### Oversight / NHS FHWA REGION VIII OVERSIGHT? □ NO □ YES NATIONAL HIGHWAY SYSTEM? ■ NO □ YES

# **DEPARTMENT OF TRANSPORTATION STATE OF COLORADO**

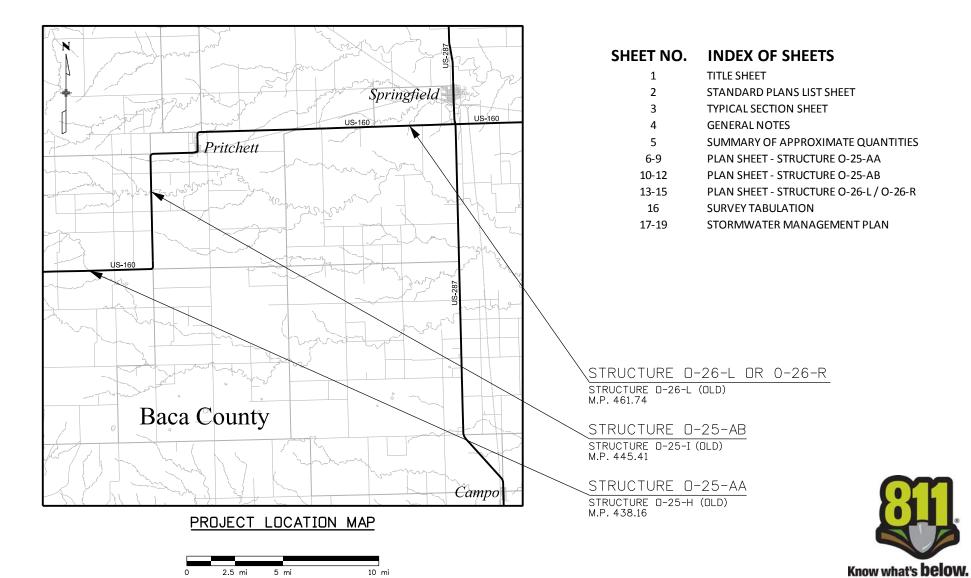
P.E. UNDER PROJECT:
Project NumberFBR 1604-010, FBR 1604-011
Project Code: 18321 R.O.W. Projects:
R.O.W. Project Description XXXXXXXXXXXXXX

Related Projects:

HIGHWAY CONSTRUCTION BID PLANS OF PROPOSED FEDERAL AID PROJECT NO. FBR 1604-010, FBR 1604-011 STATE HIGHWAY NO. 160C **BACA COUNTY** CONSTRUCTION PROJECT CODE NO. 18321

TABULATION OF LENGTH AND DESIGN DATA				
	FEET			
LOCATION	ROADWAY	MAJOR		
	SH 160C	STRUCTURE		
BEGIN ROADWAY, R.P. 438.10	480			
BEGIN STRUCTURE NO. O-25-AA, R.P. 438.19	400	40		
END STRUCTURE NO. O-25-AA, R.P. 438.20	520	40		
END ROADWAY, R.P. 438.30	320			
BEGIN ROADWAY, R.P. 445.39	200			
BEGIN STRUCTURE NO. O-25-AB, R.P. 445.46	380	130		
END STRUCTURE NO. O-25-AB, R.P. 445.48	380	150		
END ROADWAY, R.P. 445.55	360			
BEGIN ROADWAY, R.P. 461.79	250			
BEGIN STRUCTURE NO. O-26-R, R.P. 461.84	250	27		
END STRUCTURE NO. O-26-R, R.P. 461.85	250			
END ROADWAY, R.P. 461.90	250			
TOTAL	2260	197		
SUMMARY OF PROJECT LENGTH	FEET	MILES		
ROADWAY (NET LENGTH)	2260	0.43		
MAJOR STRUCTURE	197	0.04		
PROJECT GROSS LENGTH	2457	0.47		

		SH 160C		
DESIGN DATA	STR O-25-AA	STR O-25-AB	STR O-26-R	
	R.P. 438.1	R.P. 445.4	R.P. 461.7	
MINIMUM RADIUS OF CURVE		1660'		
MAXIMUM GRADE		3%		
MINIMUM S.S.D. VERTICAL	645'			
MAXIMUM DESIGN SPEED	65 MPH			
2010 DESIGN TRAFFIC	ADT = 130	ADT = 410	ADT = 770	
	DHV = 17	DHV = 49	DHV = 92	
2030 DESIGN TRAFFIC	ADT = 198	ADT = 625	ADT = 1019	
	DHV = 26	DHV = 75	DHV = 122	
DHV TRUCK %	19.40%	28.70%	14.50%	
CLEAR ZONE DISTANCE (TANGENT)	20'		28'	
CLEAR ZONE DISTANCE (1660' MIN. RADIUS)	28' 39'		39'	
CONSTRUCTION CLEAR ZONE (MIN 18')	18'			



Print Date: 11/8/2011 Sheet Revisions File Name: 18321DES\_TitleSht.dgn Date: Horiz. Scale: 1:1 Vert. Scale: As Noted (R-X) Unit Information Unit Leader Initials **ATKINS** 

Comments Init. Colorado Department of Transportation DEPARTMENT OF

DOT	2402 South Main Lamar, CD 81052 Phone: 719-336-3228	FAX: 719-336-4101
Region 2		PAW

As Constructed	Contract Information	Project No./Code	
7.6 0011011 00100	Contractor:	•	
=	Contractor.	FBR 1604-010,	
No Revisions:	Resident Engineer:	FBR 1604-011	
Revised:	Project Engineer:	18321	
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PLAN NUMBER	NEW REVIS		M STANDARD TITLE	PAGE NUMBER
□ M-100-1			_S (3 SHEETS)	
☐ M-203-1				
☐ M-203-2		DITCH TYPES		5
□ M-203-11		SUPERELEVATION OF	CROWNED AND(3 SHEETS)	6-8
□ M-203-12	<u> </u>	SUPERELEVATION :	STREETS (2 SHEETS)	9-10
□ M-206-1		EXCAVATION AND (2 SHEETS)	BACKFILL FOR STRUCTURES	11-12
<b>□</b> M-206-2		EXCAVATION AND	BACKFILL FOR BRIDGES (2 S	SHEETS) 13-14
M-208-1		TEMPORARY EROSI	ON CONTROL (12 SHEETS) (R	EVISED ON LY 29, 2011) <del>15 21</del>
☐ M-210-1		MAILBOX SUPPORT	S (2 SHEETS)	22-23
□ M-214-1		PLANTING DETAILS		24
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<b>□</b> M-510-1		STRUCTURAL PLAT	E PIPE H-20 LOADING	30
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M-603-4		CORRUGATED POL'	YETHYLENE PIPE (AASHTO M	294) (REV. ON FEB. 25, 2010)
M-603-5		POLYVINYL CHLOR	IDE (PVC) PIPE (AASHTO M3	(NEW ON FEB. 25, 2010)
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□ M-604-2	5		T (5 SHEETS)	
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□ M-606-13			7 F-SHAPE BARRIER (4 SHEI	
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M STANDARD

PAGE

PLAN

NUMBER

S-612-1

NEW OR

REVISED

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

□ S-614-1 **□** S-614-2 **□** S-614-3 S-614-4 □ S-614-5 BREAK-AWAY SIGN SUPPORT DETAILS ......143-144 FOR GROUND SIGNS (2 SHEETS) **□** S-614-6 CONCRETE FOOTINGS AND SIGN ISLANDS ...... 145-146 FOR CLASS III SIGNS (2 SHEETS) TUBULAR STEEL SIGN SUPPORT DETAILS (5 SHEETS). (REVISED 14.7 151 SEPT. 01, 2010) S-614-8 ☐ S-614-10 S-614-11 MILEPOST SIGN DETAIL FOR HIGH SNOW AREAS (NEW, JUNE 22, 2009) □ S-614-12 FLASHING BEACON AND SIGN INSTALLATIONS (3 SHEETS) . 154-156 □ S-614-14 □ S-614-20 S-614-21 CONCRETE BARRIER SIGN POST INSTALLATIONS (REVISED ON JUNE 24, 2011) 158 **□** S-614-22 □ S-614-40 TYPICAL TRAFFIC SIGNAL INSTALLATION DETAILS ...... 160-166 □ S-614-40A ALTERNATIVE TRAFFIC SIGNAL INSTALLATION DETAILS .... 167-171 □ S-614-50 MONOTUBE OVERHEAD SIGNS (14 SHEETS)...... 172-185 S-627-1 ■ PAVEMENT MARKINGS (5 SHEETS) (REVISED ON OCTOBER 01, 2010) .... 186 190 TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION (REVISED ON) 191 202 (<del>12</del> 19 SHEETS) **□** S-630-2 BARRICADES, DRUMS, CONCRETE BARRIERS (TEMP).....203 AND VERTICAL PANELS S-630-3 STEEL SIGN SUPPORT (TEMPORARY) INSTALLATION DETAILS.. (NEW, ARCH 22, PORTABLE RUMBLE STRIPS (TEMPORARY)......(NEW, MAY 05, 2011) ■ EMERGENCY PULL-OFF AREA (TEMPORARY)......(NEW, MAY 05, 2011) ROLLING ROADBLOCKS FOR TRAFFIC CONTROL ...... (NEW, MAY 05, 2011) S-630-7

S STANDARD

TITLE

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NUMBER

COLORADO
DEPARTMENT OF TRANSPORTATION
STANDARD PLANS LIST
M&S STANDARDS
July 04, 2006
Revised on July 29, 2011

Print Date: 11/8/2011
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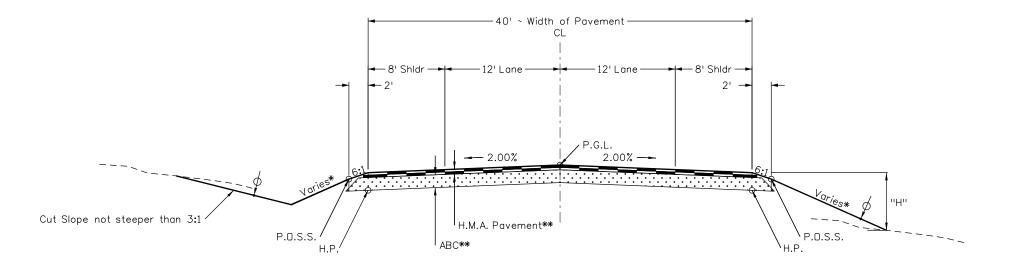
Colorado	Department of	Transportation
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Region 2

	2402 South Main Lamar, CO 81052	
N	Phone: 719-336-3228	FAX: 719-336-4101
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As Constructed	STANDARD PLAN LIST		DI ANI	LANLICT		Project No./Code	
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P.G.L. ~ Profile Grade Line H.M.A. ~ Hot Mix Asphalt H.P. ~ Hinge Point P.D.S.S. ~ Point of Slope Selection ~ Minimum 4" Topsoil or Accepted Alternative



Region 2

### \*SLOPE SELECTION

Structure 0-25-AA, MP 438.16 = 4:1, MAX. Structure 0-25-AB, MP 445.41 = 3:1, MAX. Structure 0-26-L DR 0-26-R, MP 461.74 = 4:1, MAX.

# \*\* PAVEMENT DESIGN

Structure 0-25-AA, MP 438.16 = 4.5" HMA - TOP LAYER 2" SX(75)(PG 64-22) BOTTOM LAYER 2.5" S(75)(PG 64-22) 8" ABC (CLASS 6)

Structure 0-25-AB, MP 445.41 = 5.5" HMA - TOP LAYER 2.5" SX(75)(PG 64-22) BOTTOM LAYER 3" S(75)(PG 64-22) 11" ABC (CLASS 6)

Structure O-26-L OR O-26-R, MP 461.74 = 5" HMA - TOP LAYER 2.5" SX(75)(PG 64-22) BOTTOM LAYER 2.5" S(75)(PG 64-22) 9" ABC (CLASS 6)

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FULL DEPTH OF ALL EMBANKMENTS, BASES OF CUTS AND FILLS 6 INCHES, FULL DEPTH OF EMBANKMENT SECTIONS USED FOR DITCHES AND CHANNEL CHANGES

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.

TYPE OF COMPACTION FOR THIS PROJECT WILL BE AS FOLLOWS UNLESS OTHERWISE SPECIFIED IN THE PLANS.

ITEM 203 - AASHTO T-99 ITEM 206 & 304 ABC (CLASS 6) – AASHTO T-180.

THE CONTRACTOR SHALL NOT PARK ANY VEHICLES OR EQUIPMENT IN, OR DISTURB ANY AREAS NOT APPROVED BY THE ENGINEER.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A CONSTRUCTION STAGING AREA.

PUBLIC APPROACHES AND ENTRANCES TO BUILDING OR RESIDENCES SHALL BE PAVED 50 FEET OUT FROM THE EDGE OF SHOULDER OR TO THE RIGHT-OF-WAY LINE, WHICHEVER IS LESS. FIELD ENTRANCES SHALL BE PAVED 4 FEET OUT FROM THE EDGE OF SHOULDER.

PAVEMENT SMOOTHNESS CATEGORY SHALL BE HRI CATEGORY II.

WHERE NEW PAVEMENT IS TO ABUT EXISTING PAVEMENT, THE EXISTING PAVEMENT SHALL BE REMOVED TO A NEAT VERTICAL LINE USING A CUTTING SAW OR OTHER METHOD AS APPROVED BY THE ENGINEER. SAW CUTTING ASPHALT WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF REMOVAL OF THE WORK.

THE CONTRACTOR SHALL PROVIDE A CERTIFIED SCALE AND CERTIFIED WEIGHER AT THE POINT OF LOADING FOR ALL AGGREGATES, CEMENT, FLY ASH, AND WATER DELIVERED TO THE PROJECT. A CERTIFIED TICKET SHALL BE PROVIDED FOR EACH LOAD OF MATERIAL DELIVERED TO THE PROJECT. THE TICKET SHALL SHOW GROSS, TARE, AND NET WEIGHTS. THE CONTRACTOR SHALL NOT DELIVER ANY LOAD EXCEEDING THE LEGAL WEIGHT LIMIT. DELIVERY OF ANY OVERWEIGHT LOADS MAY RESULT IN WITHHOLDING OF MONTHLY PAYMENT FOR THE RELATED ITEM.

BASED ON SIGHT DISTANCE AND OTHER CONSIDERATIONS, ADDITIONAL TRAFFIC CONTROL DEVICES MAY BE REQUIRED AND LOCATION IS SUBJECT TO THE APPROVAL OF THE ENGINEER.

THE CONTRACTOR SHALL KEEP THE WORK AREA FREE OF STANDING WATER AND SHALL KEEP THE EXCAVATION AREAS FREE FROM STORMWATER RUNOFF. THE CONTRACTOR SHALL BEAR ALL COSTS FOR REPAIR DUE TO NOT MEETING THESE REQUIREMENTS.

Sheet Revisions

THE MINIMUM THICKNESS OF TOPSOIL SHALL BE 4 INCHES. TOPSOIL SHALL BE PLACED PER SECTION 207. WATER SHALL BE USED TO PROVIDE CONSOLIDATION OF THE TOPSOIL.

ALL DRAINAGE STRUCTURES SHALL BE FREE OF DEBRIS AND SILT PRIOR TO PROJECT COMPLETION. THE STRUCTURE INLETS AND OUTLETS SHALL BE GRADED TO A NEAT APPEARANCE. THE CONTRACTOR SHALL ROUND ALL BREAKPOINTS AND DITCH BOTTOMS AND ENSURE DRAINAGE ON ALL DITCHES. THIS WORK SHALL BE INCLUDED IN THE COST OF THE PROJECT.

SEVERITY OF POTENTIAL SULFATE EXPOSURE SHALL BE CLASS 0 FOR THIS PROJECT. THE CONTRACTOR MAY, AT ITS OWN EXPENSE, HAVE A CERTIFIED LABORATORY TEST THE SUBGRADE PER THE FIELD MATERIAL MANUAL. TESTING SHALL BE AT THE SAME SCHEDULE AND FREQUENCY AS REQUIRED FOR A PRELIMINARY SOIL SURVEY. THE CONTRACTOR MAY PROPOSE A DIFFERENT CLASS OF SULFATE EXPOSURE FOR THE PROJECT BASED ON THOSE TEST RESULTS.

WATER SHALL BE USED AS A DUST PALLIATIVE WHERE REQUIRED. LOCATIONS SHALL BE DIRECTED BY THE ENGINEER. COST SHALL BE INCLUDED IN THE WORK.

THE CONTRACTOR SHALL CALL THE UTILITY NOTIFICATION CENTER OF COLORADO (UNCC) AT 811 FOR UTILITY LOCATIONS AT LEAST 3 WORKING DAYS, NOT INCLUDING THE DAY OF INITIAL CONTACT, PRIOR TO ANY DIGGING.

THE UTILITY LOCATIONS SHOWN IN THE PLANS WERE OBTAINED FROM THE BEST AVAILABLE DATA AT THE TIME OF THE SURVEY. THE CONTRACTOR SHALL POTHOLE TO VERIFY LOCATIONS OF UTILITIES PRIOR TO EXCAVATION ACTIVITIES.

ALL SURVEYING NECESSARY TO COMPLETE THE PROJECT WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE WORK.

THE CONTRACTOR SHALL PROTECT ALL EXISTING SURVEY MONUMENTATION DESIGNATED TO REMAIN FROM DAMAGE DURING CONSTRUCTION OPERATIONS. ANY MONUMENTS DISTURBED BY THE CONTRACTOR THAT ARE NOT DESIGNATED FOR RELOCATION, SHALL BE RESET AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR AND ENGINEER SHALL NOTE THOSE MONUMENTS IN THE FIELD PRIOR TO CONSTRUCTION. SEE TABULATION OF SURVEY.

IT IS ESTIMATED THAT 1 FIELD OFFICE (CLASS 2), 1 FIELD LABORATORY (CLASS 2), AND 2 SANITARY FACILITIES WILL BE REQUIRED ON THIS PROJECT.

THIS PROJECT IS CLASSIFIED AS NON-SIGNIFICANT. THE TRANSPORTATION MANAGEMENT PLAN (TMP) SHALL CONSIST OF A TRAFFIC CONTROL PLAN (TCP) AND PUBLIC INFORMATION (PI) REQUIREMENTS.

#### **UTILITY CONTACT LIST:**

UTILITY	CONTACT	NUMBER
GAS (ATMOS ENERGY)	TOM FLESHNER	620-353-0127
ELECTRIC (SOUTH EAST COLORADO POWER)	ERIC LESH	719-336-3236
TELEPHONE (CENTURY LINK)	ART ROYBALL	719-336-0029

Know what's **below**.

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Unit Information	Unit Leader Initials
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7 2402 South Main Lamar, CO 81052 Phone: 719-336-3228 FAX: 719-336-410

Colorado Department of Transportation

Region 2

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	620-00012 Field Laboratory (Class 2)	EACH	1									1	
	620-00020 Sanitary Facility	EACH	3									3	
	626-00000 Mobilization	LS	1									1	
	631-00100 Highway Design & Construction 0-25-H	LS	1									1	
	631-00100 Highway Design & Construction 0-25-1	LS	1									1	
	631-00100 Highway Design & Construction 0-26-L	L S	1									1	
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	700-70011 F/A Partnering	FA	1									1	
	700-70012 F/A Asphalt Pavement Incentive	FA	1									1	
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	700-70019 F/A Asphalt Cement Cost Adjustment	FA	1									1	
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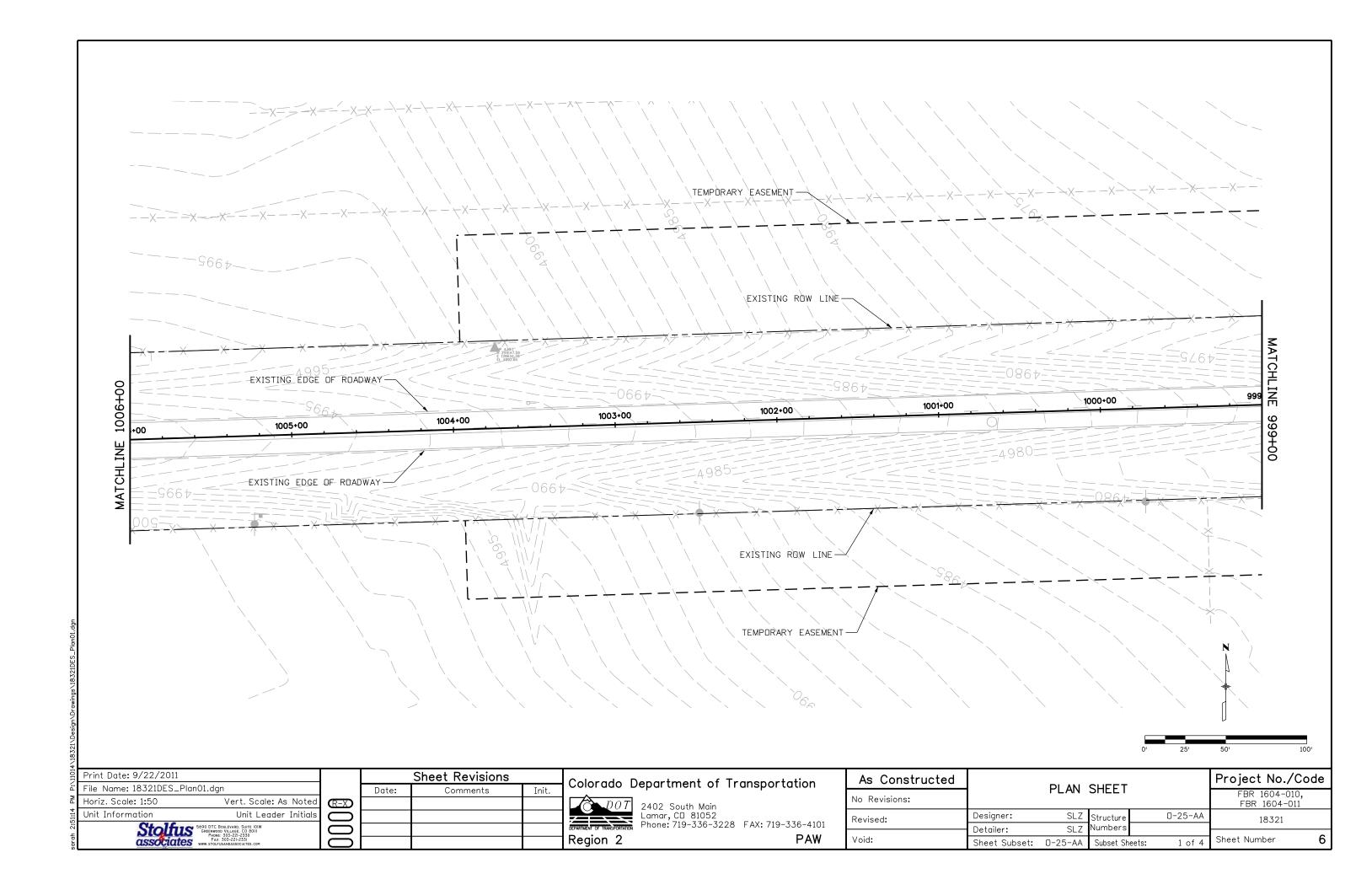
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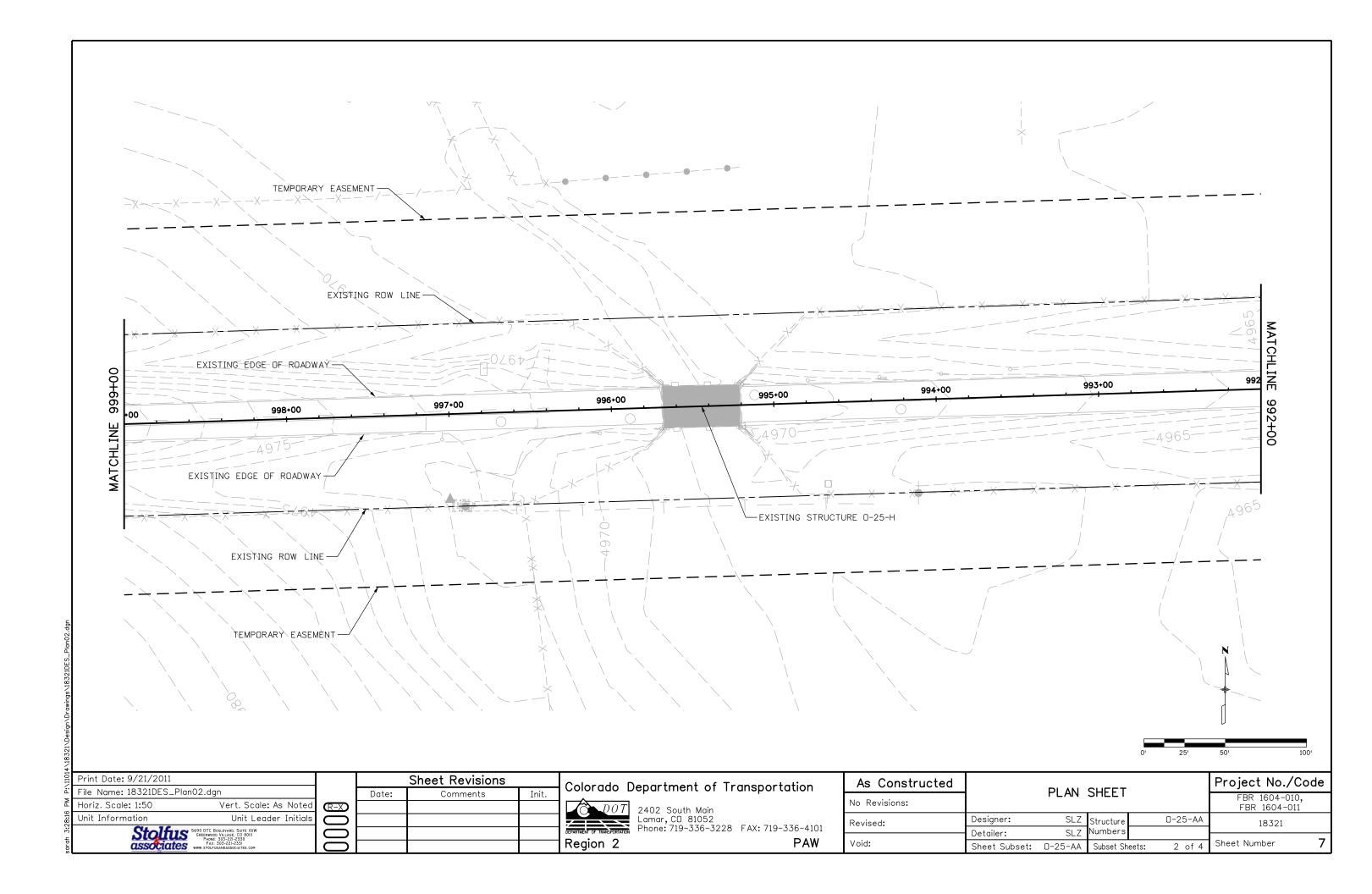
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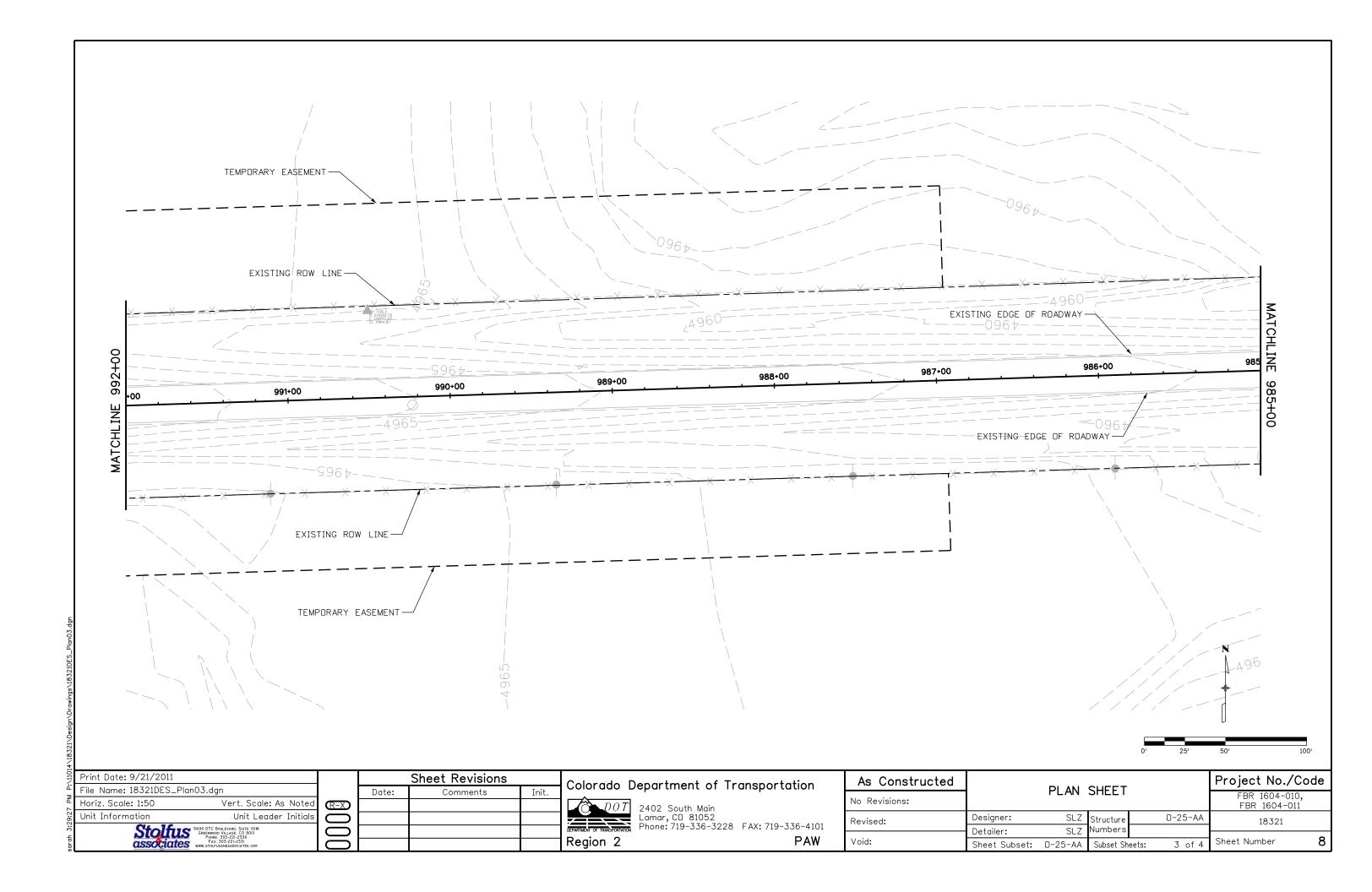
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1	Region 2

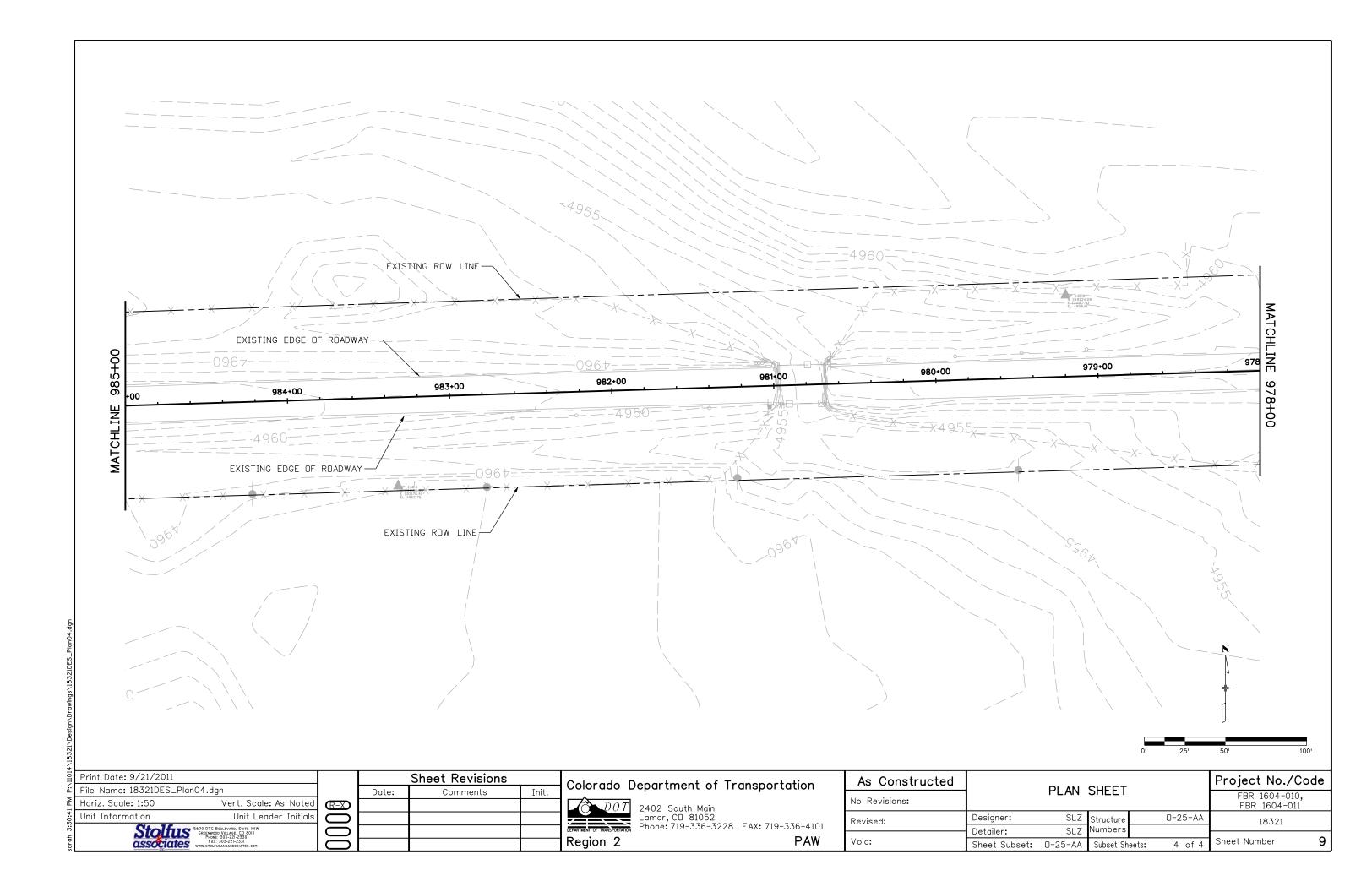
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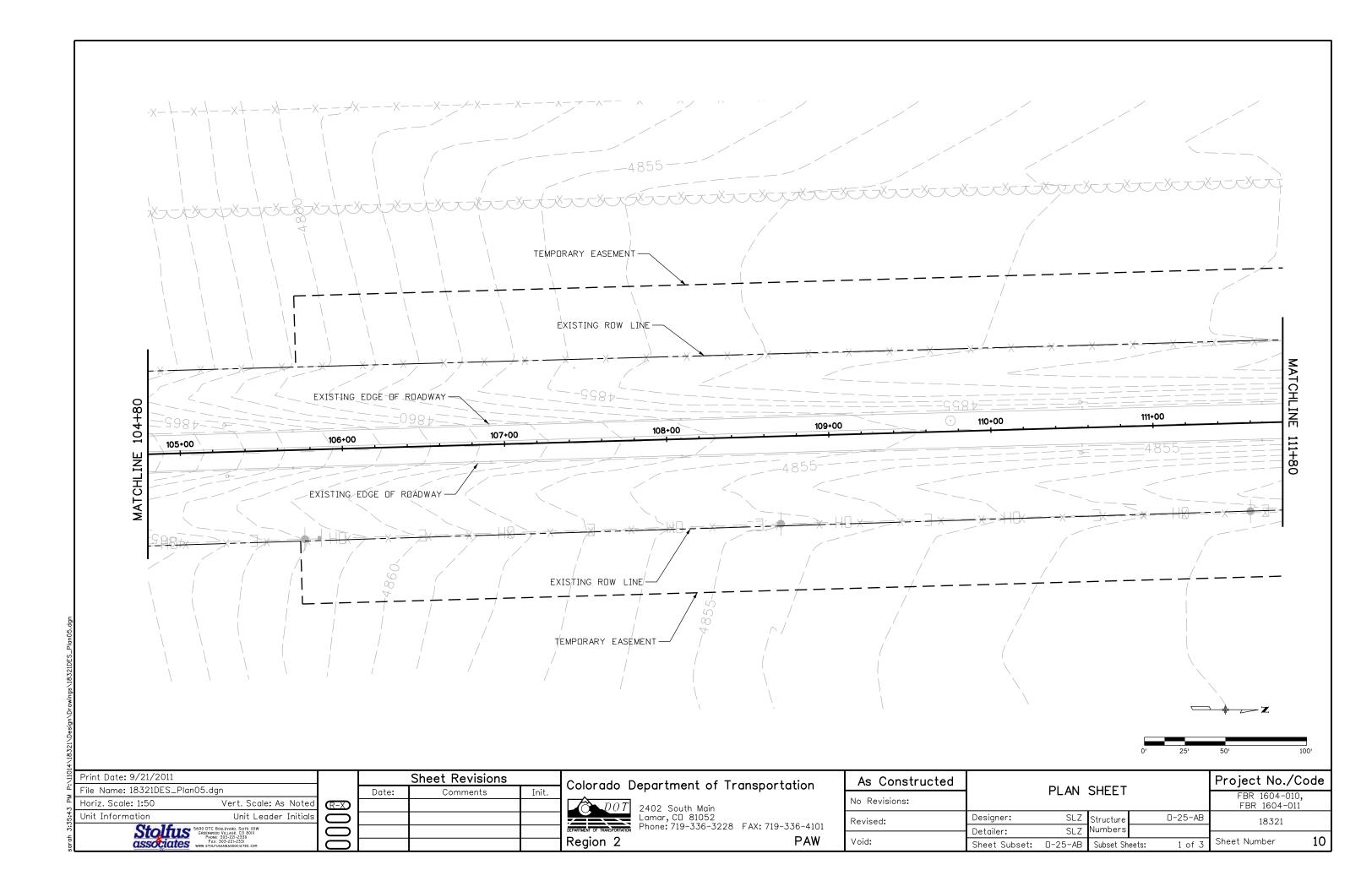
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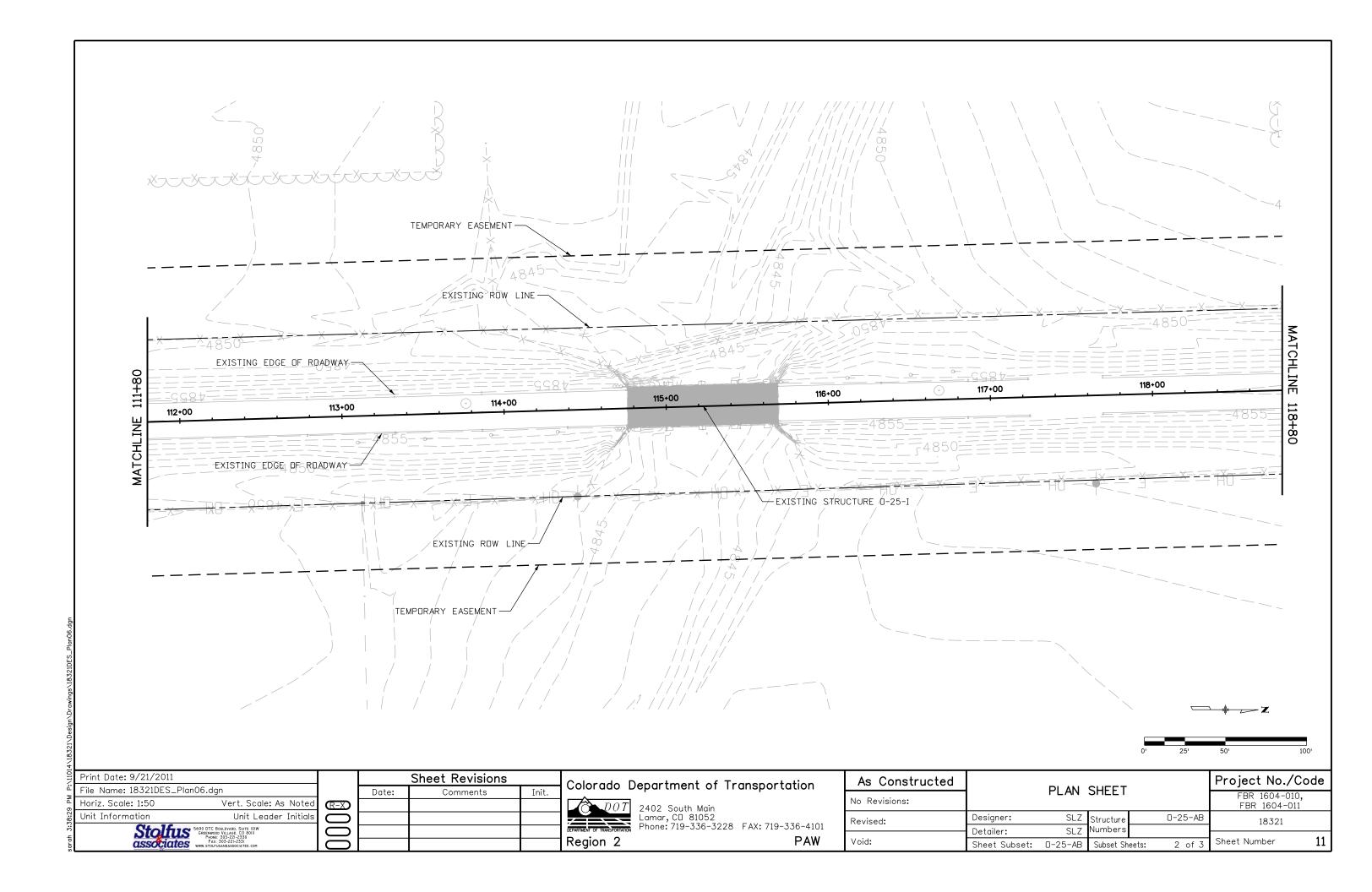


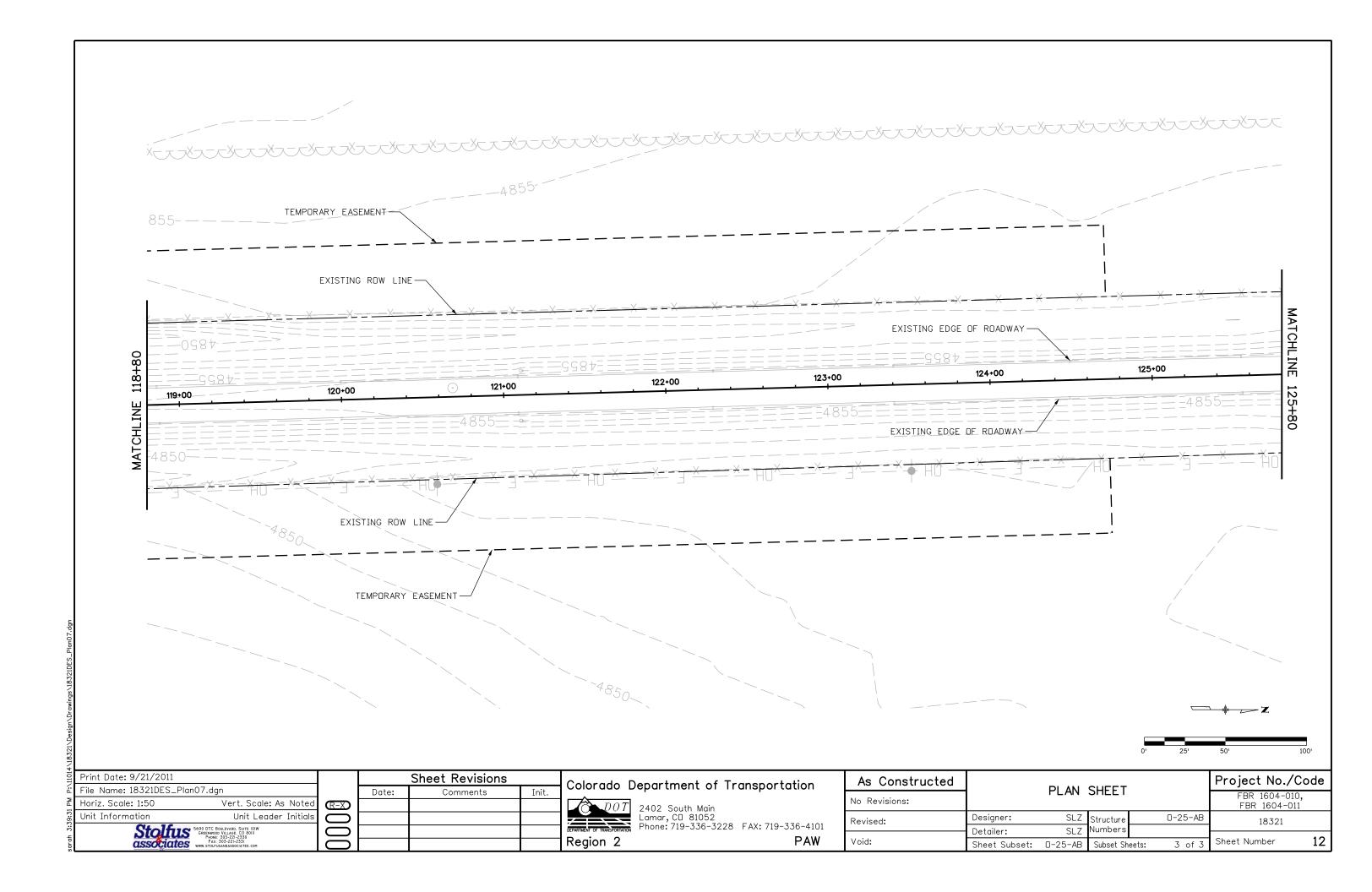


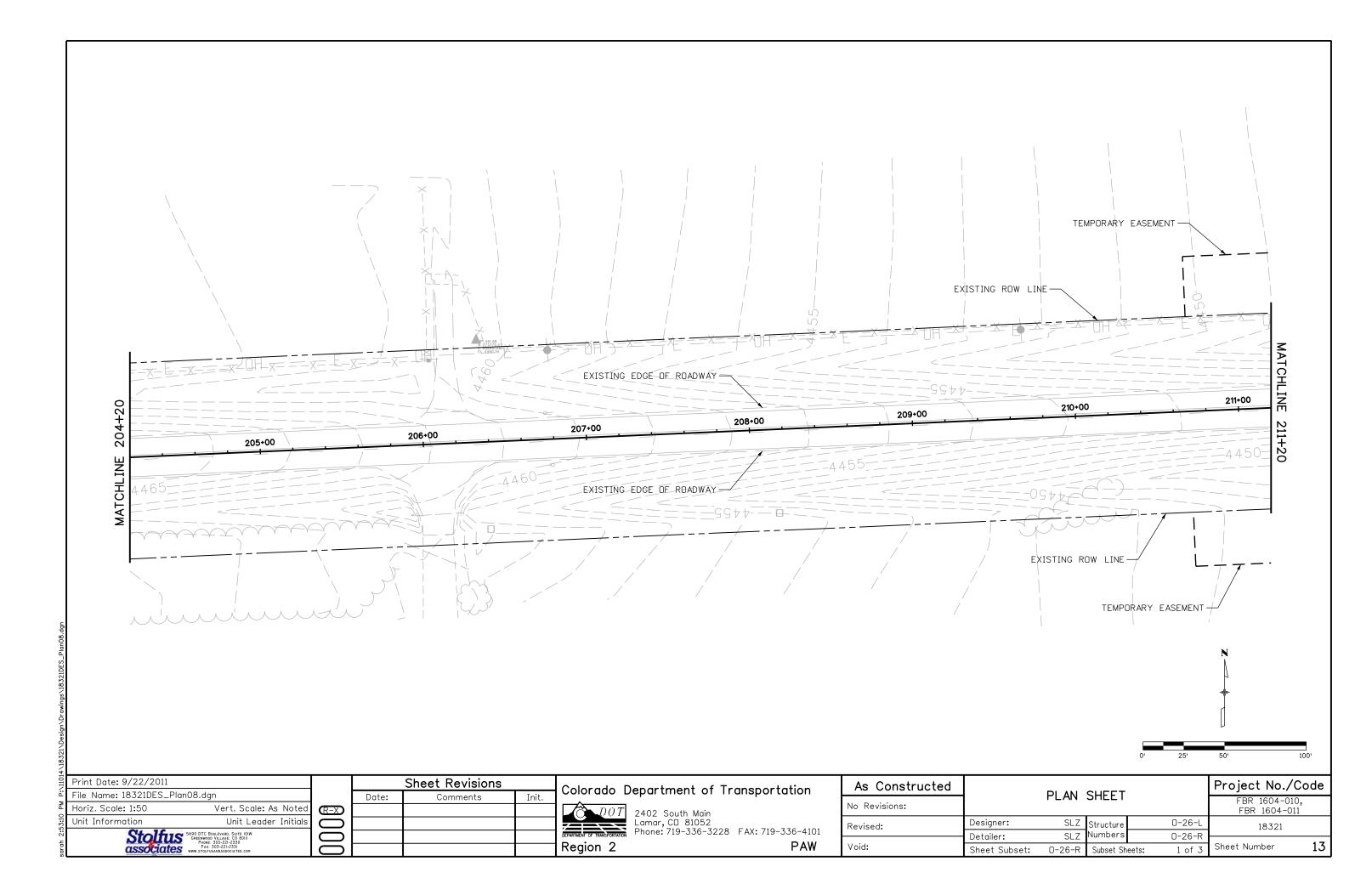


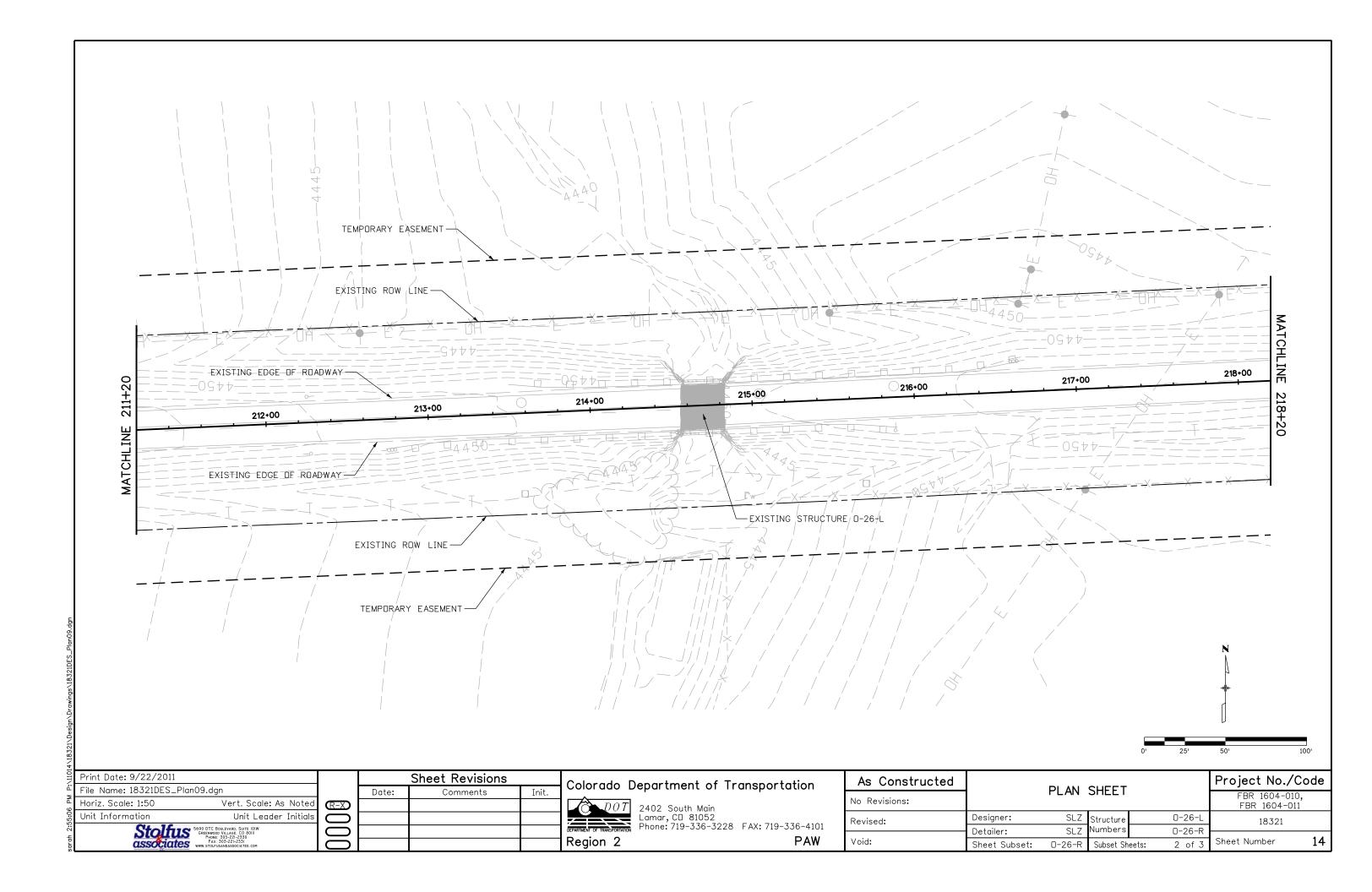


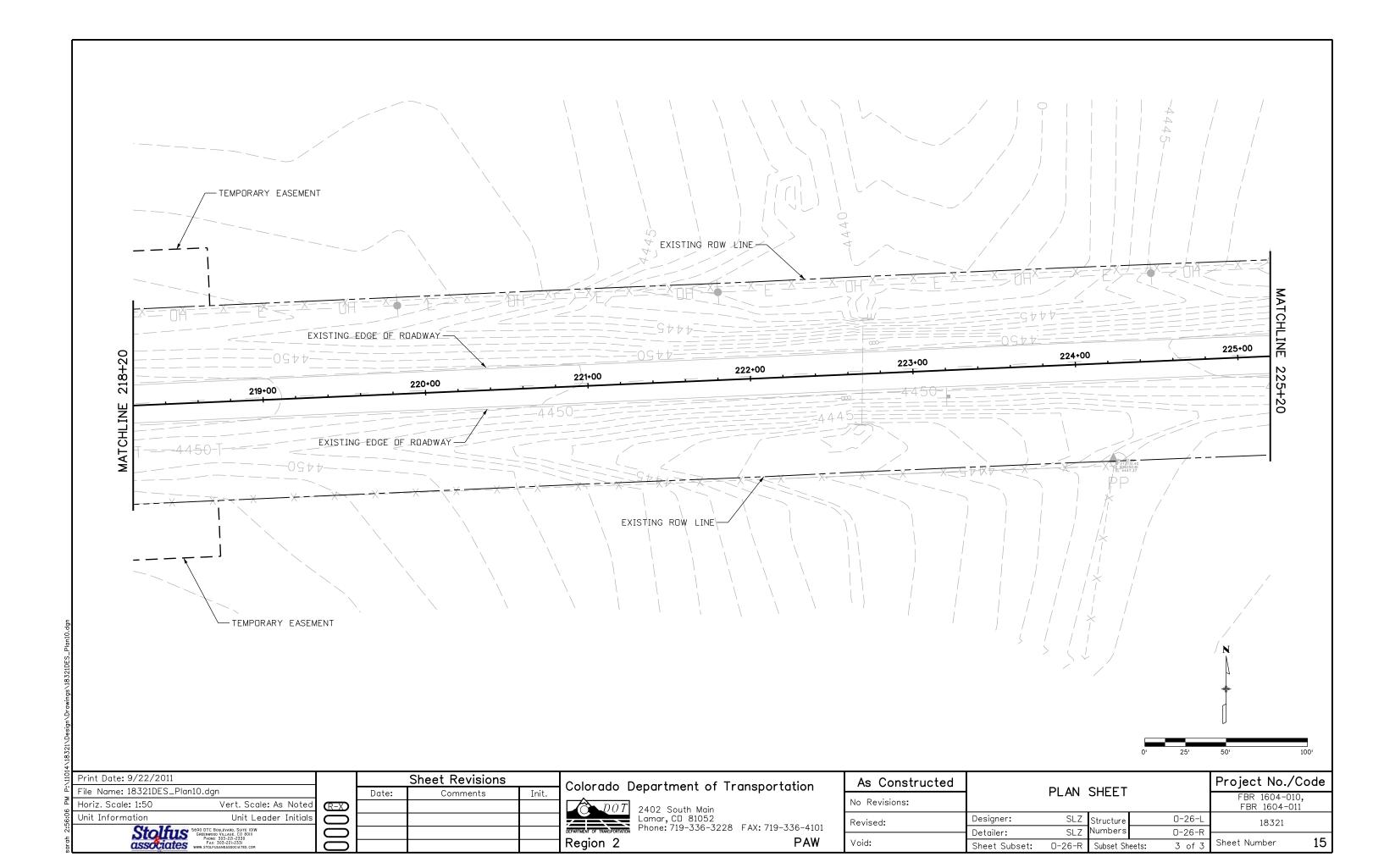












TO ESTABLISH GEOMETRIC CONTROL FOR THE CONSTRUCTION OF THIS PROJECT. THE DEPARTMENT HAS PROVIDED THE FOLLOWING INFORMATION:    Horizontal Control   Format   Format	Powements    PAWA - Hot Mix Asphalt (Section 403)   Concrete (Section 412)   Hotating & Scarrifying Treatment   Prime Cost, Tack Cost & Rejevenating Agent   Section 407)   Section 408   Section 408   Curb and Gutter (Section 609)   Drop inlets   Guard Rail (Section 606)   Sidewalk (Section 606)   Sidewalk (Section 608)   Overlay Stationing   Other:   Minor Structures   Structure Execution limits (Section 206)   Culverts (Section 603)   Concrete Box Culverts w/ Headwalls and Wingwalls   Pipes (Section 603)   Single and Bick (Section 603)   Single and Section 603)   Concrete Box Culverts w/ Headwalls and Wingwalls (Section 601)   Markels (Section 603)   Markels (Section 603)   Single Section 603)   Single Section 603)   Single Section 604)   Single Section 604)   Single Section 604)   Single Section 605)   Single Section 606)   Single Section 606)   Single Section 606)   Single Section 606)   Single Section 607)   Pipes (Section 604)   Single Section 608)   Single Section 608   Singl	Povement Morking (Section 627)
Print Date: 9/21/2011  Sheet Revisions File Name: 18321SURV_Tab.dgn  Date: Comments	Colorado Department of Transportation As Cons	tructed SURVEY TABULATION Project No./Code
He Name: 1832ISURV_Tab.dgn  Horiz. Scale: 1:50  Vert. Scale: As Noted  Unit Information  Unit Leader Initials  Stoffus  GREENWOOD VILAGE: CO 8011  FAX: 503-221-2331  FAX: 503-221-2331  FAX: 503-221-2330  FAX: 503-221-2330	Init.  2402 South Main Lamar, C0 81052 Phone: 719–336–3228 FAX: 719–336–4101  Region 2  No Revisions: Revised: Void:	Designer:   SLZ   Structure   18321

[Notes within [ ] are designer directions - delete all directions prior to final plan submittal. All XXX shall be filled in by the designer during design phase. Template includes narratives in matrix1

#### 1. SITE DESCRIPTION

For Information Only to fulfill the CDPS-SCP (Colorado Discharge Permit System - Stormwater Construction Permit) Update to reflect

- A. PROJECT SITE DESCRIPTION: [include description and nature of the construction activities at the site; type of project, summary of grading activities, installation of utilities, paving, excavation, landscape, etc. and the final disposition of the property. Also see the project 463 Form description]
- B. PROPOSED SEQUENCING FOR MAJOR ACTIVITIES: [describe the sequence of events involved in the project, such as clearing and grubbing, grading, excavation, structures removal and construction that may impact water quality etc.]
- C. ACRES OF DISTURBANCE: [includes clearing, grading, excavation, stockpiling of fill materials, demolition, areas with heavy vehicle traffic, installation of new or improved haul roads and access roads, staging areas, dedicated borrow/fill areas and storage that will disturb existing vegetative cover. Round area to the nearest 10th of acre]
  - 1. Total area of construction site: [xxx] acres
  - 2. Total area of disturbance: [xxx] acres
  - 3. Acreage of seeding: [xxx] acres
- D. EXISTING SOIL DATA: [includes describing list of USDA soil texture classification(s) or existing potential for soil erosion.]
- E. EXISTING VEGETATION, INCLUDING PERCENT COVER: [description of the existing vegetation at the site and an estimate of the percent vegetative ground cover. Plant count in accordance with chapter 4 of the CDOT erosion control and stormwater
- F. POTENTIAL POLLUTANTS SOURCES: See First Construction Activities under Potential Pollutant Sources. The ECS shall prepare a list of all potential pollutants and their locations in accordance with subsection 107.25.
- 1. Outfall locations: [show on plans or table: size, type location of pipes; ditch outfall locations; if the discharge is to a municipal separate storm sewer (MS4), the name of that system, the location/owner of the storm sewer discharge and the ultimate receiving water]
- 2. Names of receiving water(s) on site and the ultimate receiving water: [xxx]
- 3. Distance ultimate receiving water is from project: [xxx]
- H. ALLOWABLE NON-STORMWATER DISCHARGES: [The location and description of any anticipated allowable sources of nonstormwater components of the discharge, such as uncontaminated springs and landscape irrigation return flow. How will it be
  - 1. Groundwater and stormwater dewatering: Discharges to the ground of water from construction dewatering activities may be authorized provided that:
    - a. the source is groundwater and/or groundwater combined with stormwater that does not contain pollutants
    - b. the source and BMPs are identified in the SWMP
    - c. discharges do not leave the site as surface runoff or to surface waters.
  - 2. If discharges do not meet the above criteria a separate permit from the Department of Health will be required. Contaminated groundwater requiring coverage under a separate permit may include groundwater contaminated with pollutants from a landfill, mining activities, industrial pollutant plumes, underground storage tank, etc.
- I. ENVIRONMENTAL IMPACTS:
  - 1. Wetland Impacts: YES NO [Underline or circle which applies]
  - 2. Stream Impacts: YES NO [Underline or circle which applies]
  - 3. Threatened and Endangered Species: [List the sensitive species]

#### 2. SITE MAP COMPONENTS:

Pre-construction [The following items need to be shown on the SWMP site map. If they are not shown on the site map, reference the plan sheets or other location where they are shown and can be readily accessed.]

- A. PROJECT CONSTRUCTION POTENTIAL SITE BOUNDARIES [Label temporary and permanent easement lines as "construction
- B. ALL AREAS OF GROUND SURFACE DISTURBANCE [Label the line used to calculate acres of disturbance as "disturbance
- C. AREAS OF CUT AND FILL [Label cut/fill lines]
- D. LOCATION OF ALL STRUCTURAL BMPs IDENTIFIED IN THE SWMP [Label BMPs]
- E. LOCATION OF NON-STRUCTURAL BMPs AS APPLICABLE IN THE SWMP [Label known non-structural BMPs]
- F. SPRINGS, STREAMS, WETLANDS AND OTHER SURFACE WATER [Label locations]
- G. PROTECTION OF TREES, SHRUBS, CULTURAL RESOURCES AND MATURE VEGETATION [Label locations]
- H. AREAS USED FOR STORING AND STOCKPILING OF MATERIALS, STAGING AREAS (field trailer,fueling,etc) and BATCH **PLANTS**

Revise site maps in accordance to 208.03

Vert. Scale: As Noted

Unit Leader Initials

## 3. SWMP ADMINSTRATOR FOR DESIGN: [List the individual(s) position or title who is responsible for developing SWMP sheets

#### 4. STORMWATER MANAGEMENT CONTROLS FIRST CONSTRUCTION ACTIVITIES

THE CONTRACTOR SHALL PERFORM THE FOLLOWING:

A. DESIGNATE A SWMP ADMINISTRATOR/EROSION CONTROL SUPERVISOR (To be filled out at time of construction; designate the individual(s) responsible for implementing, maintaining and revising the SWMP, including the title and contact information. The activities and responsibilities of the administrator shall address all aspects of the projects SWMP.)

Name/Title: Contact information:

#### B. POTENTIAL POLLUTANT SOURCES

Evaluate, identify and describe all potential sources of pollutants at the site in accordance with subsection 107.25 and place in the SWMP notebook. All BMPs related to potential pollutants shall be shown on the SWMP site map by the contractor's ECS.

#### C. BEST MANAGEMENT PRACTICES (BMPs) FOR STORMWATER POLLUTION PREVENTION

PHASED BMP IMPLEMENTATION, APPLICATION AND NARRATIVE:

During Design: "BMP as Designed" boxes are marked when used in the SWMP. During construction: the ECS shall update the narratives, include new narratives and update the "In use on site" boxes to match which BMPs are currently in use on site. Clearly describe the relationship between the phases of construction and the implementation of BMP controls. The narrative should explain what, when, where, how and why the BMP is being used.]

[If BMPs are proposed in design and marked in the 'BMP as Designed' column and/or listed in the tabulation of quantities, those BMPs must be described in this section and they shall be located on the site map. Clearly describe the relationship between the phases of construction and the implementation of each used BMP.

STRUCTURAL and NONSTRUCTURAL BMPs that may be potentially used on the project for erosion and sediment control; practices may include, but are not limited to:

Structural BMPs and Application	Narrative	BMP as Designed	FIRST CONSTRUCTION ACTIVITIES	DURING CONSTRUCTION	INTERIM/FINAL STABILIZATION
Earth Berm/Stockpile	Placed around toe to contain sediment around stockpile	х		×	
Earth Berm/Toe of fill	Placed prior to earthwork within specified distance of toe to capture sediment and protect undisturbed areas	х	x	x	
Earthberm/Diversion	Placed to divert drainage and subdivide runoff volume from less than 10 acre sub basins. Temp feature to be removed upon final stabilization	x	х	x	
*Rock Check Dams/Ditch	Velocity checks in ditches placed immediately after ditch grading	х	х	х	
Silt Fence/Sediment Control	Placed on contour to contain construction runoff	х	х	х	
Vegetation	Placed to protect undisturbed area and delineate boundary of protected area Erosion Control checks in ditches placed	х	х	х	
erosion Logs, Silt Berms or Silt Dikes/Ditch Checks	immediately after ditch grading to reduce flow velocity of runoff in ditch	х	x	х	x
Erosion Logs/ Existing Inlet	Placed prior to disturbance at existing inlets where disturbance maybe occurring to cause sediment laden water to enter pipe	х	x	x	
Erosion Logs/culvert inlet or outlet	Placed on culvert to filter or prevent sediment from entering pipe. If disturbance occurs above pipe then erosion logs are placed above pipe	х	х	x	x
Erosion Logs/Sediment Control	Placed to protect undisturbed area and delineate boundary of protected area	х	х	х	
Storm Drain Inlet Protection/Sediment Control	Placed to protect storm drain inlets to filter or prevent sediment from entering drainage system.	x	x	×	×
Temporary Sediment Trap/Basin	Contain and filter sediment laden water from < 5 acre sub basins within construction disturbance	х	х	x	
Permanent Sediment Trap/Basin	Utilized during construction to act as temporary sediment containment. Outlet structure shall be modified for construction runoff	х	х	x	
Embankment Protection or Temp Slope Drain	Placed as a conduit or chute to drain runoff down slope and prevent erosion of slope	х		x	х
Outlet Protection	Material placed as energy dissipation device to prevent erosion at outlet structure	x		x	x
Concrete Washouts/Construction Control	Construction waste management of concrete washout material	х		x	
Vehicle tracking Pad/ Construction Control	Placed to prevent tracking of sediment from disturbance to offsite surface	х	х	х	
Source Control	Utilized to remove sediment on pavement surface and to prevent sediment from entering drainage system				
Dewatering/ Construction Control	Sediment control to remove or filter sediment from construction dewatering	x			
Temporary Stream Crossing/ Construction Control	Constructed over stream or drainage to prevent discharge of pollutants from construction equipment into stream.	x			

Print Date: 9/21/2011 Unit Information

File Name: 18321DES\_SWMP.dgn

5690 DTC BOULEVARD, SUITE IOIW GREENWOOD VILLAGE, CO 80III PHONE: 303-221-2330 FAX: 303-221-2331

Horiz. Scale: 1:50

	Control Construction equipment into stream.											
		Sheet Revisions		Colorado Department of Transportation		As Constructed	STORMWATER MANAGEMENT PLAN			Project No./C	Code	
	Date:	Comments	Init.							FBR 1604-010		
<b>-</b> ∑> [						No Revisions:				FBR 1604-011		
⊃ [				Lamar, C	CO 81052	Revised:	Designer:	SLZ	Structure		18321	
¬ [				DEPARTMENT OF TRANSPORTATION Phone: /	19-336-3228 FAX: 719-336-4101		Detailer:	SLZ	Numbers			
5 I				Region 2	PAW	Void:	Sheet Subset:	SWMP	Subset She	eets: 1 of 3	Sheet Number	17

Placed to divert clean surface or ground

Interim and temp stabilization of

ater from mixing with construction runoff

D. OFFSITE DRAINAGE (RUN ON WATER)

1. Describe and record BMPs on the SWMP site map that has been implemented to address off site run-on water in accordance with subsection 208.03.

#### E. VEHICLE TRACKING PAD

Surface

1. BMPs shall be implemented in accordance with subsection 208.04.

#### F. PERIMETER CONTROL

- 1. Perimeter control shall be established as the first item on the SWMP to prevent the potential for pollutants leaving the construction site boundaries, entering the stormwater drainage system, or discharging to state waters.
- 2. Perimeter control may consist of vegetation buffers, berms, silt fence, erosion logs, existing landforms, or other BMPs as approved.
- 3. Perimeter control shall be in accordance with subsection 208.04

#### 5. DURING CONSTRUCTION

RESPONSIBILITIES OF THE SWMP ADMINISTRATOR/EROSION CONTROL SUPERVISOR DURING CONSTRUCTION

The SWMP should be considered a "living document" that is continuously reviewed and modified. During construction, the following items shall be added, updated, or amended as needed by the SWMP Administrator/Erosion Control Supervisor (ECS) in accordance with Section 208.

During construction, indicate how items that have not been addressed during design are being handled in construction. If items are covered in the template or other sections of the SWMP notebook indicate below what section the discussion takes place.

- A. STOCKPILE MANAGEMENT shall be done in accordance with subsection 101.95 and 208.07
- B. <u>CONCRETE WASHOUT</u> Concrete wash out water or waste from field laboratories and paving equipment shall be contained in accordance with subsection 208.05.
- C. SAW CUTTING shall be done in accordance with subsection 101.95, 208.04, 208.05
- D. STREET CLEANING shall be done in accordance with subsection 208.04

#### 6. INSPECTIONS

A. Inspections shall be in accordance with subsection 208.03 (c).

#### 7. BMP MAINTENANCE

A. Maintenance shall be in accordance with subsection 208.04 (f).

#### 8. RECORD KEEPING

A. Records shall be kept in accordance with subsection 208.03 (c).

#### 9. INTERIM AND FINAL STABILIZATON

#### A. SEEDING PLAN

Soil preparation, soil conditioning or topsoil, seeding (native), mulching (weed free) and mulch tackifier will be required for an estimated xxx acres of disturbed area within the right-of-way limits which are not surfaced. The following types and rates shall be used:

COMMON NAME	BOTANICAL NAME	LBS. PLS PER ACRE
Blue grama	Bouteloua grailis v. Hachita	2
Western wheatgrass	Pascopyrum smithii v. rosana	6
Sideoats grama	Bouteloua curtipendula v. Vaugn	3
Canada bluegrass	Poa compressa	3
Slender wheatgrass	Elyumus trachycaulus v. primar	3
Switchgrass	Panicum vigatum v. "Dacotah"	4
Mountain brome	Bromus marginatus	3
Rocky mountain penstemon	Penstemon strictus	0.5
Blue flax	Linum lewisii v. appar	0.5
TOTAL		25

- B. <u>SEEDING APPLICATION</u>: Drill seed 0.25 inch to 0.5 inch into the soil. In small areas not accessible to a drill, hand broadcast at double the rate and rake 0.25 inch to 0.5 inch into the soil.
- C. <u>MULCHING APPLICATION</u>: Apply a minimum of 1 ½ tons of certified weed free native hay per acre and in accordance with Section 213, and mechanically crimp it into the soil in combination with an organic mulch tackifier.
- D. SPECIAL REQUIREMENTS: Due to high failure rates, hydromulching and/or hydroseeding will not be allowed
- E. Soil conditioning and fertilizer requirements:

[Minimum requirements for all disturbances to receive seeding (native). Compost is optional within areas above 8000 ft in elevation]

Soil condition	Soil conditioner paid for as Item 212- Soil							
Conditioning	Conditioning (Acre)							
Biological nutrient organic based fertilizer (lbs/acre)*	Humate (lbs/acre)	Compost (cys/acre) (1/2 inch depth)						
600	200	65						

\*Biological nutrient shall not exceed 8-8-8 (N-P-K). Humate based material shall be in accordance to Section 212 and compost shall be in accordance to Special Provision 212. Refer to Project Special- Topsoil for additional topsoil amendments.[Include topsoil project special provision] Placing compost when required to amend embankment and as soil conditioner may be combined as a single application.

- F. <u>BLANKET APPLICATION:</u> On slopes and ditches requiring a blanket, the blanket shall be placed in lieu of mulch and mulch tackifier. See SWMP for blanket locations.
- G. RESEEDING OPERATIONS/CORRECTIVE STABILIZATION

Prior to final acceptance.

[Select item(s) that apply, delete references to all others]

- 1. Seeded areas shall be reviewed during the 14 day inspections by the Erosion Control Supervisor for bare soils caused by surface or wind erosion. Bare areas caused by surface or gully erosion, blown away mulch, etc. shall be regraded, seeded, mulched and have mulch tackifier (or blanket) applied as necessary, at no additional cost to the project.
- 2. Areas where seed has not germinated after one season shall be evaluated by the Engineer and CDOT Landscape Architect. Areas that have not germinated shall have seed, mulch and mulch tackifier (or blanket) reapplied. Work shall be paid for by the appropriate bid item.
- 3. The Contractor shall maintain seeding/mulch/tackifier, mow to control weeds or apply herbicide to control weeds in the seeded areas until Final Acceptance.

#### 10. PRIOR TO FINAL ACCEPTANCE

A. Final Acceptance shall be in accordance with subsection 208.10.

Print Date: 9/21/2011 Sheet Revisions Project No./Code As Constructed Colorado Department of Transportation STORMWATER MANAGEMENT PLAN File Name: 18321DES\_SWMP.dgn Date: Init. Comments FBR 1604-010. No Revisions: Horiz. Scale: 1:50 Vert. Scale: As Noted (R-X) FBR 1604-011 2402 South Main Unit Information Unit Leader Initials Lamar, CO 81052 SLZ Structure Designer: Revised: 18321 Phone: 719-336-3228 FAX: 719-336-4101 5690 DTC BOULEVARD, SUITE IOIW
GREENWOOD VILLAGE. CO 80III
PPONE: 503-221-2351
FAX: 303-221-2351
WWW.YST-GIRISANDASSOCIATES COM Numbers SLZ Detailer: Region 2 PAW Void: 18 Sheet Number **associates** \*\*\*\*.s SWMP Sheet Subset: Subset Sheets: 2 of 3

#### 11. TABULATION OF STORMWATER QUANTITIES

Pay Item	Description	Pay Unit	*Quantity
203	Backhoe	Hour	
203	Combination Loader	Hour	
203	Dozing	Hour	
207	Topsoil	CY	
207	Stockpile Topsoil	CY	
208	Sweeping (Sediment Removal)	Hour	
208	Removal of Trash	Hour	
208	Silt Dike	LF	
208	Erosion Log (12 Inch)	LF	
208	Erosion Log (20 Inch)	LF	
208	Erosion Bales (Weed Free)	Each	
208	Sand Bag	Each	
208	Silt Fence	LF	
208	Silt Fence (Reinforced)	LF	
208	Sediment Basin	Each	
208	Sediment Trap	Each	
208	Check Dam	Each	
208	Concrete Washout Structure	Each	
208	Storm Drain Inlet Protection (Type_)	LF	
208	Rigid Inlet Protection Device	Each	
208	Temporary Slope Drain	LF	
208	Vehicle Tracking Pad	Each	
208	Removal and Disposal of Sediment (Equipment)	Hour	
208	Removal and Disposal of Sediment (Labor)	Hour	
208	Erosion Control Supervisor	Hour	
208	Erosion Control Supervisor	Day	
208	Temporary Berm	LF	
208	Gravel Bag	LF	
208	Silt Berm	LF	
212	Seeding (Native)	Acre	
212	Seeding (Temporary)	Acre	
212	Soil Conditioning	Acre	
213	Mulching (Weed Free Hay)	Acre	
213	Mulching (Weed Free)	Acre	
213	Mulching (Weed Free Straw)	Acre	
213	Mulch Tackifier	LB	
213	Soil Binder	Acre	
213	Spray-on Mulch Blanket	Acre	
216	Soil Retention Blanket (Straw/Coconut)	SY	
216		51	
216	(Biodegradable Class 1) Soil Retention Blanket (Straw/Coconut)	SY	
216	(Photodegradable Class 1)	SY	
216	Soil Retention Blanket (Excelsior) (Biodegradable	SY	
216	Class 1)	31	
216	Soil Retention Blanket (Excelsior) (Photodegradable	SY	
0.1.6	Class 1)	-	
216	Soil Retention Blanket (Coconut) (Biodegradable Class 2)	SY	
216	Soil Retention Blanket (Coconut) (Photodegradable Class 2)	SY	
216	Turf Reinforcement Mat (Class_1)	SY	
		SY	
216	Turf Reinforcement Mat (Class_2)		
216	Turf Reinforcement Mat (Class_3)	SY	
217	Herbicide Treatment	Hour	
217	Herbicide Treatment	SY	
700	Erosion Control	FA	

\*It is anticipated that additional BMPs and BMP quantities not shown on the SWMP Site Maps shall be required on the project for unforeseen conditions and replacement of items that are beyond their useful service life, see subsection 208.03 and 208.04 (e). Quantities for all BMPs shown above are estimated, and have been increased for unforeseen Project conditions.

- A. BMP sediment removal and disposal shall be paid for as: 208 Removal and Disposal of Sediment (Equipment) and 208 Removal and Disposal of Sediment (Labor). All other BMP maintenance shall be included in the cost of the BMP Device.
- B. It is estimated that XXX hours of labor, blading (X horsepower), dozing (X horsepower), combination loader (X horsepower) and/or backhoe (X horsepower) may be required for miscellaneous erosion control work as directed by the Engineer. Work shall be paid for as: [Select appropriate pay item, delete references to others] 203 Labor, 203 Blading, 203 Dozing, 203 Combination Loader or 203 Backhoe.
- C. Maintenance of seeded areas shall be paid for as: [FA Erosion Control, 212 Seeding (native),213 Mulching, 216 Soil Retention Covering, 214 Landscape Maintenance Lump Sum, 203 Labor Hours, or included in the price of the work]

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Colorado Department of Transportation

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