

WASATCH PEAKS RANCH - USACE IMPACTS PLAN

SECTION 1 TOWNSHIP 4 NORTH, RANGE 1 EAST AND SECTION 6 TOWNSHIP 4 NORTH, RANGE 2 EAST
MORGAN COUNTY, UTAH

BASIS OF BEARING

SOUTH 09°49'08" EAST BETWEEN THE SOUTH QUARTER CORNER AND THE SOUTHEAST CORNER OF SECTION 27, TOWNSHIP 5 NORTH, RANGE 1 EAST, SALT LAKE BASE & MERIDIAN

BENCHMARK

FROM SUBURBS

LEGAL DESCRIPTION

FROM SURVEY

SURVEY CONTROL NOTES

1. PROJECT COORDINATES WERE COMPUTED FROM A MAGNETIC STATE PLANE (UTM NORTHZONE 48U) UTM FOOT.
2. COORDINATES HAVE BEEN OBTAINED BY A STATIC SURVEY. ALL COORDINATES LISTED IN THESE TABLES ARE PROJECT BASED
3. COMBINED SCALE FACTOR = 1.00115953
4. GRID MODEL = 12A
5. LOCAL SITE
NAD 1983 7803
LONGITUDE 141°14'48.46"E
HEIGHT 5960.17'
6. FALSE NORTHING OFFSET = 3,000,000.00

SITE INFORMATION

TOTAL SITE AREA	9.654.8 ACRES
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CONSULTANTS

[illegible]

AGENCY CONTACTS

PLANNING
MUSKOGEE COUNTY PLANNING
1055 DUFF DRIVE, SUITE 225
DALLAS, TX 75243
CONTACT/CLANCE EWING
PHONE: (972) 442-4249

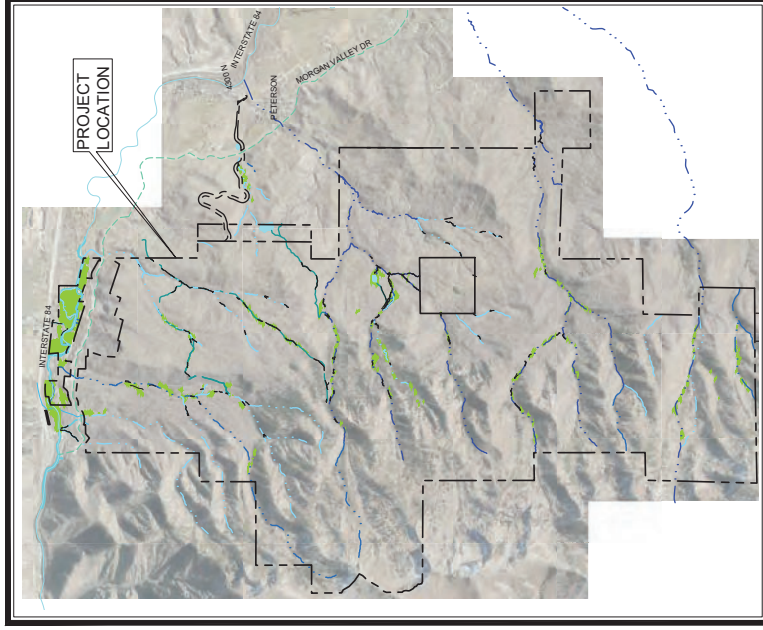
GAS SERVICE
1045 W. 300 S.
MUSKOGEE, OK 74403
CALL TOLL FREE: 811-8104
PHONE: (801) 324-3305

ENGINEERS
ROOT MOUNTAIN POWER
ENGINEERS, INC.
1105 DUFF DRIVE, SUITE 225
DALLAS, TX 75243
CONTACT/JOHN W. WATKINS
PHONE: (972) 352-4052

ENGINEERS
MUSKOGEE COUNTY ENGINEERING
1055 DUFF DRIVE, SUITE 225
DALLAS, TX 75243
CONTACT/JOHN MARK LARUE, P.E.
PHONE: (972) 442-4249

SHEET INDEX

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C2.100	SECTION PROPOSED	



VICINITY MAP

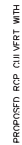
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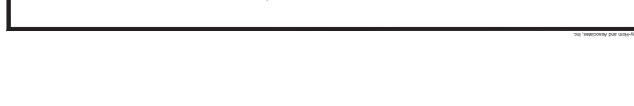
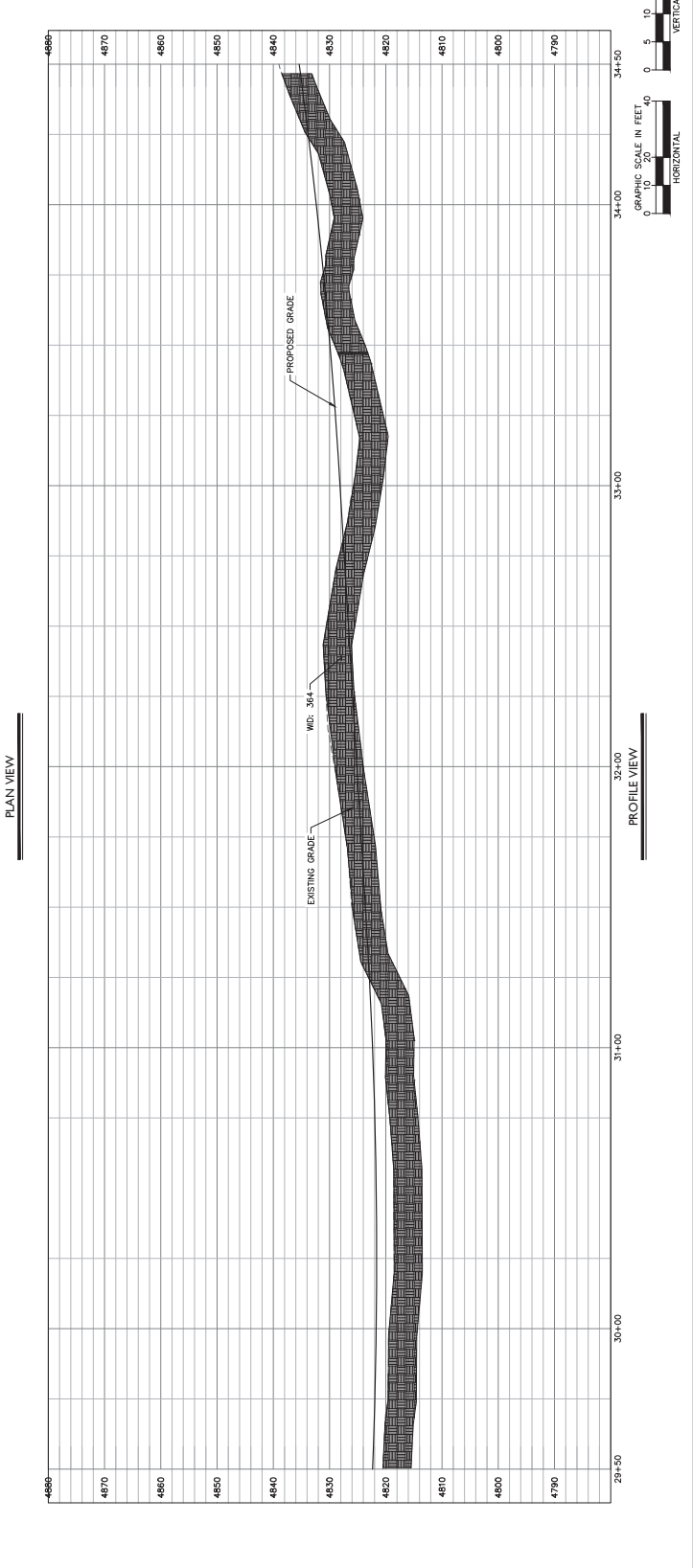
DRAWN BY:	DMS
DESIGNED BY:	BS
CHECKED BY:	ZAJ
PROJECT NO.:	096360005
SCALE:	AS SHOWN

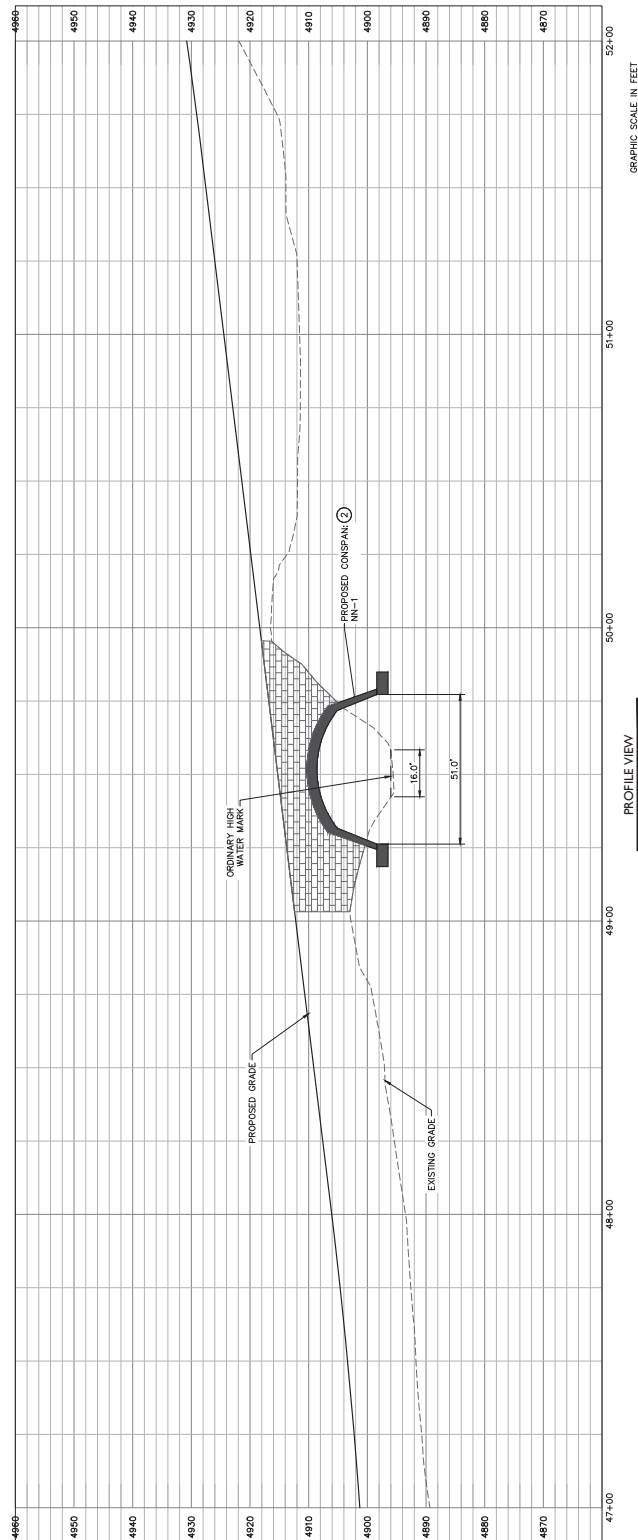
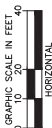
NOT FOR
CONSTRUCTION

SHEET
C0.00

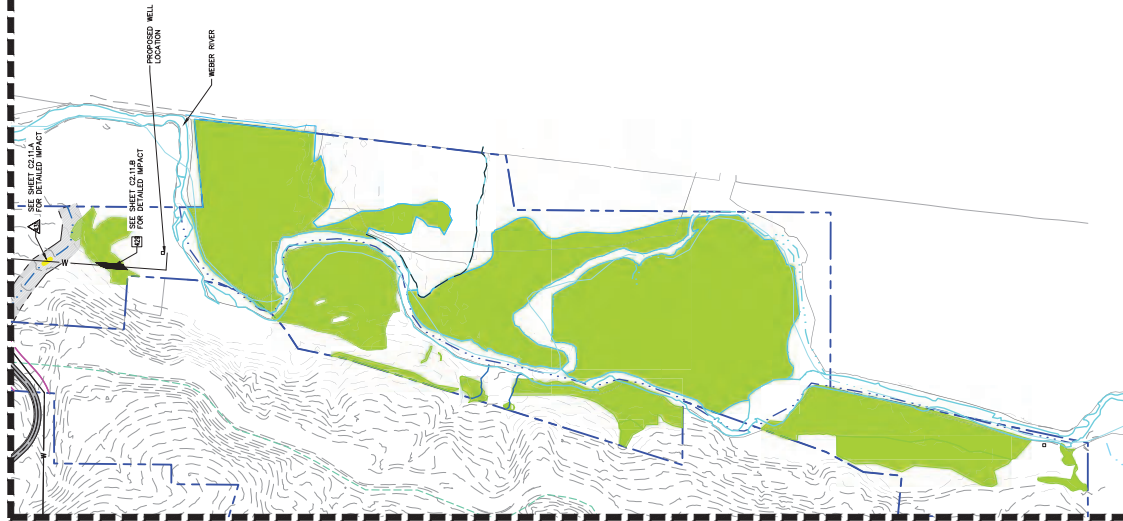
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MATCHLINE - SEE SHEET C2.10



MATCHLINE - SEE SHEET C2.13

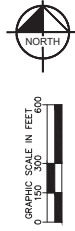
LEGEND

PROPERTY BOUNDARY	ACCESS ROAD
SKI RUNS	PROPOSED SKI LIFT
DEVELOPMENT AREAS	PROPOSED GOLF COURSE
SURVEYED WETLANDS	PROPOSED 50' RIPARIAN BUFFER
EPHEMERAL CREEK	INTERMITTENT CREEK
PERENNIAL CREEK	ORDINARY HIGH WATER MARK (OHWM)
MAN-MADE DIVERSION	NEW/OLD CANAL
LIMITS OF DISTURBANCE	PROJECTED CREEK IMPACT
PROJECTED MAN-MADE DIVERSION IMPACT	PROJECTED WETLAND IMPACT
PROPOSED ARTERIAL ROAD	PROPOSED GAS LINE
PROPOSED ELECTRICAL LINE	PROPOSED IRRIGATION LINE
PROPOSED WATER LINE	PROPOSED SEWER LINE
CREEK IMPACT NUMBER	WETLAND IMPACT NUMBER
MAN MADE DIVERSION IMPACT NUMBER	

KEY NOTES

- A SEE DETAIL 2 SHEET C3.0 FOR PROPOSED DESIGN CROSS SECTION. THE PROPOSED DESIGN CROSS SECTION WILL RESULT IN PERMANENT IMPACTS TO STREAMS. SEE DETAIL 4 SHEET C3.0 FOR PROPOSED DESIGN CROSS SECTION FOR CREEK RELOCATION (SEE DETAIL 3).
- B RELOCATION OF CREEK IS CLASSIFIED AS TEMPORARY IMPACT. SEE DETAIL 3 SHEET C3.0 FOR PROPOSED DESIGN CROSS SECTION FOR CREEK RELOCATION (SEE DETAIL 3).
- C MATCH EXISTING AND IS CLASSIFIED AS NO IMPACT. SEE DETAIL 3 SHEET C3.0 FOR PROPOSED DESIGN CROSS SECTION FOR CREEK RELOCATION (SEE DETAIL 3).
- D RETAIL OUTFALL WILL BE LOCATED ABOVE ORDINARY HIGH WATER MARK AND IS CLASSIFIED AS NO IMPACT. SEE DETAIL 3 SHEET C3.0 FOR PROPOSED DESIGN CROSS SECTION FOR CREEK RELOCATION (SEE DETAIL 3).
- E WATER MARK AND IS CLASSIFIED AS NO IMPACT. SEE DETAIL 3 SHEET C3.0 FOR PROPOSED DESIGN CROSS SECTION FOR CREEK RELOCATION (SEE DETAIL 3).
- F SEE DETAIL 3 SHEET C3.0 FOR TYPICAL CREEK RELOCATION AND TEMPORARY IMPACT. SEE DETAIL 3 SHEET C3.0 FOR PROPOSED DESIGN CROSS SECTION FOR CREEK RELOCATION (SEE DETAIL 3).
- G SEE DETAIL 3 SHEET C3.0 FOR TYPICAL CREEK RELOCATION AND TEMPORARY IMPACT. SEE DETAIL 3 SHEET C3.0 FOR PROPOSED DESIGN CROSS SECTION FOR CREEK RELOCATION (SEE DETAIL 3).
- H UTILITY LINE TO BE INSTALLED VIA HORIZONTAL DIRECTIONAL IMPACT TYPE CLASSIFIED AS PERMANENT. SEE DETAIL 3 SHEET C3.0 FOR PROPOSED DESIGN CROSS SECTION FOR CREEK RELOCATION (SEE DETAIL 3).
- I ANTICIPATED AS NO IMPACT.

PROPOSED RIPARIAN BUFFER
SECTION TOTAL: 0 AC



NOT FOR CONSTRUCTION

SHEET C2.11

SECTION PROPOSED
MORGAN COUNTY, UTAH
WASATCH PEAKS RANCH

PROJECT NO.: 090360005	SCALE: AS SHOWN
CHECKED BY: ZAL	
DESIGNED BY: BS	
DRAWN BY: DMS	

Kimley-Horn
215 South State Street, Suite 200, Salt Lake City, UT 84111 | TEL: 801.224.2176

LEGEND

PROPERTY LINE

ACCESS ROAD

SURVEYED WETLANDS

PROPOSED SKI RUN

PROPOSED GOLF COURSE

PROPOSED SKI LIFT

PROPOSED DEVELOPMENT

PROPOSED 50' RIPARIAN BUFFER

EPHEMERAL STREAM

INTERMITTENT STREAM

PERENNIAL STREAM

CONVEYANCE HIGH WATER

MARK (TOWN)

MAN MADE DIVERSION

LIMITS OF DISTURBANCE

LOD

PROL. STREAM IMPACT

PROL. MAN-MADE DIVERSION IMPACT

PROL. WETLAND IMPACT

PROP. ARTERIAL ROAD

PROPOSED GAS LINE

PROPOSED ELEC. LINE

IRR

PROPOSED IRR. LINE

PROPOSED WATER LINE

SS

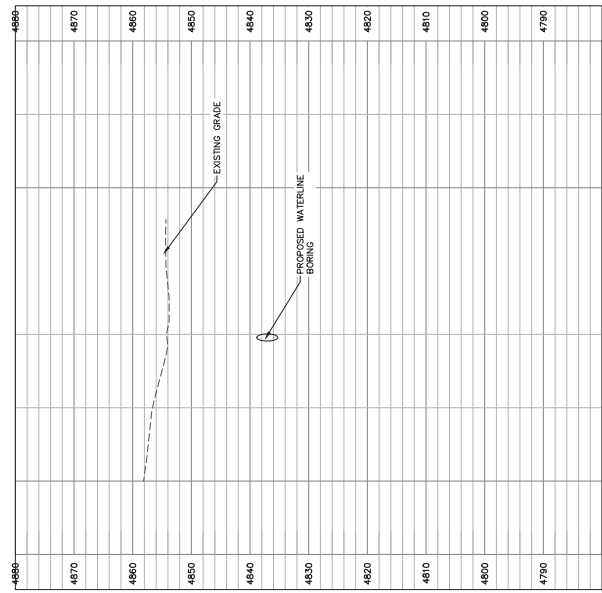
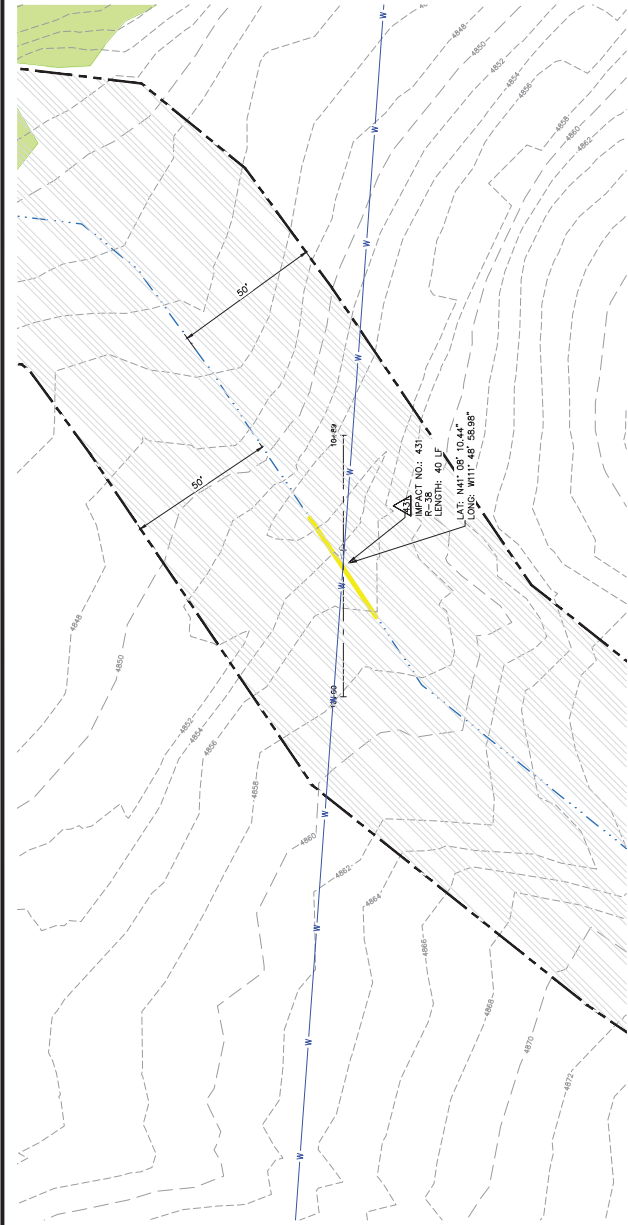
PROPOSED SEWER LINE

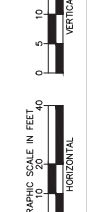
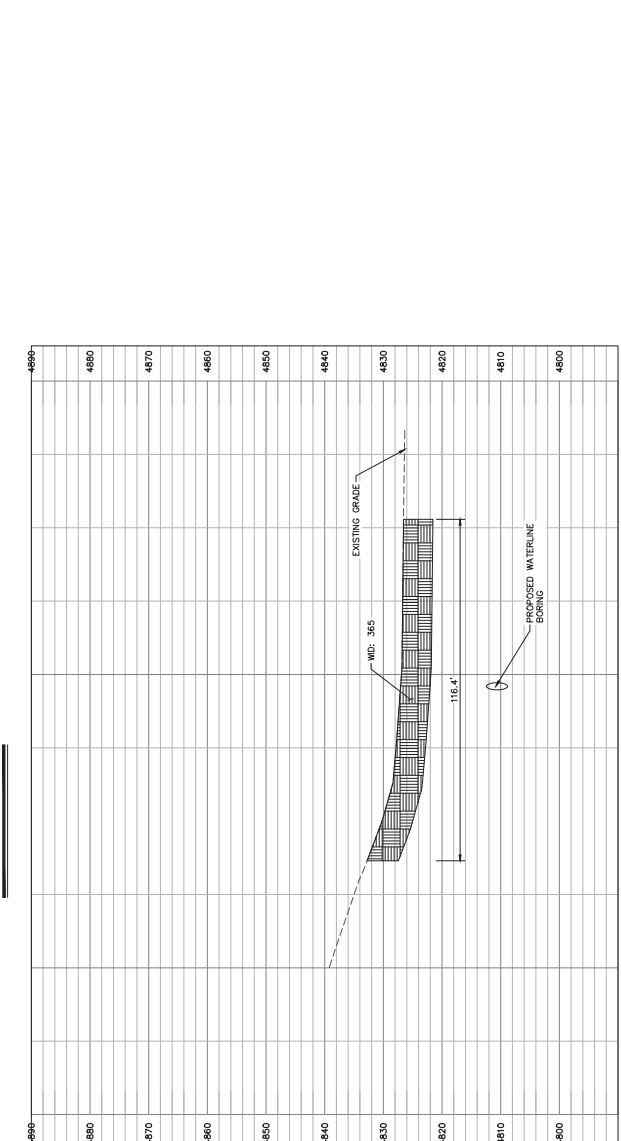
KEY NOTES

1 PROPOSED ROP CULVERT WITH 15' CLEARANCE OVER DOWNSTREAM FLARED END SECTION (FES) AND RIP RAP. SIZE PER PLAN.

2 PROPOSED CONSPAN O-SERIES 15' SPAN WITH 15' CLEARANCE OVER DOWNSTREAM FLARED END SECTION (FES) AND RIP RAP. SIZE PER PLAN.

CREEK IMPACT #431	
IMPACT LENGTH (LF)	40
IMPACT WIDTH (LF)	5
IMPACT FOOTPRINT (SF)	200
FILL BELOW OHWM (CY)	0





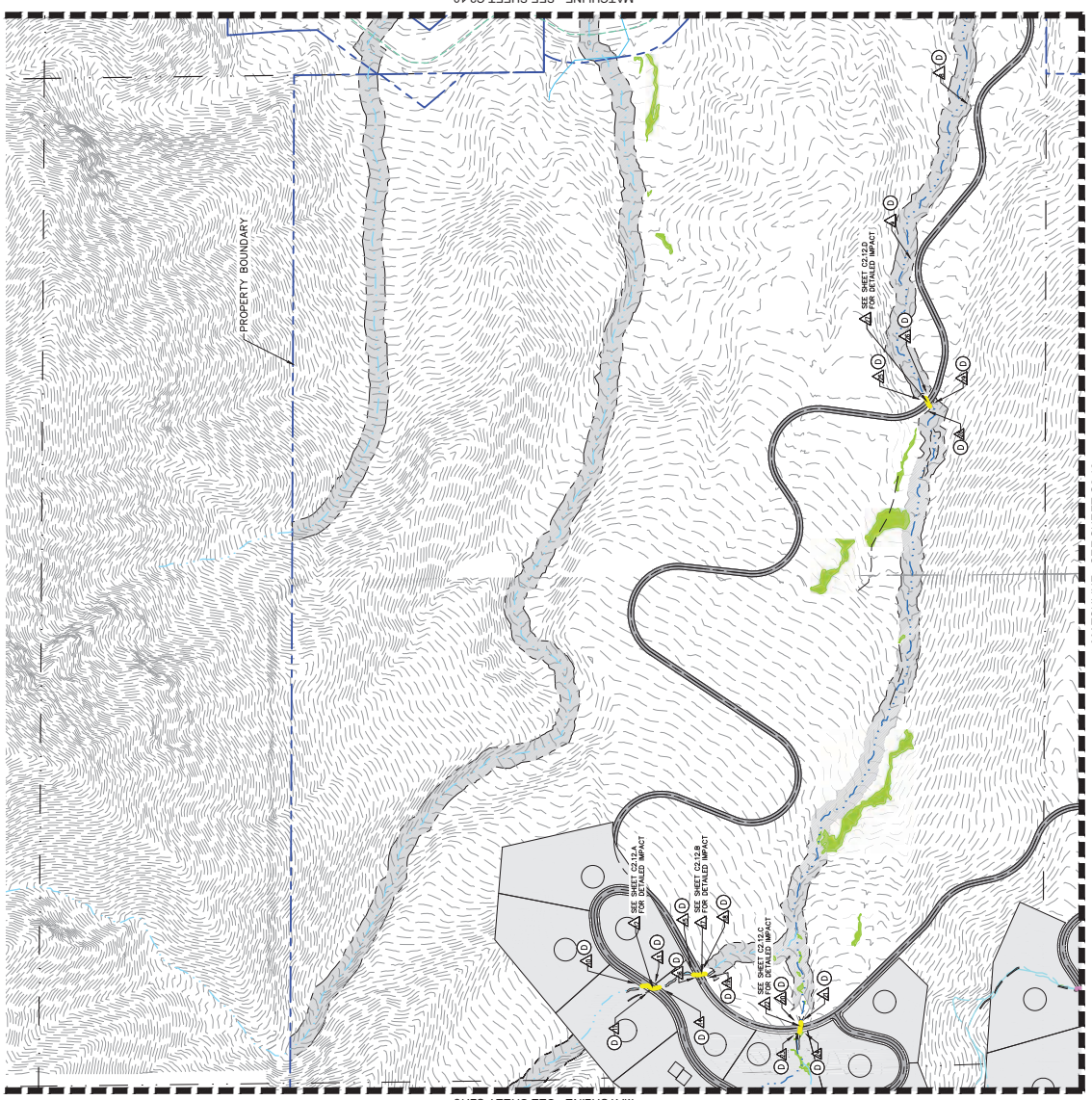
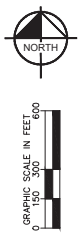
LEGEND

- PROPERTY BOUNDARY
- ACCESS ROAD
- SKI RUNS
- PROPOSED SKI LIFT
- DEVELOPMENT AREAS
- PROPOSED GOLF COURSE
- SURVEYED WETLANDS
- PROPOSED 50' RIPARIAN BUFFER
- EPHEMERAL CREEK
- INTERMITTENT CREEK
- PERENNIAL CREEK
- ORDINARY HIGH WATER MARK (OHWM)
- MAN-MADE DIVERSION
- NEW/OLD CANAL
- LIMITS OF DISTURBANCE
- PROJECTED CREEK IMPACT
- PROJECTED MAN-MADE DIVERSION IMPACT
- PROJECTED WETLAND IMPACT
- PROPOSED ARTERIAL ROAD
- PROPOSED GAS LINE
- PROPOSED ELECTRICAL LINE
- PROPOSED IRRIGATION LINE
- PROPOSED WATER LINE
- PROPOSED SEWER LINE
- CREEK IMPACT NUMBER
- WETLAND IMPACT NUMBER
- MAN-MADE DIVERSION IMPACT NUMBER

KEY NOTES

- A SEE DETAIL 2 SHEET C3.0 FOR PROPOSED DESIGN CROSS SECTIONS. THE PROPOSED DESIGN CROSS SECTIONS WILL RESULT IN PERMANENT IMPACTS TO STREAMS, WETLANDS, AND CREEKS. THE PROPOSED DESIGN CROSS SECTIONS WILL BE CLASSIFIED AS PERMANENT IMPACTS.
- B SEE DETAIL 2 SHEET C3.0 FOR PROPOSED DESIGN CROSS SECTIONS. THE PROPOSED DESIGN CROSS SECTIONS WILL BE CLASSIFIED AS PERMANENT IMPACTS.
- C RELOCATION OF CREEK IS CLASSIFIED AS TEMPORARY IMPACT. THE RELOCATION OF CREEK WILL BE CLASSIFIED AS TEMPORARY IMPACT.
- D MATCH EXISTING AND IS CLASSIFIED AS NO IMPACT. THE MATCH EXISTING AND IS CLASSIFIED AS NO IMPACT.
- E WATER MARK AND IS CLASSIFIED AS NO IMPACT. THE WATER MARK AND IS CLASSIFIED AS NO IMPACT.
- F SEE DETAIL 3 SHEET C3.1 FOR TYPICAL CREEK RELOCATION AND IMPACT. THE TYPICAL CREEK RELOCATION AND IMPACT IS CLASSIFIED AS NO IMPACT.
- G IMPACT TYPE CLASSIFIED AS PERMANENT.

PROPOSED RIPARIAN BUFFER
SECTION TOTAL: 37.1 AC



MATCHLINE - SEE SHEET C2.10

MATCHLINE - SEE SHEET C2.13

LEGEND

PROPERTY LINE

ACCESS ROAD

SURVEYED WETLANDS

PROPOSED SKI RUN

PROPOSED GOLF COURSE

PROPOSED SKI LIFT

PROPOSED DEVELOPMENT

PROPOSED 50' RIPARIAN BUFFER

EPHEMERAL STREAM

INTERMITTENT STREAM

PERENNIAL STREAM

PROPOSED HIGH WATER MARK (TOWING)

MAN MADE DIVERSION

LIMITS OF DISTURBANCE

PROL. STREAM IMPACT

PROL. MAN-MADE DIVERSION IMPACT

PROL. WETLAND IMPACT

PROP. ARTERIAL ROAD

PROPOSED GAS LINE

E - E

PROPOSED ELEC. LINE

IRR - IRR

PROPOSED IRR. LINE

W - W

PROPOSED WATER LINE

SS - SS

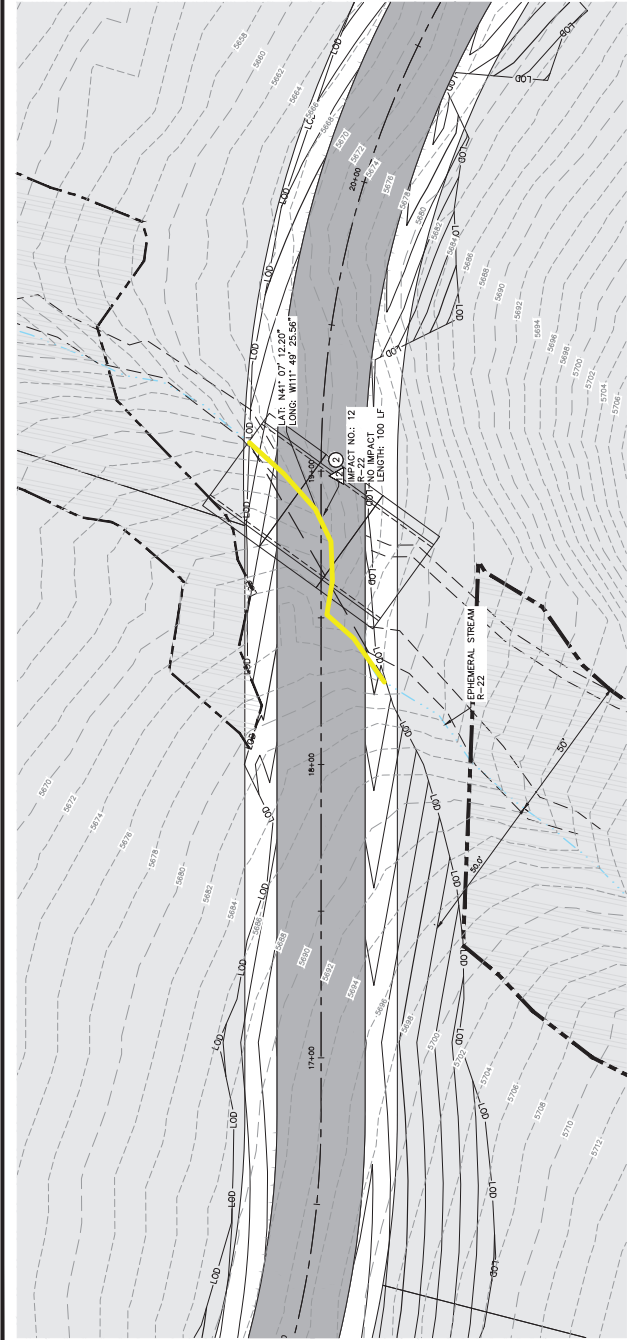
PROPOSED SEWER LINE

KEY NOTES

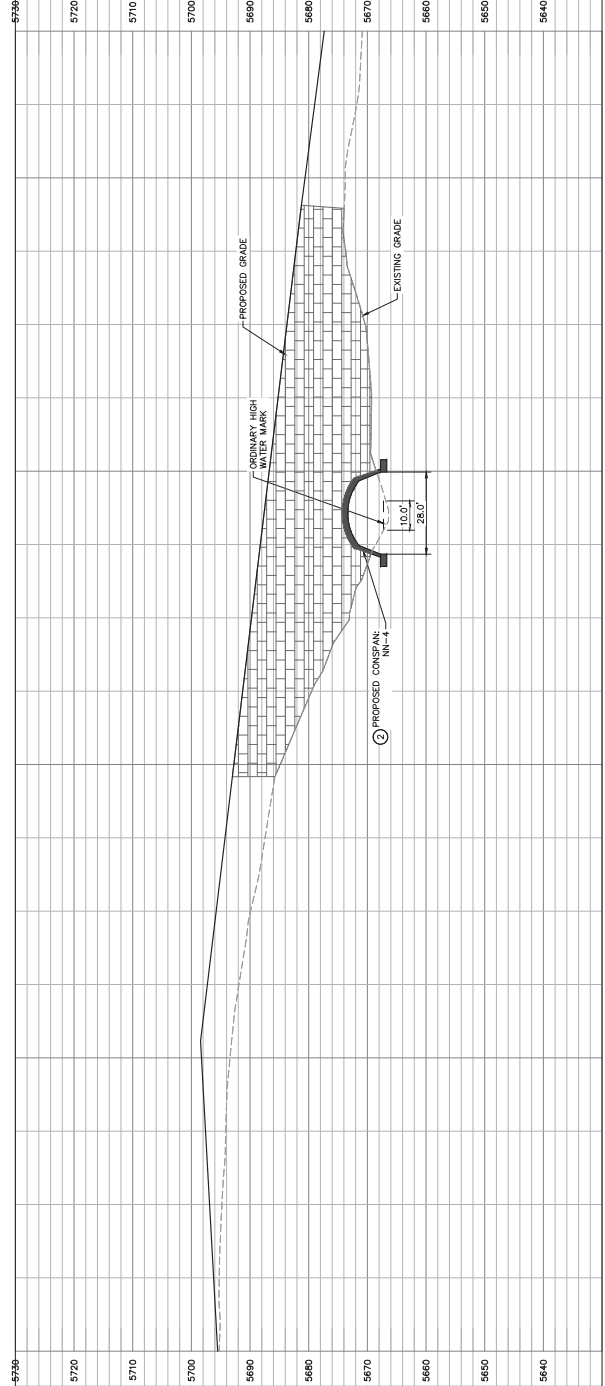
1 PROPOSED ROP CULVERT WITH 12" DIAMETER AND 10' DEPTH. FLARED END SECTION (FES) AND RIP RAP. SIZE PER PLAN.

2 PROPOSED CONSPAN O-SERIES 12" DIAMETER. SEE DETAILS.

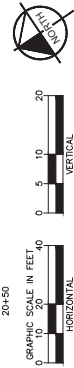
CREEK IMPACT NUMBER #12
IMPACT LENGTH (LF)
IMPACT WIDTH (LF)
IMPACT FOOTPRINT (SF)
FILL BELOW OHWM (CY)



PLAN VIEW



PROFILE VIEW



LEGEND

PROPERTY LINE

ACCESS ROAD

SURVEYED WETLANDS

PROPOSED SKI RUN

PROPOSED GOLF COURSE

PROPOSED DEVELOPMENT

PROPOSED 50' RIPARIAN BUFFER

EPHEMERAL STREAM

INTERMITTENT STREAM

PERENNIAL STREAM

PROPOSED HIGH WATER MARK (TOWN)

MAN MADE DIVERSION

LIMITS OF DISTURBANCE

PROL. STREAM IMPACT

PROL. MAN-MADE DIVERSION IMPACT

PROL. WETLAND IMPACT

PROP. ARTERIAL ROAD

PROPOSED GAS LINE

E - E

PROPOSED ELEC. LINE

IRR - IRR

PROPOSED IRR. LINE

W - W

PROPOSED WATER LINE

SS - SS

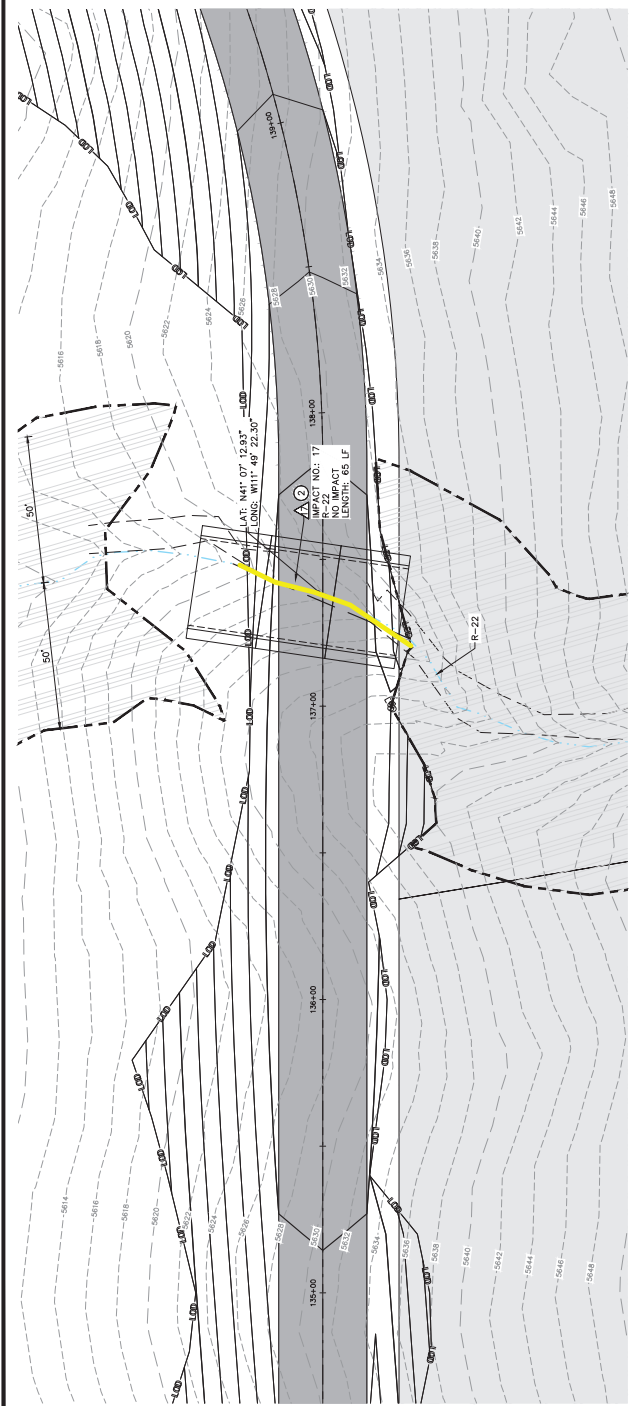
PROPOSED SEWER LINE

KEY NOTES

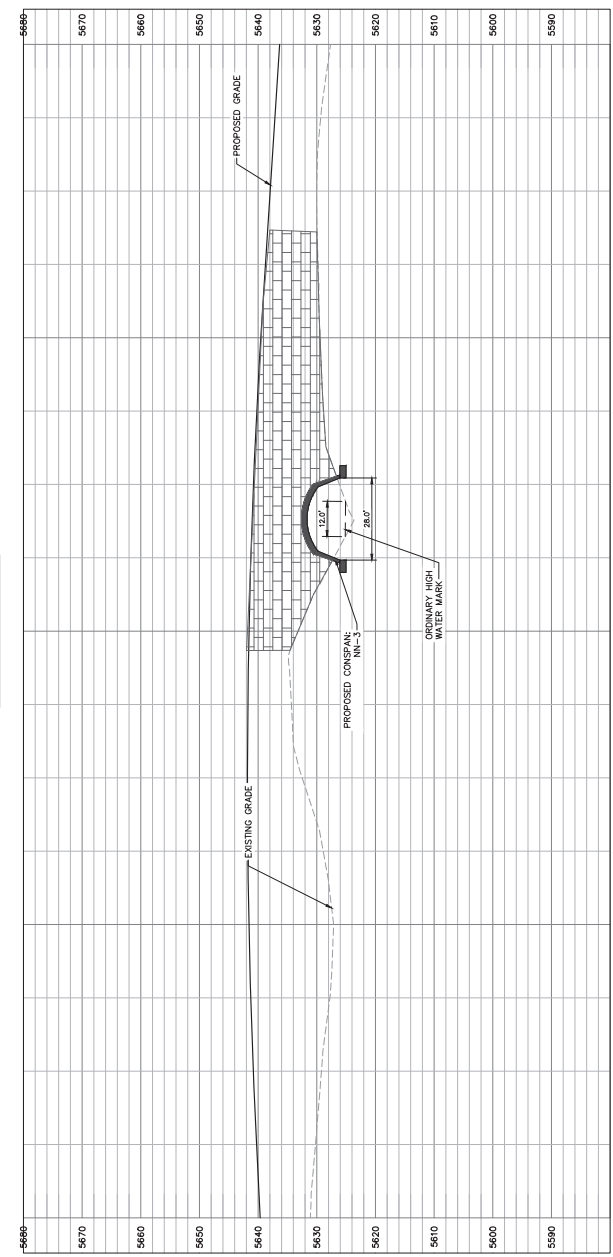
1 PROPOSED RCP CULVERT WITH 12" DRAINAGE MANHOLE, 12" DRAINAGE PIPING, FLARED END SECTION (FES) AND RIP RAP. SIZE PER PLAN.

2 PROPOSED CONSPAN 0-SERIES CULVERT. SEE TABLE FOR DETAILS. DIMENSION PER PLAN.

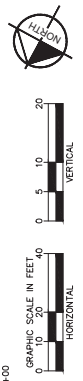
CREEK IMPACT NUMBER #17	
IMPACT LENGTH (LF)	65
IMPACT WIDTH (LF)	12
IMPACT FOOTPRINT (SF)	780
FILL BELOW OHWM (CY)	0



PLAN VIEW



PROFILE VIEW



LEGEND

PROPERTY LINE

ACCESS ROAD

SURVEYED WETLANDS

PROPOSED SKI RUN

PROPOSED GOLF COURSE

PROPOSED SKI LIFT

PROPOSED DEVELOPMENT

PROPOSED 50' RIPARIAN BUFFER

EPHEMERAL STREAM

INTERMITTENT STREAM

PERENNIAL STREAM

APPROX. ORDINARY HIGH WATER MARK (TOWN)

MAN MADE DIVERSION

LIMITS OF DISTURBANCE

PROL. STREAM IMPACT

PROL. MAN-MADE DIVERSION IMPACT

PROL. WETLAND IMPACT

PROP. ARTERIAL ROAD

PROPOSED GAS LINE

PROPOSED ELEC. LINE

PROPOSED IRR. LINE

PROPOSED WATER LINE

PROPOSED SEWER LINE

KEY NOTES

1. PROPOSED RCP CULVERT WITH 15' MIN. COVER AND 15' MIN. STREAM FLARED END SECTION (FES) AND RIP RAP SIZE PER PLAN.

2. PROPOSED CONSPAN 0-SERIES 15' MIN. COVER AND 15' MIN. STREAM FLARED END SECTION (FES) AND RIP RAP SIZE PER PLAN.

CREEK IMPACT NUMBER #27	
IMPACT LENGTH (LF)	50
IMPACT WIDTH (LF)	75
IMPACT FOOTPRINT (SF)	1,350
FILL BELOW OHWM (CY)	0

DATE: 3/17/2020 9:20 AM
User: SEAN.MS.DRUE
Print: R:\VLC\DWG\096360005 - IMPACT\PLAN SHEETS\12.12A IMPACTS PLAN AND PROFILE.DWG

IMPACT PLAN AND PROFILE
WASATCH PEAKS RANCH
MORGAN COUNTY, UTAH

PROJECT No.:
SHEET
C2.12.D

NOT FOR CONSTRUCTION

SCALE:
AS SHOWN

DESIGNED BY:
DMS

CHECKED BY:
ZAJ

DRAWN BY:
ZAJ

Kimley-Horn

215 South State Street, Suite 100, Salt Lake City, UT 84111 | Tel. 801.222.2176

DESCRIPTION	DATE	
-------------	------	--

NOT FOR
CONSTRUCTION

SEAL

DRAWN BY: _____
DESIGNED BY: _____
CHECKED BY: _____
PROJECT NO. _____

IMPACT PLAN AND PROFILE

Kimley»Horn
215 South State Street, Suite 400 | Salt Lake City, UT 84111 | Tel. No. (385) 212-3176

ON

DESCRIPTION	DATE	
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LEGEND

- [illegible]

KEY NOTES

- ① PROPOSED RCP CULVERT WITH UPSTREAM HEADWALL AND DOWNSTREAM FLARED END SECTION (FES) AND RIP RAP. SIZE PER PLAN.
- ② PROPOSED CONSPAN O-SERIES CONCRETE SPAN. SEE DETAILS, DIMENSION PER PLAN.

CREEK IMPACT NUMBER #31	
IMPACTS LENGTH (LF)	95
IMPACT WIDTH (LF)	15
IMPACT FOOTPRINT (SF)	1,425
FILL BELOW OHMM (CF)	985

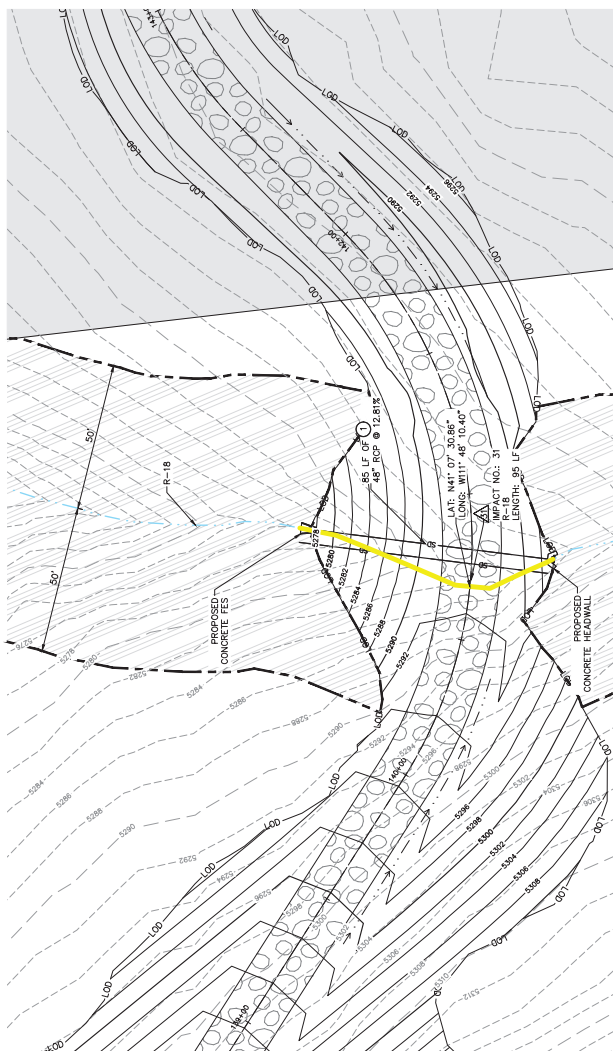
ORDINARY HIGH WATER MARK IS LOCATED BASED OFF TYPICAL DIMENSIONS FROM SIMILAR OHWM DATA OBTAINED IN THE FIELD.



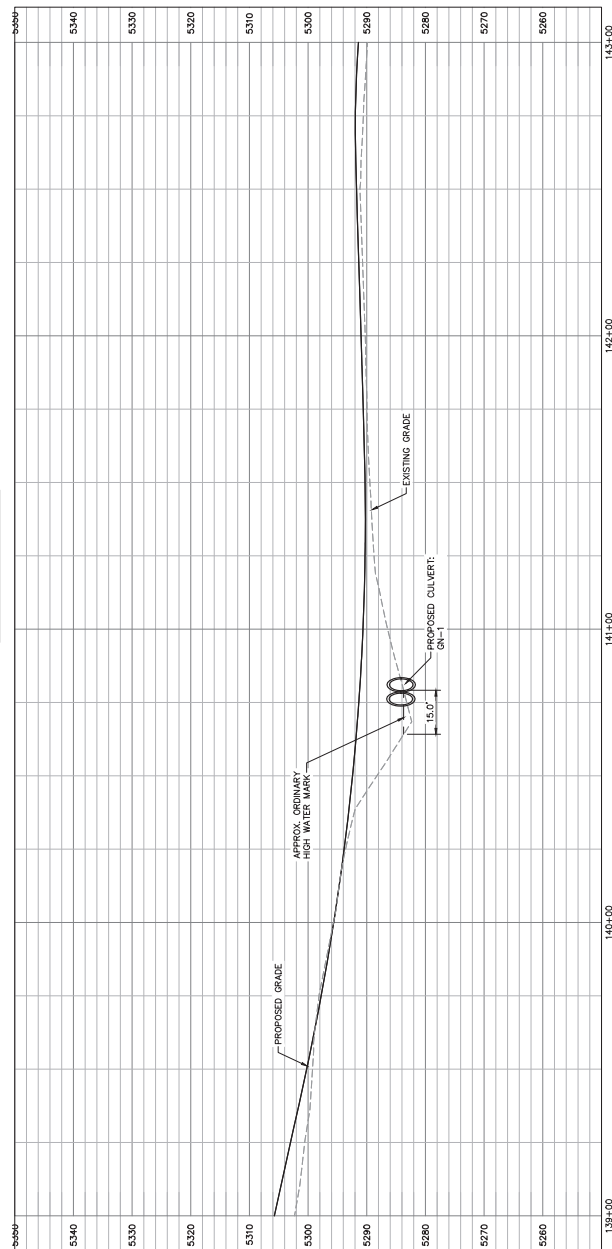
GRAPHIC SCALE IN FEET

HORIZONTAL

VERTICAL



PLAN VIEW



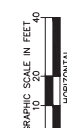
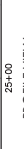
PROFILE VIEW

GRAPHIC SCALE IN FEET

HORIZONTAL: 0, 10, 20, 40

VERTICAL: 0, 5, 10, 20





LEGEND

PROPERTY LINE

ACCESS ROAD

SURVEYED WETLANDS

PROPOSED SKI RUN

PROPOSED GOLF COURSE

PROPOSED SKI LIFT

PROPOSED DEVELOPMENT

PROPOSED 50' RIPARIAN BUFFER

EPHEMERAL STREAM

PERENNIAL STREAM

PERMANENT HIGH WATER MARK (TOWN OF MORGAN)

MAN MADE DIVERSION

LIMITS OF DISTURBANCE

PROL. STREAM IMPACT

PROL. MAN-MADE DIVERSION IMPACT

PROL. WETLAND IMPACT

PROP. ARTERIAL ROAD

PROPOSED GAS LINE

PROPOSED ELEC. LINE

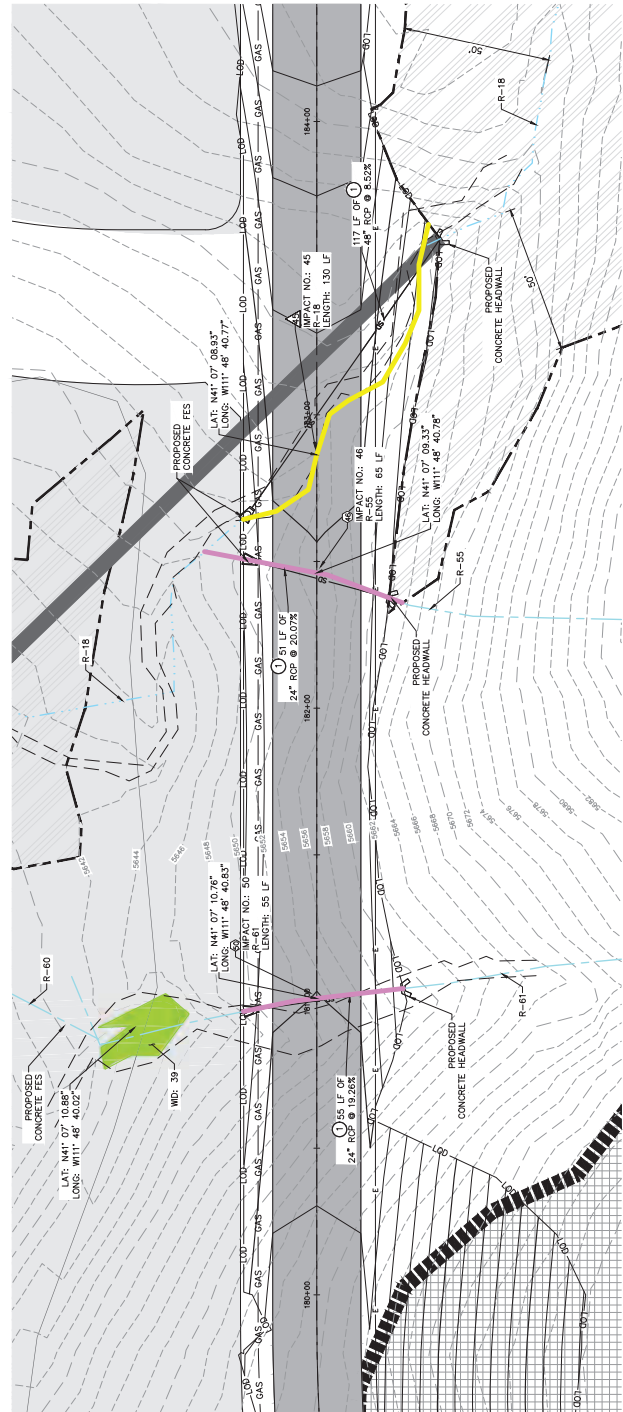
PROPOSED IRR. LINE

PROPOSED WATER LINE

PROPOSED SEWER LINE

1 PROPOSED RCP CULVERT WITH 12" DRAINAGE MANHOLE FLARED END SECTION (FES) AND RIP RAP SIZE PER PLAN.

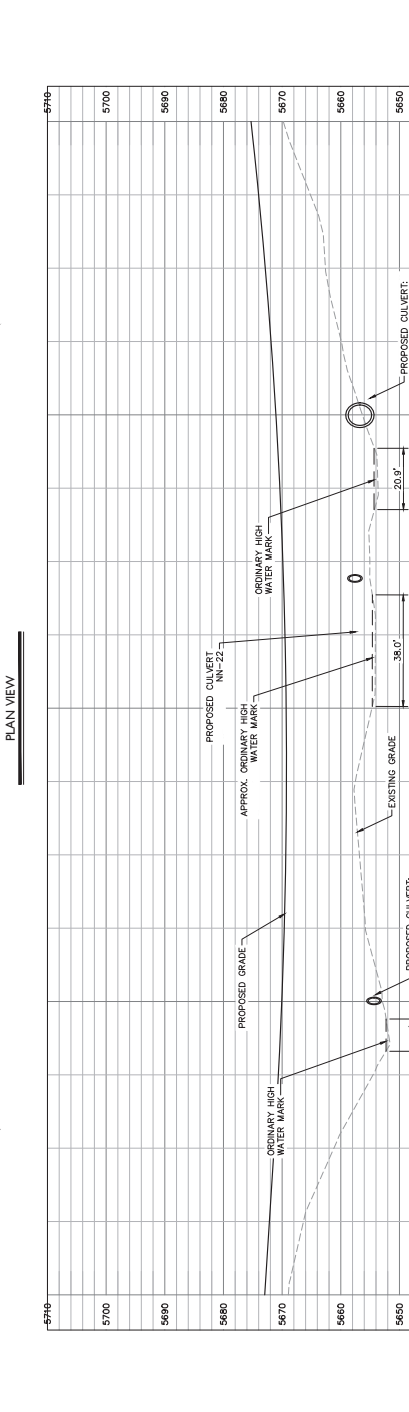
2 PROPOSED CONSPAN O-SERIES PRECAST CONCRETE DETAILS. DIMENSION PER PLAN.



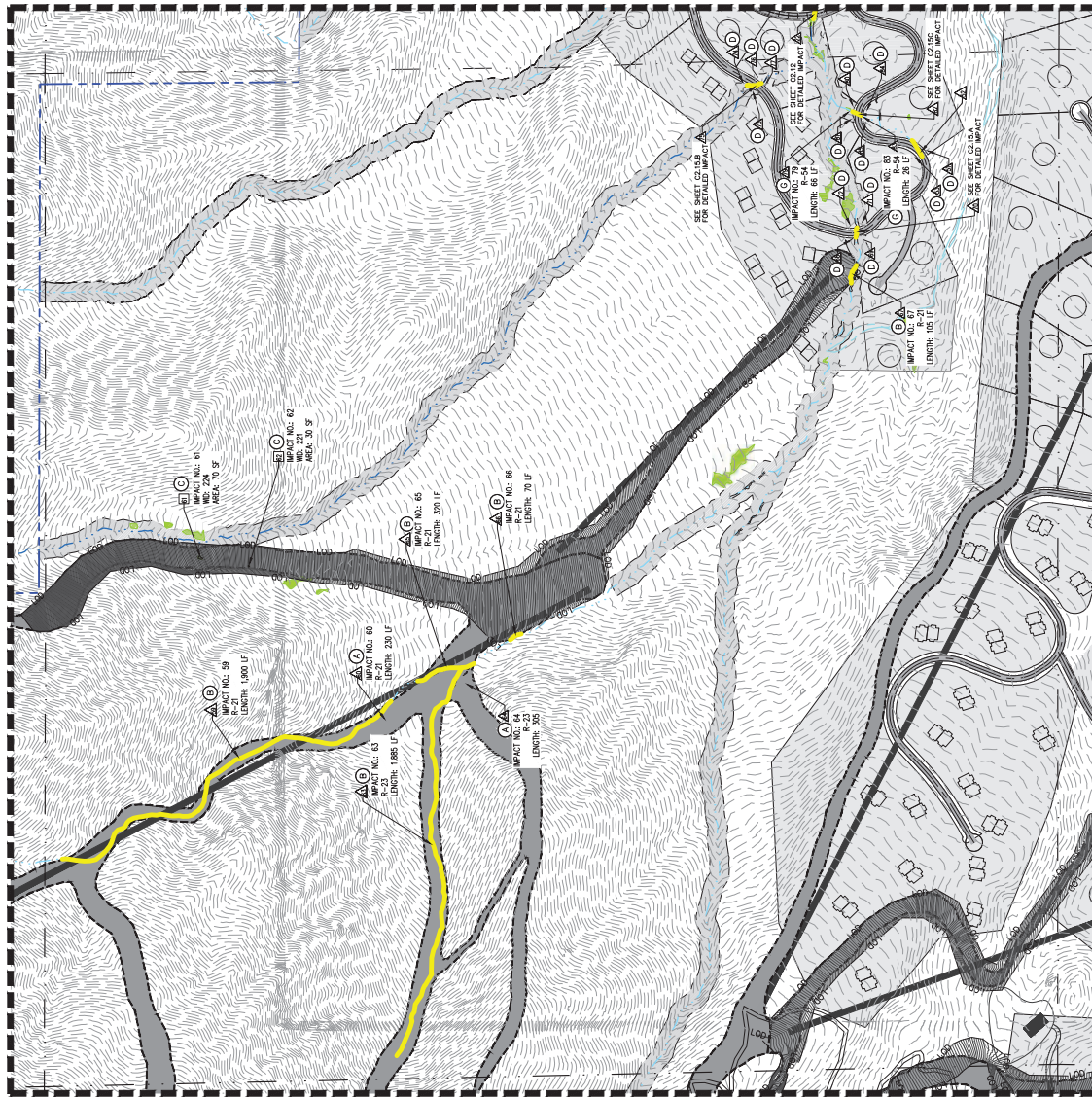
CREEK IMPACT NUMBER #45	
IMPACTS LENGTH (LF)	130
IMPACT WIDTH (LF)	20.9
IMPACT FOOTPRINT (SF)	2,717
FILL BELOW OHWM (CF)	1,700

MMD IMPACT NUMBER #46	
IMPACTS LENGTH (LF)	65
IMPACT WIDTH (LF)	38
IMPACT FOOTPRINT (SF)	2,470
FILL BELOW OHWM (CF)	1,056

MMD IMPACT NUMBER #50	
IMPACTS LENGTH (LF)	135
IMPACT WIDTH (LF)	11
IMPACT FOOTPRINT (SF)	1,485
FILL BELOW OHWM (CF)	520



MATCHLINE - SEE SHEET C2 14



MATCHLINE - SEE SHEET C2 20

MATCHLINE - SEE SHEET C2 16

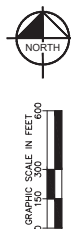
LEGEND

PROPERTY BOUNDARY	ACCESS ROAD
SKI RUNS	PROPOSED SKI LIFT
DEVELOPMENT AREAS	PROPOSED GOLF COURSE
SURVEYED WETLANDS	PROPOSED 50' RIPARIAN BUFFER
EPHEMERAL CREEK	PERENNIAL CREEK
INTERMITTENT CREEK	ORDINARY HIGH WATER MARK (OHWM)
MAN-MADE DIVERSION	NEW/OLD CANAL
LIMITS OF DISTURBANCE	PROJECTED CREEK IMPACT
PROJECTED MAN-MADE DIVERSION IMPACT	PROJECTED WETLAND IMPACT
PROPOSED ARTERIAL ROAD	PROPOSED GAS LINE
PROPOSED ELECTRICAL LINE	PROPOSED IRRIGATION LINE
PROPOSED WATER LINE	PROPOSED SEWER LINE
CREEK IMPACT NUMBER	WETLAND IMPACT NUMBER
MAN MADE DIVERSION IMPACT NUMBER	

KEY NOTES

- SEE DETAIL 2 SHEET C2.0 FOR PROPOSED DESIGN CROSS SECTION. THE PROPOSED DESIGN CROSS SECTION WILL RESULT IN PERMANENT IMPACTS TO STREAMS, WETLANDS, AND OTHER NATURAL RESOURCES. THE PROPOSED DESIGN CROSS SECTION FOR CREEK RELOCATION IS CLASSIFIED AS TEMPORARY IMPACT.
- RELOCATION OF CREEK IS CLASSIFIED AS TEMPORARY IMPACT. THE PROPOSED DESIGN CROSS SECTION FOR CREEK RELOCATION IS CLASSIFIED AS TEMPORARY IMPACT.
- SECTION FOR SPONG OVER WETLANDS (BY OTHERS) (GRADE WILL MATCH EXISTING AND IS CLASSIFIED AS NO IMPACT).
- DETAIL OUTFALL WILL BE LOCATED ABOVE ORDINARY HIGH WATER MARK AND IS CLASSIFIED AS NO IMPACT.
- SECTION BRIDGE TO BE DESIGNED TO SPAN ORDINARY HIGH WATER MARK AND IS CLASSIFIED AS NON-JURISDICTIONAL IMPACT. BRIDGE TO BE DESIGNED TO SPAN ORDINARY HIGH WATER MARK AND IS CLASSIFIED AS NON-JURISDICTIONAL IMPACT.
- SEE DETAIL 3 SHEET C2.1 FOR TYPICAL CREEK RELOCATION AND PROTECTION DETAIL.
- SEE DETAIL 3 SHEET C2.1 FOR TYPICAL CREEK RELOCATION AND PROTECTION DETAIL.
- UTILITY LINE TO BE INSTALLED VIA HORIZONTAL DIRECTIONAL DRILLING (HDD) UNDER CREEK OR WETLAND. IMPACT TYPE ANTICIPATED AS NO IMPACT.

PROPOSED RIPARIAN BUFFER
SECTION TOTAL 54.1 AC



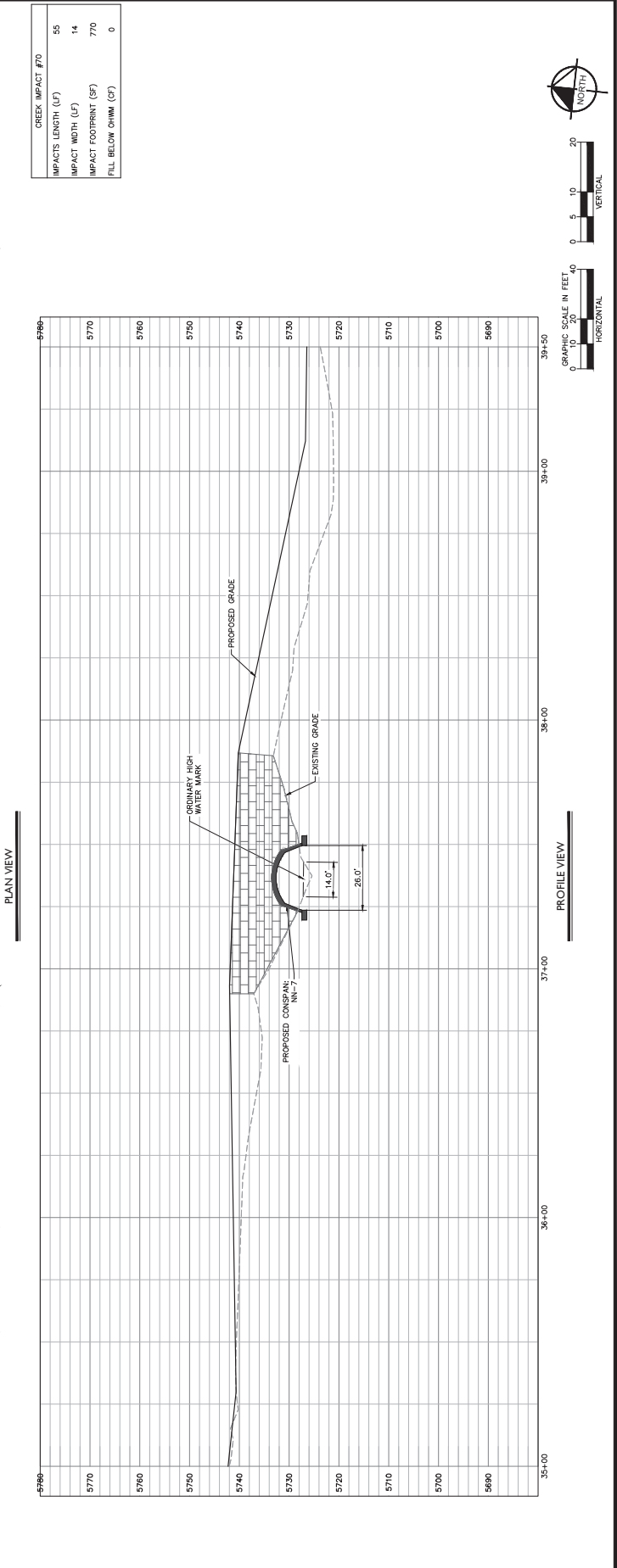
NOT FOR
CONSTRUCTION

SHEET
C2.15

SECTION PROPOSED
WASATCH PEAKS RANCH
MORGAN COUNTY, UTAH

Kimley-Horn
215 South State Street, Suite 200, Salt Lake City, UT 84111 | Tel. 801.224.2176

DRAWN BY: DMS
DESIGNED BY: BSI
CHECKED BY: ZAL
PROJECT NO.: 090360005
SCALE: AS SHOWN



This diagram illustrates a cross-section of a bridge structure. The vertical axis on the left is labeled with elevations from 5650 to 5740 in increments of 10. The horizontal axis represents the bridge's profile. Key features include:

- PROPOSED GRADE:** Indicated by a dashed line along the bridge's length.
- EXISTING GRADE:** Indicated by a solid line along the bridge's length.
- PROPOSED CULSPAN:** A semi-circular structure shown in cross-section, with a width of 32.0' and a height of 38.5'.
- ORDINARY HIGH WATER MARK:** A horizontal line indicating the water level, positioned above the culspan structure.



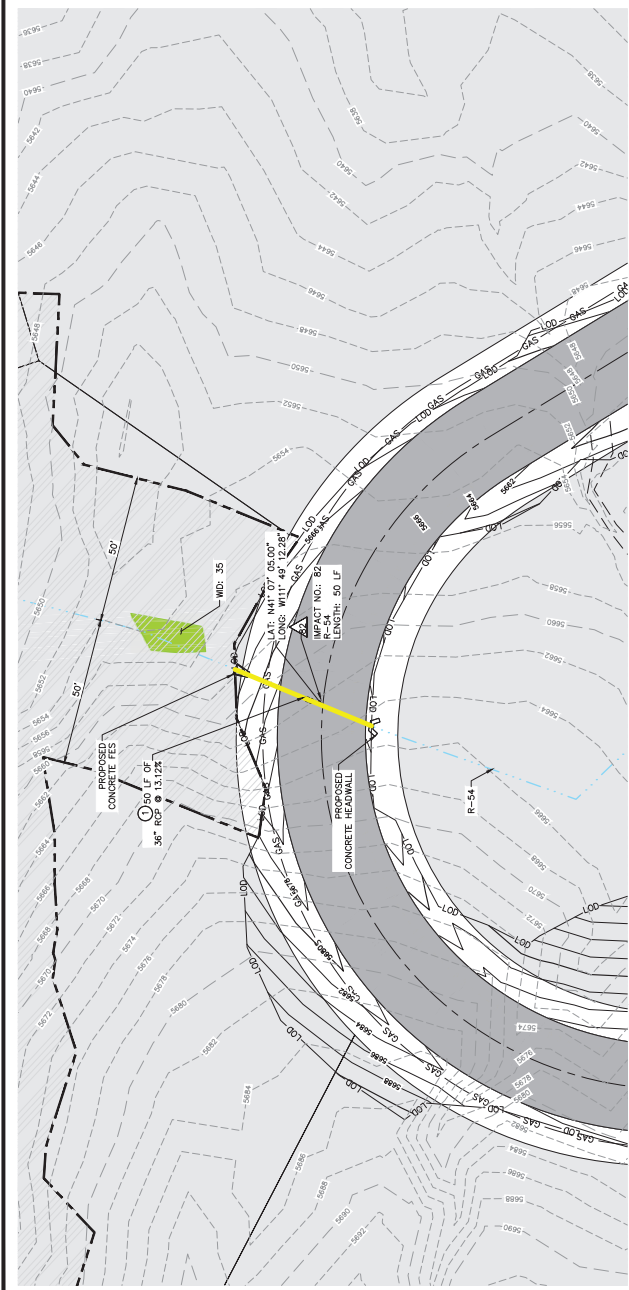
LEGEND

- PROPERTY LINE
- ACCESS ROAD
- SURVEYED WETLANDS
- PROPOSED SKI RUN
- PROPOSED GOLF COURSE
- PROPOSED SKI LIFT
- PROPOSED DEVELOPMENT
- PROPOSED 50' RIPARIAN BUFFER
- EPHEMERAL STREAM
- PERENNIAL STREAM
- WETLAND HIGH WATER MARK (TOWING)
- MAN MADE DIVERSION
- LIMITS OF DISTURBANCE
- PROL. STREAM IMPACT
- PROL. MAN-MADE DIVERSION IMPACT
- PROL. WETLAND IMPACT
- PROP. ARTERIAL ROAD
- PROPOSED GAS LINE
- PROPOSED ELEC. LINE
- PROPOSED IRR. LINE
- PROPOSED WATER LINE
- PROPOSED SEWER LINE

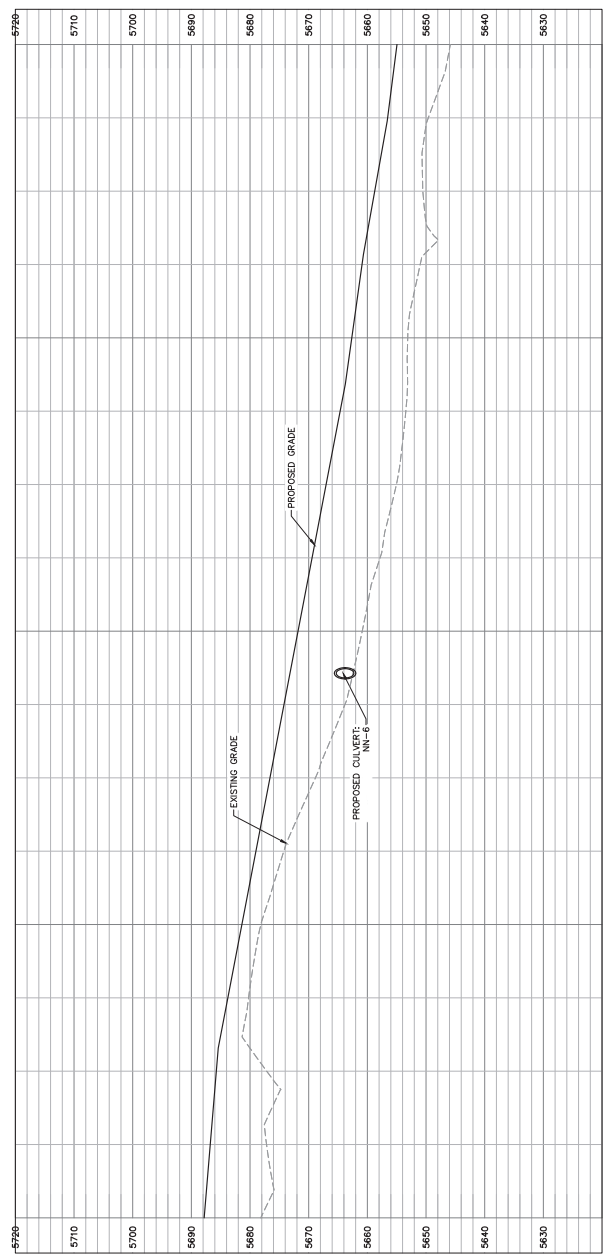
KEY NOTES

- PROPOSED ROP CULVERT WITH 36" RCP @ 13.12% SLOPE. SEE PLAN SHEET C2.15B FOR STREAM PLANNED END SECTION (FES) AND RIP RAP SIZE PER PLAN.
- PROPOSED CONSPAN O-SERIES CULVERT. SEE PLAN SHEET C2.15B FOR DETAILS. DIMENSION PER PLAN.

CREEK IMPACT #82	
IMPACT LENGTH (LF)	50
IMPACT WIDTH (LF)	15
IMPACT FOOTPRINT (SF)	750
FILL BELOW OHWM (CY)	XX

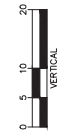


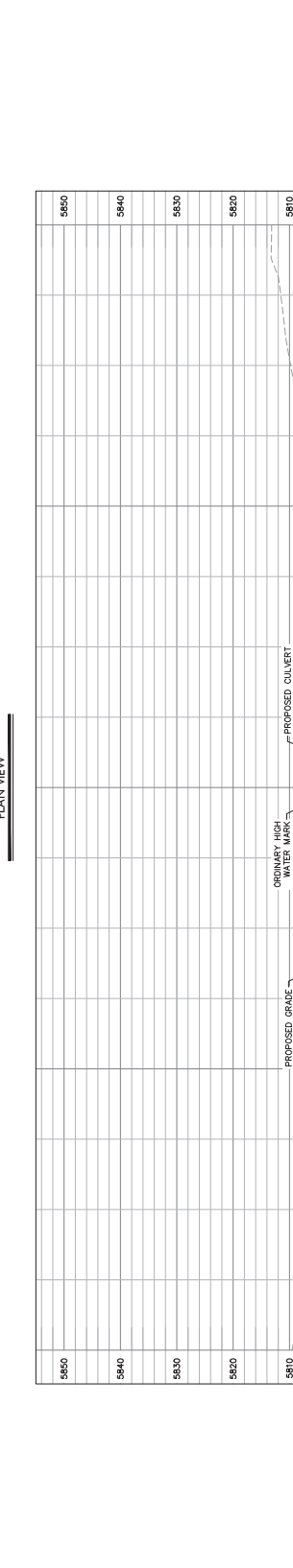
PLAN VIEW



PROFILE VIEW

ORDINARY HIGH WATER MARK IS LOCATED FROM THE PROPOSED IMPACT. DATA OBTAINED IN THE FIELD.





SEAL

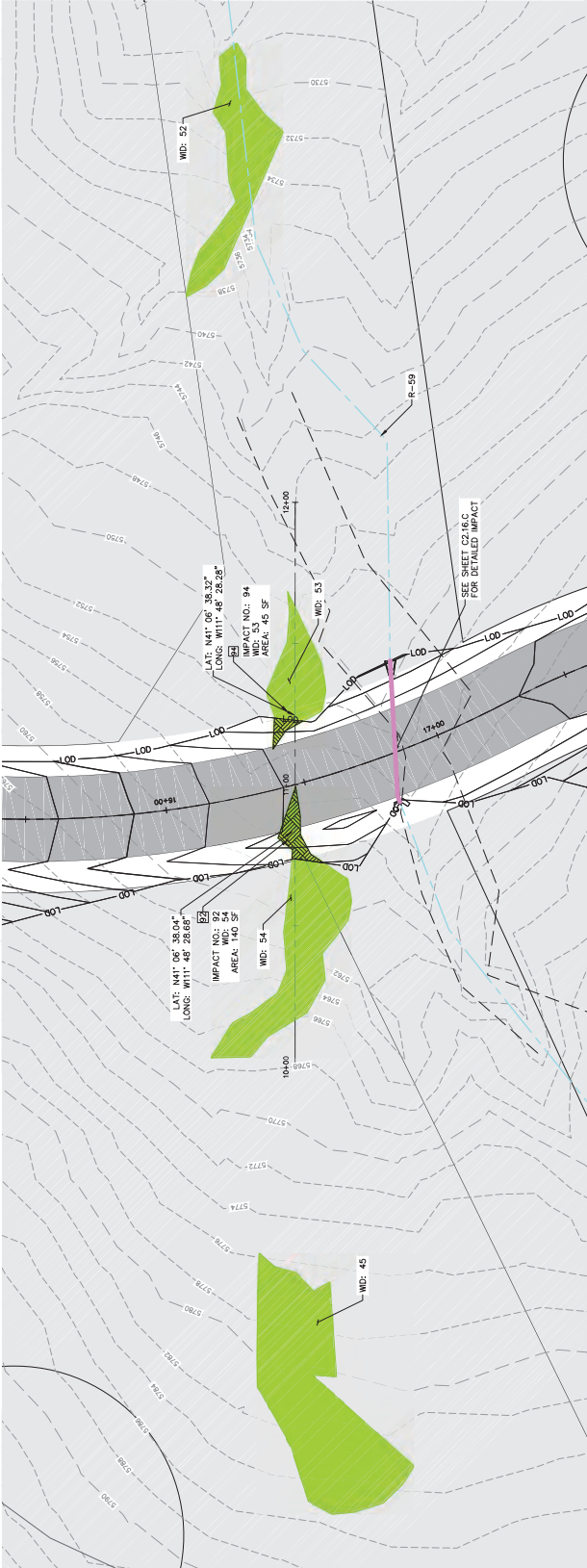
PROJECT No.: 096360005	SCALE: AS SHOWN
DRAWN BY: DMS	
DESIGNED BY: BS	
CHECKED BY: ZAJ	

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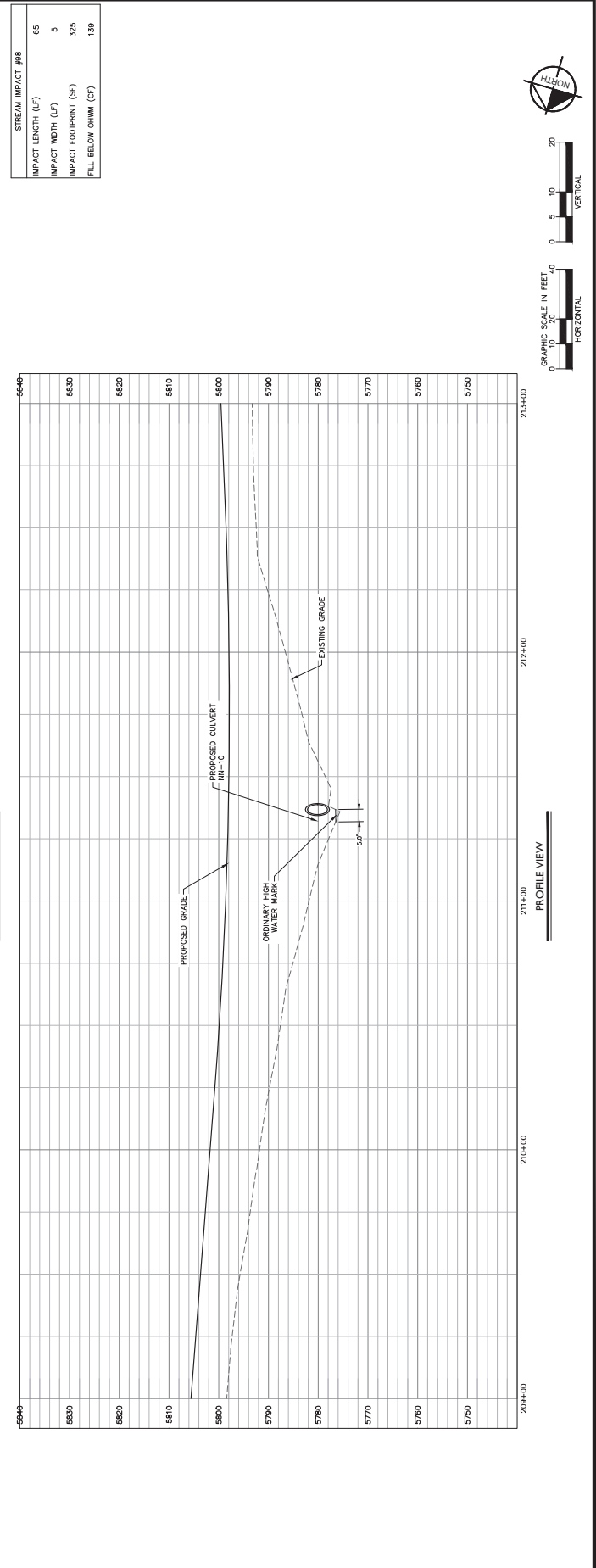
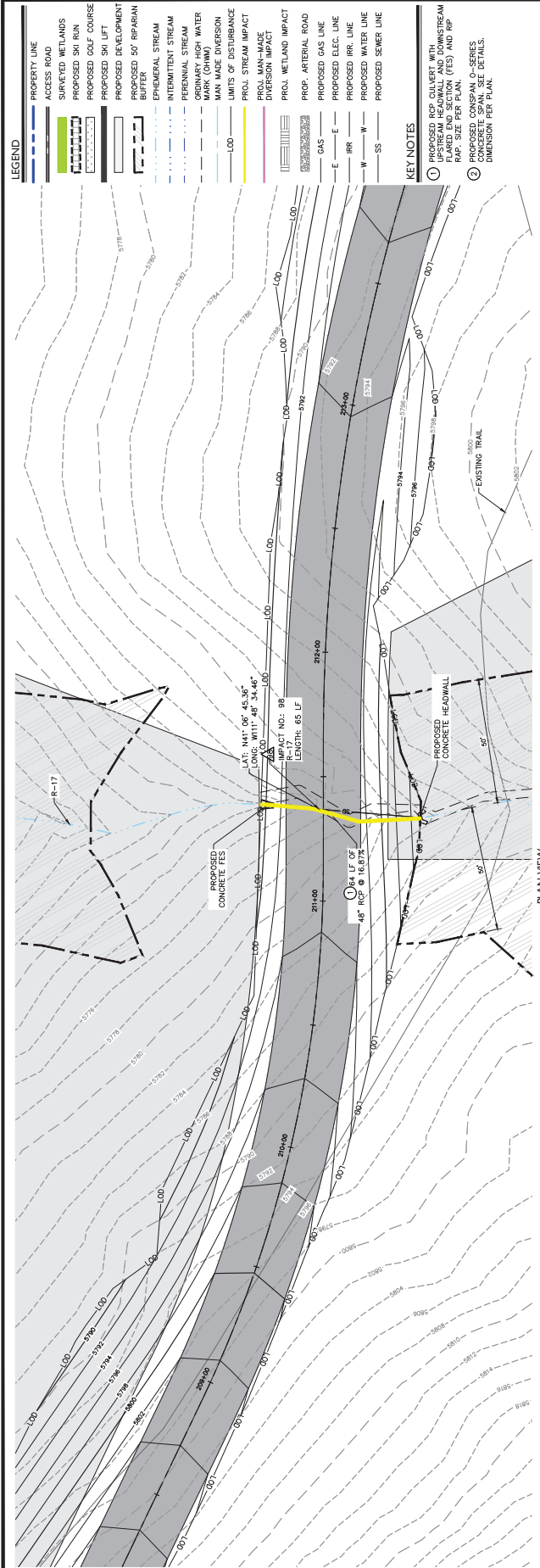
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	PROPERTY LINE		ACCESS ROAD		SURVEYED WETLANDS		PROPOSED SKI RUN		PROPOSED GOLF COURSE		PROPOSED SKI LIFT		PROPOSED DEVELOPMENT BUFFER		PROPOSED 80' RIPARIAN BUFFER		EPIHEMAL STREAM		PERENNIAL STREAM		ORDINARY HIGH-WATER MARK (CHWM)		WATER DIVERSION		LIMIT OF DISTURBANCE		PROL. STREAM IMPACT		PROL. STREAM IMPACT DIVERSION IMPACT		PROL. WETLAND IMPACT		PROP. ARTIFICIAL GAS LINE		PROPOSED ELEC. LINE		PROPOSED IRR. LINE		PROPOSED WATER LINE		PROPOSED SEWER LINE
--	---------------	--	-------------	--	-------------------	--	------------------	--	----------------------	--	-------------------	--	-----------------------------	--	------------------------------	--	-----------------	--	------------------	--	---------------------------------	--	-----------------	--	----------------------	--	---------------------	--	--------------------------------------	--	----------------------	--	---------------------------	--	---------------------	--	--------------------	--	---------------------	--	---------------------

- ① PROPOSED RCP CULVERT WITH UPSTREAM HEADWALL AND DOWNSTREAM FLARED END SECTION (FES) AND RIP RAP. SIZE PER PLAN.
- ② PROPOSED CONSPAN O-SERIES CONCRETE SPAN. SEE DETAILS. DIMENSION PER PLAN.



PROFILE VIEW



155

DRAWN BY: _____
 DESIGNED BY: _____
 CHECKED BY: _____
 PROJECT NO.: _____
 09636000

IMPACT PLAN AND PROFILE

Kimley»Horn
115 South State Street, Suite 400 | Salt Lake City, UT 84111 | Tel. No. (385) 212-3178

DESCRIPTION	DATE	
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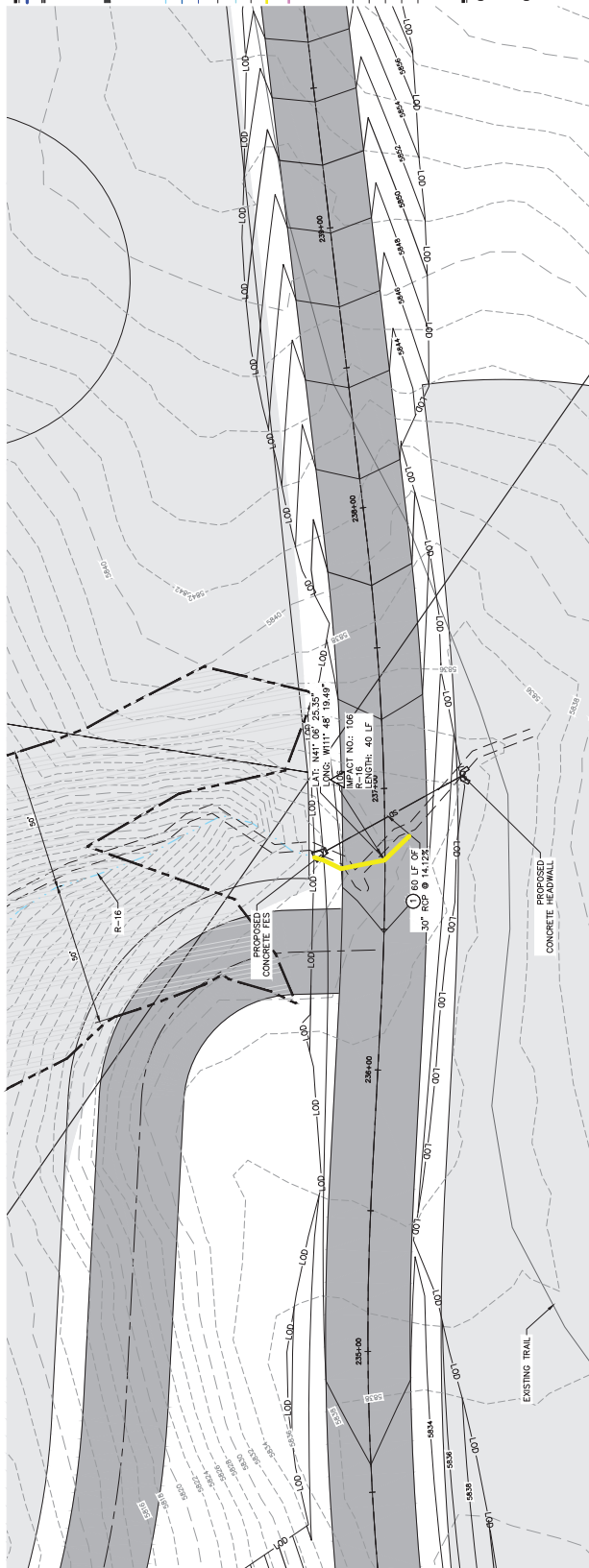
LEGEND

- | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|-------------|-------------------|------------------|----------------------|-------------------|----------------------|------------------------------|------------------|---------------------|------------------|---------------------------------|-----------------|-----------------------|---------------------|-------------------|------------------------------|----------------------|---------------------|-------------------|---------------------|--------------------|---------------------|---------------------|
| PROPERTY LINE | ACCESS ROAD | SURVAYED WETLANDS | PROPOSED SKI RUN | PROPOSED GOLF COURSE | PROPOSED SKI LIFT | PROPOSED DEVELOPMENT | PROPOSED 50' RIPARIAN BUFFER | EPHEMERAL STREAM | INTERMITTENT STREAM | PERENNIAL STREAM | ORDINARY HIGH WATER MARK (OHWM) | MAJOR DIVERSION | LIMITS OF DISTURBANCE | PROJ. STREAM IMPACT | PROJ. ROAD IMPACT | PROJ. WADSWORTH CREEK IMPACT | PROJ. WETLAND IMPACT | PROP. ARTERIAL ROAD | PROPOSED GAS LINE | PROPOSED ELEC. LINE | PROPOSED IRR. LINE | PROPOSED POWER LINE | PROPOSED WATER LINE |
| --- | --- | | | | | | | | | | | | | | | | | | | | | | |

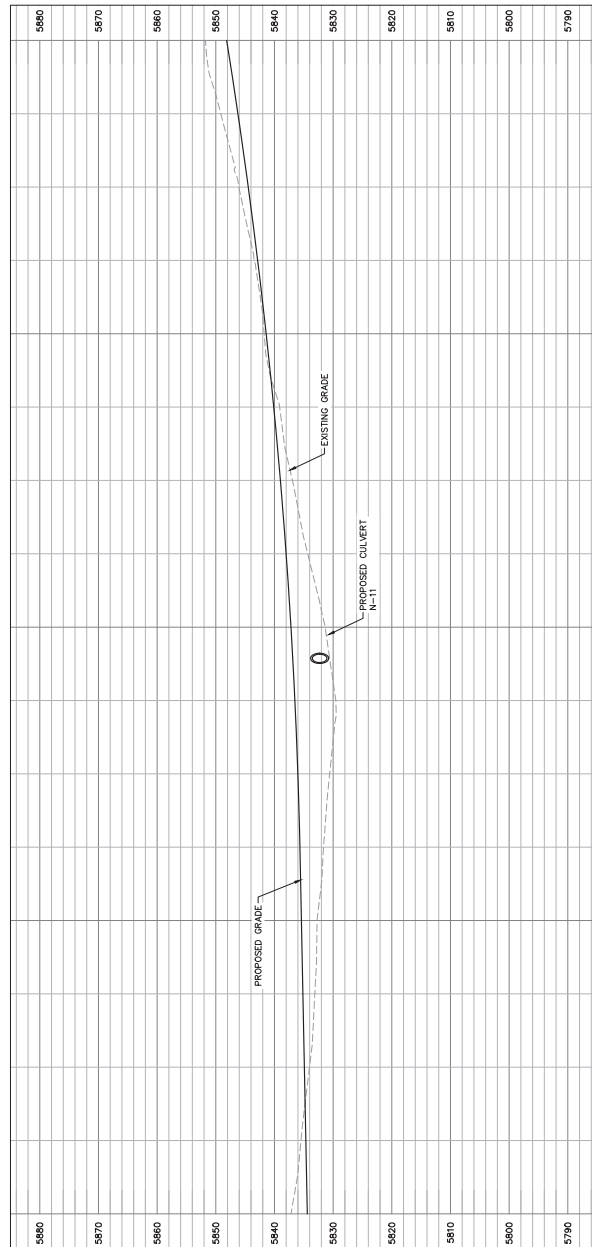
KEY NOTES

- 1 PROPOSED RCP CULVERT WITH UPSTREAM HEADWALL AND DOWNSTREAM FLARED END SECTION (FES) AND RIP RAP, SIZE PER PLAN.
- 2 PROPOSED CONSPAN O-SERIES CONCRETE SPAN. SEE DETAILS, DIMENSION PER PLAN.

STREAM IMPACT #106	
IMPACT LENGTH (LF)	40
IMPACT WIDTH (LF)	3
IMPACT FOOTPRINT (SF)	120
FILL BELOW CHWM (CF)	XX



PLAN VIEW



PROFILE VIEW

NOT FOR
CONSTRUCTION

SEAL

DRAWN BY: _____
DESIGNED BY: _____
CHECKED BY: _____
PROJECT NO. _____
096360

DMS			
:			
BS			
:			
ZAJ			
:			
SCALE:			
AS SHOWN			

IMPACT PLAN AND PROFILE

Kimley»Horn
1715 South State Street, Suite 400 | Salt Lake City, UT 84111 | Tel. No. (385) 212-3176

DESCRIPTION	DATE	
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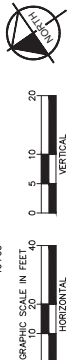
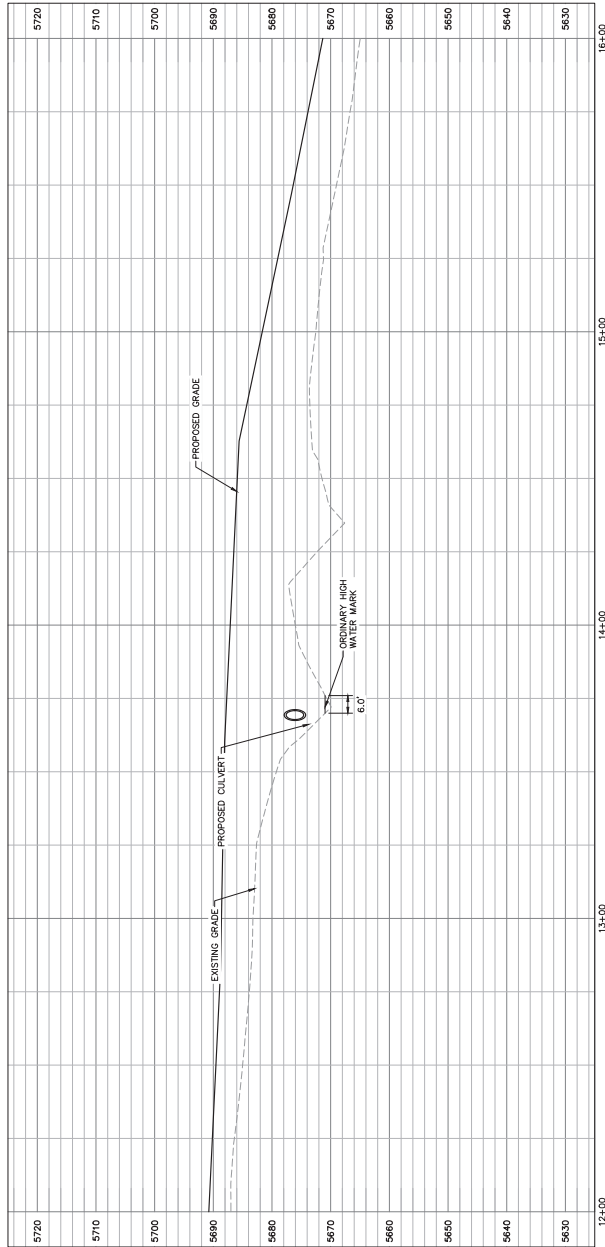
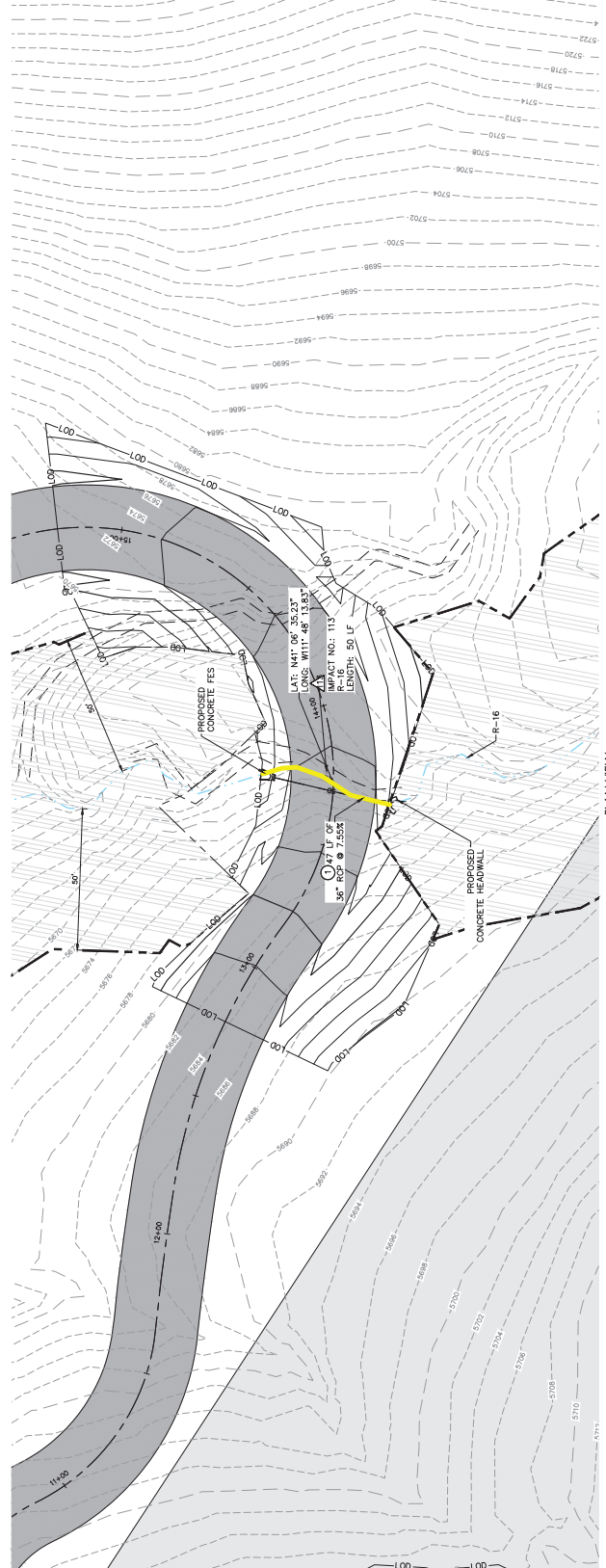
LEGEND	
	PROPERTY LINE
	ACCESS ROAD
	SURVEYED WETLANDS
	PROPOSED SR RUN
	PROPOSED GOLF COURSE
	PROPOSED SR LIFT
	PROPOSED DEVELOPMENT
	PROPOSED 50' RIPARIAN BUFFER
	PERENNIAL STREAM
	INTERMITTENT STREAM
	PERENNIAL STREAM
	WATER
	MAN MADE DIVERSION MARK (OHM)
	WATER DIVERSION
	LIMITS OF DISTURBANCE
	PROJ. STREAM IMPACT
	PROJ. MAN-MADE DIVERSION IMPACT
	PROJ. WETLAND IMPACT
	PROP. ARTERIAL ROAD
	PROPOSED GAS LINE
	PROPOSED ELEC. LINE
	PROPOSED IRR. LINE
	PROPOSED WATER LINE
	PROPOSED SEWER LINE
	SS

KEY NOTES

1 PROPOSED RCP CULVERT WITH
UPSTREAM HEADWALL AND DOWNSTREAM
FLARED END SECTION (FES) AND RIP
RAP. SIZE PER PLAN.

2 PROPOSED CONSPAN O-SERIES
CONCRETE SPAN. SEE DETAILS,
DIMENSION PER PLAN.

CREEK IMPACT #113	
IMPACT LENGTH (LF)	50
IMPACT WIDTH (LF)	6
IMPACT FOOTPRINT (SF)	300
FILL BELOW CHWM (CF)	158



LEGEND

PROPERTY LINE

ACCESS ROAD

SURVEYED WETLANDS

PROPOSED SKI RUN

PROPOSED GOLF COURSE

PROPOSED SKI LIFT

PROPOSED DEVELOPMENT

PROPOSED 50' RIPARIAN BUFFER

EPHEMERAL STREAM

INTERMITTENT STREAM

PERENNIAL STREAM

WETLANDS

WATER MARK (TOWN)

MAN MADE DIVERSION

LIMITS OF DISTURBANCE

PROL. STREAM IMPACT

PROL. MAN-MADE DIVERSION IMPACT

PROL. WETLAND IMPACT

PROP. ARTERIAL ROAD

PROPOSED GAS LINE

PROPOSED ELEC. LINE

PROPOSED IRR. LINE

PROPOSED WATER LINE

PROPOSED SEWER LINE

KEY NOTES

1. PROPOSED RCP CULVERT WITH 24" RCP @ 7.5% SLOPE, 50' LENGTH, 50' LF, 11" DIA. (R=50) (SEE PLAN FOR FLARED END SECTION (FES) AND RIP RAP SIZE PER PLAN.

2. PROPOSED CONSPAN O-SERIES 11" DIA. (R=50) (SEE PLAN FOR FLARED END SECTION (FES) AND RIP RAP SIZE PER PLAN.

DATE

DESCRIPTION

DATE: 3/17/2020 2:03 PM
PROJECT: R:\S\01\000\000005 - WSP\01\000\000005 - WSP\01\000\000005 - WSP\01\000\000005 - WSP\01\000\000005
DRAWN BY: SEAN, DRN
CHECKED BY: JAL
DESIGNED BY: BS
DMS

WASATCH PEAKS RANCH
MORGAN COUNTY, UTAH

IMPACT PLAN AND PROFILE

NOT FOR CONSTRUCTION

SHEET
C2.16.G

IMPACT PLAN AND PROFILE

WASATCH PEAKS RANCH
MORGAN COUNTY, UTAH

DATE

DESCRIPTION

PROPERTY LINE

ACCESS ROAD

SURVEYED WETLANDS

PROPOSED SKI RUN

PROPOSED GOLF COURSE

PROPOSED SKI LIFT

PROPOSED DEVELOPMENT

PROPOSED 50' RIPARIAN BUFFER

EPHEMERAL STREAM

PERENNIAL STREAM

WETLAND HIGH WATER MARK (TOWING)

MAN MADE DIVERSION

LIMITS OF DISTURBANCE

PROL. STREAM IMPACT

PROL. MAN-MADE DIVERSION IMPACT

PROL. WETLAND IMPACT

PROP. ARTERIAL ROAD

PROPOSED GAS LINE

PROPOSED ELEC. LINE

PROPOSED IRR. LINE

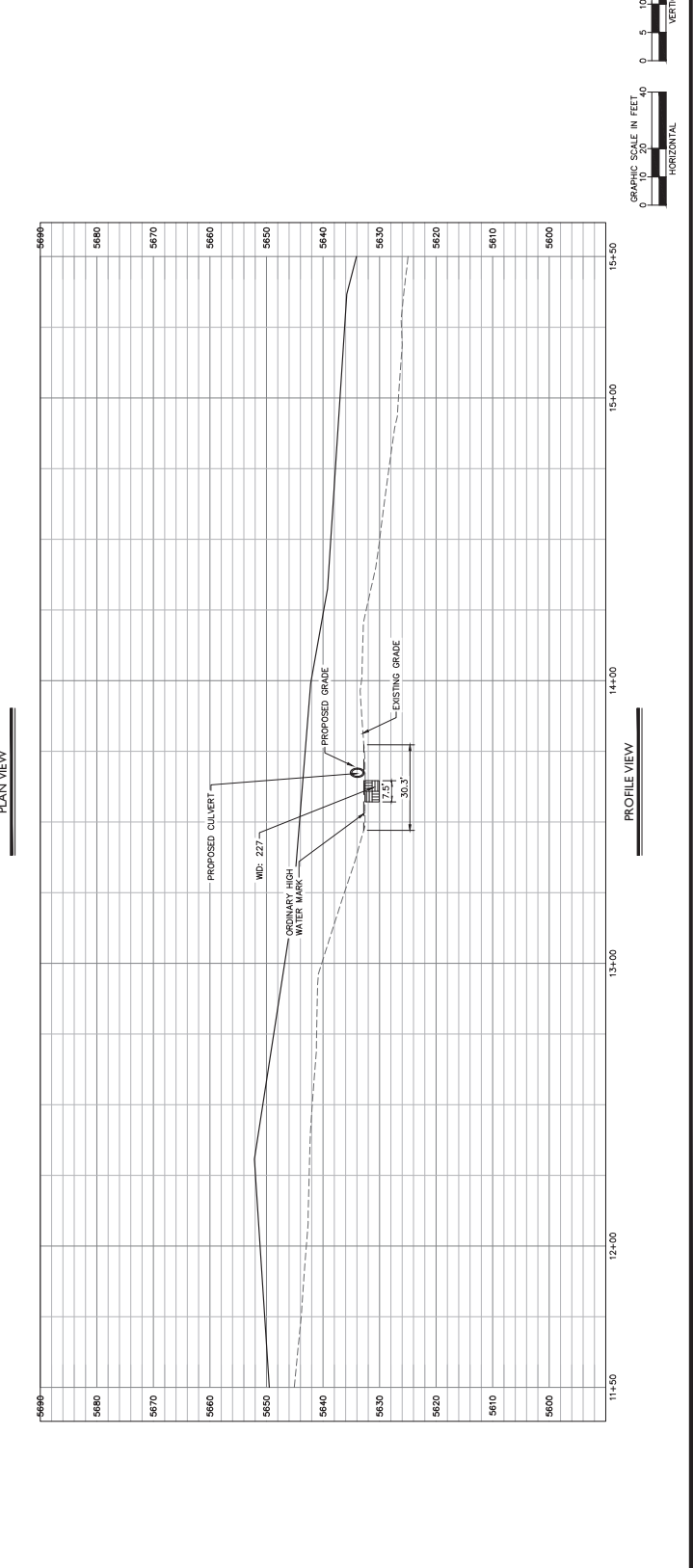
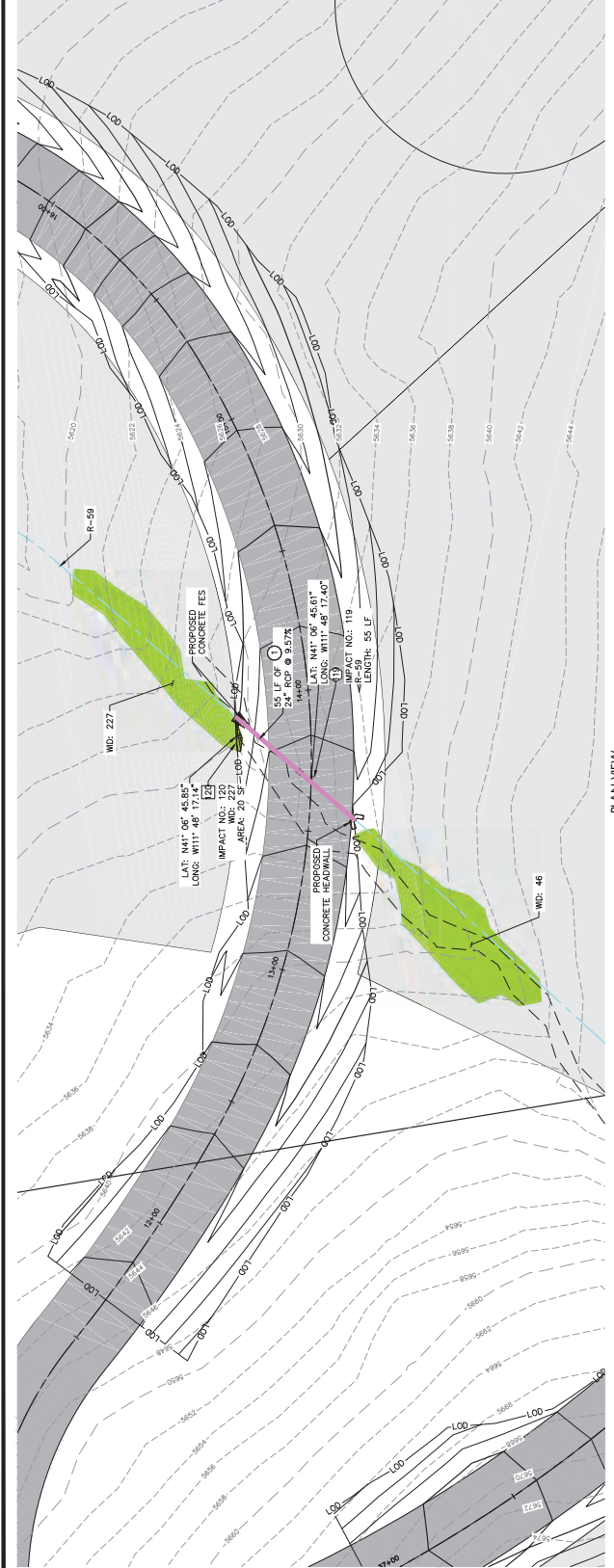
PROPOSED WATER LINE

PROPOSED SEWER LINE

KEY NOTES

1 PROPOSED RCP CULVERT WITH 24" RCP @ 9.57% SLOPE, 55 LF LONG, 30.3' IMPACT WIDTH, 1.667' IMPACT FOOTPRINT, 371' PILL BELOW OHWM (37'). SEE SEPARATE DETAILS. DIMENSION PER PLAN.

2 PROPOSED CONSPAN O-SERIES 12'x12'x12' PRECAST CONCRETE DETAILS. DIMENSION PER PLAN.



LEGEND

PROPERTY LINE

ACCESS ROAD

SURVEYED WETLANDS

PROPOSED SKI RUN

PROPOSED GOLF COURSE

PROPOSED SKI LIFT

PROPOSED DEVELOPMENT

PROPOSED 50' RIPARIAN BUFFER

INTERMITTENT STREAM

PERENNIAL STREAM

WATER TOWNSHIP WATER

MAN MADE DIVERSION

LIMITS OF DISTURBANCE

PROL. STREAM IMPACT

PROL. MAN-MADE DIVERSION IMPACT

PROL. WETLAND IMPACT

PROP. ARTERIAL ROAD

PROPOSED GAS LINE

PROPOSED ELEC. LINE

PROPOSED IRR. LINE

PROPOSED WATER LINE

PROPOSED SEWER LINE

① PROPOSED ROP CULVERT WITH 12" RADIUS CURVE AND 10' STREAM FLARED END SECTION (FES) AND RIP RAP SIZE PER PLAN.

② PROPOSED CONSPAN 0-SERIES CULVERT WITH 12" RADIUS CURVE AND 10' STREAM FLARED END SECTION (FES) AND RIP RAP SIZE PER PLAN.

MAN MADE DIVERSION IMPACT #121

IMPACT LENGTH (LF)	60
IMPACT WIDTH (LF)	10
IMPACT FOOTPRINT (SF)	600
FILL BELOW OHWM (SF)	XX

PLAN VIEW

PROFILE VIEW

NORTH

0 5 10 20

HORIZONTAL

0 10 20 40

VERTICAL

GRAPHIC SCALE IN FEET

GRAPHIC SCALE IN FEET

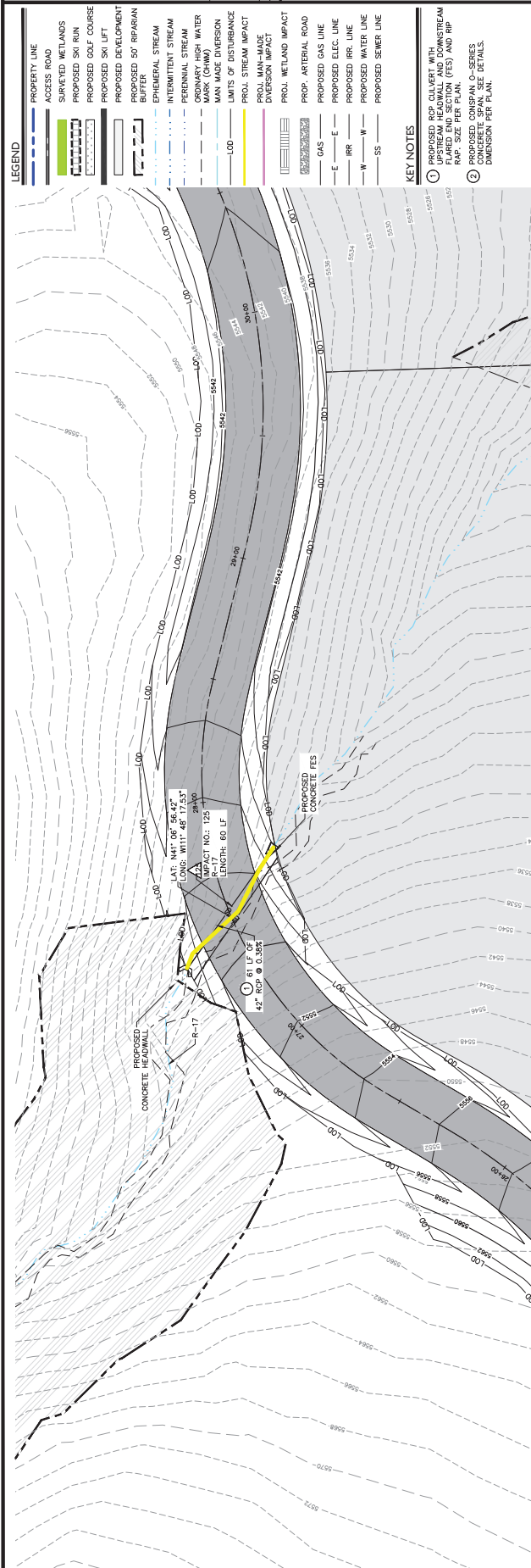
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NOT FOR
CONSTRUCTION

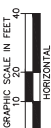
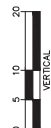
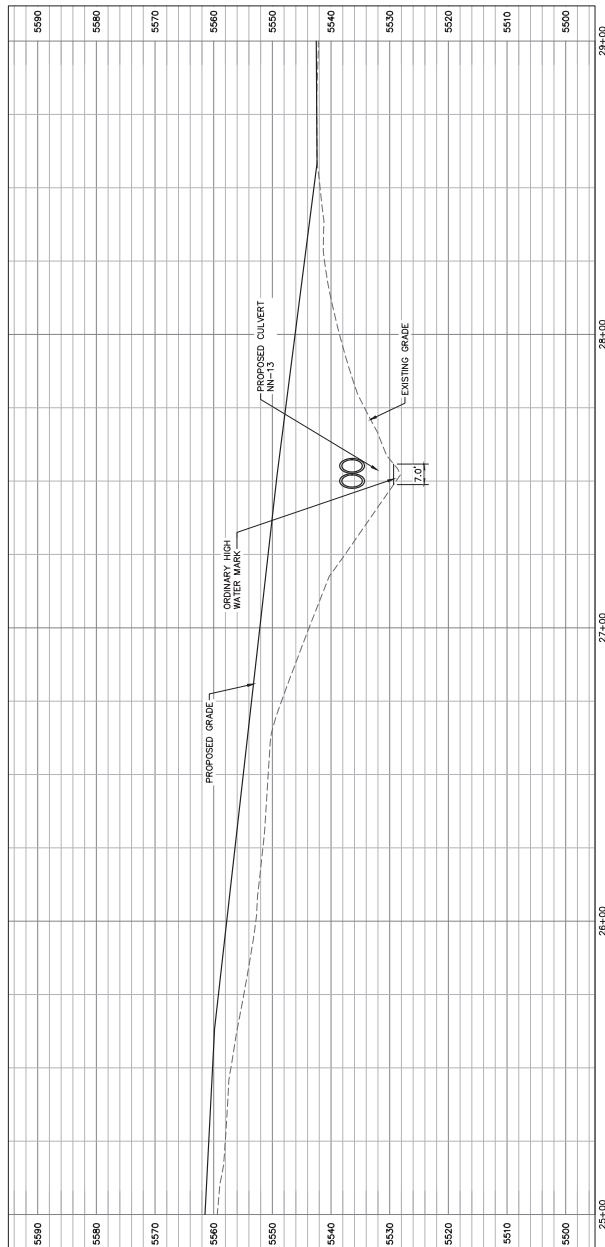
DESIGNED BY: _____
CHECKED BY: _____
PROJECT NO.: _____
0963600

WASATCH PEAKS RANCH
MORGAN COUNTY, UTAH

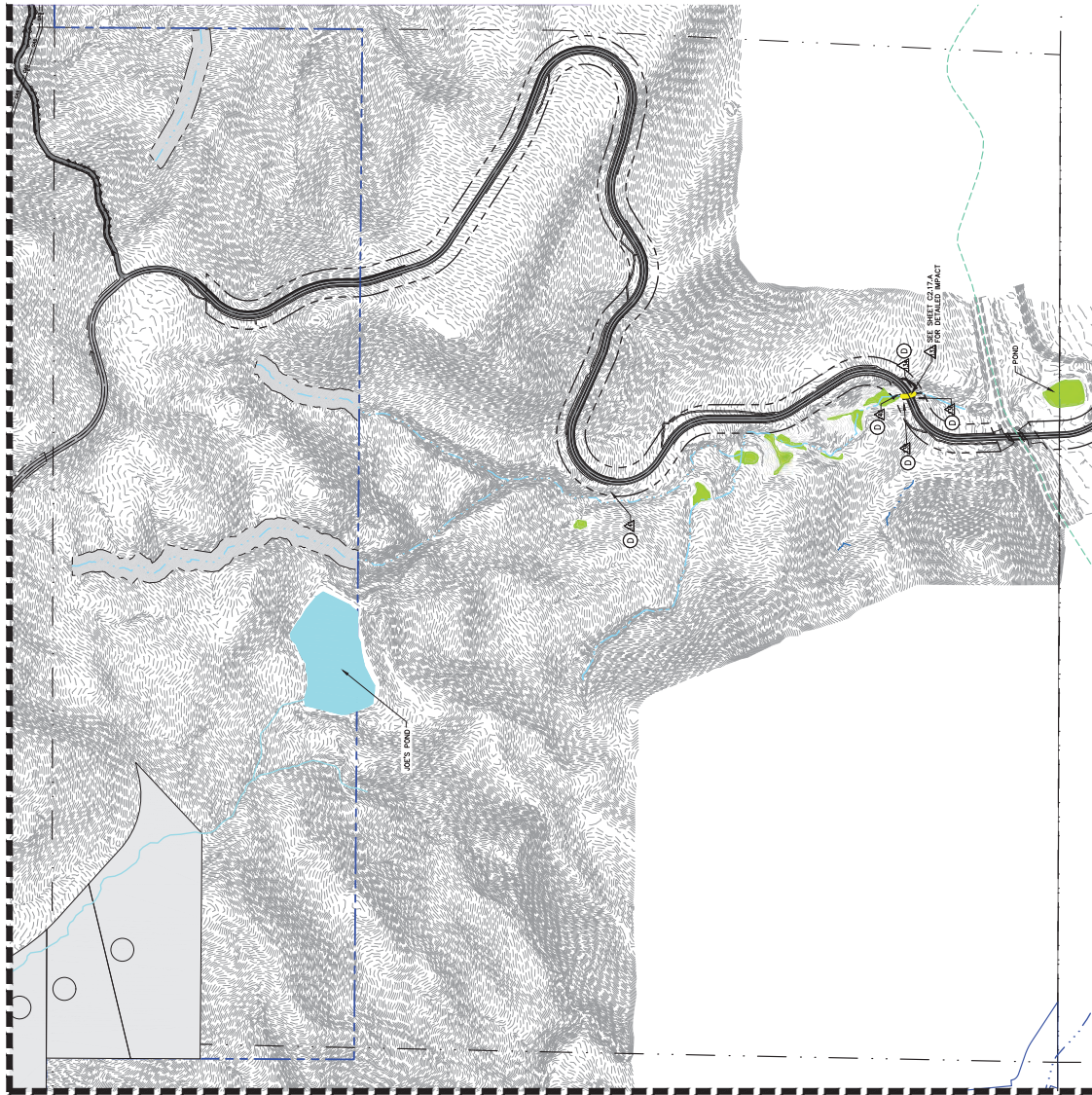
Kimley»Horn
215 South State Street, Suite 400 | Salt Lake City, UT 84111 | Tel. No. (385) 212-3176



CREEK IMPACT #125	
PACT LENGTH (LF)	60
PACT WIDTH (LF)	7
PACT FOOTPRINT (SF)	420
ALL BELOW OHMM (CF)	285



MATCHLINE - SEE SHEET C2 16



MATCHLINE - SEE SHEET C2 18

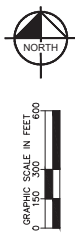
LEGEND

- PROPERTY BOUNDARY
- ACCESS ROAD
- SKI RUNS
- PROPOSED SKI LIFT
- DEVELOPMENT AREAS
- PROPOSED GOLF COURSE
- SURVEYED WETLANDS
- PROPOSED 50' RIPARIAN BUFFER
- EPHEMERAL CREEK
- INTERMITTENT CREEK
- PERENNIAL CREEK
- ORDINARY HIGH WATER MARK (OHWM)
- MAN-MADE DIVERSION
- NEW/OLD CANAL
- LIMITS OF DISTURBANCE
- PROJECTED CREEK IMPACT
- PROJECTED MAN-MADE DIVERSION IMPACT
- PROJECTED WETLAND IMPACT
- PROPOSED ARTERIAL ROAD
- PROPOSED GAS LINE
- PROPOSED ELECTRICAL LINE
- PROPOSED IRRIGATION LINE
- PROPOSED WATER LINE
- PROPOSED SEWER LINE
- CREEK IMPACT NUMBER
- WETLAND IMPACT NUMBER
- MAN MADE DIVERSION IMPACT NUMBER

KEY NOTES

- A SEE DETAIL 2 SHEET C3.0 FOR PROPOSED DESIGN CROSS SECTION FOR PROPOSED ROAD AND CREEK.
- B SEE DETAIL 3 SHEET C3.1 FOR PROPOSED DESIGN CROSS SECTION FOR CREEK RELOCATION (SEE DETAIL 3 SHEET C3.1 FOR CREEK RELOCATION).
- C RELOCATION OF CREEK IS CLASSIFIED AS TEMPORARY IMPACT.
- D MATCH EXISTING AND IS CLASSIFIED AS NO IMPACT.
- E DETAIL OUTFALL WILL BE LOCATED ABOVE ORDINARY HIGH WATER MARK AND IS CLASSIFIED AS NO IMPACT.
- F SEE DETAIL 3 SHEET C3.1 FOR TYPICAL CREEK RELOCATION AND TEMPORARY IMPACT.
- G SEE DETAIL 3 SHEET C3.1 FOR TYPICAL CREEK RELOCATION AND TEMPORARY IMPACT.
- H UTILITY LINE TO BE INSTALLED VIA HORIZONTAL DIRECTIONAL DRILLING (HDD) UNDER CREEK ON WETLAND IMPACT TYPE ANTICIPATED AS NO IMPACT.

PROPOSED RIPARIAN BUFFER
SECTION TOTAL: 7.20 AC



SHEET
C2.17

NOT FOR
CONSTRUCTION

PROJECT No.:	090360005
CHECKED BY:	ZAL
DESIGNED BY:	BS
DRAWN BY:	DMS
AS SHOWN	

SECTION PROPOSED
WASATCH PEAKS RANCH
MORGAN COUNTY, UTAH

Kimley-Horn
215 South State Street - Suite 200 - Salt Lake City, UT 84111 | TEL: 801.224.2176

WASATCH PEAKS RANCH
MORGAN COUNTY, UTAH

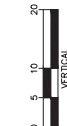
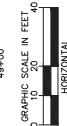
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CONSTRUCTION

SHEET
C2.17.A

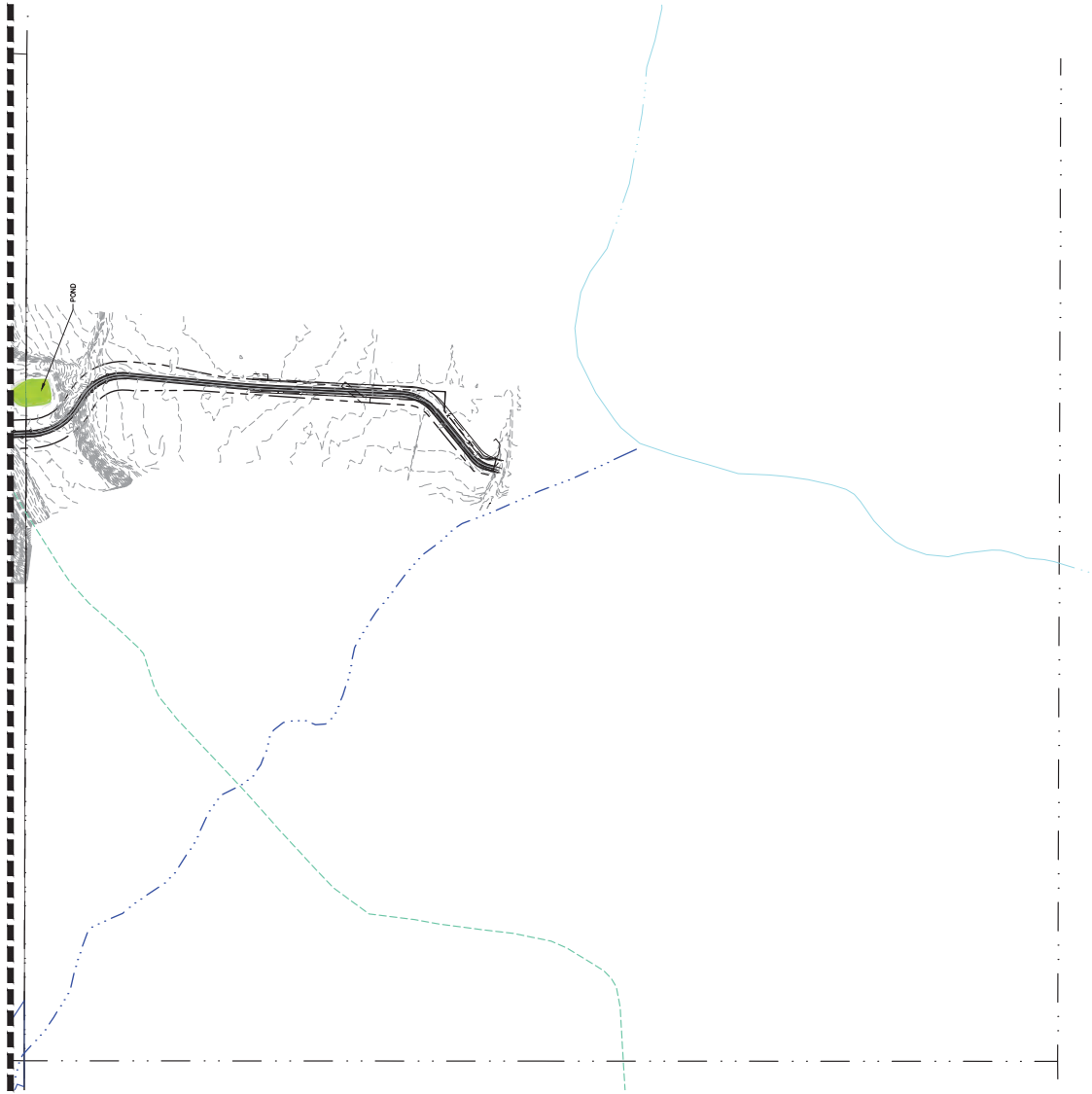
KEY NOTES

- ① PROPOSED RCP CULVERT WITH UPSTREAM HEADWALL AND DOWNSTREAM FLARED END SECTION (FES) AND RIP RAP. SIZE PER PLAN.
- ② PROPOSED CONSPAN O-SERIES CONCRETE SPAN. SEE DETAILS, DIMENSION PER PLAN.

CREEK	IMPACT #137
IMPACT LENGTH (LF)	65
IMPACT WIDTH (LF)	6
IMPACT FOOTPRINT (SF)	390
FILL BELOW CHMM (CF)	0



MATCHLINE - SEE SHEET C2.17



LEGEND

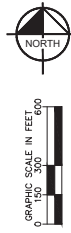
- PROPERTY BOUNDARY
- ACCESS ROAD
- SKI RUNS
- PROPOSED SKI LIFT
- DEVELOPMENT AREAS
- PROPOSED GOLF COURSE
- SURVEYED WETLANDS
- PROPOSED 50' RIPARIAN BUFFER
- EPHEMERAL CREEK
- INTERMITTENT CREEK
- PERENNIAL CREEK
- ORDINARY HIGH WATER MARK (OHWM)
- MAN-MADE DIVERSION
- IBWIS CANAL
- LIMITS OF DISTURBANCE
- PROJECTED CREEK IMPACT
- PROJECTED MAN-MADE DIVERSION IMPACT
- PROJECTED WETLAND IMPACT
- PROPOSED ARTERIAL ROAD
- PROPOSED GAS LINE
- PROPOSED ELECTRICAL LINE
- PROPOSED IRRIGATION LINE
- PROPOSED WATER LINE
- PROPOSED SEWER LINE
- CREEK IMPACT NUMBER
- WETLAND IMPACT NUMBER
- MAN MADE DIVERSION IMPACT NUMBER

KEY NOTES

- A SEE DETAIL 2 SHEET C3.0 FOR PROPOSED DESIGN CROSS SECTIONS. ALL STRUCTURES SHALL BE DESIGNED TO RESIST A 100 YEAR FLOOD EVENT. ALL STRUCTURES WILL RESULT IN PERMANENT IMPACTS TO STREAMS. SEE DETAIL 3 SHEET C3.1 FOR PROPOSED DESIGN CROSS SECTIONS. SEE DETAIL 4 SHEET C3.2 FOR PROPOSED DESIGN CROSS SECTIONS.
- B RELOCATION OF CREEK IS CLASSIFIED AS TEMPORARY IMPACT. SEE DETAIL 5 SHEET C3.3 FOR PROPOSED DESIGN CROSS SECTIONS.
- C RELOCATION OF CREEK IS CLASSIFIED AS TEMPORARY IMPACT. SEE DETAIL 6 SHEET C3.4 FOR PROPOSED DESIGN CROSS SECTIONS.
- D MATCH EXISTING AND IS CLASSIFIED AS NO IMPACT.
- E WATER MARK AND IS CLASSIFIED AS NO IMPACT.
- F SEE DETAIL 7 SHEET C3.5 FOR PROPOSED DESIGN CROSS SECTIONS. BRIDGE TO BE DESIGNED TO SPAN ORDINARY HIGH WATER MARK AND IS CLASSIFIED AS NON-JURISDICTIONAL IMPACT.
- G SEE DETAIL 8 SHEET C3.6 FOR PROPOSED DESIGN CROSS SECTIONS. BRIDGE TO BE DESIGNED TO SPAN ORDINARY HIGH WATER MARK AND IS CLASSIFIED AS NON-JURISDICTIONAL IMPACT.
- H SEE DETAIL 9 SHEET C3.7 FOR PROPOSED DESIGN CROSS SECTIONS. BRIDGE TO BE DESIGNED TO SPAN ORDINARY HIGH WATER MARK AND IS CLASSIFIED AS NON-JURISDICTIONAL IMPACT.
- I SEE DETAIL 10 SHEET C3.8 FOR PROPOSED DESIGN CROSS SECTIONS. BRIDGE TO BE DESIGNED TO SPAN ORDINARY HIGH WATER MARK AND IS CLASSIFIED AS NON-JURISDICTIONAL IMPACT.
- J SEE DETAIL 11 SHEET C3.9 FOR PROPOSED DESIGN CROSS SECTIONS. BRIDGE TO BE DESIGNED TO SPAN ORDINARY HIGH WATER MARK AND IS CLASSIFIED AS NON-JURISDICTIONAL IMPACT.

PROPOSED RIPARIAN BUFFER
SECTION TOTAL: 0.0 AC

NO IMPACTS APPEAR
ON THIS SHEET



SHEET
C2.18

NOT FOR
CONSTRUCTION

SCALE

PROJECT NO.: 090360005
CHECKED BY: ZAL
DESIGNED BY: BJS
DRAWN BY: DMS

SECTION PROPOSED
WASATCH PEAKS RANCH
MORGAN COUNTY, UTAH

Kimley-Horn
215 South State Street, Suite 200, Salt Lake City, UT 84111 | TEL: 801.525.2176

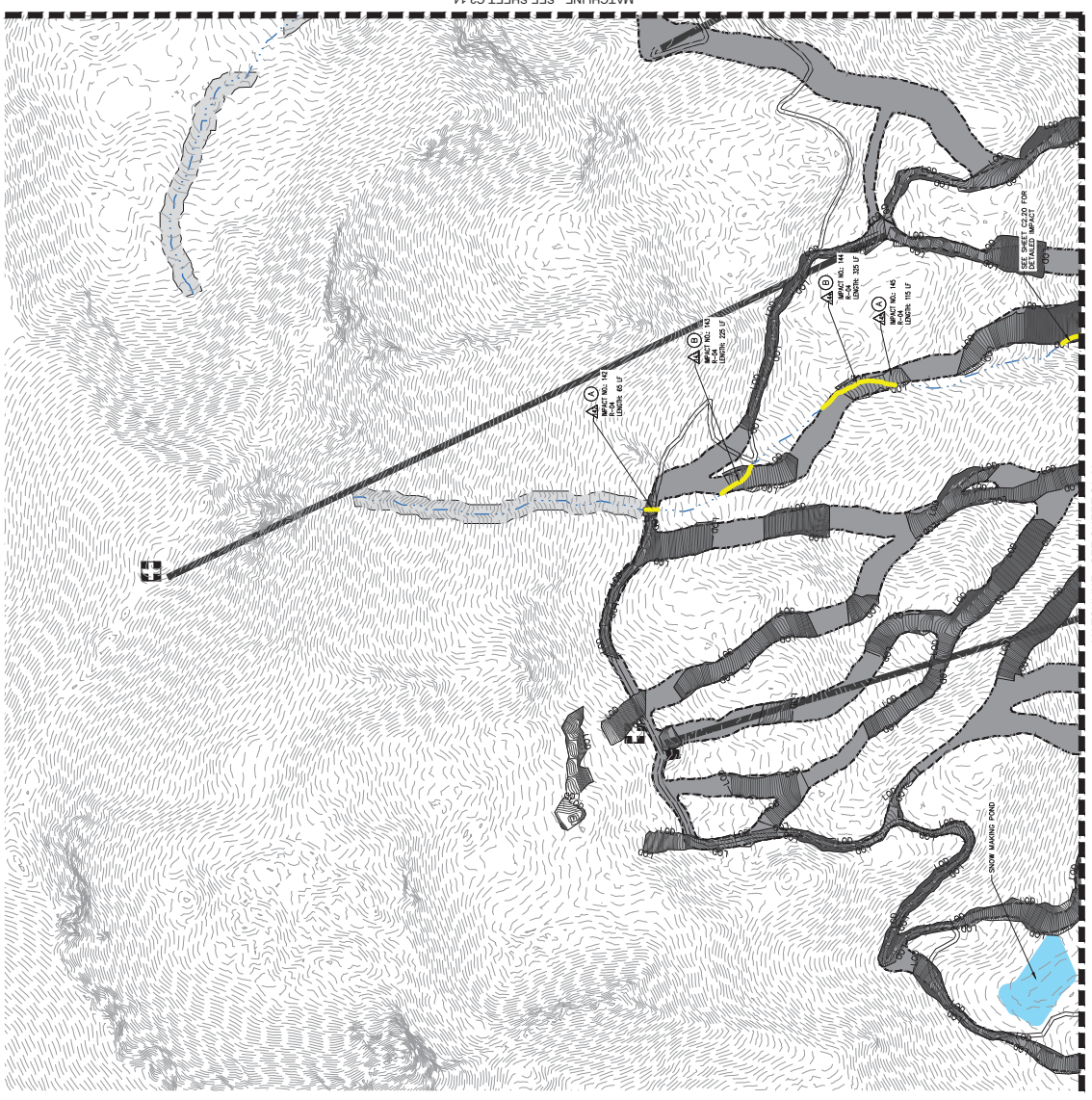
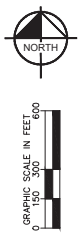
LEGEND

- PROPERTY BOUNDARY
- ACCESS ROAD
- SKI RUNS
- PROPOSED SKI LIFT
- DEVELOPMENT AREAS
- PROPOSED GOLF COURSE
- SURVEYED WETLANDS
- PROPOSED 50' RIPARIAN BUFFER
- EPHEMERAL CREEK
- INTERMITTENT CREEK
- PERENNIAL CREEK
- ORDINARY HIGH WATER MARK (OHWM)
- MAN-MADE DIVERSION
- NEW/OLD CANAL
- LIMITS OF DISTURBANCE
- PROJECTED CREEK IMPACT
- PROJECTED MAN-MADE DIVERSION IMPACT
- PROJECTED WETLAND IMPACT
- PROPOSED ARTERIAL ROAD
- PROPOSED GAS LINE
- PROPOSED ELECTRICAL LINE
- PROPOSED IRRIGATION LINE
- PROPOSED WATER LINE
- PROPOSED SEWER LINE
- CREEK IMPACT NUMBER
- WETLAND IMPACT NUMBER
- MAN MADE DIVERSION IMPACT NUMBER

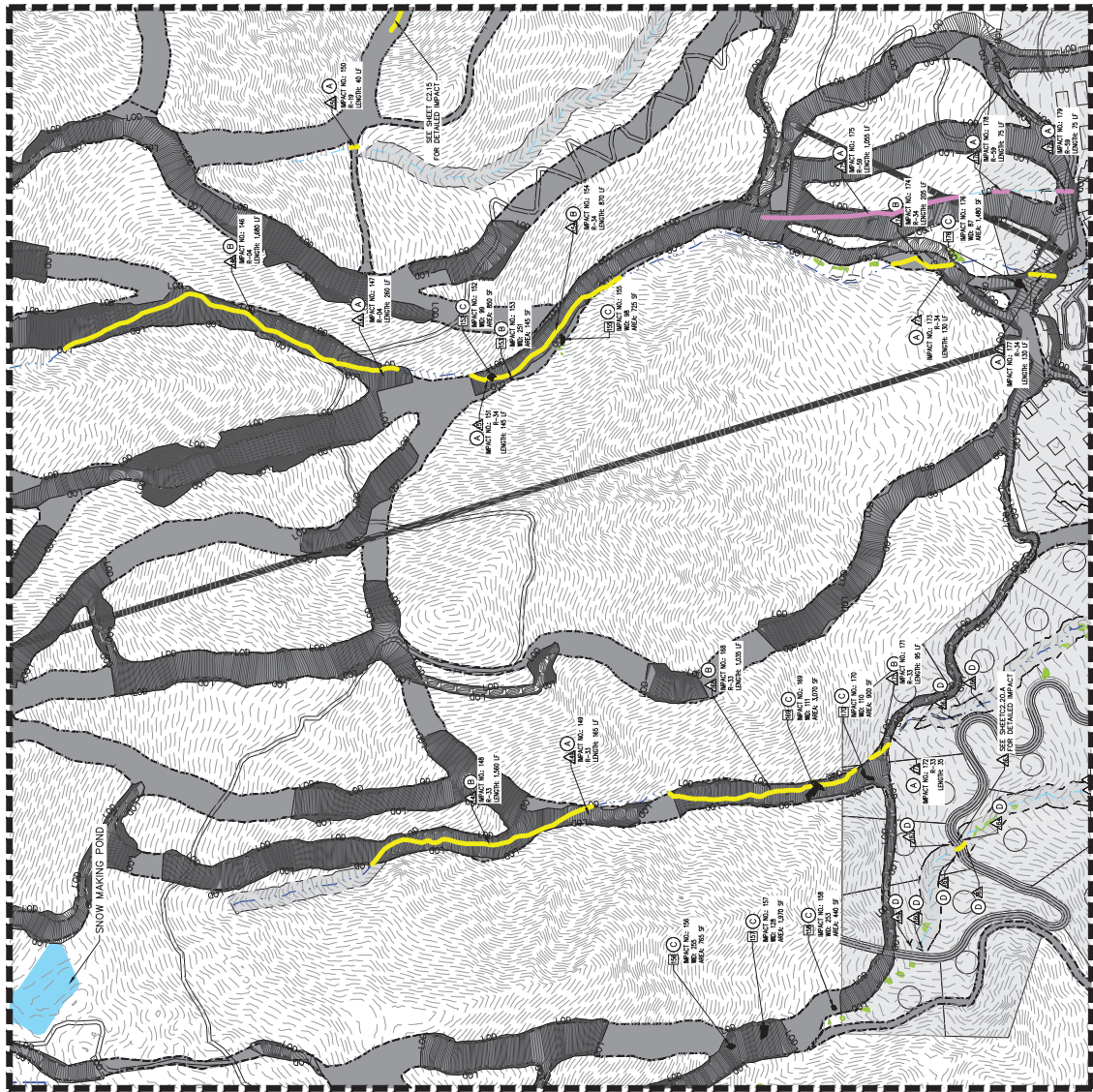
KEY NOTES

- A SEE DETAIL 2 SHEET C2.0 FOR PROPOSED DESIGN CROSS SECTION FOR CREEK RELOCATION AND PROPOSED DESIGN CROSS SECTION FOR CREEK RELOCATION (SEE DETAIL 2 SHEET C2.0).
- B RELOCATION OF CREEK IS CLASSIFIED AS TEMPORARY IMPACT.
- C RELOCATION OF CREEK IS CLASSIFIED AS TEMPORARY IMPACT.
- D MATCH EXISTING AND IS CLASSIFIED AS NO IMPACT.
- E DETAIL OUTFALL WILL BE LOCATED ABOVE ORDINARY HIGH WATER MARK AND IS CLASSIFIED AS NO IMPACT.
- F SEE DETAIL 3 SHEET C2.1 FOR TYPICAL CREEK RELOCATION AND PROPOSED DESIGN CROSS SECTION FOR CREEK RELOCATION (SEE DETAIL 3 SHEET C2.1).
- G TEMPORARY IMPACT CLASSIFIED AS TEMPORARY IMPACT.
- H UTILITY LINE TO BE INSTALLED VIA HORIZONTAL DIRECTIONAL DRILLING (HDD) UNDER CREEK ON WETLAND. IMPACT TYPE ANTICIPATED AS NO IMPACT.

PROPOSED RIPARIAN BUFFER
SECTION TOTAL: 6.57 AC



MATCHLINE - SEE SHEET C2.19



MATCHLINE - SEE SHEET C2.23

MATCHLINE - SEE SHEET C2.21

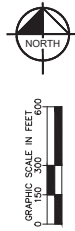
LEGEND

- PROPERTY BOUNDARY
- ACCESS ROAD
- SKI RUNS
- PROPOSED SKI LIFT
- DEVELOPMENT AREAS
- PROPOSED GOLF COURSE
- SURVEYED WETLANDS
- PROPOSED 50' RIPARIAN BUFFER
- EPIHEMERAL CREEK
- INTERMITTENT CREEK
- PERENNIAL CREEK
- ORDINARY HIGH WATER MARK (OHWM)
- MAN-MADE DIVERSION
- NEW/OLD CANAL
- LIMITS OF DISTURBANCE
- PROJECTED CREEK IMPACT
- PROJECTED MAN-MADE DIVERSION IMPACT
- PROJECTED WETLAND IMPACT
- PROPOSED ARTERIAL ROAD
- PROPOSED GAS LINE
- PROPOSED ELECTRICAL LINE
- PROPOSED IRRIGATION LINE
- PROPOSED WATER LINE
- PROPOSED SEWER LINE
- CREEK IMPACT NUMBER
- WETLAND IMPACT NUMBER
- MAN MADE DIVERSION IMPACT NUMBER

KEY NOTES

- SEE DETAIL 2 SHEET C2.0 FOR PROPOSED DESIGN CROSS SECTIONS. THE PROPOSED DESIGN CROSS SECTIONS WILL RESULT IN PERMANENT IMPACTS TO STREAMS, WETLANDS, AND CREEKS. THE PROPOSED DESIGN CROSS SECTIONS WILL RESULT IN PERMANENT IMPACTS TO STREAMS, WETLANDS, AND CREEKS.
- SECTION 2 FOR CREEK RELOCATION (SEE DETAIL 2 SHEET C2.0 FOR CREEK RELOCATION DESIGN).
- RELOCATION OF CREEK IS CLASSIFIED AS TEMPORARY IMPACT.
- SECTION 3 FOR SPONG OVER WETLANDS (SEE OTHERS). (GRADE WILL MATCH EXISTING AND IS CLASSIFIED AS NO IMPACT).
- RELOCATION OF CREEK IS CLASSIFIED AS TEMPORARY IMPACT.
- WATER MARK AND IS CLASSIFIED AS NO IMPACT.
- SECTION 4 BRIDGE TO BE DESIGNED TO SPAN ORDINARY HIGH WATER MARK AND IS CLASSIFIED AS NON-JURISDICTIONAL IMPACT.
- SEE DETAIL 3 SHEET C2.1 FOR TYPICAL CREEK RELOCATION AND BRIDGE DESIGN.
- TEMPORARY IMPACT CLASSIFIED AS PERMANENT.
- UTILITY LINE TO BE INSTALLED VIA HORIZONTAL DIRECTIONAL DRILLING (HDD) UNDER CREEK OR WETLAND. IMPACT TYPE ANTICIPATED AS NO IMPACT.

PROPOSED RIPARIAN BUFFER
SECTION TOTAL: 11.6 AC



NOT FOR CONSTRUCTION

SHEET C2.20

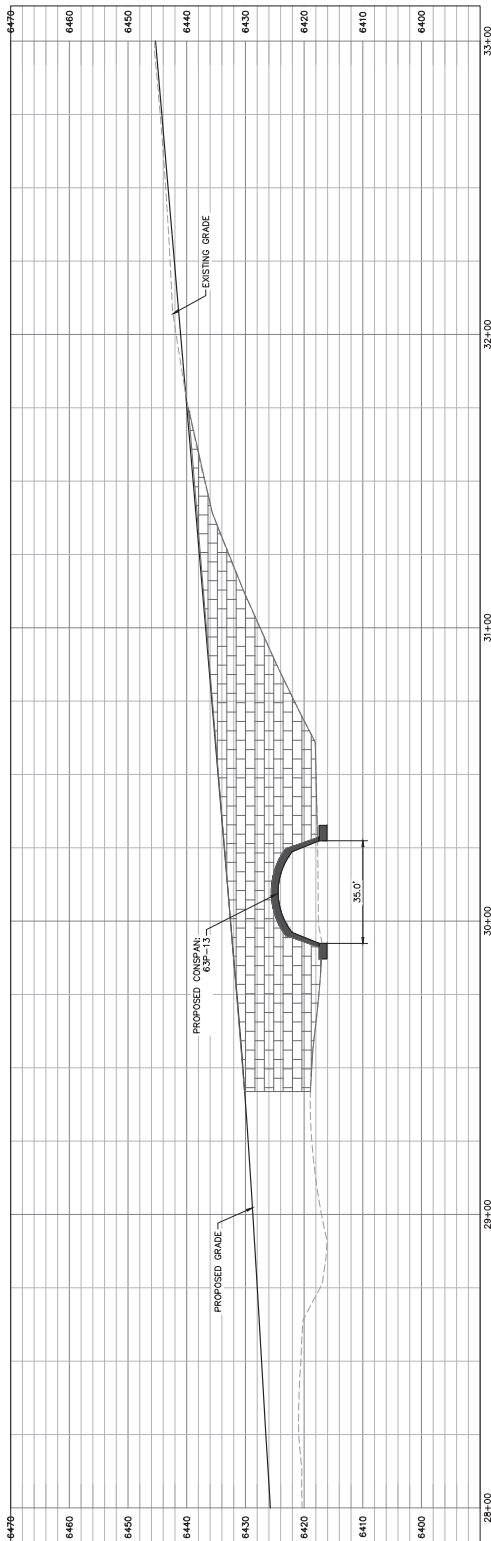
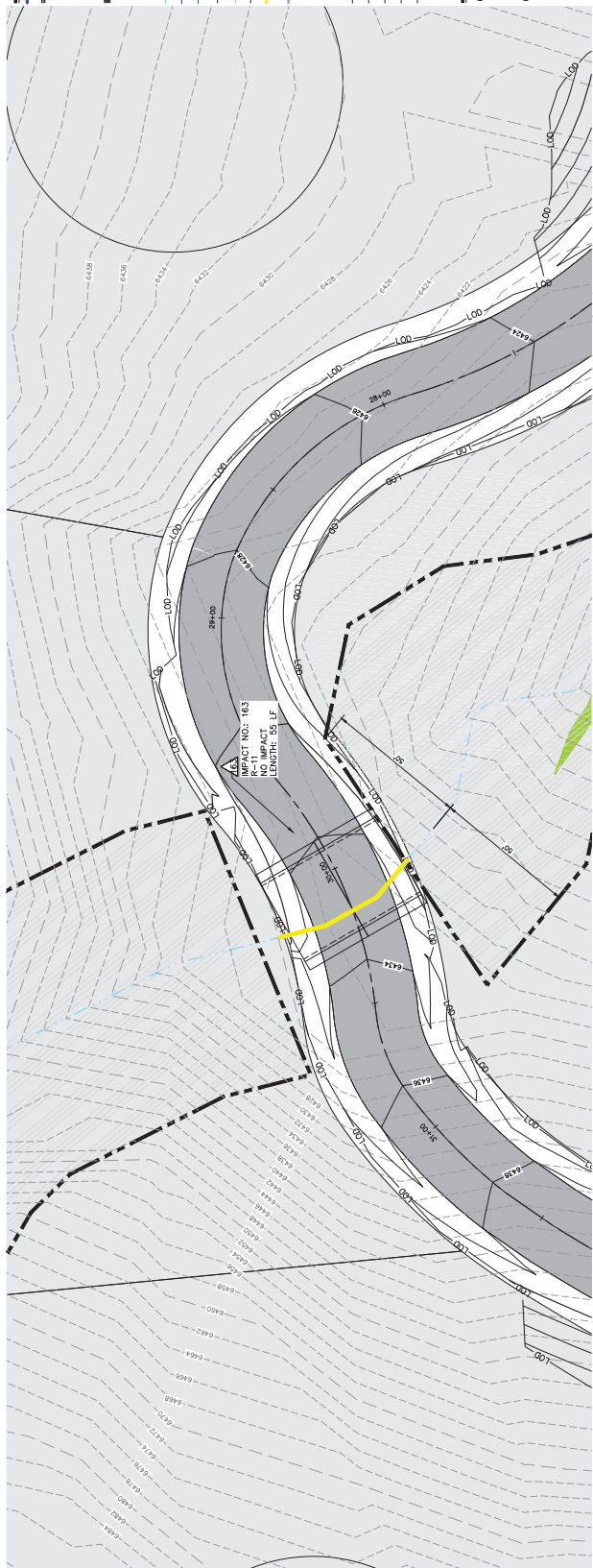
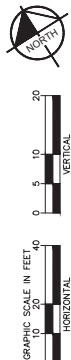
SECTION PROPOSED
MORGAN COUNTY, UTAH
WASATCH PEAKS RANCH

DRAWN BY: DMS
DESIGNED BY: DMS
CHECKED BY: ZAJ
PROJECT NO.: 090360005
SCALE: AS SHOWN

Kimley-Horn
215 South State Street, Suite 200, Salt Lake City, UT 84111 | TEL: 801.222.3176

CREEK IMPACT #163	
IMPACTS LENGTH (LF)	55
IMPACT WIDTH (LF)	15
IMPACT FOOTPRINT (LF)	825
WILL BE LOW OHMM (CF)	0

ORDINARY HIGH WATER MARK IS
LOCATED BASED OFF TYPICAL
DIMENSIONS FROM SIMILAR OHWM
DATA OBTAINED IN THE FIELD.



KEY NOTES

- ① PROPOSED RCP CULVERT WITH
UPSTREAM HEADWALL AND DOWNSTREAM
FLARED END SECTION (FES) AND RIP
RAP. SIZE PER PLAN.
- ② PROPOSED CONSPAN O-SERIES
CONCRETE SPAN. SEE DETAILS.
DIMENSION PER PLAN.

PLAN VIEW

[illegible]

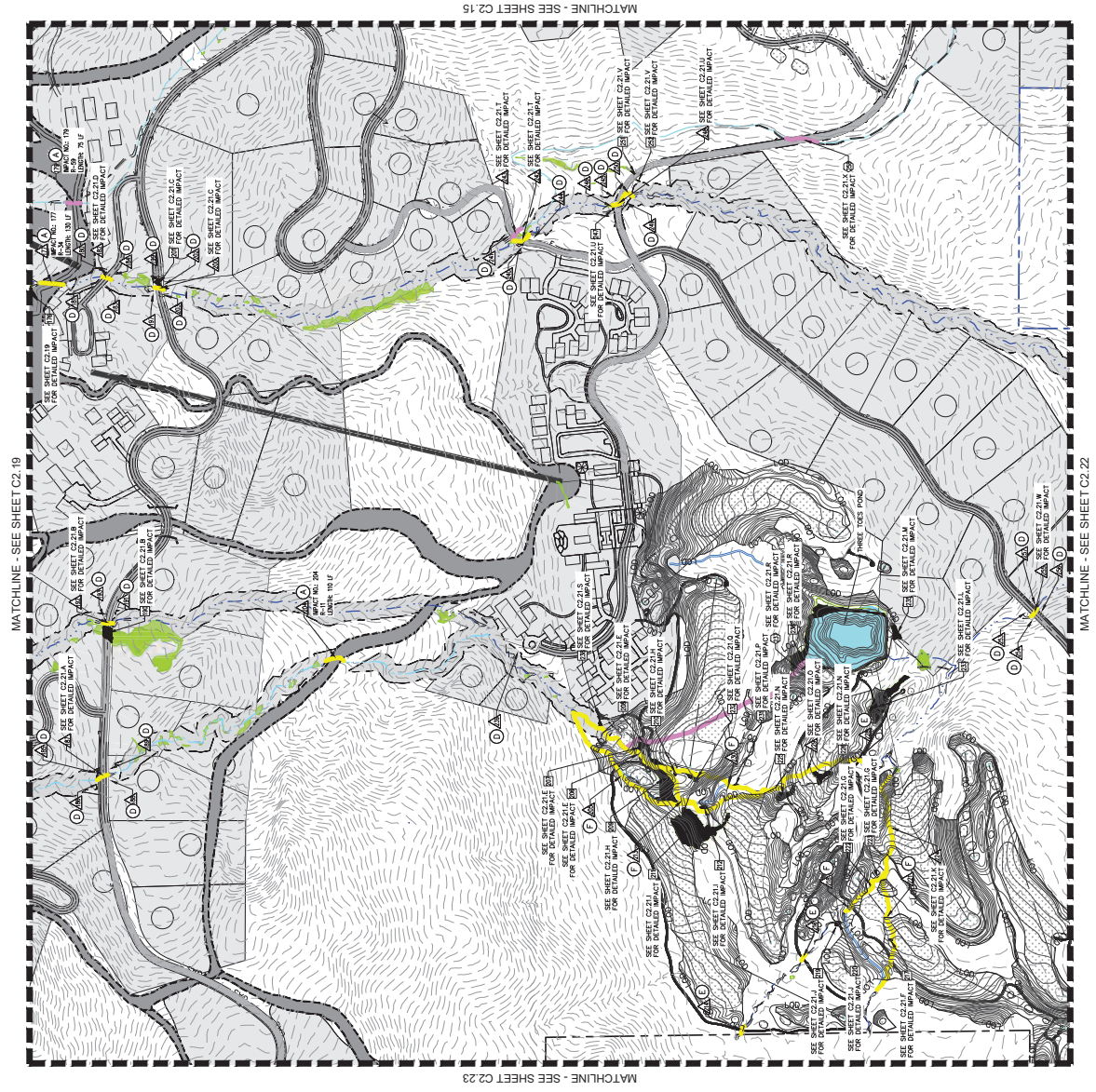
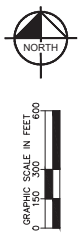
LEGEND

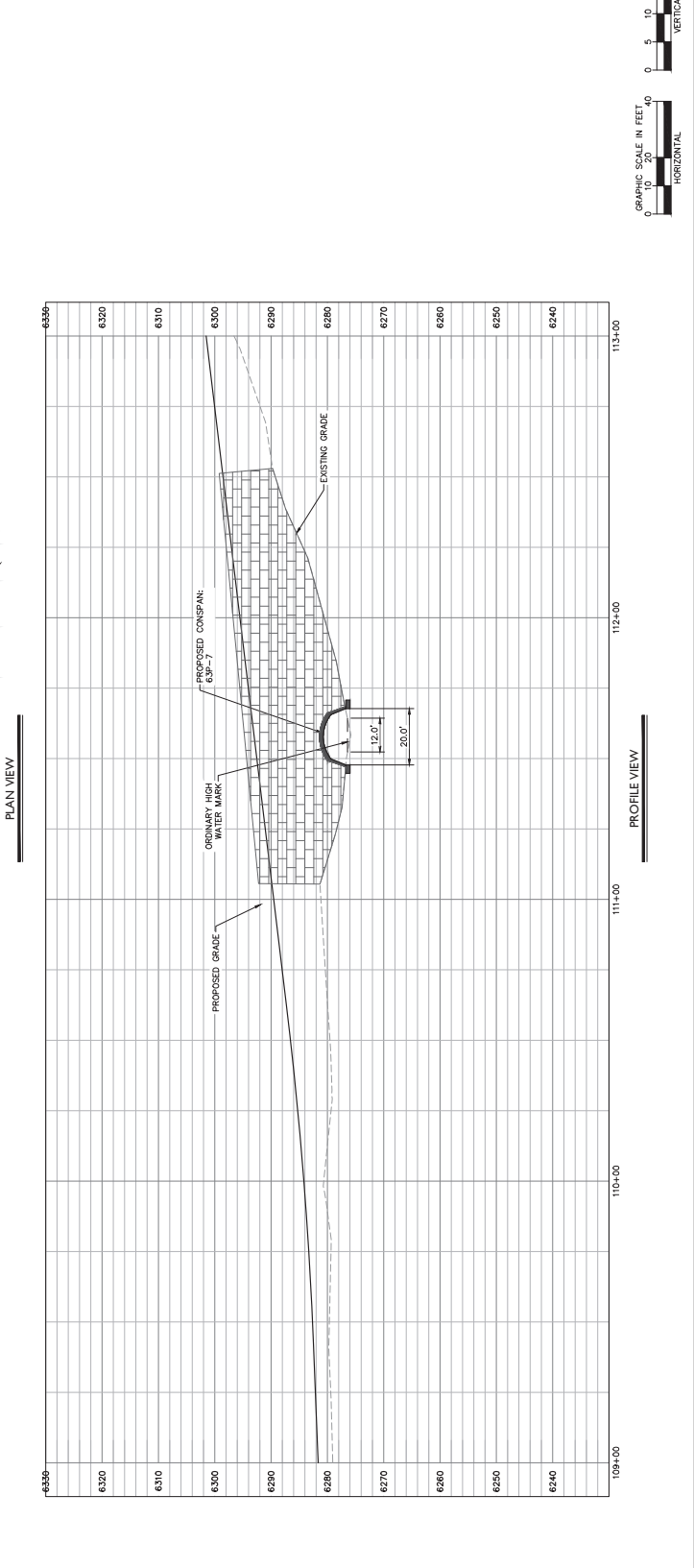
- PROPERTY BOUNDARY
- ACCESS ROAD
- SKI RUNS
- PROPOSED SKI LIFT
- DEVELOPMENT AREAS
- PROPOSED GOLF COURSE
- SURVEYED WETLANDS
- PROPOSED 50' RIPARIAN BUFFER
- EPHEMERAL CREEK
- INTERMITTENT CREEK
- PERENNIAL CREEK
- ORDINARY HIGH WATER MARK (OHWM)
- MAN-MADE DIVERSION
- NEW/OLD CANAL
- LIMITS OF DISTURBANCE
- PROJECTED CREEK IMPACT
- PROJECTED MAN-MADE DIVERSION IMPACT
- PROJECTED WETLAND IMPACT
- PROPOSED ARTERIAL ROAD
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- PROPOSED ELECTRICAL LINE
- PROPOSED IRRIGATION LINE
- PROPOSED WATER LINE
- PROPOSED SEWER LINE
- CREEK IMPACT NUMBER
- WETLAND IMPACT NUMBER
- MAN MADE DIVERSION IMPACT NUMBER

KEY NOTES

- A SEE DETAIL 2 SHEET C2.0 FOR PROPOSED DESIGN CROSS SECTIONS. ALL STRUCTURES SHALL BE DESIGNED TO PERFORM AS INTENDED AND SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE UTAH DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES.
- B SEE DETAIL 2 SHEET C2.0 FOR PROPOSED DESIGN CROSS SECTIONS. ALL STRUCTURES SHALL BE DESIGNED TO PERFORM AS INTENDED AND SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE UTAH DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES.
- C RELOCATION OF CREEK IS CLASSIFIED AS TEMPORARY IMPACT. RELOCATION OF CREEK IS CLASSIFIED AS TEMPORARY IMPACT. RELOCATION OF CREEK IS CLASSIFIED AS TEMPORARY IMPACT.
- D MATCH EXISTING AND IS CLASSIFIED AS NO IMPACT. MATCH EXISTING AND IS CLASSIFIED AS NO IMPACT. MATCH EXISTING AND IS CLASSIFIED AS NO IMPACT.
- E WATER MARK AND IS CLASSIFIED AS NO IMPACT. WATER MARK AND IS CLASSIFIED AS NO IMPACT. WATER MARK AND IS CLASSIFIED AS NO IMPACT.
- F SEE DETAIL 3 SHEET C2.1 FOR TYPICAL CREEK RELOCATION AND IMPACT. SEE DETAIL 3 SHEET C2.1 FOR TYPICAL CREEK RELOCATION AND IMPACT. SEE DETAIL 3 SHEET C2.1 FOR TYPICAL CREEK RELOCATION AND IMPACT.
- G TEMPORARY IMPACT CLASSIFIED AS PERMANENT. TEMPORARY IMPACT CLASSIFIED AS PERMANENT. TEMPORARY IMPACT CLASSIFIED AS PERMANENT.
- H UTILITY LINE TO BE INSTALLED VIA HORIZONTAL DIRECTIONAL DRILLING. UTILITY LINE TO BE INSTALLED VIA HORIZONTAL DIRECTIONAL DRILLING. UTILITY LINE TO BE INSTALLED VIA HORIZONTAL DIRECTIONAL DRILLING.

PROPOSED RIPARIAN BUFFER
SECTION TOTAL: 26.1 AC





LEGEND

PROPERTY LINE

ACCESS ROAD

SURVEYED WETLANDS

PROPOSED SKI RUN

PROPOSED SKI LIFT

PROPOSED DEVELOPMENT

PROPOSED 50' RIPARIAN BUFFER

INTERMITTENT STREAM

PERMANENT STREAM

WETLAND HIGH WATER MARK (TOWING)

MAN MADE DIVERSION

LIMITS OF DISTURBANCE

PROL. STREAM IMPACT

PROL. MAN-MADE DIVERSION IMPACT

PROL. WETLAND IMPACT

PROP. ARTERIAL ROAD

PROPOSED GAS LINE

PROPOSED ELEC. LINE

PROPOSED IRR. LINE

PROPOSED WATER LINE

PROPOSED SEWER LINE

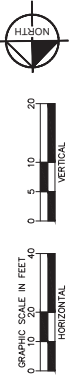
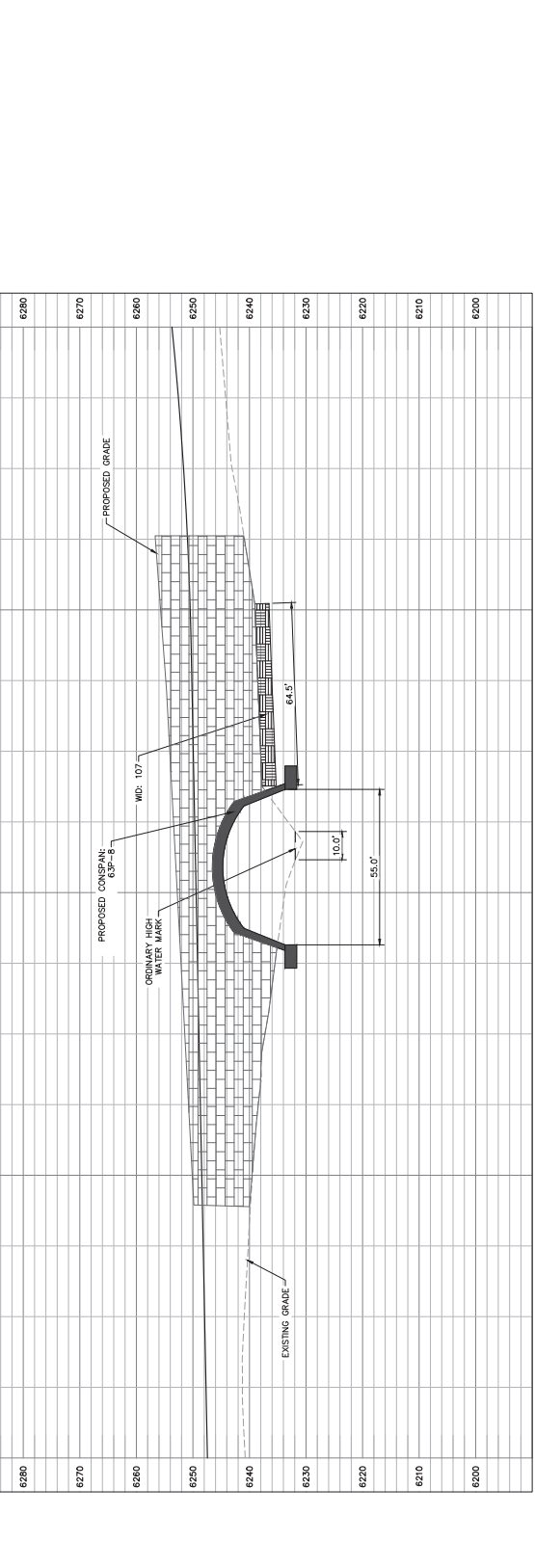
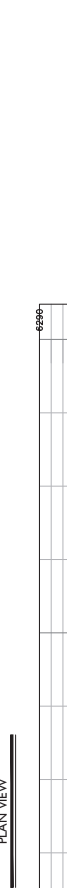
PROPOSED RCP CULVERT WITH 12" DRAINAGE MANHOLE (FLARED END SECTION (FES) AND RIP RAP SIZE PER PLAN.

PROPOSED CONSPAN O-SERIES 12" RCP CULVERT WITH 12" DRAINAGE MANHOLE (FLARED END SECTION (FES) AND RIP RAP SIZE PER PLAN.



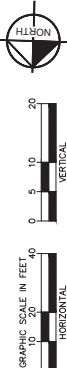
WETLAND IMPACT #190	3,375
IMPACT FOOTPRINT (SF)	

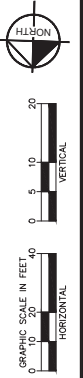
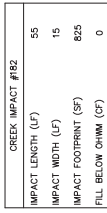
CREEK IMPACT #192	
IMPACT LENGTH (LF)	55
IMPACT WIDTH (LF)	10
IMPACT FOOTPRINT (SF)	550
FILL BELOW OHWM (CF)	0





WETLAND IMPACT #201	
IMPACT FOOTPRINT (SF)	1,365

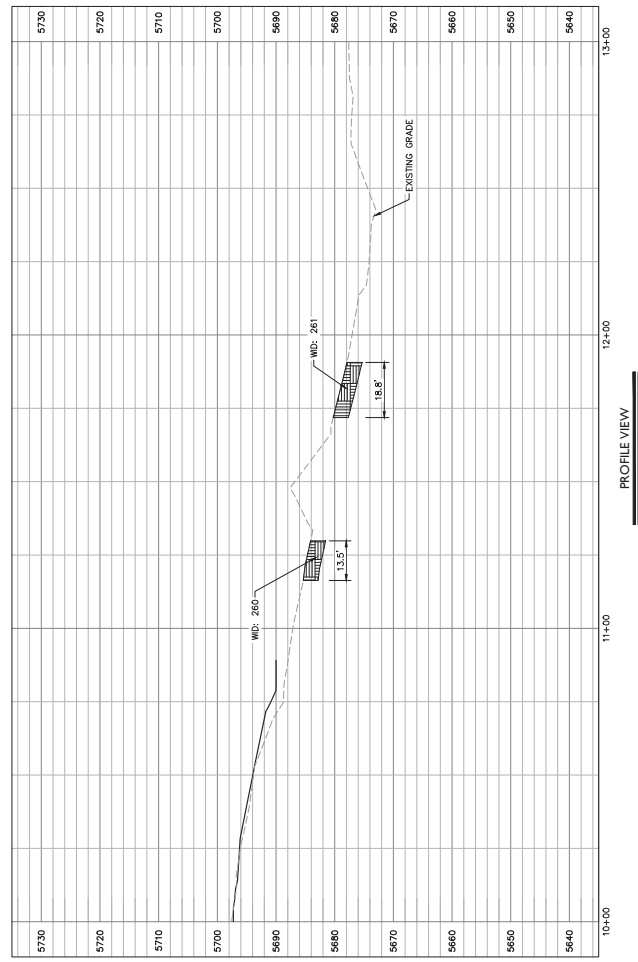


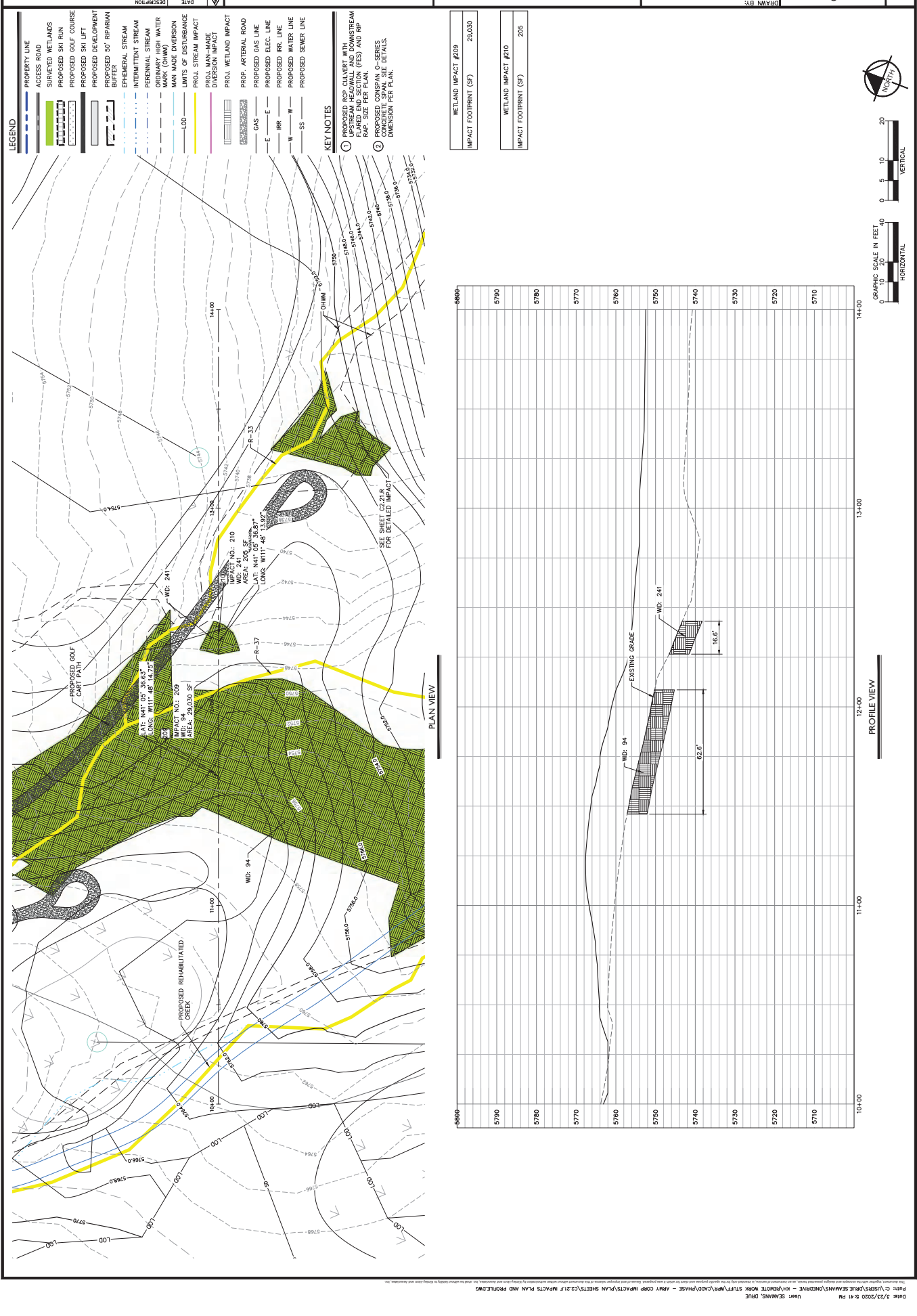


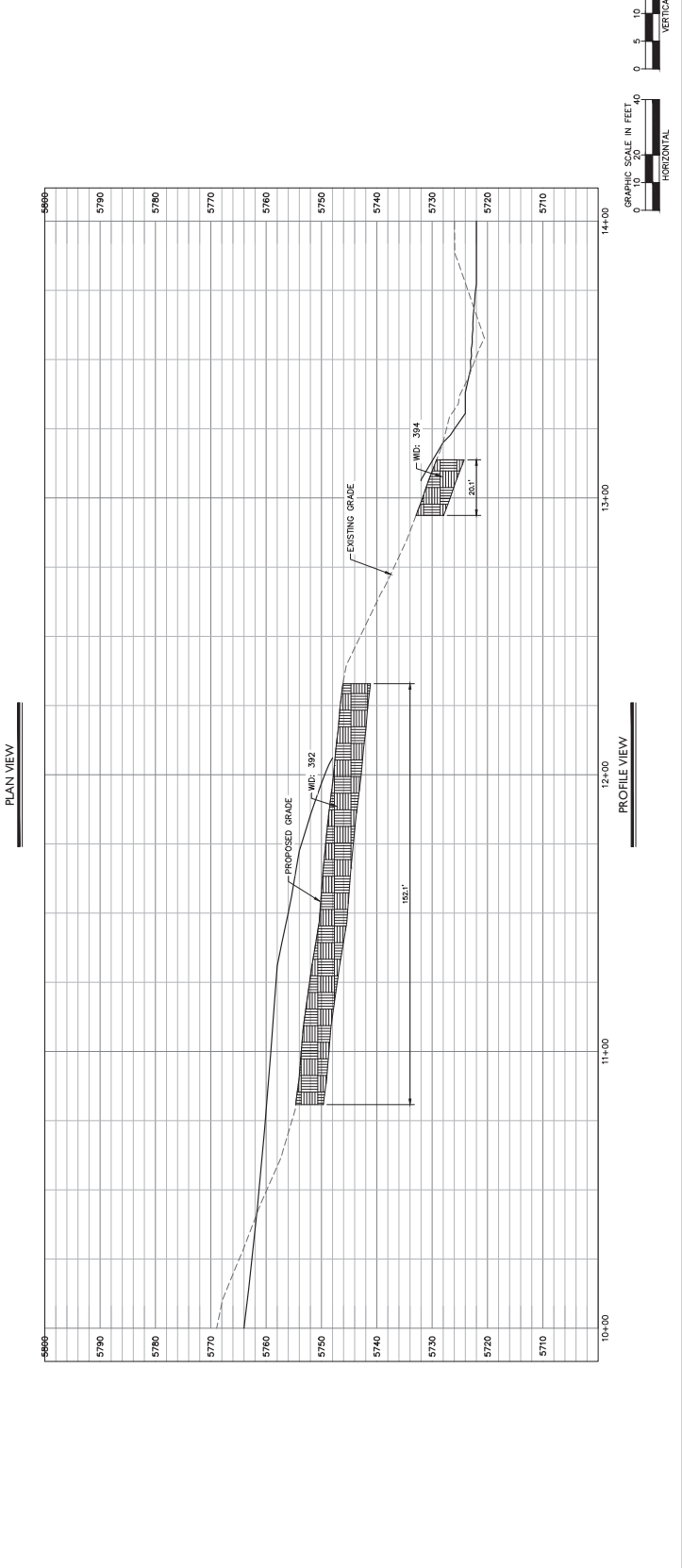


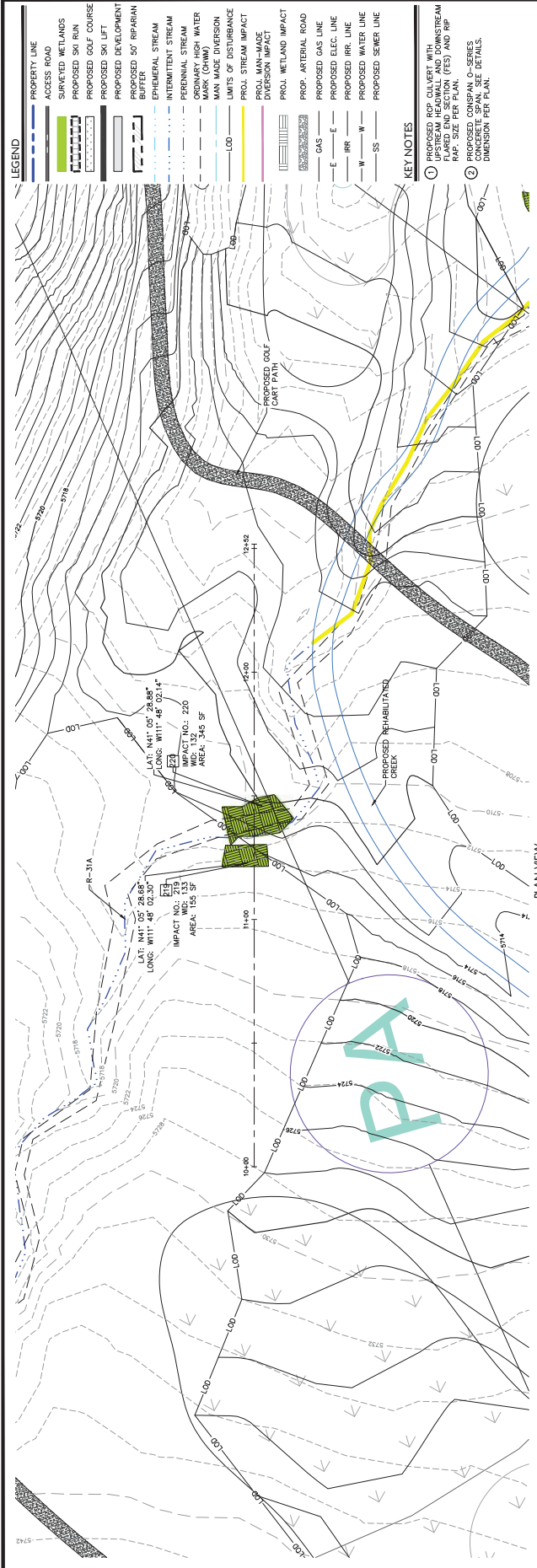
Profile view of a proposed road project. The vertical axis shows elevations from 5690 to 5740. The horizontal axis shows stationing from 10+00 to 13+00. The diagram includes an existing grade line (dashed) and a proposed grade line (solid). Three bridge structures are shown with dimensions: 10.3', 20.5', and 19.2'. Labels include 'WD: 101', 'WD: 102', and 'WD: 100'.





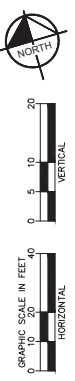
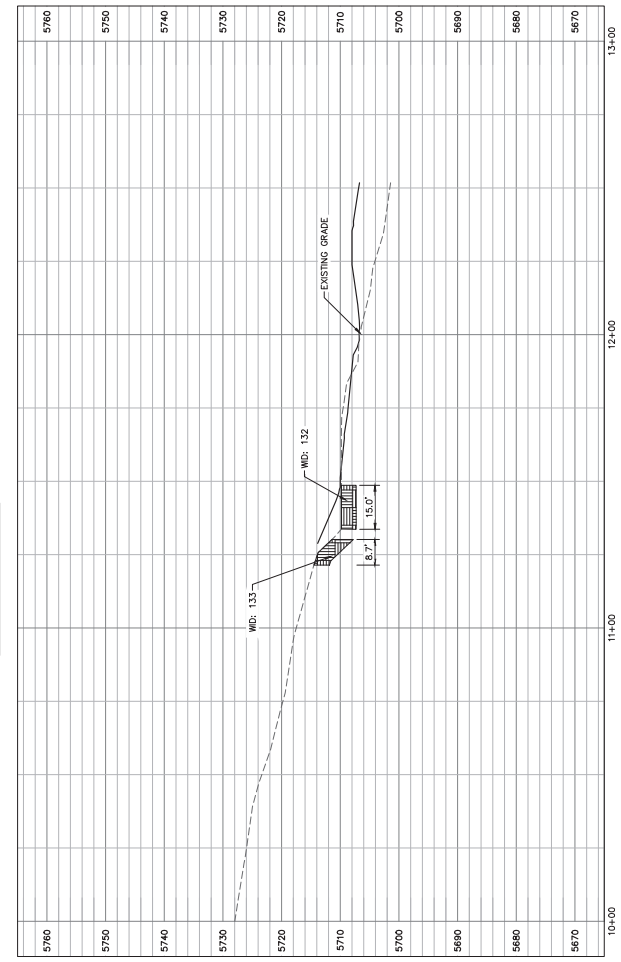


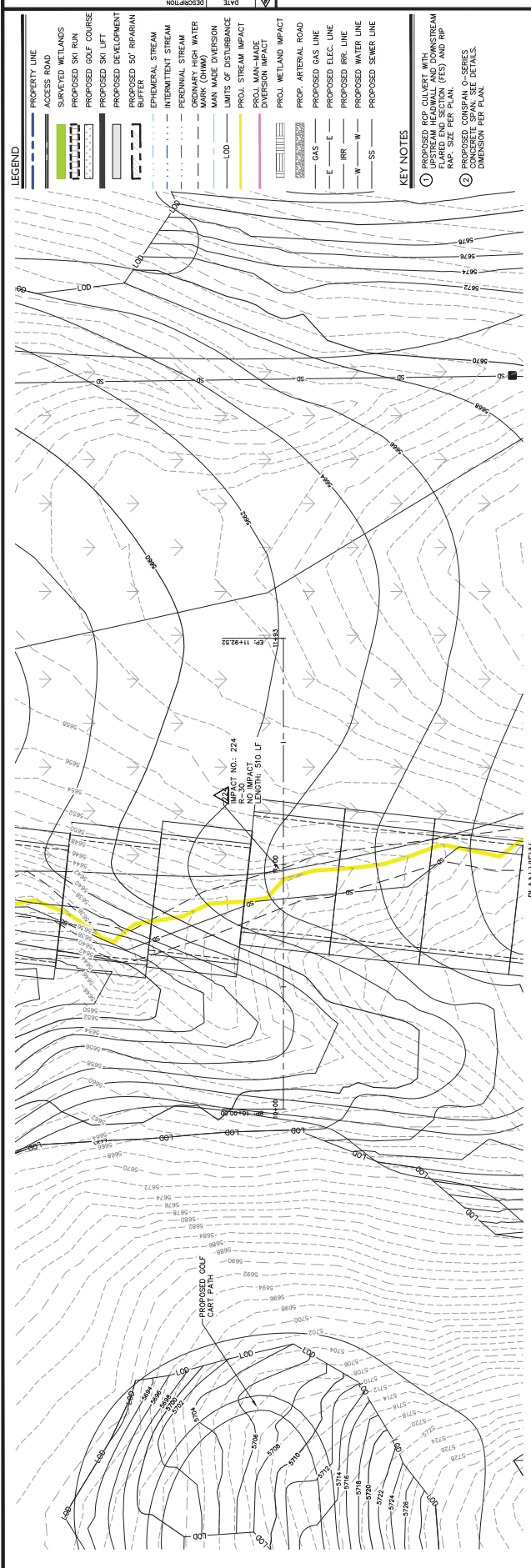




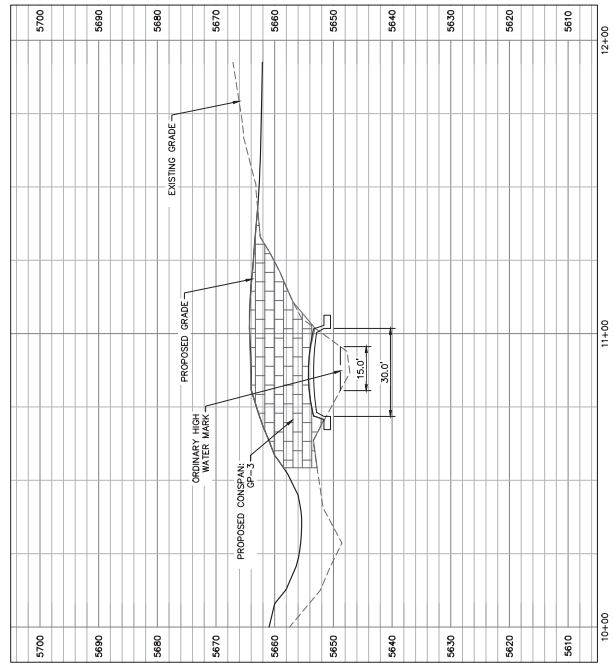
WETLAND IMPACT #219	155
IMPACT FOOTPRINT (SF)	

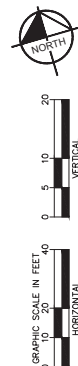
WETLAND IMPACT #220	345
IMPACT FOOTPRINT (SF)	

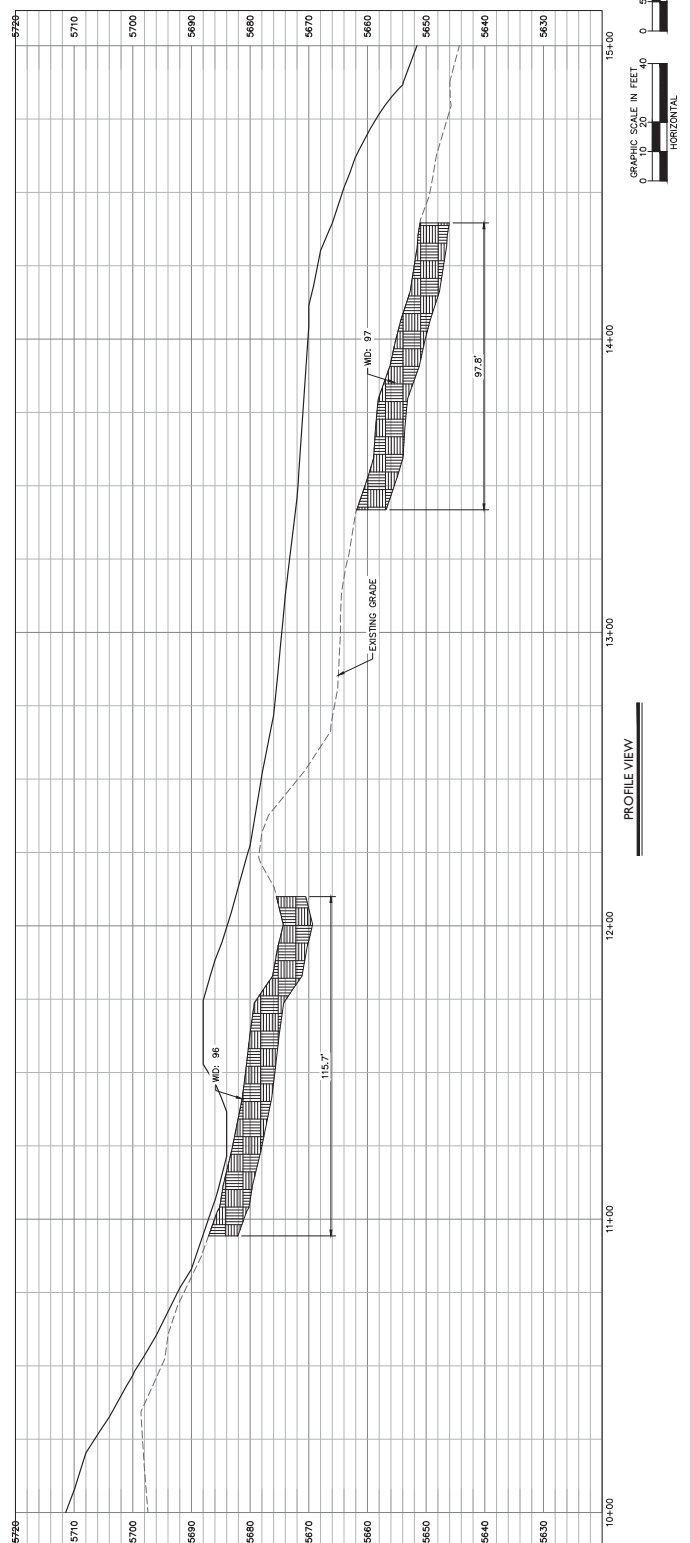
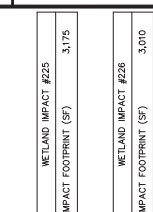




CREEK IMPACT #224	
IMPACT LENGTH (LF)	510
IMPACT WIDTH (LF)	15
IMPACT FOOTPRINT (SF)	7,650
FILL BELOW OHWM (CF)	0







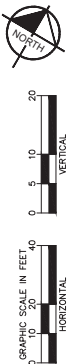
WASATCH PEAKS RANCH
MORGAN COUNTY, UTAH

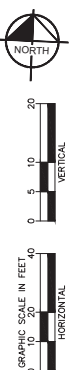
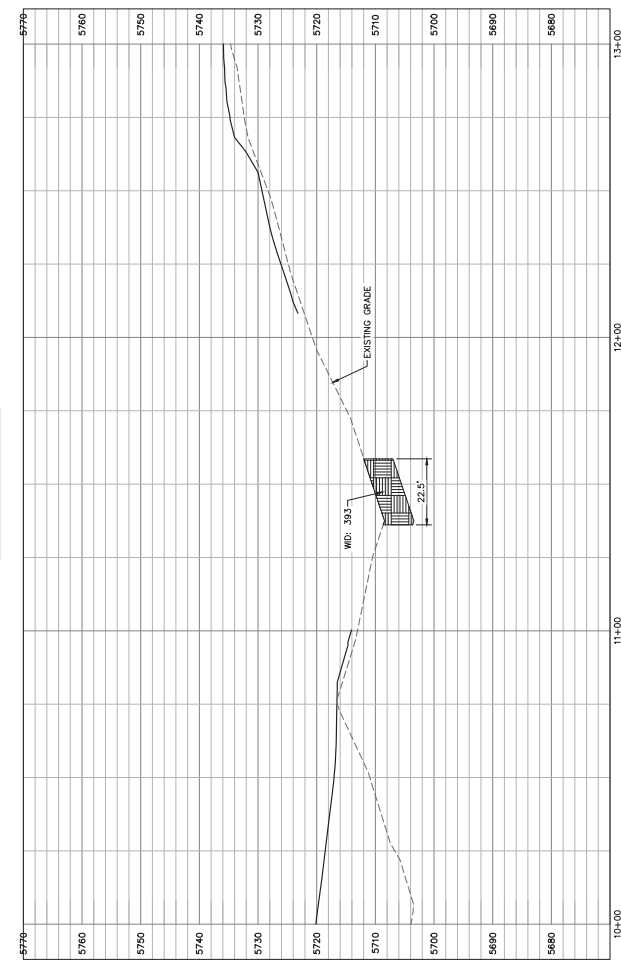
C2.21.0

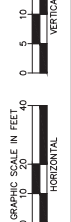


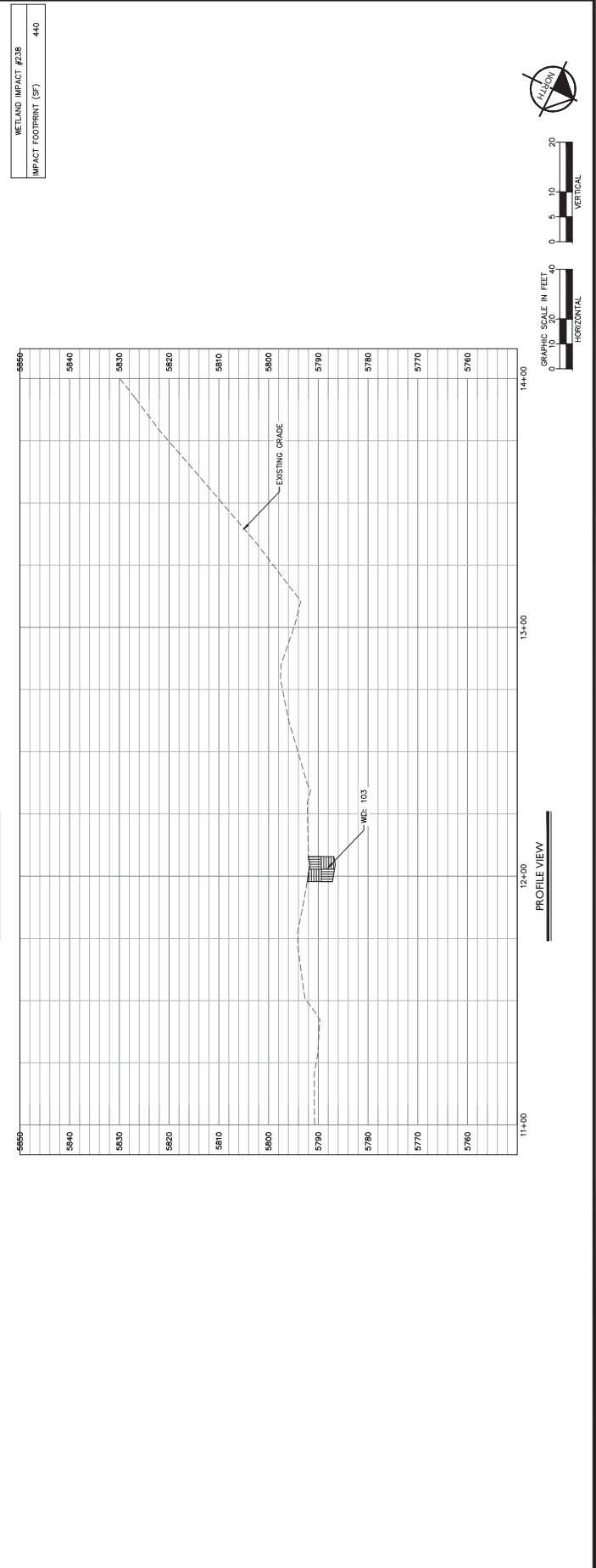
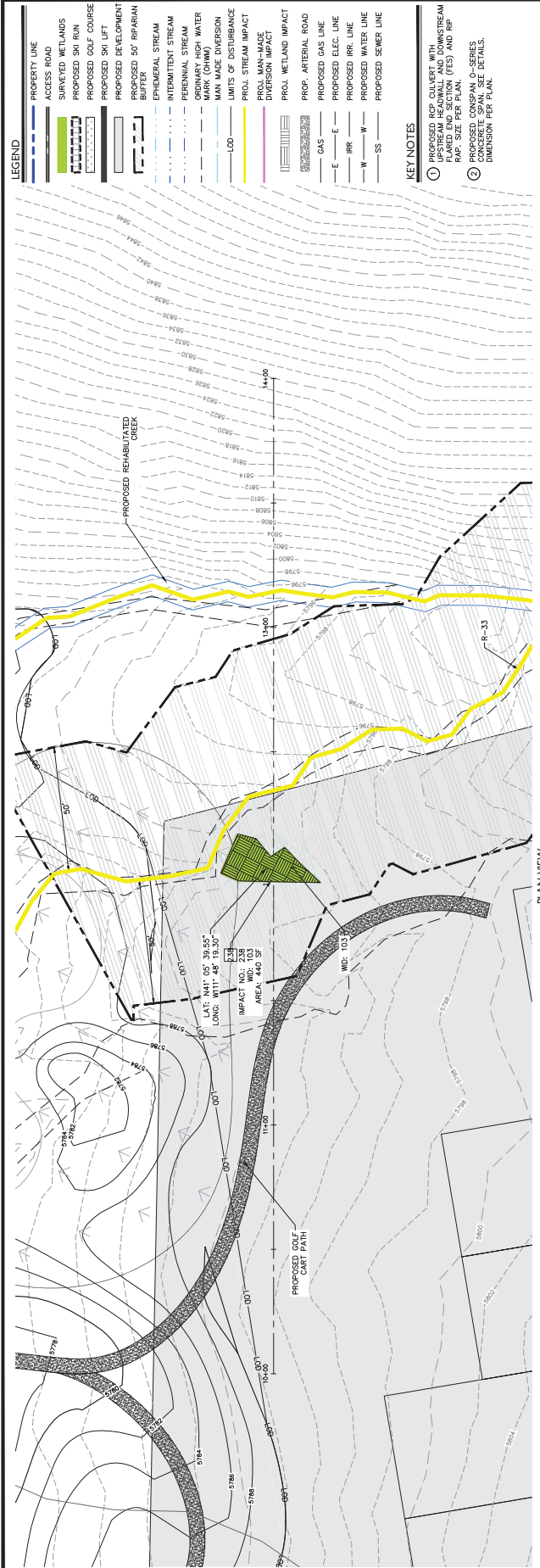
- ① PROPOSED RCP CULVERT WITH UPSTREAM HEADWALL AND DOWNSTREAM FLARED END SECTION (FES) AND RIP RAP. SIZE PER PLAN.
- ② PROPOSED CONSPAN O-SERIES CONCRETE SPAN. SEE DETAILS, DIMENSION PER PLAN.

STREAM IMPACT #229	
IMPACT LENGTH (LF)	180
IMPACT WIDTH (LF)	8
IMPACT FOOTPRINT (SF)	1,440
FILL BELOW OHWM (CF)	0





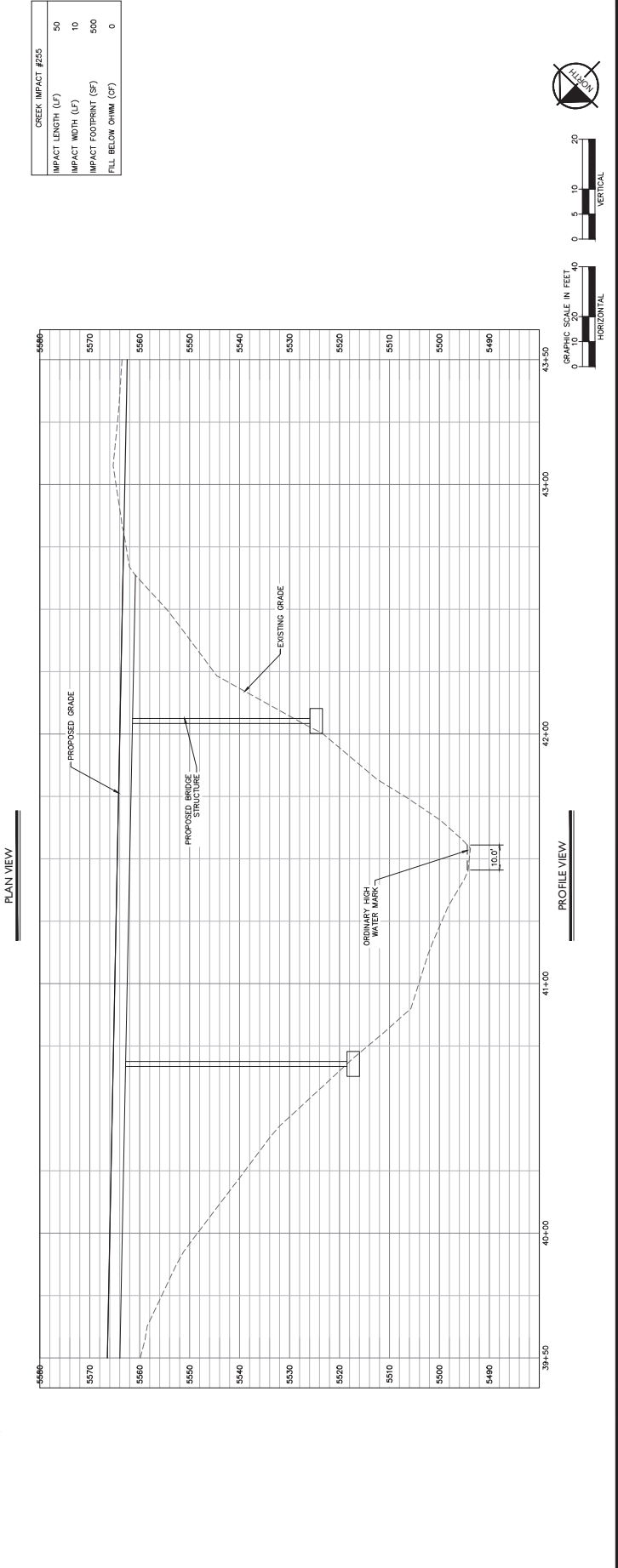
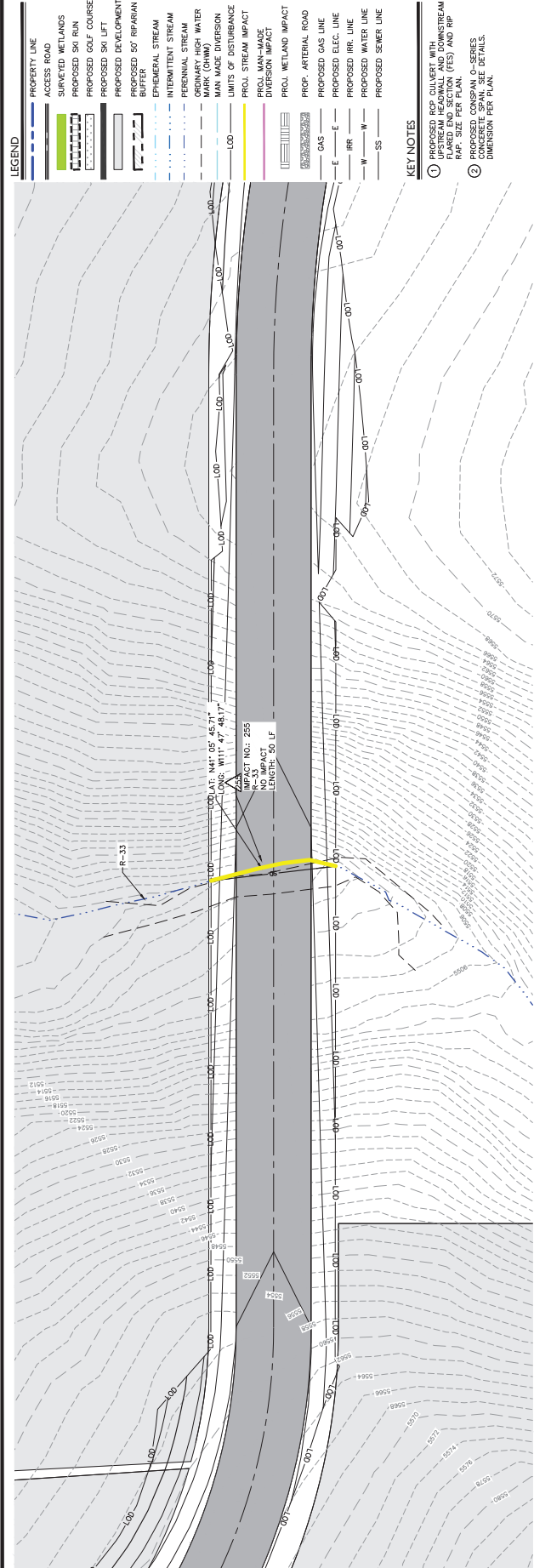


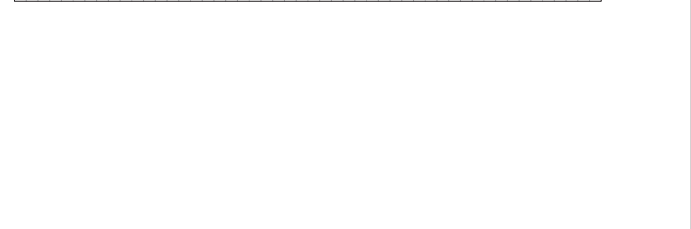
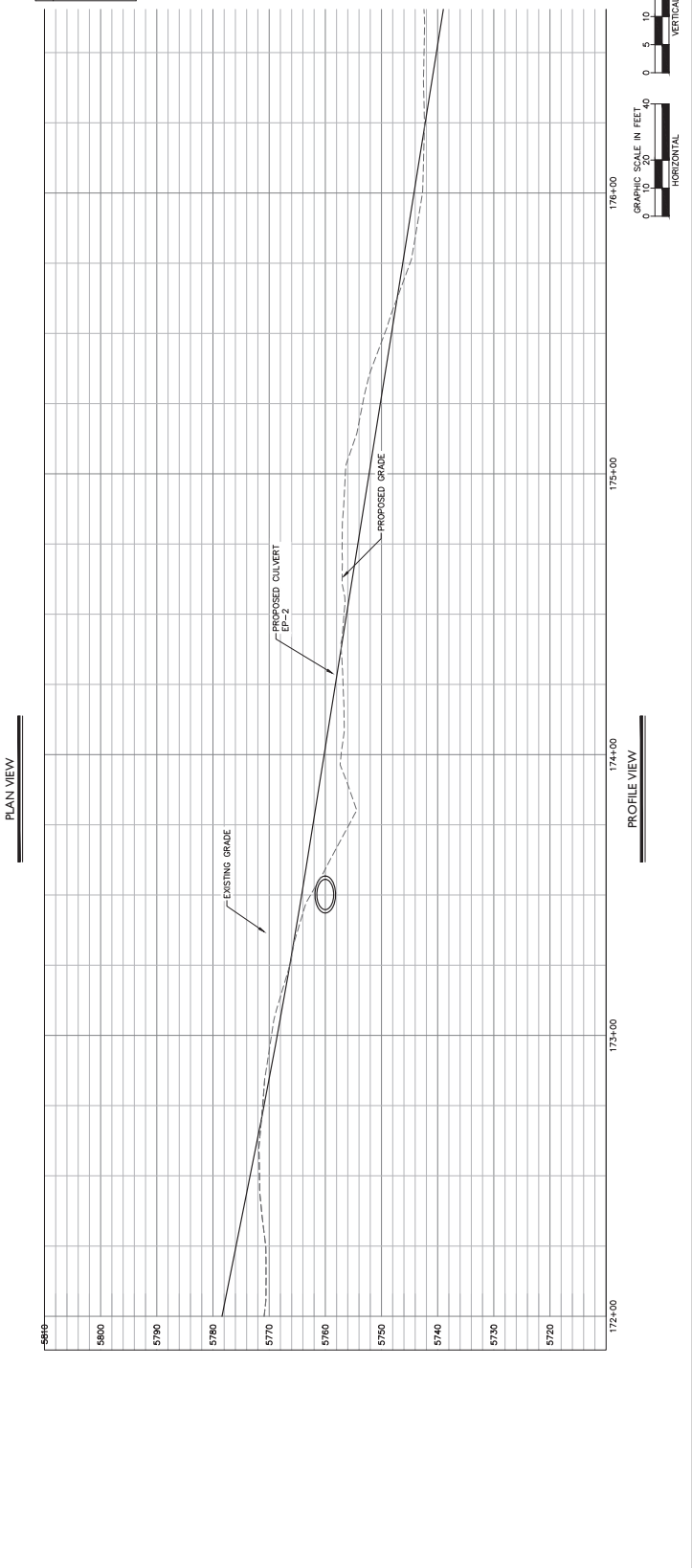




5740	<p>PROPOSED GRADE</p> <p>ORIGINAL HIGH WATER MARK</p> <p>EXISTING GRADE</p> <p>PROPOSED CONSPAN: EP-1</p> <p>18.0'</p> <p>20.6'</p>	5740
5730		5730
5720		5720
5710		5710
5700		5700
5690		5690
5680		5680





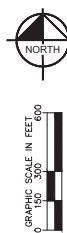




- ## KEY NOTES

PROPOSED RIPARIAN BUFFER
SECTION TOTAL: 25.9 AC

NO IMPACTS APPEAR
ON THIS SHEET



NOT FOR
CONSTRUCTION

SHEET
C2.22

WASATCH PEAKS RANCH
MORGAN COUNTY, UTAH

PROJECT No.: 096360005	SCALE: AS SHOWN
DESIGNED BY: DMS	CHECKED BY: BS
	ZAJ

Kimley»Horn
215 South State Street, Suite 400 | Salt Lake City, UT 84111 | Tel. No. (385) 212-3176

MATCHLINE - SEE SHEET C2.21

[illegible]

MATCHLINE - SEE SHEET C2.25

Date: 3/24/2020 8:05 AM
 User: SEAMANS, DRUE
 Path: C:\USERS\DRUE.SEAMANS\ONEDRIVE - KRI\REMOTE WORK STUFF\WPR\CADD\PHASE - ARMY CORP IMPACTS\PLAN SHEETS\02.22 SECTION PROPOSED.DWG



MATCHLINE - SEE SHEET C2.23



MATCHLINE - SEE SHEET C2.27

MATCHLINE - SEE SHEET C2.25

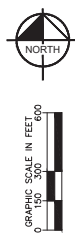
LEGEND

- PROPERTY BOUNDARY
- ACCESS ROAD
- SKI RUNS
- PROPOSED SKI LIFT
- DEVELOPMENT AREAS
- PROPOSED GOLF COURSE
- SURVEYED WETLANDS
- PROPOSED 50' RIPARIAN BUFFER
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- CREEK IMPACT NUMBER
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KEY NOTES

- A SEE DETAIL 2 SHEET C2.0 FOR PROPOSED DESIGN CROSS SECTION. THE PROPOSED DESIGN CROSS SECTION WILL RESULT IN PERMANENT IMPACTS TO STREAMS, WETLANDS, AND CREEKS. THE PROPOSED DESIGN CROSS SECTION FOR CREEK RELOCATION IS CLASSIFIED AS TEMPORARY IMPACT.
- B SEE DETAIL 3 SHEET C2.1 FOR PROPOSED DESIGN CROSS SECTION. THE PROPOSED DESIGN CROSS SECTION FOR CREEK RELOCATION IS CLASSIFIED AS TEMPORARY IMPACT.
- C RELOCATION OF CREEK IS CLASSIFIED AS TEMPORARY IMPACT. THE PROPOSED DESIGN CROSS SECTION FOR CREEK RELOCATION IS CLASSIFIED AS TEMPORARY IMPACT.
- D MATCH EXISTING AND IS CLASSIFIED AS NO IMPACT. THE PROPOSED DESIGN CROSS SECTION FOR CREEK RELOCATION IS CLASSIFIED AS TEMPORARY IMPACT.
- E WATER MARK AND IS CLASSIFIED AS NO IMPACT. THE PROPOSED DESIGN CROSS SECTION FOR CREEK RELOCATION IS CLASSIFIED AS TEMPORARY IMPACT.
- F SEE DETAIL 3 SHEET C2.1 FOR TYPICAL CREEK RELOCATION AND IMPACT. THE PROPOSED DESIGN CROSS SECTION FOR CREEK RELOCATION IS CLASSIFIED AS TEMPORARY IMPACT.
- G TEMPORARY IMPACT. THE PROPOSED DESIGN CROSS SECTION FOR CREEK RELOCATION IS CLASSIFIED AS TEMPORARY IMPACT.
- H UTILITY LINE TO BE INSTALLED VIA HORIZONTAL DIRECTIONAL DRILLING. THE PROPOSED DESIGN CROSS SECTION FOR CREEK RELOCATION IS CLASSIFIED AS TEMPORARY IMPACT.

PROPOSED RIPARIAN BUFFER
SECTION TOTAL: 102 AC



NOT FOR CONSTRUCTION

SHEET C2.24

SECTION PROPOSED
MORGAN COUNTY, UTAH
WASATCH PEAKS RANCH

PROJECT NO.:	09060005
CHECKED BY:	ZAL
DESIGNED BY:	DMS
DRAWN BY:	DMS
SCALE:	AS SHOWN

Kimley-Horn
215 South State Street, Suite 200, Salt Lake City, UT 84111 | TEL: 801.224.3176

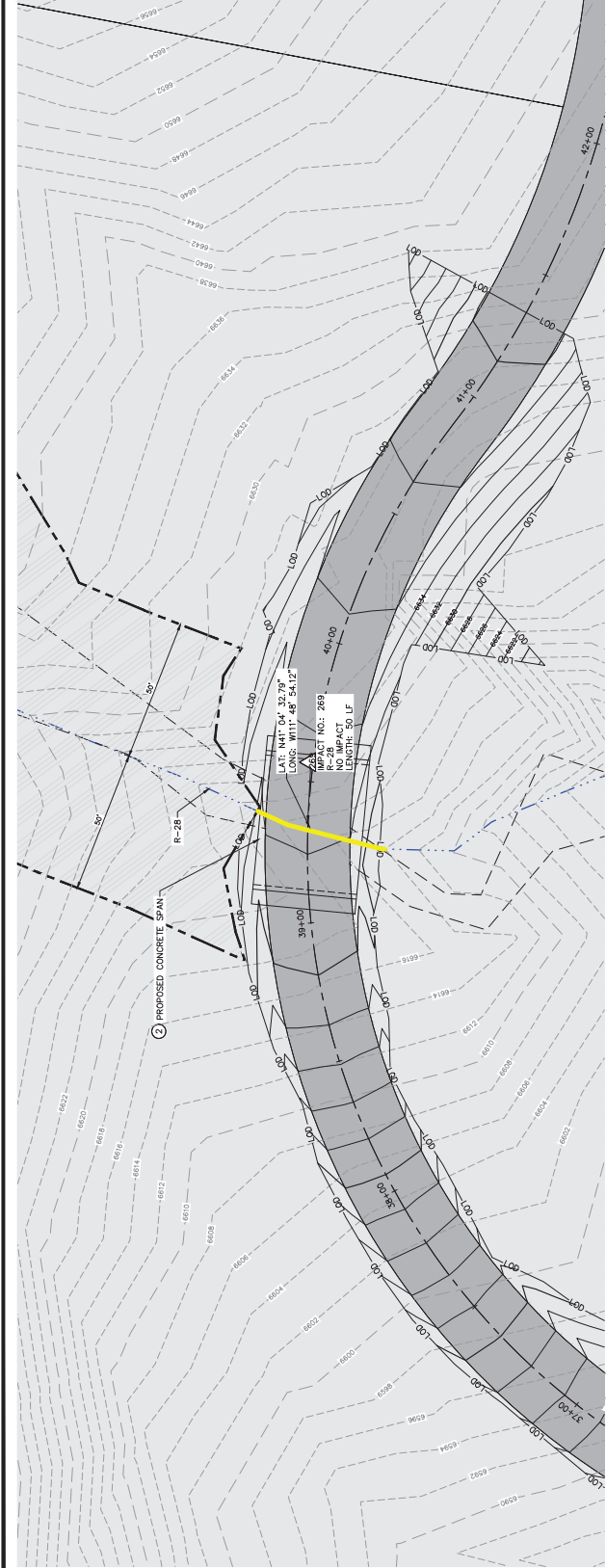
LEGEND

- PROPERTY LINE
- ACCESS ROAD
- SURVEYED WETLANDS
- PROPOSED SKI RUN
- PROPOSED GOLF COURSE
- PROPOSED 50' RIPARIAN BUFFER
- PROPOSED DEVELOPMENT
- PROPOSED 50' RIPARIAN BUFFER
- INTERMITTENT STREAM
- PERENNIAL STREAM
- WETLAND HIGH WATER MARK (TOWN)
- MAN MADE DIVERSION
- LIMITS OF DISTURBANCE
- PROL. STREAM IMPACT
- PROL. MAN-MADE DIVERSION IMPACT
- PROL. WETLAND IMPACT
- PROP. ARTERIAL ROAD
- PROPOSED GAS LINE
- PROPOSED ELEC. LINE
- PROPOSED IRR. LINE
- PROPOSED WATER LINE
- PROPOSED SEWER LINE

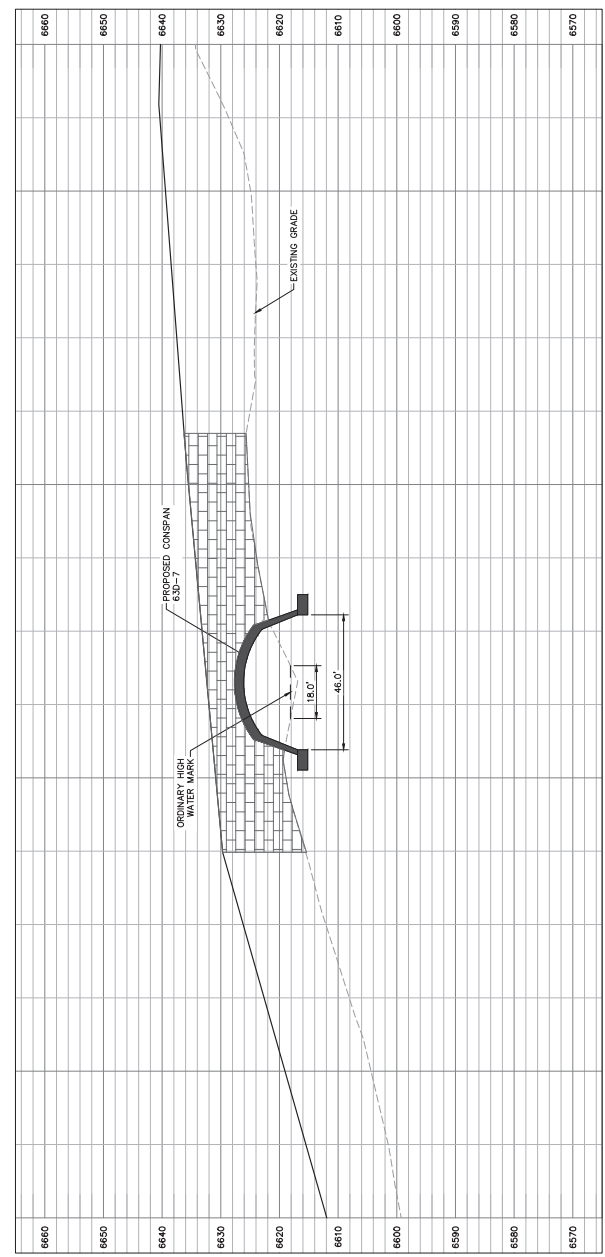
KEY NOTES

- PROPOSED RCP CULVERT WITH 15' SPAN AND 12' CLEARANCE OVER EXISTING 12" DRAINAGE DITCH. SEE PLAN FOR FLARED END SECTION (FES) AND RIP. RAP SIZE PER PLAN.
- PROPOSED CONSPAN O-SERIES 15' SPAN. SEE PLAN FOR FLARED END SECTION (FES) AND RIP. RAP SIZE PER PLAN.

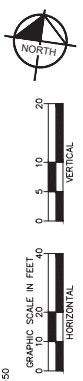
STREAM IMPACT #269	
IMPACT LENGTH (LF)	50
IMPACT WIDTH (LF)	18
IMPACT FOOTPRINT (SF)	900
FILL BELOW OHWM (CY)	0

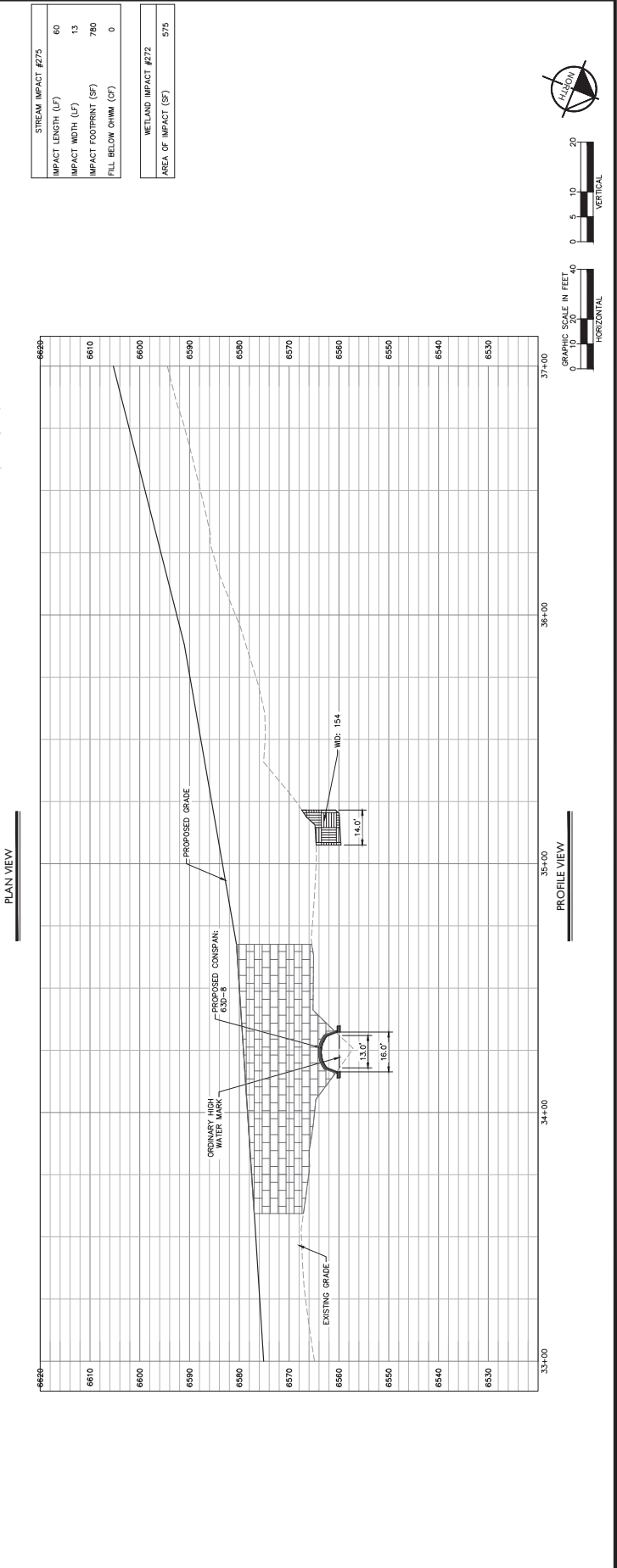
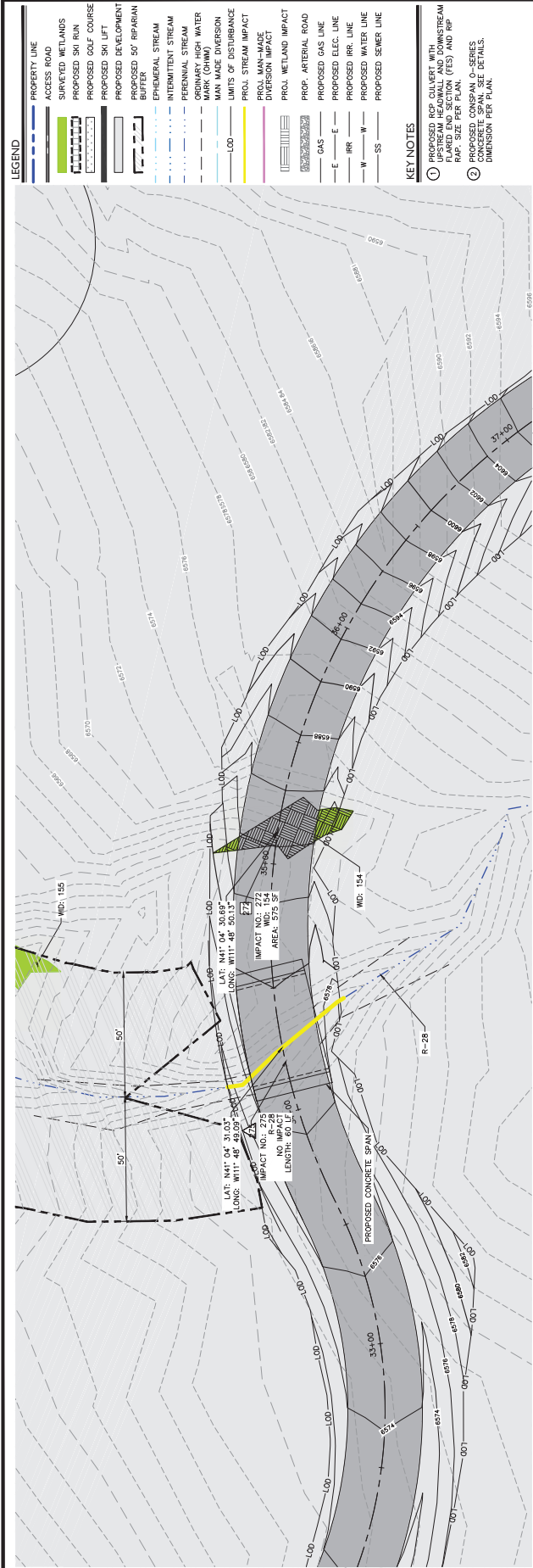


PLAN VIEW



PROFILE VIEW

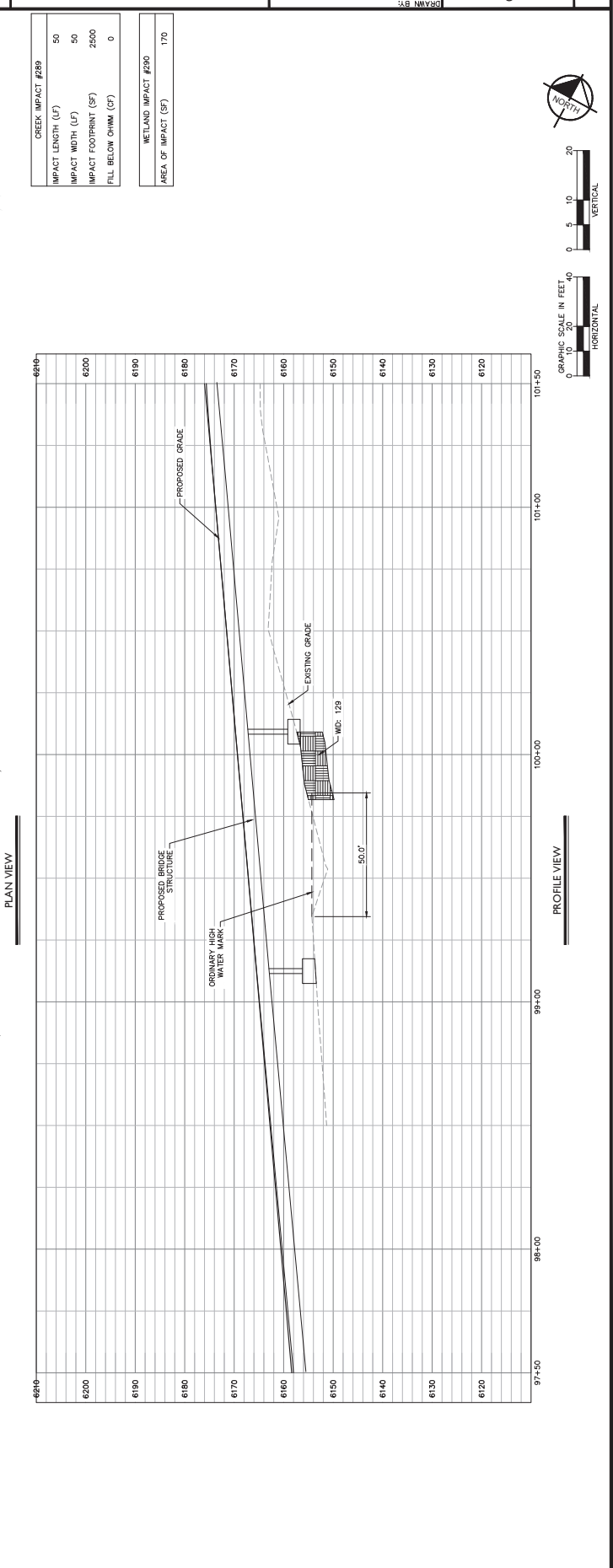
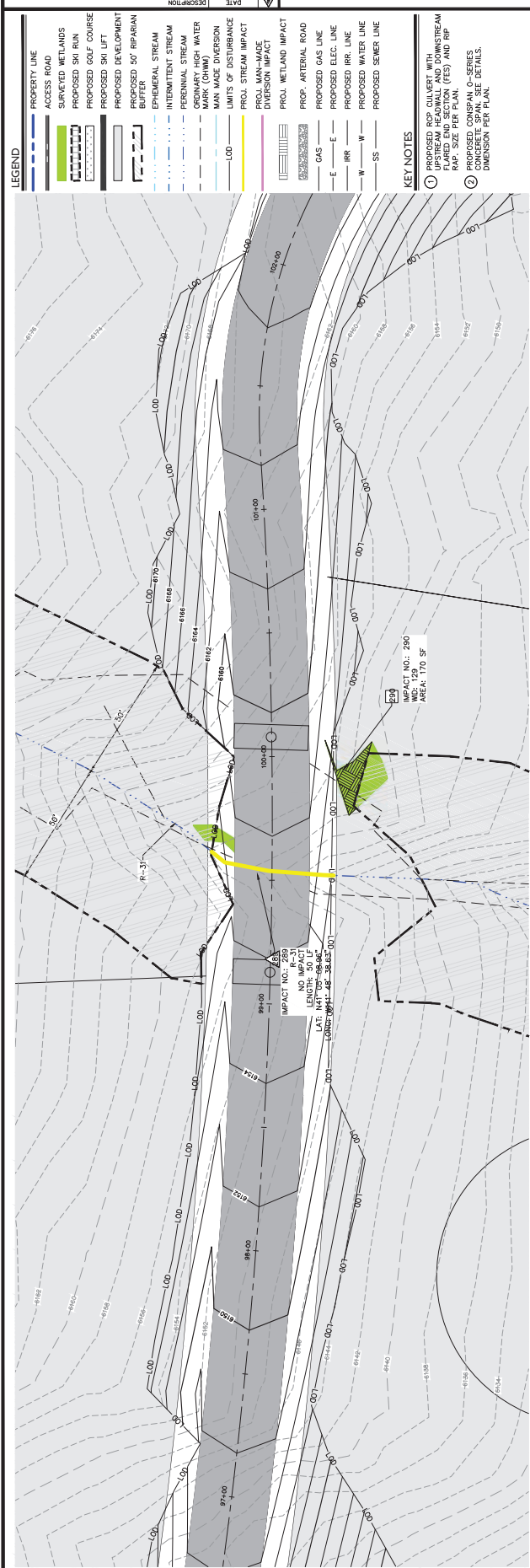






The profile view shows the vertical alignment of the proposed road. The horizontal axis represents stationing from 6250 to 6160. The vertical axis represents elevation from 6160 to 6250 feet. A solid line represents the 'PROPOSED GRADE', which starts at approximately 6230 feet at station 6250 and descends to about 6185 feet at station 6160. A dashed line represents the 'EXISTING GRADE', which follows a similar but lower path, starting at approximately 6220 feet at station 6250 and ending at about 6175 feet at station 6160. A horizontal line at approximately 6225 feet elevation is labeled 'PRIMARY HIGH WATER MARK'. A circular structure representing a culvert is shown at station 6185, with a vertical dimension of 10.0' indicating its height. The culvert is labeled 'PROPOSED CULVERT 63'-5''. The ground surface is shown as a dashed line starting at station 6230 and ending at station 6160, with a peak at station 6185.





SEAL

SCALE:	05
AS SHOWN	
	VAJ
	SE
	SW

Kimley»Horn
1715 South State Street, Suite 400 | Salt Lake City, UT 84111 | Tel. N
(385) 212-3176

DESCRIPTION	DATE	
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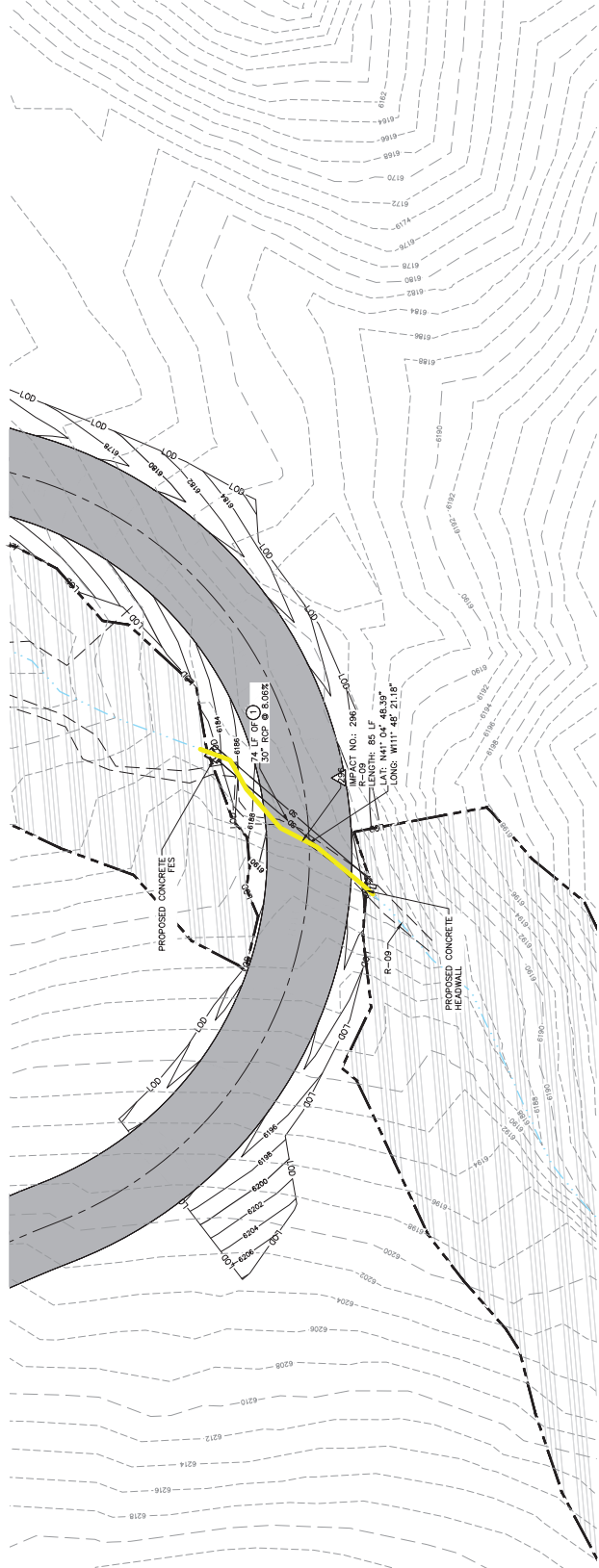
LEGEND

- | | |
|--|---------------------------------|
| | PROPERTY LINE |
| | ACCESS ROAD |
| | SURVEYED WETLANDS |
| | PROPOSED SKI RUN |
| | PROPOSED GOLF COURSE |
| | PROPOSED SKI LIFT |
| | PROPOSED DEVELOPMENT |
| | PROPOSED 50' RIPARIAN BUFFER |
| | EPHEMERAL STREAM |
| | PERMANENT STREAM |
| | PERENNIAL STREAM |
| | ORDINARY HIGH WATER |
| | PROPOSED MAN-MADE DIVERSION |
| | LIMITS OF DISBURSANCE |
| | PROL. STREAM IMPACT |
| | PROL. MAN-MADE DIVERSION IMPACT |
| | PROL. WETLAND IMPACT |
| | PROP. ARTERIAL ROAD |
| | PROPOSED GAS LINE |
| | PROPOSED ELEC. LINE |
| | PROPOSED RR LINE |
| | PROPOSED WATER LINE |
| | PROPOSED SEWER LINE |

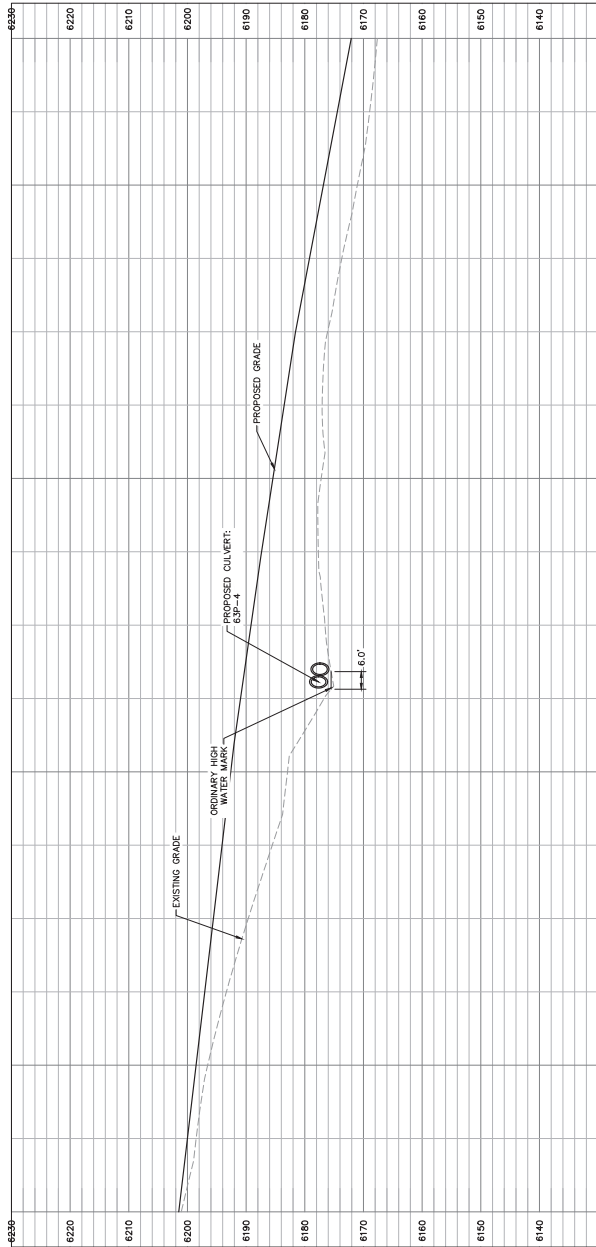
KEY NOTES

- ① PROPOSED RCP CULVERT WITH UPSTREAM HEADWALL AND DOWNSTREAM FLARED END SECTION (FES) AND RIP RAP. SIZE PER PLAN.
- ② PROPOSED CONSPAN O-SERIES CONCRETE SPAN. SEE DETAILS. DIMENSION PER PLAN.

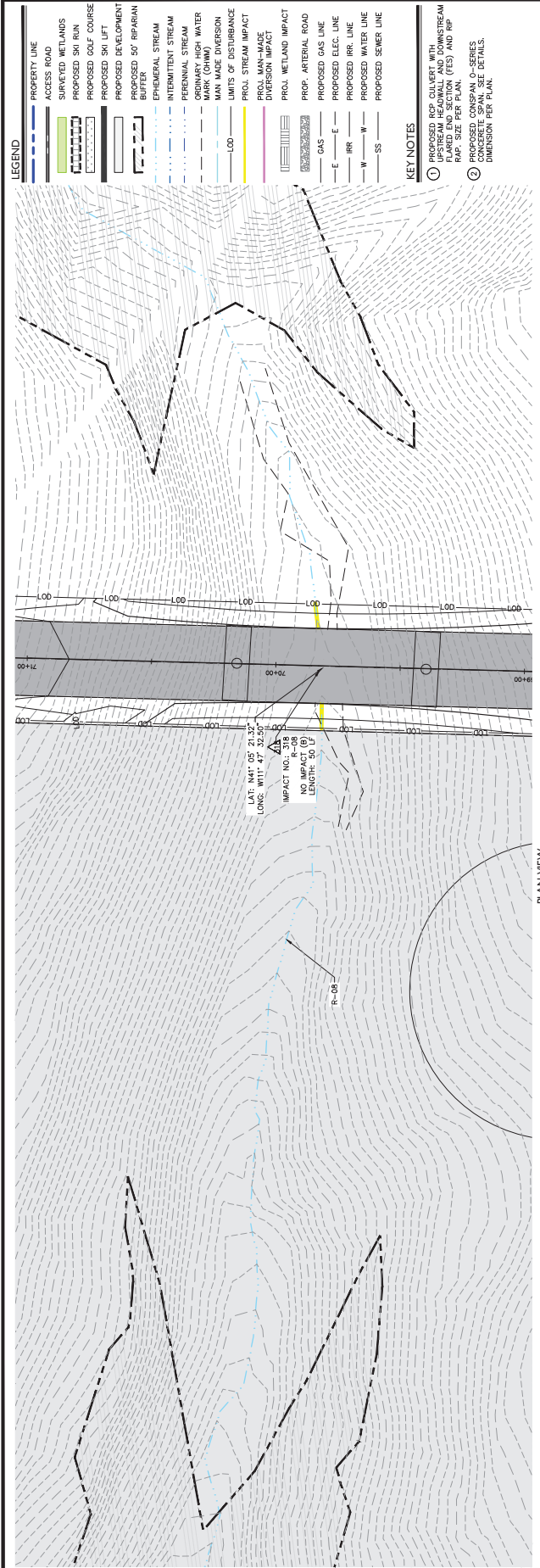
CREEK IMPACT #296	85
IMPACT LENGTH (LF)	
IMPACT WIDTH (LF)	6
IMPACT FOOTPRINT (SF)	510
FILL BELOW OHMM (CF)	128



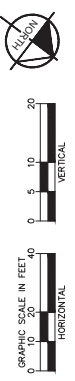
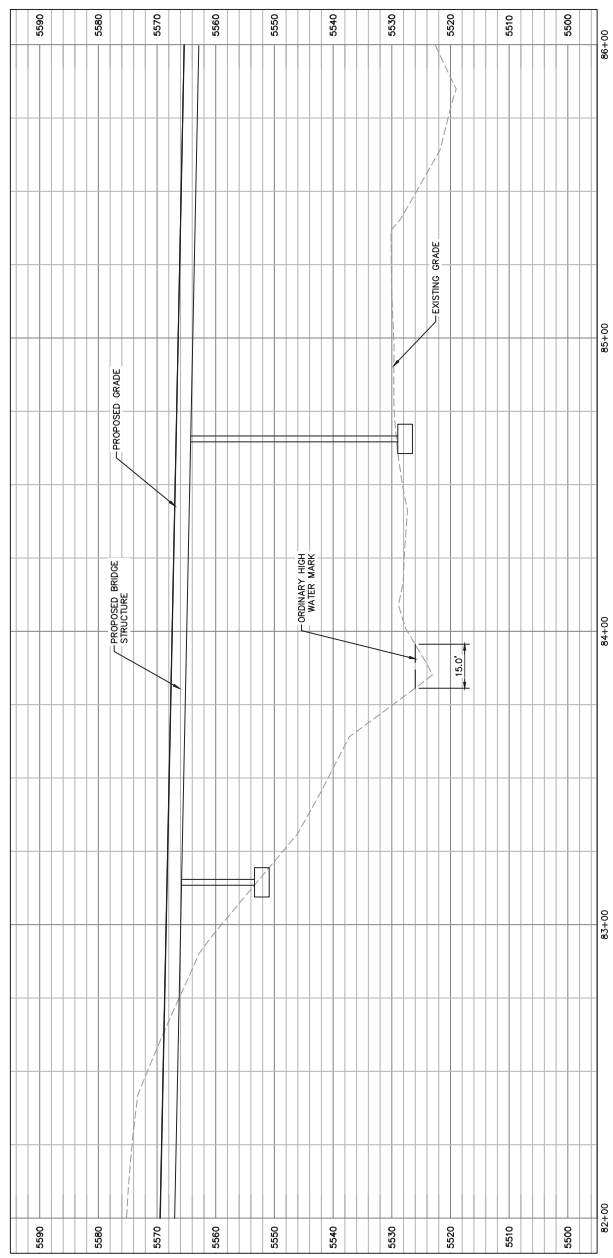
PLAN VIEW

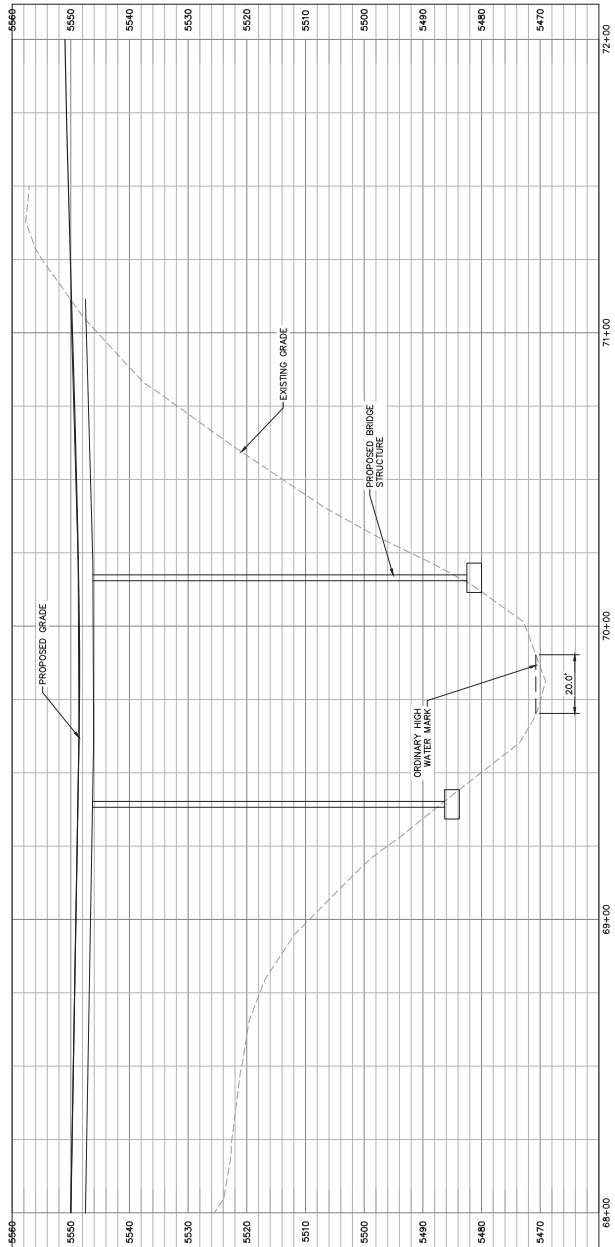
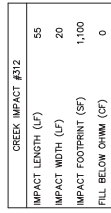


PROFILE VIEW



CREEK IMPACT #318			
IMPACT LENGTH (LF)	30		
IMPACT WIDTH (LF)	15		
IMPACT FOOTPRINT (SF)	750		
FILL BELOW OHWM (CY)	0		







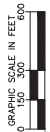
LEGEND

...

KEY POINTS

ANTICIPATED AS

NO IMPACTS APPEAR
ON THIS SHEET



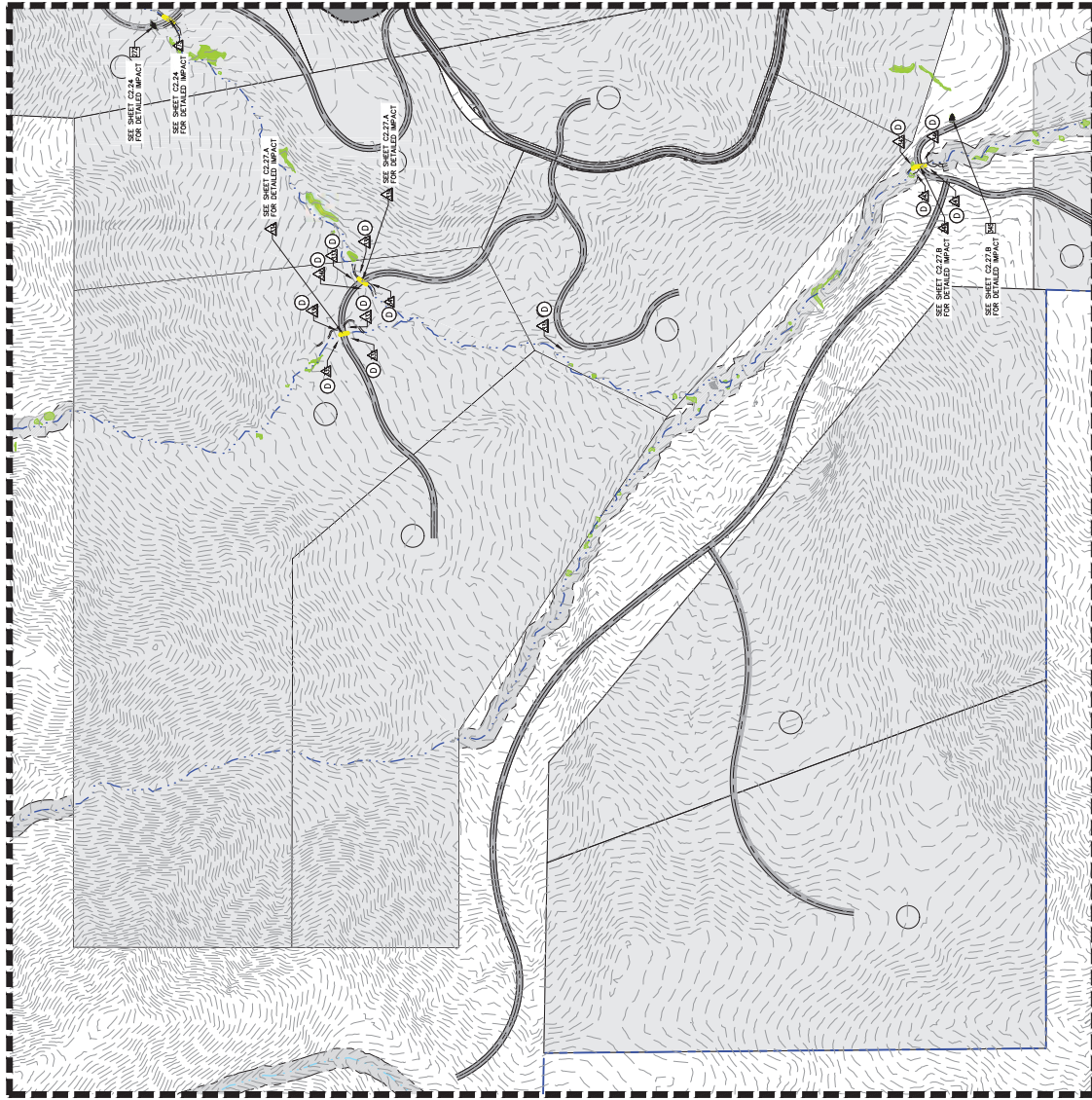
SHEET
C2.26

SECTION PROPOSED

Kimley»Horn

PROJECT NO.:	SCALE:
CHECKED BY:	ZAJ
DESIGNED BY:	BS
DMS	

MATCHLINE - SEE SHEET C2.26



MATCHLINE - SEE SHEET C2.28

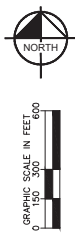
LEGEND

- PROPERTY BOUNDARY
- ACCESS ROAD
- SKI RUNS
- PROPOSED SKI LIFT
- DEVELOPMENT AREAS
- PROPOSED GOLF COURSE
- SURVEYED WETLANDS
- PROPOSED 50' RIPARIAN BUFFER
- EPIHEMERAL CREEK
- INTERMITTENT CREEK
- PERENNIAL CREEK
- ORDINARY HIGH WATER MARK (OHWM)
- MAN-MADE DIVERSION
- NEW/OLD CANAL
- LIMITS OF DISTURBANCE
- PROJECTED CREEK IMPACT
- PROJECTED MAN-MADE DIVERSION IMPACT
- PROJECTED WETLAND IMPACT
- PROPOSED ARTERIAL ROAD
- PROPOSED GAS LINE
- PROPOSED ELECTRICAL LINE
- PROPOSED IRRIGATION LINE
- PROPOSED WATER LINE
- PROPOSED SEWER LINE
- CREEK IMPACT NUMBER
- WETLAND IMPACT NUMBER
- MAN MADE DIVERSION IMPACT NUMBER

KEY NOTES

- A SEE DETAIL 2 SHEET C3.0 FOR PROPOSED DESIGN CROSS SECTION. THE PROPOSED DESIGN CROSS SECTION WILL RESULT IN PERMANENT IMPACTS TO STREAMS, WETLANDS, AND RIPARIAN AREAS. SEE DETAIL 2 SHEET C3.0 FOR PROPOSED DESIGN CROSS SECTION FOR CREEK RELOCATION (SEE DETAIL 2 SHEET C3.0 FOR CREEK RELOCATION).
- B RELOCATION OF CREEK IS CLASSIFIED AS TEMPORARY IMPACT. MATCH EXISTING AND IS CLASSIFIED AS NO IMPACT.
- C DETAIL 2 SHEET C3.0 FOR PROPOSED DESIGN CROSS SECTION FOR SPONGE OVER WETLANDS (SEE OTHERS). (GRADE WILL BE LOCATED ABOVE ORDINARY HIGH WATER MARK AND IS CLASSIFIED AS NO IMPACT.)
- D DETAIL 2 SHEET C3.0 FOR PROPOSED DESIGN CROSS SECTION. BRIDGE TO BE DESIGNED TO SPAN ORDINARY HIGH WATER MARK AND IS CLASSIFIED AS NON-JURISDICTIONAL IMPACT. BRIDGE TO BE DESIGNED TO SPAN ORDINARY HIGH WATER MARK AND IS CLASSIFIED AS NON-JURISDICTIONAL IMPACT.
- E SEE DETAIL 3 SHEET C3.1 FOR TYPICAL CREEK RELOCATION AND PROTECTION DETAIL.
- F SEE DETAIL 3 SHEET C3.1 FOR TYPICAL CREEK RELOCATION AND PROTECTION DETAIL.
- G TEMPORARY IMPACT TYPE CLASSIFIED AS PERMANENT.
- H UTILITY LINE TO BE INSTALLED VIA HORIZONTAL DIRECTIONAL DRILLING. IMPACT TYPE CLASSIFIED AS NO IMPACT.
- I ANTICIPATED AS NO IMPACT.

PROPOSED RIPARIAN BUFFER
SECTION TOTAL: 30.7 AC



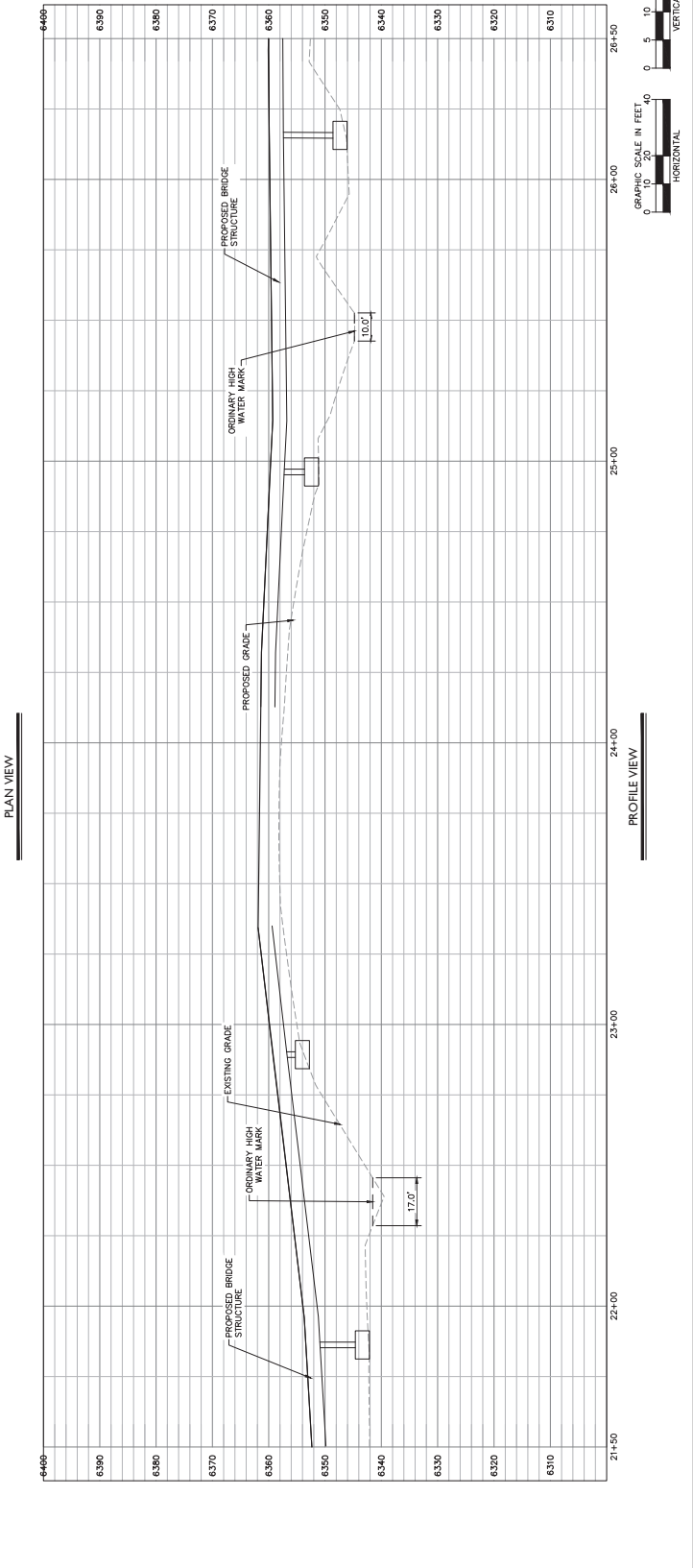
SHEET
C2.27

NOT FOR
CONSTRUCTION

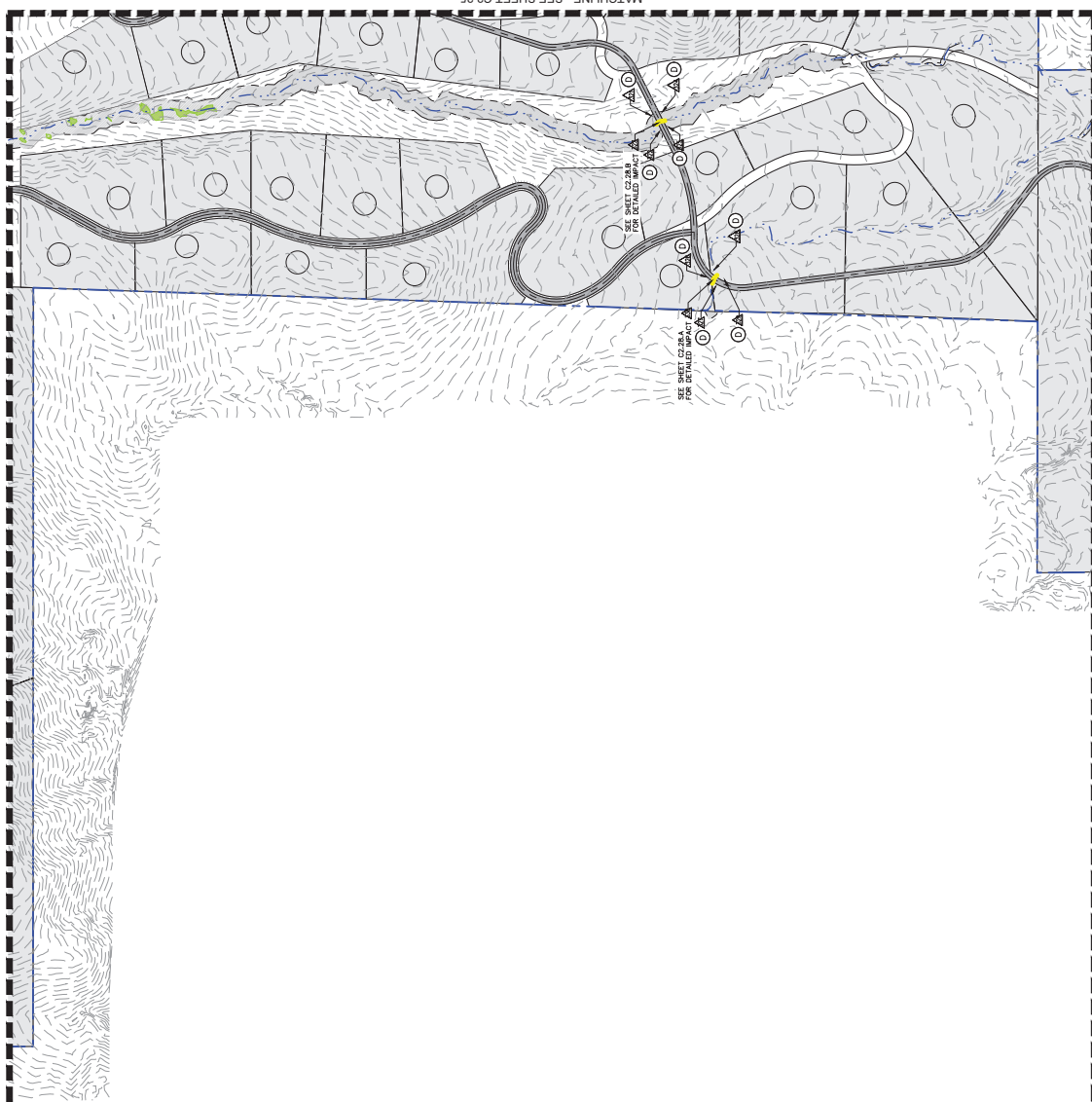
PROJECT NO.:	090360005
CHECKED BY:	JAL
DESIGNED BY:	BS
DRAWN BY:	DMS
AS SHOWN	

SECTION PROPOSED
WASATCH PEAKS RANCH
MORGAN COUNTY, UTAH

Kimley-Horn
215 South State Street, Suite 200, Salt Lake City, UT 84111 | TEL: 801.224.2176



MATCHLINE - SEE SHEET C2.27



MATCHLINE - SEE SHEET C2.29

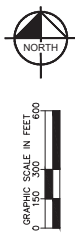
LEGEND

- PROPERTY BOUNDARY
- ACCESS ROAD
- SKI RUNS
- PROPOSED SKI LIFT
- DEVELOPMENT AREAS
- PROPOSED GOLF COURSE
- SURVEYED WETLANDS
- PROPOSED 50' RIPARIAN BUFFER
- EPHEMERAL CREEK
- INTERMITTENT CREEK
- PERENNIAL CREEK
- ORDINARY HIGH WATER MARK (OHWM)
- MAN-MADE DIVERSION
- NEW/OLD CANAL
- LIMITS OF DISTURBANCE
- PROJECTED CREEK IMPACT
- PROJECTED MAN-MADE DIVERSION IMPACT
- PROJECTED WETLAND IMPACT
- PROPOSED ARTERIAL ROAD
- PROPOSED GAS LINE
- PROPOSED ELECTRICAL LINE
- PROPOSED IRRIGATION LINE
- PROPOSED WATER LINE
- PROPOSED SEWER LINE
- CREEK IMPACT NUMBER
- WETLAND IMPACT NUMBER
- MAN MADE DIVERSION IMPACT NUMBER

KEY NOTES

- A SEE DETAIL 2 SHEET C3.0 FOR PROPOSED DESIGN CROSS SECTION. THE PROPOSED DESIGN CROSS SECTION WILL BE INSTALLED IN PERMANENT IMPACTS TO STREAMS. STRUCTURE WILL BE INSTALLED IN PERMANENT IMPACTS TO STREAMS. SEE DETAIL 2 SHEET C3.0 FOR PROPOSED DESIGN CROSS SECTION FOR CREEK RELOCATION (SEE DETAIL 2 SHEET C3.0 FOR CREEK RELOCATION).
- B RELOCATION OF CREEK IS CLASSIFIED AS TEMPORARY IMPACT. SEE DETAIL 2 SHEET C3.0 FOR PROPOSED DESIGN CROSS SECTION FOR CREEK RELOCATION (SEE DETAIL 2 SHEET C3.0 FOR CREEK RELOCATION).
- C MATCH EXISTING AND IS CLASSIFIED AS NO IMPACT. SEE DETAIL 2 SHEET C3.0 FOR PROPOSED DESIGN CROSS SECTION FOR CREEK RELOCATION (SEE DETAIL 2 SHEET C3.0 FOR CREEK RELOCATION).
- D DETAIL OUTFALL WILL BE LOCATED ABOVE ORDINARY HIGH WATER MARK AND IS CLASSIFIED AS NO IMPACT. SEE DETAIL 2 SHEET C3.0 FOR PROPOSED DESIGN CROSS SECTION FOR CREEK RELOCATION (SEE DETAIL 2 SHEET C3.0 FOR CREEK RELOCATION).
- E WATER MARK AND IS CLASSIFIED AS NO IMPACT. SEE DETAIL 2 SHEET C3.0 FOR PROPOSED DESIGN CROSS SECTION FOR CREEK RELOCATION (SEE DETAIL 2 SHEET C3.0 FOR CREEK RELOCATION).
- F SEE DETAIL 3 SHEET C3.1 FOR TYPICAL CREEK RELOCATION AND TEMPORARY IMPACT. SEE DETAIL 3 SHEET C3.1 FOR TYPICAL CREEK RELOCATION AND TEMPORARY IMPACT.
- G TEMPORARY IMPACT. SEE DETAIL 3 SHEET C3.1 FOR TYPICAL CREEK RELOCATION AND TEMPORARY IMPACT.
- H UTILITY LINE TO BE INSTALLED VIA HORIZONTAL DIRECTIONAL DRILLING. SEE DETAIL 3 SHEET C3.1 FOR TYPICAL CREEK RELOCATION AND TEMPORARY IMPACT.

PROPOSED RIPARIAN BUFFER
SECTION TOTAL 16.7 AC



LEGEND

PROPERTY LINE

ACCESS ROAD

SURVEYED WETLANDS

PROPOSED SKI RUN

PROPOSED GOLF COURSE

PROPOSED SKI LIFT

PROPOSED DEVELOPMENT

PROPOSED 50' RIPARIAN BUFFER

PERMANENT STREAM

INTERMITTENT STREAM

PERENNIAL STREAM

PERMANENT WATER MARK (TOWING)

MAN MADE DIVERSION

LIMITS OF DISTURBANCE

PROL. STREAM IMPACT

PROL. MAN-MADE DIVERSION IMPACT

PROL. WETLAND IMPACT

PROP. ARTERIAL ROAD

PROPOSED GAS LINE

PROPOSED ELEC. LINE

PROPOSED IRR. LINE

PROPOSED WATER LINE

PROPOSED SEWER LINE

KEY NOTES

1 PROPOSED ROP CULVERT WITH 15' OVERPASS OVER WETLANDS. FLARED END SECTION (FES) AND RIP RAP SIZE PER PLAN.

2 PROPOSED CONSPAN O-SERIES DIMENSION PER PLAN.

IMPACT LENGTH (LF) 55

IMPACT WIDTH (LF) 15

IMPACT FOOTPRINT (SF) 825

FILL BELOW OHWM (CY) 0

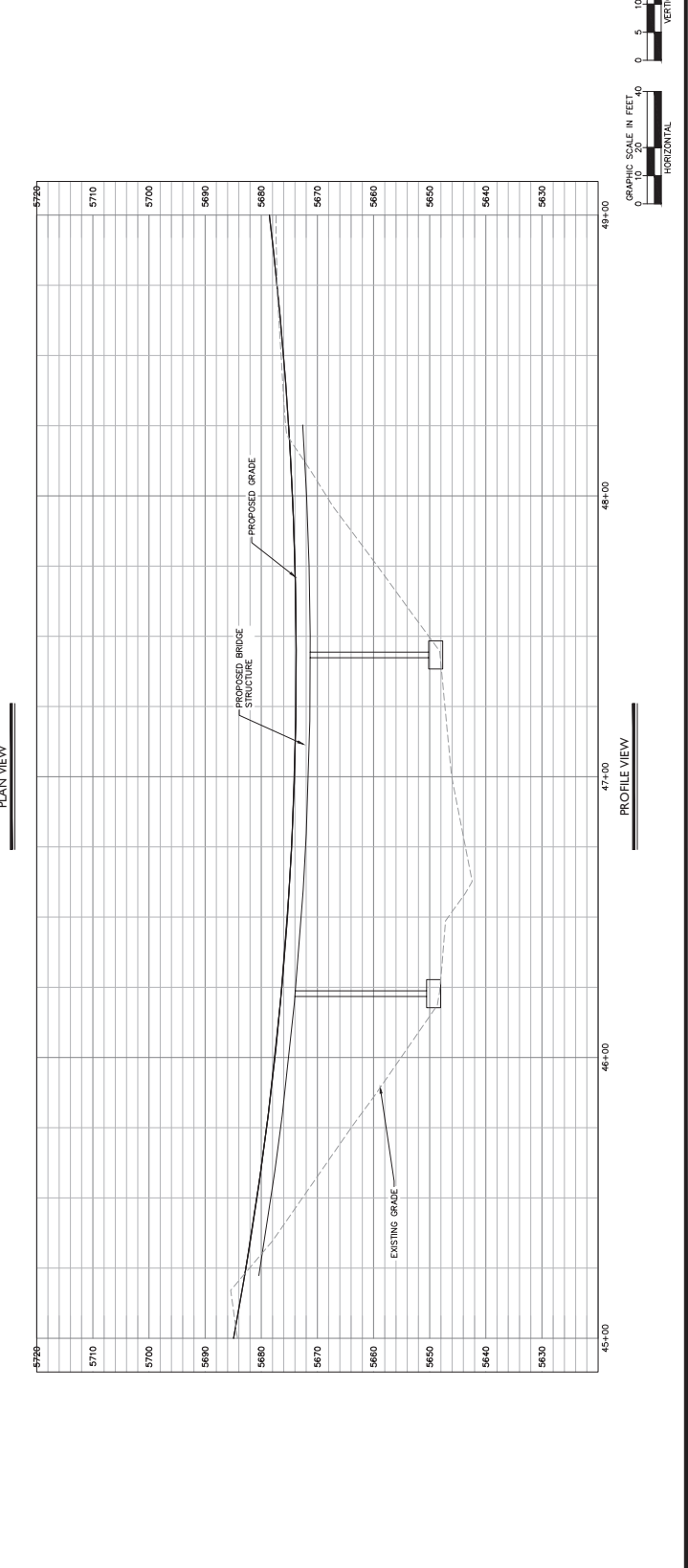
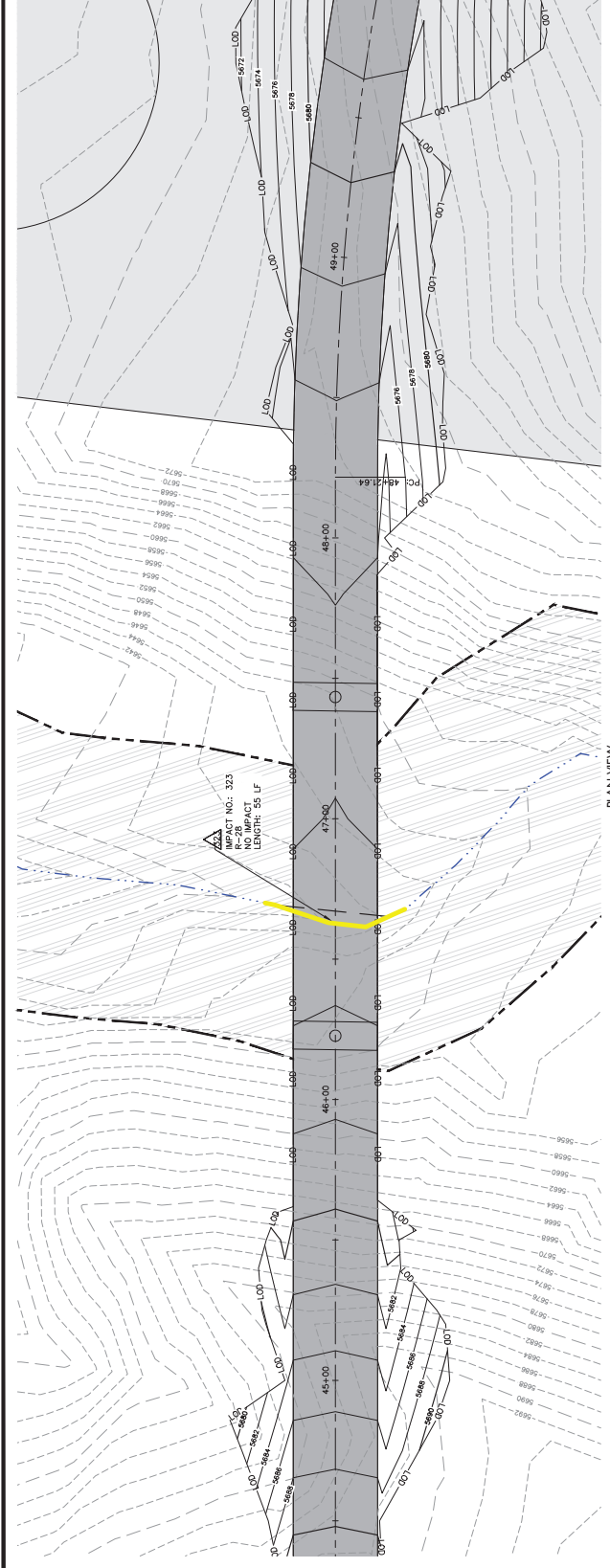
GRAPHIC SCALE IN FEET

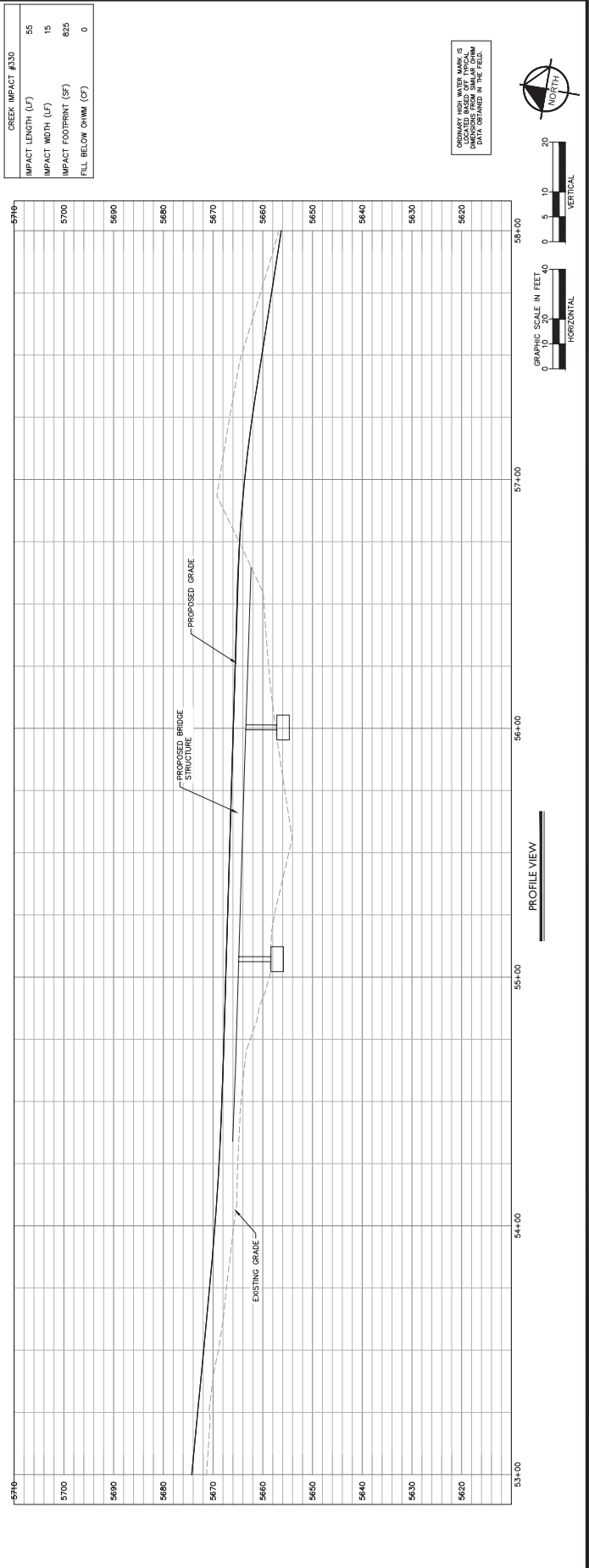
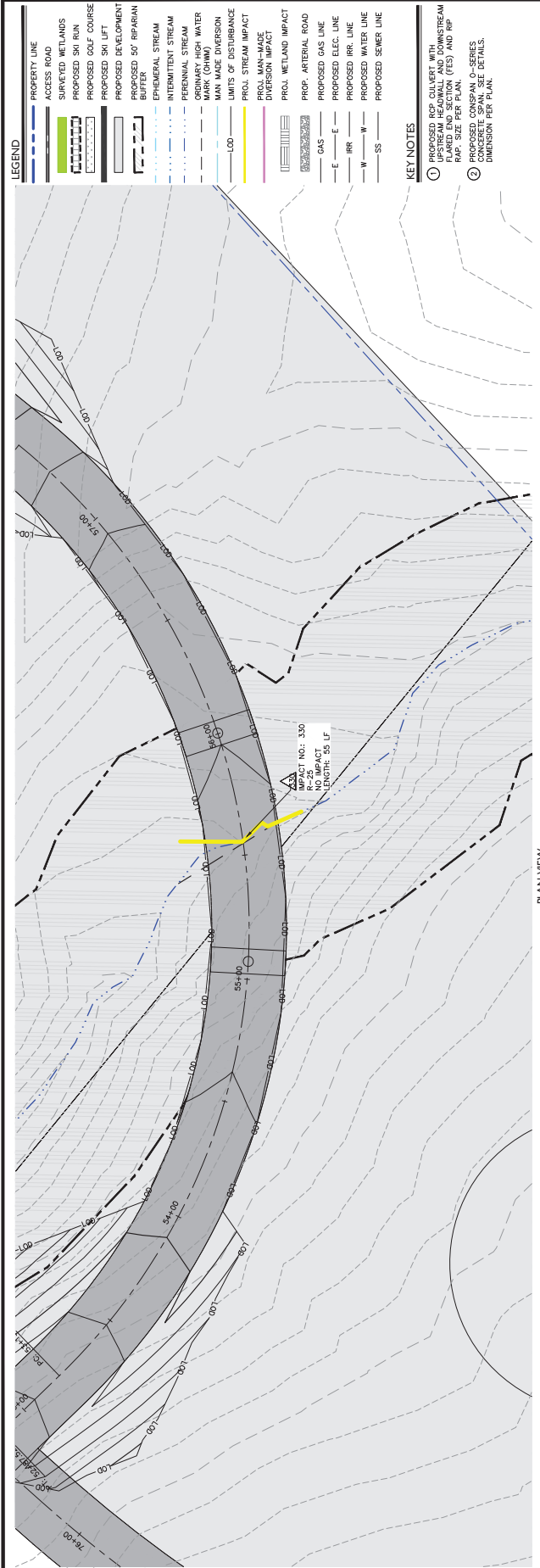
HORIZONTAL 0 10 20 40

VERTICAL 0 5 10 20

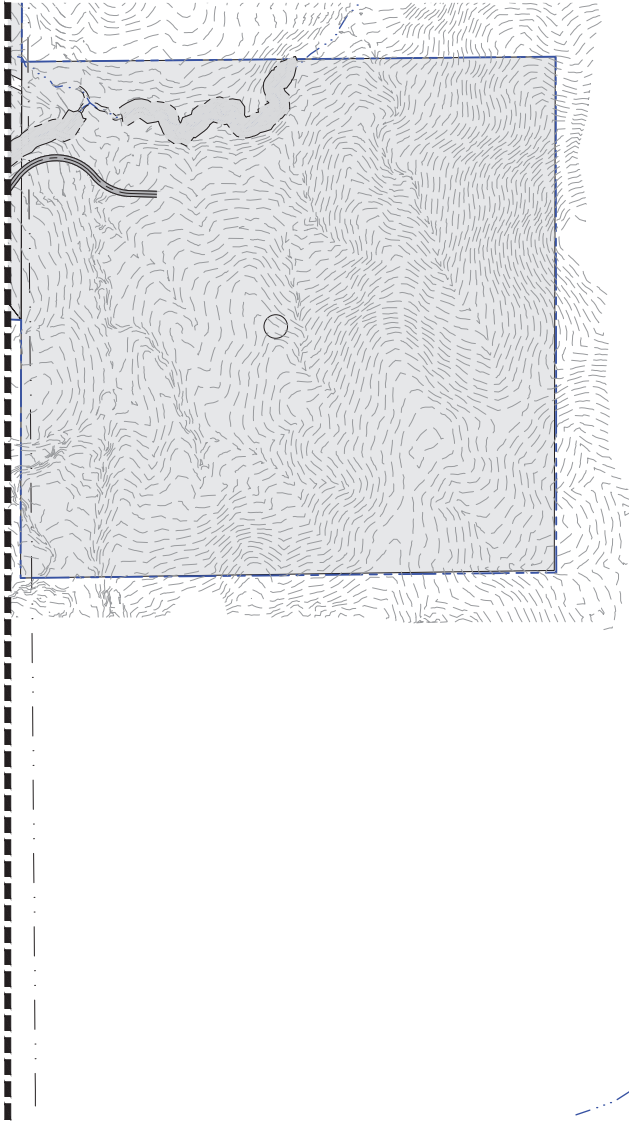
ORDINARY HIGH WATER MARK IS LOCATED 15' FROM PROPOSED ROP CULVERT. DIMENSIONS FROM SLOAN OHWM DATA OBTAINED IN THE FIELD.

North





MATCHLINE - SEE SHEET C2.18



LEGEND

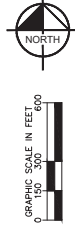
- PROPERTY BOUNDARY
- ACCESS ROAD
- SKI RUNS
- PROPOSED SKI LIFT
- DEVELOPMENT AREAS
- PROPOSED GOLF COURSE
- SURVEYED WETLANDS
- PROPOSED 50' RIPARIAN BUFFER
- EPIHEMERAL CREEK
- INTERMITTENT CREEK
- PERENNIAL CREEK
- ORDINARY HIGH WATER MARK (OHWM)
- MAN-MADE DIVERSION
- NEW/OLD CANAL
- LIMITS OF DISTURBANCE
- PROJECTED CREEK IMPACT
- PROJECTED MAN-MADE DIVERSION IMPACT
- PROJECTED WETLAND IMPACT
- PROPOSED ARTERIAL ROAD
- PROPOSED GAS LINE
- PROPOSED ELECTRICAL LINE
- PROPOSED IRRIGATION LINE
- PROPOSED WATER LINE
- PROPOSED SEWER LINE
- CREEK IMPACT NUMBER
- WETLAND IMPACT NUMBER
- MAN MADE DIVERSION IMPACT NUMBER

KEY NOTES

- A SEE DETAIL 2 SHEET C3.0 FOR PROPOSED DESIGN CROSS SECTIONS. STRUCTURES WILL BE CONSTRUCTED TO PERMANENTLY PROTECT THE RIPARIAN BUFFER FROM IMPACTS TO STREAMS. STRUCTURE WILL RESULT IN PERMANENT IMPACTS TO STREAMS.
- B SEE DETAIL 3 SHEET C3.0 FOR PROPOSED DESIGN CROSS SECTIONS. STRUCTURES WILL BE CONSTRUCTED TO PERMANENTLY PROTECT THE RIPARIAN BUFFER FROM IMPACTS TO STREAMS.
- C RELOCATION OF CREEK IS CLASSIFIED AS TEMPORARY IMPACT. RELOCATION OF CREEK IS CLASSIFIED AS TEMPORARY IMPACT.
- D MATCH EXISTING AND IS CLASSIFIED AS NO IMPACT. MATCH EXISTING AND IS CLASSIFIED AS NO IMPACT.
- E WATER MARK AND IS CLASSIFIED AS NO IMPACT. WATER MARK AND IS CLASSIFIED AS NO IMPACT.
- F SEE DETAIL 3 SHEET C3.0 FOR TYPICAL CREEK RELOCATION AND TEMPORARY IMPACT. SEE DETAIL 3 SHEET C3.0 FOR TYPICAL CREEK RELOCATION AND TEMPORARY IMPACT.
- G TEMPORARY IMPACT. SEE DETAIL 3 SHEET C3.0 FOR TYPICAL CREEK RELOCATION AND TEMPORARY IMPACT.
- H UTILITY LINE TO BE INSTALLED VIA HORIZONTAL DIRECTIONAL DRILLING. IMPACT TYPE CLASSIFIED AS NO IMPACT.

PROPOSED RIPARIAN BUFFER
SECTION TOTAL: 3.16 AC

NO IMPACTS APPEAR
ON THIS SHEET



SHEET
C2.29

NOT FOR
CONSTRUCTION

SCALE

PROJECT No.:	090360005
CHECKED BY:	ZAL
DESIGNED BY:	BS
DRAWN BY:	DMS
AS SHOWN	

SECTION PROPOSED

WASATCH PEAKS RANCH

MORGAN COUNTY, UTAH

Kimley-Horn

215 South State Street, Suite 200, Salt Lake City, UT 84111 | Tel. 801.525.2176

DATE	DESCRIPTION

