

BOULDER COUNTY TRANSPORTATION DEPARTMENT

ENGINEERING DIVISION

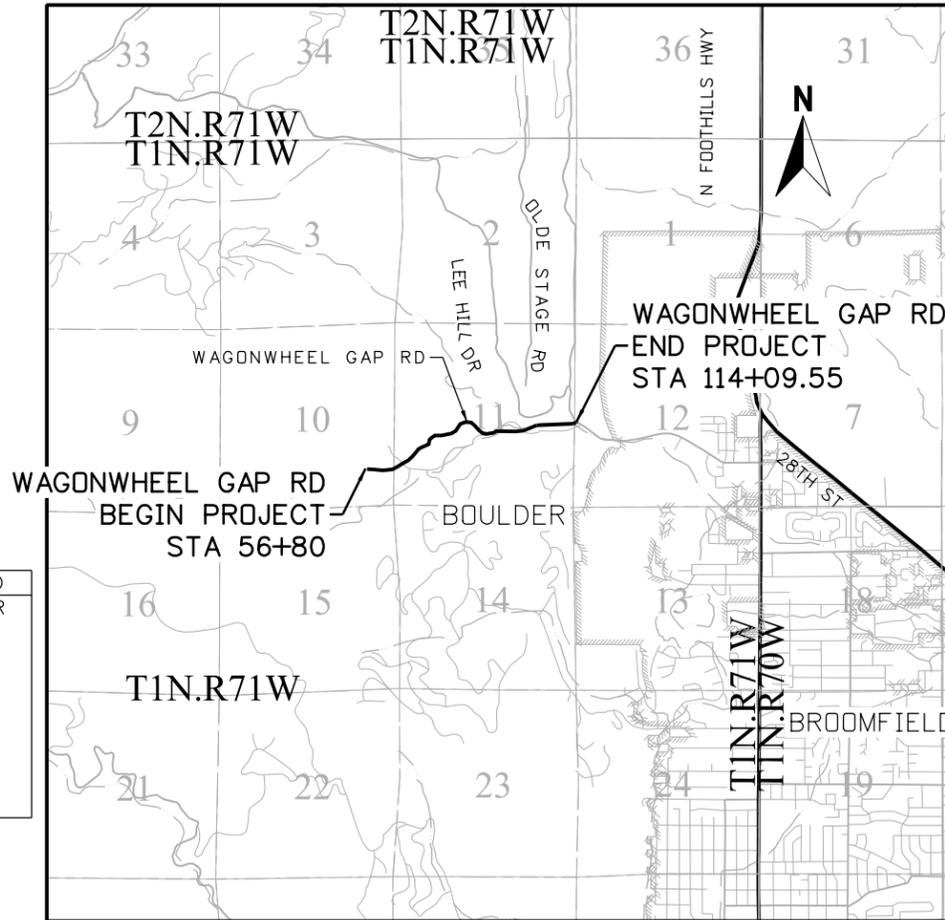
60% PLANS OF PROPOSED WAGONWHEEL GAP ROAD BOULDER COUNTY

BOULDER COUNTY PROJECT NO. 4043.SEPT12C34

TABULATION OF LENGTH & DESIGN DATA

STATION	FEET	
	ROADWAY	STRUCTURE
BEGIN WAGONWHEEL GAP RD STA 56+80.00 END WAGONWHEEL GAP RD STA 114+09.55	5,574.36	155.19
BEGIN PINTO DR STA 0+00.00 END PINTO DR STA 8+00.00	788.00	
BEGIN BOW MOUNTAIN RD STA 20+00.00 END BOW MOUNTAIN RD STA 21+83.08	126.08	45.00
TOTAL	6,488.44	200.19
SUMMARY OF PROJECT LENGTH	FEET	MILES
ROADWAY (NET LENGTH)	6,488.44	1.23
MAJOR STRUCTURE (NET LENGTH)	45.00	0.01
PROJECT GROSS LENGTH	6,688.63	1.24

DESIGN DATA	WAGONWHEEL GAP RD	PINTO DR	BOW MOUNTAIN RD
ROADWAY CLASSIFICATION	LOCAL/COLLECTOR	LOCAL/COLLECTOR	LOCAL/COLLECTOR
EXISTING SURFACE TYPE	PAVED	ABC	PAVED
MINIMUM RADIUS OF CURVE	231'	100'	90'
MAXIMUM GRADE	8.00%	6.54%	13.43%
MINIMUM S.S.D. HORIZONTAL	155'	115'	80'
MINIMUM S.S.D. VERTICAL	89'	122'	72'
DESIGN SPEED	30 MPH	20 MPH	10 MPH
CLEAR ZONE DISTANCE	6'	6'	6'
MAXIMUM SUPERELEVATION (emax)	6%	6%	6%



PROJECT LOCATION MAP

LATITUDE: 40.06
LONGITUDE: 105.30



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**ACCEPTED FOR CONSTRUCTION
BY BOULDER COUNTY
TRANSPORTATION DEPARTMENT**

NAME _____ DATE _____

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	NO.	DATE	REVISION DESCRIPTION:	 BOULDER COUNTY TRANSPORTATION DEPARTMENT ENGINEERING DIVISION Michael Baker INTERNATIONAL	DESIGNED: BMC	CAD: EAV	CHECKED: SLS	DATE: 03/04/16	WAGONWHEEL GAP ROAD TITLE SHEET
						PROJECT NO: 4043.SEPT12C34	SHEET NO: 1			

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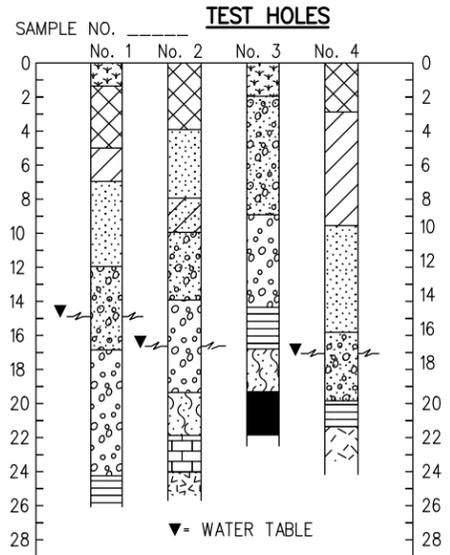
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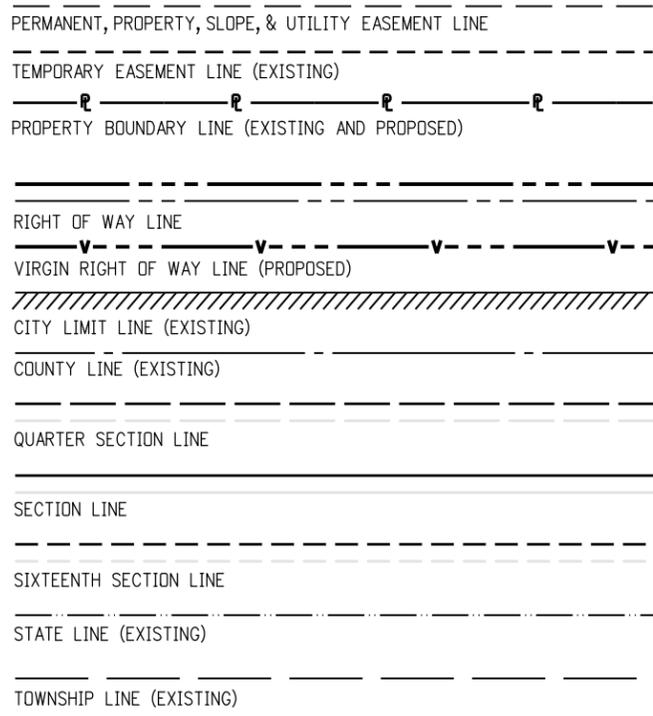
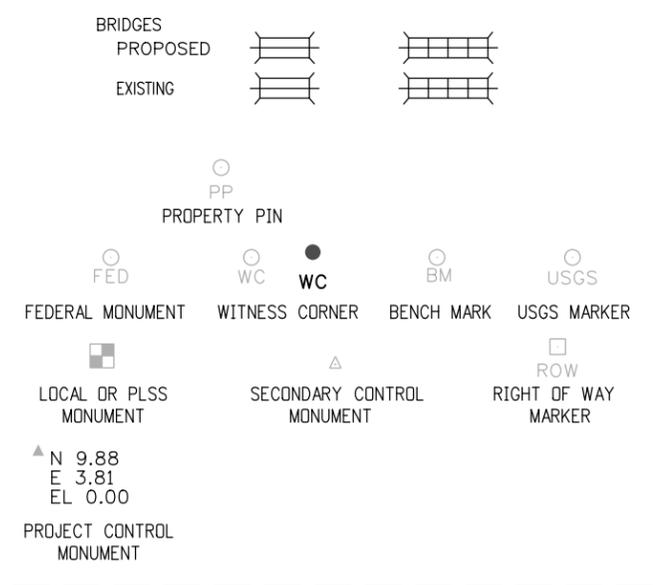
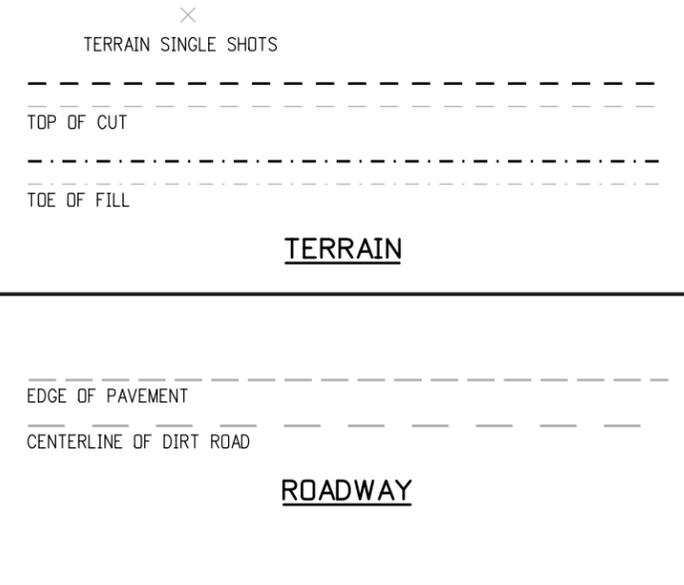
COLORADO
DEPARTMENT OF TRANSPORTATION
M&S STANDARDS PLANS LIST
 July 04, 2012
 Revised on December 29, 2015

ALL OF THE M&S STANDARD PLANS, AS SUPPLEMENTED AND REVISED, APPLY TO THIS PROJECT WHEN USED BY DESIGNATED PAY ITEM OR SUBSIDIARY ITEM.

- LEGEND**
- TOPSOIL
 - OVERBURDEN
 - CLAY
 - SILT
 - SAND
 - GRAVEL
 - SHALE
 - LIMESTONE
 - SANDSTONE
 - SOLID ROCK (IGNEOUS)
 - SOLID ROCK (METAMORPHIC)
 - COAL
 - SANDY CLAY
- COMPOSITE MATERIALS ARE REPRESENTED BY COMBINATIONS OF THE ABOVE SYMBOLS, SUCH AS:

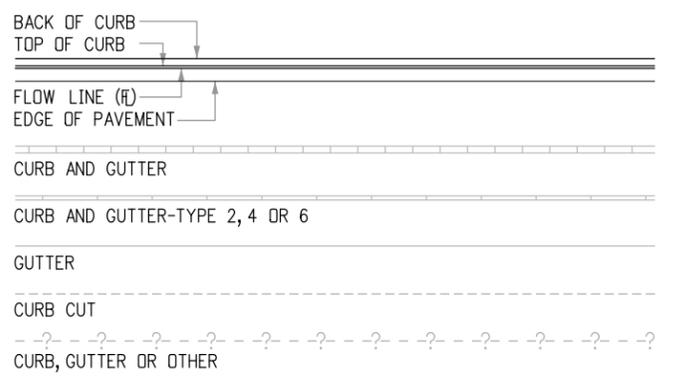


TYPICAL BORING LOG

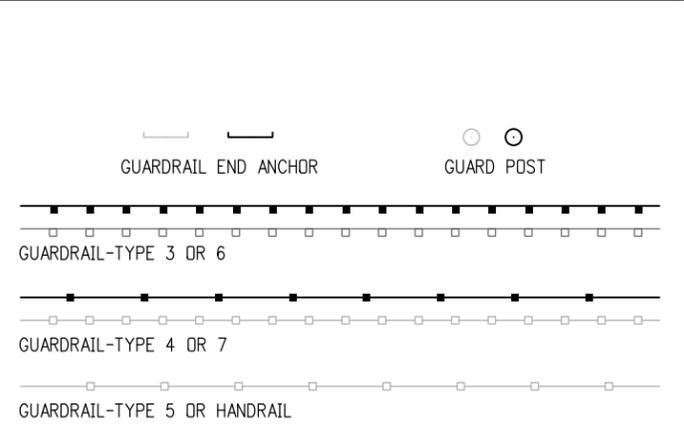


SURVEY/ROW

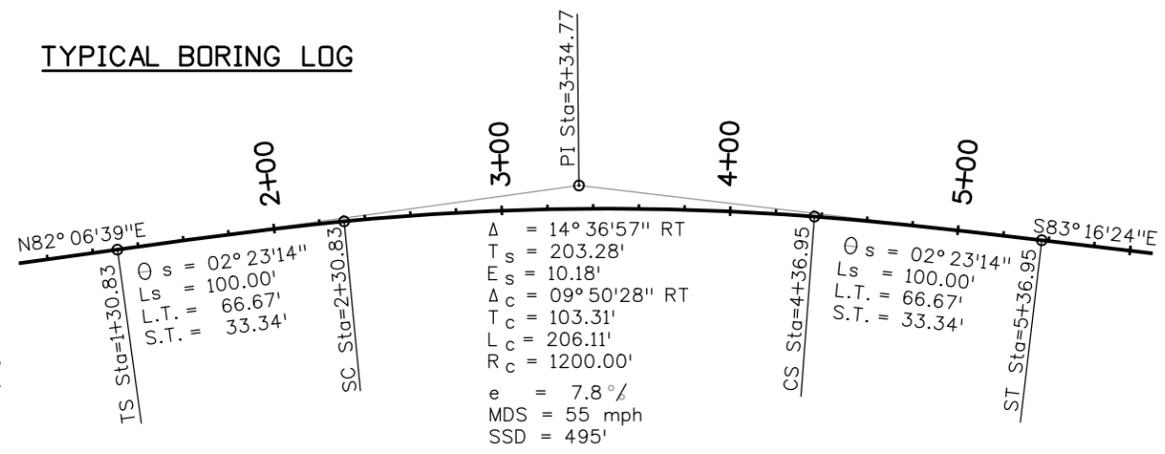
- GENERAL NOTES**
- EXISTING FEATURES SHOWN AS SCREENED WEIGHT (LIGHT GRAY SCALE), EXCEPT AS NOTED WITH THE WORD (EXISTING). PROPOSED OR NEW FEATURES SHOWN AS FULL WEIGHT WITHOUT SCREENING, EXCEPT AS NOTED WITH THE WORD (PROPOSED).
 - THESE SYMBOLS ARE INTENDED TO EXPLAIN THE VARIOUS TOPOGRAPHIC FEATURES INVOLVED ON THE DESIGN PLAN SHEETS WHICH ARE PREPARED AT VARIOUS SCALES. NOTES ARE ADDED WHERE NECESSARY TO CLARIFY THE SYMBOL. A LEGEND IS PROVIDED IN THE PLANS FOR SYMBOLS NOT SHOWN ON THE STANDARD SYMBOLS SHEETS.
 - GUARDRAIL, CURB AND GUTTER, ETC., ARE REPRESENTED BY A SYMBOL WITH TYPE GIVEN BY NOTE.



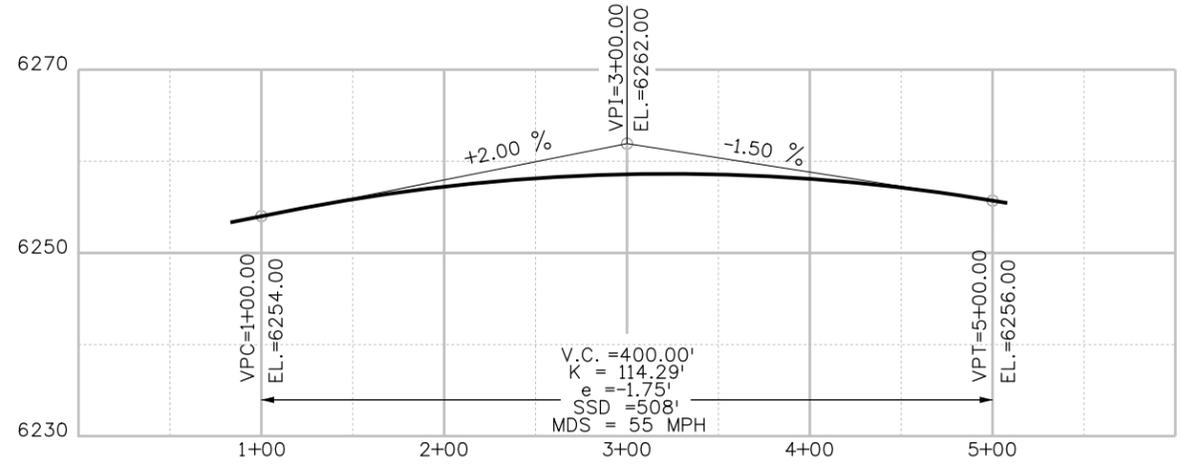
CURB AND GUTTER



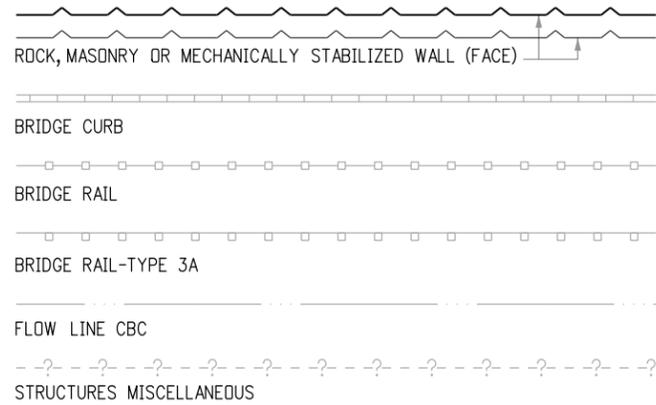
GUARDRAIL



TYPICAL HORIZONTAL CURVE



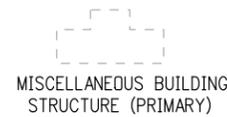
TYPICAL VERTICAL CURVE



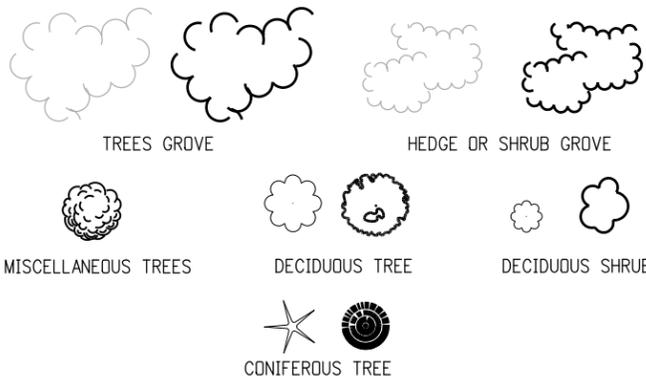
STRUCTURE



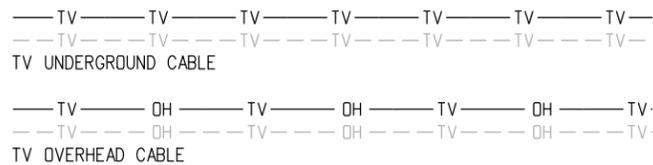
LIGHTING



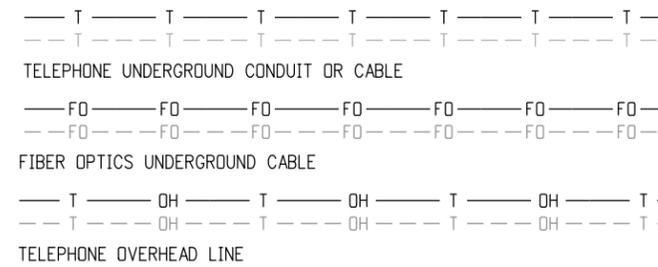
BUILDING STRUCTURES



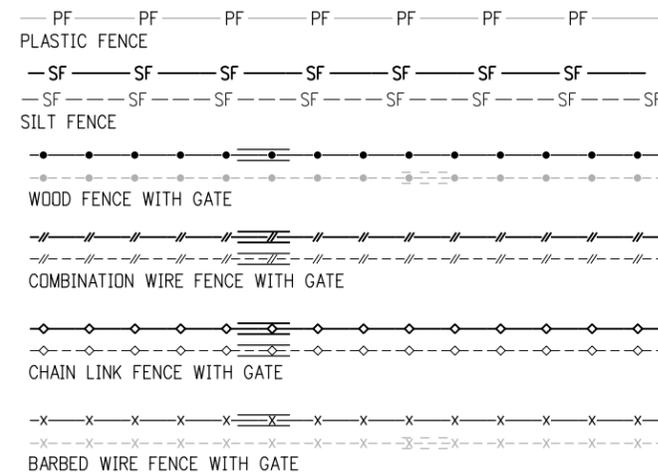
LANDSCAPING



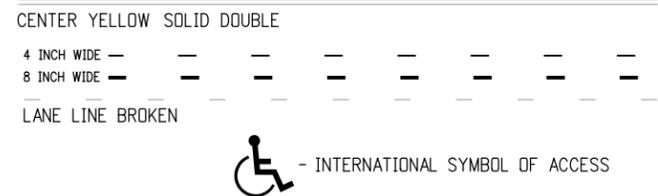
TELEVISION



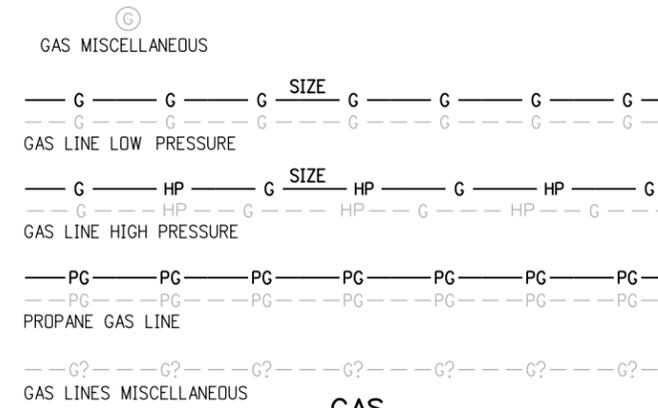
TELEPHONE



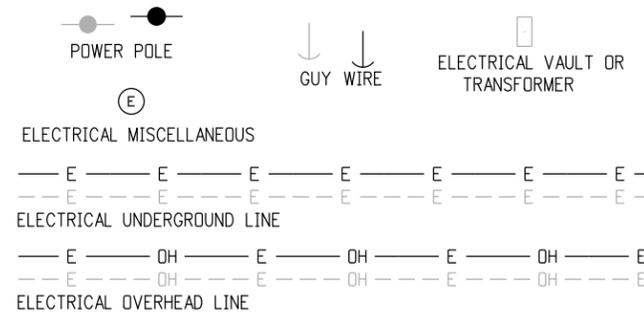
FENCE



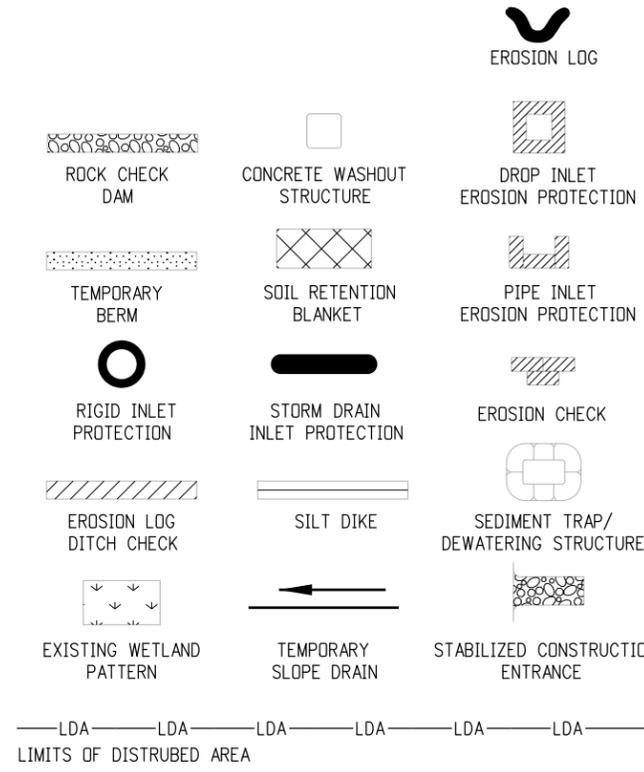
TRAFFIC STRIPING



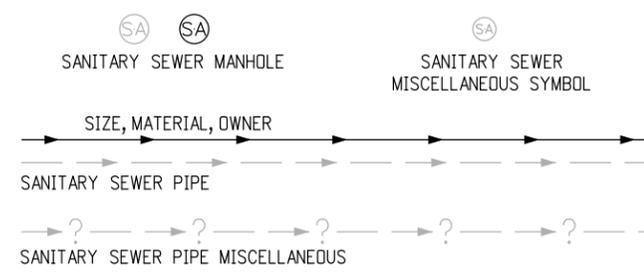
GAS



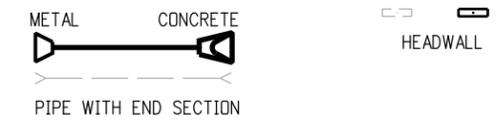
ELECTRICAL



ENVIRONMENTAL



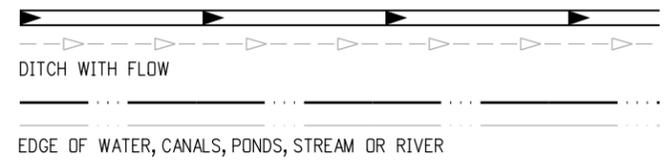
SANITARY SEWER



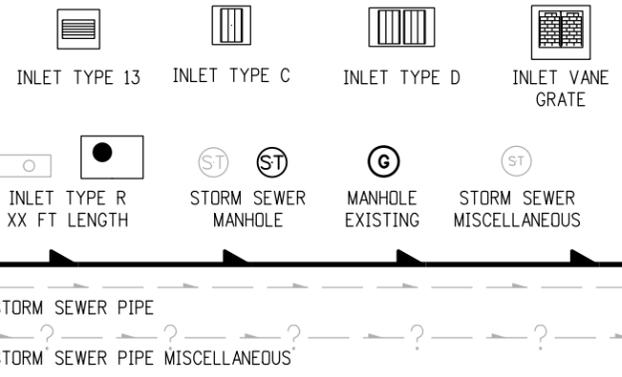
PIPES



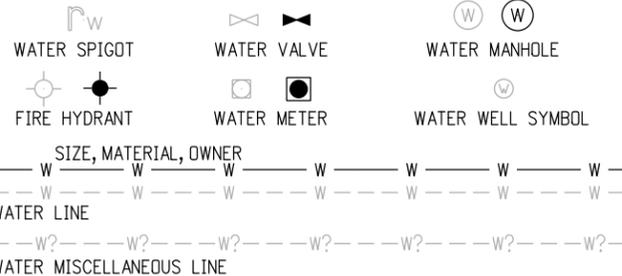
TRAFFIC CONTROL



DITCHES AND WATERWAY



STORM SEWER



WATER

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
Michael Baker INTERNATIONAL

DESIGNED: CAD: CHECKED: DATE:

GENERAL NOTES:

- PROJECT BENCHMARK: ALL ELEVATIONS SHOWN ON THESE PLANS ARE REFERENCED TO THE PROJECT BENCHMARKS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SAFEGUARDING THE PROJECT BENCHMARKS AND OTHER SURVEY MONUMENTS. DAMAGED MONUMENTS SHALL BE REESTABLISHED AND REPLACED BY THE LICENSED LAND SURVEYOR AT THE EXPENSE OF THE PARTY RESPONSIBLE FOR THE DAMAGE.
- GEOTECHNICAL INFORMATION FOR THIS PROJECT IS BASED UPON THE GEOTECHNICAL AND PAVEMENT INVESTIGATION REPORT FOR TASK ORDER 4 WAGONWHEEL GAP ROAD, BY YEH AND ASSOCIATES, DATED MARCH 3, 2016. THE CONTRACTOR SHALL PERFORM WORK IN ACCORDANCE WITH THE GEOTECHNICAL RECOMMENDATIONS.
- IN THE EVENT THE CONTRACTOR ALLOWS, AUTHORIZES, APPROVES OR CONSTRUCTS ITEMS THAT DIFFER FROM THE APPROVED PLANS, SPECIFICATIONS OR OTHER CONTRACT DOCUMENTS, WITHOUT WRITTEN APPROVAL BY THE ENGINEER, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY LIABILITY ARISING FROM SUCH CHANGES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SAFEGUARDS, SAFETY DEVICES, PROTECTIVE EQUIPMENT, AND ANY OTHER NEEDED ACTION TO PROTECT THE LIFE, HEALTH AND SAFETY OF THE PUBLIC AND TO PROTECT PROPERTY IN CONNECTION WITH THE PERFORMANCE OF WORK COVERED BY THE CONTRACTOR.
- THE CONTRACTOR SHALL CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO FOR LOCATION OF UNDERGROUND GAS, ELECTRIC AND COMMUNICATION UTILITIES AT LEAST 48 HOURS PRIOR TO CONSTRUCTION (1-800-922-1987) OR 811. THE CONTRACTOR SHALL NOTIFY OTHER APPLICABLE UTILITY COMPANIES AS WELL TO OBTAIN FIELD LOCATES OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
- LOCATIONS OF UNDERGROUND UTILITIES AS SHOWN ON THE PLANS WERE TAKEN FROM THE RECORDS OF THE CONTROLLING AGENCIES OR FROM AGENCY MARKINGS IN THE FIELD. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THEIR COMPLETENESS OR ACCURACY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE EXISTENCE AND/OR LOCATION OF ALL UNDERGROUND UTILITIES AND PARTICIPATE IN THE RESOLUTION OF ANY CONFLICTS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE JOB SITE CONDITIONS THROUGHOUT THE DURATION OF CONSTRUCTION, INCLUDING SAFETY OF ALL PERSONS AND PROTECTION OF PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED ONLY TO WORKING HOURS. THE CONTRACTOR SHALL DEFEND INDEMNIFY AND HOLD THE OWNER, THE ENGINEER AND THE GOVERNING JURISDICTION HARMLESS FOR ANY AND ALL LIABILITY, IN CONNECTION WITH THE PERFORMANCE OF WORK, EXCEPT FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER, THE ENGINEER OR THE GOVERNING JURISDICTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING NEARBY PUBLIC OR PRIVATE STREETS OF MUD AND DEBRIS, DUE TO CONSTRUCTION ACTIVITIES, ON A DAILY BASIS OR AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF OTHER WORK.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE COLORADO DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION DATED 2011; AND AS SUBSEQUENTLY REVISED; THE CDOT STANDARD PLANS M&S STANDARDS DATED JULY, 2012 AND REVISED; AND THE BOULDER COUNTY MULTI-MODAL TRANSPORTATION STANDARDS; AND THE BOULDER COUNTY STORM DRAINAGE CRITERIA MANUAL.
- THE CONTRACTOR SHALL HAVE: ONE (1) SIGNED COPY OF THE PLANS ACCEPTED BY THE BOULDER COUNTY ENGINEER, ONE (1) COPY OF THE CONSTRUCTION SPECIFICATIONS FOR THE PROJECT, ONE (1) COPY OF THE COLORADO DEPARTMENT OF TRANSPORTATION STANDARD PLANS (M&S STANDARDS), AND ONE (1) COPY OF THE COLORADO DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AT THE JOB SITE AT ALL TIMES.
- CONTRACTORS NEED TO USE THE DESIGN PLANS IN CONJUNCTION WITH THE DIGITAL TERRAIN MODEL (DTM). IN THE EVENT OF A CONFLICT, DESIGN PLANS SHALL ALWAYS TRUMP DATA FROM THE DTM.
- CONTRACTOR TO CONTACT ENGINEER IN THE EVENT OF A DISCREPANCY BETWEEN CRITERIA PRIOR TO CONSTRUCTION.

GENERAL NOTES CONT'D:

- FOR PRELIMINARY PLAN QUANTITIES OF MATERIALS, THE FOLLOWING RATES OF APPLICATION WERE USED:
HOT MIX ASPHALT.....@ 110 LBS./SQ.YD./INCH
AGGREGATE BASE COURSE CLASS 6.....@ 133 LBS./CU.FT.
TACK COAT DILUTED EMULSIFIED ASPHALT@ 0.10 GALS/SQ.YD. (DILUTED)
- UNLESS OTHERWISE DIRECTED BY THE ENGINEER, THE CONTRACTOR SHALL CONTAIN ALL WORK WITHIN THE RIGHT OF WAY AND TEMPORARY AND PERMANENT EASEMENTS AS SHOWN ON THE PLANS AND CROSS SECTIONS (ROW SHOWN ON PLANS ARE BASED OFF SURVEYED INFORMATION AND SHOULD BE VERIFIED IN THE FIELD). ANY DISTURBANCE BEYOND THESE LIMITS SHALL BE RESTORED TO ORIGINAL CONDITION BY THE CONTRACTOR AT CONTRACTOR'S OWN EXPENSE. CONSTRUCTION ACTIVITIES IN ADDITION TO NORMAL CONSTRUCTION SHALL INCLUDE THE PARKING OF VEHICLES OR EQUIPMENT, DISPOSAL OF LITTER, AND ANY OTHER ACTION WHICH WOULD ALTER EXISTING CONDITIONS.
- THE DECISION TO BRACE, SHORE OR SHEET PILE FOR STRUCTURE EXCAVATION SHALL BE ENTIRELY THE CONTRACTOR'S RESPONSIBILITY. HOWEVER, IF THE ENGINEER IS OF THE OPINION THAT AT ANY POINT THE TRENCH WALLS ARE NOT PROPERLY SUPPORTED; THE ENGINEER MAY ORDER THE PLACEMENT OF ADDITIONAL SUPPORTS BY AND AT THE EXPENSE OF THE CONTRACTOR. COMPLIANCE WITH SUCH ORDER SHALL NOT RELIEVE OR RELEASE THE CONTRACTOR FROM RESPONSIBILITIES FOR THE SAFETY OF THE WORK. ALL WORK SHALL BE IN ACCORDANCE WITH ALL STATE AND FEDERAL OSHA REGULATIONS. THE CONTRACTOR SHALL TAKE NOTE THAT EXISTING UTILITIES NEAR THE PROPOSED EXCAVATION SHALL BE PROTECTED DURING CONSTRUCTION. TEMPORARY SHORING IS RECOMMENDED TO LIMIT TRENCH WIDTH AND POTENTIAL DAMAGE TO EXISTING UTILITIES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCEPTANCE AND CONTROL OF ALL SURFACE AND SUBSURFACE DRAINAGE AND GROUNDWATER ENTERING THE PROJECT AREA. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING DEWATERING IF NEEDED AT NO ADDITIONAL COSTS TO THE PROJECT. DEWATERING METHODS SHALL BE APPROVED BY THE ENGINEER. THE CONTRACTOR SHALL OBTAIN A CONSTRUCTION DEWATERING PERMIT FOR ALL CONSTRUCTION ACTIVITIES.
- THE CONTRACTOR SHALL PROTECT EXISTING UTILITIES BY USING EVERY REASONABLE MEANS, INCLUDING FIELD LOCATION OF THE UTILITY. REPAIR OF DAMAGE TO THE EXISTING UTILITIES DURING CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL DOCUMENT THE CONDITION OF EXISTING UTILITIES (VISIBLE FACILITIES) WITH THE ENGINEER AND UTILITY REPRESENTATIVES PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES.
- ALL EXISTING UTILITY FACILITIES TO REMAIN IN PLACE WITHIN THE CONSTRUCTION LIMITS SHALL BE PROTECTED BY THE CONTRACTOR.
- THE SULFATE EXPOSURE CLASS FOR THIS PROJECT IS CLASS 0.
- THE COUNTY WILL ACQUIRE THE FLOODPLAIN DEVELOPMENT PERMIT. THE CONTRACTOR SHALL OBTAIN, AT HIS EXPENSE, ALL OTHER PERMITS APPLICABLE REQUIRED TO PERFORM THE PROPOSED WORK PRIOR TO CONSTRUCTION.
- STATIONING LATH WILL BE REMOVED AS DIRECTED AND AT NO ADDITIONAL COST TO THE PROJECT.
- IT IS ESTIMATED THAT 1,536 GALLONS OF EMULSIFIED ASPHALT WILL BE REQUIRED. THIS IS NOT PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF THE WORK.
- IT IS ESTIMATED THAT 12 HOURS OF BLADING WILL BE REQUIRED FOR THIS PROJECT.
- IT IS ANTICIPATED THAT PUBLIC INFORMATION SERVICES WILL BE REQUIRED FOR THIS PROJECT AND WILL BE PROVIDED BY THE COUNTY.
- IT IS ANTICIPATED THAT CONSTRUCTION SURVEYING WILL BE REQUIRED FOR THIS PROJECT.
- IT IS ANTICIPATED THAT MOBILIZATION WILL BE REQUIRED FOR THIS PROJECT.
- IT IS ESTIMATED THAT 1 SANITARY FACILITY WILL BE REQUIRED FOR THIS PROJECT.
- IT IS ESTIMATED THAT 12 HOURS OF PROOF ROLLING WILL BE REQUIRED AS DIRECTED BY THE ENGINEER.
- IT IS ESTIMATED THAT 10 HOURS OF WILDLIFE BIOLOGIST WILL BE REQUIRED FOR THE PROJECT.
- IT IS ESTIMATED THAT 20 HOURS OF REMOVAL OF NESTS WILL BE REQUIRED FOR THE PROJECT.

GENERAL NOTES CONT'D:

- IT IS ESTIMATED THAT 6.00 ACRES OF CLEARING AND GRUBBING WILL BE REQUIRED FOR THIS PROJECT
- IT IS ESTIMATED THAT 16 HOURS OF HERBICIDE APPLICATION WILL BE REQUIRED FOR THIS PROJECT.
- THE INTENT OF THIS CONTRACT IS TO RESTORE THE AREA AFFECTED BY THE 2013 FLOOD TO PRE- FLOOD CONDITIONS AND AS MODIFIED BY THESE PLANS
- THE CONTRACTOR SHALL REMOVE DEBRIS AS NEEDED FOR CONSTRUCTION OF THE PROJECT. ALL WORK ASSOCIATED WITH THIS CONSTRUCTION ACTIVITY WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE CLEARING AND GRUBBING IN ITEM 201.
- THE CONTRACTOR SHALL TAKE PRECAUTIONARY MEASURES TO PROTECT THE EXISTING VEGETATION INSIDE AND OUTSIDE THE PROJECT LIMITS. THE CONTRACTOR SHALL FENCE ALL VEGETATION TO BE UNDISTURBED PRIOR TO COMMENCING WORK. ANY COST INCURRED FOR DAMAGE OF SUCH MATERIAL DUE TO CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- THE CONTRACTOR MUST KEEP ALL EQUIPMENT OPERATION A MINIMUM OF 10 FEET FROM EXISTING OVERHEAD ELECTRIC LINES. IF THIS IS NOT FEASIBLE, OR CONDITIONS WARRANT ADDITIONAL PROTECTION OR POLE STABILIZATION, THE CONTRACTOR MUST CONTACT THE UTILITY OWNER TO ARRANGE PROTECTIVE COVERING AND POLE STABILIZATION. A MINIMUM OF 48 HOURS NOTICE IS REQUIRED.
- IT IS ESTIMATED THAT 2 FIELD OFFICES WILL BE REQUIRED FOR THIS PROJECT
- CONTRACTOR SHALL ATTEND A PRE-CONSTRUCTION MEETING SCHEDULED BY BOULDER COUNTY PRIOR TO START OF CONSTRUCTION. THOSE IN ATTENDANCE SHALL INCLUDE ENGINEER, CONTRACTOR AND ANY OTHER AFFECTED AGENCIES. CONSTRUCTION PLANS WILL BE DISTRIBUTED AT THE PRE-CONSTRUCTION MEETING.
- ALL GUARDRAIL END ANCHORAGES SHALL BE FLEAT-350, AS MANUFACTURED BY ROAD SYSTEMS; OR X-LITE, AS MANUFACTURED BY BARRIER SYSTEMS, INC. THE SLOTTED RAIL TERMINAL (SRT-35), AS MANUFACTURED BY TRINITY INDUSTRIES, INC. WILL NOT BE ALLOWED.

PAVEMENT CONSTRUCTION NOTES:

- DILUTED EMULSIFIED ASPHALT FOR THE TACK COAT SHALL CONSIST OF 1 PART WATER AND 1 PART EMULSIFIED ASPHALT. RATES OF APPLICATION SHALL BE DETERMINED BY THE ENGINEER AT THE TIME OF APPLICATION. TACK COAT SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE WORK.
- WATER SHALL BE USED AS A DUST PALLIATIVE WHERE REQUIRED. LOCATIONS SHALL BE AS DIRECTED BY THE ENGINEER. THIS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF CONSTRUCTION.
- ANY LAYER OF HOT MIX ASPHALT THAT IS TO HAVE A SUCCEEDING LAYER PLACED THEREON SHALL BE COMPLETED FULL WIDTH BEFORE SUCCEEDING LAYER IS PLACED.
- ASPHALT JOINTS SHALL FALL ON LANE LINES, SHOULDERS LINES OR MEDIAN LINES, EXCEPT WHERE STATED IN THE PLANS.
- PRIOR TO PLACING HOT MIX ASPHALT, THE PAVED SURFACE SHALL BE SWEEPED AND CLEANED. THIS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF THE HOT MIX ASPHALT PAVEMENT ITEM.
- THE CONTRACTOR MAY USE AN EXPOSED LONGITUDINAL JOINT FOR A MAXIMUM OF 1 DAY. THE JOINT SHALL CONSIST OF A VERTICAL FACE 1 INCH DEEP, AND AT THE BOTTOM OF THE VERTICAL FACE, A 3:1 SLOPE TO EXISTING PAVEMENT (OR SUBGRADE). THE MAXIMUM DEPTH OF THE 3:1 SLOPE SHALL BE 2 INCHES. AT THE END OF THE FOLLOWING DAY, PLACEMENT OF THE HMA ON THE ADJACENT LANE IS REQUIRED.
- THE FOLLOWING SHALL BE FURNISHED WITH EACH BITUMINOUS PAVER:
A. A SKI TYPE DEVICE AT LEAST 30 FEET IN LENGTH
B. SHORT SKI OR SHOE
C. 1500 FEET OF CONTROL LINE AND STAKES

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	NO.	DATE	REVISION DESCRIPTION:	 BOULDER COUNTY TRANSPORTATION DEPARTMENT ENGINEERING DIVISION Michael Baker INTERNATIONAL	DESIGNED: JLW	CAD: JLW	CHECKED: SLS	DATE:	WAGON WHEEL GAP ROAD GENERAL NOTES (1 OF 2)
						PROJECT NO: 4043.SEPT12C34	SHEET NO: 5			

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EARTHWORK/GRADING:

1. DEPTH OF MOISTURE-DENSITY CONTROL FOR THIS PROJECT SHALL BE AS FOLLOWS:
BASES OF CUTS AND FILLS - 1 FOOT
FULL DEPTH OF ALL EMBANKMENTS ON THIS PROJECT.
2. EXCAVATION REQUIRED FOR COMPACTION OF BASES OF CUTS AND FILLS WILL BE CONSIDERED AS SUBSIDIARY TO THAT OPERATION AND WILL NOT BE PAID FOR SEPARATELY.
3. GRADING WILL BE INSPECTED BY AN OWNER'S REPRESENTATIVE DURING ALL EXCAVATIONS TO EVALUATE CHANGING CONDITIONS.
4. TYPE OF COMPACTION FOR THIS PROJECT WILL BE AASHTO T-180. WATER FOR COMPACTION WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE WORK.

DRAINAGE NOTES:

1. REFERENCE POINTS FOR INSTALLATION OF DRAINAGE FEATURES ARE DETAILED ON THE DRAINAGE DETAILS SHEET.
2. THE DEFINITION OF PIPE LENGTHS CALLED OUT IN THE DRAINAGE PLANS ARE DETAILED ON THE DRAINAGE DETAILS SHEET.
3. PIPE MATERIAL WILL BE REINFORCED CONCRETE PIPE (RCP) UNLESS OTHERWISE NOTED ON THE PLANS. STRENGTH CLASS OF ALL RCP SHALL BE IN ACCORDANCE WITH CDDT M-603-2 AND SECTION 706.02 OF THE STANDARD SPECIFICATIONS.
4. THE CONTRACTOR IS REQUIRED TO KEEP EXISTING CULVERTS FUNCTIONAL AND MAINTAIN PROPER STORMWATER CONVEYANCE UNTIL PROPOSED DRAINAGE FACILITIES ARE CONSTRUCTED AND FUNCTIONING PROPERLY. REMOVAL OR ABANDONMENT OF THE EXISTING STORM DRAIN SYSTEMS SHALL BE AT THE DISCRETION OF THE CONTRACTOR IN ACCORDANCE WITH CONSTRUCTION PHASING.
5. SIGNED AND SEALED SHOP DRAWINGS FOR ALL NON CDOT STANDARD DRAINAGE STRUCTURES ARE REQUIRED.
6. INFORMATION SHOWN REPRESENTS THE FINAL STORM DRAIN SYSTEM AND CULVERTS. PHASING OF INSTALLATION AND INSTALLATION METHODS TO ACCOMMODATE CONSTRUCTION SCHEDULES IS AT THE DISCRETION OF THE CONTRACTOR.
7. UNLESS OTHERWISE NOTED, EXISTING DRAINAGE FACILITIES SHALL REMAIN AND BE PROTECTED IN PLACE.

SIGNING AND PAVEMENT MARKING NOTES

1. ALL SIGNING AND PAVEMENT MARKINGS SHALL BE INSTALLED AS INDICATED IN THE ROADWAY SITE PLANS, THE LATEST MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND CDOT STANDARDS AND SPECIFICATIONS.
2. SIGN POSTS SHALL BE 2" X 2" X 10' (14 GAUGE) GALVANIZED PERFORATED SQUARE STEEL TUBING. SIGN POST BASES SHALL BE 2-1/4" X 21/4" (12 GAUGE, 3' IN LENGTH) GALVANIZED PERFORATED SQUARE STEEL TUBING. BASES SHALL BE INCLUDED IN THE COST FOR SIGN POSTS. TOP OF BASES SHALL BE -3" ABOVE FINISHED GRADE. THE SIGN POST SHALL BE INSTALLED 4" INTO THE BASE AND BOLTED BOTH WAYS.
3. THE LOCATION OF SIGNS IS APPROXIMATE. THE FINAL LOCATION OF THE SIGNS IS TO BE APPROVED BY THE ENGINEER AND MAINTENANCE SIGN SHOP REPRESENTATIVE PRIOR TO INSTALLATION.
4. ANY DAMAGE DONE TO THE EXISTING UTILITIES DURING THE PLACEMENT OF THE SIGNS IS THE RESPONSIBILITY OF THE CONTRACTOR.
5. THICKNESS OF ALL SIGN PANELS SHALL BE 0.100"
6. FINAL PAVEMENT STRIPING SHALL BE EPOXY PER CDOT STANDARD SPECIFICATIONS.

ENVIRONMENTAL NOTES:

1. IF AN ACTIVE NEST CONTAINING EGGS OR YOUNG BIRDS IS FOUND, ALL WORK THAT COULD RESULT IN ABANDONMENT OR DESTRUCTION OF THE NEST WILL BE AVOIDED UNTIL THE YOUNG HAVE FLEDGED OR THE NEST IS UNOCCUPIED AS DETERMINED BY A QUALIFIED BIOLOGIST. TREE TRIMMING AND/OR REMOVAL ACTIVITIES SHALL BE COMPLETED BEFORE BIRDS BEGIN TO NEST OR AFTER THE YOUNG HAVE FLEDGED. IN COLORADO, MOST NESTING AND REARING ACTIVITIES OCCUR BETWEEN APRIL 1 AND AUGUST 31, HOWEVER, SINCE SOME BIRDS NEST AS EARLY AS FEBRUARY, A NESTING BIRD SURVEY SHALL BE CONDUCTED BY A BIOLOGIST BEFORE ANY TREE TRIMMING OR REMOVAL ACTIVITIES BEGIN. THE CONTRACTOR SHALL FOLLOW THE PROVISIONS OF THE MIGRATORY BIRD TREATY ACT (MBTA) THROUGHOUT THE DURATION OF CONSTRUCTION. IF CONSTRUCTION RELATED ACTIVITIES OCCUR BETWEEN FEBRUARY 15 AND AUGUST 31 THEN A PRE-CONSTRUCTION SURVEY FOR NESTING BIRDS MUST BE COMPLETED BY A QUALIFIED BIOLOGIST. NO CONSTRUCTION ACTIVITIES WILL OCCUR WITHIN 50 FEET OF AN ACTIVE NEST UNTIL THE NEST BECOMES INACTIVE OR THE YOUNG HAVE FLEDGED. A PRE-CONSTRUCTION SURVEY FOR NESTING RAPTORS MUST BE COMPLETED WITHIN A HALF MILE BUFFER OF THE PROJECT LIMITS. IF ANY NESTING RAPTORS OCCUR WITHIN THE BUFFER AREA, THEN CPW "RECOMMENDED BUFFER ZONES AND SEASONAL RESTRICTIONS FOR COLORADO RAPTORS" GUIDELINES SHOULD BE FOLLOWED. CPW MAY REDUCE THE BUFFER REQUIREMENTS BASED ON CONDITIONS OF THE STUDY AREA AND TYPE OF WORK BEING DONE, BUT MUST BE CONSULTED FOR APPROVAL PRIOR TO CONSTRUCTION WITHIN THE RECOMMENDED BUFFER ZONE OF AN ACTIVE NEST.
2. REMOVAL OF EXISTING TREES AND VEGETATION DURING CONSTRUCTION WILL BE LIMITED. ACCESS ROUTES, STAGING AREAS, ETC. WILL BE LOCATED WITHIN PREVIOUSLY DISTURBED AREAS TO THE EXTENT POSSIBLE. DISTURBED AREAS WILL BE RESTORED USING NATIVE PLANT MATERIALS.
3. FOLLOW REGIONAL STORMWATER GUIDELINES AND DESIGN BEST MANAGEMENT PRACTICES (BMPs) TO CONTROL CONTAMINATION, EROSION, AND SEDIMENTATION DURING AND AFTER CONSTRUCTION.
4. AVOID SPREADING NOXIOUS WEEDS BY MINIMIZING SOIL DISTURBANCE TO THE MAXIMUM EXTENT POSSIBLE, CLEANING CONSTRUCTION EQUIPMENT, AND RE-SEEDING OF ALL DISTURBED SOIL WITH A CERTIFIED WEED-FREE SEED MIX. USE NATIVE, WEED-FREE SEEDS, PLANTS, AND MULCH TO RE-VEGETATE ALL AREAS OF DISTURBANCE.
5. THE CONTRACTOR WILL TAKE APPROPRIATE MEASURES TO PREVENT, MINIMIZE, AND CONTROL THE SPILL OF HAZARDOUS MATERIALS IN THE CONSTRUCTION AREA. THE USE OF CONSTRUCTION EQUIPMENT WITHIN SENSITIVE AREAS WILL BE MINIMIZED OR ELIMINATED. ALL CONSTRUCTION MATERIALS USED FOR THIS PROJECT WILL BE REMOVED AS SOON AS THE WORK SCHEDULE PERMITS. ANY UNANTICIPATED HAZARDOUS MATERIALS AND/OR PETROLEUM CONTAMINATION ENCOUNTERED DURING CONSTRUCTION WILL BE HANDLED ACCORDING TO APPLICABLE FEDERAL AND STATE REGULATIONS FOR HANDLING EMERGENCY DISCOVERY OF HAZARDOUS MATERIALS.
6. ONCE CONSTRUCTION BEGINS, IF ANY SUBSURFACE ARCHAEOLOGICAL MATERIALS ARE ENCOUNTERED (E.G., ARTIFACTS SUCH AS (BUT NOT LIMITED TO) HISTORIC TRASH SUCH AS BOTTLES, DISHWARE, HOUSEHOLD OR MINING ITEMS, ETC; PREHISTORIC STONE TOOLS SUCH AS PROJECTILE POINTS OR OTHER FLAKED STONE ITEMS; OR HISTORIC OR PREHISTORIC FEATURES, SUCH AS FOUNDATIONS, STONE WALL REMAINS, MINE ADITS OR PROSPECT PITS, HEARTHES, ETC.), WORK SHOULD BE IMMEDIATELY HALTED IN THE VICINITY OF THE FIND, AND A QUALIFIED PROFESSIONAL ARCHAEOLOGIST SHOULD BE PROMPTLY NOTIFIED TO EXAMINE THE ARTIFACTS SECURED AND WORK SHOULD NOT RESUME UNTIL THE DISCOVERY CAN BE EVALUATED AND/OR REMOVED BY A QUALIFIED ARCHAEOLOGIST. IF BONES OF POTENTIAL HUMAN ORIGIN ARE ENCOUNTERED DURING CONSTRUCTION, GROUND-DISTURBING WORK MUST BE STOPPED IN THE VICINITY OF THE DISCOVERY, AND THE BOULDER COUNTY SHERIFF AND CORONER, AND THE COLORADO STATE ARCHAEOLOGIST SHOULD BE PROMPTLY NOTIFIED. WORK CANNOT RESUME NEAR HUMAN REMAINS UNTIL CLEARANCE IS GRANTED.
7. ONCE CONSTRUCTION BEGINS, IF ANY SUBSURFACE PALEONTOLOGICAL MATERIALS ARE ENCOUNTERED (E.G., VERTEBRATE, INVERTEBRATE, OR PLANT FOSSILS), WORK SHOULD BE HALTED IMMEDIATELY IN THE VICINITY OF THE FIND, AND A QUALIFIED PROFESSIONAL PALEONTOLOGIST SHOULD BE PROMPTLY NOTIFIED TO EXAMINE THE ARTIFACTS OR FEATURE. THE SITE OF THE FIND SHOULD BE SECURED AND WORK SHOULD NOT RESUME UNTIL THE DISCOVERY CAN BE EVALUATED AND/OR REMOVED BY A QUALIFIED PALEONTOLOGIST. IF WARRANTED, ADDITIONAL PALEONTOLOGIST TESTING OR DATA RECOVERY MAY BE NECESSARY BEFORE WORK CAN BE RESUMED IN THE VICINITY OF THE FIND.
8. LOCATE ACCESS ROUTES, STAGING AREAS, AND WORK AREAS WITHIN PREVIOUSLY DISTURBED OR MODIFIED AREAS WHEN FEASIBLE.

ENVIRONMENTAL NOTES CONT'D:

9. TEMPORARY LIGHTING WILL BE USED WITH DIRECTIONAL SHIELDING TO FOCUS THE LIGHTING ONTO THE DRIVING SURFACE OR PROJECT CONSTRUCTION AREA. ALL PERMANENT LIGHTING MUST BE DARK-SKY COMPLIANT. LIGHTING WILL BE LIMITED TO THE EXTENT NECESSARY TO MEET SAFETY REQUIREMENTS.

60% SET	 <p>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</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 5%;">NO.</th> <th style="width: 5%;">DATE</th> <th style="width: 90%;">REVISION DESCRIPTION:</th> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table>	NO.	DATE	REVISION DESCRIPTION:							 <p>BOULDER COUNTY TRANSPORTATION DEPARTMENT ENGINEERING DIVISION</p> <p>Michael Baker INTERNATIONAL</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">DESIGNED:</td> <td style="width: 15%;">CAD:</td> <td style="width: 15%;">CHECKED:</td> <td style="width: 15%;">DATE:</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>	DESIGNED:	CAD:	CHECKED:	DATE:					<p>WAGON WHEEL GAP ROAD GENERAL NOTES (2 OF 2)</p> <p>PROJECT NO: 4043.SEPT12C34 SHEET NO: 6</p>
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TO ESTABLISH GEOMETRIC CONTROL FOR THE CONSTRUCTION OF THIS PROJECT, THE DEPARTMENT HAS PROVIDED THE FOLLOWING INFORMATION:

- Format *
- Horizontal Control Plans
 - Vertical Control Plans
 - Roadway Alignment Plans
 - Original Terrain Data
 - Other: _____

* Specify the information format, i.e., plan sheet, computer disk, computer printout, or other. The information marked is either contained on the plans or is available from the Engineer.

TYPE OF PROJECT

- Landscaping
- Signalization
- Safety Improvement
- Asphalt Overlay
- Concrete Overlay
- Minor Widening
- Major Reconstruction
- New Roadway Construction
- Bridge Replacement
- Bridge Widening
- New Bridge
- Other: Flood Recovery and Restoration

SURVEY WORK TO BE PERFORMED BY OTHERS: _____

WORK PERFORMED BY THE CONTRACTOR'S SURVEYOR UNDER SECTION 625:

- Establish and Maintain Project Centerline or Engineer Approved Offset Line(s)
- Verification and Maintenance of Horizontal and Vertical Control
- Verify or Determine existing grades and alignments
- Verify or Determine existing topography
- GPS/RTS (Global Positioning System/Robotic Total Station) Construction Machine Control
- Clearing and Grubbing Limits (Section 201)
- Removal Limits (Section 202)
- Reset Items (Section 210)
- Excavation and Embankment (Section 203)

- Excavation
 - Unclassified
 - Stripping
 - Muck
 - Rock
 - Borrow
 - Other: _____
 - Potholing

- Embankment
- Site Grading
- Erosion Control (Perm)
- Other: _____
- As Staked Earthwork Quantities (See General Notes)

- Landscaping
 - Top Soil (Section 207)
 - Seeding (Section 212)
 - Mulching (Section 213)
 - Planting (Section 214)
 - Herbicide (Section 217)
 - Other: Seeding Boundaries

- Erosion Control (Section 208)
 - Seeding (Temp)
 - Silt Fence
 - Erosion Bales
 - Erosion Logs
 - Riprap (Temp)
 - Other: _____

- Roadway Bases
 - Untreated Subgrade
 - Treated Subgrade
 - Aggregate Base Course (Section 304)
 - Reconditioning
 - PMBB - Plant Mix Bituminous Base
 - Other: _____

	Slope Staking (Y/N)	Grid (Y/N)	Grade (Y/N)	Special Interval
Excavation	Y	N	Y	-
	-	-	-	-
	-	-	-	-
	-	-	-	-
	-	-	-	-

	Slope Staking (Y/N)	Grid (Y/N)	Grade (Y/N)	Special Interval
Embankment	Y	N	Y	-
	-	-	-	-
	-	-	-	-
	-	-	-	-
	-	-	-	-

Roadway Bases	Grid (Y/N)	Grade (Y/N)	Special Interval	Special Offset
-	-	-	-	-
N	Y	-	-	-
-	-	-	-	-
-	-	-	-	-

- Pavements
 - HMA - Hot Mix Asphalt (Section 403)
 - Concrete (Section 412)
 - Heating & Scarifying Treatment
 - Prime Coat, Tack Coat & Rejuvenating Agent (Section 407)
 - Seal Coat or Chip Seal (Section 409)
 - Other: _____

Pavements	Grid (Y/N)	Special Interval	Special Offset
N	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

- Roadway Elements
 - Curb and Gutter (Section 609)
 - Drop inlets - alignment and grades (Section 604)
 - Retaining Walls
 - Guard Rail (Section 606)
 - Sidewalk (Section 608)
 - Overlay Stationing
 - Other: Fire Department Pullouts

Curb & Gutter	Tangent Interval	Curve Interval	Special Offset
-	-	-	-

- Riprap (Perm) (Section 506)
- Slope and Ditch Paving (Section 507)

Stationing	Left Interval	Center Interval	Right Interval
-	-	-	-

- Minor Structures
 - Structure Excavation limits (Section 206)
 - Culverts (Section 603)
 - Culverts w/ Headwalls and Wingwalls (Section 601)
 - Concrete Box Culverts w/ Headwalls and Wingwalls
 - Pipes (Section 603)
 - Sanitary Sewer
 - Storm Sewer
 - Water
 - Irrigation
 - Miscellaneous
 - Manholes (Section 604)
 - Inlets (Section 604)
 - Permanent Water Quality BMP (Section 208)
 - Other: _____

- Major Structures - Overhead Signs (Section 614), Concrete Box Culverts, Bridges - and all other structures assigned a structure number
 - Structure Excavation limits (Section 206)
 - Concrete Box Culverts (Section 603) w/ Headwalls and Wingwalls (Section 601)
 - Piling locations and cut off elevations (Section 502)
 - Caisson locations and elevations (Section 503)
 - Footing locations, alignment, and elevations
 - Abutment/Pier locations, alignment, and elevations
 - Wingwall skew angles/offsets
 - Structural concrete form locations
 - Substructure As-constructed survey required for Bridges (Subsection 601.12) and Overhead signs (S-614-50)
 - Bridge expansion joint(s) alignment and grade (longitudinal and transverse)
 - Deck grades at Girder 10th or "n" th point locations and elevations
 - Slope and Ditch Paving (Section 507)
 - Other: Retaining Walls, Moment Slab

- Fencing (Section 607)
 - Temporary
 - Permanent
 - Sound Barrier
 - Other: _____

- Delineators (Section 612)
 - Temporary
 - Permanent

- Lighting (Section 613) and Traffic Control Devices (Permanent) (Section 614)
 - Signal pole locations and elevations
 - Light pole locations and elevations
 - Sign locations
 - Field verify sign post locations, elevations, and lengths before fabrication.
 - Other: _____

- Pavement Marking (Section 627)
 - Striping (Temp)
 - Striping (Perm)
 - Symbols
 - Other: _____
- Temporary Lighting and Construction Traffic Control Devices (Section 630)
 - Signal pole locations and elevations (Temp)
 - Light pole locations and elevations (Temp)
 - Sign Locations (Temp)
 - Other: _____
- All Easements (Temp Staking by P.L.S. Only)
- Right of Way (Temp Staking by P.L.S. Only)

WORK PERFORMED BY THE CONTRACTOR'S SURVEYOR UNDER SECTION 629:

- Monumentation (Section 629)
 - Control
 - Right of Way
 - Land corners, Aliquot corners
 - Easements
 - Reference the specified existing monuments: ** _____
 - Replace the specified existing monuments: ** _____
 - Locate monuments. It is estimated _____ hours are required.

NOTE: All 629 items shall include adequate research, calculations, and evaluations of evidence for monuments to be set.

** A Tabulation of Survey Monuments may be provided on the plans.

GENERAL NOTES:

- Unless indicated otherwise on this Survey Tabulation Sheet, all survey work and staking intervals shall be done in accordance with the latest edition of the CDDT Survey Manual.
- Adequate information for establishing lines, grades, and locations for all work items have been specified on the plans. Any additional information required to stake the item or element shall be generated by the Contractor's surveyor.
- The Contractor's surveyor shall provide an estimate of the man-hours necessary to complete the work items indicated on this sheet. A copy of this sheet, with the estimated man-hours written on the blank line to the left of the specified items, shall be submitted with the Survey Schedule to the Engineer 3 days prior to the Presurvey Conference - Construction Survey.
- Stakes and Monuments which are damaged or destroyed by the progress of construction shall be replaced by the Contractor at no additional cost to the Department.
- The Contractor shall furnish an As Staked (or GPS/RTS Construction Machine Control) Earthwork Quantity report to the Engineer prior to completion of twenty percent (20%) of the planned earthwork in any phase as per the CDDT Survey Manual. A printed copy of the As Staked (or GPS/RTS Construction Machine Control) Earthwork data report and a computer disk with that information on it, in the specified format shall be submitted to the Engineer. The Contractor shall field verify original ground cross sections at a maximum 500 feet intervals.
- Prior to beginning work on any subsequent operation, such as placing base course or paving, the Contractor shall certify in writing to the Engineer that the final grade is within specified tolerance.
- The Contractor's surveyor shall perform all field surveying and calculations necessary to tie plan grades into field grades.
- The Contractor shall coordinate construction staking on the project with any utility work.
- Fieldbooks shall contain daily records of points set and or measurements observed. The information recorded shall contain: date, crew members' names, point no., description, staking information, and sketches. If the survey information is collected electronically, information recorded shall be provided to the Project Engineer in a hard copy format that is intuitive, clear and related to the supplemental information recorded in the field books. All linear surveys, such as slope stakes and blue tops, shall have the station and offset information related to the measured information. Non-linear surveys such as structures staking shall have sketches relating electronic information, such as point numbers, to the sketch.
- The Contractor's surveyor shall submit the following fieldbooks to the Engineer:
 - Horizontal Control (Primary & Secondary)
 - Vertical Control (i.e. Benchmarks)
 - Property Pin Ties
 - Horizontal Alignment
 - Grading
 - Slope Staking
 - Minor Structures
 - Major Structures
 - One fieldbook for each work category shown on this sheet
 - Other Fieldbook(s): _____

60% SET	 <p>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</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>NO.</th> <th>DATE</th> <th>REVISION DESCRIPTION:</th> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table>	NO.	DATE	REVISION DESCRIPTION:							 <p>BOULDER COUNTY TRANSPORTATION DEPARTMENT ENGINEERING DIVISION</p> <p>Michael Baker INTERNATIONAL</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>DESIGNED:</th> <th>CAD:</th> <th>CHECKED:</th> <th>DATE:</th> </tr> <tr> <td>DEA</td> <td>DEA</td> <td> </td> <td> </td> </tr> </table>	DESIGNED:	CAD:	CHECKED:	DATE:	DEA	DEA			<p>WAGON WHEEL GAP ROAD SURVEY TABULATIONS</p> <p>PROJECT NO: 4043.SEPT12C34 SHEET NO: 7</p>
NO.	DATE	REVISION DESCRIPTION:																				
DESIGNED:	CAD:	CHECKED:	DATE:																			
DEA	DEA																					

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CONTROL DIAGRAM - TASK ORDER 3

A PARCEL OF LAND IN SECTIONS 17, 18 20, 21, 28 & 27,
TOWNSHIP 1 NORTH, RANGE 71 WEST AND OF THE 6TH P.M.,
COUNTY OF BOULDER, STATE OF COLORADO.

- SHEET 1 OF 1 -

DEA CP-301



DEA CP-302



DEA CP-303
"BOULDER 267"



DEA CP-304



DEA CP-305



GROUND COORDINATE TABLE:

PT #	NORTHING	EASTING	ELEV.	DESCRIPTION
301	260918.86	37998.29	6498.1	#5 REBAR W/ 1-1/4" ORANGE PLASTIC CAP
302	257914.18	40324.93	6370.5	#5 REBAR W/ 1-1/4" ORANGE PLASTIC CAP
303	256805.77	43418.89	6233.4	2" BRASS CAP IN 4" CONCRETE POST "BOULDER 267"
304	254795.59	45583.99	6018.9	#5 REBAR W/ 1-1/4" ORANGE PLASTIC CAP
305	249657.54	50020.78	5760.7	#5 REBAR W/ 1-1/4" ORANGE PLASTIC CAP

NOTES:

- 1.) The basis of coordinates for this map is the North America Datum of 1983-2011 (NAD 83 (2011)) U.S. Survey Feet, based locally upon the David Evans and Associates, Inc. Control Point DEA CP 302 for ground coordinate scale factor determination.
- 2.) The basis of elevations for this map is the North American Vertical Datum of 1988 (NAVD 88), based locally upon the CP 302. Elevations computed from a NGS OPUS Solution Report using a four (4) hour occupation data set at DEA CP 302.
- 3.) To modify ground control to Colorado State Plane North Zone; add 1,000,000 feet to North coordinate, add 3,000,000 feet to East coordinate and multiply by 1/csf (combined scale factor = 1/1.000328515 = 0.999671593).
- 4.) Fieldwork for control was completed November 2013.
- 5.) Set 18" long #5 rebar with 1-1/4" outside diameter orange plastic cap marked "DEA INC" at all control points unless otherwise noted, see Ground Coordinate Table above.

NOTICE:

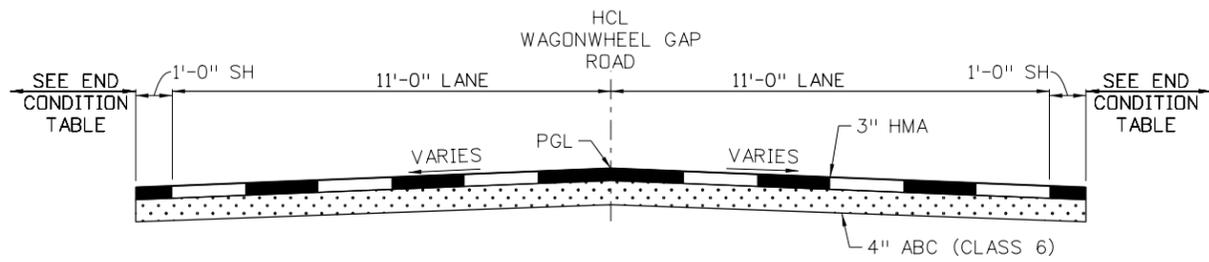
According to Colorado law you MUST commence any legal action based upon any defect in this survey within three years after you first discovered such defect. In NO event may any action based upon any defect in this survey be commenced more than ten years from the date of the certification shown hereon.



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	NO.	DATE	REVISION DESCRIPTION:	 BOULDER COUNTY TRANSPORTATION DEPARTMENT ENGINEERING DIVISION Michael Baker INTERNATIONAL	DESIGNED:	CAD:	CHECKED:	DATE:	WAGON WHEEL GAP ROAD SURVEY CONTROL PROJECT NO: 4043.SEPT12C34 SHEET NO: 8
						DEA	DEA	SLS		

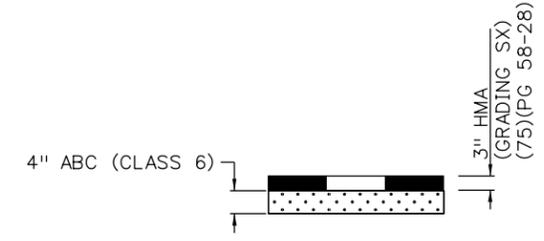
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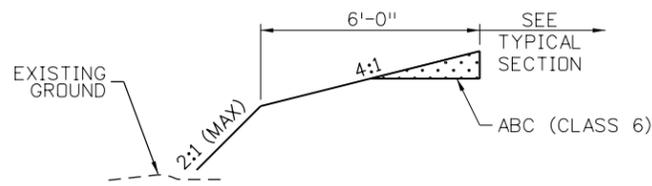
TYPICAL SECTION - WAGONWHEEL GAP ROAD

NTS
 STA 56+80.00 TO STA 97+18.09
 STA 98+45.28 TO STA 111+99.93
 STA 112+87.93 TO 113+68.57



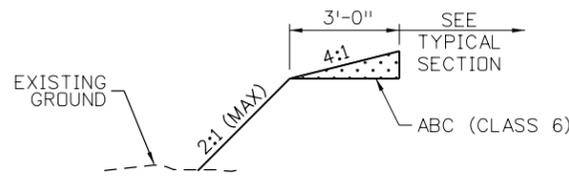
3" HOT MIX ASPHALT (HMA) DETAIL

NTS



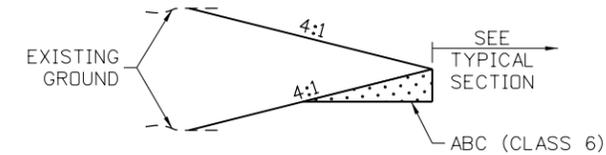
DETAIL A

7 FT CLEAR ZONE
 FILL CONDITION



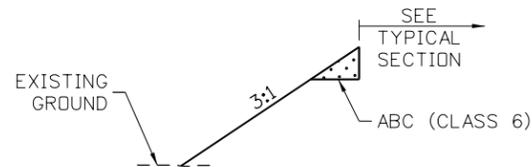
DETAIL B

4 FT CLEAR ZONE
 FILL CONDITION



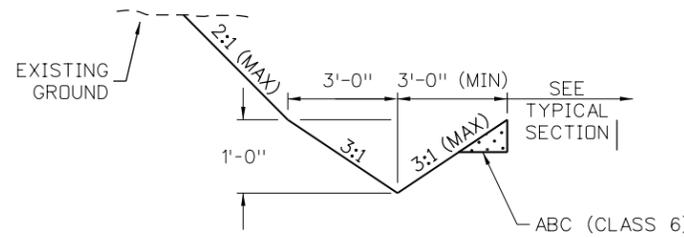
DETAIL C

4:1 CUT/FILL



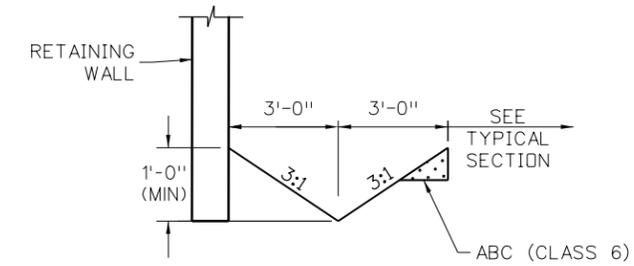
DETAIL D

3:1 FILL



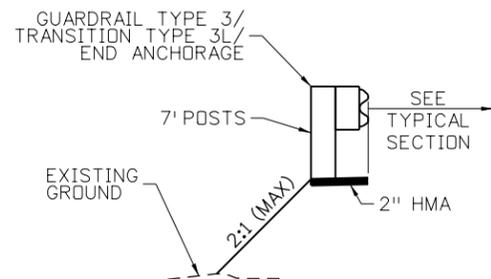
DETAIL E

ROADSIDE DITCH



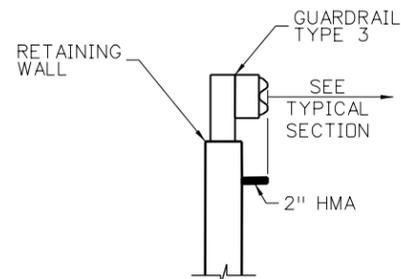
DETAIL F

ROADSIDE DITCH
 WITH CUT WALL



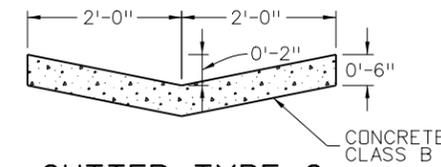
DETAIL G

GUARDRAIL TYPE 3



DETAIL H

FILL WALL WITH GUARDRAIL TYPE 3



**GUTTER TYPE 2
 (4 FOOT)**

NOTES:

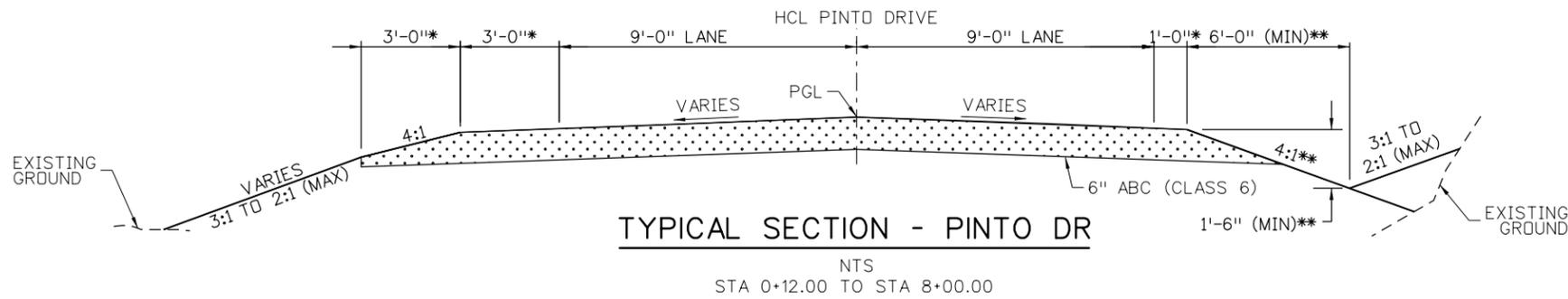
1. END CONDITION DETAILS SHOWN FOR LEFT SIDE. TO BE MIRRORED FOR RIGHT SIDE CONSTRUCTION.
2. ROADWAY SUPERELEVATION VARIES, SEE ROADWAY PROFILES.
3. SEE CDDT M-606-1 FOR END ANCHORAGE AND WIDENING DETAILS.
4. SEE ROADWAY PLANS FOR GUTTER TYPE 2 (4 FOOT) LOCATIONS.
5. SEE DRAINAGE PLANS FOR ROADSIDE DITCH LOCATIONS.
6. SEE STRUCTURAL SHEETS FOR RETAINING WALL DETAILS.

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WAGON WHEEL GAP ROAD END CONDITION TABLE				
STATION		SIDE	END CONDITION	COMMENTS
FROM	TO			
56+80.00	59+72.00	LT	E	
56+80.00	58+02.60	RT	A	
58+85.00	59+63.91	RT	C	
59+72.00	61+00.00	LT	C	
60+14.19	61+20.00	RT	E	
61+49.89	61+99.89	RT	GUARDRAIL WIDENING	
61+99.89	62+37.39	RT	G	
62+02.87	64+00.00	LT	C	
64+00.00	64+40.00	LT	E	
64+20.00	65+20.00	RT	C	20:1 CUT/FILL
65+20.00	66+05.00	RT	C	
65+52.34	67+55.00	LT	E	
66+05.00	66+17.08	RT	A	
67+55.00	67+60.00	LT	A	
67+70.00	68+95.00	RT	A	
68+81.56	69+85.00	LT	A	
68+95.00	69+40.00	RT	E	
69+85.00	70+36.00	LT	C	
70+36.00	70+60.00	LT	B	
71+05.00	71+20.00	LT	A	
71+21.03	74+35.00	RT	D	
71+35.00	71+85.00	LT	B	
72+13.28	73+11.42	LT	C	1:1 SLOPES WITH GEOGRID REINFORCEMENT. SEE SWMP PLANS
74+16.71	74+35.00	LT	D	
74+35.00	74+70.00	RT	E	
76+64.15	79+18.74	LT	C	
77+38.74	77+98.06	RT	A	
78+31.75	79+68.74	RT	A	
79+68.75	80+78.80	RT	C	
79+75.51	79+98.75	LT	E	
79+98.75	83+43.75	LT	F	SEE STRUCTURES PLANS
81+22.96	83+45.26	RT	C	
83+43.75	84+48.75	LT	E	
83+45.23	83+95.23	RT	GUARDRAIL WIDENING	
83+95.24	84+46.96	RT	G	
84+48.75	84+98.75	LT	F	SEE STRUCTURES PLANS
84+98.75	85+35.06	LT	E	
85+04.67	85+42.17	RT	GUARDRAIL WIDENING	
85+42.17	88+30.58	RT	G	
85+68.73	87+13.75	LT	F	SEE STRUCTURES PLANS
87+13.75	88+78.74	LT	C	
88+65.24	89+02.75	RT	GUARDRAIL WIDENING	
88+93.76	89+08.42	LT	F	SEE STRUCTURES PLANS
89+02.75	90+41.25	RT	G	

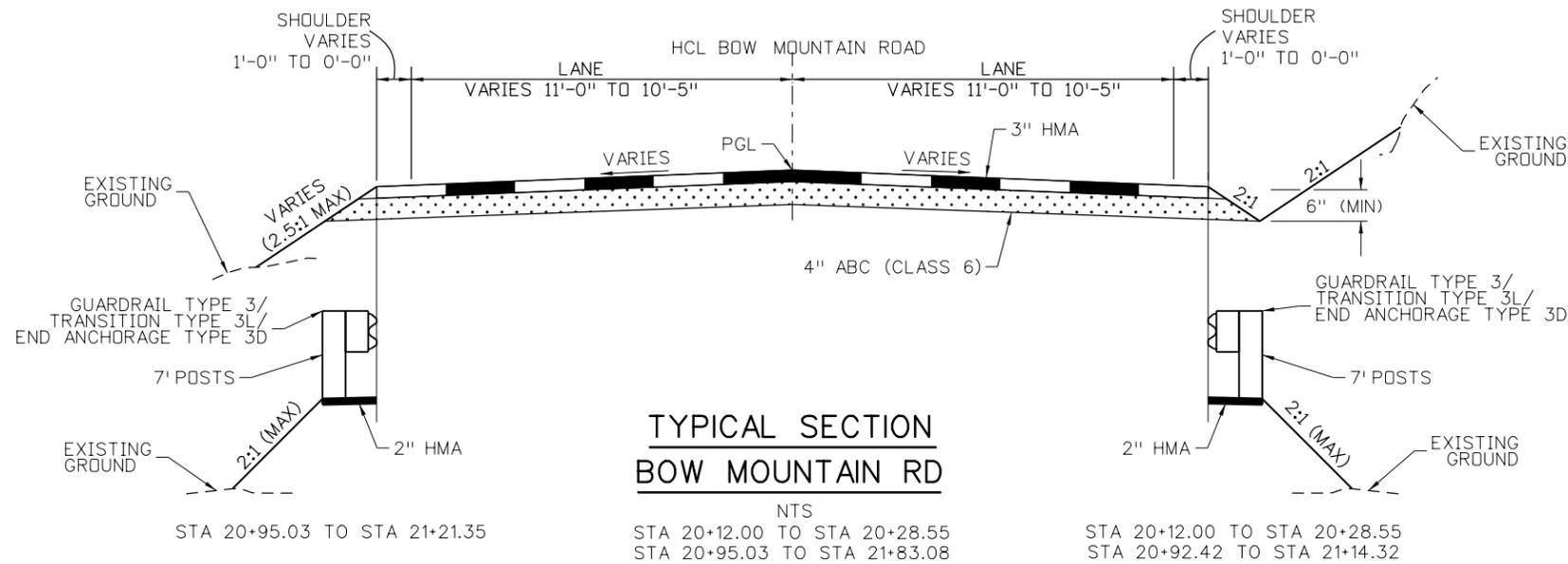
WAGON WHEEL GAP ROAD END CONDITION TABLE CONT.				
STATION		SIDE	END CONDITION	COMMENTS
FROM	TO			
89+61.45	90+11.11	LT	C	
90+11.11	91+18.74	LT	E	
90+41.25	90+78.75	RT	G	
90+78.75	91+28.75	RT	GUARDRAIL WIDENING	
91+28.75	92+22.32	RT	C	
92+03.84	92+38.21	LT	C	6:1 MAX GRADE AT MAILBOXES
93+09.53	96+51.18	RT	A	
93+38.60	94+40.00	LT	E	
94+70.00	94+88.73	LT	E	
94+88.73	96+20.00	LT	C	
97+06.58	97+20.80	RT	APPROACH SLAB	SEE STRUCTURES PLANS
97+20.80	98+11.30	RT	BRIDGE	SEE STRUCTURES PLANS
97+30.09	97+44.80	LT	APPROACH SLAB	SEE STRUCTURES PLANS
97+44.80	98+45.01	LT	BRIDGE	SEE STRUCTURES PLANS
98+06.50	98+19.99	RT	A	
98+11.30	98+27.53	RT	APPROACH SLAB	SEE STRUCTURES PLANS
98+27.53	99+65.00	RT	C	
98+45.01	98+68.12	LT	APPROACH SLAB	SEE STRUCTURES PLANS
98+68.12	100+50.00	LT	H	SEE STRUCTURES PLANS
99+65.00	100+95.00	RT	A	
100+50.00	101+83.55	LT	A	
100+95.00	103+48.92	RT	C	
101+83.55	102+39.55	LT	C	
102+39.55	102+95.00	LT	A	
103+15.00	104+90.92	LT	B	
103+48.93	106+38.59	RT	A	
104+90.93	106+82.60	LT	E	
106+38.60	107+21.55	RT	C	
106+82.60	110+88.43	LT	A	
107+97.88	110+19.87	RT	A	
110+88.43	111+38.43	LT	GUARDRAIL WIDENING	
110+88.43	111+38.43	RT	GUARDRAIL WIDENING	
111+38.43	111+99.93	LT	G	
111+38.43	111+99.93	RT	G	
111+99.93	112+14.43	LT	APPROACH SLAB	SEE STRUCTURES PLANS
111+99.93	112+14.43	RT	APPROACH SLAB	SEE STRUCTURES PLANS
112+14.43	112+73.43	LT	BRIDGE	SEE STRUCTURES PLANS
112+14.43	112+73.43	RT	BRIDGE	SEE STRUCTURES PLANS
112+73.43	112+87.93	LT	APPROACH SLAB	SEE STRUCTURES PLANS
112+73.43	112+87.93	RT	APPROACH SLAB	SEE STRUCTURES PLANS
112+87.93	113+49.43	LT	G	
112+87.93	113+49.43	RT	G	
113+49.43	113+68.57	LT	GUARDRAIL WIDENING	
113+49.43	113+68.57	RT	GUARDRAIL WIDENING	

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: BMC	CAD: EAV	CHECKED:	DATE:	WAGONWHEEL GAP ROAD TYPICAL SECTIONS (SHEET 2 OF 3) PROJECT NO: 4012.SEPT12C39 SHEET NO: 10
		REVISIONS:		DESIGNED:	CAD:	CHECKED:	DATE:	

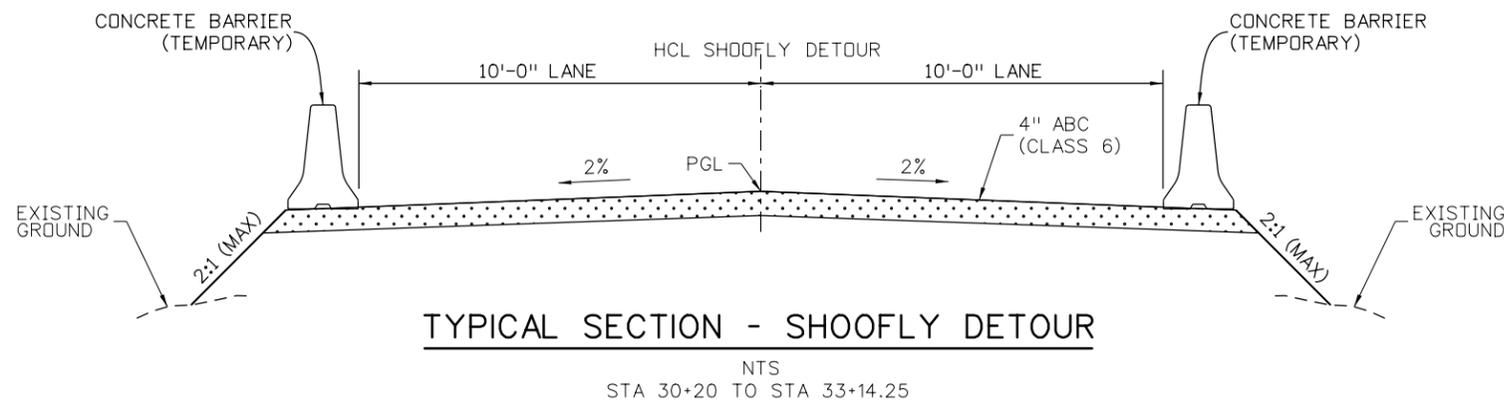


* SEE ROADWAY PLANS FOR PARKING LANE WIDENING LOCATIONS

** AT PARKING AREA
1'-0" (MIN) HORIZONTAL TO DITCH FLOWLINE
6" (MIN) VERTICAL TO DITCH FLOWLINE
SLOPE VARIES



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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

NO.	DATE	REVISION DESCRIPTION:

BOULDER COUNTY TRANSPORTATION DEPARTMENT
ENGINEERING DIVISION

Michael Baker INTERNATIONAL

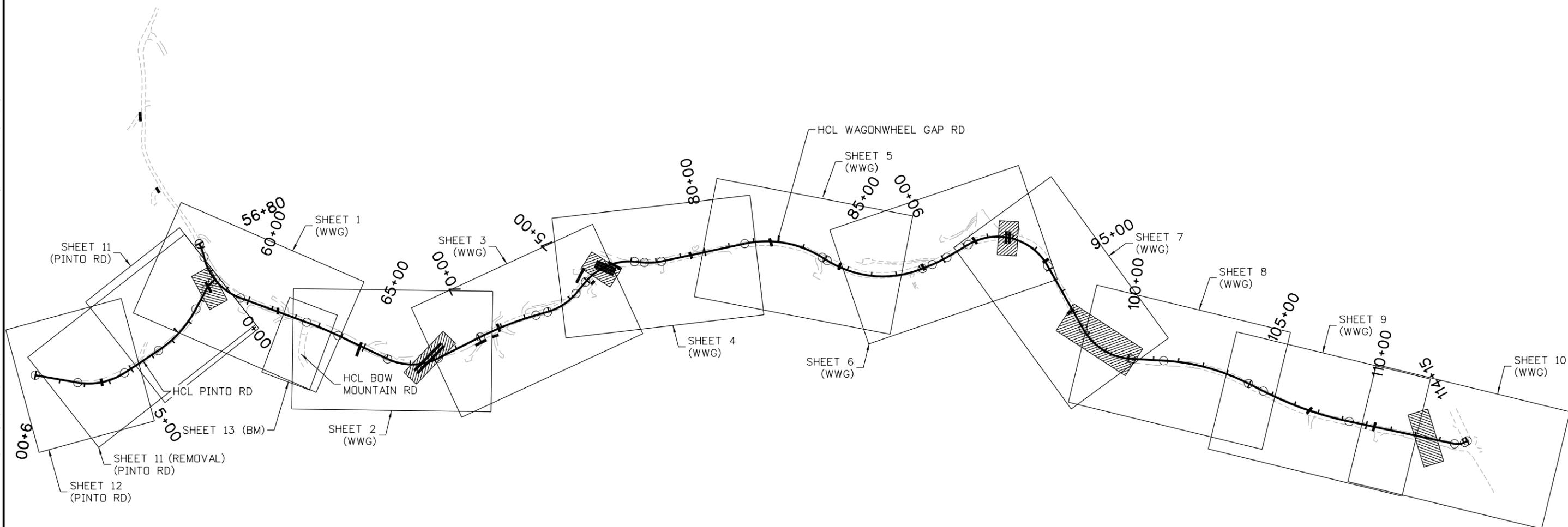
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WAGONWHEEL GAP ROAD TYPICAL SECTIONS (SHEET 3 OF 3)

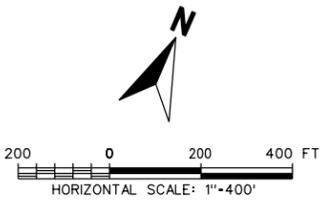
PROJECT NO: 4012.SEPT12C39 SHEET NO: **11**

LEGEND

-  ROADWAY, DRAINAGE AND REMOVAL PLANS
-  DRAINAGE PLAN AND PROFILE SHEETS



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60% SET	 <p>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</p>	REVISIONS:	NO.	DATE	REVISION DESCRIPTION:	 <p>BOULDER COUNTY TRANSPORTATION DEPARTMENT ENGINEERING DIVISION</p> <p>Michael Baker INTERNATIONAL</p>	DESIGNED:	CAD:	CHECKED:	DATE:	<p>WAGON WHEEL GAP ROAD KEY MAP</p> <p>PROJECT NO: 4043.SEPT12C34 SHEET NO: 12</p>
							EAV	EAV			