

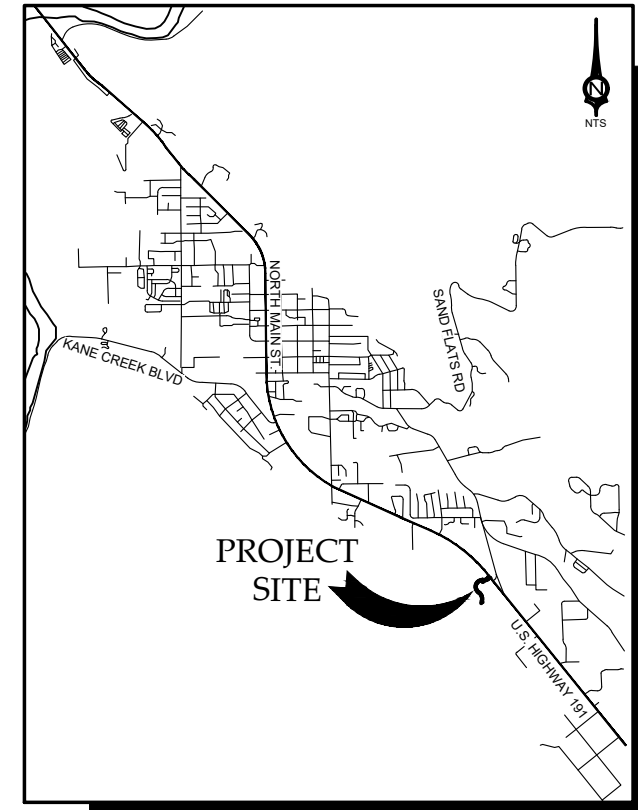
CITY OF MOAB MILL CREEK DRIVE WEST EXTENSION

100% CONSTRUCTION DRAWINGS
MOAB, UTAH
JULY 2018

CIVIL SCIENCE
INFRASTRUCTURE, INC.
1453 S. DIXIE DRIVE, SUITE 150
ST. GEORGE, UT 84770
435.986.0100

PRELIMINARY
NOT FOR
CONSTRUCTION

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VICINITY MAP
(N.T.S.)

COVER SHEET

MILL CREEK DRIVE WEST EXTENSION
MOAB, UTAH

OWNER

CITY OF
MOAB
UTAH

217 EAST CENTER STREET
MOAB, UTAH 84532
435.259.5121

PREPARED BY

CIVIL SCIENCE
INFRASTRUCTURE, INC.

1453 S. DIXIE DRIVE, SUITE 150
ST. GEORGE, UT 84770
435.986.0100

THIS SEAL APPLIES TO ALL SHEETS
CONTAINING THE INSCRIBED SIGNATURE

PROJECT MANAGER
CODY C. HOWICK, P.E.

PROJ.#: Fx-18127
DRAWN BY: CJE
DESIGN BY: JNV
CHECKED BY: CCH
SCALE OF SHEET
HOR SCALE: N/A
VER SCALE: N/A

SHEET CV1

1 OF 49



Know what's below.
Call before you dig.

ABBREVIATIONS

AC	ACRE
ACE	ARMY CORPS OF ENGINEERS
AGGR	AGGREGATE
APPR.	APPROXIMATELY
ARV	AIR RELEASE VALVE
ASSY.	ASSEMBLY
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS
AT	AERIAL TARGET
BFV	BUTTERFLY VAVLE
BH	BORE HOLE
BITUM.	BITUMINOUS
BK	BACK
BLV	BALL VAVLE
B.O.	BY OTHERS
BOA	BEGINNING OF ALIGNMENT
BOP	BEGINNING OF PROJECT
BVC	BEGIN VERTICAL CURVE
C&G	CURB AND GUTTER
CB	CATCH BASIN
C-C	CENTER TO CENTER
CE/L	CONSTRUCTION EASEMENT LINE
CF	CUBIC FEET
CFS	CUBIC FEET PER SECOND
CI	CAST IRON
CIP	CAST IRON PIPE
CL	CENTERLINE
CMP	CORRUGATED METAL PIPE
CO	CLEANOUT
CONC.	CONCRETE
CONSTR.	CONSTRUCTION
CSV	CURB STOP VALVE
CU	COPPER
CY/CU YD	CUBIC YARD
CBL	DOUBLE
DI	DUCTILE IRON
DI/D	DIAMETER
DIP	DUCTILE IRON PIPE
DR	DRIVE
DRWY	DRIVEWAY
DWG	DRAWING
DYL	DOUBLE YELLOW LINE
E.	EAST
EA.	EACH
EG	EXISTING GRADE
EP	EDGE OF PAVEMENT
ELEC.	ELECTRICAL
ELEV.	ELEVATION
ELOH	OVERHEAD ELECTRICAL
EOA	END OF ALIGNMENT
EOP	END OF PROJECT
ESMT	EASEMENT
EVC	END VERTICAL CURVE
EX.	EXISTING
EXT.	EXTENSION
FEMA	FEDERAL EMERGENCY MANAGEMENT AGENCY
FES	FLARED END SECTION
FH	FIRE HYDRANT
FIRM	FLOOD INSURANCE RATE MAP
FL	FLOWLINE
FM	FORCE MAIN
FT.	FOOT/FEET
GALV.	GALVANIZED
GB	GRADE BREAK
GLO	GENERAL LAND OFFICE
GR	GRATE
GV	GATE VALVE

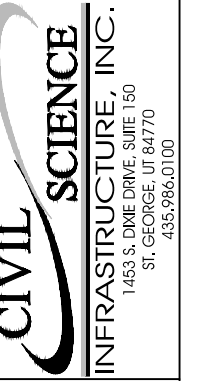
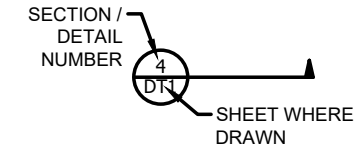
HOR.	HORIZONTAL
HP	HIGH POINT
HYD.	HYDRANT
IN.	INCH
I.D.	INSIDE DIAMETER
INS.	INSULATION
INV.	INVERT
LB.	POUND
LEN.	LENGTH
LF	LINEAR FEET
LP	LOW POINT
LT	LEFT
MAX	MAXIMUM
MFG.	MANUFACTURER
MH	MANHOLE
MIN.	MINIMUM
MON.	MONUMENT
N.	NORTH
NO.	NUMBER
NTS	NOT TO SCALE
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
OH	OVERHEAD
OSHA	OCCUPATION SAFETY AND HEALTH ADMINISTRATION
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVATURE
PI	POINT OF INTERSECTION
PL	PROPERTY LINE
POLY	POLYETHYLENE
POT.	POTABLE
PP	POWER POLE
PRC	POINT OF REVERSE CURVATURE
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
PT	POINT OF TANGENCY
PVC	POLYVINYL CHLORIDE
PVI	POINT OF VERTICAL INTERSECTION
PUE	PUBLIC UTILITY EASEMENT
RAD	RADIUS
R/C	REBAR & CAP
RCP	REINFORCED CONCRETE PIPE
REQ'D	REQUIRED
ROW	RIGHT-OF-WAY
RR	RAILROAD
RT	RIGHT
S.	SOUTH
SAN	SANITARY
SB	STOP BAR
SCH.	SCHEDULE
SD	STORM DRAIN
SDR	STANDARD DIMENSION RATIO
SF/SQ FT	SQUARE FEET
SHT	SHEET
SIM.	SIMILAR
SS	SANITARY SEWER
ST	STREET
STA	STATION
STD	STANDARD
SWL	SOLID WHITE LINE
SY/SQ YD	SQUARE YARD
TBC/TC	TOP BACK OF CURB
TBR	TO BE REMOVED
TYP.	TYPICAL
UTBC	UNTREATED BASE COURSE
VAR.	VARIES
VERT.	VERTICAL
WL	WATER LINE

LEGEND

EXISTING	PROPOSED
	1' CONTOUR ____
	5' CONTOUR ____
	CURB AND GUTTER
	EDGE OF PAVEMENT
	EDGE OF GRAVEL
	STREET CENTERLINE
	PROPERTY LINE
	LOT LINE
	1/4 SECTION LINE
	1/8 SECTION LINE
	SECTION CORNER
	CONTROL MONUMENT
	FENCE
	SEWER LINE (SIZE AS NOTED)
	WATER LINE (SIZE AS NOTED)
	SANITARY SEWER MANHOLE
	PRESSURIZED IRRIGATION
	TEE
	CROSS
	GATE VALVE
	BEND (ANGLE NOTED)
	STUB / CAP
	HYDRANT
	10" PRV STATION
	WATER METER
	STORM DRAIN PIPE (SIZE AS NOTED)
	CONSTRUCTION LIMITS
	FILL LINE
	CUT LINE
	FLOW LINE
	TOE LINE

LEGEND (cont.)

EXISTING	PROPOSED
	STORM DRAIN MANHOLE
	STORM DRAIN CURB INLET
	STREET LIGHT
	BOLLARD LIGHT
	POWER POLE
	SIGN (SINGLE POLE, 2 OR MORE POLES)
	2 SIDED SIGN
	RIP-RAP
	SECTION CALL-OUT SYMBOL
	UNDERGROUND ELECTRIC LINE
	OVERHEAD ELECTRIC LINE
	BURIED FIBER OPTIC LINE
	BURIED CABLE TV
	GAS LINE
	BURIED TELEPHONE
	JOINT UTILITY TRENCH (FOLLOWS POWER)
	QUARTER SECTION LINE



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LEGEND & ABBREVIATIONS
MILL CREEK DRIVE WEST EXTENSION
MOAB, UTAH

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PROJ #: Fx 18127
 DRAWN BY: CJE
 DESIGN BY: JNV
 CHECKED BY: CCH
 SCALE OF SHEET:
 HOR SCALE: N/A
 VER SCALE: N/A



Know what's below.
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SHEET **GN1**

PROJECT NOTES:

GENERAL:

1. ALL CONSTRUCTION SHALL CONFORM TO APWA MANUAL OF STANDARD PLANS AND APWA MANUAL OF STANDARD SPECIFICATIONS, LATEST EDITION UNLESS SPECIFIED OTHERWISE.
2. CONSTRUCTION IS INTENDED TO BE WITHIN ROADWAY RIGHT-OF-WAY OR EASEMENTS. ANY WORK BEYOND RIGHT-OF-WAY LIMITS IS TO BE COORDINATED WITH CITY OF MOAB ENGINEER REPRESENTATIVE.
3. THE CONTRACTOR WILL BE REQUIRED TO OBTAIN A UTAH DEPARTMENT OF ENVIRONMENTAL QUALITY STORM WATER PERMIT PRIOR TO BEGINNING CONSTRUCTION. THE CONTRACTOR SHALL GENERATE AND UTILIZE A STORM WATER POLLUTION PREVENTION PLAN.
4. THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE ONLY. ALL SHOWN EXISTING UTILITIES ARE SHOWN TO BEST OF ENGINEER'S KNOWLEDGE FROM GATHERED DATA. THE CONTRACTOR IS REQUIRED TO VERIFY THE EXACT LOCATION OF EXISTING UTILITIES. COMMENCING WORK, CONTACT UNDERGROUND LOCATES BY USING RESOURCES PROVIDED BY UTAH BLUE STAKES NUMBER 1-800-662-8111 OR 811.
5. AVOID IMPACTS TO EXISTING UTILITIES WHERE POSSIBLE. WHERE IMPACTS TO UTILITIES ARE EXPECTED OR ENCOUNTERED, COORDINATE RELATED CONSTRUCTION ACTIVITIES AND REQUIRED UTILITY MODIFICATION WITH UTILITY OWNERS AND CITY OF MOAB CONSTRUCTION REPRESENTATIVE. THE CONTRACTOR SHALL INFORM AND COORDINATE PLANNED PROJECT CONSTRUCTION WITH ALL UTILITY OWNERS WITHIN PROJECT AREA PRIOR TO CONSTRUCTION.
6. CONTRACTOR SHALL POTHOLE AND SURVEY EXISTING CONNECTION IN ADVANCE AND ADVISE ENGINEER OF ANY DISCREPANCIES OR CONFLICTS, PRIOR TO BEGINNING INSTALLATION OF THE LINES TO WHICH THEY CONNECT.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL REQUIRED INSPECTION AND TESTING. WORK CONCEALED WITHOUT THE REQUIRED INSPECTION OR TESTING SHALL BE SUBJECT TO EXPOSURE AT THE CONTRACTOR'S SOLE EXPENSE.
8. WORK PERFORMED WHICH IS NOT IN CONFORMANCE WITH THE DRAWINGS AND/OR SPECIFICATIONS OR WITHOUT CITY OF MOAB ENGINEER REPRESENTATIVE'S APPROVAL SHALL BE SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S SOLE EXPENSE.
9. THE FINAL GRADING AND CLEANUP OF DISTURBED AREAS IS SUBJECT TO THE ENGINEER'S APPROVAL PRIOR TO THE GRANTING OF FINAL ACCEPTANCE.
10. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT ALL OSHA REGULATIONS AND STANDARDS ARE COMPLIED WITH ON THE PROJECT SITE DURING THE CONSTRUCTION PERIOD.

WATER:

1. CONTRACTOR MUST VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF EXISTING WATERLINES WITHIN PROJECT LIMITS PRIOR TO INSTALLATION OF NEW WATERLINE. REPORT ANY DISCREPANCIES BETWEEN EXPECTED LOCATION AND ACTUAL LOCATION TO THE CITY OF MOAB ENGINEER OR THEIR REPRESENTATIVE.
2. ALL WATER INSTALLATION SHALL CONFORM TO GRAND WATER & SEWER SERVICE AGENCY CONSTRUCTION STANDARDS, LATEST EDITION. IF NO DETAIL IS FOUND FOR BID ITEM, REFER TO APWA MANUAL OF STANDARD PLANS AND PROJECT DETAILS FOUND IN CONSTRUCTION DRAWINGS.
3. ALL EXISTING PUBLIC VALVES ARE TO BE OPERATED BY GRAND WATER SEWER SERVICES AGENCY REPRESENTATIVES. GIVE PRIOR NOTICE TO GRAND WATER SEWER SERVICES AGENCY CONSTRUCTION REPRESENTATIVE BEFORE WATER LOOPS ARE CONSTRUCTED TO AVOID ANY AMBIGUITIES.

SEWER:

1. CONTRACTOR MUST VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF EXISTING SEWER LINES WITHIN PROJECT LIMITS PRIOR TO INSTALLATION OF NEW SEWERLINE. REPORT ANY DISCREPANCIES BETWEEN EXPECTED LOCATION AND ACTUAL LOCATION TO THE CITY OF MOAB ENGINEER OR THEIR REPRESENTATIVE.
2. ALL SEWER INSTALLATION SHALL CONFORM TO GRAND WATER SEWER SERVICES AGENCY CONSTRUCTION STANDARDS, LATEST EDITION. IF NO DETAIL IS FOUND FOR BID ITEM, REFER TO APWA MANUAL OF STANDARD PLANS AND PROJECT DETAILS FOUND IN CONSTRUCTION DRAWINGS.

POWER:

1. ALL POWER INSTALLATION SHALL CONFORM TO ROCKY MTN. POWER UNDERGROUND CONDUIT SYSTEMS STANDARDS, LATEST EDITION.
2. CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH ROCKY MTN. POWER REPRESENTATIVE GARY LAWLEY ON UTILITY INSTALLATION NOT PERFORMED BY CONTRACTOR.
3. ITEMS DISPLAYED ON PLAN SHEETS TO BE INSTALLED BY OTHERS WILL BE INSTALLED BY ROCKY MTN. POWER SUCH AS: TRANSFORMER, POWER LINE, POWER POLE, OVERHEAD POWER, PRIMARY CONDUCTORS, ETC.
4. THE COMPLETED INSTALLATION SHALL CONFORM TO ALL APPLICABLE FEDERAL, STATE AND LOCAL CODE ORDINANCES AND REGULATIONS. CONTRACTOR SHALL OBTAIN NECESSARY PERMITS AND INSPECTIONS REQUIRED BY THE GOVERNING AUTHORITIES. ALL WORK SHALL BE DONE IN A NEAT, PROFESSIONAL, FINISHED AND SAFE MANNER, ACCORDING TO THE LATEST PUBLISHED N.E.C.A. STANDARDS OF INSTALLATION, UNDER COMPETENT SUPERVISION. INSTALL GROUNDING AND ALL ELECTRICAL WORK AS REQUIRED BY THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE AS WELL AS ANY OTHER APPLICABLE CODES.
5. ALL CONDUCTORS SHALL BE THHN/THWN COPPER STRANDED RATED AT 600 VOLTS UNLESS OTHERWISE NOTED. ALUMINUM CONDUCTORS WILL NOT BE ALLOWED.

STORM DRAIN:

1. REVIEW AND CONFIRM DESIGN CLEARANCES BETWEEN PROPOSED WATER, SEWER, AND STORM DRAIN ELEMENTS ARE UNDERSTOOD AND THAT ANY CONFLICTS ARE ADDRESSED PRIOR TO CONSTRUCTION. REPORT ANY DISCREPANCIES BETWEEN EXPECTED LOCATION AND ACTUAL LOCATION TO CITY OF MOAB ENGINEER OR THEIR REPRESENTATIVE IMMEDIATELY.

STREETS:

1. CONTRACTOR MUST OBTAIN AN ENCROACHMENT PERMIT FROM UTAH DEPARTMENT OF TRANSPORTATION PRIOR TO CONSTRUCTION.
2. CONTRACTOR IS TO GENERATE AND IMPLEMENT TRAFFIC CONTROL PLANS BASED ON UDOT TRAFFIC CONTROL STANDARD DRAWINGS. ALL TRAFFIC CONTROL PLANS ARE TO BE SUBMITTED AND APPROVED BY CITY OF MOAB ENGINEER REPRESENTATIVE OR CITY OF MOAB CONSTRUCTION REPRESENTATIVE PRIOR TO TRAFFIC CONTROL IMPLEMENTATION. PROVIDE A MINIMUM OF ONE WEEK FOR TRAFFIC CONTROL REVIEW AND APPROVAL, AND AT LEAST 10 DAYS FOR REVIEW AND APPROVAL OF ANY REVISIONS.
3. PRIOR TO FINAL ACCEPTANCE OR OPENING NEW PAVEMENT FOR TRAVEL, PAVEMENT SHALL BE SWEEPED CLEAN.
4. THE CONTRACTOR SHALL ENSURE THAT DUST IS CONTROLLED DURING THE SWEEPING OPERATION THROUGH THE USE OF PROPER EQUIPMENT.
5. ANY EXISTING SURVEY MONUMENTATION THAT IS DISTURBED BY CONSTRUCTION ACTIVITIES SHALL BE REPLACED BY A SURVEYOR LICENSED IN THE STATE OF UTAH.
6. ROADWAY SHOULDER WILL BE THE FLAT CURB (NO ASPHALT SHOULDER).
7. DUE TO FLAT CURB, PAVEMENT SECTION WILL HAVE VERTICAL EDGES.
8. SCOPE TO INSTALL 3 1/2" OF ASPHALT PAVEMENT DEPTH AS PART OF THE INITIAL CONSTRUCTION AND MILL/OVERLAY TO FULL DEPTH DURING FULL BUILD CONSTRUCTION.



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CONSTRUCTION**

GENERAL NOTES

 MILL CREEK DRIVE WEST EXTENSION
 MOAB, UTAH

PROJ #:	F-18127
DRAWN BY:	CJE
DESIGN BY:	JW
CHECKED BY:	CCH
SCALE OF SHEET:	
HOR SCALE:	N/A
VER SCALE:	N/A

SHEET **GN2**

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DESIGN CRITERIA:

WATER:

PIPE DEFLECTION MIN. USED	REFER TO PIPE MANUFACTURER REQUIREMENTS FOR MINIMUM PIPE DEFLECTION
PIPE COVER MIN.	4 FT
FIRE HYDRANT SPACING	MAX. OF 500 FT. BASED ON MOAB FIRE DEPARTMENT AND CITY OF MOAB STANDARDS

SEWER:

VELOCITY LIMITS	2 FT/S MIN. (MIN. VELOCITY IN SYSTEM = 2.46 FT/S)
SLOPE LIMITS	2.85% MIN. USED 6.33% MAX. USED
MANHOLE SPACING	400 FT. SPACING (AVERAGE SPACE USED = 250 FT.)

ROADWAY SECTION:

EMBANKMENT SLOPES	4:1 FILLS, 1.5 CUTS
LANE AND CROSS SLOPES	12 FT. WIDE VEHICLE LANES, 6 FT. WIDE BIKE LANE, 2% CROSS SLOPE
LANDSCAPE DITCH	0.75 FT. (9") DEEP AT 6:1 SLOPE, 8FT. WIDE ALONG EDGES OF ROADWAY, 10 FT. WIDE FOR PLANNED MEDIAN, LANDSCAPE ROCK LINED
ROADWAY PAVEMENT SECTION DESIGN	10" UNTREATED BASE COURSE (PLAN QTY) 10" GRANULAR BORROW (PLAN QTY) 3.5" PLANT-MIX BITUMINOUS PAVING (6" AT FULL BUILDOUT)
SHARED USE CONCRETE TRAIL	10 FT. WIDE (4" CONCRETE / 4" UNTREATED BASE COURSE (PLAN QUANTITY)
FLAT CURB	2 FT. WIDE, 6" THICK FLAT CURB (NO GUTTER)

ROADWAY GEOMETRY:

DESIGN SPEED	30 MPH
AADT	ANTICIPATED 14,000 VEHICLES AT US-191 INTERSECTION UPON FULL BUILD
LIMITS	FROM US-191 TO A DESIRED DISTANCE OF 100 FT WITHIN USU PARCEL. US-191 LIMIT HELD, UPPER LIMIT ADJUSTED TO APPROXIMATELY 225FT WITHIN USU PARCEL TO ACCOMMODATE GRADE TIE IN FOR HORIZONTAL CURVES
HORIZONTAL CURVES	333FT. MIN. (335FT. USED) FOR CURVES NOT REQUIRING SUPERELEVATION, PER AASHTO TABLE 3-13B (LOW SPEED URBAN)
VERTICAL CURVES	MIN. LENGTH: 100FT. K VALUES : 19* FOR CREST, 37* FOR SAG (*ROUNDED)
GRADE	0.33% MIN, 8% MAX (<7% DESIRED) 3.5% LANDINGS DESIRED AT ANTICIPATED INTERSECTIONS
SUPERELEVATION	NOT REQUIRED (SEE HORIZONTAL CURVE)
CLEAR ZONE	10 FT.



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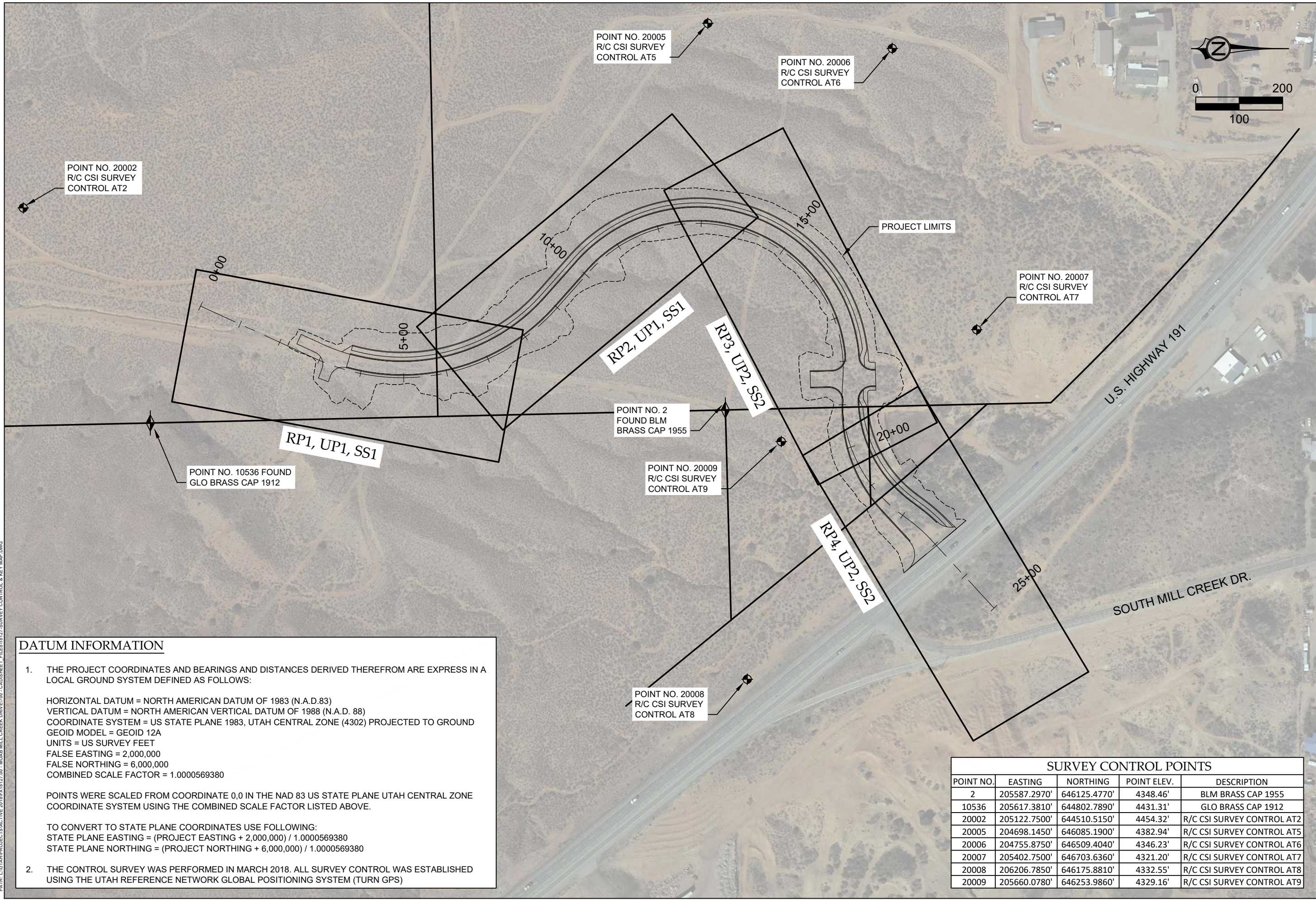
GENERAL NOTES
 MILL CREEK DRIVE WEST EXTENSION
 MOAB, UTAH

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 VER SCALE: N/A

SHEET **GN3**

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DATUM INFORMATION

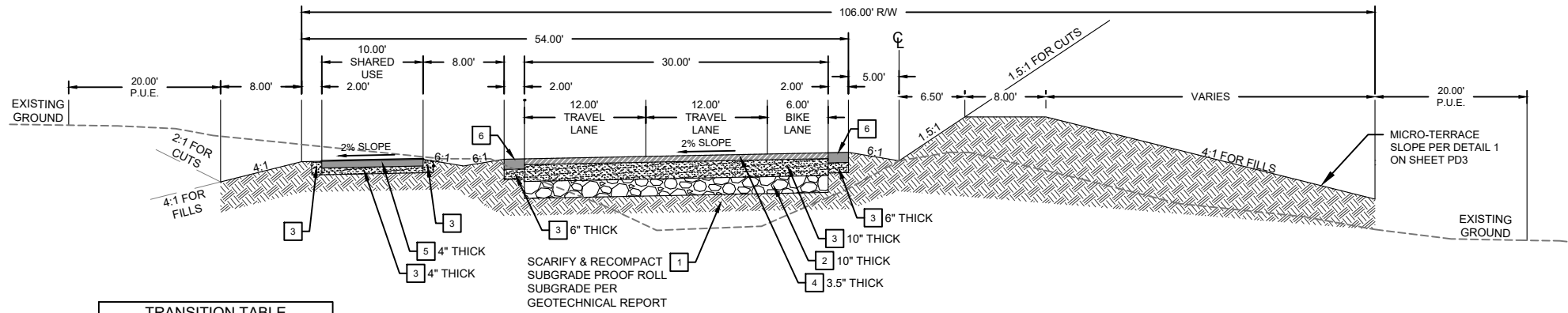
- THE PROJECT COORDINATES AND BEARINGS AND DISTANCES DERIVED THEREFROM ARE EXPRESS IN A LOCAL GROUND SYSTEM DEFINED AS FOLLOWS:

 HORIZONTAL DATUM = NORTH AMERICAN DATUM OF 1983 (N.A.D.83)
 VERTICAL DATUM = NORTH AMERICAN VERTICAL DATUM OF 1988 (N.A.D. 88)
 COORDINATE SYSTEM = US STATE PLANE 1983, UTAH CENTRAL ZONE (4302) PROJECTED TO GROUND
 GEOID MODEL = GEOID 12A
 UNITS = US SURVEY FEET
 FALSE EASTING = 2,000,000
 FALSE NORTHING = 6,000,000
 COMBINED SCALE FACTOR = 1.0000569380

 POINTS WERE SCALED FROM COORDINATE 0,0 IN THE NAD 83 US STATE PLANE UTAH CENTRAL ZONE COORDINATE SYSTEM USING THE COMBINED SCALE FACTOR LISTED ABOVE.

 TO CONVERT TO STATE PLANE COORDINATES USE FOLLOWING:
 STATE PLANE EASTING = (PROJECT EASTING + 2,000,000) / 1.0000569380
 STATE PLANE NORTHING = (PROJECT NORTHING + 6,000,000) / 1.0000569380
- THE CONTROL SURVEY WAS PERFORMED IN MARCH 2018. ALL SURVEY CONTROL WAS ESTABLISHED USING THE UTAH REFERENCE NETWORK GLOBAL POSITIONING SYSTEM (TURN GPS)

SURVEY CONTROL POINTS				
POINT NO.	EASTING	NORTHING	POINT ELEV.	DESCRIPTION
2	205587.2970'	646125.4770'	4348.46'	BLM BRASS CAP 1955
10536	205617.3810'	644802.7890'	4431.31'	GLO BRASS CAP 1912
20002	205122.7500'	644510.5150'	4454.32'	R/C CSI SURVEY CONTROL AT2
20005	204698.1450'	646085.1900'	4382.94'	R/C CSI SURVEY CONTROL AT5
20006	204755.8750'	646509.4040'	4346.23'	R/C CSI SURVEY CONTROL AT6
20007	205402.7500'	646703.6360'	4321.20'	R/C CSI SURVEY CONTROL AT7
20008	206206.7850'	646175.8810'	4332.55'	R/C CSI SURVEY CONTROL AT8
20009	205660.0780'	646253.9860'	4329.16'	R/C CSI SURVEY CONTROL AT9

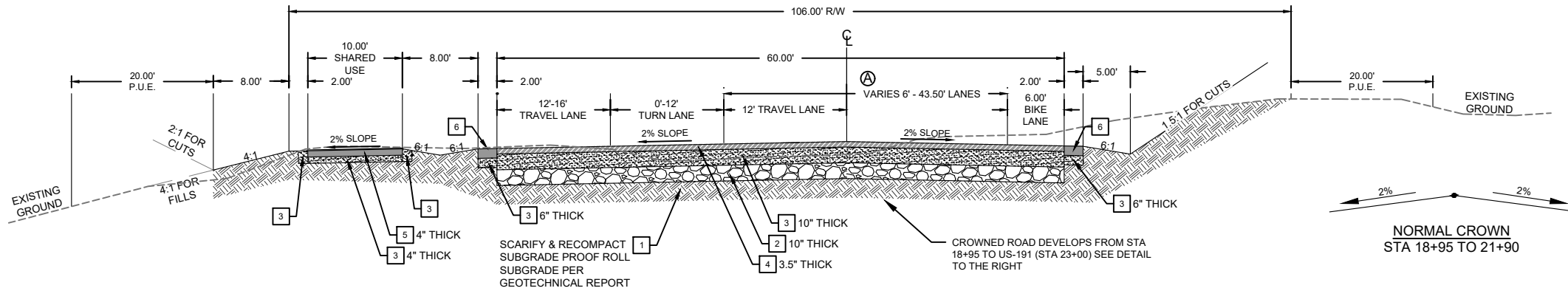


TRANSITION TABLE		
BEGIN	END	VARIABLES (A)
17+78.00	25+05	0-43.50

*TRANSITION OCCURS THROUGH STA. 18+40 INTERSECTION IN THE APPROXIMATED TRANSITION STATIONS.

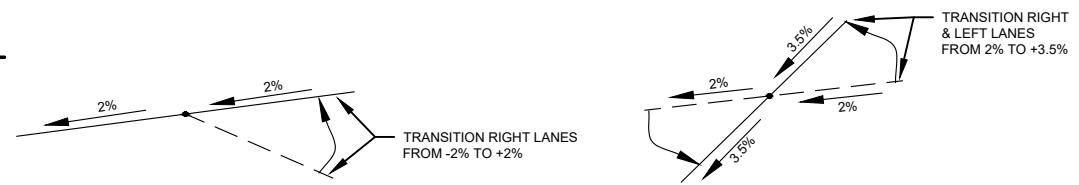
TYPICAL SECTION 1

3+65.00 TO 17+78.00
DESIGN SPEED 30 MPH
CLEAR ZONE 10 FEET



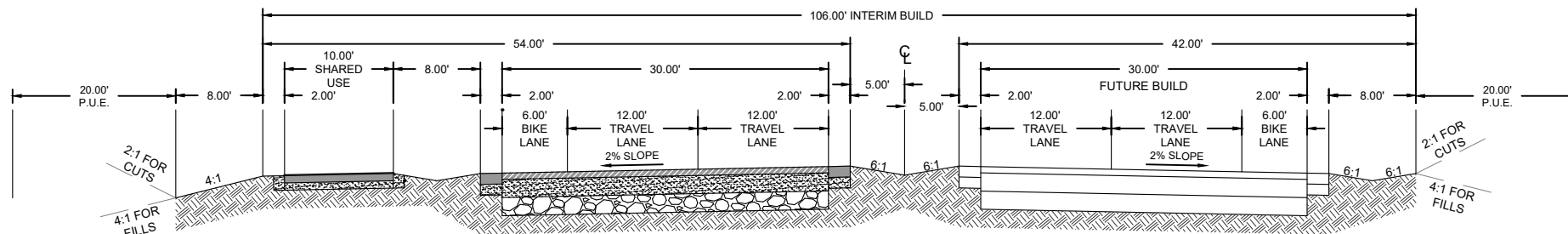
TYPICAL SECTION 2

18+95.00 TO 23+05.00
DESIGN SPEED 30 MPH
CLEAR ZONE 10 FEET



SUPER TRANSITION NO. 1
STA. 21+90 TO STA. 22+50

SUPER TRANSITION NO. 2
STA 22+50 TO 23+90 (US-191)



TYPICAL SECTION 3

FULL BUILD
(FOR REFERENCE ONLY)

KEYNOTES:

- 1 ROADWAY EXCAVATION (PLAN QUANTITY)
- 2 GRANULAR BORROW (PLAN QUANTITY)
- 3 UNTREATED BASE COURSE (PLAN QUANTITY)
- 4 PLANT-MIX BITUMINOUS PAVING
- 5 SHARED USE 4" CONCRETE TRAIL - SEE SHEET PD1 FOR DETAILS
- 6 2" CONCRETE FLAT CURB - SEE SHEET PD1 FOR DETAILS

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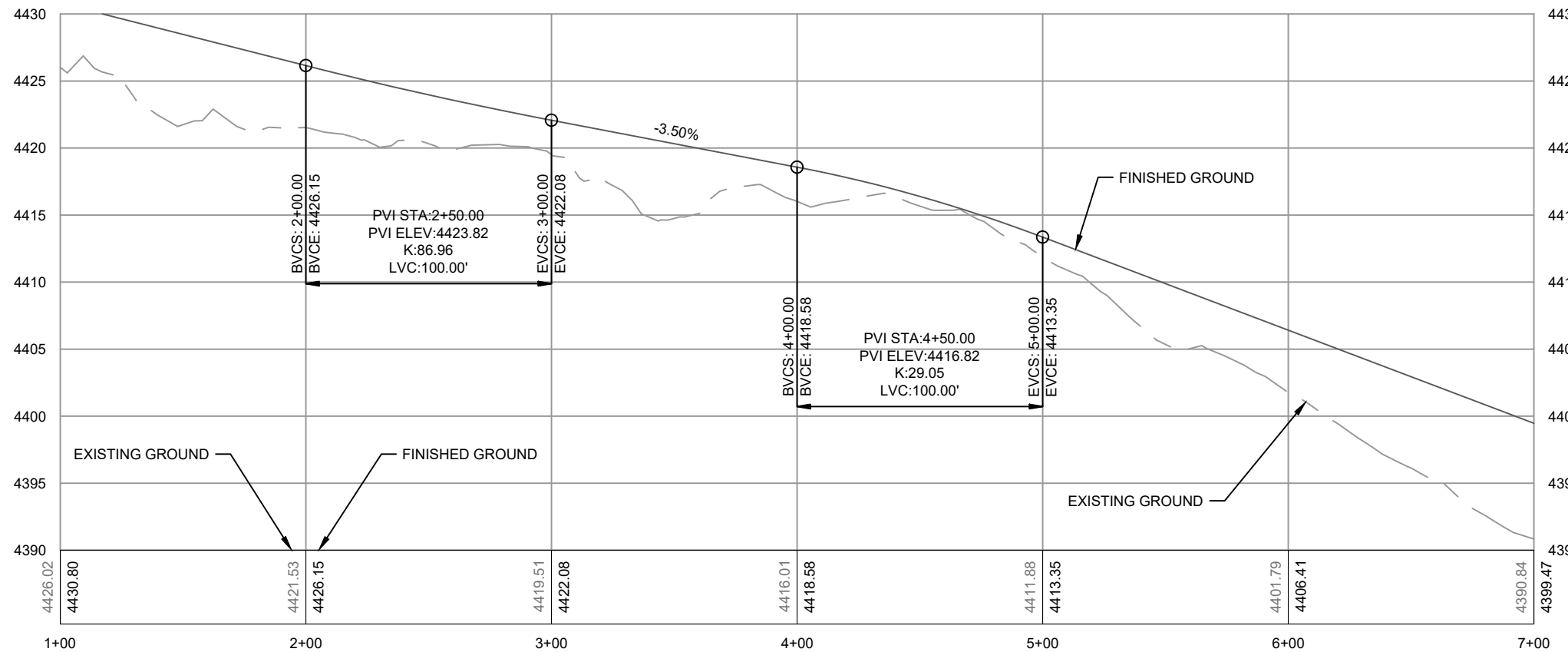
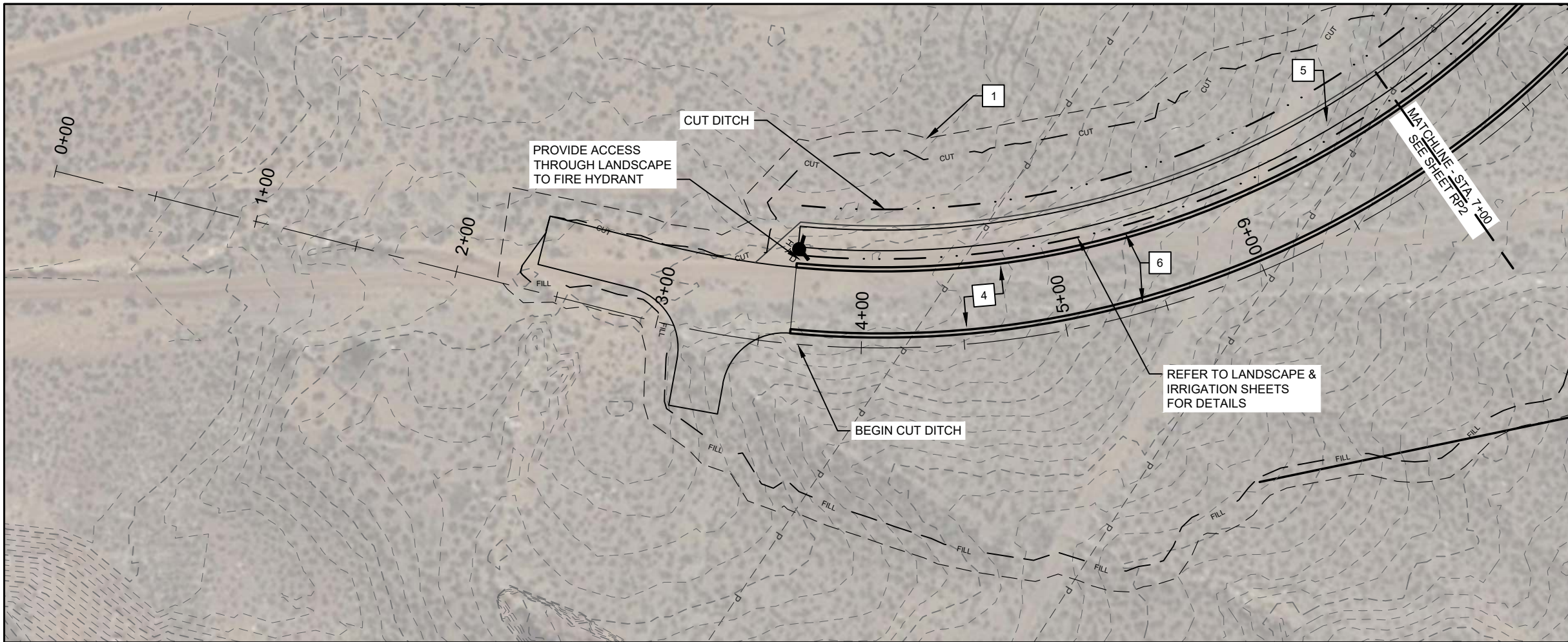
TYPICAL SECTIONS
MILL CREEK DRIVE WEST EXTENSION
MOAB, UTAH

PROJ #: F-18127
DRAWN BY: CJE
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HOR SCALE: N/A
VER SCALE: N/A

SHEET TS1

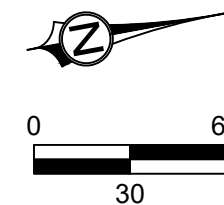
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KEYNOTES:

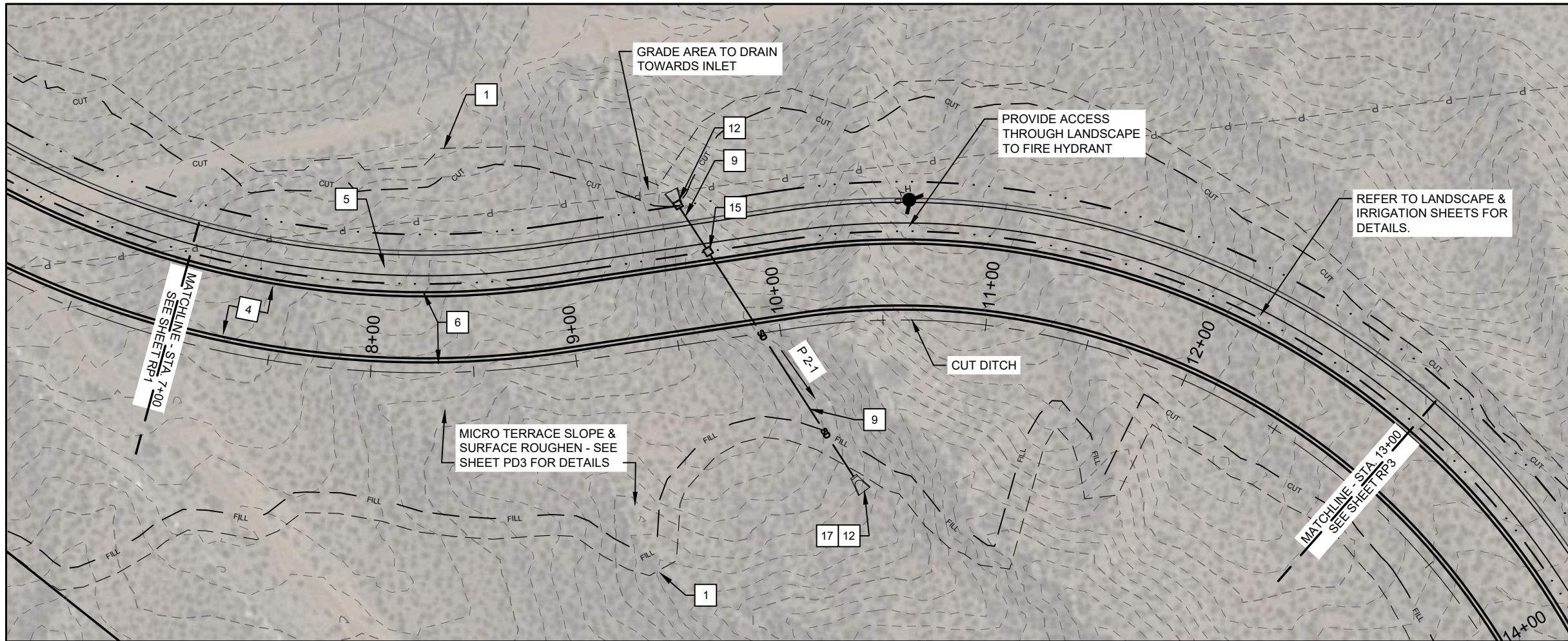
- 1 SITE CLEARING
- 2 PAVEMENT REMOVAL
- 3 ROADWAY EXCAVATION (PLAN QUANTITY) - SEE SHEET TS1 FOR DETAILS
- 4 PLANT-MIX BITUMINOUS PAVING - SEE SHEET TS1 FOR DETAILS
- 5 SHARED USE 4" CONCRETE TRAIL - SEE SHEET TS1 & SHEET PD1 FOR DETAILS
- 6 2' CONCRETE FLAT CURB - SEE SHEET PD3 FOR DETAILS
- 7 DETECTABLE WARNING SURFACE - SEE APWA STD DETAIL 238
- 8 24" HDPE STORM DRAIN PIPE - REFER TO DP1 FOR PROFILE.
- 9 30" HDPE STORM DRAIN PIPE - REFER TO DP1 FOR PROFILE.
- 10 42" HDPE STORM DRAIN PIPE - REFER TO DP1 FOR PROFILE.
- 11 24" PIPE OUTFALL - SEE APWA STD DETAIL 323.1
- 12 30" PIPE OUTFALL - SEE APWA STD DETAIL 323.1
- 13 OUTLET ORIFICE STRUCTURE - SEE SHEET PD4 FOR DETAILS
- 14 3'X3' PRECAST BOX W/ GRID GRATE - SEE APWA STD DETAIL 332
- 15 4'X4' PRECAST BOX W/ GRID GRATE - SEE APWA STD DETAIL 332
- 16 6'X10' PRECAST BOX - SEE APWA STD DETAIL 332
- 17 LOOSE PLACED RIPRAP - SEE SHEET PD3 FOR DETAILS
- 18 42" PIPE OUTFALL - SEE APWA STD 323.1 FOR DETAILS



PRELIMINARY
 NOT FOR
 CONSTRUCTION

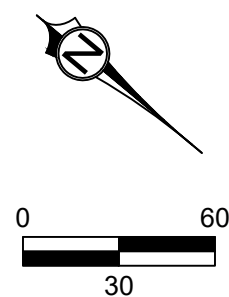
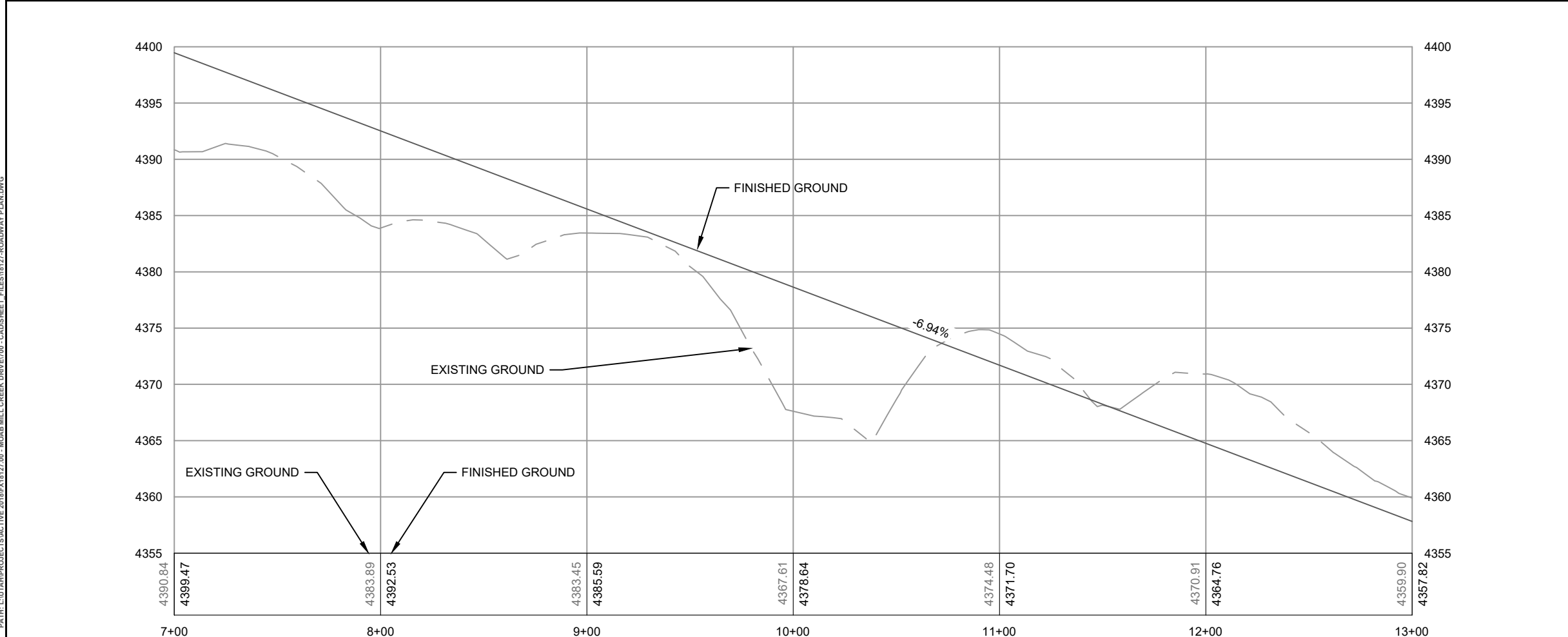
ROADWAY PLAN & PROFILE
 MILL CREEK DRIVE WEST EXTENSION
 MOAB, UTAH

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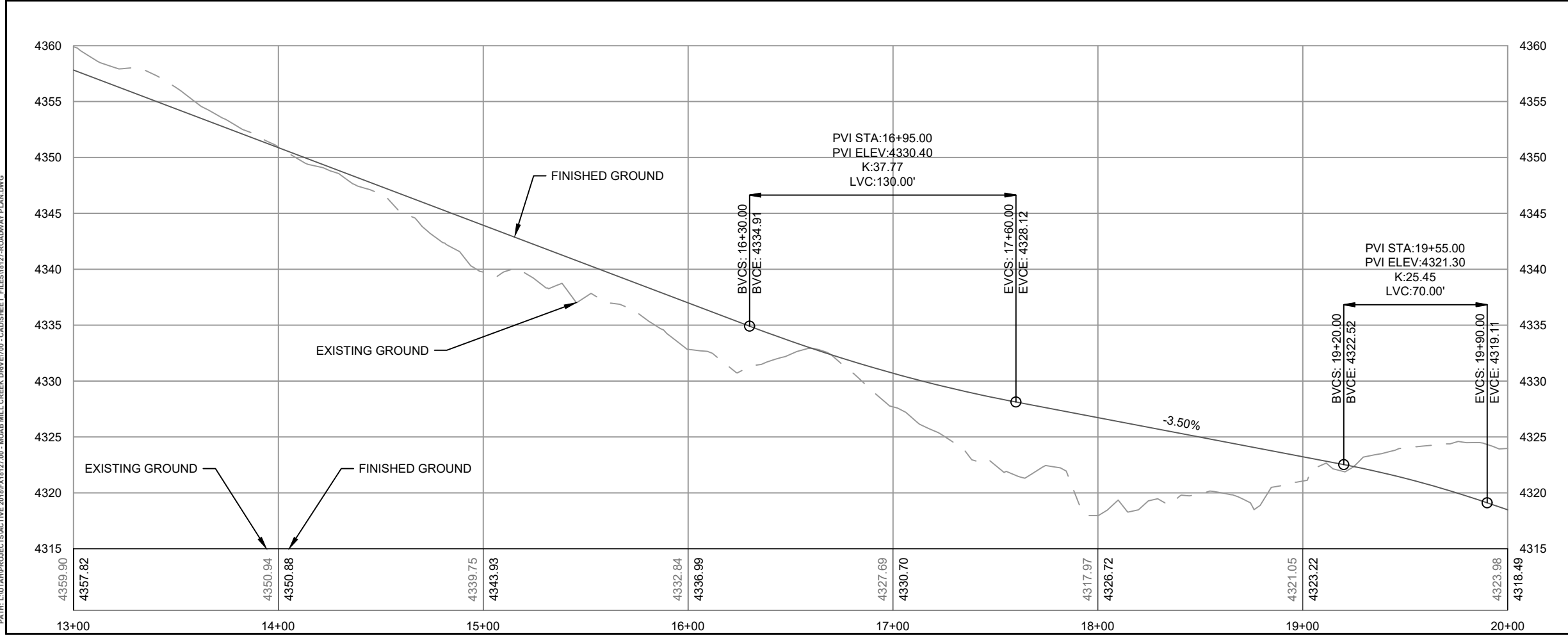
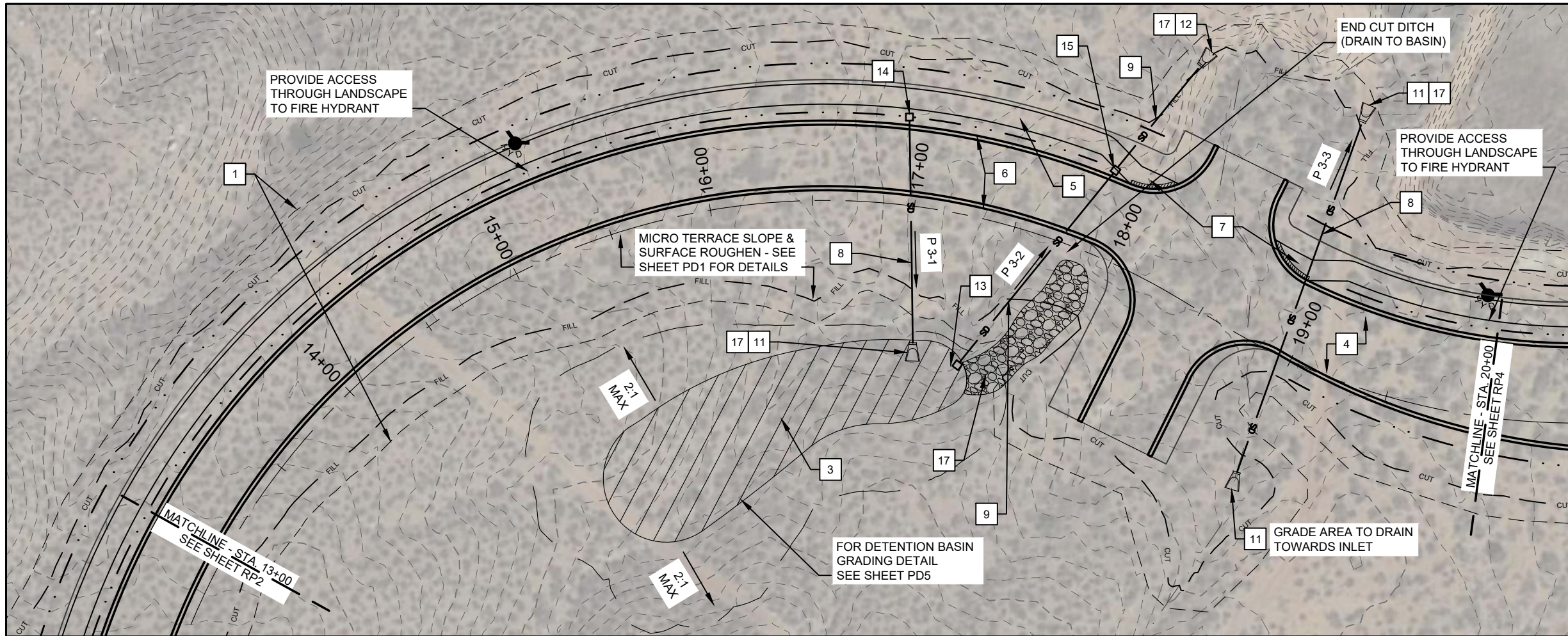


KEYNOTES:

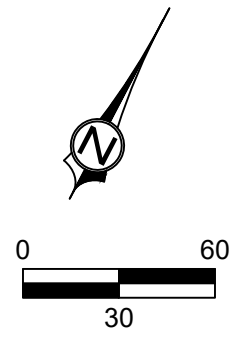
- 1 SITE CLEARING
- 2 PAVEMENT REMOVAL
- 3 ROADWAY EXCAVATION (PLAN QUANTITY) - SEE SHEET TS1 FOR DETAILS
- 4 PLANT-MIX BITUMINOUS PAVING - SEE SHEET TS1 FOR DETAILS
- 5 SHARED USE 4" CONCRETE TRAIL - SEE SHEET TS1 & SHEET PD1 FOR DETAILS
- 6 2' CONCRETE FLAT CURB - SEE SHEET PD3 FOR DETAILS
- 7 DETECTABLE WARNING SURFACE - SEE APWA STD DETAIL 238
- 8 24" HDPE STORM DRAIN PIPE - REFER TO DP1 FOR PROFILE.
- 9 30" HDPE STORM DRAIN PIPE - REFER TO DP1 FOR PROFILE.
- 10 42" HDPE STORM DRAIN PIPE - REFER TO DP1 FOR PROFILE.
- 11 24" PIPE OUTFALL - SEE APWA STD DETAIL 323.1
- 12 30" PIPE OUTFALL - SEE APWA STD DETAIL 323.1
- 13 OUTLET ORIFICE STRUCTURE - SEE SHEET PD4 FOR DETAILS
- 14 3'X3' PRECAST BOX W/ GRID GRATE - SEE APWA STD DETAIL 332
- 15 4'X4' PRECAST BOX W/ GRID GRATE - SEE APWA STD DETAIL 332
- 16 6'X10' PRECAST BOX - SEE APWA STD DETAIL 332
- 17 LOOSE PLACED RIPRAP - SEE SHEET PD3 FOR DETAILS
- 18 42" PIPE OUTFALL - SEE APWA STD 323.1 FOR DETAILS



PLOT: 09/16/25 09:46:10 AM
 PATH: C:\TEMP\PROJECTS\ACTIVE 2018\PROJECTS\MOAB MILL CREEK DRIVE\700 - MOAB MILL CREEK DRIVE\700 - CAD\DWG - ROADWAY PLAN.DWG



- KEYNOTES:**
- 1 SITE CLEARING
 - 2 PAVEMENT REMOVAL
 - 3 ROADWAY EXCAVATION (PLAN QUANTITY) - SEE SHEET TS1 FOR DETAILS
 - 4 PLANT-MIX BITUMINOUS PAVING - SEE SHEET TS1 FOR DETAILS
 - 5 SHARED USE 4" CONCRETE TRAIL - SEE SHEET TS1 & SHEET PD1 FOR DETAILS
 - 6 2' CONCRETE FLAT CURB - SEE SHEET PD3 FOR DETAILS
 - 7 DETECTABLE WARNING SURFACE - SEE APWA STD DETAIL 238
 - 8 24" HDPE STORM DRAIN PIPE - REFER TO DP1 FOR PROFILE.
 - 9 30" HDPE STORM DRAIN PIPE - REFER TO DP1 FOR PROFILE.
 - 10 42" HDPE STORM DRAIN PIPE - REFER TO DP1 FOR PROFILE.
 - 11 24" PIPE OUTFALL - SEE APWA STD DETAIL 323.1
 - 12 30" PIPE OUTFALL - SEE APWA STD DETAIL 323.1
 - 13 OUTLET ORIFICE STRUCTURE - SEE SHEET PD4 FOR DETAILS
 - 14 3'X3' PRECAST BOX W/ GRID GRATE - SEE APWA STD DETAIL 332
 - 15 4'X4' PRECAST BOX W/ GRID GRATE - SEE APWA STD DETAIL 332
 - 16 6'X10' PRECAST BOX - SEE APWA STD DETAIL 332
 - 17 LOOSE PLACED RIPRAP - SEE SHEET PD3 FOR DETAILS
 - 18 42" PIPE OUTFALL - SEE APWA STD 323.1 FOR DETAILS



1463 S. DIXIE DRIVE, SUITE 150
 ST. GEORGE, UT 84770
 435-986-0100

PRELIMINARY
NOT FOR
CONSTRUCTION

ROADWAY PLAN & PROFILE
 MILL CREEK DRIVE WEST EXTENSION
 MOAB, UTAH

PROJ #: F-18127
 DRAWN BY: CJE
 DESIGN BY: JIV
 CHECKED BY: CCH

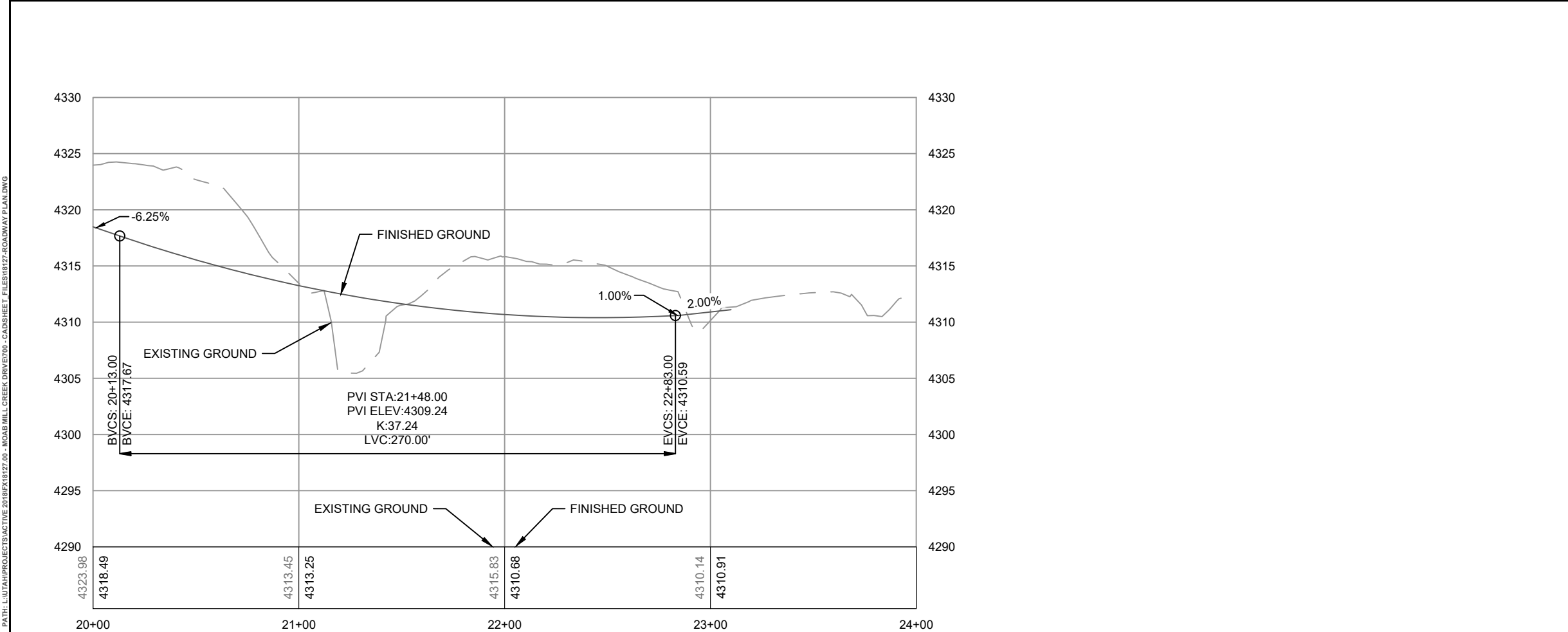
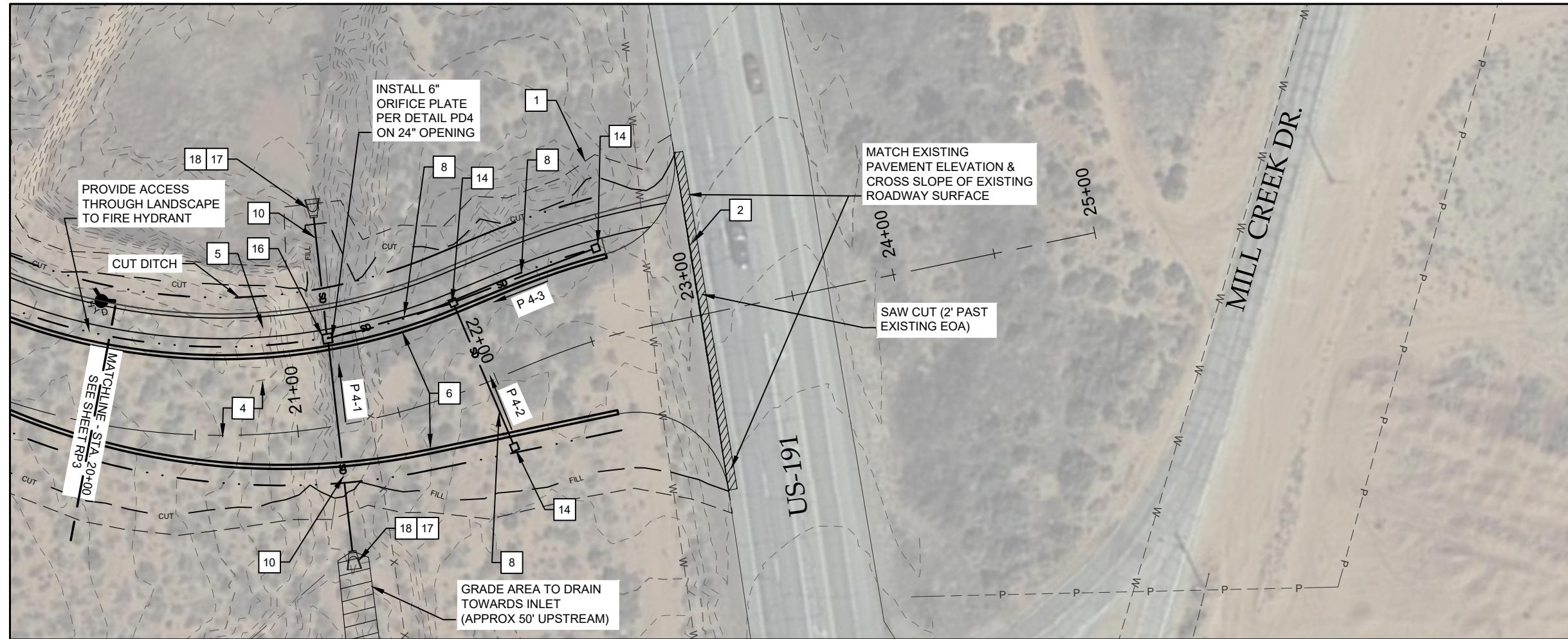
SCALE OF SHEET
 HOR SCALE: 1" = 60'
 VER SCALE: 1" = 11'

SHEET

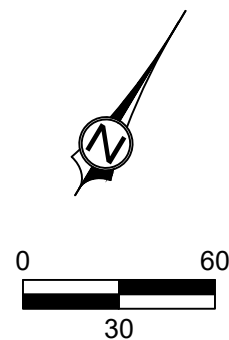
RP3

9

OF 49



- KEYNOTES:**
- 1 SITE CLEARING
 - 2 PAVEMENT REMOVAL
 - 3 ROADWAY EXCAVATION (PLAN QUANTITY) - SEE SHEET TS1 FOR DETAILS
 - 4 PLANT-MIX BITUMINOUS PAVING - SEE SHEET TS1 FOR DETAILS
 - 5 SHARED USE 4" CONCRETE TRAIL - SEE SHEET TS1 & SHEET PD1 FOR DETAILS
 - 6 2' CONCRETE FLAT CURB - SEE SHEET PD3 FOR DETAILS
 - 7 DETECTABLE WARNING SURFACE - SEE APWA STD DETAIL 238
 - 8 24" HDPE STORM DRAIN PIPE - REFER TO DP1 FOR PROFILE.
 - 9 30" HDPE STORM DRAIN PIPE - REFER TO DP1 FOR PROFILE.
 - 10 42" HDPE STORM DRAIN PIPE - REFER TO DP1 FOR PROFILE.
 - 11 24" PIPE OUTFALL - SEE APWA STD DETAIL 323.1
 - 12 30" PIPE OUTFALL - SEE APWA STD DETAIL 323.1
 - 13 OUTLET ORIFICE STRUCTURE - SEE SHEET PD4 FOR DETAILS
 - 14 3'X3' PRECAST BOX W/ GRID GRATE - SEE APWA STD DETAIL 332
 - 15 4'X4' PRECAST BOX W/ GRID GRATE - SEE APWA STD DETAIL 332
 - 16 6'X10' PRECAST BOX - SEE APWA STD DETAIL 332
 - 17 LOOSE PLACED RIPRAP - SEE SHEET PD3 FOR DETAILS
 - 18 42" PIPE OUTFALL - SEE APWA STD 323.1 FOR DETAILS



1463 S. DIXIE DRIVE, SUITE 150
ST. GEORGE, UT 84770
435-986-0100

PRELIMINARY
NOT FOR
CONSTRUCTION

ROADWAY PLAN & PROFILE

MILL CREEK DRIVE WEST EXTENSION
MOAB, UTAH

PROJ #: P-18127
DRAWN BY: CJE
DESIGN BY: JNV
CHECKED BY: CCH

SCALE OF SHEET
HOR SCALE: 1" = 60'
VER SCALE: 1" = 11'

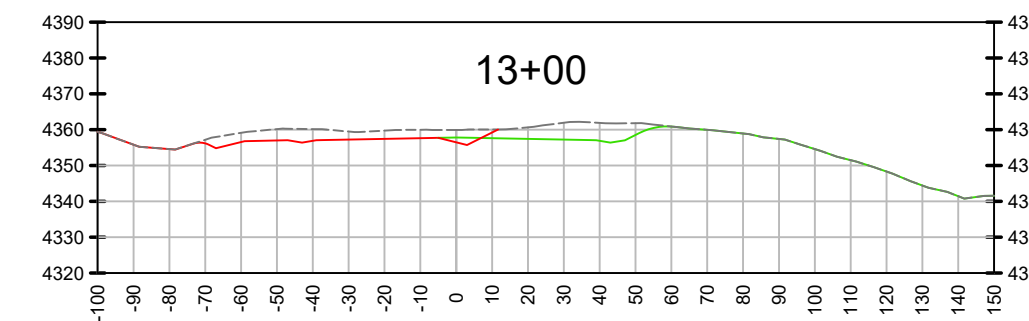
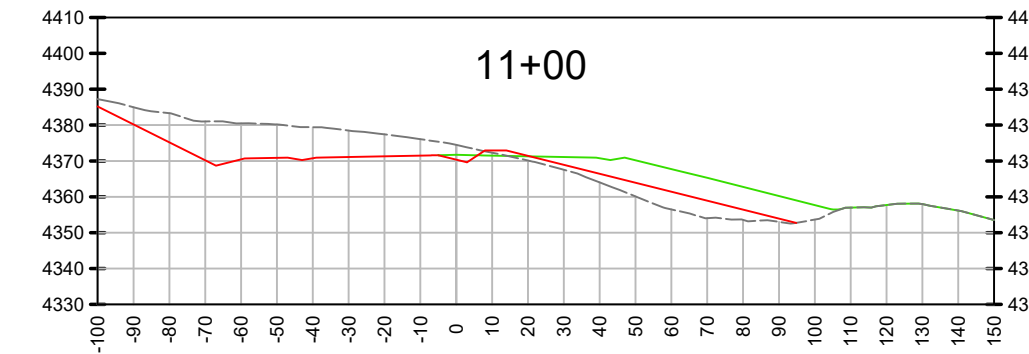
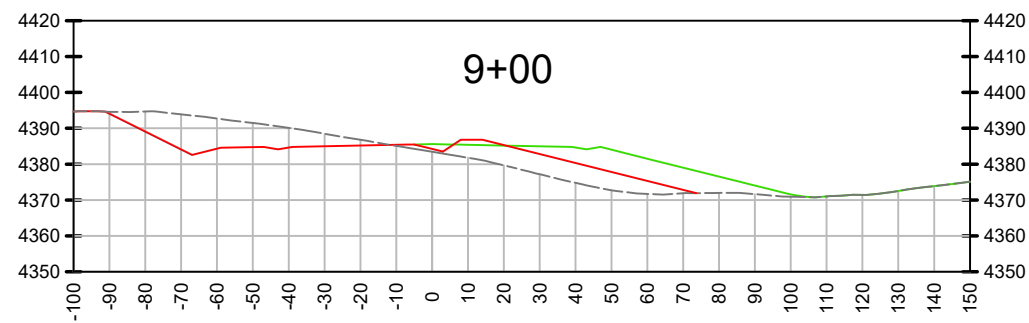
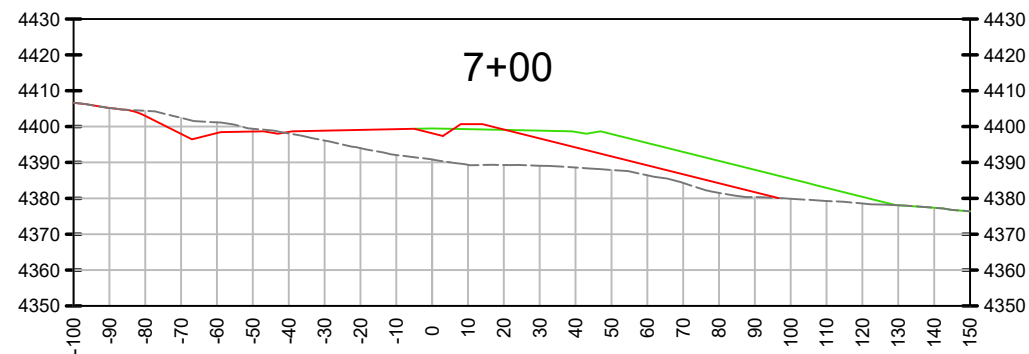
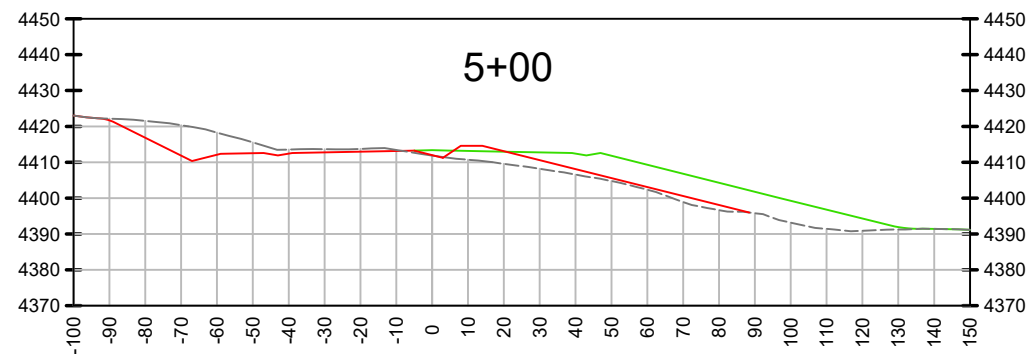
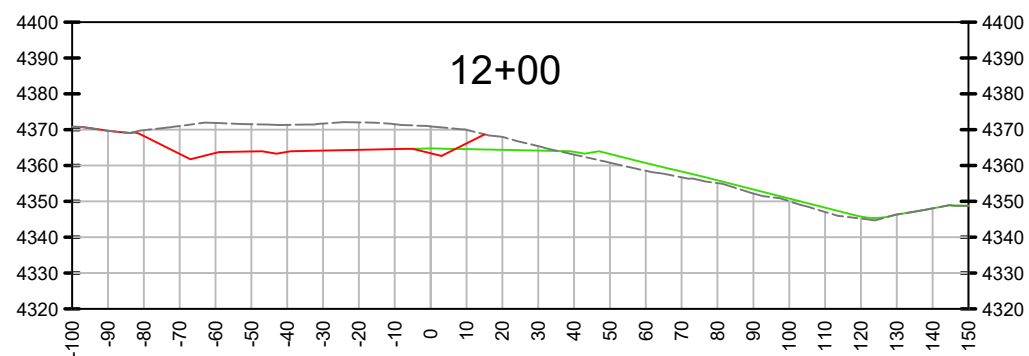
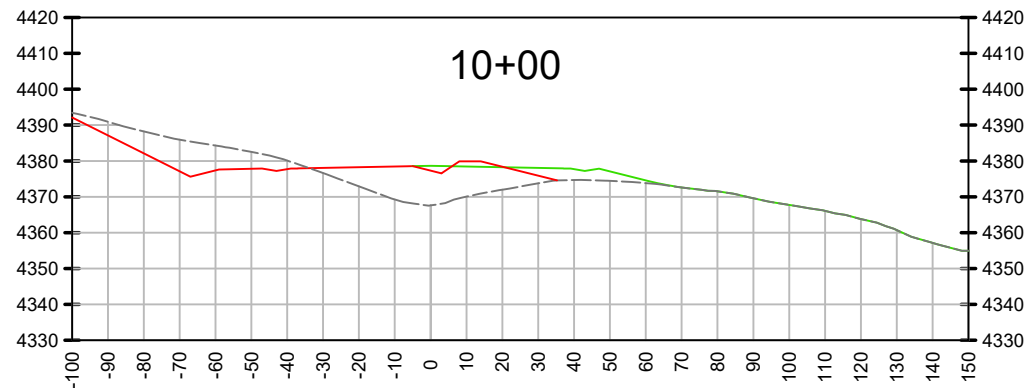
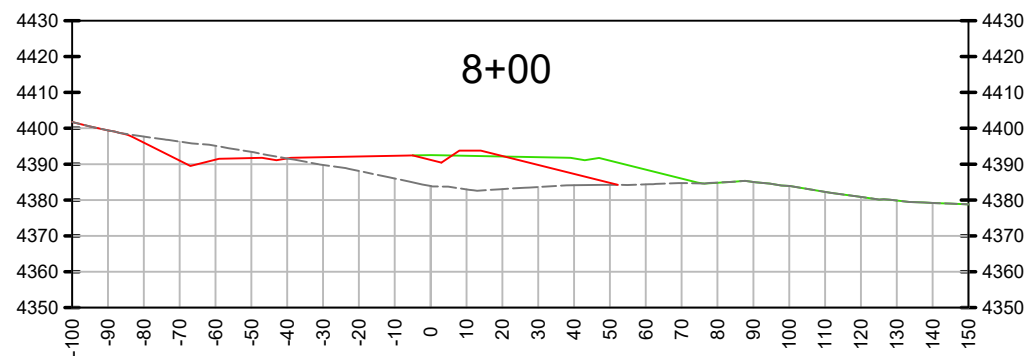
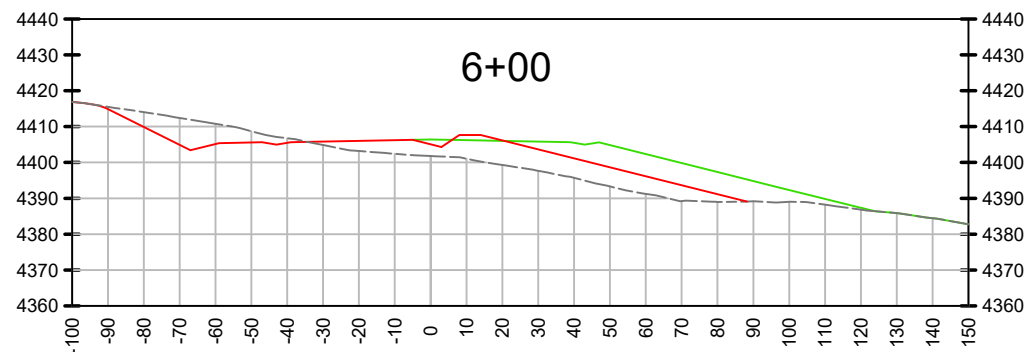
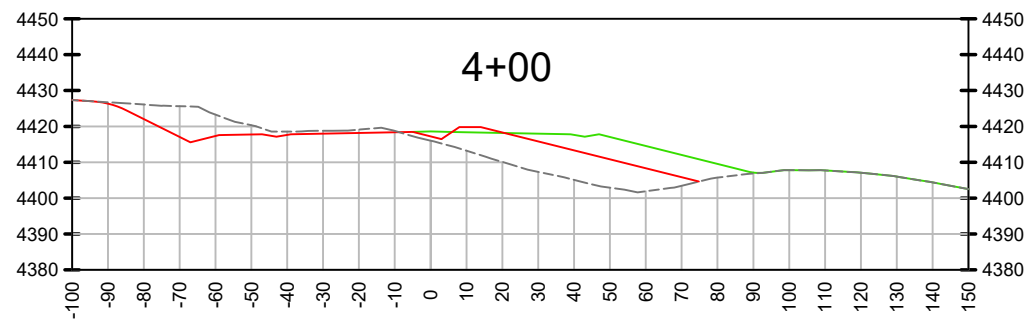
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RP4

10 OF 49

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PLOT: 2018_05_08_08:14 PM
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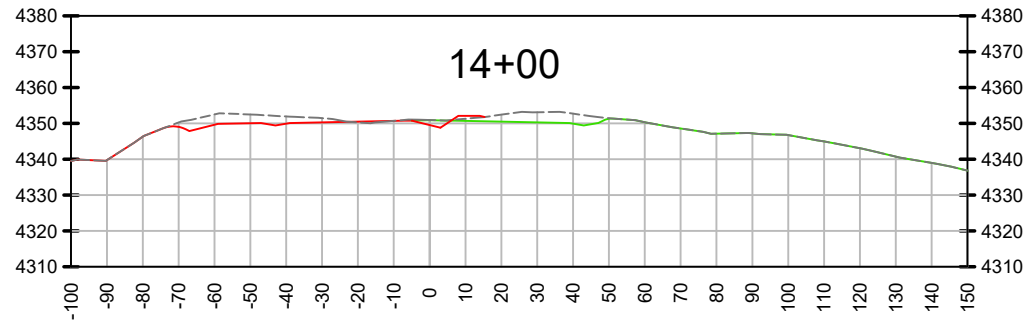
PRELIMINARY
 NOT FOR
 CONSTRUCTION

ROADWAY CROSS SECTIONS
 MILL CREEK DRIVE WEST EXTENSION
 MOAB, UTAH

PROJ #: FX-18127
 DRAWN BY: CJE
 DESIGN BY: JNV
 CHECKED BY: CCH
 SCALE OF SHEET
 HOR SCALE: N/A
 VER SCALE: N/A

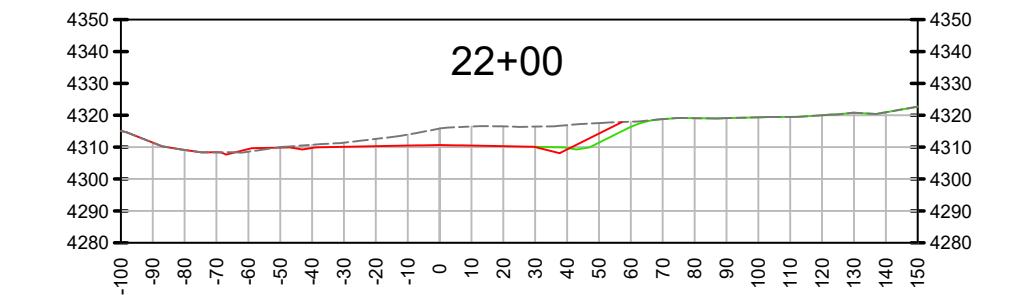
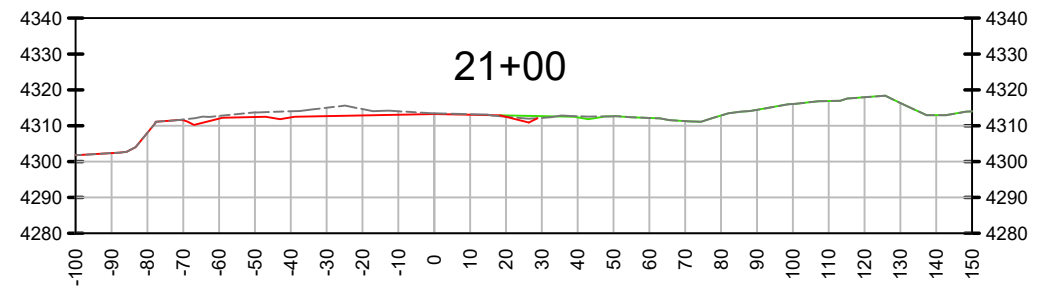
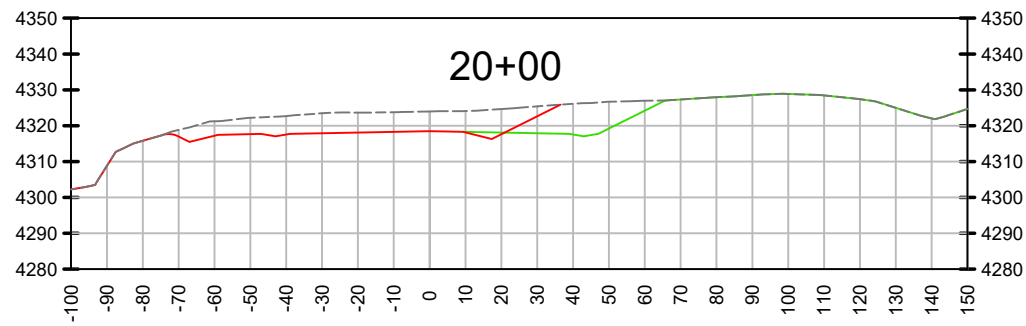
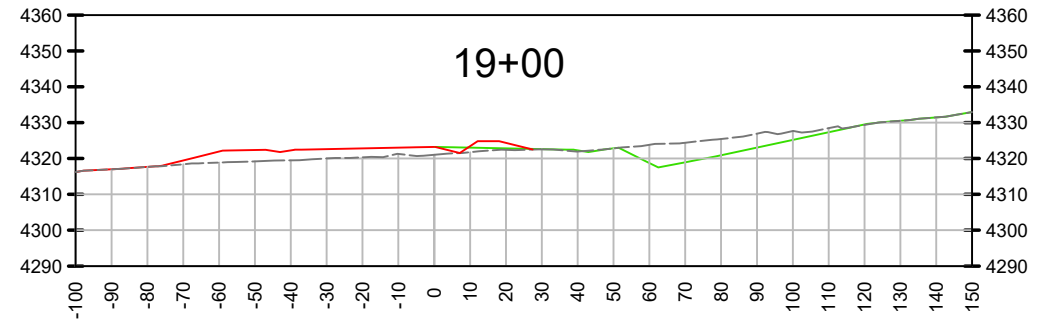
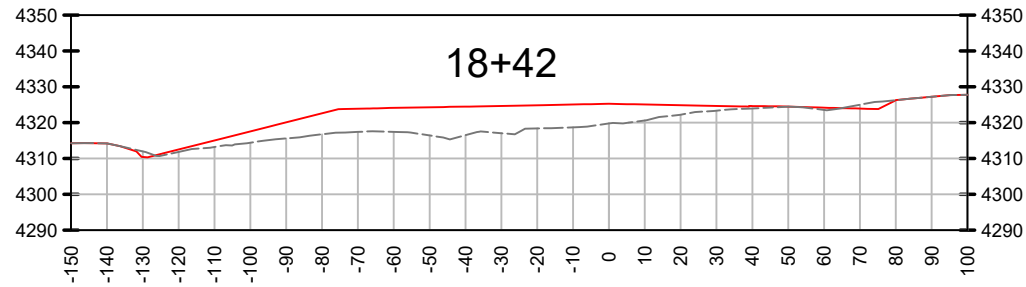
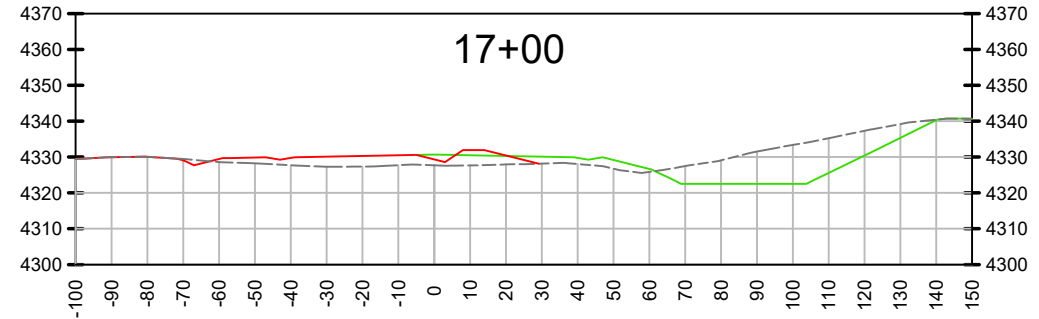
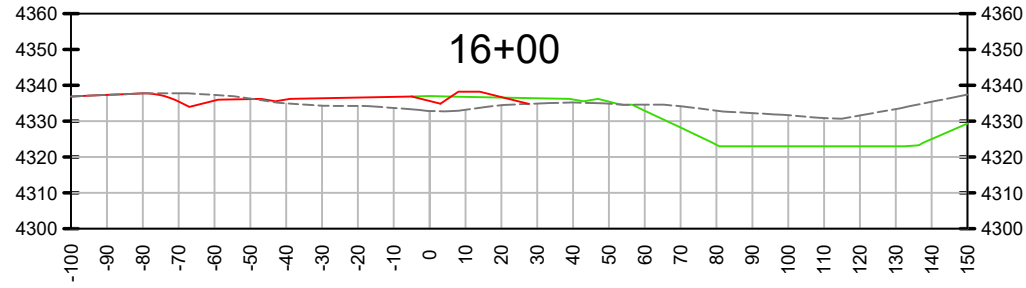
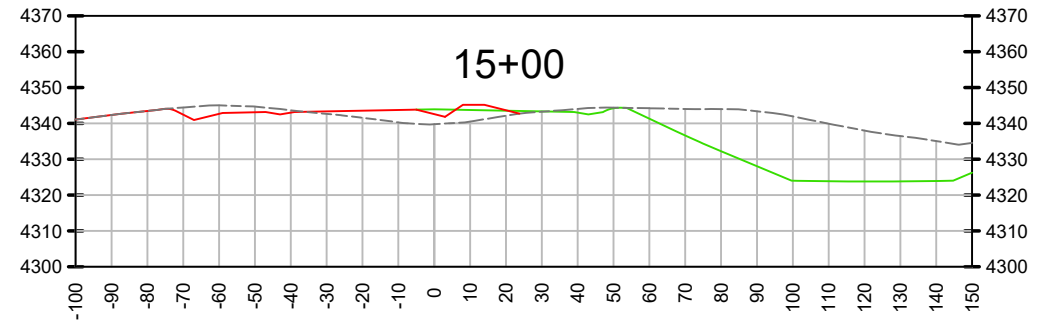
SHEET **RCS1**

PLOT: 2016_05_05_04:14 PM
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LEGEND

- EXISTING GROUND
- FULL BUILD
- INTERIM CONSTRUCTION



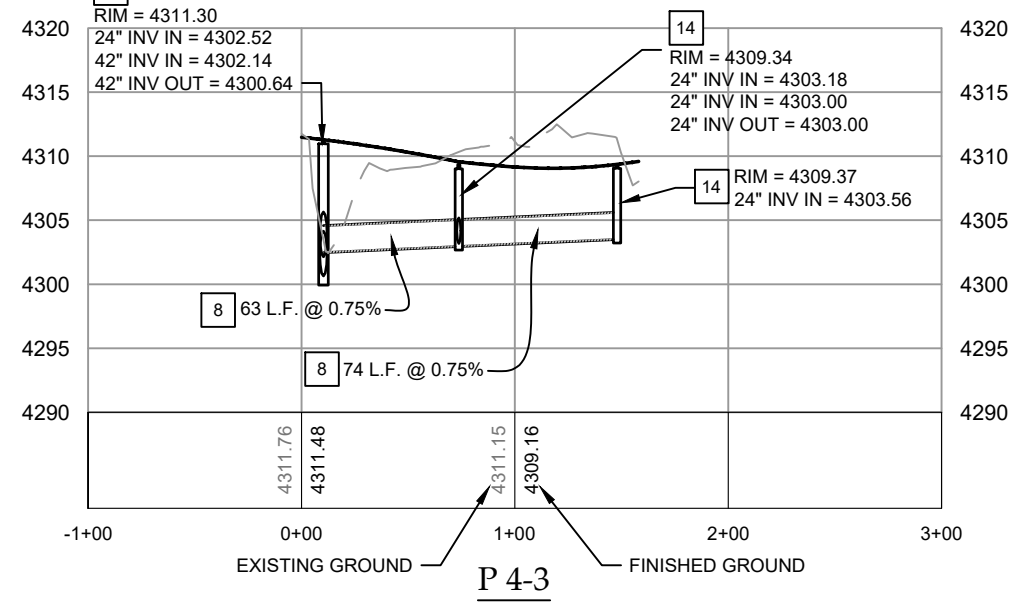
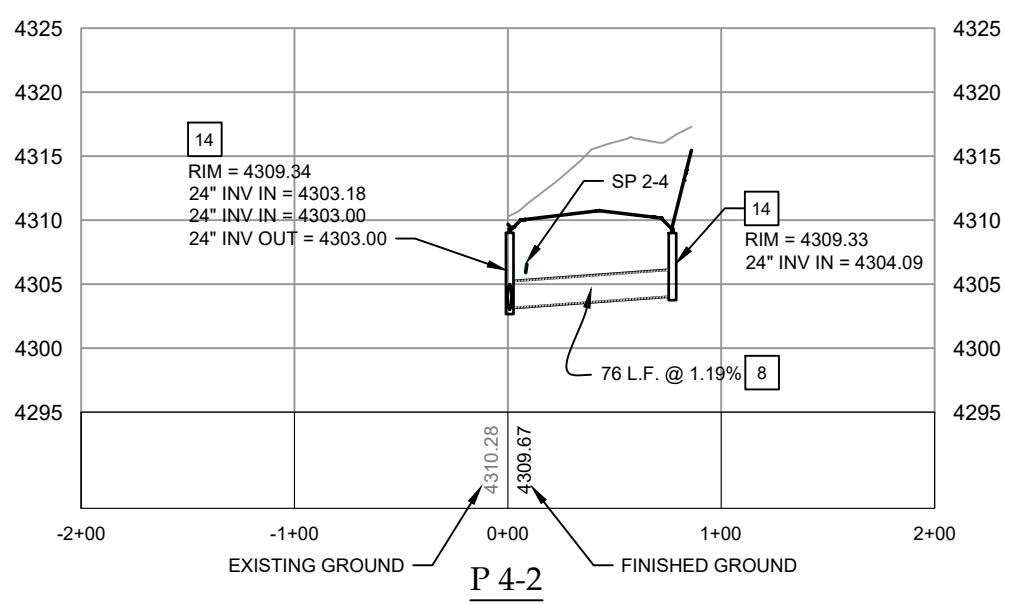
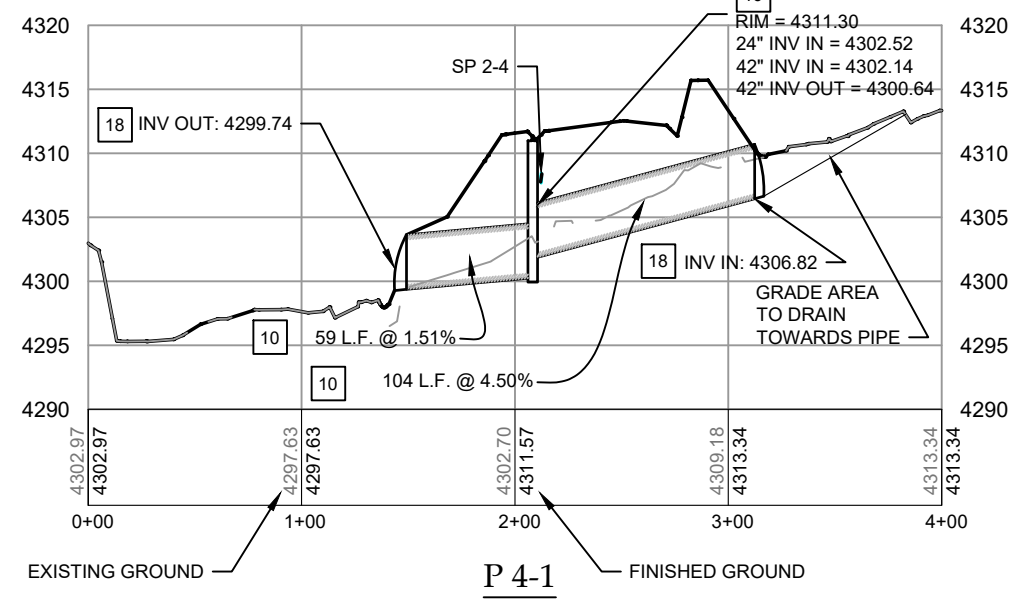
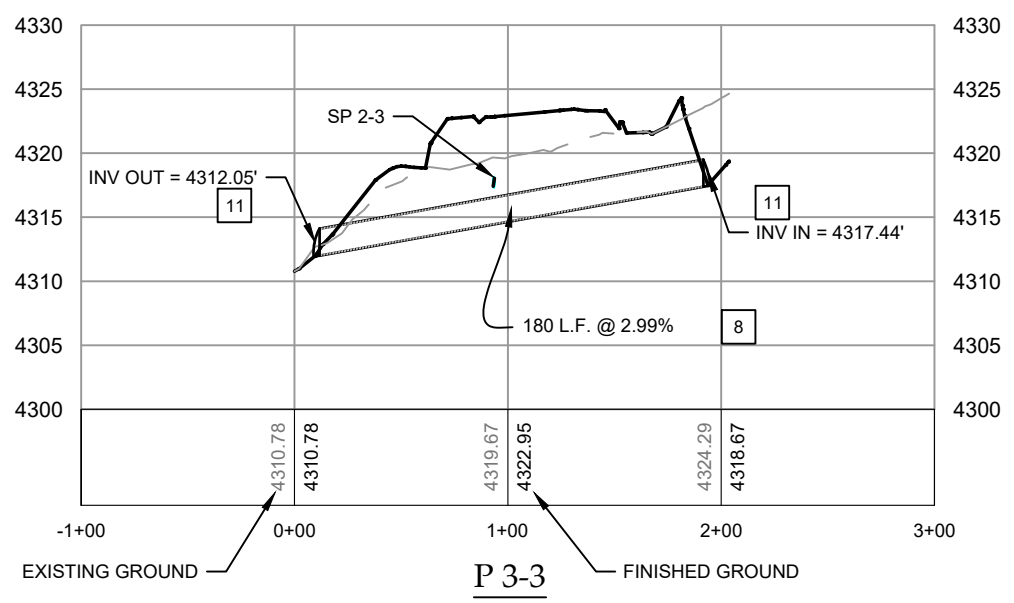
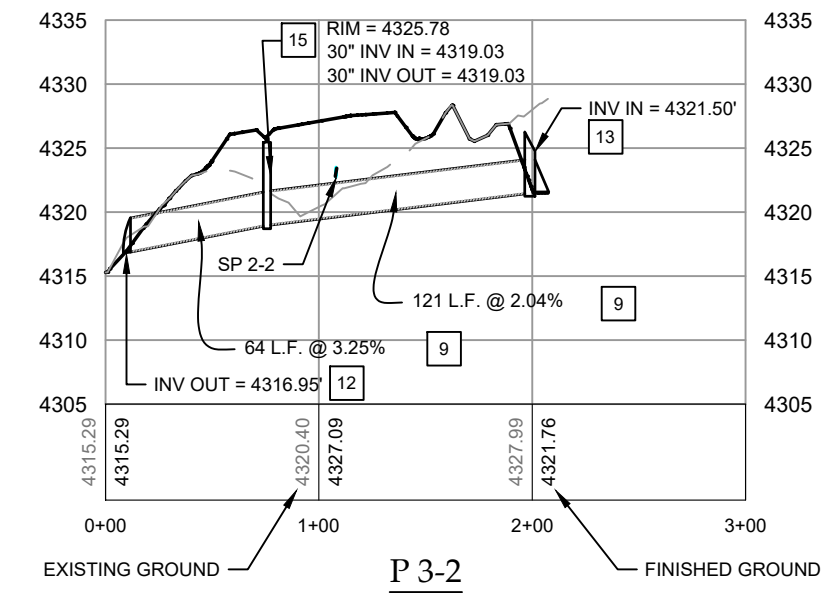
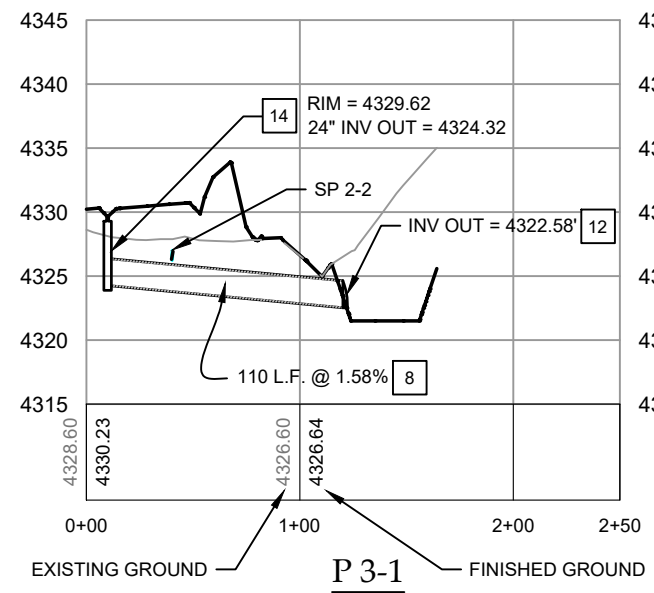
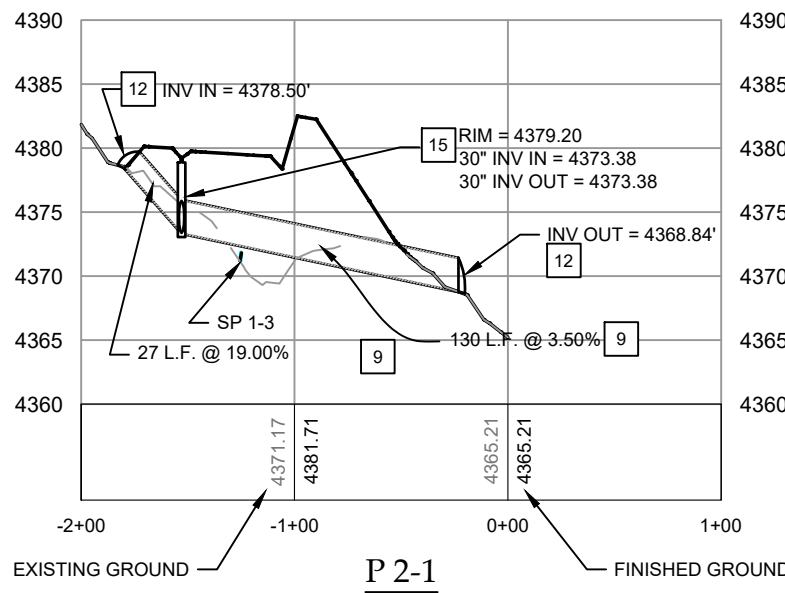
PRELIMINARY
 NOT FOR
 CONSTRUCTION

ROADWAY CROSS SECTIONS
 MILL CREEK DRIVE WEST EXTENSION
 MOAB, UTAH

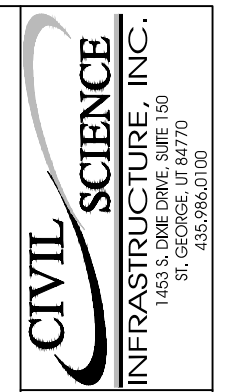
PROJ #: Fx-18127
 DRAWN BY: CJE
 DESIGN BY: JNV
 CHECKED BY: CCH
 SCALE OF SHEET:
 HOR SCALE: N/A
 VER SCALE: N/A

SHEET **RCS2**

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- KEYNOTES:**
- 1 SITE CLEARING
 - 2 PAVEMENT REMOVAL
 - 3 ROADWAY EXCAVATION (PLAN QUANTITY)
- SEE SHEET TS1 FOR DETAILS
 - 4 PLANT-MIX BITUMINOUS PAVING
- SEE SHEET TS1 FOR DETAILS
 - 5 SHARED USE 4" CONCRETE TRAIL
- SEE SHEET TS1 FOR DETAILS
 - 6 2' CONCRETE FLAT CURB
- SEE SHEET PD1 FOR DETAILS
 - 7 DETECTABLE WARNING SURFACE
- SEE APWA STD DETAIL 238
 - 8 24" HDPE STORM DRAIN PIPE
 - 9 30" HDPE STORM DRAIN PIPE
 - 10 42" HDPE STORM DRAIN PIPE
 - 11 24" PIPE OUTFALL
 - 12 30" PIPE OUTFALL
 - 13 OUTLET ORIFICE STRUCTURE
- SEE SHEET PD4 FOR DETAIL
 - 14 3'X3' PRECAST BOX W/ GRID GRATE
- SEE APWA STD DETAIL 332
 - 15 4'X4' PRECAST BOX W/ GRID GRATE
- SEE APWA STD DETAIL 332
 - 16 6'X10' PRECAST BOX
- SEE APWA STD DETAIL 332
 - 17 LOOSE - PLACED RIPRAP
 - 18 42" PIPE OUTFALL
- NOTES:**
1. REFER TO RP SHEETS FOR STORM DRAIN PIPE LOCATIONS.
 2. REFER TO UP3 SHEET FOR CROSSING SEWER LINES.

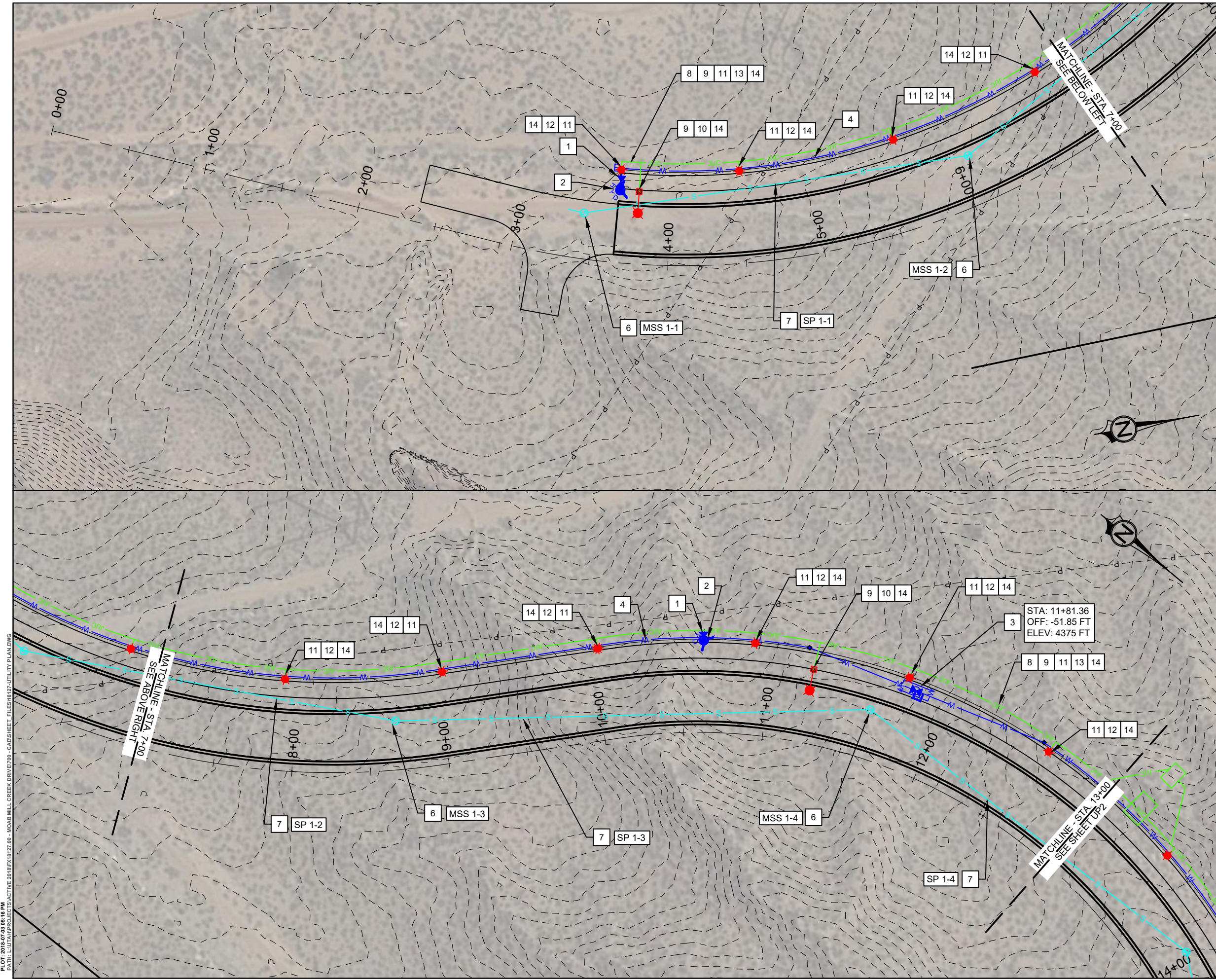


PRELIMINARY
 NOT FOR
 CONSTRUCTION

STORM DRAIN PROFILES
 MILL CREEK DRIVE WEST EXTENSION
 MOAB, UTAH

PROJ #:	Fx-18127
DRAWN BY:	CJE
DESIGN BY:	JW
CHECKED BY:	CCH
SCALE OF SHEET:	1" = 40'
HOR SCALE:	1" = 40'
VER SCALE:	1" = 10'

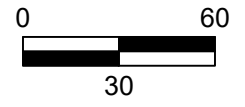
SHEET **DP1**



KEYNOTES:

- 1 10" GATE VALVE - SEE GWSSA STD DETAIL W02
- 2 FIRE HYDRANT ASSEMBLY - SEE GWSSA STD DETAIL W01
- 3 10" PRV STATION - SEE GWSSA STD DETAIL W08
- 4 10" PVC C900 WATER PIPE - SEE GWSSA STD DETAIL R01
- 5 MISC. WATER FITTINGS, RESTRAINTS, PIPING, & CONNECTIONS
- 6 48" SANITARY SEWER MANHOLE - SEE GWSSA STD DETAIL S01
- 7 10" PVC SDR35 SEWER PIPE - SEE GWSSA STD DETAIL R02
- 8 6" PVC CONDUIT RACEWAY - SEE SHEET PD1 FOR DETAILS
- 9 STREET LIGHTING, CONDUCTOR & TIE-INS - SEE SHEET PD1 FOR DETAILS
- 10 STREET LIGHT POLE & FIXTURE - SEE SHEET PD2 FOR DETAILS
- 11 TRAIL LIGHTING, CONDUCTOR & TIE-INS - SEE SHEET PD1 FOR DETAILS
- 12 TRAIL LIGHT BOLLARD & FIXTURE - SEE SHEET PD1 FOR DETAILS
- 13 3" PVC CONDUIT RACEWAY - SEE SHEET PD1 FOR DETAILS
- 14 2" PVC CONDUIT RACEWAY - SEE SHEET PD1 FOR DETAILS
- 15 COMMERCIAL METER PEDESTAL - SEE SHEET PD2 FOR DETAILS
- 16 8" PVC SDR 35 SEWER PIPE - SEE GWSSA STD DETAIL R02

STA: 11+81.36
OFF: -51.85 FT
ELEV: 4375 FT



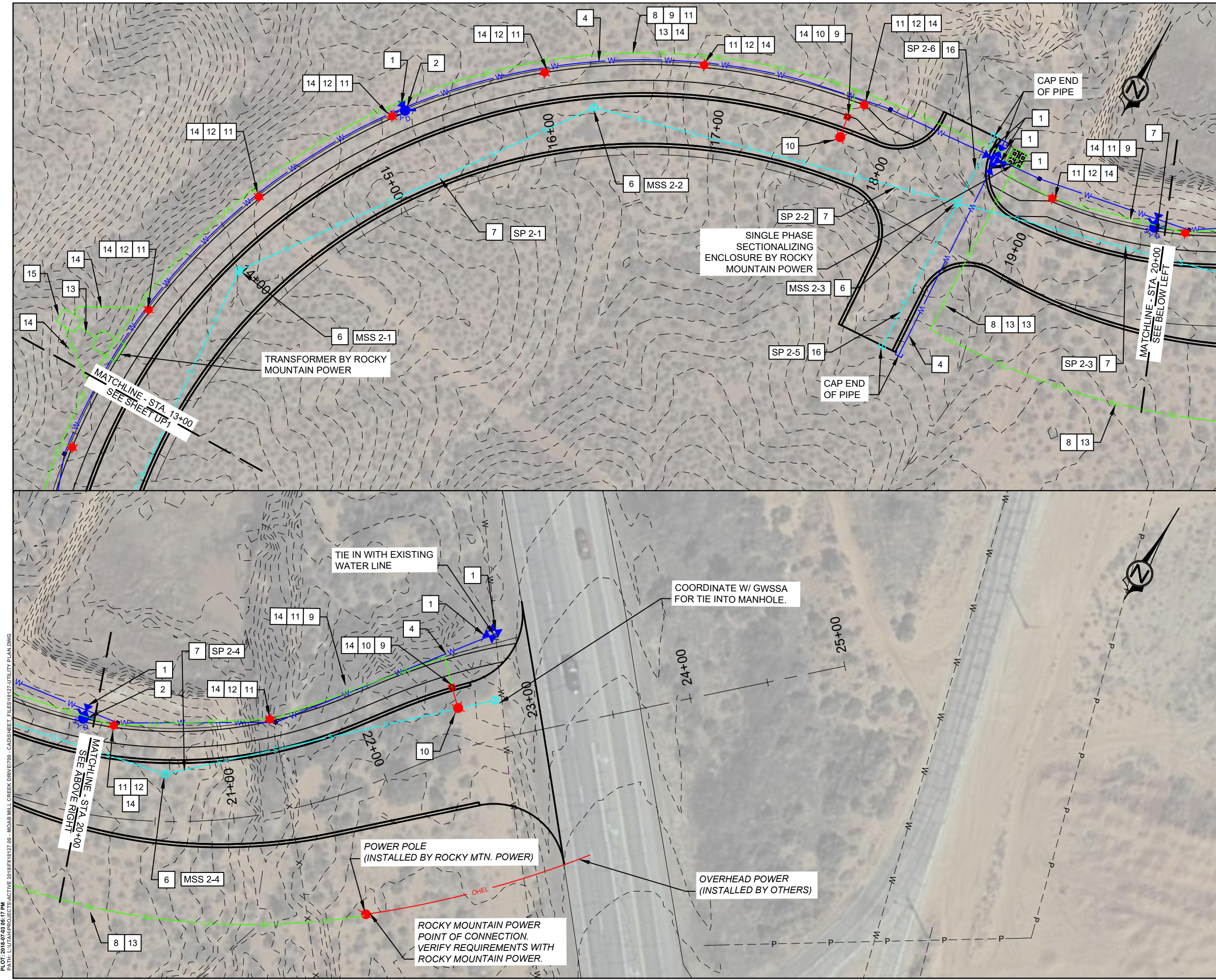
**PRELIMINARY
NOT FOR
CONSTRUCTION**

UTILITY PLANS
MILL CREEK DRIVE WEST EXTENSION
MOAB, UTAH

PROJ #: F-18127
DRAWN BY: CJE
DESIGN BY: JNV
CHECKED BY: CCH
SCALE OF SHEET
HOR SCALE: 1"=60'
VER SCALE: N/A

SHEET **UP1**

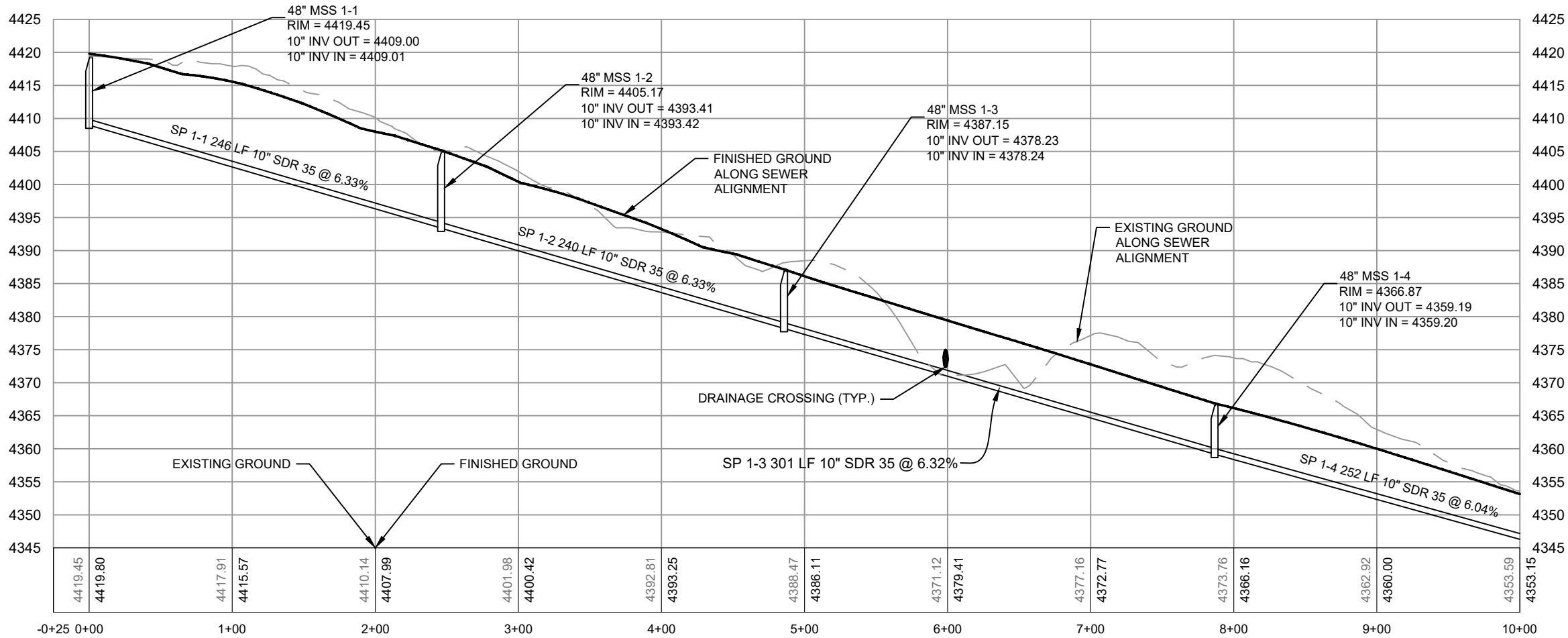
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KEYNOTES:

- 1 10" GATE VALVE - SEE GWSSA STD DETAIL W02
- 2 FIRE HYDRANT ASSEMBLY - SEE GWSSA STD DETAIL W01
- 3 10" PRV STATION - SEE GWSSA STD DETAIL W08
- 4 10" PVC C900 WATER PIPE - SEE GWSSA STD DETAIL R01
- 5 MISC. WATER FITTINGS, RESTRAINTS, PIPING, & CONNECTIONS
- 6 48" SANITARY SEWER MANHOLE - SEE GWSSA STD DETAIL S01
- 7 10" PVC SDR35 SEWER PIPE - SEE GWSSA STD DETAIL R02
- 8 6" PVC CONDUIT RACEWAY - SEE SHEET PD1 FOR DETAILS
- 9 STREET LIGHTING, CONDUCTOR & TIE-INS - SEE SHEET PD1 FOR DETAILS
- 10 STREET LIGHT POLE & FIXTURE - SEE SHEET PD2 FOR DETAILS
- 11 TRAIL LIGHTING, CONDUCTOR & TIE-INS - SEE SHEET PD1 FOR DETAILS
- 12 TRAIL LIGHT BOLLARD & FIXTURE - SEE SHEET PD1 FOR DETAILS
- 13 3" PVC CONDUIT RACEWAY - SEE SHEET PD1 FOR DETAILS
- 14 2" PVC CONDUIT RACEWAY - SEE SHEET PD1 FOR DETAILS
- 15 COMMERCIAL METER PEDESTAL - SEE SHEET PD2 FOR DETAILS
- 16 8" PVC SDR 35 SEWER PIPE - SEE GWSSA STD DETAIL R02

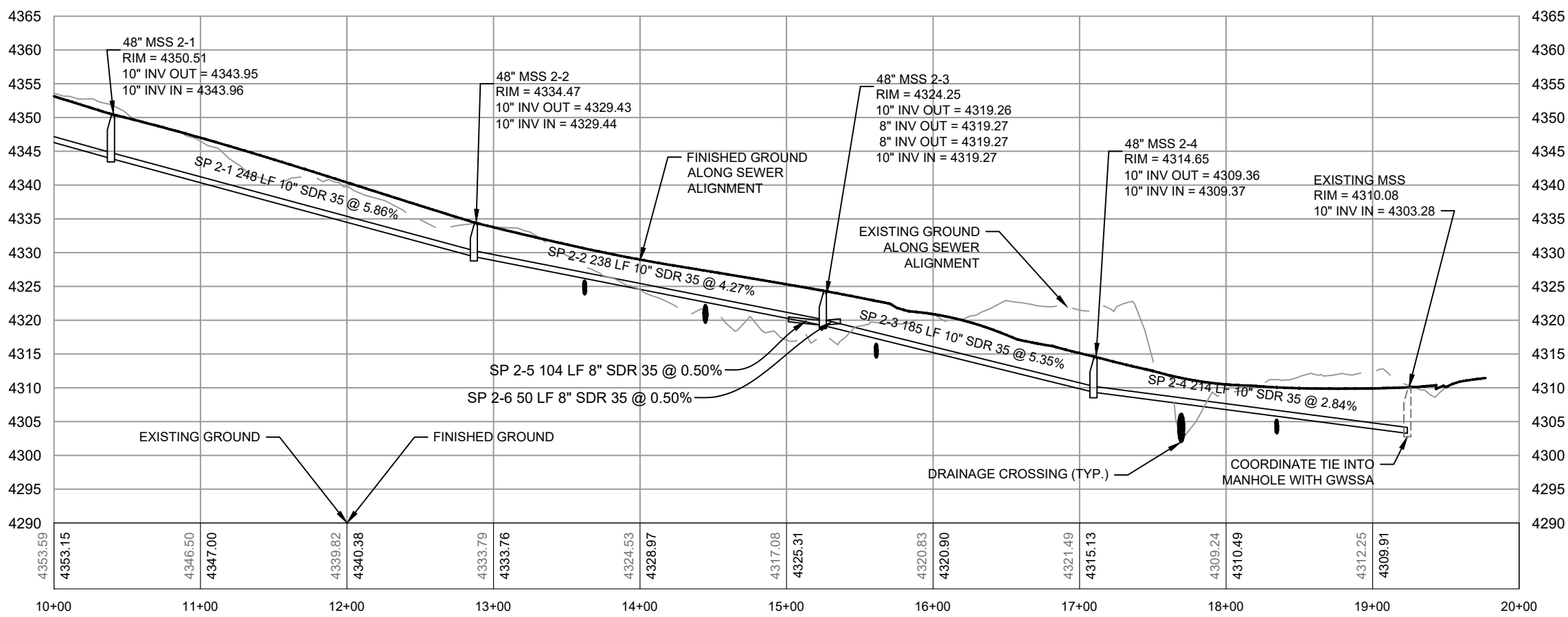
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- NOTES:**
- REFER TO UP1 & UP2 SHEETS FOR SEWER LINE LOCATIONS.
 - REFER TO SD1 SHEET FOR CROSSING STORM DRAINS.

PRELIMINARY
 NOT FOR
 CONSTRUCTION

UTILITY PROFILES
 MILL CREEK DRIVE WEST EXTENSION
 MOAB, UTAH

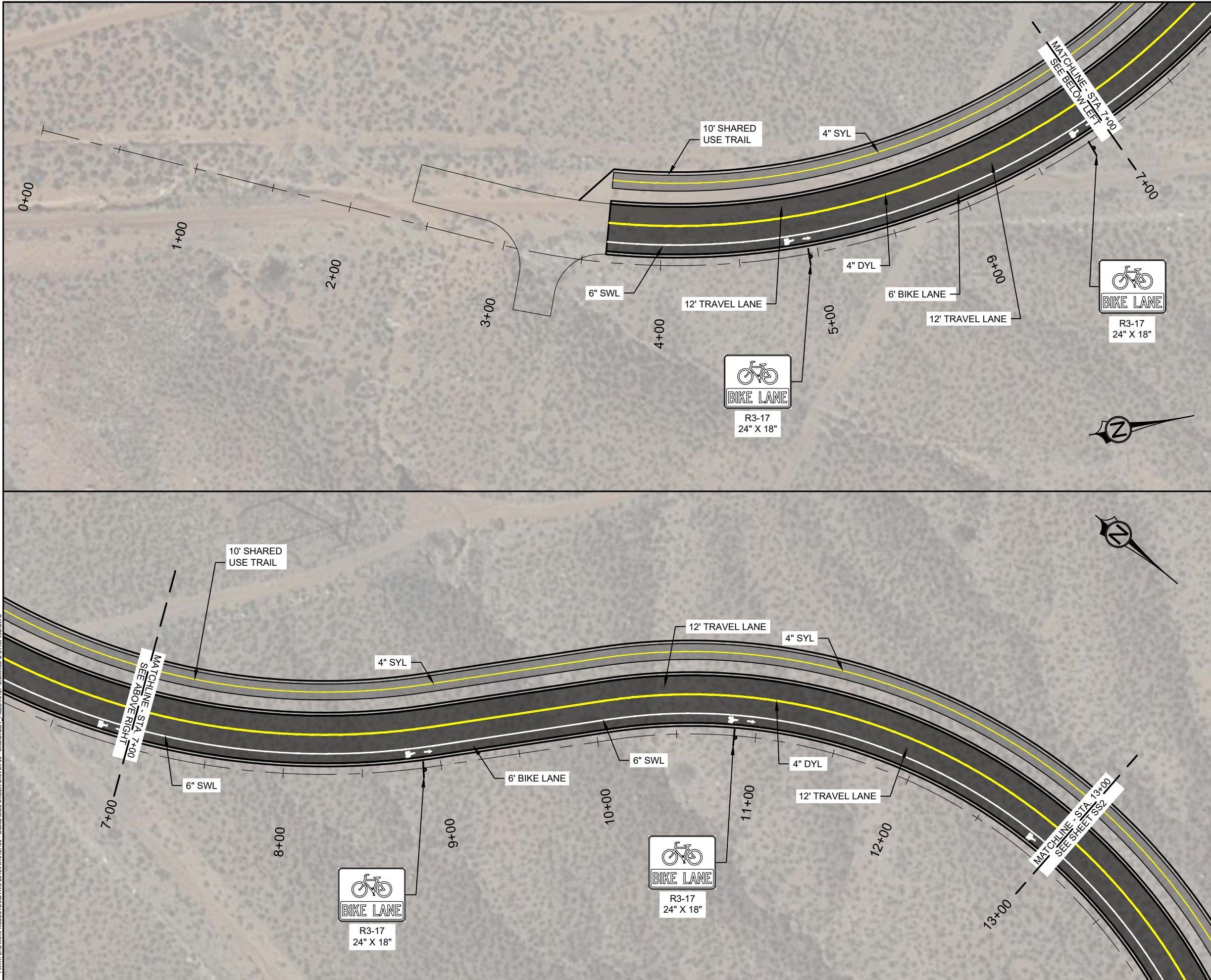


PROJ #	F-18127
DRAWN BY	CJE
DESIGN BY	JW
CHECKED BY	CCH
SCALE OF SHEET	HOR SCALE: 1" = 60'
	VER SCALE: 1" = 12'

SHEET **UP3**

P:\CT\016_05_08_18\PM\PATH\UTAH\PROJECTS\ACTIVE\2018\PM\18127\00 - MOAB MILL CREEK DRIVE\18127-00 - CAD\DWG\FILES\18127\UTILITY\PROFILES.DWG

PLOT: 2016.05.05.09.00 PM
 PATH: C:\TEMP\PROJECTS\ACTIVE 2016\PKY\127.00 - MOAB MILL CREEK DRIVE\700 - CAD\SSHEET_FILES\127-SIGNAGE & STRIPING.DWG



STRIPING KEY:

- SWL - SOLID WHITE LINE
- SYL - SOLID YELLOW LINE
- DYL - DOUBLE YELLOW LINE
- BWL - BROKEN WHITE LINE
- BYL - BROKEN YELLOW LINE
- DWL - DOTTED WHITE LINE
- LDL - LANE DROP LINE
- S&BYL - SOLID AND BROKEN YELLOW LINE
- SL - STOP LINE

NOTES:

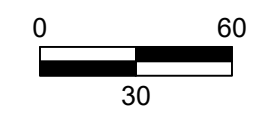
1. SEE SHEET SD3 FOR SIGN DETAILS

**PRELIMINARY
 NOT FOR
 CONSTRUCTION**

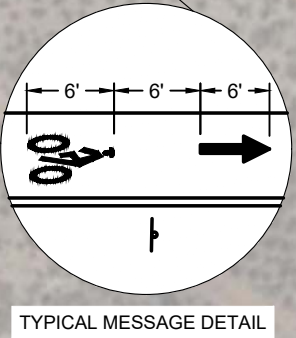
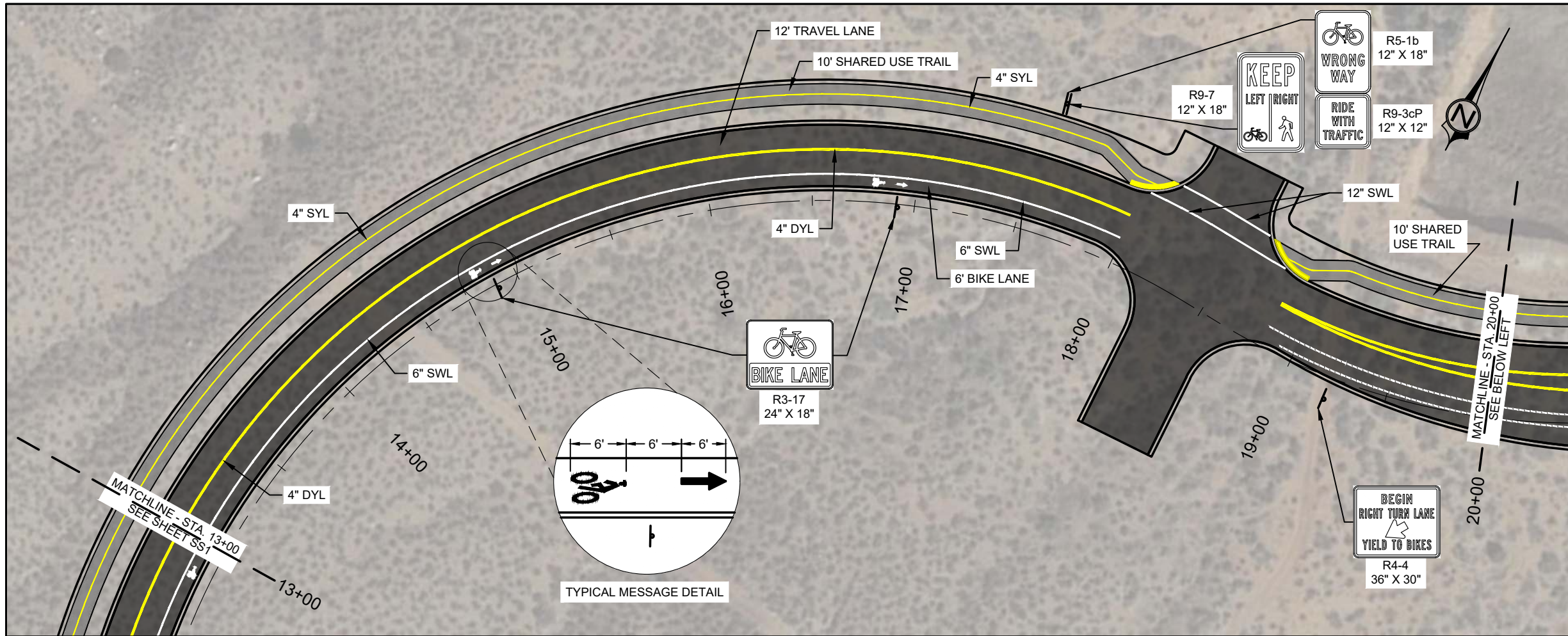
SIGNAGE & STRIPING
 MILL CREEK DRIVE WEST EXTENSION
 MOAB, UTAH

PROJ #:	F-18127
DRAWN BY:	CJE
DESIGN BY:	JW
CHECKED BY:	CCH
SCALE OF SHEET:	
HOR SCALE:	1" = 60'
VER SCALE:	N/A

SHEET **SS1**



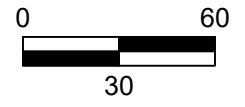
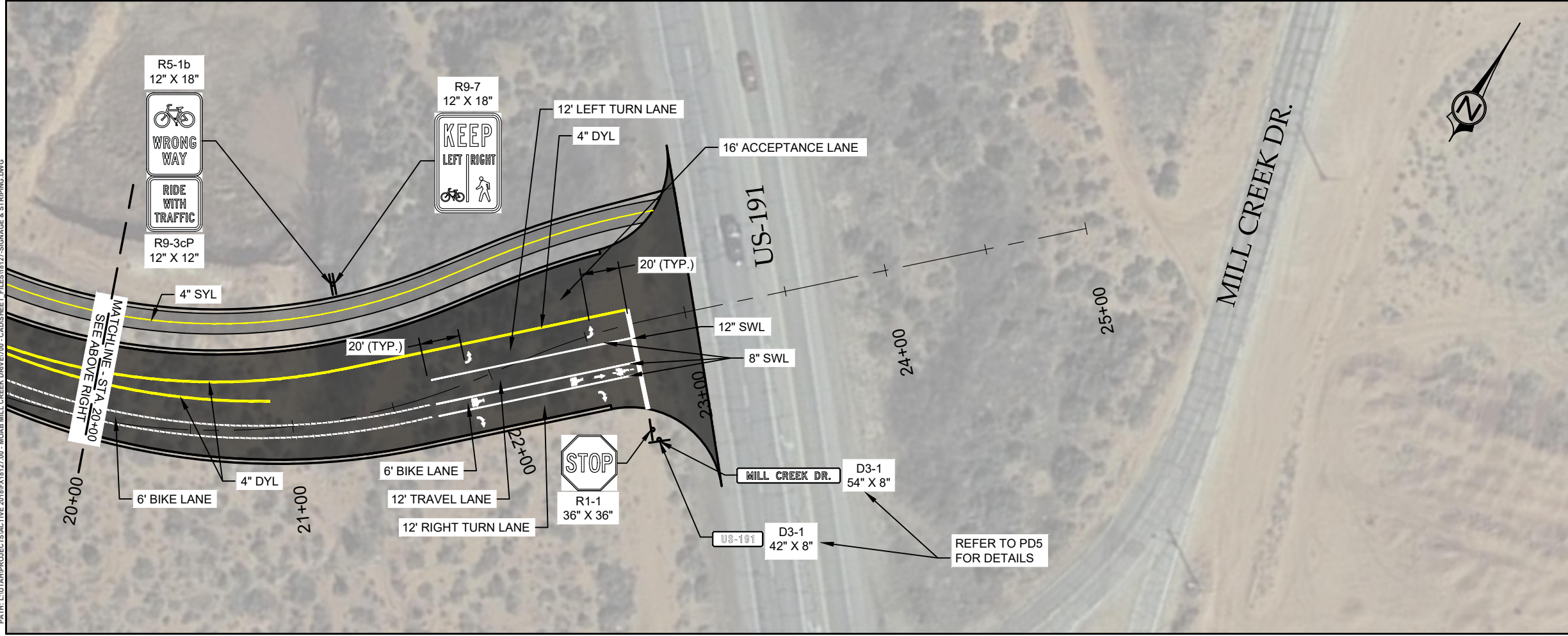
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 P:\CT\2018\PROJECTS\ACTIVE\2018\FX\18127.00 - MOAB MILL CREEK DRIVE\700 - CAD\SSHEET FILES\18127-SIGNAGE & STRIPING.DWG



- STRIPING KEY:**
- SWL - SOLID WHITE LINE
 - SYL - SOLID YELLOW LINE
 - DYL - DOUBLE YELLOW LINE
 - BWL - BROKEN WHITE LINE
 - BYL - BROKEN YELLOW LINE
 - DWL - DOTTED WHITE LINE
 - LDL - LANE DROP LINE
 - S&BYL - SOLID AND BROKEN YELLOW LINE
 - SL - STOP LINE

- NOTES:**
- SEE SHEET SD1 FOR SIGN DETAILS

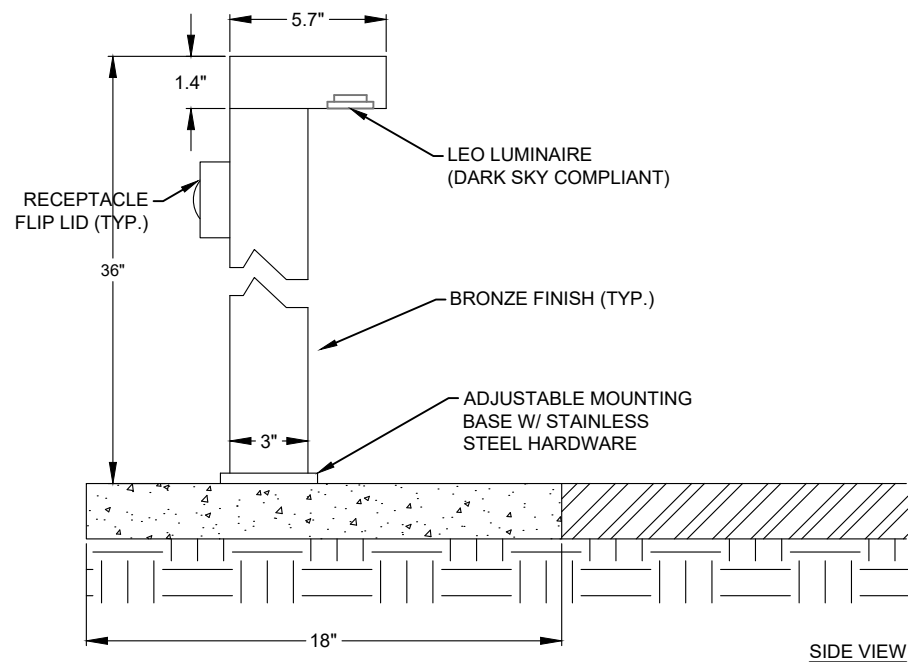
PRELIMINARY
 NOT FOR
 CONSTRUCTION



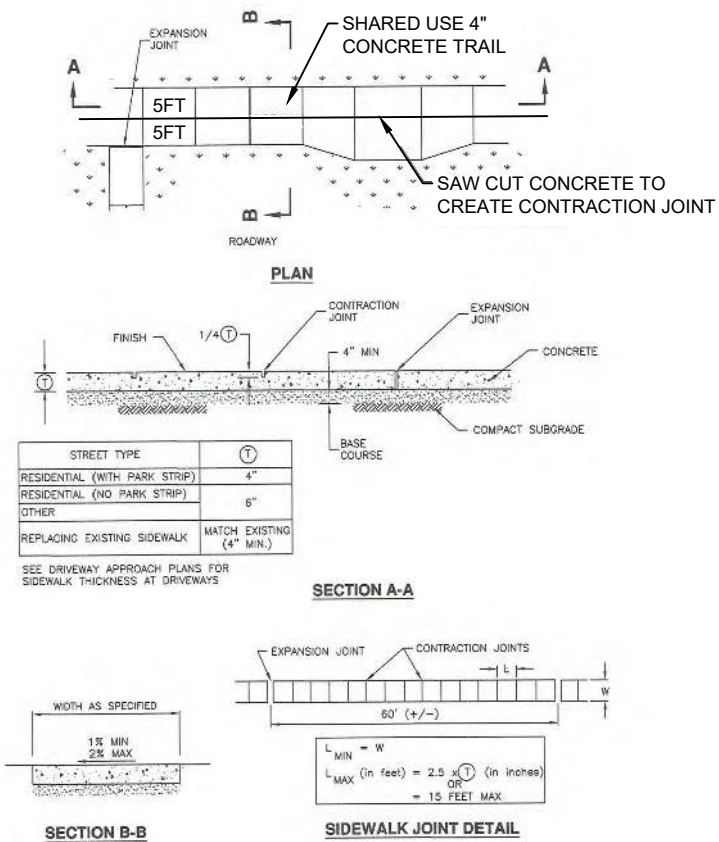
SIGNAGE & STRIPING MILL CREEK DRIVE WEST EXTENSION MOAB, UTAH	
PROJ #: F-18127 DRAWN BY: CJE DESIGN BY: JW CHECKED BY: CCH SCALE OF SHEET: HOR SCALE: 1" = 60' VER SCALE: N/A	SHEET <div style="text-align: center; font-size: 24pt; font-weight: bold;">SS2</div>
18 OF 49	

NOTES:

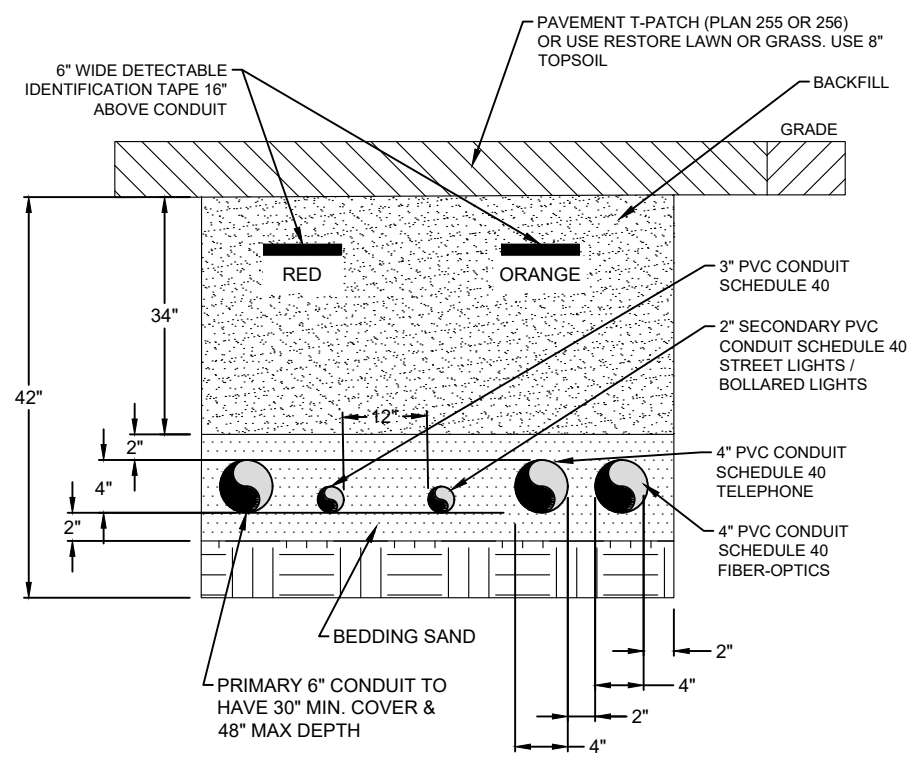
- BOLLARD LIGHT SHALL BE EON 303-B1-LEDB1 BY EATON OR APPROVED EQUAL
- BOLLARD SHALL INCLUDE (18" X 18") CONCRETE PAD
- INSTALL BOLLARD PER MANUFACTURER'S RECOMMENDATIONS



1 BOLLARD LIGHTS DETAIL VIEW

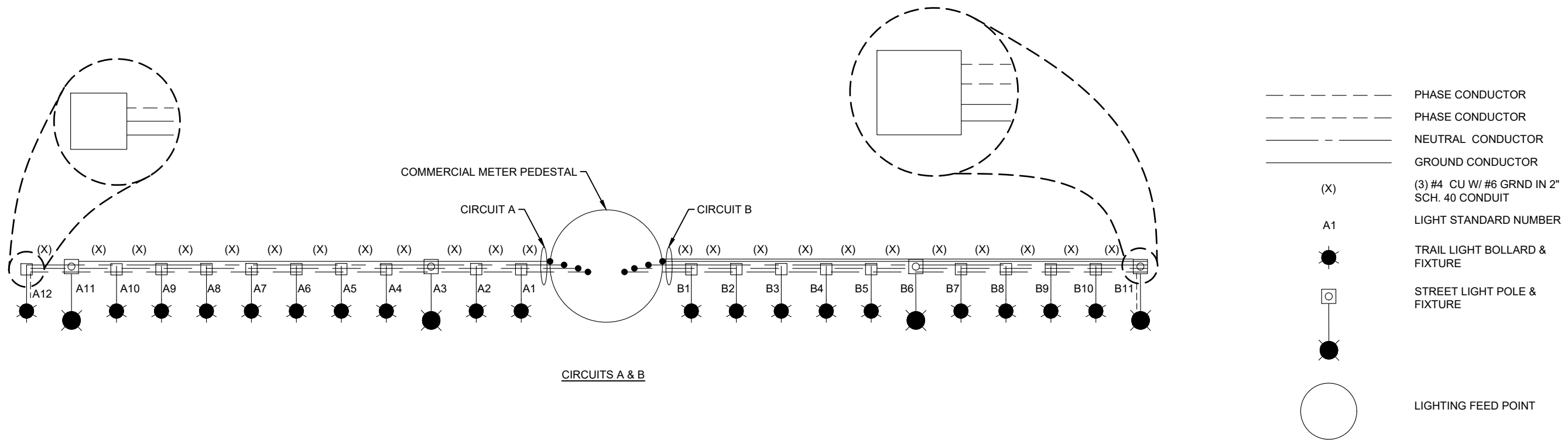


2 MODIFIED SIDEWALK

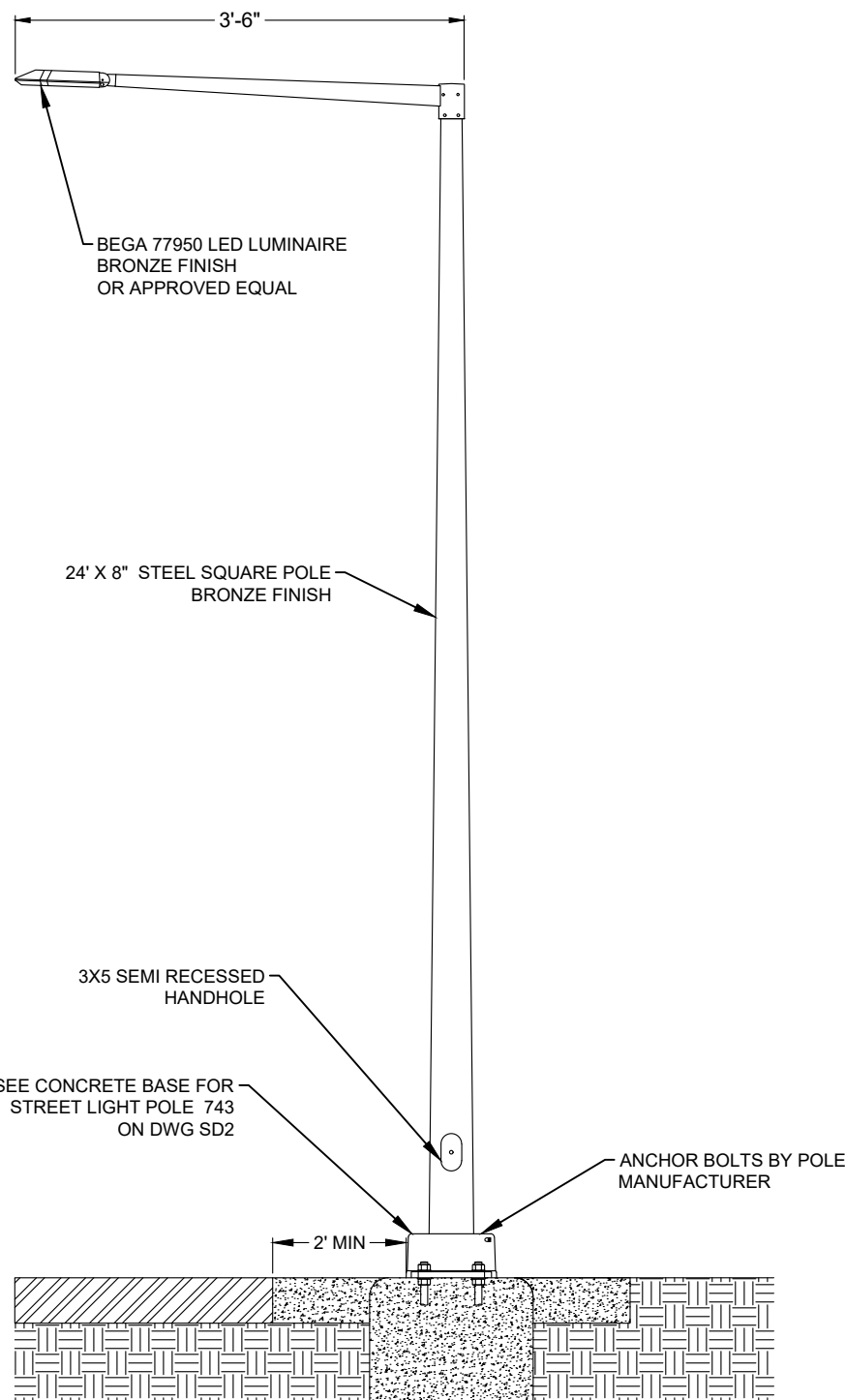


3 MODIFIED JOINT UTILITY TRENCH

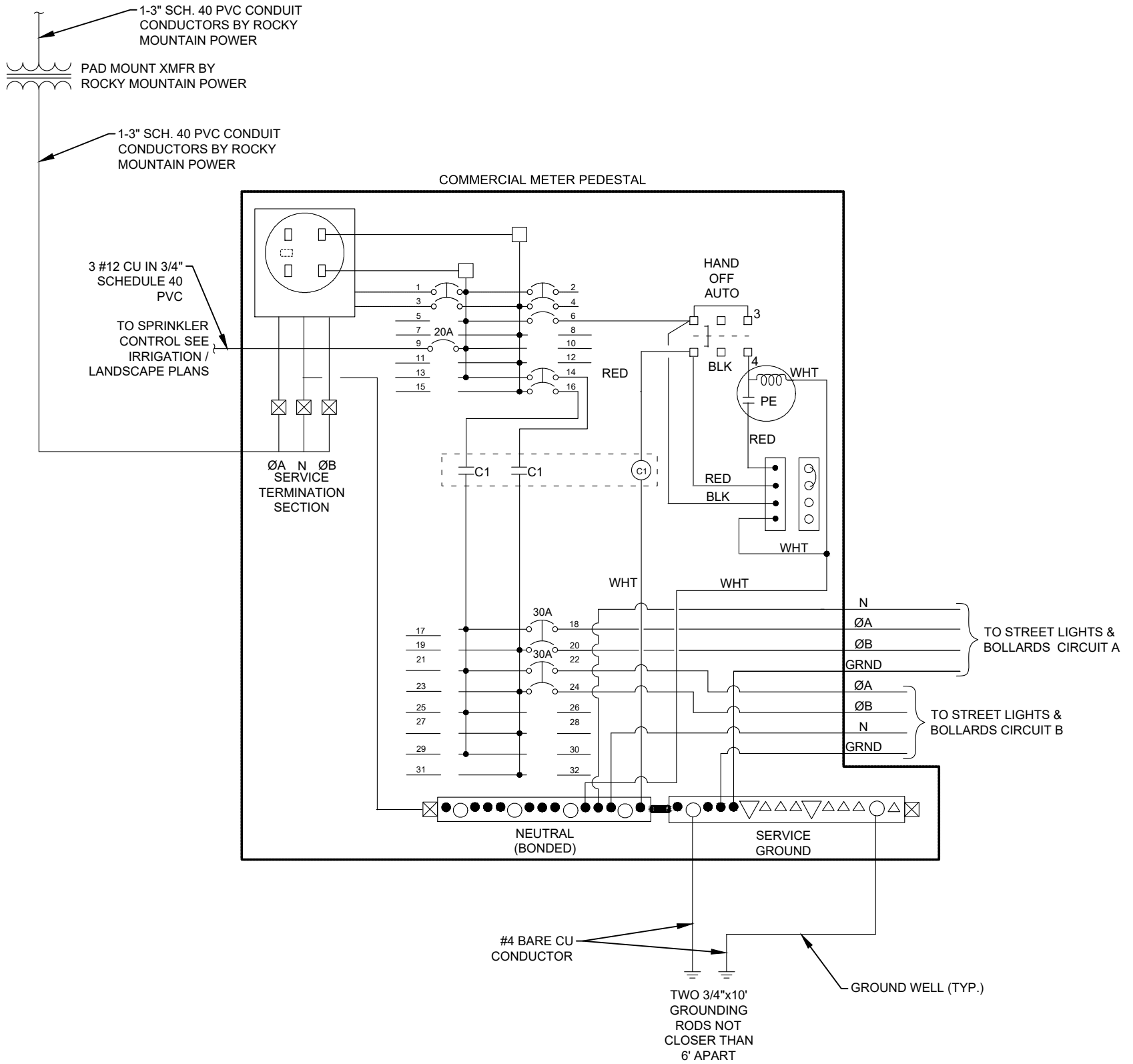
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 P:\TH\CL\DATA\PROJECTS\ACTIVE 2018\PROJECTS\MOAB MILL CREEK DRIVE\700 - CAD\DWG - MOAB MILL CREEK DRIVE\700 - CAD\DWG - PROJECT DETAILS.DWG



4 LIGHTING CIRCUIT DETAIL



1 STREET LIGHT DETAIL



2 ONE LINE DIAGRAM

PLOT: 09/16/25 09:06:00 PM
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PRELIMINARY
 NOT FOR
 CONSTRUCTION

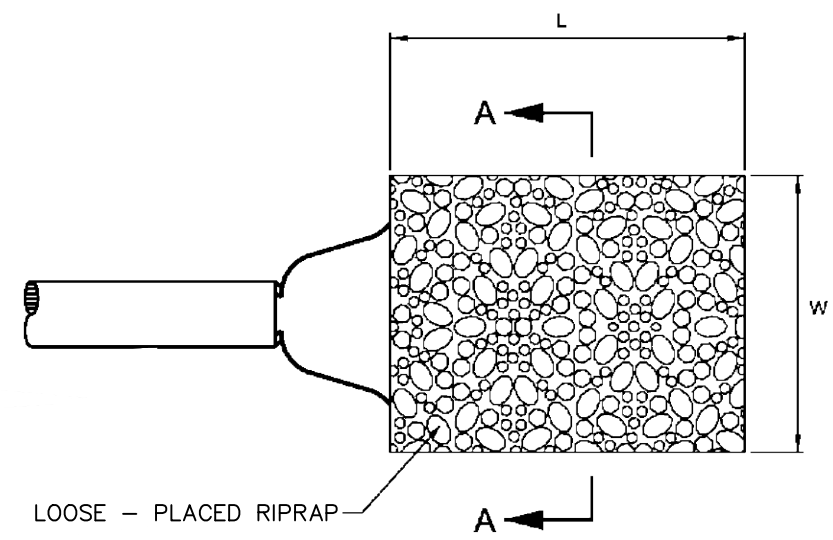
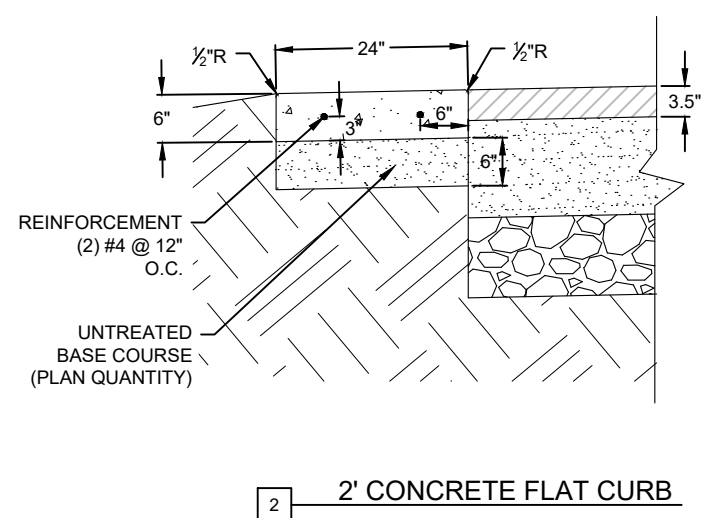
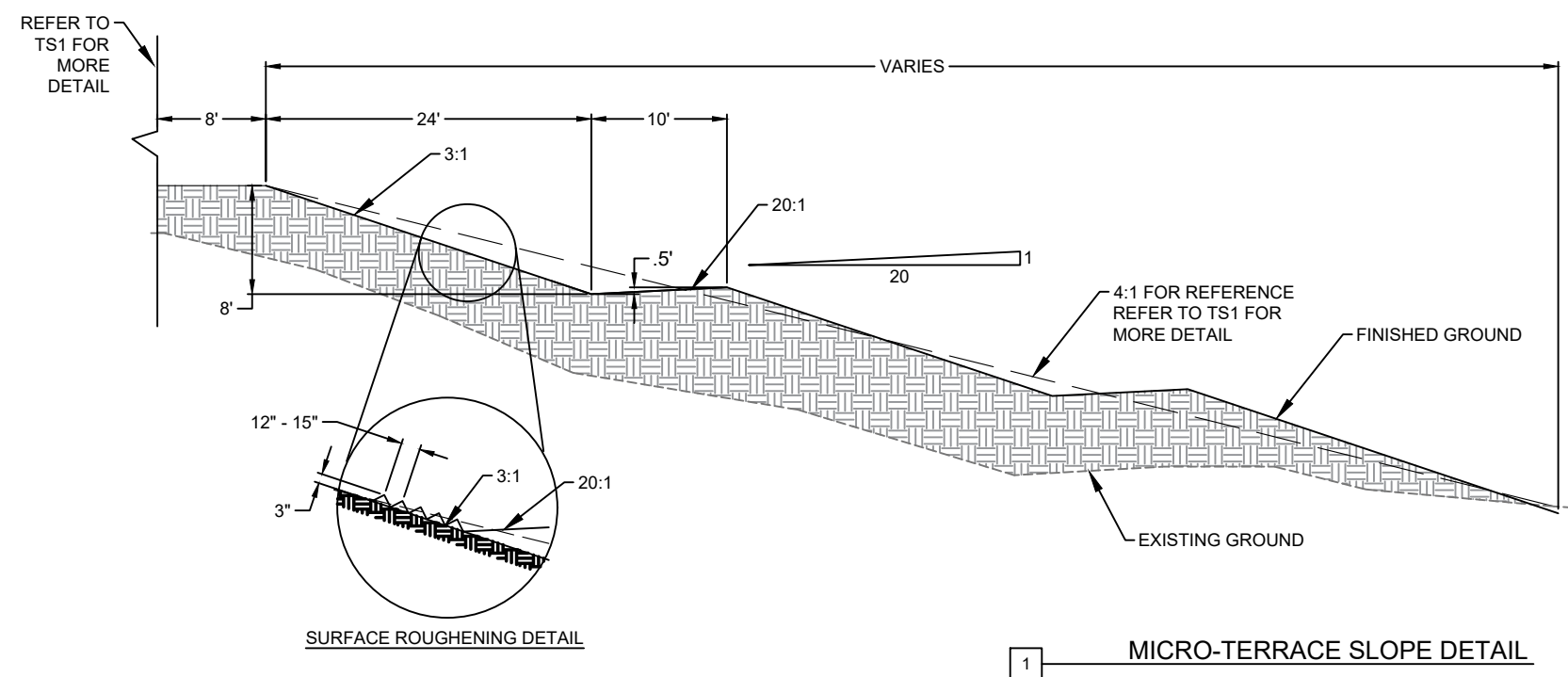
PROJECT DETAILS
 MILL CREEK DRIVE WEST EXTENSION
 MOAB, UTAH

PROJ #: Fx-18127
 DRAWN BY: CJE
 DESIGN BY: JNV
 CHECKED BY: CCH
 SCALE OF SHEET:
 HOR SCALE: N/A
 VER SCALE: N/A

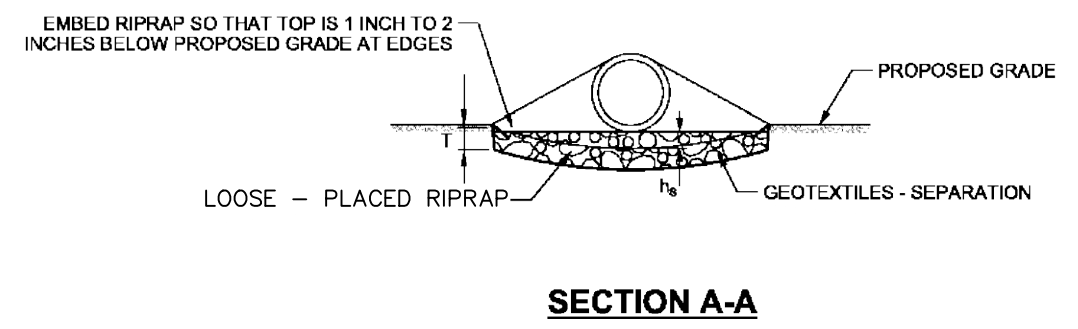
SHEET PD2

- NOTES:
1. GRADED AREAS ARE REQUIRED TO BE ROUGHENED BEFORE SEEDING.
 2. AVOID EXCESSIVE COMPACTING OF THE SOIL SURFACE WHEN SCARIFYING.
 3. GROOVE STAIR STEPS IN 3:1 SLOPE AS SHOWN IN DETAIL.
 4. HYDROSEEDING REQUIRED ON ALL EXPOSED SLOPES - REFER TO LANDSCAPING SHEETS FOR SEED MIX.

- NOTES:
1. CONCRETE-CLASS 4000 - APWA SECTION 03 30 04
 2. UNTREATED BASE COURSE - APWA SECTION 32 11 23
 3. EXPANSION JOINT FILLER 1/2" THICK TYPE F1 FULL DEPTH - APWA SECTION 32 13 23.
 4. REINFORCEMENT-GALVANIZED OR EPOXY COATED, DEFORMED, 60 PSI GRADE STEEL, ASTM A 615
 5. CONCRETE CURING AGENT-APWA SECTION 03 39 00
 6. FIBER REINFORCED MAY BE USED IN LIEU OF STEEL REINFORCEMENT - 3.0 LBS/ CUBIC YARD SYNTHETIC MACRO FIBER TUF STRAND MAXTEN SYNTHETIC FIBERS OR APPROVED EQUAL.
 7. JOINT SPACING - APWA PLAN 209
 8. REFER TO SHEET TS1 FOR ADDITIONAL INFORMATION REGARDING BID ITEMS

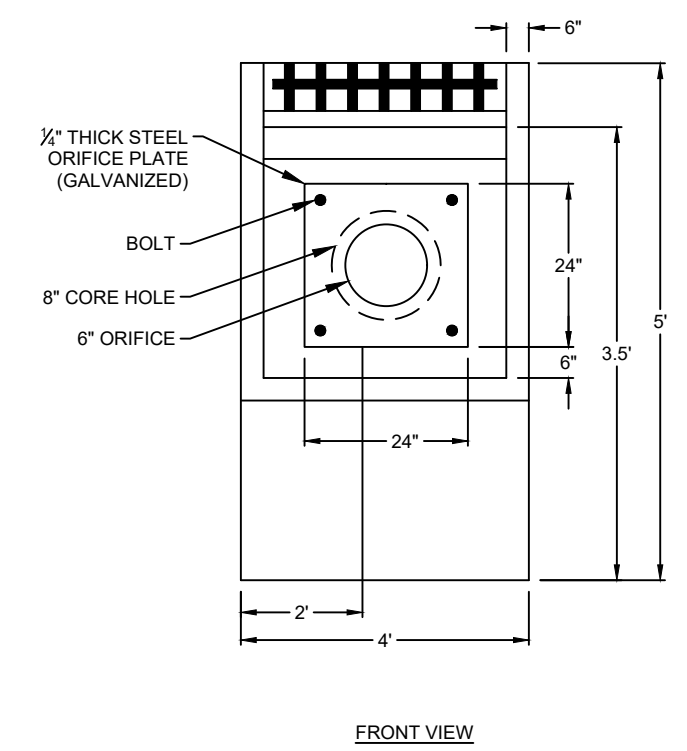
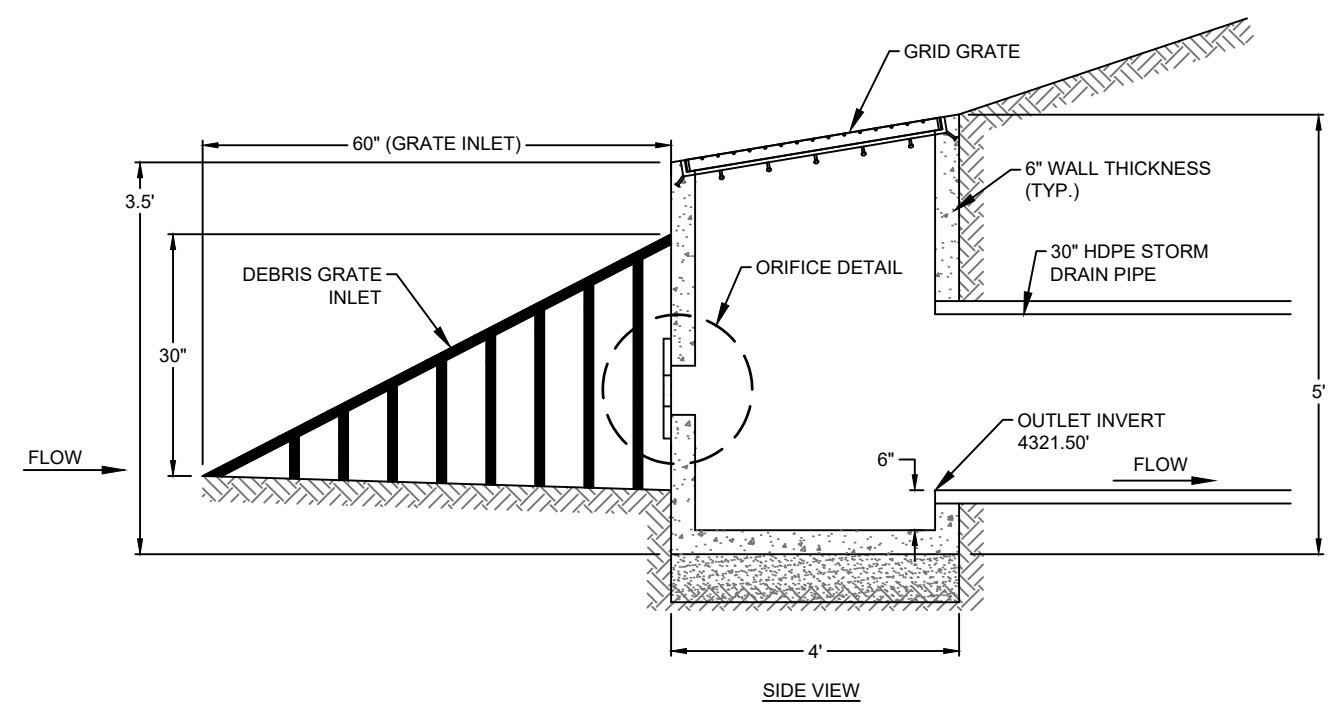
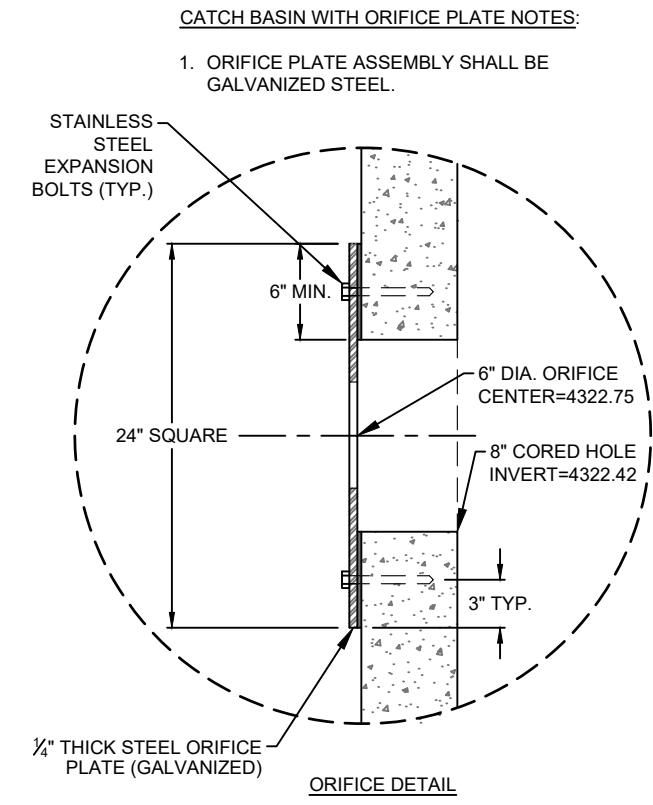
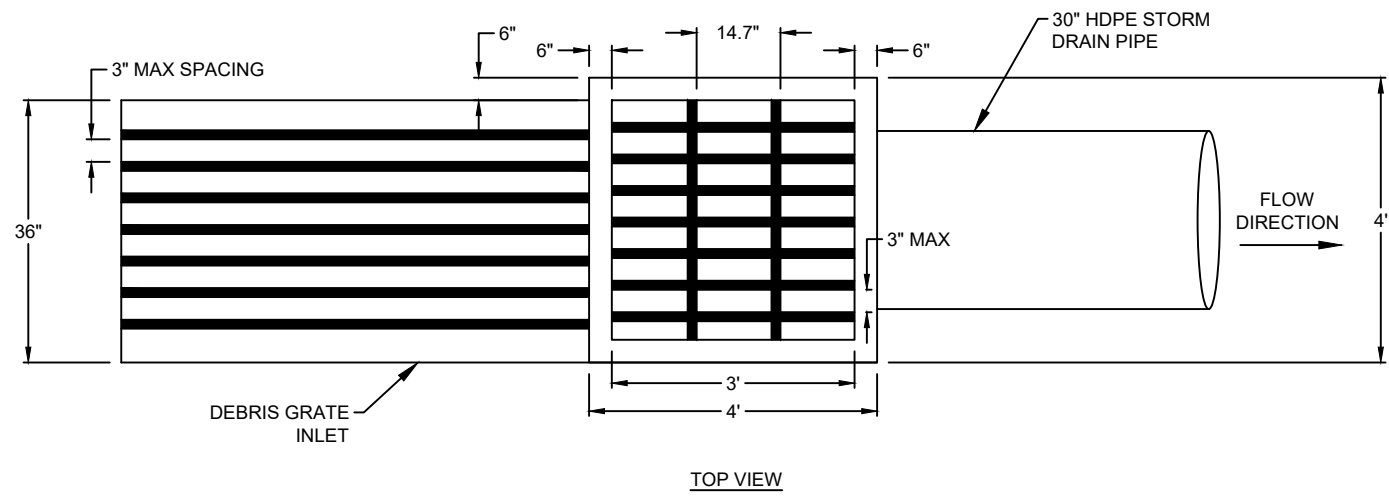


PIPE PROTECTION - RIPRAP										
PIPE I.D.	LOCATION	CULVERT DIA.	TYPE	RIPRAP TYPE	D50	hs	W	L	T	VOLUME (CY)
P 2-1	INLET	30"	HDPE, SMOOTH	LOOSE	8"	0.84	7.5	18	1.25	6.25
P 2-1	OUTLET	30"	HDPE, SMOOTH	LOOSE	8"	0.84	7.5	18	1.25	6.25
P 3-1	INLET	24"	HDPE, SMOOTH	LOOSE	8"	0.42	6	6	1.25	1.75
P 3-1	OUTLET	24"	HDPE, SMOOTH	LOOSE	8"	0.42	6	6	1.25	1.75
P 3-2	INLET	30"	HDPE, SMOOTH	LOOSE	8"	0.92	7.5	15	1.25	5.25
P 3-2	OUTLET	30"	HDPE, SMOOTH	LOOSE	8"	0.92	7.5	15	1.25	5.25
P 3-3	INLET	24"	HDPE, SMOOTH	LOOSE	8"	1.34	6	24	1.25	6.75
P 3-3	OUTLET	24"	HDPE, SMOOTH	LOOSE	8"	1.34	6	24	1.25	6.75
P 4-1	INLET	42"	HDPE, SMOOTH	LOOSE	8"	1.65	10	24	1.25	11.25
P 4-1	OUTLET	42"	HDPE, SMOOTH	LOOSE	8"	1.65	10	24	1.25	11.25
P 4-2	INLET	24"	HDPE, SMOOTH						N/A	
P 4-2	OUTLET	24"	HDPE, SMOOTH						N/A	
P 4-3	INLET	24"	HDPE, SMOOTH						N/A	
P 4-3	OUTLET	24"	HDPE, SMOOTH						N/A	
REFER TO RP3 FOR LOCATION				LOOSE	8"	1.65	30	90	1.25	125
TOTAL										187.5



LOOSE - PLACED RIPRAP DETAIL

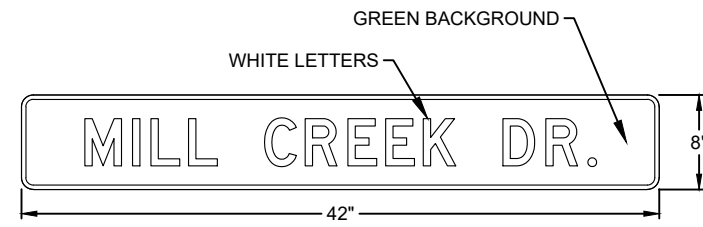
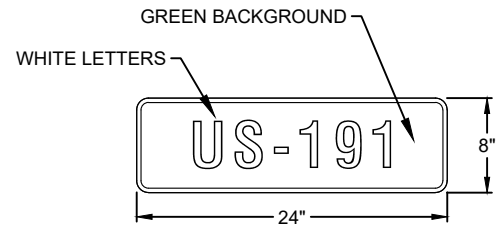
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1 — OUTLET ORIFICE STRUCTURE

PRELIMINARY
 NOT FOR
 CONSTRUCTION

PROJECT DETAILS
 MILL CREEK DRIVE WEST EXTENSION
 MOAB, UTAH



1 SIGN DETAILS

DETENTION BASIN GRADING POINTS (BOTTOM w/ 2.:1 CUT SLOPES)

No.	Station	Offset	Elevation	No.	Station	Offset	Elevation
100	3+13.70	108.88	4321.50	119	3+17.28	159.31	4321.96
101	3+15.42	119.12	4321.50	120	3+11.95	155.24	4321.93
102	3+19.96	128.47	4321.50	121	3+06.73	150.35	4321.84
103	3+24.57	133.53	4321.89	122	3+03.38	146.59	4321.77
104	3+29.39	136.81	4322.00	123	3+00.09	142.27	4321.50
105	3+36.07	140.37	4322.36	124	2+93.72	132.58	4321.52
106	3+42.89	143.64	4322.50	125	2+87.37	121.68	4321.52
107	3+51.28	146.00	4323.00	126	2+81.86	110.90	4321.51
108	3+58.77	147.18	4323.50	127	2+76.95	99.84	4321.50
109	3+66.43	148.20	4324.03	128	2+76.02	92.58	4321.51
110	3+70.57	151.90	4324.02	129	2+78.41	86.47	4321.51
111	3+72.60	157.84	4324.02	130	2+83.29	82.14	4321.50
112	3+71.02	164.34	4324.03	131	2+90.71	80.35	4321.51
113	3+68.18	167.57	4324.03	132	2+98.07	82.40	4321.50
114	3+63.07	169.54	4323.95	133	3+03.94	86.82	4321.51
115	3+55.08	169.31	4323.50	134	3+08.94	92.97	4321.52
116	3+47.17	168.76	4323.00	135	3+12.26	100.20	4321.52
117	3+36.25	167.70	4322.50	136	3+13.70	108.88	4321.50
118	3+24.86	163.84	4322.00				

2 DETENTION BASIN GRADING TABLE

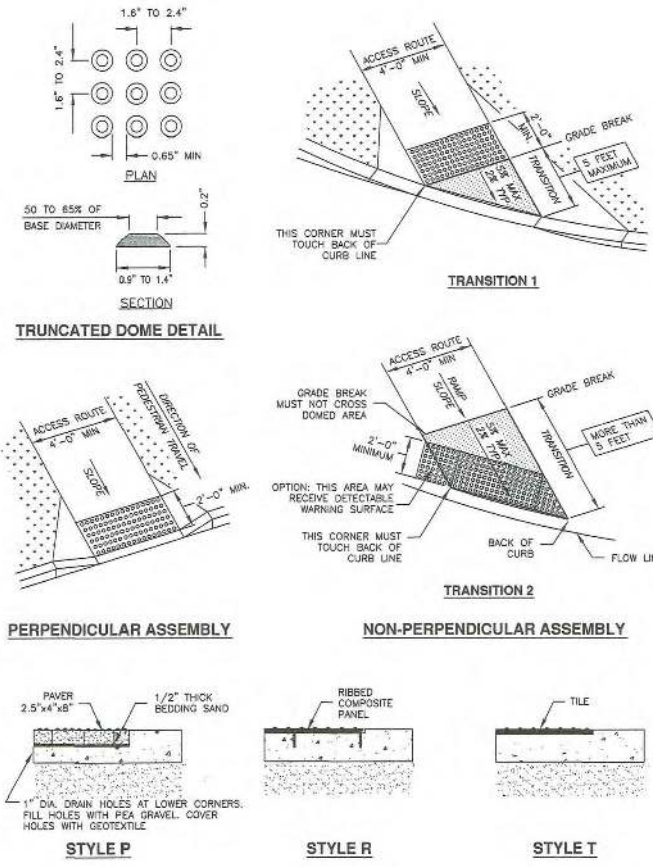
PRELIMINARY
 NOT FOR
 CONSTRUCTION

PROJECT DETAILS
 MILL CREEK DRIVE WEST EXTENSION
 MOAB, UTAH

PROJ.#: F-18127
 DRAWN BY: CJE
 DESIGN BY: JHV
 CHECKED BY: CCH
 SCALE OF SHEET:
 HOR SCALE: N/A
 VER SCALE: N/A

SHEET PD5

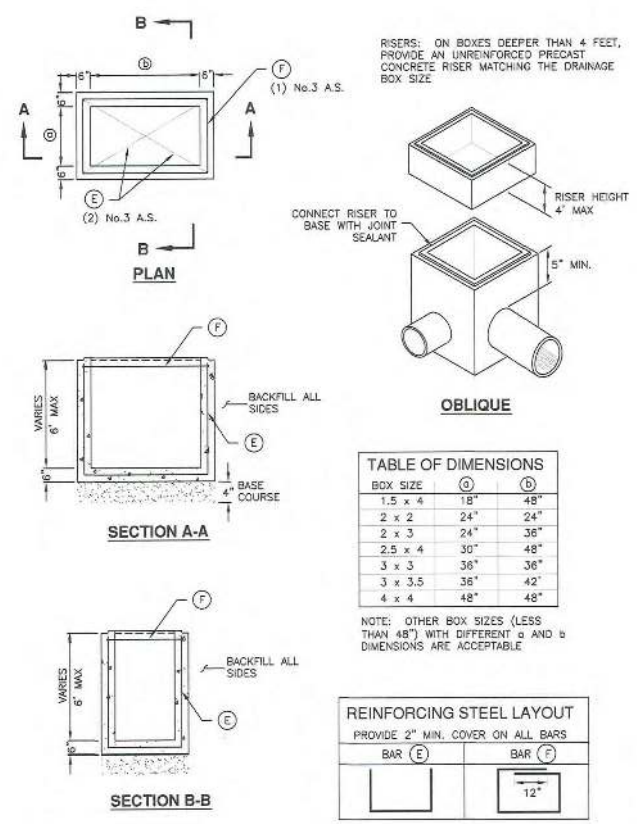
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APWA Utah Chapter

Detectable warning surface

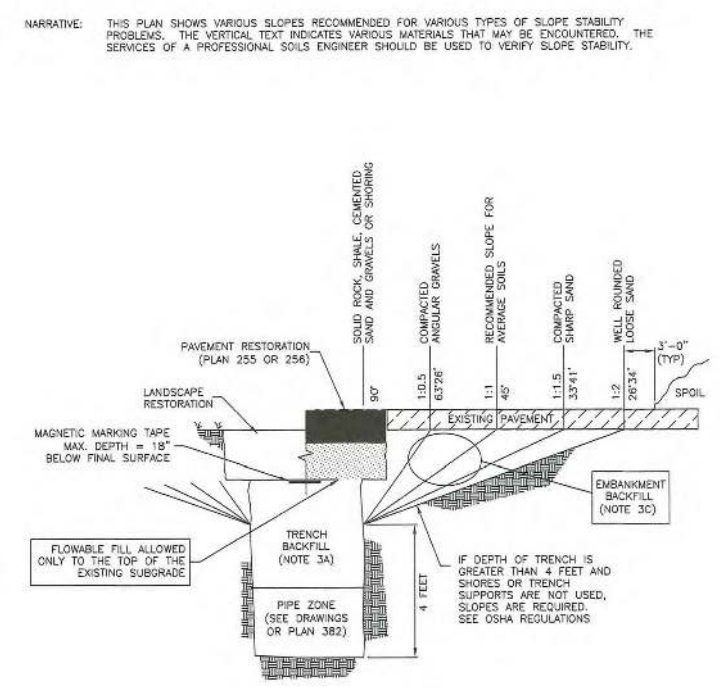
Plan **238**
July 2011



APWA Utah Chapter

Precast box

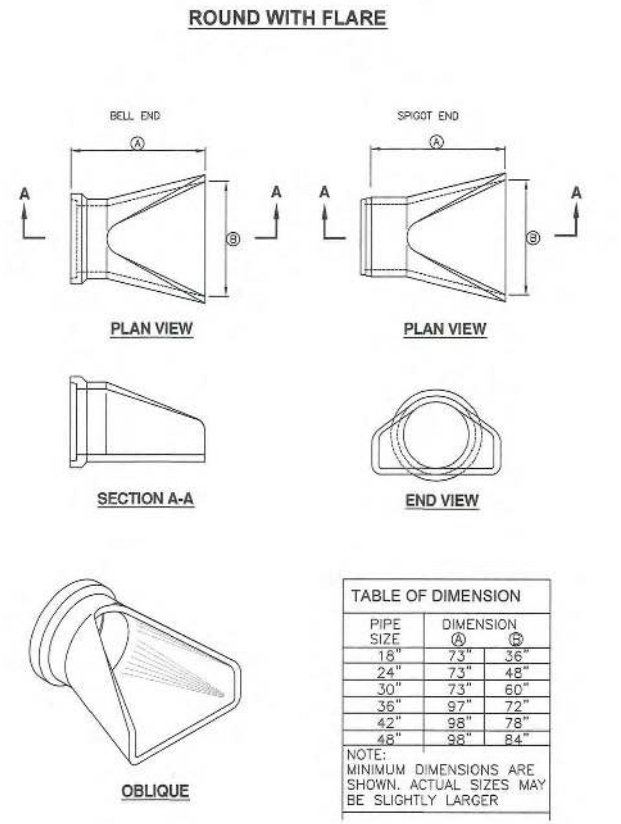
Plan **332**
June 2010



APWA Utah Chapter

Trench backfill

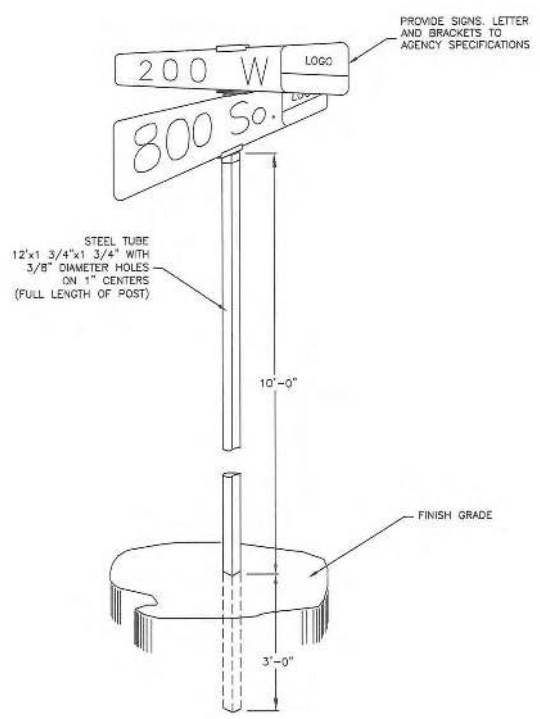
Plan **381**
July 2016



APWA Utah Chapter

Pipe outfall

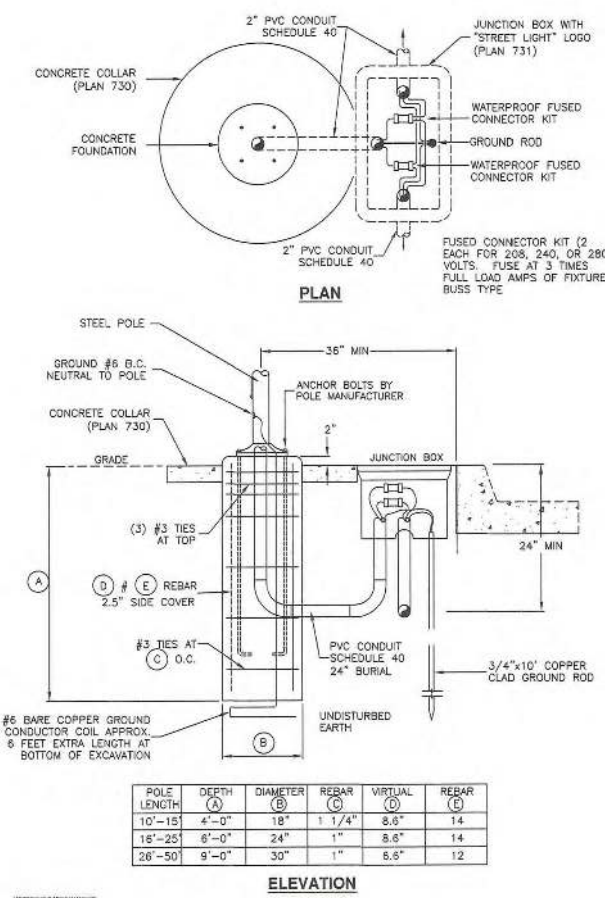
Plan **323.1**
November 2010



APWA Utah Chapter

Street name signpost

Plan **292**
April 1997

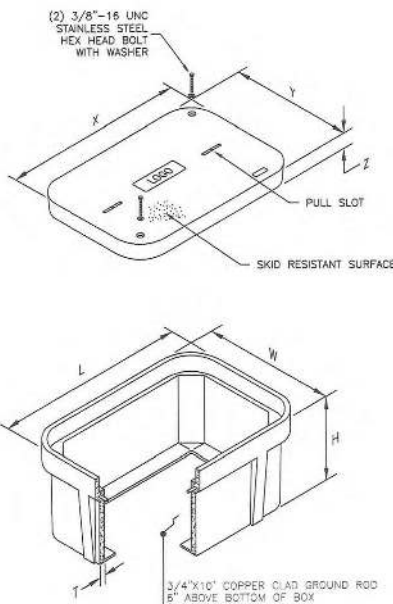


APWA Utah Chapter

Concrete base for street light pole

Plan **743**
January 2011

P:\CT\016\02\05\04\PM\PATH\UTAH\PROJECTS\ACTIVE\2018\PKY18127\00 - MOAB MILL CREEK DRIVE\700 - CAD\SHSHEET_FILES\18127-STANDARD DETAIL.DWG



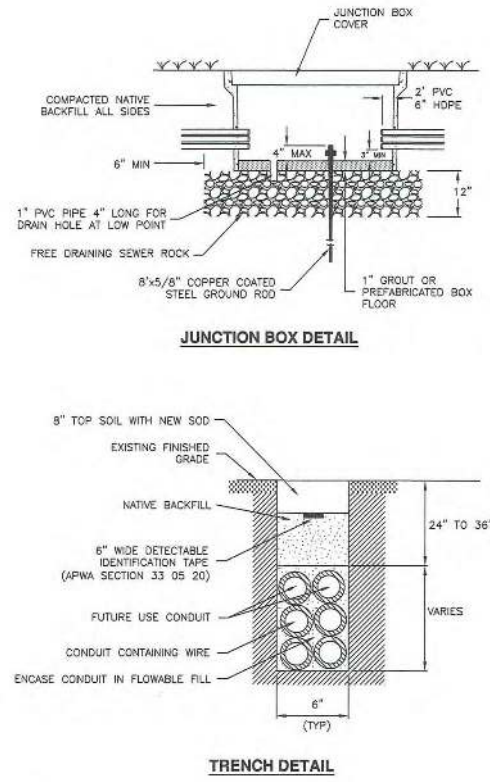
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TYPE	L	W	H	T	X	Y	Z
I	20 1/4	13 3/8	12	1/2	18 1/8	11 1/4	1 3/4
II	32 1/4	19 1/4	18	1 1/4	30 1/2	17 1/2	2
III	37 5/8	26	24	2	36 5/8	24	3
D	49 5/8	32 1/8	24	2	47 5/8	30 1/8	3



Junction box

Plan 731
December 2011

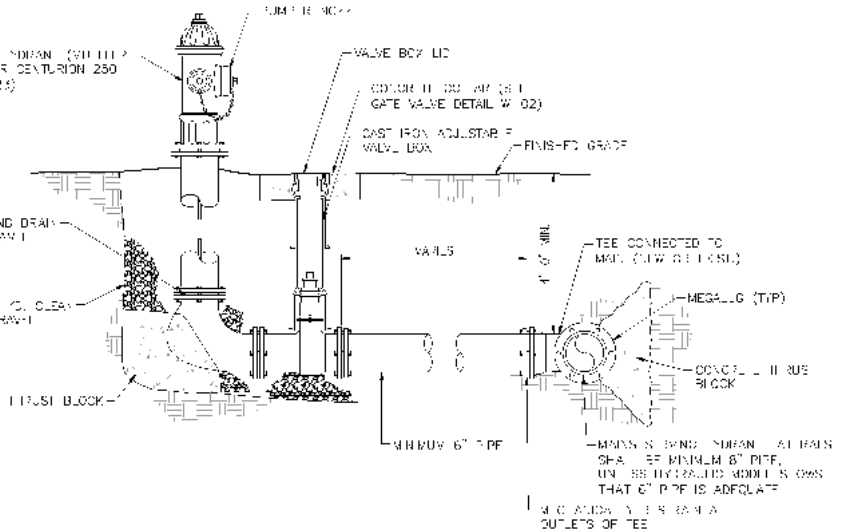
PARK STRIP



Trench for buried electrical conduit

Plan 732.1
September 2011

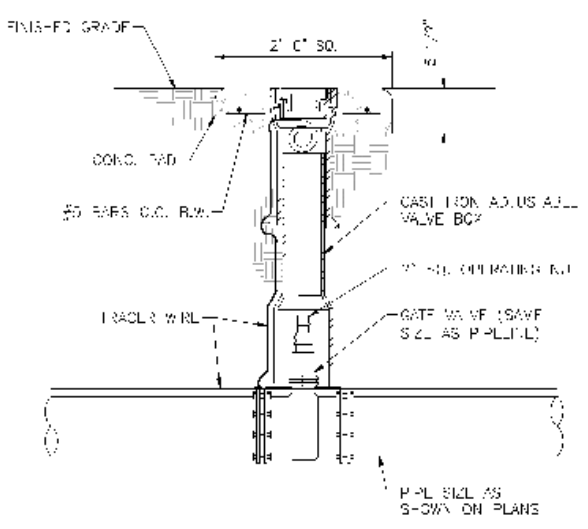
GWSSA:
W-01



1. FIRE HYDRANT BROW-BARRY PLACES SHALL BE NO GREATER THAN 5ft ABOVE FINISHED GRADE OR 1ft BELOW FINISHED GRADE.
2. FIRE HYDRANT THROTTLE VALVES AND ALL HYDRANT SHALL CONFORM TO ANSI A13.1 AS APPLICABLE AND SHALL BE MINIMUM 6\"/>

DETAIL - FIRE HYDRANT
N.T.S.

GWSSA:
W-02



- NOTES:
1. ALL VALVES SHALL BE RESTRAINED ACCORDING TO DETAILS W-06 AND W-07 AND SHALL BE INSTALLED AS A CLASS 150 JOINT JOINT ONLY.
 2. WELD JOINTS, FITTINGS, VALVES, AND PIPE Hangers SHALL CONFORM TO ANSI/ASME STANDARD B1 AND APPLICABLE SCHEDULES OF ANSI STANDARD CODE-A2-4-06 THROUGH CODE 65 AND CODE 67 THROUGH CODE 67, BOLTS OR OTHER CONNECTION RESTRAINT SHALL BE PROVIDED PER DETAIL W-06 AND W-07.
 3. ON VALVES WITH 4\"/>

DETAIL - TYPICAL GATE VALVE
N.T.S.

GWSSA:
W-07

MECHANICAL
THRUST RESTRAINING SYSTEM DETAILS

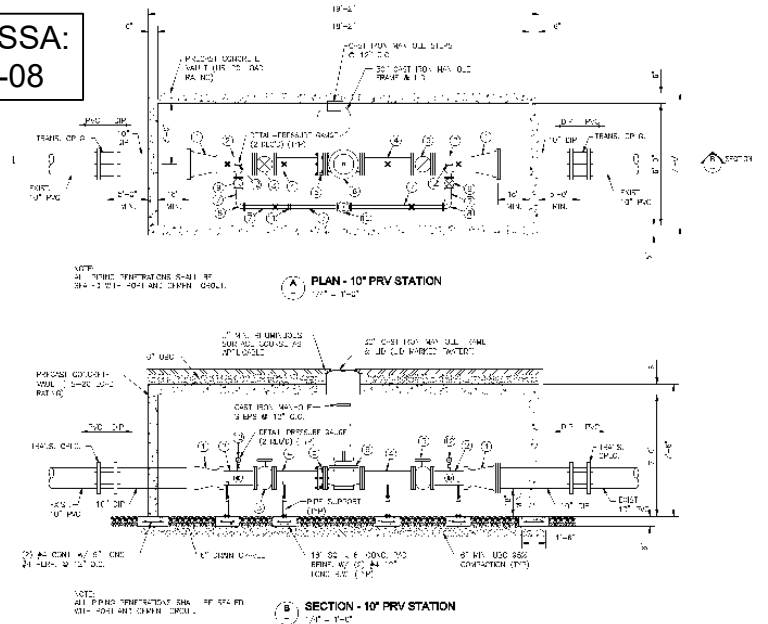
PIPE SIZE	PIPE SIZE							
	4	6	8	12	16	20	24	30
1.25	4	5	6	8	10	12	14	16
2.25	5	6	8	10	12	14	16	18
3.25	6	8	10	12	14	16	18	20
4.25	8	10	12	14	16	18	20	24
5.25	10	12	14	16	18	20	24	30

PIPE SIZE	PIPE SIZE							
	4	6	8	12	16	20	24	30
1.25	4	5	6	8	10	12	14	16
2.25	5	6	8	10	12	14	16	18
3.25	6	8	10	12	14	16	18	20
4.25	8	10	12	14	16	18	20	24
5.25	10	12	14	16	18	20	24	30

PIPE SIZE	PIPE SIZE							
	4	6	8	12	16	20	24	30
1.25	4	5	6	8	10	12	14	16
2.25	5	6	8	10	12	14	16	18
3.25	6	8	10	12	14	16	18	20
4.25	8	10	12	14	16	18	20	24
5.25	10	12	14	16	18	20	24	30

PIPE SIZE	PIPE SIZE							
	4	6	8	12	16	20	24	30
1.25	4	5	6	8	10	12	14	16
2.25	5	6	8	10	12	14	16	18
3.25	6	8	10	12	14	16	18	20
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5.25	10	12	14	16	18	20	24	30

GWSSA:
W-08

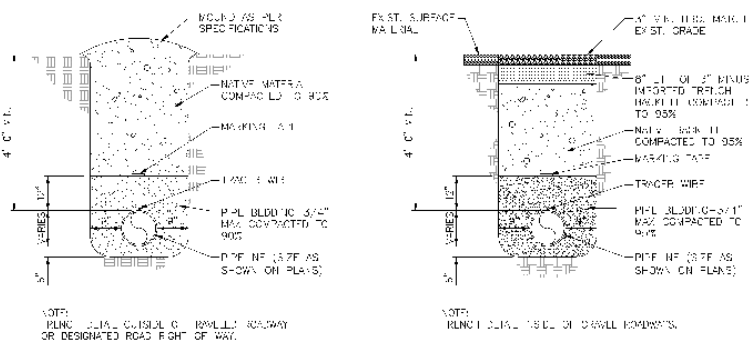


NUMBER	DESCRIPTION	EQUIPMENT	SCHEDULE	REMARKS
1	12\"/>			



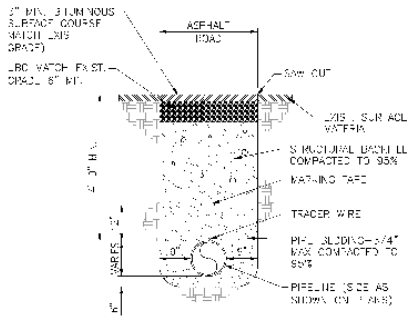
FOR REFERENCE ONLY
REFER TO SPECIFIED STANDARDS FOR FURTHER DETAIL AND INFORMATION

STANDARD DETAILS
MILL CREEK DRIVE WEST EXTENSION
MOAB, UTAH

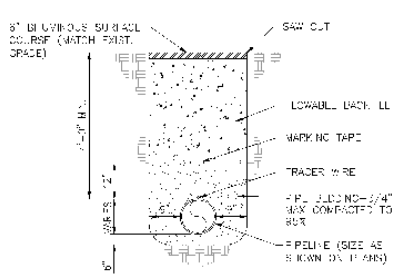


DETAIL - TYPICAL TRENCH
N.T.S.

DETAIL - UNPAVED ROADWAY TRENCH
N.T.S.



DETAIL - PAVED ROADWAY TRENCH
N.T.S.

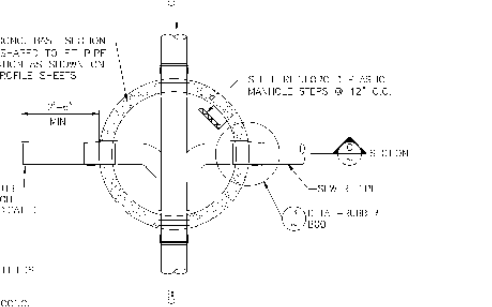


DETAIL - TRENCH W/ FLOWABLE BACKFILL
N.T.S.

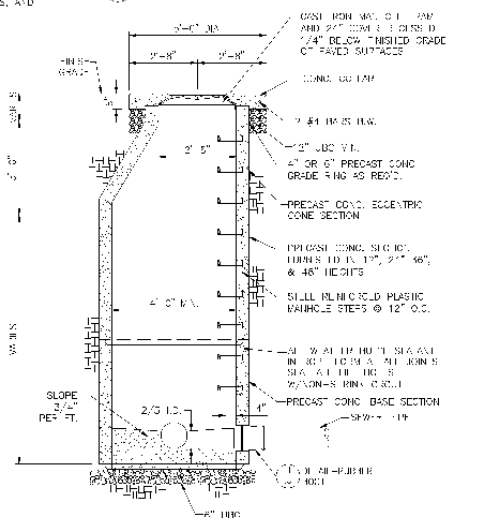
GWSSA:
R-01

GWSSA:
R-02

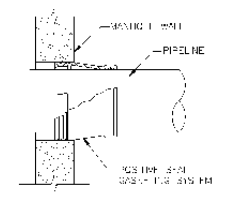
GWSSA:
S-01



PLAN - MANHOLE
TYP. N.T.S.



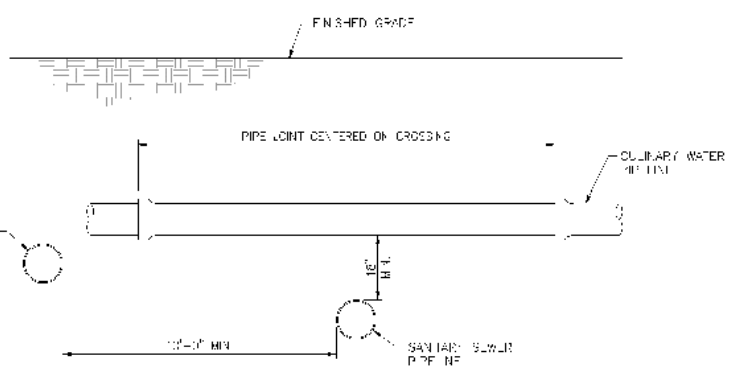
SECTION - MANHOLE
TYP. N.T.S.



PLAN - RUBBER BOOT
TYP. N.T.S.

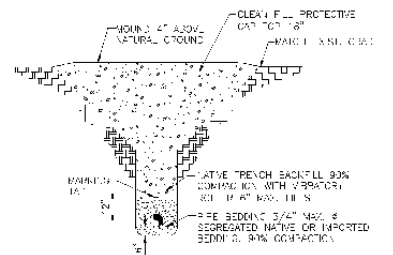
- NOTES:
1. MANHOLE RINGS SHALL BE PRECAST CONCRETE.
 2. MANHOLE RINGS SHALL BE 12" O.C. MANHOLE STEPS SHALL BE 12" O.C. MANHOLE STEPS SHALL BE 12" O.C.
 3. ALL MANHOLE RINGS SHALL BE 12" O.C. MANHOLE STEPS SHALL BE 12" O.C.
 4. CONCRETE COLLAR REQUIRED IN ASPHALT FINISH ROADS. THEY ARE NOT REQUIRED ON GRAVEL FINISH ROADS.
 5. PATCH ALL MANHOLE SECTION JOINTS, OPENINGS AROUND PIPES, AND OTHER HOLES WITH NON-SHRINKING GROUT.

GWSSA:
M-01

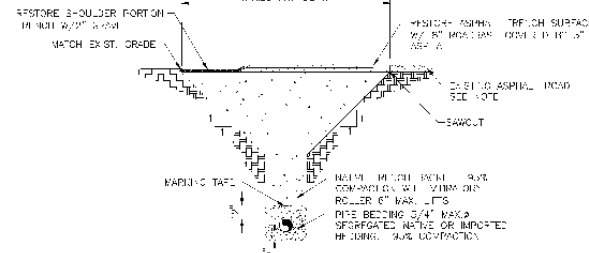


DETAIL - WATER AND SEWER SEPARATION
I.T.S.

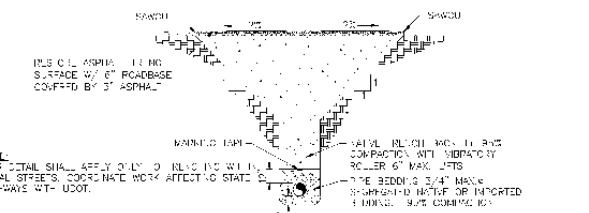
- NOTES:
1. ALL WATER SEPARATION SHALL BE CONCRETE OR POLYETHYLENE GLYCOL (PE) WITH GASKETS AND DIMENSION OF DRINKING WATER APPROVAL ARE REQUIRED.
 2. ALL WATER SEPARATION SHALL BE 12" O.C. MANHOLE STEPS SHALL BE 12" O.C.
 3. IN CASE A NEW SEWER FORCE MAIN CROSSES UNDER AN EXISTING WATER MAIN, ALL WATER MAIN SHALL BE 12" O.C. MANHOLE STEPS SHALL BE 12" O.C.
 4. WHEN A NEW WATER MAIN CROSSES OVER AN EXISTING SEWER FORCE MAIN, THE WATER MAIN SHALL BE 12" O.C. MANHOLE STEPS SHALL BE 12" O.C.
 5. ALL WATER MAIN SHALL BE MAINTAINED AT LEAST 24" BELOW THE BASE OF THE EXCAVATION DURING CONSTRUCTION.



DETAIL - TRENCH CONDITION 'A'
TYP. TRENCH OUTSIDE OF ROADWAYS

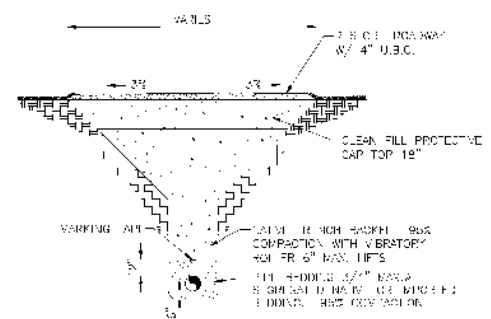


DETAIL - TRENCH CONDITION 'B'
TYP. TRENCH WITHIN SHOULDER

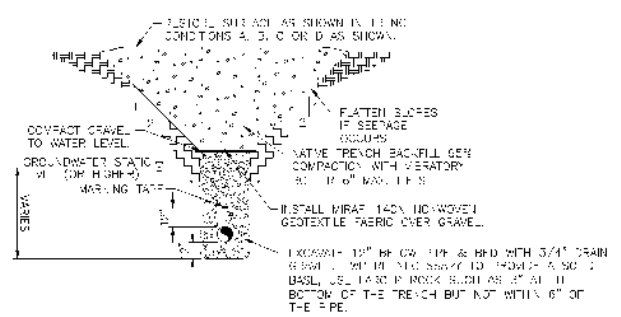


DETAIL - TRENCH CONDITION 'C'
TYP. TRENCH WITHIN ASPHALT ROADWAY - LOCAL STREETS

GWSSA:
R-03



DETAIL - TRENCH CONDITION 'D'
TYP. TRENCH WITHIN GRAVEL ROADWAY



DETAIL - TRENCH CONDITION 'E'
TYP. WET TRENCHING

- NOTES:
1. CONSTRUCTION AS SHOWN IS TO BE USED WITH CLEAN FILL TO BE MAINTAINED TO ORIGINAL GRADE WITH 12" MIN. ELEVATION OR AS DIRECTED BY THE LOCAL AUTHORITY.
 2. CLAY CUT OFF WALLS REQUIRED IN WET TRENCHING OR AS DIRECTED BY THE LOCAL AUTHORITY.
 3. DEWATERING EFFORTS REQUIRED.
 4. BACKFILL UP TO WATER LEVEL DURING CONSTRUCTION BEFORE RESUMING THE EXCAVATION.
 5. LOWER PART OF EXCAVATIONS SHOULD BE FROM OUTSIDE THE EXCAVATED AREA TO MAINTAIN STABILITY.
 6. ALL EXCAVATIONS SHALL BE MAINTAINED AT LEAST 24" BELOW THE BASE OF THE EXCAVATION DURING CONSTRUCTION.

FOR REFERENCE
ONLY

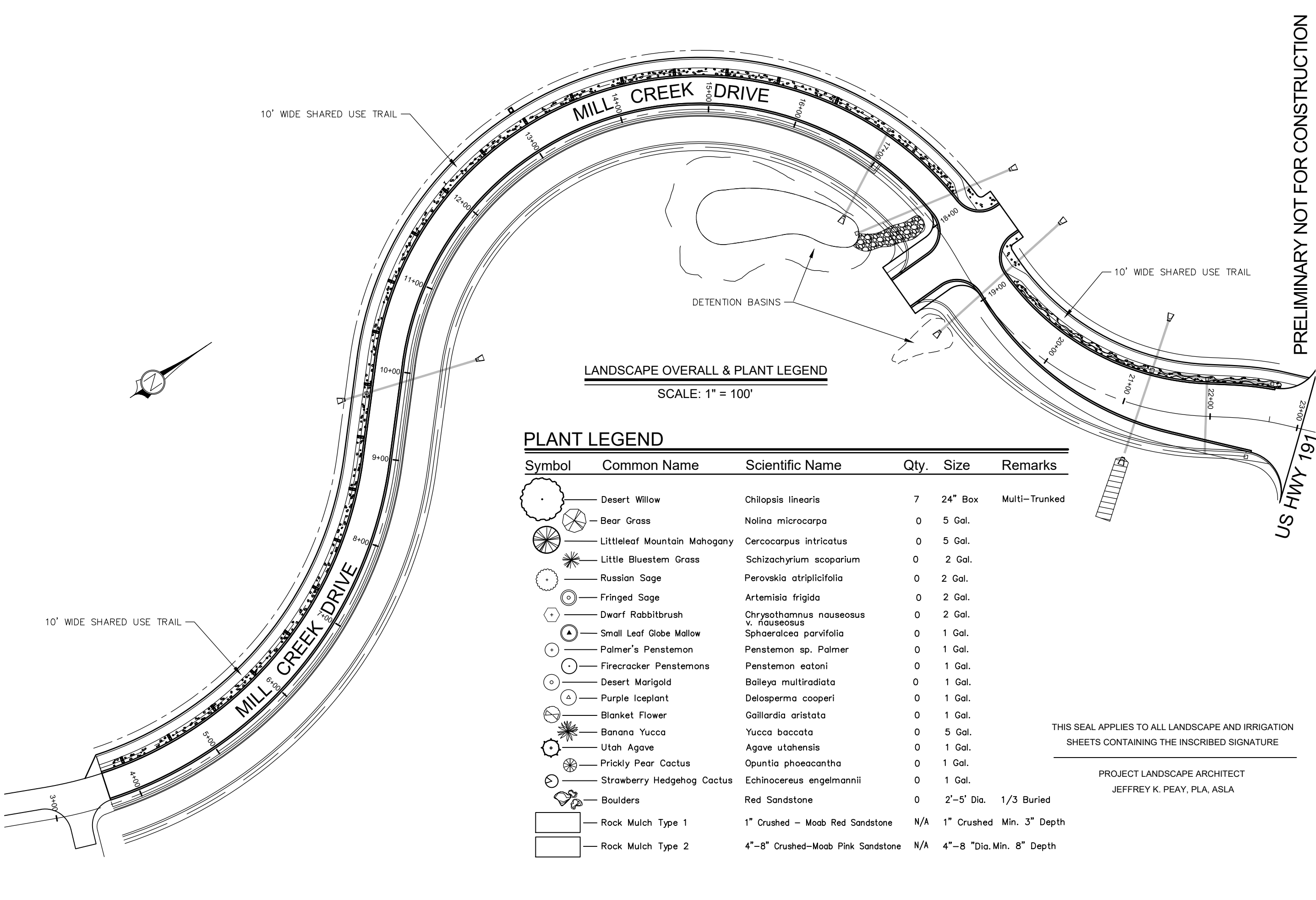
REFER TO SPECIFIED STANDARDS FOR FURTHER DETAIL AND INFORMATION

STANDARD DETAILS

MILL CREEK DRIVE WEST EXTENSION
MOAB, UTAH

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PLOT: 2016.07.04 12:56 PM
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LANDSCAPE OVERALL & PLANT LEGEND
 SCALE: 1" = 100'

PLANT LEGEND

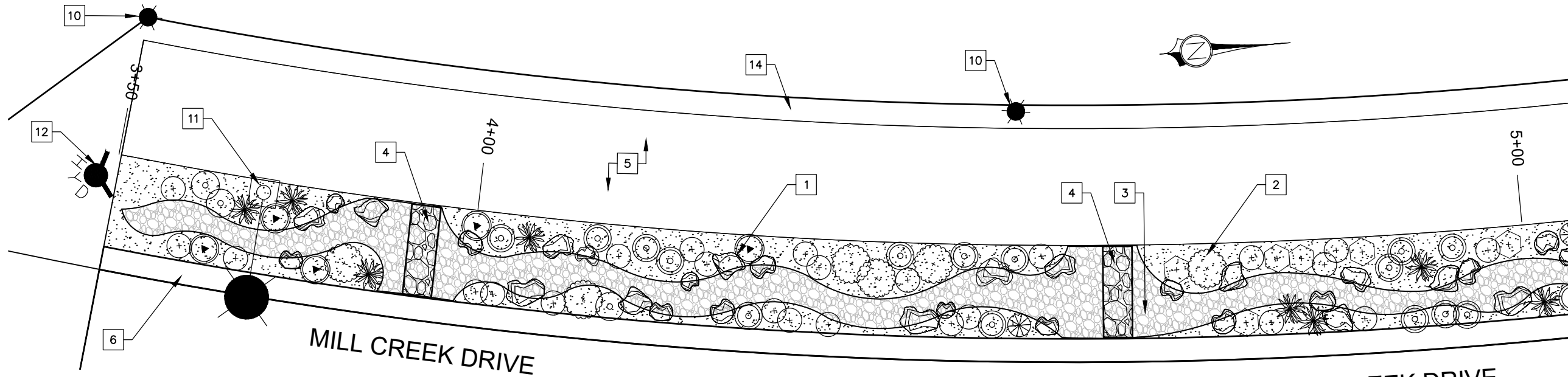
Symbol	Common Name	Scientific Name	Qty.	Size	Remarks
	Desert Willow	Chilopsis linearis	7	24" Box	Multi-Trunked
	Bear Grass	Nolina microcarpa	0	5 Gal.	
	Littleleaf Mountain Mahogany	Cercocarpus intricatus	0	5 Gal.	
	Little Bluestem Grass	Schizachyrium scoparium	0	2 Gal.	
	Russian Sage	Perovskia atriplicifolia	0	2 Gal.	
	Fringed Sage	Artemisia frigida	0	2 Gal.	
	Dwarf Rabbitbrush	Chrysothamnus nauseosus v. nauseosus	0	2 Gal.	
	Small Leaf Globe Mallow	Sphaeralcea parvifolia	0	1 Gal.	
	Palmer's Penstemon	Penstemon sp. Palmer	0	1 Gal.	
	Firecracker Penstemons	Penstemon eatoni	0	1 Gal.	
	Desert Marigold	Baileya multiradiata	0	1 Gal.	
	Purple Iceplant	Delosperma cooperi	0	1 Gal.	
	Blanket Flower	Gaillardia aristata	0	1 Gal.	
	Banana Yucca	Yucca baccata	0	5 Gal.	
	Utah Agave	Agave utahensis	0	1 Gal.	
	Prickly Pear Cactus	Opuntia phoeacantha	0	1 Gal.	
	Strawberry Hedgehog Cactus	Echinocereus engelmannii	0	1 Gal.	
	Boulders	Red Sandstone	0	2'-5' Dia. 1/3 Buried	
	Rock Mulch Type 1	1" Crushed - Moab Red Sandstone	N/A	1" Crushed Min. 3" Depth	
	Rock Mulch Type 2	4"-8" Crushed-Moab Pink Sandstone	N/A	4"-8" Dia. Min. 8" Depth	

THIS SEAL APPLIES TO ALL LANDSCAPE AND IRRIGATION SHEETS CONTAINING THE INSCRIBED SIGNATURE

PROJECT LANDSCAPE ARCHITECT
 JEFFREY K. PEAY, PLA, ASLA

PRELIMINARY NOT FOR CONSTRUCTION

PLT: 2016.07.04 12:56 PM
 PATH: E:\EDS\PROJECT FILES\MOAB\DWG FILES\18127_LSP_FOR REVIEW.DWG



LANDSCAPE PLAN - STA 3+50 - 5+00

SCALE: 1" = 10'-0"

MILL CREEK DRIVE

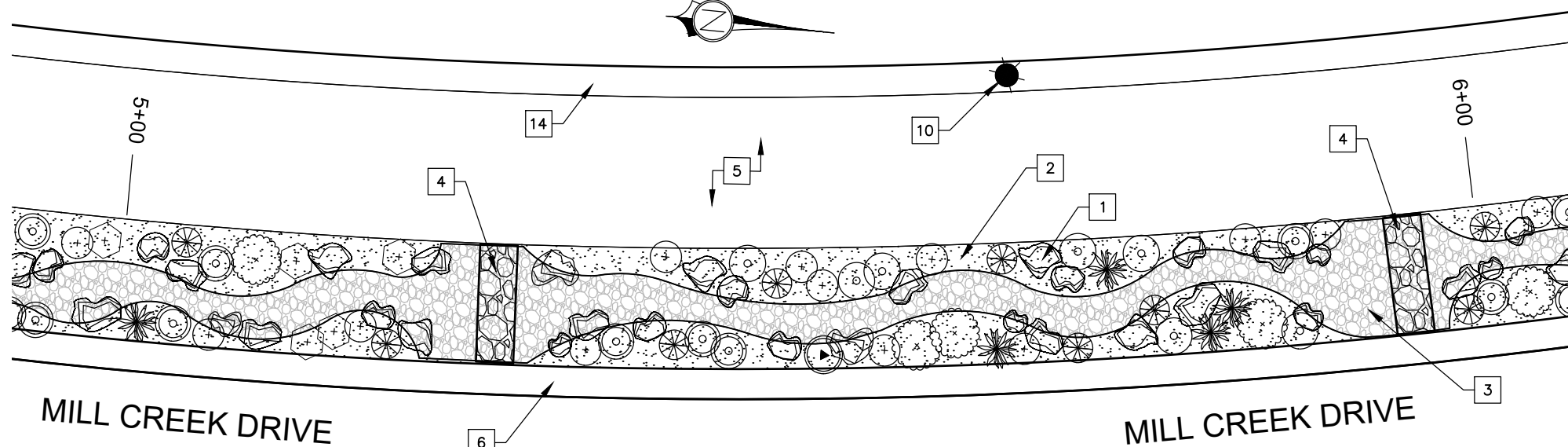
PLANT LEGEND

Symbol	Common Name	Scientific Name
	Desert Willow	Chilopsis linearis
	Bear Grass	Nolina microcarpa
	Littleleaf Mountain Mahogany	Cercocarpus intricatus
	Little Bluestem Grass	Schizachyrium scoparium
	Russian Sage	Perovskia atriplicifolia
	Fringed Sage	Artemisia frigida
	Dwarf Rabbitbrush	Chrysothamnus nauseosus v. nauseosus
	Small Leaf Globe Mallow	Sphaeralcea parvifolia
	Palmer's Penstemon	Penstemon palmeri
	Firecracker Penstemons	Penstemon eatoni

Symbol	Common Name	Scientific Name
	Desert Marigold	Baileya multiradiata
	Purple Iceplant	Delosperma cooperi
	Blanket Flower	Gaillardia aristata
	Banana Yucca	Yucca baccata
	Utah Agave	Agave utahensis
	Prickly Pear Cactus	Opuntia phoeacantha
	Strawberry Hedgehog Cactus	Echinocereus engelmannii
	Boulders	Red Sandstone
	Rock Mulch Type 1	1" Crushed - Moab Red Sandstone
	Rock Mulch Type 2	4"-8" Crushed-Moab Pink Sandstone

LANDSCAPE KEYNOTES:

- 1 RED SANDSTONE BOULDERS
- 2 ROCK MULCH - TYPE 1
- 3 ROCK MULCH - TYPE 2
PLANT-MIX BITUMINOUS PAVING
- 4 LANDSCAPE CHECK DAM
- SEE SHEET XXX FOR DETAILS
- 5 SHARED USE CONCRETE TRAIL
- SEE SHEET TS1 FOR DETAILS
- 6 24" FLAT CONCRETE CURB
- SEE SHEET XXX FOR DETAILS
- 7 STORM DRAIN INLET BOX
- SEE APWA STD DETAIL 238
- 8 12" PERFORATED STORM DRAIN PIPE
- SEE SHEET XXX FOR DETAIL
- 9 PERFORATED STORM DRAIN PIPE
- 10 TRAIL LIGHT BOLLARD & FIXTURE
- 11 STREET LIGHT POLE & FIXTURE
- 12 FIRE HYDRANT ASSEMBLY
- 13 DETENTION BASIN
- 14 GRAVEL SHOULDER
- 15 XXX
-SEE APWA STD DETAIL 332
- 16 XXX
- SEE APWA STD DETAIL 332
- 17 XXX
- SEE APWA STD DETAIL 332
- 18 LOOSE - PLACED RIPRAP



LANDSCAPE PLAN - STA 5+00 - 6+00

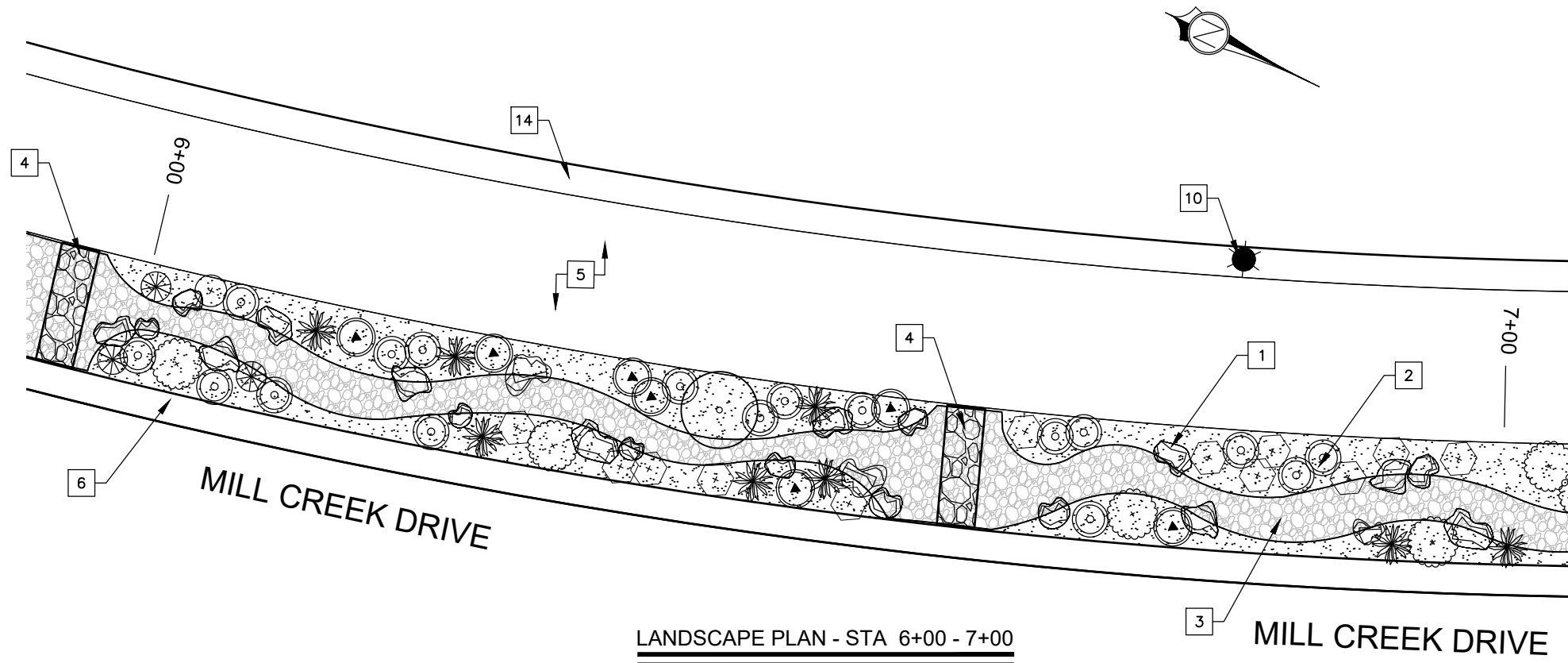
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MILL CREEK DRIVE

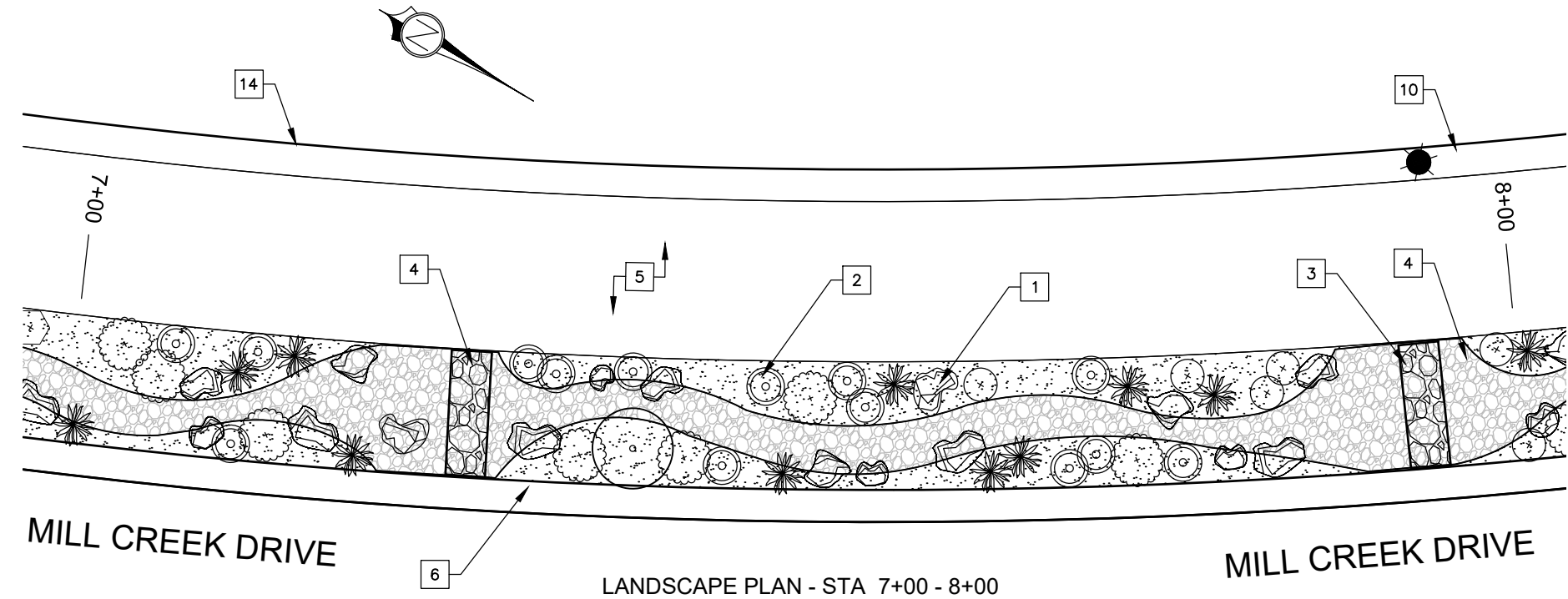
MILL CREEK DRIVE

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LANDSCAPE PLAN - STA 6+00 - 7+00
 SCALE: 1" = 10'-0"



LANDSCAPE PLAN - STA 7+00 - 8+00
 SCALE: 1" = 10'-0"

LANDSCAPE KEYNOTES:

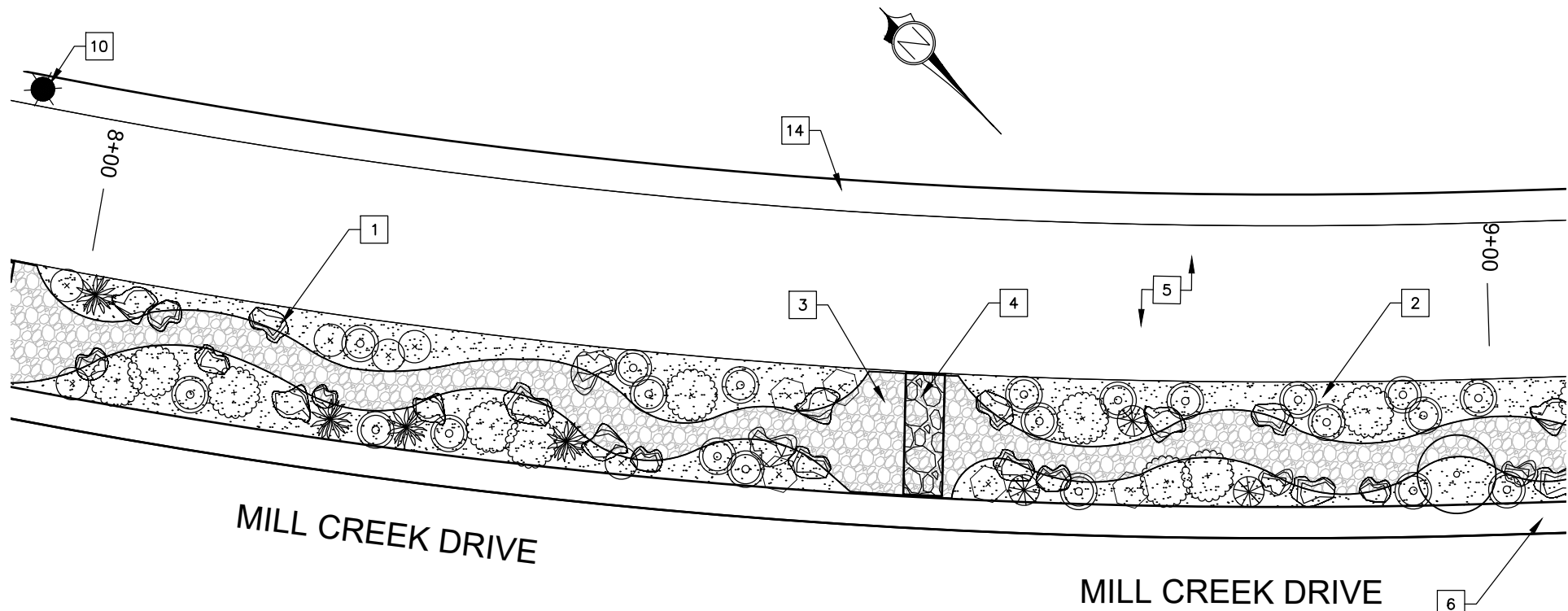
- 1 RED SANDSTONE BOULDERS
- 2 ROCK MULCH - TYPE 1
- 3 ROCK MULCH - TYPE 2
- 4 LANDSCAPE CHECK DAM
- SEE SHEET XXX FOR DETAILS
- 5 SHARED USE CONCRETE TRAIL
- SEE SHEET TS1 FOR DETAILS
- 6 24" FLAT CONCRETE CURB
- SEE SHEET XXX FOR DETAILS
- 7 STORM DRAIN INLET BOX
- SEE APWA STD DETAIL 238
- 8 12" PERFORATED STORM DRAIN PIPE
- SEE SHEET XXX FOR DETAIL
- 9 PERFORATED STORM DRAIN PIPE
- 10 TRAIL LIGHT BOLLARD & FIXTURE
- 11 STREET LIGHT POLE & FIXTURE
- 12 FIRE HYDRANT ASSEMBLY
- 13 DETENTION BASIN
- 14 GRAVEL SHOULDER

PLANT LEGEND

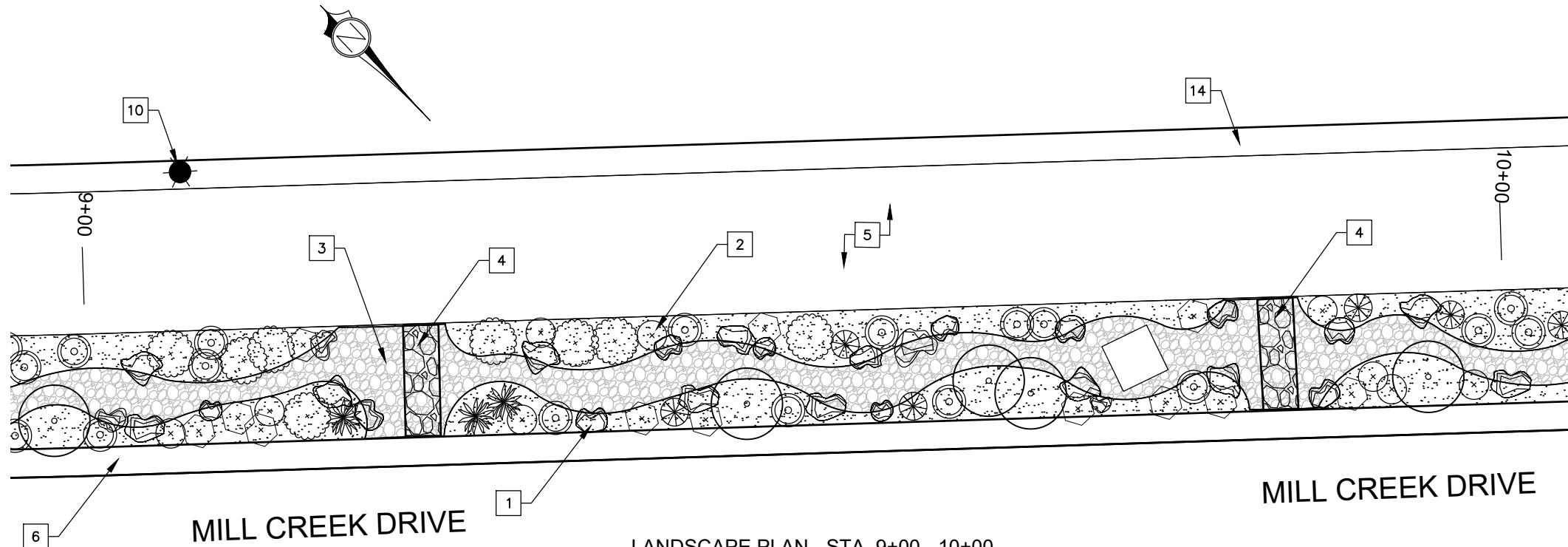
Symbol	Common Name	Scientific Name
	Desert Willow	Chilopsis linearis
	Bear Grass	Nolina microcarpa
	Littleleaf Mountain Mahogany	Cercocarpus intricatus
	Little Bluestem Grass	Schizachyrium scoparium
	Russian Sage	Perovskia atriplicifolia
	Fringed Sage	Artemisia frigida
	Dwarf Rabbitbrush	Chrysothamnus nauseosus v. nauseosus
	Small Leaf Globe Mallow	Sphaeralcea parvifolia
	Palmer's Penstemon	Penstemon sp. Palmer
	Firecracker Penstemons	Penstemon eatoni
	Desert Marigold	Baileya multiradiata
	Purple Iceplant	Delosperma cooperi
	Blanket Flower	Gaillardia aristata
	Banana Yucca	Yucca baccata
	Utah Agave	Agave utahensis
	Prickly Pear Cactus	Opuntia phoeacantha
	Strawberry Hedgehog Cactus	Echinocereus engelmannii
	Boulders	Red Sandstone
	Rock Mulch Type 1	1" Crushed - Moab Red Sandstone
	Rock Mulch Type 2	4"-8" Crushed-Moab Pink Sandstone

PRELIMINARY NOT FOR CONSTRUCTION

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LANDSCAPE PLAN - STA 8+00 - 9+00
 SCALE: 1" = 10'-0"



LANDSCAPE PLAN - STA 9+00 - 10+00
 SCALE: 1" = 10'-0"

PLANT LEGEND

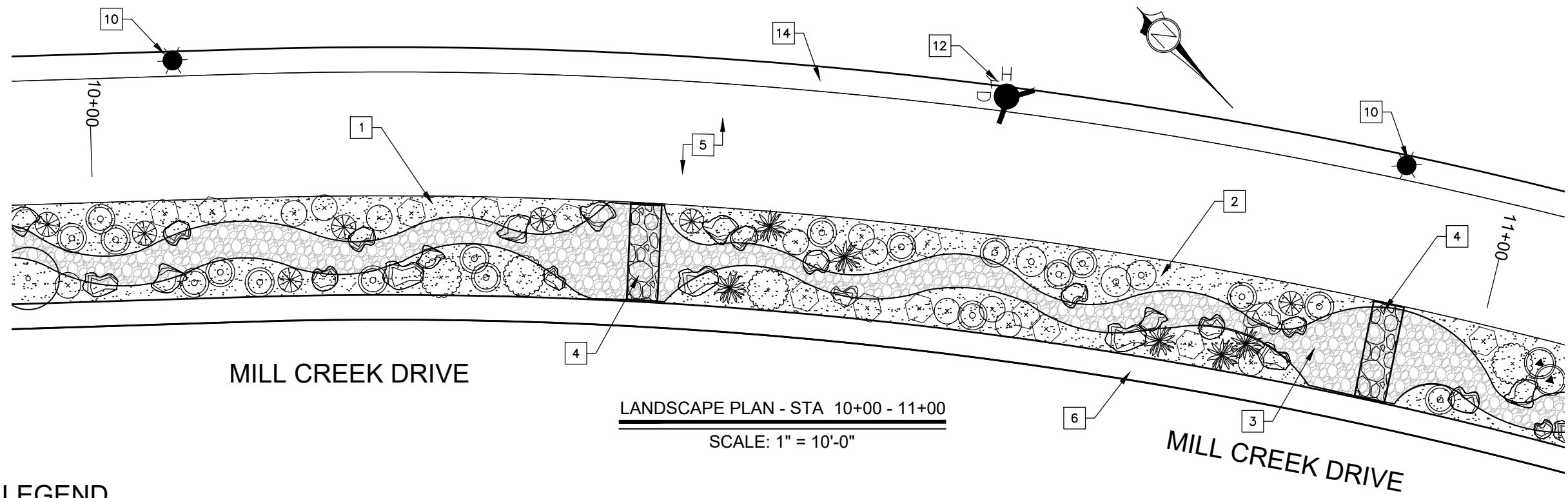
Symbol	Common Name	Scientific Name
	Desert Willow	Chilopsis linearis
	Bear Grass	Nolina microcarpa
	Littleleaf Mountain Mahogany	Cercocarpus intricatus
	Little Bluestem Grass	Schizachyrium scoparium
	Russian Sage	Perovskia atriplicifolia
	Fringed Sage	Artemisia frigida
	Dwarf Rabbitbrush	Chrysothamnus nauseosus v. nauseosus
	Small Leaf Globe Mallow	Sphaeralcea parvifolia
	Palmer's Penstemon	Penstemon sp. Palmer
	Firecracker Penstemons	Penstemon eatoni
	Desert Marigold	Baileya multiradiata
	Purple Iceplant	Delosperma cooperi
	Blanket Flower	Gaillardia aristata
	Banana Yucca	Yucca baccata
	Utah Agave	Agave utahensis
	Prickly Pear Cactus	Opuntia phoeacantha
	Strawberry Hedgehog Cactus	Echinocereus engelmannii
	Boulders	Red Sandstone
	Rock Mulch Type 1	1" Crushed - Moab Red Sandstone
	Rock Mulch Type 2	4"-8" Crushed-Moab Pink Sandstone

LANDSCAPE KEYNOTES:

- 1 RED SANDSTONE BOULDERS
- 2 ROCK MULCH - TYPE 1
- 3 ROCK MULCH - TYPE 2
- 4 LANDSCAPE CHECK DAM
- SEE SHEET XXX FOR DETAILS
- 5 SHARED USE CONCRETE TRAIL
- SEE SHEET TS1 FOR DETAILS
- 6 24" FLAT CONCRETE CURB
- SEE SHEET XXX FOR DETAILS
- 7 STORM DRAIN INLET BOX
- SEE APWA STD DETAIL 238
- 8 12" PERFORATED STORM DRAIN PIPE
- SEE SHEET XXX FOR DETAIL
- 9 PERFORATED STORM DRAIN PIPE
- 10 TRAIL LIGHT BOLLARD & FIXTURE
- 11 STREET LIGHT POLE & FIXTURE
- 12 FIRE HYDRANT ASSEMBLY
- 13 DETENTION BASIN
- 14 GRAVEL SHOULDER

PRELIMINARY NOT FOR CONSTRUCTION

PRELIMINARY NOT FOR CONSTRUCTION



MILL CREEK DRIVE

LANDSCAPE PLAN - STA 10+00 - 11+00

SCALE: 1" = 10'-0"

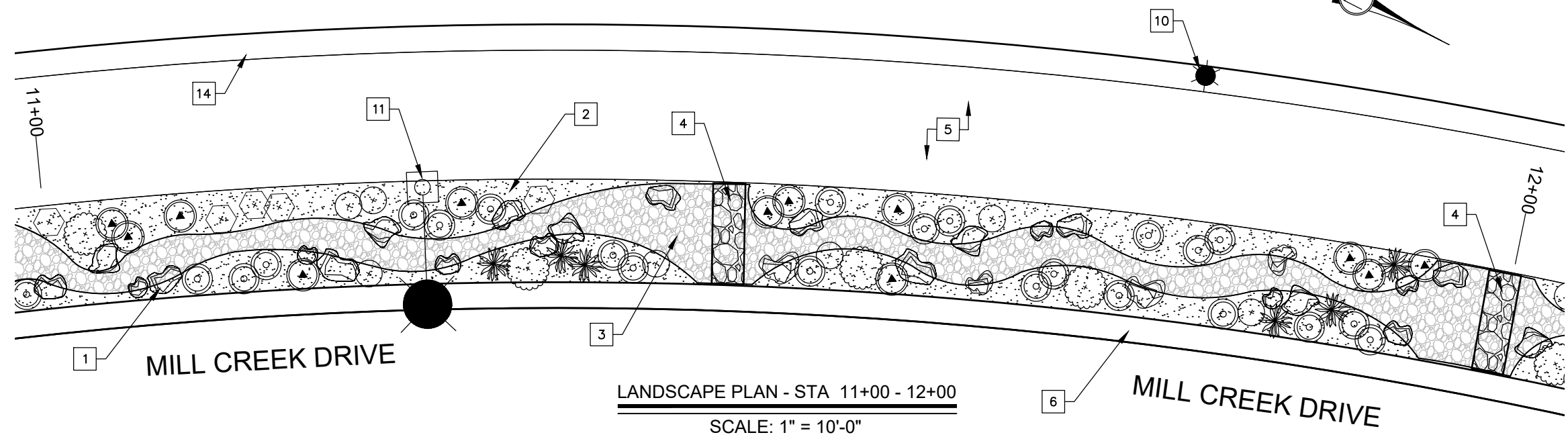
MILL CREEK DRIVE

PLANT LEGEND

Symbol	Common Name	Scientific Name	Symbol	Common Name	Scientific Name
	Desert Willow	Chilopsis linearis		Desert Marigold	Baileya multiradiata
	Bear Grass	Nolina microcarpa		Purple Iceplant	Delosperma cooperi
	Littleleaf Mountain Mahogany	Cercocarpus intricatus		Blanket Flower	Gaillardia aristata
	Little Bluestem Grass	Schizachyrium scoparium		Banana Yucca	Yucca baccata
	Russian Sage	Perovskia atriplicifolia		Utah Agave	Agave utahensis
	Fringed Sage	Artemisia frigida		Prickly Pear Cactus	Opuntia phoeacantha
	Dwarf Rabbitbrush	Chrysothamnus nauseosus v. nauseosus		Strawberry Hedgehog Cactus	Echinocereus engelmannii
	Small Leaf Globe Mallow	Sphaeralcea parvifolia		Boulders	Red Sandstone
	Palmer's Penstemon	Penstemon palmeri		Rock Mulch Type 1	1" Crushed - Moab Red Sandstone
	Firecracker Penstemons	Penstemon eatoni		Rock Mulch Type 2	4"-8" Crushed-Moab Pink Sandstone

LANDSCAPE KEYNOTES:

- 1 RED SANDSTONE BOULDERS
- 2 ROCK MULCH - TYPE 1
- 3 ROCK MULCH - TYPE 2
- 4 LANDSCAPE CHECK DAM - SEE SHEET XXX FOR DETAILS
- 5 SHARED USE CONCRETE TRAIL - SEE SHEET TS1 FOR DETAILS
- 6 24" FLAT CONCRETE CURB - SEE SHEET XXX FOR DETAILS
- 7 STORM DRAIN INLET BOX - SEE APWA STD DETAIL 238
- 8 12" PERFORATED STORM DRAIN PIPE - SEE SHEET XXX FOR DETAIL
- 9 PERFORATED STORM DRAIN PIPE
- 10 TRAIL LIGHT BOLLARD & FIXTURE
- 11 STREET LIGHT POLE & FIXTURE
- 12 FIRE HYDRANT ASSEMBLY
- 13 DETENTION BASIN
- 14 GRAVEL SHOULDER



MILL CREEK DRIVE

LANDSCAPE PLAN - STA 11+00 - 12+00

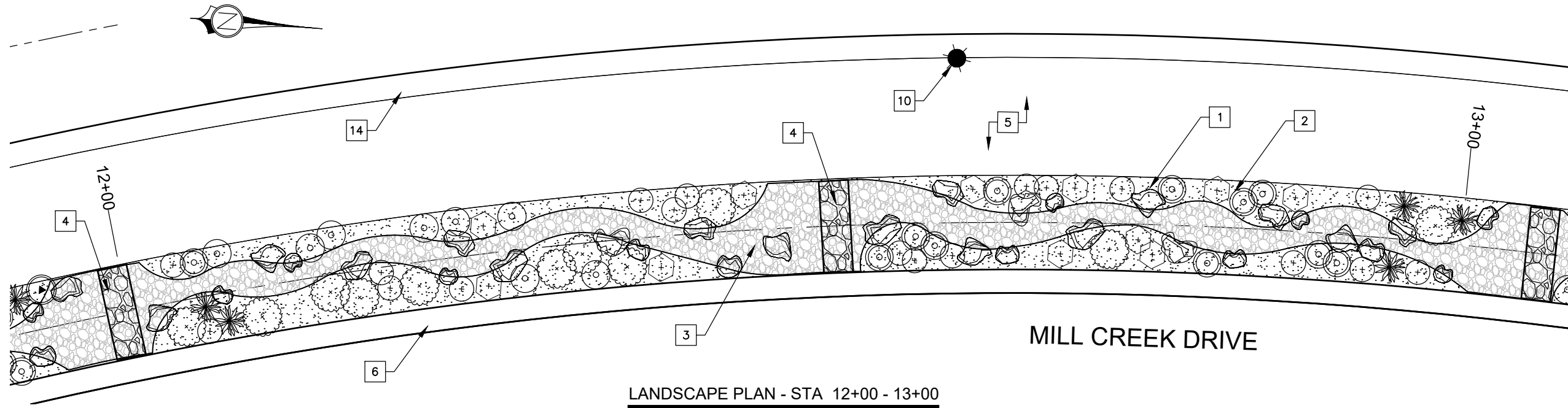
SCALE: 1" = 10'-0"

MILL CREEK DRIVE

LANDSCAPE PLANS
 MILL CREEK DRIVE WEST EXTENSION
 MOAB, UTAH

PROJ. #:	Fx-18127
DRAWN BY:	JP
DESIGN BY:	JP
CHECKED BY:	JKP
SCALE OF SHEET:	N/A
HOR SCALE:	N/A
VER SCALE:	N/A
SHEET	LP4

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LANDSCAPE PLAN - STA 12+00 - 13+00
SCALE: 1" = 10'-0"

MILL CREEK DRIVE

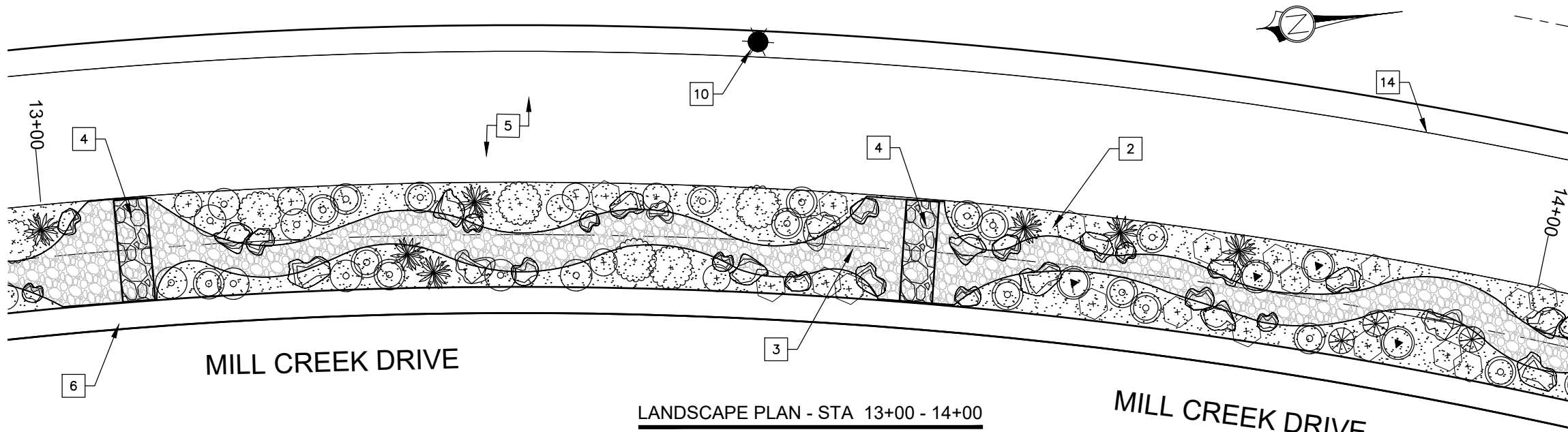
PLANT LEGEND

Symbol	Common Name	Scientific Name
	Desert Willow	Chilopsis linearis
	Bear Grass	Nolina microcarpa
	Littleleaf Mountain Mahogany	Cercocarpus intricatus
	Little Bluestem Grass	Schizachyrium scoparium
	Russian Sage	Perovskia atriplicifolia
	Fringed Sage	Artemisia frigida
	Dwarf Rabbitbrush	Chrysothamnus nauseosus v. nauseosus
	Small Leaf Globe Mallow	Sphaeralcea parvifolia
	Palmer's Penstemon	Penstemon palmeri
	Firecracker Penstemons	Penstemon eatoni

Symbol	Common Name	Scientific Name
	Desert Marigold	Baileya multiradiata
	Purple Iceplant	Delosperma cooperi
	Blanket Flower	Gaillardia aristata
	Banana Yucca	Yucca baccata
	Utah Agave	Agave utahensis
	Prickly Pear Cactus	Opuntia phoeacantha
	Strawberry Hedgehog Cactus	Echinocereus engelmannii
	Boulders	Red Sandstone
	Rock Mulch Type 1	1" Crushed - Moab Red Sandstone
	Rock Mulch Type 2	4"-8" Crushed-Moab Pink Sandstone

LANDSCAPE KEYNOTES:

- 1 RED SANDSTONE BOULDERS
- 2 ROCK MULCH - TYPE 1
- 3 ROCK MULCH - TYPE 2
- 4 LANDSCAPE CHECK DAM
- SEE SHEET XXX FOR DETAILS
- 5 SHARED USE CONCRETE TRAIL
- SEE SHEET TS1 FOR DETAILS
- 6 24" FLAT CONCRETE CURB
- SEE SHEET XXX FOR DETAILS
- 7 STORM DRAIN INLET BOX
- SEE APWA STD DETAIL 238
- 8 12" PERFORATED STORM DRAIN PIPE
- SEE SHEET XXX FOR DETAIL
- 9 PERFORATED STORM DRAIN PIPE
- 10 TRAIL LIGHT BOLLARD & FIXTURE
- 11 STREET LIGHT POLE & FIXTURE
- 12 FIRE HYDRANT ASSEMBLY
- 13 DETENTION BASIN
- 14 GRAVEL SHOULDER



LANDSCAPE PLAN - STA 13+00 - 14+00
SCALE: 1" = 10'-0"

MILL CREEK DRIVE

PRELIMINARY NOT FOR CONSTRUCTION

LANDSCAPE PLANS

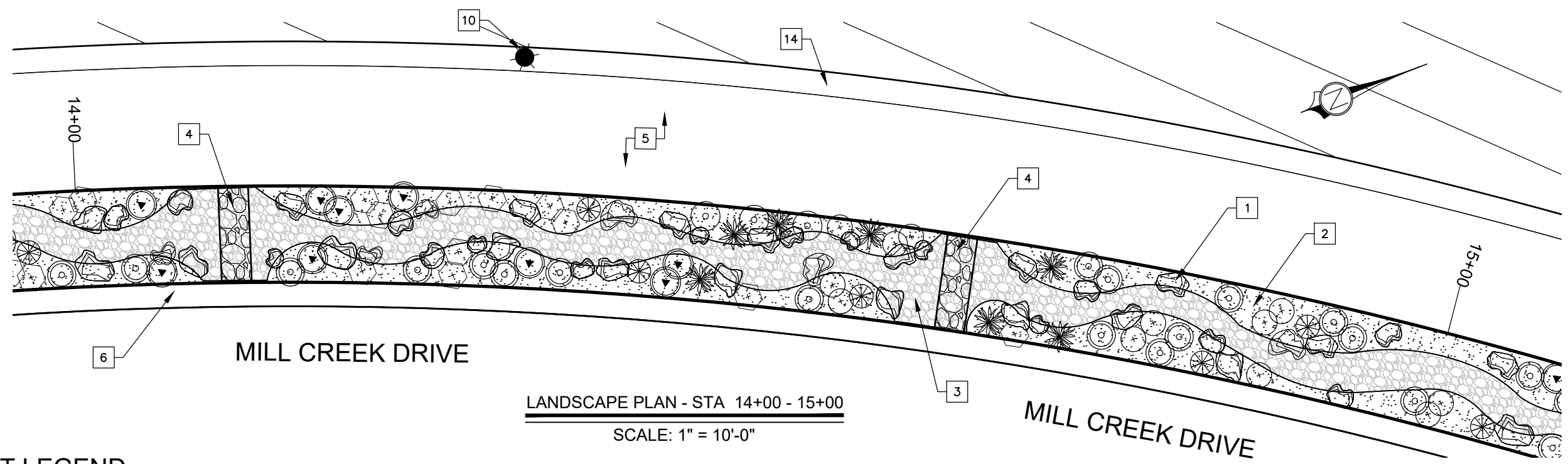
MILL CREEK DRIVE WEST EXTENSION
MOAB, UTAH

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DESIGN BY:	JP
CHECKED BY:	JKP
SCALE OF SHEET:	N/A
HOR SCALE:	N/A
VER SCALE:	N/A

SHEET **LP5**

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LANDSCAPE PLAN - STA 14+00 - 15+00
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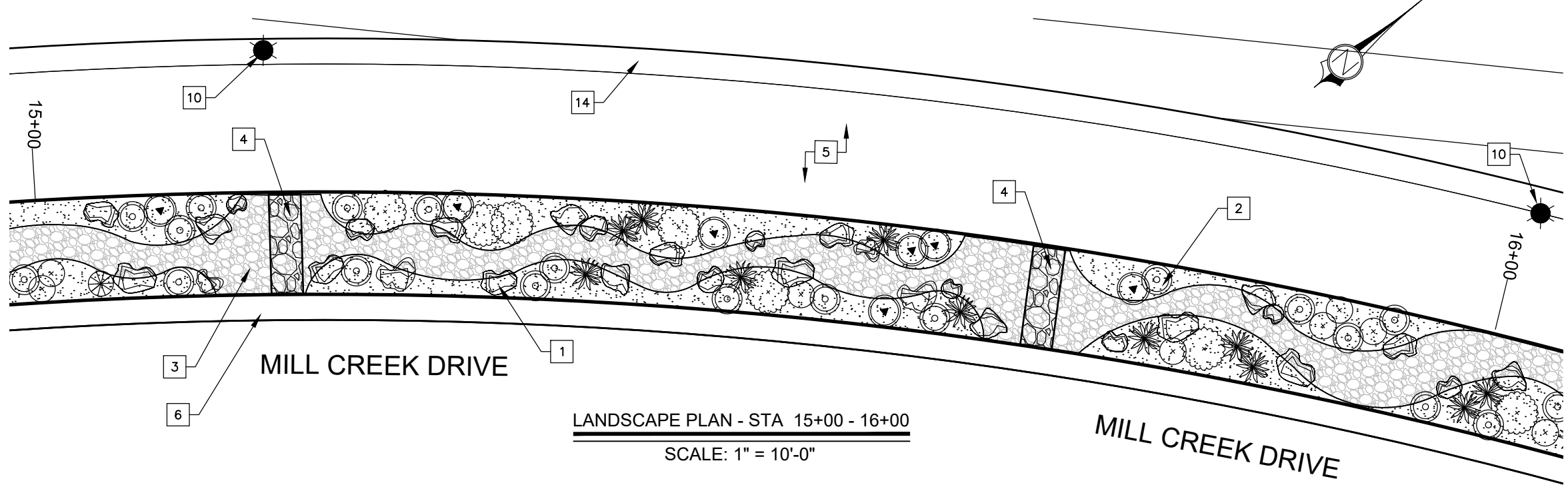
PLANT LEGEND

Symbol	Common Name	Scientific Name
	Desert Willow	Chilopsis linearis
	Bear Grass	Nolina microcarpa
	Littleleaf Mountain Mahogany	Cercocarpus intricatus
	Little Bluestem Grass	Schizachyrium scoparium
	Russian Sage	Perovskia atriplicifolia
	Fringed Sage	Artemisia frigida
	Dwarf Rabbitbrush	Chrysothamnus nauseosus v. nauseosus
	Small Leaf Globe Mallow	Sphaeralcea parvifolia
	Palmer's Penstemon	Penstemon palmeri
	Firecracker Penstemons	Penstemon eatoni

Symbol	Common Name	Scientific Name
	Desert Marigold	Baileya multiradiata
	Purple Iceplant	Delosperma cooperi
	Blanket Flower	Gaillardia aristata
	Banana Yucca	Yucca baccata
	Utah Agave	Agave utahensis
	Prickly Pear Cactus	Opuntia phoeacantha
	Strawberry Hedgehog Cactus	Echinocereus engelmannii
	Boulders	Red Sandstone
	Rock Mulch Type 1	1" Crushed - Moab Red Sandstone
	Rock Mulch Type 2	4"-8" Crushed-Moab Pink Sandstone

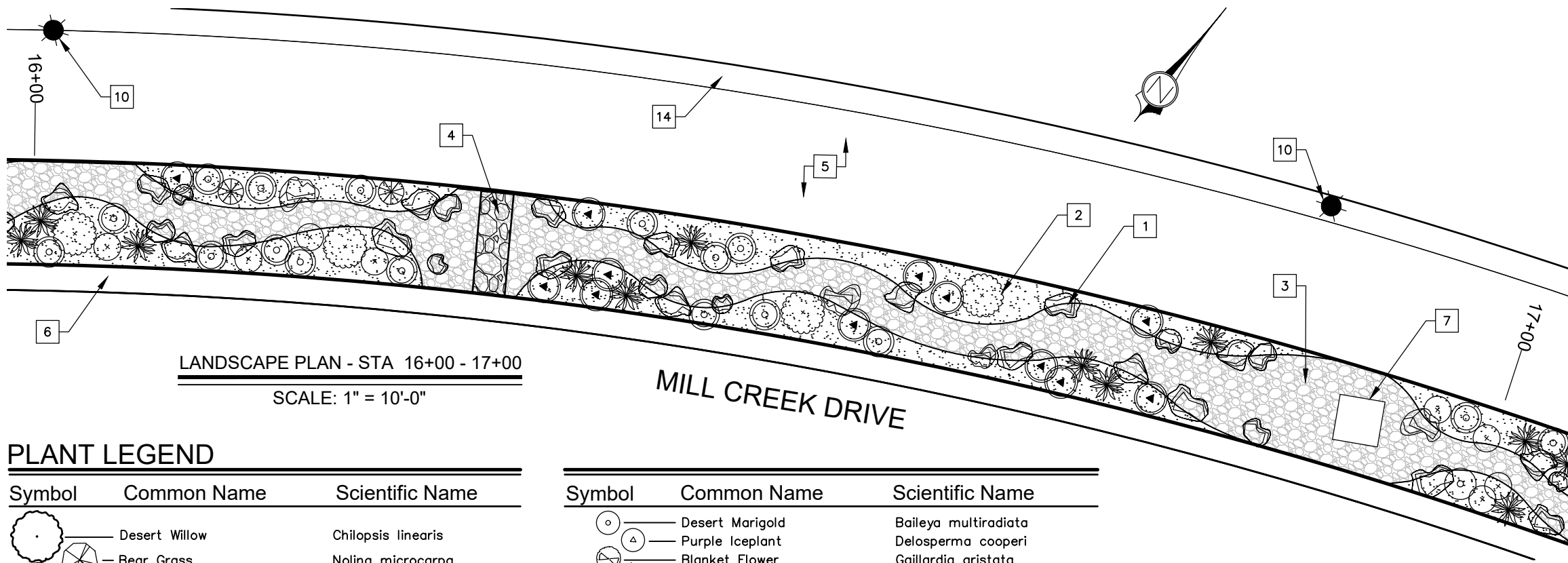
LANDSCAPE KEYNOTES:

- 1 RED SANDSTONE BOULDERS
- 2 ROCK MULCH - TYPE 1
- 3 ROCK MULCH - TYPE 2
- 4 LANDSCAPE CHECK DAM
- SEE SHEET XXX FOR DETAILS
- 5 SHARED USE CONCRETE TRAIL
- SEE SHEET TS1 FOR DETAILS
- 6 24" FLAT CONCRETE CURB
- SEE SHEET XXX FOR DETAILS
- 7 STORM DRAIN INLET BOX
- SEE APWA STD DETAIL 238
- 8 12" PERFORATED STORM DRAIN PIPE
- SEE SHEET XXX FOR DETAIL
- 9 PERFORATED STORM DRAIN PIPE
- 10 TRAIL LIGHT BOLLARD & FIXTURE
- 11 STREET LIGHT POLE & FIXTURE
- 12 FIRE HYDRANT ASSEMBLY
- 13 DETENTION BASIN
- 14 GRAVEL SHOULDER
- 15 XXX
-SEE APWA STD DETAIL 332
- 16 XXX
- SEE APWA STD DETAIL 332
- 17 XXX
- SEE APWA STD DETAIL 332
- 18 LOOSE - PLACED RIPRAP



LANDSCAPE PLAN - STA 15+00 - 16+00
 SCALE: 1" = 10'-0"

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LANDSCAPE PLAN - STA 16+00 - 17+00
SCALE: 1" = 10'-0"

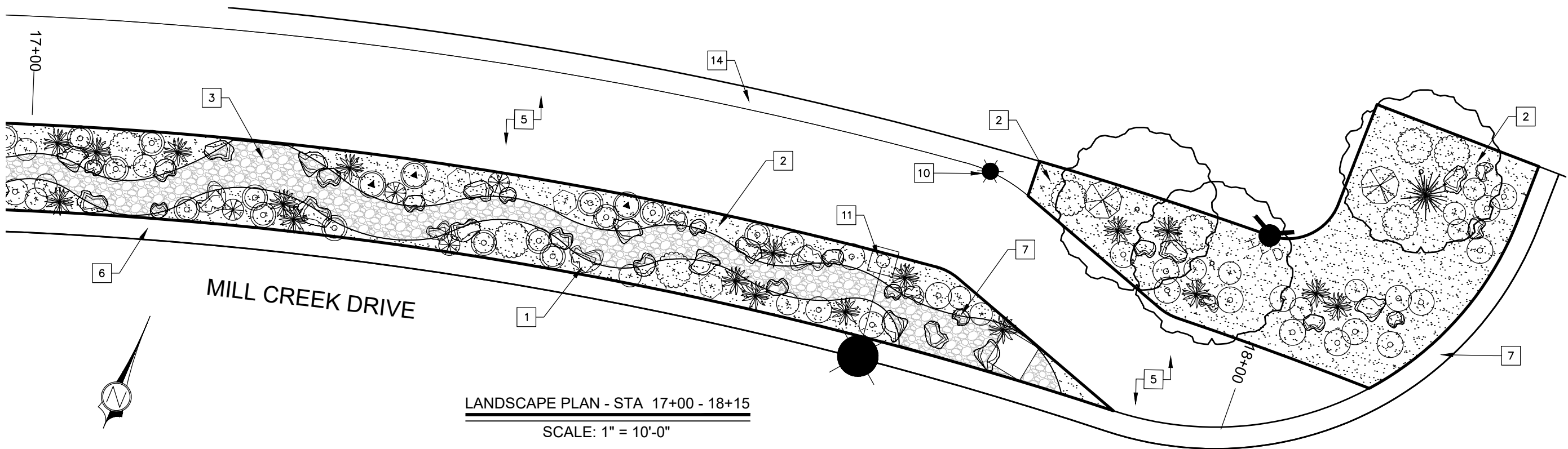
PLANT LEGEND

Symbol	Common Name	Scientific Name
	Desert Willow	Chilopsis linearis
	Bear Grass	Nolina microcarpa
	Littleleaf Mountain Mahogany	Cercocarpus intricatus
	Little Bluestem Grass	Schizachyrium scoparium
	Russian Sage	Perovskia atriplicifolia
	Fringed Sage	Artemisia frigida
	Dwarf Rabbitbrush	Chrysothamnus nauseosus v. nauseosus
	Small Leaf Globe Mallow	Sphaeralcea parvifolia
	Palmer's Penstemon	Penstemon palmeri
	Firecracker Penstemons	Penstemon eatoni

Symbol	Common Name	Scientific Name
	Desert Marigold	Baileya multiradiata
	Purple Iceplant	Delosperma cooperi
	Blanket Flower	Gaillardia aristata
	Banana Yucca	Yucca baccata
	Utah Agave	Agave utahensis
	Prickly Pear Cactus	Opuntia phoeacantha
	Strawberry Hedgehog Cactus	Echinocereus engelmannii
	Boulders	Red Sandstone
	Rock Mulch Type 1	1" Crushed - Moab Red Sandstone
	Rock Mulch Type 2	4"-8" Crushed-Moab Pink Sandstone

LANDSCAPE KEYNOTES:

- 1 RED SANDSTONE BOULDERS
- 2 ROCK MULCH - TYPE 1
- 3 ROCK MULCH - TYPE 2
- 4 PLANT-MIX BITUMINOUS PAVING
- 5 LANDSCAPE CHECK DAM - SEE SHEET XXX FOR DETAILS
- 6 SHARED USE CONCRETE TRAIL - SEE SHEET TS1 FOR DETAILS
- 7 24" FLAT CONCRETE CURB - SEE SHEET XXX FOR DETAILS
- 8 STORM DRAIN INLET BOX - SEE APWA STD DETAIL 238
- 9 12" PERFORATED STORM DRAIN PIPE - SEE SHEET XXX FOR DETAIL
- 10 PERFORATED STORM DRAIN PIPE
- 11 TRAIL LIGHT BOLLARD & FIXTURE
- 12 STREET LIGHT POLE & FIXTURE
- 13 FIRE HYDRANT ASSEMBLY
- 14 DETENTION BASIN
- 15 GRAVEL SHOULDER



LANDSCAPE PLAN - STA 17+00 - 18+15
SCALE: 1" = 10'-0"

PRELIMINARY NOT FOR CONSTRUCTION

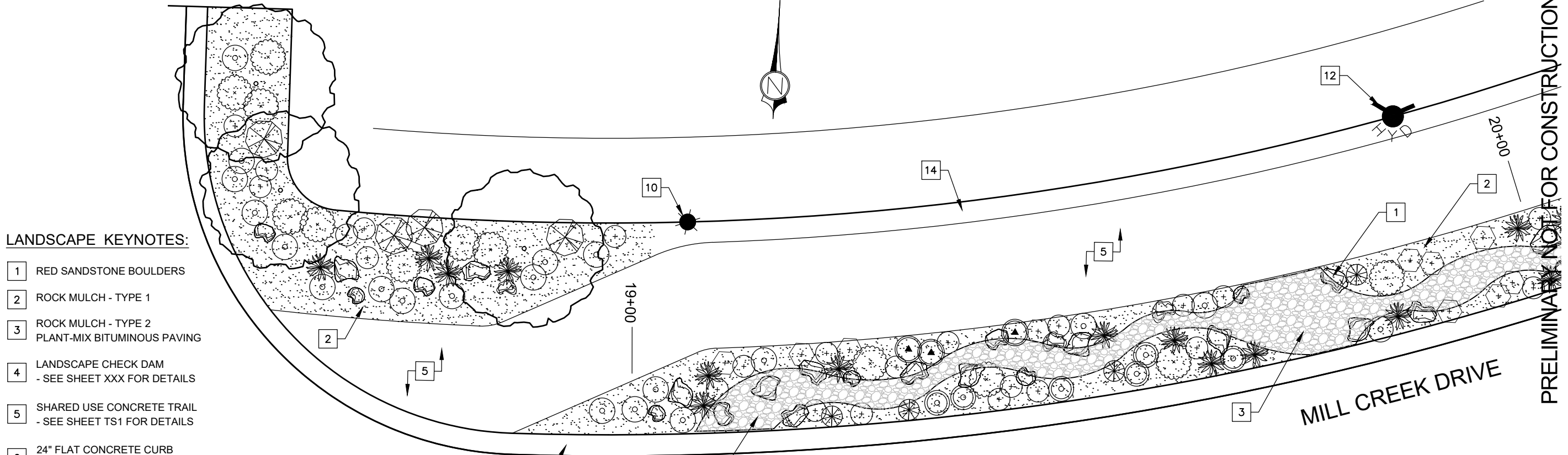
CIVIL SCIENCE
INFRASTRUCTURE, INC.
1453 S. DIXIE DRIVE, SUITE 150
ST. GEORGE, UT 84770
435-986-0100

ENVIRONMENTAL DESIGN STUDIO LLC
LANDSCAPE ARCHITECTURE • PLANNING • GRAPHICS
P.O. Box 341 • Washington, UT • 84780
Phone: (435) 705-1882

LANDSCAPE PLANS
MILL CREEK DRIVE WEST EXTENSION
MOAB, UTAH

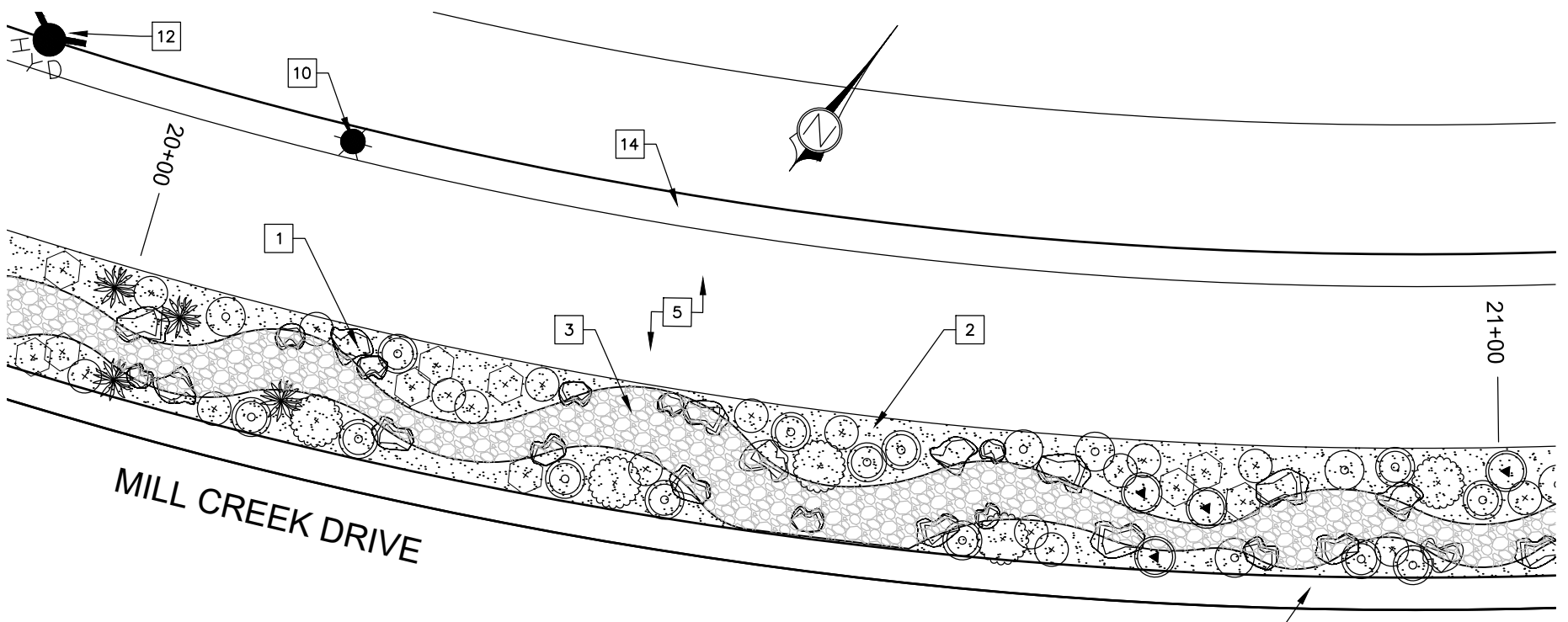
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DESIGN BY: JP
CHECKED BY: JKP
SCALE OF SHEET: N/A
HOR SCALE: N/A
VER SCALE: N/A
SHEET **LP7**
34 OF 49

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LANDSCAPE KEYNOTES:

- 1 RED SANDSTONE BOULDERS
- 2 ROCK MULCH - TYPE 1
- 3 ROCK MULCH - TYPE 2
- 4 PLANT-MIX BITUMINOUS PAVING
- 5 LANDSCAPE CHECK DAM
- SEE SHEET XXX FOR DETAILS
- 6 SHARED USE CONCRETE TRAIL
- SEE SHEET TS1 FOR DETAILS
- 7 24" FLAT CONCRETE CURB
- SEE SHEET XXX FOR DETAILS
- 8 STORM DRAIN INLET BOX
- SEE APWA STD DETAIL 238
- 9 12" PERFORATED STORM DRAIN PIPE
- SEE SHEET XXX FOR DETAIL
- 10 PERFORATED STORM DRAIN PIPE
- 10 TRAIL LIGHT BOLLARD & FIXTURE
- 11 STREET LIGHT POLE & FIXTURE
- 12 FIRE HYDRANT ASSEMBLY
- 13 DETENTION BASIN
- 14 GRAVEL SHOULDER

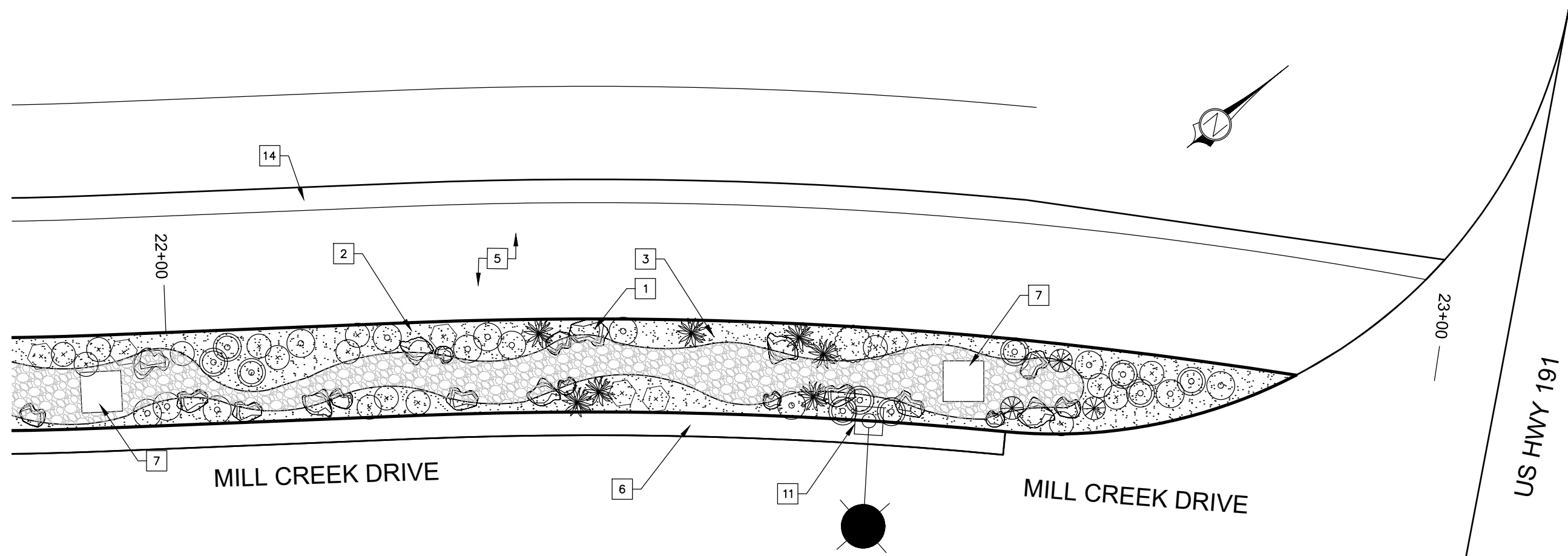


PLANT LEGEND

Symbol	Common Name	Scientific Name
	Desert Willow	Chilopsis linearis
	Bear Grass	Nolina microcarpa
	Littleleaf Mountain Mahogany	Cercocarpus intricatus
	Little Bluestem Grass	Schizachyrium scoparium
	Russian Sage	Perovskia atriplicifolia
	Fringed Sage	Artemisia frigida
	Dwarf Rabbitbrush	Chrysothamnus nauseosus v. nauseosus
	Small Leaf Globe Mallow	Sphaeralcea parvifolia
	Palmer's Penstemon	Penstemon sp. Palmer
	Firecracker Penstemons	Penstemon eatoni
	Desert Marigold	Baileya multiradiata
	Purple Iceplant	Delosperma cooperi
	Blanket Flower	Gaillardia aristata
	Banana Yucca	Yucca baccata
	Utah Agave	Agave utahensis
	Prickly Pear Cactus	Opuntia phoeacantha
	Strawberry Hedgehog Cactus	Echinocereus engelmannii
	Boulders	Red Sandstone
	Rock Mulch Type 1	1" Crushed - Moab Red Sandstone
	Rock Mulch Type 2	4"-8" Crushed-Moab Pink Sandstone

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LANDSCAPE PLAN - STA 11+00 - 12+00

SCALE: 1" = 10'-0"

LANDSCAPE KEYNOTES:

- 1 RED SANDSTONE BOULDERS
- 2 ROCK MULCH - TYPE 1
- 3 ROCK MULCH - TYPE 2
- 4 PLANT-MIX BITUMINOUS PAVING
- 5 LANDSCAPE CHECK DAM
- SEE SHEET XXX FOR DETAILS
- 6 SHARED USE CONCRETE TRAIL
- SEE SHEET TS1 FOR DETAILS
- 7 24" FLAT CONCRETE CURB
- SEE SHEET XXX FOR DETAILS
- 8 STORM DRAIN INLET BOX
- SEE APWA STD DETAIL 238
- 9 12" PERFORATED STORM DRAIN PIPE
- SEE SHEET XXX FOR DETAIL
- 10 PERFORATED STORM DRAIN PIPE
- 11 TRAIL LIGHT BOLLARD & FIXTURE
- 12 STREET LIGHT POLE & FIXTURE
- 13 FIRE HYDRANT ASSEMBLY
- 14 DETENTION BASIN
- 15 GRAVEL SHOULDER

PLANT LEGEND

Symbol	Common Name	Scientific Name
	Desert Willow	Chilopsis linearis
	Bear Grass	Nolina microcarpa
	Littleleaf Mountain Mahogany	Cercocarpus intricatus
	Little Bluestem Grass	Schizachyrium scoparium
	Russian Sage	Perovskia atriplicifolia
	Fringed Sage	Artemisia frigida
	Dwarf Rabbitbrush	Chrysothamnus nauseosus v. nauseosus
	Small Leaf Globe Mallow	Sphaeralcea parvifolia
	Palmer's Penstemon	Penstemon sp. Palmer
	Firecracker Penstemons	Penstemon eatoni
	Desert Marigold	Baileya multiradiata
	Purple Iceplant	Delosperma cooperi
	Blanket Flower	Gaillardia aristata
	Banana Yucca	Yucca baccata
	Utah Agave	Agave utahensis
	Prickly Pear Cactus	Opuntia phoeacantha
	Strawberry Hedgehog Cactus	Echinocereus engelmannii
	Boulders	Red Sandstone
	Rock Mulch Type 1	1" Crushed - Moab Red Sandstone
	Rock Mulch Type 2	4"-8" Crushed-Moab Pink Sandstone

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CIVIL SCIENCE
 INFRASTRUCTURE, INC.
 1453 S. DIXIE DRIVE, SUITE 150
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 435-986-0100

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 LANDSCAPE ARCHITECTURE • PLANNING • GRAPHICS
 P.O. Box 341 • Washington, UT • 84780
 Phone: (435) 795-1892

LANDSCAPE PLANS

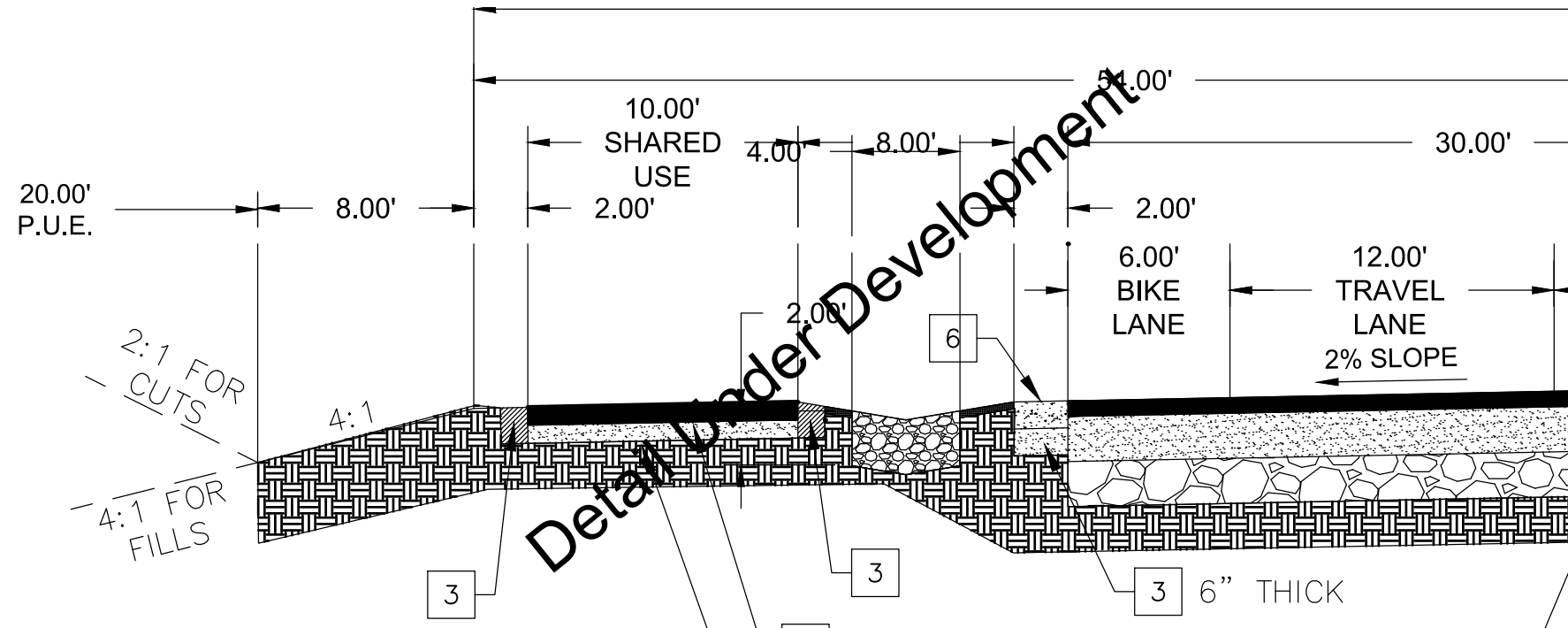
MILL CREEK DRIVE WEST EXTENSION
 MOAB, UTAH

PROJ. #: Fx-18127
 DRAWN BY: JP
 DESIGN BY: JP
 CHECKED BY: JKP

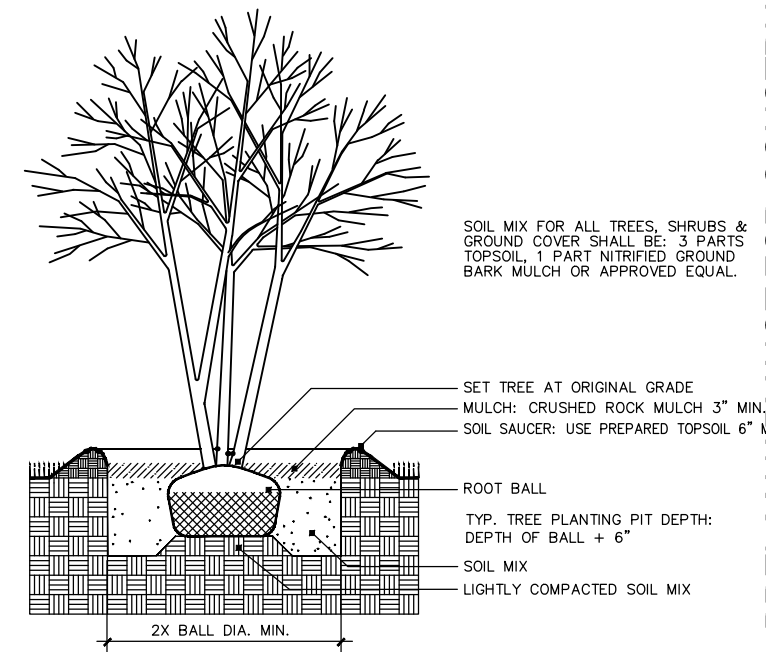
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SHEET **LP9**

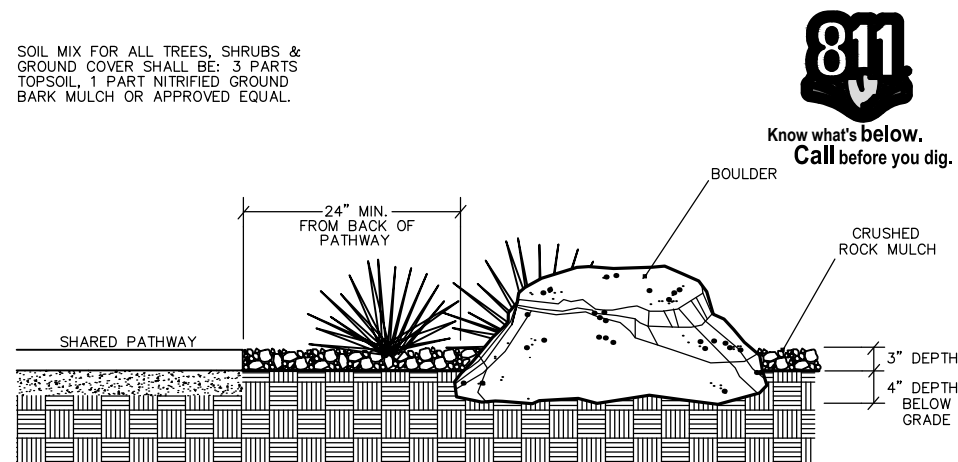
36 OF 49



(X) **LANDSCAPE WATER HARVESTING ZONE**
Not to Scale / Detail Under Development



(X) **MULTI-STEM TREE PLANTING**
Not to Scale



(X) **ORNAMENTAL BOULDER LOCATION AND PLACEMENT**
Not to Scale

(X) **LANDSCAPE CHECK DAM DETAIL**
Not to Scale / Detail Under Development

(X) **TYPICAL DETAIL**
Not to Scale

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CIVIL SCIENCE
INFRASTRUCTURE, INC.
1453 S. DIXIE DRIVE, SUITE 150
ST. GEORGE, UT 84770
435-986-0100

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LANDSCAPE ARCHITECTURE • PLANNING • GRAPHICS
Phone: (435) 705-1892
P.O. Box 541 • Washington, UT 84780

LANDSCAPE PLANS
MILL CREEK DRIVE WEST EXTENSION
MOAB, UTAH

PROJ. #: Fx-18127
DRAWN BY: JP
DESIGN BY: JP
CHECKED BY: JKP
SCALE OF SHEET: N/A
HOR SCALE: N/A
VER SCALE: N/A
SHEET **LP10**

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TYPICAL DETAIL

TYPICAL DETAIL

TYPICAL DETAIL

TYPICAL DETAIL

TYPICAL DETAIL

TYPICAL DETAIL

PRELIMINARY NOT FOR CONSTRUCTION

LANDSCAPE PLANS

MILL CREEK DRIVE WEST EXTENSION
MOAB, UTAH



PROJ. #: Fx-18127
DRAWN BY: JP
DESIGN BY: JP
CHECKED BY: JKP
SCALE OF SHEET
HOR SCALE: N/A
VER SCALE: N/A

SHEET **LP11**

PLOT: 2016.07.04 12:46 PM
PATH: E:\EDS\PROJECT FILES\MOAB\DWG FILES\18127_LSP_FOR REVIEW\DWG

TYPICAL DETAIL FOR CHECK DAM

TYPICAL DETAIL

TYPICAL DETAIL

TYPICAL DETAIL

TYPICAL DETAIL

TYPICAL DETAIL

PRELIMINARY NOT FOR CONSTRUCTION

LANDSCAPE PLANS

MILL CREEK DRIVE WEST EXTENSION
MOAB, UTAH

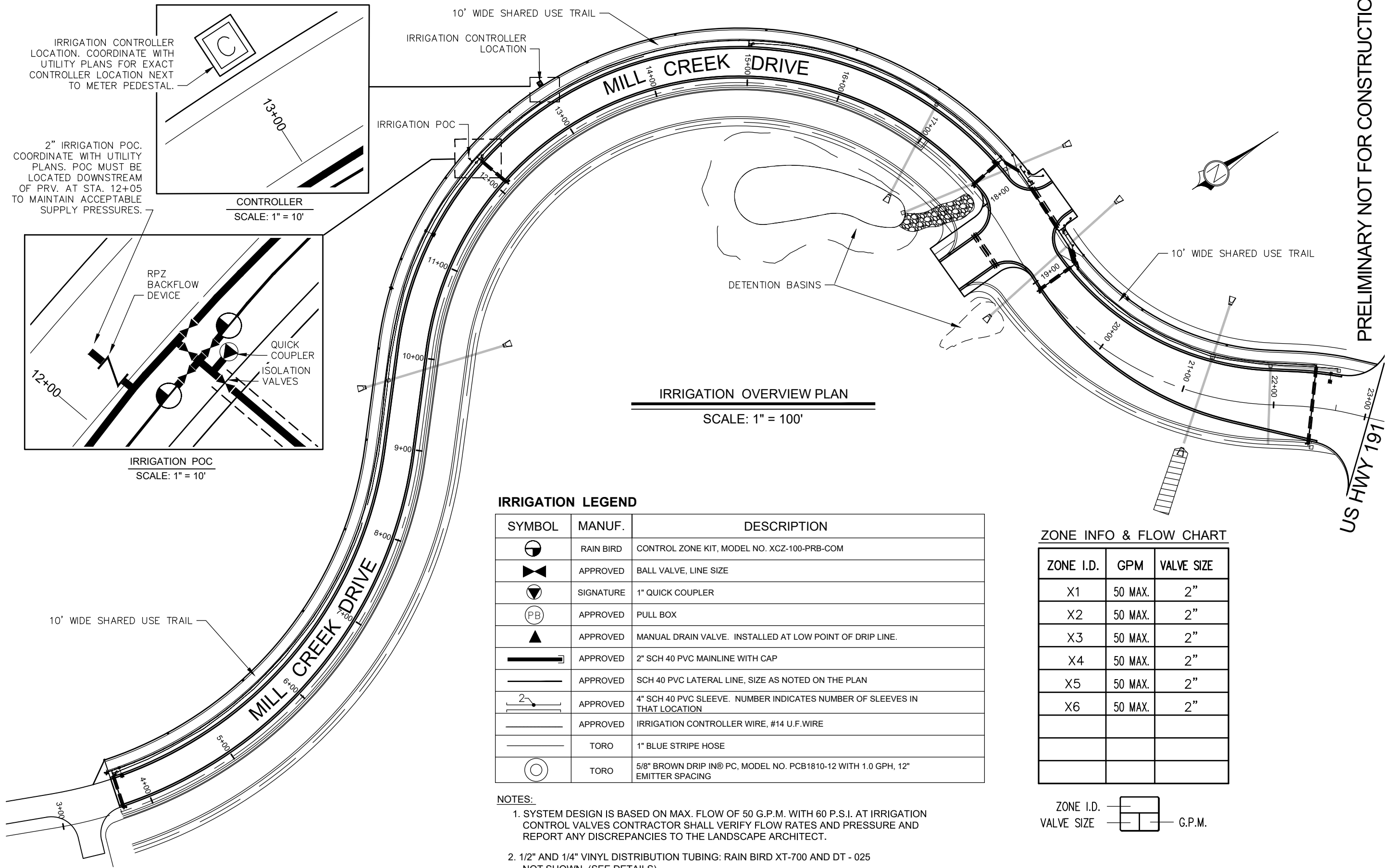
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CHECKED BY: JKP
SCALE OF SHEET
HOR SCALE: N/A
VER SCALE: N/A

SHEET **LP12**

39 OF 49



PRELIMINARY NOT FOR CONSTRUCTION



IRRIGATION OVERVIEW PLAN
 SCALE: 1" = 100'

CONTROLLER
 SCALE: 1" = 10'

IRRIGATION POC
 SCALE: 1" = 10'

IRRIGATION LEGEND

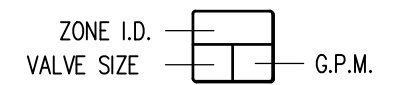
SYMBOL	MANUF.	DESCRIPTION
	RAIN BIRD	CONTROL ZONE KIT, MODEL NO. XCZ-100-PRB-COM
	APPROVED	BALL VALVE, LINE SIZE
	SIGNATURE	1" QUICK COUPLER
	APPROVED	PULL BOX
	APPROVED	MANUAL DRAIN VALVE. INSTALLED AT LOW POINT OF DRIP LINE.
	APPROVED	2" SCH 40 PVC MAINLINE WITH CAP
	APPROVED	SCH 40 PVC LATERAL LINE, SIZE AS NOTED ON THE PLAN
	APPROVED	4" SCH 40 PVC SLEEVE. NUMBER INDICATES NUMBER OF SLEEVES IN THAT LOCATION
	APPROVED	IRRIGATION CONTROLLER WIRE, #14 U.F. WIRE
	TORO	1" BLUE STRIPE HOSE
	TORO	5/8" BROWN DRIP IN@ PC, MODEL NO. PCB1810-12 WITH 1.0 GPH, 12" EMITTER SPACING

NOTES:

1. SYSTEM DESIGN IS BASED ON MAX. FLOW OF 50 G.P.M. WITH 60 P.S.I. AT IRRIGATION CONTROL VALVES CONTRACTOR SHALL VERIFY FLOW RATES AND PRESSURE AND REPORT ANY DISCREPANCIES TO THE LANDSCAPE ARCHITECT.
2. 1/2" AND 1/4" VINYL DISTRIBUTION TUBING: RAIN BIRD XT-700 AND DT - 025 NOT SHOWN. (SEE DETAILS)

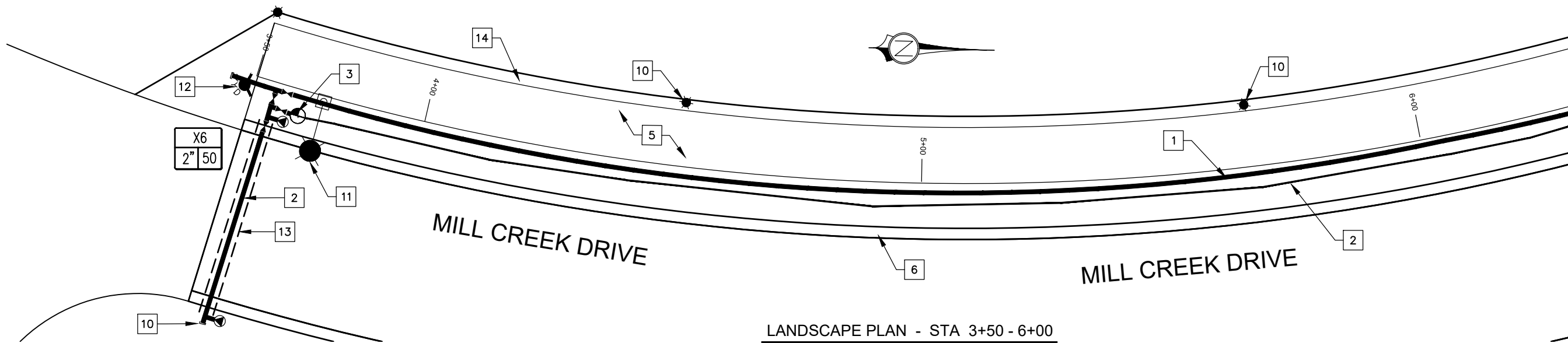
ZONE INFO & FLOW CHART

ZONE I.D.	GPM	VALVE SIZE
X1	50 MAX.	2"
X2	50 MAX.	2"
X3	50 MAX.	2"
X4	50 MAX.	2"
X5	50 MAX.	2"
X6	50 MAX.	2"



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PLOT: 2016.05.04 12:57 PM
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LANDSCAPE PLAN - STA 3+50 - 6+00

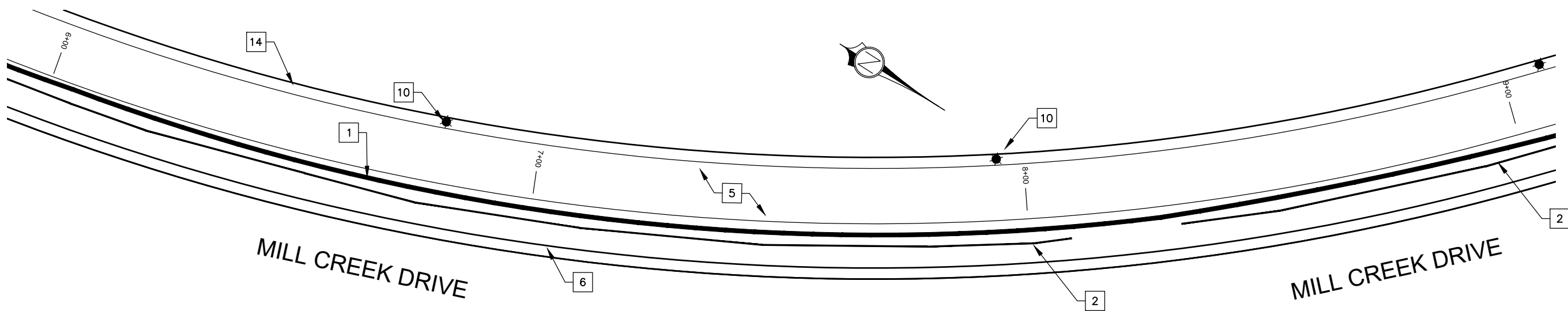
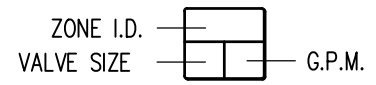
SCALE: 1" = 20'-0"

IRRIGATION LEGEND

SYMBOL	MANUF.	DESCRIPTION	DETAIL
	RAIN BIRD	CONTROL ZONE KIT, MODEL NO. X CZ-100-PRB-COM	I
	APPROVED	BALL VALVE, LINE SIZE	A
	SIGNATURE	1" QUICK COUPLER	F
	APPROVED	PULL BOX	D
	APPROVED	MANUAL DRAIN VALVE. INSTALLED AT LOW POINT OF DRIP LINE.	G
	APPROVED	2" SCH 40 PVC MAINLINE WITH CAP	G
	APPROVED	SCH 40 PVC LATERAL LINE, SIZE AS NOTED ON THE PLAN	H
	APPROVED	4" SCH 40 PVC SLEEVE. NUMBER INDICATES NUMBER OF SLEEVES IN THAT LOCATION	L
	APPROVED	IRRIGATION CONTROLLER WIRE, #14 U.F. WIRE	B, C, D
	TORO	1" BLUE STRIPE HOSE	B, C
	TORO	5/8" BROWN DRIP IN@ PC, MODEL NO. PCB1810-12 WITH 1.0 GPH, 12" EMITTER SPACING	C

IRRIGATION KEYNOTES:

- | | |
|---|----------------------------------|
| 1 2" IRRIGATION MAIN LINE | 8 MANUAL DRAIN VALVE |
| 2 IRRIGATION LATERAL - SIZE NOTED | 9 CAPPED MAIN LINE FOR EXPANSION |
| 3 IRRIGATION DRIP VALVE ASSEMBLY
-SEE SHEET XXX FOR DETAIL | 10 TRAIL LIGHT BOLLARD & FIXTURE |
| 4 1" IRRIGATION DRIP LINE - TORO
BLUE STRIPE HOSE | 11 STREET LIGHT POLE & FIXTURE |
| 5 SHARED USE CONCRETE TRAIL
- SEE SHEET TS1 FOR DETAILS | 12 FIRE HYDRANT ASSEMBLY |
| 6 24" FLAT CONCRETE CURB
- SEE ENG PLANS FOR DETAILS | 13 4" PVC CONDUIT |
| 7 STORM DRAIN INLET BOX
- SEE APWA STD DETAIL 238 | 14 GRAVEL SHOULDER |



LANDSCAPE PLAN - STA 6+00 - 9+00

SCALE: 1" = 20'-0"

PRELIMINARY NOT FOR CONSTRUCTION

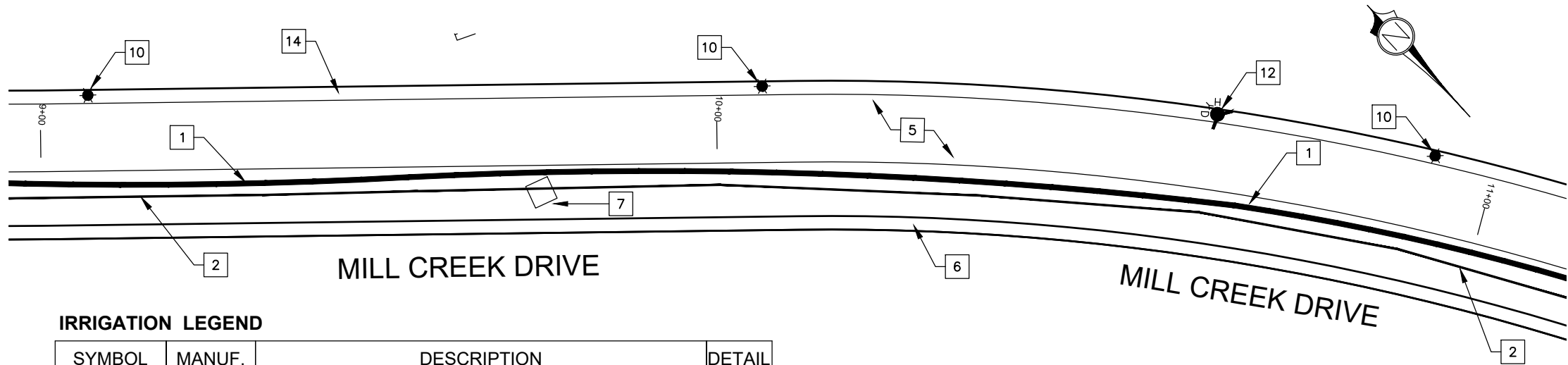
CIVIL SCIENCE
 INFRASTRUCTURE, INC.
 1453 S. DIXIE DRIVE, SUITE 150
 ST. GEORGE, UT 84770
 435-986-0100

ENVIRONMENTAL DESIGN STUDIO LLC
 LANDSCAPE ARCHITECTURE • PLANNING • GRAPHICS
 Phone: (435) 705-1882
 P.O. Box 341 Washington, UT 84780

IRRIGATION PLANS
 MILL CREEK DRIVE WEST EXTENSION
 MOAB, UTAH

PROJ. #: Fx 18127
 DRAWN BY: JP
 DESIGN BY: JP
 CHECKED BY: JKP
 SCALE OF SHEET: N/A
 HOR SCALE: N/A
 VER SCALE: N/A
 SHEET **IP1**
 41 OF 49

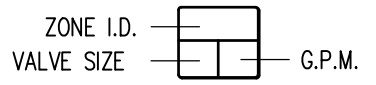
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IRRIGATION PLAN - STA 9+00 - 11+00
 SCALE: 1" = 20'-0"

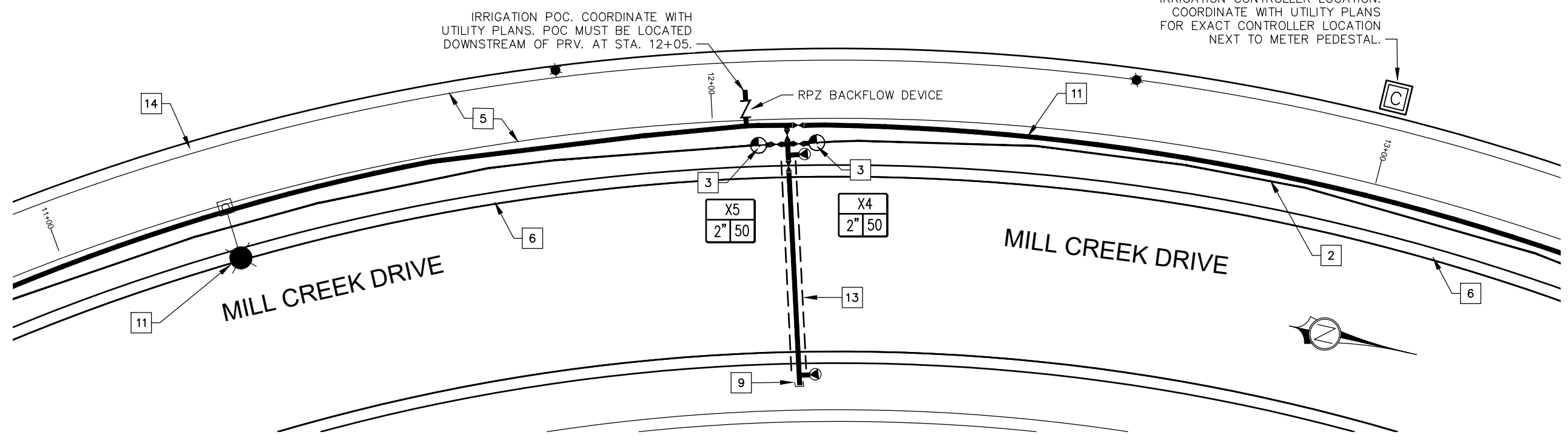
IRRIGATION KEYNOTES:

- 1 2" IRRIGATION MAIN LINE
- 2 IRRIGATION LATERAL - SIZE NOTED
- 3 IRRIGATION DRIP VALVE ASSEMBLY
-SEE SHEET XXX FOR DETAIL
- 4 1" IRRIGATION DRIP LINE - TORO
BLUE STRIPE HOSE
- 5 SHARED USE CONCRETE TRAIL
- SEE SHEET TS1 FOR DETAILS
- 6 24" FLAT CONCRETE CURB
- SEE SHEET XXX FOR DETAILS
- 7 STORM DRAIN INLET BOX
- SEE APWA STD DETAIL 238
- 8 MANUAL DRAIN VALVE
- SEE DETAILS
- 9 CAPPED MAIN LINE FOR EXPANSION
- 10 TRAIL LIGHT BOLLARD & FIXTURE
- 11 STREET LIGHT POLE & FIXTURE
- 12 FIRE HYDRANT ASSEMBLY
- 13 4" PVC CONDUIT
- 14 GRAVEL SHOULDER



IRRIGATION LEGEND

SYMBOL	MANUF.	DESCRIPTION	DETAIL
	RAIN BIRD	CONTROL ZONE KIT, MODEL NO. XCZ-100-PRB-COM	I
	APPROVED	BALL VALVE, LINE SIZE	A
	SIGNATURE	1" QUICK COUPLER	F
	APPROVED	PULL BOX	D
	APPROVED	MANUAL DRAIN VALVE. INSTALLED AT LOW POINT OF DRIP LINE.	G
	APPROVED	2" SCH 40 PVC MAINLINE WITH CAP	G
	APPROVED	SCH 40 PVC LATERAL LINE, SIZE AS NOTED ON THE PLAN	H
	APPROVED	4" SCH 40 PVC SLEEVE. NUMBER INDICATES NUMBER OF SLEEVES IN THAT LOCATION	L
	APPROVED	IRRIGATION CONTROLLER WIRE, #14 U.F. WIRE	B, C, D
	TORO	1" BLUE STRIPE HOSE	B, C
	TORO	5/8" BROWN DRIP IN® PC, MODEL NO. PCB1810-12 WITH 1.0 GPH, 12" EMITTER SPACING	C



IRRIGATION PLAN - STA 11+00 - 13+00
 SCALE: 1" = 20'-0"

IRRIGATION CONTROLLER LOCATION.
 COORDINATE WITH UTILITY PLANS
 FOR EXACT CONTROLLER LOCATION
 NEXT TO METER PEDESTAL.

PRELIMINARY NOT FOR CONSTRUCTION

CIVIL SCIENCE
INFRASTRUCTURE, INC.
 1463 S. DIXIE DRIVE, SUITE 150
 ST. GEORGE, UT 84770
 435-986-0100

ENVIRONMENTAL DESIGN STUDIO LLC
 LANDSCAPE ARCHITECTURE • PLANNING • GRAPHICS
 Phone: (435) 705-1802
 P.O. Box 341 • Washington, UT • 84780

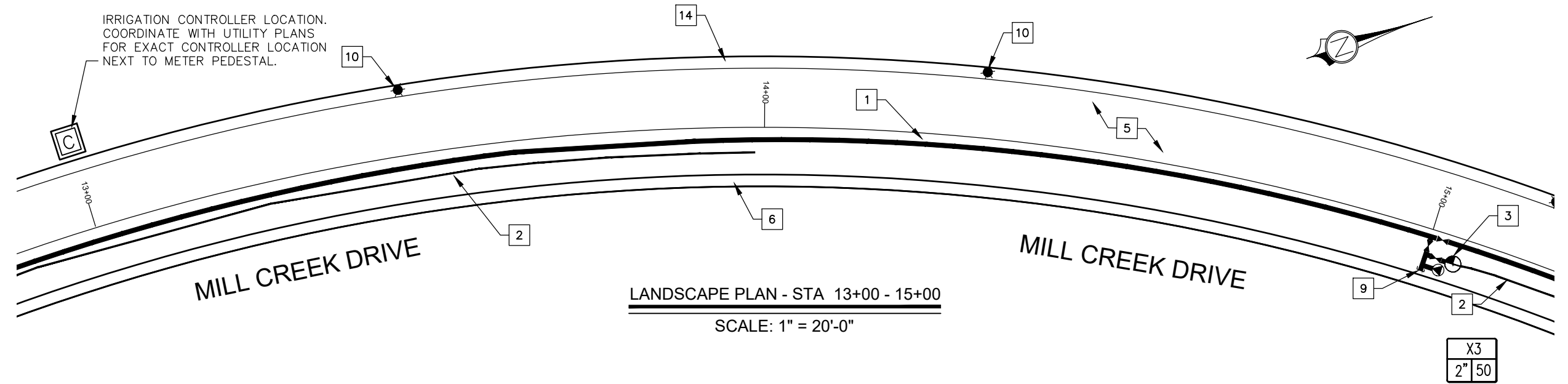
IRRIGATION PLANS
 MILL CREEK DRIVE WEST EXTENSION
 MOAB, UTAH

PROJ. #:	Fx 18127
DRAWN BY:	JP
DESIGN BY:	JP
CHECKED BY:	JKP
SCALE OF SHEET:	N/A
HOR SCALE:	N/A
VER SCALE:	N/A
SHEET	IP2
	42 OF 49

PRELIMINARY NOT FOR CONSTRUCTION

IRRIGATION PLANS
 MILL CREEK DRIVE WEST EXTENSION
 MOAB, UTAH

PROJ. #: Fx-18127
 DRAWN BY: JP
 DESIGN BY: JP
 CHECKED BY: JKP
 SCALE OF SHEET: N/A
 HOR SCALE: N/A
 VER SCALE: N/A
 SHEET **IP3**
 43 OF 49



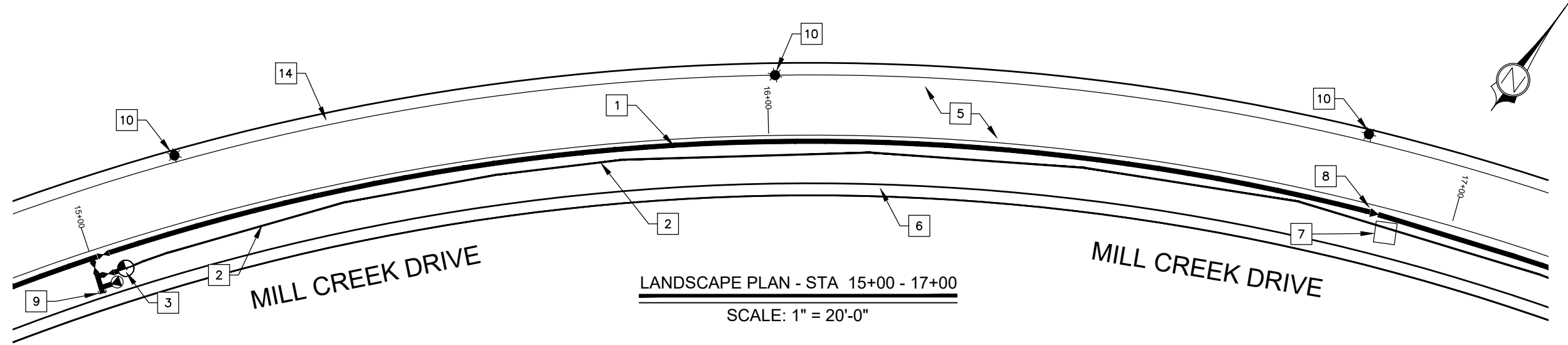
LANDSCAPE PLAN - STA 13+00 - 15+00
 SCALE: 1" = 20'-0"

IRRIGATION LEGEND

SYMBOL	MANUF.	DESCRIPTION	DETAIL
	RAIN BIRD	CONTROL ZONE KIT, MODEL NO. XGZ-100-PRB-COM	I
	APPROVED	BALL VALVE, LINE SIZE	A
	SIGNATURE	1" QUICK COUPLER	F
	APPROVED	PULL BOX	D
	APPROVED	MANUAL DRAIN VALVE. INSTALLED AT LOW POINT OF DRIP LINE.	G
	APPROVED	2" SCH 40 PVC MAINLINE WITH CAP	G
	APPROVED	SCH 40 PVC LATERAL LINE, SIZE AS NOTED ON THE PLAN	H
	APPROVED	4" SCH 40 PVC SLEEVE. NUMBER INDICATES NUMBER OF SLEEVES IN THAT LOCATION	L
	APPROVED	IRRIGATION CONTROLLER WIRE, #14 U.F. WIRE	B, C, D
	TORO	1" BLUE STRIPE HOSE	B, C
	TORO	5/8" BROWN DRIP IN® PC, MODEL NO. PCB1810-12 WITH 1.0 GPH, 12" EMITTER SPACING	C

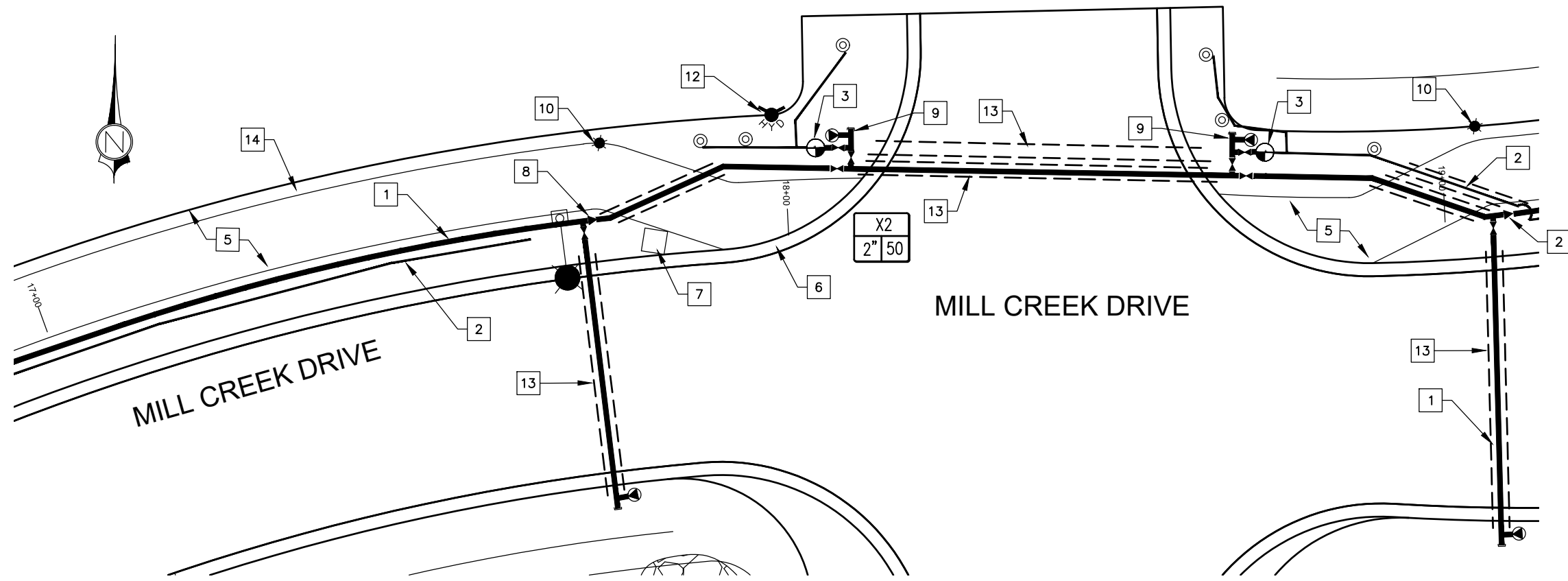
IRRIGATION KEYNOTES:

- 1 2" IRRIGATION MAIN LINE
- 2 IRRIGATION LATERAL - SIZE NOTED
- 3 IRRIGATION DRIP VALVE ASSEMBLY -SEE SHEET XXX FOR DETAIL
- 4 1" IRRIGATION DRIP LINE - TORO BLUE STRIPE HOSE
- 5 SHARED USE CONCRETE TRAIL - SEE SHEET TS1 FOR DETAILS
- 6 24" FLAT CONCRETE CURB - SEE SHEET XXX FOR DETAILS
- 7 STORM DRAIN INLET BOX - SEE APWA STD DETAIL 238
- 8 MANUAL DRAIN VALVE - SEE DETAIL
- 9 CAPPED MAIN LINE FOR EXPANSION
- 10 TRAIL LIGHT BOLLARD & FIXTURE
- 11 STREET LIGHT POLE & FIXTURE
- 12 FIRE HYDRANT ASSEMBLY
- 13 4" PVC CONDUIT
- 14 GRAVEL SHOULDER



LANDSCAPE PLAN - STA 15+00 - 17+00
 SCALE: 1" = 20'-0"

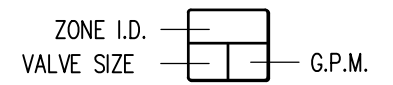
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LANDSCAPE PLAN - STA 17+00 - 19+00
SCALE: 1" = 20'-0"

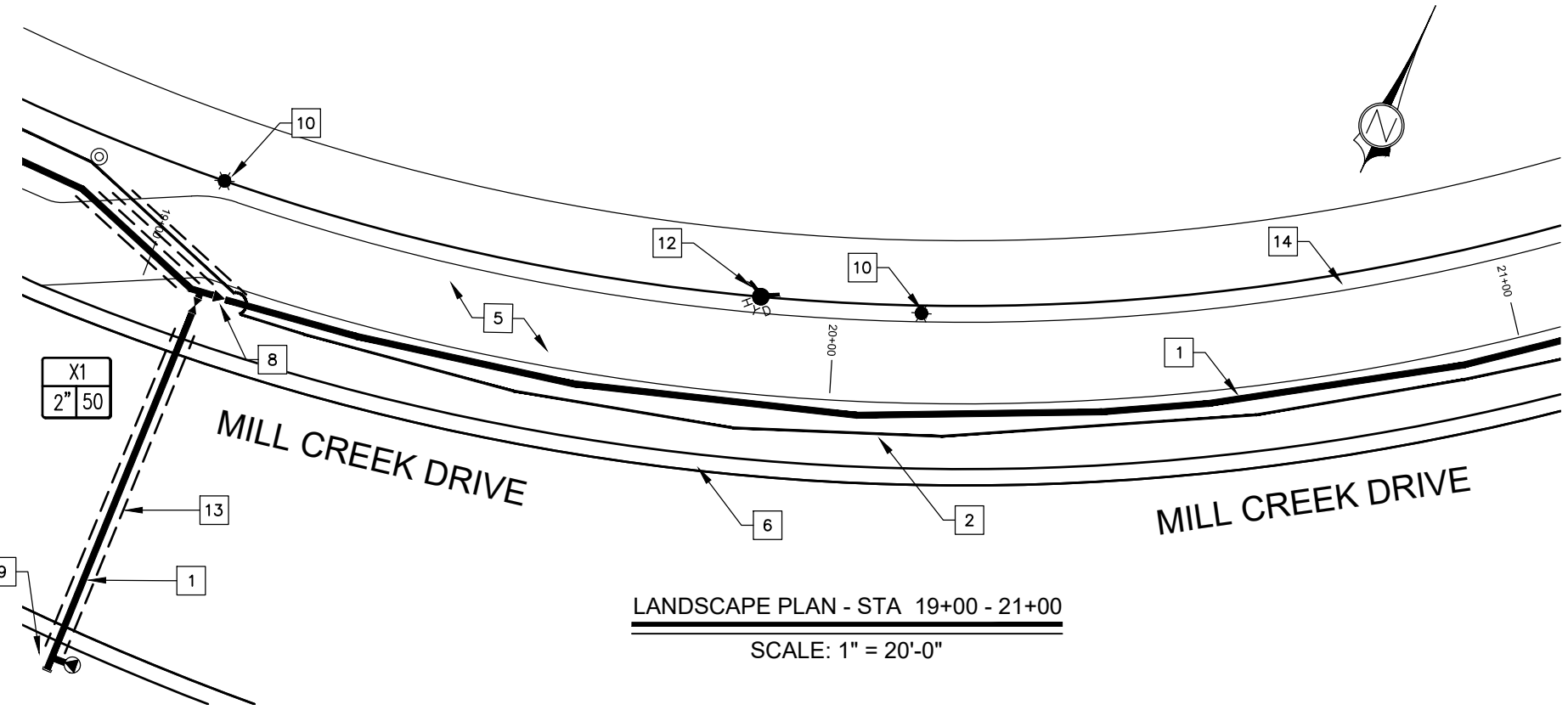
IRRIGATION KEYNOTES:

- 1 2" IRRIGATION MAIN LINE
- 2 IRRIGATION LATERAL - SIZE NOTED
- 3 IRRIGATION DRIP VALVE ASSEMBLY - SEE SHEET XXX FOR DETAIL
- 4 1" IRRIGATION DRIP LINE - TORO BLUE STRIPE HOSE
- 5 SHARED USE CONCRETE TRAIL - SEE SHEET TS1 FOR DETAILS
- 6 24" FLAT CONCRETE CURB - SEE SHEET XXX FOR DETAILS
- 7 STORM DRAIN INLET BOX - SEE APWA STD DETAIL 238
- 8 MANUAL DRAIN VALVE - SEE DETAIL
- 9 CAPPED MAIN LINE FOR EXPANSION
- 10 TRAIL LIGHT BOLLARD & FIXTURE
- 11 STREET LIGHT POLE & FIXTURE
- 12 FIRE HYDRANT ASSEMBLY
- 13 4" PVC CONDUIT
- 14 GRAVEL SHOULDER



IRRIGATION LEGEND

SYMBOL	MANUF.	DESCRIPTION
	RAIN BIRD	CONTROL ZONE KIT, MODEL NO. XCZ-100-PRB-COM
	APPROVED	BALL VALVE, LINE SIZE
	SIGNATURE	1" QUICK COUPLER
	APPROVED	PULL BOX
	APPROVED	MANUAL DRAIN VALVE. INSTALLED AT LOW POINT OF DRIP LINE.
	APPROVED	2" SCH 40 PVC MAINLINE WITH CAP
	APPROVED	SCH 40 PVC LATERAL LINE, SIZE AS NOTED ON THE PLAN
	APPROVED	4" SCH 40 PVC SLEEVE. NUMBER INDICATES NUMBER OF SLEEVES IN THAT LOCATION
	APPROVED	IRRIGATION CONTROLLER WIRE, #14 U.F. WIRE
	TORO	1" BLUE STRIPE HOSE
	TORO	5/8" BROWN DRIP IN@ PC, MODEL NO. PCB1810-12 WITH 1.0 GPH, 12" EMITTER SPACING



LANDSCAPE PLAN - STA 19+00 - 21+00
SCALE: 1" = 20'-0"

PRELIMINARY NOT FOR CONSTRUCTION

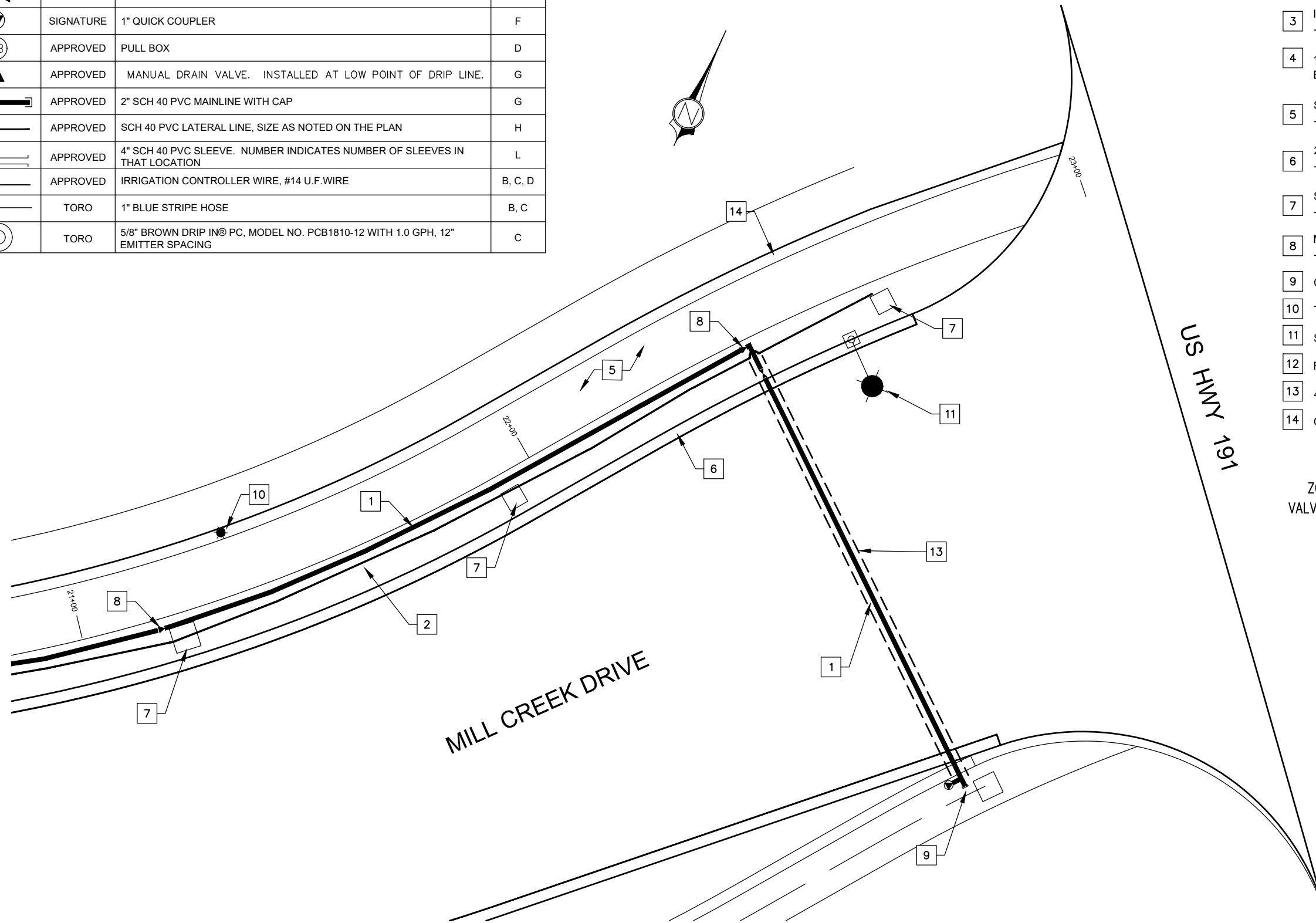
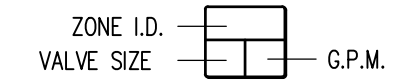
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IRRIGATION LEGEND

SYMBOL	MANUF.	DESCRIPTION	DETAIL
	RAIN BIRD	CONTROL ZONE KIT, MODEL NO. XCZ-100-PRB-COM	I
	APPROVED	BALL VALVE, LINE SIZE	A
	SIGNATURE	1" QUICK COUPLER	F
	APPROVED	PULL BOX	D
	APPROVED	MANUAL DRAIN VALVE. INSTALLED AT LOW POINT OF DRIP LINE.	G
	APPROVED	2" SCH 40 PVC MAINLINE WITH CAP	G
	APPROVED	SCH 40 PVC LATERAL LINE, SIZE AS NOTED ON THE PLAN	H
	APPROVED	4" SCH 40 PVC SLEEVE. NUMBER INDICATES NUMBER OF SLEEVES IN THAT LOCATION	L
	APPROVED	IRRIGATION CONTROLLER WIRE, #14 U.F.WIRE	B, C, D
	TORO	1" BLUE STRIPE HOSE	B, C
	TORO	5/8" BROWN DRIP IN@ PC, MODEL NO. PCB1810-12 WITH 1.0 GPH, 12" EMITTER SPACING	C

IRRIGATION KEYNOTES:

- 1 2" IRRIGATION MAIN LINE
- 2 IRRIGATION LATERAL - SIZE NOTED
- 3 IRRIGATION DRIP VALVE ASSEMBLY
-SEE SHEET XXX FOR DETAIL
- 4 1" IRRIGATION DRIP LINE - TORO
BLUE STRIPE HOSE
- 5 SHARED USE CONCRETE TRAIL
- SEE SHEET TS1 FOR DETAILS
- 6 24" FLAT CONCRETE CURB
- SEE SHEET XXX FOR DETAILS
- 7 STORM DRAIN INLET BOX
- SEE APWA STD DETAIL 238
- 8 MANUAL DRAIN VALVE
- SEE DETAIL
- 9 CAPPED MAIN LINE FOR EXPANSION
- 10 TRAIL LIGHT BOLLARD & FIXTURE
- 11 STREET LIGHT POLE & FIXTURE
- 12 FIRE HYDRANT ASSEMBLY
- 13 4" PVC CONDUIT
- 14 GRAVEL SHOULDER



LANDSCAPE PLAN - STA 21+00 - 22+67

SCALE: 1" = 20'-0"

PRELIMINARY NOT FOR CONSTRUCTION

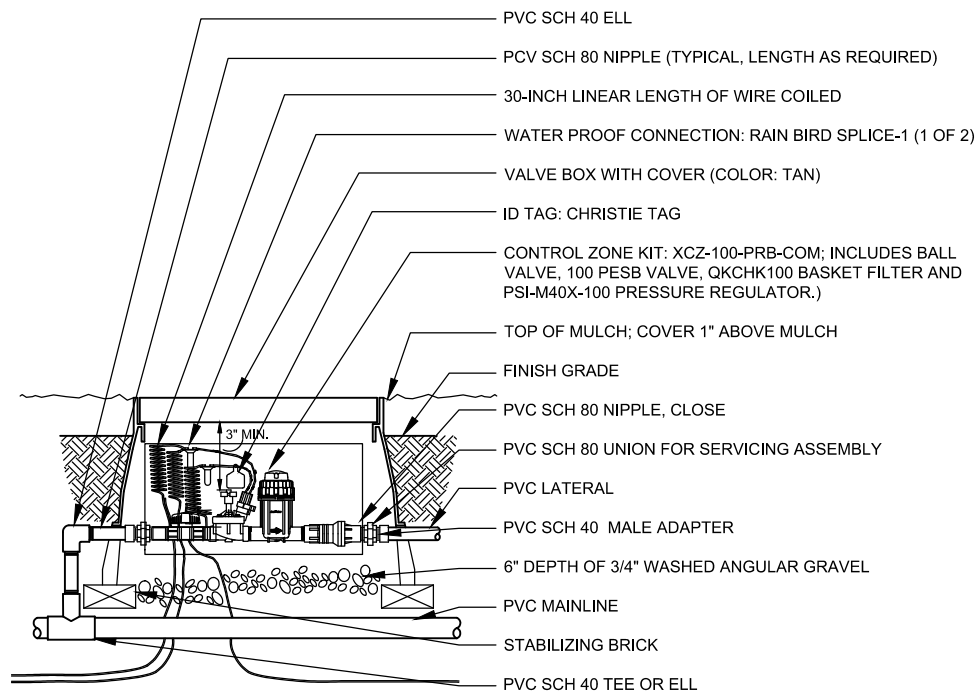
CIVIL SCIENCE
INFRASTRUCTURE, INC.
1453 S. DIXIE DRIVE, SUITE 150
ST. GEORGE, UT 84770
435-986-0100

ENVIRONMENTAL DESIGN STUDIO LLC
LANDSCAPE ARCHITECTURE • PLANNING • GRAPHICS
P.O. Box 541 Washington, UT 84780
Phone: (435)705-1892

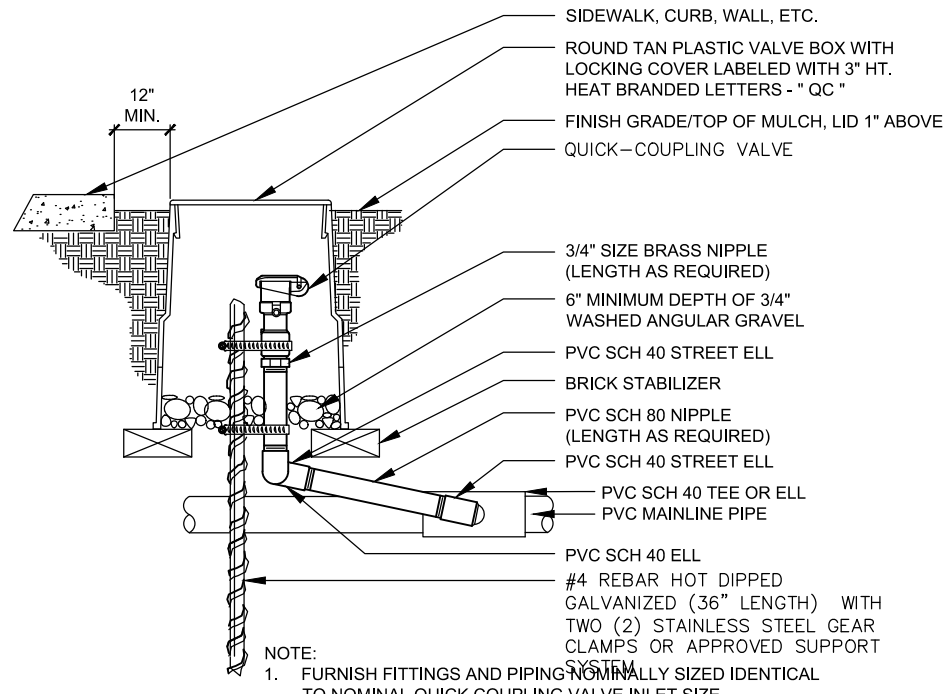
IRRIGATION PLANS
MILL CREEK DRIVE WEST EXTENSION
MOAB, UTAH

PROJ. #: Fx-18127
DRAWN BY: JP
DESIGN BY: JP
CHECKED BY: JKP
SCALE OF SHEET
HOR SCALE: N/A
VER SCALE: N/A

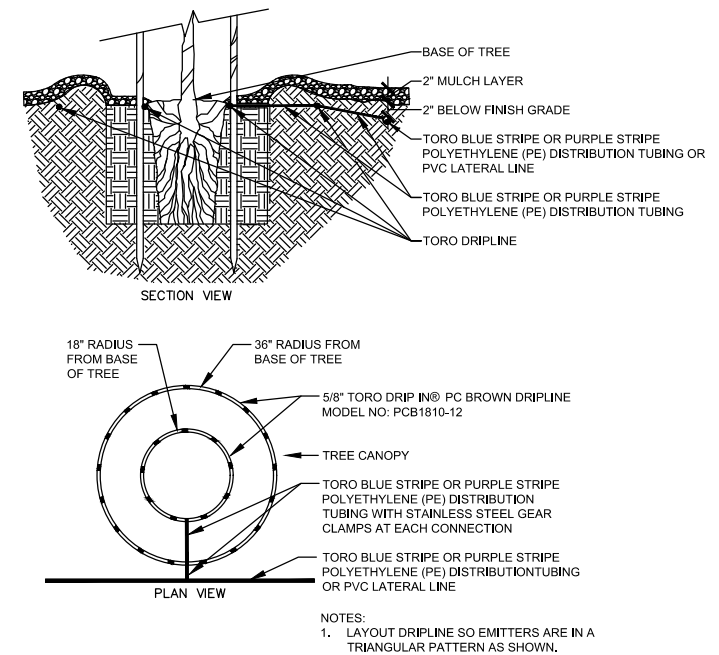
SHEET **IP5**



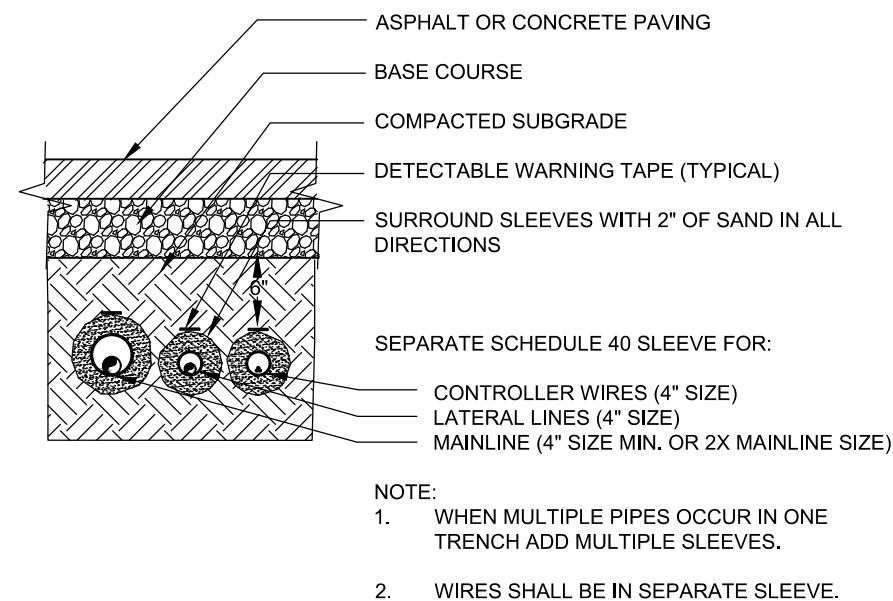
(X) DRIP IRRIGATION CONTROL ZONE & KIT
Not to Scale / Detail Under Development



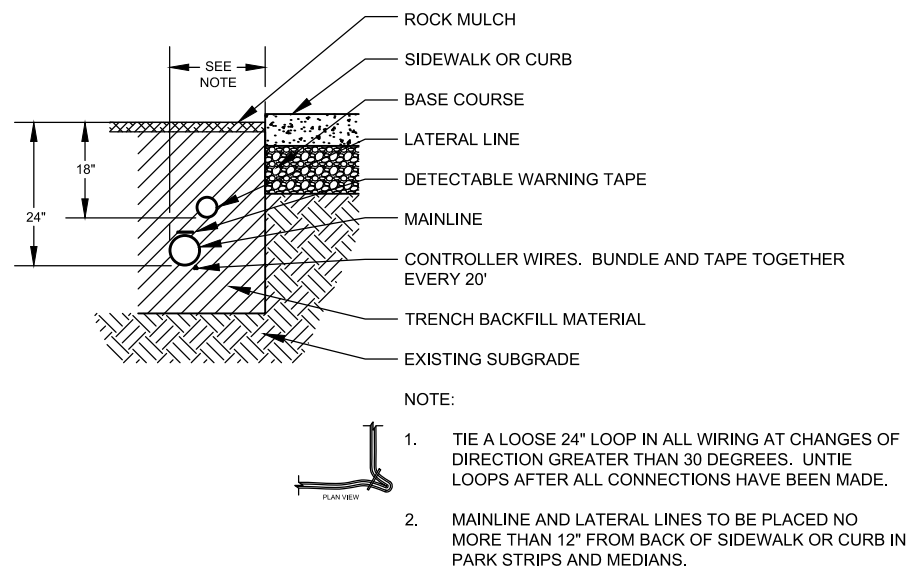
(X) QUICK COUPLER
Not to Scale



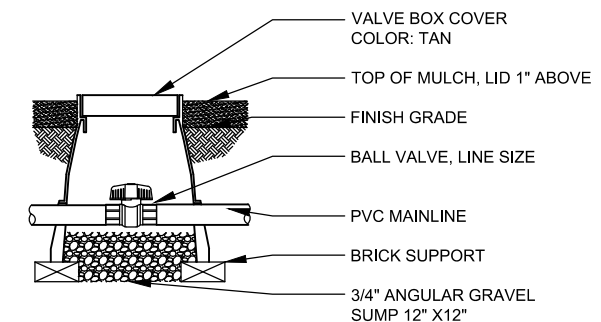
(X) TREE EMITTER LAYOUT
Not to Scale



(X) SLEEVE SECTION
Not to Scale



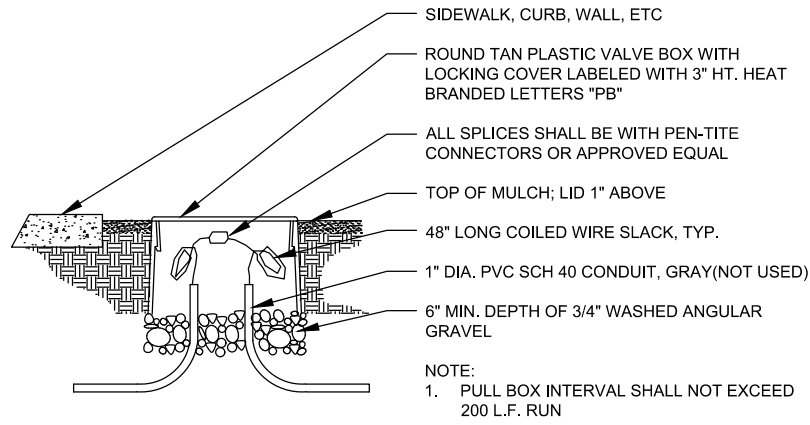
(X) IRRIGATION TRENCH SECTION
Not to Scale



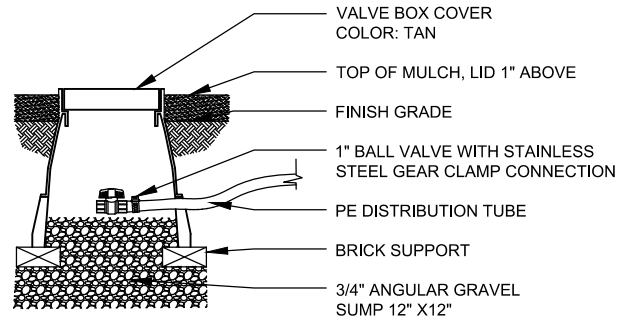
(X) BALL VALVE
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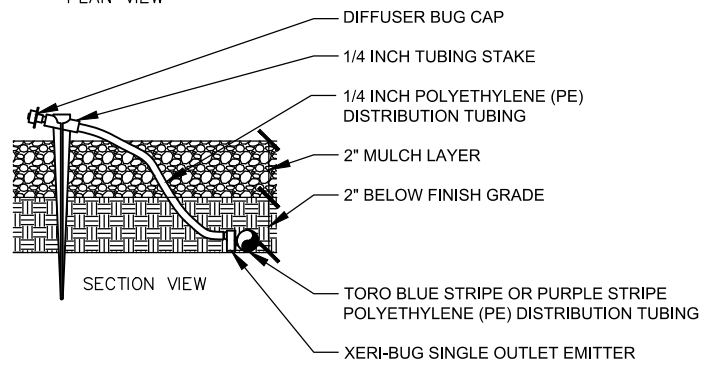
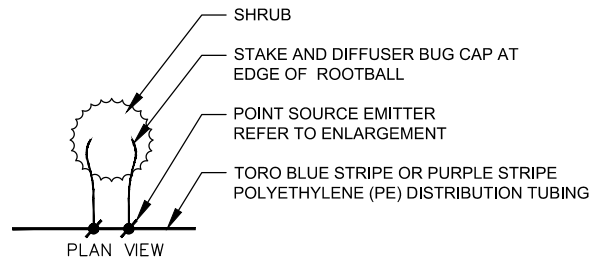


(X) PULL BOX
Not to Scale



(X) MANUAL DRAIN VALVE
Not to Scale

(X) TYPICAL DETAIL
Not to Scale



(X) SHRUB EMITTER LAYOUT
Not to Scale

(X) TYPICAL DETAIL
Not to Scale

(X) TYPICAL DETAIL
Not to Scale

PRELIMINARY NOT FOR CONSTRUCTION

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TYPICAL DETAIL FOR CHECK DAM

TYPICAL DETAIL

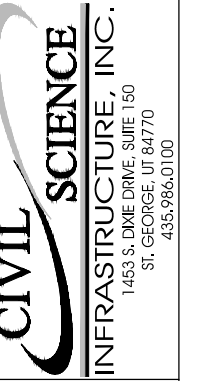
TYPICAL DETAIL

TRENCH DRAIN DETAIL IN LANDSCAPE

TYPICAL DETAIL

TYPICAL DETAIL

PRELIMINARY NOT FOR CONSTRUCTION



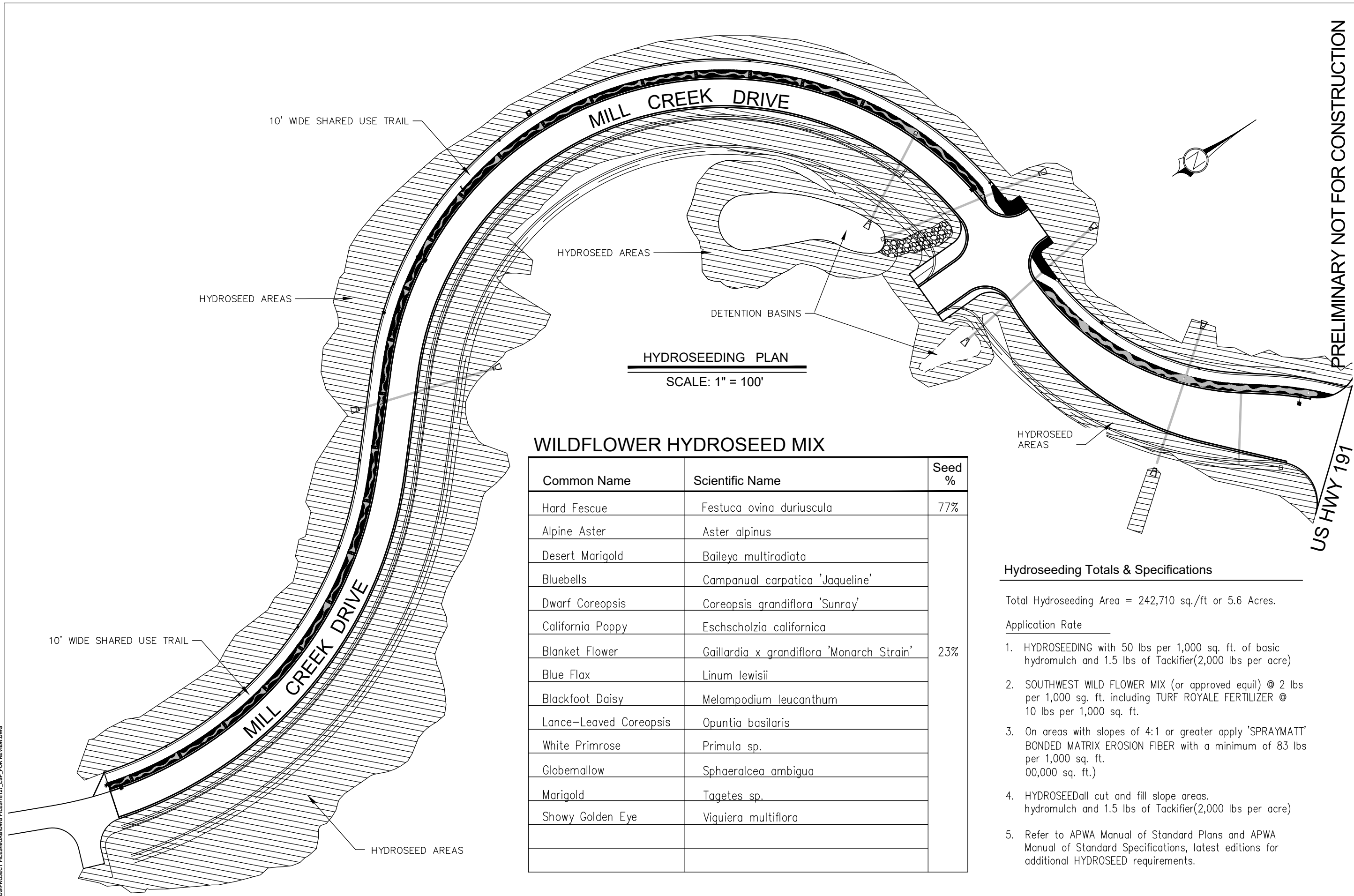
IRRIGATION PLANS

MILL CREEK DRIVE WEST EXTENSION
MOAB, UTAH

PROJ. #: Fx-18127
DRAWN BY: JP
DESIGN BY: JP
CHECKED BY: JKP
SCALE OF SHEET
HOR SCALE: N/A
VER SCALE: N/A

SHEET IP8

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WILDFLOWER HYDROSEED MIX

Common Name	Scientific Name	Seed %
Hard Fescue	<i>Festuca ovina duriuscula</i>	77%
Alpine Aster	<i>Aster alpinus</i>	
Desert Marigold	<i>Baileya multiradiata</i>	
Bluebells	<i>Campanula carpatica 'Jaqueline'</i>	
Dwarf Coreopsis	<i>Coreopsis grandiflora 'Sunray'</i>	
California Poppy	<i>Eschscholzia californica</i>	
Blanket Flower	<i>Gaillardia x grandiflora 'Monarch Strain'</i>	23%
Blue Flax	<i>Linum lewisii</i>	
Blackfoot Daisy	<i>Melampodium leucanthum</i>	
Lance-Leaved Coreopsis	<i>Opuntia basilaris</i>	
White Primrose	<i>Primula sp.</i>	
Globemallow	<i>Sphaeralcea ambigua</i>	
Marigold	<i>Tagetes sp.</i>	
Showy Golden Eye	<i>Viguiera multiflora</i>	

Hydroseeding Totals & Specifications

Total Hydroseeding Area = 242,710 sq./ft or 5.6 Acres.

Application Rate

1. HYDROSEEDING with 50 lbs per 1,000 sq. ft. of basic hydromulch and 1.5 lbs of Tackifier(2,000 lbs per acre)
2. SOUTHWEST WILD FLOWER MIX (or approved equil) @ 2 lbs per 1,000 sq. ft. including TURF ROYALE FERTILIZER @ 10 lbs per 1,000 sq. ft.
3. On areas with slopes of 4:1 or greater apply 'SPRAYMATT' BONDED MATRIX EROSION FIBER with a minimum of 83 lbs per 1,000 sq. ft. (00,000 sq. ft.)
4. HYDROSEED all cut and fill slope areas. hydromulch and 1.5 lbs of Tackifier(2,000 lbs per acre)
5. Refer to APWA Manual of Standard Plans and APWA Manual of Standard Specifications, latest editions for additional HYDROSEED requirements.

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HYDROSEEDING PLAN

MILL CREEK DRIVE WEST EXTENSION
 MOAB, UTAH