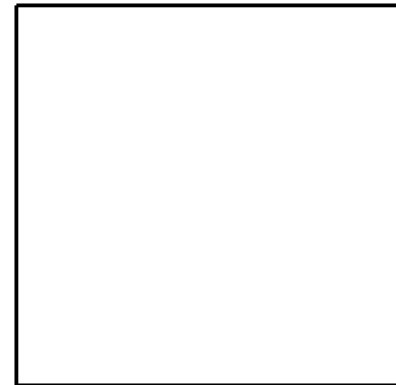
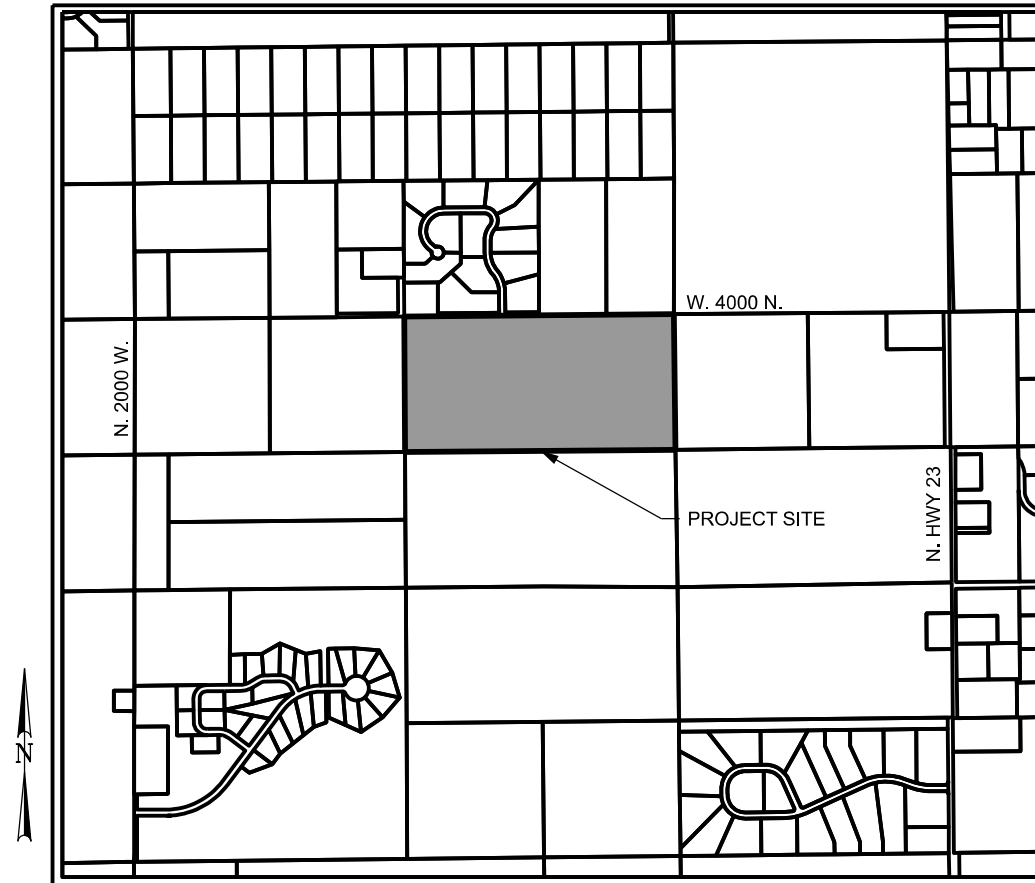


# PRELIMINARY DEVELOPMENT PLANS FOR JC RANCHES SUBDIVISION

TETON COUNTY, ID  
AUGUST 12, 2024



CIVIL STAMP



VICINITY MAP  
N.T.S.

CALL BEFORE YOU DIG  
1-800-849-2476

**PROJECT CONTACTS**

CIVIL ENGINEER  
ADRIENNE LEMMERS  
(307)-632-5656  
Adrienne@y2consultants.com

**SHEET INDEX**

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DATE	DRAWING SET TITLE
AUGUST 2023	PRELIMINARY PLAT
FEB 2024	UPDATED PRELIMINARY
JUNE 21, 2024	PRELIM W/CANAL CROSS
DRAWN BY: BN/EL/CD	
CHECKED BY: AL JOB #: 21109.ID	

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ENGINEERING, SURVEYING & PLANNING  
LANDSCAPE ARCHITECTURE, GIS  
NATURAL RESOURCE SERVICES

Y2consultants.com  
307.733.2999

PRELIMINARY PLAT DEVELOPMENT PLANS

JC RANCHES SUBDIVISION  
SECTION 10, T5N, R45E  
TETON COUNTY IDAHO

COVER SHEET

C0.1

## GENERAL NOTES:

- PLEASE INCORPORATE ALL NOTES AS MAY BE PRESENTED WITHIN AND THROUGHOUT THIS PLAN SET AS SET FORTH HEREIN.
- ALL WORK SHOWN ON THESE CIVIL DRAWINGS WHETHER PUBLIC OR PRIVATE IMPROVEMENTS SHALL COMPLY AS A MINIMUM WITH THE HIGHWAY AND STREET GUIDELINES FOR DESIGN AND CONSTRUCTION IN TETON COUNTY, IDAHO AS AMENDED APRIL 11, 2013.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPACTING SUBGRADE, CRUSHED BASE AND FINISHED GRADES TO 95% AASHTO T-99 PROCTOR DENSITY.
- THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION (HORIZONTAL AND VERTICAL) AND SIZE (OUTSIDE DIAMETER, ETC.) OF ALL EXISTING IMPROVEMENTS THAT MAY BE AFFECTED BY THE CONSTRUCTION WITHIN PROJECT LIMITS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO THE CONSTRUCTION OF IMPROVEMENTS THAT ARE AFFECTED BY INFORMATION THAT DIFFERS FROM THAT SHOWN ON THESE PLANS.
- ANY UTILITIES OR IMPROVEMENTS THAT ARE DISCOVERED DURING CONSTRUCTION THAT ARE NOT SHOWN ON THE PLANS SHALL BE IMMEDIATELY BROUGHT TO THE ENGINEERS ATTENTION.
- LOCATIONS OF POTENTIAL CONFLICT BETWEEN EXISTING UTILITIES AND NEW CONSTRUCTION SHALL BE POT-HOLED AND THE EXISTING IMPROVEMENT SHALL BE SURVEYED. THE SURVEY RESULTS SHALL BE PRESENTED TO THE OWNER AND Y2 CONSULTANTS AND ANY DESIGN CHANGES WILL TAKE UP TO 5 WORKING DAYS TO RETURN TO THE CONTRACTOR.
- THE CONTRACTOR SHALL NOT OPERATE ANY FACILITIES OWNED BY ANY UTILITY.
- THE CONTRACTOR SHALL PROVIDE ALL LIGHTS, SIGNS, BARRICADES, FLAG PERSONS, OR OTHER DEVICES NECESSARY TO PROVIDE FOR PUBLIC SAFETY, IN ACCORDANCE WITH THE TOWN OF WHEATLAND AND/OR THE CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS PRIOR TO COMMENCEMENT OF ANY WORK ON THE PROJECT.
- THE CONTRACTOR SHALL PROVIDE A COMPLETE SET OF AS-BUILT RECORD DRAWINGS TO THE OWNER AT THE END OF THE PROJECT. THE DRAWINGS SHALL BE COMPLETE WITH DETAILS, DIMENSIONS, AND ELEVATIONS OF ALL INSTALLATIONS VARYING FROM THESE PLANS.  
OWNERS – 1 SET  
ENGINEER – 1 SET
- ANY DAMAGE TO ANY IMPROVEMENTS NOT TO BE DEMOLISHED SHALL BE REPAIRED OR REPLACED AT NO ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR SHALL CONTROL STORMWATER RUNOFF, DUST AND MUD FROM ALL CONSTRUCTION ACTIVITIES PER STATE AND FEDERAL REQUIREMENTS, AND ACCESS ROADS THROUGHOUT CONSTRUCTION.
- QUALITY ASSURANCE MATERIAL TESTING FOR SOILS WILL BE PERFORMED BY AN INDEPENDENT TESTING LAB FOR VERIFICATION OF CONTRACTORS COMPLIANCE. THE CONTRACTOR IS NOT RELIEVED FROM COMPLYING WITH ALL APPLICABLE SPECIFICATIONS. ANY RETESTS REQUIRED WILL BE PAID FOR BY THE CONTRACTOR.
- GRADE ALL WORK AREAS TO MAINTAIN POSITIVE SURFACE DRAINAGE DURING THE WORK.
- ALL REMOVED MATERIALS (UNSUITABLE SOIL, STRUCTURES, PIPE, ETC.) SHALL BE PROPERLY DISPOSED OF, OFF SITE, AT THE CONTRACTOR'S EXPENSE.
- Y2 CONSULTANTS AND THE OWNER ARE NOT A GUARANTOR OF THE CONSTRUCTING CONTRACTORS OBLIGATION AND PERFORMANCE OF WORK.
- Y2 CONSULTANTS AND THE OWNER ARE NOT RESPONSIBLE FOR SAFETY, IN, ON, OR AROUND THE PROJECT SITE, NOR FOR COMPLIANCE BY THE APPROPRIATE PARTY OR ANY REGULATIONS THERETO.
- Y2 CONSULTANTS AND THE OWNER EXERCISES NO CONTROL OF THE SAFETY OR ADEQUACY OF ANY EQUIPMENT, BUILDING COMPONENTS, SCAFFOLDING, FORMS, OR OTHER WORK AIDS USED IN OR ABOUT THE PROJECT, OR IN THE SUPERVISION OF THE SAME.

## UTILITY LOCATION NOTES:

- CALL FOR UTILITY LOCATES 48 HOURS BEFORE DIGGING IN THE CONSTRUCTION SITE: 1-800-922-1987.
- THE TYPE, SIZE, LOCATION, AND NUMBER OF ALL KNOWN UNDERGROUND UTILITIES ARE APPROXIMATE WHERE SHOWN ON THE DRAWINGS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE EXISTENCE AND LOCATION OF ALL UNDERGROUND UTILITIES ALONG THE ROUTE OF THE WORK BEFORE COMMENCING NEW CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL UNDERGROUND UTILITIES ENCOUNTERED DURING CONSTRUCTION WHETHER SHOWN ON THE DRAWINGS OR NOT. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY ALL UTILITIES WHEN CONSTRUCTION WORK BEGINS IN THE VICINITY OF ANY UTILITY LINES AND ARRANGE FOR A REPRESENTATIVE OF THE UTILITY TO BE PRESENT IF THE CONTRACTOR'S OPERATIONS ARE IN CLOSE PROXIMITY TO ANY LINES IN THEIR EXISTING OR RELOCATED POSITION WHICH COULD CREATE A HAZARDOUS CONDITION.

## ROADWAY CONSTRUCTION NOTES:

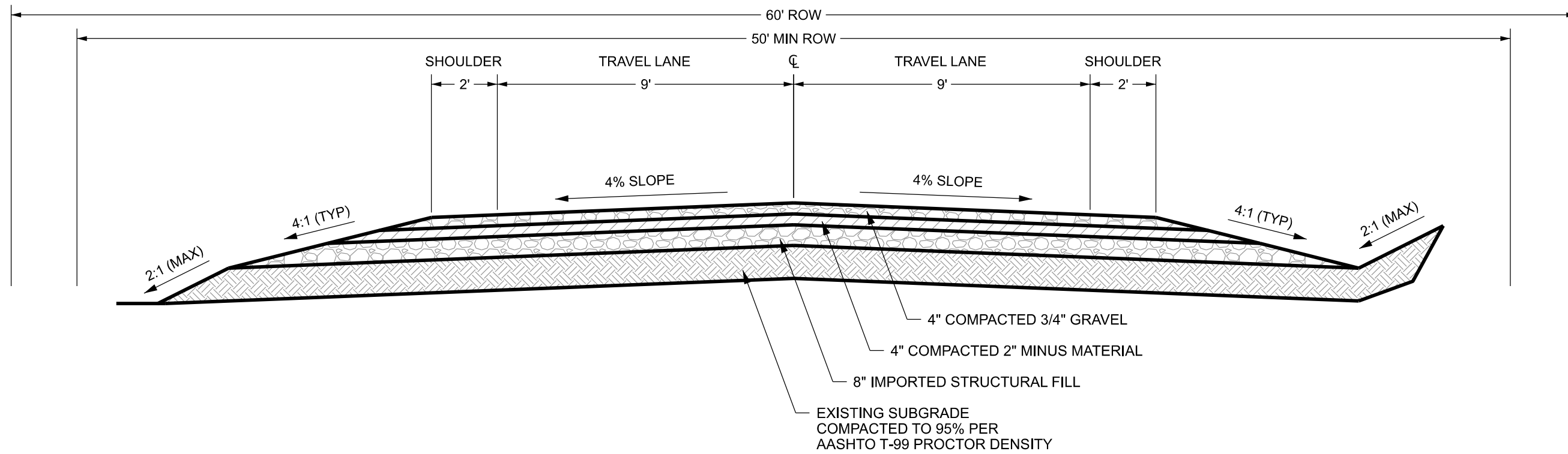
- ASPHALT SHALL BE HOT MIX, APPROVED BY TETON COUNTY, IDAHO AND MEET THE REQUIREMENTS OF HOT MIX ASPHALT IN THE CONSTRUCTION SPECIFICATION.

### LEGEND OF SYMBOLS & ABBREVIATIONS

	INDICATES A 5/8 INCH DIAMETER REBAR WITH A 2-1/2 INCH DIAMETER CAP INSCRIBED "PLS 14391", ALONG WITH OTHER APPROPRIATE MARKINGS, SET THIS SURVEY.		ADJOINING PROPERTY LINE
	INDICATES A 5/8 INCH DIAMETER REBAR WITH 2 INCH DIAMETER ALUMINUM CAP INSCRIBED "PLS 14391", ALONG WITH OTHER MARKINGS SET THIS SURVEY.		BOUNDARY LINE
	INDICATES A 1/2 INCH DIAMETER REBAR WITH AN ORANGE PLASTIC CAP INSCRIBED "PLS 14391", ALONG WITH OTHER MARKINGS SET THIS SURVEY AS A BUILDING ENVELOPE CORNER		SECTION LINE
	INDICATES A 5/8 INCH DIAMETER REBAR WITH A PINK PLASTIC CAP INSCRIBED, "CONTROL POINT", SET THIS SURVEY		QUARTER SECTION LINE
	INDICATES A 5/8 INCH DIAMETER REBAR WITH A GREEN PLASTIC CAP INSCRIBED "PLS 12222", FOUND THIS SURVEY		SECTION SUBDIVISION LINE
	INDICATES A 5/8 INCH DIAMETER REBAR WITH A 2 INCH ILLEGIBLE ALUMINUM CAP, FOUND THIS SURVEY		BUILDING ENVELOPE/DRIVEWAY LINE
	UNLESS OTHERWISE NOTED, INDICATES A 5/8 INCH DIAMETER REBAR FOUND THIS SURVEY.		ROAD AND WATERLINE EASEMENT LINE
	INDICATES A COMMUNICATIONS CABINET		EXISTING FENCELINE (WIRE)
	INDICATES A COMMUNICATIONS VAULT		EXISTING FENCELINE (WOOD)
	INDICATES A UTILITY POWER POLE		EXISTING FENCELINE (JACK LEG)
	INDICATES A GUY WIRE		EXISTING ASPHALT SURFACE
	INDICATES A SPOT ELEVATION		EXISTING GRAVEL SURFACE
	INDICATES A DOMESTIC WATER WELL		EXISTING TOE OF BANK
	INDICATES A FROST FREE HYDRANT		EXISTING TOP OF BANK
	INDICATES AN ELECTRICAL METER		EXISTING OVERHEAD UTILITY LINE
	INDICATES AN IRRIGATION RISER		EXISTING COMMS UTILITY LINE
	INDICATES AN IRRIGATION CONTROL VALVE		EXISTING BUILDING OUTLINE
	INDICATES A TEST PIT		EXISTING MINOR CONTOUR
	INDICATES STORM SEWER MANHOLE		EXISTING MAJOR CONTOUR
			EXISTING CULVERT (SIZE IDENTIFIED ON PLANS)
			NEW 12" DIAMETER CULVERT WITH FLARED ENDS
			NEW 18" DIAMETER CULVERT WITH FLARED ENDS
			NEW CULVERT WITH FLARED ENDS (SIZE INDICATED ON PLANS)
			NEW CENTER OF DRAINAGE FEATURE
			NEW FIBER VAULT
			NEW VACANT COMMS DUCT
			NEW PHONE LINE
			NEW POWER TRANSFORMER
			NEW POWER JUNCTION
			NEW POWER LINE
			NEW FIRE HYDRANT
			NEW WATER MANHOLE
			NEW WATER WELL
			NEW 6" WATER LINE
			NEW 3" WATER LINE
			NEW BUILDING ENVELOPE
			NEW MAILBOOK
			NEW MINOR CONTOURS
			NEW MAJOR CONTOURS
			LIMITS OF CONSTRUCTION
			PROPOSED ROAD/DRIVE CENTERLINE

STA - STATION  
EL - ELEVATION  
VPI - VERTICAL POINT OF INTERSECTION  
HP - HIGH POINT  
VPC - VERTICAL POINT OF CURVATURE  
L - LENGTH  
R - RADIUS  
VPT - VERTICAL POINT OF TANGENCY

# GRAVEL ROAD TYPICAL SECTION

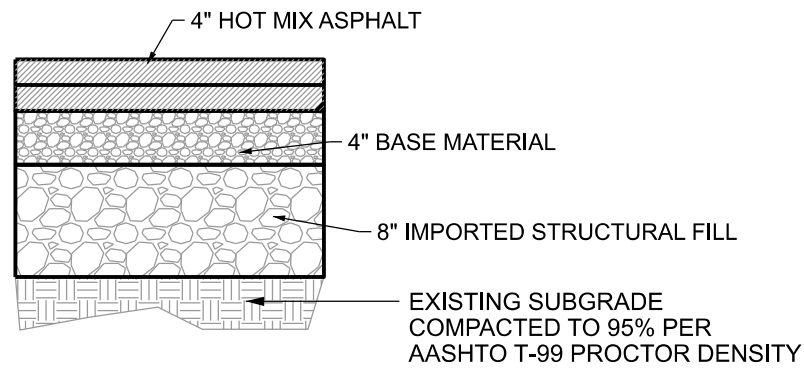


## NOTES:

1. REMOVE EXISTING TOPSOIL AND ORGANIC MATERIAL TO GET TO SUITABLE SUBGRADE MATERIAL.
2. COORDINATE WITH TETON COUNTY, IDAHO FOR REQUIRED ROAD INSPECTIONS.

## ASPHALT PAVEMENT SECTION

NOT TO SCALE. APPLIES ONLY TO ACCESSES OFF OF W. 4000 N. ROAD



NOTE: HOT MIX ASPHALT AND BASE MATERIAL TO MEET TETON COUNTY, IDAHO SPECIFICATIONS.

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	JOB #: 21109.ID

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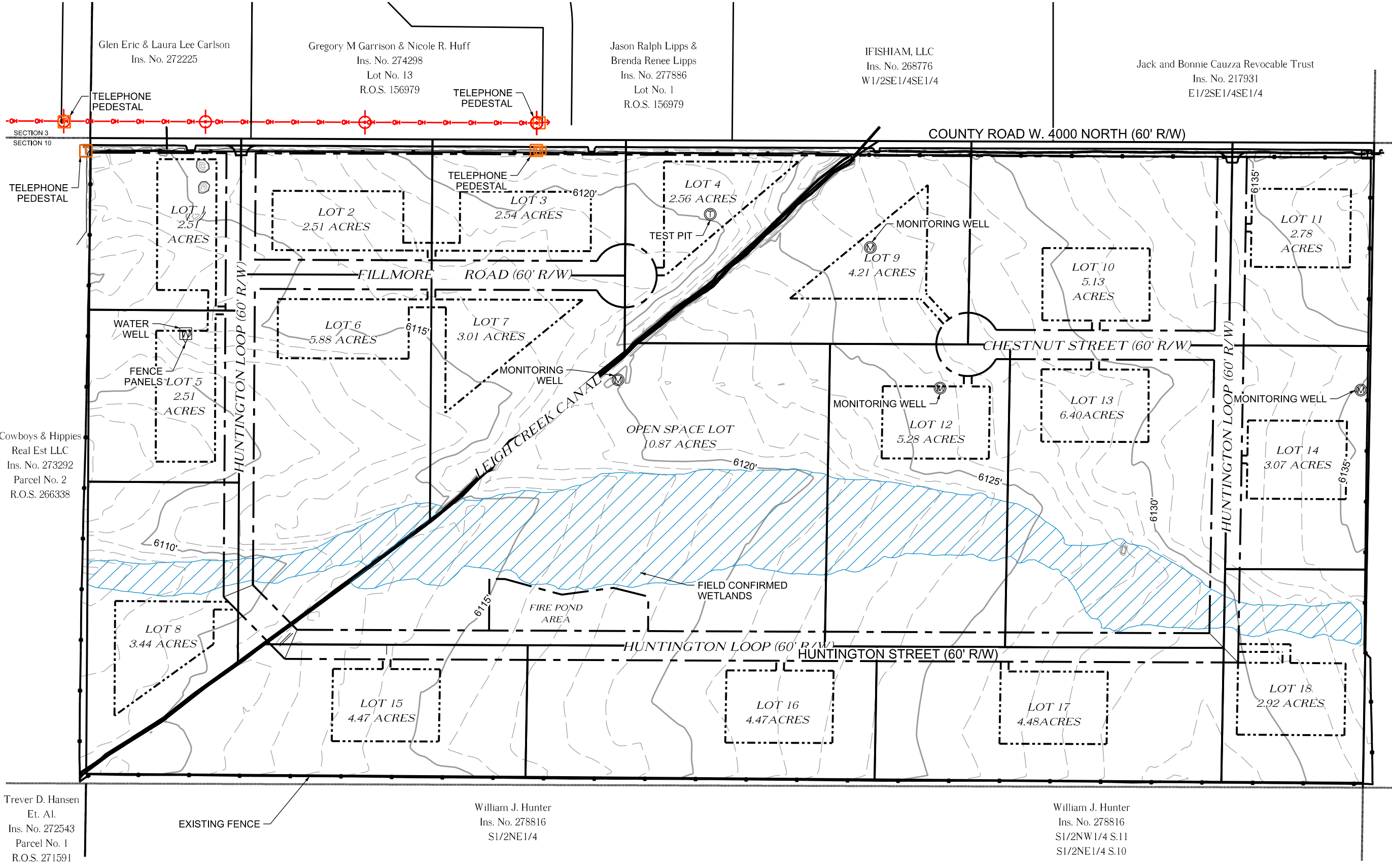
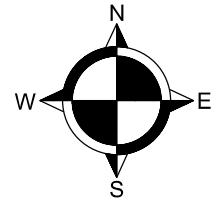
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307.733.2999

PRELIMINARY PLAT DEVELOPMENT PLANS

JC RANCHES SUBDIVISION  
SECTION 10, T5N, R45E  
TETON COUNTY IDAHO

TYPICAL SECTION

C0.3



Glen Eric & Laura Lee Carlson  
Ins. No. 272225

Gregory M Garrison & Nicole R. Huff  
Ins. No. 274298  
Lot No. 13  
R.O.S. 156979

Jason Ralph Lipps &  
Brenda Renee Lipps  
Ins. No. 277886  
Lot No. 1  
R.O.S. 156979

IFISHIAM, LLC  
Ins. No. 268776  
W1/2SE1/4SE1/4

Jack and Bonnie Cauzza Revocable Trust  
Ins. No. 217931  
E1/2SE1/4SE1/4

SECTION 3  
SECTION 10

TELEPHONE  
PEDESTAL

LOT 1  
2.51  
ACRES

LOT 2  
2.51 ACRES

LOT 3  
2.54 ACRES

LOT 4  
2.56 ACRES

LOT 9  
4.21 ACRES

LOT 10  
5.13  
ACRES

LOT 11  
2.78  
ACRES

WATER  
WELL  
FENCE  
PANELS  
LOT 5  
2.51  
ACRES

LOT 6  
5.88 ACRES

LOT 7  
3.01 ACRES

OPEN SPACE LOT  
10.87 ACRES

MONITORING WELL  
LOT 12  
5.28 ACRES

LOT 13  
6.40 ACRES

MONITORING WELL  
LOT 14  
3.07 ACRES

Cowboys & Hippies  
Real Est LLC  
Ins. No. 273292  
Parcel No. 2  
R.O.S. 266338

LOT 8  
3.44 ACRES

FIRE POND  
AREA

FIELD CONFIRMED  
WETLANDS

LOT 15  
4.47 ACRES

LOT 16  
4.47 ACRES

LOT 17  
4.48 ACRES

LOT 18  
2.92 ACRES

Trever D. Hansen  
Et. Al.  
Ins. No. 272543  
Parcel No. 1  
R.O.S. 271591

EXISTING FENCE

William J. Hunter  
Ins. No. 278816  
S1/2NE1/4

William J. Hunter  
Ins. No. 278816  
S1/2NW1/4 S.11  
S1/2NE1/4 S.10

DRAWING SET TITLE	PRELIMINARY PLAT
DATE	AUGUST 12, 2024
DRAWN BY:	BNI/CD
CHECKED BY:	AL
JOB #:	21109.ID

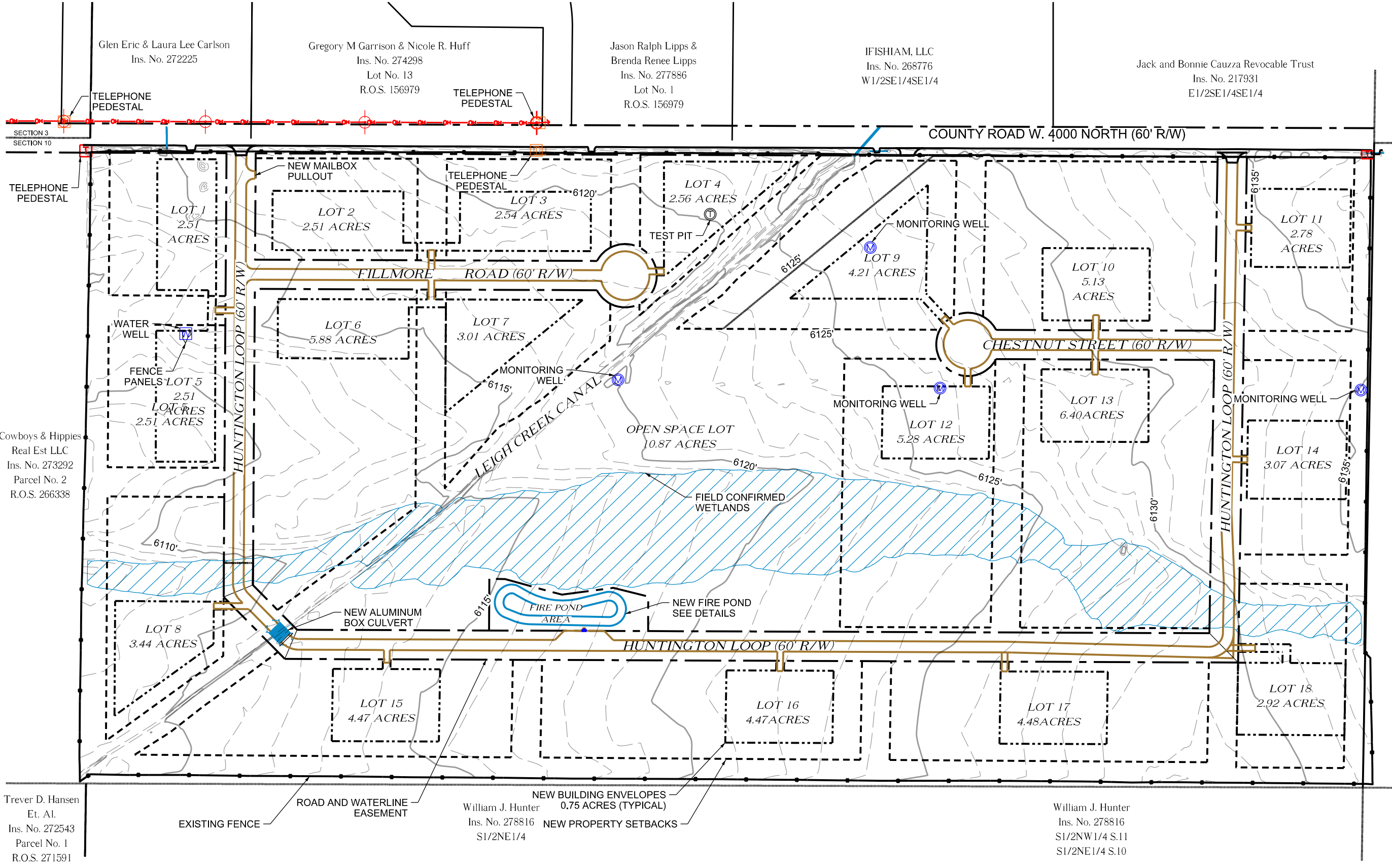
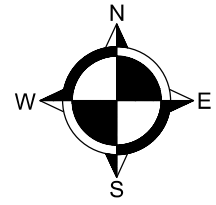
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PRELIMINARY PLAT DEVELOPMENT PLANS  
JC RANCHES SUBDIVISION  
SECTION 10, T5N, R45E  
TETON COUNTY IDAHO

EXISTING  
CONDITIONS

C1.1





Glen Eric & Laura Lee Carlson  
Ins. No. 272225

Gregory M Garrison & Nicole R. Huff  
Ins. No. 274298  
Lot No. 13  
R.O.S. 156979

Jason Ralph Lipps &  
Brenda Renee Lipps  
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W1/2SE1/4SE1/4

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Ins. No. 217931  
E1/2SE1/4SE1/4

SECTION 3  
SECTION 10

COUNTY ROAD W. 4000 NORTH (60' R/W)

TELEPHONE  
PEDESTAL

LOT 1  
2.51  
ACRES

LOT 2  
2.51 ACRES

LOT 3  
2.54 ACRES

LOT 4  
2.56 ACRES

LOT 9  
4.21 ACRES

LOT 10  
5.13  
ACRES

LOT 11  
2.78  
ACRES

LOT 5  
2.51  
ACRES

LOT 6  
5.88 ACRES

LOT 7  
3.01 ACRES

LOT 12  
5.28 ACRES

LOT 13  
6.40 ACRES

LOT 14  
3.07 ACRES

OPEN SPACE LOT  
10.87 ACRES

LOT 8  
3.44 ACRES

LOT 15  
4.47 ACRES

LOT 16  
4.47 ACRES

LOT 17  
4.48 ACRES

LOT 18  
2.92 ACRES

Cowboys & Hippies  
Real Est LLC  
Ins. No. 273292  
Parcel No. 2  
R.O.S. 266338

Trever D. Hansen  
Et. Al.  
Ins. No. 272543  
Parcel No. 1  
R.O.S. 271591

William J. Hunter  
Ins. No. 278816  
S1/2NE1/4  
NEW BUILDING ENVELOPES  
0.75 ACRES (TYPICAL)  
NEW PROPERTY SETBACKS

William J. Hunter  
Ins. No. 278816  
S1/2NW1/4 S.11  
S1/2NE1/4 S.10

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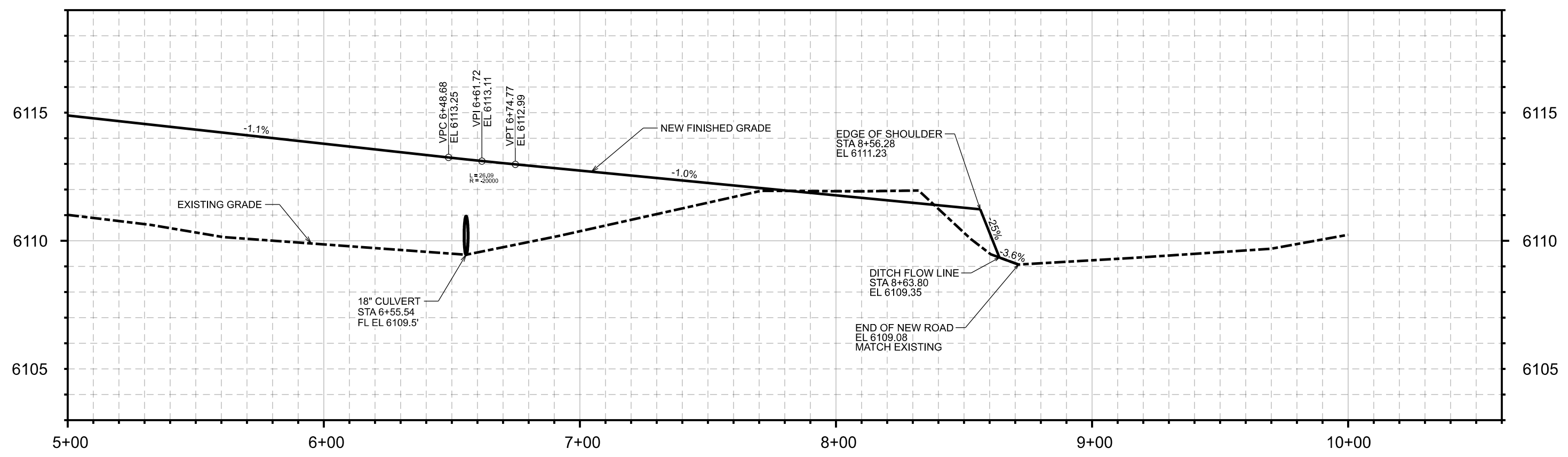
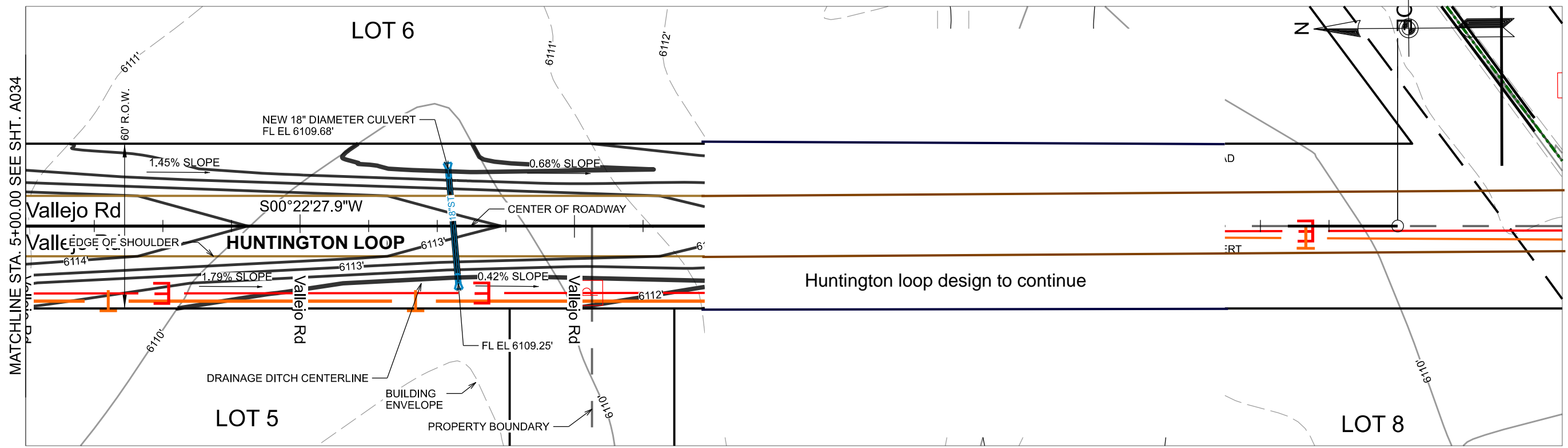
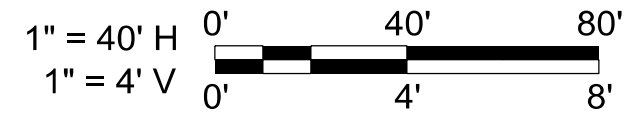
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PRELIMINARY PLAT DEVELOPMENT PLANS  
JC RANCHES SUBDIVISION  
SECTION 10, T5N, R45E  
TETON COUNTY IDAHO

SITE PLAN

C1.2





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PRELIMINARY PLAT DEVELOPMENT PLANS

JC RANCHES SUBDIVISION

SECTION 10, T5N, R45E

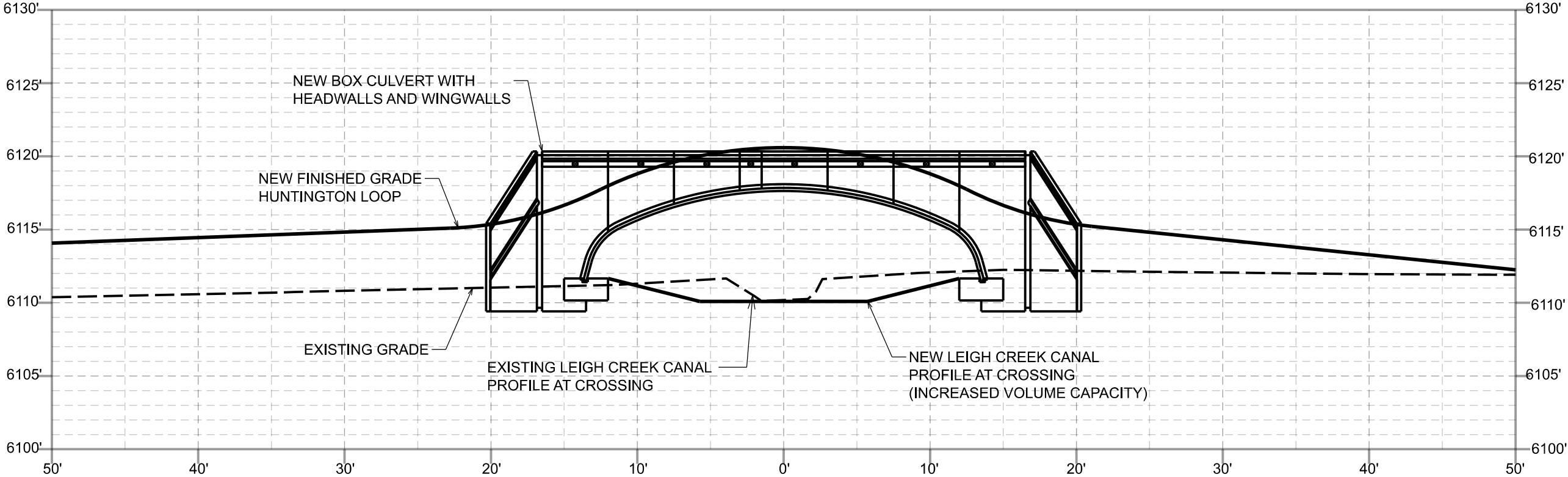
TETON COUNTY IDAHO

HUNTINGTON LOOP  
PLAN & PROFILE

**C2.2**

# JC RANCHES - CANAL CROSSING - BOX CULVERT SKETCH

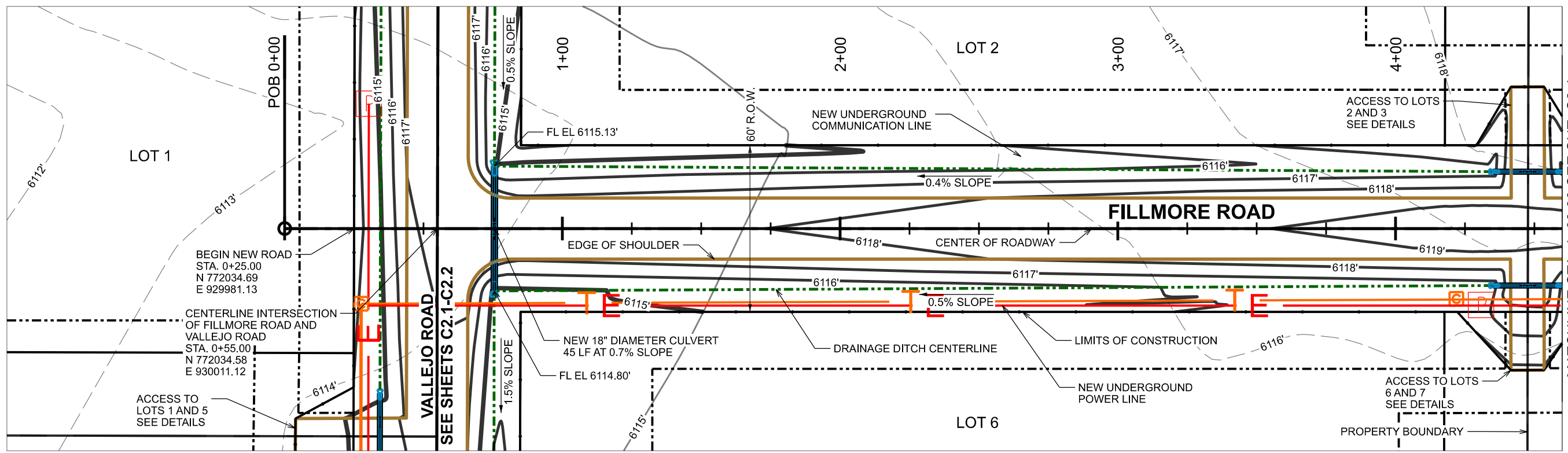
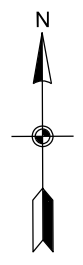
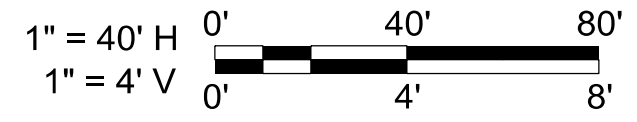
JULY 26, 2024



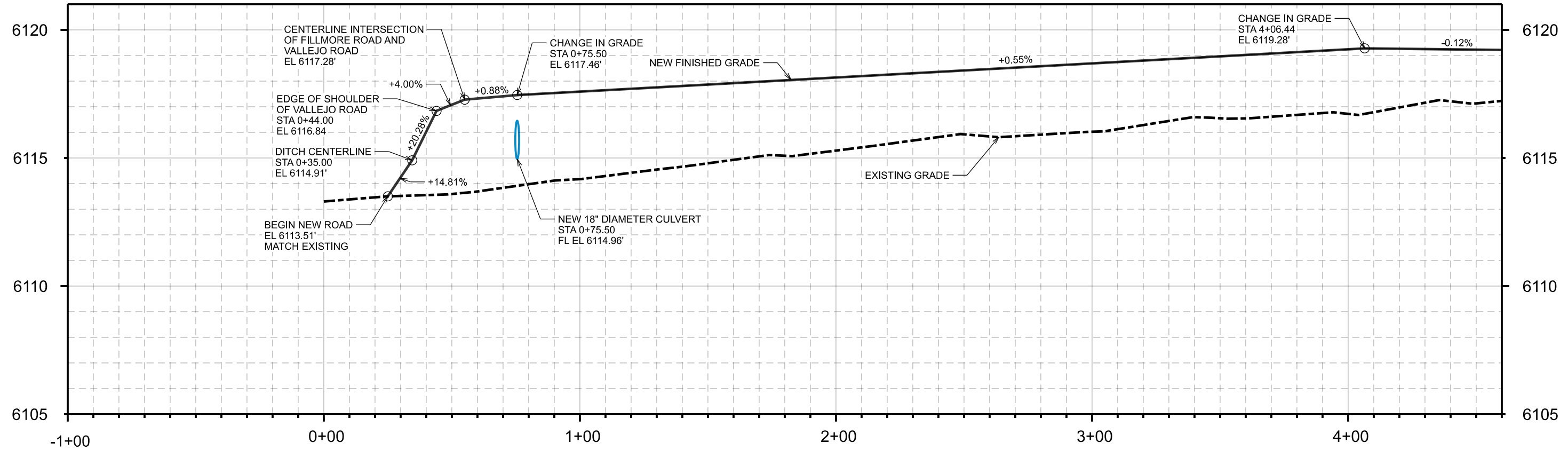
**Proposed structure**

- Aluminum box culvert - 27'-0" span x 6'-3" Rise
- Flow Capacity per Manning's Equation
  - $Q = A * 1.486 / n * R^{2/3} * S^{1/2}$
  - A = Cross Sectional Area of flow (ft<sup>2</sup>) = 153.45 feet from CAD cross section
  - n = 0.013
  - R = Hydraulic Radius = Area/wetted perimeter = 153.45/52.57 = 2.92
  - S = Longitudinal slope = 0.0094 ft/ft from survey
  - Q = 3,470 CFS > 3,320 CFS min





NOTE:  
1. SEE LOT ACCESS DETAILS FOR ADDITIONAL DIMENSIONS AND ELEVATIONS.



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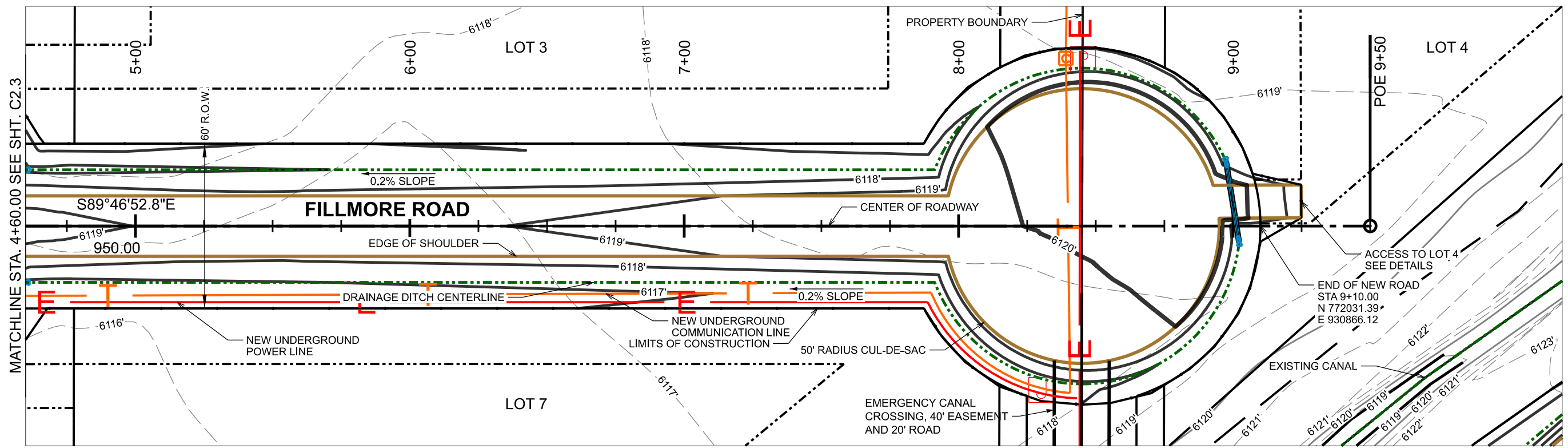
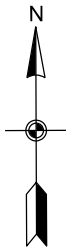
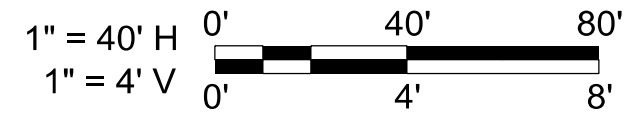
PRELIMINARY PLAT DEVELOPMENT PLANS

JC RANCHES SUBDIVISION

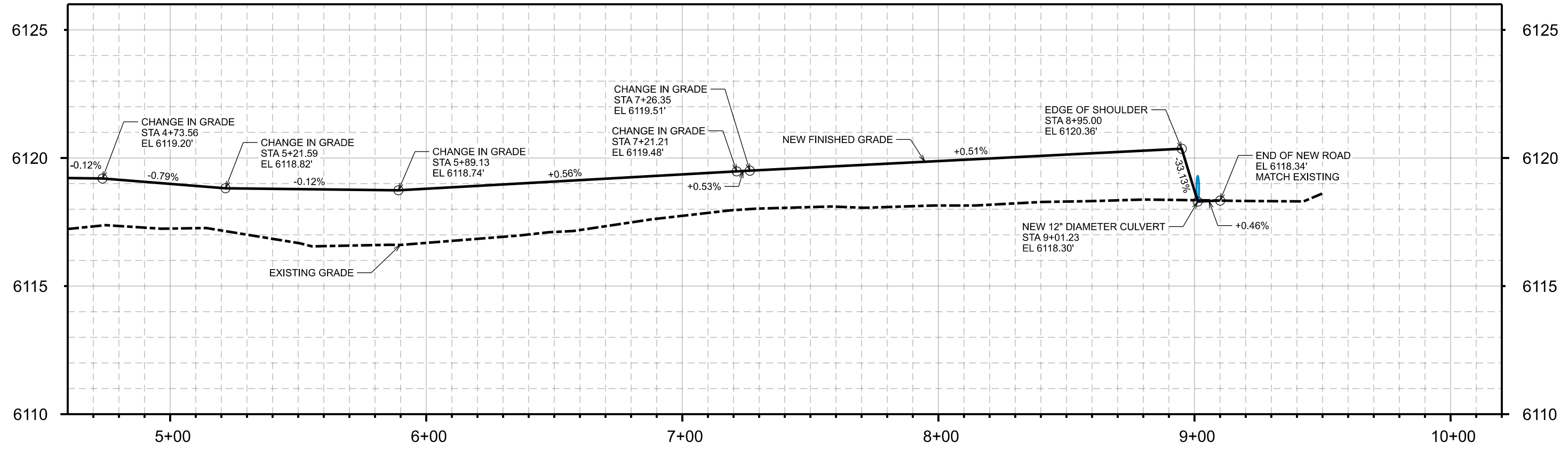
SECTION 10, T5N, R45E  
TETON COUNTY IDAHO

FILLMORE ROAD  
PLAN & PROFILE

C2.3



NOTE:  
1. SEE LOT ACCESS DETAILS FOR ADDITIONAL DIMENSIONS AND ELEVATIONS.



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PRELIMINARY PLAT DEVELOPMENT PLANS

JC RANCHES SUBDIVISION

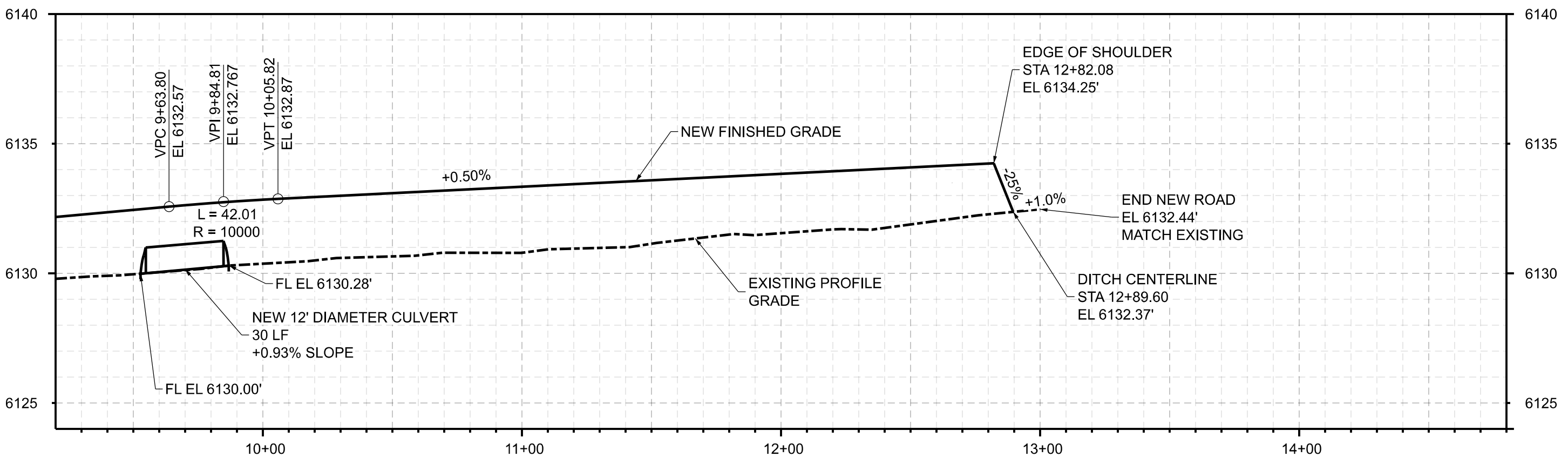
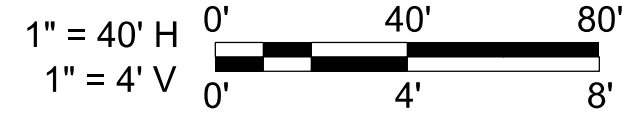
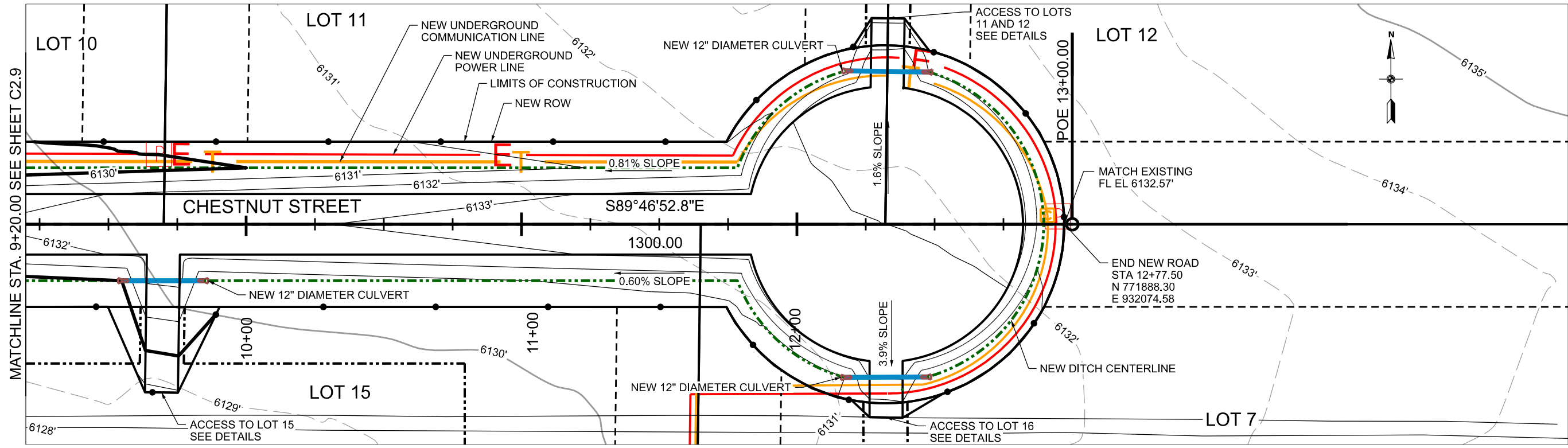
SECTION 10, T5N, R45E

TETON COUNTY IDAHO

FILLMORE ROAD  
PLAN & PROFILE

C2.4





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PRELIMINARY PLAT DEVELOPMENT PLANS  
 JC RANCHES SUBDIVISION  
 SECTION 10, T5N, R45E  
 TETON COUNTY IDAHO

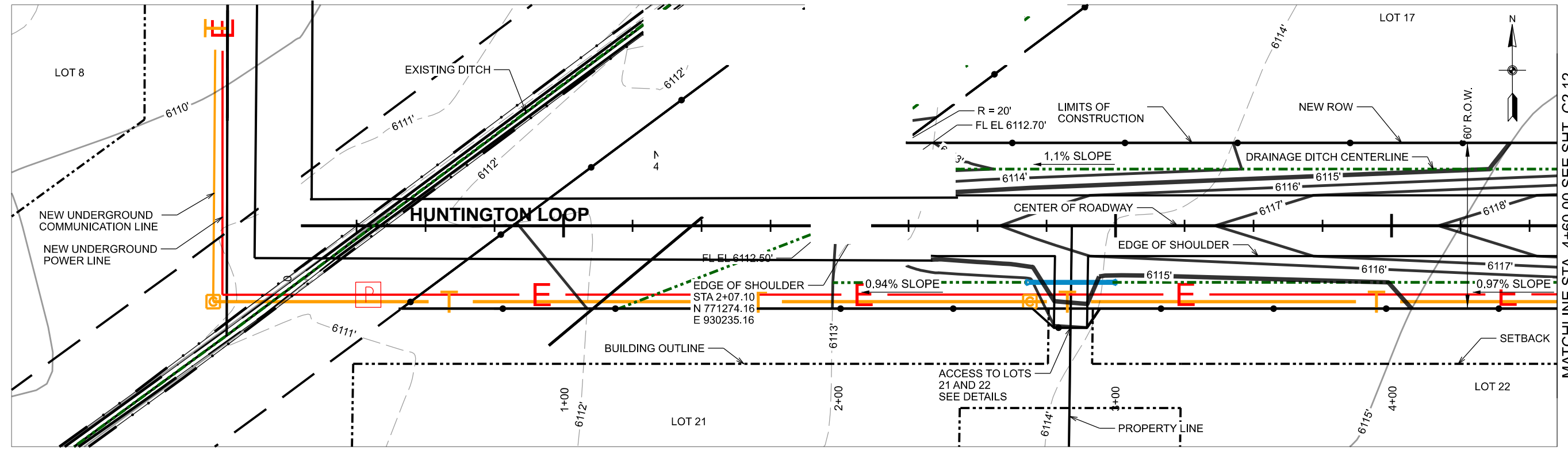
CHESTNUT STREET  
 PLAN & PROFILE

**C2.10**

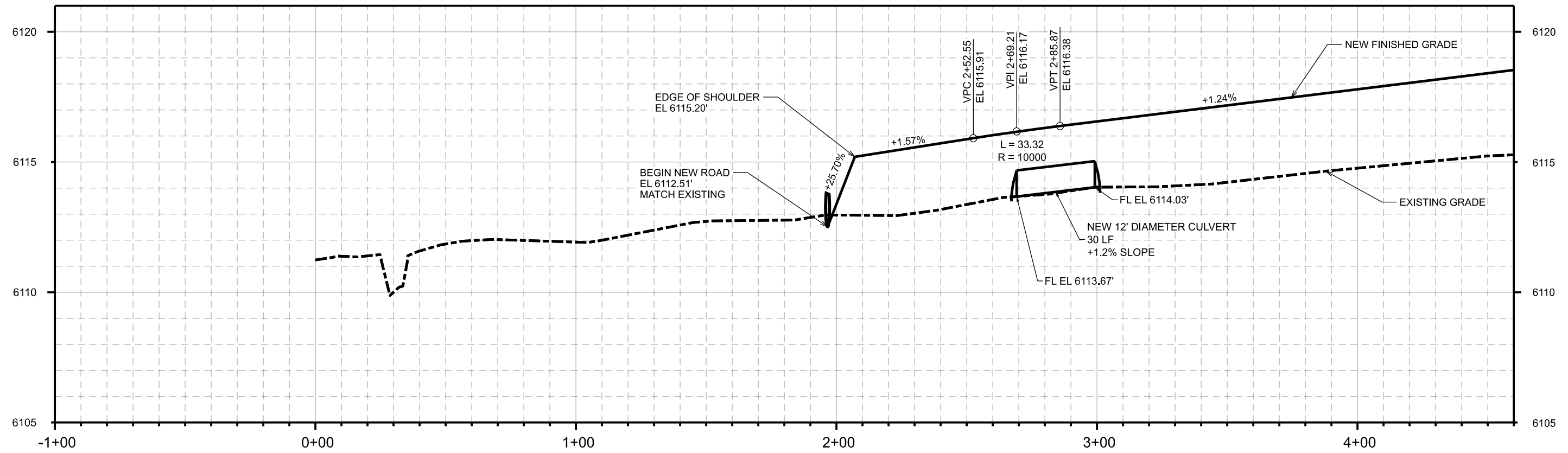


1" = 40' H  
1" = 4' V

0' 40' 80'  
0' 4' 8'



MATCHLINE STA. 4+60.00 SEE SHT. C2.12



DRAWING SET TITLE	PRELIMINARY PLAT
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PRELIMINARY PLAT	UPDATED PRELIMINARY
DATE	JUNE 21, 2024
PRELIMINARY PLAT	PRELIMINARY CANAL CROSS
DRAWN BY:	BNI/CD
CHECKED BY:	AL
JOB #:	21109.ID

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PRELIMINARY PLAT DEVELOPMENT PLANS

JC RANCHES SUBDIVISION

SECTION 10, T5N, R45E

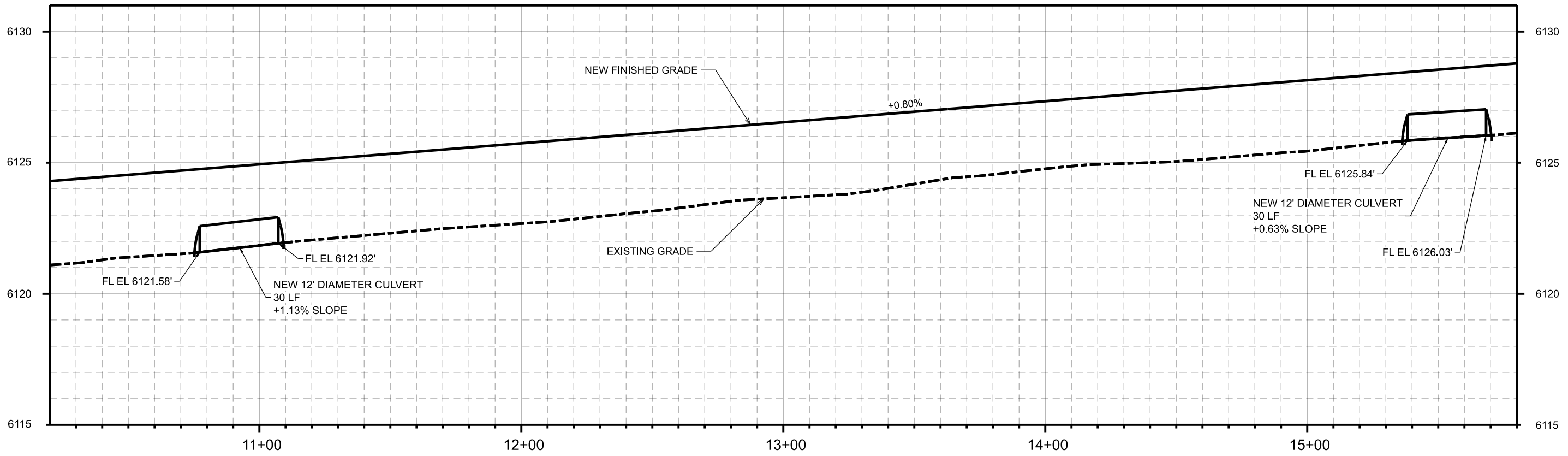
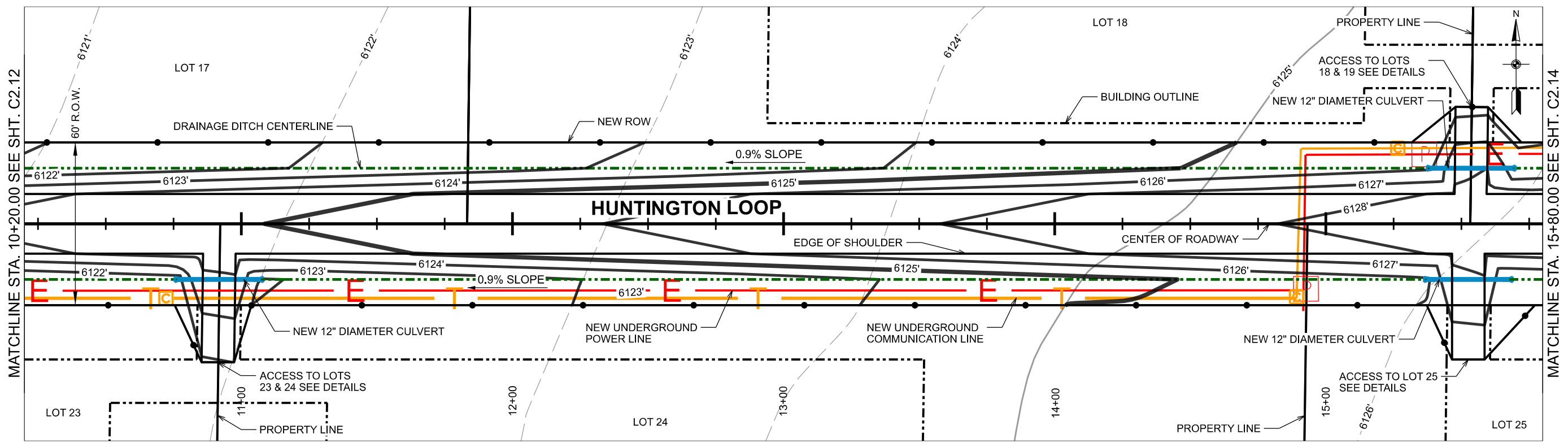
TETON COUNTY IDAHO

HUNTINGTON LOOP  
PLAN & PROFILE

C2.11



1" = 40' H  
1" = 4' V



DRAWING SET TITLE	PRELIMINARY PLAT
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	UPDATED PRELIMINARY
	JUNE 21, 2024 PRELIMINARY CANAL CROSS
DRAWN BY:	BNI/CD
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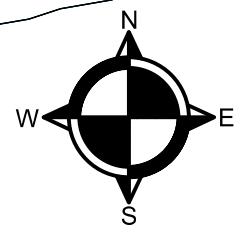
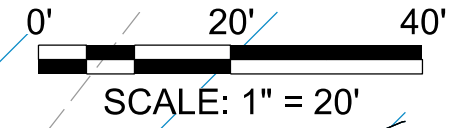
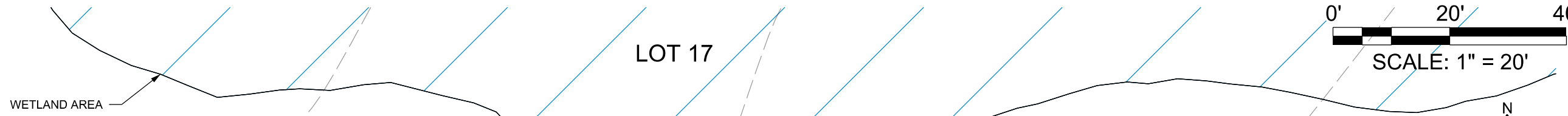
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JC RANCHES SUBDIVISION  
SECTION 10, T5N, R45E  
TETON COUNTY IDAHO

HUNTINGTON LOOP  
PLAN & PROFILE

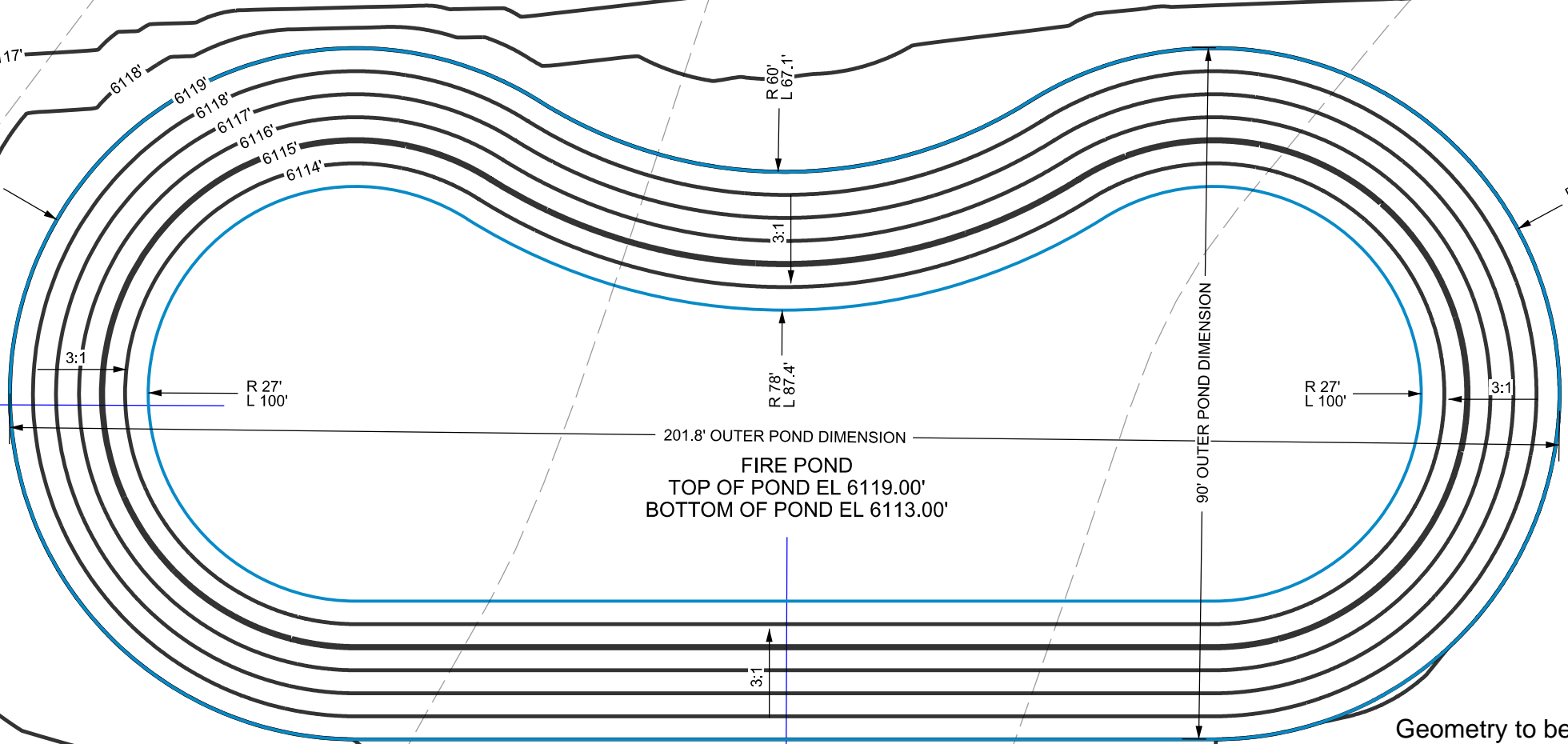
C2.13



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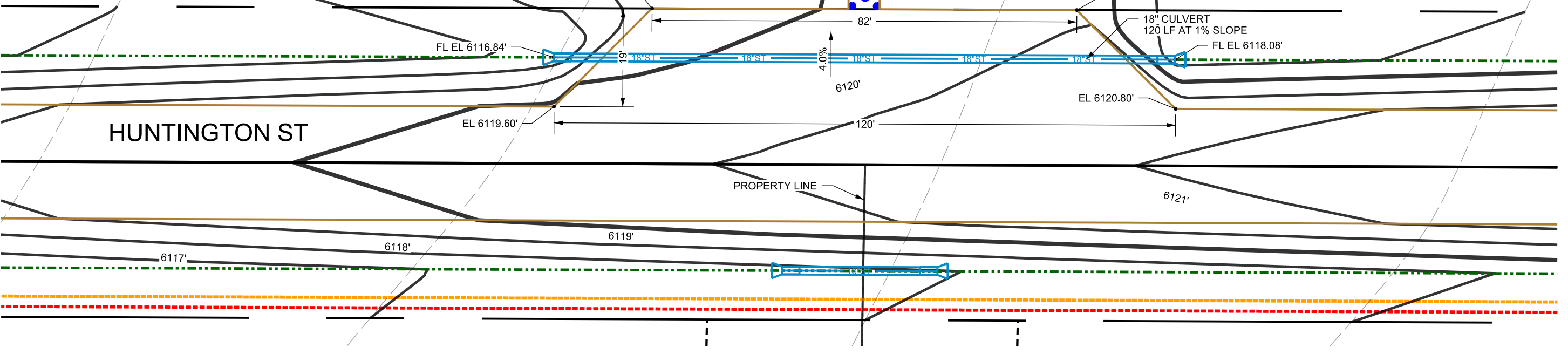
60 LF 3" POLYETHYLENE PIPE FOR POND SUPPLY  
 NEW FIRE WELL FOR POND SUPPLY  
 NEW WATER MANHOLE WITH FLOAT CONTROLS OR PRESSURE TRANSDUCER



Geometry to be updated to stay out of wetlands

DRY HYDRANT 3' RADIUS LEVEL PAD SEE DETAILS

18" CULVERT 120 LF AT 1% SLOPE  
 FL EL 6118.08'



PRELIMINARY PLAT DEVELOPMENT PLANS  
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 TETON COUNTY IDAHO

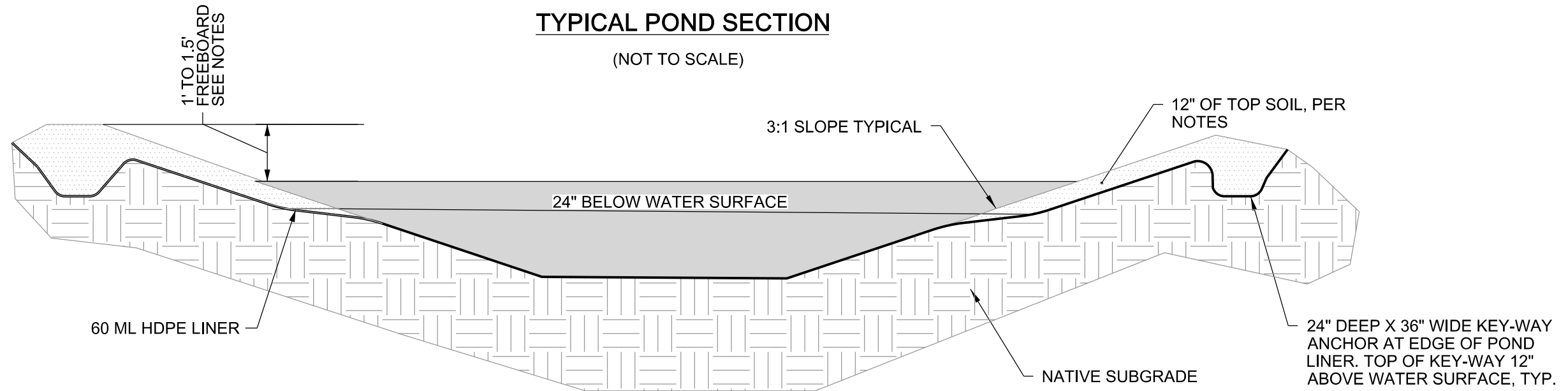
FIRE POND AND ACCESS DETAILS

C3.1



## TYPICAL POND SECTION

(NOT TO SCALE)



### NOTES:

1. SHORELINES SHALL RECEIVE A MINIMUM OF 12" TOPSOIL UNTIL THE SIDESLOPES REACHES A DEPTH OF 2'.

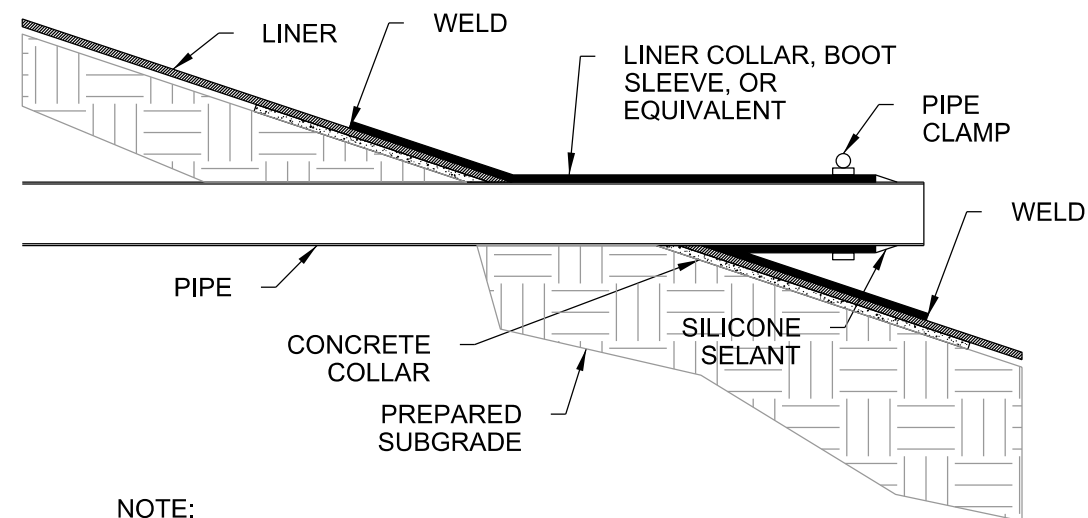
2. INSTALL DRY HYDRANT, WATER MANHOLE AND ANY SHRUB AND TREE PLANTINGS BEYOND LINER.

3. INSTALL THE HDPE LINER ACCORDING TO MANUFACTURER'S INSTRUCTIONS

4. 1.5' FREEBOARD IN SUMMER MONTHS CAN BE REDUCED TO 1' IN WINTER DUE TO ICING CAPACITY REDUCTION

## TYPICAL HDPE LINER PENETRATION DETAIL

(NOT TO SCALE)



### NOTE:

1. THIS DETAIL IS FOR GENERAL PURPOSE USE.
2. CONSTRUCT AND INSTALL PIPE PENETRATION AND LINER PER MANUFACTURER GUIDELINES.

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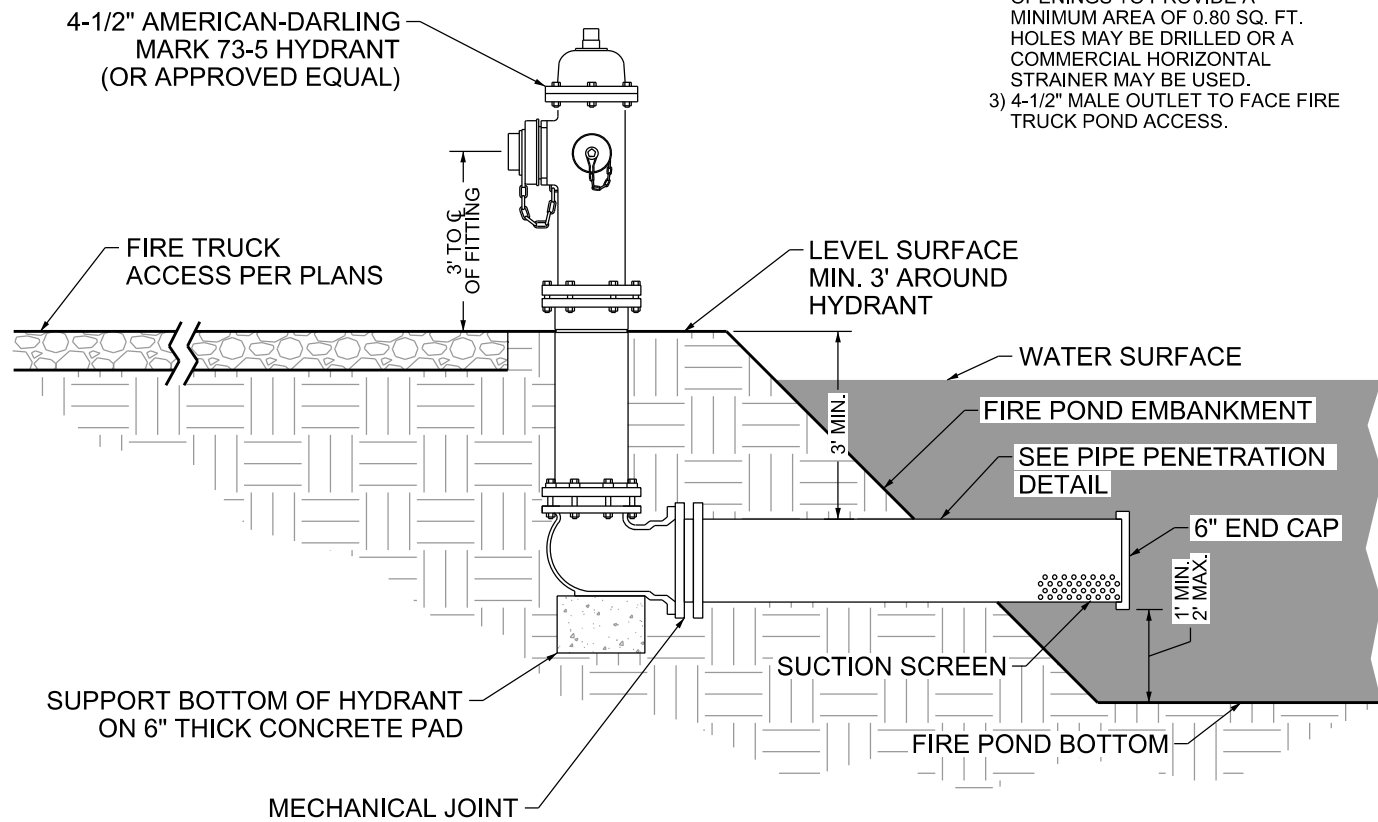
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FIRE POND  
DETAILS

C3.2

## DRY HYDRANT DETAIL

(NOT TO SCALE)

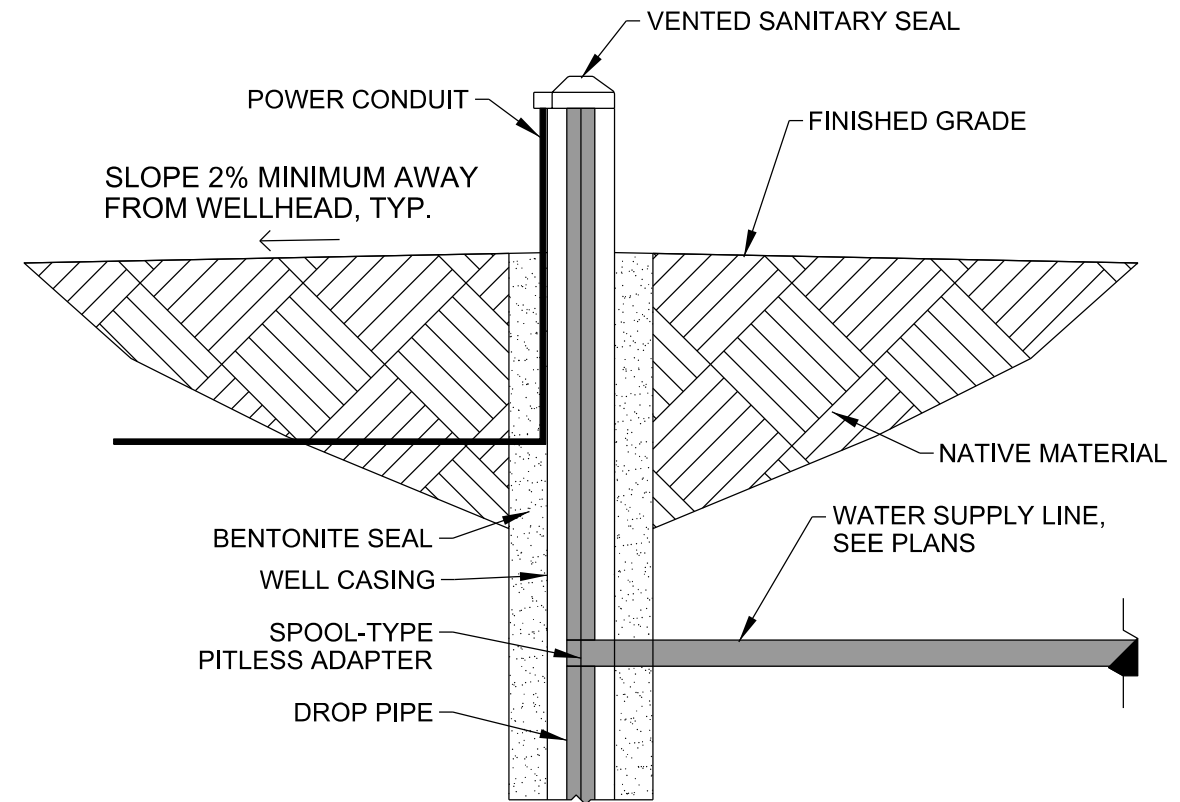


### NOTES:

- 1) PIPE AND FITTINGS TO BE C900 PVC.
- 2) SUCTION SCREEN HOLE OPENINGS TO PROVIDE A MINIMUM AREA OF 0.80 SQ. FT. HOLES MAY BE DRILLED OR A COMMERCIAL HORIZONTAL STRAINER MAY BE USED.
- 3) 4-1/2" MALE OUTLET TO FACE FIRE TRUCK POND ACCESS.

## WELL CONSTRUCTION DETAIL

(NOT TO SCALE)

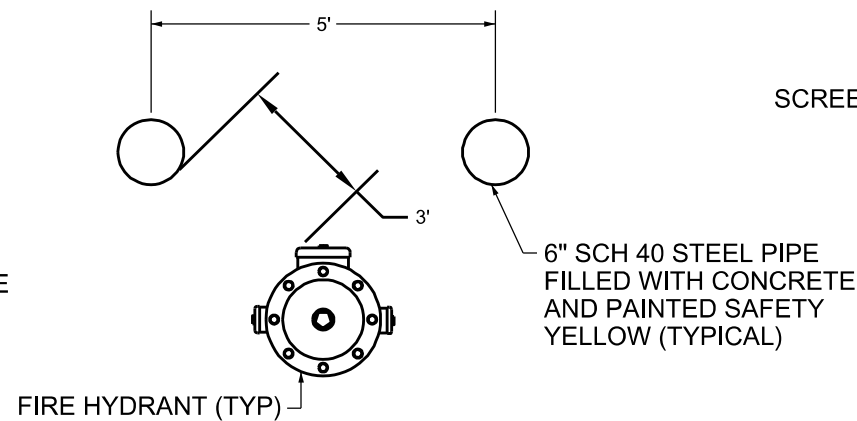
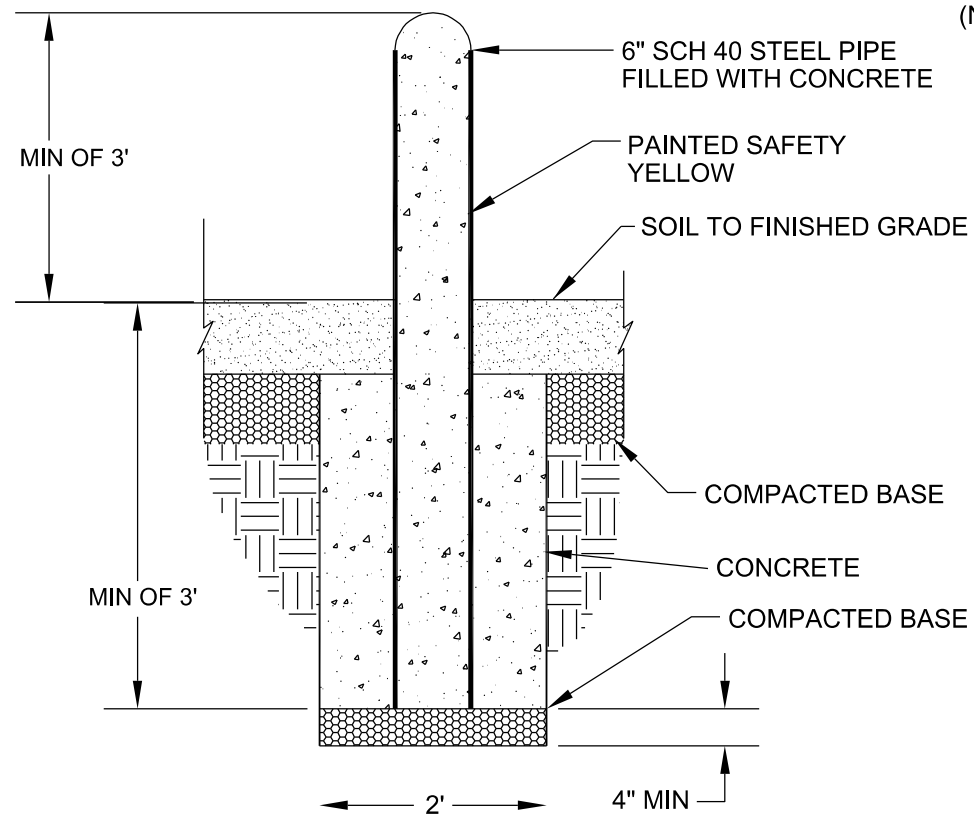


### NOTES:

1. WELL CASING SHALL BE 6" NOMINAL DIAMETER.
2. INSTALL PER IDAHO DEPARTMENT OF WATER RESOURCES WELL CONSTRUCTION STANDARDS
3. ALL PIPE, CASING, COUPLINGS, AND SCREEN MUST MEET APPLICABLE ASTM, API, NSF AND/OR AWWA STANDARDS.

## BOLLARD DETAIL

(NOT TO SCALE)



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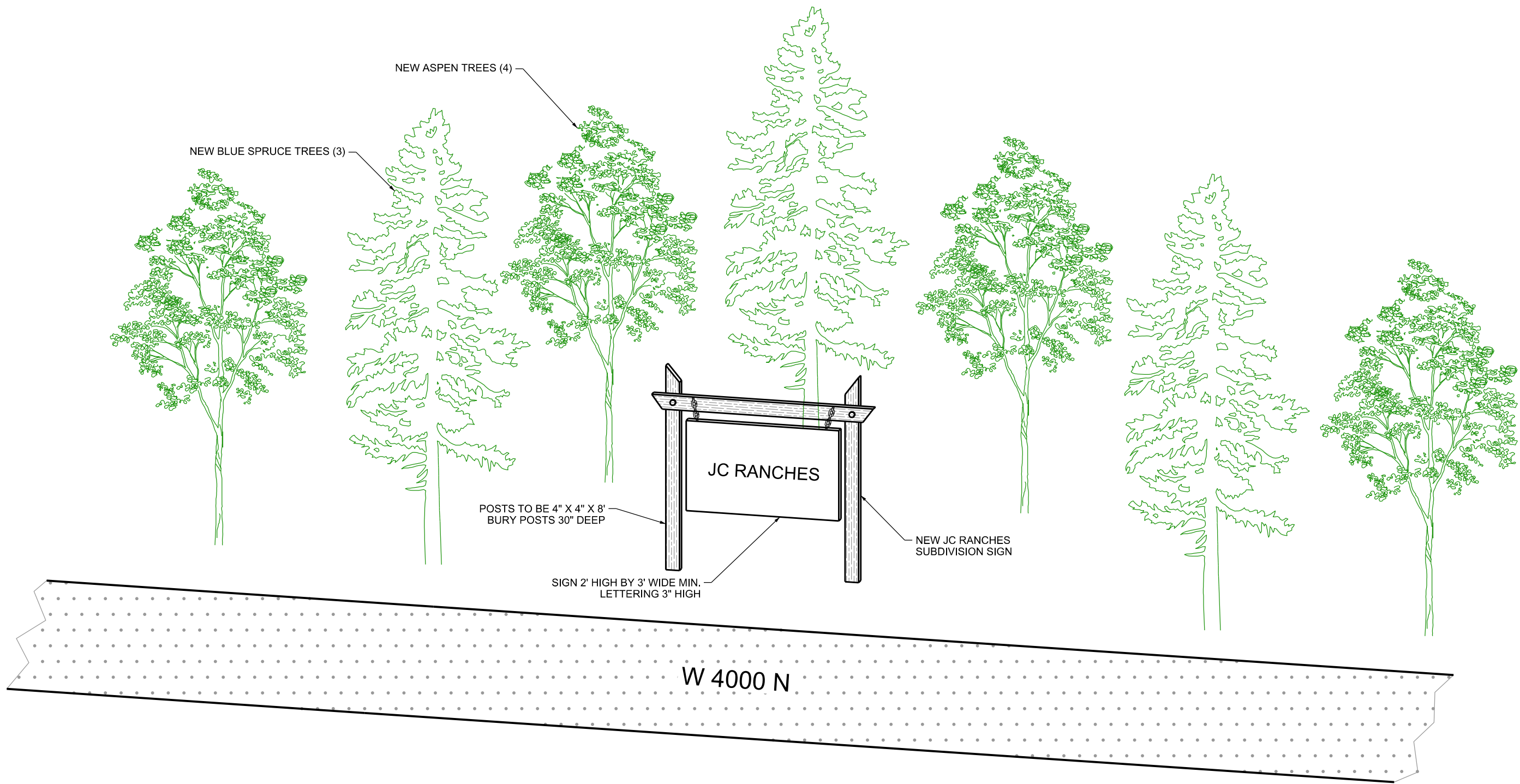
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SECTION 10, T5N, R45E  
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FIRE POND  
DETAILS

C3.3



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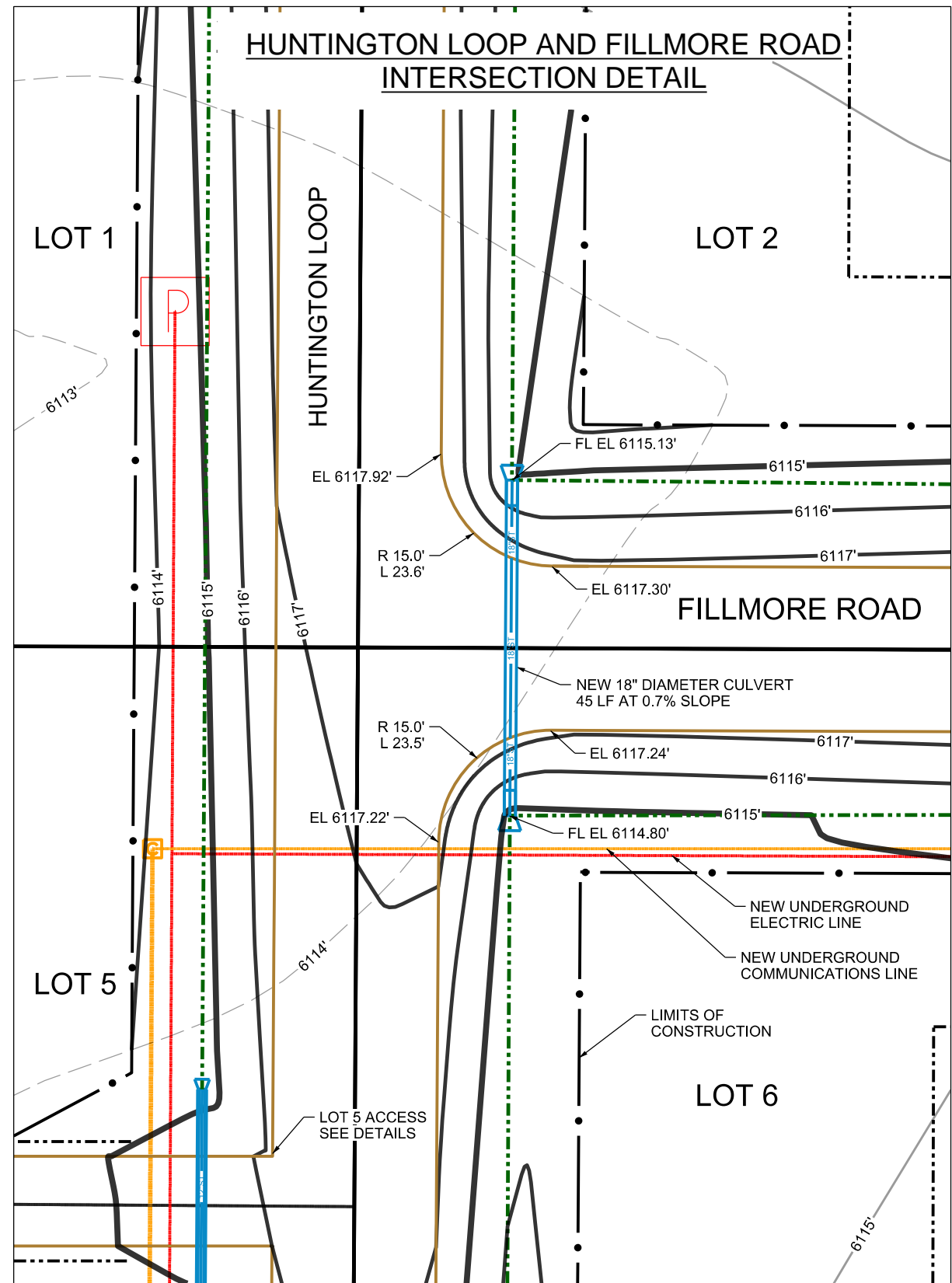
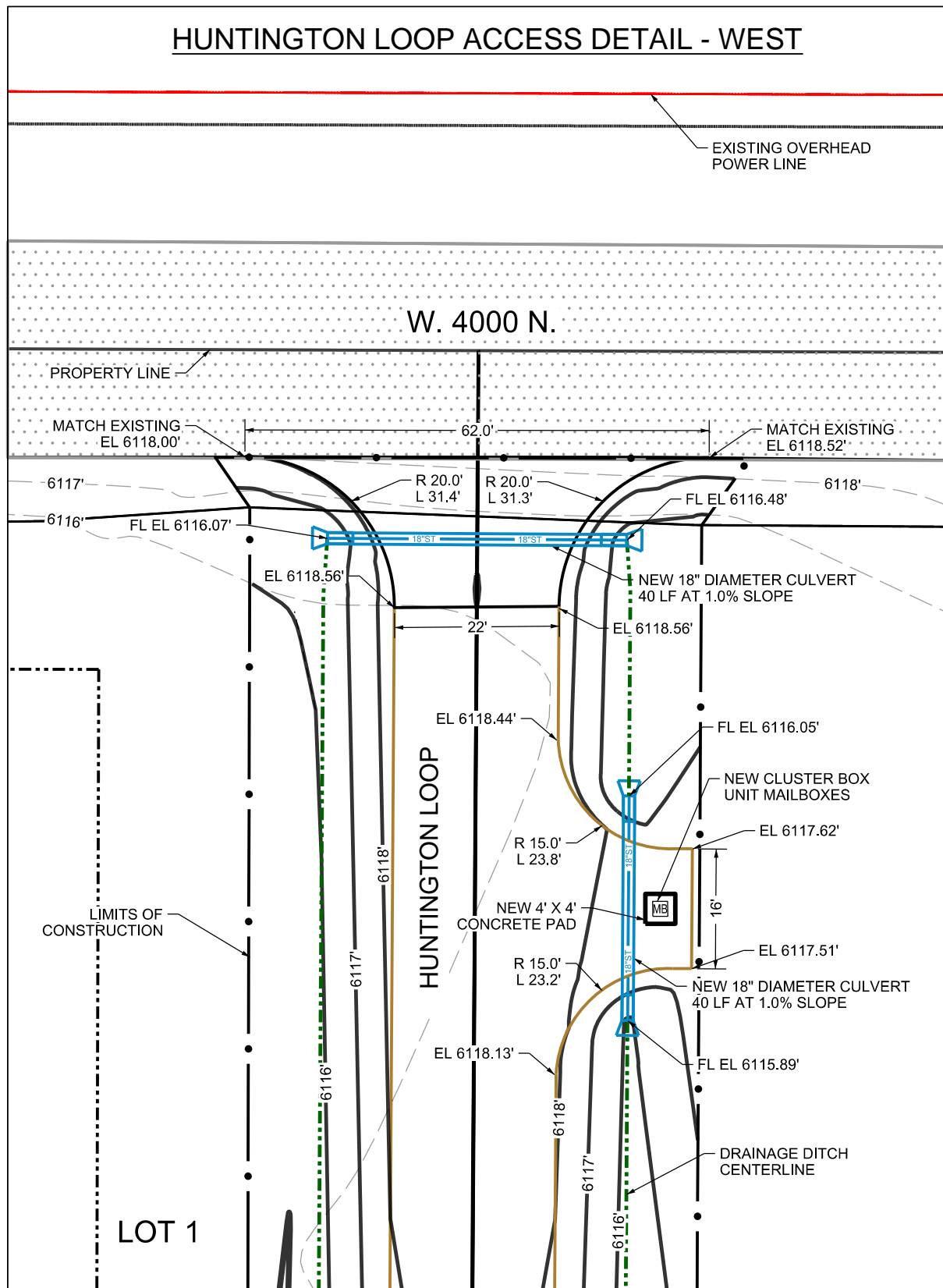
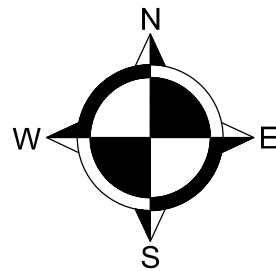
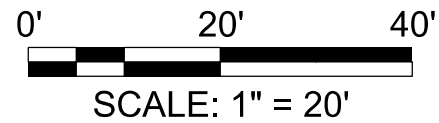
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SUBDIVISION  
 SIGN AND  
 LANDSCAPING  
 DETAIL

C3.4



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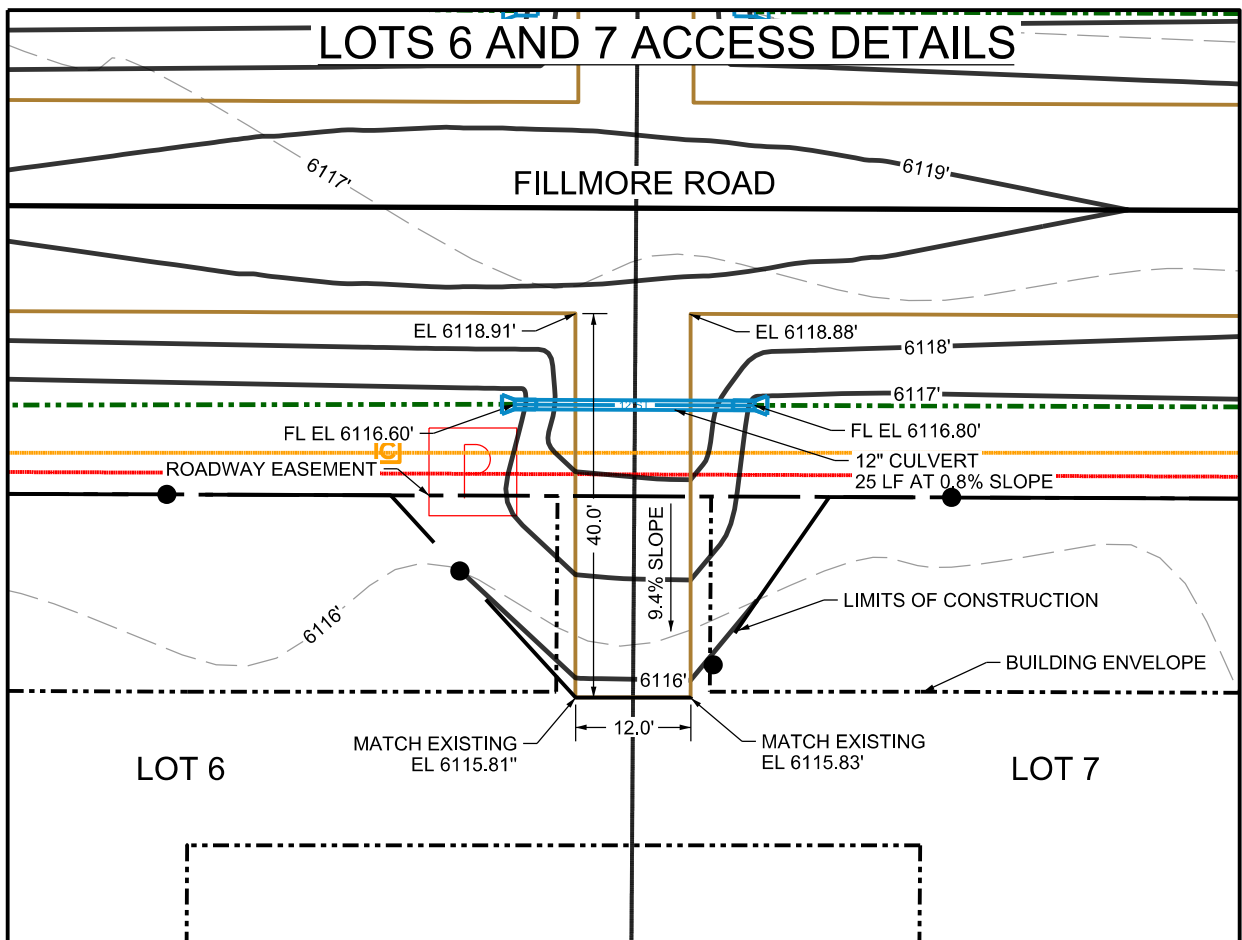
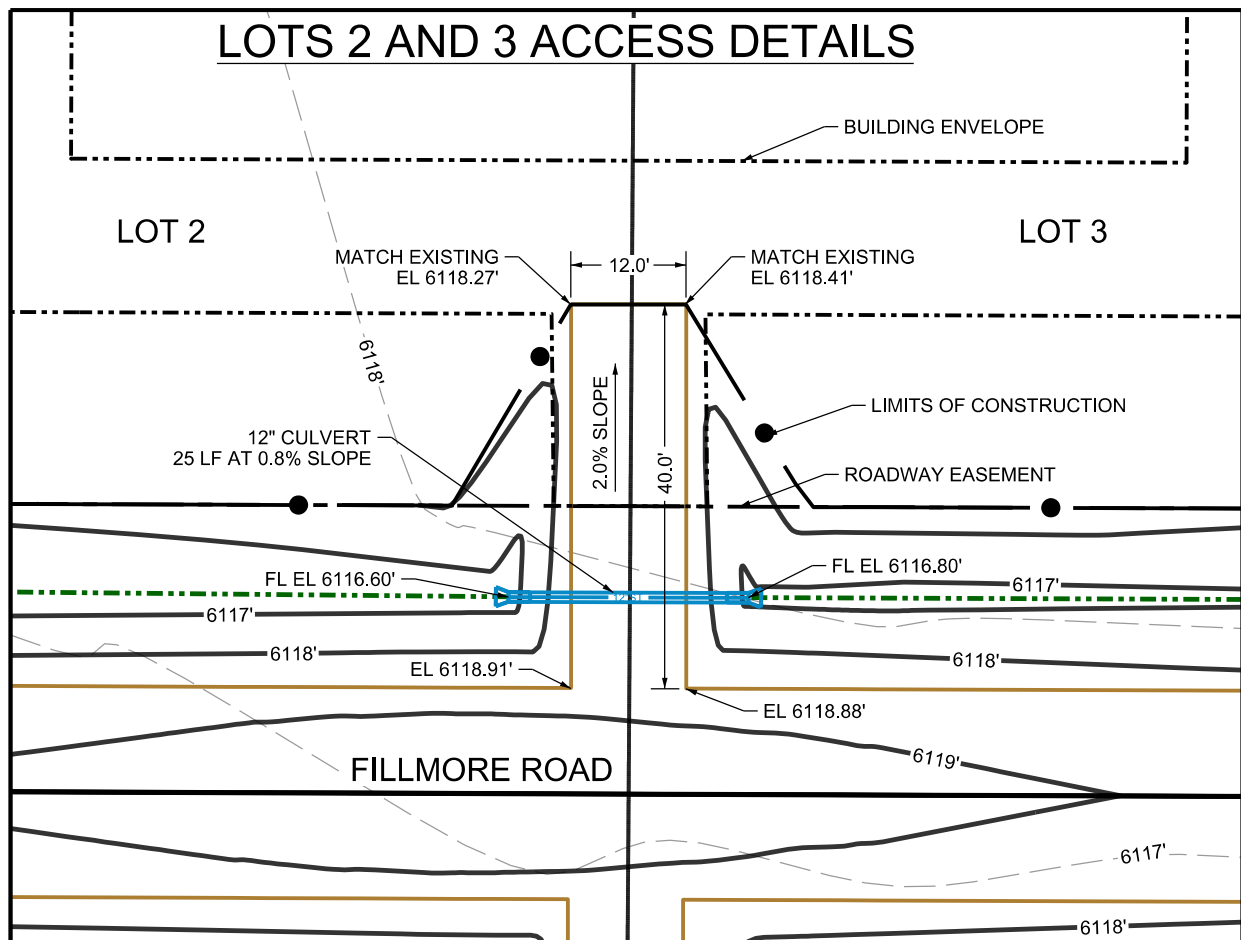
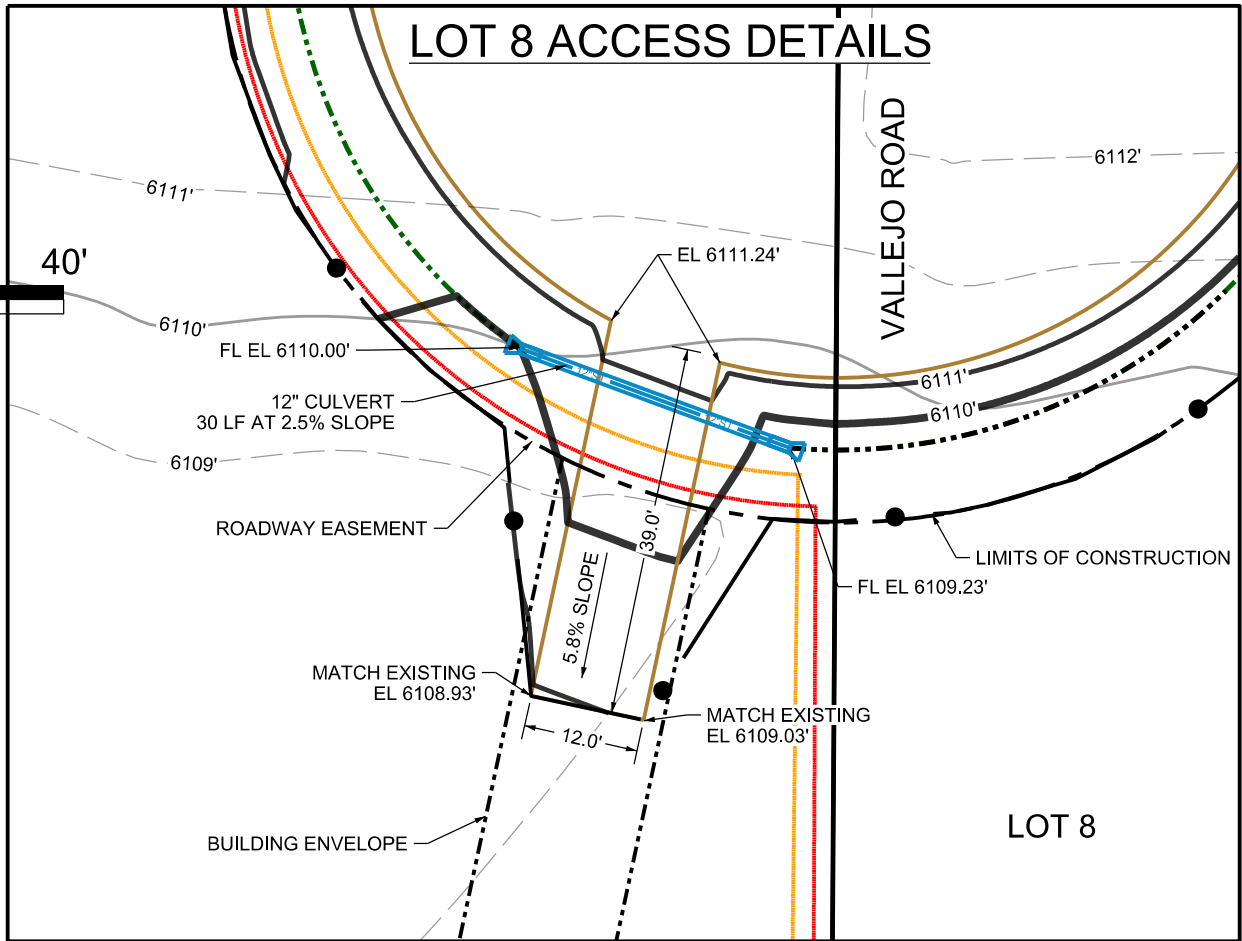
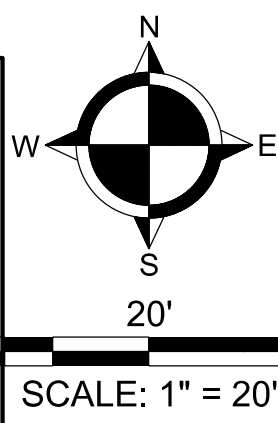
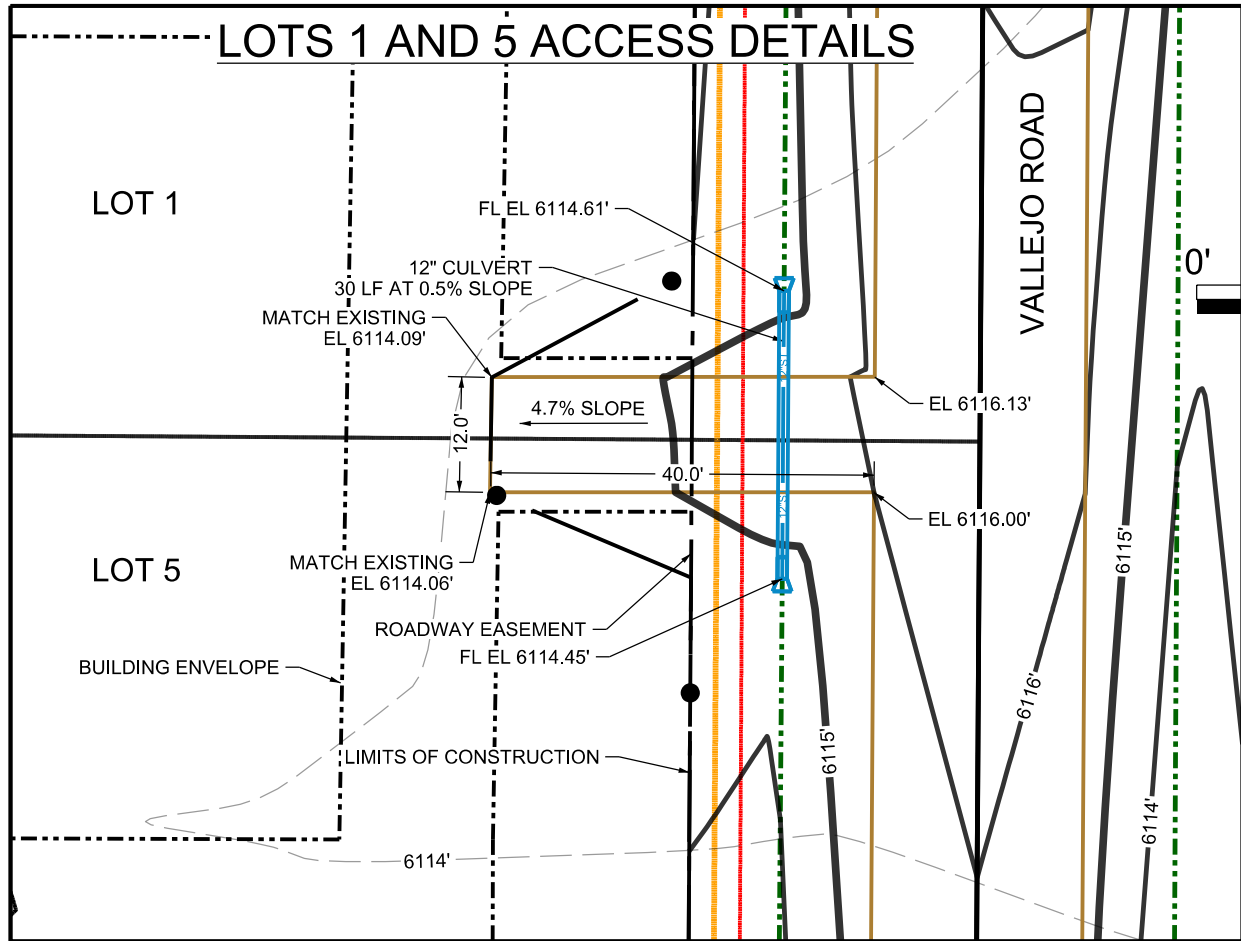
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JC RANCHES SUBDIVISION  
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ACCESS DETAILS

**C3.5**





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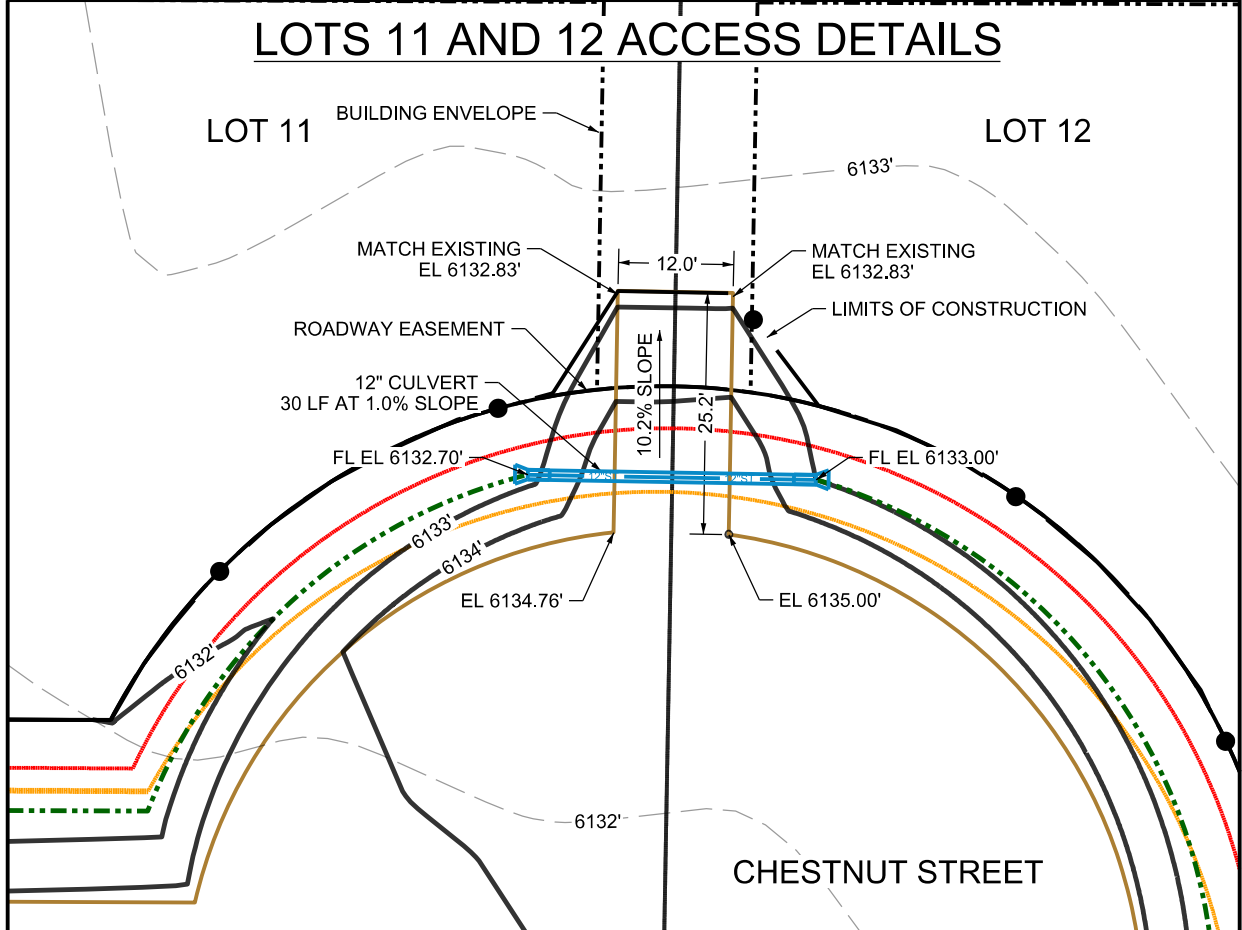
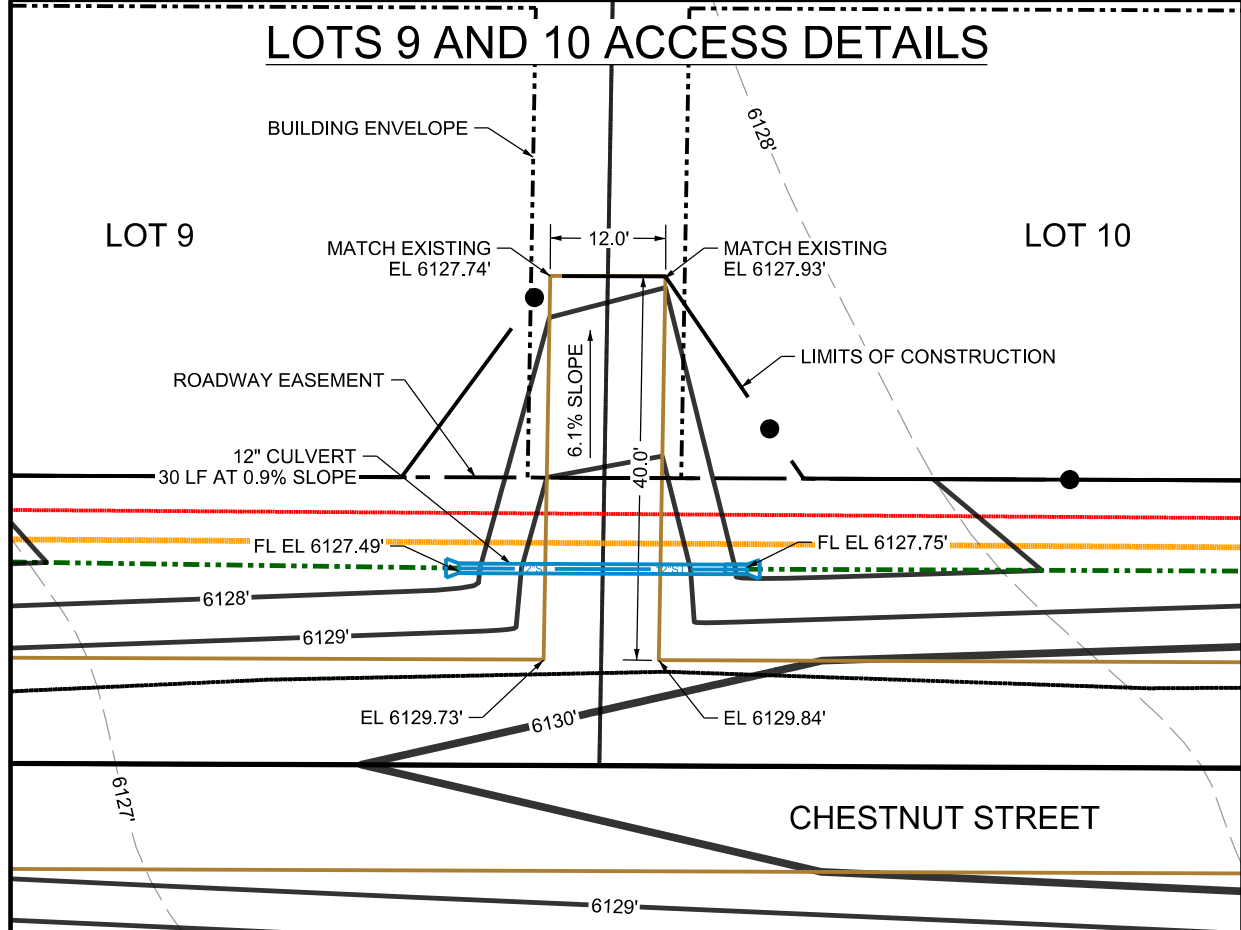
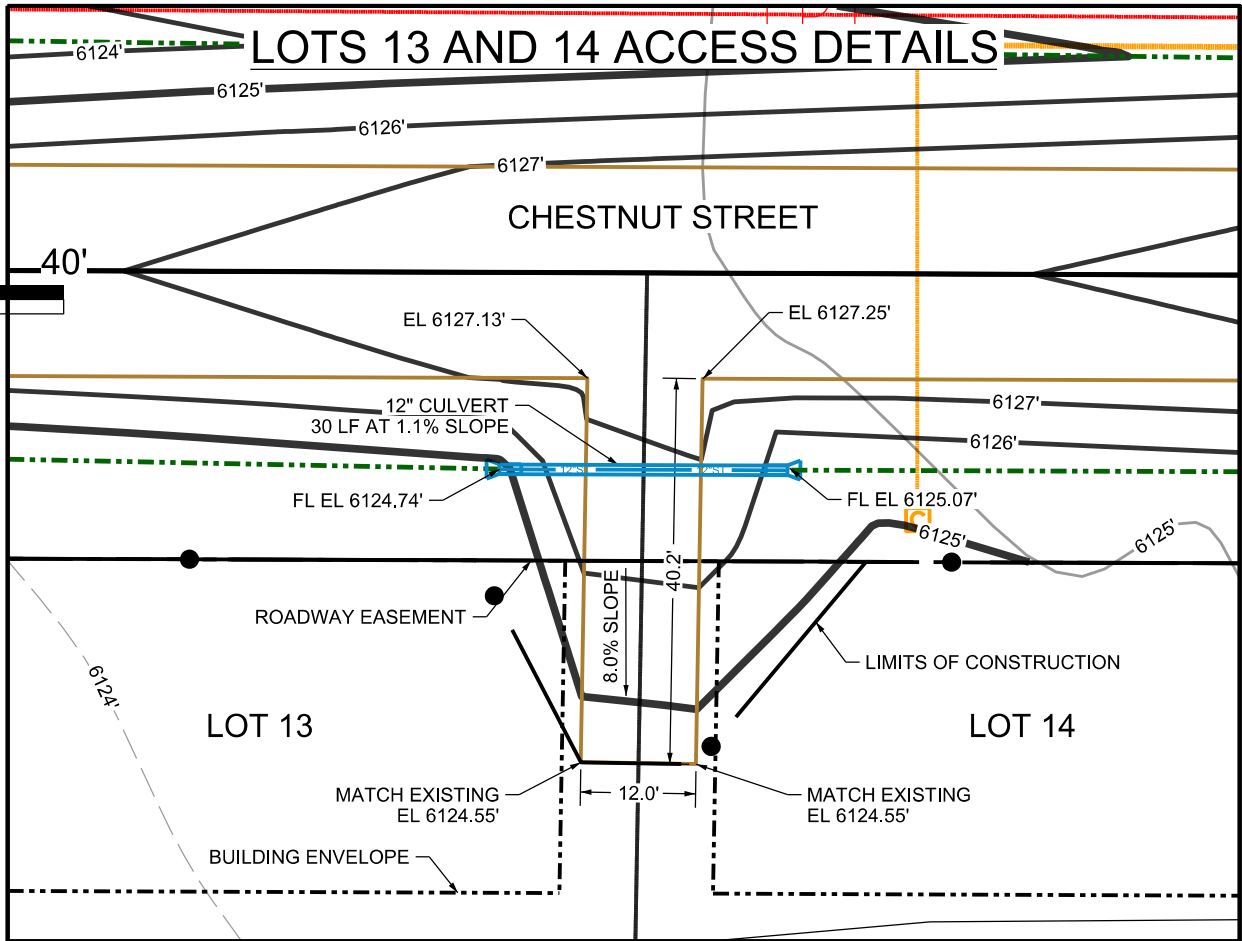
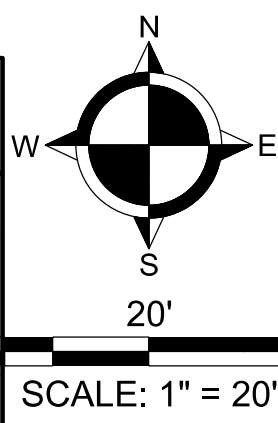
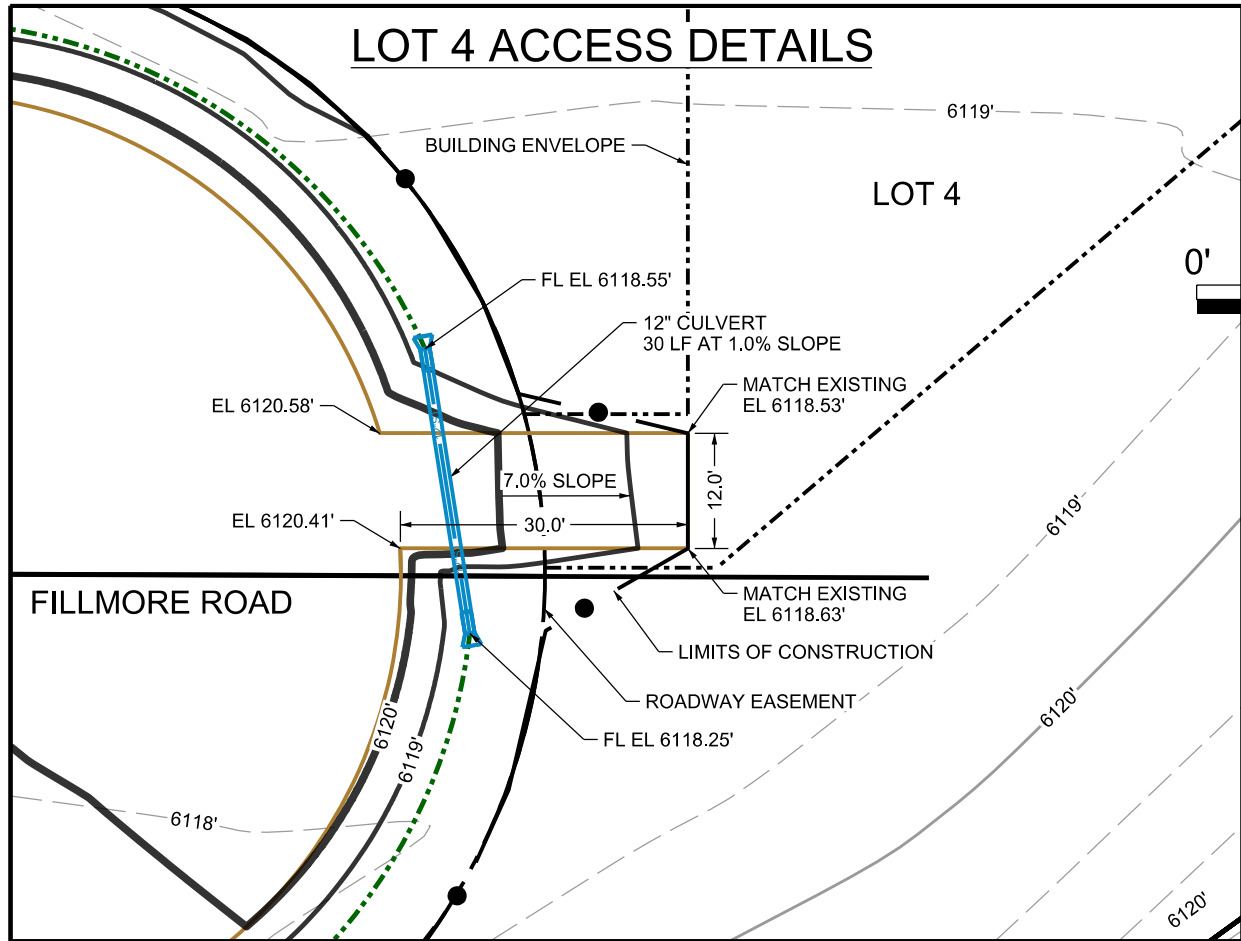
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ACCESS DETAILS

**C3.8**



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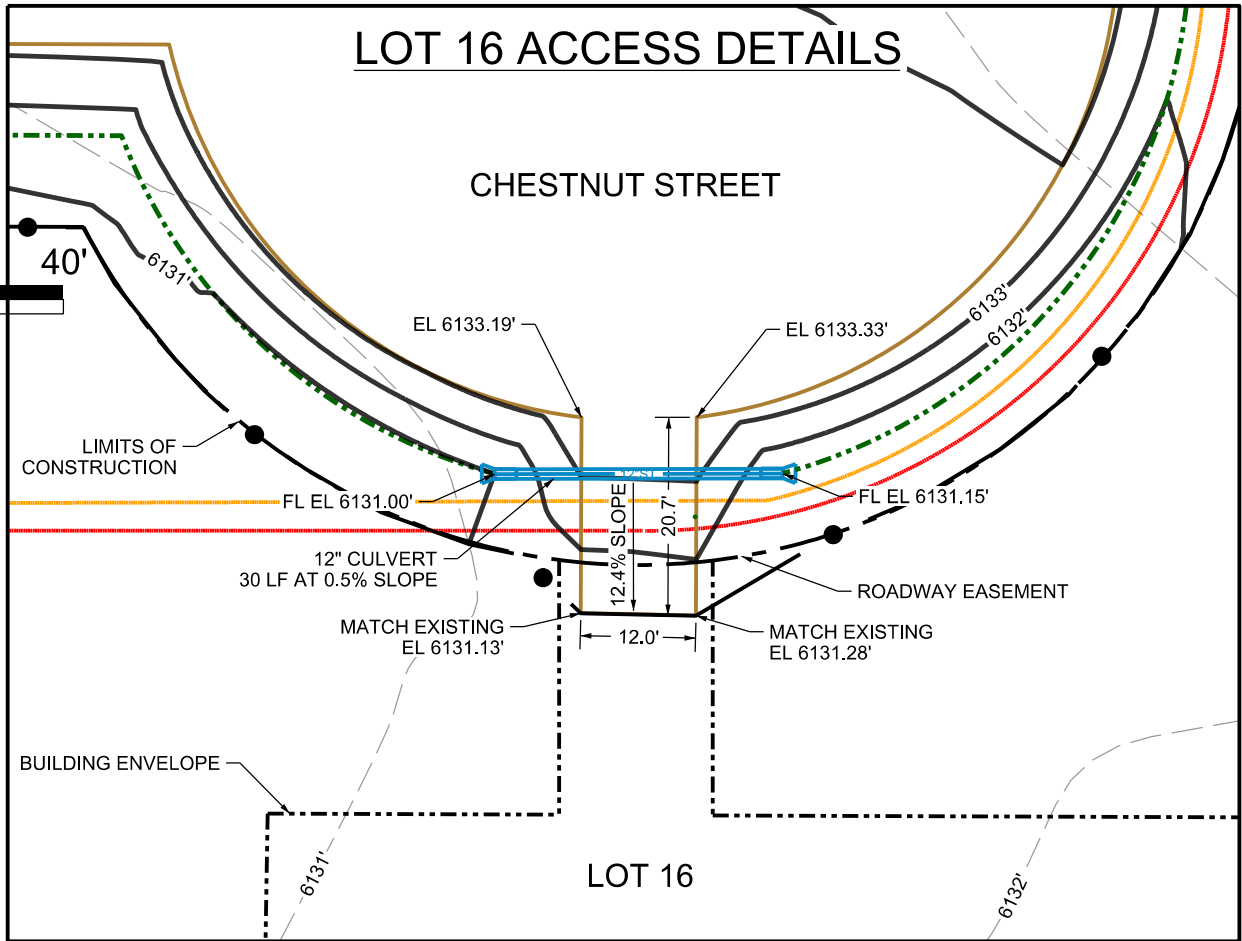
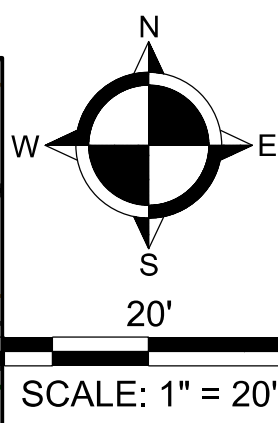
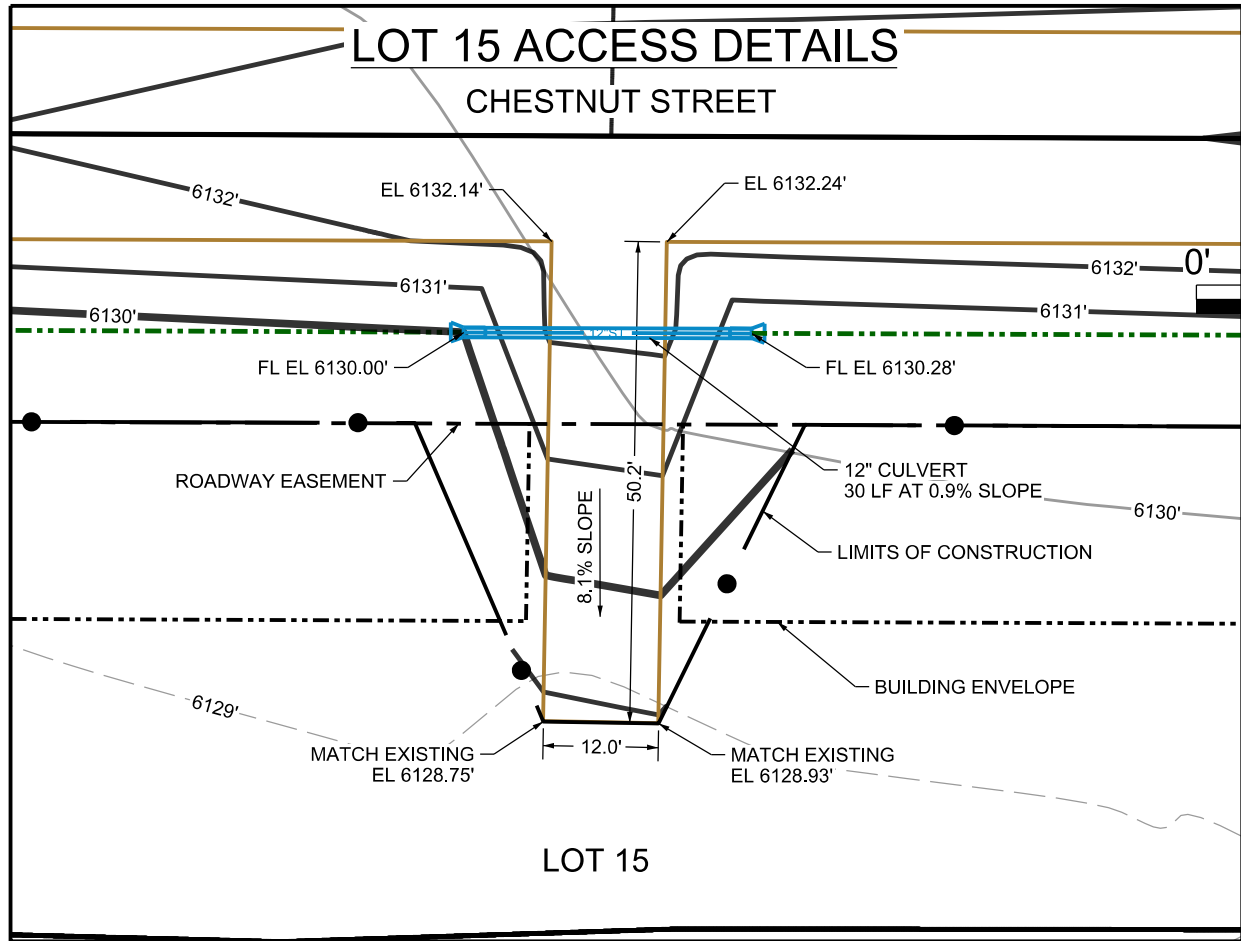
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TETON COUNTY IDAHO

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**C3.9**



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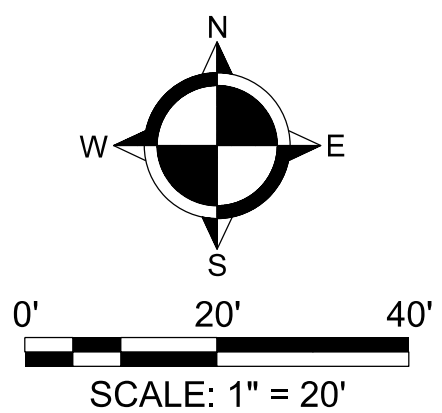
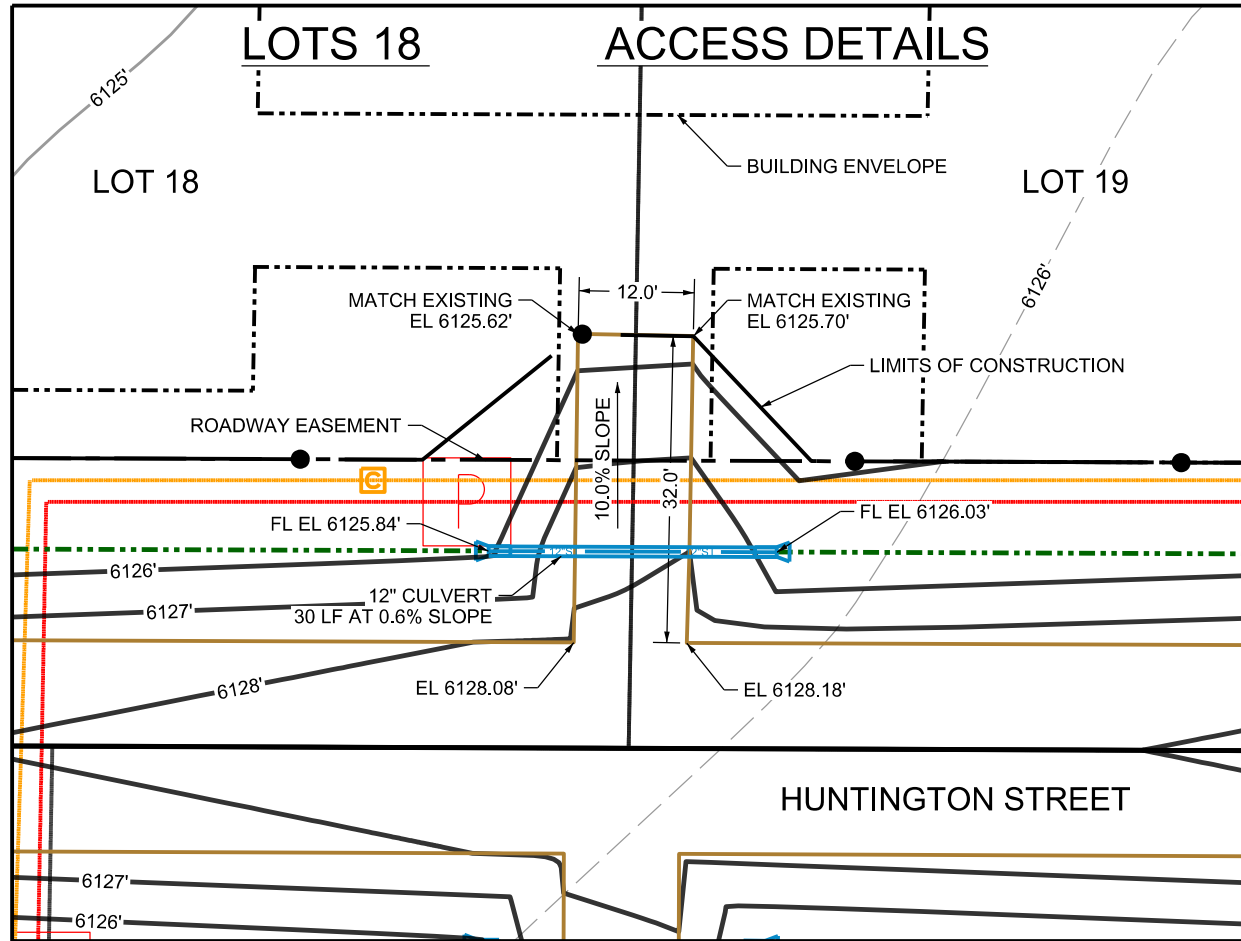
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C3.10



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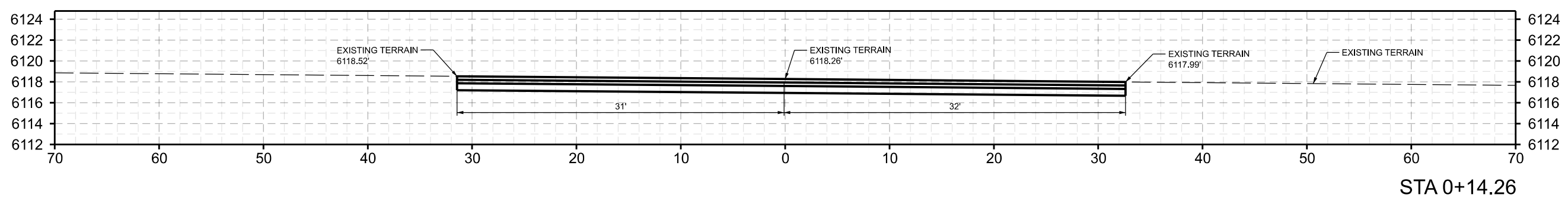
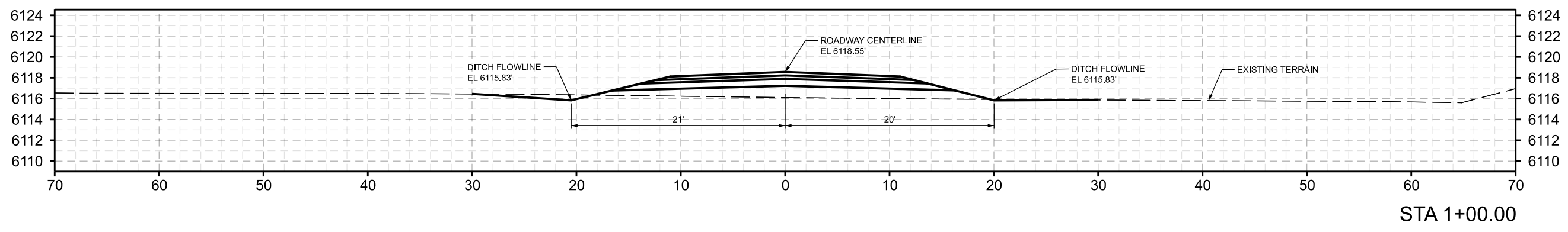
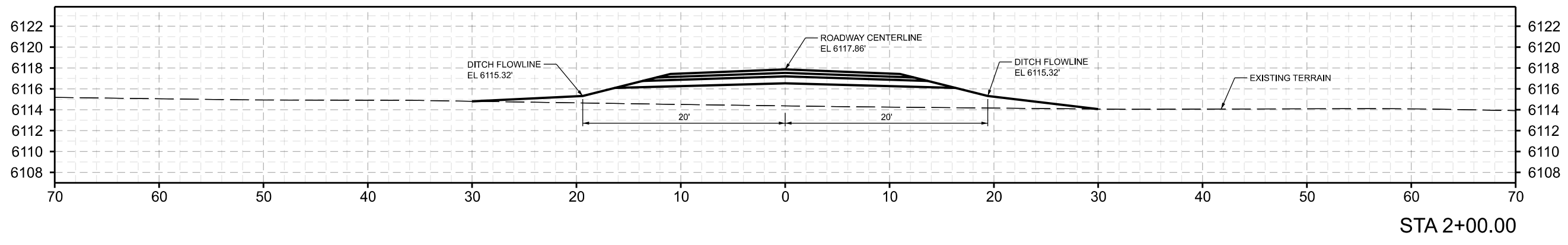
ACCESS DETAILS

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C4.1



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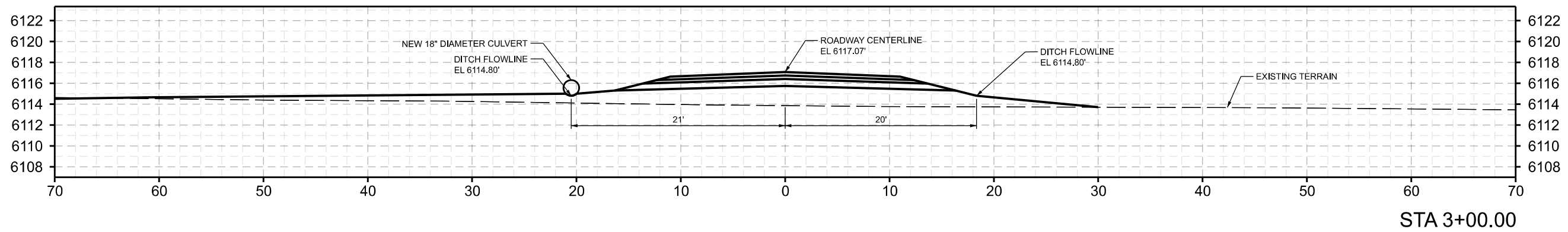
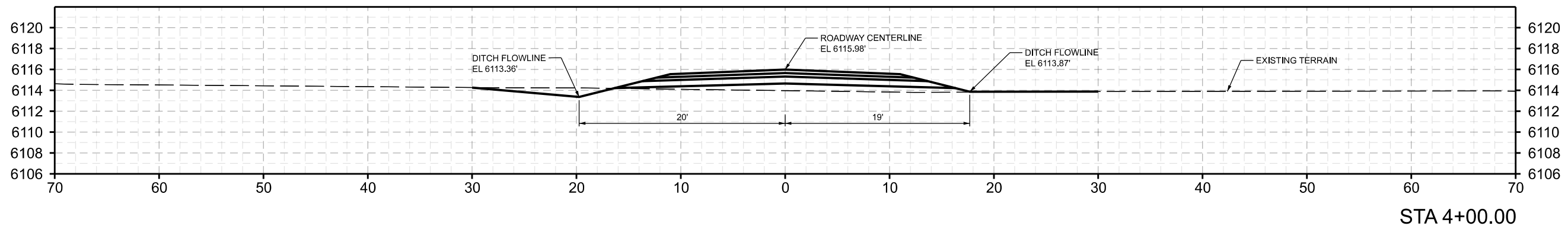
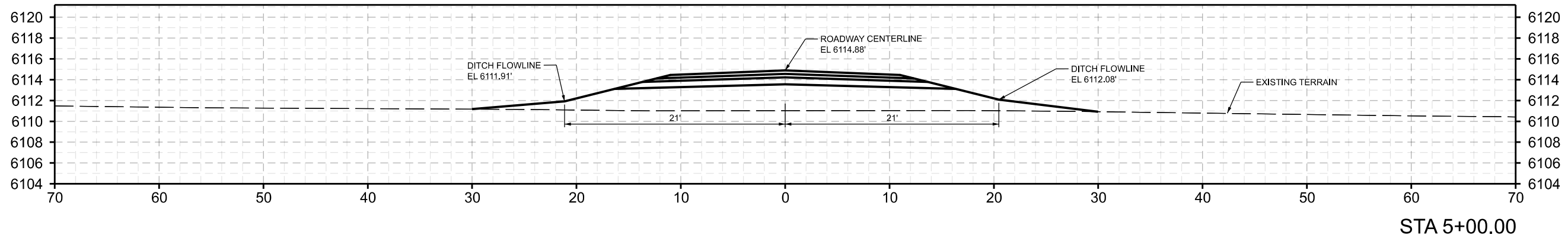
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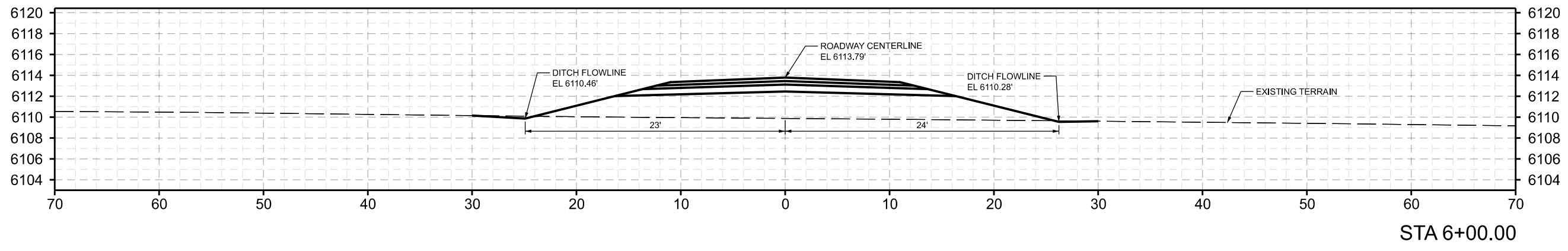
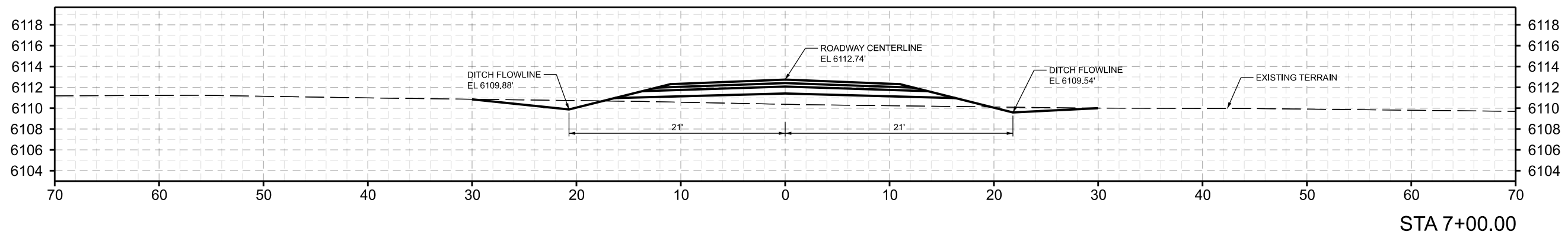
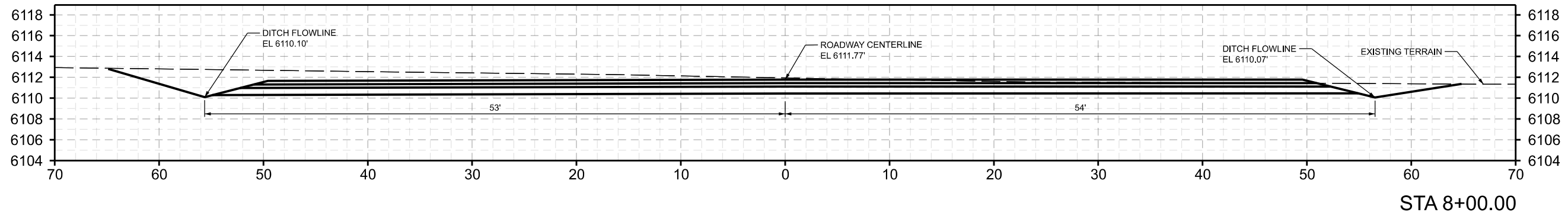
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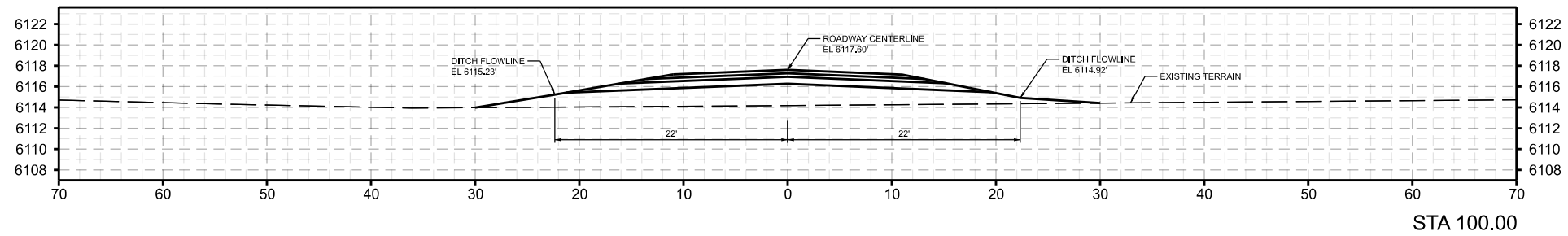
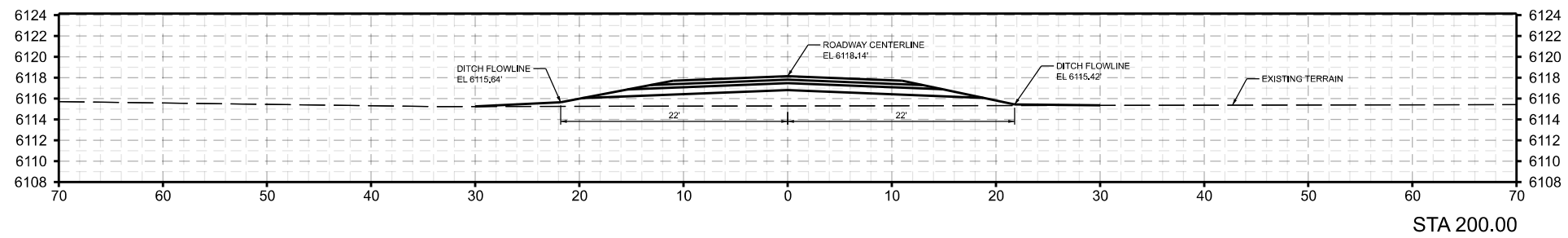
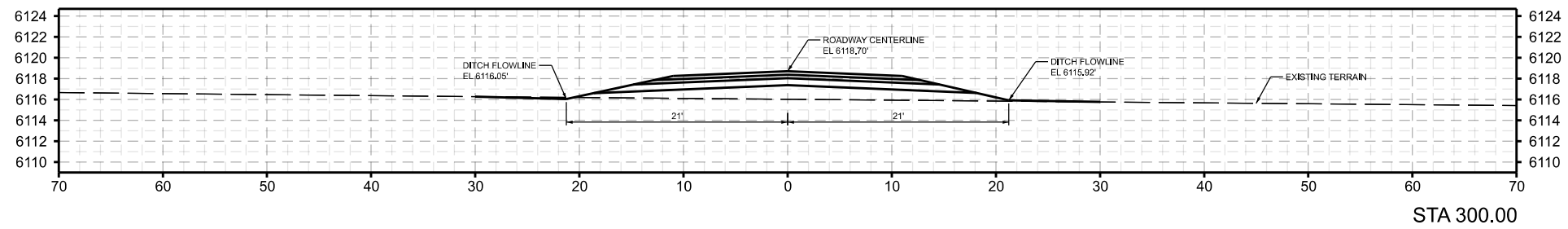
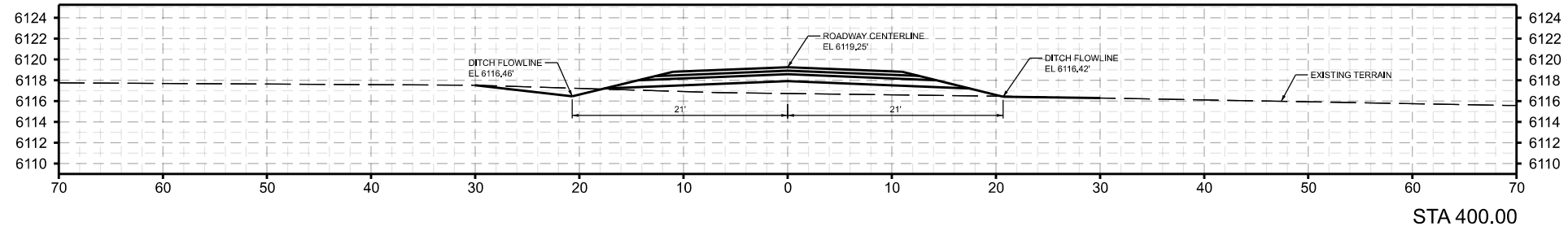
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PRELIMINARY PLAT DEVELOPMENT PLANS

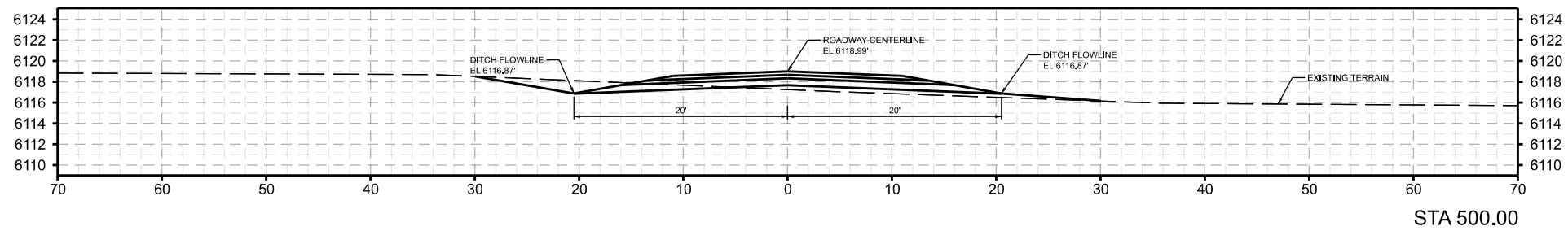
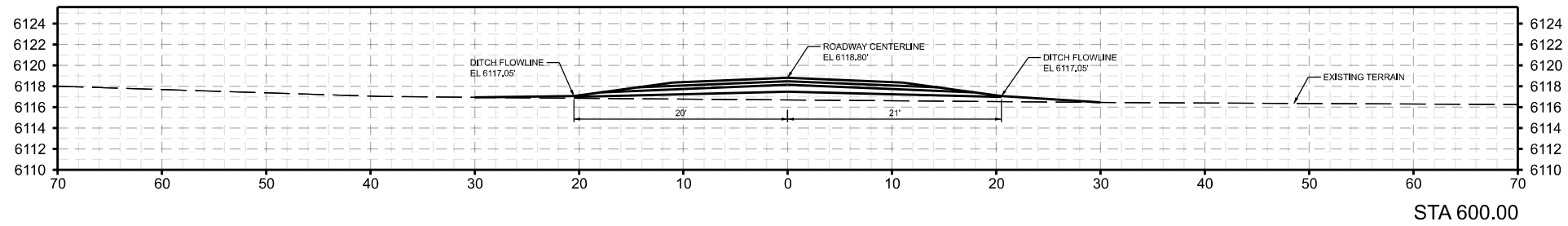
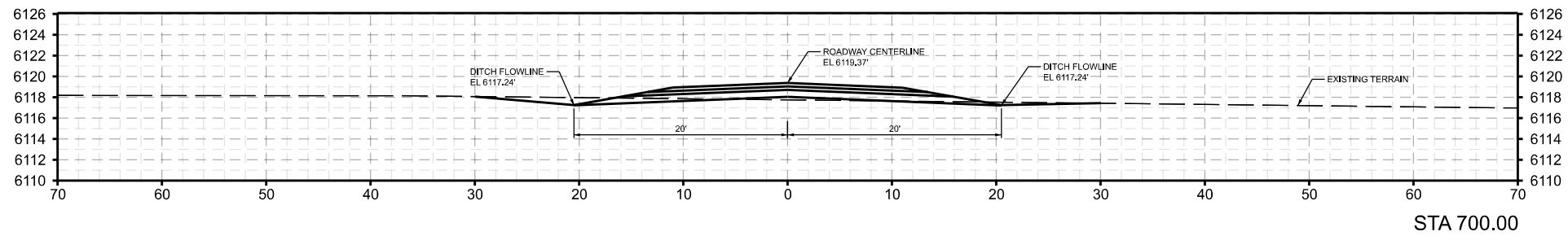
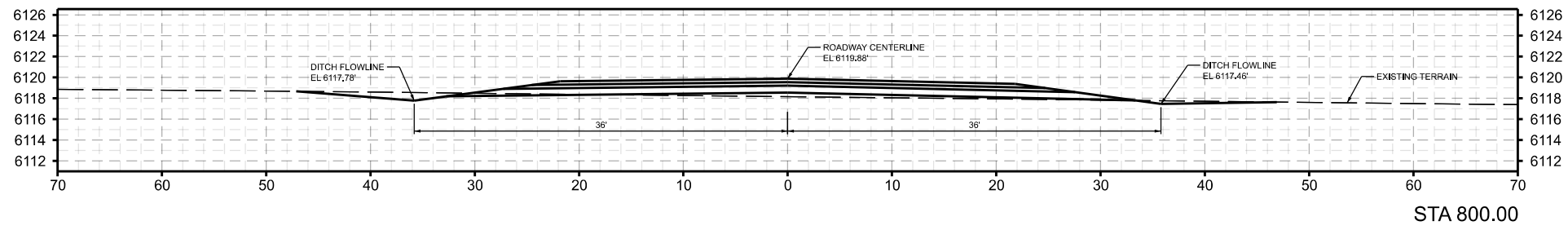
JC RANCHES SUBDIVISION

SECTION 10, T5N, R45E

TETON COUNTY IDAHO

FILLMORE ROAD  
CROSS  
SECTIONS

C4.4



DATE	DRAWING SET TITLE
AUGUST 2023	PRELIMINARY PLAT
FEB 2024	UPDATED PRELIMINARY
JUNE 21, 2024	PRELIMINARY CANAL CROSS
DRAWN BY: BN/EL/CD	
CHECKED BY: AL	JOB #: 21109.ID

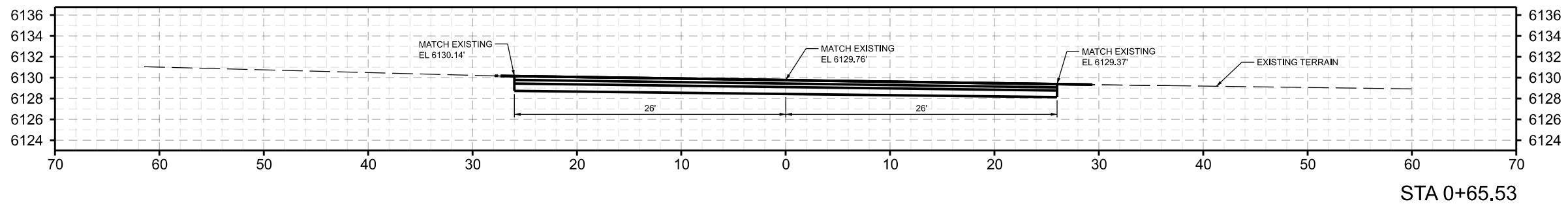
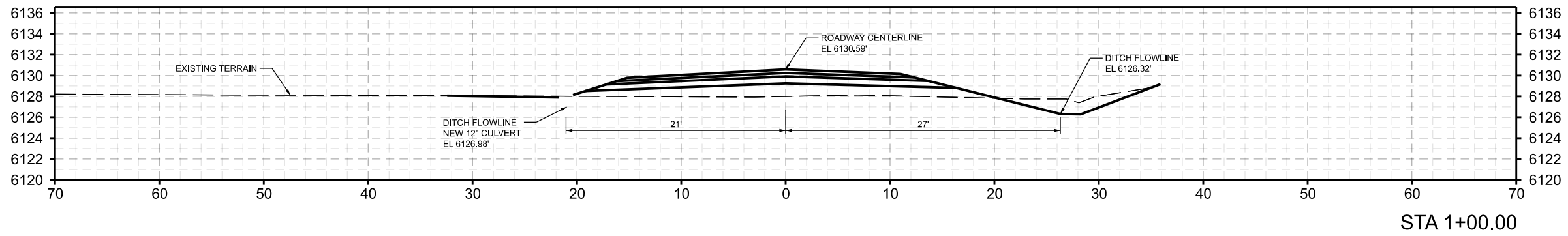
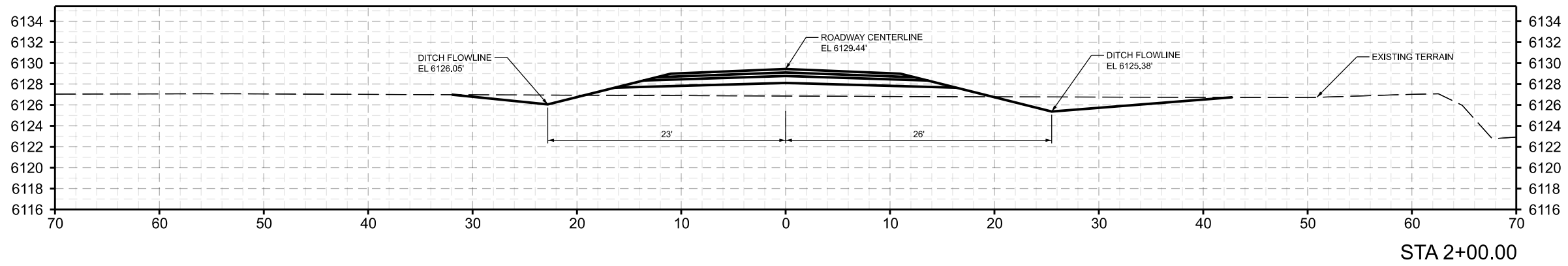


PRELIMINARY PLAT DEVELOPMENT PLANS

JC RANCHES SUBDIVISION  
SECTION 10, T5N, R45E  
TETON COUNTY IDAHO

FILLMORE ROAD  
CROSS  
SECTIONS

C4.5



DATE	DRAWING SET TITLE
AUGUST 2023	PRELIMINARY PLAT
FEB 2024	UPDATED PRELIMINARY
JUNE 21, 2024	PRELIM W/CANAL CROSS
DRAWN BY: BN/EL/CD	CHECKED BY: AL
	JOB #: 21109.ID

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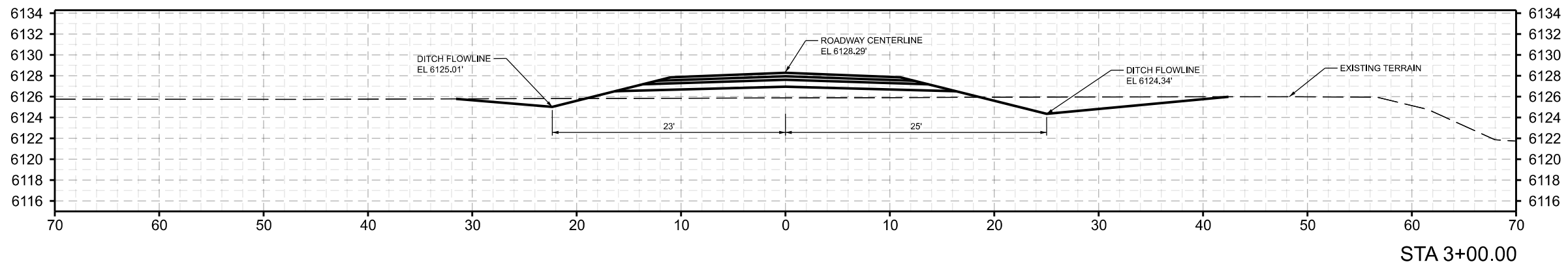
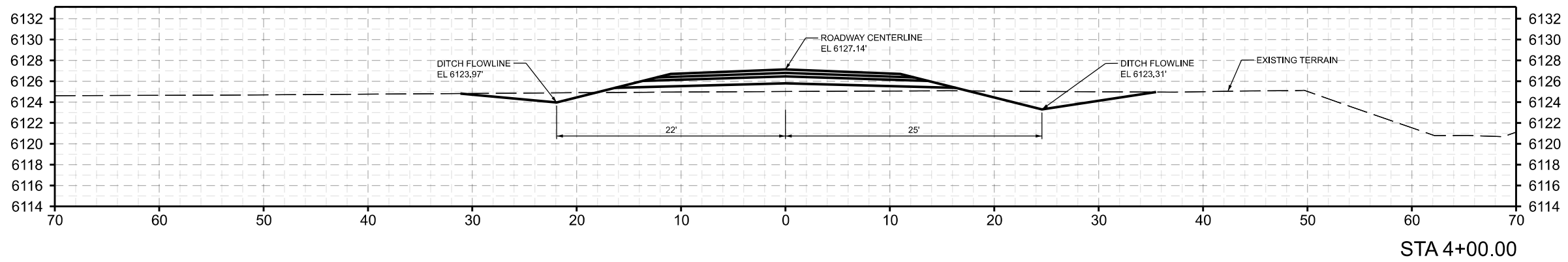
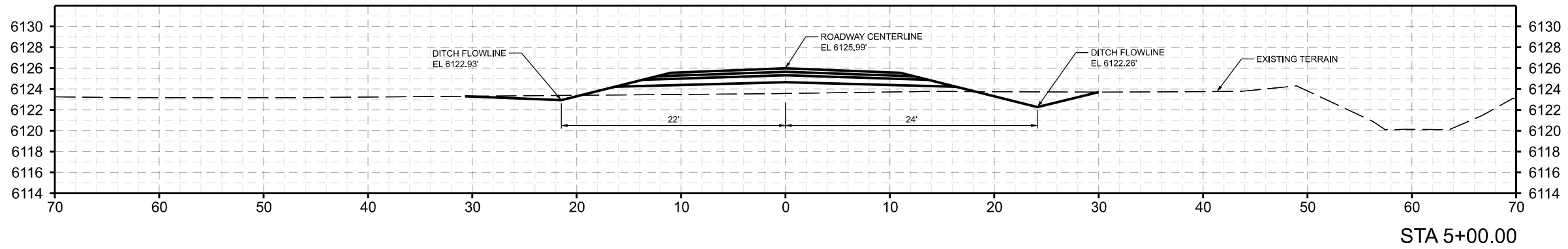
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PRELIMINARY PLAT DEVELOPMENT PLANS  
JC RANCHES SUBDIVISION  
SECTION 10, T5N, R45E  
TETON COUNTY IDAHO

HUNTINGTON  
LOOP CROSS  
SECTIONS

C4.6





DATE	DRAWING SET TITLE
AUGUST 2023	PRELIMINARY PLAT
FEB 2024	UPDATED PRELIMINARY
JUNE 21, 2024	PRELIM W/CANAL CROSS
DRAWN BY: BN/EL/CD	
CHECKED BY: AL	JOB #: 21109.ID

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NATURAL RESOURCE SERVICES

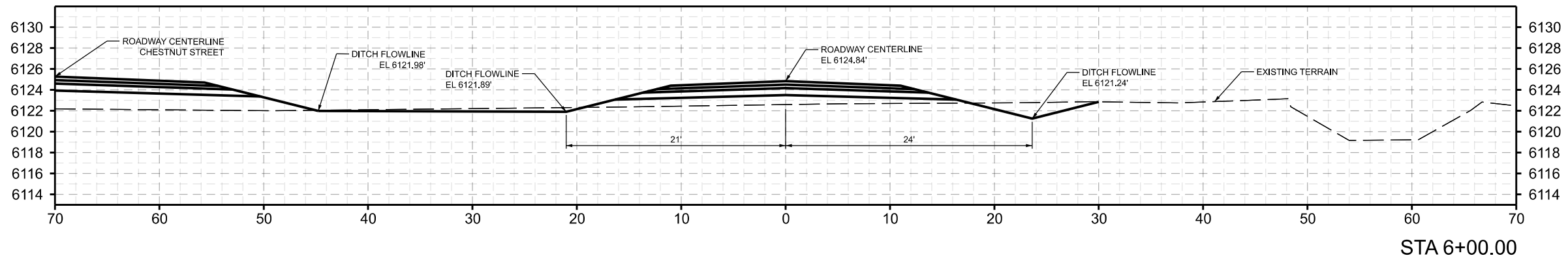
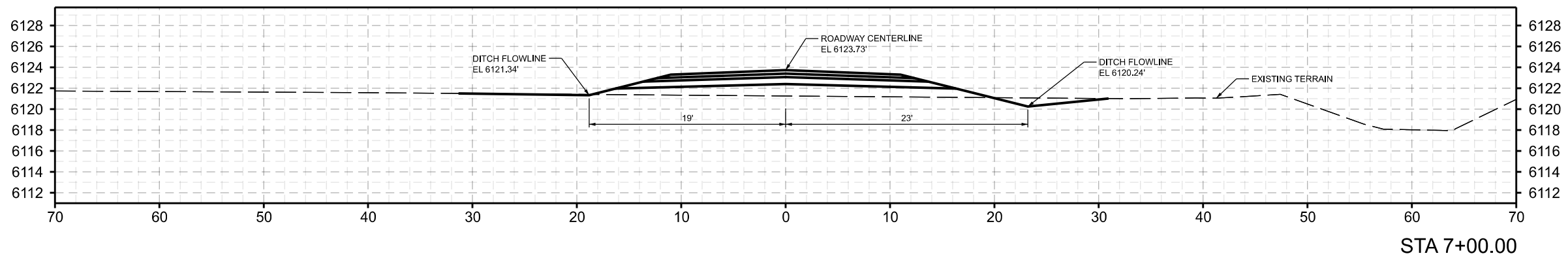
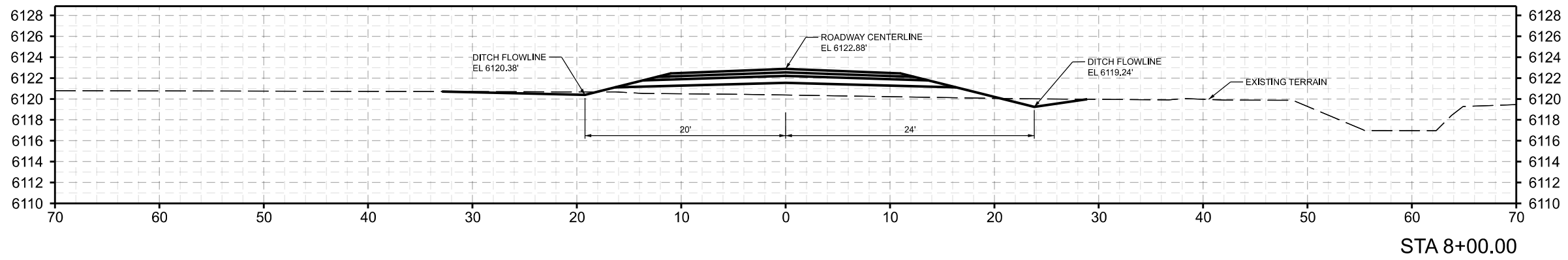
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PRELIMINARY PLAT DEVELOPMENT PLANS

JC RANCHES SUBDIVISION  
SECTION 10, T5N, R45E  
TETON COUNTY IDAHO

HUNTINGTON  
LOOP CROSS  
SECTIONS

C4.7



DATE	DRAWING SET TITLE
AUGUST 2023	PRELIMINARY PLAT
FEB 2024	UPDATED PRELIMINARY
JUNE 21, 2024	PRELIM W/CANAL CROSS
DRAWN BY: BNIEUCD	CHECKED BY: AL
	JOB #: 21109.ID

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NATURAL RESOURCE SERVICES

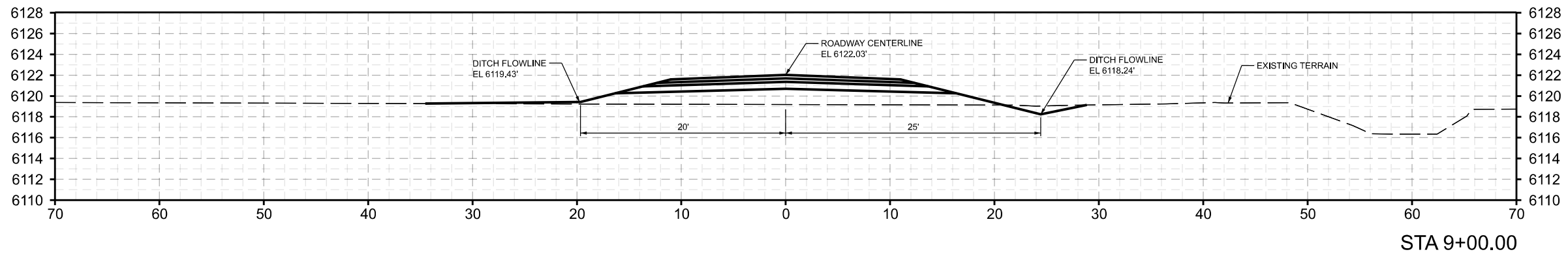
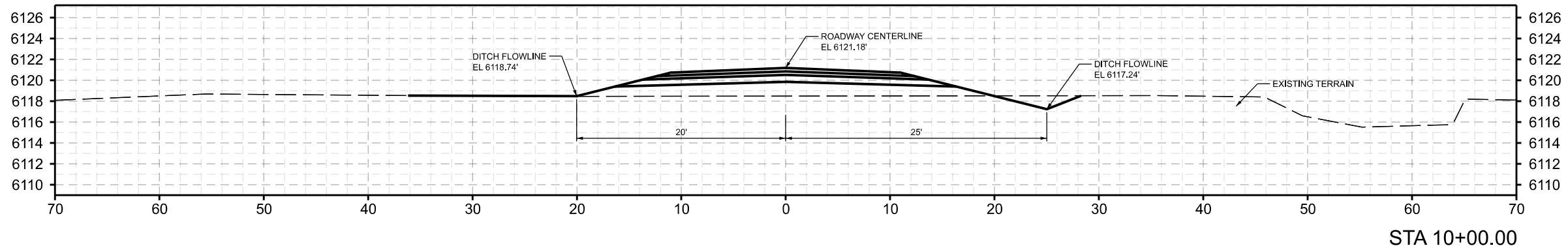
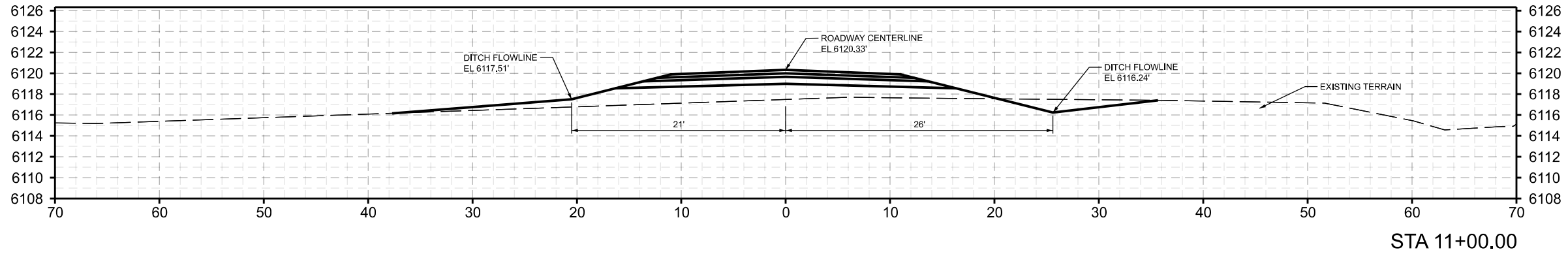
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PRELIMINARY PLAT DEVELOPMENT PLANS

JC RANCHES SUBDIVISION  
SECTION 10, T5N, R45E  
TETON COUNTY IDAHO

HUNTINGTON  
LOOP CROSS  
SECTIONS

C4.8



DRAWING SET TITLE	PRELIMINARY PLAT
DATE	AUGUST 2023
	FEB 2024
	JUNE 21, 2024
	PRELIM W/CANAL CROSS
DRAWN BY:	BNIEL/CD
CHECKED BY:	AL
JOB #:	21109.ID

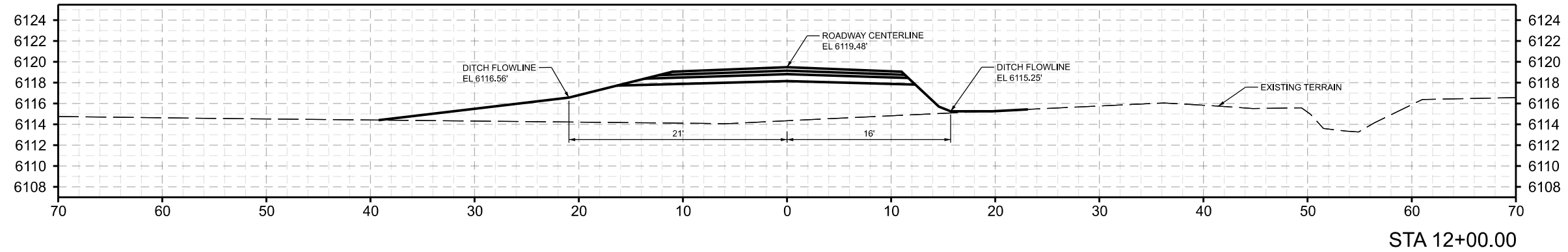
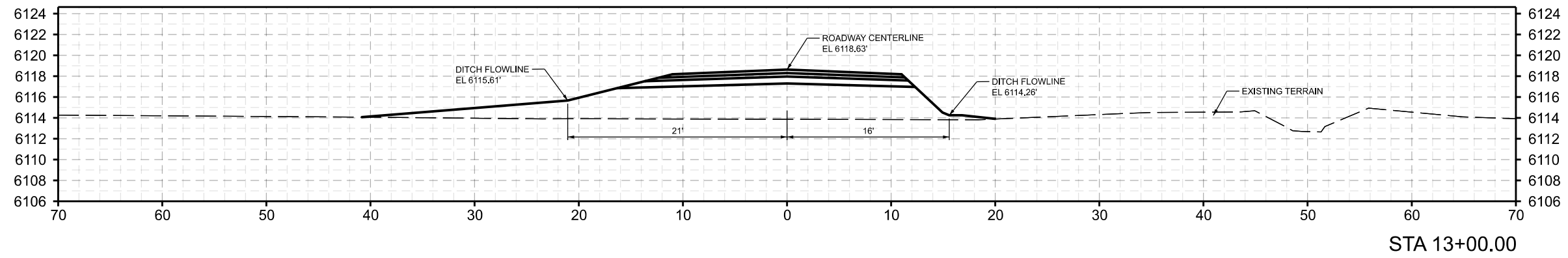
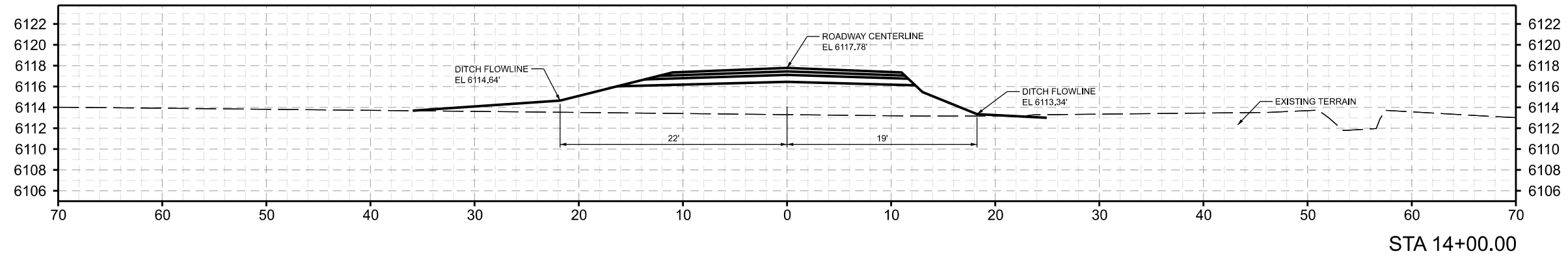
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JC RANCHES SUBDIVISION  
SECTION 10, T5N, R45E  
TETON COUNTY IDAHO

HUNTINGTON  
LOOP CROSS  
SECTIONS

C4.9



DATE	DRAWING SET TITLE
AUGUST 2023	PRELIMINARY PLAT
FEB 2024	UPDATED PRELIMINARY
JUNE 21, 2024	PRELIM W/CANAL CROSS
DRAWN BY: BN/EL/CD	JOB #: 21109.ID
CHECKED BY: AL	

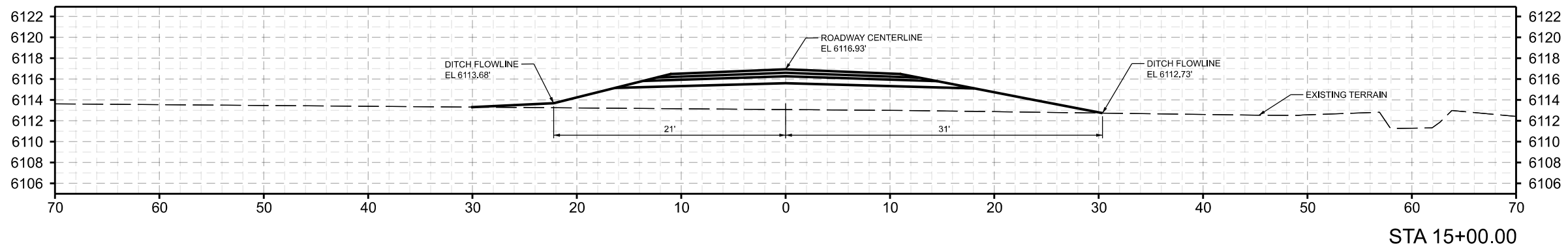
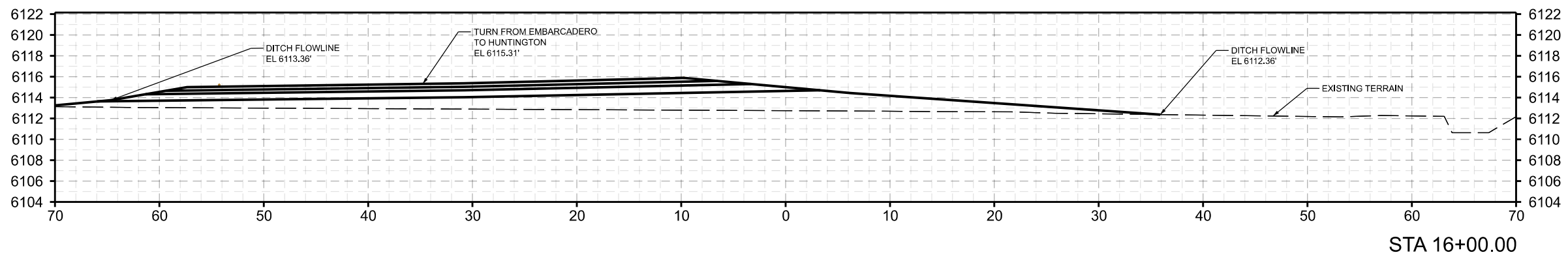
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JC RANCHES SUBDIVISION  
SECTION 10, T5N, R45E  
TETON COUNTY IDAHO

HUNTINGTON  
LOOP CROSS  
SECTIONS

C4.10



DATE	DRAWING SET TITLE
AUGUST 2023	PRELIMINARY PLAT
FEB 2024	UPDATED PRELIMINARY
JUNE 21, 2024	PRELIMINARY CANAL CROSS
DRAWN BY: BNI/UCD	
CHECKED BY: AL	JOB #: 21109.ID

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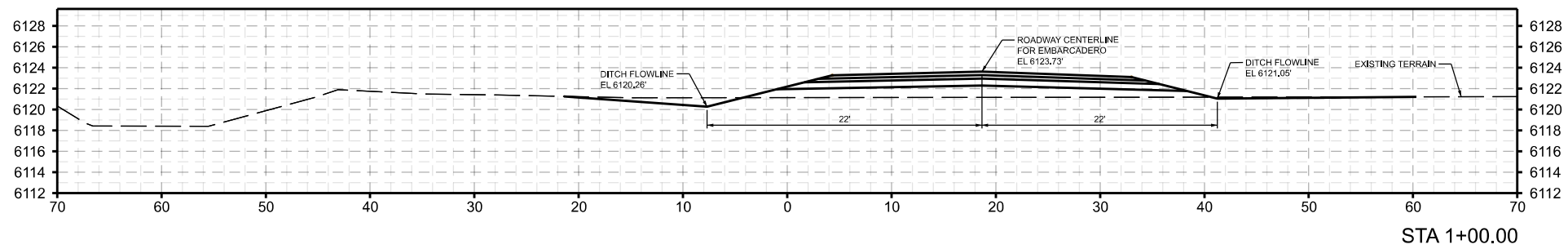
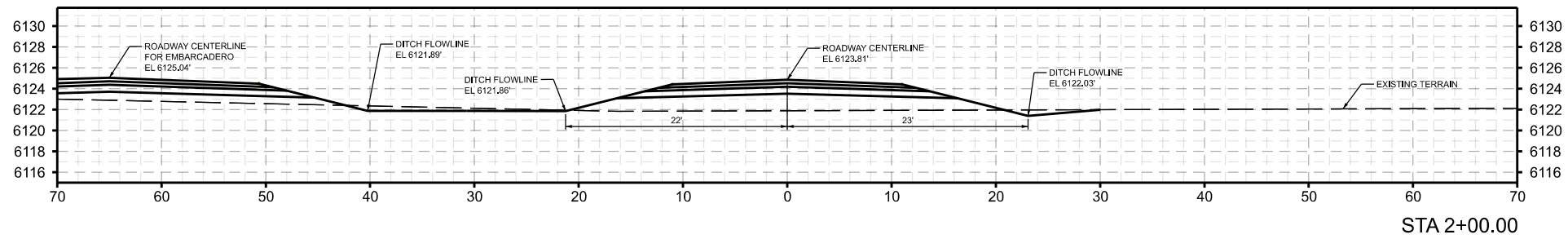
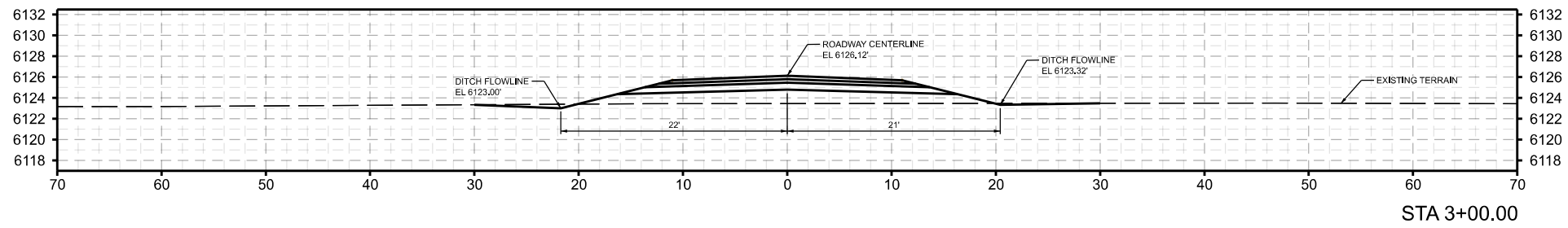
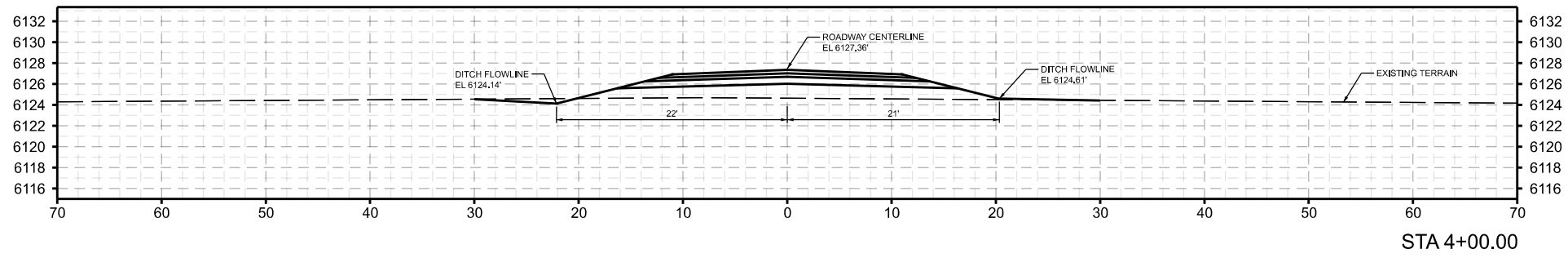
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PRELIMINARY PLAT DEVELOPMENT PLANS  
 JC RANCHES SUBDIVISION  
 SECTION 10, T5N, R45E  
 TETON COUNTY IDAHO

HUNTINGTON  
 LOOP CROSS  
 SECTIONS

C4.11





DRAWING SET TITLE	PRELIMINARY PLAT
DATE	AUGUST 2023
	FEB 2024
	JUNE 21, 2024
	PRELIMINARY
	PRELIMINARY CROSS
DRAWN BY:	BNEUCD
CHECKED BY:	AL
JOB #:	21109.ID

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PRELIMINARY PLAT DEVELOPMENT PLANS

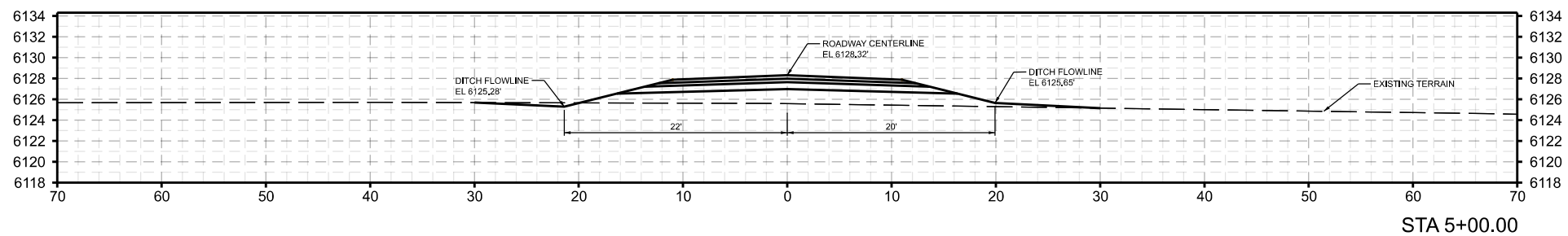
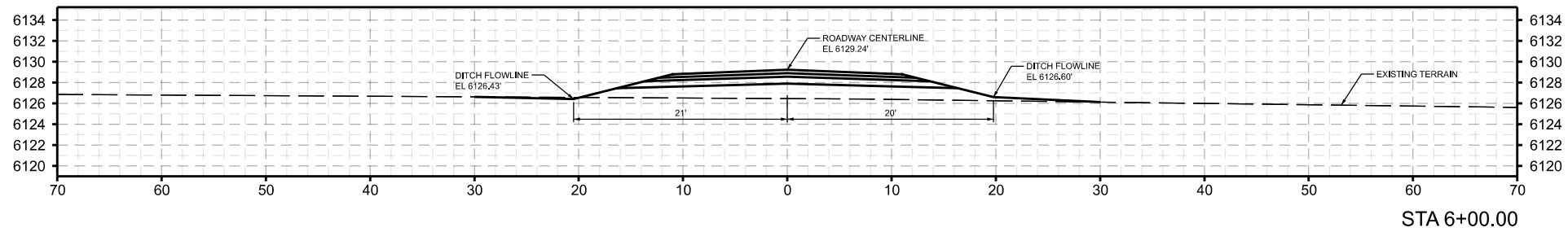
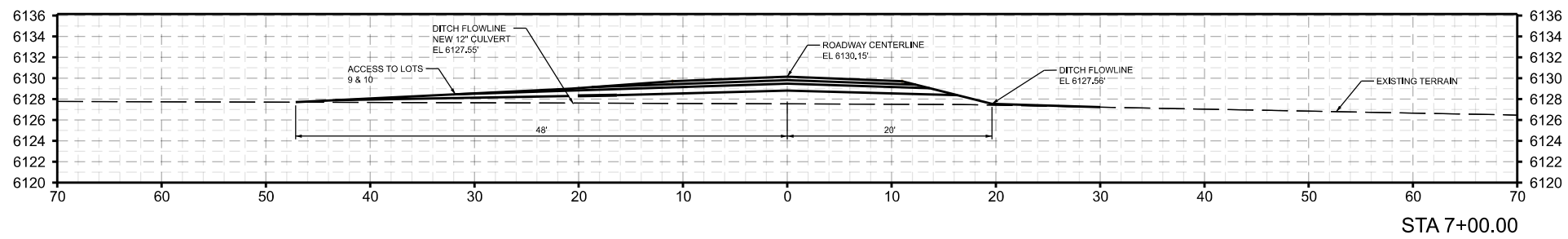
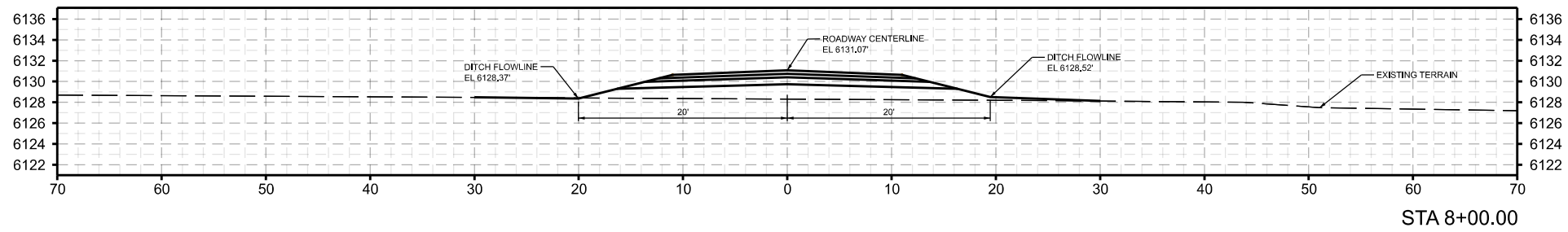
JC RANCHES SUBDIVISION

SECTION 10, T5N, R45E

TETON COUNTY IDAHO

CHESTNUT  
STREET CROSS  
SECTIONS

C4.12



DATE	DRAWING SET TITLE
AUGUST 2023	PRELIMINARY PLAT
FEB 2024	UPDATED PRELIMINARY
JUNE 21, 2024	PRELIMINARY CANAL CROSS
DRAWN BY: BN/EL/CD	
CHECKED BY: AL	JOB #: 21109.ID

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PRELIMINARY PLAT DEVELOPMENT PLANS

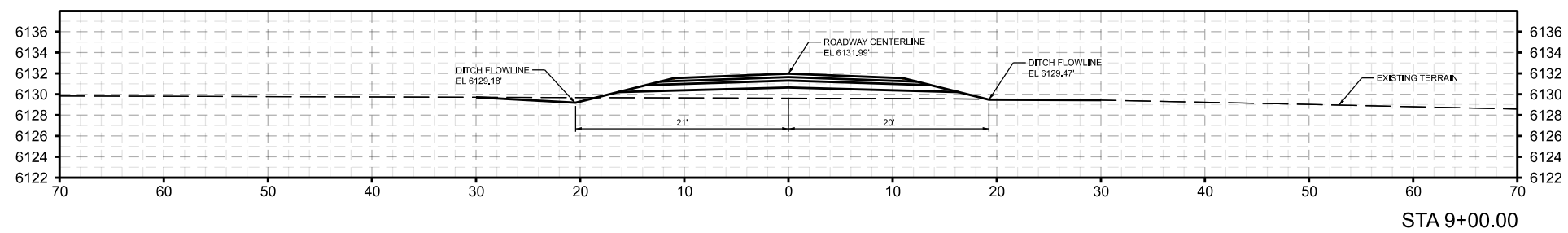
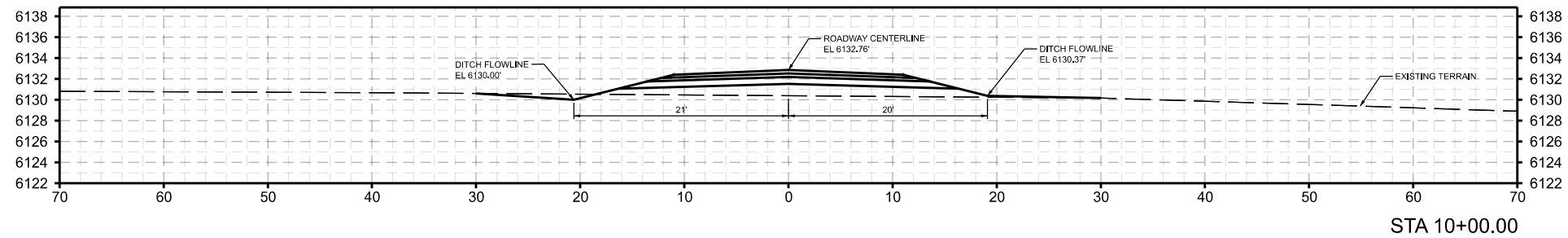
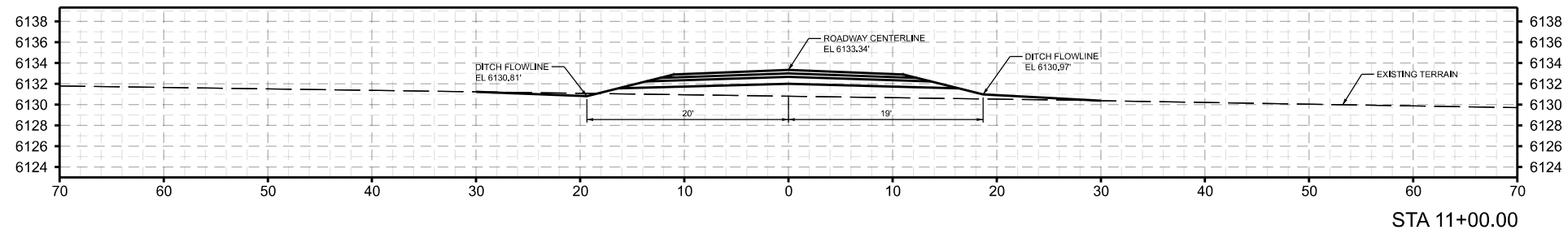
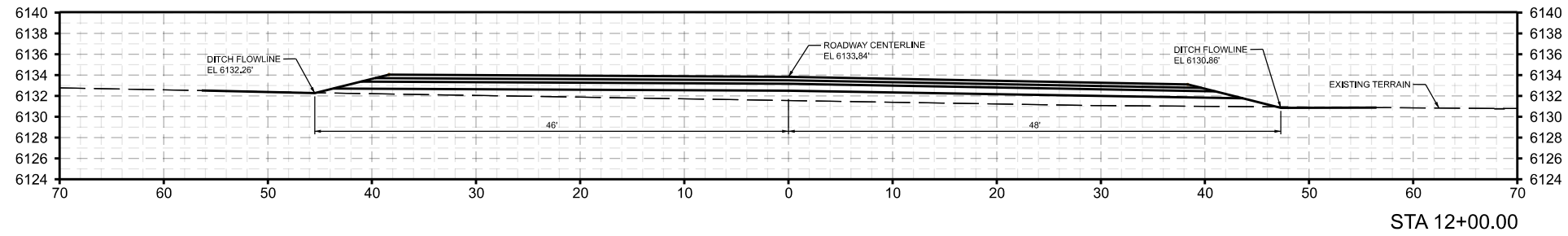
JC RANCHES SUBDIVISION

SECTION 10, T5N, R45E

TETON COUNTY IDAHO

CHESTNUT STREET CROSS SECTIONS

C4.13



DRAWING SET TITLE	PRELIMINARY PLAT
DATE	AUGUST 2023
	FEB 2024
	JUNE 21, 2024
UPDATED PRELIMINARY	PRELIMINARY PLAT
PRELIMINARY CROSS	PRELIMINARY CROSS
DRAWN BY: BN/EL/CD	
CHECKED BY: AL	
JOB #:	21109.ID

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PRELIMINARY PLAT DEVELOPMENT PLANS

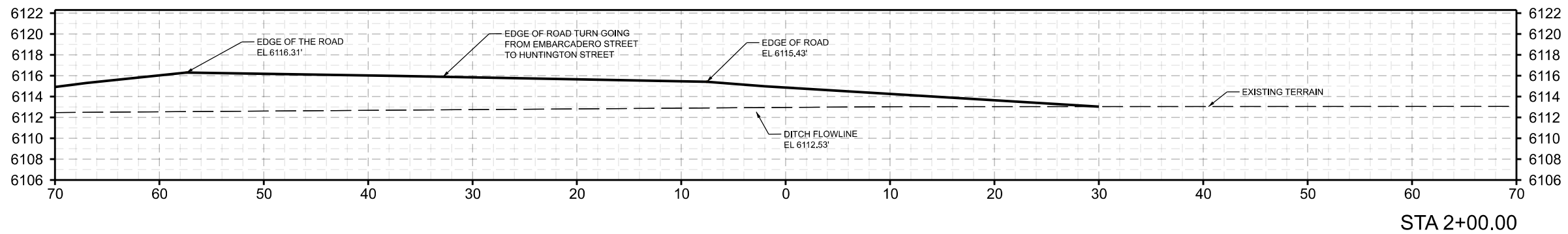
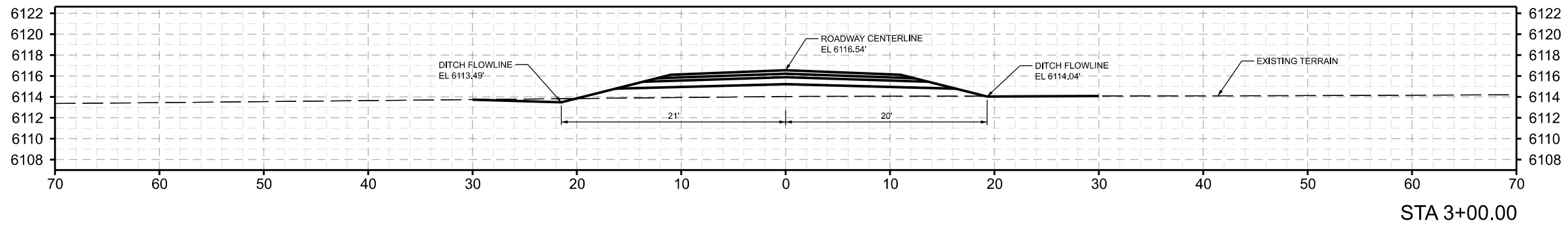
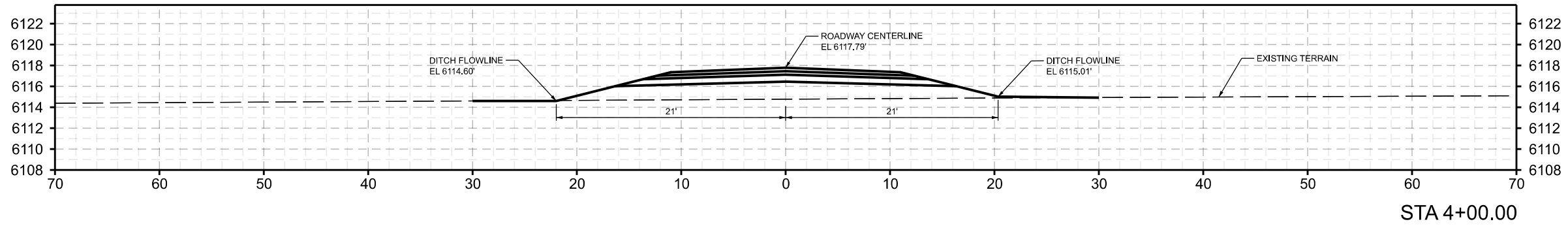
JC RANCHES SUBDIVISION

SECTION 10, T5N, R45E

TETON COUNTY IDAHO

CHESTNUT STREET CROSS SECTIONS

C4.14



DATE	DRAWING SET TITLE
AUGUST 2023	PRELIMINARY PLAT
FEB 2024	UPDATED PRELIMINARY
JUNE 21, 2024	PRELIMINARY CANAL CROSS
DRAWN BY: BN/EL/CD	
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PRELIMINARY PLAT DEVELOPMENT PLANS

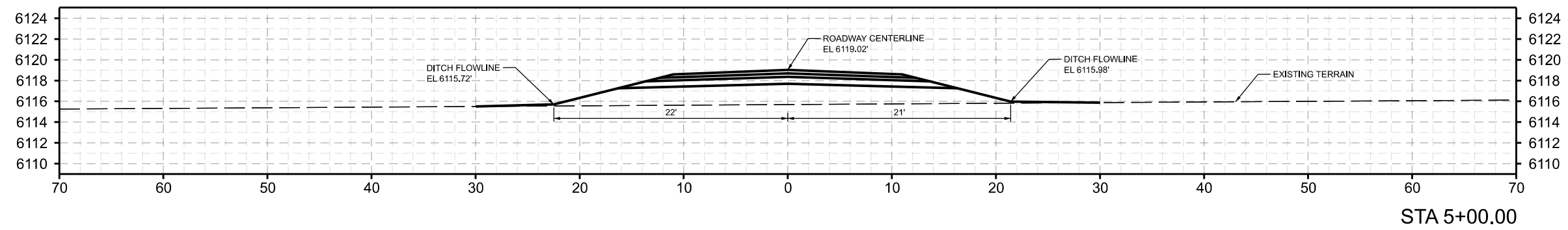
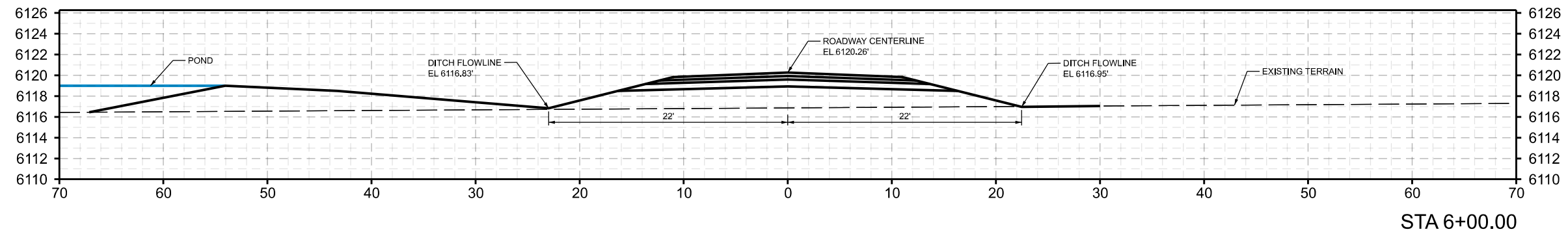
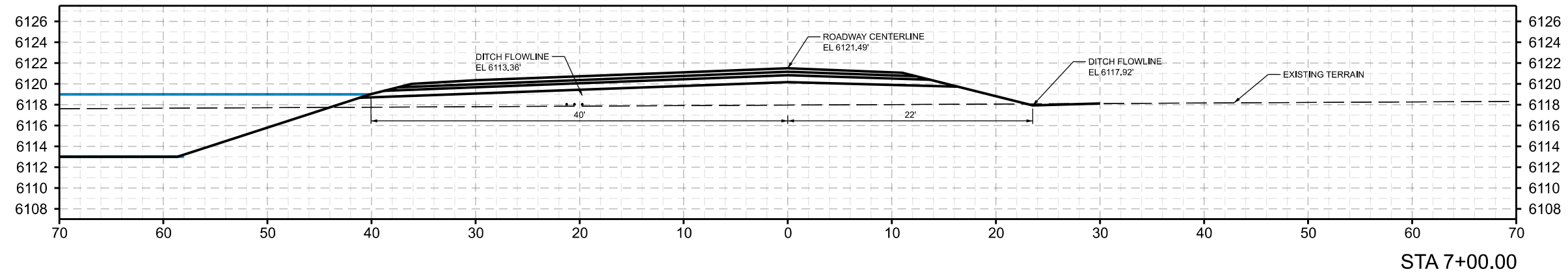
JC RANCHES SUBDIVISION

SECTION 10, T5N, R45E

TETON COUNTY IDAHO

HUNTINGTON  
LOOP CROSS  
SECTIONS

C4.15



DATE	DRAWING SET TITLE
AUGUST 2023	PRELIMINARY PLAT
FEB 2024	UPDATED PRELIMINARY
JUNE 21, 2024	PRELIMINARY CANAL CROSS
DRAWN BY: BNIEUCD	CHECKED BY: AL
	JOB #: 21109.ID

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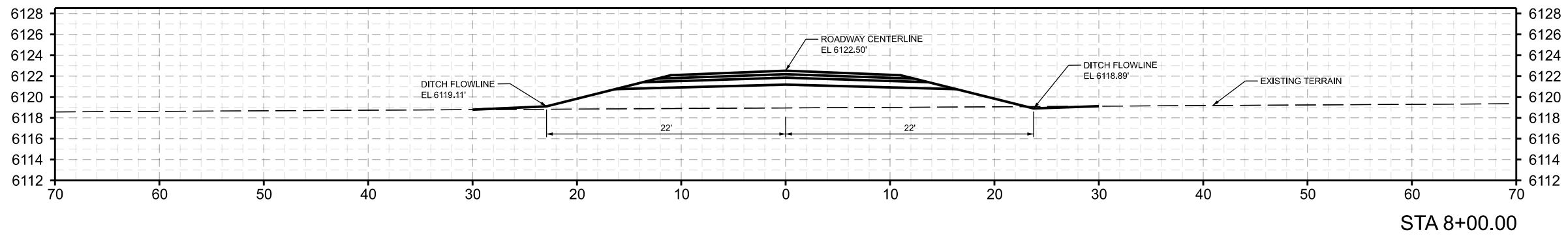
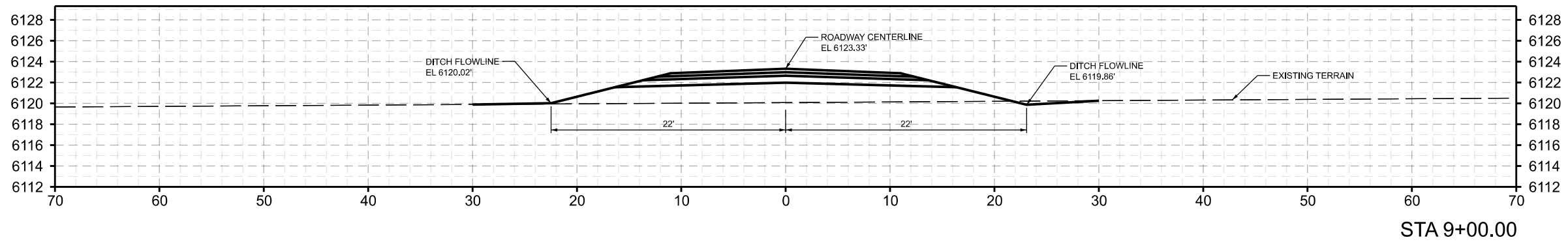
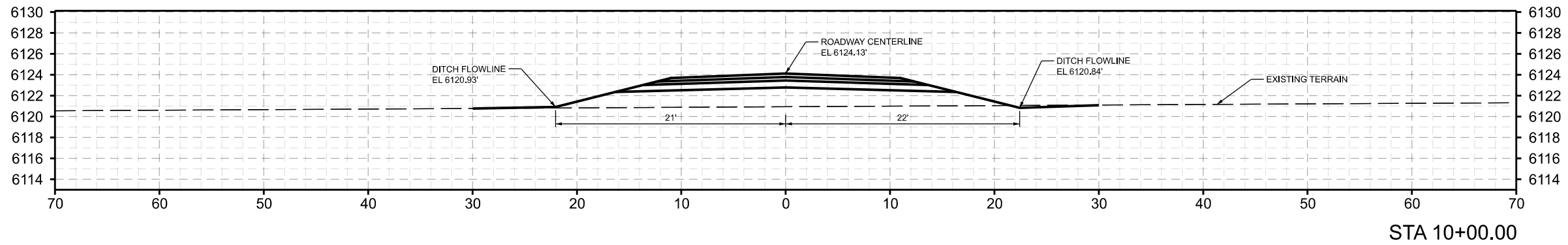
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PRELIMINARY PLAT DEVELOPMENT PLANS  
JC RANCHES SUBDIVISION  
SECTION 10, T5N, R45E  
TETON COUNTY IDAHO

HUNTINGTON  
LOOP CROSS  
SECTIONS

C4.16





DATE	DRAWING SET TITLE
AUGUST 2023	PRELIMINARY PLAT
FEB 2024	UPDATED PRELIMINARY
JUNE 21, 2024	PRELIM W/CANAL CROSS
DRAWN BY: BN/EL/CD	
CHECKED BY: AL	JOB #: 21109.ID

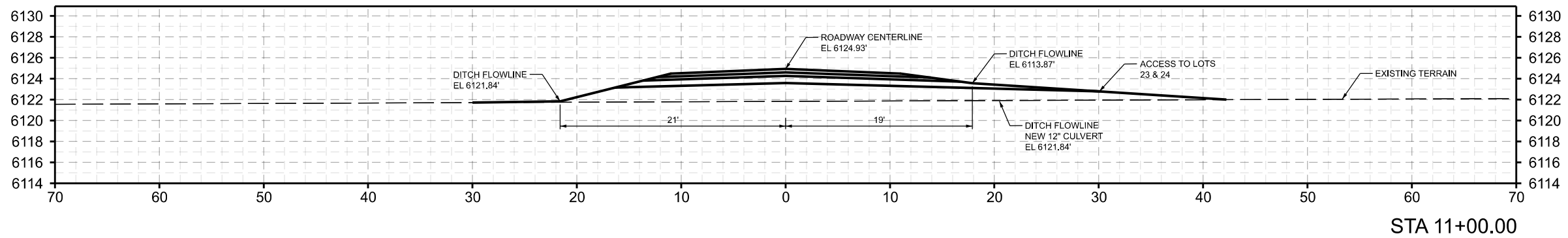
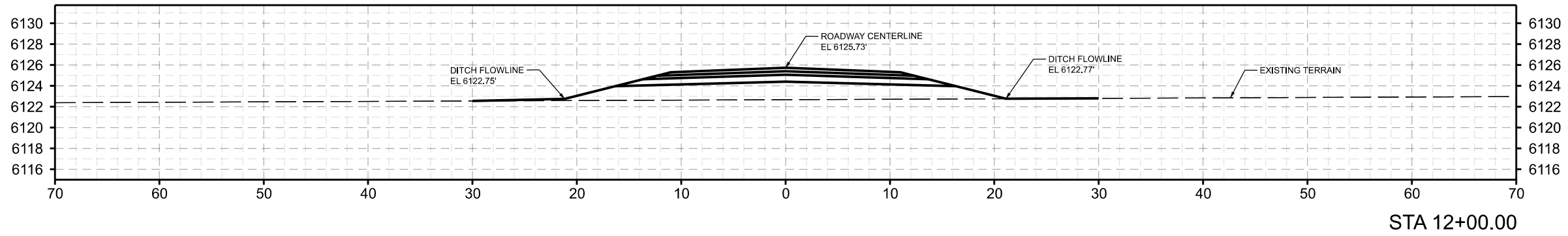
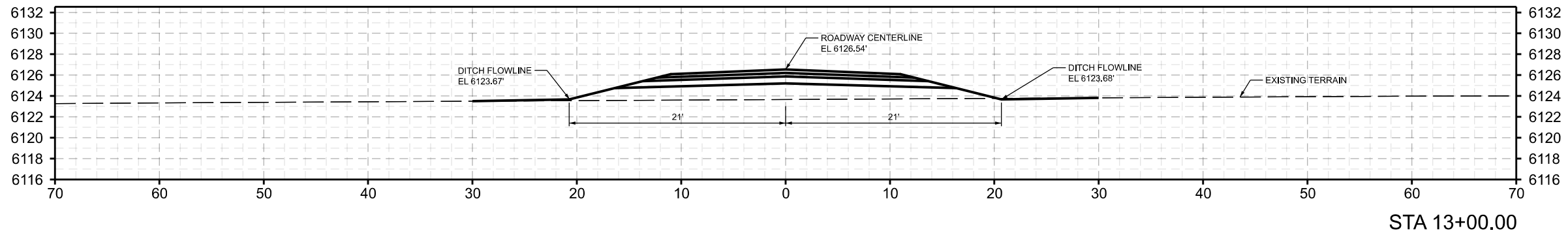
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JC RANCHES SUBDIVISION  
SECTION 10, T5N, R45E  
TETON COUNTY IDAHO

HUNTINGTON  
LOOP CROSS  
SECTIONS

C4.17



DATE	DRAWING SET TITLE
AUGUST 2023	PRELIMINARY PLAT
FEB 2024	UPDATED PRELIMINARY
JUNE 21, 2024	PRELIMINARY CANAL CROSS
DRAWN BY: BNIEUCD	CHECKED BY: AL
	JOB #: 21109.ID

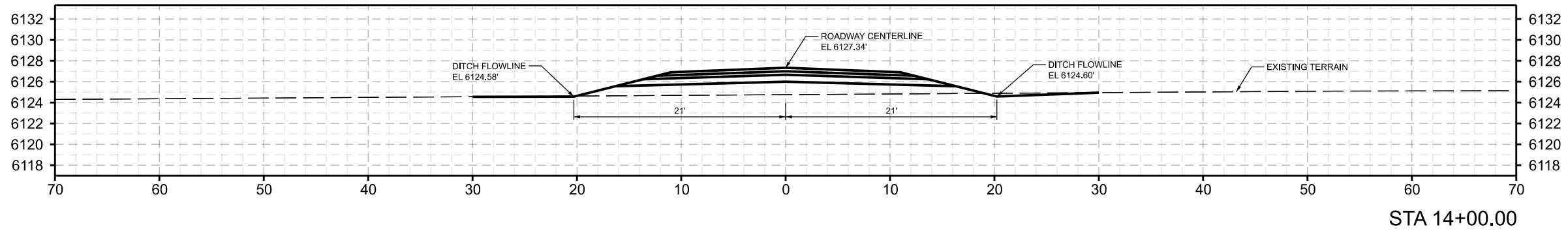
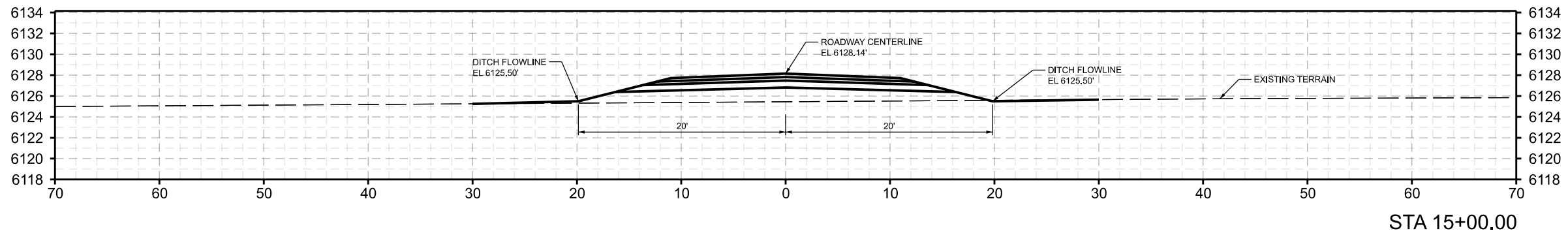
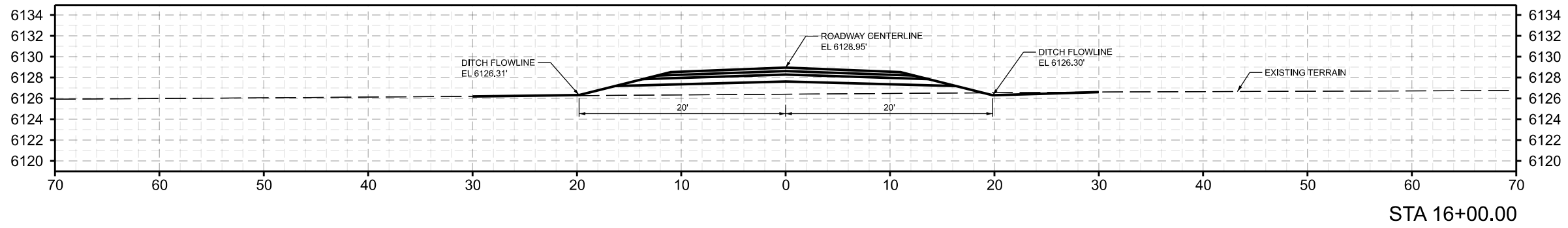
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JC RANCHES SUBDIVISION  
SECTION 10, T5N, R45E  
TETON COUNTY IDAHO

HUNTINGTON  
LOOP CROSS  
SECTIONS

C4.18



DATE	DRAWING SET TITLE
AUGUST 2023	PRELIMINARY PLAT
FEB 2024	UPDATED PRELIMINARY
JUNE 21, 2024	PRELIMINARY CROSS
DRAWN BY: BN/EL/CD	
CHECKED BY: AL	JOB #: 21109.ID

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PRELIMINARY PLAT DEVELOPMENT PLANS

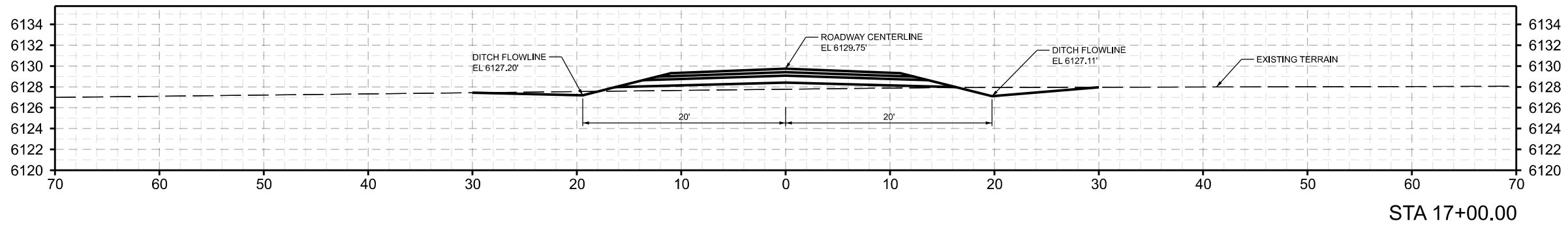
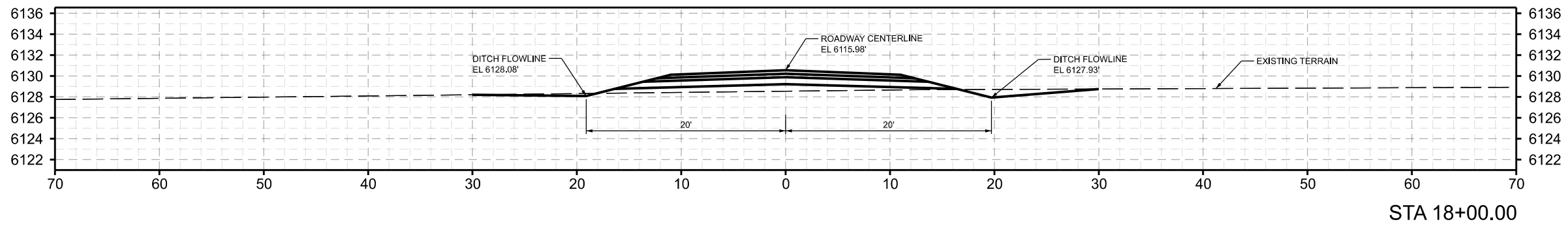
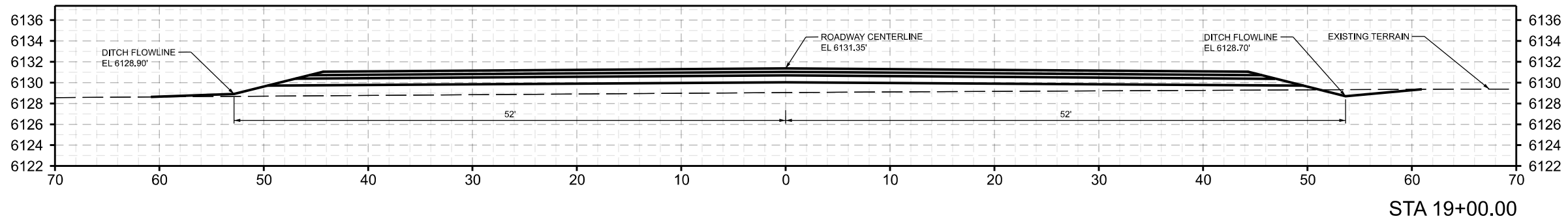
JC RANCHES SUBDIVISION

SECTION 10, T5N, R45E

TETON COUNTY IDAHO

HUNTINGTON  
LOOP CROSS  
SECTIONS

C4.19



DATE	DRAWING SET TITLE
AUGUST 2023	PRELIMINARY PLAT
FEB 2024	UPDATED PRELIMINARY
JUNE 21, 2024	PRELIM W/CANAL CROSS
DRAWN BY: BNEL/CD	
CHECKED BY: AL	JOB #: 21109.ID

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JC RANCHES SUBDIVISION

SECTION 10, T5N, R45E

TETON COUNTY IDAHO

HUNTINGTON  
 LOOP CROSS  
 SECTIONS

C4.20

# PROJECT SUMMARY

## LOCAL BRIDGE CONSULTANT

- NAME = Brad Eberspecher
- EMAIL = Brad.Eberspecher@ContechES.com
- PHONE NUMBER = 406-581-5022

## STRUCTURE DETAILS

- STRUCTURE #89
- SPAN = 27'-0"
- RISE = 6'-3"
- LENGTH = 31.75 FT.
- LOAD = HL-93
- SHELL TYPE = R2
- MIN COVER = 2.3 (ft)
- MAX COVER = 5 (ft)

## FOUNDATIONS

- FOUNDATION TYPE = STRIP W/CHANNELS

## INLET HEADWALL

- INLET HEADWALL TYPE = METAL
- INLET HEADWALL HEIGHT = 10.92 FT.
- INLET HEADWALL WIDTH = 33 FT.
- INLET HEADWALL TRENCH = 2 FT.

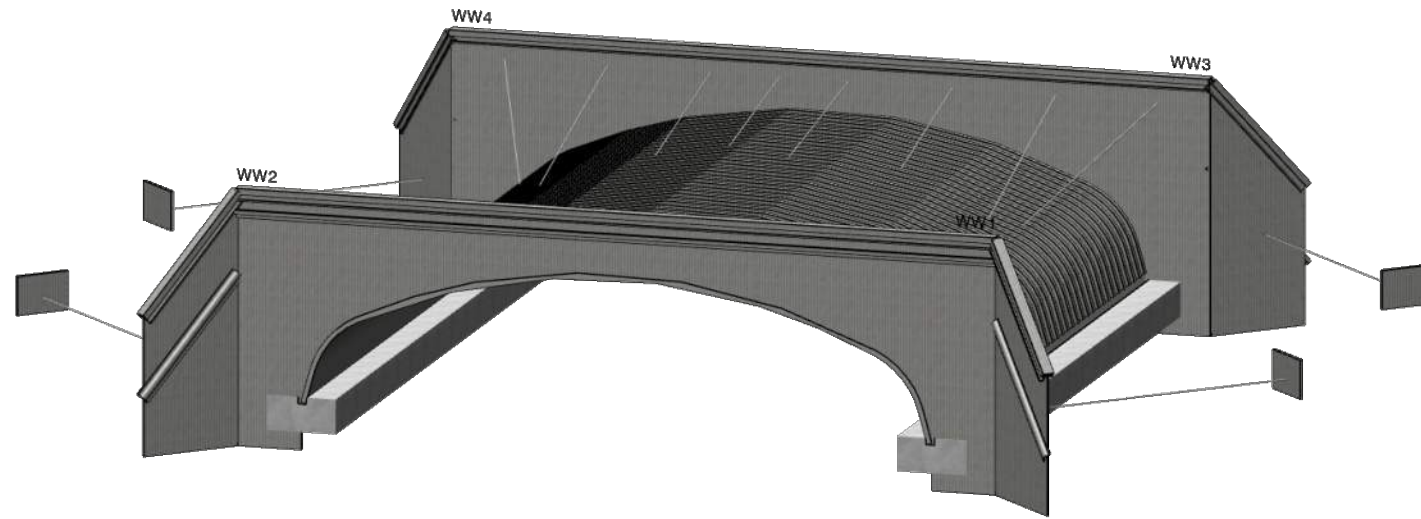
## OUTLET HEADWALL

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- OUTLET HEADWALL HEIGHT = 10.92 FT.
- OUTLET HEADWALL WIDTH = 33 FT.
- OUTLET HEADWALL TRENCH = 2 FT.

## WINGWALLS

- WW1 ANGLE = 45 DEG.
- WW1 LENGTH = 4.5 FT.
- WW1 HIGH HEIGHT = 10.92 FT.
- WW1 LOW HEIGHT = 6.00 FT.
- WW2 ANGLE = 45 DEG.
- WW2 LENGTH = 4.5 FT.
- WW2 HIGH HEIGHT = 10.92 FT.
- WW2 LOW HEIGHT = 6.00 FT.
- WW3 ANGLE = 45 DEG.
- WW3 LENGTH = 4.5 FT.
- WW3 HIGH HEIGHT = 10.92 FT.
- WW3 LOW HEIGHT = 6.00 FT.
- WW4 ANGLE = 45 DEG.
- WW4 LENGTH = 4.5 FT.
- WW4 HIGH HEIGHT = 10.92 FT.
- WW4 LOW HEIGHT = 6.00 FT.

# ALBC ALUMINUM BOX CULVERT DYO ALBC IRRIGATION DITCH CROSSING



## NOTES

1. THIS BRIDGE HAS BEEN DESIGNED FOR GENERAL SITE CONDITIONS. THE PROJECT ENGINEER SHALL BE RESPONSIBLE FOR THE STRUCTURE'S SUITABILITY TO THE EXISTING SITE CONDITIONS AND FOR THE HYDRAULIC EVALUATION -- INCLUDING SCOUR AND CONFIRMATION OF SOIL CONDITIONS.
2. PRIOR TO CONSTRUCTION, CONTRACTOR MUST VERIFY ALL ELEVATIONS SHOWN THROUGH THE ENGINEER.
3. ONLY CONTECH ENGINEERED SOLUTIONS LLC, THE ALUMINUM BOX CULVERT (ALBC) APPROVED MANUFACTURER IN THE PROJECT STATE, MAY PROVIDE THE STRUCTURE DESIGNED IN ACCORDANCE WITH THESE PLANS.
4. THIS DYOB DRAWING IS A CONCEPTUAL DESIGN. PLEASE WORK WITH YOUR LOCAL BRIDGE CONSULTANT FOR FURTHER SOLUTION DEVELOPMENT AND PRICING.

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**CONTECH**  
STRUCTURAL PLATE

DYOB  
DRAWING

DYO55945 JC RANCHES  
ALBC IRRIGATION DITCH CROSSING  
TETONIA, ID

ALBC ALUMINUM BOX CULVERT 27'-0" SPAN X 6'-3" RISE

PROJECT No.: 39248	DYO No.: 55945	DATE: 07/22/2024
DESIGNED: DYO	DRAWN: DYO	
CHECKED: DYO	APPROVED: DYO	
SHEET NO.: D1		OF D10

## 1.0 STANDARDS AND DEFINITIONS

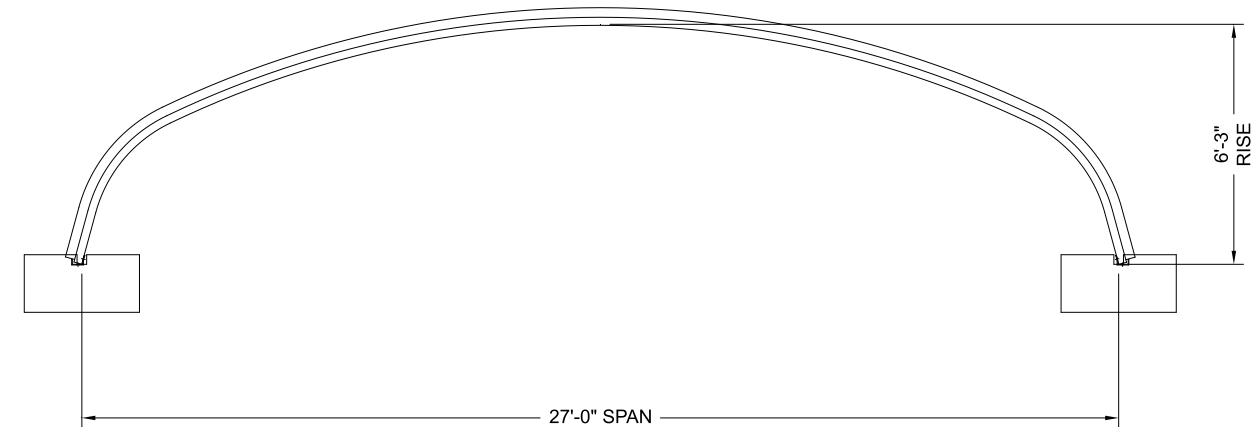
- 1.1 STANDARDS - ALL STANDARDS REFER TO LATEST EDITION UNLESS OTHERWISE NOTED.
- 1.1.1 ASTM B-864 "STANDARD SPECIFICATION FOR CORRUGATED ALUMINUM BOX CULVERTS" (AASHTO DESIGNATION M-219).
- 1.1.2 AASHTO LRFD SPECIFICATION FOR HIGHWAY BRIDGES - SECTION 12 DIVISION I - DESIGN.
- 1.1.3 AASHTO LRFD SPECIFICATION FOR HIGHWAY BRIDGES - SECTION 26 DIVISION II - CONSTRUCTION.

## 1.2 DEFINITIONS

- 1.2.1 OWNER - IN THESE SPECIFICATIONS THE WORD "OWNER" SHALL MEAN XXXX.
- 1.2.2 ENGINEER - IN THESE SPECIFICATIONS THE WORD "ENGINEER" SHALL MEAN THE ENGINEER OF RECORD OR OWNER'S DESIGNATED ENGINEERING REPRESENTATIVE.
- 1.2.3 MANUFACTURER - IN THESE SPECIFICATIONS THE WORD "MANUFACTURER" SHALL MEAN CONTECH ENGINEERED SOLUTIONS, LLC 800-338-1122.
- 1.2.4 CONTRACTOR - IN THESE SPECIFICATIONS THE WORD "CONTRACTOR" SHALL MEAN THE FIRM OR CORPORATION UNDERTAKING THE EXECUTION OF ANY INSTALLATION WORK UNDER THE TERMS OF THESE SPECIFICATIONS.
- 1.2.5 APPROVED - IN THESE SPECIFICATIONS THE WORD "APPROVED" SHALL REFER TO THE APPROVAL OF THE ENGINEER OR HIS DESIGNATED REPRESENTATIVE.
- 1.2.6 AS DIRECTED - IN THESE SPECIFICATIONS THE WORDS "AS DIRECTED" SHALL REFER TO THE DIRECTIONS TO THE CONTRACTOR FROM THE OWNER OR HIS DESIGNATED REPRESENTATIVE.

## 2.0 GENERAL CONDITIONS

- 2.1 THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIAL AND EQUIPMENT AND PERFORM ALL WORK AND SERVICES EXCEPT THOSE SET OUT AND FURNISHED BY THE OWNER, NECESSARY TO COMPLETE IN A SATISFACTORY MANNER THE SITE PREPARATION, EXCAVATION, FILLING, COMPACTION, GRADING AS SHOWN ON THE PLANS AND AS DESCRIBED THEREIN. THIS WORK SHALL CONSIST OF ALL MOBILIZATION CLEARING AND GRADING, GRUBBING, STRIPPING, REMOVAL OF EXISTING MATERIAL UNLESS OTHERWISE STATED, PREPARATION OF THE LAND TO BE FILLED, FILLING OF THE LAND, SPREADING AND COMPACTION OF THE FILL, AND ALL SUBSIDIARY WORK NECESSARY TO COMPLETE THE GRADING OF THE CUT AND FILL AREAS TO CONFORM WITH THE LINES, GRADES, SLOPES, AND SPECIFICATIONS. THIS WORK IS TO BE ACCOMPLISHED UNDER THE OBSERVATION OF THE OWNER OR HIS DESIGNATED REPRESENTATIVE.
- 2.2 PRIOR TO BIDDING THE WORK, THE CONTRACTOR SHALL EXAMINE, INVESTIGATE AND INSPECT THE CONSTRUCTION SITE AS TO THE NATURE AND LOCATION OF THE WORK, AND THE GENERAL AND LOCAL CONDITIONS AT THE CONSTRUCTION SITE, INCLUDING WITHOUT LIMITATION, THE CHARACTER OF SURFACE OR SUBSURFACE CONDITIONS AND OBSTACLES TO BE ENCOUNTERED ON AND AROUND THE CONSTRUCTION SITE AND SHALL MAKE SUCH ADDITIONAL INVESTIGATION AS HE MAY DEEM NECESSARY FOR THE PLANNING AND PROPER EXECUTION OF THE WORK.
- IF CONDITIONS OTHER THAN THOSE INDICATED ARE DISCOVERED BY THE CONTRACTOR, THE OWNER SHALL BE NOTIFIED IMMEDIATELY. THE MATERIAL WHICH THE CONTRACTOR BELIEVES TO BE A CHANGED CONDITION SHALL NOT BE DISTURBED SO THAT THE OWNER CAN INVESTIGATE THE CONDITION.
- 2.3 THE CONSTRUCTION SHALL BE PERFORMED UNDER THE DIRECTION OF THE ENGINEER.
- 2.4 ALL ASPECTS OF THE STRUCTURE DESIGN AND SITE LAYOUT INCLUDING FOUNDATIONS, BACKFILL, END TREATMENTS AND NECESSARY SCOUR CONSIDERATION SHALL BE PERFORMED BY THE ENGINEER.
- ANY INSTALLATION GUIDANCE PROVIDED HEREIN SHALL BE ENDORSED BY THE ENGINEER OR SUPERSEDED BY THE ENGINEER'S PLANS AND SPECIFICATIONS.



**CROSS SECTION**

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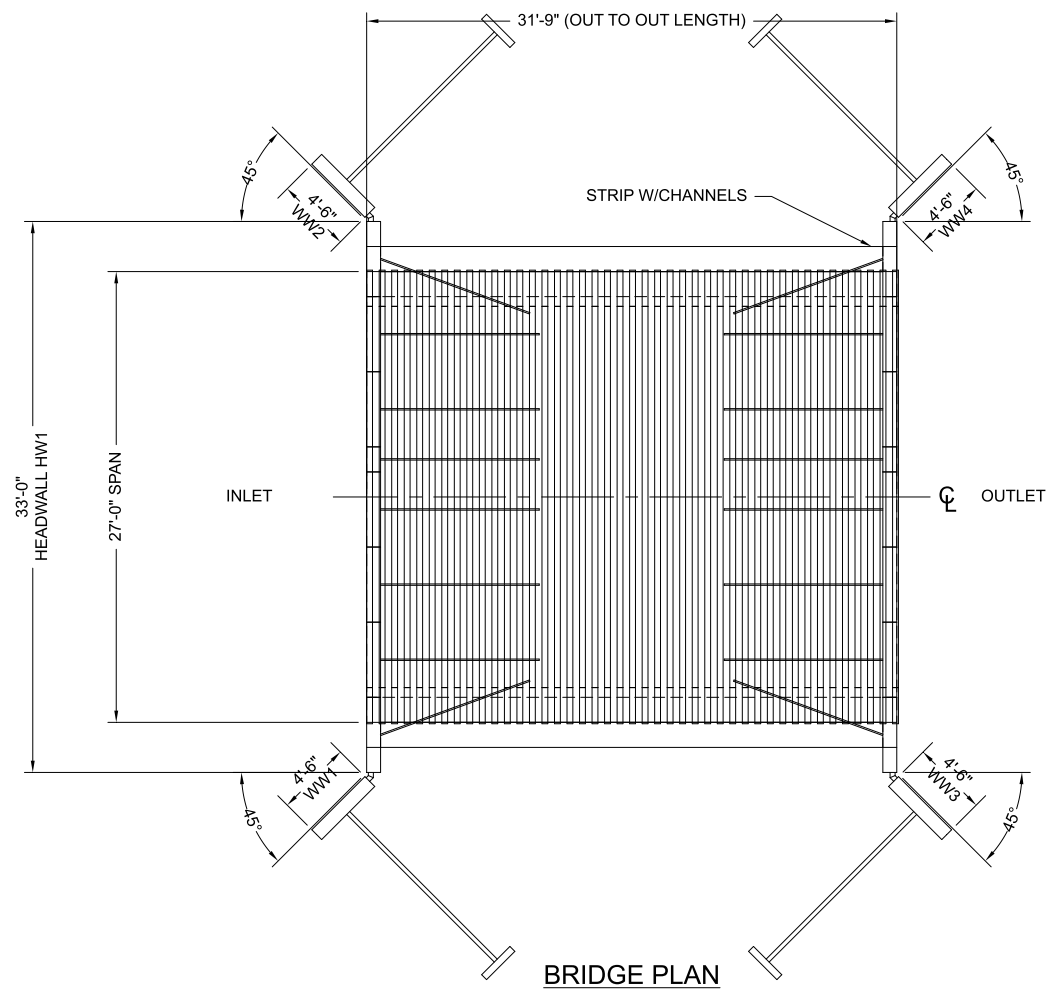
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DRAWING

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ALBC IRRIGATION DITCH CROSSING  
TETONIA, ID  
ALBC ALUMINUM BOX CULVERT 27'-0" SPAN X 6'-3" RISE

PROJECT No.: 39248	DYO No.: 55945	DATE: 07/22/2024
DESIGNED: DYO	DRAWN: DYO	
CHECKED: DYO	APPROVED: DYO	
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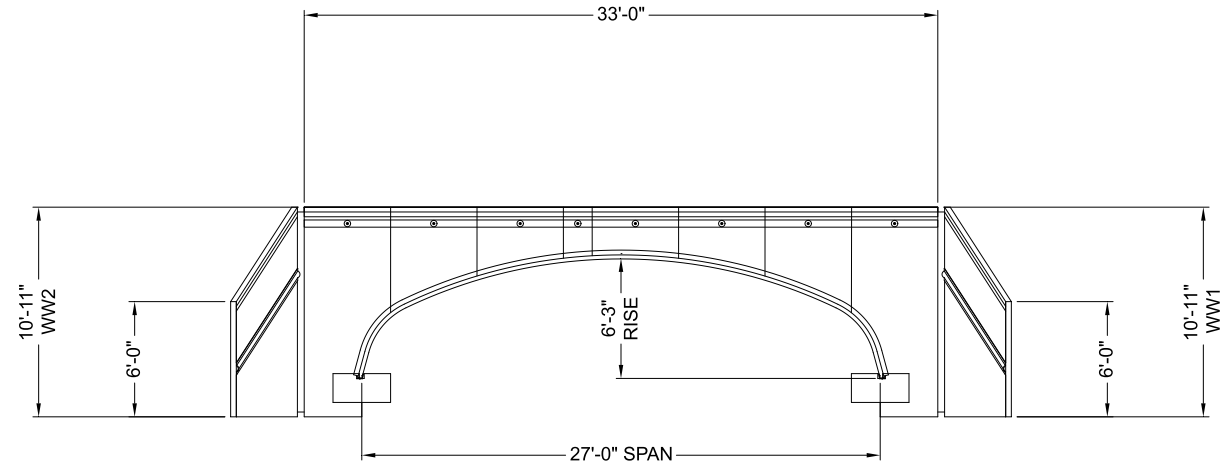
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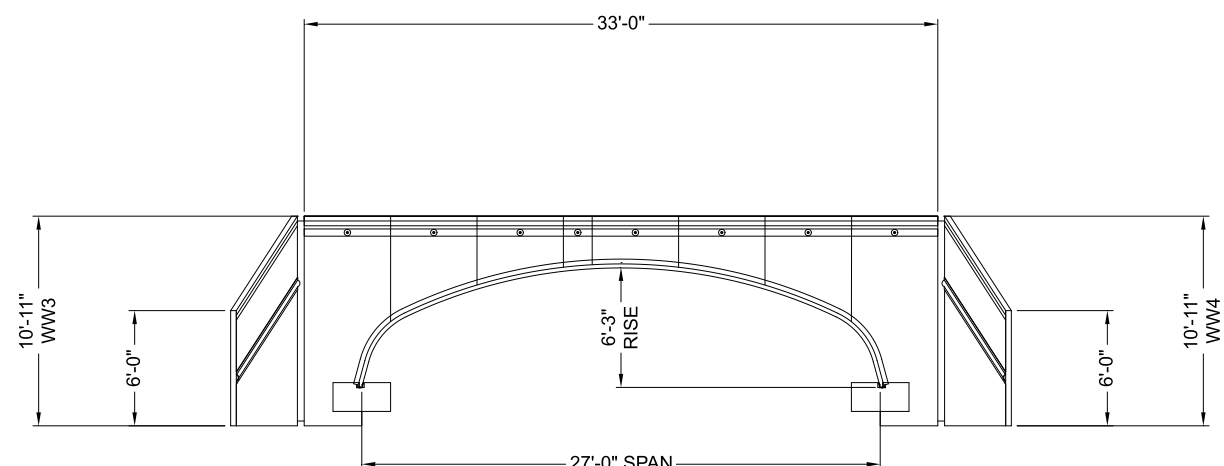
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INLET END ELEVATION



OUTLET END ELEVATION

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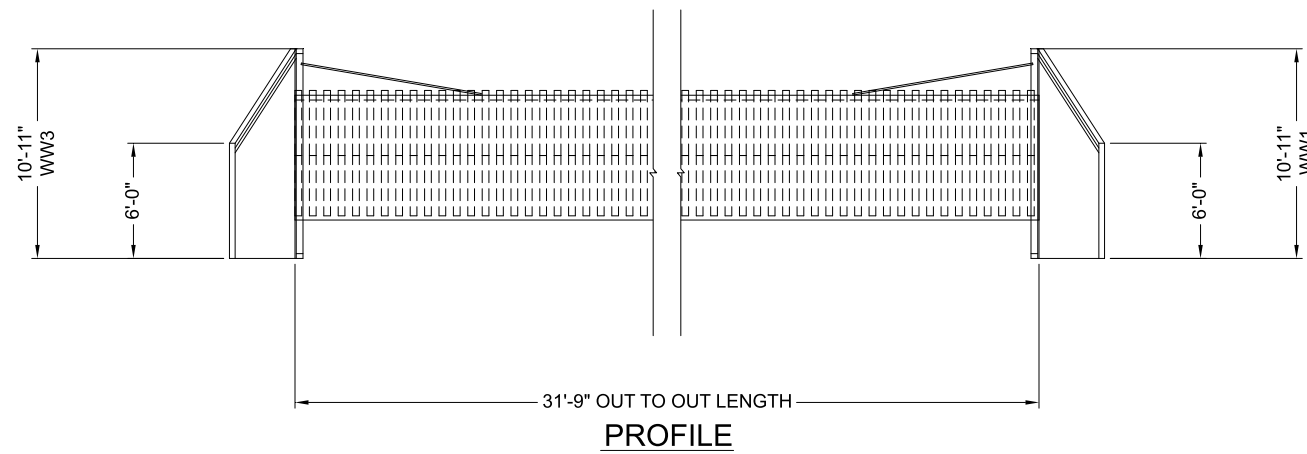
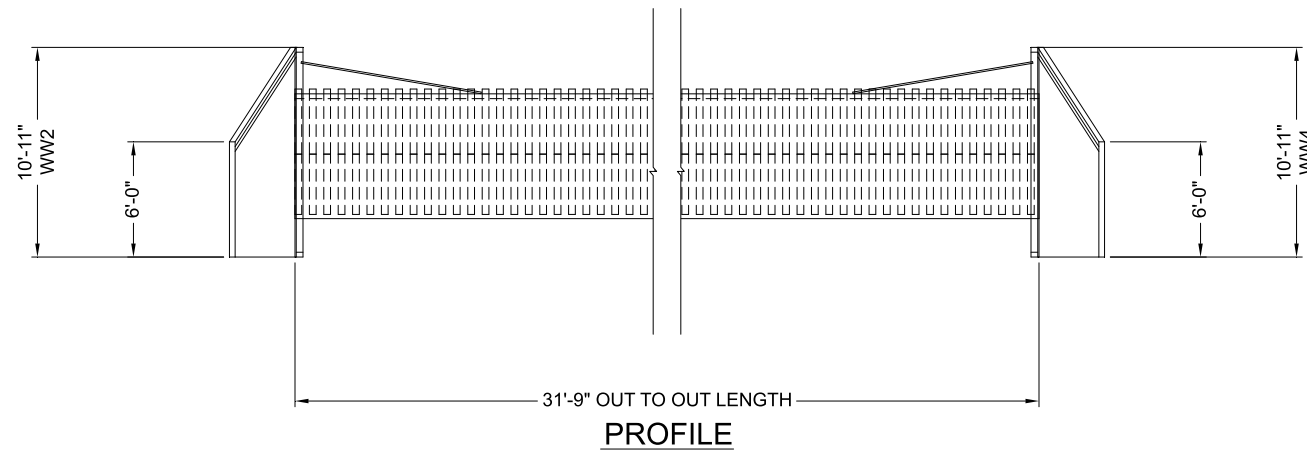
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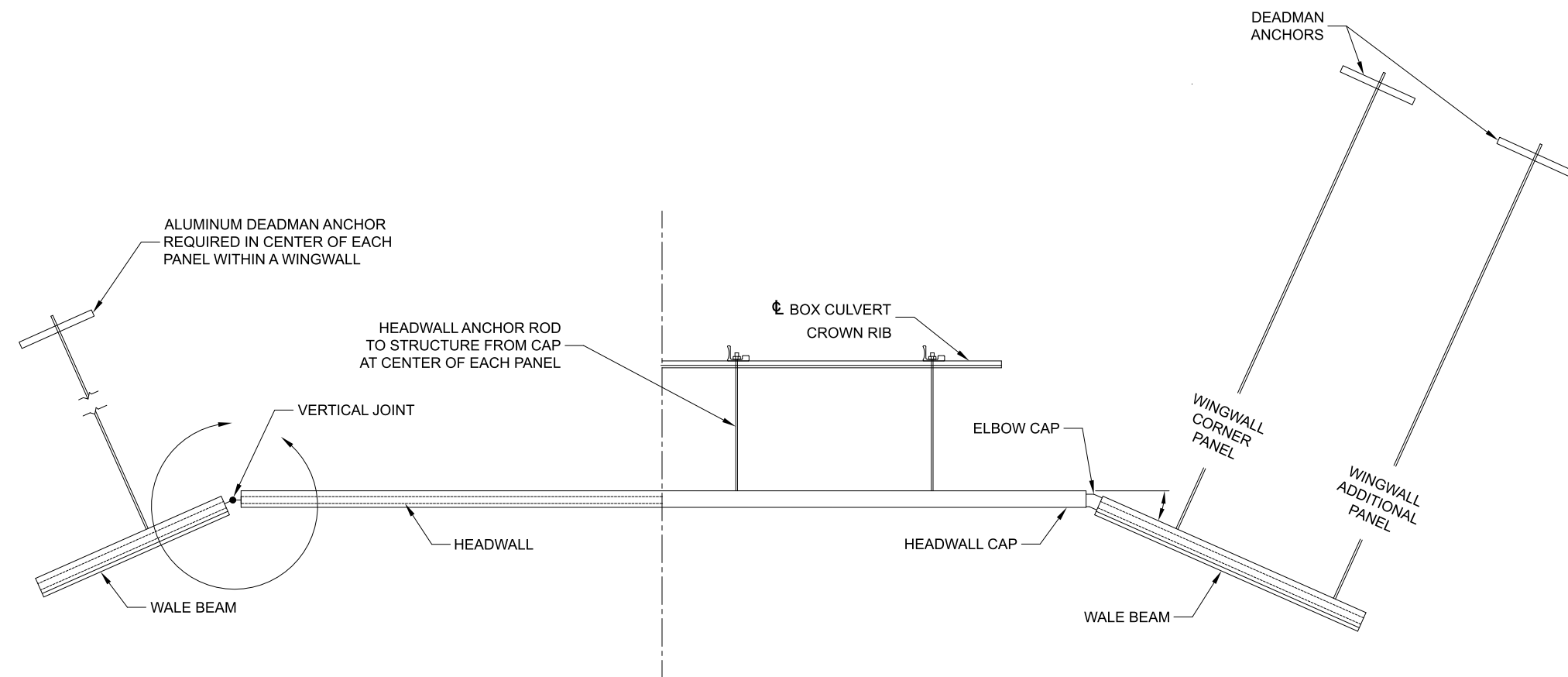
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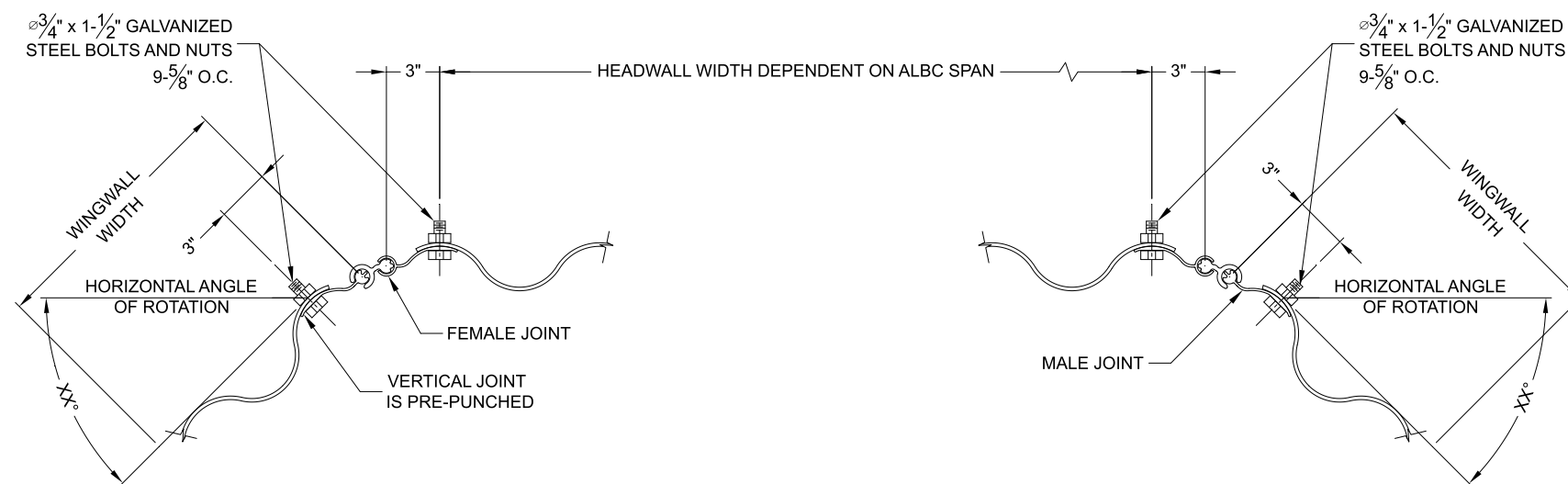
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PLAN VIEW



TYPICAL HEADWALL PANEL TO WING PANEL JOINTS DETAIL

(BOTH ENDS)

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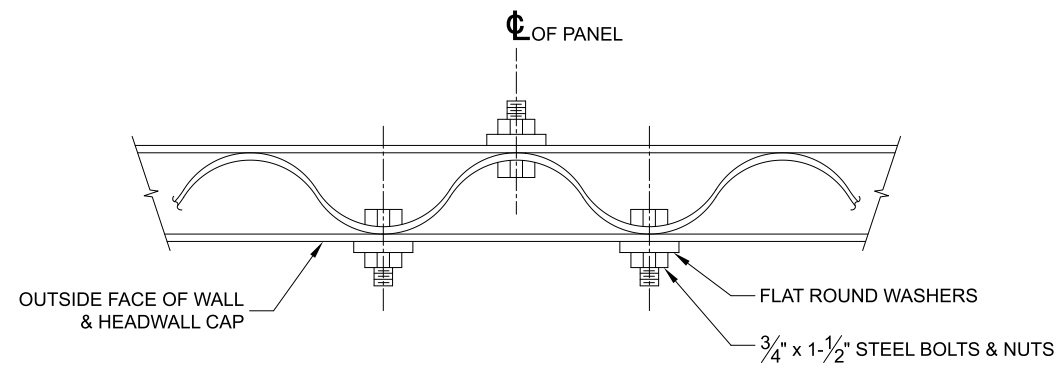
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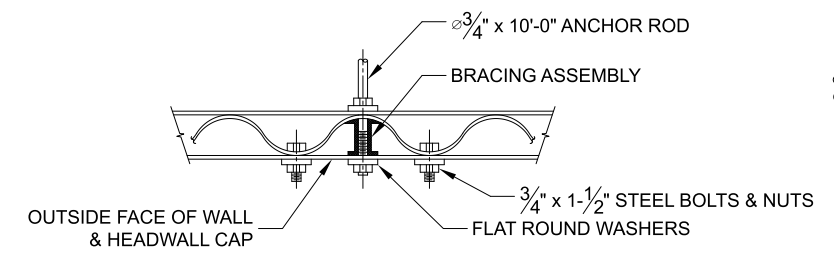
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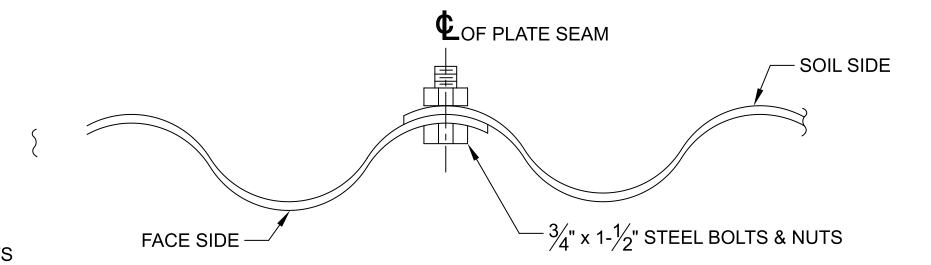
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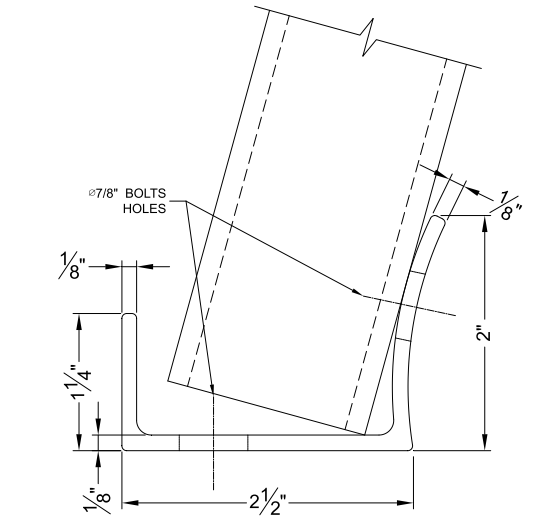
**HEADWALL CAP AT ATTACHMENT TO PANEL DETAIL**



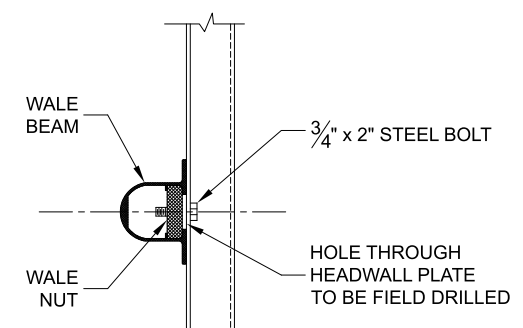
**TYPICAL ANCHOR ROD ATTACHMENT DETAIL**



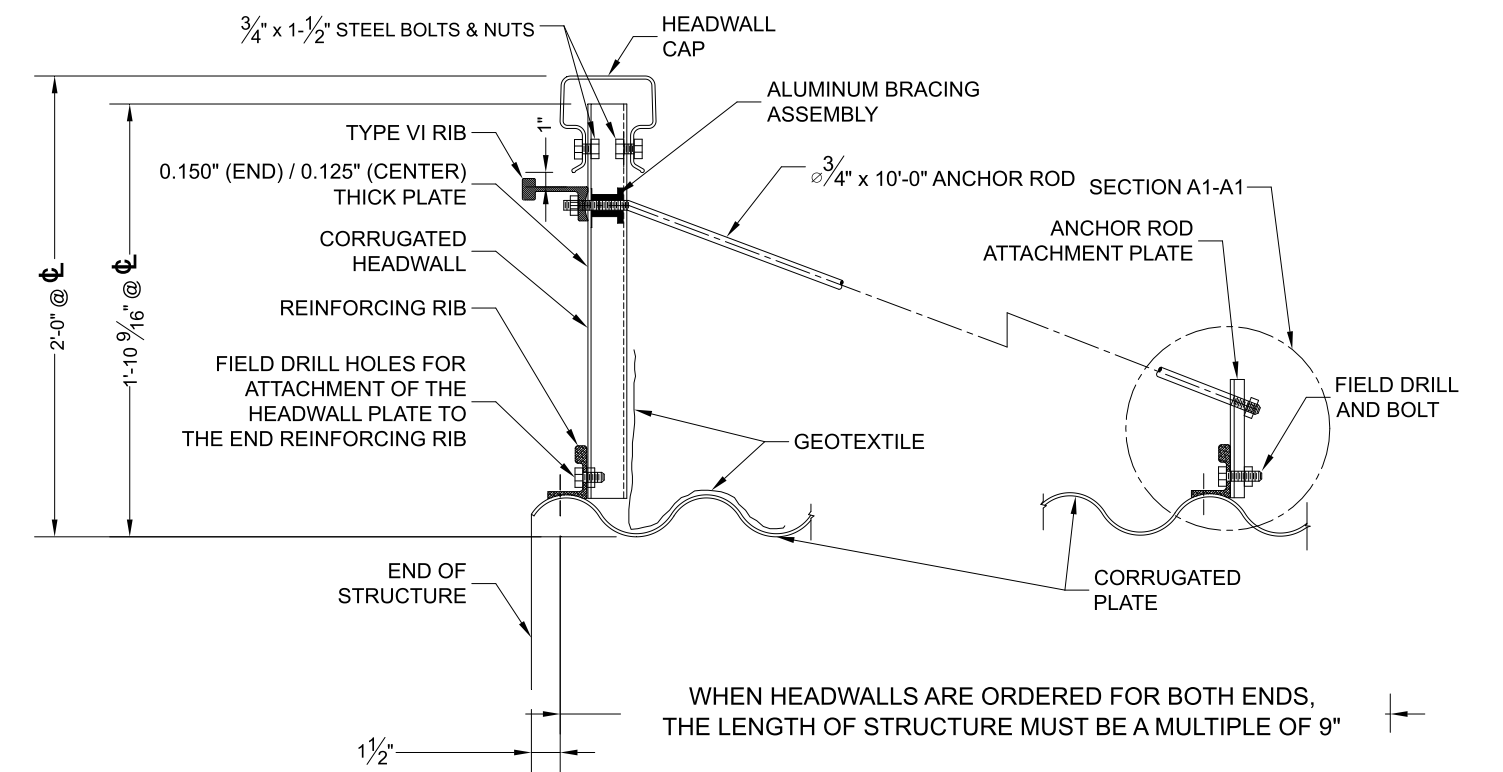
**TYPICAL PANEL LAP DETAIL**



**ALUMINUM RECEIVING CHANNEL**



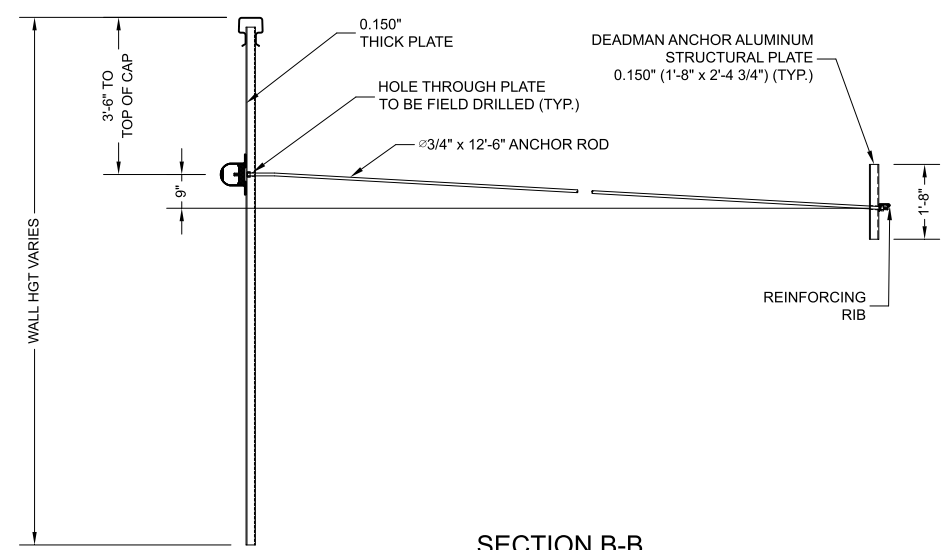
**WALE BEAM ATTACHMENT**



**SECTION A-A  
HEADWALL ATTACHMENT  
TO CROWN OF STRUCTURE**

**NOTES:**

- 1) REVERSE CROWN RIB FOR PROPER ANCHOR ROD ATTACHMENT PLATE ORIENTATION.
- 2) NO SPLICE PLATES ARE USED FOR THE TYPE IV REINFORCING RIBS ATTACHED TO THE CORRUGATED HEADWALL.
- 3) REINFORCING RIB AT EACH END OF STRUCTURE MUST BE ORIENTED SUCH THAT THE HEADWALL CAN BE PLACE BEHIND THEM AS SHOWN.
- 4) MINIMUM TOE DEPTH OF HEADWALL IS 24 INCHES.
- 5) IF HEADWALL HEIGHT > 24 INCHES, A SPECIAL HEADWALL DETAIL IS REQUIRED.



**SECTION B-B  
DEADMAN ANCHOR  
ATTACHMENT**

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