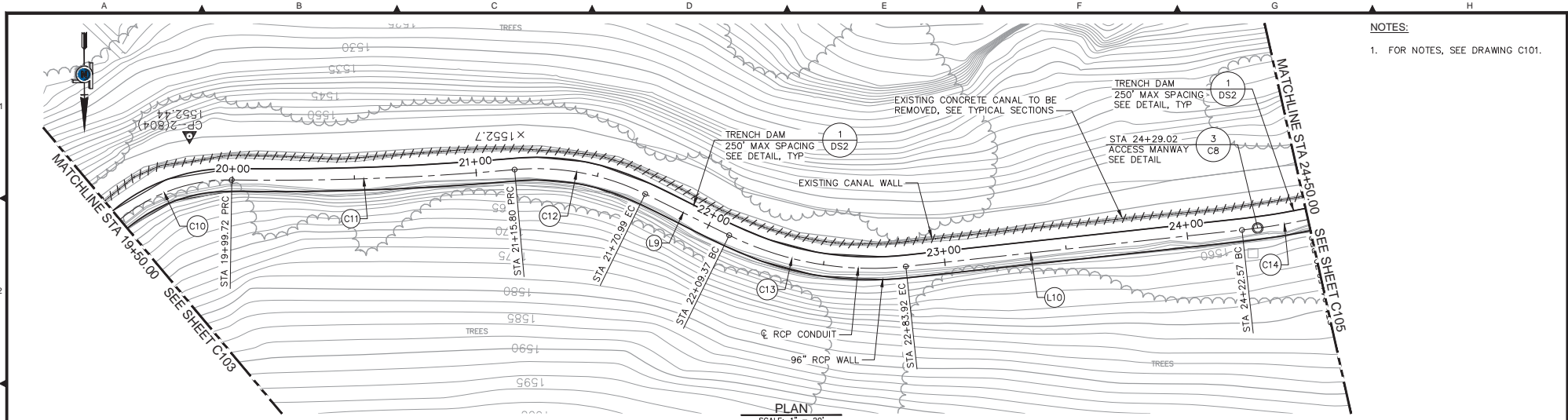
NEVADA IRRIGATION DISTRICT
1036 WEST MAIN ST. GRASS VALLEY, CA 95945

IMPROVEMENT PLANS FOR
COMBIE PHASE 1
CANAL REPLACEMENT PROJECT
PLAN AND PROFILE
STA 9+50.00 TO STA 15+00.00

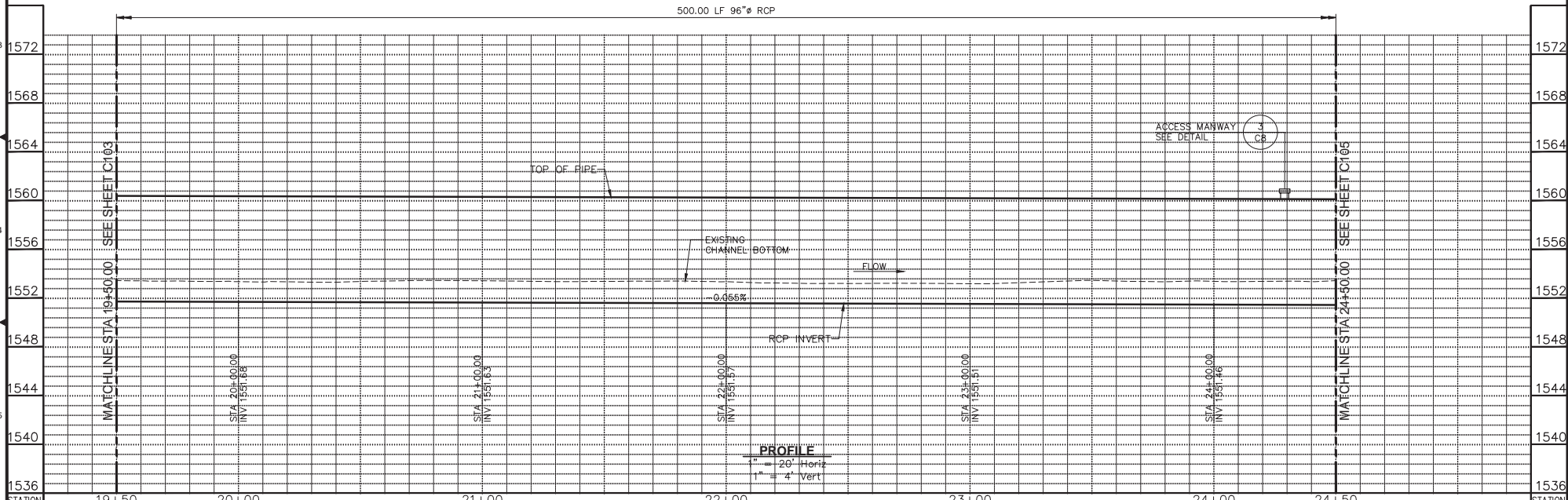
DRAWING NUMBER
C102
SHEET NUMBER
22 of 45



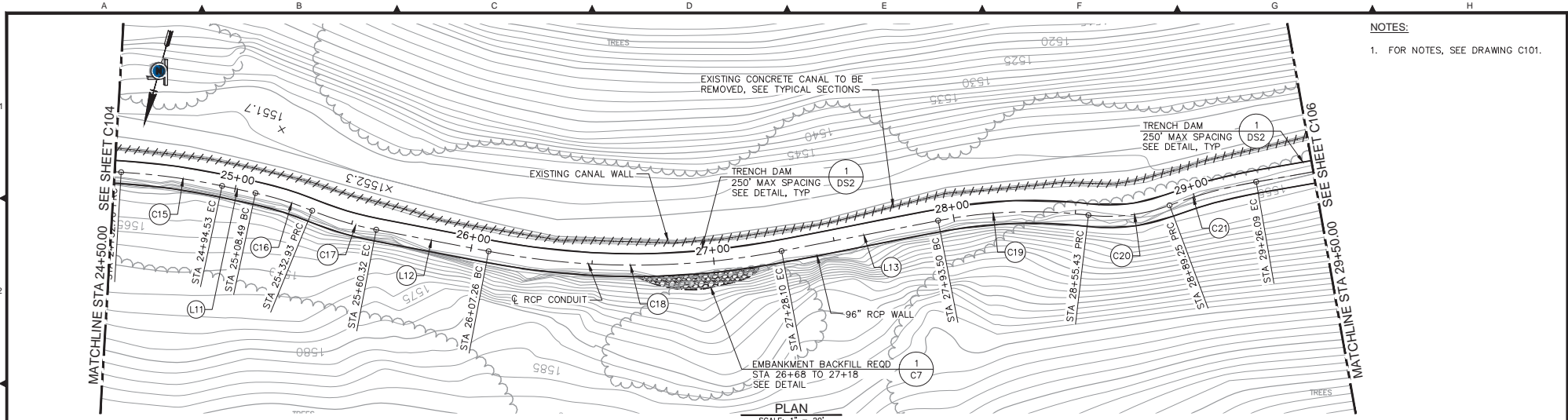
Plan Date: Revision Description Rev. By: App. By: Date		Plan Date: 12/21/2018 Design By: STJ Drawn By: DCP Checked By: DTK	<p>QUINCY ENGINEERING 3400 DOUGLAS BOULEVARD, SUITE 190 ROSEVILLE, CA 95661 P: 916.368.9181 - F: 916.368.1308 - www.quincyceng.com</p>	<p>NEVADA IRRIGATION DISTRICT 1036 WEST MAIN ST. GRASS VALLEY, CA 95945</p>	<p>IMPROVEMENT PLANS FOR COMBIE PHASE 1 CANAL REPLACEMENT PROJECT PLAN AND PROFILE STA 15+00.00 TO STA 19+50.00</p>	DRAWING NUMBER C103 SHEET NUMBER 23 of 45
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NOTES:
1. FOR NOTES, SEE DRAWING C101.



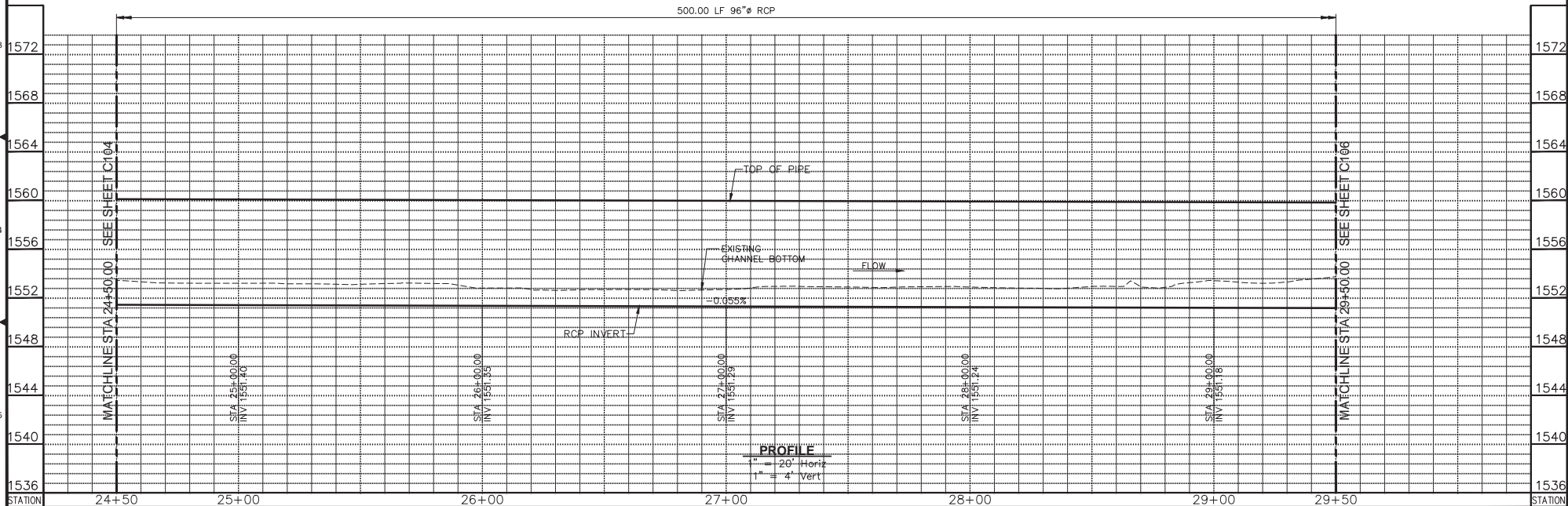
Plan Date: 12/21/2018	Revision Description Rev. By App. By Date	Professional Engineer D. TODD KOTE No. 44811 Exp. 3/31/20	Professional Engineer SHAWN I. JOSE No. 54293 Exp. 12/31/19	Plan Date: 12/21/2018 Design By: STJ Drawn By: DCP Checked By: DTK	 QUINCY ENGINEERING 3400 DOUGLAS BOULEVARD, SUITE 190 ROSEVILLE, CA 95661 P: 916.368.9181 - F: 916.368.1308 - www.quincyceng.com	 NEVADA IRRIGATION DISTRICT 1036 WEST MAIN ST. GRASS VALLEY, CA 95945	IMPROVEMENT PLANS FOR COMBIE PHASE 1 CANAL REPLACEMENT PROJECT PLAN AND PROFILE STA 19+50.00 TO STA 24+50.00	DRAWING NUMBER C104 SHEET NUMBER 24 of 45
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NOTES:
1. FOR NOTES, SEE DRAWING C101.

PLAN
SCALE: 1" = 20'

500.00 LF 96" RCP



PROFILE
1" = 20' Horiz
1" = 4' Vert

Plan Date:	Revision Description	Rev.	By	App. By	Date



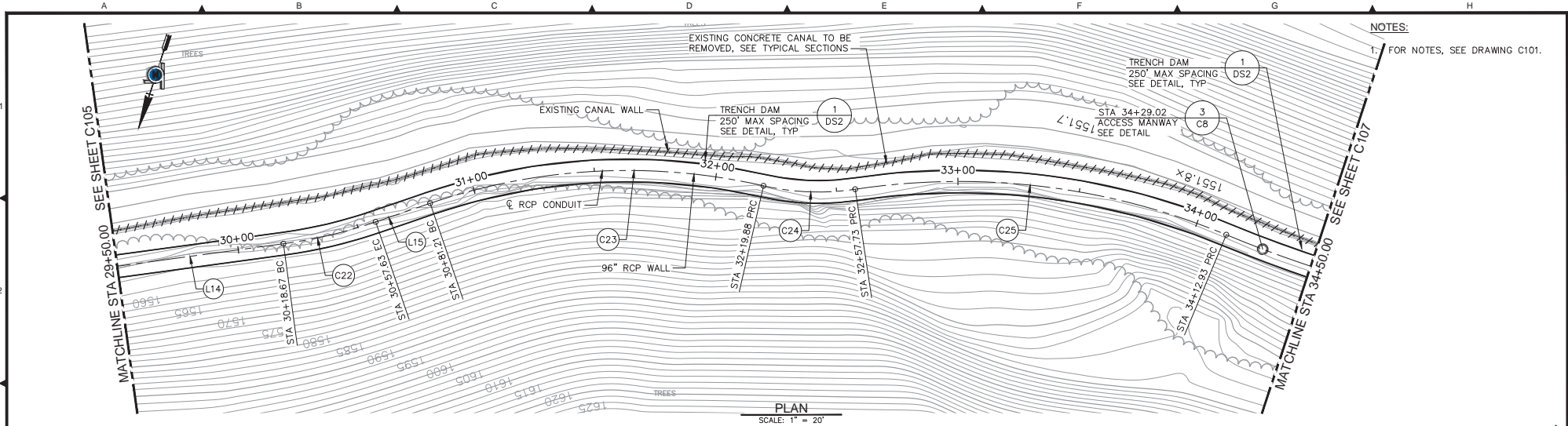
Plan Date: 12/21/2018
 Design By: STJ
 Drawn By: DCP
 Checked By: DTK

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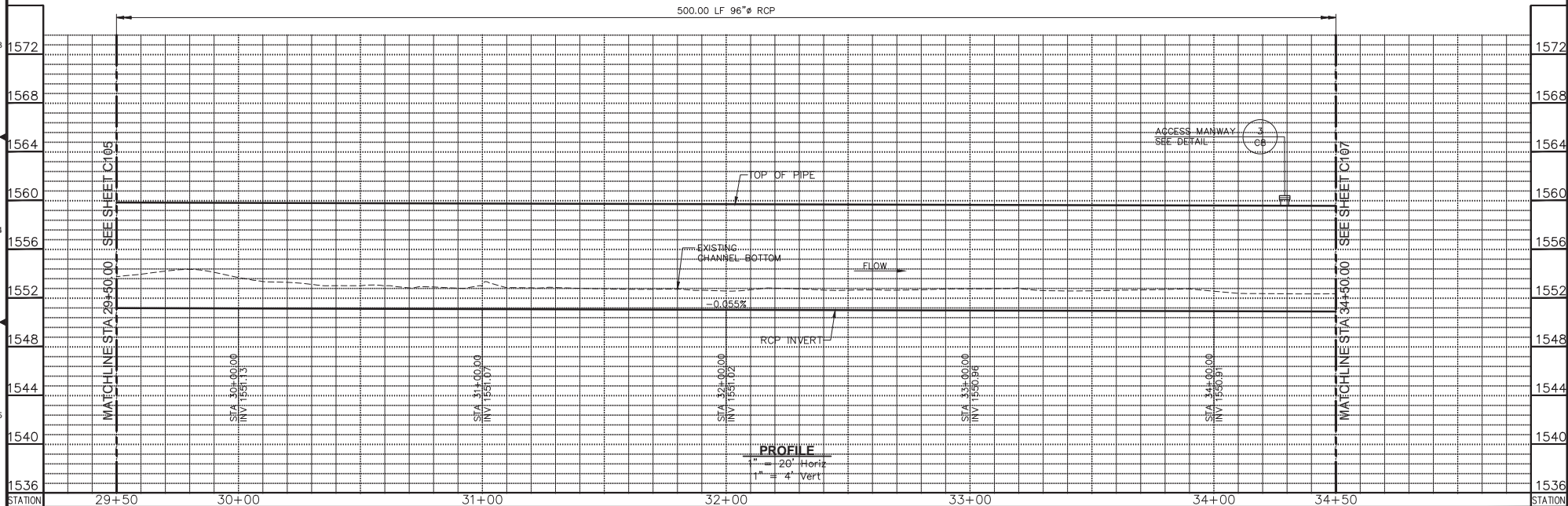
NEVADA IRRIGATION DISTRICT
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IMPROVEMENT PLANS FOR
COMBIE PHASE 1
CANAL REPLACEMENT PROJECT
 PLAN AND PROFILE
 STA 24+50.00 TO STA 29+50.00

DRAWING NUMBER
C105
 SHEET NUMBER
 25 of 45



NOTES:
1 FOR NOTES, SEE DRAWING C101.



Plan Date:	Revision Description	Rev.	By	App. By	Date



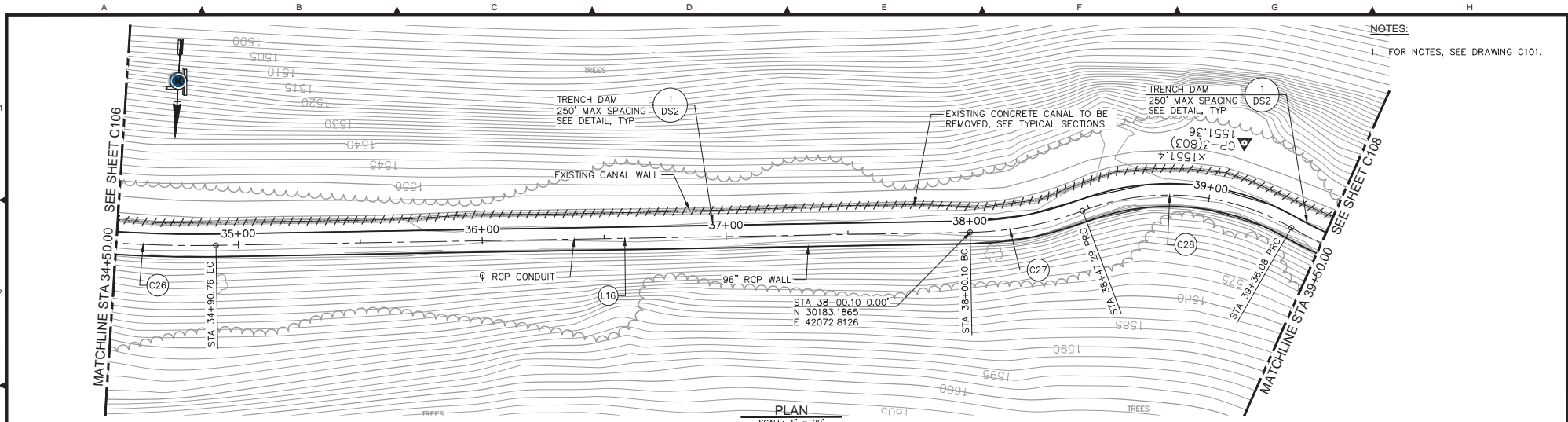
Plan Date: 12/21/2018
 Design By: STJ
 Drawn By: DCP
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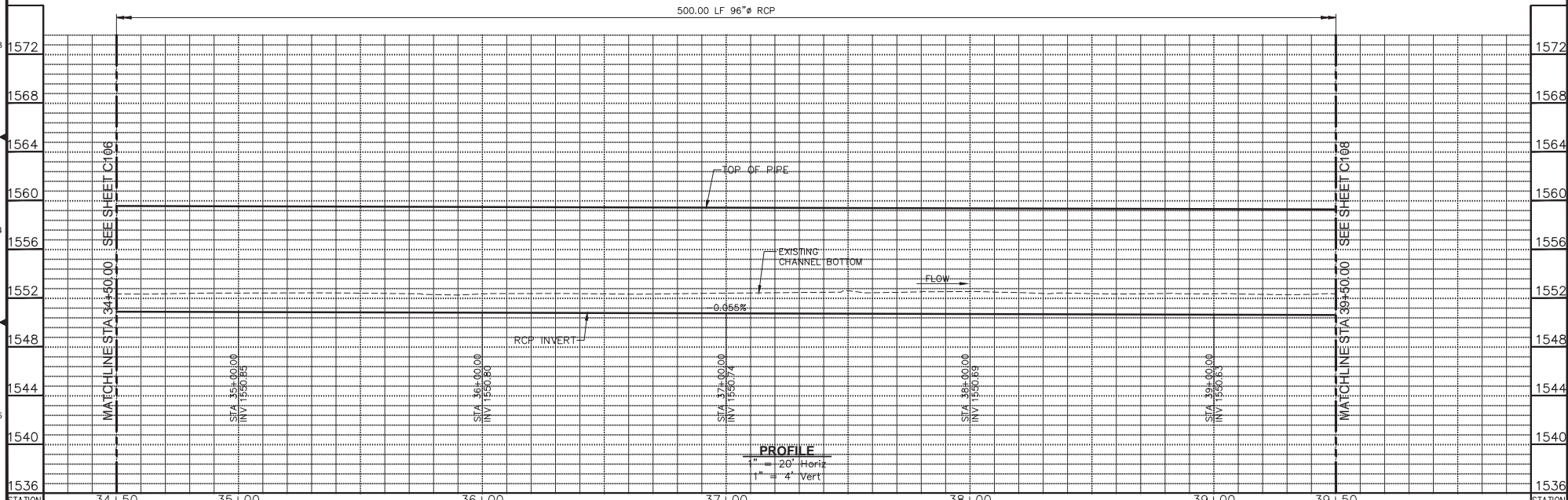
IMPROVEMENT PLANS FOR
COMBIE PHASE 1
CANAL REPLACEMENT PROJECT
 PLAN AND PROFILE
 STA 29+50.00 TO STA 34+50.00

DRAWING NUMBER	C106
SHEET NUMBER	26 of 45



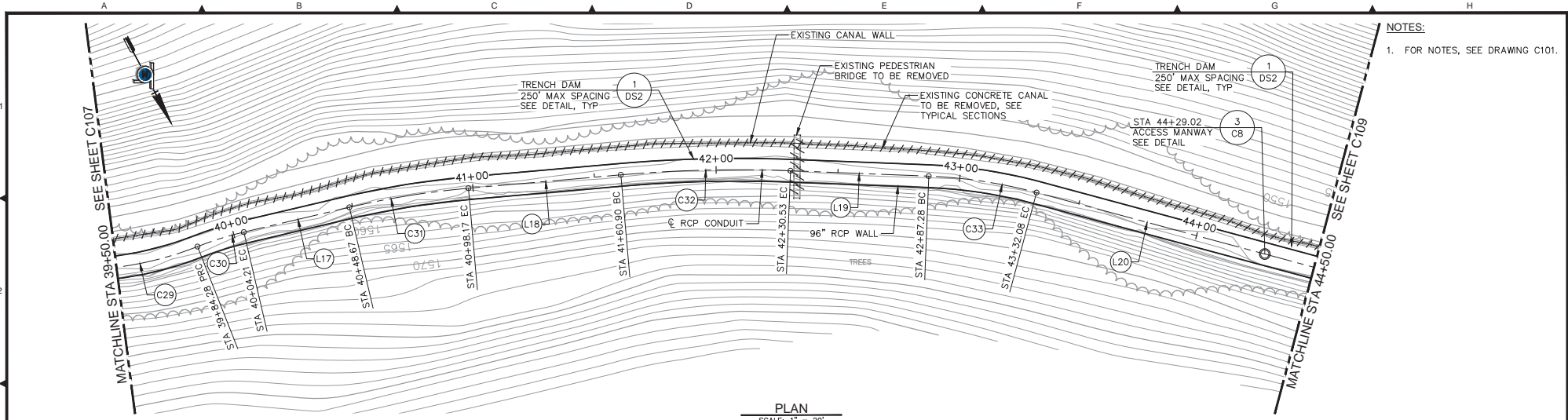
NOTES:
1. FOR NOTES, SEE DRAWING C101.

PLAN
SCALE: 1" = 20'



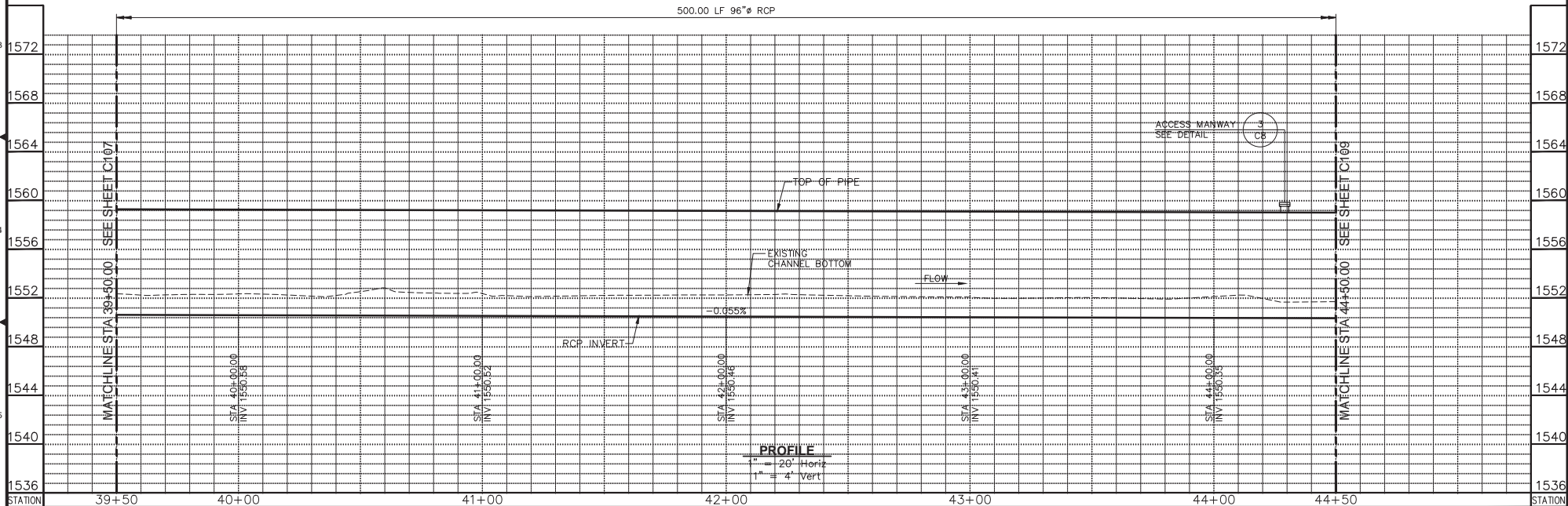
PROFILE
1" = 20' Horiz
1" = 4' Vert

Plan Date: 12/21/2018	Design By: STJ	Drawn By: DCP	Checked By: DTK	 QUINCY ENGINEERING 3400 DOUGLAS BOULEVARD, SUITE 190 ROSEVILLE, CA 95661 P: 916.368.9181 - F: 916.368.1308 - www.quincyceng.com	 NEVADA IRRIGATION DISTRICT 1036 WEST MAIN ST. GRASS VALLEY, CA 95945	IMPROVEMENT PLANS FOR COMBIE PHASE 1 CANAL REPLACEMENT PROJECT PLAN AND PROFILE STA 34+50.00 TO STA 39+50.00	DRAWING NUMBER C107 SHEET NUMBER 27 of 45
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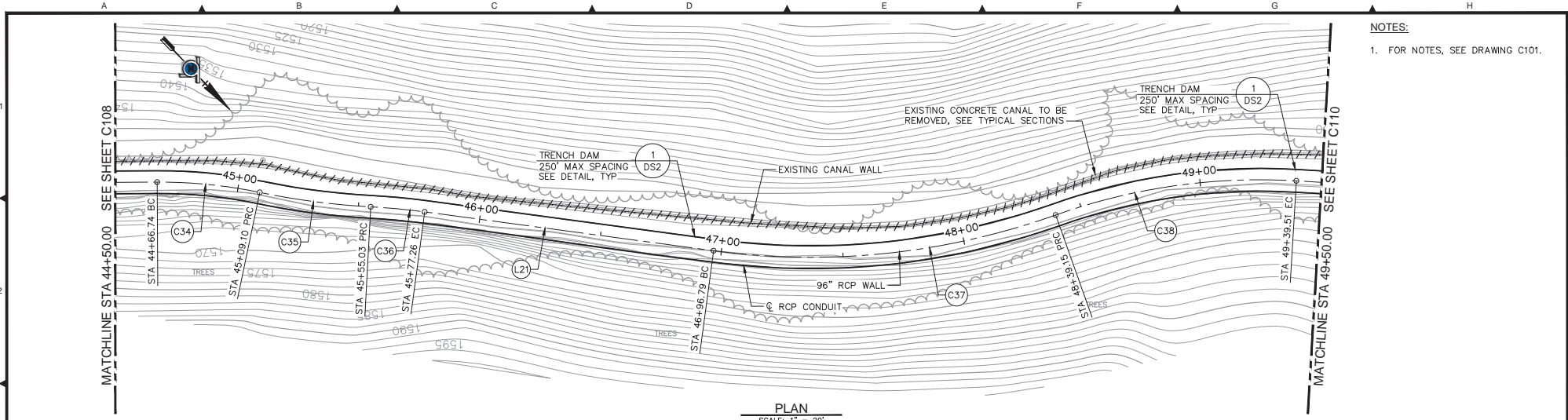
NOTES:
1. FOR NOTES, SEE DRAWING C101.

PLAN
SCALE: 1" = 20'



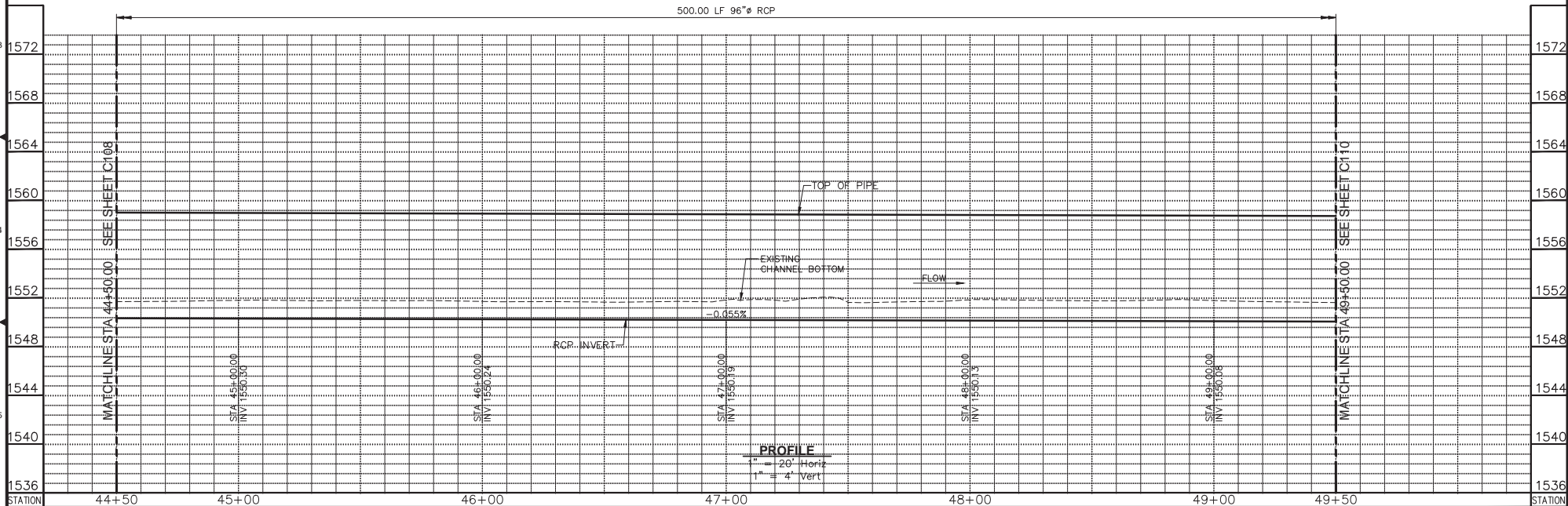
PROFILE
1" = 20' Horiz
1" = 4' Vert

Plan Date: 12/21/2018	Revision Description Rev. By: App. By: Date:			Plan Date: 12/21/2018 Design By: STJ Drawn By: DCP Checked By: DTK	 QUINCY ENGINEERING 3400 DOUGLAS BOULEVARD, SUITE 190 ROSEVILLE, CA 95661 P: 916.368.9181 - F: 916.368.1308 - www.quincyceng.com	 NEVADA IRRIGATION DISTRICT 1036 WEST MAIN ST. GRASS VALLEY, CA 95945	IMPROVEMENT PLANS FOR COMBIE PHASE 1 CANAL REPLACEMENT PROJECT PLAN AND PROFILE STA 39+50.00 TO STA 44+50.00	DRAWING NUMBER C108 SHEET NUMBER 28 of 45
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NOTES:
1. FOR NOTES, SEE DRAWING C101.

PLAN
SCALE: 1" = 20'



PROFILE
1" = 20' Horiz
1" = 4' Vert

Plan Date:	Revision Description	Rev.	By	App.	Date



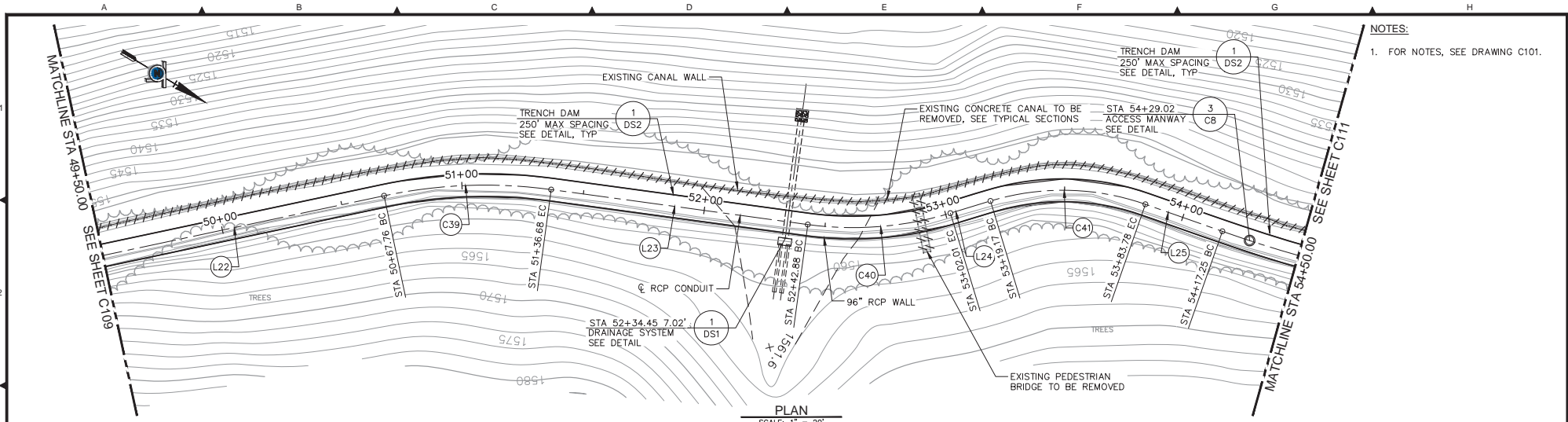
Plan Date: 12/21/2018
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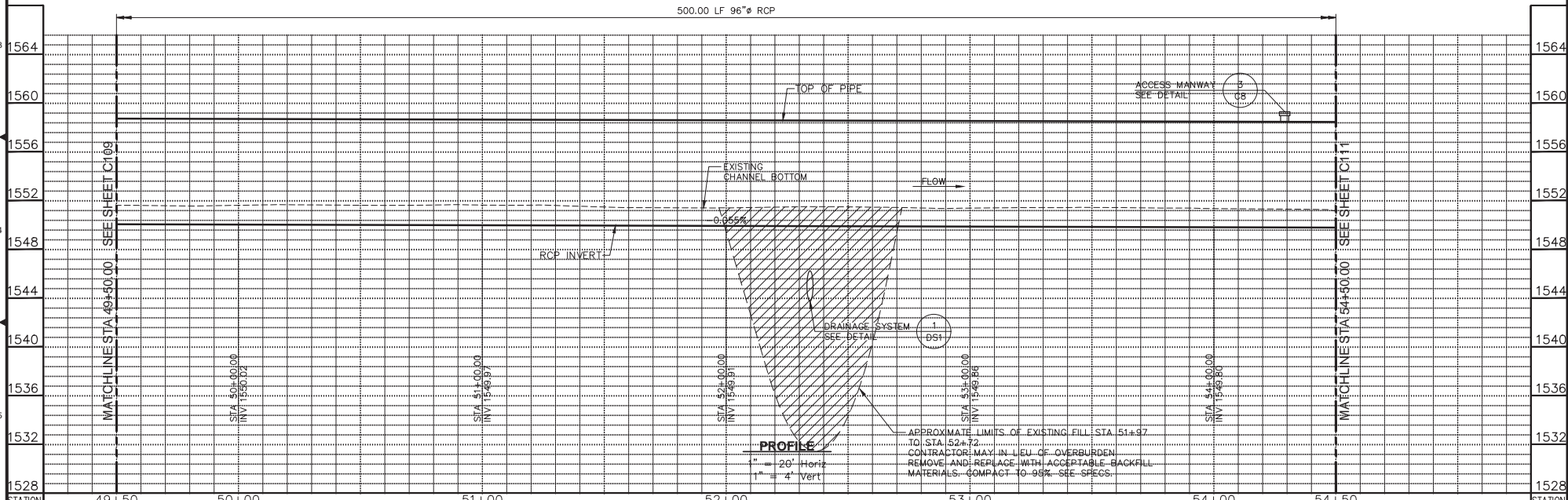
IMPROVEMENT PLANS FOR
COMBIE PHASE 1
CANAL REPLACEMENT PROJECT
PLAN AND PROFILE
STA 44+50.00 TO STA 49+50.00

DRAWING NUMBER
C109
SHEET NUMBER
29 of 45



NOTES:
1. FOR NOTES, SEE DRAWING C101.

PLAN
SCALE: 1" = 20'



PROFILE
1" = 20' Horiz
1" = 4' Vert

Plan Date:	Revision Description	Rev.	By	App.	By	Date

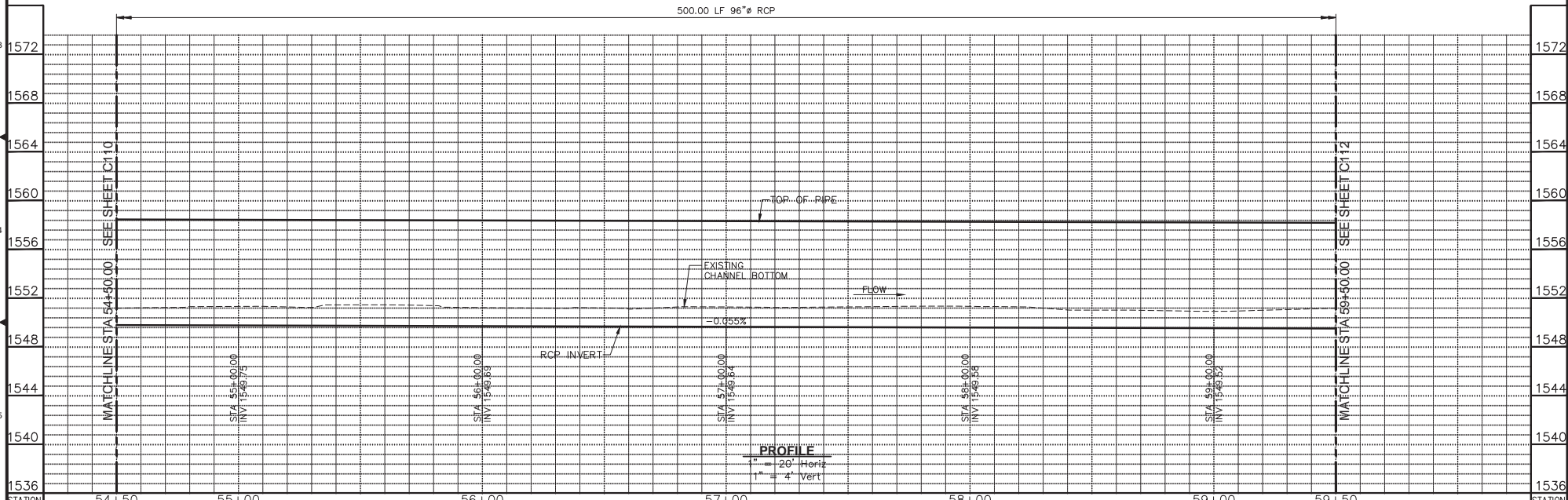
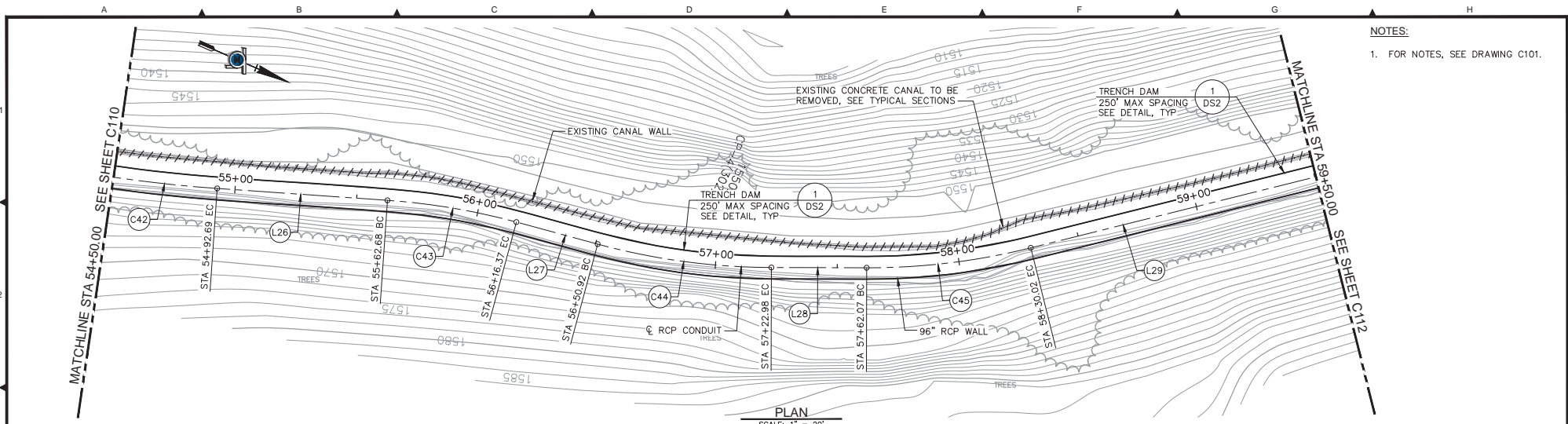
Professional Engineer stamps for D. TODD KOTE (No. 44811, Exp. 3/31/20) and SHAWN I. JOSE (No. 54293, Exp. 12/31/19).

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IMPROVEMENT PLANS FOR
COMBIE PHASE 1
CANAL REPLACEMENT PROJECT
PLAN AND PROFILE
STA 49+50.00 TO STA 54+50.00

DRAWING NUMBER
C110
SHEET NUMBER
30 of 45



Plan Date:	Revision Description	Rev. By:	App. By:	Date
12/21/2018				

Professional Engineer
D. TODD KOTE
No. 44811
Exp. 3/31/20

Professional Engineer
SHAWN I. JOHNS
No. 54293
Exp. 12/31/19

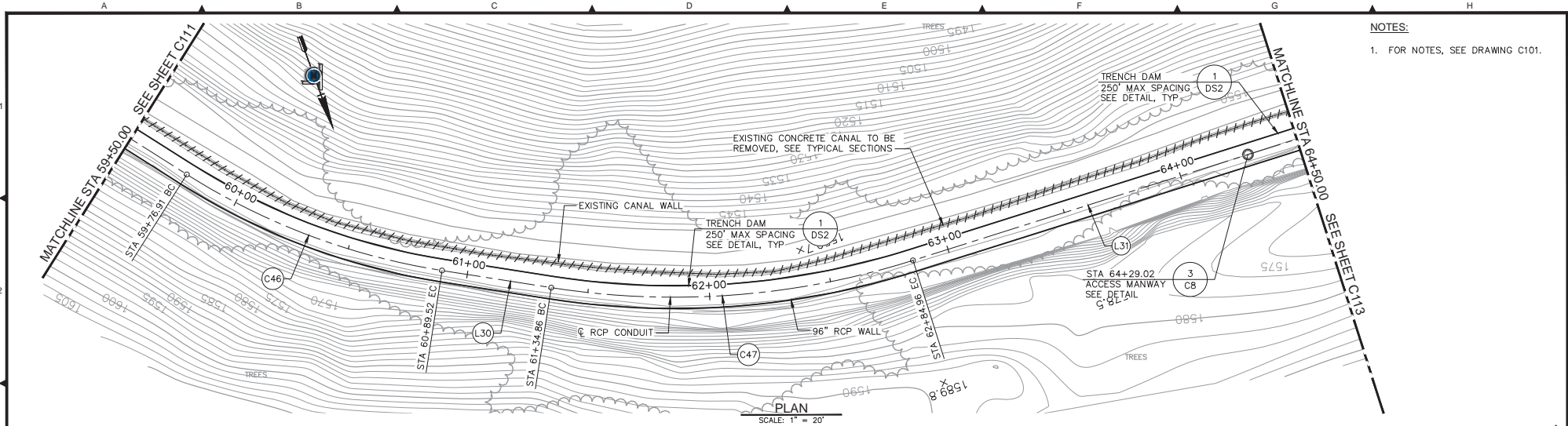
Plan Date: 12/21/2018
Design By: STJ
Drawn By: DCP
Checked By: DTK

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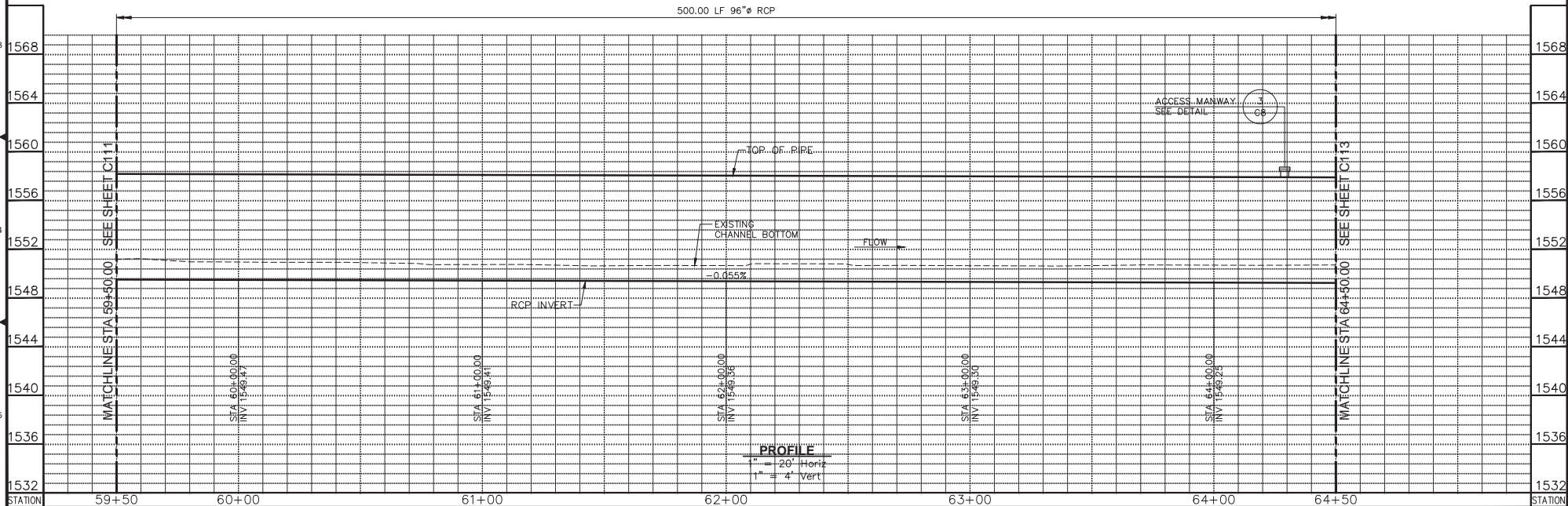
IMPROVEMENT PLANS FOR
COMBIE PHASE 1
CANAL REPLACEMENT PROJECT
PLAN AND PROFILE
STA 54+50.00 TO STA 59+50.00

DRAWING NUMBER
C111
SHEET NUMBER
31 of 45



NOTES:
1. FOR NOTES, SEE DRAWING C101.

PLAN
SCALE: 1" = 20'



PROFILE
1" = 20' Horiz
1" = 4' Vert

Plan Date:	Revision Description	Rev.	By	App. By	Date

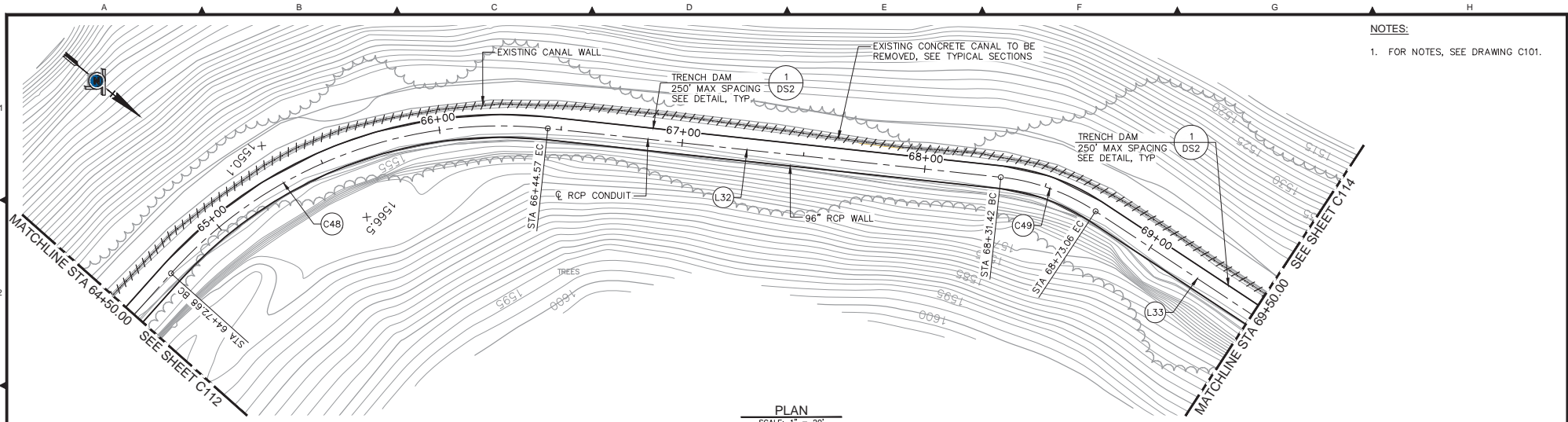
Professional Engineer seals for D. TODD KOTE (No. 44811, Exp. 3/31/20) and SHAWN I. JOSE (No. 54293, Exp. 12/31/19).

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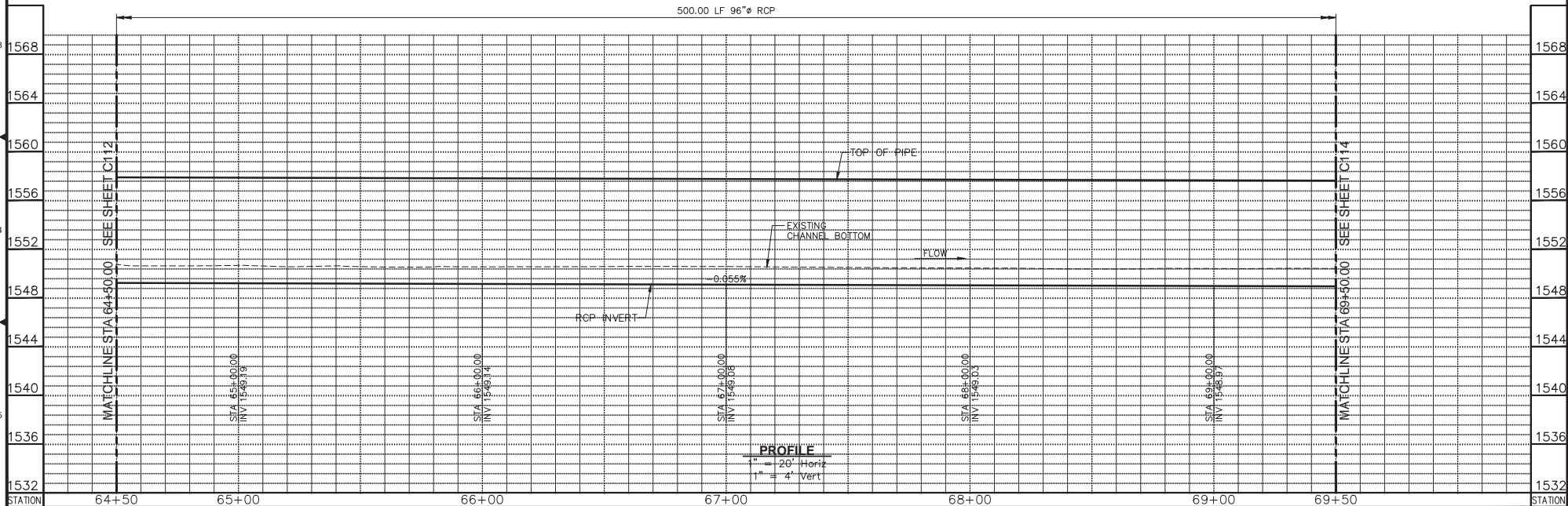
IMPROVEMENT PLANS FOR
COMBIE PHASE 1
CANAL REPLACEMENT PROJECT
PLAN AND PROFILE
STA 59+50.00 TO STA 64+50.00

DRAWING NUMBER
C112
SHEET NUMBER
32 of 45



NOTES:
1. FOR NOTES, SEE DRAWING C101.

PLAN
SCALE: 1" = 20'



PROFILE
1" = 20' Horiz
1" = 4' Vert

Plan Date:	Revision Description	Rev.	By	App. By	Date



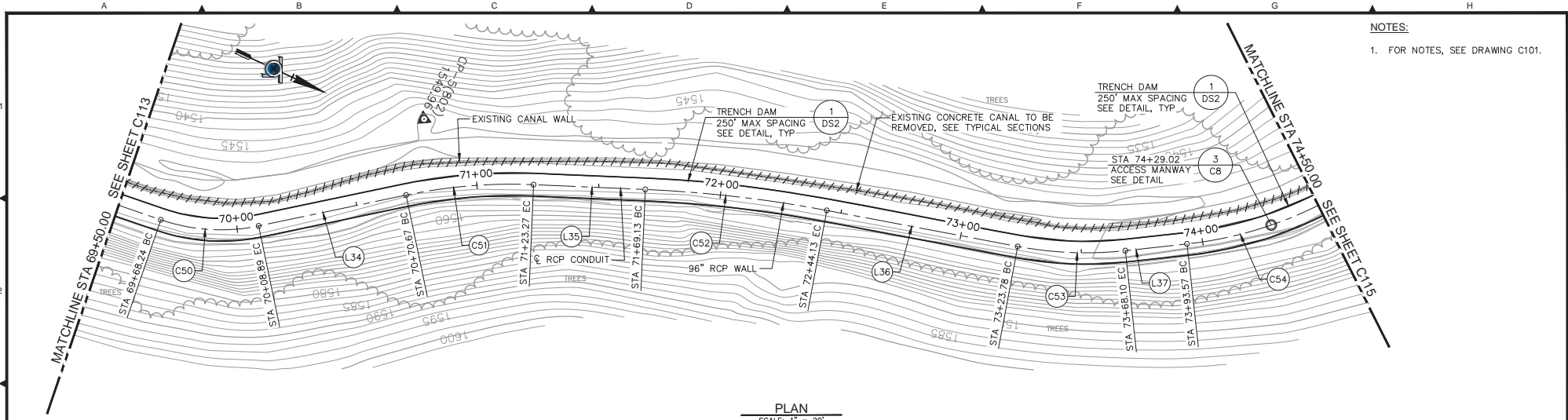
Plan Date: 12/21/2018
Design By: STJ
Drawn By: DCP
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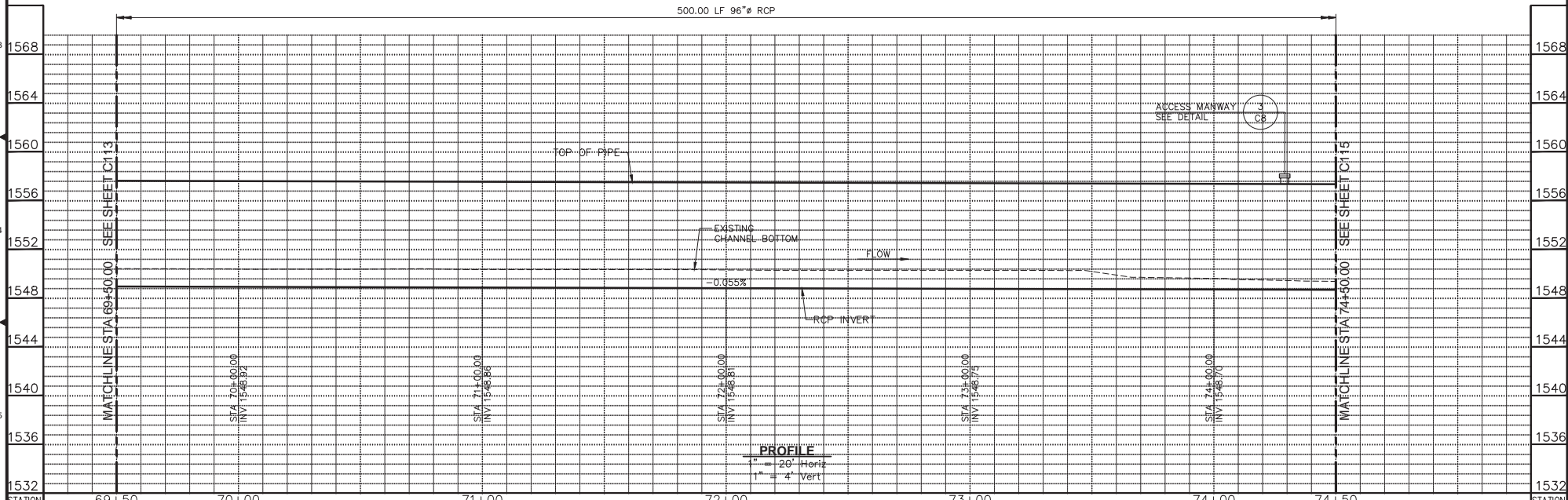
IMPROVEMENT PLANS FOR
COMBIE PHASE 1
CANAL REPLACEMENT PROJECT
PLAN AND PROFILE
STA 64+50.00 TO STA 69+50.00

DRAWING NUMBER
C113
SHEET NUMBER
33 of 45



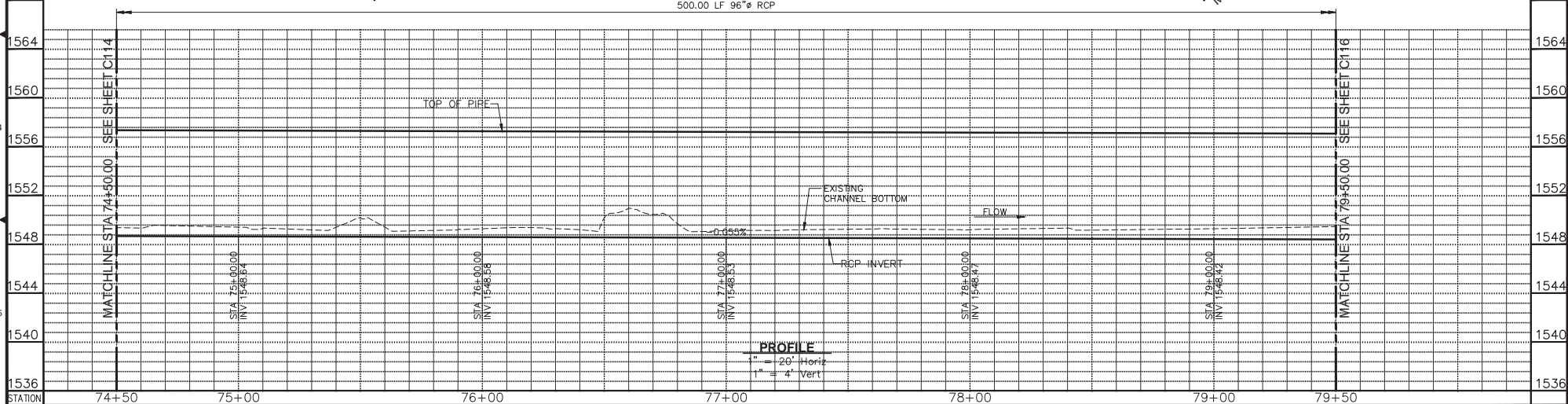
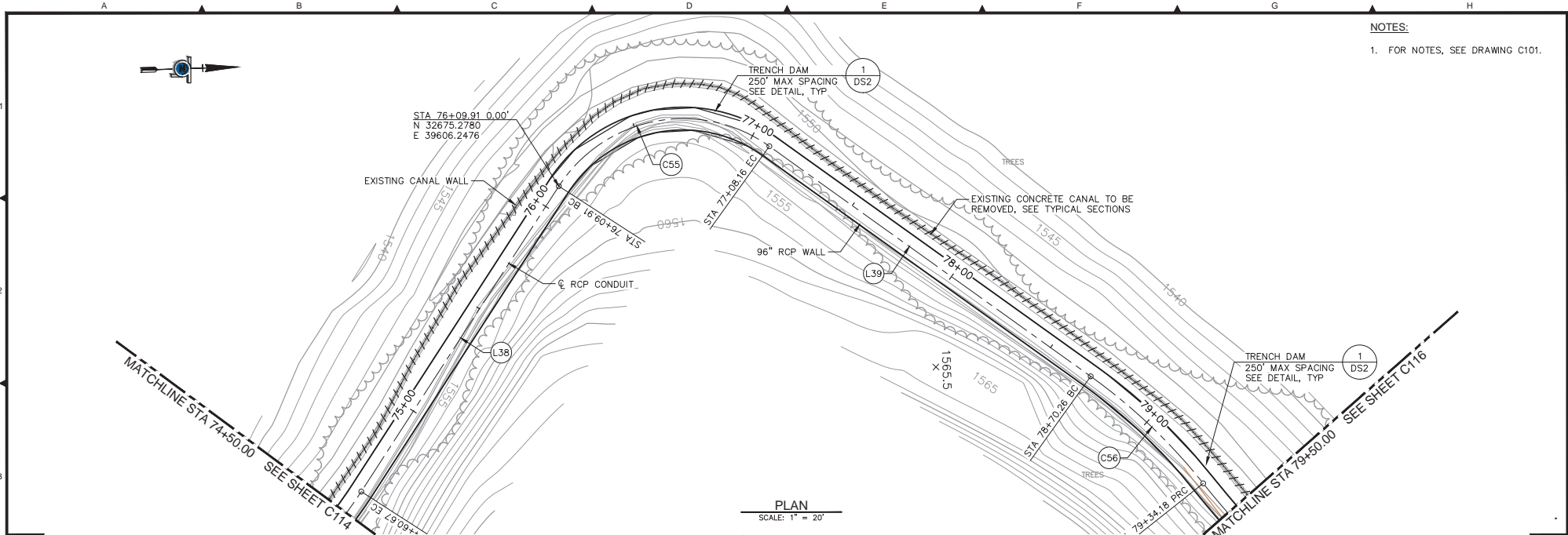
NOTES:
1. FOR NOTES, SEE DRAWING C101.

PLAN
SCALE: 1" = 20'

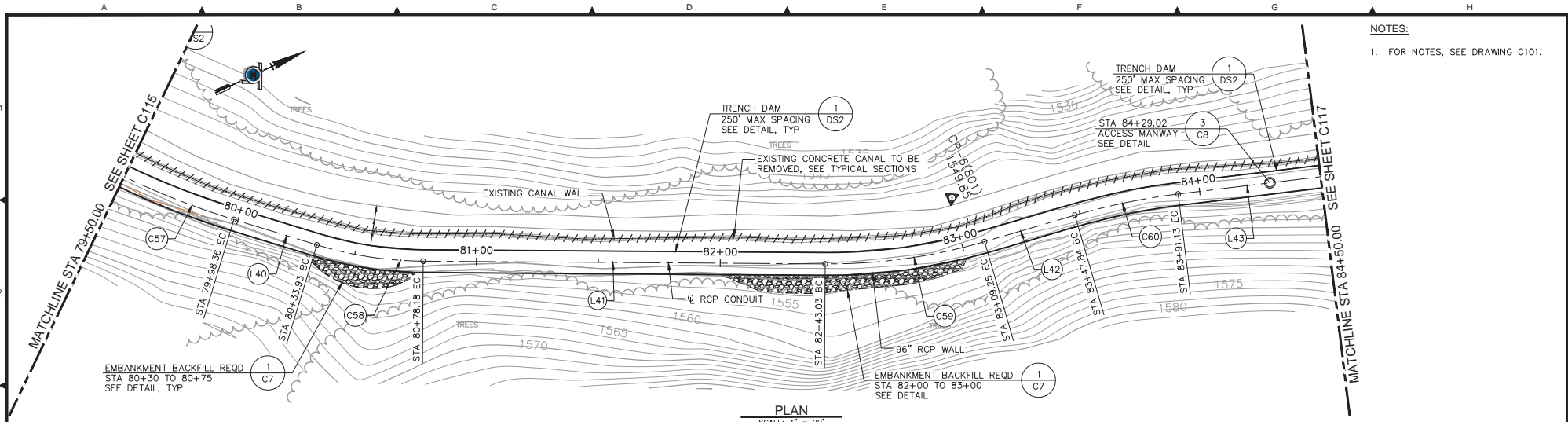


PROFILE
1" = 20' Horiz
1" = 4' Vert

Plan Date: 12/21/2018	Revision Description Rev. By App. By Date	 	Plan Date: 12/21/2018 Design By: STJ Drawn By: DCP Checked By: DTK	 QUINCY ENGINEERING 3400 DOUGLAS BOULEVARD, SUITE 190 ROSEVILLE, CA 95661 P: 916.368.9181 - F: 916.368.1308 - www.quincyceng.com	 NEVADA IRRIGATION DISTRICT 1036 WEST MAIN ST. GRASS VALLEY, CA 95945	IMPROVEMENT PLANS FOR COMBIE PHASE 1 CANAL REPLACEMENT PROJECT PLAN AND PROFILE STA 69+50.00 TO STA 74+50.00	DRAWING NUMBER C114 SHEET NUMBER 34 of 45
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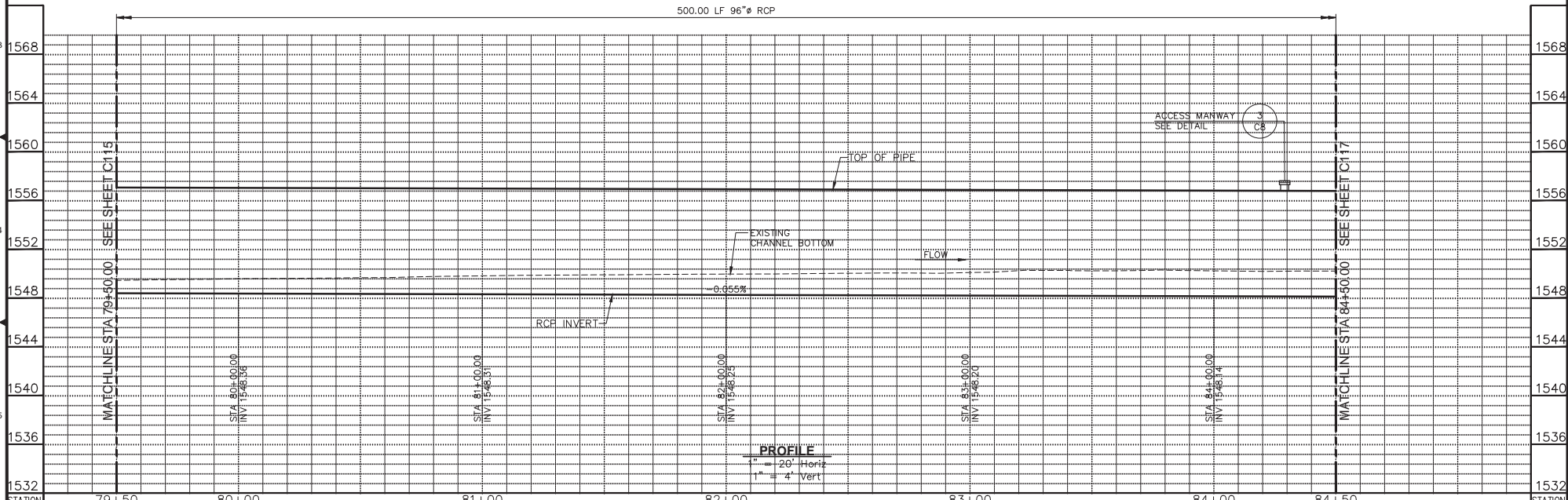


Plan Date:	Revision Description	Rev. By	App. By	Date		Plan Date: 12/21/2018 Design By: STJ Drawn By: DCP Checked By: DTK	<p>QUINCY ENGINEERING 3400 DOUGLAS BOULEVARD, SUITE 190 ROSEVILLE, CA 95661 P: 916.368.9181 - F: 916.368.1308 - www.quincyceng.com</p>	<p>NEVADA IRRIGATION DISTRICT 1036 WEST MAIN ST. GRASS VALLEY, CA 95945</p>	<p>IMPROVEMENT PLANS FOR COMBIE PHASE 1 CANAL REPLACEMENT PROJECT PLAN AND PROFILE STA 74+50.00 TO STA 79+50.00</p>	DRAWING NUMBER C115
						SHEET NUMBER 35 of 45				



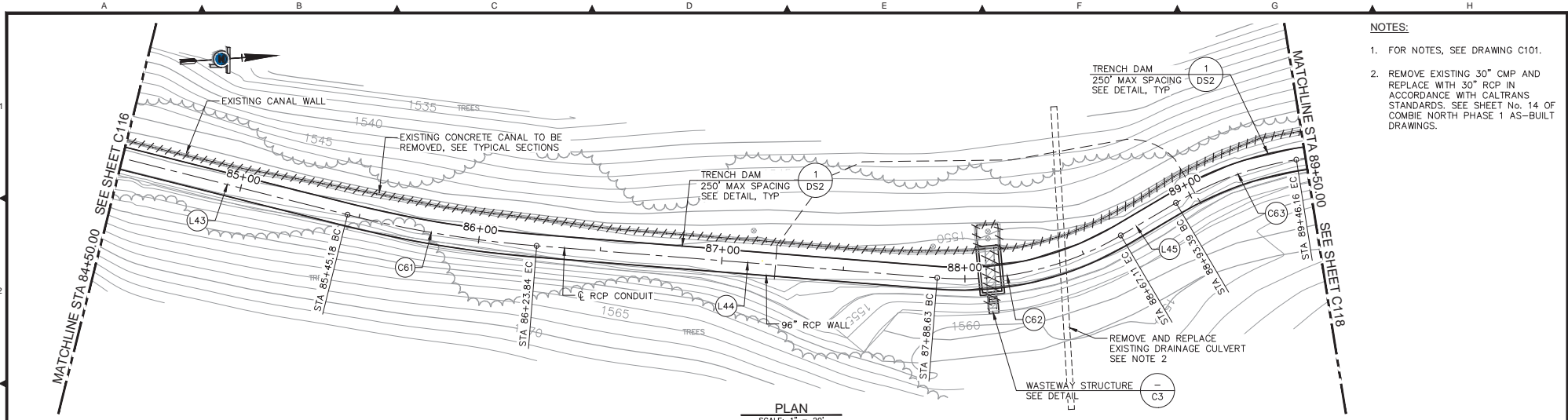
NOTES:
1. FOR NOTES, SEE DRAWING C101.

PLAN
SCALE: 1" = 20'

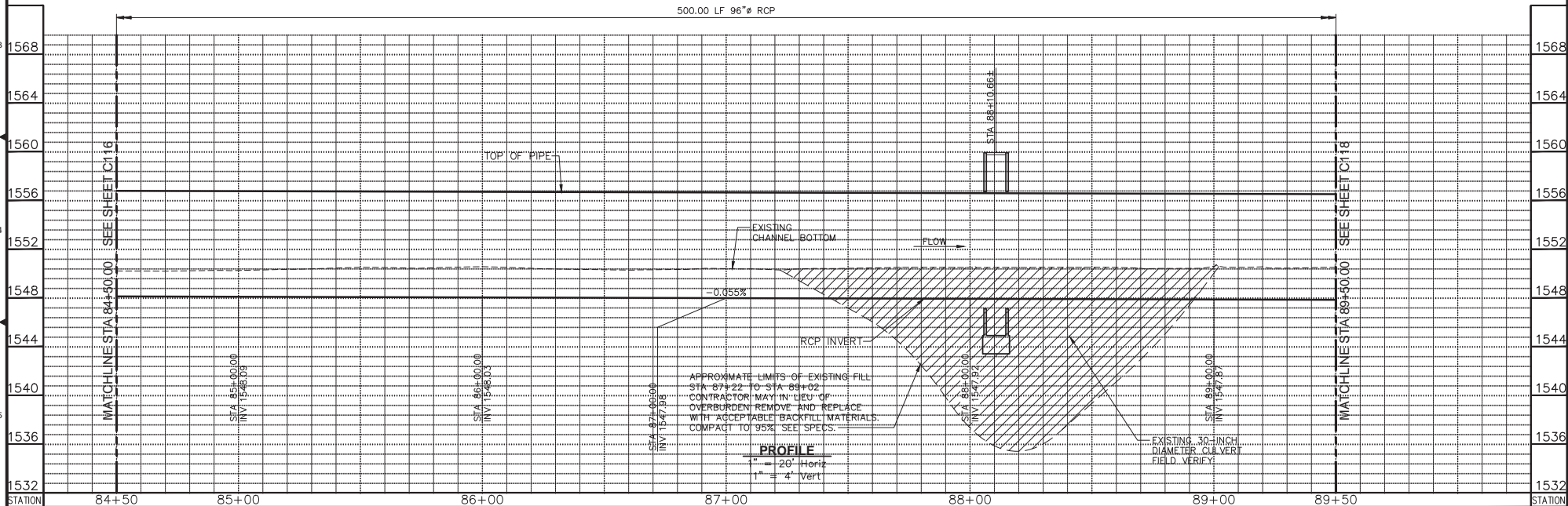


PROFILE
1" = 20' Horiz
1" = 4' Vert

Plan Date: Revision Description Rev. By: App. By: Date	 	Plan Date: 12/21/2018 Design By: STJ Drawn By: DCP Checked By: DTK	 QUINCY ENGINEERING 3400 DOUGLAS BOULEVARD, SUITE 190 ROSEVILLE, CA 95661 P: 916.368.9181 - F: 916.368.1308 - www.quincyceng.com	 NEVADA IRRIGATION DISTRICT 1036 WEST MAIN ST. GRASS VALLEY, CA 95945	IMPROVEMENT PLANS FOR COMBIE PHASE 1 CANAL REPLACEMENT PROJECT PLAN AND PROFILE STA 79+50.00 TO STA 84+50.00	DRAWING NUMBER C116 SHEET NUMBER 36 of 45
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- NOTES:**
- FOR NOTES, SEE DRAWING C101.
 - REMOVE EXISTING 30" CMP AND REPLACE WITH 30" RCP IN ACCORDANCE WITH CALTRANS STANDARDS. SEE SHEET No. 14 OF COMBIE NORTH PHASE 1 AS-BUILT DRAWINGS.



Plan Date:	Revision Description	Rev.	By	App. By	Date

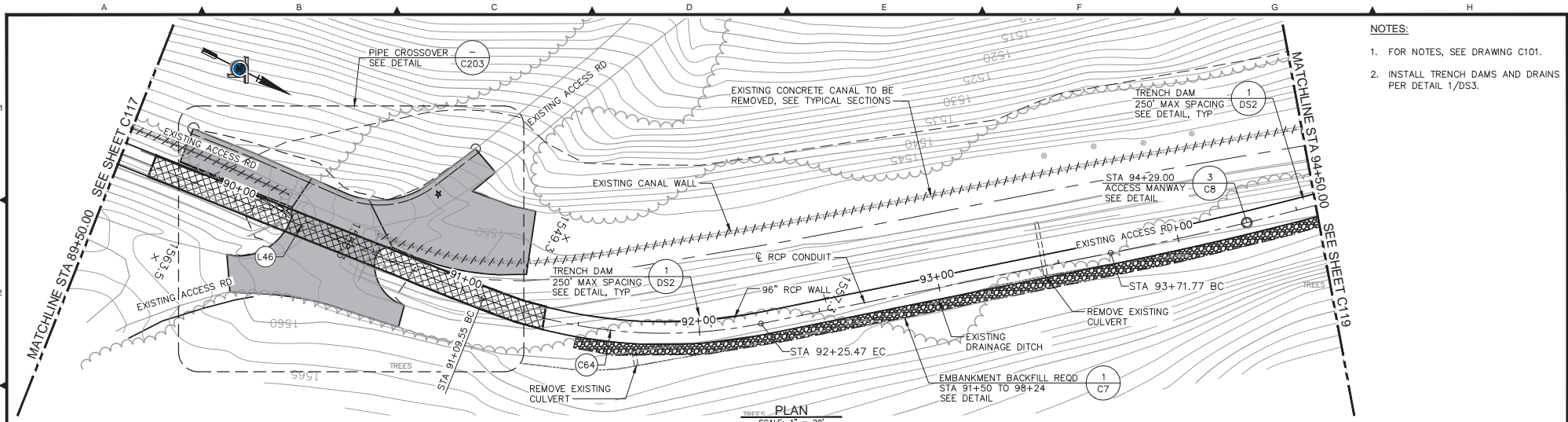
Professional Engineer stamps for D. TODD KOTE and SHAWN I. JOHNS.

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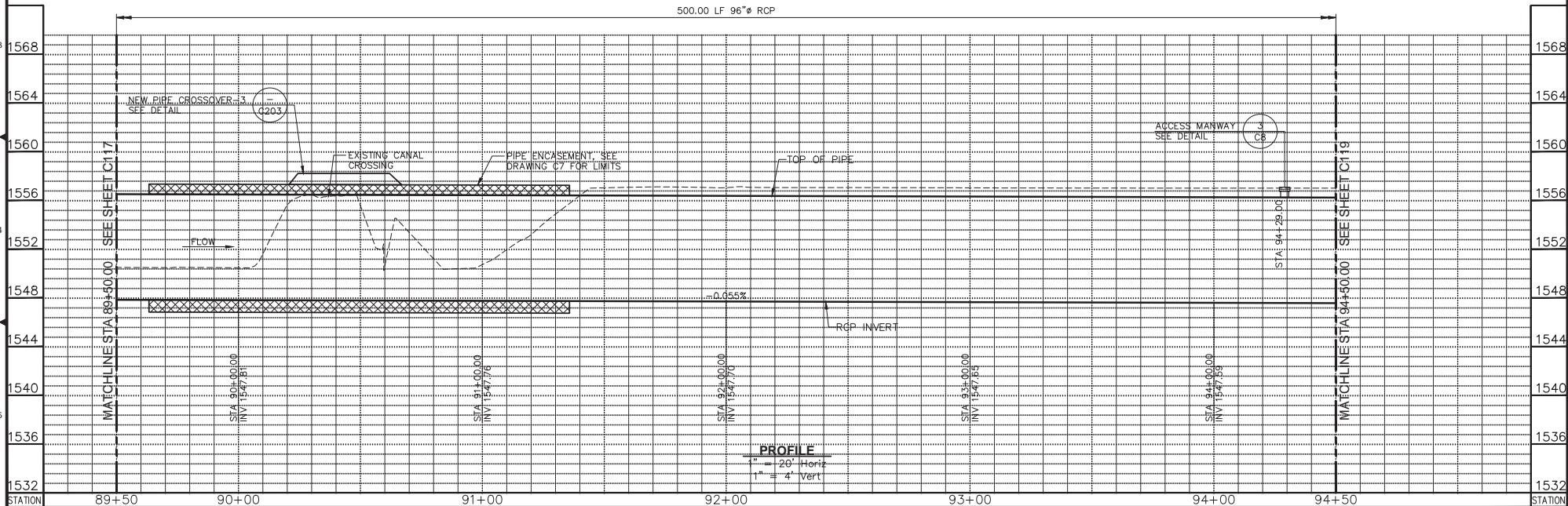
IMPROVEMENT PLANS FOR COMBIE PHASE 1 CANAL REPLACEMENT PROJECT
PLAN AND PROFILE
STA 84+50.00 TO STA 89+50.00

C117
DRAWING NUMBER
SHEET NUMBER
37 of 45



- NOTES:**
1. FOR NOTES, SEE DRAWING C101.
 2. INSTALL TRENCH DAMS AND DRAINS PER DETAIL 1/DS3.

PLAN
SCALE: 1" = 20'



PROFILE
1" = 20' Horiz
1" = 4' Vert

Plan Date:	Revision Description	Rev.	By	App. By	Date

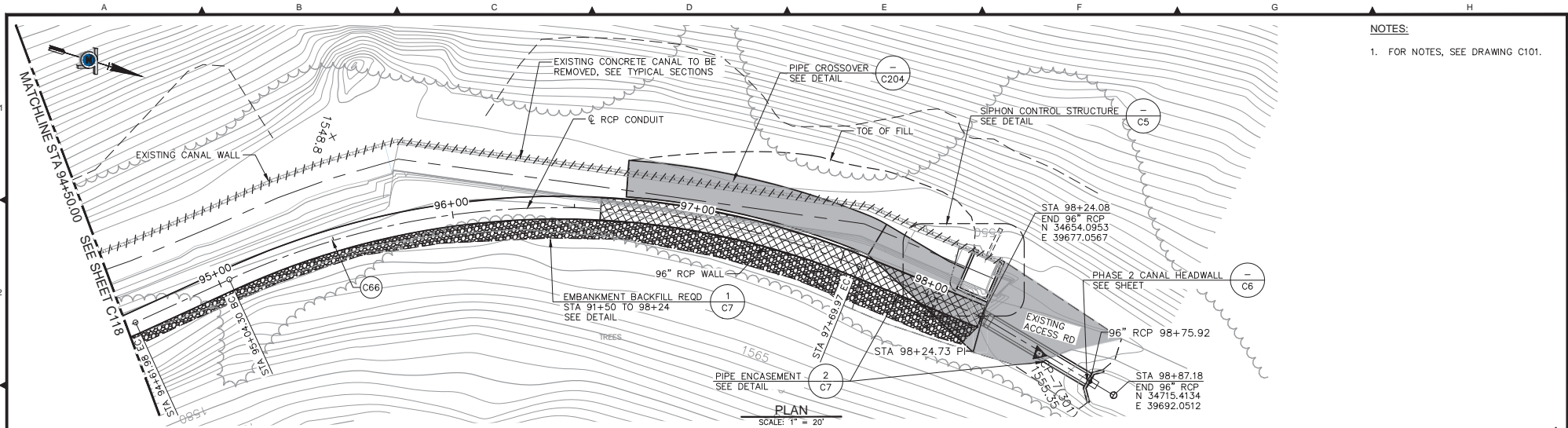
Professional Engineer stamps for D. TODD KOTER (No. 44811, Exp. 3/31/20) and SHAWN I. JOHNS (No. 54293, Exp. 12/31/19).

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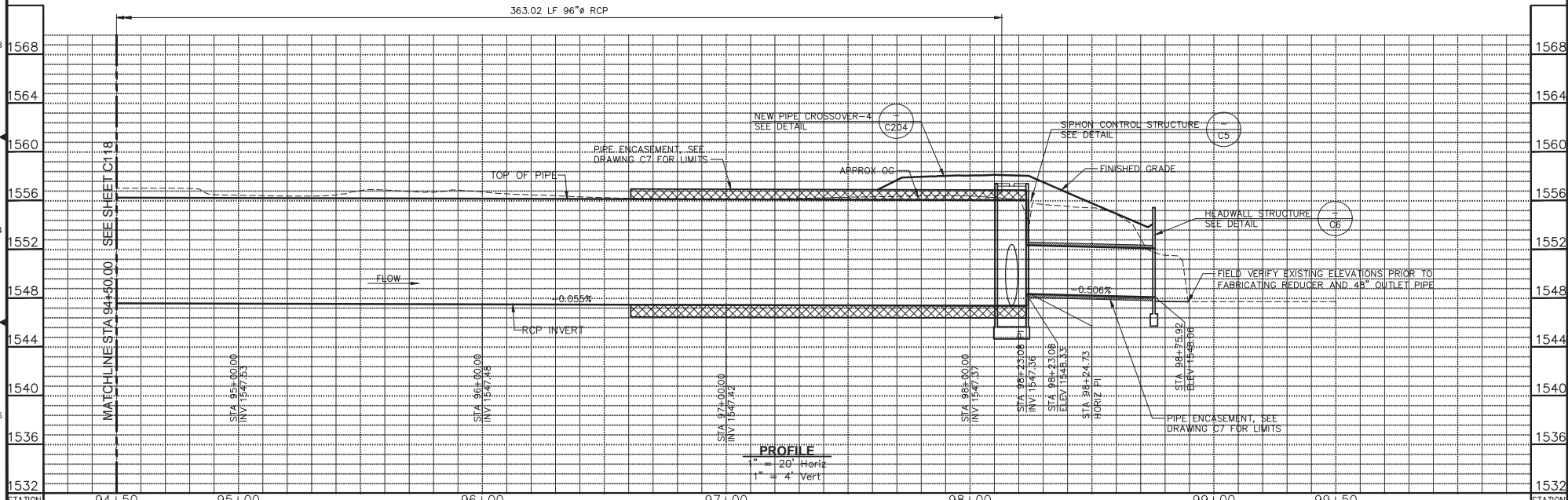
NEVADA IRRIGATION DISTRICT
1036 WEST MAIN ST. GRASS VALLEY, CA 95945

IMPROVEMENT PLANS FOR
COMBIE PHASE 1
CANAL REPLACEMENT PROJECT
PLAN AND PROFILE
STA 89+50.00 TO STA 94+50.00

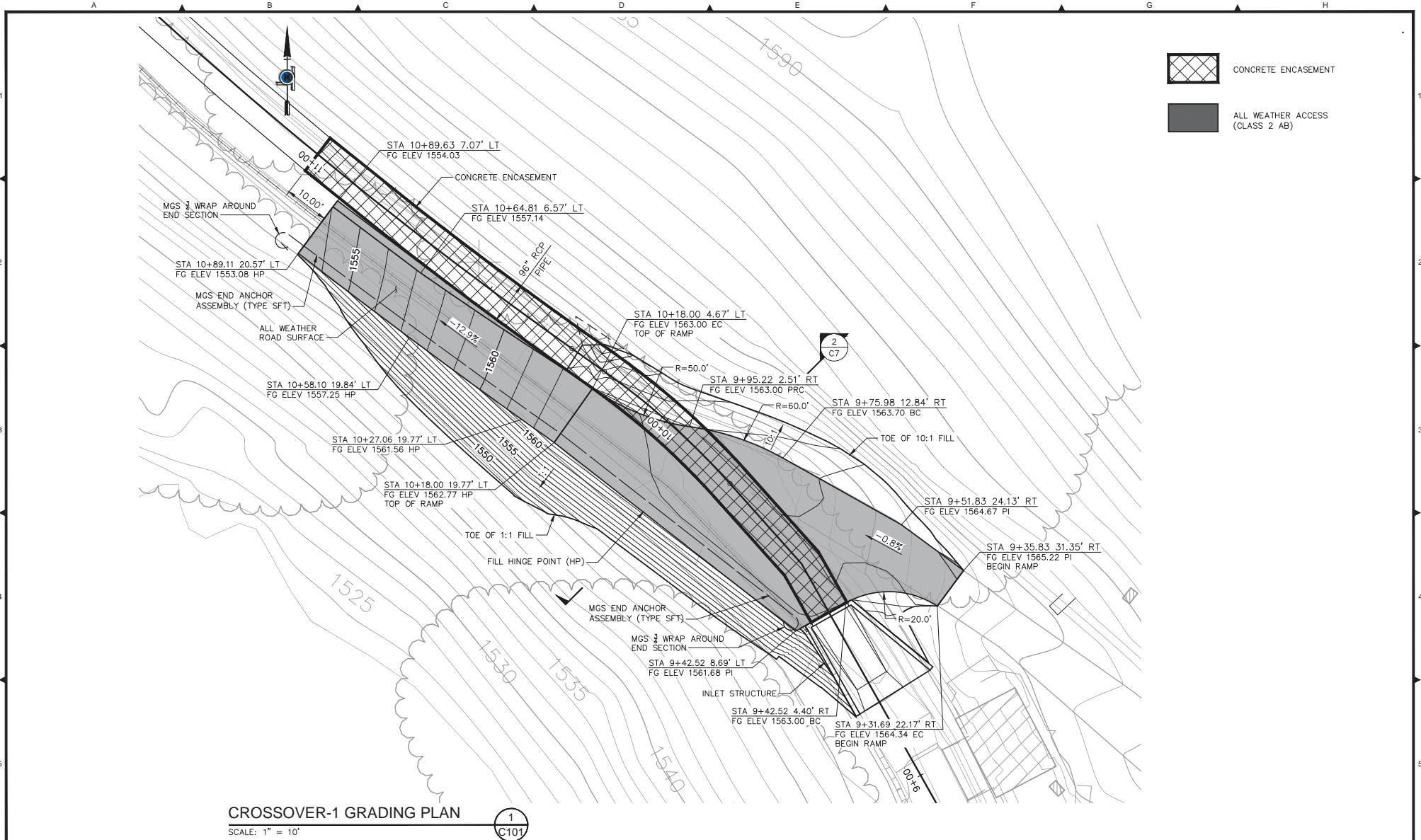
DRAWING NUMBER
C118
SHEET NUMBER
38 of 45



NOTES:
 1. FOR NOTES, SEE DRAWING C101.



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CROSSOVER-1 GRADING PLAN
 SCALE: 1" = 10'

1
C101

Plan Date:	Revision Description	Rev.	By	App. By	Date

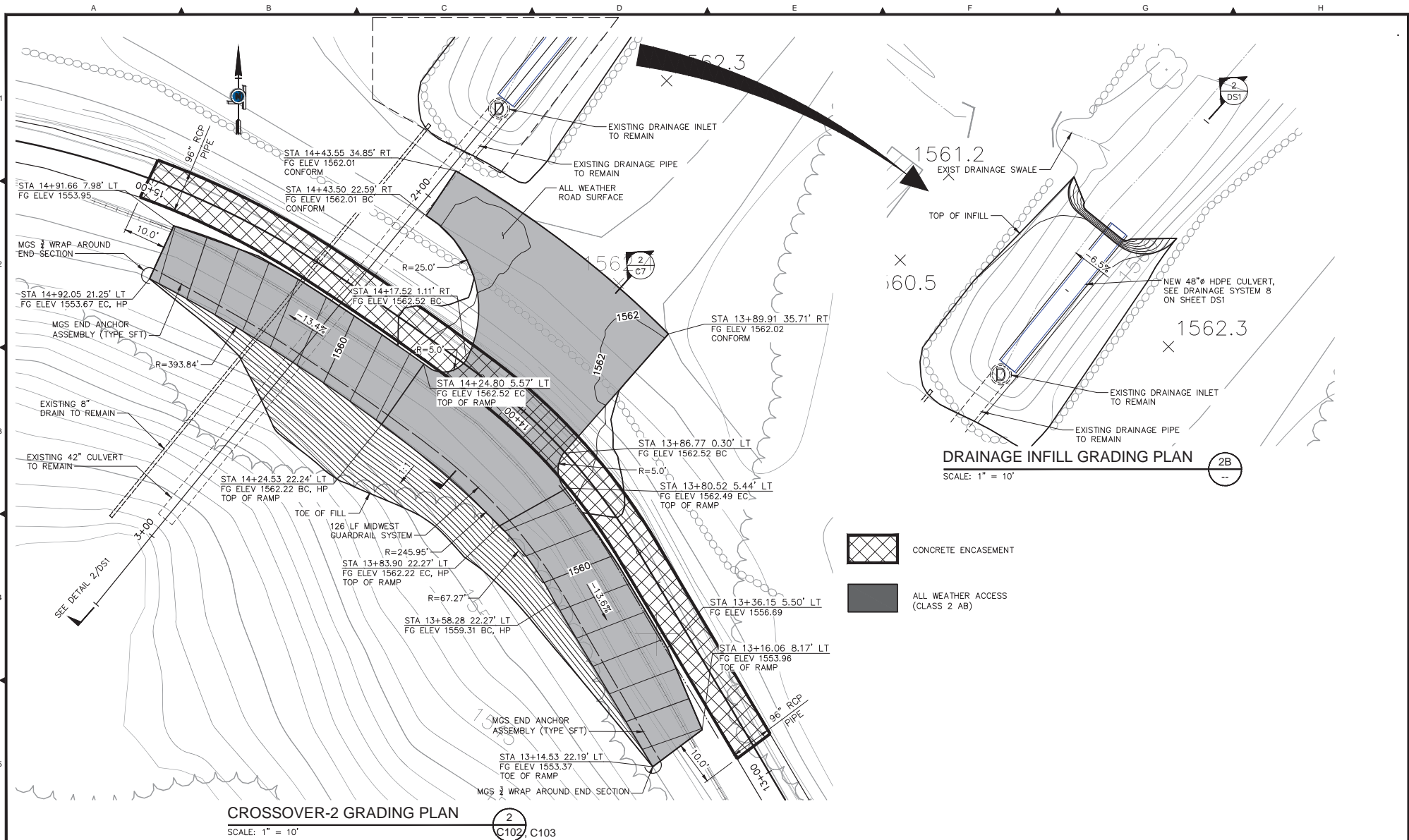
Plan Date: 12/21/2018
 Design By: STJ
 Drawn By: DCP
 Checked By: DTK

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IMPROVEMENT PLANS FOR
COMBIE PHASE 1
CANAL REPLACEMENT PROJECT
 GRADING
 CROSSOVER 1

DRAWING NUMBER: C201
 SHEET NUMBER: 40 of 45



CROSSOVER-2 GRADING PLAN
 SCALE: 1" = 10'
 2
 C102, C103

DRAINAGE INFILL GRADING PLAN
 SCALE: 1" = 10'
 2B

-  CONCRETE ENCASUREMENT
-  ALL WEATHER ACCESS (CLASS 2 AB)


Plan Date:	Revision Description	Rev. By:	App. By:	Date



Plan Date: 12/21/2018
 Design By: STJ
 Drawn By: DCP
 Checked By: DTK



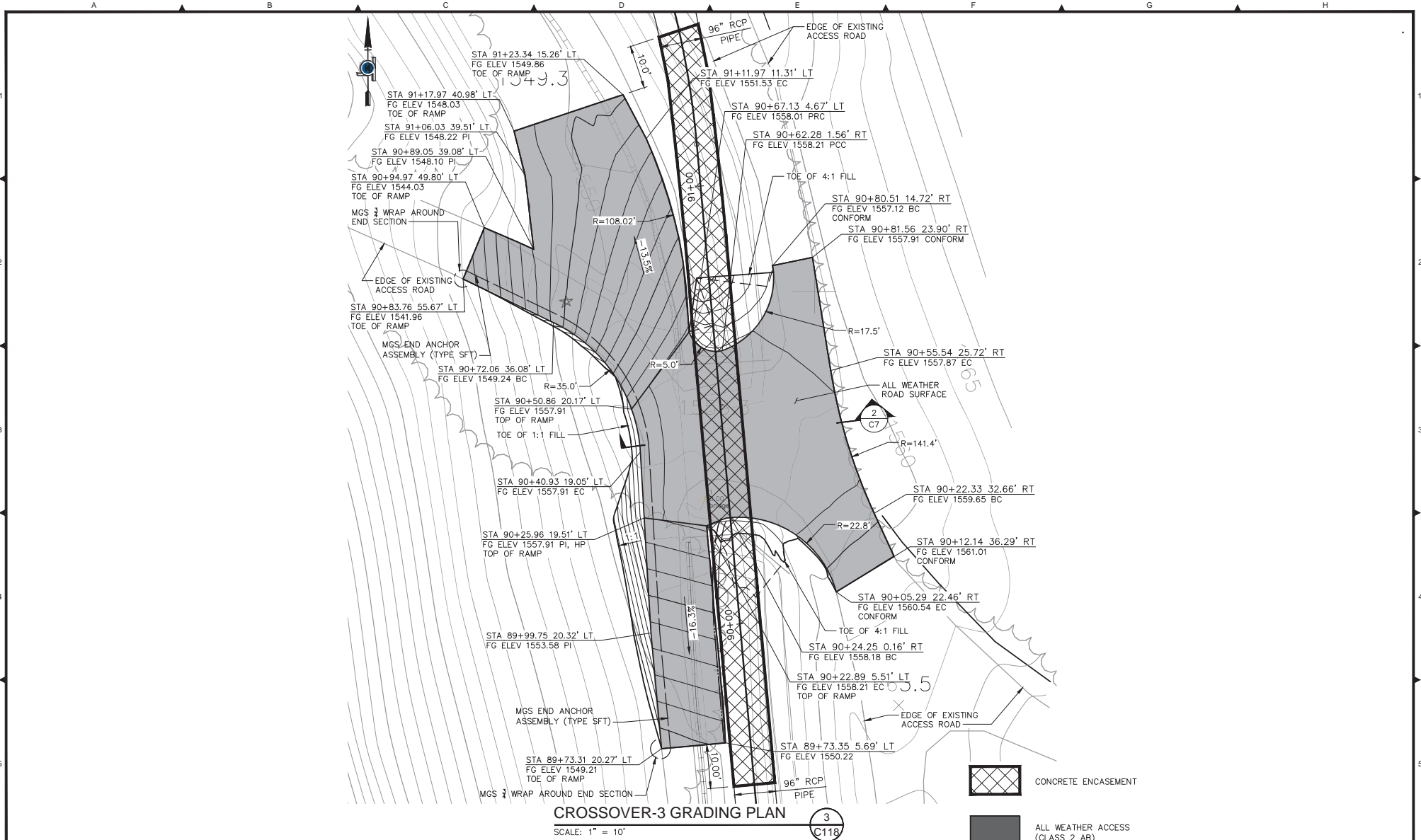
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IMPROVEMENT PLANS FOR
COMBIE PHASE 1
CANAL REPLACEMENT PROJECT
 GRADING
 CROSSOVER 2

DRAWING NUMBER: **C202**
 SHEET NUMBER: 41 of 45



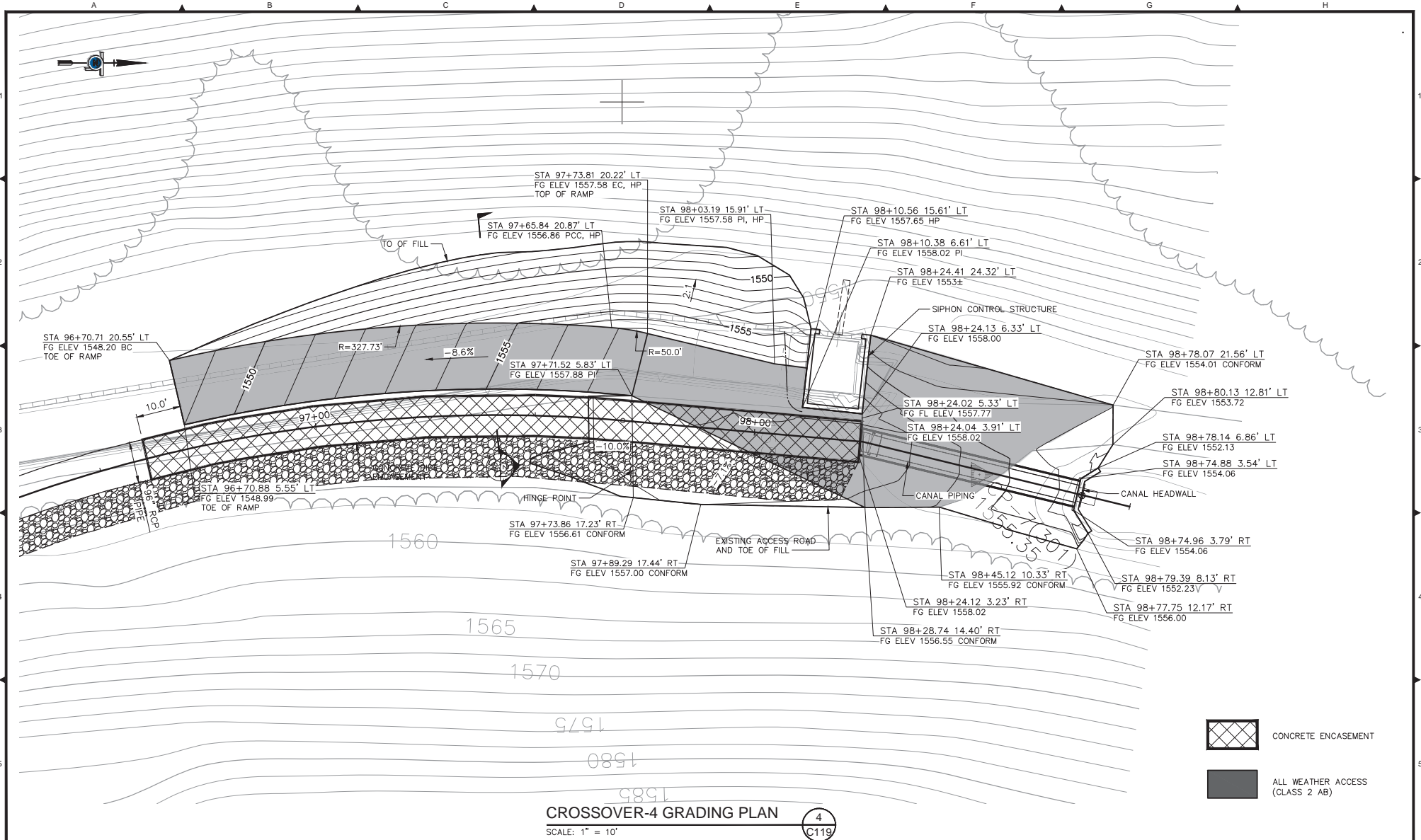
Plan Date:	Revision Description	Rev. By	App. By	Date



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IMPROVEMENT PLANS FOR
COMBIE PHASE 1
CANAL REPLACEMENT PROJECT
GRADING
CROSSOVER 3

DRAWING NUMBER
C203
 SHEET NUMBER
 42 of 45



-  CONCRETE ENCASUREMENT
-  ALL WEATHER ACCESS (CLASS 2 AB)


Plan Date:	Revision Description	Rev. By:	App. By:	Date




Plan Date: 12/21/2018
 Design By: STJ
 Drawn By: DCP
 Checked By: DTK



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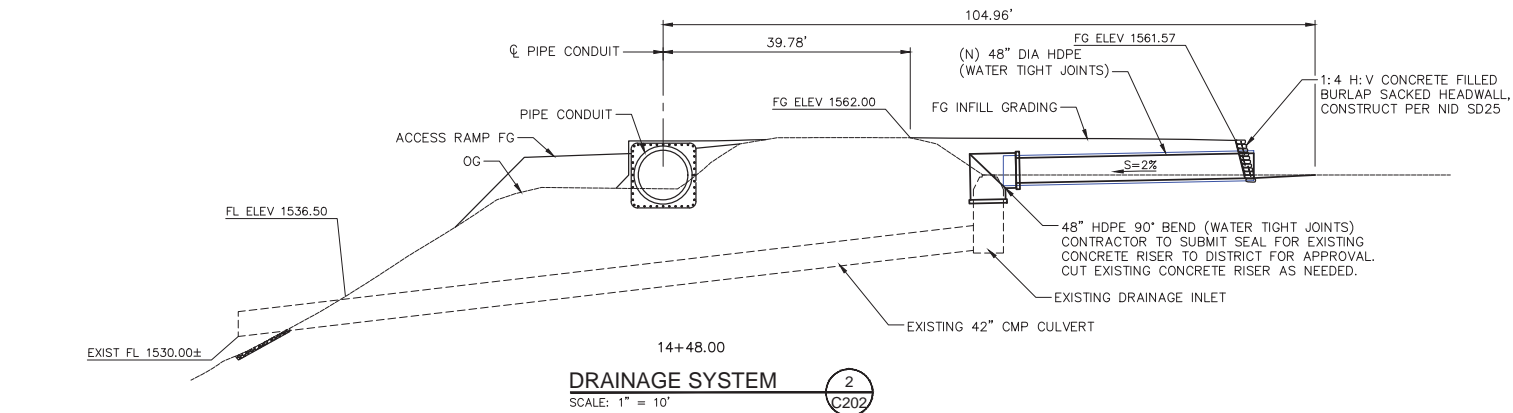
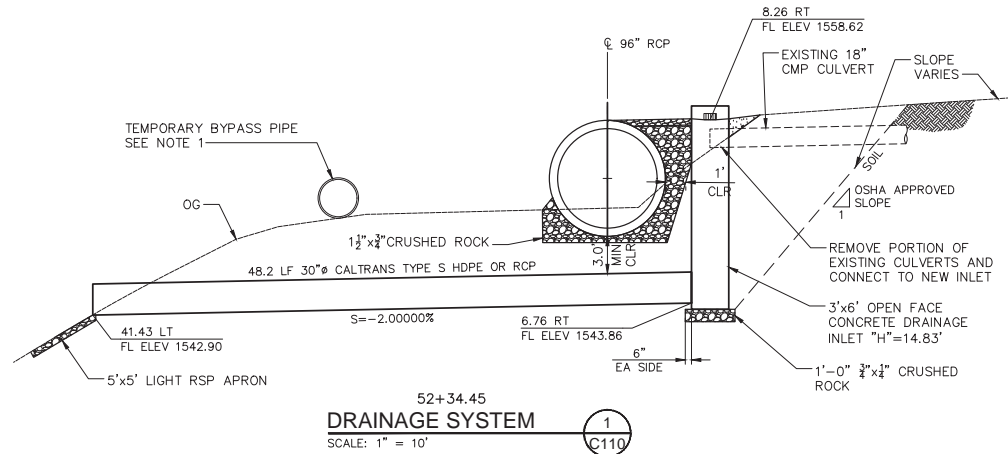
NEVADA IRRIGATION DISTRICT
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IMPROVEMENT PLANS FOR
COMBIE PHASE 1
CANAL REPLACEMENT PROJECT
GRADING CROSSOVER-3

DRAWING NUMBER: **C204**
 SHEET NUMBER: 43 of 45

NOTE:

1. SIZE AND LOCATION OF THE BYPASS PIPELINE AND PLACEMENT AT GRADE OR BELOW GRADE TO BE DETERMINED BY THE CONTRACTOR. REFER TO SPEC SECTION 01550 FOR TEMPORARY BACKFILL REQUIREMENTS.
2. FOR HDPE CULVERTS, REFER TO CALTRANS 2015 STANDARD DETAIL A62F FOR BACKFILL REQUIREMENTS.
3. FOR RCP CULVERTS, REFER TO CALTRANS 2015 STANDARD DETAIL A62D BACKFILL REQUIREMENTS.
4. FURNISH AND INSTALL ALL CULVERTS PER CALTRANS STANDARDS.



Plan Date:	Revision Description	Rev. By:	App. By:	Date



Plan Date: 12/21/2018
 Design By: STJ
 Drawn By: DCP
 Checked By: DTK

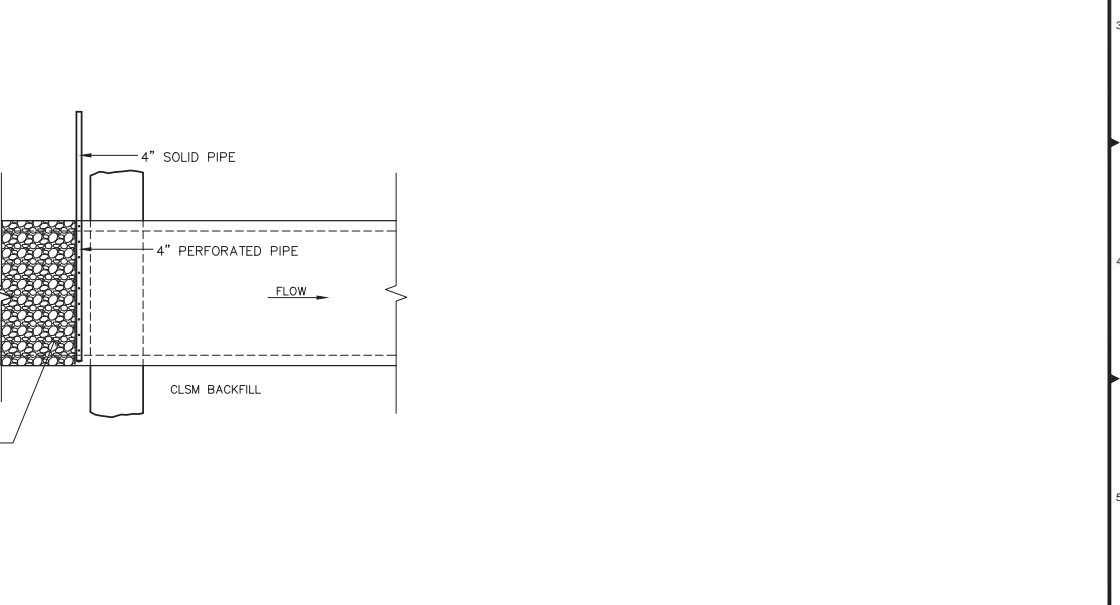
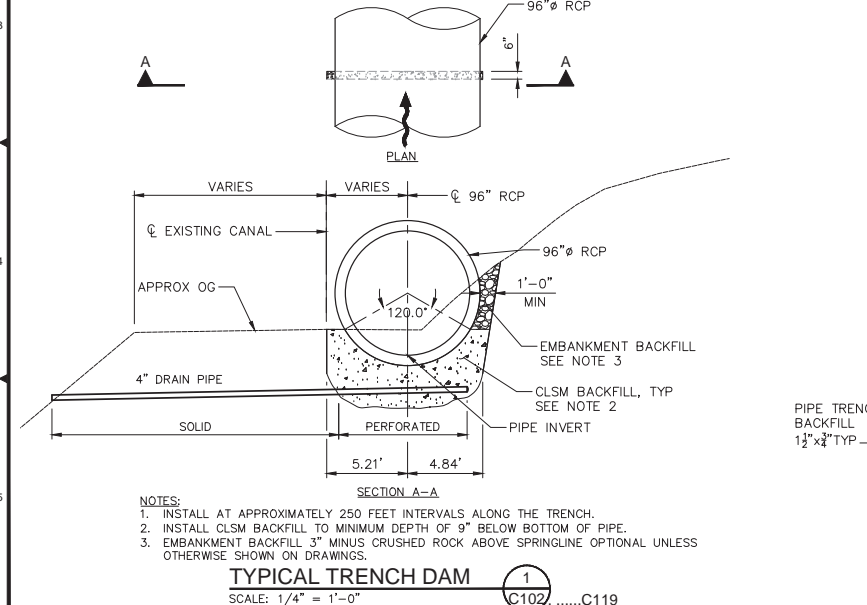
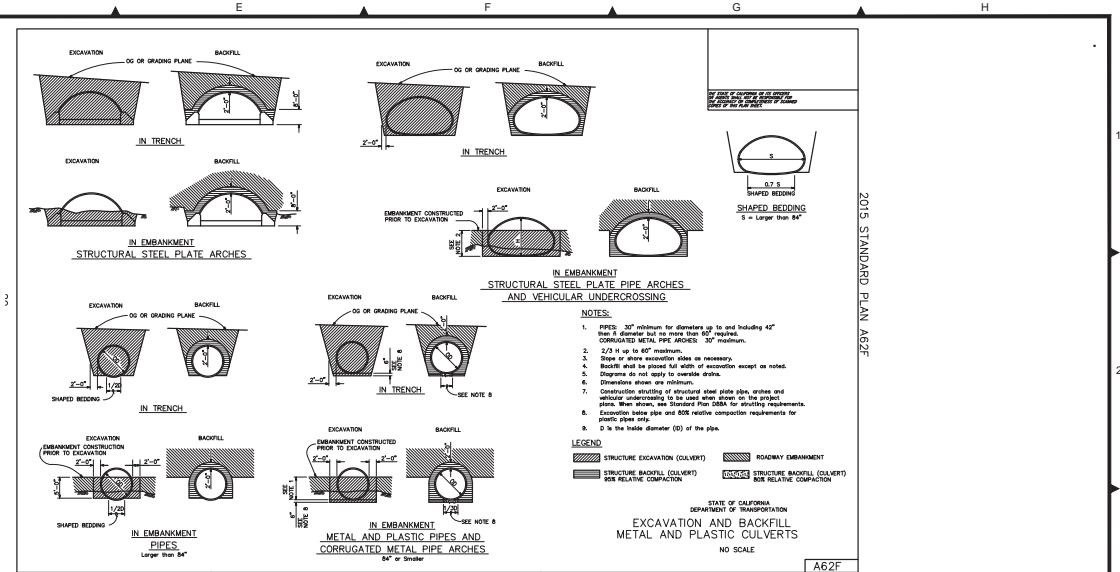
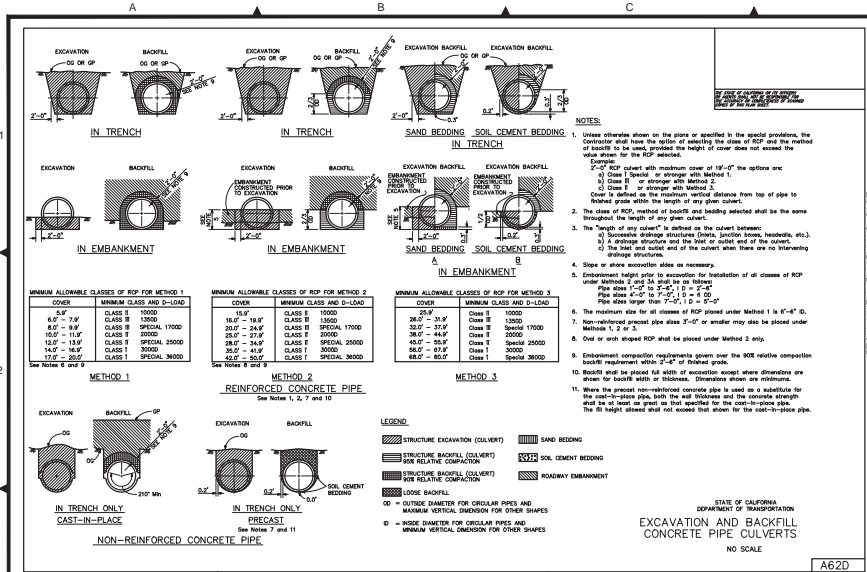
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IMPROVEMENT PLANS FOR
COMBIE PHASE 1
CANAL REPLACEMENT PROJECT
DRAINAGE SYSTEMS
 STA 26+92.56 TO STA 82+38.34

DRAWING NUMBER	DS1
SHEET NUMBER	44 of 45



Plan Date:	Revision Description	Rev. By	App. By	Date

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DRAWING NUMBER: DS2	SHEET NUMBER: 45 of 45
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