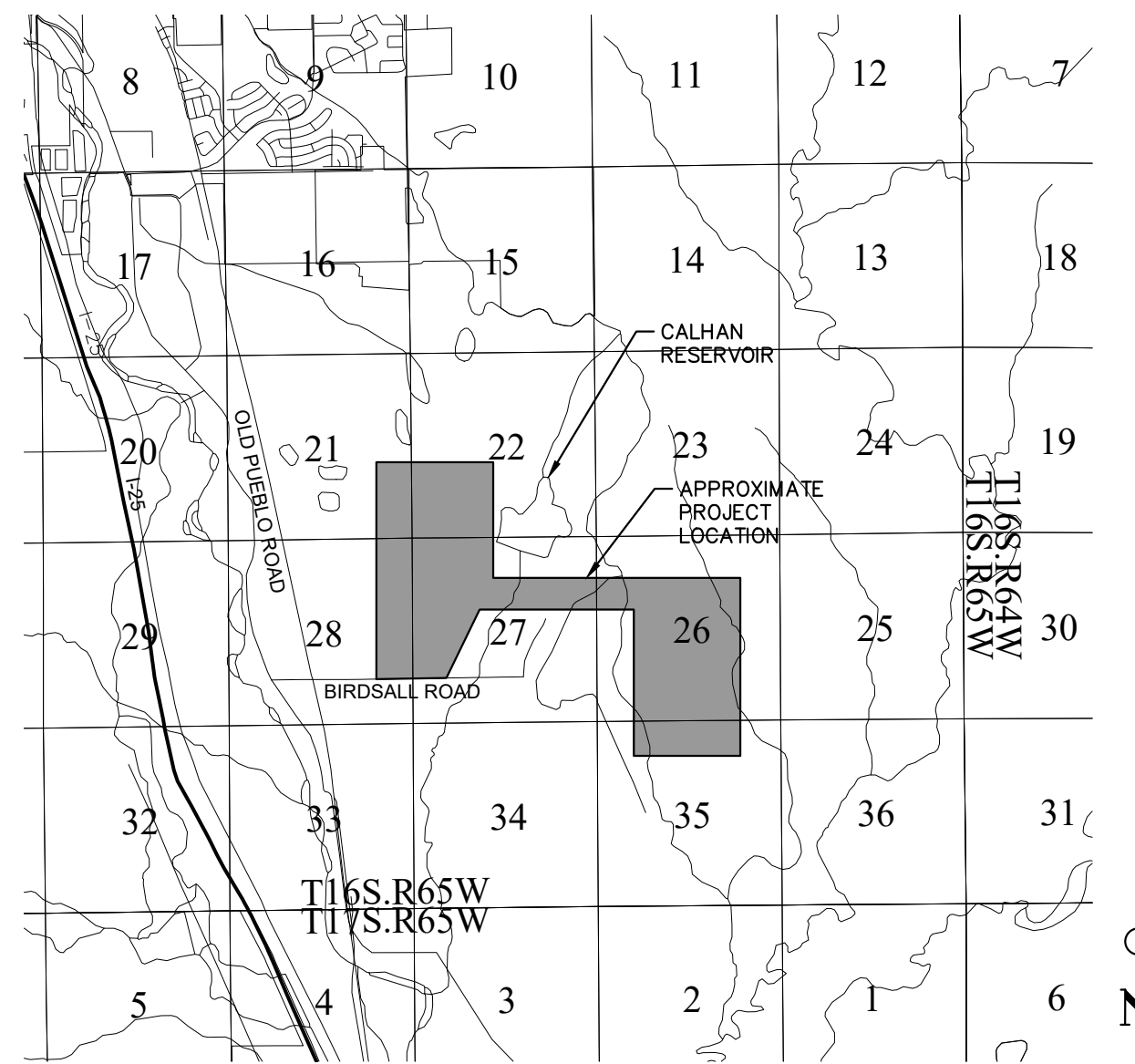


STANDARD NOTES FOR EL PASO COUNTY GRADING AND EROSION CONTROL PLANS:

- CONSTRUCTION MAY NOT COMMENCE UNTIL A CONSTRUCTION PERMIT IS OBTAINED FROM PLANNING AND COMMUNITY DEVELOPMENT (PCD) AND A PRE-CONSTRUCTION CONFERENCE IS HELD WITH PCD INSPECTORS.
- STORMWATER DISCHARGES FROM CONSTRUCTION SITES SHALL NOT CAUSE OR THREATEN TO CAUSE POLLUTION, CONTAMINATION, OR DEGRADATION OF STATE WATERS. ALL WORK AND EARTH DISTURBANCE SHALL BE DONE IN A MANNER THAT MINIMIZES POLLUTION OF ANY ON-SITE OR OFF-SITE WATERS, INCLUDING WETLANDS.
- NOTWITHSTANDING ANYTHING DEPICTED IN THESE PLANS IN WORDS OR GRAPHIC REPRESENTATION, ALL DESIGN AND CONSTRUCTION RELATED TO ROADS, STORM DRAINAGE AND EROSION CONTROL SHALL CONFORM TO THE STANDARDS AND REQUIREMENTS OF THE MOST RECENT VERSION OF THE RELEVANT ADOPTED EL PASO COUNTY STANDARDS, INCLUDING THE LAND DEVELOPMENT CODE, THE ENGINEERING CRITERIA MANUAL, THE DRAINAGE CRITERIA MANUAL, AND THE DRAINAGE CRITERIA MANUAL VOLUME 2. ANY DEVIATIONS TO REGULATIONS AND STANDARDS MUST BE REQUESTED, AND APPROVED, IN WRITING.
- A SEPARATE STORMWATER MANAGEMENT PLAN (SWMP) FOR THIS PROJECT SHALL BE COMPLETED AND AN EROSION AND STORMWATER QUALITY CONTROL PERMIT (ESQCP) ISSUED PRIOR TO COMMENCING CONSTRUCTION. DURING CONSTRUCTION THE SWMP IS THE RESPONSIBILITY OF THE DESIGNATED STORMWATER MANAGER, SHALL BE LOCATED ON SITE AT ALL TIMES AND SHALL BE KEPT UP TO DATE WITH WORK PROGRESS AND CHANGES IN THE FIELD.
- ONCE THE ESQCP HAS BEEN ISSUED, THE CONTRACTOR MAY INSTALL THE INITIAL STAGE EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs) AS INDICATED ON THE GEC. A PRECONSTRUCTION MEETING BETWEEN THE CONTRACTOR, ENGINEER, AND EL PASO COUNTY WILL BE HELD PRIOR TO ANY CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE APPLICANT TO COORDINATE THE MEETING TIME AND PLACE WITH COUNTY DSD INSPECTIONS STAFF.
- SOIL EROSION CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES, OR ANY DISTURBED LAND AREA SHALL BE COMPLETED WITHIN 21 CALENDAR DAYS AFTER FINAL GRADING, OR FINAL EARTH DISTURBANCE, HAS BEEN COMPLETED. DISTURBED AREAS AND STOCKPILES WHICH ARE NOT AT FINAL GRADE BUT WILL REMAIN DORMANT FOR LONGER THAN 30 DAYS SHALL ALSO BE MULCHED WITHIN 21 DAYS AFTER INTERIM GRADING. AN AREA THAT IS GOING TO REMAIN IN AN INTERIM STATE FOR MORE THAN 60 DAYS SHALL ALSO BE SEEDED. ALL TEMPORARY SOIL EROSION CONTROL MEASURES AND BMPs SHALL BE MAINTAINED UNTIL PERMANENT SOIL EROSION CONTROL MEASURES ARE IMPLEMENTED AND ESTABLISHED.
- TEMPORARY SOIL EROSION CONTROL FACILITIES SHALL BE REMOVED AND EARTH DISTURBANCE AREAS GRADED AND STABILIZED WITH PERMANENT SOIL EROSION CONTROL MEASURES PURSUANT TO STANDARDS AND SPECIFICATION PRESCRIBED IN THE DCM VOLUME II AND THE ENGINEERING CRITERIA MANUAL (ECM) APPENDIX I.
- ALL PERSONS ENGAGED IN EARTH DISTURBANCE SHALL IMPLEMENT AND MAINTAIN ACCEPTABLE SOIL EROSION AND SEDIMENT CONTROL MEASURES INCLUDING WITH THE EROSION CONTROL TECHNICAL STANDARDS OF THE DRAINAGE CRITERIA MANUAL (DCM) VOLUME II AND IN ACCORDANCE WITH THE STORMWATER MANAGEMENT PLAN (SWMP).
- ALL TEMPORARY EROSION CONTROL FACILITIES INCLUDING BMPs AND ALL PERMANENT FACILITIES INTENDED TO CONTROL EROSION OF ANY EARTH DISTURBANCE OPERATIONS, SHALL BE INSTALLED AS DEFINED IN THE APPROVED PLANS, THE SWMP AND THE DCM VOLUME II AND MAINTAINED THROUGHOUT THE DURATION OF THE EARTH DISTURBANCE OPERATION.
- ANY EARTH DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER SO AS TO EFFECTIVELY REDUCE ACCELERATED SOIL EROSION AND RESULTING SEDIMENTATION. ALL DISTURBANCES SHALL BE DESIGNED, CONSTRUCTED, AND COMPLETED SO THAT THE EXPOSED AREA OF ANY DISTURBED LAND SHALL BE LIMITED TO THE SHORTEST PRACTICAL PERIOD OF TIME.
- ANY TEMPORARY OR PERMANENT FACILITY DESIGNED AND CONSTRUCTED FOR THE CONVEYANCE OF STORMWATER AROUND, THROUGH, OR FROM THE EARTH DISTURBANCE AREA SHALL BE DESIGNED TO LIMIT THE DISCHARGE TO A NON-EROSIVE VELOCITY.
- CONCRETE WASH WATER SHALL BE CONTAINED AND DISPOSED OF IN ACCORDANCE WITH THE SWMP. NO WASH WATER SHALL BE DISCHARGED TO OR ALLOWED TO RUNOFF TO STATE WATERS, INCLUDING ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR FACILITIES.
- EROSION CONTROL BLANKETING IS TO BE USED ON SLOPES STEEPER THAN 3:1.
- BUILDING, CONSTRUCTION, EXCAVATION, OR OTHER WASTE MATERIALS SHALL NOT BE TEMPORARILY PLACED OR STORED IN THE STREET, ALLEY, OR OTHER PUBLIC WAY, UNLESS IN ACCORDANCE WITH AN APPROVED TRAFFIC CONTROL PLAN. BMPs MAY BE REQUIRED BY EL PASO COUNTY ENGINEERING IF DEEMED NECESSARY, BASED ON SPECIFIC CONDITIONS AND CIRCUMSTANCES.
- VEHICLE TRACKING OF SOILS AND CONSTRUCTION DEBRIS OFF-SITE SHALL BE MINIMIZED. MATERIALS TRACKED OFF-SITE SHALL BE CLEANED UP AND PROPERLY DISPOSED OF IMMEDIATELY.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL WASTES FROM THE CONSTRUCTION SITE FOR DISPOSAL IN ACCORDANCE WITH LOCAL AND STATE REGULATORY REQUIREMENTS. NO CONSTRUCTION DEBRIS, TREE SLASH, BUILDING MATERIAL WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURIED, DUMPED, OR DISCHARGED AT THE SITE.
- THE OWNER, SITE DEVELOPER, CONTRACTOR, AND/OR THEIR AUTHORIZED AGENTS SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL CONSTRUCTION DEBRIS, DIRT, TRASH, ROCK, SEDIMENT, AND SAND THAT MAY ACCUMULATE IN THE STORM SEWER OR OTHER DRAINAGE CONVEYANCE SYSTEM AND STORMWATER APPURTENANCES AS A RESULT OF SITE DEVELOPMENT.
- THE QUANTITY OF MATERIALS STORED ON THE PROJECT SITE SHALL BE LIMITED, AS MUCH AS PRACTICAL, TO THAT QUANTITY REQUIRED TO PERFORM THE WORK IN AN ORDERLY SEQUENCE. ALL MATERIALS STORED ON-SITE SHALL BE STORED IN A NEAT, ORDERLY MANNER, IN THEIR ORIGINAL CONTAINERS, WITH ORIGINAL MANUFACTURER'S LABELS.
- NO CHEMICALS ARE TO BE USED BY THE CONTRACTOR, WHICH HAVE THE POTENTIAL TO BE RELEASED IN STORMWATER UNLESS PERMISSION FOR THE USE OF A SPECIFIC CHEMICAL IS GRANTED IN WRITING BY THE ECM ADMINISTRATOR. IN GRANTING THE USE OF SUCH CHEMICALS, SPECIAL CONDITIONS AND MONITORING MAY BE REQUIRED.
- BULK STORAGE STRUCTURES FOR PETROLEUM PRODUCTS AND OTHER CHEMICALS SHALL HAVE ADEQUATE PROTECTION SO AS TO CONTAIN ALL SPILLS AND PREVENT ANY SPILLED MATERIAL FROM ENTERING STATE WATERS, INCLUDING ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR FACILITIES.
- NO PERSON SHALL CAUSE THE IMPEDIMENT OF STORMWATER FLOW IN THE FLOW LINE OF THE CURB AND GUTTER OR IN THE DITCHLINE.
- INDIVIDUALS SHALL COMPLY WITH THE "COLORADO WATER QUALITY CONTROL ACT" (TITLE 25, ARTICLE 8, CRS), AND THE "CLEAN WATER ACT" (33 USC 1344), IN ADDITION TO THE REQUIREMENTS INCLUDED IN THE DCM VOLUME II AND THE ECM APPENDIX I. ALL APPROPRIATE PERMITS MUST BE OBTAINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION (NPDES, FLOODPLAIN, 404, FUGITIVE DUST, ETC.). IN THE EVENT OF CONFLICTS BETWEEN THESE REQUIREMENTS AND LAWS, RULES, OR REGULATIONS OF OTHER FEDERAL, STATE, OR COUNTY AGENCIES, THE MORE RESTRICTIVE LAWS, RULES, OR REGULATIONS SHALL APPLY.
- ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE AT APPROVED CONSTRUCTION ACCESS POINTS.
- PRIOR TO ACTUAL CONSTRUCTION THE PERMITEE SHALL VERIFY THE LOCATION OF EXISTING UTILITIES.
- A WATER SOURCE SHALL BE AVAILABLE ON SITE DURING EARTHWORK OPERATIONS AND UTILIZED AS REQUIRED TO MINIMIZE DUST FROM EARTHWORK EQUIPMENT AND WIND.
- THE SOILS REPORT FOR THIS SITE HAS BEEN PREPARED BY TERRACON CONSULTANTS AND SHALL BE CONSIDERED A PART OF THESE PLANS. REPORT NUMBER 23175117, DATED MAY 21, 2018.
- AT LEAST TEN DAYS PRIOR TO THE ANTICIPATED START OF CONSTRUCTION, FOR PROJECTS THAT WILL DISTURB 1 ACRE OR MORE, THE OWNER OR OPERATOR OF CONSTRUCTION ACTIVITY SHALL SUBMIT A PERMIT APPLICATION FOR STORMWATER DISCHARGE TO THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT, WATER QUALITY DIVISION. THE APPLICATION CONTAINS CERTIFICATION OF COMPLETION OF A STORMWATER MANAGEMENT PLAN (SWMP), OF WHICH THIS GRADING AND EROSION CONTROL PLAN MAY BE A PART. FOR INFORMATION OR APPLICATION MATERIALS CONTACT:
 COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT
 WATER QUALITY CONTROL DIVISION
 WOOD -PERMITS
 4300 CHERRY CREEK DRIVE SOUTH
 DENVER, CO 80246-1530
 ATTN: PERMITS UNIT

PALMER SOLAR GEC PLAN

SITUATED IN A PORTION OF THE SECTIONS 21, 22, 25, 26,
27, 28, 35, TOWNSHIP 16 SOUTH, RANGE 65 WEST OF
THE 6TH PRINCIPAL MERIDIAN, COUNTY OF EL PASO,
STATE OF COLORADO



VICINITY MAP
1" = 5000'

SHEET INDEX

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200	GEC PLAN COVER SHEET
201	GRADING AND EROSION OVERALL PLAN
202	GRADING AND EROSION CONTROL SITE PLAN - WEST
203	GRADING AND EROSION CONTROL SITE PLAN - EAST
204	GRADING AND EROSION CONTROL PLAN
205	GRADING AND EROSION CONTROL PLAN
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220	GRADING AND EROSION CONTROL PLAN
221	GRADING AND EROSION CONTROL PLAN
222	GESC DETAILS
223	GESC DETAILS
224	GESC DETAILS

CONTACTS:

ENGINEER:
 KIMLEY-HORN AND ASSOCIATES, INC.
 2 NEVADA NORTH AVE., SUITE 300
 COLORADO SPRINGS, CO 80903
 TEL: (719) 453-0182
 CONTACT: ERIC GUNDERSON, P.E.

EL PASO COUNTY ENGINEERING:
 3275 AKERS DR.
 COLORADO SPRINGS, CO 80922
 PHONE: (719) 520-7877
 CONTACT: JEFF RICE

SURVEYOR:
 CLARK LAND SURVEYING, INC.
 177 S. TIFFANY DRIVE, UNIT 1
 PUEBLO WEST, CO 81007
 TEL: (719) 582-1270
 CONTACT: NATHANIEL MAESTAS, PLS

DEVELOPER:
 JSI CONSTRUCTION GROUP
 1710 29th STREET, SUITE 1068
 BOULDER, CO 80301
 TEL: (720) 838-2285
 CONTACT: DARNELL EVERETT

LAND AREA:

30,970,372 SQ. FT. OR 711 ACRES MORE OR LESS

BASIS OF BEARING:

BEARINGS AS USED HEREIN ARE BASED ON THE WEST LINE OF THE NORTHWEST QUARTER (NW¼) OF SECTION 27, TOWNSHIP 16 SOUTH, RANGE 65 WEST OF THE 6TH P.M., BEING MONUMENTED AT THE NORTH END BY A FOUND 2-1/2" ALUMINUM CAP STAMPED "PLS 22095", FLUSH WITH GRADE, AND AT THE SOUTH END BY A FOUND 2-1/2" ALUMINUM CAP STAMPED "PLS 22095, FLUSH WITH GRADE, AND MEASURED TO BEAR S00°50'46"E, A DISTANCE OF 2643.10 FEET.

BENCHMARK:

SOUTHWEST CORNER OF SECTION 22, T16S, R65W. BEING MONUMENTED BY A 2-1/2" ALUMINUM CAP STAMPED "PLS 22095" ELEVATION: 5494.00 (NAVD 88).

LEGAL DESCRIPTION

SITUATION IN A PORTION SECTIONS 21, 22, 25, 26, 27, 28, 35, TOWNSHIP 16 SOUTH, RANGE 65 WEST OF THE 6TH PRINCIPAL MERIDIAN, COUNTY OF EL PASO, STATE OF COLORADO

SOIL TYPE:

THE SOIL ON SITE IS USGS HYDROLOGIC SOIL GROUPS C& D.

SITE INFORMATION:

TIMING:
 ANTICIPATED STARTING AND COMPLETION TIME PERIOD OF SITE GRADING:
 START: SPRING 2019
 END: FALL 2019

EXPECTED DATE ON WHICH THE FINAL STABILIZATION WILL BE COMPLETE:
 SUMMER 2020

AREAS:

TOTAL AREA OF SITE TO BE CLEARED, EXCAVATED OR GRADED: 501 ACRES
 TOTAL WSE-0 AREA: 501 ACRES
 TOTAL DISTURBED AREA: 534 ACRES
 TOTAL AREA OF PERMANENT INFRASTRUCTURE: 407 ACRES

RECEIVING WATERS:

NAME OF RECEIVING WATERS: FOUNTAIN CREEK

DESCRIPTION OF EXISTING VEGETATION:

THE EXISTING SITE IS CURRENTLY UNDEVELOPED AND GROUND COVER CONSISTS OF 100% WEEDS, BRUSH, GRASSES, AND TREES.

DESCRIPTION OF PERMANENT BMPs:

NATURAL VEGETATION AND CHECK DAMS

OWNER'S SIGNATURE BLOCK

THE OWNER WILL COMPLY WITH THE REQUIREMENTS OF THE GRADING AND EROSION CONTROL PLAN.

DATE

ENGINEER'S SIGNATURE BLOCK

THE GRADING AND EROSION CONTROL PLAN WAS PREPARED UNDER MY DIRECTION AND SUPERVISION AND IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. SAID PLAN HAS BEEN PREPARED ACCORDING TO THE CRITERIA ESTABLISHED BY THE COUNTY FOR GRADING AND EROSION CONTROL PLANS. I ACCEPT RESPONSIBILITY FOR ANY LIABILITY CAUSED BY ANY NEGLIGENT ACTS, ERRORS OR OMISSIONS ON MY PART IN PREPARING THIS REPORT.

ERIC GUNDERSON, PE - KIMLEY-HORN AND ASSOCIATES, INC. DATE

EL PASO COUNTY REVIEW STATEMENT

COUNTY PLAN REVIEW IS PROVIDED ONLY FOR GENERAL CONFORMANCE WITH COUNTY DESIGN CRITERIA. THE COUNTY IS NOT RESPONSIBLE FOR THE ACCURACY AND ADEQUACY OF THE DESIGN, DIMENSIONS, AND/OR ELEVATIONS WHICH SHALL BE CONFIRMED AT THE JOB SITE. THE COUNTY THROUGH THE APPROVAL OF THIS DOCUMENT ASSUMES NO RESPONSIBILITY FOR COMPLETENESS AND/OR ACCURACY OF THIS DOCUMENT.

FILED IN ACCORDANCE WITH THE REQUIREMENTS OF THE EL PASO COUNTY LAND DEVELOPMENT CODE, DRAINAGE CRITERIA, AND ENGINEERING CRITERIA MANUAL AS AMENDED.

DATE

**PALMER SOLAR
GEC PLAN COVER
SHEET
EL PASO COUNTY, CO**

Kimley-Horn

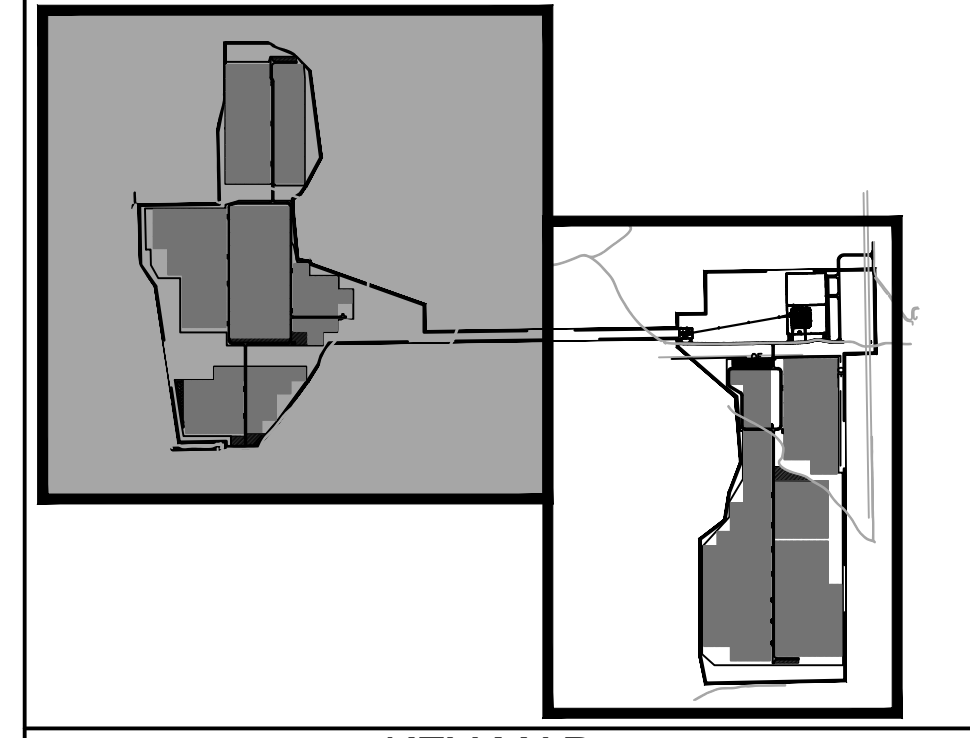
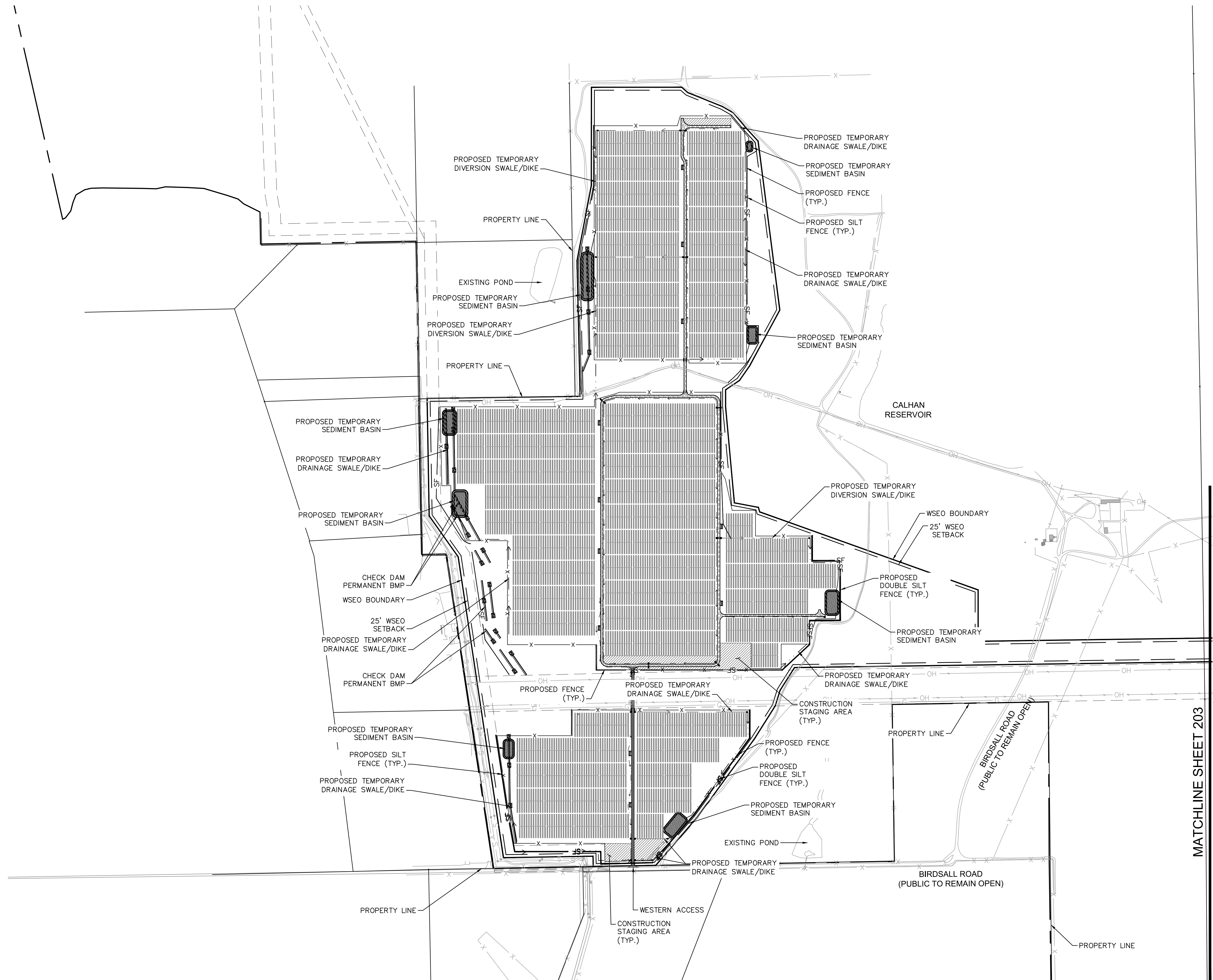
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 2 N. NEVADA AVENUE, SUITE 300
 COLORADO SPRINGS, CO 80903 (719) 453-0180

DESIGNED EJG	DRAWN KRK	CHECKED EJG
SCALE (H): SCALE (V):		SHEET NO.
DATE: DECEMBER 20, 2018		200
PROJECT NO. 096495003		
DWG. NAME 096495003_EC_CV		

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 XREFS: el_paso_street.mxd, x096495003b_cd_cd_ec
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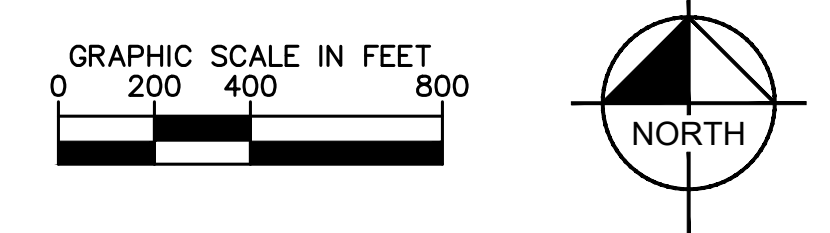


GRADING AND EROSION CONTROL PLAN-908 PLAN SUBMITTAL



LEGEND

	WSEO OVERLAY BOUNDARY
	WSEO 25' SETBACK
	PROPERTY LINE
	EXISTING EASEMENT
	EXISTING FENCE
	PROPOSED FENCE
	EXISTING OVERHEAD ELECTRIC LINE
	PROPOSED OVERHEAD ELECTRIC LINE
	PROPOSED SILT FENCING
	PROPOSED STRAW BALES
	CONSTRUCTION STAGING AREA



PALMER SOLAR
 GRADING AND EROSION
 CONTROL SITE PLAN - WEST
 EL PASO COUNTY, CO

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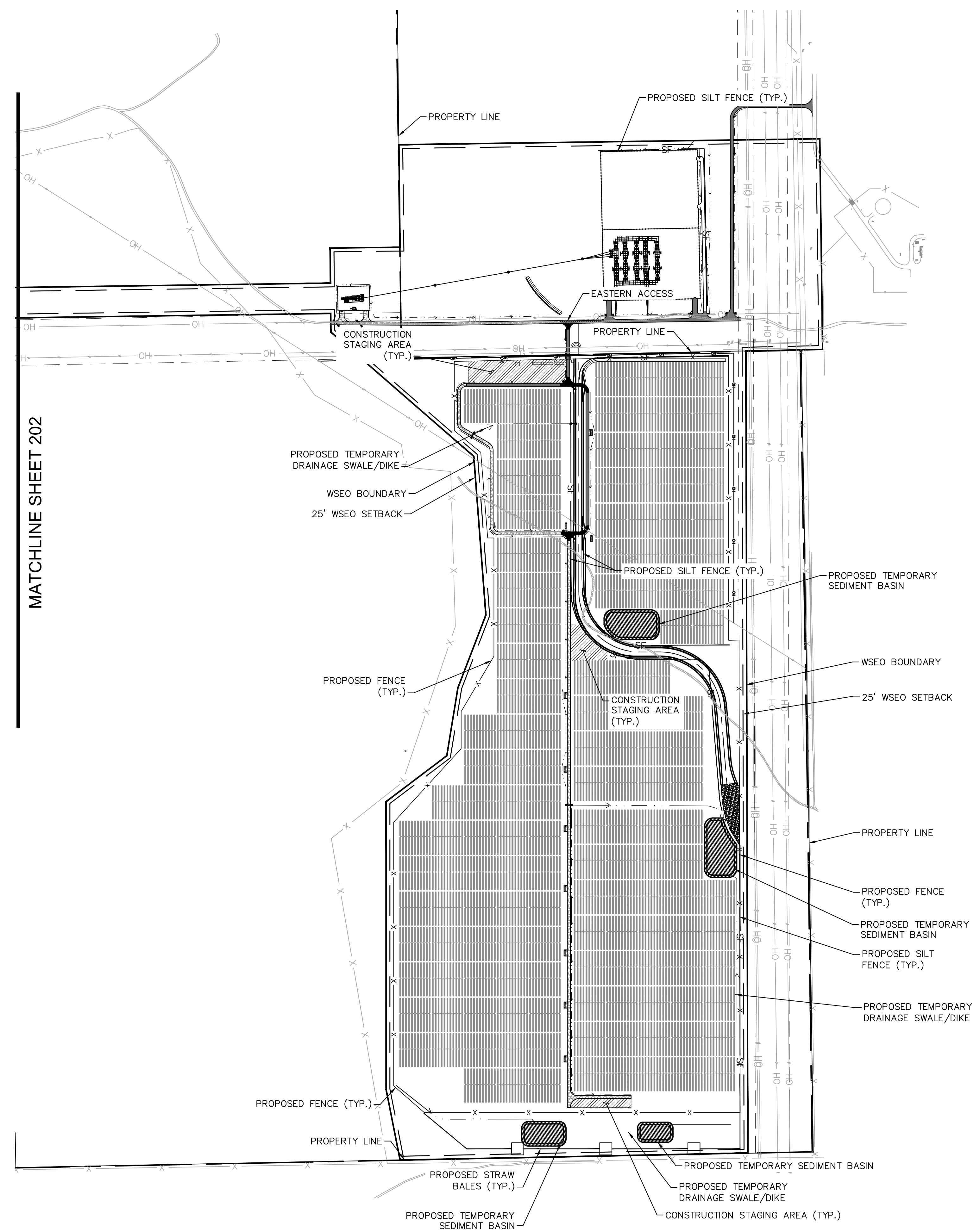
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SCALE (V):		
DATE: DECEMBER 20, 2018		
PROJECT NO. 096495003		
DWG. NAME 096495003_EC_SP		
SHEET NO. 202		

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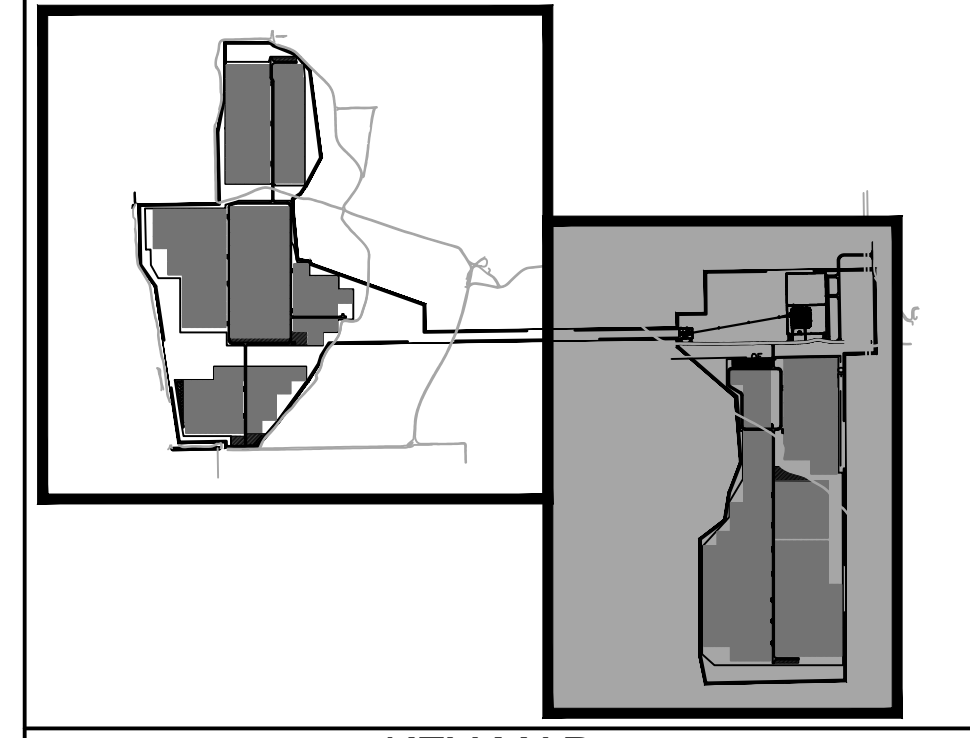


GRADING AND EROSION CONTROL PLAN-90% PLAN SUBMITTAL

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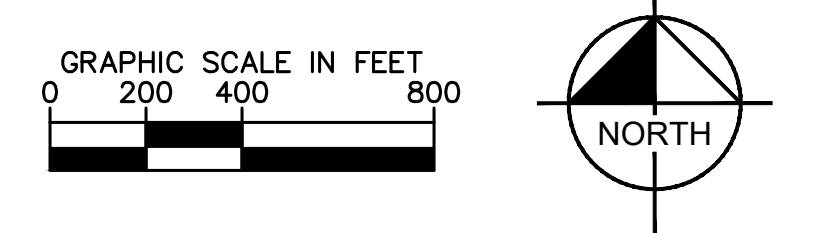
MATCHLINE SHEET 202



KEY MAP
NOT TO SCALE

LEGEND

	WSEO OVERLAY BOUNDARY
	WSEO 25' SETBACK
	PROPERTY LINE
	EXISTING EASEMENT
	EXISTING FENCE
	PROPOSED FENCE
	EXISTING OVERHEAD ELECTRIC LINE
	PROPOSED OVERHEAD ELECTRIC LINE
	PROPOSED SILT FENCING
	PROPOSED STRAW BALES
	CONSTRUCTION STAGING AREA



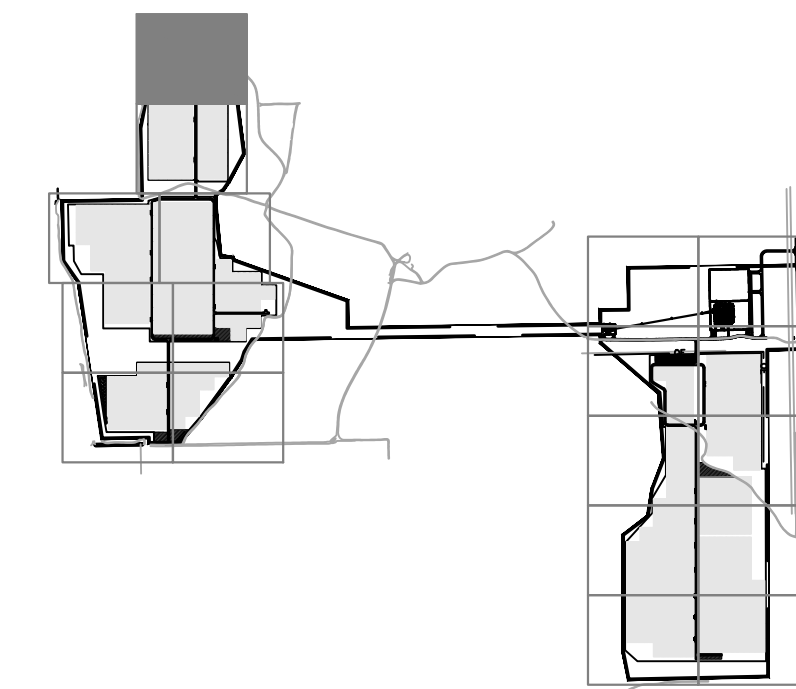
**PALMER SOLAR
 GRADING AND EROSION
 CONTROL SITE PLAN - EAST
 EL PASO COUNTY, CO**

Kimley»Horn
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 2 N. NEVADA AVENUE, SUITE 300
 COLORADO SPRINGS, CO. 80903 (719) 453-0180

DESIGNED EJG	DRAWN KRK	CHECKED EJG
SCALE (H): 1" = 400'		
SCALE (V):		
DATE: DECEMBER 20, 2018		
PROJECT NO. 096495003		
DWG. NAME 096495003_EC_SP		

SHEET NO.
203

GRADING AND EROSION CONTROL PLAN-90% PLAN SUBMITTAL



KEY MAP
NOT TO SCALE

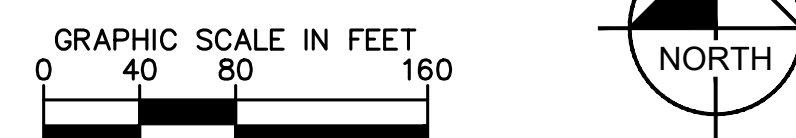
LEGEND

---	PROPERTY LINE
---(C)---	LIMITS OF CONSTRUCTION
X---	PERMANENT FENCE
---(SF)---	SILT FENCE
---(S)---	STRAW BALES
---(DS)---	DRAINAGE SWALE/DIKE
---(CD)---	CHECK DAM
---(SSA)---	STABILIZED STAGING AREA
---(CWA)---	CONCRETE WASHOUT
---(VTC)---	VEHICLE TRACKING CONTROL
---(CIP)---	CULVERT INLET PROTECTION
---(SP)---	SOIL STOCKPILE
---(SB)---	TEMPORARY SEDIMENT BASIN
---	FLOW ARROW
---(PS)---	PERMANENT SEEDING
---	EXISTING MINOR CONTOUR
---	EXISTING MAJOR CONTOUR
---	PROPOSED MINOR CONTOUR
---	PROPOSED MAJOR CONTOUR
---	ROADSIDE SWALE

LIMITS OF CONSTRUCTION

ONSITE IMPROVEMENTS	= ±549 ACRES
OFFSITE IMPROVEMENTS	= ±0 ACRES
TOTAL	±549 ACRES

- NOTES**
- TEMPORARY STABILIZATION (TS) SHALL BE IMPLEMENTED WITHIN THE DISTURBED PORTIONS OF THE PROJECT SITE NO LATER THAN 14 DAYS FOLLOWING THE CEASE OF CONSTRUCTION ACTIVITIES WITHIN THE DISTURBED AREAS.
 - PERMANENT STABILIZATION (PS) MAY BE USED WITHIN AREAS OF TEMPORARY STABILIZATION (TS) AT THE CONTRACTOR'S DISCRETION. STABILIZATION SHALL BE APPLIED IN ACCORDANCE WITH APPLICABLE TEMPORARY STABILIZATION SEQUENCING REQUIREMENTS.
 - THIS PLAN SHOWS BOTH INITIAL AND FINAL BMP. REFERENCE SHEET 201 FOR PHASING AND SEQUENCING PLAN.
 - CONTRACTOR SHALL MAINTAIN STABILIZED STAGING AREA (SSA), VEHICLE TRACKING CONTROL (VTC), AND CONCRETE WASHOUT AREA (CWA) AT THE CONSTRUCTION ENTRANCE AT ALL TIMES. CONTRACTOR SHALL UPDATE THE EROSION CONTROL PLAN IN THE FIELD TO INDICATE THE LOCATION OF THE SSA, VTC, AND CWA BMP'S AS EXCAVATION SEQUENCING DICTATES.
 - CHECK DAMS TO BE SPACED ALONG DRAINAGE SWALES PER UDFCD DETAILS. SCL MAY BE USED IN PLACE OF RIP RAP.
 - FOR GRADING OF CHECK DAMS AND CHANNELS, SEE SHEETS 127 TO 144.

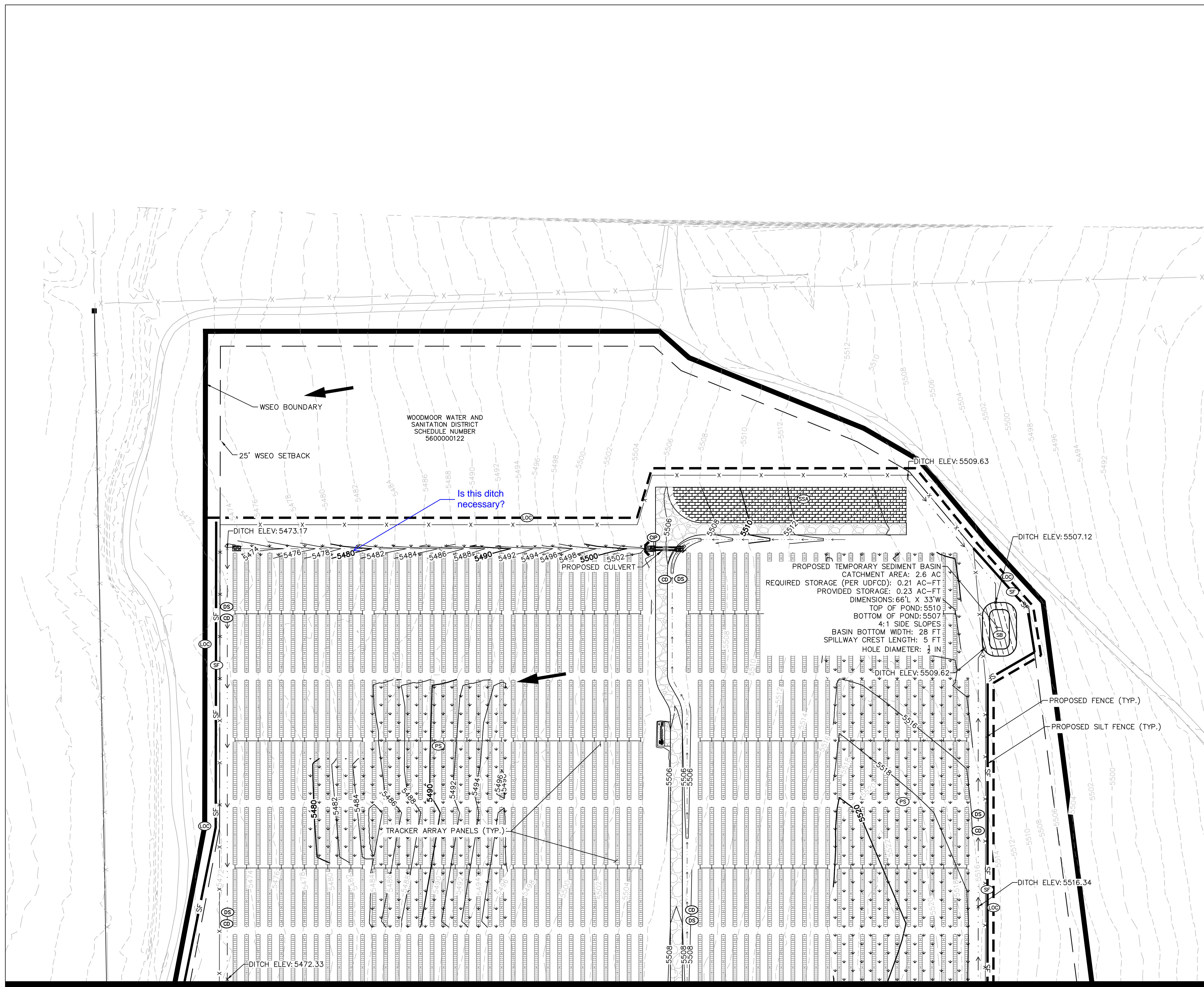


**PALMER SOLAR
GRADING AND EROSION
CONTROL PLAN
EL PASO COUNTY, CO**

Kimley Horn

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2 N. NEVADA AVENUE, SUITE 300
COLORADO SPRINGS, CO 80903 (719) 453-0180

DESIGNED EJG	DRAWN KRK	CHECKED EJG
SCALE (H): 1" = 80' SCALE (V):		
DATE: DECEMBER 20, 2018		SHEET NO. 204
PROJECT NO. 096495003		
DWG. NAME 096495003_EC		



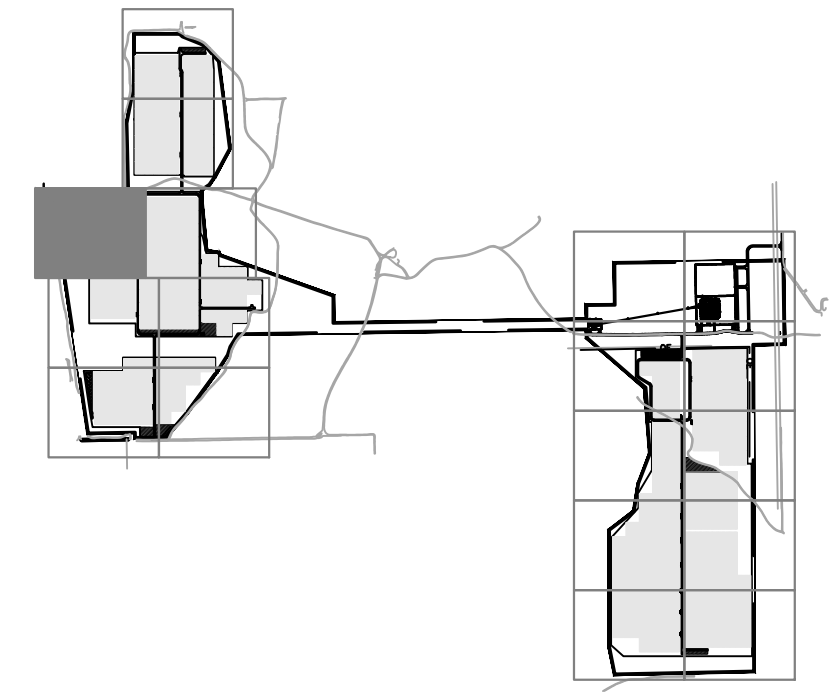
MATCHLINE- SEE SHEET 205

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XREFS: x096495003b_c_EC x096495003v_c404_wseo_ave_away_boundary_180712_x096495003d_x096495003d
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GRADING AND EROSION CONTROL PLAN-908 PLAN SUBMITTAL

MATCHLINE- SEE SHEET 205



KEY MAP

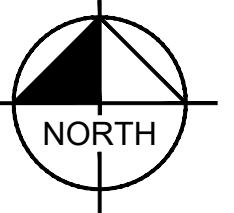
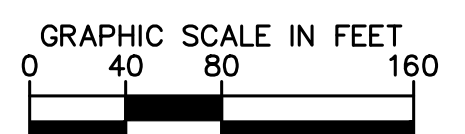
- LEGEND**
- PROPERTY LINE
 - LIMITS OF CONSTRUCTION
 - X PERMANENT FENCE
 - SF SILT FENCE
 - SB STRAW BALES
 - DS DRAINAGE SWALE/DIKE
 - CD CHECK DAM
 - SA STABILIZED STAGING AREA
 - WA CONCRETE WASHOUT
 - VTC VEHICLE TRACKING CONTROL
 - CIP CULVERT INLET PROTECTION
 - SP SOIL STOCKPILE
 - SB TEMPORARY SEDIMENT BASIN
 - Flow Arrow FLOW ARROW
 - PS PERMANENT SEEDING
 - - - -5496- - - EXISTING MINOR CONTOUR
 - - - -5496- - - EXISTING MAJOR CONTOUR
 - - - -5496- - - PROPOSED MINOR CONTOUR
 - - - -5496- - - PROPOSED MAJOR CONTOUR
 - ROADSIDE MAJOR

LIMITS OF CONSTRUCTION

- ONSITE IMPROVEMENTS = ±549 ACRES
- OFFSITE IMPROVEMENTS = ±0 ACRES
- TOTAL = ±549 ACRES

TOTAL NOTES

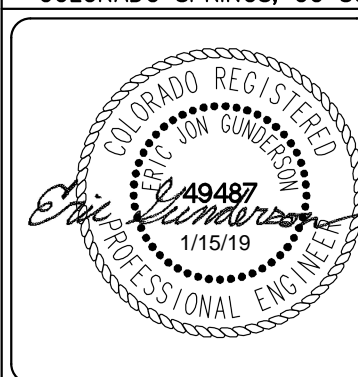
1. TEMPORARY STABILIZATION (TS) SHALL BE IMPLEMENTED WITHIN THE DISTURBED PORTIONS OF THE PROJECT SITE NO LATER THAN 14 DAYS FOLLOWING THE CEASE OF CONSTRUCTION ACTIVITIES WITHIN THE DISTURBED AREAS.
2. PERMANENT STABILIZATION (PS) MAY BE USED WITHIN AREAS OF TEMPORARY STABILIZATION (TS) AT THE CONTRACTOR'S DISCRETION. STABILIZATION SHALL BE APPLIED IN ACCORDANCE WITH APPLICABLE TEMPORARY STABILIZATION SEQUENCING REQUIREMENTS.
3. THIS PLAN SHOWS BOTH INITIAL AND FINAL BMP. REFERENCE SHEET 201 FOR PHASING AND SEQUENCING PLAN.
4. CONTRACTOR SHALL MAINTAIN STABILIZED STAGING AREA (SSA), VEHICLE TRACKING CONTROL (VTC), AND CONCRETE WASHOUT AREA (CWA) AT THE CONSTRUCTION ENTRANCE AT ALL TIMES. CONTRACTOR SHALL UPDATE THE EROSION CONTROL PLAN IN THE FIELD TO INDICATE THE LOCATION OF THE SSA, VTC, AND CWA BMPS AS EXCAVATION SEQUENCING DICTATES.
5. CHECK DAMS TO BE SPACED ALONG DRAINAGE SWALES PER UDFCD DETAILS. SCL MAY BE USED IN PLACE OF RIP RAP.
6. FOR GRADING OF CHECK DAMS AND CHANNELS, SEE SHEETS 127 TO 144.



PALMER SOLAR
GRADING AND EROSION
CONTROL PLAN
EL PASO COUNTY, CO

Kimley Horn

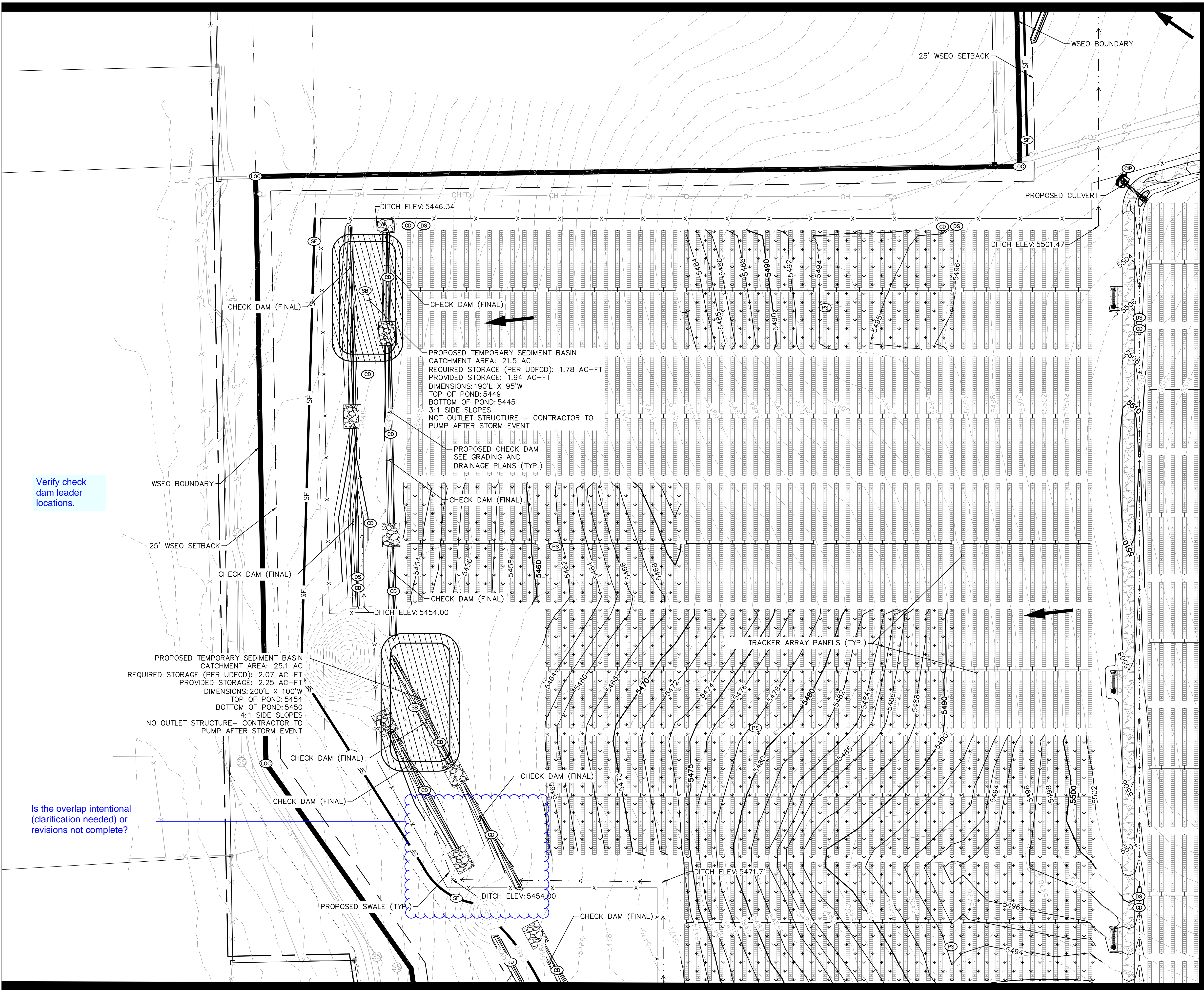
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2 N. NEVADA AVENUE, SUITE 300
COLORADO SPRINGS, CO 80903 (719) 453-0180



DESIGNED EJG	DRAWN KRK	CHECKED EJG
SCALE (H): 1" = 80'		
SCALE (V):		
DATE: DECEMBER 20, 2018		
PROJECT NO. 096495003		
DWG. NAME 096495003_EC		
SHEET NO.		206

GRADING AND EROSION CONTROL PLAN-908 PLAN SUBMITTAL

MATCHLINE- SEE SHEET 207



Verify check dam leader locations.

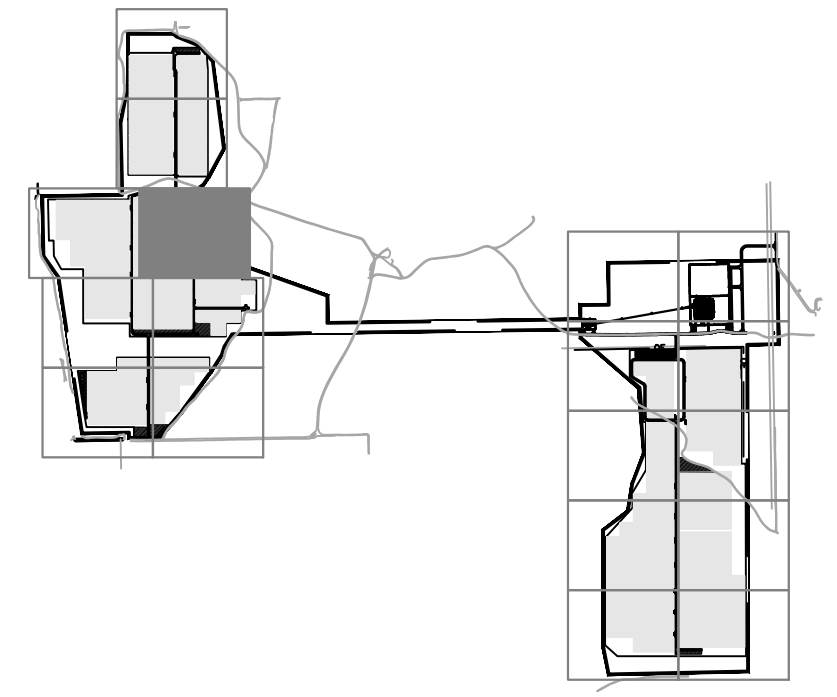
Is the overlap intentional (clarification needed) or revisions not complete?

MATCHLINE- SEE SHEET 208

K:\COS_Civil\096495003_Palmer Solar\CADD\Sheets\096495003_EC.dwg Dec. 20, 2018 kevin.kofford
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MATCHLINE- SEE SHEET 205



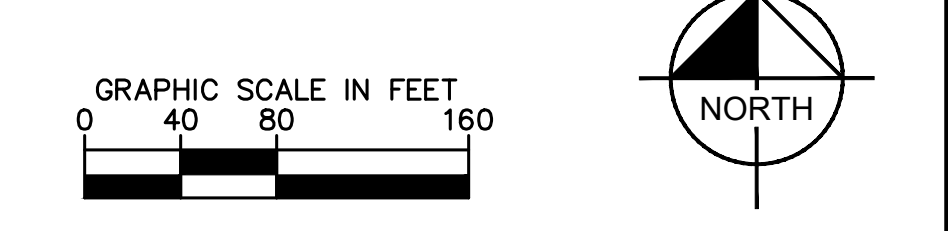
LEGEND

	PROPERTY LINE
	LIMITS OF CONSTRUCTION
	PERMANENT FENCE
	SILT FENCE
	STRAW BALES
	DRAINAGE SWALE/DIKE
	CHECK DAM
	STABILIZED STAGING AREA
	CONCRETE WASHOUT
	VEHICLE TRACKING CONTROL
	CULVERT INLET PROTECTION
	SOIL STOCKPILE
	TEMPORARY SEDIMENT BASIN
	FLOW ARROW
	PERMANENT SEEDING
	EXISTING MINOR CONTOUR
	EXISTING MAJOR CONTOUR
	PROPOSED MINOR CONTOUR
	PROPOSED MAJOR CONTOUR
	ROADSIDE SWALE

LIMITS OF CONSTRUCTION

ON-SITE IMPROVEMENTS	= ±549 ACRES
OFF-SITE IMPROVEMENTS	= ±0 ACRES
TOTAL	= ±549 ACRES

- NOTES**
- TEMPORARY STABILIZATION (TS) SHALL BE IMPLEMENTED WITHIN THE DISTURBED PORTIONS OF THE PROJECT SITE NO LATER THAN 14 DAYS FOLLOWING THE CEASE OF CONSTRUCTION ACTIVITIES WITHIN THE DISTURBED AREAS.
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 - FOR GRADING OF CHECK DAMS AND CHANNELS, SEE SHEETS 127 TO 144.

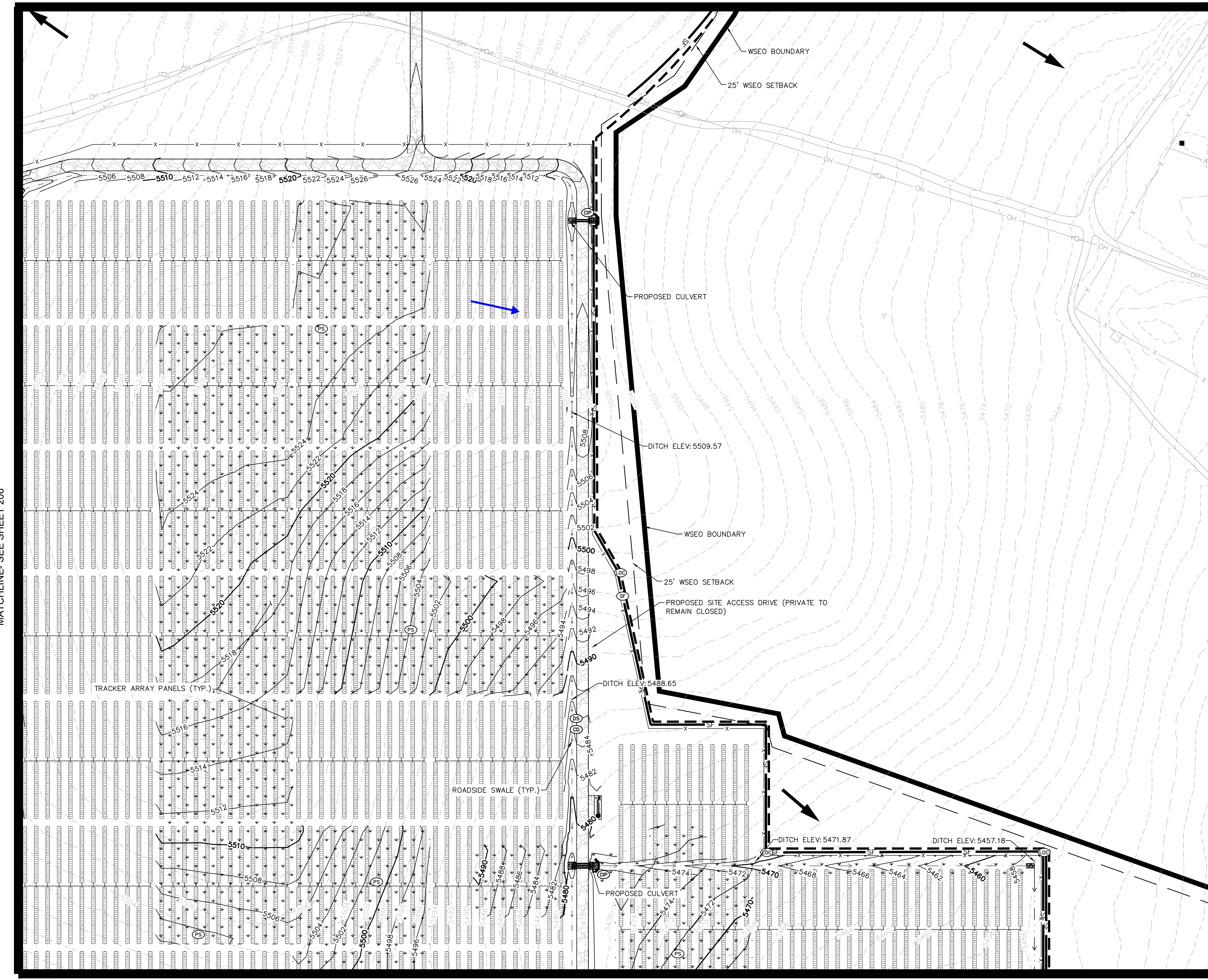


**PALMER SOLAR
GRADING AND EROSION
CONTROL PLAN
EL PASO COUNTY, CO**

Kimley Horn

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COLORADO SPRINGS, CO 80903 (719) 453-0180

DESIGNED EJG	DRAWN KRK	CHECKED EJG
SCALE (H): 1" = 80' SCALE (V):		SHEET NO. 207
DATE: DECEMBER 20, 2018		
PROJECT NO. 096495003		
DWG. NAME 096495003_EC		



MATCHLINE- SEE SHEET 206

MATCHLINE- SEE SHEET 208

MATCHLINE- SEE SHEET 209

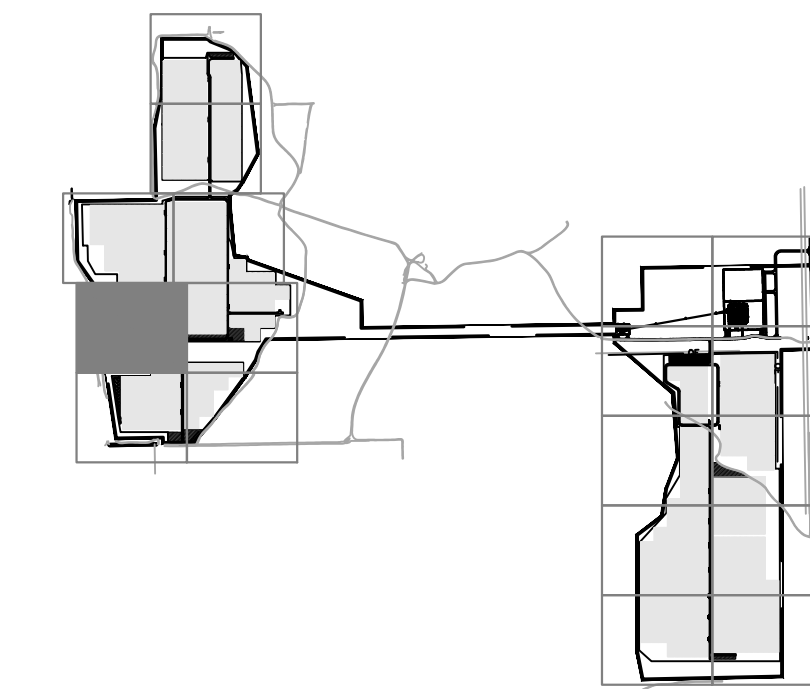
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XREFS: 096495003b_c_EC_096495003Vf_c0404_wseo_overlay_boundary_180712_096495003.dwg, 096495003u
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GRADING AND EROSION CONTROL PLAN-908 PLAN SUBMITTAL

MATCHLINE- SEE SHEET 206

MATCHLINE- SEE SHEET 207



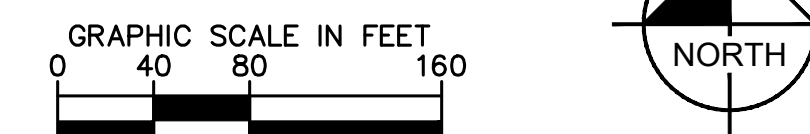
LEGEND

---	PROPERTY LINE
---	LIMITS OF CONSTRUCTION
X---	PERMANENT FENCE
SF---	SILT FENCE
---	STRAW BALES
---	DRAINAGE SWALE/DIKE
---	CHECK DAM
---	STABILIZED STAGING AREA
---	CONCRETE WASHOUT
---	VEHICLE TRACKING CONTROL
---	CULVERT INLET PROTECTION
---	SOIL STOCKPILE
---	TEMPORARY SEDIMENT BASIN
---	FLOW ARROW
---	PERMANENT SEEDING
---	EXISTING MINOR CONTOUR
---	EXISTING MAJOR CONTOUR
---	PROPOSED MINOR CONTOUR
---	PROPOSED MAJOR CONTOUR
---	ROADSIDE SWALE

LIMITS OF CONSTRUCTION

ONSITE IMPROVEMENTS	= ±549 ACRES
OFFSITE IMPROVEMENTS	= ±0 ACRES
TOTAL	= ±549 ACRES

- NOTES**
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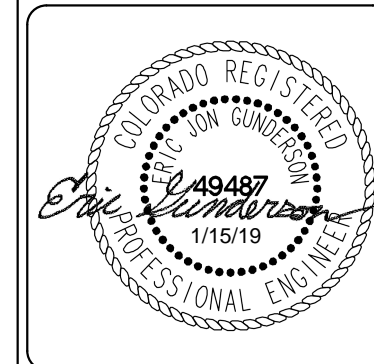


**PALMER SOLAR
GRADING AND EROSION
CONTROL PLAN
EL PASO COUNTY, CO**

Kimley-Horn

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2 N. NEVADA AVENUE, SUITE 300
COLORADO SPRINGS, CO 80903 (719) 453-0180

DESIGNED EJG	DRAWN KRK	CHECKED EJG
SCALE (H): 1" = 80' SCALE (V):		
DATE: DECEMBER 20, 2018		
PROJECT NO. 096495003		
DWG. NAME 096495003_EC		
SHEET NO. 208		



Is the swale supposed to flow this way? Is it necessary?

Verify silt fence location/alignment (should follow contours)

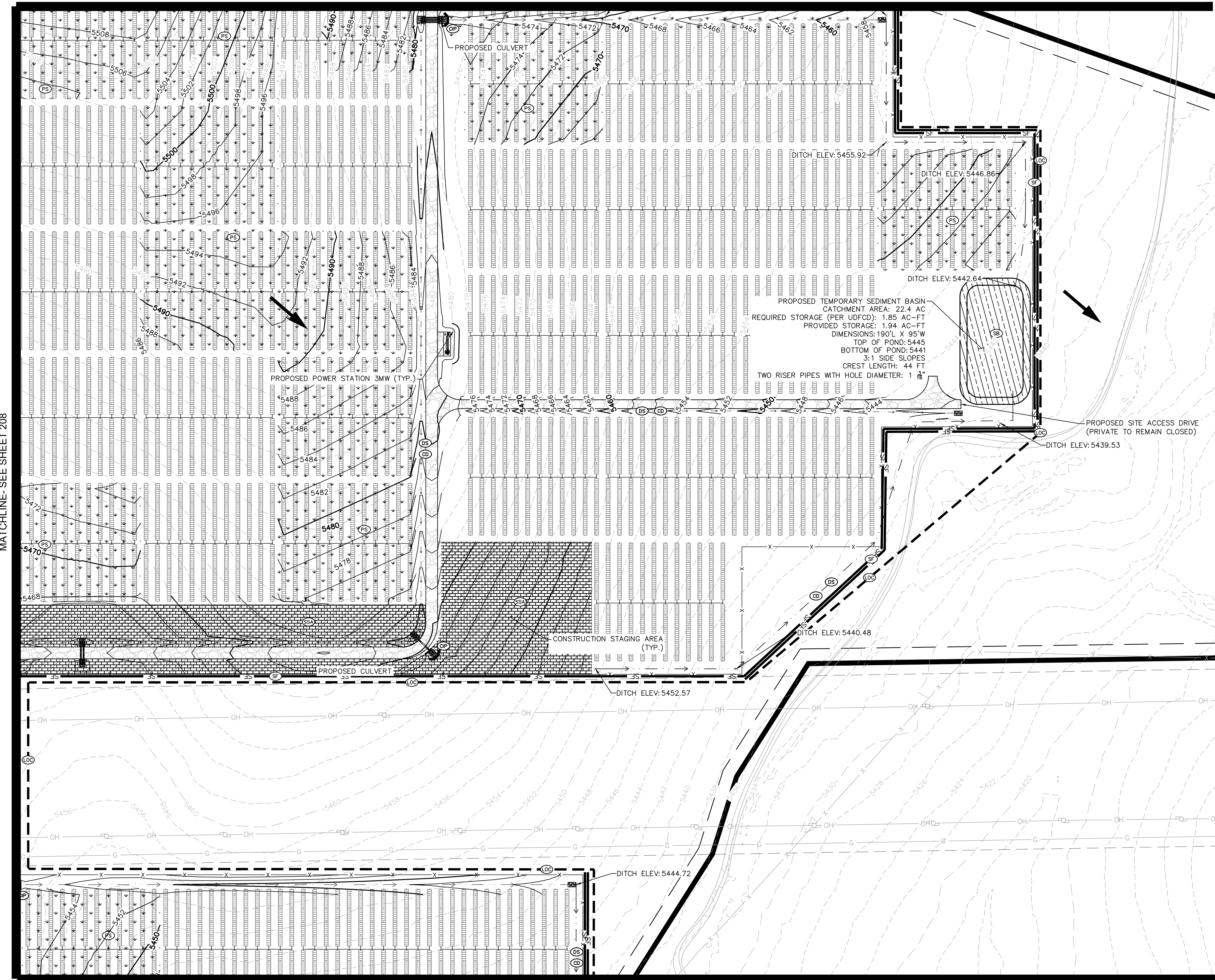
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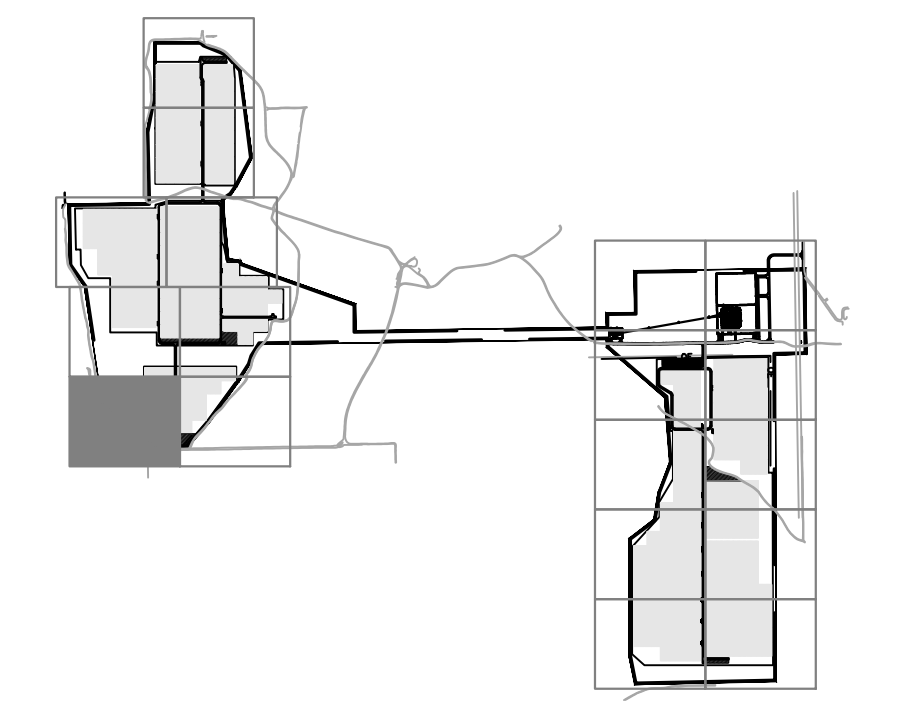
MATCHLINE- SEE SHEET 210

MATCHLINE- SEE SHEET 209

GRADING AND EROSION CONTROL PLAN-908 PLAN SUBMITTAL



MATCHLINE- SEE SHEET 208



KEY MAP

LEGEND

	PROPERTY LINE
	LIMITS OF CONSTRUCTION
	PERMANENT FENCE
	SILT FENCE
	STRAW BALES
	DRAINAGE SWALE/DIKE
	CHECK DAM
	STABILIZED STAGING AREA
	CONCRETE WASHOUT
	VEHICLE TRACKING CONTROL
	CULVERT INLET PROTECTION
	SOIL STOCKPILE
	TEMPORARY SEDIMENT BASIN
	FLOW ARROW
	PERMANENT SEEDING
	EXISTING MINOR CONTOUR
	EXISTING MAJOR CONTOUR
	PROPOSED MINOR CONTOUR
	PROPOSED MAJOR CONTOUR
	ROADSIDE SWALE

LIMITS OF CONSTRUCTION

ON-SITE IMPROVEMENTS	= ±549 ACRES
OFF-SITE IMPROVEMENTS	= ±0 ACRES
TOTAL	= ±549 ACRES

NOTES

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K:\COS_Civil\096495003_Palmer Solar\CADD\Sheets\096495003_EC.dwg Dec. 20, 2018 kevin.kofford
XREFS: 096495003b_c_EC 096495003V c040_nesc_overlay_boundary_180712_096495003.dwg 096495003.dwg
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**PALMER SOLAR
GRADING AND EROSION
CONTROL PLAN
EL PASO COUNTY, CO**

Kimley-Horn

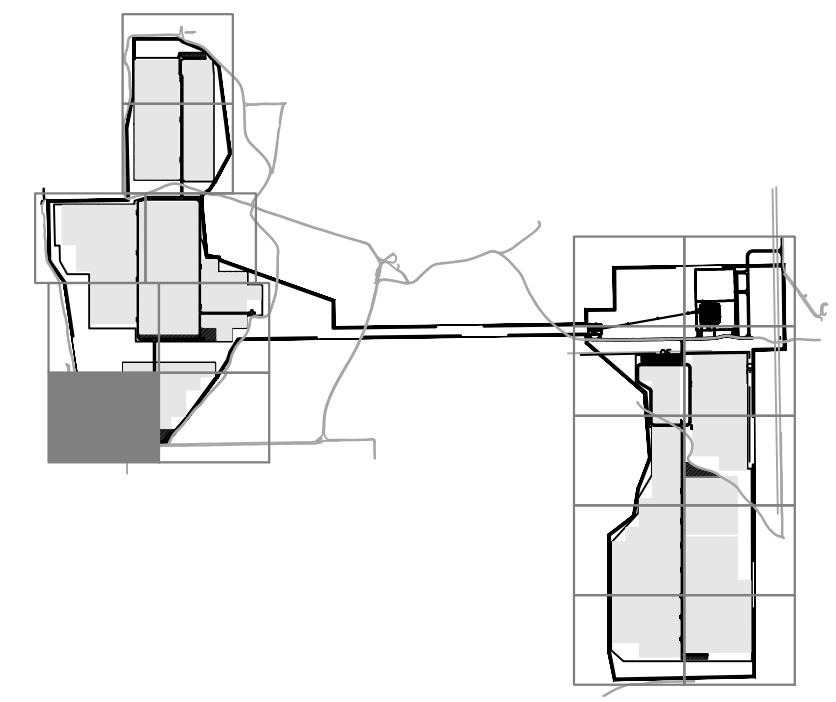
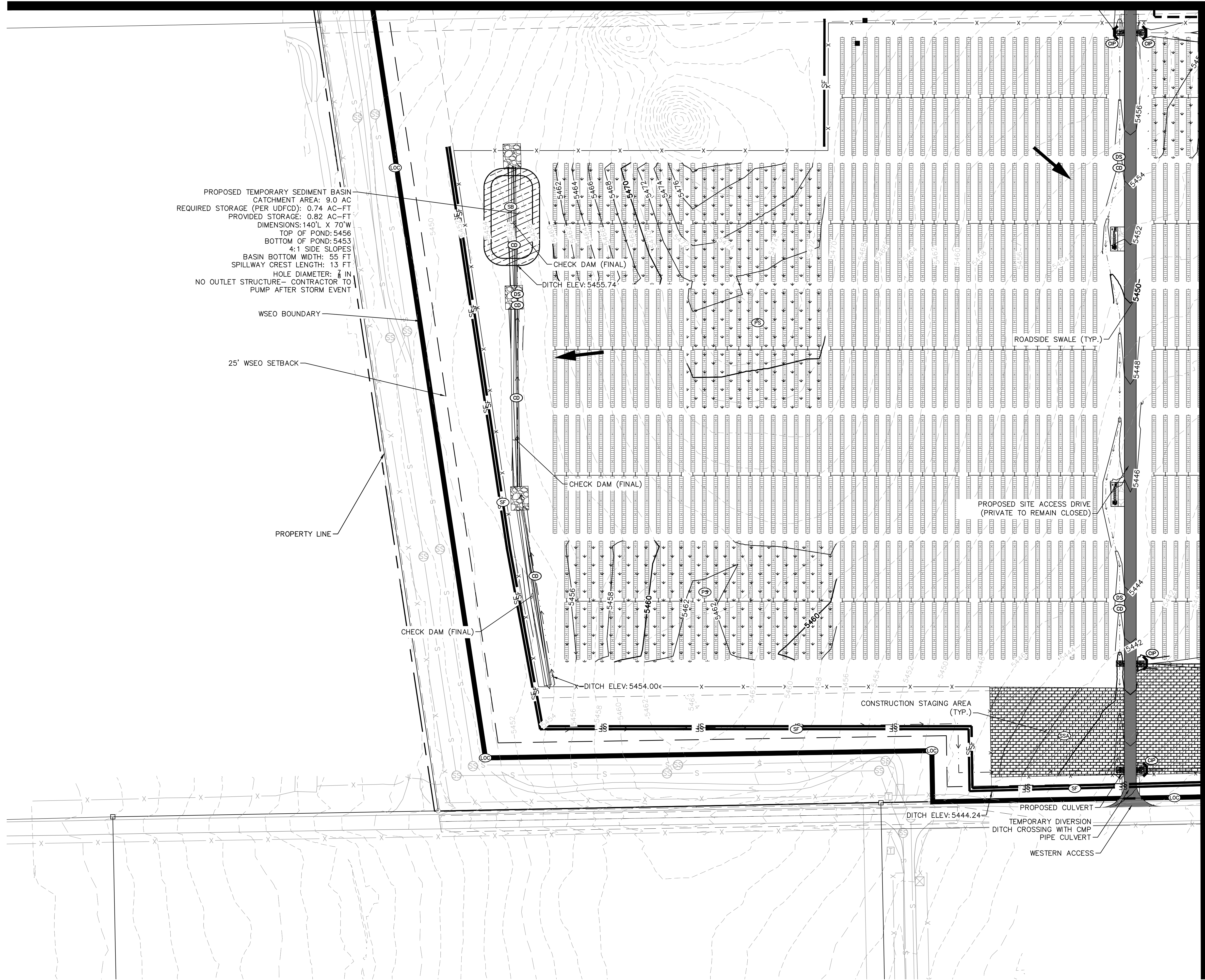
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2 N. NEVADA AVENUE, SUITE 300
COLORADO SPRINGS, CO 80903 (719) 453-0180

DESIGNED EJG	DRAWN KRR	CHECKED EJG
SCALE (H): 1" = 80' SCALE (V):		
DATE: DECEMBER 20, 2018		SHEET NO. 209
PROJECT NO. 096495003		
DWG. NAME 096495003_EC		

PROFESSIONAL ENGINEER
1/15/19

GRADING AND EROSION CONTROL PLAN-908 PLAN SUBMITTAL

MATCHLINE- SEE SHEET 208



- LEGEND**
- — — — — PROPERTY LINE
 - ⊙ LIMITS OF CONSTRUCTION
 - X — PERMANENT FENCE
 - SF — SILT FENCE
 - [] — STRAW BALES
 - — — — — DRAINAGE SWALE/DIKE
 - ⊙ CHECK DAM
 - [] STABILIZED STAGING AREA
 - [] CONCRETE WASHOUT
 - [] VEHICLE TRACKING CONTROL
 - [] CULVERT INLET PROTECTION
 - [] SOIL STOCKPILE
 - [] TEMPORARY SEDIMENT BASIN
 - ← — — — — FLOW ARROW
 - ↓ — — — — PERMANENT SEEDING
 - - - - - 5496 - - - - - EXISTING MINOR CONTOUR
 - - - - - 5496 - - - - - EXISTING MAJOR CONTOUR
 - - - - - 5496 - - - - - PROPOSED MINOR CONTOUR
 - - - - - 5496 - - - - - PROPOSED MAJOR CONTOUR
 - — — — — ROADSIDE SWALE

LIMITS OF CONSTRUCTION

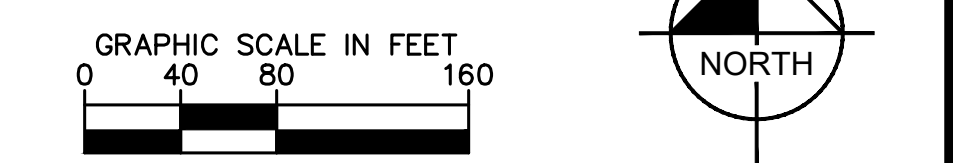
ONSITE IMPROVEMENTS = ± 549 ACRES

OFFSITE IMPROVEMENTS = ± 0 ACRES

TOTAL = ± 549 ACRES

NOTES

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**PALMER SOLAR
 GRADING AND EROSION
 CONTROL PLAN
 EL PASO COUNTY, CO**

Kimley & Horn
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 COLORADO SPRINGS, CO 80903 (719) 453-0180

DESIGNED EJG	DRAWN KRK	CHECKED EJG
SCALE (H): 1" = 80'		
SCALE (V):		
DATE: DECEMBER 20, 2018		
PROJECT NO. 096495003		
DWG. NAME 096495003_EC		
SHEET NO. 210		

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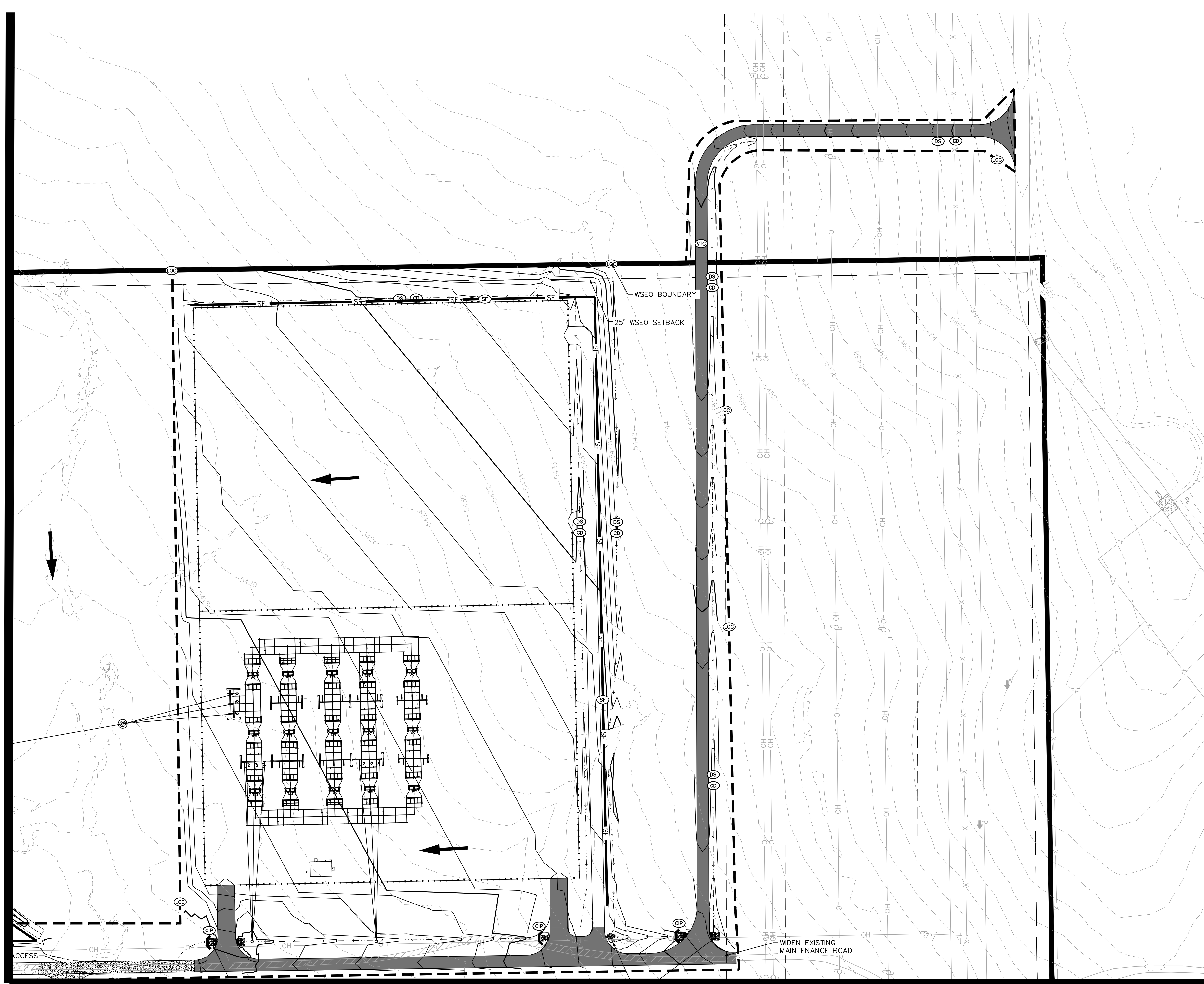


GRADING AND EROSION CONTROL PLAN-908 PLAN SUBMITTAL

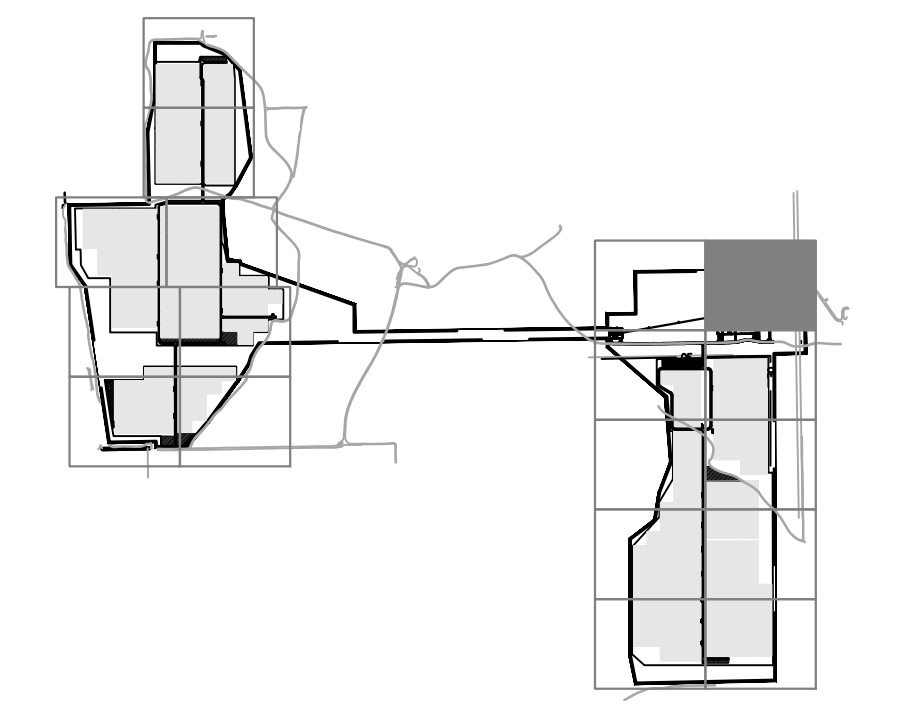
MATCHLINE- SEE SHEET 211

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MATCHLINE- SEE SHEET 212



MATCHLINE- SEE SHEET 215



KEY MAP

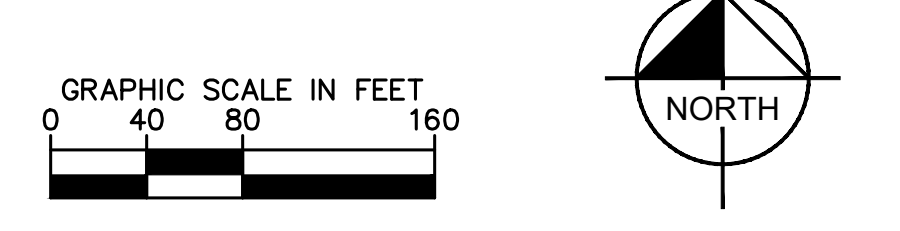
LEGEND

---	PROPERTY LINE
---	LIMITS OF CONSTRUCTION
X	PERMANENT FENCE
SF	SILT FENCE
□	STRAW BALES
→	DRAINAGE SWALE/DIKE
CD	CHECK DAM
SSA	STABILIZED STAGING AREA
CWA	CONCRETE WASHOUT
VTC	VEHICLE TRACKING CONTROL
CIP	CULVERT INLET PROTECTION
SP	SOIL STOCKPILE
SB	TEMPORARY SEDIMENT BASIN
←	FLOW ARROW
PS	PERMANENT SEEDING
- - -	EXISTING MINOR CONTOUR
---	EXISTING MAJOR CONTOUR
- - -	PROPOSED MINOR CONTOUR
---	PROPOSED MAJOR CONTOUR
RS	ROADSIDE SWALE

LIMITS OF CONSTRUCTION

ONSITE IMPROVEMENTS	= ±549 ACRES
OFFSITE IMPROVEMENTS	= ±0 ACRES
TOTAL	= ±549 ACRES

- NOTES**
- TEMPORARY STABILIZATION (TS) SHALL BE IMPLEMENTED WITHIN THE DISTURBED PORTIONS OF THE PROJECT SITE NO LATER THAN 14 DAYS FOLLOWING THE CEASE OF CONSTRUCTION ACTIVITIES WITHIN THE DISTURBED AREAS.
 - PERMANENT STABILIZATION (PS) MAY BE USED WITHIN AREAS OF TEMPORARY STABILIZATION (TS) AT THE CONTRACTOR'S DISCRETION. STABILIZATION SHALL BE APPLIED IN ACCORDANCE WITH APPLICABLE TEMPORARY STABILIZATION SEQUENCING REQUIREMENTS.
 - THIS PLAN SHOWS BOTH INITIAL AND FINAL BMP. REFERENCE SHEET 201 FOR PHASING AND SEQUENCING PLAN.
 - CONTRACTOR SHALL MAINTAIN STABILIZED STAGING AREA (SSA), VEHICLE TRACKING CONTROL (VTC), AND CONCRETE WASHOUT AREA (CWA) AT THE CONSTRUCTION ENTRANCE AT ALL TIMES. CONTRACTOR SHALL UPDATE THE EROSION CONTROL PLAN IN THE FIELD TO INDICATE THE LOCATION OF THE SSA, VTC, AND CWA BMPS AS EXCAVATION SEQUENCING DICTATES.
 - CHECK DAMS TO BE SPACED ALONG DRAINAGE SWALES PER UDFCD DETAILS. SCL MAY BE USED IN PLACE OF RIP RAP.
 - FOR GRADING OF CHECK DAMS AND CHANNELS, SEE SHEETS 127 TO 144.



**PALMER SOLAR
 GRADING AND EROSION
 CONTROL PLAN
 EL PASO COUNTY, CO**

Kimley Horn

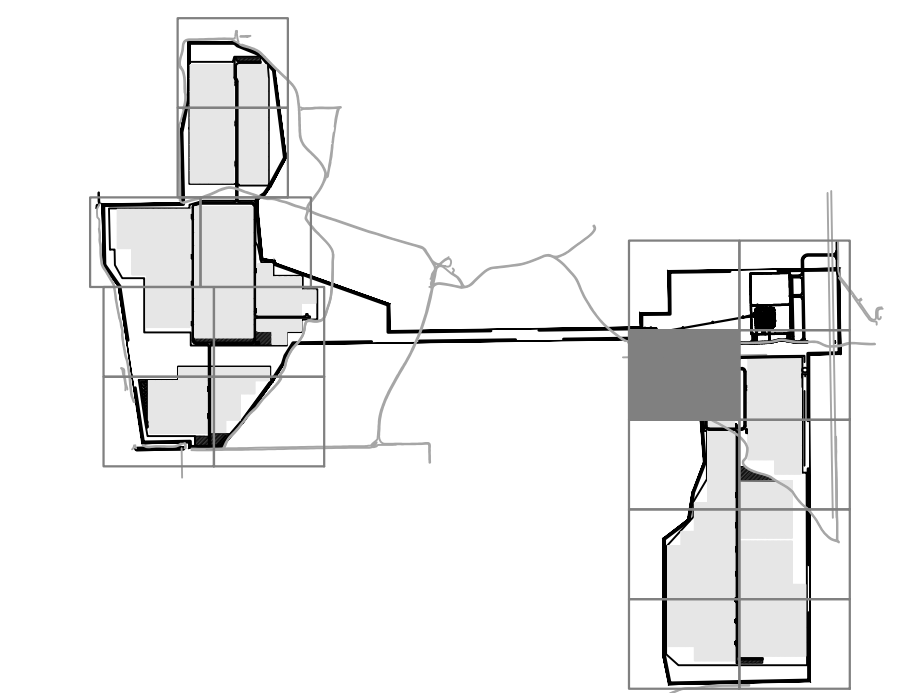
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 2 N. NEVADA AVENUE, SUITE 300
 COLORADO SPRINGS, CO 80903 (719) 453-0180

DESIGNED EJG	DRAWN KRK	CHECKED EJG
SCALE (H): 1" = 80' SCALE (V):		
DATE: DECEMBER 20, 2018		
PROJECT NO. 096495003		
DWG. NAME 096495003_EC		
SHEET NO. 213		



GRADING AND EROSION CONTROL PLAN-908 PLAN SUBMITTAL

MATCHLINE- SEE SHEET 212



KEY MAP

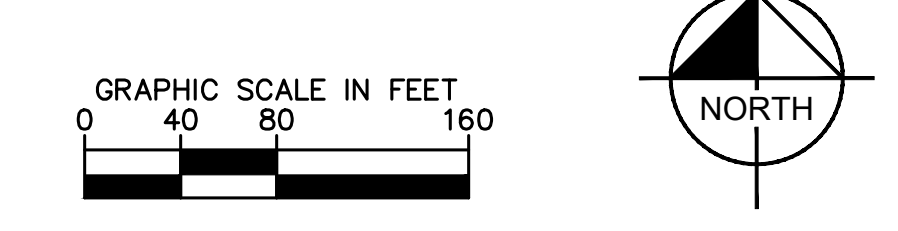
LEGEND

---	PROPERTY LINE
---(X)---	LIMITS OF CONSTRUCTION
---	PERMANENT FENCE
---(SF)---	SILT FENCE
---	STRAW BALES
---	DRAINAGE SWALE/DIKE
---	CHECK DAM
---	STABILIZED STAGING AREA
---	CONCRETE WASHOUT
---	VEHICLE TRACKING CONTROL
---	CULVERT INLET PROTECTION
---	SOIL STOCKPILE
---	TEMPORARY SEDIMENT BASIN
---	FLOW ARROW
---	PERMANENT SEEDING
---	EXISTING MINOR CONTOUR
---	EXISTING MAJOR CONTOUR
---	PROPOSED MINOR CONTOUR
---	PROPOSED MAJOR CONTOUR
---	ROADSIDE SWALE

LIMITS OF CONSTRUCTION

ONSITE IMPROVEMENTS	= ±549 ACRES
OFFSITE IMPROVEMENTS	= ±0 ACRES
TOTAL	= ±549 ACRES

- NOTES**
- TEMPORARY STABILIZATION (TS) SHALL BE IMPLEMENTED WITHIN THE DISTURBED PORTIONS OF THE PROJECT SITE NO LATER THAN 14 DAYS FOLLOWING THE CEASE OF CONSTRUCTION ACTIVITIES WITHIN THE DISTURBED AREAS.
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 - THIS PLAN SHOWS BOTH INITIAL AND FINAL BMP. REFERENCE SHEET 201 FOR PHASING AND SEQUENCING PLAN.
 - CONTRACTOR SHALL MAINTAIN STABILIZED STAGING AREA (SSA), VEHICLE TRACKING CONTROL (VTC), AND CONCRETE WASHOUT AREA (CWA) AT THE CONSTRUCTION ENTRANCE AT ALL TIMES. CONTRACTOR SHALL UPDATE THE EROSION CONTROL PLAN IN THE FIELD TO INDICATE THE LOCATION OF THE SSA, VTC, AND CWA BMPS AS EXCAVATION SEQUENCING DICTATES.
 - CHECK DAMS TO BE SPACED ALONG DRAINAGE SWALES PER UDFCD DETAILS. SCL MAY BE USED IN PLACE OF RIP RAP.
 - FOR GRADING OF CHECK DAMS AND CHANNELS, SEE SHEETS 127 TO 144.



**PALMER SOLAR
GRADING AND EROSION
CONTROL PLAN
EL PASO COUNTY, CO**

Kimley-Horn

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2 N. NEVADA AVENUE, SUITE 300
COLORADO SPRINGS, CO 80903 (719) 453-0180

DESIGNED EJG	DRAWN KRK	CHECKED EJG
SCALE (H): 1" = 80' SCALE (V):		
DATE: DECEMBER 20, 2018		
PROJECT NO. 096495003		
DWG. NAME 096495003_EC		
SHEET NO. 214		



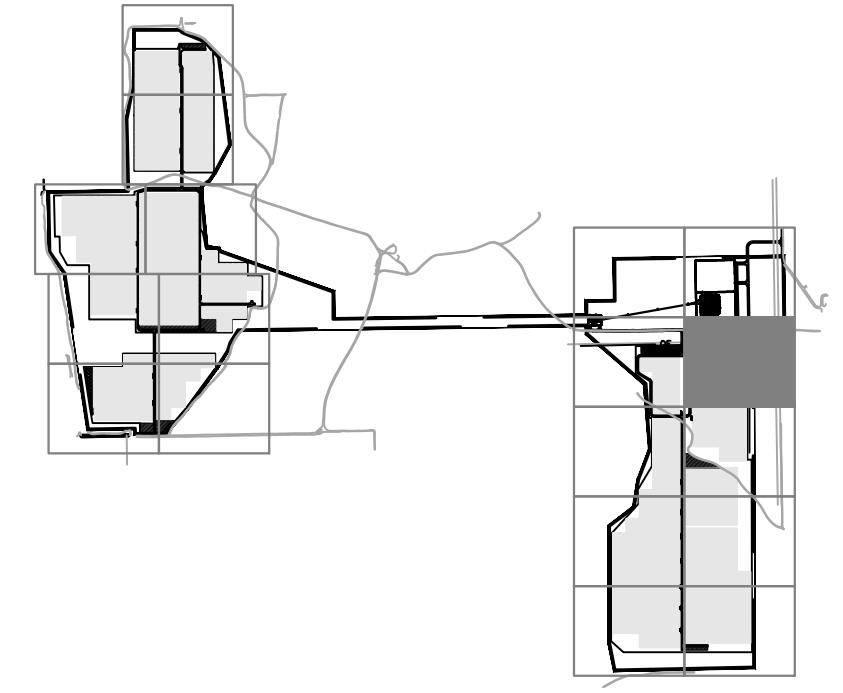
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XREFS: x096495003t0_c0_EC_x096495003vf_c040_wseo_overlay_boundary_180712_x096495003t0_wseo_ribose
OF AND IMPROPER RELIANCE ON THIS DOCUMENT WITHOUT WRITTEN AUTHORIZATION AND APPROVAL BY KIMLEY-HORN AND ASSOCIATES, INC. SHALL BE WITHOUT LIABILITY TO KIMLEY-HORN AND ASSOCIATES, INC.



MATCHLINE- SEE SHEET 216

GRADING AND EROSION CONTROL PLAN-908 PLAN SUBMITTAL

MATCHLINE- SEE SHEET 213



KEY MAP

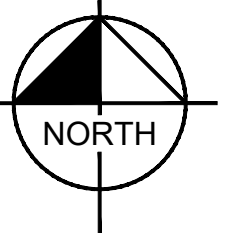
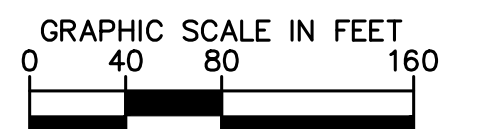
- LEGEND**
- PROPERTY LINE
 - LIMITS OF CONSTRUCTION
 - X PERMANENT FENCE
 - SF SILT FENCE
 - STRAW BALES
 - DRAINAGE SWALE/DIKE CHECK DAM
 - STABILIZED STAGING AREA
 - CONCRETE WASHOUT
 - VEHICLE TRACKING CONTROL
 - CULVERT INLET PROTECTION
 - SOIL STOCKPILE
 - TEMPORARY SEDIMENT BASIN
 - FLOW ARROW
 - PERMANENT SEEDING
 - EXISTING MINOR CONTOUR
 - EXISTING MAJOR CONTOUR
 - PROPOSED MINOR CONTOUR
 - PROPOSED MAJOR CONTOUR
 - 5496 ROADSIDE SWALE

LIMITS OF CONSTRUCTION

- ON-SITE IMPROVEMENTS = ±549 ACRES
- OFF-SITE IMPROVEMENTS = ±0 ACRES
- TOTAL = ±549 ACRES

NOTES

1. TEMPORARY STABILIZATION (TS) SHALL BE IMPLEMENTED WITHIN THE DISTURBED PORTIONS OF THE PROJECT SITE NO LATER THAN 14 DAYS FOLLOWING THE CEASE OF CONSTRUCTION ACTIVITIES WITHIN THE DISTURBED AREAS.
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3. THIS PLAN SHOWS BOTH INITIAL AND FINAL BMP. REFERENCE SHEET 201 FOR PHASING AND SEQUENCING PLAN.
4. CONTRACTOR SHALL MAINTAIN STABILIZED STAGING AREA (SSA), VEHICLE TRACKING CONTROL (VTC), AND CONCRETE WASHOUT AREA (CWA) AT THE CONSTRUCTION ENTRANCE AT ALL TIMES. CONTRACTOR SHALL UPDATE THE EROSION CONTROL PLAN IN THE FIELD TO INDICATE THE LOCATION OF THE SSA, VTC, AND CWA BMP'S AS EXCAVATION SEQUENCING DICTATES.
5. CHECK DAMS TO BE SPACED ALONG DRAINAGE SWALES PER UDFCD DETAILS. SCL MAY BE USED IN PLACE OF RIP RAP.
6. FOR GRADING OF CHECK DAMS AND CHANNELS, SEE SHEETS 127 TO 144.

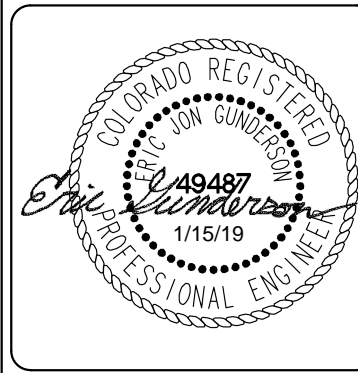


PALMER SOLAR
GRADING AND EROSION
CONTROL PLAN
EL PASO COUNTY, CO

Kimley-Horn

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PROJECT NO. 096495003		
DWG. NAME 096495003_EC		



GRADING AND EROSION CONTROL PLAN-908 PLAN SUBMITTAL



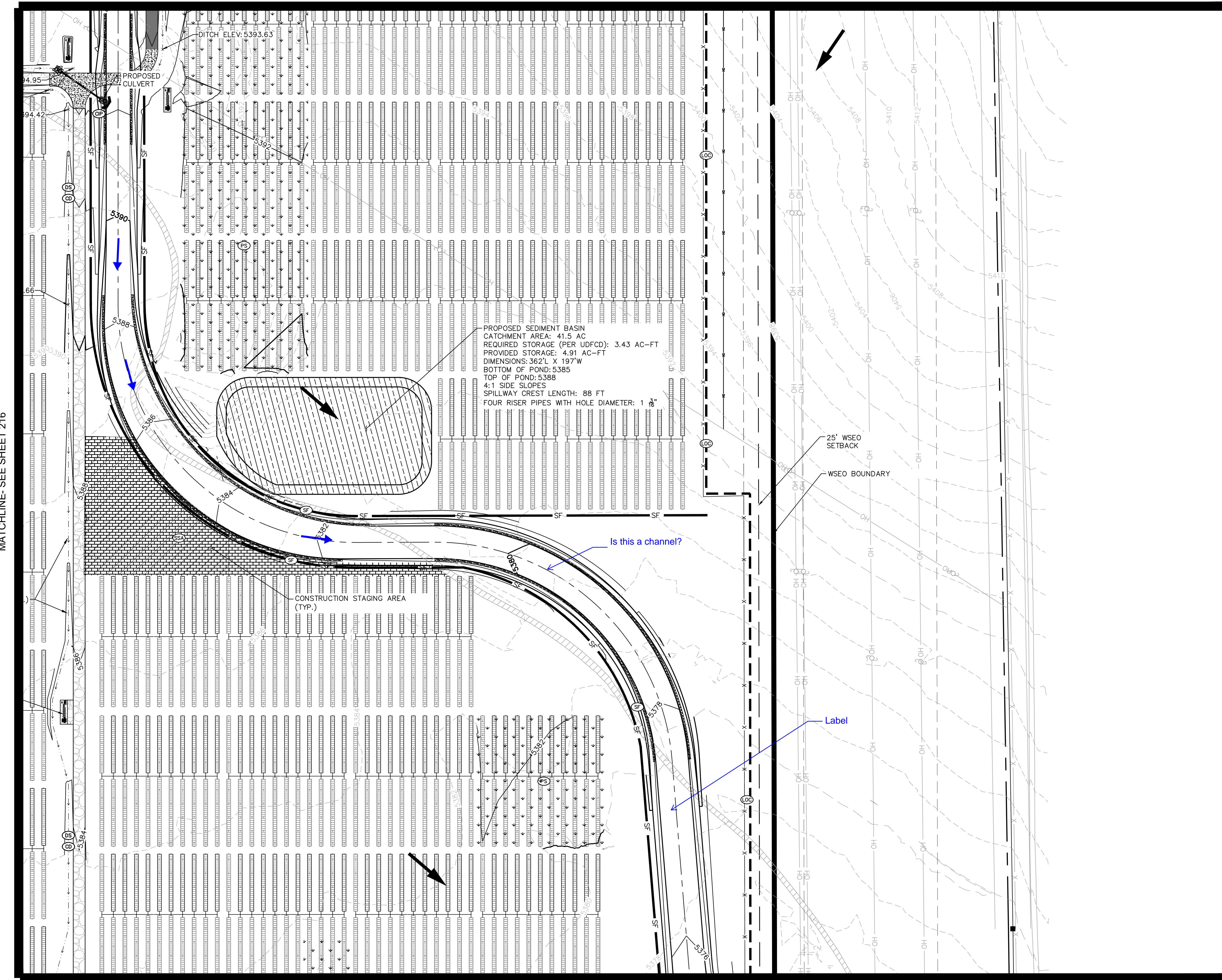
MATCHLINE- SEE SHEET 214

MATCHLINE- SEE SHEET 217

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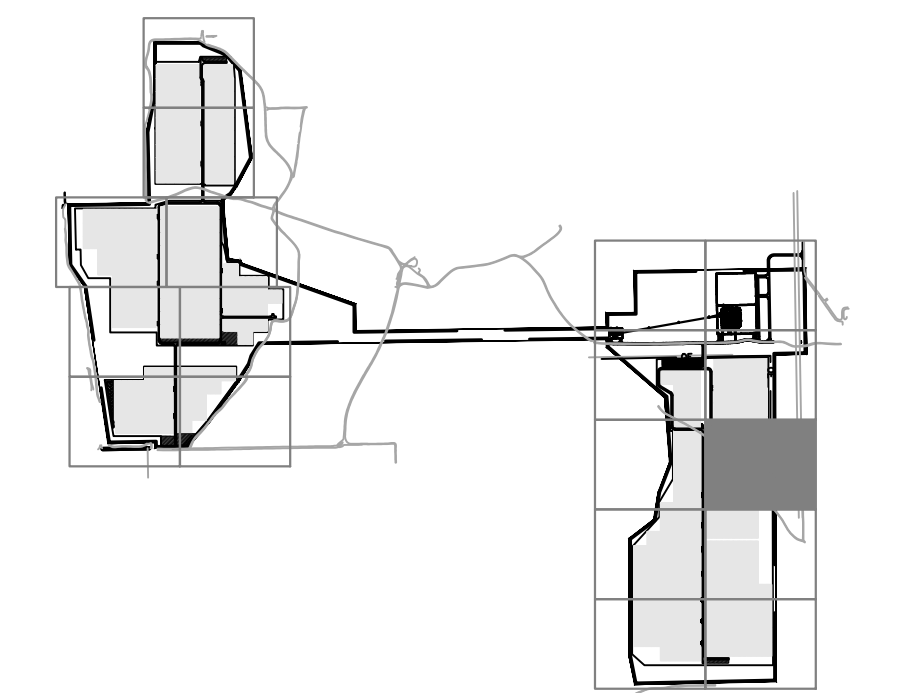


MATCHLINE- SEE SHEET 215



MATCHLINE- SEE SHEET 216

MATCHLINE- SEE SHEET 219



LEGEND

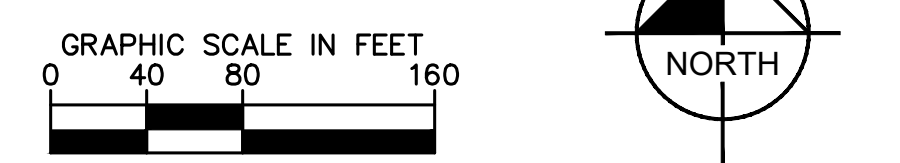
	PROPERTY LINE
	LIMITS OF CONSTRUCTION
	PERMANENT FENCE
	SILT FENCE
	STRAW BALES
	DRAINAGE SWALE/DIKE
	CHECK DAM
	STABILIZED STAGING AREA
	CONCRETE WASHOUT
	VEHICLE TRACKING CONTROL
	CULVERT INLET PROTECTION
	SOIL STOCKPILE
	TEMPORARY SEDIMENT BASIN
	FLOW ARROW
	PERMANENT SEEDING
	EXISTING MINOR CONTOUR
	EXISTING MAJOR CONTOUR
	PROPOSED MINOR CONTOUR
	PROPOSED MAJOR CONTOUR
	ROADSIDE SWALE

LIMITS OF CONSTRUCTION

ONSITE IMPROVEMENTS	= ±549 ACRES
OFFSITE IMPROVEMENTS	= ±0 ACRES
TOTAL	±549 ACRES

NOTES

- TEMPORARY STABILIZATION (TS) SHALL BE IMPLEMENTED WITHIN THE DISTURBED PORTIONS OF THE PROJECT SITE NO LATER THAN 14 DAYS FOLLOWING THE CEASE OF CONSTRUCTION ACTIVITIES WITHIN THE DISTURBED AREAS.
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- FOR GRADING OF CHECK DAMS AND CHANNELS, SEE SHEETS 127 TO 144.



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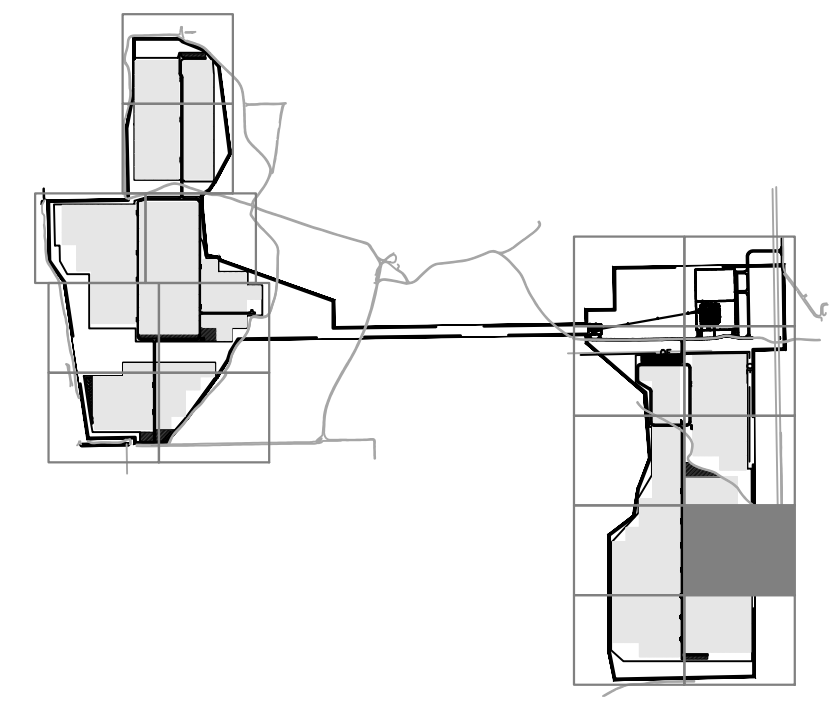
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DATE: DECEMBER 20, 2018		SHEET NO. 217
PROJECT NO. 096495003		
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GRADING AND EROSION CONTROL PLAN-908 PLAN SUBMITTAL



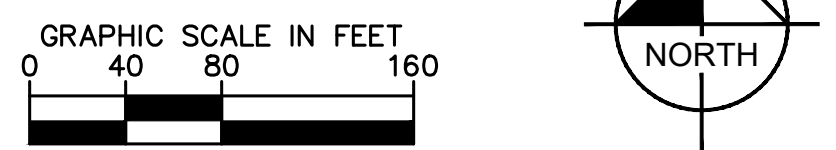
LEGEND

	PROPERTY LINE
	LIMITS OF CONSTRUCTION
	PERMANENT FENCE
	SILT FENCE
	STRAW BALES
	DRAINAGE SWALE/DIKE
	CHECK DAM
	STABILIZED STAGING AREA
	CONCRETE WASHOUT
	VEHICLE TRACKING CONTROL
	CULVERT INLET PROTECTION
	SOIL STOCKPILE
	TEMPORARY SEDIMENT BASIN
	FLOW ARROW
	PERMANENT SEEDING
	EXISTING MINOR CONTOUR
	EXISTING MAJOR CONTOUR
	PROPOSED MINOR CONTOUR
	PROPOSED MAJOR CONTOUR
	ROADSIDE SWALE

LIMITS OF CONSTRUCTION

ON-SITE IMPROVEMENTS	= ±549 ACRES
OFF-SITE IMPROVEMENTS	= ±0 ACRES
TOTAL	= ±549 ACRES

- NOTES**
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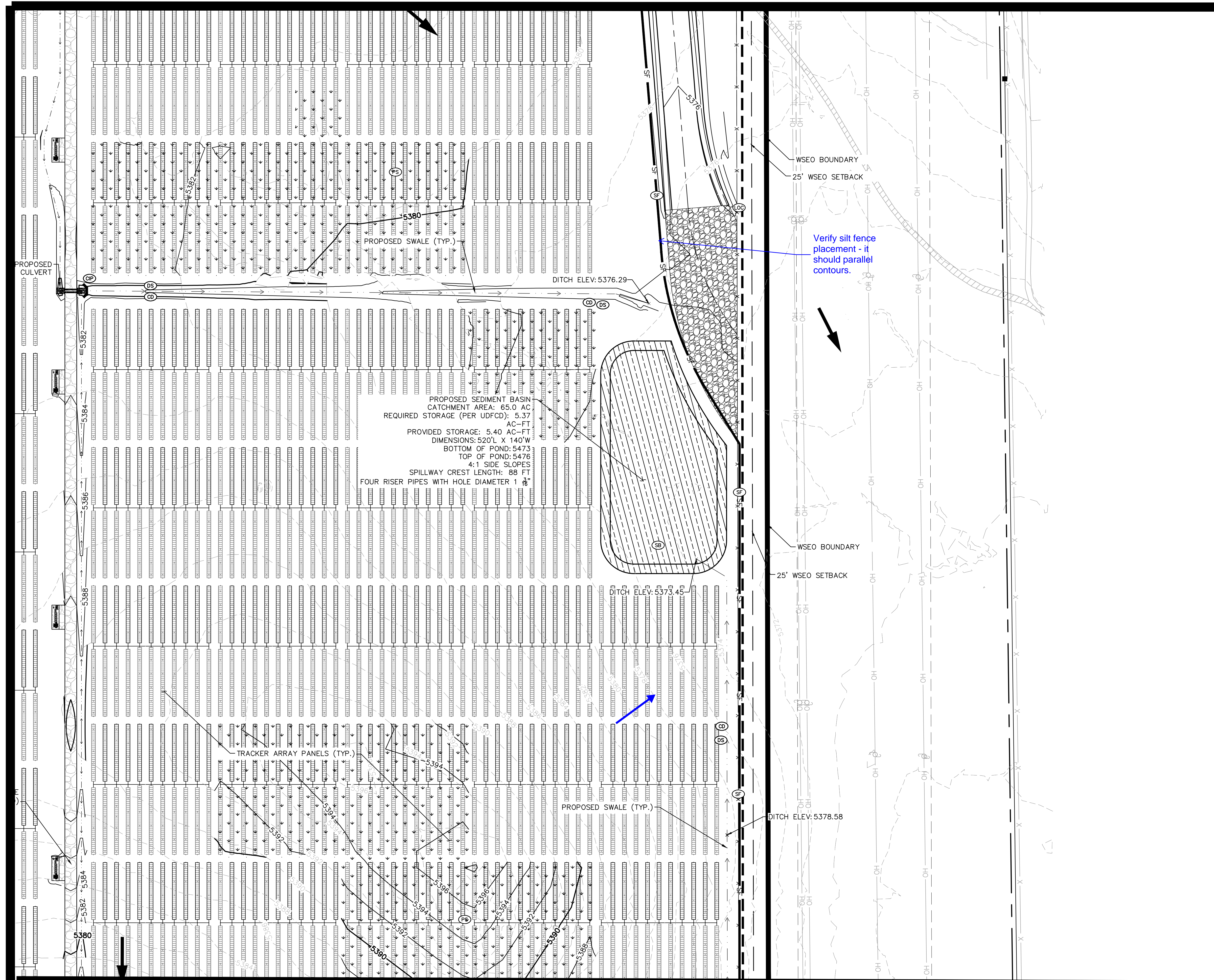


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SHEET NO. 219		

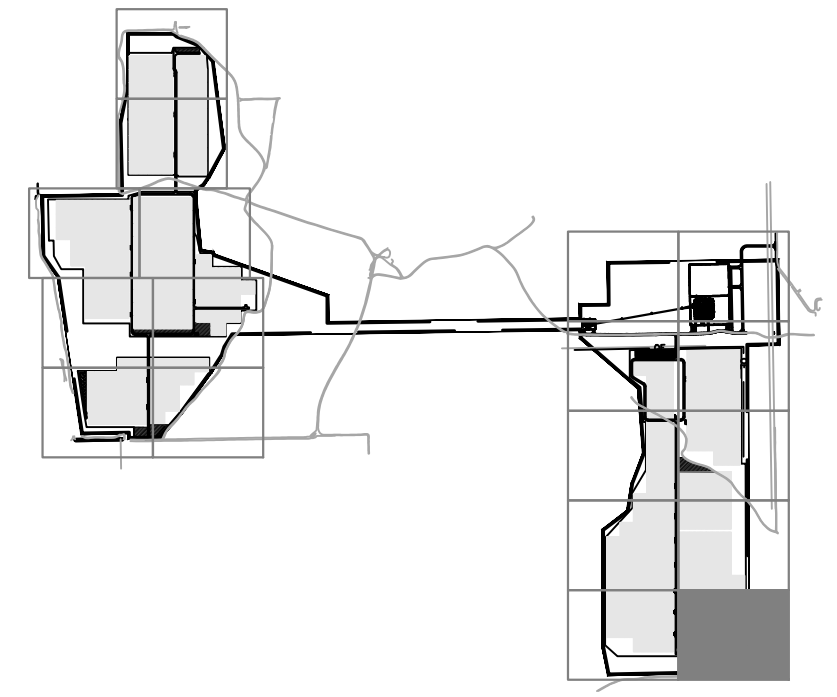


MATCHLINE- SEE SHEET 218

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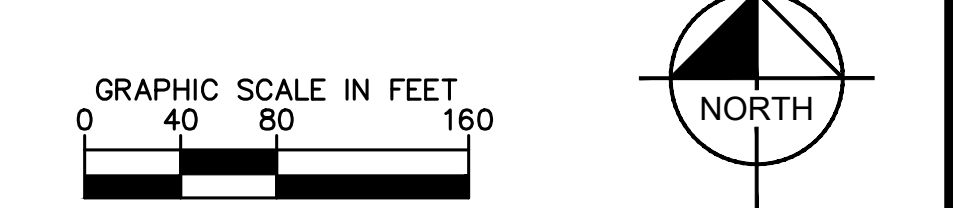
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	LIMITS OF CONSTRUCTION
	PERMANENT FENCE
	SILT FENCE
	STRAW BALES
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	CHECK DAM
	SSA STABILIZED STAGING AREA
	CONCRETE WASHOUT
	VTC VEHICLE TRACKING CONTROL
	CULVERT INLET PROTECTION
	SP SOIL STOCKPILE
	SB TEMPORARY SEDIMENT BASIN
	FLOW ARROW
	PERMANENT SEEDING
	EXISTING MINOR CONTOUR
	EXISTING MAJOR CONTOUR
	PROPOSED MINOR CONTOUR
	PROPOSED MAJOR CONTOUR
	ROADSIDE SWALE

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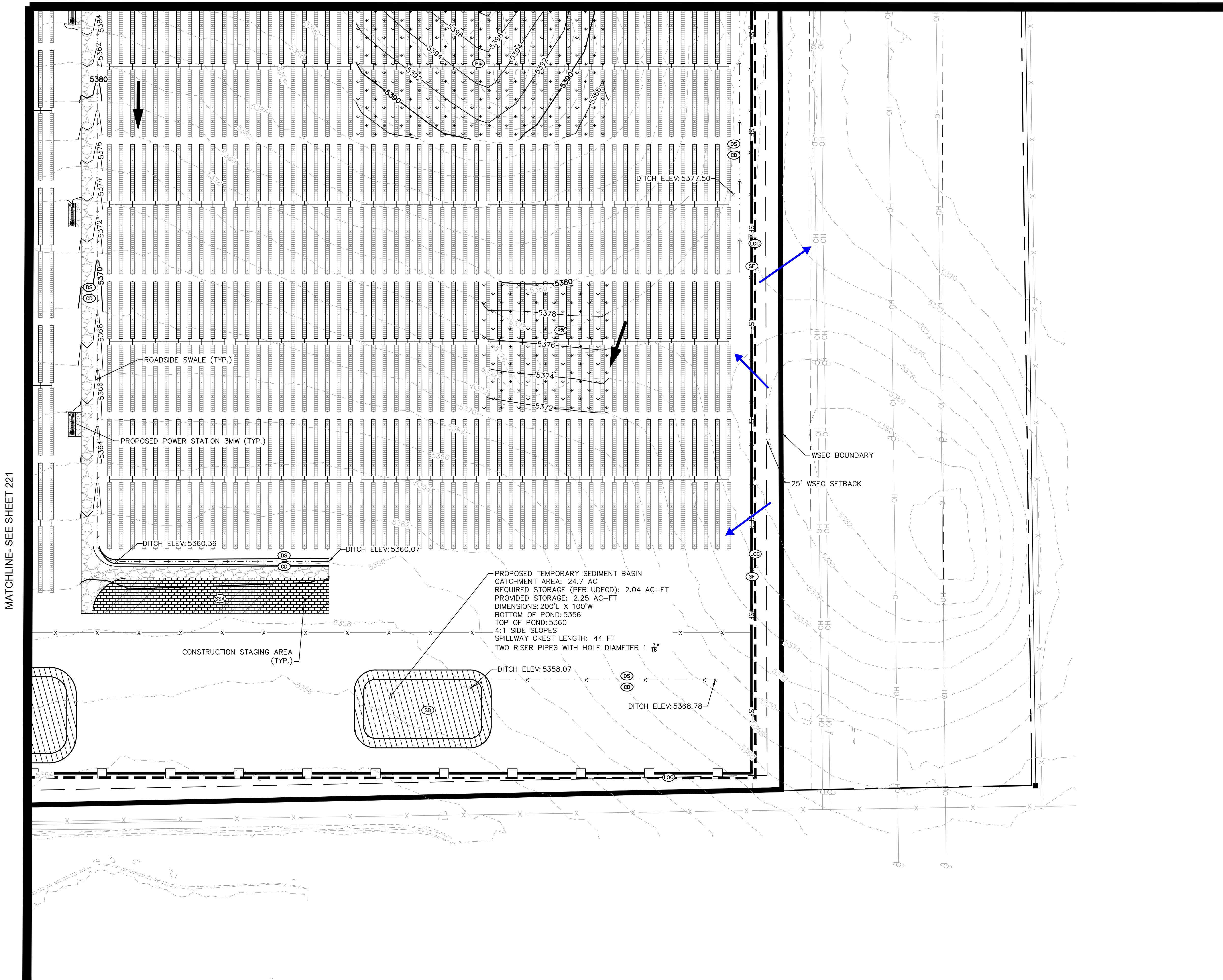


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PROJECT NO. 096495003		
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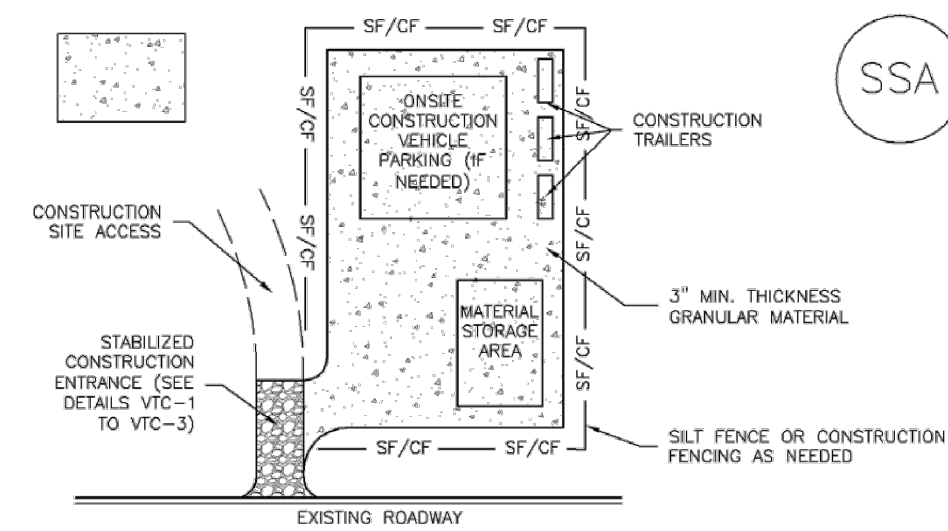
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GRADING AND EROSION CONTROL PLAN-908 PLAN SUBMITTAL

Stabilized Staging Area (SSA) SM-6



SSA-1. STABILIZED STAGING AREA

STABILIZED STAGING AREA INSTALLATION NOTES

- SEE PLAN VIEW FOR:
 - LOCATION OF STAGING AREA(S).
 - CONTRACTOR MAY ADJUST LOCATION AND SIZE OF STAGING AREA WITH APPROVAL FROM THE LOCAL JURISDICTION.
- STABILIZED STAGING AREA SHOULD BE APPROPRIATE FOR THE NEEDS OF THE SITE. OVERSIZING RESULTS IN A LARGER AREA TO STABILIZE FOLLOWING CONSTRUCTION.
- STAGING AREA SHALL BE STABILIZED PRIOR TO OTHER OPERATIONS ON THE SITE.
- THE STABILIZED STAGING AREA SHALL CONSIST OF A MINIMUM 3" THICK GRANULAR MATERIAL.
- UNLESS OTHERWISE SPECIFIED BY LOCAL JURISDICTION, ROCK SHALL CONSIST OF DOT SECT. #703, ASPHALT #3 COARSE AGGREGATE OR 6" (MINUS) ROCK.
- ADDITIONAL PERIMETER BMPs MAY BE REQUIRED INCLUDING BUT NOT LIMITED TO SILT FENCE AND CONSTRUCTION FENCING.

STABILIZED STAGING AREA MAINTENANCE NOTES

- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
- ROCK SHALL BE REAPPLIED OR REGRADED AS NECESSARY IF RUTTING OCCURS OR UNDERLYING SUBGRADE BECOMES EXPOSED.

November 2010 Urban Drainage and Flood Control District SSA-3
Urban Storm Drainage Criteria Manual Volume 3

SM-6 Stabilized Staging Area (SSA)

STABILIZED STAGING AREA MAINTENANCE NOTES

- STABILIZED STAGING AREA SHALL BE ENLARGED IF NECESSARY TO CONTAIN PARKING, STORAGE, AND UNLOADING/LOADING OPERATIONS.
- THE STABILIZED STAGING AREA SHALL BE REMOVED AT THE END OF CONSTRUCTION THE GRANULAR MATERIAL SHALL BE REMOVED OR, IF APPROVED BY THE LOCAL JURISDICTION, USED ON SITE, AND THE AREA COVERED WITH TOPSOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY LOCAL JURISDICTION.

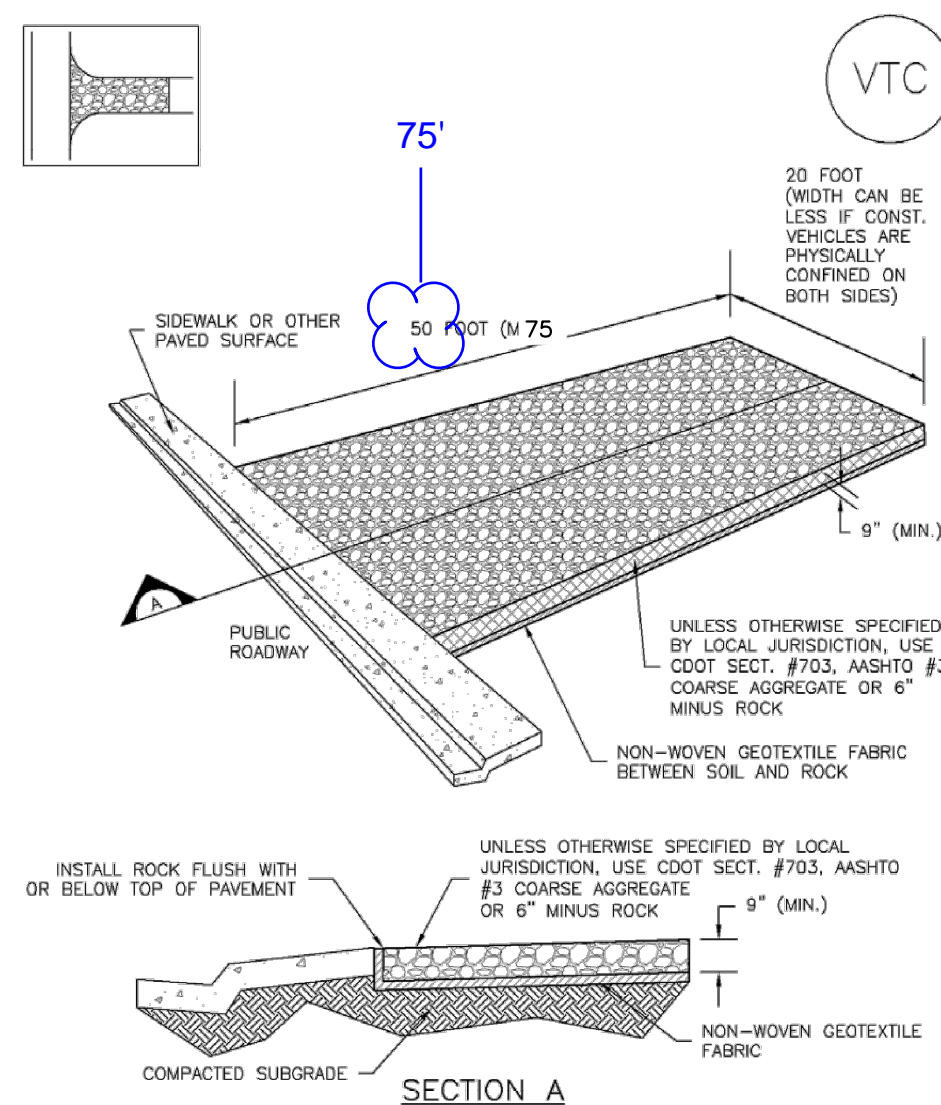
NOTE: MANY MUNICIPALITIES PROHIBIT THE USE OF RECYCLED CONCRETE AS GRANULAR MATERIAL FOR STABILIZED STAGING AREAS DUE TO DIFFICULTIES WITH RE-ESTABLISHMENT OF VEGETATION IN AREAS WHERE RECYCLED CONCRETE WAS PLACED.

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UFGCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

(DETAILS ADAPTED FROM DOUGLAS COUNTY, COLORADO, NOT AVAILABLE IN AUTOCAD)

SSA-4 Urban Drainage and Flood Control District November 2010
Urban Storm Drainage Criteria Manual Volume 3

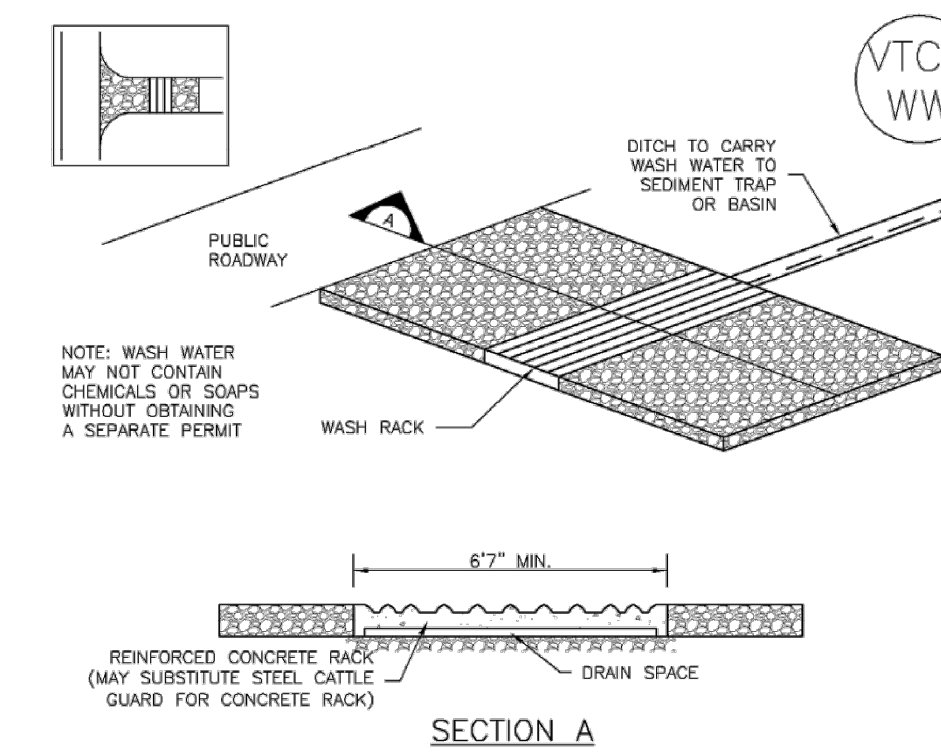
Vehicle Tracking Control (VTC) SM-4



VTC-1. AGGREGATE VEHICLE TRACKING CONTROL

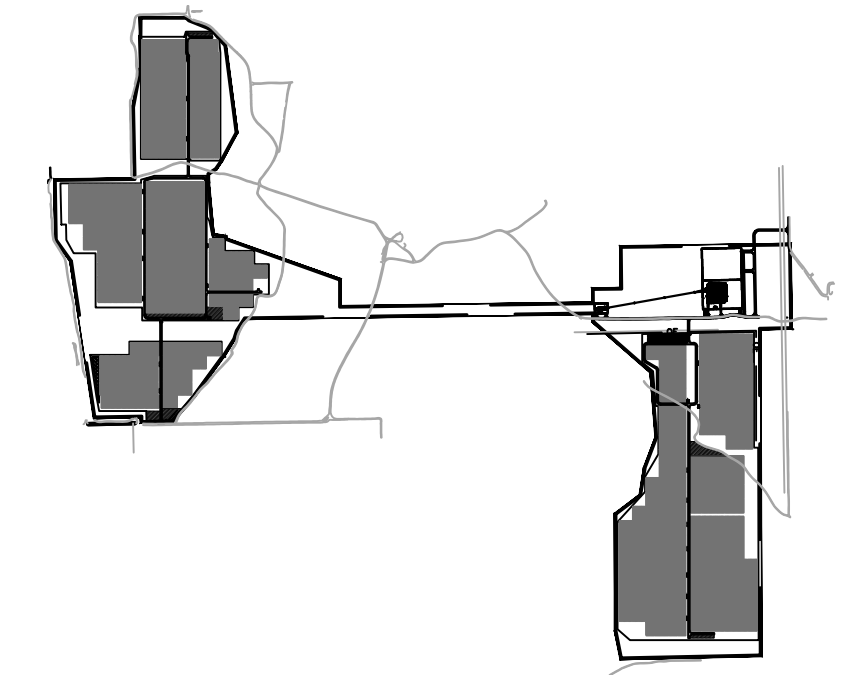
November 2010 Urban Drainage and Flood Control District VTC-3
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SM-4 Vehicle Tracking Control (VTC)



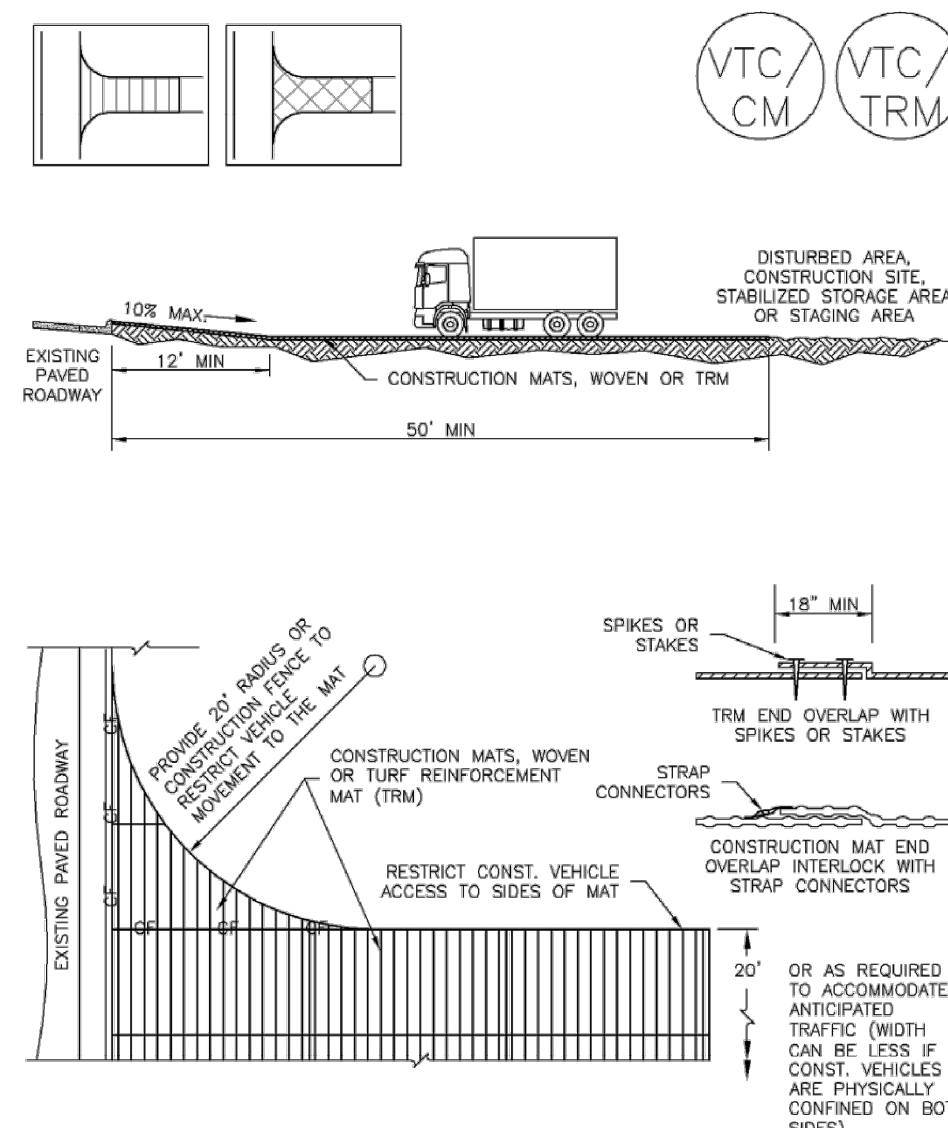
VTC-2. AGGREGATE VEHICLE TRACKING CONTROL WITH WASH RACK

VTC-4 Urban Drainage and Flood Control District November 2010
Urban Storm Drainage Criteria Manual Volume 3



KEY MAP NOT TO SCALE

Vehicle Tracking Control (VTC) SM-4



VTC-3. VEHICLE TRACKING CONTROL W/ CONSTRUCTION MAT OR TURF REINFORCEMENT MAT (TRM)

November 2010 Urban Drainage and Flood Control District VTC-5
Urban Storm Drainage Criteria Manual Volume 3

SM-4 Vehicle Tracking Control (VTC)

STABILIZED CONSTRUCTION ENTRANCE/EXIT INSTALLATION NOTES

- SEE PLAN VIEW FOR:
 - LOCATION OF CONSTRUCTION ENTRANCE(S)/EXIT(S).
 - TYPE OF CONSTRUCTION ENTRANCE(S)/EXIT(S) (WITH/WITHOUT WHEEL WASH, CONSTRUCTION MAT OR TRM).
- CONSTRUCTION MAT OR TRM STABILIZED CONSTRUCTION ENTRANCES ARE ONLY TO BE USED ON SHORT DURATION PROJECTS (TYPICALLY RANGING FROM A WEEK TO A MONTH) WHERE THERE WILL BE LIMITED VEHICULAR ACCESS.
- A STABILIZED CONSTRUCTION ENTRANCE/EXIT SHALL BE LOCATED AT ALL ACCESS POINTS WHERE VEHICLES ACCESS THE CONSTRUCTION SITE FROM PAVED, RIGHT-OF-WAYS.
- STABILIZED CONSTRUCTION ENTRANCE/EXIT SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.
- A NON-WOVEN GEOTEXTILE FABRIC SHALL BE PLACED UNDER THE STABILIZED CONSTRUCTION ENTRANCE/EXIT PRIOR TO THE PLACEMENT OF ROCK.
- UNLESS OTHERWISE SPECIFIED BY LOCAL JURISDICTION, ROCK SHALL CONSIST OF DOT SECT. #703, ASPHALT #3 COARSE AGGREGATE OR 6" (MINUS) ROCK.

STABILIZED CONSTRUCTION ENTRANCE/EXIT MAINTENANCE NOTES

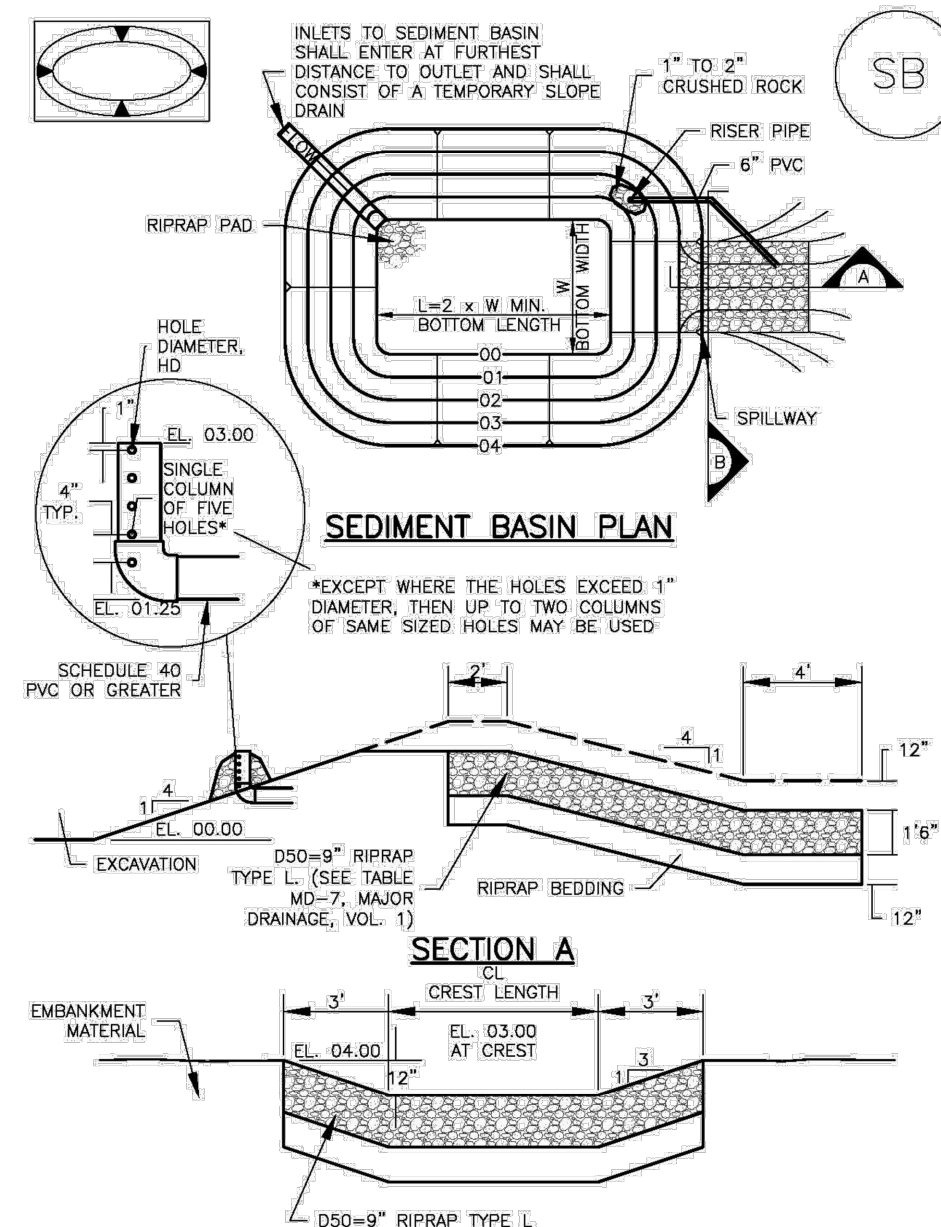
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- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
- ROCK SHALL BE REAPPLIED OR REGRADED AS NECESSARY TO THE STABILIZED CONSTRUCTION ENTRANCE/EXIT TO MAINTAIN A CONSISTENT DEPTH.
- SEDIMENT TRACKED ONTO PAVED ROADS IS TO BE REMOVED THROUGHOUT THE DAY AND AT THE END OF THE DAY BY SHOVELING OR SWEEPING. SEDIMENT MAY NOT BE WASHED DOWN STORM SEWER DRAINS.

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UFGCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

(DETAILS ADAPTED FROM CITY OF BROOMFIELD, COLORADO, NOT AVAILABLE IN AUTOCAD)

VTC-6 Urban Drainage and Flood Control District November 2010
Urban Storm Drainage Criteria Manual Volume 3

Sediment Basin (SB) SC-7



August 2013 Urban Drainage and Flood Control District SB-5
Urban Storm Drainage Criteria Manual Volume 3

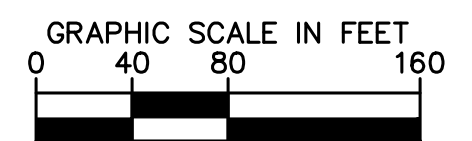
SC-7 Sediment Basin (SB)

Upstream Drainage Area (rounded to nearest acre), (ac)	Basin Bottom Width (W), (ft)	Spillway Crest Length (CL), (ft)	Hole Diameter (HD), (in)
1	12 1/2	2	3/4
2	21	3	1 1/8
3	28	5	1 1/2
4	33 1/2	6	1 3/4
5	38 1/2	8	1 7/8
6	43	9	1 7/8
7	47 1/2	11	1 7/8
8	51	12	1 7/8
9	55	13	1 7/8
10	58 1/2	15	1 7/8
11	61	16	1 7/8
12	64	18	1 7/8
13	67 1/2	19	1 3/4
14	70 1/2	21	1 3/4
15	73 1/2	22	1 3/4

SEDIMENT BASIN INSTALLATION NOTES

- SEE PLAN VIEW FOR:
 - LOCATION OF SEDIMENT BASIN.
 - TYPE OF BASIN (STANDARD BASIN OR NONSTANDARD BASIN).
 - FOR STANDARD BASIN, BOTTOM WIDTH W, CREST LENGTH CL, AND HOLE DIAMETER, HD.
 - FOR NONSTANDARD BASIN, SEE CONSTRUCTION DRAWINGS FOR DESIGN OF BASIN INCLUDING RISER HEIGHT H, NUMBER OF COLUMNS N, HOLE DIAMETER HD AND PIPE DIAMETER D.
- FOR STANDARD BASIN, BOTTOM DIMENSION MAY BE MODIFIED AS LONG AS BOTTOM AREA IS NOT REDUCED.
- SEDIMENT BASINS SHALL BE INSTALLED PRIOR TO ANY OTHER LAND-DISTURBING ACTIVITY THAT RELIES ON DR BASINS AS A STORMWATER CONTROL.
- EMBANKMENT MATERIAL SHALL CONSIST OF SOIL FREE OF DEBRIS, ORGANIC MATERIAL, AND ROCKS OR CONCRETE GREATER THAN 3 INCHES AND SHALL HAVE A MINIMUM OF 15 PERCENT BY WEIGHT PASSING THE NO. 200 SIEVE.
- EMBANKMENT MATERIAL SHALL BE COMPACTED TO AT LEAST 95 PERCENT OF MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D698.
- PIPE SCH 40 OR GREATER SHALL BE USED.
- THE DETAILS SHOWN ON THESE SHEETS PERTAIN TO STANDARD SEDIMENT BASIN(S) 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.

SB-6 Urban Drainage and Flood Control District August 2013
Urban Storm Drainage Criteria Manual Volume 3



PALMER SOLAR GESC DETAILS

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DECEMBER 20, 2018		
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SHEET NO.		
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FOR ADDITIONAL INFORMATION AND ADAPTATION BY KIMLEY-HORN AND ASSOCIATES, INC. SHALL BE WITHOUT LIABILITY TO KIMLEY-HORN AND ASSOCIATES, INC.

GRADING AND EROSION CONTROL PLAN-90% PLAN SUBMITTAL

Temporary and Permanent Seeding (TS/PS) EC-2

Seeding dates for the highest success probability of perennial species along the Front Range are generally in the spring from April through early May and in the fall after the first of September until the ground freezes. If the area is irrigated, seeding may occur in summer months, as well. See Table TS/PS-3 for appropriate seeding dates.

Table TS/PS-1. Minimum Drill Seeding Rates for Various Temporary Annual Grasses

Species* (Common name)	Growth Season*	Pounds of Pure Live Seed (PLS)/acre	Planting Depth (inches)
1. Oats	Cool	35 - 50	1 - 2
2. Spring wheat	Cool	25 - 35	1 - 2
3. Spring barley	Cool	25 - 35	1 - 2
4. Annual ryegrass	Cool	10 - 15	½
5. Millet	Warm	3 - 15	½ - ¾
6. Sudangrass	Warm	5 - 10	½ - ¾
7. Sorghum	Warm	5 - 10	½ - ¾
8. Winter wheat	Cool	20 - 35	1 - 2
9. Winter barley	Cool	20 - 35	1 - 2
10. Winter rye	Cool	20 - 35	1 - 2
11. Triticale	Cool	25 - 40	1 - 2

* Successful seeding of annual grass resulting in adequate plant growth will usually produce enough dead-plant residue to provide protection from wind and water erosion for an additional year. This assumes that the cover is not disturbed or mowed closer than 8 inches.

Hydraulic seeding may be substituted for drilling only where slopes are steeper than 3:1 or where access limitations exist. When hydraulic seeding is used, hydraulic mulching should be applied as a separate operation, when practical, to prevent the seeds from being encapsulated in the mulch.

† See Table TS/PS-3 for seeding dates. Irrigation, if consistently applied, may extend the use of cool season species during the summer months.

‡ Seeding rates should be doubled if seed is broadcast, or increased by 50 percent if done using a Brillion Drill or by hydraulic seeding.

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EC-2 Temporary and Permanent Seeding (TS/PS)

Table TS/PS-2. Minimum Drill Seeding Rates for Perennial Grasses

Common Name	Botanical Name	Growth Season*	Growth Form	Seeds/Pound	Pounds of PLS/acre
Alkali Soil Seed Mix					
Alkali sacaton	<i>Sporobolus airoides</i>	Cool	Bunch	1,750,000	0.25
Basin wildrye	<i>Elymus cinereus</i>	Cool	Bunch	165,000	2.5
Sodar streambank wheatgrass	<i>Agropyron riparium 'Sodar'</i>	Cool	Sod	170,000	2.5
Jose tall wheatgrass	<i>Agropyron elongatum 'Jose'</i>	Cool	Bunch	79,000	7.0
Arriba western wheatgrass	<i>Agropyron smithii 'Arriba'</i>	Cool	Sod	110,000	5.5
Total					17.75
Fertile Loamy Soil Seed Mix					
Ephraim crested wheatgrass	<i>Agropyron cristatum 'Ephraim'</i>	Cool	Sod	175,000	2.0
Dural hard fescue	<i>Festuca ovina 'Auriculata'</i>	Cool	Bunch	565,000	1.0
Lincoln smooth brome	<i>Bromus inermis leysii 'Lincoln'</i>	Cool	Sod	130,000	3.0
Sodar streambank wheatgrass	<i>Agropyron riparium 'Sodar'</i>	Cool	Sod	170,000	2.5
Arriba western wheatgrass	<i>Agropyron smithii 'Arriba'</i>	Cool	Sod	110,000	7.0
Total					15.5
High Water Table Soil Seed Mix					
Meadow foxtail	<i>Alopecurus pratensis</i>	Cool	Sod	900,000	0.5
Reed canarygrass	<i>Agrostis alba</i>	Warm	Open sod	5,000,000	0.25
Lincoln smooth brome	<i>Bromus inermis leysii 'Lincoln'</i>	Cool	Sod	130,000	3.0
Pathfinder switchgrass	<i>Panicum virgatum 'Pathfinder'</i>	Warm	Sod	389,000	1.0
Alkar tall wheatgrass	<i>Agropyron elongatum 'Alkar'</i>	Cool	Bunch	79,000	5.5
Total					10.75
Transition Turf Seed Mix*					
Ruebens Canadian bluegrass	<i>Poa compressa 'Ruebens'</i>	Cool	Sod	2,500,000	0.5
Dural hard fescue	<i>Festuca ovina 'Auriculata'</i>	Cool	Bunch	565,000	1.0
Citation perennial ryegrass	<i>Lolium perenne 'Citation'</i>	Cool	Sod	247,000	3.0
Lincoln smooth brome	<i>Bromus inermis leysii 'Lincoln'</i>	Cool	Sod	130,000	3.0
Total					7.5

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Temporary and Permanent Seeding (TS/PS) EC-2

Table TS/PS-2. Minimum Drill Seeding Rates for Perennial Grasses (cont.)

Common Name	Botanical Name	Growth Season*	Growth Form	Seeds/Pound	Pounds of PLS/acre
Sandy Soil Seed Mix					
Blue grama	<i>Bouteloua gracilis</i>	Warm	Sod-forming bunchgrass	825,000	0.5
Camper little bluestem	<i>Schizanthus scoparium 'Camper'</i>	Warm	Bunch	240,000	1.0
Prairie sandreed	<i>Calamagrostis longifolia</i>	Warm	Open sod	274,000	1.0
Sand dropseed	<i>Sporobolus cryptandrus</i>	Cool	Bunch	5,298,000	0.25
Vaughn sidecoats grama	<i>Bouteloua curtipendula 'Vaughn'</i>	Warm	Sod	191,000	2.0
Arriba western wheatgrass	<i>Agropyron smithii 'Arriba'</i>	Cool	Sod	110,000	5.5
Total					10.25
Heavy Clay, Rocky Foothill Seed Mix					
Ephraim crested wheatgrass†	<i>Agropyron cristatum 'Ephraim'</i>	Cool	Sod	175,000	1.5
Oahe Intermediate wheatgrass	<i>Agropyron intermedium 'Oahe'</i>	Cool	Sod	115,000	5.5
Vaughn sidecoats grama†	<i>Bouteloua curtipendula 'Vaughn'</i>	Warm	Sod	191,000	2.0
Lincoln smooth brome	<i>Bromus inermis leysii 'Lincoln'</i>	Cool	Sod	130,000	3.0
Arriba western wheatgrass	<i>Agropyron smithii 'Arriba'</i>	Cool	Sod	110,000	5.5
Total					17.5

* All of the above seeding mixes and rates are based on drill seeding followed by crimped straw mulch. These rates should be doubled if seed is broadcast and should be increased by 50 percent if the seeding is done using a Brillion Drill or if applied through hydraulic seeding. Hydraulic seeding may be substituted for drilling only where slopes are steeper than 3:1. If hydraulic seeding is used, hydraulic mulching should be done as a separate operation.

† See Table TS/PS-3 for seeding dates.

‡ If site is to be irrigated, the transition turf seed rates should be doubled.

§ Crested wheatgrass should not be used on slopes steeper than 6H to 1V.

¶ Can substitute 0.5 lbs PLS of blue grama for the 2.0 lbs PLS of Vaughn sidecoats grama.

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EC-2 Temporary and Permanent Seeding (TS/PS)

Table TS/PS-3. Seeding Dates for Annual and Perennial Grasses

Seeding Dates	Annual Grasses (Numbers in table reference species in Table TS/PS-1)		Perennial Grasses	
	Warm	Cool	Warm	Cool
January 1-March 15			✓	✓
March 16-April 30	4	1,2,3	✓	✓
May 1-May 15			✓	
May 16-June 30	4,5,6,7			
July 1-July 15	5,6,7			
July 16-August 31				
September 1-September 30		8,9,10,11		
October 1-December 31			✓	✓

Mulch
Cover seeded areas with mulch or an appropriate rolled erosion control product to promote establishment of vegetation. Anchor mulch by crimping, netting or use of a non-toxic tackifier. See the Mulching BMP Fact Sheet for additional guidance.

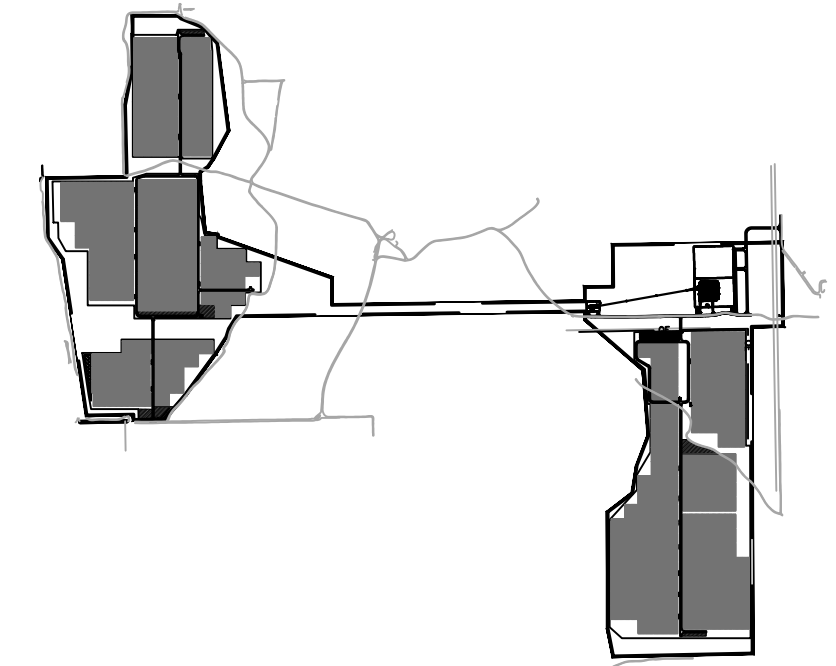
Maintenance and Removal
Monitor and observe seeded areas to identify areas of poor growth or areas that fail to germinate. Reseed and mulch these areas, as needed.

An area that has been permanently seeded should have a good stand of vegetation within one growing season if irrigated and within three growing seasons without irrigation in Colorado. Reseed portions of the site that fail to germinate or remain bare after the first growing season.

Seeded areas may require irrigation, particularly during extended dry periods. Targeted weed control may also be necessary.

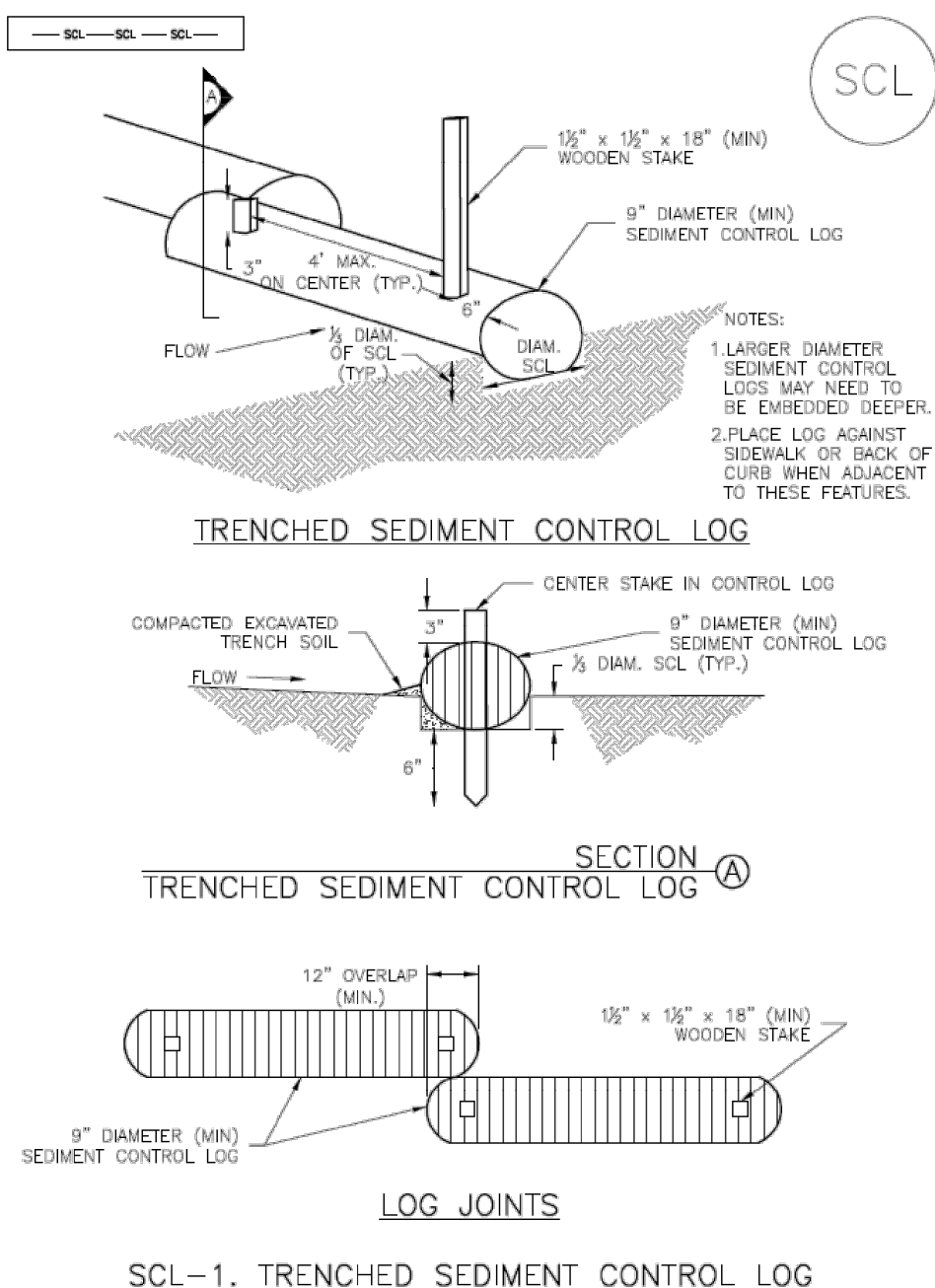
Protect seeded areas from construction equipment and vehicle access.

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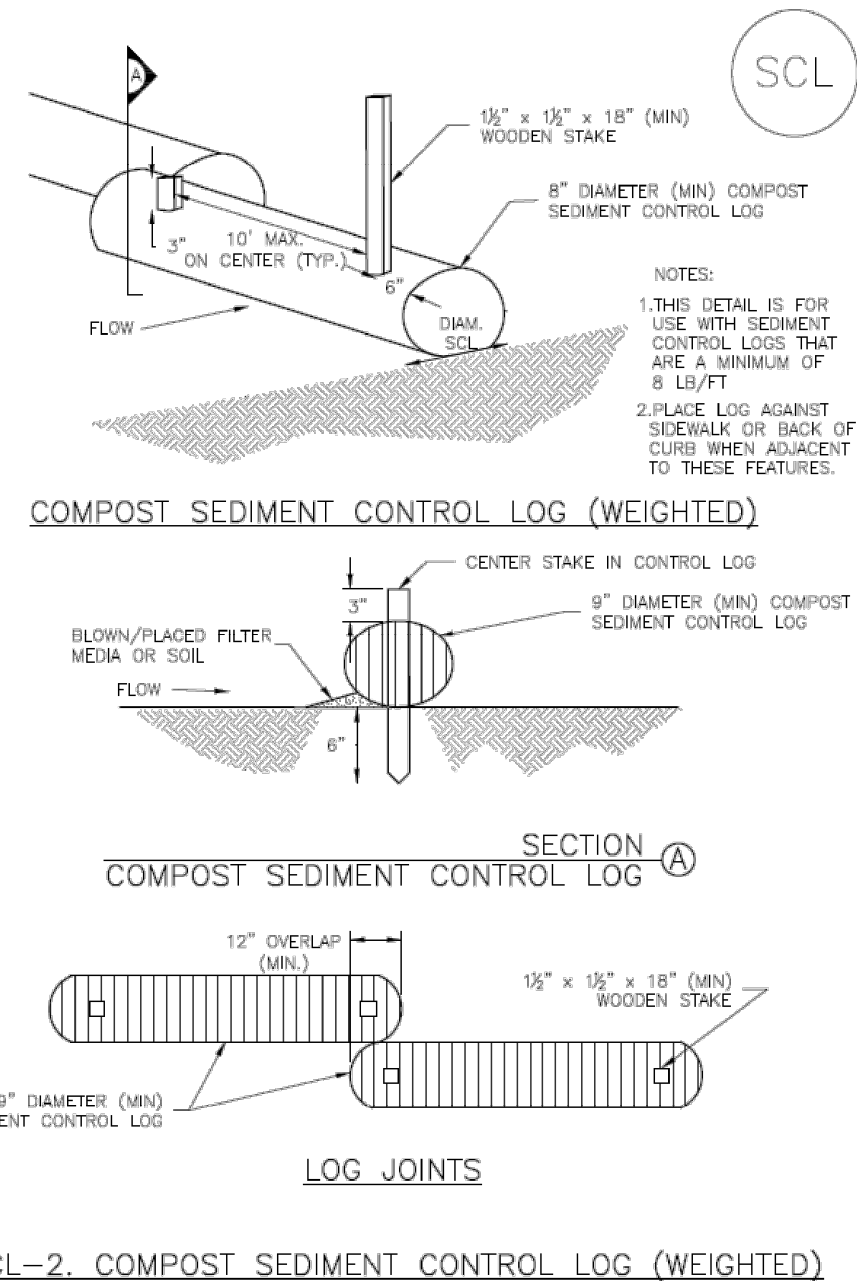
KEY MAP

Sediment Control Log (SCL) SC-2



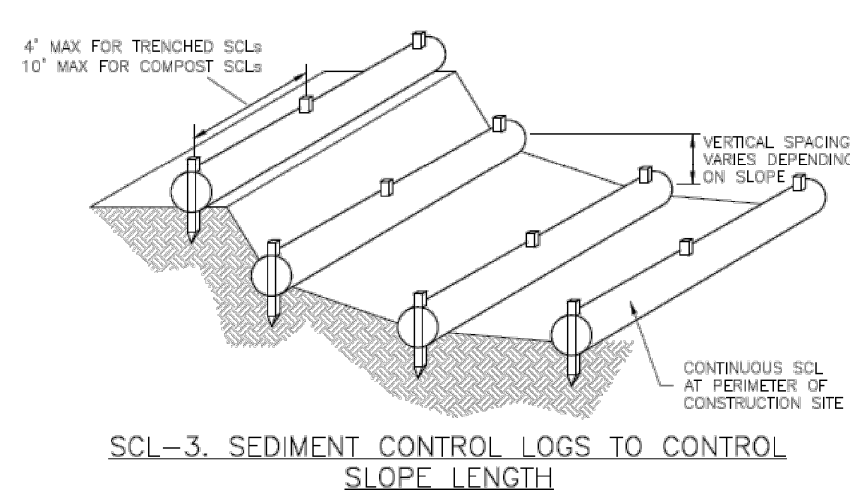
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SC-2 Sediment Control Log (SCL)



SCL-4 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 November 2015

Sediment Control Log (SCL) SC-2



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SC-2 Sediment Control Log (SCL)

SEDIMENT CONTROL LOG INSTALLATION NOTES

- SEE PLAN VIEW FOR LOCATION AND LENGTH OF SEDIMENT CONTROL LOGS.
- SEDIMENT CONTROL LOGS THAT ACT AS A PERIMETER CONTROL SHALL BE INSTALLED PRIOR TO ANY UPGRADE/LAND-DISTURBING ACTIVITIES.
- SEDIMENT CONTROL LOGS SHALL CONSIST OF STRAW, COMPOST, EXCELSIOR OR COCONUT FIBER, AND SHALL BE FREE OF ANY NOXIOUS WEED SEEDS OR DEFECTS INCLUDING RIPS, HOLES AND OBVIOUS WEAR.
- SEDIMENT CONTROL LOGS MAY BE USED AS SMALL CHECK DAMS IN DITCHES AND SWALES. HOWEVER, THEY SHOULD NOT BE USED IN PERENNIAL STREAMS.
- IT IS RECOMMENDED THAT SEDIMENT CONTROL LOGS BE TRENCHED INTO THE GROUND TO A DEPTH OF APPROXIMATELY 1/3 OF THE DIAMETER OF THE LOG. IF TRENCHING TO THIS DEPTH IS NOT FEASIBLE AND/OR DESIRABLE (SHORT TERM INSTALLATION WITH DESIRE NOT TO DAMAGE LANDSCAPE) A LESSER TRENCHING DEPTH MAY BE ACCEPTABLE WITH MORE ROBUST STAKING. COMPOST LOGS THAT ARE 8 LB/FT DO NOT NEED TO BE TRENCHED.
- THE UPHILL SIDE OF THE SEDIMENT CONTROL LOG SHALL BE BACKFILLED WITH SOIL OR FILTER MATERIAL THAT IS FREE OF ROCKS AND DEBRIS. THE SOIL SHALL BE TIGHTLY COMPACTED INTO THE SHAPE OF A RIGHT TRIANGLE USING A SHOVEL OR WEIGHTED LAWN ROLLER OR BLOWN IN PLACE.
- FOLLOW MANUFACTURERS' GUIDANCE FOR STAKING. IF MANUFACTURERS' INSTRUCTIONS DO NOT SPECIFY SPACING, STAKES SHALL BE PLACED ON 4' CENTERS AND EMBEDDED A MINIMUM OF 6" INTO THE GROUND. 3" OF THE STAKE SHALL PROTRUDE FROM THE TOP OF THE LOG. STAKES THAT ARE BROKEN PRIOR TO INSTALLATION SHALL BE REPLACED. COMPOST LOGS SHOULD BE STAKED 10' ON CENTER.

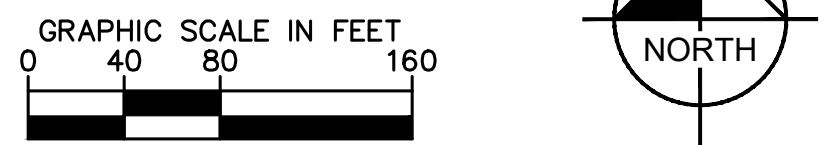
SEDIMENT CONTROL LOG MAINTENANCE NOTES

- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
- SEDIMENT ACCUMULATED UPSTREAM OF SEDIMENT CONTROL LOG SHALL BE REMOVED AS NEEDED TO MAINTAIN FUNCTIONALITY OF THE BMP. TYPICALLY WHEN DEPTH OF ACCUMULATED SEDIMENTS IS APPROXIMATELY 1/3 OF THE HEIGHT OF THE SEDIMENT CONTROL LOG.
- SEDIMENT CONTROL LOG SHALL BE REMOVED AT THE END OF CONSTRUCTION. COMPOST FROM COMPOST LOGS MAY BE LEFT IN PLACE AS LONG AS BAGS ARE REMOVED AND THE AREA SEEDS IF DISTURBED AREAS EXIST AFTER REMOVAL. THEY SHALL BE COVERED WITH TOP SOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE LOCAL JURISDICTION.

(DETAILS ADAPTED FROM TOWN OF PARKER, COLORADO, JEFFERSON COUNTY, COLORADO, DOUGLAS COUNTY, COLORADO, AND CITY OF ARIZONA, COLORADO. NOT AVAILABLE IN ARIZONA)

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM USDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

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PALMER SOLAR GESC DETAILS

EL PASO COUNTY, CO

Kimley Horn

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DESIGNED EJG	DRAWN KRK	CHECKED EJG
SCALE (H): SCALE (V):		
DATE: DECEMBER 20, 2018		
PROJECT NO. 096495003		
DWG. NAME 096495003_EC_DT		

SHEET NO.
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IF AND UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN FEET AND DECIMALS THEREOF. ALL DIMENSIONS SHALL BE TO UNLESS OTHERWISE NOTED. ALL DIMENSIONS SHALL BE TO UNLESS OTHERWISE NOTED. ALL DIMENSIONS SHALL BE TO UNLESS OTHERWISE NOTED.



GRADING AND EROSION CONTROL PLAN-808 PLAN SUBMITTAL