

RIDGEGATE EAST FILING NO. 4 - GRADING, EROSION, AND SEDIMENT CONTROL PLAN

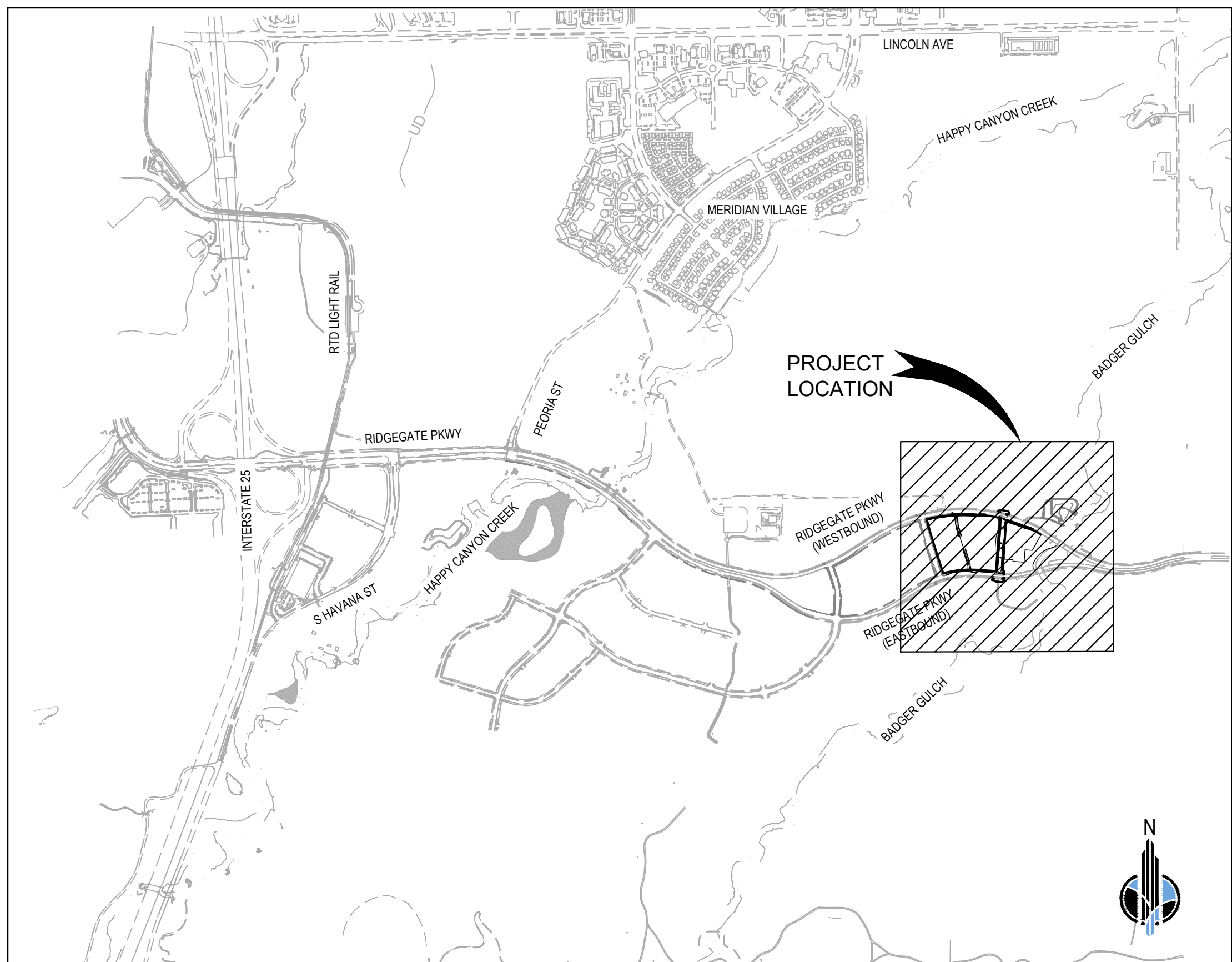
SECTION 23, TOWNSHIP 6 SOUTH, RANGE 67 WEST 6TH P.M.
CITY OF LONE TREE, DOUGLAS COUNTY

ABBREVIATION LEGEND

AB	AS-BUILT
BFE	BASE FLOOD ELEVATION
BFV	BUTTERFLY VALVE
BMP	BEST MANAGEMENT PRACTICE
BOP	BOTTOM OF PIPE
BOW	FINISHED GRADE AT BOTTOM OF WALL
BVCE	BEGIN VERTICAL CURVE ELEVATION
BVCS	BEGIN VERTICAL CURVE STATION
C&G	CURB & GUTTER
CL	CENTERLINE
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CONC	CONCRETE
CONT	CONTINUOUS
CR	CURB RETURN
DIA, Ø	DIAMETER
DIP	DUCTILE IRON PIPE
DTL	DETAIL
E	EASTING, EAST
EA	EACH
ECC	ECCENTRIC
EL, ELEV	ELEVATION
EOA	EDGE OF ASPHALT
EOW	EDGE OF WALK
ESMT	EASEMENT
EURV	EXCESS URBAN RUNOFF VOLUME
EVCE	END VERTICAL CURVE ELEVATION
EVCS	END VERTICAL CURVE STATION
EX	EXISTING
FH	FIRE HYDRANT
FES	FLARED END SECTION
FG	FINISHED GRADE
FL	FLOWLINE
FO	FIBER OPTIC
FT	FEET
FLG	FLANGE
GB	GRADE BREAK
GESC	GRADING, EROSION, AND SEDIMENT CONTROL
GPM	GALLONS PER MINUTE
GV	GATE VALVE
HDPE	HIGH DENSITY POLYETHYLENE
HGL	HYDRAULIC GRADE LINE
HOA	HOME OWNERS' ASSOCIATION
HP	HIGH POINT
IN	INCH
INV	INVERT
K	RATE OF CURVATURE
KB	KICK BLOCK
L.F.	LINEAR FEET
LP	LOW POINT
LT	LEFT
LVC	LENGTH OF VERTICAL CURVE
MAX	MAXIMUM
MFR	MANUFACTURER
MHFD	MILE HIGH FLOOD DISTRICT
MIN	MINIMUM
MH	MANHOLE
MJ	MECHANICAL JOINT
NAVD	NORTH AMERICAN VERTICAL DATUM
N	NORTHING, NORTH
n	MANNING'S ROUGHNESS COEFFICIENT
NTS	NOT TO SCALE
O.C.	ON CENTER
OHE	OVERHEAD ELECTRIC LINE(S)
P&P	PLAN & PROFILE
PC	POINT OF CURVE
PCC	POINT OF COMPOUND CURVE
PCR	POINT OF CURB RETURN
PI	POINT OF INTERSECTION
PRC	POINT OF REVERSE CURVE
PSCO	PUBLIC SERVICE COMPANY OF COLORADO (XCEL)
PT	POINT OF TANGENCY
PVC	POINT OF VERTICAL CURVE, POLYVINYL CHLORIDE
PVI	POINT OF VERTICAL INTERSECTION
PVMT	PAVEMENT
PVT	POINT OF VERTICAL TANGENT
PWSD	PARKER WATER AND SANITATION DISTRICT
Q80	DISCHARGE AT 80% CAPACITY
R	RADIUS
RT	RIGHT
REC	RECEPTION
RCP	REINFORCED CONCRETE PIPE
RGI	RIDGEGATE INVESTMENTS INC.
RMD	RAMPART RANGE METROPOLITAN DISTRICT
RT	RIGHT
S	SOUTH
SDMH	STORM DRAIN MANHOLE
SS	SANITARY SEWER
STA	STATION
STM	STORM
SY	SQUARE YARD
TBC	TOP BACK OF CURB
TBR	TO BE REMOVED
TCC	TOP OF CONCRETE
TOP	TOP OF PIPE
TOW	FINISHED GRADE AT TOP OF WALL
TYP	TYPICAL
VERT	VERTICAL
VC	VERTICAL CURVE
VTC	VEHICLE TRACKING CONTROL
W	WEST
W	WITH
WSEL	WATER SURFACE ELEVATION
XING	CROSSING

LEGEND

	EXISTING 1' INTERVAL CONTOUR
	EXISTING 5' INTERVAL CONTOUR
	100-YEAR FLOODPLAIN
	EXISTING RIGHT-OF-WAY
	EXISTING CURB & GUTTER
	EXISTING EDGE OF PAVEMENT
	EXISTING EASEMENT
	EXISTING FENCE
	EXISTING WATER MAIN, FIRE HYDRANT & GATE VALVE
	EXISTING WATER METER, BUTTERFLY VALVE, REDUCER & BLOWOFF VALVE
	EXISTING WATER WELL & AIR RELEASE VALVE
	EXISTING WATER BENDS/FITTINGS
	EXISTING IRRIGATION
	EXISTING IRRIGATION BOX
	EXISTING SANITARY SEWER & MANHOLE
	EXISTING STORM SEWER, INLET, MANHOLE, FLARED END SECTION & RIPRAP
	EXISTING OVERHEAD ELECTRIC LINE(S) & POLE
	EXISTING UNDERGROUND ELECTRIC LINE
	EXISTING ELECTRIC BOX, ELECTRIC METER, TRANSFORMER & SWITCH CABINET
	EXISTING GAS LINE
	EXISTING GAS LINE
	EXISTING TELEPHONE PEDESTAL & MANHOLE
	EXISTING FIBER OPTIC
	EXISTING TRENCHDRAIN
	EXISTING ELECTRIC, GAS & TELEPHONE MARKER POST
	EXISTING ROADWAY SIGN, STREET LIGHT & TRAFFIC LIGHT
	EXISTING TRAFFIC CONTROL BOX
	EXISTING DRY UTILITY VAULT
	PROPOSED 1' INTERVAL CONTOUR
	PROPOSED 5' INTERVAL CONTOUR
	PROPERTY BOUNDARY
	PROPOSED LOT LINE
	PROPOSED RIGHT-OF-WAY
	PROPOSED ROADWAY CENTERLINE
	PROPOSED ROADWAY CURB & GUTTER
	PROPOSED EDGE OF PAVEMENT
	PROPOSED EASEMENT
	PROPOSED WATER MAIN, GATE VALVE, TEE, & FIRE HYDRANT ASSEMBLY
	PROPOSED WATER METER, BUTTERFLY VALVE, REDUCER & BLOWOFF VALVE
	PROPOSED WATER WELL & AIR RELEASE VALVE
	PROPOSED WATER BENDS/FITTINGS
	PROPOSED IRRIGATION BOX
	PROPOSED CONDUIT TRENCH
	PROPOSED SANITARY SEWER
	PROPOSED STORM SEWER, INLET, MANHOLE & FLARED END SECTION
	PROPOSED UNDERGROUND ELECTRIC LINE
	PROPOSED ELECTRIC BOX, ELECTRIC METER, TRANSFORMER & SWITCH CABINET
	PROPOSED GAS LINE
	PROPOSED TELEPHONE PEDESTAL & MANHOLE
	PROPOSED FIBER OPTIC
	PROPOSED TRENCHDRAIN
	PROPOSED ROADWAY SIGN, STREET LIGHT & TRAFFIC LIGHT
	PROPOSED TRAFFIC CONTROL BOX
	PROPOSED DRY UTILITY VAULT
	TEST HOLE LOCATION
	WETLANDS AREA
	SIGHT TRIANGLE
	BOTTOM OF SWALE



VICINITY MAP
1" = 1,200'

AGENCY LIST

PROPERTY OWNER
RIDGEGATE INVESTMENTS, INC.
70 E 55TH ST, 11TH FLOOR
NEW YORK, NY 10022

PH: (212) 752-6164
ATTN: BOB ASSELBERGS

DEVELOPER
COVENTRY DEVELOPMENT CORPORATION
9878 SCHWAB WAY, SUITE 415
LONE TREE, CO 80124

PH: (720) 279-2581
ATTN: JOHN CONNELLY, PE

CITY ENGINEER
CITY OF LONE TREE
PUBLIC WORKS DEPARTMENT
9220 KIMMER DR, SUITE 100
LONE TREE, CO 80124

PH: (720) 509-1240
ATTN: JACOB JAMES, PE

METRO DISTRICT
RAMPART RANGE METROPOLITAN DISTRICT NO. 5
8390 E CRESCENT PARKWAY, SUITE 300
GREENWOOD VILLAGE, CO 80111

PH: (303) 779-4525
ATTN: DENISE DENSLAW

CIVIL ENGINEER
MERRICK & COMPANY
5970 GREENWOOD PLAZA BLVD
GREENWOOD VILLAGE, CO 80111

PH: (303) 751-0741
ATTN: CARSON BESGROVE, PE

FIRE
SOUTH METRO FIRE RESCUE
9195 E MINERAL AVENUE
CENTENNIAL, CO 80112

PH: (720) 989-2249
ATTN: SCOTT STENE

COUNTY
DOUGLAS COUNTY
100 THIRD ST
CASTLE ROCK, CO 80104

PH: (303) 660-7490
ATTN: MATT WILLIAMS, PE

UTILITIES
AT&T
619 W BANNOCK ST, ROOM 342
BOISE, ID 83702

PH: (208) 841-5093
ATTN: JT ANDREWS

CENTURYLINK
7759 S. WHEELING CT.
ENGLEWOOD, CO 80112

PH: (720) 578-5291
ATTN: TRAVIS YOUNG

PARKER WATER & SANITATION DISTRICT
18100 WOODMAN DR
PARKER, CO 80134

PH: (303) 841-2058
ATTN: JAROD BAYLIE

VERIZON
10000 PARK MEADOWS DR
LONE TREE, CO 80124

PH: (303) 390-2466
ATTN: LANE GRADY

XCEL ENERGY
1800 LARIMER ST
DENVER, CO 80202

PH: (303) 628-2708
ATTN: TONY PIETRAS

BENCHMARK

PROJECT BENCHMARK IS RIDGEGATE BM 1, A 3.25" DIAMETER BRASS CAP SET ON THE NORTHWEST BRIDGE ABUTMENT OF RIDGEGATE PARKWAY STAMPED "RIDGEGATE BM 1 2021" AND IS APPROXIMATELY 0.7 MILES EAST ON RIDGEGATE PARKWAY FROM THE INTERSECTION OF I-25 AND RIDGEGATE PARKWAY IN LONE TREE, COLORADO. THE BENCHMARK IS 1 FOOT FROM THE WEST EDGE OF THE ABUTMENT, 3 FEET NORTH OF THE BACK OF WALK, AND 31 FEET NORTH OF THE WEST BOUND CENTERLINE OF RIDGEGATE PARKWAY. ELEVATION IS 5983.40 U.S. SURVEY FEET, NAVD 88 DOUGLAS COUNTY DATUM.

PROJECT COORDINATES ARE MODIFIED COLORADO STATE PLANE CENTRAL ZONE COORDINATES. THE COMBINED FACTOR USED TO MODIFY COORDINATES WAS 1.00032591873.

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

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

GESC PLANS PREPARED BY:
MERRICK & COMPANY
DATE _____ P.E. NUMBER _____



Know what's below.
Call before you dig.

City of Lone Tree
These construction plans have been reviewed by the City of Lone Tree for street and drainage improvements only.
Engineering Division Acceptance Block

Sheet List Table	
Sheet Number	Sheet Title
1	COVER
2	GENERAL NOTES
3	INITIAL GESC PLAN EXHIBIT
4	INTERIM GESC PLAN EXHIBIT
5	FINAL GESC PLAN EXHIBIT
6	CITY OF LONE TREE GESC DETAIL 1
7	CITY OF LONE TREE GESC DETAIL 2
8	CITY OF LONE TREE GESC DETAIL 3



RIDGEGATE EAST FILING NO. 4
GRADING, EROSION, AND
SEDIMENT CONTROL PLAN

ISSUED FOR REVIEW
FOR AND ON BEHALF OF MERRICK & COMPANY

JOB NO.: 65121240
DATE: 9/29/2023
SHEET: 1 OF 8

File Location: D:\DEN\Projects\5097-702-RRWD_Overall_East\Projects\1240-Couplet_Roadway_Design\Design\CDS\GESC\FILING_4\1240-COVER.dwg Plot Date: 10/23/2023 9:44 AM Last Saved By: BRIAN BERN

THE USE OF ANY ENGINEERING, ARCHITECTURE, OR SURVEYING SERVICES BY MERRICK AND COMPANY, FOR A SPECIFIC PROJECT, IS NOT INTENDED OR REPRESENTED TO BE SUITABLE FOR REUSE OR PART OR EXTENSION OF THE PROJECT OR ON ANY OTHER PROJECT. REUSE OR MODIFICATION OF ANY INFORMATION NOT A PHYSICAL INSTRUMENT WITHOUT THE WRITTEN CONSENT OF MERRICK AND COMPANY SHALL BE AT THE USER'S RISK. THE USER ASSUMES ALL LIABILITY TO ANY AND ALL THIRD PARTIES.

THE USE OF ANY CHANGES TO EXISTING MEDIA OR EQUIPMENT IS AN INDICATOR OF SERVICE CHANGES BY MERRICK AND COMPANY. FOR A FURTHER PROJECT, REUSE OR MODIFICATION OF ANY UTILITATION NOT A FURTHER INSTRUMENT WITHOUT THE PRIOR WRITTEN CONSENT OF THE PROJECT OR ON ANY OTHER PROJECT, REUSE OR MODIFICATION OF ANY UTILITATION NOT A FURTHER INSTRUMENT WITHOUT THE PRIOR WRITTEN CONSENT OF MERRICK AND COMPANY SHALL BE THE USER'S RESPONSIBILITY AND SHALL BE AT THE USER'S RISK. CONTACT MERRICK AND COMPANY FOR MORE INFORMATION.


File Location: C:\DEN\Projects\5097-02-RRWD Overall East\Projects\1240-Couplet Roadway Design\Design\CDs\GESC\FILING 4\1240-COVER.dwg Plot Date: 10/3/2023 9:44 AM Last Saved By: BRIAN BERN

GENERAL CONSTRUCTION NOTES

1. ALL CONTRACTOR AND SUBCONTRACTORS SHALL HAVE A SET OF APPROVED CONSTRUCTION DOCUMENTS, THE APPROPRIATE EDITION OF THE GOVERNING JURISDICTION DESIGN AND CONSTRUCTION STANDARDS, THE STORM WATER MANAGEMENT PLAN, AND ALL REQUIRED PERMITS ON SITE AT ALL TIMES.
2. ALL (SANITARY SEWER, STORM SEWER, UNDERDRAIN, WATER LINE, OR STREET) CONSTRUCTION SHALL CONFORM TO THE APPROPRIATE EDITION OF THE GOVERNING JURISDICTION STANDARDS AND SPECIFICATIONS.
3. THE ENGINEER MAKES NO REPRESENTATION OR GUARANTEE REGARDING EARTHWORK QUANTITIES OR THAT THE EARTHWORK FOR THIS PROJECT WILL BALANCE DUE TO VARIOUS FIELD CONDITIONS, CHANGING SOIL TYPES, ALLOWABLE CONSTRUCTION TOLERANCES, AND CONSTRUCTION METHODS THAT ARE BEYOND THE CONTROL OF THE ENGINEER.
4. MERRICK & COMPANY IS NOT RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES, SAFETY PRECAUTIONS, OR PROGRAMS UTILIZED IN CONNECTION WITH THE WORK. MERRICK WILL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
5. THE CONTRACTOR SHALL CALL THE NATIONWIDE UTILITY CONTACT NUMBER (811) OR LOCAL UTILITY LOCATE SERVICE, TO REQUEST LOCATES OF ALL UNDERGROUND UTILITIES AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF ANY LAND DISTURBING ACTIVITY.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITIES, INCLUDING DEPTH. UTILITY LOCATIONS ARE APPROXIMATE ONLY AND ARE NOT RELIABLE FOR CONSTRUCTION PURPOSES. THE UTILITIES SHOWN ON THE PLANS ARE FROM THE BEST AVAILABLE INFORMATION AND MAY NOT INCLUDE ALL UTILITIES THAT EXIST ON THE PROJECT SITE. THE CONTRACTOR SHALL PARTICIPATE IN THE RESOLUTION OF ANY CONFLICTS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
7. THE CONTRACTOR SHALL VERIFY SITE CONDITIONS, EXISTING TOPOGRAPHIC DATA, AND LOCATIONS OF ALL UTILITIES PRIOR TO INITIATING CONSTRUCTION. THE CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES ON THE PROJECT SITE. ANY DAMAGE TO EXISTING UTILITIES, WHETHER SHOWN OR NOT ON THE PROJECT PLANS, SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE AND NO ADDITIONAL COST TO THE OWNER. NOTIFY ENGINEER AND OWNER OF ANY DISCREPANCIES FOUND PRIOR TO INITIATING ANY WORK.
8. THE CONTRACTOR SHALL OBTAIN ALL PERMITS NECESSARY TO COMPLETE THE WORK AND SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS. A COPY OF ALL PERMITS SHALL BE MAINTAINED ON-SITE AT ALL TIMES.
9. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT LISTED BELOW:
 "GEOTECHNICAL EVALUATION RIDGEGATE PARKWAY STATION ROADS LONE TREE, COLORADO" BY GROUND ENGINEERING, DATED DECEMBER 20, 2019
 THE CONTRACTOR IS RESPONSIBLE FOR SAFETY OF ALL PERSONNEL AND EQUIPMENT ON THE PROJECT SITE AT ALL TIMES, AND IS NOT LIMITED TO NORMAL WORKING HOURS. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL SAFETY AND HEALTH REGULATIONS.
11. TRAFFIC CONTROL STANDARDS FOR THIS PROJECT SHALL COMPLY WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION. A TRAFFIC CONTROL PLAN APPROVED BY OWNER FOR ON-SITE ACTIVITY AND/OR THE LOCAL ENTITY EXERCISING JURISDICTION OVER PUBLIC RIGHTS OF WAY SHALL BE OBTAINED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.
12. THERE SHALL BE NO WORK PERFORMED ON WEEKENDS OR HOLIDAYS, UNLESS ACCEPTED AND APPROVED IN WRITING AND IN ADVANCE BY THE OWNER, ENGINEER, AND LOCAL JURISDICTION.
13. ALL WASTE MATERIALS SHALL BE PROPERLY DISPOSED OF IN AN APPROVED LANDFILL PERMITTED TO ACCEPT THAT PARTICULAR TYPE OF WASTE.
14. DEVIATIONS FROM THESE PLANS AND SPECIFICATIONS WITHOUT PRIOR WRITTEN APPROVAL OF THE OWNER OR HIS DESIGNATED REPRESENTATIVE MAY CAUSE THE WORK TO BE DEEMED UNACCEPTABLE.
15. INSTALL INITIAL SEDIMENTATION AND EROSION CONTROL MEASURES PRIOR TO INITIATING ANY WORK ON THE PROJECT SITE. MAINTAIN ALL EROSION CONTROL MEASURES UNTIL FINAL STABILIZATION AND REVEGETATION IS APPROVED BY THE COUNTY AND/OR CITY.
16. THE PROJECT PLANS AND SPECIFICATIONS ARE INTENDED TO PROVIDE THE COMPLETED PROJECT IN A COMPLETE AND OPERABLE CONDITION. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIALS AND PROVIDE ALL LABOR NECESSARY TO COMPLETE THE PROJECT IN A NEAT AND WORKMANLIKE MANNER, INCLUDING ALL INCIDENTALS NECESSARY TO COMPLETE THE WORK, WITHOUT ADDITIONAL COST TO THE OWNER.
17. NOTIFY INSPECTORS OF ALL WORK ACTIVITY AT LEAST 24 HOURS IN ADVANCE.
18. ANY INSPECTION BY THE GOVERNING AGENCY OR THE ENGINEER, SHALL NOT, IN ANY WAY, RELIEVE THE CONTRACTOR FROM ANY OBLIGATION TO PERFORM THE WORK IN STRICT COMPLIANCE WITH THE APPLICABLE CODES AND AGENCY REQUIREMENTS.
19. ANY DISRUPTION IN UTILITIES SHALL BE COORDINATED AT LEAST 24 HOURS IN ADVANCE WITH THE UTILITY OWNER, PROJECT OWNER, EMERGENCY PROVIDERS, ALL IMPACTED LOCAL RESIDENTS, AND IMPACTED BUSINESS OWNERS. METHOD OF NOTIFICATION SHALL BE SUBJECT TO APPROVAL OF THE PROJECT OWNER AND AFFECTED UTILITY OWNER.
20. MAINTAIN EMERGENCY VEHICLE ACCESS TO AND THROUGH THE PROJECT SITE AT ALL TIMES.
21. THE CONTRACTOR IS RESPONSIBLE FOR RESTORATION OF EXISTING UTILITIES AND SURFACE CONDITIONS DISTURBED BY CONSTRUCTION ACTIVITIES TO THE SATISFACTION OF THE OWNER, PROPERTY OWNER, AFFECTED UTILITY, OR LOCAL JURISDICTION. ALL SURFACE AND UTILITY RESTORATION SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER. ALL SURFACE RESTORATION SHALL BE REPLACED WITH LIKE KIND, SIZE, AND TYPE OF IMPROVEMENT THAT EXISTED PRIOR TO INITIATING CONSTRUCTION.
22. THE PROJECT PLANS AND SPECIFICATIONS AS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER, FOR AND ON BEHALF OF MERRICK AND COMPANY, REPRESENT THE FINAL CONSTRUCTION DOCUMENTS FOR THIS PROJECT. THE USE OF ANY ELECTRONIC OR OTHER MEDIA PURPORTING TO REPRESENT THE FINAL CONSTRUCTION DOCUMENTS FOR THIS PROJECT SHALL NOT BE RELIED UPON AS FINAL CONSTRUCTION DOCUMENTS. SHOULD THERE BE A CONFLICT BETWEEN SEALED DRAWINGS AND ELECTRONIC OR OTHER MEDIA FILES, THE SEALED DRAWINGS SHALL GOVERN. EACH USER OF ANY ELECTRONIC OR OTHER MEDIA WAIVES AND RELEASES MERRICK FROM ALL ACTIONS, CLAIMS, DAMAGES, ACTIONS, OBLIGATIONS, AND LIABILITIES OF ANY KIND OR NATURE WITH RESPECT TO THE ELECTRONIC OR OTHER MEDIA FILES.
23. NOTHING CONTAINED IN THE CONTRACT DOCUMENTS SHALL CREATE, NOR SHALL BE CONSTRUED TO CREATE, ANY CONTRACTUAL RELATIONSHIP BETWEEN THE ENGINEER AND THE CONTRACTOR OR ANY SUBCONTRACTOR.
24. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROMPTLY NOTIFYING THE ENGINEER OF ANY PROBLEMS OR POTENTIAL PROBLEMS IN CONFORMANCE TO THE DESIGN LINE AND GRADE FOR ANY ELEMENT OF THE CONSTRUCTION. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROMPTLY NOTIFYING THE ENGINEER OF SITE CONDITIONS THAT DIFFER FROM THOSE SHOWN ON THE APPROVED PLANS.
25. IN THE EVENT THE CONTRACTOR ALLOWS, AUTHORIZES, APPROVES OR CONSTRUCTS ITEMS THAT DIFFER FROM THE APPROVED PLAN, SPECIFICATIONS, OR OTHER CONTRACT DOCUMENTS, WITHOUT WRITTEN APPROVAL BY THE ENGINEER, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY LIABILITY ARISING FROM SUCH CHANGES.

CITY OF LONE TREE GENERAL NOTES

1. THE CITY OF LONE TREE ENGINEER'S SIGNATURE AFFIXED TO THIS DOCUMENT INDICATES THE ENGINEERING DIVISION HAS REVIEWED THE DOCUMENT AND FOUND IT IN GENERAL CONFORMANCE WITH THE CITY OF LONE TREE SUBDIVISION RESOLUTION OR APPROVED VARIANCES TO THOSE REGULATIONS. THE CITY OF LONE TREE ENGINEER, THROUGH ACCEPTANCE OF THIS DOCUMENT, ASSUMES NO RESPONSIBILITY, OTHER THAN STATED ABOVE, FOR THE COMPLETENESS AND/OR ACCURACY OF THESE DOCUMENTS. THE OWNER AND ENGINEER UNDERSTAND THAT THE RESPONSIBILITY FOR THE ENGINEERING ADEQUACY OF THE FACILITIES DEPICTED IN THIS DOCUMENT LIES SOLELY WITH THE REGISTERED PROFESSIONAL ENGINEER WHOSE STAMP AND SIGNATURE IS AFFIXED TO THIS DOCUMENT.
2. ALL ROADWAY CONSTRUCTION SHALL CONFORM TO CURRENT DOUGLAS COUNTY ROADWAY DESIGN AND CONSTRUCTION STANDARDS.
3. ALL MATERIALS AND WORKMANSHIP SHALL BE SUBJECT TO INSPECTION BY THE CITY OF LONE TREE ENGINEERING DIVISION. THE CITY RESERVES THE RIGHT TO ACCEPT OR REJECT ANY SUCH MATERIALS AND WORKMANSHIP THAT DOES NOT CONFORM TO ITS STANDARDS AND SPECIFICATIONS.
4. THE CONTRACTOR SHALL NOTIFY THE CITY OF LONE TREE PUBLIC WORKS, INSPECTION SECTION, (303) 662-8112, A MINIMUM OF 48 HOURS AND A MAXIMUM OF 96 HOURS PRIOR TO STARTING CONSTRUCTION, AND/OR BEFORE RESTARTING CONSTRUCTION AFTER A SHUTDOWN OF MORE THAN TEN (10) DAYS.
5. LOCATION OF EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO ACTUAL CONSTRUCTION. FOR INFORMATION, CONTACT: UTILITY NOTIFICATION CENTER OF COLORADO (UNCC) AT (800) 922-1987 OR 811.
6. THE CONTRACTOR SHALL HAVE ONE (1) SIGNED COPY (SIGNED BY BOTH DESIGN ENGINEER AND CITY OF LONE TREE) OF THE CONSTRUCTION PLANS AND GESC REPORT AND PLAN, AND ONE (1) COPY OF THE DOUGLAS COUNTY ROADWAY DESIGN AND CONSTRUCTION STANDARDS AT THE JOB SITE AT ALL TIMES.
7. ALL PROPOSED STREET CUTS TO EXISTING PAVEMENTS FOR UTILITIES, STORM SEWER, OR OTHER PURPOSES ARE LISTED AND REFERENCED BELOW:
 RIDGEGATE PARKWAY
8. A ROW/CONSTRUCTION PERMIT MUST BE OBTAINED BEFORE ANY WORK WITHIN EXISTING OR PROPOSED PUBLIC ROW. THE PERMIT APPLICATION MUST BE SUBMITTED TO THE CITY OF LONE TREE ENGINEER FOR REVIEW/PROCESSING A MINIMUM OF SEVEN (7) DAYS PRIOR TO REQUESTED START FOR THE WORK IN THE ROW.
9. A PLAN FOR TRAFFIC CONTROL DURING CONSTRUCTION SHALL BE SUBMITTED TO THE CITY OF LONE TREE ENGINEER FOR ACCEPTANCE WITH THE PERMIT APPLICATION. AN EXCAVATION OR PUBLIC IMPROVEMENTS CONSTRUCTION PERMIT WILL NOT BE ISSUED WITHOUT AN APPROVED TRAFFIC CONTROL PLAN FOR TRAFFIC CONTROL DURING CONSTRUCTION.
10. THE CONSTRUCTION PLANS SHALL BE CONSIDERED VALID FOR TWO (2) YEARS FROM THE DATE OF CITY OF LONE TREE ACCEPTANCE/APPROVAL. IF APPLICABLE CONSTRUCTION PERMITS HAVE NOT BEEN OBTAINED, AND CONSTRUCTION STARTED WITHIN THAT TIME, THESE PLANS SHALL BE VOID AND WILL BE SUBJECT TO RE-REVIEW AND RE-ACCEPTANCE BY THE CITY OF LONE TREE.
11. CONTRACTOR SHALL NOTIFY THE CITY OF LONE TREE ENGINEER INSPECTOR WHEN WORKING OUTSIDE OF THE PUBLIC RIGHT-OF-WAY ON ANY FACILITY WHICH WILL BE CONVEYED TO THE CITY, MILE HIGH FLOOD DISTRICT, OR OTHER SPECIAL DISTRICT FOR MAINTENANCE (STORM SEWER, ENERGY DISSIPATORS, DETENTION OUTLET STRUCTURES, OR OTHER DRAINAGE INFRASTRUCTURES), FAILURE TO NOTIFY ENGINEERING INSPECTOR TO ALLOW THEM TO INSPECT THE CONSTRUCTION MAY RESULT IN NON-ACCEPTANCE OF THE FACILITIES/INFRASTRUCTURE BY CITY AND/OR MILE HIGH FLOOD DISTRICT.



MERRICK
 Engineering / Architecture / Design-Build / Surveying / Planning / Geospatial Solutions
 5970 GREENWOOD PLAZA BLVD. GREENWOOD VILLAGE, CO. 80111
 303-751-0741
 www.merrick.com

										DRWN	CHKD	APPR

DESIGN BY:	BB
DRAWN BY:	NB
CHECKED BY:	CB
APPROVED BY:	

RIDGEGATE EAST FILING NO. 4
 GRADING, EROSION, AND
 SEDIMENT CONTROL PLAN

GENERAL NOTES

ISSUED FOR REVIEW
 FOR AND ON BEHALF OF MERRICK & COMPANY



City of Lone Tree

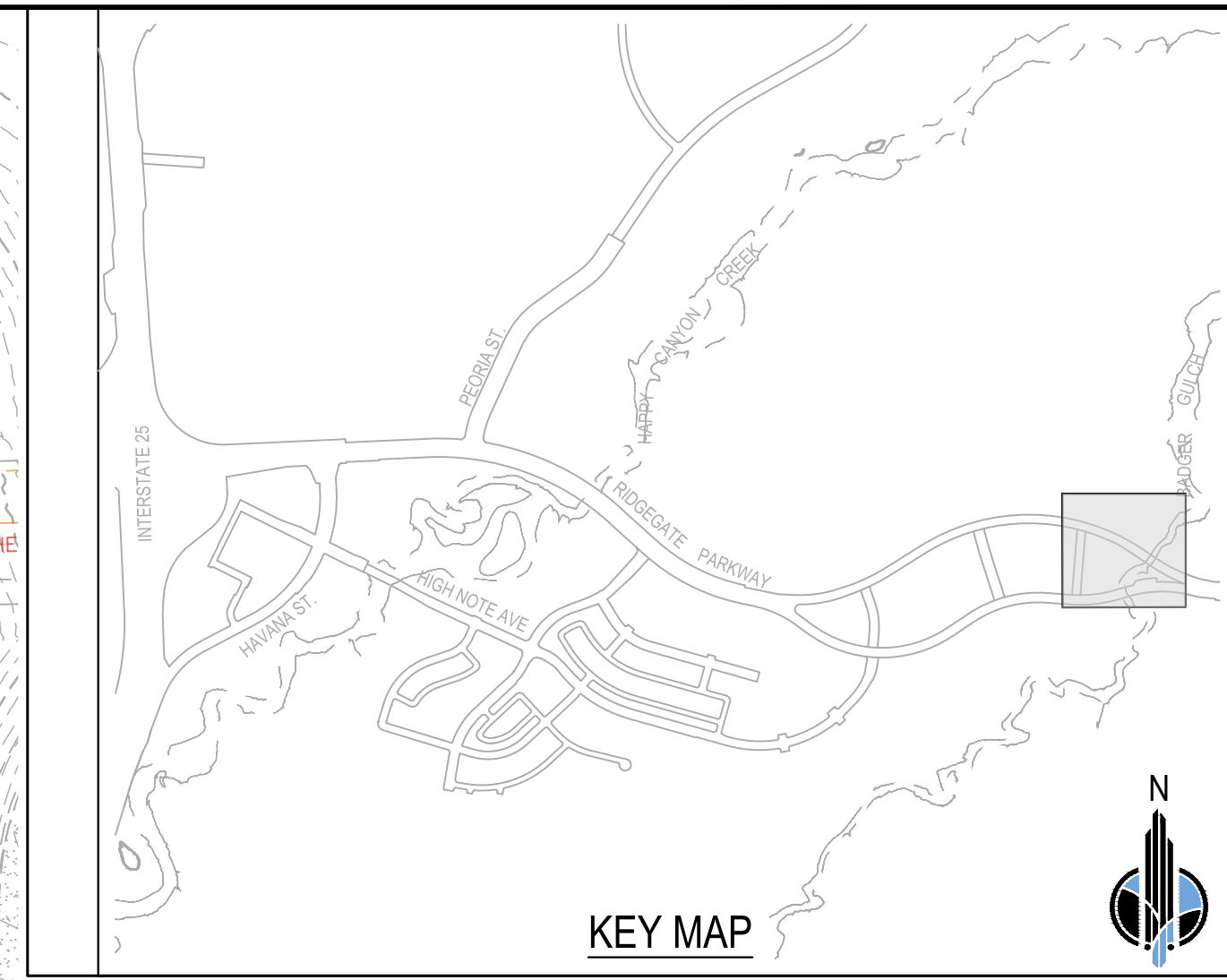
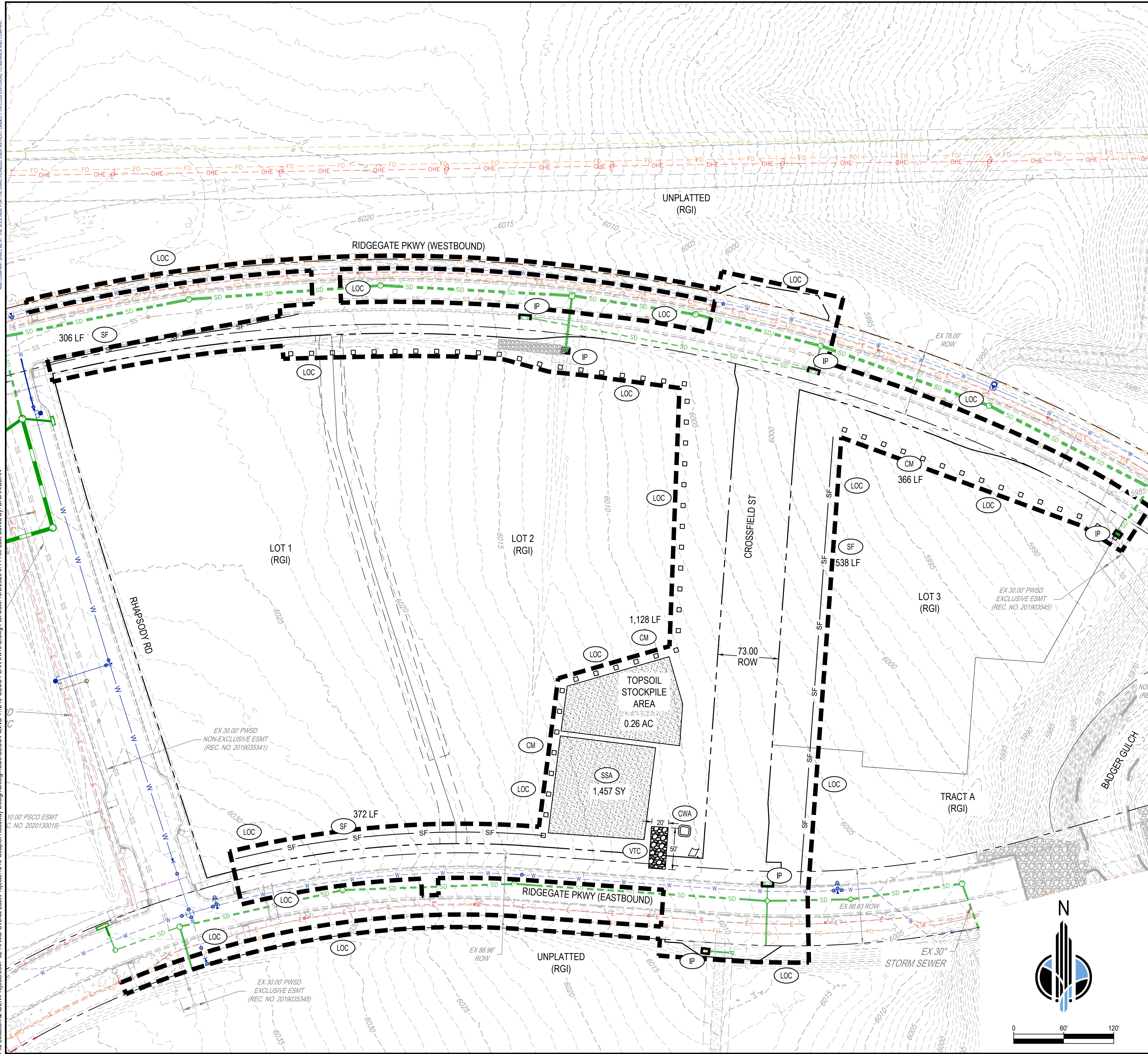
These construction plans have been reviewed by the City of Lone Tree for street and drainage improvements only.

Engineering Division Acceptance Block

JOB NO.: 65121240
 DATE: 9/29/2023
 SHEET: 2 OF 8

THE ABOVE-GRADE EXISTING AREA REPRESENTATION IS AN INSTRUMENT OF SERVICE PROVIDED BY MERRICK AND COMPANY, INC. A SERVICE PROJECT. IT IS NOT INTENDED OR REPRESENTED TO BE SUITABLE FOR REUSE IN WHOLE OR IN PART OR FOR EXTENSION OF THE PROJECT OR ON ANY OTHER PROJECT. REUSE OR MODIFICATION OF ANY INFORMATION WITHOUT THE WRITTEN INSTRUMENT, WITHOUT THE WRITTEN EXPRESS OR IMPLIED CONSENT OF MERRICK AND COMPANY SHALL BE AT THE USER'S SOLE RISK. THIS DOCUMENT IS THE PROPERTY OF MERRICK AND COMPANY AND IS TO BE KEPT CONFIDENTIAL.

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- INITIAL GESC NOTES**
- SEE COVER SHEET OF LONE TREE STANDARD NOTES AND DETAILS (SHEET 1 OF 3) FOR LEGEND OF BMP NAMES AND SYMBOLS.
 - SEE CONSTRUCTION PLANS FOR DETAILS OF PERMANENT DRAINAGE FACILITIES, WATER QUALITY FACILITIES, CULVERTS, STORM DRAINS, AND OUTLET PROTECTION.
 - PORTABLE TOILETS SHALL BE PROVIDED NEAR THE STABILIZED STAGING AREA, PLACED ON A PERVIOUS SURFACE, AND STAKED DOWN ON ALL FOUR SIDES.
 - ALL ADJACENT PAVED ROADS SHALL BE KEPT CLEAN AT ALL TIMES AND TRACKOUT SHALL BE CLEANED IMMEDIATELY USING DRY METHODS.

BMP LEGEND

1- INITIAL BMP	RS ROCK SOCK
2- INTERIM BMP	SB SEDIMENT BASIN
3- FINAL BMP	SCL SEDIMENT CONTROL LOG
CD CHECK DAM	ST SEDIMENT TRAP
CB COMPOST BLANKET	SM SEEDING AND MULCHING
CFB COMPOST FILTER BERM	SF SILT FENCE
CWA CONCRETE WASHOUT AREA	SSA STABILIZED STAGING AREA
CF CONSTRUCTION FENCE	SR SURFACE ROUGHENING
CM CONSTRUCTION MARKER	TSD TEMPORARY SLOPE DRAIN
DW DEWATERING	TSC TEMPORARY STREAM CROSSING
DD DIVERSION DITCH	TER TERRACING
ECB EROSION CONTROL BLANKET	VTC VEHICLE TRACKING CONTROL
IP INLET PROTECTION	WW VTC WITH WHEEL WASH
RCD REINFORCED CHECK DAM	LOC LIMITS OF CONSTRUCTION
RRB REINFORCED ROCK BERM	CUTFILL LIMITS
RRC RRB FOR CULVERT PROTECTION	FLOW DIRECTION

811
Know what's below.
Call before you dig.

City of Lone Tree

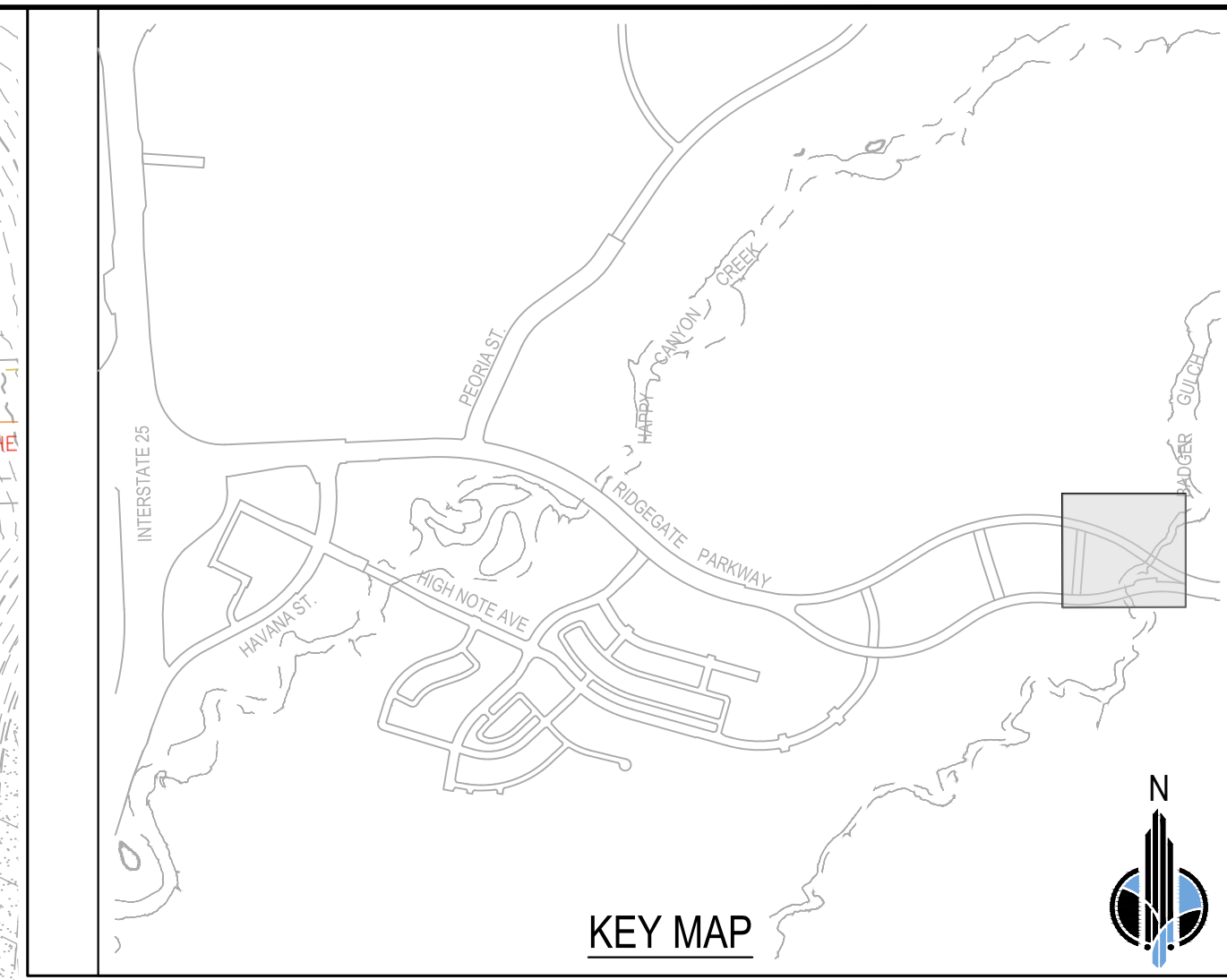
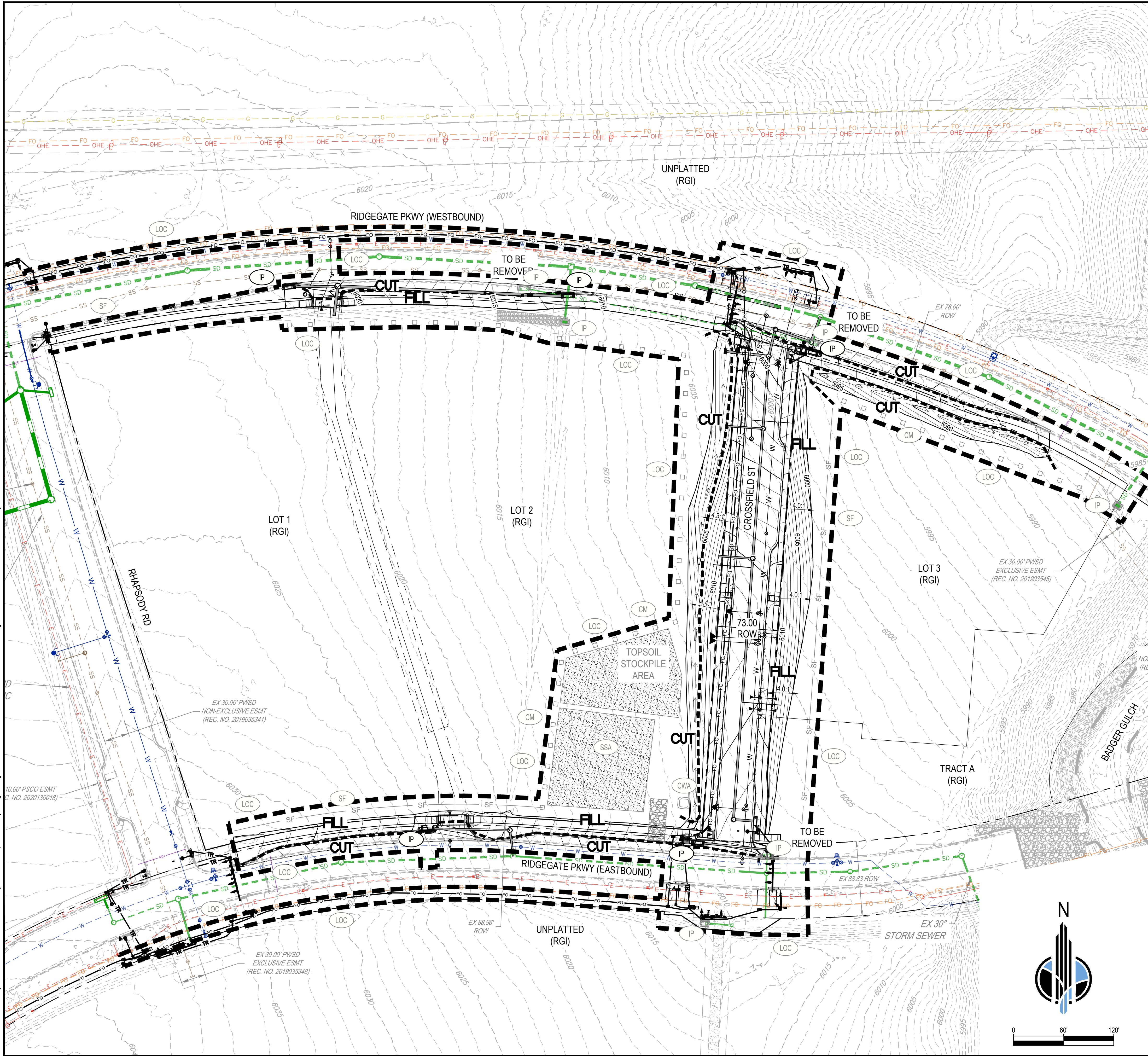
These construction plans have been reviewed by the City of Lone Tree for street and drainage improvements only.

Engineering Division Acceptance Block

DESIGN BY:	BB	DATE	REV	REVISION DESCRIPTION	APPR
DRAWN BY:	NB				
CHECKED BY:	CB				
APPROVED BY:	CB				

RIDGEGATE EAST FILING NO. 4
GRADING, EROSION, AND
SEDIMENT CONTROL PLAN
INITIAL GESC PLAN
EXHIBIT

THE NEW ORANGE COUNTY WATER MANAGEMENT IS AN INSTRUMENT OF SERVICE PROVIDED BY MERRICK AND COMPANY, INC. AS A SERVICE PROJECT. REUSE OR MODIFICATION OF ANY INFORMATION NOT A PART OF THIS INSTRUMENT WITHOUT THE WRITTEN CONSENT OF MERRICK AND COMPANY, INC. IS PROHIBITED. THIS PLAN IS FOR INFORMATION ONLY AND DOES NOT CONSTITUTE A CONTRACT. CONSULT THE CONTRACT DOCUMENTS FOR ALL CONDITIONS, SPECIFICATIONS, AND NOTES.



- #### INTERIM GESC NOTES
- SEE COVER SHEET OF LONE TREE STANDARD NOTES AND DETAILS (SHEET 1 OF 3) FOR LEGEND OF BMP NAMES AND SYMBOLS.
 - SHADED BMPs WERE INSTALLED IN THE INITIAL STAGE AND SHALL BE LEFT IN PLACE IN THE INTERIM STAGE UNLESS OTHERWISE NOTED.
 - ALL INTERIM EROSION AND SEDIMENT CONTROL BMPs INCLUDING DRILL SEEDING AND CRIMP MULCHING OF DISTURBED AREAS MUST BE INSTALLED, INSPECTED, AND APPROVED BY THE CITY PRIOR TO THE ISSUANCE OF A RIGHT-OF-WAY USE AND CONSTRUCTION PERMIT FOR THE PURPOSE OF PAVING OR INSTALLATION OF CURB AND GUTTER.
 - SEE CONSTRUCTION PLANS FOR DETAILS OF PERMANENT DRAINAGE FACILITIES, WATER QUALITY FACILITIES, CULVERTS, STORM DRAINS, AND OUTLET PROTECTION.

SUMMARY OF CUT & FILL VOLUMES

CUT = 875 CY
 FILL = 7,023 CY
 NET = 6,148 CY (FILL)

BMP LEGEND

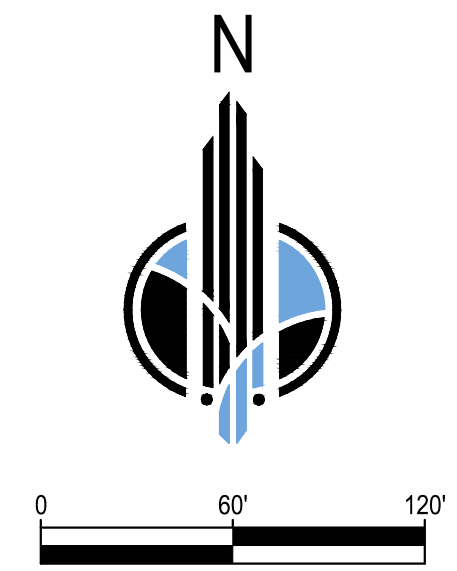
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	INTERIM BMP		SEDIMENT BASIN
	FINAL BMP		SEDIMENT CONTROL LOG
	CHECK DAM		SEDIMENT TRAP
	COMPOST BLANKET		SEEDING AND MULCHING
	COMPOST FILTER BERM		SILT FENCE
	CONCRETE WASHOUT AREA		STABILIZED STAGING AREA
	CONSTRUCTION FENCE		SURFACE ROUGHENING
	CONSTRUCTION MARKER		TEMPORARY SLOPE DRAIN
	DEWATERING		TEMPORARY STREAM CROSSING
	DIVERSION DITCH		TERRACING
	EROSION CONTROL BLANKET		VEHICLE TRACKING CONTROL
	INLET PROTECTION		VTC WITH WHEEL WASH
	REINFORCED CHECK DAM		LIMITS OF CONSTRUCTION
	REINFORCED ROCK BERM		CUT/FILL LIMITS
	RRB FOR CULVERT PROTECTION		FLOW DIRECTION



DESIGN BY:	BB	DRAWN BY:	NB	CHECKED BY:	CB	APPROVED BY:	CB	REV	REVISION DESCRIPTION	DATE	DRWN/CHKD/APPR

RIDGEGATE EAST FILING NO. 4
GRADING, EROSION, AND SEDIMENT CONTROL PLAN
INTERIM GESC PLAN EXHIBIT

ISSUED FOR REVIEW
 FOR AND ON BEHALF OF MERRICK & COMPANY

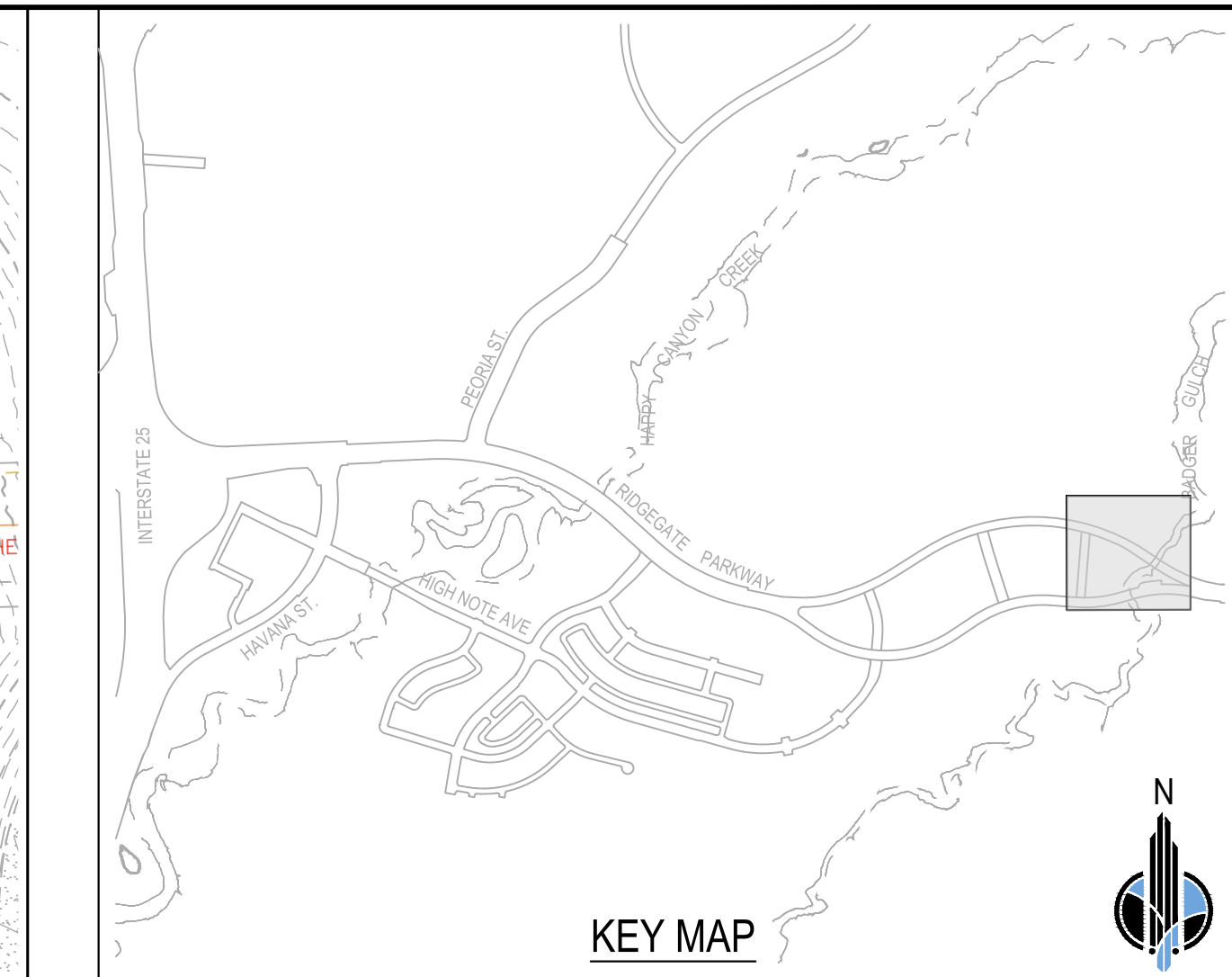
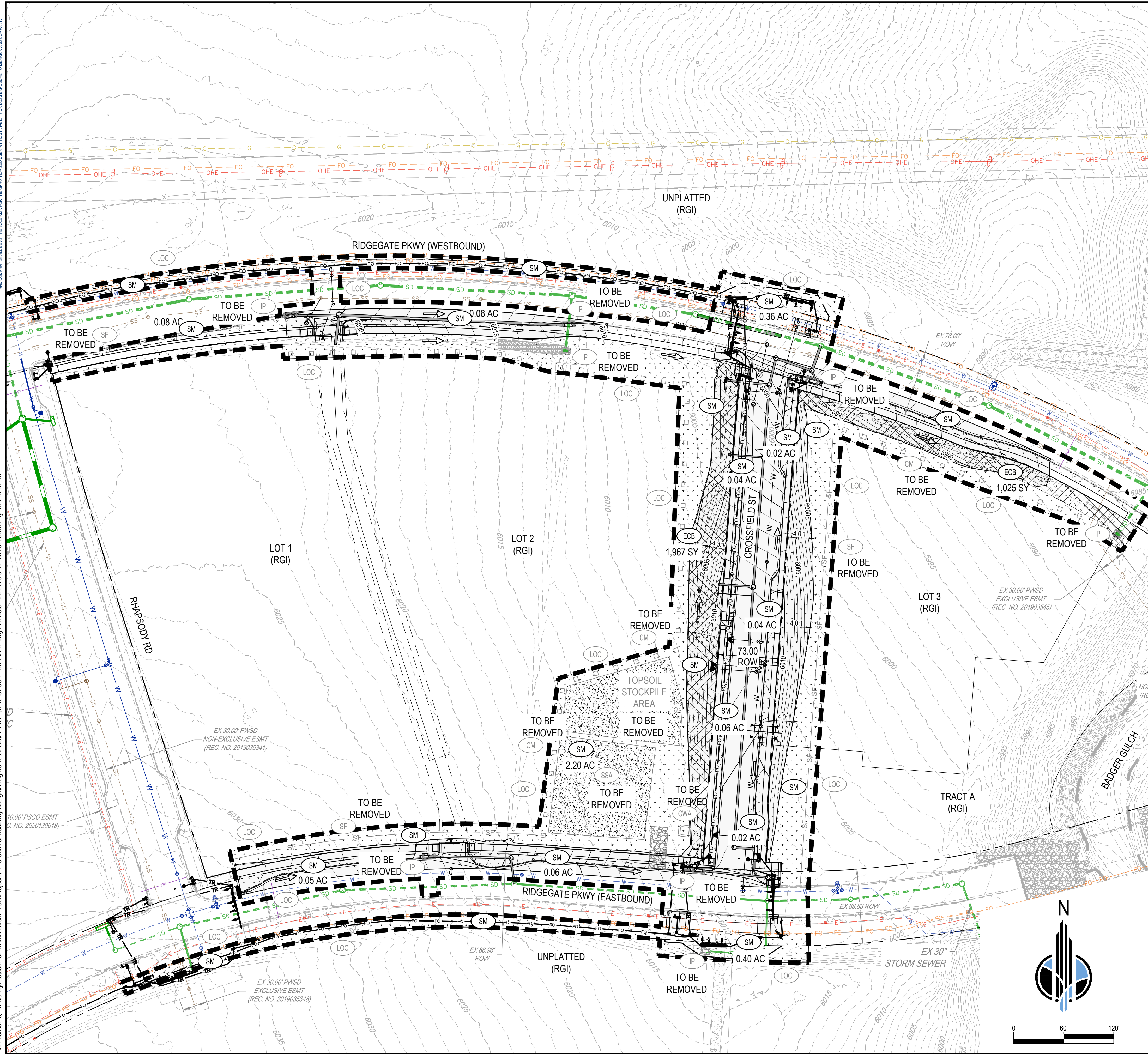


City of Lone Tree
 These construction plans have been reviewed by the City of Lone Tree for street and drainage improvements only.
 Engineering Division Appearance Block

JOB NO.: 65121240
 DATE: 9/29/2023
 SHEET: 4 OF 8

THE CITY OF LONE TREE HAS REVIEWED THIS PLAN FOR CONFORMANCE WITH THE CITY ENGINEERING DEPARTMENT'S STANDARDS AND SPECIFICATIONS FOR THE CITY OF LONE TREE. THIS REVIEW IS LIMITED TO THE TECHNICAL ASPECTS OF THE PLAN AND DOES NOT CONSTITUTE A GUARANTEE OF THE ACCURACY OF THE INFORMATION PROVIDED OR THE SUITABILITY OF THE PLAN FOR ANY PARTICULAR PROJECT. IT IS NOT INTENDED OR REPRESENTED TO BE SUITABLE FOR USE IN ANY OTHER MANNER WITHOUT THE WRITTEN CONSENT OF MERRICK & COMPANY, INC.

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FINAL GESC NOTES

- SEE COVER SHEET OF LONE TREE STANDARD NOTES AND DETAILS (SHEET 1 OF 3) FOR LEGEND OF BMP NAMES AND SYMBOLS.
- BMPs, UNLESS OTHERWISE INDICATED, SHALL BE LEFT IN PLACE UNTIL REVEGETATION ESTABLISHMENT IS APPROVED BY THE CITY.
- SEE CONSTRUCTION PLANS FOR DETAILS OF PERMANENT DRAINAGE FACILITIES, WATER QUALITY FACILITIES, CULVERTS, STORM DRAINS, AND OUTLET PROTECTION.
- THE FOLLOWING BMPs SHALL BE REMOVED AT THE END OF CONSTRUCTION: SSA, VTC, CF, CM, DW, IP, SF, AND SCL.
- ALL INTERIM EROSION AND SEDIMENT CONTROL BMPs INCLUDING DRILL SEEDING AND CRIMP MULCHING OF DISTURBED AREAS MUST BE INSTALLED, INSPECTED, AND APPROVED BY THE CITY PRIOR TO THE ISSUANCE OF A RIGHT-OF-WAY USE AND CONSTRUCTION PERMIT FOR THE PURPOSE OF PAVING OR INSTALLATION OF CURB AND GUTTER.

BMP LEGEND

1- INITIAL BMP	RS ROCK SOCK
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RRC RRB FOR CULVERT PROTECTION	FLOW DIRECTION

MERRICK
 Engineering / Architecture / Design-Build / Surveying / Planning / Geospatial Solutions
 5970 GREENWOOD PLAZA BLVD, GREENWOOD VILLAGE, CO. 80111
 303-751-0741
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**RIDGEGATE EAST FILING NO. 4
 GRADING, EROSION, AND
 SEDIMENT CONTROL PLAN
 FINAL GESC PLAN
 EXHIBIT**

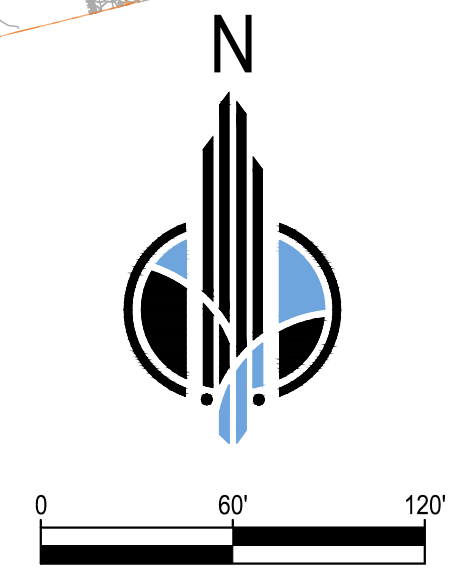
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DATE:	9/29/2023
SHEET:	5 OF 8



City of Lone Tree

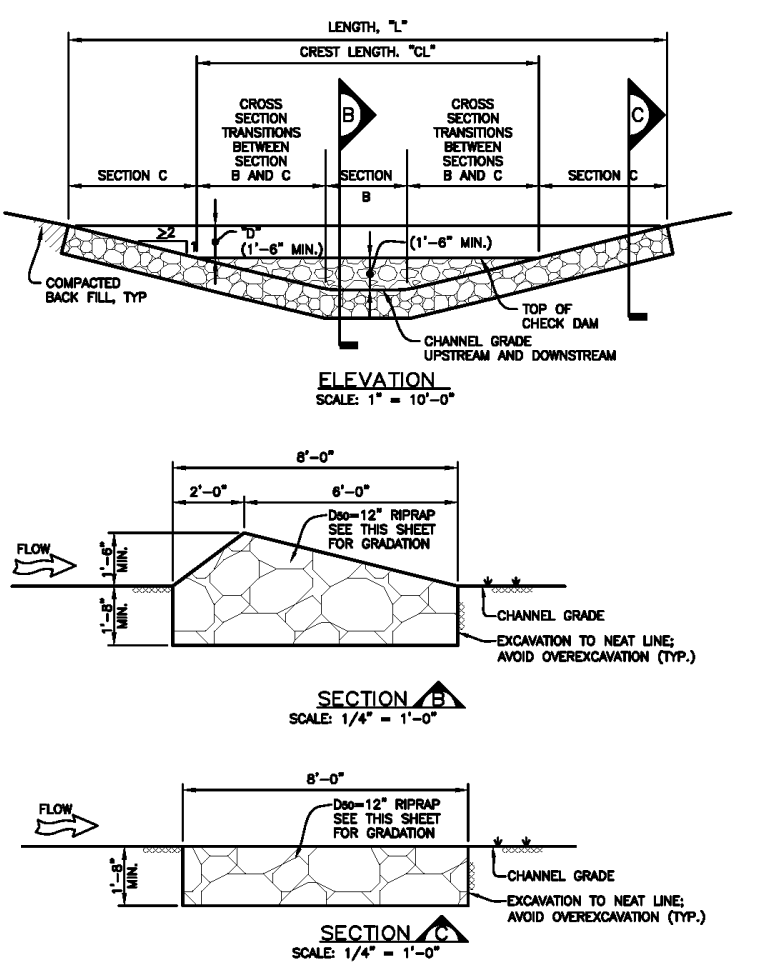
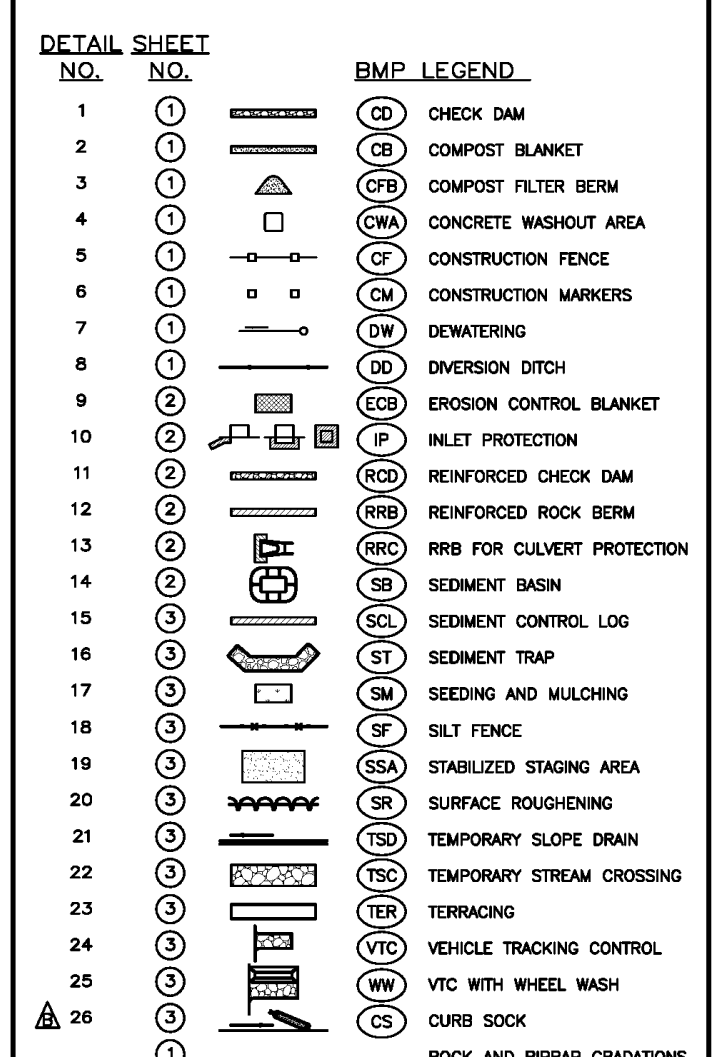
These construction plans have been reviewed by the City of Lone Tree for street and drainage improvements only.

Engineering Division Ascendance Block



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

- THE CITY OF LONE TREE ENGINEER'S SIGNATURE APPLIED TO THIS DOCUMENT INDICATES THE CITY OF LONE TREE ENGINEER HAS REVIEWED THE DOCUMENT AND FOUND IT IN GENERAL COMPLIANCE WITH THE CITY OF LONE TREE SUBDIVISION REGULATIONS AND/OR THE GRADING, EROSION AND SEDIMENT CONTROL (GESC) CRITERIA MANUAL, THE CITY OF LONE TREE ENGINEER, THROUGH ACCEPTANCE OF THIS DOCUMENT, ASSUMES NO RESPONSIBILITY OTHER THAN AS STATED ABOVE FOR THE COMPLETION AND/OR ACCURACY OF THESE DOCUMENTS.
- THE ACCURACY OF THIS GESC PLAN LIES WITH THE ORIGINAL DESIGN ENGINEER.
- THE GESC PLAN SHALL BE CONSIDERED VALID FOR TWO (2) YEARS FROM THE DATE OF ACCEPTANCE BY THE CITY OF LONE TREE. AFTER WHICH THE PLAN SHALL BE VOID AND WILL BE SUBJECT TO RE-REVIEW AND RE-ACCEPTANCE BY THE CITY OF LONE TREE.
- ALL MATERIALS AND WORKMANSHIP SHALL BE SUBJECT TO INSPECTION BY THE CITY OF LONE TREE ENGINEERING DIVISION. THE CITY OF LONE TREE RESERVES THE RIGHT TO ACCEPT OR REJECT ANY SUCH MATERIALS AND WORKMANSHIP THAT DOES NOT CONFORM TO THE GESC MANUAL, GESC PLAN OR GESC PERMIT.
- THE LOCATION OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs) SHALL BE IN ACCORDANCE WITH THE CITY OF LONE TREE - ACCEPTED GESC PLAN AND THE CITY OF LONE TREE ENGINEERING DIVISION.
- ANY SETTLEMENT OR SOIL ACCUMULATIONS BEYOND THE LIMITS OF CONSTRUCTION DUE TO GRADING OR EROSION SHALL BE REPAIRED IMMEDIATELY BY THE GESC MANAGER. THE GESC MANAGER SHALL BE HELD RESPONSIBLE FOR OBTAINING ACCESS RIGHTS TO ADJACENT PROPERTY. IF NEEDED, AND REPAIR ACTIVITIES SHALL BE ADJACENT WATERWAYS, WETLANDS, PROPERTIES, ETC. RESULTING FROM WORK DONE AS PART OF THIS PROJECT.
- A WATER SOURCE SHALL BE AVAILABLE ON SITE DURING EARLY WORK OPERATIONS AND UTILIZED AS REQUIRED TO MINIMIZE DUST FROM EARLYWORK EQUIPMENT AND WIND.
- SOILS THAT WILL BE STOCKPILED FOR MORE THAN THIRY (30) DAYS SHALL BE SEEDED AND MULCHED WITHIN FOURTEEN (14) DAYS OF STOCKPILE CONSTRUCTION. NO STOCKPILES SHALL BE PLACED WITHIN ONE HUNDRED (100) FEET OF A DRAINAGE WAY UNLESS APPROVED BY THE CITY OF LONE TREE ENGINEERING DIVISION.
- ALL CHEMICAL OR HAZARDOUS MATERIAL SPILLS WHICH MAY ENTER WATERS OF THE STATE OF COLORADO, WHICH INCLUDE BUT ARE NOT LIMITED TO, SURFACE WATER, GROUND WATER AND DRY DULLES OR STORM DRAINS LEADING TO SURFACE WATER, SHALL BE IMMEDIATELY REPORTED TO THE COPRE PER CRP #3-801; AND THE CITY OF LONE TREE, READINGS OF PETROLEUM PRODUCTS AND CERTAIN HAZARDOUS SUBSTANCES LISTED UNDER THE FEDERAL CLEAN WATER ACT (40 CFR PART 118) MUST BE REPORTED TO THE NATIONAL RESPONSE CENTER AS WELL AS THE COPRE. THE APPLICABLE CONTACT INFORMATION (SEE APPENDIX A DOUGLAS COUNTY GESC MANUAL - SUBJECT TO CHANGE) IS COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT TOLL-FREE 24-HOUR ENVIRONMENTAL EMERGENCY SPILL REPORTING LINE 1-877-518-8808; NATIONAL RESPONSE CENTER (24-HOUR NATIONAL SPILL RESPONSE) 1-800-424-8802; CITY OF LONE TREE PUBLIC WORKS (303) 662-8112; SPILLS THAT POSE AN IMMEDIATE RISK TO HUMAN LIFE SHALL BE REPORTED TO 911. FAILURE TO REPORT AND CLEAN UP ANY SPILL SHALL RESULT IN ISSUANCE OF A STOP WORK ORDER.
- ALL WORK ON SITE SHALL STAY A MINIMUM OF ONE HUNDRED (100) FEET AWAY FROM ANY DRAINAGE WAY, WETLAND, ETC. UNLESS OTHERWISE NOTED ON AN ACCEPTED CITY OF LONE TREE GESC PLAN.
- ALL PROJECTS SHALL BALANCE EARTHWORK QUANTITIES ON SITE. IN THE EVENT A VARIANCE IS GRANTED BY THE CITY ENGINEER TO ALLOW IMPORT OR EXPORT OF MATERIAL, THE PERMITTEE SHALL HAVE A GESC PERMIT IN HAND FOR THE IMPORT OR EXPORT SITE PRIOR TO ANY TRANSPORTING OF EARTHEN MATERIAL. THE GESC MANAGER SHALL NOTIFY THE CITY OF LONE TREE GESC INSPECTOR OF THE LOCATION AND GESC PERMIT NUMBERS OF BOTH THE EXPORTING AND IMPORTING SITES PRIOR TO ANY IMPORT/EXPORT OPERATIONS.
- THE USE OF REBAR, STEEL STAGES OR STEEL FENCE POSTS FOR STAKING OR SUPPORT OF ANY EROSION OR SEDIMENT CONTROL BMP IS PROHIBITED EXCEPT FENCE POSTS FOR USE IN SUPPORTING CONSTRUCTION FENCES.
- THE CLEANING OF CONCRETE DELIVERY TRUCK CHUTES IS PROHIBITED TO APPROVED CONCRETE WASH OUT LOCATIONS ON THE LOW SIDE. THE DISCHARGE OF WATER CONTAINING WASTE CONCRETE TO THE STORM SEWER SYSTEM IS PROHIBITED. ALL CONCRETE WASTE SHALL BE PROPERLY CLEANED UP AND DISPOSED AT AN APPROPRIATE LOCAL SITE. THIS SHALL BE COORDINATED WITH A CITY OF LONE TREE GESC INSPECTOR AND BE FREE OF SEDIMENT IN ANY OTHER MANNER AS THE GESC CRITERIA MANUAL.
- ALL DISTURBED AREAS SHALL BE DRILL SEEDED AND CRAMP MULCHED IN ACCORDANCE WITH THE DOUGLAS COUNTY GESC MANUAL, CRITERIA AND THE CITY OF LONE TREE SEEDING AND MULCHING DETAIL (17) INCLUDED HEREIN WITHIN THIRTY (30) DAYS OF INITIAL EXPOSURE OR WITHIN SEVEN (7) DAYS OF SUBSTANTIAL COMPLETION (AS DEFINED BY THE CITY OF LONE TREE) OF AN AREA, WHOEVER IS LESS. THIS MAY REQUIRE MULTIPLE MOBILIZATIONS FOR SEEDING AND MULCHING.
- HYDRAULIC SEEDING AND HYDRAULIC MULCHING ARE NOT AN ACCEPTABLE METHOD OF SEEDING OR MULCHING IN THE CITY OF LONE TREE.
- NO CURB AND GUTTER PERMITS SHALL BE ISSUED UNTIL ALL DISTURBED AREAS ARE DRILL SEEDED AND CRAMP MULCHED.
- NO PAVING PERMITS SHALL BE ISSUED UNTIL ALL INTERIM INLET PROTECTION IS INSTALLED AND APPROVED BY THE GESC INSPECTOR.
- A FINAL GESC INSPECTION SHALL BE CONDUCTED A MINIMUM OF TWO WEEKS PRIOR TO THE ANTICIPATED REQUEST FOR CERTIFICATE OF TEMPORARY CERTIFICATE OF OCCUPANCY OR INITIAL ACCEPTANCE.



- #### COMPOST BLANKET NOTES
- SEE PLAN VIEW FOR AREA OF COMPOST BLANKET.
 - MAY BE USED IN PLACE OF STRIP WELCH OR EROSION CONTROL BLANKET IN AREAS WHERE ACCESS IS DIFFICULT DUE TO UNDERGROUND OR OTHER OBJECTS OR IN AREAS WHERE A SHOULDER IS REQUIRED PRIOR TO CONSTRUCTION.
 - SMALL ONLY BE UTILIZED IN AREAS WHERE SHEET FLOW CONDITIONS PREVAIL; THESE CONDITIONS MUST BE MAINTAINED THROUGHOUT CONSTRUCTION.
 - SOIL PREPARATION SHALL BE COMPLETE FOR THE SPECIFICATIONS OUTLINED IN THESE DETAILS PRIOR TO APPLICATION.
 - WHEN TUFFESS FINESS IS NOT DETERMINED, SURFACE ROUGHENING ON SLOPES SHALL BE EVENLY APPLIED AT A DEPTH OF 2 INCHES.
 - MAY BE APPLIED UTILIZING PNEUMATIC BLOWER, OR BY HAND.
 - COMPOST FILTER BERM SHALL BE INSTALLED ON SLOPES WITH A MINIMUM STABILITY INDICATOR AS DEFINED BY THE FOLLOWING PHYSICAL, CHEMICAL, AND BIOLOGICAL PARAMETERS:
 - COMPOST USED IN THE APPLICATION OF THE COMPOST FILTER BERM SHALL BE A CLASS I COMPOST AS DEFINED BY THE FOLLOWING PHYSICAL, CHEMICAL, AND BIOLOGICAL PARAMETERS:

PARAMETER	CLASS I COMPOST FOR COMPOST BLANKET
MINIMUM STABILITY INDICATOR	STABLE TO VERY STABLE
SOIL SOLS	MINIMUM 50%
CEC	2.0
MATURITY INDICATOR EXPRESSED AS PERCENTAGE OF COMPOST	80%/80+
MATURITY INDICATOR EXPRESSED AS AMMONIA NITROGEN (NH3-N) IN MG/L	< 4
MATURITY INDICATOR EXPRESSED AS AMMONIA NITROGEN (NH3-N) IN MG/L (TESTED FOR CLOSTRIDIA)	200
MATURITY INDICATOR EXPRESSED AS NH3-N/NEGATIVE RESULT	NO/NEGATIVE RESULT
MOISTURE CONTENT	30-60 %
ORGANIC MATTER CONTENT	30-45 % DRY WEIGHT
PERCENTAGE OF PARTICLES	NO. 20 (75um) LOOK PASSING
ORGANIC MATTER CONTROL	3/4" (19mm) MAX TO SOIL PASSING
SOIL SIZE DISTRIBUTION	NO. 20 (75um) TO SOIL PASSING

PARAMETER	CLASS II COMPOST FOR COMPOST FILTER BERM
MINIMUM STABILITY INDICATOR	STABLE TO VERY STABLE
SOIL SOLS	MINIMUM 50%
CEC	2.0
MATURITY INDICATOR EXPRESSED AS PERCENTAGE OF COMPOST	80%/80+
MATURITY INDICATOR EXPRESSED AS AMMONIA NITROGEN (NH3-N) IN MG/L	< 4
MATURITY INDICATOR EXPRESSED AS AMMONIA NITROGEN (NH3-N) IN MG/L (TESTED FOR CLOSTRIDIA)	200
MATURITY INDICATOR EXPRESSED AS NH3-N/NEGATIVE RESULT	NO/NEGATIVE RESULT
MOISTURE CONTENT	30-60 %
ORGANIC MATTER CONTENT	30-45 % DRY WEIGHT
PERCENTAGE OF PARTICLES	NO. 20 (75um) LOOK PASSING
ORGANIC MATTER CONTROL	3/4" (19mm) MAX TO SOIL PASSING
SOIL SIZE DISTRIBUTION	NO. 20 (75um) TO SOIL PASSING

- #### COMPOST FILTER BERM NOTES
- SEE PLAN VIEW FOR LENGTH OF COMPOST FILTER BERM.
 - SHALL BE APPLIED TO ALL SLOPES REQUIRING A COMPOST BLANKET AT 15' INTERVALS.
 - FILTER BERMS SHALL RUN PARALLEL TO THE CONTOUR.
 - FILTER BERMS SHALL BE A MINIMUM OF 1' x 2' W.
 - FILTER BERMS SHALL BE APPLIED UTILIZING PNEUMATIC BLOWER, OR BY HAND.
 - SMALL ONLY BE UTILIZED IN AREAS WHERE SHEET FLOW CONDITIONS PREVAIL; THESE CONDITIONS MUST BE MAINTAINED THROUGHOUT CONSTRUCTION.
 - SOIL PREPARATION SHALL BE COMPLETE FOR THE SPECIFICATIONS OUTLINED IN THESE DETAILS PRIOR TO APPLICATION.
 - WHEN TUFFESS FINESS IS NOT DETERMINED, SURFACE ROUGHENING ON SLOPES SHALL BE EVENLY APPLIED AT A DEPTH OF 2 INCHES.
 - MAY BE APPLIED UTILIZING PNEUMATIC BLOWER, OR BY HAND.
 - COMPOST FILTER BERM SHALL BE INSTALLED ON SLOPES WITH A MINIMUM STABILITY INDICATOR AS DEFINED BY THE FOLLOWING PHYSICAL, CHEMICAL, AND BIOLOGICAL PARAMETERS:
 - COMPOST USED IN THE APPLICATION OF THE COMPOST FILTER BERM SHALL BE A CLASS I COMPOST AS DEFINED BY THE FOLLOWING PHYSICAL, CHEMICAL, AND BIOLOGICAL PARAMETERS:

PARAMETER	CLASS I COMPOST FOR COMPOST FILTER BERM
MINIMUM STABILITY INDICATOR	STABLE TO VERY STABLE
SOIL SOLS	MINIMUM 50%
CEC	2.0
MATURITY INDICATOR EXPRESSED AS PERCENTAGE OF COMPOST	80%/80+
MATURITY INDICATOR EXPRESSED AS AMMONIA NITROGEN (NH3-N) IN MG/L	< 4
MATURITY INDICATOR EXPRESSED AS AMMONIA NITROGEN (NH3-N) IN MG/L (TESTED FOR CLOSTRIDIA)	200
MATURITY INDICATOR EXPRESSED AS NH3-N/NEGATIVE RESULT	NO/NEGATIVE RESULT
MOISTURE CONTENT	30-60 %
ORGANIC MATTER CONTENT	30-45 % DRY WEIGHT
PERCENTAGE OF PARTICLES	NO. 20 (75um) LOOK PASSING
ORGANIC MATTER CONTROL	3/4" (19mm) MAX TO SOIL PASSING
SOIL SIZE DISTRIBUTION	NO. 20 (75um) TO SOIL PASSING

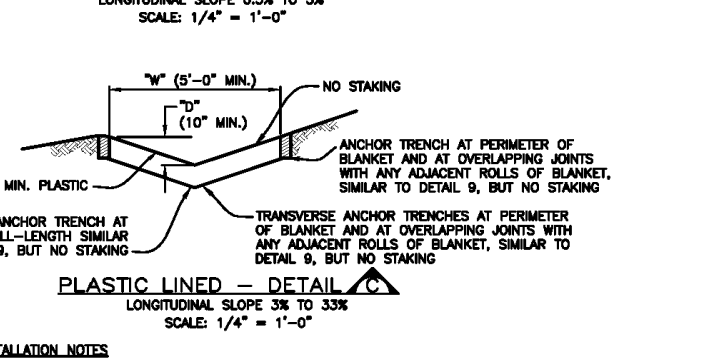
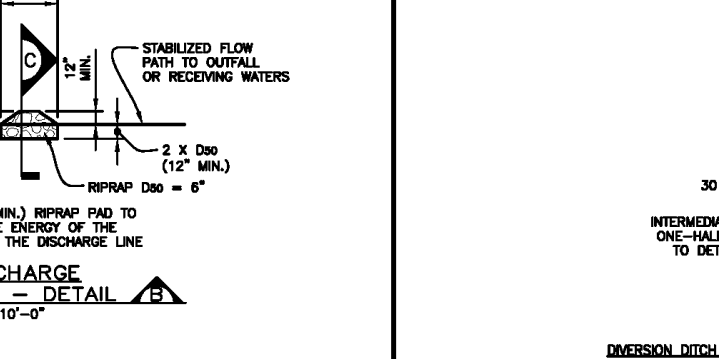
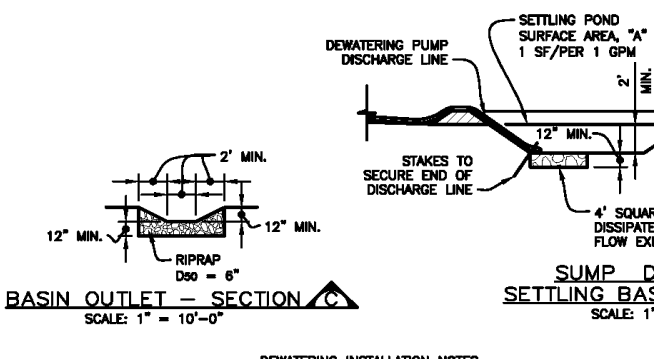
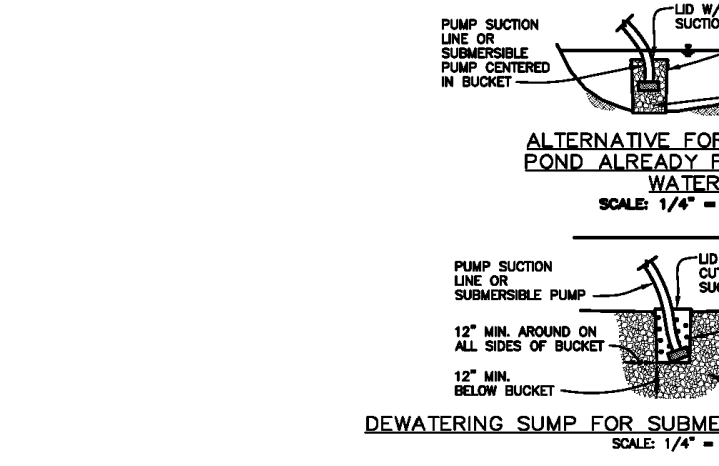
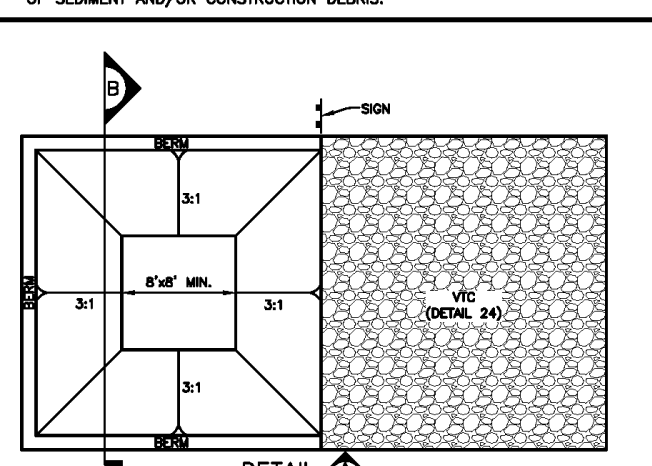


TABLE 1. RIPRAP GRADATIONS

DESIGN SPEED (MPH)	% OF MATERIAL (TYPICAL)	TYPICAL STONE DIAMETER (INCHES)	TYPICAL STONE WEIGHT (POUNDS)
6	5-10" (30% - 20%)	12"	45
	10-15" (20% - 10%)	18"	135
	15-20" (10% - 5%)	24"	270
9	5-10" (30% - 20%)	12"	45
	10-15" (20% - 10%)	18"	135
	15-20" (10% - 5%)	24"	270
12	5-10" (30% - 20%)	12"	45
	10-15" (20% - 10%)	18"	135
	15-20" (10% - 5%)	24"	270
18	5-10" (30% - 20%)	12"	45
	10-15" (20% - 10%)	18"	135
	15-20" (10% - 5%)	24"	270
24	5-10" (30% - 20%)	12"	45
	10-15" (20% - 10%)	18"	135
	15-20" (10% - 5%)	24"	270

TABLE 2. RIPRAP BEDDING

STONE SIZE	MINIMUM PERCENT PASSING SQUARE MESH SIZES
CLASS A	
3"	100
1 1/2"	20 - 80
3/4"	0 - 20
NO. 200	0 - 3

TABLE 3. 1 1/2" CRUSHED ROCK

STONE SIZE	MINIMUM PERCENT PASSING SQUARE MESH SIZES
CLASS A	
1 1/2"	100
3/4"	20 - 80
3/8"	0 - 15
NO. 4	0 - 5

ROCK AND RIPRAP GRADATIONS

NO.	DATE	DESCRIPTION	BY
6/30/05		ADOPTED FROM DOUGLAS COUNTY GESC PLANS	MLP
5/ /08		EDIT UPDATES	GAW
11/ /08		ADD CURB SOCK DETAIL (REF. UDFD, V3 FIGURE CS-23), MISC. NOTE EDITS	GAW

NOTE: SCALES SHOWN ARE FOR 24"x36" SHEETS; ADJUST ACCORDINGLY FOR 11"x17" SHEETS.



GESC PLAN STANDARD NOTES AND DETAILS

GRADING, EROSION, AND SEDIMENT CONTROL

CITY OF LONE TREE

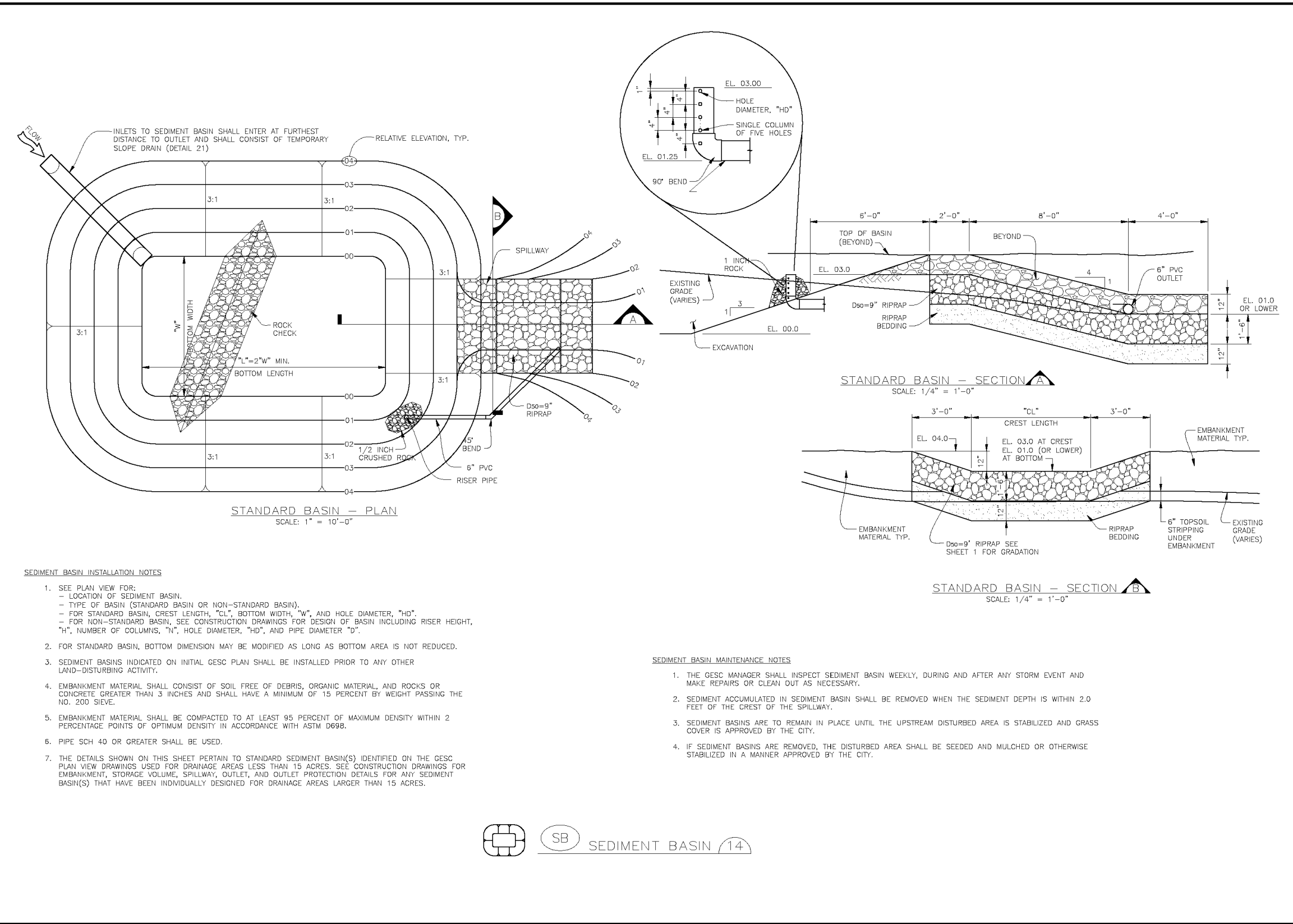
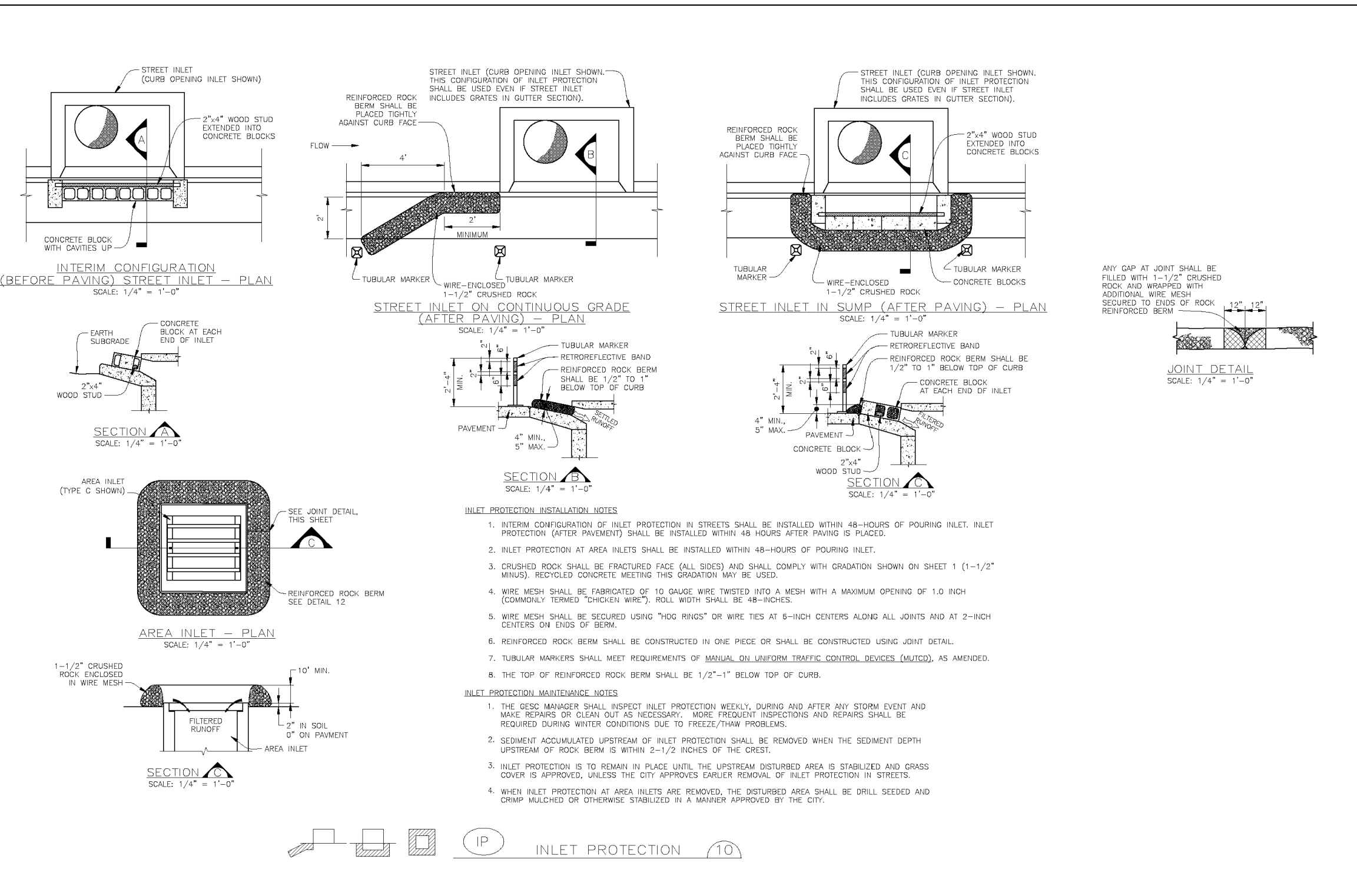
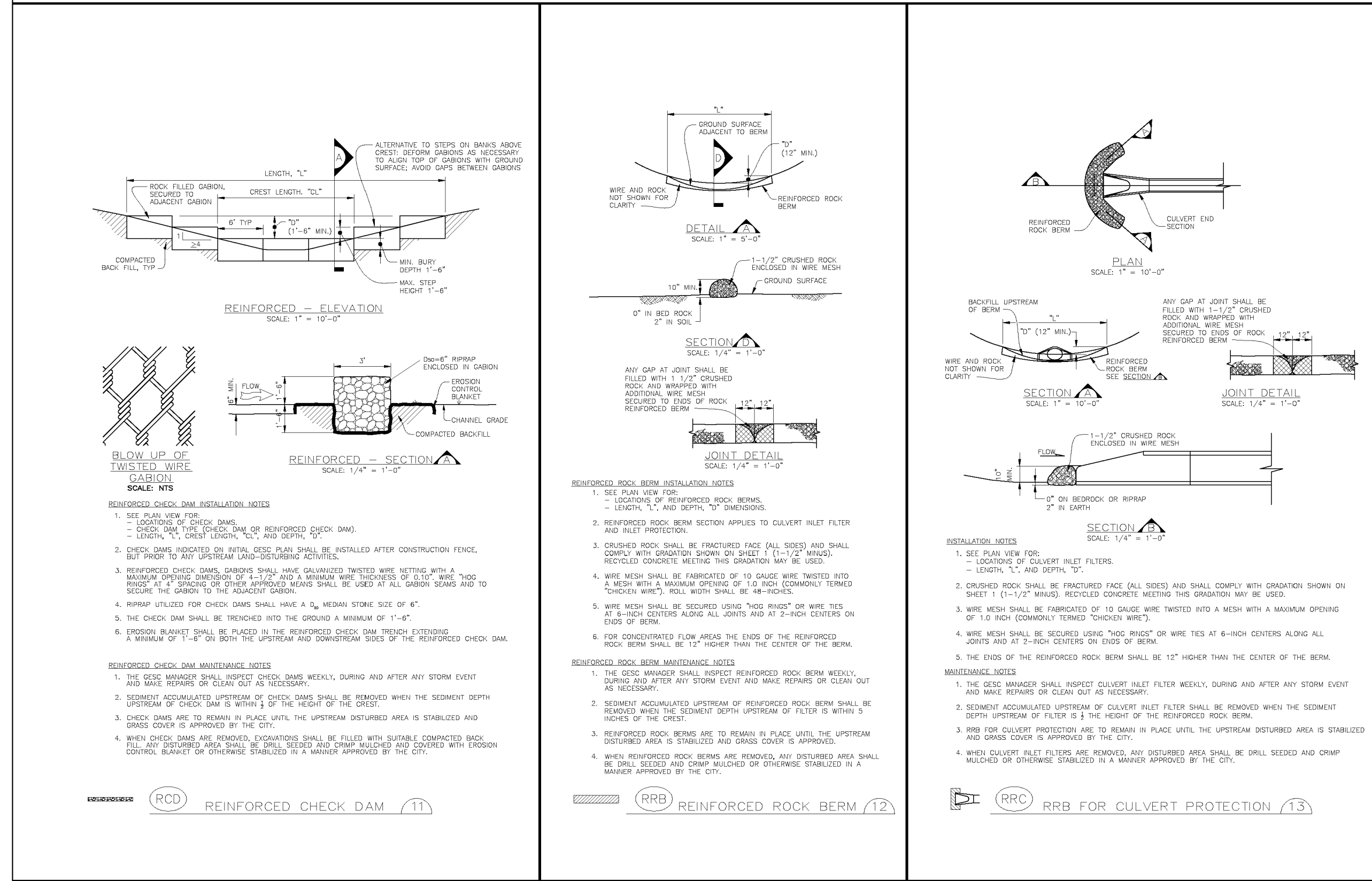
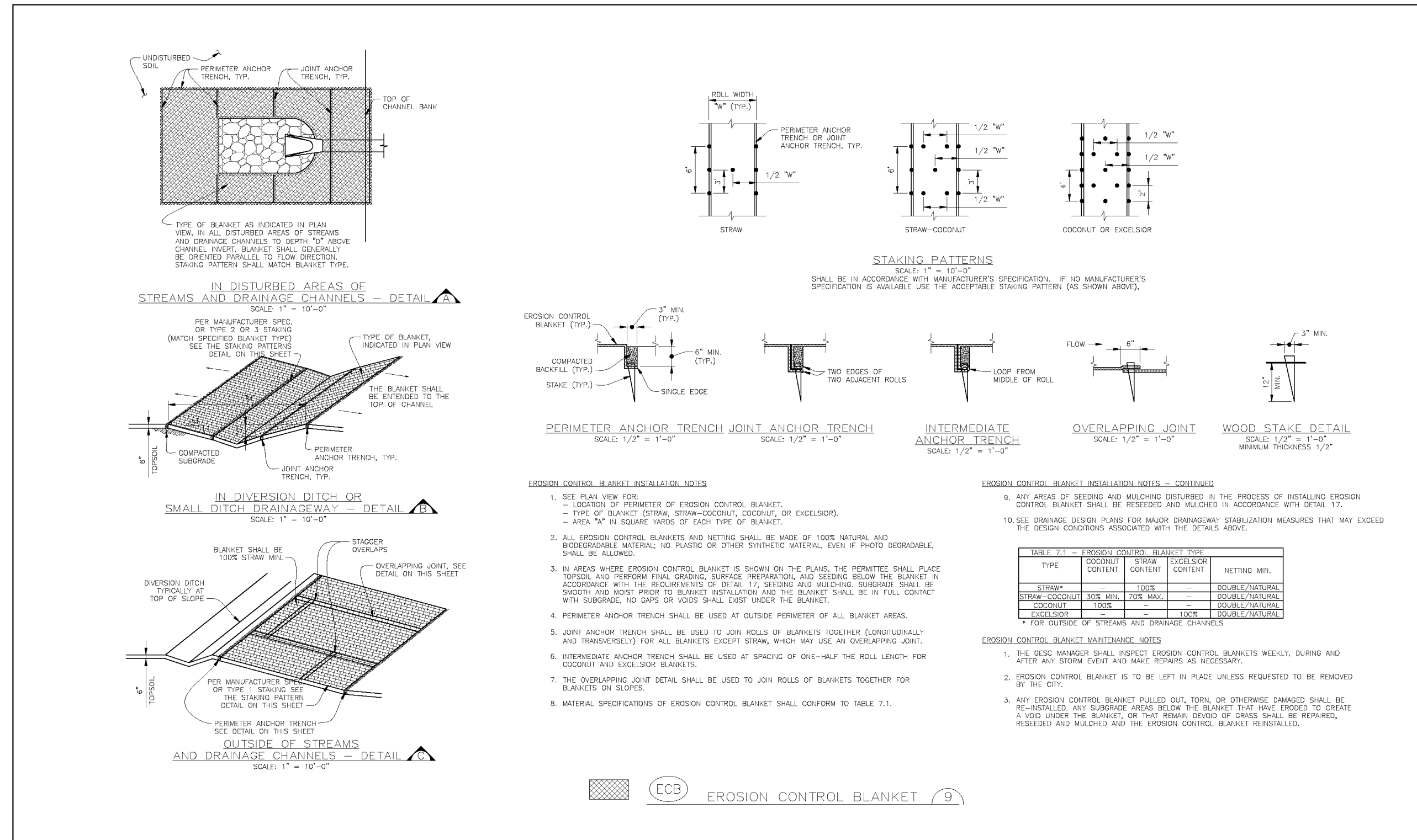
GESC DETAIL 1 OF 3



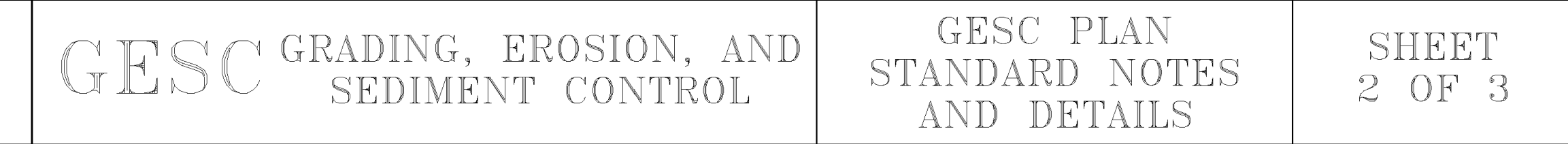
DATE: 9/29/2023 SHEET: 6 OF 8

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File Location: D:\DEN\Projects\5097-702-RRWD Overall East\Projects\1240-GESC-DTL.dwg Plot Date: 10/3/2023 9:45 AM Last Saved By: BBERN



Sheet Revisions		NOTES: SCALES SHOWN ARE FOR 24"x36" SHEETS; ADJUST ACCORDINGLY FOR 11"x17" SHEETS.
8/30/05	ADOPTED FROM DOUGLAS COUNTY GESC PLANS	
5/ /08	EDIT UPDATES	
11/ /08	ADD CURB SOCK DETAIL (REF UDFCD, V3 FIGURE C5-23), MISC. NOTE EDITS	



CITY OF LONE TREE

DEPARTMENT OF PUBLIC WORKS

Engineering Division

GESC GRADING, EROSION, AND SEDIMENT CONTROL

GESC PLAN STANDARD NOTES AND DETAILS

SHEET 2 OF 3

JOB NO.:	65121240	DATE:	9/29/2023	SHEET:	7 OF 8
DESIGN BY:	BB	CHECKED BY:	CB	DATE:	DRW/CHKD/APPR
DRAWN BY:	NB	APPROVED BY:	CB	REV	DESCRIPTION
<p>RIDGEGATE EAST FILING NO. 4</p> <p>GRADING, EROSION, AND SEDIMENT CONTROL PLAN</p> <p>CITY OF LONE TREE</p> <p>GESC DETAIL 2</p>					

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DRAWN BY:	NB	APPROVED BY:	CB	REV	DESCRIPTION
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