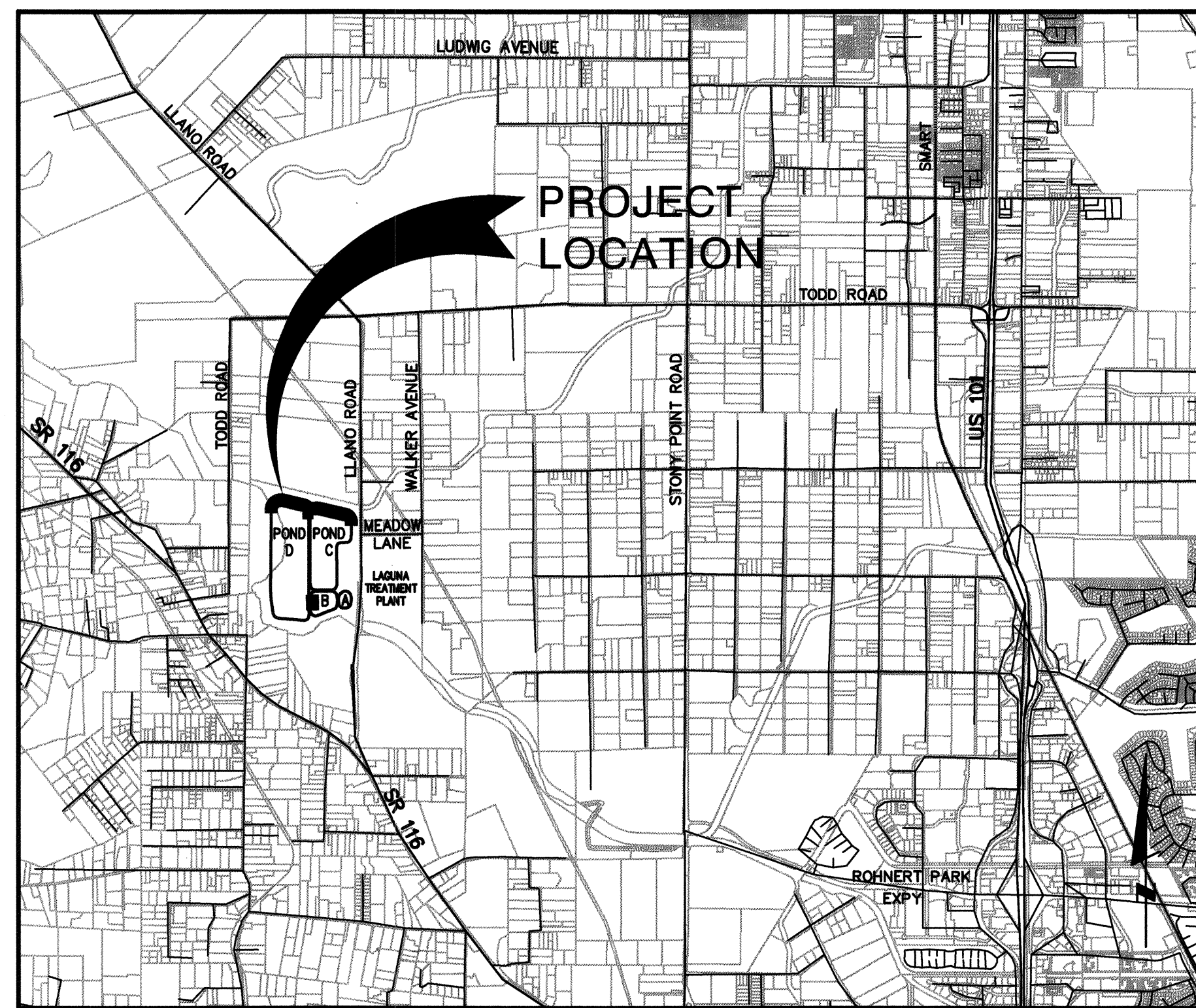


CITY OF SANTA ROSA
IMPROVEMENT PLANS FOR

CONTRACT NO. C01909



LOCATION MAP

NOT TO SCALE

INDEX OF SHEETS	
<u>SHEET NO.</u>	<u>DESCRIPTION</u>
1	COVER
2	ABBREVIATIONS, LEGEND, NOTES, SHEET LAYOUT & SURVEY CONTROL DATA
3	OVERALL SITE & LAYOUT PLAN
4	POND D GRADING PLAN
5	POND D TYPICAL SECTIONS
6	POND D CROSS SECTIONS
7	POND D CROSS SECTIONS
8	POND C GRADING PLAN STA.1+00 - STA.10+00
9	POND C GRADING PLAN STA.10+00 - STA.18+50
10	POND C TYPICAL SECTIONS
11	POND C CROSS SECTIONS
12	POND C CROSS SECTIONS
13	POND B GRADING PLAN
14	POND B TYPICAL SECTION
15	POND B CROSS SECTIONS

RECORD PLAN DATA	
PROJECT START:	WATER SERVICE TYPE:
PROJECT END:	MANUFACTURER:
GEN. CONTRACTOR:	FIRE HYDRANT TYPE:
SUPERINTENDENT:	MANUFACTURER:
UNDERGROUND CONTRACTOR:	INSPECTOR:
FOREMAN:	CONSTRUCTION MANAGER:
SEWER PIPE TYPE:	RECORD PLANS BY:
MANUFACTURER:	ADDITIONAL INFO:
SEWER FITTINGS MANUFACTURER:	
M.H. MANUFACTURER:	
WATER PIPE TYPE:	
MANUFACTURER:	
WATER VALVE MANUFACTURER:	
WATER FITTINGS MANUFACTURER:	

BEFORE EXCAVATING
CALL U.S.A.
UNDERGROUND SERVICE ALERT
800-642-2444
TWO WORKING DAYS BEFORE ALL
PLANNED WORK OPERATIONS

FINAL PAY ITEM(S)	
BID ITEM(S) NAME AND QUANTITY	
STRIPPING AND DISPOSING OF ORGANICS	46,250 SY
EMBANKMENT EXCAVATION	16,675 CY
POND BOTTOM FILL	12,000 CY
EMBANKMENT FILL	1,155 CY
RIPRAP KEYWAY EXCAVATION	1,370 CY

[illegible]

AB	AGGREGATE BASE	MIN	MINIMUM
AC	ASPHALT CONCRETE	MISC	MISCELLANEOUS
ACP	ASBESTOS CEMENT PIPE	MJ	MECHANICAL JOINT
AD	ALGEBRAIC DIFFERENCE	MSL	MEAN SEA LEVEL
ADA	AMERICANS WITH DISABILITIES ACT	N	NORTH
ADPT	ADAPTER	NUMBER	NUMBER
AGG	AGGREGATE	NA	NOT APPLICABLE
ALUM	ALUMINUM	NIC	NOT IN CONTRACT
AN	ANGLE POINT	NPT	NATIONAL PIPE THREAD
APN	ASSESSORS PARCEL NUMBER	OC	ON OVERHEAD
APPROX	APPROXIMATE	OD	OUTSIDE DIAMETER
ARV	AIR RELEASE VALVE	OH	OVERHEAD
AVE	AVENUE	OZ	OUNCE
BC	BEGIN HORIZONTAL CURVE	PA	PLANTER AREA
BLDG	BUILDING	PC	POINT OF CURVATURE
BLVD	BOULEVARD	PCC	POINT OF COMPOUND CURVATURE
BM	BENCHMARK	PCC	PORTLAND CEMENT CONCRETE
BO	BLOWOFF	PD	PLANTER DRAIN
BV	BUTTERFLY VALVE	PLAIN	PLAIN END
BVC	BEGIN VERTICAL CURVE	PG	PAD GRADE
BSW	BACK OF SIDEWALK	PV	POST INDICATOR VALVE
BT	BOTTOM OF TAPER	PL	PROPERTY LINE
B&R	BREJLE & RACE	PN	PAVING NOTCH
CAV	COMBINATION AIR AND VACUUM RELEASE VALVE	PCC	POINT OF CONNECTION
		PCS	POINT OF CURVATURE
CB	CATCH BASIN	POS	PRIVATE OPEN SPACE
CBC	CALIFORNIA BUILDING CODE	POINT	POINT ON TANGENT
CDI	CONTROLLED DENSITY FILL	PP	POWER POLE
CHK	CHECK	PR	POINT OF REVERSE CURVATURE
CIPP	CAST-IN-PLACE PIPE	PRV	PRESSURE REDUCING VALVE
CL	CENTERLINE	PSI	POUND PER SQUARE INCH
CL	CENTERLINE	PSV	PRESSURE SUSTAINING VALVE
CL	CLEAR	PT	POINT OF TANGENCY
CLR	CLEAR	PUE	PUBLIC UTILITY EASEMENT
CMP	CORRUGATED METAL PIPE	PVC	POLYVINYL CHLORIDE
CMPA	CORRUGATED METAL PIPE ARCH	PVI	POINT OF VERTICAL INTERSECTION
CM	CLEANOUT	PVMT	PAVED MANT
COAX	COAXIAL CABLE	PWE	PUBLIC WATER EASEMENT
CONC	CONCRETE	R	RADIUS
COND	CONDUIT	RAW	RAW WATER
COTG	CLEANOUT TO GRADE	RC	RELIEF COMPACTON
CP	CONTROL POINT	RCB	REINFORCED CONCRETE BOX
CPGL	COUPLING	RCP	REINFORCED CONCRETE PIPE
CR	CURB RETURN	RD	ROAD
CSP	CORRUGATED STEEL PIPE	ROD	ROD DRAIN
CTR	CENTER	REOF	REDUCER
CY	CUBIC YARDS	REF	REFERENCE
C/C	CENTER TO CENTER	REBP	REDUCED PRESSURE
C&G	CURB AND GUTTER		BACKFLOW PREVENTER
DBI	DOUBLE CHECK DETECTOR CHECK RT	RSC	REMOTE SUPERVISORY CONTROL
DDC	DOUBLE DETECTOR CHECK	RIGHT	RIGHT
DET	DETECTOR	RT	RING TIGHT
DI	DROP INLET	RW	RECYCLED WATER
DIA	DIAMETER	R/W	RAIN WATER LEADER
DIP	DUCTILE IRON PIPE	S	RIGHT OF WAY
DR	DRIVE	S	SOUTH
DS	DOWNSPOUT	S	SLOPE
DS	DOWNSPOUT	S.A.D.	SEE ARCHITECTURAL DRAWINGS
DWG	DRAWING	SCADA	SUPERSYSTEM CONTROL AND DATA ACQUISITION
D/W	DRIVEWAY	SCH	SCHEDULE
E	EAST	SD	STORM DRAIN
EC	EAST HORIZONTAL CURVE	SDD	STORM DRAIN CATCH BASIN
ECC	ECCENTRIC	SDCO	STORM DRAIN CLEANOUT
EFFL	EFFLUENT (SEWER)	SDDI	STORM DRAIN DROP INLET
EG	EXISTING (SEWER)	SDS	STORM DRAIN EASEMENT
EL	EXISTING GROUND	SDMH	STORM DRAIN MANHOLE
ELEV	ELEVATION	SE	SEWER EASEMENT
ELEC	ELECTRICAL	S.E.D.	SEE ELECTRICAL DRAWINGS
ELL	ELBOW	SF	SQUARE FEET
EP	EDGE OF PAVEMENT	SUBGRADE	SUBGRADE
ESMT	EASEMENT	S.L.D.	SEE LANDSCAPE DRAWINGS
EVC	END VERTICAL CURVE	SOF	SLIP ON FLANGE
EW	EACH WAY	S	SIDE OPENING (SD)
EX	EXISTING	S.P.D.	SEE PLUMBING DRAWINGS
EXIST	EXISTING	SPEC	SPECIFICATION
FC	FLANGED COUPLING ADAPTER	SS	STAINLESS STEEL
FDC	FIRE DEPARTMENT CONNECTION	SS	SANITARY SEWER
FES	FLARED END SECTION	SSCO	SANITARY SEWER CLEANOUT
FG	FINISHED FLOOR	S.S.D.	SEE STRUCTURAL DRAWINGS
FG	FINISHED GRADE	SSMH	SANITARY SEWER MANHOLE
FH	FIRE HYDRANT	STREET	STREET
F	FLOWLINE	STA	STATION
FL	FLANGE	STD	STANDARD
FLG	FLANGE	STL	STEEL
FLSO	FLOWLINE OF SIDE OPENING	SWC	SERVICE
FLEX	FLEXIBLE	SVE	SIDEWALK EASEMENT
FM	FORCE MAIN (PRESSURE)	SQ	SQUARE YARDS
FRP	FIBERGLASS REINFORCED PLASTIC	S/W	SIDEWALK
FT	FEET	T	TANGENT
FTG	FOOTING	TAN	TANGENT
GALV	GALVANIZED	TB	TOP OF BOX
GB	GRADE BREAK	TC	TOP OF CURB
GPM	GALLONS PER MINUTE	TCE	TEMPORARY CONSTRUCTION
GRD	GROUND	EASEMENT	EASEMENT
GSP	GALVANIZED STEEL PIPE	TEL	TELEPHONE
GVS	GAS VALVE	TEMP	TEMPORARY
GV	GATE VALVE	TH	TOP OF FOUNDATION
HB	HOSE BIBB	TH	TOP OF GRATE
HB	HEADER BOARD	THD	THREADED
HG	HOT DIPPEED GALVANIZED	TS	TOP OF SLAB
HDPE	HIGH DENSITY POLYETHYLENE	TT	TOP OF TAPER
HP	HIGH POINT	TW	TOP OF WALL
HFG	HIGH PRESSURE GAS	TYPICAL	TYPICAL
HWY	HYDRAULIC	UFFG	UNDER FLOOR FINISHED GRADE
ICV	IRRIGATION CONTROL VALVE	UNO	UNLESS NOTED OTHERWISE
ID	INSIDE DIAMETER	VC	VERTICAL CURVE
IN	INVERT	WEST	WEST
IP	IRON PIPE	W	WATER
IPS	IRON PIPE SIZE	WM	WATER METER
IRR	IRRIGATION	WNF	WELD NECK FLANGE
ISA	INTERNATIONAL SYMBOL OF ACCESSIBILITY	WS	WATER SERVICE
		WT	WATER VALVE
JP	JOINT POLE	WV	WATER VALVE
JT	JOINT TRENCH		DEGREES
L	ARC LENGTH	+	MINUTES
L	LENGTH	-	MINUTES
LF	LINEAL FEET	Δ	DELTA
LG	LIP OF GARAGE	AND	AND
LG	LIP OF GUTTER	AT	AT
LP	LIP POINT		

<u>UTILITIES</u>	
BOUNDARY	-----
PARCEL	-----
CENTER	-----
EASEMENT	-----
 <u>UTILITY LINES</u>	
STORM DRAIN	
WATER	
SEWER	
GAS	
ELECTRICAL	
TELEPHONE	
TELEVISION	
JOINT TRENCH	
 <u>TOPOGRAPHY</u>	
DROP INLET	
DROP INLET WITH SIDE OPENINGS	
WATER METER	
WATER VALVE	
BLOWOFF	
FIRE HYDRANT	
THRUST BLOCK	
GAS METER	
STORM DRAIN MANHOLE	
STORM DRAIN CATCH BASIN	
SEWER MANHOLE	
SEWER CLEANOUT	
JOINT POLE	
LIGHT STANDARD	
GUY/ANCHOR	
CURB & GUTTER	
AC DIKE	
FENCE	
CHAIN LINK FENCE	
DITCH/SWALE	
MONUMENT	
TREE PROTECTION	
FENCE	
TREE TO BE SAVED	
TREE TO BE REMOVED	

DETAIL REFERENCE

DETAIL

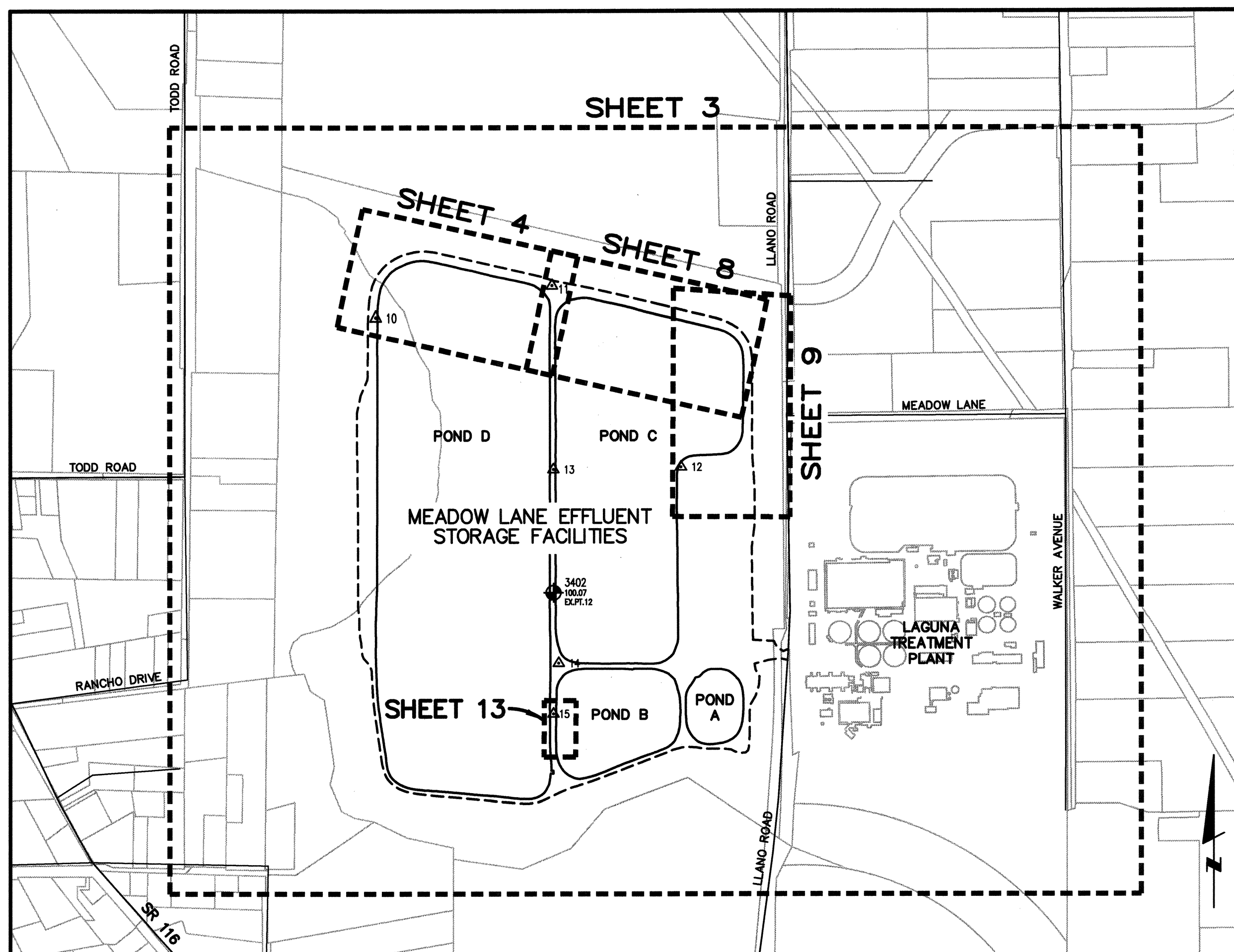
DRAWING REFERENCE NUMBER(S)

SECTION REFERENCE

SECTION NUMBER

DRAWING REFERENCE NUMBER(S)

1. THE WORK AS SHOWN ON THE PROJECT PLANS AND AS SPECIFIED IN THE CONTRACT DOCUMENTS SHALL BE CONSTRUCTED IN A SEQUENCE WHICH IS SATISFACTORY TO AND WHICH AS BEEN APPROVED BY THE ENGINEER. SEE SECTION 01 35 13 OF THE CONTRACT TECHNICAL SPECIFICATIONS FOR INFORMATION REGARDING THE SEQUENCE OF WORK AND REQUIREMENTS OF THE WORK PLAN.
2. THE CONTRACTOR SHALL OBTAIN APPROVAL OF ITS WORK PLAN AS INDICATED IN SECTION 01 35 13 - PART 1.05 OF THE CONTRACT TECHNICAL SPECIFICATIONS PRIOR TO COMMENCING WORK ON THE PROJECT OR ANY PART OF THE PROJECT. THE CONTRACTOR'S SCHEDULE SHALL SHOW THE CRITICAL PATH OF ITEMS WHICH CONTROL THE SCHEDULE.
3. THE PONDS WILL BE LOWERED AND TAKEN OUT OF SERVICE IN ACCORDANCE AND IN THE SEQUENCE INDICATED IN SECTION 01 35 13 - PART 1.04 OF THE CONTRACT TECHNICAL SPECIFICATIONS. WORK WITHIN EACH POND SHALL BE COMPLETED PRIOR TO THE EXPIRATION OF THE WORKING DAYS INDICATED IN SECTION 8-1.05 OF THE CONTRACT GENERAL SPECIFICATIONS.
4. THE CONTRACTOR SHALL MAKE THE NECESSARY EFFORTS TO Dewater AND DRY THE PONDS AS REQUIRED TO PERFORM THE WORK ACCORDING TO THE REQUIREMENTS OF THESE CONTRACT DOCUMENTS AND AS REQUIRED BY THEIR MEANS AND METHODS TO PERFORM THE WORK. POND WATER AND GROUNDWATER SHALL BE DISCHARGED INTO AN ADJACENT POND IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
5. THE CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING TEMPORARY CONSTRUCTION ACCESS TO THE POND BOTTOM AS NECESSARY TO COMPLETE THE WORK. UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL REMOVE ALL TEMPORARY ACCESS OR OBSTACLES OF ANY MATERIAL ON-SITE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS, AND RETURN THE UNDERLYING SURFACE TO ITS PRE-PROJECT CONDITION OR IMPROVED AS REQUIRED BY THE CONTRACT DOCUMENTS.
6. SITE GRADING SHALL BE DONE UNDER THE DIRECTION OF THE ENGINEER.
7. UPON COMPLETION OF EXCAVATION FOR ANY SECTION OF EMBANKMENT, A FIELD REVIEW OF THE EXCAVATED SUBGRADE SHALL BE PERFORMED BY THE ENGINEER. NO EMBANKMENT FILL SHALL BE PLACED PRIOR TO FAVORABLE REVIEW OF THE SUBGRADE AND FOUNDATION SURFACES BY THE ENGINEER. OVER EXCAVATION MAY BE NECESSARY IN ACCORDANCE WITH SPECIFICATION SECTION 31 23 00 AND AS REQUIRED BY THE ENGINEER.

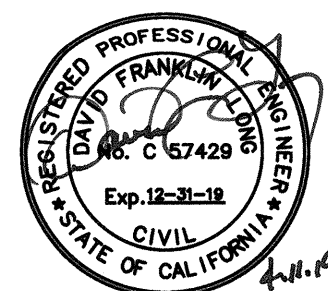


NOT TO SCALE

CONTROL POINT COORDINATE TABLE				
NO	NORTHING	EASTING	ELEV	TYPE
10	1898707.610	6339126.565	99.76	515_ IP 3/4 in. "CSR CONTROL"
11	1898862.800	6340052.924	100.97	515_ IP 3/4 in. "CSR CONTROL"
12	1897929.020	6340729.129	100.57	515_ IP 3/4 in. "CSR CONTROL"
13	1897915.303	6340059.750	99.84	515_ IP 3/4 in. "CSR CONTROL"
14	1898682.220	6340086.731	100.33	5240_ SET SPIKE
15	1898611.331	6340058.956	100.59	5240_ SET SPIKE

EXISTING CITY OF SANTA ROSA SURVEY CONTROL POINT #12, AS
SHOWN IN FIELD BOOK 177, PAGE 07 (POINT 3402 IN THIS
PROJECT), ESTABLISHED IN JUNE 2014
EL 100.07 (NAVD 88)

HORIZONTAL BASIS OF BEARING DETERMINED LOCALLY BY A LINE BETWEEN CONTINUOUS OPERATING REFERENCE SYSTEMS (CORS) STATION CASR AND STATION P196; BEING SOUTH 00°54'40" EAST AS DERIVED FROM GEODETIC VALUES PUBLISHED BY THE NATIONAL GEODETIC SURVEY.



City of
Santa Rosa

Brelje & Race
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475 Aviation Blvd. • Suite 120 • Santa Rosa, CA 95403 • 707-576-1322
www.brcs.com

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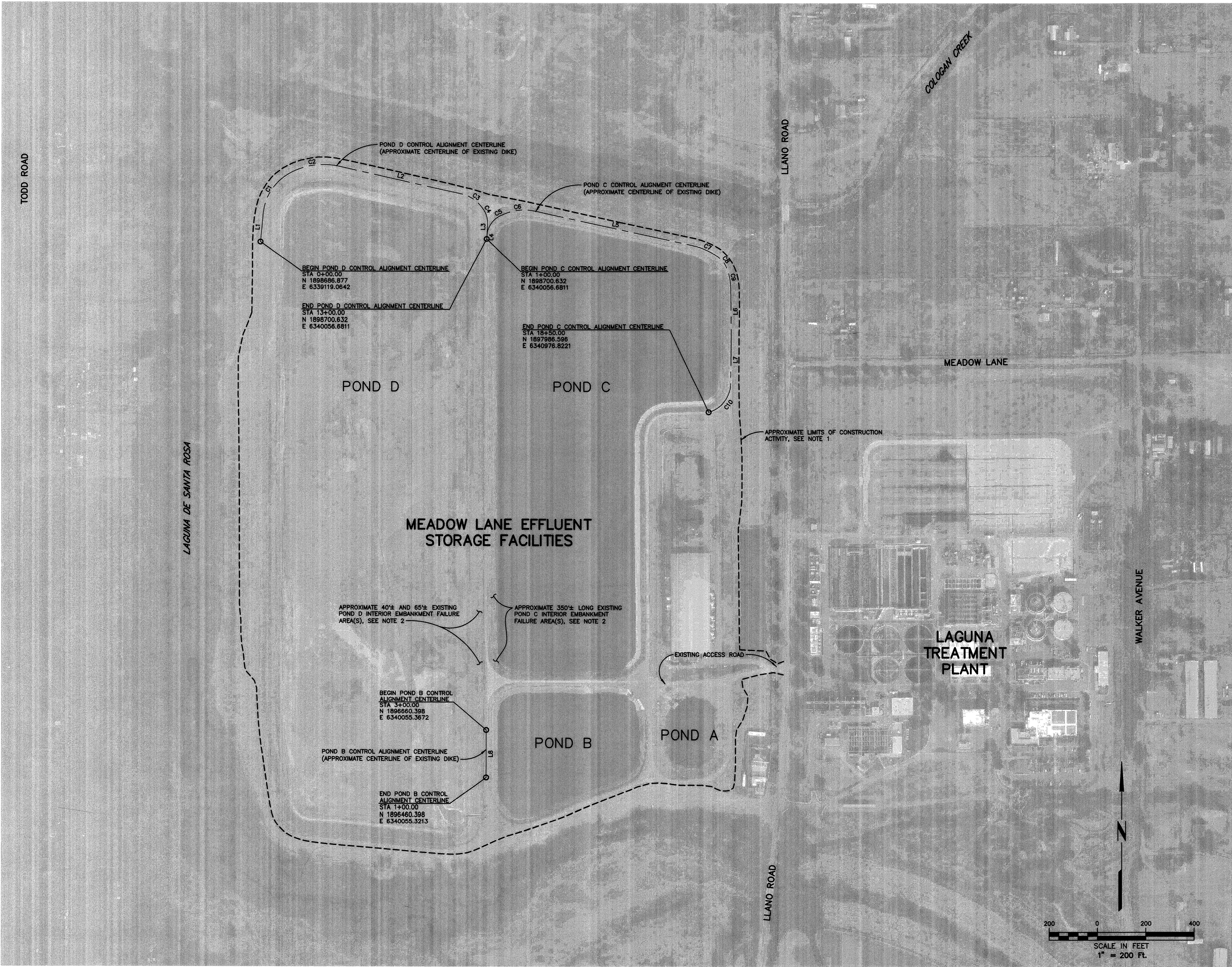
SCALE: AS SHOWN	DWN BY: PIT	CHK BY: BB
DATE: APRIL 2019		
APPROVED: Deputy Director - Engineering		
By: <i>Lori Urbanek</i>		Date: 4/15/19
Lori Urbanek		

City of Santa Rosa
NORTHERLY SLOPE PROTECTION
PONDS C & D AND POND B REPAIR
ABBREVIATIONS, LEGEND,
NOTES, SHEET LAYOUT &
SURVEY CONTROL DATA

CONTRACT NO.
C01909

SHEET 2 OF 15

FILE NO. 2019-0012



LINE TABLE		
LINE NO.	BEARING	LENGTH
L1	N51°5'21"E	119.33'
L2	S77°28'21"E	520.03'
L3	S2°48'41"W	63.45'
L4	N2°48'41"E	13.80'
L5	S77°28'20"E	666.86'
L6	S0°45'20"E	188.13'
L7	S0°41'28"W	203.19'
L8	N0°00'47"E	200.00'

CURVE TABLE			
CURVE NO.	DELTA	RADIUS	LENGTH
C1	54°05'11"	212.00'	200.12'
C2	43°13'07"	288.00'	217.24'
C3	45°34'01"	150.00'	119.29'
C4	34°41'01"	100.00'	60.53'
C5	60°33'42"	100.00'	105.70'
C6	39°09'17"	225.00'	153.76'
C7	23°23'36"	275.00'	112.28'
C8	32°28'46"	107.00'	60.66'
C9	20°50'38"	234.00'	85.13'
C10	73°33'42"	125.00'	160.48'

APPROXIMATE POND D EARTHWORK BALANCE	
EMBANKMENT EXCAVATION (CUT)	5,085 CY
RIPRAP KEYWAY EXCAVATION (CUT)	570 CY
POND BOTTOM FILL	4,015 CY
SHRINKAGE (8%)	320 CY
WASTE / STRIPPING	1,320 CY
APPROXIMATE BALANCE	0 CY

APPROXIMATE POND C EARTHWORK BALANCE	
EMBANKMENT EXCAVATION (CUT)	11,025 CY
RIPRAP KEYWAY EXCAVATION (CUT)	710 CY
POND BOTTOM FILL	7,630 CY
SHRINKAGE (8%)	610 CY
WASTE / STRIPPING	2,530 CY
APPROXIMATE BALANCE (EXPORT TO POND B)	255 CY

APPROXIMATE POND B EARTHWORK BALANCE	
IMPORT FROM POND C	255 CY
EMBANKMENT EXCAVATION (CUT)	1,085 CY
RIPRAP KEYWAY EXCAVATION (CUT)	90 CY
EMBANKMENT FILL	1,155 CY
SHRINKAGE (8%)	90 CY
WASTE / STRIPPING	185 CY
APPROXIMATE BALANCE	0 CY

- NOTES**
- LIMITS OF CONSTRUCTION ACTIVITY SHALL, GENERALLY BE CONFINED TO WITHIN THE OUTER GRADE BRAKE LIMITS OF THE EXISTING EFFLUENT STORAGE POND SYSTEM.
 - THE LOCATION OF EXISTING POND C AND D INTERIOR EMBANKMENT FAILURE AREAS IS SHOWN FOR INFORMATIONAL PURPOSES ONLY AND THE ACTUAL AREAS, LIMITS, AND SCOPE OF EMERGENCY EMBANKMENT REPAIR WORK TO BE PERFORMED WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.

REGISTERED PROFESSIONAL ENGINEER
FRANKLIN
Exp. 12-31-18
CIVIL
STATE OF CALIFORNIA - 57428
2-12-19

City of
Santa Rosa

Brelje & Race
1775 Warden Blvd., Suite 120 • Santa Rosa, CA 95402
www.brelje.com

DATE: APRIL 2019

CHK BY: BB

APPROVED: *[Signature]* for *[Signature]* Date: 4/15/19
Lori Urbanek

City of Santa Rosa

NORTHERLY SLOPE PROTECTION
PONDS C & D AND POND B REPAIR

OVERALL SITE & LAYOUT PLAN

CONTRACT NO.
C01909

SHEET 3 OF 15

FILE NO. 2019-0012

SCALE: AS SHOWN

DWN BY: PIT

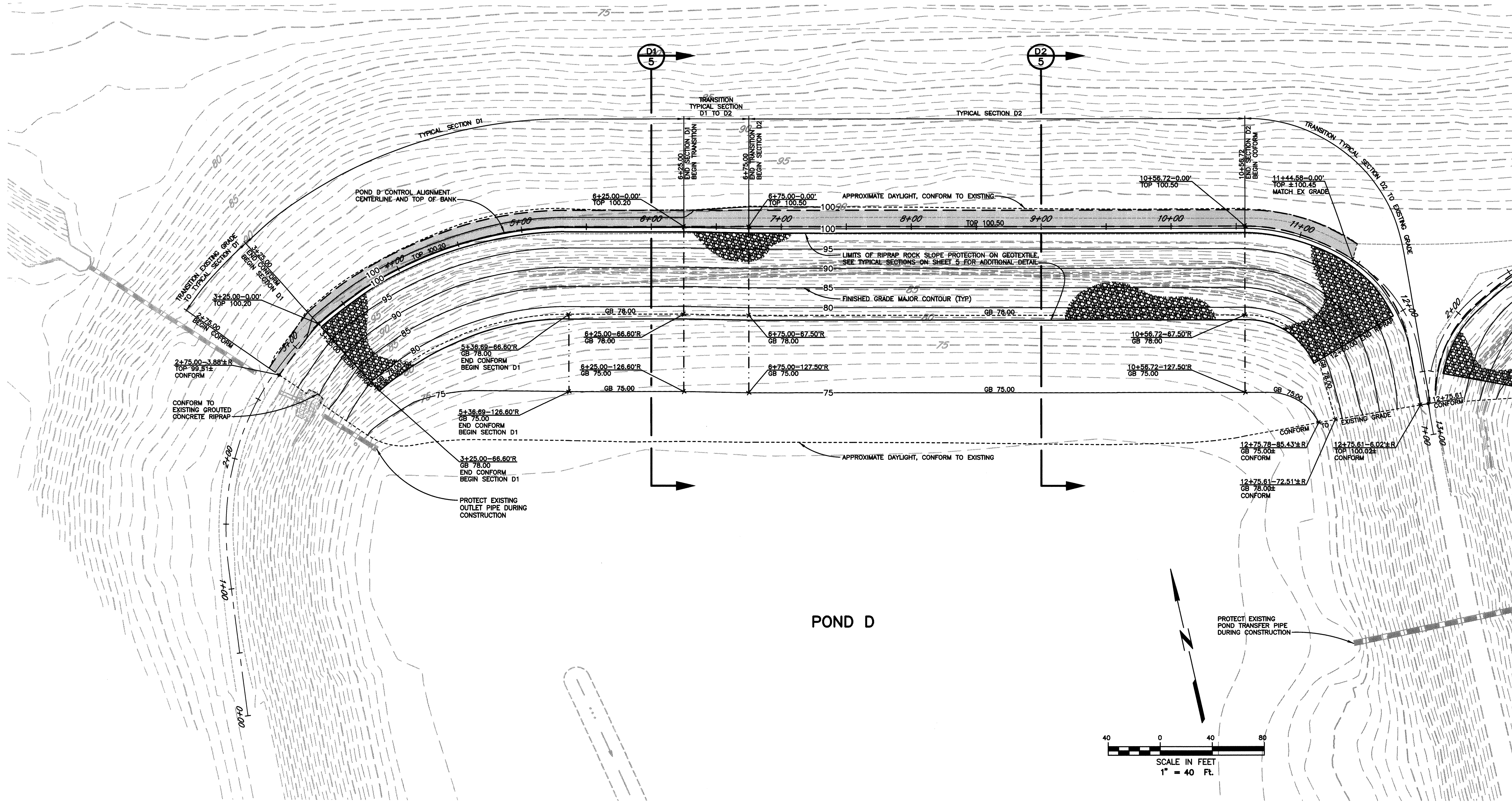
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DATE

REVISION

BY

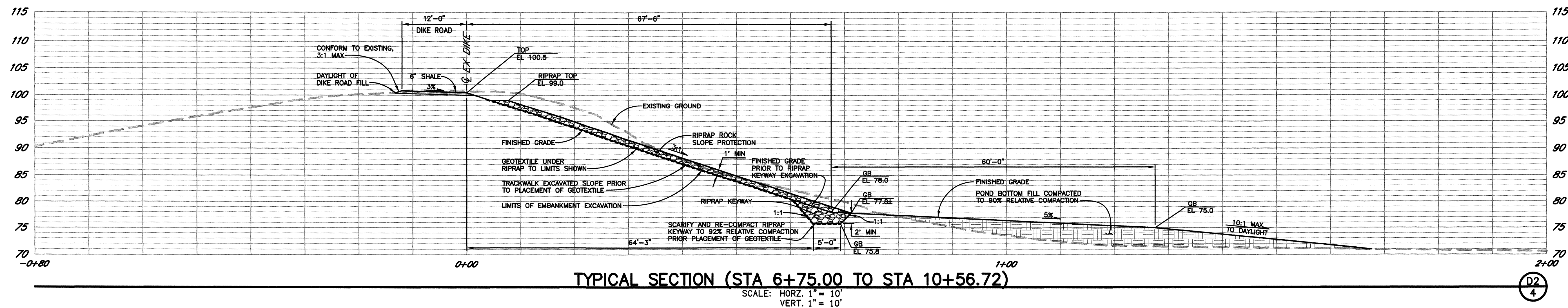
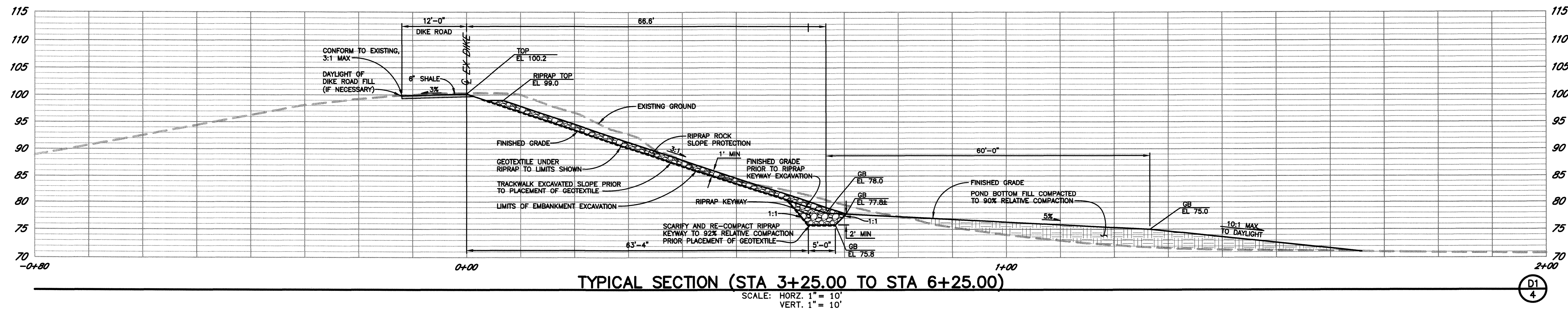
04-09-19 bryant \\3539.dwg 3539 08\3539.08 C and D POND-BASE.dwg TAB: 4 POND D



SEE SHEET 8 RIGHT (POND C GRADING PLAN)

City of Santa Rosa		DATE: APRIL 2019		SCALE: AS SHOWN		DWN BY: PIT		APPROVED: Deputy Director - Engineering		By: Lori Urbanek		NO.		DATE		REVISION		BY	
NORTHERLY SLOPE PROTECTION POND C & D AND POND B REPAIR								4/15/19											
POND D GRADING PLAN																			
CONTRACT NO. C01909																			
SHEET 4 OF 15																			
FILE NO. 2019-0012																			

City of Santa Rosa
Breje & Race
CONSULTING ENGINEERS
475 AVENUE B, SUITE 200, SANTA ROSA, CA 95405 (707) 535-5332
www.brejeandrace.com



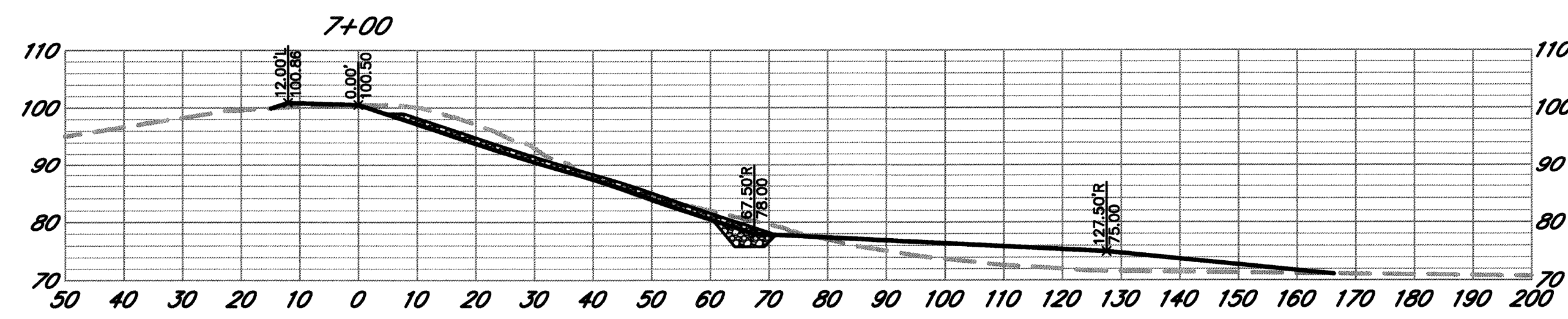
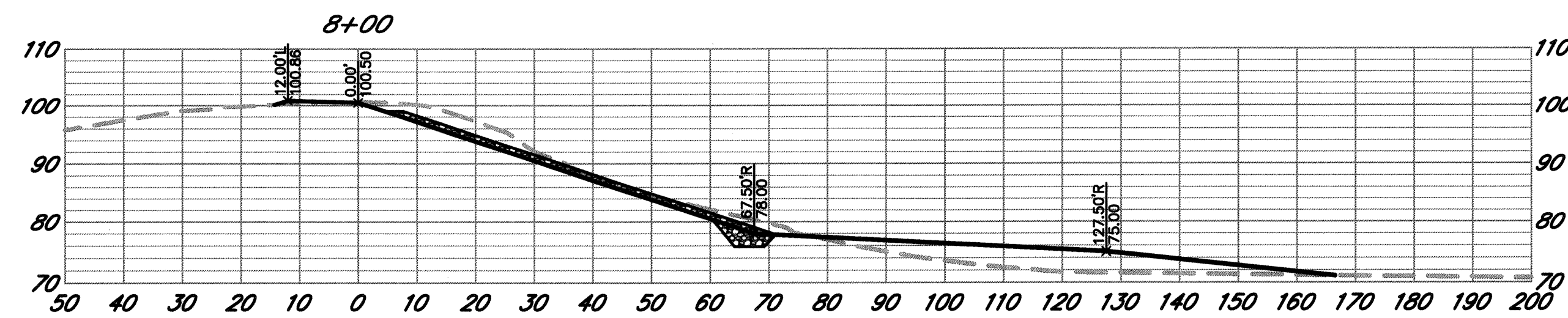
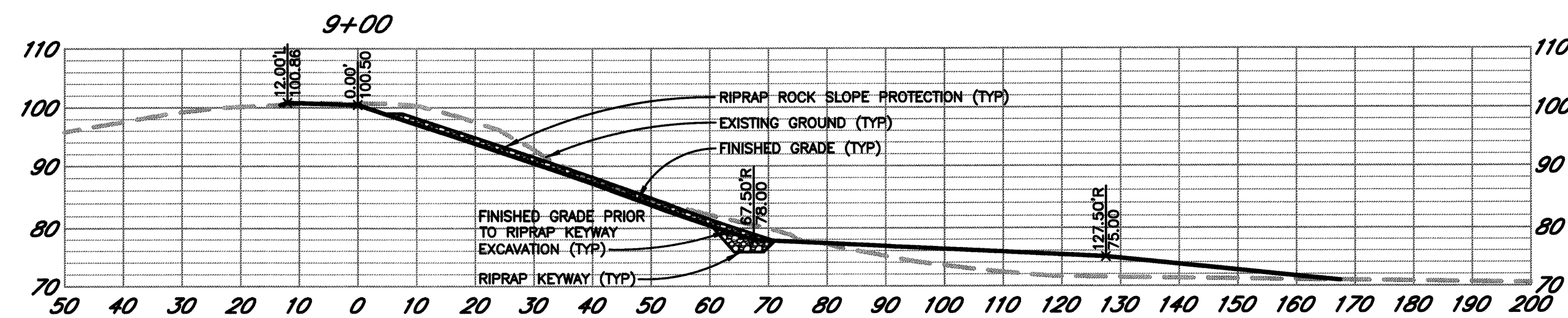
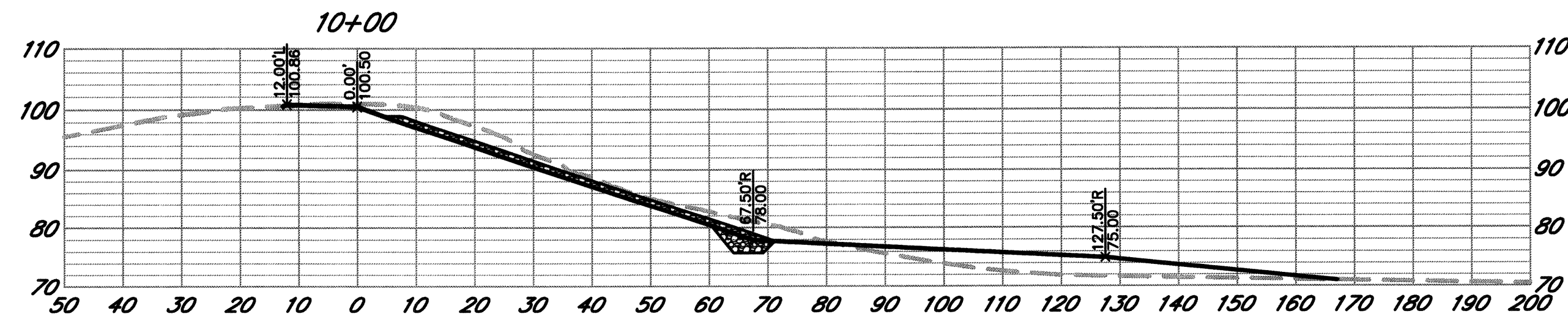
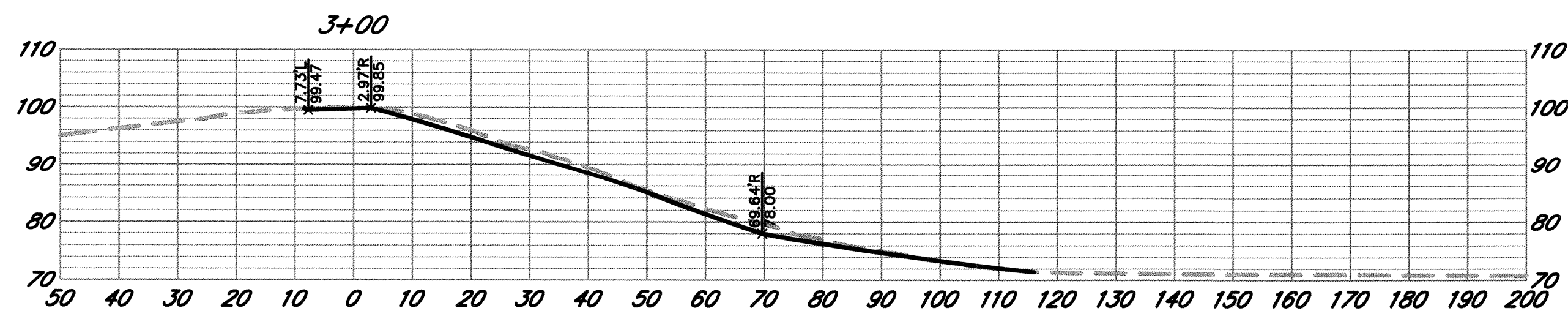
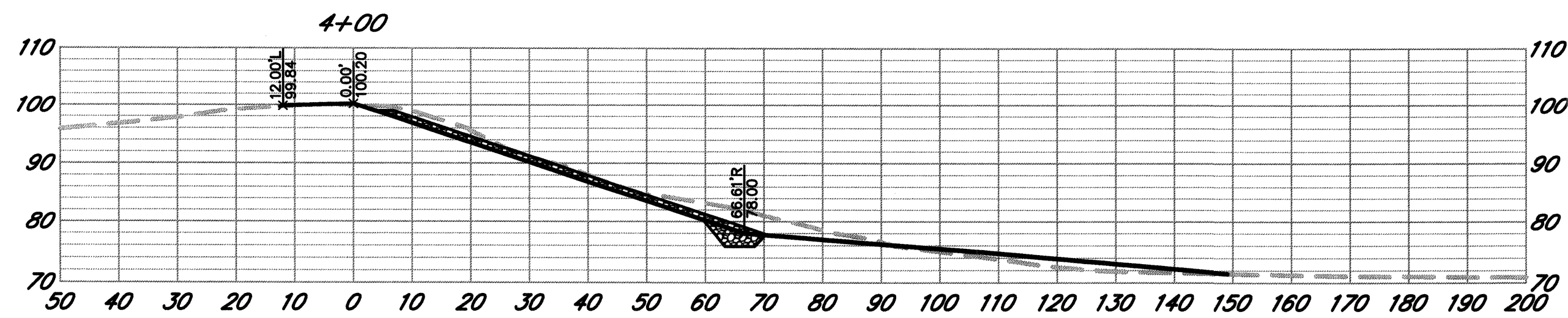
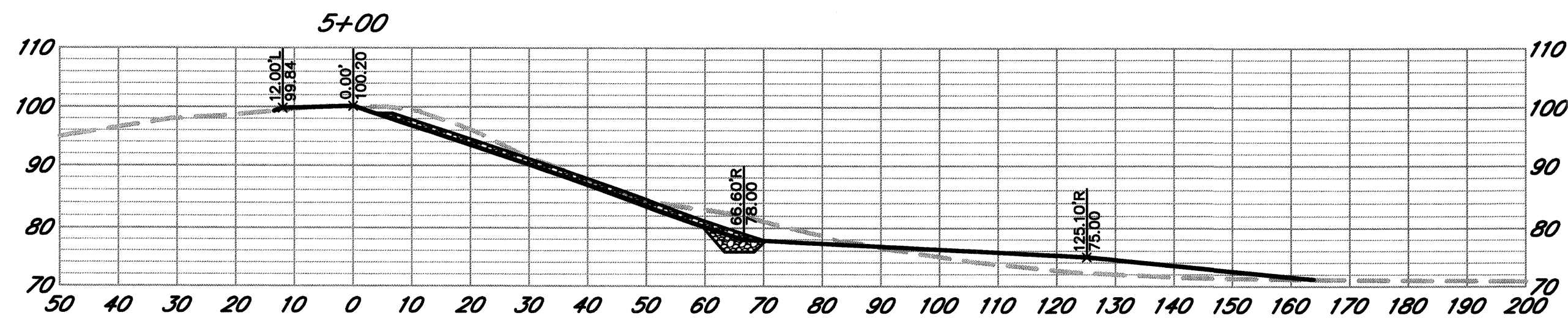
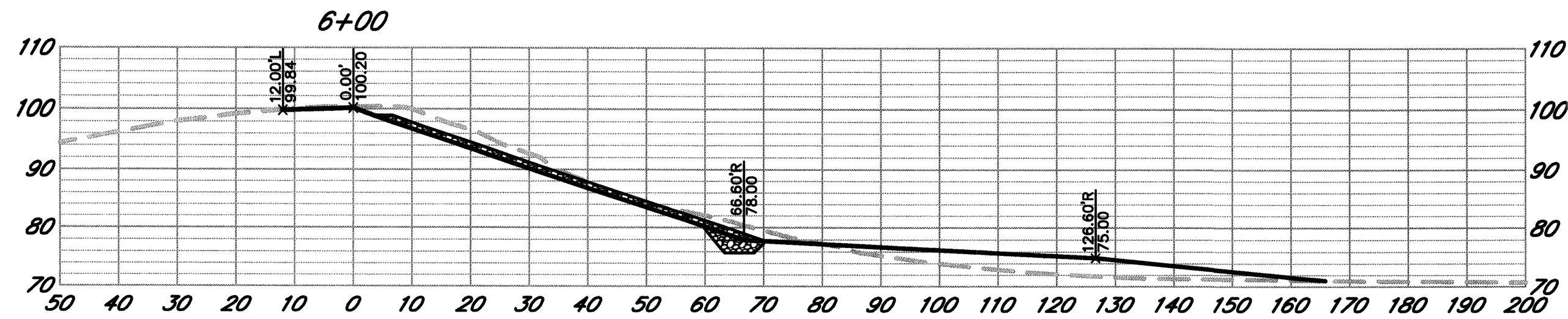
City of
Santa Rosa
Brejle & Race
CONSULTING ENGINEERS
475 Newton Blvd., Suite 120 • Santa Rosa, CA 95405 • (707) 276-1322
www.brejr.com

NO.	DATE	REVISION	BY
			Joe Schull

SCALE: AS SHOWN	DATE: APRIL 2019
DWN BY: PIT	CHK BY: BB
APPROVED: Deputy Director - Engineering	Date: 4/15/19
By: <i>W. Urbanek</i>	For: <i>W. Urbanek</i>

City of Santa Rosa
**NORTHERLY SLOPE PROTECTION
PONDS C & D AND POND B REPAIR**
POND D TYPICAL SECTIONS

CONTRACT NO.
C01909
SHEET 5 OF 15
FILE NO. 2019-0012



POND D CROSS SECTIONS

SCALE: HORZ. 1" = 20'
VERT. 1" = 20'



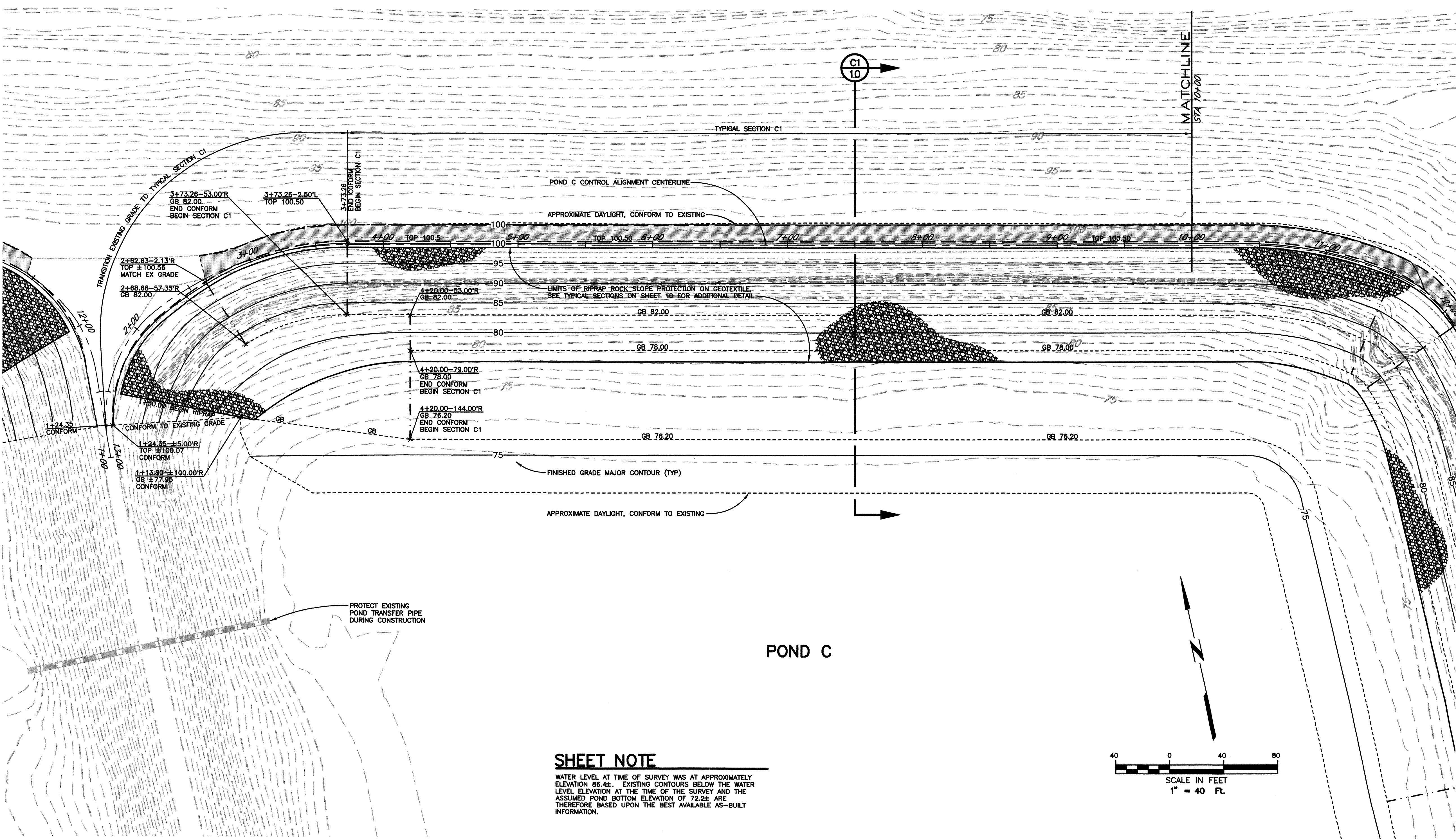
City of
Santa Rosa
Brejle & Race
REGISTERED PROFESSIONAL ENGINEERS
No. C-57429
Exp. 12-31-18
CIVIL
STATE OF CALIFORNIA
4-1-19

NO.	DATE	REVISION	BY

SCALE: AS SHOWN	DATE: APRIL 2019
DWN BY: PIT	CHK BY: BB
APPROVED: Deputy Director - Engineering	Date 4/15/19
By: <i>Lori Urbanek</i>	Lori Urbanek

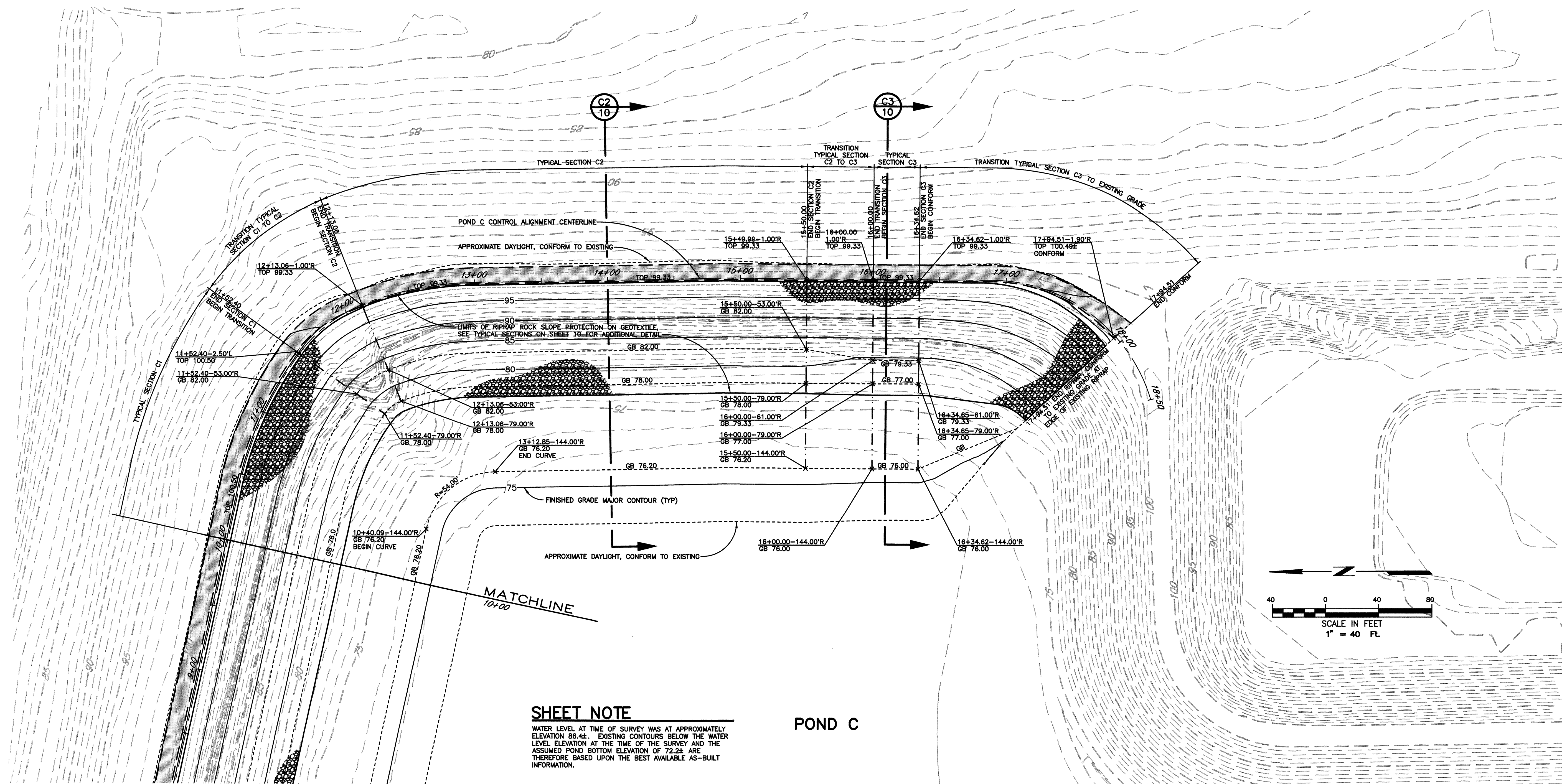
City of Santa Rosa	NORTHERLY SLOPE PROTECTION PONDS C & D AND POND B REPAIR	POND D CROSS SECTIONS
CONTRACT NO. C01909	SHEET 6 OF 15	FILE NO. 2019-0012

SEE SHEET 4 RIGHT (POND D GRADING PLAN)



SEE SHEET 9 BOTTOM LEFT

City of Santa Rosa Brejle & Race CONSULTING ENGINEERS 475 Aviation Blvd., Suite 120, Santa Rosa, CA 95403 (707) 271-1322 www.brejr.com	
SCALE: AS SHOWN	DATE: APRIL 2019
DWN BY: PIT	CHK BY: BB
APPROVED: By: Lori Urbonek, Deputy Director - Engineering	
Date: 4/15/19	
CONTRACT NO. C01909	NO. DATE REVISION BY
SHEET 8 OF 15	
FILE NO. 2019-0012	



SHEET NOTE

WATER LEVEL AT TIME OF SURVEY WAS AT APPROXIMATELY ELEVATION 86.4±. EXISTING CONTOURS BELOW THE WATER LEVEL ELEVATION AT THE TIME OF THE SURVEY AND THE ASSUMED POND BOTTOM ELEVATION OF 72.2± ARE THEREFORE BASED UPON THE BEST AVAILABLE AS-BUILT INFORMATION.

POND C

REGISTERED PROFESSIONAL ENGINEER
DAVID FRANKLIN LONG
No. C 57429
Exp. 12-31-18
CIVIL
STATE OF CALIFORNIA



City of
Santa Rosa

Brelje & Race
CONSULTING ENGINEERS
475 Aviation Blvd. • Suite 120 • Santa Rosa, CA 95403 • 707-576-1322

[illegible]

SCALE: AS SHOWN	DATE: APRIL 2019
DWN BY: PIT	CHK BY: BB

APPROVED: Deputy Director – Engineering

By: [Signature] Date: 4/11/19

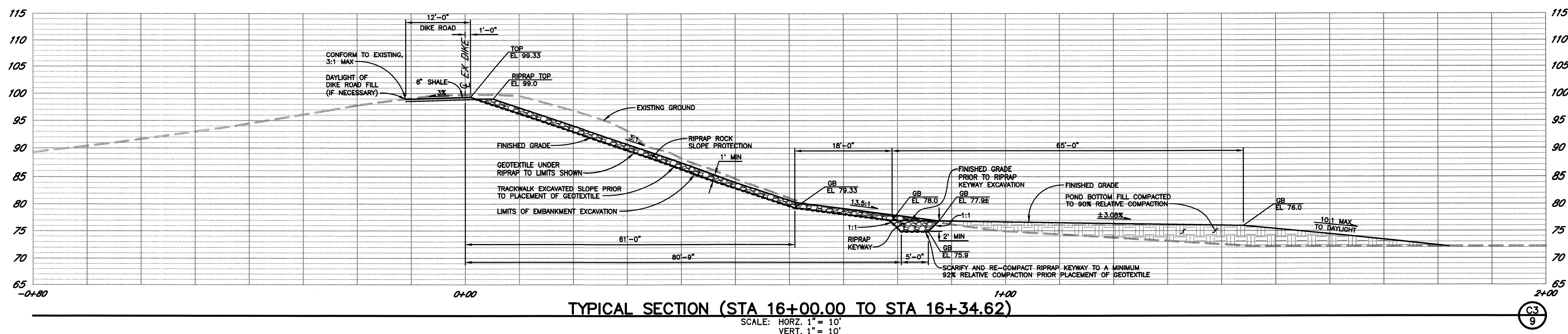
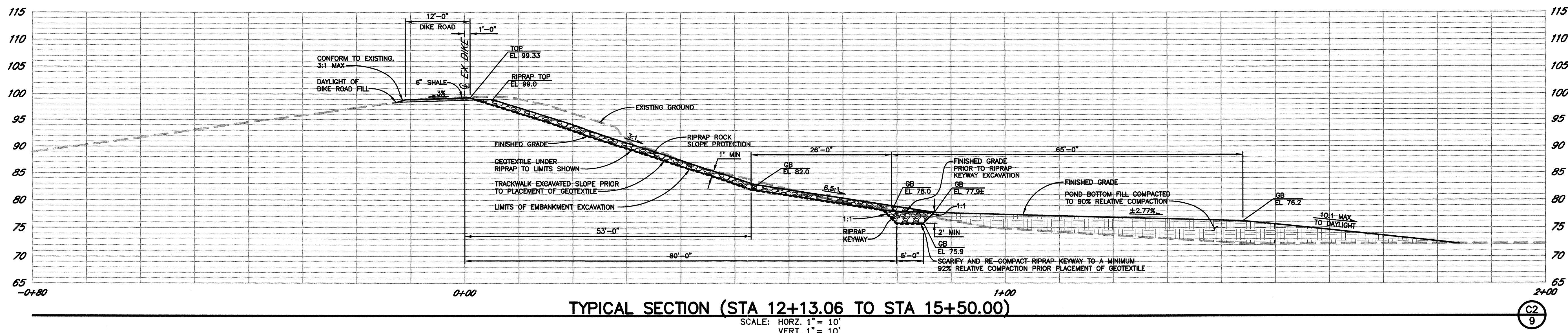
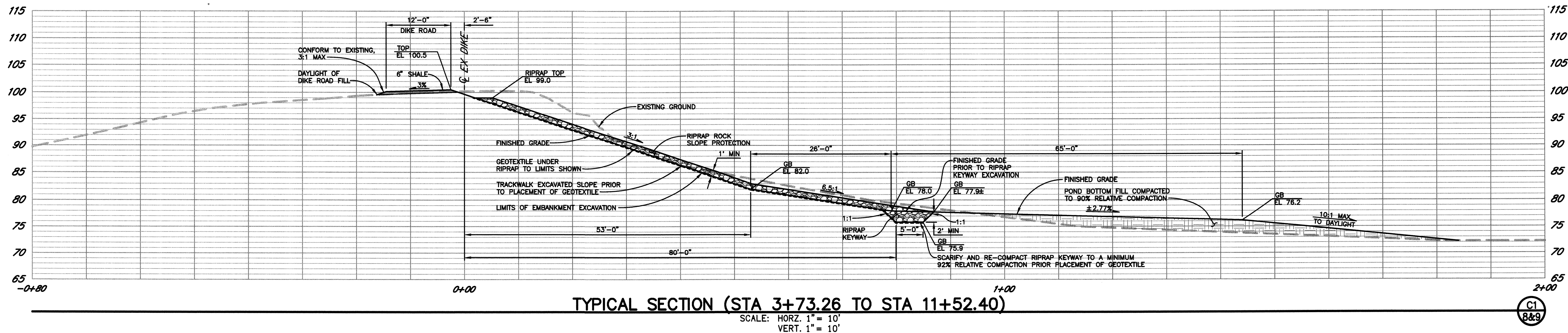
For: Libronak

City of Santa Rosa
NORTHERLY SLOPE PROTECTION
PONDS C & D AND POND B REPAIR
POND C GRADING PLAN
STA.10+00 - STA.18+50

CONTRACT NO.
C01909

SHEET 9 OF 15

FILE NO. 2019-0012



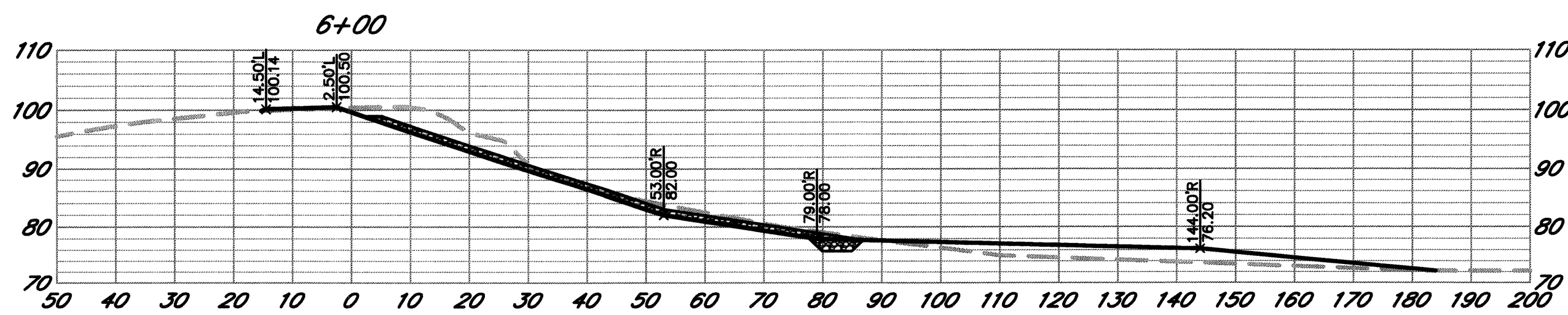
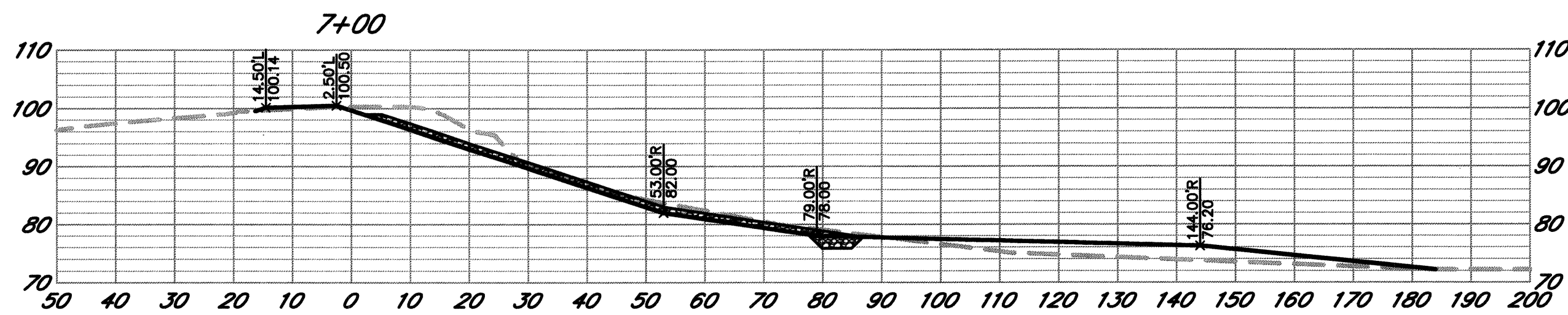
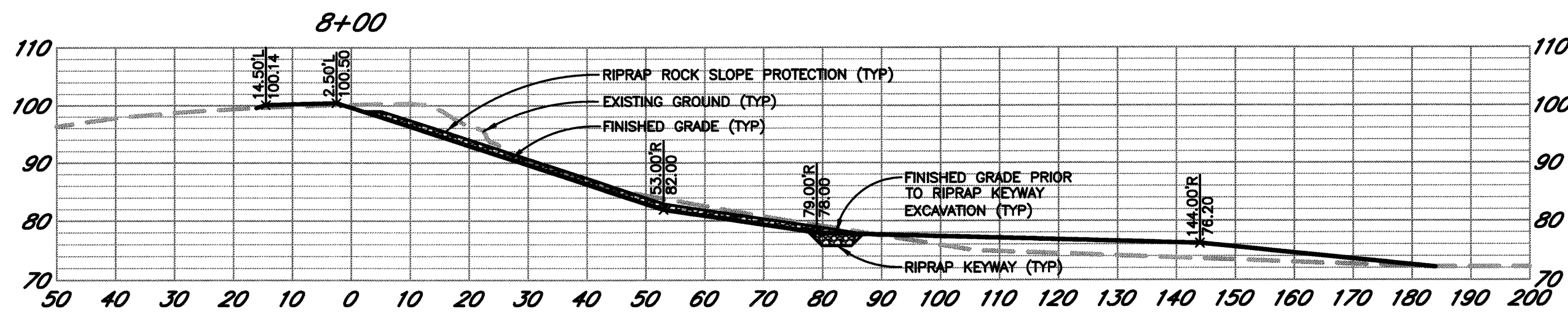
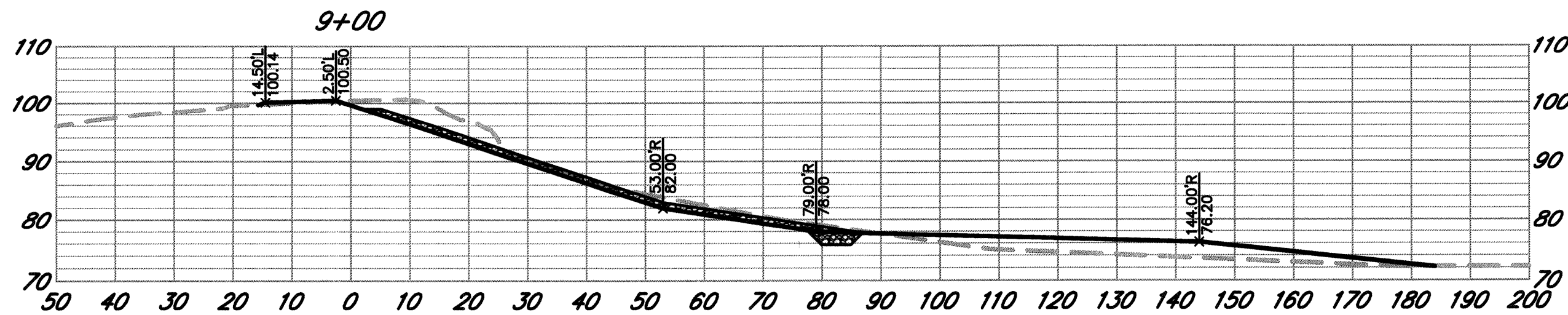
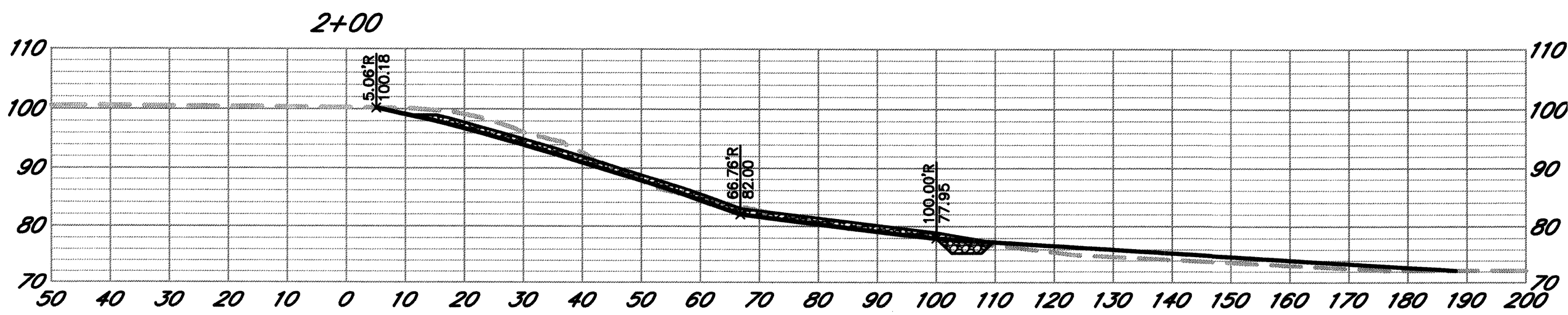
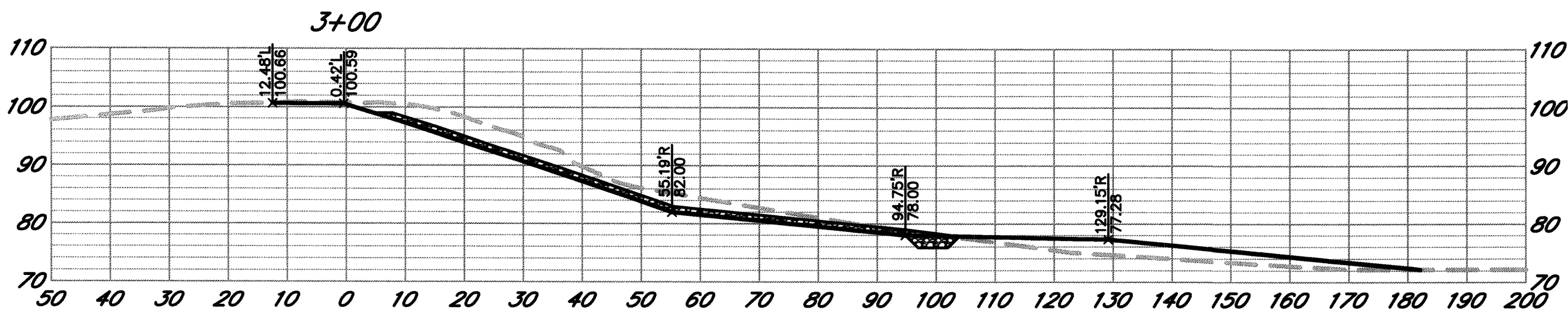
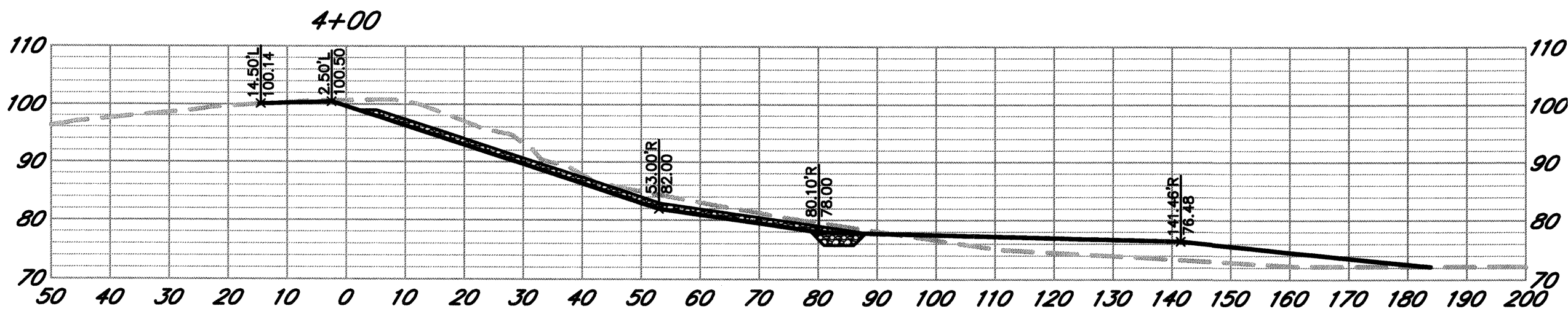
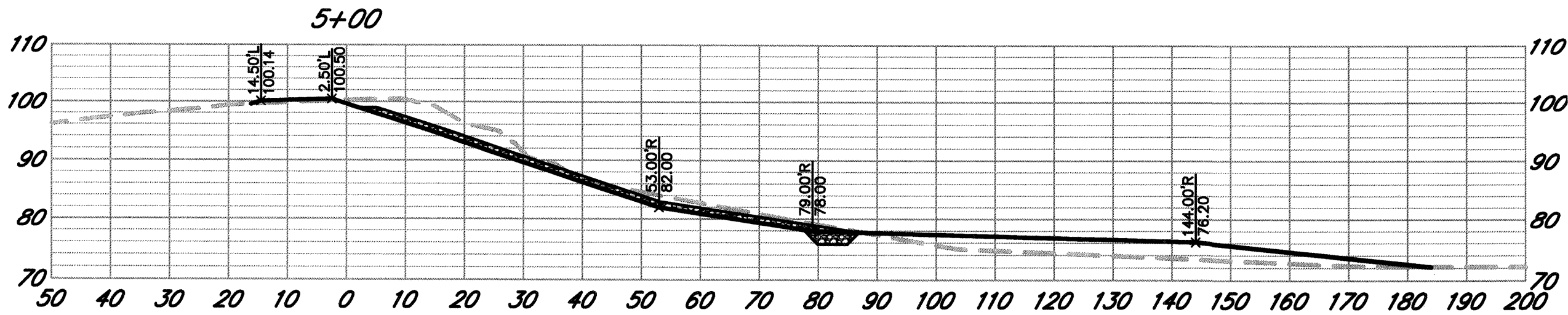
City of
 Santa Rosa
Breje & Race
 CONSULTING ENGINEERS
 475 Hudson Blvd. - Suite 120 - Santa Rosa, CA 95403 - 707.576.5325
 BREJE.RACE@GMAIL.COM

NO.	DATE	REVISION	BY

City of Santa Rosa
 NORTHERLY SLOPE PROTECTION
 PONDS C & D AND POND B REPAIR
 POND C TYPICAL SECTIONS
 SCALE: AS SHOWN
 DATE: APRIL 2019
 DWN BY: PIT
 CHK BY: BB
 APPROVED: Deputy Director - Engineering
 By *Lori Urbaneck* Date *4/15/19*
 Lori Urbaneck

CONTRACT NO.
 C01909
 SHEET 10 OF 15
 FILE NO. 2019-0012

04-10-19 bryant. \3539\dwg\3539 08\3539.08 C and D POND-SECTION.dwg TAB. 11 POND C-SECTION



POND C CROSS SECTIONS

SCALE: HORZ. 1" = 20'
VERT. 1" = 20'



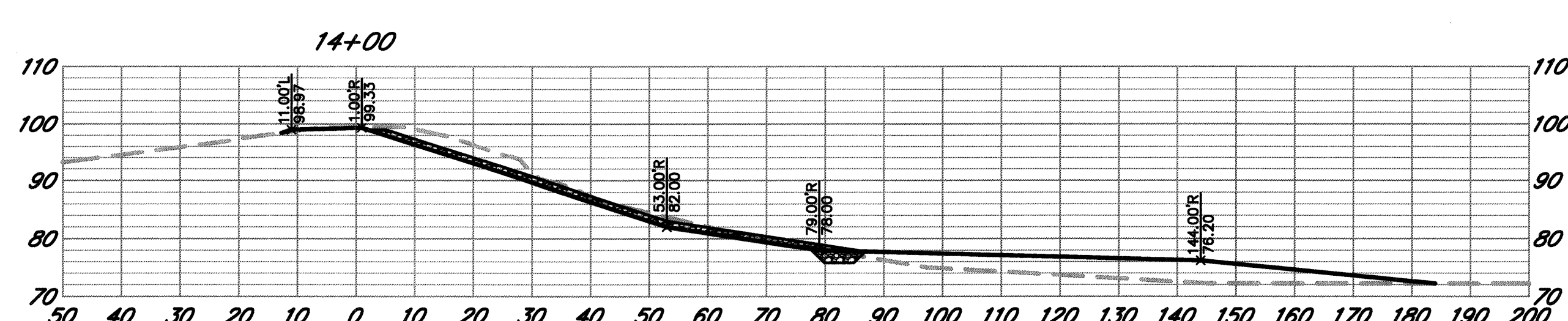
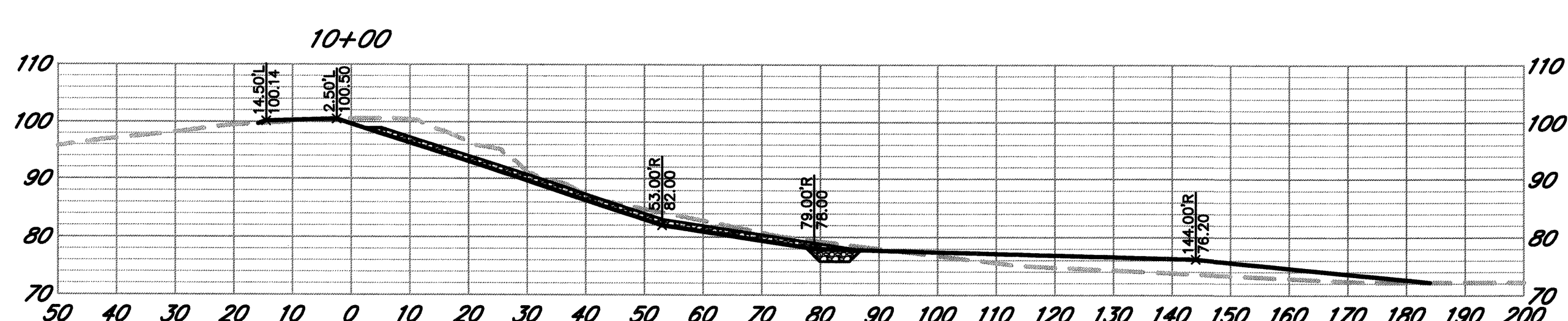
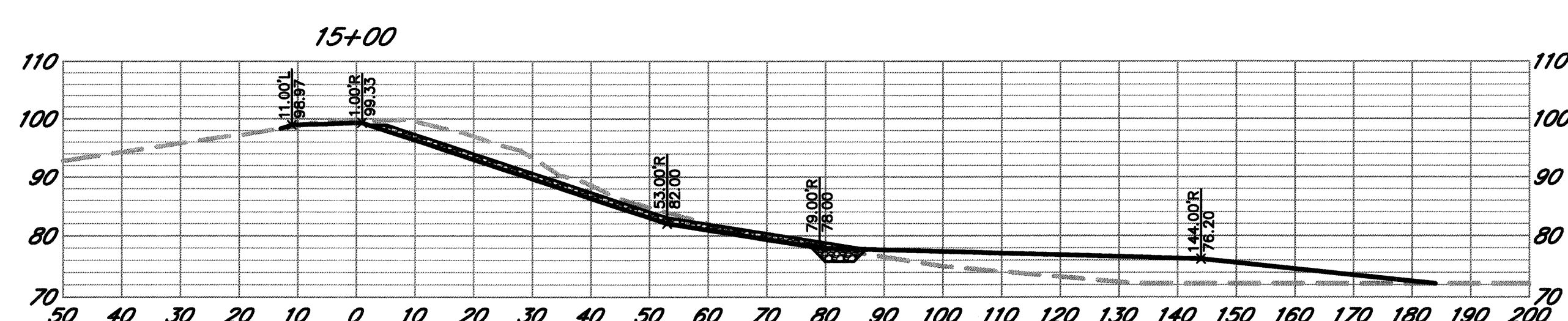
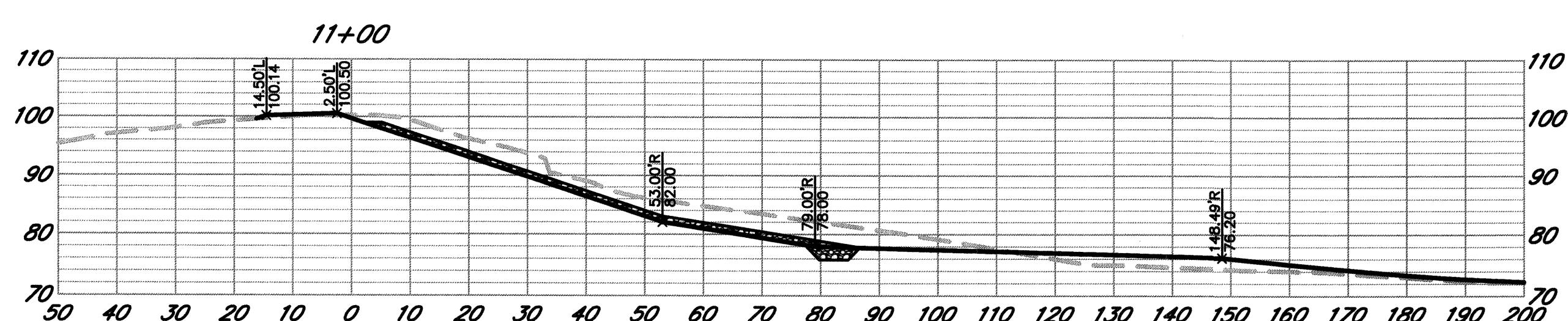
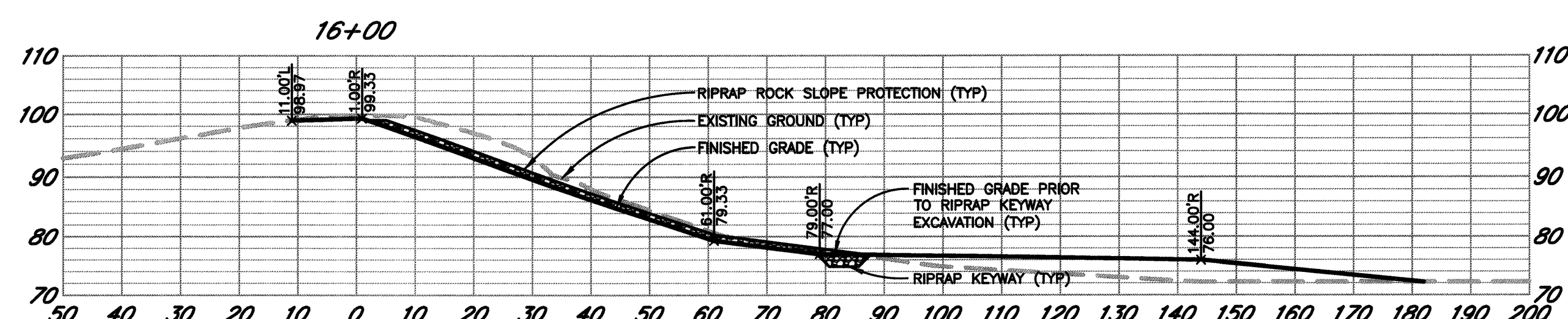
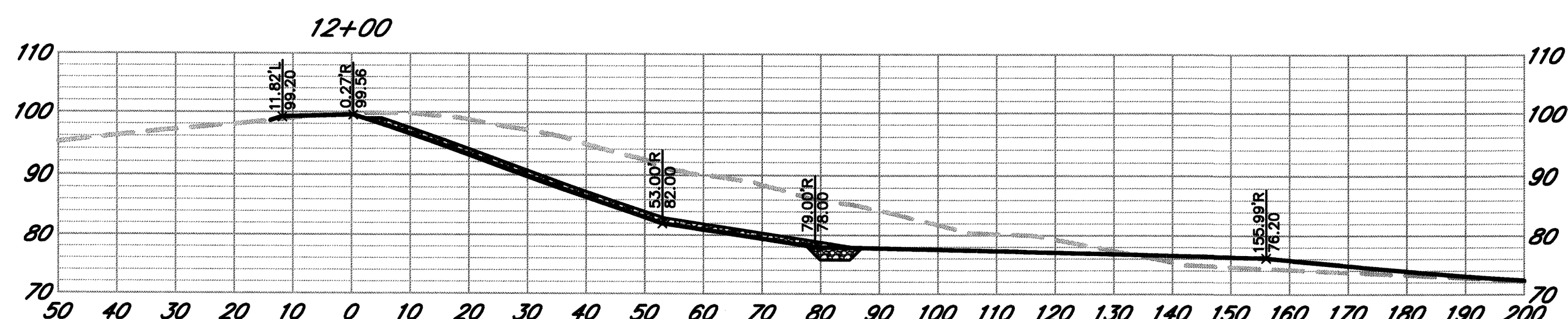
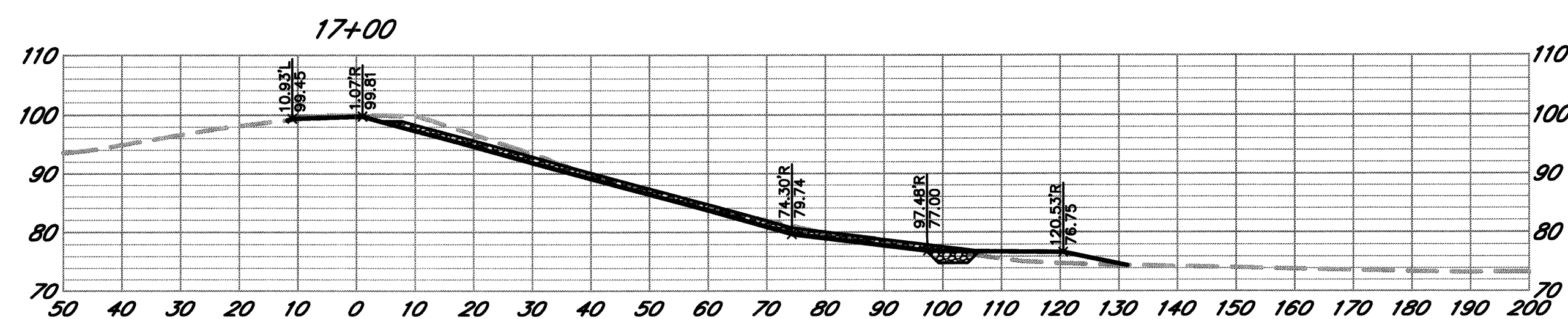
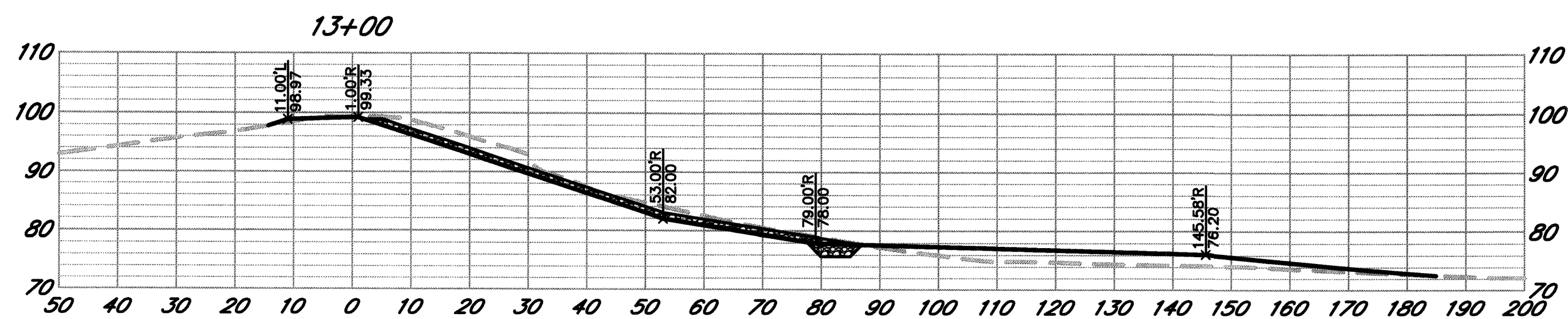
City of
Santa Rosa
Breje & Race
475 Market Blvd., Suite 120 • Santa Rosa, CA 95403
www.breje.com

NO.	DATE	REVISION	BY

SCALE: AS SHOWN	DATE: APRIL 2019
DWN BY: PIT	CHK BY: BB
APPROVED: Deputy Director - Engineering	
By: <i>M. Anderson</i>	Date: 4/15/19
Lori Urbaneck	

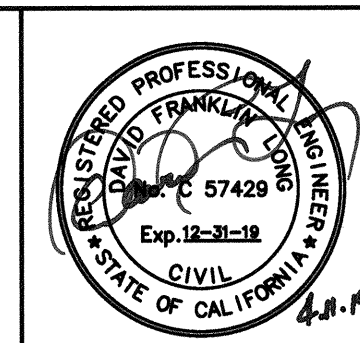
City of Santa Rosa NORTHERLY SLOPE PROTECTION PONDS C & D AND POND B REPAIR	POND C CROSS SECTIONS
CONTRACT NO. C01909	
SHEET 11 OF 15	
FILE NO. 2019-0012	

04-10-19 bryant \3539.dwg 3539 08\3539.08 C and D POND-SECTION.dwg TAB: 12 POND C-SECTION



POND C CROSS SECTIONS

SCALE: HORZ. 1" = 20'
VERT. 1" = 20'

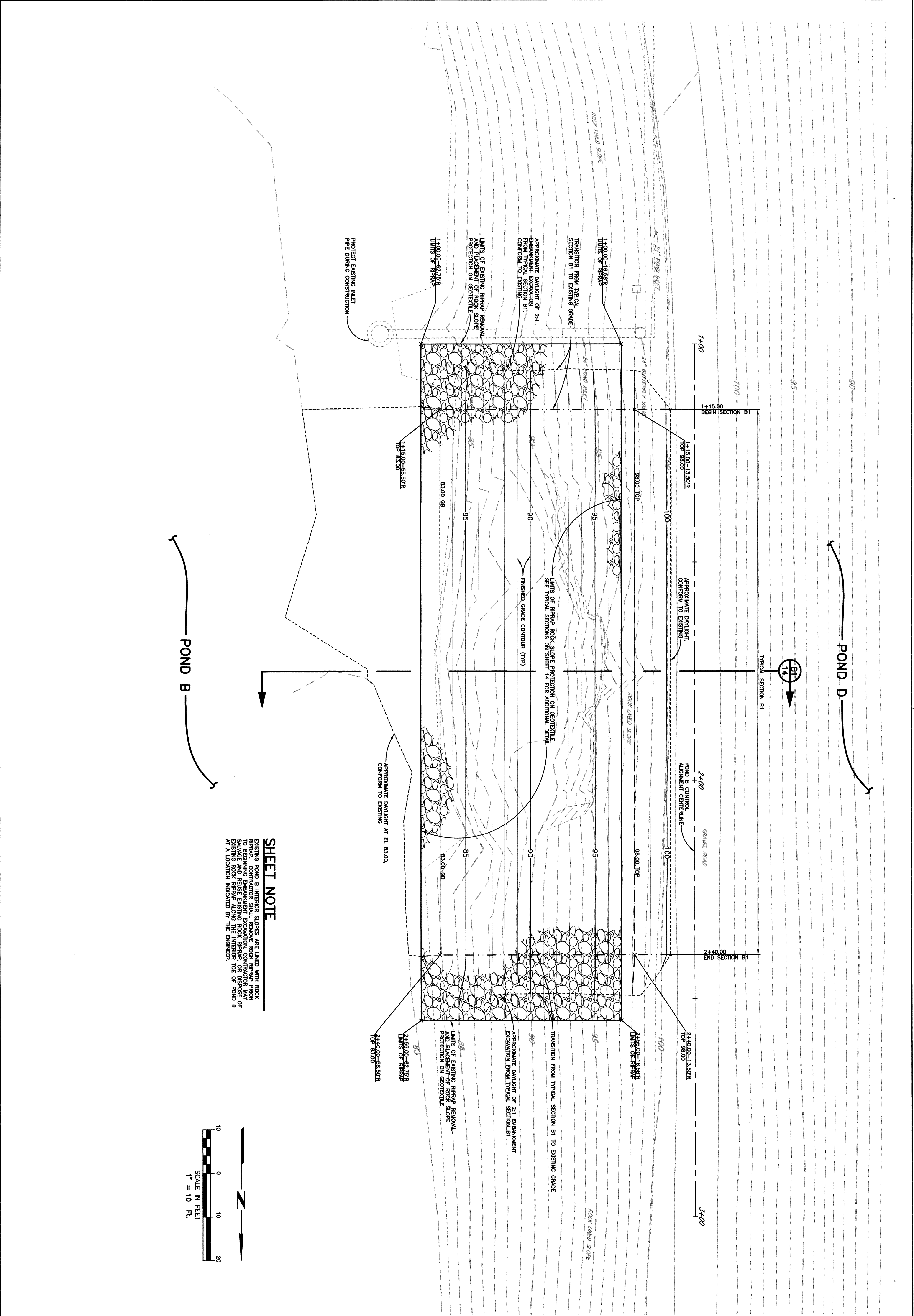


City of
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Brelje & Race
REGISTERED PROFESSIONAL ENGINEERS
4779 Aviation Blvd., Suite 120, Santa Rosa, CA 95403-1079
www.br-r.com

NO.	DATE	REVISION	BY

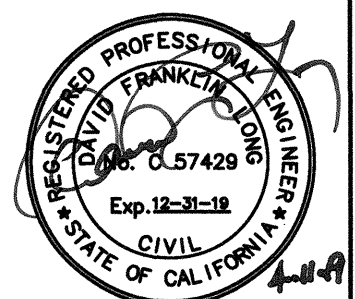
SCALE: AS SHOWN	DATE: APRIL 2019
DWN BY: PIT	CHK BY: BB
APPROVED: Deputy Director - Engineering	
By: <i>M. Anton</i>	Date: 4/15/19
Lori Urbanek	

City of Santa Rosa NORTHERLY SLOPE PROTECTION PONDS C & D AND POND B REPAIR
POND C CROSS SECTIONS
CONTRACT NO. C01909
SHEET 12 OF 15
FILE NO. 2019-0012



SHEET NOTE
EXISTING POND B INTERIOR SLOPES ARE LINED WITH ROCK. TO BEGINNING EMBANKMENT EXCAVATION, CONTRACTOR MAY SALVAGE AND REUSE EXISTING ROCK RIRAP, OR DISPOSE OF EXISTING ROCK RIRAP ALONG THE INTERIOR TOE OF POND B AT A LOCATION INDICATED BY THE ENGINEER.



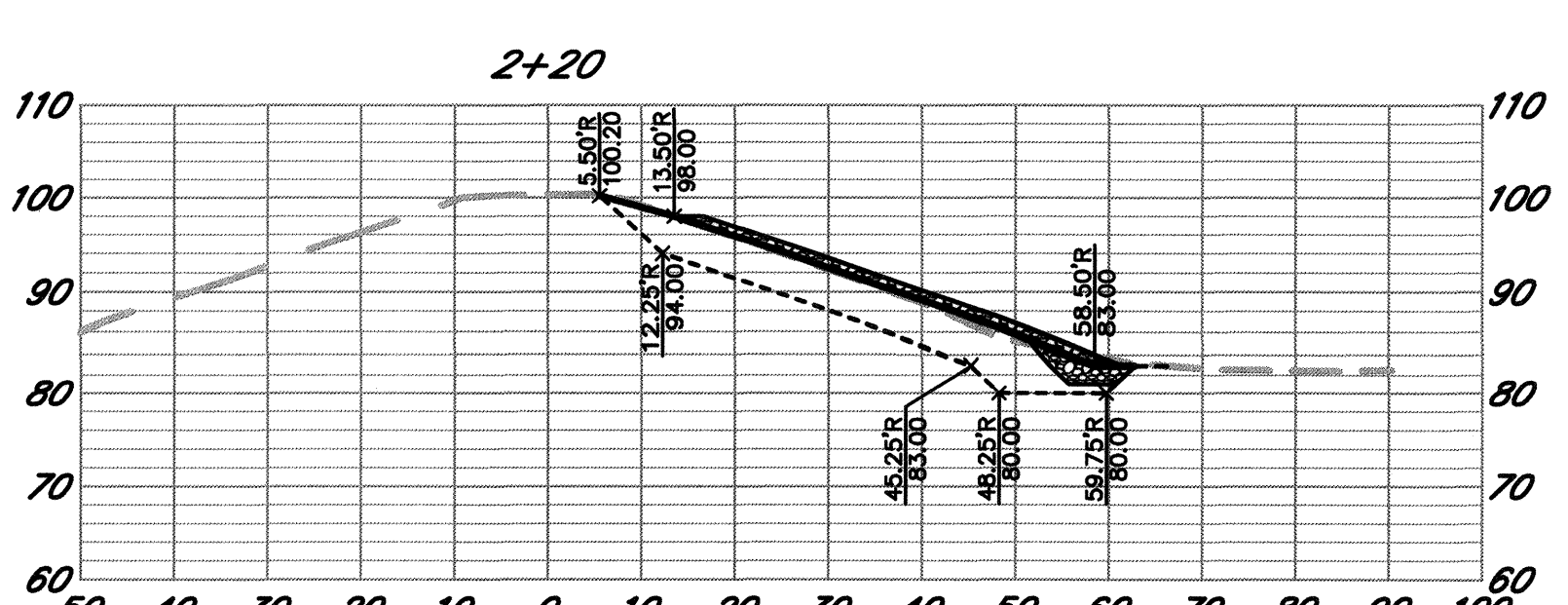
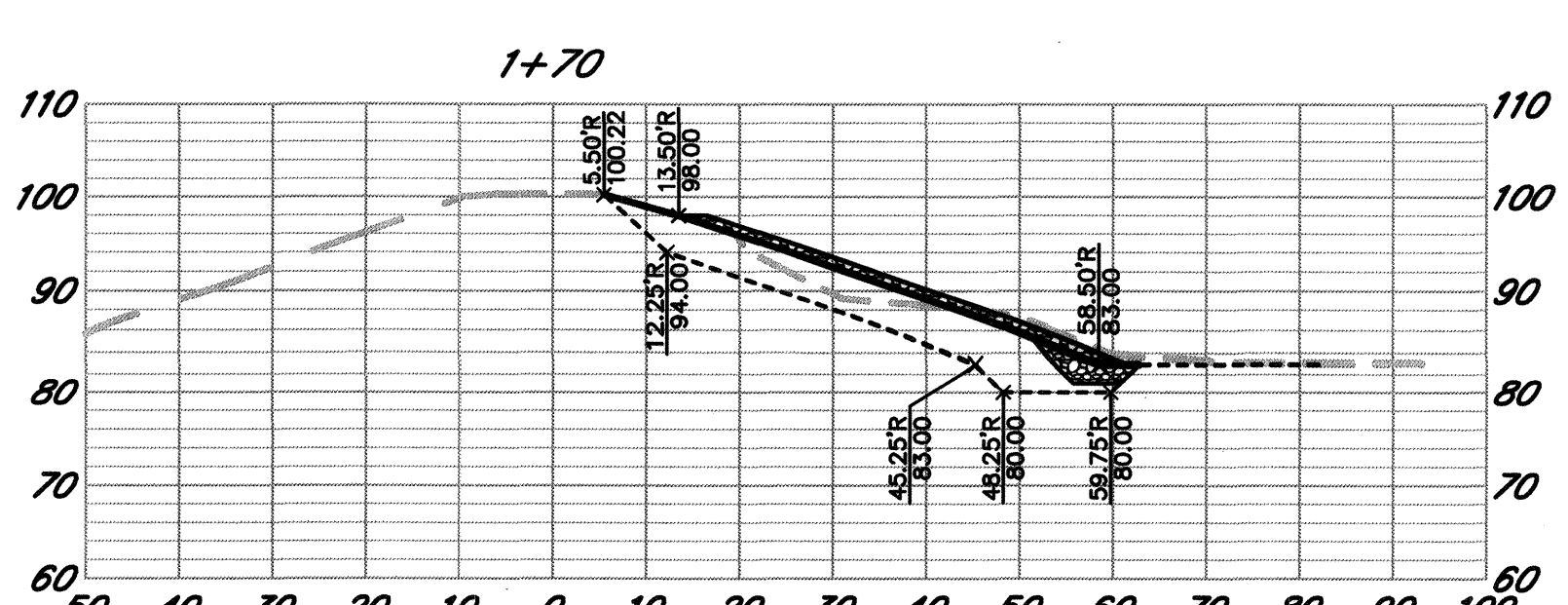
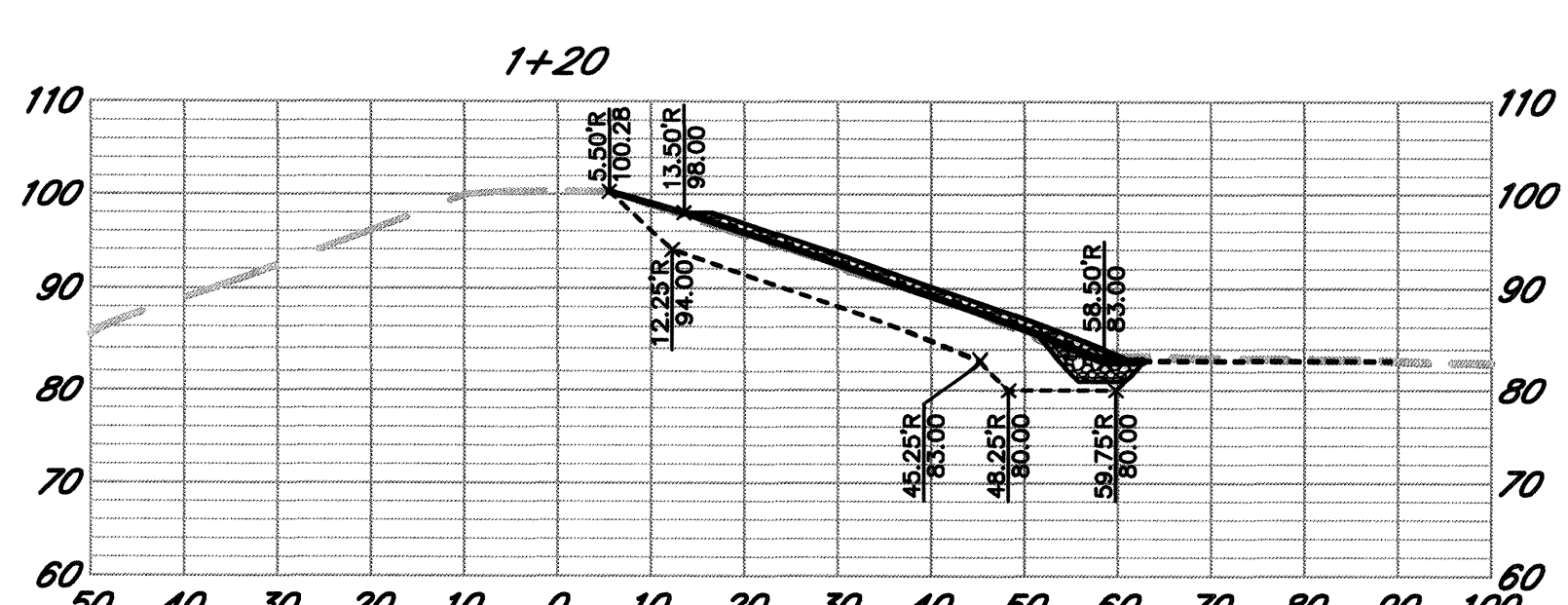
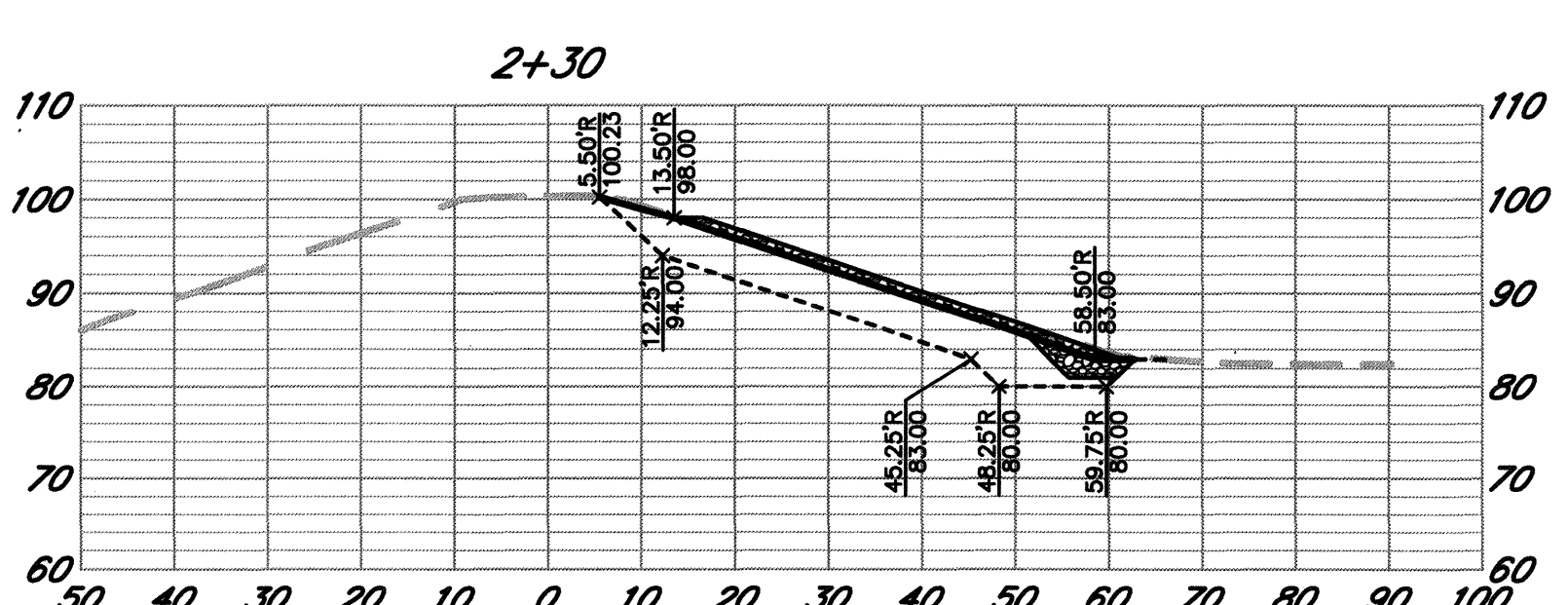
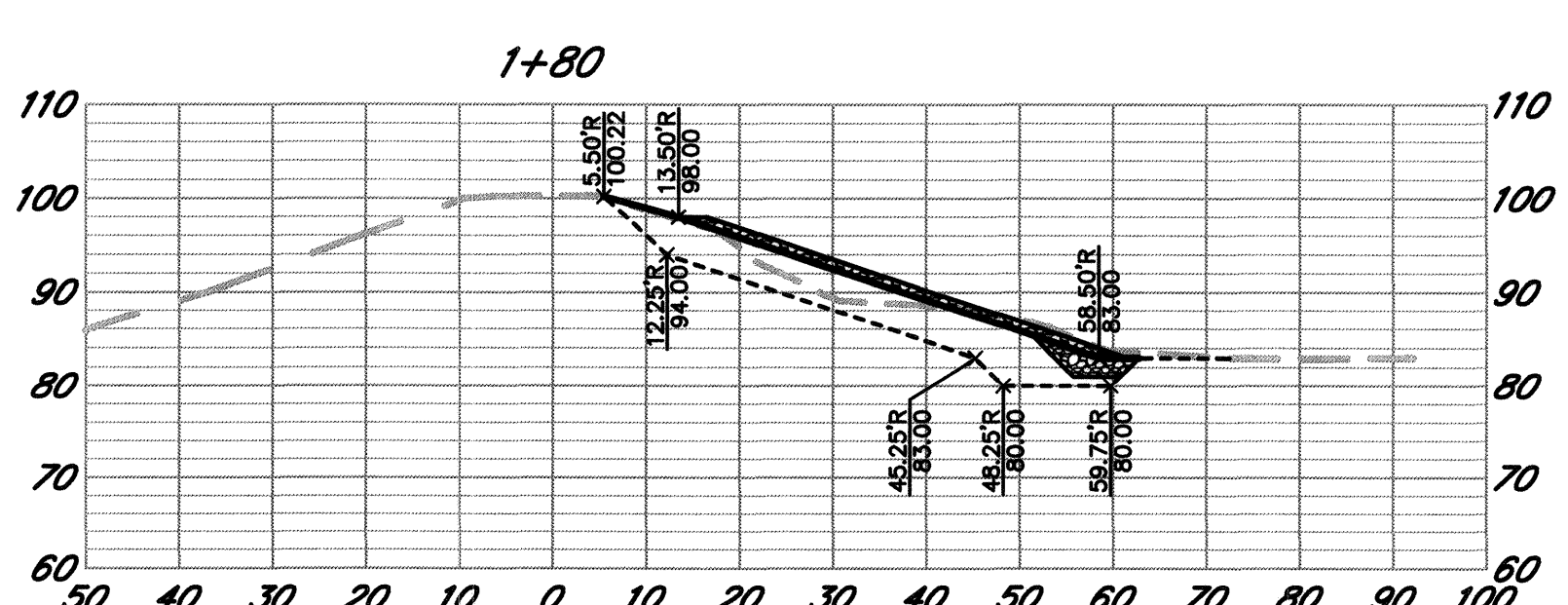
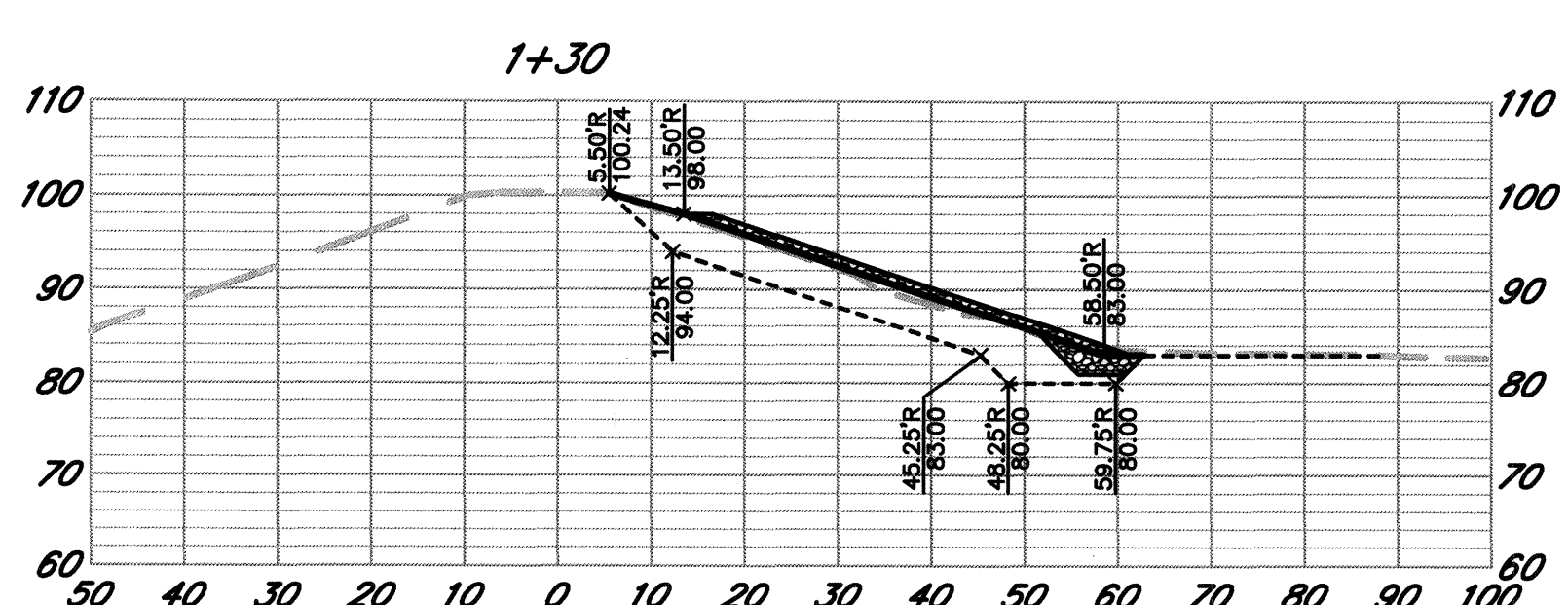
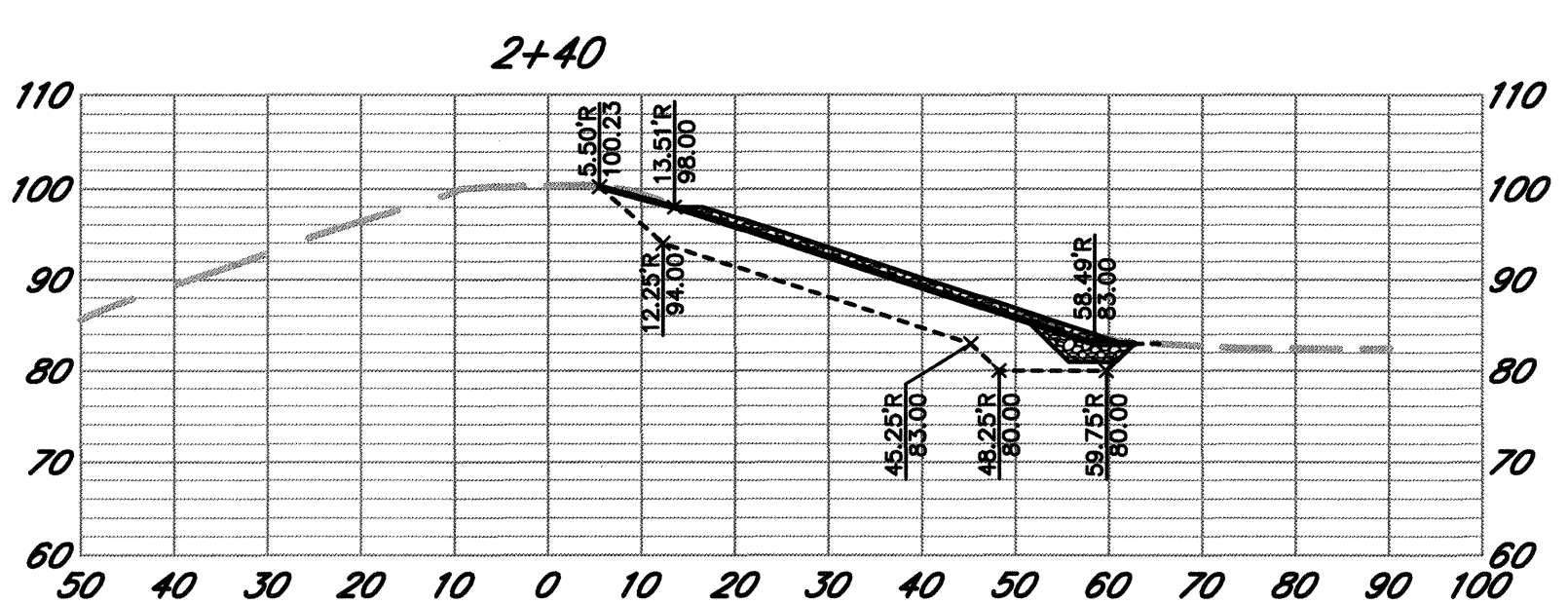
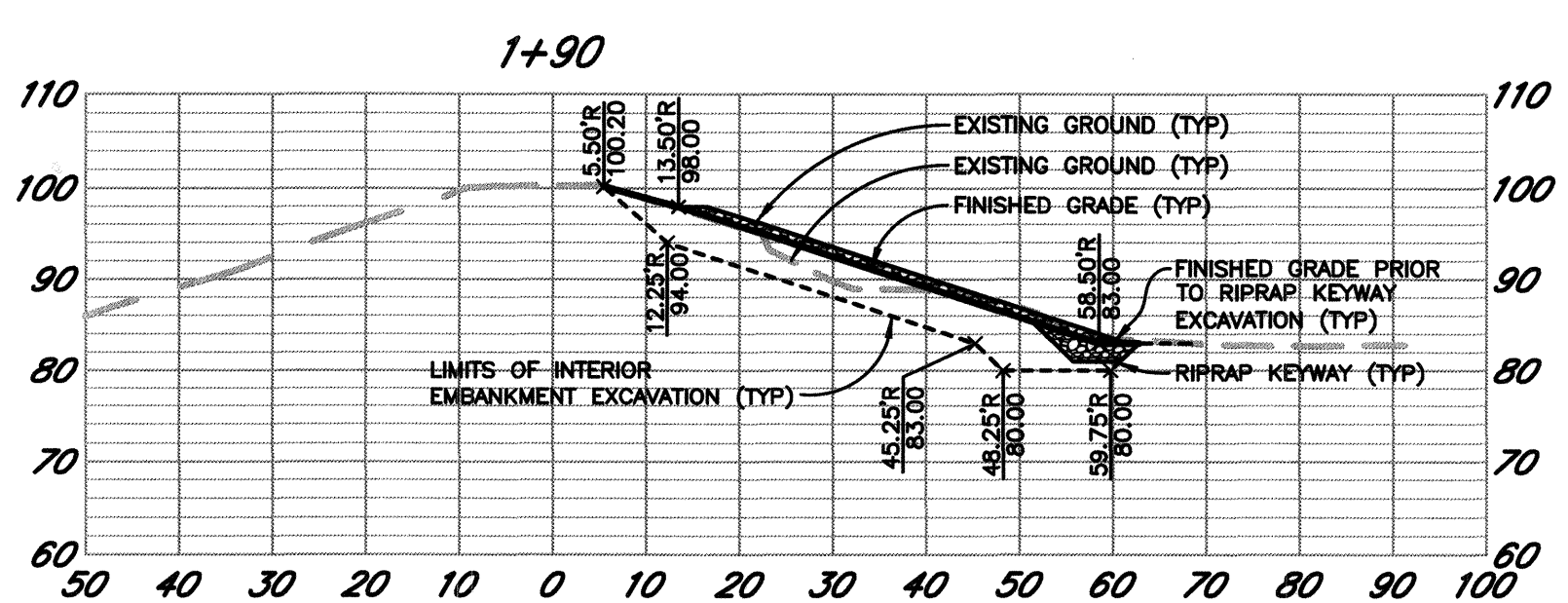
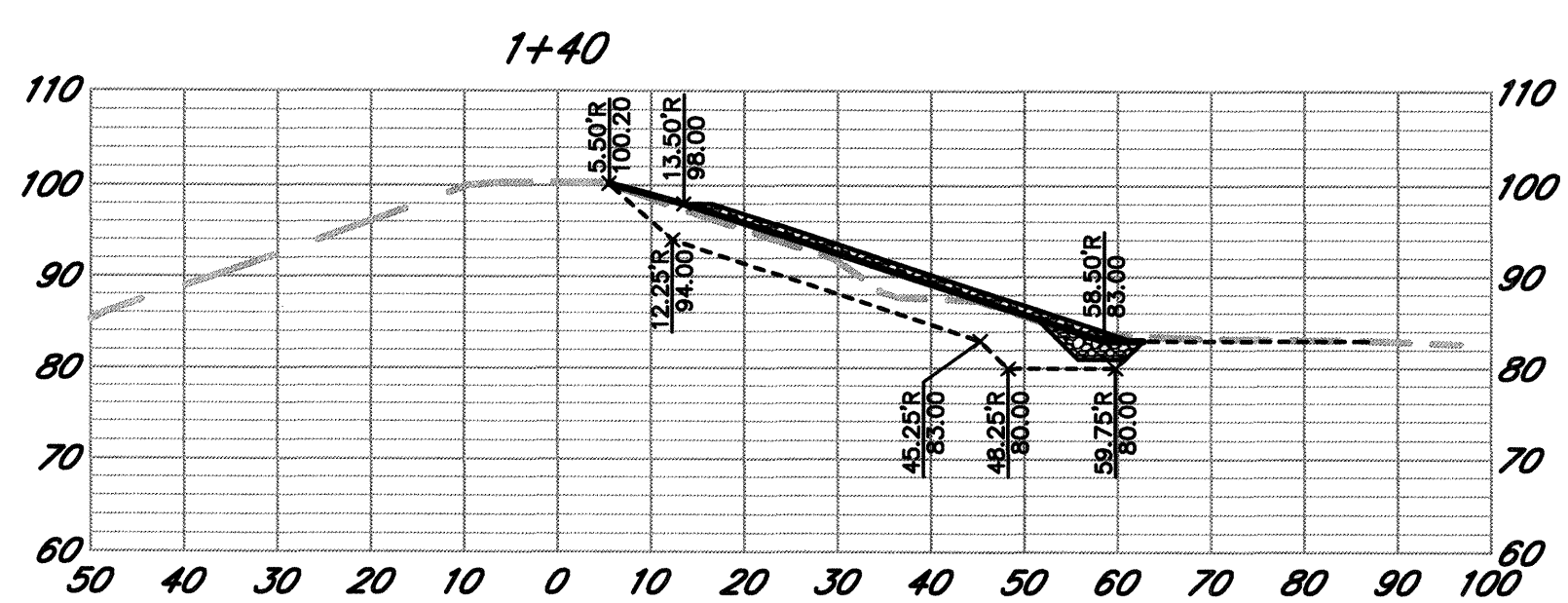
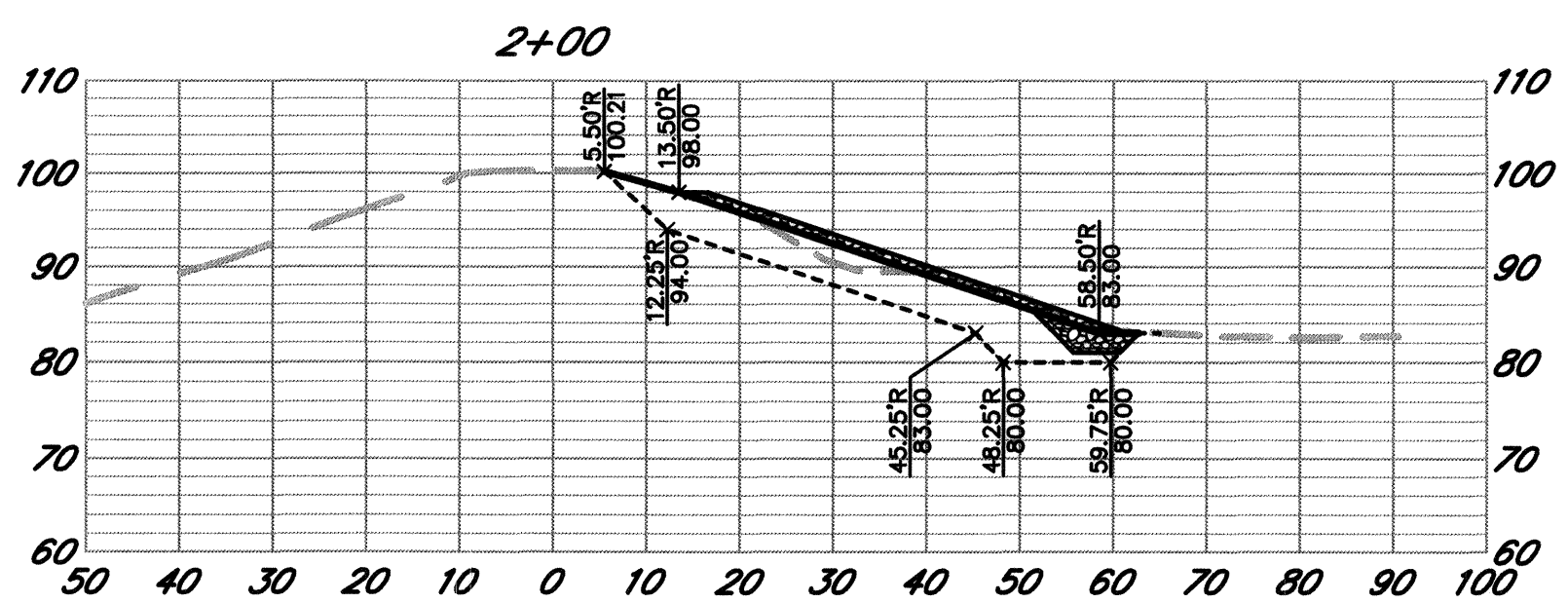
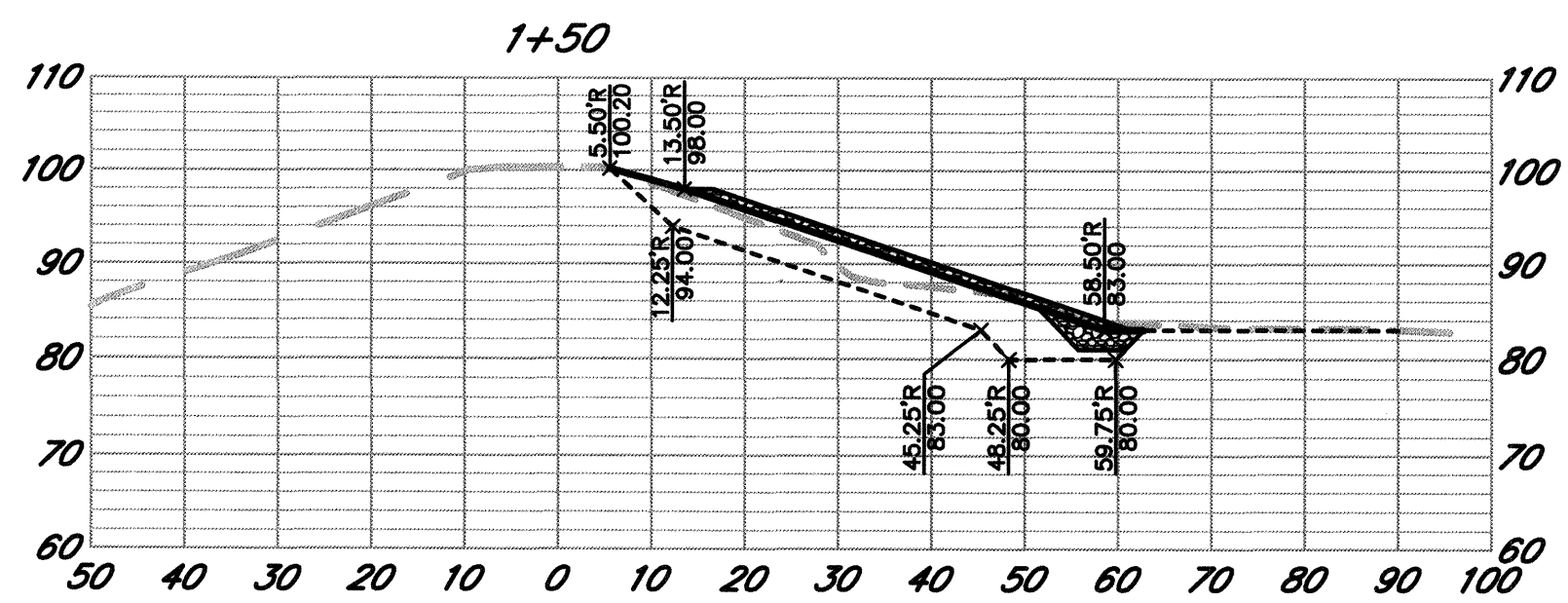
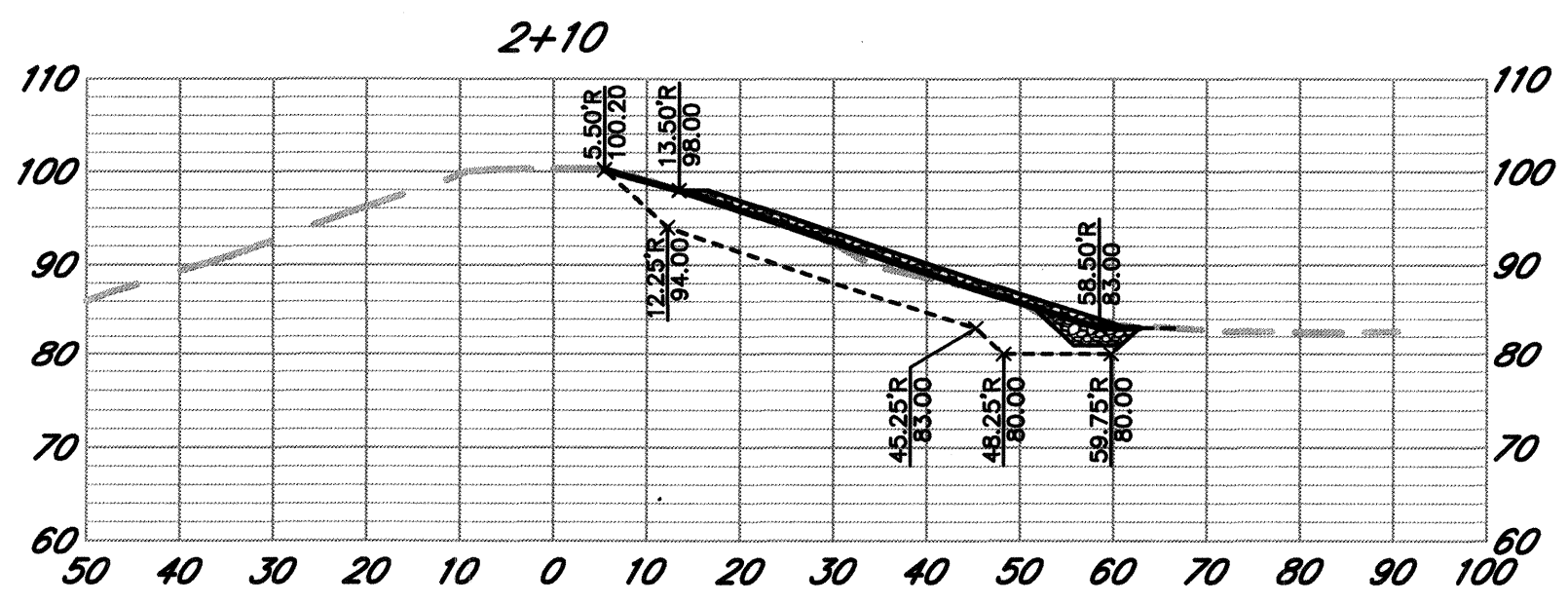
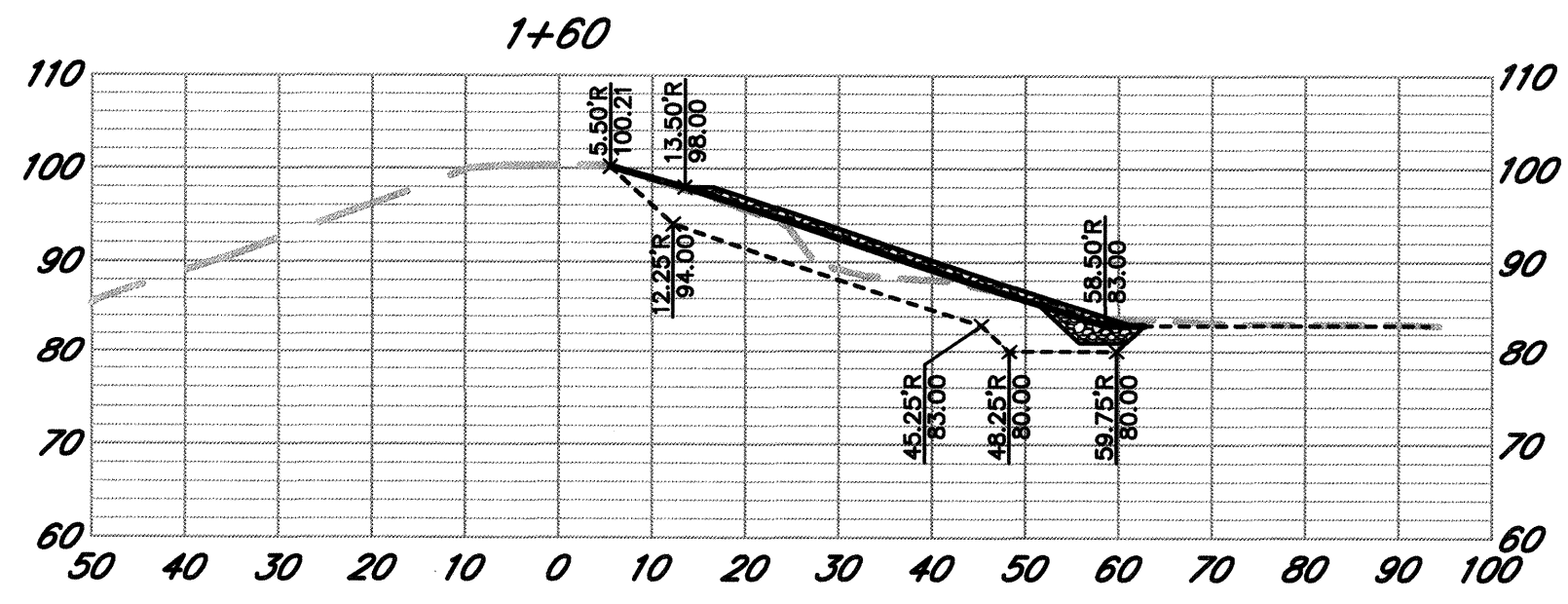


City of
Santa Rosa
Brelje & Race
CONSULTING ENGINEERS
475 Madison Blvd., Suite 200, Santa Rosa, CA 95407
www.brre.com

NO.	DATE	REVISION	BY

SCALE: AS SHOWN
DWN BY: PIT
DATE: APRIL 2019
CHK BY: BB
APPROVED: Deputy Director - Engineering
By: *[Signature]* Date: 4/15/19
Lori Urbanek

City of Santa Rosa
**NORTHERLY SLOPE PROTECTION
PONDS C & D AND POND B REPAIR**
POND B CROSS SECTIONS
CONTRACT NO.
C01909
SHEET 15 OF 15
FILE NO. 2019-0012



POND B CROSS SECTIONS
SCALE: HORZ. 1" = 20'
VERT. 1" = 20'

TAB: 15 POND B-SECTION

04-10-19 bryant \3539\dwg\3539 08\3539.08 C and D POND-SECTION.dwg