GRADING, EROSION AND SEDIMENT CONTROL PLANS

DENVER EXPANSION PROJECT - SCOTT CITY TO DENVER PIPELINE

LOCATED IN SECTION 35 OF T003S R065W, SECTIONS 31 AND 32 OF T004S R062W, SECTIONS 17, 18, 20, 21, 22, 23, 25, 26, 27 AND 36 OF T004S R063W, SECTIONS 6, 7, 8, 9, 10, 11, 12 AND 13 OF T004S R064W, SECTIONS 1 AND 2 OF T004S R065W, SECTIONS 29, 30, 32, 33, 34 AND 35 OF T005S R060W, SECTIONS 7, 16, 17, 18, 21, 22, 23, 24 AND 25 OF T005S R061W, SECTIONS 2, 3, 4, 5, 10, 11 AND 12 OF T005S R062W OF THE SIXTH PRINCIPAL MERIDIAN, COUNTY OF ARAPAHOE, STATE OF COLORADO

THIS GRADING, EROSION AND SEDIMENT CONTROL (GESC) DOCUMENT HAS BEEN PREPARED FOR THE EXECUTION OF MAGELLAN'S DENVER EXPANSION PROJECT - SCOTT CITY TO DENVER PIPELINE AND APPEARS TO FULFILL THE LATEST VERSION OF THE GRADING, EROSION AND SEDIMENT CONTROL MANUAL. ADDITIONAL GRADING, EROSION AND SEDIMENT CONTROL MEASURES MAY BE REQUIRED OF THE OWNER OR HIS/HER AGENTS, DUE TO UNFORESEEN EROSION PROBLEMS OR IF THE SUBMITTED PLAN DOES NOT FUNCTION AS INTENDED. THE REQUIREMENTS OF THIS GESC DOCUMENT SHALL RUN WITH THE LAND AND BE THE OBLIGATION OF THE LANDOWNER, OR HIS/HER DESIGNATED REPRESENTATIVE(S) UNTIL SUCH TIME AS THE PLAN IS PROPERLY COMPLETED, MODIFIED OR VOIDED.

PROJECT SCOPE

1. IN ADDITION TO INDICATING CM'S, THIS GESC PLAN SERVES AS A GUIDE TO LOCATING TEMPORARY POINTS OF ACCESS TO THE EASEMENT AND RELATIVE DRAINAGE CULVERTS.

2. TYPICAL LOCATION OF SPOIL STORAGE ALONG RIGHT-OF-WAY, INCLUDING TOPSOIL, ARE DETAILED IN DETAIL LOC (SHEET 42).

3. HDD LOCATIONS ARE APPROXIMATE. PLEASE REFER TO CONSTRUCTION PLANS FOR MORE DETAILS.

4. LOCAL FLOODPLAIN DATA PROVIDED PER FLOODPLAIN DELINEATION STUDY FOR THE DENVER EXPANSION PROJECT DATED DECEMBER 6, 2024.

5. DEWATERING ACTIVITIES WILL BE PERFORMED WHERE INDICATED ON THE PLANS AND ON AN AS-NEEDED BASIS AT UNDETERMINED LOCATIONS IF NECESSARY. ALL ACTIVITIES WILL COMPLY WITH STATE-ISSUED PERMITS AND DEWATERING CONTROL MEASURES.

6. BACKGROUND IMAGERY WAS OBTAINED FROM ESRI WORLD IMAGERY SERVICE.

7. CONTOURS WERE CREATED BY EXP BASED ON LIDAR DATA COLLECTED BY THE DENVER REGIONAL COUNCIL OF GOVERNMENTS REGIONAL LIDAR PROJECT 2020. CONTOUR ACCURACY IS ESTIMATED AT ONE TO TWO METERS.

GENERAL NOTES

1. APPROPRIATE CONTROL MEASURES MUST BE IMPLEMENTED PRIOR TO THE START OF LAND DISTURBANCE ACTIVITY, POTENTIAL POLLUTANTS MUST BE CONTROLLED DURING EACH PHASE OF CONSTRUCTION, AND MUST BE CONTINUED THROUGH FINAL STABILIZATION. APPROPRIATE STRUCTURAL AND NON-STRUCTURAL CONTROL MEASURES MUST BE MAINTAINED IN OPERATIONAL CONDITION.

2. SEE STANDARD NOTES AND DETAILS (SHEET 1) FOR LEGEND OF CONTROL MEASURES NAMES AND SYMBOLS.

3. ALL PROPOSED SLOPES ON THIS PLAN HAVE A MAXIMUM SLOPE OF 3:1. ANY SLOPES BETWEEN 3:1 AND 4:1 WILL REQUIRE THE USE OF EROSION CONTROL BLANKETS OR FLEXIBLE GROWTH MEDIUM, AS APPROVED BY THE GESC INSPECTOR.

4. NO WORK, STORAGE OF EQUIPMENT, OR STOCKPILING SHALL BE ALLOWED OUTSIDE OF THE APPROVED LIMITS OF CONSTRUCTION. THE LIMITS OF CONSTRUCTION MUST BE COMPLIED WITH AND ARE ENFORCEABLE BY THE INSPECTOR.

5. WASHING OF EQUIPMENT AND MACHINERY SHALL NOT BE ALLOWED ON SITE.

6. OUTDOOR STORAGE OR ANY OF THE ABOVE ITEMS SHALL NOT BE STORED WITHIN THE FLOODPLAIN. APPROPRIATELY STORE, COVER, AND/OR ISOLATE ALL ONSITE POTENTIAL CONSTRUCTION-ASSOCIATED WASTE POLLUTANTS TO PREVENT RUNOFF OF POLLUTANTS AND CONTAMINATION OF GROUND WATER. OUTDOOR STORAGE OF BULK LIQUIDS IS REQUIRED TO HAVE SECONDARY CONTAINMENT OR EQUIVALENT PROTECTIVE MEASURES IN PLACE.

7. EQUIPMENT MAINTENANCE IS TO BE CONDUCTED IN THE DESIGNATED LOCATION WITHIN THE LIMITS OF CONSTRUCTION. MAINTENANCE SHOULD NOT BE CONDUCTED WITHIN 50 FEET OF A CONVEYANCE SWALE, DRAINAGEWAY, AND/OR STORM SEWER INLETS.
SPILLS AND LEAKS ONSITE MUST BE CLEANED UP USING DRY METHODS WHENEVER POSSIBLE. IF WATER OR OTHER LIQUID METHODS ARE USED, THE WASH WATER MUST BE COLLECTED AND DISPOSED OF PROPERLY. SPILLED SUBSTANCES AND ANY ASSOCIATED CLEANING RESIDUE MUST BE PREVENTED FROM REACHING RECEIVING WATERS AND/OR ENTERING THE STORM SEWER SYSTEM. EFFECTIVE SPILL CONTROL IS REQUIRED TO BE IMPLEMENTED ON CONSTRUCTION SITES. ONSITE PERSONNEL MUST BE TRAINED ON BOTH SPILL PREVENTION AND SPILL RESPONSE MEASURES.

8. ALL FUEL WILL BE STORED AT LEAST 100 FEET FROM ANY WATERBODY OR WETLAND, REFUELING WILL NOT OCCUR WITHIN 100 FEET OF A WATERBODY OR WETLAND, AND ALL BORING EQUIPMENT, STATIONARY EQUIPMENT, AND ANY EQUIPMENT CARRYING MORE THAN 115 GALLONS OF FUEL WILL BE EQUIPPED WITH SPILL KITS.

9. SEE CONSTRUCTION PLANS FOR DETAILS OF PERMANENT DRAINAGE FACILITIES SUCH AS DETENTION FACILITIES, WATER QUALITY FACILITIES, CULVERTS, STORM DRAINS, AND INLET AND OUTLET PROTECTION.

GENERAL NOTES (INITIAL/INTERIM ONLY)

1. ANY CONTROL MEASURES SHOWN THAT REQUIRE GRADING, (E.G. SEDIMENT BASINS, SEDIMENT TRAPS, CONCRETE WASHOUT AREAS, ETC.), SHALL NOT BE PLACED UNTIL AFTER THE PRE-CONSTRUCTION MEETING AND ISSUANCE OF THE GESC PERMIT, BUT MUST BE FULLY FUNCTIONAL PRIOR TO ANY LARGE-SCALE GRADING.

2. CONTROL MEASURES, INCLUDING SEEDING AND MULCHING OF DISTURBED AREAS, MUST BE COMPLETED WITHIN 14 DAYS, IF THE AREA WILL REMAIN UNDISTURBED FOR A PERIOD GREATER THAN 30 DAYS.

3. IF SITE RUNOFF ENTERS THE POST-CONSTRUCTION PERMANENT CONTROL MEASURE(S), SEDIMENT CONTAMINATION OF THE MATERIALS MAY RESULT IN THE POST-CONSTRUCTION PERMANENT CONTROL MEASURE(S) HAVING TO BE RECONSTRUCTED IN ITS ENTIRETY. (WHERE APPLICABLE) REMOVAL OF SEDIMENT BASIN ON SITE SHALL ONLY OCCUR AFTER ALL AREAS TRIBUTARY TO THE SEDIMENT BASIN HAVE BEEN STABILIZED. REMOVAL MUST BE APPROVED BY THE GESC INSPECTOR.

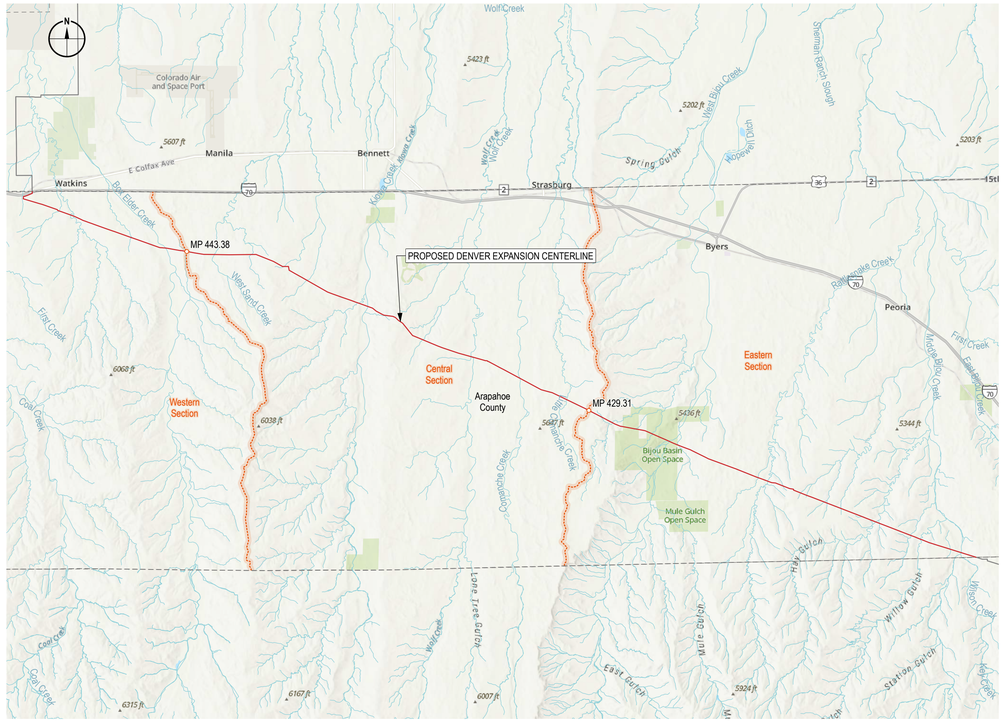
GENERAL NOTES (FINAL ONLY)

1. SCREENED/SHADED BACK CONTROL MEASURES WERE INSTALLED IN THE INITIAL OR INTERIM STAGE AND, UNLESS OTHERWISE INDICATED, SHALL BE LEFT IN PLACE UNTIL APPROVED BY THE GESC INSPECTOR.

2. ALL INTERIM CONTROL MEASURES, INCLUDING SEEDING AND MULCHING OR DISTURBED AREAS, MUST BE COMPLETED WITHIN 14 DAYS IF THE AREAS WILL REMAIN UNDISTURBED FOR A PERIOD GREATER THAN 30 DAYS.

3. ACCEPTANCE OF THE POST-CONSTRUCTION PERMANENT CONTROL MEASURES WILL NOT OCCUR UNTIL ALL TRIBUTARY AREAS TO THE PERMANENT CONTROL MEASURES ARE FINAL STABILIZED.

ARAPAHOE COUNTY CASE NO. UASI25-002



VICINITY MAP

SCALE: 1" = 12,000'

LANDOWNER /AUTHORIZED AGENT SIGNATURE BLOCK

I HEREBY CERTIFY THAT THE GRADING, EROSION AND SEDIMENT CONTROL MEASURES FOR THE DENVER EXPANSION PROJECT - SCOTT CITY TO DENVER PIPELINE SHALL BE CONSTRUCTED ACCORDING TO THE DESIGN PRESENTED IN THIS REPORT. I UNDERSTAND THAT ADDITIONAL EROSION CONTROL, SEDIMENT CONTROL AND WATER QUALITY ENHANCING MEASURES MAY BE REQUIRED OF THE OWNER AND HIS OR HER AGENTS DUE TO UNFORESEEN POLLUTANT DISCHARGES OR IF THE SUBMITTED PLAN DOES NOT FUNCTION AS INTENDED. THE REQUIREMENTS OF THE PLAN SHALL BE THE OBLIGATION OF THE LAND OWNER AND/OR HIS SUCCESSORS OR HEIRS, UNTIL SUCH TIME AS THE PLAN IS PROPERLY COMPLETED MODIFIED OR VOIDED.

OWNER OR AUTHORIZED AGENT: _____

AUTHORIZED SIGNATURE: _____ DATE: _____

ENGINEER SIGNATURE BLOCK

I HEREBY ATTEST THAT THIS GRADING, EROSION AND SEDIMENT CONTROL (GESC) DOCUMENT FOR THE DENVER EXPANSION PROJECT - SCOTT CITY TO DENVER PIPELINE HAS BEEN PREPARED BY ME OR UNDER MY DIRECT SUPERVISION, AND TO THE BEST OF MY KNOWLEDGE AND ABILITY HAS BEEN PREPARED IN ACCORDANCE WITH THE LATEST VERSION OF THE ARAPAHOE COUNTY GESC MANUAL. THE SIGNATURE AND STAMP AFFIXED HEREON CERTIFIES THAT THIS GESC DOCUMENT WAS PREPARED IN ACCORDANCE WITH THE REQUIRED REGULATIONS AND CRITERIA; HOWEVER THE STAMP AND SIGNATURE DOES NOT CERTIFY OR GUARANTEE FUTURE PERFORMANCE OF THE EXECUTION OF THE PLAN BY THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR EXECUTING THE CONSTRUCTION WORK ACCORDING TO THE INFORMATION SET FORTH IN THE PLAN AND IN ACCORDANCE WITH ALL APPLICABLE REQUIREMENTS.

COLORADO LICENSED
STEPHEN SKÓRKA
65474
PROFESSIONAL ENGINEER
2025-10-30

ENGINEERING AND CONSTRUCTION DIVISION

THESE PLANS HAVE BEEN REVIEWED BY ARAPAHOE COUNTY FOR GRADING, EROSION, AND SEDIMENT CONTROL IMPROVEMENT ONLY.

CONTROL MEASURE NOTES

- (VTC) VEHICLE TRACKING CONTROL
- (SR) SURFACE ROUGHENING
- (TSC) TEMPORARY STREAM CROSSING
- (SF) SILT FENCE
- (CF) CONSTRUCTION FENCE
- (ECB) EROSION CONTROL BLANKET INSTALLATION (CURLEX EXCELSIOR)
- (SID) SLOPE INTERCEPT DITCH
- (CM) CONSTRUCTION MARKER
- (SM) SEED AND MULCH
- (LOC) LIMITS OF CONSTRUCTION (SEE PROPOSED EASEMENT BOUNDARY / TEMPORARY WORKSPACE BOUNDARY BELOW)

(1) ATWS WILL HAVE RESTRICTED USE (NO TOP SOIL STORAGE, HAZARDOUS MATERIAL STORAGE, OR REFUELING WILL OCCUR).

(2) ITEMS IN LIGHT GRAY WERE INCLUDED IN THE INITIAL/INTERIM PLAN SET BUT HAVE BEEN REMOVED IN THE FINAL PLAN SET.

ENVIRONMENTAL NOTES / LEGEND

(1) ENVIRONMENTAL EXCLUSION AREAS WILL BE MARKED BY EXCLUSION FENCING AND SIGNAGE.

0 5 10 MILES

TRANSVERSE MERCATOR, NAD 1983 BLM ZONE 13N, U.S. FOOT

BILL OF MATERIALS

REFERENCE DRAWINGS

REF.	DWG. NUMBER	DWG. TITLE

CP FEATURE DATA

REVISIONS

REV.	DATE	BY	DESCRIPTION
0	08/29/25	PD	ISSUED FOR USE
1	09/26/25	PD	UPDATED ALIGNMENT
2	10/24/25	PD	UPDATED AGENCY COMMENTS

DENVER EXPANSION PROJECT - SCOTT CITY TO DENVER PIPELINE

ONEOK
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ONEOK Plaza
100 West Fifth Street
Tulsa, OK 74103, USA

MAGELLAN MIDSTREAM PARTNERS

EXP Energy Services Inc.
t: +1 (713) 439-3600
f: +1 (713) 963-9085
11330 Clay Road, Suite 550
Houston, TX 77041, USA

DRAWN BY:	PD	**DATE:**	10/24/25
CHECKED BY:	DS	**SCALE:**	1" = 12,000'
APPROVED BY:	SS	**SHEET:**	1 OF 95

GRADING, EROSION AND SEDIMENT CONTROL PLANS ARAPAHOE COUNTY, COLORADO

COVER PAGE

DWG. NUMBER:	1001-02-002-COVER	**REVISION:**	2

Path: G:\Projects\ONL-0003084-01 - Magellan - Scott City to Denver Pipeline\0800_GEO\14_Mapping\01 Maps Graded\02 Engineering\ 1001-02-002 EC Rev - Arapahoe Co\1001-02-002-final.aprx

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SHEET 85 OF 95: 1001-02-002-035-F - FINAL GRADING, EROSION AND SEDIMENT CONTROL PLAN - STA. 23534+10 TO STA. 23580+10
SHEET 86 OF 95: 1001-02-002-036-F - FINAL GRADING, EROSION AND SEDIMENT CONTROL PLAN - STA. 23580+10 TO STA. 23626+10
SHEET 87 OF 95: 1001-02-002-037-F - FINAL GRADING, EROSION AND SEDIMENT CONTROL PLAN - STA. 23626+10 TO STA. 23672+10
SHEET 88 OF 95: 1001-02-002-038-F - FINAL GRADING, EROSION AND SEDIMENT CONTROL PLAN - STA. 23672+10 TO STA. 23722+66

SHEET 89 OF 95: 1001-02-002-045 - GRADING, EROSION AND SEDIMENT CONTROL PLAN/PROPOSED WATKINS JUNCTION SITE

SHEET 90 OF 95: 1001-02-002-039 - SEMSWA GRADING, EROSION AND SEDIMENT CONTROL STANDARD NOTES AND DETAILS - REVISED FEB. 2023
SHEET 91 OF 95: 1001-02-002-040 - SEMSWA GRADING, EROSION AND SEDIMENT CONTROL STANDARD NOTES AND DETAILS - REVISED FEB. 2023
SHEET 92 OF 95: 1001-02-002-041 - SEMSWA GRADING, EROSION AND SEDIMENT CONTROL STANDARD NOTES AND DETAILS - REVISED FEB. 2023
SHEET 93 OF 95: 1001-02-002-042 - SEMSWA GRADING, EROSION AND SEDIMENT CONTROL STANDARD NOTES AND DETAILS - REVISED FEB. 2023
SHEET 94 OF 95: 1001-02-002-043 - GRADING, EROSION AND SEDIMENT CONTROL PLAN NOTES AND DETAILS - ARAPAHOE CO.
SHEET 95 OF 95: 1001-02-002-044 - PROPOSED HAUL ROUTES - ARAPAHOE CO.

ARAPAHOE COUNTY CASE NO. UASI25-002

COLORADO LICENSED
STEPHEN SKOOGAT
65474
PROFESSIONAL ENGINEER
2025-10-28

ENGINEERING AND CONSTRUCTION DIVISION

THESE PLANS HAVE BEEN REVIEWED BY ARAPAHOE COUNTY FOR GRADING, EROSION, AND SEDIMENT CONTROL IMPROVEMENT ONLY.

CONTROL MEASURE NOTES

- (VTC) VEHICLE TRACKING CONTROL
- (SR) SURFACE ROUGHENING
- (TSC) TEMPORARY STREAM CROSSING
- (SF) SILT FENCE
- (CF) CONSTRUCTION FENCE
- (ECB) EROSION CONTROL BLANKET INSTALLATION (CURLEX EXCELSIOR)
- (SID) SLOPE INTERCEPT DITCH
- (CM) CONSTRUCTION MARKER
- (SM) SEED AND MULCH
- (LOC) LIMITS OF CONSTRUCTION (SEE PROPOSED EASEMENT BOUNDARY / TEMPORARY WORKSPACE BOUNDARY BELOW)

(1) ATWS WILL HAVE RESTRICTED USE (NO TOP SOIL STORAGE, HAZARDOUS MATERIAL STORAGE, OR REFUELING WILL OCCUR).

(2) ITEMS IN LIGHT GRAY WERE INCLUDED IN THE INITIAL/INTERIM PLAN SET BUT HAVE BEEN REMOVED IN THE FINAL PLAN SET.

ENVIRONMENTAL NOTES / LEGEND

(1) ENVIRONMENTAL EXCLUSION AREAS WILL BE MARKED BY EXCLUSION FENCING AND SIGNAGE.

BILL OF MATERIALS

REFERENCE DRAWINGS

REF.	DWG. NUMBER	DWG. TITLE

CP FEATURE DATA

REVISIONS

REV.	DATE	BY	DESCRIPTION
0	10/24/25	PD	ISSUED FOR USE

DENVER EXPANSION PROJECT - SCOTT CITY TO DENVER PIPELINE

ONEOK
t: +1 (918) 588-7000
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MAGELLAN PIPELINE COMPANY, L.P.

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11330 Clay Road, Suite 550
Houston, TX 77041, USA

exp.

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CHECKED BY:	DS	**SCALE:**	N/A
APPROVED BY:	SS	**SHEET:**	2 OF 95

GRADING, EROSION AND SEDIMENT CONTROL PLANS ARAPAHOE COUNTY, COLORADO

SHEET INDEX

DWG. NUMBER:	1001-02-002-INDEX	**REVISION:**	0

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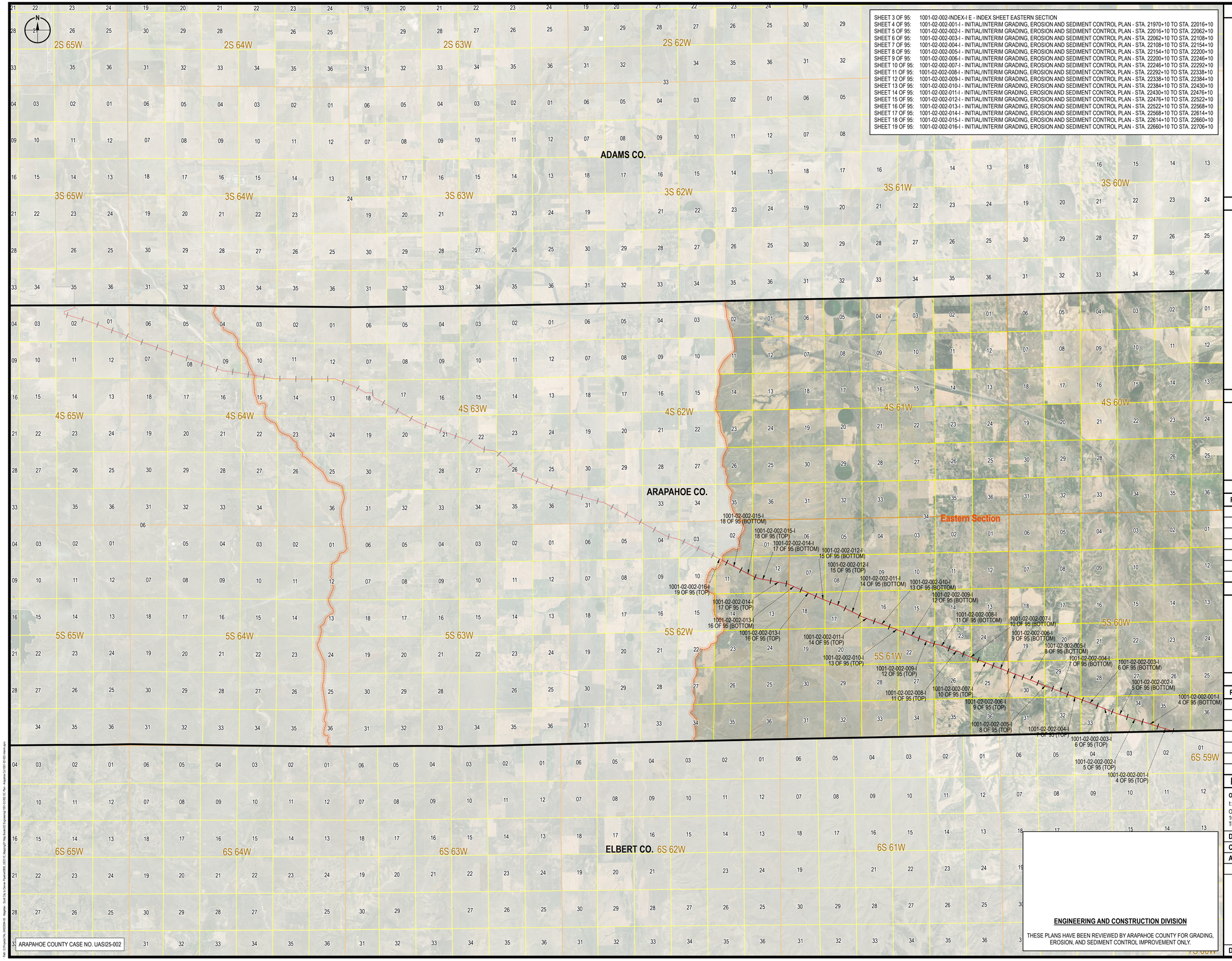

SHEET 3 OF 95:	1001-02-002-INDEX-I E - INDEX SHEET EASTERN SECTION
SHEET 4 OF 95:	1001-02-002-001-I - INITIAL/INTERIM GRADING, EROSION AND SEDIMENT CONTROL PLAN - STA. 21970+10 TO STA. 22016+10
SHEET 5 OF 95:	1001-02-002-002-I - INITIAL/INTERIM GRADING, EROSION AND SEDIMENT CONTROL PLAN - STA. 22016+10 TO STA. 22062+10
SHEET 6 OF 95:	1001-02-002-003-I - INITIAL/INTERIM GRADING, EROSION AND SEDIMENT CONTROL PLAN - STA. 22062+10 TO STA. 22108+10
SHEET 7 OF 95:	1001-02-002-004-I - INITIAL/INTERIM GRADING, EROSION AND SEDIMENT CONTROL PLAN - STA. 22108+10 TO STA. 22154+10
SHEET 8 OF 95:	1001-02-002-005-I - INITIAL/INTERIM GRADING, EROSION AND SEDIMENT CONTROL PLAN - STA. 22154+10 TO STA. 22200+10
SHEET 9 OF 95:	1001-02-002-006-I - INITIAL/INTERIM GRADING, EROSION AND SEDIMENT CONTROL PLAN - STA. 22200+10 TO STA. 22246+10
SHEET 10 OF 95:	1001-02-002-007-I - INITIAL/INTERIM GRADING, EROSION AND SEDIMENT CONTROL PLAN - STA. 22246+10 TO STA. 22292+10
SHEET 11 OF 95:	1001-02-002-008-I - INITIAL/INTERIM GRADING, EROSION AND SEDIMENT CONTROL PLAN - STA. 22292+10 TO STA. 22338+10
SHEET 12 OF 95:	1001-02-002-009-I - INITIAL/INTERIM GRADING, EROSION AND SEDIMENT CONTROL PLAN - STA. 22338+10 TO STA. 22384+10
SHEET 13 OF 95:	1001-02-002-010-I - INITIAL/INTERIM GRADING, EROSION AND SEDIMENT CONTROL PLAN - STA. 22384+10 TO STA. 22430+10
SHEET 14 OF 95:	1001-02-002-011-I - INITIAL/INTERIM GRADING, EROSION AND SEDIMENT CONTROL PLAN - STA. 22430+10 TO STA. 22476+10
SHEET 15 OF 95:	1001-02-002-012-I - INITIAL/INTERIM GRADING, EROSION AND SEDIMENT CONTROL PLAN - STA. 22476+10 TO STA. 22522+10
SHEET 16 OF 95:	1001-02-002-013-I - INITIAL/INTERIM GRADING, EROSION AND SEDIMENT CONTROL PLAN - STA. 22522+10 TO STA. 22568+10
SHEET 17 OF 95:	1001-02-002-014-I - INITIAL/INTERIM GRADING, EROSION AND SEDIMENT CONTROL PLAN - STA. 22568+10 TO STA. 22614+10
SHEET 18 OF 95:	1001-02-002-015-I - INITIAL/INTERIM GRADING, EROSION AND SEDIMENT CONTROL PLAN - STA. 22614+10 TO STA. 22660+10
SHEET 19 OF 95:	1001-02-002-016-I - INITIAL/INTERIM GRADING, EROSION AND SEDIMENT CONTROL PLAN - STA. 22660+10 TO STA. 22706+10

ARAPAHOE COUNTY CASE NO. UASI25-002

ENGINEERING AND CONSTRUCTION DIVISION

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- (VTC) VEHICLE TRACKING CONTROL
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- (SID) SLOPE INTERCEPT DITCH
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- (LOC) LIMITS OF CONSTRUCTION (SEE PROPOSED EASEMENT BOUNDARY / TEMPORARY WORKSPACE BOUNDARY BELOW)

(1) ATWS WILL HAVE RESTRICTED USE (NO TOP SOIL STORAGE, HAZARDOUS MATERIAL STORAGE, OR REFUELING WILL OCCUR).

ENVIRONMENTAL NOTES / LEGEND

(1) ENVIRONMENTAL EXCLUSION AREAS WILL BE MARKED BY EXCLUSION FENCING AND SIGNAGE.

0 5,000 10,000 20,000 US FEET

TRANSVERSE MERCATOR, NAD 1983 BLM ZONE 13N, U.S. FOOT

BILL OF MATERIALS

REFERENCE DRAWINGS

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CP FEATURE DATA

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4	10/24/25	PD	UPDATED AGENCY COMMENTS

DENVER EXPANSION PROJECT - SCOTT CITY TO DENVER PIPELINE

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Houston, TX 77041, USA

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APPROVED BY:	SS	SHEET:	3 OF 95

INITIAL/INTERIM GRADING, EROSION AND SEDIMENT CONTROL PLAN ARAPAHOE COUNTY, COLORADO

INDEX SHEET - EASTERN SECTION

DWG. NUMBER:	1001-02-002-INDEX-I E	REVISION:	4

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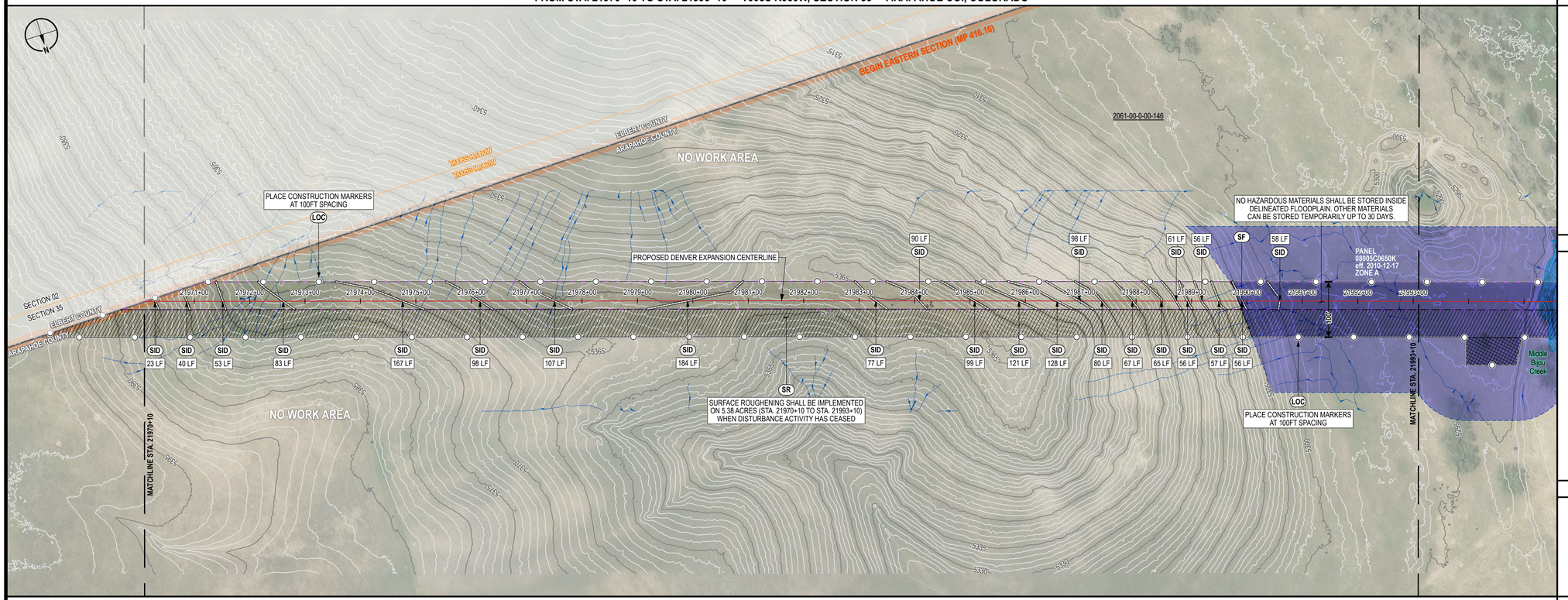

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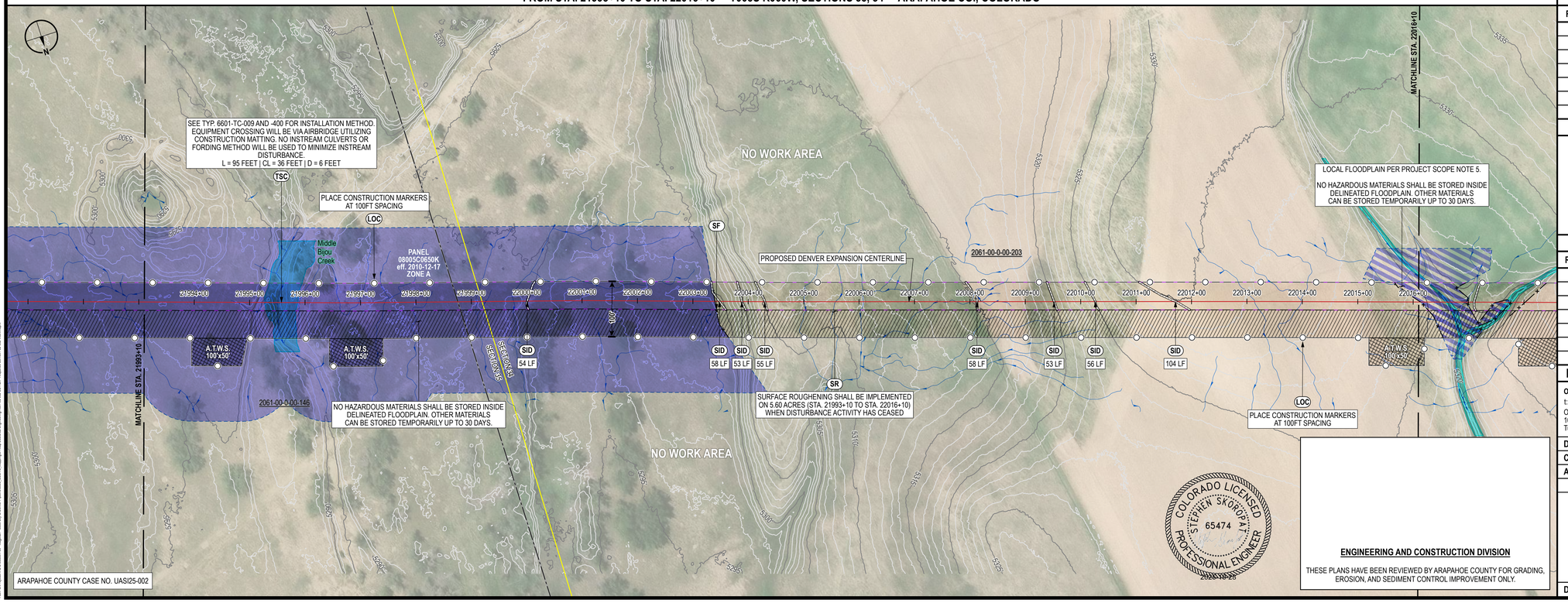

CONTROL MEASURE NOTES

- (VTC) VEHICLE TRACKING CONTROL
- (SR) SURFACE ROUGHENING
- (TSC) TEMPORARY STREAM CROSSING
- (SF) SILT FENCE
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- PROPOSED CENTERLINE
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- ADDITIONAL TEMPORARY WORKSPACE
- NEW PERMANENT SITE
- NEW PERMANENT ACCESS
- ACCESS ROAD
- CONSTRUCTION MARKER
- SLOPE INTERCEPT DITCH
- SILT FENCE
- CONSTRUCTION FENCE
- VEHICLE TRACKING CONTROL
- BORE OR HDD ENTRY/EXIT
- FOREIGN PIPELINE
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- LOCAL FLOODPLAIN DELINEATION
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- PROPERTY BOUNDARY
- SECTION BOUNDARY
- TOWNSHIP BOUNDARY
- COUNTY BOUNDARY

0 100 200 400 US FEET

TRANSVERSE MERCATOR, NAD 1983 BLM ZONE 13N, U.S. FOOT

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DENVER EXPANSION PROJECT - SCOTT CITY TO DENVER PIPELINE

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COLORADO LICENSED STEPHEN SKOROPAT 65474 PROFESSIONAL ENGINEER

ENGINEERING AND CONSTRUCTION DIVISION

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INITIAL/INTERIM GRADING, EROSION AND SEDIMENT CONTROL PLAN ARAPAHOE COUNTY, COLORADO

FROM STA. 21970+10 TO STA 22016+10

DWG. NUMBER: 1001-02-002-001-I

REVISION: 4

Xref: G:\Projects\70k_ONEOK\Mapfiles - Draft\70k to Denver Pipeline\MXD_GEOTIA Mapping\01 Map Books\02 Engineering\1001-02-002-001-I Rev - Arapahoe Co\1001-02-002-Sheets.dwg

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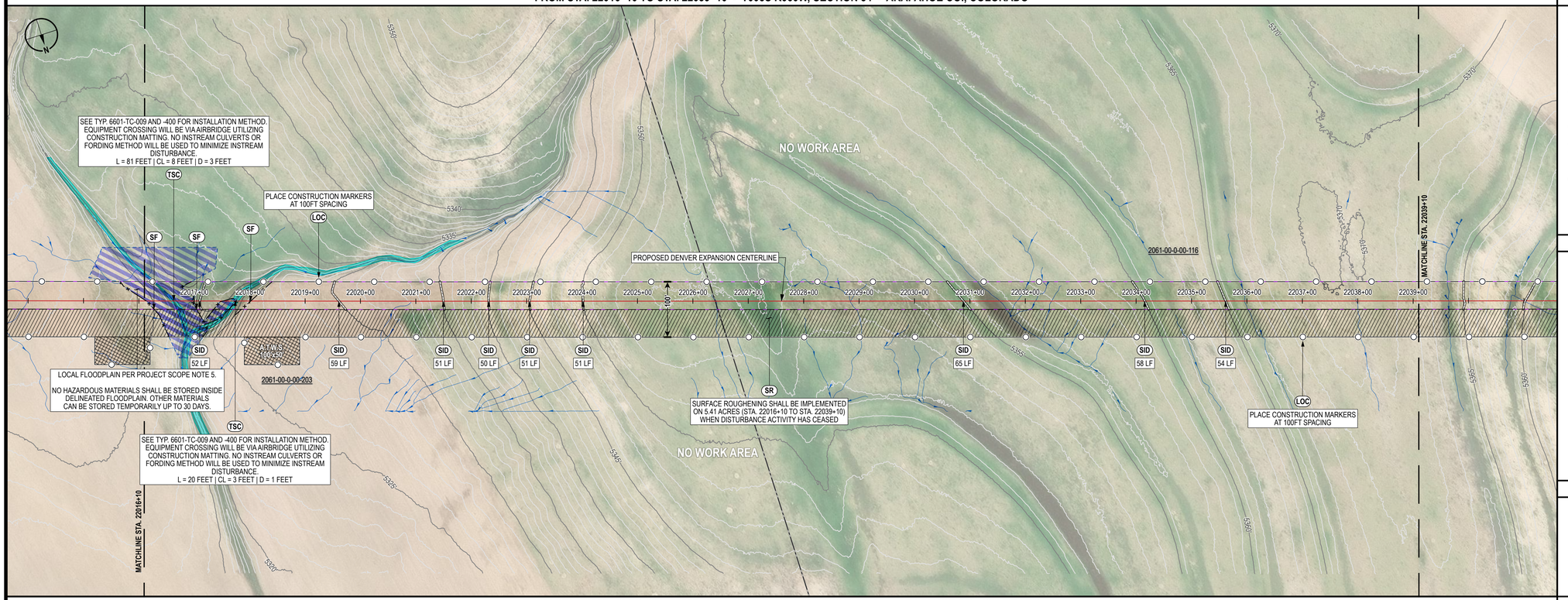

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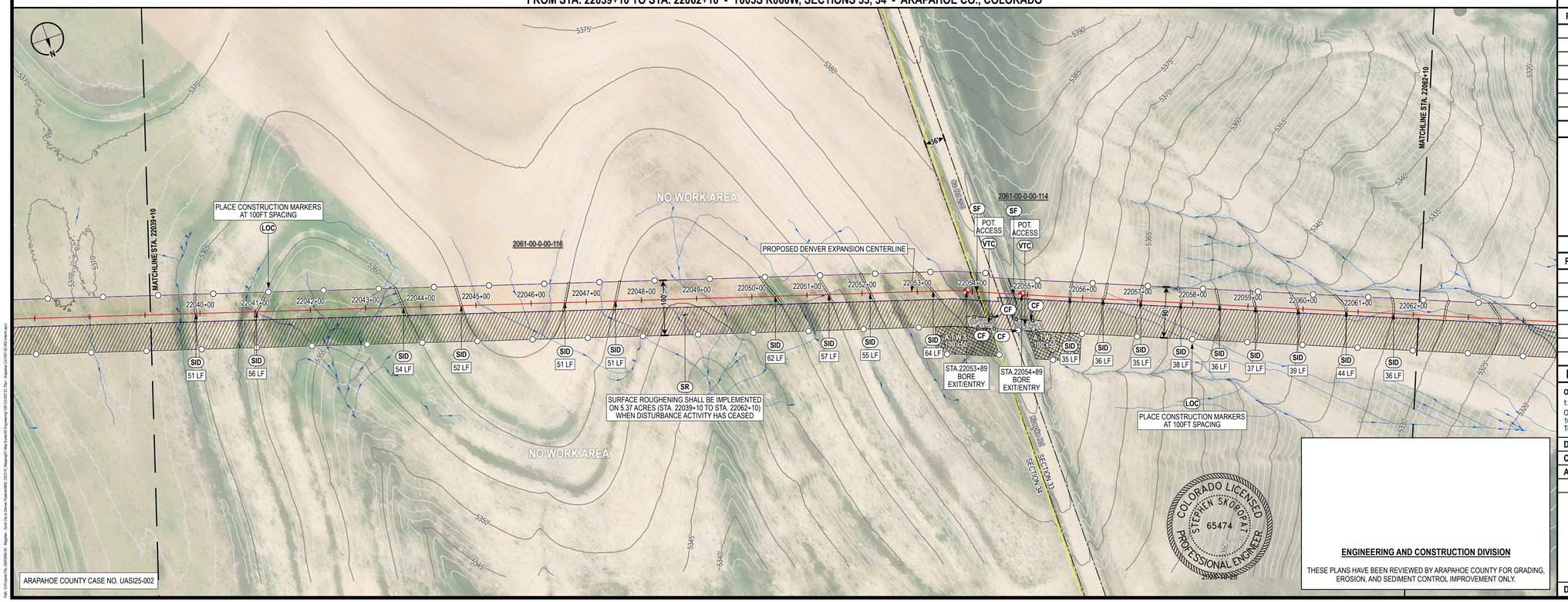

CONTROL MEASURE NOTES

- VTC — VEHICLE TRACKING CONTROL
- SR — SURFACE ROUGHENING
- TSC — TEMPORARY STREAM CROSSING
- SF — SILT FENCE
- CF — CONSTRUCTION FENCE
- SID — SLOPE INTERCEPT DITCH
- CM — CONSTRUCTION MARKER
- LOC — LIMITS OF CONSTRUCTION (SEE PROPOSED EASEMENT BOUNDARY / TEMPORARY WORKSPACE BOUNDARY BELOW)

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- CONSTRUCTION MARKER
- SLOPE INTERCEPT DITCH
- SILT FENCE
- CONSTRUCTION FENCE
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- FEMA FLOODPLAIN ANALYSIS DELINEATION
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0 — 100 — 200 — 400 US FEET

TRANSVERSE MERCATOR, NAD 1983 BLM ZONE 13N, U.S. FOOT

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COLORADO LICENSED — STEPHEN SKOROPAT — 65474 — PROFESSIONAL ENGINEER

ENGINEERING AND CONSTRUCTION DIVISION

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INITIAL/INTERIM GRADING, EROSION AND SEDIMENT CONTROL PLAN ARAPAHOE COUNTY, COLORADO

FROM STA. 22016+10 TO STA 22062+10

DWG. NUMBER: 1001-02-002-002-I — REVISION: 4

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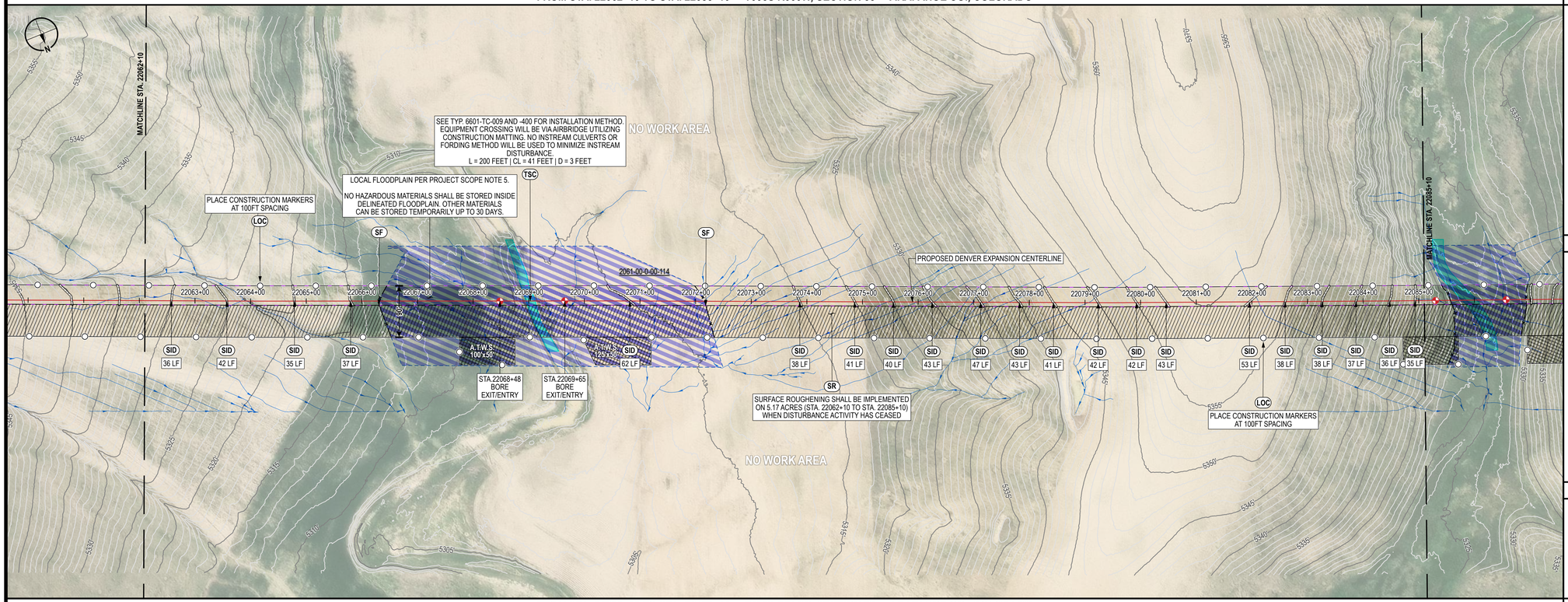
FROM STA. 22062+10 TO STA. 22085+10 - T005S R060W, SECTION 33 - ARAPAHOE CO., COLORADO



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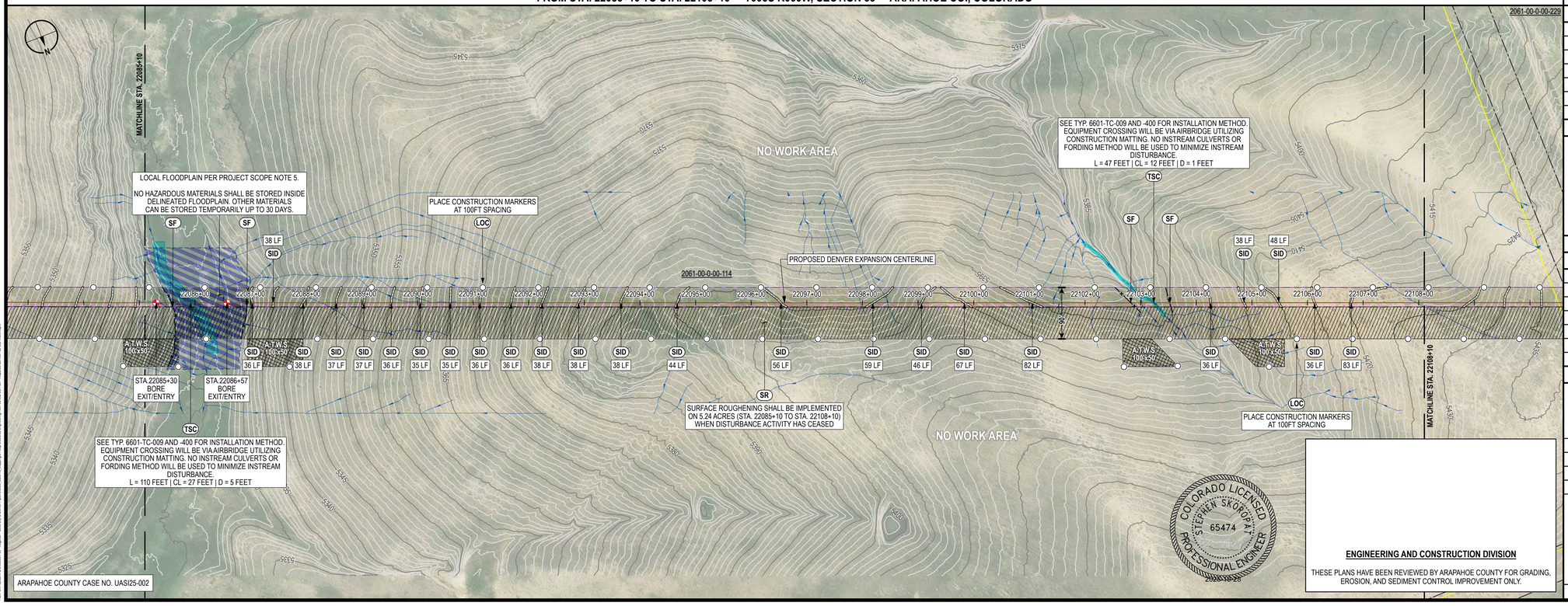

CONTROL MEASURE NOTES

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TRANSVERSE MERCATOR, NAD 1983 BLM ZONE 13N, U.S. FOOT

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COLORADO LICENSED
STEPHEN SKOROPAT
65474
PROFESSIONAL ENGINEER

ENGINEERING AND CONSTRUCTION DIVISION

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INITIAL/INTERIM GRADING, EROSION AND SEDIMENT CONTROL PLAN ARAPAHOE COUNTY, COLORADO

FROM STA. 22062+10 TO STA 22108+10

DWG. NUMBER:	1001-02-002-003-I	REVISION:	4

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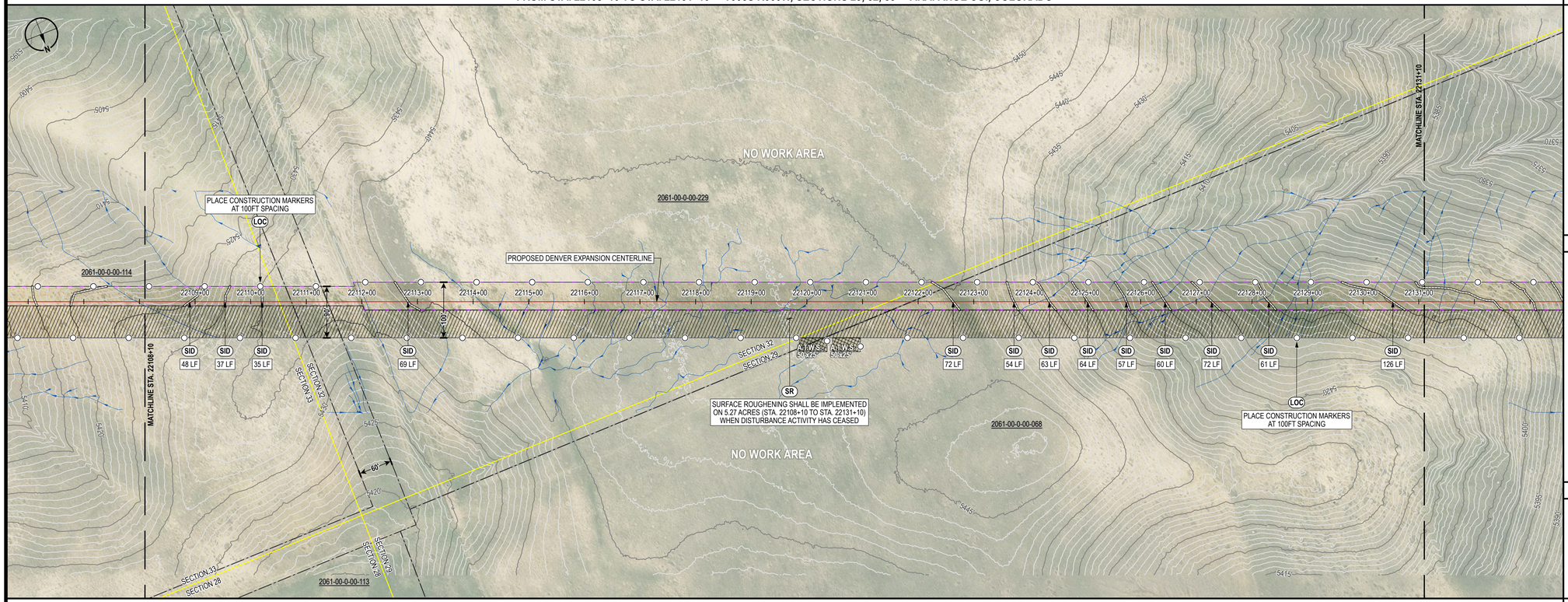

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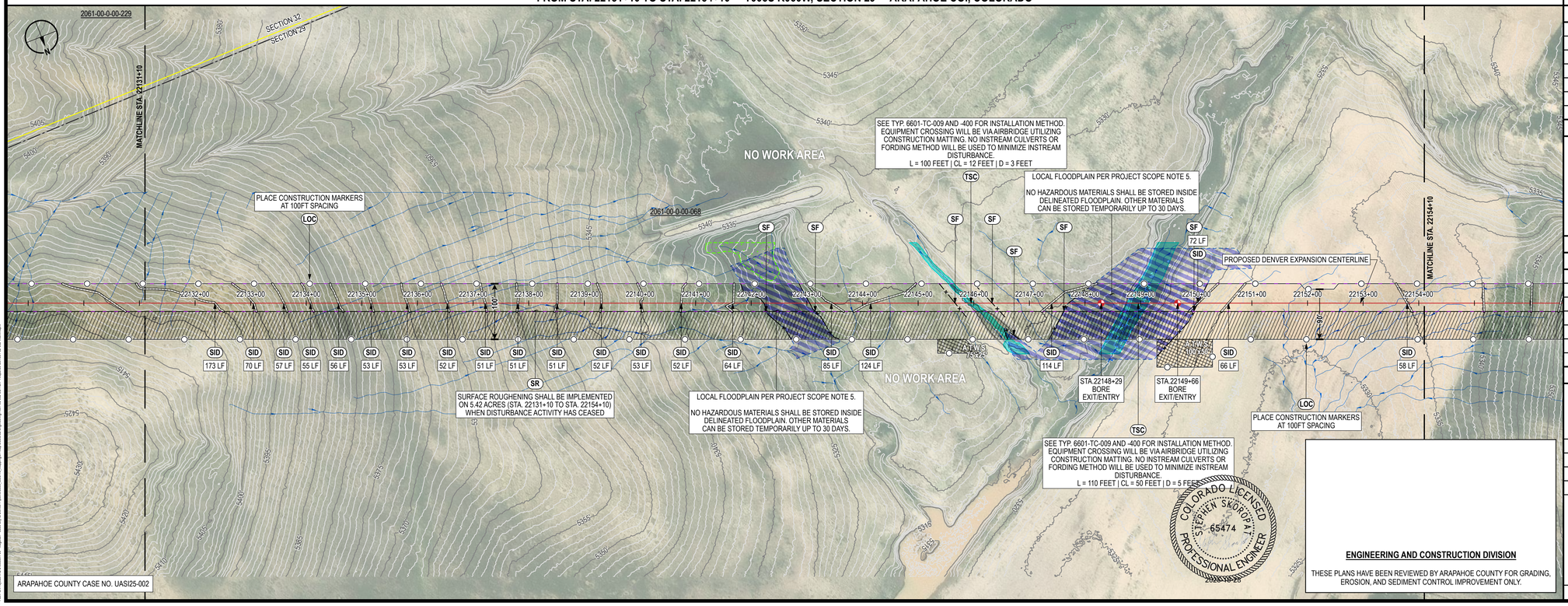

ARAPAHOE COUNTY CASE NO. UASI25-002

CONTROL MEASURE NOTES

- (VTC) VEHICLE TRACKING CONTROL
- (SR) SURFACE ROUGHENING
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0 100 200 400 US FEET

TRANSVERSE MERCATOR, NAD 1983 BLM ZONE 13N, U.S. FOOT

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DENVER EXPANSION PROJECT - SCOTT CITY TO DENVER PIPELINE

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MAGELLAN MIDSTREAM PARTNERS

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Houston, TX 77041, USA

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COLORADO LICENSED
STEPHEN SKOROBAT
65474
PROFESSIONAL ENGINEER

ENGINEERING AND CONSTRUCTION DIVISION

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INITIAL/INTERIM GRADING, EROSION AND SEDIMENT CONTROL PLAN ARAPAHOE COUNTY, COLORADO

FROM STA. 22108+10 TO STA 22154+10

DWG. NUMBER: 1001-02-002-004-I

REVISION: 4

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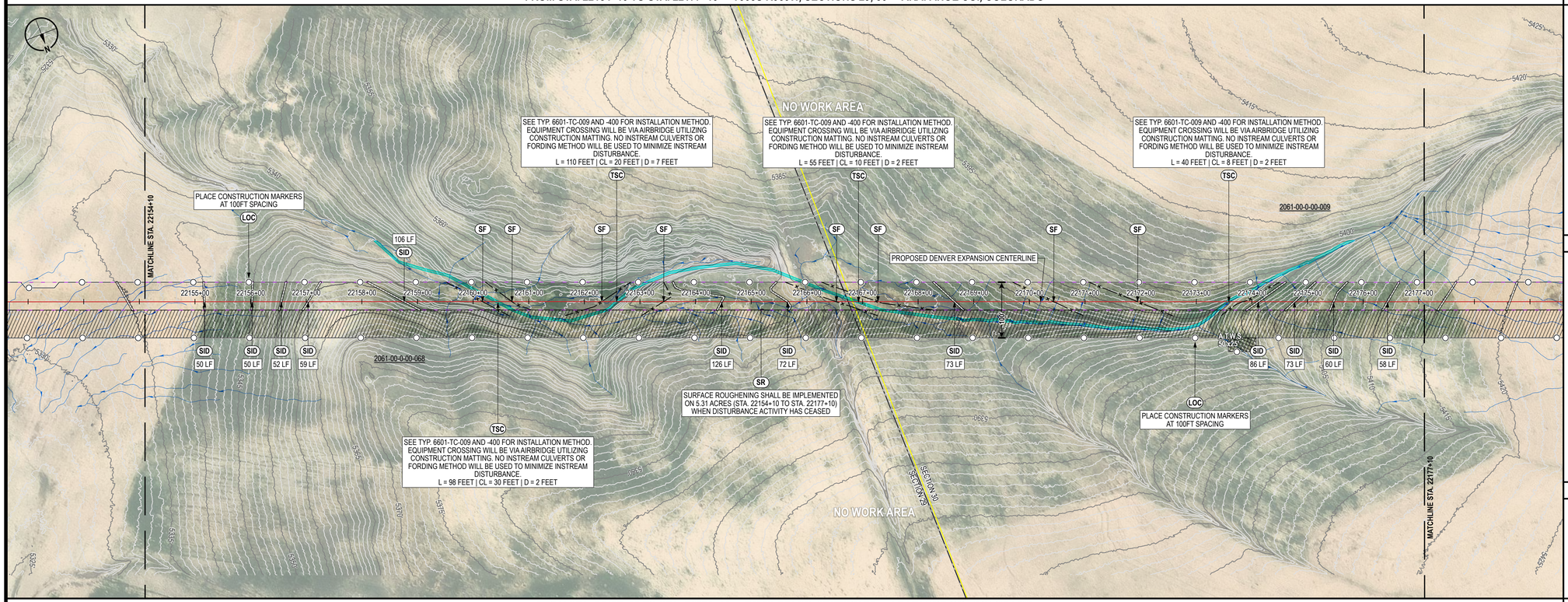
FROM STA. 22154+10 TO STA. 22177+10 - T005S R060W, SECTIONS 29, 30 - ARAPAHOE CO., COLORADO



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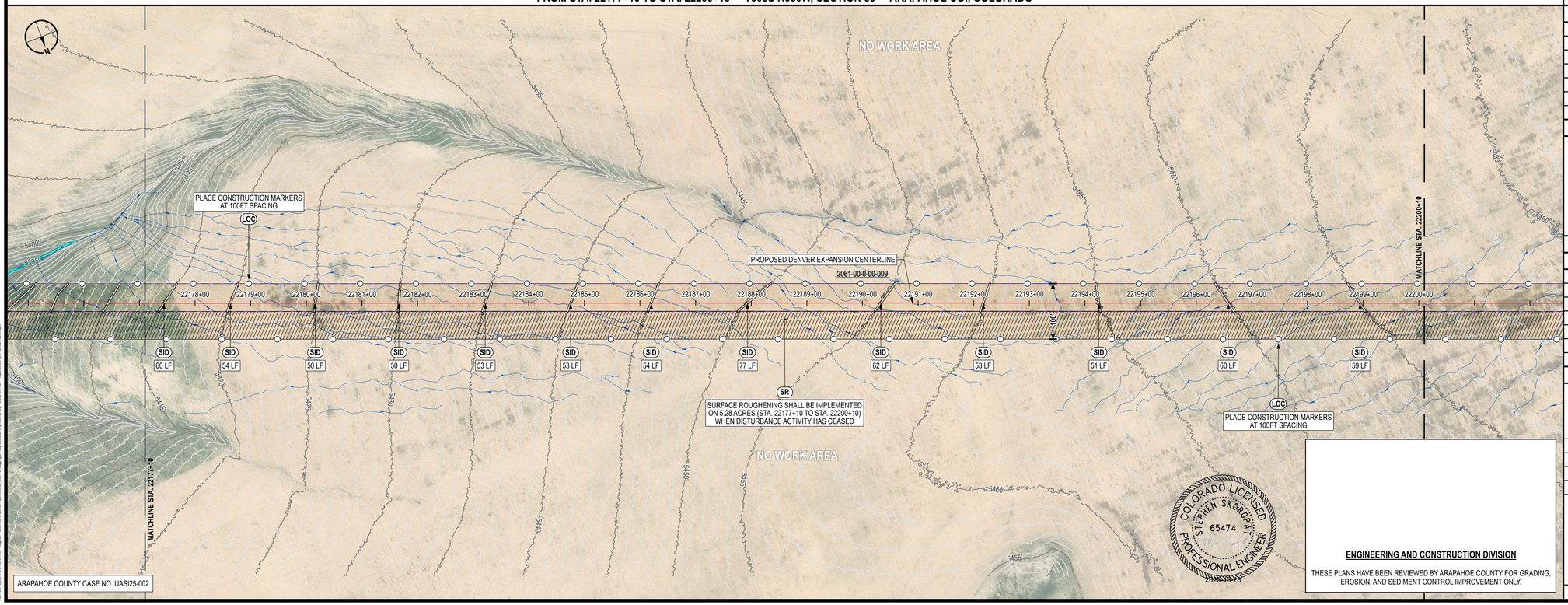

CONTROL MEASURE NOTES

- VTC — VEHICLE TRACKING CONTROL
- SR — SURFACE ROUGHENING
- TSC — TEMPORARY STREAM CROSSING
- SF — SILT FENCE
- CF — CONSTRUCTION FENCE
- SID — SLOPE INTERCEPT DITCH
- CM — CONSTRUCTION MARKER
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0 — 100 — 200 — 400 US FEET

TRANSVERSE MERCATOR, NAD 1983 BLM ZONE 13N, U.S. FOOT

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INITIAL/INTERIM GRADING, EROSION AND SEDIMENT CONTROL PLAN ARAPAHOE COUNTY, COLORADO

FROM STA. 22154+10 TO STA 22200+10

DWG. NUMBER:	1001-02-002-005-I	REVISION:	4

COLORADO LICENSED — STEPHEN SKOROY — 65474 — PROFESSIONAL ENGINEER

ENGINEERING AND CONSTRUCTION DIVISION

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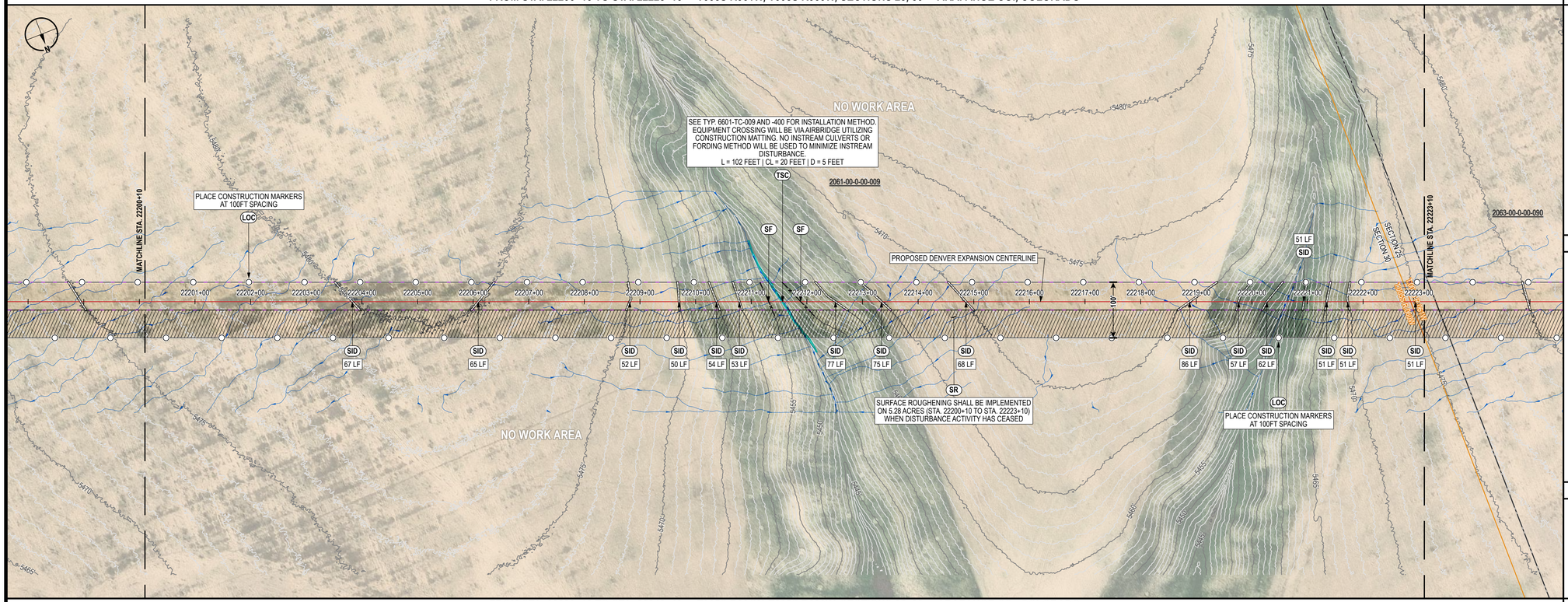
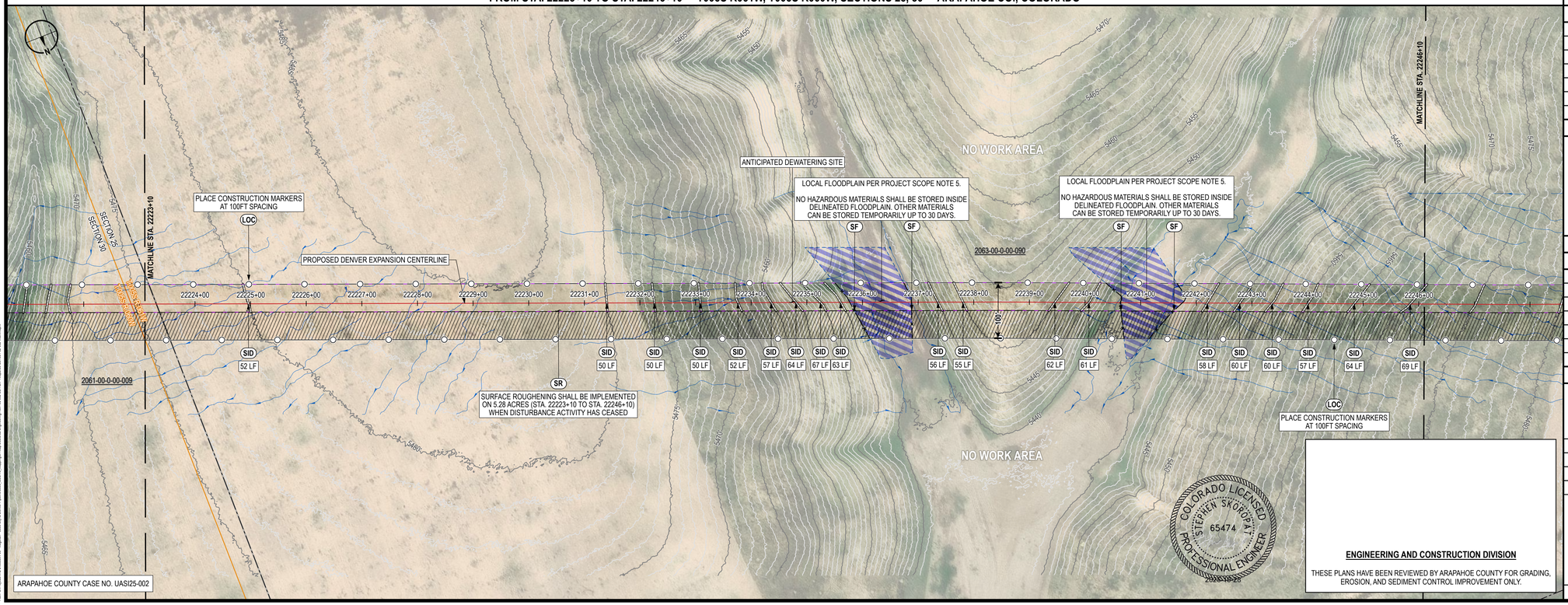
Path: G:\Projects\70s_24003564-00 - Magellan - Scott City to Denver Pipeline\0800_GEO\16_Mapping\01 Map Books\02 Engineering\1001-02-002-005-I.dwg - Arapahoe Co\1001-02-002-005-I-Sheet-4.dwg

FROM STA. 22200+10 TO STA. 22223+10 - T005S R061W, T005S R060W, SECTIONS 25, 30 - ARAPAHOE CO., COLORADO



FROM STA. 22223+10 TO STA. 22246+10 - T005S R061W, T005S R060W, SECTIONS 25, 30 - ARAPAHOE CO., COLORADO



CONTROL MEASURE NOTES

- (VTC) VEHICLE TRACKING CONTROL
- (SR) SURFACE ROUGHENING
- (TSC) TEMPORARY STREAM CROSSING
- (SF) SILT FENCE
- (CF) CONSTRUCTION FENCE
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0 100 200 400 US FEET

TRANSVERSE MERCATOR, NAD 1983 BLM ZONE 13N, U.S. FOOT

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INITIAL/INTERIM GRADING, EROSION AND SEDIMENT CONTROL PLAN ARAPAHOE COUNTY, COLORADO

FROM STA. 22200+10 TO STA 22246+10

DWG. NUMBER:	1001-02-002-006-I	REVISION:	4

COLORADO LICENSED STEPHEN SKOROPAT 65474 PROFESSIONAL ENGINEER

ENGINEERING AND CONSTRUCTION DIVISION

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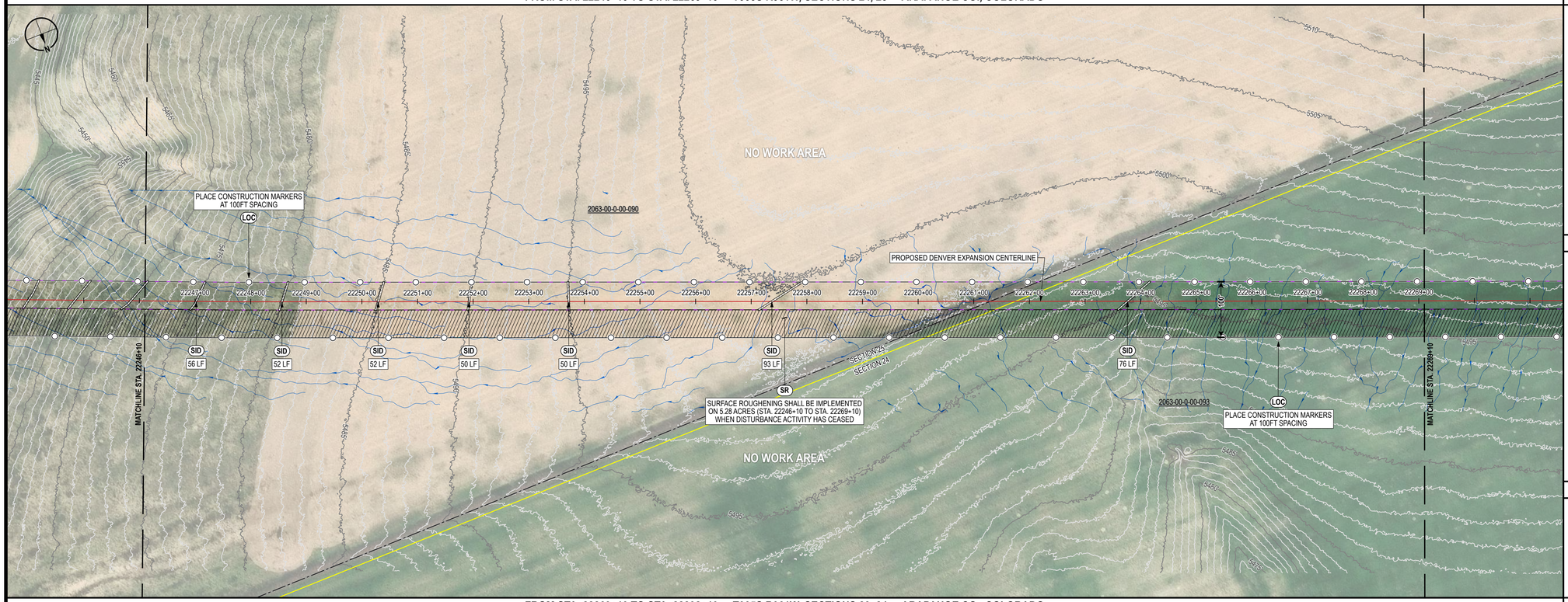
FROM STA. 22246+10 TO STA. 22269+10 - T005S R061W, SECTIONS 24, 25 - ARAPAHOE CO., COLORADO



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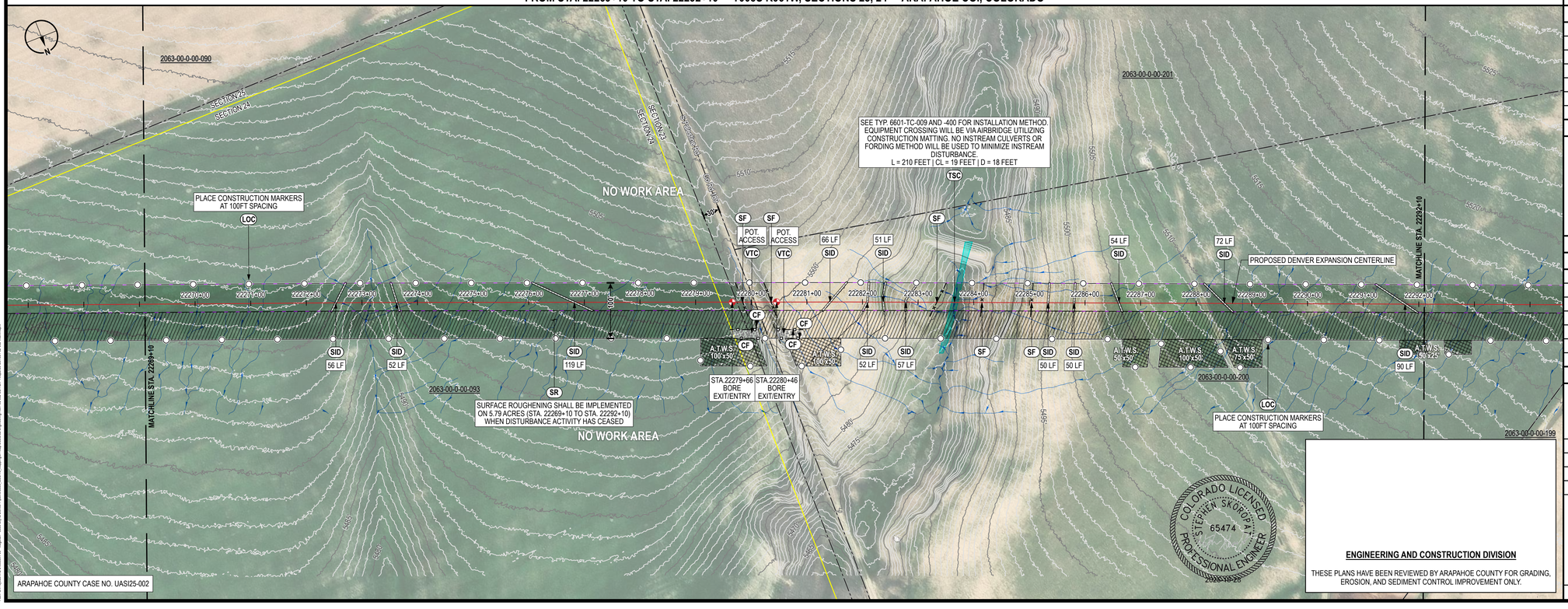

ARAPAHOE COUNTY CASE NO. UASI25-002

CONTROL MEASURE NOTES

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0 100 200 400 US FEET

TRANSVERSE MERCATOR, NAD 1983 BLM ZONE 13N, U.S. FOOT

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COLORADO LICENSED STEPHEN SKÓROS 65474 PROFESSIONAL ENGINEER

ENGINEERING AND CONSTRUCTION DIVISION

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INITIAL/INTERIM GRADING, EROSION AND SEDIMENT CONTROL PLAN ARAPAHOE COUNTY, COLORADO

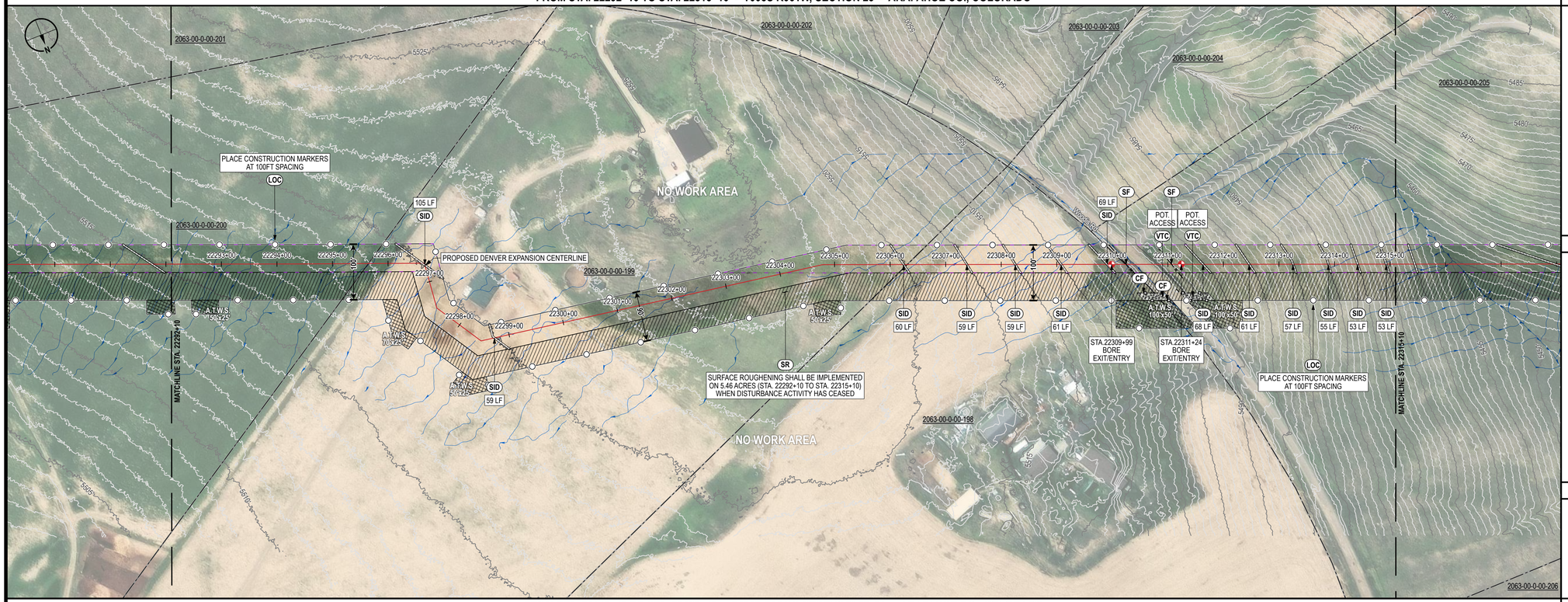
FROM STA. 22246+10 TO STA 22292+10

DWG. NUMBER: 1001-02-002-007-I

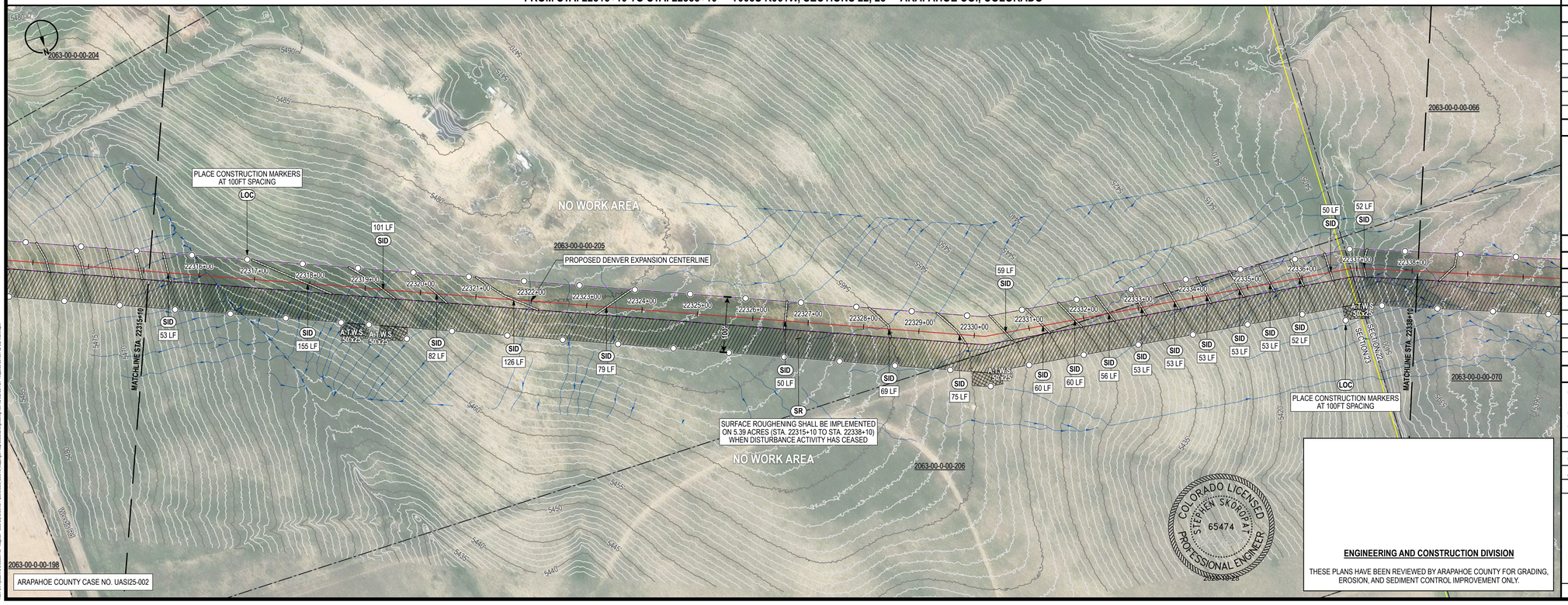
REVISION: 4

Xref: G:\Projects\70s_ONEOK\94-GE - Magellan - Scott City to Denver Pipeline\0002_GEO\16_Mapping\01 Map Books\02 Engineering\1001-02-002-007-I Rev - Arapahoe Co\1001-02-002-Sheets.dwg

FROM STA. 22292+10 TO STA. 22315+10 - T005S R061W, SECTION 23 - ARAPAHOE CO., COLORADO



FROM STA. 22315+10 TO STA. 22338+10 - T005S R061W, SECTIONS 22, 23 - ARAPAHOE CO., COLORADO



CONTROL MEASURE NOTES

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INITIAL/INTERIM GRADING, EROSION AND SEDIMENT CONTROL PLAN ARAPAHOE COUNTY, COLORADO

FROM STA. 22292+10 TO STA 22338+10

DWG. NUMBER:	1001-02-002-008-I	REVISION:	4

COLORADO LICENSED STEPHEN SKOROCKI 65474 PROFESSIONAL ENGINEER

ENGINEERING AND CONSTRUCTION DIVISION

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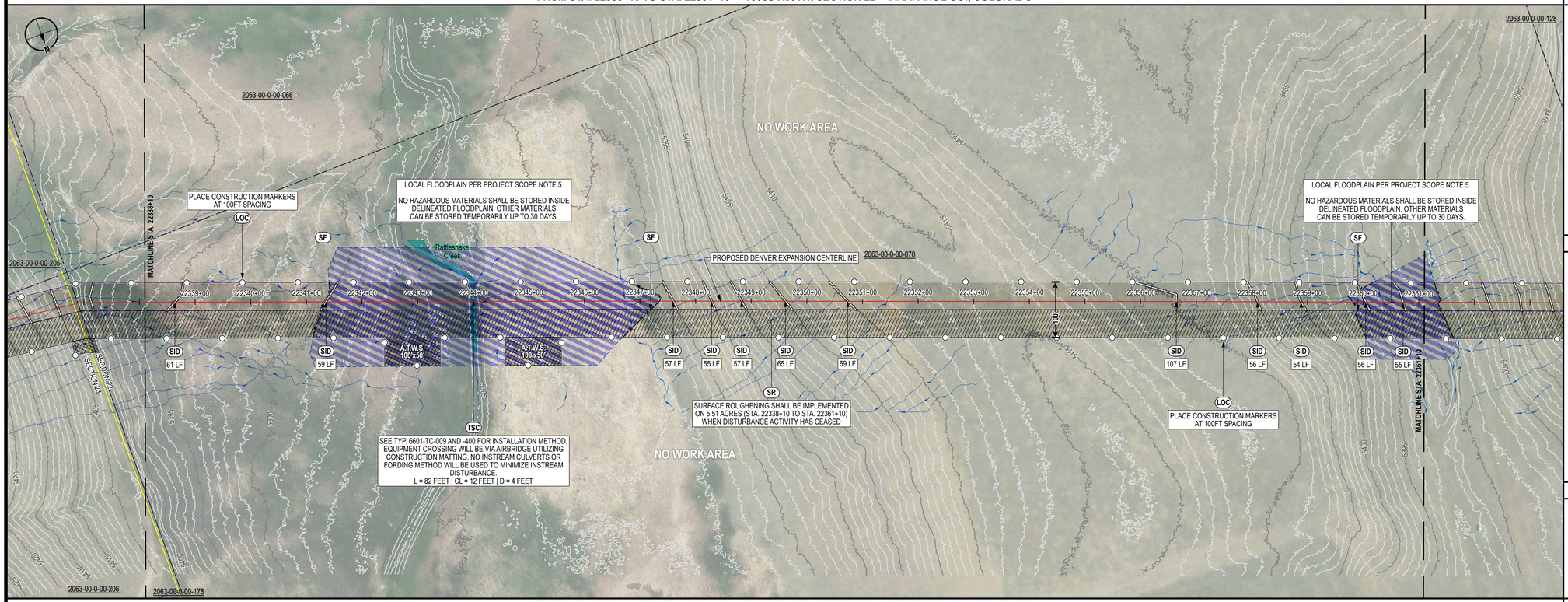

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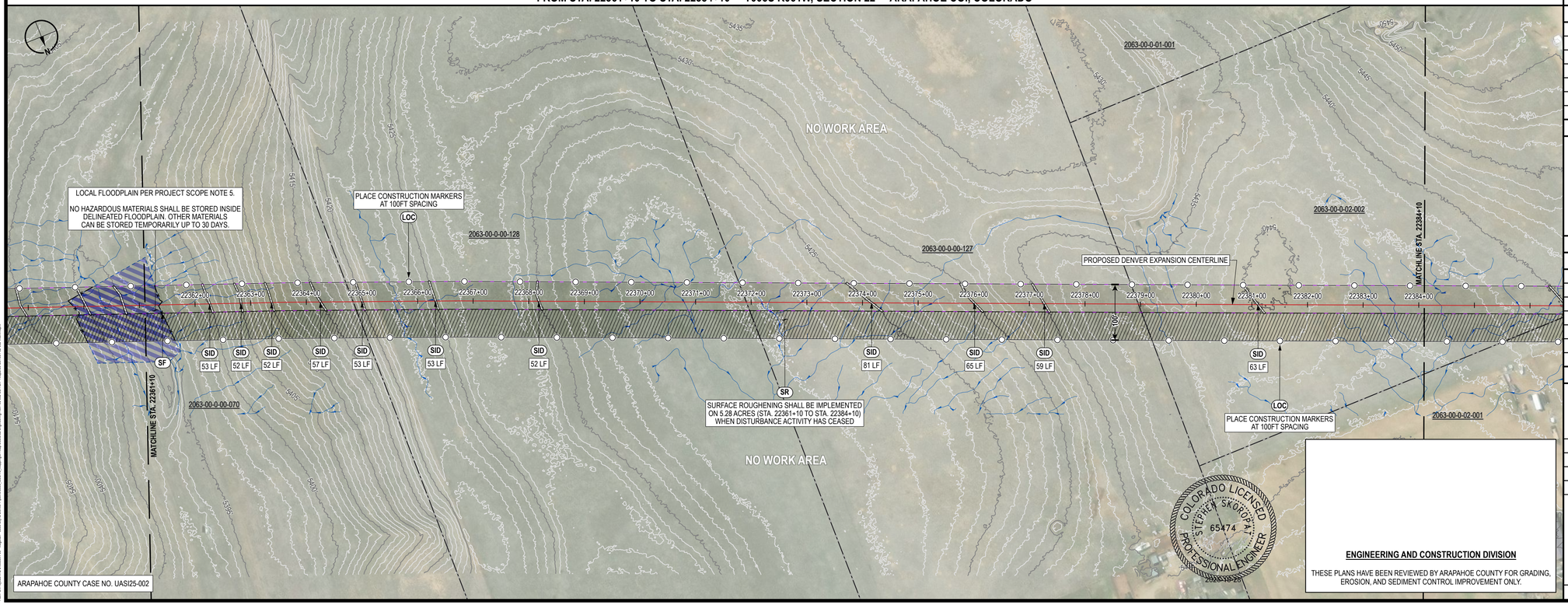

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COLORADO LICENSED STEPHEN SKOROS 65474 PROFESSIONAL ENGINEER

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INITIAL/INTERIM GRADING, EROSION AND SEDIMENT CONTROL PLAN ARAPAHOE COUNTY, COLORADO

FROM STA. 22338+10 TO STA 22384+10

DWG. NUMBER:	1001-02-002-009-I	REVISION:	4

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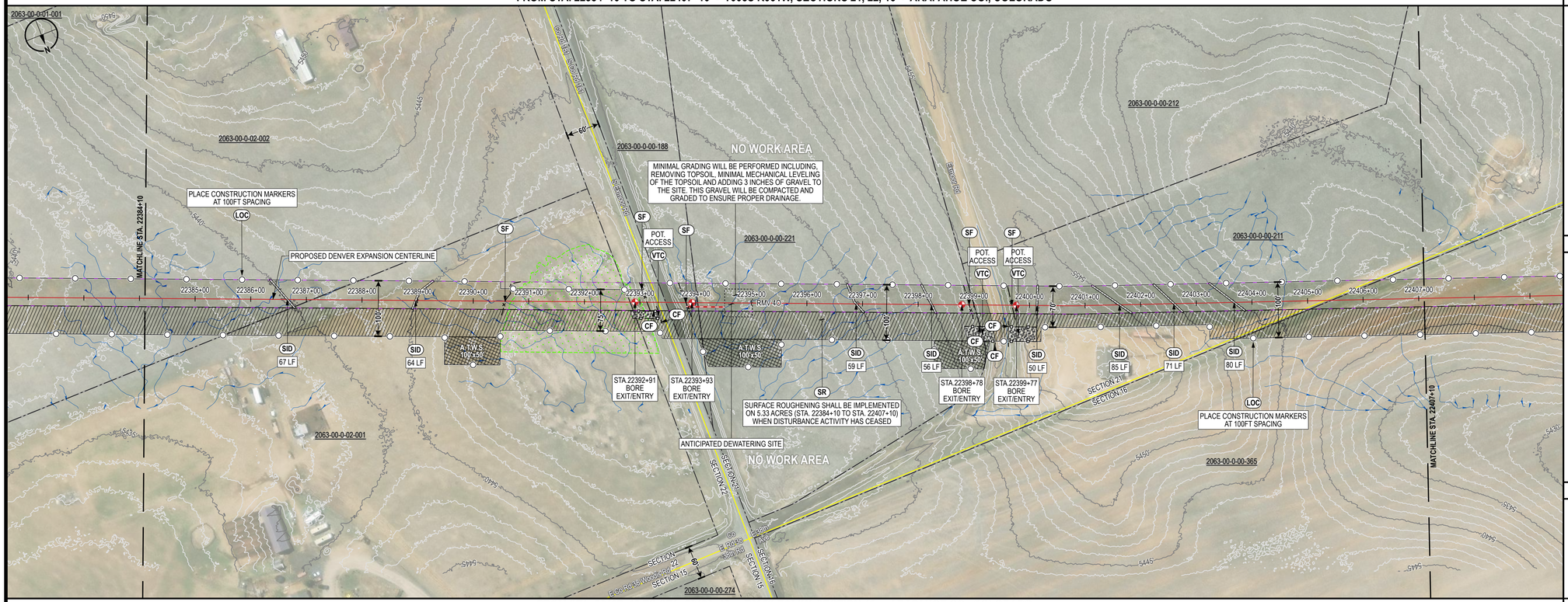
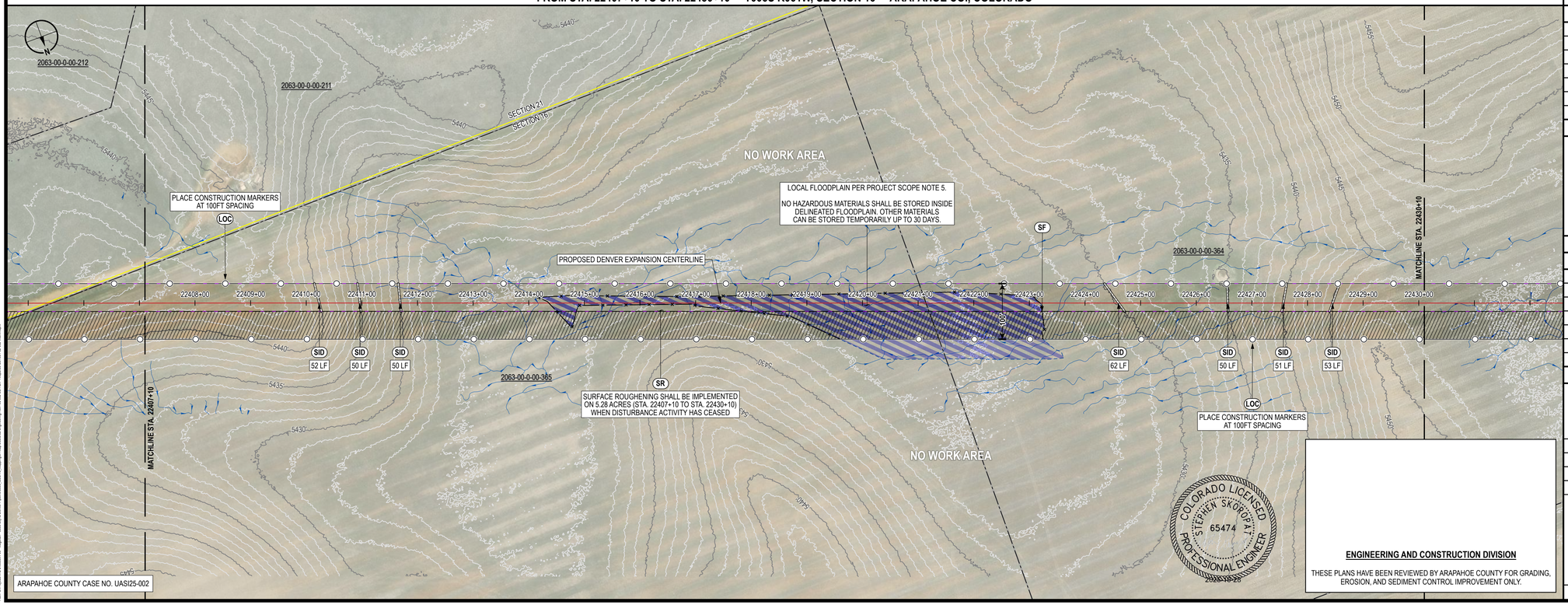
FROM STA. 22384+10 TO STA. 22407+10 - T005S R061W, SECTIONS 21, 22, 16 - ARAPAHOE CO., COLORADO



FROM STA. 22407+10 TO STA. 22430+10 - T005S R061W, SECTION 16 - ARAPAHOE CO., COLORADO



ARAPAHOE COUNTY CASE NO. UASI25-002

CONTROL MEASURE NOTES

- (VTC) VEHICLE TRACKING CONTROL
- (SR) SURFACE ROUGHENING
- (TSC) TEMPORARY STREAM CROSSING
- (SF) SILT FENCE
- (CF) CONSTRUCTION FENCE
- (SID) SLOPE INTERCEPT DITCH
- (CM) CONSTRUCTION MARKER
- (LOC) LIMITS OF CONSTRUCTION (SEE PROPOSED EASEMENT BOUNDARY / TEMPORARY WORKSPACE BOUNDARY BELOW)

(1) ATWS WILL HAVE RESTRICTED USE (NO TOP SOIL STORAGE, HAZARDOUS MATERIAL STORAGE, OR REFUELING WILL OCCUR).

ENVIRONMENTAL NOTES / LEGEND

(1) ENVIRONMENTAL EXCLUSION AREAS WILL BE MARKED BY EXCLUSION FENCING AND SIGNAGE.

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- NEW PERMANENT ACCESS
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- CONSTRUCTION MARKER
- SLOPE INTERCEPT DITCH
- SILT FENCE
- CONSTRUCTION FENCE
- VEHICLE TRACKING CONTROL
- BORE OR HDD ENTRY/EXIT
- FOREIGN PIPELINE
- OTHER UTILITY
- EXISTING EASEMENT
- DRAINAGE FLOW
- WETLAND
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- LOCAL FLOODPLAIN DELINEATION
- FEMA FLOODPLAIN
- FEMA FLOODPLAIN ANALYSIS DELINEATION
- FEMA REGULATORY FLOODWAY
- PROPERTY BOUNDARY
- SECTION BOUNDARY
- TOWNSHIP BOUNDARY
- COUNTY BOUNDARY

0 100 200 400 US FEET

TRANSVERSE MERCATOR, NAD 1983 BLM ZONE 13N, U.S. FOOT

BILL OF MATERIALS

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3	09/26/25	PD	UPDATED ALIGNMENT
4	10/24/25	PD	UPDATED AGENCY COMMENTS

DENVER EXPANSION PROJECT - SCOTT CITY TO DENVER PIPELINE

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t: +1 (918) 588-7000
ONEOK Plaza
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EXP Energy Services Inc.
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11330 Clay Road, Suite 550
Houston, TX 77041, USA

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APPROVED BY:	SS	SHEET:	13 OF 95

INITIAL/INTERIM GRADING, EROSION AND SEDIMENT CONTROL PLAN ARAPAHOE COUNTY, COLORADO

FROM STA. 22384+10 TO STA 22430+10

DWG. NUMBER:	1001-02-002-010-I	REVISION:	4

COLORADO LICENSED STEPHEN SKOROPAT 65474 PROFESSIONAL ENGINEER

ENGINEERING AND CONSTRUCTION DIVISION

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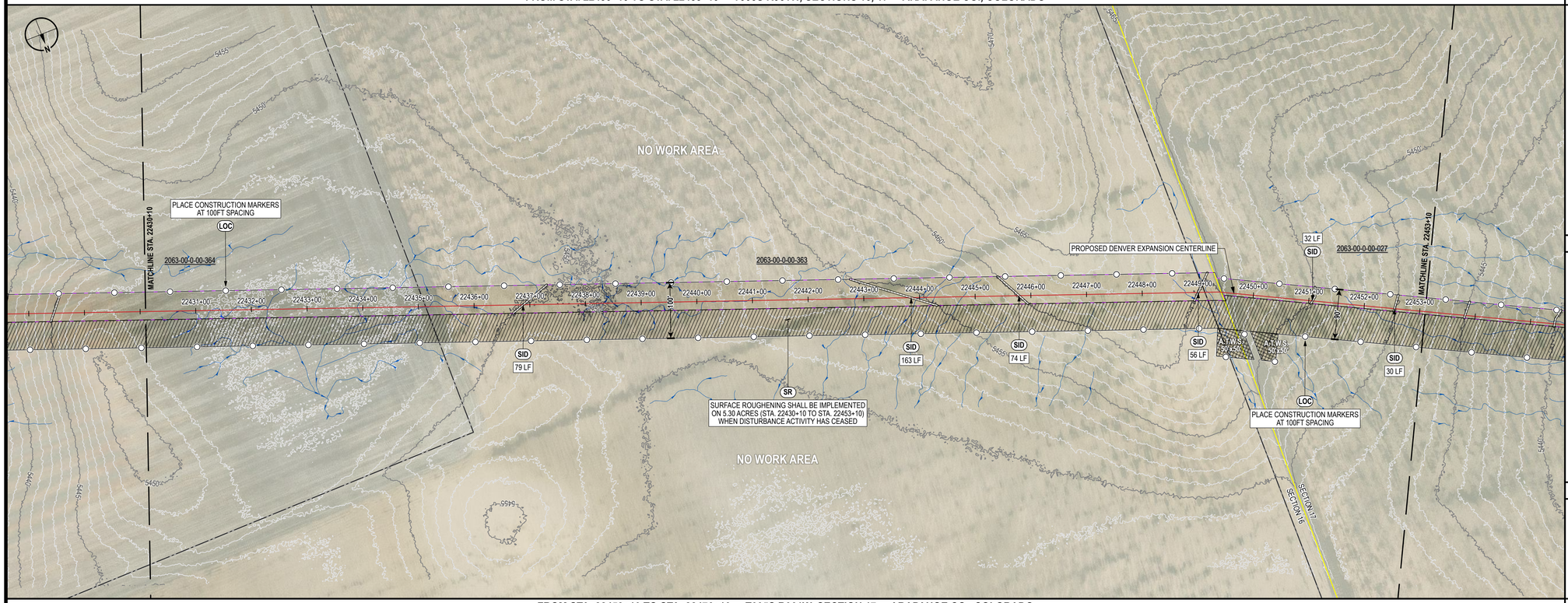
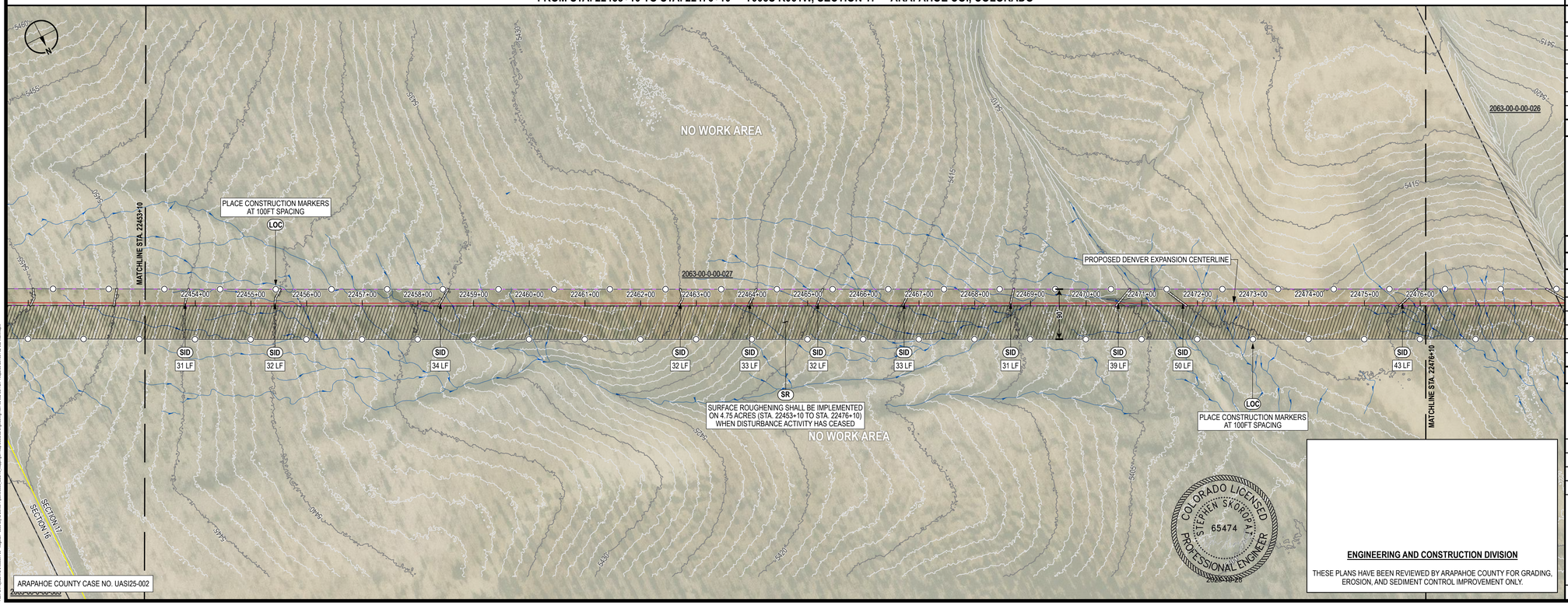
Path: G:\Projects\Tile_JOB\0064-08 - Magellan - Scott City to Denver Pipeline\0002_GIS\10_Mapping\01 Map Books\02 Engineering\1001-02-002-010 Rev - Arapahoe Co\1001-02-002-010-Interim.aprx

FROM STA. 22430+10 TO STA. 22453+10 - T005S R061W, SECTIONS 16, 17 - ARAPAHOE CO., COLORADO



FROM STA. 22453+10 TO STA. 22476+10 - T005S R061W, SECTION 17 - ARAPAHOE CO., COLORADO



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- (SR) SURFACE ROUGHENING
- (TSC) TEMPORARY STREAM CROSSING
- (SF) SILT FENCE
- (CF) CONSTRUCTION FENCE
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0 100 200 400 US FEET

TRANSVERSE MERCATOR, NAD 1983 BLM ZONE 13N, U.S. FOOT

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COLORADO LICENSED
STEPHEN SKOROPAT
65474
PROFESSIONAL ENGINEER

ENGINEERING AND CONSTRUCTION DIVISION

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INITIAL/INTERIM GRADING, EROSION AND SEDIMENT CONTROL PLAN ARAPAHOE COUNTY, COLORADO

FROM STA. 22430+10 TO STA 22476+10

DWG. NUMBER:	1001-02-002-011-I	REVISION:	4

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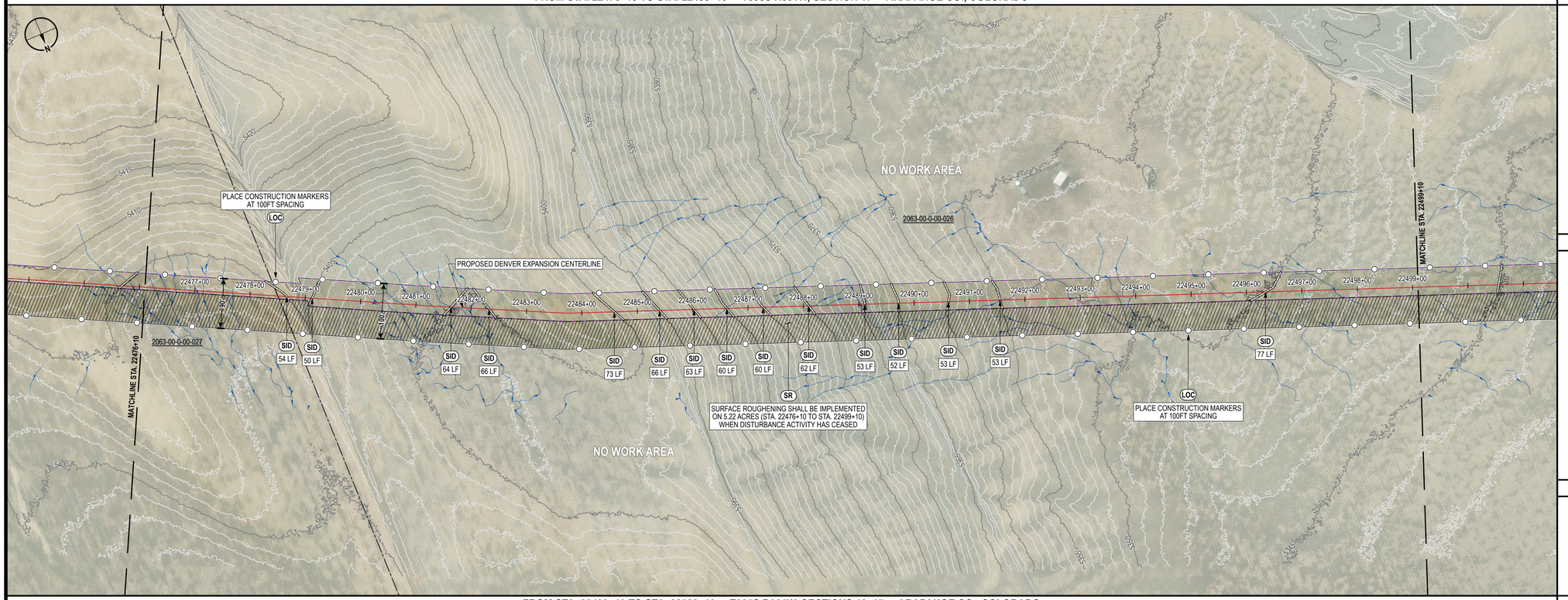
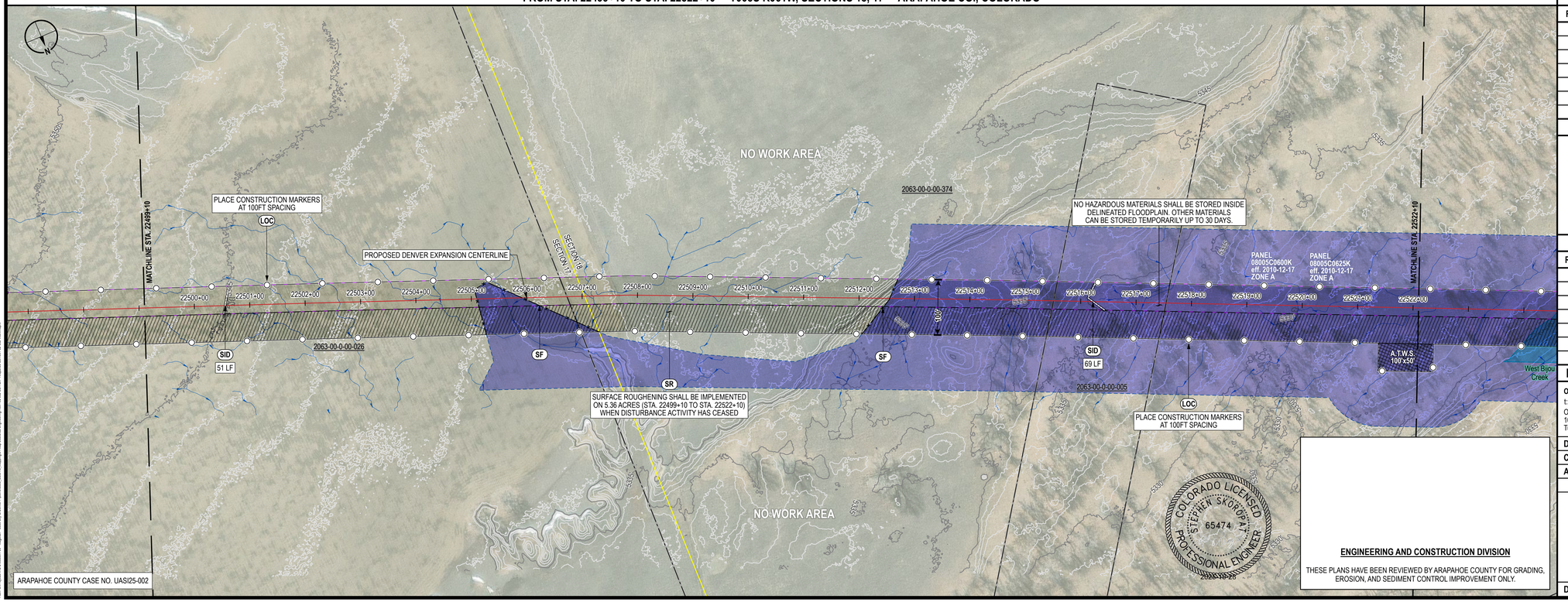
FROM STA. 22476+10 TO STA. 22499+10 - T005S R061W, SECTION 17 - ARAPAHOE CO., COLORADO



FROM STA. 22499+10 TO STA. 22522+10 - T005S R061W, SECTIONS 18, 17 - ARAPAHOE CO., COLORADO



ARAPAHOE COUNTY CASE NO. UASI25-002

CONTROL MEASURE NOTES

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- SR — SURFACE ROUGHENING
- TSC — TEMPORARY STREAM CROSSING
- SF — SILT FENCE
- CF — CONSTRUCTION FENCE
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- SECTION BOUNDARY
- TOWNSHIP BOUNDARY
- COUNTY BOUNDARY

0 — 100 — 200 — 400 US FEET

TRANSVERSE MERCATOR, NAD 1983 BLM ZONE 13N, U.S. FOOT

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DENVER EXPANSION PROJECT - SCOTT CITY TO DENVER PIPELINE

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COLORADO LICENSED — STEPHEN SKOROBA — 65474 — PROFESSIONAL ENGINEER

ENGINEERING AND CONSTRUCTION DIVISION

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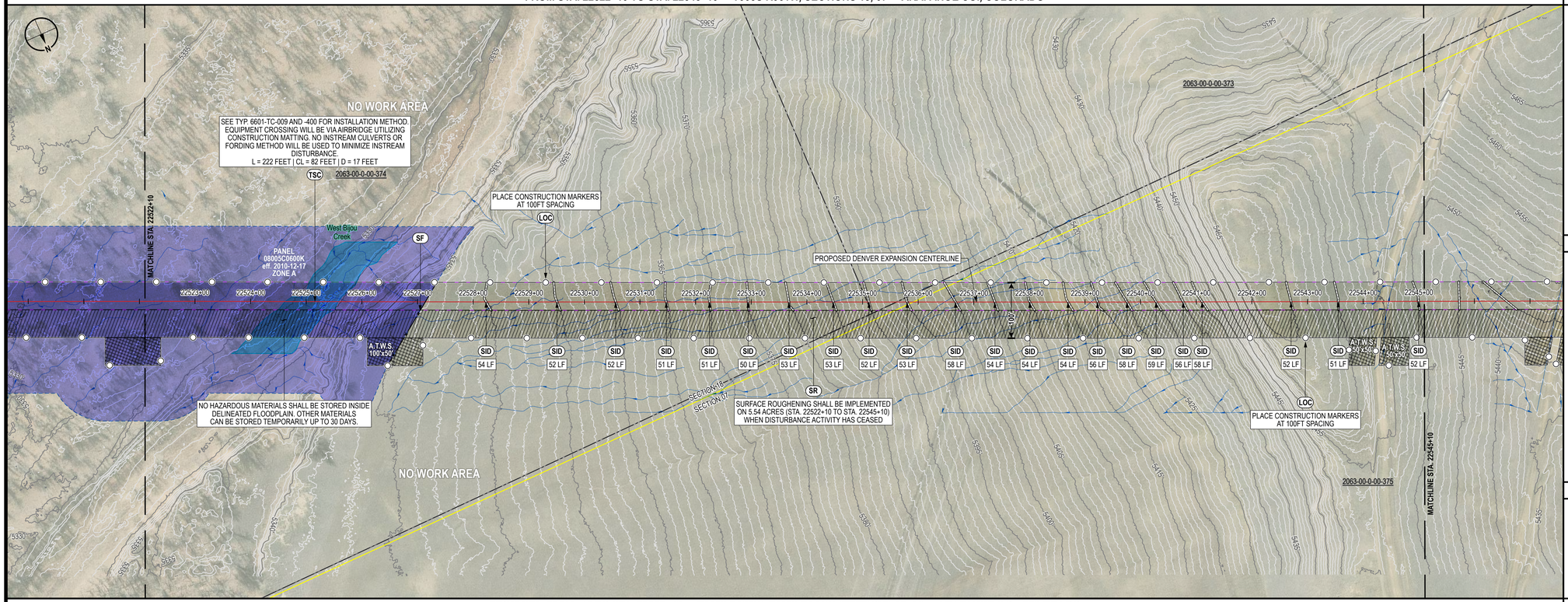
INITIAL/INTERIM GRADING, EROSION AND SEDIMENT CONTROL PLAN ARAPAHOE COUNTY, COLORADO

FROM STA. 22476+10 TO STA 22522+10

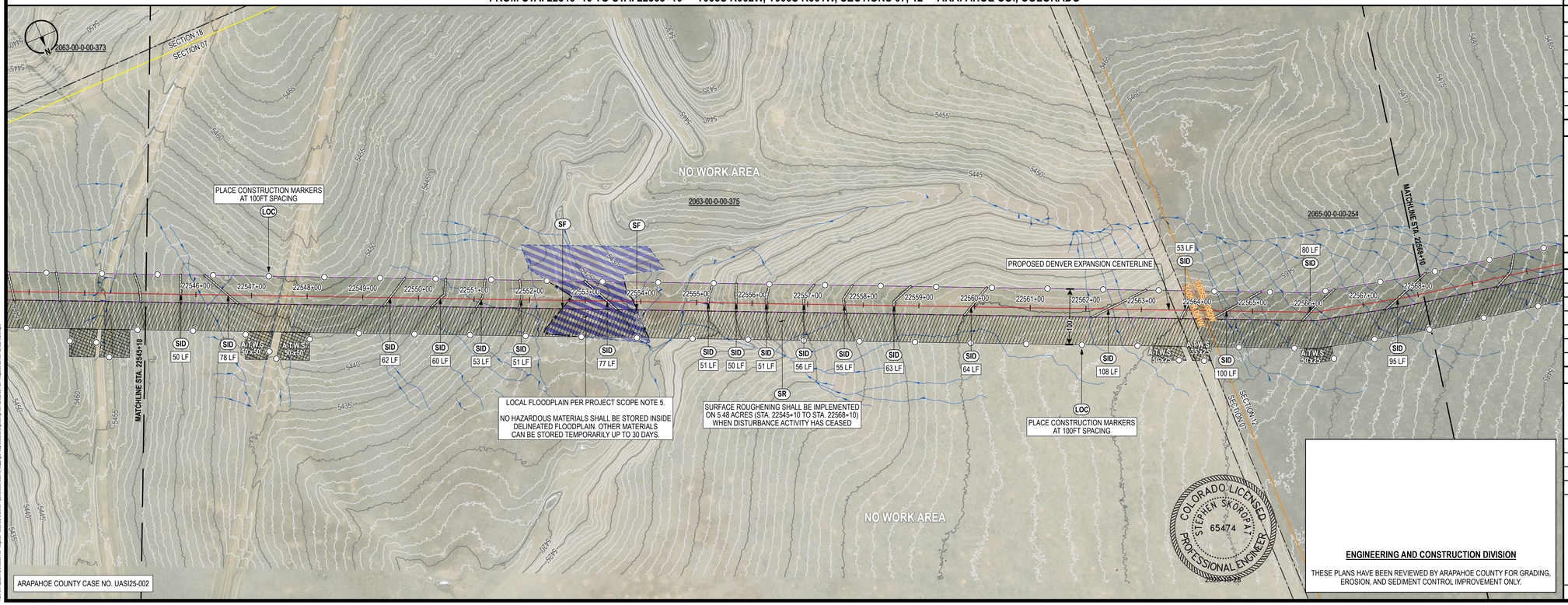
DWG. NUMBER:	1001-02-002-012-I	REVISION:	4

Path: G:\Projects\TSL_0403394-00 - Magellan - Scott City to Denver Pipeline\0800_GEO\16_Mapping\01 Map Books\02 Engineering\1001-02-002-012 Rev - Arapahoe Co\1001-02-002-012-Interim.dwg

FROM STA. 22522+10 TO STA. 22545+10 - T005S R061W, SECTIONS 18, 07 - ARAPAHOE CO., COLORADO



FROM STA. 22545+10 TO STA. 22568+10 - T005S R062W, T005S R061W, SECTIONS 07, 12 - ARAPAHOE CO., COLORADO



CONTROL MEASURE NOTES

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0 100 200 400 US FEET

TRANSVERSE MERCATOR, NAD 1983 BLM ZONE 13N, U.S. FOOT

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ENGINEERING AND CONSTRUCTION DIVISION

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COLORADO LICENSED
STEPHEN SKOROBATY
65474
PROFESSIONAL ENGINEER

INITIAL/INTERIM GRADING, EROSION AND SEDIMENT CONTROL PLAN ARAPAHOE COUNTY, COLORADO

FROM STA. 22522+10 TO STA 22568+10

DWG. NUMBER: 1001-02-002-013-I

REVISION: 4

Path: G:\Projects\ONEOK_PROJECTS\Magellan - Scott City to Denver Pipeline\0002_GEOFILE\Mapping\01 Map Books\02 Engineering\1001-02-002-013-I Rev - Arapahoe Co\1001-02-002-013-I Rev - Arapahoe Co.MXD 10/24/2025 10:48:47 AM Author: PDuncan

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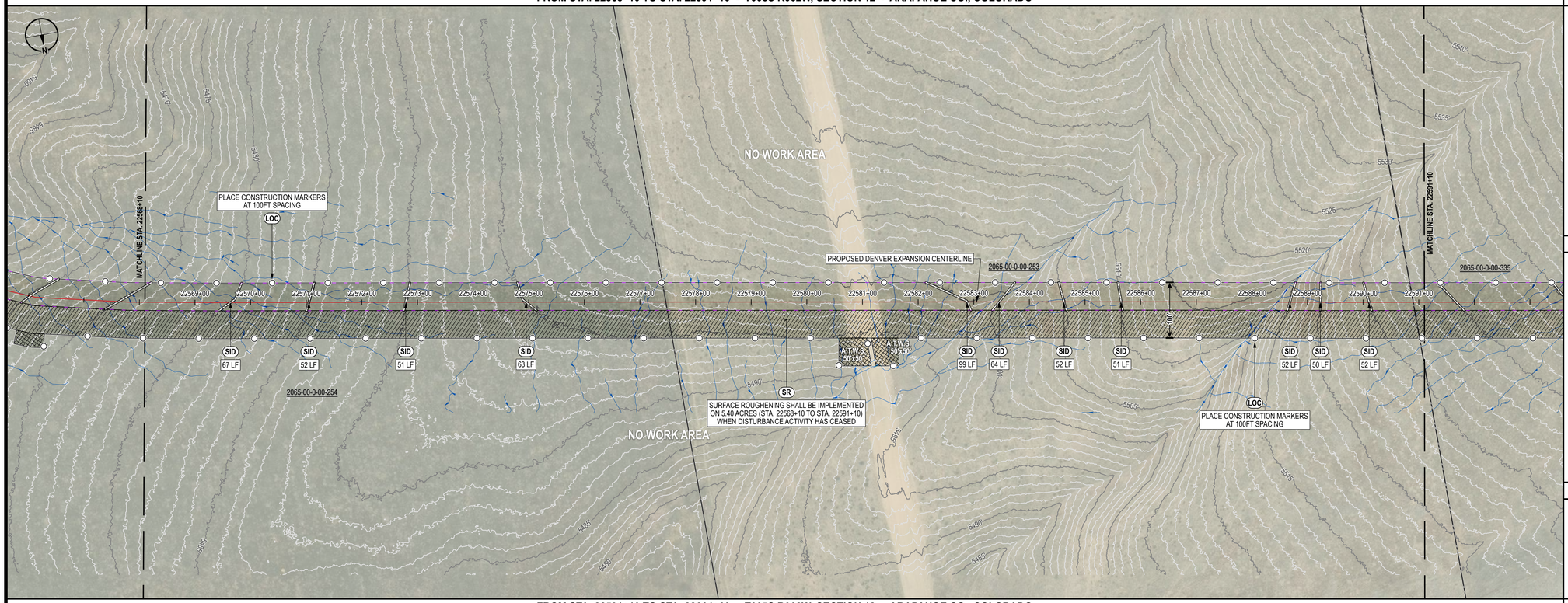

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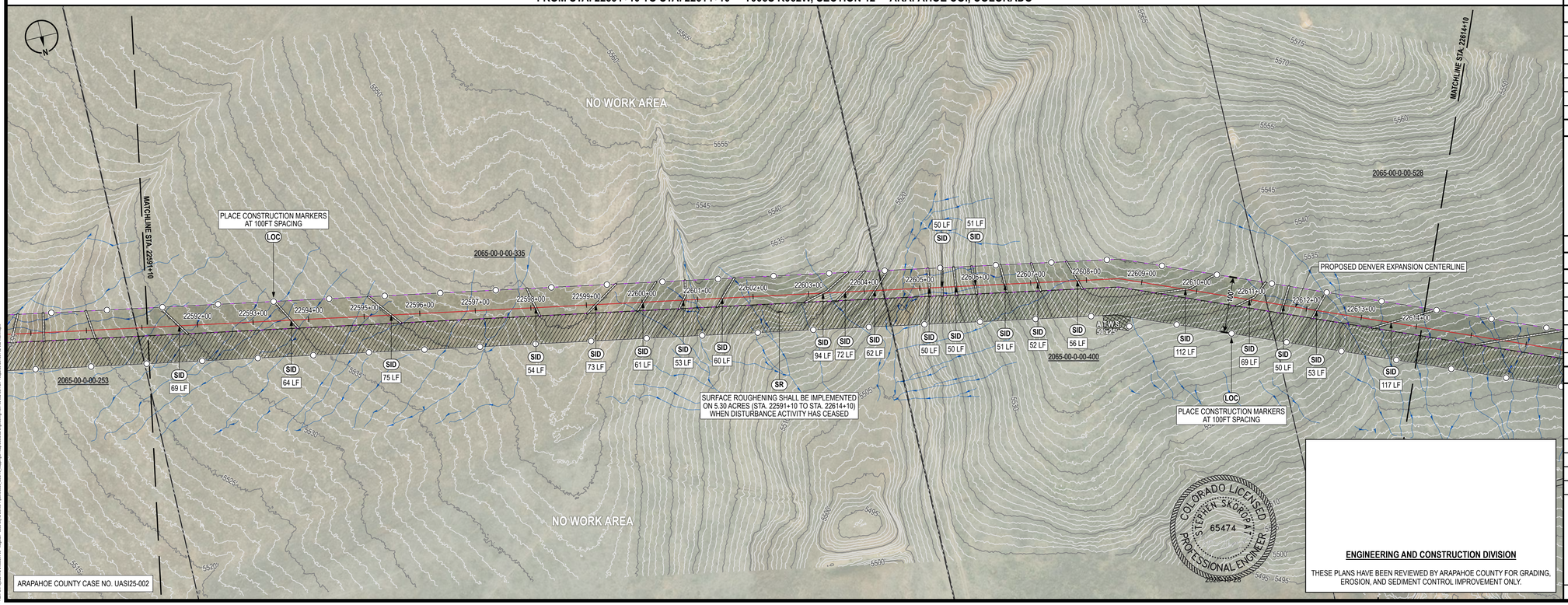

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TRANSVERSE MERCATOR, NAD 1983 BLM ZONE 13N, U.S. FOOT

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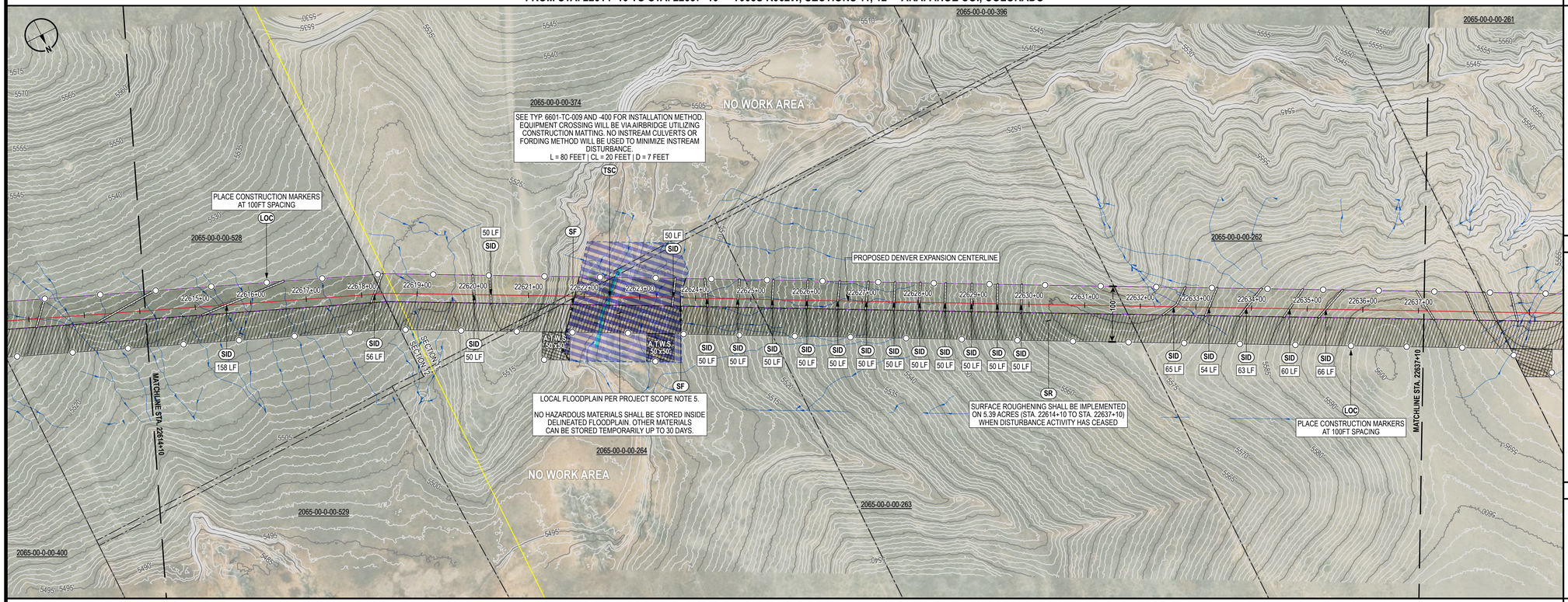
INITIAL/INTERIM GRADING, EROSION AND SEDIMENT CONTROL PLAN ARAPAHOE COUNTY, COLORADO

FROM STA. 22568+10 TO STA 22614+10

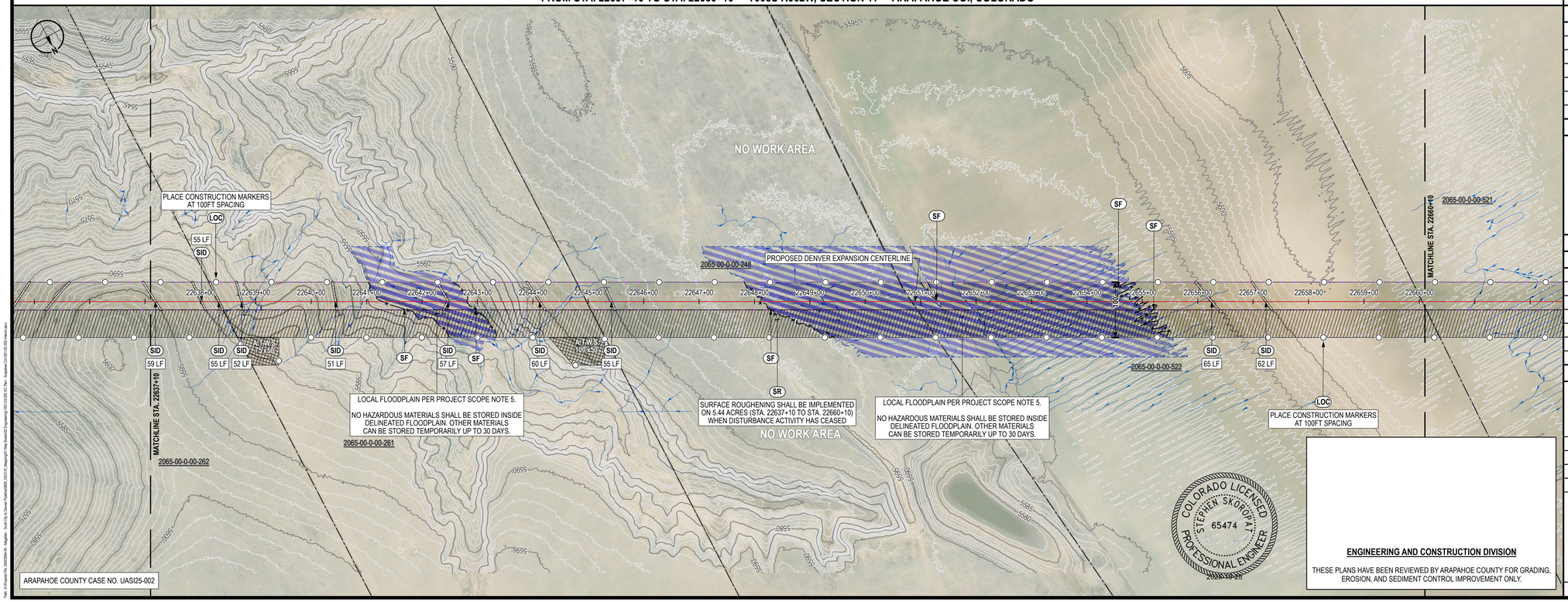
DWG. NUMBER:	1001-02-002-014-I	REVISION:	4

Xref: G:\Projects\Tifs_ONEOK\Drawings\Plan_Profile\ONEOK_GEOTIF_Mapping\01 Map Books\02 Engineering\1001-02-002-01 Plan - Initial\Initial GA1001-02-002-Scenario.dwg

FROM STA. 22614+10 TO STA. 22637+10 - T005S R062W, SECTIONS 11, 12 - ARAPAHOE CO., COLORADO



FROM STA. 22637+10 TO STA. 22660+10 - T005S R062W, SECTION 11 - ARAPAHOE CO., COLORADO



ARAPAHOE COUNTY CASE NO. UASI25-002

CONTROL MEASURE NOTES

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0 100 200 400 US FEET

TRANSVERSE MERCATOR, NAD 1983 BLM ZONE 13N, U.S. FOOT

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DENVER EXPANSION PROJECT - SCOTT CITY TO DENVER PIPELINE

ONEOK
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MAGELLAN MIDSTREAM PARTNERS

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Houston, TX 77041, USA

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COLORADO LICENSED STEPHEN SKOROPAT 65474 PROFESSIONAL ENGINEER

ENGINEERING AND CONSTRUCTION DIVISION

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FROM STA. 22614+10 TO STA 22660+10

DWG. NUMBER:	1001-02-002-015-I	REVISION:	4

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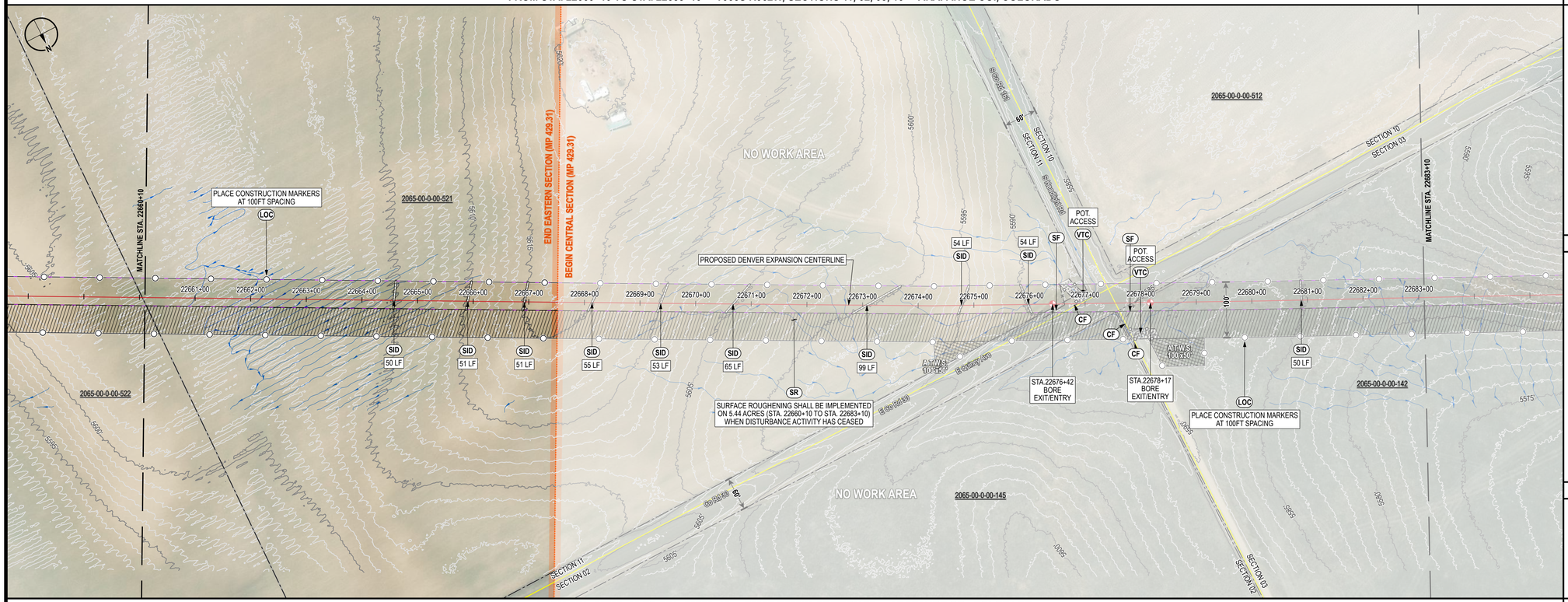
FROM STA. 22660+10 TO STA. 22683+10 - T005S R062W, SECTIONS 11, 02, 03, 10 - ARAPAHOE CO., COLORADO



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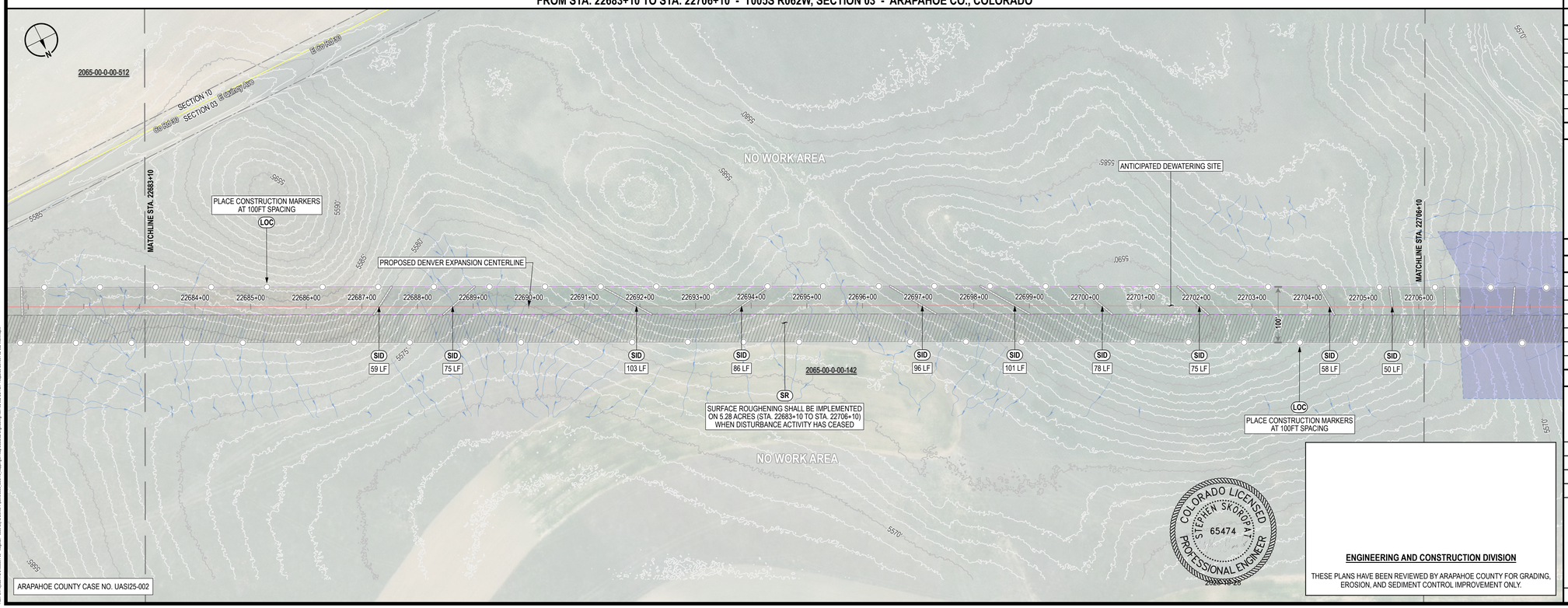

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- (VTC) VEHICLE TRACKING CONTROL
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- (CF) CONSTRUCTION FENCE
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COLORADO LICENSED
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65474
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INITIAL/INTERIM GRADING, EROSION AND SEDIMENT CONTROL PLAN ARAPAHOE COUNTY, COLORADO

FROM STA. 22660+10 TO STA 22706+10

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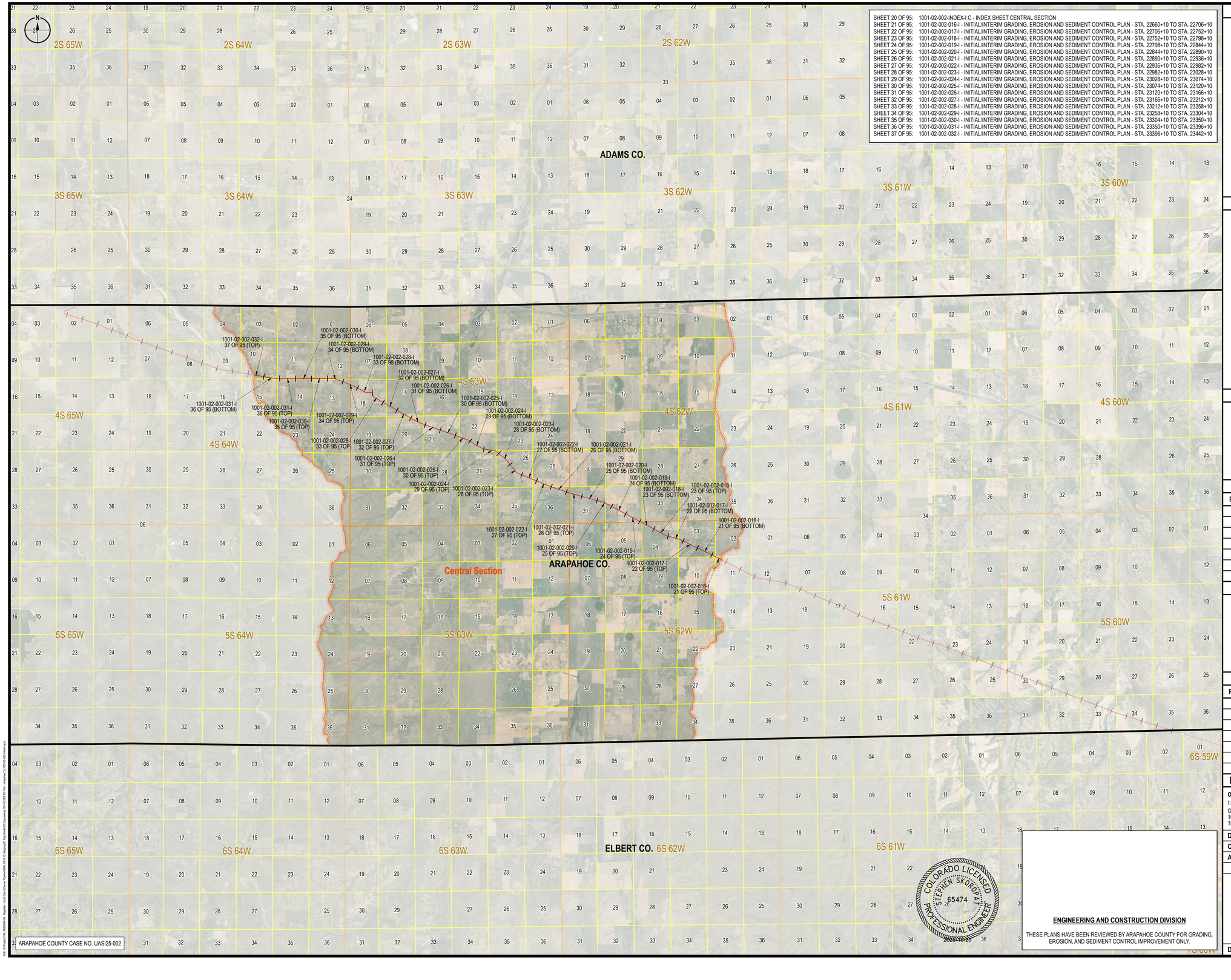

SHEET 20 OF 95:	1001-02-002-INDEX-I C - INDEX SHEET CENTRAL SECTION
SHEET 21 OF 95:	1001-02-002-016-I - INITIAL/INTERIM GRADING, EROSION AND SEDIMENT CONTROL PLAN - STA. 22660+10 TO STA. 22706+10
SHEET 22 OF 95:	1001-02-002-017-I - INITIAL/INTERIM GRADING, EROSION AND SEDIMENT CONTROL PLAN - STA. 22706+10 TO STA. 22752+10
SHEET 23 OF 95:	1001-02-002-018-I - INITIAL/INTERIM GRADING, EROSION AND SEDIMENT CONTROL PLAN - STA. 22752+10 TO STA. 22798+10
SHEET 24 OF 95:	1001-02-002-019-I - INITIAL/INTERIM GRADING, EROSION AND SEDIMENT CONTROL PLAN - STA. 22798+10 TO STA. 22844+10
SHEET 25 OF 95:	1001-02-002-020-I - INITIAL/INTERIM GRADING, EROSION AND SEDIMENT CONTROL PLAN - STA. 22844+10 TO STA. 22890+10
SHEET 26 OF 95:	1001-02-002-021-I - INITIAL/INTERIM GRADING, EROSION AND SEDIMENT CONTROL PLAN - STA. 22890+10 TO STA. 22936+10
SHEET 27 OF 95:	1001-02-002-022-I - INITIAL/INTERIM GRADING, EROSION AND SEDIMENT CONTROL PLAN - STA. 22936+10 TO STA. 22982+10
SHEET 28 OF 95:	1001-02-002-023-I - INITIAL/INTERIM GRADING, EROSION AND SEDIMENT CONTROL PLAN - STA. 22982+10 TO STA. 23028+10
SHEET 29 OF 95:	1001-02-002-024-I - INITIAL/INTERIM GRADING, EROSION AND SEDIMENT CONTROL PLAN - STA. 23028+10 TO STA. 23074+10
SHEET 30 OF 95:	1001-02-002-025-I - INITIAL/INTERIM GRADING, EROSION AND SEDIMENT CONTROL PLAN - STA. 23074+10 TO STA. 23120+10
SHEET 31 OF 95:	1001-02-002-026-I - INITIAL/INTERIM GRADING, EROSION AND SEDIMENT CONTROL PLAN - STA. 23120+10 TO STA. 23166+10
SHEET 32 OF 95:	1001-02-002-027-I - INITIAL/INTERIM GRADING, EROSION AND SEDIMENT CONTROL PLAN - STA. 23166+10 TO STA. 23212+10
SHEET 33 OF 95:	1001-02-002-028-I - INITIAL/INTERIM GRADING, EROSION AND SEDIMENT CONTROL PLAN - STA. 23212+10 TO STA. 23258+10
SHEET 34 OF 95:	1001-02-002-029-I - INITIAL/INTERIM GRADING, EROSION AND SEDIMENT CONTROL PLAN - STA. 23258+10 TO STA. 23304+10
SHEET 35 OF 95:	1001-02-002-030-I - INITIAL/INTERIM GRADING, EROSION AND SEDIMENT CONTROL PLAN - STA. 23304+10 TO STA. 23350+10
SHEET 36 OF 95:	1001-02-002-031-I - INITIAL/INTERIM GRADING, EROSION AND SEDIMENT CONTROL PLAN - STA. 23350+10 TO STA. 23396+10
SHEET 37 OF 95:	1001-02-002-032-I - INITIAL/INTERIM GRADING, EROSION AND SEDIMENT CONTROL PLAN - STA. 23396+10 TO STA. 23442+10

ARAPAHOE COUNTY CASE NO. UASI25-002

CONTROL MEASURE NOTES

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0 5,000 10,000 20,000 US FEET

TRANSVERSE MERCATOR, NAD 1983 BLM ZONE 13N, U.S. FOOT

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COLORADO LICENSED STEPHEN SKOROPAT 65474 PROFESSIONAL ENGINEER

ENGINEERING AND CONSTRUCTION DIVISION

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INITIAL/INTERIM GRADING, EROSION AND SEDIMENT CONTROL PLAN ARAPAHOE COUNTY, COLORADO

INDEX SHEET - CENTRAL SECTION

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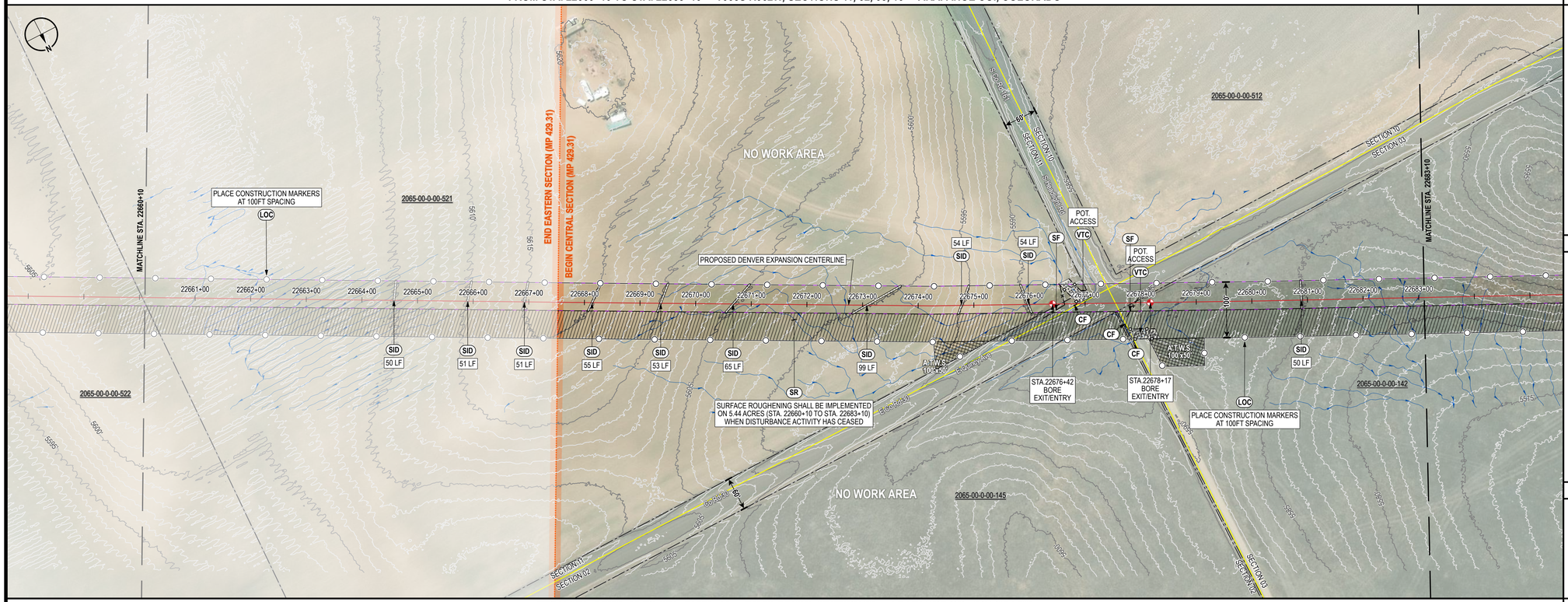

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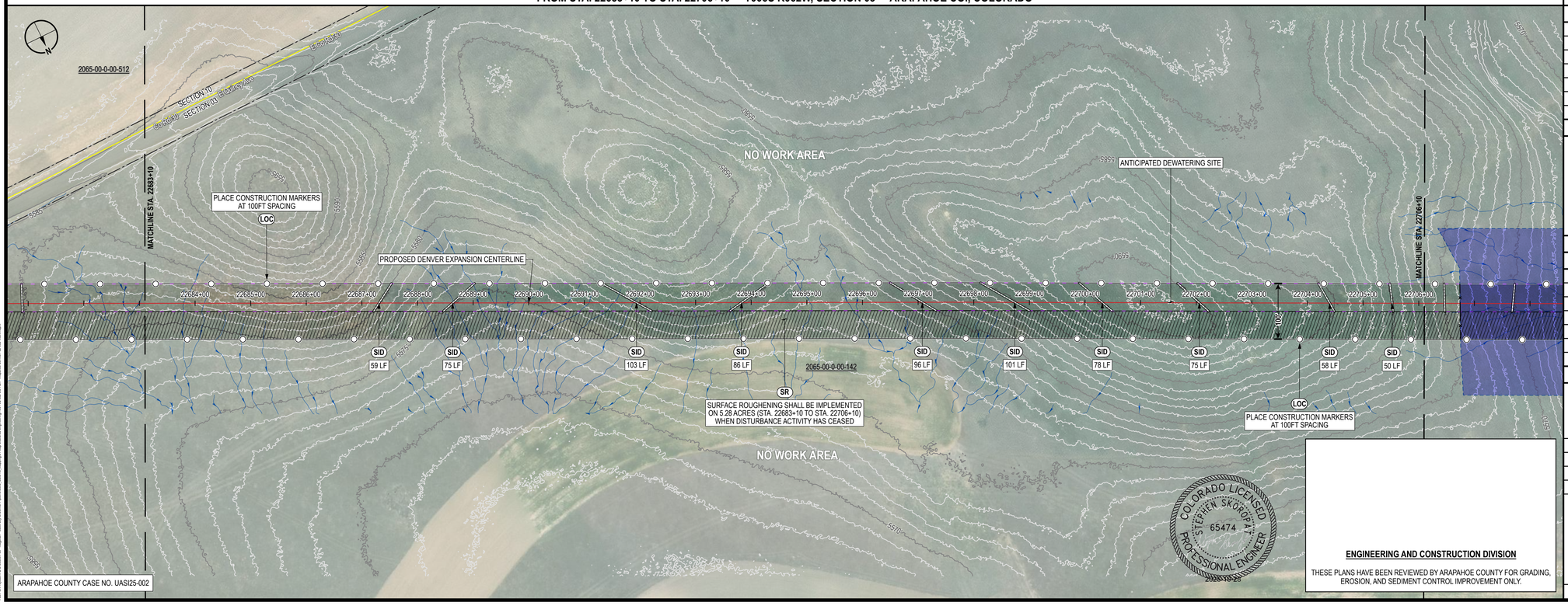

ARAPAHOE COUNTY CASE NO. UASI25-002

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0 — 100 — 200 — 400 US FEET

TRANSVERSE MERCATOR, NAD 1983 BLM ZONE 13N, U.S. FOOT

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COLORADO LICENSED — STEPHEN SKOROBAT — 65474 — PROFESSIONAL ENGINEER

ENGINEERING AND CONSTRUCTION DIVISION

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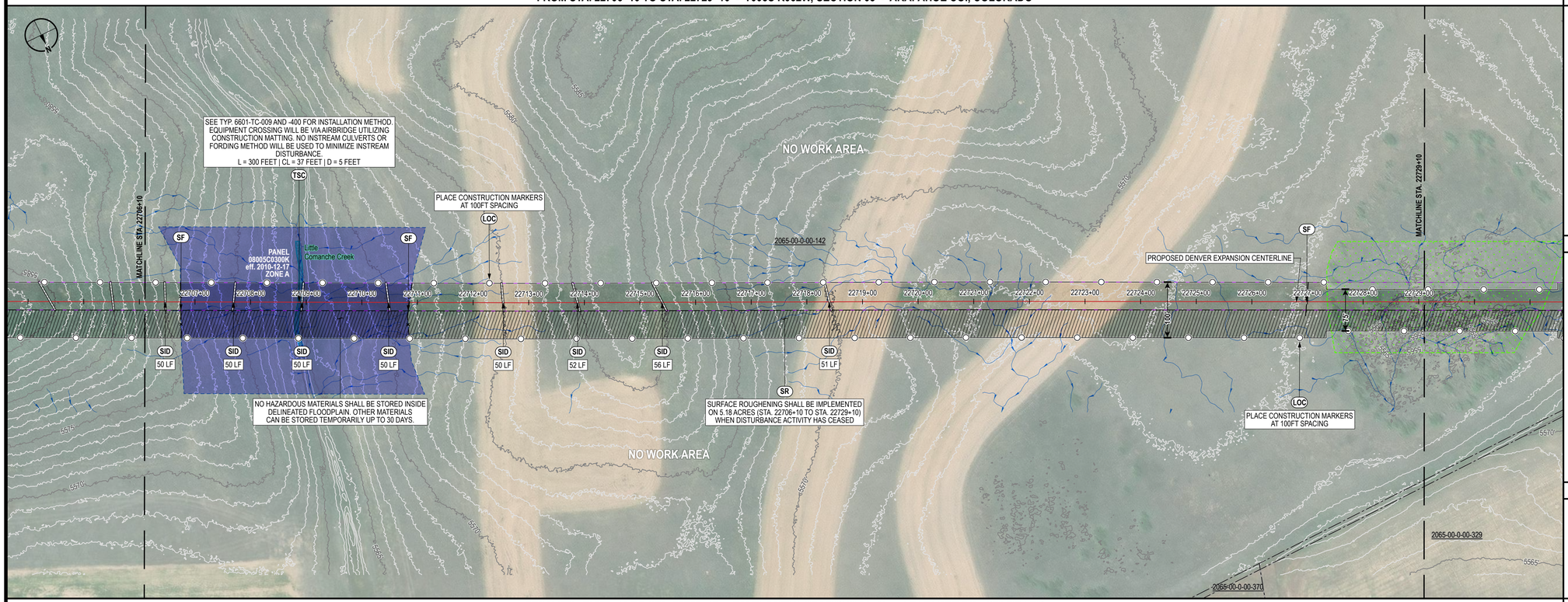

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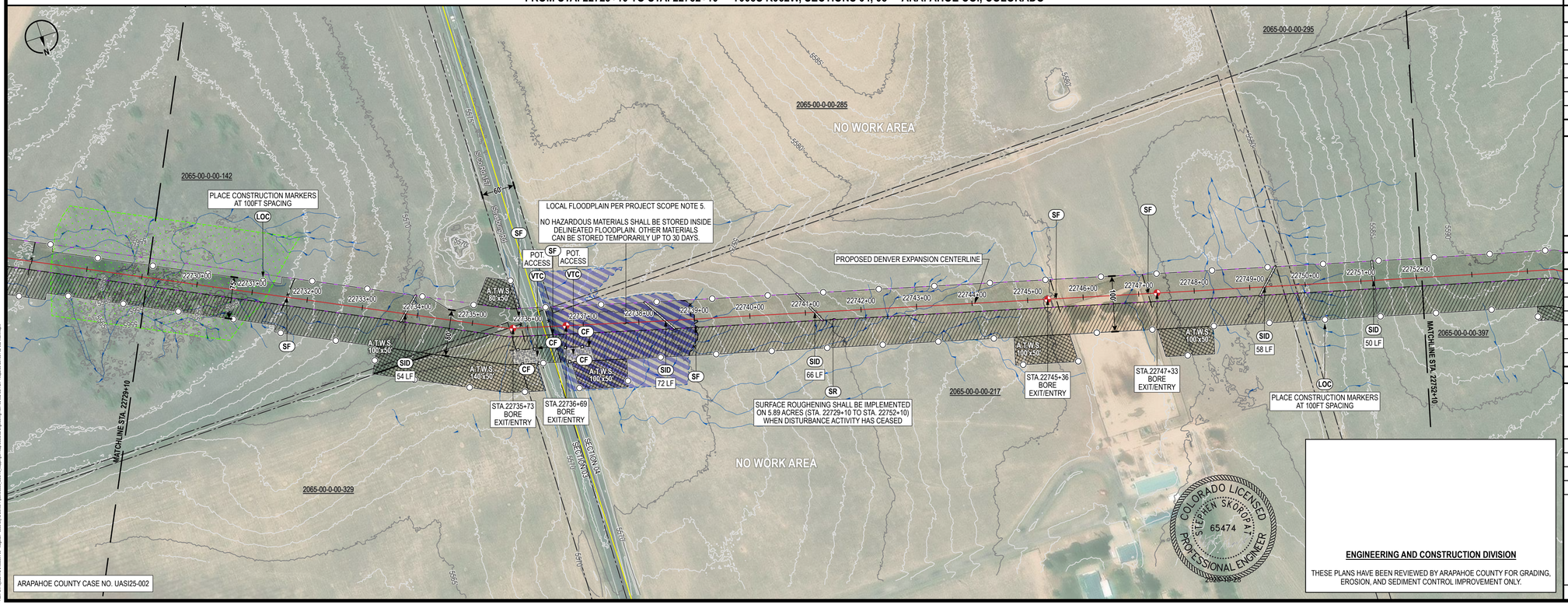

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COLORADO LICENSED STEPHEN SKOROPAT 65474 PROFESSIONAL ENGINEER

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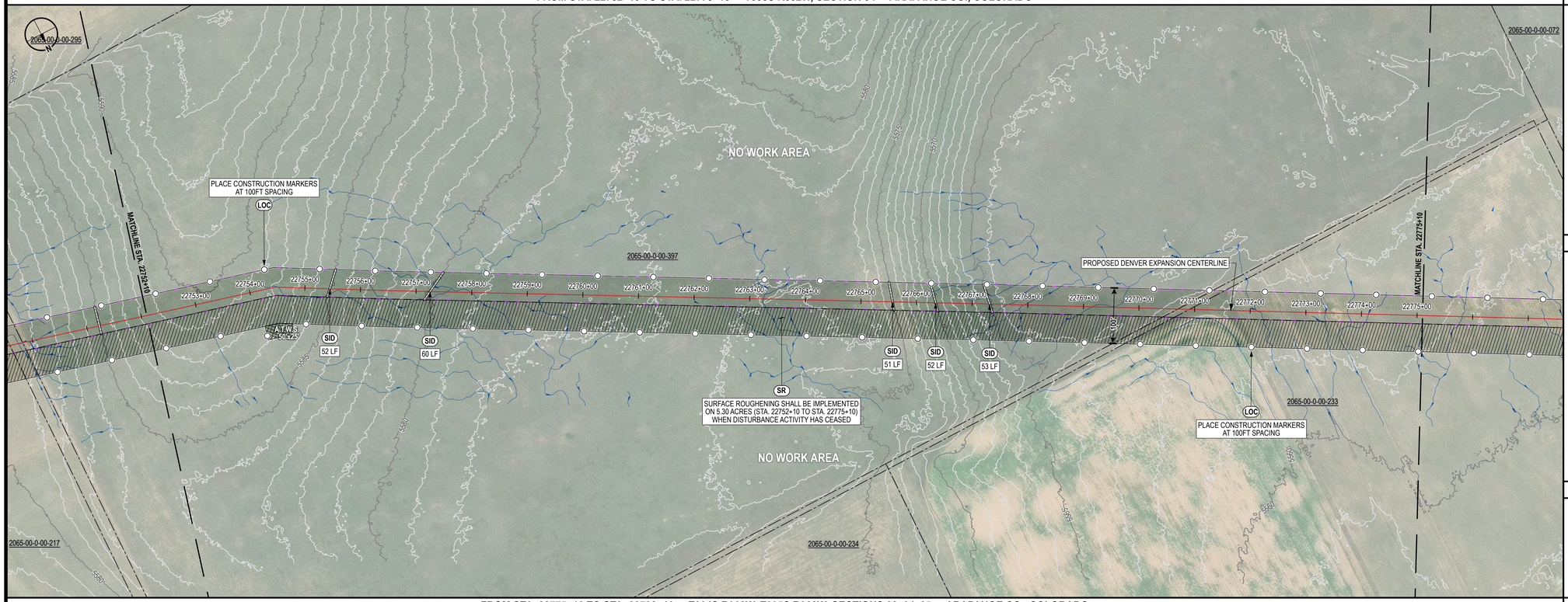

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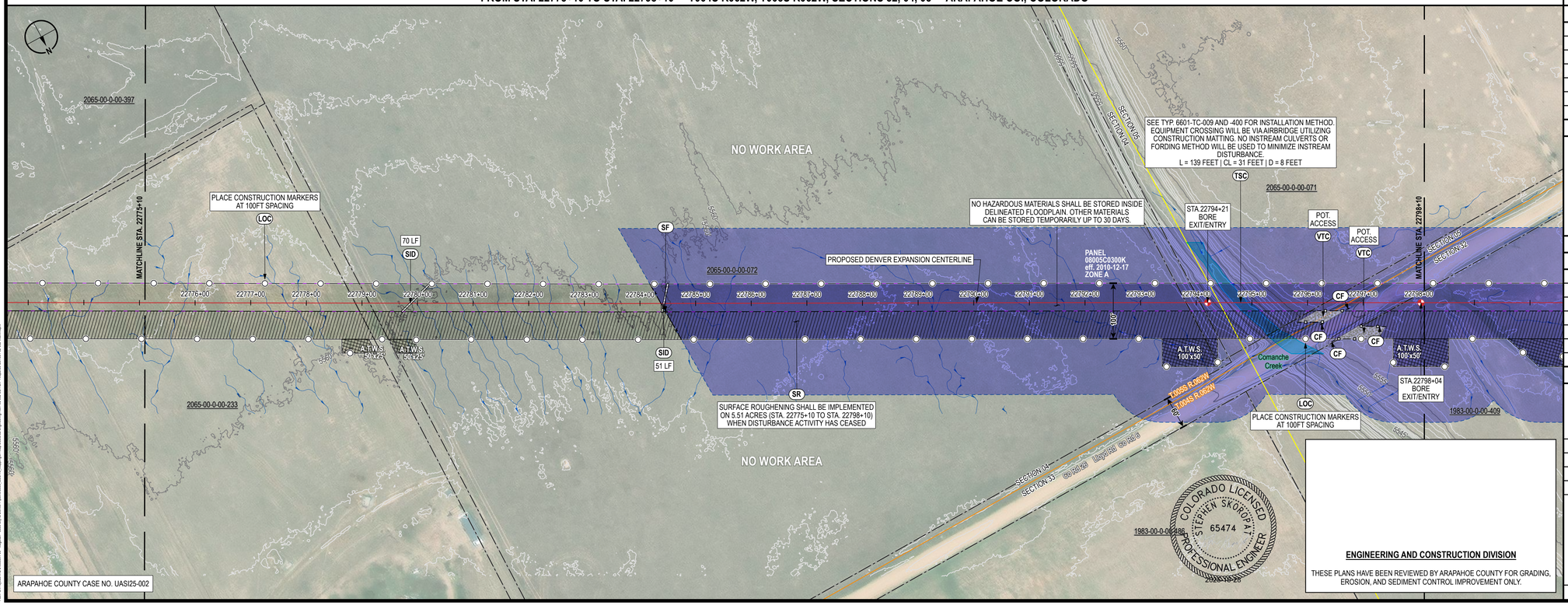

ARAPAHOE COUNTY CASE NO. UASI25-002

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EXP Energy Services Inc.
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f: +1 (713) 963-9085
11330 Clay Road, Suite 550
Houston, TX 77041, USA

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APPROVED BY:	SS	SHEET:	23 OF 95

INITIAL/INTERIM GRADING, EROSION AND SEDIMENT CONTROL PLAN ARAPAHOE COUNTY, COLORADO

FROM STA. 22752+10 TO STA 22798+10

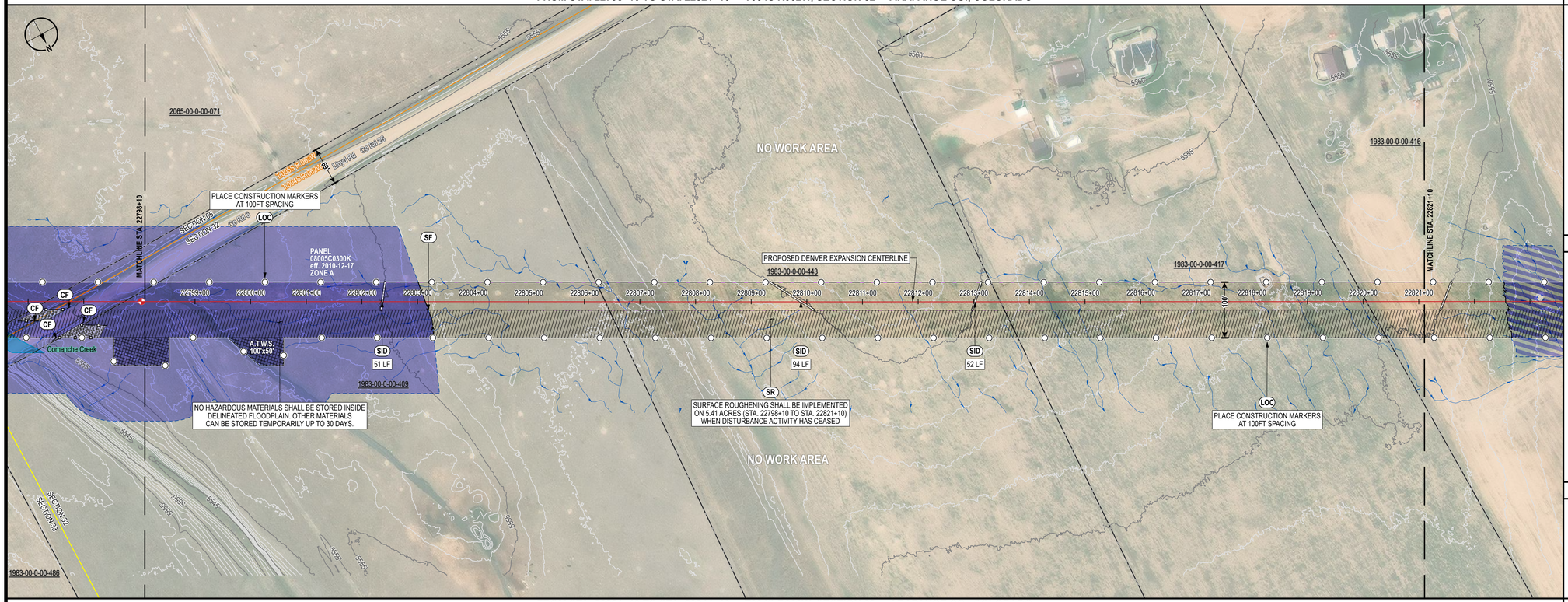
DWG. NUMBER:	1001-02-002-018-I	REVISION:	4

COLORADO LICENSED STEPHEN SKOROPAT 65474 PROFESSIONAL ENGINEER

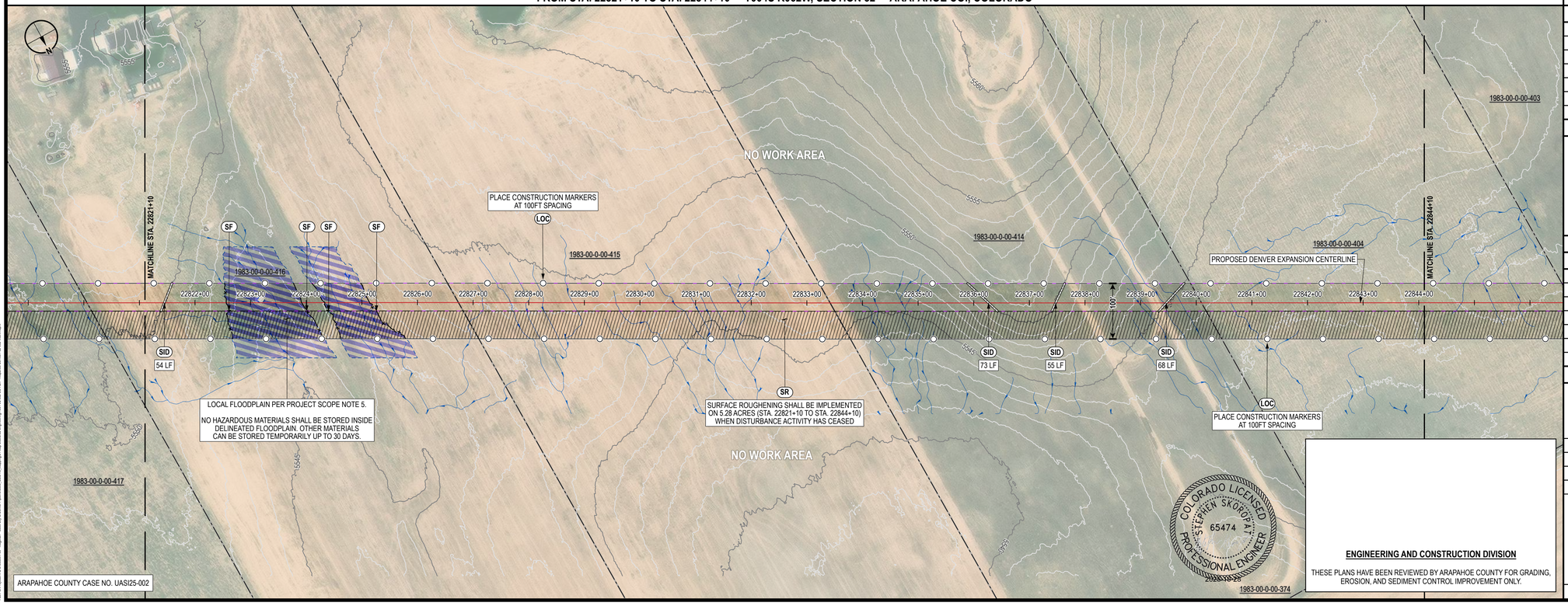
ENGINEERING AND CONSTRUCTION DIVISION

THESE PLANS HAVE BEEN REVIEWED BY ARAPAHOE COUNTY FOR GRADING, EROSION, AND SEDIMENT CONTROL IMPROVEMENT ONLY.

FROM STA. 22798+10 TO STA. 22821+10 - T004S R062W, SECTION 32 - ARAPAHOE CO., COLORADO



FROM STA. 22821+10 TO STA. 22844+10 - T004S R062W, SECTION 32 - ARAPAHOE CO., COLORADO



ARAPAHOE COUNTY CASE NO. UASI25-002

CONTROL MEASURE NOTES

- (VTC) VEHICLE TRACKING CONTROL
- (SR) SURFACE ROUGHENING
- (TSC) TEMPORARY STREAM CROSSING
- (SF) SILT FENCE
- (CF) CONSTRUCTION FENCE
- (SID) SLOPE INTERCEPT DITCH
- (CM) CONSTRUCTION MARKER
- (LOC) LIMITS OF CONSTRUCTION (SEE PROPOSED EASEMENT BOUNDARY / TEMPORARY WORKSPACE BOUNDARY BELOW)

(1) ATWS WILL HAVE RESTRICTED USE (NO TOP SOIL STORAGE, HAZARDOUS MATERIAL STORAGE, OR REFUELING WILL OCCUR).

ENVIRONMENTAL NOTES / LEGEND

(1) ENVIRONMENTAL EXCLUSION AREAS WILL BE MARKED BY EXCLUSION FENCING AND SIGNAGE.

- PROPOSED CENTERLINE
- PROPOSED EASEMENT BOUNDARY
- TEMPORARY WORKSPACE BOUNDARY
- ADDITIONAL TEMPORARY WORKSPACE
- NEW PERMANENT SITE
- NEW PERMANENT ACCESS
- ACCESS ROAD
- CONSTRUCTION MARKER
- SLOPE INTERCEPT DITCH
- SILT FENCE
- CONSTRUCTION FENCE
- VEHICLE TRACKING CONTROL
- BORE OR HDD ENTRY/EXIT
- FOREIGN PIPELINE
- OTHER UTILITY
- EXISTING EASEMENT
- DRAINAGE FLOW
- WETLAND
- STREAM
- LOCAL FLOODPLAIN DELINEATION
- FEMA FLOODPLAIN
- FEMA FLOODPLAIN ANALYSIS DELINEATION
- FEMA REGULATORY FLOODWAY
- PROPERTY BOUNDARY
- SECTION BOUNDARY
- TOWNSHIP BOUNDARY
- COUNTY BOUNDARY

0 100 200 400 US FEET

TRANSVERSE MERCATOR, NAD 1983 BLM ZONE 13N, U.S. FOOT

BILL OF MATERIALS

REFERENCE DRAWINGS

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CP FEATURE DATA

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3	09/26/25	PD	UPDATED ALIGNMENT
4	10/24/25	PD	UPDATED AGENCY COMMENTS

DENVER EXPANSION PROJECT - SCOTT CITY TO DENVER PIPELINE

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DRAWN BY:	PD	DATE:	10/24/25
CHECKED BY:	DS	SCALE:	1" = 100' (PRINTED AT 24"x36")
APPROVED BY:	SS	SHEET:	24 OF 95

COLORADO LICENSED
STEPHEN SKOROPAT
65474
PROFESSIONAL ENGINEER

ENGINEERING AND CONSTRUCTION DIVISION

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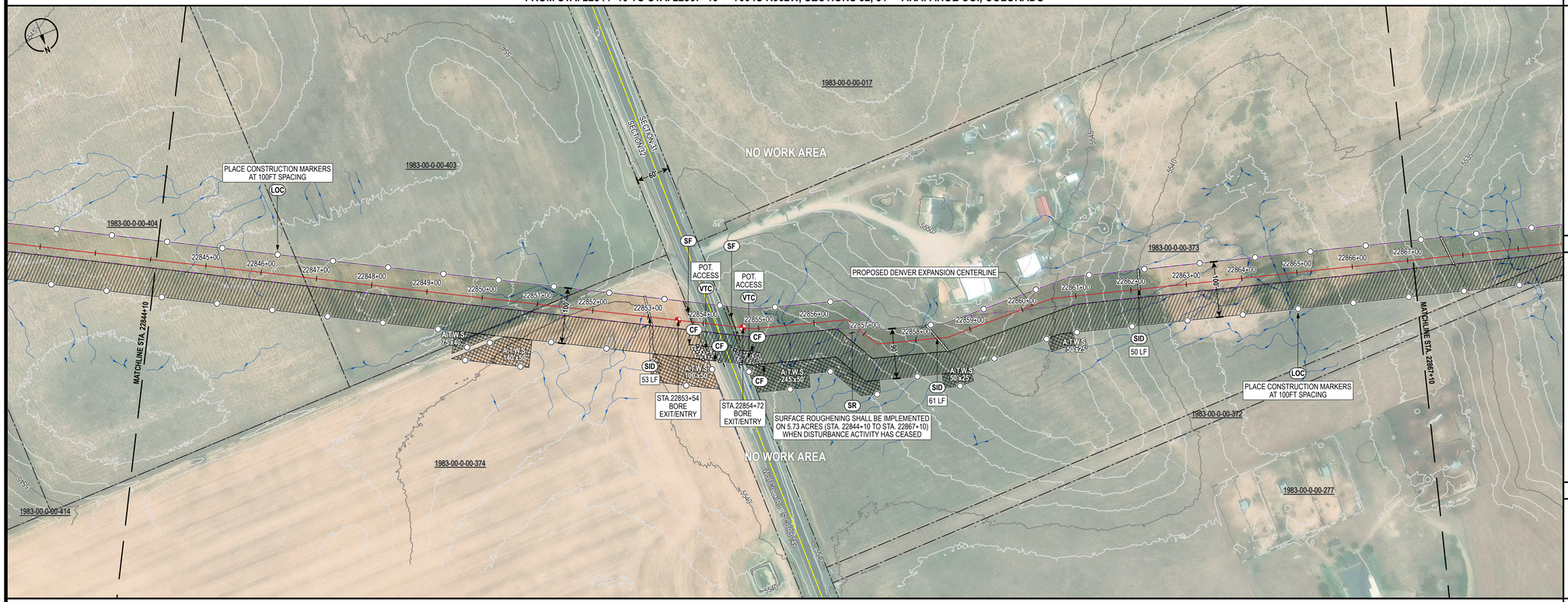
INITIAL/INTERIM GRADING, EROSION AND SEDIMENT CONTROL PLAN ARAPAHOE COUNTY, COLORADO

FROM STA. 22798+10 TO STA 22844+10

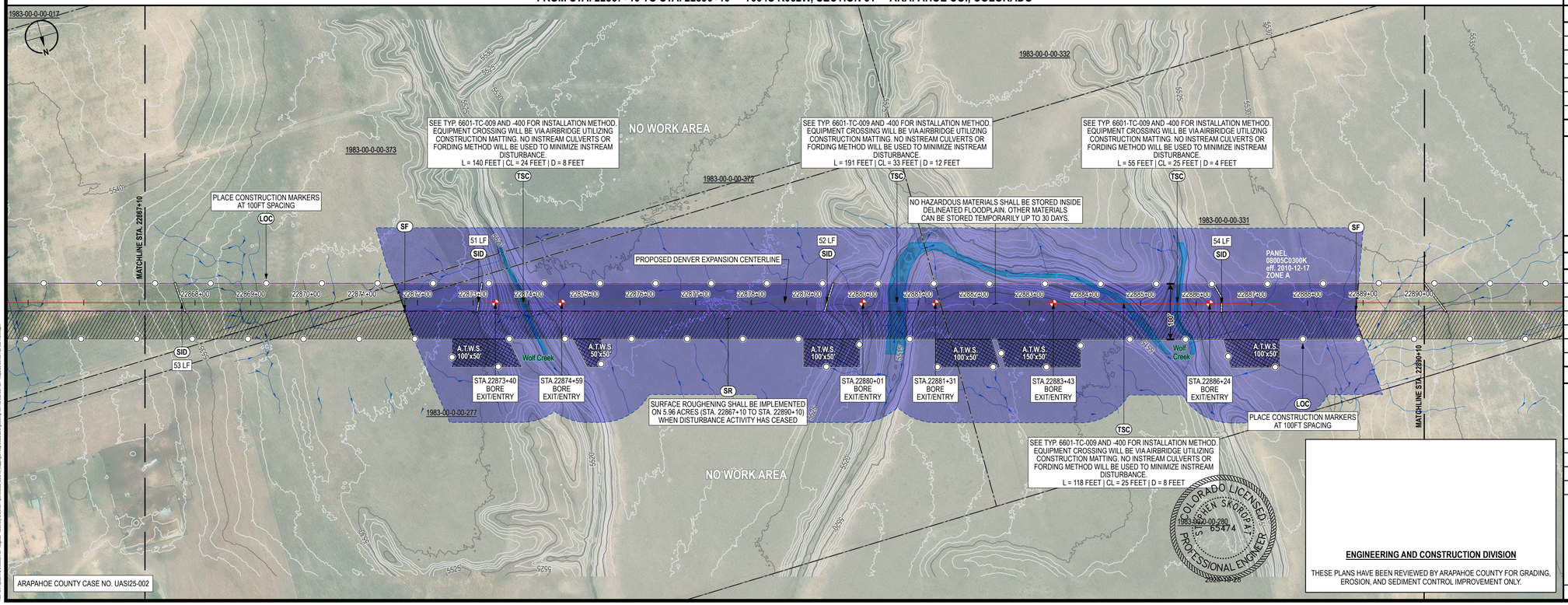
DWG. NUMBER:	1001-02-002-019-I	REVISION:	4

Path: G:\Projects\70s_24003564-04 - Magellan - Scott City to Denver Pipeline\0800_GEO\16_Mapping\01 Map Books\02 Engineering\1001-02-002 EC Plan - Arapahoe Co\1001-02-002-Sheets.aprx

FROM STA. 22844+10 TO STA. 22867+10 - T004S R062W, SECTIONS 32, 31 - ARAPAHOE CO., COLORADO



FROM STA. 22867+10 TO STA. 22890+10 - T004S R062W, SECTION 31 - ARAPAHOE CO., COLORADO



ARAPAHOE COUNTY CASE NO. UASI25-002

CONTROL MEASURE NOTES

- (VTC) VEHICLE TRACKING CONTROL
- (SR) SURFACE ROUGHENING
- (TSC) TEMPORARY STREAM CROSSING
- (SF) SILT FENCE
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- FEMA FLOODPLAIN ANALYSIS DELINEATION
- FEMA REGULATORY FLOODWAY
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- SECTION BOUNDARY
- TOWNSHIP BOUNDARY
- COUNTY BOUNDARY

0 100 200 400 US FEET

TRANSVERSE MERCATOR, NAD 1983 BLM ZONE 13N, U.S. FOOT

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APPROVED BY:	SS	SHEET:	25 OF 95

INITIAL/INTERIM GRADING, EROSION AND SEDIMENT CONTROL PLAN ARAPAHOE COUNTY, COLORADO

FROM STA. 22844+10 TO STA 22890+10

DWG. NUMBER:	1001-02-002-020-I	REVISION:	4

COLORADO LICENSED STEPHEN SKOROPAT 53474 PROFESSIONAL ENGINEER

ENGINEERING AND CONSTRUCTION DIVISION

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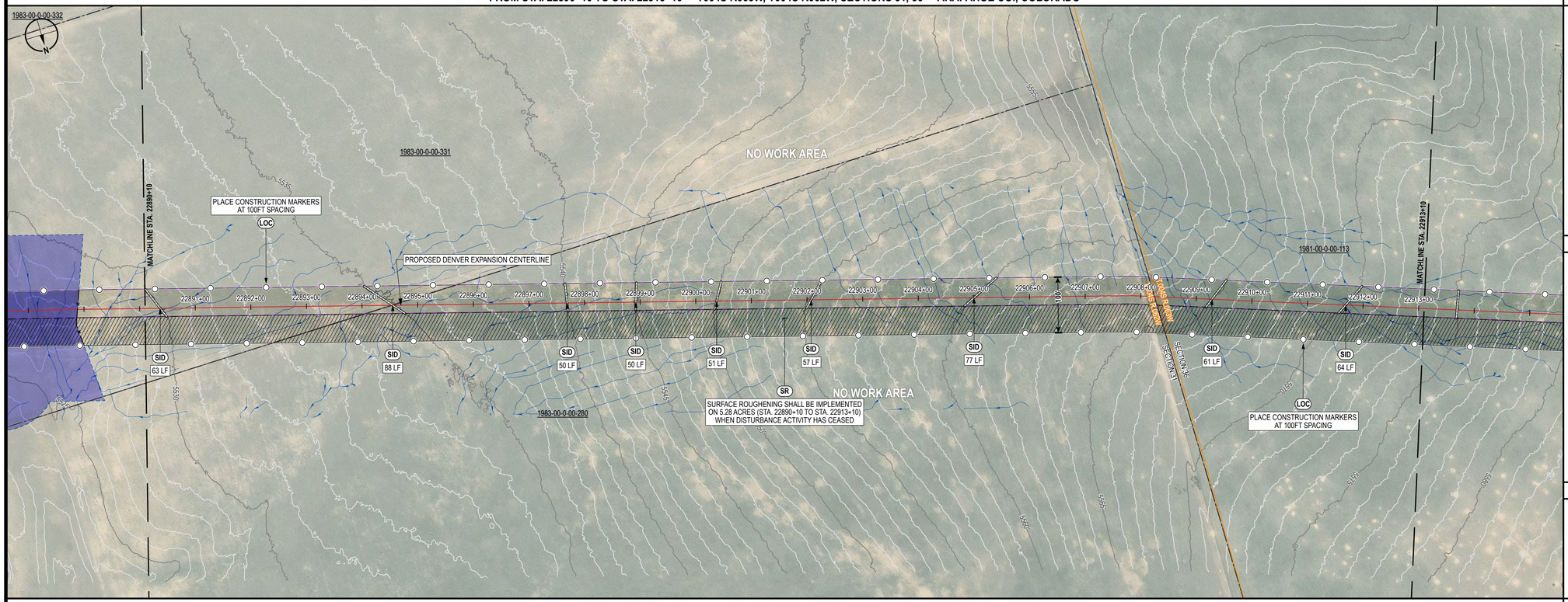
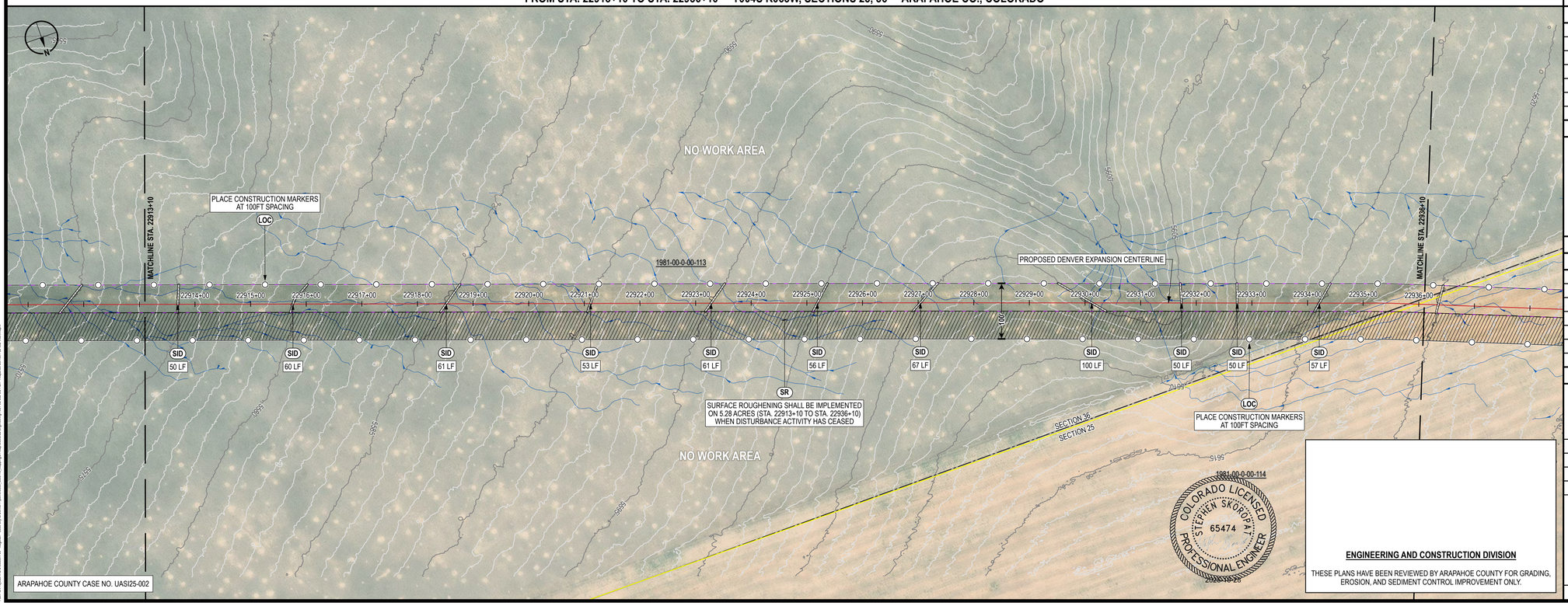
FROM STA. 22890+10 TO STA. 22913+10 - T004S R063W, T004S R062W, SECTIONS 31, 36 - ARAPAHOE CO., COLORADO



FROM STA. 22913+10 TO STA. 22936+10 - T004S R063W, SECTIONS 25, 36 - ARAPAHOE CO., COLORADO



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- (SR) SURFACE ROUGHENING
- (TSC) TEMPORARY STREAM CROSSING
- (SF) SILT FENCE
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0 100 200 400 US FEET

TRANSVERSE MERCATOR, NAD 1983 BLM ZONE 13N, U.S. FOOT

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DENVER EXPANSION PROJECT - SCOTT CITY TO DENVER PIPELINE

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APPROVED BY:	SS	SHEET:	26 OF 95

INITIAL/INTERIM GRADING, EROSION AND SEDIMENT CONTROL PLAN ARAPAHOE COUNTY, COLORADO

FROM STA. 22890+10 TO STA 22936+10

DWG. NUMBER:	1001-02-002-021-I	REVISION:	4

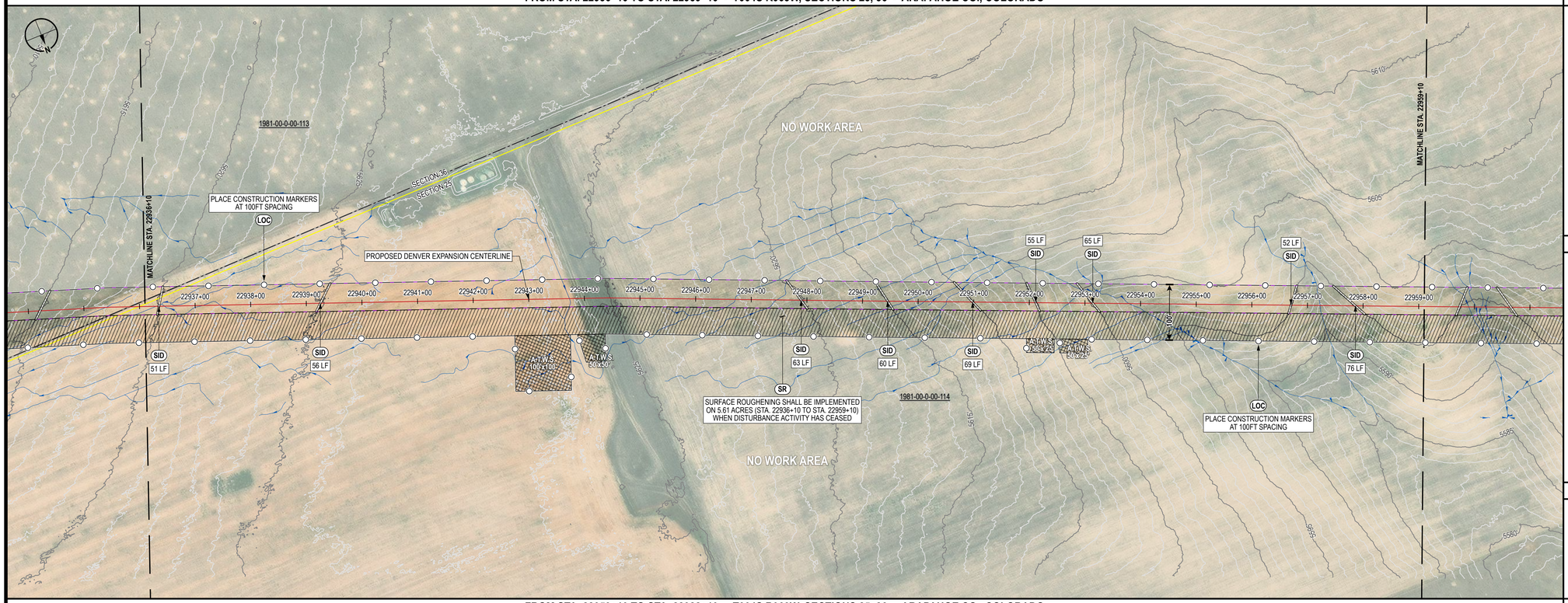
COLORADO LICENSED
STEPHEN SKOROPAT
65474
PROFESSIONAL ENGINEER

ENGINEERING AND CONSTRUCTION DIVISION

THESE PLANS HAVE BEEN REVIEWED BY ARAPAHOE COUNTY FOR GRADING, EROSION, AND SEDIMENT CONTROL IMPROVEMENT ONLY.

Xref: G:\Projects\70s_ONEOK\04-Mapping\MXD_GEOPDF_Mapping\01 Map Books\02 Engineering\1001-02-002-021 Plan - Alignment Grid\1001-02-002-Grid.mxd

FROM STA. 22936+10 TO STA. 22959+10 - T004S R063W, SECTIONS 25, 36 - ARAPAHOE CO., COLORADO



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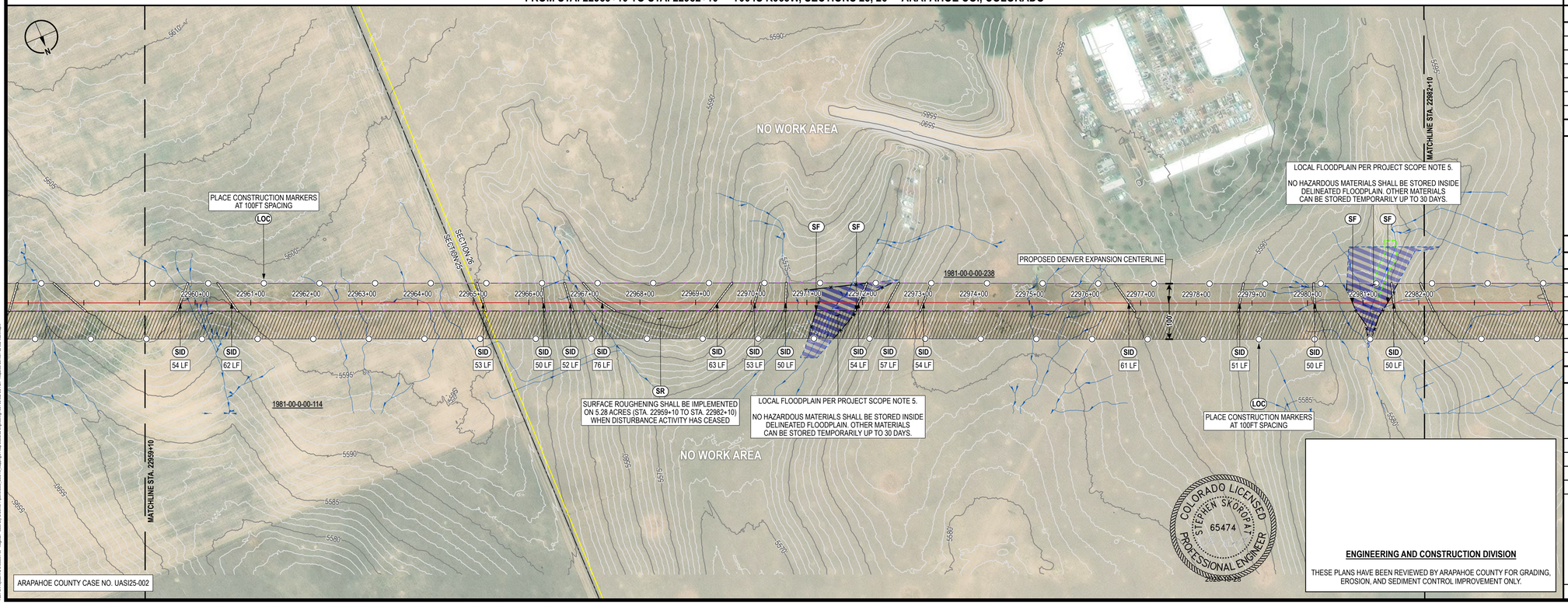

CONTROL MEASURE NOTES

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0 100 200 400 US FEET

TRANSVERSE MERCATOR, NAD 1983 BLM ZONE 13N, U.S. FOOT

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COLORADO LICENSED
STEPHEN SKOROPAT
65474
PROFESSIONAL ENGINEER

ENGINEERING AND CONSTRUCTION DIVISION

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INITIAL/INTERIM GRADING, EROSION AND SEDIMENT CONTROL PLAN ARAPAHOE COUNTY, COLORADO

FROM STA. 22936+10 TO STA 22982+10

DWG. NUMBER: 1001-02-002-022-I REVISION: 4

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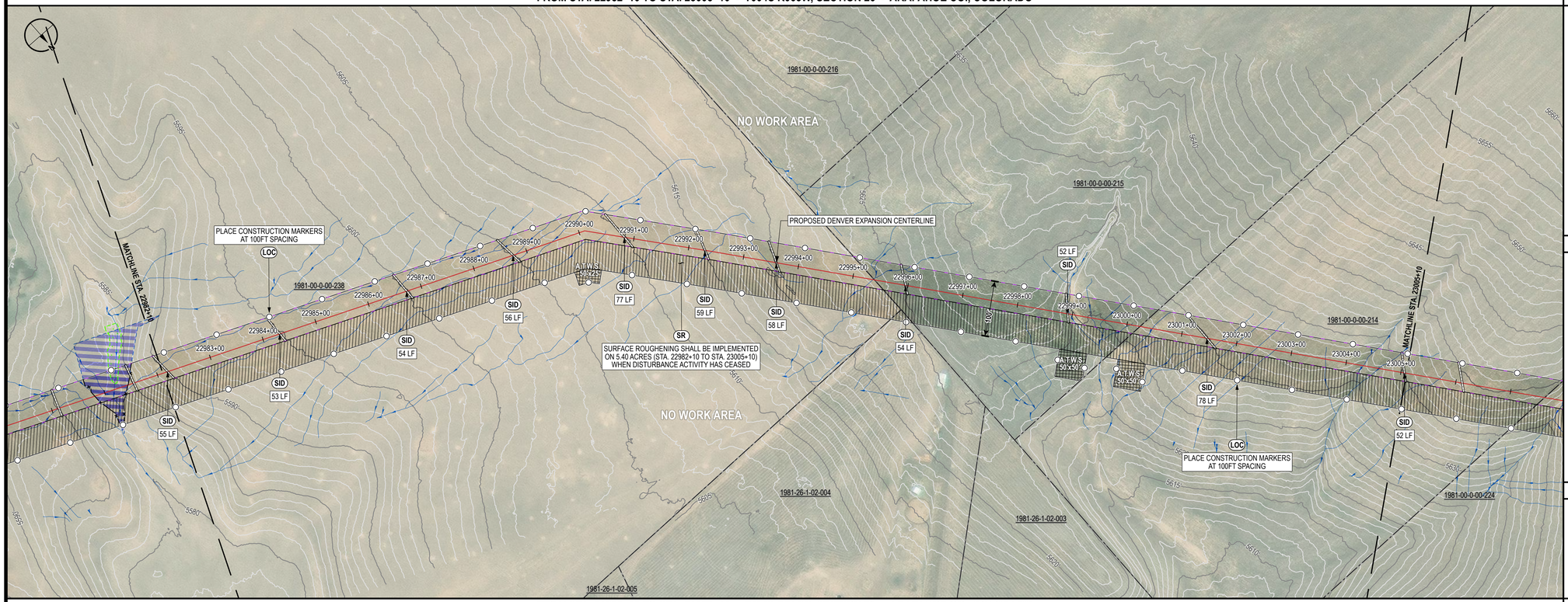
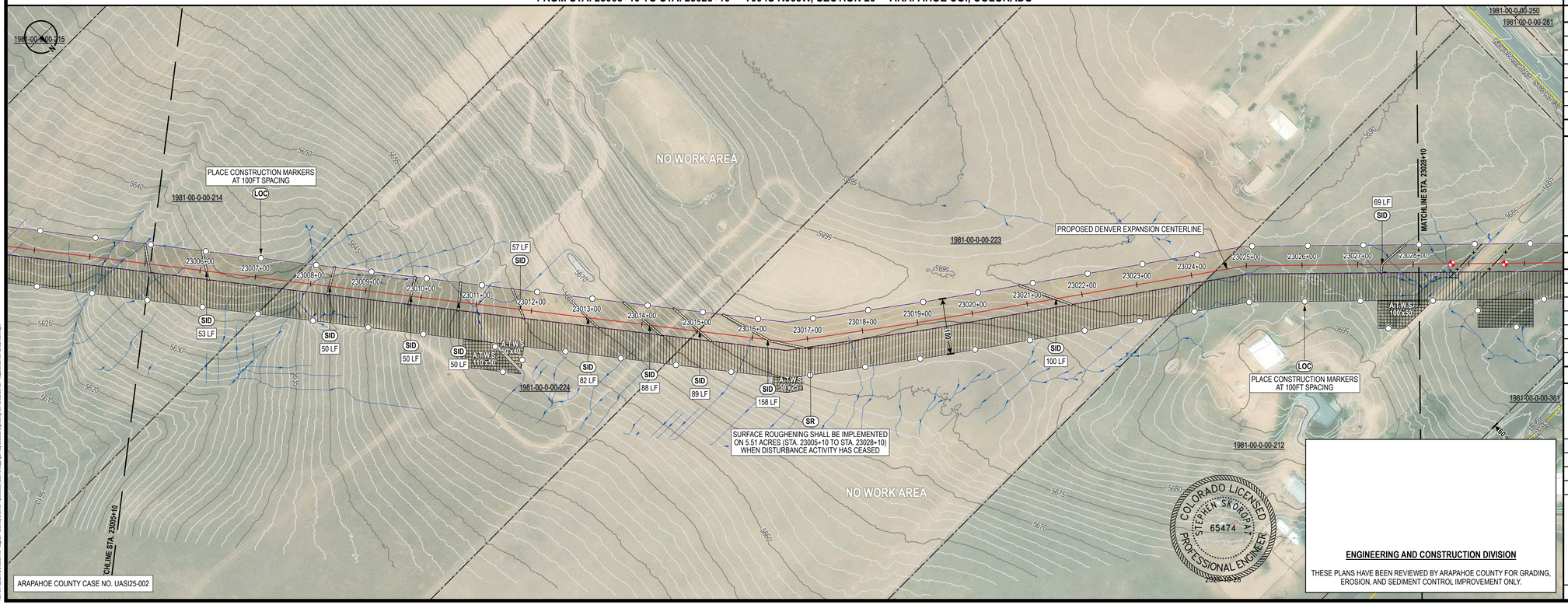
FROM STA. 22982+10 TO STA. 23005+10 - T004S R063W, SECTION 26 - ARAPAHOE CO., COLORADO



FROM STA. 23005+10 TO STA. 23028+10 - T004S R063W, SECTION 26 - ARAPAHOE CO., COLORADO



ARAPAHOE COUNTY CASE NO. UASI25-002

CONTROL MEASURE NOTES

- (VTC) VEHICLE TRACKING CONTROL
- (SR) SURFACE ROUGHENING
- (TSC) TEMPORARY STREAM CROSSING
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0 100 200 400 US FEET

TRANSVERSE MERCATOR, NAD 1983 BLM ZONE 13N, U.S. FOOT

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PROFESSIONAL ENGINEER

ENGINEERING AND CONSTRUCTION DIVISION

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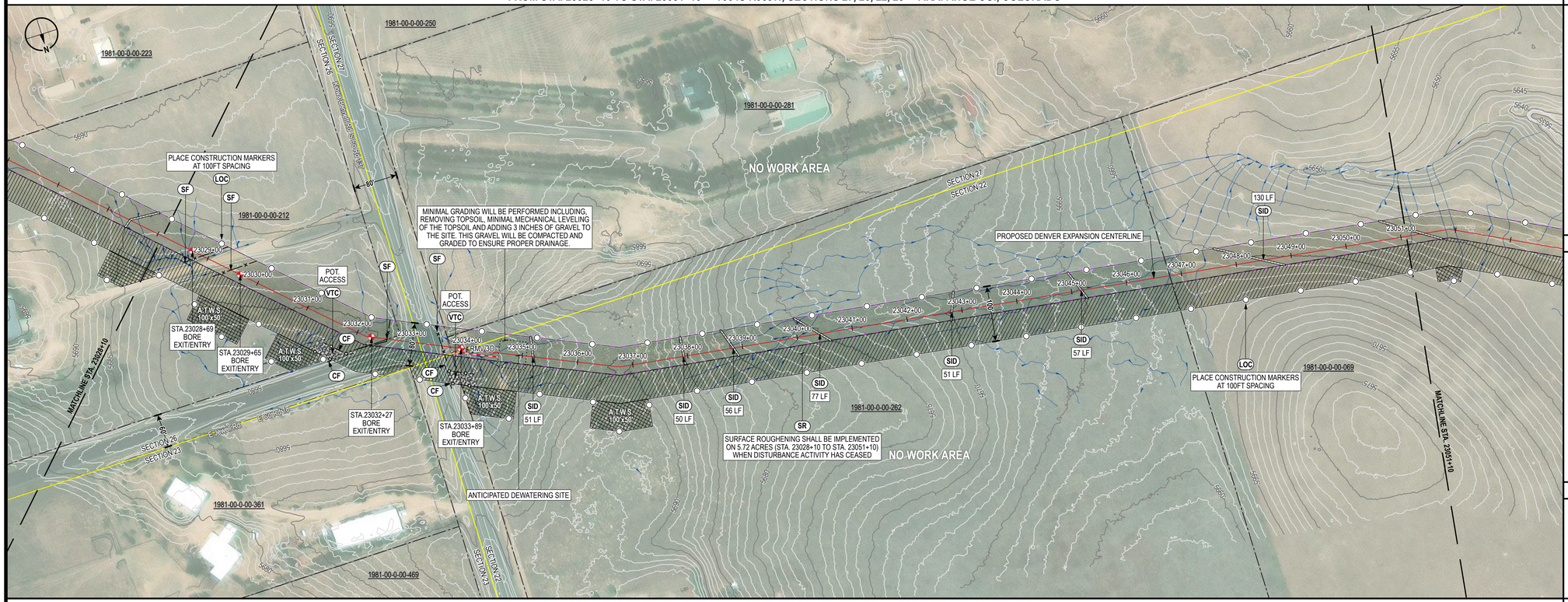
INITIAL/INTERIM GRADING, EROSION AND SEDIMENT CONTROL PLAN ARAPAHOE COUNTY, COLORADO

FROM STA. 22982+10 TO STA 23028+10

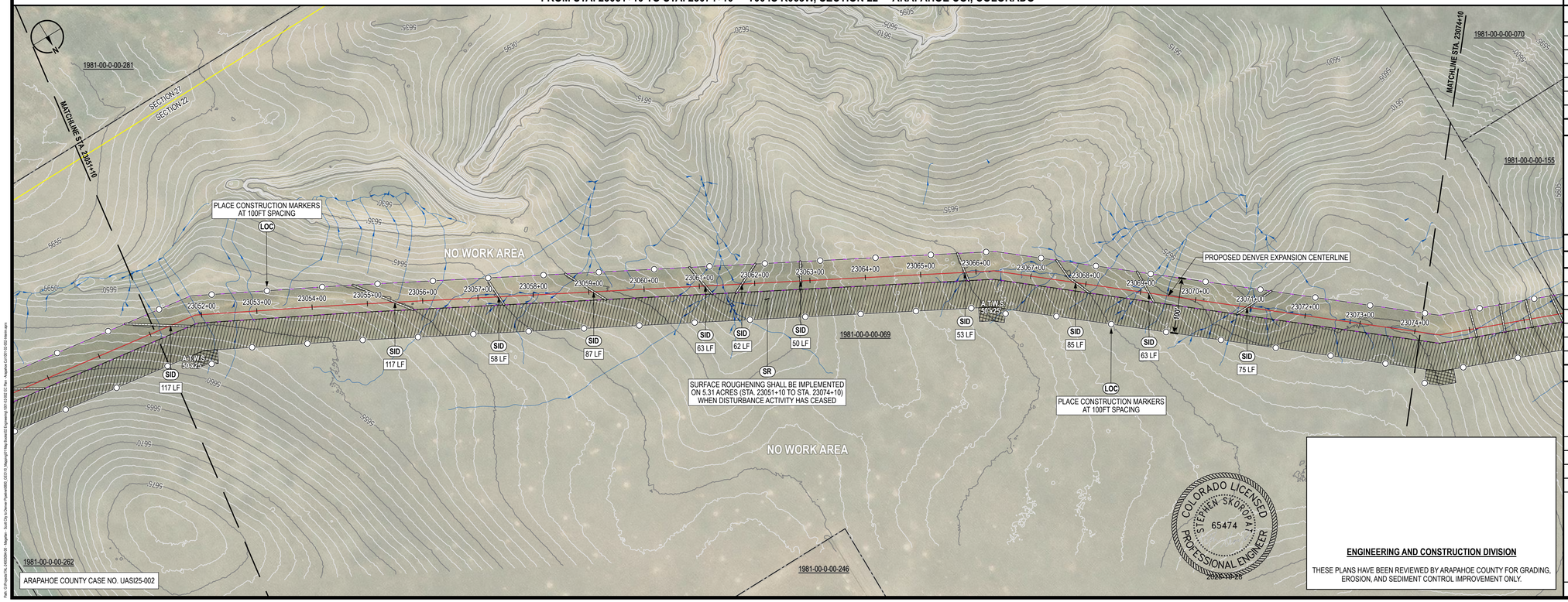
DWG. NUMBER:	1001-02-002-023-I	REVISION:	4

Path: G:\Projects\700_ONEOK\04-Mapping\...\GEOTIFF Map Books\02-Engineering\1001-02-002-02.mxd - Map Date: 10/24/2025 - Author: SS

FROM STA. 23028+10 TO STA. 23051+10 - T004S R063W, SECTIONS 27, 26, 22, 23 - ARAPAHOE CO., COLORADO



FROM STA. 23051+10 TO STA. 23074+10 - T004S R063W, SECTION 22 - ARAPAHOE CO., COLORADO



ARAPAHOE COUNTY CASE NO. UASI25-002

CONTROL MEASURE NOTES

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- NEW PERMANENT SITE
- NEW PERMANENT ACCESS
- ACCESS ROAD
- CONSTRUCTION MARKER
- SLOPE INTERCEPT DITCH
- SILT FENCE
- CONSTRUCTION FENCE
- VEHICLE TRACKING CONTROL
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- COUNTY BOUNDARY

0 100 200 400 US FEET

TRANSVERSE MERCATOR, NAD 1983 BLM ZONE 13N, U.S. FOOT

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DENVER EXPANSION PROJECT - SCOTT CITY TO DENVER PIPELINE

ONEOK
t: +1 (918) 588-7000
ONEOK Plaza
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f: +1 (713) 963-9085
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Houston, TX 77041, USA

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APPROVED BY:	SS	SHEET:	29 OF 95

COLORADO LICENSED STEPHEN SKOROPAT 65474 PROFESSIONAL ENGINEER

ENGINEERING AND CONSTRUCTION DIVISION

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INITIAL/INTERIM GRADING, EROSION AND SEDIMENT CONTROL PLAN ARAPAHOE COUNTY, COLORADO

FROM STA. 23028+10 TO STA 23074+10

DWG. NUMBER:	1001-02-002-024-I	REVISION:	4

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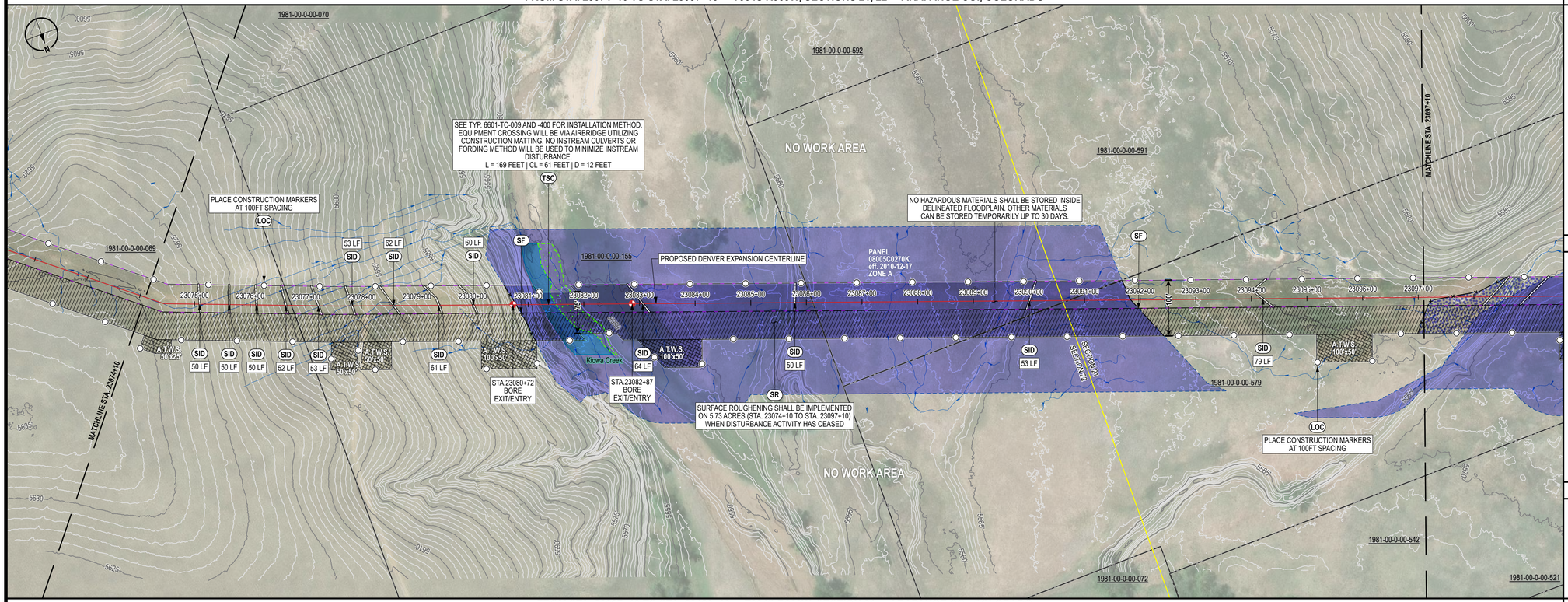

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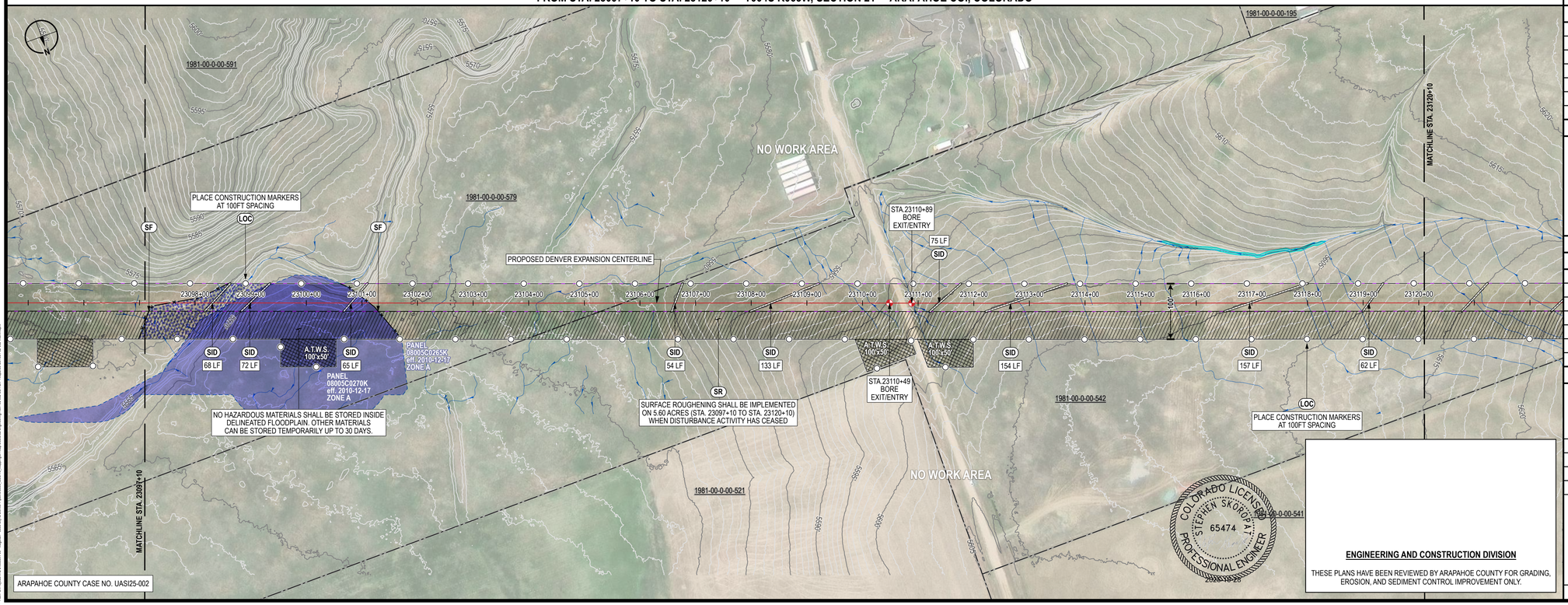

CONTROL MEASURE NOTES

- (VTC) VEHICLE TRACKING CONTROL
- (SR) SURFACE ROUGHENING
- (TSC) TEMPORARY STREAM CROSSING
- (SF) SILT FENCE
- (CF) CONSTRUCTION FENCE
- (SID) SLOPE INTERCEPT DITCH
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- (LOC) LIMITS OF CONSTRUCTION (SEE PROPOSED EASEMENT BOUNDARY / TEMPORARY WORKSPACE BOUNDARY BELOW)

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0 100 200 400 US FEET

TRANSVERSE MERCATOR, NAD 1983 BLM ZONE 13N, U.S. FOOT

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COLORADO LICENSED STEPHEN SKOROCKI 65474 PROFESSIONAL ENGINEER

ENGINEERING AND CONSTRUCTION DIVISION

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INITIAL/INTERIM GRADING, EROSION AND SEDIMENT CONTROL PLAN ARAPAHOE COUNTY, COLORADO

FROM STA. 23074+10 TO STA 23120+10

DWG. NUMBER: 1001-02-002-025-I REVISION: 4

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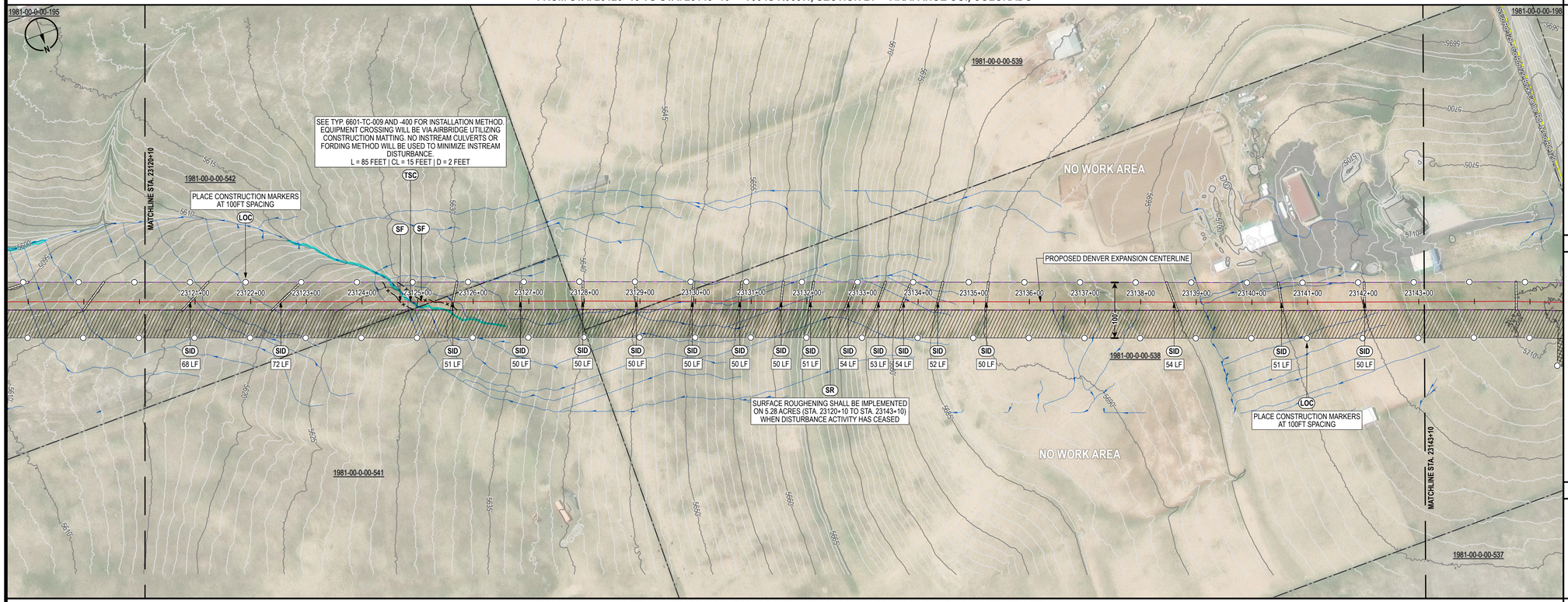

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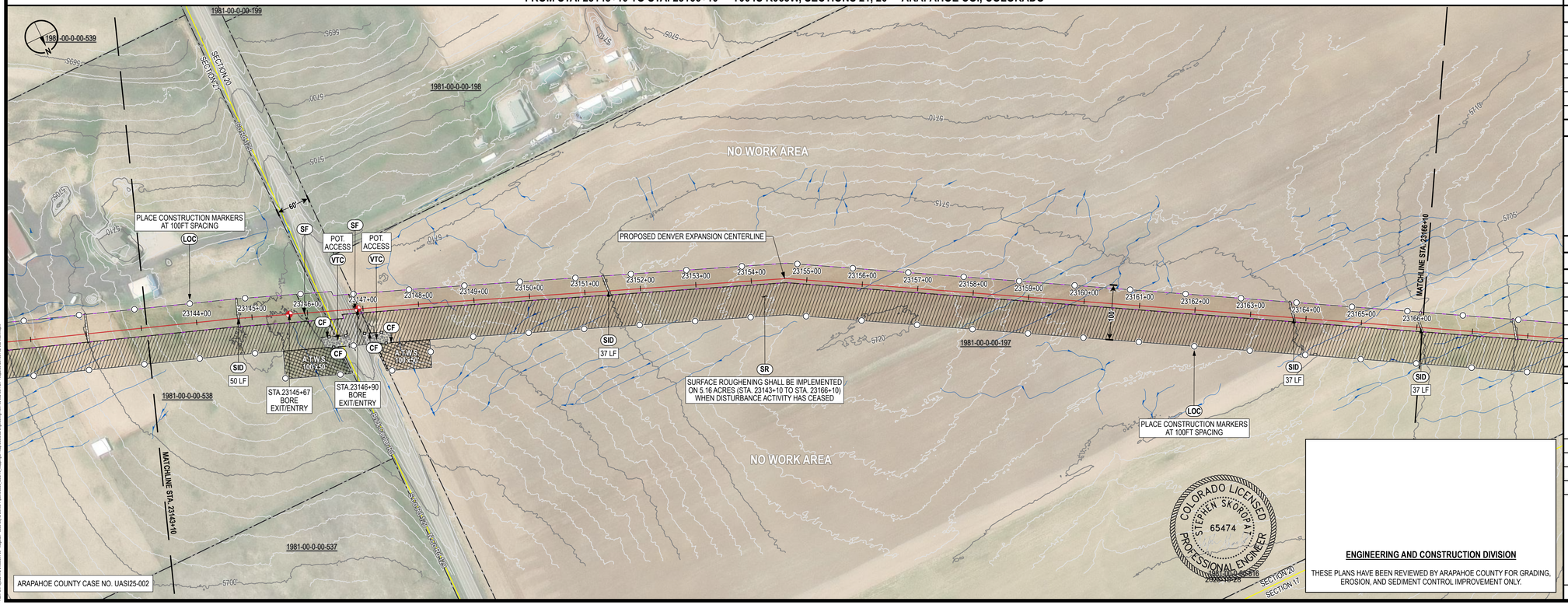

ARAPAHOE COUNTY CASE NO. UASI25-002

CONTROL MEASURE NOTES

- (VTC) VEHICLE TRACKING CONTROL
- (SR) SURFACE ROUGHENING
- (TSC) TEMPORARY STREAM CROSSING
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0 100 200 400 US FEET

TRANSVERSE MERCATOR, NAD 1983 BLM ZONE 13N, U.S. FOOT

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DENVER EXPANSION PROJECT - SCOTT CITY TO DENVER PIPELINE

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COLORADO LICENSED
STEPHEN SKOROPAT
65474
PROFESSIONAL ENGINEER
10/24/2025

ENGINEERING AND CONSTRUCTION DIVISION

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INITIAL/INTERIM GRADING, EROSION AND SEDIMENT CONTROL PLAN ARAPAHOE COUNTY, COLORADO

FROM STA. 23120+10 TO STA 23166+10

DWG. NUMBER: 1001-02-002-026-I

REVISION: 4

Path: G:\Projects\TSL_0400\0044-08 - Magellan - Scott City to Denver Pipeline\WIP\2_GIS\10_Mapping\01 Map Books\02 Engineering\1001-02-002-02 Plan - Alignment Grid\1001-02-002-02 Plan - Alignment Grid.mxd

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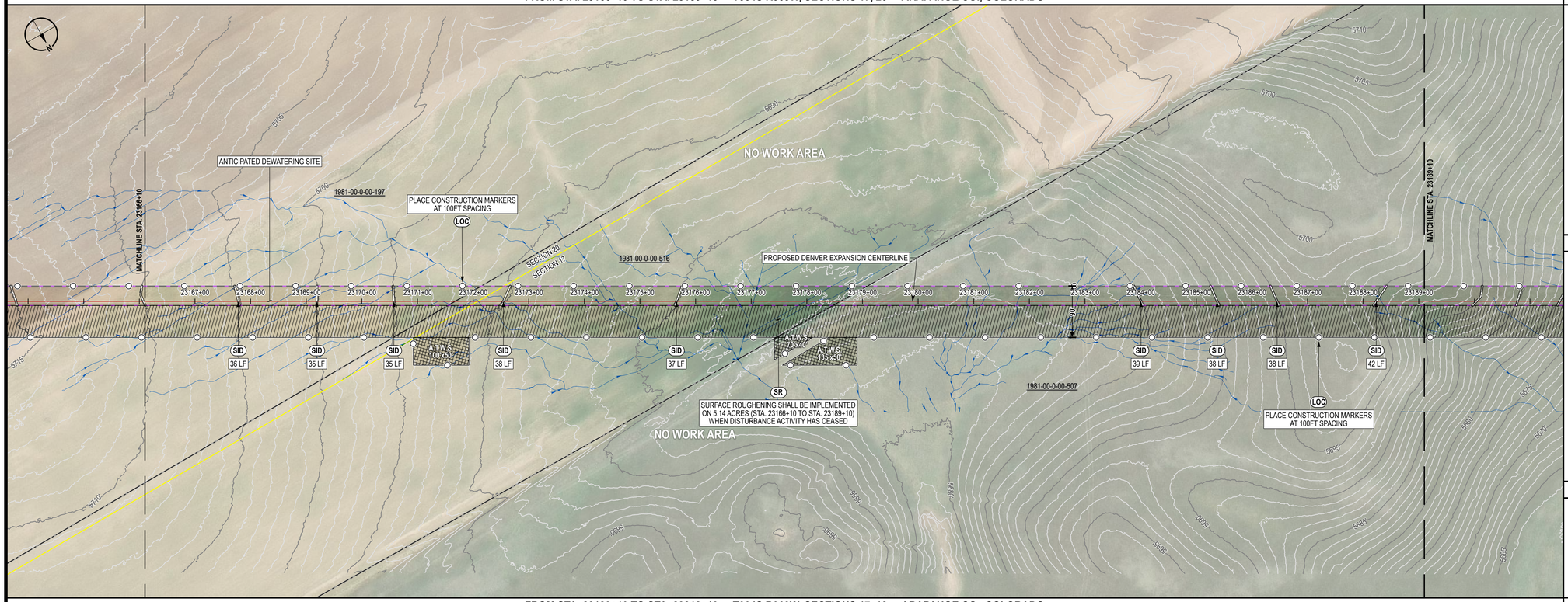

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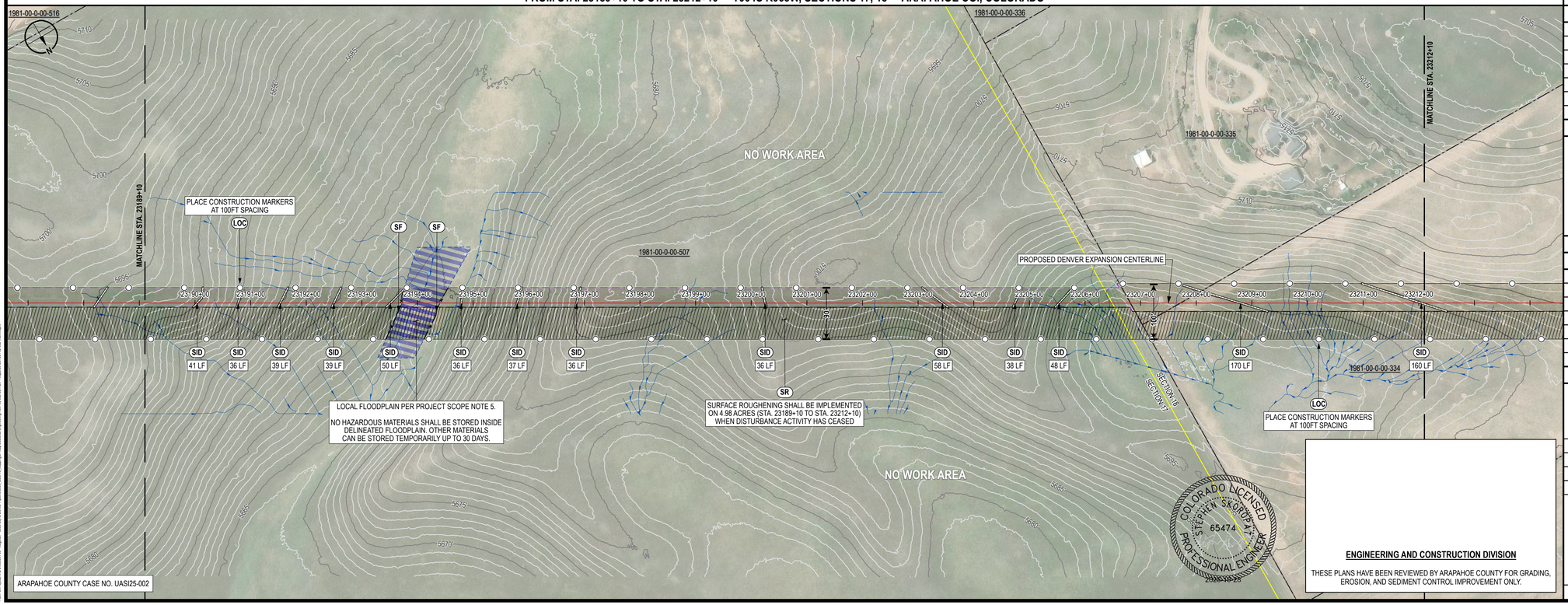

CONTROL MEASURE NOTES

- VTC — VEHICLE TRACKING CONTROL
- SR — SURFACE ROUGHENING
- TSC — TEMPORARY STREAM CROSSING
- SF — SILT FENCE
- CF — CONSTRUCTION FENCE
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- TOWNSHIP BOUNDARY
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0 100 200 400 US FEET

TRANSVERSE MERCATOR, NAD 1983 BLM ZONE 13N, U.S. FOOT

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DENVER EXPANSION PROJECT - SCOTT CITY TO DENVER PIPELINE

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INITIAL/INTERIM GRADING, EROSION AND SEDIMENT CONTROL PLAN ARAPAHOE COUNTY, COLORADO

FROM STA. 23166+10 TO STA 23212+10

DWG. NUMBER:	1001-02-002-027-I	REVISION:	4

COLORADO LICENSED
STEPHEN SKORA
65474
PROFESSIONAL ENGINEER

ENGINEERING AND CONSTRUCTION DIVISION

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Xref: G:\Projects\70k_0400564-04 - Magellan - Scott City to Denver Pipeline\0800_GEO\16_Mapping\01 Map Books\02 Engineering\1001-02-002-027-I Rev - Arapahoe Co\1001-02-002-Sheets.dwg

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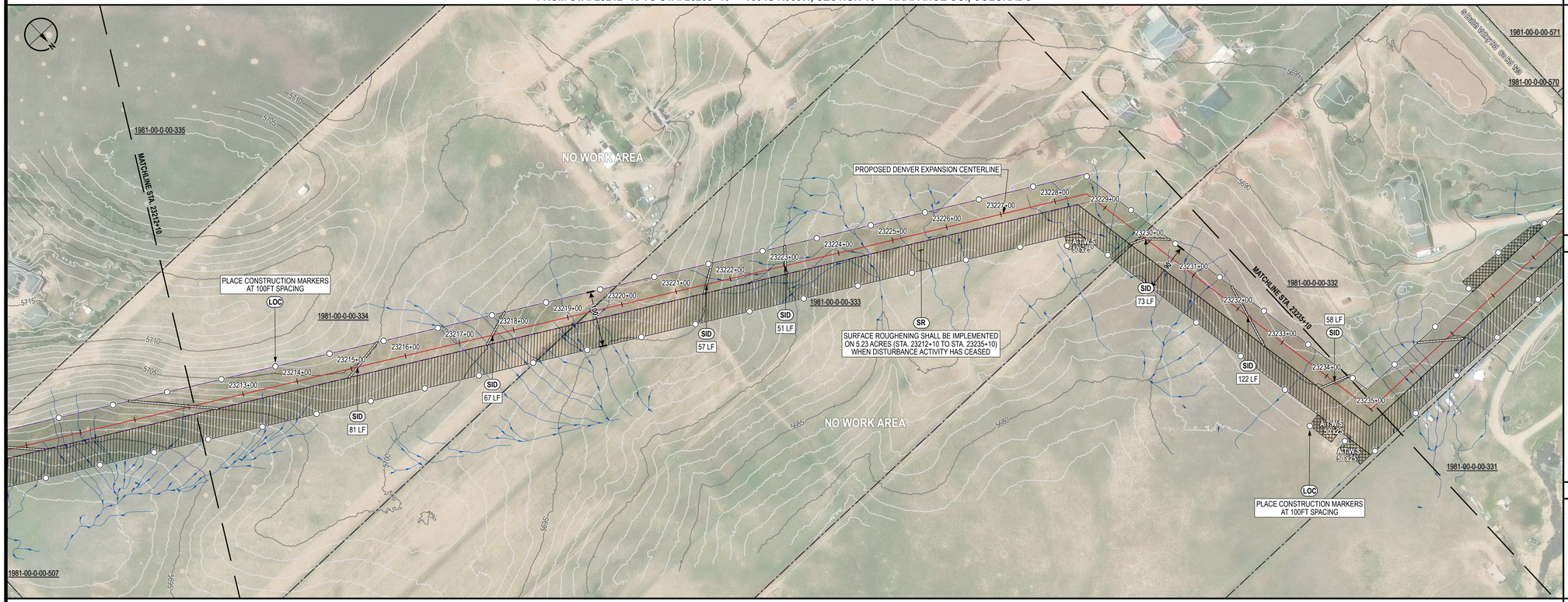

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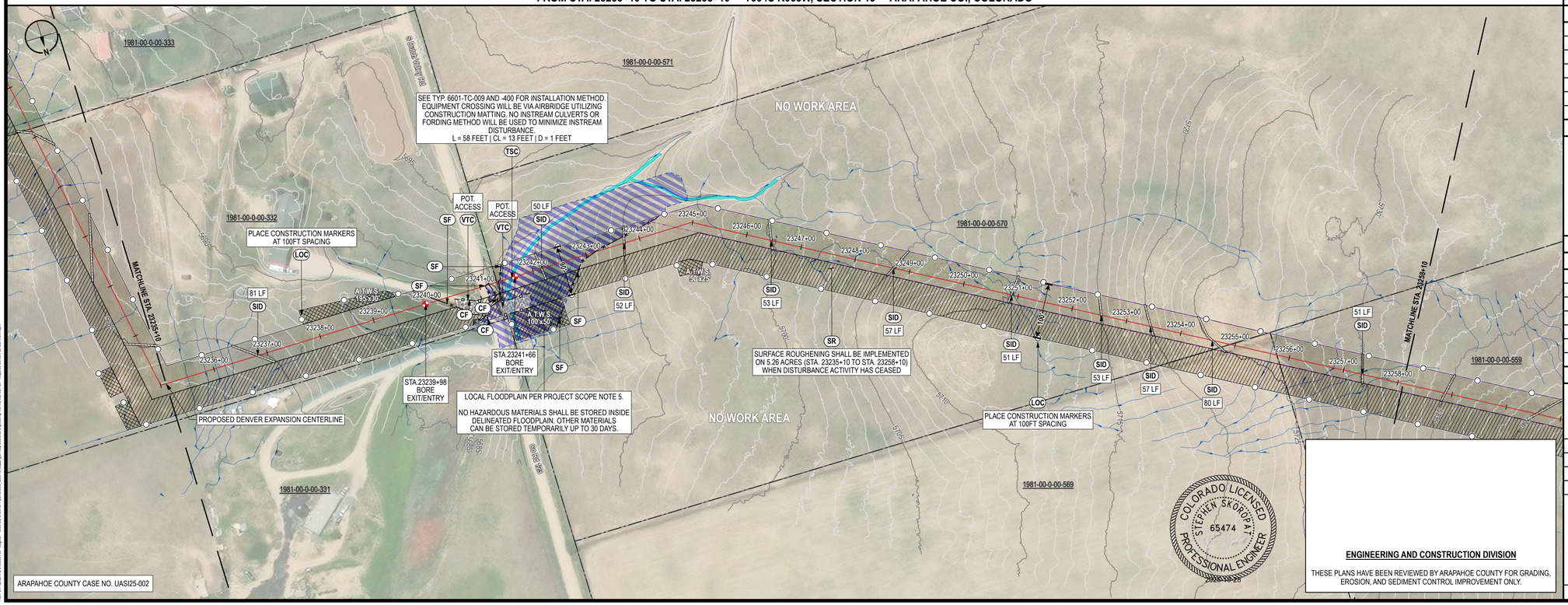

ARAPAHOE COUNTY CASE NO. UASI25-002

CONTROL MEASURE NOTES

- VTC — VEHICLE TRACKING CONTROL
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- TSC — TEMPORARY STREAM CROSSING
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0 — 100 — 200 — 400 US FEET

TRANSVERSE MERCATOR, NAD 1983 BLM ZONE 13N, U.S. FOOT

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COLORADO LICENSED — STEPHEN SKOROPAT — 65474 — PROFESSIONAL ENGINEER

ENGINEERING AND CONSTRUCTION DIVISION

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INITIAL/INTERIM GRADING, EROSION AND SEDIMENT CONTROL PLAN ARAPAHOE COUNTY, COLORADO

FROM STA. 23212+10 TO STA 23258+10

DWG. NUMBER:	1001-02-002-028-I	REVISION:	4

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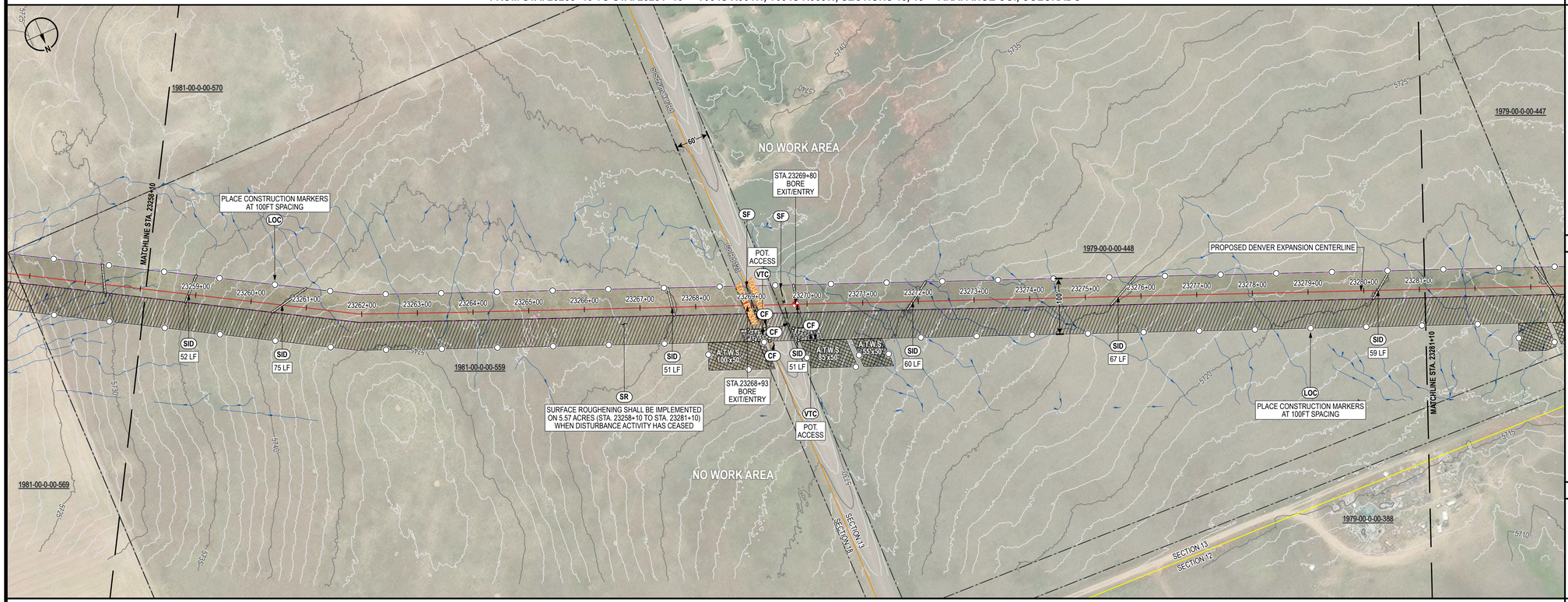

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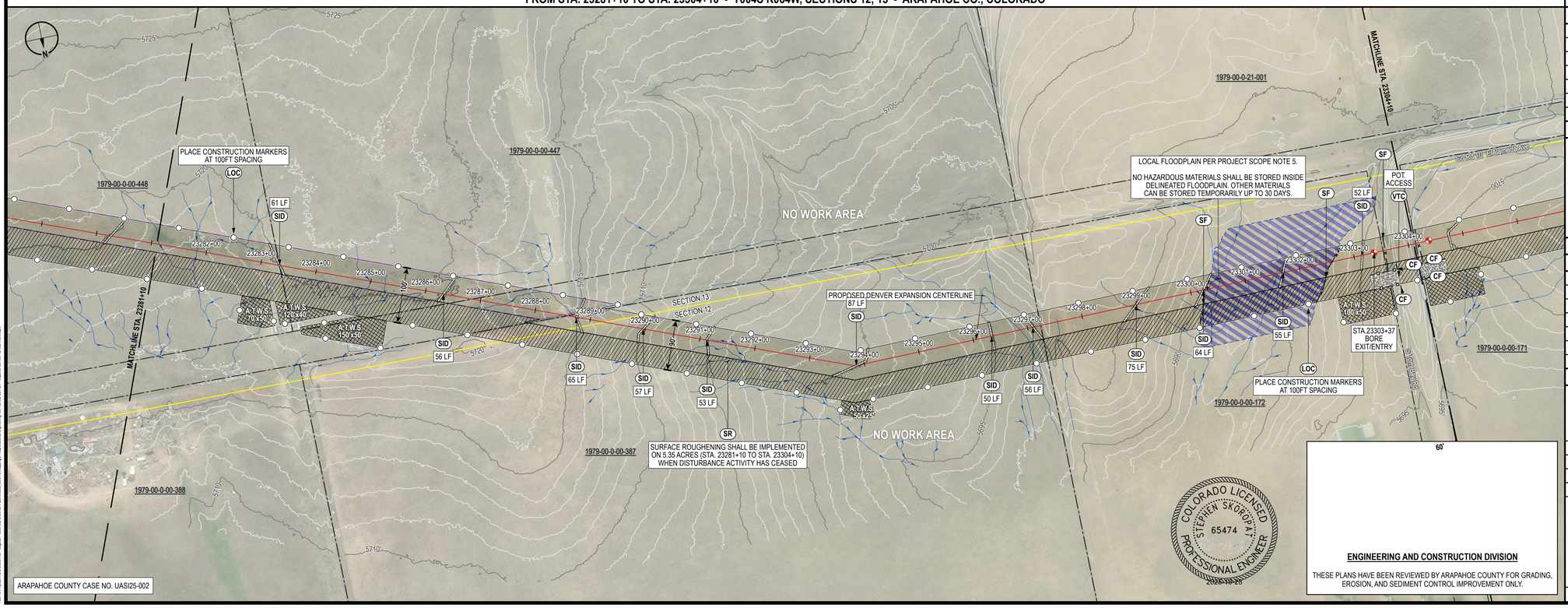

ARAPAHOE COUNTY CASE NO. UASI25-002

CONTROL MEASURE NOTES

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TRANSVERSE MERCATOR, NAD 1983 BLM ZONE 13N, U.S. FOOT

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COLORADO LICENSED STEPHEN SKOROPAT 65474 PROFESSIONAL ENGINEER

ENGINEERING AND CONSTRUCTION DIVISION

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INITIAL/INTERIM GRADING, EROSION AND SEDIMENT CONTROL PLAN ARAPAHOE COUNTY, COLORADO

FROM STA. 23258+10 TO STA 23304+10

DWG. NUMBER: 1001-02-002-029-I

REVISION: 4

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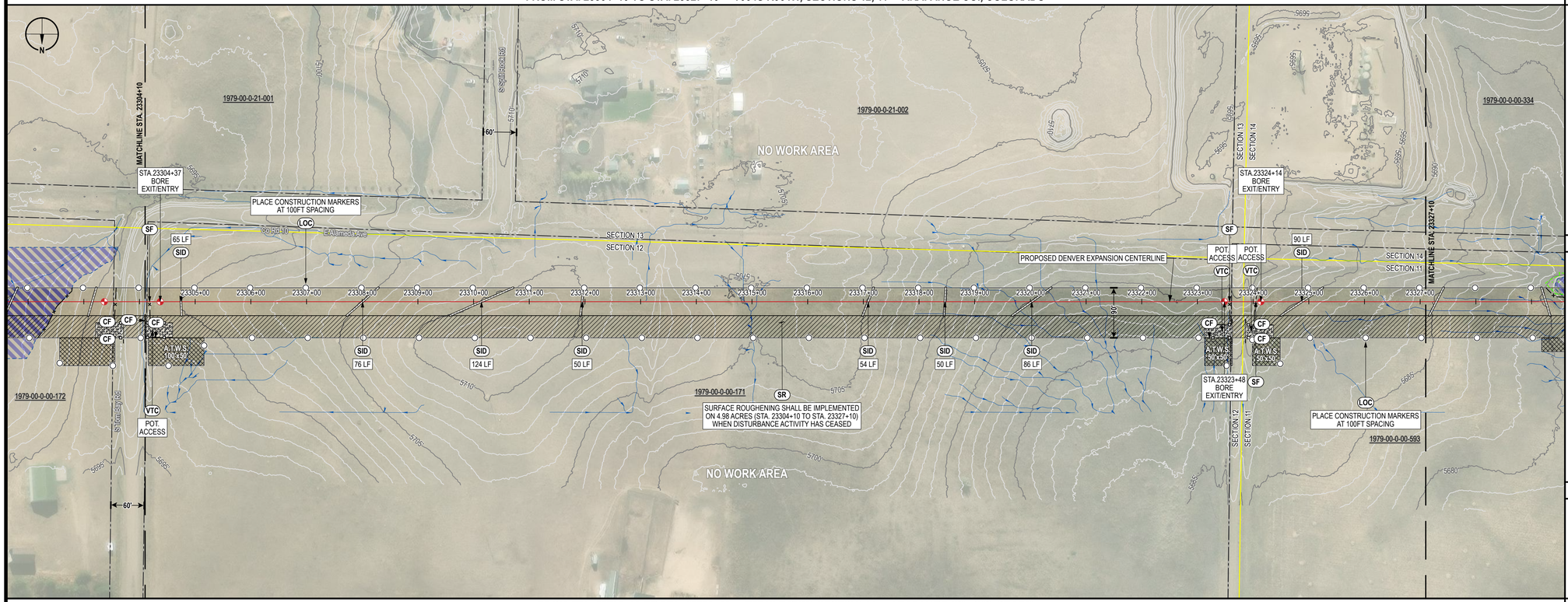

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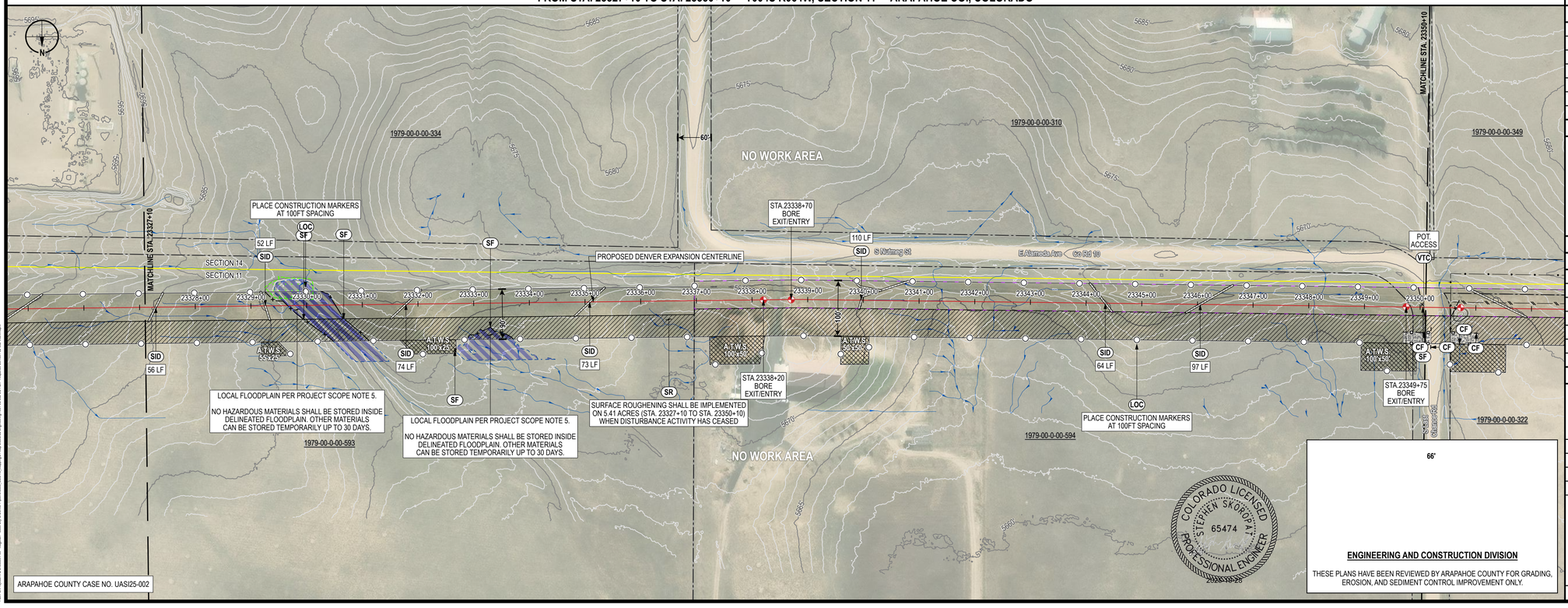

ARAPAHOE COUNTY CASE NO. UASI25-002

CONTROL MEASURE NOTES

- (VTC) VEHICLE TRACKING CONTROL
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- (TSC) TEMPORARY STREAM CROSSING
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- (CF) CONSTRUCTION FENCE
- (SID) SLOPE INTERCEPT DITCH
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- FEMA FLOODPLAIN
- FEMA FLOODPLAIN ANALYSIS DELINEATION
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- TOWNSHIP BOUNDARY
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0 100 200 400 US FEET

TRANSVERSE MERCATOR, NAD 1983 BLM ZONE 13N, U.S. FOOT

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DENVER EXPANSION PROJECT - SCOTT CITY TO DENVER PIPELINE

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COLORADO LICENSED STEPHEN SKOROPAT 65474 PROFESSIONAL ENGINEER

ENGINEERING AND CONSTRUCTION DIVISION

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INITIAL/INTERIM GRADING, EROSION AND SEDIMENT CONTROL PLAN ARAPAHOE COUNTY, COLORADO

FROM STA. 23304+10 TO STA 23350+10

DWG. NUMBER: 1001-02-002-030-I

REVISION: 4

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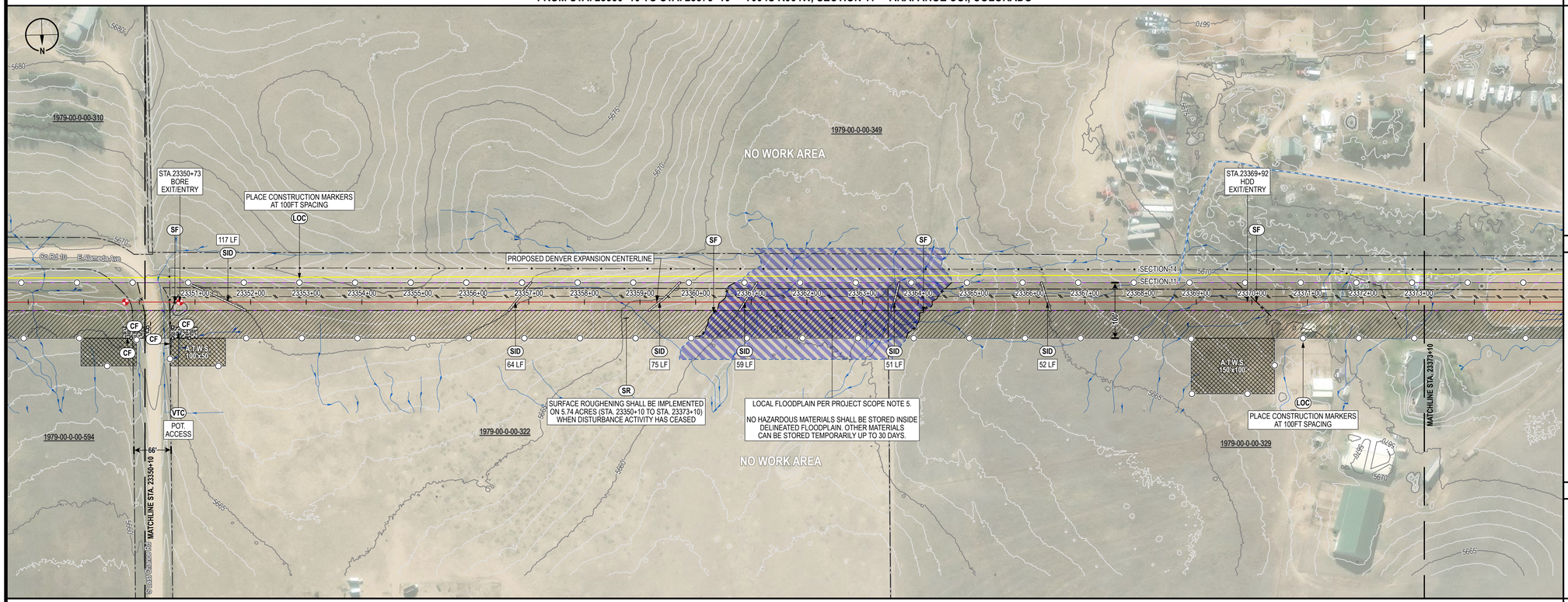

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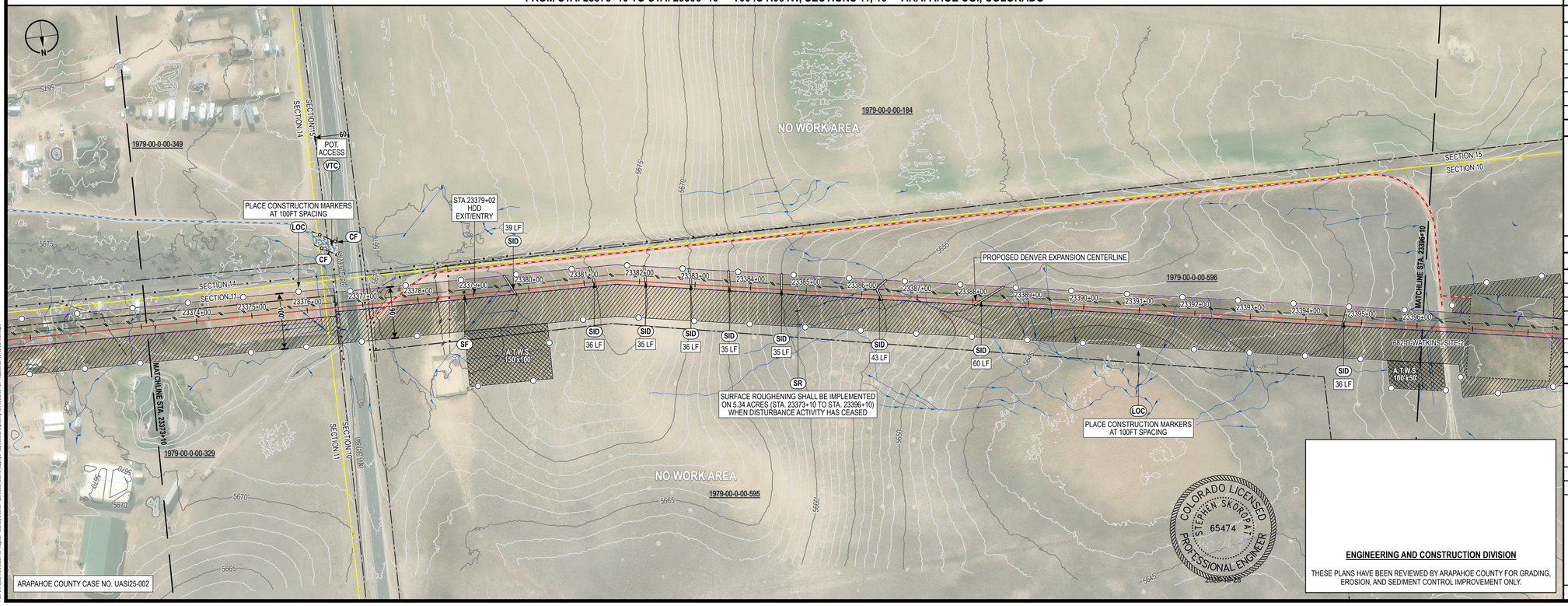

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INITIAL/INTERIM GRADING, EROSION AND SEDIMENT CONTROL PLAN ARAPAHOE COUNTY, COLORADO

FROM STA. 23350+10 TO STA 23396+10

DWG. NUMBER:	1001-02-002-031-I	REVISION:	4

COLORADO LICENSED STEPHEN SKOROPAT 65474 PROFESSIONAL ENGINEER

ENGINEERING AND CONSTRUCTION DIVISION

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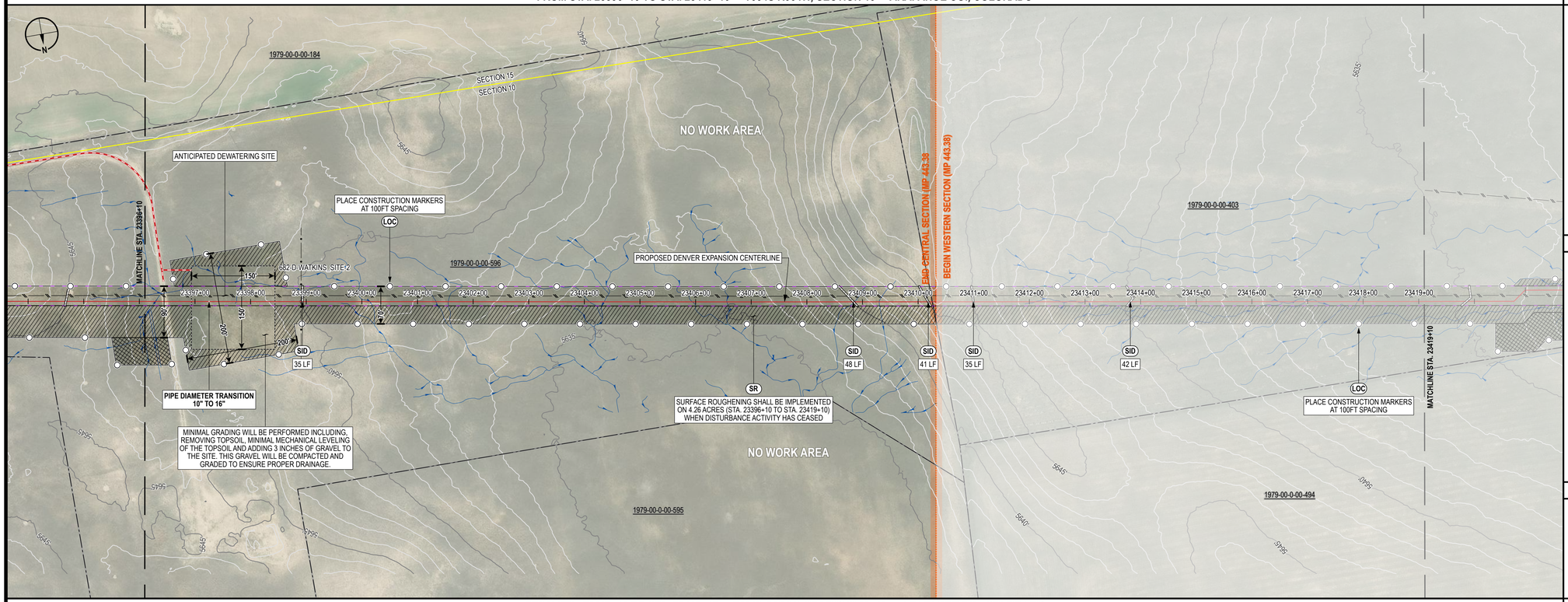

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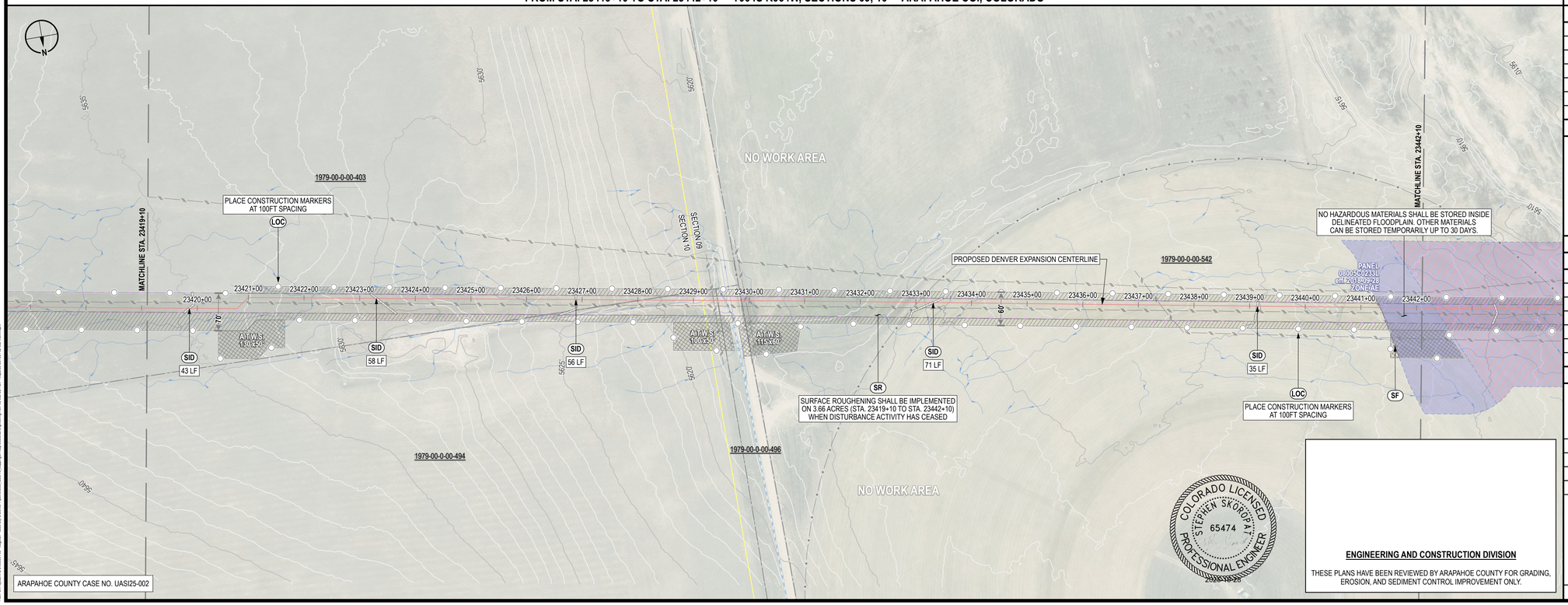

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TRANSVERSE MERCATOR, NAD 1983 BLM ZONE 13N, U.S. FOOT

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COLORADO LICENSED
STEPHEN SKOROPAT
65474
PROFESSIONAL ENGINEER

ENGINEERING AND CONSTRUCTION DIVISION

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INITIAL/INTERIM GRADING, EROSION AND SEDIMENT CONTROL PLAN ARAPAHOE COUNTY, COLORADO

FROM STA. 23396+10 TO STA 23442+10

DWG. NUMBER:	1001-02-002-032-I	REVISION:	4

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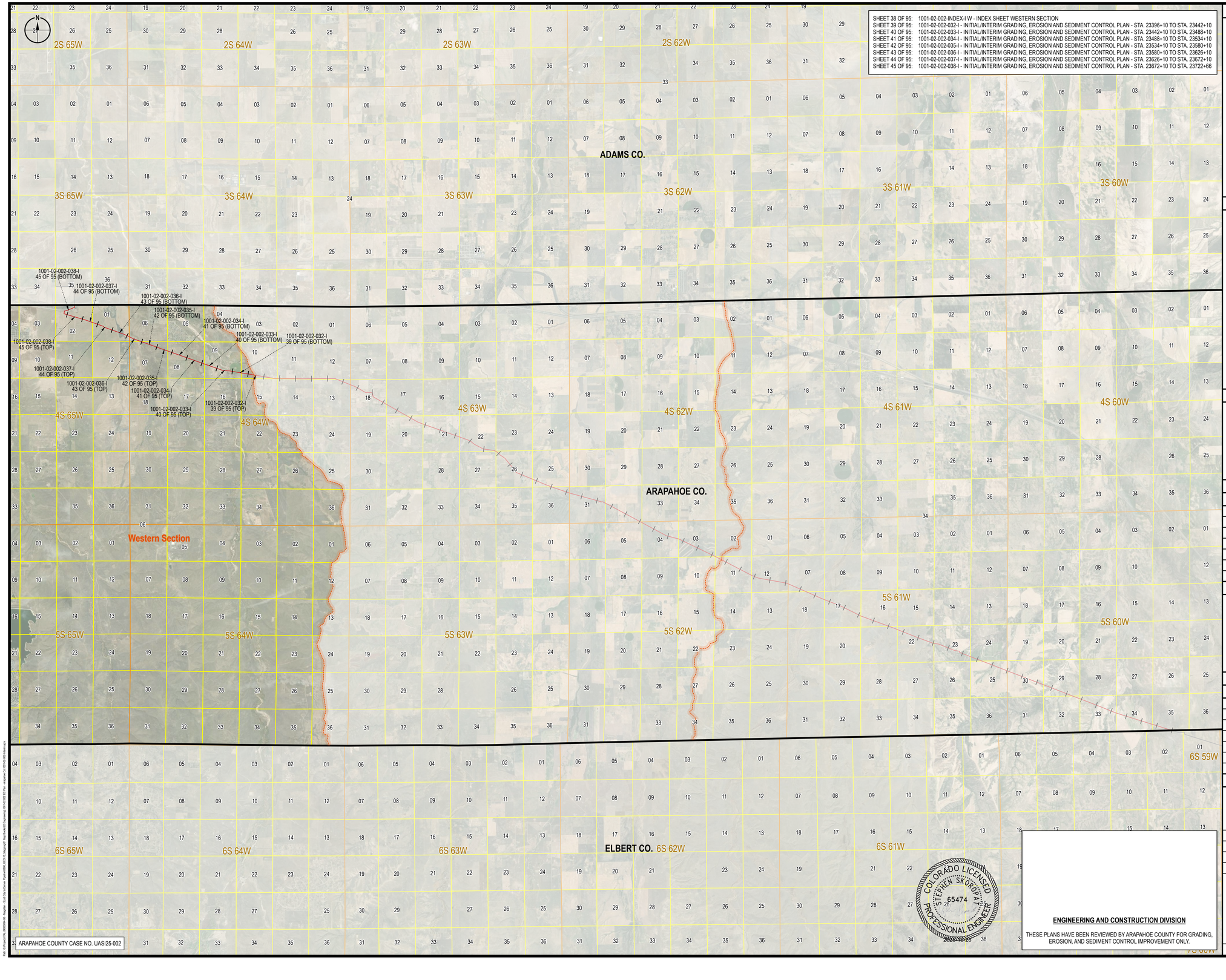

SHEET 38 OF 95:	1001-02-002-INDEX-I W - INDEX SHEET WESTERN SECTION
SHEET 39 OF 95:	1001-02-002-032-I - INITIAL/INTERIM GRADING, EROSION AND SEDIMENT CONTROL PLAN - STA. 23396+10 TO STA. 23442+10
SHEET 40 OF 95:	1001-02-002-033-I - INITIAL/INTERIM GRADING, EROSION AND SEDIMENT CONTROL PLAN - STA. 23442+10 TO STA. 23488+10
SHEET 41 OF 95:	1001-02-002-034-I - INITIAL/INTERIM GRADING, EROSION AND SEDIMENT CONTROL PLAN - STA. 23488+10 TO STA. 23534+10
SHEET 42 OF 95:	1001-02-002-035-I - INITIAL/INTERIM GRADING, EROSION AND SEDIMENT CONTROL PLAN - STA. 23534+10 TO STA. 23580+10
SHEET 43 OF 95:	1001-02-002-036-I - INITIAL/INTERIM GRADING, EROSION AND SEDIMENT CONTROL PLAN - STA. 23580+10 TO STA. 23626+10
SHEET 44 OF 95:	1001-02-002-037-I - INITIAL/INTERIM GRADING, EROSION AND SEDIMENT CONTROL PLAN - STA. 23626+10 TO STA. 23672+10
SHEET 45 OF 95:	1001-02-002-038-I - INITIAL/INTERIM GRADING, EROSION AND SEDIMENT CONTROL PLAN - STA. 23672+10 TO STA. 23722+66

CONTROL MEASURE NOTES

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0 5,000 10,000 20,000 US FEET

TRANSVERSE MERCATOR, NAD 1983 BLM ZONE 13N, U.S. FOOT

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DENVER EXPANSION PROJECT - SCOTT CITY TO DENVER PIPELINE

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INITIAL/INTERIM GRADING, EROSION AND SEDIMENT CONTROL PLAN ARAPAHOE COUNTY, COLORADO

INDEX SHEET - WESTERN REGION

DWG. NUMBER:	1001-02-002-INDEX-F W	REVISION:	4

ARAPAHOE COUNTY CASE NO. UASI25-002

COLORADO LICENSED STEPHEN SKOROPAT 65474 PROFESSIONAL ENGINEER 2025-10-28

ENGINEERING AND CONSTRUCTION DIVISION

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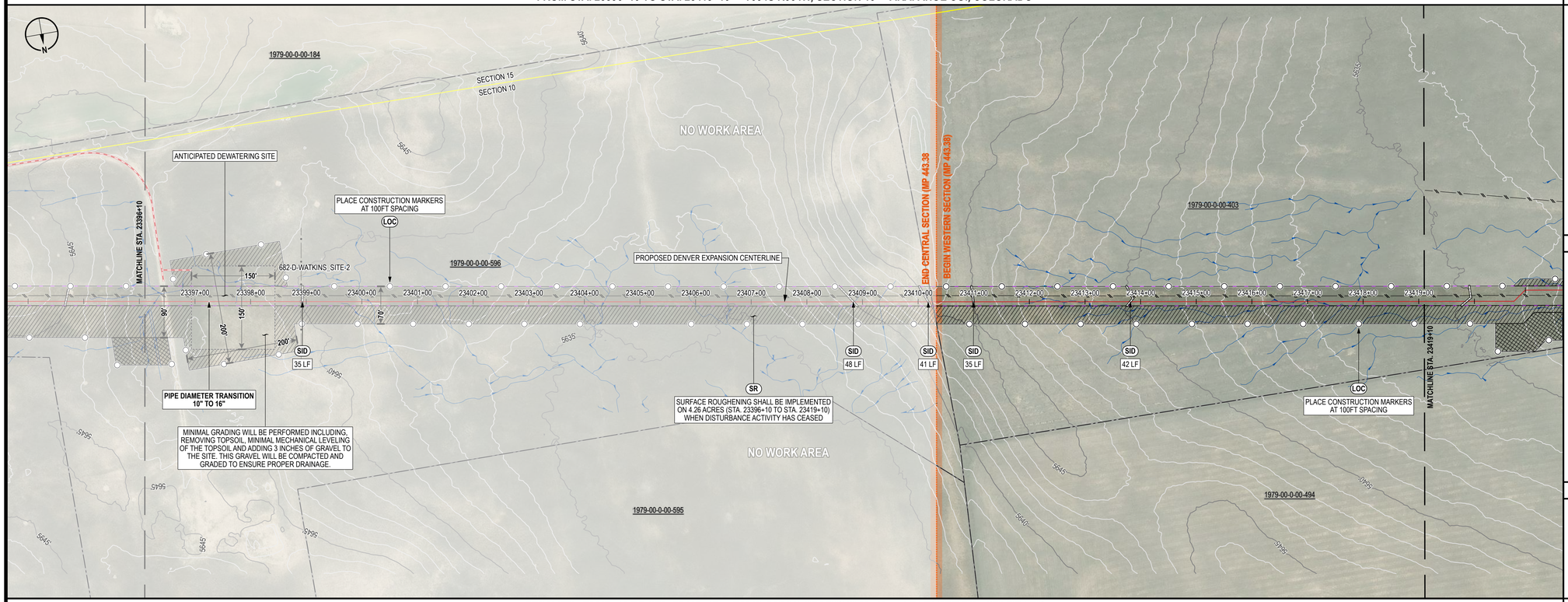

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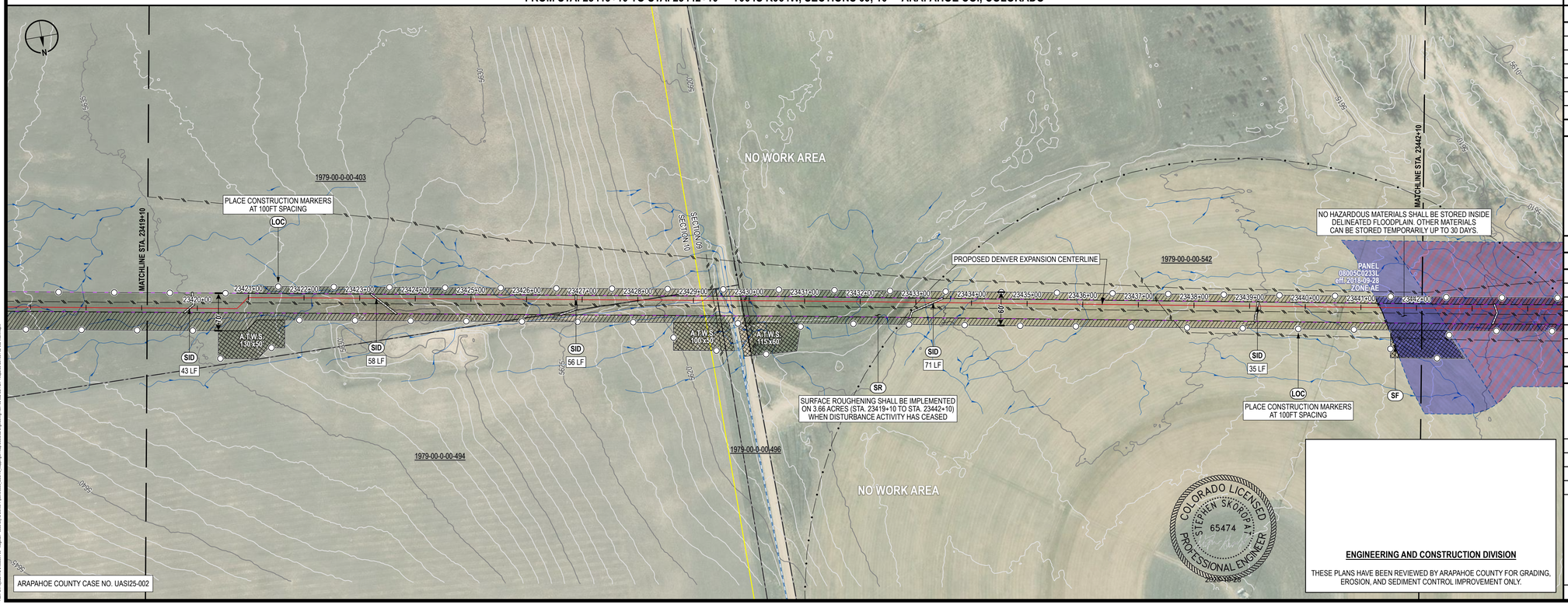

ARAPAHOE COUNTY CASE NO. UASI25-002

ENGINEERING AND CONSTRUCTION DIVISION

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COLORADO LICENSED STEPHEN SKOROPAT 65474 PROFESSIONAL ENGINEER

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TRANSVERSE MERCATOR, NAD 1983 BLM ZONE 13N, U.S. FOOT

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INITIAL/INTERIM GRADING, EROSION AND SEDIMENT CONTROL PLAN ARAPAHOE COUNTY, COLORADO

FROM STA. 23396+10 TO STA 23442+10

DWG. NUMBER: 1001-02-002-032-I

REVISION: 4

Xref: G:\Projects\ONEOK_0400\0044-00 - Magellan - Scott City to Denver Pipeline\0002_GEO\16 Mapping\01 Map Books\02 Engineering\1001-02-002-032-I Rev - Arapahoe Co\1001-02-002-Interim.dwg

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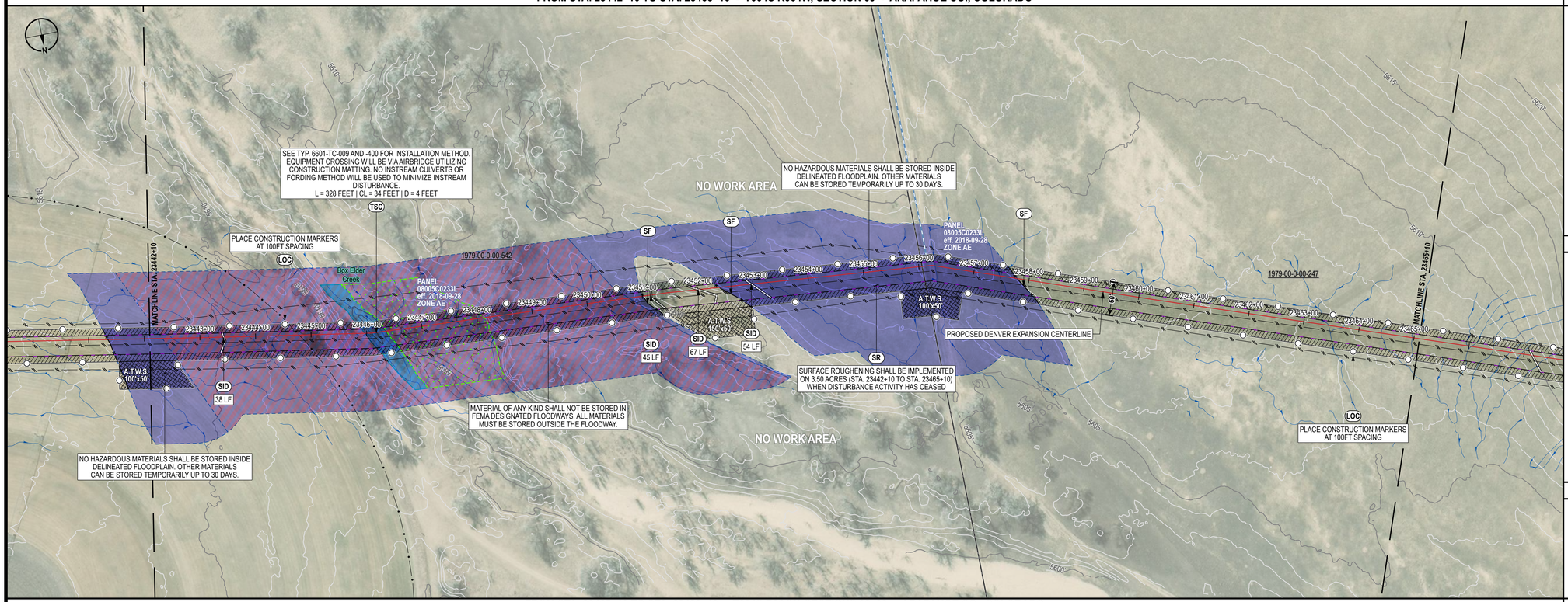

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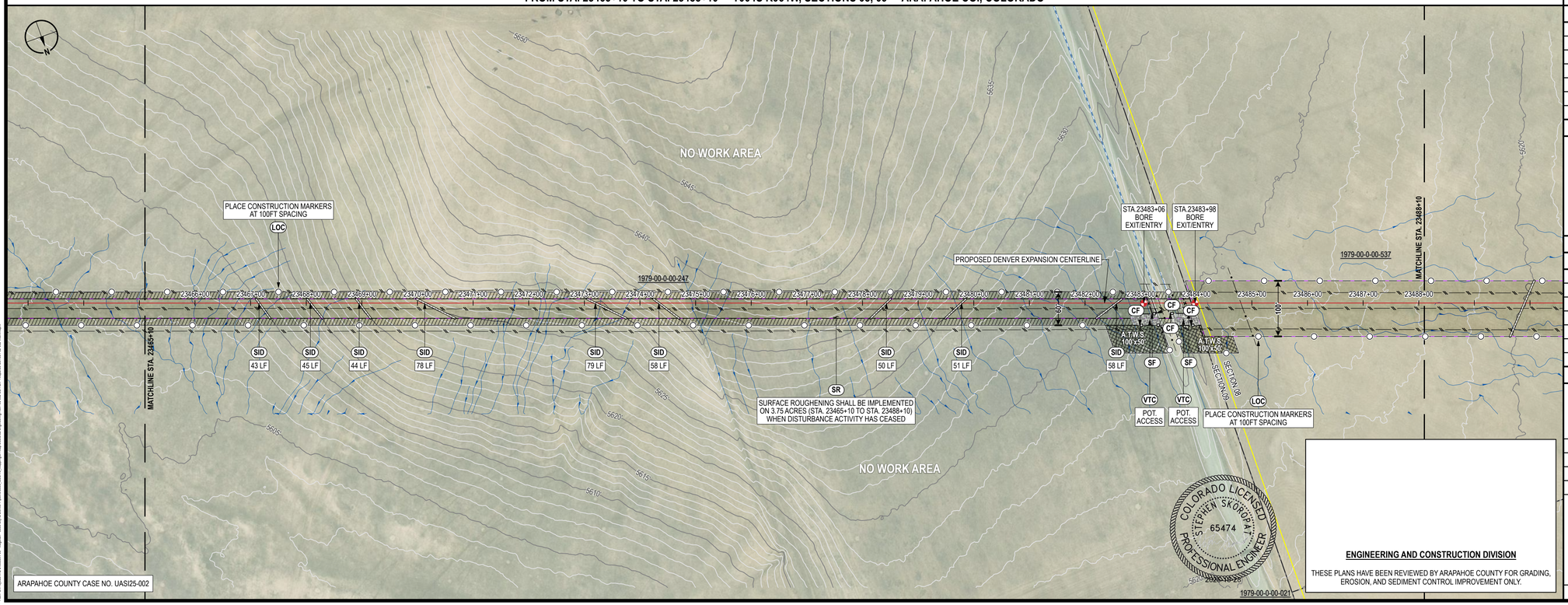

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DENVER EXPANSION PROJECT - SCOTT CITY TO DENVER PIPELINE

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MAGELLAN MIDSTREAM PARTNERS

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Houston, TX 77041, USA

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COLORADO LICENSED STEPHEN SKOROPAT 65474 PROFESSIONAL ENGINEER

ENGINEERING AND CONSTRUCTION DIVISION

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INITIAL/INTERIM GRADING, EROSION AND SEDIMENT CONTROL PLAN ARAPAHOE COUNTY, COLORADO

FROM STA. 23442+10 TO STA 23488+10

DWG. NUMBER: 1001-02-002-033-I REVISION: 4

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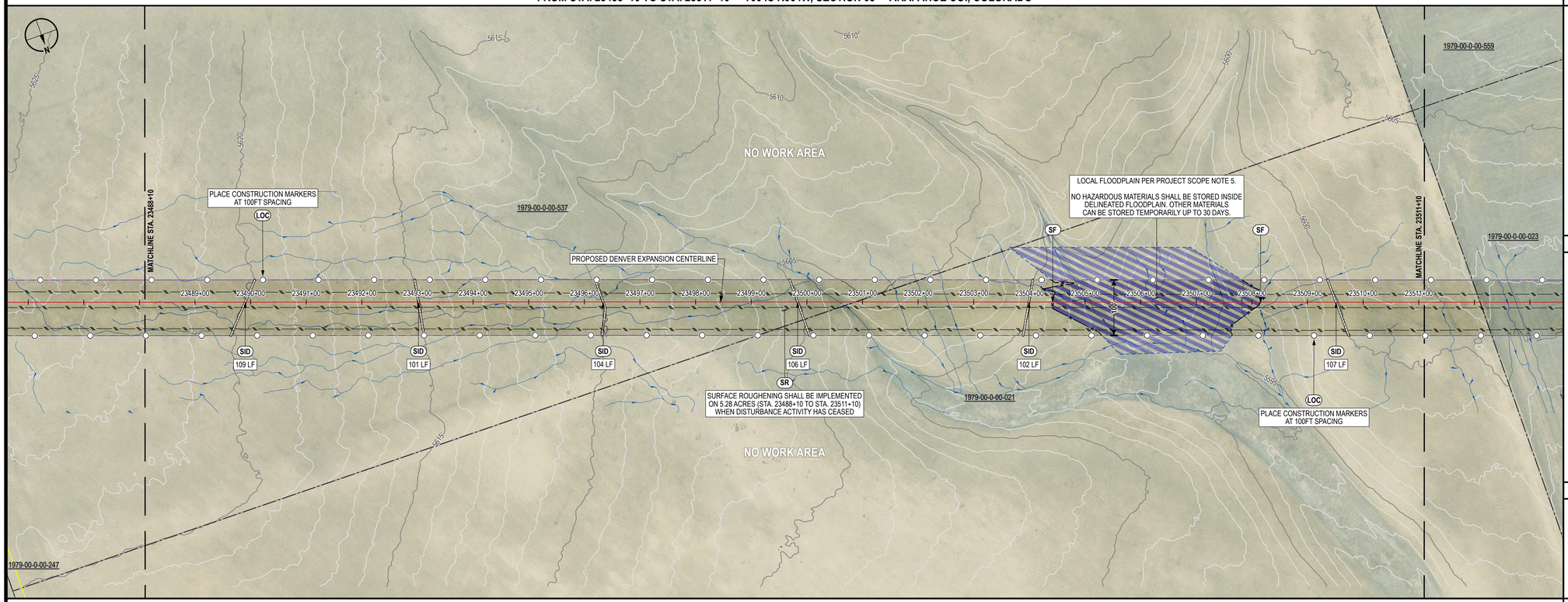
FROM STA. 23488+10 TO STA. 23511+10 - T004S R064W, SECTION 08 - ARAPAHOE CO., COLORADO



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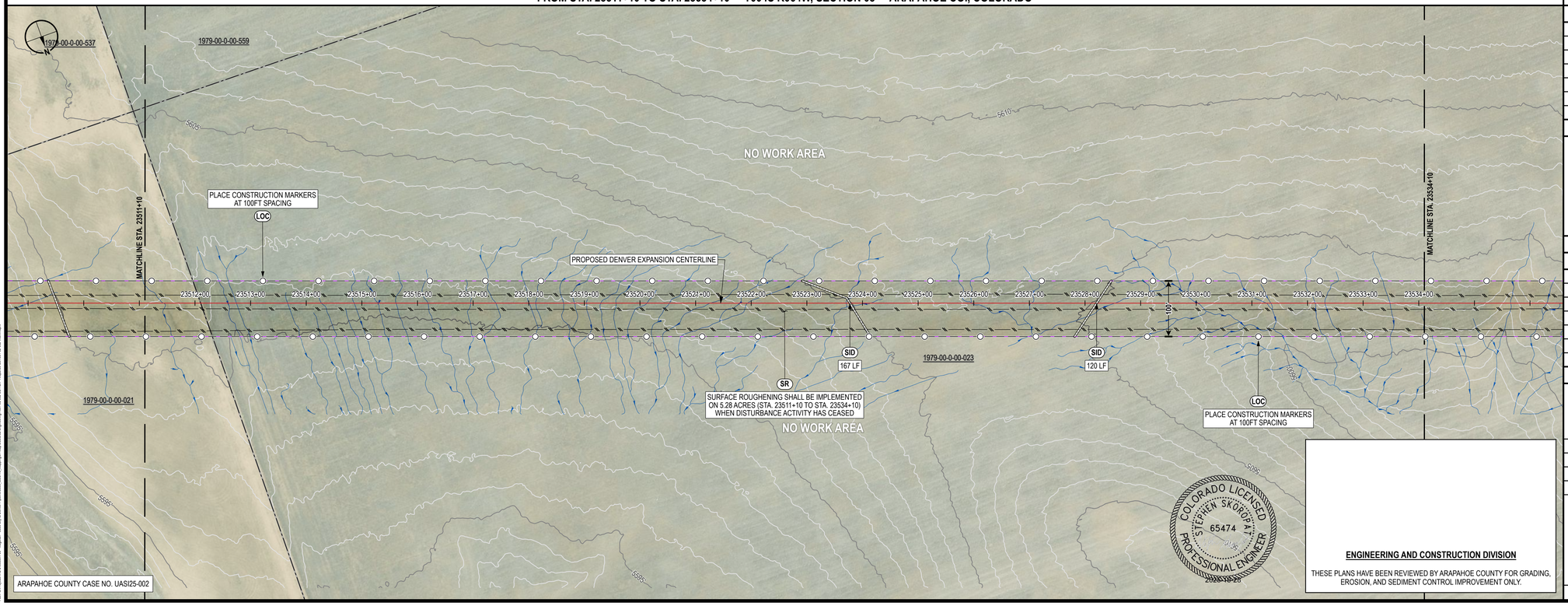

CONTROL MEASURE NOTES

- (VTC) VEHICLE TRACKING CONTROL
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- (TSC) TEMPORARY STREAM CROSSING
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TRANSVERSE MERCATOR, NAD 1983 BLM ZONE 13N, U.S. FOOT

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FROM STA. 23488+10 TO STA 23534+10

DWG. NUMBER:	1001-02-002-034-I	REVISION:	4

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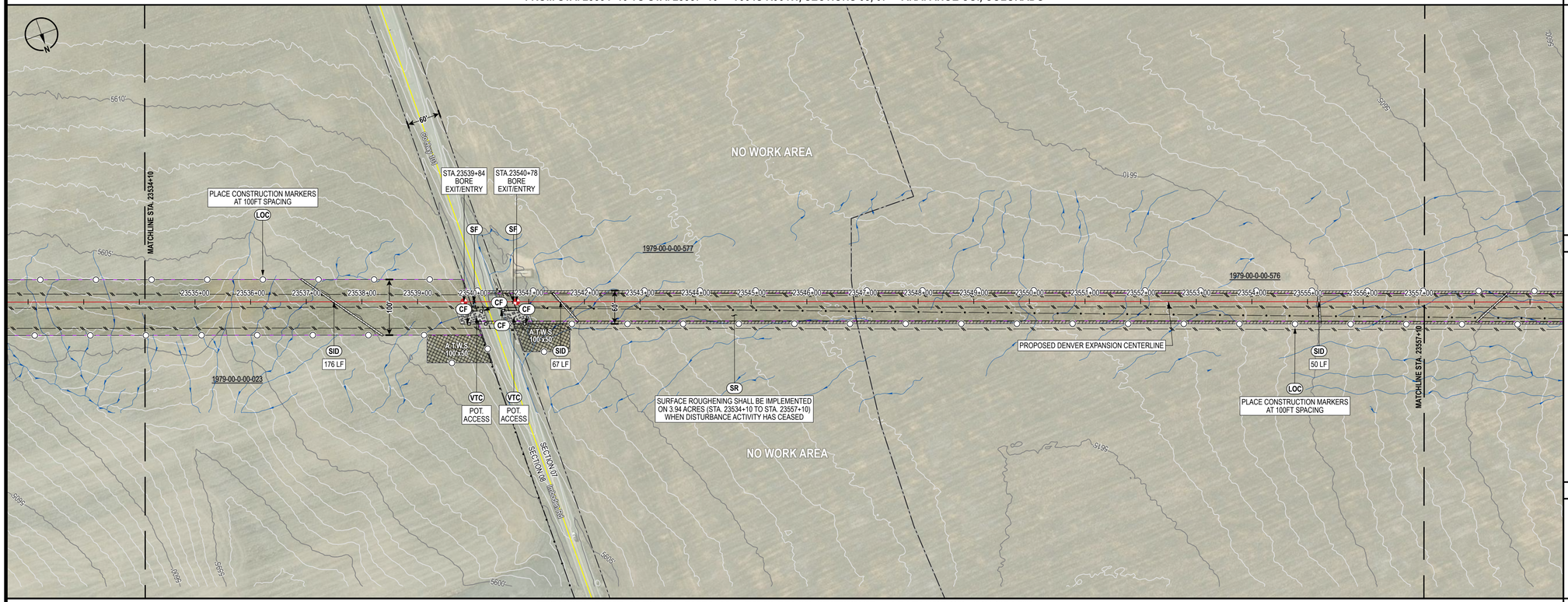

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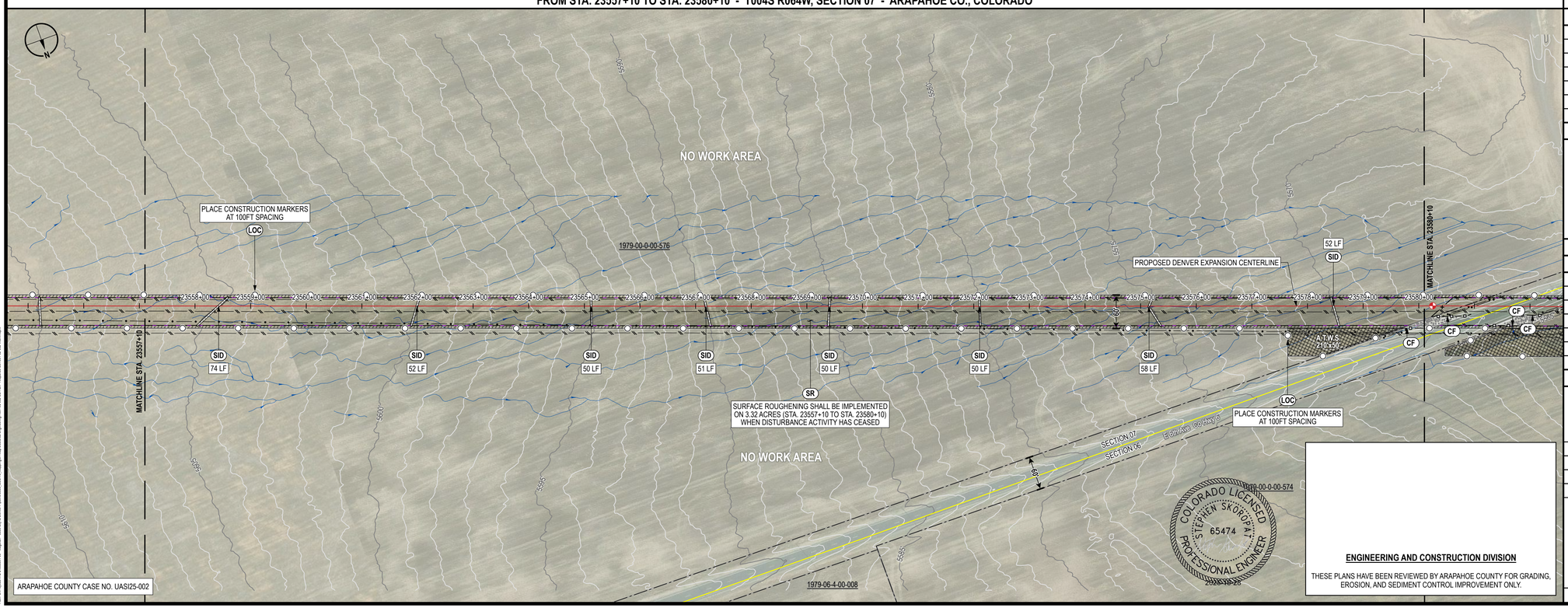

ARAPAHOE COUNTY CASE NO. UASI25-002

CONTROL MEASURE NOTES

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- (TSC) TEMPORARY STREAM CROSSING
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0 100 200 400 US FEET

TRANSVERSE MERCATOR, NAD 1983 BLM ZONE 13N, U.S. FOOT

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INITIAL/INTERIM GRADING, EROSION AND SEDIMENT CONTROL PLAN ARAPAHOE COUNTY, COLORADO

FROM STA. 23534+10 TO STA 23580+10

DWG. NUMBER:	1001-02-002-035-I	REVISION:	4

COLORADO LICENSED STEPHEN SKOROPAT 65474 PROFESSIONAL ENGINEER

ENGINEERING AND CONSTRUCTION DIVISION

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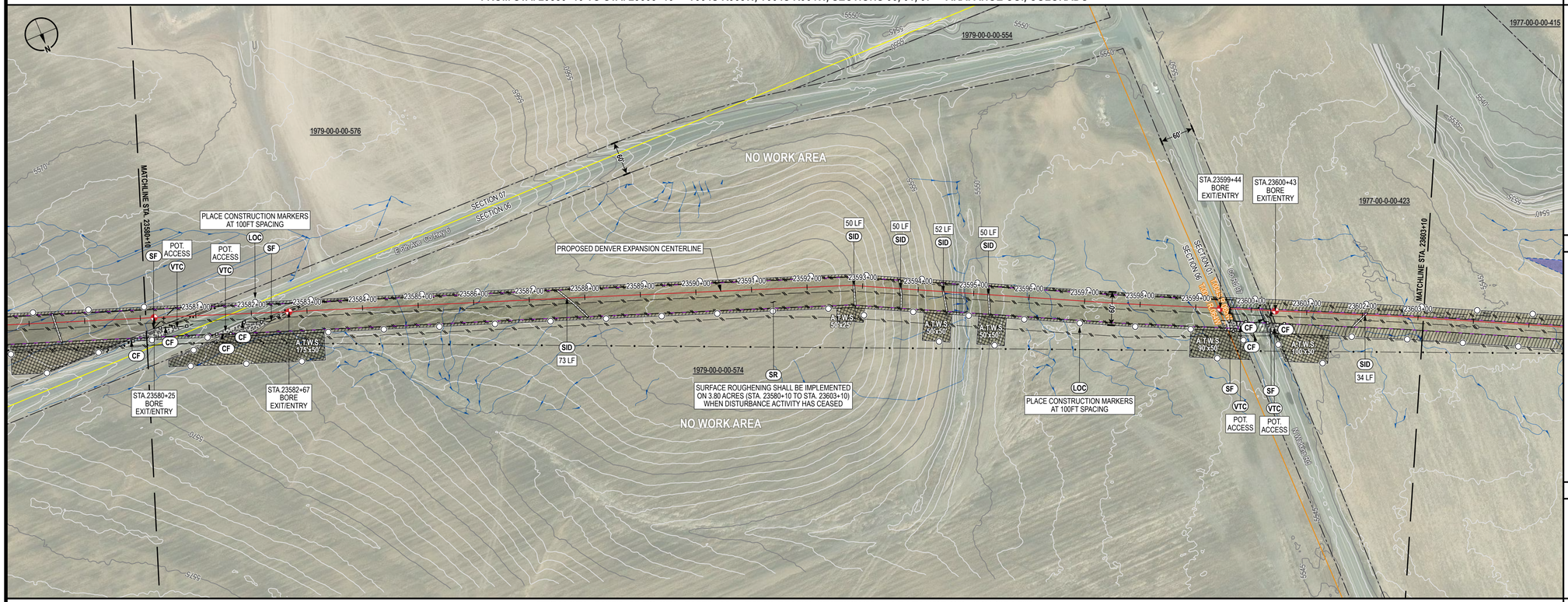

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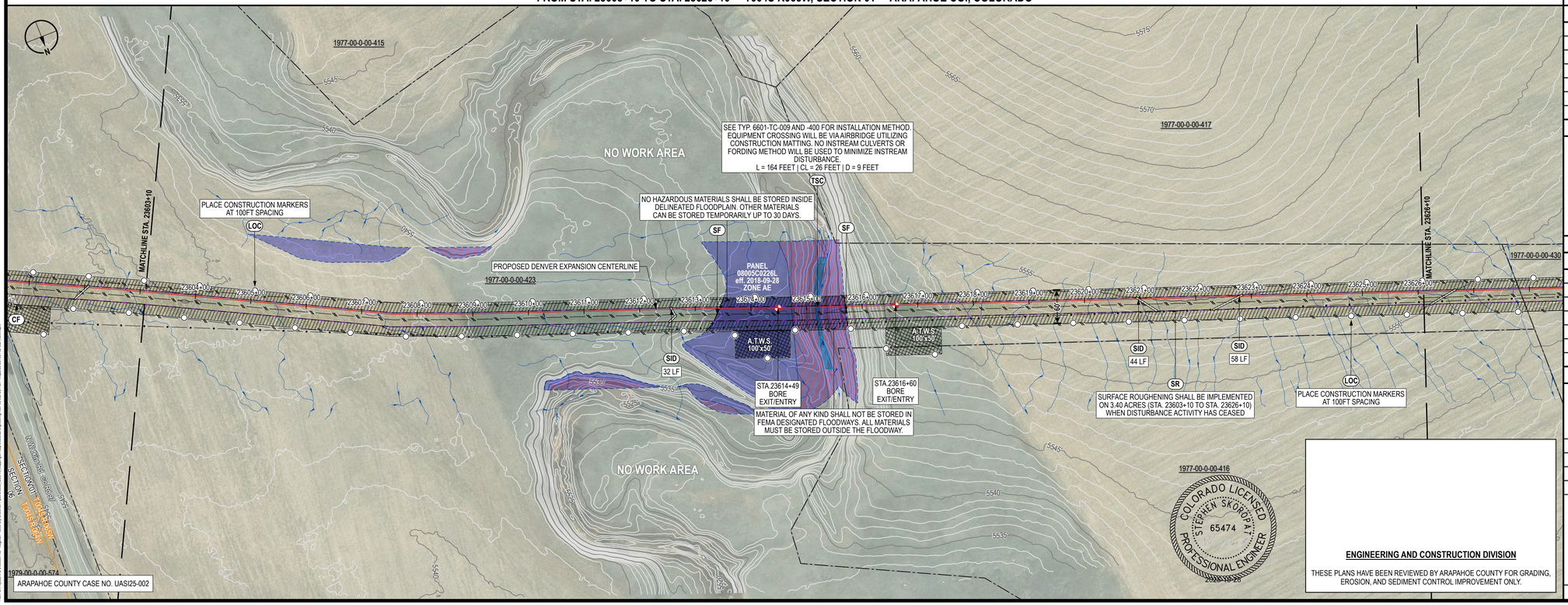

ARAPAHOE COUNTY CASE NO. UASI25-002

CONTROL MEASURE NOTES

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TRANSVERSE MERCATOR, NAD 1983 BLM ZONE 13N, U.S. FOOT

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COLORADO LICENSED
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ENGINEERING AND CONSTRUCTION DIVISION

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INITIAL/INTERIM GRADING, EROSION AND SEDIMENT CONTROL PLAN ARAPAHOE COUNTY, COLORADO

FROM STA. 23580+10 TO STA 23626+10

DWG. NUMBER: 1001-02-002-036-I

REVISION: 4

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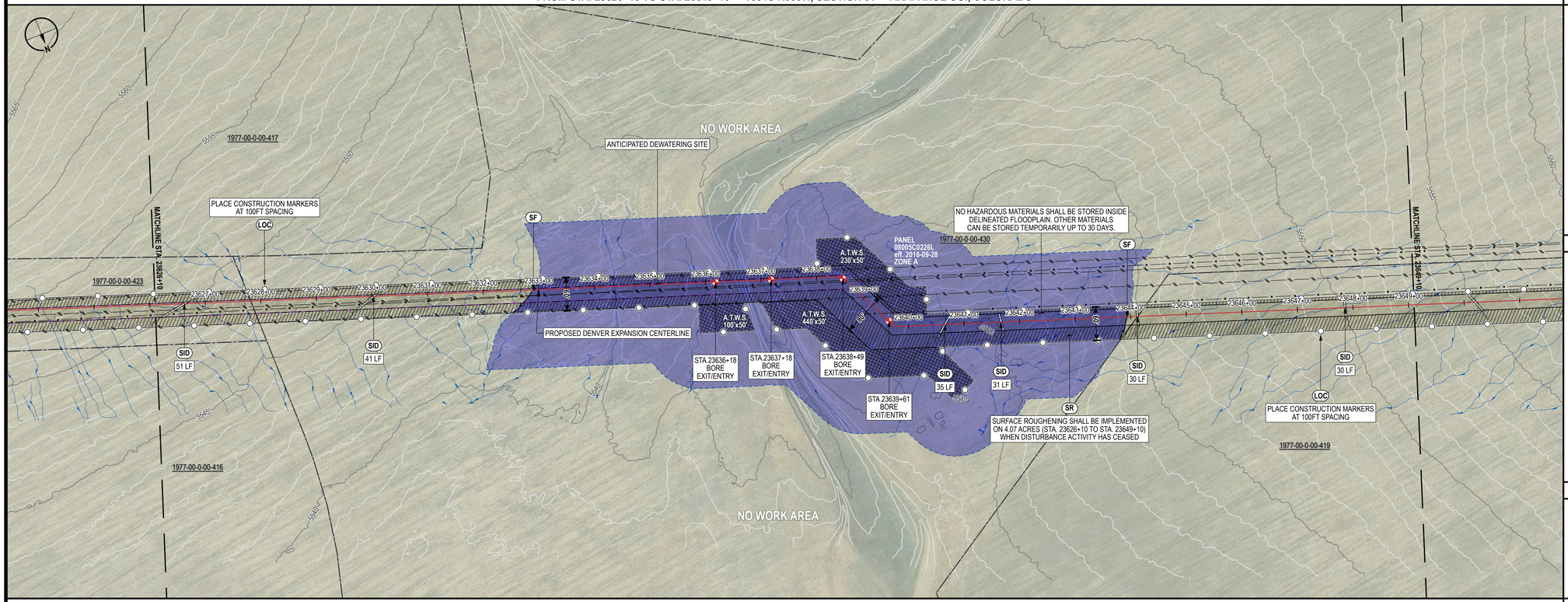

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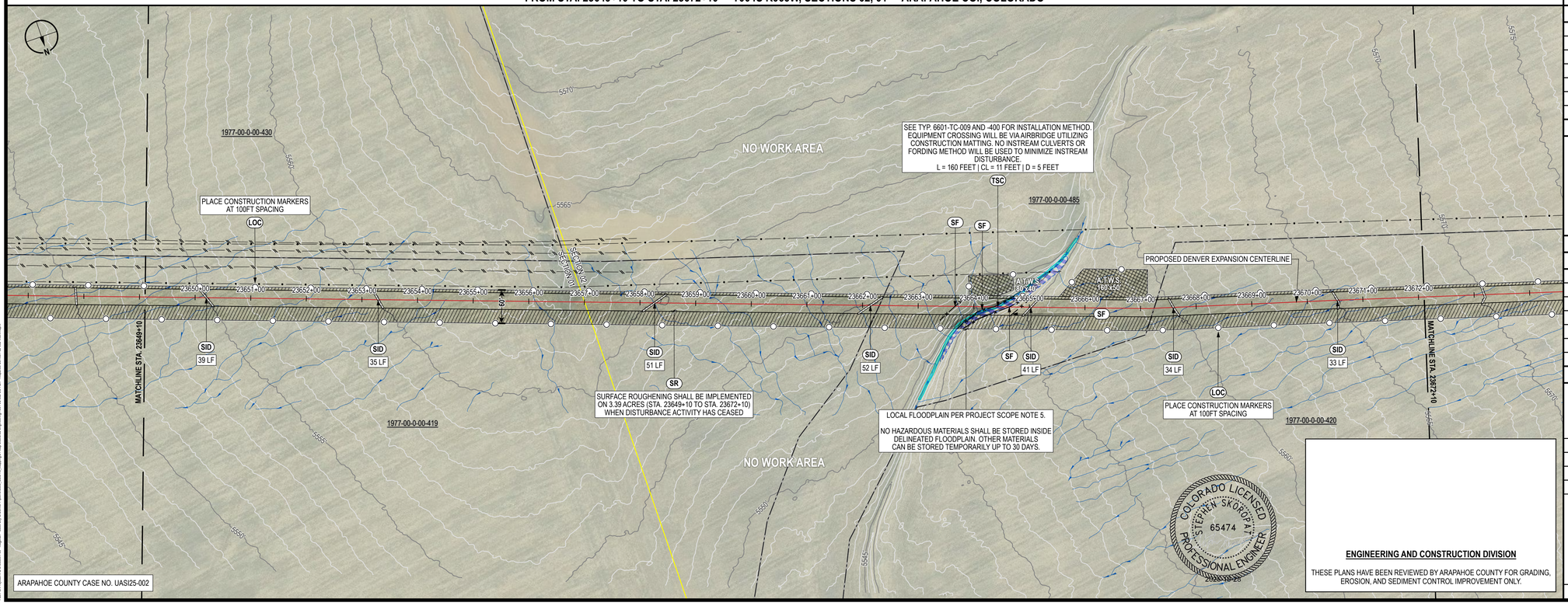

ARAPAHOE COUNTY CASE NO. UASI25-002

ENGINEERING AND CONSTRUCTION DIVISION

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COLORADO LICENSED STEPHEN SKOROPAT 65474 PROFESSIONAL ENGINEER

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INITIAL/INTERIM GRADING, EROSION AND SEDIMENT CONTROL PLAN ARAPAHOE COUNTY, COLORADO

FROM STA. 23626+10 TO STA 23672+10

DWG. NUMBER:	1001-02-002-037-I	REVISION:	4

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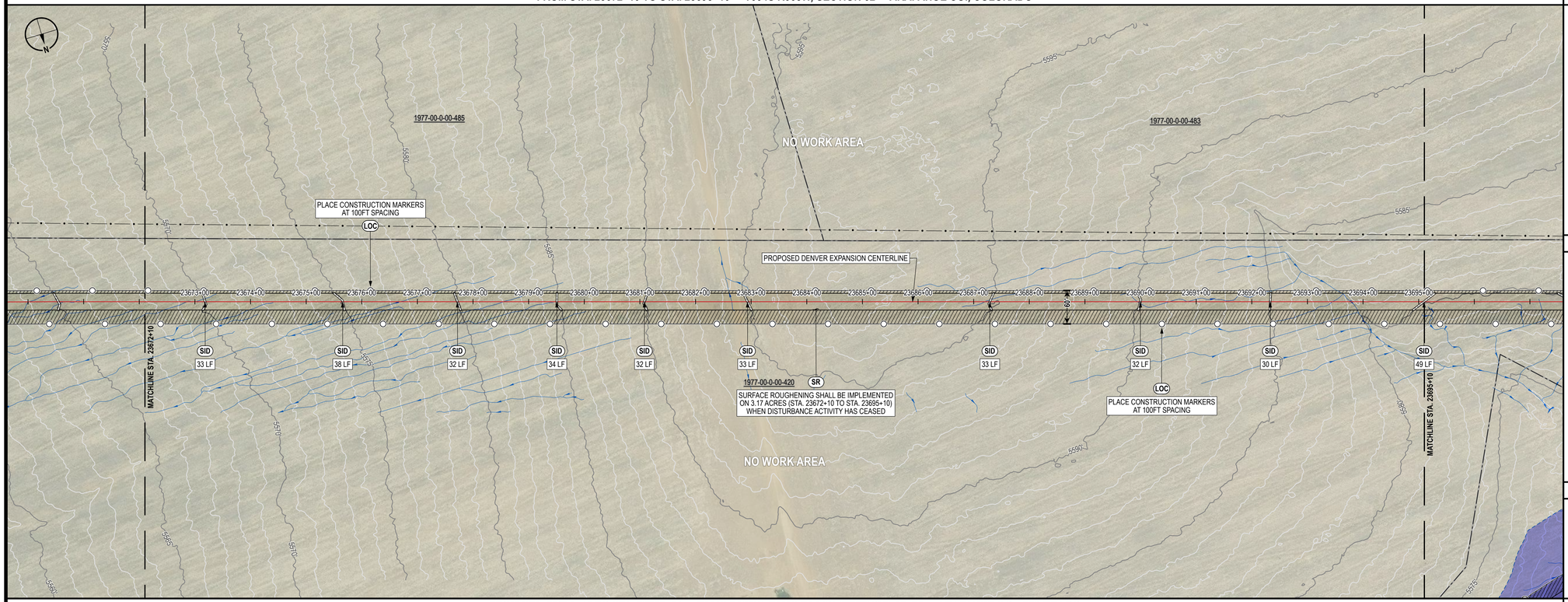

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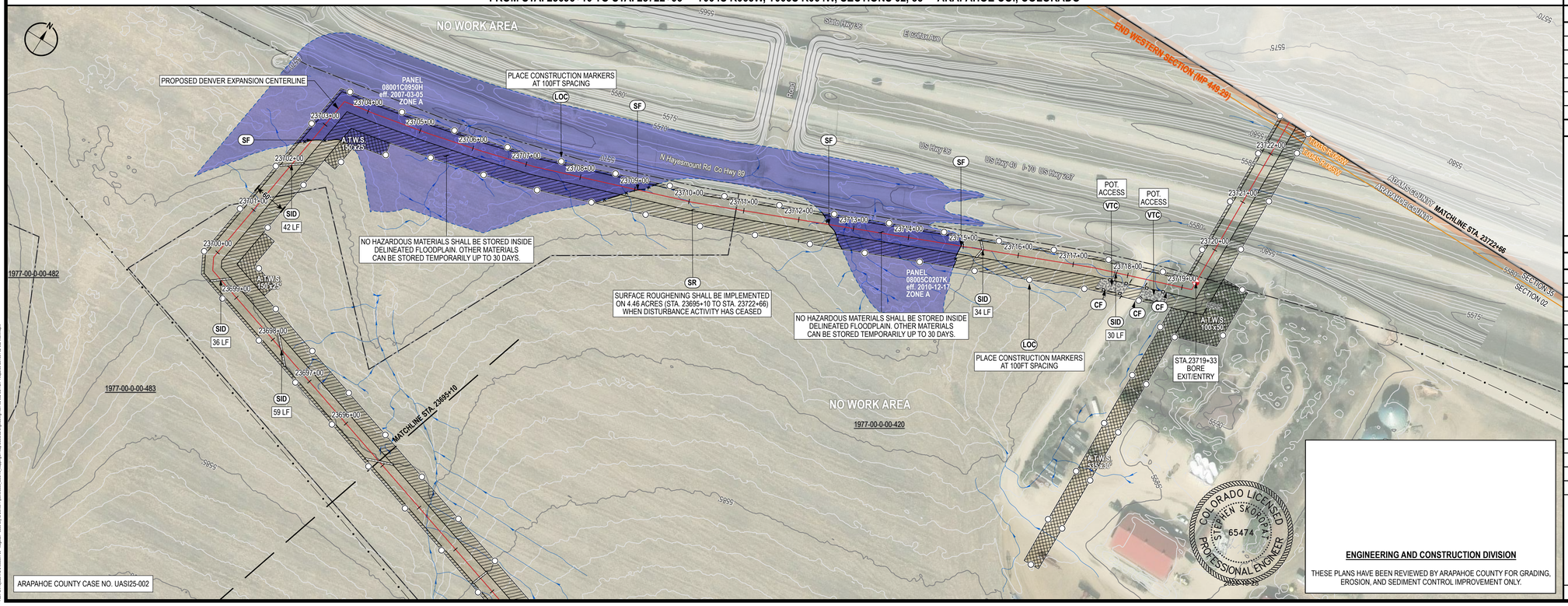

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COLORADO LICENSED STEPHEN SKOROPAT 65474 PROFESSIONAL ENGINEER

INITIAL/INTERIM GRADING, EROSION AND SEDIMENT CONTROL PLAN ARAPAHOE COUNTY, COLORADO

FROM STA. 23672+10 TO STA 23722+66

DWG. NUMBER: 1001-02-002-038-I REVISION: 4

SHEET 46 OF 95:	1001-02-002-INDEX-F E - INDEX SHEET EASTERN SECTION
SHEET 47 OF 95:	1001-02-002-001-F - FINAL GRADING, EROSION AND SEDIMENT CONTROL PLAN - STA. 21970+10 TO STA. 22016+10
SHEET 48 OF 95:	1001-02-002-002-F - FINAL GRADING, EROSION AND SEDIMENT CONTROL PLAN - STA. 22016+10 TO STA. 22062+10
SHEET 49 OF 95:	1001-02-002-003-F - FINAL GRADING, EROSION AND SEDIMENT CONTROL PLAN - STA. 22062+10 TO STA. 22108+10
SHEET 50 OF 95:	1001-02-002-004-F - FINAL GRADING, EROSION AND SEDIMENT CONTROL PLAN - STA. 22108+10 TO STA. 22154+10
SHEET 51 OF 95:	1001-02-002-005-F - FINAL GRADING, EROSION AND SEDIMENT CONTROL PLAN - STA. 22154+10 TO STA. 22200+10
SHEET 52 OF 95:	1001-02-002-006-F - FINAL GRADING, EROSION AND SEDIMENT CONTROL PLAN - STA. 22200+10 TO STA. 22246+10
SHEET 53 OF 95:	1001-02-002-007-F - FINAL GRADING, EROSION AND SEDIMENT CONTROL PLAN - STA. 22246+10 TO STA. 22292+10
SHEET 54 OF 95:	1001-02-002-008-F - FINAL GRADING, EROSION AND SEDIMENT CONTROL PLAN - STA. 22292+10 TO STA. 22338+10
SHEET 55 OF 95:	1001-02-002-009-F - FINAL GRADING, EROSION AND SEDIMENT CONTROL PLAN - STA. 22338+10 TO STA. 22384+10
SHEET 56 OF 95:	1001-02-002-010-F - FINAL GRADING, EROSION AND SEDIMENT CONTROL PLAN - STA. 22384+10 TO STA. 22430+10
SHEET 57 OF 95:	1001-02-002-011-F - FINAL GRADING, EROSION AND SEDIMENT CONTROL PLAN - STA. 22430+10 TO STA. 22476+10
SHEET 58 OF 95:	1001-02-002-012-F - FINAL GRADING, EROSION AND SEDIMENT CONTROL PLAN - STA. 22476+10 TO STA. 22522+10
SHEET 59 OF 95:	1001-02-002-013-F - FINAL GRADING, EROSION AND SEDIMENT CONTROL PLAN - STA. 22522+10 TO STA. 22568+10
SHEET 60 OF 95:	1001-02-002-014-F - FINAL GRADING, EROSION AND SEDIMENT CONTROL PLAN - STA. 22568+10 TO STA. 22614+10
SHEET 61 OF 95:	1001-02-002-015-F - FINAL GRADING, EROSION AND SEDIMENT CONTROL PLAN - STA. 22614+10 TO STA. 22660+10
SHEET 62 OF 95:	1001-02-002-016-F - FINAL GRADING, EROSION AND SEDIMENT CONTROL PLAN - STA. 22660+10 TO STA. 22706+10

2S 65W 2S 64W 2S 63W 2S 62W 2S 61W 2S 60W

3S 65W 3S 64W 3S 63W 3S 62W 3S 61W 3S 60W

ADAMS CO.

4S 65W 4S 64W 4S 63W 4S 62W 4S 61W 4S 60W

5S 65W 5S 64W 5S 63W 5S 62W 5S 61W 5S 60W

ARAPAHOE CO.

Eastern Section

1001-02-002-015-F 61 OF 95 (BOTTOM)
1001-02-002-014-F 60 OF 95 (BOTTOM)
1001-02-002-012-F 58 OF 95 (BOTTOM)
1001-02-002-016-F 62 OF 95 (TOP)
1001-02-002-011-F 57 OF 95 (BOTTOM)
1001-02-002-010-F 56 OF 95 (BOTTOM)
1001-02-002-008-F 54 OF 95 (BOTTOM)
1001-02-002-015-F 61 OF 95 (TOP)
1001-02-002-014-F 60 OF 95 (TOP)
1001-02-002-009-F 55 OF 95 (BOTTOM)
1001-02-002-013-F 59 OF 95 (BOTTOM)
1001-02-002-012-F 58 OF 95 (TOP)
1001-02-002-007-F 53 OF 95 (BOTTOM)
1001-02-002-006-F 52 OF 95 (BOTTOM)
1001-02-002-005-F 51 OF 95 (BOTTOM)
1001-02-002-013-F 59 OF 95 (TOP)
1001-02-002-011-F 57 OF 95 (TOP)
1001-02-002-010-F 56 OF 95 (TOP)
1001-02-002-004-F 50 OF 95 (BOTTOM)
1001-02-002-009-F 55 OF 95 (TOP)
1001-02-002-003-F 49 OF 95 (BOTTOM)
1001-02-002-002-F 48 OF 95 (BOTTOM)
1001-02-002-008-F 54 OF 95 (TOP)
1001-02-002-007-F 53 OF 95 (TOP)
1001-02-002-001-F 47 OF 95 (BOTTOM)
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1001-02-002-005-F 51 OF 95 (TOP)
1001-02-002-004-F 50 OF 95 (TOP)
1001-02-002-003-F 49 OF 95 (TOP)
1001-02-002-002-F 48 OF 95 (TOP)
1001-02-002-001-F 47 OF 95 (TOP)

6S 65W 6S 64W 6S 63W 6S 62W 6S 61W 6S 59W

ELBERT CO.

ARAPAHOE COUNTY CASE NO. UASI25-002

CONTROL MEASURE NOTES

- (VTC) VEHICLE TRACKING CONTROL
- (SR) SURFACE ROUGHENING
- (TSC) TEMPORARY STREAM CROSSING
- (SF) SILT FENCE
- (CF) CONSTRUCTION FENCE
- (ECB) EROSION CONTROL BLANKET INSTALLATION (CURLEX EXCELSIOR)
- (SID) SLOPE INTERCEPT DITCH
- (CM) CONSTRUCTION MARKER
- (SM) SEED AND MULCH
- (LOC) LIMITS OF CONSTRUCTION (SEE PROPOSED EASEMENT BOUNDARY / TEMPORARY WORKSPACE BOUNDARY BELOW)

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(1) ENVIRONMENTAL EXCLUSION AREAS WILL BE MARKED BY EXCLUSION FENCING AND SIGNAGE.

0 5,000 10,000 20,000 US FEET

TRANSVERSE MERCATOR, NAD 1983 BLM ZONE 13N, U.S. FOOT

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DRAWN BY:	PD	DATE:	10/24/25
CHECKED BY:	DS	SCALE:	1 : 75,000
APPROVED BY:	SS	SHEET:	46 OF 95

ENGINEERING AND CONSTRUCTION DIVISION

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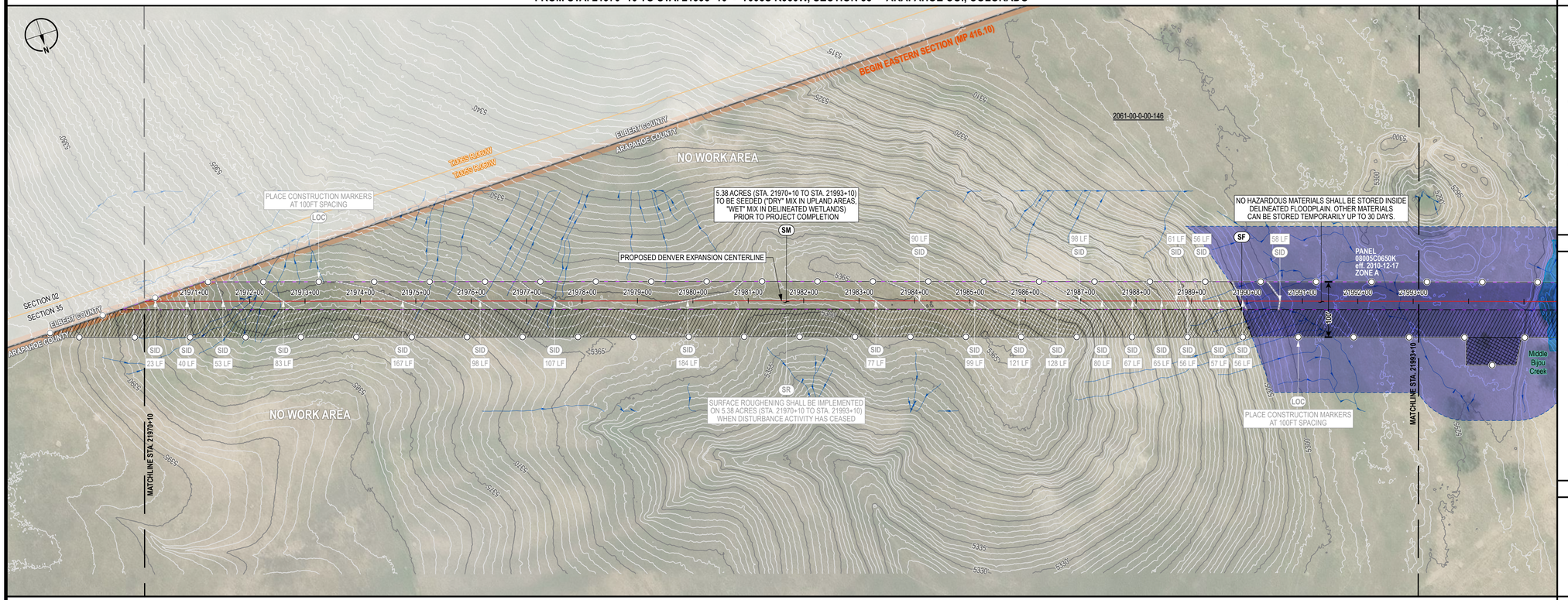
FINAL GRADING, EROSION AND SEDIMENT CONTROL PLAN ARAPAHOE COUNTY, COLORADO

INDEX SHEET - EASTERN SECTION

DWG. NUMBER:	1001-02-002-INDEX-F E	REVISION:	2

Path: G:\Projects\ONL-0000084-00 - Magellan - Scott City to Denver Pipeline\0800_GEO\14_Mapping\01 Maps Standard\Engineering\1001-02-002 EC Rev - Alignment Cut\1001-02-002-final.aprx

FROM STA. 21970+10 TO STA. 21993+10 - T005S R060W, SECTION 35 - ARAPAHOE CO., COLORADO



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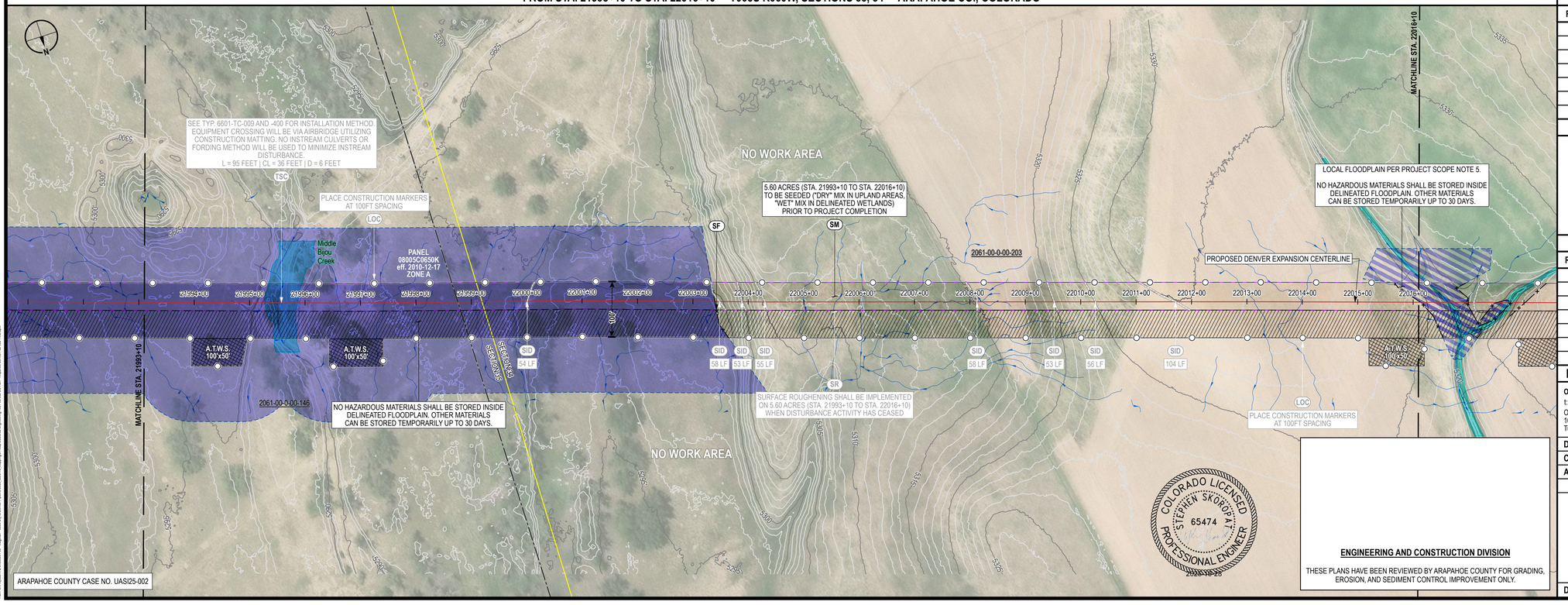

ARAPAHOE COUNTY CASE NO. UASI25-002

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0 100 200 400 US FEET

TRANSVERSE MERCATOR, NAD 1983 BLM ZONE 13N, U.S. FOOT

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COLORADO LICENSED
STEPHEN SKOROJAT
65474
PROFESSIONAL ENGINEER
2025-10-28

ENGINEERING AND CONSTRUCTION DIVISION

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FINAL GRADING, EROSION AND SEDIMENT CONTROL PLAN ARAPAHOE COUNTY, COLORADO

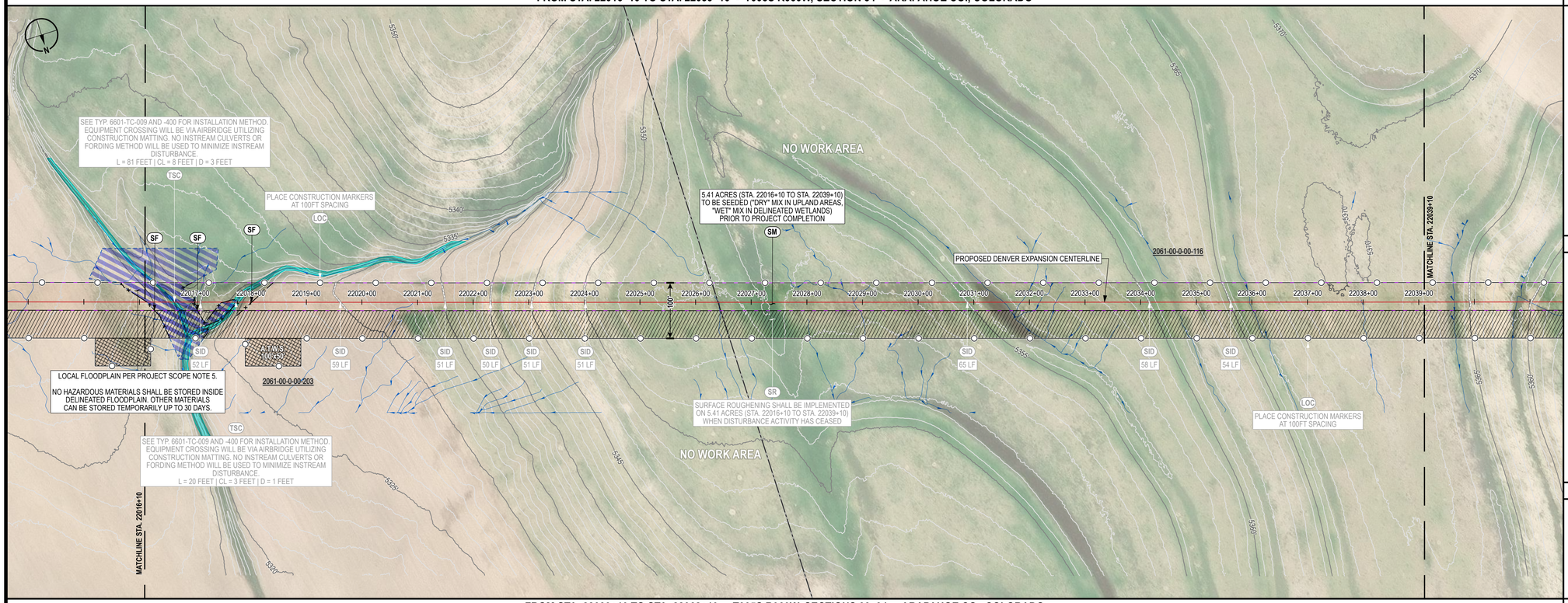
FROM STA. 21970+10 TO STA 22016+10

DWG. NUMBER: 1001-02-002-001-F

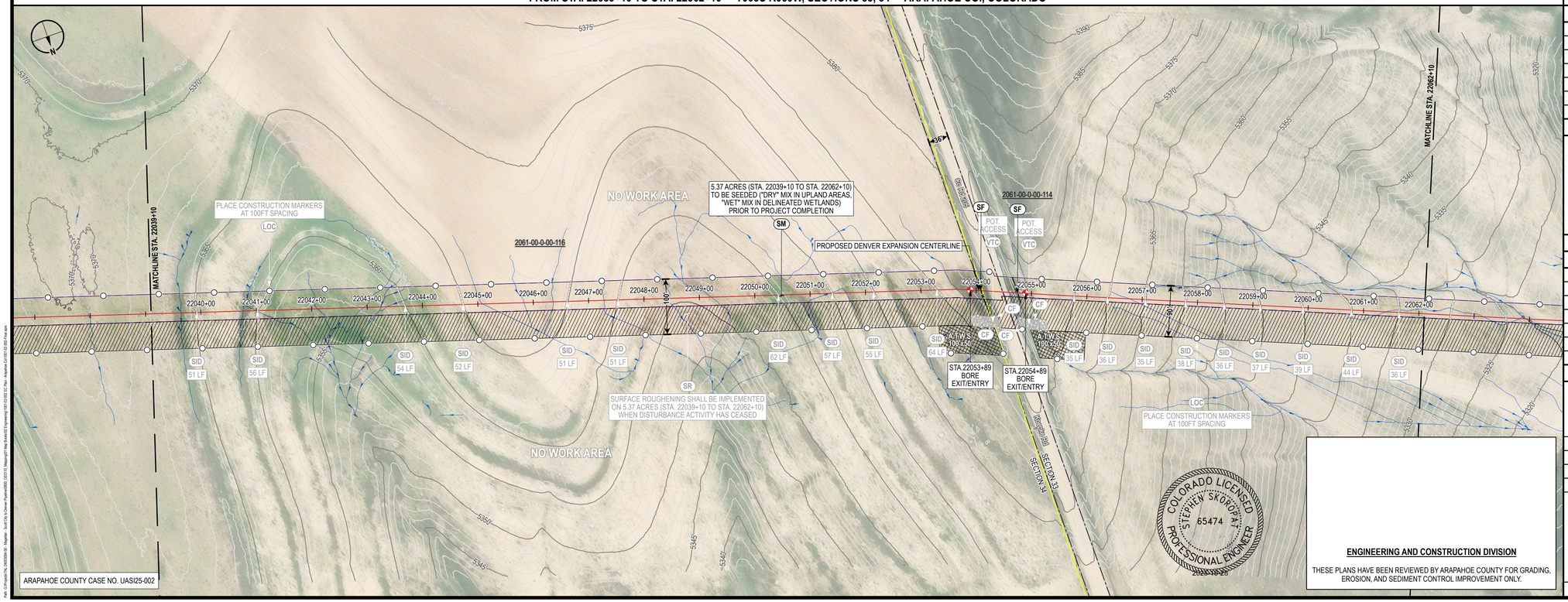
REVISION: 2

Xref: G:\Projects\70s_ONEOK\04-GIS - Mapfiles - Shelf Dwg to Denver Pipeline\MXD_GEOFAS_Mapping\01 Map Books\02 Engineering\1001-02-002-01 Plan - Arapahoe Co\1001-02-002-01.mxd

FROM STA. 22016+10 TO STA. 22039+10 - T005S R060W, SECTION 34 - ARAPAHOE CO., COLORADO



FROM STA. 22039+10 TO STA. 22062+10 - T005S R060W, SECTIONS 33, 34 - ARAPAHOE CO., COLORADO



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0 100 200 400 US FEET

TRANSVERSE MERCATOR, NAD 1983 BLM ZONE 13N, U.S. FOOT

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APPROVED BY:	SS	SHEET:	48 OF 95

FINAL GRADING, EROSION AND SEDIMENT CONTROL PLAN ARAPAHOE COUNTY, COLORADO

FROM STA. 22016+10 TO STA 22062+10

DWG. NUMBER:	1001-02-002-002-F	REVISION:	2

ENGINEERING AND CONSTRUCTION DIVISION

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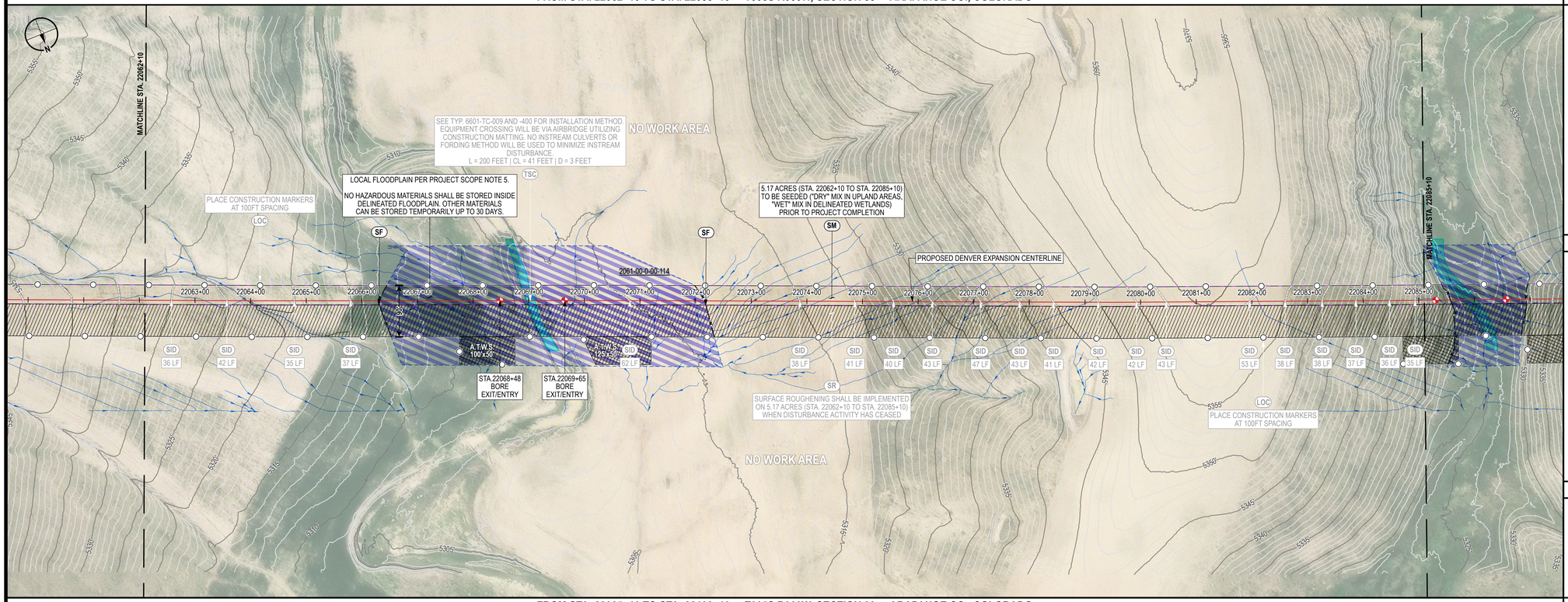
COLORADO LICENSED
STEPHEN SKOROPAT
65474
PROFESSIONAL ENGINEER
2025-10-28

Path: G:\Projects\ONEOK_1001\0004-00 - Magellan - Scott City to Denver Pipeline\0002_GEO\16_Mapping\01 Map Books\02 Engineering\1001-02-002-002-F.mxd - Arapahoe Co\1001-02-002-F.mxd

FROM STA. 22062+10 TO STA. 22085+10 - T005S R060W, SECTION 33 - ARAPAHOE CO., COLORADO



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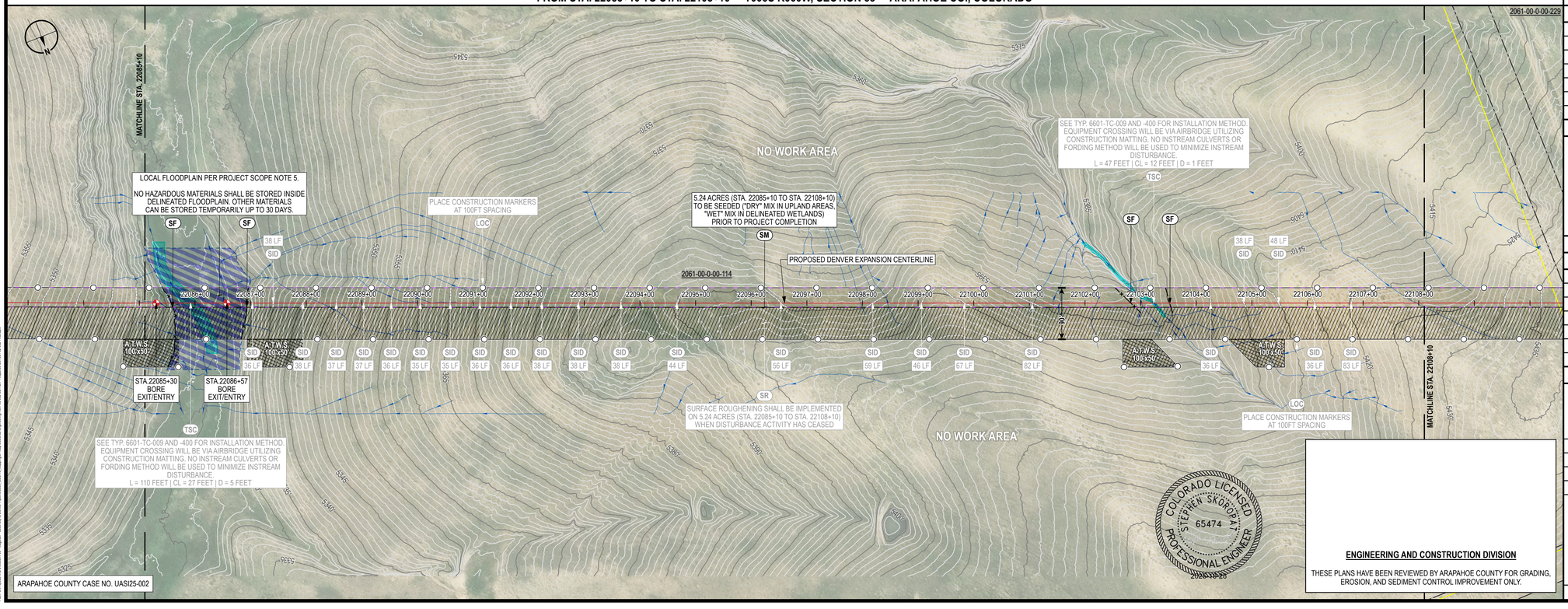

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0 100 200 400 US FEET

TRANSVERSE MERCATOR, NAD 1983 BLM ZONE 13N, U.S. FOOT

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FINAL GRADING, EROSION AND SEDIMENT CONTROL PLAN ARAPAHOE COUNTY, COLORADO

FROM STA. 22062+10 TO STA 22108+10

DWG. NUMBER:	1001-02-002-003-F	REVISION:	2

COLORADO LICENSED
STEPHEN SKOROPAT
65474
PROFESSIONAL ENGINEER
2025.10.28

ENGINEERING AND CONSTRUCTION DIVISION

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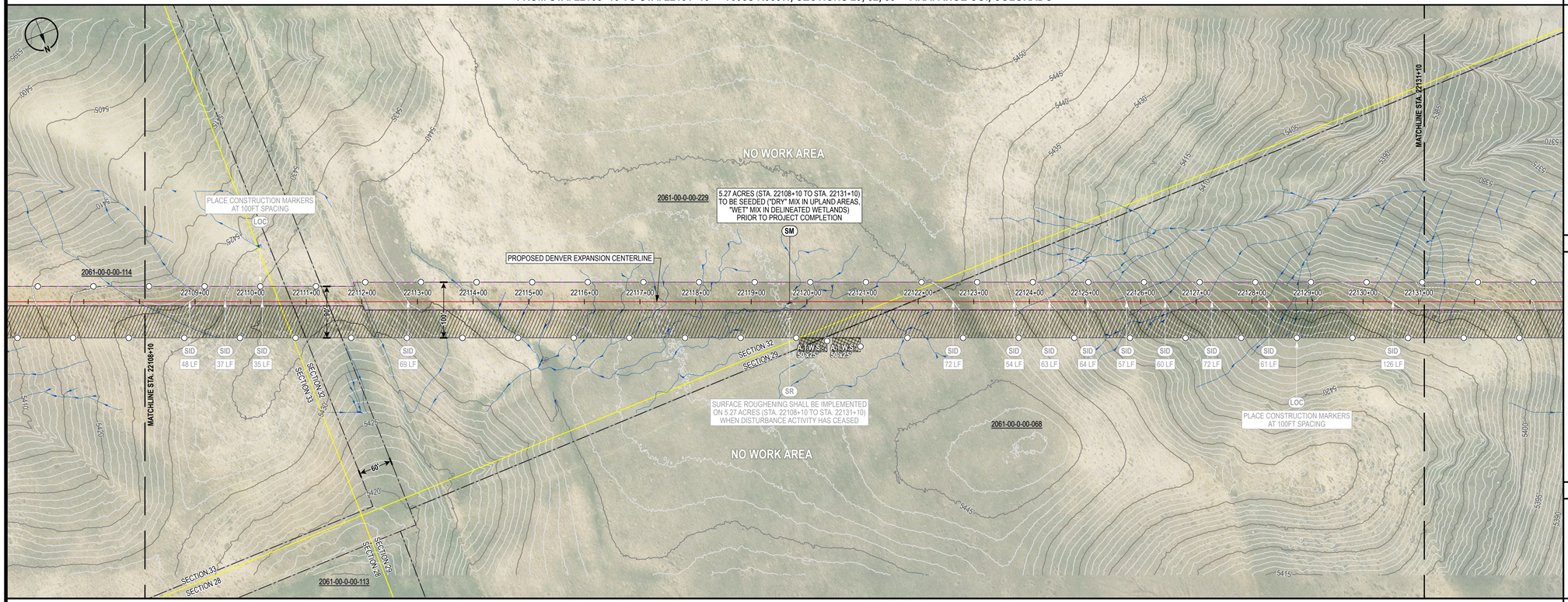

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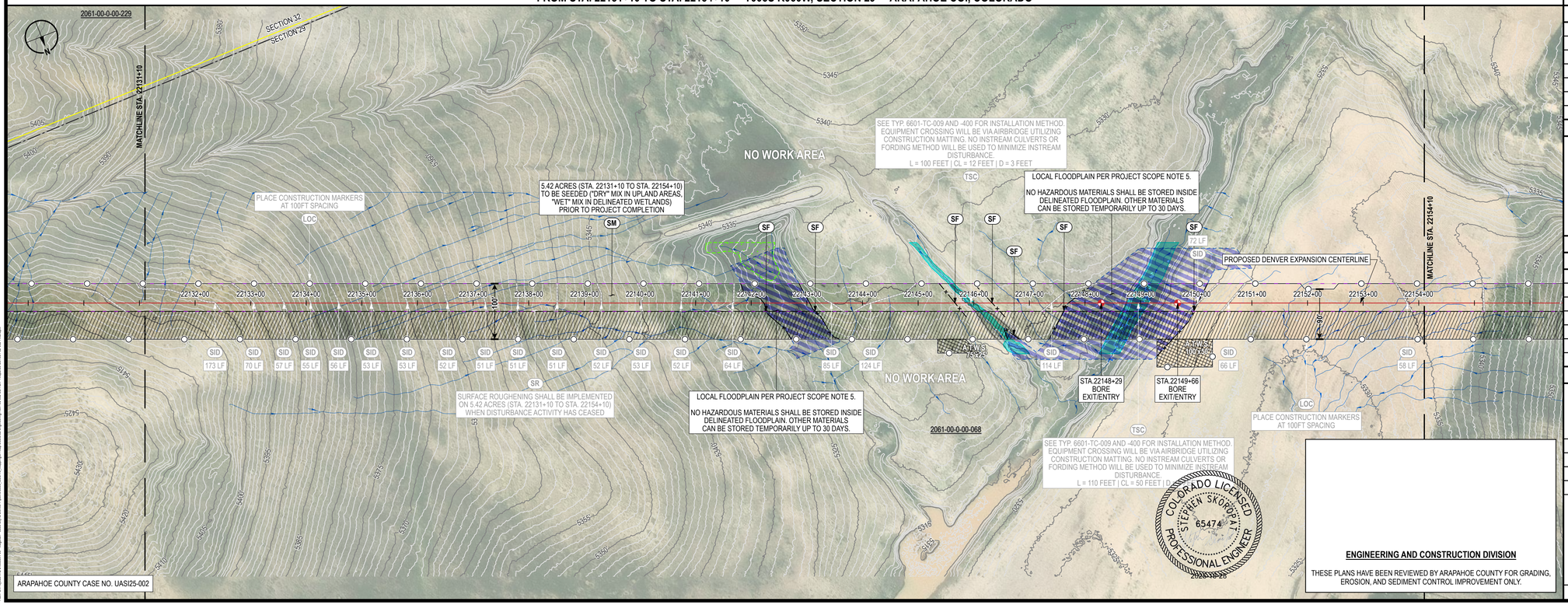

ARAPAHOE COUNTY CASE NO. UASI25-002

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COLORADO LICENSED STEPHEN SKOROPAT 65474 PROFESSIONAL ENGINEER 2025-10-28

ENGINEERING AND CONSTRUCTION DIVISION

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FINAL GRADING, EROSION AND SEDIMENT CONTROL PLAN ARAPAHOE COUNTY, COLORADO

FROM STA. 22108+10 TO STA 22154+10

DWG. NUMBER:	1001-02-002-004-F	REVISION:	2

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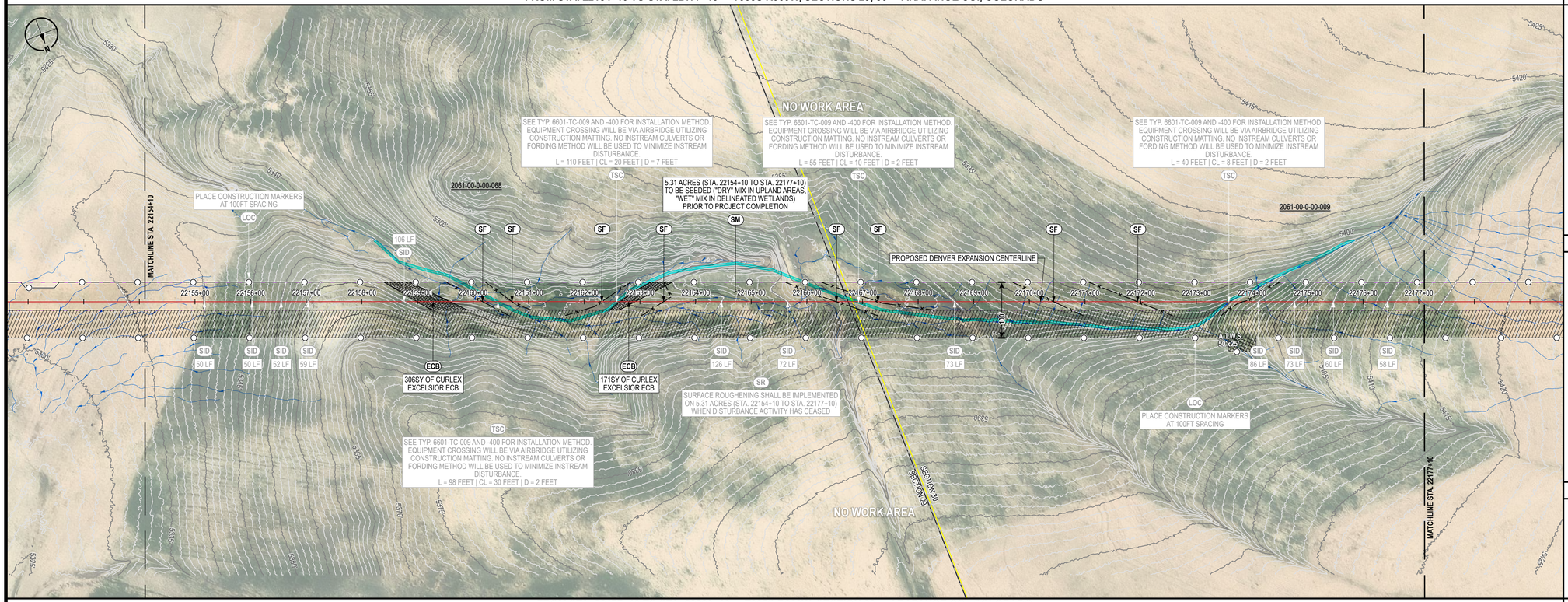
FROM STA. 22154+10 TO STA. 22177+10 - T005S R060W, SECTIONS 29, 30 - ARAPAHOE CO., COLORADO



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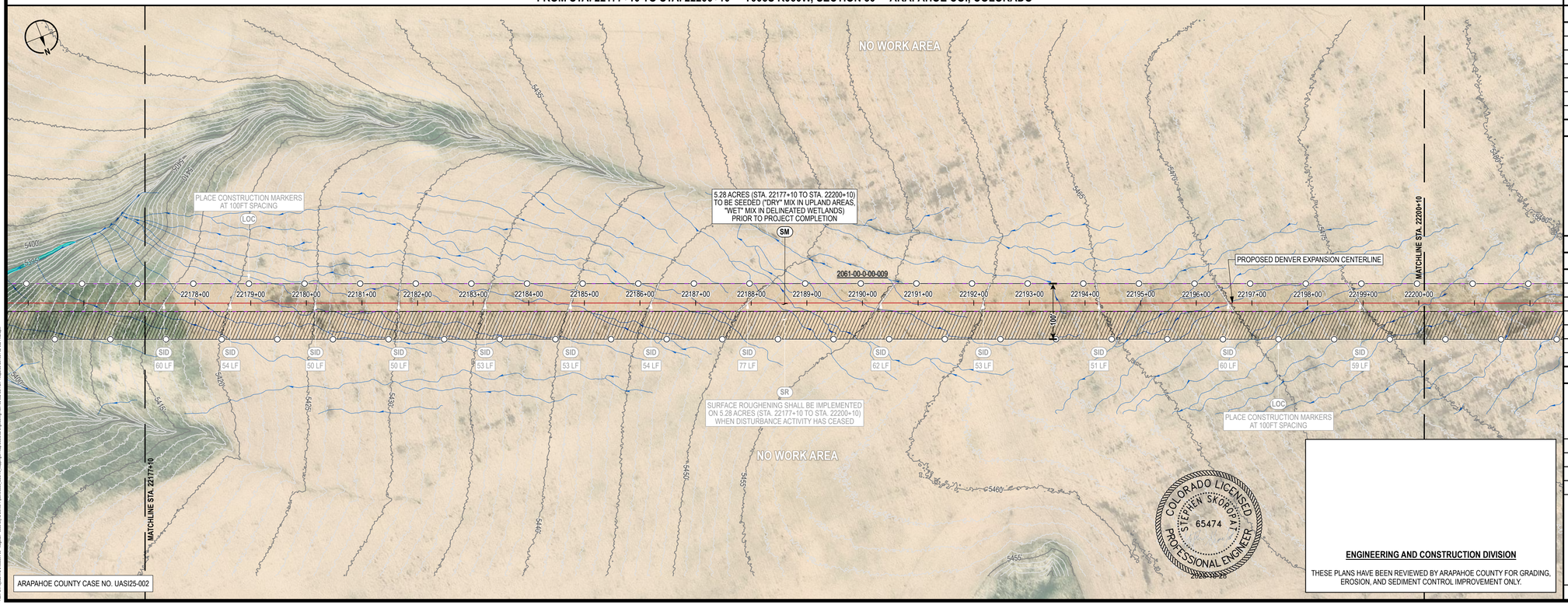

CONTROL MEASURE NOTES

- (VTC) VEHICLE TRACKING CONTROL
- (SR) SURFACE ROUGHENING
- (TSC) TEMPORARY STREAM CROSSING
- (SF) SILT FENCE
- (CF) CONSTRUCTION FENCE
- (ECB) EROSION CONTROL BLANKET INSTALLATION (CURLEX EXCELSIOR)
- (SID) SLOPE INTERCEPT DITCH
- (CM) CONSTRUCTION MARKER
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0 100 200 400 US FEET

TRANSVERSE MERCATOR, NAD 1983 BLM ZONE 13N, U.S. FOOT

BILL OF MATERIALS

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Houston, TX 77041, USA

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CHECKED BY:	DS	SCALE:	1" = 100' (PRINTED AT 24"x36")
APPROVED BY:	SS	SHEET:	51 OF 95

COLORADO LICENSED
STEPHEN SKOROPAT
65474
PROFESSIONAL ENGINEER
2025-10-28

ENGINEERING AND CONSTRUCTION DIVISION

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FINAL GRADING, EROSION AND SEDIMENT CONTROL PLAN ARAPAHOE COUNTY, COLORADO

FROM STA. 22154+10 TO STA 22200+10

DWG. NUMBER: 1001-02-002-005-F | REVISION: 2

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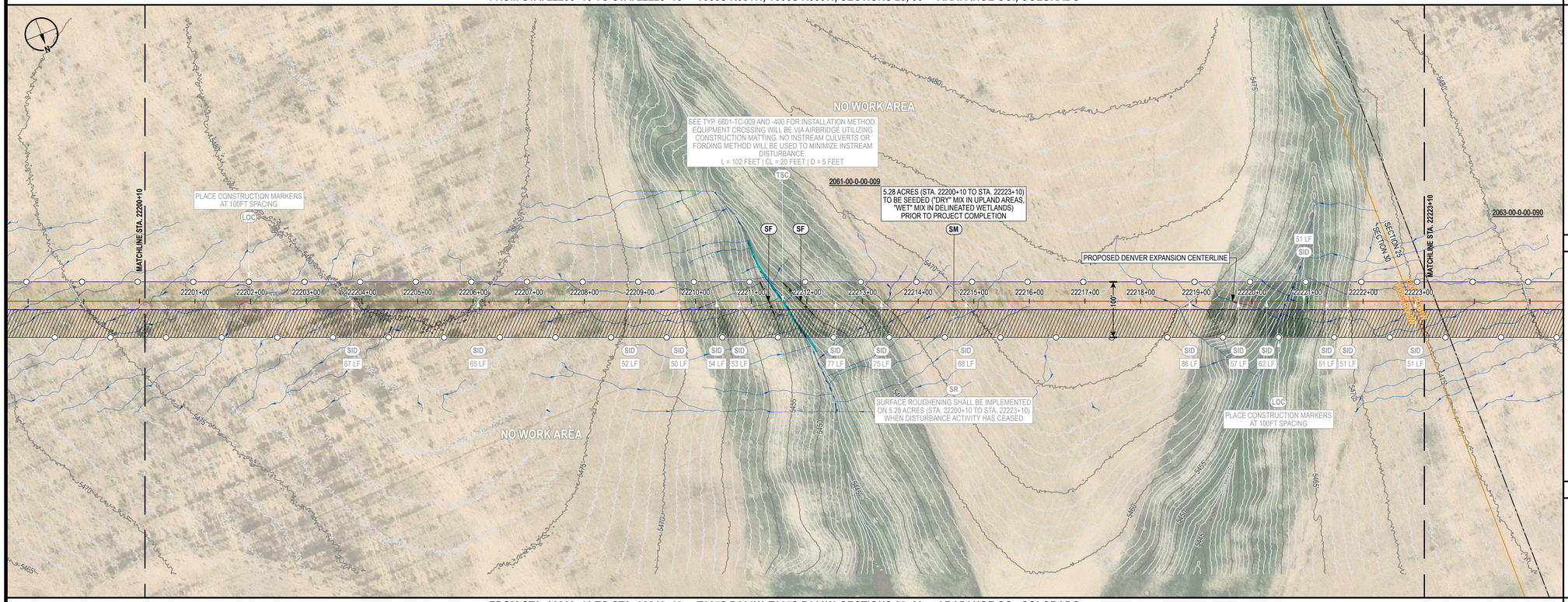
FROM STA. 22200+10 TO STA. 22223+10 - T005S R061W, T005S R060W, SECTIONS 25, 30 - ARAPAHOE CO., COLORADO



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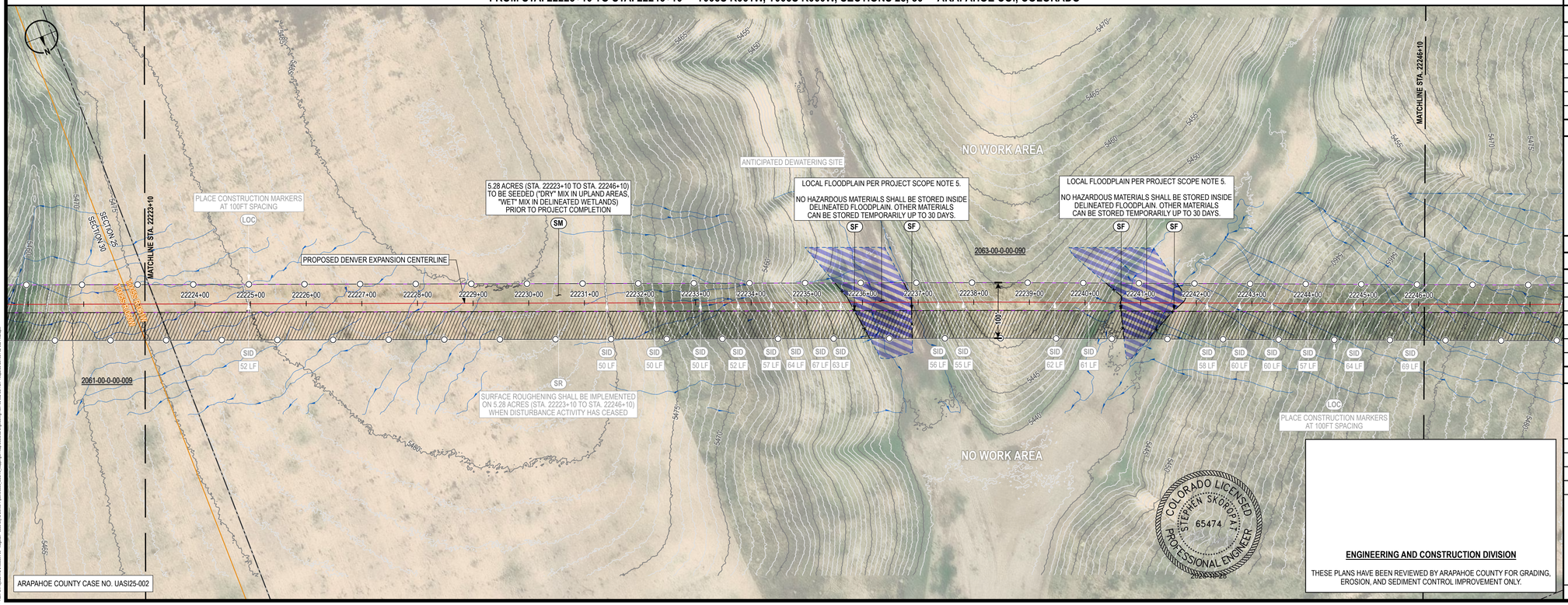

ARAPAHOE COUNTY CASE NO. UASI25-002

CONTROL MEASURE NOTES

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- (TSC) TEMPORARY STREAM CROSSING
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0 100 200 400 US FEET

TRANSVERSE MERCATOR, NAD 1983 BLM ZONE 13N, U.S. FOOT

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COLORADO LICENSED
STEPHEN SKOROJ AT
65474
PROFESSIONAL ENGINEER
2025.10.28

ENGINEERING AND CONSTRUCTION DIVISION

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FINAL GRADING, EROSION AND SEDIMENT CONTROL PLAN ARAPAHOE COUNTY, COLORADO

FROM STA. 22200+10 TO STA 22246+10

DWG. NUMBER: 1001-02-002-006-F REVISION: 2

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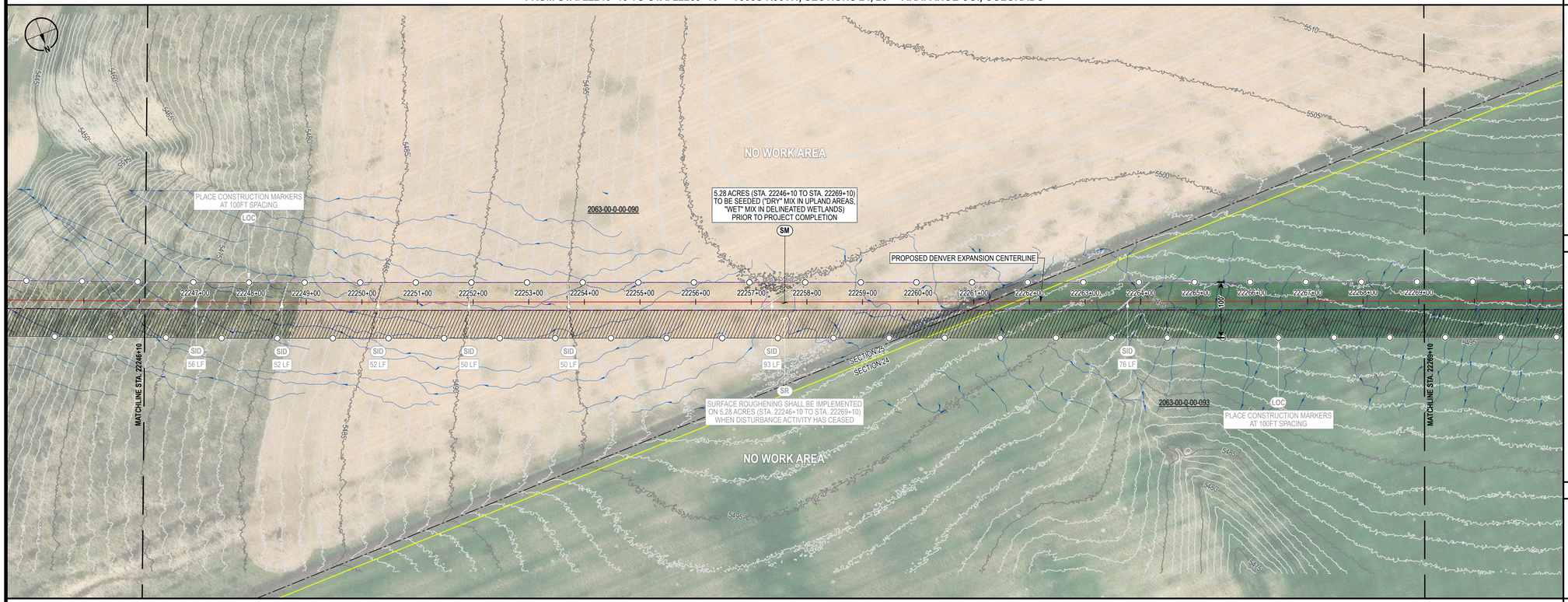

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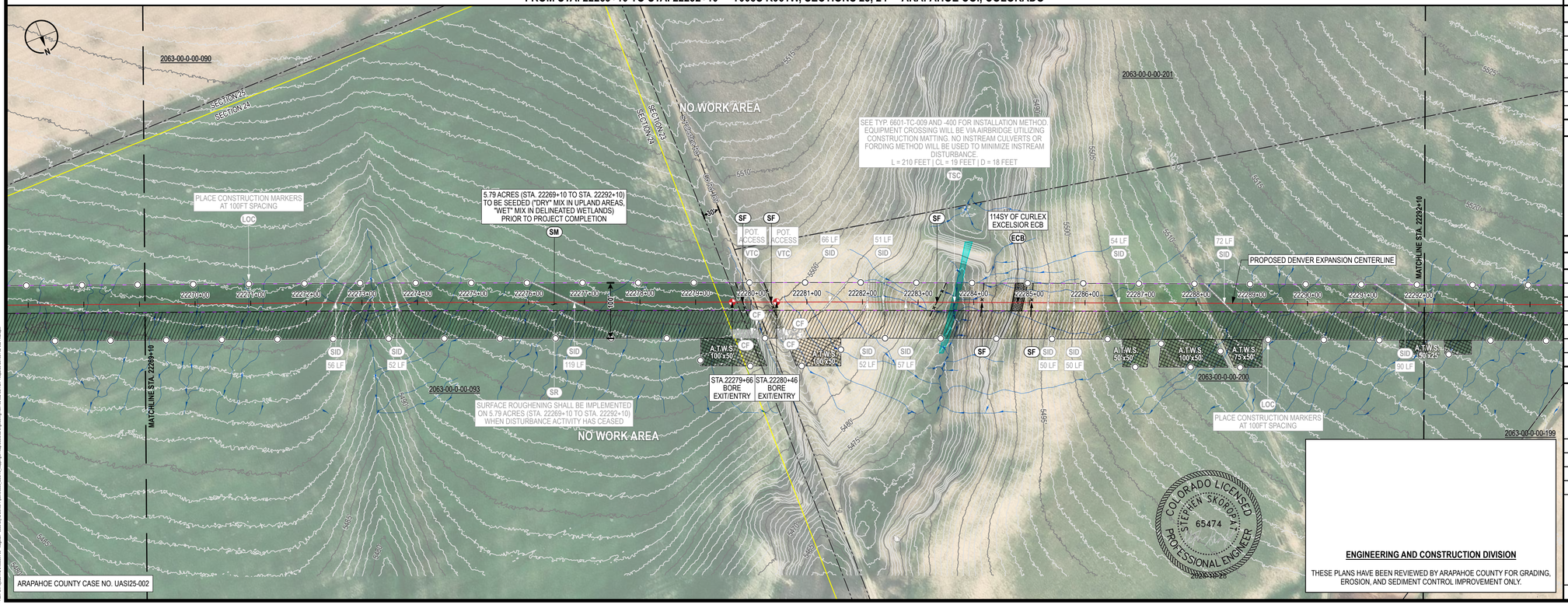

CONTROL MEASURE NOTES

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0 100 200 400 US FEET

TRANSVERSE MERCATOR, NAD 1983 BLM ZONE 13N, U.S. FOOT

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COLORADO LICENSED STEPHEN SKOROPAT 65474 PROFESSIONAL ENGINEER 2025.10.28

ENGINEERING AND CONSTRUCTION DIVISION

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FROM STA. 22246+10 TO STA 22292+10

DWG. NUMBER: 1001-02-002-007-F REVISION: 2

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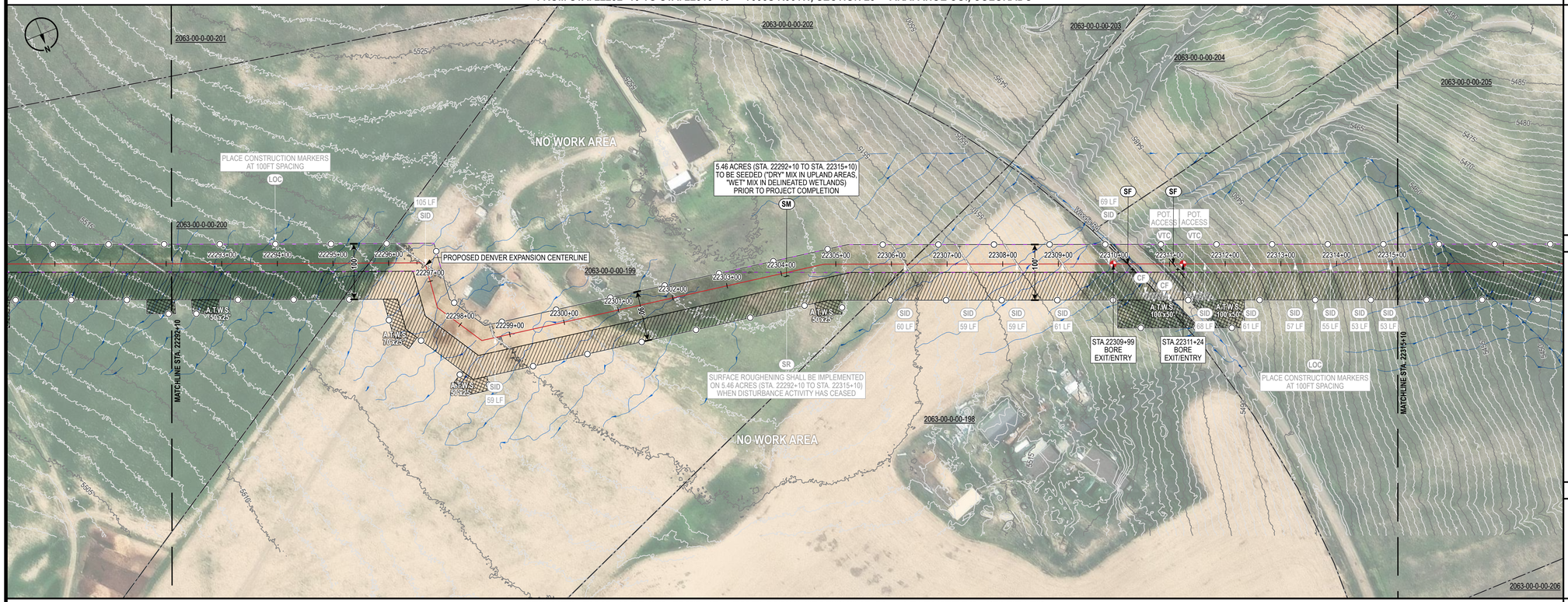

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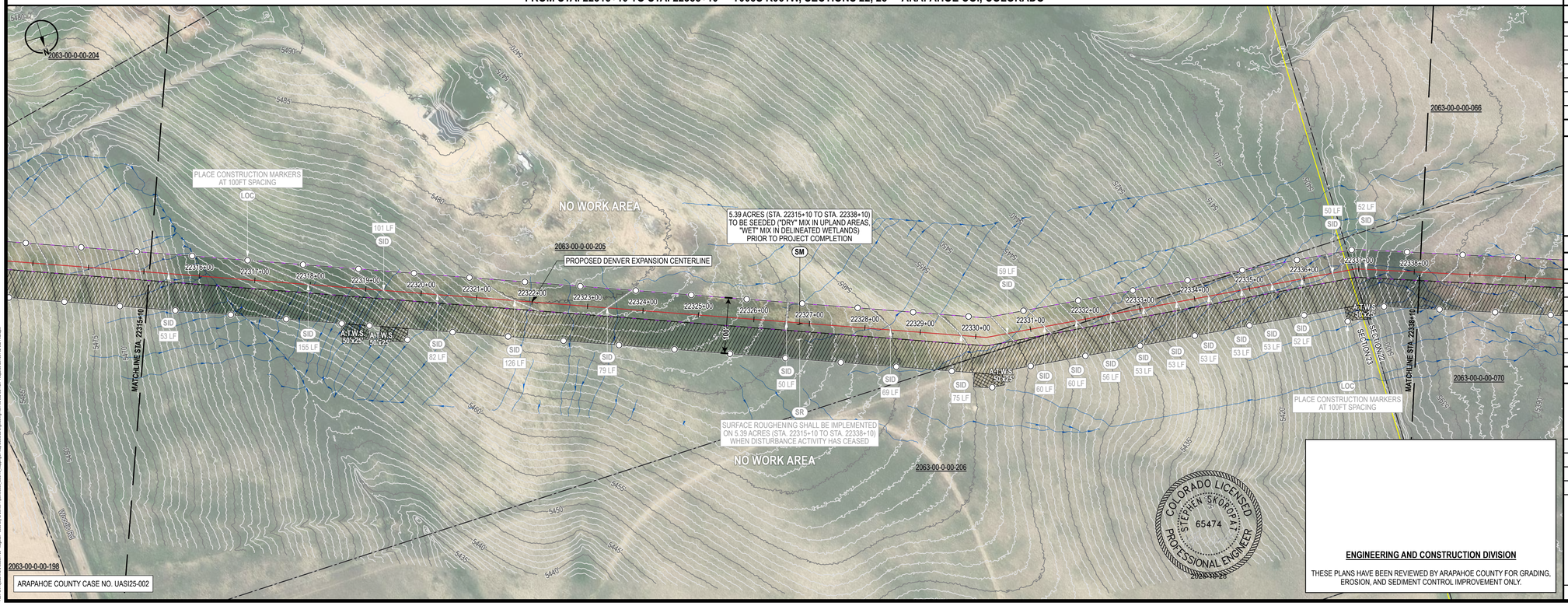

ARAPAHOE COUNTY CASE NO. UASI25-002

CONTROL MEASURE NOTES

- (VTC) VEHICLE TRACKING CONTROL
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TRANSVERSE MERCATOR, NAD 1983 BLM ZONE 13N, U.S. FOOT

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COLORADO LICENSED STEPHEN SKOROPAT 65474 PROFESSIONAL ENGINEER 2025-10-28

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FROM STA. 22292+10 TO STA 22338+10

DWG. NUMBER: 1001-02-002-008-F

REVISION: 2

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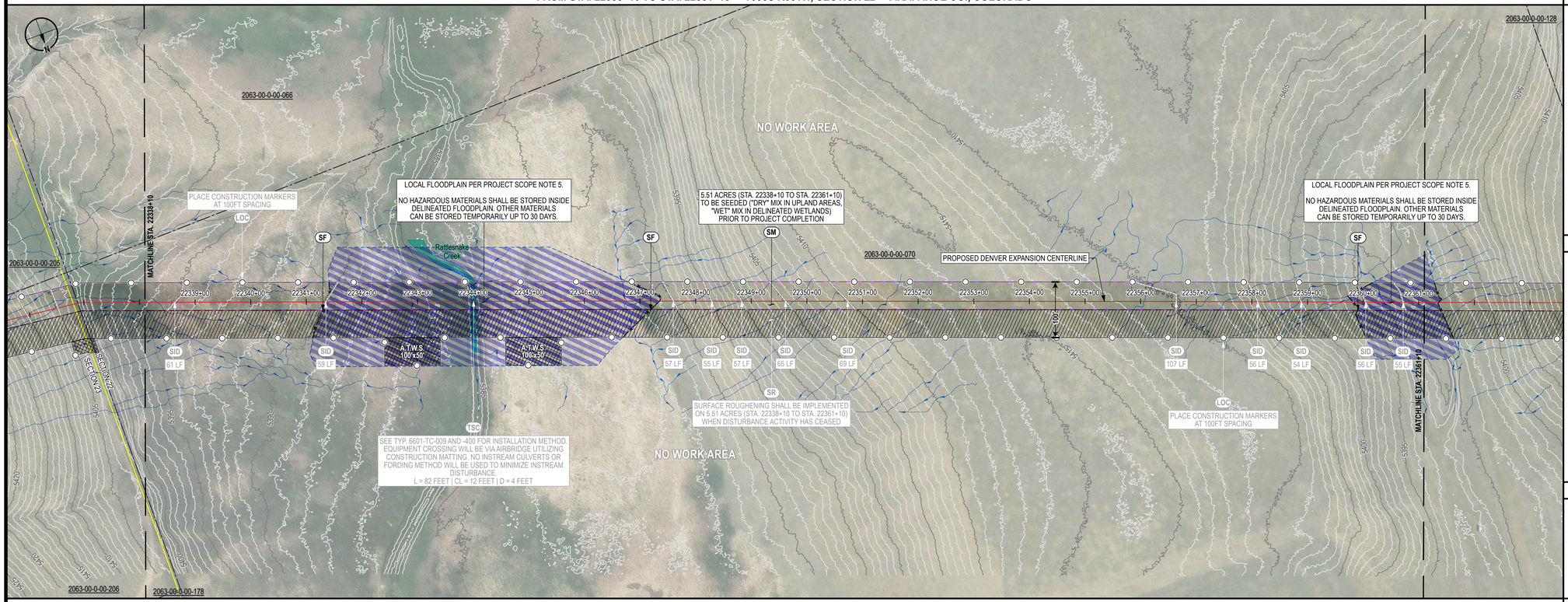

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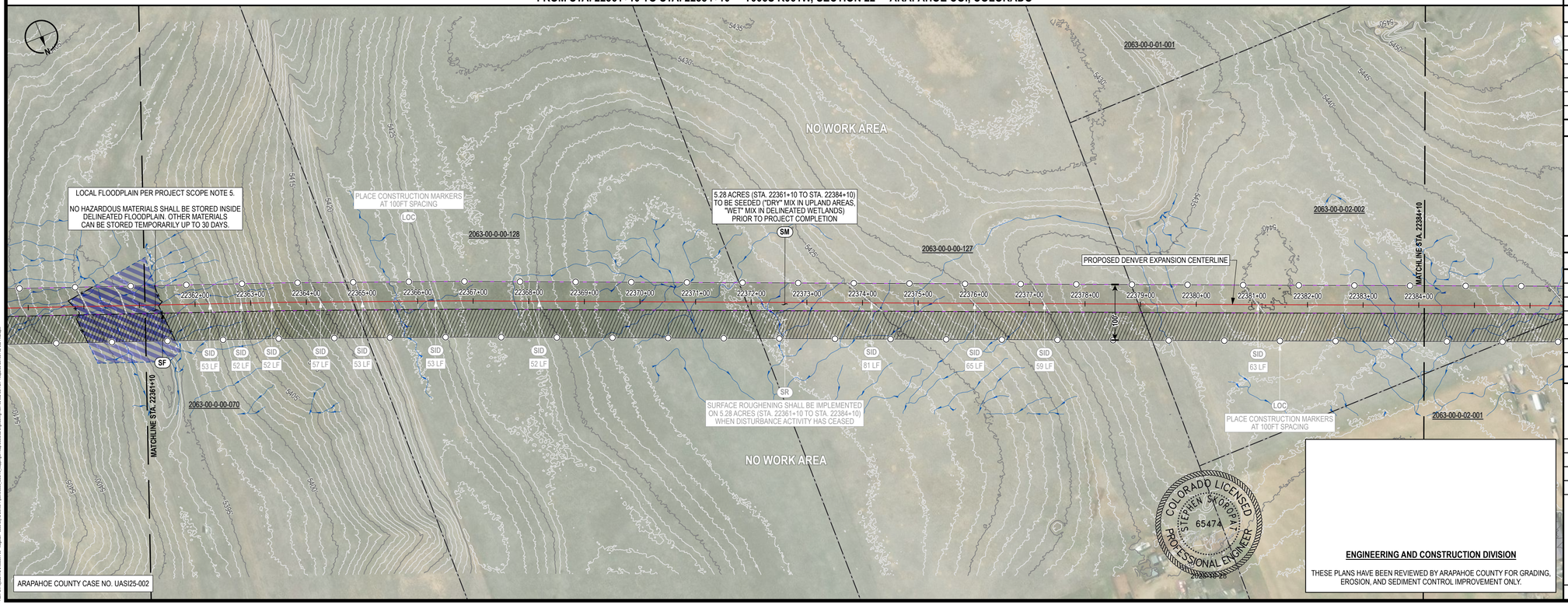

ARAPAHOE COUNTY CASE NO. UASI25-002

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FINAL GRADING, EROSION AND SEDIMENT CONTROL PLAN ARAPAHOE COUNTY, COLORADO

FROM STA. 22338+10 TO STA 22384+10

DWG. NUMBER:	1001-02-002-009-F	REVISION:	2

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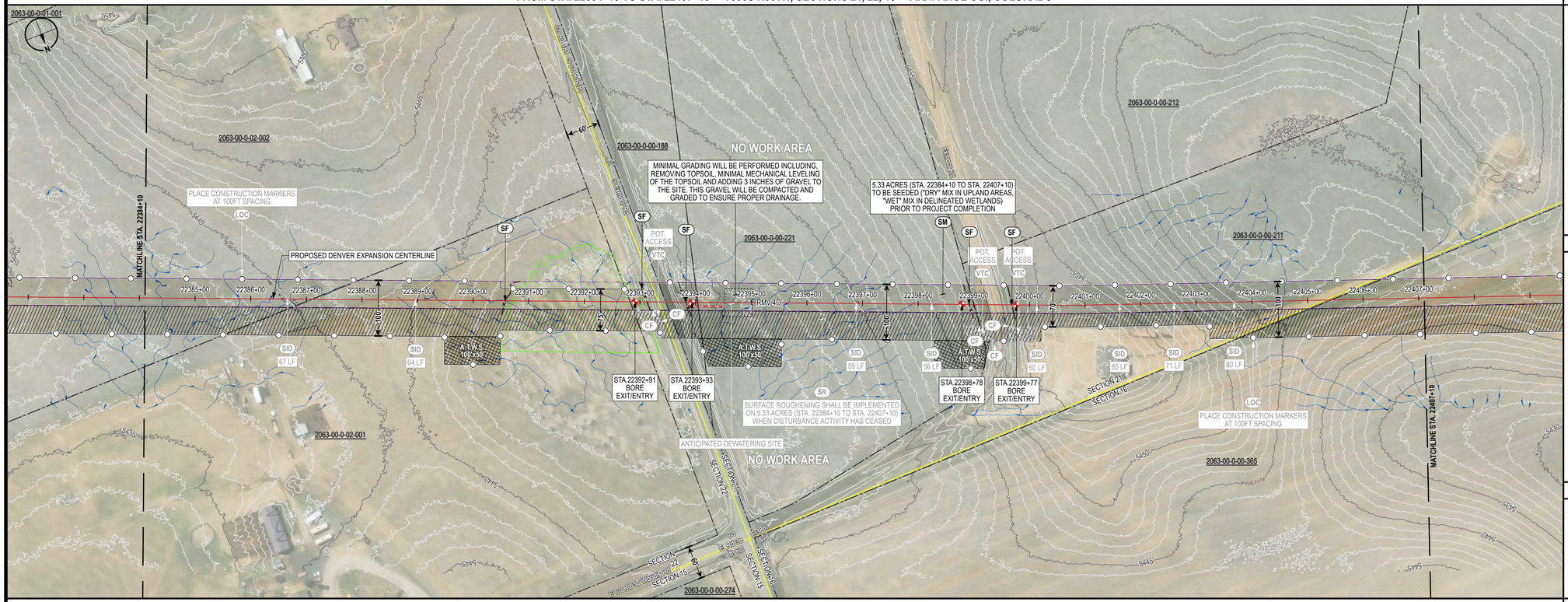
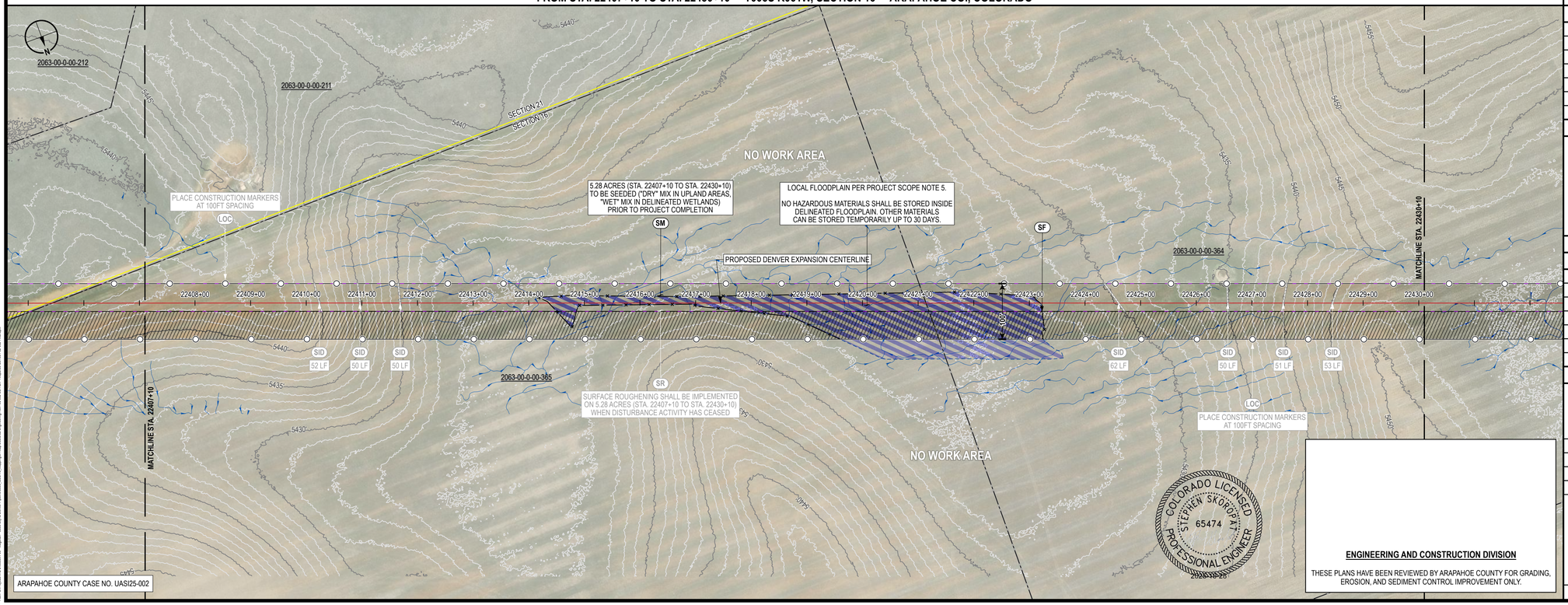


FROM STA. 22407+10 TO STA. 22430+10 - T005S R061W, SECTION 16 - ARAPAHOE CO., COLORADO



ARAPAHOE COUNTY CASE NO. UASI25-002

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- (SID) SLOPE INTERCEPT DITCH
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0 100 200 400 US FEET

TRANSVERSE MERCATOR, NAD 1983 BLM ZONE 13N, U.S. FOOT

BILL OF MATERIALS

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DENVER EXPANSION PROJECT - SCOTT CITY TO DENVER PIPELINE

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COLORADO LICENSED
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65474
PROFESSIONAL ENGINEER
2025-10-28

ENGINEERING AND CONSTRUCTION DIVISION

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FINAL GRADING, EROSION AND SEDIMENT CONTROL PLAN ARAPAHOE COUNTY, COLORADO

FROM STA. 22384+10 TO STA 22430+10

DWG. NUMBER:	1001-02-002-010-F	REVISION:	2

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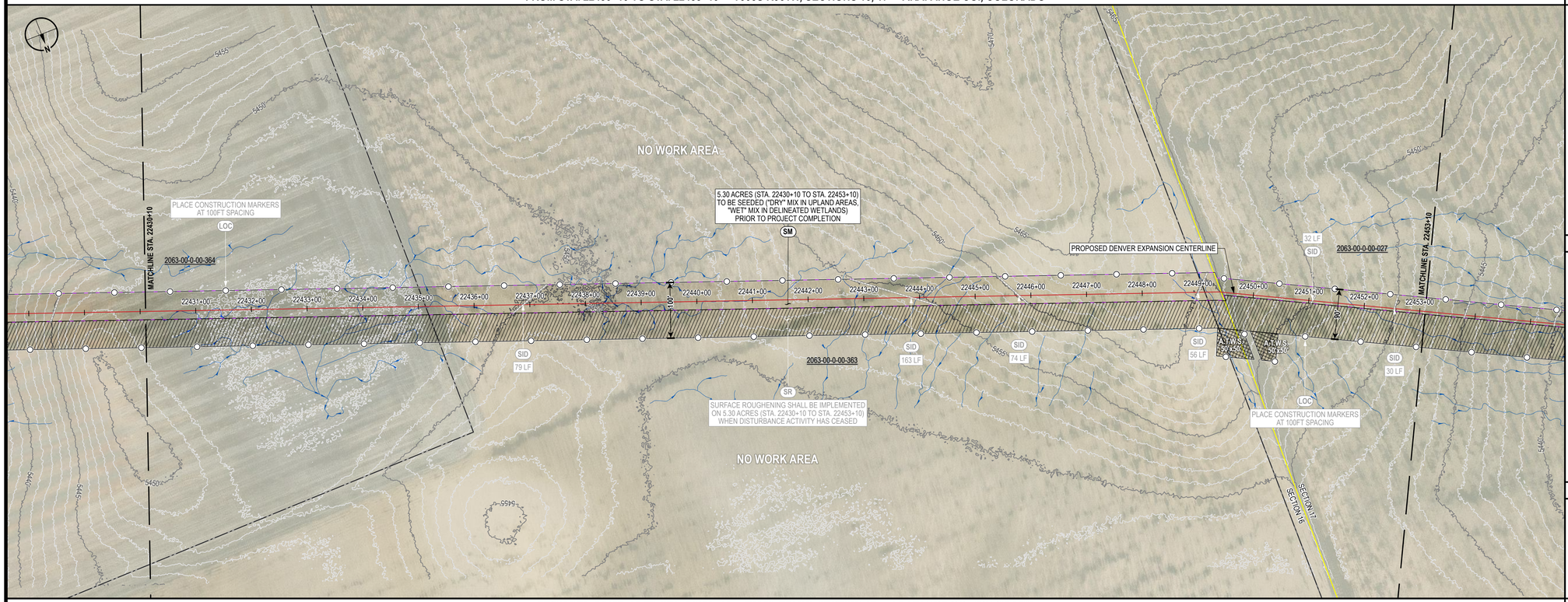
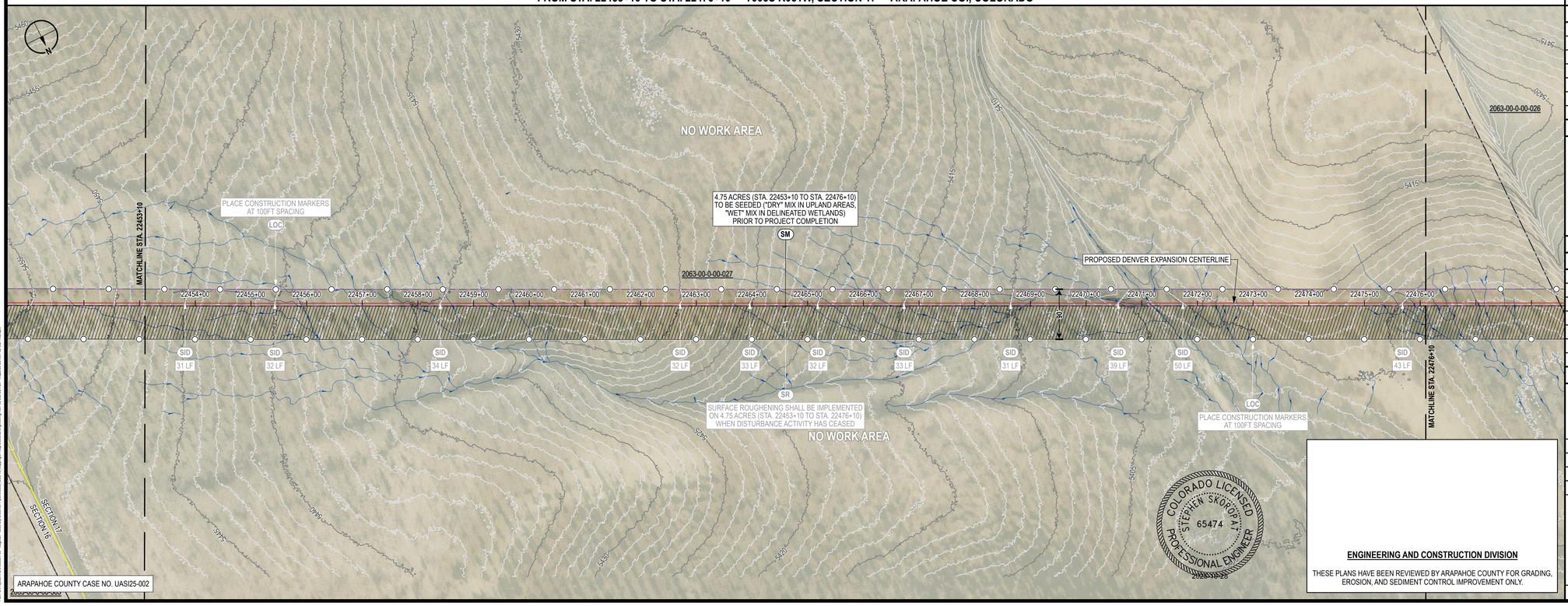
FROM STA. 22430+10 TO STA. 22453+10 - T005S R061W, SECTIONS 16, 17 - ARAPAHOE CO., COLORADO



FROM STA. 22453+10 TO STA. 22476+10 - T005S R061W, SECTION 17 - ARAPAHOE CO., COLORADO



ARAPAHOE COUNTY CASE NO. UASI25-002

2063-00-0-00-362

CONTROL MEASURE NOTES

- (VTC) VEHICLE TRACKING CONTROL
- (SR) SURFACE ROUGHENING
- (TSC) TEMPORARY STREAM CROSSING
- (SF) SILT FENCE
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TRANSVERSE MERCATOR, NAD 1983 BLM ZONE 13N, U.S. FOOT

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2025-10-28

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FROM STA. 22430+10 TO STA 22476+10

DWG. NUMBER:	1001-02-002-011-F	REVISION:	2

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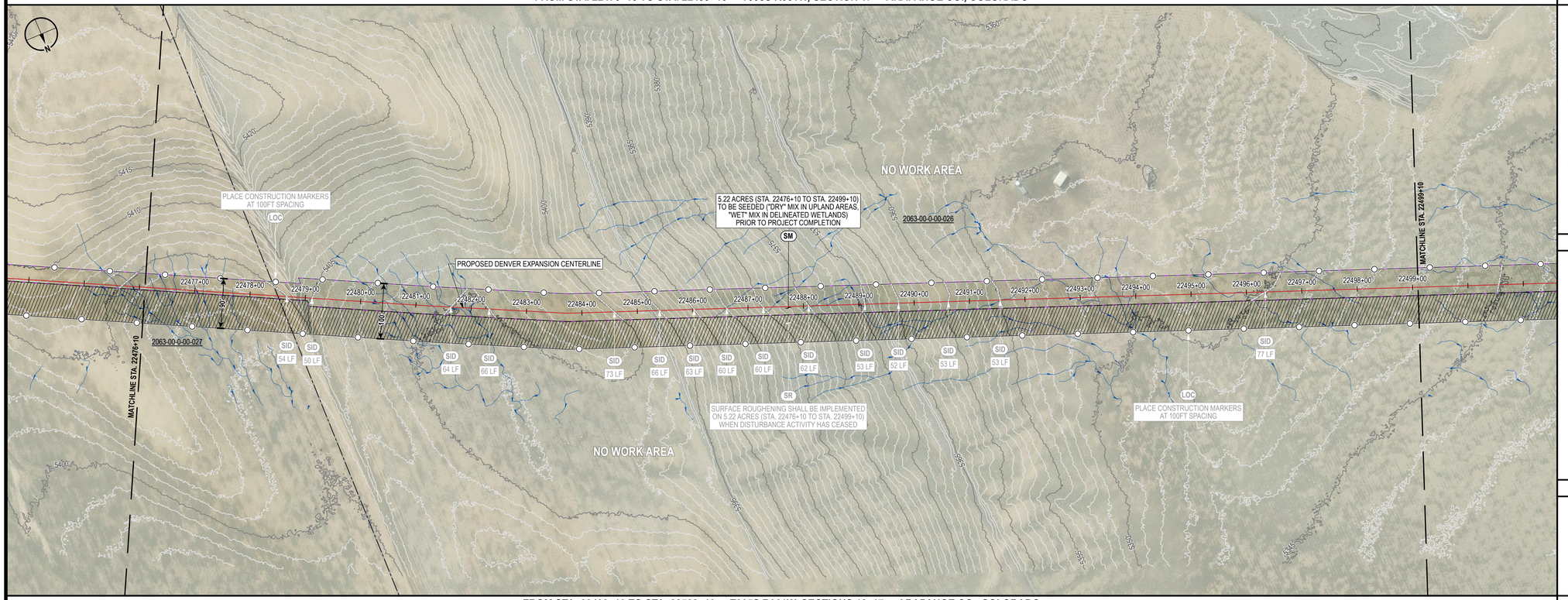
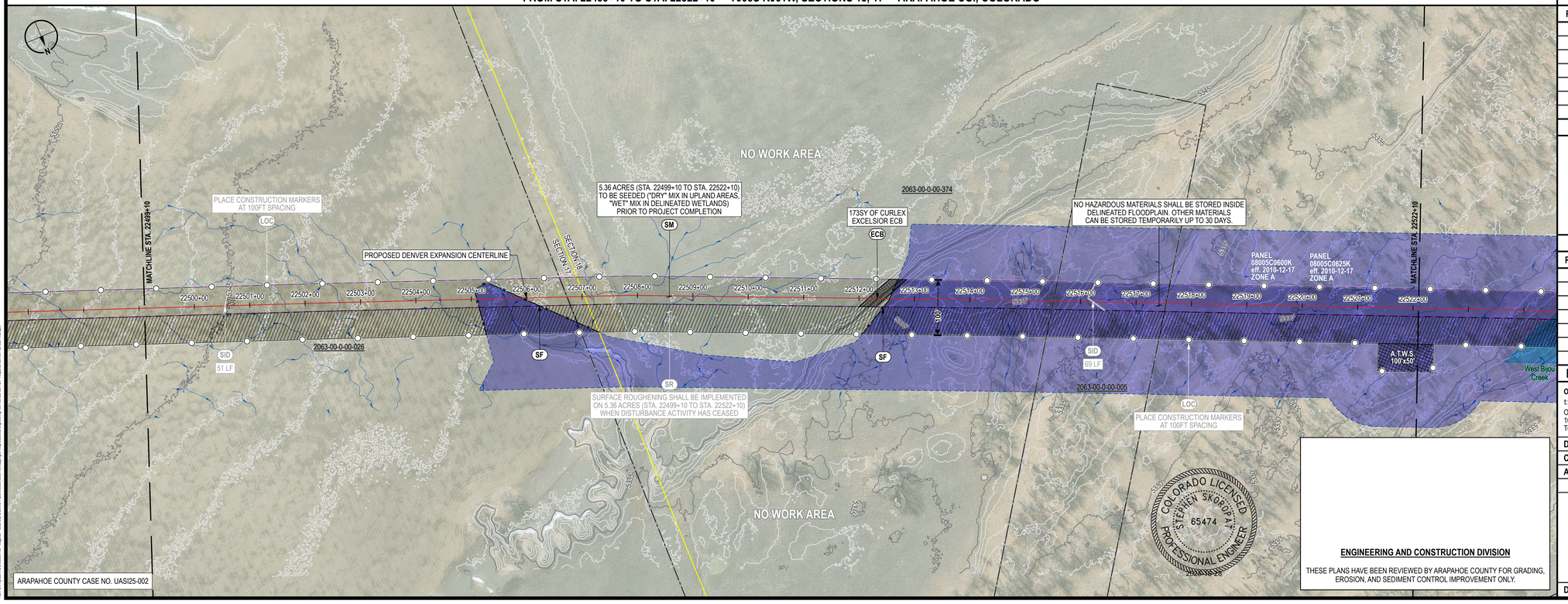
FROM STA. 22476+10 TO STA. 22499+10 - T005S R061W, SECTION 17 - ARAPAHOE CO., COLORADO



FROM STA. 22499+10 TO STA. 22522+10 - T005S R061W, SECTIONS 18, 17 - ARAPAHOE CO., COLORADO



ARAPAHOE COUNTY CASE NO. UASI25-002

CONTROL MEASURE NOTES

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- (SR) SURFACE ROUGHENING
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TRANSVERSE MERCATOR, NAD 1983 BLM ZONE 13N, U.S. FOOT

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COLORADO LICENSED STEPHEN SKOROPAT 65474 PROFESSIONAL ENGINEER 2025.10.28

ENGINEERING AND CONSTRUCTION DIVISION

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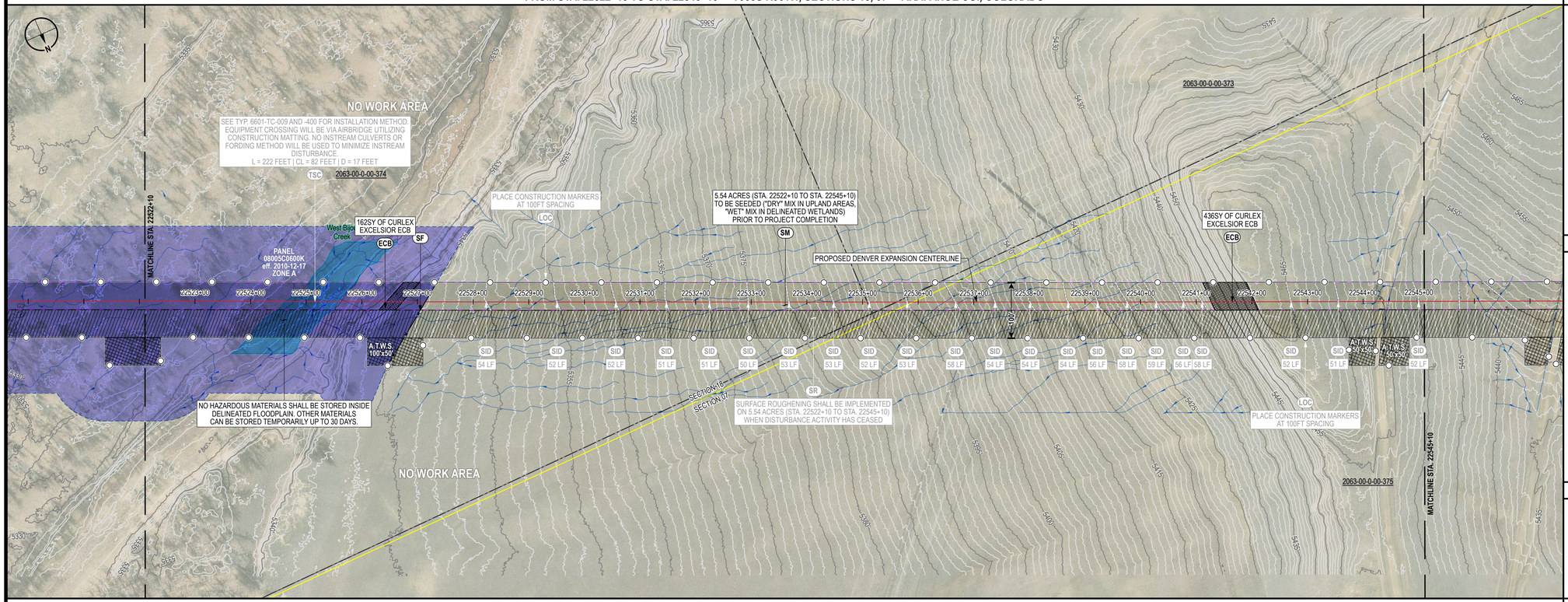
FINAL GRADING, EROSION AND SEDIMENT CONTROL PLAN ARAPAHOE COUNTY, COLORADO

FROM STA. 22476+10 TO STA 22522+10

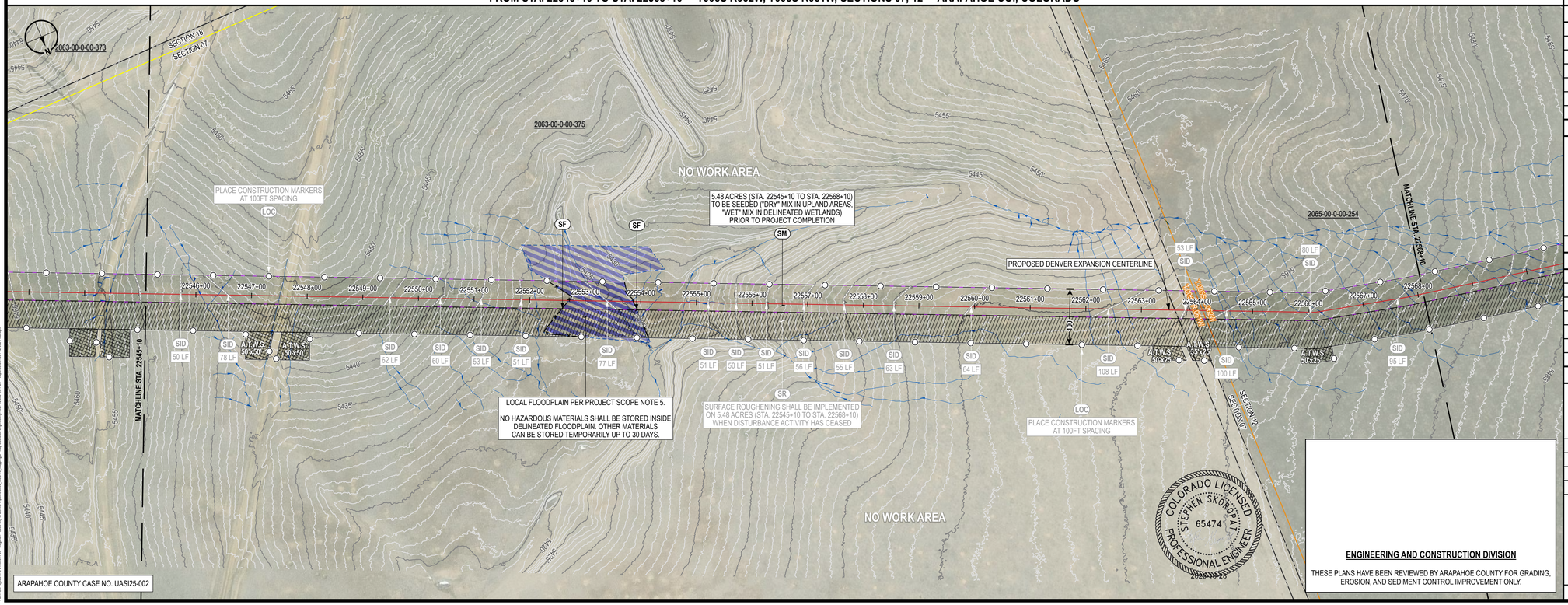
DWG. NUMBER:	1001-02-002-012-F	REVISION:	2

Xref: G:\Projects\TSL_ADS\ONE-00 - Magellan - Scott City to Denver Pipeline\WD_GIS\16. Mapping\01 Map Books\02 Engineering\1001-02-002 EC Plan - Arapahoe Co\1001-02-002 Final.aprx

FROM STA. 22522+10 TO STA. 22545+10 - T005S R061W, SECTIONS 18, 07 - ARAPAHOE CO., COLORADO



FROM STA. 22545+10 TO STA. 22568+10 - T005S R062W, T005S R061W, SECTIONS 07, 12 - ARAPAHOE CO., COLORADO



CONTROL MEASURE NOTES

- (VTC) VEHICLE TRACKING CONTROL
- (SR) SURFACE ROUGHENING
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0 100 200 400 US FEET

TRANSVERSE MERCATOR, NAD 1983 BLM ZONE 13N, U.S. FOOT

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APPROVED BY:	SS	SHEET:	59 OF 95

FINAL GRADING, EROSION AND SEDIMENT CONTROL PLAN ARAPAHOE COUNTY, COLORADO

FROM STA. 22522+10 TO STA 22568+10

DWG. NUMBER: 1001-02-002-013-F

REVISION: 2

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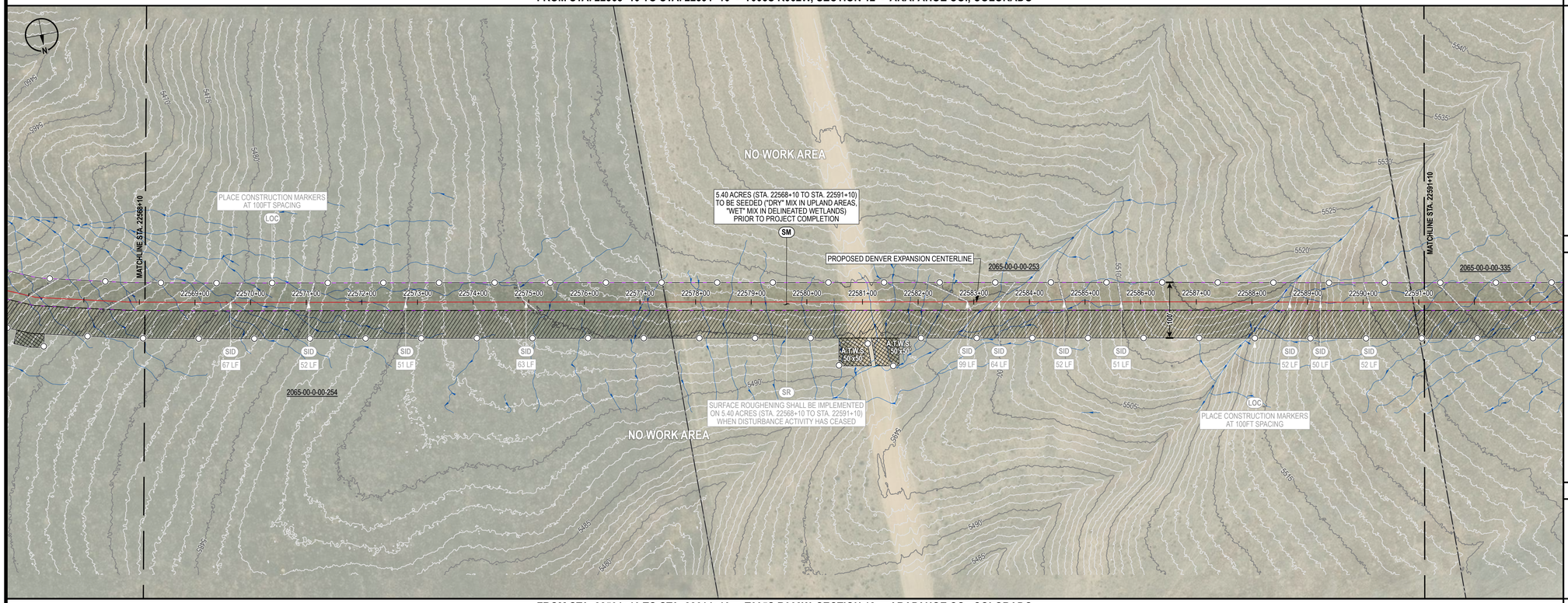

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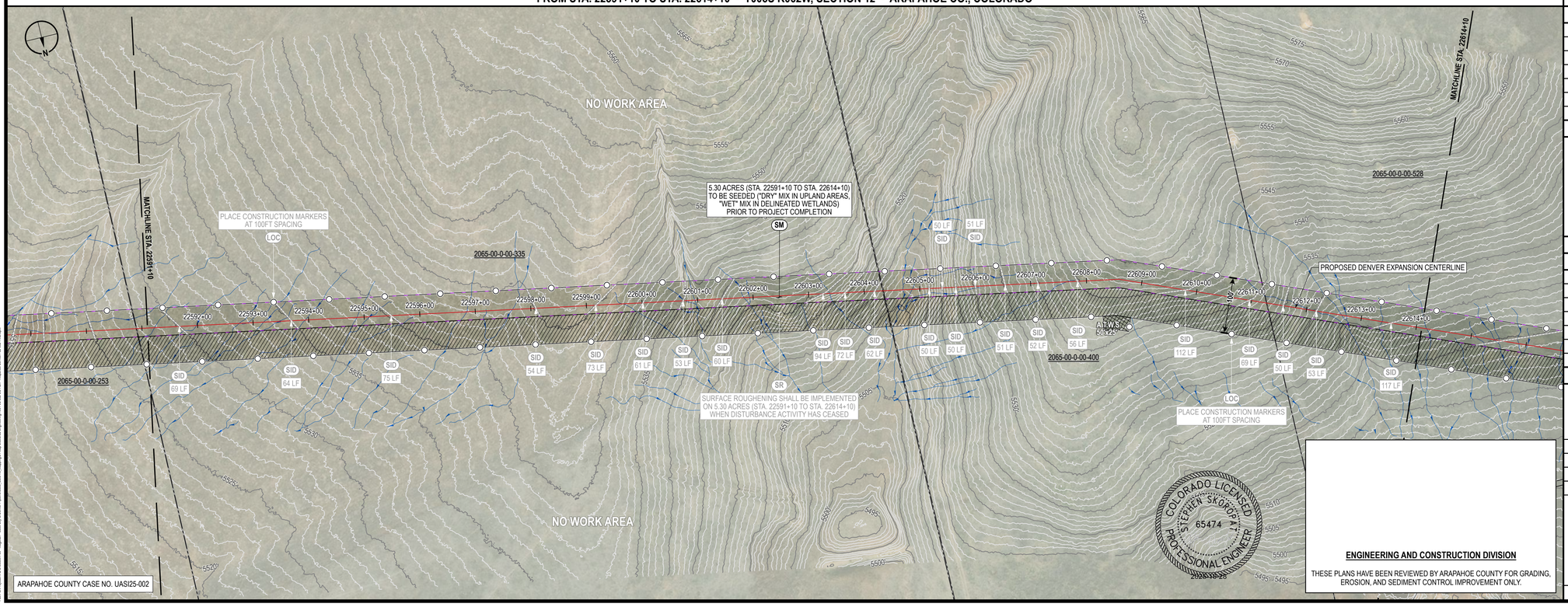

CONTROL MEASURE NOTES

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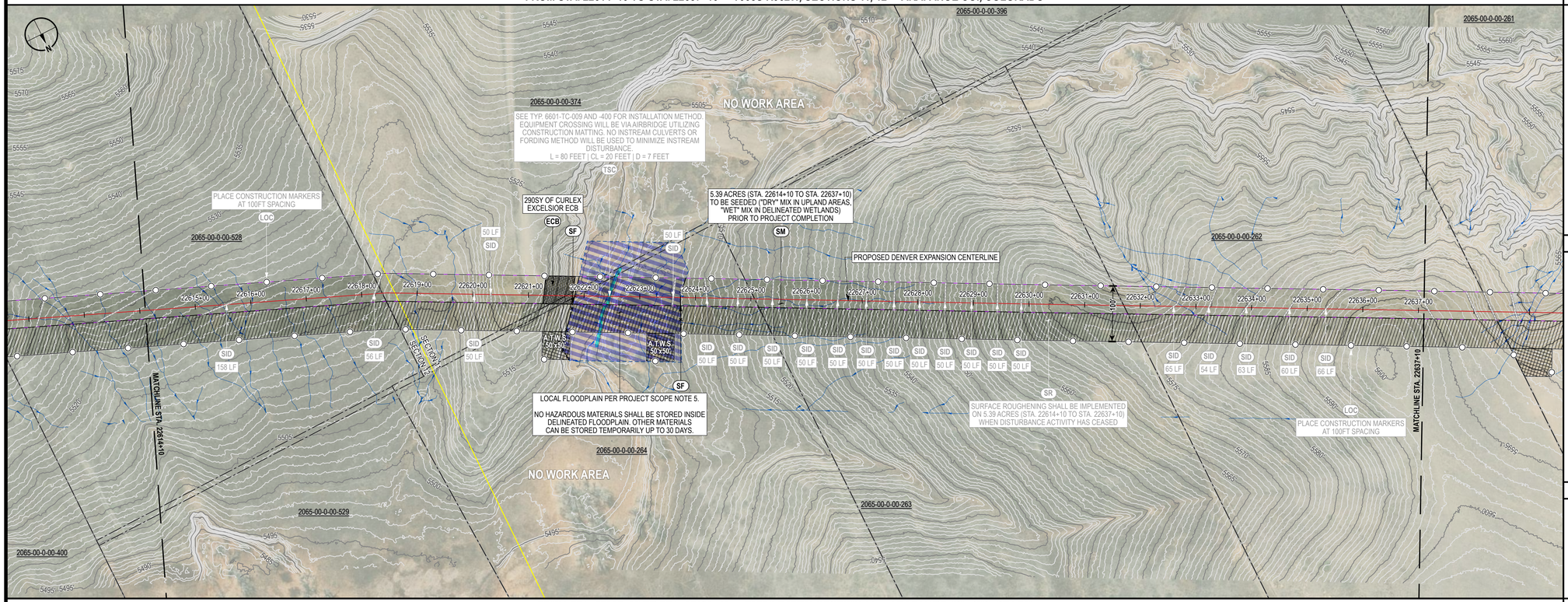
FINAL GRADING, EROSION AND SEDIMENT CONTROL PLAN ARAPAHOE COUNTY, COLORADO

FROM STA. 22568+10 TO STA 22614+10

DWG. NUMBER:	1001-02-002-014-F	REVISION:	2

Xref: G:\Projects\TSK_0402004-04 - Magellan - Scott City to Denver Pipeline\0000_GEO\16_Mapping\01 Map Books\02 Engineering\1001-02-002-EC Plan - Arapahoe Co\1001-02-002-EC Plan - Arapahoe Co.mxd 10/27/2025 08:28:07 PM by adam

FROM STA. 22614+10 TO STA. 22637+10 - T005S R062W, SECTIONS 11, 12 - ARAPAHOE CO., COLORADO



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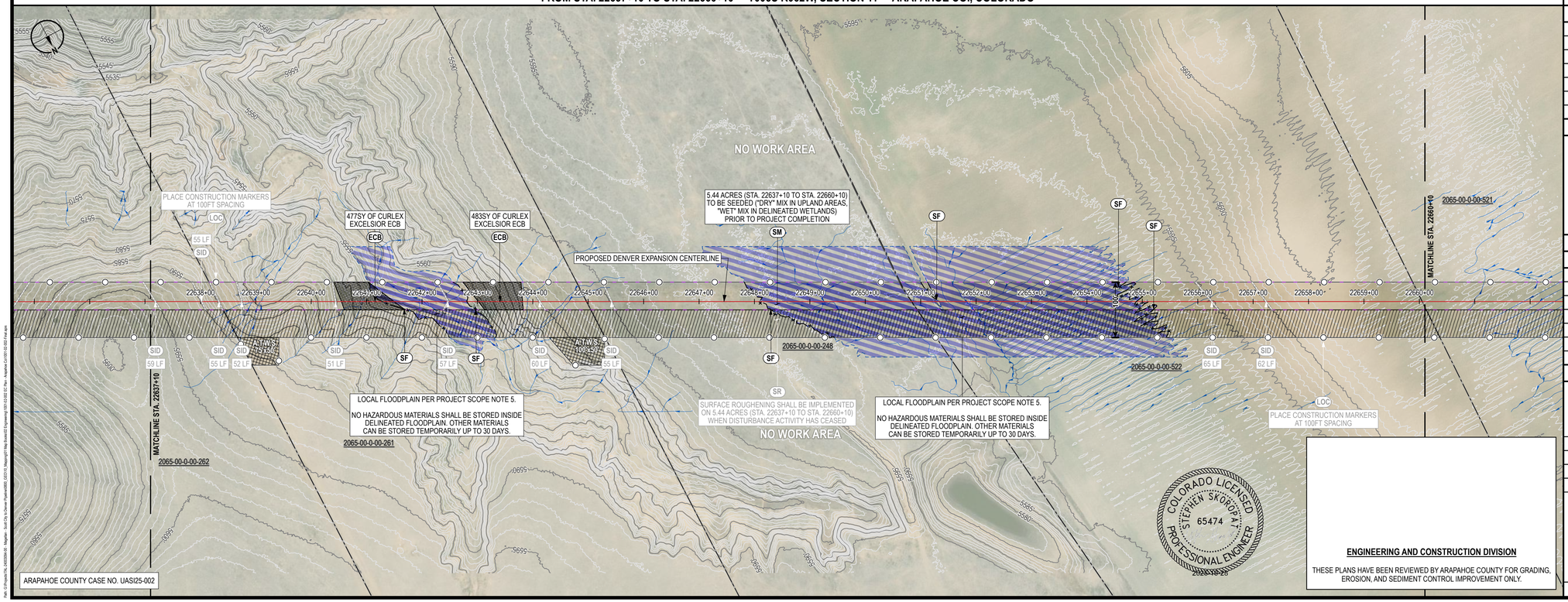

ARAPAHOE COUNTY CASE NO. UASI25-002

CONTROL MEASURE NOTES

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APPROVED BY:	SS	SHEET:	61 OF 95

COLORADO LICENSED
STEPHEN SKOROAT
65474
PROFESSIONAL ENGINEER
2026-01-28

ENGINEERING AND CONSTRUCTION DIVISION

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FROM STA. 22614+10 TO STA 22660+10

DWG. NUMBER:	1001-02-002-015-F	REVISION:	2

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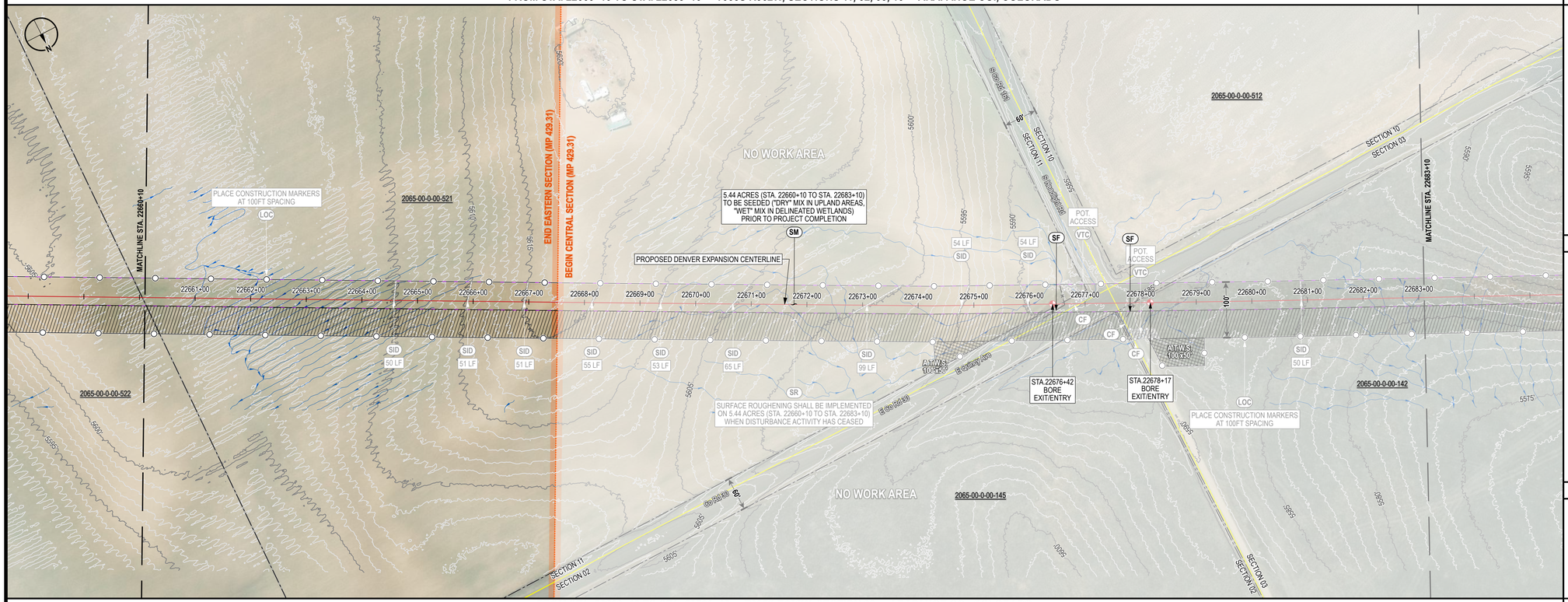
FROM STA. 22660+10 TO STA. 22683+10 - T005S R062W, SECTIONS 11, 02, 03, 10 - ARAPAHOE CO., COLORADO



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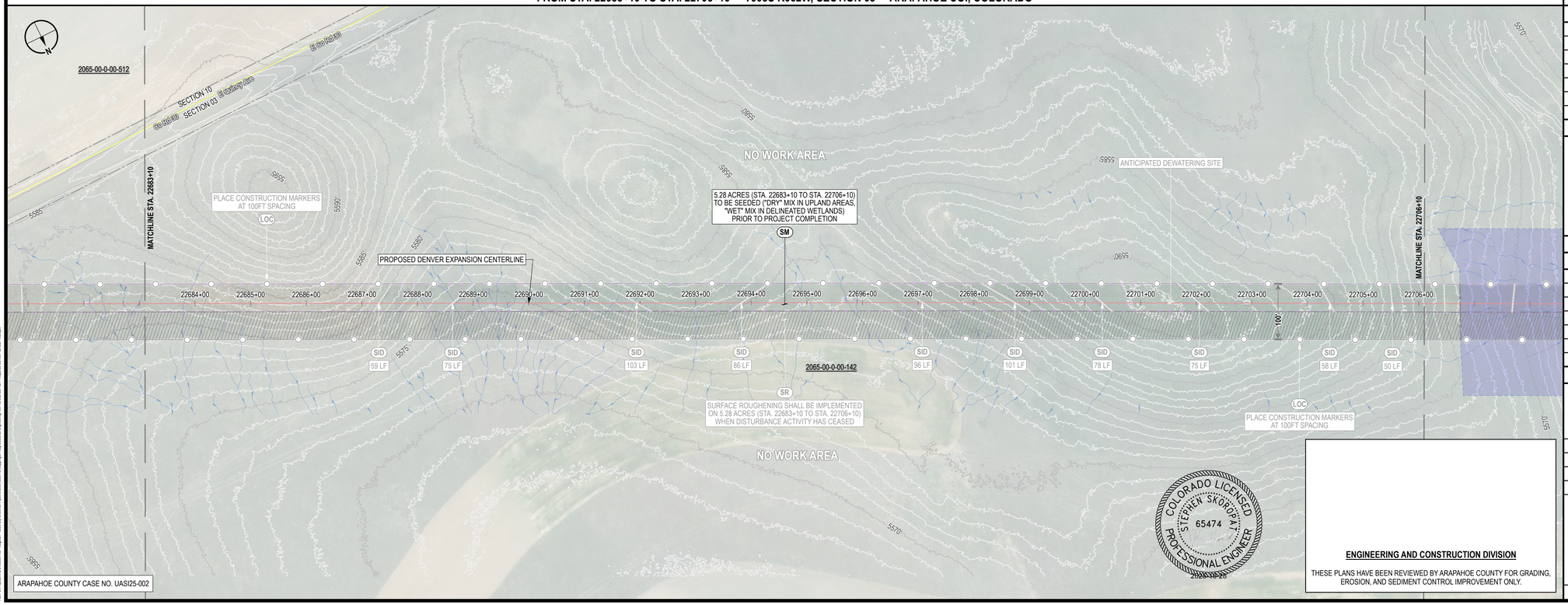

ARAPAHOE COUNTY CASE NO. UASI25-002

CONTROL MEASURE NOTES

- (VTC) VEHICLE TRACKING CONTROL
- (SR) SURFACE ROUGHENING
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- (SF) SILT FENCE
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TRANSVERSE MERCATOR, NAD 1983 BLM ZONE 13N, U.S. FOOT

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COLORADO LICENSED STEPHEN SKOROPAT 65474 PROFESSIONAL ENGINEER 2025.10.28

ENGINEERING AND CONSTRUCTION DIVISION

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FINAL GRADING, EROSION AND SEDIMENT CONTROL PLAN ARAPAHOE COUNTY, COLORADO

FROM STA. 22660+10 TO STA 22706+10

DWG. NUMBER:	1001-02-002-016-F	REVISION:	2

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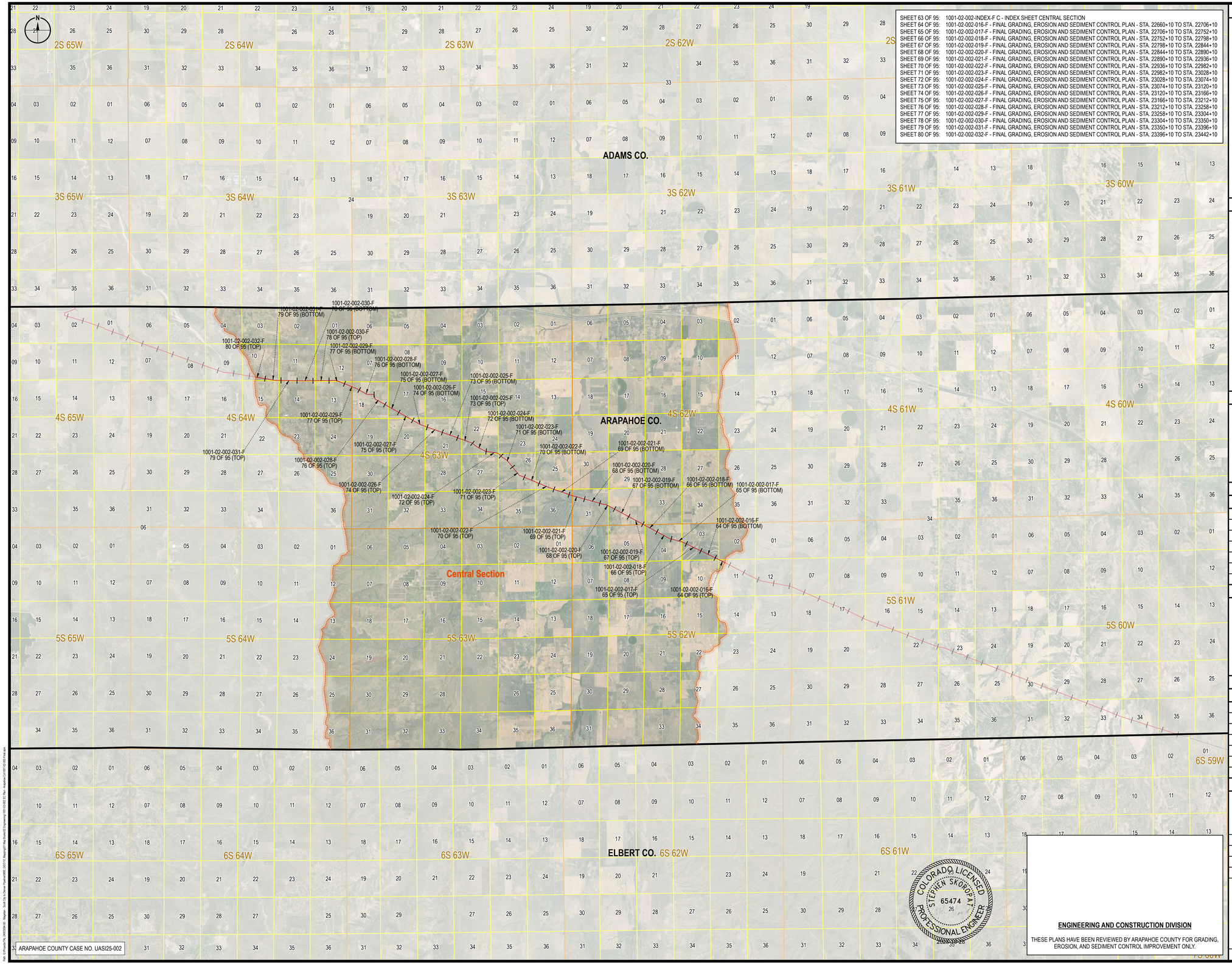

SHEET 63 OF 95: 1001-02-002-INDEX-F C - INDEX SHEET CENTRAL SECTION
SHEET 64 OF 95: 1001-02-002-016-F - FINAL GRADING, EROSION AND SEDIMENT CONTROL PLAN - STA. 22660+10 TO STA. 22706+10
SHEET 65 OF 95: 1001-02-002-017-F - FINAL GRADING, EROSION AND SEDIMENT CONTROL PLAN - STA. 22706+10 TO STA. 22752+10
SHEET 66 OF 95: 1001-02-002-018-F - FINAL GRADING, EROSION AND SEDIMENT CONTROL PLAN - STA. 22752+10 TO STA. 22798+10
SHEET 67 OF 95: 1001-02-002-019-F - FINAL GRADING, EROSION AND SEDIMENT CONTROL PLAN - STA. 22798+10 TO STA. 22844+10
SHEET 68 OF 95: 1001-02-002-020-F - FINAL GRADING, EROSION AND SEDIMENT CONTROL PLAN - STA. 22844+10 TO STA. 22890+10
SHEET 69 OF 95: 1001-02-002-021-F - FINAL GRADING, EROSION AND SEDIMENT CONTROL PLAN - STA. 22890+10 TO STA. 22936+10
SHEET 70 OF 95: 1001-02-002-022-F - FINAL GRADING, EROSION AND SEDIMENT CONTROL PLAN - STA. 22936+10 TO STA. 22982+10
SHEET 71 OF 95: 1001-02-002-023-F - FINAL GRADING, EROSION AND SEDIMENT CONTROL PLAN - STA. 22982+10 TO STA. 23028+10
SHEET 72 OF 95: 1001-02-002-024-F - FINAL GRADING, EROSION AND SEDIMENT CONTROL PLAN - STA. 23028+10 TO STA. 23074+10
SHEET 73 OF 95: 1001-02-002-025-F - FINAL GRADING, EROSION AND SEDIMENT CONTROL PLAN - STA. 23074+10 TO STA. 23120+10
SHEET 74 OF 95: 1001-02-002-026-F - FINAL GRADING, EROSION AND SEDIMENT CONTROL PLAN - STA. 23120+10 TO STA. 23166+10
SHEET 75 OF 95: 1001-02-002-027-F - FINAL GRADING, EROSION AND SEDIMENT CONTROL PLAN - STA. 23166+10 TO STA. 23212+10
SHEET 76 OF 95: 1001-02-002-028-F - FINAL GRADING, EROSION AND SEDIMENT CONTROL PLAN - STA. 23212+10 TO STA. 23258+10
SHEET 77 OF 95: 1001-02-002-029-F - FINAL GRADING, EROSION AND SEDIMENT CONTROL PLAN - STA. 23258+10 TO STA. 23304+10
SHEET 78 OF 95: 1001-02-002-030-F - FINAL GRADING, EROSION AND SEDIMENT CONTROL PLAN - STA. 23304+10 TO STA. 23350+10
SHEET 79 OF 95: 1001-02-002-031-F - FINAL GRADING, EROSION AND SEDIMENT CONTROL PLAN - STA. 23350+10 TO STA. 23396+10
SHEET 80 OF 95: 1001-02-002-032-F - FINAL GRADING, EROSION AND SEDIMENT CONTROL PLAN - STA. 23396+10 TO STA. 23442+10

ARAPAHOE COUNTY CASE NO. UASI25-002

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0 5,000 10,000 20,000 US FEET

TRANSVERSE MERCATOR, NAD 1983 BLM ZONE 13N, U.S. FOOT

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2025-10-28

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FINAL GRADING, EROSION AND SEDIMENT CONTROL PLAN ARAPAHOE COUNTY, COLORADO

INDEX SHEET - CENTRAL SECTION

DWG. NUMBER: 1001-02-002-INDEX-F C | REVISION: 2

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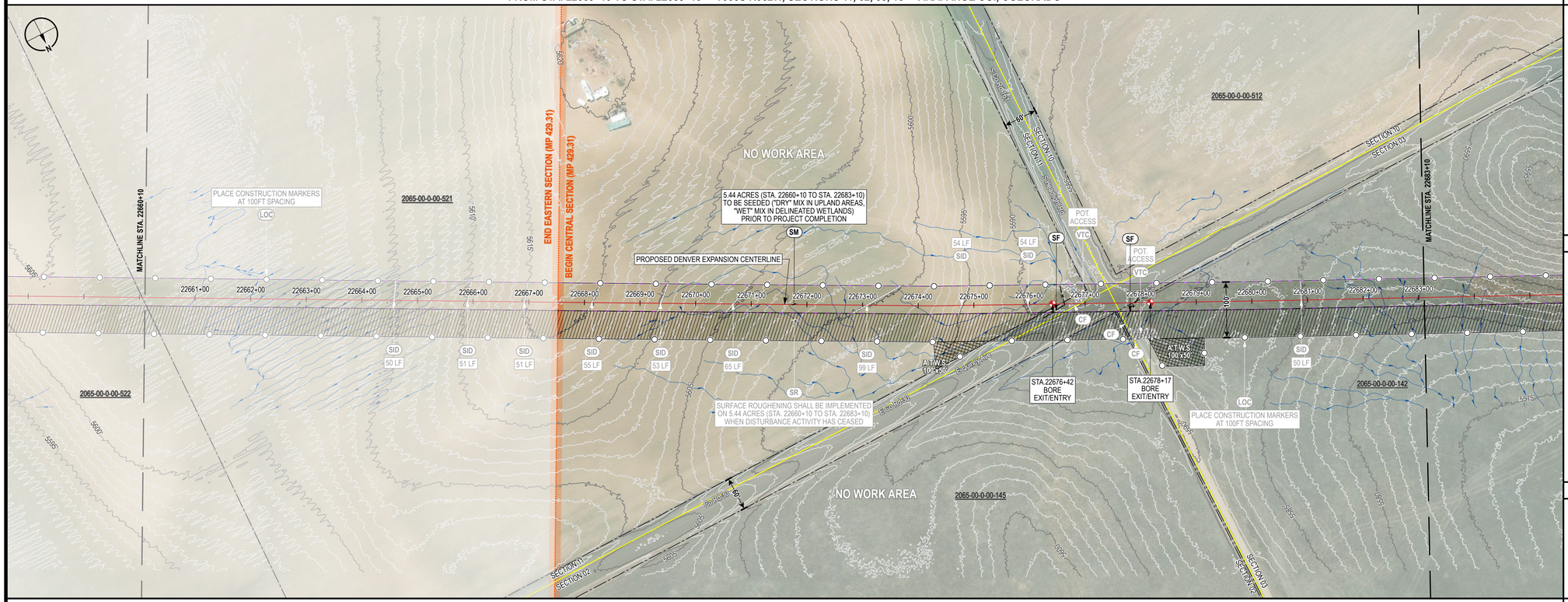
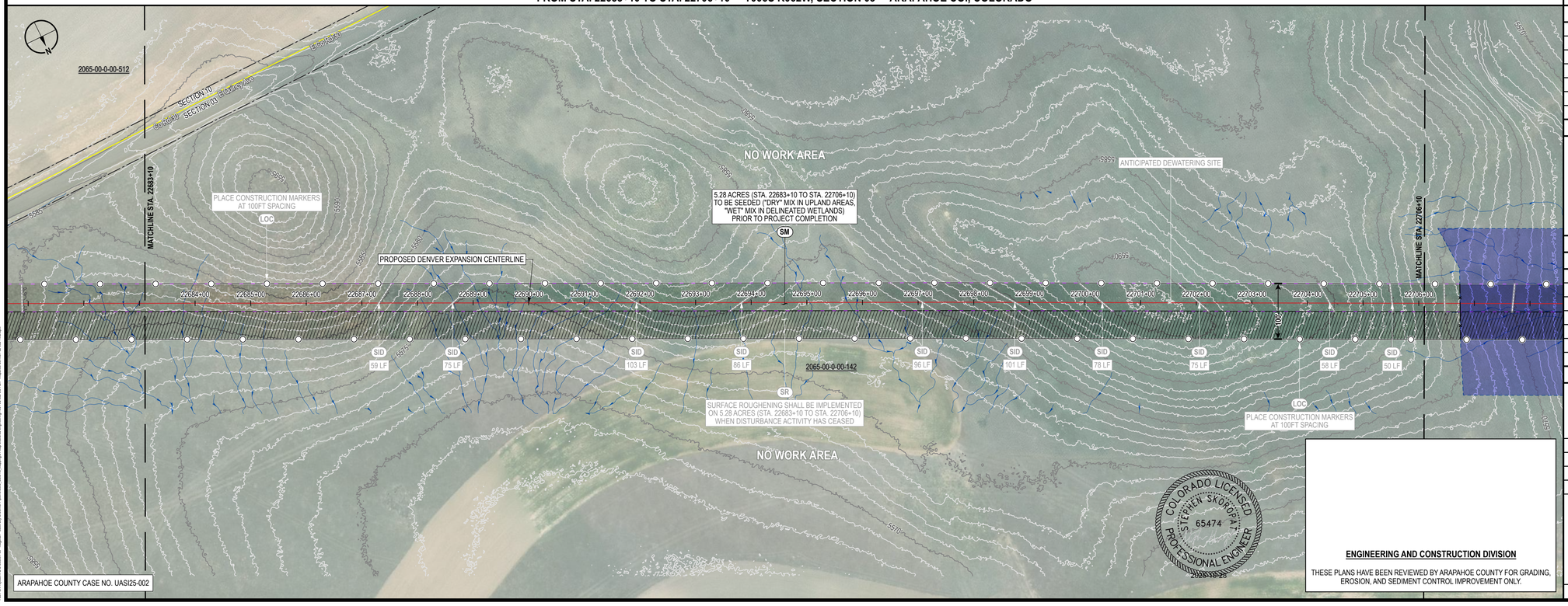
FROM STA. 22660+10 TO STA. 22683+10 - T005S R062W, SECTIONS 11, 02, 03, 10 - ARAPAHOE CO., COLORADO



FROM STA. 22683+10 TO STA. 22706+10 - T005S R062W, SECTION 03 - ARAPAHOE CO., COLORADO



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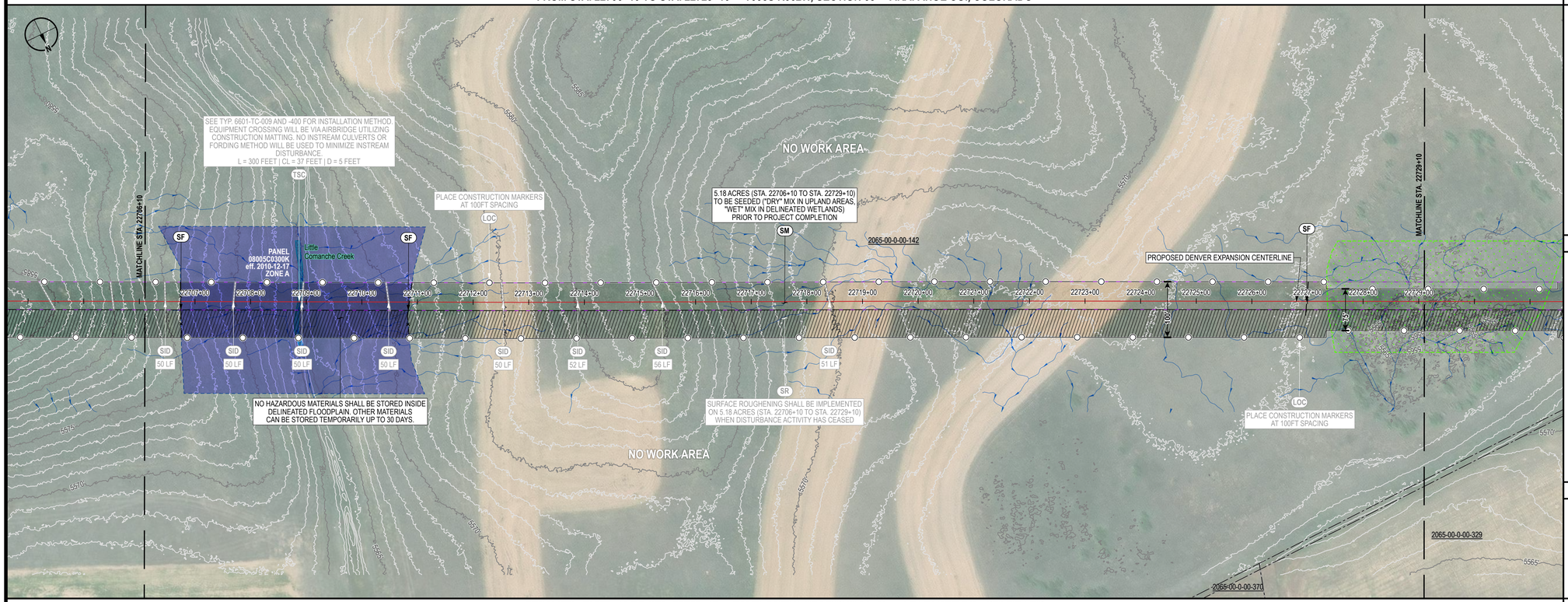
Xref: G:\Projects\70s_ONEOK\94-GE - Magellan - Scott City to Denver Pipeline\WG_GIS\16_Mapping\01 Map Books\02 Engineering\1001-02-002-EC Plan - Arapahoe Co\1001-02-002-EC Plan.mxd

FROM STA. 22706+10 TO STA. 22729+10 - T005S R062W, SECTION 03 - ARAPAHOE CO., COLORADO



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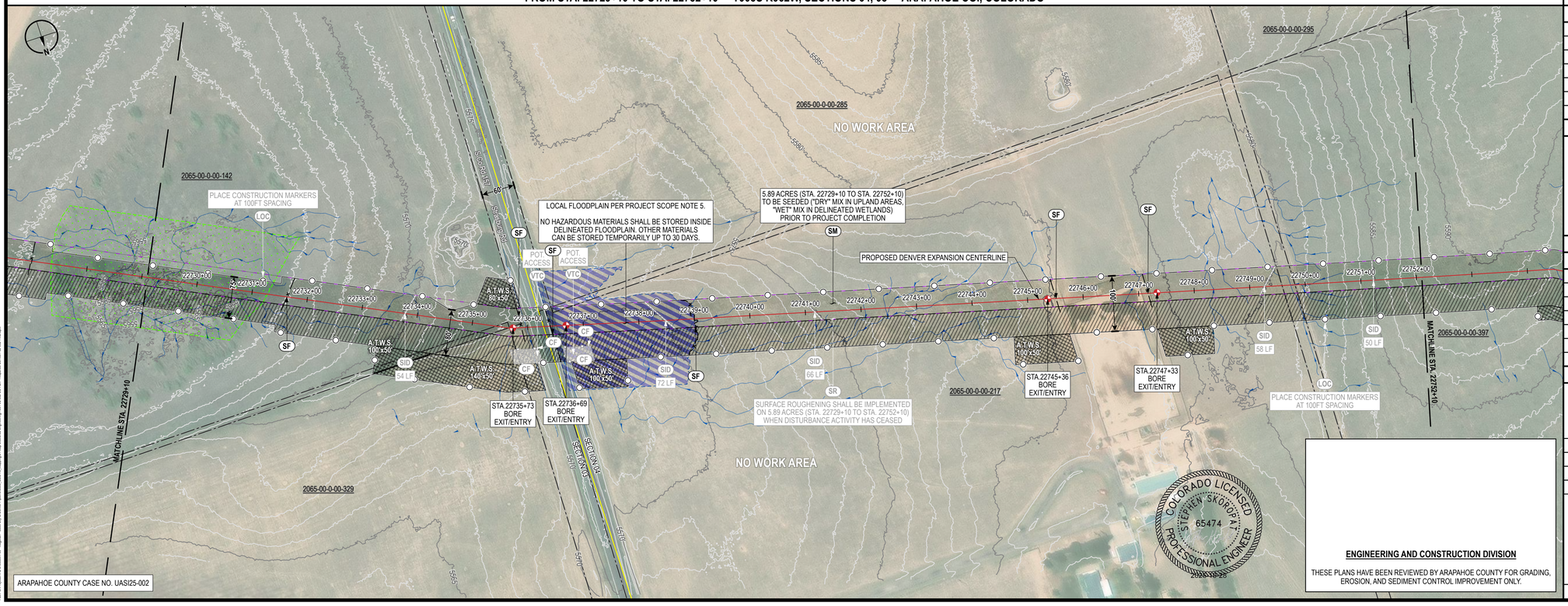

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Xref: G:\Projects\ONEOK_0400\0044-00 - Magellan - Scott City to Denver Pipeline\0800_GEO\16_Mapping\01 Map Books\02 Engineering\1001-02-002-017.mxd - Arapahoe Co\1001-02-002-017-Plan - Arapahoe Co.mxd

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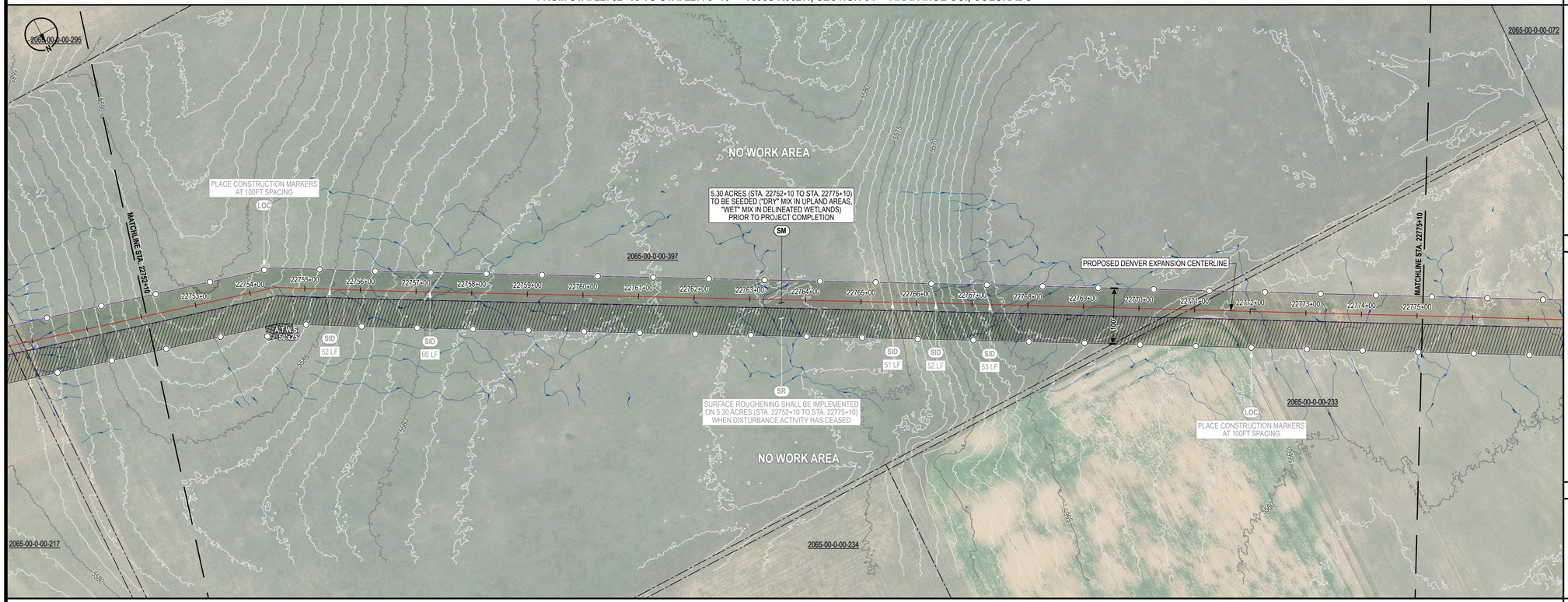

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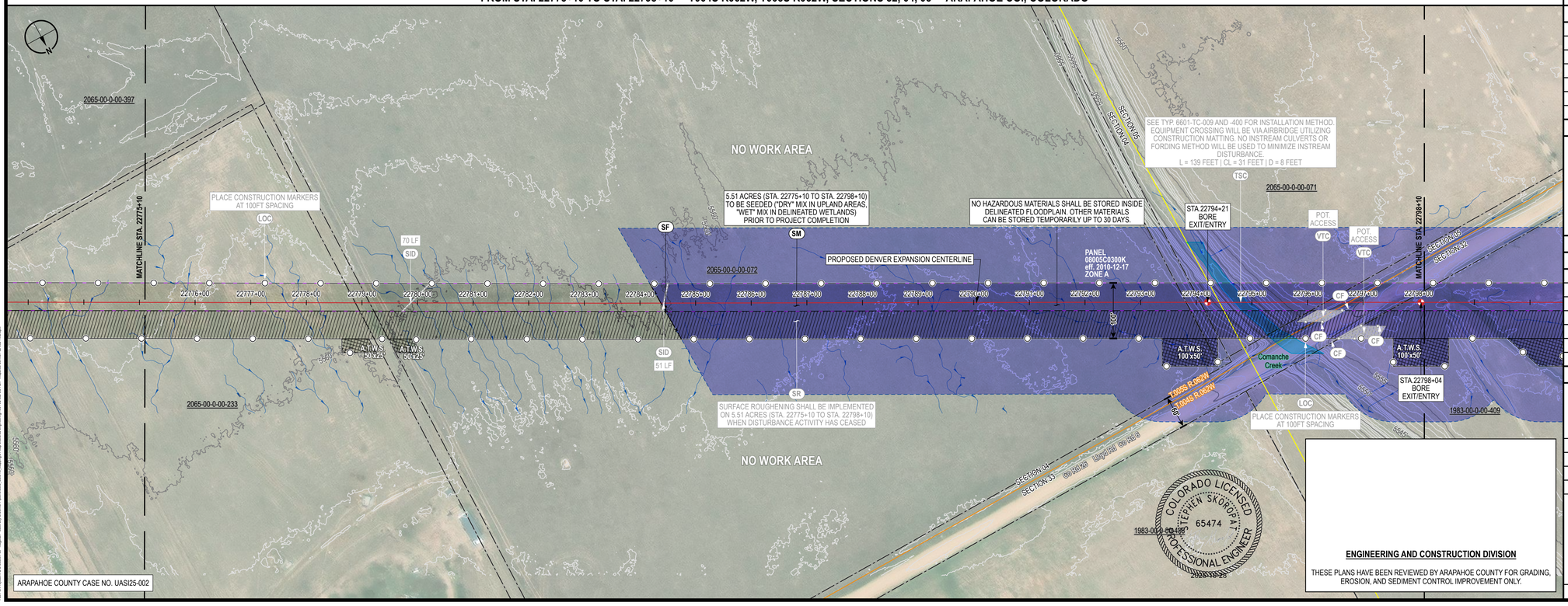

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t: +1 (713) 439-3600
f: +1 (713) 963-9085
11330 Clay Road, Suite 550
Houston, TX 77041, USA

DRAWN BY:	PD	DATE:	10/24/25
CHECKED BY:	DS	SCALE:	1" = 100' (PRINTED AT 24"x36")
APPROVED BY:	SS	SHEET:	66 OF 95

FINAL GRADING, EROSION AND SEDIMENT CONTROL PLAN ARAPAHOE COUNTY, COLORADO

FROM STA. 22752+10 TO STA 22798+10

DWG. NUMBER:	1001-02-002-018-F	REVISION:	2

COLORADO LICENSED STEPHEN SKOROPAT 65474 PROFESSIONAL ENGINEER 2025-10-28

ENGINEERING AND CONSTRUCTION DIVISION

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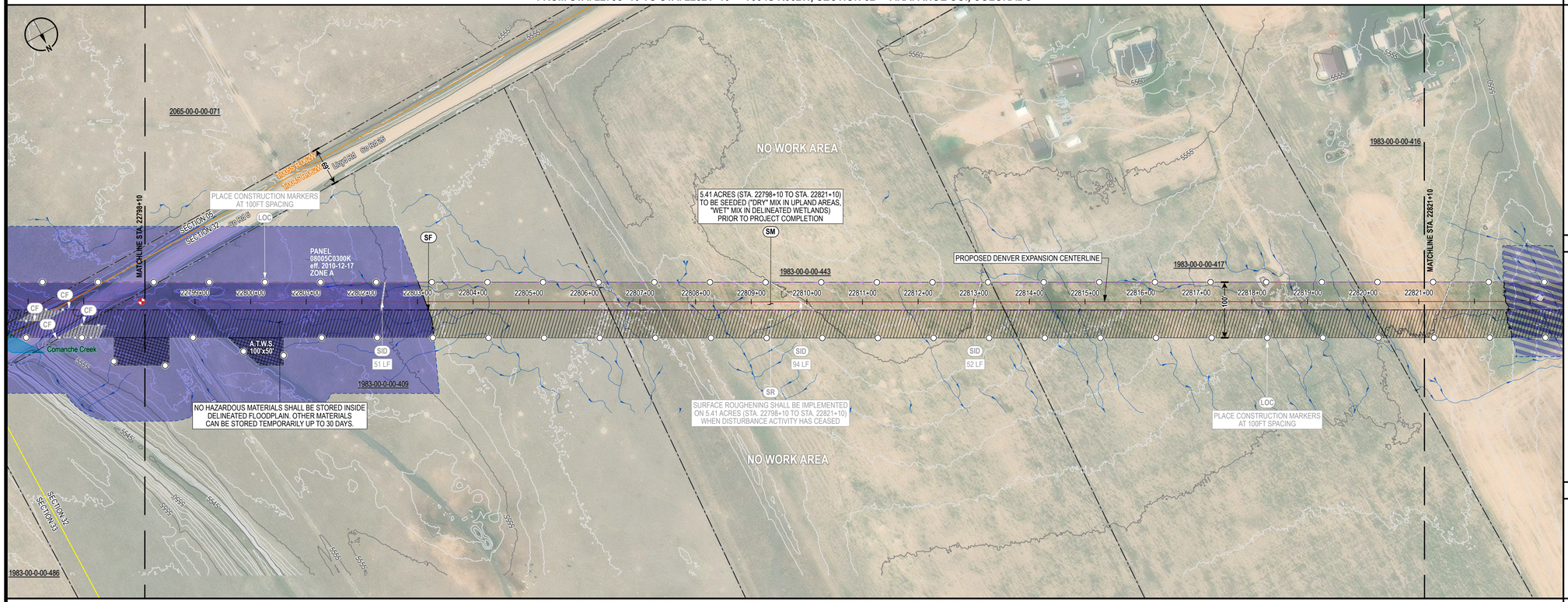
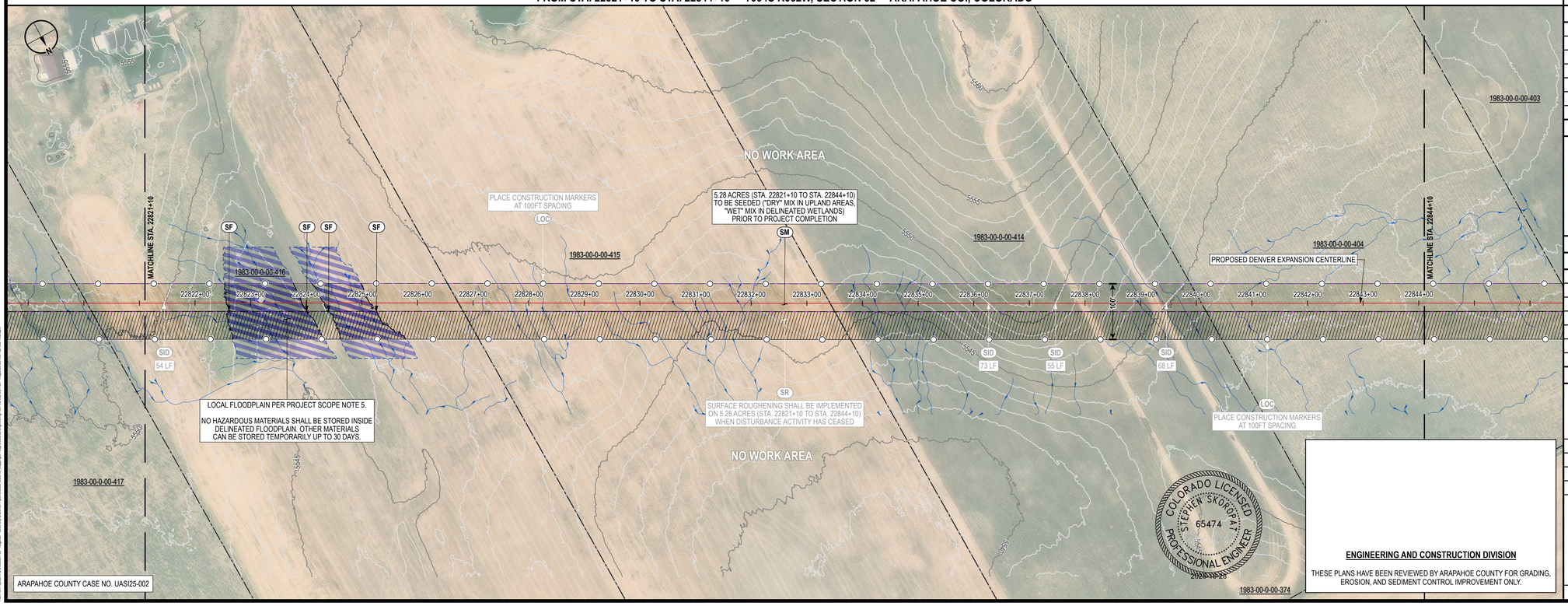
FROM STA. 22798+10 TO STA. 22821+10 - T004S R062W, SECTION 32 - ARAPAHOE CO., COLORADO



FROM STA. 22821+10 TO STA. 22844+10 - T004S R062W, SECTION 32 - ARAPAHOE CO., COLORADO



ARAPAHOE COUNTY CASE NO. UASI25-002

CONTROL MEASURE NOTES

- (VTC) VEHICLE TRACKING CONTROL
- (SR) SURFACE ROUGHENING
- (TSC) TEMPORARY STREAM CROSSING
- (SF) SILT FENCE
- (CF) CONSTRUCTION FENCE
- (ECB) EROSION CONTROL BLANKET INSTALLATION (CURLEX EXCELSIOR)
- (SID) SLOPE INTERCEPT DITCH
- (CM) CONSTRUCTION MARKER
- (SM) SEED AND MULCH
- (LOC) LIMITS OF CONSTRUCTION (SEE PROPOSED EASEMENT BOUNDARY / TEMPORARY WORKSPACE BOUNDARY BELOW)

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- TOWNSHIP BOUNDARY
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0 100 200 400 US FEET

TRANSVERSE MERCATOR, NAD 1983 BLM ZONE 13N, U.S. FOOT

BILL OF MATERIALS

REFERENCE DRAWINGS

REF.	DWG. NUMBER	DWG. TITLE

CP FEATURE DATA

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DENVER EXPANSION PROJECT - SCOTT CITY TO DENVER PIPELINE

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COLORADO LICENSED
STEPHEN SKOROJAT
65474
PROFESSIONAL ENGINEER
2025-10-28

ENGINEERING AND CONSTRUCTION DIVISION

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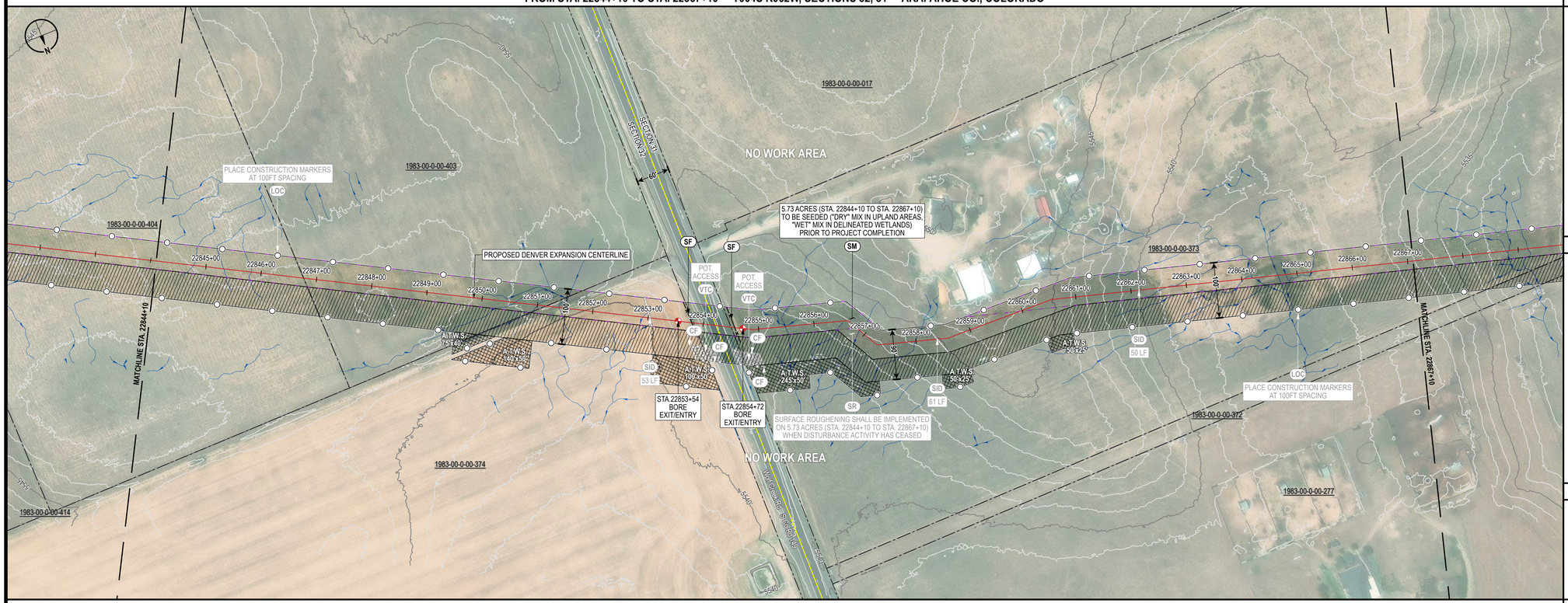
FINAL GRADING, EROSION AND SEDIMENT CONTROL PLAN ARAPAHOE COUNTY, COLORADO

FROM STA. 22798+10 TO STA 22844+10

DWG. NUMBER:	1001-02-002-019-F	REVISION:	2

Path: G:\Projects\TSL_0400\0044-08 - Magellan - Scott City to Denver Pipeline\0800_GEO\16_Mapping\01 Map Books\02 Engineering\1001-02-002-EC Plan - Arapahoe Co\1001-02-002-EC Plan - Arapahoe Co.MXD 10/24/2025 7:48:46 AM

FROM STA. 22844+10 TO STA. 22867+10 - T004S R062W, SECTIONS 32, 31 - ARAPAHOE CO., COLORADO



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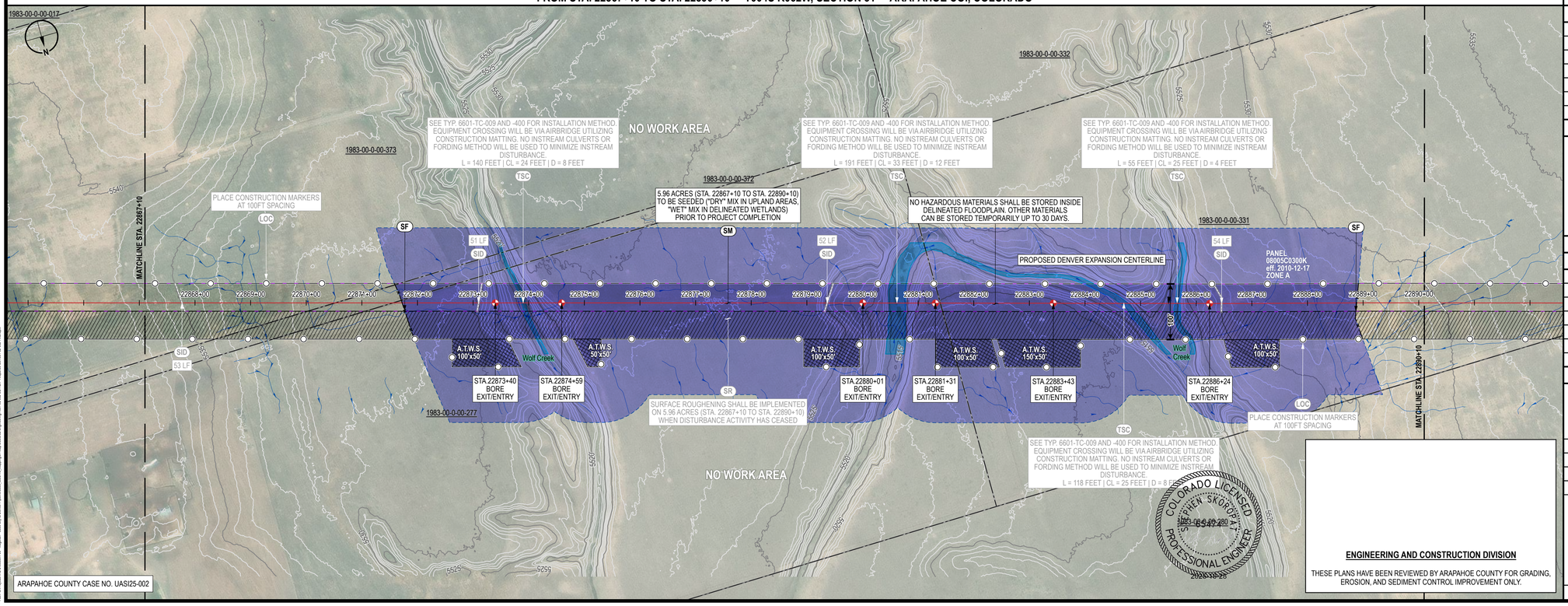

ARAPAHOE COUNTY CASE NO. UASI25-002

CONTROL MEASURE NOTES

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- (SR) SURFACE ROUGHENING
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- TOWNSHIP BOUNDARY
- COUNTY BOUNDARY

0 100 200 400 US FEET

TRANSVERSE MERCATOR, NAD 1983 BLM ZONE 13N, U.S. FOOT

BILL OF MATERIALS

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CP FEATURE DATA

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APPROVED BY:	SS	SHEET:	68 OF 95

FINAL GRADING, EROSION AND SEDIMENT CONTROL PLAN ARAPAHOE COUNTY, COLORADO

FROM STA. 22844+10 TO STA 22890+10

DWG. NUMBER:	1001-02-002-020-F	REVISION:	2

COLORADO LICENSED BRIEN SKORA PROFESSIONAL ENGINEER 10/24/25

ENGINEERING AND CONSTRUCTION DIVISION

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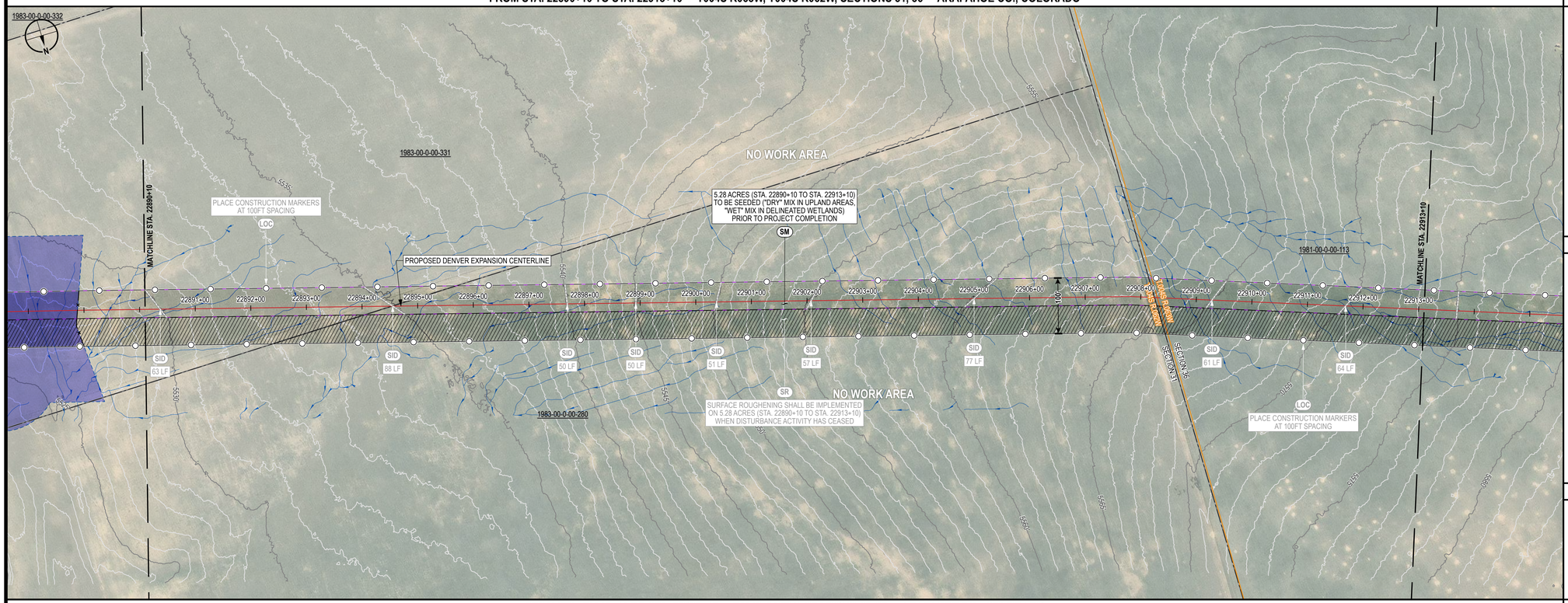
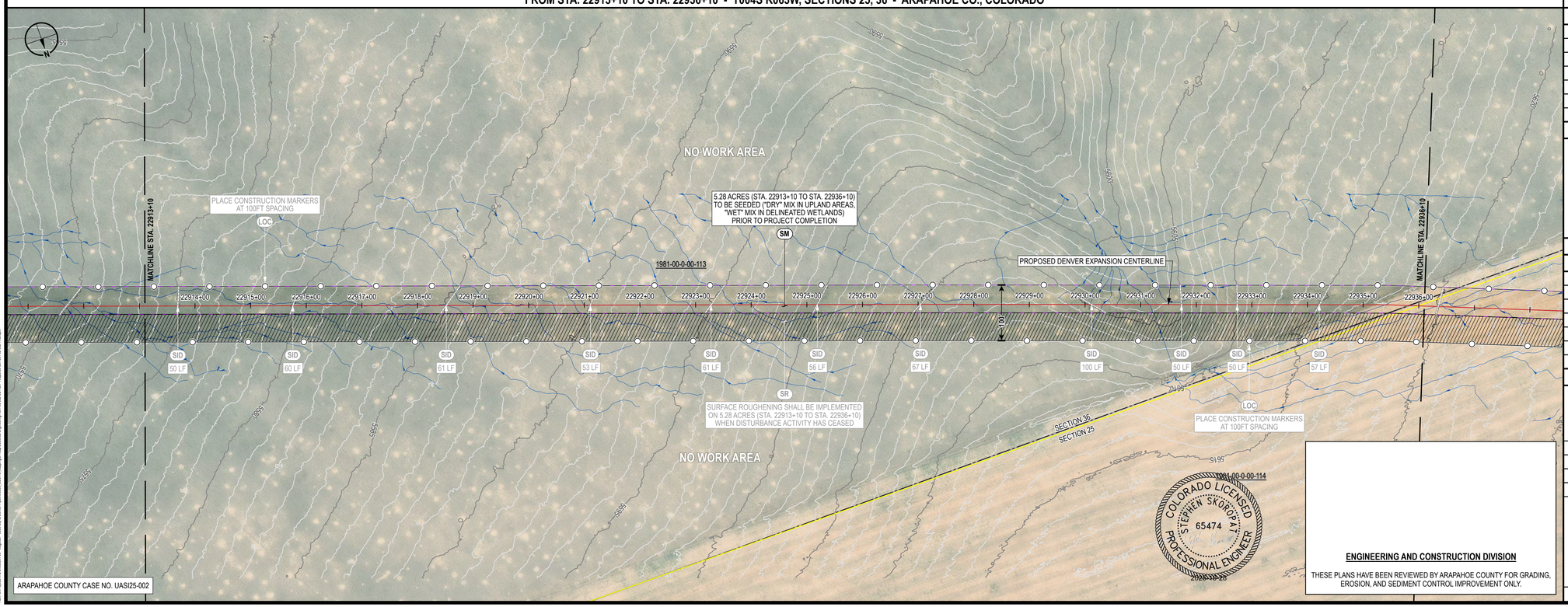
Xref: G:\Projects\70x_ONEOK\94-00 - Magellan - Scott City to Denver Pipeline\05[0] GEO-SS Mapping\01 Map Books\02 Engineering\1001-02-002-02 Plan - Arapahoe Co\1001-02-002-02 Final.xlsm

FROM STA. 22890+10 TO STA. 22913+10 - T004S R063W, T004S R062W, SECTIONS 31, 36 - ARAPAHOE CO., COLORADO



FROM STA. 22913+10 TO STA. 22936+10 - T004S R063W, SECTIONS 25, 36 - ARAPAHOE CO., COLORADO



ARAPAHOE COUNTY CASE NO. UASI25-002

ENGINEERING AND CONSTRUCTION DIVISION

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CONTROL MEASURE NOTES

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- (SF) SILT FENCE
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0 100 200 400 US FEET

TRANSVERSE MERCATOR, NAD 1983 BLM ZONE 13N, U.S. FOOT

BILL OF MATERIALS

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CP FEATURE DATA

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APPROVED BY:	SS	SHEET:	69 OF 95

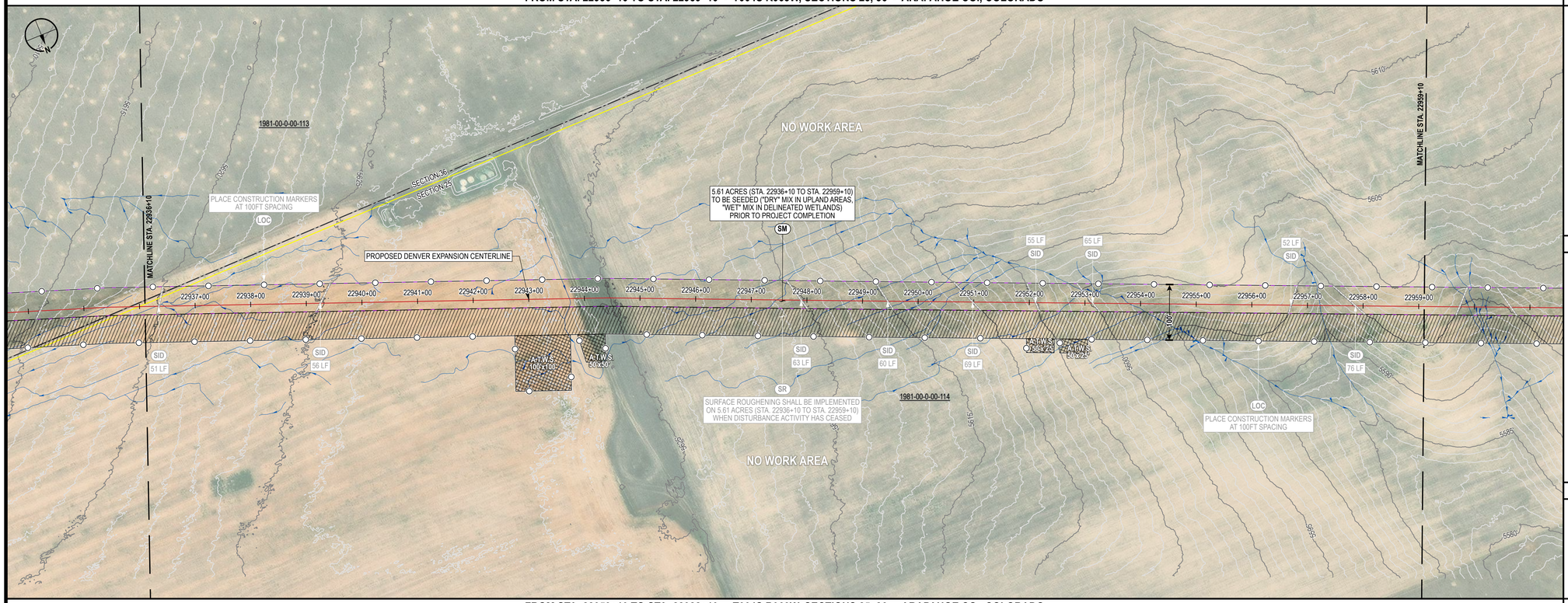
FINAL GRADING, EROSION AND SEDIMENT CONTROL PLAN ARAPAHOE COUNTY, COLORADO

FROM STA. 22890+10 TO STA 22936+10

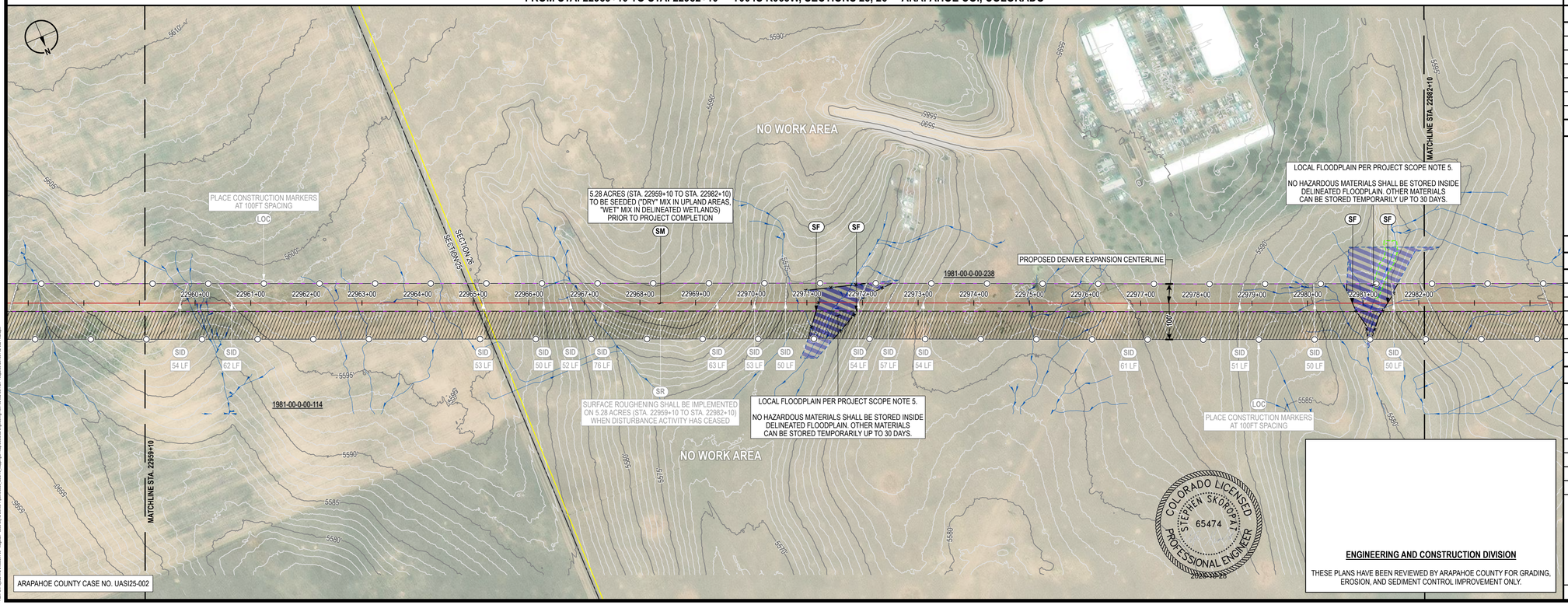
DWG. NUMBER:	1001-02-002-021-F	REVISION:	2

Xref: G:\Projects\70s_ONEOK\04-Mapping\01-GIS\16-Mapping\01 Map Books\02 Engineering\1001-02-002-01.mxd - Map Date: 10/24/2025 12:02:57 PM - Author: DS

FROM STA. 22936+10 TO STA. 22959+10 - T004S R063W, SECTIONS 25, 36 - ARAPAHOE CO., COLORADO



FROM STA. 22959+10 TO STA. 22982+10 - T004S R063W, SECTIONS 25, 26 - ARAPAHOE CO., COLORADO



ARAPAHOE COUNTY CASE NO. UASI25-002

CONTROL MEASURE NOTES

- (VTC) VEHICLE TRACKING CONTROL
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0 100 200 400 US FEET

TRANSVERSE MERCATOR, NAD 1983 BLM ZONE 13N, U.S. FOOT

BILL OF MATERIALS

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CP FEATURE DATA

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DENVER EXPANSION PROJECT - SCOTT CITY TO DENVER PIPELINE

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APPROVED BY:	SS	SHEET:	70 OF 95

COLORADO LICENSED
STEPHEN SKOROPAT
65474
PROFESSIONAL ENGINEER
2025.10.28

ENGINEERING AND CONSTRUCTION DIVISION

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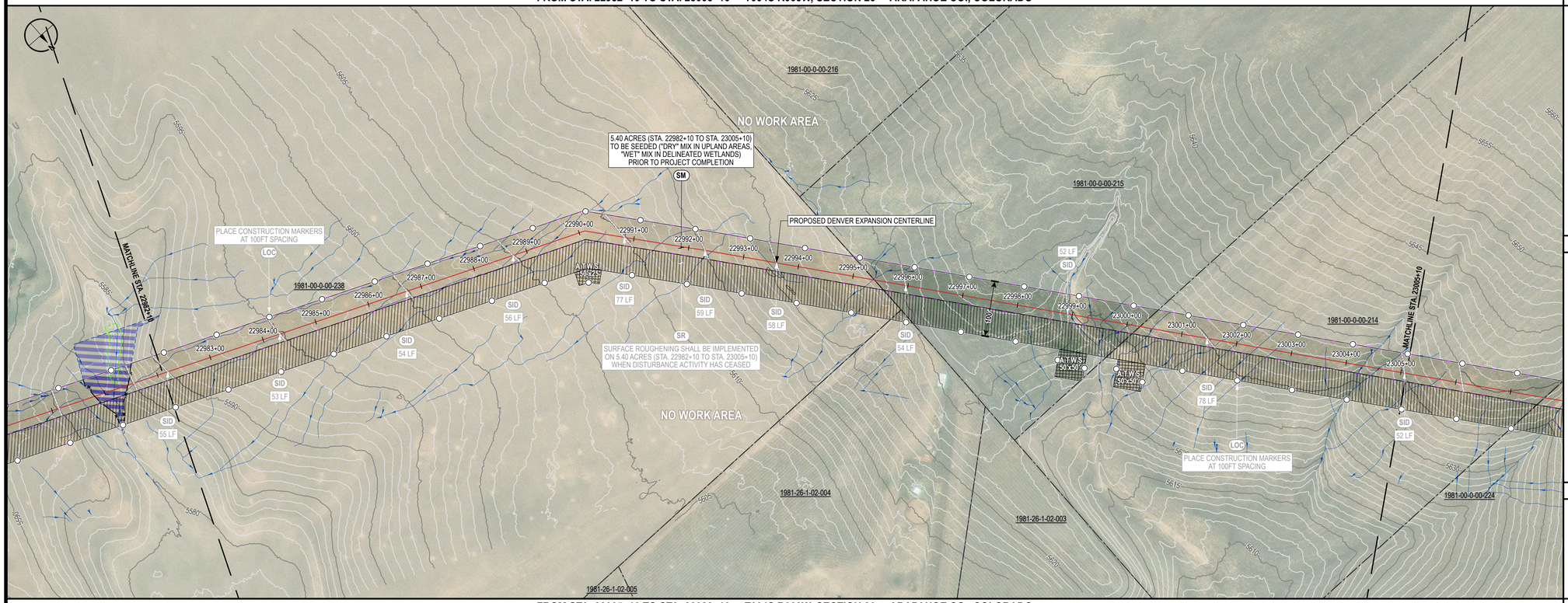
FINAL GRADING, EROSION AND SEDIMENT CONTROL PLAN ARAPAHOE COUNTY, COLORADO

FROM STA. 22936+10 TO STA 22982+10

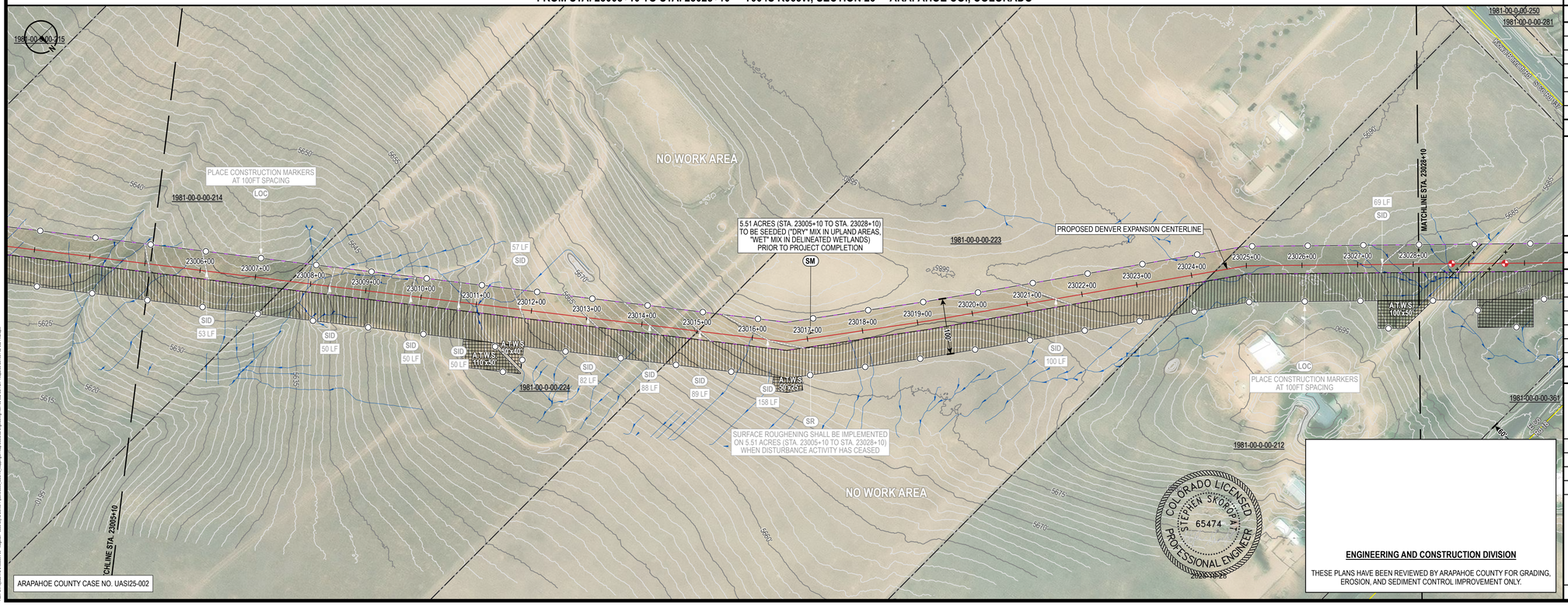
DWG. NUMBER:	1001-02-002-022-F	REVISION:	2

Xref: G:\Projects\70k_ONEOK\044-00 - Magellan - Scott City to Denver Pipeline\WORK_GIS\10-Maps\mxd\1 Map Books\02 Engineering\1001-02-002-02 Plan - Arapahoe Co\1001-02-002-02 Plan.aprx

FROM STA. 22982+10 TO STA. 23005+10 - T004S R063W, SECTION 26 - ARAPAHOE CO., COLORADO



FROM STA. 23005+10 TO STA. 23028+10 - T004S R063W, SECTION 26 - ARAPAHOE CO., COLORADO



ARAPAHOE COUNTY CASE NO. UASI25-002

CONTROL MEASURE NOTES

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TRANSVERSE MERCATOR, NAD 1983 BLM ZONE 13N, U.S. FOOT

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COLORADO LICENSED
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2025.10.28

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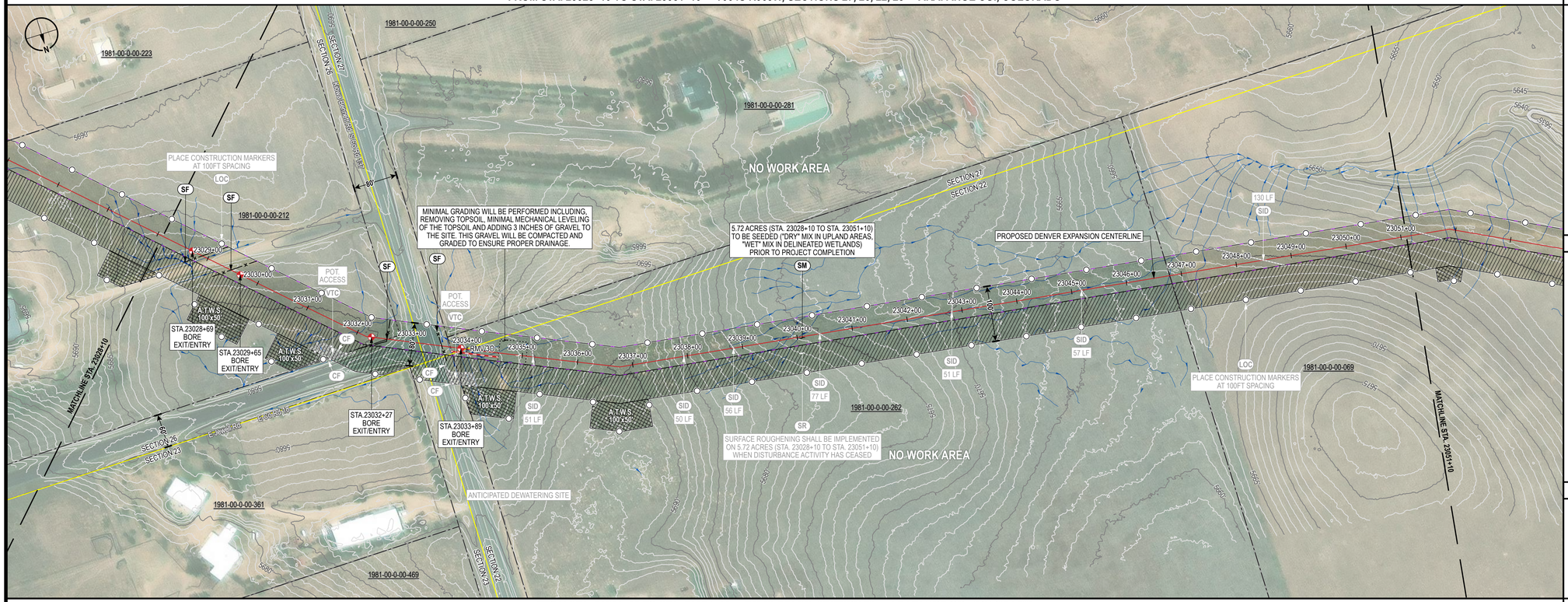
FINAL GRADING, EROSION AND SEDIMENT CONTROL PLAN ARAPAHOE COUNTY, COLORADO

FROM STA. 22982+10 TO STA 23028+10

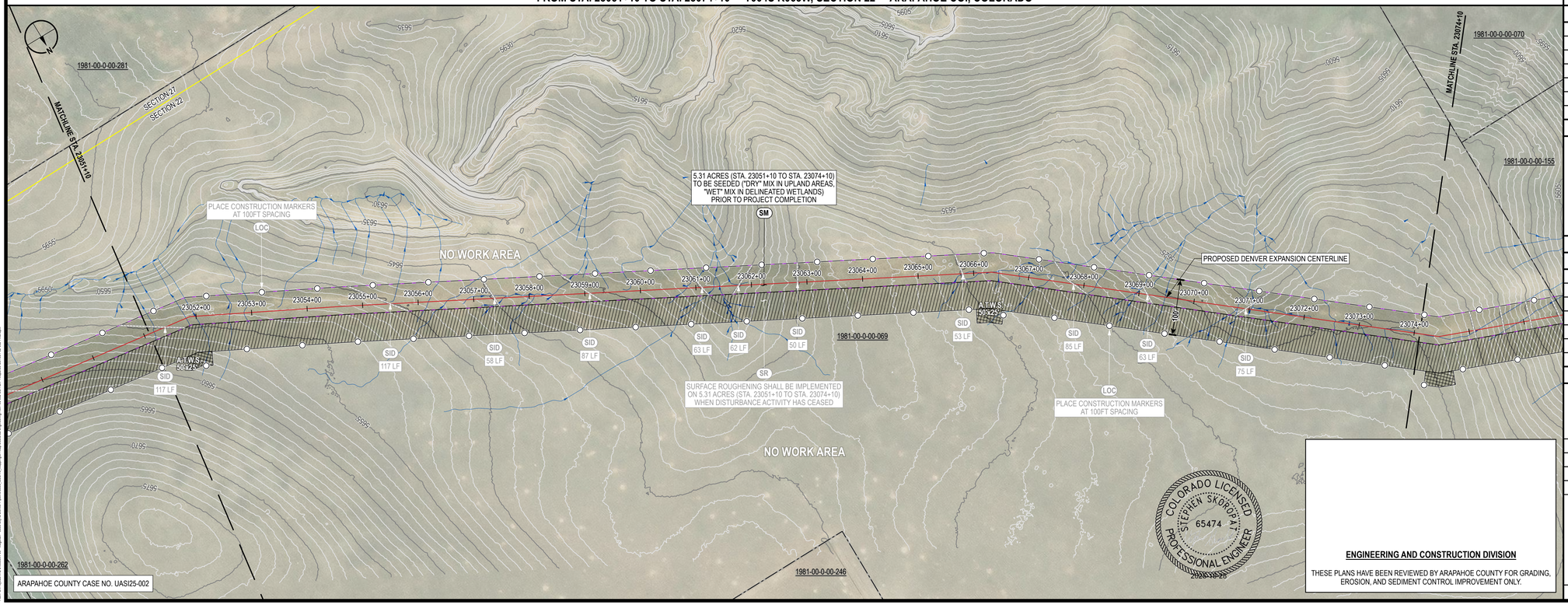
DWG. NUMBER:	1001-02-002-023-F	REVISION:	2

Path: G:\Projects\ONEOK_1001\0004-00 - Magellan - Scott City to Denver Pipeline\0002_GEO\16_Mapping\01 Map Books\02 Engineering\1001-02-002-EC Plan - Alignment Sht 001-002.mxd admin

FROM STA. 23028+10 TO STA. 23051+10 - T004S R063W, SECTIONS 27, 26, 22, 23 - ARAPAHOE CO., COLORADO



FROM STA. 23051+10 TO STA. 23074+10 - T004S R063W, SECTION 22 - ARAPAHOE CO., COLORADO



ARAPAHOE COUNTY CASE NO. UASI25-002

CONTROL MEASURE NOTES

- (VTC) VEHICLE TRACKING CONTROL
- (SR) SURFACE ROUGHENING
- (TSC) TEMPORARY STREAM CROSSING
- (SF) SILT FENCE
- (CF) CONSTRUCTION FENCE
- (ECB) EROSION CONTROL BLANKET INSTALLATION (CURLEX EXCELSIOR)
- (SID) SLOPE INTERCEPT DITCH
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- FEMA FLOODPLAIN
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0 100 200 400 US FEET

TRANSVERSE MERCATOR, NAD 1983 BLM ZONE 13N, U.S. FOOT

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DENVER EXPANSION PROJECT - SCOTT CITY TO DENVER PIPELINE

ONEOK
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EXP Energy Services Inc.
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11330 Clay Road, Suite 550
Houston, TX 77041, USA

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COLORADO LICENSED STEPHEN SKOROJ 65474 PROFESSIONAL ENGINEER 2025-10-28

ENGINEERING AND CONSTRUCTION DIVISION

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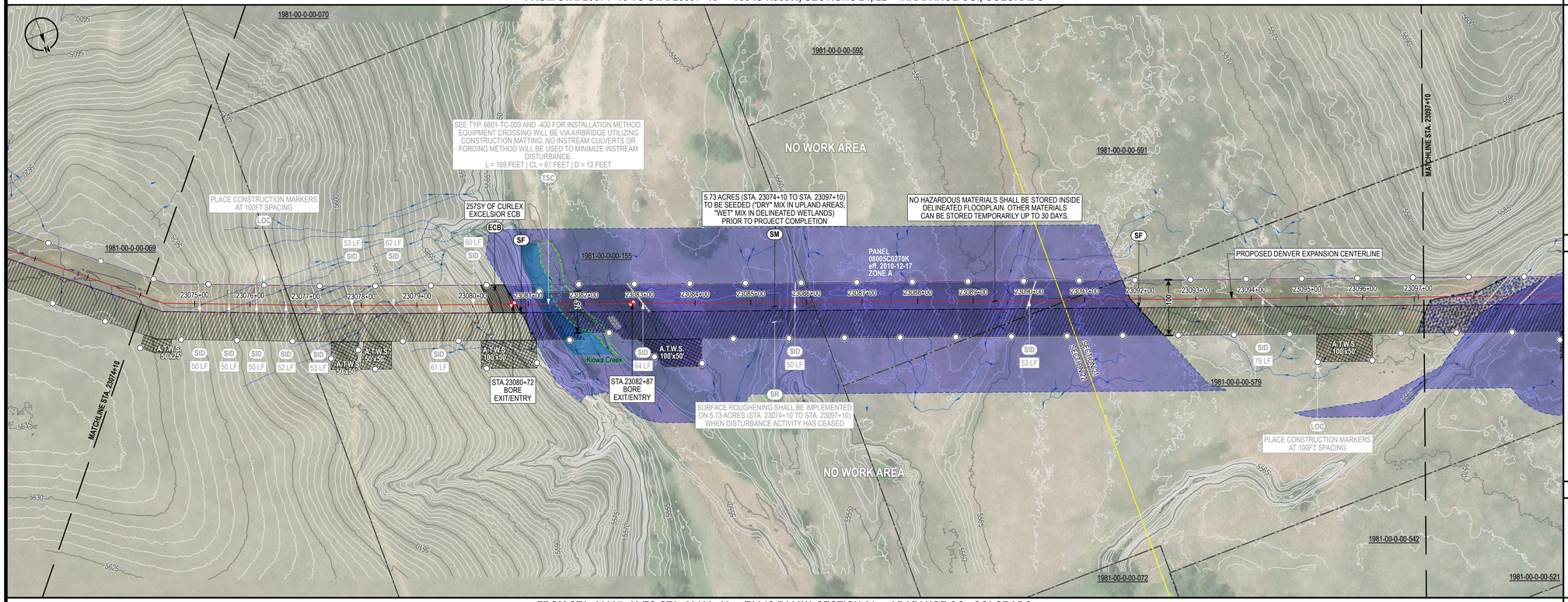
FINAL GRADING, EROSION AND SEDIMENT CONTROL PLAN ARAPAHOE COUNTY, COLORADO

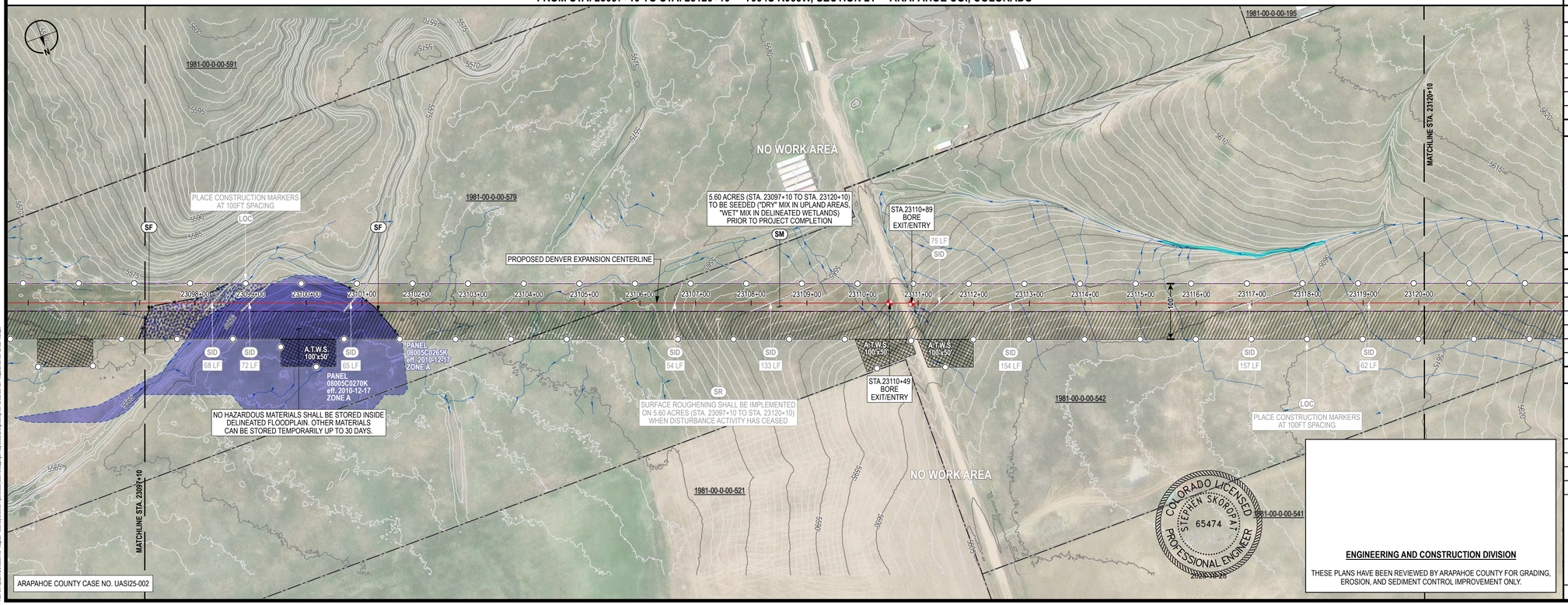
FROM STA. 23028+10 TO STA 23074+10

DWG. NUMBER:	1001-02-002-024-F	REVISION:	2

FROM STA. 23074+10 TO STA. 23097+10 - T004S R063W, SECTIONS 21, 22 - ARAPAHOE CO., COLORADO



FROM STA. 23097+10 TO STA. 23120+10 - T004S R063W, SECTION 21 - ARAPAHOE CO., COLORADO



ARAPAHOE COUNTY CASE NO. UASI25-002

CONTROL MEASURE NOTES

- (VTC) VEHICLE TRACKING CONTROL
- (SR) SURFACE ROUGHENING
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0 100 200 400 US FEET

TRANSVERSE MERCATOR, NAD 1983 BLM ZONE 13N, U.S. FOOT

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COLORADO LICENSED STEPHEN SKOROJAT 65474 PROFESSIONAL ENGINEER 2025-10-28

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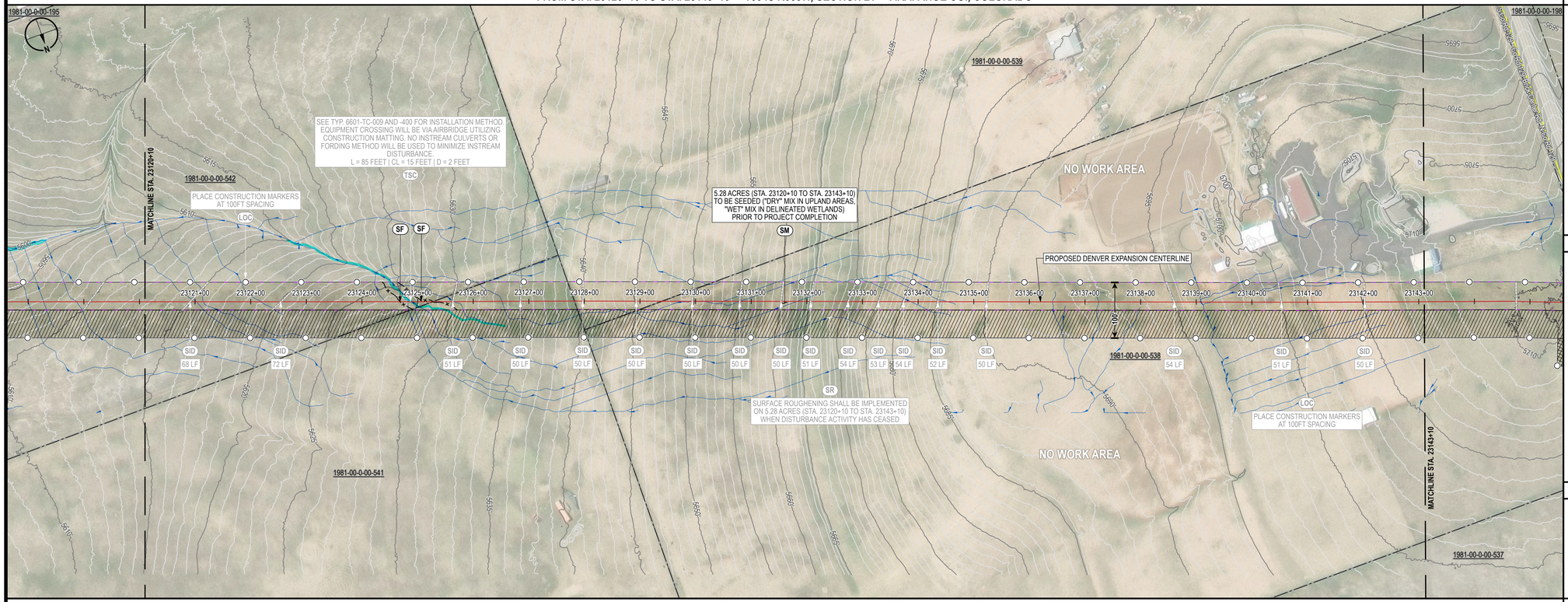
FINAL GRADING, EROSION AND SEDIMENT CONTROL PLAN ARAPAHOE COUNTY, COLORADO

FROM STA. 23074+10 TO STA 23120+10

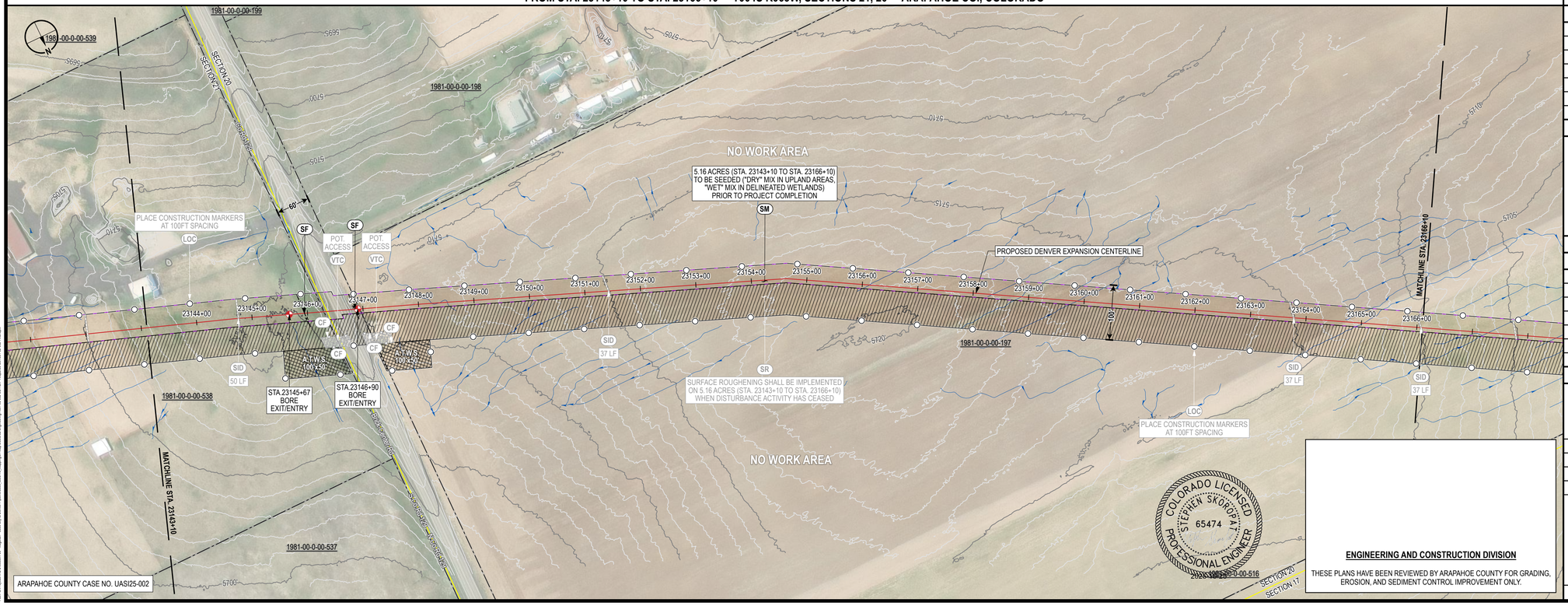
DWG. NUMBER: 1001-02-002-025-F REVISION: 2

Xref: G:\Projects\TSL_ONEOK\04-GIS - Mapping - Shell Only to Deliver Pipeline\MXD_GIS\10. Mapping\01 Map Books\02 Engineering\1001-02-002-02.mxd - Published 10/10/2025 02:28:27 PM by adam

FROM STA. 23120+10 TO STA. 23143+10 - T004S R063W, SECTION 21 - ARAPAHOE CO., COLORADO



FROM STA. 23143+10 TO STA. 23166+10 - T004S R063W, SECTIONS 21, 20 - ARAPAHOE CO., COLORADO



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0 100 200 400 US FEET

TRANSVERSE MERCATOR, NAD 1983 BLM ZONE 13N, U.S. FOOT

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COLORADO LICENSED
STEPHEN SKOROPAT
65474
PROFESSIONAL ENGINEER

ENGINEERING AND CONSTRUCTION DIVISION

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FINAL GRADING, EROSION AND SEDIMENT CONTROL PLAN ARAPAHOE COUNTY, COLORADO

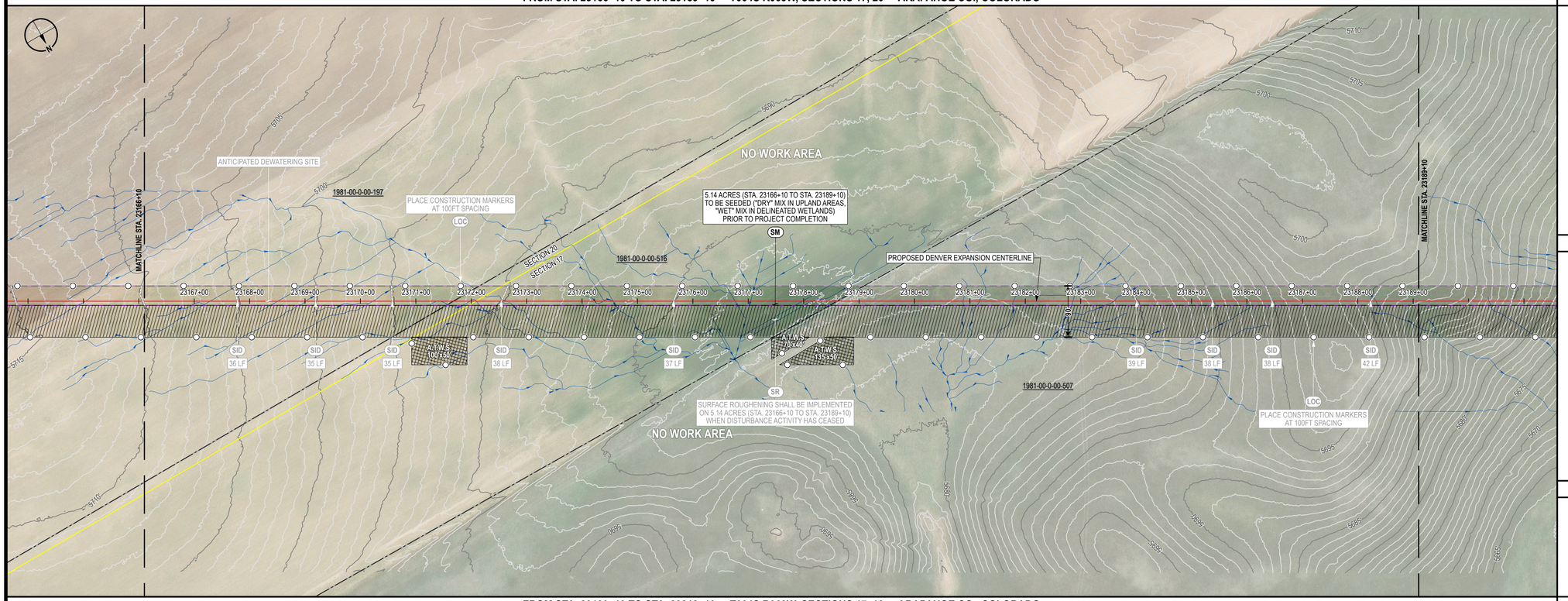
FROM STA. 23120+10 TO STA 23166+10

DWG. NUMBER: 1001-02-002-026-F

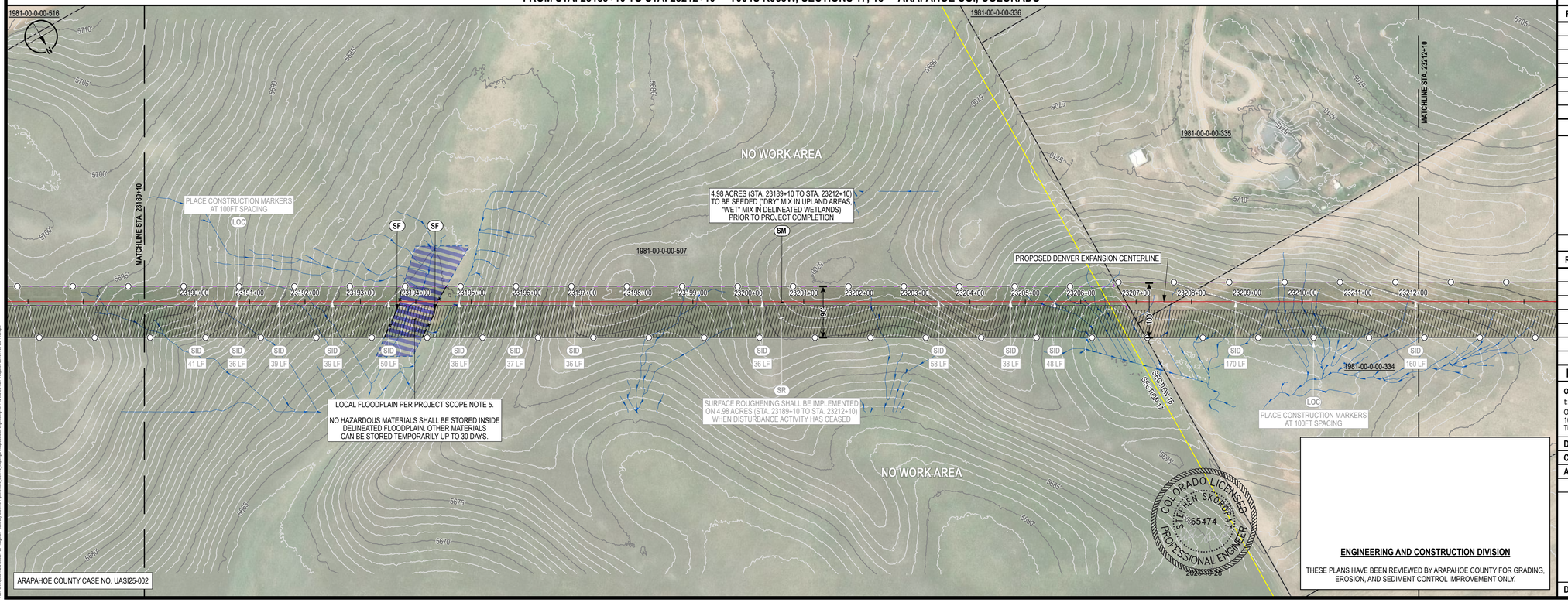
REVISION: 2

Xref: G:\Projects\TSL_ONEOK\94-GE - Magellan - Scott City to Denver Pipeline\WSP_GIS\15. Mapping\01 Map Books\02 Engineering\1001-02-002-02 Plan - Alignment Sht\1001-02-002-02 Plan alignment

FROM STA. 23166+10 TO STA. 23189+10 - T004S R063W, SECTIONS 17, 20 - ARAPAHOE CO., COLORADO



FROM STA. 23189+10 TO STA. 23212+10 - T004S R063W, SECTIONS 17, 18 - ARAPAHOE CO., COLORADO



CONTROL MEASURE NOTES

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0 100 200 400 US FEET

TRANSVERSE MERCATOR, NAD 1983 BLM ZONE 13N, U.S. FOOT

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COLORADO LICENSED
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65474
PROFESSIONAL ENGINEER
2025-10-28

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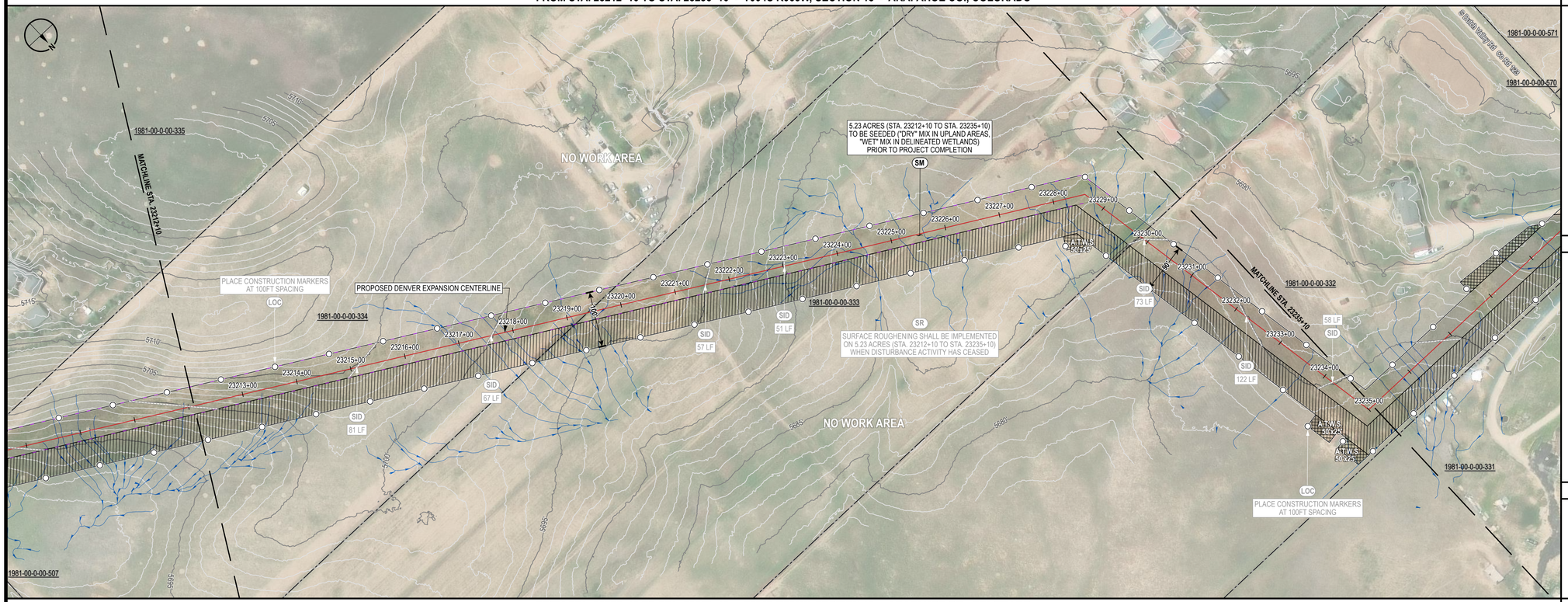
FINAL GRADING, EROSION AND SEDIMENT CONTROL PLAN ARAPAHOE COUNTY, COLORADO

FROM STA. 23166+10 TO STA 23212+10

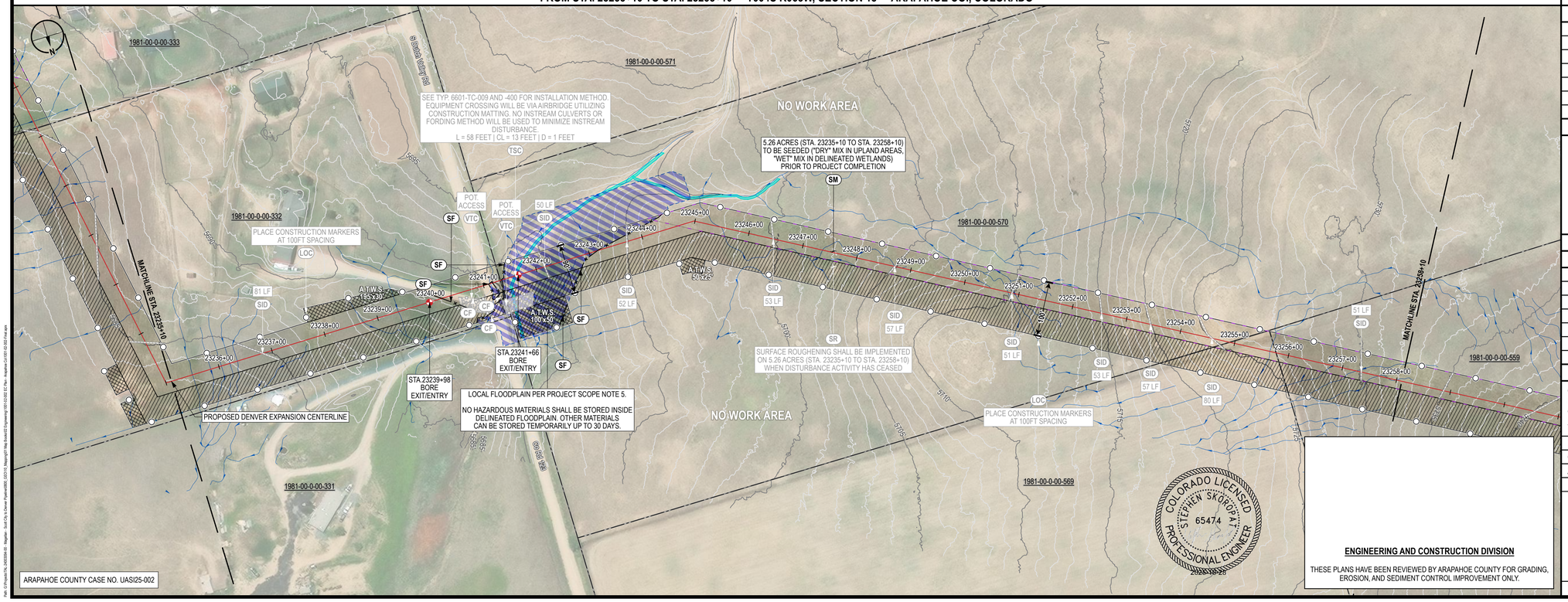
DWG. NUMBER:	1001-02-002-027-F	REVISION:	2

Xref: G:\Projects\Tilly_NG\0004\Civil - Magellan - Scott City to Denver Pipeline\0002_GEO\16_Mapping\01 Map Books\02 Engineering\1001-02-002-027.dwg - Arapahoe Co\1001-02-002-27 Plan - Arapahoe Co.mxd

FROM STA. 23212+10 TO STA. 23235+10 - T004S R063W, SECTION 18 - ARAPAHOE CO., COLORADO



FROM STA. 23235+10 TO STA. 23258+10 - T004S R063W, SECTION 18 - ARAPAHOE CO., COLORADO



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COLORADO LICENSED STEPHEN SKOROPAT 65474 PROFESSIONAL ENGINEER 2025-10-28

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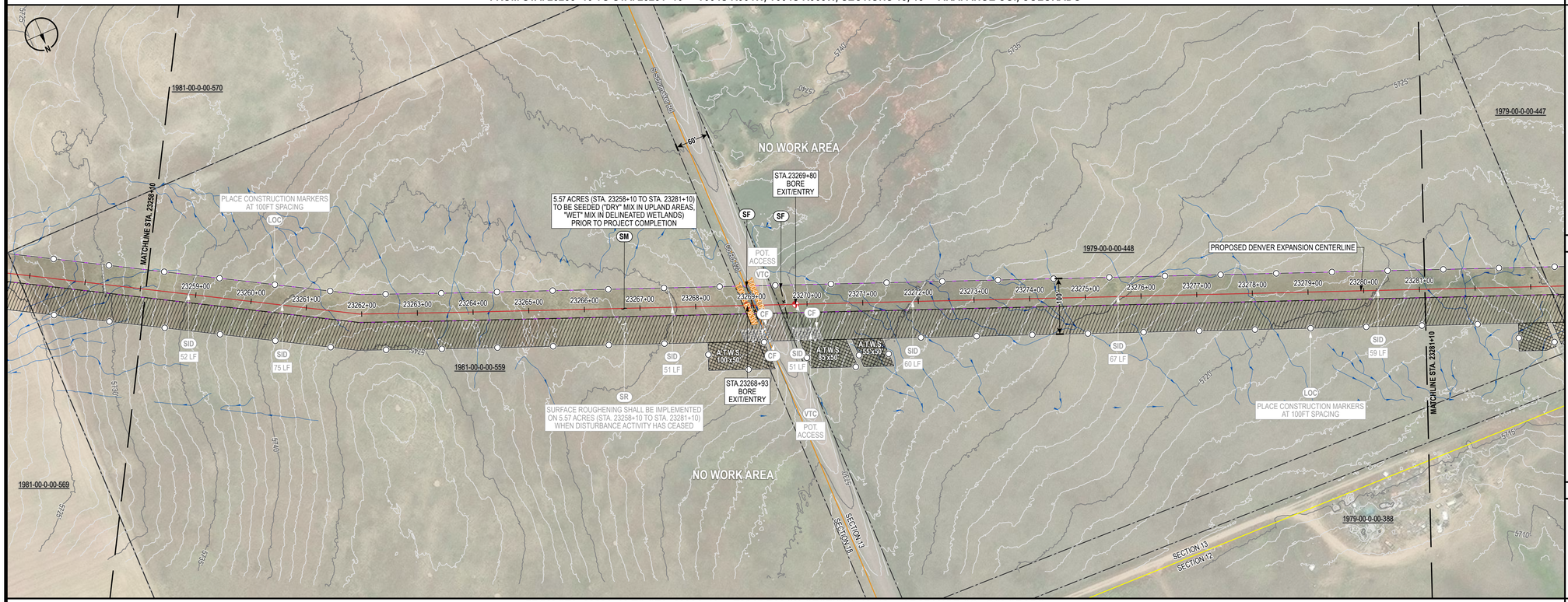
FINAL GRADING, EROSION AND SEDIMENT CONTROL PLAN ARAPAHOE COUNTY, COLORADO

FROM STA. 23212+10 TO STA 23258+10

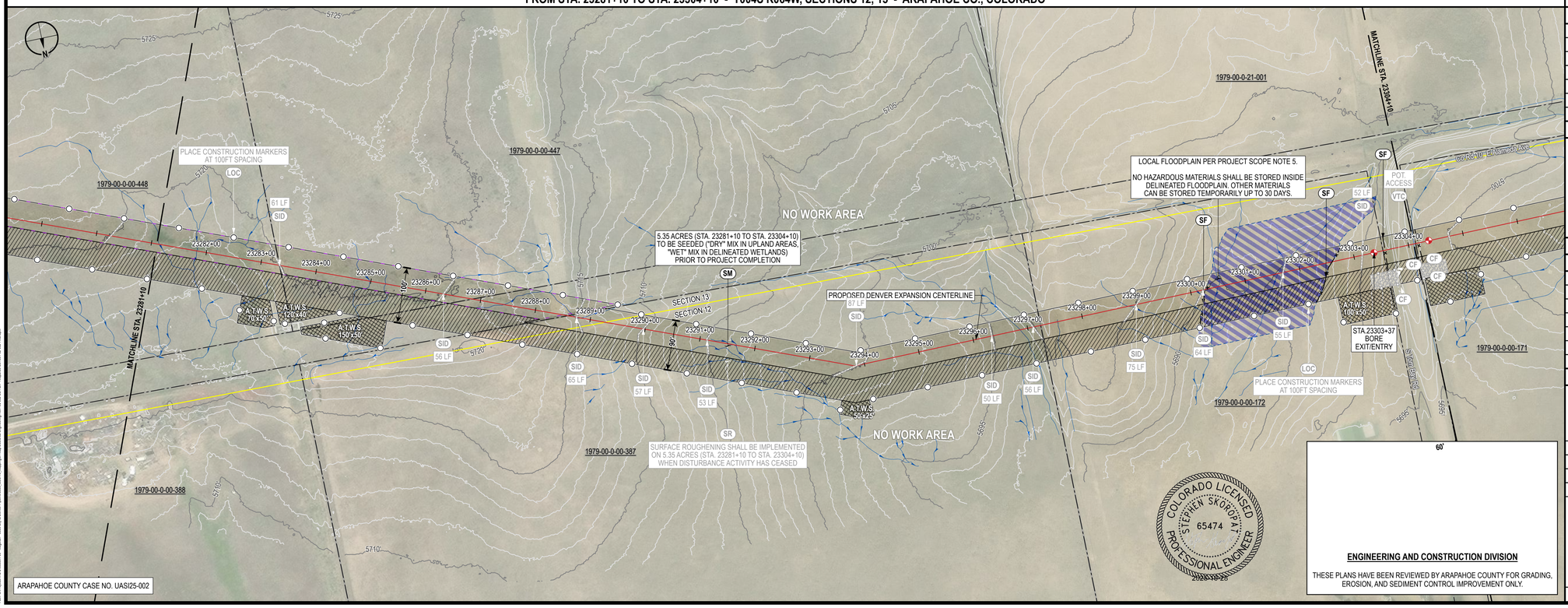
DWG. NUMBER:	1001-02-002-028-F	REVISION:	2

Xref: G:\Projects\ONL_NG\0004-00 - Magellan - Scott City to Denver Pipeline\0002_GEO\16 Mapping\01 Map Books\02 Engineering\1001-02-002-02 Plan - Arapahoe Co\1001-02-002-02 Plan.dwg

FROM STA. 23258+10 TO STA. 23281+10 - T004S R064W, T004S R063W, SECTIONS 18, 13 - ARAPAHOE CO., COLORADO



FROM STA. 23281+10 TO STA. 23304+10 - T004S R064W, SECTIONS 12, 13 - ARAPAHOE CO., COLORADO



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- ACCESS ROAD
- CONSTRUCTION MARKER
- SLOPE INTERCEPT DITCH
- SILT FENCE
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- TOWNSHIP BOUNDARY
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0 100 200 400 US FEET

TRANSVERSE MERCATOR, NAD 1983 BLM ZONE 13N, U.S. FOOT

BILL OF MATERIALS

REFERENCE DRAWINGS

REF.	DWG. NUMBER	DWG. TITLE

CP FEATURE DATA

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DENVER EXPANSION PROJECT - SCOTT CITY TO DENVER PIPELINE

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MAGELLAN MIDSTREAM PARTNERS

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11330 Clay Road, Suite 550
Houston, TX 77041, USA

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COLORADO LICENSED
STEPHEN SKOROJAT
65474
PROFESSIONAL ENGINEER
2025-10-28

ENGINEERING AND CONSTRUCTION DIVISION

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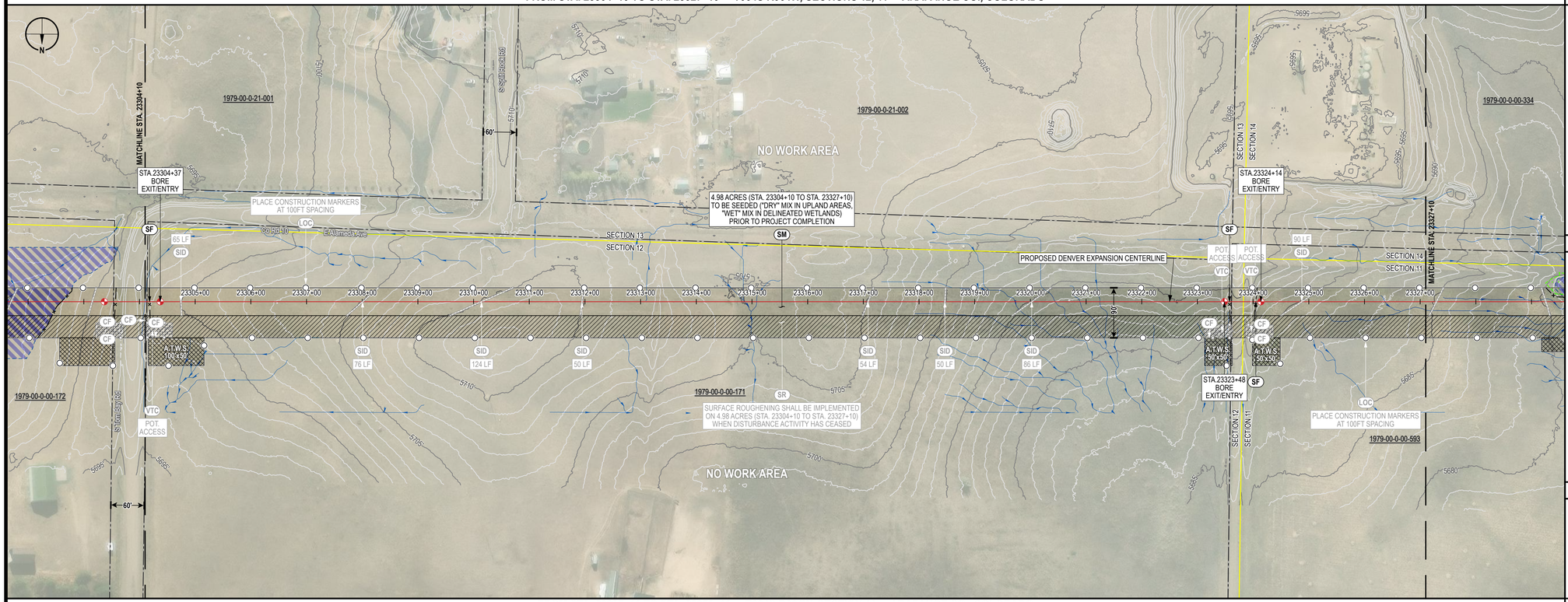
FINAL GRADING, EROSION AND SEDIMENT CONTROL PLAN ARAPAHOE COUNTY, COLORADO

FROM STA. 23258+10 TO STA 23304+10

DWG. NUMBER:	1001-02-002-029-F	REVISION:	2

Xref: G:\Projects\TSA_24\02004-04 - Magellan - Draft Tie In Denver Pipeline\0002 GEO\16 Mapping\01 Map Books\02 Engineering\1001-02-002 EC Plan - Arapahoe Co\1001-02-002 Final.mxd

FROM STA. 23304+10 TO STA. 23327+10 - T004S R064W, SECTIONS 12, 11 - ARAPAHOE CO., COLORADO



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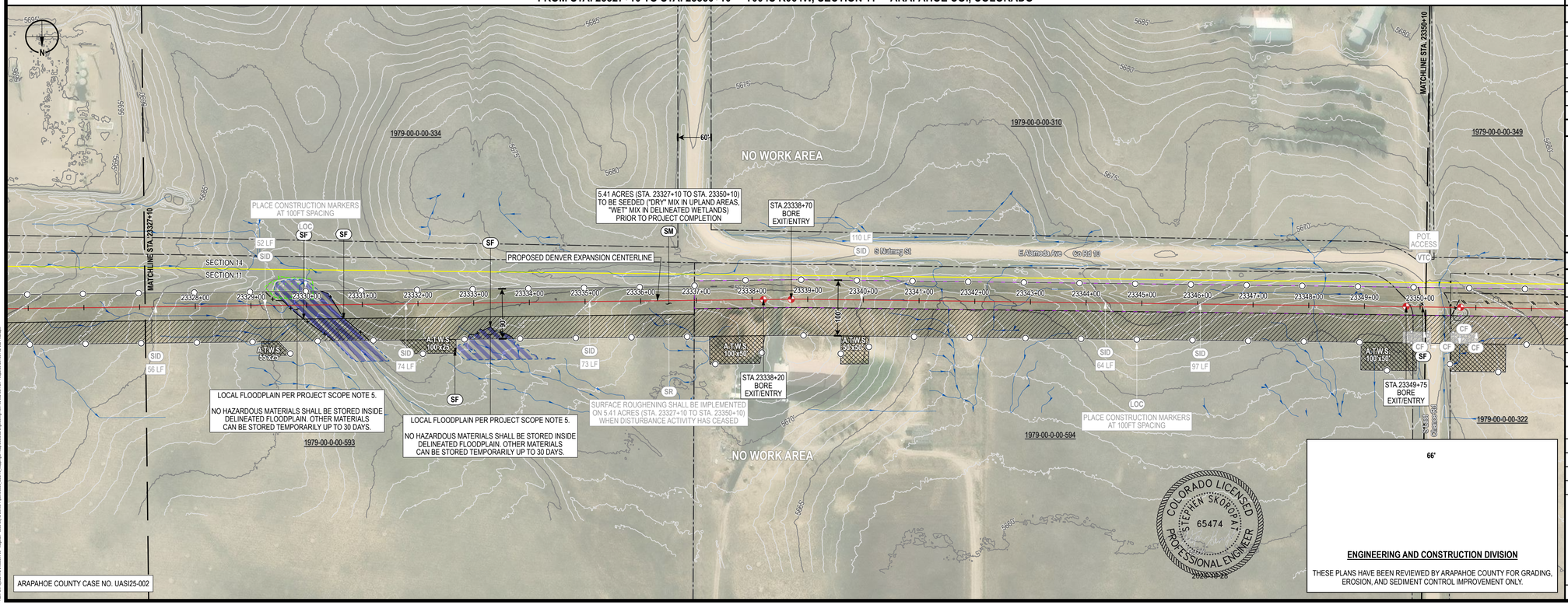

ARAPAHOE COUNTY CASE NO. UASI25-002

CONTROL MEASURE NOTES

- (VTC) VEHICLE TRACKING CONTROL
- (SR) SURFACE ROUGHENING
- (TSC) TEMPORARY STREAM CROSSING
- (SF) SILT FENCE
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- (ECB) EROSION CONTROL BLANKET INSTALLATION (CURLEX EXCELSIOR)
- (SID) SLOPE INTERCEPT DITCH
- (CM) CONSTRUCTION MARKER
- (SM) SEED AND MULCH
- (LOC) LIMITS OF CONSTRUCTION (SEE PROPOSED EASEMENT BOUNDARY / TEMPORARY WORKSPACE BOUNDARY BELOW)

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COLORADO LICENSED STEPHEN SKOROPAT 65474 PROFESSIONAL ENGINEER 2025-10-28

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FROM STA. 23304+10 TO STA 23350+10

DWG. NUMBER:	1001-02-002-030-F	REVISION:	2

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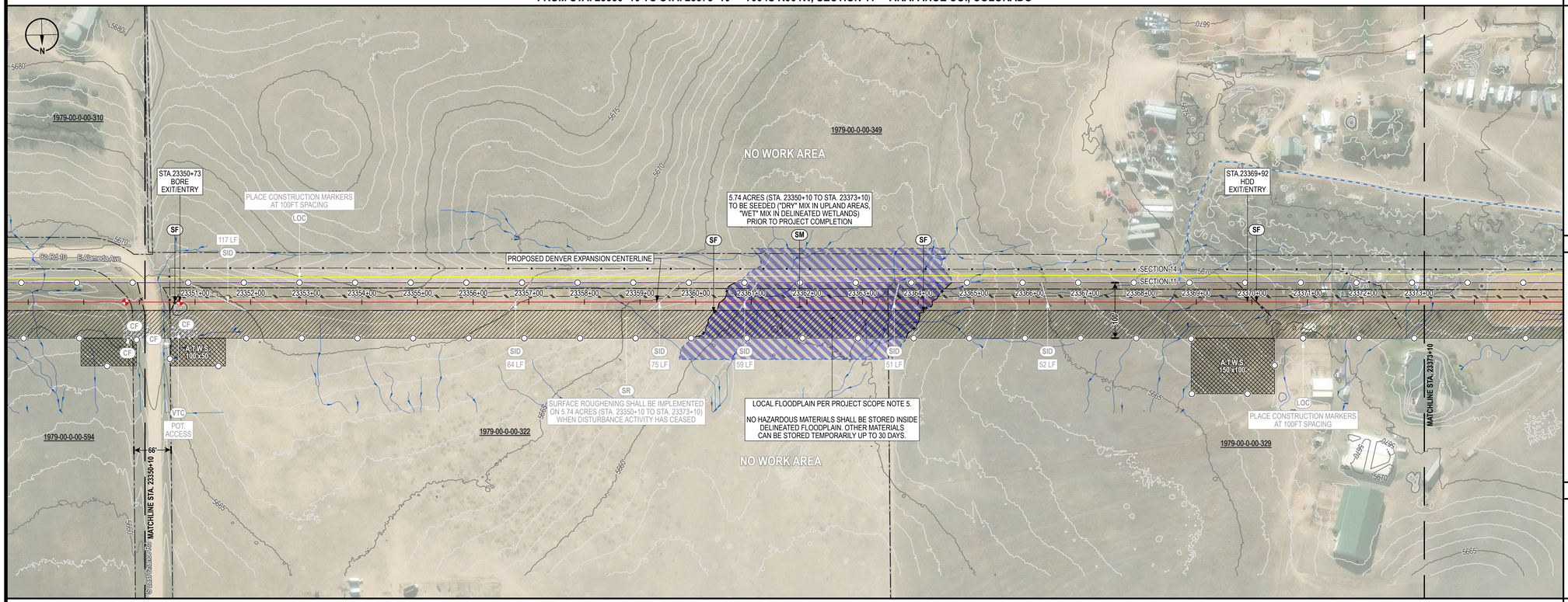

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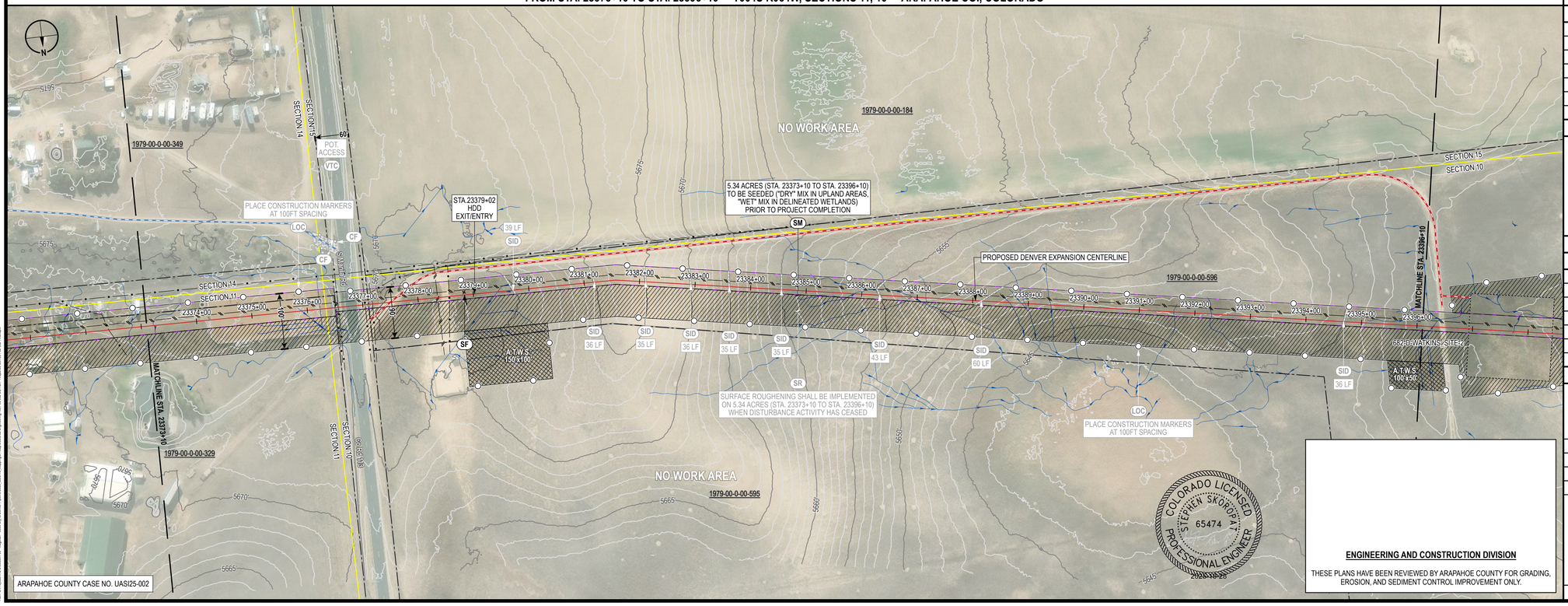

ARAPAHOE COUNTY CASE NO. UASI25-002

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TRANSVERSE MERCATOR, NAD 1983 BLM ZONE 13N, U.S. FOOT

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COLORADO LICENSED
STEPHEN SKOROPAT
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2025.10.28

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FINAL GRADING, EROSION AND SEDIMENT CONTROL PLAN ARAPAHOE COUNTY, COLORADO

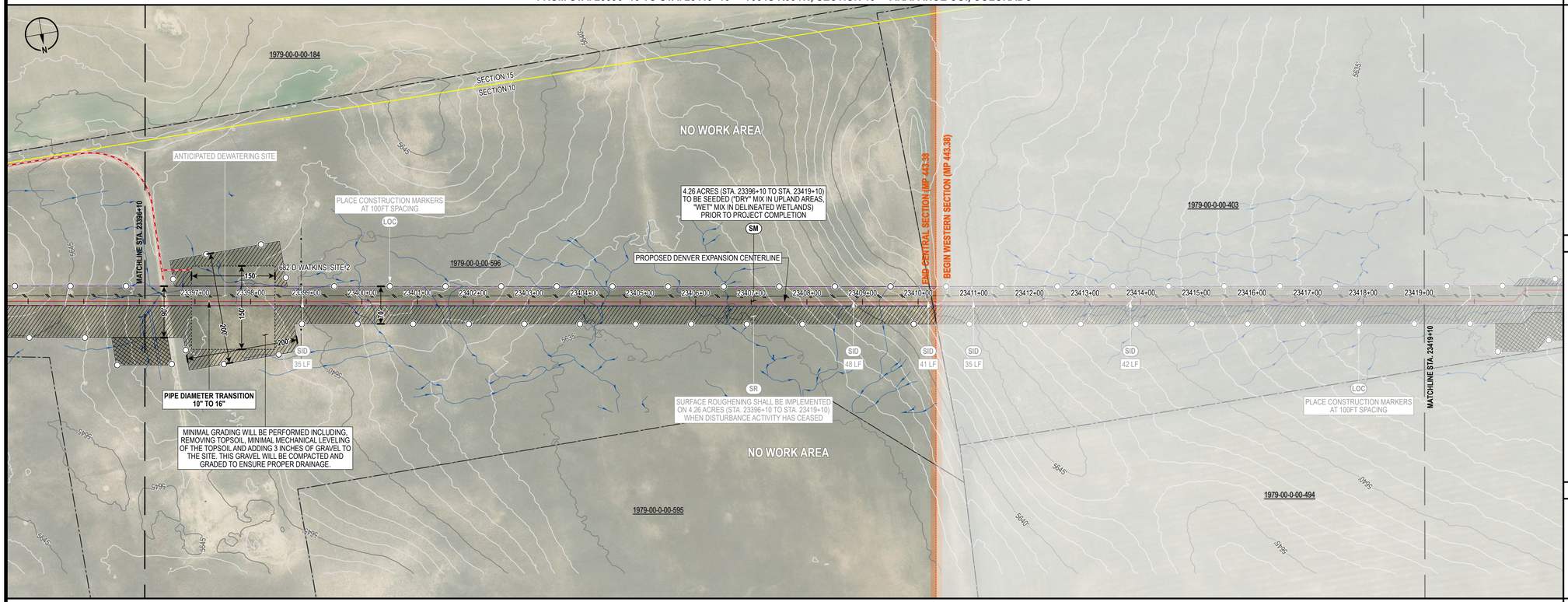
FROM STA. 23350+10 TO STA 23396+10

DWG. NUMBER: 1001-02-002-031-F

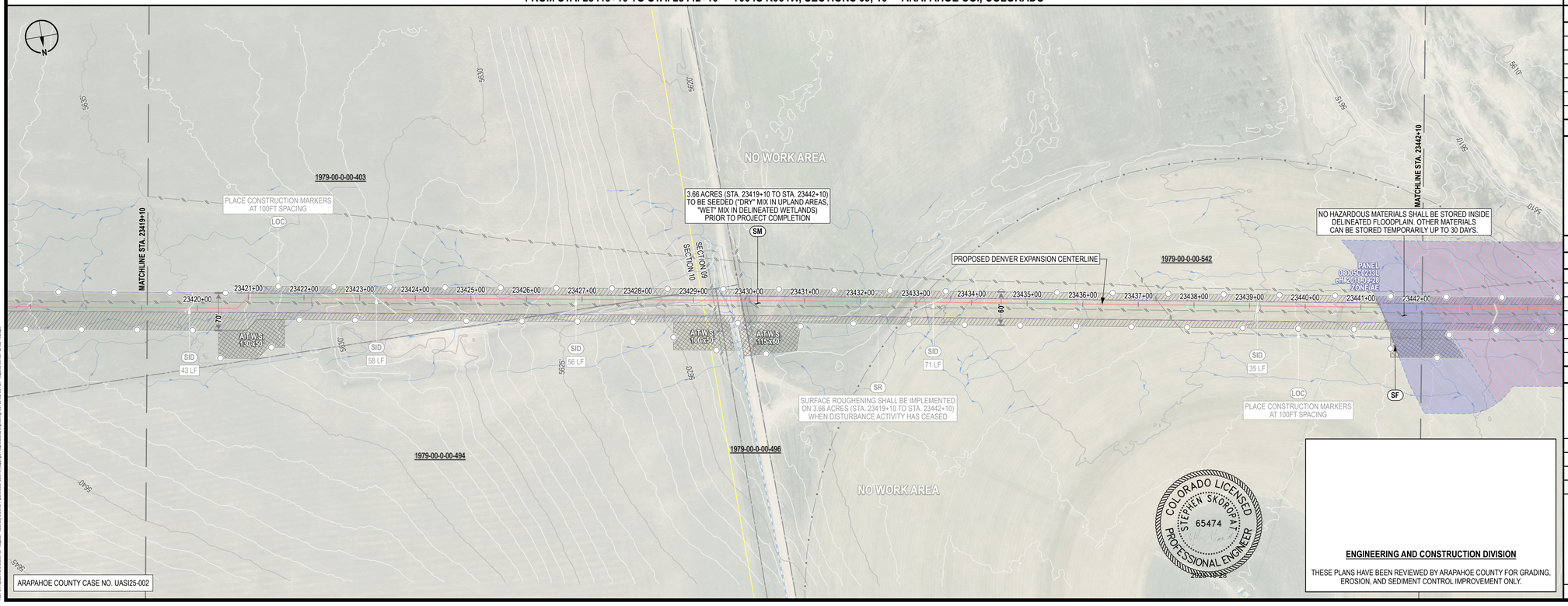
REVISION: 2

Xref: G:\Projects\70k_24003564-00 - Magellan - Scott City to Denver Pipeline\0800_GEO\16 Maps\Sheets\Engineering\1001-02-002-031.dwg - Attachment 2 of 2025-10-24 Plan - Attachment 2 of 2025-10-24 Plan.xref

FROM STA. 23396+10 TO STA. 23419+10 - T004S R064W, SECTION 10 - ARAPAHOE CO., COLORADO



FROM STA. 23419+10 TO STA. 23442+10 - T004S R064W, SECTIONS 09, 10 - ARAPAHOE CO., COLORADO



ARAPAHOE COUNTY CASE NO. UASI25-002

CONTROL MEASURE NOTES

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0 100 200 400 US FEET

TRANSVERSE MERCATOR, NAD 1983 BLM ZONE 13N, U.S. FOOT

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DENVER EXPANSION PROJECT - SCOTT CITY TO DENVER PIPELINE

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COLORADO LICENSED STEPHEN SKOROPAT 65474 PROFESSIONAL ENGINEER 2025-10-28

ENGINEERING AND CONSTRUCTION DIVISION

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FINAL GRADING, EROSION AND SEDIMENT CONTROL PLAN ARAPAHOE COUNTY, COLORADO

FROM STA. 23396+10 TO STA 23442+10

DWG. NUMBER: 1001-02-002-032-F REVISION: 2

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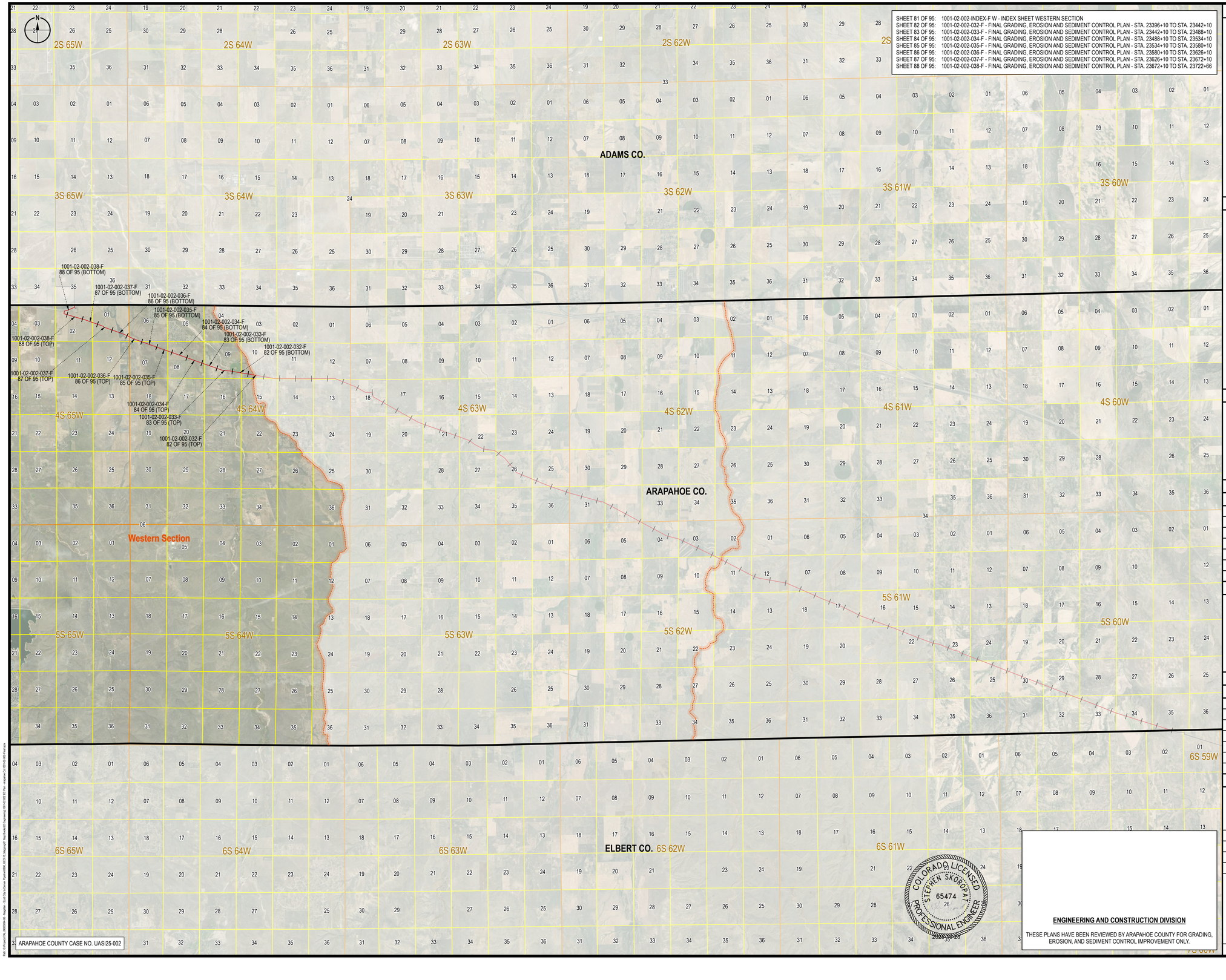

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SHEET 82 OF 95:	1001-02-002-032-F - FINAL GRADING, EROSION AND SEDIMENT CONTROL PLAN - STA. 23396+10 TO STA. 23442+10
SHEET 83 OF 95:	1001-02-002-033-F - FINAL GRADING, EROSION AND SEDIMENT CONTROL PLAN - STA. 23442+10 TO STA. 23488+10
SHEET 84 OF 95:	1001-02-002-034-F - FINAL GRADING, EROSION AND SEDIMENT CONTROL PLAN - STA. 23488+10 TO STA. 23534+10
SHEET 85 OF 95:	1001-02-002-035-F - FINAL GRADING, EROSION AND SEDIMENT CONTROL PLAN - STA. 23534+10 TO STA. 23580+10
SHEET 86 OF 95:	1001-02-002-036-F - FINAL GRADING, EROSION AND SEDIMENT CONTROL PLAN - STA. 23580+10 TO STA. 23626+10
SHEET 87 OF 95:	1001-02-002-037-F - FINAL GRADING, EROSION AND SEDIMENT CONTROL PLAN - STA. 23626+10 TO STA. 23672+10
SHEET 88 OF 95:	1001-02-002-038-F - FINAL GRADING, EROSION AND SEDIMENT CONTROL PLAN - STA. 23672+10 TO STA. 23722+66

CONTROL MEASURE NOTES

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0 5,000 10,000 20,000 US FEET

TRANSVERSE MERCATOR, NAD 1983 BLM ZONE 13N, U.S. FOOT

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COLORADO LICENSED
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ARAPAHOE COUNTY CASE NO. UASI25-002

FINAL GRADING, EROSION AND SEDIMENT CONTROL PLAN ARAPAHOE COUNTY, COLORADO

INDEX SHEET - WESTERN REGION

DWG. NUMBER:	1001-02-002-INDEX-F W	REVISION:	2

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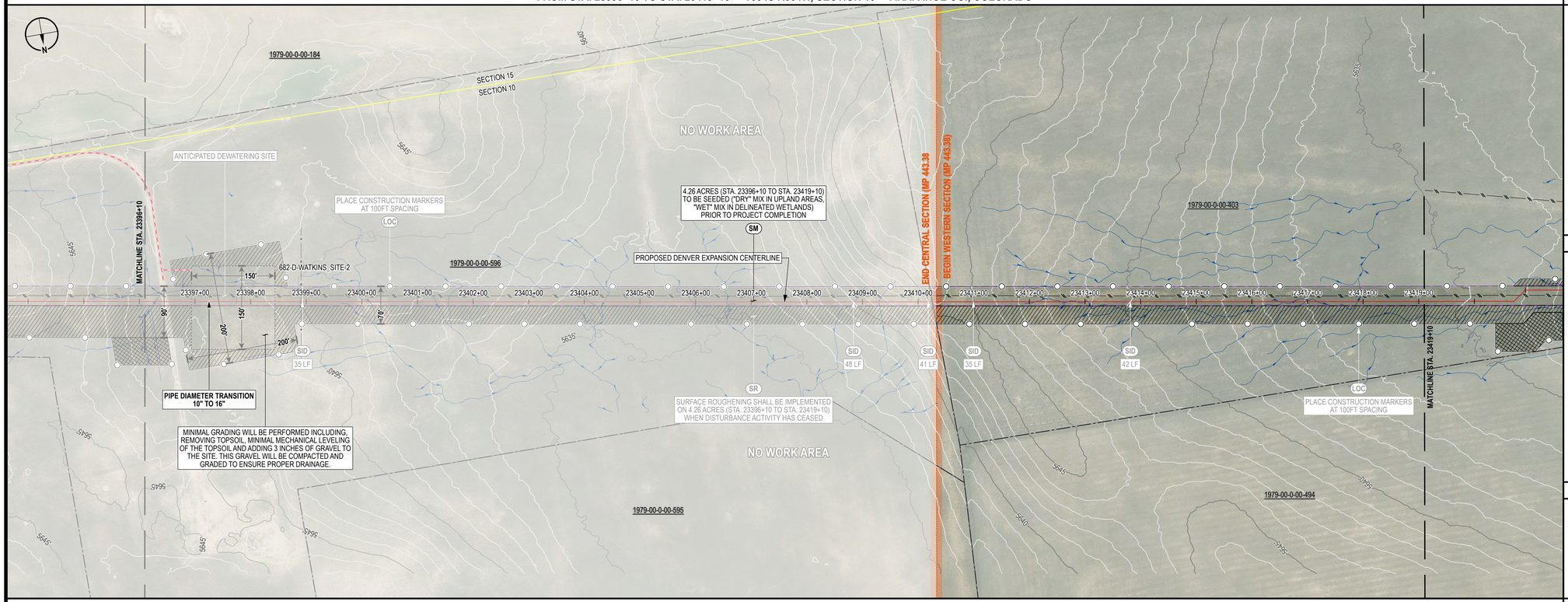

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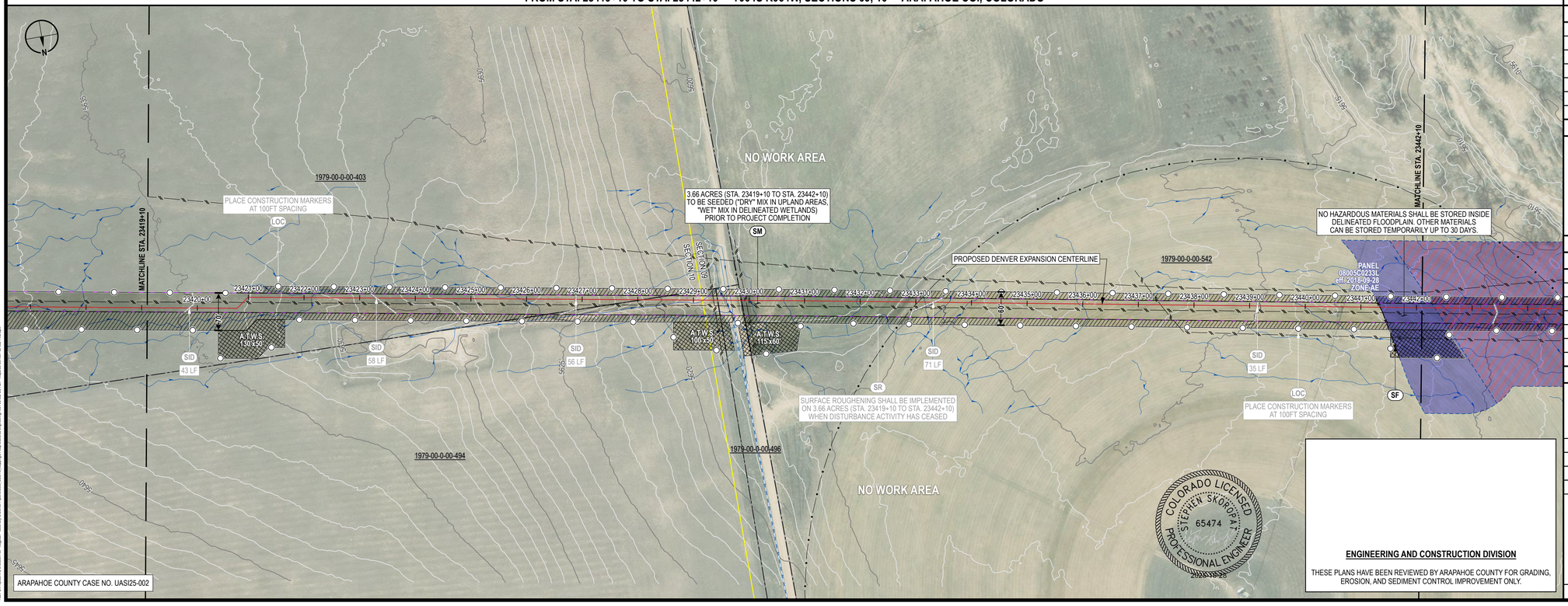

ARAPAHOE COUNTY CASE NO. UASI25-002

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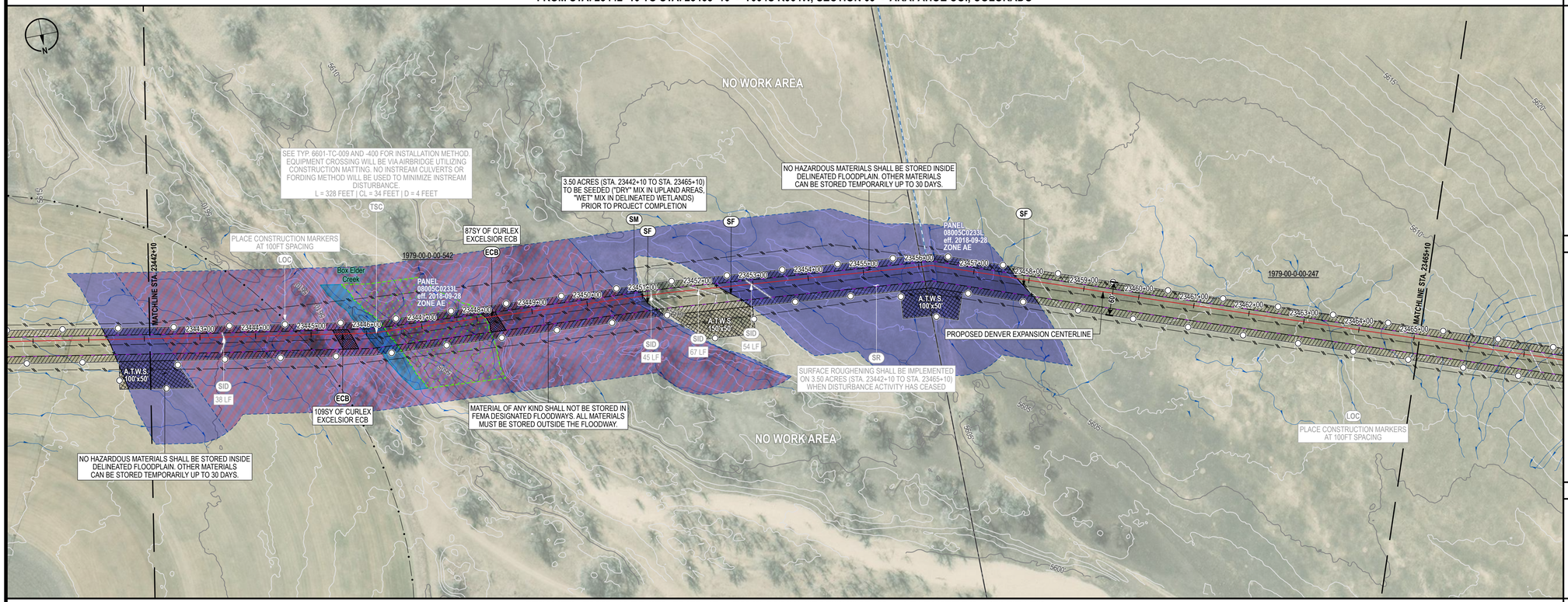
FINAL GRADING, EROSION AND SEDIMENT CONTROL PLAN ARAPAHOE COUNTY, COLORADO

FROM STA. 23396+10 TO STA 23442+10

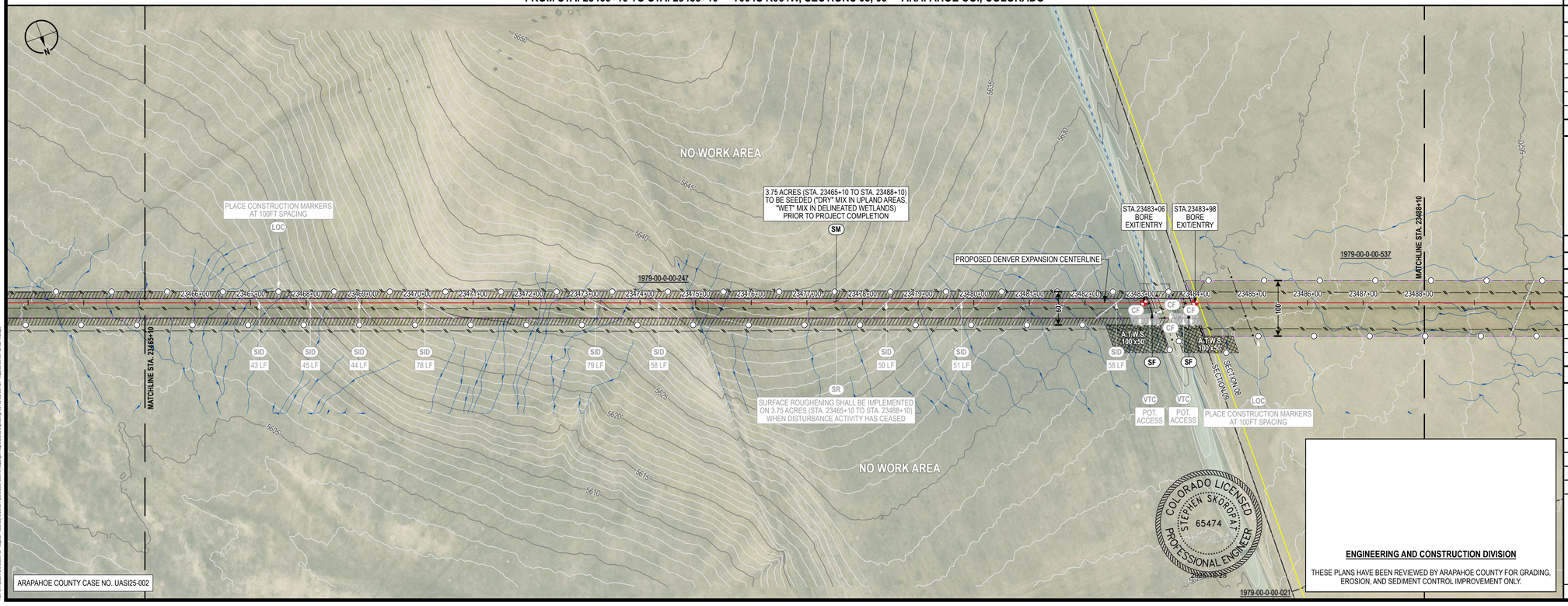
DWG. NUMBER: 1001-02-002-032-F REVISION: 2

Xref: G:\Projects\Tilo_ONEOK\Civil-3D - Magellan - Scott City to Denver Pipeline\REF_GEO\16 Mapping\01 Map Books\02 Engineering\1001-02-002-032-F.dwg - Arapahoe Co\1001-02-002-F Arap

FROM STA. 23442+10 TO STA. 23465+10 - T004S R064W, SECTION 09 - ARAPAHOE CO., COLORADO



FROM STA. 23465+10 TO STA. 23488+10 - T004S R064W, SECTIONS 08, 09 - ARAPAHOE CO., COLORADO



ARAPAHOE COUNTY CASE NO. UASI25-002

CONTROL MEASURE NOTES

- (VTC) VEHICLE TRACKING CONTROL
- (SR) SURFACE ROUGHENING
- (TSC) TEMPORARY STREAM CROSSING
- (SF) SILT FENCE
- (CF) CONSTRUCTION FENCE
- (ECB) EROSION CONTROL BLANKET INSTALLATION (CURLEX EXCELSIOR)
- (SID) SLOPE INTERCEPT DITCH
- (CM) CONSTRUCTION MARKER
- (SM) SEED AND MULCH
- (LOC) LIMITS OF CONSTRUCTION (SEE PROPOSED EASEMENT BOUNDARY / TEMPORARY WORKSPACE BOUNDARY BELOW)

(1) ATWS WILL HAVE RESTRICTED USE (NO TOP SOIL STORAGE, HAZARDOUS MATERIAL STORAGE, OR REFUELING WILL OCCUR).

(2) ITEMS IN LIGHT GRAY WERE INCLUDED IN THE INITIAL/INTERIM PLAN SET BUT HAVE BEEN REMOVED IN THE FINAL PLAN SET.

ENVIRONMENTAL NOTES / LEGEND

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- STREAM
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- FEMA FLOODPLAIN
- FEMA FLOODPLAIN ANALYSIS DELINEATION
- FEMA REGULATORY FLOODWAY
- PROPERTY BOUNDARY
- SECTION BOUNDARY
- TOWNSHIP BOUNDARY
- COUNTY BOUNDARY

0 100 200 400 US FEET

TRANSVERSE MERCATOR, NAD 1983 BLM ZONE 13N, U.S. FOOT

BILL OF MATERIALS

REFERENCE DRAWINGS

REF.	DWG. NUMBER	DWG. TITLE

CP FEATURE DATA

REVISIONS

REV.	DATE	BY	DESCRIPTION
0	08/29/25	PD	ISSUED FOR USE
1	09/26/25	PD	UPDATED ALIGNMENT
2	10/24/25	PD	UPDATED AGENCY COMMENTS

DENVER EXPANSION PROJECT - SCOTT CITY TO DENVER PIPELINE

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MAGELLAN MIDSTREAM PARTNERS

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f: +1 (713) 963-9085
11330 Clay Road, Suite 550
Houston, TX 77041, USA

DRAWN BY:	PD	DATE:	10/24/25
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APPROVED BY:	SS	SHEET:	83 OF 95

COLORADO LICENSED STEPHEN SKORDAL 65474 PROFESSIONAL ENGINEER

ENGINEERING AND CONSTRUCTION DIVISION

THESE PLANS HAVE BEEN REVIEWED BY ARAPAHOE COUNTY FOR GRADING, EROSION, AND SEDIMENT CONTROL IMPROVEMENT ONLY.

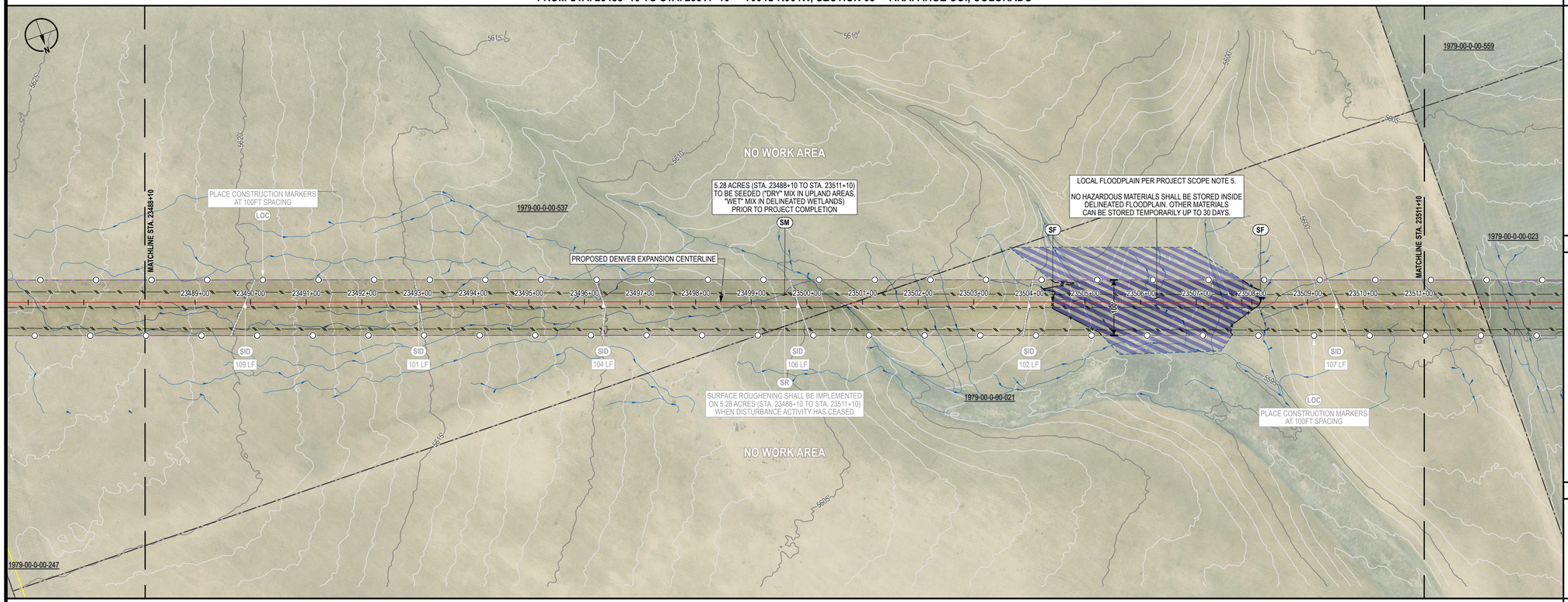
FINAL GRADING, EROSION AND SEDIMENT CONTROL PLAN ARAPAHOE COUNTY, COLORADO

FROM STA. 23442+10 TO STA 23488+10

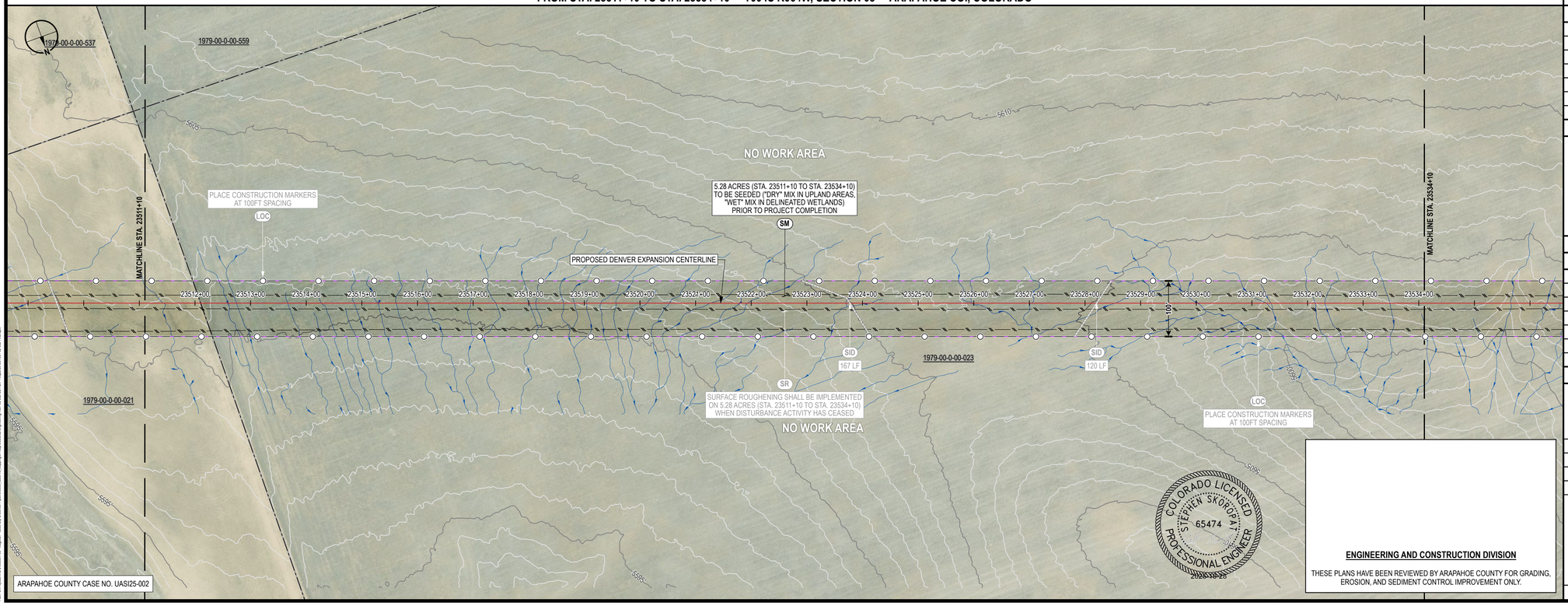
DWG. NUMBER: 1001-02-002-033-F REVISION: 2

Xref: G:\Projects\Tls_ONEOK\Drawings\Plan Sheets\Engineering\1001-02-002-033-F Rev - Arapahoe Co\1001-02-002-033-F Plan.dwg

FROM STA. 23488+10 TO STA. 23511+10 - T004S R064W, SECTION 08 - ARAPAHOE CO., COLORADO



FROM STA. 23511+10 TO STA. 23534+10 - T004S R064W, SECTION 08 - ARAPAHOE CO., COLORADO



COLORADO LICENSED
STEPHEN SKOROPAT
65474
PROFESSIONAL ENGINEER
2025-10-28

ENGINEERING AND CONSTRUCTION DIVISION

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0 100 200 400 US FEET

TRANSVERSE MERCATOR, NAD 1983 BLM ZONE 13N, U.S. FOOT

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FINAL GRADING, EROSION AND SEDIMENT CONTROL PLAN ARAPAHOE COUNTY, COLORADO

FROM STA. 23488+10 TO STA 23534+10

DWG. NUMBER:	1001-02-002-034-F	REVISION:	2

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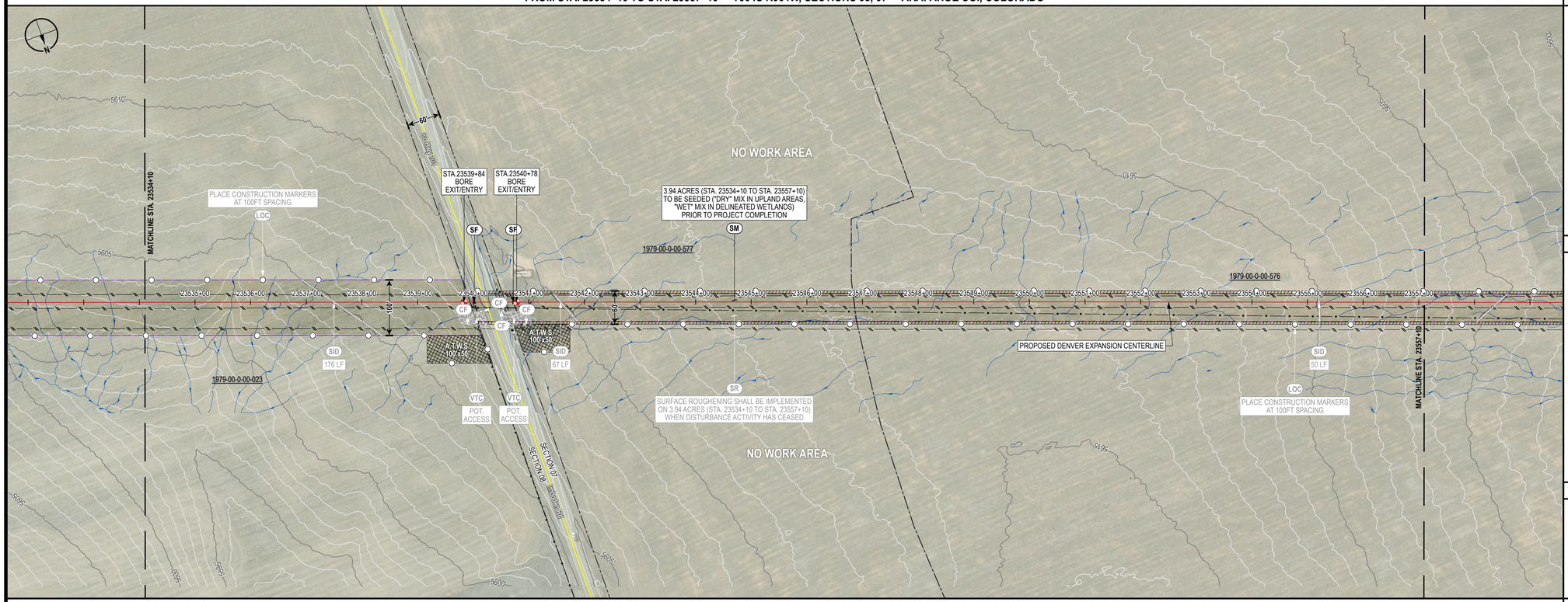
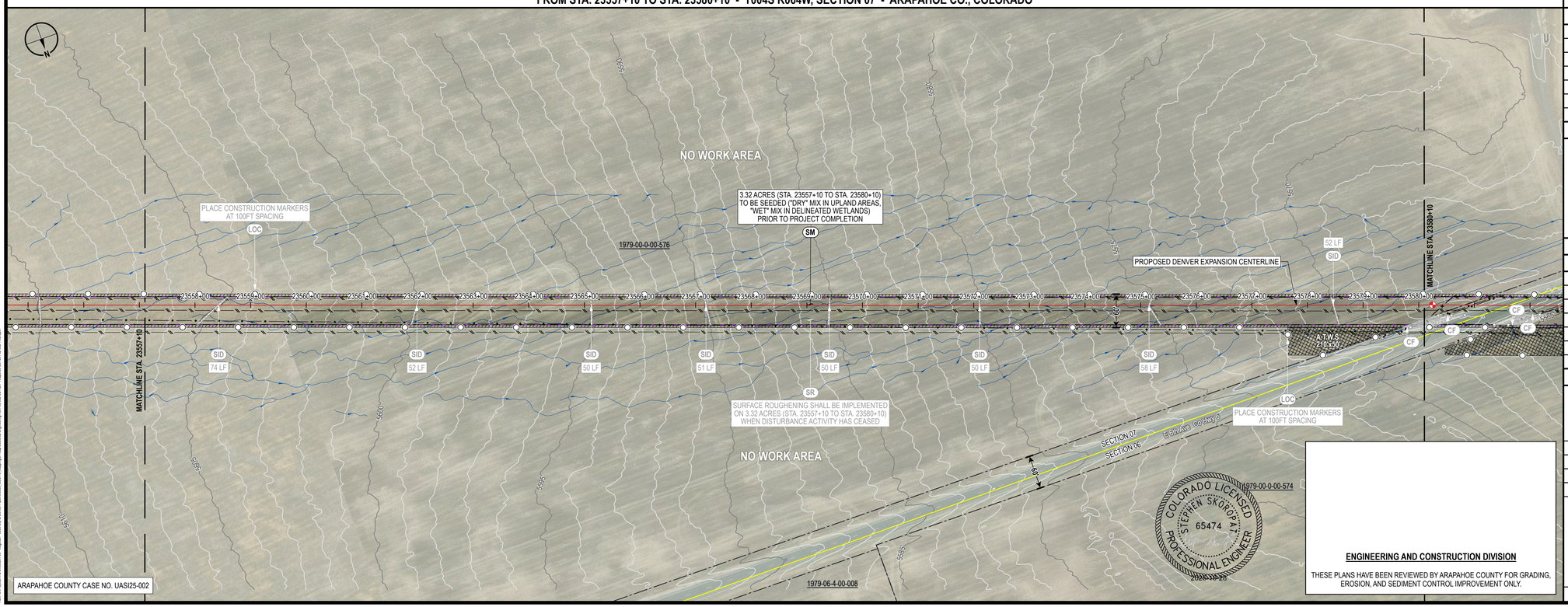
FROM STA. 23534+10 TO STA. 23557+10 - T004S R064W, SECTIONS 08, 07 - ARAPAHOE CO., COLORADO



FROM STA. 23557+10 TO STA. 23580+10 - T004S R064W, SECTION 07 - ARAPAHOE CO., COLORADO



ARAPAHOE COUNTY CASE NO. UASI25-002

CONTROL MEASURE NOTES

- (VTC) VEHICLE TRACKING CONTROL
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- COUNTY BOUNDARY

0 100 200 400 US FEET

TRANSVERSE MERCATOR, NAD 1983 BLM ZONE 13N, U.S. FOOT

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COLORADO LICENSED STEPHEN SKOROJAY 65474 PROFESSIONAL ENGINEER 2025-10-28

ENGINEERING AND CONSTRUCTION DIVISION

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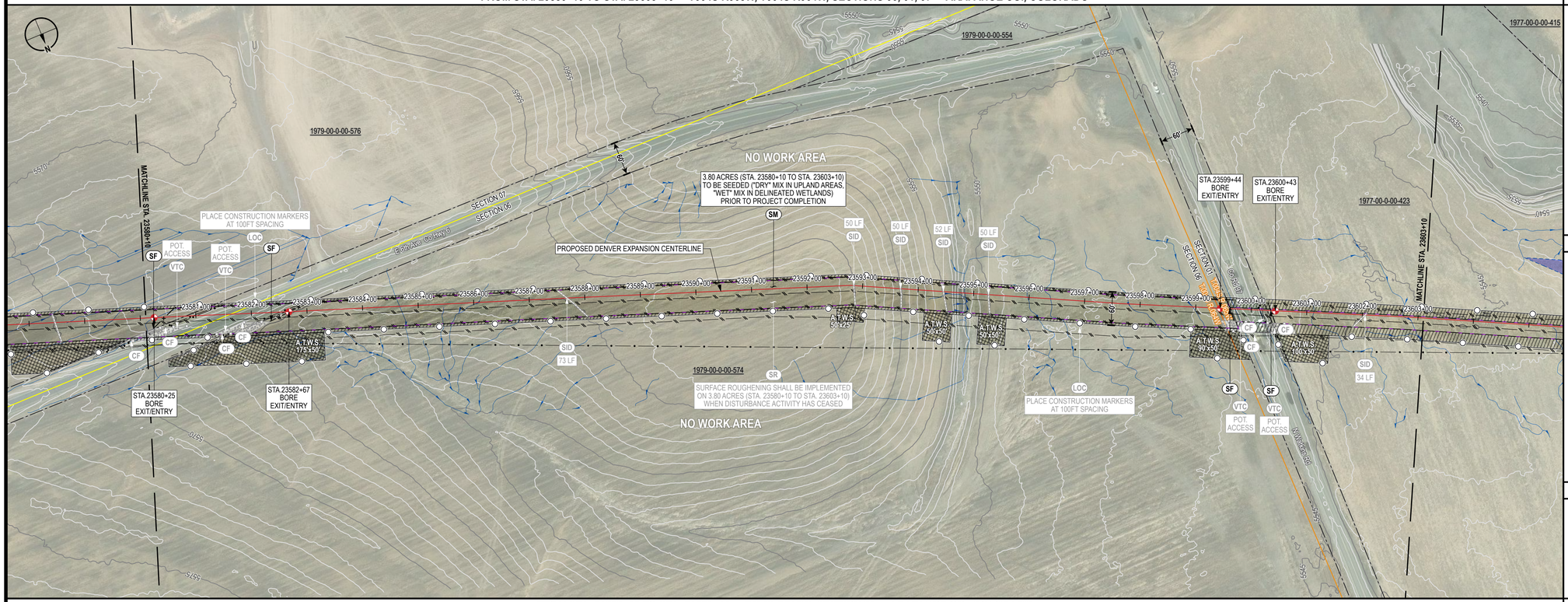
FINAL GRADING, EROSION AND SEDIMENT CONTROL PLAN ARAPAHOE COUNTY, COLORADO

FROM STA. 23534+10 TO STA 23580+10

DWG. NUMBER: 1001-02-002-035-F REVISION: 2

Xref: G:\Projects\70s_ONEOK\Civil - Mapgeo - Staff City to Denver Pipeline\0800_GEO\16_Mapping\01 Map Books\02 Engineering\1001-02-002-01.mxd - Arapahoe Co\1001-02-002-F.mxd - Arapahoe Co\1001-02-002-F.mxd

FROM STA. 23580+10 TO STA. 23603+10 - T004S R065W, T004S R064W, SECTIONS 06, 01, 07 - ARAPAHOE CO., COLORADO



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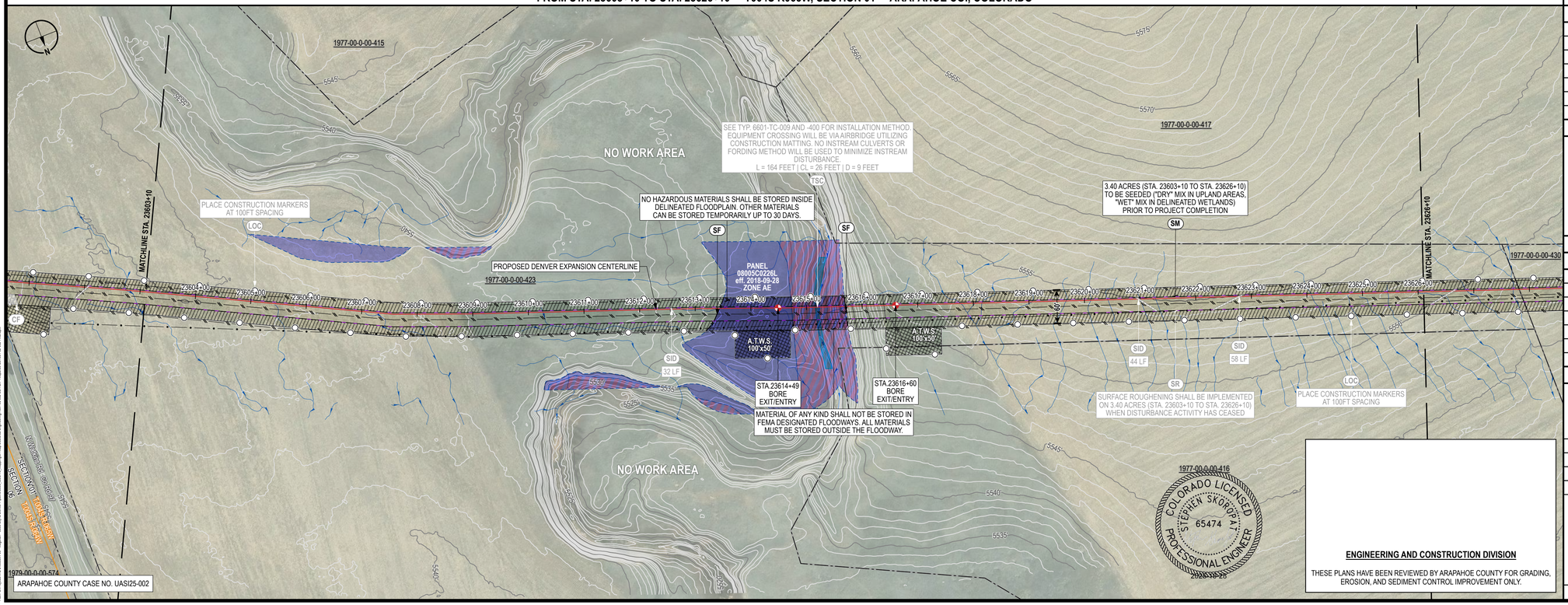

ARAPAHOE COUNTY CASE NO. UASI25-002

CONTROL MEASURE NOTES

- (VTC) VEHICLE TRACKING CONTROL
- (SR) SURFACE ROUGHENING
- (TSC) TEMPORARY STREAM CROSSING
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0 100 200 400 US FEET

TRANSVERSE MERCATOR, NAD 1983 BLM ZONE 13N, U.S. FOOT

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CP FEATURE DATA

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ENGINEERING AND CONSTRUCTION DIVISION

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FINAL GRADING, EROSION AND SEDIMENT CONTROL PLAN ARAPAHOE COUNTY, COLORADO

FROM STA. 23580+10 TO STA 23626+10

DWG. NUMBER:	1001-02-002-036-F	REVISION:	2

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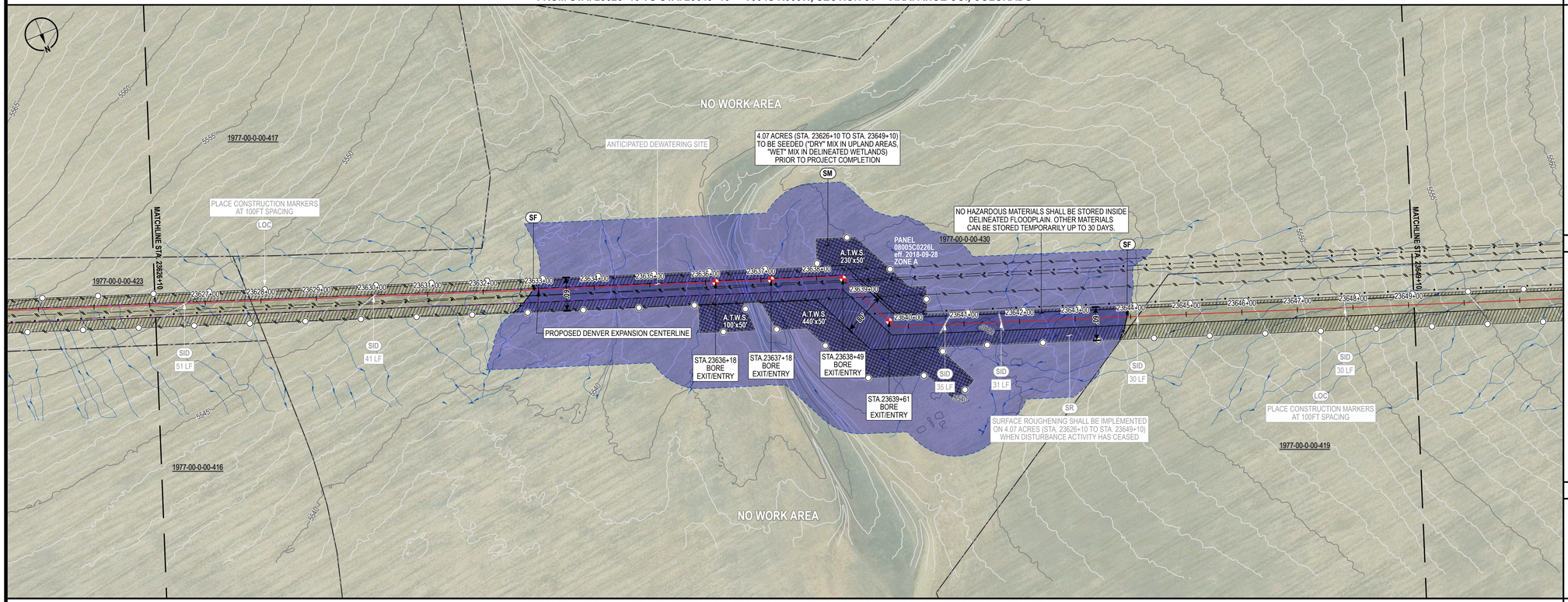
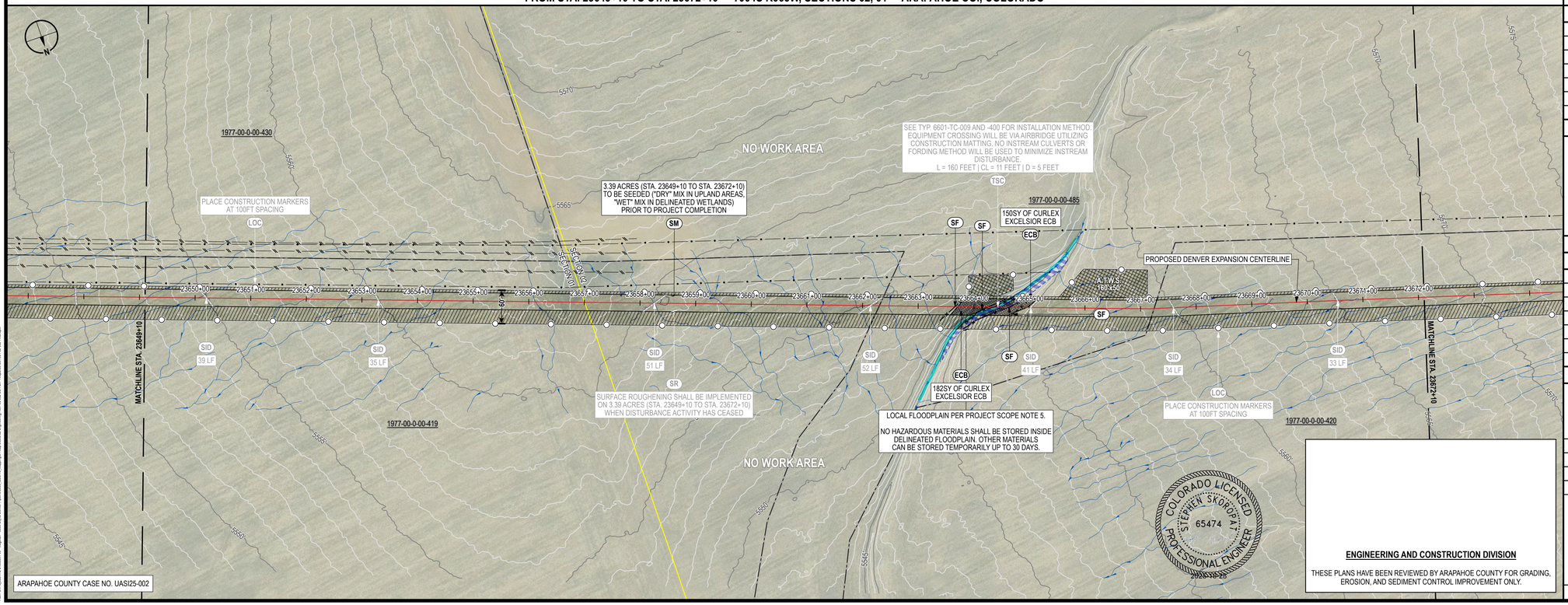
FROM STA. 23626+10 TO STA. 23649+10 - T004S R065W, SECTION 01 - ARAPAHOE CO., COLORADO



FROM STA. 23649+10 TO STA. 23672+10 - T004S R065W, SECTIONS 02, 01 - ARAPAHOE CO., COLORADO



ARAPAHOE COUNTY CASE NO. UASI25-002

CONTROL MEASURE NOTES

- (VTC) VEHICLE TRACKING CONTROL
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TRANSVERSE MERCATOR, NAD 1983 BLM ZONE 13N, U.S. FOOT

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FINAL GRADING, EROSION AND SEDIMENT CONTROL PLAN ARAPAHOE COUNTY, COLORADO

FROM STA. 23626+10 TO STA 23672+10

DWG. NUMBER:	1001-02-002-037-F	REVISION:	2

COLORADO LICENSED STEPHEN SKORDAL 65474 PROFESSIONAL ENGINEER 2025-10-28

ENGINEERING AND CONSTRUCTION DIVISION

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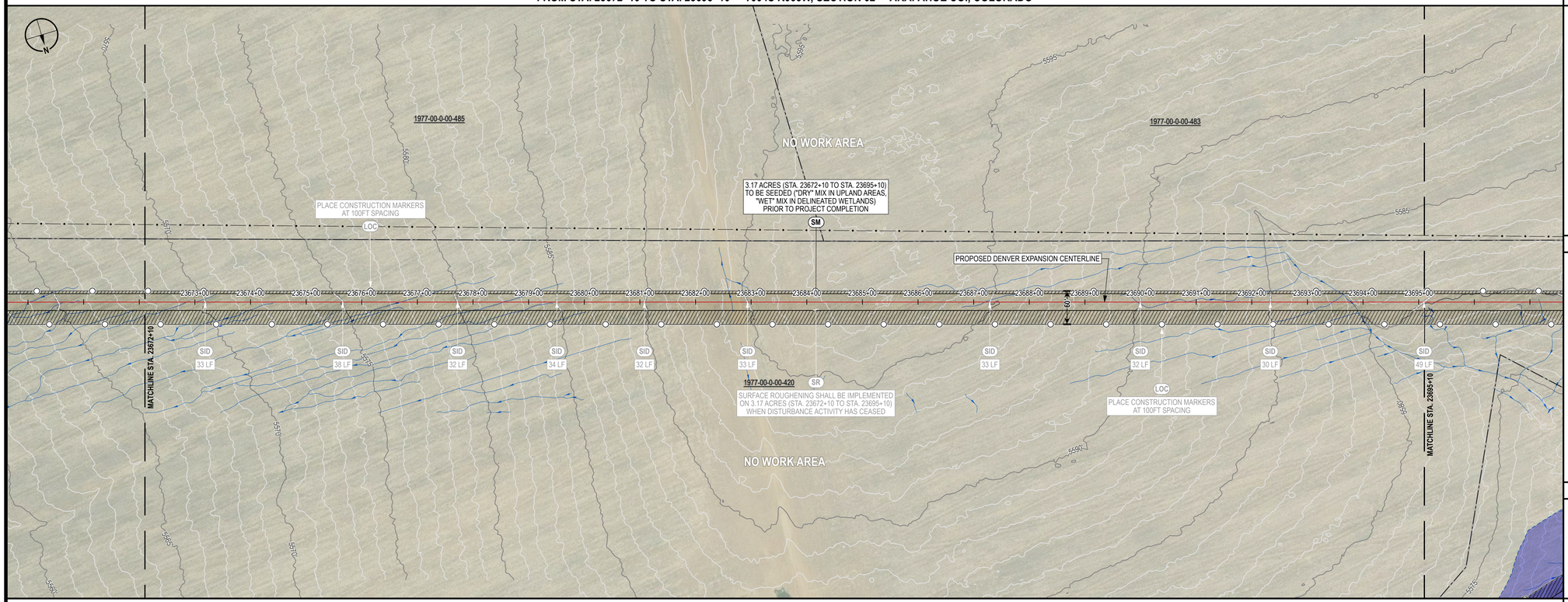

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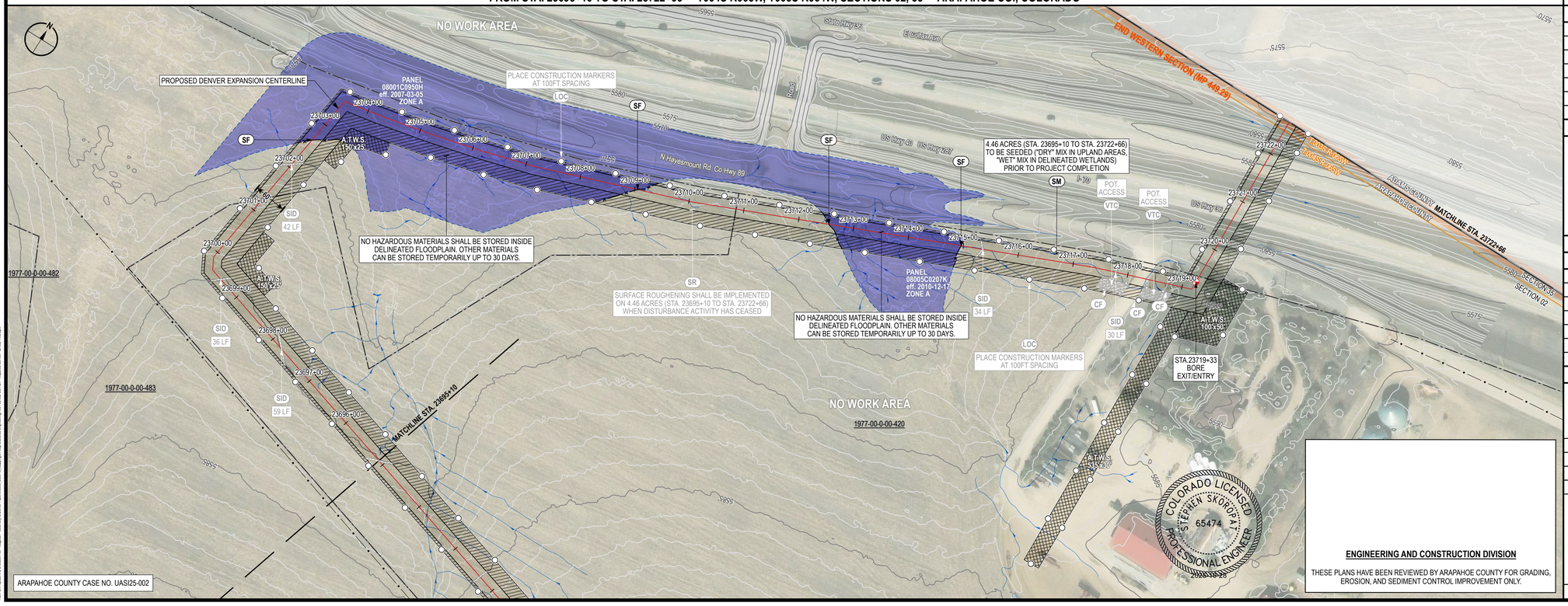

ARAPAHOE COUNTY CASE NO. UASI25-002

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- (ECB) EROSION CONTROL BLANKET INSTALLATION (CURLEX EXCELSIOR)
- (SID) SLOPE INTERCEPT DITCH
- (CM) CONSTRUCTION MARKER
- (SM) SEED AND MULCH
- (LOC) LIMITS OF CONSTRUCTION (SEE PROPOSED EASEMENT BOUNDARY / TEMPORARY WORKSPACE BOUNDARY BELOW)

(1) ATWS WILL HAVE RESTRICTED USE (NO TOP SOIL STORAGE, HAZARDOUS MATERIAL STORAGE, OR REFUELING WILL OCCUR).

(2) ITEMS IN LIGHT GRAY WERE INCLUDED IN THE INITIAL/INTERIM PLAN SET BUT HAVE BEEN REMOVED IN THE FINAL PLAN SET.

ENVIRONMENTAL NOTES / LEGEND

(1) ENVIRONMENTAL EXCLUSION AREAS WILL BE MARKED BY EXCLUSION FENCING AND SIGNAGE.

- PROPOSED CENTERLINE
- PROPOSED EASEMENT BOUNDARY
- TEMPORARY WORKSPACE BOUNDARY
- ADDITIONAL TEMPORARY WORKSPACE
- NEW PERMANENT SITE
- NEW PERMANENT ACCESS
- ACCESS ROAD
- CONSTRUCTION MARKER
- SLOPE INTERCEPT DITCH
- SILT FENCE
- CONSTRUCTION FENCE
- EROSION CONTROL BLANKET
- VEHICLE TRACKING CONTROL
- BORE OR HDD ENTRY/EXIT
- FOREIGN PIPELINE
- OTHER UTILITY
- EXISTING EASEMENT
- DRAINAGE FLOW
- WETLAND
- STREAM
- LOCAL FLOODPLAIN DELINEATION
- FEMA FLOODPLAIN
- FEMA FLOODPLAIN ANALYSIS DELINEATION
- FEMA REGULATORY FLOODWAY
- PROPERTY BOUNDARY
- SECTION BOUNDARY
- TOWNSHIP BOUNDARY
- COUNTY BOUNDARY

0 100 200 400 US FEET

TRANSVERSE MERCATOR, NAD 1983 BLM ZONE 13N, U.S. FOOT

BILL OF MATERIALS

REFERENCE DRAWINGS

REF.	DWG. NUMBER	DWG. TITLE

CP FEATURE DATA

REVISIONS

REV.	DATE	BY	DESCRIPTION
0	08/29/25	PD	ISSUED FOR USE
1	09/26/25	PD	UPDATED ALIGNMENT
2	10/24/25	PD	UPDATED AGENCY COMMENTS

DENVER EXPANSION PROJECT - SCOTT CITY TO DENVER PIPELINE

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EXP Energy Services Inc.
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11330 Clay Road, Suite 550
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DRAWN BY:	PD	DATE:	10/24/25
CHECKED BY:	DS	SCALE:	1" = 100' (PRINTED AT 24"x36")
APPROVED BY:	SS	SHEET:	88 OF 95

ENGINEERING AND CONSTRUCTION DIVISION

THESE PLANS HAVE BEEN REVIEWED BY ARAPAHOE COUNTY FOR GRADING, EROSION, AND SEDIMENT CONTROL IMPROVEMENT ONLY.

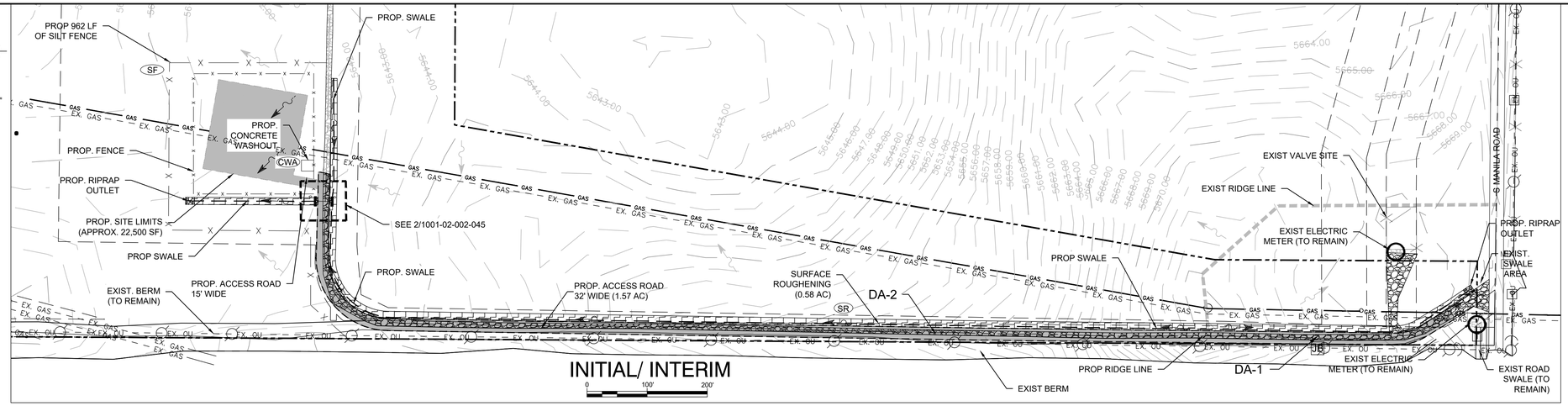
COLORADO LICENSED STEPHEN SKORDAL 65474 PROFESSIONAL ENGINEER 2025-10-28

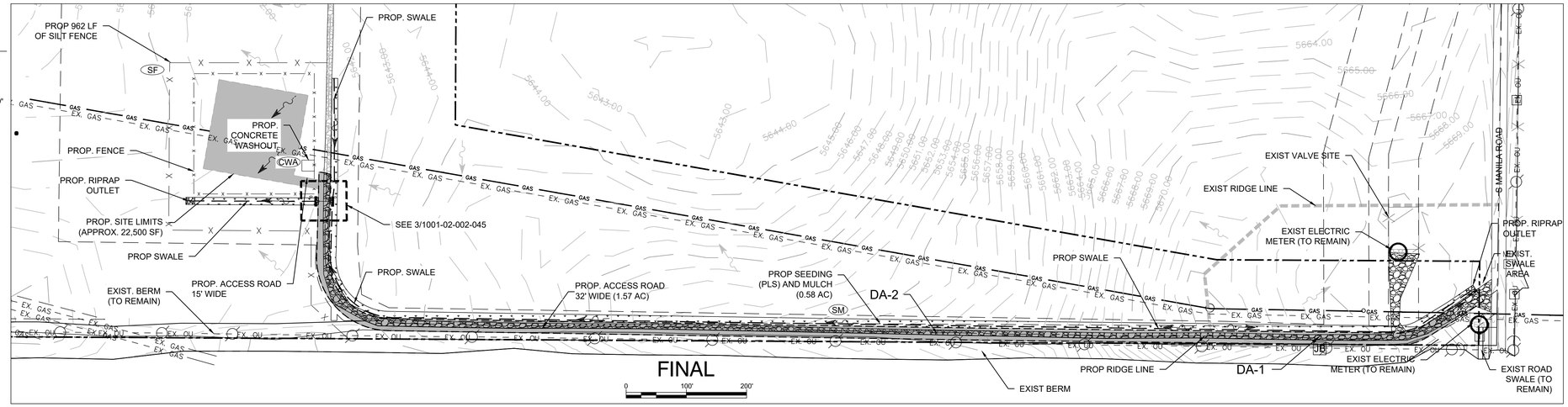
FINAL GRADING, EROSION AND SEDIMENT CONTROL PLAN ARAPAHOE COUNTY, COLORADO

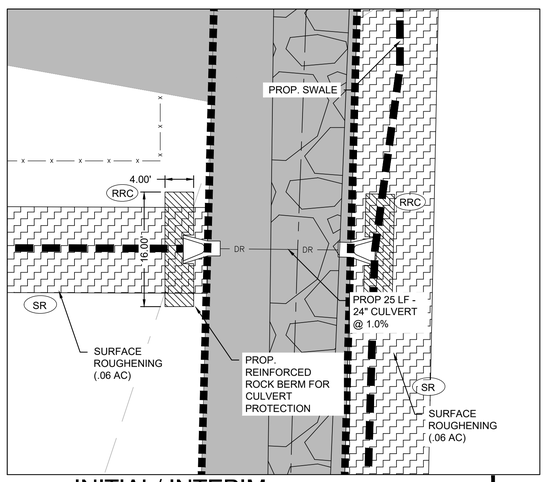
FROM STA. 23672+10 TO STA 23722+66

DWG. NUMBER:	1001-02-002-038-F	REVISION:	2

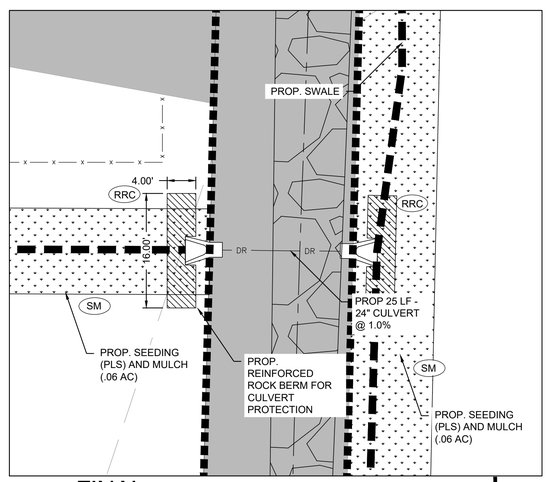
Path: G:\Projects\TRL_0400394.00 - Magellan - Scott City to Denver Pipeline\800_GEO\16_Mapping\01 Map Books\02 Engineering\1001-02-002-02.mxd - Andrew.Cox\10/7/2025 2:48:27 PM







INITIAL/ INTERIM
2 PROPOSED CULVERT INSET
1" = 10' - 0"
0 10' 20'
north



FINAL
3 PROPOSED CULVERT INSET
1" = 10' - 0"
0 10' 20'
north

COLORADO LICENSED
STEPHEN SKORDAS
65474
PROFESSIONAL ENGINEER

ARAPAHOE COUNTY PUBLIC WORKS AND DEVELOPMENT
APPROVAL BLOCK

CONTROL MEASURE NOTES

- VTC VEHICLE TRACKING CONTROL
- SR SURFACE ROUGHENING
- TSC TEMPORARY STREAM CROSSING
- SF SILT FENCE
- CF CONSTRUCTION FENCE
- CWA CONCRETE WASHOUT AREA
- SID SLOPE INTERCEPT DITCH
- CM CONSTRUCTION MARKER
- RRC RRB FOR CULVERT PROTECTION
- LOC LIMITS OF CONSTRUCTION (SEE PROPOSED EASEMENT BOUNDARY / TEMPORARY WORKSPACE BOUNDARY BELOW)

(1) ATWS WILL HAVE RESTRICTED USE (NO TOP SOIL STORAGE, HAZARDOUS MATERIAL STORAGE, OR REFUELING WILL OCCUR).

LEGEND

- PROPERTY LINE
- 5XXX-XX EXISTING CONTOUR
- EX. GAS EXISTING UNDERGROUND GAS
- EXISTING FENCE
- EX. OU EXISTING OVERHEAD ELECTRIC
- W EXISTING WATER STRUCTURE
- EM EXISTING ELECTRICAL STRUCTURE
- EXISTING RIDGE LINE
- EXISTING GRAVEL
- EXISTING FLOW ARROW
- PROPOSED FLOW ARROW
- PROPOSED SILT FENCE
- PROPOSED FENCE
- PROPOSED CONCRETE WASHOUT
- PROPOSED SURFACE ROUGHENING
- PROPOSED GRAVEL
- PROPOSED SEEDING AND MULCH
- PROPOSED REINFORCED ROCK BERM
- PROPOSED SWALE

BILL OF MATERIALS

REFERENCE DRAWINGS

REF.	DWG. NUMBER	DWG. TITLE

CP FEATURE DATA

REVISIONS

REV.	DATE	BY	DESCRIPTION
0	10/24/25	KB	ISSUED FOR USE

DENVER EXPANSION PROJECT-SCOTT CITY TO DENVER PIPELINE

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DRAWN BY:	KB	DATE:	10/24/25
CHECKED BY:	JW	SCALE:	AS SHOWN
APPROVED BY:	SS	SHEET:	89 OF 95

GRADING, EROSION, & SEDIMENT CONTROL PLAN
WATKINS JUNCTION SITE

DWG. NUMBER:	1001-02-002-045	REVISION:	0

GRADING, EROSION, AND SEDIMENT CONTROL (GESC) GENERAL NOTES

1. THE SOUTHEAST METRO STORMWATER AUTHORITY (SEMSWA) LAND DEVELOPMENT REVIEW MANAGER SIGNATURE AFFIXED TO THIS DOCUMENT INDICATES SEMSWA HAS REVIEWED THE DOCUMENT AND FOUND IT IN GENERAL COMPLIANCE WITH THE GRADING, EROSION AND SEDIMENT CONTROL (GESC) MANUAL. THE LAND DEVELOPMENT REVIEW MANAGER THROUGH ACCEPTANCE OF THIS DOCUMENT, ASSUMES NO RESPONSIBILITY (OTHER THAN AS STATED ABOVE) FOR THE COMPLETENESS AND/OR ACCURACY OF THESE DOCUMENTS.
2. THE ADEQUACY OF THIS GESC PLAN LIES WITH THE ORIGINAL DESIGN ENGINEER. CHANGES TO DESIGN INTENT THAT MEET THE DEFINITION OF MAJOR MODIFICATIONS MUST GO THROUGH ORIGINAL DESIGN ENGINEER.
3. THE GESC PLAN SHALL BE CONSIDERED VALID FOR TWO (2) YEARS FROM THE DATE OF ACCEPTANCE BY SEMSWA, AFTER WHICH TIME THE PLAN SHALL BE VOID AND WILL BE SUBJECT TO RE-REVIEW AND RE-ACCEPTANCE BY SEMSWA. PLANS MUST CONFORM TO CURRENT REQUIREMENTS.
4. ALL MATERIALS AND WORKMANSHIP SHALL BE SUBJECT TO INSPECTION BY SEMSWA'S INSPECTION DIVISION. SEMSWA RESERVES THE RIGHT TO ACCEPT OR REJECT ANY SUCH MATERIALS AND WORKMANSHIP THAT DOES NOT CONFORM TO THE GESC MANUAL, GESC PLAN OR GESC PERMIT.
5. THE PLACEMENT OF EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE ACCEPTED GESC PLAN AND THE SEMSWA GESC MANUAL.
6. ANY VARIATION IN MATERIAL, TYPE OR LOCATION OF EROSION AND SEDIMENT CONTROL MEASURES FROM THE SEMSWA – ACCEPTED GESC PLAN WILL REQUIRE APPROVAL FROM AN ACCOUNTABLE REPRESENTATIVE OF SEMSWA.
7. UPON RECEIVING THE APPROVED, SIGNED AND STAMPED GESC PLANS AND REPORT, THE CONTRACTOR MAY INSTALL THE NON-EARTH DISTURBING INITIAL-STAGE EROSION AND SEDIMENT CONTROL MEASURES INDICATED ON THE ACCEPTED GESC PLAN.
8. AFTER INSTALLATION OF THE INITIAL-STAGE EROSION AND SEDIMENT CONTROL MEASURES, THE PERMITTEE SHALL CALL THE INSPECTION DIVISION TO SCHEDULE A PRECONSTRUCTION MEETING AT THE PROJECT SITE. THE REQUEST SHALL BE MADE NO LESS THAN 24 HOURS PRIOR TO THE REQUESTED MEETING TIME. NO CONSTRUCTION ACTIVITIES SHALL BE PLANNED WITHIN 24 HOURS AFTER THE PRECONSTRUCTION MEETING.
9. IN ADDITION TO THE SEMSWA INSPECTOR AND GESC MANAGER, THE FOLLOWING REPRESENTATIVES SHOULD ATTEND: GENERAL CONTRACTOR, OWNER, OR OWNER'S REPRESENTATIVE AND GRADING SUBCONTRACTOR. IF ANY OF THE REQUIRED PARTICIPANTS FAIL TO ATTEND THE PRECONSTRUCTION MEETING, OR IF THE INSTALLATION OF THE INITIAL CONTROL MEASURES ARE NOT APPROVED BY THE SEMSWA INSPECTOR, THE APPLICANT WILL HAVE TO PAY A REINSPECTION FEE, ADDRESS ANY PROBLEMS WITH CONTROL MEASURE INSTALLATION, AND CALL TO RESCHEDULE THE MEETING, WITH A CORRESPONDING DELAY IN THE START OF CONSTRUCTION.
10. CONSTRUCTION SHALL NOT BEGIN UNTIL THE SEMSWA INSPECTOR APPROVES THE INSTALLATION OF THE INITIAL CONTROL MEASURES AND THE APPROVED GESC PERMIT HAS BEEN ISSUED BY SEMSWA AND IS IN-HAND ON THE SITE. THE COMPLETED PERMIT WILL GENERALLY BE FIELD ISSUED OR ISSUED VIA EMAIL AFTER THE INSTALLATION OF THE INITIAL CONTROL MEASURES ARE APPROVED.
11. THE GESC MANAGER SHALL STRICTLY ADHERE TO THE SEMSWA APPROVED LIMITS OF CONSTRUCTION AT ALL TIMES. THE SEMSWA INSPECTION DIVISION MUST APPROVE ANY CHANGES TO THE LIMITS OF CONSTRUCTION AND, AT THE DISCRETION OF THE INSPECTION DIVISION, ADDITIONAL EROSION/SEDIMENT CONTROLS MAY BE REQUIRED IN ANY ADDITIONAL AREAS OF CONSTRUCTION/ DISTURBANCE ARE NEEDED.
12. THE MAXIMUM AREA OF CONSTRUCTION SHALL BE LIMITED TO 40 ACRES (70 ACRES IF APPROVED FOR SOIL MITIGATION OPERATIONS) TO REDUCE THE AMOUNT OF LAND DISTURBED AT ANY ONE TIME. LARGER SITES SHALL BE DIVIDED INTO PHASES THAT ARE EACH 40 (OR 70) ACRES OR LESS IN SIZE. THESE PROJECTS SHALL CONDUCT GRADING ACTIVITIES IN ACCORDANCE WITH THE ACCEPTED GESC PLAN. CONTROL MEASURE INSTALLATION AND APPROVAL BY SEMSWA AT THE START AND COMPLETION OF EACH PHASE SHALL BE CONDUCTED IN ACCORDANCE WITH THE PROCEDURES OUTLINED IN THE GESC MANUAL.
13. NATURAL VEGETATION SHALL BE RETAINED AND PROTECTED WHEREVER POSSIBLE. EXPOSURE OF SOIL TO EROSION BY REMOVAL OR DISTURBANCE OF VEGETATION SHALL BE LIMITED TO THE AREA REQUIRED FOR IMMEDIATE CONSTRUCTION OPERATIONS.
14. THE GESC PERMIT SHALL BE VALID FOR A PERIOD OF TWO (2) YEARS.
15. A COPY OF THE GESC PERMIT AND APPROVED GESC PLANS SHALL BE ON SITE OR MADE AVAILABLE UPON REQUEST.
16. THE GESC MANAGER SHALL BE RESPONSIBLE PARTY FOR ENSURING THAT THE SITE REMAINS IN COMPLIANCE WITH THE GESC PERMIT AND SHALL BE THE PERMITTEE'S CONTACT PERSON WITH SEMSWA FOR ALL MATTERS PERTAINING TO THE GESC PERMIT. THE GESC MANAGER SHALL BE ON THE SITE AS NECESSARY TO ENSURE THE GESC REQUIREMENTS ARE BEING IMPLEMENTED, AND (ALONG WITH THE ALTERNATE GESC MANAGER) SHALL PROVIDE SEMSWA WITH A 24-HOUR EMERGENCY CONTACT NUMBER. IN THE EVENT THAT THE CONTRACTOR'S GESC MANAGER IS NOT ON SITE AND CANNOT BE REACHED DURING A VIOLATION, THE ALTERNATE GESC MANAGER SHALL BE CONTACTED. IF NEITHER THE GESC MANAGER NOR ALTERNATE GESC MANAGER CAN BE CONTACTED DURING ANY VIOLATION, WITHIN 24 HOURS, VIOLATION MAY BE ISSUED TO THE PERMITTE(S).
17. ALL CONSTRUCTION TRAFFIC MUST EXIT THE SITE THROUGH THE SEMSWA-APPROVED ACCESS POINT. A VEHICLE TRACKING CONTROL PAD IS REQUIRED AT ALL EXIT POINTS ON THE SITE. ADDITIONAL STABILIZED CONSTRUCTION ENTRANCES MAY BE ADDED WITH AUTHORIZATION FROM THE SEMSWA INSPECTION DIVISION.
18. THE GESC MANAGER IS RESPONSIBLE FOR CLEANUP OF SEDIMENT OR CONSTRUCTION DEBRIS TRACKED ONTO ADJACENT PAVED AREAS. PAVED AREAS INCLUDING STREETS ARE TO BE KEPT CLEAN THROUGHOUT BUILD-OUT AND SHALL BE CLEANED, WITH A STREET SWEEPER OR SIMILAR DEVICE, AT FIRST NOTICE OF ACCIDENTAL TRACKING OR AT THE DISCRETION OF THE SEMSWA GESC INSPECTOR. STREET WASHING IS NOT ALLOWED. SEMSWA RESERVES THE RIGHT TO REQUIRE ADDITIONAL MEASURES TO ENSURE AREA STREETS ARE KEPT FREE OF SEDIMENT AND/OR CONSTRUCTION DEBRIS.
19. APPROVED EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED AND KEPT IN GOOD REPAIR FOR THE DURATION OF THIS PROJECT. AT A MINIMUM, THE GESC MANAGER SHALL INSPECT ALL CONTROL MEASURES IN ACCORDANCE WITH THE ACCEPTED GESC PLAN AND GESC MANUAL. ALL NECESSARY MAINTENANCE AND REPAIR ACTIVITIES SHALL BE COMPLETED WITHIN 48 HOURS. ACCUMULATED SEDIMENT AND CONSTRUCTION DEBRIS SHALL BE REMOVED AND PROPERLY DISPOSED.
20. STRAW BALES ARE NOT A SEMSWA GESC-ACCEPTED SEDIMENT CONTROL MEASURE.
21. TOPSOIL SHALL BE STRIPPED AND STOCKPILED IN THE LOCATION SHOWN ON THE ACCEPTED GESC PLAN. THE TOPSOIL STOCKPILE(S) SHALL FOLLOW ALL STOCKPILING CRITERIA DESCRIBED IN THE GESC MANUAL. TOPSOIL SHALL BE REPLACED AT A MINIMUM DEPTH OF 6 INCHES. IF A MINIMUM DEPTH OF 6 INCHES CAN NOT BE OBTAINED, ADDITIONAL TOPSOIL AND/ OR APPROVED SOIL AMENDMENTS WILL BE REQUIRED TO BE PLACED PRIOR TO SEEDING AND MULCHING.
22. THE ACCEPTED GESC PLAN MAY REQUIRE CHANGES OR ALTERATIONS AFTER APPROVAL TO MEET CHANGING SITE OR PROJECT CONDITIONS OR TO ADDRESS INEFFICIENCIES IN DESIGN OR INSTALLATION. THE GESC MANAGER SHALL OBTAIN PRIOR APPROVAL FOR MAJOR MODIFICATIONS FROM THE DESIGN ENGINEER AND SEMSWA FOR ANY PROPOSED CHANGES.
23. LINING OF TEMPORARY SWALES AND DITCHES SHALL BE IN ACCORDANCE WITH THE GESC MANUAL.
24. ANY SETTLEMENT OR SOIL ACCUMULATIONS BEYOND THE LIMITS OF CONSTRUCTION DUE TO GRADING OR EROSION SHALL BE REPAIRED IMMEDIATELY BY THE GESC MANAGER. THE GESC MANAGER SHALL BE HELD RESPONSIBLE FOR OBTAINING ACCESS RIGHTS TO ADJACENT PROPERTY, IF NEEDED, AND REMEDIATING ANY ADVERSE IMPACTS TO ADJACENT WATERWAYS, WETLANDS, PROPERTIES, ETC. RESULTING FROM WORK DONE AS PART OF THIS PROJECT.
25. A WATER SOURCE SHALL BE AVAILABLE ON SITE DURING EARTHWORK OPERATIONS AND UTILIZED AS REQUIRED TO MINIMIZE DUST FROM EARTHWORK EQUIPMENT AND WIND.
26. SOILS THAT WILL BE STOCKPILED FOR MORE THAN THIRTY (30) DAYS SHALL BE SEEDED AND MULCHED WITHIN FOURTEEN (14) DAYS OF STOCKPILE CONSTRUCTION. NO STOCKPILES SHALL BE PLACED WITHIN ONE HUNDRED (100) FEET OF A DRAINAGE WAY UNLESS APPROVED BY SEMSWA.
27. ALL CHEMICAL OR HAZARDOUS MATERIAL SPILLS WHICH MAY ENTER WATERS OF THE STATE OF COLORADO, WHICH INCLUDE BUT ARE NOT LIMITED TO, SURFACE WATER, GROUND WATER AND DRY GULLIES OR STORM SEWER LEADING TO SURFACE WATER, SHALL BE IMMEDIATELY REPORTED TO THE CDPHE PER CRS 25-8-601, AND SEMSWA. RELEASES OF PETROLEUM PRODUCTS AND CERTAIN HAZARDOUS SUBSTANCES LISTED UNDER THE FEDERAL CLEAN WATER ACT (40 CFR PART 116) MUST BE REPORTED TO THE NATIONAL RESPONSE CENTER AS WELL AS THE CDPHE. CONTACT INFORMATION FOR CDHPE, SEMSWA AND THE NATIONAL RESPONSE CENTER CAN BE FOUND IN APPENDIX A. SPILLS THAT POSE AN IMMEDIATE RISK TO HUMAN LIFE SHALL BE REPORTED TO 911. FAILURE TO REPORT AND CLEAN UP ANY SPILL SHALL RESULT IN ISSUANCE OF A STOP WORK ORDER. TO REPORT SPILLS TO SEMSWA CALL 303-858-8844.
28. ALL WORK ON SITE SHALL STAY A MINIMUM OF ONE HUNDRED (100) FEET AWAY FROM ANY DRAINAGE WAY, WETLAND, ETC. UNLESS OTHERWISE NOTED ON AN ACCEPTED SEMSWA GESC PLAN.
29. THE USE OF REBAR, STEEL STAKES STAPLES, OR STEEL FENCE POSTS FOR STAKING OR SUPPORT OF ANY EROSION OR SEDIMENT CONTROL MEASURE IS PROHIBITED (EXCEPT STEEL TEE-POSTS FOR USE IN SUPPORTING CONSTRUCTION FENCE).
30. THE CLEANING OF CONCRETE DELIVERY TRUCK CHUTES IS RESTRICTED TO APPROVED CONCRETE WASH OUT LOCATIONS ON THE JOB SITE. THE DISCHARGE OF WATER CONTAINING WASTE CONCRETE TO THE STORM SEWER SYSTEM IS PROHIBITED. ALL CONCRETE WASTE SHALL BE PROPERLY CLEANED UP AND DISPOSED AT AN APPROPRIATE LOCATION.
31. ALL DEWATERING ON SITE SHALL BE COORDINATED WITH A SEMSWA GESC INSPECTOR AND BE FREE OF SEDIMENT IN ACCORDANCE WITH THE GESC MANUAL, AND STATE OF COLORADO DEWATERING PERMIT.
32. ALL PERMANENT INSTALLATIONS OF PIPES FOR STORM SEWERS, SLOPE DRAINS, AND CULVERTS, TOGETHER WITH RIPRAP APRONS OR OTHER INLET AND OUTLET PROTECTION, REQUIRE INSPECTION BY SEMSWA (SEPARATE FROM GESC INSPECTIONS).
33. ALL DISTURBED AREAS SHALL BE STABILIZED IN ACCORDANCE WITH THE GESC MANUAL WITHIN 14 DAYS OF SUBSTANTIAL COMPLETION OF GRADING, INCLUDING AREAS TO REMAIN DORMANT FOR LONGER THAN 30 DAYS, WHICHEVER IS LESS. THIS MAY REQUIRE MULTIPLE MOBILIZATIONS FOR SEEDING AND MULCHING.
34. HYDRAULIC SEEDING IS NOT AN ACCEPTABLE METHOD OF SEEDING WITHIN THE SEMSWA SERVICE AREA.
35. HYDRO-MULCH MAY BE USED FOR LIMITED APPLICATIONS AS APPROVED BY SEMSWA.
36. UTILITY LINE INSTALLATION SHALL COMPLY WITH THE FOLLOWING CRITERIA:
- ALL UTILITY WORK WITHIN A RIGHT-OF-WAY SHALL BE REQUIRED TO OBTAIN A RIGHT-OF-WAY USE AND CONSTRUCTION PERMIT IN ACCORDANCE WITH THE APPROPRIATE STANDARDS.
- PROVIDE ADEQUATE EROSION AND SEDIMENT CONTROLS.
- AT THE END OF A WORK DAY, NO TRENCH SHALL BE LEFT OPEN AND BACKFILL MUST BE COMPLETED TO GRADE.
- WHERE CONSISTENT WITH SAFETY AND SPACE CONSIDERATIONS, EXCAVATED MATERIAL IS TO BE PLACED ON THE UPHILL SIDE OF TRENCHES.
- AT NO TIME SHALL EXCAVATED MATERIAL BE PLACED ON THE STREET.
- TRENCH DEWATERING DEVICES MUST DISCHARGE IN A MANNER THAT WILL NOT EFFECT STREAMS, WETLANDS, DRAINAGE SYSTEMS, OR OFF-SITE PROPERTY. DISCHARGE FROM TRENCH SHALL BE FREE OF ANY SEDIMENT. A RIPRAP PAD SHALL BE PLACED AT THE DISCHARGE END OF THE HOSE TO PREVENT ANY ADDITIONAL EROSION.
- STORM SEWER INLET PROTECTION SHALL BE PROVIDED WHENEVER SOIL EROSION FROM THE EXCAVATED AREA HAS POTENTIAL OF ENTERING THE STORM DRAINAGE SYSTEM.
- ALL DISTURBED AREAS SHALL BE DRILL SEEDED AND CRIMP MULCHED WITHIN FIVE DAYS AFTER UTILITY INSTALLATION IS COMPLETED.
- ALL OTHER APPLICABLE CRITERIA AS OUTLINED IN THE GESC MANUAL.

37. ALL SINGLE-FAMILY RESIDENTIAL DEVELOPMENT PROJECTS SHALL COMPLY WITH THE GESC CRITERIA AS PRESENTED IN THE GESC MANUAL.
38. NO RECYCLED ASPHALT SHALL BE USED AS A CONTROL MEASURE. RECYCLED CONCRETE MUST BE APPROVED BY SEMSWA.
39. SEMSWA MAY ALLOW THE INSTALLATION OF ALTERNATIVE CONTROL MEASURES OTHER THAN THE GESC PLAN STANDARD NOTES AND DETAILS. IF ALTERNATIVE EROSION AND SEDIMENT CONTROL MEASURES WILL BE USED, CUT SHEETS MUST BE SUBMITTED TO THE SEMSWA INSPECTOR.
40. IF YOU ARE EXPORTING EXCESS DIRT WITHIN THE SEMSWA SERVICE AREA,YOU WILL BE REQUIRED TO OBTAIN A GESC PERMIT FOR THE SECONDARY SITE.

LEGEND

1	1	CBC	CUT BACK CURB
2	1	CD	CHECK DAM
3	1	CWA	CONCRETE WASHOUT AREA
4	1	CF	CONSTRUCTION FENCE
5	1	CM	CONSTRUCTION MARKERS
6	1	CS	CURB SOCK
7	1	DW	DEWATERING
8	2	DD	DIVERSION DITCH
9	2	ECB	EROSION CONTROL BLANKET
10	2	FGM	FLEXIBLE GROWTH MEDIUM
11	2	GMS	GROUT MIXING STATION
12	2	IP	INLET PROTECTION
13	2	RCD	REINFORCED CHECK DAM
14	2	RRB	REINFORCED ROCK BERM
15	2	RRC	RRB FOR CULVERT PROTECTION
16	3	SB	SEDIMENT BASIN
17	3	SCL	SEDIMENT CONTROL LOG
18	3	ST	SEDIMENT TRAP
19	3	SM	SEEDING AND MULCHING
20	3	SF	SILT FENCE
21	3	SFR	SILT FENCE REINFORCED
22	4	SID	SLOPE INTERCEPT DITCH
23	4	SSA	STABILIZED STAGING AREA
24	4	SR	SURFACE ROUGHENING
25	4	TSD	TEMPORARY SLOPE DRAIN
26	4	TSC	TEMPORARY STREAM CROSSING
27	4	VTC	VEHICLE TRACKING CONTROL
28	4	WW	VTC WITH WHEEL WASH
		LOC	LIMITS OF CONSTRUCTION
		*EG	MAY MEET MAJOR MODIFICATION REQUIREMENTS

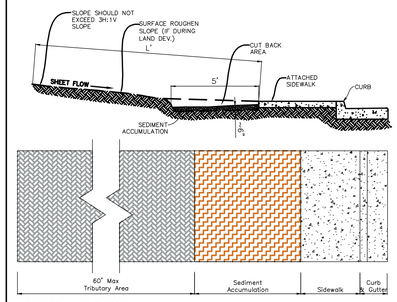
ROCK AND RIPRAP GRADATIONS

TABLE 1. RIPRAP GRADATIONS

D50 MEDIAN STONE SIZE (INCHES)	% OF MATERIAL SMALLER THAN TYPICAL STONE	TYPICAL STONE EQUIVALENT DIAMETER (INCHES)	TYPICAL STONE WEIGHT (POUNDS)
6	70 – 100 50 – 70 35 – 50 2 – 10	12 9 6 2	85 35 10 0.4
9	70 – 100 50 – 70 35 – 50 2 – 10	15 12 9 3	160 85 35 1.3
12	70 – 100 50 – 70 35 – 50 2 – 10	21 18 12 4	440 275 95 3
18	100 50 – 70 35 – 50 2 – 10	30 24 18 6	1280 650 275 10
24	100 50 – 70 35 – 50 2 – 10	42 33 24 9	3500 1700 650 35

TABLE 2. RIPRAP BEDDING

SIEVE SIZE	MASS PERCENT PASSING SQUARE MESH SIEVES
	CLASS A
3" 1 1/2" NO. 4 NO. 200	100 20 – 90 0 – 20 0 – 3
MATCHES SPECIFICATIONS FOR CDOT CLASS A FILTER MATERIAL AND UDFCD TYPE I BEDDING. ALL ROCK SHALL BE FRACTURED FACE, ALL SIDES.	



DESCRIPTION AND PURPOSE
- A TEMPORARY SEDIMENT BARRIER AND TRAP FORMED BY EXCAVATION BEHIND CURB OR SIDEWALK TO RETAIN SEDIMENT ON SITE DURING CONSTRUCTION.

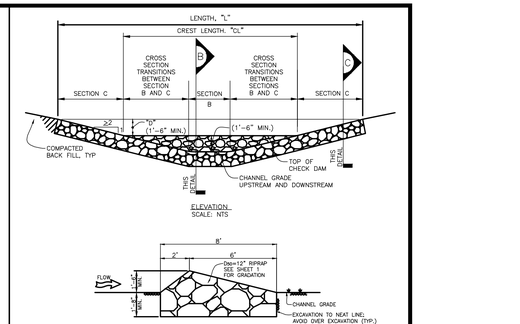
SUITABLE APPLICATIONS
- DURING LAND DEVELOPMENT AFTER PAVING OR DURING VERTICAL CONSTRUCTION.
- USE IN TREE LAWNS OR IN LANDSCAPE ISLANDS.
- USE SURFACE ROUGHENING ON UPGRADIENT SLOPES IF DURING LAND DEVELOPMENT.

SIZING
- SEDIMENT ACCUMULATION VOLUME IS SIZED PER 1800CF/AC OF TRIBUTARY AREA. 5' WIDTH AND 6" DEPTH IS ACCEPTABLE FOR TRIBUTARY SHEET FLOW UP TO 60 LF. TRIBUTARY SHEET FLOW OVER 60 LF MUST COMPUTE CUSTOM SEDIMENT ACCUMULATION BASIN.

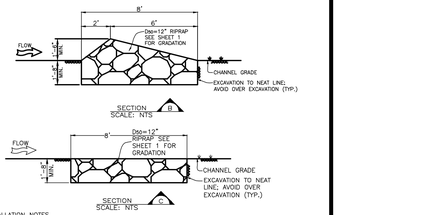
LIMITATIONS
- NOT FOR USE EXCEEDING 3H:1V SLOPES.
- NOT FOR USE FOR CONCENTRATED FLOW AREAS.
- PROLONGED STANDING WATER MAY AFFECT SUB-BASE OF PAVING AND COULD CAUSE SOIL TO SETTLE AND POTENTIALLY DAMAGE CONCRETE.

INSPECTION AND MAINTENANCE
- THE GESC MANAGER SHALL INSPECT AS NECESSARY TO ENSURE THE ADEQUACY AND FUNCTIONALITY OF THE CONTROL MEASURE.
- REMOVE ACCUMULATED SEDIMENT WHEN 1/2 CAPACITY. DO NOT ALLOW SEDIMENT TO OVERFLOW ONTO CURB OR SIDEWALK.
- IMPLEMENT ADDITIONAL CONTROL MEASURES SUCH AS DOWNGRADIENT
- SEDIMENT CONTROL LOGS, CURB CHECKS, OR OTHER BARRIERS AS ON-SITE CONDITIONS REQUIRE.

CBC — CUT BACK CURB — 1



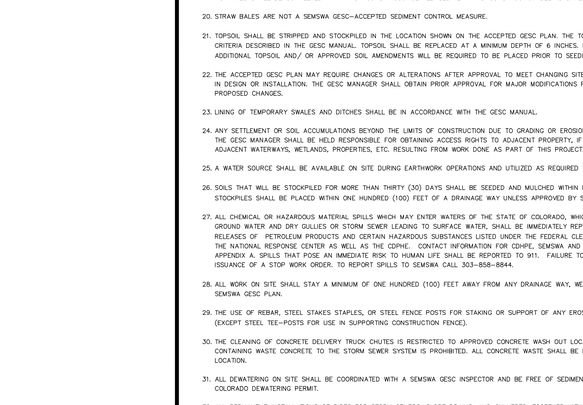
ELEVATION
SCALE: NTS



CHECK DAM INSTALLATION NOTES
1. SEE PLAN VIEW FOR:
   - LOCATIONS OF CHECK DAMS.
   - CHECK DAM TYPE (CHECK DAM OR REINFORCED CHECK DAM).
   - LENGTH, "L", CREST LENGTH, "CL", AND DEPTH, "D".
2. CHECK DAMS INDICATED ON INITIAL GESC PLAN SHALL BE INSTALLED PRIOR TO ANY UPSTREAM LAND-DISTURBING ACTIVITIES.
3. VL RIPRAP SHALL BE UTILIZED FOR CHECK DAMS.
4. RIP RAP PAD SHALL BE TRENCHED INTO THE CHANNEL BANKS TO ADEQUATELY ANCHOR WITH CENTER OF THE CHECK DAM LOWER TO ALLOW FOR OVERTOPPING AT THE CREST.

CHECK DAM MAINTENANCE NOTES
1. THE GESC MANAGER SHALL INSPECT AS NECESSARY TO ENSURE THE ADEQUACY AND FUNCTIONALITY OF THE CONTROL MEASURE.
2. SEDIMENT ACCUMULATED UPSTREAM OF CHECK DAMS SHALL BE REMOVED WHEN THE SEDIMENT DEPTH UPSTREAM OF CHECK DAM IS WITHIN 1/2 OF THE HEIGHT OF THE CREST.
3. CHECK DAMS ARE TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND GRASS COVER IS APPROVED BY SEMSWA.
4. WHEN CHECK DAMS ARE REMOVED, EXCAVATIONS SHALL BE FILLED WITH SUITABLE COMPACTED BACK FILL. ANY DISTURBED AREA SHALL BE SEEDED AND MULCHED AND COVERED WITH EROSION CONTROL BLANKET OR OTHERWISE STABILIZED IN A MANNER APPROVED BY SEMSWA.

CD — CHECK DAM — 2



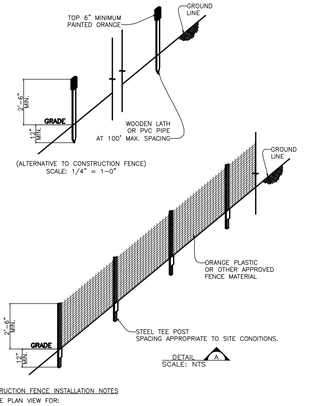
CONCRETE WASHOUT AREA INSTALLATION NOTES
1. SEE PLAN VIEW FOR LOCATIONS OF CONCRETE WASHOUT AREA.
2. THE CONCRETE WASHOUT AREA SHALL BE INSTALLED PRIOR TO ANY CONCRETE PLACEMENT ON SITE.
3. VEHICLE TRACKING CONTROL (VTC) (DETAIL 27) IS REQUIRED AT THE ACCESS POINT. THE VTC CAN BE REMOVED AT THE DISCRETION OF THE SEMSWA INSPECTOR.
4. SIGNAGE SHALL BE PLACED AT THE WASHOUT AREA, AND MAY BE ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CONCRETE WASHOUT AREA TO OPERATORS OF CONCRETE TRUCKS AND PUMP RIGS.
5. EXCAVATED MATERIAL MAY BE UTILIZED IN PERIMETER BERM CONSTRUCTION.
6. CONCRETE WASHOUT MUST BE LINED IN AREAS WITH HIGH GROUNDWATER. LINERS MUST BE 30 MIL OR GREATER.

CONCRETE WASHOUT AREA MAINTENANCE NOTES
1. THE CONCRETE WASHOUT AREA SHALL BE REPAIRED AND ENLARGED OR CLEANED OUT AS NECESSARY TO MAINTAIN CAPACITY FOR WASTED CONCRETE.
2. AS NEEDED DURING CONSTRUCTION, AND AT THE END OF CONSTRUCTION, ALL CONCRETE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF AT AN APPROVED WASTE SITE.
3. WHEN THE CONCRETE WASHOUT AREA IS REMOVED, THE DISTURBED AREA SHALL BE DRILL SEEDED AND CRIMP MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY SEMSWA.
4. INSPECT WEEKLY, DURING AND AFTER ANY STORM EVENT.

GENERAL NOTE:

USE OF PROPRIETARY CONCRETE WASHOUT SYSTEM MAY BE CONSIDERED IF APPROVED BY SEMSWA INSPECTOR PRIOR TO USE.

CWA — CONCRETE WASHOUT AREA — 3

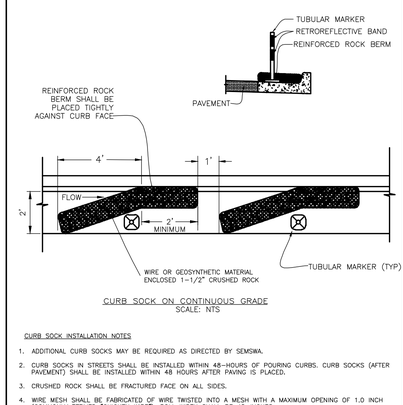


CONSTRUCTION FENCE INSTALLATION NOTES
1. SEE PLAN VIEW FOR:
   - TYPE OF CONSTRUCTION LIMIT INDICATOR (FENCE OR MARKERS).
   - LOCATION AND LENGTH OF FENCE OR LINE OF MARKERS.
2. CONSTRUCTION FENCE OR MARKERS INDICATED ON INITIAL GESC PLAN SHALL BE INSTALLED PRIOR TO OTHER CONTROL MEASURES AND ANY LAND-DISTURBING ACTIVITIES.
3. STEEL TEE POSTS SHALL BE UTILIZED FOR SUPPORT OF CONSTRUCTION FENCE. SPACING OF TEE POSTS SHALL BE APPROPRIATE TO SITE CONDITIONS.

CONSTRUCTION FENCE MAINTENANCE NOTES
1. ANY DAMAGED FENCE OR MARKERS SHALL BE REPAIRED ON A DAILY BASIS.
2. FENCE OR MARKERS SHALL BE REMOVED AT THE END OF CONSTRUCTION. IF ANY DISTURBED AREA EXISTS AFTER FENCE REMOVAL, IT SHALL BE DRILL SEEDED AND CRIMP MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY SEMSWA.

CF — CONSTRUCTION FENCE — 4

CM — CONSTRUCTION MARKERS — 5

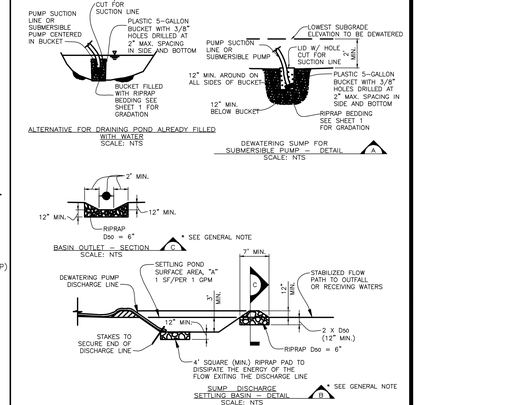


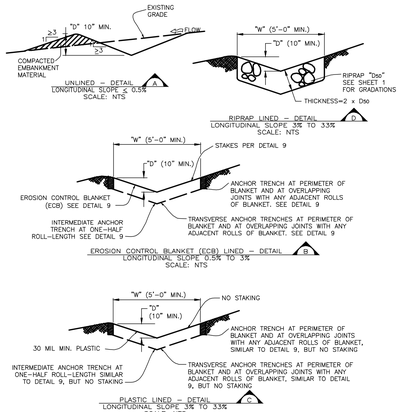
CURB SOCK ON CONTINUOUS GRADE
SCALE: NTS

CURB SOCK INSTALLATION NOTES
1. ADDITIONAL CURB SOCKS MAY BE REQUIRED AS DIRECTED BY SEMSWA.
2. CURB SOCKS IN STREETS SHALL BE INSTALLED WITHIN 48-HOURS OF POURING CURBS. CURB SOCKS (AFTER PAVEMENT) SHALL BE INSTALLED WITHIN 48 HOURS AFTER PAVING IS PLACED.
3. CRUSHED ROCK SHALL BE FRACTURED FACE ON ALL SIDES.
4. WIRE MESH SHALL BE FABRICATED OF WIRE TWISTED INTO A MESH WITH A MAXIMUM OPENING OF 1.0 INCH (COMMONLY TERMED "CHICKEN WIRE"). ROLL WIDTH SHALL BE 48-INCHES.
5. WIRE MESH SHALL BE SECURED USING "HOG RINGS" OR WIRE TIES AT APPROXIMATELY 6-INCH CENTERS ALONG ALL JOINTS AND AT APPROXIMATELY 2-INCH CENTERS ON ENDS OF BERM.
6. REINFORCED ROCK BERM SHALL BE CONSTRUCTED IN ONE PIECE OR SHALL BE CONSTRUCTED USING JOINT DETAIL.
7. EXAMPLES OF ACCEPTABLE GEOSYNTHETIC MATERIAL: TENCATE MIRAFI "MIRAGRID 2XT"; STRATA GLOBAL SOLUTIONS "STRATAGRID SG 150". SOLID FABRIC OPTIONAL.
8. THE TOP OF REINFORCED ROCK BERM SHALL BE 1/2"-1" BELOW TOP OF CURB.

CURB SOCK MAINTENANCE NOTES
1. THE GESC MANAGER SHALL INSPECT AS NECESSARY TO ENSURE THE ADEQUACY AND FUNCTIONALITY OF THE CONTROL MEASURE.
2. SEDIMENT ACCUMULATED UPSTREAM OF CURB SOCK SHALL BE REMOVED WHEN THERE IS EVIDENCE OF SIGNIFICANT SEDIMENT BUILDUP.
3. CURB PROTECTION IS TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND GRASS COVER IS APPROVED, UNLESS SEMSWA APPROVES EARLIER REMOVAL OF CURB PROTECTION IN STREETS.

CS — CURB SOCKS — 6


PUMP SUCTION LINE OR SUBMERSIBLE PUMP CENTERED IN BUCKET
LID W/ HOLE CUT FOR SUCTION LINE
PLASTIC 5-GALLON BUCKET WITH 3/8" HOLES DRILLED AT 2" MAX. SPACING IN SIDE AND BOTTOM
BUCKET FILLED WITH RIPRAP BEDDING SEE SHEET 1 FOR GRADATION
ALTERNATIVE FOR DRAINING POND ALREADY FILLED WITH WATER
SCALE: NTS
PUMP SUCTION LINE OR SUBMERSIBLE PUMP
LOWEST SUBGRADE ELEVATION TO BE DEWATERED
LID W/ HOLE CUT FOR SUCTION LINE
12" MIN. AROUND ON ALL SIDES OF BUCKET
PLASTIC 5-GALLON BUCKET WITH 3/8" HOLES DRILLED AT 2" MAX. SPACING IN SIDE AND BOTTOM
12" MIN. BELOW BUCKET
RIPRAP BEDDING SEE SHEET 1 FOR GRADATION
DEWATERING SUMP FOR SUBMERSIBLE PUMP — DETAIL A
SCALE: NTS
2" MIN.
12" MIN.
12" MIN.
RIPRAP
D50 = 6"
BASIN OUTLET — SECTION C
SCALE: NTS
* SEE GENERAL NOTE
DEWATERING PUMP DISCHARGE LINE
SETTLING POND SURFACE AREA, "A" = 1 SF/PER 1 GPM
7" MIN.
D
1/2 D
1" MIN.
12" MIN.
STABILIZED FLOW PATH



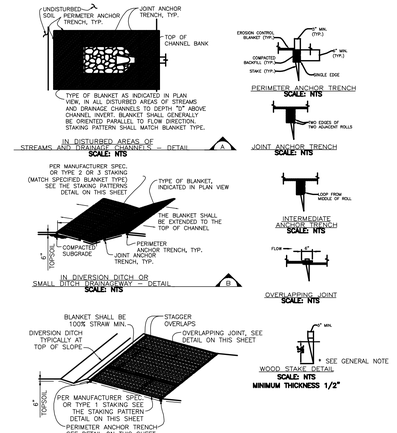
DIVERSION DITCH INSTALLATION NOTES

1. SEE PLAN VIEW FOR:
   - LOCATION OF DIVERSION DITCH.
   - TYPE OF DITCH (UNLINED, ECB LINED, PLASTIC LINED OR RIPRAP LINED).
   - LENGTH OF EACH TYPE OF DITCH.
   - DEPTH, "D", AND WIDTH, "W" DIMENSIONS.
   - FOR ECB LINED DITCH, EROSION CONTROL BLANKET TYPE (SEE DETAIL 9).
   - FOR RIPRAP LINED DITCH, SIZE OF RIPRAP, "Dso".
2. SEE DRAINAGE PLANS FOR DETAILS OF ANY PERMANENT CONVEYANCE FACILITIES OR DIVERSION DITCHES EXCEEDING A 2-YEAR FLOW RATE OF 10 CFS.
3. DIVERSION DITCHES INDICATED ON INITIAL GESC PLAN SHALL BE INSTALLED PRIOR TO ANY OTHER LAND-DISTURBING ACTIVITIES.
4. FOR ECB LINED DITCHES, INSTALLATION OF EROSION CONTROL BLANKET SHALL CONFORM TO THE REQUIREMENTS OF DETAIL 9.
5. IN LOCATIONS WHERE CONSTRUCTION TRAFFIC MUST CROSS A DIVERSION DITCH, THE PERMITTEES SHALL INSTALL A TEMPORARY CULVERT.

DIVERSION DITCH MAINTENANCE NOTES

1. THE GESC MANAGER SHALL INSPECT AS NECESSARY TO ENSURE THE ADEQUACY AND FUNCTIONALITY OF THE CONTROL MEASURE.
2. DIVERSION DITCHES ARE TO REMAIN IN PLACE UNTIL THE END OF CONSTRUCTION, OR, IF APPROVED BY SEMSWA, LEFT IN PLACE.
3. IF DIVERSION DITCHES ARE REMOVED, THE DISTURBED AREA SHALL BE DRILL SEEDED AND CRIMP MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY SEMSWA.

DD DIVERSION DITCH 8



SHALL BE IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATION. IF NO MANUFACTURER'S SPECIFICATION IS AVAILABLE USE THE ACCEPTABLE STAKING PATTERN (AS SHOWN ABOVE).

ECB EROSION CONTROL BLANKET SHEET 1 9

EROSION CONTROL BLANKET INSTALLATION NOTES

1. SEE PLAN VIEW FOR:
   - LOCATION OF PERIMETER OF EROSION CONTROL BLANKET.
   - TYPE OF BLANKET (STRAW, STRAW-COCONUT, COCONUT, OR EXCELSIOR).
   - AREA "A" IN SQUARE YARDS OF EACH TYPE OF BLANKET.
2. ALL EROSION CONTROL BLANKETS, STAKES, AND NETTING SHALL BE MADE OF 100% NATURAL AND BIODEGRADABLE MATERIAL; NO PLASTIC OR OTHER SYNTHETIC MATERIAL, INCLUDING PHOTO-DEGRADABLE, SHALL BE ALLOWED.
3. IN AREAS WHERE EROSION CONTROL BLANKET IS SHOWN ON THE PLANS, THE PERMITTEE SHALL PLACE TOPSOIL AND PERFORM FINAL GRADING, SURFACE PREPARATION, AND SEEDING BELOW THE BLANKET IN ACCORDANCE WITH THE REQUIREMENTS OF DETAIL 19, SEEDING AND MULCHING. SUBGRADE SHALL BE SMOOTH AND MOIST PRIOR TO BLANKET INSTALLATION AND THE BLANKET SHALL BE IN FULL CONTACT WITH SUBGRADE. NO GAPS OR VOIDS SHALL EXIST UNDER THE BLANKET.
4. PERIMETER ANCHOR TRENCH SHALL BE USED AT OUTSIDE PERIMETER OF ALL BLANKET AREAS. FOLLOW ALL MANUFACTURES INSTALLATION SPECIFICATIONS.
5. INTERMEDIATE ANCHOR TRENCH SHALL BE USED AT SPACING OF ONE-HALF THE ROLL LENGTH FOR COCONUT AND EXCELSIOR BLANKETS.
6. MATERIAL SPECIFICATIONS OF EROSION CONTROL BLANKET SHALL CONFORM TO TABLE 7.1.
7. ANY AREAS OF SEEDING AND MULCHING DISTURBED IN THE PROCESS OF INSTALLING EROSION CONTROL BLANKET SHALL BE RESEEDED AND MULCHED IN ACCORDANCE WITH DETAIL 19.
8. SEE DRAINAGE DESIGN PLANS FOR MAJOR DRAINAGEWAY STABILIZATION MEASURES THAT MAY EXCEED THE DESIGN CONDITIONS ASSOCIATED WITH THE DETAILS ABOVE.

TABLE 7.1 – EROSION CONTROL BLANKET TYPE

TYPE	COCONUT CONTENT	STRAW CONTENT	EXCELSIOR CONTENT	NETTING MIN.
STRAW*	–	100%	–	DOUBLE/NATURAL
STRAW–COCONUT	30% MIN.	70% MAX.	–	DOUBLE/NATURAL
COCONUT	100%	–	–	DOUBLE/NATURAL
EXCELSIOR	–	–	100%	DOUBLE/NATURAL

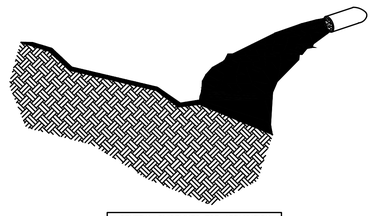
* FOR OUTSIDE OF STREAMS AND DRAINAGE CHANNELS

EROSION CONTROL BLANKET MAINTENANCE NOTES

1. THE GESC MANAGER SHALL INSPECT AS NECESSARY TO ENSURE THE ADEQUACY AND FUNCTIONALITY OF THE CONTROL MEASURE.
2. EROSION CONTROL BLANKET IS TO BE LEFT IN PLACE UNLESS REQUESTED TO BE REMOVED BY SEMSWA.
3. ANY EROSION CONTROL BLANKET PULLED OUT, TORN, OR OTHERWISE DAMAGED SHALL BE RE-INSTALLED. ANY SUBGRADE AREAS BELOW THE BLANKET THAT HAVE ERODED TO CREATE A VOID UNDER THE BLANKET, OR THAT REMAIN DEVOID OF GRASS SHALL BE REPAIRED, RESEEDED AND MULCHED AND THE EROSION CONTROL BLANKET REINSTALLED.
4. REMOVAL OF 2X4 WEDGE STAKES MAY BE REQUIRED PRIOR TO FINAL CLOSE OUT OF THE GESC PERMIT.

GENERAL NOTE:
ECO-STAKES MAY BE USED IN AREAS ABOVE ORDINARY HIGH WATER MARK.

ECB EROSION CONTROL BLANKET SHEET 2 9



GENERAL GUIDELINES FOR APPLICATION RATES FOR SLOPE INSTALLATIONS

SLOPE CONDITION	APPLICATION RATE
≤3H:1V	3000 LB/ACRE

FLEXIBLE GROWTH MEDIUM INSTALLATION NOTES:

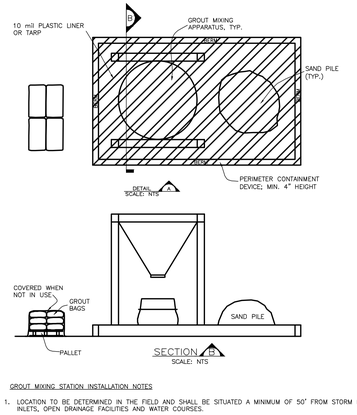
1. IN AREAS WHERE THE FLEXIBLE GROWTH MEDIUM IS SHOWN ON THE PLANS, THE PERMITTEE(S) SHALL PLACE TOPSOIL AND PERFORM FINAL GRADING, SURFACE PREPARATION, AND SEEDING BELOW THE BLANKET IN ACCORDANCE WITH THE GESC PLAN STANDARD NOTES AND DETAILS, SEEDING AND MULCHING. APPLY THE FLEXIBLE GROWTH MEDIUM TO GEOTECHNICALLY STABLE SLOPES THAT HAVE BEEN DESIGNED AND CONSTRUCTED TO DIVERT RUNOFF AWAY FROM THE FACE OF THE SLOPE. DO NOT PROCEED WITH INSTALLATION UNTIL SATISFACTORY CONDITIONS ARE ESTABLISHED.
2. HYDROSEEDING IS NOT ALLOWED. PLEASE FOLLOW SEED AND MULCH DETAIL (DETAIL 19).
3. MIX AND APPLY PER MANUFACTURERS DETAILS. FRESHLY SEEDED SURFACES AND DO NOT LEAVE SEEDED SURFACES UNPROTECTED. CONFIRM LOADING RATES WITH EQUIPMENT MANUFACTURER.
4. APPLY FGM FROM OPPOSING DIRECTIONS TO ASSURE 100% SOIL SURFACE COVERAGE. SLOPE DEVICES OR WATER DIVERSION TECHNIQUES ARE RECOMMENDED WHEN SLOPE LENGTHS EXCEED 75 FT.
5. ANY AREAS OF SEEDING AND MULCHING DISTURBED IN THE PROCESS OF INSTALLING FGM SHALL BE RESEEDED AND MULCHED IN ACCORDANCE WITH DETAIL 19.

NOTE:
THE FLEXIBLE GROWTH MEDIUM SHOULD NOT BE APPLIED IN CHANNELS, SWALES OR OTHER AREAS WHERE CONCENTRATED FLOWS ARE ANTICIPATED, UNLESS INSTALLED IN CONJUCTION WITH A TEMPORARY EROSION CONTROL BLANKET.

FLEXIBLE GROWTH MEDIUM MAINTENANCE NOTES:

1. THE GESC MANAGER SHALL INSPECT FLEXIBLE GROWTH MEDIUMS WEEKLY AND DURING AND AFTER ANY STORM EVENT AND MAKE REPAIRS AS NECESSARY.
2. FLEXIBLE GROWTH MEDIUM SHALL BE LEFT IN PLACE UNLESS REQUESTED TO BE REMOVED BY THE COUNTY.
3. DO NOT LEAVE SEEDED SURFACES UNPROTECTED, ESPECIALLY IF PRECIPITATION IS IMMINENT.
4. ANY DAMAGED FLEXIBLE GROWTH MEDIUM SHALL BE RE-INSTALLED.

FGM FLEXIBLE GROWTH MEDIUM 10



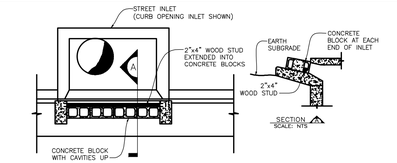
GROUT MIXING STATION INSTALLATION NOTES

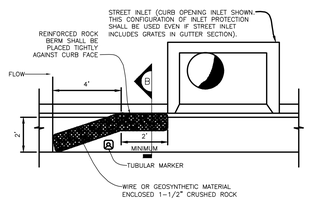
1. LOCATION TO BE DETERMINED IN THE FIELD AND SHALL BE SITUATED A MINIMUM OF 50' FROM STORM DRAIN INLETS, OPEN DRAINAGE FACILITIES AND WATER COURSES.
2. AREA TO BE LARGE ENOUGH TO PROVIDE ADEQUATE CONTAINMENT OFF ALL MIXING OPERATIONS.
3. MIXING AREA TO HAVE PERIMETER CONTAINMENT, A MINIMUM OF 4" IN HEIGHT. CONTAINMENT DEVICE CAN BE CONSTRUCTED OF AN EARTHEN BERM, CONCRETE BLOCKS, WOOD FRAME SECURELY FASTENED AROUND PERIMETER AREA OR OTHER APPROVED METHOD. MUST BE SIZED TO ADEQUATELY CONTAIN MIXING OPERATION.
4. EXCAVATED MATERIAL MAY BE USED IN PERIMETER BERM CONSTRUCTION.
5. MINIMUM 10 MIL PLASTIC LINER OR TARP SHALL COVER THE ENTIRE MIXING AREA SECURELY FASTENED TO THE RAISED CONTAINMENT DEVICE.

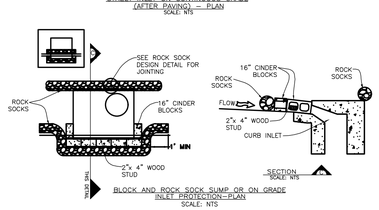
GROUT MIXING STATION MAINTENANCE NOTES

1. THE GESC MANAGER SHALL INSPECT AS NECESSARY TO ENSURE THE ADEQUACY AND FUNCTIONALITY OF THE CONTROL MEASURE.
2. ALL GROUT/ MORTAR WASHOUT SHALL BE IN AN APPROVED CONCRETE WASHOUT AREA (CWA).
3. ALL MATERIALS SHALL BE STORED AND COVERED ON PALLETS ADJACENT TO THE MIXING AREA.
4. LINER AND ALL GROUT/ MORTAR WASTE RESIDUE SHALL BE PROPERLY DISPOSED OF AT THE END OF THE MIXING OPERATION.

GMS GROUT MIXING STATION 11







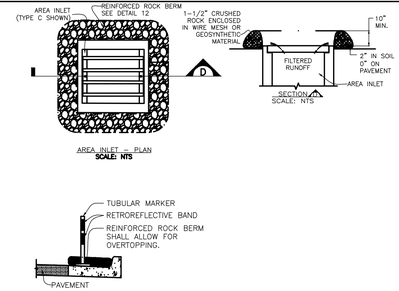
INLET PROTECTION INSTALLATION NOTES

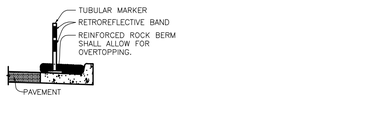
1. INTERIM CONFIGURATION OF INLET PROTECTION IN STREETS SHALL BE INSTALLED IMMEDIATELY BEFORE POURING INLET. INLET PROTECTION (AFTER PAVEMENT) SHALL BE INSTALLED IMMEDIATELY AFTER PAVING IS PLACED.
2. INLET PROTECTION AT AREA INLETS SHALL BE INSTALLED IMMEDIATELY AFTER POURING INLET.
3. 1–1/2" CRUSHED ROCK SHALL BE FRACTURED FACE ON ALL SIDES.
4. WIRE MESH SHALL BE FABRICATED OF WIRE TWISTED INTO A MESH WITH A MAXIMUM OPENING OF 1.0 INCH (COMMONLY TERMED "CHICKEN WIRE").
5. WIRE MESH SHALL BE SECURED USING "HOG RINGS" OR WIRE TIES AT APPROXIMATELY 6–INCH CENTERS ALONG ALL JOINTS AND AT APPROXIMATELY 2–INCH CENTERS ON ENDS OF BERM.
6. EXAMPLES OF ACCEPTABLE GEOSYNTHETIC MATERIAL: TENCATE MIRAFI "MIRAGRID 2XT"; STRATA GLOBAL SOLUTIONS "STRATAGRID SG 150". SOLID FABRIC OPTIONAL.
7. TUBULAR MARKERS SHALL BE PLACED ON EACH END OF THE INLET PROTECTION LOCATED ON STREETS WHERE PUBLIC ACCESS CAN OCCUR.
8. THE TOP OF REINFORCED ROCK BERM SHALL ALLOW FOR OVERTOPPING INTO THE INLET.

INLET PROTECTION MAINTENANCE NOTES

1. THE GESC MANAGER SHALL INSPECT AS NECESSARY TO ENSURE THE ADEQUACY AND FUNCTIONALITY OF THE CONTROL MEASURE.
2. SEDIMENT ACCUMULATED UPSTREAM OF INLET PROTECTION SHALL BE REMOVED WHEN THERE IS EVIDENCE OF SIGNIFICANT SEDIMENT BUILDUP.
3. INLET PROTECTION IS TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND GRASS COVER IS APPROVED, UNLESS SEMSWA APPROVES EARLIER REMOVAL OF INLET PROTECTION IN STREETS.
4. WHEN INLET PROTECTION AT AREA INLETS ARE REMOVED, THE DISTURBED AREA SHALL BE DRILL SEEDED AND CRIMP MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY SEMSWA.

IP INLET PROTECTION SHEET 1 12





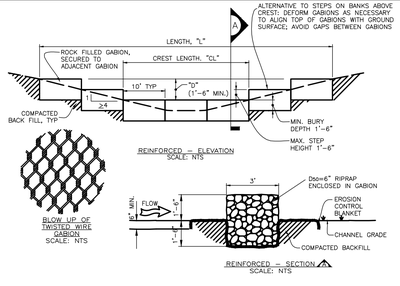
INLET PROTECTION INSTALLATION NOTES

1. INTERIM CONFIGURATION OF INLET PROTECTION IN STREETS SHALL BE INSTALLED IMMEDIATELY BEFORE POURING INLET. INLET PROTECTION (AFTER PAVEMENT) SHALL BE INSTALLED IMMEDIATELY AFTER PAVING IS PLACED.
2. INLET PROTECTION AT AREA INLETS SHALL BE INSTALLED IMMEDIATELY AFTER POURING INLET.
3. 1–1/2" CRUSHED ROCK SHALL BE FRACTURED FACE ON ALL SIDES.
4. WIRE MESH SHALL BE FABRICATED OF WIRE TWISTED INTO A MESH WITH A MAXIMUM OPENING OF 1.0 INCH (COMMONLY TERMED "CHICKEN WIRE").
5. WIRE MESH SHALL BE SECURED USING "HOG RINGS" OR WIRE TIES AT APPROXIMATELY 6–INCH CENTERS ALONG ALL JOINTS AND AT APPROXIMATELY 2–INCH CENTERS ON ENDS OF BERM.
6. EXAMPLES OF ACCEPTABLE GEOSYNTHETIC MATERIAL: TENCATE MIRAFI "MIRAGRID 2XT"; STRATA GLOBAL SOLUTIONS "STRATAGRID SG 150". SOLID FABRIC OPTIONAL.
7. TUBULAR MARKERS SHALL BE PLACED ON EACH END OF THE INLET PROTECTION LOCATED ON STREETS WHERE PUBLIC ACCESS CAN OCCUR.
8. THE TOP OF REINFORCED ROCK BERM SHALL ALLOW FOR OVERTOPPING INTO THE INLET.

INLET PROTECTION MAINTENANCE NOTES

1. THE GESC MANAGER SHALL INSPECT AS NECESSARY TO ENSURE THE ADEQUACY AND FUNCTIONALITY OF THE CONTROL MEASURE.
2. SEDIMENT ACCUMULATED UPSTREAM OF INLET PROTECTION SHALL BE REMOVED WHEN THERE IS EVIDENCE OF SIGNIFICANT SEDIMENT BUILDUP.
3. INLET PROTECTION IS TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND GRASS COVER IS APPROVED, UNLESS SEMSWA APPROVES EARLIER REMOVAL OF INLET PROTECTION IN STREETS.
4. WHEN INLET PROTECTION AT AREA INLETS ARE REMOVED, THE DISTURBED AREA SHALL BE DRILL SEEDED AND CRIMP MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY SEMSWA.

IP INLET PROTECTION SHEET 2 12



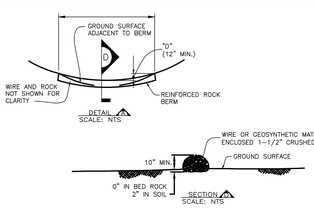
REINFORCED CHECK DAM INSTALLATION NOTES

1. SEE PLAN VIEW FOR:
   - LOCATIONS OF CHECK DAMS.
   - CHECK DAM TYPE (CHECK DAM OR REINFORCED CHECK DAM).
   - LENGTH, "L", CREST LENGTH, "CL", AND DEPTH, "D".
2. REINFORCED CHECK DAMS INDICATED ON INITIAL GESC PLAN SHALL BE INSTALLED PRIOR TO ANY UPSTREAM LAND–DISTURBING ACTIVITIES.
3. REINFORCED CHECK DAM GABIONS SHALL HAVE GALVANIZED TWISTED WIRE NETTING WITH A MAXIMUM APPROPRIATE GAUGE TO WITHSTAND ANTICIPATED FLOWS. WIRE "HOG RINGS" AT 4" SPACING OR OTHER APPROVED MEANS SHALL BE USED AT ALL GABION SEAMS AND TO SECURE THE GABION TO THE ADJACENT GABION.
4. VL RIP RAP SHALL BE UTILIZED FOR CHECK DAMS.
5. RIP RAP PAD SHALL BE TRENCHED INTO THE CHANNEL BANKS TO ADEQUATELY ANCHOR WITH CENTER OF CHECK DAM LOWER TO ALLOW FOR OVERTOPPING AT THE CREST.

REINFORCED CHECK DAM MAINTENANCE NOTES

1. THE GESC MANAGER SHALL INSPECT AS NECESSARY TO ENSURE THE ADEQUACY AND FUNCTIONALITY OF THE CONTROL MEASURE.
2. SEDIMENT ACCUMULATED UPSTREAM OF CHECK DAMS SHALL BE REMOVED WHEN THE SEDIMENT DEPTH UPSTREAM OF CHECK DAM IS WITHIN 1/2 OF THE HEIGHT OF THE CREST.
3. CHECK DAMS ARE TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND GRASS COVER IS APPROVED BY SEMSWA.
4. WHEN CHECK DAMS ARE REMOVED, EXCAVATIONS SHALL BE FILLED WITH SUITABLE COMPACTED BACK FILL. ANY DISTURBED AREA SHALL BE DRILL SEEDED AND CRIMP MULCHED AND COVERED WITH EROSION CONTROL BLANKET OR OTHERWISE STABILIZED IN A MANNER APPROVED BY SEMSWA.

RCD REINFORCED CHECK DAM 13



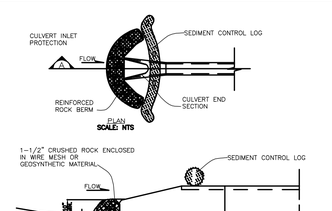
REINFORCED ROCK BERM INSTALLATION NOTES

1. SEE PLAN VIEW FOR:
   - LOCATIONS OF REINFORCED ROCK BERMS.
   - LENGTH, "L", AND DEPTH, "D" DIMENSIONS.
2. REINFORCED ROCK BERM SECTION APPLIES TO CULVERT INLET FILTER AND INLET PROTECTION.
3. 1–1/2" CRUSHED ROCK SHALL BE FRACTURED FACE ON ALL SIDES.
4. WIRE MESH SHALL BE FABRICATED OF 10 GAUGE WIRE TWISTED INTO A MESH WITH A MAXIMUM OPENING OF 1.0 INCH (COMMONLY TERMED "CHICKEN WIRE"), ROLL WIDTH SHALL BE 48–INCHES.
5. WIRE MESH SHALL BE SECURED USING "HOG RINGS" OR WIRE TIES AT 6–INCH CENTERS ALONG ALL JOINTS AND AT 2–INCH CENTERS ON ENDS OF BERM.
6. FOR CONCENTRATED FLOW AREAS THE ENDS OF THE REINFORCED ROCK BERM SHALL BE 12" HIGHER THAN THE CENTER OF THE BERM.

REINFORCED ROCK BERM MAINTENANCE NOTES

1. THE GESC MANAGER SHALL INSPECT AS NECESSARY TO ENSURE THE ADEQUACY AND FUNCTIONALITY OF THE CONTROL MEASURE.
2. SEDIMENT ACCUMULATED UPSTREAM OF REINFORCED ROCK BERM SHALL BE REMOVED WHEN THE SEDIMENT DEPTH UPSTREAM OF FILTER IS WITHIN APPROXIMATELY 1/2 OF THE HEIGHT OF THE CREST.
3. REINFORCED ROCK BERMS ARE TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND GRASS COVER IS APPROVED.
4. WHEN REINFORCED ROCK BERMS ARE REMOVED, ANY DISTURBED AREA SHALL BE DRILL SEEDED AND CRIMP MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY SEMSWA.

RRB REINFORCED ROCK BERM 14



INSTALLATION NOTES

1. SEE PLAN VIEW FOR:
   - LOCATIONS OF CULVERT INLET FILTERS.
   - AND DEPTH, "D".
2. 1–1/2" CRUSHED ROCK SHALL BE FRACTURED FACE ON ALL SIDES.
3. WIRE MESH SHALL BE FABRICATED OF WIRE TWISTED INTO A MESH WITH A MAXIMUM OPENING OF 1.0 INCH (COMMONLY TERMED "CHICKEN WIRE").
4. WIRE MESH SHALL BE SECURED USING "HOG RINGS" OR WIRE TIES AT APPROXIMATELY 6–INCH CENTERS ALONG ALL JOINTS AND AT APPROXIMATELY 2–INCH CENTERS ON ENDS OF BERM.
5. THE ENDS OF THE REINFORCED ROCK BERM SHALL BE HIGHER THAN THE CENTER OF THE BERM AND ALLOW FOR ADEQUATE OVERTOPPING CAPACITY IN THE CENTER.

MAINTENANCE NOTES

1. THE GESC MANAGER SHALL INSPECT AS NECESSARY TO ENSURE THE ADEQUACY AND FUNCTIONALITY OF THE CONTROL MEASURE.
2. SEDIMENT ACCUMULATED UPSTREAM OF CULVERT INLET FILTER SHALL BE REMOVED WHEN THE SEDIMENT DEPTH UPSTREAM OF FILTER IS 1/2 THE HEIGHT OF THE REINFORCED ROCK BERM.
3. RRB FOR CULVERT PROTECTION ARE TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND GRASS COVER IS APPROVED BY SEMSWA.
4. WHEN CULVERT INLET FILTERS ARE REMOVED, ANY DISTURBED AREA SHALL BE SEEDED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY SEMSWA.

RRC RRB FOR CULVERT PROTECTION 15

UTILITY NOTIFICATION CENTER OF COLORADO
CALL BEFORE YOU DIG
811
Call 2 days prior to any digging, grading or excavating for the marking of underground member utilities

SOUTHEAST METRO STORMWATER AUTHORITY
7437 SOUTH FAIRPLAY STREET
CENTENNIAL COLORADO
80112-4486
(303) 858-8844 - INSPECTION DIVISION

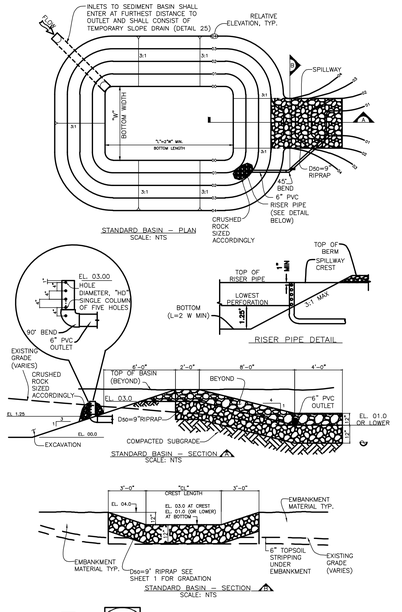
Southeast Metro Stormwater Authority

ARAPAHOE COUNTY
COLORADO'S FIRST

GRADING EROSION AND SEDIMENT CONTROL STANDARD NOTES AND DETAILS REVISED FEBRUARY 2023

GESC SHEET 2 OF 4

DWG. NUMBER 1001-02-002-040 SHEET 91 OF 95



SB SEDIMENT BASIN SHEET 1 16

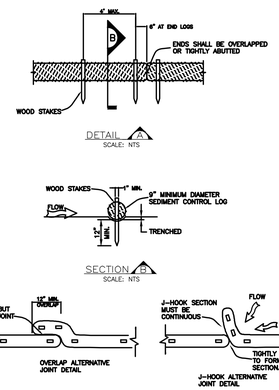
SEDIMENT BASIN INSTALLATION NOTES

1. SEE PLAN VIEW FOR:
   - LOCATION OF SEDIMENT BASIN.
   - TYPE OF BASIN (STANDARD BASIN OR NON-STANDARD BASIN).
   - FOR STANDARD BASIN, CREST LENGTH, "CL", BOTTOM WIDTH, "W", AND HOLE DIAMETER, "HD".
   - FOR NON-STANDARD BASIN, SEE CONSTRUCTION DRAWINGS FOR DESIGN OF BASIN INCLUDING RISER HEIGHT, "H", NUMBER OF COLUMNS, "N", HOLE DIAMETER, "HD", AND PIPE DIAMETER "D".
2. FOR STANDARD BASIN, BOTTOM DIMENSION MAY BE MODIFIED AS LONG AS BOTTOM AREA IS NOT REDUCED.
3. SEDIMENT BASINS INDICATED ON INITIAL GESC PLAN SHALL BE INSTALLED PRIOR TO ANY OTHER LAND-DISTURBING ACTIVITY.
4. EMBANKMENT MATERIAL SHALL CONSIST OF SOIL FREE OF DEBRIS, ORGANIC MATERIAL, AND ROCKS GREATER THAN 3 INCHES AND SHALL HAVE A MINIMUM OF 15 PERCENT BY WEIGHT PASSING THE NO. 200 SIEVE.
5. EMBANKMENT MATERIAL SHALL BE COMPACTED TO AT LEAST 90 PERCENT OF MAXIMUM DENSITY WITHIN 2 PERCENTAGE POINTS OF OPTIMUM DENSITY IN ACCORDANCE WITH ASTM D698.
6. PIPE SCH 40 OR GREATER SHALL BE USED.
7. THE DETAILS SHOWN ON THIS SHEET PERTAIN TO STANDARD SEDIMENT BASIN(S) IDENTIFIED ON THE GESC PLAN VIEW DRAWINGS USED FOR DRAINAGE AREAS LESS THAN 15 ACRES. SEE CONSTRUCTION DRAWINGS FOR EMBANKMENT, STORAGE VOLUME, SPILLWAY, OUTLET, AND OUTLET PROTECTION DETAILS FOR ANY SEDIMENT BASIN(S) THAT HAVE BEEN INDIVIDUALLY DESIGNED FOR DRAINAGE AREAS LARGER THAN 15 ACRES.

SEDIMENT BASIN MAINTENANCE NOTES

1. THE GESC MANAGER SHALL INSPECT AS NECESSARY TO ENSURE THE ADEQUACY AND FUNCTIONALITY OF THE CONTROL MEASURE.
2. SEDIMENT SHALL BE REMOVED FROM THE POND WHEN DESIGNED STORAGE VOLUME IS NO MORE THAN ONE-THIRD FILLED WITH SEDIMENT.
3. SEDIMENT BASINS ARE TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND GRASS COVER IS APPROVED BY SEMSWA.
4. IF SEDIMENT BASINS ARE REMOVED, THE DISTURBED AREA SHALL BE SEEDED AND MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY SEMSWA.
5. TRASH AND DEBRIS SHALL BE REMOVED FROM THE SEDIMENT BASIN TO PREVENT CLOGGING AT THE OUTLET.

SB SEDIMENT BASIN SHEET 2 16



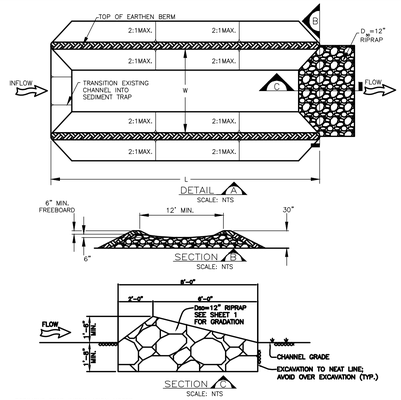
SEDIMENT CONTROL LOG INSTALLATION NOTES

1. SEE PLAN VIEW FOR:
   - LOCATION AND LENGTH OF SEDIMENT CONTROL LOG.
2. SEDIMENT CONTROL LOGS INDICATED ON INITIAL GESC PLAN SHALL BE INSTALLED PRIOR TO ANY LAND-DISTURBING ACTIVITIES.
3. SEDIMENT CONTROL LOGS SHALL CONSIST OF STRAW, COMPOST, EXCELSIOR, OR COCONUT FIBER.
4. NOT FOR USE IN CONCENTRATED FLOW AREAS.
5. THE SEDIMENT CONTROL LOG SHALL BE TRENCHED IN APPROPRIATELY.
6. 9" DIAMETER SEDIMENT CONTROL LOGS ARE THE MINIMUM BUT A LARGER DIAMETER MAY BE REQUIRED BY THE SEMSWA INSPECTOR.

SEDIMENT CONTROL LOG MAINTENANCE NOTES

1. THE GESC MANAGER SHALL INSPECT AS NECESSARY TO ENSURE THE ADEQUACY AND FUNCTIONALITY OF THE CONTROL MEASURE.
2. SEDIMENT ACCUMULATED UPSTREAM OF SEDIMENT CONTROL LOGS SHALL BE REMOVED WHEN THE UPSTREAM SEDIMENT DEPTH IS WITHIN 1/2 THE HEIGHT OF THE CREST OF LOG.
3. SEDIMENT CONTROL LOG SHALL BE REMOVED AT THE END OF CONSTRUCTION, IF ANY DISTURBED AREA EXISTS AFTER REMOVAL, IT SHALL BE STABILIZED IN A MANNER APPROVED BY THE SEMSWA INSPECTOR.

SCL SEDIMENT CONTROL LOG 17



SEDIMENT TRAP INSTALLATION NOTES

1. SEE PLAN VIEW FOR:
   - LOCATION, LENGTH AND WIDTH OF SEDIMENT TRAP.
2. SEDIMENT TRAPS INDICATED ON INITIAL GESC PLAN SHALL BE INSTALLED PRIOR TO ANY OTHER LAND-DISTURBING ACTIVITIES.
3. SEDIMENT TRAP BERM SHALL BE CONSTRUCTED FROM MATERIAL FROM EXCAVATION. THE BERM SHALL BE COMPACTED TO 95% OF THE MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D698.
4. RIPRAP OUTLET SHALL BE CONSTRUCTED WITH D_{50} =12" RIPRAP WITH A MINIMUM OVERFLOW OF 6".
5. THE TOP OF THE EARTHEN BERM SHALL ALLOW FOR OVERTOPPING.
6. THE ENDS OF THE RIPRAP OUTLET STRUCTURE SHALL ALLOW FOR OVERTOPPING.
7. OVERTOPPING MUST OCCUR ON A STABILIZED SURFACE TO INCLUDE WELL VEGETATED AREAS, RIP RAP, OR PAVEMENT.
8. SEDIMENT TRAP SIZED TO PROVIDE STORAGE VOLUME EQUAL TO 1800 CUBIC FEET PER UPSTREAM ACRE.

SEDIMENT TRAP MAINTENANCE NOTES

1. THE GESC MANAGER SHALL INSPECT AS NECESSARY TO ENSURE THE ADEQUACY AND FUNCTIONALITY OF THE CONTROL MEASURE.
2. SEDIMENT ACCUMULATED UPSTREAM OF RIPRAP SHALL BE REMOVED WHEN THE UPSTREAM SEDIMENT DEPTH IS WITHIN 1/2 THE HEIGHT OF THE RIPRAP OUTLET STRUCTURE.
3. SEDIMENT TRAPS SHALL REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND GRASS COVERAGE IS APPROVED BY SEMSWA.
4. WHEN SEDIMENT TRAPS ARE REMOVED THE DISTURBED AREA SHALL BE DRILLED SEEDED AND CRIMP MULCHED OR STABILIZED IN A MANNER APPROVED BY SEMSWA.

ST SEDIMENT TRAP 18

SEEDING AND MULCHING INSTALLATION NOTES

1. SEE PLAN VIEW FOR:
   - — AREA OF SEEDING AND MULCHING.
   - — TYPE OF SEED MIX.
2. ALL BRANDS FURNISHED SHALL BE FREE FROM SUCH NOXIOUS SEEDS AS RUSSIAN OR CANADIAN THISTLE, COARSE FESCUE, EUROPEAN BINDWEED, JOHNSON GRASS, KNAP WEED AND LEAFY SPURGE.
3. THE SEEDER SHALL FURNISH TO THE CONTRACTOR A SIGNED STATEMENT CERTIFYING THAT THE SEED FURNISHED IS FROM A LOT THAT HAS BEEN TESTED BY A RECOGNIZED LABORATORY. SEED WHICH HAS BECOME WET, MOLDY, OR OTHERWISE DAMAGED IN TRANSIT OR IN STORAGE WILL NOT BE ACCEPTABLE. SEED TICKETS SHALL BE PROVIDED TO SEMSWA UPON REQUEST.
4. DRILL SEEDING MIX SHALL CONFORM TO THE TABLE BELOW UNLESS OTHERWISE APPROVED BY SEMSWA.
5. IF THE SEED AVAILABLE ON THE MARKET DOES NOT MEET THE MINIMUM PURITY AND GERMINATION PERCENTAGES SPECIFIED, THE CONTRACTOR MUST COMPENSATE FOR A LESSER PERCENTAGE OF PURITY OR GERMINATION BY FURNISHING SUFFICIENT ADDITIONAL SEED TO EQUAL THE SPECIFIED PRODUCT. THE TAGS FROM THE SEED MIXES MUST BE SUPPLIED TO CONTRACTOR AND FORWARDED TO THE SEMSWA GESC INSPECTOR.
6. THE FORMULA USED FOR DETERMINING THE QUANTITY OF PURE LIVE SEED (PLS) SHALL BE (POUNDS OF SEED) X (PURITY) X (GERMINATION) = POUNDS OF PURE LIVE SEED (PLS).
7. PERMANENT SEED MIX SHALL BE USED UNLESS OTHERWISE APPROVED BY SEMSWA.
8. ALL AREAS TO BE SEEDED AND MULCHED SHALL HAVE NATIVE TOPSOIL OR APPROVED SOIL AMENDMENTS SPREAD TO A DEPTH OF AT LEAST 6 INCHES (LOOSE DEPTH). ALL DISTURBED AREAS SHALL BE LOOSENED TO A DEPTH OF 6 INCHES PRIOR TO SPREADING TOPSOIL.
9. SOIL IS TO BE THOROUGHLY LOOSENED (TILLED) TO A DEPTH OF AT LEAST 6 INCHES PRIOR TO SEEDING. THE TOP 6 INCHES OF THE SEED BED SHALL BE GENERALLY FREE OF ROCKS GREATER THAN 4 INCHES AND SOIL CLODS GREATER THAN 2 INCHES. SEEDING OVER ANY COMPACTED AREAS THAT HAVEN'T BEEN THOROUGHLY LOOSENED SHALL BE REJECTED.
10. SEED IS TO BE APPLIED USING A MECHANICAL DRILL TO A DEPTH OF 1/4 INCH. ROW SPACING SHALL BE NO MORE THAN 6 INCHES. MATERIAL USED FOR MULCH SHALL CONSIST OF LONG-STEMMED STRAW. AT LEAST 50 PERCENT OF THE MULCH, BY WEIGHT, SHALL BE AS LONG AS POSSIBLE IN LENGTH. MULCH SHALL BE APPLIED AND MECHANICALLY ANCHORED TO A DEPTH OF AT LEAST 3 INCHES. MULCH SHALL BE APPLIED AT A RATE OF 2000 LB. OF STRAW PER ACRE.
11. IF THE PERMITTEE DEMONSTRATES TO SEMSWA THAT IT IS NOT POSSIBLE TO DRILL SEED, SEED IS TO BE UNIFORMLY BROADCAST AT NO LESS THAN TWICE THE DRILLED RATE. THEN LIGHTLY HARROWED TO PROVIDE A SEED DEPTH OF APPROXIMATELY 1/4 INCH, THEN ROLLED TO COMPACT, THEN MULCHED AS SPECIFIED ABOVE.
12. WHEN SEEDING AND MULCHING IS USED TO STABILIZED DISTURBED AREAS, ALL DISTURBED AREAS WHICH ARE EITHER FINAL GRADED, OR WILL REMAIN INACTIVE FOR A PERIOD OF MORE THAN 30 DAYS SHALL BE REQUIRED TO BE STABILIZED WITHIN 14 DAYS OF THE COMPLETION OF THE GRADING ACTIVITIES. THIS MAY REQUIRED MULTIPLE MOBILIZATIONS FOR SEEDING AND MULCHING.
13. MULCH SHALL BE APPLIED WITHIN 24-HOURS OF SEEDING.
14. TACKIFIER SHALL BE UTILIZED TO HELP WITH STRAW DISPLACEMENT.

SEEDING AND MULCHING MAINTENANCE NOTES

1. SEEDED AND MULCHED AREAS SHALL BE INSPECTED FOR REQUIRED COVERAGE MONTHLY UNTIL FINAL ACCEPTANCE IS ISSUED. REPAIRS AND RE-SEEDING AND MULCHING SHALL BE UNDERTAKEN AFTER THE FIRST GROWING SEASON FOR ANY AREAS FAILING TO MEET THE REQUIRED COVERAGE.
2. REQUIRED COVERAGE FOR STANDARD, OPEN SPACE AND LOW GROWTH SEED MIXES SHALL BE DEFINED AS FOLLOWS:
   - 70% OF THE EXISTING/ PRE-CONSTRUCTION CONDITION.
   - FREE OF ERODED AREAS.
   - FREE FROM INFESTATION OF NOXIOUS WEEDS IN ACCORDANCE WITH THE GESC CRITERIA MANUAL.
3. RILL AND GULLY EROSION SHALL BE FILLED WITH TOPSOIL PRIOR TO RESEEDING. THE RESEEDING METHOD SHALL BE APPROVED BY SEMSWA.

TEMPORARY DRILL SEEDING MIX

SPECIES	VARIETY	NOTES	% IN MIX	POUNDS OF PLS PER ACRE
SMOOTH BROMEGRASS	LINCOLN	P|CS	30	3.9
INTERMEDIATE WHEATGRASS	OAHE	P|CS	30	4.5
PUBESCENT WHEATGRASS	LUNA	P|CS	30	4.2
ANNUAL RYEGRASS	N/A	A|CB	10	0.8
		TOTAL	100	13.4

NOTES: P=PERENNIAL A=ANNUAL I=INTRODUCED C=COOL SEASON S=SOD FORMER B=BUNCHGRASS

SM SEEDING AND MULCHING 19

PERMANENT DRILL SEEDING — WETLAND SEED MIX[1]

SPECIES	SCIENTIFIC NAME	SEASON	% IN MIX	SEEDS/LB.	LBS PLS[2]/AC
SLOUGH GRASS	BECHMANNIA SYZIGACHNE	COOL	20	1,150,000	0.5
CANADIAN REED GRASS	CALAMAGROSTIS CANADENSIS	COOL	20	2,270,000	0.2
TUFTED HAIR GRASS	DESCHAMPSIA CESPITOSA	COOL	10	2,500,000	0.1
COMMON SPIKE RUSH	ELEOCHARIS PALUSTRIS	COOL	15	620,000	0.6
BALTIC RUSH	JUNCUS BALTICUS	COOL	15	10,900,000	0.4
KNOTTED RUSH	JUNCUS NODOSUS	COOL	10	12,300,000	0.1
TORREY'S RUSH	JUNCUS TORREYI	COOL	10	12,300,000	0.1
TOTAL			100	2 LBS PLS[2]/AC	

[1] TO BE INSTALLED AT APPROXIMATELY 0" TO 6" ABOVE WATER LINE.
[2] PLS = PURE LIVE SEED PER POUND BASED 60 SEEDS PER SQUARE FOOT. IF BROADCAST SEEDING, DOUBLE THE RATE APPLIED.

PERMANENT DRILL SEEDING[18] — TRANSITION SEED MIX — WITHOUT FORBS

SPECIES	SCIENTIFIC NAME	SEASON	% IN MIX	SEEDS/LB.	LBS PLS[2]/AC
CANADA WILDRYE	ELYMUS CANADENSIS	COOL	15	115,000	3.4
STREAMBANK WHEATGRASS	ELYMUS LANCEOLATUS SPP. PSAMMOPHILUS	COOL	15	156,000	2.5
SLENDER WHEAT GRASS	ELYMUS TRACHYCAULUS	WARM	10	159,000	1.6
BALTIC RUSH	JUNCUS BALTICUS	COOL	15	10,900,000	0.1
SWITCHGRASS	PANICUM VIRGATUM	WARM	15	389,000	1.0
WESTERN WHEATGRASS	PASCOPYRUM SMITHII	COOL	15	110,000	3.6
SAND DROPSEED	SPOROBOLUS AIROIDES	WARM	15	1,758,000	0.2
TOTAL			100	12.4 LBS PLS[2]/AC	

[1] TO BE INSTALLED AT APPROXIMATELY 6" TO 24" ABOVE WATER LINE.
[2] PLS = PURE LIVE SEED PER POUND BASED 60 SEEDS PER SQUARE FOOT. IF BROADCAST SEEDING, DOUBLE THE RATE APPLIED.
[3] IF DESIRED, SHRUBS FROM THE WILLOW SHRUBLAND PLANT COMPOSITION SCHEDULE CAN BE INSTALLED IN THIS ZONE.

PERMANENT DRILL SEEDING[18] — TRANSITION SEED MIX — WITH FORBS

SPECIES	SCIENTIFIC NAME	SEASON	% IN MIX	SEEDS/LB.	LBS PLS[2]/AC
NATIVE GRASSES					
CANADA WILDRYE	ELYMUS CANADENSIS	COOL	15	115,000	3.4
STREAMBANK WHEATGRASS	ELYMUS LANCEOLATUS SPP. PSAMMOPHILUS	COOL	15	156,000	2.5
SLENDER WHEAT GRASS	ELYMUS TRACHYCAULUS	WARM	10	159,000	1.6
BALTIC RUSH	JUNCUS BALTICUS	COOL	15	10,900,000	0.1
SWITCHGRASS	PANICUM VIRGATUM	WARM	15	389,000	1.0
WESTERN WHEATGRASS	PASCOPYRUM SMITHII	COOL	15	110,000	3.6
SAND DROPSEED	SPOROBOLUS AIROIDES	WARM	15	1,758,000	0.2

SM SEEDING AND MULCHING 19

PERMANENT DRILL SEEDING[18] — TRANSITION SEED MIX — WITH FORBS

SPECIES	SCIENTIFIC NAME	SEASON	% IN MIX	SEEDS/LB.	LBS PLS[2]/AC
NATIVE WILDFLOWERS					
INDIAN BLANKET FLOWER	GAILLARDIA ARISTATA	SUMMER-FALL	1	132,000	0.2
ROCKY MOUNTAIN IRIS	IRIS MISSOURIENSIS	SPRING-SUMMER	2	368,000	0.1
EVENING PRIMROSE	OENETHERA ELATA	SUMMER	2	1,300,000	0.1
GOLDEN BANNER	THERMOPSIS MONTANA	SPRING	2	15,000	3.5
MEXICAN HAT	RATIBIDA COLUMNIFERA	SUMMER-FALL	1	1,230,000	0.1
SAND DROPSEED	SPOROBOLUS AIROIDES	WARM	15	1,758,000	0.2
TOTAL			100	14.4 LBS PLS[2]/AC	

[1] TO BE INSTALLED AT APPROXIMATELY 6" TO 24" ABOVE WATER LINE.
[2] PLS = PURE LIVE SEED PER POUND BASED 60 SEEDS PER SQUARE FOOT. IF BROADCAST SEEDING, DOUBLE THE RATE APPLIED.
[3] IF DESIRED, SHRUBS FROM THE WILLOW SHRUBLAND PLANT COMPOSITION SCHEDULE CAN BE INSTALLED IN THIS ZONE.

PERMANENT DRILL SEEDING — UPLAND SEED[3] MIX — WITHOUT FORBS

SPECIES	SCIENTIFIC NAME	SEASON	% IN MIX	SEEDS/LB.	LBS PLS[2]/AC
BIG BLUESTEM	ANDROPOGON GERARDII	WARM	10	130,000	2.0
SIDEOATS GRAMA	BOUTELOUA CURTIPENDULA	WARM	10	191,000	1.4
BLUE GRAMA	BOUTELOUA GRACILIS	WARM	10	825,000	0.3
CANADA WILDRYE	ELYMUS CANADENSIS	COOL	10	115,000	2.3
THICKSPIKE WHEATGRASS	ELYMUS LANCEOLATUS SPP. LANCEOLATUS	COOL	5	154,000	0.8
STREAMBANK WHEATGRASS	ELYMUS LANCEOLATUS SPP. PSAMMOPHILUS	COOL	5	156,000	0.8
SLENDER WHEAT GRASS	ELYMUS TRACHYCAULUS	WARM	10	159,000	1.6
NEEDLE AND THREAD	HESPEROSTIPA COMATA	COOL	10	115,000	2.3
WESTERN WHEATGRASS	PASCOPYRUM SMITHII	COOL	10	110,000	2.4
INDIAN GRASS	SORGHASTRUM NUTANS	WARM	10	170,000	1.5
SAND DROPSEED	SPOROBOLUS CRYPTANDRUS	WARM	10	5,298,000	0.1
TOTAL			100	15.5 LBS PLS[2]/AC	

[1] TO BE INSTALLED AT APPROXIMATELY 24" ABOVE WATER LINE.
[2] PLS = PURE LIVE SEED PER POUND BASED 60 SEEDS PER SQUARE FOOT. IF BROADCAST SEEDING, DOUBLE THE RATE APPLIED.
[3] IF DESIRED, TREES AND SHRUBS FROM THE COTTONWOOD SHRUB WOODLAND COMPOSITION SCHEDULE CAN BE INSTALLED IN THIS ZONE.

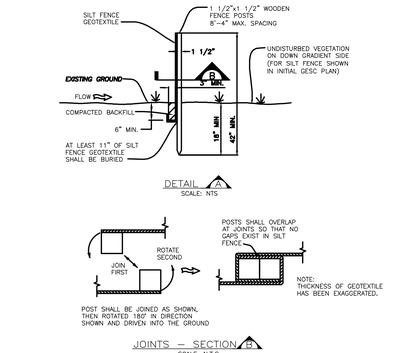
UPLAND SEED MIX — WITH FORBS[18]

SPECIES	SCIENTIFIC NAME	SEASON	% IN MIX	SEEDS/LB.	LBS PLS[2]/AC
NATIVE GRASSES					
BIG BLUESTEM	ANDROPOGON GERARDII	WARM	8	130,000	1.6
SIDEOATS GRAMA	BOUTELOUA CURTIPENDULA	WARM	8	191,000	1.1
BLUE GRAMA	BOUTELOUA GRACILIS	WARM	8	825,000	0.3
CANADA WILDRYE	ELYMUS CANADENSIS	COOL	8	115,000	1.8
THICKSPIKE WHEATGRASS	ELYMUS LANCEOLATUS SPP. LANCEOLATUS	COOL	5	154,000	0.8
STREAMBANK WHEATGRASS	ELYMUS LANCEOLATUS SPP. PSAMMOPHILUS	COOL	5	156,000	0.8
SLENDER WHEAT GRASS	ELYMUS TRACHYCAULUS	WARM	10	159,000	1.6
NEEDLE AND THREAD	HESPEROSTIPA COMATA	COOL	8	115,000	1.8
WESTERN WHEATGRASS	PASCOPYRUM SMITHII	COOL	10	110,000	2.4
INDIAN GRASS	SORGHASTRUM NUTANS	WARM	10	170,000	1.5
SAND DROPSEED	SPOROBOLUS CRYPTANDRUS	WARM	10	5,298,000	0.1
NATIVE WILDFLOWERS					
BLACK-EYED SUSAN	RUDBECKIA HIRTA	SUMMER-FALL	1	1,710,000	0.1
SULFUR FLOWER	ERIOGONUM UMBELLATUM	FALL	2	209,000	0.3
PRAIRIE ASTER	MACHAERANTHERA TANACETIFOLIA	SUMMER	1	408,000	0.1
PURPLE PRAIRIE CLOVER	DALEA PURPUREUM	SUMMER	1	210,000	0.1
WESTERN YARROW	ACHILLEA MILLEFOLIUM VAR. OCCIDENTALIS	SUMMER-FALL	2	2,770,000	0.1
PLAINS COREOPSIS	COREOPSIS TINCTORIA	SUMMER-FALL	1	1,400,000	0.1
INDIAN BLANKET FLOWER	GAILLARDIA ARISTATA	SUMMER-FALL	1	132,000	0.2
PURPLE CONEFLOWER	ECHINACEA PURPUREA	SUMMER	1	117,000	0.2
TOTAL			100	15 LBS PLS[2]/AC	

[1] TO BE INSTALLED AT APPROXIMATELY 24" ABOVE WATER LINE.
[2] PLS = PURE LIVE SEED PER POUND BASED 60 SEEDS PER SQUARE FOOT. IF BROADCAST SEEDING, DOUBLE THE RATE APPLIED.
[3] IF DESIRED, TREES AND SHRUBS FROM THE COTTONWOOD SHRUB WOODLAND COMPOSITION SCHEDULE CAN BE INSTALLED IN THIS ZONE.

COMMON OR TRADE NAME	SCIENTIFIC NAME	LBS PLS/AC
OPTION 1: OATS	AVENA SATIVA	60 TO 90
OPTION 2: QUICKGARD	TRITICUM AESTIVUM X SECALE CEREALE	10 TO 40
OPTION 3: REGREEN	TRITICUM AESTIVUM X ELYTRIGIA ELONGATA	10 TO 40

SM SEEDING AND MULCHING 19



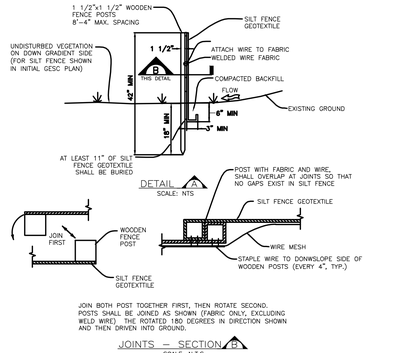
SILT FENCE INSTALLATION NOTES

1. SEE PLAN VIEW FOR:
   - LOCATION AND LENGTH OF FENCE.
2. ANCHOR TRENCH SHALL BE EXCAVATED WITH TRENCHER, OR WITH SILT FENCE INSTALLATION MACHINE; NO ROAD GRADERS, BACKHOES, ETC. SHALL BE USED. TRENCH SHALL BE COMPACTED BY HAND, WITH "JUMPING JACK", OR BY WHEEL ROLLING. COMPACTION SHALL BE SUCH THAT SILT FENCE RESISTS BEING PULLED OUT OF ANCHOR TRENCH BY HAND.
3. SILT FENCE GEOTEXTILE SHALL MEET THE FOLLOWING REQUIREMENTS:
   - 6-TO 12-GALLONS PER MINUTE PER SQUARE FOOT FLOW CAPACITY.
   - 90 LB. TENSILE STRENGTH PER ASTM D4622.
   - UV DESIGN AT 500 HRS MIN. 70% STRENGTH RETAINED PER ASTM D 4355.
4. SILT FENCE INDICATED ON INITIAL GESC PLAN SHALL BE INSTALLED PRIOR TO ANY LAND-DISTURBING ACTIVITIES.

SILT FENCE MAINTENANCE NOTES

1. THE GESC MANAGER SHALL INSPECT AS NECESSARY TO ENSURE THE ADEQUACY AND FUNCTIONALITY OF THE CONTROL MEASURE.
2. SEDIMENT ACCUMULATED UPSTREAM OF SILT FENCE SHALL BE REMOVED WHEN THE UPSTREAM SEDIMENT REACHES 25%.
3. SILT FENCE SHALL BE REMOVED WHEN THE UPSTREAM DISTURBED AREA IS STABILIZED AND GRASS COVER IS APPROVED BY SEMSWA. IF ANY DISTURBED AREA EXISTS AFTER REMOVAL, IT SHALL BE SEEDED AND MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY SEMSWA.

SF SILT FENCE 20



SILT FENCE INSTALLATION NOTES

1. SEE PLAN VIEW FOR:
   - LOCATION AND LENGTH OF FENCE.
2. ANCHOR TRENCH SHALL BE EXCAVATED WITH TRENCHER, OR WITH SILT FENCE INSTALLATION MACHINE; NO ROAD GRADERS, BACKHOES, ETC. SHALL BE USED. TRENCH SHALL BE COMPACTED BY HAND, WITH "JUMPING JACK", OR BY WHEEL ROLLING. COMPACTION SHALL BE SUCH THAT SILT FENCE RESISTS BEING PULLED OUT OF ANCHOR TRENCH BY HAND.
3. SILT FENCE GEOTEXTILE SHALL MEET THE FOLLOWING REQUIREMENTS:
   - 6-TO 12-GALLONS PER MINUTE PER SQUARE FOOT FLOW CAPACITY.
   - 90 LB. TENSILE STRENGTH PER ASTM D4622.
   - UV DESIGN AT 500 HRS MIN. 70% STRENGTH RETAINED PER ASTM D 4355.
4. SILT FENCE INDICATED ON INITIAL GESC PLAN SHALL BE INSTALLED PRIOR TO ANY LAND-DISTURBING ACTIVITIES.

SILT FENCE MAINTENANCE NOTES

1. THE GESC MANAGER SHALL INSPECT AS NECESSARY TO ENSURE THE ADEQUACY AND FUNCTIONALITY OF THE CONTROL MEASURE.
2. SEDIMENT ACCUMULATED UPSTREAM OF SILT FENCE SHALL BE REMOVED WHEN THE UPSTREAM SEDIMENT REACHES 25%.
3. SILT FENCE SHALL BE REMOVED WHEN THE UPSTREAM DISTURBED AREA IS STABILIZED AND GRASS COVER IS APPROVED BY SEMSWA. IF ANY DISTURBED AREA EXISTS AFTER REMOVAL, IT SHALL BE SEEDED AND MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY SEMSWA.

SFR SILT FENCE REINFORCED 21

UTILITY NOTIFICATION CENTER OF COLORADO
CALL BEFORE YOU DIG
811
Call 2 days prior to any digging, grading or excavating for the marking of underground member utilities

SOUTHEAST METRO STORMWATER AUTHORITY
7437 SOUTH FAIRPLAY STREET
CENTENNIAL COLORADO
80112-4486
(303) 858-8844 - INSPECTION DIVISION

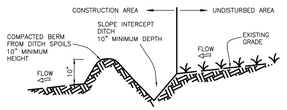
Southeast Metro Stormwater Authority

ARAPAHOE COUNTY
COLORADO'S FIRST

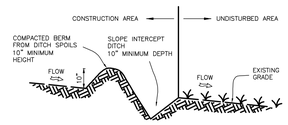
GRADING EROSION AND SEDIMENT CONTROL STANDARD NOTES AND DETAILS REVISED FEBRUARY 2023

GESC SHEET 3 OF 4

DWG. NUMBER 1001-02-002-041 SHEET 92 OF 95



(TO PREVENT RUN-ON OF OFF-SITE FLOWS)
SCALE: NTS



(AS PERIMETER CONTROL)
SCALE: NTS

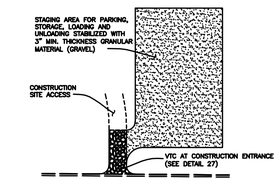
SLOPE INTERCEPT DITCH INSTALLATION NOTES

1. MATERIALS CUT OUT OF DITCH TO FORM A COMPACTED BERM ADJACENT TO AND ON THE CONSTRUCTION AREA SIDE OF DITCH.
2. SLOPE INTERCEPT DITCH SHALL HAVE A MINIMUM DEPTH OF 10".
3. COMPACTED BERM SHALL HAVE A MINIMUM HEIGHT OF 10".
4. SLOPE INTERCEPT DITCH SHALL BE CUT IN ON THE CONTOUR.
5. SLOPE INTERCEPT DITCH CAN BE USED IN PLACE OF SILT FENCE (SF) AND SEDIMENT CONTROL LOGS (SCL).
6. SEE PLAN VIEW FOR LOCATION.

SLOPE INTERCEPT DITCH MAINTENANCE NOTES

1. THE GESC MANAGER SHALL INSPECT AS NECESSARY TO ENSURE THE ADEQUACY AND FUNCTIONALITY OF THE CONTROL MEASURE.
2. SEDIMENT ACCUMULATED IN DITCH SHALL BE REMOVED WHEN DITCH BECOMES 1/2 FULL. REMOVED SEDIMENT SHALL BE PLACED ON AND COMPACTED WITH THE ADJACENT BERM.
3. BERM MATERIAL TO FILL DITCH UPON COMPLETION OF CONSTRUCTION. ALL DISTURBED AREAS TO BE SEEDED AND MULCHED PER DETAIL 19.

SID SLOPE INTERCEPT DITCH 22



PLAN
SCALE: N.T.S.

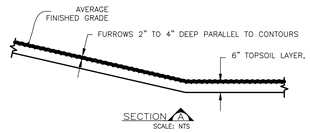
STABILIZED STAGING AREA INSTALLATION NOTES

1. SEE PLAN VIEW FOR GENERAL LOCATION OF STAGING AREA. CONTRACTOR MAY MODIFY LOCATION AND SIZE OF STABILIZED STAGING AREA WITH SEMSWA APPROVAL.
2. STABILIZED STAGING AREA SHALL BE LARGE ENOUGH TO FULLY CONTAIN PARKING, STORAGE, AND UNLOADING AND LOADING OPERATIONS.
3. IF REQUIRED BY SEMSWA, SITE ACCESS ROADS SHALL BE STABILIZED IN THE SAME MANNER AS THE STAGING AREA.
4. STAGING AREA SHALL BE STABILIZED PRIOR TO ANY OTHER OPERATIONS ON THE SITE.
5. THE STABILIZED STAGING AREA SHALL CONSIST OF A MINIMUM OF 3" OF GRANULAR MATERIAL (GRAVEL).

STABILIZED STAGING AREA MAINTENANCE NOTES

1. THE GESC MANAGER SHALL INSPECT AS NECESSARY TO ENSURE THE ADEQUACY AND FUNCTIONALITY OF THE CONTROL MEASURE.
2. GESC MANAGER SHALL PROVIDE ADDITIONAL THICKNESS OF GRANULAR MATERIAL IF ANY RUTTING OCCURS OR UNDERLYING SUBGRADE BECOMES EXPOSED.
3. STABILIZED STAGING AREA SHALL BE ENLARGED IF NECESSARY TO CONTAIN PARKING, STORAGE, AND UNLOADING AND LOADING OPERATIONS.
4. ANY ACCUMULATED DIRT OR MUD SHALL BE REMOVED FROM THE SURFACE OF THE STABILIZED STAGING AREA.
5. THE STABILIZED STAGING AREA SHALL BE REMOVED AT THE END OF CONSTRUCTION. THE GRANULAR MATERIAL SHALL BE REMOVED OR, IF APPROVED BY SEMSWA, USED ON SITE, AND THE AREA TOPSOILED, DRILL SEEDED AND CRIMP MULCHED OR OTHERWISE STABILIZED.

SSA STABILIZED STAGING AREA 23



SECTION A
SCALE: NTS

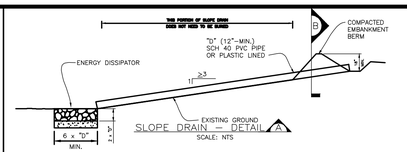
SURFACE ROUGHENING INSTALLATION NOTES

1. SURFACE ROUGHENING SHALL BE PROVIDED ON ALL FINISHED GRADES (SLOPES AND "FLAT" AREAS) WITHIN 2 DAYS OF COMPLETION OF FINISHED GRADE (FOR AREAS NOT RECEIVING TOPSOIL) OR WITHIN 2 DAYS OF TOPSOIL PLACEMENT.
2. AREAS WHERE BUILDING FOUNDATIONS, PAVEMENT, OR SOD IS TO BE PLACED WITHIN 7-DAYS OF FINISHED GRADING DO NOT NEED TO BE SURFACE ROUGHENED.
3. DISTURBED SURFACES SHALL BE ROUGHENED USING RIPPING OR TILLING EQUIPMENT ON THE CONTOUR OR TRACKING UP AND DOWN A SLOPE USING EQUIPMENT TREADS.

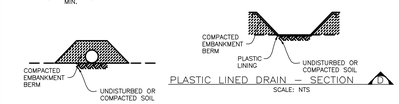
SURFACE ROUGHENING MAINTENANCE NOTES

1. THE GESC MANAGER SHALL INSPECT AS NECESSARY TO ENSURE THE ADEQUACY AND FUNCTIONALITY OF THE CONTROL MEASURE.
2. VEHICLES AND EQUIPMENT SHALL GENERALLY BE CONFINED TO ACCESS DRIVES AND SHALL NOT BE DRIVEN OVER AREAS THAT HAVE BEEN SURFACE ROUGHENED.
3. IN NON-TURF GRASS FINISHED AREAS, SEEDING AND MULCHING SHALL TAKE PLACE DIRECTLY OVER SURFACE ROUGHENED AREAS WITHOUT FIRST SMOOTHING OUT THE SURFACE.
4. IN AREAS NOT SEEDED AND MULCHED AFTER SURFACE ROUGHENING, SURFACES SHALL BE RE-ROUGHENED AS NECESSARY TO MAINTAIN GROOVE DEPTH AND SMOOTH OVER ANY RILL EROSION.

SR SURFACE ROUGHING 24

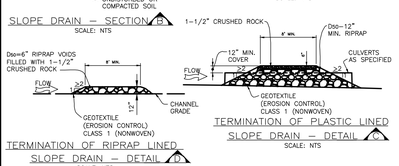


SLOPE DRAIN — DETAIL A
SCALE: NTS



SLOPE DRAIN — SECTION B
SCALE: NTS

PLASTIC LINED DRAIN — SECTION B
SCALE: NTS



TERMINATION OF RIPRAP LINED SLOPE DRAIN — DETAIL A
SCALE: NTS

TERMINATION OF PLASTIC LINED SLOPE DRAIN — DETAIL A
SCALE: NTS

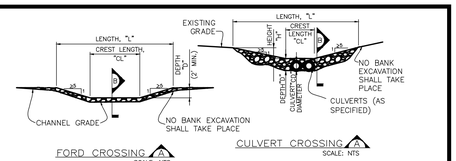
SLOPE DRAIN INSTALLATION NOTES

1. SEE PLAN VIEW FOR:
   - LOCATION AND LENGTH OF SLOPE DRAIN.
   - PIPE DIAMETER, "D", AND RIPRAP SIZE, "Dso".
2. SLOPE DRAIN DIMENSIONS SHALL BE CONSIDERED MINIMUM DIMENSIONS; CONTRACTOR MAY ELECT TO INSTALL LARGER FACILITIES. ANY DAMAGE TO SLOPE OR SLOPE DRAIN DURING RUNOFF EVENTS SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
3. SLOPE DRAINS INDICATED ON INITIAL GESC PLAN SHALL BE INSTALLED PRIOR TO ANY UPSTREAM LAND-DISTURBING ACTIVITIES.
4. FOR TEMPORARY SLOPE DRAINS, PIPE MAY BE INSTALLED ON TOP OF SLOPE; HOWEVER, 12" MIN. COVER AT TOP OF SLOPE SHALL BE PROVIDED.
5. AN ENERGY DISSIPATOR SHALL BE PLACED AT THE OUTFALL OF THE SLOPE DRAIN.

SLOPE DRAIN MAINTENANCE NOTES

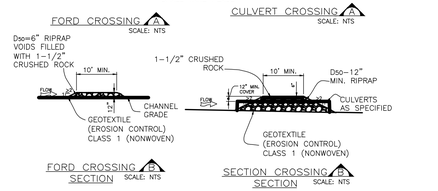
1. THE GESC MANAGER SHALL INSPECT AS NECESSARY TO ENSURE THE ADEQUACY AND FUNCTIONALITY OF THE CONTROL MEASURE.
2. TEMPORARY SLOPE DRAINS ARE TO REMAIN IN PLACE UNTIL NO LONGER NEEDED, BUT SHALL BE REMOVED PRIOR TO THE END OF CONSTRUCTION. WHEN SLOPE DRAINS ARE REMOVED, THE DISTURBED AREA SHALL BE DRILL SEEDED AND CRIMP MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY SEMSWA.

TSD TEMPORARY SLOPE DRAIN 25



FORD CROSSING A
SCALE: NTS

CULVERT CROSSING A
SCALE: NTS



FORD CROSSING B SECTION
SCALE: NTS

SECTION CROSSING B SECTION
SCALE: NTS

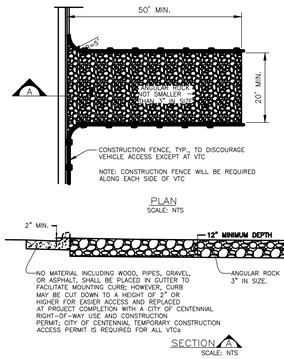
TEMPORARY STREAM CROSSING INSTALLATION NOTES

1. SEE PLAN VIEW FOR:
   - LOCATIONS OF TEMPORARY STREAM CROSSING.
   - LENGTH, "L", CREST LENGTH, "CL", CROSSING HEIGHT, "H", DEPTH, "D", CULVERT DIAMETER, "CD", AND NUMBER, TYPE AND CLASS OR GAUGE OF CULVERTS.
2. TEMPORARY STREAM CROSSING DIMENSIONS, DSO, AND NUMBER OF CULVERTS INDICATED (FOR CULVERT CROSSING) SHALL BE CONSIDERED MINIMUM DIMENSIONS; ENGINEER MAY ELECT TO INSTALL LARGER FACILITIES. ANY DAMAGE TO STREAM CROSSING OR EXISTING STREAM CHANNEL DURING BASEFLOW OR FLOOD EVENTS SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
3. SEE SHEET 1 FOR RIPRAP AND 1-1/2" CRUSHED ROCK GRADATIONS.
4. FOR A TEMPORARY STREAM CROSSING THAT WILL CARRY LOADS, THE TEMPORARY STREAM CROSSING MUST BE DESIGNED BY THE DESIGN ENGINEER, AND ONLY USED IF APPROVED BY SEMSWA.

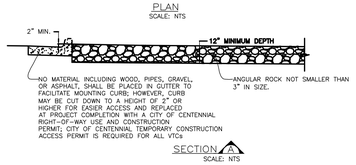
TEMPORARY STREAM CROSSING MAINTENANCE NOTES

1. THE GESC MANAGER SHALL INSPECT AS NECESSARY TO ENSURE THE ADEQUACY AND FUNCTIONALITY OF THE CONTROL MEASURE.
2. SEDIMENT ACCUMULATED UPSTREAM OF STREAM CROSSINGS SHALL BE REMOVED WHEN THE SEDIMENT DEPTH UPSTREAM OF CROSSING IS WITHIN 50% OF THE CREST (FORD CROSSING) OR GREATER THAN AN AVERAGE DEPTH OF 50% (CULVERT CROSSING).
3. STREAM CROSSINGS ARE TO REMAIN IN PLACE UNTIL NO LONGER NEEDED, BUT SHALL BE REMOVED PRIOR TO THE END OF CONSTRUCTION.
4. WHEN STREAM CROSSINGS ARE REMOVED, THE DISTURBED AREA SHALL BE DRILL SEEDED AND CRIMP MULCHED AND COVERED WITH EROSION CONTROL BLANKET OR OTHERWISE STABILIZED IN A MANNER APPROVED BY SEMSWA.

TSC TEMPORARY STREAM CROSSING 26



PLAN
SCALE: NTS



SECTION A
SCALE: NTS

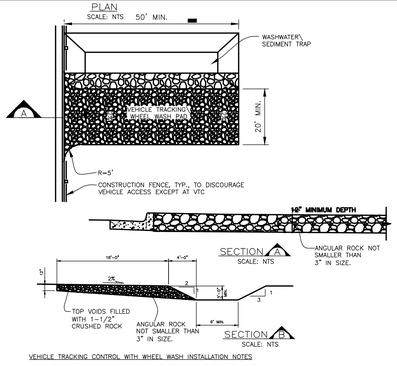
VEHICLE TRACKING CONTROL INSTALLATION NOTES

1. VEHICLE TRACKING CONTROL PADS SHALL BE INSTALLED AT EVERY EXIT POINT OF THE SITE.
2. VEHICLE TRACKING CONTROL PADS SHALL CONSIST OF HARD, DENSE, DURABLE STONE, ANGULAR IN SHAPE AND RESISTANT TO WEATHERING. ROUNDED STONE OR BOULDERS WILL NOT BE ACCEPTABLE. THE STONES SHALL NOT BE SMALLER THAN 3" IN SIZE. THE STONE SHALL HAVE A SPECIFIC GRAVITY OF AT LEAST 2.6. CONTROL OF GRADATION WILL BE BY VISUAL INSPECTIONS.
3. ANY CRACKED OR DAMAGED CURB AND GUTTER AND SIDEWALK SHALL BE REPLACED BY PERMITTEE.

VEHICLE TRACKING CONTROL MAINTENANCE NOTES

1. THE GESC MANAGER SHALL INSPECT AS NECESSARY TO ENSURE THE ADEQUACY AND FUNCTIONALITY OF THE CONTROL MEASURE.
2. VEHICLE TRACKING CONTROL SHALL BE REMOVED AT THE END OF CONSTRUCTION. THE ROCK MATERIAL REMOVED OR, IF APPROVED BY SEMSWA, USED ON SITE, AND THE AREA TOPSOILED, DRILL SEEDED AND CRIMP MULCHED OR OTHERWISE STABILIZED.

VTC VEHICLE TRACKING CONTROL 27



VEHICLE TRACKING CONTROL WITH WHEEL WASH INSTALLATION NOTES

1. SEMSWA RESERVES THE RIGHT TO REQUIRE VEHICLE TRACKING CONTROL WITH WHEEL WASH FACILITIES AT SITES WHERE TRACKING ONTO PAVED AREAS BECOMES A SIGNIFICANT PROBLEM.
2. IF VEHICLE TRACKING CONTROL WITH WHEEL WASH FACILITIES ARE REQUIRED, ALL WHEELS ON EVERY VEHICLE LEAVING THE SITE SHALL BE CLEANED OF MUD USING A PRESSURE-WASHER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A WATER SOURCE.
3. VEHICLE TRACKING CONTROL PADS SHALL CONSIST OF HARD, DENSE, DURABLE STONE, ANGULAR IN SHAPE AND RESISTANT TO WEATHERING. ROUNDED STONE OR BOULDERS WILL NOT BE ACCEPTABLE. THE STONES SHALL NOT BE SMALLER THAN 3" IN SIZE. THE STONE SHALL HAVE A SPECIFIC GRAVITY OF AT LEAST 2.6. CONTROL OF GRADATION WILL BE BY VISUAL INSPECTIONS.
4. ANY CRACKED OR DAMAGED CURB AND GUTTER AND SIDEWALK SHALL BE REPLACED BY CONTRACTOR.

VEHICLE TRACKING CONTROL WITH WHEEL WASH MAINTENANCE NOTES

1. THE GESC MANAGER SHALL INSPECT AS NECESSARY TO ENSURE THE ADEQUACY AND FUNCTIONALITY OF THE CONTROL MEASURE.
2. ACCUMULATED SEDIMENT IN THE WASHWATER/SEDIMENT TRAP SHALL BE REMOVED WHEN THE SEDIMENT DEPTH REACHES AN AVERAGE OF 12-INCHES.
3. VEHICLE TRACKING CONTROL WITH WHEEL WASH FACILITY SHALL BE REMOVED AT THE END OF CONSTRUCTION. THE RIPRAP MATERIAL REMOVED OR, IF APPROVED BY THE COUNTY, USED ON SITE, AND THE AREA TOPSOILED, DRILL SEEDED AND CRIMP MULCHED OR OTHERWISE STABILIZED.

WW VTC WITH WHEEL WASH 28

UTILITY NOTIFICATION CENTER OF COLORADO
CALL BEFORE YOU DIG
811
Call 2 days prior to any digging, grading or excavating for the marking of underground member utilities

SOUTHEAST METRO STORMWATER AUTHORITY
7437 SOUTH FAIRPLAY STREET
CENTENNIAL COLORADO
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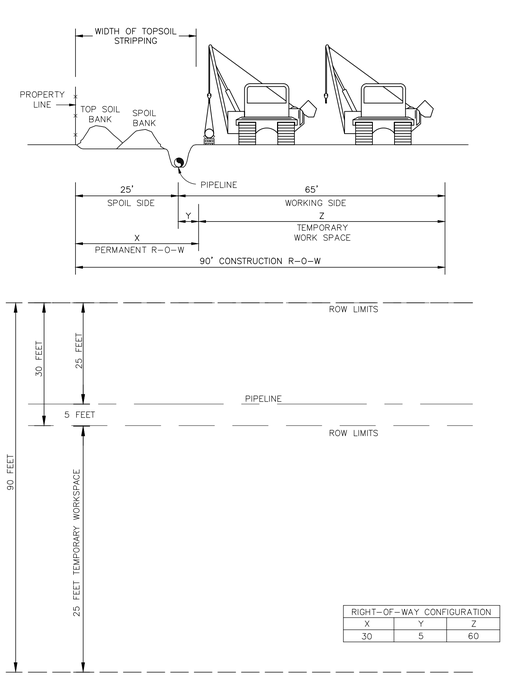
Southeast Metro Stormwater Authority

ARAPAHOE COUNTY
COLORADO'S FIRST

GRADING EROSION AND SEDIMENT CONTROL
STANDARD NOTES AND DETAILS
REVISED FEBRUARY 2023

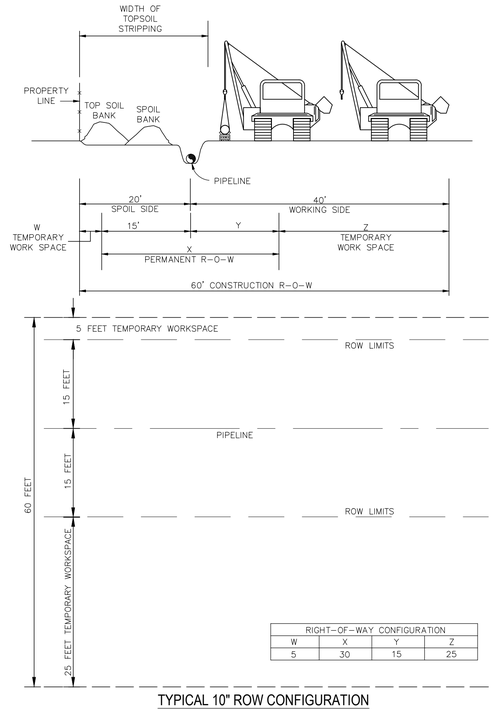
GESC SHEET 4 OF 4

DWG. NUMBER 1001-02-002-042 SHEET 93 OF 95



RIGHT-OF-WAY CONFIGURATION		
X	Y	Z
30	5	60

TYPICAL 16" ROW CONFIGURATION



RIGHT-OF-WAY CONFIGURATION			
W	X	Y	Z
5	30	15	25

TYPICAL 10" ROW CONFIGURATION

(LOC) LIMITS OF CONSTRUCTION

SCALE: NOT TO SCALE

NOTES:

1. CONFIGURATION DOES NOT INCLUDE ADDITIONAL TEMPORARY WORK SPACE AT CROSSINGS.
2. SEE ALIGNMENT SHEETS FOR ACTUAL ROW CONFIGURATION. X, Y, AND Z VALUES VARY ALONG ROW.
3. SEE ROW RESTRICTIONS LIST FOR ACTUAL PERMANENT AND TEMPORARY ROW WIDTHS.

CONTROL MEASURE NOTES

- (VTC) VEHICLE TRACKING CONTROL
- (SR) SURFACE ROUGHENING
- (TSC) TEMPORARY STREAM CROSSING
- (SF) SILT FENCE
- (CF) CONSTRUCITON FENCE
- (ECB) EROSION CONTROL BLANKET INSTALLATION (CURLEX EXCELSIOR)
- (SID) SLOPE INTERCEPT DITCH
- (CM) CONSTRUCTION MARKER
- (SM) SEED AND MULCH
- (LOC) LIMITS OF CONSTRUCTION (SEE PROPOSED EASEMENT BOUNDARY / TEMPORARY WORKSPACE BOUNDARY BELOW)

(1) ATWS WILL HAVE RESTRICTED USE (NO TOP SOIL STORAGE, HAZARDOUS MATERIAL STORAGE, OR REFUELING WILL OCCUR).

(2) ITEMS IN LIGHT GRAY WERE INCLUDED IN THE INITIAL/INTERIM PLAN SET BUT HAVE BEEN REMOVED IN THE FINAL PLAN SET

ENVIRONMENTAL NOTES / LEGEND

(1) ENVIRONMENTAL EXCLUSION AREAS WILL BE MARKED BY EXCLUSION FENCING AND SIGNAGE.

- PROPOSED CENTERLINE
- PROPOSED EASEMENT BOUNDARY
- TEMPORARY WORKSPACE BOUNDARY
- ADDITIONAL TEMPORARY WORKSPACE
- NEW PERMANENT SITE
- NEW PERMANENT ACCESS
- ACCESS ROAD
- CONSTRUCTION MARKER
- SLOPE INTERCEPT DITCH
- SILT FENCE
- CONSTRUCTION FENCE
- EROSION CONTROL BLANKET
- VEHICLE TRACKING CONTROL
- BORE OR HDD ENTRY/EXIT
- FOREIGN PIPELINE
- OTHER UTILITY
- EXISTING EASEMENT
- DRAINAGE FLOW
- WETLAND
- STREAM
- LOCAL FLOODPLAIN DELINEATION
- FEMA FLOODPLAIN
- FEMA FLOODPLAIN ANALYSIS DELINEATION
- FEMA REGULATORY FLOODWAY
- PROPERTY BOUNDARY
- SECTION BOUNDARY
- TOWNSHIP BOUNDARY
- COUNTY BOUNDARY

BILL OF MATERIALS

REFERENCE DRAWINGS

REF.	DWG. NUMBER	DWG. TITLE

CP FEATURE DATA

REVISIONS

REV.	DATE	BY	DESCRIPTION
0	12/06/24	ALS	ISSUED FOR PERMIT FILING
1	08/29/25	KB	UPDATED AGENCY COMMENTS
2	10/24/25	DH	UPDATED AGENCY COMMENTS

DENVER EXPANSION PROJECT - SCOTT CITY TO DENVER PIPELINE

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MAGELLAN MIDSTREAM PARTNERS, L.P.

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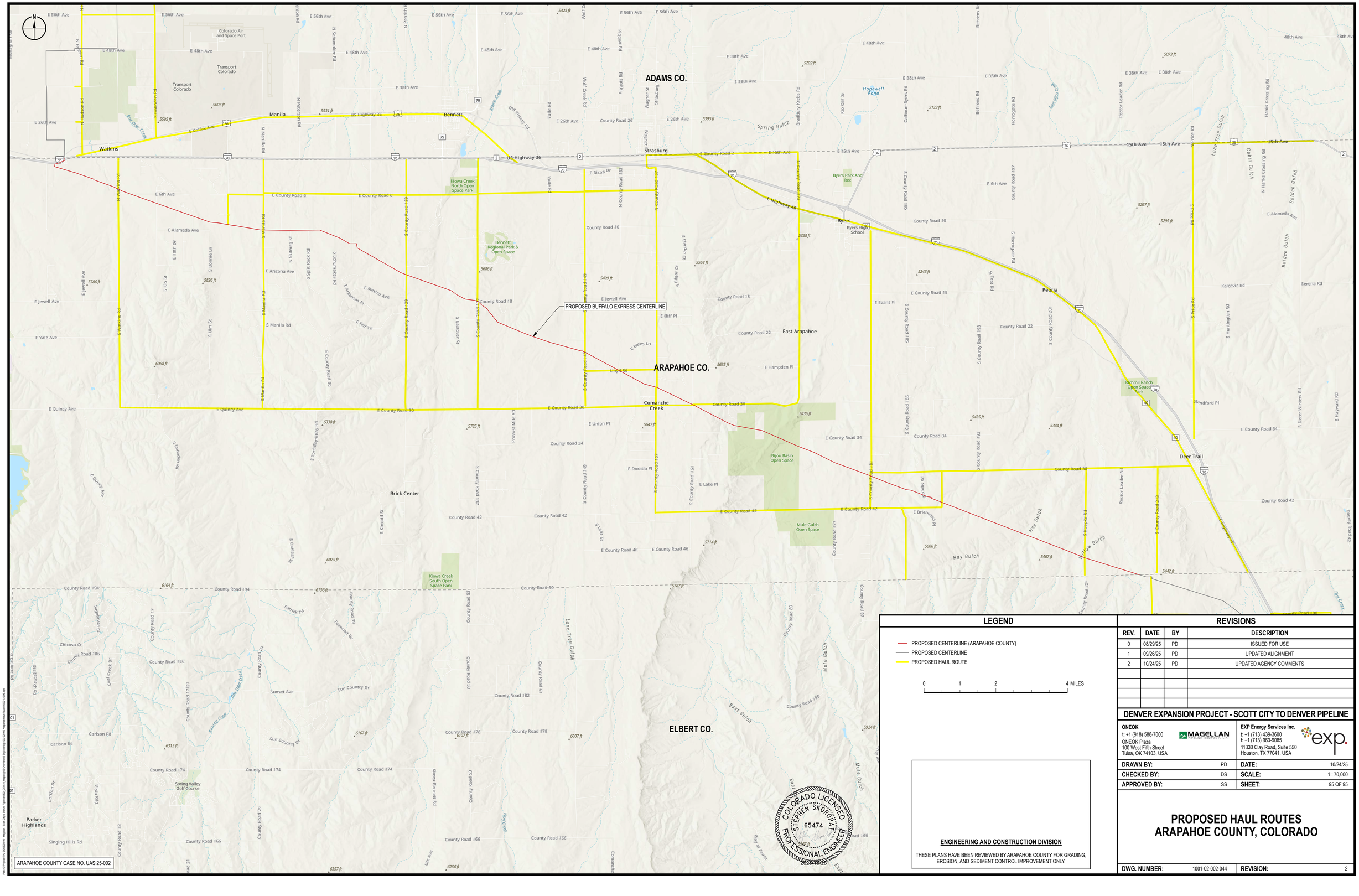
Houston, TX 77041, USA

DRAWN BY:	ALS	DATE:	10/24/25
CHECKED BY:	DS	SCALE:	NOT TO SCALE
APPROVED BY:	SS	SHEET:	94 OF 95

COLORADO LICENSED
STEPHEN SKORUPA
65474
PROFESSIONAL ENGINEER

GRADING, EROSION AND SEDIMENT CONTROL PLAN
ARAPAHOE COUNTY, COLORADO
EROSION CONTROL NOTES & DETAILS

DWG. NUMBER:	1001-01-002-043	REVISION:	2



LEGEND

- PROPOSED CENTERLINE (ARAPAHOE COUNTY)
- PROPOSED CENTERLINE
- PROPOSED HAUL ROUTE

0 1 2 4 MILES

ENGINEERING AND CONSTRUCTION DIVISION

THESE PLANS HAVE BEEN REVIEWED BY ARAPAHOE COUNTY FOR GRADING, EROSION, AND SEDIMENT CONTROL IMPROVEMENT ONLY.

COLORADO LICENSED
STEPHEN SKOROPAT
65474
PROFESSIONAL ENGINEER

REVISIONS

REV.	DATE	BY	DESCRIPTION
0	08/29/25	PD	ISSUED FOR USE
1	09/26/25	PD	UPDATED ALIGNMENT
2	10/24/25	PD	UPDATED AGENCY COMMENTS

DENVER EXPANSION PROJECT - SCOTT CITY TO DENVER PIPELINE

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DRAWN BY:	PD	**DATE:**	10/24/25
CHECKED BY:	DS	**SCALE:**	1 : 70,000
APPROVED BY:	SS	**SHEET:**	95 OF 95

PROPOSED HAUL ROUTES
ARAPAHOE COUNTY, COLORADO

DWG. NUMBER:	1001-02-002-044	**REVISION:**	2

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