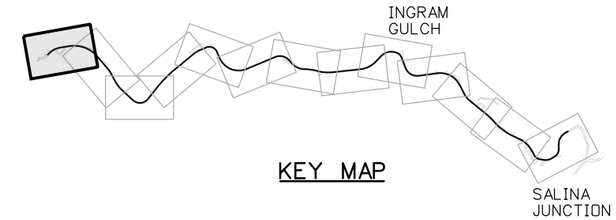

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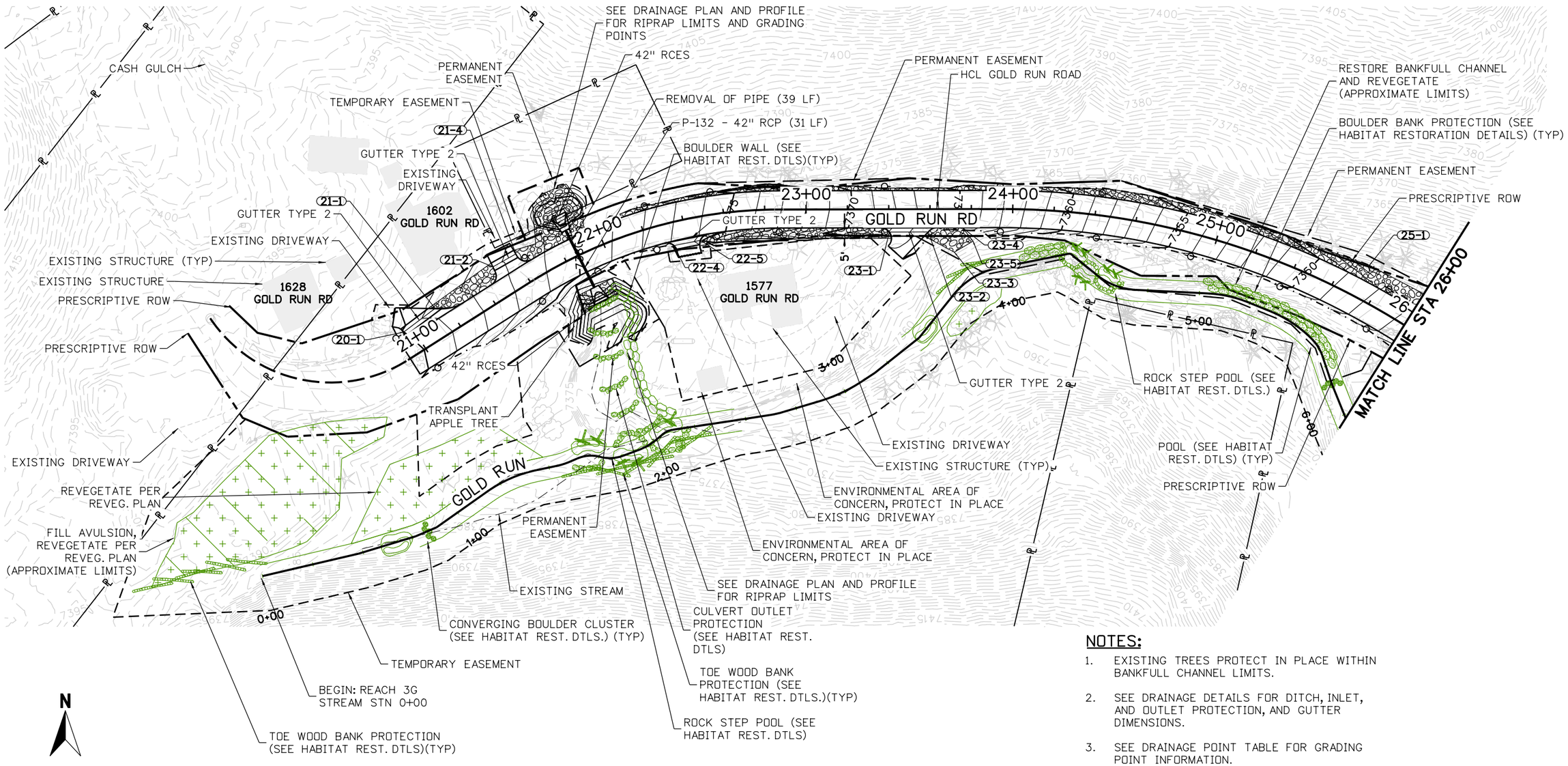


NOTES:

1. EXISTING TREES PROTECT IN PLACE WITHIN BANKFULL CHANNEL LIMITS.
2. SEE DRAINAGE DETAILS FOR DITCH, INLET, AND OUTLET PROTECTION, AND GUTTER DIMENSIONS.
3. SEE DRAINAGE POINT TABLE FOR GRADING POINT INFORMATION.

100% SET

CALL UTILITY NOTIFICATION CENTER OF COLORADO
811
CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES

REVISIONS:	NO.	DATE	REVISION DESCRIPTION:

Boulder County

BOULDER COUNTY TRANSPORTATION DEPARTMENT
ENGINEERING DIVISION

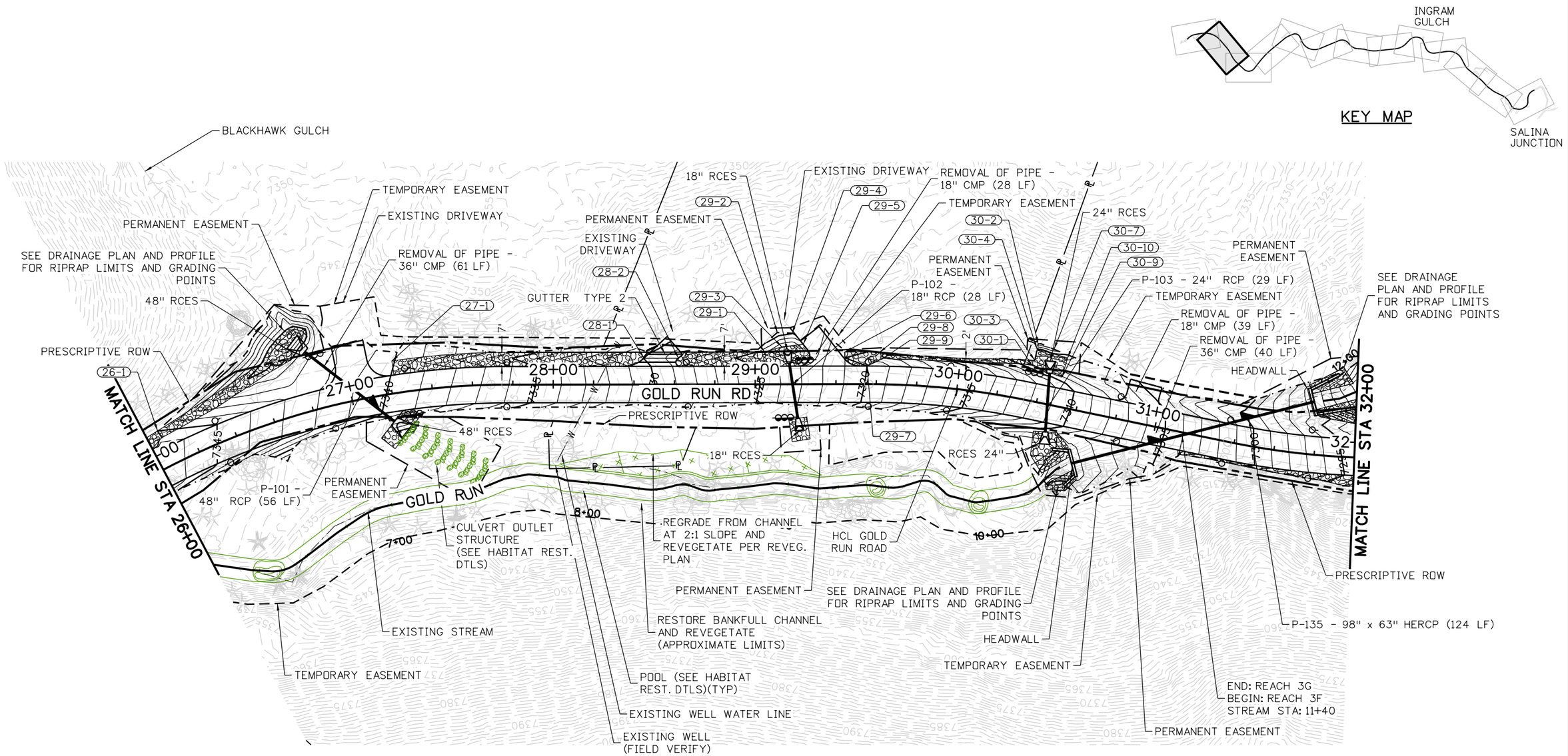
Michael Baker INTERNATIONAL

DESIGNED:	CAD:	CHECKED:	DATE:
JLW	EMR	SLS	12/23/16

GOLD RUN ROAD
DRAINAGE PLAN
(SHEET 1 OF 13)

PROJECT NO: 4011.SEPT12C38 | SHEET NO: 118

jessica.wroy 5:29:32 PM 12/21/2016 pw:\\DCPWAPP1.bkr.mbakercorp.com:pwprod\Documents\Projects\Lakewood_Office\Boulder_County_Emergency_Transportation\T02\08_Sheet_Files\02_Hydraulics\DGN\DR-01.dgn



NOTES:

1. EXISTING TREES PROTECT IN PLACE WITHIN BANKFULL CHANNEL LIMITS.
2. SEE DRAINAGE DETAILS FOR DITCH, INLET, AND OUTLET PROTECTION, AND GUTTER DIMENSIONS.
3. SEE CULVERT END DETAILS FOR WINGWALL AND HEADWALL DIMENSIONS AND DETAILS.
4. SEE DRAINAGE POINT TABLE FOR GRADING POINT INFORMATION.

N

25 0 25 50 FT
HORIZONTAL SCALE: 1"=50'

100% SET

CALL UTILITY NOTIFICATION CENTER OF COLORADO
811
CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES

REVISIONS: NO.	DATE	REVISION DESCRIPTION:

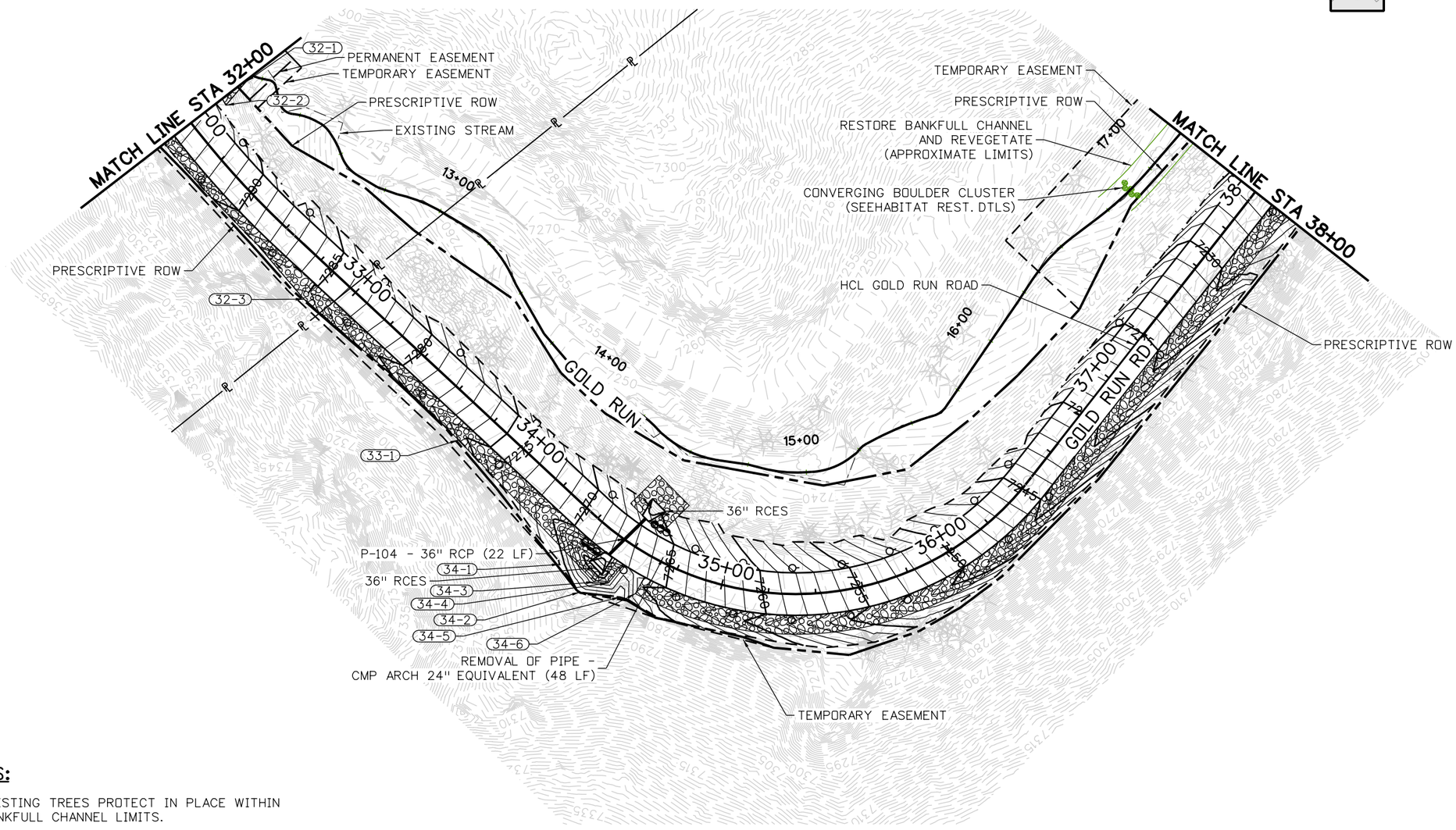
BOULDER COUNTY TRANSPORTATION DEPARTMENT
ENGINEERING DIVISION
Boulder County
Michael Baker INTERNATIONAL

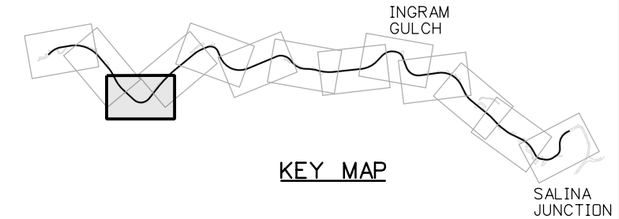
DESIGNED:	CAD:	CHECKED:	DATE:
JLW	EMR	SLS	12/23/16

GOLD RUN ROAD
DRAINAGE PLAN (SHEET 2 OF 13)

PROJECT NO: 4011.SEPT12C38 | SHEET NO: 119

jessica.wroy 5:30:01 PM 12/21/2016 pw:\\DCPWAPP1bkr.mbakercorp.com:pwprod\Documents\Projects\Lakewood_Office\Boulder_County_Emergency_Transportation\T02\08_Sheet_Files\02_Hydraulics\DGN\DR-02.dgn





KEY MAP

NOTES:

1. EXISTING TREES PROTECT IN PLACE WITHIN BANKFULL CHANNEL LIMITS.
2. SEE DRAINAGE DETAILS FOR DITCH, INLET, AND OUTLET PROTECTION.
3. SEE DRAINAGE POINT TABLE FOR GRADING POINT INFORMATION.

N

25 0 25 50 FT
HORIZONTAL SCALE: 1"=50'

100% SET

CALL UTILITY NOTIFICATION CENTER OF COLORADO
811
CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES

REVISIONS:	NO.	DATE	REVISION DESCRIPTION:

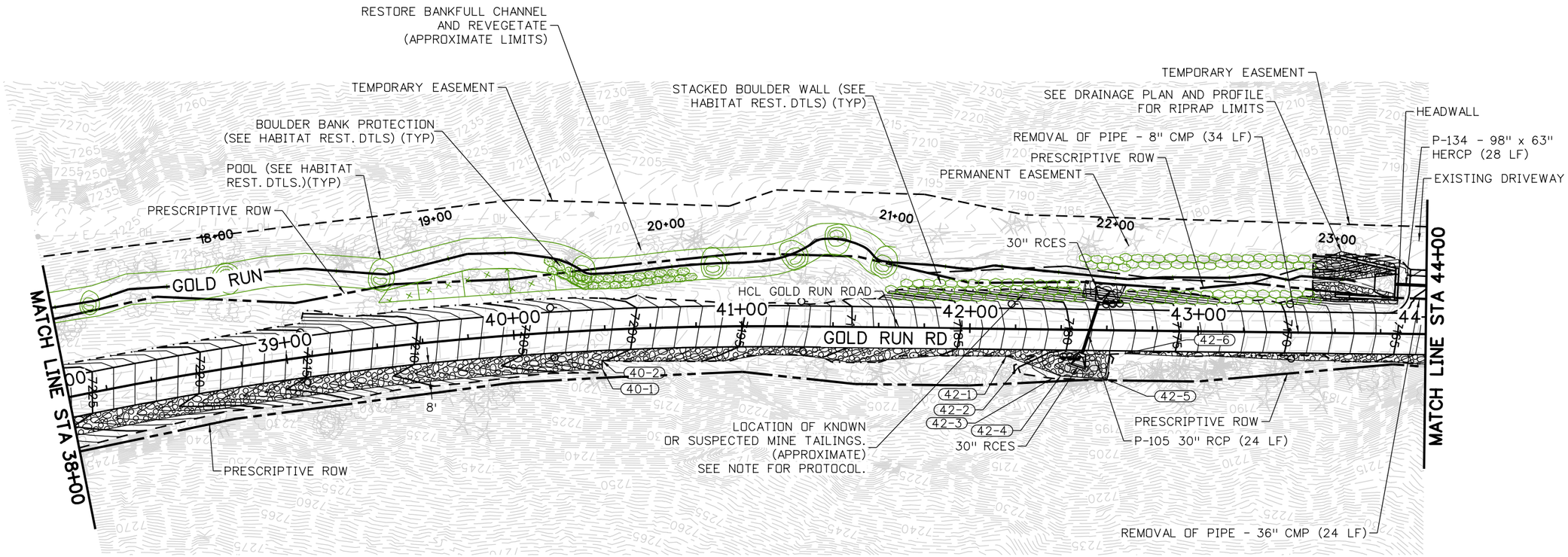
BOULDER COUNTY TRANSPORTATION DEPARTMENT
ENGINEERING DIVISION
Boulder County
Michael Baker INTERNATIONAL

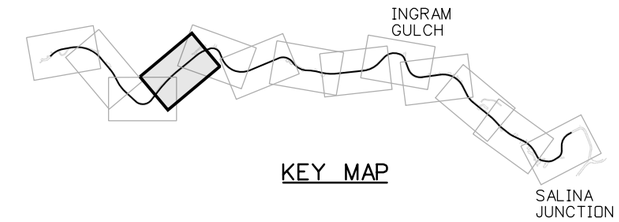
DESIGNED:	CAD:	CHECKED:	DATE:
JLW	EMR	SLS	12/23/16

GOLD RUN ROAD
DRAINAGE PLAN
(SHEET 3 OF 13)

PROJECT NO: 4011.SEPT12C38 | SHEET NO: 120

jessica.wroy 5:30:29 PM 12/21/2016 pw:\\DCPWAPP1.bkr.mbakercorp.com:pwprod\Documents\Projects\Lakewood_Office\Boulder_County_Emergency_Transportation\T02\08_Sheet_Files\02_Hydraulics\DGN\DR-03.dgn





KEY MAP

NOTES:

1. EXISTING TREES PROTECT IN PLACE WITHIN BANKFULL CHANNEL LIMITS.
2. SEE DRAINAGE DETAILS FOR DITCH, INLET, AND OUTLET PROTECTION.
3. SEE CULVERT END DETAILS FOR WINGWALL AND HEADWALL DIMENSIONS AND DETAILS.
4. SEE DRAINAGE POINT TABLE FOR GRADING POINT INFORMATION.

N

25 0 25 50 FT
HORIZONTAL SCALE: 1"=50'

100% SET

CALL UTILITY NOTIFICATION CENTER OF COLORADO
CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES

REVISIONS: NO.	DATE	REVISION DESCRIPTION:

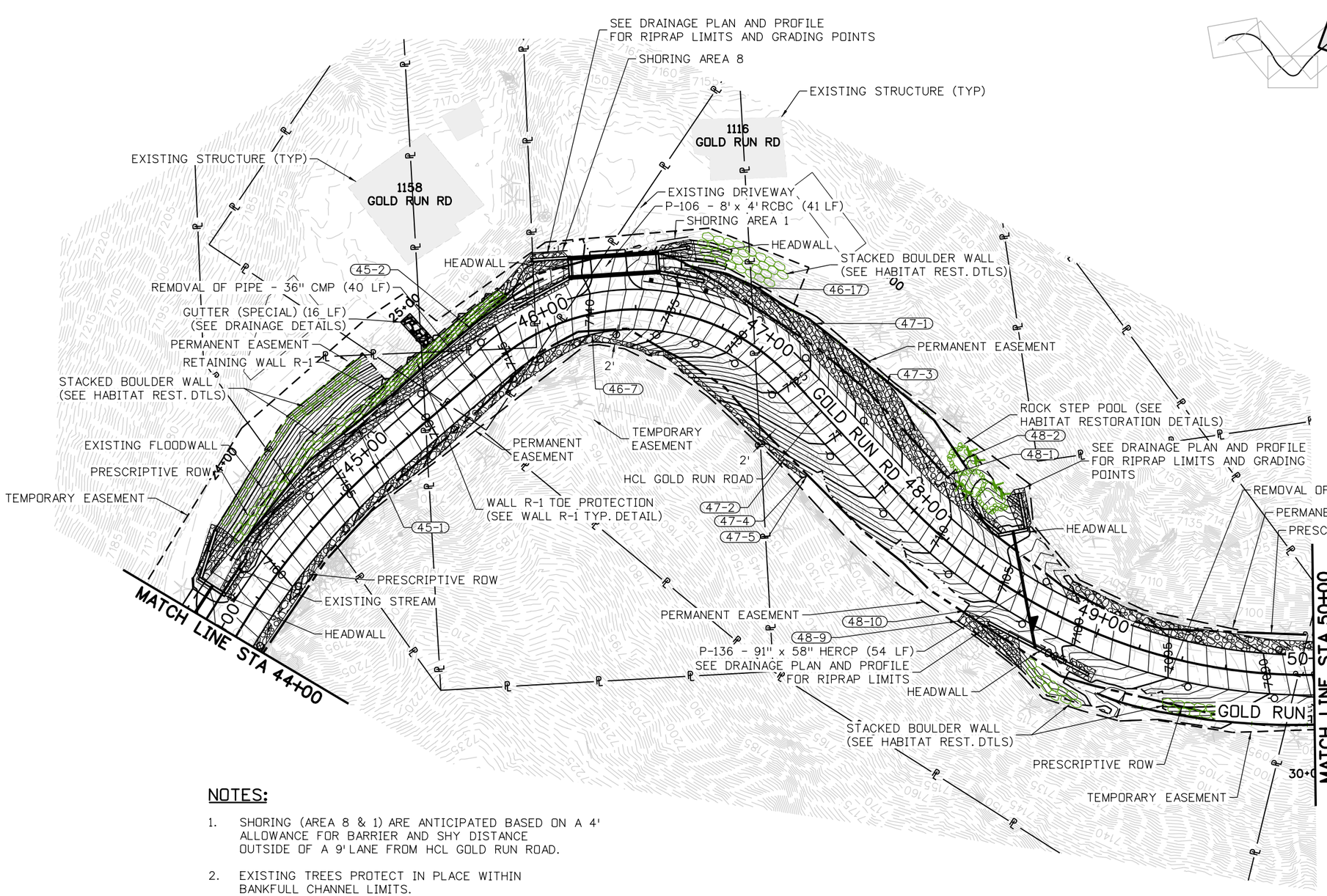
BOULDER COUNTY TRANSPORTATION DEPARTMENT
ENGINEERING DIVISION
Michael Baker INTERNATIONAL

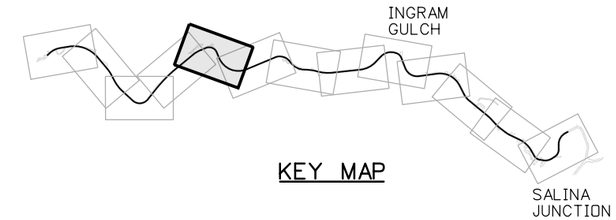
DESIGNED:	CAD:	CHECKED:	DATE:
JLW	EMR	SLS	12/23/16

GOLD RUN ROAD
DRAINAGE PLAN (SHEET 4 OF 13)

PROJECT NO: 4043.SEPT12C38 | SHEET NO: 121

jessica.wroy 5:30:56 PM 12/21/2016 pw:\\DCPWAPP1.bkr.mbakercorp.com:pwprod\Documents\Projects\Lakewood_Office\Boulder_County_Emergency_Transportation\T02\08_Sheet_Files\02_Hydraulics\DGN\DR-04.dgn





KEY MAP

NOTES:

1. SHORING (AREA 8 & 1) ARE ANTICIPATED BASED ON A 4' ALLOWANCE FOR BARRIER AND SHY DISTANCE OUTSIDE OF A 9' LANE FROM HCL GOLD RUN ROAD.
2. EXISTING TREES PROTECT IN PLACE WITHIN BANKFULL CHANNEL LIMITS.
3. SEE DRAINAGE DETAILS FOR DITCH, INLET, AND OUTLET PROTECTION.
4. SEE CULVERT END DETAILS FOR WINGWALL AND HEADWALL DIMENSIONS AND DETAILS.
5. SEE DRAINAGE POINT TABLE FOR GRADING POINT INFORMATION.

N

25 0 25 50 FT
HORIZONTAL SCALE: 1"=50'

100% SET

CALL UTILITY NOTIFICATION CENTER OF COLORADO
811
CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES

REVISIONS:	NO.	DATE	REVISION DESCRIPTION:

Boulder County

Michael Baker INTERNATIONAL

BOULDER COUNTY TRANSPORTATION DEPARTMENT
ENGINEERING DIVISION

DESIGNED:	CAD:	CHECKED:	DATE:
JLW	EMR	SLS	12/23/16

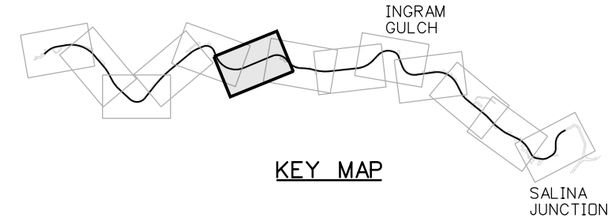
GOLD RUN ROAD
DRAINAGE PLAN (SHEET 5 OF 13)

PROJECT NO: 4011.SEPT12C38 SHEET NO: 122

jessica.wray 5:31:23 PM 12/21/2016 pw:\\DCPWAPP1.bkr.mbakercorp.com:pwprod\Documents\Projects\Lakewood_Office\Boulder_County_Emergency_Transportation\T02\08_Sheet_Files\02_Hydraulics\DGN\DR-05.dgn

NOTES:

1. SHORING (AREA 2, 3 & 4) IS ANTICIPATED BASED ON A 4' ALLOWANCE FOR BARRIER AND SHY DISTANCE OUTSIDE OF A 9' LANE FROM HCL GOLD RUN ROAD.
2. EXISTING TREES PROTECT IN PLACE WITHIN BANKFULL CHANNEL LIMITS.
3. SEE DRAINAGE DETAILS FOR DITCH, INLET, AND OUTLET PROTECTION.
4. SEE CULVERT END DETAILS FOR WINGWALL AND HEADWALL DIMENSIONS AND DETAILS.
5. SEE DRAINAGE POINT TABLE FOR GRADING POINT INFORMATION.



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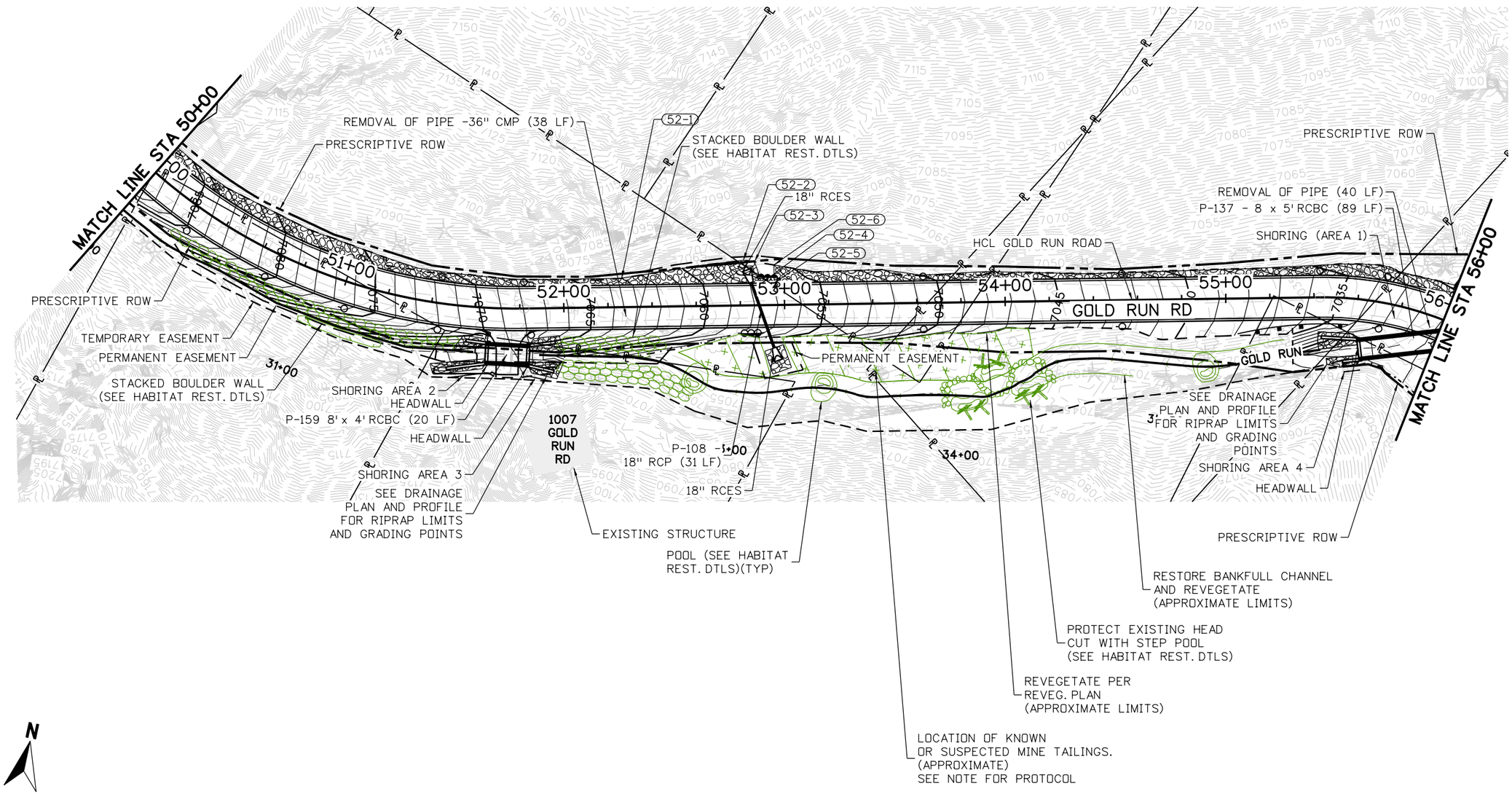


100% SET

CALL UTILITY NOTIFICATION CENTER OF COLORADO
811
CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES

REVISIONS:	NO.	DATE	REVISION DESCRIPTION:

Boulder County

Michael Baker INTERNATIONAL

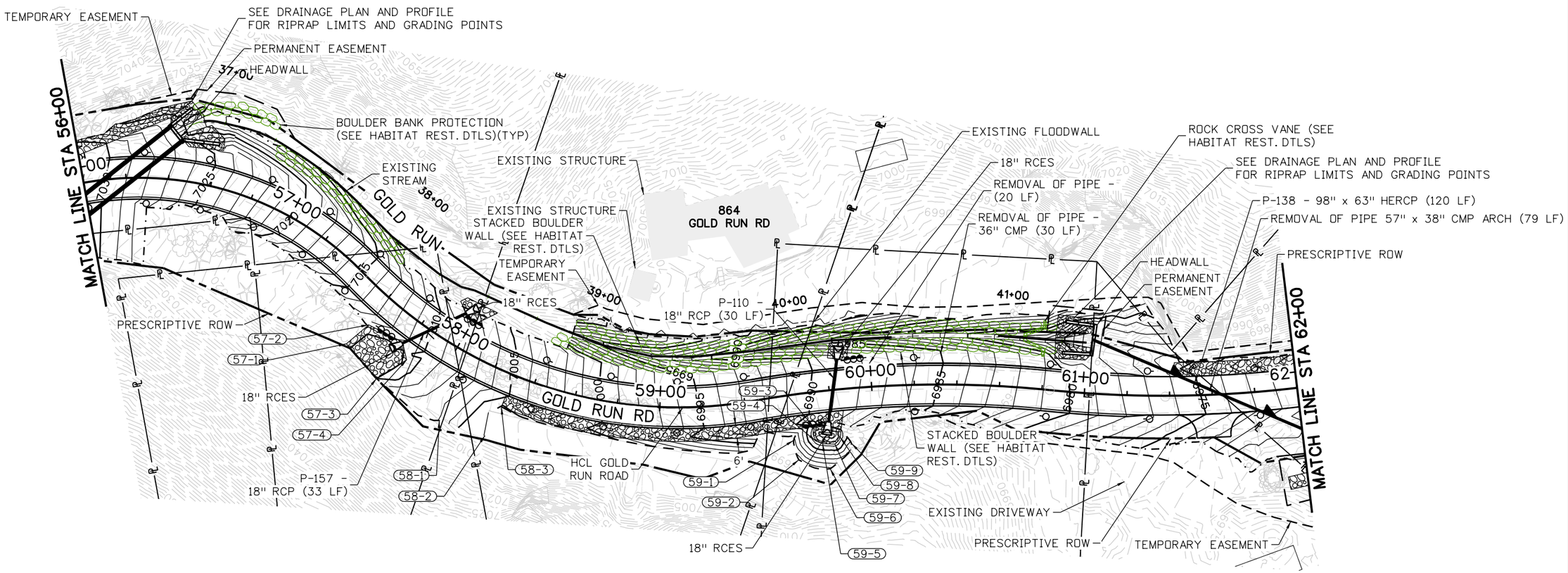
BOULDER COUNTY TRANSPORTATION DEPARTMENT
ENGINEERING DIVISION

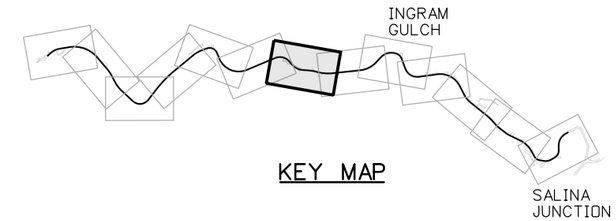
DESIGNED:	CAD:	CHECKED:	DATE:
JLW	EMR	SLS	12/23/16

GOLD RUN ROAD
DRAINAGE PLAN (SHEET 6 OF 13)

PROJECT NO: 4011.SEPT12C38 | SHEET NO: 123

jessica.wray 6:19:07 PM 12/21/2016 pw:\\DCPWAPP1.bkr.mbakercorp.com:pwprod\Documents\Projects\Lakewood_Office\Boulder_County_Emergency_Transportation\T02\08_Sheet_Files\02_Hydraulics\DGN\DR-06.dgn





NOTES:

1. EXISTING TREES PROTECT IN PLACE WITHIN BANKFULL CHANNEL LIMITS.
2. SEE DRAINAGE DETAILS FOR DITCH, INLET, AND OUTLET PROTECTION.
3. SEE CULVERT END DETAILS FOR WINGWALL AND HEADWALL DIMENSIONS AND DETAILS.
4. SEE DRAINAGE POINT TABLE FOR GRADING POINT INFORMATION.

N

25 0 25 50 FT
HORIZONTAL SCALE: 1"=50'

100% SET

CALL UTILITY NOTIFICATION CENTER OF COLORADO
811
CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES

REVISIONS:	NO.	DATE	REVISION DESCRIPTION:

Boulder County
Michael Baker INTERNATIONAL

BOULDER COUNTY TRANSPORTATION DEPARTMENT
ENGINEERING DIVISION

DESIGNED:	CAD:	CHECKED:	DATE:
JLW	EMR	SLS	12/23/16

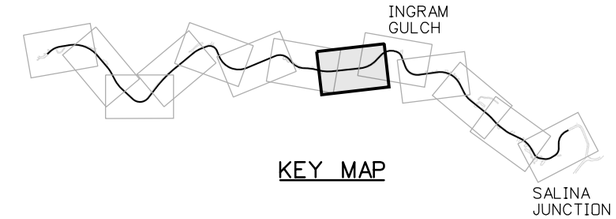
GOLD RUN ROAD
DRAINAGE PLAN
(SHEET 7 OF 13)

PROJECT NO: 4011.SEPT12C38 SHEET NO: 124

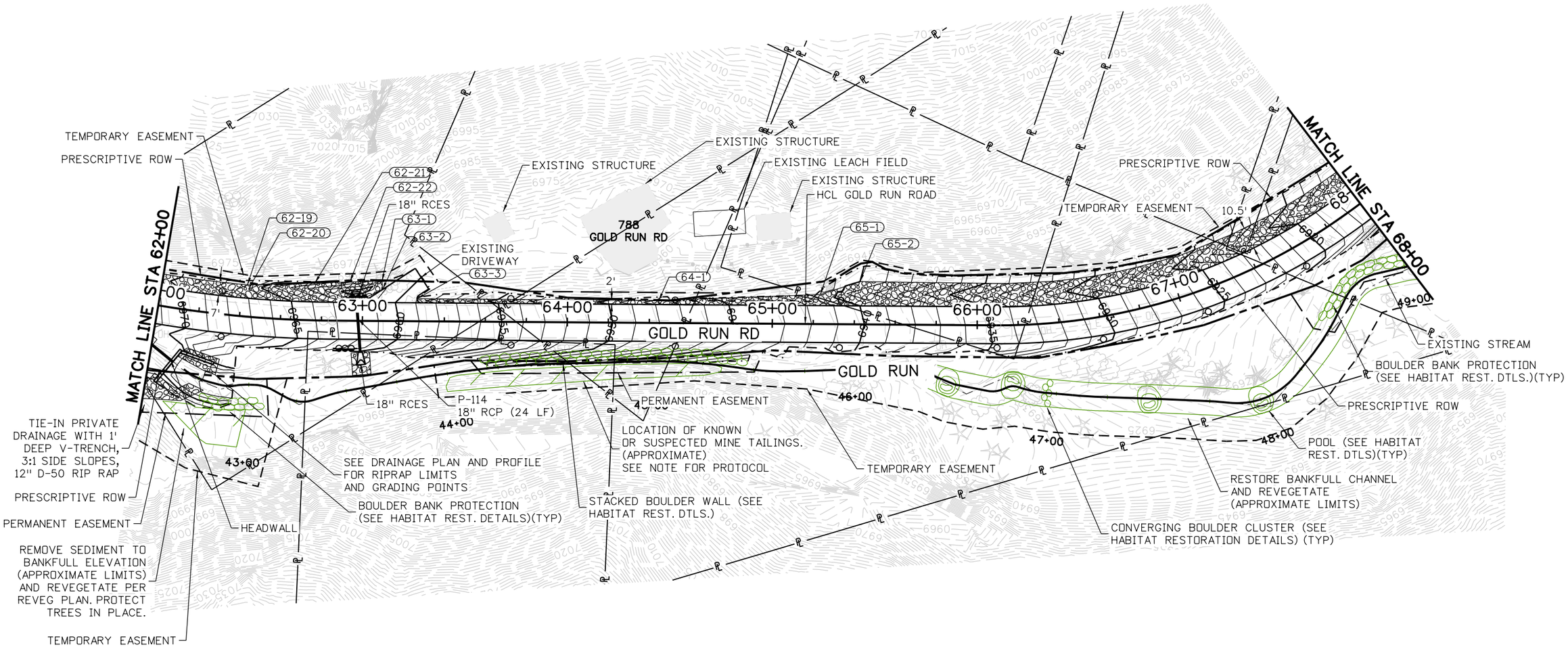
jessica.wray 6:19:30 PM 12/21/2016 pw:\\DCPWAPP1.bkr.mbakercorp.com:pwprod\Documents\Projects\Lakewood_Office\Boulder_County_Emergency_Transportation\T02\08_Sheet_Files\02_Hydraulics\DGN\DR-07.dgn

NOTES:

1. EXISTING TREES PROTECT IN PLACE WITHIN BANKFULL CHANNEL LIMITS.
2. SEE DRAINAGE DETAILS FOR DITCH, INLET, AND OUTLET PROTECTION.
3. SEE CULVERT END DETAILS FOR WINGWALL AND HEADWALL DIMENSIONS AND DETAILS.



KEY MAP



100% SET

CALL UTILITY NOTIFICATION CENTER OF COLORADO
811
CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES

REVISIONS:	NO.	DATE	REVISION DESCRIPTION:

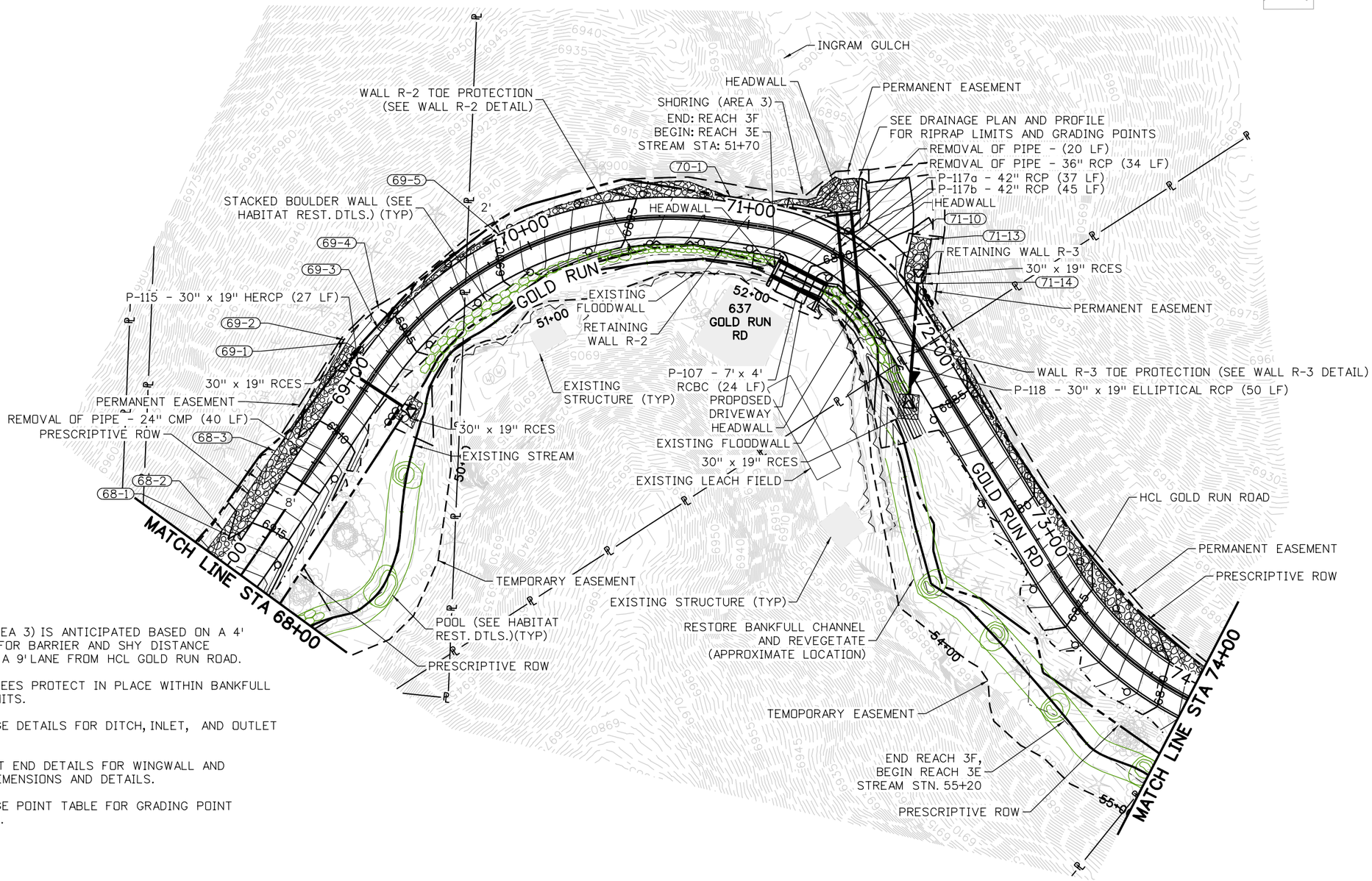
BOULDER COUNTY TRANSPORTATION DEPARTMENT
ENGINEERING DIVISION
Boulder County
Michael Baker INTERNATIONAL

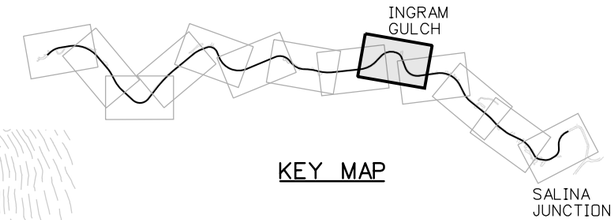
DESIGNED:	CAD:	CHECKED:	DATE:
JLW	EMR	SLS	12/23/16

GOLD RUN ROAD
DRAINAGE PLAN (SHEET 8 OF 13)

PROJECT NO: 4011.SEPT12C38 | SHEET NO: 125

jessica.wray 6:19:52 PM 12/21/2016 pw:\\DCPWAPP1.bkr.mbakercorp.com:pwprod\Documents\Projects\Lakewood_Office\Boulder_County_Emergency_Transportation\T02\08_Sheet_Files\02_Hydraulics\DGN\DR-08.dgn





KEY MAP

NOTES:

1. SHORING (AREA 3) IS ANTICIPATED BASED ON A 4' ALLOWANCE FOR BARRIER AND SHY DISTANCE OUTSIDE OF A 9' LANE FROM HCL GOLD RUN ROAD.
2. EXISTING TREES PROTECT IN PLACE WITHIN BANKFULL CHANNEL LIMITS.
3. SEE DRAINAGE DETAILS FOR DITCH, INLET, AND OUTLET PROTECTION.
4. SEE CULVERT END DETAILS FOR WINGWALL AND HEADWALL DIMENSIONS AND DETAILS.
5. SEE DRAINAGE POINT TABLE FOR GRADING POINT INFORMATION.

N

25 0 25 50 FT
HORIZONTAL SCALE: 1"=50'

100% SET

CALL UTILITY NOTIFICATION CENTER OF COLORADO
811
CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES

REVISIONS:	NO.	DATE	REVISION DESCRIPTION:

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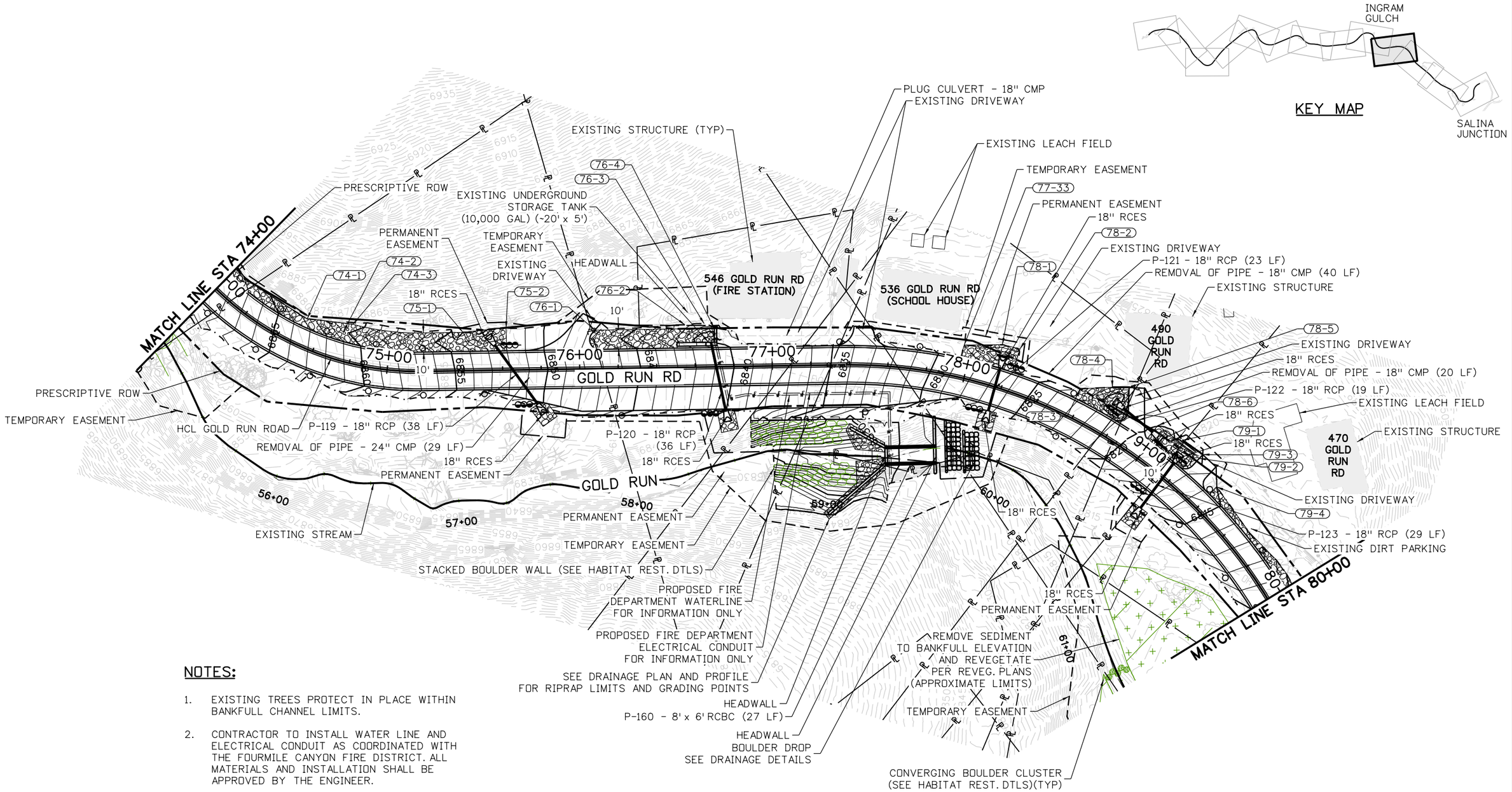
ENGINEERING DIVISION
Boulder County
Michael Baker INTERNATIONAL

DESIGNED:	CAD:	CHECKED:	DATE:
JLW	EMR	SLS	12/23/16

GOLD RUN ROAD
DRAINAGE PLAN
(SHEET 9 OF 13)

PROJECT NO: 4011.SEPT12C38 | SHEET NO: 126

jessica.wrcy 6:20:14 PM 12/21/2016 pw:\\DCPWAPP1.bkr.mbakercorp.com:pwprod\Documents\Projects\Lakewood_Office\Boulder_County_Emergency_Transportation\T02\08_Sheet_Files\02_Hydraulics\DGN\DR-09.dgn



NOTES:

1. EXISTING TREES PROTECT IN PLACE WITHIN BANKFULL CHANNEL LIMITS.
2. CONTRACTOR TO INSTALL WATER LINE AND ELECTRICAL CONDUIT AS COORDINATED WITH THE FOURMILE CANYON FIRE DISTRICT. ALL MATERIALS AND INSTALLATION SHALL BE APPROVED BY THE ENGINEER.
3. SEE DRAINAGE DETAILS FOR DITCH, INLET, AND OUTLET PROTECTION.
4. SEE CULVERT END DETAILS FOR WINGWALL AND HEADWALL DIMENSIONS AND DETAILS.
5. SEE DRAINAGE POINT TABLE FOR GRADING POINT INFORMATION.

100% SET

CALL UTILITY NOTIFICATION CENTER OF COLORADO
811
CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES

REVISIONS:	NO.	DATE	REVISION DESCRIPTION:

Boulder County

BOULDER COUNTY TRANSPORTATION DEPARTMENT
ENGINEERING DIVISION

Michael Baker INTERNATIONAL

DESIGNED:	CAD:	CHECKED:	DATE:
JLW	EMR	SLS	12/23/16

GOLD RUN ROAD
DRAINAGE PLAN
(SHEET 10 OF 13)

PROJECT NO: 4011.SEPT12C38 | SHEET NO: 127

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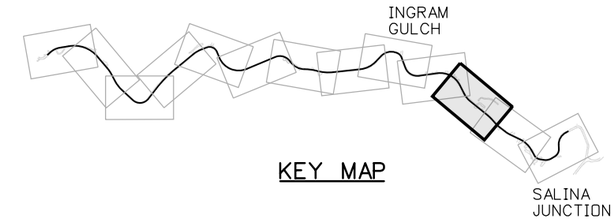
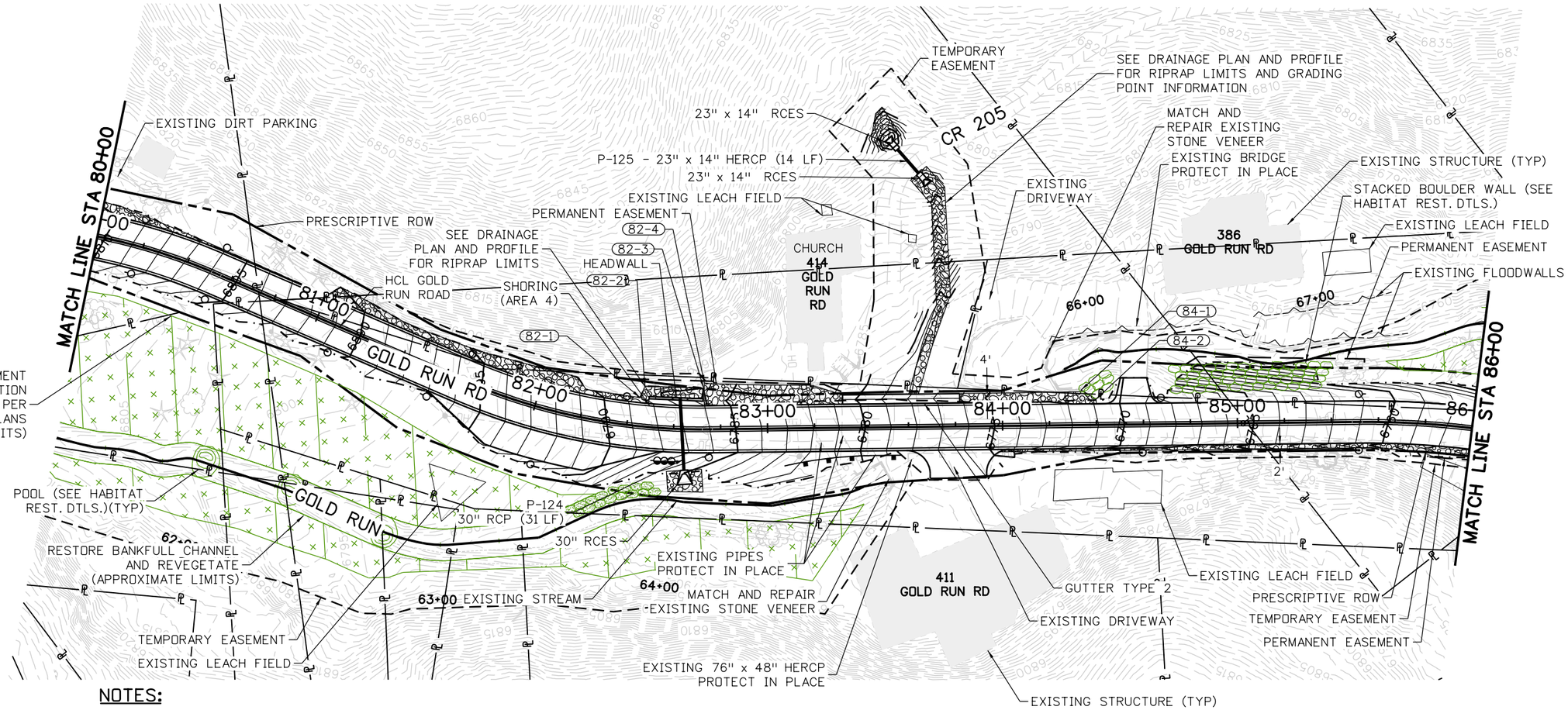


KEY MAP



NOTES:

1. SHORING (AREA 4) IS ANTICIPATED BASED ON A 4' ALLOWANCE FOR BARRIER AND SHY DISTANCE OUTSIDE OF A 9' LANE FROM HCL GOLD RUN RD.
2. EXISTING TREES PROTECT IN PLACE WITHIN BANKFULL CHANNEL LIMITS.
3. SEE DRAINAGE DETAILS FOR DITCH, INLET, AND OUTLET PROTECTION, AND GUTTER DIMENSIONS.
4. SEE CULVERT END DETAILS FOR WINGWALL AND HEADWALL DIMENSIONS AND DETAILS.
5. SEE DRAINAGE POINT TABLE FOR GRADING POINT INFORMATION.

N

25 0 25 50 FT
HORIZONTAL SCALE: 1"=50'

100% SET

CALL UTILITY NOTIFICATION CENTER OF COLORADO
811
CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES

REVISIONS:	NO.	DATE	REVISION DESCRIPTION:

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ENGINEERING DIVISION
Boulder County
Michael Baker INTERNATIONAL

DESIGNED:	CAD:	CHECKED:	DATE:
JLW	EMR	SLS	12/23/16

GOLD RUN ROAD
DRAINAGE PLAN (SHEET 11 OF 13)

PROJECT NO: 4011.SEPT12C38 SHEET NO: 128

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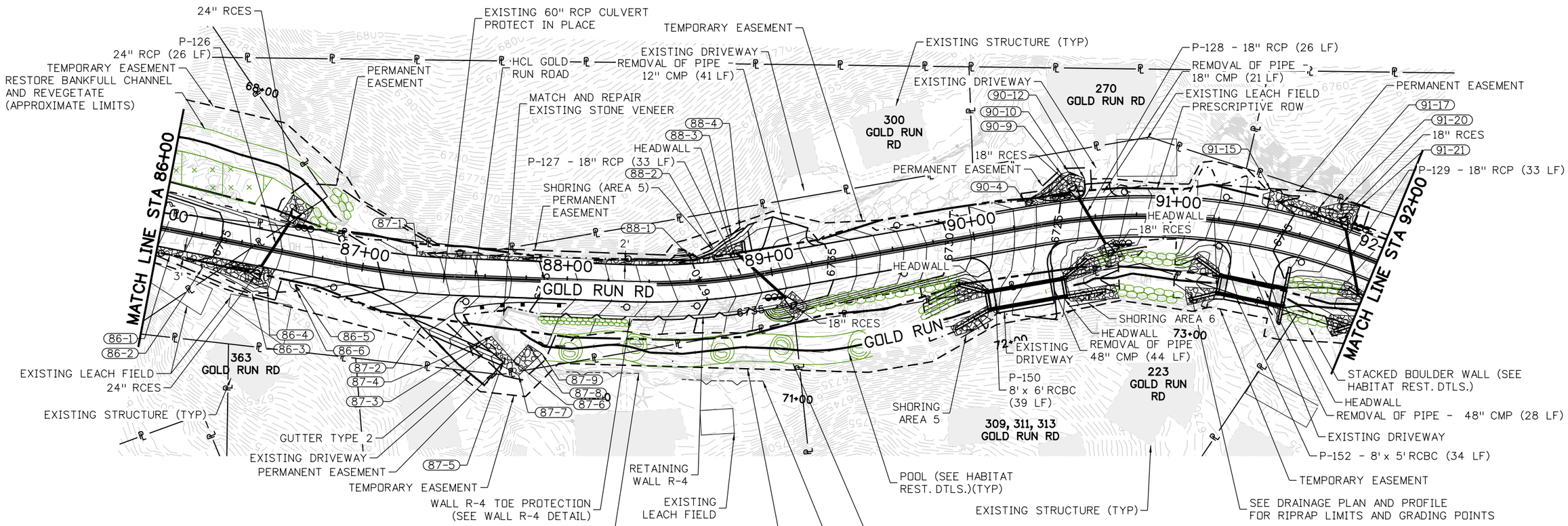
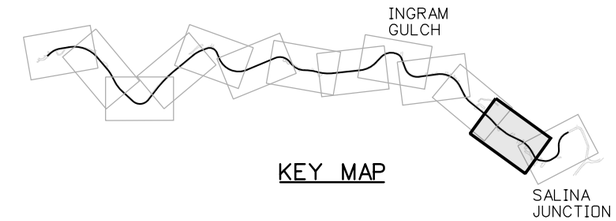




KEY MAP

NOTES:

1. SHORING (AREA 5 & 6) IS ANTICIPATED BASED ON A 4' ALLOWANCE FOR BARRIER AND SHY DISTANCE OUTSIDE OF A 9' LANE FROM HCL GOLD RUN ROAD.
2. EXISTING TREES PROTECT IN PLACE WITHIN BANKFULL CHANNEL LIMITS.
3. SEE DRAINAGE DETAILS FOR DITCH, INLET, AND OUTLET PROTECTION.
4. SEE CULVERT END DETAILS FOR WINGWALL AND HEADWALL DIMENSIONS AND DETAILS.
5. SEE DRAINAGE POINT TABLE FOR GRADING POINT INFORMATION.

N

25 0 25 50 FT
HORIZONTAL SCALE: 1"=50'

100% SET

CALL UTILITY NOTIFICATION CENTER OF COLORADO
811
CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES

REVISIONS:	NO.	DATE	REVISION DESCRIPTION:

Boulder County

BOULDER COUNTY TRANSPORTATION DEPARTMENT
ENGINEERING DIVISION

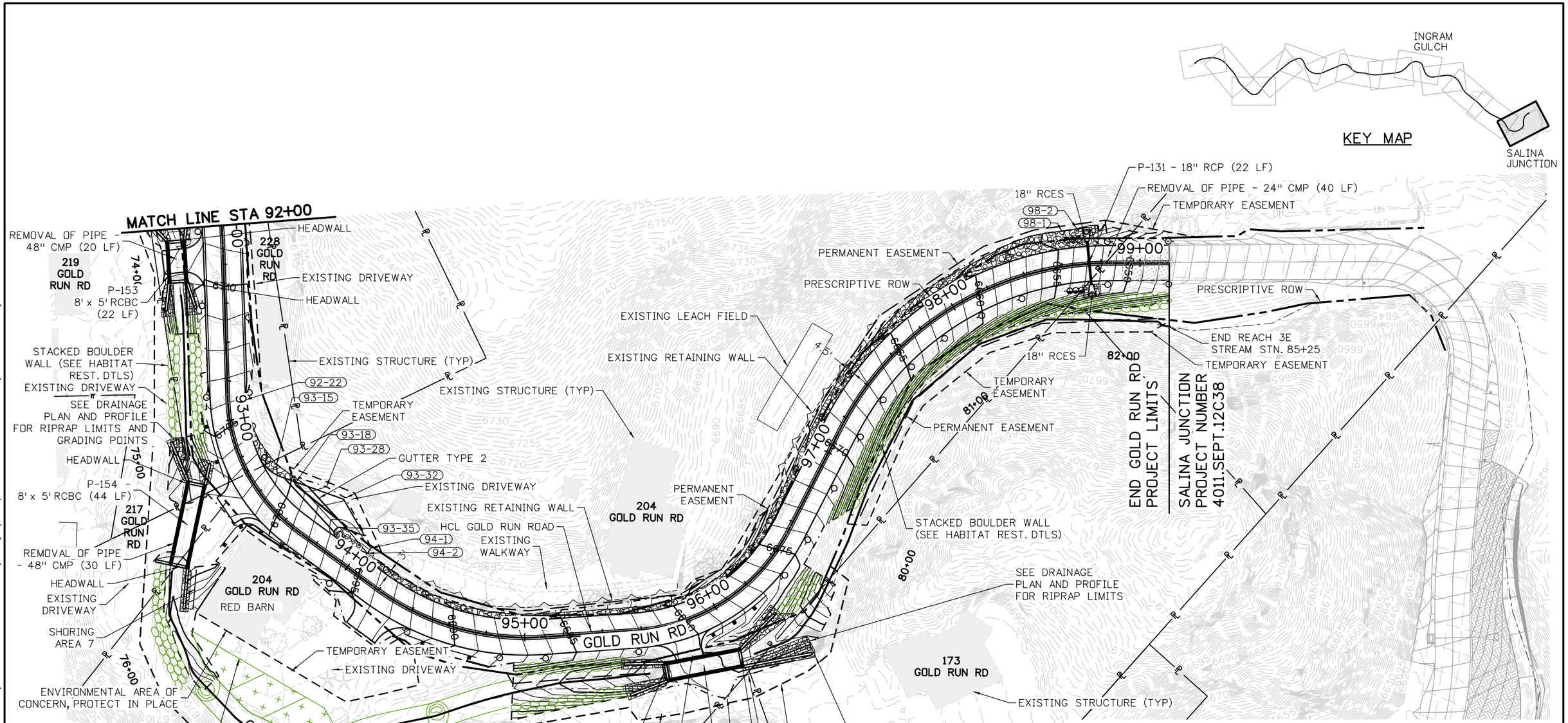
Michael Baker INTERNATIONAL

DESIGNED:	CAD:	CHECKED:	DATE:
JLW	EMR	SLS	12/23/16

GOLD RUN ROAD
DRAINAGE PLAN
(SHEET 12 OF 13)

PROJECT NO: 4011.SEPT12C38 | SHEET NO: 129

jessica.wray 5:32:44 PM 12/21/2016 pw:\\DCPWAPP1.bkr.mbakercorp.com:pwprod\Documents\Projects\Lakewood_Office\Boulder_County_Emergency_Transportation\T02\08_Sheet_Files\02_Hydraulics\DGN\DR-12.dgn



NOTES:

1. SHORING (AREA 7) IS ANTICIPATED BASED ON A 4' ALLOWANCE FOR BARRIER AND SHY DISTANCE OUTSIDE OF A 9' LANE FROM HCL GOLD RUN ROAD.
2. EXISTING TREES PROTECT IN PLACE WITHIN BANKFULL CHANNEL LIMITS.
2. SEE DRAINAGE DETAILS FOR DITCH, INLET, AND OUTLET PROTECTION, AND GUTTER DIMENSIONS.
3. SEE CULVERT END DETAILS FOR WINGWALL AND HEADWALL DIMENSIONS AND DETAILS.
4. SEE DRAINAGE POINT TABLE FOR GRADING POINT INFORMATION.

100% SET

CALL UTILITY NOTIFICATION CENTER OF COLORADO
811
CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES

REVISIONS:	NO.	DATE	REVISION DESCRIPTION:

Boulder County

BOULDER COUNTY TRANSPORTATION DEPARTMENT
ENGINEERING DIVISION

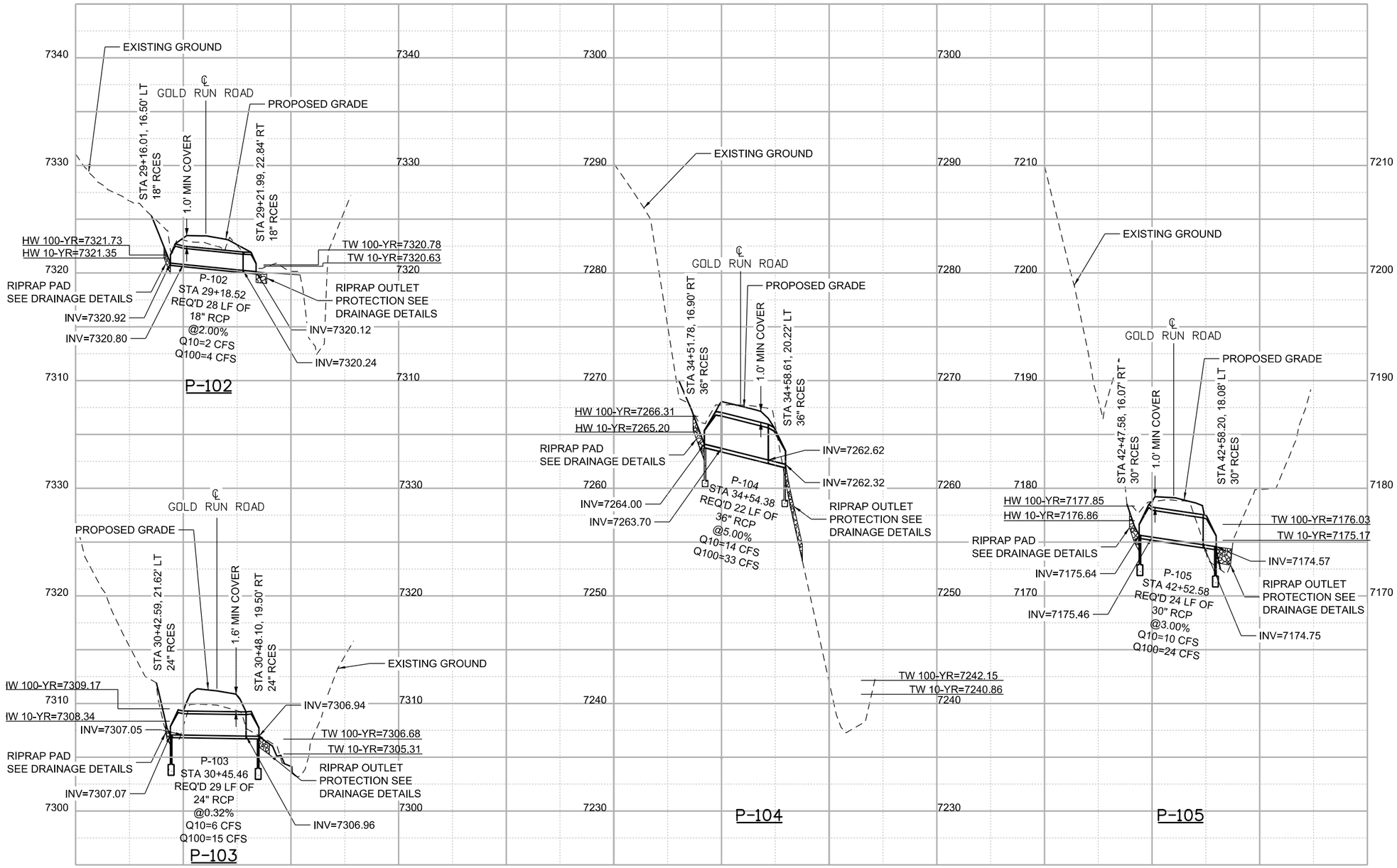
Michael Baker INTERNATIONAL

DESIGNED:	CAD:	CHECKED:	DATE:
JLW	EMR	SLS	12/23/16

GOLD RUN ROAD
DRAINAGE PLAN
(SHEET 13 OF 13)

PROJECT NO: 4011.SEPT12C38 | SHEET NO: 130

jessica.wroy 5:33:11 PM 12/21/2016 pw:\\DCPWAPP1.bkr.mbakercorp.com:pwprod\Documents\Projects\Lakewood_Office\Boulder_County_Emergency_Transportation\T02\08_Sheet_Files\02_Hydraulics\DGN\DR-13.dgn



25 0 25 50 FT
HORIZONTAL SCALE: 1"=50'
VERTICAL SCALE: 1"=10'

100% SET

CALL UTILITY NOTIFICATION CENTER OF COLORADO
811
CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES

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Boulder County
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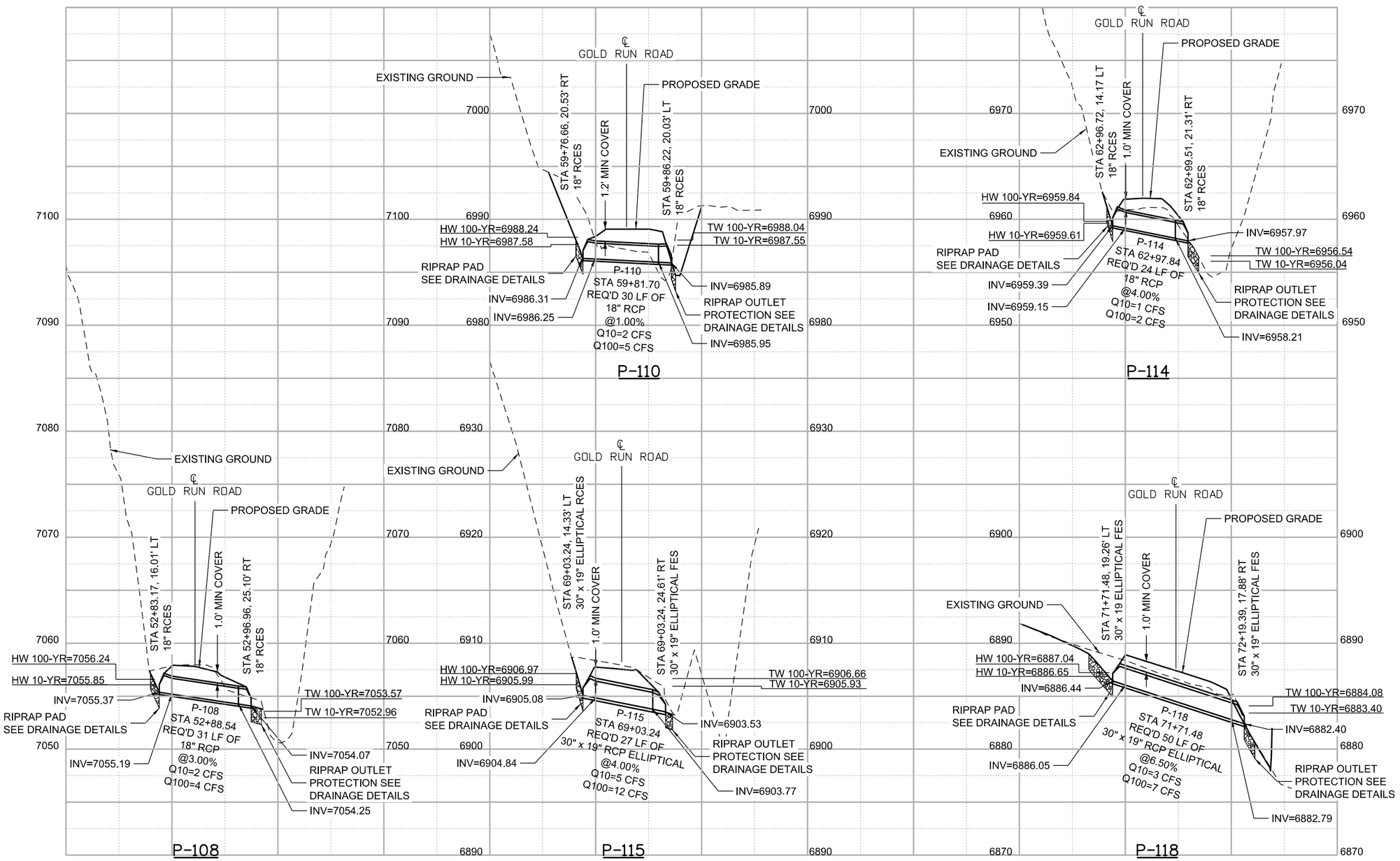
GOLD RUN ROAD
DRAINAGE PROFILES (SHEET 1 OF 4)

PROJECT NO: 4011.SEPT12C38 SHEET NO: 131

jessica.wray 5:42:23 PM 12/21/2016 pw:\\DCPWAPP1.bkr.mbakercorp.com:pwprod\Documents\Projects\Lakewood_Office\Boulder_County_Emergency_Transportation\T02\08_Sheet_Files\02_Hydraulics\DGN\DP-01.dgn



25 0 25 50 FT
HORIZONTAL SCALE: 1"=50'
VERTICAL SCALE: 1"=10'

100% SET

CALL UTILITY NOTIFICATION CENTER OF COLORADO
811
CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES

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GOLD RUN ROAD
DRAINAGE PROFILES
(SHEET 2 OF 4)

PROJECT NO: 4011.SEPT12C38 | SHEET NO: 132

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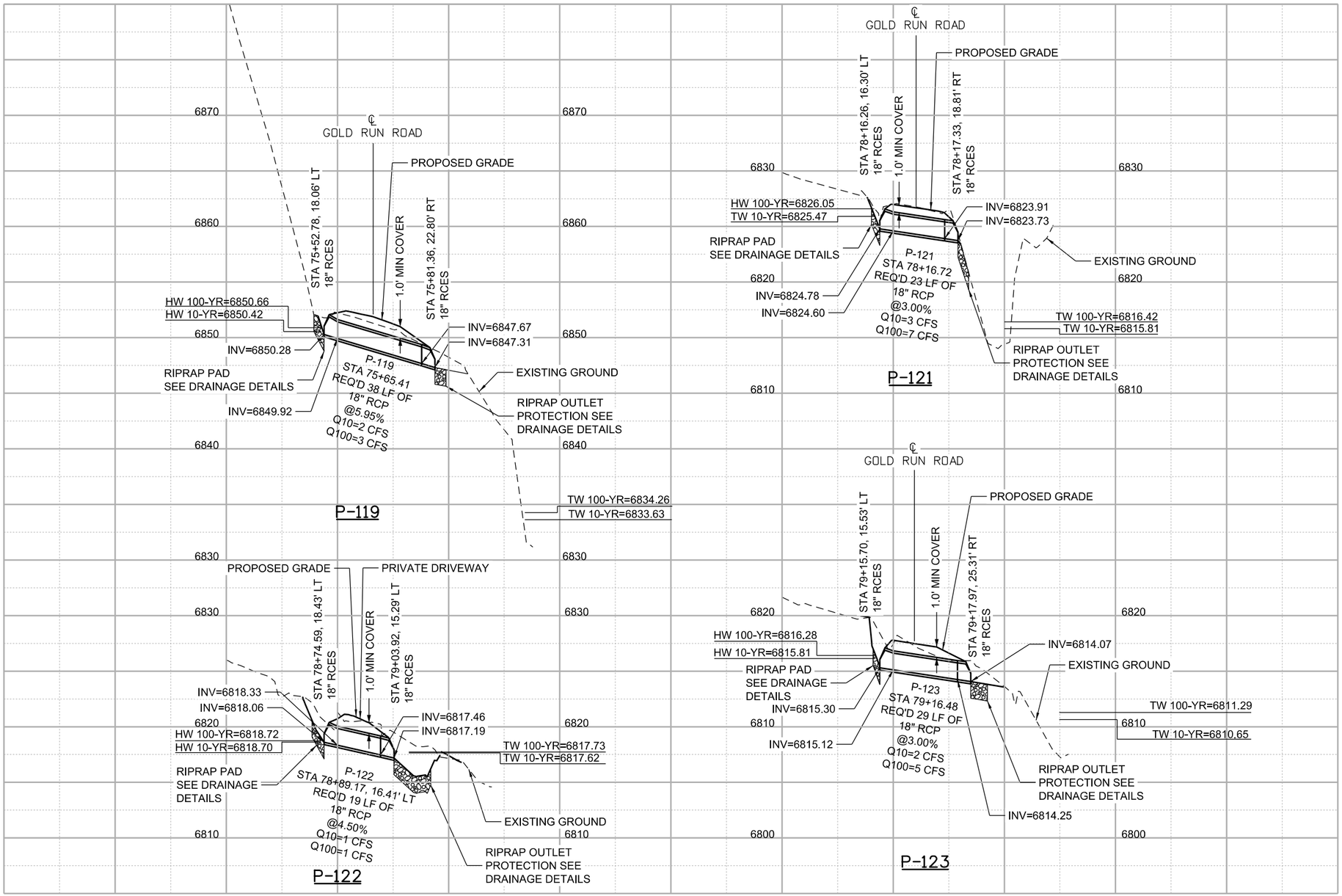

25 0 25 50 FT
HORIZONTAL SCALE: 1"=50'
VERTICAL SCALE: 1"=10'

100% SET

CALL UTILITY NOTIFICATION CENTER OF COLORADO
CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES

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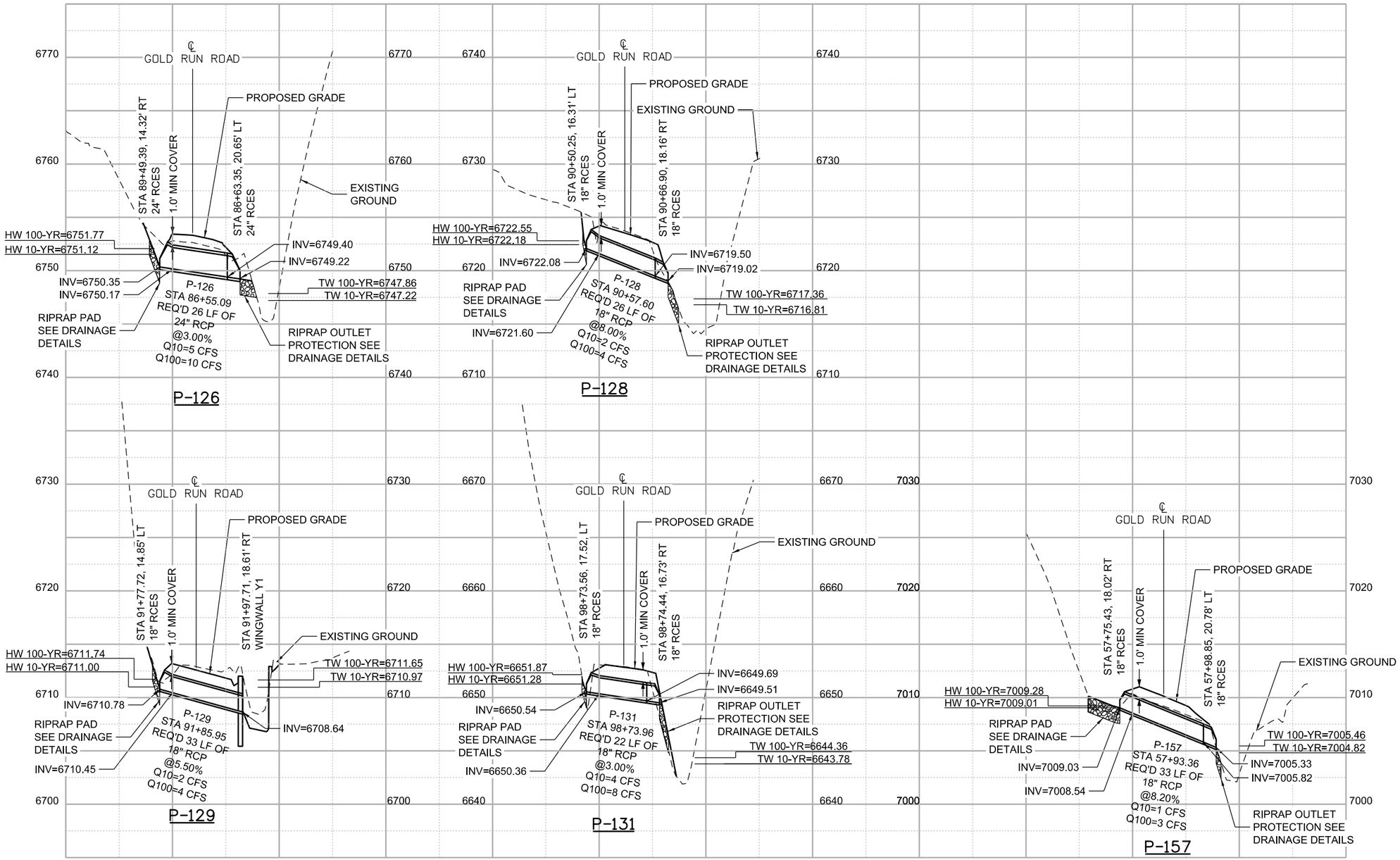
GOLD RUN ROAD
DRAINAGE PROFILES (SHEET 3 OF 4)

PROJECT NO: 4011.SEPT12C38 | SHEET NO: 133

jessica.wray 5:42:58 PM 12/21/2016 pw:\\DCPWAPP1.bkr.mbakercorp.com:pwprod\Documents\Projects\Lakewood_Office\Boulder_County_Emergency_Transportation\T02\08_Sheet_Files\02_Hydraulics\DGN\DP-03.dgn



25 0 25 50 FT
HORIZONTAL SCALE: 1"=50'
VERTICAL SCALE: 1"=10'

100% SET

CALL UTILITY NOTIFICATION CENTER OF COLORADO
CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES

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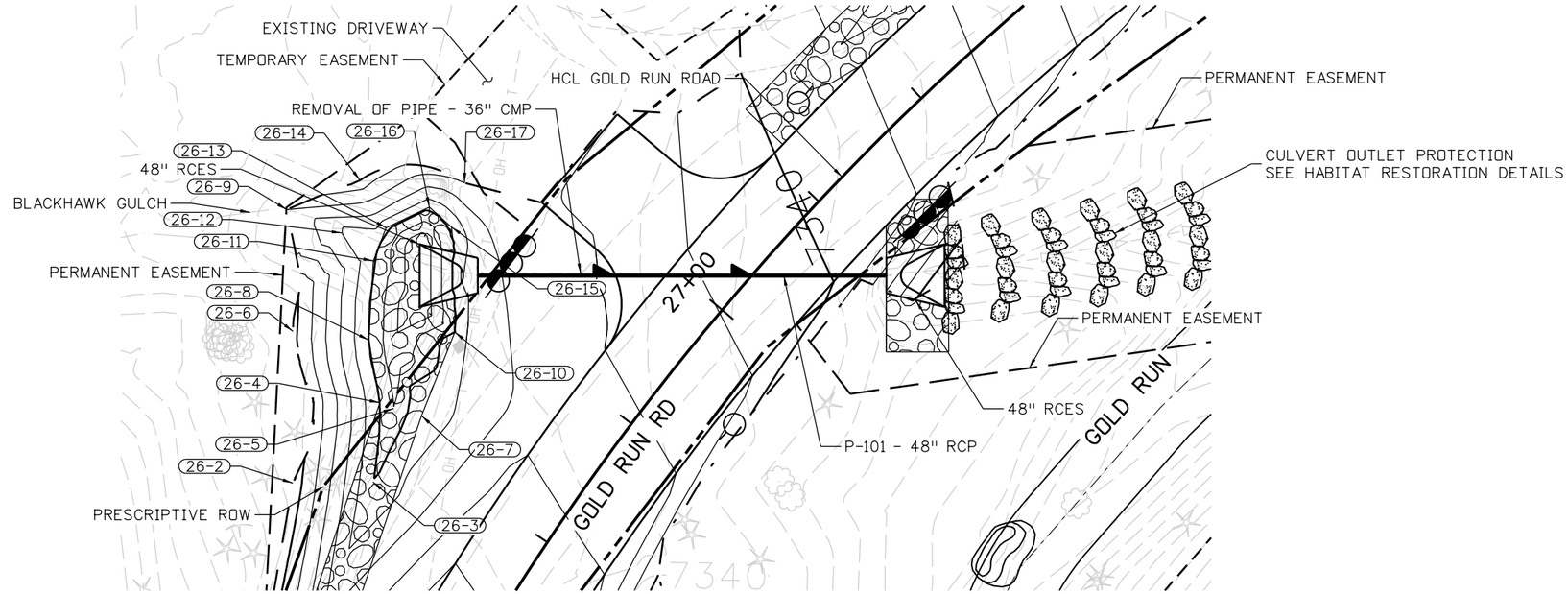
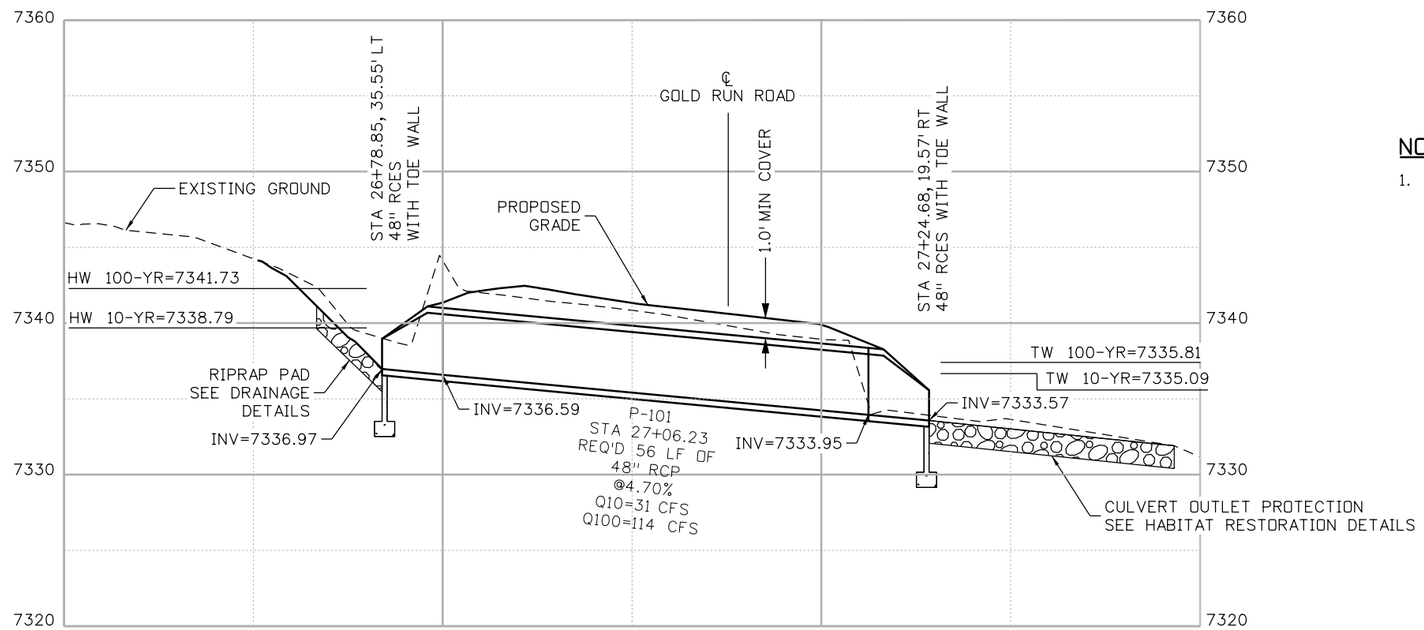
GOLD RUN ROAD
DRAINAGE PROFILES (SHEET 4 OF 4)

PROJECT NO: 4011.SEPT12C38 | SHEET NO: 134

jessica.wray 5:43:15 PM 12/21/2016 pw:\\DCPWAPP1.bkr.mbakercorp.com:pwprod\Documents\Projects\Lakewood_Office\Boulder_County_Emergency_Transportation\T02\08_Sheet_Files\02_Hydraulics\DGN\DP-04.dgn





NOTE:

1. SEE TYPICAL PRECAST BOX CULVERT END DETAILS SHEET FOR DESIGN INFORMATION.

P-101

HCL: GOLD RUN ROAD

N

10 0 10 20 FT

HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=10'

100% SET

CALL UTILITY NOTIFICATION CENTER OF COLORADO
811
CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES

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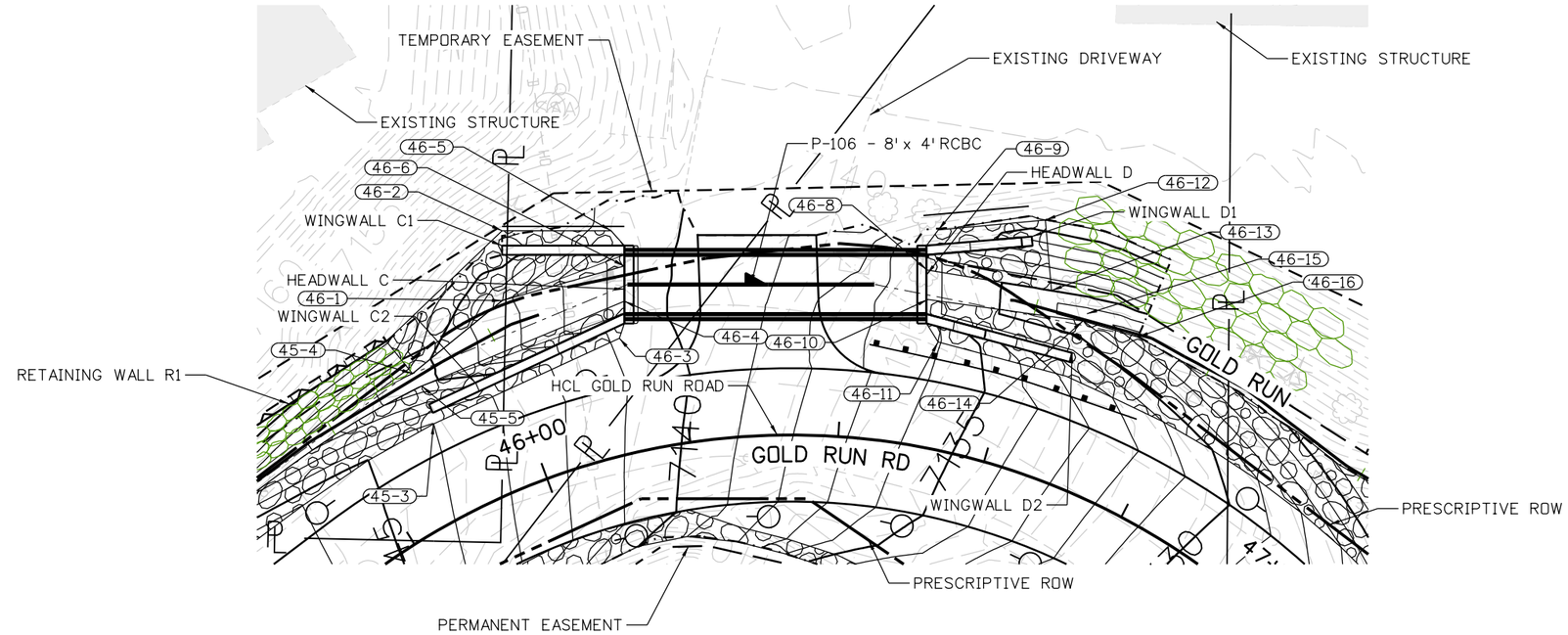
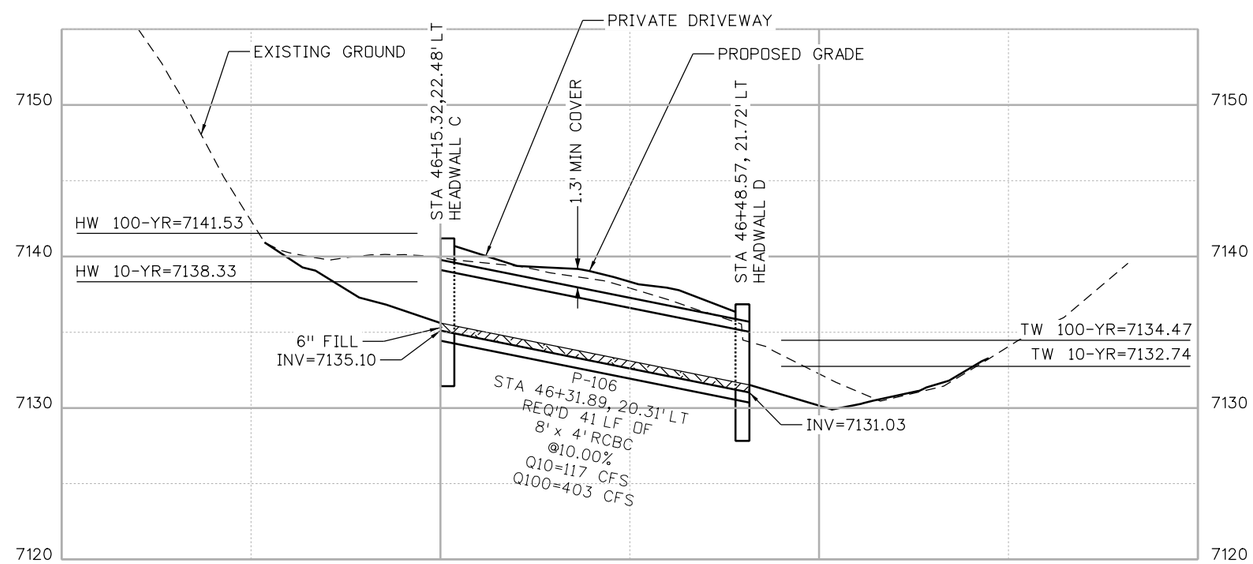
DESIGNED:	CAD:	CHECKED:	DATE:
JLW	EMR	SLS	12/23/16

GOLD RUN ROAD
DRAINAGE PLAN AND PROFILE
P-101

PROJECT NO: 4011.SEPT12C38 | SHEET NO: 135

jessica.wroy 5:33:43 PM 12/21/2016 pw:\\DCPWAPP1.bkr.mbakercorp.com:pwprod\Documents\Projects\Lakewood_Office\Boulder_County_Emergency_Transportation\102\08_Sheet_Files\02_Hydraulics\DGN\DPP-01.dgn





P-106

HCL: GOLD RUN ROAD

NOTE:

1. SEE TYPICAL PRECAST BOX CULVERT END DETAILS SHEET FOR DESIGN INFORMATION.

N

10 0 10 20 FT

HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=10'

100% SET

CALL UTILITY NOTIFICATION CENTER OF COLORADO
811
CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES

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DESIGNED:	CAD:	CHECKED:	DATE:
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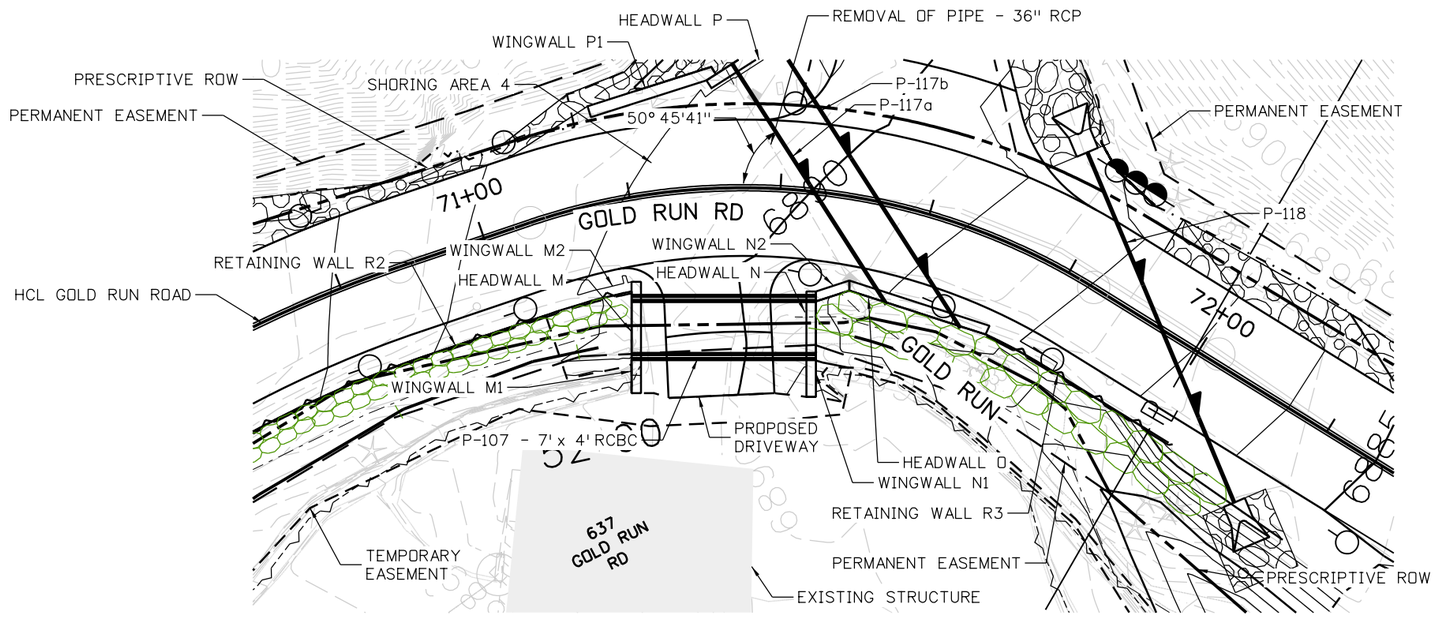
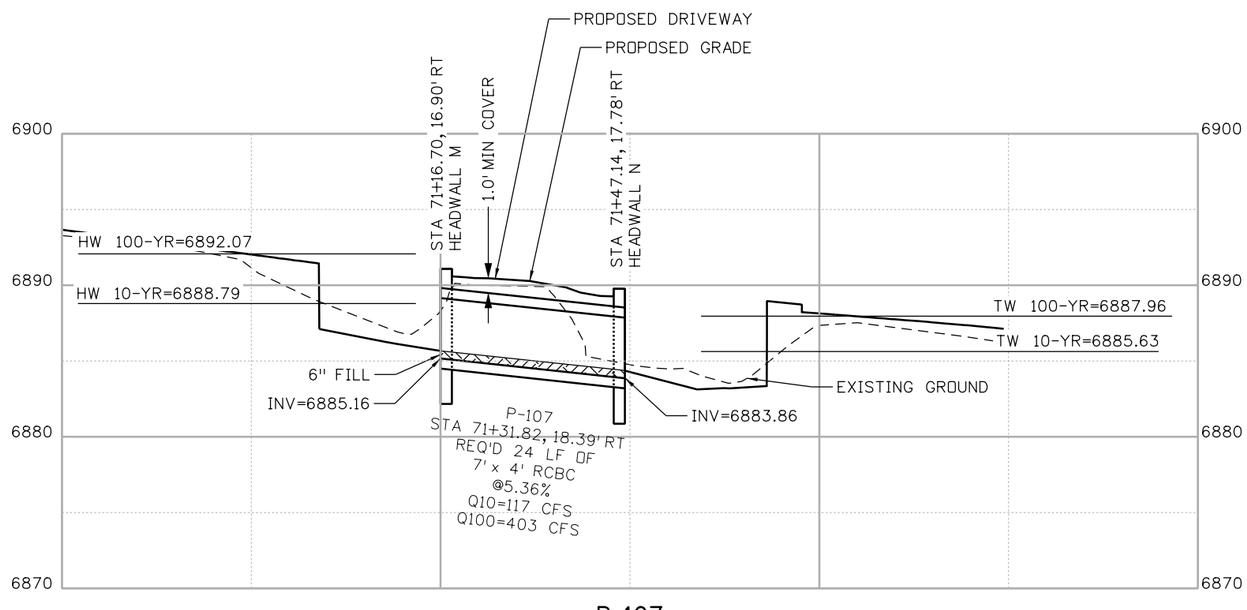
GOLD RUN ROAD
DRAINAGE PLAN AND PROFILE
P-106

PROJECT NO: 4011.SEPT12C38 SHEET NO: 136

jessica.wroy 5:34:12 PM 12/21/2016 pw:\\DCPWAPP1.bkr.mbakercorp.com:pwprod\Documents\Projects\Lakewood_Office\Boulder_County_Emergency_Transportation\T02\08_Sheet_Files\02_Hydraulics\DGN\DPP-02.dgn





P-107

HCL: GOLD RUN ROAD

NOTE:

1. HEADWALL N AND O, WINGWALLS NI AND N2 AND RETAINING WALL R3 SHALL HAVE CONTINUOUS VENEER WITHOUT VERTICAL BANDS.
2. SEE TYPICAL PRECAST BOX CULVERT END DETAILS SHEET FOR DESIGN INFORMATION.

N

10 0 10 20 FT
HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=10'

100% SET

CALL UTILITY NOTIFICATION CENTER OF COLORADO
811
CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES

REVISIONS:	NO.	DATE	REVISION DESCRIPTION:

Boulder County

BOULDER COUNTY TRANSPORTATION DEPARTMENT
ENGINEERING DIVISION

Michael Baker INTERNATIONAL

DESIGNED:	CAD:	CHECKED:	DATE:
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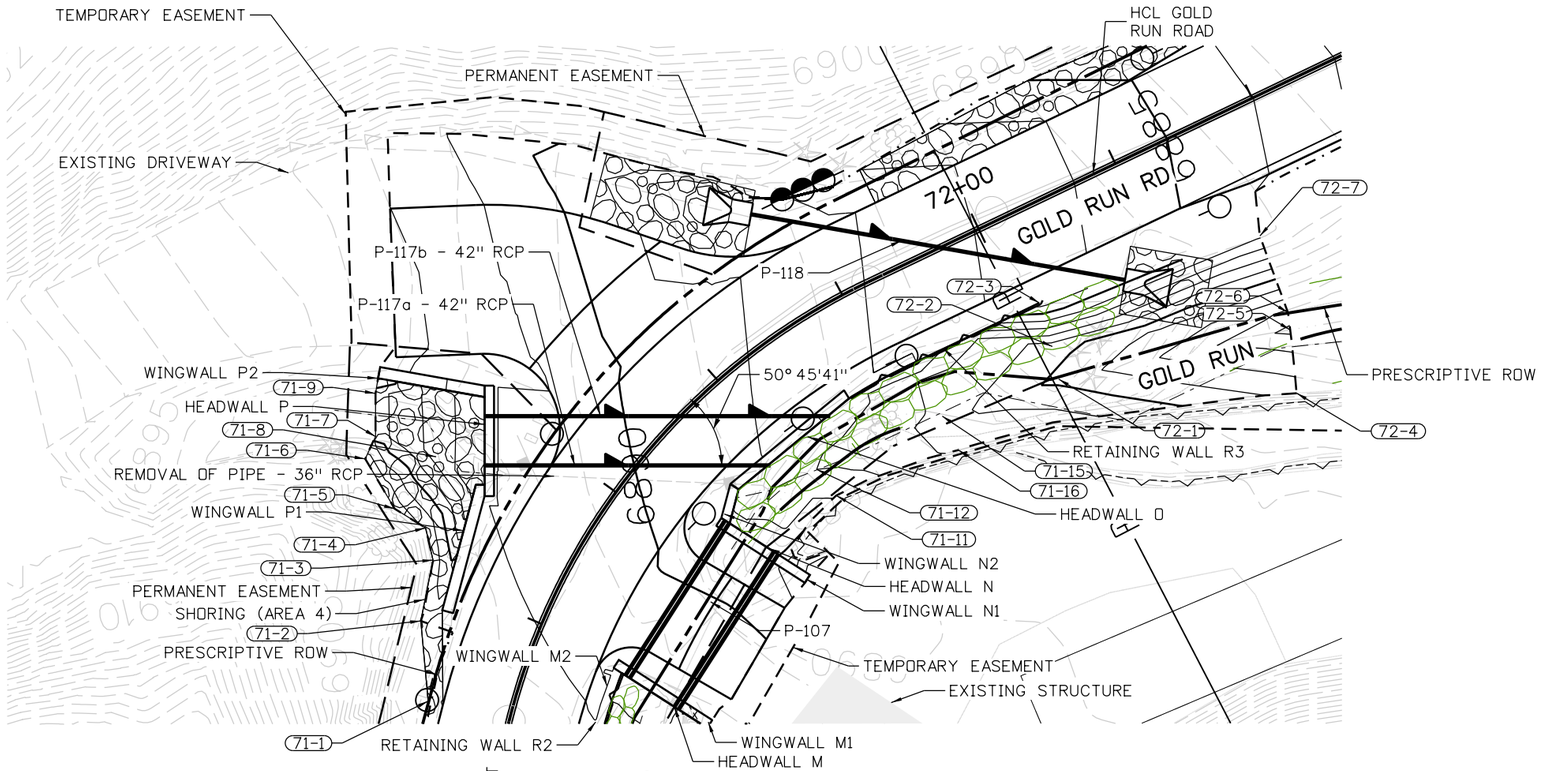
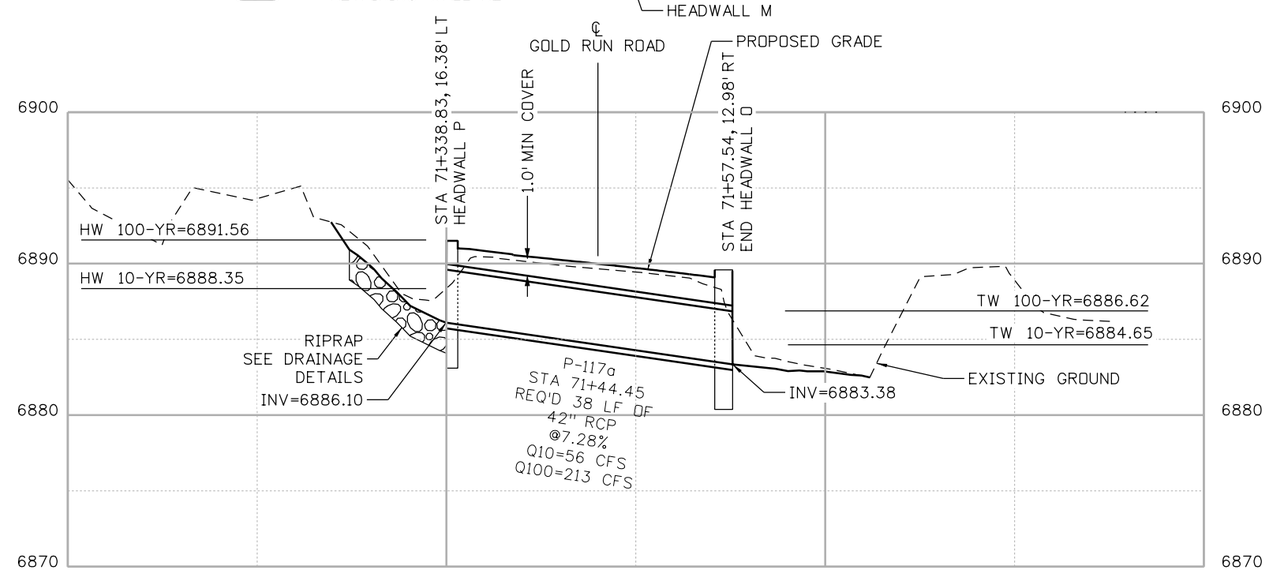
GOLD RUN ROAD
DRAINAGE PLAN AND PROFILE
P-107

PROJECT NO: 4011.SEPT12C38 SHEET NO: 137

jessica.wray 5:34:39 PM 12/21/2016 pw:\\DCPWAPP1.bkr.mbakercorp.com:pwprod\Documents\Projects\Lakewood_Office\Boulder_County_Emergency_Transportation\T02\08_Sheet_Files\02_Hydraulics\DGN\DPP-03.dgn





P-117a

HCL: GOLD RUN ROAD

NOTES:

1. HEADWALL N AND O, WINGWALLS NI AND N2 AND RETAINING WALL R3 SHALL HAVE CONTINUOUS VENEER WITHOUT VERTICAL BANDS.
2. SEE TYPICAL PRECAST BOX CULVERT FOR DESIGN INFORMATION.

N

10 0 10 20 FT
HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=10'

100% SET

CALL UTILITY NOTIFICATION CENTER OF COLORADO
811
CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES

REVISIONS:	NO.	DATE	REVISION DESCRIPTION:

Boulder County
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BOULDER COUNTY TRANSPORTATION DEPARTMENT
ENGINEERING DIVISION

DESIGNED:	CAD:	CHECKED:	DATE:
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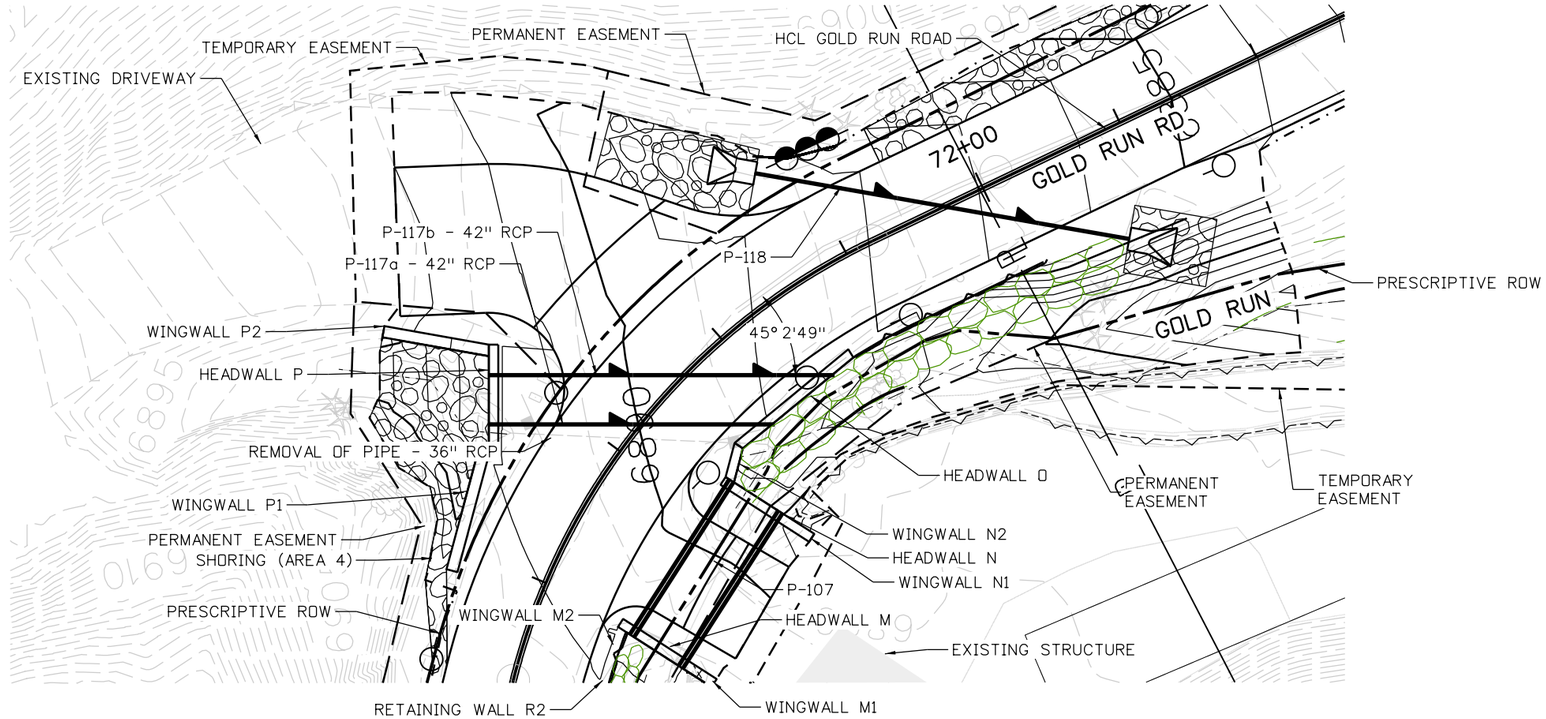
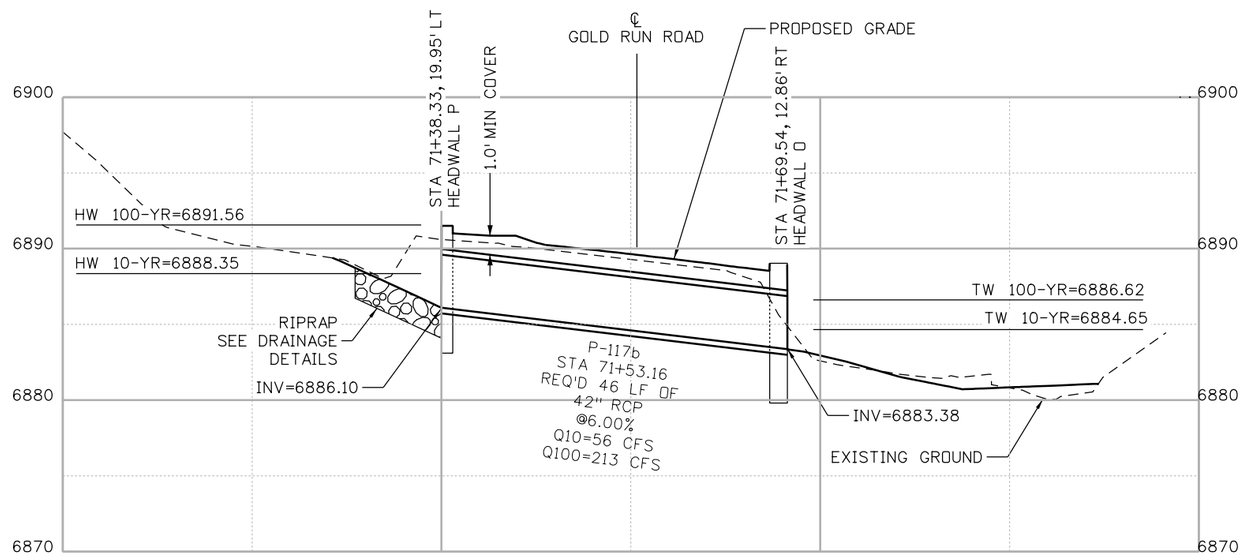
GOLD RUN ROAD
DRAINAGE PLAN AND PROFILE
P-117a

PROJECT NO: 4011.SEPT12C38 SHEET NO: 138

jessica.wroy 5:35:06 PM 12/21/2016 pw:\\DCPWAPP1.bkr.mbakercorp.com:pwprod\Documents\Projects\Lakewood_Office\Boulder_County_Emergency_Transportation\T02\08_Sheet_Files\02_Hydraulics\DGN\DPP-04.dgn





P-117b

HCL: GOLD RUN ROAD

NOTES:

1. HEADWALL N AND O, WINGWALLS NI AND N2 AND RETAINING WALL R3 SHALL HAVE CONTINUOUS VENEER WITHOUT VERTICAL BANDS.
2. SEE TYPICAL PRECAST BOX CULVERT END DETAILS SHEET FOR DESIGN INFORMATION.

N

10 0 10 20 FT
HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=10'

100% SET

CALL UTILITY NOTIFICATION CENTER OF COLORADO
811
CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES

REVISIONS:	NO.	DATE	REVISION DESCRIPTION:

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DESIGNED:	CAD:	CHECKED:	DATE:
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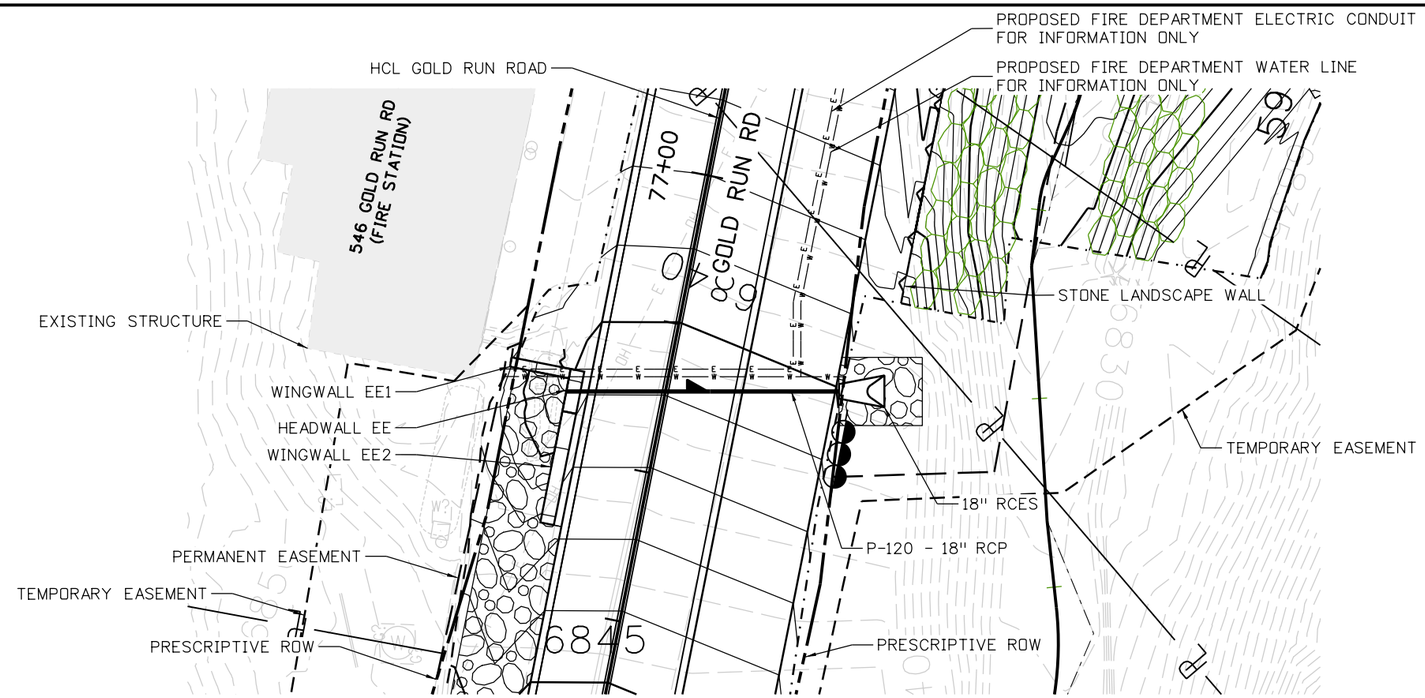
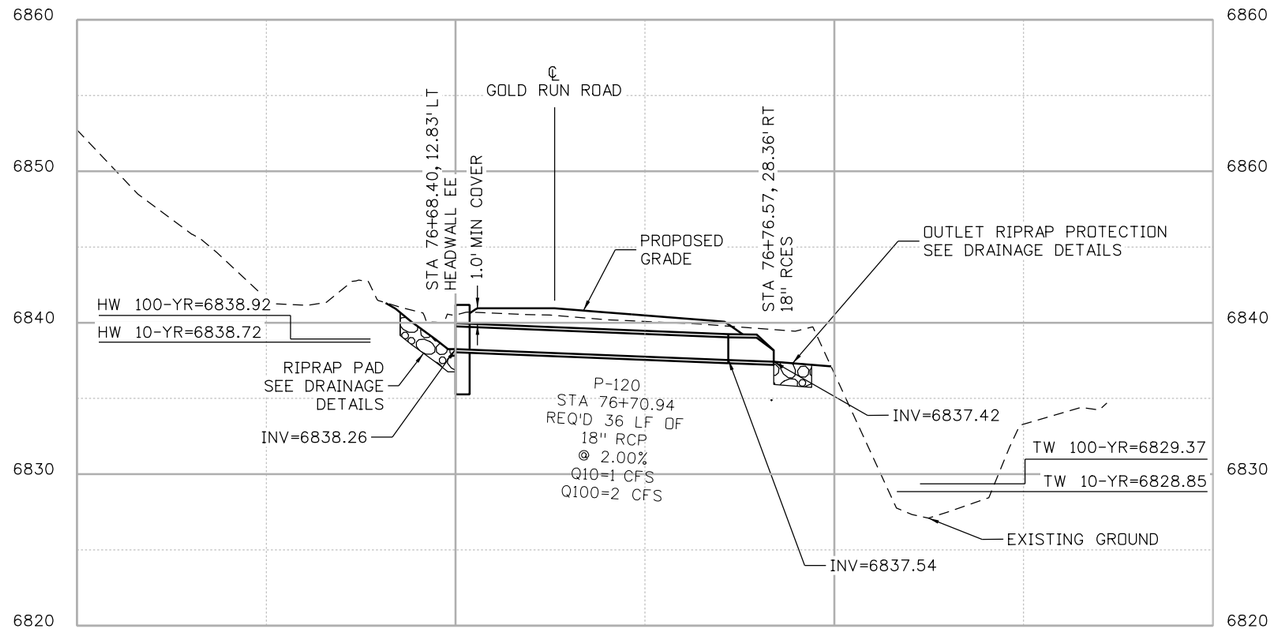
GOLD RUN ROAD
DRAINAGE PLAN AND PROFILE
P-117b

PROJECT NO: 4011.SEPT12C38 | SHEET NO: 139

jessica.wroy 5:35:34 PM 12/21/2016 pw:\\DCPWAPP1.bkr.mbakercorp.com:pwprod\Documents\Projects\Lakewood_Office\Boulder_County_Emergency_Transportation\T02\08_Sheet_Files\02_Hydraulics\DGN\DPP-05.dgn





NOTE:

1. SEE TYPICAL PRECAST BOX CULVERT END DETAILS SHEET FOR DESIGN INFORMATION.

P-120

HCL: GOLD RUN ROAD

N

10 0 10 20 FT

HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=10'

100% SET

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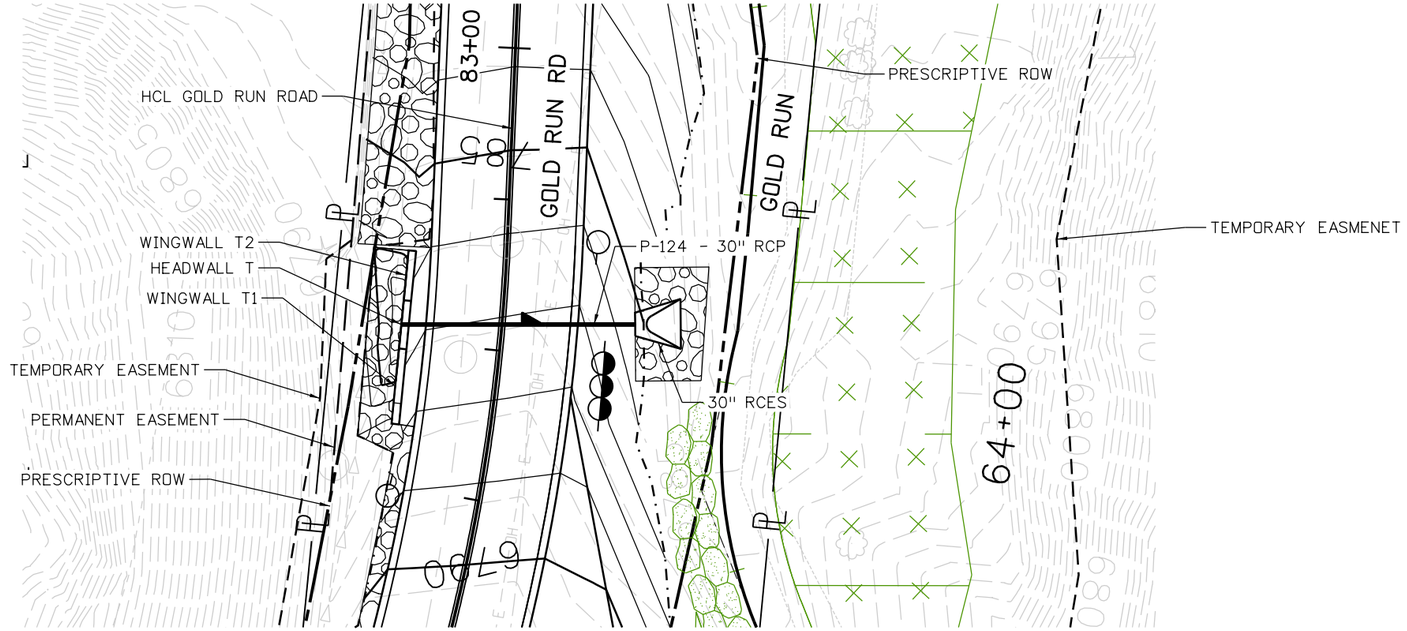
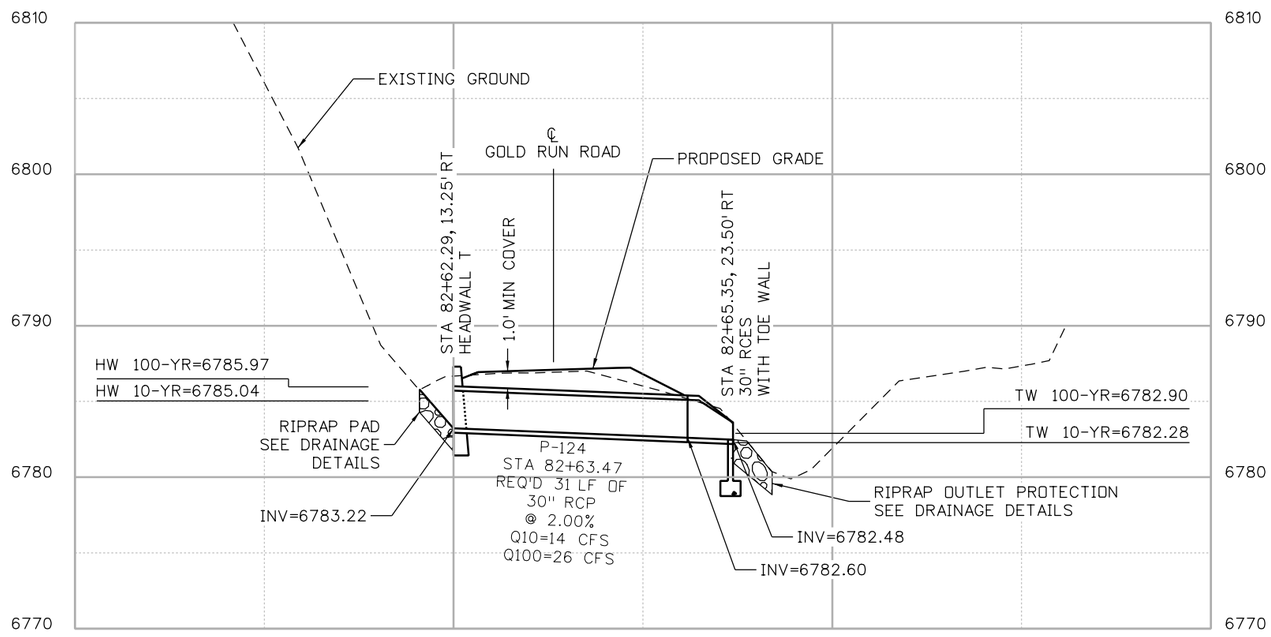
GOLD RUN ROAD
DRAINAGE PLAN AND PROFILE
P-120

PROJECT NO: 4011.SEPT12C38 | SHEET NO: 140

jessica.wray 5:36:01 PM 12/21/2016 pw:\\DCPWAPP1.bkr.mbakercorp.com:pwprod\Documents\Projects\Lakewood_Office\Boulder_County_Emergency_Transportation\T02\08_Sheet_Files\02_Hydraulics\DGN\DPP-06.dgn





P-124

HCL: GOLD RUN RD

NOTE:

1. SEE TYPICAL PRECAST BOX CULVERT END DETAILS SHEET FOR DESIGN INFORMATION.

N

10 0 10 20 FT
HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=10'

100% SET

CALL UTILITY NOTIFICATION CENTER OF COLORADO
811
CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES

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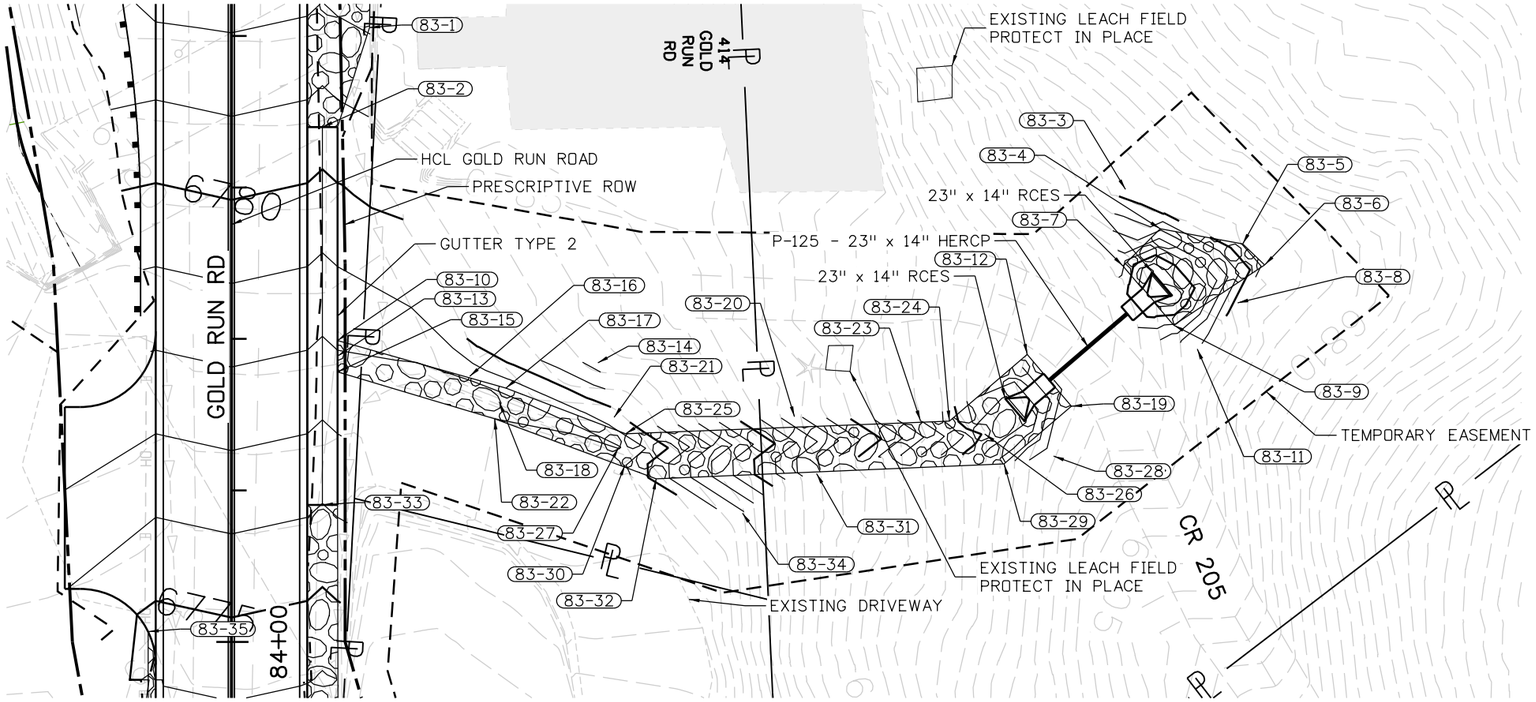
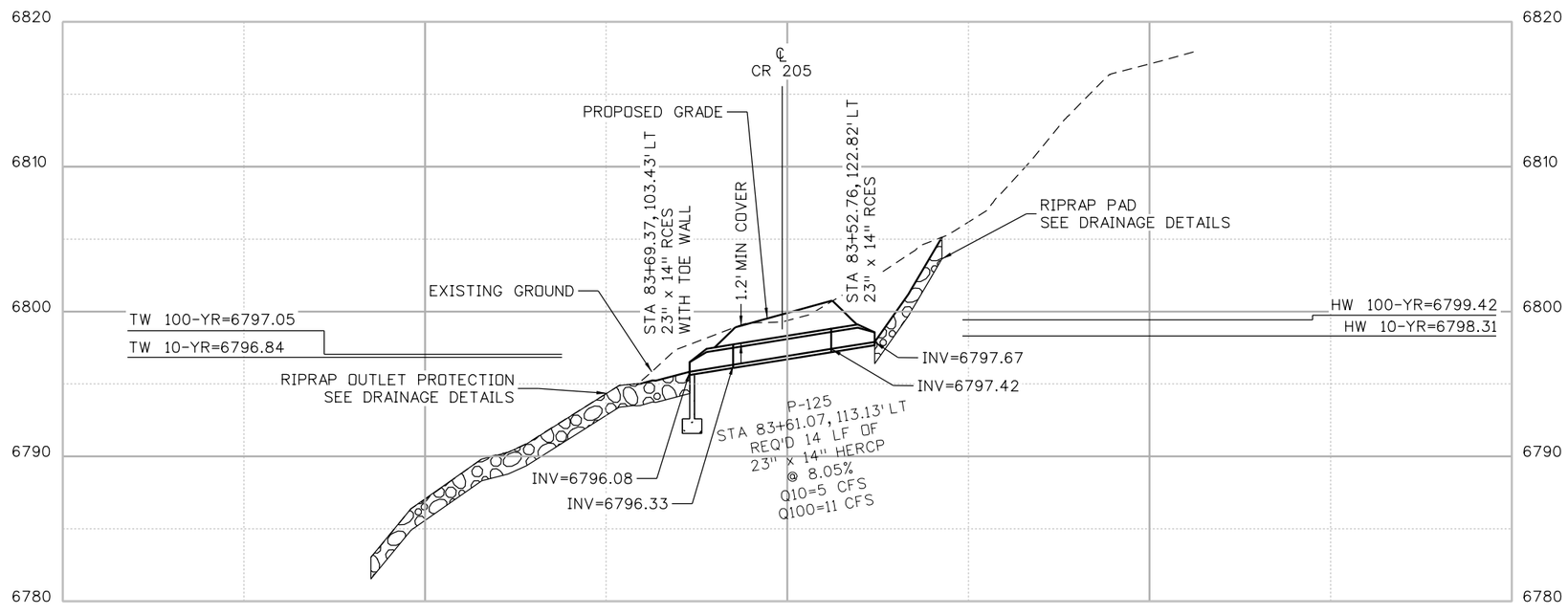
GOLD RUN ROAD
DRAINAGE PLAN AND PROFILE
P-124

PROJECT NO: 4011.SEPT12C38 | SHEET NO: 141

jessica.wray 5:36:27 PM 12/21/2016 pw:\\DCPWAPP1.bkr.mbakercorp.com:pwprod\Documents\Projects\Lakewood_Office\Boulder_County_Emergency_Transportation\T02\08_Sheet_Files\02_Hydraulics\DGN\DPP-07.dgn





P-125

HCL: GOLD RUN ROAD

NOTE:

1. SEE TYPICAL PRECAST BOX CULVERT END DETAILS SHEET FOR DESIGN INFORMATION.

N

10 0 10 20 FT
HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=10'

100% SET

CALL UTILITY NOTIFICATION CENTER OF COLORADO
811
CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES

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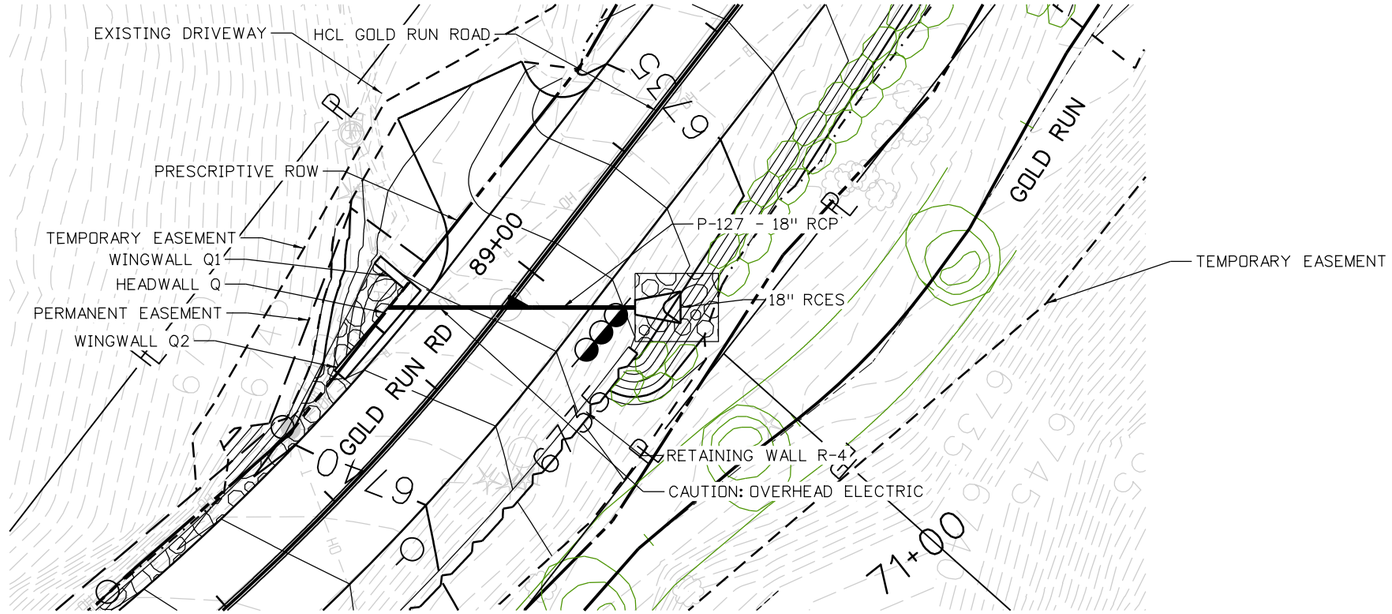
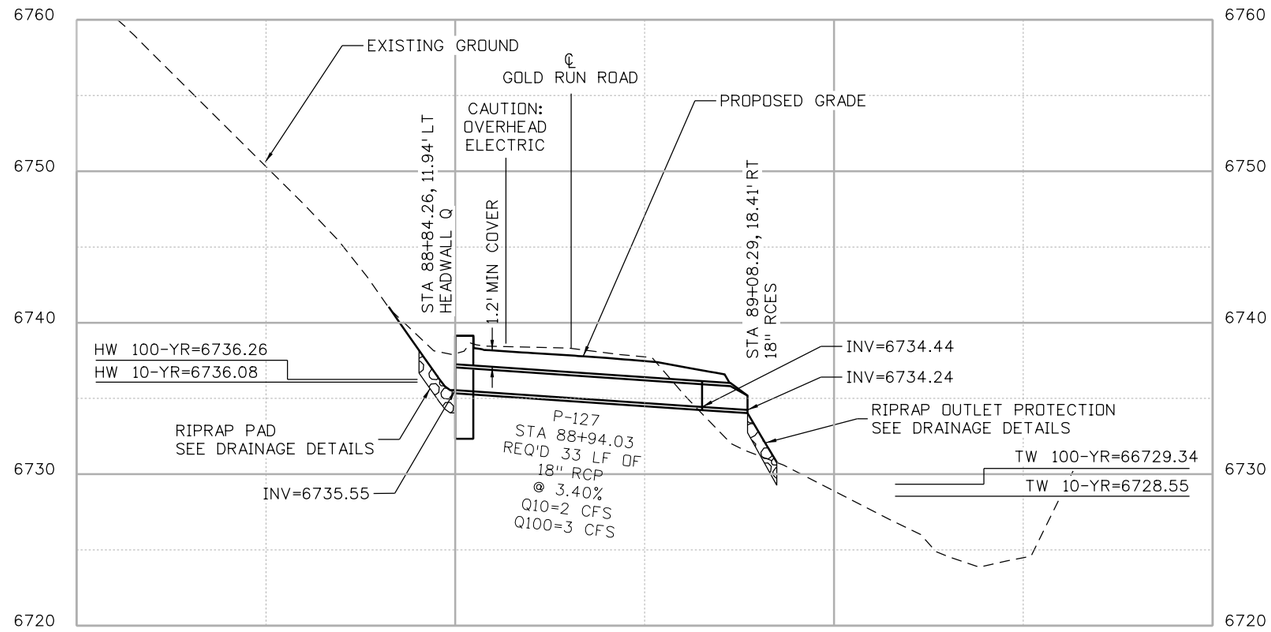
GOLD RUN ROAD
DRAINAGE PLAN AND PROFILE
P-125

PROJECT NO: 4011.SEPT12C38 SHEET NO: 142

jessica.wray 5:36:53 PM 12/21/2016 pw:\\DCPWAPP1.bkr.mbakercorp.com:pwprod\Documents\Projects\Lakewood_Office\Boulder_County_Emergency_Transportation\T02\08_Sheet_Files\02_Hydraulics\DGN\DPP-08.dgn





P-127

HCL: GOLD RUN ROAD

NOTE:

1. SEE TYPICAL PRECAST BOX CULVERT END DETAILS SHEET FOR DESIGN INFORMATION.

N

10 0 10 20 FT

HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=10'

100% SET

CALL UTILITY NOTIFICATION CENTER OF COLORADO
811
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REVISIONS:	NO.	DATE	REVISION DESCRIPTION:

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Michael Baker INTERNATIONAL

DESIGNED:	CAD:	CHECKED:	DATE:
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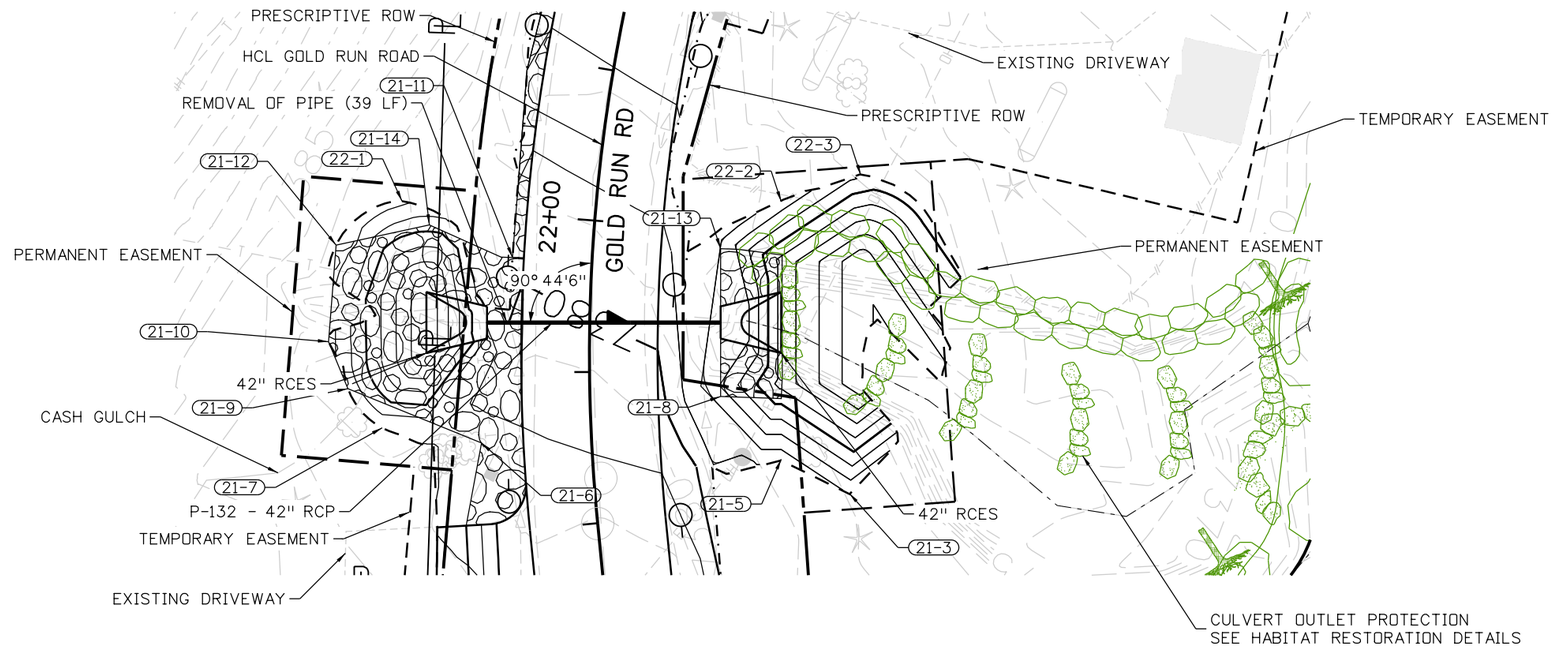
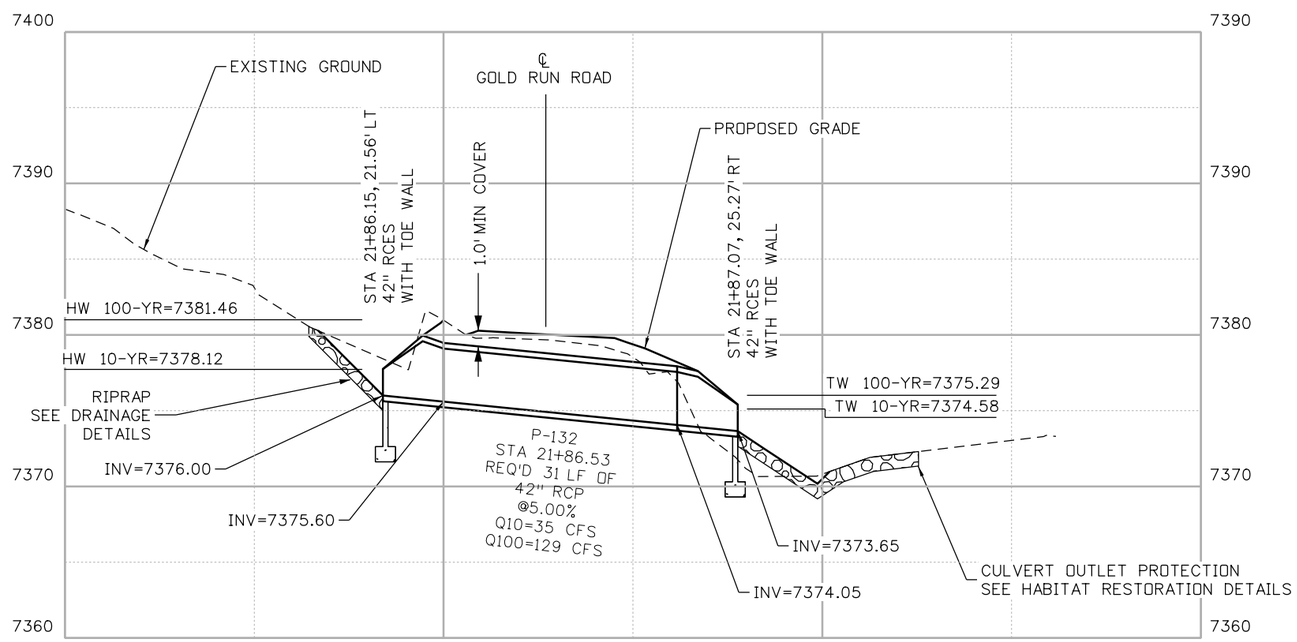
GOLD RUN ROAD
DRAINAGE PLAN AND PROFILE
P-127

PROJECT NO: 4011.SEPT12C38 | SHEET NO: 143

jessica.wray 5:37:19 PM 12/21/2016 pw:\\DCPWAPP1.bkr.mbakercorp.com:pwprod\Documents\Projects\Lakewood_Office\Boulder_County_Emergency_Transportation\T02\08_Sheet_Files\02_Hydraulics\DGN\DPP-09.dgn





P-132

HCL: GOLD RUN ROAD

NOTE:

1. SEE TYPICAL PRECAST BOX CULVERT END DETAILS SHEET FOR DESIGN INFORMATION.

N

10 0 10 20 FT
HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=10'

100% SET

CALL UTILITY NOTIFICATION CENTER OF COLORADO
811
CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES

REVISIONS:	NO.	DATE	REVISION DESCRIPTION:

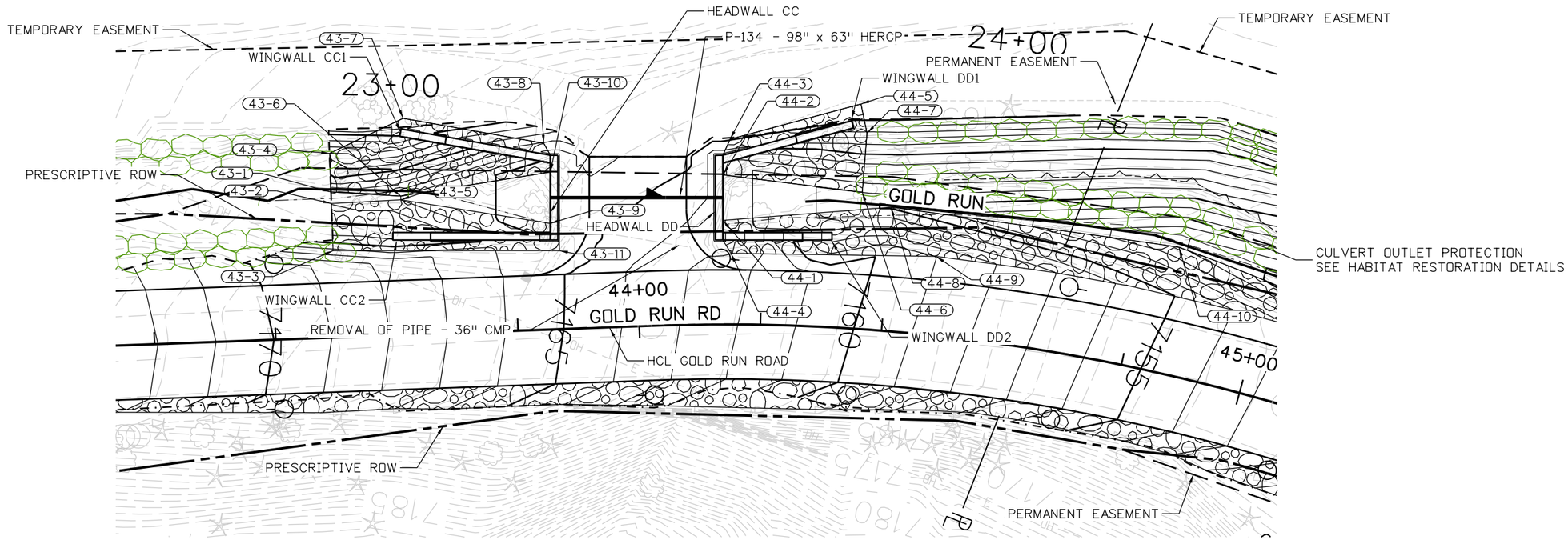
BOULDER COUNTY TRANSPORTATION DEPARTMENT
ENGINEERING DIVISION
Boulder County
Michael Baker INTERNATIONAL

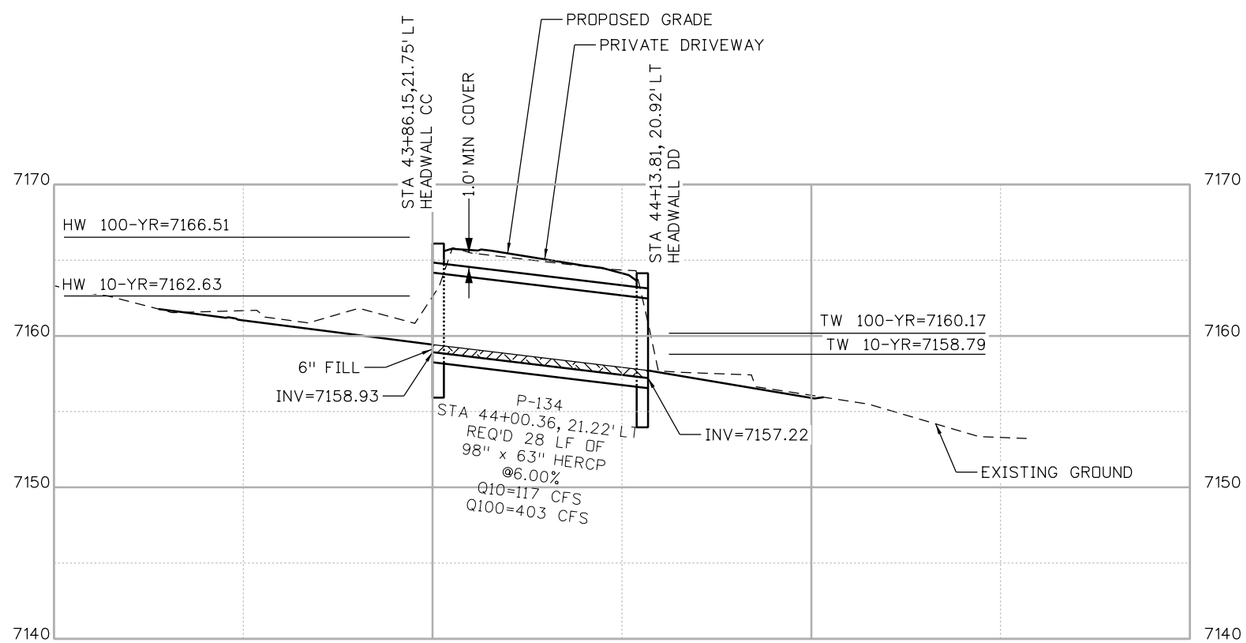
DESIGNED:	CAD:	CHECKED:	DATE:
JLW	EMR	SLS	12/23/16

GOLD RUN ROAD
DRAINAGE PLAN AND PROFILE
P-132

PROJECT NO: 4011.SEPT12C38 SHEET NO: 144

jessica.wroy 5:37:46 PM 12/21/2016 pw:\\DCPWAPP1bkr.mbakercorp.com:pwprod\Documents\Projects\Lakewood_Office\Boulder_County_Emergency_Transportation\T02\08_Sheet_Files\02_Hydraulics\DGN\DPP-10.dgn





P-134

HCL: GOLD RUN ROAD

NOTE:

1. SEE TYPICAL PRECAST BOX CULVERT END DETAILS SHEET FOR DESIGN INFORMATION.

N

10 0 10 20 FT

HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=10'

100% SET

CALL UTILITY NOTIFICATION CENTER OF COLORADO
811
CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES

REVISIONS:	NO.	DATE	REVISION DESCRIPTION:

Boulder County

Michael Baker INTERNATIONAL

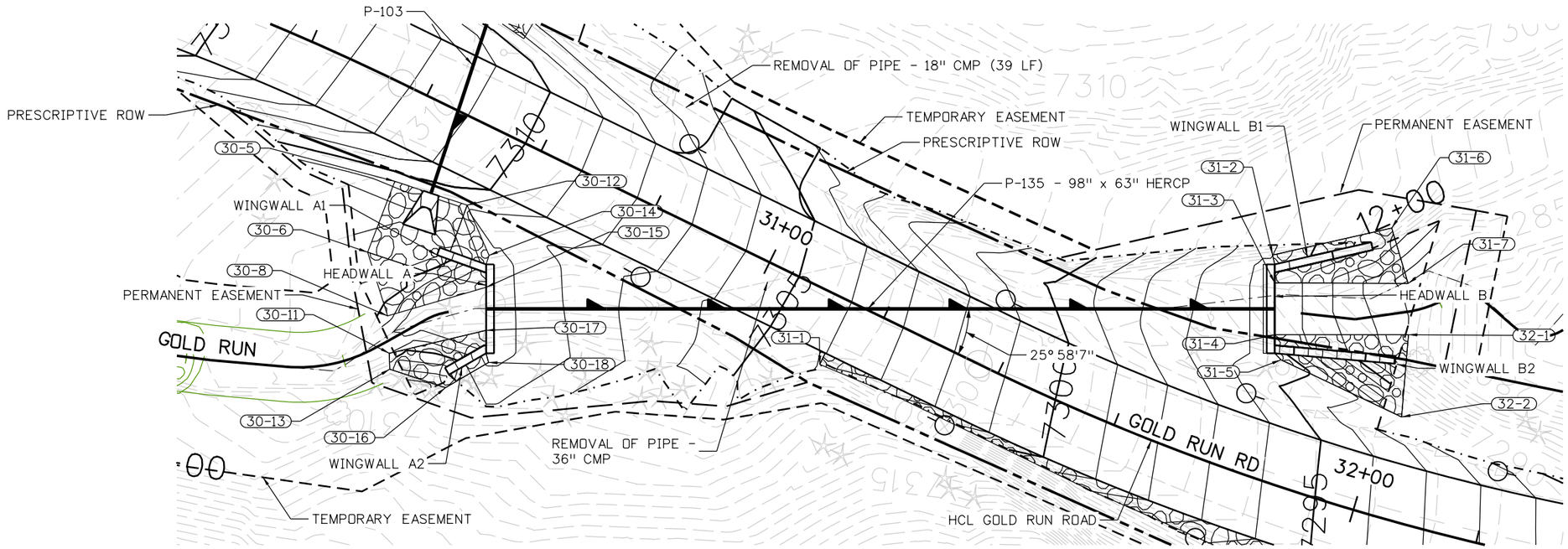
BOULDER COUNTY TRANSPORTATION DEPARTMENT
ENGINEERING DIVISION

DESIGNED:	CAD:	CHECKED:	DATE:
JLW	EMR	SLS	12/23/16

GOLD RUN ROAD
DRAINAGE PLAN AND PROFILE
P-134

PROJECT NO: 4011.SEPT12C38 | SHEET NO: 145

jessica.wray 5:38:13 PM 12/21/2016 pw:\\DCPWAPP1.bkr.mbakercorp.com:pwprod\Documents\Projects\Lakewood_Office\Boulder_County_Emergency_Transportation\T02\08_Sheet_Files\02_Hydraulics\DGN\DPP-11.dgn



P-135

HCL: GOLD RUN ROAD

NOTE:

1. SEE TYPICAL PRECAST BOX CULVERT END DETAILS SHEET FOR DESIGN INFORMATION.

N

10 0 10 20 FT

HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=10'

100% SET

CALL UTILITY NOTIFICATION CENTER OF COLORADO
811
CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES

REVISIONS:	NO.	DATE	REVISION DESCRIPTION:

Boulder County

Michael Baker INTERNATIONAL

BOULDER COUNTY TRANSPORTATION DEPARTMENT
ENGINEERING DIVISION

DESIGNED:	CAD:	CHECKED:	DATE:
JLW	EMR	SLS	12/23/16

GOLD RUN ROAD
DRAINAGE PLAN AND PROFILE
P-135

PROJECT NO: 4011.SEPT12C38 | SHEET NO: 146

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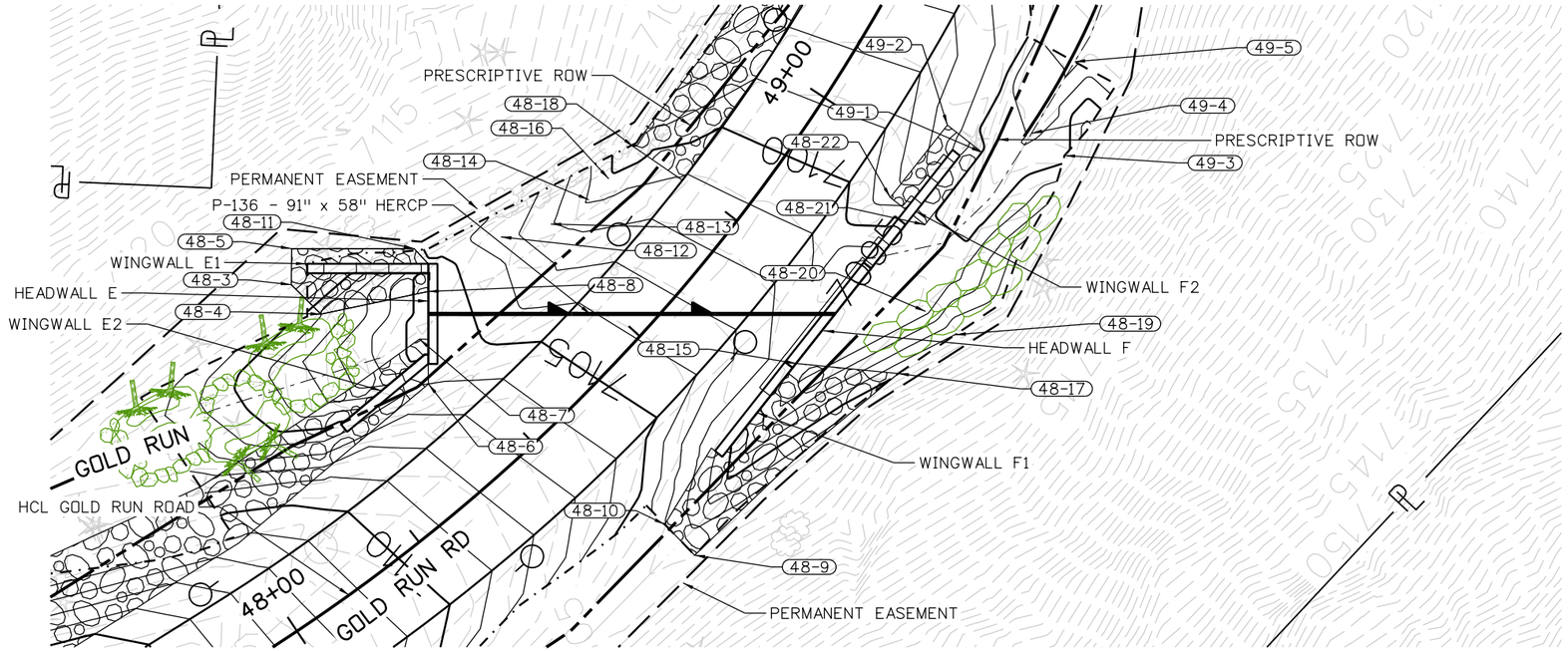

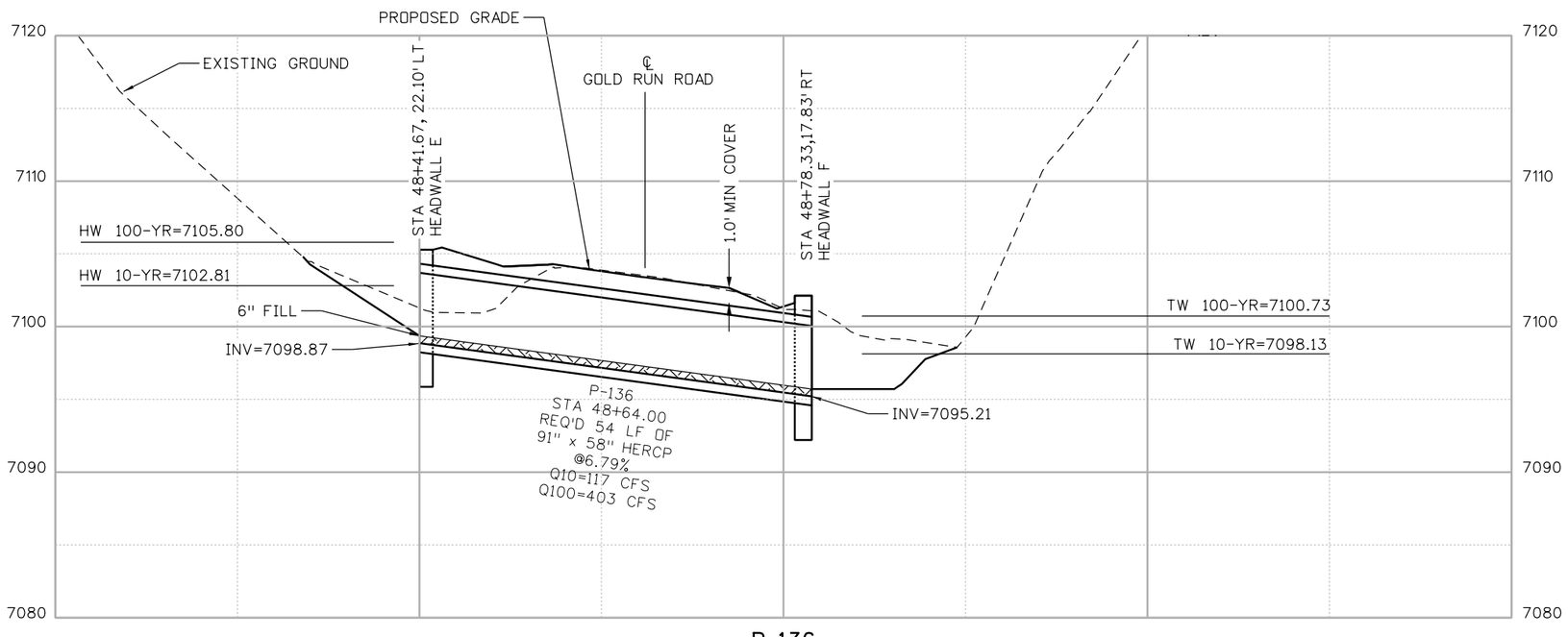

P-136

HCL: GOLD RUN ROAD

NOTE:

1. SEE TYPICAL PRECAST BOX CULVERT END DETAILS SHEET FOR DESIGN INFORMATION.

N

10 0 10 20 FT

HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=10'

100% SET

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811
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REVISIONS:	NO.	DATE	REVISION DESCRIPTION:

Boulder County

BOULDER COUNTY TRANSPORTATION DEPARTMENT
ENGINEERING DIVISION

Michael Baker INTERNATIONAL

DESIGNED:	CAD:	CHECKED:	DATE:
JLW	EMR	SLS	12/23/16

GOLD RUN ROAD
DRAINAGE PLAN AND PROFILE
P-136

PROJECT NO: 4011.SEPT12C38 | SHEET NO: 147

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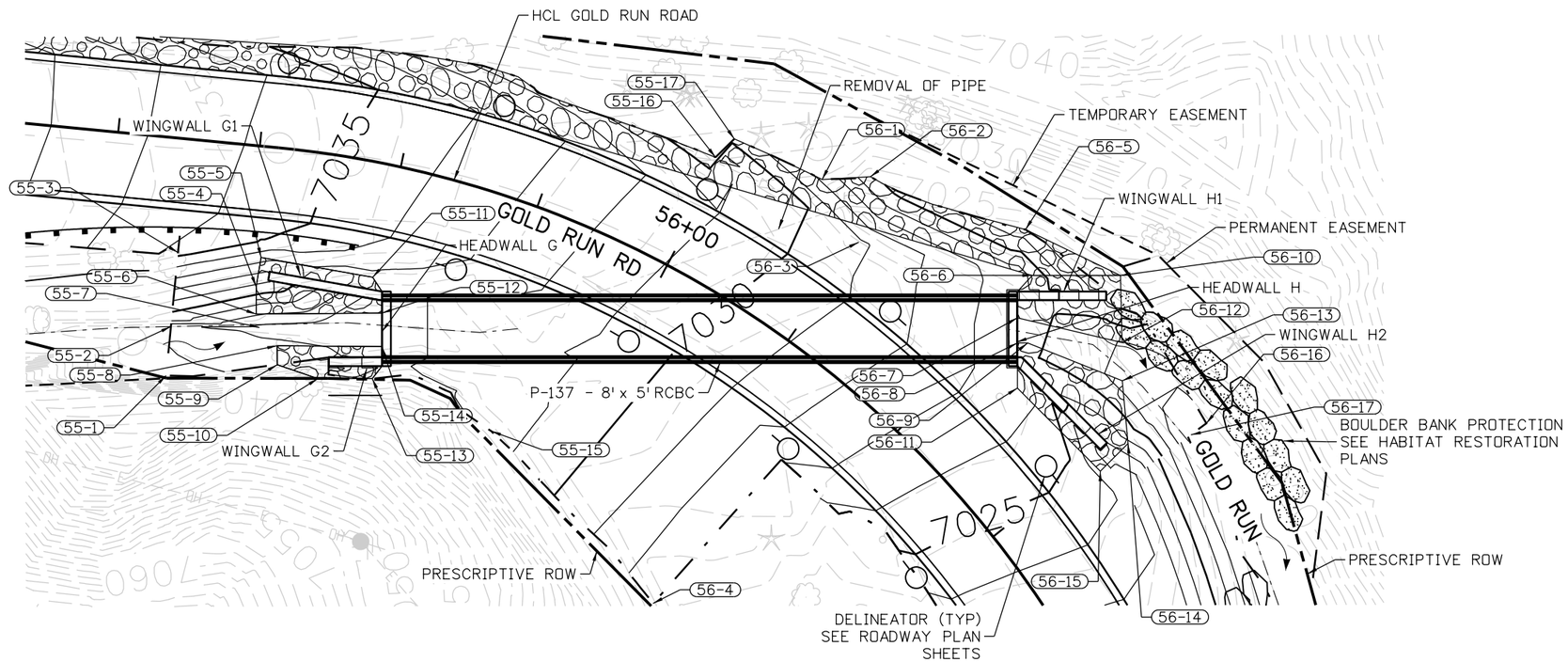

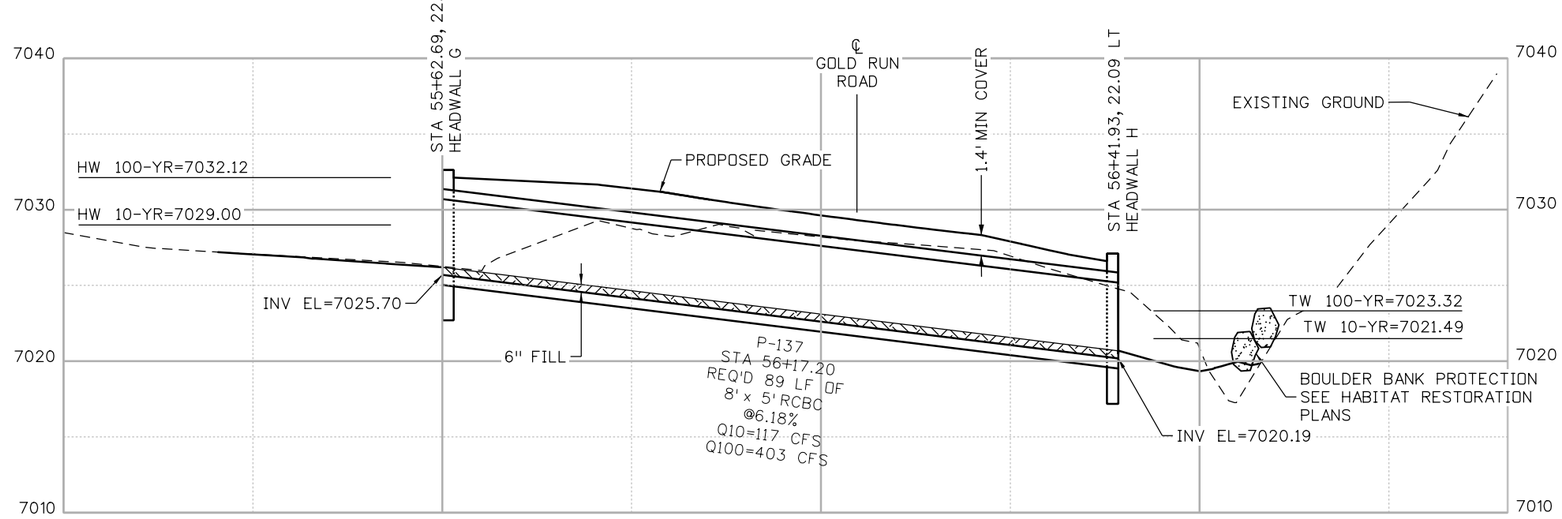

P-137

HCL: GOLD RUN ROAD

NOTE:

1. SEE TYPICAL PRECAST BOX CULVERT END DETAILS SHEET FOR DESIGN INFORMATION.

N

10 0 10 20 FT

HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=10'

100% SET

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Boulder County

Michael Baker INTERNATIONAL

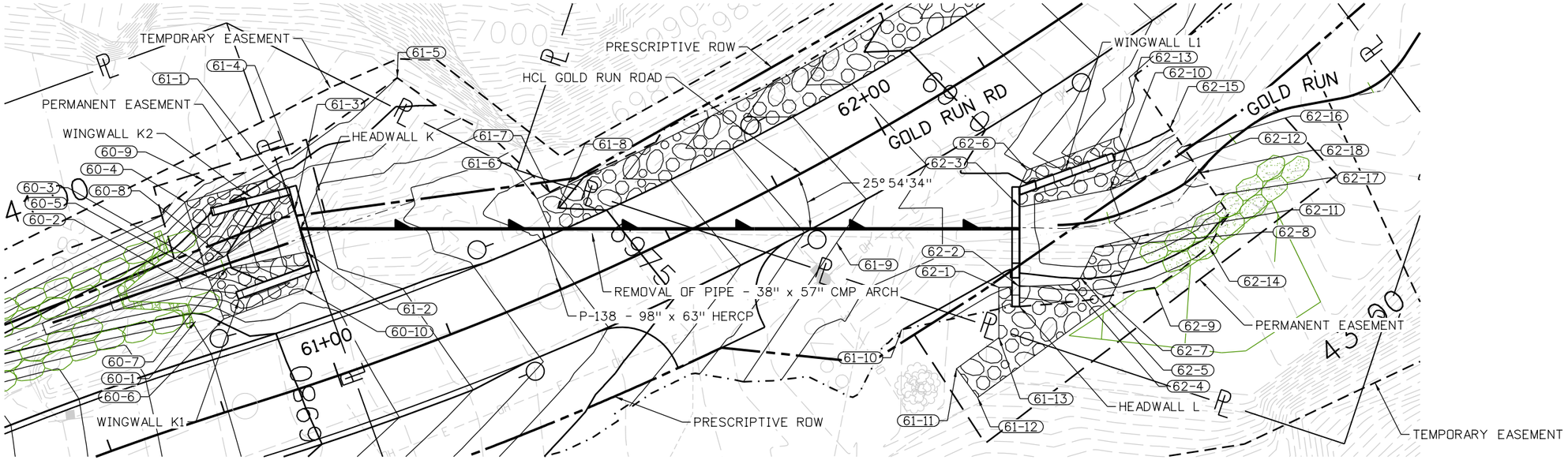
BOULDER COUNTY TRANSPORTATION DEPARTMENT
ENGINEERING DIVISION

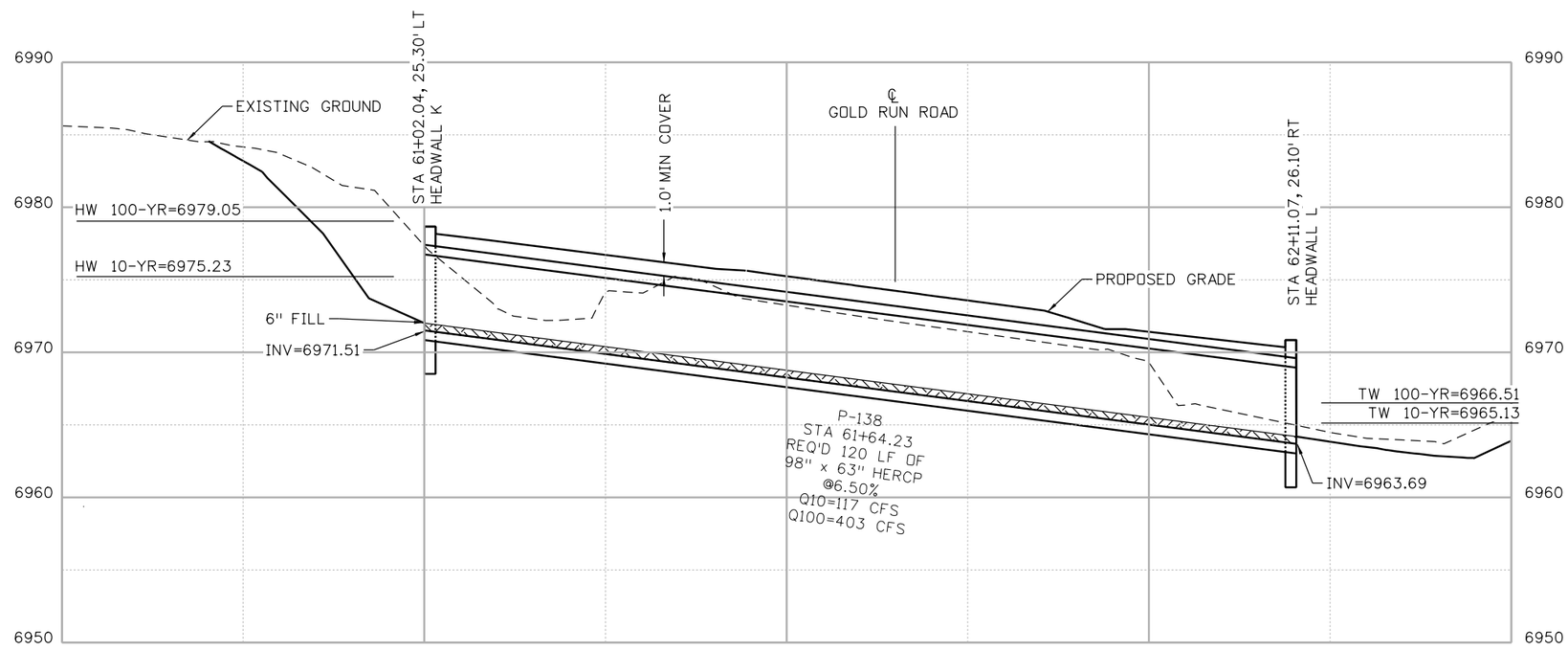
DESIGNED:	CAD:	CHECKED:	DATE:
JLW	EMR	SLS	12/23/16

GOLD RUN ROAD
DRAINAGE PLAN AND PROFILE
P-137

PROJECT NO: 4011.SEPT12C38 | SHEET NO: 148

jessica.wray 5:39:21 PM 12/21/2016 pw:\\DCPWAPP1.bkr.mbakercorp.com:pwprod\Documents\Projects\Lakewood_Office\Boulder_County_Emergency_Transportation\T02\08_Sheet_Files\02_Hydraulics\DGN\DPP-14.dgn





P-138

HCL: GOLD RUN ROAD

NOTE:

1. SEE TYPICAL PRECAST BOX CULVERT END DETAILS SHEET FOR DESIGN INFORMATION.

N

10 0 10 20 FT
HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=10'

100% SET

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811
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Boulder County
Michael Baker INTERNATIONAL

BOULDER COUNTY TRANSPORTATION DEPARTMENT
ENGINEERING DIVISION

DESIGNED:	CAD:	CHECKED:	DATE:
JLW	EMR	SLS	12/23/16

GOLD RUN ROAD
DRAINAGE PLAN AND PROFILE
P-138

PROJECT NO: 4011.SEPT12C38 | SHEET NO: 149

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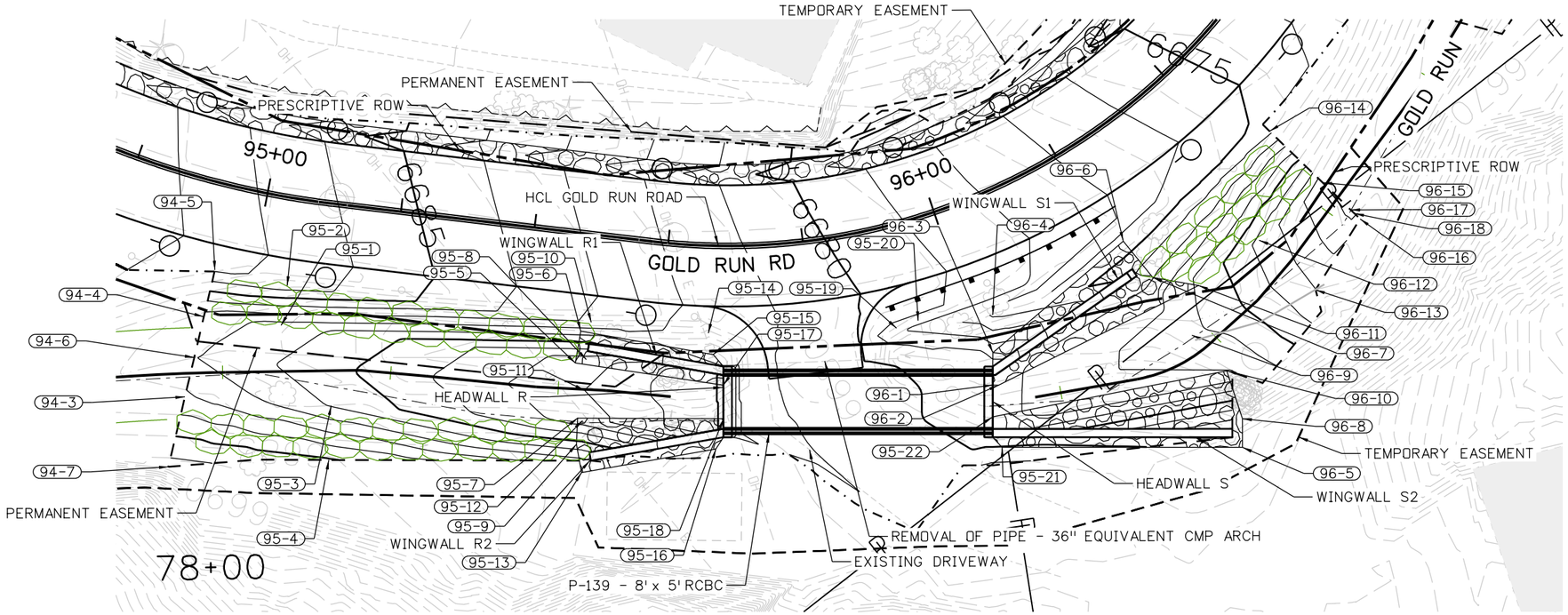

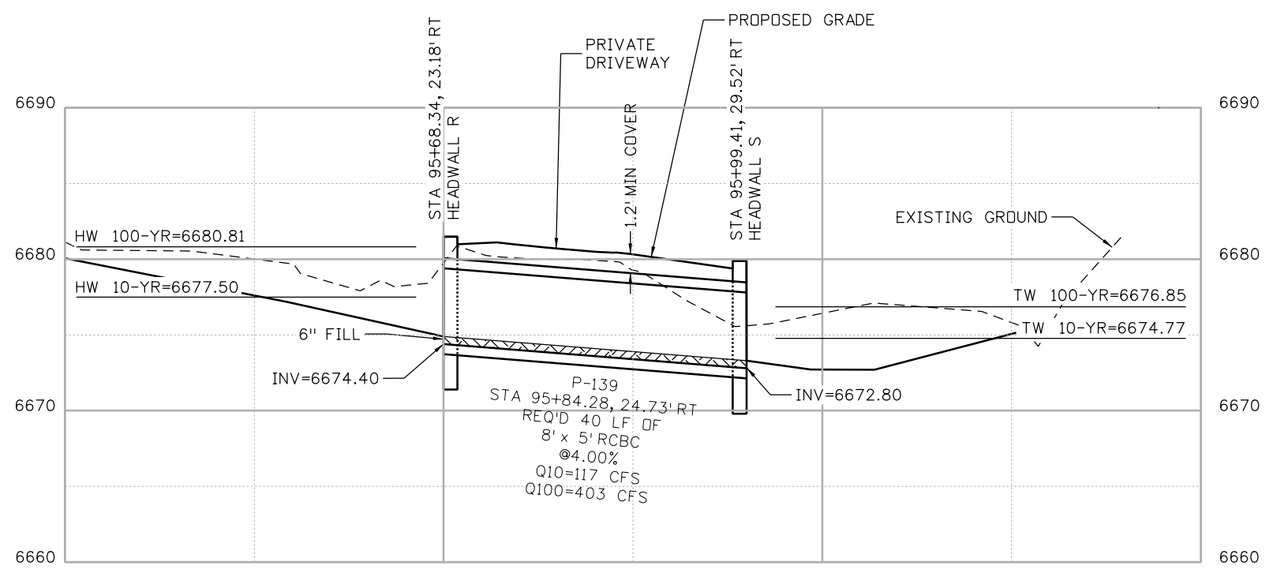

P-139

HCL: GOLD RUN ROAD

NOTE:

1. SEE TYPICAL PRECAST BOX CULVERT END DETAILS SHEET FOR DESIGN INFORMATION.

N

10 0 10 20 FT

HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=10'

100% SET

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Boulder County

BOULDER COUNTY TRANSPORTATION DEPARTMENT
ENGINEERING DIVISION

Michael Baker INTERNATIONAL

DESIGNED:	CAD:	CHECKED:	DATE:
JLW	EMR	SLS	12/23/16

GOLD RUN ROAD
DRAINAGE PLAN AND PROFILE
P-139

PROJECT NO: 4011.SEPT12C38 | SHEET NO: 150

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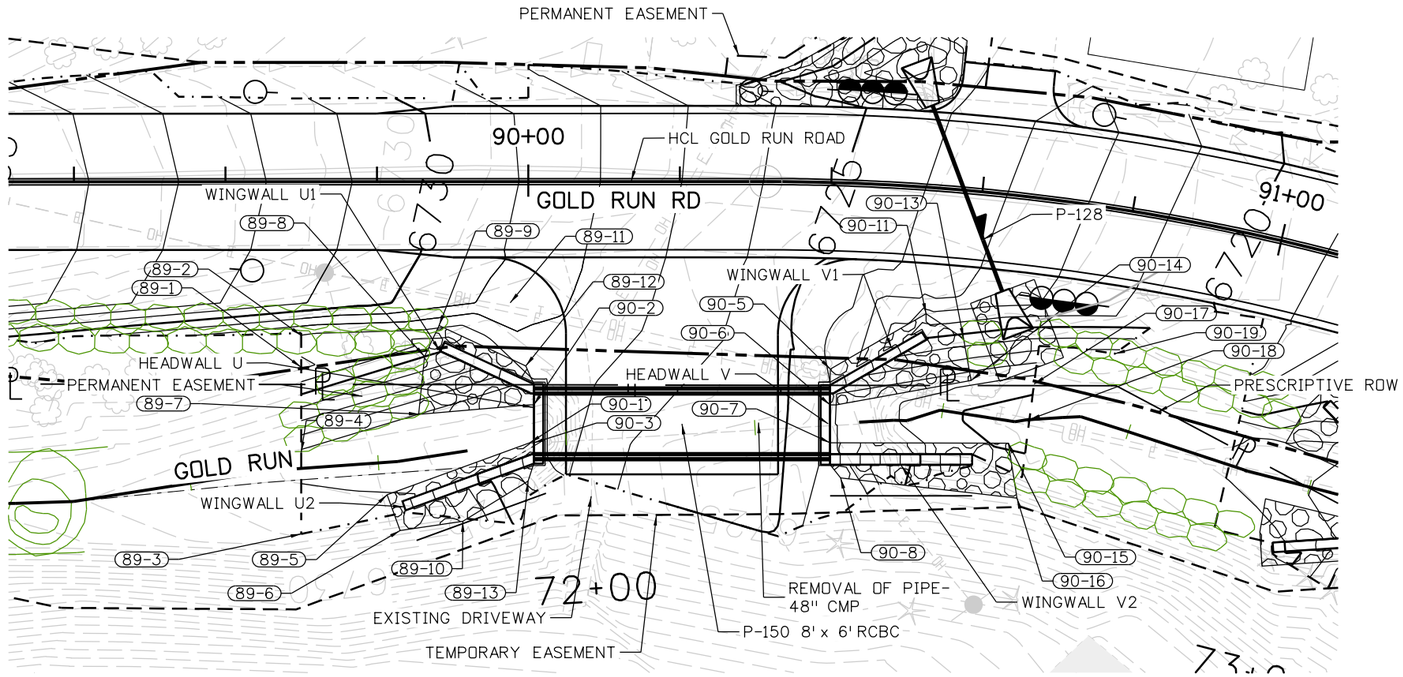

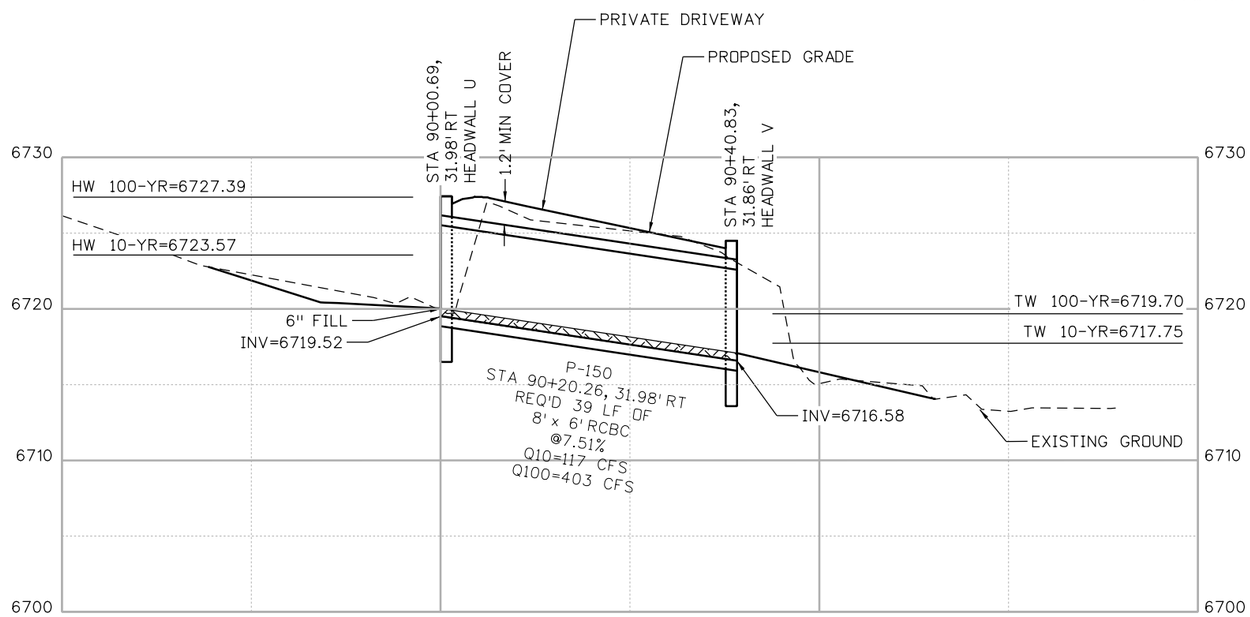

P-150

HCL: GOLD RUN ROAD

NOTE:

1. SEE TYPICAL PRECAST BOX CULVERT END DETAILS SHEET FOR DESIGN INFORMATION.

N

10 0 10 20 FT

HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=10'

100% SET

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811
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REVISIONS:	NO.	DATE	REVISION DESCRIPTION:

Boulder County

Michael Baker INTERNATIONAL

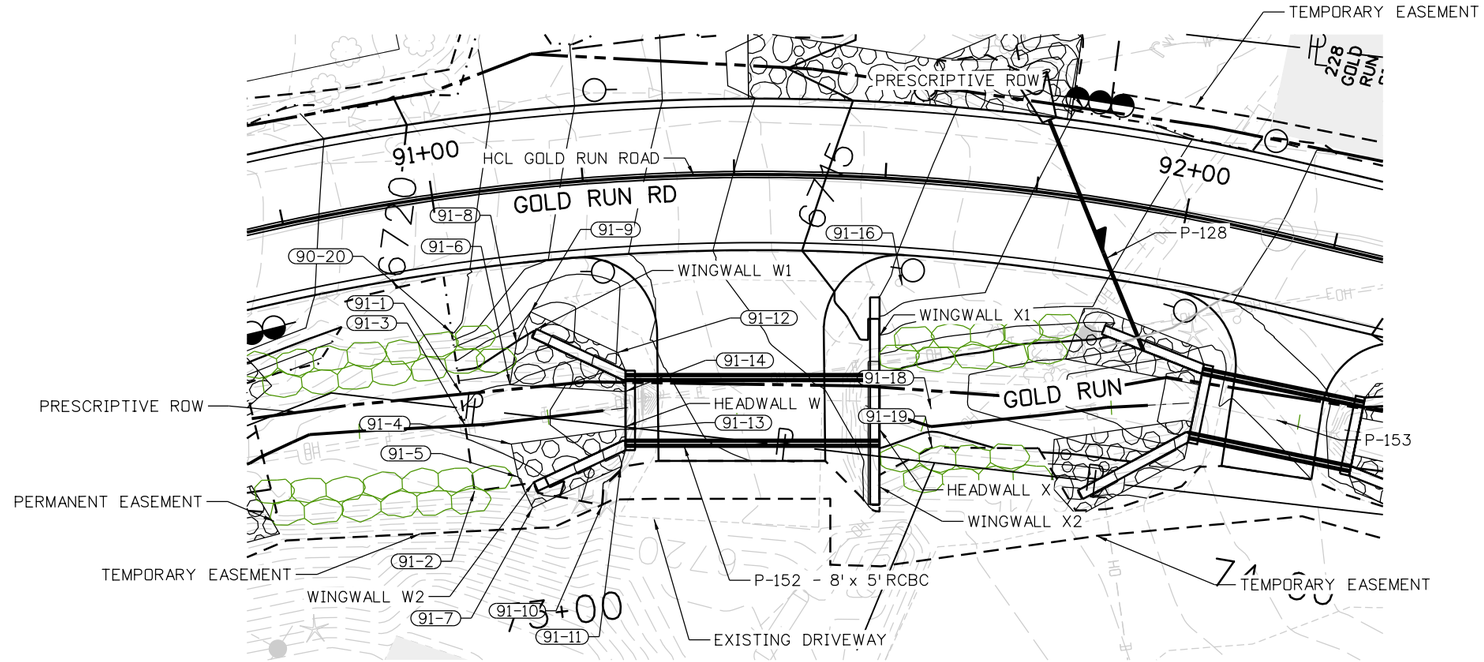
BOULDER COUNTY TRANSPORTATION DEPARTMENT
ENGINEERING DIVISION

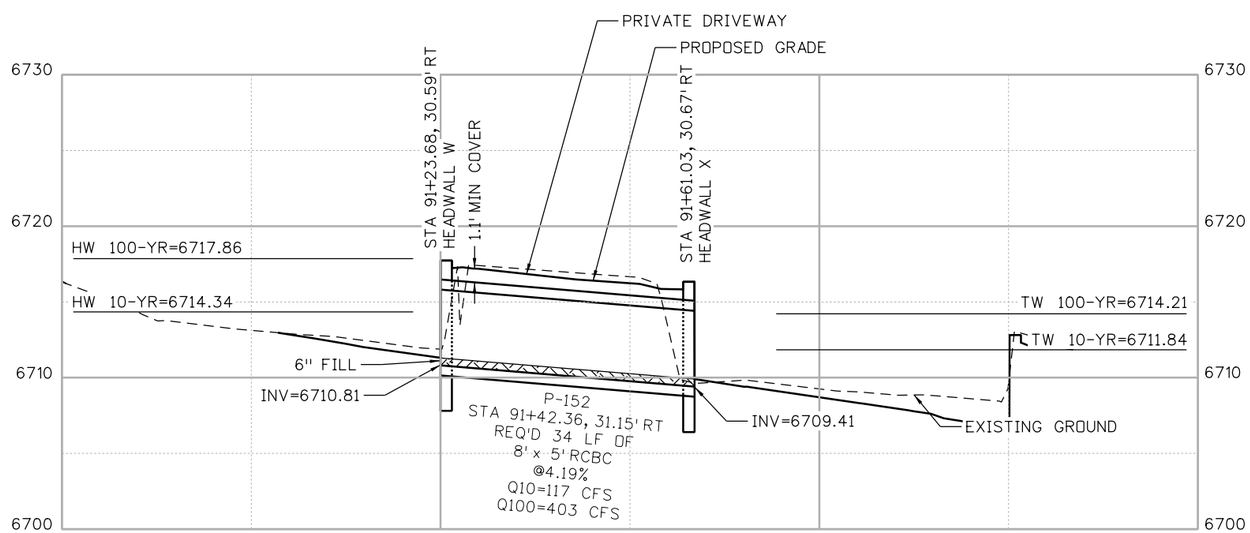
DESIGNED:	CAD:	CHECKED:	DATE:
JLW	EMR	SLS	12/23/16

GOLD RUN ROAD
DRAINAGE PLAN AND PROFILE
P-150

PROJECT NO: 4011.SEPT12C38 | SHEET NO: 151

jessica.wroy 6:26:51 PM 12/21/2016 pw:\\DCPWAPP1.bkr.mbakercorp.com:pwprod\Documents\Projects\Lakewood_Office\Boulder_County_Emergency_Transportation\T02\08_Sheet_Files\02_Hydraulics\DGN\DPP-17.dgn





P-152

HCL: GOLD RUN ROAD

NOTE:

1. SEE TYPICAL PRECAST BOX CULVERT END DETAILS SHEET FOR DESIGN INFORMATION.

N

10 0 10 20 FT

HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=10'

100% SET

CALL UTILITY NOTIFICATION CENTER OF COLORADO
811
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REVISIONS:	NO.	DATE	REVISION DESCRIPTION:

Boulder County

BOULDER COUNTY TRANSPORTATION DEPARTMENT
ENGINEERING DIVISION

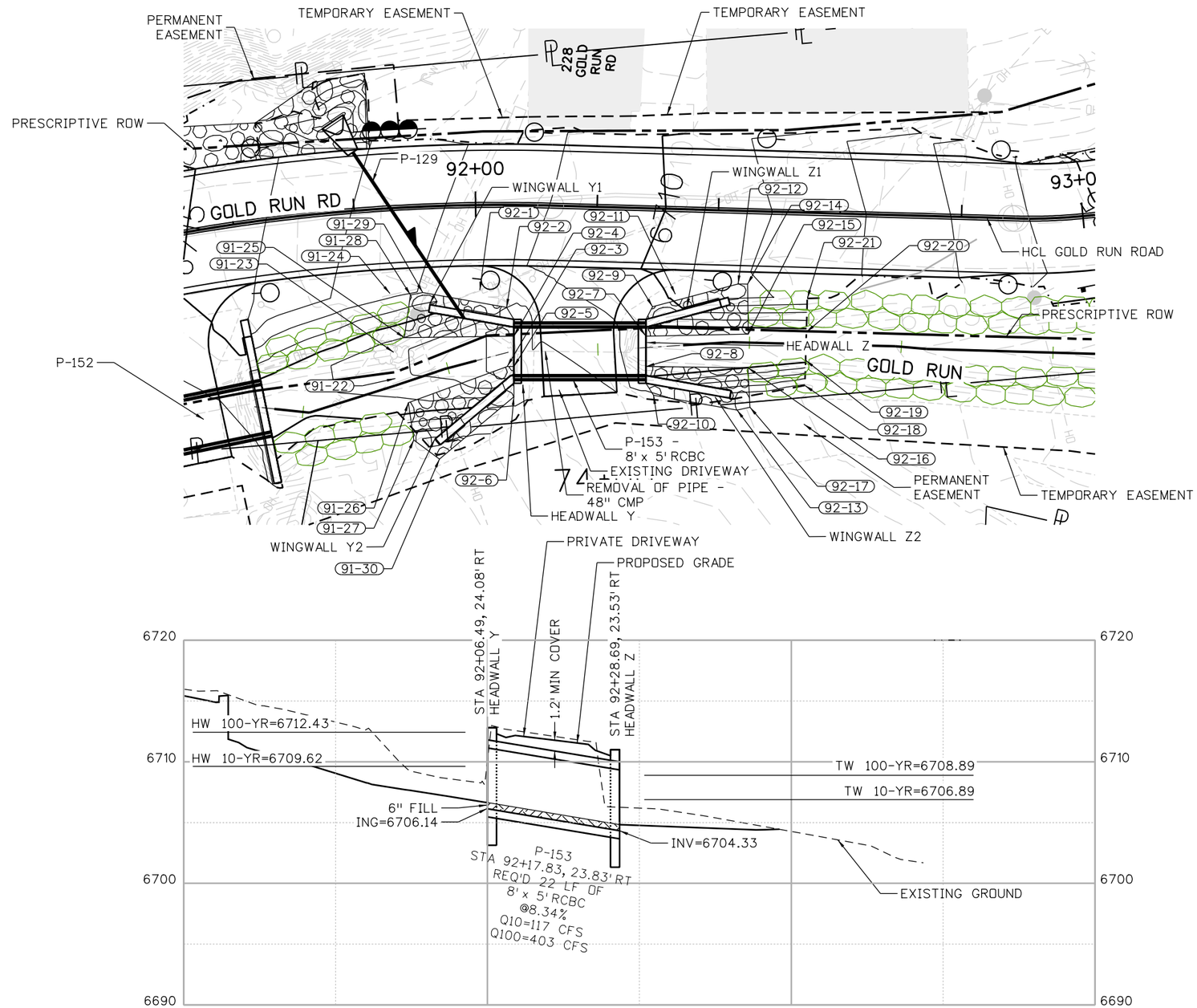
Michael Baker INTERNATIONAL

DESIGNED:	CAD:	CHECKED:	DATE:
JLW	EMR	SLS	12/23/16

GOLD RUN ROAD
DRAINAGE PLAN AND PROFILE
P-152

PROJECT NO: 4011.SEPT12C38 | SHEET NO: 152

jessica.wroy 5:40:43 PM 12/21/2016 pw:\\DCPWAPP1.bkr.mbakercorp.com:pwprod\Documents\Projects\Lakewood_Office\Boulder_County_Emergency_Transportation\T02\08_Sheet_Files\02_Hydraulics\DGN\DPP-18.dgn



P-153

HCL: GOLD RUN ROAD

NOTE:

1. SEE TYPICAL PRECAST BOX CULVERT END DETAIL SHEET FOR DESIGN INFORMATION.

N

10 0 10 20 FT

HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=10'

100% SET

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Boulder County

Michael Baker INTERNATIONAL

BOULDER COUNTY TRANSPORTATION DEPARTMENT
ENGINEERING DIVISION

DESIGNED:	CAD:	CHECKED:	DATE:
JLW	EMR	SLS	12/23/16

GOLD RUN ROAD
DRAINAGE PLAN AND PROFILE
P-153

PROJECT NO: 4011.SEPT12C38 | SHEET NO: 153

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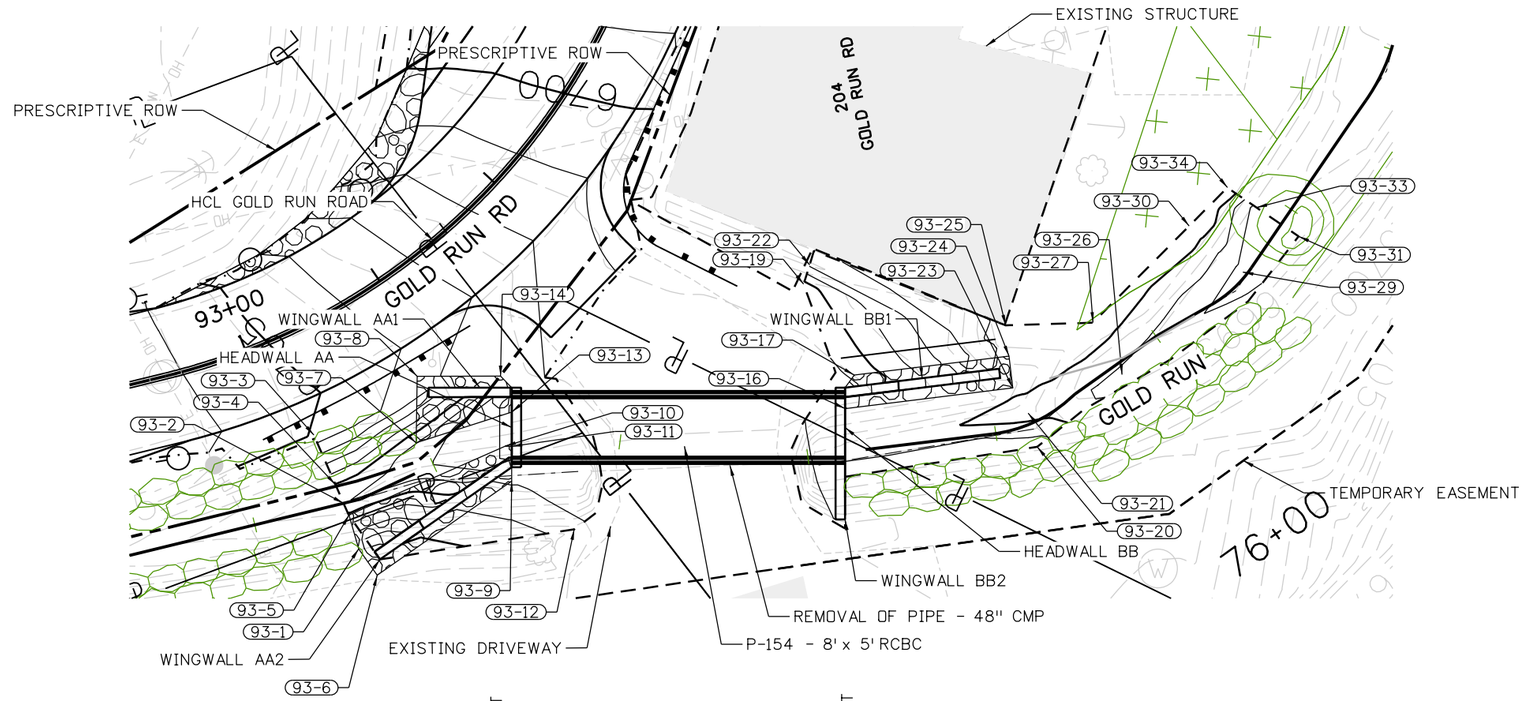

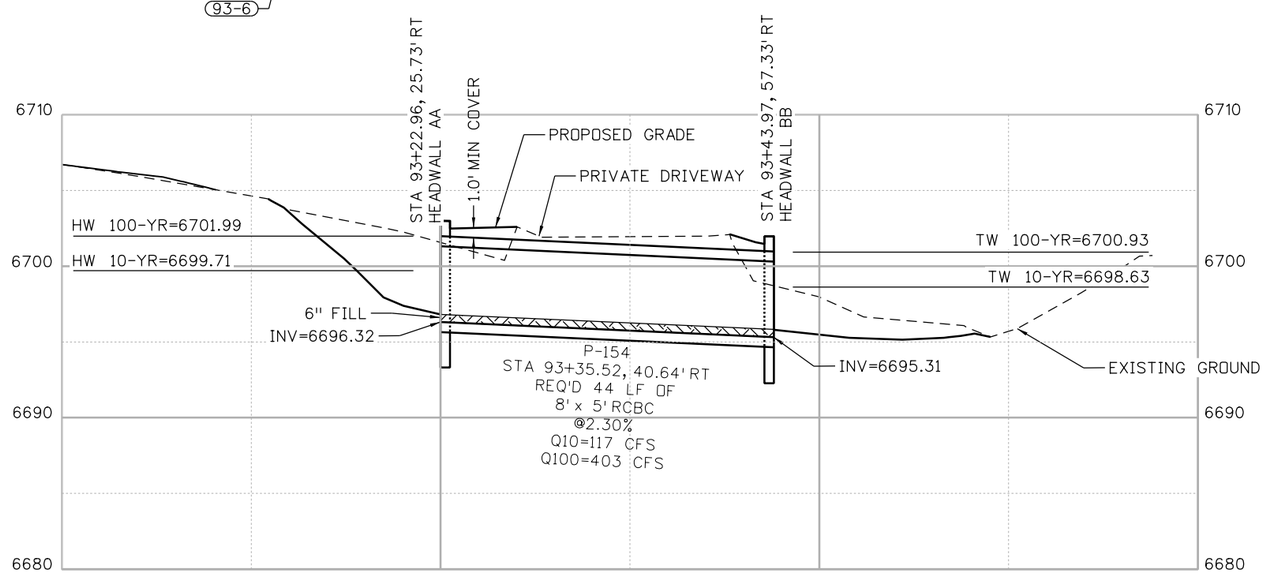

P-154

HCL: GOLD RUN ROAD

NOTE:

1. SEE TYPICAL PRECAST BOX CULVERT END DETAIL SHEET FOR DESIGN INFORMATION.

N

10 0 10 20 FT
HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=10'

100% SET

CALL UTILITY NOTIFICATION CENTER OF COLORADO
CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES

REVISIONS:	NO.	DATE	REVISION DESCRIPTION:

BOULDER COUNTY TRANSPORTATION DEPARTMENT
ENGINEERING DIVISION
Michael Baker INTERNATIONAL

DESIGNED:	CAD:	CHECKED:	DATE:
JLW	EMR	SLS	12/23/16

GOLD RUN ROAD
DRAINAGE PLAN AND PROFILE
P-154

PROJECT NO: 4011.SEPT12C38 | SHEET NO: 154

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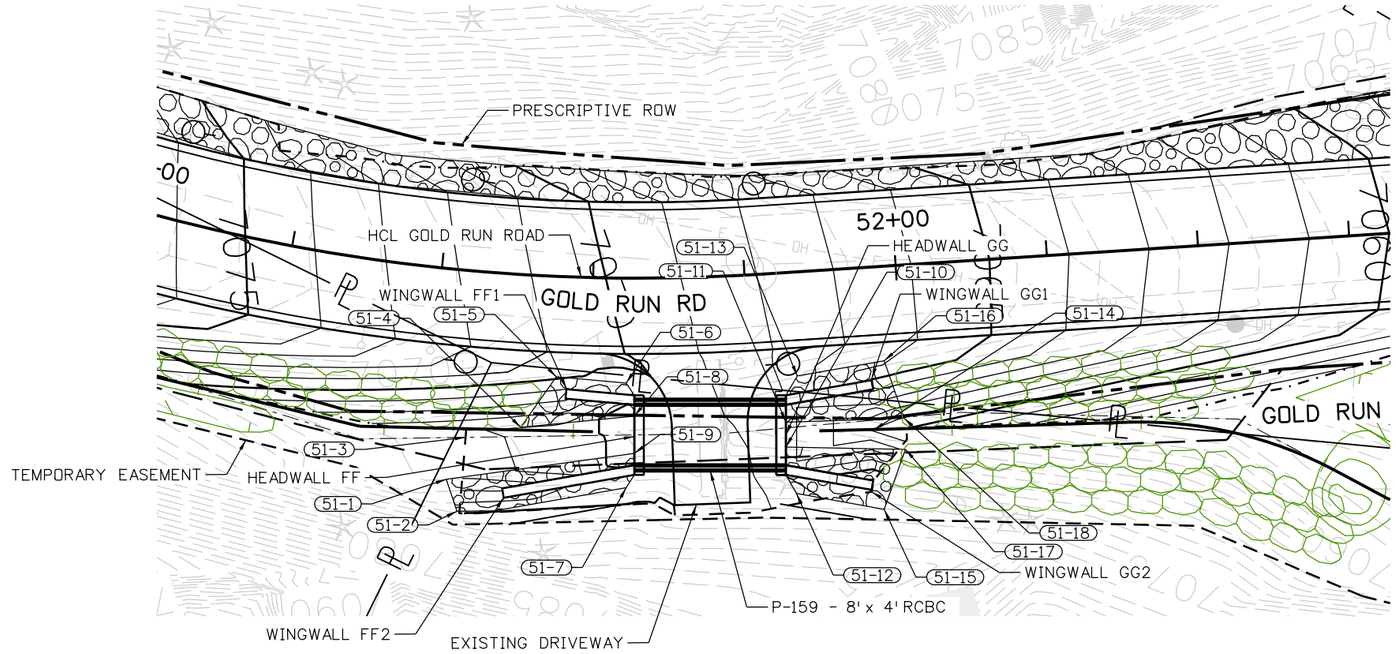

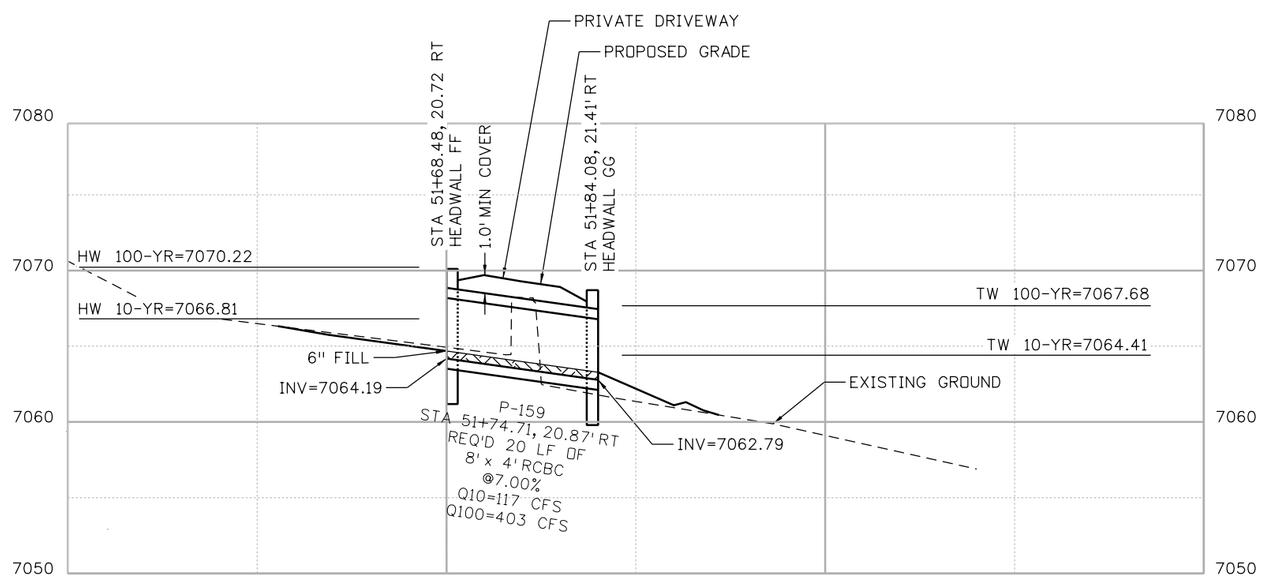

P-159
HCL: GOLD RUN ROAD

NOTE:

1. SEE TYPICAL PRECAST BOX CULVERT END DETAIL SHEET FOR DESIGN INFORMATION.

N

10 0 10 20 FT
HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=10'

100% SET

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REVISIONS:	NO.	DATE	REVISION DESCRIPTION:

Boulder County
Michael Baker INTERNATIONAL

BOULDER COUNTY TRANSPORTATION DEPARTMENT
ENGINEERING DIVISION

DESIGNED:	CAD:	CHECKED:	DATE:
JLW	EMR	SLS	12/23/16

GOLD RUN ROAD
DRAINAGE PLAN AND PROFILE
P-159

PROJECT NO: 4011.SEPT12C38 SHEET NO: 155

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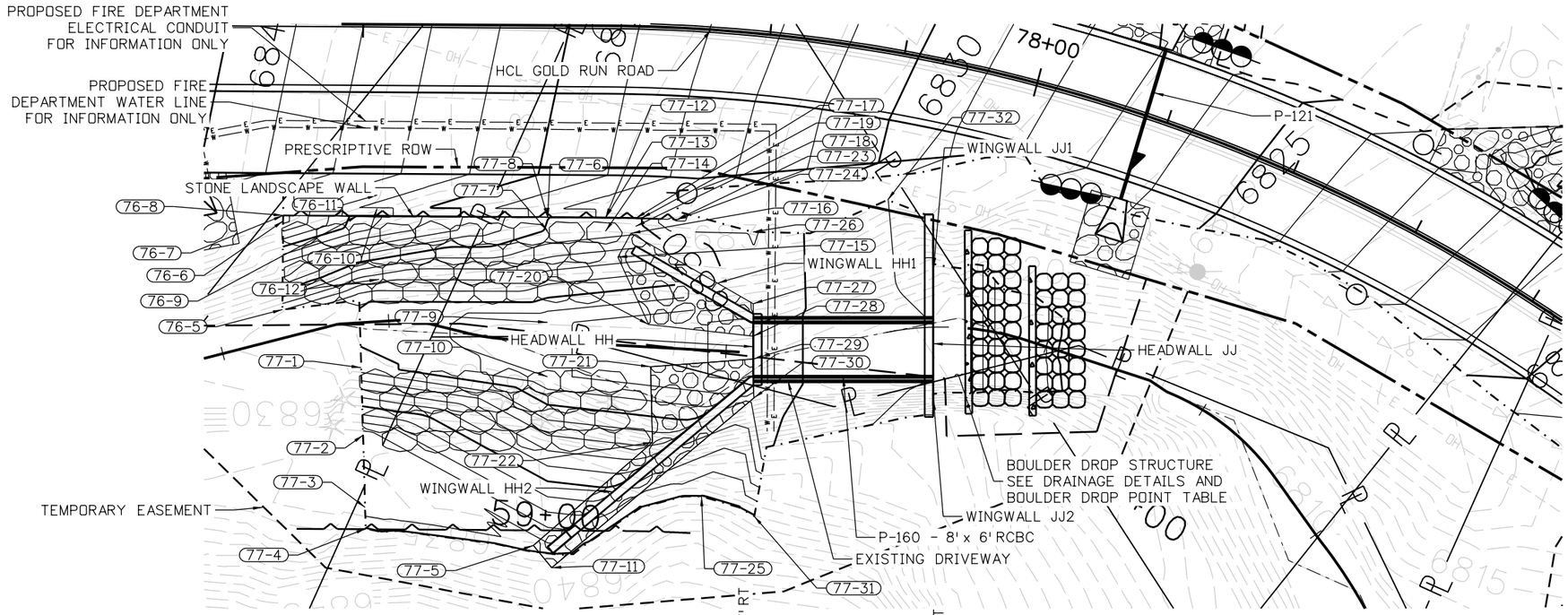

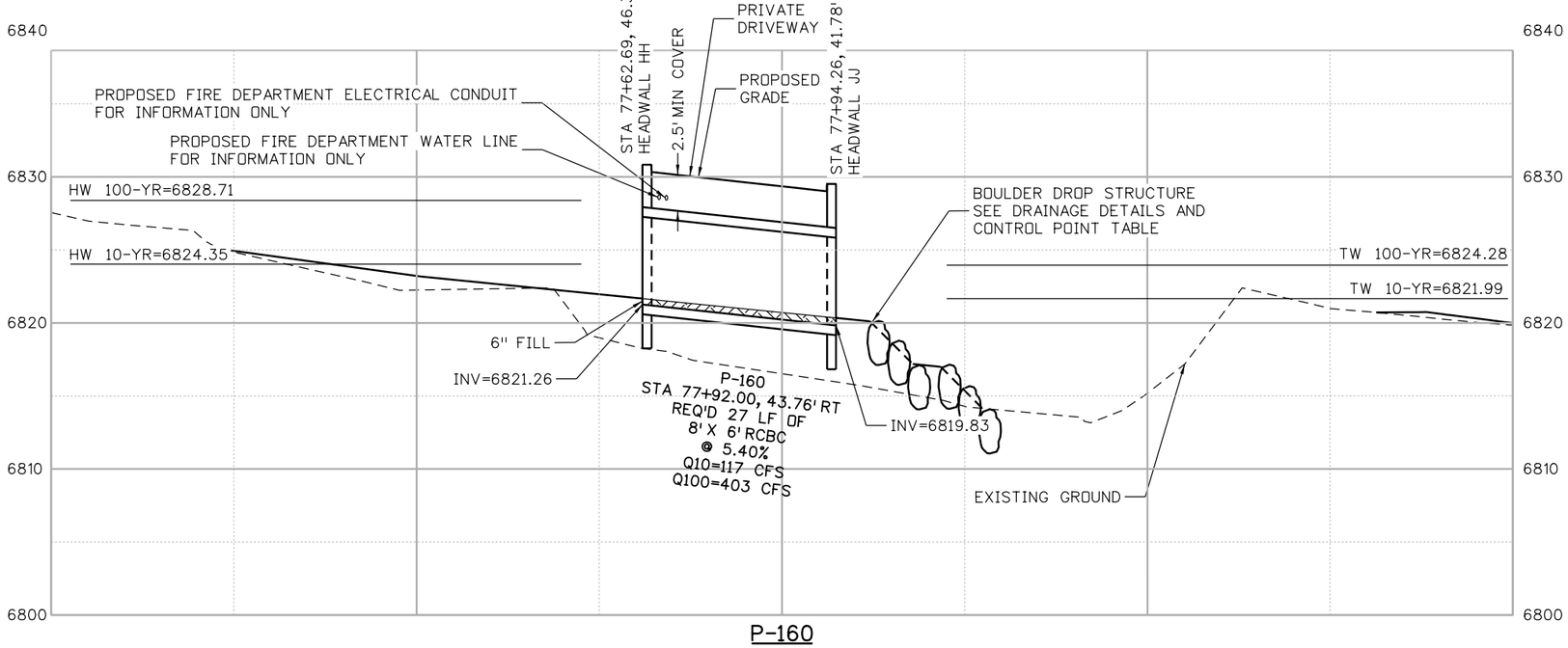

P-160

HCL: GOLD RUN ROAD

NOTE:

1. SEE TYPICAL PRECAST BOX CULVERT END DETAIL SHEET FOR DESIGN INFORMATION.

N

10 0 10 20 FT

HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=10'

100% SET

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REVISIONS:	NO.	DATE	REVISION DESCRIPTION:

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BOULDER COUNTY TRANSPORTATION DEPARTMENT
ENGINEERING DIVISION

Michael Baker INTERNATIONAL

DESIGNED:	CAD:	CHECKED:	DATE:
JLW	EMR	SLS	12/23/16

GOLD RUN ROAD
DRAINAGE PLAN AND PROFILE
P-160

PROJECT NO: 4011.SEPT12C38 | SHEET NO: 156

jessica.wroy 6:31:46 PM 12/21/2016 pw:\\DCPWAPP1.bkr.mbakercorp.com:pwprod\Documents\Projects\Lakewood_Office\Boulder_County_Emergency_Transportation\T02\08_Sheet_Files\02_Hydraulics\DGN\DPP-22.dgn

DRAINAGE POINT TABLE

PT #	STATION	OFFSET	ELEV.	DESC.
20-1	20+95.27	12.51' LT	7384.80	GUTTER
21-1	21+14.26	14.01' LT	7383.63	GUTTER
21-2	21+48.63	15.92' LT	7382.35	GUTTER
21-3	21+60.77	33.45' RT	7377.92	GRADING POINT
21-4	21+61.27	15.30' LT	7381.46	GUTTER
21-5	21+66.76	24.85' RT	7378.65	GRADING POINT
21-6	21+71.33	14.52' LT	7381.21	RIPRAP LIMITS
21-7	21+73.67	27.55' LT	7381.74	GRADING POINT
21-8	21+76.33	17.25' RT	7377.48	RIPRAP LIMITS
21-9	21+78.36	31.92' LT	7381.69	RIPRAP LIMITS
21-10	21+83.77	34.45' LT	7382.46	RIPRAP LIMITS
21-11	21+94.54	10.50' LT	7379.56	RIPRAP LIMITS
21-12	21+94.86	33.84' LT	7382.72	RIPRAP LIMITS
21-13	21+97.43	16.85' RT	7378.00	RIPRAP LIMITS
21-14	21+97.92	21.72' LT	7380.44	RIPRAP LIMITS
22-1	22+00.51	25.57' LT	7382.22	GRADING POINT
22-2	22+04.98	24.30' RT	7377.60	GRADING POINT
22-3	22+10.33	34.36' RT	7375.88	GRADING POINT
22-4	22+32.88	11.21' RT	7376.75	GUTTER
22-5	22+46.66	11.39' RT	7375.77	GUTTER
23-1	23+40.32	11.00' RT	7367.96	GUTTER
23-2	23+59.13	11.00' RT	7366.15	GUTTER
23-3	23+71.75	20.81' RT	7361.66	RIPRAP LIMITS
23-4	23+75.70	9.00' RT	7363.59	RIPRAP LIMITS
23-5	23+80.76	15.48' RT	7361.75	RIPRAP LIMITS
25-1	25+71.60	16.68' LT	7346.00	RIPRAP LIMITS
26-1	26+06.11	18.40' LT	7345.00	RIPRAP LIMITS
26-2	26+48.33	33.83' LT	7345.64	GRADING POINT
26-3	26+53.93	24.59' LT	7340.05	DITCH CL
26-4	26+62.88	29.84' LT	7339.97	RIPRAP LIMITS
26-5	26+63.24	27.82' LT	7339.03	DITCH CL
26-6	26+64.11	45.24' LT	7345.21	GRADING POINT
26-7	26+64.52	24.10' LT	7340.45	RIPRAP LIMITS
26-8	26+68.59	36.00' LT	7340.00	RIPRAP LIMITS
26-9	26+75.66	55.63' LT	7343.00	GRADING POINT
26-10	26+75.75	27.02' LT	7340.00	RIPRAP LIMITS
26-11	26+76.90	41.87' LT	7340.13	RIPRAP LIMITS
26-12	26+77.34	47.61' LT	7341.00	GRADING POINT
26-13	26+81.09	43.19' LT	7340.32	RIPRAP LIMITS
26-14	26+83.77	50.00' LT	7344.68	GRADING POINT
26-15	26+86.10	36.11' LT	7340.27	RIPRAP LIMITS
26-16	26+86.35	40.21' LT	7340.32	RIPRAP LIMITS
26-17	26+91.43	38.48' LT	7343.00	GRADING POINT
27-1	27+22.25	16.00' LT	7339.91	RIPRAP LIMITS
28-1	28+44.98	13.00' LT	7329.98	GUTTER
28-2	28+62.01	13.00' LT	7328.39	GUTTER
29-1	29+04.77	16.00' LT	7323.29	RIPRAP LIMITS
29-2	29+11.08	25.38' LT	7325.73	GRADING POINT
29-3	29+13.26	18.59' LT	7322.17	RIPRAP LIMITS
29-4	29+18.29	24.98' LT	7325.00	GRADING POINT
29-5	29+23.87	19.76' LT	7323.87	RIPRAP LIMITS
29-6	29+44.47	16.00' LT	7321.00	RIPRAP LIMITS
29-7	29+55.48	9.00' LT	7320.00	RIPRAP LIMITS
29-8	29+61.31	15.68' LT	7319.00	RIPRAP LIMITS
29-9	29+63.36	12.95' LT	7318.31	RIPRAP LIMITS
30-1	30+34.18	17.41' LT	7309.20	RIPRAP LIMITS

DRAINAGE POINT TABLE

PT #	STATION	OFFSET	ELEV.	DESC.
30-2	30+35.00	28.46' LT	7313.05	GRADING POINT
30-3	30+35.00	20.09' LT	7307.78	RIPRAP LIMITS
30-4	30+35.00	25.65' LT	7309.24	RIPRAP LIMITS
30-5	30+41.35	14.36' RT	7309.37	RIPRAP LIMITS
30-6	30+42.42	26.27' RT	7306.58	RIPRAP LIMITS
30-7	30+43.14	27.45' LT	7311.64	GRADING POINT
30-8	30+49.63	33.90' RT	7304.36	RIPRAP LIMITS
30-9	30+49.79	14.74' LT	7309.15	RIPRAP LIMITS
30-10	30+50.62	24.61' LT	7309.43	RIPRAP LIMITS
30-11	30+52.45	39.07' RT	7304.01	RIPRAP LIMITS
30-12	30+53.24	12.75' RT	7309.17	RIPRAP LIMITS
30-13	30+53.59	41.32' RT	7306.55	RIPRAP LIMITS
30-14	30+59.80	18.34' RT	7309.17	RIPRAP LIMITS
30-15	30+61.59	23.08' RT	7302.33	RIPRAP LIMITS
30-16	30+62.76	40.08' RT	7307.39	RIPRAP LIMITS
30-17	30+64.55	29.17' RT	7302.33	RIPRAP LIMITS
30-18	30+67.12	33.54' RT	7309.09	RIPRAP LIMITS
31-1	31+14.14	11.00' RT	7303.69	RIPRAP LIMITS
31-2	31+74.08	34.06' LT	7296.00	RIPRAP LIMITS
31-3	31+76.08	30.05' LT	7289.91	RIPRAP LIMITS
31-4	31+79.06	22.39' LT	7289.91	RIPRAP LIMITS
31-5	31+81.42	18.98' LT	7295.62	RIPRAP LIMITS
31-6	31+92.25	44.21' LT	7293.19	RIPRAP LIMITS
31-7	31+97.92	36.64' LT	7285.67	RIPRAP LIMITS
32-1	32+00.50	28.90' LT	7285.81	RIPRAP LIMITS
32-2	32+03.24	16.18' LT	7292.99	RIPRAP LIMITS
32-3	32+86.00	16.92' RT	7284.79	RIPRAP LIMITS
33-1	33+74.38	15.89' RT	7276.00	RIPRAP LIMITS
34-1	34+40.98	25.13' RT	7271.00	GRADING POINT
34-2	34+52.46	28.91' RT	7270.00	GRADING POINT
34-3	34+54.42	22.04' RT	7266.57	RIPRAP LIMITS
34-4	34+58.80	19.03' RT	7264.93	RIPRAP LIMITS
34-5	34+65.19	21.39' RT	7270.00	GRADING POINT
34-6	34+69.40	17.00' RT	7266.39	RIPRAP LIMITS
40-1	40+38.05	17.00' RT	7201.94	RIPRAP LIMITS
40-2	40+38.12	13.43' RT	7200.19	RIPRAP LIMITS
42-1	42+16.21	11.90' RT	7182.00	RIPRAP LIMITS
42-2	42+21.26	16.85' RT	7180.00	GRADING POINT
42-3	42+36.61	21.32' RT	7178.75	GRADING POINT
42-4	42+39.99	20.29' RT	7178.00	RIPRAP LIMITS
42-5	42+59.71	21.32' RT	7178.12	RIPRAP LIMITS
42-6	42+68.23	10.16' RT	7177.00	RIPRAP LIMITS
43-1	43+49.96	24.04' LT	7162.09	RIPRAP LIMITS
43-2	43+50.00	22.12' LT	7161.96	RIPRAP LIMITS
43-3	43+50.00	14.34' LT	7166.27	RIPRAP LIMITS
43-4	43+50.04	30.41' LT	7166.98	RIPRAP LIMITS
43-5	43+61.48	22.31' LT	7161.00	RIPRAP LIMITS
43-6	43+61.48	22.90' LT	7161.02	RIPRAP LIMITS
43-7	43+62.35	35.72' LT	7171.30	RIPRAP LIMITS
43-8	43+85.38	30.75' LT	7166.90	RIPRAP LIMITS
43-9	43+85.99	17.50' LT	7159.43	RIPRAP LIMITS
43-10	43+86.30	25.95' LT	7159.43	RIPRAP LIMITS
43-11	43+87.32	12.95' LT	7165.56	RIPRAP LIMITS
44-1	44+13.81	17.17' LT	7157.47	RIPRAP LIMITS
44-2	44+13.81	24.67' LT	7157.47	RIPRAP LIMITS
44-3	44+14.90	30.56' LT	7165.09	RIPRAP LIMITS

DRAINAGE POINT TABLE

PT #	STATION	OFFSET	ELEV.	DESC.
44-4	44+15.08	11.73' LT	7163.02	RIPRAP LIMITS
44-5	44+34.27	37.08' LT	7165.16	RIPRAP LIMITS
44-6	44+35.35	22.55' LT	7156.00	RIPRAP LIMITS
44-7	44+35.47	32.33' LT	7162.77	RIPRAP LIMITS
44-8	44+39.96	20.43' LT	7154.86	RIPRAP LIMITS
44-9	44+47.69	13.04' LT	7158.98	RIPRAP LIMITS
44-10	44+85.08	20.92' LT	7151.14	RIPRAP LIMITS
45-1	45+05.18	18.26' LT	7149.45	RIPRAP LIMITS
45-2	45+72.56	18.25' LT	7142.35	RIPRAP LIMITS
45-3	45+89.56	12.90' LT	7144.00	RIPRAP LIMITS
45-4	45+89.99	20.25' LT	7140.45	RIPRAP LIMITS
45-5	45+90.32	18.19' LT	7140.40	RIPRAP LIMITS
46-1	46+02.11	24.68' LT	7138.20	RIPRAP LIMITS
46-2	46+04.36	33.61' LT	7142.63	RIPRAP LIMITS
46-3	46+13.57	15.51' LT	7140.85	RIPRAP LIMITS
46-4	46+14.96	20.26' LT	7135.60	RIPRAP LIMITS
46-5	46+15.06	29.95' LT	7140.64	RIPRAP LIMITS
46-6	46+15.70	24.93' LT	7135.60	RIPRAP LIMITS
46-7	46+18.32	9.00' RT	7139.75	RIPRAP LIMITS
46-8	46+48.36	23.69' LT	7131.25	RIPRAP LIMITS
46-9	46+48.88	29.24' LT	7136.08	RIPRAP LIMITS
46-10	46+48.97	19.75' LT	7131.24	RIPRAP LIMITS
46-11	46+50.97	14.34' LT	7136.05	RIPRAP LIMITS
46-12	46+59.29	33.64' LT	7136.00	RIPRAP LIMITS
46-13	46+61.94	24.75' LT	7130.02	RIPRAP LIMITS
46-14	46+66.20	22.17' LT	7129.01	RIPRAP LIMITS
46-15	46+66.35	23.27' LT	7128.47	GRADING POINT
46-16	46+72.41	22.87' LT	7127.58	RIPRAP LIMITS
46-17	46+84.33	22.50' LT	7125.96	RIPRAP LIMITS
47-1	47+10.00	24.95' LT	7120.65	RIPRAP LIMITS
47-2	47+43.40	26.76' RT	7113.99	RIPRAP LIMITS
47-3	47+50.00	30.24' LT	7111.28	RIPRAP LIMITS
47-4	47+55.00	26.97' RT	7112.04	RIPRAP LIMITS
47-5	47+55.88	24.94' RT	7112.92	RIPRAP LIMITS
48-1	48+00.00	23.00' LT	7108.74	RIPRAP LIMITS
48-2	48+00.00	33.79' LT	7107.28	GRADING POINT
48-3	48+29.32	37.08' LT	7108.20	RIPRAP LIMITS
48-4	48+29.82	31.58' LT	7104.00	RIPRAP LIMITS
48-5	48+33.05	40.66' LT	7111.15	RIPRAP LIMITS
48-6	48+34.90	15.24' LT	7106.00	RIPRAP LIMITS
48-7	48+38.24	20.43' LT	7099.62	RIPRAP LIMITS
48-8	48+43.92	24.23' LT	7099.37	RIPRAP LIMITS
48-9	48+45.00	25.39' RT	7102.96	RIPRAP LIMITS
48-10	48+45.00	19.71' RT	7103.04	RIPRAP LIMITS
48-11	48+46.89	29.58' LT	7105.36	RIPRAP LIMITS
48-12	48+57.08	22.45' LT	7103.46	DITCH CL

DRAINAGE POINT TABLE

PT #	STA	OFF	ELEV.	DESC.
48-13	48+63.28	18.70' LT	7102.10	DITCH CL
48-14	48+69.46	17.00' LT	7100.88	DITCH CL
48-15	48+70.51	17.93' RT	7101.00	RIPRAP LIMITS
48-16	48+73.57	16.77' LT	7100.15	DITCH CL
48-17	48+77.38	29.27' RT	7099.86	RIPRAP LIMITS
48-18	48+79.34	16.82' LT	7099.00	RIPRAP LIMITS
48-19	48+85.08	32.14' RT	7099.03	GRADING POINT
48-20	48+85.21	27.14' RT	7095.71	GRADING POINT
48-21	48+93.69	20.39' RT	7095.11	RIPRAP LIMITS
48-22	48+94.05	14.57' RT	7098.63	RIPRAP LIMITS
49-1	49+04.91	21.46' RT	7094.99	RIPRAP LIMITS
49-2	49+05.51	15.66' RT	7096.48	RIPRAP LIMITS
49-3	49+09.74	31.00' RT	7094.53	GRADING POINT
49-4	49+10.00	25.74' RT	7093.88	GRADING POINT
49-5	49+20.00	26.02' RT	7092.75	GRADING POINT
51-1	51+43.13	27.73' RT	7067.00	RIPRAP LIMITS
51-2	51+44.72	31.81' RT	7069.75	RIPRAP LIMITS
51-3	51+45.00	21.98' RT	7066.39	GRADING POINT
51-4	51+51.61	20.15' RT	7066.02	RIPRAP LIMITS
51-5	51+55.68	13.24' RT	7070.20	RIPRAP LIMITS
51-6	51+64.45	13.85' RT	7069.64	RIPRAP LIMITS
51-7	51+64.53	27.68' RT	7069.57	RIPRAP LIMITS
51-8	51+65.48	18.21' RT	7064.69	RIPRAP LIMITS
51-9	51+65.49	23.13' RT	7064.69	RIPRAP LIMITS
51-10	51+83.98	23.00' RT	7063.29	RIPRAP LIMITS
51-11	51+84.19	19.72' RT	7063.29	RIPRAP LIMITS
51-12	51+84.98	29.20' RT	7068.27	RIPRAP LIMITS
51-13	51+86.08	13.73' RT	7067.55	RIPRAP LIMITS
51-14	51+95.68	21.51' RT	7060.92	GRADING POINT
51-15	51+96.39	32.06' RT	7069.08	RIPRAP LIMITS
51-16	51+97.68	12.48' RT	7066.06	RIPRAP LIMITS
51-17	51+99.71	24.32' RT	7061.99	RIPRAP LIMITS
51-18	51+99.80	20.23' RT	7060.94	RIPRAP LIMITS
52-1	52+26.43	13.05' LT	7063.00	RIPRAP LIMITS
52-2	52+81.69	20.41' LT	7057.37	RIPRAP LIMITS
52-3	52+86.71	19.74' LT	7057.00	RIPRAP LIMITS
52-4	52+89.83	10.00' LT	7057.48	RIPRAP LIMITS
52-5	52+95.46	10.00' LT	7056.95	RIPRAP LIMITS
52-6	52+95.48	18.10' LT	7056.00	RIPRAP LIMITS
55-1	55+30.00	33.35' RT	7028.64	GRADING POINT
55-2	55+30.00	26.44' RT	7027.13	GRADING POINT
55-3	55+30.00	16.01' RT	7035.36	GRADING POINT
55-4	55+41.36	19.71' RT	7030.78	RIPRAP LIMITS
55-5	55+41.67	15.56' RT	7033.45	RIPRAP LIMITS
55-6	55+41.76	23.53' RT	7028.11	RIPRAP LIMITS
55-7	55+42.41	25.37' RT	7026.74	GRADING POINT
55-8	55+45.68	27.65' RT	7027.16	RIPRAP LIMITS
55-9	55+46.10	30.29' RT	7027.71	RIPRAP LIMITS
55-10	55+53.60	31.40' RT	7033.26	RIPRAP LIMITS
55-11	55+59.39	15.96' RT	7032.67	RIPRAP LIMITS
55-12	55+62.09	20.58' RT	7026.20	RIPRAP LIMITS
55-13	55+63.09	29.85' RT	7031.98	RIPRAP LIMITS
55-14	55+63.39	25.16' RT	7026.20	RIPRAP LIMITS
55-15	55+86.11	31.68' RT	7031.48	GRADING POINT
55-16	55+99.00	16.53' LT	7029.09	DITCH CL
55-17	56+00.00	20.04' LT	7029.68	DITCH CL

DRAINAGE POINT TABLE

PT #	STA	OFF	ELEV.	DESC.
56-1	56+11.85	21.39' LT	7027.84	DITCH CL
56-2	56+16.53	25.44' LT	7025.34	DITCH CL
56-3	56+20.00	17.00' LT	7029.21	GRADING POINT
56-4	56+28.74	40.83' RT	7027.23	GRADING POINT
56-5	56+34.64	33.07' LT	7023.41	DITCH CL
56-6	56+38.80	28.95' LT	7025.75	RIPRAP LIMITS
56-7	56+41.01	23.19' LT	7020.55	RIPRAP LIMITS
56-8	56+43.16	20.67' LT	7020.35	RIPRAP LIMITS
56-9	56+44.05	21.70' LT	7020.25	RIPRAP LIMITS
56-10	56+45.98	37.67' LT	7024.79	RIPRAP LIMITS
56-11	56+47.19	16.26' LT	7026.40	RIPRAP LIMITS
56-12	56+51.70	31.42' LT	7018.98	RIPRAP LIMITS
56-13	56+55.06	27.93' LT	7018.71	RIPRAP LIMITS
56-14	56+61.33	22.99' LT	7021.22	RIPRAP LIMITS
56-15	56+61.94	17.54' LT	7023.68	RIPRAP LIMITS
56-16	56+65.00	33.46' LT	7017.39	GRADING POINT
56-17	56+65.00	30.76' LT	7017.41	GRADING POINT
57-1	57+59.73	29.50' RT	7010.21	RIPRAP LIMITS
57-2	57+61.50	15.89' RT	7011.36	RIPRAP LIMITS
57-3	57+78.20	33.18' RT	7010.00	RIPRAP LIMITS
57-4	57+83.83	17.83' RT	7010.36	RIPRAP LIMITS
58-1	58+08.60	34.08' RT	7007.00	GRADING POINT
58-2	58+27.91	31.36' RT	7003.98	GRADING POINT
58-3	58+29.72	16.00' RT	7005.36	RIPRAP LIMITS
59-1	59+60.11	21.27' RT	6993.26	GRADING POINT
59-2	59+61.34	30.62' RT	6994.52	GRADING POINT
59-3	59+70.48	16.00' RT	6989.18	RIPRAP LIMITS
59-4	59+70.80	22.82' RT	6988.61	RIPRAP LIMITS
59-5	59+74.07	24.54' RT	6988.56	RIPRAP LIMITS
59-6	59+76.37	36.62' RT	6994.19	GRADING POINT
59-7	59+80.09	25.38' RT	6988.57	RIPRAP LIMITS
59-8	59+83.03	22.43' RT	6988.47	RIPRAP LIMITS
59-9	59+88.24	25.75' RT	6991.40	GRADING POINT
60-1	60+80.00	16.00' LT	6980.95	GRADING POINT
60-2	60+80.00	23.00' LT	6976.95	GRADING POINT
60-3	60+84.04	24.52' LT	6976.02	RIPRAP LIMITS
60-4	60+84.12	35.60' LT	6983.05	RIPRAP LIMITS
60-5	60+84.16	22.43' LT	6975.98	RIPRAP LIMITS
60-6	60+84.56	14.97' LT	6979.61	RIPRAP LIMITS
60-7	60+87.75	22.92' LT	6975.16	RIPRAP LIMITS
60-8	60+87.76	24.89' LT	6975.18	RIPRAP LIMITS
60-9	60+88.48	38.16' LT	6983.46	GRADING POINT
60-10	60+99.38	15.46' LT	6978.60	RIPRAP LIMITS
61-1	61+00.82	34.81' LT	6979.82	RIPRAP LIMITS
61-2	61+01.73	21.30' LT	6972.01	RIPRAP LIMITS
61-3	61+02.29	28.55' LT	6972.01	RIPRAP LIMITS
61-4	61+04.63	37.48' LT	6981.45	GRADING POINT
61-5	61+27.85	43.21' LT	6981.00	GRADING POINT
61-6	61+42.35	15.50' LT	6975.49	RIPRAP LIMITS
61-7	61+44.84	15.63' LT	6975.55	GRADING POINT
61-8	61+44.84	12.59' LT	6975.03	DITCH CL
61-9	61+84.34	13.00' RT	6972.00	GRADING POINT
61-10	61+86.91	30.95' RT	6970.05	GRADING POINT
61-11	61+91.50	41.11' RT	6968.74	RIPRAP LIMITS
61-12	61+92.20	47.06' RT	6969.33	RIPRAP LIMITS
61-13	61+99.62	40.06' RT	6967.68	RIPRAP LIMITS

DRAINAGE POINT TABLE

PT #	STA	OFF	ELEV.	DESC.
62-1	62+03.50	32.78' RT	6969.22	RIPRAP LIMITS
62-2	62+06.39	34.41' RT	6966.09	RIPRAP LIMITS
62-3	62+12.93	22.89' RT	6964.19	RIPRAP LIMITS
62-4	62+13.55	38.57' RT	6965.53	RIPRAP LIMITS
62-5	62+15.29	38.41' RT	6964.94	RIPRAP LIMITS
62-6	62+17.04	18.37' RT	6969.18	RIPRAP LIMITS
62-7	62+17.13	44.27' RT	6966.61	RIPRAP LIMITS
62-8	62+19.77	35.37' RT	6963.38	RIPRAP LIMITS
62-9	62+24.22	46.40' RT	6966.82	GRADING POINT
62-10	62+26.58	28.56' RT	6963.01	RIPRAP LIMITS
62-11	62+26.68	37.82' RT	6962.91	RIPRAP LIMITS
62-12	62+31.30	29.70' RT	6962.62	RIPRAP LIMITS
62-13	62+32.47	21.93' RT	6965.46	RIPRAP LIMITS
62-14	62+34.67	45.60' RT	6965.72	GRADING POINT
62-15	62+40.00	25.46' RT	6965.23	GRADING POINT
62-16	62+40.00	29.29' RT	6961.90	GRADING POINT
62-17	62+40.00	39.06' RT	6962.13	GRADING POINT
62-18	62+40.00	34.53' RT	6961.74	GRADING POINT
62-19	62+42.56	15.60' LT	6967.00	RIPRAP LIMITS
62-20	62+43.33	13.63' LT	6966.00	DITCH CL
62-21	62+76.42	18.27' LT	6963.85	RIPRAP LIMITS
62-22	62+93.80	18.95' LT	6962.65	RIPRAP LIMITS
63-1	63+09.52	19.50' LT	6961.00	RIPRAP LIMITS
63-2	63+09.70	15.37' LT	6960.95	RIPRAP LIMITS
63-3	63+26.58	11.00' LT	6958.93	RIPRAP LIMITS
64-1	64+44.62	11.00' LT	6947.86	RIPRAP LIMITS
65-1	65+23.36	14.40' LT	6940.60	RIPRAP LIMITS
65-2	65+42.70	20.86' LT	6940.00	RIPRAP LIMITS
68-1	68+11.87	13.90' LT	6914.86	DITCH CL
68-2	68+12.46	18.52' LT	6916.00	RIPRAP LIMITS
68-3	68+55.00	18.06' LT	6912.66	RIPRAP LIMITS
69-1	69+12.56	18.13' LT	6907.00	RIPRAP LIMITS
69-2	69+12.92	20.03' LT	6907.99	GRADING POINT
69-3	69+25.04	11.00' LT	6905.61	RIPRAP LIMITS
69-4	69+31.50	16.78' LT	6905.67	GRADING POINT
69-5	69+90.00	10.05' LT	6899.28	DITCH CL
70-1	70+90.30	11.00' LT	6892.54	RIPRAP LIMITS
71-1	71+06.41	11.00' LT	6891.63	RIPRAP LIMITS
71-2	71+15.00	15.00' LT	6891.79	RIPRAP LIMITS
71-3	71+21.83	16.50' LT	6891.49	RIPRAP LIMITS
71-4	71+24.69	19.18' LT	6891.82	RIPRAP LIMITS
71-5	71+25.07	23.97' LT	6892.62	RIPRAP LIMITS
71-6	71+28.19	30.45' LT	6892.75	RIPRAP LIMITS
71-7	71+30.58	30.69' LT	6889.37	RIPRAP LIMITS
71-8	71+31.90	22.43' LT	6887.62	GRADING POINT
71-9	71+34.17	33.63' LT	6889.41	RIPRAP LIMITS

100% SET

CALL UTILITY NOTIFICATION CENTER OF COLORADO
CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES

REVISIONS: NO.	DATE	REVISION DESCRIPTION:

BOULDER COUNTY TRANSPORTATION DEPARTMENT
ENGINEERING DIVISION
Michael Baker INTERNATIONAL

DESIGNED:	CAD:	CHECKED:	DATE:
JLW	JLW	SLS	12/23/16

GOLD RUN ROAD
DRAINAGE POINT TABLES (SHEET 2 OF 4)

PROJECT NO: 4011.SEPT12C38 | SHEET NO: 158

jessica.wroy 5:43:47 PM 12/21/2016 pw:\\DCPWAPP1.bkr.mbakercorp.com:pwprod\Documents\Projects\Lakewood_Office\Boulder_County_Emergency_Transportation\T02\08_Sheet_Files\02_Hydraulics\DGN\GPT-02.dgn

DRAINAGE POINT TABLE

PT #	STATION	OFFSET	ELEV.	DESC.
71-10	71+61.05	27.26' LT	6889.65	RIPRAP LIMITS
71-11	71+62.45	21.67' RT	6883.90	GRADING POINT
71-12	71+62.69	17.37' RT	6883.00	GRADING POINT
71-13	71+66.32	32.49' LT	6889.59	RIPRAP LIMITS
71-14	71+76.95	17.64' LT	6888.32	RIPRAP LIMITS
71-15	71+85.00	20.22' RT	6881.71	GRADING POINT
71-16	71+85.00	25.17' RT	6881.91	GRADING POINT
72-1	72+00.97	22.44' RT	6879.75	DITCH CL
72-2	72+02.09	18.18' RT	6880.51	GRADING POINT
72-3	72+03.00	12.25' RT	6886.51	GRADING POINT
72-4	72+28.51	37.66' RT	6878.68	GRADING POINT
72-5	72+31.36	29.76' RT	6875.73	DITCH CL
72-6	72+32.08	27.53' RT	6876.79	GRADING POINT
72-7	72+33.08	16.84' RT	6884.18	GRADING POINT
74-1	74+50.31	14.39' LT	6862.68	RIPRAP LIMITS
74-2	74+72.50	15.10' LT	6860.32	DITCH CL
74-3	74+76.65	20.00' LT	6860.71	RIPRAP LIMITS
75-1	75+39.72	20.00' LT	6853.00	RIPRAP LIMITS
75-2	75+62.08	21.84' LT	6852.06	RIPRAP LIMITS
76-1	76+08.23	20.00' LT	6847.21	RIPRAP LIMITS
76-2	76+55.00	22.07' LT	6842.43	GRADING POINT
76-3	76+65.00	22.41' LT	6841.40	GRADING POINT
76-4	76+70.16	20.00' LT	6840.74	RIPRAP LIMITS
76-5	76+88.40	42.12' RT	6827.06	GRADING POINT
76-5	76+88.40	42.12' RT	6827.06	GRADING POINT
76-7	76+88.40	28.25' RT	6838.34	BOTTOM OF WALL
76-8	76+88.41	28.24' RT	6838.85	TOP OF WALL
76-9	76+99.34	28.24' RT	6836.53	TOP OF WALL
76-10	76+99.34	30.25' RT	6834.30	WALL BENCH
76-11	76+99.34	28.25' RT	6834.40	BOTTOM OF WALL
76-12	76+99.70	40.66' RT	6825.12	GRADING POINT
77-1	77+00.05	50.59' RT	6825.46	GRADING POINT
77-2	77+00.39	60.53' RT	6833.55	GRADING POINT
77-3	77+00.76	71.13' RT	6833.23	GRADING POINT
77-4	77+00.87	74.27' RT	6835.05	GRADING POINT
77-5	77+25.59	76.59' RT	6834.37	RIPRAP LIMITS
77-6	77+27.36	28.24' RT	6833.72	TOP OF WALL
77-7	77+27.36	30.25' RT	6829.92	WALL BENCH
77-8	77+27.36	28.25' RT	6830.02	BOTTOM OF WALL
77-9	77+27.45	43.73' RT	6823.18	GRADING POINT
77-10	77+27.51	51.73' RT	6823.18	GRADING POINT
77-11	77+28.31	79.84' RT	6836.54	RIPRAP LIMITS
77-12	77+35.90	28.24' RT	6832.86	TOP OF WALL
77-13	77+35.90	28.25' RT	6829.56	BOTTOM OF WALL
77-14	77+35.90	30.25' RT	6829.46	WALL BENCH
77-15	77+38.02	34.04' RT	6827.47	RIPRAP LIMITS
77-16	77+40.14	30.50' RT	6829.12	RIPRAP LIMITS
77-17	77+40.91	28.25' RT	6829.66	BOTTOM OF WALL
77-18	77+40.91	29.46' RT	6829.60	WALL BENCH
77-19	77+41.80	28.24' RT	6832.75	TOP OF WALL
77-20	77+43.69	43.83' RT	6822.44	RIPRAP LIMITS
77-21	77+44.32	50.05' RT	6822.42	RIPRAP LIMITS
77-22	77+45.27	61.16' RT	6826.68	RIPRAP LIMITS
77-23	77+47.70	28.24' RT	6832.64	TOP OF WALL
77-24	77+47.71	28.25' RT	6832.11	BOTTOM OF WALL
77-25	77+55.60	68.69' RT	6835.05	GRADING POINT

DRAINAGE POINT TABLE

PT #	STA	OFF	ELEV.	DESC.
77-26	77+60.44	29.17' RT	6831.12	GRADING POINT
77-27	77+61.76	39.66' RT	6830.43	RIPRAP LIMITS
77-28	77+62.42	44.42' RT	6821.67	RIPRAP LIMITS
77-29	77+62.88	47.77' RT	6821.67	RIPRAP LIMITS
77-30	77+63.83	53.44' RT	6830.54	RIPRAP LIMITS
77-31	77+66.64	70.71' RT	6835.05	GRADING POINT
77-32	77+81.51	21.64' RT	6829.01	GRADING POINT
77-33	77+96.35	16.90' LT	6828.00	RIPRAP LIMITS
78-1	78+14.17	22.08' LT	6827.70	RIPRAP LIMITS
78-2	78+22.80	22.75' LT	6826.80	RIPRAP LIMITS
78-3	78+56.95	15.51' LT	6823.79	RIPRAP LIMITS
78-4	78+70.40	24.07' LT	6822.00	RIPRAP LIMITS
78-5	78+77.28	28.38' LT	6821.10	RIPRAP LIMITS
78-6	78+98.53	20.00' LT	6820.28	RIPRAP LIMITS
79-1	79+12.26	21.62' LT	6820.00	GRADING POINT
79-2	79+23.99	20.00' LT	6817.69	RIPRAP LIMITS
79-3	79+24.06	22.68' LT	6817.92	GRADING POINT
79-4	79+39.59	15.36' LT	6815.00	RIPRAP LIMITS
82-1	82+44.45	12.10' LT	6788.14	RIPRAP LIMITS
82-2	82+46.05	17.19' LT	6787.00	RIPRAP LIMITS
82-3	82+72.85	17.54' LT	6785.00	RIPRAP LIMITS
82-4	82+73.23	19.70' LT	6785.57	RIPRAP LIMITS
83-1	83+18.89	18.23' LT	6782.08	RIPRAP LIMITS
83-2	83+32.05	12.00' LT	6780.50	GUTTER
83-3	83+40.25	118.05' LT	6805.41	GRADING POINT
83-4	83+45.45	122.62' LT	6803.22	RIPRAP LIMITS
83-5	83+47.46	133.51' LT	6806.07	RIPRAP LIMITS
83-6	83+50.23	136.42' LT	6806.32	RIPRAP LIMITS
83-7	83+50.37	117.70' LT	6801.10	RIPRAP LIMITS
83-8	83+55.25	132.85' LT	6805.48	GRADING POINT
83-9	83+58.19	124.40' LT	6801.10	RIPRAP LIMITS
83-10	83+60.20	14.00' LT	6778.12	RIPRAP LIMITS
83-11	83+61.33	127.52' LT	6803.81	GRADING POINT
83-12	83+62.05	105.06' LT	6798.02	RIPRAP LIMITS
83-13	83+62.28	14.00' LT	6777.93	DITCH CL
83-14	83+63.16	48.38' LT	6782.37	GRADING POINT
83-15	83+64.35	14.00' LT	6777.74	RIPRAP LIMITS
83-16	83+64.94	31.46' LT	6778.25	RIPRAP LIMITS
83-17	83+66.49	36.25' LT	6778.39	RIPRAP LIMITS
83-18	83+68.29	35.35' LT	6777.39	DITCH CL
83-19	83+68.89	110.91' LT	6799.87	RIPRAP LIMITS
83-20	83+70.28	74.34' LT	6787.67	GRADING POINT
83-21	83+70.35	50.52' LT	6779.67	GRADING POINT
83-22	83+70.55	34.77' LT	6778.00	RIPRAP LIMITS
83-23	83+70.82	90.99' LT	6793.00	GRADING POINT
83-24	83+70.86	94.78' LT	6794.36	RIPRAP LIMITS
83-25	83+72.51	52.04' LT	6779.12	RIPRAP LIMITS
83-26	83+72.55	99.46' LT	6795.17	DITCH CL
83-27	83+74.30	51.13' LT	6777.91	DITCH CL
83-28	83+75.47	108.55' LT	6799.92	GRADING POINT
83-29	83+76.51	102.01' LT	6797.28	RIPRAP LIMITS
83-30	83+76.64	51.95' LT	6778.94	GRADING POINT
83-31	83+77.77	77.25' LT	6787.79	GRADING POINT
83-32	83+78.46	56.08' LT	6780.37	RIPRAP LIMITS
83-33	83+81.92	12.00' LT	6775.98	GUTTER
83-34	83+82.99	67.47' LT	6781.84	GRADING POINT

DRAINAGE POINT TABLE

PT #	STA	OFF	ELEV.	DESC.
83-35	83+98.63	11.00' RT	6774.80	RIPRAP LIMITS
84-1	84+33.61	14.97' LT	6771.53	RIPRAP LIMITS
84-2	84+40.00	11.00' LT	6770.73	RIPRAP LIMITS
86-1	86+06.81	11.98' RT	6756.00	RIPRAP LIMITS
86-2	86+23.52	15.31' RT	6755.00	GRADING POINT
86-3	86+49.68	22.69' RT	6754.54	GRADING POINT
86-4	86+56.79	19.20' RT	6753.33	RIPRAP LIMITS
86-5	86+69.47	14.32' RT	6752.20	GRADING POINT
86-6	86+70.97	17.31' RT	6752.00	GRADING POINT
87-1	87+25.72	11.00' LT	6748.38	RIPRAP LIMITS
87-2	87+31.00	25.22' RT	6747.35	GUTTER
87-3	87+59.69	32.06' RT	6744.91	RIPRAP LIMITS
87-4	87+64.22	28.23' RT	6745.04	RIPRAP LIMITS
87-5	87+70.28	40.39' RT	6743.84	GUTTER
87-6	87+75.16	39.75' RT	6742.09	RIPRAP LIMITS
87-7	87+78.06	46.70' RT	6743.20	RIPRAP LIMITS
87-8	87+82.06	31.78' RT	6735.01	RIPRAP LIMITS
87-9	87+88.97	35.78' RT	6734.38	RIPRAP LIMITS
88-1	88+61.91	11.00' LT	6740.16	RIPRAP LIMITS
88-2	88+72.81	15.55' LT	6741.05	GRADING POINT
88-3	88+82.86	20.65' LT	6741.05	GRADING POINT
88-4	88+87.95	23.96' LT	6741.05	GRADING POINT
89-1	89+70.00	24.49' RT	6727.14	GRADING POINT
89-2	89+70.00	20.29' RT	6726.99	GRADING POINT
89-3	89+70.00	46.50' RT	6721.93	GRADING POINT
89-4	89+70.00	35.72' RT	6720.80	GRADING POINT
89-5	89+81.34	41.32' RT	6721.03	RIPRAP LIMITS
89-6	89+83.05	46.05' RT	6723.47	RIPRAP LIMITS
89-7	89+85.61	30.68' RT	6720.98	RIPRAP LIMITS
89-8	89+86.29	23.06' RT	6725.02	RIPRAP LIMITS
89-9	89+88.19	18.98' RT	6727.24	RIPRAP LIMITS
89-10	89+91.32	44.83' RT	6723.49	RIPRAP LIMITS
89-11	89+97.60	16.00' RT	6728.58	GRADING POINT
89-12	89+99.64	24.33' RT	6727.19	RIPRAP LIMITS
89-13	89+99.93	39.54' RT	6726.17	RIPRAP LIMITS
90-1	90+00.16	34.48' RT	6720.05	RIPRAP LIMITS
90-2	90+00.69	29.47' RT	6720.02	RIPRAP LIMITS
90-3	90+00.69	34.47' RT	6720.02	RIPRAP LIMITS
90-4	90+27.44	12.76' LT	6726.08	RIPRAP LIMITS
90-5	90+40.61	24.62' RT	6723.90	RIPRAP LIMITS
90-6	90+40.75	29.36' RT	6717.08	RIPRAP LIMITS
90-7	90+40.92	34.36' RT	6717.08	RIPRAP LIMITS
90-8	90+42.69	38.95' RT	6723.79	RIPRAP LIMITS
90-9	90+46.07	23.00' LT	6726.04	RIPRAP LIMITS
90-10	90+49.28	23.81' LT	6725.72	RIPRAP LIMITS
90-11	90+53.77	16.66' RT	6721.70	RIPRAP LIMITS

100% SET

CALL UTILITY NOTIFICATION CENTER OF COLORADO
811
CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES

REVISIONS:	NO.	DATE	REVISION DESCRIPTION:

Boulder County

Michael Baker INTERNATIONAL

BOULDER COUNTY TRANSPORTATION DEPARTMENT
ENGINEERING DIVISION

DESIGNED:	CAD:	CHECKED:	DATE:
JLW	JLW	SLS	12/23/16

GOLD RUN ROAD
DRAINAGE POINT TABLES (SHEET 3 OF 4)

PROJECT NO: 4011.SEPT12C38 | SHEET NO: 159

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DRAINAGE POINT TABLE

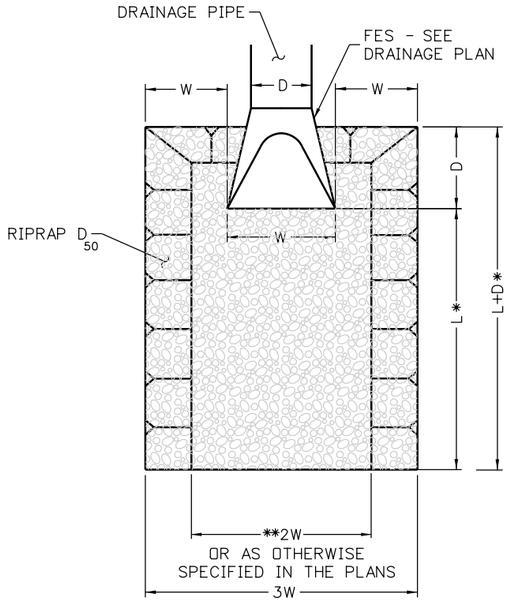
PT #	STA	OFF	ELEV.	DESC.
90-12	90+56.32	19.69' LT	6724.19	RIPRAP LIMITS
90-13	90+59.29	19.51' RT	6719.63	RIPRAP LIMITS
90-14	90+60.95	24.93' RT	6716.35	RIPRAP LIMITS
90-15	90+67.33	32.62' RT	6714.75	RIPRAP LIMITS
90-16	90+69.64	39.68' RT	6719.90	RIPRAP LIMITS
90-17	90+70.00	24.47' RT	6715.32	GRADING POINT
90-18	90+70.00	29.20' RT	6713.95	GRADING POINT
90-19	90+80.71	18.96' RT	6717.63	GRADING POINT
90-20	91+00.00	18.00' RT	6719.12	GRADING POINT
91-1	91+00.00	26.02' RT	6713.21	GRADING POINT
91-2	91+00.00	39.10' RT	6713.87	GRADING POINT
91-3	91+00.00	30.39' RT	6712.78	GRADING POINT
91-4	91+06.40	33.61' RT	6712.77	RIPRAP LIMITS
91-5	91+06.82	38.04' RT	6713.28	RIPRAP LIMITS
91-6	91+07.25	25.82' RT	6712.97	RIPRAP LIMITS
91-7	91+08.44	42.32' RT	6715.87	RIPRAP LIMITS
91-8	91+08.87	20.43' RT	6714.94	RIPRAP LIMITS
91-9	91+11.36	16.58' RT	6715.99	RIPRAP LIMITS
91-10	91+19.14	42.82' RT	6717.01	GRADING POINT
91-11	91+22.39	37.98' RT	6716.94	RIPRAP LIMITS
91-12	91+23.11	22.90' RT	6717.03	RIPRAP LIMITS
91-13	91+23.50	33.09' RT	6711.31	RIPRAP LIMITS
91-14	91+23.86	28.10' RT	6711.31	RIPRAP LIMITS
91-15	91+41.92	18.97' LT	6716.23	RIPRAP LIMITS
91-16	91+63.11	14.00' RT	6713.83	GRADING POINT
91-17	91+65.68	16.05' LT	6713.02	RIPRAP LIMITS
91-18	91+68.61	30.02' RT	6709.37	GRADING POINT
91-19	91+69.22	35.05' RT	6710.53	GRADING POINT
91-20	91+75.26	21.61' LT	6715.56	RIPRAP LIMITS
91-21	91+83.22	22.46' LT	6714.54	RIPRAP LIMITS
91-22	91+85.00	28.02' RT	6708.20	GRADING POINT
91-23	91+85.00	23.70' RT	6708.19	GRADING POINT
91-24	91+85.00	14.00' RT	6712.30	GRADING POINT
91-25	91+87.06	21.40' RT	6708.99	RIPRAP LIMITS
91-26	91+87.12	32.11' RT	6709.18	RIPRAP LIMITS
91-27	91+87.74	38.30' RT	6713.62	RIPRAP LIMITS
91-28	91+88.53	14.43' RT	6711.88	RIPRAP LIMITS
91-29	91+90.66	14.14' RT	6711.88	RIPRAP LIMITS
91-30	91+92.43	41.64' RT	6714.93	RIPRAP LIMITS
92-1	92+00.53	14.00' RT	6711.33	GRADING POINT
92-2	92+05.18	16.85' RT	6711.99	RIPRAP LIMITS
92-3	92+05.32	26.59' RT	6706.73	RIPRAP LIMITS
92-4	92+06.47	21.59' RT	6706.64	RIPRAP LIMITS
92-5	92+06.51	26.58' RT	6706.64	RIPRAP LIMITS
92-6	92+06.56	31.54' RT	6712.70	RIPRAP LIMITS
92-7	92+28.62	21.04' RT	6704.83	RIPRAP LIMITS
92-8	92+28.76	26.03' RT	6704.83	RIPRAP LIMITS
92-9	92+29.59	16.16' RT	6710.24	RIPRAP LIMITS
92-10	92+30.15	30.73' RT	6711.19	RIPRAP LIMITS
92-11	92+33.28	14.00' RT	6709.90	GRADING POINT
92-12	92+43.55	12.02' RT	6709.22	RIPRAP LIMITS
92-13	92+43.96	32.78' RT	6710.17	RIPRAP LIMITS
92-14	92+45.12	12.03' RT	6709.13	RIPRAP LIMITS
92-15	92+45.46	20.22' RT	6704.58	RIPRAP LIMITS
92-16	92+45.56	25.76' RT	6705.03	RIPRAP LIMITS
92-17	92+46.06	32.26' RT	6709.93	RIPRAP LIMITS

DRAINAGE POINT TABLE

PT #	STA	OFF	ELEV.	DESC.
92-18	92+55.00	28.42' RT	6709.13	GRADING POINT
92-19	92+55.00	24.28' RT	6704.65	GRADING POINT
92-20	92+55.00	19.62' RT	6704.58	GRADING POINT
92-21	92+55.00	14.10' RT	6708.70	GRADING POINT
92-22	92+90.07	8.99' LT	6705.89	RIPRAP LIMITS
93-1	93+03.41	29.83' RT	6703.90	RIPRAP LIMITS
93-2	93+03.84	23.51' RT	6699.08	GRADING POINT
93-3	93+03.84	13.68' RT	6704.75	GRADING POINT
93-4	93+03.84	20.84' RT	6699.91	GRADING POINT
93-5	93+03.87	25.21' RT	6700.15	RIPRAP LIMITS
93-6	93+04.03	33.99' RT	6705.25	RIPRAP LIMITS
93-7	93+13.56	20.66' RT	6699.06	RIPRAP LIMITS
93-8	93+17.45	13.21' RT	6703.31	RIPRAP LIMITS
93-9	93+19.75	31.63' RT	6702.89	RIPRAP LIMITS
93-10	93+21.17	27.35' RT	6696.92	RIPRAP LIMITS
93-11	93+21.71	27.85' RT	6696.82	RIPRAP LIMITS
93-12	93+22.00	41.56' RT	6703.37	GRADING POINT
93-13	93+23.75	24.18' RT	6696.82	RIPRAP LIMITS
93-14	93+25.07	19.50' RT	6702.42	RIPRAP LIMITS
93-15	93+32.50	15.20' LT	6701.00	RIPRAP LIMITS
93-16	93+46.01	54.49' RT	6695.81	RIPRAP LIMITS
93-17	93+48.63	52.72' RT	6700.78	RIPRAP LIMITS
93-18	93+48.79	18.04' LT	6699.66	GUTTER
93-19	93+52.40	40.26' RT	6700.34	GRADING POINT
93-20	93+52.40	77.83' RT	6696.62	GRADING POINT
93-21	93+54.01	74.32' RT	6694.50	GRADING POINT
93-22	93+54.14	39.48' RT	6697.84	GRADING POINT
93-23	93+54.92	70.82' RT	6695.22	RIPRAP LIMITS
93-24	93+56.75	68.11' RT	6695.78	RIPRAP LIMITS
93-25	93+58.58	65.62' RT	6695.85	GRADING POINT
93-26	93+59.77	82.18' RT	6693.74	GRADING POINT
93-27	93+61.93	75.46' RT	6695.78	GRADING POINT
93-28	93+66.23	27.10' LT	6699.00	GRADING POINT
93-29	93+70.25	90.28' RT	6692.61	GRADING POINT
93-30	93+72.90	81.32' RT	6695.81	GRADING POINT
93-31	93+77.59	95.06' RT	6692.65	GRADING POINT
93-32	93+78.36	28.32' LT	6698.03	GRADING POINT
93-33	93+78.77	88.44' RT	6692.61	GRADING POINT
93-34	93+79.60	83.84' RT	6695.87	GRADING POINT
93-35	93+84.11	13.68' LT	6696.44	GUTTER
94-1	94+03.96	15.21' LT	6697.00	GRADING POINT
94-2	94+04.13	12.00' LT	6695.00	RIPRAP LIMITS
94-3	94+95.00	32.14' RT	6683.17	GRADING POINT
94-4	94+95.00	19.91' RT	6682.63	GRADING POINT
94-5	94+95.00	12.79' RT	6687.15	GRADING POINT
94-6	94+95.00	26.15' RT	6682.05	GRADING POINT
94-7	94+95.00	42.81' RT	6686.41	GRADING POINT
95-1	95+05.00	18.97' RT	6681.60	GRADING POINT
95-2	95+05.00	13.00' RT	6686.53	GRADING POINT
95-3	95+13.11	29.82' RT	6680.93	GRADING POINT
95-4	95+13.70	37.88' RT	6685.10	GRADING POINT
95-5	95+48.36	19.29' RT	6677.57	RIPRAP LIMITS
95-6	95+48.61	14.50' RT	6681.53	RIPRAP LIMITS
95-7	95+49.66	27.39' RT	6677.54	RIPRAP LIMITS
95-8	95+49.95	18.60' RT	6677.50	GRADING POINT
95-9	95+49.96	31.27' RT	6680.41	RIPRAP LIMITS

DRAINAGE POINT TABLE

PT #	STA	OFF	ELEV.	DESC.
95-10	95+50.00	13.00' RT	6682.85	GRADING POINT
95-11	95+50.19	23.15' RT	6677.00	GRADING POINT
95-12	95+50.43	27.64' RT	6677.50	GRADING POINT
95-13	95+51.18	35.34' RT	6682.21	RIPRAP LIMITS
95-14	95+66.30	13.00' RT	6681.50	GRADING POINT
95-15	95+67.01	16.17' RT	6681.22	RIPRAP LIMITS
95-16	95+67.51	30.18' RT	6681.56	RIPRAP LIMITS
95-17	95+68.31	20.70' RT	6674.90	RIPRAP LIMITS
95-18	95+68.35	25.68' RT	6674.90	RIPRAP LIMITS
95-19	95+90.67	15.08' RT	6677.88	GRADING POINT
95-20	95+93.59	14.79' RT	6677.19	GRADING POINT
95-21	95+98.81	36.36' RT	6680.05	RIPRAP LIMITS
95-22	95+98.89	31.62' RT	6673.30	RIPRAP LIMITS
96-1	96+00.02	27.15' RT	6673.30	RIPRAP LIMITS
96-2	96+00.65	27.44' RT	6673.25	RIPRAP LIMITS
96-3	96+01.28	22.60' RT	6678.65	RIPRAP LIMITS
96-4	96+02.85	17.33' RT	6675.85	GRADING POINT
96-5	96+21.05	51.41' RT	6679.51	RIPRAP LIMITS
96-6	96+21.79	16.06' RT	6675.65	RIPRAP LIMITS
96-7	96+22.51	22.96' RT	6673.03	RIPRAP LIMITS
96-8	96+22.53	47.80' RT	6676.45	RIPRAP LIMITS
96-9	96+22.73	33.31' RT	6671.25	GRADING POINT
96-10	96+23.81	40.56' RT	6672.02	RIPRAP LIMITS
96-11	96+26.45	27.68' RT	6670.86	RIPRAP LIMITS
96-12	96+35.14	27.80' RT	6668.75	GRADING POINT
96-13	96+36.35	38.84' RT	6668.01	GRADING POINT
96-14	96+45.00	16.95' RT	6674.27	GRADING POINT
96-15	96+45.00	27.96' RT	6666.21	GRADING POINT
96-16	96+45.00	35.70' RT	6666.57	GRADING POINT
96-17	96+45.00	33.76' RT	6665.78	GRADING POINT
96-18	96+45.00	34.54' RT	6665.82	GRADING POINT
98-1	98+62.37	18.11' LT	6653.40	RIPRAP LIMITS
98-2	98+69.33	18.42' LT	6651.37	RIPRAP LIMITS



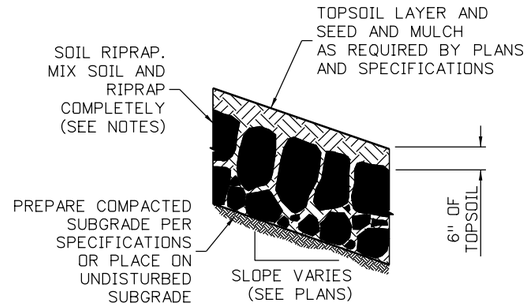
PLAN

* 3D < L < 10D (SEE TABLE)
** EQUALS CHANNEL WIDTH FOR PIPE INLETS

INLET/OUTLET PROTECTION

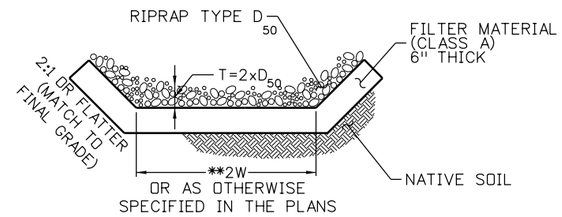
NTS

FILTER MATERIAL (CLASS A) SHALL BE 6" THICK

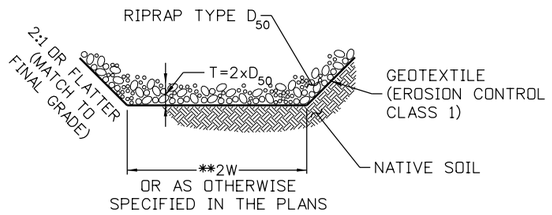


TYPICAL SECTION
SOIL RIPRAP WITH MULCH

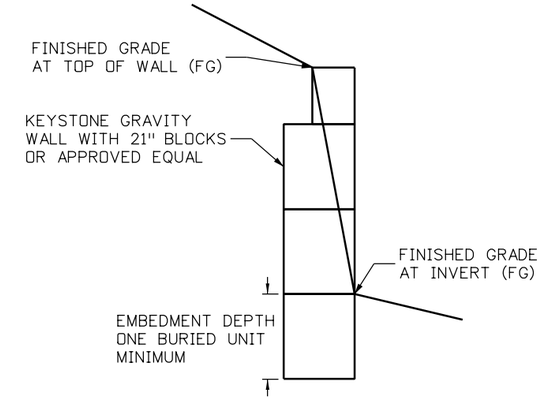
NTS



LINING A

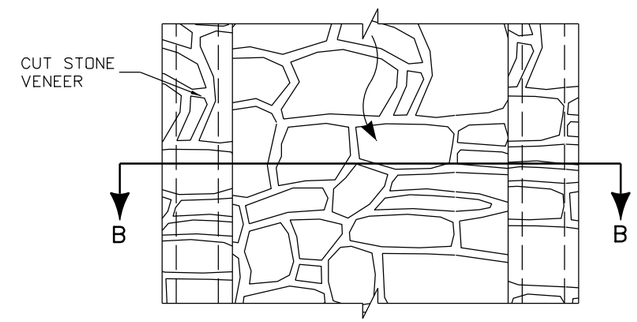


LINING B



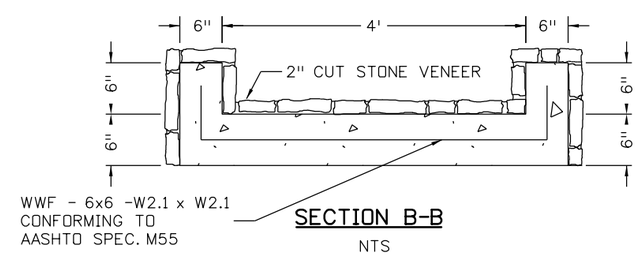
STONE LANDSCAPE WALL

NTS



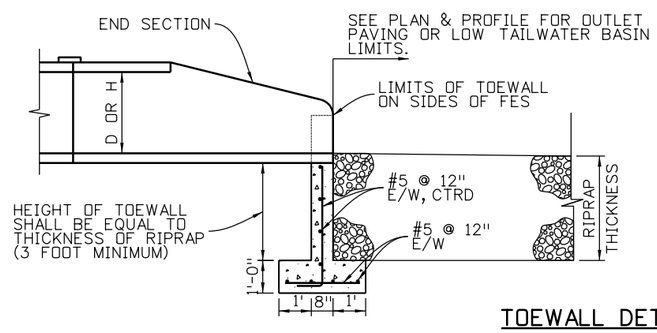
GUTTER (SPECIAL)
PLAN VIEW

NTS



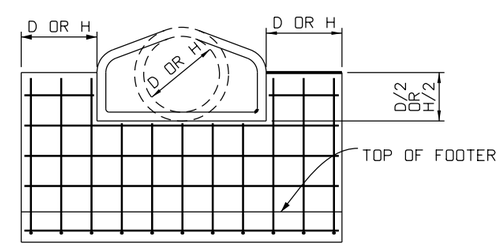
SECTION B-B

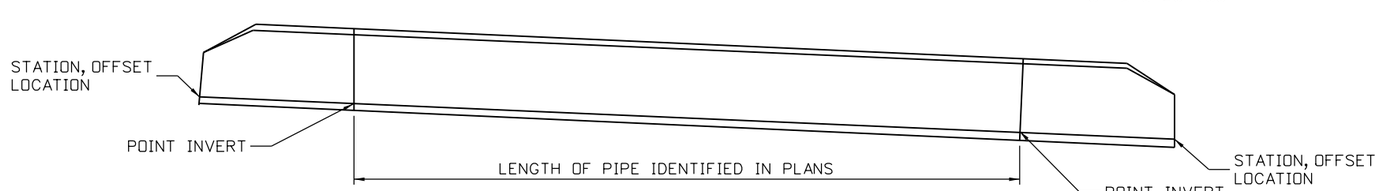
NTS



TOEWALL DETAIL

NTS





CULVERT TYPICAL

NOTES:

1. FLOW DIRECTION MAY VARY. SEE DRAINAGE PLANS.

NOTES:

1. SOIL RIPRAP AND RIPRAP DETAILS ARE APPLICABLE TO SLOPED AREAS. REFER TO THE DRAINAGE PLANS AND RIPRAP TABLE FOR ACTUAL LOCATIONS AND LIMITS.
2. REFER TO RIPRAP INLET/OUTLET TABLE FOR RIPRAP SIZING DIMENSIONS, AND BEDDING REQUIREMENTS.
2. MIX UNIFORMLY 65% RIPRAP BY VOLUME WITH 35% OF APPROVED SOIL OR GRAVEL BY VOLUME PRIOR TO PLACEMENT.
3. PLACE SOIL RIPRAP OR RIPRAP MIX TO RESULT IN SECURELY INTERLOCKED ROCK AT THE DESIGN THICKNESS AND GRADE. COMPACT AND LEVEL TO ELIMINATE ALL VOIDS AND ROCKS PROJECTING ABOVE DESIGN RIPRAP TOP GRADE.
4. CRIMP OR TACKIFY MULCH ON SOIL RIPRAP OR AS CALLED FOR IN THE PLANS AND SPECIFICATIONS.
5. SEE STORMWATER MANAGEMENT PLAN FOR SEEDING MIXTURE AND DETAILS.
6. FOR AREAS WITH SOIL RIPRAP, 6 INCHES OF TOPSOIL IS REQUIRED ABOVE SOIL RIPRAP. ELEVATIONS ARE FOR FINAL GRADE. SEE SOIL RIPRAP WITH MULCH DETAIL FOR MORE INFORMATION.

100% SET

CALL UTILITY NOTIFICATION CENTER OF COLORADO
811
CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES

REVISIONS:	NO.	DATE	REVISION DESCRIPTION:

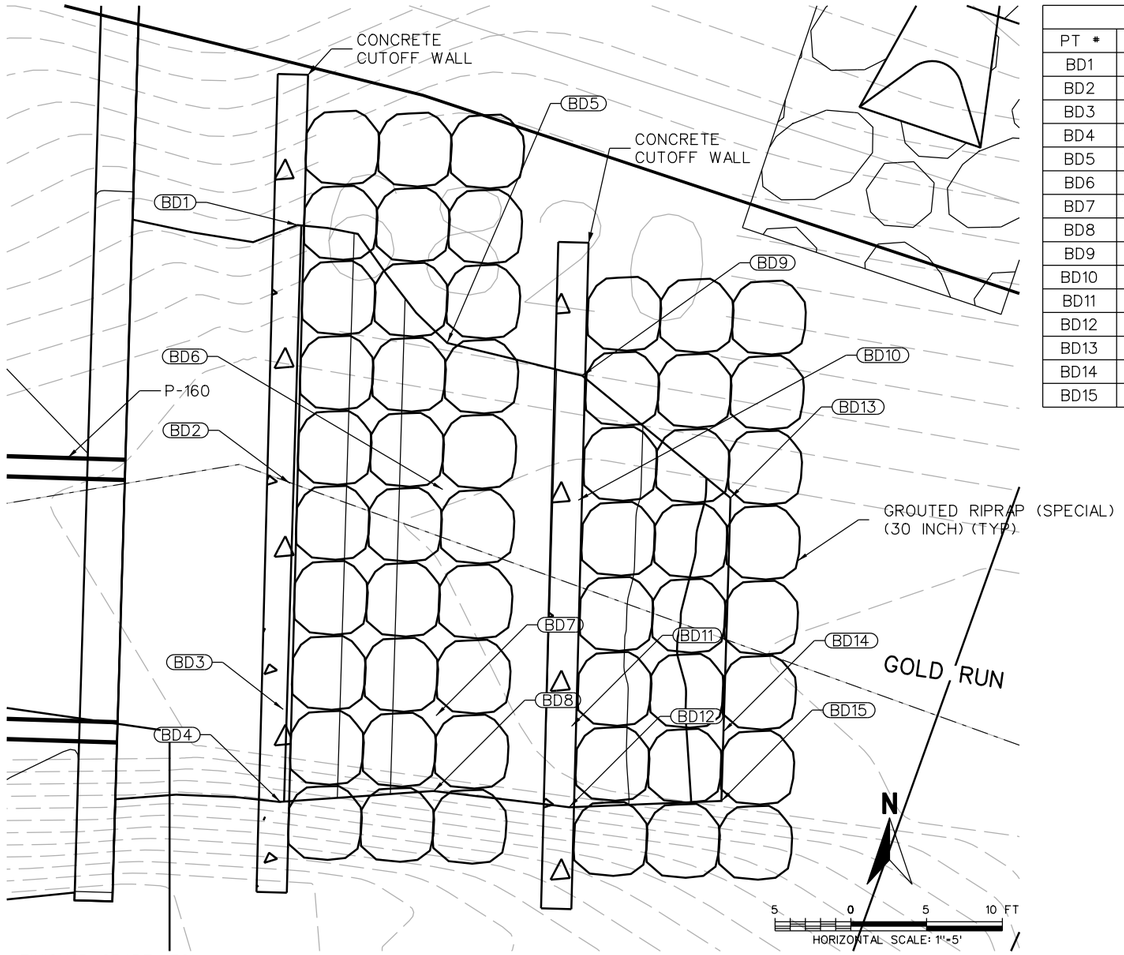
BOULDER COUNTY TRANSPORTATION DEPARTMENT
ENGINEERING DIVISION
Boulder County
Michael Baker INTERNATIONAL

DESIGNED:	CAD:	CHECKED:	DATE:
JLW	EMR	SLS	12/23/16

GOLD RUN ROAD
DRAINAGE DETAILS
(SHEET 1 OF 5)

PROJECT NO: 4011.SEPT12C38 | SHEET NO: 161

jessica.wroy 5:44:35 PM 12/21/2016 pw:\\DCPWAPP1.bkr.mbakercorp.com:pwprod\Documents\Projects\Lakewood_Office\Boulder_County_Emergency_Transportation\T02\08_Sheet_Files\02_Hydraulics\DGN\DD-01.dgn

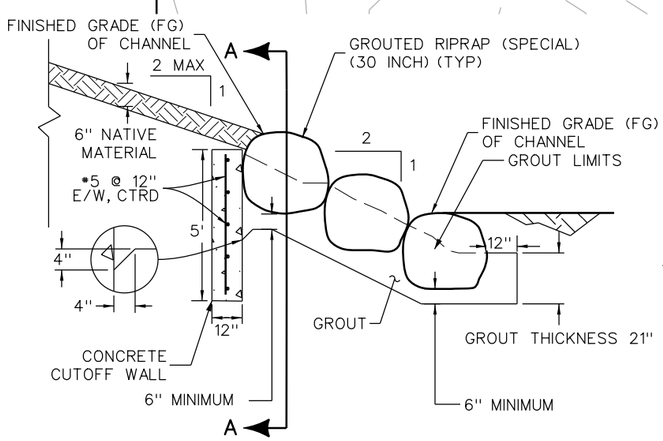


BOULDER DROP POINT TABLE				
PT #	STATION	OFFSET	ELEV.	DESC.
BD1	77+96.92	28.26' RT	6820.07	FG AT TOP
BD2	77+99.34	36.52' RT	6819.57	FG AT DEPRESSION
BD3	78+01.62	43.74' RT	6819.57	FG AT DEPRESSION
BD4	78+02.60	46.69' RT	6820.07	FG AT TOP
BD5	78+03.52	30.59' RT	6817.18	FG AT BOTTOM
BD6	78+05.03	35.24' RT	6816.68	FG AT DEPRESSION
BD7	78+07.49	42.41' RT	6816.68	FG AT DEPRESSION
BD8	78+08.34	44.80' RT	6817.18	FG AT BOTTOM
BD9	78+08.71	30.25' RT	6816.96	FG AT TOP
BD10	78+10.07	34.18' RT	6816.46	FG AT DEPRESSION
BD11	78+12.69	41.31' RT	6816.46	FG AT DEPRESSION
BD12	78+13.66	43.85' RT	6816.96	FG AT TOP
BD13	78+15.50	32.44' RT	6814.62	FG AT BOTTOM
BD14	78+18.36	39.75' RT	6814.40	FG AT BOTTOM
BD15	78+19.25	41.92' RT	6814.51	FG AT BOTTOM

NOTES

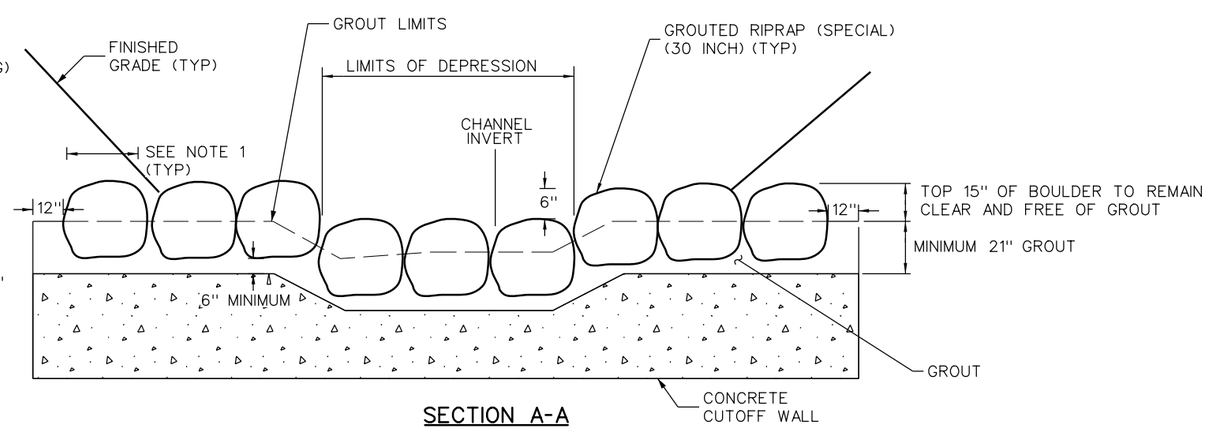
MISCELLANEOUS NOTES

1. BOULDER DROP SHALL EXTEND A MINIMUM OF 30" INTO CHANNEL BANK RESULTING IN A MINIMUM OF 1 BOULDER BURIED ON EACH SIDE OF THE CHANNEL.
2. ELEVATIONS OF BOULDER DROP PER A ROW SHALL NOT EXCEED 15" VERTICALLY.
3. SEE DRAINAGE PLAN AND PROFILE SHEETS FOR LOCATION AND FINISHED GRADE ELEVATIONS.
4. PLACE BOULDER AS TIGHTLY AS POSSIBLE WITH THE REQUIRED BOULDER HEIGHT AND VOIDS FOR GROUTING MINIMIZATION.



GROUTED BOULDER DROP

NTS



SECTION A-A

NTS

CALL UTILITY NOTIFICATION CENTER OF COLORADO
811
CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES

REVISIONS:	NO.	DATE	REVISION DESCRIPTION:

Boulder County

Michael Baker INTERNATIONAL

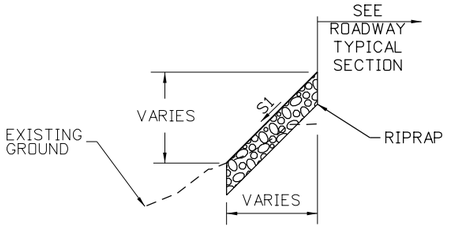
BOULDER COUNTY TRANSPORTATION DEPARTMENT
ENGINEERING DIVISION

DESIGNED:	CAD:	CHECKED:	DATE:
JLW	JLW	SLS	12/23/16

GOLD RUN ROAD
DRAINAGE DETAILS (SHEET 2 OF 5)

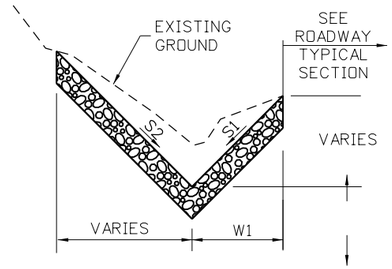
PROJECT NO: 4011.SEPT12C38 | SHEET NO: 162

jessica.wroy 6:36:43 PM pw:\\DCPWAPP1.bkr.mbakercorp.com:pwprod\Documents\Projects\Lakewood_Office\Boulder_County_Emergency_Transportation\T02\08_Sheet_Files\02_Hydraulics\DGN\DD-02.dgn

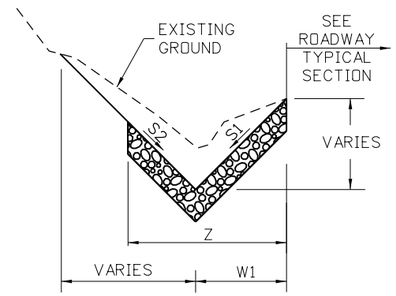


DETAIL A

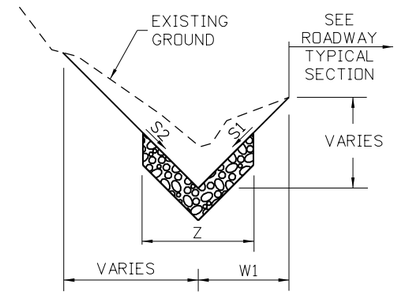
RIPRAP EXTENDS FROM EDGE OF PAVEMENT TO TOE OF SLOPE UNLESS NOTED ON DRAINAGE END CONDITIONS TABLE



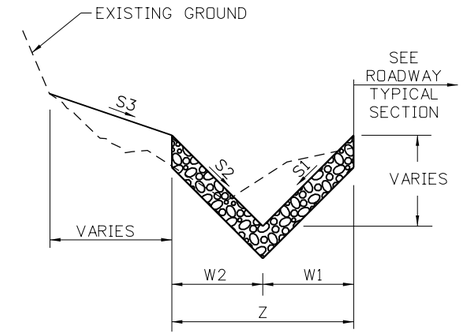
DETAIL B1



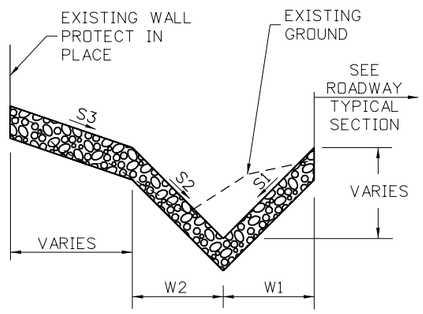
DETAIL B2



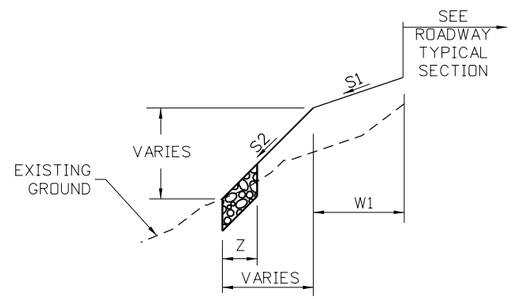
DETAIL B3



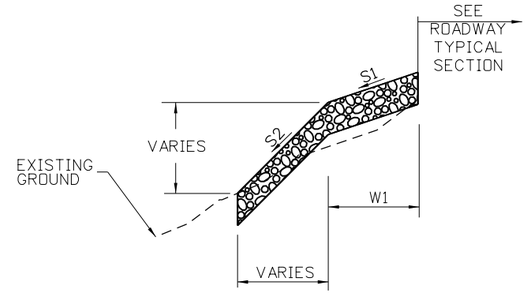
DETAIL C1



DETAIL C2



DETAIL D1



DETAIL D2

NOTES:

1. SEE DRAINAGE END CONDITIONS TABLE FOR STATION LIMITS.
2. SEE DITCH ANG GUTTER TABLE FOR RIPRAP SIZE AND GUTTER TYPE.
3. SEE ROADWAY SHEETS FOR ROADWAY TYPICAL SECTION
4. SEE STRUCTURAL SHEETS FOR RETAINING WALL DETAILS.
5. ALL DETAILS SHOWN NTS

DITCH AND GUTTER TABLE

ID	STATION	TO	STATION	D50 SIZE	RIPRAP THICKNESS	GUTTER TYPE	WIDTH
				INCHES	FEET		FEET
Gutter 133b	20+95.27,12.51' LT	-	21+14.26, 14.01' LT	-		GUTTER TYPE 2	4'
CH-133	21+14.26, 14.01' LT	-	21+48.63, 15.92' LT	6	1		
Gutter 133a	21+48.63, 15.92' LT	-	21+61.27, 15.30' LT	-		GUTTER TYPE 2	4'
CH-132	21+61.27, 15.30' LT	-	21+71.33 14.51' LT	9			
CH-100al	21+94.51, 10.50' LT	-	23+35.22, 10.19' LT	9	1.5		
CH-100	23+35.22, 10.19' LT	-	26+86.10, 36.10' LT	9	1.5		
CH-102b	27+22.25, 16.00' LT	-	28+44.95, 13.00' LT	9	1.5		
Gutter 102	28+44.95, 13.00' LT	-	28+62.01, 13.00' LT	-		GUTTER TYPE 2	4'
CH-102a	28+62.01, 13.00' LT	-	29+19.86, 21.13' LT	9	1.5		
CH-103	29+44.47, 16.00' LT	-	30+50.62, 24.60' LT	12	2		
GUTTER 45	45+53.31, 41.57' LT	-	45+53.83, 25.35' LT	-		GUTTER (SPECIAL)	
CH-108	48+79.34, 16.82' LT	-	52+89.83, 10.00' LT	12	2		
CH-109	52+95.48, 18.10' LT	-	56+45.98, 37.67' LT	18	3		
CH-114	61+42.35, 15.50' LT	-	63+09.70, 15.37' LT	6	1		
CH-115af	63+26.58, 11.00' LT	-	64+99.94, 13.38' LT	12	2		
CH-115	64+99.94, 13.38' LT	-	69+12.56, 18.13' LT	12	2		
CH-116	69+25.04, 11.00' LT	-	71+06.41, 11.00' LT	9	1.5		
CH-119	71+89.17, 13.83' LT	-	75+62.08, 21.83' LT	9	1.5		
CH-120	76+06.22, 15.61' LT	-	76+70.16, 20.00' LT	6	1		
CH-121	77+96.35, 16.89' LT	-	78+22.8, 22.75' LT	12	2		
CH-122	78+56.95, 15.50' LT	-	78+74.59, 18.43' LT	9	1.5		
CH-124	79+39.59, 15.35' LT	-	82+72.85, 17.53' LT	18	3		
CH-125f	82+73.23, 19.70' LT	-	83+32.05, 12.00' LT	6	1		
Gutter 125	83+32.05, 12.00' LT	-	83+58.99, 12.00' LT	-		GUTTER TYPE 2	4'
CH-125	83+68.89, 110.91' LT	-	83+62.28, 13.99' LT	24	4		

DITCH AND GUTTER TABLE

ID	STATION	TO	STATION	D50 SIZE	RIPRAP THICKNESS	GUTTER TYPE	WIDTH
				INCHES	FEET		FEET
CH-125b	83+58.99, 12.00' LT	-	84+40, 11.00' LT	24	4		
CH-127	87+25.72, 11.00' LT	-	88+87.76, 17.02' LT	9	1.5		
CH-128	90+27.44, 12.76' LT	-	90+56.32, 19.69' LT	9	1.5		
CH-129	91+41.92, 18.96' LT	-	91+83.22, 22.45' LT	9	1.5		
CH-131av	92+90.07, 8.99' LT	-	93+48.79, 18.04' LT	9	1.5		
Gutter 131	93+48.79, 18.04' LT	-	93+84.11. 13.68' LT	-		GUTTER TYPE 2	4'
CH-131z	93+84.21, 13.66' LT	-	96+80.00, 12.66' LT	9	1.5		
CH-131	96+80.00, 12.66' LT	-	98+78.95, 19.42' LT	12	2		
Gutter 159b	22+32.88, 11.21' RT	-	22+46.66, 11.39' RT	-		GUTTER TYPE 2	4'
CH-159	22+46.66, 11.39' RT	-	23+40.32, 11.00' RT	6	1		
Gutter 159a	23+40.32, 11.00' RT	-	23+59.13, 11.00' RT	-		GUTTER TYPE 2	4'
CH-159a	23+59.13, 11.00' RT	-	23+80.76, 15.48' RT	6			0
CH-104ab	31+14.16. 10.42' RT	-	32+70.00, 15.10' RT	9	1.5		
CH-104r	32+70.00, 15.10' RT	-	34+58.80, 19.03' RT	18	3		
CH-105an	34+69.40, 17.00' RT	-	38+01.98, 13.00' RT	18	3		
CH-105	38+01.98, 13.00' RT	-	42+59.71, 21.32' RT	18	3		
CH-142aw	42+68.23, 10.15' RT	-	47+55.88, 24.93' RT	9	1.5		
CH-142	48+45.00, 25.39' RT	-	48+77.38, 29.26' RT	12	2		
CH-157	57+59.73, 29.50' RT	-	57+83.83, 17.83' RT	9	1.5		
CH-110	58+29.72, 16.00' RT	-	59+83.03, 22.42' RT	9	1.5		
CH-126q	83+98.63, 11.00' RT	-	85+99.93, 12.00' RT	9	1.5		
CH-126	85+99.93, 12.00' RT	-	86+56.79, 19.19' RT	12	2		
Gutter 106	87+31.00, 25.22' RT	-	87+70.28, 40.39' RT	-		GUTTER TYPE 2	4'
CH-106	87+59.69, 32.06' RT	-	87+88.97, 35.78' RT	12	2		

100% SET

CALL UTILITY NOTIFICATION CENTER OF COLORADO
811
CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES

REVISIONS:	NO.	DATE	REVISION DESCRIPTION:

Boulder County
Michael Baker INTERNATIONAL

BOULDER COUNTY TRANSPORTATION DEPARTMENT
ENGINEERING DIVISION

DESIGNED:	CAD:	CHECKED:	DATE:
JLW	EMR	SLS	12/23/16

GOLD RUN ROAD
DRAINAGE DETAILS (SHEET 3 OF 5)

PROJECT NO: 4011.SEPT12C38 | SHEET NO: 163

jessica.wray 5:44:53 PM 12/21/2016 pw:\\DCPWAPP1bkr.mbakercorp.com:pwprod\Documents\Projects\Lakewood_Office\Boulder_County_Emergency_Transportation\T02\08_Sheet_Files\02_Hydraulics\DGN\DD-03.dgn

GOLD RUN ROAD DRAINAGE END CONDITIONS TABLE

STATION FROM	STATION TO	SIDE	DETAIL	RIPRAP D50 (INCHES)	S1 (H:V) OR (%)	W1 (FT)	S2 (H:V) OR (%)	W2 (FT)	S3 (H:V) OR (%)	Z (FT)	NOTES
21+27.58	21+43.38	LT	B2	6	6:1	VARIES	5%			SEE DRAINAGE PLAN	RIPRAP EXTENDS FROM ROADWAY TO EDGE OF GUTTER
22+30.00	22+95.00	LT	B1	9	2:1	1	0.5:1 (ROCK)			-	RIPRAP EXTENDS FROM ROADWAY TO LIMITS OF GRADING
22+95.00	26+06.11	LT	A	9	3:1					-	RIPRAP EXTENDS FROM ROADWAY TO TOE OF SLOPE
26+06.11	26+85.96	LT	B3	9	4:1	SEE DRAINAGE PLAN	2:1			6	2' LEFT, 4' RIGHT OF DITCH CENTERLINE
27+20.19	28+34.78	LT	C1	9	4:1	4	3:1	3	2%	7	
28+62.75	29+01.43	LT	C1	9	4:1	4	3:1	3	1.5:1	7	
29+01.43	29+22.08	LT	B2	9	4:1	SEE DRAINAGE PLAN	2:1				
29+51.26	29+65.00	LT	C1	12	4:1	4	3:1	3	1.5:1	7	
29+65.00	30+35.11	LT	D1	12	6:1	3	2:1			2	
30+35.11	30+77.95	LT	-	12		SEE DRAINAGE PLAN					
31+04.00	31+73.12	LT	B1	NO RIPRAP	4:1	6	5:1			NO RIPRAP	
48+48.23	52+89.00	LT	A	12	4:1					-	RIPRAP EXTENDS FROM ROADWAY TO TOE OF SLOPE
52+95.50	55+99.00	LT	A	18	4:1					-	RIPRAP EXTENDS FROM ROADWAY TO TOE OF SLOPE
55+99.00	56+37.73	LT	-	18		SEE DRAINAGE PLAN					
61+03.00	61+42.09	LT	-	NO RIPRAP		SEE DRAINAGE PLAN					
61+42.09	62+43.97	LT	C1	6	6:1	3.5	6:1	3	2:1	6.5	
62+43.97	62+97.00	LT	B2	6	6:1	SEE DRAINAGE PLAN	2:1				
63+28.58	64+50.00	LT	C1	12	2:1	1	2:1	1	6:1	2	
64+50.00	65+32.89	LT	D2	12	6:1	2	3:1			-	RIPRAP EXTENDS FROM ROADWAY TO TOE OF SLOPE
65+32.89	67+98.33	LT	C1	12	4:1	5.5	4:1	5.5	2%	11	
67+98.33	69+25.04	LT	C1	12	4:1	VARIES	4:1	VARIES	2%	SEE DRAINAGE PLAN	RIPRAP EXTENDS TO BEGINNING OF SLOPE S3
69+25.04	69+90.00	LT	C1	9	2:1	1	2:1	1	1:1	2	
69+90.00	70+80.00	LT	A	9	6:1					-	RIPRAP EXTENDS FROM ROADWAY TO TOE OF SLOPE
70+80.00	71+06.51	LT	C1	9	2:1	1	2:1	1	2%	2	
71+06.51	71+17.14	LT	-	18		SEE DRAINAGE PLAN					
71+79.14	74+75.00	LT	A	9	6:1					-	RIPRAP EXTENDS FROM ROADWAY TO TOE OF SLOPE
74+75.00	75+35.38	LT	C1	9	6:1	5	6:1	5	2%	10	
75+35.38	75+71.51	LT	-	9		SEE DRAINAGE PLAN					
76+10.45	76+50.75	LT	C1	6	6:1	5	6:1	5	2%	10	
77+60.77	77+96.45	LT	A	12	5:1					RIPRAP AT INLET ONLY	
77+96.45	78+24.00	LT	-	12		SEE DRAINAGE PLAN				RIPRAP AT INLET ONLY	
78+60.00	78+78.76	LT	-	9		SEE DRAINAGE PLAN					
79+02.08	79+19.13	LT	-	9		SEE DRAINAGE PLAN					
79+37.33	82+48.45	LT	A	18	5:1					-	RIPRAP EXTENDS FROM ROADWAY TO TOE OF SLOPE
82+72.59	83+32.05	LT	C2	6	12:1	2	12:1	2	5%	-	RIPRAP EXTENDS FROM ROADWAY TO WALL
83+81.92	84+20.00	LT	C2	24	12:1	2	12:1	2	5%	-	RIPRAP EXTENDS FROM ROADWAY TO WALL
87+30.00	88+64.41	LT	C1	9	2:1	1	2:1	1	2%	2	
88+64.41	88+72.94	LT	-	9		SEE DRAINAGE PLAN					
89+24.62	90+51.47	LT	A	NO RIPRAP	6:1					NO RIPRAP	
90+72.43	91+00.00	LT	A	9	5%					-	RIPRAP EXTENDS FROM ROADWAY TO TOE OF SLOPE
91+41.00	91+60.00	LT	C1	9	6:1	4	6:1	4	2%		
91+60.00	91+83.00	LT	-	9		SEE DRAINAGE PLAN					
91+83.00	92+90.00	LT	A	NO RIPRAP	4:1					-	RIPRAP EXTENDS FROM ROADWAY TO TOE OF SLOPE
92+90.00	93+48.79	LT	A	9	12:1					-	RIPRAP EXTENDS FROM ROADWAY TO TOE OF SLOPE
93+86.60	96+80.00	LT	C1	9	3:1	1.5	3:1	1.5	2%	3	
96+80.00	97+50.00	LT	C1	12	3:1	2.25	3:1	2.25	2%	4.5	
97+50.00	99+15.00	LT	C1	12	3:1	3	3:1	3	2%	6	
22+51.18	23+36.32	RT	B2	6	2:1	3	1.5:1			5	
31+14.00	32+75.00	RT	A	9	4:1					-	RIPRAP EXTENDS FROM ROADWAY TO TOE OF SLOPE
32+75.00	34+25.00	RT	B1	18	4:1	4	4:1			-	RIPRAP EXTENDS FROM ROADWAY TO GRADING LIMITS
34+25.00	34+69.40	RT	-	18		SEE DRAINAGE PLAN					
34+69.40	35+93.00	RT	B2	18	4:1	4	3:1			8	
35+93.00	37+68.00	RT	B2	18	4:1	4	2:1			8	
37+68.00	40+38.12	RT	B2	18	4:1	4	TO EXISTING TOE OF SLOPE			8	
40+38.12	42+16.00	RT	A	18	4:1					-	RIPRAP EXTENDS FROM ROADWAY TO TOE OF SLOPE
42+16.00	42+68.00	RT	-	18		SEE DRAINAGE PLAN					
42+68.00	46+18.00	RT	A	9	4:1					-	RIPRAP EXTENDS FROM ROADWAY TO TOE OF SLOPE
46+18.00	47+55.00	RT	D1	9	6:1	5	2:1			2	
47+55.00	48+45.00	RT	D1	NO RIPRAP	6:1	5	2:1			NO RIPRAP	
48+45.00	48+50.00	RT	-			SEE DRAINAGE PLAN					
58+30.00	59+60.00	RT	B2	9	6:1	4	2:1			6	
59+60.00	59+90.00	RT	-	9		SEE DRAINAGE PLAN					
84+03.00	86+00.00	RT	C1	9	2:1	1	2:1	1	2%	2	
86+00.00	86+30.00	RT	A	12	2:1					-	RIPRAP EXTENDS FROM ROADWAY TO TOE OF SLOPE
86+30.00	86+88.95	RT	-	NO RIPRAP		SEE DRAINAGE PLAN					

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GOLD RUN ROAD
DRAINAGE DETAILS (SHEET 4 OF 5)

PROJECT NO: 4011.SEPT12C38 | SHEET NO: 164

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ONSITE DRAINAGE RIPRAP TABLE

PIPE ID	STATION TO STATION			SIZE	TYPE	D (INCHES)	L (FEET)	W (FEET)	D50 SIZE (INCHES)	TYPE	RIPRAP THICKNESS (FEET)	RIPRAP LINING
P-101	26+78.85, 35.55' LT	-	27+24.68, 19.57' RT	48" RCP	INLET				9	SOIL RIPRAP	1.5	LINING B
					OUTLET	48	12	7	9	RIRAP	1.5	LINING B
P-102	29+16.01, 16.50' LT	-	29+21.99, 22.84' RT	18" RCP	INLET				9	SOIL RIPRAP	1.5	LINING B
					OUTLET	18	5	3	9	RIRAP	1.5	LINING B
P-103	30+42.59, 21.26' LT	-	30+48.10, 19.50' RT	24" RCP	INLET				12	SOIL RIPRAP	2	LINING B
					OUTLET	24	6	4	9	SOIL RIPRAP	1.5	LINING B
P-104	34+51.78, 16.90' RT	-	34+58.61, 20.22' RT	36" RCP	INLET				18	SOIL RIPRAP	3	LINING B
					OUTLET	36	9	6	9	RIRAP	1.5	LINING B
P-105	42+47.58, 16.07' RT	-	42+58.20, 18.08' LT	30" RCP	INLET				18	SOIL RIPRAP	3	LINING B
					OUTLET	30	8	5	9	RIRAP	1.5	LINING A
P-108	52+83.17, 16.01' LT	-	52+96.96, 25.10' RT	18" RCP	INLET				12	SOIL RIPRAP	2	LINING B
					OUTLET	18	5	4	9	RIRAP	1.5	LINING B
P-110	59+76.66, 20.53' RT	-	59+86.22, 20.03' LT	18" RCP	INLET				9	SOIL RIPRAP	1.5	LINING B
					OUTLET	18	5	3	12	RIRAP	2	LINING A
P-114	62+96.72, 14.17' LT	-	62+99.51, 21.31' RT	18" RCP	INLET				6	SOIL RIPRAP	1	LINING B
					OUTLET	18	5	3	9	RIRAP	1.5	LINING B
P-115	69+03.24, 14.33' LT	-	69+03.24, 24.61' RT	30" x 19" HERCP	INLET				12	SOIL RIPRAP	2	LINING B
					OUTLET	19	6	4	9	RIRAP	1.5	LINING B
P-117a	71+33.83, 16.38' LT	-	71+57.54, 12.98' RT	42" RCP	INLET				18	SOIL RIPRAP	3	LINING B
P-117b	71+38.33, 19.95' LT	-	71+69.54, 12.86' RT	42" RCP	INLET				18	SOIL RIPRAP	3	LINING B
P-118	71+71.48, 19.26' LT	-	72+19.39, 17.88' RT	30" x 19" HERCP	INLET				9	SOIL RIPRAP	1.5	LINING B
					OUTLET	19	5	3	12	RIRAP	2	LINING B
P-119	75+52.78, 18.06' LT	-	75+81.36, 22.80' RT	18" RCP	INLET				9	SOIL RIPRAP	1.5	LINING B
					OUTLET	18	5	3	9	RIRAP	1.5	LINING B
P-120	76+68.40, 12.83' LT	-	76+76.57, 28.36' RT	18" RCP	INLET				6	SOIL RIPRAP	1	LINING B
					OUTLET	18	5	3	9	RIRAP	1.5	LINING B
P-121	78+16.26, 16.30' LT	-	78+17.33, 18.81' RT	18" RCP	INLET				12	SOIL RIPRAP	2	LINING B
					OUTLET	18	5	3	9	RIRAP	1.5	LINING B
P-122	78+74.59, 18.43' LT	-	79+03.92, 15.29' LT	18" RCP	INLET				9	SOIL RIPRAP	1.5	LINING B
					OUTLET	18	5	3	9	SOIL RIPRAP	1.5	LINING B
P-123	79+15.70, 15.53' LT	-	79+17.97, 25.31' RT	18" RCP	INLET				9	SOIL RIPRAP	1.5	LINING B
					OUTLET	18	5	3	9	RIRAP	1.5	LINING B
P-124	82+62.29, 13.25' LT	-	82+65.35, 23.50' RT	30" RCP	INLET				18	SOIL RIPRAP	3	LINING B
					OUTLET	30	8	5	9	RIRAP	1.5	LINING B
P-125	83+52.76, 122.82' LT	-	83+69.37, 103.43' LT	23" x 14" HERCP	INLET				24	SOIL RIPRAP	4	LINING B
					OUTLET	14	5	3	24	SOIL RIPRAP	4	LINING B
P-126	86+49.36, 14.32' RT	-	86+63.35, 20.65' LT	24" RCP	INLET				12	SOIL RIPRAP	2	LINING B
					OUTLET	24	6	4	9	RIRAP	1.5	LINING B
P-127	88+84.26, 11.94' LT	-	89+08.29, 18.41' RT	18" RCP	INLET				9	SOIL RIPRAP	1.5	LINING B
					OUTLET	18	5	3	9	RIRAP	1.5	LINING B
P-128	90+50.25, 16.31' LT	-	90+66.90, 18.16' RT	18" RCP	INLET				9	SOIL RIPRAP	1.5	LINING B
					OUTLET	18	5	3	9	RIRAP	1.5	LINING B
P-129	91+77.72, 14.85' LT	-	91+97.71, 18.61' RT	18" RCP	INLET				9	SOIL RIPRAP	1.5	LINING B
					OUTLET	18	5	3	9	RIRAP	1.5	LINING A
P-131	98+73.56, 17.52' LT	-	98+74.44, 16.73' RT	18" RCP	INLET				12	SOIL RIPRAP	2	LINING B
					OUTLET	18	5	3	9	RIRAP	1.5	LINING B
P-132	21+86.15, 21.56' LT	-	21+87.07, 25.27' RT	42" RCP	INLET				18	SOIL RIPRAP	3	LINING B
					OUTLET	42	32	6.5	18	RIRAP	3	LINING B
P-157	57+75.43, 18.02' RT	-	57+98.85, 20.78' LT	18" RCP	INLET				9	SOIL RIPRAP	1.5	LINING B
					OUTLET	18	5	3	9	RIRAP	1.5	LINING B

GOLD RUN RIPRAP TABLE

PIPE ID	UPSTREAM D50 (IN)	DOWNSTREAM D50 (IN)
CULVERT P-135	9	24
CULVERT P-134	9	18
CULVERT P-106	12	24
CULVERT P-136	36	9
CULVERT P-159	12	18
CULVERT P-137	9	36
CULVERT P-138	18	36
CULVERT P-107	12	24
OUTLET P-160	9	48
CULVERT P-150	9	12
CULVERT P-152	9	9
CULVERT P-153	9	18
CULVERT P-154	18	9
CULVERT P-139	9	18

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