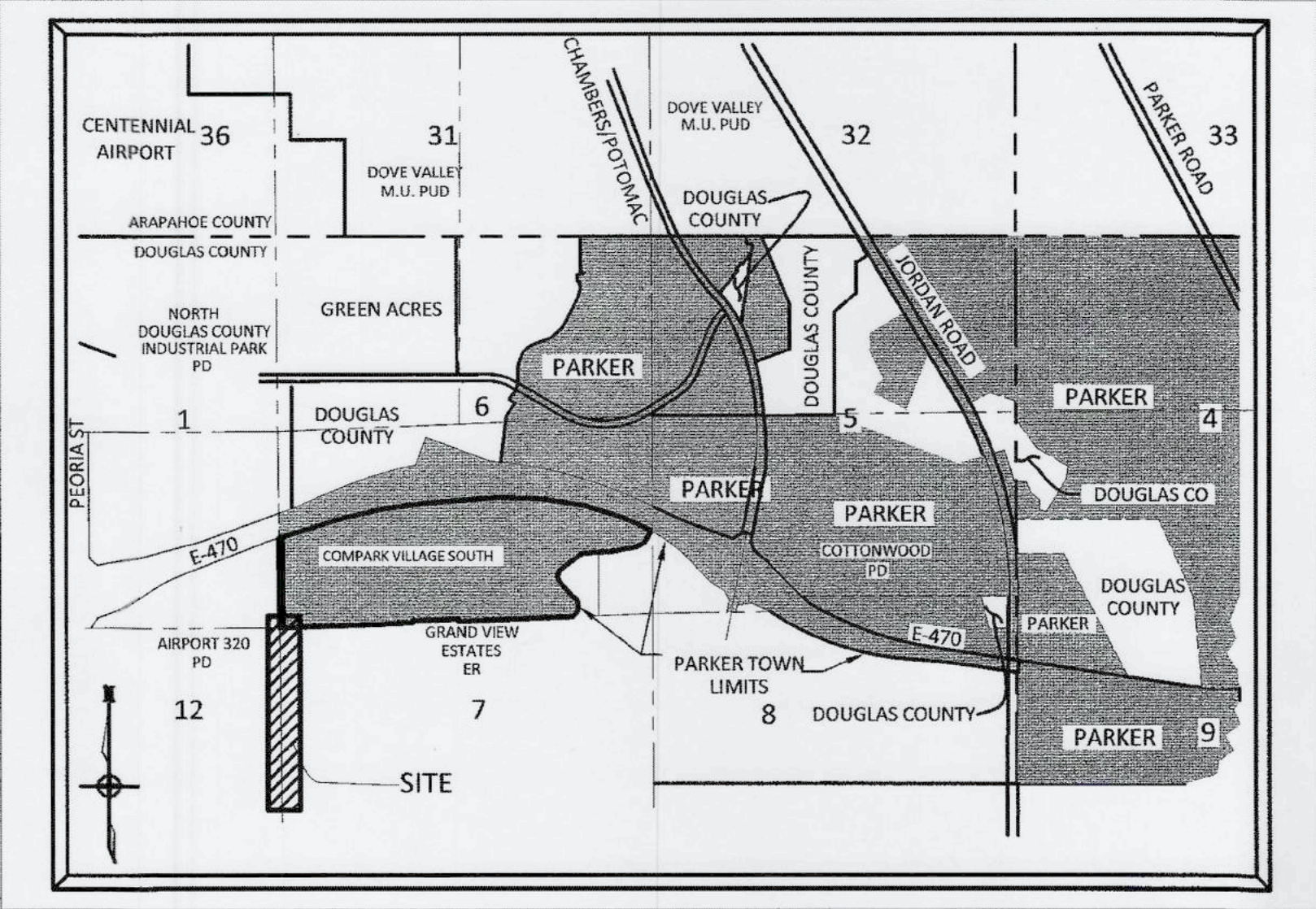


GRADING, EROSION, AND SEDIMENT CONTROL PLANS FOR
COMPARK VILLAGE SOUTH FILING NO. 1
FIRST STREET IMPROVEMENTS
COUNTY OF DOUGLAS, STATE OF COLORADO



VICINITY MAP
N.T.S.

OWNER/DEVELOPER

470 COMPARK
290 FILLMORE ST #1A
DENVER, CO 80206

AGENCY LIST

MANHARD LTD	(303) 708-0500
DOUGLAS COUNTY ENGINEERING	(303) 660-7490
DENVER UTILITY INFORMATION	(303) 534-6700
PUBLIC SERVICE COMPANY OF COLORADO	(303) 571-2565
IREA	(303) 688-3100
XCEL ENERGY	(303) 329-1618
SOUTH METRO FIRE	(720) 488-7200
STONEGATE VILLAGE METRO DISTRICT	(303) 858-9909
COMCAST	(720) 490-3867
CENTURY LINK	(303) 792-6069
INTERMOUNTAIN RURAL ELECTRIC ASSOCIATION	(303) 688-3100
UTILITY NOTIFICATION COMPANY OF COLORADO	1-(303) 922-1987 (811)

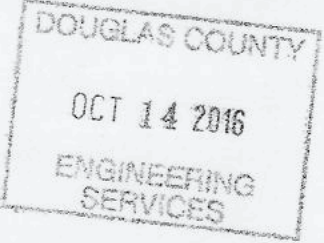
KEY CONTACTS

MIKE VICKERS 470 COMPARK	(303)-881-6292
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ENGINEER/SURVEYOR



SHEET NUMBER	SHEET TITLE
1	COVER SHEET
2	GENERAL NOTES
3	INITIAL GESC PLAN
4	INTERIM GESC PLAN
5	FINAL GESC PLAN
6	FIRST STREET P&P
7	FIRST STREET P&P
8	GESC DETAILS - 1 OF 3
9	GESC DETAILS - 2 OF 3
10	GESC DETAILS - 3 OF 3



BENCHMARKS

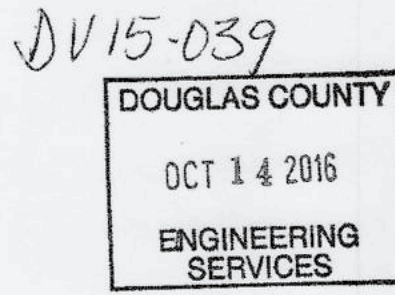
SOURCE BENCHMARKS:
DOUGLAS COUNTY BM 1.115010
A DOUGLAS COUNTY GIS MONUMENT SET IN CONCRETE LOCATED APPROXIMATELY 130 FEET SOUTHWESTERLY OF THE CENTERLINE OF CHAMBERS ROAD AND 95 FEET NORTHWESTERLY OF THE CENTERLINE OF COMPARK BOULEVARD. ELEVATION = 5752.84 (NAVD 88)

SITE BENCHMARKS:
1. A NO. 5 REBAR WITH 2" ALUMINUM CAP STAMPED "LS 28286, 2001" FOUND AT THE SOUTHWEST CORNER OF SECTION 6, T6S, R66W LOCATED ON THE WEST LINE OF FIRST STREET APPROXIMATELY 1000 FEET NORTH OF ELM AVENUE. ELEVATION = 5845.51
2. A 2.5" IRON PIPE WITH 3.25" ALUMINUM CAP STAMPED "PLS 12405, 1997" FOUND AT THE SOUTHEAST CORNER OF SECTION 6, T6S, R66W LOCATED APPROXIMATELY 960 FEET NORTH OF THE CENTERLINE OF AVENTERRA PARKWAY AND APPROXIMATELY 1050 FEET WEST OF THE CENTERLINE OF CHAMBERS ROAD. ELEVATION = 5808.06

ENGINEER'S CERTIFICATION:

THE GRADING, EROSION, AND SEDIMENT CONTROL PLAN INCLUDED HEREIN HAS BEEN PREPARED UNDER MY DIRECT SUPERVISION IN ACCORDANCE WITH THE REQUIREMENTS OF THE GRADING, EROSION, AND SEDIMENT CONTROL (GESC) CRITERIA MANUAL OF DOUGLAS COUNTY, AS AMENDED.

RICKY J. MOORE, P.E. NUMBER 30877
ON BEHALF OF MANHARD CONSULTING



ASSISTANT DIRECTOR OF DEVELOPMENT REVIEW
10/23/19
10/21/16

THESE CONSTRUCTION PLANS HAVE BEEN REVIEWED BY DOUGLAS COUNTY FOR GRADING, EROSION, SEDIMENT CONTROL, STREET AND DRAINAGE IMPROVEMENTS ONLY.

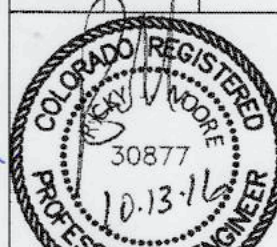
ENGINEERING DIVISION ACCEPTANCE BLOCK

DOUGLAS COUNTY GESC NOTE

THE GRADING, EROSION, AND SEDIMENT CONTROL PLAN INCLUDED HEREIN HAS BEEN PLACED IN THE DOUGLAS COUNTY FILE FOR THIS PROJECT AND APPEARS TO FULFILL APPLICABLE DOUGLAS COUNTY GRADING, EROSION AND SEDIMENT CONTROL CRITERIA, AS AMENDED. ADDITIONAL GRADING, EROSION AND SEDIMENT CONTROL MEASURES MAY BE REQUIRED OF THE PERMITTEE(S) DUE TO UNFORSEEN EROSION PROBLEMS OR IF THE SUBMITTED GESC PLAN DOES NOT FUNCTION AS INTENDED. THE REQUIREMENTS OF THIS GESC PLAN SHALL RUN WITH THE LAND AND BE THE OBLIGATION OF THE PERMITTEE(S), UNTIL SUCH TIME AS THE GESC PLAN IS PROPERLY COMPLETED, MODIFIED, OR VOIDED.



CVS FILING NO. 1 - FIRST STREET IMPROVEMENTS
DOUGLAS COUNTY, COLORADO
COVER SHEET



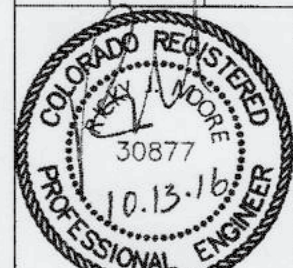
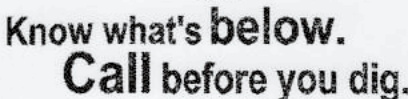
PROJ. MGR.: RJM
PROJ. ASSOC.: BRB
DRAWN BY:
DATE: 07/2016

SHEET
1 OF 10
CLCPKC3.03

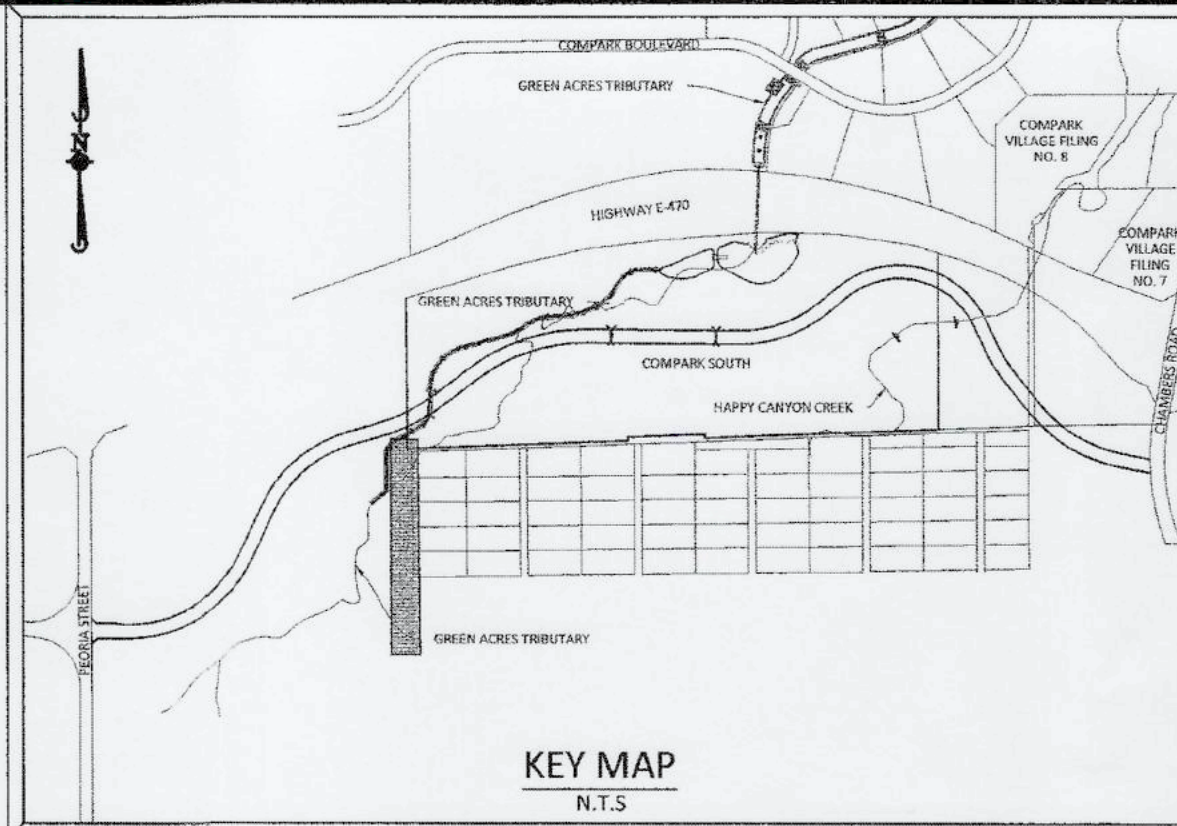
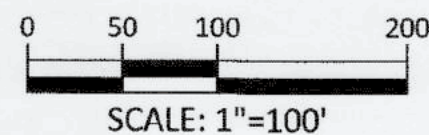
1. THE CONTRACTOR SHALL CONTINUOUSLY MAINTAIN ALL SILT FENCING SO THAT IT FUNCTIONS PROPERLY DURING CONSTRUCTION AND WORK SUSPENSIONS. ALL SILT FENCING SHALL BE REMOVED BY THE CONTRACTOR UPON SUBSTANTIAL PERMANENT STABILIZATION UNLESS OTHERWISE DIRECTED BY AUTHORIZED COUNTY PERSONNEL.
2. ALL INLET/OUTLET PROTECTION WILL BE CHECKED FOR MAINTENANCE AND FAILURE. SEDIMENT SHALL BE REMOVED AND PROPERLY DISPOSED OF ONCE IT HAS ACCUMULATED TO HALF THE DESIGN OF THE TRAP.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE VEHICLE TRACKING CONTROL DURING THE ENTIRE TIME THAT IT IS IN USE IN THE PROJECT. THE VEHICLE TRACKING CONTROL SHALL BE REMOVED AT THE COMPLETION OF THIS PROJECT UNLESS OTHERWISE DIRECTED BY AUTHORIZED CITY PERSONNEL.
4. ALL SPILLS SHALL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY, OR CONTAINED UNTIL APPROPRIATE CLEANUP METHODS CAN BE EMPLOYED. MANUFACTURE'S RECOMMENDED METHODS FOR SPILL CLEANUP SHALL BE FOLLOWED, ALONG WITH PROPER DISPOSAL METHODS.
5. EACH CONCRETE TRUCK OPERATOR SHALL BE AWARE OF THE DESIGNATED CONCRETE WASHOUT AREA.
6. THE CONTRACTOR SHALL CHECK ALL CONCRETE WASHOUT AREAS CAPACITY. WASTE MATERIALS MUST BE REMOVED BY THE CONTRACTOR AND LEGALLY DISPOSED OF WHEN IT HAS ACCUMULATED TO TWO-THIRDS OF THE WET STORAGE CAPACITY OF THE STRUCTURE.
7. ALL CONCRETE WASHOUT AREAS SHALL BE CLEARLY MARKED. THE CONCRETE WASHOUT CONTAINMENT DETAIL WILL INCLUDE ORANGE PLASTIC CONSTRUCTION FENCING OR EQUIVALENT AROUND THE WASHOUT STRUCTURE AND A SIGN POSTED LABELED "CONCRETE WASHOUT".
8. THE CONCRETE WASHOUT AREA SHALL BE REPAIRED AND/OR ENLARGED AS NECESSARY TO MAINTAIN CAPACITY FOR WASTED CONCRETE.
9. AT THE END OF CONSTRUCTION, ALL CONCRETE SHALL BE REMOVED FROM THE SITE AND LEGALLY DISPOSED OF AT AN APPROVED WASTE SITE.
10. SEDIMENT BASINS SHALL BE INSTALLED BEFORE ANY LAND DISTURBANCE TAKES PLACE IN THE DRAINAGE AREA. THE AREA UNDER THE EMBANKMENT SHALL BE CLEARED, GRUBBED, AND STRIPPED OF ALL VEGETATION AND ROOT MAT. SEDIMENT SHALL BE REMOVED WHEN IT HAS ACCUMULATED TO ONE HALF OF THE WET STORAGE DEPTH. OF THE BASIN AND DISPOSED OF AT AN APPROVED LOCATION AS DIRECTED BY AUTHORIZED CITY PERSONNEL.
11. ALL SEDIMENT SHALL BE REMOVED UPON INITIAL ACCEPTANCE FROM TEMPORARY SEDIMENT BASINS AND STORM SEWER FACILITIES I.E. PIPES, OUTLETS, AND INLETS. THIS SEDIMENT SHALL NOT BE FLUSHED OFF-SITE, BUT SHALL BE CAPTURED ON-SITE AND DISPOSED OF AT AN APPROVED LOCATION AS DIRECTED BY AUTHORIZED CITY PERSONNEL.

1. OWNER/CONTRACTOR IS RESPONSIBLE FOR OBTAINING A STATE OF COLORADO, CDPHE, GENERAL PERMIT APPLICATION - STORMWATER DISCHARGE ASSOCIATED WITH CONSTRUCTION OR ANY ACTIVITY PRIOR TO CONSTRUCTION (NPDES PERMIT). THE OWNER/CONTRACTOR SHALL PROVIDE THE COUNTY WITH A COPY OF THIS PERMIT APPLICATION TO THE STATE PRIOR TO RECEIVING A GRADING/CONSTRUCTION PERMIT. THE OWNER/CONTRACTOR IS RESPONSIBLE FOR ALL FEES ASSOCIATED WITH THIS STATE PERMIT.
2. OWNER/CONTRACTOR IS RESPONSIBLE FOR FILING A STATE OF COLORADO, CDPHE INACTIVATION NOTICE - CONSTRUCTION STORMWATER DISCHARGE GENERAL PERMIT CERTIFICATION; ONCE THE CONSTRUCTION SITE HAS BEEN FINALLY STABILIZED ACCORDING TO THE APPROVED PERMIT, THE CONTRACTOR SHALL PROVIDE THE COUNTY WITH A COPY OF THIS NOTICE. THERE IS NO FEE ASSOCIATED WITH THIS NOTICE AND THERE WILL BE NO FEE CHARGED TO THE COUNTY OR IF THE CONTRACTOR NEGLECTS TO FILE THIS NOTICE.
3. A THOROUGH INSPECTION OF THE STORMWATER MANAGEMENT PLAN BEST MANAGEMENT PRACTICES (BMPs) SHALL BE PERFORMED EVERY FOURTEEN (14) DAYS AND AFTER ANY PRECIPITATION OR SNOWMELT EVENT. PERIODIC INSPECTIONS SHALL ALSO INCLUDE INSPECTING EQUIPMENT FOR LEAKS AND REVIEWING EQUIPMENT MAINTENANCE PRACTICE. ALL INSPECTIONS AND MAINTENANCE SHALL BE DOCUMENTED BY THE PROJECT EROSION CONTROL SUPERVISOR AND MADE AVAILABLE TO THE DOUGLAS COUNTY AND CDPHE UPON REQUEST. ANY EROSION CONTROL BMPs THAT HAVE BEEN COMPROMISED OR HAVE BEEN DISTURBED SHALL BE REPLACED OR RECONSTRUCTED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE ALL EROSION CONTROL BMPs IN PLACE AND EFFECTIVE PRIOR TO A STORM EVENT.
4. THE STORMWATER MANAGEMENT PLAN LOG BOOK (LOG) SHALL BE UPDATED EVERY FOURTEEN (14) DAYS. THIS LOG SHALL REMAIN ON SITE AVAILABLE FOR REVIEW BY THE DOUGLAS COUNTY AND CDPHE UPON REQUEST UNTIL AN INACTIVATION NOTICE FOR CONSTRUCTION STORMWATER DISCHARGE GENERAL PERMIT CERTIFICATION HAS BEEN OBTAINED. MAINTENANCE ACTIVITIES TO CORRECT PROBLEMS NOTED DURING INSPECTIONS MUST BE DOCUMENTED.
5. THE CONCRETE WASHOUT CONTAINMENT STRUCTURE SHALL CONTAIN ALL WASHOUT WATER. STORMWATER SHALL NOT CARRY WASTES FROM WASHOUT LOCATION.
6. THE CONCRETE WASHOUT CONTAINMENT STRUCTURE SHALL BE LOCATED A MINIMUM OF 50-HORIZONTAL- FEET FROM STATE WATERS. THE CONCRETE WASHOUT CONTAINMENT STRUCTURE SHALL BE SIGNED AS "CONCRETE WASHOUT".
7. EARTH DISTURBANCES SHALL BE CONDUCTED IN SUCH A MANNER SO AS TO EFFECTIVELY REDUCE ACCELERATED SOIL EROSION AND RESULTING SEDIMENTATION, AND SHALL NOT EXCEED THE EROSION EXPECTED TO OCCUR FOR THE SITE IN ITS TOTALLY UNDEVELOPED STATE.
8. PERSONS ENGAGED IN EARTH DISTURBANCES SHALL DESIGN, IMPLEMENT, AND MAINTAIN ACCEPTABLE SOIL EROSION AND SEDIMENTATION CONTROL MEASURES, IN CONFORMANCE WITH THE EROSION CONTROL TECHNICAL STANDARDS ADOPTED BY THE COUNTY.
9. ANY TEMPORARY OR PERMANENT FACILITY DESIGNED AND CONSTRUCTED FOR THE CONVEYANCE OF WATER AROUND, THROUGH, OR FROM THE EARTH DISTURBANCE AREA SHALL BE DESIGNED TO LIMIT THE WATER FLOW TO A NON-EROSIVE VELOCITY.

	PROPOSED SANITARY SEWER W/MANHOLE
	PROPOSED WATERLINE W/ GATE VALVE
	PROPOSED F.H. ASSEMBLY, GATE VALVE &
	EXISTING SANITARY SEWER W/ MANHOLE
	EXISTING WATERLINE W/ GATE VALVE
	EXISTING F.H. ASSEMBLY, GATE VALVE & TEE
	EXISTING HIGH PRESSURE GAS LINE
	PROPOSED STORM SEWER W/ MANHOLE
	PROPOSED EOA, FL AND BOC
	PROPOSED SIDEWALK
	PROPOSED ROW
	PROPOSED UTILITY EASEMENT
	EXISTING TOP BACK OF CURB
	EXISTING FLOWLINE
	EXISTING LIP OF CURB/EDGE OF ASPHALT
	EXISTING STORM INLET
	PROPOSED STORM INLET
	PROPOSED WATER SERVICE W/ CURBSTOP
	PROPOSED SANITARY SERVICE
	EXISTING WATER SERVICE W/ CURBSTOP
	EXISTING SANITARY SERVICE
	CAUTION UTILITY CROSSING
	PROPOSED CROSS PAN
	EXISTING CROSS PAN
	PROPOSED CONTOURS
	EXISTING CONTOURS
	EXISTING TELEPHONE LINE
	EXISTING ELECTRIC LINE
	EXISTING STORM
	EXIST. OVERHEAD UTILITY
	EXISTING POWER POLES
	HIGH POINT
	LOW POINT
	TOP OF WALL ELEVATION
	MATCH EXISTING
	INDICATES PROPERTY CORNER ELEV. PER GRADING TEMPLATES
	CUT/FILL LINE
	FLOW DIRECTION ARROW
	PROPOSED ASPHALT LIMITS
	PROPOSED SIGN
	PROPOSED STREET LIGHT



NOTE: TO REDUCE THE POTENTIAL FOR CLOGGING OF DEBRIS GRATES, NO STRAW MULCH SHALL BE USED WITHIN THE EXCESS URBAN RUNOFF VOLUME OF A DETENTION BASIN. INSTEAD, EROSION CONTROL BLANKET SHALL BE INSTALLED FOR A WIDTH OF AT LEAST 6-FEET ON BOTH SIDES OF THE CONCRETE LOW FLOW CHANNEL OR UP TO A DEPTH OF 1-FOOT IN SOIL RIPRAP OR BENCHED LOW FLOW CHANNELS. ADDITIONALLY, HYDRAULICALLY-APPLIED WOOD FIBER MULCH, STABILIZED FIBER MATRIX, BONDED FIBER MATRIX, OR FLEXIBLE GROWTH MEDIUM SHALL BE USED IN ALL OTHER AREAS WITHIN THE EXCESS URBAN RUNOFF VOLUME OF THE DETENTION BASIN. THE BLANKET AND HYDRAULICALLY-APPLIED MULCH SHALL COMPLY WITH THE MATERIALS AND INSTALLATION REQUIREMENTS FOR EROSION CONTROL BLANKETS AS REQUIRED BY THE TOWN'S CBMP PROGRAM, AND WHERE APPLICABLE, THE PRODUCT MANUFACTURER.



SOURCE BENCHMARKS:

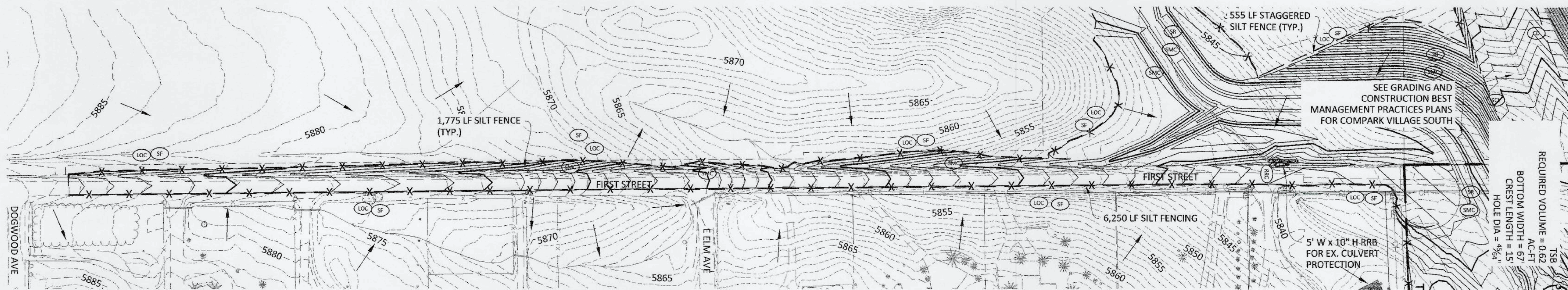
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SOUTHWESTERLY OF THE CENTERLINE OF CHAMBERS ROAD AND 95 FEET NORTHWESTERLY OF
THE CENTERLINE OF COMPAK BOULEVARD. ELEVATION = 5752.84 (NAVD 88)

BMP LEGEND

- | | |
|--|------------------------------|
| | FLOW/SLOPE DIRECTION |
| | CWA CONCRETE WASHOUT AREA |
| | CHECK DAM |
| | DIVERSION DITCH |
| | EROSION CONTROL BLANKET |
| | INLET PROTECTION |
| | REINFORCED ROCK BERM |
| | RRB FOR CULVERT PROTECTION |
| | SEDIMENT BASIN |
| | SEDIMENT CONTROL LOG |
| | SEEDING, MULCHING & CRIMPING |
| | SILT FENCE |
| | STABILIZED STAGING AREA |
| | SURFACE ROUGHENING |
| | VEHICLE TRACKING CONTROL |
| | LIMITS OF CONSTRUCTION |
| | STOCKPILE AREA |

BMP PHASING LEGEND

- | | |
|--|-------------------------------|
| | PROPOSED BMP FOR PHASE |
| | EXISTING BMP FOR PHASE |
| | REMOVE EXISTING BMP FOR PHASE |



NOTES:

1. SEE COVER SHEET OF DOUGLAS COUNTY STANDARD NOTES AND DETAILS (SHEET 8) FOR LEGEND OF BMP NAMES AND SYMBOLS.
2. SHADED BMPs WERE INSTALLED IN INITIAL OR INTERIM GESC DRAWING UNLESS OTHERWISE NOTED, AND UNLESS OTHERWISE INDICATED SHALL BE LEFT IN PLACE UNTIL REVEGETATION ESTABLISHMENT IS APPROVED BY THE COUNTY.
3. ALL INTERIM EROSION AND SEDIMENT CONTROL BMPs, INCLUDING DRILL SEEDING AND CRIMP MULCHING OF DISTURBED AREAS, MUST BE INSTALLED, INSPECTED, AND APPROVED BY THE COUNTY PRIOR TO THE ISSUANCE OF A RIGHT-OF-WAY USE AND CONSTRUCTION PERMIT FOR THE PURPOSE OF PAVING OR INSTALLATION OF CURB AND GUTTER.
4. ANY SLOPES BETWEEN 3:1 AND 4:1 WILL REQUIRE THE USE OF EROSION CONTROL BLANKETS OR MECHANICALLY BONDED FIBER MATRIX.
5. SEE CONSTRUCTION PLANS FOR DETAILS OF PERMANENT DRAINAGE FACILITIES SUCH AS WATER QUALITY FACILITIES, CULVERTS, STORM DRAIN, INLETS, OUTLET PROTECTION, AND ROADWAY IMPROVEMENTS.
6. ACCEPTANCE OF THE POST-CONSTRUCTION PERMANENT BMPs WILL NOT OCCUR UNTIL ALL TRIBUTARIES TO THE POST-CONSTRUCTION PERMANENT BMPs ARE COMPLETE AND FINAL LANDSCAPE HAS BEEN ESTABLISHED.
7. EROSION CONTROL BLANKET SHALL BE USED IN AREAS WHERE 4:1 OR STEEPER SLOPE PREVAILS. COMPOST BLANKET SHALL NOT BE USED IN AREAS WHERE CONCENTRATED FLOW ROUTES OCCUR.
8. THESE MEASURES MAY BE MODIFIED WITH COUNTY INSPECTOR APPROVAL AS SITE CONDITIONS GOVERN. THIS MAY INCLUDE ELIMINATING CERTAIN EROSION CONTROL MEASURES IF THOSE MEASURES BECOME UNNECESSARY, OR ADDING ADDITIONAL EROSION CONTROL MEASURES IF THEY ARE NECESSARY.
9. SEDIMENTATION TRAPS & DIVERSION DITCHES SHALL BE INSTALLED ONCE FINAL GRADES ARE ACHIEVED WITHIN BLOCK AREAS.
10. DURING THE CONSTRUCTION PROCESS SUCH AS UTILITY INSTALLATION AND INDIVIDUAL LOT CONSTRUCTION. DIVERSION DITCHES SHALL BE MAINTAINED TO CONTROL RUNOFF AND SEDIMENT. SEDIMENT TRAPS SHALL BE MOVED UPSTREAM OF CONSTRUCTED LOTS.
11. PERMANENT LANDSCAPING, OR APPROVED EROSION CONTROL MEASURES SHALL BE INSTALLED WITHIN CONSTRUCTED LOTS TO OBTAIN FINAL STABILIZATION.
12. PRIOR TO PLACEMENT OF CONCRETE, A CONCRETE WASHOUT AREA SHALL BE LOCATED ONSITE.
13. DOUGLAS COUNTY RESERVES THE RIGHT TO REQUIRE ADDITIONAL OR DIFFERENT BMP MEASURES AT THE DISCRETION OF THE DOUGLAS COUNTY INSPECTOR TO ADDRESS ANY EROSION AND/OR SEDIMENT ISSUES RESULTING FROM CONSTRUCTION.
14. THESE IMPROVEMENTS ARE TO BE CONSTRUCTED AS A PART OF THE BELFORD/GREEN ACRES TRIBUTARY IMPROVEMENT PROJECT KNOWN AS COMPAK VILLAGE SOUTH FILING 1. SEE PLANS FOR MORE INFORMATION.
A) CONSTRUCTION ACCESS WILL BE MADE VIA PEORIA STREET. NO ACCESS VIA GRAND VIEW ESTATES.



10/23/10
ASSISTANT DIRECTOR OF DEVELOPMENT REVIEW

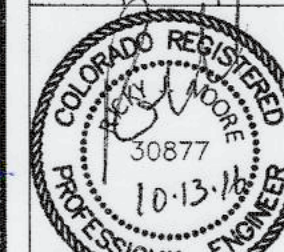
10/2/16
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ONLY.

ENGINEERING DIVISION ACCEPTANCE BLOCK

CVS FILING NO. 1 - FIRST STREET IMPROVEMENTS

DOUGLAS COUNTY, COLORADO

INITIAL GESC PLAN



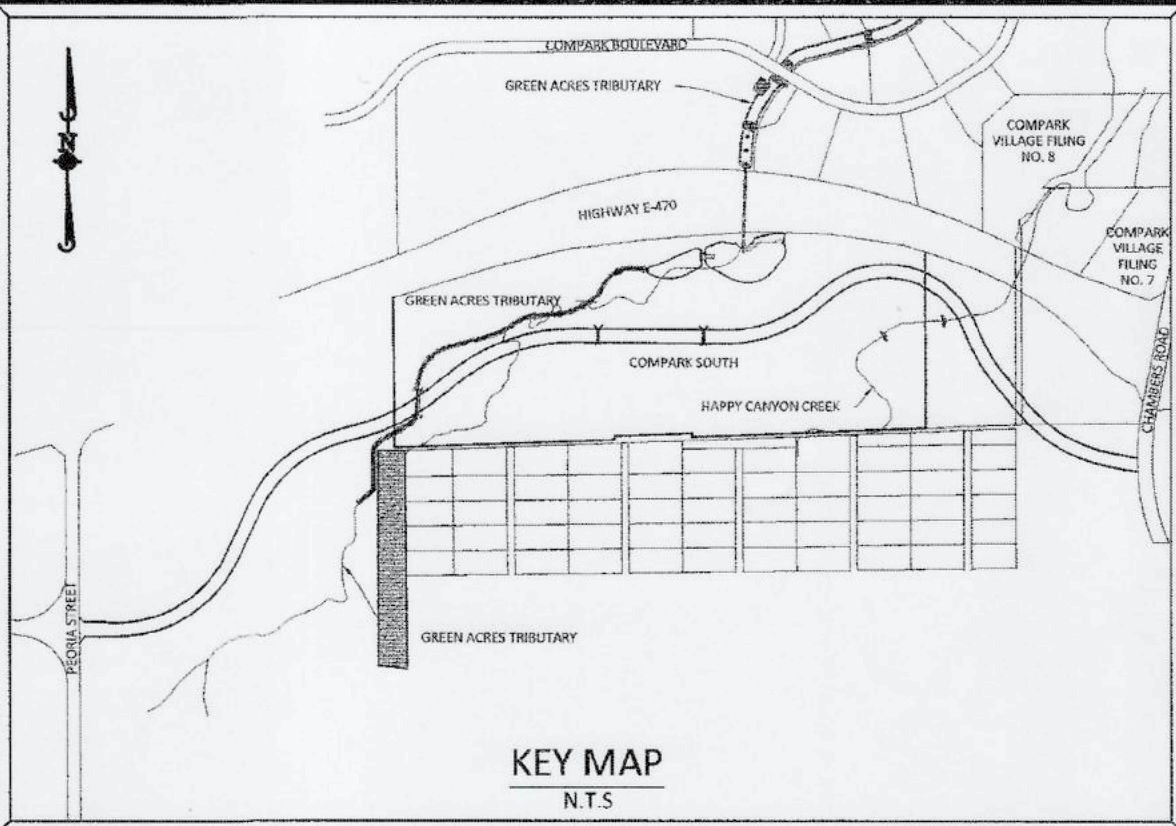
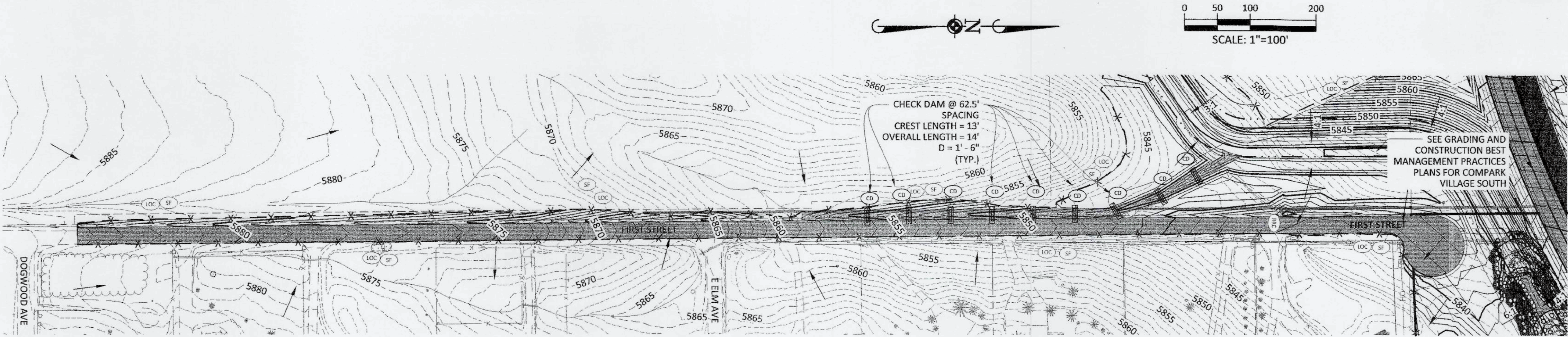
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PROJ. ASSOC.: BRS
DRAWN BY:
DATE: 07/2016

SHEET

3 OF 10

CLCPKC3.03

NOTE: TO REDUCE THE POTENTIAL FOR CLOGGING OF DEBRIS GRATES, NO STRAW MULCH SHALL BE USED WITHIN THE EXCESS URBAN RUNOFF VOLUME OF A DETENTION BASIN. INSTEAD, EROSION CONTROL BLANKET SHALL BE INSTALLED FOR A WIDTH OF AT LEAST 6-FEET ON BOTH SIDES OF THE CONCRETE LOW FLOW CHANNELS OR UP TO A DEPTH OF A 1-FOOT IN SOIL RIPRAP OR BENCHED LOW FLOW CHANNELS. ADDITIONALLY, HYDRAULICALLY-APPLIED WOOD FIBER MULCH, STABILIZED FIBER MATRIX, BONDED FIBER MATRIX, OR FLEXIBLE GROWTH MEDIUM SHALL BE USED IN ALL OTHER AREAS WITHIN THE EXCESS URBAN RUNOFF VOLUME OF THE DETENTION BASIN, THE BLANKET AND HYDRAULICALLY-APPLIED MULCH SHALL COMPLY WITH THE MATERIALS AND INSTALLATION REQUIREMENTS FOR EROSION CONTROL BLANKETS AS REQUIRED BY THE TOWN'S CBMP PROGRAM, AND WHERE APPLICABLE, THE PRODUCT MANUFACTURER.



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- BMP LEGEND**
- | | |
|-------|------------------------------|
| → | FLOW/SLOPE DIRECTION |
| □ | CWA CONCRETE WASHOUT AREA |
| ▤ | CD CHECK DAM |
| → | DD DIVERSION DITCH |
| ▨ | ECB EROSION CONTROL BLANKET |
| ▩ | IP INLET PROTECTION |
| ▧ | RRB REINFORCED ROCK BERM |
| ⊕ | SB SEDIMENT BASIN |
| ▩ | SCL SEDIMENT CONTROL LOG |
| ▩ | SM SEEDING AND MULCHING |
| — X — | SF SILT FENCE |
| ▩ | SSA STABILIZED STAGING AREA |
| ▩ | SR SURFACE ROUGHENING |
| ▩ | VTC VEHICLE TRACKING CONTROL |
| --- | LOC LIMITS OF CONSTRUCTION |
| --- | SA STOCKPILE AREA |
- BMP PHASING LEGEND**
- | | |
|---|-------------------------------|
| ⊕ | PROPOSED BMP FOR PHASE |
| ⊕ | EXISTING BMP FOR PHASE |
| ⊕ | REMOVE EXISTING BMP FOR PHASE |

- NOTES:**
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 - SHADED BMPs WERE INSTALLED IN INITIAL OR INTERIM GESC DRAWING UNLESS OTHERWISE NOTED, AND UNLESS OTHERWISE INDICATED SHALL BE LEFT IN PLACE UNTIL REVEGETATION ESTABLISHMENT IS APPROVED BY THE COUNTY.
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 - ANY SLOPES BETWEEN 3:1 AND 4:1 WILL REQUIRE THE USE OF EROSION CONTROL BLANKETS OR MECHANICALLY BONDED FIBER MATRIX.
 - SEE CONSTRUCTION PLANS FOR DETAILS OF PERMANENT DRAINAGE FACILITIES SUCH AS WATER QUALITY FACILITIES, CULVERTS, STORM DRAIN, INLETS, OUTLET PROTECTION, AND ROADWAY IMPROVEMENTS.
 - ACCEPTANCE OF THE POST-CONSTRUCTION PERMANENT BMPs WILL NOT OCCUR UNTIL ALL TRIBUTARIES TO THE POST-CONSTRUCTION PERMANENT BMPs ARE COMPLETE AND FINAL LANDSCAPE HAS BEEN ESTABLISHED.
 - EROSION CONTROL BLANKET SHALL BE USED IN AREAS WHERE 4:1 OR STEEPER SLOPE PREVAILS. COMPOST BLANKET SHALL NOT BE USED IN AREAS WHERE CONCENTRATED FLOW ROUTES OCCUR.
 - THESE MEASURES MAY BE MODIFIED WITH COUNTY INSPECTOR APPROVAL AS SITE CONDITIONS GOVERN. THIS MAY INCLUDE ELIMINATING CERTAIN EROSION CONTROL MEASURES IF THOSE MEASURES BECOME UNNECESSARY, OR ADDING ADDITIONAL EROSION CONTROL MEASURES IF THEY ARE NECESSARY.
 - SEDIMENTATION TRAPS & DIVERSION DITCHES SHALL BE INSTALLED ONCE FINAL GRADES ARE ACHIEVED WITHIN BLOCK AREAS.
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 - THESE IMPROVEMENTS ARE TO BE CONSTRUCTED AS A PART OF THE BELFORD/GREEN ACRES TRIBUTARY IMPROVEMENT PROJECT KNOWN AS COMPAK VILLAGE SOUTH FILING 1. SEE PLANS FOR MORE INFORMATION.
A) CONSTRUCTION ACCESS WILL BE MADE VIA PEORIA STREET. NO ACCESS VIA GRAND VIEW ESTATES.



ASSISTANT DIRECTOR OF DEVELOPMENT REVIEW

10/23/10

10/1/10

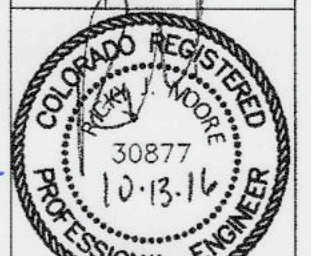
THESE CONSTRUCTION PLANS HAVE BEEN REVIEWED BY DOUGLAS COUNTY FOR GRADING, EROSION, SEDIMENT CONTROL, STREET AND DRAINAGE IMPROVEMENTS ONLY.

ENGINEERING DIVISION ACCEPTANCE BLOCK

DATE	REVISIONS	BY
10-12-16	REVISIONS PER DOUGLAS CO REVIEW	3
8-26-16	REVISIONS PER DOUGLAS COUNTY REVIEW	2
8-24-16	ADD ROADSIDE SWALE 312.17-25.37-44.66 PER DOUGLAS CO	1



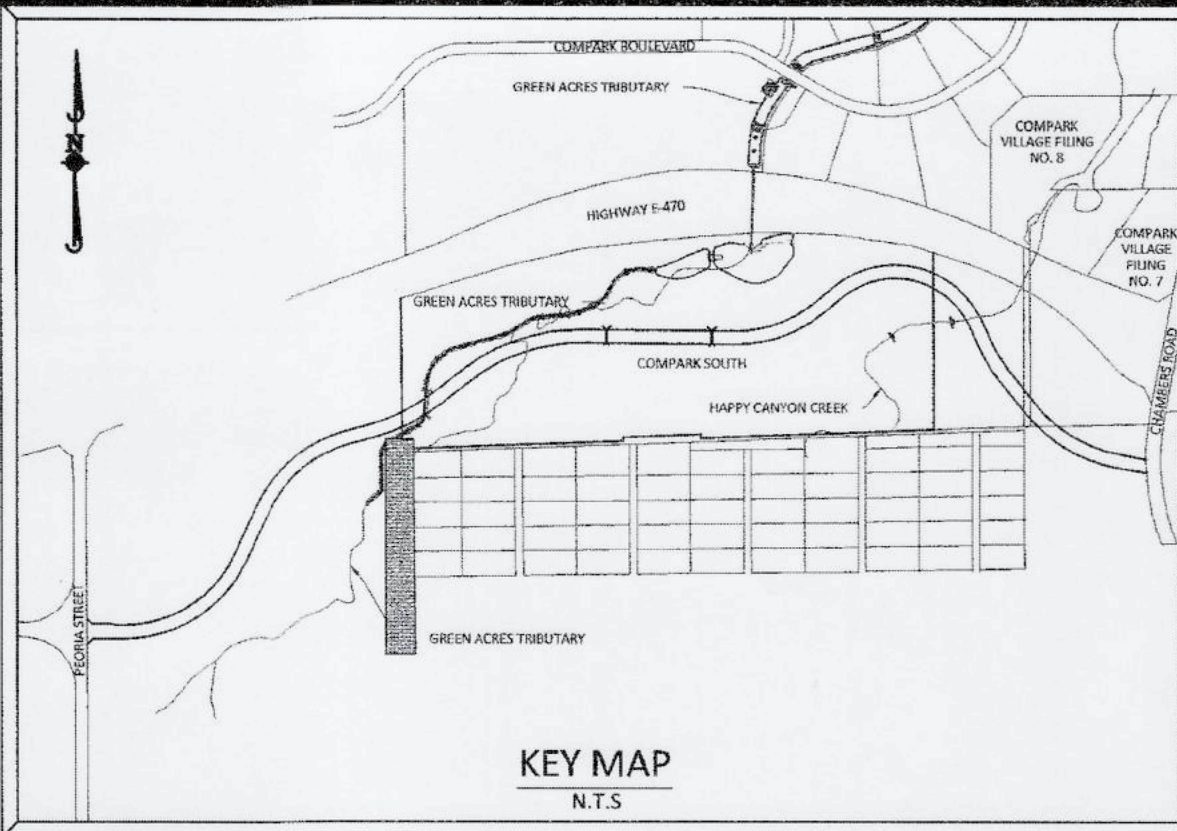
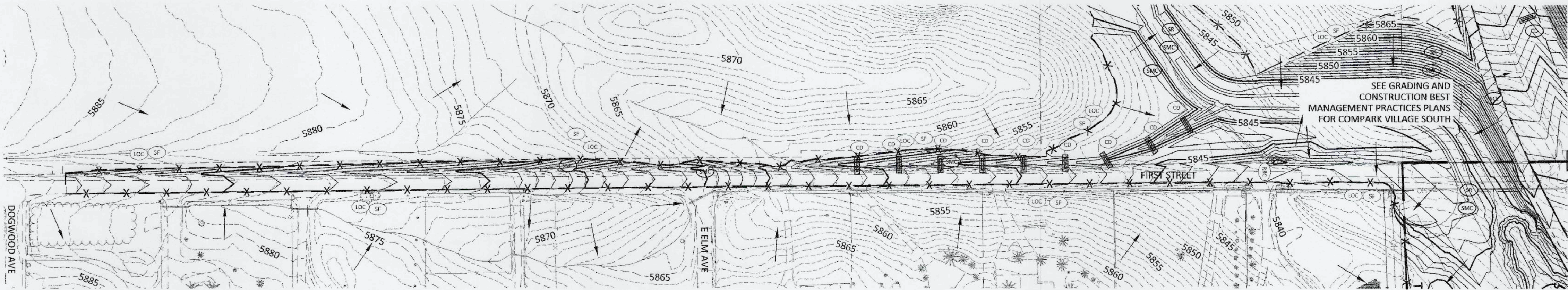
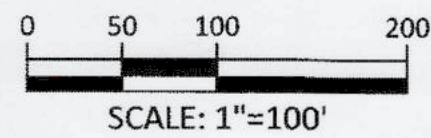
CVS FILING NO. 1 - FIRST STREET IMPROVEMENTS
DOUGLAS COUNTY, COLORADO
INTERIM GESC PLAN



PROJ. MGR.: RUM
PROJ. ASSOC.: BRB
DRAWN BY:
DATE: 07/2016

SHEET
4 OF 10
CLCPKC3.03

NOTE: TO REDUCE THE POTENTIAL FOR CLOGGING DEBRIS GRATES, NO STRAW MULCH SHALL BE USED WITHIN THE EXCESS URBAN RUNOFF VOLUME OF A DETENTION BASIN. INSTEAD, EROSION CONTROL BLANKET SHALL BE INSTALLED FOR A WIDTH OF AT LEAST 6-FEET ON BOTH SIDES OF THE CONCRETE LOW FLOW CHANNELS OR UP TO A DEPTH OF 1-FOOT IN SOIL RIPRAP OR BENCHED LOW FLOW CHANNELS. ADDITIONALLY, HYDRAULICALLY-APPLIED WOOD FIBER MULCH, STABILIZED FIBER MATRIX, BONDED FIBER MATRIX, OR FLEXIBLE GROWTH MEDIUM SHALL BE USED IN ALL OTHER AREAS WITHIN THE EXCESS URBAN RUNOFF VOLUME OF THE DETENTION BASIN. THE BLANKET AND HYDRAULICALLY-APPLIED MULCH SHALL COMPLY WITH THE MATERIALS AND INSTALLATION REQUIREMENTS FOR EROSION CONTROL BLANKETS AS REQUIRED BY THE TOWN'S CBMP PROGRAM, AND WHERE APPLICABLE, THE PRODUCT MANUFACTURER.



SOURCE BENCHMARKS:
DOUGLAS COUNTY BM 1.115010
A DOUGLAS COUNTY GIS MONUMENT SET IN CONCRETE LOCATED APPROXIMATELY 130 FEET SOUTHWESTERLY OF THE CENTERLINE OF CHAMBERS ROAD AND 95 FEET NORTHWESTERLY OF THE CENTERLINE OF COMPARK BOULEVARD. ELEVATION = 5752.84 (NAVD 88)

- BMP LEGEND**
- | | |
|--|----------------------------------|
| | FLOW/SLOPE DIRECTION |
| | CWA CONCRETE WASHOUT AREA |
| | CD CHECK DAM |
| | DD DIVERSION DITCH |
| | ECB EROSION CONTROL BLANKET |
| | IP INLET PROTECTION |
| | RRB REINFORCED ROCK BERM |
| | RRC RRB FOR CULVERT PROTECTION |
| | SB SEDIMENT BASIN |
| | SCL SEDIMENT CONTROL LOG |
| | SMC SEEDING, MULCHING & CRIMPING |
| | SF SILT FENCE |
| | SSA STABILIZED STAGING AREA |
| | SR SURFACE ROUGHENING |
| | VTC VEHICLE TRACKING CONTROL |
| | LOC LIMITS OF CONSTRUCTION |
| | SA STOCKPILE AREA |

- BMP PHASING LEGEND**
- | | |
|--|-------------------------------|
| | PROPOSED BMP FOR PHASE |
| | EXISTING BMP FOR PHASE |
| | REMOVE EXISTING BMP FOR PHASE |

NOTES:

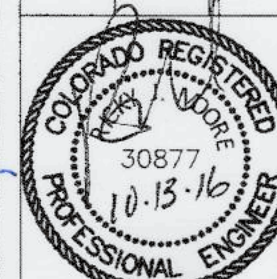
- SEE COVER SHEET OF DOUGLAS COUNTY STANDARD NOTES AND DETAILS (SHEET 8) FOR LEGEND OF BMP NAMES AND SYMBOLS.
- SHADED BMPs WERE INSTALLED IN INITIAL OR INTERIM GESC DRAWING UNLESS OTHERWISE NOTED, AND UNLESS OTHERWISE INDICATED SHALL BE LEFT IN PLACE UNTIL REVEGETATION ESTABLISHMENT IS APPROVED BY THE COUNTY.
- ALL INTERIM EROSION AND SEDIMENT CONTROL BMPs, INCLUDING DRILL SEEDING AND CRIMP MULCHING OF DISTURBED AREAS, MUST BE INSTALLED, INSPECTED, AND APPROVED BY THE COUNTY PRIOR TO THE ISSUANCE OF A RIGHT-OF-WAY USE AND CONSTRUCTION PERMIT FOR THE PURPOSE OF PAVING OR INSTALLATION OF CURB AND GUTTER.
- ANY SLOPES BETWEEN 3:1 AND 4:1 WILL REQUIRE THE USE OF EROSION CONTROL BLANKETS OR MECHANICALLY BONDED FIBER MATRIX.
- SEE CONSTRUCTION PLANS FOR DETAILS OF PERMANENT DRAINAGE FACILITIES SUCH AS WATER QUALITY FACILITIES, CULVERTS, STORM DRAIN, INLETS, OUTLET PROTECTION, AND ROADWAY IMPROVEMENTS.
- ACCEPTANCE OF THE POST-CONSTRUCTION PERMANENT BMPs WILL NOT OCCUR UNTIL ALL TRIBUTARIES TO THE POST-CONSTRUCTION PERMANENT BMPs ARE COMPLETE AND FINAL LANDSCAPE HAS BEEN ESTABLISHED.
- EROSION CONTROL BLANKET SHALL BE USED IN AREAS WHERE 4:1 OR STEEPER SLOPE PREVAILS. COMPOST BLANKET SHALL NOT BE USED IN AREAS WHERE CONCENTRATED FLOW ROUTES OCCUR.
- THESE MEASURES MAY BE MODIFIED WITH COUNTY INSPECTOR APPROVAL AS SITE CONDITIONS GOVERN. THIS MAY INCLUDE ELIMINATING CERTAIN EROSION CONTROL MEASURES IF THOSE MEASURES BECOME UNNECESSARY, OR ADDING ADDITIONAL EROSION CONTROL MEASURES IF THEY ARE NECESSARY.
- SEDIMENTATION TRAPS & DIVERSION DITCHES SHALL BE INSTALLED ONCE FINAL GRADES ARE ACHIEVED WITHIN BLOCK AREAS.
- DURING THE CONSTRUCTION PROCESS SUCH AS UTILITY INSTALLATION AND INDIVIDUAL LOT CONSTRUCTION. DIVERSION DITCHES SHALL BE MAINTAINED TO CONTROL RUNOFF AND SEDIMENT. SEDIMENT TRAPS SHALL BE MOVED UPSTREAM OF CONSTRUCTED LOTS.
- PERMANENT LANDSCAPING, OR APPROVED EROSION CONTROL MEASURES SHALL BE INSTALLED WITHIN CONSTRUCTED LOTS TO OBTAIN FINAL STABILIZATION.
- PRIOR TO PLACEMENT OF CONCRETE, A CONCRETE WASHOUT AREA SHALL BE LOCATED ONSITE.
- DOUGLAS COUNTY RESERVES THE RIGHT TO REQUIRE ADDITIONAL OR DIFFERENT BMP MEASURES AT THE DISCRETION OF THE DOUGLAS COUNTY INSPECTOR TO ADDRESS ANY EROSION AND/OR SEDIMENT ISSUES RESULTING FROM CONSTRUCTION.
- THESE IMPROVEMENTS ARE TO BE CONSTRUCTED AS A PART OF THE BELFORD/GREEN ACRES TRIBUTARY IMPROVEMENT PROJECT KNOWN AS COMPARK VILLAGE SOUTH FILING 1. SEE PLANS FOR MORE INFORMATION.
- CONSTRUCTION ACCESS WILL BE MADE VIA PEORIA STREET. NO ACCESS VIA GRAND VIEW ESTATES.



10/23/19
10/2/16
ASSISTANT DIRECTOR OF DEVELOPMENT REVIEW

THESE CONSTRUCTION PLANS HAVE BEEN REVIEWED BY DOUGLAS COUNTY FOR GRADING, EROSION, SEDIMENT CONTROL, STREET AND DRAINAGE IMPROVEMENTS ONLY.
ENGINEERING DIVISION ACCEPTANCE BLOCK

CVS FILING NO. 1 - FIRST STREET IMPROVEMENTS
DOUGLAS COUNTY, COLORADO
FINAL GESC PLAN

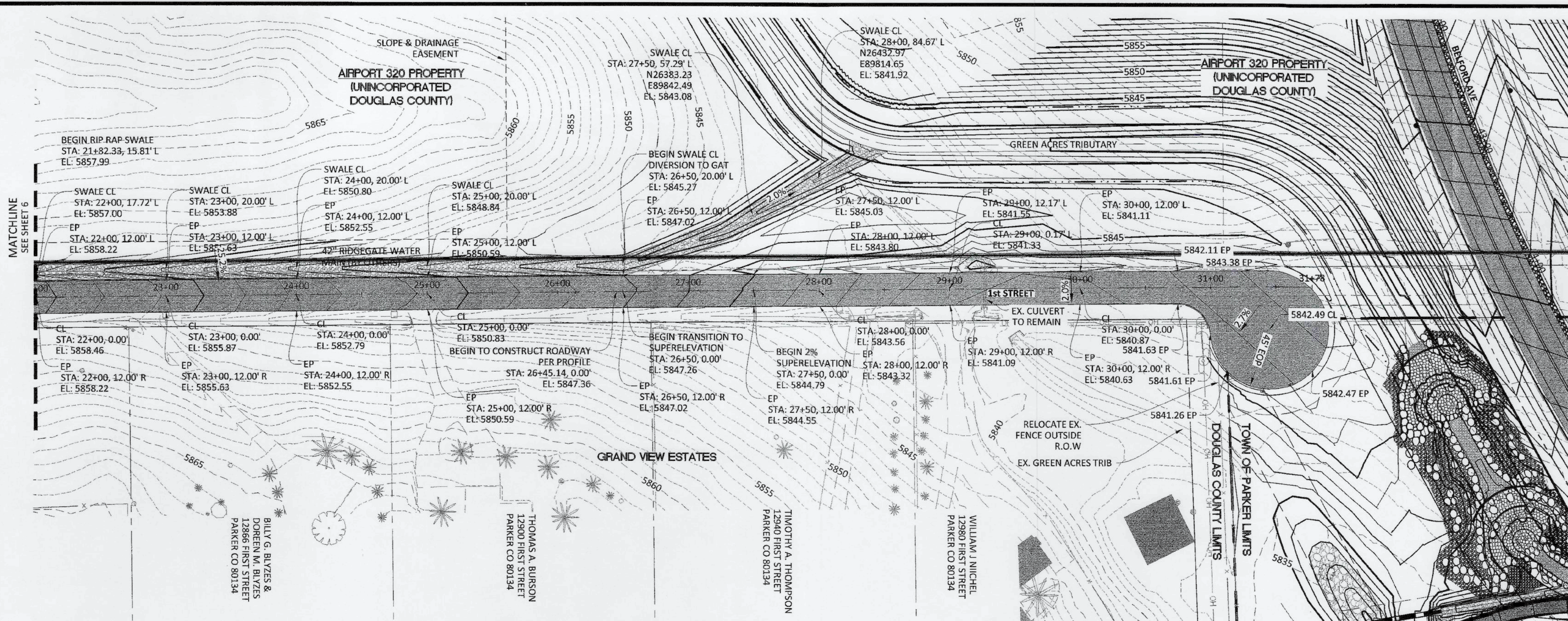


PROJ. MGR.: RJM
PROJ. ASSOC.: BRB
DRAWN BY:
DATE: 07/2016
SHEET
5 OF 10
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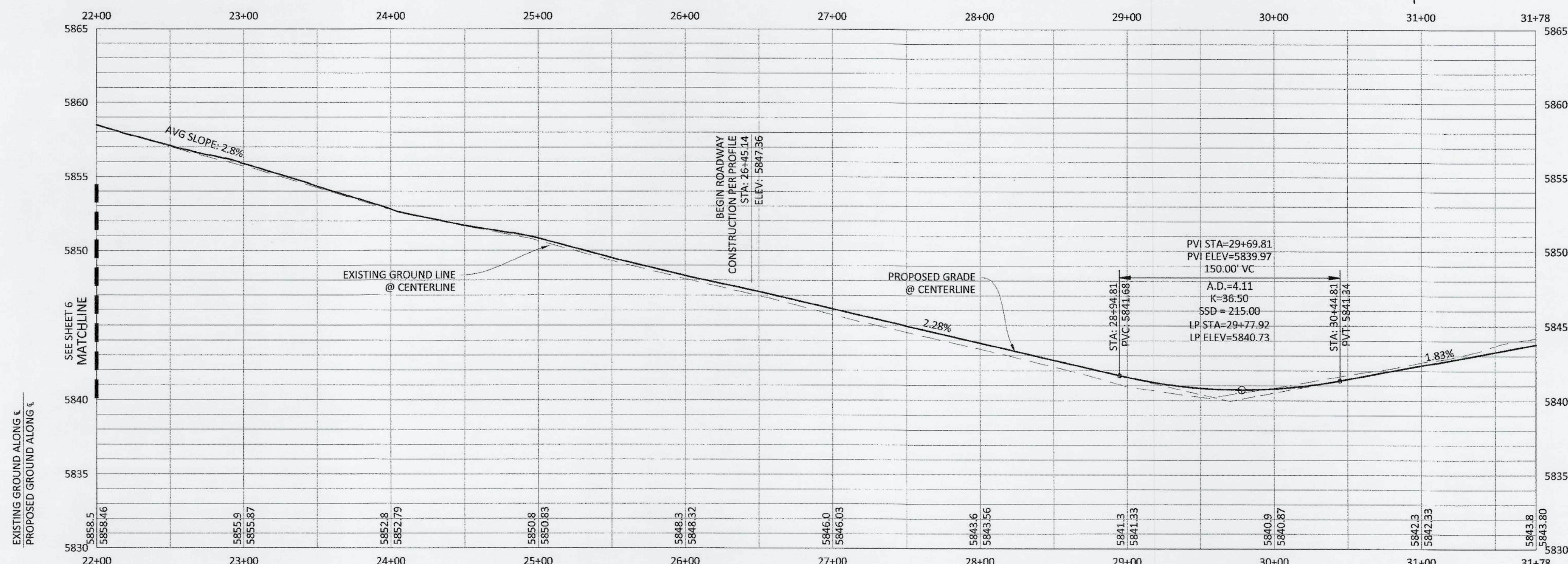
DATE	REVISIONS
10-12-15	REVISIONS PER DOUGLAS COUNTY REVIEW
9-26-16	REVISIONS PER DOUGLAS COUNTY REVIEW
8-24-16	ADD ROADSIDE SWALE STA 27+50-31+44.66 PER DOUGLAS CO

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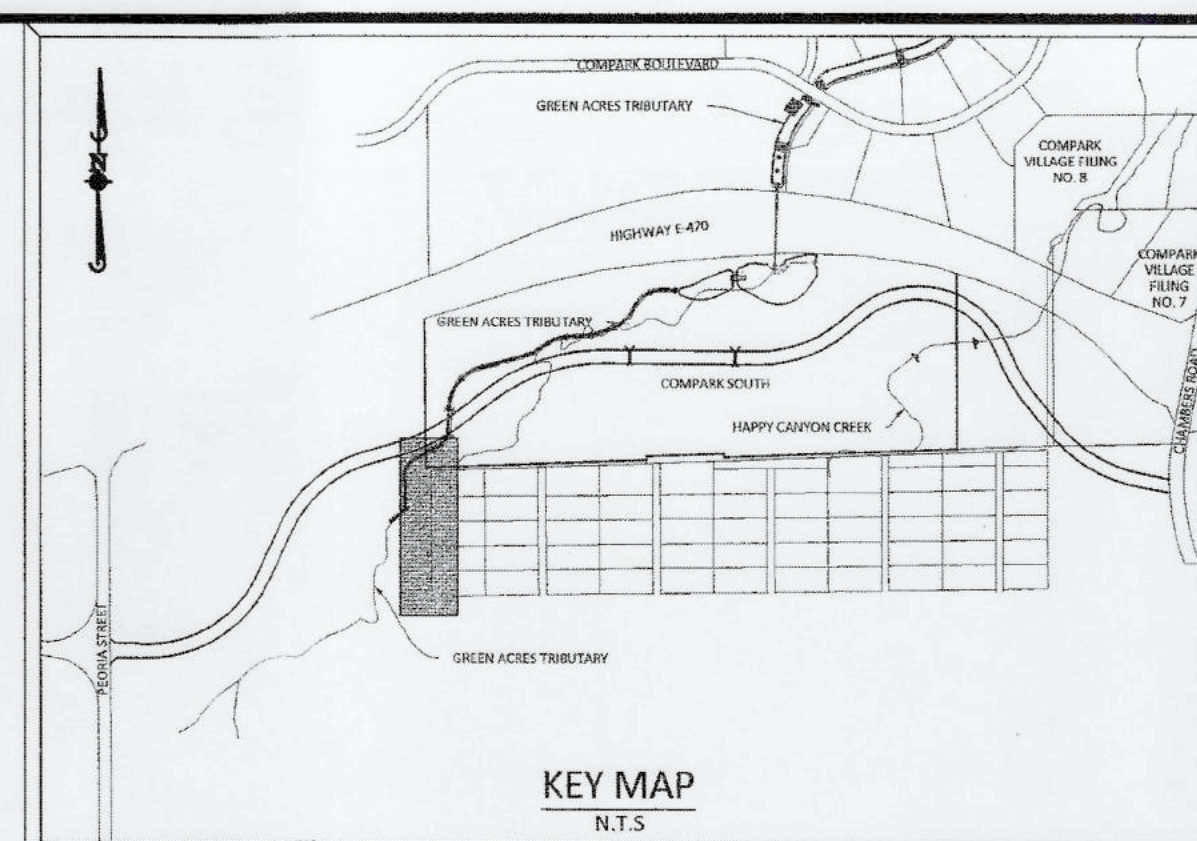
PLAN: FIRST STREET



PROFILE: FIRST STREET

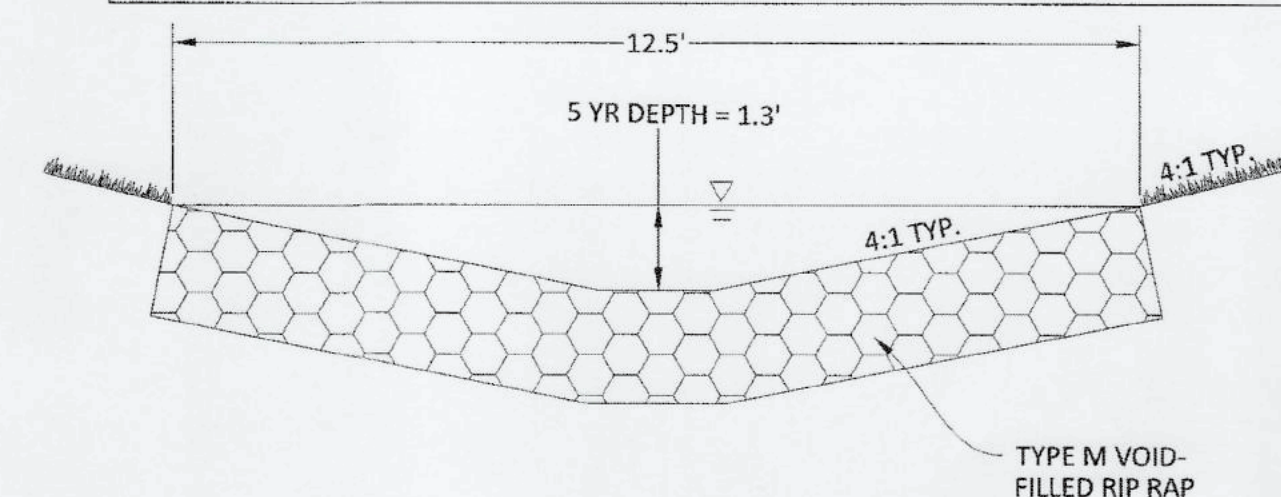
NOTES:

- 1) REFER TO GENERAL NOTES ON SHEET 2 FOR ALL APPLICABLE CONSTRUCTION STANDARDS & MASTER LEGEND
- 2) ALL STATIONING IS CENTERLINE UNLESS OTHERWISE NOTED. REFER TO FINAL PLAN FOR RIGHT-OF-WAY AND CENTERLINE DIMENSIONS AND HORIZONTAL CONTROL.
- 3) REFER TO STONEGATE VILLAGE METRO DISTRICT APPROVED WATER AND SANITARY SEWER CONSTRUCTION PLANS FOR ALL PROPOSED WATER AND SANITARY SEWER LOCATIONS.
- 4) CONTRACTOR TO MEET & MATCH EXISTING GRADES AT DRIVEWAYS & STREET INTERSECTIONS.



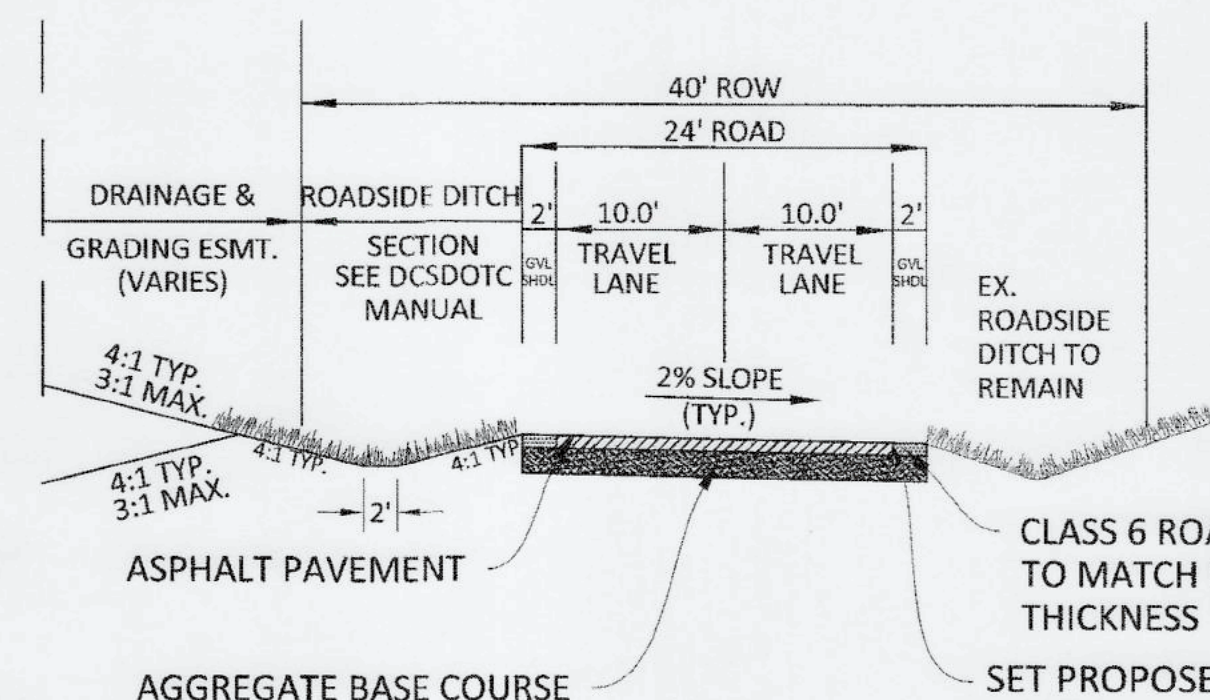
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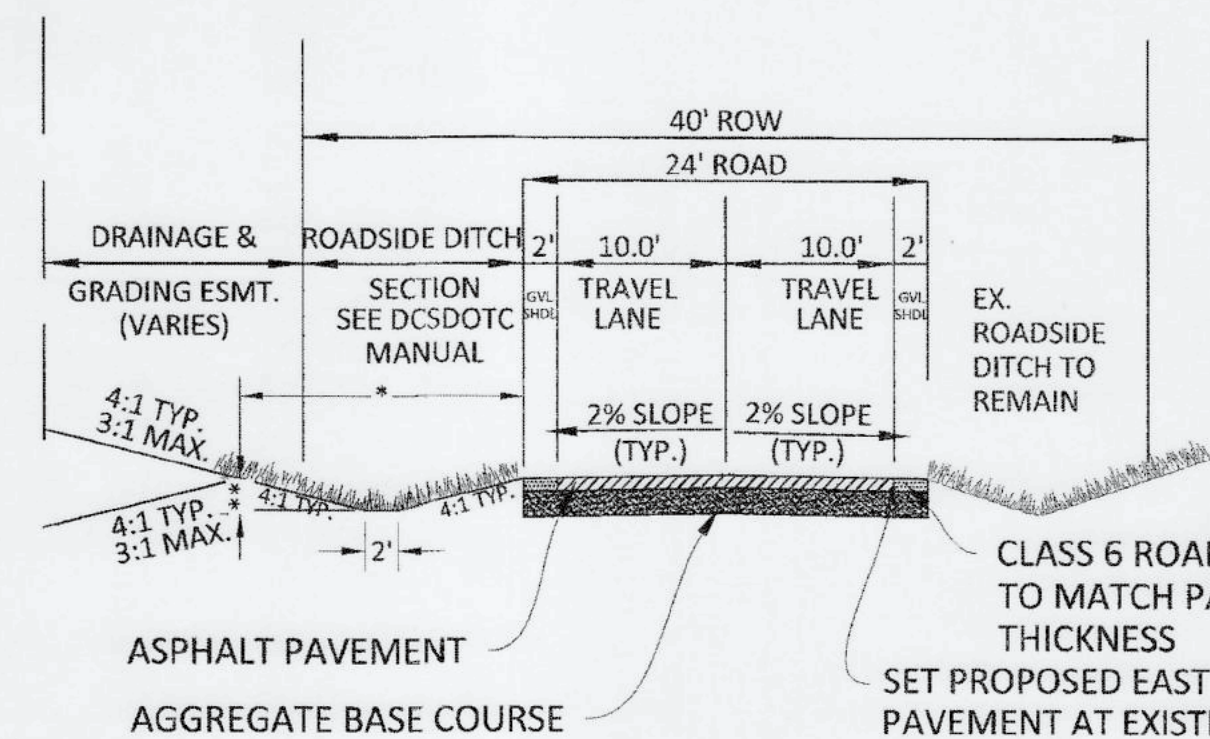
RIP RAP SWALE

N.T.S.



RURAL LOCAL

PROPOSED CONDITION
STA 26+50 - STA 31+00



RURAL LOCAL

PROPOSED CONDITION
STA 10+79.6 - STA 26+50



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30877
10-13-16
10/23/19
ASSISTANT DIRECTOR OF DEVELOPMENT REVIEW

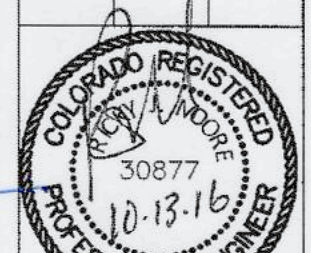
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ONLY.

ENGINEERING DIVISION ACCEPTANCE BLOCK

DATE	REVISIONS
10-23-16	1. REVISIONS PER DOUGLAS CO REVIEW
9-26-16	2. REVISIONS PER DOUGLAS COUNTY REVIEW
8-22-16	3. ADD RIGID SWALE STA 27+00-31+44.66 PER DOUGLAS CO

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CVS FILING NO. 1 - FIRST STREET IMPROVEMENTS
DOUGLAS COUNTY, COLORADO
FIRST STREET P&P



PROJ. MGR.: RJM
PROJ. ASSOC.: BRB
DRAWN BY:
DATE: 07/2016
SHEET
7 OF 10
CLCPC3.03

