GENERAL NOTES

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE COLORADO DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2011 AND THE PROJECT SPECIAL PROVISIONS.

STATIONS, ELEVATIONS, AND DIMENSIONS CONTAINED IN THESE PLANS ARE CALCULATED FROM A RECENT FIELD SURVEY. THE CONTRACTOR SHALL VERIFY ALL DEPENDENT DIMENSIONS IN THE FIELD BEFORE ORDERING OR FABRICATING ANY MATERIAL.

THE INFORMATION SHOWN ON THESE PLANS CONCERNING THE TYPE AND LOCATION OF UNDERGROUND UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING THEIR OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. THE CONTRACTOR SHALL CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO AT 811 (1-800-922-1987) AT LEAST 3 DAYS (2 DAYS NOT INCLUDING THE DAY OF NOTIFICATION) PRIOR TO ANY EXCAVATION OR OTHER EARTHWORK.

EXCEPT AS SHOWN IN THE PLANS, STRUCTURE EXCAVATION AND BACKFILL SHALL BE IN ACCORDANCE WITH CDOT STANDARD PLAN NO. M-206-1.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STABILITY OF THE STRUCTURE DURING CONSTRUCTION.

ALL EXPOSED CONCRETE SURFACES SHALL RECEIVE A CLASS 1 FINAL FINISH TO ONE FOOT BELOW FINISHED GRADE, UNLESS NOTED OTHERWISE.

EXPANSION JOINT MATERIAL SHALL MEET AASHTO SPECIFICATION M213.

ROUGHENED CONSTRUCTION JOINTS REQUIRE THE CONCRETE SURFACE TO BE EVENLY ROUGHENED TO A MINIMUM AMPLITUDE OF 1/4".

CONSTRUCTION JOINTS SHALL BE THOROUGHLY CLEANED BEFORE FRESH CONCRETE IS PLACED.

GRADE 60 REINFORCING STEEL IS REQUIRED.

ALL REINFORCING STEEL SHALL BE EPOXY COATED UNLESS OTHERWISE NOTED.

Ⓝ DENOTES NON COATED REINFORCING STEEL.

ALL ACRONYMS AND ABBREVIATIONS ARE CONSISTENT WITH CDOT STANDARD PLAN NO. M-100-2, UNLESS NOTED OTHERWISE.

THE FOLLOWING TABLE GIVES THE MINIMUM LAP SPLICE LENGTH FOR REINFORCING BARS PLACED IN ACCORDANCE WITH SUBSECITON 602.06.

REINFORCING BAR SIZE	#4	#5	#6	#7	#8	#9	#10	#11
3 BAR DIAMETERS (REFERENCE DIMENSION)	1 1/2"	1 7/8"	2 1/4"	2 5/8"	3"	3 3/8"	3 7/8"	4 1/4"
6 BAR DIAMETERS (REFERENCE DIMENSION)	3"	3 3/4"	4 1/2"	5 1/4"	6"	6 3/4"	7 5/8"	8 1/2"
EPOXY COATED REINFORCING BAR SIZE	#4	#5	#6	#7	#8	#9	#10	#11
CLASS B SPLICE (STAGGERED) LENGTH FOR 4,500 PSI CONCRETE	1'-7"	2'-0"	2'-5"	2'-10"	3'-8"	4'-8"	5'-11"	7'-3"
CLASS C SPLICE (UNSTAGGERED) LENGTH FOR 4,500 PSI CONCRETE	2'-1"	2'-7"	3'-1"	3'-8"	4'-9"	6'-1"	7'-8"	9'-5"
NON COATED REINFORCING BAR SIZE	#4 Ⓝ	#5 Ⓝ	#6 Ⓝ	#7 Ⓝ	#8 Ⓝ	#9 Ⓝ	#10 Ⓝ	#11 Ⓝ
CLASS B SPLICE (STAGGERED) LENGTH FOR 4,500 PSI CONCRETE	1'-4"	1'-8"	2'-0"	2'-4"	3'-1"	3'-10"	4'-11"	6'-0"
CLASS C SPLICE (UNSTAGGERED) LENGTH FOR 4,500 PSI CONCRETE	1'-9"	2'-2"	2'-7"	3'-1"	4'-0"	5'-1"	6'-5"	7'-10"

THESE SPLICE LENGTHS MAY BE DECREASED BY 20% IF BARS ARE NOT SPACED LESS THAN 6 INCHES ON CENTER AND HAVE 3 INCHES OR MORE OF COVER PROVIDED IN THE DIRECTION OF THE SPACING.

THESE SPLICE LENGTHS MAY BE DECREASED 25% IF BARS ARE ENCLOSED WITHIN A SPIRAL COMPOSED OF 1/4" MINIMUM DIAMETER AND SPACED AT NOT MORE THAN A 4 INCH PITCH

THESE SPLICE LENGTHS SHALL BE INCREASED BY 20% FOR 3 BAR BUNDLES AND 33% FOR 4 BAR BUNDLES.

WHEN THE CONTRACTOR ELECTS TO SUBSTITUTE EPOXY COATED REINFORCEMEMT FOR NON-EPOXY COATED REINFORCING BARS, THE MINIMUM LAP SPLICE SHALL BE FOR EPOXY COATED REINFORCING.

DESIGN DATA

AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS SIXTH EDITION (2012) WITH 2013 INTERIMS

DESIGN METHOD: LOAD AND RESISTANCE FACTOR DESIGN

SEISMIC ZONE 1

REINFORCED CONCRETE:
- CLASS D CONCRETE: f'c = 4,500 PSI
- REINFORCING STEEL: fy = 60,000 PSI
- SEVERITY OF SULFATE EXPOSURE: CLASS _ (TBD)

STRUCTURAL STEEL:
- AASHTO M270 (ASTM A709) GRADE 36: fy = 36,000 PSI
- AASHTO M270 (ASTM A709) GRADE 50: fy = 50,000 PSI

INDEX OF DRAWINGS

89	GENERAL INFORMATION
90-98	WALL GENERAL LAYOUTS
99	WALL TYPICAL SECTIONS

WALL 1 DESCRIPTION

ANCHORED WALL
WAGONWHEEL GAP ROAD LT.

WALL 2 DESCRIPTION

ANCHORED WALL
WAGONWHEEL GAP ROAD LT.

WALL 3 DESCRIPTION

ANCHORED WALL
WAGONWHEEL GAP ROAD LT.

FOR BURIED UTILITY INFORMATION
THREE (3) BUSINESS DAYS BEFORE YOU DIG
CALL 811
(or 1-800-922-1987)
UTILITY NOTIFICATION CENTER OF COLORADO (UNCC)
www.uncc.org

XX
XX
SECTION OR DETAIL IDENTIFICATION
CROSS REFERENCE DRAWING NUMBER
(IF "-", REFERENCE IS TO SAME SHEET)

60% 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:

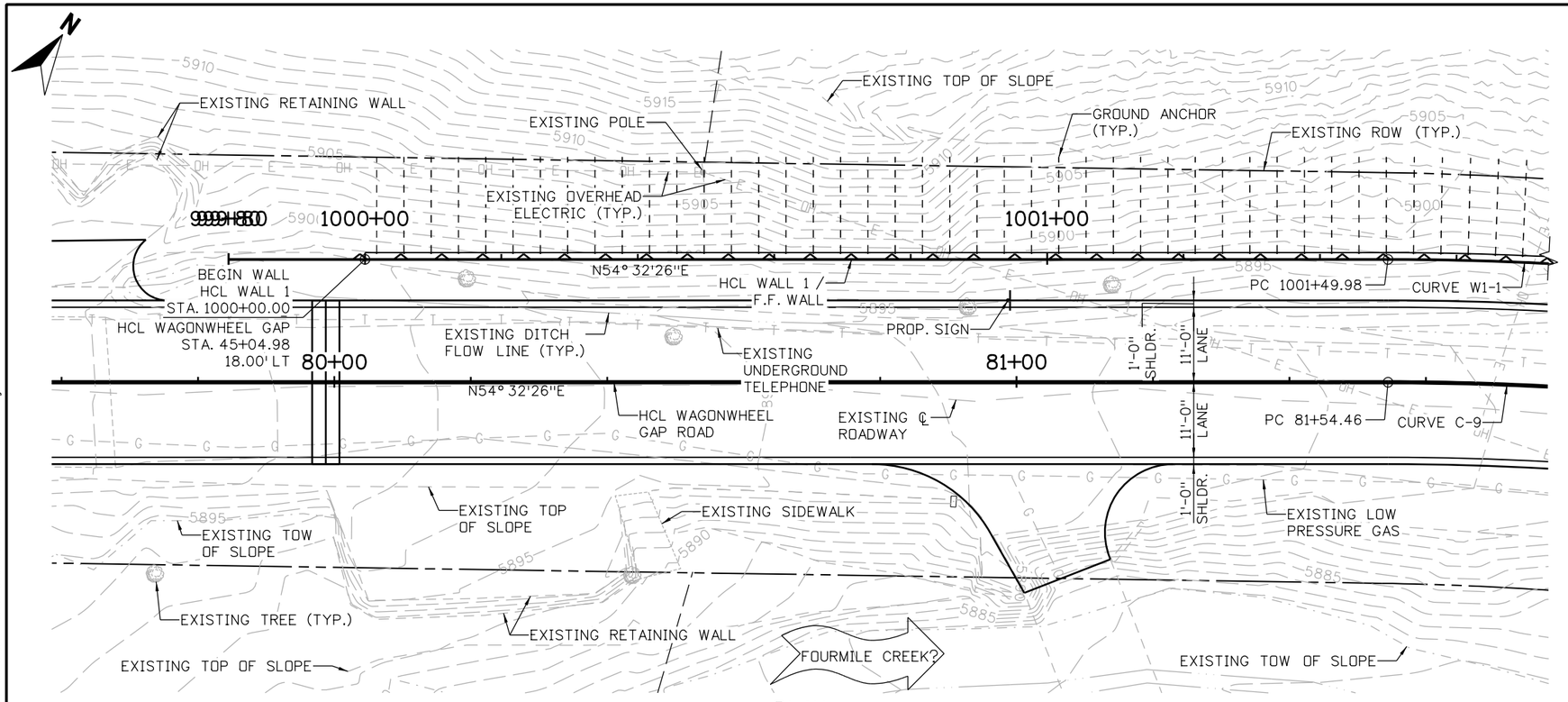
BOULDER COUNTY TRANSPORTATION DEPARTMENT
ENGINEERING DIVISION
Michael Baker INTERNATIONAL

DESIGNED:	CAD:	CHECKED:	DATE:
DLT	BMT		3/4/2016

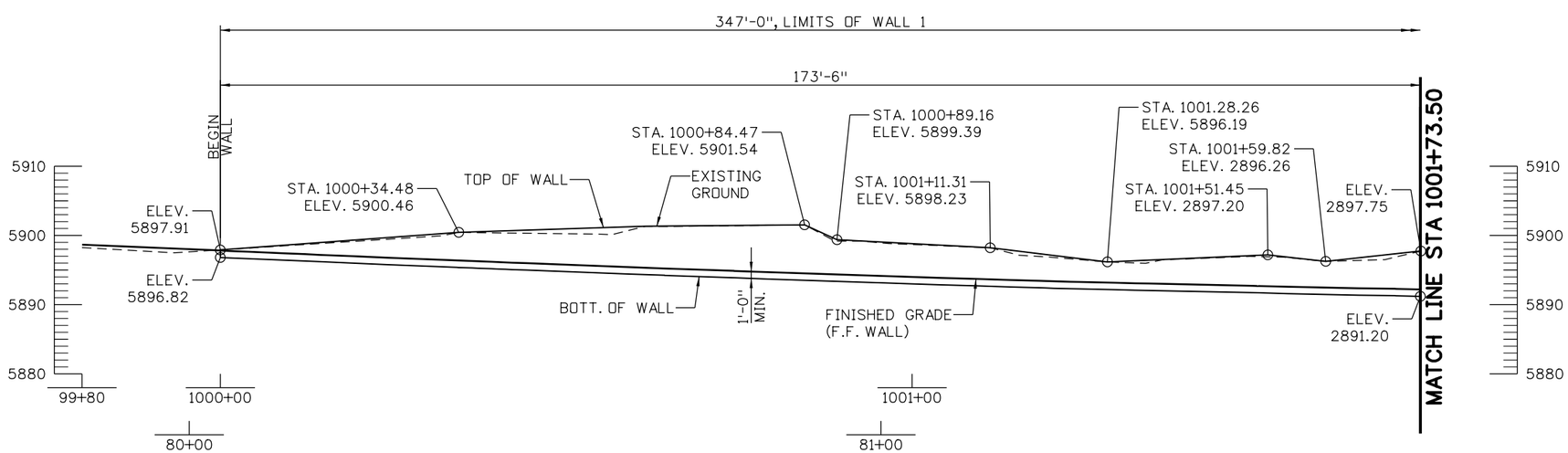
WAGONWHEEL GAP ROAD WALLS
GENERAL INFORMATION

PROJECT NO: 4043.SEPT12C34 SHEET NO: 90

brett.terrell 3:24:27 PM pw:\\DCPWAPP1.bkr.mbakercorp.com:pwprod\Documents\Projects\Lakewood_Office\Boulder_County_Emergency_Transportation\T04\08_Sheet_Files\06_Structures\DGN\Walls\138200_WALL_01.dgn



PLAN



ELEVATION

TAKEN AT HCL WALL 1 / F.F. WALL

NOTES:

1. FOR FINISHED GRADING REFER TO DRAINAGE PLANS.
2. FOR REMOVALS, UTILITY, AND GUARDRAIL INFORMATION REFER TO ROADWAY PLANS.
3. FOR ROADWAY GEOMETRICS, REFER TO ROADWAY PLANS.
4. GEOTECHNICAL INFORMATION AND RECOMMENDATIONS CAN BE FOUND IN THE PRELIMINARY DRAFT GEOTECHNICAL AND PAVEMENT INVESTIGATION REPORT, WAGONWHEEL GAP ROAD, BOULDER COUNTY, COLORADO, DATED MARCH 3, 2016
5. GROUND NAILS ARE GENERICALLY SHOWN. SEE GROUND NAIL LAYOUT FOR ACTUAL LOCATIONS.

CURVE W1-1 DATA

Δ = 27° 08'57" RT
R = 458.00'
L = 217.02'
T = 110.59'
PI 1002+60.57
N 266607.92
E 53816.96

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60% SET

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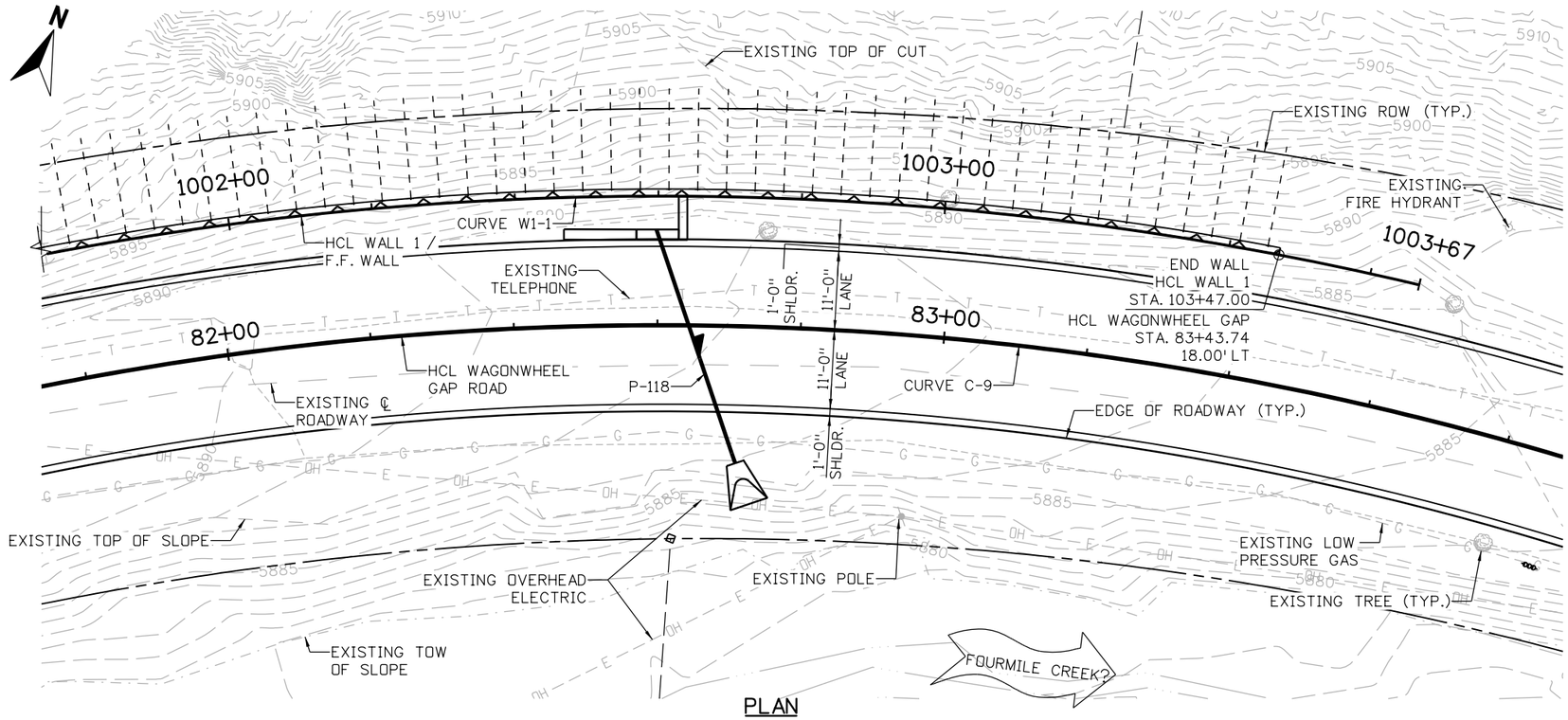
DLT	BMT		3/4/2016

WAGONWHEEL GAP ROAD WALLS
RETAINING WALL 1
GENERAL LAYOUT (1 OF 2)

PROJECT NO: 4043.SEPT12C34 SHEET NO: 91



PLAN

NOTES:

1. FOR FINISHED GRADING, END SECTIONS, HEADWALL AND WINGWALL DETAILS, REFER TO DRAINAGE PLANS.
2. FOR REMOVALS, UTILITY, AND GUARDRAIL INFORMATION REFER TO ROADWAY PLANS.
3. FOR ROADWAY GEOMETRICS, REFER TO ROADWAY PLANS.
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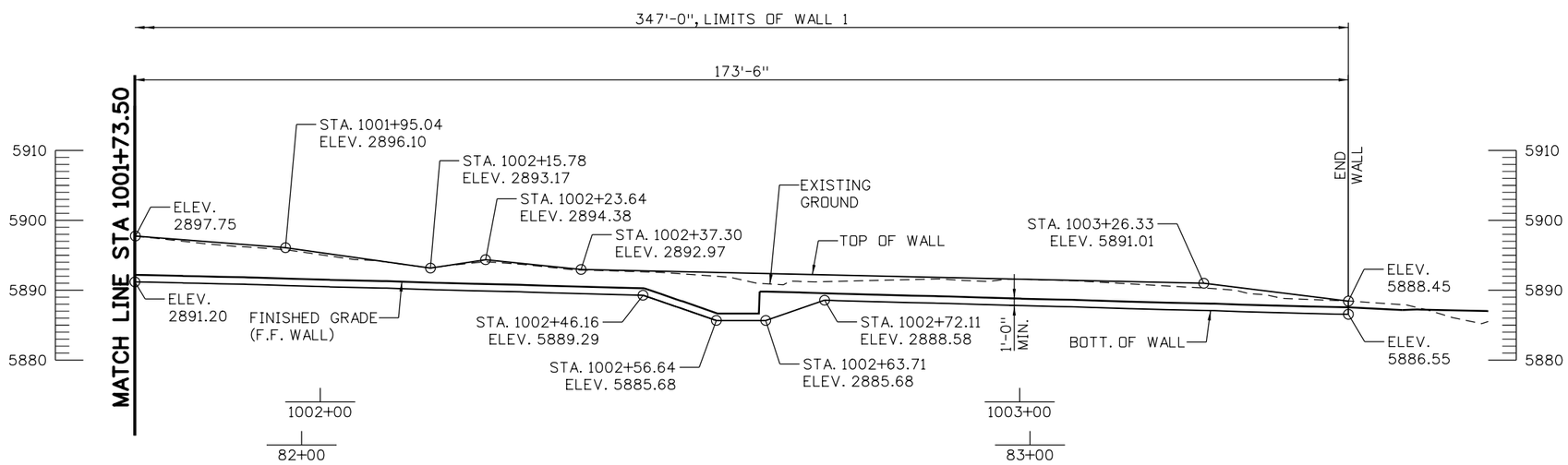
L = 217.02'
T = 110.59'
PI 1002+60.57
N 266607.92
E 53816.96



ELEVATION
TAKEN AT HCL WALL 1 / F.F. WALL

60% 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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Michael Baker INTERNATIONAL

BOULDER COUNTY TRANSPORTATION DEPARTMENT
ENGINEERING DIVISION

DESIGNED:	CAD:	CHECKED:	DATE:
DLT	BMT		3/4/2016

WAGONWHEEL GAP ROAD WALLS
RETAINING WALL 1
GENERAL LAYOUT (2 OF 2)

PROJECT NO: 4043.SEPT12C34 | SHEET NO: 92

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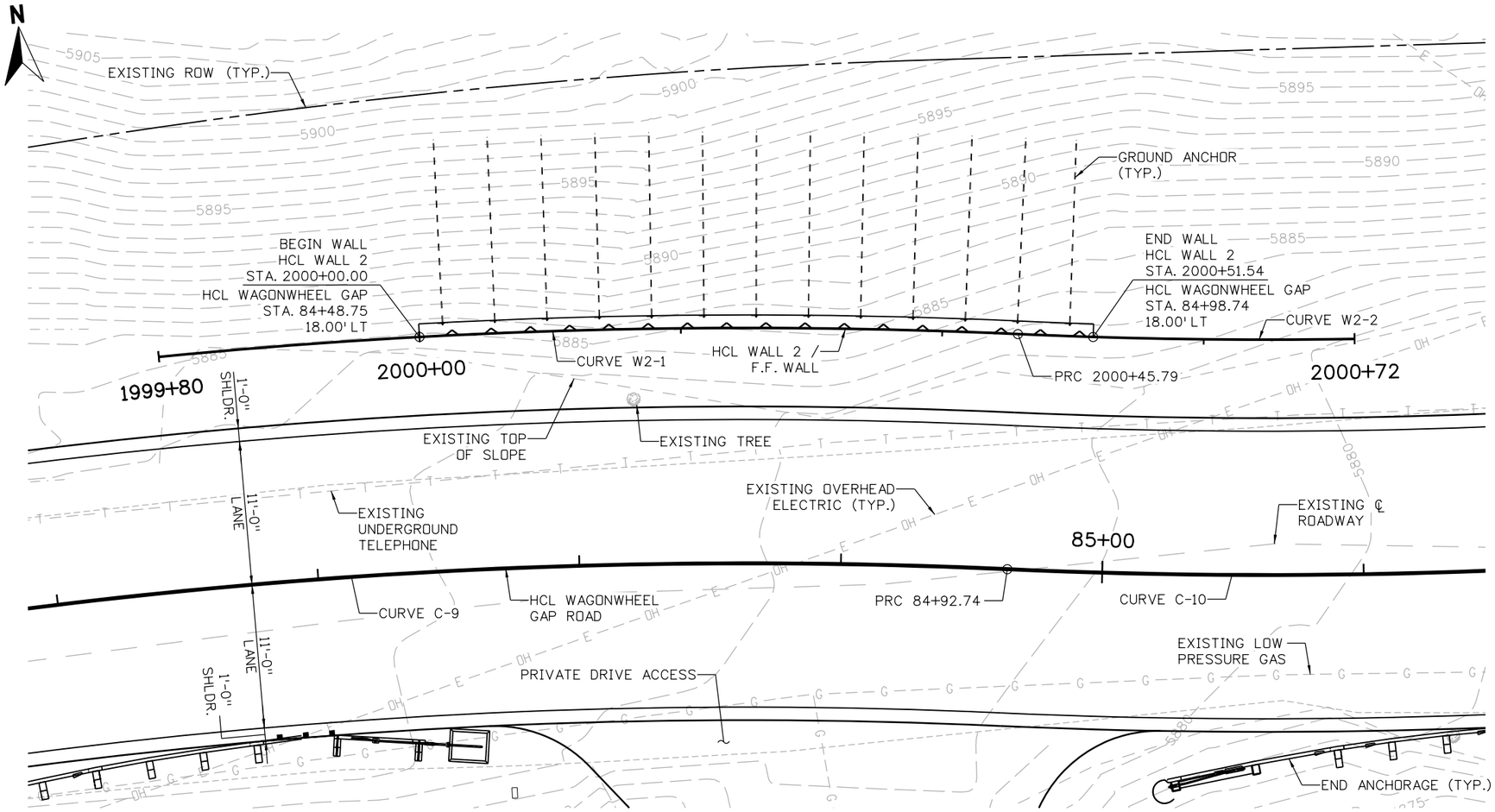

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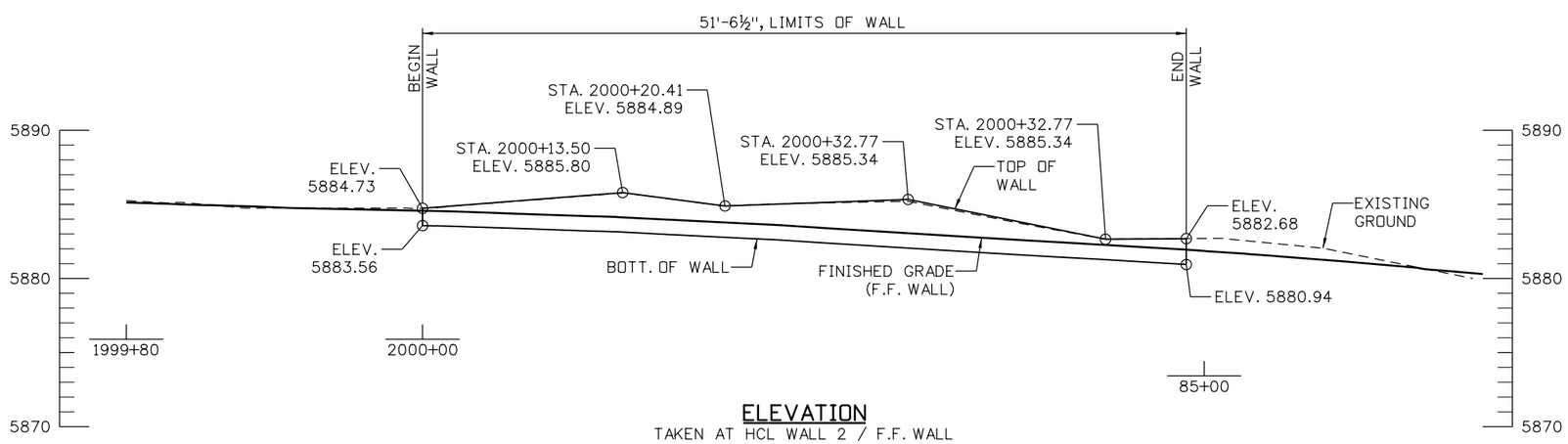

ELEVATION

TAKEN AT HCL WALL 2 / F.F. WALL

NOTES:

1. FOR FINISHED GRADING REFER TO DRAINAGE PLANS.
2. FOR REMOVALS, UTILITY, AND GUARDRAIL INFORMATION REFER TO ROADWAY PLANS.
3. FOR ROADWAY GEOMETRICS, REFER TO ROADWAY PLANS.
4. GEOTECHNICAL INFORMATION AND RECOMMENDATIONS CAN BE FOUND IN THE PRELIMINARY DRAFT GEOTECHNICAL AND PAVEMENT INVESTIGATION REPORT, WAGONWHEEL GAP ROAD, BOULDER COUNTY, COLORADO, DATED MARCH 3, 2016
5. GROUND NAILS ARE GENERICALLY SHOWN. SEE GROUND NAIL LAYOUT FOR ACTUAL LOCATIONS.

CURVE W2-1 DATA:

Δ = 8°13'48" RT
R = 458.00'
L = 65.79'
T = 32.95'
PI 2000+12.95
N 266628.49
E 54028.41

CURVE W2-2 DATA:

Δ = 03°30'48" LT
R = 420.00'
L = 25.75'
T = 12.88'
PI 2000+58.67
N 266621.64
E 54073.73

60% SET

CALL UTILITY NOTIFICATION CENTER OF COLORADO
811
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WAGONWHEEL GAP ROAD WALLS
RETAINING WALL 2
GENERAL LAYOUT

PROJECT NO: 4043.SEPT12C34 | SHEET NO: 93

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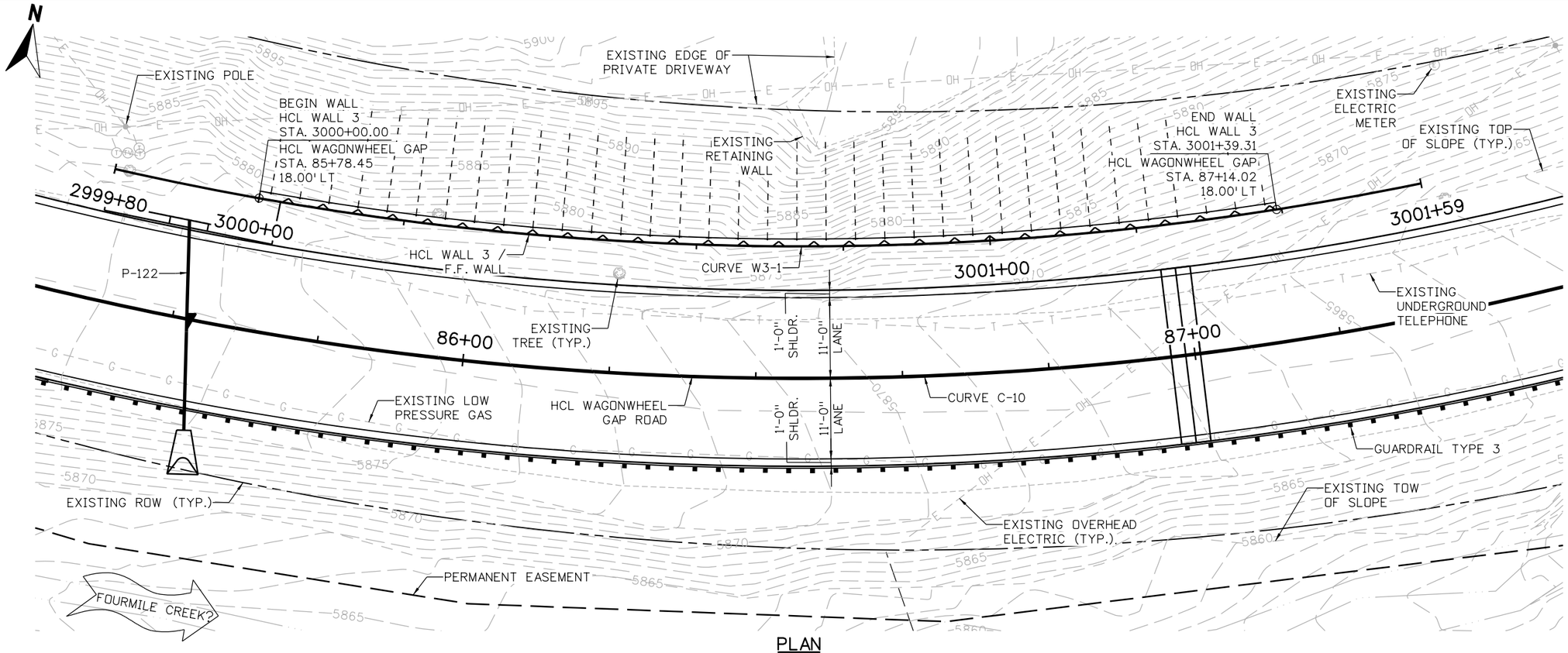

PLAN

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CURVE W3-1 DATA

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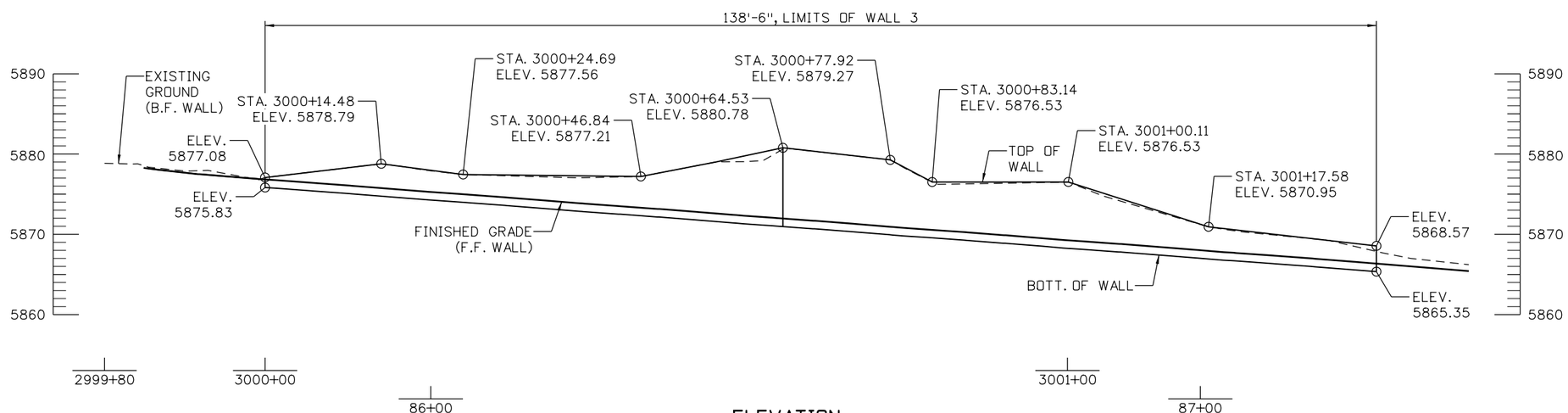
R = 420.00'
L = 179.31'
T = 91.04'
PI 3000+71.04
N 266616.79
E 54204.66



ELEVATION
TAKEN AT HCL WALL 3 / F.F. WALL

60% SET

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

BOULDER COUNTY TRANSPORTATION DEPARTMENT
ENGINEERING DIVISION
Michael Baker INTERNATIONAL

DESIGNED:	CAD:	CHECKED:	DATE:
DLT	BMT		3/4/2016

WAGONWHEEL GAP ROAD WALLS
RETAINING WALL 3
GENERAL LAYOUT

PROJECT NO: 4043.SEPT12C34 | SHEET NO: 94

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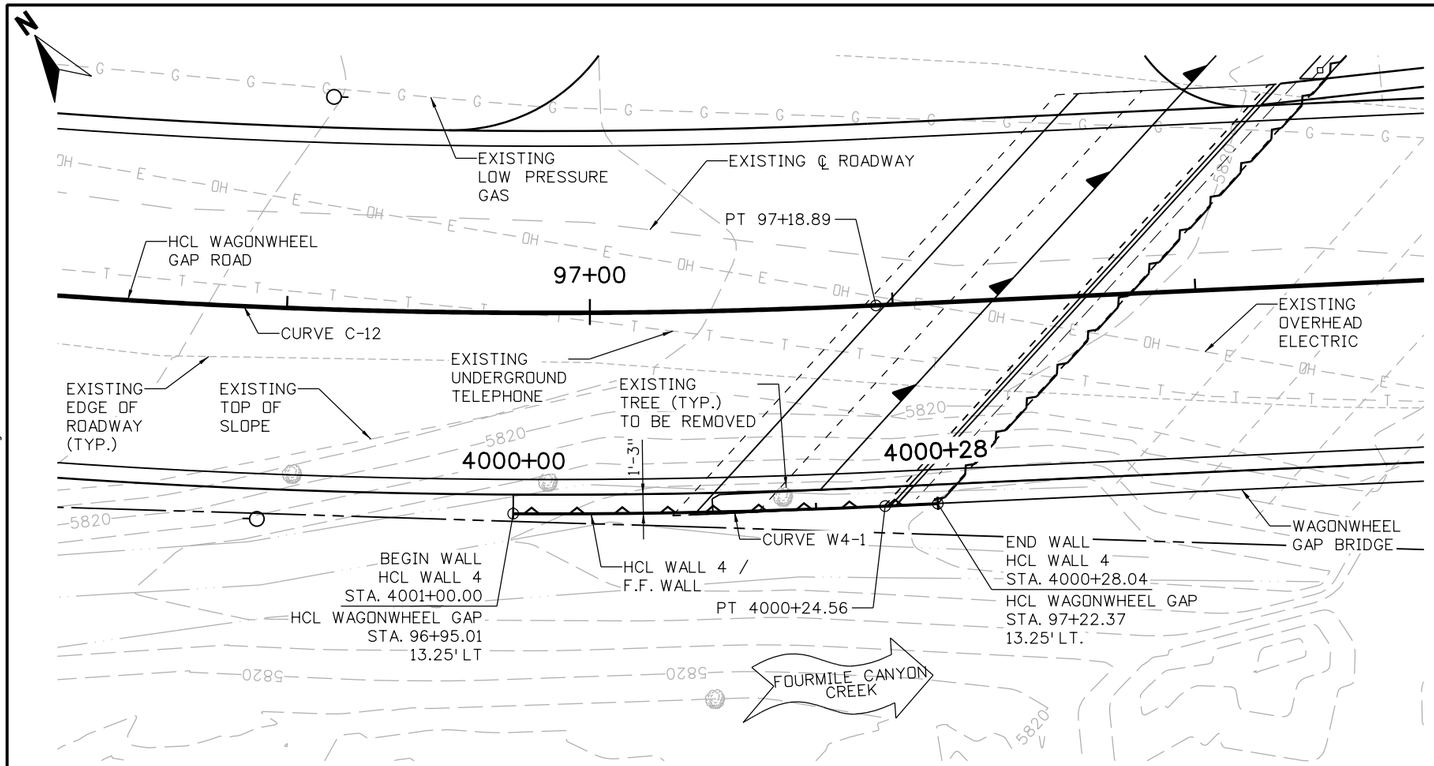

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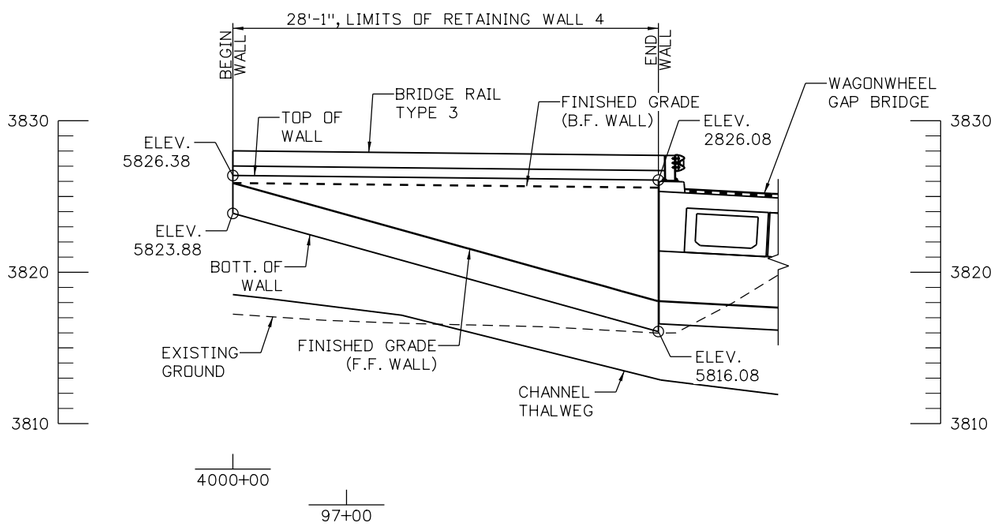

ELEVATION

TAKEN AT HCL WALL 4 / F.F. WALL

NOTES:

1. FOR FINISHED GRADING REFER TO DRAINAGE PLANS.
2. FOR REMOVALS, UTILITY, AND GUARDRAIL INFORMATION REFER TO ROADWAY PLANS.
3. FOR ROADWAY GEOMETRICS, REFER TO ROADWAY PLANS.
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5. FOR BRIDGE DETAILS, SEE BRIDGE PLANS.

CURVE W4-1 DATA

Δ = 2°56'32" LT
R = 478.26'
L = 24.56'
T = 12.28'
PI 4000+12.28
N 266779.98
E 55060.17

60% 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
Michael Baker INTERNATIONAL

BOULDER COUNTY TRANSPORTATION DEPARTMENT
ENGINEERING DIVISION

DESIGNED:	CAD:	CHECKED:	DATE:
DLT	BMT		3/4/2016

WAGONWHEEL GAP ROAD WALLS
RETAINING WALL 4
GENERAL LAYOUT

PROJECT NO: 4043.SEPT12C34 | SHEET NO: 95

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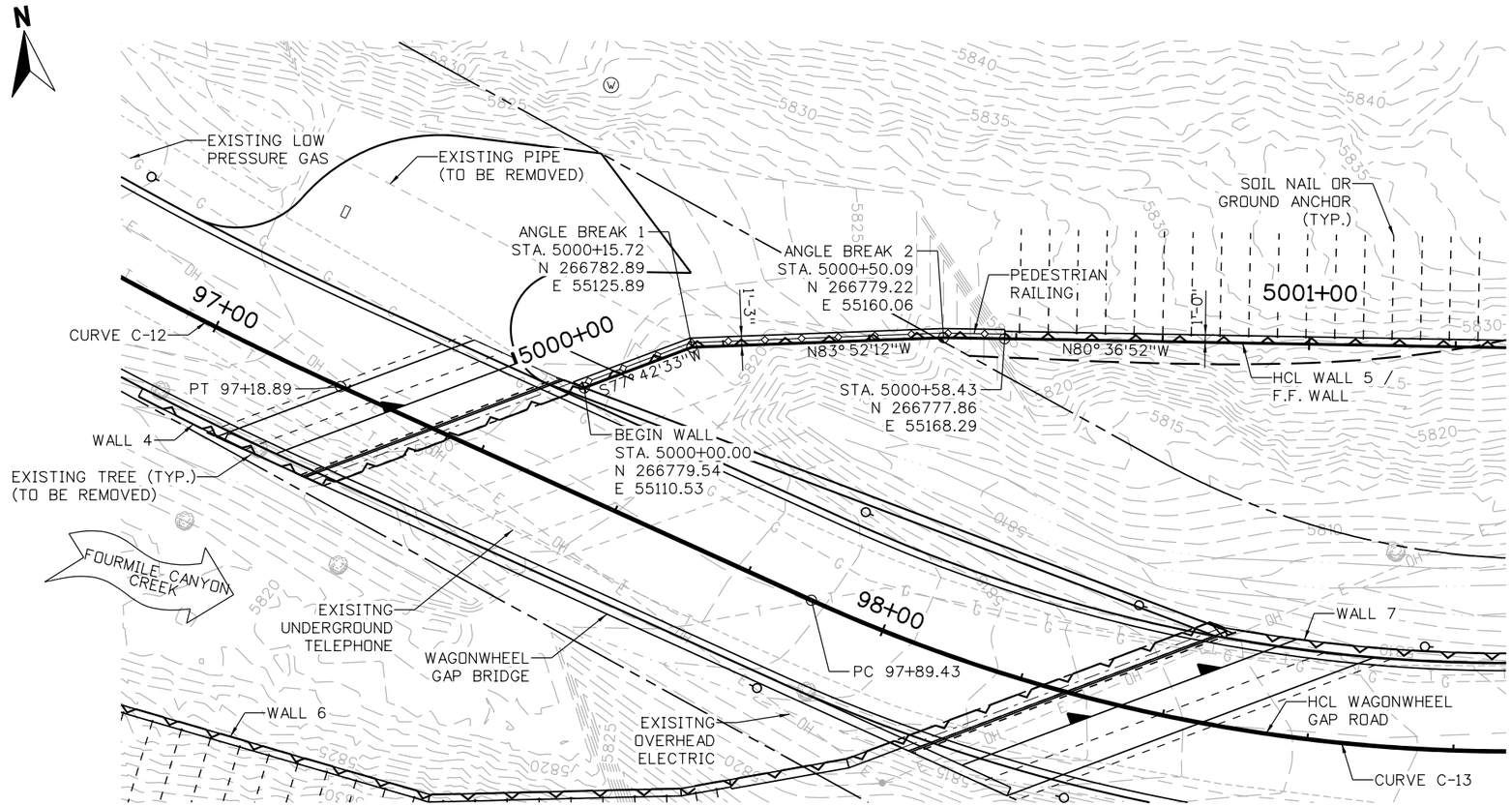

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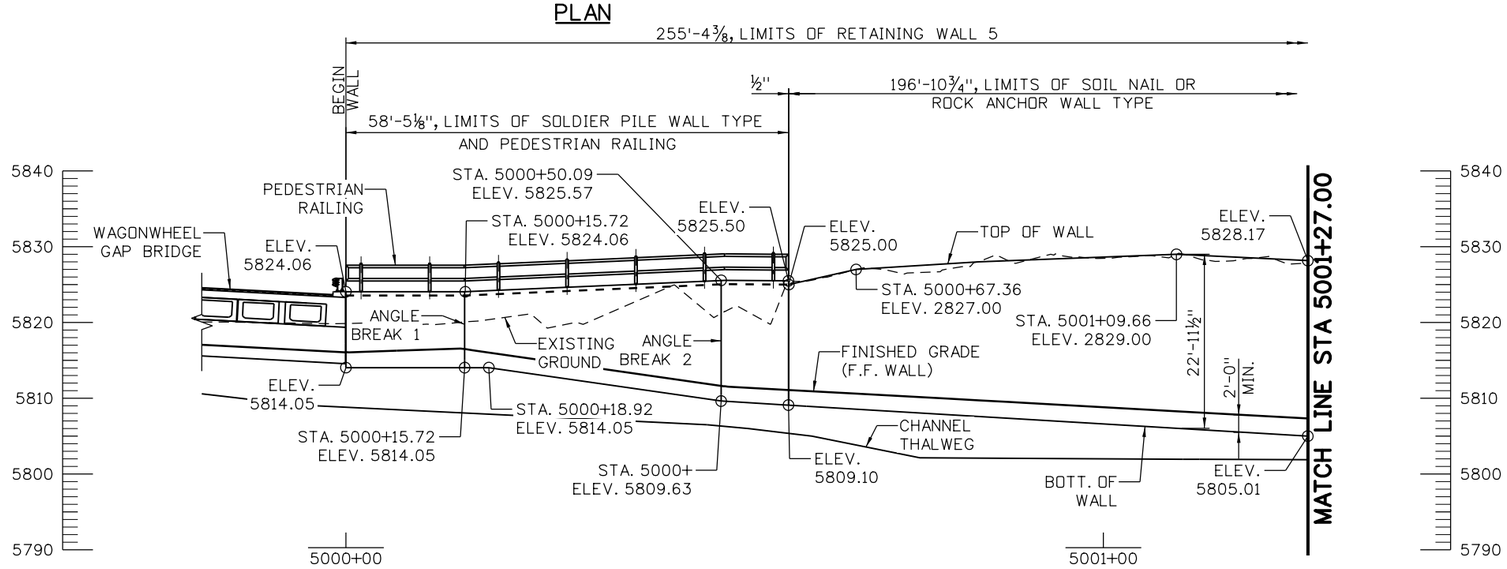

ELEVATION

TAKEN AT HCL WALL 5 / F.F. WALL

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5. GROUND NAILS ARE GENERICALLY SHOWN. SEE GROUND NAIL LAYOUT FOR ACTUAL LOCATIONS.
6. SCOUR ANALYSIS HAS NOT BEEN COMPLETED AT THIS TIME. BOTTOM OF WALL IS TO BE REVISED TO THESE LIMITS.
7. SOLDIER PILE WALLS MAY NEED TO BE ANCHORED TO AVOID EXCESSIVE DEFLECTION.
8. FOR BRIDGE DETAILS, SEE BRIDGE PLANS.

60% 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:
DLT	BMT		3/4/2016

WAGONWHEEL GAP ROAD WALLS
RETAINING WALL 5
GENERAL LAYOUT (1 OF 2)

PROJECT NO: 4043.SEPT12C34 | SHEET NO: 96

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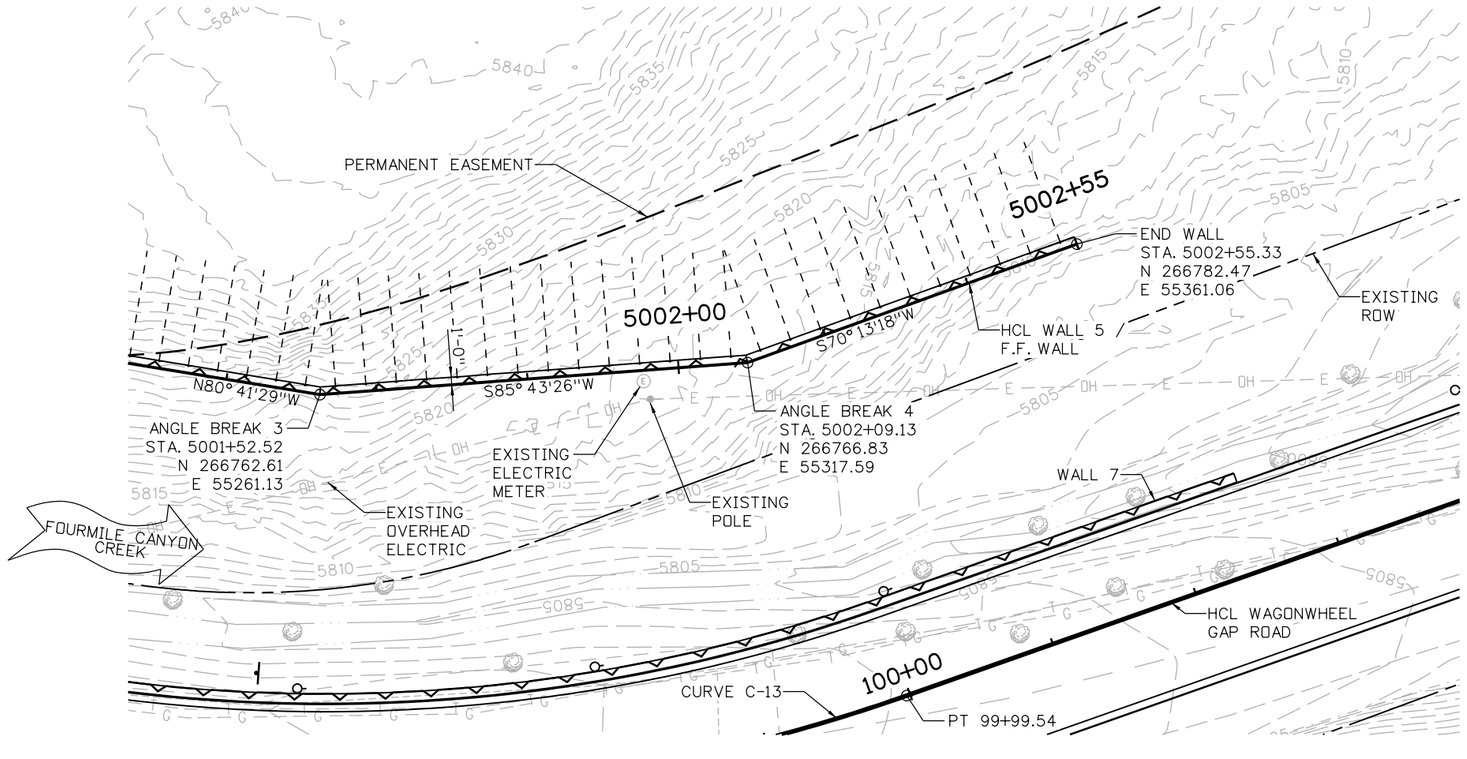

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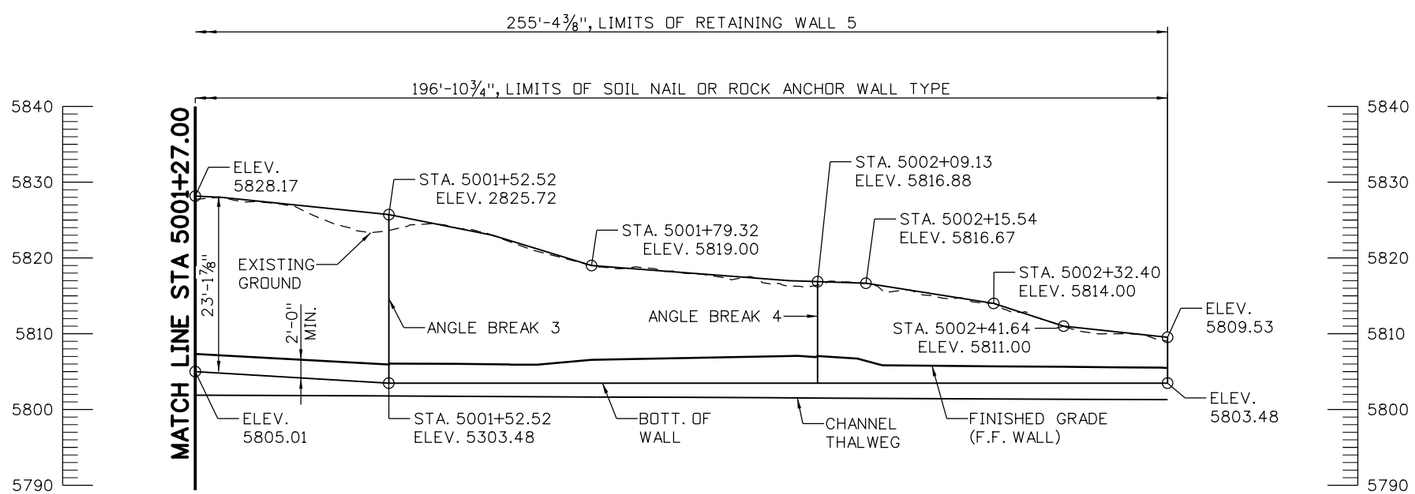

ELEVATION

TAKEN AT HCL WALL 5 / F.F. WALL

60% SET

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Boulder County

Michael Baker INTERNATIONAL

BOULDER COUNTY TRANSPORTATION DEPARTMENT
ENGINEERING DIVISION

DESIGNED:	CAD:	CHECKED:	DATE:
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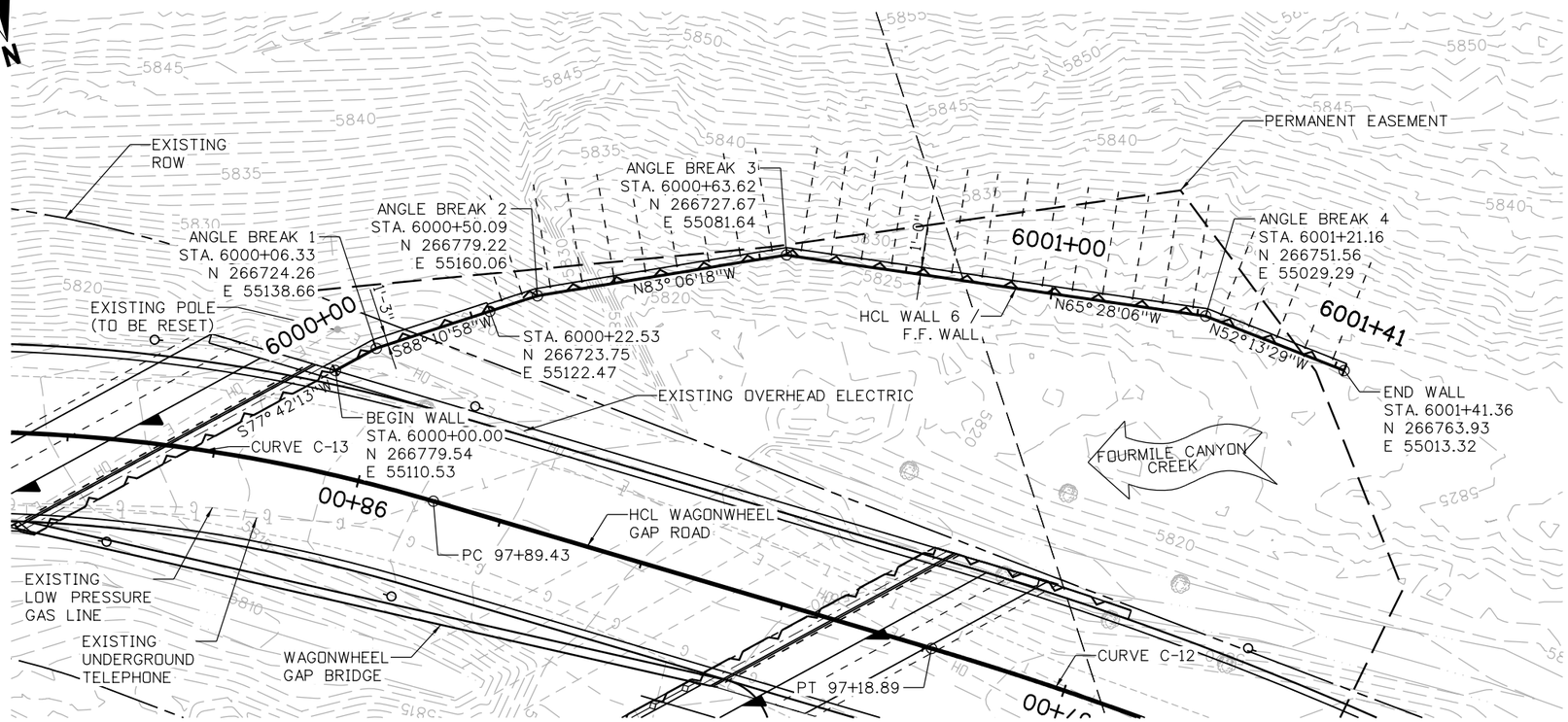
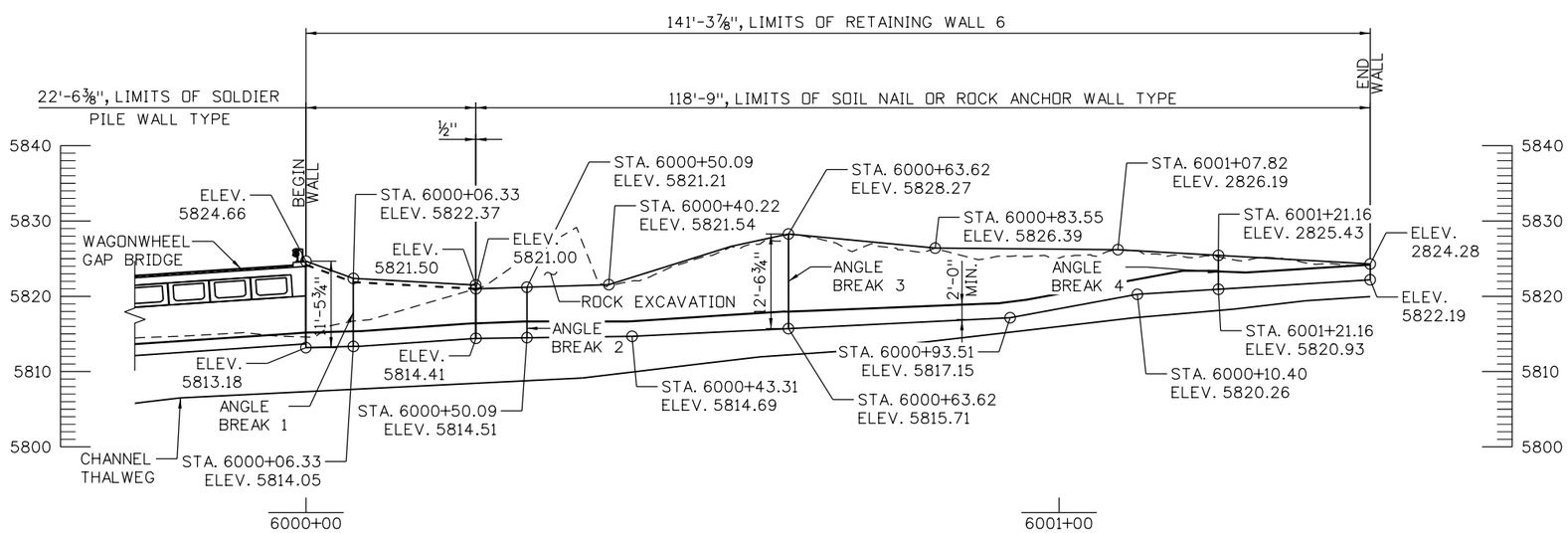
WAGONWHEEL GAP ROAD WALLS
RETAINING WALL 5
GENERAL LAYOUT (2 OF 2)

PROJECT NO: 4043.SEPT12C34 | SHEET NO: 97

brett.terrell 3:28:20 PM pw:\\DCPWAPP1.bkr.mbakercorp.com:pwprod\Documents\Projects\Lakewood_Office\Boulder_County_Emergency_Transportation\T04\08_Sheet_Files\06_Structures\DGN\Walls\138200_WALL_08.dgn



PLAN



ELEVATION

TAKEN AT HCL WALL 6 / F.F. WALL

NOTES:

1. FOR FINISHED GRADING REFER TO DRAINAGE PLANS.
2. FOR REMOVALS, UTILITY, AND GUARDRAIL INFORMATION REFER TO ROADWAY PLANS.
3. FOR ROADWAY GEOMETRICS, REFER TO ROADWAY PLANS.
4. GEOTECHNICAL INFORMATION AND RECOMMENDATIONS CAN BE FOUND IN THE PRELIMINARY DRAFT GEOTECHNICAL AND PAVEMENT INVESTIGATION REPORT, WAGONWHEEL GAP ROAD, BOULDER COUNTY, COLORADO, DATED MARCH 3, 2016
5. GROUND NAILS ARE GENERICALLY SHOWN. SEE GROUND NAIL LAYOUT FOR ACTUAL LOCATIONS.
6. FOR BRIDGE DETAILS, SEE BRIDGE PLANS.

60% 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

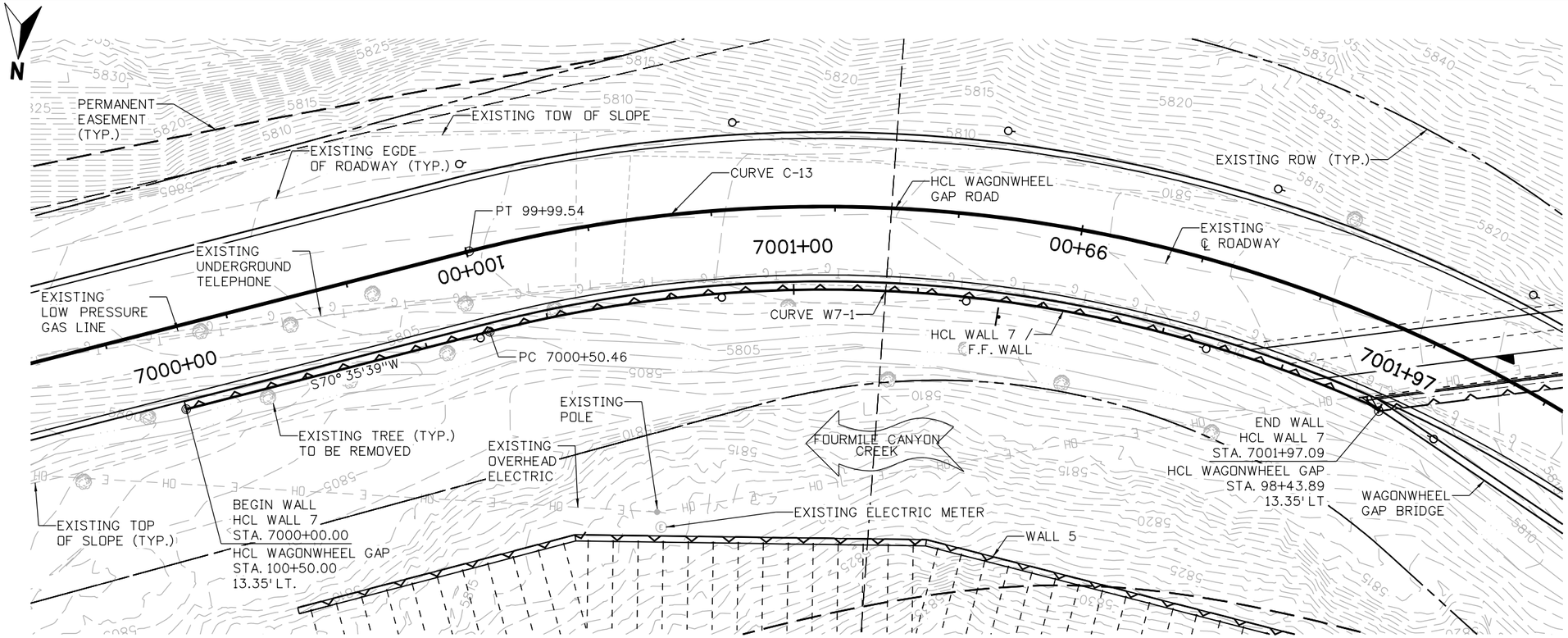
BOULDER COUNTY TRANSPORTATION DEPARTMENT
ENGINEERING DIVISION

DESIGNED:	CAD:	CHECKED:	DATE:
DLT	BMT		3/4/2016

WAGONWHEEL GAP ROAD WALLS
RETAINING WALL 6
GENERAL LAYOUT

PROJECT NO: 4043.SEPT12C34 | SHEET NO: 98

brett.terrell 3:29:12 PM pw:\\DCPWAPP1bkr.mbakercorp.com:pwprod\Documents\Projects\Lakewood_Office\Boulder_County_Emergency_Transportation\T04\08_Sheet_Files\06_Structures\DGN\Walls\138200_WALL_09.dgn



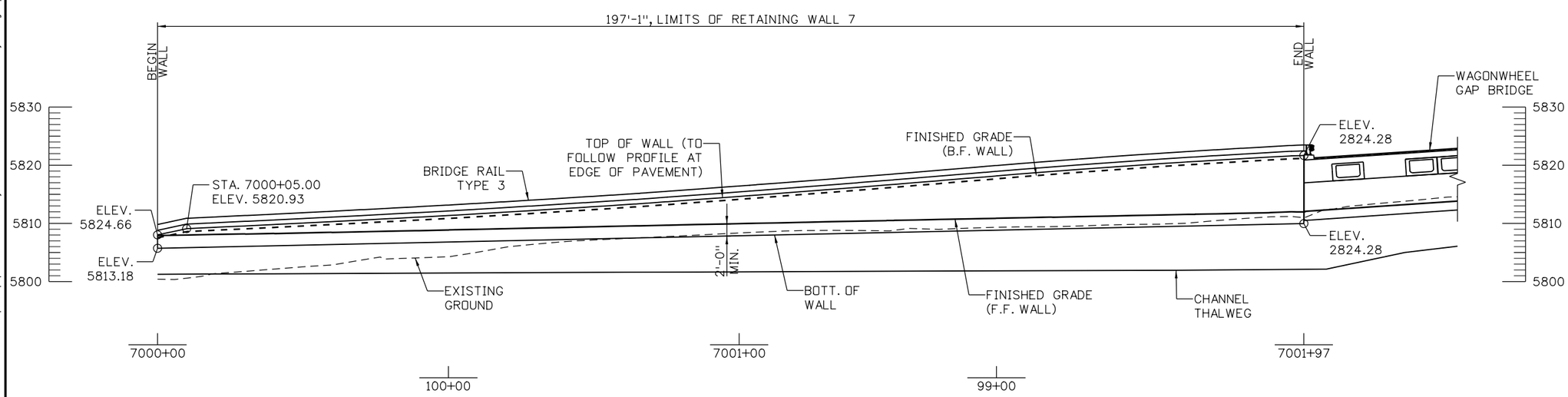
PLAN

NOTES:

1. FOR FINISHED GRADING REFER TO DRAINAGE PLANS.
2. FOR REMOVALS, UTILITY, AND GUARDRAIL INFORMATION REFER TO ROADWAY PLANS.
3. FOR ROADWAY GEOMETRICS, REFER TO ROADWAY PLANS.
4. GEOTECHNICAL INFORMATION AND RECOMMENDATIONS CAN BE FOUND IN THE PRELIMINARY DRAFT GEOTECHNICAL AND PAVEMENT INVESTIGATION REPORT, WAGONWHEEL GAP ROAD, BOULDER COUNTY, COLORADO, DATED MARCH 3, 2016
5. GROUND NAILS ARE GENERICALLY SHOWN. SEE GROUND NAIL LAYOUT FOR ACTUAL LOCATIONS.
6. FOR BRIDGE DETAILS, SEE BRIDGE PLANS.

CURVE W7-1 DATA

Δ = 38° 36'18" RT
R = 217.65'
L = 146.65'
T = 76.23'
PI 7001+26.69
N 266710.14
E 55334.17



ELEVATION
TAKEN AT HCL WALL 7 / F.F. WALL

60% SET

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811
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REVISIONS:	NO.	DATE	REVISION DESCRIPTION:

Boulder County
Michael Baker INTERNATIONAL

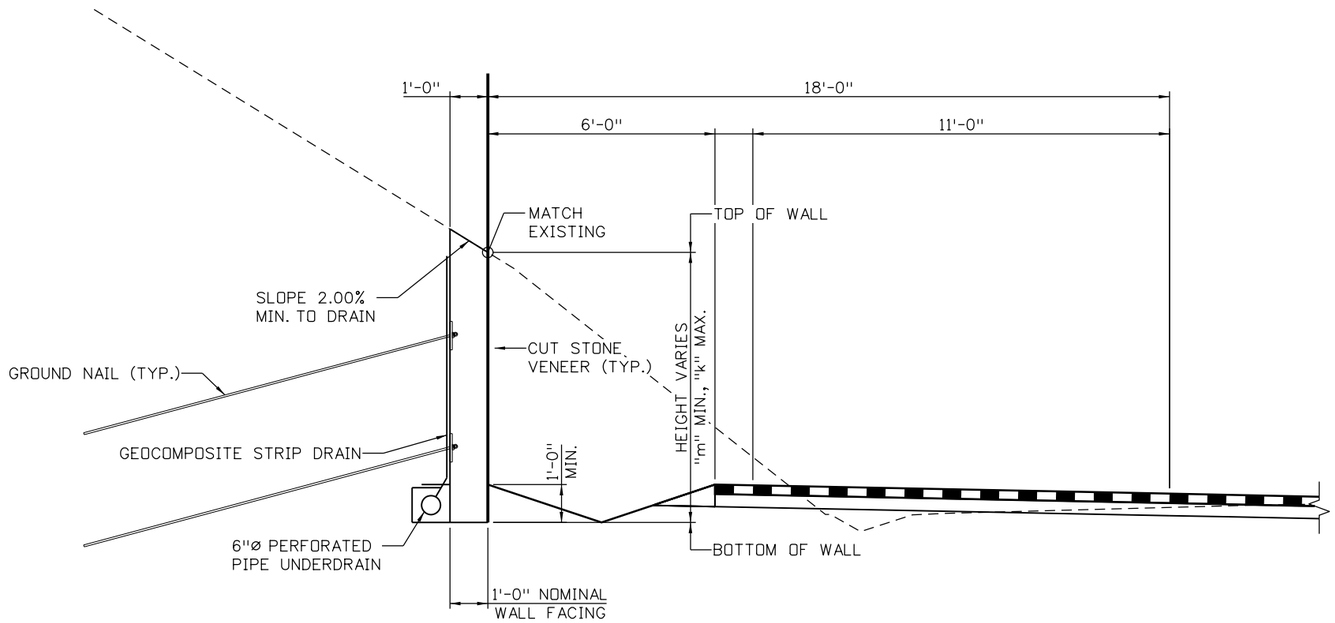
BOULDER COUNTY TRANSPORTATION DEPARTMENT
ENGINEERING DIVISION

DESIGNED:	CAD:	CHECKED:	DATE:
DLT	BMT		3/4/2016

WAGONWHEEL GAP ROAD WALLS
RETAINING WALL 7
GENERAL LAYOUT

PROJECT NO: 4043.SEPT12C34 | SHEET NO: 99

brett.terrell 3:29:29 PM pw:\\DCPWAPP1.bkr.mbakercorp.com:pwprod\Documents\Projects\Lakewood_Office\Boulder_County_Emergency_Transportation\T04\08_Sheet_Files\06_Structures\DGN\Walls\138200_WALL_10.dgn



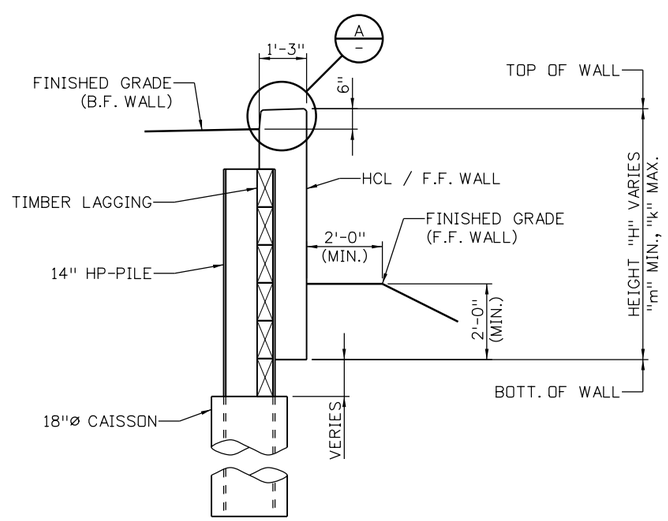
TYPICAL SECTION

LOOKING AHEAD STATION
WALL 1 SHOWN, WALLS 2 AND 3 SIMILAR

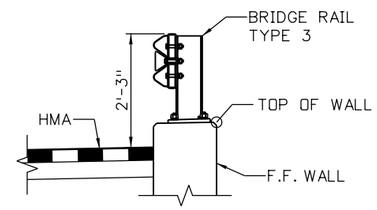
NOTES:

1. FOR FINISHED GRADING REFER TO DRAINAGE PLANS.
2. FOR ARCHITECTURAL DETAILS, REFER TO CUT STONE VENEER DETAILS SHEET.
3. THE CONTRACTOR SHALL NOT DISTURB THE EXISTING GROUND CONDITIONS EXCEPT AS NECESSARY TO INSTALL THE WALL FOUNDATION AND COMPLETE FINISHED GRADING.
4. GEOTECHNICAL INFORMATION AND RECOMMENDATIONS CAN BE FOUND IN THE DRAFT GEOTECHNICAL INVESTIGATION REPORT, 1602 GOLD RUN TO SALINA JUNCTION, BOULDER COUNTY, COLORADO, DATED JANUARY 13, 2016.
5. GROUND NAILS ARE GENERICALLY SHOWN.

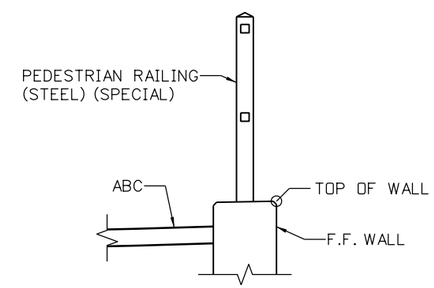
WALL LAYOUT TABLE		
WALL	"m"	"k"
1	6'-0"	10'-6"
2	4'-6"	6'-6"
3	2'-8"	6'-6"
4	2'-6"	10'-0"
5	6'-5/8"	22'-11 1/2"
6	2'-1 1/8"	2'-1 1/8"
7	2'-3 7/8"	11'-8 5/8"



TYPICAL SECTION



ALONG ROADWAY



ALONG DRIVEWAY

DETAIL A

60% SET

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

BOULDER COUNTY TRANSPORTATION DEPARTMENT
ENGINEERING DIVISION
Michael Baker INTERNATIONAL

DESIGNED:	CAD:	CHECKED:	DATE:
DLT	BMT		3/4/2016

WAGONWHEEL GAP ROAD WALLS
TYPICAL SECTIONS

PROJECT NO: 4043.SEPT12C34 SHEET NO: 100

brett.terrell 3:29:47 PM pw:\\DCPWAPP1.bkr.mbakercorp.com:pwprod\Documents\Projects\Lakewood_Office\Boulder_County_Emergency_Transportation\T04\08_Sheet_Files\06_Structures\DGN\Walls\138200_WALL_11.dgn