

# WOODMOOR WATER & SANITATION DISTRICT NO. 1

## HWY 105 UTILITY RELOCATION - PHASE B

### EL PASO COUNTY, COLORADO

### GRADING AND EROSION CONTROL PLAN

#### CONTACTS

<b>OWNER:</b>	WOODMOOR WATER AND SANITATION DISTRICT NO. 1 1845 WOODMOOR DRIVE MONUMENT, COLORADO 80132	JESSIE SHAFFER, P.E. (719) 488-2525 JESSIES@WOODMOORWATER.COM
<b>ENGINEER:</b>	JVA, INC. 1675 LARIMER STREET, SUITE 550 DENVER, CO 80202	RICHARD A HOOD, P.E. (303) 444-1951 RHOOO@JVAJVA.COM
<b>SURVEYOR:</b>	FARNSWORTH GROUP 4755 FORGE ROAD, SUITE 105 COLORADO SPRINGS, CO 80907	STEVEN PARKER, PLS (303) 692-8838 SPARKER@F-W.COM
<b>SURVEYOR:</b>	BARRON LAND 2790 N. ACADEMY BLVD SUITE 311 COLORADO SPRINGS, CO 80917	SPENCER BARRON, PLS (719) 360-6827 SPENCER@BARRONLAND.COM
<b>COUNTY:</b>	EL PASO COUNTY 3275 AKERS DRIVE COLORADO SPRINGS, CO 80922	ALISSA WERRE, P.E. (719) 520-6879 ALISSAWERRE@ELPASOCOUNTY.COM



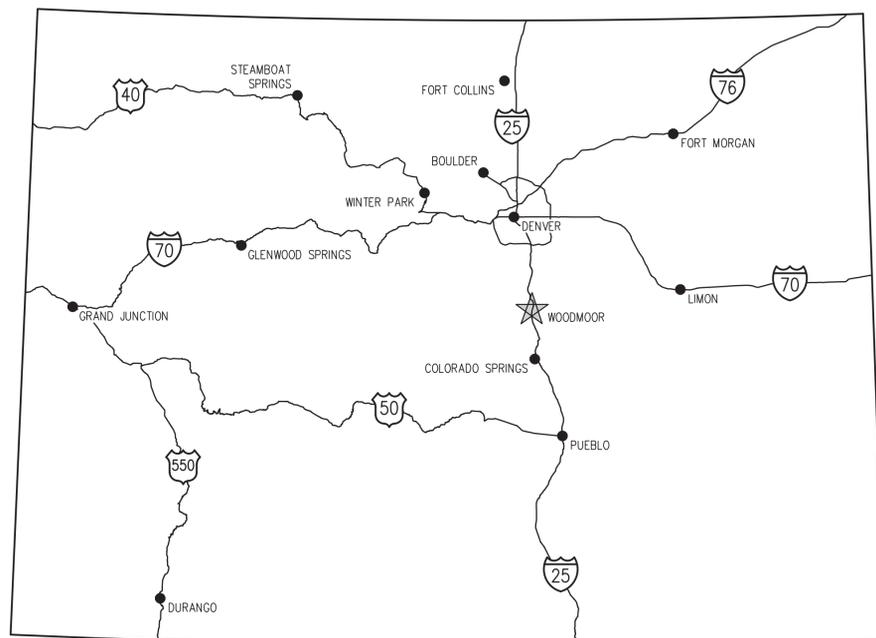
NOVEMBER 2024

PREPARED UNDER THE SUPERVISION OF

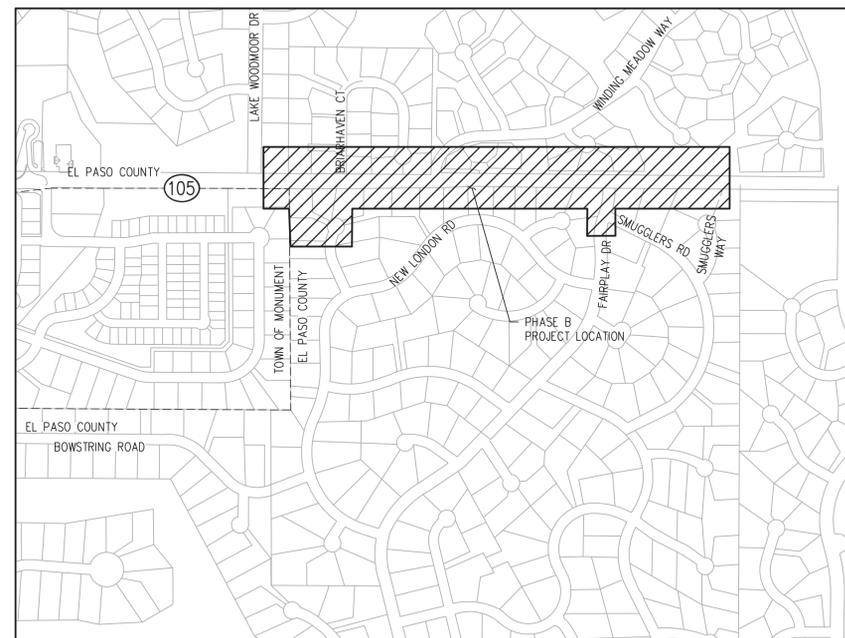
JVA, Inc.

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VICINITY MAP  
NTS



PROJECT LOCATION MAP  
NTS

#### ENGINEER'S STATEMENT:

THIS 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 PLAN.

ROBIN L. KRISS, CO PE 36807  
DATE 11/15/2024



#### OWNER'S/APPLICANTS STATEMENT:

I, THE OWNER/DEVELOPER HAVE READ AND WILL COMPLY WITH THE REQUIREMENTS OF THE GRADING AND EROSION CONTROL PLAN.

Jessie J. Shaffer  
OWNER SIGNATURE DATE 12-17-24

#### EL PASO COUNTY:

COUNTY PLAN REVIEW IS PROVIDED ONLY FOR GENERAL CONFORMANCE WITH THE 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 MANUAL VOLUMES 1 AND 2, AND ENGINEERING CRITERIA MANUAL, AS AMENDED.

IN ACCORDANCE WITH ECM SECTION 1.12, THESE CONSTRUCTION DOCUMENTS WILL BE VALID FOR CONSTRUCTION FOR A PERIOD OF 2 YEARS FROM THE DATE SIGNED BY THE EL PASO COUNTY ENGINEER. IF CONSTRUCTION HAS NOT STARTED WITHIN THOSE 2 YEARS, THE PLANS WILL NEED TO BE RESUBMITTED FOR APPROVAL, INCLUDING PAYMENT OF REVIEW FEES AT THE PLANNING AND COMMUNITY DEVELOPMENT DIRECTOR'S DISCRETION.

Joshua Palmer, P.E.  
County Engineer/ECM Administrator DATE

CDR2412

PCD File No. \_\_\_\_\_



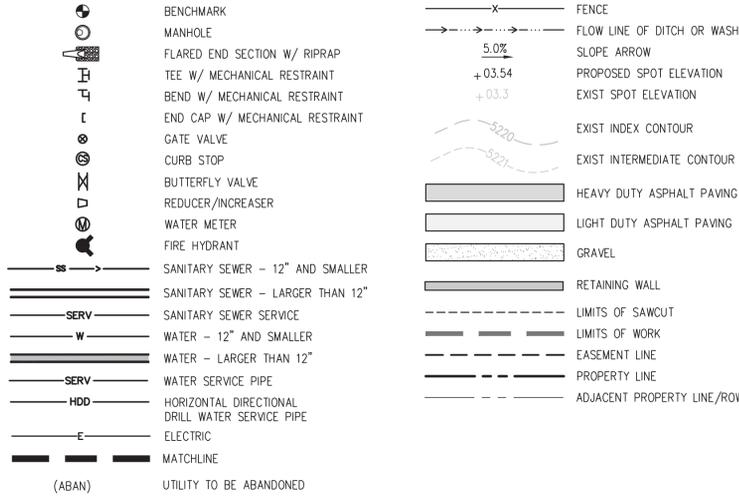
DESIGNED BY: ZCF/JGJ  
DRAWN BY: ZCF/JGJ  
CHECKED BY: RAH/JJM  
JOB #: 1051.14e  
DATE: NOV 2024  
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WOODMOOR WSD NO. 1  
HWY 105 UTILITY RELOCATION - PHASE B  
EL PASO COUNTY, COLORADO  
GENERAL LEGEND, NOTES,  
AND ABBREVIATIONS

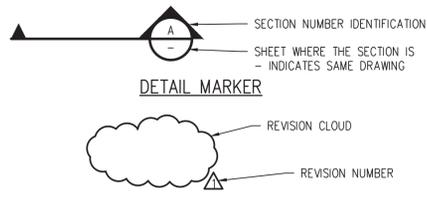
**GENERAL NOTES**

- ALL MATERIALS AND WORKMANSHIP SHALL BE IN CONFORMANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF EL PASO COUNTY, COLORADO, WOODMOOR WATER AND SANITATION DISTRICT, COLORADO DEPARTMENT OF TRANSPORTATION, TRI-LAKES MONUMENT FIRE PROTECTION DISTRICT, AND APPLICABLE STATE AND LOCAL STANDARDS AND SPECIFICATIONS. THE CONTRACTOR SHALL HAVE IN POSSESSION AT THE JOB SITE AT ALL TIMES ONE (1) SIGNED COPY OF APPROVED PLANS, STANDARDS AND SPECIFICATIONS. CONTRACTOR SHALL CONSTRUCT AND MAINTAIN EMERGENCY ACCESS ROADS TO THE SITE AND STRUCTURE AT ALL TIMES PER THE APPLICABLE TRI-LAKES MONUMENT FIRE PROTECTION DISTRICT REQUIREMENTS. THE CONTRACTOR SHALL OBTAIN WRITTEN APPROVAL FOR ANY VARIANCE TO THE ABOVE DOCUMENTS. NOTIFY ENGINEER OF ANY CONFLICTING STANDARDS OR SPECIFICATIONS. IN THE EVENT OF ANY CONFLICTING STANDARD OR SPECIFICATION, THE MORE STRINGENT OR HIGHER QUALITY STANDARD, DETAIL OR SPECIFICATION SHALL APPLY.
- THE CONTRACTOR SHALL OBTAIN, AT HIS OWN EXPENSE, ALL APPLICABLE CODES, LICENSES, STANDARD SPECIFICATIONS, PERMITS, BONDS, ETC., WHICH ARE NECESSARY TO PERFORM THE PROPOSED WORK, INCLUDING, BUT NOT LIMITED TO A LOCAL AND STATE GROUNDWATER DISCHARGE AND COLORADO DEPARTMENT OF HEALTH AND ENVIRONMENT (CDPHE) STORMWATER DISCHARGE PERMIT ASSOCIATED WITH CONSTRUCTION ACTIVITY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE REQUIRED PARTY (OWNER AND ENGINEER) AT LEAST 48 HOURS PRIOR TO START OF ANY CONSTRUCTION, PRIOR TO BACKFILLING, AND AS REQUIRED BY JURISDICTIONAL AUTHORITY AND/OR PROJECT SPECIFICATIONS. THE CONTRACTOR SHALL CONTINUE WITH NOTIFICATIONS THROUGHOUT THE PROJECT AS REQUIRED BY THE STANDARDS AND SPECIFICATIONS.
- THE LOCATIONS OF EXISTING UTILITIES ARE SHOWN IN THE APPROXIMATE LOCATION BASED ON INFORMATION BY OTHERS. NOT ALL UTILITIES MAY BE SHOWN. THE CONTRACTOR SHALL DETERMINE THE EXACT SIZE, LOCATION AND TYPE OF ALL EXISTING UTILITIES WHETHER SHOWN OR NOT BEFORE COMMENCING WORK. THE ENGINEER AND/OR OWNER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OR COMPLETENESS SHOWN ON PLANS. THE CONTRACTOR SHALL BE FULLY AND SOLELY RESPONSIBLE FOR ANY AND ALL DAMAGES AND COSTS WHICH MIGHT OCCUR BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UTILITIES. THE CONTRACTOR SHALL NOTIFY ALL PUBLIC AND PRIVATE UTILITY COMPANIES AND DETERMINE THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO PROCEEDING WITH GRADING AND CONSTRUCTION. ALL WORK PERFORMED IN THE AREA OF UTILITIES SHALL BE PERFORMED AND INSPECTED ACCORDING TO THE REQUIREMENTS OF THE UTILITY OWNER. LIKEWISE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND MAPPING ANY EXISTING UTILITY (INCLUDING DEPTH) WHICH MAY CONFLICT WITH THE PROPOSED CONSTRUCTION, AND FOR RELOCATING ENCOUNTERED UTILITIES AS DIRECTED BY THE ENGINEER. CONTRACTOR SHALL CONTACT AND RECEIVE APPROVAL FROM UTILITY OWNER AND ENGINEER BEFORE RELOCATING ANY ENCOUNTERED UTILITIES. CONTRACTOR RESPONSIBLE FOR SERVICE CONNECTIONS, AND RELOCATING AND RECONNECTING AFFECTED UTILITIES AS COORDINATED WITH UTILITY OWNER AND/OR ENGINEER, INCLUDING NON-MUNICIPAL UTILITIES (TELEPHONE, GAS, CABLE, ETC., WHICH SHALL BE COORDINATED WITH THE UTILITY OWNER). THE CONTRACTOR SHALL IMMEDIATELY CONTACT ENGINEER UPON DISCOVERY OF A UTILITY DISCREPANCY OR CONFLICT. AT LEAST 48 HOURS PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE UTILITY NOTIFICATION CENTER OF COLORADO ((1-800-922-1987, WWW.UNCCO.ORG). SEE SURVEY UTILITY LOCATION INFORMATION BELOW.
- THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS AT AND ADJACENT TO THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING THE PERFORMANCE OF THE WORK. THE CONTRACTOR SHALL PREPARE A TRAFFIC CONTROL PLAN FOR OWNER AND/OR CITY APPROVAL AND PROVIDE ALL LIGHTS, SIGNS, BARRICADES, FENCING, FLAGMEN OR OTHER DEVICES NECESSARY TO PROVIDE FOR PUBLIC SAFETY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR AGREES TO COMPLY WITH THE PROVISIONS OF THE TRAFFIC CONTROL PLAN AND THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES," PART VI, FOR CONSTRUCTION SIGNAGE AND TRAFFIC CONTROL. ALL TEMPORARY AND PERMANENT TRAFFIC SIGNS SHALL COMPLY TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) WITH REGARD TO SIGN SHAPE, COLOR, SIZE, LETTERING, ETC. UNLESS OTHERWISE SPECIFIED. IF APPLICABLE, PART NUMBERS ON SIGNAGE DETAILS REFER TO MUTCD SIGN NUMBERS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ANY GROUNDWATER ENCOUNTERED DURING THE CONSTRUCTION OF ANY PORTION OF THIS PROJECT. GROUNDWATER SHALL BE PUMPED, PIPED, REMOVED AND DISPOSED OF IN A MANNER WHICH DOES NOT CAUSE FLOODING OF EXISTING STREETS NOR EROSION ON ADJACENT PROPERTIES IN ORDER TO CONSTRUCT THE IMPROVEMENTS SHOWN ON THESE PLANS. GROUNDWATER TO BE PUMPED SHALL BE TESTED, PERMITTED, AND PUMPED PER THE STATE OF COLORADO AND LOCAL GROUNDWATER DISCHARGING PERMIT REQUIREMENTS.
- RIM AND GRATE ELEVATIONS SHOWN ON PLANS ARE APPROXIMATE ONLY AND ARE NOT TO BE TAKEN AS FINAL ELEVATIONS. THE CONTRACTOR SHALL ADJUST RIMS AND OTHER IMPROVEMENTS TO MATCH FINAL PAVEMENT AND FINISHED GRADE ELEVATIONS. ALL MANHOLES SHALL BE FINAL ADJUSTED AFTER PAVING SUCH THAT THE RIM IS 1/2" TO 3/4" BELOW FINISHED ASPHALT. MANHOLES IN UNPAVED AREAS SHALL BE SET SO THAT THE RIM IS 6" ABOVE FINISHED GRADE.
- THE EXISTING AND PROPOSED ELEVATIONS OF FLATWORK, SIDEWALKS, CURBS, THRESHOLDS, PAVING, ETC. AS SHOWN HEREON ARE BASED ON EXTRAPOLATION OF FIELD SURVEY DATA, EXISTING CONDITIONS, AND DATA PROVIDED BY OTHERS. AT CRITICAL AREAS AND SITE FEATURES, CONTRACTOR SHALL HAVE FORMWORK INSPECTED AND APPROVED BY OWNER, OWNER'S REPRESENTATIVE, OR ENGINEER PRIOR TO PLACING CONCRETE. MINOR ADJUSTMENTS, AS APPROVED, TO PROPOSED GRADES, INVERTS, ETC. MAY BE REQUIRED TO PREVENT PONDING OR SLOPE NOT IN CONFORMANCE WITH MUNICIPAL STANDARDS. ALL FLATWORK MUST PREVENT PONDING AND PROVIDE POSITIVE DRAINAGE AWAY FROM EXISTING AND PROPOSED BUILDINGS, WALLS, ROOF DRAIN OUTFALLS, ACROSS DRIVES AND WALKS, ETC., TOWARDS THE PROPOSED INTENDED DRAINAGE FEATURES AND CONVEYANCES.
- FINAL LIMITS OF REQUIRED ASPHALT SAWCUTTING AND PATCHING MAY VARY FROM LIMITS SHOWN ON PLANS. CONTRACTOR TO PROVIDE SAWCUT AND PATCH WORK TO ACHIEVE POSITIVE DRAINAGE AND A SMOOTH TRANSITION TO EXISTING ASPHALT WITHIN SLOPES ACCEPTABLE TO THE ENGINEER AND WITHIN MUNICIPAL STANDARDS. CONTRACTOR SHALL PROVIDE ADDITIONAL SAWCUTTING AND PATCHING AT UTILITY WORK, CONNECTION POINTS TO EXISTING PAVEMENT AND FEATURES, ETC. THAT MAY NOT BE DELINEATED ON PLANS.
- ANY EXISTING MONITORING WELLS, CLEANOUTS, VALVE BOXES, ETC. TO BE PROTECTED AND TO REMAIN IN SERVICE. IF FEATURES EXIST, EXTEND OR LOWER TO FINAL SURFACE WITH LIKE KIND CAP WITH STANDARD CAST ACCESS LID WITH SAME MARKINGS. IN LANDSCAPED AREAS PROVIDE A CONCRETE COLLAR (18"x18"x6" THICK) AT ALL EXISTING AND PROPOSED MONITORING WELLS, CLEANOUTS, VALVE BOXES, ETC.
- OWNER TO APPROVE ALL PRIVATE CONCRETE FINISHING, JOINT PATTERNS AND COLORING REQUIREMENTS PRIOR TO CONSTRUCTION. SUBMIT JOINT LAYOUT PLAN TO OWNER FOR APPROVAL PRIOR TO CONSTRUCTION.
- PIPE LENGTHS AND HORIZONTAL CONTROL POINTS SHOWN ARE FROM CENTER OF STRUCTURES, END OF FLARED END SECTIONS, ETC. SEE STRUCTURE DETAILS FOR EXACT HORIZONTAL CONTROL LOCATION. CONTRACTOR IS RESPONSIBLE FOR ADJUSTING ACTUAL PIPE LENGTHS TO ACCOUNT FOR STRUCTURES AND LENGTH OF FLARED END SECTIONS.
- ALL SURPLUS MATERIALS, TOOLS, AND TEMPORARY STRUCTURES, FURNISHED BY THE CONTRACTOR, SHALL BE REMOVED FROM THE PROJECT SITE BY THE CONTRACTOR. ALL DEBRIS AND RUBBISH CAUSED BY THE OPERATIONS OF THE CONTRACTOR SHALL BE REMOVED, AND THE AREA OCCUPIED DURING CONSTRUCTION ACTIVITIES SHALL BE RESTORED TO ITS ORIGINAL CONDITION, WITHIN 48 HOURS OF PROJECT COMPLETION, UNLESS OTHERWISE DIRECTED BY THE MUNICIPALITY OR OWNER'S REPRESENTATIVE.
- THE CONTRACTOR IS REQUIRED TO PROVIDE AND MAINTAIN EROSION AND SEDIMENT CONTROL MEASURES IN ACCORDANCE WITH THE LOCAL JURISDICTION, THE STATE OF COLORADO, MILE HIGH FLOOD DISTRICT "URBAN STORM DRAINAGE CRITERIA MANUAL VOLUME 3", THE M-STANDARD PLANS OF THE COLORADO DEPARTMENT OF TRANSPORTATION, AND THE APPROVED EROSION CONTROL PLAN. JURISDICTIONAL AUTHORITY MAY REQUIRE THE CONTRACTOR TO PROVIDE ADDITIONAL EROSION CONTROL MEASURES AT THE CONTRACTOR'S EXPENSE DUE TO UNFORESEEN EROSION PROBLEMS OR IF THE PLANS DO NOT FUNCTION AS INTENDED. THE CONTRACTOR IS RESPONSIBLE FOR PROHIBITING SILT AND DEBRIS LADEN RUNOFF FROM LEAVING THE SITE, AND FOR KEEPING ALL PUBLIC AREAS FREE OF MUD AND DEBRIS. THE CONTRACTOR IS RESPONSIBLE FOR RE-ESTABLISHING FINAL GRADES AND FOR REMOVING ACCUMULATED SEDIMENTATION FROM ALL AREAS INCLUDING SWALES AND DETENTION/WATER QUALITY AREAS. CONTRACTOR SHALL REMOVE TEMPORARY EROSION CONTROL MEASURES AND REPAIR AREAS AS REQUIRED AFTER VEGETATION IS ESTABLISHED AND ACCEPTED BY OWNER AND MUNICIPALITY.
- PROTECT ALL TREES AND VEGETATION. PLACE CONSTRUCTION FENCING AT DRIP LINE OF TREES AND PLANTS NEAR THE WORK ZONE. DEEP WATER TREES WEEKLY. HAND EXCAVATION REQUIRED AT ROOT ZONES WHERE PROPOSED PAVING OR UTILITY WORK IS WITHIN DRIPLINE OF TREES.
- SURVEY INFORMATION:  
BENCHMARK INFORMATION: TOPOGRAPHIC INFORMATION WAS PROVIDED TO JVA INC. BY HDR ENGINEERING. HDR IS COMPLETING FEDERAL AID PROJECT NO. STA 105A-014 HIGHWAY 105 FROM WOODMOOR DRIVE TO LAKE WOODMOOR. A SURVEY TOPOGRAPHIC SURVEY WAS COMPLETED BY THE FARNSWORTH GROUP, SEE HIGHWAY 105 MONUMENT ACADEMY RECIRCULATION PLAN PROJECT CONTROL, LAST MODIFIED DATE 04/06/2022. COORDINATE AND VERIFY ALL VERTICAL AND HORIZONTAL DATA SHOWN IN SURVEY AND REPORT ANY IRREGULARITIES OR DISCREPANCIES TO ENGINEER PRIOR TO CONSTRUCTION.  
16.1. BASIS OF BEARINGS: BEARINGS USED IN THE CALCULATIONS OF COORDINATES ARE BASED ON A GRID BEARING N88°55'53"E 5985.56 FEET FROM CONTROL POINT 588 TO CONTROL POINT 522. BOTH MONUMENTS ARE CDOT TYPE II, MARKED APPROPRIATELY FOR THEIR POINT NUMBER AND WITH HIGHWAY NUMBER.  
16.2. BENCHMARK INFORMATION: TOPOGRAPHIC INFORMATION WAS PROVIDED BY BARRON LAND. SEE TOPOGRAPHICAL MAP DATED 10/26/2023. PROJECT BENCHMARK ELEVATION: 7188.80 AT CDOT CONTROL POINT MONUMENT #522.  
16.3. BASIS OF BEARINGS: BEARINGS ARE BASED UPON A LINE FROM CDOT CONTROL POINT MONUMENT #588 ON THE WEST TO CDOT CONTROL POINT MONUMENT #522 ON THE EAST, BOTH POINTS BEING CDOT TYPE II MONUMENTS, AS STATED IN THE PROVIDED "MONUMENT ACADEMY RECIRCULATION PLAN" CONTROL DIAGRAM PERFORMED BY FARNSWORTH GROUP, DATED 4/06/2022, AND IS ASSUMED TO BEAR N 88°55'53" E, A DISTANCE OF 5985.56 FEET.  
16.4. HORIZONTAL CONTROL INFORMATION: PER THE "HIGHWAY 105 MONUMENT ACADEMY RECIRCULATION PLAN PROJECT CONTROL", PROJECT COORDINATES ARE MODIFIED STATE PLANE CENTRAL ZONE NAD 83(2011) COORDINATES. THE COMBINED ELEVATIONS, SCALE FACTOR USED TO MODIFY THE COORDINATES FROM STATE PLANE TO PROJECT COORDINATES IS 1.999399720. THESE COORDINATES ARE NOT TRUNCATED, ARE ONLY SCALED AND ARE BASED ON THE CDOT PLANS SHE\_105-010, DATED FEBRUARY 10, 2003 IN ORDER TO MATCH 2011 WESTERN STATES SURVEYING PHOTOGRAMMETRY PROJECT WHICH WAS FOUND TO BE ON THE 2003 PROJECT DATUM. PROJECT COORDINATES EXPRESSED AS U.S. SURVEY FOOT = 3937/1200 METERS. PROJECT COORDINATES U.S. SURVEY FOOT = (STATE PLANE COORDINATE NORTHING \* 1.000399720), PROJECT COORDINATES U.S. SURVEY FOOT = (STATE PLANE COORDINATE EASTING \* 1.000399720). DATE OF ORIGINAL SURVEY: JULY 30, 2015. DATE OF LAST SURVEY: JANUARY 30, 2017  
CP-200 N 3189431.88 E 1460194.23 ELEV 7184.20  
CP-238 N 3191014.34 E 1460226.76 ELEV 7231.63  
CP-244 N 3188841.06 E 1459703.25 ELEV 7196.25
- SURVEY UTILITY LOCATION INFORMATION PER THE SURVEYOR: SUBSURFACE UTILITIES ARE SHOWN IN APPROXIMATE HORIZONTAL AND VERTICAL LOCATIONS CONSISTENT WITH ASCE 38-02 QUALITY LEVEL "B" (INFORMATION OBTAINED BY THE APPLICATION OF APPROPRIATE SURFACE GEOPHYSICAL METHODS TO DETERMINE THE EXISTENCE AND HORIZONTAL POSITION OF VIRTUALLY ALL UTILITIES WITHIN THE PROJECT LIMITS. THE INFORMATION OBTAINED IN THIS MANNER IS SURVEYED TO PROJECT CONTROL.) AND QUALITY LEVEL "C" (INFORMATION OBTAINED BY SURVEYING AND PLOTTING VISIBLE ABOVE-GROUND UTILITY FEATURES AND BY USING PROFESSIONAL JUDGMENT IN CORRELATING THIS INFORMATION TO QUALITY LEVEL D; INFORMATION DERIVED FROM EXISTING RECORDS OR ORAL RECOLLECTIONS), AND BASED ON FIELD MEASUREMENTS PROVIDED BY THE OWNER AND THE CONTRACTOR. SUBSURFACE UTILITIES ARE NOT DEPICTED TO THE EXTENT SET FORTH IN ASCE 38-02 QUALITY LEVELS "A" (INFORMATION OBTAINED THROUGH THE NONDESTRUCTIVE EXPOSURE OF UNDERGROUND UTILITIES, AND ALSO PROVIDES THE TYPE, SIZE, CONDITION, MATERIAL AND OTHER CHARACTERISTICS OF UNDERGROUND FEATURES.), TO THE EXTENT DEEMED NECESSARY FOR THE PROTECTION OF PERSONS AND PROPERTY, POTHOLES OR OTHER PRECISE MAPPING MAY BE COMPLETED TO CONFIRM THE EXACT LOCATION OF ANY SUBSURFACE UTILITIES. NOTIFY OWNER AND ENGINEER WITH ALL UTILITY INFORMATION PRIOR TO CONSTRUCTION. VISIT HTTPS://WWW.FHWA.DOT.GOV/PROGRAMADMIN/SUEINDEX.CFM FOR MORE INFORMATION.
- LABEL HORIZONTAL AND VERTICAL COORDINATES FOR AT LEAST TWO HORIZONTAL CONTROL POINTS IN THE VICINITY OF THE DEVELOPMENT AND GRAPHICALLY DEPICT THE VERTICAL CONTROL POINTS ON THE LOCATION AND/OR VICINITY MAP. UTILIZE THE HORIZONTAL AND VERTICAL COORDINATE SYSTEM SHOWN IN THE FOLLOWING TABLE, TITLED WOODMOOR WATER AND SANITATION DISTRICT NO. 1 GIS COORDINATE SYSTEM, FOR THE IMPROVEMENTS SHOWN ON THE PLAN SET.
- THE CONTRACTOR AT THE CONTRACTORS EXPENSE SHALL FURNISH THE OWNER AND ENGINEER OF RECORD A COMPLETE SET OF CONSTRUCTION RECORD DRAWINGS ("AS-BUILTS") FOR THE CONSTRUCTED IMPROVEMENTS. THE AS-BUILT SET SHALL SHOW SUFFICIENT DIMENSION TIES TO PERMANENT SURFACE FEATURES OR NORTHING/EASTING POINTS FOR ALL BURIED FACILITIES TO ALLOW FOR FUTURE LOCATING. THE AS-BUILT SET SHALL SHOW AS-BUILT CONTOURS AND ELEVATIONS OF ASPHALT AND CONCRETE FLATWORK, FLOWLINES, GRADE BREAKS, STAIRS, CROSS-SLOPES, HIGH AND LOW POINTS, AND ADDITIONAL ELEVATIONS TO DEMONSTRATE IMPROVEMENTS WERE CONSTRUCTED PER PLANS. THE AS-BUILT SET SHALL SHOW ELEVATIONS OF ALL DETENTION/WATER QUALITY FACILITIES, INCLUDING BUT NOT LIMITED TO BERMS, SPILLWAYS, BASIN BOTTOM, PIPE INVERTS, AND CONTROL STRUCTURE FEATURES (AS SURVEYED AND STAMPED BY A CERTIFIED P.L.S.). THE AS-BUILT SET SHALL ALSO INCLUDE ELEVATIONS OF MANHOLES, PIPES, INLETS, GRATES, AND SIZES OF ALL UTILITIES. THE AS-BUILT SET SHALL SHOW ANY AND ALL VARIATIONS FROM THE APPROVED PLAN. ENGINEER WILL PUBLISH FINAL RECORD DRAWINGS.

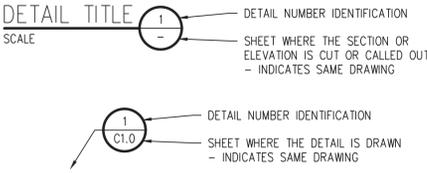
**DESIGN LEGEND**



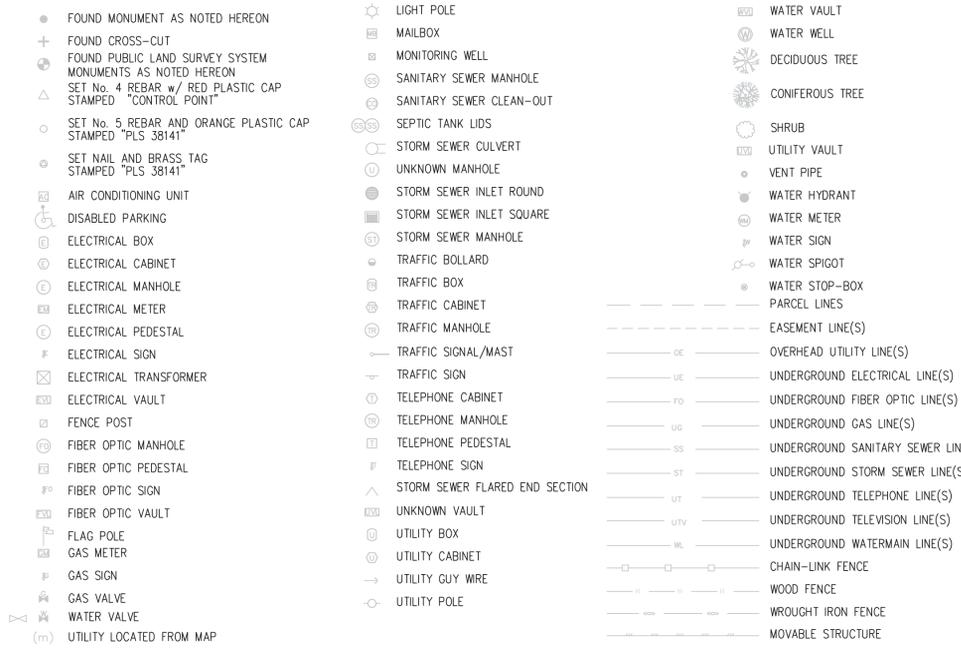
**SECTION CALLOUT**



**DETAIL TITLE**



**SURVEY LEGEND**



NOTE: SHADED OR GREY ITEMS REPRESENT EXIST FEATURES

**WOODMOOR WATER & SANITATION DISTRICT NO. 1 GIS COORDINATE SYSTEM**

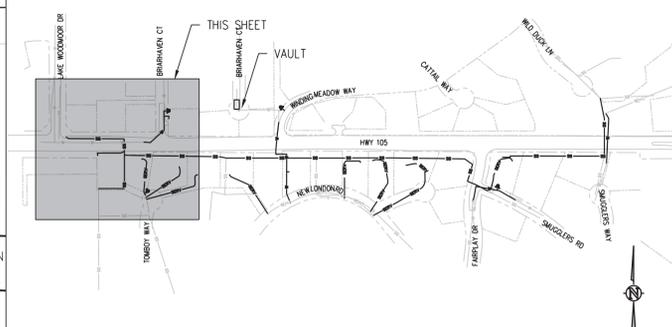
COORDINATE ZONE	MODIFIED STATE PLANE
ZONE	COLORADO CENTRAL ZONE 2011
DATUM	NAD 1983 (CONUS) CORS 96
VERTICAL DATUM	NORTH AMERICAN VERTICAL DATUM 1988 (NAVD 88)
COORDINATE ORDER	NORTH/EAST
COORDINATE UNITS	US SURVEY FEET
ALTITUDE REFERENCE	HEIGHT ABOVE ELLIPSOID (HAE)
ALTITUDE UNITS	FEET

**ABBREVIATIONS**

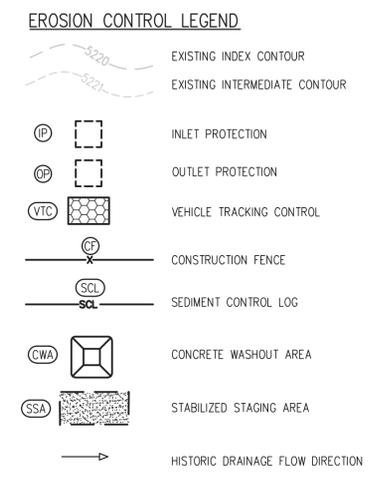
AASHTO	AMERICAN ASSOC. OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS	INCL	INCLUDED	INCL	INCLUDED
ABAN	ABANDON	ID	INSIDE DIAMETER	IN	INLET
AC	ASPHALTIC CONCRETE PAVING	INSUL	INSULATION	INVT	INVERT
ADDL	ADDITIONAL	IRR	IRRIGATION	JTS	JOINTS
ADDM	ADDENDUM	KO	KNOCKOUT	KPL	KICK PLATE
ADJ	ADJUSTABLE	KWY	KEYWAY	L	LEFT OR LITER
AL	ALUMINUM	LSCAPE	LANDSCAPE(ING)	LF	LINEAR FOOT
ALT	ALTERNATE	LP	LOW POINT OR LIGHT POLE	LT	LIGHT
AMT	AMOUNT	LWL	LOW WATER LEVEL	MAINT	MAINTENANCE
APPROX	APPROXIMATE	MAN	MANUAL	MATL	MATERIAL
ARCH	ARCHITECT(URAL)	MAX	MAXIMUM	MECH	MECHANICAL
ARV	AIR RELIEF VALVE	MEP	MECHANICAL, ELECTRICAL, PLUMBING (ARCH)	MFR	MANUFACTURER
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	MH	MANHOLE	MIN	MINIMUM
ASPH	ASPHALT	MISC	MISCELLANEOUS	MJ	MECHANICAL JOINT
ASSY	ASSEMBLY	N	NORTH	NA	NOT APPLICABLE
ASYM	ASYMMETRICAL	NIC	NOT IN CONTRACT	NPT	NATIONAL PIPE THREAD
AUTO	AUTOMATIC	NTS	NOT TO SCALE	OS	OFFSET
AVG	AVERAGE	OC	ON CENTER	OD	OUTSIDE DIAMETER
AWWA	AMERICAN WATER WORKS ASSOC.	OPP	OPPOSITE	OPT	OPTIONAL
BC	BACK OF CURB	PC	POINT OF CURVATURE	PCO	PRESSURE CLEAN OUT
BFV	BUTTERFLY VALVE	PCO	PRESSURE CLEAN OUT	PCR	POINT OF CURVE RETURN
BG	FINISHED GRADE ADJACENT TO BOTTOM OF WALL	PI	POINT OF INTERSECTION	PVI	POINT OF VERTICAL INTERSECTION
BLDG	BUILDING	PL	PROPERTY LINE	PE	POLYETHYLENE
BLK	BLOCK	PREFAB	PREFABRICATED	PRELIM	PRELIMINARY
BN	BENCH MARK	PREP	PREPARATION	PROP	PROPOSED
BMP	BEST MANAGEMENT PRACTICE	PRV	PRESSURE REDUCING VALVE OR PRESSURE RELIEF VALVE	PSF	POUNDS PER SQUARE FOOT
BS	BACKSIGHT	PSI	POUNDS PER SQUARE INCH	PT	POINT OF TANGENCY
BOS	BOTTOM OF STEP	PV	PLUG VALVE	PVC	POLYVINYL CHLORIDE OR POINT OF VERTICAL CURVATURE
BOT	BOTTOM	PVMT	PAVEMENT	QTY	QUANTITY
BSMT	BASEMENT	R	RIGHT	R	RADIUS
BVCE	BEGIN VERTICAL CURVE ELEVATION	RAD	RADIUS	RCP	REINFORCED CONCRETE PIPE
BVCS	BEGIN VERTICAL CURVE STATION	RD	ROOF DRAIN	RE	REFERENCE
BW	BOTTOM OF WALL	RECT	RECTANGULAR	REIN	REINFORCE (D) (ING) (MENT)
CB	CATCH BASIN	REQD	REQUIRED	ROW	RIGHT OF WAY
CCW	COUNTER CLOCKWISE	ROW	RIGHT OF WAY	SAN	SANITARY
CDOT	COLORADO DEPARTMENT OF TRANSPORTATION	SC	SAWCUT	SD	STORM DRAIN
CIP	CAST IRON PIPE	SD	STORM DRAIN	SECT	SECTION
CJ	CONSTRUCTION JOINT	SEC	STANDARD PROCTOR DENSITY SPECIFICATION	SPD	STANDARD PROCTOR DENSITY SPECIFICATION
CL	CENTER LINE OR CHAIN LINK	SEC	SQUARE	SQ	SQUARE INCH
CLR	CLEAR	SO IN	SQUARE INCH	SO FT	SQUARE FOOT
CMP	CORRUGATED METAL PIPE	SO YD	SQUARE YARD	SS	SANITARY SEWER
CMU	CONCRETE MASONRY UNIT	SSA	STABILIZED STAGING AREA	SST	STAINLESS STEEL
CNO	CLEANOUT	SST	STAINLESS STEEL	STA	STATION
CONC	CONCRETE	STD	STANDARD	STD	STANDARD
CONST	CONSTRUCTION	STL	STEEL	STRUCT	STRUCTURAL
CONT	CONTINUOUS(ATION)	SVC	SERVICE	SWM	STORMWATER MANAGEMENT PLAN
COR	CORNER	SYM	SYMMETRICAL	SYM	SYMMETRICAL
CR	CONCENTRIC REDUCER	TB	THRUST BLOCK	TBC	TOP BACK OF CURB
CTR	CENTER	TBM	TEMPORARY BENCH MARK	TEMP	TEMPORARY
CY	CUBIC YARDS	TBM	TEMPORARY BENCH MARK	TEMP	TEMPORARY
DEMO	DEMOLITION	THK	THICK	TOB	TOP OF BANK
DET	DETAIL	TOC	TOP OF CONCRETE OR TOP OF CURB	TOS	TOP OF STEP
DIA	DIAMETER	TOT	TOTAL	TW	TOP OF WALL OR CAP OF WALL
DIAG	DIAGONAL	TYP	TYPICAL	UBC	UNIFORM BUILDING CODE
DIP	DUCTILE IRON PIPE	UBC	UNIFORM BUILDING CODE	UGE	UNDERGROUND ELECTRIC
DOM	DOMESTIC	UG	UNDERGROUND	UTIL	UTILITY
DN	DOWN	UTL	UTILITY	VERT	VERTICAL
DR	DRAIN	VCP	VITRIFIED CLAY PIPE	VC	POINT OF VERTICAL CURVATURE
DWG	DRAWING	W	WIDE OR WIDTH	VCP	VITRIFIED CLAY PIPE
DWL	DOWEL	W/O	WITHOUT	W	WIDE OR WIDTH
E	EAST	W/Q	WATER QUALITY CONTROL VOLUME	W	WIDE OR WIDTH
EA	EACH	WSE	WATER SURFACE ELEVATION	W	WIDE OR WIDTH
ECC	ECCENTRIC	WW	WASTEWATER	X	SECT CROSS SECTION
EJ	EXPANSION JT	YH	YARD HYDRANT	XFMR	ELECTRICAL TRANSFORMER
EL	ELEVATION			YH	YARD HYDRANT
ELB	ELBOW				
ELCC	ELECTRICAL				
ENGR	ENGINEER				
EOP	EDGE OF PAVEMENT				
EQ	EQUAL				
EQUIP	EQUIPMENT				
EQUIV	EQUIVALENT				
ESMT	EASEMENT				
EST	ESTIMATE				
EVCS	END VERTICAL CURVE ELEVATION				
EVC	END VERTICAL CURVE STATION				
EWH	EACH WAY				
EXP	EXPANSION JOINT				
EXIST	EXISTING				
FND	FOUNDATION				
FES	FLARED END SECTION				
FF	FINISH FLOOR				
FG	FINISH GRADE				
FH	FIRE HYDRANT				
FL	FLOW LINE				
FN	FENCE				
FOC	FACE OF CONCRETE				
FSM	FEET PER MINUTE				
FPS	FEET PER SECOND				
FT	FEET				
FTG	FOOTING OR FITTING				
G	GAS				
GA	GAUGE				
GAL	GALLON				
GALV	GALVANIZED				
GB	GRADE BREAK				
GC	GRADE CLEANOUT				
GIP	GALVANIZED IRON PIPE				
GND	GROUND				
GPD	GALLONS PER DAY				
GPM	GALLONS PER MINUTE				
GR	GRATE				
GRG	GRATING				
GSP	GALVANIZED STEEL PIPE				
GV	GATE VALVE				
H	HIGH				
HB	HOSE BIB				
HE	HORIZONTAL ELLIPTICAL				
HDL	HEADWAY				
HNDRL	HAND RAIL				
HORIZ	HORIZONTAL				
HP	HIGH POINT				
HR	HOUR				
HVAC	HEATING, VENTILATION, AIR CONDITIONING				
HWY	HIGHWAY				
HWL	HIGH WATER LINE				
HYD	HYDRANT				

N:\1051.14e - WSD - CO - 05 Phase B\Drawings\1051.14e - 00 - CIV-UNA(GC).dwg, 11/15/2024 - 12:16 PM, ANF

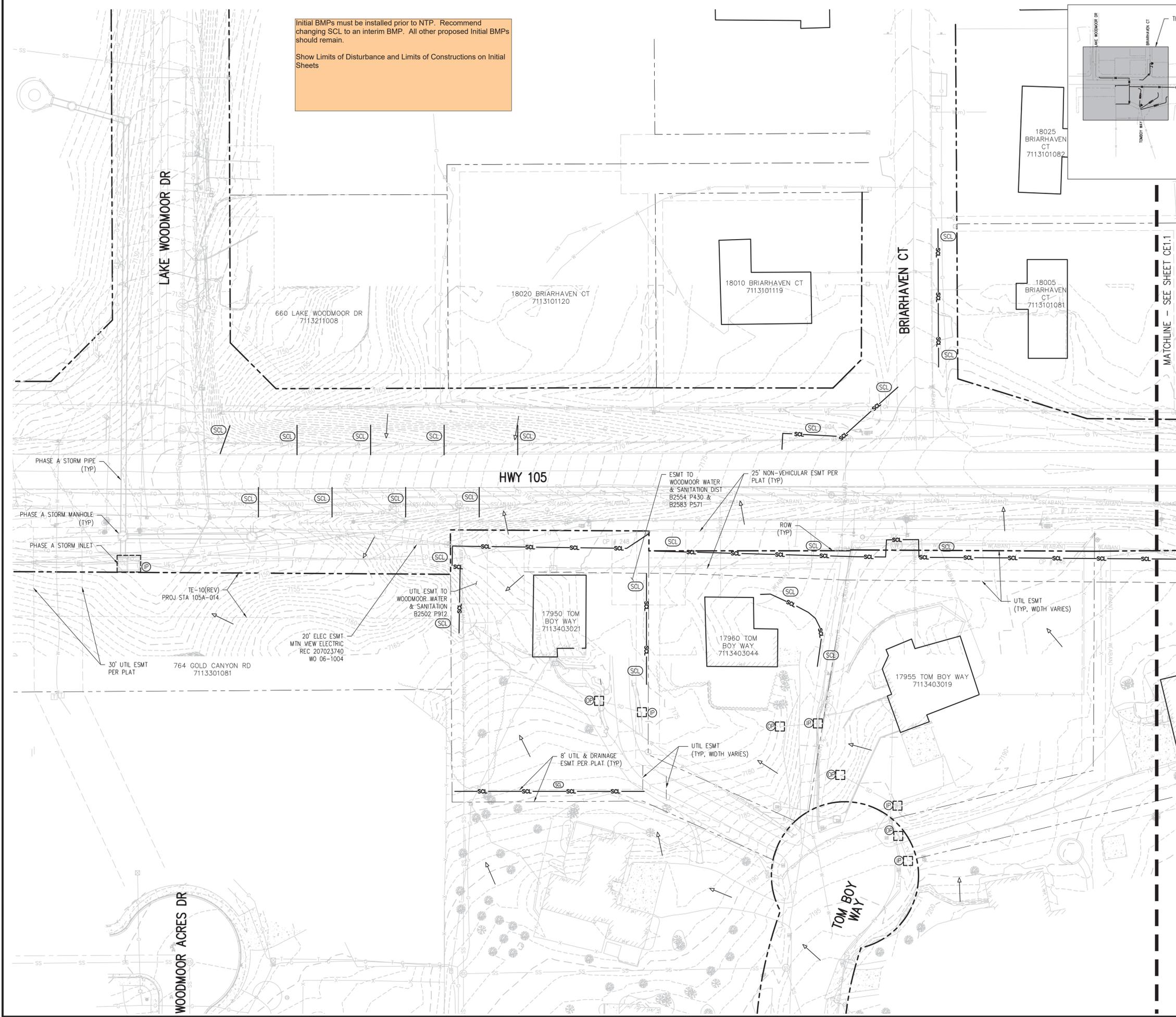
Initial BMPs must be installed prior to NTP. Recommend changing SCL to an interim BMP. All other proposed Initial BMPs should remain.  
 Show Limits of Disturbance and Limits of Constructions on Initial Sheets



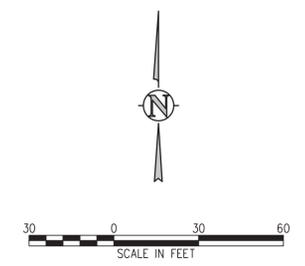
- EROSION AND SEDIMENTATION NOTES:**
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To comply with the SWMP Checklist Item 17f, please add a note stating no batch plants will be utilized onsite.



MATCHLINE - SEE SHEET CE1.1



NO.	DATE	DESIGN	DESCRIPTION



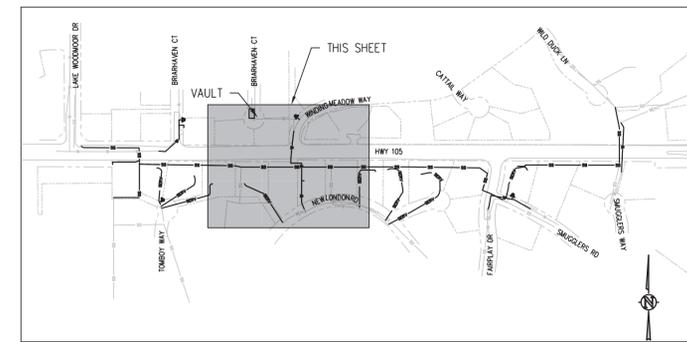
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 CHECKED BY: RAH/JJM  
 JOB #: 1051.14e  
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WOODMOOR WSD NO. 1  
 HWY 105 UTILITY RELOCATION - PHASE B  
 EL PASO COUNTY, COLORADO  
 INITIAL GRADING AND  
 EROSION CONTROL PLAN

SHEET NO.  
**CE1.0**



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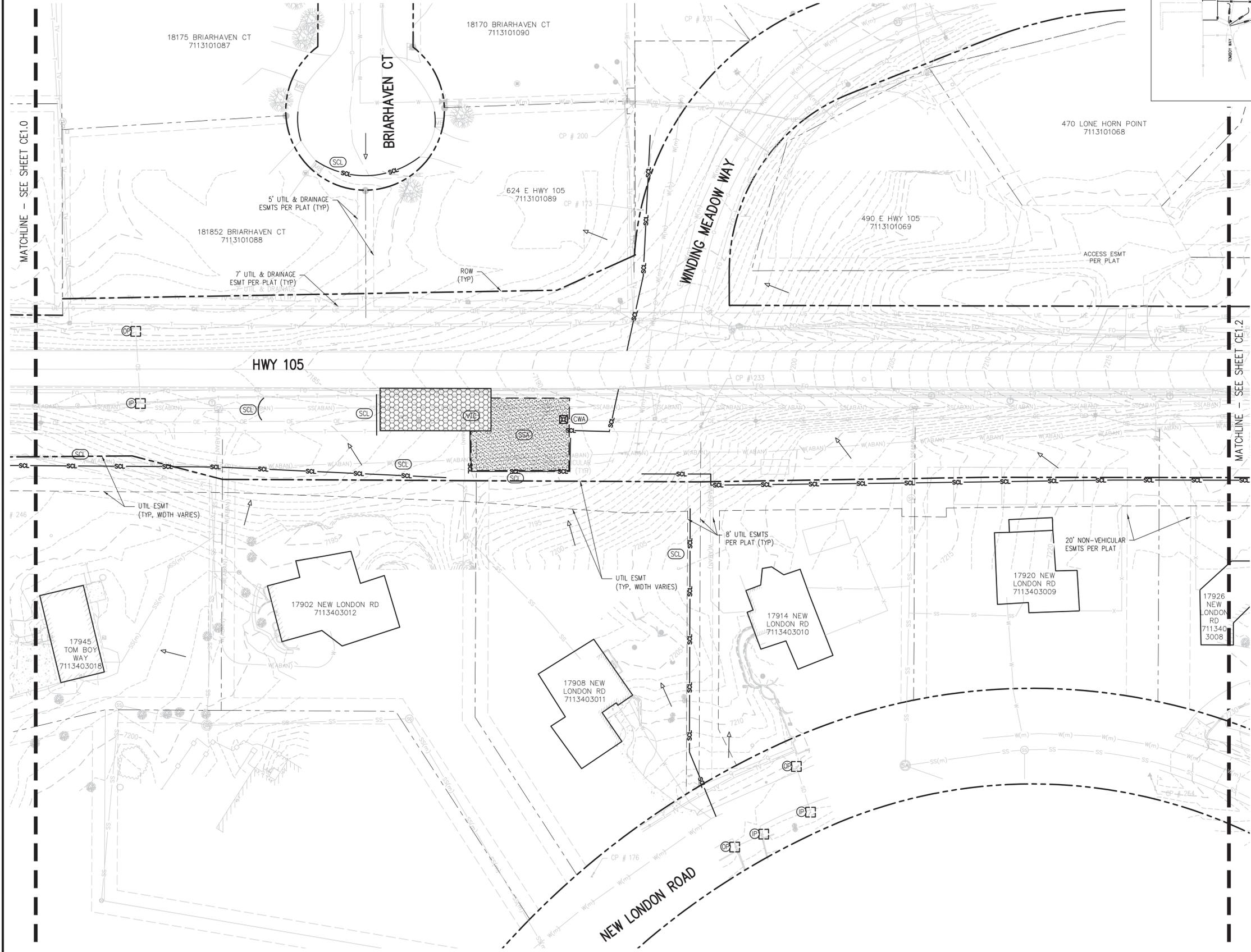


KEY MAP  
 NTS

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**EROSION CONTROL LEGEND**

- EXISTING INDEX CONTOUR
- EXISTING INTERMEDIATE CONTOUR
- INLET PROTECTION
- OUTLET PROTECTION
- VEHICLE TRACKING CONTROL
- CONSTRUCTION FENCE
- SEDIMENT CONTROL LOG
- CONCRETE WASHOUT AREA
- STABILIZED STAGING AREA
- HISTORIC DRAINAGE FLOW DIRECTION



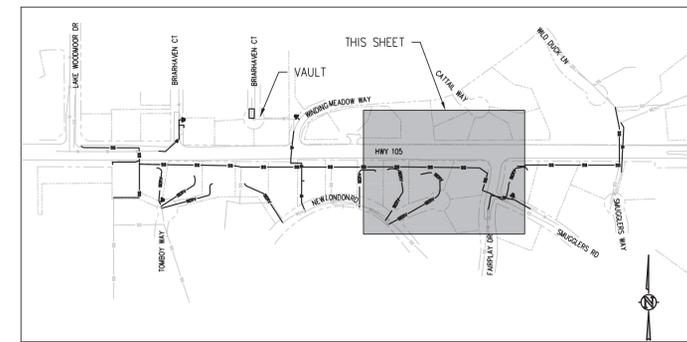
NO.	DATE	DESIGN	DWNN	REVISION DESCRIPTION



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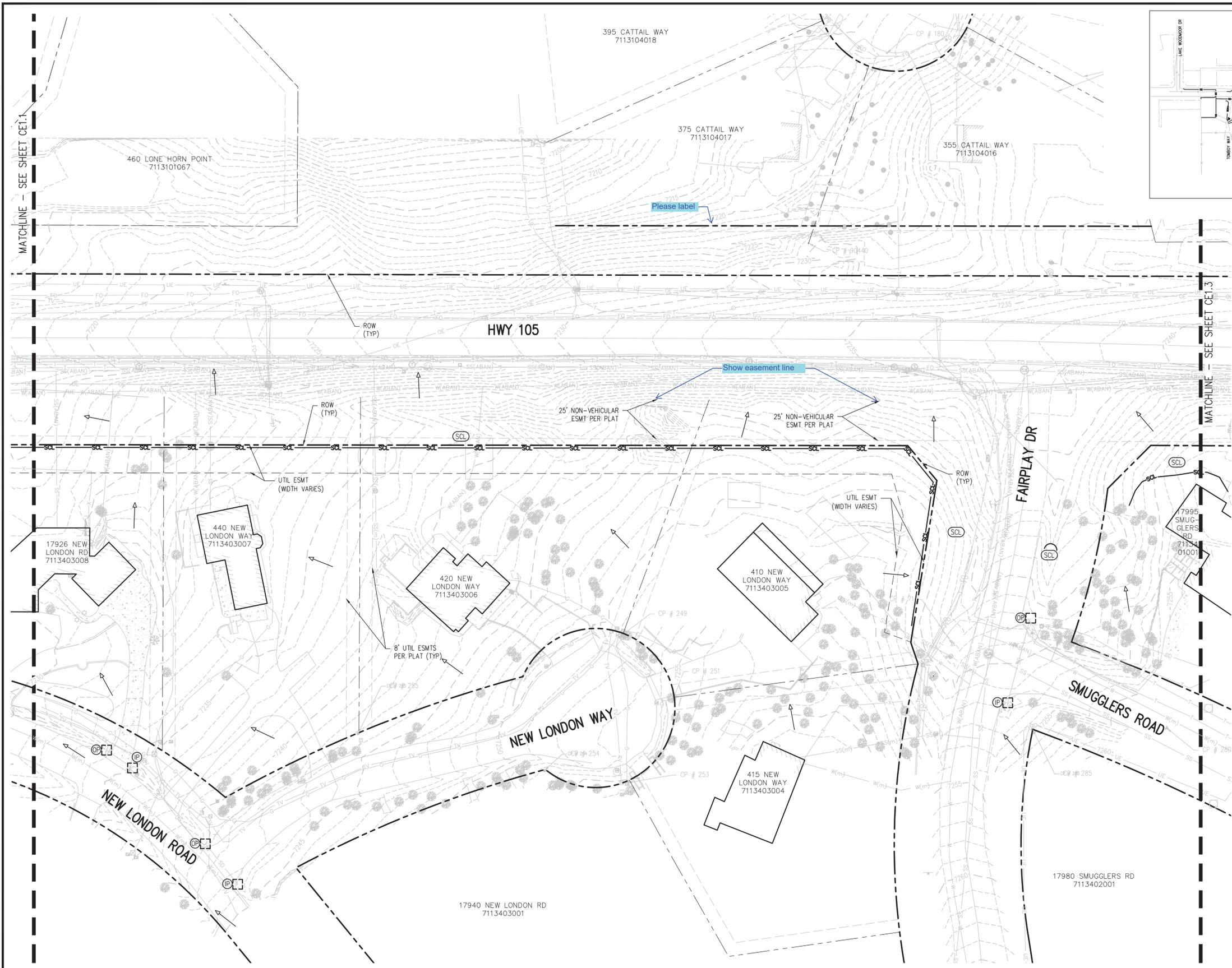
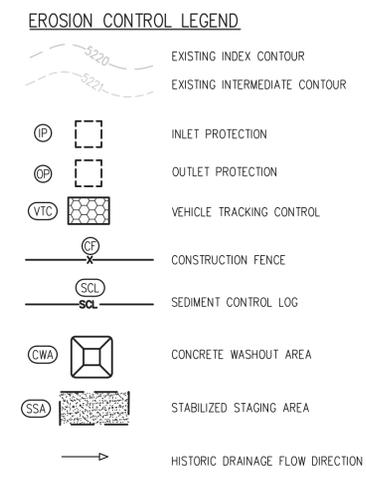
WOODMOOR WSD NO. 1  
 HWY 105 UTILITY RELOCATION - PHASE B  
 EL PASO COUNTY, COLORADO  
 INITIAL GRADING AND  
 EROSION CONTROL PLAN

SHEET NO.  
**CE1.1**



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NTS

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MATCHLINE - SEE SHEET CE1.1

MATCHLINE - SEE SHEET CE1.3

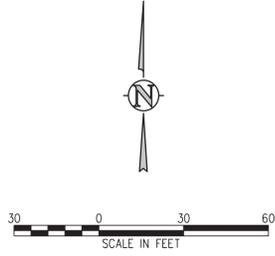
NO. DATE DESIGNED BY



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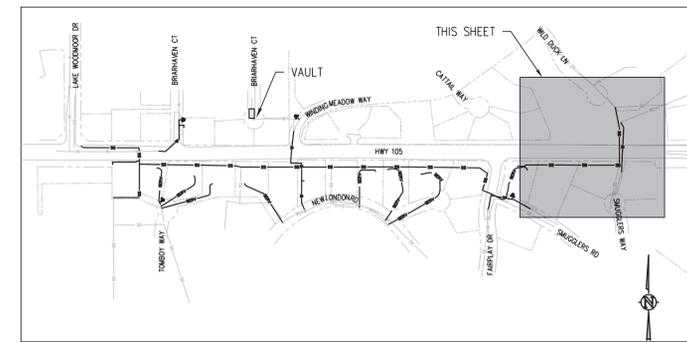
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 INITIAL GRADING AND  
 EROSION CONTROL PLAN

SHEET NO.  
**CE1.2**





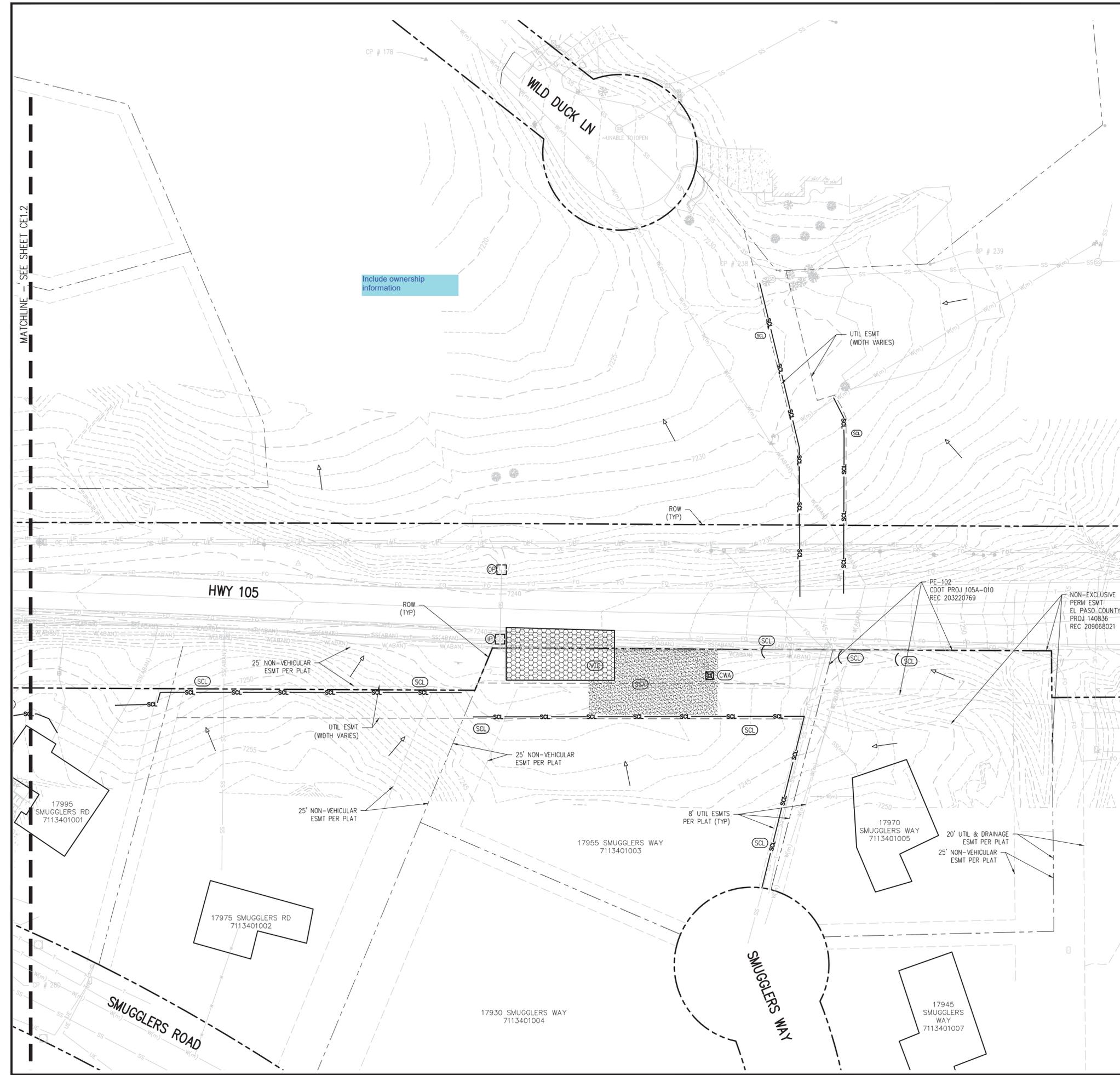
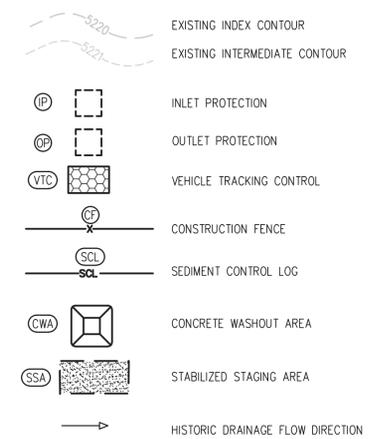
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KEY MAP  
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**EROSION CONTROL LEGEND**



include ownership information

MATCHLINE - SEE SHEET CE1.2

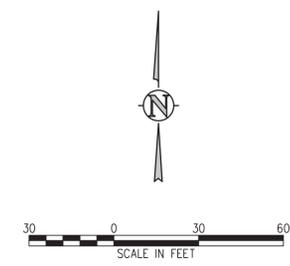
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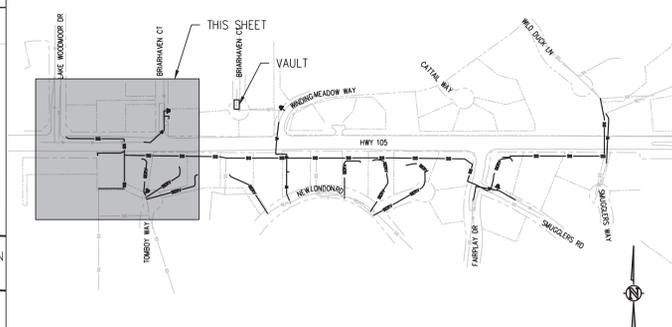
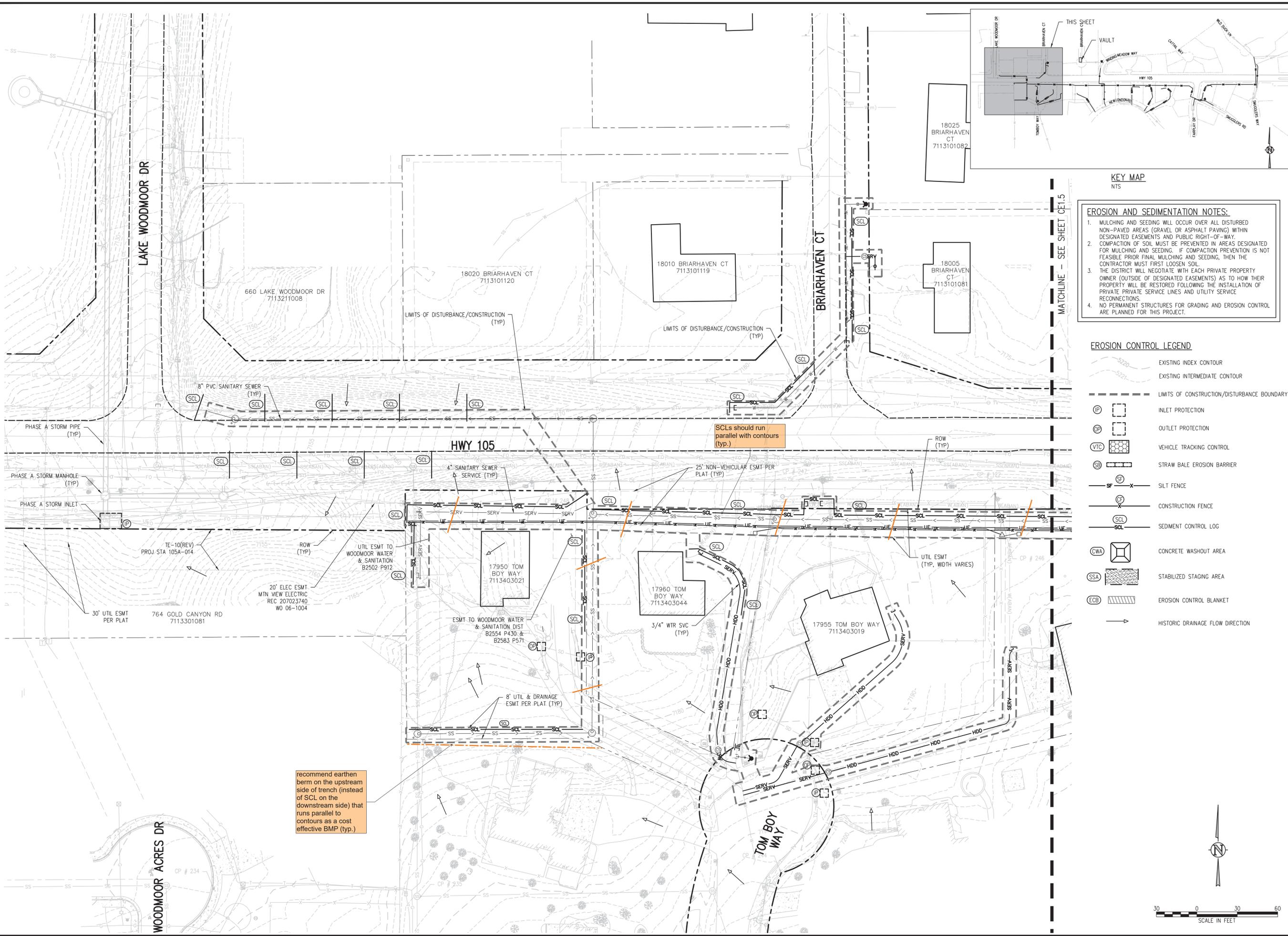


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 EL PASO COUNTY, COLORADO  
 INITIAL GRADING AND  
 EROSION CONTROL PLAN

SHEET NO.  
CE1.3





**EROSION AND SEDIMENTATION NOTES:**

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	EXISTING INTERMEDIATE CONTOUR
	LIMITS OF CONSTRUCTION/DISTURBANCE BOUNDARY
	INLET PROTECTION
	OUTLET PROTECTION
	VEHICLE TRACKING CONTROL
	STRAW BALE EROSION BARRIER
	SILT FENCE
	CONSTRUCTION FENCE
	SEDIMENT CONTROL LOG
	CONCRETE WASHOUT AREA
	STABILIZED STAGING AREA
	EROSION CONTROL BLANKET
	HISTORIC DRAINAGE FLOW DIRECTION

recommend earthen berm on the upstream side of trench (instead of SCL on the downstream side) that runs parallel to contours as a cost effective BMP (typ.)

SCLs should run parallel with contours (typ.)

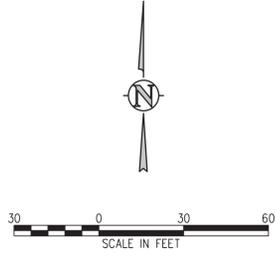
MATCHLINE - SEE SHEET CE1.5

NO. DATE DESD DWN

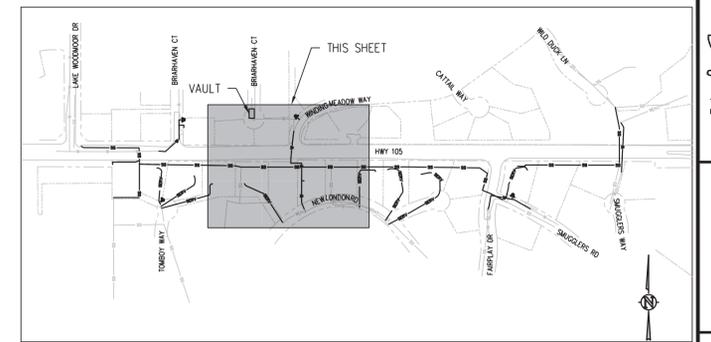


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 INTERIM GRADING AND  
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I added an X to callouts and LOD that seem to be remnants from old plans not applicable to this work. If this is not the case, please ignore

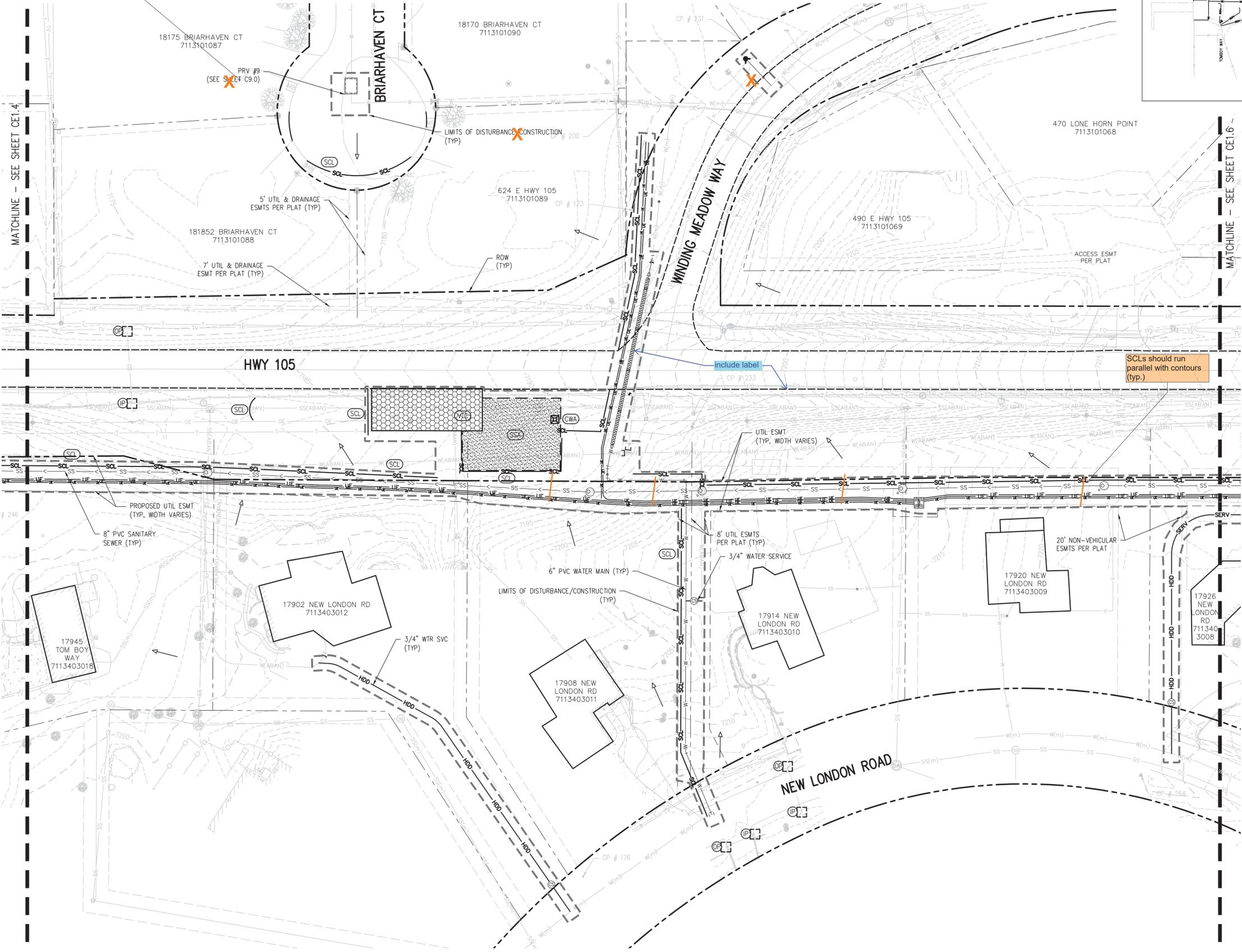


KEY MAP  
NTS

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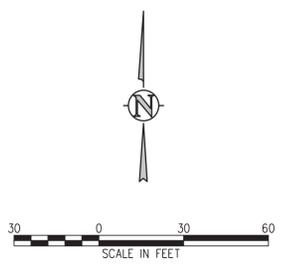
	EXISTING INDEX CONTOUR
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	HISTORIC DRAINAGE FLOW DIRECTION



SCLs should run parallel with contours (typ.)

MATCHLINE - SEE SHEET CE1.4

MATCHLINE - SEE SHEET CE1.6

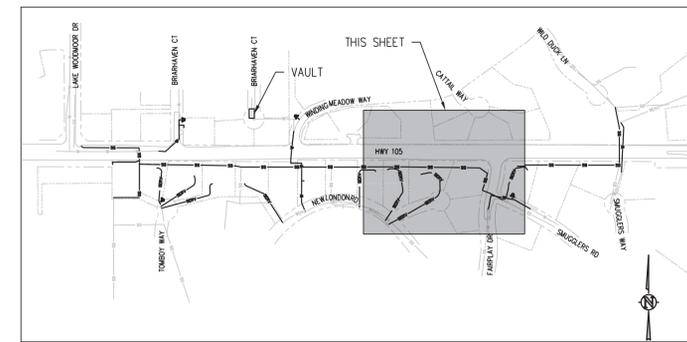


NO.	DATE	DESIGNER	DESCRIPTION



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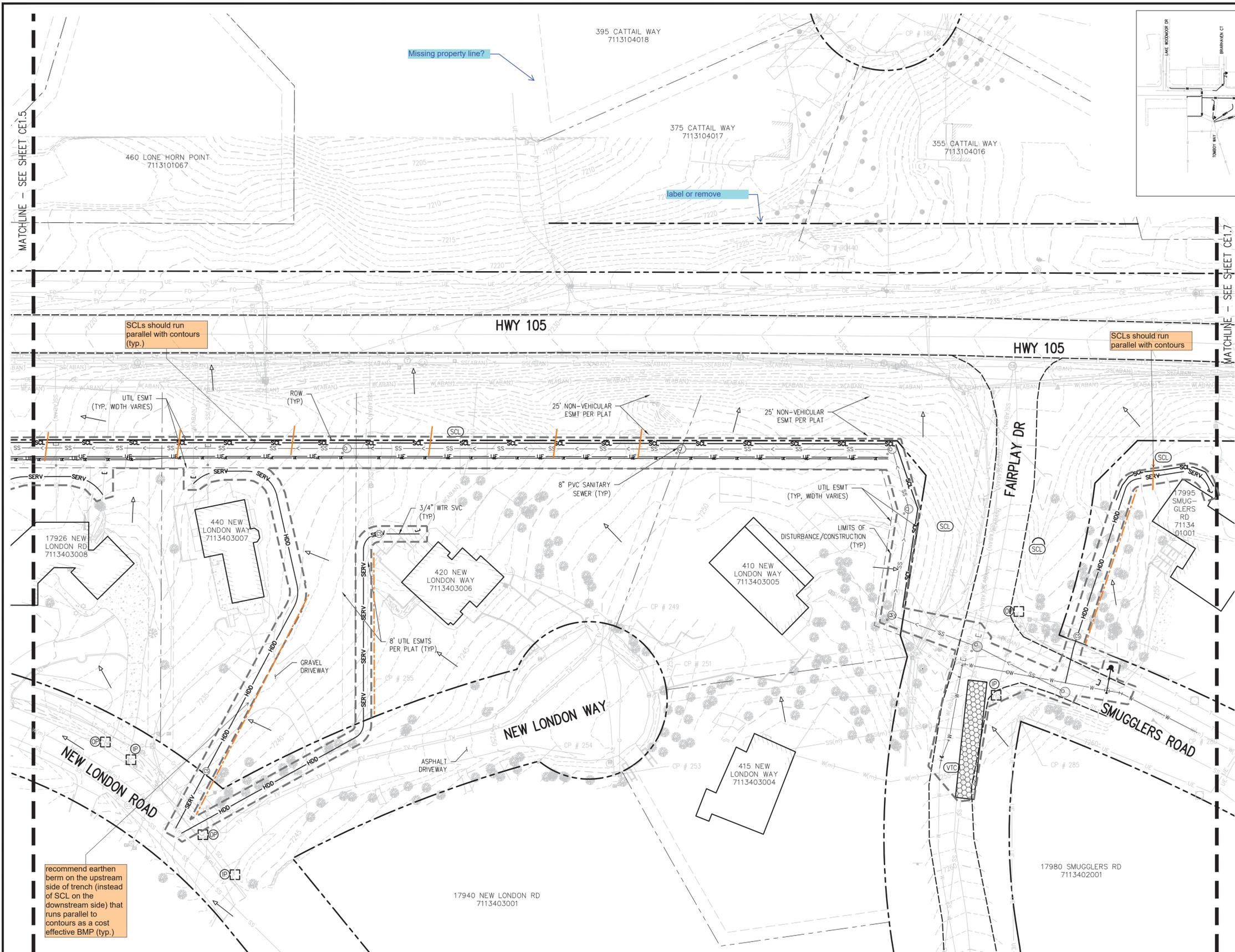


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Missing property line?

label or remove

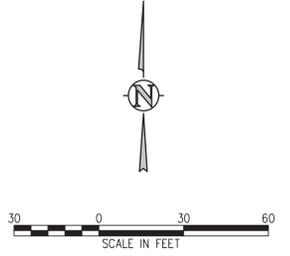
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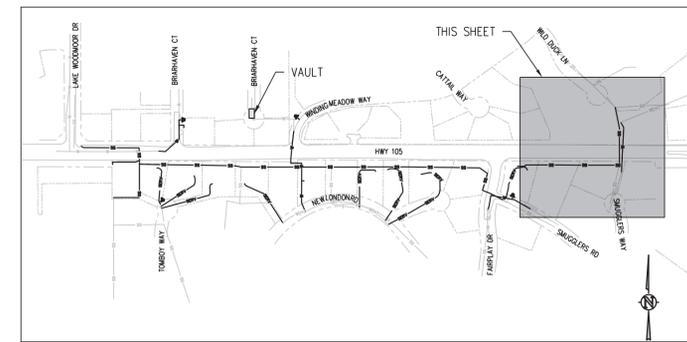
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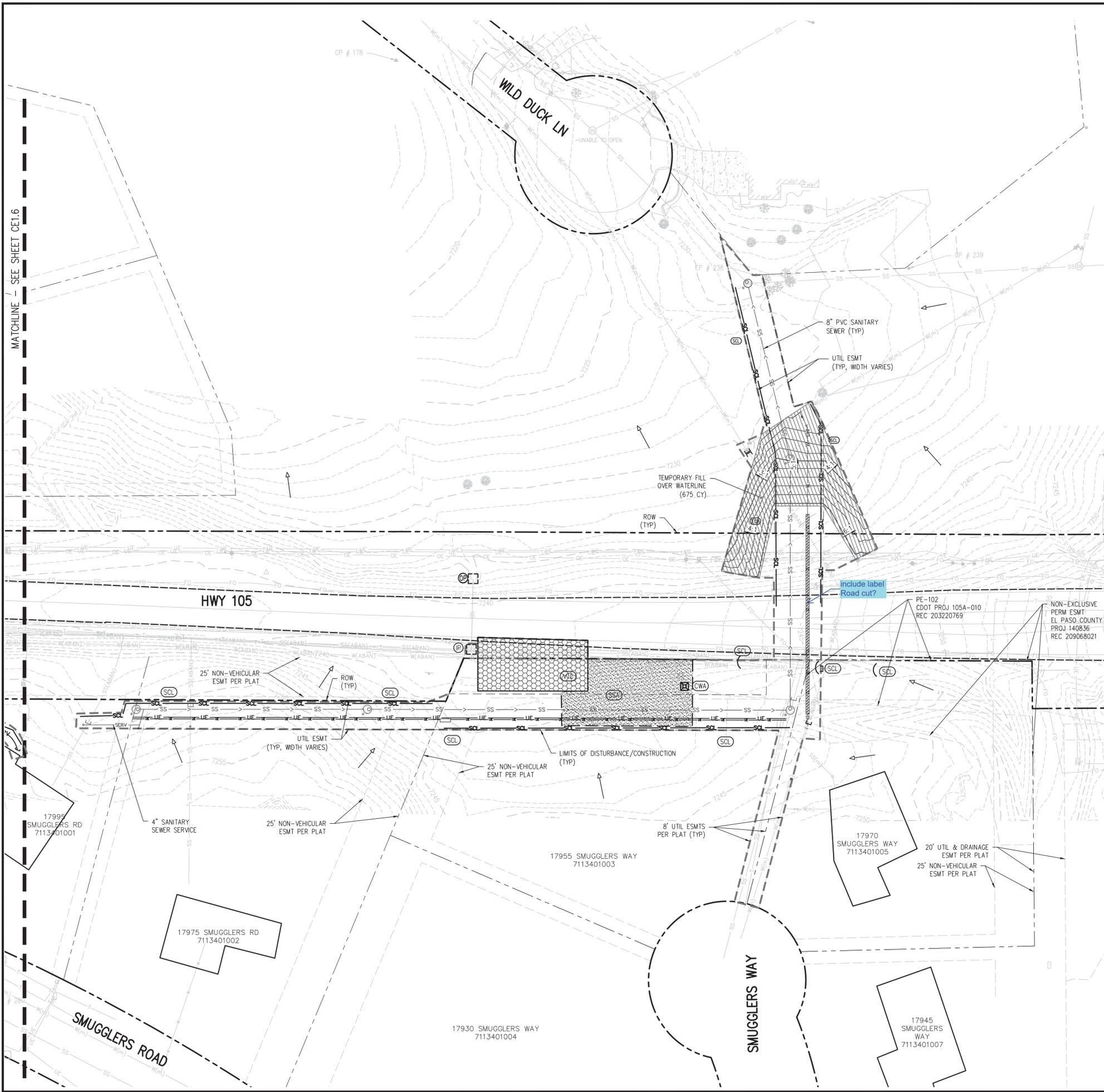


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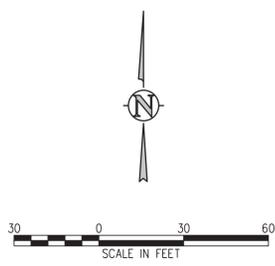
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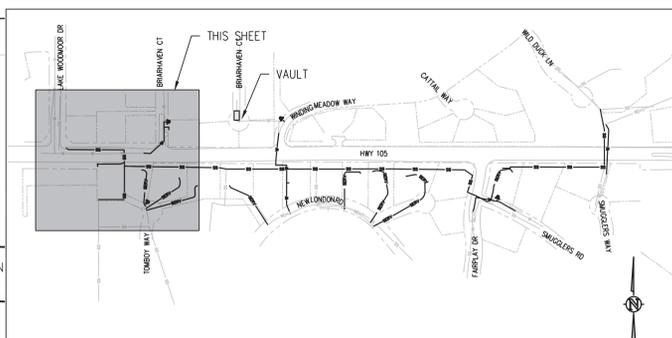
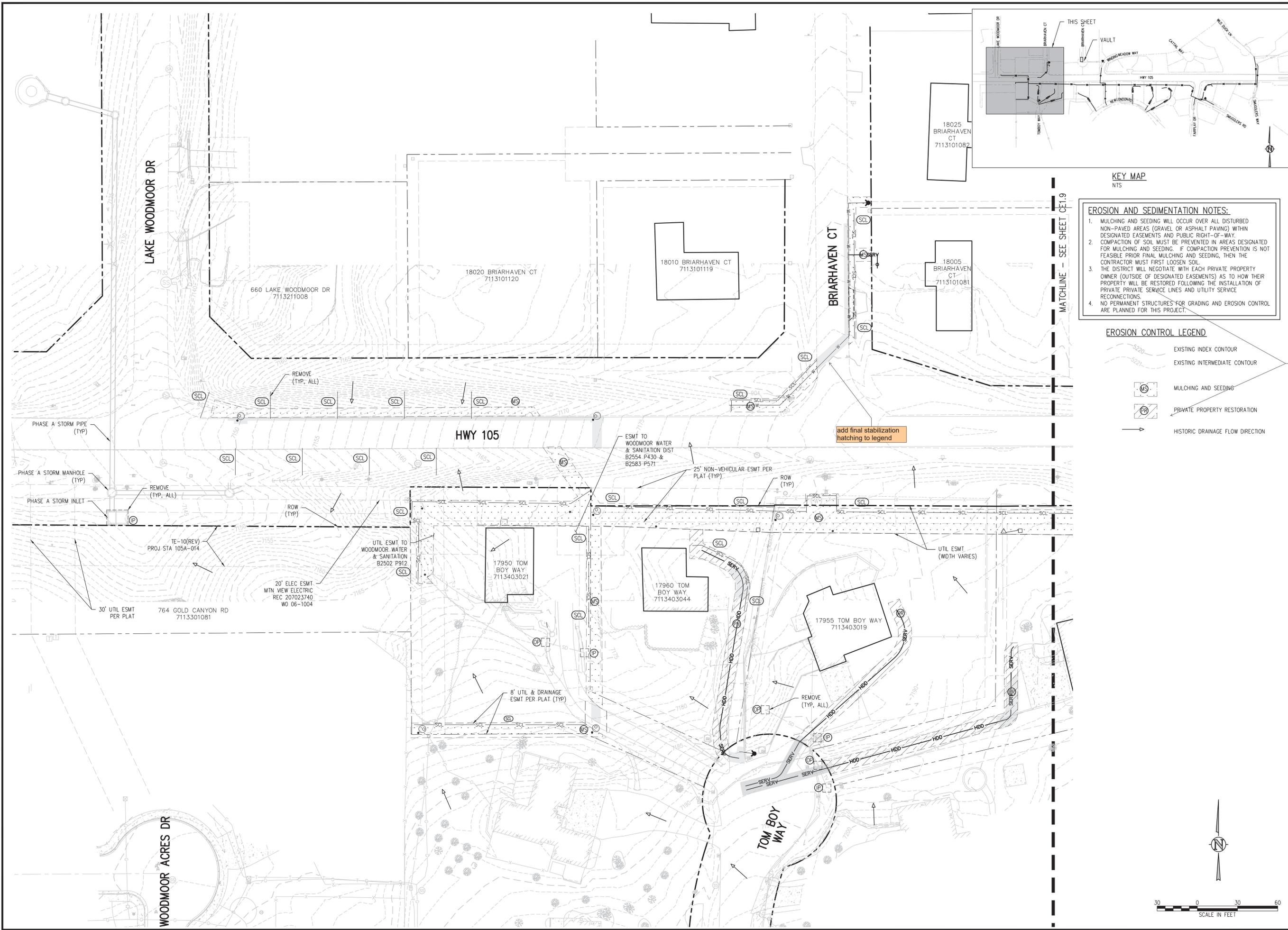


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 JOB #: 1051.14e  
 DATE: NOV 2024  
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WOODMOOR WSD NO. 1  
 HWY 105 UTILITY RELOCATION - PHASE B  
 EL PASO COUNTY, COLORADO  
 INTERIM GRADING AND  
 EROSION CONTROL PLAN

SHEET NO.  
**CE1.7**





**EROSION AND SEDIMENTATION NOTES:**

- MULCHING AND SEEDING WILL OCCUR OVER ALL DISTURBED NON-PAVED AREAS (GRAVEL OR ASPHALT PAVING) WITHIN DESIGNATED EASEMENTS AND PUBLIC RIGHT-OF-WAY.
- COMPACTION OF SOIL MUST BE PREVENTED IN AREAS DESIGNATED FOR MULCHING AND SEEDING. IF COMPACTION PREVENTION IS NOT FEASIBLE PRIOR FINAL MULCHING AND SEEDING, THEN THE CONTRACTOR MUST FIRST LOOSEN SOIL.
- THE DISTRICT WILL NEGOTIATE WITH EACH PRIVATE PROPERTY OWNER (OUTSIDE OF DESIGNATED EASEMENTS) AS TO HOW THEIR PROPERTY WILL BE RESTORED FOLLOWING THE INSTALLATION OF PRIVATE PROPERTY SERVICE LINES AND UTILITY SERVICE RECONNECTIONS.
- NO PERMANENT STRUCTURES FOR GRADING AND EROSION CONTROL ARE PLANNED FOR THIS PROJECT.

**EROSION CONTROL LEGEND**

- EXISTING INDEX CONTOUR
- EXISTING INTERMEDIATE CONTOUR
- MULCHING AND SEEDING
- PRIVATE PROPERTY RESTORATION
- HISTORIC DRAINAGE FLOW DIRECTION

REVISION DESCRIPTION

The County needs to know if the disturbance will not be stabilized similar to existing. Adding additional areas of impervious would require a drainage study.

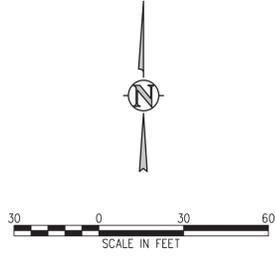
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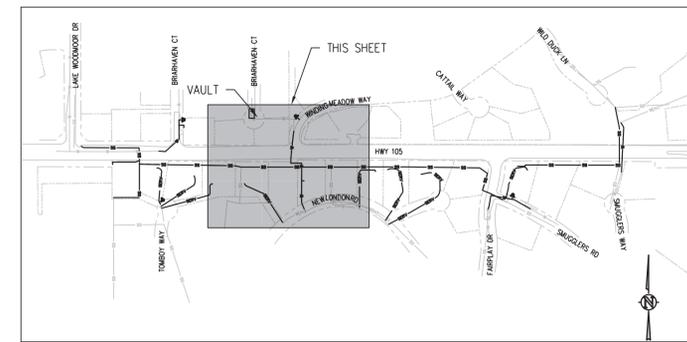
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 EL PASO COUNTY, COLORADO  
 FINAL GRADING AND  
 EROSION CONTROL PLAN

SHEET NO.  
**CE1.8**





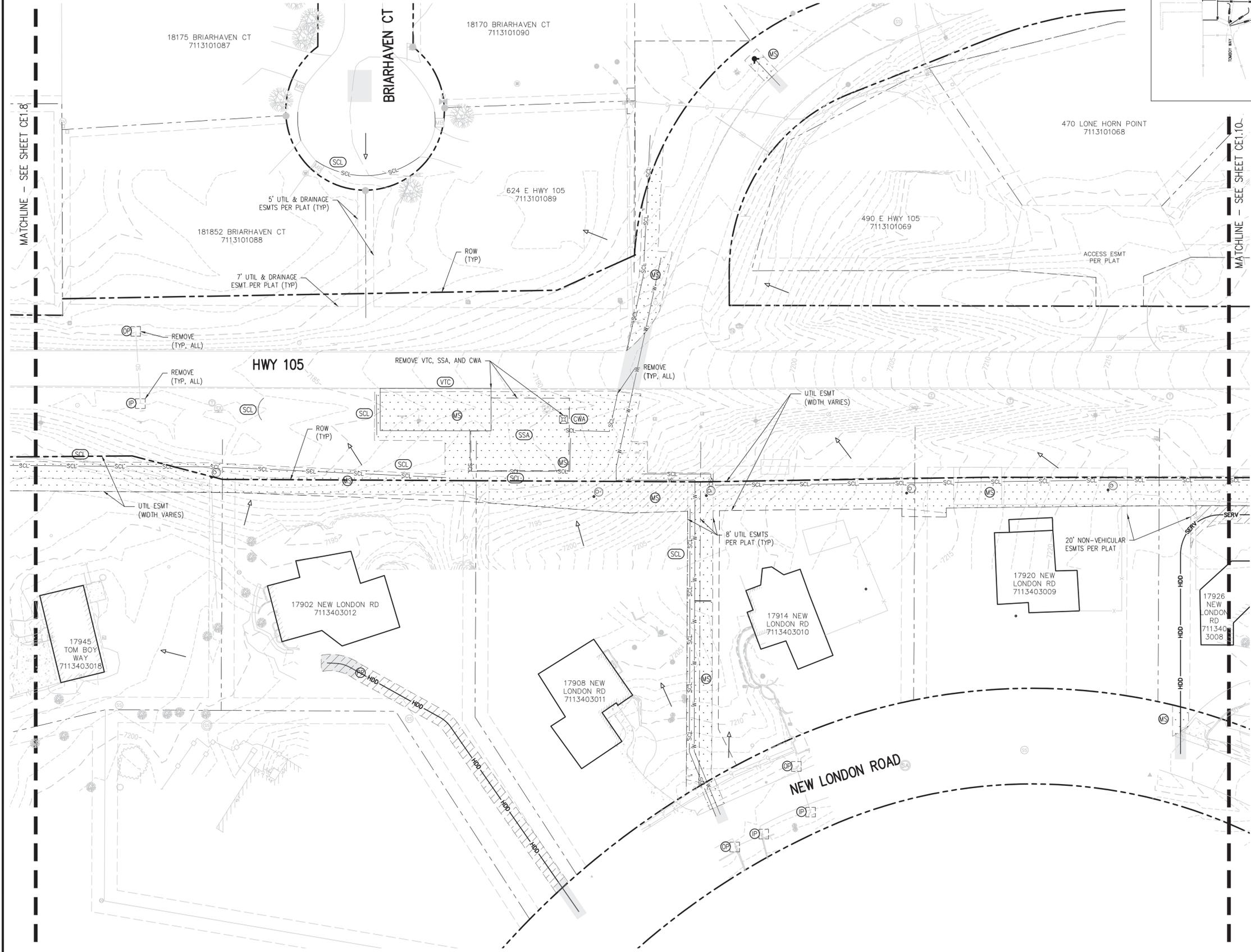
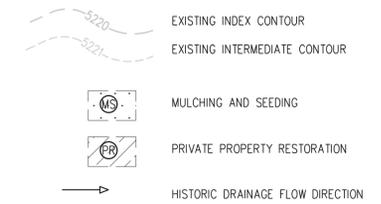
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 Denver, CO 80202 303.444.1951  
 www.jvaja.com  
 Boulder • Fort Collins • Winter Park  
 Glenwood Springs • Denver



KEY MAP  
 NTS

- EROSION AND SEDIMENTATION NOTES:**
- MULCHING AND SEEDING WILL OCCUR OVER ALL DISTURBED NON-PAVED AREAS (GRAVEL OR ASPHALT PAVING) WITHIN DESIGNATED EASEMENTS AND PUBLIC RIGHT-OF-WAY.
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  - NO PERMANENT STRUCTURES FOR GRADING AND EROSION CONTROL ARE PLANNED FOR THIS PROJECT.

**EROSION CONTROL LEGEND**



MATCHLINE - SEE SHEET CE1.8

MATCHLINE - SEE SHEET CE1.10

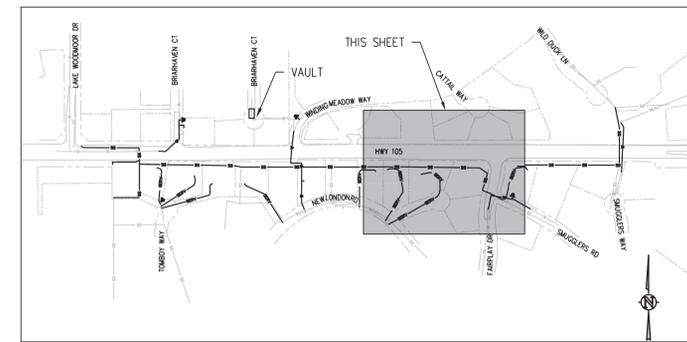
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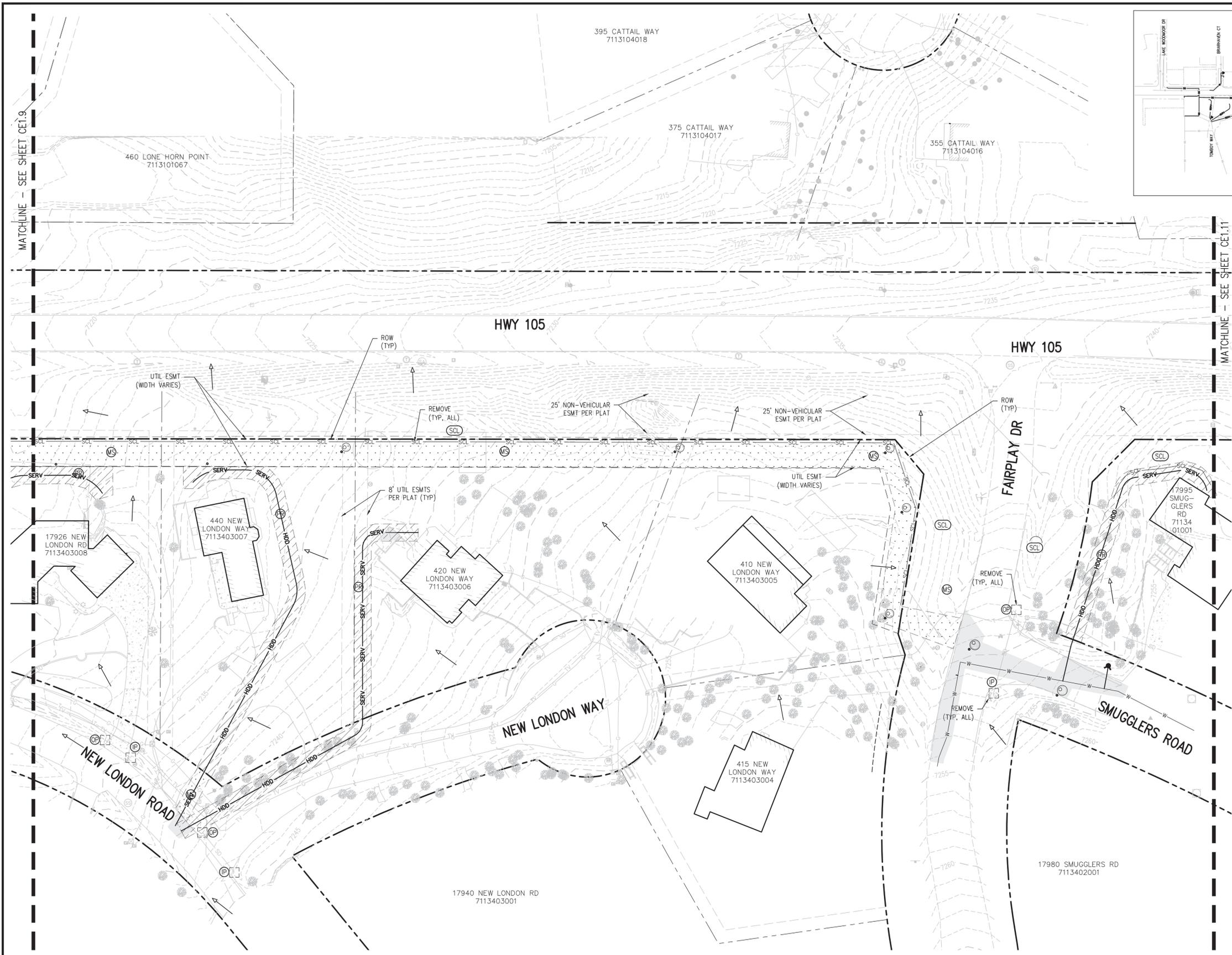
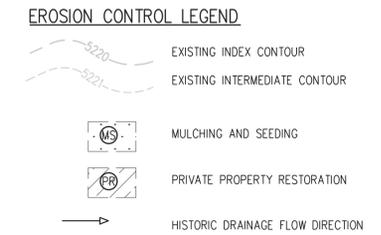
WOODMOOR WSD NO. 1  
 HWY 105 UTILITY RELOCATION - PHASE B  
 EL PASO COUNTY, COLORADO  
 FINAL GRADING AND  
 EROSION CONTROL PLAN

SHEET NO.  
**CE1.9**



**KEY MAP**  
NTS

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  - THE DISTRICT WILL NEGOTIATE WITH EACH PRIVATE PROPERTY OWNER (OUTSIDE OF DESIGNATED EASEMENTS) AS TO HOW THEIR PROPERTY WILL BE RESTORED FOLLOWING THE INSTALLATION OF PRIVATE PRIVATE SERVICE LINES AND UTILITY SERVICE RECONNECTIONS.
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MATCHLINE - SEE SHEET CE1.9

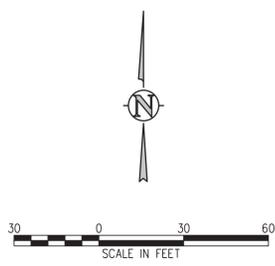
MATCHLINE - SEE SHEET CE1.11

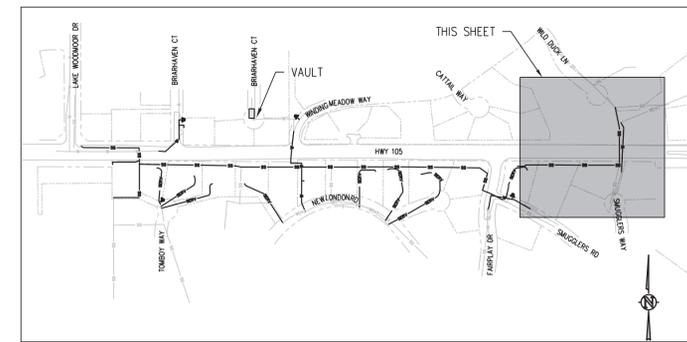
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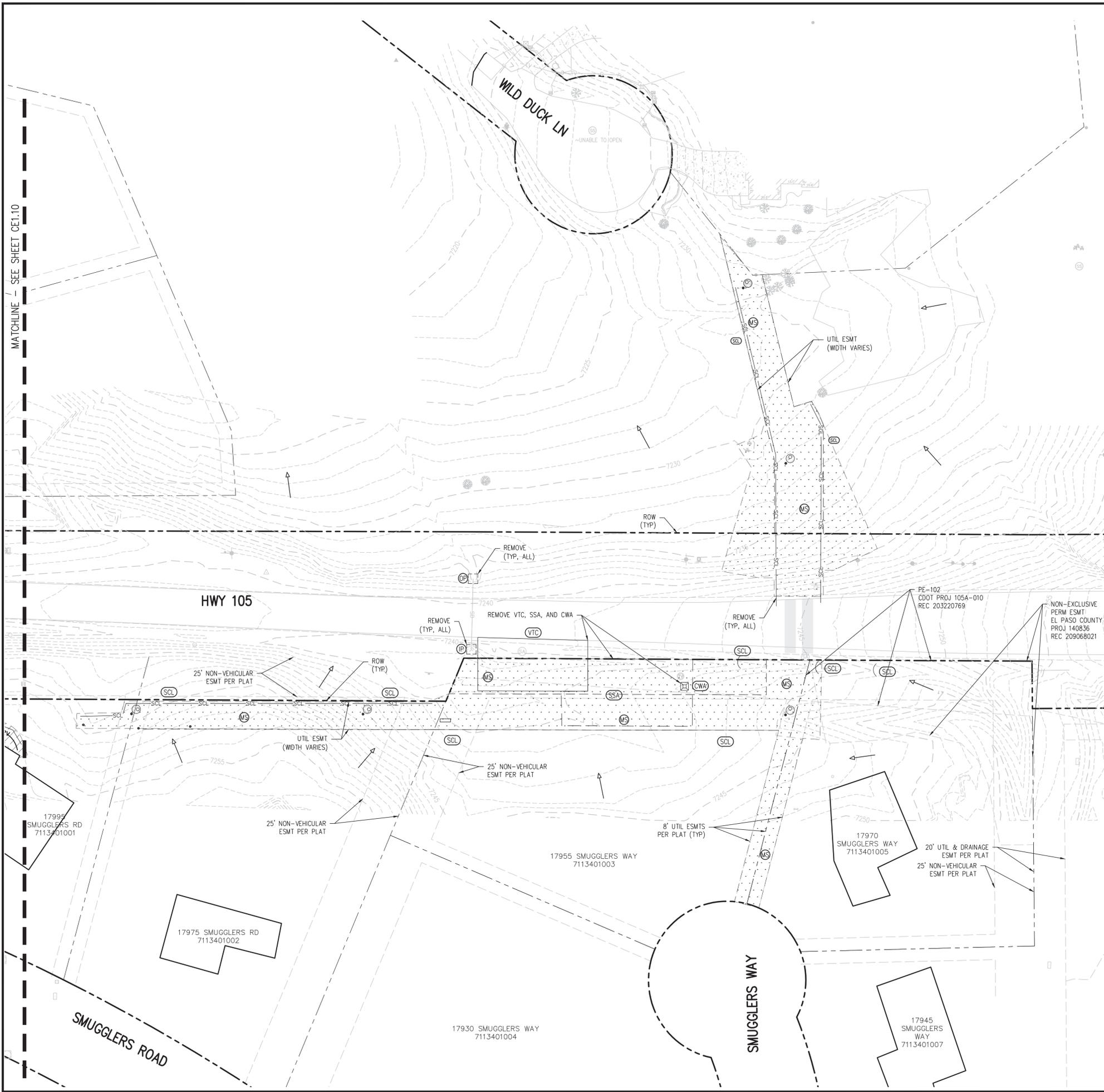
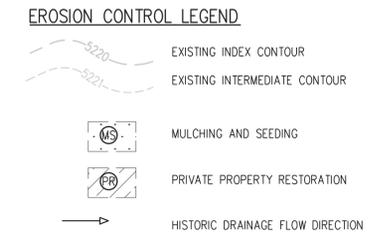
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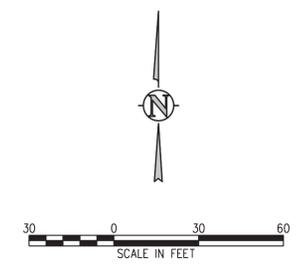


**KEY MAP**  
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MATCHLINE - SEE SHEET CE1.10



NO.	DATE	DESC	DWGN



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 EL PASO COUNTY, COLORADO  
 FINAL GRADING AND  
 EROSION CONTROL PLAN

SHEET NO.  
**CE1.11**

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

- 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 OFFSITE 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 QUALIFIED STORMWATER MANAGER OR CERTIFIED EROSION CONTROL INSPECTOR AND SHALL BE LOCATED ON SITE AT ALL TIMES DURING CONSTRUCTION AND SHALL BE KEPT UP TO DATE WITH WORK PROGRESS AND CHANGES IN THE FIELD.
- ONCE THE ESQCP IS APPROVED AND A NOTICE TO PROCEED HAS BEEN ISSUED, THE CONTRACTOR MAY INSTALL THE INITIAL STAGE EROSION AND SEDIMENT CONTROL MEASURES AS INDICATED ON THE APPROVED 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 STAFF.
- CONTROL MEASURES MUST BE INSTALLED PRIOR TO COMMENCEMENT OF ACTIVITIES THAT MAY CONTRIBUTE POLLUTANTS TO STORMWATER. TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES, OR ANY DISTURBED LAND AREA SHALL BE COMPLETED IMMEDIATELY UPON COMPLETION OF THE DISTURBANCE.
- ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SHALL BE MAINTAINED AND REMAIN IN EFFECTIVE OPERATING CONDITION UNTIL PERMANENT SOIL EROSION CONTROL MEASURES ARE IMPLEMENTED AND FINAL STABILIZATION IS ESTABLISHED. ALL PERSONS ENGAGED IN LAND DISTURBANCE ACTIVITIES SHALL ASSESS THE ADEQUACY OF CONTROL MEASURES AT THE SITE AND IDENTIFY IF CHANGES TO THOSE CONTROL MEASURES IS NEEDED TO ENSURE THE CONTINUED EFFECTIVE PERFORMANCE OF THE CONTROL MEASURES. ALL CHANGES TO TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES MUST BE INCORPORATED INTO THE STORMWATER MANAGEMENT PLAN PRIOR TO IMPLEMENTATION.
- TEMPORARY STABILIZATION SHALL BE IMPLEMENTED ON DISTURBED AREAS AND STOCKPILES WHERE GROUND DISTURBING CONSTRUCTION ACTIVITY HAS PERMANENTLY CEASED OR TEMPORARILY CEASED FOR LONGER THAN 14 DAYS. AN AREA THAT IS GOING TO REMAIN IN AN INTERIM STATE FOR MORE THAN 60 DAYS SHALL ALSO BE STABILIZED.
- FINAL STABILIZATION MUST BE IMPLEMENTED AT ALL APPLICABLE CONSTRUCTION SITES. FINAL STABILIZATION IS ACHIEVED WHEN ALL GROUND DISTURBING ACTIVITIES ARE COMPLETE AND ALL DISTURBED AREAS EITHER HAVE A UNIFORM VEGETATIVE COVER WITH INDIVIDUAL PLAN DENSITY OF 70 PERCENT OF PRE-DISTURBANCE LEVELS ESTABLISHED OR EQUIVALENT ALTERNATIVE STABILIZATION METHOD IS IMPLEMENTED. ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SHALL BE REMOVED UPON FINAL STABILIZATION AND BEFORE PERMIT CLOSURE.
- ALL PERMANENT STORMWATER MANAGEMENT FACILITIES SHALL BE INSTALLED AS DEFINED IN THE APPROVED PLANS. ANY PROPOSED CHANGES THAT EFFECT THE HYDROLOGY OR HYDRAULICS OF A PERMANENT STORMWATER MANAGEMENT STRUCTURE MUST BE APPROVED BY THE ECM ADMINISTRATOR PRIOR TO IMPLEMENTATION.
- ANY EARTH DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER SO AS TO EFFECTIVELY MINIMIZE 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. PRE-EXISTING VEGETATION SHALL BE PROTECTED AND MAINTAINED WITHIN 50 HORIZONTAL FEET OF A WATERS OF THE STATE, UNLESS INFEASIBLE.
- COMPACTION OF SOIL MUST BE PREVENTED IN AREAS DESIGNATED FOR INFILTRATION CONTROL MEASURES OR WHERE FINAL STABILIZATION WILL BE ACHIEVED BY VEGETATIVE COVER. AREAS DESIGNATED FOR INFILTRATION CONTROL SHALL ALSO BE PROTECTED FROM SEDIMENTATION DURING CONSTRUCTION UNTIL FINAL STABILIZATION IS ACHIEVED.
- ANY TEMPORARY OR PERMANENT FACILITY DESIGNED AND CONSTRUCTED FOR THE CONVEYANCE OF STORMWATER AROUND, THROUGH, OR FROM THE EARTH DISTURBANCE AREA SHALL BE A STABILIZED CONVEYANCE DESIGNED TO MINIMIZE EROSION AND THE DISCHARGE OF SEDIMENT OFF SITE.
- 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. CONCRETE WASHOUT SHALL NOT BE LOCATED IN AN AREA WHERE SHALLOW GROUNDWATER MAY BE PRESENT, OR WITHIN 50 FEET OF A SURFACE WATER BODY.
- DEWATERING OPERATIONS: UNCONTAMINATED GROUND WATER MAY BE DISCHARGED ON SITE, BUT MAY NOT LEAVE THE SITE IN THE FORM OF SURFACE RUNOFF.
- EROSION CONTROL BLANKETING IS TO BE USED ON SLOPES STEEPER THAN 3:1.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL WASTES FROM CONSTRUCTION SITES 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.
- 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. CONTROL MEASURES MAY BE REQUIRED BY EL PASO COUNTY ENGINEERING IF DEEMED NECESSARY, BASED ON SPECIFIC CONDITIONS AND CIRCUMSTANCES.
- TRACKING OF SOILS AND CONSTRUCTION DEBRIS OFF-SITE SHALL BE MINIMIZED. MATERIALS TRACKED OFF-SITE SHALL BE CLEANED UP AND PROPERLY DISPOSED OF IMMEDIATELY.
- 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 OF PETROLEUM PRODUCTS OR OTHER LIQUID CHEMICALS IN EXCESS OF 55 GALLONS SHALL HAVE ADEQUATE SECONDARY CONTAINMENT PROTECTION 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 CURB AND GUTTER OR DITCH EXCEPT WITH APPROVED SEDIMENT CONTROL MEASURES.
- OWNER/DEVELOPER AND THEIR AGENTS 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 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.
- AT LEAST (10) DAYS PRIOR TO THE ANTICIPATED START OF CONSTRUCTION, FOR PROJECTS THAT WILL DISTURB ONE (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 OF 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

## EL PASO COUNTY SELF-MONITORING INSPECTIONS

THE PERMIT HOLDER OR AUTHORIZED AGENT SHALL CONDUCT SELF-MONITORING INSPECTIONS. THE PURPOSE OF SELF-MONITORING INSPECTIONS IS FOR THE PERMIT HOLDER TO ENSURE THAT ALL BMPs ARE INSTALLED ACCORDING TO APPROVED PLANS. THE BMPs ARE ADEQUATE AND ARE BEING PROPERLY MAINTAINED. THE SWMP IS UPDATED TO REFLECT CURRENT CONDITIONS, AND ONLY ALLOWABLE DISCHARGES ARE OCCURRING OFF THE SITE. THE PERSON PERFORMING THE INSPECTIONS MAY BE ON THE PERMIT HOLDER'S STAFF OR A CONTRACTED THIRD PARTY. THE INDIVIDUAL PERFORMING THE SELF-MONITORING INSPECTIONS SHALL BE A QUALIFIED STORMWATER MANAGER, WHICH IS AN INDIVIDUAL KNOWLEDGEABLE IN THE PRINCIPLES AND PRACTICES OF EROSION AND SEDIMENT CONTROL AND POLLUTION PREVENTION AND WITH THE SKILLS TO ASSESS CONDITIONS AT CONSTRUCTION SITES THAT COULD IMPACT STORMWATER QUALITY AND THE EFFECTIVENESS OF STORMWATER CONTROLS IMPLEMENTED TO MEET STORMWATER PERMITTING REQUIREMENTS. EXAMPLES OF A QUALIFIED STORMWATER MANAGER INCLUDE A REGISTERED PROFESSIONAL ENGINEER OR AN EROSION CONTROL INSPECTOR CERTIFIED IN A REGIONALLY RECOGNIZED EROSION AND SEDIMENT CONTROL INSPECTION TRAINING PROGRAM. THE PERSON PERFORMING INSPECTIONS SHOULD BE A PERSON WITH AUTHORITY TO EXPEND PROJECT DOLLARS ON EROSION AND STORMWATER QUALITY CONTROL. THERE ARE TWO TYPES OF SELF-MONITORING INSPECTIONS ALLOWED IN EL PASO COUNTY: ROUTINE SELF-MONITORING AND OPERATOR COMPLIANCE INSPECTIONS. THE PERMIT HOLDER OR AUTHORIZED REPRESENTATIVE MAY REQUEST AN ALTERNATIVE TO THE 14 DAY ROUTINE SELF-MONITORING INSPECTION CYCLE DISCUSSED ABOVE. SELF-MONITORING INSPECTIONS OF STORMWATER BEST MANAGEMENT PRACTICES MAY BE REQUESTED FOR AT LEAST ONCE EVERY MONTH (I.E., 30 DAYS) FOR PERMITTED CONSTRUCTION SITES WHEN:

- ALL CONSTRUCTION ACTIVITY IS COMPLETED EXCEPT FINAL STABILIZATION BECAUSE PLANTED VEGETATIVE COVER HAS NOT YET BECOME ESTABLISHED;
- ALL ACTIVITIES FOR FINAL STABILIZATION HAVE BEEN COMPLETED WITH THE EXCEPTION OF SEED APPLICATION WHICH MAY NOT HAVE OCCURRED DUE TO SEASONAL CONDITIONS OR THE NECESSITY TO REAPPLY ADDITIONAL SEED TO AUGMENT PREVIOUS EFFORTS; AND
- THE SWMP HAS BEEN UPDATED TO LOCATE THOSE AREAS SUBJECT TO THE REDUCED INSPECTION FREQUENCY. ROUTINE SELF-MONITORING INSPECTIONS AFTER PRECIPITATION EVENTS ARE NOT REQUIRED DURING AN APPROVED 30 DAY INSPECTION CYCLE.

- ROUTINE SELF-MONITORING INSPECTIONS. THE ROUTINE SELF-MONITORING INSPECTIONS ARE TO BE PERFORMED AND DOCUMENTED AT LEAST ONCE EVERY 7 CALENDAR DAYS; OR AT LEAST ONCE EVERY 14 CALENDAR DAYS IF POST-STORM EVENT INSPECTIONS ARE CONDUCTED WITHIN 24 HOURS AFTER THE END OF A PRECIPITATION OR SNOW MELT EVENT. POST-STORM INSPECTIONS MAY BE USED TO FULFILL THE 14 DAY INSPECTION REQUIREMENT. IN ADDITION TO THE BI-WEEKLY INSPECTIONS THE OWNER OR REPRESENTATIVE SHALL PERFORM POST-STORM INSPECTIONS OF ALL BMPs AFTER ANY PRECIPITATION OR SNOWMELT EVENT THAT CAUSES SURFACE EROSION TO ENSURE THAT THE BMPs HAVE OPERATED AS DESIGNED, TO DETERMINE IF MAINTENANCE IS NEEDED, AND TO LOCATE AND CLEAN UP ANY AREAS WHERE MATERIALS MAY HAVE RUN OFF SITE. FOR THOSE CHOOSING TO UTILIZE A 14-DAY AND POST-STORM INSPECTION FREQUENCY, IF NO CONSTRUCTION ACTIVITIES WILL OCCUR FOLLOWING A STORM EVENT, POST-STORM INSPECTION MUST BE CONDUCTED PRIOR TO RESUMING CONSTRUCTION ACTIVITIES BUT NO LATER THAN 72 HOURS FOLLOWING A STORM EVENT. THE DELAY OF ANY POST-STORM INSPECTION MUST BE DOCUMENTED IN THE INSPECTION RECORDS INCLUDED IN THE SWMP.

THE OWNER OR HIS REPRESENTATIVE WILL RECORD THE RESULTS OF ALL INSPECTIONS BY COMPLETING AN INSPECTION REPORT OR SIMILAR INSPECTION CHECKLIST INCLUDED IN THE SWMP. COMPLETED INSPECTION REPORTS SHALL BE KEPT ON SITE AND AVAILABLE TO COUNTY INSPECTORS. THE COUNTY MAY REQUIRE THE SUBMISSION OF THESE INSPECTION REPORTS ON A SITE-SPECIFIC BASIS.

- OPERATOR COMPLIANCE INSPECTION. WHEN A COMPLIANCE INSPECTION CONDUCTED BY A COUNTY STORMWATER INSPECTOR DOCUMENTS THE FAILURE TO IMPLEMENT CONTROL MEASURES OR IMPLEMENTATION OF INADEQUATE CONTROL MEASURES, THE COUNTY STORMWATER INSPECTOR MAY REQUIRE THE ESQCP OWNER OR THEIR REPRESENTATIVE TO INSPECT AND PROVIDE A REPORT TO THE COUNTY THAT THE CONTROL MEASURES HAVE BEEN IMPLEMENTED OR CORRECTED. THE OWNER OR THE REPRESENTATIVE MUST INCLUDE DATE AND TIME STAMPED PHOTOGRAPHS OF THE NEW, ADEQUATE CONTROL MEASURES.

## MULCHING AND SEEDING NOTES FOR EL PASO COUNTY

- ALL DISTURBED AREAS MUST BE MULCHED WITHIN 21 DAY AFTER FINAL GRADE AND SEEDED AREAS ARE TO BE MULCHED WITH 24 HOURS AFTER SEEDING.
- MATERIAL USED FOR MULCH CAN BE CERTIFIED CLEAN, WEED- AND SEED-FREE LONG STEMMED FIELD OR MARSH HAY, OR STRAW OF OATS, BARLEY, WHEAT, RYE OR TRITICALE CERTIFIED BY THE COLORADO DEPARTMENT OF AGRICULTURE WEED FEE FORAGE CERTIFICATION PROGRAM.
- HYDRAULIC MULCHING MATERIAL SHALL CONSIST OF VIRGIN WOOD FIBER MANUFACTURED FORM CLEAN WHOLE WOOD CHIPS. WOOD CHIPS CANNOT CONTAIN ANY GROWTH OR GERMINATION INHIBITORS OR BE PRODUCED FROM RECYCLED WATER. GRAVEL CAN ALSO BE USED.
- MULCH IS TO BE APPLIED EVENLY AT THE RATE OF 2 TONS PER ACRE.
- MULCH TO BE ANCHORED EITHER BY CRIMPING (TUCKING MULCH FIBERS 4 INCHES INTO THE SOIL), USING NETTING (USED IN SMALL AREAS WITH STEEP SLOPES), OR WITH TACKIFIER.
- HYDRAULIC MULCHING AND TACKIFIERS ARE NOT TO BE USED IN THE PRESENCE OF FREE SURFACE WATER.

## EL PASO COUNTY CONSERVATION DISTRICT SHOTGUN MIX

COMMON NAME	RECOMMENDED VARIETY	% OF SEED MIX	PLS/ACRE
BLUESTEM, BIG	KAW, BISON, CHAMP	20	1.08
LITTLE BLUESTEM	SCHIZACHYRIUM SCOPARIUM	10	0.12
GREEN NEEDLEGRASS	LOODORM	10	0.48
WHEATGRASS, WESTERN	ARRIBA, BARTON	20	1.60
GRAMA, SIDEOATS	VAUGHN, BUTTE, EL RENO, NINER	10	0.46
SWITCHGRASS	BLACKWELL, GREENVILLE	10	0.20
PRAIRIE SANDREED	GOSHEN, PRONGHORN	10	0.32
YELLOW INDIANGRASS	CHEYENNE, HOLT, LLANO	10	0.51

## STORMWATER MANAGEMENT PLAN (SWMP)

THIS STORMWATER MANAGEMENT PLAN IS TO BE RETAINED AND MAINTAINED ONSITE INCLUDING FINAL LANDSCAPING PLANS AND ANY OTHER EROSION CONTROL DOCUMENTATION. A SWMP ADMINISTRATOR WILL BE DESIGNATED BY THE CONTRACTOR AND IS RESPONSIBLE FOR DEVELOPING, IMPLEMENTING, MAINTAINING, AND REVISING THIS SWMP. THE SWMP ADMINISTRATOR IS THE CONTACT FOR ALL SWMP-RELATED ISSUES AND IS RESPONSIBLE FOR ITS ACCURACY, COMPLETENESS, AND IMPLEMENTATION. THE FOLLOWING HAS BEEN DESIGNATED AS THE SWMP ADMINISTRATOR FOR THIS PROJECT:

NAME: \_\_\_\_\_  
 CONTACT INFO: \_\_\_\_\_

THE SITE IS LOCATED WITHIN AND ADJACENT TO HIGHWAY 105 FROM LAKE WOODMOOR DRIVE TO WILD DUCK LANE, AND AT APPROXIMATELY 39° 05' 35" LATITUDE, 104° 50' 25" LONGITUDE. THE PROPOSED PROJECT CONSISTS OF WATER AND SEWER INFRASTRUCTURE, ASPHALT PATCHING, CONCRETE REPLACEMENT, VEGETATIVE COVER REPLACEMENT, AND ELECTRICAL LINE CONSTRUCTION IN EL PASO COUNTY. THE TOTAL SITE AREA IS APPROXIMATELY 2.65 ACRES WITH AT TOTAL DISTURBANCE OF 2.52 ACRES. NO AREAS GREATER THAN 40 ACRES SHALL BE DISTURBED AT ANY GIVEN TIME. NO CONSTRUCTION ACTIVITIES SHALL OCCUR OFFSITE OR OUTSIDE OF THE CONSTRUCTION LIMITS SHOWN ON THE CONSTRUCTION DOCUMENTS. THE SEQUENCE OF CONSTRUCTION STARTS IS AS FOLLOWS:

PHASE	ESTIMATED	ACTUAL
CONSTRUCTION START	APRIL, 2025	_____
UTILITY INSTALLATION	MAY, 2025	_____
SITE RESTORATION	DECEMBER, 2025	_____

THE EXISTING SITE CONSISTS OF DEVELOPED LAND, NATIVE GRASSLAND, AND VEGETATION AND IS APPROXIMATELY 80% COVERED WITH VEGETATIVE GROUND COVER. THIS WAS CALCULATED USING SATELLITE IMAGERY AND THE VEGETATION IS TO BE MINIMUM 70% OF PRE-DISTURBED LEVELS.

OFFSITE RUNOFF FLOWS ONTO THE PROJECT SITE FROM SOUTH OF HIGHWAY 105. ONSITE RUNOFF FLOWS ARE TO THE NORTH AND WEST AND IS ULTIMATELY DISCHARGED INTO WOODMOOR LAKE. NO WATER IS DETAINED ON SITE AND ALL RUNOFF LEAVES THE SITE TO THE NORTH AND WEST. NO STREAMS CROSS THE PROJECT AREA.

POTENTIAL CONSTRUCTION POLLUTION SOURCES SUCH AS VEHICLE FUELING, STORAGE OF FERTILIZER OR CHEMICALS, VEHICLE WASHING, WASTE INCINERATION, HAUL-ROADS, LOADING/ UNLOADING AREAS ARE LOCATED WITHIN THE TWO STABILIZED STAGING AREAS LOCATED ON THE SOUTH SIDE OF HIGHWAY 105 B NEAR WINDING MEADOW WAY AND SMUGGLERS WAY.

### BEST MANAGEMENT PRACTICES FOR STORMWATER MANAGEMENT

NON STRUCTURAL BMPs WILL BE IMPLEMENTED TO THE MAXIMUM EXTENT POSSIBLE. THE UTILIZATION OF NON STRUCTURAL BMPs WILL BE AN ONGOING PROCESS DIRECTED AT PREVENTING EROSION. THE NON STRUCTURAL BMPs WILL RECEIVE CONTINUOUS EMPHASIS THROUGHOUT CONSTRUCTION BECAUSE THEY AVERT PROBLEMS BEFORE THEY OCCUR AND REDUCE THE NEED FOR STRUCTURAL BMPs. NON STRUCTURAL BMPs WILL CONSIST PRIMARILY OF PRESERVATION OF EXISTING MATURE VEGETATION AND TREES, PLANNING AND SCHEDULING CONSTRUCTION ACTIVITIES AIMED AT ACHIEVING THE GOAL OF MINIMIZING EROSION. FURTHERMORE, CONSTRUCTION PERSONNEL WILL BE INSTRUCTED AND SUPERVISED IN CONSTRUCTION METHODS CONSISTENT WITH EROSION PREVENTION PRACTICES.

PLANNED STRUCTURAL BMPs FOR EROSION AND SEDIMENT CONTROL ARE SHOWN ON THE GRADING, EROSION AND SEDIMENTATION CONTROL PLAN. IMPLEMENTING THESE MEASURES SHOULD MINIMIZE NUISANCE SILT AND SEDIMENTATION EXITING THE SITE AND PREVENT CLOGGING EXISTING STORM SEWERS AND STREET GUTTERS.

APPLICATION OF THESE BMPs FOR STORMWATER MANAGEMENT ARE FOR CONSTRUCTION PERIODS AND ARE CONSIDERED TEMPORARY. POST-DEVELOPMENT STORMWATER MANAGEMENT IS PROVIDED THROUGH VEGETATED LANDSCAPED AREAS, GRASSED SWALES, RIPRAP PROTECTION, AND THE EXISTING STORM COLLECTION SYSTEM.

### VEHICLE TRACKING CONTROL (VTC):

STABILIZED CONSTRUCTION ENTRANCES WILL BE PROVIDED AT FAIRPLAY DRIVE AND HIGHWAY 105 NEAR WINDING MEADOW WAY AND NEAR SMUGGLERS WAY. THE CONSTRUCTION ACCESS AND PARKING WILL BE GRADED AND COVERED WITH A CRUSHED STONE BASE COURSE DURING CONSTRUCTION. THE VEHICLE TRACKING CONTROL WILL BE RELOCATED WITH THE CONSTRUCTION ACCESS AS NECESSARY.

### SILT FENCING (SF) AND SEDIMENT CONTROL LOGS (SCL):

SILT FENCING AND SEDIMENT CONTROL LOGS SHALL BE INSTALLED WITH RESPECT TO PROPOSED DRAINAGE PATTERNS. SILT FENCE AND SEDIMENT CONTROL LOGS SHALL BE CONSTRUCTED ALONG THE DOWNSTREAM SIDE OF OPEN TRENCHES AND ALONG ANY DRAINAGE AREAS SUBJECT TO EROSION. THE SILT FENCING AND SEDIMENT CONTROL LOGS SHALL BE INSTALLED AT THE DOWNHILL SIDE OF THE EXISTING SLOPES ACROSS THE SITE AND AT ALL POINT DISCHARGE AREAS WHETHER SHOWN OR NOT. SILT FENCE AND SEDIMENT CONTROL LOGS SHALL BE MAINTAINED AS NEEDED THROUGHOUT THE CONSTRUCTION PROCESS. THE TEMPORARY SILT FENCE AND SEDIMENT CONTROL LOGS WILL REMAIN UNTIL THE STORM SEWER STRUCTURES ARE COMPLETED AND GROUND COVER IS EFFECTIVE.

### INLET PROTECTION (IP):

THE INLET PROTECTION WILL BE INSTALLED AS THE STORM SEWER STRUCTURES ARE CONSTRUCTED. EACH INLET ON THE PROPOSED STORM SEWER SYSTEM WILL HAVE A TEMPORARY INLET SEDIMENT TRAP CONSTRUCTED AROUND IT. IN PAVED AREAS, THIS TRAP CONSISTS OF WIRE MESH SOCKS AND CONCRETE BLOCKS TO FILTER THE STORM RUNOFF AND ALLOW ANY SILT TO SETTLE OUT. IN FIELDS OR LANDSCAPED AREAS THIS TRAP CONSISTS OF WIRE MESH SOCKS.

### STRAW BALE DROP STRUCTURES DAMS (SB):

STRAW BALE BARRIERS WILL BE INSTALLED TO PROTECT THE PROPOSED SWALE(S) PRIOR TO LANDSCAPING THE SITE. THESE BARRIERS WILL REDUCE THE FLOW VELOCITY IN THE SWALE(S) AND ALLOW THE DISTURBED SOIL TO SETTLE OUT.

### OUTLET PROTECTION (OP):

THE STORM SEWER OUTLETS WILL BE PROTECTED WITH RIPRAP. PLACING RIPRAP AT PIPE OUTFALLS REDUCES EXIT VELOCITIES AND REDUCES SCOUR. THIS RIPRAP WILL BE LEFT IN PLACE AS PART OF THE PERMANENT STORMWATER MANAGEMENT PLAN.

### EROSION CONTROL BLANKET (ECB):

EROSION CONTROL BLANKETS WILL BE INSTALLED TO MITIGATE EROSION ON AREAS WHERE GRADING IS ADDED AND THE SLOPE IS STEEPER THAN 3:1.

### OVERLOT GRADING:

ALL OPEN AREAS WILL BE TREATED WITHIN 14 DAYS OF COMPLETION OF THE OVERLOT GRADING. ALL OVERLOT GRADING IN THE NON-IRRIGATED AREAS WILL HAVE THE SURFACE ROUGHENED AND WILL BE PERMANENTLY LANDSCAPED OR TEMPORARILY SEEDED UNTIL THE PLANNED INSTALLATIONS ARE COMPLETED. AT THE COMPLETION OF THE MASS GRADING, ALL EXPOSED SOIL AREAS WILL HAVE THE SURFACE ROUGHENED AND PLANTED WITH A REVEGETATION SEED MIX. VEGETATION IS TO BE MAINTAINED THROUGHOUT CONSTRUCTION BY THE CONTRACTOR UNTIL AREAS ARE PERMANENTLY LANDSCAPED. ALTERNATELY, ROUGH-CUT DRIVEWAYS OR PROPOSED PAVED AREAS CAN BE COVERED WITH A LAYER OF AGGREGATE, ROAD BASE OR ASPHALT PAVING.

### DUST CONTROL MEASURES:

DISTURBED AREAS NOT YET READY TO BE SEEDED, LANDSCAPED, PAVED, OR OTHERWISE STABILIZED SHALL BE WATERED, OR RIPPED AS NECESSARY TO PRECLUDE VISIBLE DUST EMISSIONS.

ITEMS ARE SCHEDULED TO BE IMPLEMENTED ACCORDING TO THE CONSTRUCTION SCHEDULE. AS WORK PROCEEDS, IMPLEMENTATION OF INDIVIDUAL BMPs IS TO COINCIDE WITH THE CONSTRUCTION THEREBY MINIMIZING THE EXPOSURE OF UNPROTECTED AREAS. THE SILT FENCE, INLET PROTECTION (FOR EXISTING INLETS), AND GRAVELING OF THE CONSTRUCTION ENTRANCE WILL BE PERFORMED WHEN THE GRADING BEGINS. THE INLET PROTECTION WILL BE INSTALLED AS THE STORM SEWER STRUCTURES ARE CONSTRUCTED. THE RIPRAP PROTECTION WILL BE INSTALLED AS THE STORM SEWER OUTFALLS OR CULVERTS ARE CONSTRUCTED. THE STRUCTURAL BMPs THAT DO NOT BECOME PART OF THE PERMANENT STORMWATER MANAGEMENT PLAN ARE TO BE REMOVED, AS THE PAVING, LANDSCAPING, AND OTHER PERMANENT GROUND COVER INSTALLATIONS ARE COMPLETED. FUGITIVE DUST EMISSIONS RESULTING FROM GRADING ACTIVITIES AND/OR WIND SHALL BE CONTROLLED USING THE BEST AVAILABLE CONTROL TECHNOLOGY AS DEFINED BY THE COLORADO DEPARTMENT OF HEALTH AT THE TIME OF GRADING. THE GRAVELING IS TO BE MAINTAINED AND EXTENDED CONSTRUCTION PROGRESSES ESPECIALLY AROUND THE BUILDING SITE. THE STRUCTURAL BMPs ARE TO BE REMOVED, AS THE PERMANENT LANDSCAPING INSTALLATIONS ARE COMPLETED.

### MATERIALS AND SPILL PREVENTION:

THE CONTRACTOR WILL STORE CONSTRUCTION MATERIALS AND EQUIPMENT IN CONFINED AREAS ON SITE FROM WHICH RUNOFF WILL BE CONTAINED AND FILTERED. MATERIALS WILL BE STORED OFF THE GROUND AND PROTECTED FROM THE WEATHER BY A COVER OR STORED IN A CONTAINER SUCH AS A VAN OR TRAILER. AN EARTHEN DIKE WILL BE CONSTRUCTED AROUND THE PERIMETER OF THE FUEL STORAGE AREA TO PREVENT MATERIALS FROM CONTACT WITH SURFACE RUNOFF. EQUIPMENT MAINTENANCE WILL BE PERFORMED IN A DESIGNATED AREA AND STANDARD MAINTENANCE PROCEDURES, SUCH AS THE USE OF DRIP PANS, WILL BE USED TO CONTAIN PETROLEUM PRODUCTS.

### INSPECTION AND MAINTENANCE:

THE EROSION CONTROL MEASURES WILL BE INSPECTED DAILY DURING CONSTRUCTION BY THE CONTRACTOR AND AFTER EACH RAIN EVENT. ALL INSPECTIONS SHALL BE DOCUMENTED AND SHALL INCLUDE THE DATE OF INSPECTION, ANY INCIDENCE OF NON-COMPLIANCE, SIGNED CERTIFICATION THAT THE SITE IS IN COMPLIANCE, AND ANY NOTES, DRAWINGS, MAPS, ETC. PERTAINING TO REPAIRS. COPIES OF ALL DOCUMENTATION SHALL BE DISTRIBUTED TO MUNICIPALITIES AND OWNER ON A REGULAR BASIS AS SPECIFIED BY OWNER. SILT FENCE AND STRAW BALE BARRIERS WILL BE CHECKED FOR UNDERMINING AND BYPASS AND REPAIRED OR EXPANDED AS NEEDED. SEDIMENT SHOULD BE REMOVED FROM INLET FILTERS AND SILT FENCING BEFORE ONE HALF OF THE DESIGN DEPTH HAS BEEN FILLED. SEDIMENTS DEPOSITED IN THE PUBLIC RIGHTS-OF-WAY WILL BE REMOVED IMMEDIATELY. THE TEMPORARY VEGETATION OF BARE SOILS WILL BE CHECKED REGULARLY AND AREAS WHERE IT IS LOST OR DAMAGED WILL BE RESEEDED. AT MINIMUM THE CONTRACTOR OR HIS AGENT SHALL INSPECT ALL BMPs EVERY 14 DAYS AND AFTER SIGNIFICANT PRECIPITATION OR SNOWMELT EVENTS. INSTALLATIONS AND MODIFICATIONS AS REQUIRED BY THE COUNTY WILL BE IMPLEMENTED WITHIN 48 HOURS OF NOTIFICATION. CONTRACTOR SHALL REMOVE TEMPORARY EROSION CONTROL MEASURES AND REPAIR AREAS AS REQUIRED AFTER VEGETATION IS ESTABLISHED AND ACCEPTED BY OWNER AND MUNICIPALITY.

THE EROSION AND SEDIMENT CONTROL PLAN MAY BE MODIFIED BY THE DEPARTMENT OF HIGHWAYS AND TRANSPORTATION, OWNER'S ENGINEER, COUNTY ENGINEERING INSPECTORS OR THE MUNICIPALITY OR ITS AUTHORIZED REPRESENTATIVE AS FIELD CONDITIONS WARRANT. ALL INSPECTION LOGS ARE TO BE SIGNED AND KEPT ON SITE ALONG WITH ALL SWMP RECORDS.

### FINAL STABILIZATION AND LONG-TERM STORMWATER QUALITY:

FINAL STABILIZATION IS REACHED WHEN ALL SOIL DISTURBING ACTIVITIES AT THE SITE HAVE BEEN COMPLETED, AND UNIFORM VEGETATIVE COVER HAS BEEN ESTABLISHED WITH A DENSITY OF AT LEAST 70% OR PRE-DISTURBANCE LEVELS OR EQUIVALENT PERMANENT, PHYSICAL EROSION REDUCTION METHODS HAVE BEEN EMPLOYED. FINAL STABILIZATION WILL BE ACHIEVED USING SOD, NATIVE SEEDING, PERMANENT BMPs, AND OTHER METHODS. CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL STABILIZATION REGARDLESS OF ACCEPTANCE BY OWNER OF THE CONTRACTOR ITEM.

### EROSION POTENTIAL FROM THE SITE:

DRAINAGE FROM THE SITE IS PRIMARILY SURFACE RUNOFF. THEREFOR BMPs ARE PRIMARILY SURFACE ORIENTED AND ARE INTENDED TO PROMOTE SHEET FLOW FROM THE SITE ALONG HISTORIC DRAINAGE PATTERNS. BMPs SHALL BE IN PLACE TO RESTRICT EROSION AS REQUIRED. AS THERE ARE NO PERCEIVED, CONCENTRATED DISCHARGES FROM THE SITE, NO FORMAL SEDIMENT LOAD CALCULATIONS WERE PERFORMED.



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REVISION DESCRIPTION  
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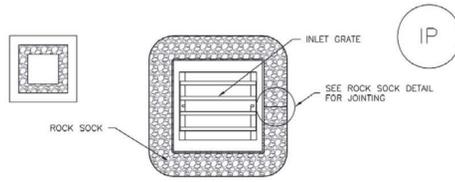


DESIGNED BY: ZCF/JGJ  
 DRAWN BY: ZCF/JGJ  
 CHECKED BY: RAH/JJM  
 JOB #: 1051.14e  
 DATE: NOV 2024  
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WOODMOOR WSD NO. 1  
 HWY 105 UTILITY RELOCATION - PHASE B  
 EL PASO COUNTY, COLORADO  
 SWMP & EROSION CONTROL NOTES

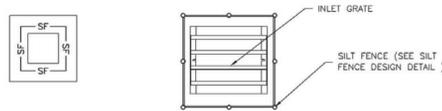
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**Inlet Protection (IP) SC-6**



**IP-3. ROCK SOCK SUMP/AREA INLET PROTECTION**

**ROCK SOCK SUMP/AREA INLET PROTECTION INSTALLATION NOTES**  
1. SEE ROCK SOCK DESIGN DETAIL FOR INSTALLATION REQUIREMENTS.  
2. STRAW WATTLES/SEDIMENT CONTROL LOGS MAY BE USED IN PLACE OF ROCK SOCKS FOR INLETS IN PEROUS AREAS. INSTALL PER SEDIMENT CONTROL LOG DETAIL.

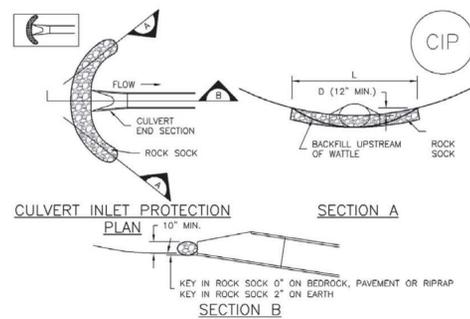


**IP-4. SILT FENCE FOR SUMP INLET PROTECTION**

**SILT FENCE INLET PROTECTION INSTALLATION NOTES**  
1. SEE SILT FENCE DESIGN DETAIL FOR INSTALLATION REQUIREMENTS.  
2. POSTS SHALL BE PLACED AT EACH CORNER OF THE INLET AND AROUND THE EDGES AT A MAXIMUM SPACING OF 3 FEET.  
3. STRAW WATTLES/SEDIMENT CONTROL LOGS MAY BE USED IN PLACE OF SILT FENCE FOR INLETS IN PEROUS AREAS. INSTALL PER SEDIMENT CONTROL LOG DETAIL.

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**Inlet Protection (IP) SC-6**



**CIP-1. CULVERT INLET PROTECTION**

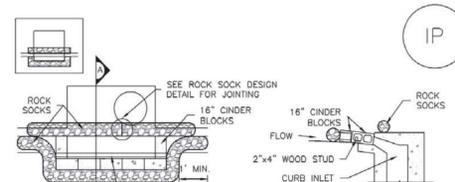
**CULVERT INLET PROTECTION INSTALLATION NOTES**  
1. SEE PLAN VIEW FOR -LOCATION OF CULVERT INLET PROTECTION.  
2. SEE ROCK SOCK DESIGN DETAIL FOR ROCK GRADATION REQUIREMENTS AND JOINTING DETAIL.

**CULVERT INLET PROTECTION MAINTENANCE NOTES**  
1. 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.  
2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.  
3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.  
4. SEDIMENT ACCUMULATED UPSTREAM OF THE CULVERT SHALL BE REMOVED WHEN THE SEDIMENT DEPTH IS 1/2 THE HEIGHT OF THE ROCK SOCK.  
5. CULVERT INLET PROTECTION SHALL REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS PERMANENTLY STABILIZED AND APPROVED BY THE LOCAL JURISDICTION.

(DETAILS ADAPTED FROM AURORA, COLORADO, NOT AVAILABLE IN AUTOCAD)  
NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

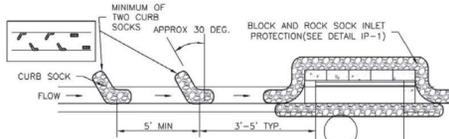
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**SC-6 Inlet Protection (IP)**



**IP-1. BLOCK AND ROCK SOCK SUMP OR ON GRADE INLET PROTECTION**

**BLOCK AND CURB SOCK INLET PROTECTION INSTALLATION NOTES**  
1. SEE ROCK SOCK DESIGN DETAIL FOR INSTALLATION REQUIREMENTS.  
2. CONCRETE "CINDER" BLOCKS SHALL BE LAID ON THEIR SIDES AROUND THE INLET IN A SINGLE ROW, ABUTTING ONE ANOTHER WITH THE OPEN END FACING AWAY FROM THE CURB.  
3. GRAVEL BAGS SHALL BE PLACED AROUND CONCRETE BLOCKS, CLOSELY ABUTTING ONE ANOTHER AND JOINTED TOGETHER IN ACCORDANCE WITH ROCK SOCK DESIGN DETAIL.



**IP-2. CURB ROCK SOCKS UPSTREAM OF INLET PROTECTION**

**CURB ROCK SOCK INLET PROTECTION INSTALLATION NOTES**  
1. SEE ROCK SOCK DESIGN DETAIL INSTALLATION REQUIREMENTS.  
2. PLACEMENT OF THE SOCK SHALL BE APPROXIMATELY 30 DEGREES FROM PERPENDICULAR IN THE OPPOSITE DIRECTION OF FLOW.  
3. SOCKS ARE TO BE FLUSH WITH THE CURB AND SPACED A MINIMUM OF 5 FEET APART.  
4. AT LEAST TWO CURB SOCKS IN SERIES ARE REQUIRED UPSTREAM OF ON-GRADE INLETS.

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**SC-6 Inlet Protection (IP)**

**GENERAL INLET PROTECTION INSTALLATION NOTES**  
1. SEE PLAN VIEW FOR:  
-LOCATION OF INLET PROTECTION.  
-TYPE OF INLET PROTECTION (IP-1, IP-2, IP-3, IP-4, IP-5, IP-6)  
2. INLET PROTECTION SHALL BE INSTALLED PROMPTLY AFTER INLET CONSTRUCTION OR PAVING IS COMPLETE (TYPICALLY WITHIN 48 HOURS). IF A RAINFALL/RUNOFF EVENT IS FORECAST, INSTALL INLET PROTECTION PRIOR TO ONSET OF EVENT.  
3. MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

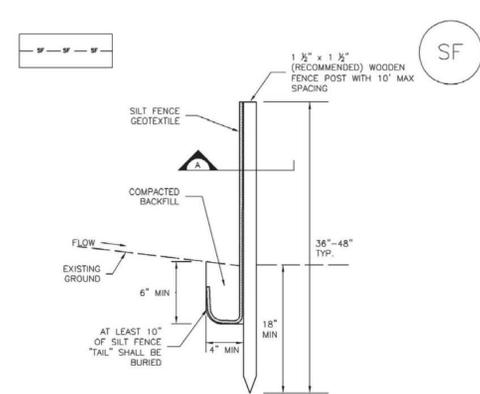
**INLET PROTECTION MAINTENANCE NOTES**  
1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.  
2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.  
3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.  
4. SEDIMENT ACCUMULATED UPSTREAM OF INLET PROTECTION SHALL BE REMOVED AS NECESSARY TO MAINTAIN BMP EFFECTIVENESS, TYPICALLY WHEN STORAGE VOLUME REACHES 50% OF CAPACITY, A DEPTH OF 6" WHEN SILT FENCE IS USED, OR 1/4 OF THE HEIGHT FOR STRAW BALES.  
5. INLET PROTECTION IS TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS PERMANENTLY STABILIZED, UNLESS THE LOCAL JURISDICTION APPROVES EARLIER REMOVAL OF INLET PROTECTION IN STREETS.  
6. WHEN INLET PROTECTION AT AREA INLETS IS REMOVED, THE DISTURBED AREA SHALL BE COVERED WITH TOP SOIL, SEEDS AND MULCHED, OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE LOCAL JURISDICTION.

(DETAILS ADAPTED FROM TOWN OF PARKER, COLORADO AND CITY OF AURORA, COLORADO, NOT AVAILABLE IN AUTOCAD)  
NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.  
NOTE: THE DETAILS INCLUDED WITH THIS FACT SHEET SHOW COMMONLY USED, CONVENTIONAL METHODS OF INLET PROTECTION IN THE DENVER METROPOLITAN AREA. THERE ARE MANY PROPRIETARY INLET PROTECTION METHODS ON THE MARKET. UDFCD NEITHER ENDORSES NOR DISCOURAGES USE OF PROPRIETARY INLET PROTECTION; HOWEVER, IN THE EVENT PROPRIETARY METHODS ARE USED, THE APPROPRIATE DETAIL FROM THE MANUFACTURER MUST BE INCLUDED IN THE SWMP AND THE BMP MUST BE INSTALLED AND MAINTAINED AS SHOWN IN THE MANUFACTURER'S DETAILS.  
NOTE: SOME MUNICIPALITIES DISCOURAGE OR PROHIBIT THE USE OF STRAW BALES FOR INLET PROTECTION. CHECK WITH LOCAL JURISDICTION TO DETERMINE IF STRAW BALE INLET PROTECTION IS ACCEPTABLE.

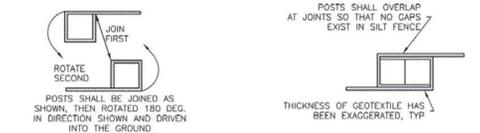
IP-8 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 August 2013

include outlet protection detail  
included earthen berm detail (if needed)

**Silt Fence (SF) SC-1**



**SILT FENCE**

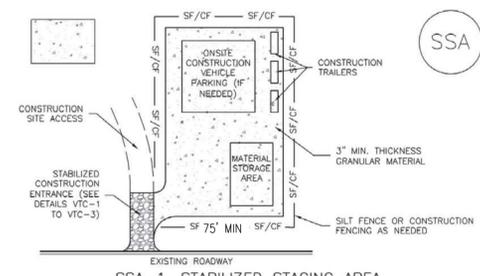


**SECTION A**

**SF-1. SILT FENCE**

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

**Stabilized Staging Area (SSA) SM-6**



**SSA-1. STABILIZED STAGING AREA**

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

**STABILIZED STAGING AREA MAINTENANCE NOTES**  
1. 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.  
2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.  
3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.  
4. ROCK SHALL BE REAPPLIED OR REGRADED AS NECESSARY IF RUTTING OCCURS OR UNDERLYING SUBGRADE BECOMES EXPOSED.

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

**SC-1 Silt Fence (SF)**

**SILT FENCE INSTALLATION NOTES**  
1. SILT FENCE MUST BE PLACED AWAY FROM THE TOE OF THE SLOPE TO ALLOW FOR WATER PONDING. SILT FENCE AT THE TOE OF A SLOPE SHOULD BE INSTALLED IN A FLAT LOCATION AT LEAST SEVERAL FEET (2-5 FT) FROM THE TOE OF THE SLOPE TO ALLOW ROOM FOR PONDING AND DEPOSITION.  
2. A UNIFORM 6" X 4" ANCHOR TRENCH SHALL BE EXCAVATED USING TRENCHER OR SILT FENCE INSTALLATION DEVICE. NO ROAD GRADERS, BACKHOES, OR SIMILAR EQUIPMENT SHALL BE USED.  
3. COMPACT ANCHOR TRENCH BY HAND WITH A "JUMPING JACK" OR BY WHEEL ROLLING. COMPACTION SHALL BE SUCH THAT SILT FENCE RESISTS BEING PULLED OUT OF ANCHOR TRENCH BY HAND.  
4. SILT FENCE SHALL BE PULLED TIGHT AS IT IS ANCHORED TO THE STAKES. THERE SHOULD BE NO NOTICEABLE SAG BETWEEN STAKES AFTER IT HAS BEEN ANCHORED TO THE STAKES.  
5. SILT FENCE FABRIC SHALL BE ANCHORED TO THE STAKES USING 1" HEAVY DUTY STAPLES OR NAILS WITH 1" HEADS. STAPLES AND NAILS SHOULD BE PLACED 3" ALONG THE FABRIC DOWN THE STAKE.  
6. AT THE END OF A RUN OF SILT FENCE ALONG A CONTOUR, THE SILT FENCE SHOULD BE TURNED PERPENDICULAR TO THE CONTOUR TO CREATE A "J-HOOK". THE "J-HOOK" EXTENDING PERPENDICULAR TO THE CONTOUR SHOULD BE OF SUFFICIENT LENGTH TO KEEP RUNOFF FROM FLOWING AROUND THE END OF THE SILT FENCE (TYPICALLY 10' - 20').  
7. SILT FENCE SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.

**SILT FENCE MAINTENANCE NOTES**  
1. 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.  
2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.  
3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.  
4. SEDIMENT ACCUMULATED UPSTREAM OF THE SILT FENCE SHALL BE REMOVED AS NEEDED TO MAINTAIN THE FUNCTIONALITY OF THE BMP, TYPICALLY WHEN DEPTH OF ACCUMULATED SEDIMENTS IS APPROXIMATELY 6".  
5. REPAIR OR REPLACE SILT FENCE WHEN THERE ARE SIGNS OF WEAR, SUCH AS SAGGING, TEARING, OR COLLAPSE.  
6. SILT FENCE IS TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND APPROVED BY THE LOCAL JURISDICTION, OR IS REPLACED BY AN EQUIVALENT PERIMETER SEDIMENT CONTROL BMP.  
7. WHEN SILT FENCE IS REMOVED, ALL DISTURBED AREAS SHALL BE COVERED WITH TOPSOIL, SEEDS AND MULCHED OR OTHERWISE STABILIZED AS APPROVED BY LOCAL JURISDICTION.

(DETAILS ADAPTED FROM TOWN OF PARKER, COLORADO AND CITY OF AURORA, NOT AVAILABLE IN AUTOCAD)  
NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

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

**SM-6 Stabilized Staging Area (SSA)**

**STABILIZED STAGING AREA MAINTENANCE NOTES**  
5. STABILIZED STAGING AREA SHALL BE ENGAGED IF NECESSARY TO CONTAIN PARKING, STORAGE, AND UNLOADING/LOADING OPERATIONS.  
6. 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, SEEDS 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 UDFCD 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 Urban Storm Drainage Criteria Manual Volume 3 November 2010

NO. DATE DESIGNED BY: ZCF/JGJ DRAWN BY: RAH/JJM CHECKED BY: RAH/JJM JOB #: 1051.14e DATE: NOV 2024 © JVA, INC.



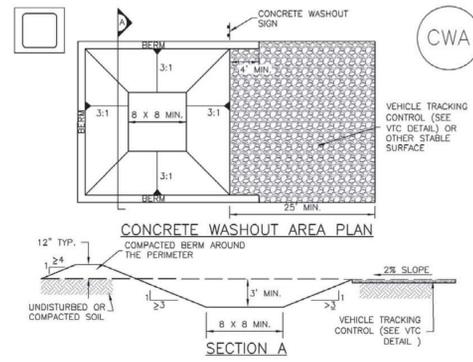
DESIGNED BY: ZCF/JGJ  
DRAWN BY: RAH/JJM  
CHECKED BY: RAH/JJM  
JOB #: 1051.14e  
DATE: NOV 2024  
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WOODMOOR WSD NO. 1  
HWY 105 UTILITY RELOCATION - PHASE B  
EL PASO COUNTY, COLORADO  
EROSION CONTROL DETAILS

SHEET NO.  
**CE1.13**

N:\1051.14e - WSD CO 105 Phase B\Drawings\1051.14e-01-ERP-NS.dwg, 11/15/2024, 1:21 PM, AMF

**Concrete Washout Area (CWA) MM-1**



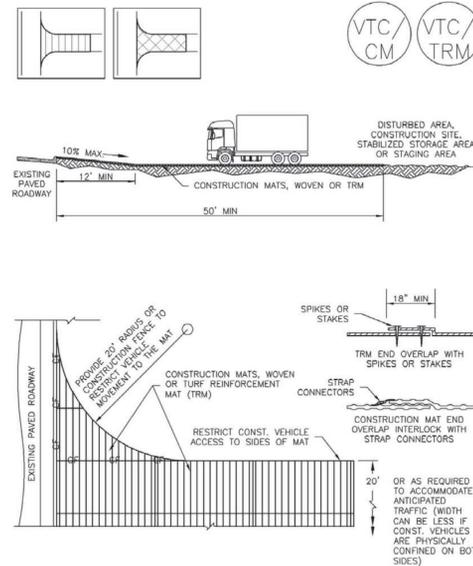
CWA-1. CONCRETE WASHOUT AREA

**CWA INSTALLATION NOTES**

- SEE PLAN VIEW FOR:  
-CWA INSTALLATION LOCATION.
- DO NOT LOCATE AN UNLINED CWA WITHIN 400' OF ANY NATURAL DRAINAGE PATHWAY OR WATERBODY. DO NOT LOCATE WITHIN 1,000' OF ANY WELLS OR DRINKING WATER SOURCES. IF SITE CONSTRAINTS MAKE THIS INFEASIBLE, OR IF HIGHLY PERMEABLE SOILS EXIST ON SITE, THE CWA MUST BE INSTALLED WITH AN IMPERMEABLE LINER (16 MIL MIN. THICKNESS) OR SURFACE STORAGE ALTERNATIVES USING PREFABRICATED CONCRETE WASHOUT DEVICES OR A LINED ABOVE GROUND STORAGE ARE SHOULD BE USED.
- THE CWA SHALL BE INSTALLED PRIOR TO CONCRETE PLACEMENT ON SITE.
- CWA SHALL INCLUDE A FLAT SUBSURFACE PIT THAT IS AT LEAST 8' BY 8' SLOPES LEADING OUT OF THE SUBSURFACE PIT SHALL BE 3:1 OR FLATTER. THE PIT SHALL BE AT LEAST 3' DEEP.
- BERM SURROUNDING SIDES AND BACK OF THE CWA SHALL HAVE MINIMUM HEIGHT OF 1'.
- VEHICLE TRACKING PAD SHALL BE SLOPED 2% TOWARDS THE CWA.
- SIGNS SHALL BE PLACED AT THE CONSTRUCTION ENTRANCE AT THE CWA AND ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CWA TO OPERATORS OF CONCRETE TRUCKS AND PUMP RIGS.
- USE EXCAVATED MATERIAL FOR PERIMETER BERM CONSTRUCTION.

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

**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

**Concrete Washout Area (CWA) MM-1**

**CWA 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.
- THE CWA SHALL BE REPAIRED, CLEANED, OR ENLARGED AS NECESSARY TO MAINTAIN CAPACITY FOR CONCRETE WASTE. CONCRETE MATERIALS, ACCUMULATED IN PIT, SHALL BE REMOVED ONCE THE MATERIALS HAVE REACHED A DEPTH OF 2'.
- CONCRETE WASHOUT WATER, WASTED PIECES OF CONCRETE AND ALL OTHER DEBRIS IN THE SUBSURFACE PIT SHALL BE TRANSPORTED FROM THE JOB SITE IN A WATER-TIGHT CONTAINER AND DISPOSED OF PROPERLY.
- THE CWA SHALL REMAIN IN PLACE UNTIL ALL CONCRETE FOR THE PROJECT IS PLACED.
- WHEN THE CWA IS REMOVED, COVER THE DISTURBED AREA WITH TOP SOIL, SEED AND MULCH OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE LOCAL JURISDICTION.

(DETAILS ADAPTED FROM DOUGLAS COUNTY, COLORADO AND THE CITY OF PINKER, COLORADO, NOT AVAILABLE IN AUTOCAD).  
 NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

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

**Vehicle Tracking Control (VTC) SM-4**

**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, ASTM D #1 COURSE AGGREGATE OR 6" (MINUS) ROCK.

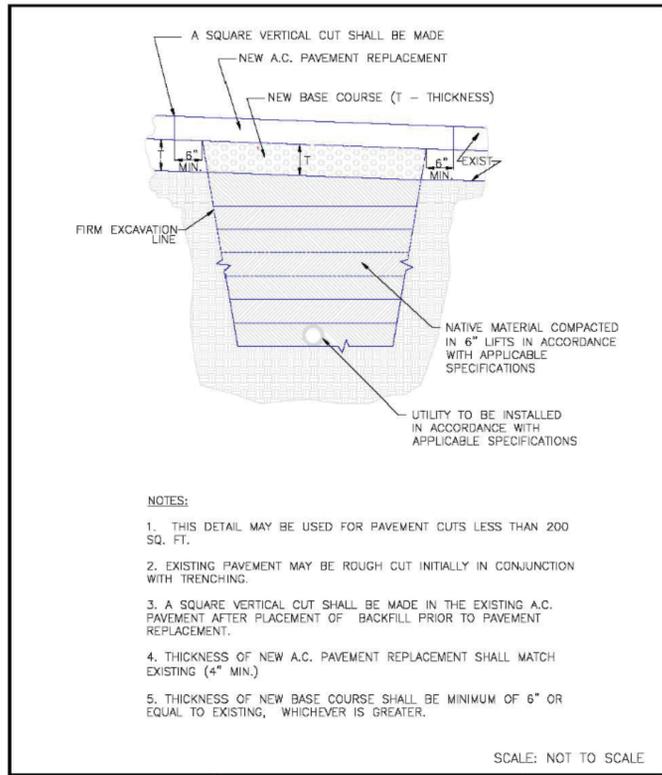
**STABILIZED CONSTRUCTION ENTRANCE/EXIT MAINTENANCE NOTES**

- 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 REPLACED OR REGRADED AS NECESSARY TO THE STABILIZED 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 UDFCD 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

Include ECM Standard detail SD\_4-20 for utility cuts in asphalt pavements



**NOTES:**

- THIS DETAIL MAY BE USED FOR PAVEMENT CUTS LESS THAN 200 SQ. FT.
- EXISTING PAVEMENT MAY BE ROUGH CUT INITIALLY IN CONJUNCTION WITH TRENCHING.
- A SQUARE VERTICAL CUT SHALL BE MADE IN THE EXISTING A.C. PAVEMENT AFTER PLACEMENT OF BACKFILL PRIOR TO PAVEMENT REPLACEMENT.
- THICKNESS OF NEW A.C. PAVEMENT REPLACEMENT SHALL MATCH EXISTING (4\"/>

SCALE: NOT TO SCALE

DATE APPROVED: 8/11/11	UTILITY TRENCH REPAIR DETAIL ASPHALT PAVEMENT STANDARD DRAWING	
APPROVED BY: André P. Brackin DEPARTMENT OF TRANSPORTATION	REVISION DATE: 11/10/04	

NO.	DATE	DESIGN	DESCRIPTION
		DOWN	



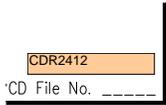
DESIGNED BY: ZCF/JGJ  
 DRAWN BY: ZCF/JGJ  
 CHECKED BY: RAH/JJM  
 JOB #: 1051.14e  
 DATE: NOV 2024  
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WOODMOOR WSD NO. 1  
 HWY 105 UTILITY RELOCATION - PHASE B  
 EL PASO COUNTY, COLORADO  
 EROSION CONTROL DETAILS

SHEET NO.  
**CE1.14**

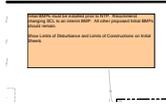
# Grading & Erosion Control Plan.pdf Markup Summary

Contractor (13)



**Subject:** Contractor  
**Page Label:** [1] GE0.0 COVER SHEET  
**Author:** Christina Prete  
**Date:** 1/9/2025 2:08:20 PM  
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CDR2412



**Subject:** Contractor  
**Page Label:** [3] CE1.0 INITIAL GRADING AND EROSION CONTROL PLAN  
**Author:** Christina Prete  
**Date:** 1/9/2025 2:20:04 PM  
**Status:**  
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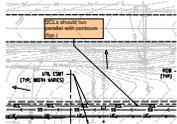
Initial BMPs must be installed prior to NTP. Recommend changing SCL to an interim BMP. All other proposed Initial BMPs should remain.

Show Limits of Disturbance and Limits of Constructions on Initial Sheets



**Subject:** Contractor  
**Page Label:** [9] CE1.6 INTERIM GRADING AND EROSION CONTROL PLAN  
**Author:** Christina Prete  
**Date:** 1/9/2025 2:35:02 PM  
**Status:**  
**Color:** ■  
**Layer:**  
**Space:**

recommend earthen berm on the upstream side of trench (instead of SCL on the downstream side) that runs parallel to contours as a cost effective BMP (typ.)



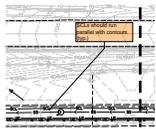
**Subject:** Contractor  
**Page Label:** [9] CE1.6 INTERIM GRADING AND EROSION CONTROL PLAN  
**Author:** Christina Prete  
**Date:** 1/9/2025 2:36:12 PM  
**Status:**  
**Color:** ■  
**Layer:**  
**Space:**

SCLs should run parallel with contours (typ.)



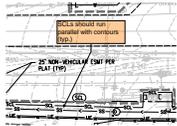
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**Page Label:** [9] CE1.6 INTERIM GRADING AND EROSION CONTROL PLAN  
**Author:** Christina Prete  
**Date:** 1/9/2025 2:35:28 PM  
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SCLs should run parallel with contours



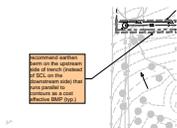
**Subject:** Contractor  
**Page Label:** [8] CE1.5 INTERIM GRADING AND EROSION CONTROL PLAN  
**Author:** Christina Prete  
**Date:** 1/9/2025 2:36:21 PM  
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SCLs should run parallel with contours (typ.)



**Subject:** Contractor  
**Page Label:** [7] CE1.4 INTERIM GRADING AND EROSION CONTROL PLAN  
**Author:** Christina Prete  
**Date:** 1/9/2025 2:36:59 PM  
**Status:**  
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**Layer:**  
**Space:**

SCLs should run parallel with contours (typ.)



**Subject:** Contractor  
**Page Label:** [7] CE1.4 INTERIM GRADING AND EROSION CONTROL PLAN  
**Author:** Christina Prete  
**Date:** 1/9/2025 2:38:01 PM  
**Status:**  
**Color:** ■  
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**Space:**

recommend earthen berm on the upstream side of trench (instead of SCL on the downstream side) that runs parallel to contours as a cost effective BMP (typ.)



**Subject:** Contractor  
**Page Label:** [11] CE1.8 FINAL GRADING AND EROSION CONTROL PLAN  
**Author:** Christina Prete  
**Date:** 1/9/2025 3:00:38 PM  
**Status:**  
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**Space:**

The County needs to know if the disturbance will not be stabilized similar to existing. Adding additional areas of impervious would require a drainage study.



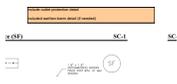
**Subject:** Contractor  
**Page Label:** [11] CE1.8 FINAL GRADING AND EROSION CONTROL PLAN  
**Author:** Christina Prete  
**Date:** 1/9/2025 2:41:22 PM  
**Status:**  
**Color:** ■  
**Layer:**  
**Space:**

add final stabilization hatching to legend



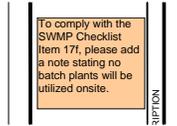
**Subject:** Contractor  
**Page Label:** [8] CE1.5 INTERIM GRADING AND EROSION CONTROL PLAN  
**Author:** Christina Prete  
**Date:** 1/9/2025 2:42:55 PM  
**Status:**  
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**Space:**

I added an X to callouts and LOD that seem to be remnants from old plans not applicable to this work. if this is not the case, please ignore



**Subject:** Contractor  
**Page Label:** [16] CE1.13 EROSION CONTROL DETAILS  
**Author:** Christina Prete  
**Date:** 1/9/2025 2:48:55 PM  
**Status:**  
**Color:** ■  
**Layer:**  
**Space:**

include outlet protection detail  
 included earthen berm detail (if needed)



**Subject:** Contractor  
**Page Label:** [3] CE1.0 INITIAL GRADING AND EROSION CONTROL PLAN  
**Author:** Christina Prete  
**Date:** 1/9/2025 2:58:13 PM  
**Status:**  
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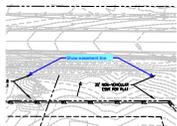
To comply with the SWMP Checklist Item 17f, please add a note stating no batch plants will be utilized onsite.

**Engineer (8)**



**Subject:** Engineer  
**Page Label:** [5] CE1.2 INITIAL GRADING AND EROSION CONTROL PLAN  
**Author:** Bret  
**Date:** 1/2/2025 2:28:17 PM  
**Status:**  
**Color:** ■  
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**Space:**

Please label



**Subject:** Engineer  
**Page Label:** [5] CE1.2 INITIAL GRADING AND EROSION CONTROL PLAN  
**Author:** Bret  
**Date:** 1/2/2025 2:29:13 PM  
**Status:**  
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Show easement line



**Subject:** Engineer  
**Page Label:** [8] CE1.5 INTERIM GRADING AND EROSION CONTROL PLAN  
**Author:** Bret  
**Date:** 1/3/2025 11:16:22 AM  
**Status:**  
**Color:** ■  
**Layer:**  
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include label



**Subject:** Engineer  
**Page Label:** [10] CE1.7 INTERIM GRADING AND EROSION CONTROL PLAN  
**Author:** Bret  
**Date:** 1/10/2025 10:23:21 AM  
**Status:**  
**Color:** ■  
**Layer:**  
**Space:**

include label  
 Road cut?

Include ECM Standard detail SD\_4-20 for utility cuts in asphalt pavements

---

**Subject:** Engineer  
**Page Label:** [17] CE1.14 EROSION CONTROL DETAILS  
**Author:** Bret  
**Date:** 1/3/2025 10:54:41 AM  
**Status:**  
**Color:** ■  
**Layer:**  
**Space:**

Include ECM Standard detail SD\_4-20 for utility cuts in asphalt pavements



---

**Subject:** Engineer  
**Page Label:** [9] CE1.6 INTERIM GRADING AND EROSION CONTROL PLAN  
**Author:** Bret  
**Date:** 1/3/2025 10:56:13 AM  
**Status:**  
**Color:** ■  
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**Space:**

label or remove

Missing property line?

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**Subject:** Engineer  
**Page Label:** [9] CE1.6 INTERIM GRADING AND EROSION CONTROL PLAN  
**Author:** Bret  
**Date:** 1/3/2025 10:56:55 AM  
**Status:**  
**Color:** ■  
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Missing property line?

Include ownership information

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**Subject:** Engineer  
**Page Label:** [6] CE1.3 INITIAL GRADING AND EROSION CONTROL PLAN  
**Author:** Bret  
**Date:** 1/9/2025 9:25:30 AM  
**Status:**  
**Color:** ■  
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**Space:**

Include ownership information

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### Image (1)



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**Subject:** Image  
**Page Label:** [17] CE1.14 EROSION CONTROL DETAILS  
**Author:** Bret  
**Date:** 1/9/2025 9:27:57 AM  
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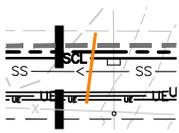
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### Line (22)



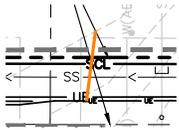
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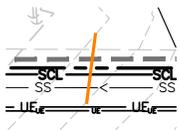
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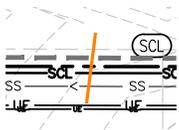
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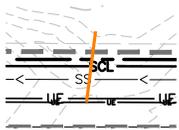
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**Subject:** Line  
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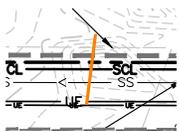
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**Subject:** Line  
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**Author:** Christina Prete  
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**Subject:** Line  
**Page Label:** [9] CE1.6 INTERIM GRADING AND EROSION CONTROL PLAN  
**Author:** Christina Prete  
**Date:** 1/9/2025 2:29:48 PM  
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**Subject:** Line  
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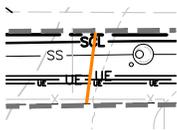
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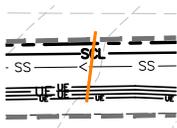
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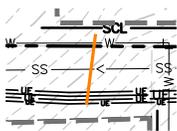
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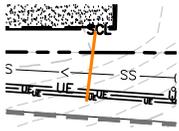
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**Subject:** Line  
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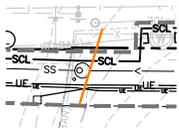
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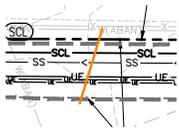
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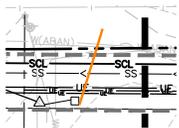
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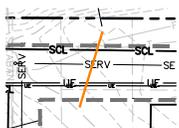
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**Subject:** Line  
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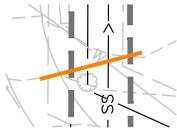


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**Subject:** Line  
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**Subject:** Line  
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**Subject:** Line  
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12-17-24

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**Page Label:** [8] CE1.5 INTERIM GRADING AND EROSION CONTROL PLAN X

**Author:** Christina Prete

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