

GRADING & EROSION CONTROL PLANS MAYBERRY, COLORADO - FILING NO. 3

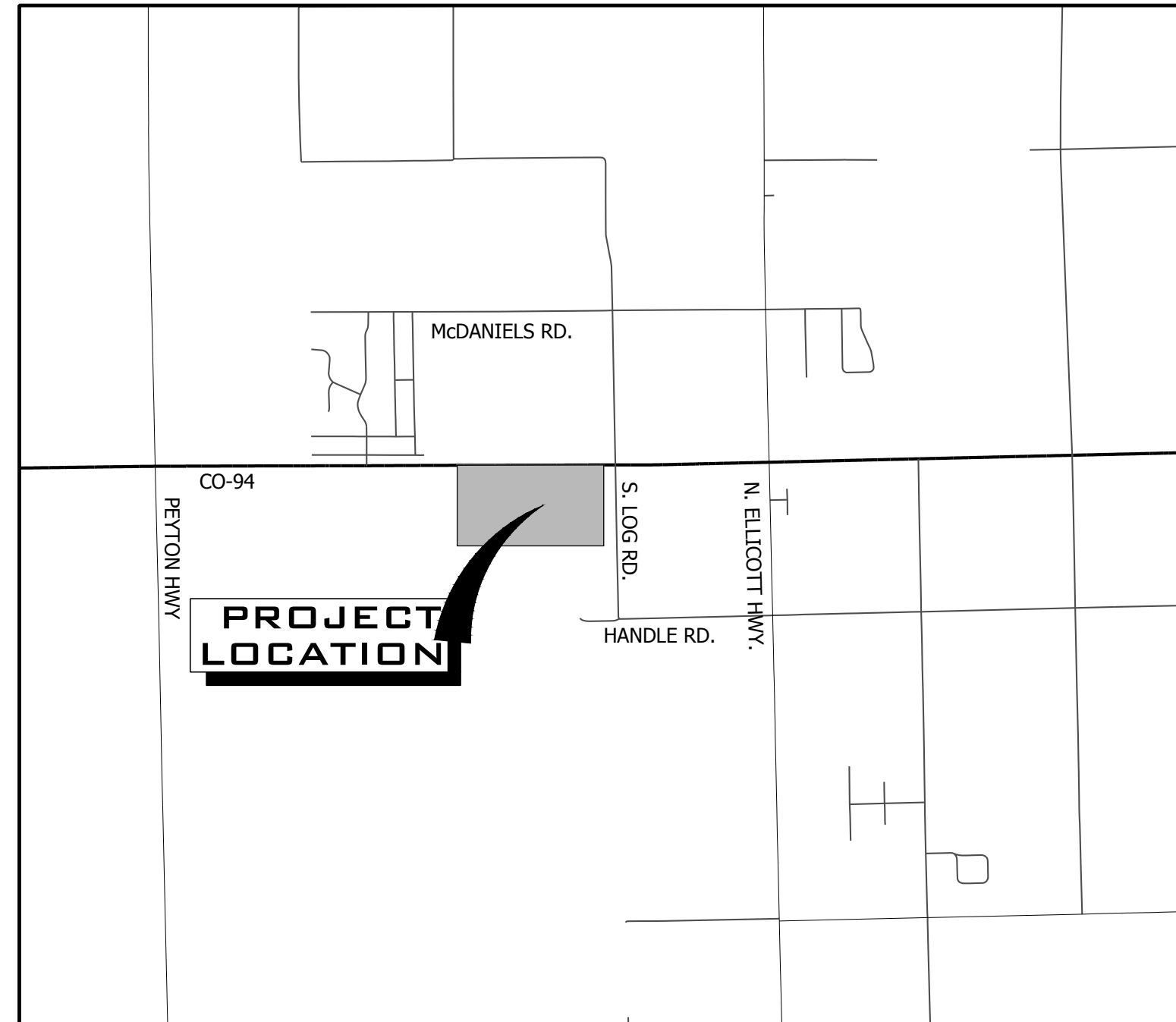
A REPLAT OF PART OF TRACT M AND ALL OF TRACT P, MAYBERRY, COLORADO SPRINGS FILING NO. 1, AND ALL OF TRACTS A, B, C AND D, MAYBERRY, COLORADO SPRINGS FILING NO. 2, AND THAT PART OF SPRINGS ROAD RIGHT-OF-WAY LYING SOUTH OF SAID TRACT A AND THAT PART OF VILLAGE MAIN STREET RIGHT-OF-WAY LYING EAST OF ATCHISON WAY ALL LOCATED IN THE NORTH HALF OF SECTION 14, TOWNSHIP 14 SOUTH, RANGE 63 WEST OF THE 6TH PRINCIPAL MERIDIAN COUNTY OF EL PASO (UNINCORPORATED), STATE OF COLORADO

EPC STORMWATER REVIEW COMMENTS
IN ORANGE BOXES WITH BLACK TEXT

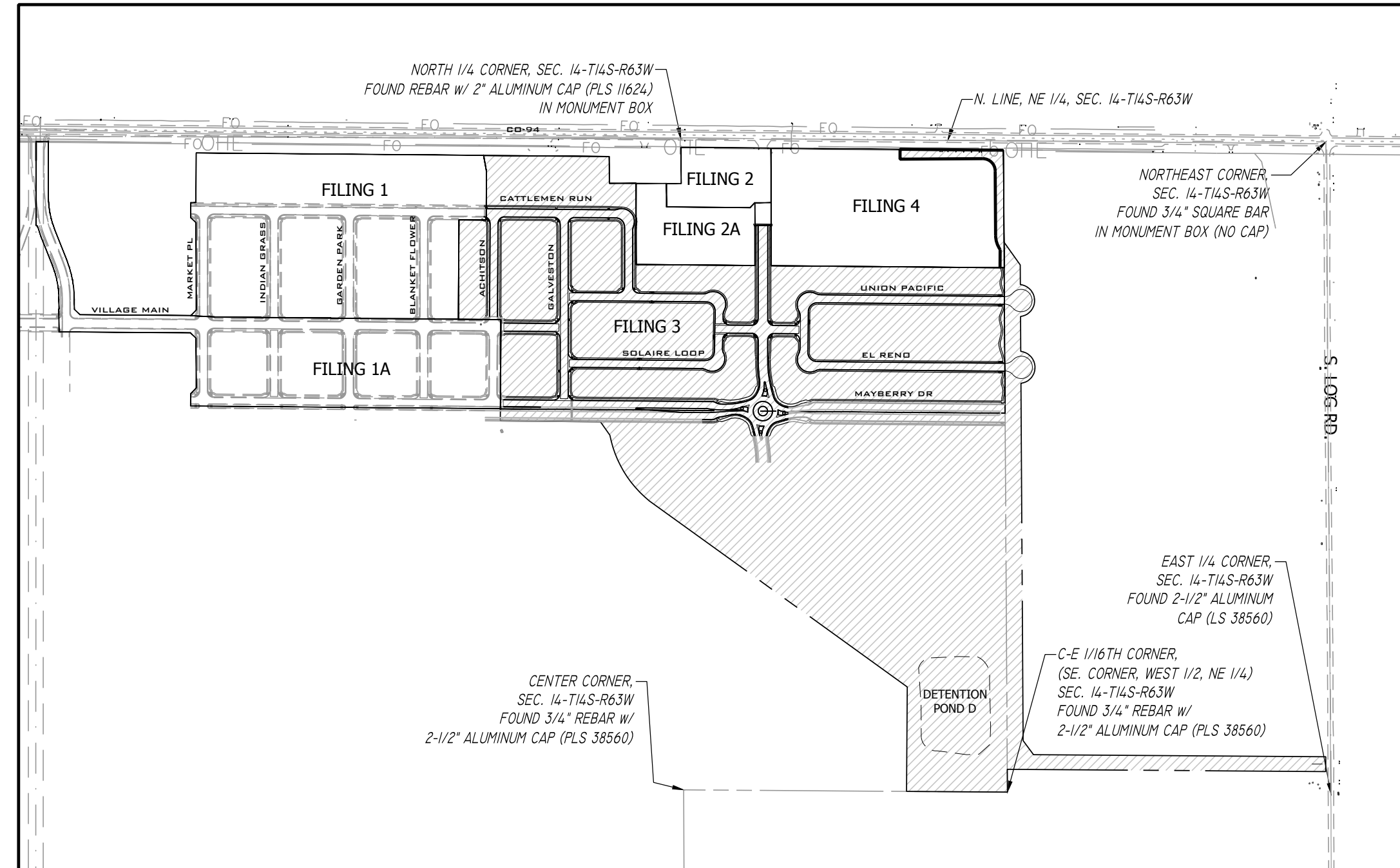


Know what's below.
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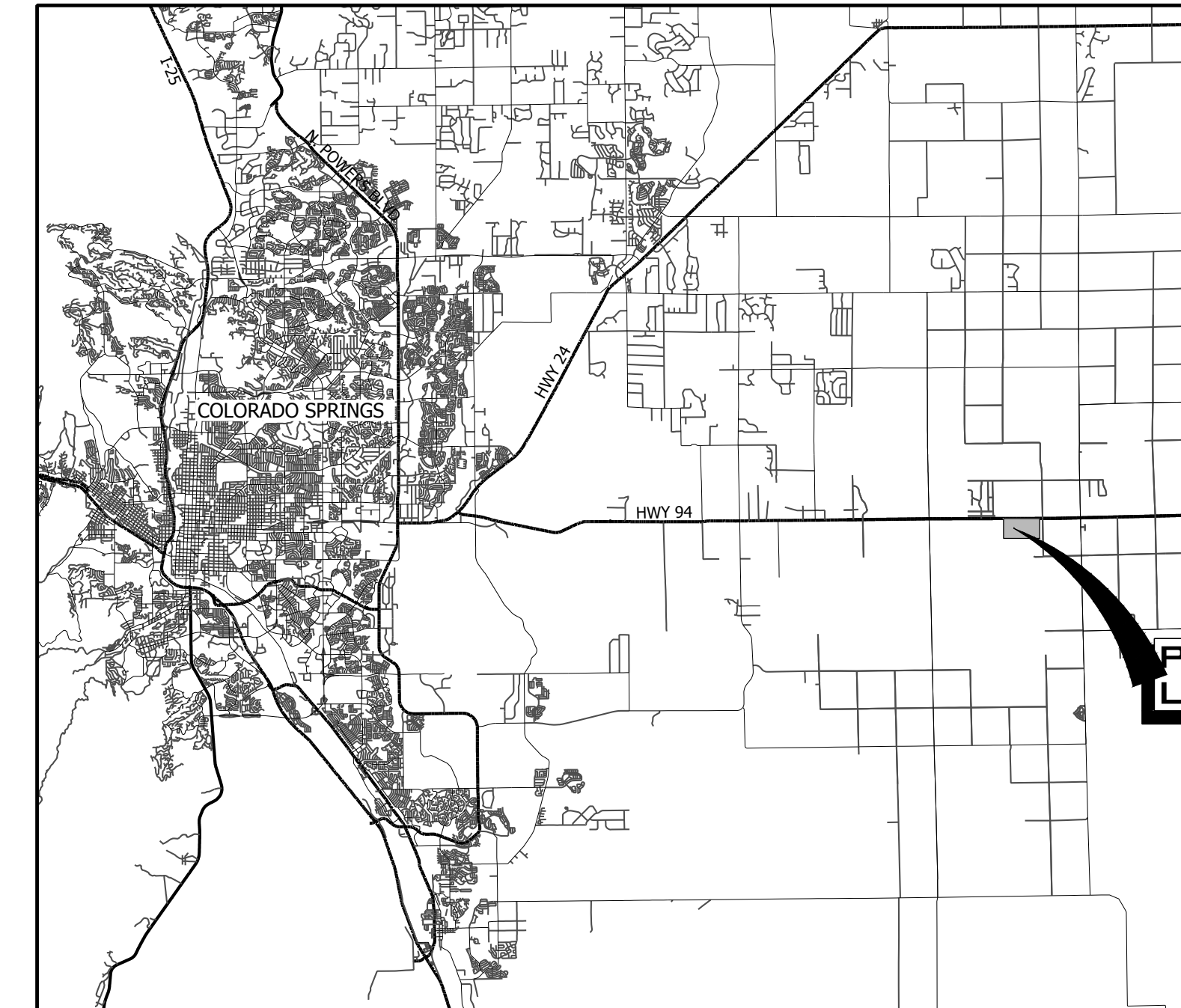
NO.	REVISION	DATE
2ND SUBMISSION		09/01/22
3RD SUBMISSION		01/17/23



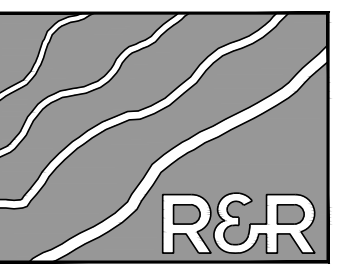
VICINITY MAP
SCALE 1" = 5,000'



SITE MAP
SCALE 1" = 500'



VICINITY MAP
SCALE 1" = 20,000'



ENGINEERS
SURVEYORS

R&R ENGINEERS-SURVEYORS, INC.
1635 WEST 13TH AVENUE, SUITE 310
DENVER, COLORADO 80204
PHONE: 303-753-6730

WWW.RRENGINEERS.COM

CONTACT LIST

DEVELOPER	CIVIL ENGINEER	SURVEYOR	COUNTY ENGINEERING
MAYBERRY COMMUNITIES, LLC	R&R ENGINEERS-SURVEYORS, LLC	R&R ENGINEERS-SURVEYORS, LLC	EL PASO COUNTY DEVELOPMENT SERVICES
3296 DIVINE HEIGHTS #208 COLORADO SPRINGS, CO 80922 719-922-2181 CONTACT: SCOTT SOUDERS, P.E.	1635 WEST 13TH AVENUE, SUITE 310 DENVER, CO 80204 303-753-6730 CONTACT: CLIF DAYTON, P.E.	1635 13TH AVENUE, SUITE 310 DENVER, CO 80204 303-753-6730 CONTACT: MR. DARELL DeLAP	2880 INTERNATIONAL CIRCLE COLORADO SPRINGS, CO 80922 719-520-6300
STATE HIGHWAY	WATER/WASTEWATER	GAS DEPARTMENT	ELECTRIC DEPARTMENT
COLORADO DEPARTMENT OF TRANSPORTATION, REGION 2	ELLICOTT UTILITIES COMPANY, LLC	BLACK HILLS ENERGY	MOUNTAIN VIEW ELECTRIC ASSOCIATION
5615 WILLS BLVD. PUEBLO, CO 81008 MR. ART GONZALES (REFERENCE CDOT ACCESS PERMITS NO. 218053 & 218054)	719-426-7810 CONTACT: JASON KVOLS	1515 WYNKOOP ST #500 DENVER, CO 80202 719-359-3176 CONTACT: SEBASTIAN SCHWENDER	11140 E. WOODMEN ROAD COLORADO SPRINGS, CO 80908 719-495-2283 CONTACT: MR. DAVE WALDNER

Sheet List Table

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PCD FILE NO. SF2219

Engineer's Statement (for standalone GEC Plan):
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.

Clif Dayton, P.E. #48189 _____ Date _____

Owner's Statement (for standalone GEC Plan):
I, the owner/developer have read and will comply with the requirements of the Grading and Erosion Control Plan.

Owner Signature _____ Date _____

El Paso County:
County plan review is provided only for general conformance with County Design Criteria. The County is not responsible for the accuracy and adequacy of the design, dimensions, and/or elevations which shall be confirmed at the job site. The County through the approval of this document assumes no responsibility for completeness and/or accuracy of this document.

Filed in accordance with the requirements of the El Paso County Land Development Code, Drainage Criteria 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. _____ Date _____
County Engineer/ECM Administrator

P:\14-P\M2210\MAYBERRY_FILING_NO_3\ENGINEERING\DRAWINGS\PLANS\GDS - COVER & NOTES\M2210 - CR - CD.DWG, PLOT DATE: 1/17/2023, 12:02:21 PM, BILLY LAM, CDRADY

BENCHMARK:
NGS Benchmark PID: JK003, Designation: Z 76
Disk Stamped Z 76 1935 in top of concrete monument.
Project Elevation: 6041.98 Feet
Elevation Note: Project Vertical Datum is based upon previous surveys conducted by Rampart Surveys LLC where the elevation of 6041.98 feet was established on this benchmark. This elevation has been verified by R&R Engineers and Surveyors by running closed bench level loops from Z 76 to other aerial control points that were used for the topographic survey and design on previous projects. The current NGS published elevation was Not Used.
Benchmark Located in the Southeast quadrant of the intersection of State Highway 94 and Log Road. The benchmark lies 65.5 feet South and 30 feet East of the intersection.
Horizontal Values:
State Plane 1983 Central Coordinate Values in US Survey Feet:
Grid Northing: 1367803.3380' Grid Easting: 3311725.4580'
Project Coordinate Values in US Survey Feet:
Northing: 1368261.2691' Easting: 3312880.8395'

BASIS OF BEARING:
Bearings are based on the North line of the Northeast Quarter of Section 14, Township 14 South, Range 63 West of the 6th Principal Meridian having a bearing of South 89° 44' 50" East as shown on the recorded plats of Mayberry, Colorado Springs Filing No. 1 recorded as Reception No. 220714655 and as shown on Mayberry, Colorado Springs Filing No. 2 recorded as Reception No. 221714698, said North line having a ground distance of 2606.58 feet and monumented at each end as shown on sheet 2 of the Mayberry, Colorado Springs Filing No. 3 Plat.

MAYBERRY PUD PH 1 - FILING NO. 3

SITE ADDRESS: MAYBERRY, COLORADO SPRINGS
EL PASO COUNTY

PREPARED FOR: MAYBERRY COMMUNITIES, LLC
3296 DIVINE HEIGHTS #208
COLORADO SPRINGS, CO 80922

GESC PLANS	
JOB NO.	MC22110
ORG. SUBM. DATE	06/16/2022
DWN:	LAO
CHKD:	CJD
NAME	

GESC COVER SHEET

NO.

C8.0



Know what's below.
Call before you dig.

EL PASO COUNTY GRADING & EROSION CONTROL STANDARD NOTES:

- 1. STORMWATER DISCHARGES FROM CONSTRUCTION SITES SHALL NOT CAUSE OR THREATEN TO CAUSE POLLUTION, CONTAMINATION, OR DEGRADATION OF STATE WATERS. ALL WORK AND EARTH DISTURBANCE SHALL BE DONE IN A MANNER THAT MINIMIZES POLLUTION OF ANY ON-SITE OR OFF-SITE WATERS, INCLUDING WETLANDS.
2. 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 FROM REGULATIONS AND STANDARDS MUST BE REQUESTED, AND APPROVED, IN WRITING.
3. A SEPARATE STORMWATER MANAGEMENT PLAN (SMWP) FOR THIS PROJECT SHALL BE COMPLETED AND AN EROSION AND STORMWATER QUALITY CONTROL PERMIT (ESQCP) ISSUED PRIOR TO COMMENCING CONSTRUCTION. MANAGEMENT OF THE SMWP DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE DESIGNATED QUALIFIED STORMWATER MANAGER OR CERTIFIED EROSION CONTROL INSPECTOR. THE SMWP 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.
4. 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.
5. CONTROL MEASURES MUST BE INSTALLED PRIOR TO COMMENCEMENT OF ACTIVITIES THAT COULD CONTRIBUTE POLLUTANTS TO STORMWATER. CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES, AND DISTURBED LAND AREAS SHALL BE INSTALLED IMMEDIATELY UPON COMPLETION OF THE DISTURBANCE.
6. 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 ARE 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.
7. 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.
8. 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 PLANT DENSITY OF 70 PERCENT OF PRE-DISTURBANCE LEVELS ESTABLISHED OR EQUIVALENT PERMANENT ALTERNATIVE STABILIZATION METHOD IS IMPLEMENTED. ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SHALL BE REMOVED UPON FINAL STABILIZATION AND BEFORE PERMIT CLOSURE.
9. ALL PERMANENT STORMWATER MANAGEMENT FACILITIES SHALL BE INSTALLED AS DESIGNED IN THE APPROVED PLANS. ANY PROPOSED CHANGES THAT AFFECT THE DESIGN OR FUNCTION OF PERMANENT STORMWATER MANAGEMENT STRUCTURES MUST BE APPROVED BY THE ECM ADMINISTRATOR PRIOR TO IMPLEMENTATION.
10. EARTH DISTURBANCES 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 SHOWN TO BE INFEASIBLE AND SPECIFICALLY REQUESTED AND APPROVED.
11. 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 MEASURES SHALL ALSO BE PROTECTED FROM SEDIMENTATION DURING CONSTRUCTION UNTIL FINAL STABILIZATION IS ACHIEVED. IF COMPACTION PREVENTION IS NOT FEASIBLE DUE TO SITE CONSTRAINTS, ALL AREAS DESIGNATED FOR INFILTRATION AND VEGETATION CONTROL MEASURES MUST BE LOOSENED PRIOR TO INSTALLATION OF THE CONTROL MEASURE(S).
12. 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.
13. CONCRETE WASH WATER SHALL BE CONTAINED AND DISPOSED OF IN ACCORDANCE WITH THE SWMP. NO WASH WATER SHALL BE DISCHARGED TO OR ALLOWED TO ENTER STATE WATERS, INCLUDING ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR FACILITIES. CONCRETE WASHOUTS SHALL NOT BE LOCATED IN AN AREA WHERE SHALLOW GROUNDWATER MAY BE PRESENT, OR WITHIN 50 FEET OF A SURFACE WATER BODY, CREEK OR STREAM.
14. DURING DEWATERING OPERATIONS, UNCONTAMINATED GROUNDWATER MAY BE DISCHARGED ON-SITE, BUT SHALL NOT LEAVE THE SITE IN THE FORM OF SURFACE RUNOFF UNLESS AN APPROVED STATE DEWATERING PERMIT IS IN PLACE.
15. EROSION CONTROL BLANKETING OR OTHER PROTECTIVE COVERING SHALL BE USED ON SLOPES STEEPER THAN 3:1.
16. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL WASTES FROM THE CONSTRUCTION SITE FOR DISPOSAL IN ACCORDANCE WITH LOCAL AND STATE REGULATORY REQUIREMENTS. NO CONSTRUCTION DEBRIS, TREE SLASH, BUILDING MATERIAL WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURIED, DUMPED, OR DISCHARGED AT THE SITE.
17. 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.
18. TRACKING OF SOILS AND CONSTRUCTION DEBRIS OFF-SITE SHALL BE MINIMIZED. MATERIALS TRACKED OFF-SITE SHALL BE CLEANED UP AND PROPERLY DISPOSED OF IMMEDIATELY.
19. THE OWNER/DEVELOPER SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL CONSTRUCTION DEBRIS, DIRT, TRASH, ROCK, SEDIMENT, SOIL, AND SAND THAT MAY ACCUMULATE IN ROADS, STORM DRAINS AND OTHER DRAINAGE CONVEYANCE SYSTEMS AND STORMWATER APPURTENANCES AS A RESULT OF SITE DEVELOPMENT.
20. 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.
21. NO CHEMICAL(S) HAVING THE POTENTIAL TO BE RELEASED IN STORMWATER ARE TO BE STORED OR USED ON-SITE UNLESS PERMISSION FOR THE USE OF SUCH CHEMICAL(S) IS GRANTED IN WRITING BY THE ECM ADMINISTRATOR. IN GRANTING APPROVAL FOR THE USE OF SUCH CHEMICAL(S), SPECIAL CONDITIONS AND MONITORING MAY BE REQUIRED.
22. BULK STORAGE OF ALLOWED PETROLEUM PRODUCTS OR OTHER ALLOWED LIQUID CHEMICALS IN EXCESS OF 55 GALLONS SHALL REQUIRE ADEQUATE SECONDARY CONTAINMENT PROTECTION TO CONTAIN ALL SPILLS ON-SITE AND TO PREVENT ANY SPILLED MATERIALS FROM ENTERING STATE WATERS, ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR OTHER FACILITIES.
23. NO PERSON SHALL CAUSE THE IMPEDIMENT OF STORMWATER FLOW IN THE CURB AND GUTTER OR DITCH EXCEPT WITH APPROVED SEDIMENT CONTROL MEASURES.
24. 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 OF THE LAND DEVELOPMENT CODE, DCM VOLUME II AND THE ECM APPENDIX I. ALL APPROPRIATE PERMITS MUST BE OBTAINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION (1041, NPDES, FLOODPLAIN, 404, FUGITIVE DUST, ETC.). IN THE EVENT OF CONFLICTS BETWEEN THESE REQUIREMENTS AND OTHER LAWS, RULES, OR REGULATIONS OF OTHER FEDERAL, STATE, LOCAL, OR COUNTY AGENCIES, THE MOST RESTRICTIVE LAWS, RULES, OR REGULATIONS SHALL APPLY.
25. ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE ONLY AT APPROVED CONSTRUCTION ACCESS POINTS.
26. PRIOR TO CONSTRUCTION THE PERMITTEE SHALL VERIFY THE LOCATION OF EXISTING UTILITIES.
27. A WATER SOURCE SHALL BE AVAILABLE ON-SITE DURING EARTHWORK OPERATIONS AND SHALL BE UTILIZED AS REQUIRED TO MINIMIZE DUST FROM EARTHWORK EQUIPMENT AND WIND.
28. THE SOILS REPORT FOR THIS SITE HAS BEEN PREPARED BY [COMPANY NAME, DATE OF REPORT] AND SHALL BE CONSIDERED A PART OF THESE PLANS.
29. AT LEAST TEN (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 (SMWP), OF WHICH THIS GRADING AND EROSION CONTROL PLAN MAY BE A PART. FOR INFORMATION OR APPLICATION MATERIALS CONTACT:

COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT
WATER QUALITY CONTROL DIVISION
WQCD - PERMITS
4300 CHERRY CREEK DRIVE SOUTH
DENVER, CO 80246-1530
ATTN: PERMITS UNIT

CTL Thompson, dated February 6, 2019

i dont see these on the plans

MASTER LEGEND

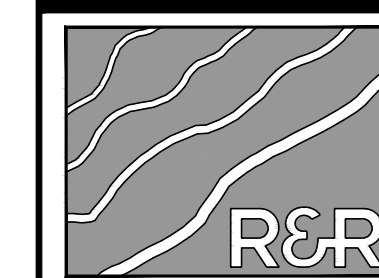
Table with 3 columns: EXISTING, DESCRIPTION, PROPOSED. Lists various construction elements like PROPERTY LINE, LOT LINE, RIGHT OF WAY, CENTERLINE, FLOOD PLAIN, LIMITS OF DISTURBANCE, SWALE / STREAM FLOWLINE, OVERFLOW RELIEF PATH, FENCE LINE, EASEMENT, EDGE OF PAVEMENT, VERTICAL CURB AND GUTTER, MOUNTABLE CURB AND GUTTER, SPILL GUTTER, TRANSITION GUTTER, CONCRETE SIDEWALK, HANDICAP PARKING, SIGHT TRIANGLE, SIGN(S), PARKING COUNT INDICATOR, MAJOR CONTOUR, MINOR CONTOUR, GRADE BREAK, SPOT ELEVATION, RIP RAP, WATER LINE, WATER METER, WATER VALVE, WATER REDUCER, WATER FITTINGS, FIRE HYDRANT, SANITARY LINE, SANITARY MANHOLE, SANITARY CLEANOUT, STORM SEWER PIPE, STORM SEWER MANHOLE, STORM SEWER INLET, STORM SEWER FLARED END SECTION, STORM SEWER HEADWALL, UNDERGROUND ELECTRIC, OVERHEAD ELECTRIC, UTILITY POLE, STREET LIGHT, CABLE TV SERVICE, TELECOM SERVICE, FIBER OPTIC SERVICE, NATURAL GAS SERVICE, DRY UTILITIES ALIGNMENT, TRANSFORMER & PEDESTAL, TREE, TREE LINE.

BMP LEGEND

Table with 3 columns: Symbol, Code, Description. Lists Best Management Practices like ROCK CHECK DAM, COMPOST BLANKET, COMPOST FILTER BERM, CONCRETE WASHOUT AREA, CONSTRUCTION FENCE, CONSTRUCTION MARKERS, DEWATERING, DIVERSION DITCH, ROCK AND RIPRAP GRADATIONS, EROSION CONTROL BLANKET, INLET PROTECTION, REINFORCED CHECK DAM, REINFORCED ROCK BERM, RRB FOR CULVERT PROTECTION, SEDIMENT BASIN, SEDIMENT CONTROL LOG, SEDIMENT TRAP, SEEDING AND MULCHING, SILT FENCE, STABILIZED STAGING AREA, SURFACE ROUGHENING, TEMPORARY ROAD CROSSING, TEMPORARY SLOPE DRAIN, TEMPORARY STREAM CROSSING, TERRACING, VEHICLE TRACKING CONTROL, VTC WITH WHEEL WASH, A LOT EROSION CONTROL, B LOT EROSION CONTROL, LIMITS OF CONSTRUCTION/LIMITS OF DISTURBANCE, TEMPORARY SEEDING, CURB SOCK, PROP. STORMWATER FLOW ARROWS, EX. STORMWATER FLOW ARROWS, PROP. CUT/FILL BOUNDARY.

PLAN: P:\MC2210 - MAYBERRY - FILING NO. 3\ENGINEERING\DRAWINGS\PLANS\GDS - GEC - PLANS\MC2210 - GEC - NOTES.DWG, PLOT DATE: 1/12/2023 12:02:21 PM, BSL:WAK, G:GRADY

Table with columns: NO., REVISION, BY, DATE. Shows revision history for 2ND and 3RD SUBMISSION.



ENGINEERS SURVEYORS

R&R ENGINEERS-SURVEYORS, INC.
1635 WEST 13TH AVENUE, SUITE 310
DENVER, COLORADO 80204
PHONE: 303-753-6730

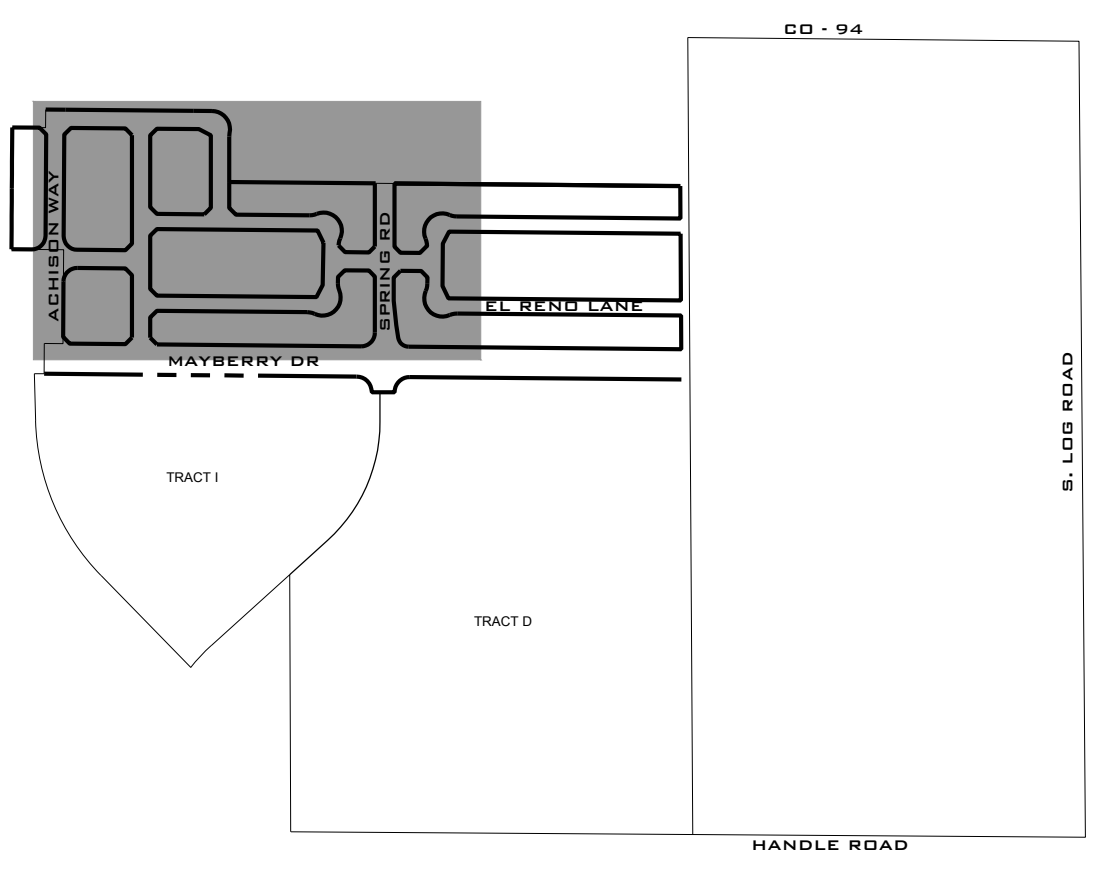
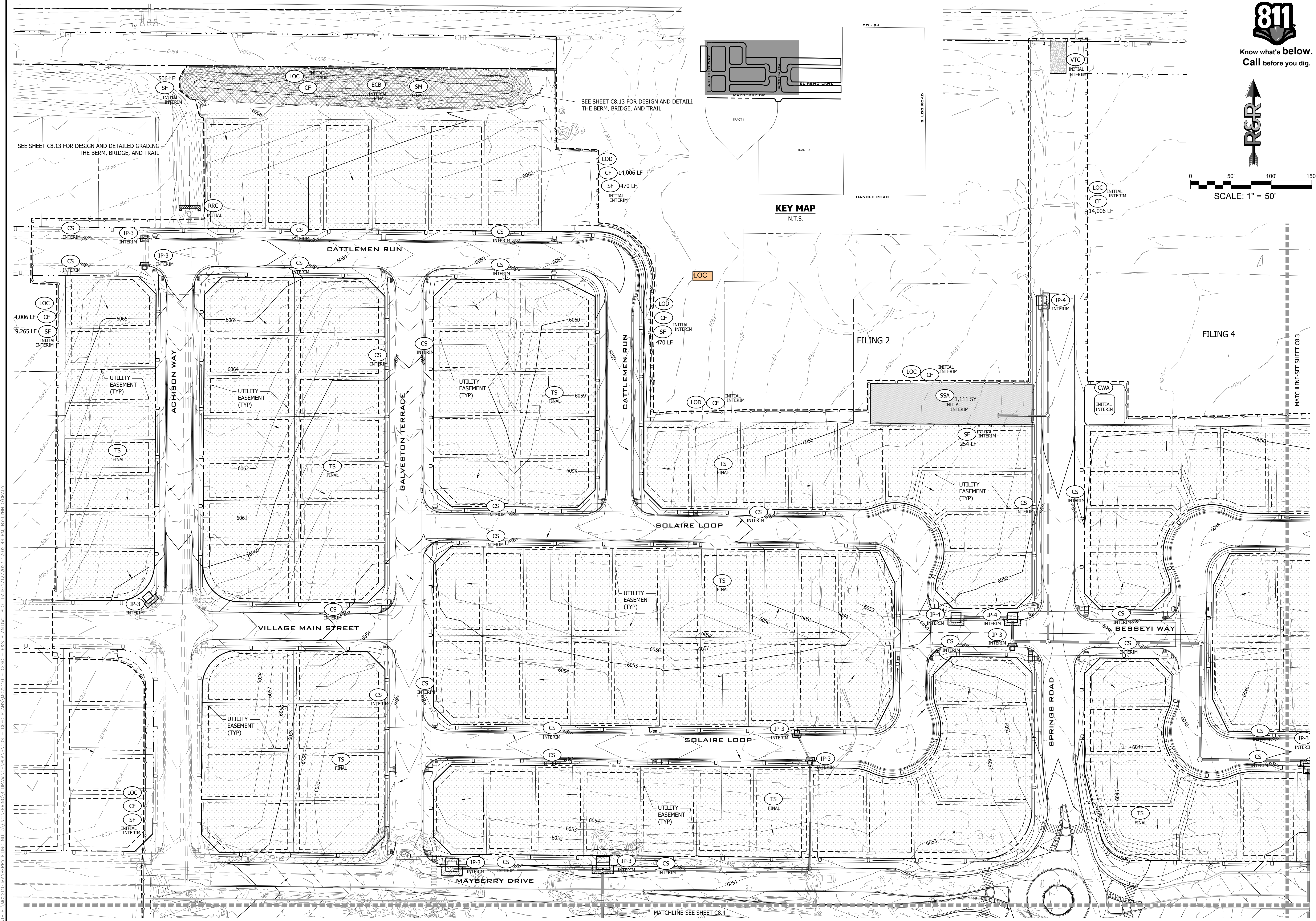
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MAYBERRY PUD PH 1 - FILING NO. 3
MAYBERRY, COLORADO SPRINGS
EL PASO COUNTY
MAYBERRY COMMUNITIES, LLC
3296 DIVINE HEIGHTS #208
COLORADO SPRINGS, CO 80922

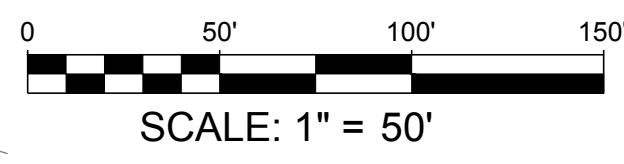
Table with columns: JOB NO., ORG. SUBM. DATE, DWN, NAME. Shows project details like MC22110, 06/16/2022, LAO, CJD.

GENERAL NOTES & LEGEND

NO. C8.1



KEY MAP
N.T.S.



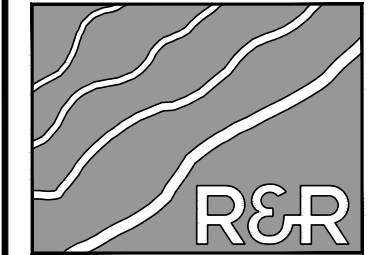
SCALE: 1" = 50'



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DATE	09/01/22
BY	
REVISION	
NO.	
2ND SUBMISSION	01/17/23
3RD SUBMISSION	



ENGINEERS-SURVEYORS
CON

R&R ENGINEERS-SURVEYORS, INC.
1635 WEST 13TH AVENUE, SUITE 310
DENVER, COLORADO 80204
PHONE: 303-753-6730

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MAYBERRY PUD PH1 - FILING NO. 3
SITE ADDRESS: MAYBERRY, COLORADO SPRINGS
EL PASO COUNTY
PREPARED FOR: MAYBERRY COMMUNITIES, LLC
3296 DIVINE HEIGHTS #208
COLORADO SPRINGS, CO 80922

JOB NO.	MC22110
ORG. SUBM. DATE	06/16/2022
DWN.	LAO
NAME	CHKD: CJJD

E&S PLAN-NORTH
WEST

NO.
C8.2

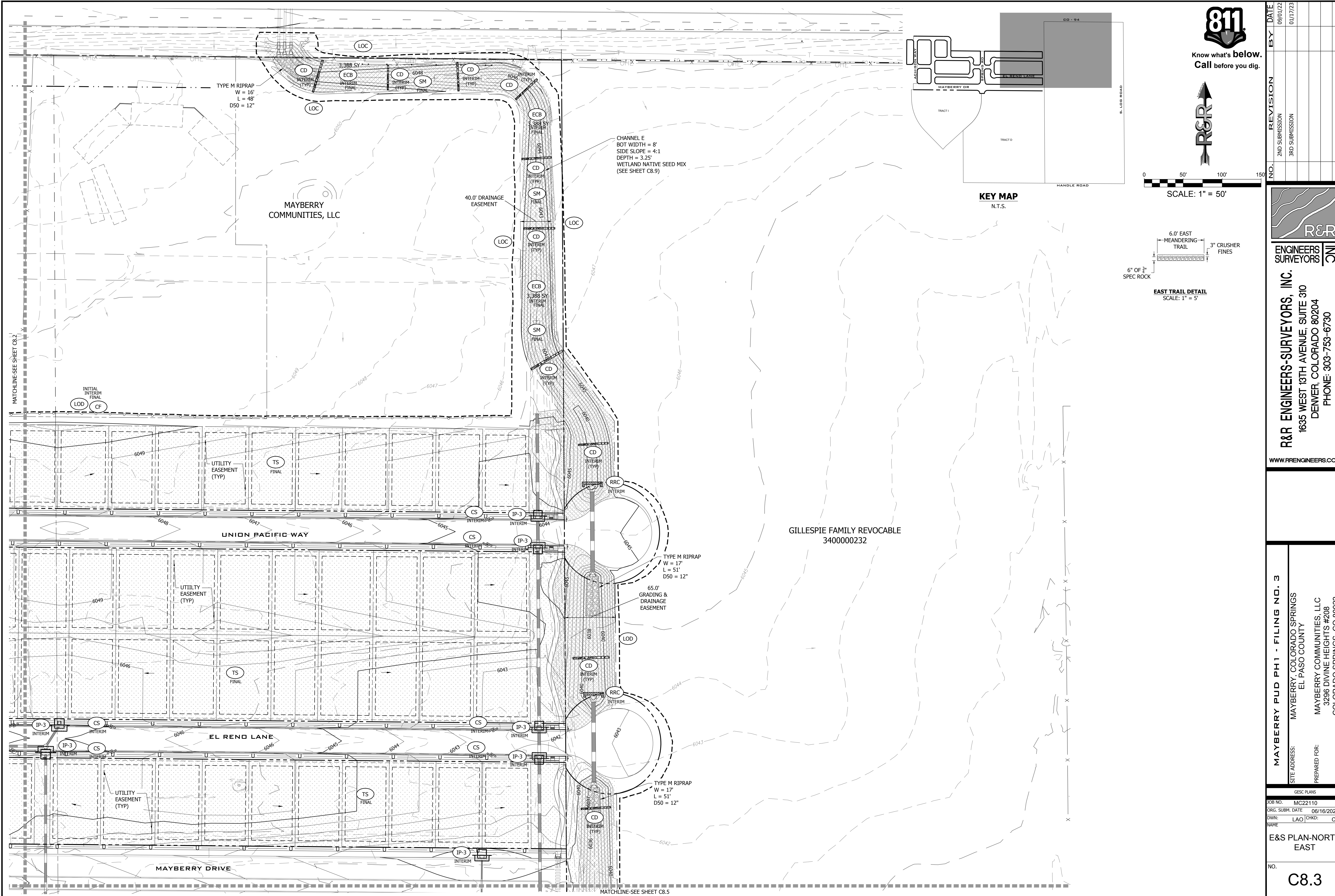
PLAN: P. W22210 MAYBERRY PUD PH1 - FILING NO. 3 - E&S PLAN-NORTH WEST - GESC - E&S PLANNING - PLOT DATE: 1/2/2023 12:02:44 PM - BY: NINA COBARRI

SEE SHEET C8.13 FOR DESIGN AND DETAIL THE BERM, BRIDGE, AND TRAIL

SEE SHEET C8.13 FOR DESIGN AND DETAILED GRADING THE BERM, BRIDGE, AND TRAIL

MATCHLINE-SEE SHEET C8.4

MATCHLINE-SEE SHEET C8.3

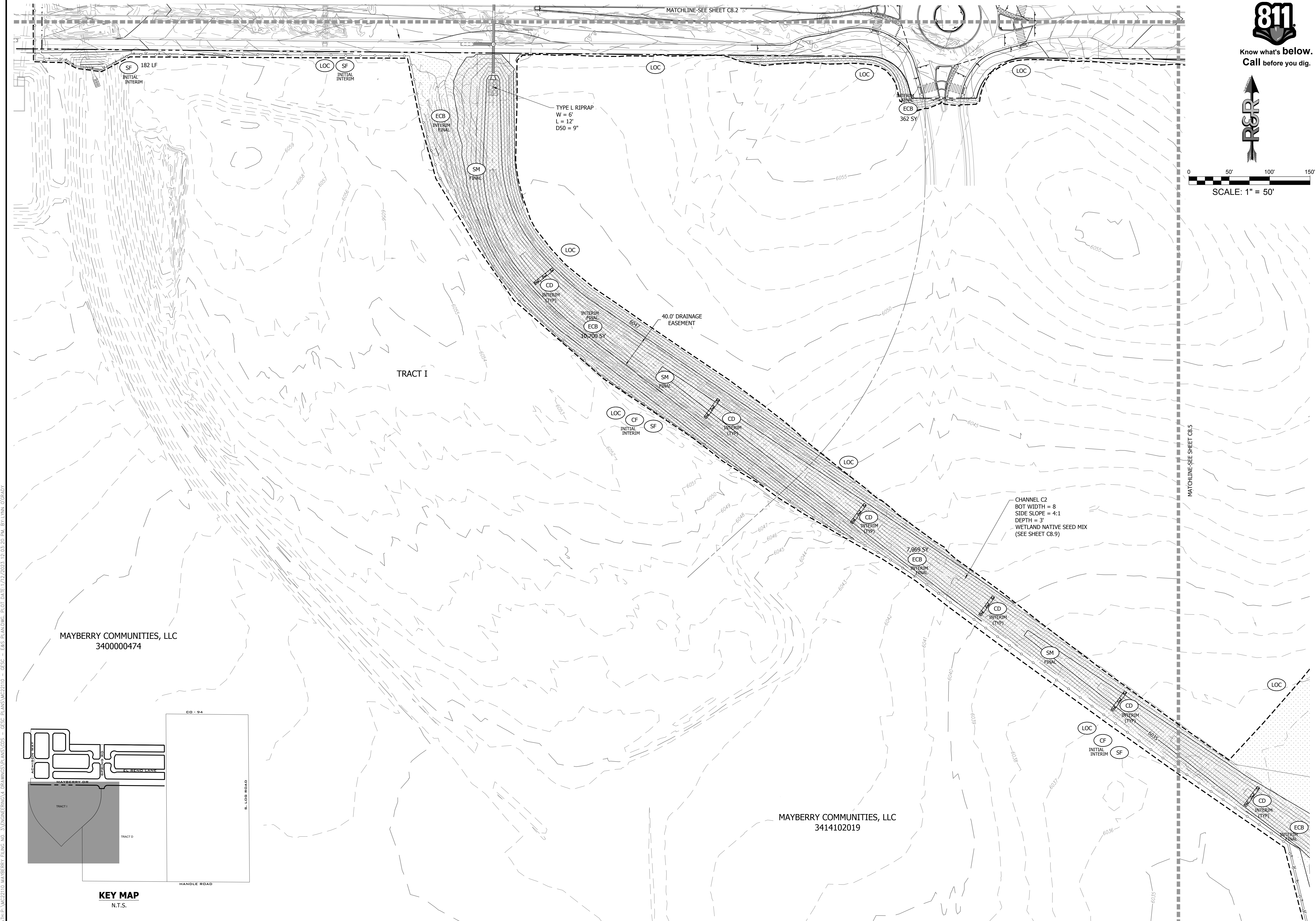


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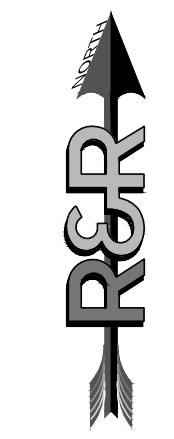
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MAYBERRY PUD PH1 - FILING NO. 3	
SITE ADDRESS:	MAYBERRY, COLORADO SPRINGS EL PASO COUNTY
PREPARED FOR:	MAYBERRY COMMUNITIES, LLC 3296 DIVINE HEIGHTS #208 COLORADO SPRINGS, CO 80922
JOB NO.	MC22110
ORG. SUBM. DATE	06/16/2022
DWN:	LAO
CHKD:	CJD
E&S PLAN-NORTH EAST	
NO.	C8.3

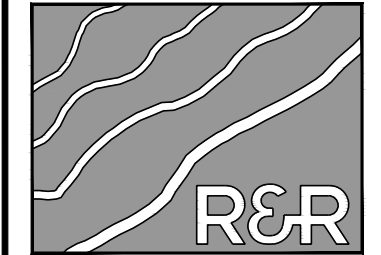


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SCALE: 1" = 50'

NO.	REVISION	DATE
2ND SUBMISSION		09/01/22
3RD SUBMISSION		01/17/23



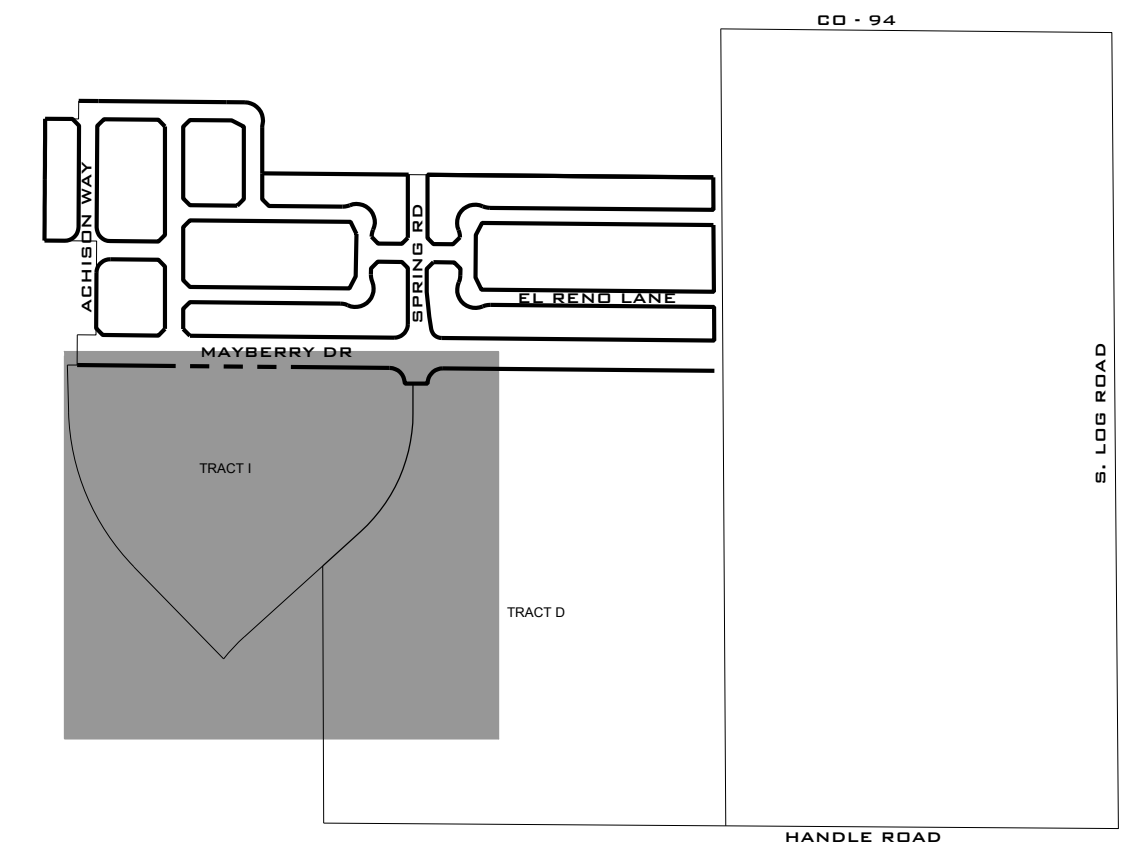
REGISTERED PROFESSIONAL ENGINEERS SURVEYORS

R&R ENGINEERS-SURVEYORS, INC.
1635 WEST 13TH AVENUE, SUITE 310
DENVER, COLORADO 80204
PHONE: 303-753-6730

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MAYBERRY COMMUNITIES, LLC
3400000474

MAYBERRY COMMUNITIES, LLC
3414102019



KEY MAP
N.T.S.

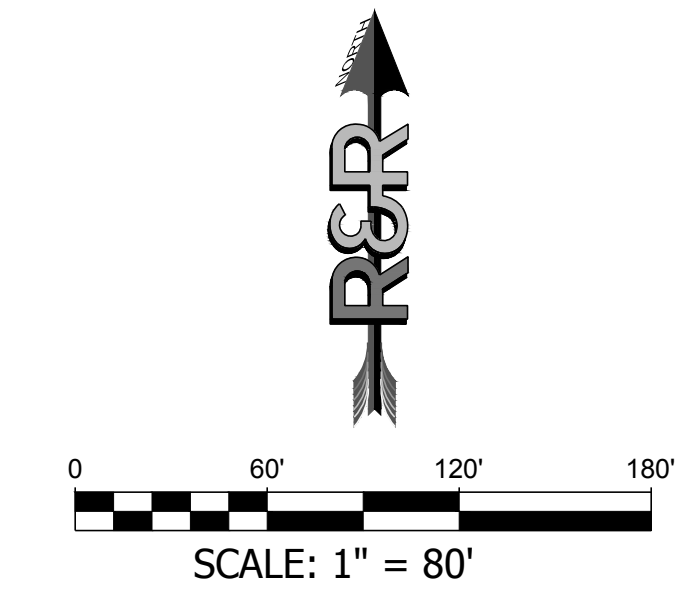
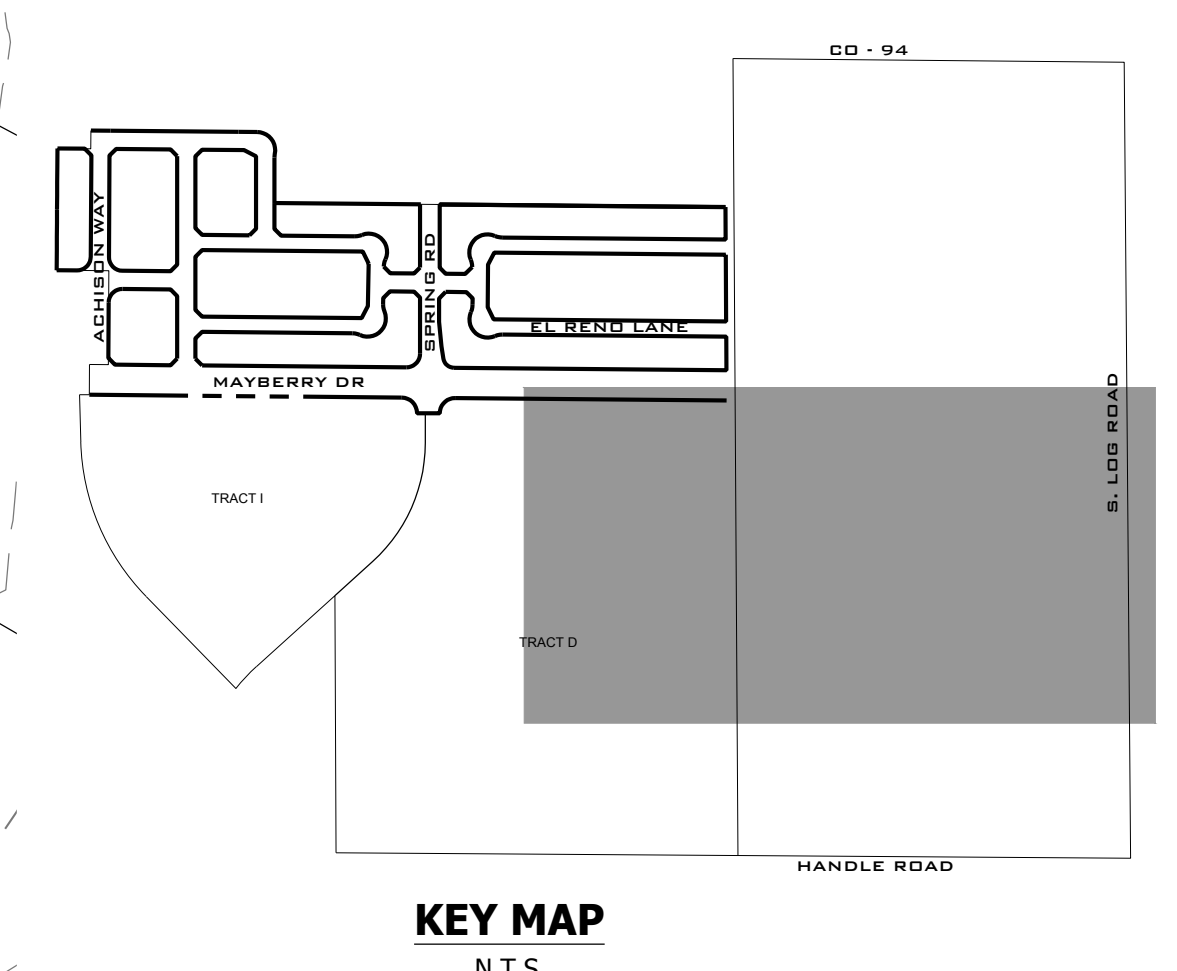
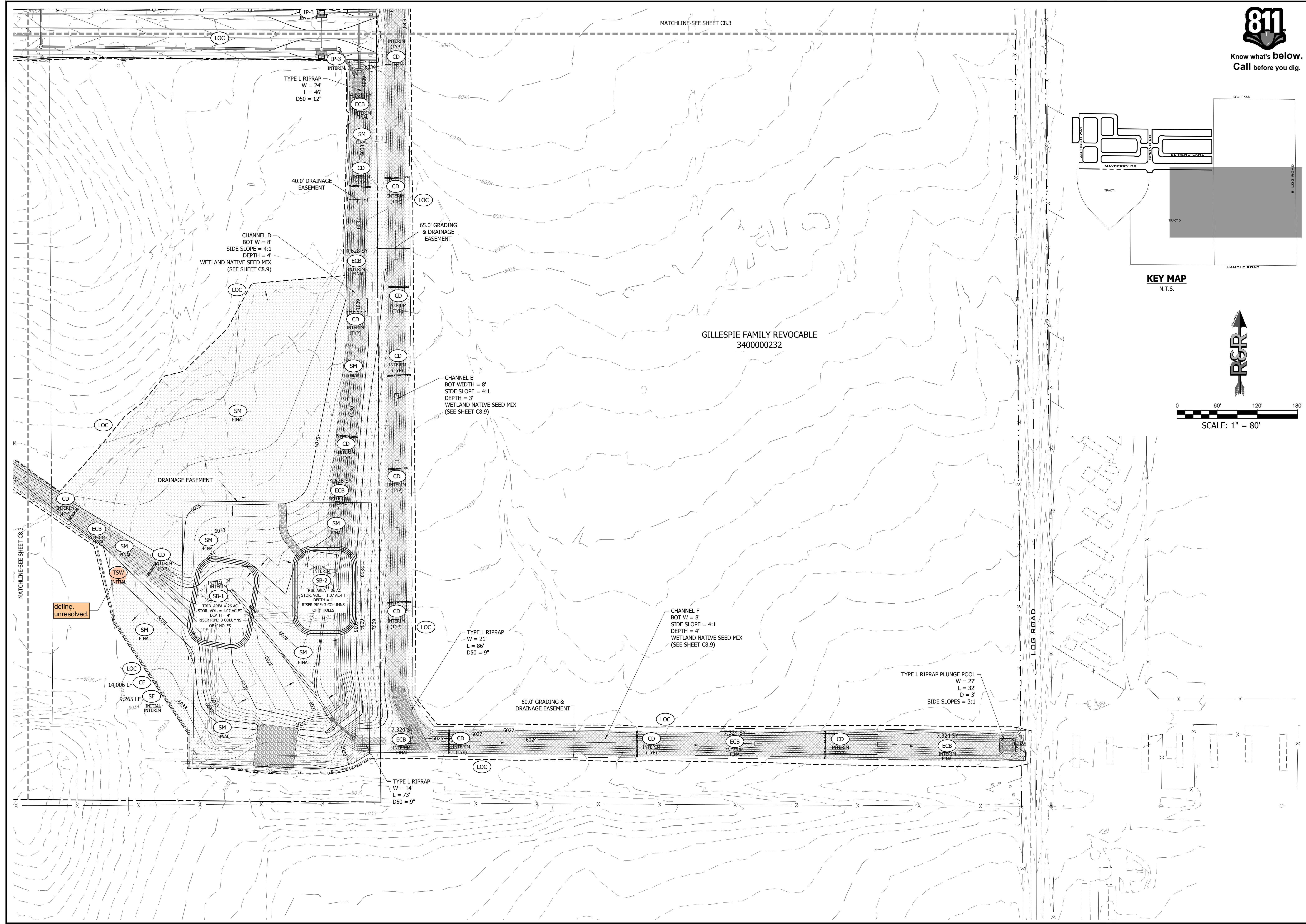
MAYBERRY PUD PH1 - FILING NO. 3
SITE ADDRESS: MAYBERRY, COLORADO SPRINGS
EL PASO COUNTY
PREPARED FOR: MAYBERRY COMMUNITIES, LLC
3296 DIVINE HEIGHTS #208
COLORADO SPRINGS, CO 80922

GESC PLANS	
JOB NO.	MC22110
ORG. SUBM. DATE	06/16/2022
DWN:	LAO
CHKD:	CJD

E&S PLAN-SOUTH WEST

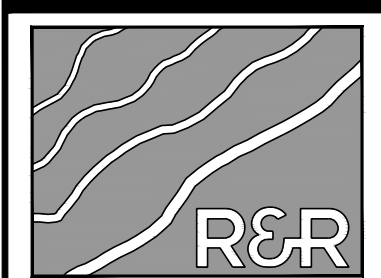
NO. C8.4

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811
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3RD SUBMISSION		01/17/23



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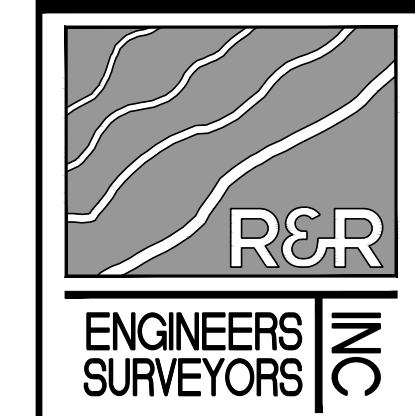
MAYBERRY PUD PH1 - FILING NO. 3
 SITE ADDRESS: MAYBERRY, COLORADO SPRINGS
 EL PASO COUNTY
 PREPARED FOR: MAYBERRY COMMUNITIES, LLC
 3296 DIVINE HEIGHTS #208
 COLORADO SPRINGS, CO 80922

JOB NO.	MC22110
ORG. SUBM. DATE	06/16/2022
DWN: LAO	CHKD: CJD

E&S PLAN-SOUTH EAST

NO. **C8.5**

DATE	09/01/22
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3RD SUBMISSION	



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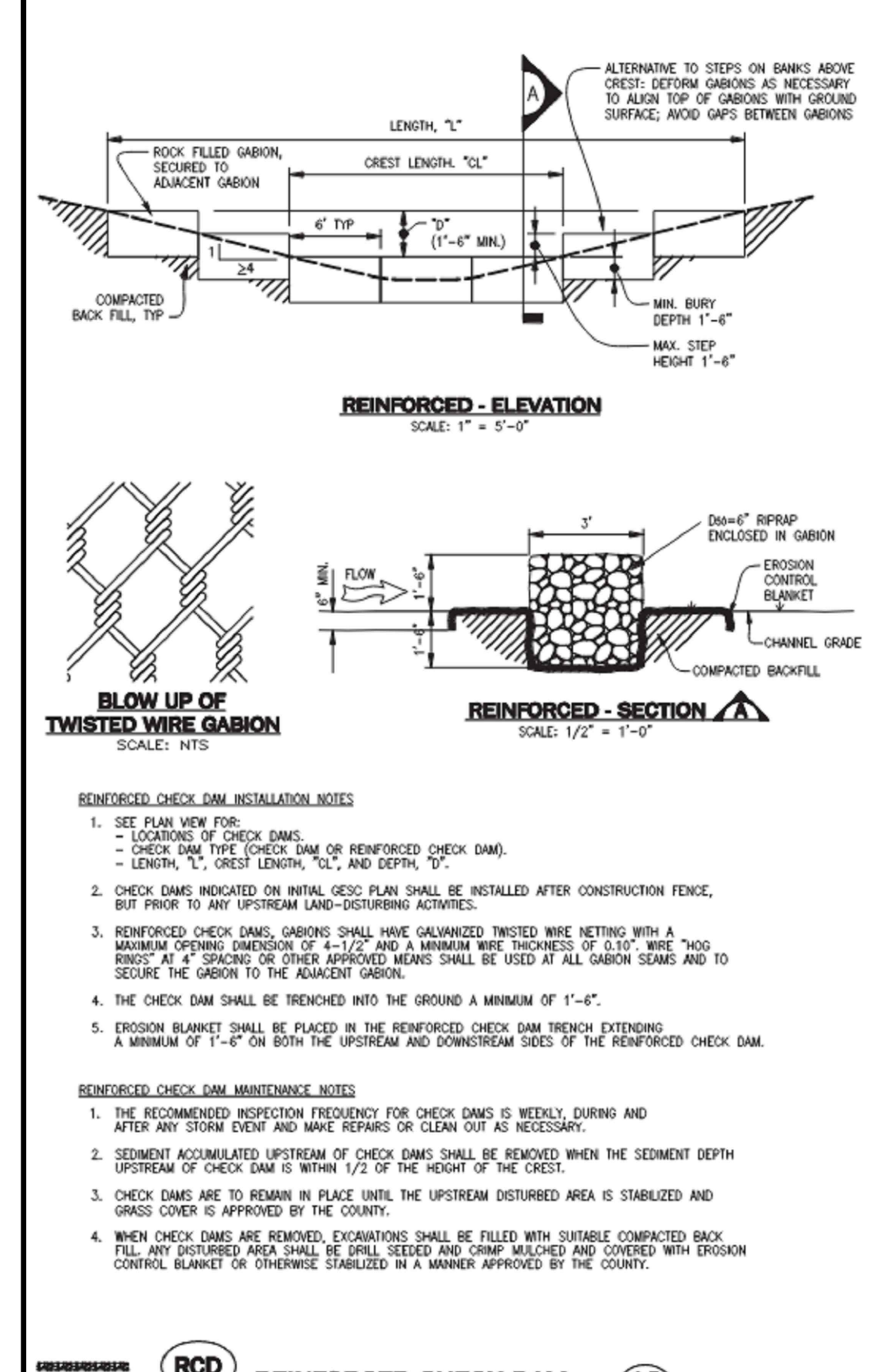
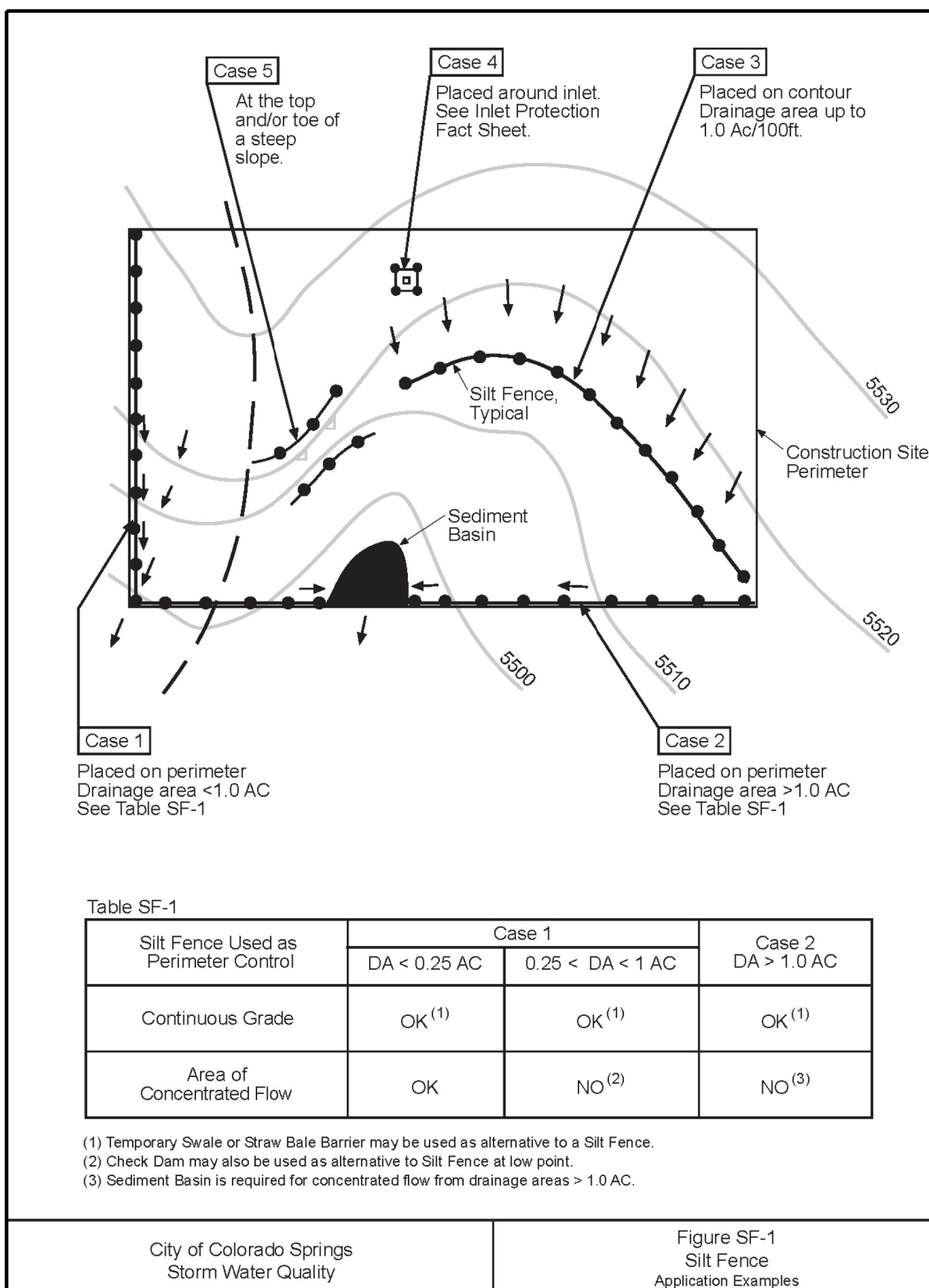
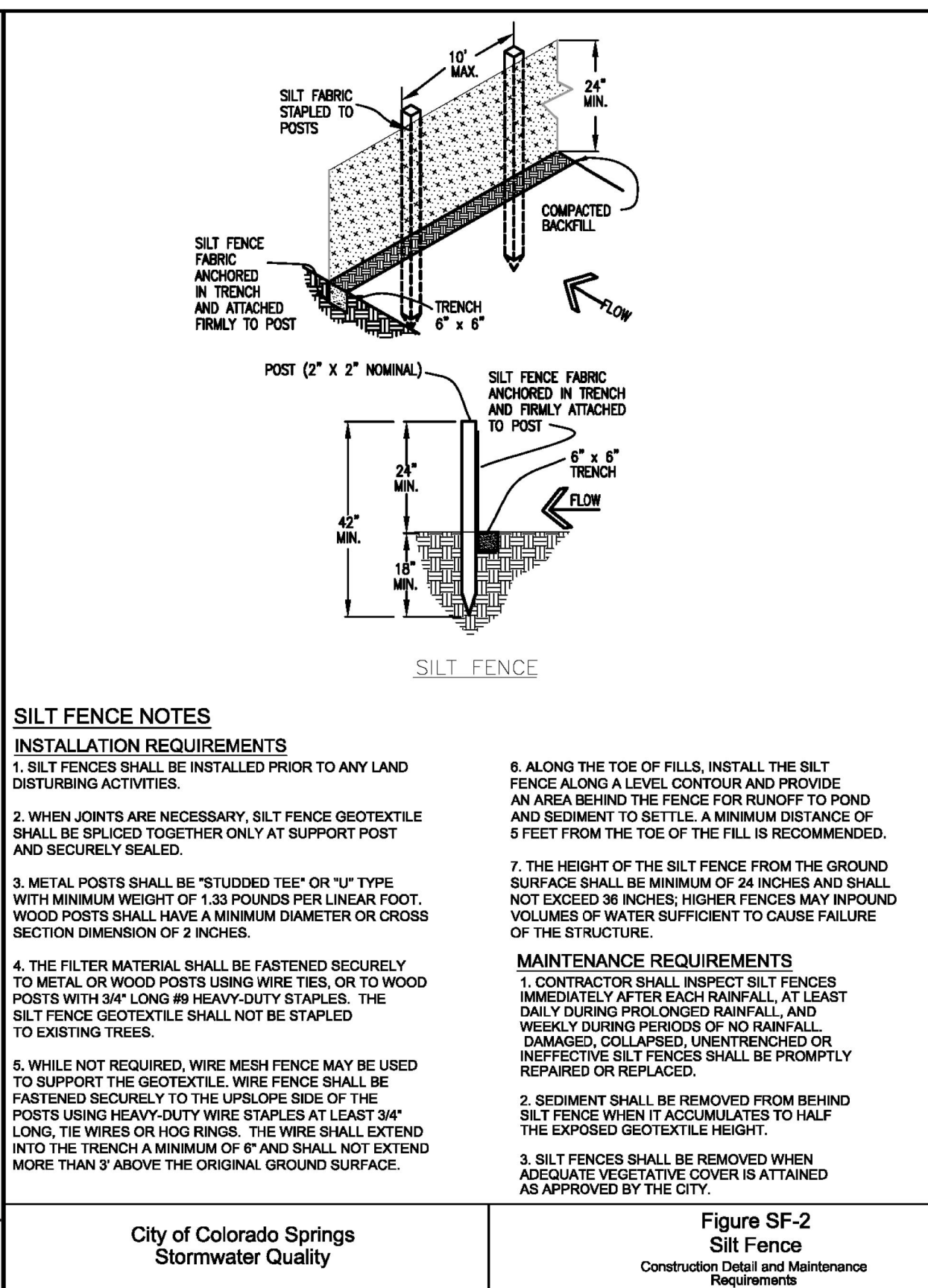
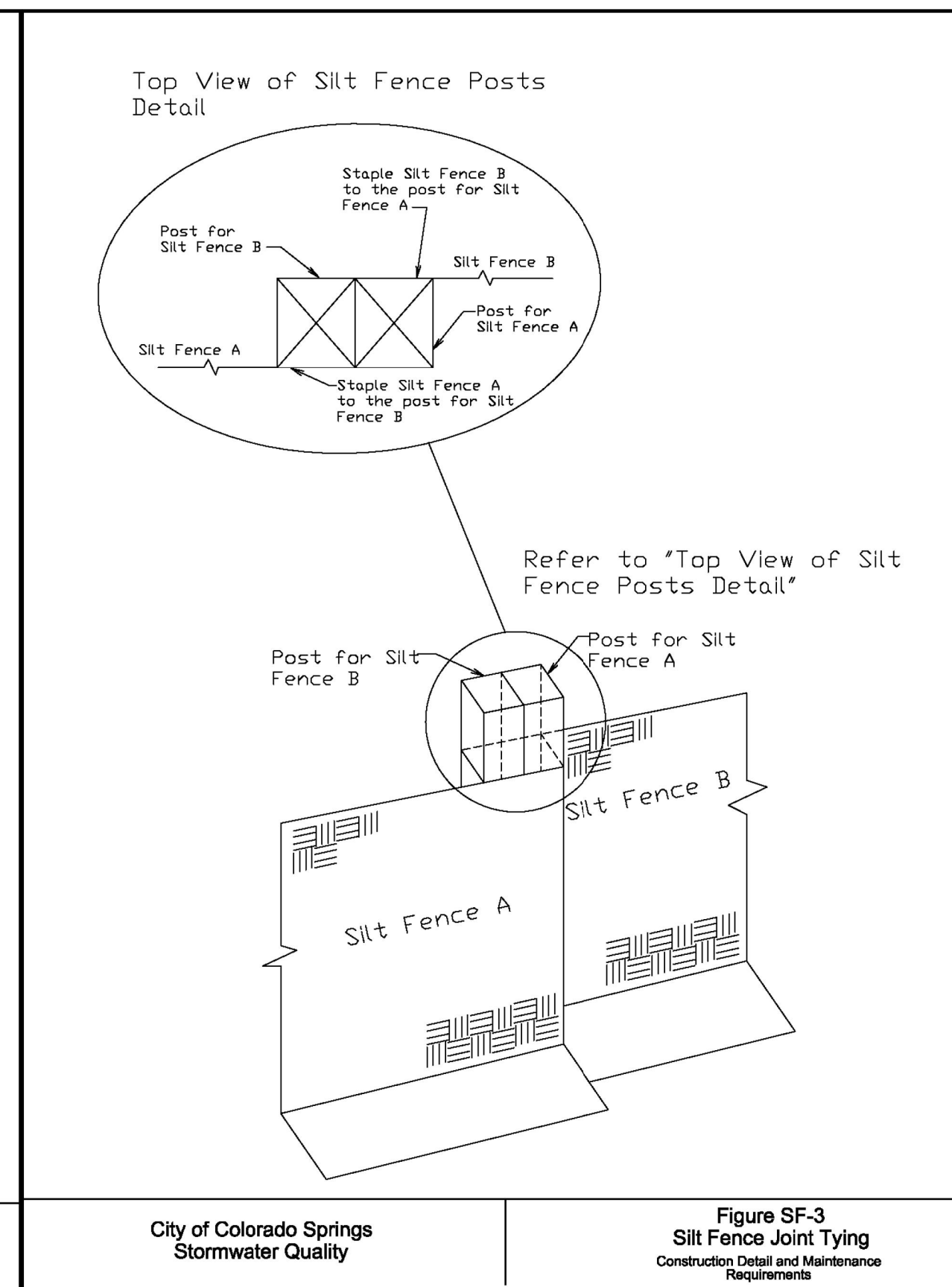
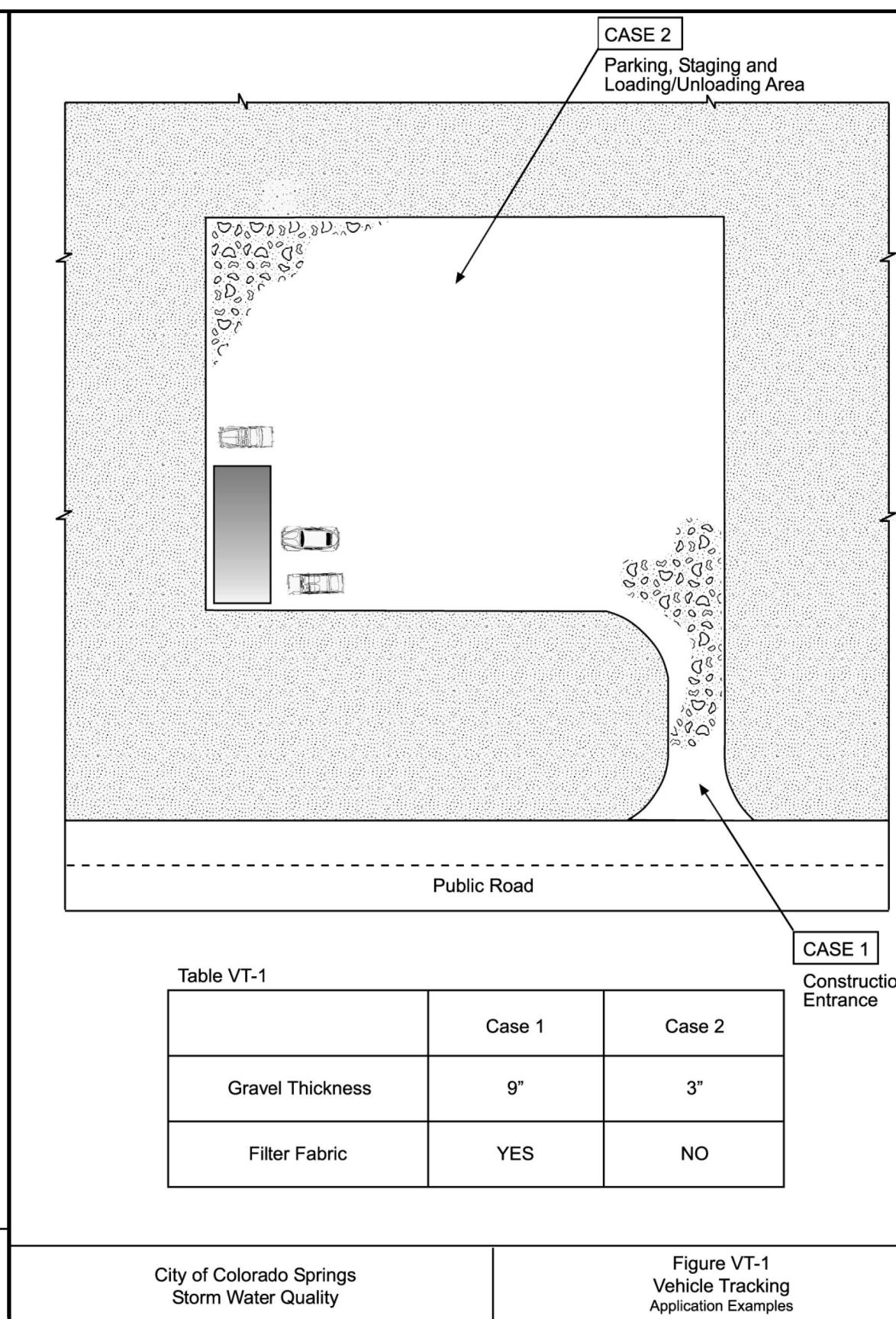
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MAYBERRY PUD PH 1 - FILING NO. 3
MAYBERRY, COLORADO SPRINGS
EL PASO COUNTY
MAYBERRY COMMUNITIES, LLC
3296 DIVINE HEIGHTS #208
COLORADO SPRINGS, CO 80922

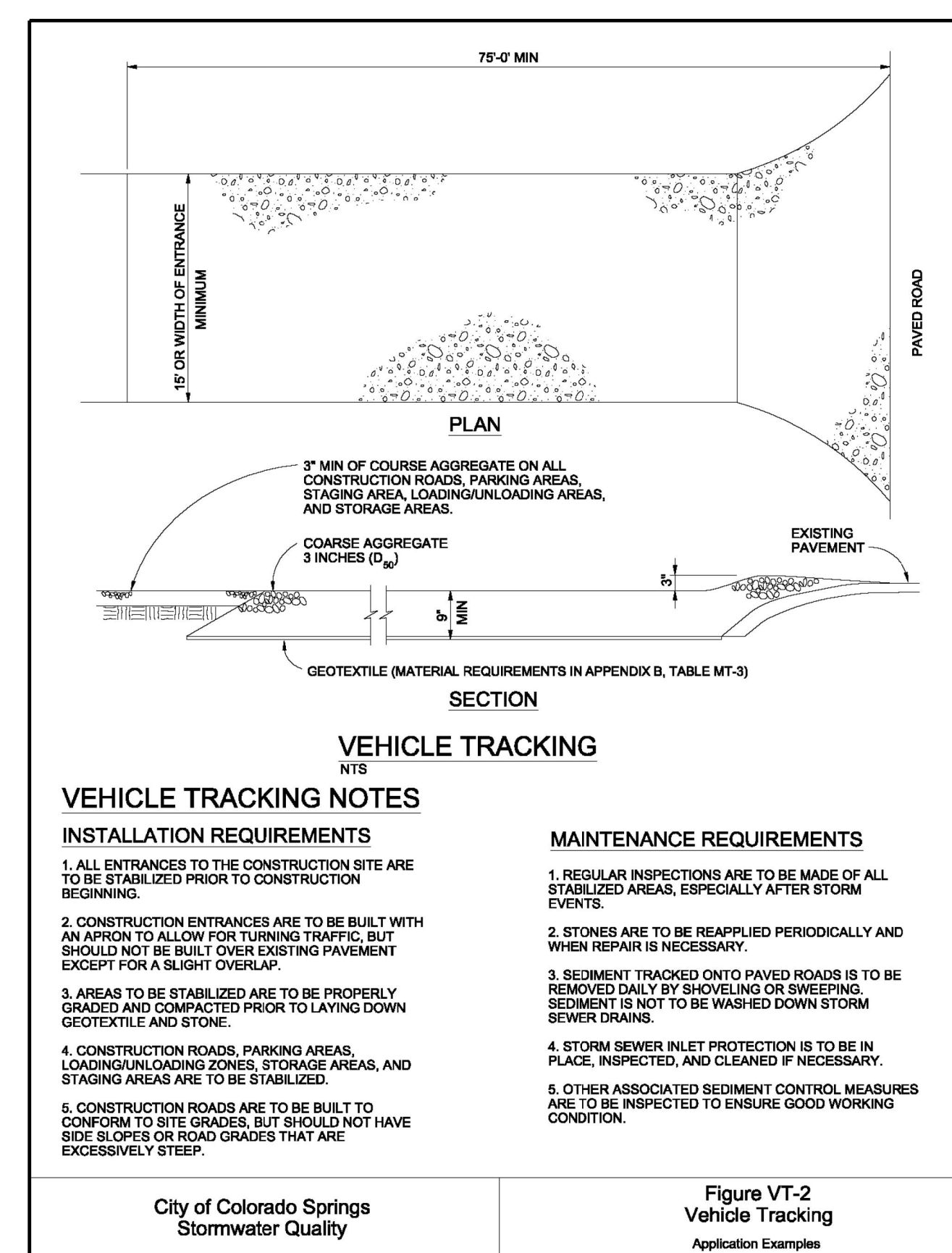
JOB NO.	MC22110
ORG. SUBM. DATE	06/16/2022
DWN:	LAO
NAME	CHD: CJD

E&S DETAILS

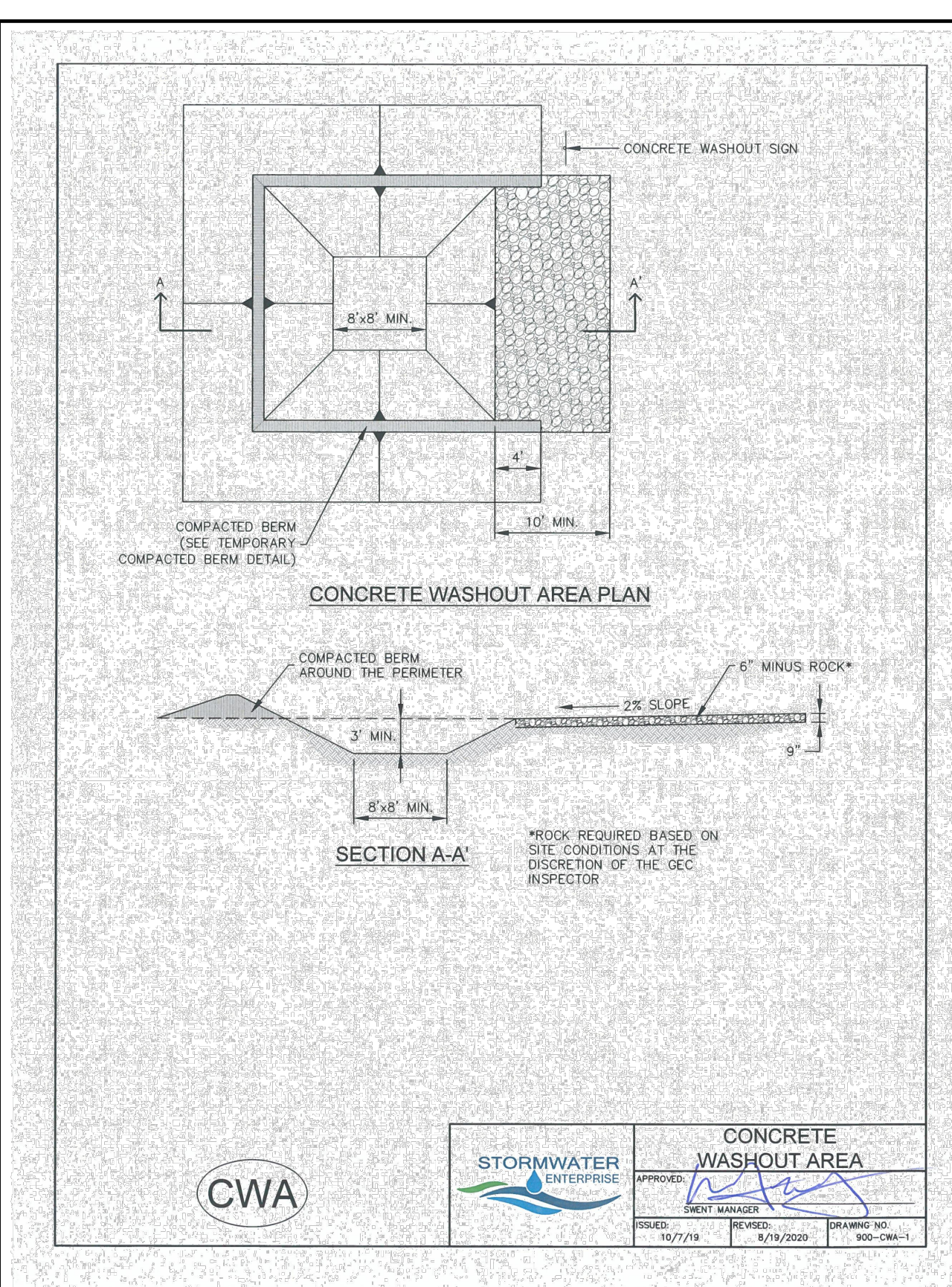
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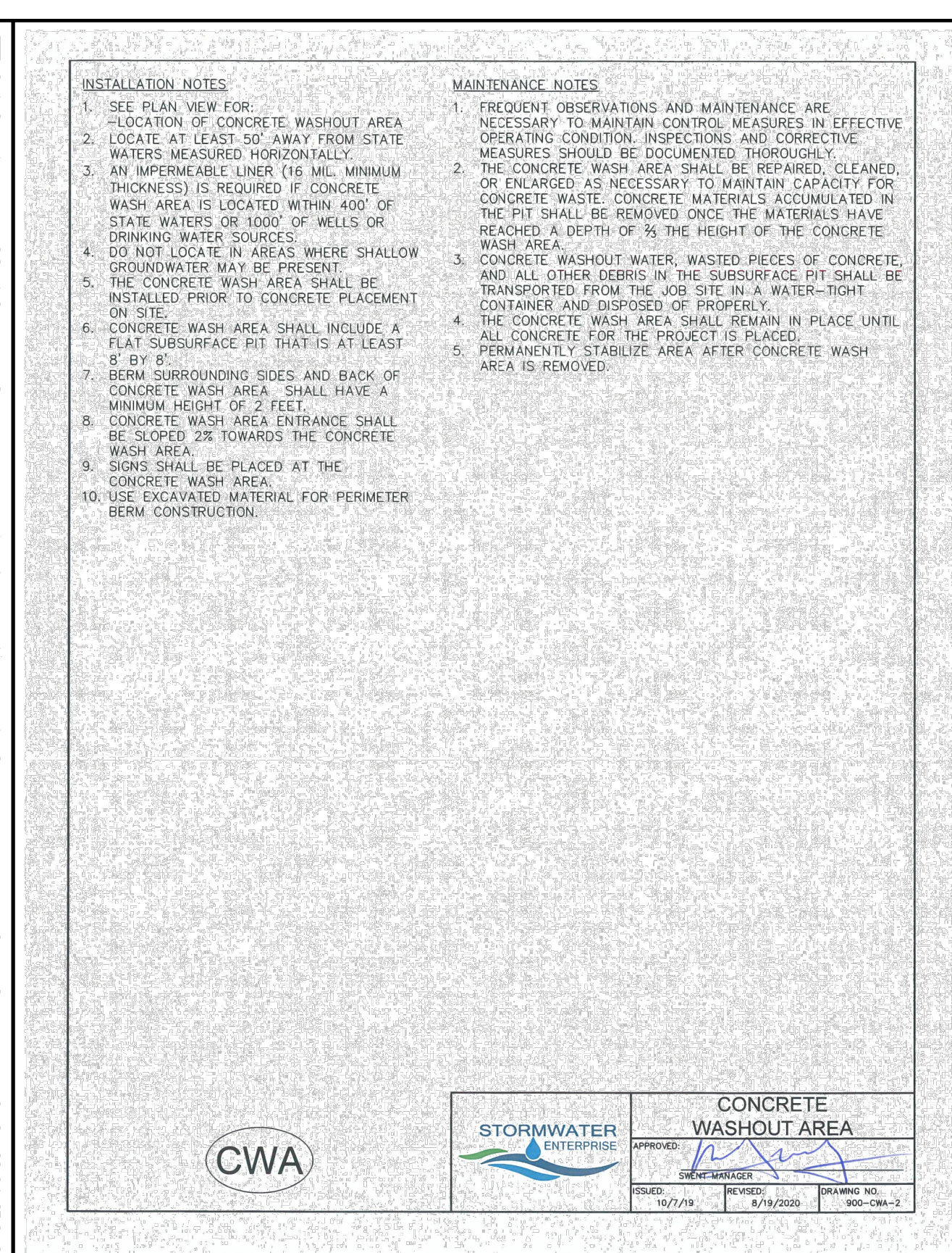
City of Colorado Springs
Storm Water Quality



City of Colorado Springs
Stormwater Quality



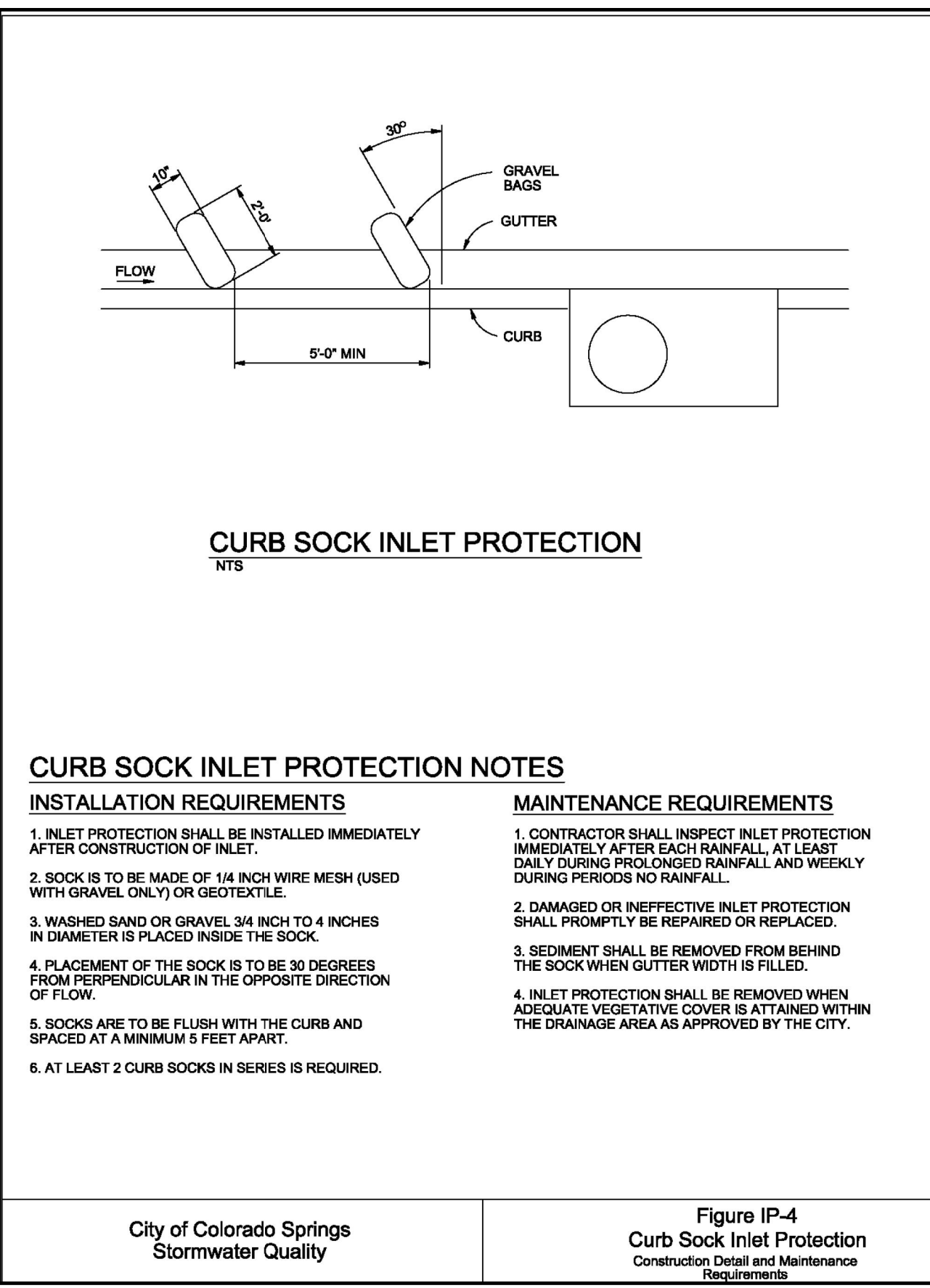
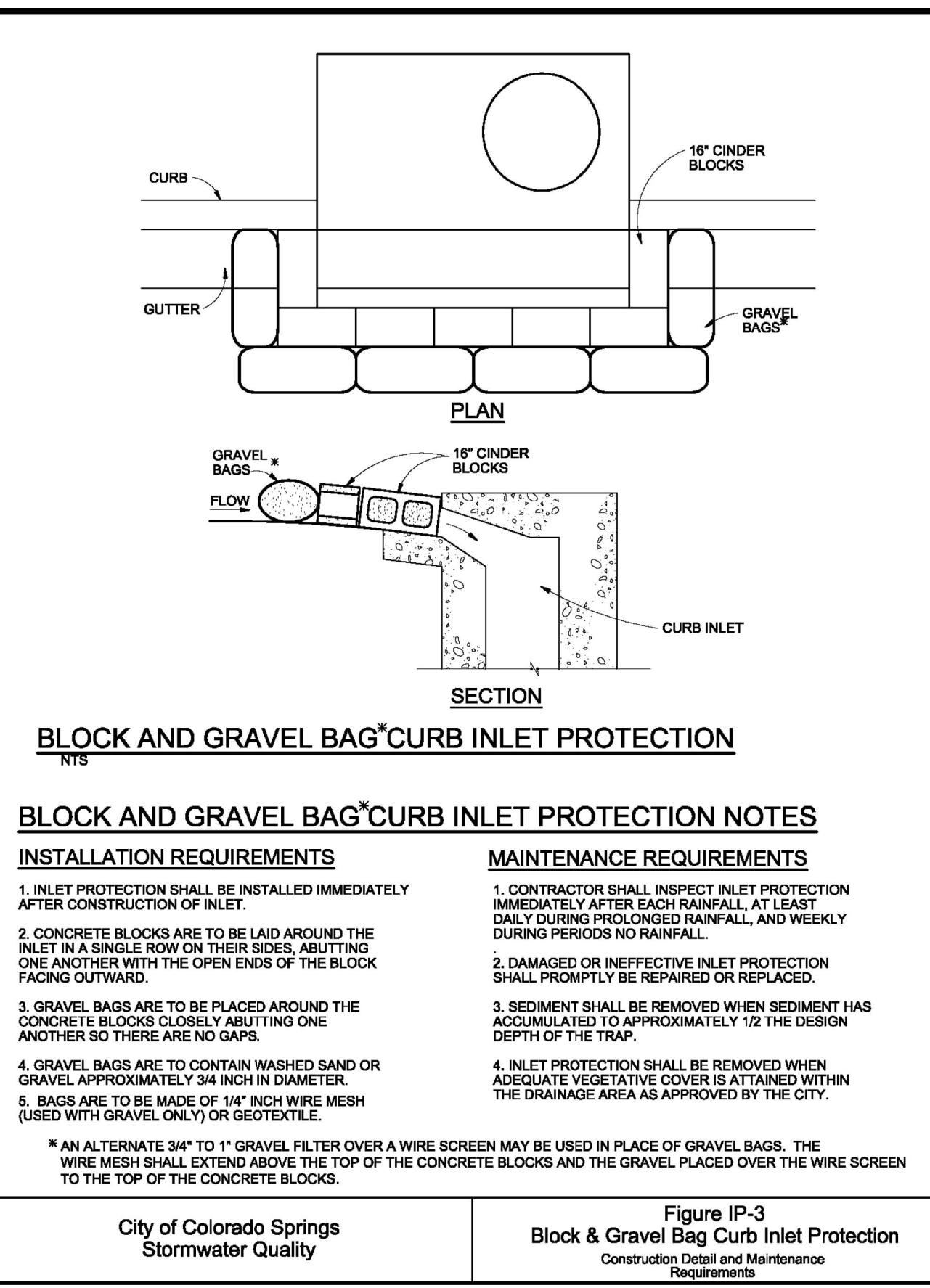
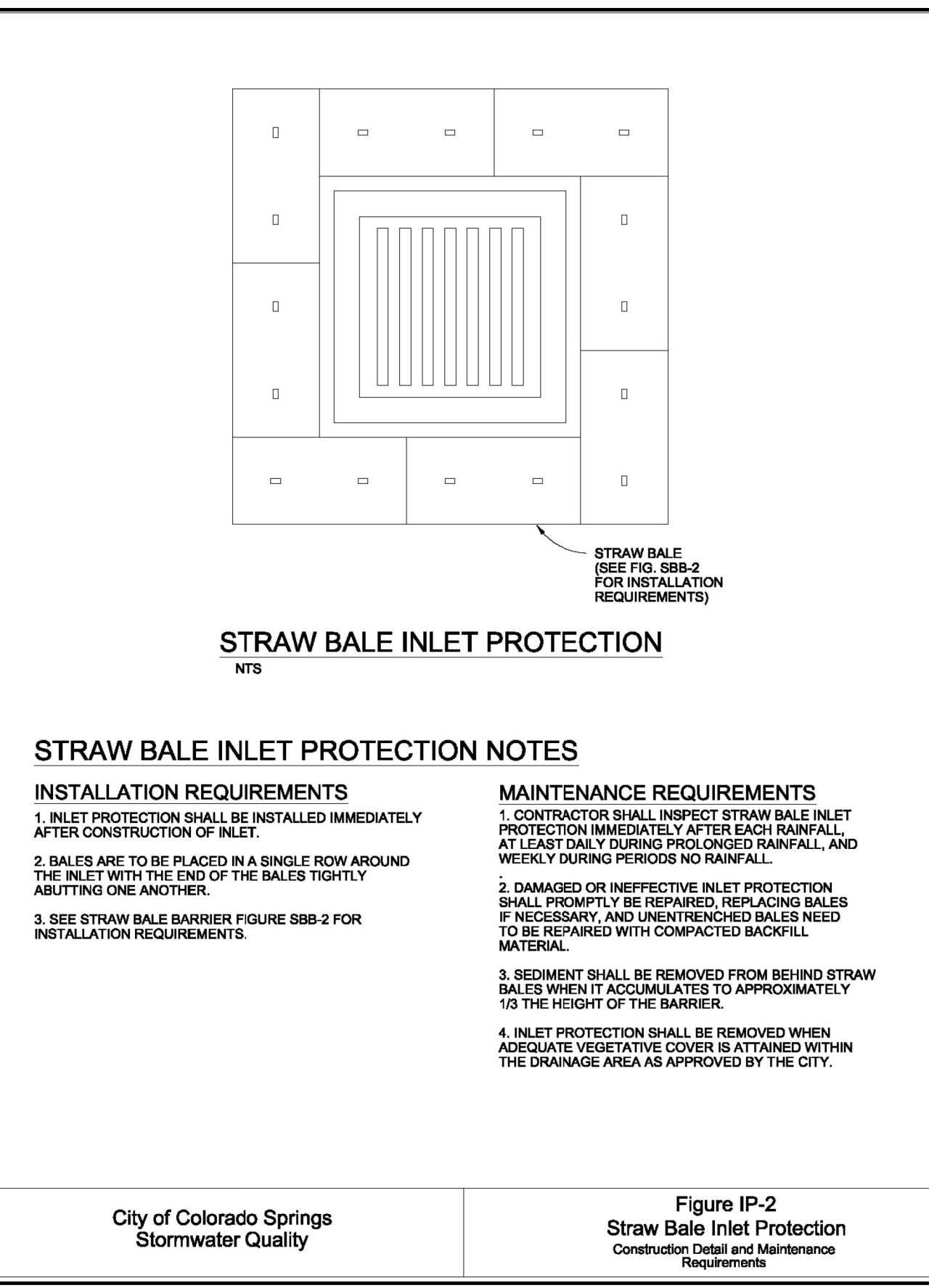
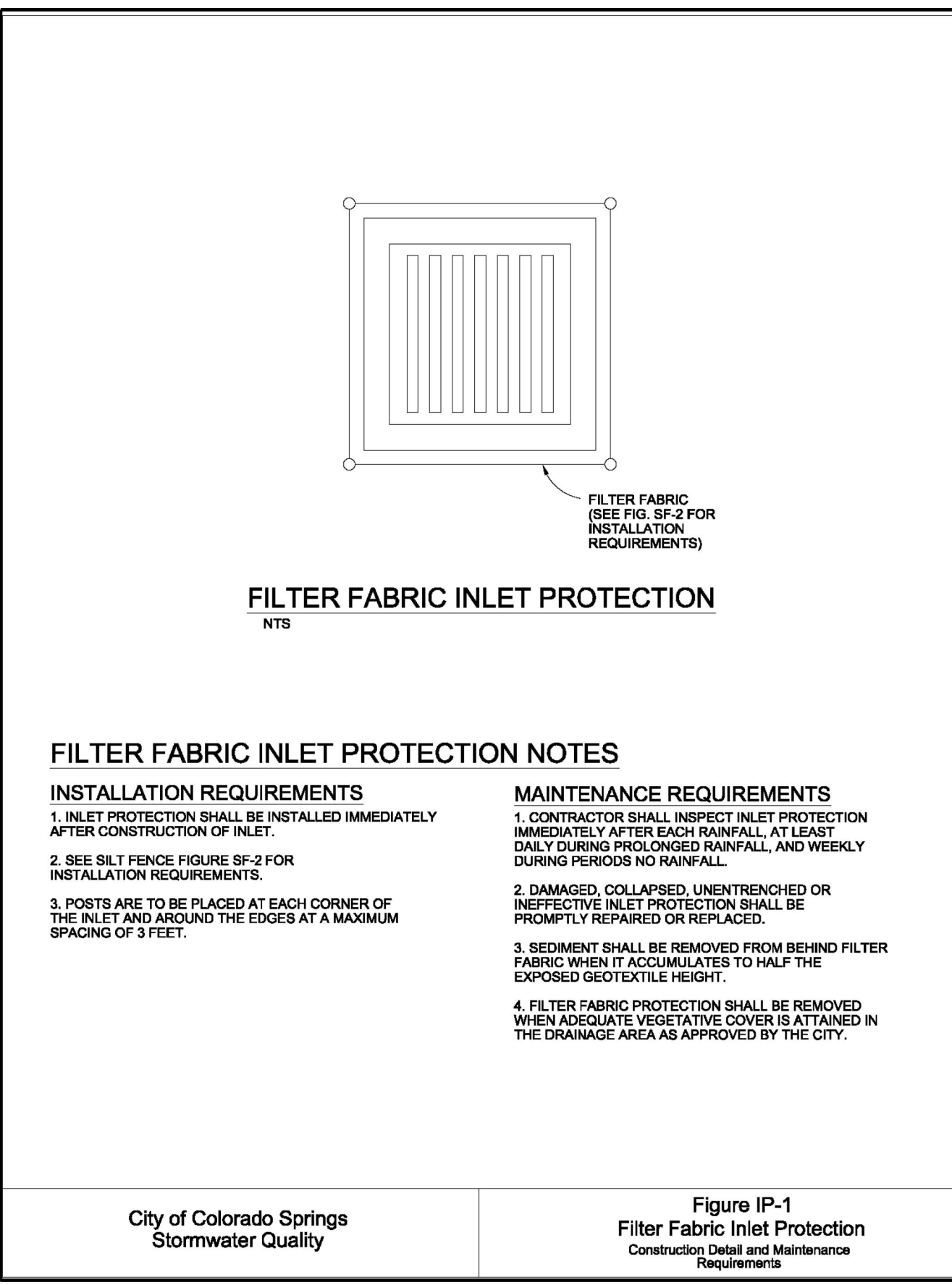
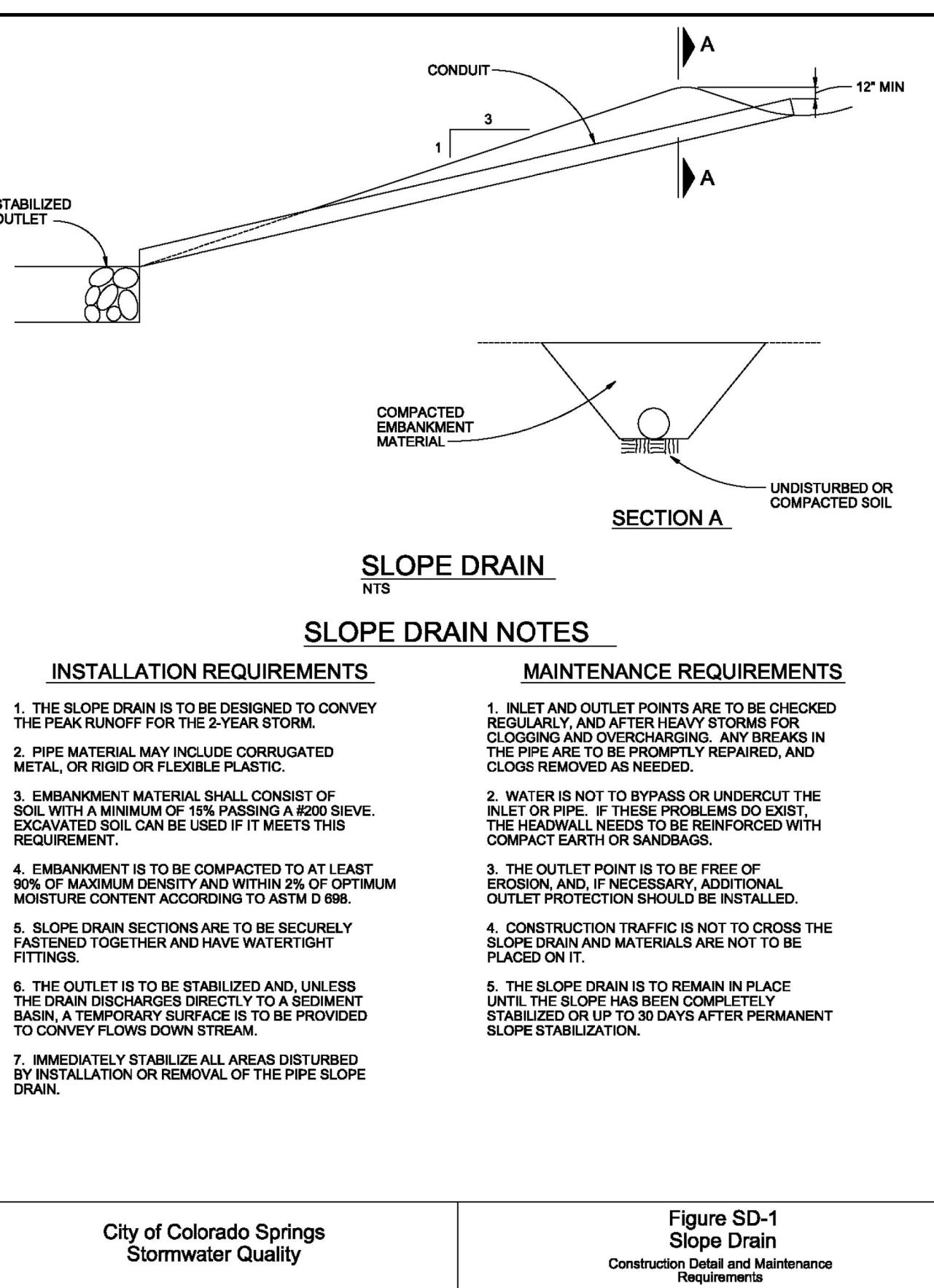
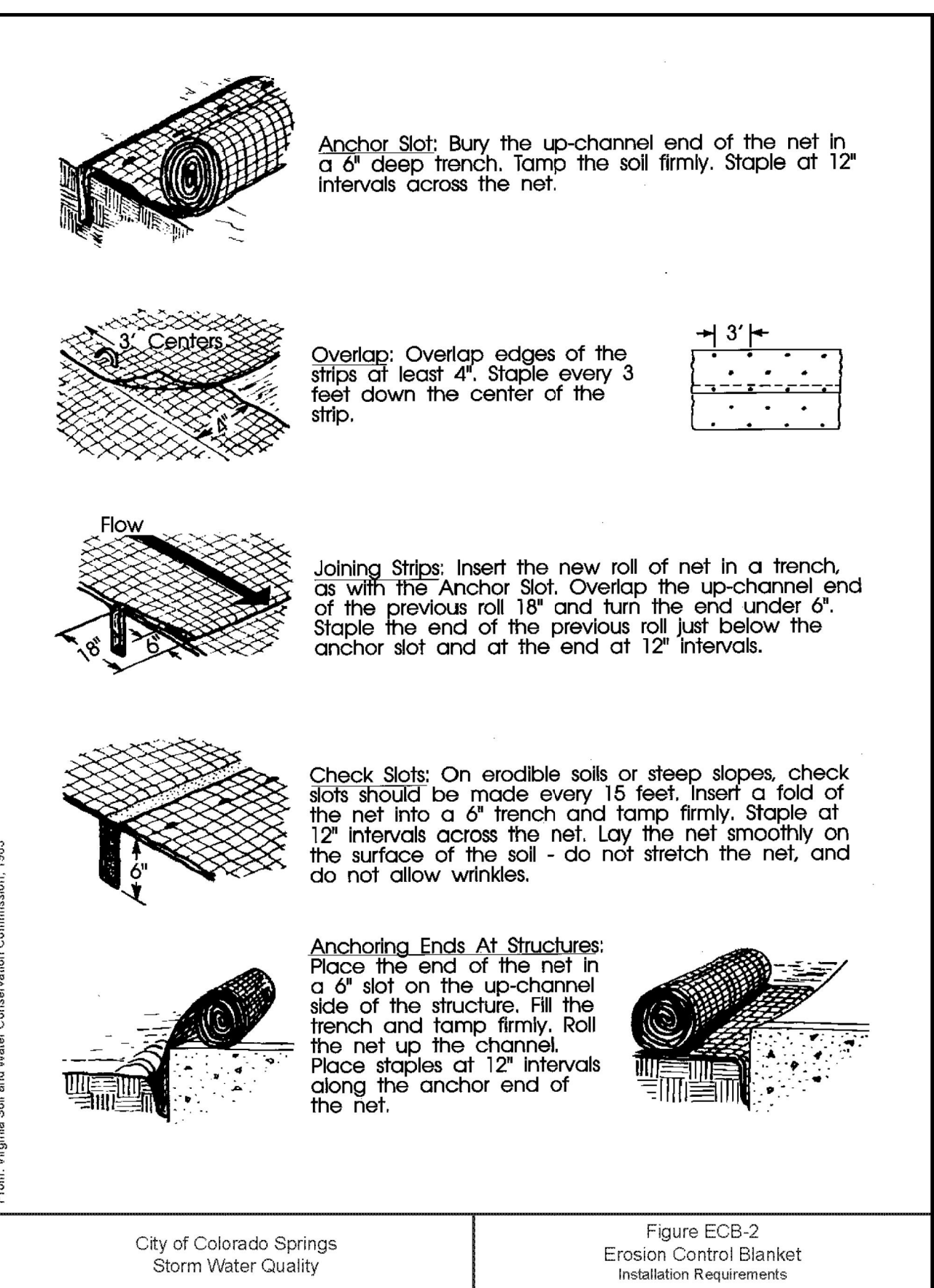
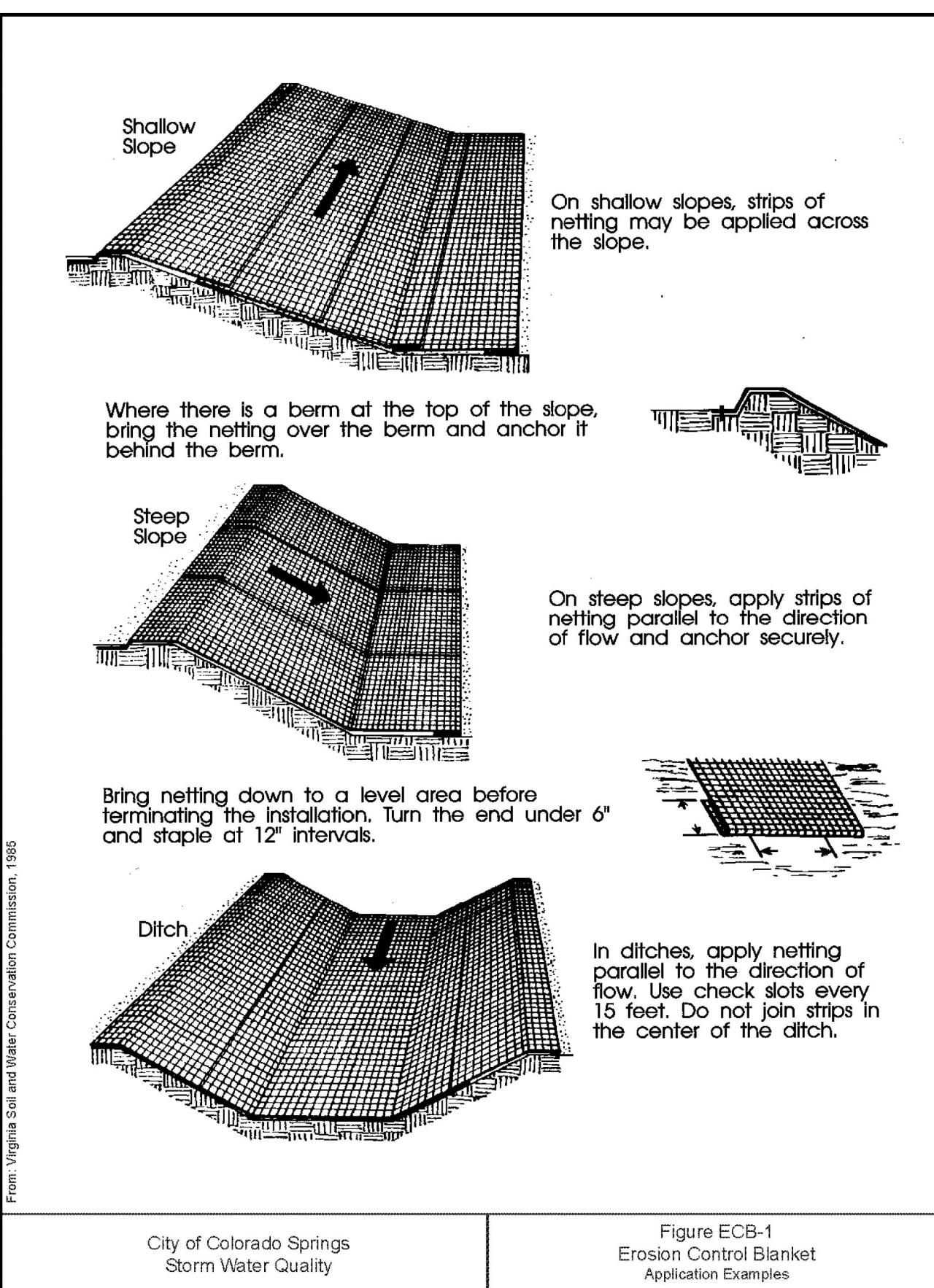
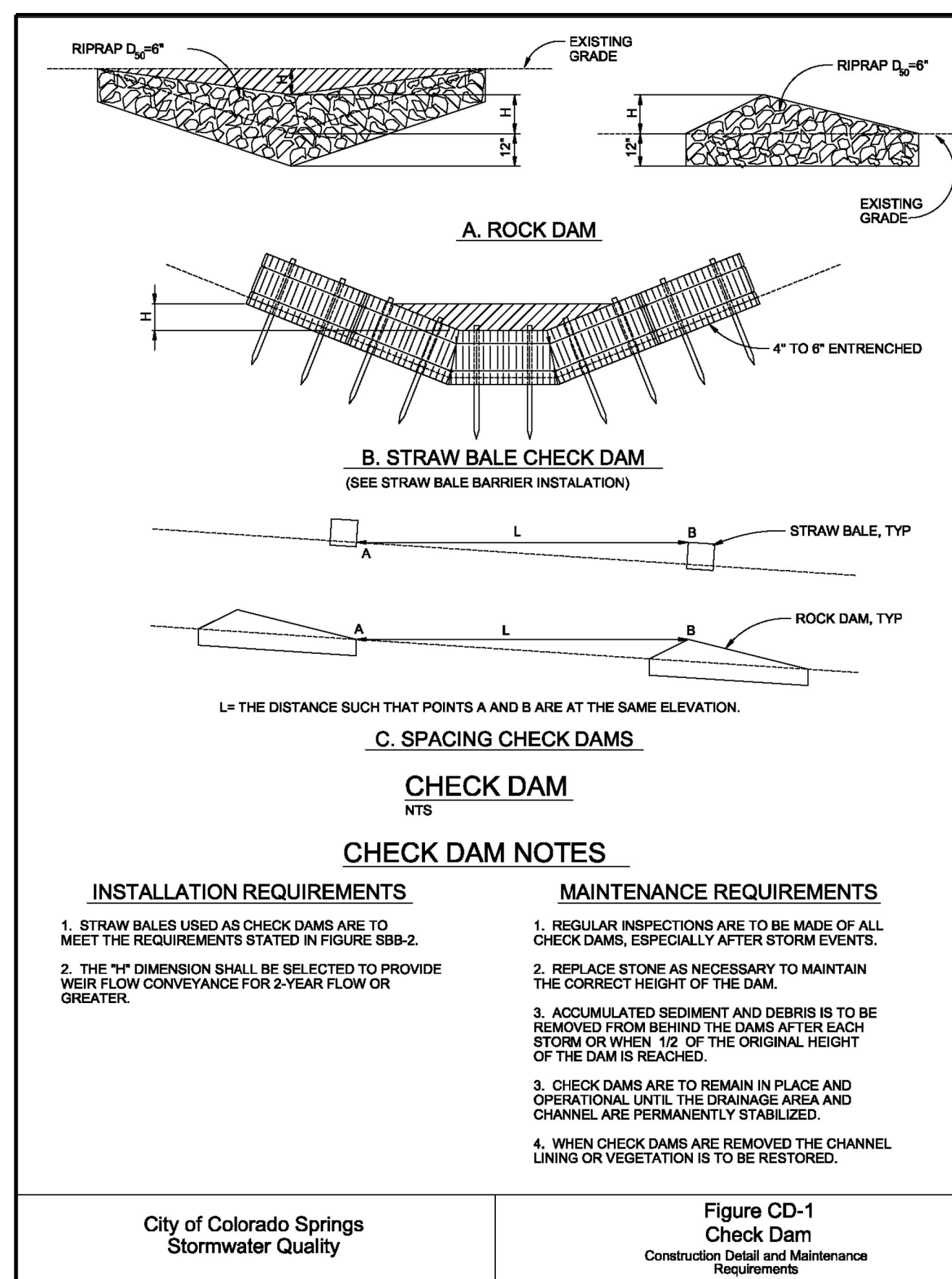
City of Colorado Springs
Stormwater Quality



City of Colorado Springs
Stormwater Quality

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3RD SUBMISSION	



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MAYBERRY PUD PH 1 - FILING NO. 3
MAYBERRY, COLORADO SPRINGS
EL PASO COUNTY

PREPARED FOR:
MAYBERRY COMMUNITIES, LLC
3296 DIVINE HEIGHTS #208
COLORADO SPRINGS, CO 80922

GESC PLANS

JOB NO. MC22110
ORG. SUBM. DATE 06/16/2022
DWN: LAO CHD: CJD

PLAN: IP-1, IP-2, IP-3, IP-4, IP-5, IP-6, IP-7, IP-8, IP-9, IP-10, IP-11, IP-12, IP-13, IP-14, IP-15, IP-16, IP-17, IP-18, IP-19, IP-20, IP-21, IP-22, IP-23, IP-24, IP-25, IP-26, IP-27, IP-28, IP-29, IP-30, IP-31, IP-32, IP-33, IP-34, IP-35, IP-36, IP-37, IP-38, IP-39, IP-40, IP-41, IP-42, IP-43, IP-44, IP-45, IP-46, IP-47, IP-48, IP-49, IP-50, IP-51, IP-52, IP-53, IP-54, IP-55, IP-56, IP-57, IP-58, IP-59, IP-60, IP-61, IP-62, IP-63, IP-64, IP-65, IP-66, IP-67, IP-68, IP-69, IP-70, IP-71, IP-72, IP-73, IP-74, IP-75, IP-76, IP-77, IP-78, IP-79, IP-80, IP-81, IP-82, IP-83, IP-84, IP-85, IP-86, IP-87, IP-88, IP-89, IP-90, IP-91, IP-92, IP-93, IP-94, IP-95, IP-96, IP-97, IP-98, IP-99, IP-100, IP-101, IP-102, IP-103, IP-104, IP-105, IP-106, IP-107, IP-108, IP-109, IP-110, IP-111, IP-112, IP-113, IP-114, IP-115, IP-116, IP-117, IP-118, IP-119, IP-120, IP-121, IP-122, IP-123, IP-124, IP-125, IP-126, IP-127, IP-128, IP-129, IP-130, IP-131, IP-132, IP-133, IP-134, IP-135, IP-136, IP-137, 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DATE	REVISION
09/01/22	
01/17/23	
	2ND SUBMISSION
	3RD SUBMISSION

Table SBB-1

Straw Bale Barrier Used as Perimeter Control	Case 1 DA < 1.0 AC	Case 2 DA > 1.0 AC
Continuous Grade	OK ⁽¹⁾	OK ⁽¹⁾
Area of Concentrated Flow	OK ⁽²⁾	NO ⁽³⁾

(1) Temporary Swale or Silt Fence may be used as alternative to a Straw Bale Barrier.
(2) Straw Bale Check Dam may be used at low points.
(3) Sediment Basin is required for concentrated flow from drainage areas > 1.0 AC.

City of Colorado Springs Storm Water Quality

STRAW BALE BARRIER NOTES

INSTALLATION REQUIREMENTS

- STRAW BALE BARRIERS SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.
- BALES SHALL CONSIST OF APPROXIMATELY 5 CUBIC FEET OF CERTIFIED WHEAT FREE HAY OR STRAW AND WEIGH NOT LESS THAN 35 POUNDS.
- BALES ARE TO BE PLACED IN A SINGLE ROW WITH THE END OF THE BALES TIGHTLY ADJUTING ONE ANOTHER.
- EACH BALE IS TO BE SECURELY ANCHORED WITH AT LEAST TWO STAKES AND THE FIRST STAKE IS TO BE DRIVEN TOWARD THE PREVIOUSLY LAID BALE TO FORCE THE BALES TOGETHER.
- STAKES ARE TO BE A MINIMUM OF 42 INCHES LONG. METAL STAKES SHALL BE STANDARD "T" OR "U" TYPE WITH MINIMUM WEIGHT OF 1.33 POUNDS PER LINEAR FOOT. WOOD STAKES SHALL HAVE A MINIMUM DIAMETER OR CROSS SECTION DIMENSION OF 2 INCHES.
- BALES ARE TO BE BOUND WITH EITHER WIRE OR STRING AND ORIENTED SUCH THAT THE BINDINGS ARE AROUND THE SIDES AND NOT ALONG THE TOPS AND BOTTOMS OF THE BALE.
- GAPS BETWEEN BALES ARE TO BE CHINKED (FILLED BY WEDGING) WITH STRAW OR THE SAME MATERIAL OF THE BALE.
- END BALES ARE TO EXTEND UPSLOPE SO THE TRAPPED RUNOFF CANNOT FLOW AROUND THE ENDS OF THE BARRIER.

MAINTENANCE REQUIREMENTS

- CONTRACTOR SHALL INSPECT STRAW BALE BARRIERS IMMEDIATELY AFTER EACH RAINFALL AT LEAST DAILY DURING PROLONGED RAINFALL AND WEEKLY DURING PERIODS NO RAINFALL.
- DAMAGED OR INEFFECTIVE BARRIERS SHALL PROMPTLY BE REPAIRED. REPLACING BALES IF NECESSARY, AND UNTRENCHED BALES NEED TO BE REPAIRED WITH COMPACTED BACKFILL MATERIAL.
- SEDIMENT SHALL BE REMOVED FROM BEHIND STRAW BALE BARRIERS WHEN IT ACCUMULATES TO APPROXIMATELY 1/2 THE HEIGHT OF THE BARRIER.
- STRAW BALE BARRIERS SHALL BE REMOVED WHEN ADEQUATE VEGETATIVE COVER IS ATTAINED AS APPROVED BY THE CITY.

City of Colorado Springs Stormwater Quality

Figure SBB-2
Straw Bale Barrier
Construction Detail and Maintenance Requirements

RECOMMENDED ANNUAL GRASSES

SPECIES (COMMON NAME)	GROWTH SEASON	SEEDING DATE	POUNDS OF PURE LIVE SEED (PLS) (PL BAGS)	PLANTING DEPTH (INCHES)
1. OATS	COOL	MARCH 18 - APRIL 30	35-50	1-2
2. SPRING WHEAT	COOL	MARCH 18 - APRIL 30	25-35	1-2
3. SPRING BARLEY	COOL	MARCH 18 - APRIL 30	25-35	1-2
4. ANNUAL RYEGRASS	COOL	MARCH 18 - JUNE 30	10-15	1/2
5. MILLET	WARM	MAY 16 - JULY 15	3-15	1/2-3/4
6. SUDANGRASS	WARM	MAY 16 - JULY 15	5-10	1/2-3/4
7. SORGHUM	WARM	MAY 16 - JULY 15	5-10	1/2-3/4
8. WINTER WHEAT	COOL	SEPTEMBER 1 - 30	20-35	1-2
9. WINTER BARLEY	COOL	SEPTEMBER 1 - 30	20-35	1-2
10. WINTER RYE	COOL	SEPTEMBER 1 - 30	20-35	1-2
11. TRITICALE	COOL	SEPTEMBER 1 - 30	25-40	1-2

THIS TABLE WAS TAKEN FROM UDPD FOR RECOMMENDED ANNUAL GRASSES FOR THE DENVER METROPOLITAN AREA. THIS TABLE MAY BE USED UNLESS A SITE-SPECIFIC SEED MIX IS REQUESTED AND APPROVED.

TABLE TS-1

TEMPORARY SEEDING NOTES

INSTALLATION REQUIREMENTS

- DISTURBED AREAS ARE TO BE SEEDDED WITHIN 21 DAYS AFTER CONSTRUCTION ACTIVITY OR GRADING ENDS IF SEASON ALLOWS.
- IF NECESSARY, SOIL IS TO BE CONDITIONED FOR PLANT GROWTH BY APPLYING TOPSOIL, FERTILIZER, OR LIME.
- SOIL IS TO BE FILLED IMMEDIATELY PRIOR TO APPLYING SEEDS. COMPACT SOILS ESPECIALLY NEED TO BE LOOSENED.
- SEEDDED DEPTH IS TO BE 4 INCHES FOR SLOPES FLATTER THAN 2:1, AND 1 INCH FOR SLOPES STEEPER THAN 2:1.
- ANNUAL GRASSES LISTED IN TABLE TS-1 ARE TO BE USED FOR TEMPORARY SEEDING. SEED MIXES ARE NOT TO CONTAIN ANY NOXIOUS WEED SEEDS INCLUDING RUSSIAN OR CANADIAN THISTLE, COMPRIED, PURPLE LOOSESTRIFE, EUROPEAN BINDWEED, JOHNSON GRASS, AND LEAFY SPURGE.
- TABLE TS-1 ALSO PROVIDES REQUIREMENTS FOR SEEDING RATES, SEEDING DATES, AND PLANTING DEPTHS FOR THE APPROVED TYPES OF ANNUAL GRASSES.
- SEEDING IS TO BE APPLIED USING MECHANICAL TYPE DRILLS EXCEPT WHERE SLOPES ARE STEEP OR ACCESS IS LIMITED THEN HYDRAULIC SEEDING MAY BE USED.
- ALL SEEDDED AREAS ARE TO BE MULCHED (SEE FACTSHEET ON MULCHING).
- IF HYDRAULIC SEEDING IS USED THEN HYDRAULIC MULCHING SHALL BE DONE SEPARATELY TO AVOID SEEDS BECOMING ENCAPSULATED IN THE MULCH.

MAINTENANCE REQUIREMENTS

- REGULAR INSPECTIONS ARE TO BE MADE OF ALL SEEDDED AREAS TO ENSURE GROWTH.
- AREAS WHERE GROWTH IS NOT OCCURRING QUICKLY OR THE MULCH HAS BEEN REMOVED SHALL BE RE-SEEDDED AS SOON AS POSSIBLE AND RE-MULCHED IF NEEDED.
- SEEDDED AREAS ARE NOT TO BE DRIVEN OVER WITH CONSTRUCTION EQUIPMENT OR VEHICLES.

City of Colorado Springs Stormwater Quality

Figure TS-1
Temporary Seeding
Construction Detail and Maintenance Requirements

MULCHING NOTES

INSTALLATION REQUIREMENTS

- ALL DISTURBED AREAS MUST BE MULCHED WITHIN 21 DAYS AFTER FINAL GRADE AND SEEDDED AREAS ARE TO BE MULCHED WITHIN 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 FREE FORAGE CERTIFICATION PROGRAM.
- HYDRAULIC MULCHING MATERIAL SHALL CONSIST OF VIRGIN WOOD FIBER MANUFACTURED FROM CLEAN WHOLE WOOD CHIPS. WOOD CHIPS CANNOT CONTAIN ANY GROWTH OR GERMINATION INHIBITORS OR BE PRODUCED FROM RECYCLED MATERIAL. GRAVEL CAN ALSO BE USED.
- MULCH IS TO BE APPLIED EVENLY AT A RATE OF 2 TONS PER ACRE.
- MULCH IS TO BE ANCHORED EITHER BY CRIMPING (TUCKING MULCH FIBERS 4 INCHES INTO THE SOIL), USING NETTING (USED ON SMALL AREAS WITH STEEP SLOPES), OR WITH A TACKIFIER.
- HYDRAULIC MULCHING AND TACKIFIERS ARE NOT TO BE USED IN THE PRESENCE OF FREE SURFACE WATER.

MAINTENANCE REQUIREMENTS

- REGULAR INSPECTIONS ARE TO BE MADE OF ALL MULCHED AREAS.
- MULCH IS TO BE REPLACED IMMEDIATELY IN THOSE AREAS IT HAS BEEN REMOVED, AND IF NECESSARY THE AREA SHOULD BE RESEEDDED.

City of Colorado Springs Stormwater Quality

Figure MU-1
Mulching
Construction Detail and Maintenance Requirements

Table TSW-1

Temporary Swale Used as Perimeter Control	Case 1 DA < 1.0 AC	Case 2 DA > 1.0 AC
Continuous Grade	OK ⁽¹⁾	OK ⁽¹⁾
Area of Concentrated Flow	NO ⁽³⁾	NO ⁽²⁾

(1) Silt Fence or Straw Bale Barrier may be used as alternative to a Temporary Swale.
(2) With Temporary Swales Sediment Basin is required for concentrated flow from drainage areas > 1.0 AC.
(3) Check Dam is required at concentrated flow for drainage areas > 1.0 acres.

City of Colorado Springs Storm Water Quality

Figure TSW-1
Temporary Swale
Application Examples

TEMPORARY SWALE NOTES

INSTALLATION REQUIREMENTS

- TEMPORARY SWALES SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.
- THE AREA UNDER WHICH THE EMBANKMENT IS TO BE INSTALLED SHALL BE CLEARED, GRUBBED, AND STRIPPED OF ALL VEGETATION AND ROOT MAT.
- EMBANKMENT MATERIAL SHALL CONSIST OF SOIL WITH A MINIMUM OF 15% PASSING A #200 SIEVE. EXCAVATED SOIL CAN BE USED IF IT MEETS THIS REQUIREMENT.
- EMBANKMENT IS TO BE COMPACTED TO AT LEAST 90% OF MAXIMUM DENSITY AND WITHIN 2% OF OPTIMUM MOISTURE CONTENT ACCORDING TO ASTM D 698.
- SWALES WITH SLOPE > 2% SHALL BE LINED, SEE FIGURE TSW-3.
- SWALES ARE TO DRAIN INTO A SEDIMENT BASIN OR OTHER STABILIZED OUTLET.
- Z SHALL BE 3 OR GREATER.

MAINTENANCE REQUIREMENTS

- CONTRACTOR SHALL INSPECT SWALES AFTER EACH RAINFALL, AT LEAST DAILY DURING PROLONGED RAINFALL, AND WEEKLY DURING PERIODS OF NO RAINFALL.
- SWALES SHALL BE ROUTINELY CLEARED OF ANY DEBRIS OR ACCUMULATION OF SEDIMENT.
- ERODED SLOPES OR DAMAGED LININGS SHALL IMMEDIATELY BE REPAIRED.
- TEMPORARY SWALES SHALL REMAIN OPERATIONAL AND PROPERLY MAINTAINED UNTIL THE SITE AREA IS PERMANENTLY STABILIZED WITH ADEQUATE VEGETATIVE COVER AND/OR OTHER PERMANENT STRUCTURE AS APPROVED BY THE CITY.

City of Colorado Springs Stormwater Quality

Figure TSW-2
Temporary Swale
Construction Detail and Maintenance Requirements

SWALE LINING NOTES

INSTALLATION REQUIREMENTS

- REFER TO THE EROSION CONTROL BLANKETS FACTSHEET FOR PROPER INSTALLATION OF LEAST DAILY DURING PROLONGED RAINFALL AND WEEKLY DURING PERIODS OF NO RAINFALL.
- SWALES WITH EASILY ERODIVE SOILS AND SLOPES LESS THAN 2%, SHALL BE LINED WITH EROSION CONTROL FABRIC.
- VELOCITIES FOR EROSION CONTROL FABRICS SHALL NOT EXCEED 8 FPS. SWALES WITH VELOCITIES GREATER THAN 8 FPS SHALL BE LINED WITH RIP RAP.

MAINTENANCE REQUIREMENTS

- CONTRACTOR SHALL INSPECT SWALE LININGS AFTER EACH RAINFALL AT LEAST DAILY DURING PROLONGED RAINFALL AND WEEKLY DURING PERIODS OF NO RAINFALL.
- DAMAGED LININGS SHALL IMMEDIATELY BE REPAIRED.
- REFER TO THE EROSION CONTROL BLANKETS FACTSHEET FOR PROPER MAINTENANCE.
- DISPLACED RIPRAP OR COARSE AGGREGATE IS TO BE REPLACED AS SOON AS POSSIBLE.
- SWALE LININGS ARE TO REMAIN IN PLACE AND BE PROPERLY MAINTAINED UNTIL THE TEMPORARY SWALE IS REMOVED.

City of Colorado Springs Stormwater Quality

Figure TSW-3
Swale Linings
Construction Detail and Maintenance Requirements

SEDIMENT CONTROL LOGS

INSTALLATION NOTES

- ALL SEDIMENT CONTROL LOGS MUST BE EMBEDDED TO 3/4 OF THE HEIGHT OF THE LOG.
- LARGER DIAMETER SEDIMENT CONTROL LOGS NEED TO BE EMBEDDED DEEPER.
- PLACE SEDIMENT CONTROL LOG AGAINST SIDEWALK OR BACK OF CURB WHEN ADJACENT TO THESE FEATURES.
- SEDIMENT CONTROL LOGS SHALL CONSIST OF STRAW, COMPOST, EXCELISOR OR COCOBUT FIBER, AND SHALL BE FREE FROM ANY NOXIOUS WEED SEEDS OF DEFECTS INCLUDING RIPS, HOLES AND OBVIOUS WEAR.
- IF USING AS SLOPE PROTECTION, INSTALL SEDIMENT CONTROL LOGS ALONG THE CONTOUR.

MAINTENANCE NOTES

- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN CONTROL MEASURES IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- ACCUMULATED SEDIMENT MUST BE REMOVED WHEN THE HEIGHT REACHES 3/4 OF THE HEIGHT OF THE SEDIMENT CONTROL LOG.
- PERMANENTLY STABILIZE AREA AFTER SEDIMENT CONTROL LOGS HAVE BEEN REMOVED.

City of Colorado Springs Stormwater Quality

Figure TSW-3
Sediment Control Logs
Construction Detail and Maintenance Requirements

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PREPARED FOR: MAYBERRY COMMUNITIES, LLC
3296 DIVINE HEIGHTS #208
COLORADO SPRINGS, CO 80922

GESC PLANS

JOB NO. MC22110
ORG. SUBM. DATE 06/16/2022
DWN: LAO CHD: CJD
NAME

E&S DETAILS

NO. C8.8

PLAN: P. MC22110 MAYBERRY FILING NO. 3 (ENGINEERING & DRAWINGS) PLAN: G05 - GESC - E&S DETAILS DWS, PLOT DATE: 1/12/2023 12:04:02 PM, BY: LNN, D: GARDY



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Wetland Native Seed Mixes

Table A-8. Wetland seed mix - loamy to sandy soils (Recommended for detention ponds and less eroding wetland areas.)

Table with 7 columns: Common Name, Scientific Name, Growth Season, Growth Form, % Mix, Wetland Indicator*, Lb/acre (PLS)*. Includes species like American Sloughgrass, Prairie cordgrass, Switchgrass, etc.

TOTAL PLS POUNDS/ACRE 19.8

Table A-9. Wetland seed mix - clay and alkali soils (Recommended for detention ponds and wetland areas.)

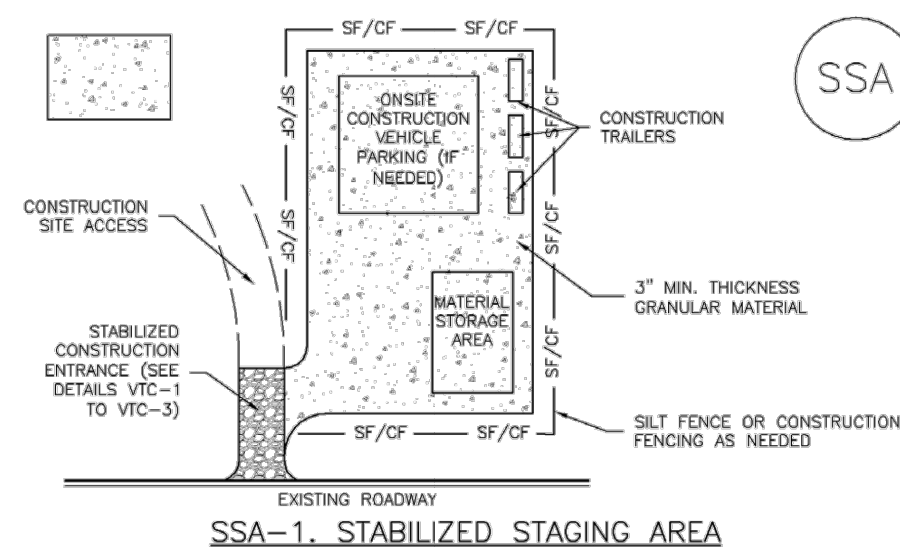
Table with 7 columns: Common Name, Scientific Name, Growth Season, Growth Form, % Mix, Wetland Indicator*, Lb/acre (PLS)*. Includes species like Alkali sacaton, Inland saltgrass, Nuttall's alkali grass, etc.

TOTAL PLS POUNDS/ACRE 20.1

PLS = Pure Live Seed - If broadcast seeding, double the rate. Note: Wildflowers species not recommended for clay or alkali soils. Wetland Indicator Key for Tables A-8 and A-9: FAC = Facultative - Equally occurs in both wetlands and uplands.

Figure SB-1: Sediment Basin. Includes a cross-section diagram of a basin with notes on installation and maintenance. Includes Table SB-1: Required Area per Row (ft²) and Table SB-2: Circular Perforation Sizing.

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). 2. STABILIZED STAGING AREA SHOULD BE APPROPRIATE FOR THE NEEDS OF THE SITE.

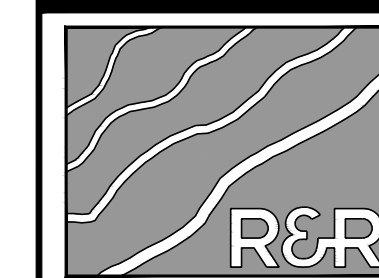
- STABILIZED STAGING AREA MAINTENANCE NOTES: 1. INSPECT BMPs EACH WORKDAY AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. 2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION.

SM-6 Stabilized Staging Area (SSA)

- STABILIZED STAGING AREA MAINTENANCE NOTES: 5. STABILIZED STAGING AREA SHALL BE ENLARGED IF NECESSARY TO CONTAIN PARKING, STORAGE, AND UNLOADING/LOADING OPERATIONS. 6. THE STABILIZED STAGING AREA SHALL BE REMOVED AT THE END OF CONSTRUCTION.

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Revision table with columns: NO., REVISION, DATE. Includes 2ND and 3RD SUBMISSION entries.



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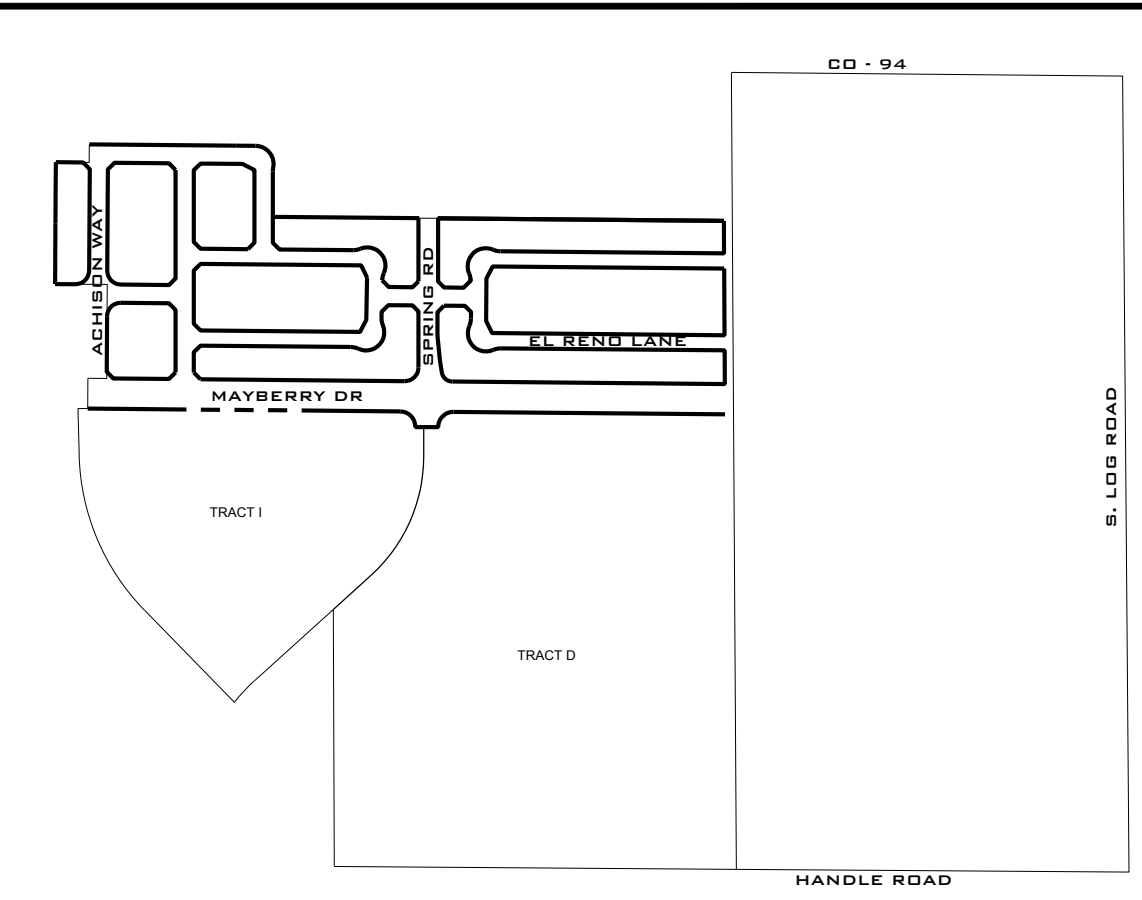
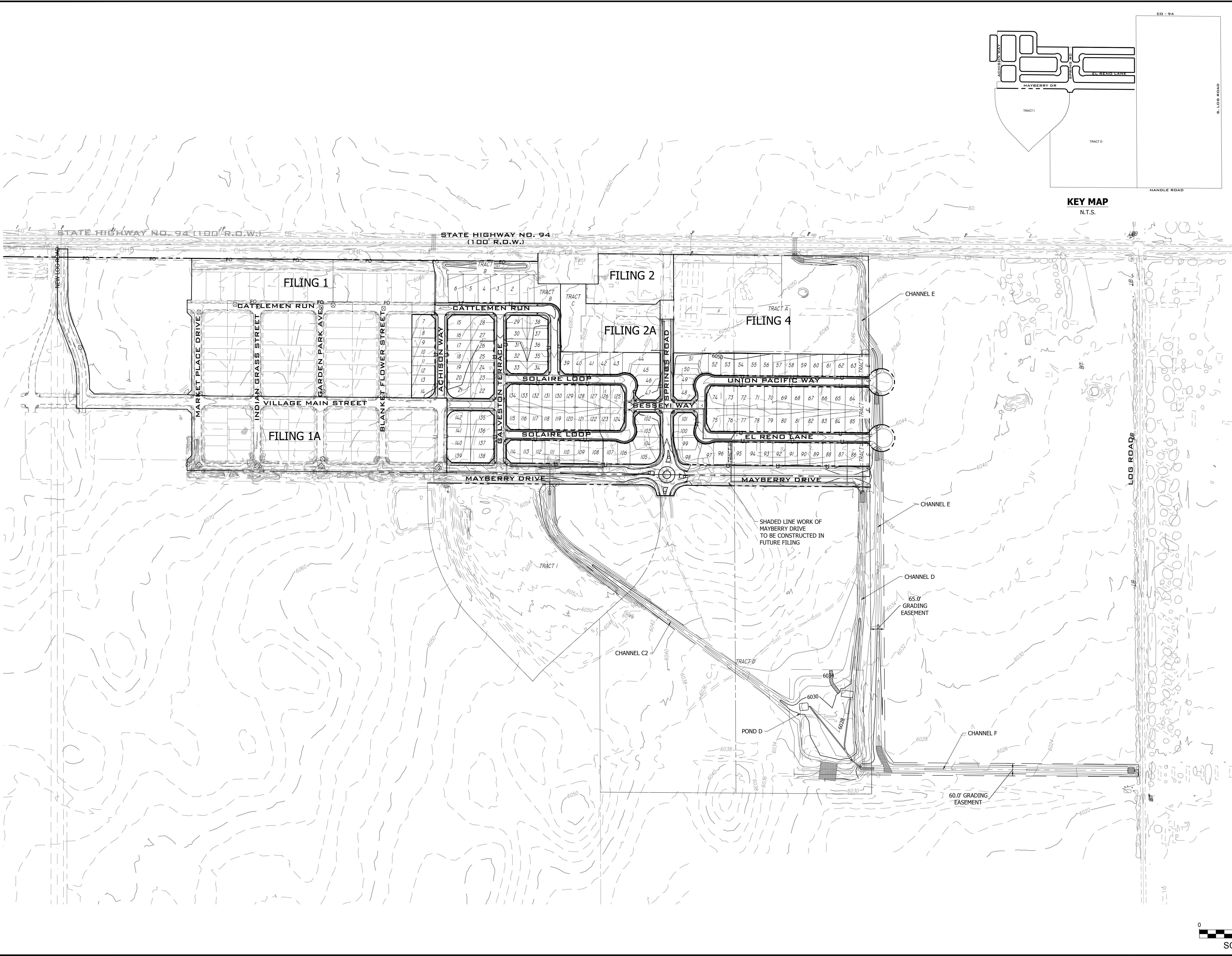
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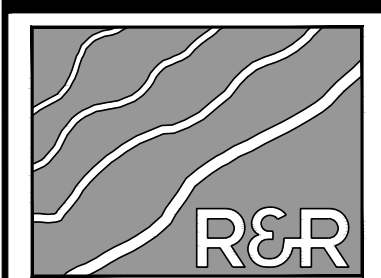
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	3RD SUBMISSION		01/17/23



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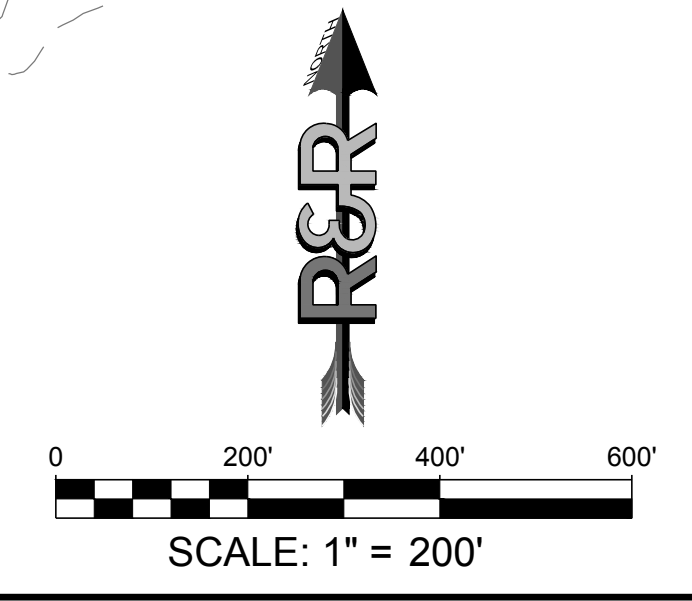
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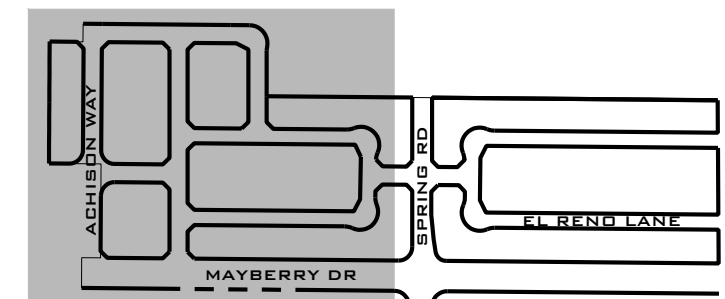
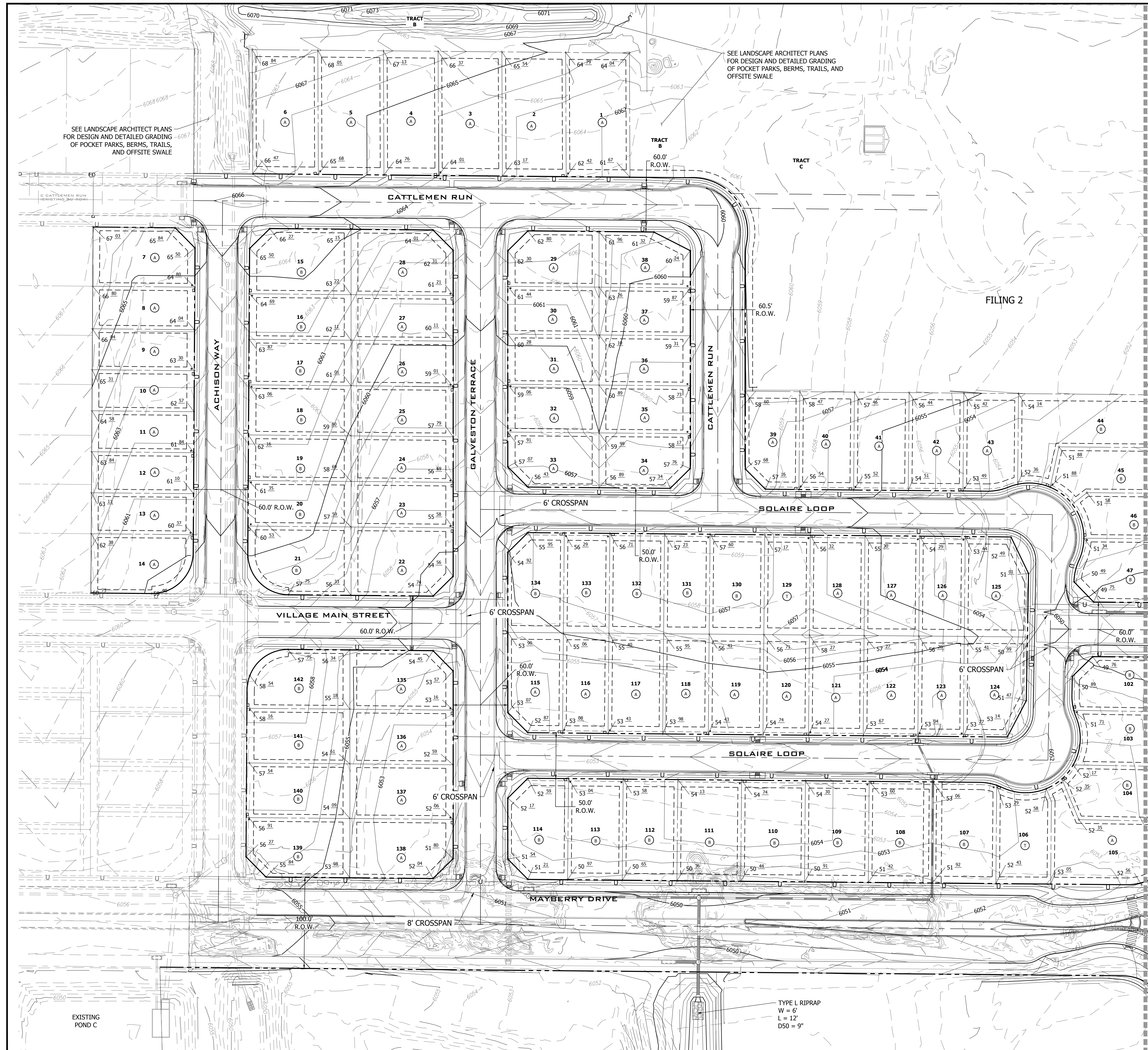
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OVERALL GRADING PLAN

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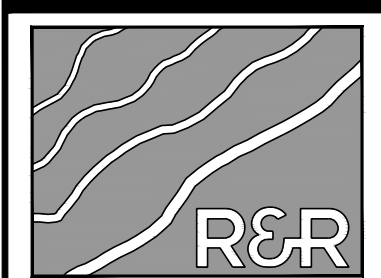




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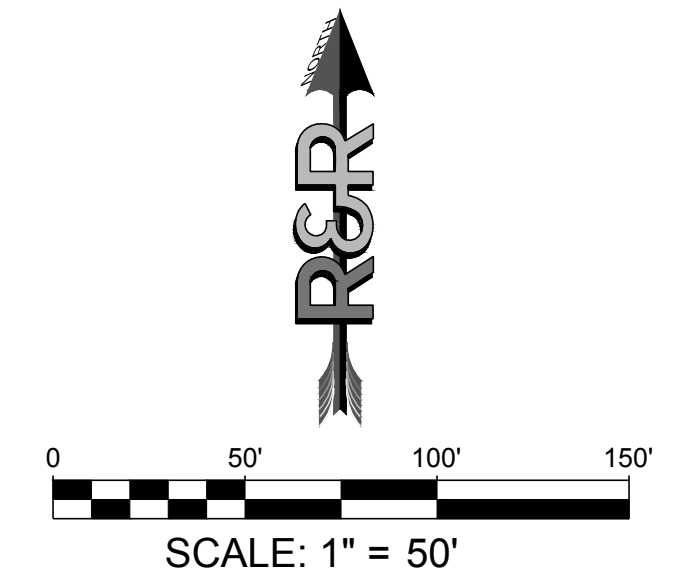
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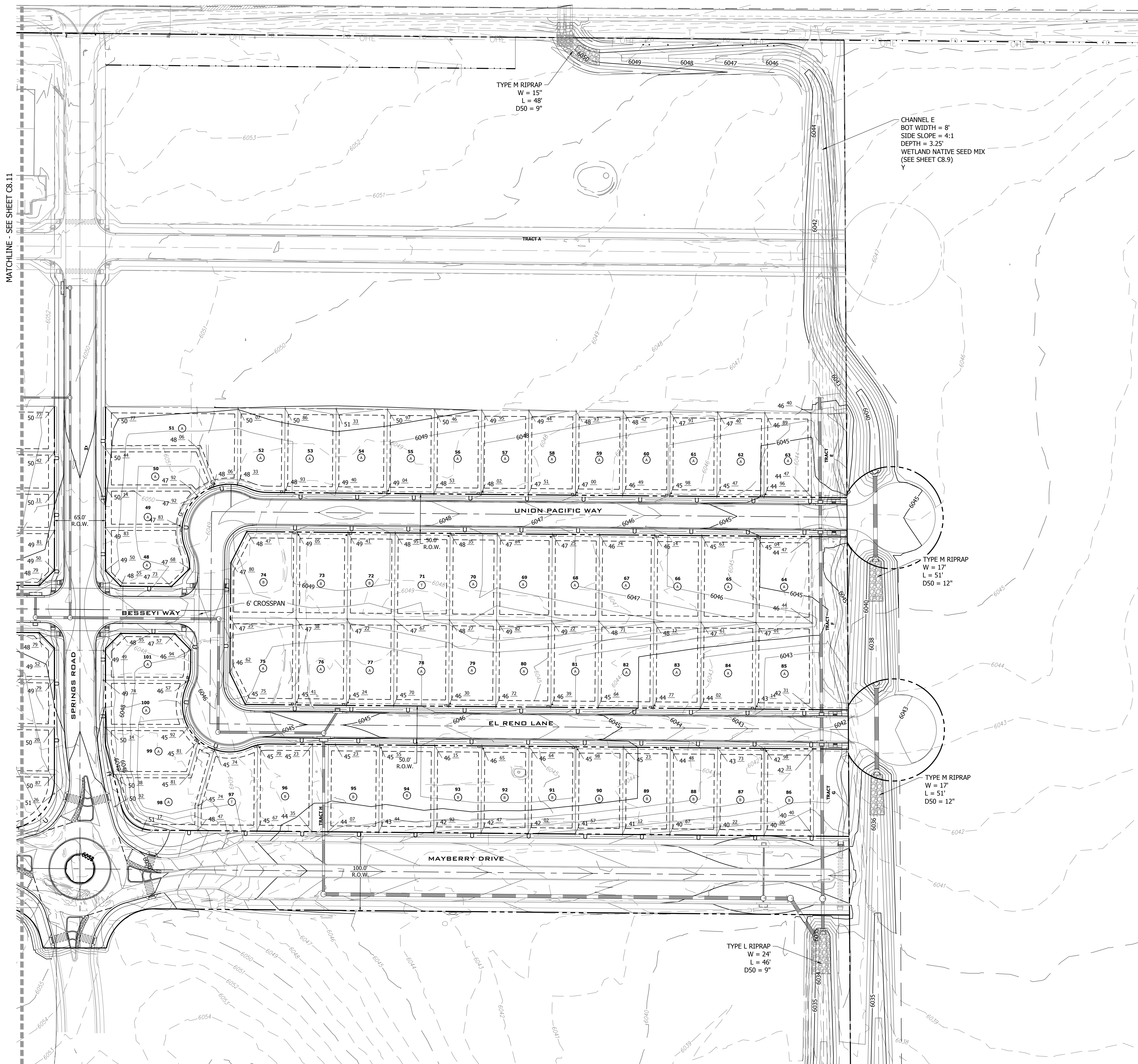
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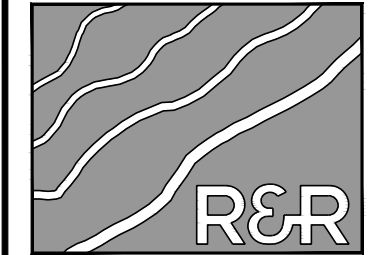
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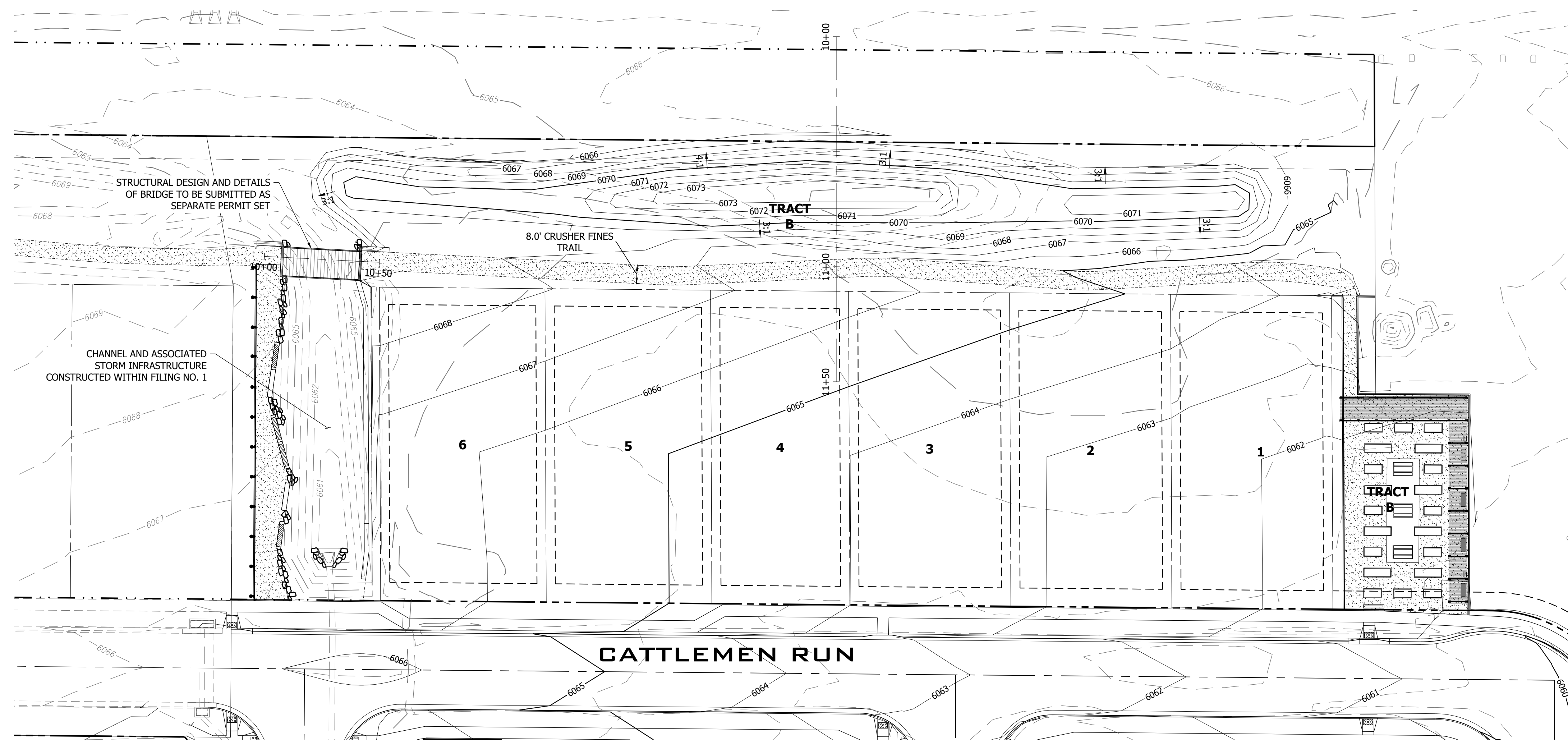
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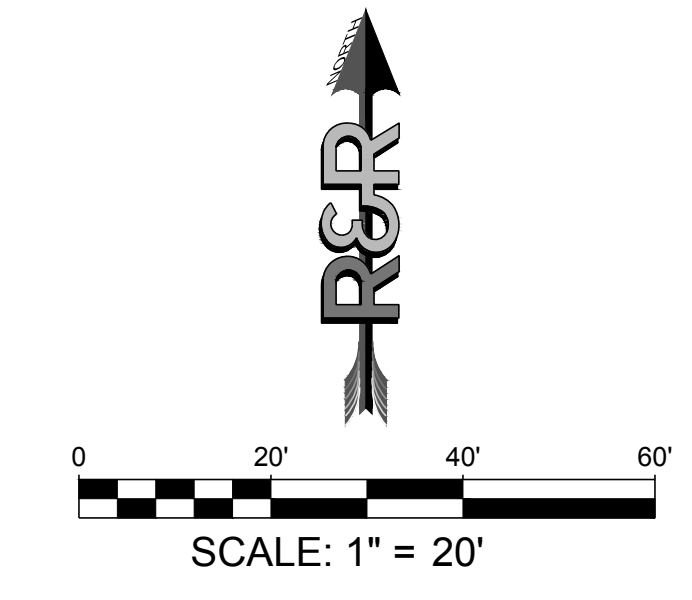
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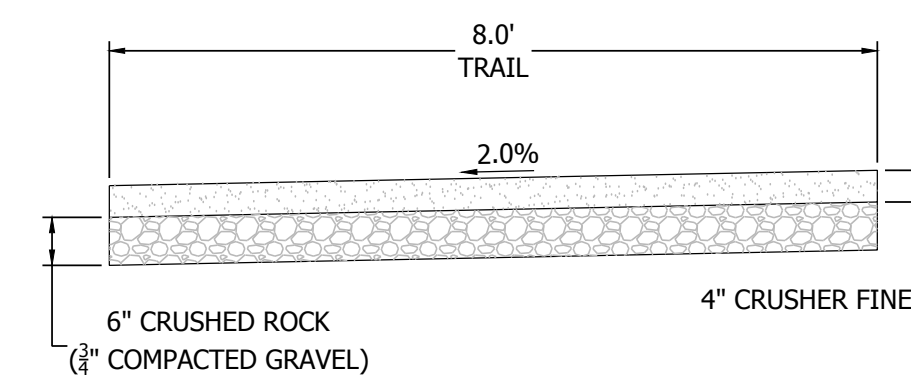
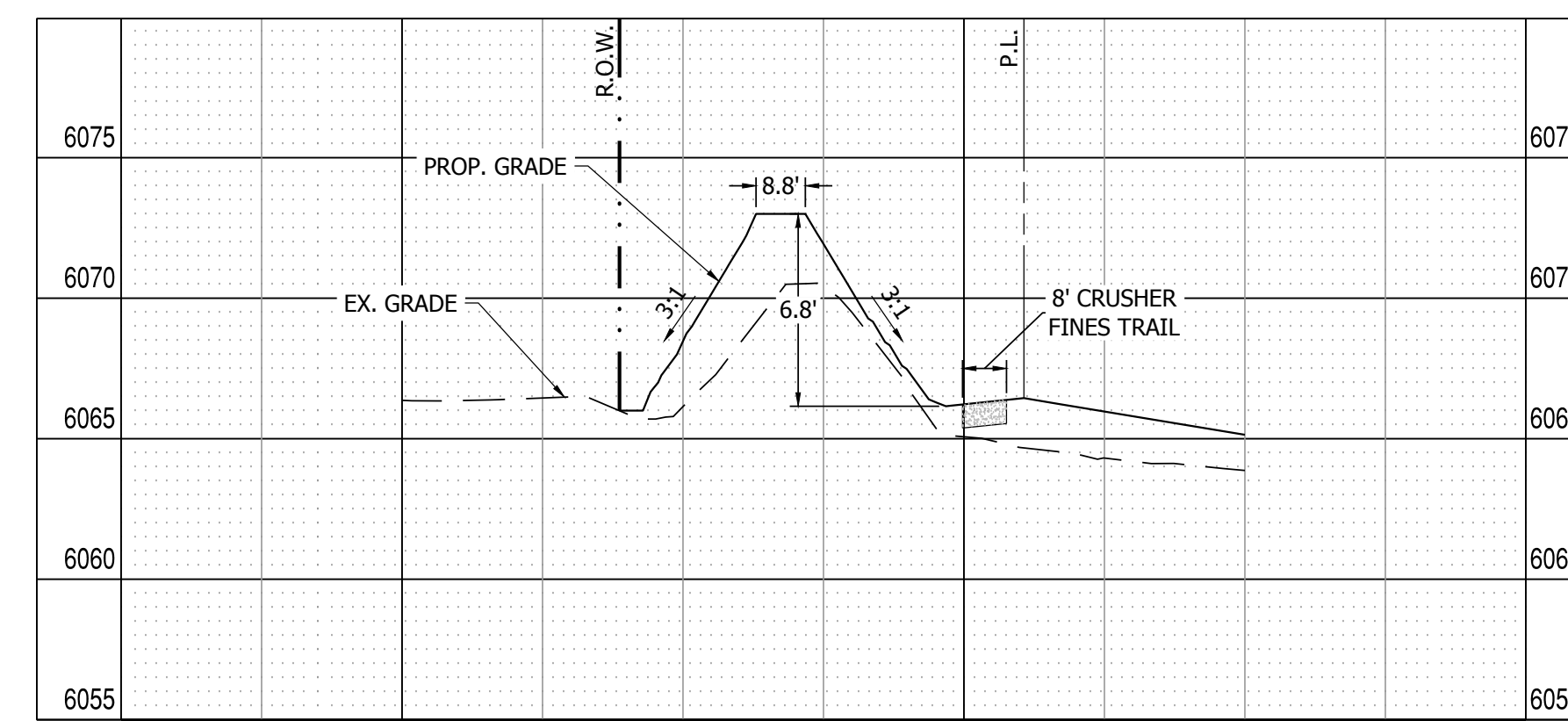
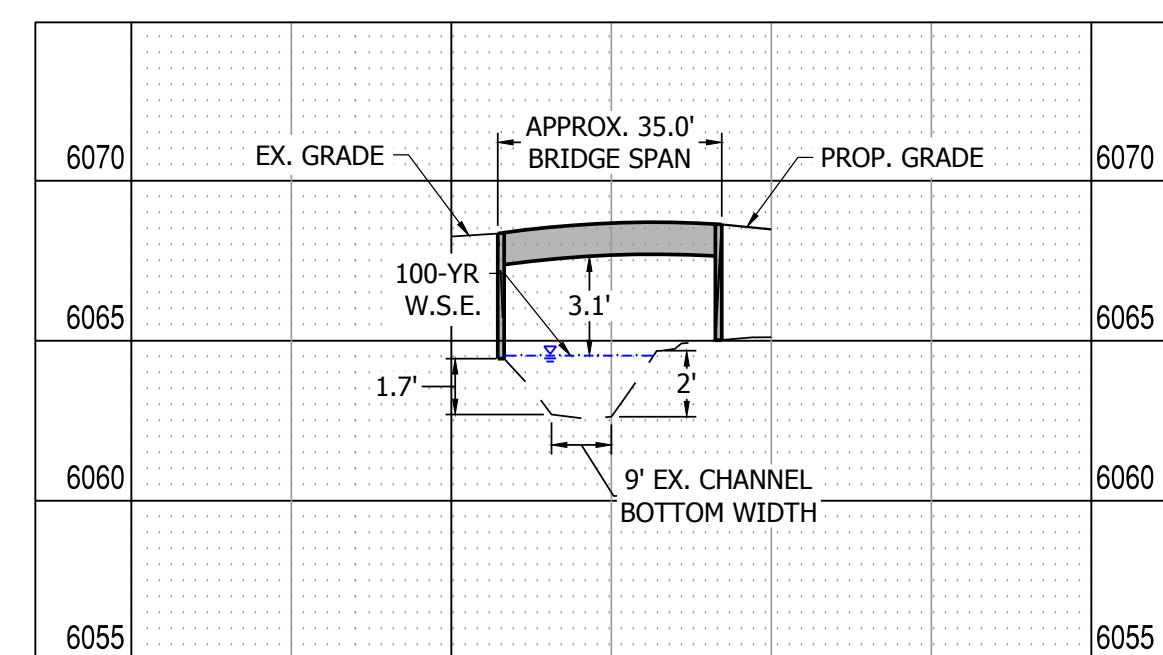
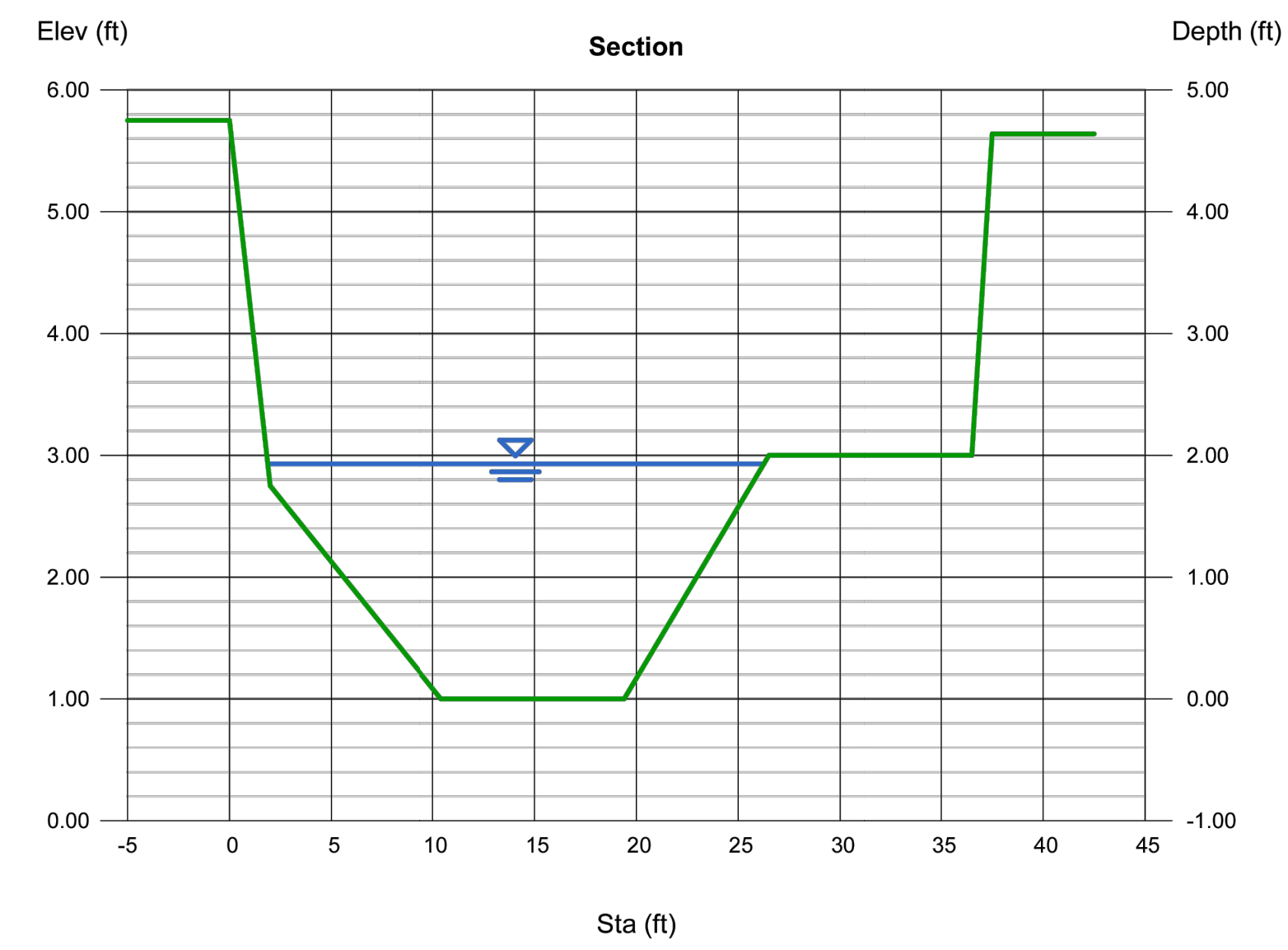
Channel Report

Hydraflow Express Extension for Autodesk® Civil 3D® by Autodesk, Inc. Wednesday, Dec 14 2022

MAYBERRY FILING NO. 1 CHANNEL DEPTH

User-defined		Highlighted	
Invert Elev (ft)	= 1.00	Depth (ft)	= 1.93
Slope (%)	= 1.00	Q (cfs)	= 196.00
N-Value	= 0.030	Area (sqft)	= 32.85
		Velocity (ft/s)	= 5.97
Calculations		Wetted Perim (ft)	= 24.91
Compute by:	Known Q	Crit Depth, Yc (ft)	= 1.84
Known Q (cfs)	= 196.00	Top Width (ft)	= 24.37
		EGL (ft)	= 2.48

(Sta, El, n)-(Sta, El, n)...



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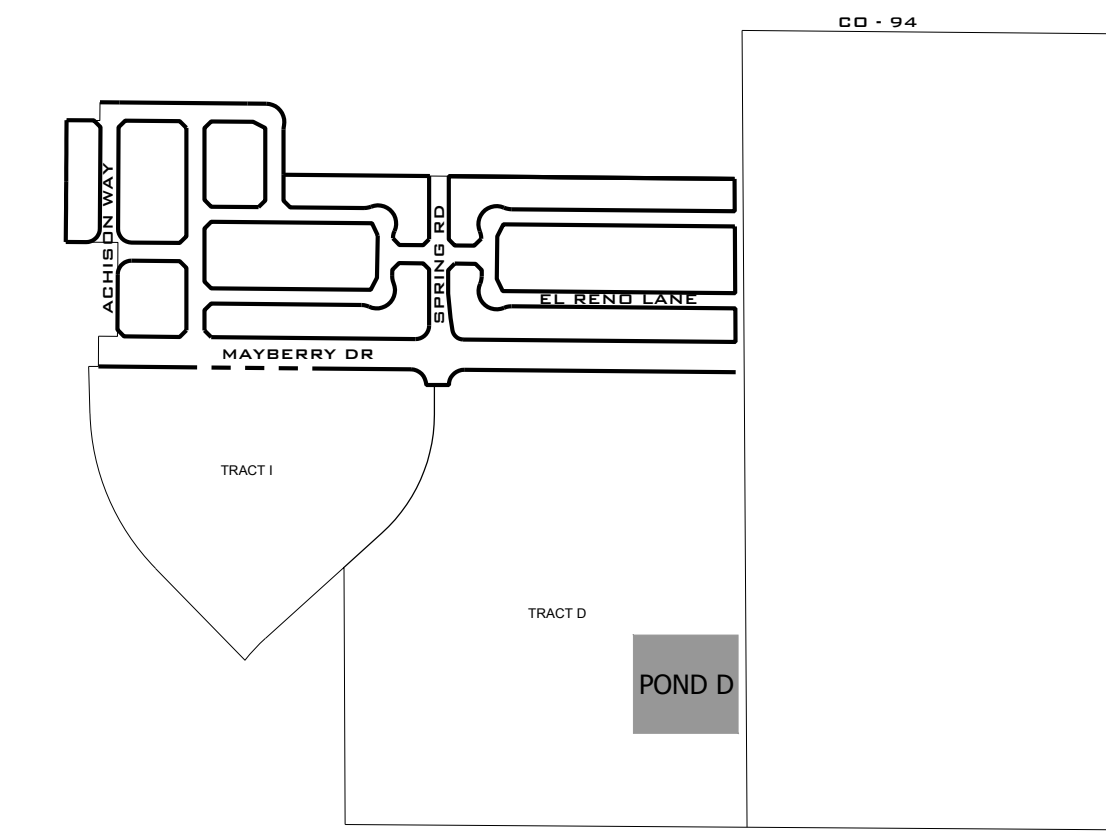
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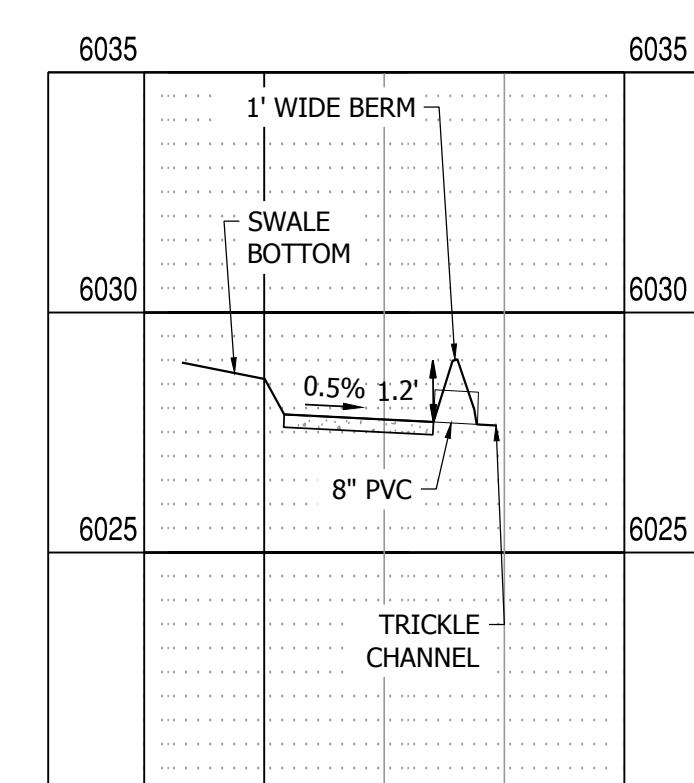
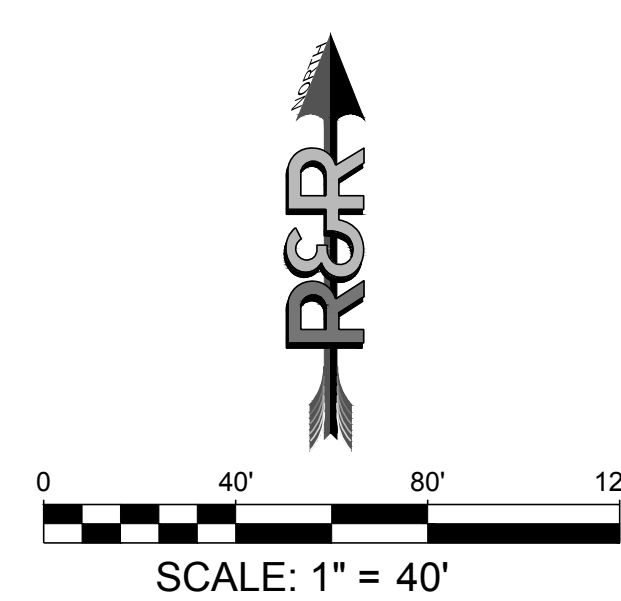
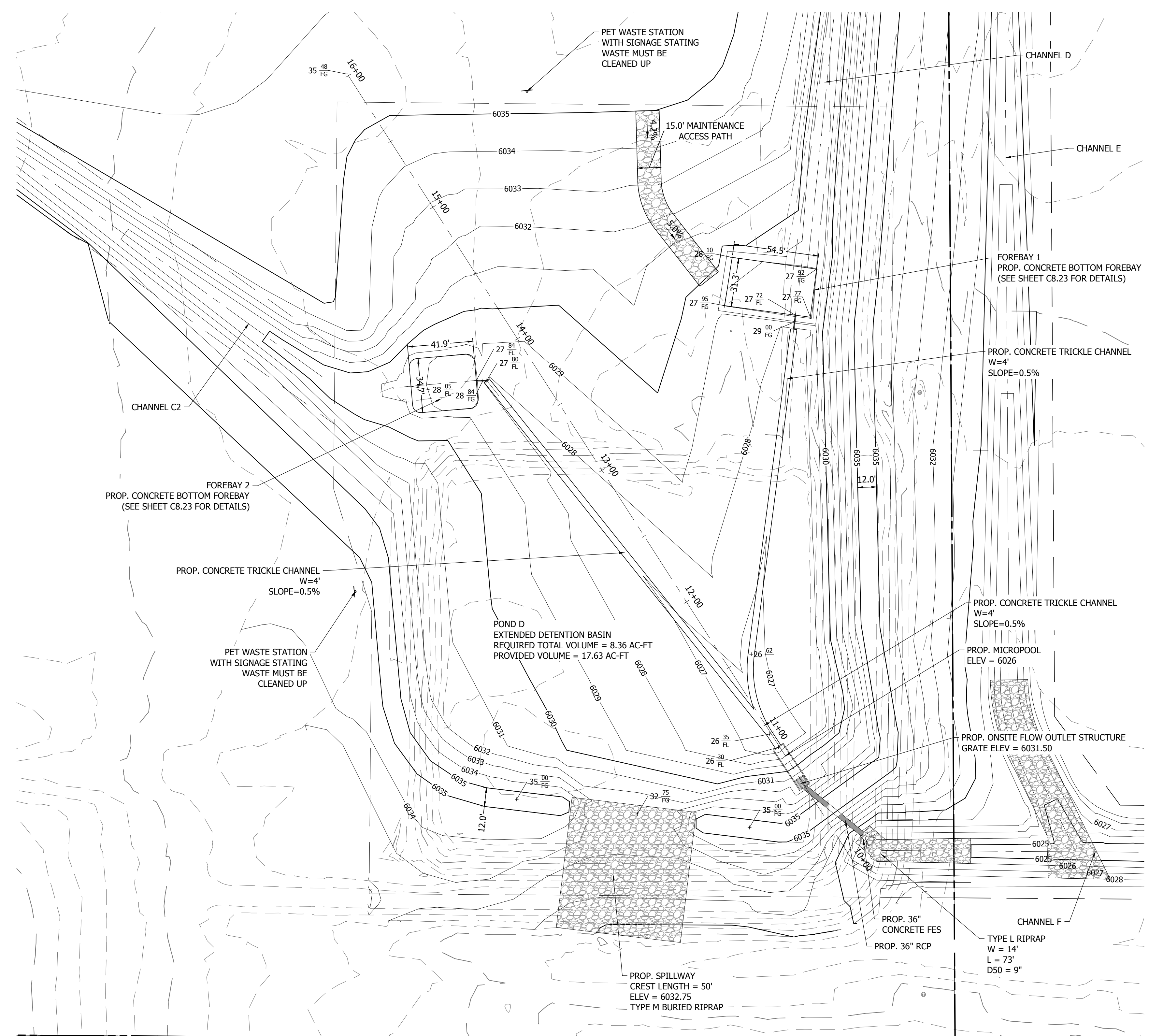
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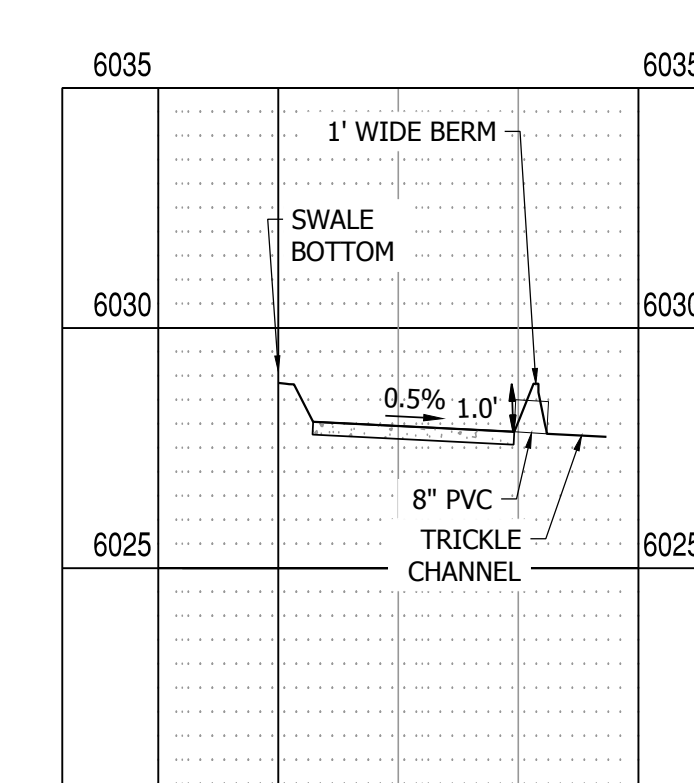
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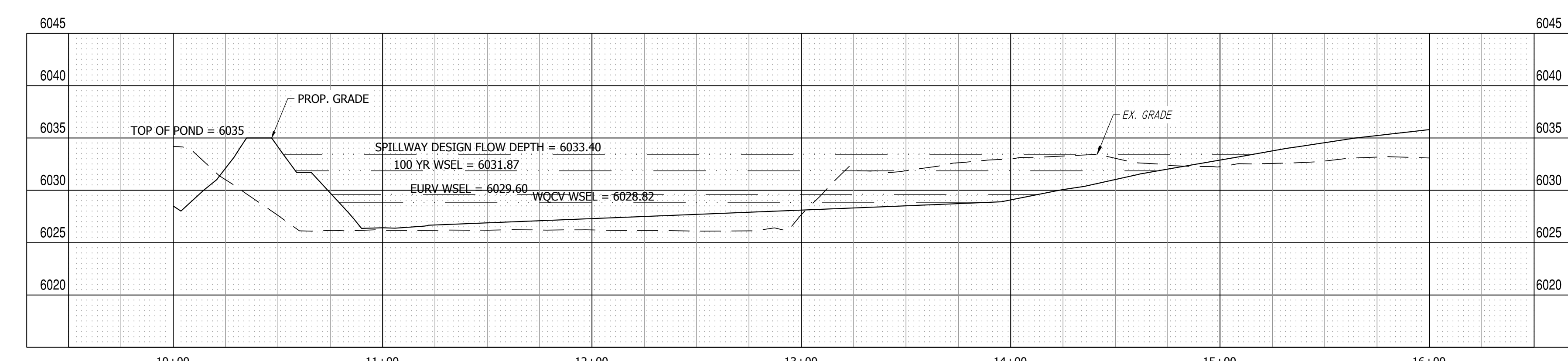
KEY MAP
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FOREBAY 1 PROFILE VIEW
HORIZONTAL SCALE: 1"=40'
VERTICAL SCALE: 1"=4'

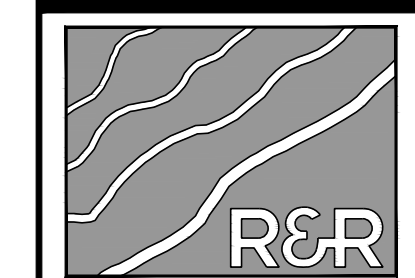


FOREBAY 2 PROFILE VIEW
HORIZONTAL SCALE: 1"=40'
VERTICAL SCALE: 1"=4'



POND D PROFILE VIEW
HORIZONTAL SCALE: 1"=40'
VERTICAL SCALE: 1"=8'

DATE	09/01/22
BY	01/17/23
REVISION	
NO.	
2ND SUBMISSION	
3RD SUBMISSION	



ENGINEERS
SURVEYORS

R&R ENGINEERS-SURVEYORS, INC.
1635 WEST 13TH AVENUE, SUITE 310
DENVER, COLORADO 80204
PHONE: 303-753-6730

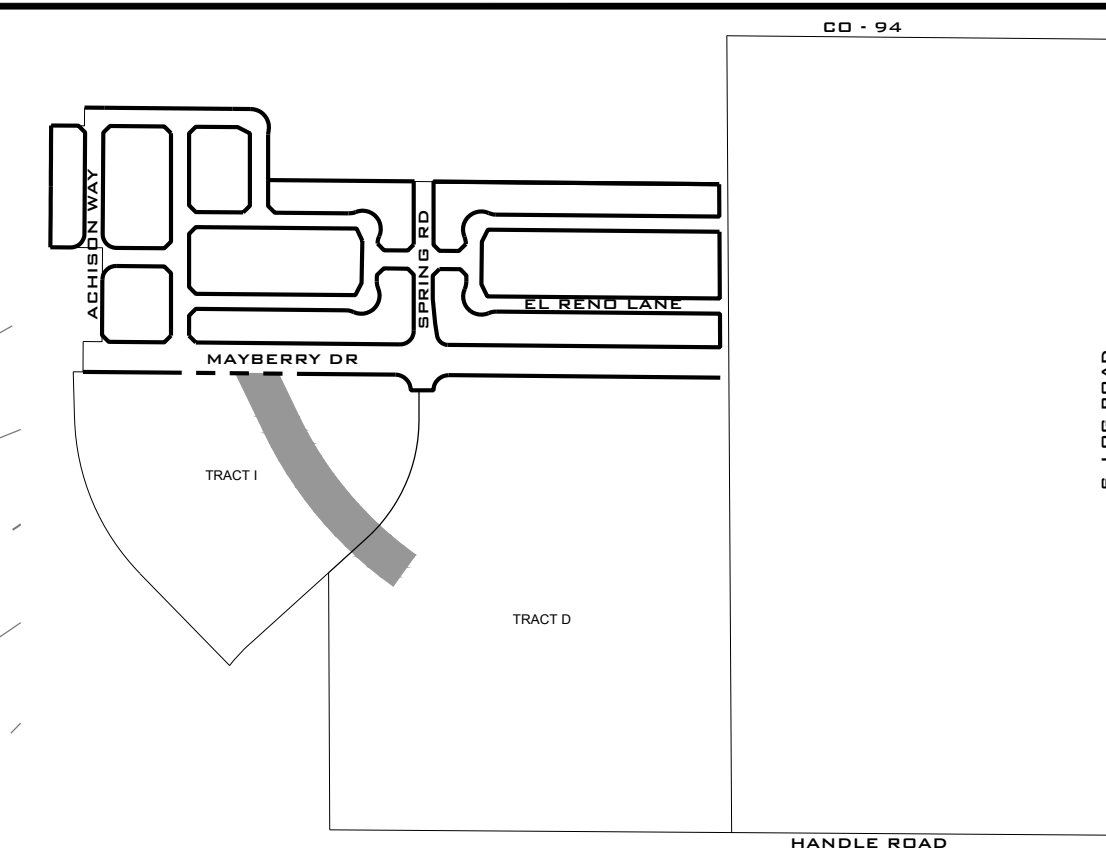
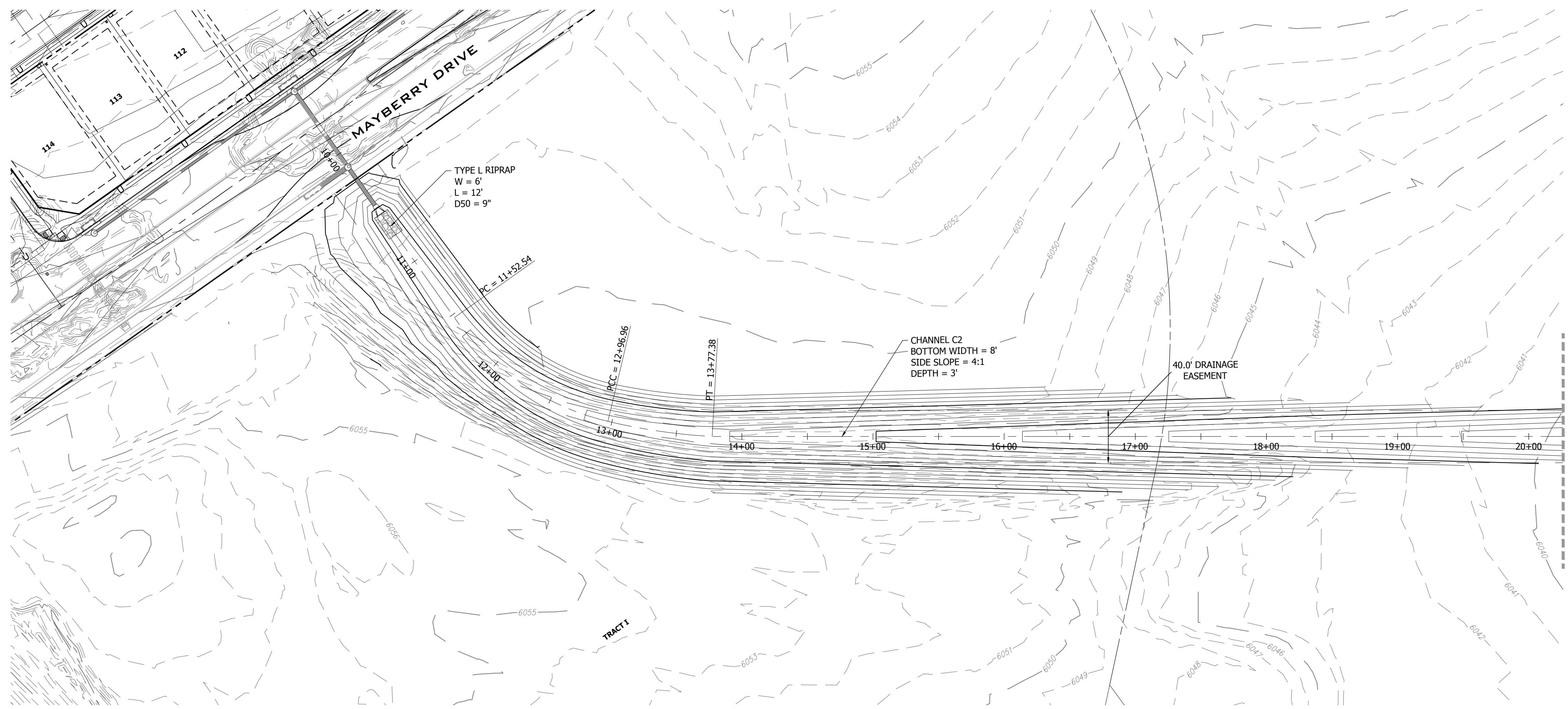
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FILING NO. 3
MAYBERRY PUD PH1 - FILING NO. 3
MAYBERRY, COLORADO SPRINGS
EL PASO COUNTY
PREPARED FOR:
MAYBERRY COMMUNITIES, LLC
3296 DIVINE HEIGHTS #208
COLORADO SPRINGS, CO 80922

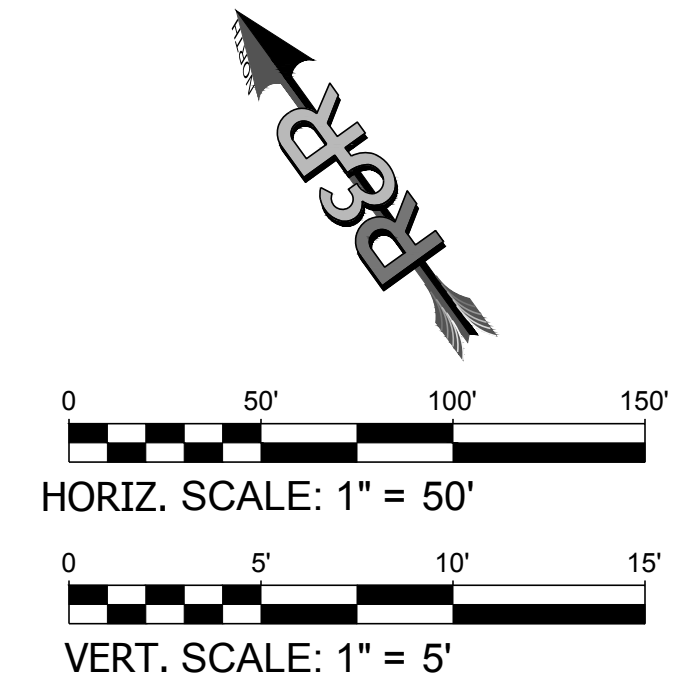
JOB NO.	MC22110
ORG. SUBM. DATE	06/16/2022
DWN:	LAO
CHKD:	CJD
NAME	

GRADING PLAN -
DETENTION POND

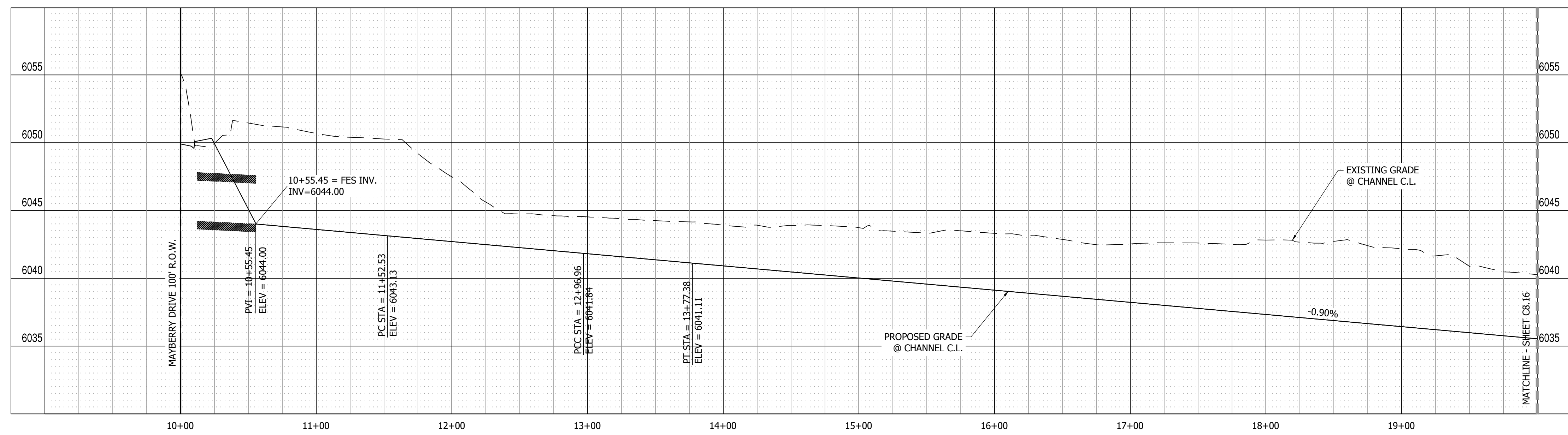
NO.
C8.14



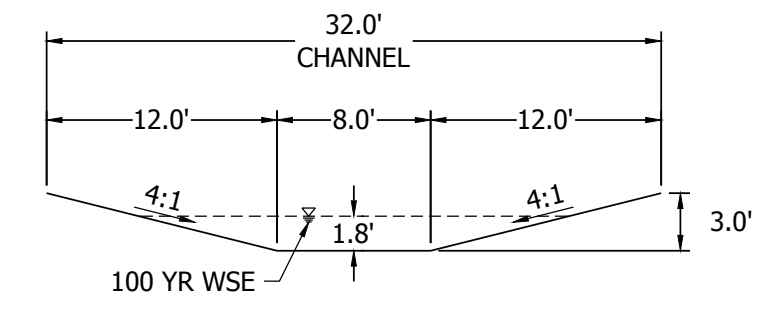
KEY MAP
N.T.S.



CHANNEL C2 9+00 TO 20+00
SCALE: 1" = 50'



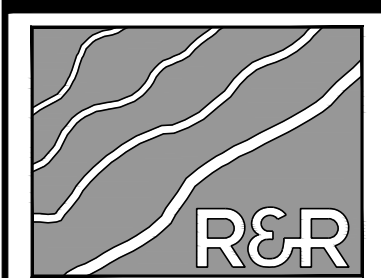
CHANNEL C2 PROFILE VIEW
HORIZONTAL SCALE: 1"=50'
VERTICAL SCALE: 1"=5'



CHANNEL C2 X-SECTION
SCALE: 1" = 10'



NO.	REVISION	BY	DATE
	2ND SUBMISSION		09/01/22
	3RD SUBMISSION		01/17/23



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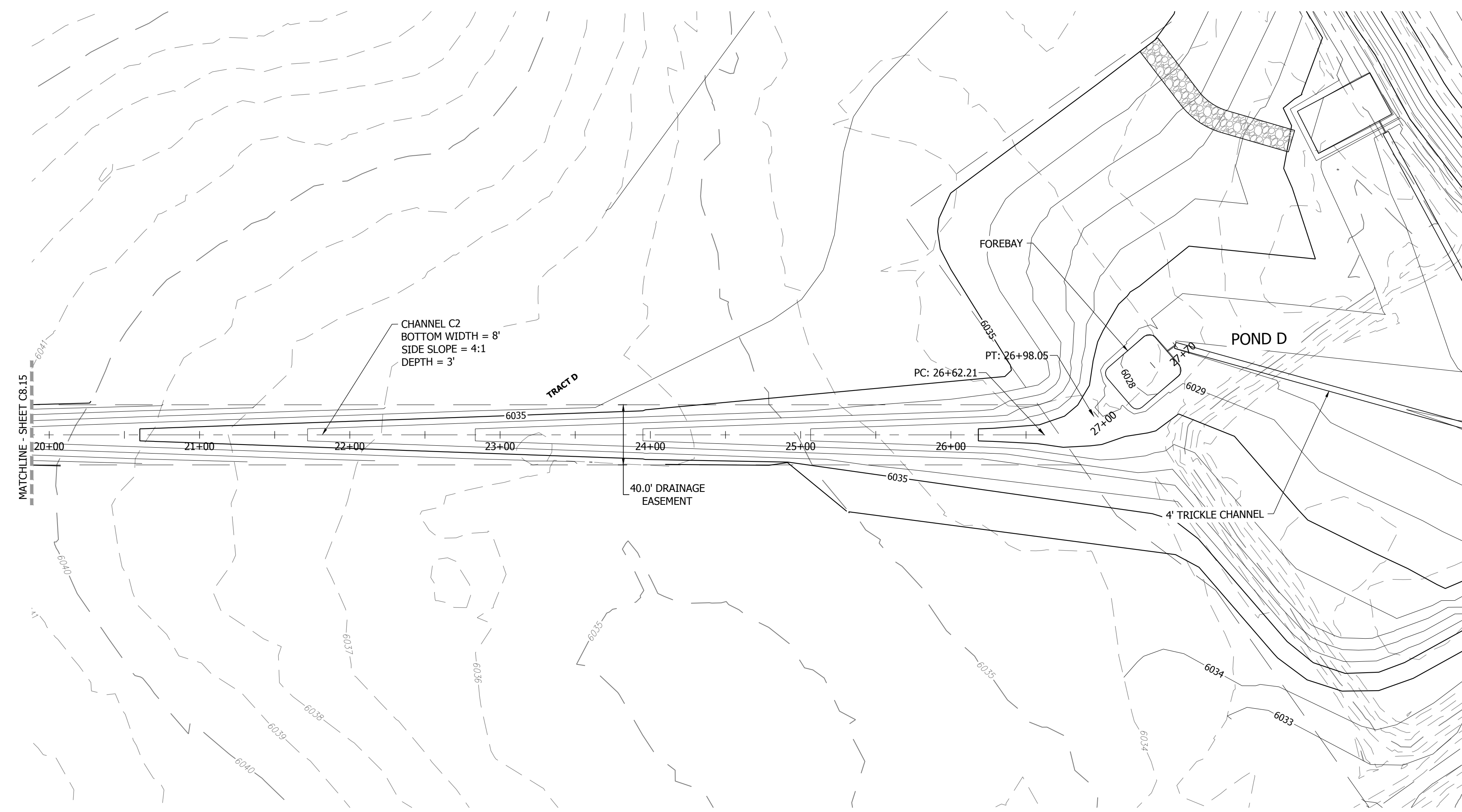
MAYBERRY PUD PH 1 - FILING NO. 3
SITE ADDRESS: MAYBERRY, COLORADO SPRINGS
EL PASO COUNTY
PREPARED FOR: MAYBERRY COMMUNITIES, LLC
3296 DIVINE HEIGHTS #208
COLORADO SPRINGS, CO 80922

GESC PLANS	
JOB NO.	MC22110
ORG. SUBM. DATE	06/16/2022
DWN:	LAO
CHKD:	CJD

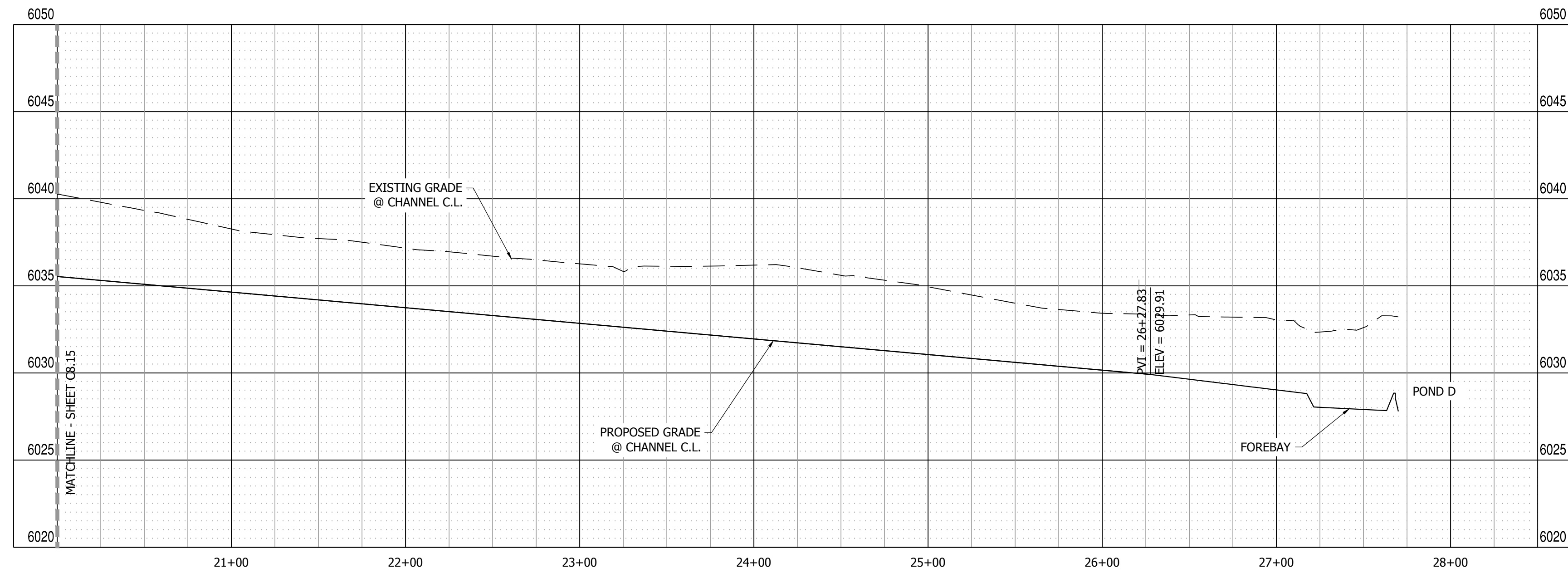
CHANNEL C2
PLAN & PROFILE
9+00 TO 20+00

NO.
C8.15

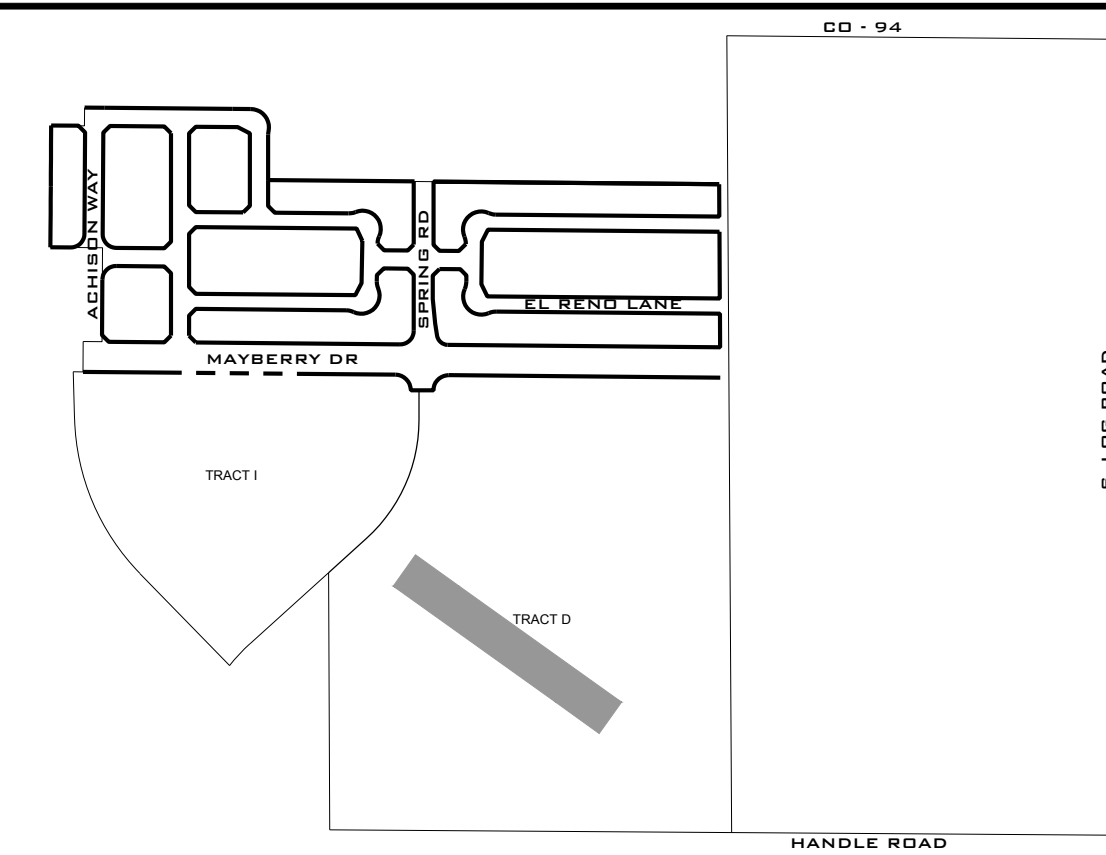
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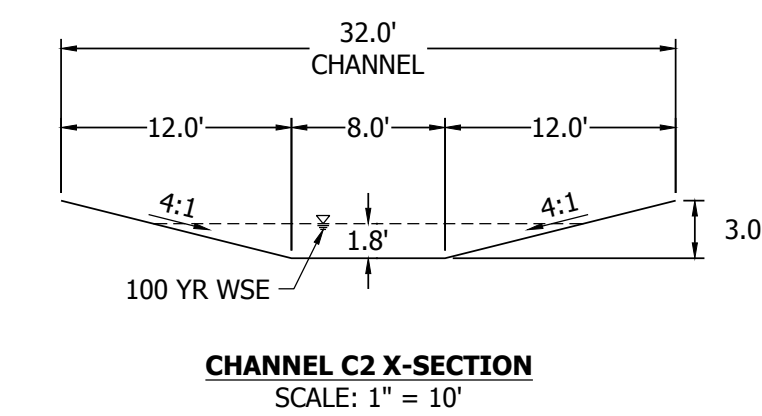
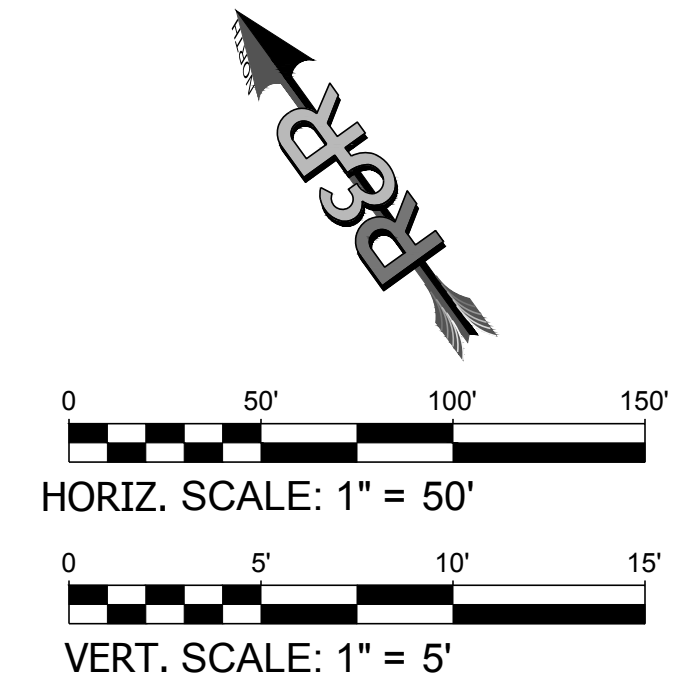
CHANNEL C2 9+00 TO 29+00
SCALE: 1" = 50'



CHANNEL C2 PROFILE VIEW
HORIZONTAL SCALE: 1"=50'
VERTICAL SCALE: 1"=5'



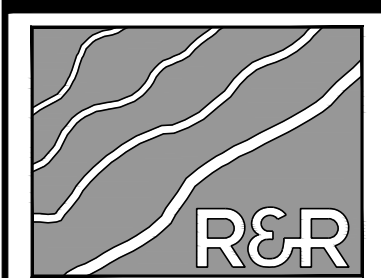
KEY MAP
N.T.S.



CHANNEL C2 X-SECTION
SCALE: 1" = 10'



NO.	REVISION	BY	DATE
	2ND SUBMISSION		09/01/22
	3RD SUBMISSION		01/17/23



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MAYBERRY PUD PH1 - FILING NO. 3
SITE ADDRESS: MAYBERRY, COLORADO SPRINGS
EL PASO COUNTY
PREPARED FOR: MAYBERRY COMMUNITIES, LLC
3296 DIVINE HEIGHTS #208
COLORADO SPRINGS, CO 80922

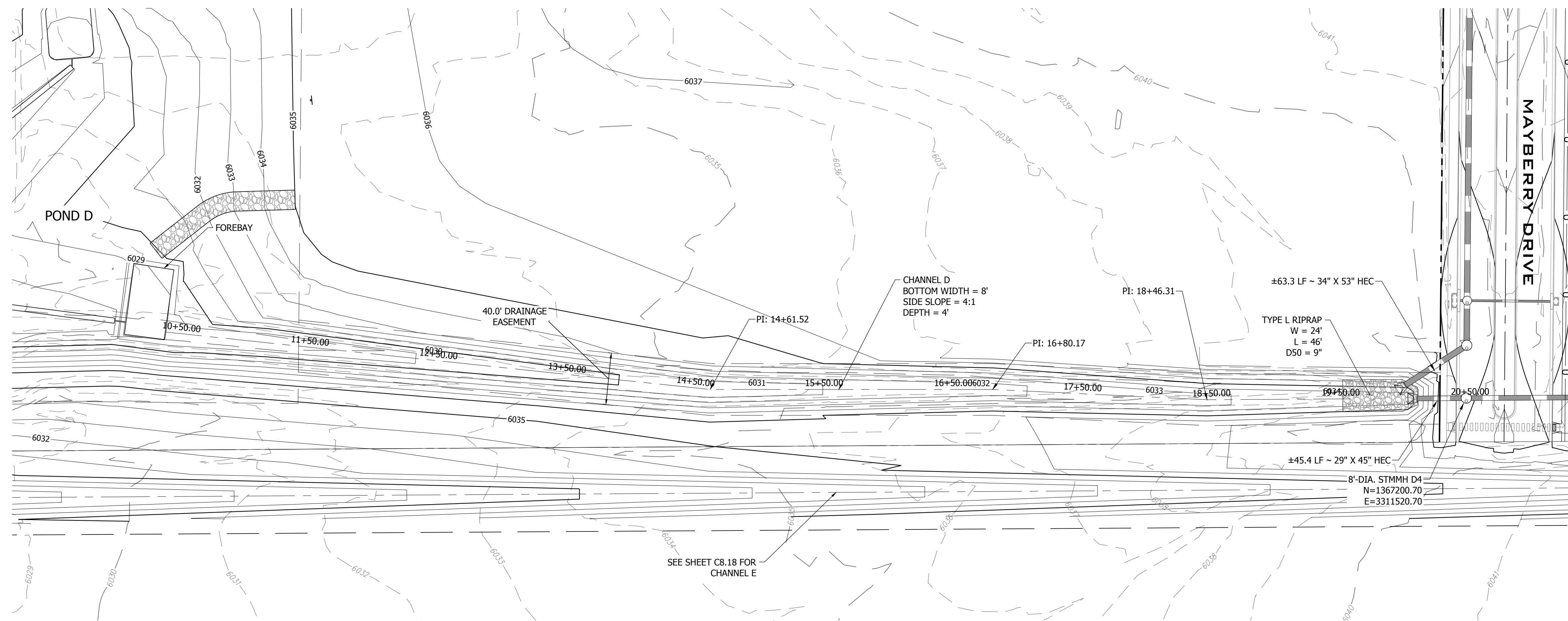
GESC PLANS
JOB NO: MC22110
ORG. SUBM. DATE: 06/16/2022
DWN: LAO CHKD: CJD

CHANNEL C2
PLAN & PROFILE
20+00 TO 29+00

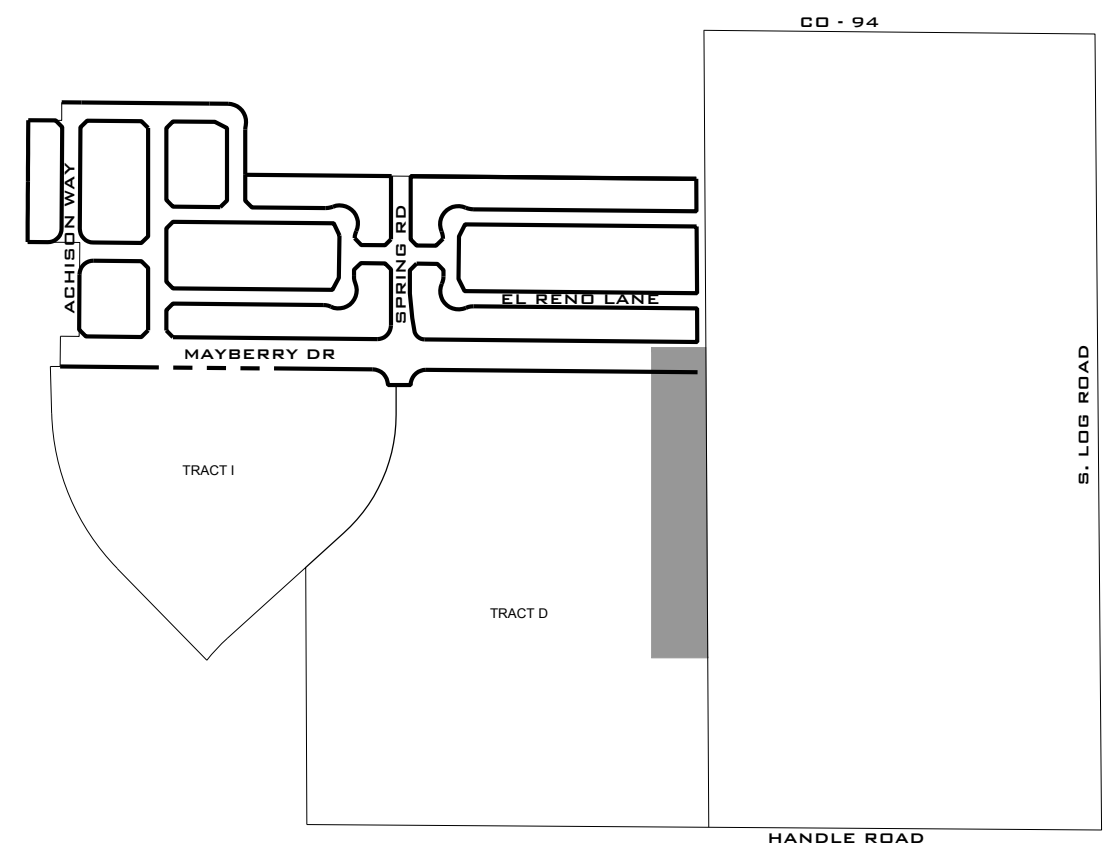
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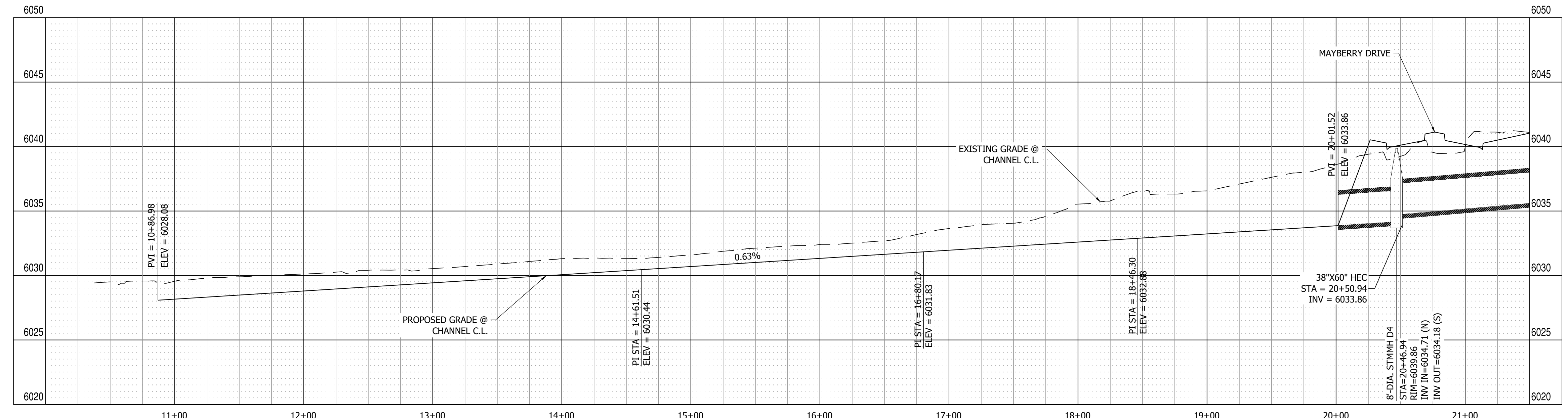
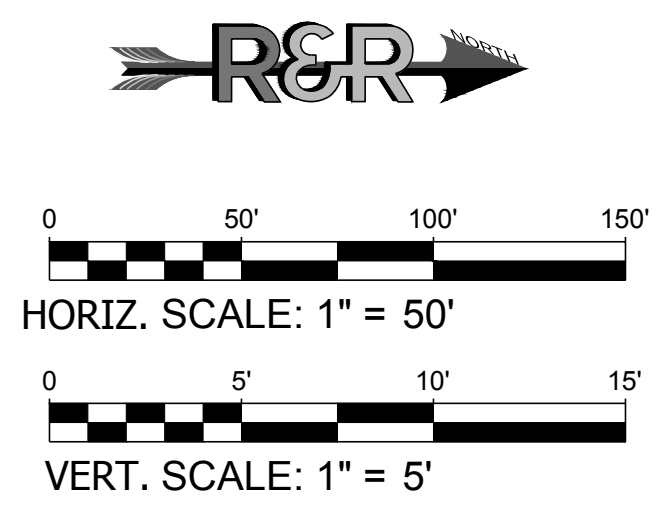
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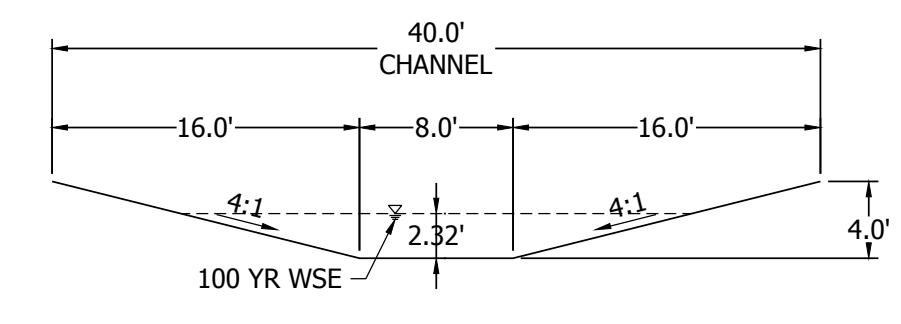
CHANNEL D
SCALE: 1" = 50'



KEY MAP
N.T.S.



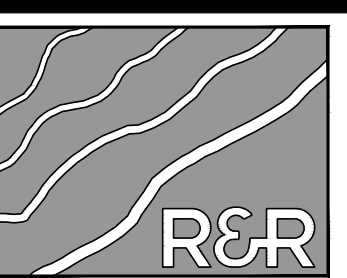
CHANNEL D PROFILE VIEW
HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 5'



CHANNEL D X-SECTION
SCALE: 1" = 10'

811
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NO.	REVISION	BY	DATE
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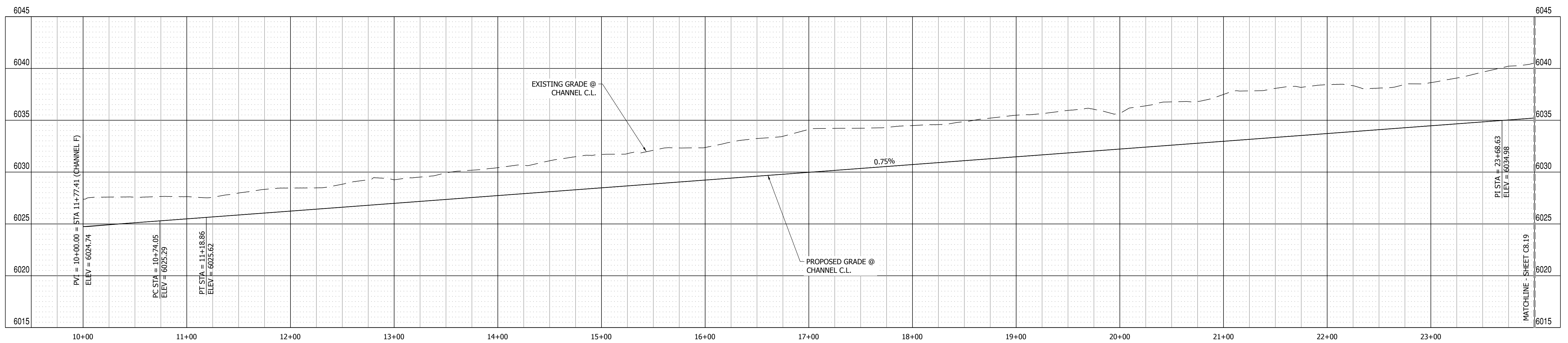
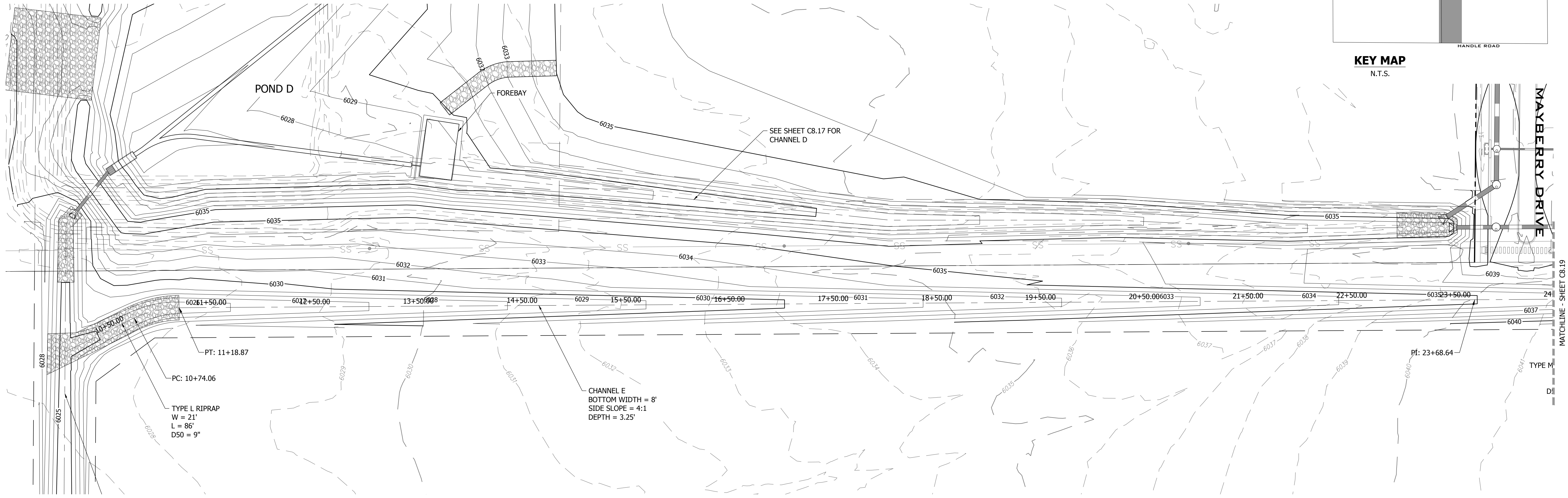
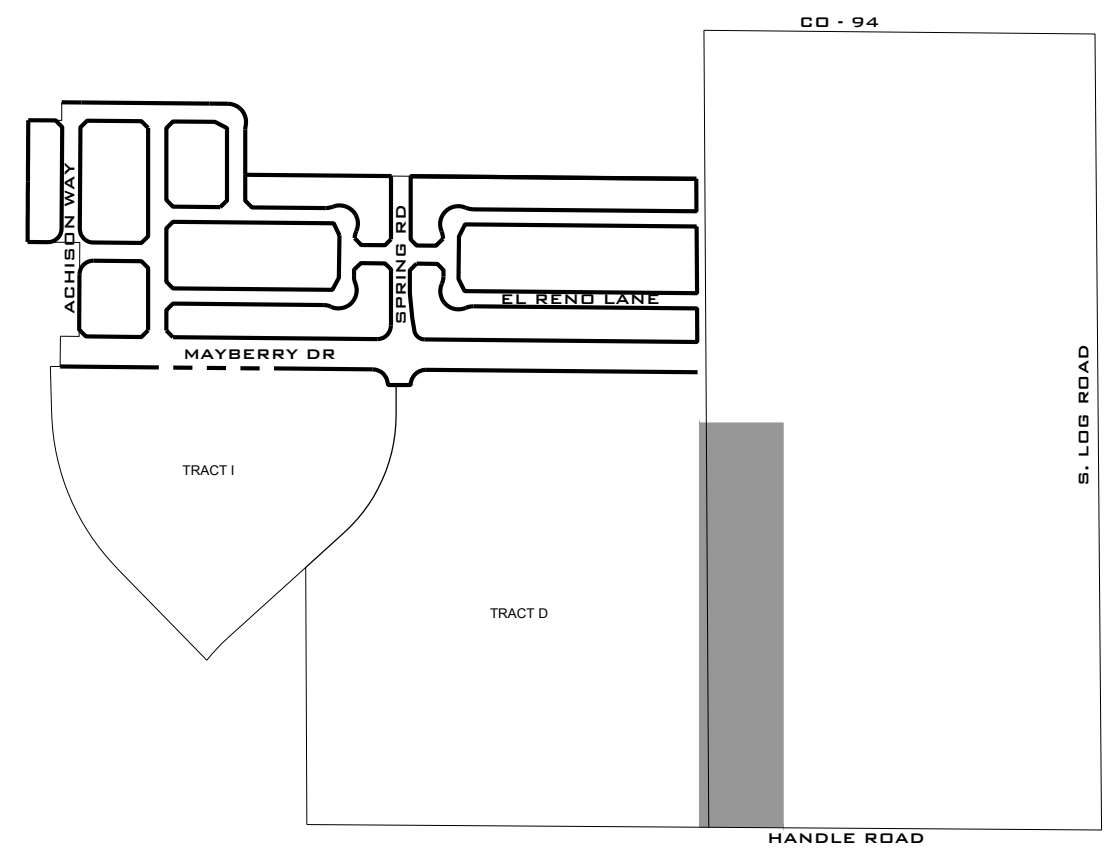
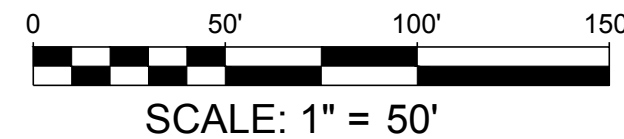
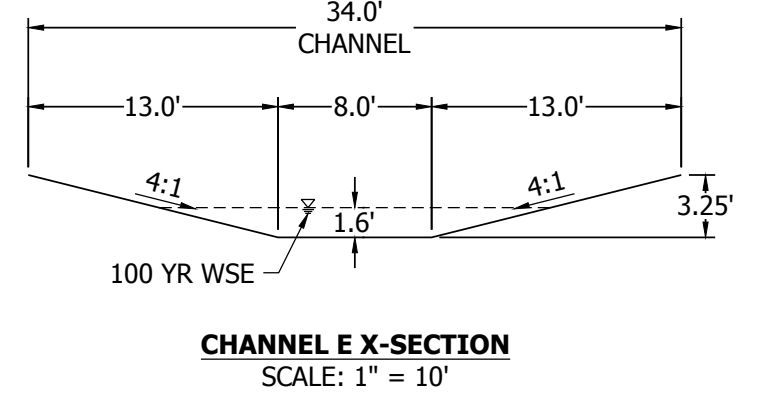
MAYBERRY PUD PH1 - FILING NO. 3
SITE ADDRESS: MAYBERRY, COLORADO SPRINGS
EL PASO COUNTY
PREPARED FOR: MAYBERRY COMMUNITIES, LLC
3296 DIVINE HEIGHTS #208
COLORADO SPRINGS, CO 80922

GESC PLANS	
JOB NO.	MC22110
ORG. SUBM. DATE	06/16/2022
DWN:	LAO
CHKD:	CJD
NAME	

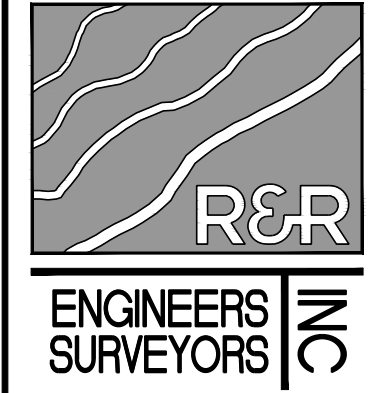
CHANNEL D PLAN & PROFILE

NO.
C8.17

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NO.	REVISION	DATE	BY
2ND SUBMISSION		09/01/22	
3RD SUBMISSION		01/17/23	



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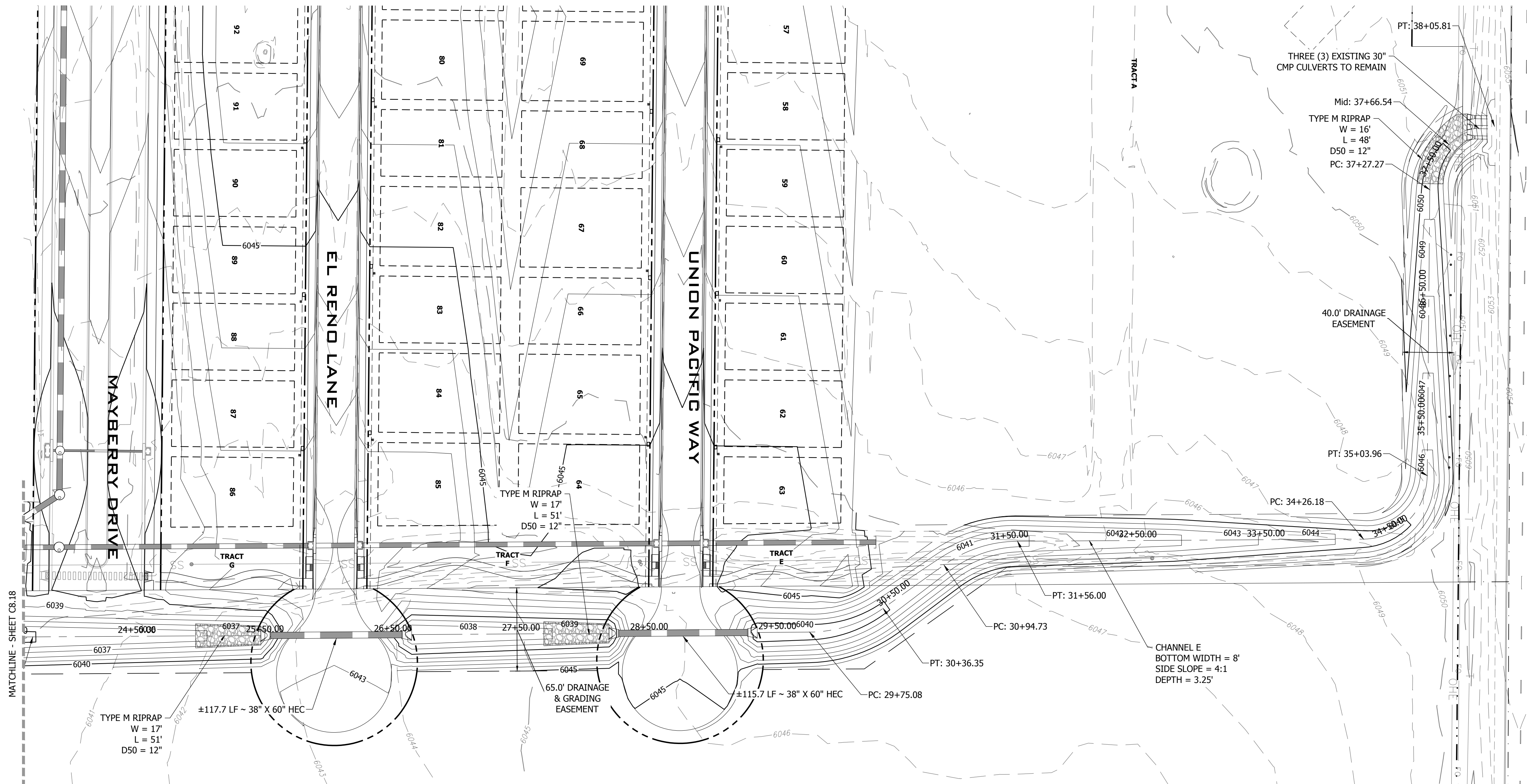
MAYBERRY PUD PH1 - FILING NO. 3
 SITE ADDRESS: MAYBERRY, COLORADO SPRINGS
 EL PASO COUNTY
 PREPARED FOR: MAYBERRY COMMUNITIES, LLC
 3296 DIVINE HEIGHTS #208
 COLORADO SPRINGS, CO 80922

GESC PLANS
 JOB NO. MC22110
 ORG. SUBM. DATE 06/16/2022
 DWN: LAO CHKD: CJJD
 NAME:

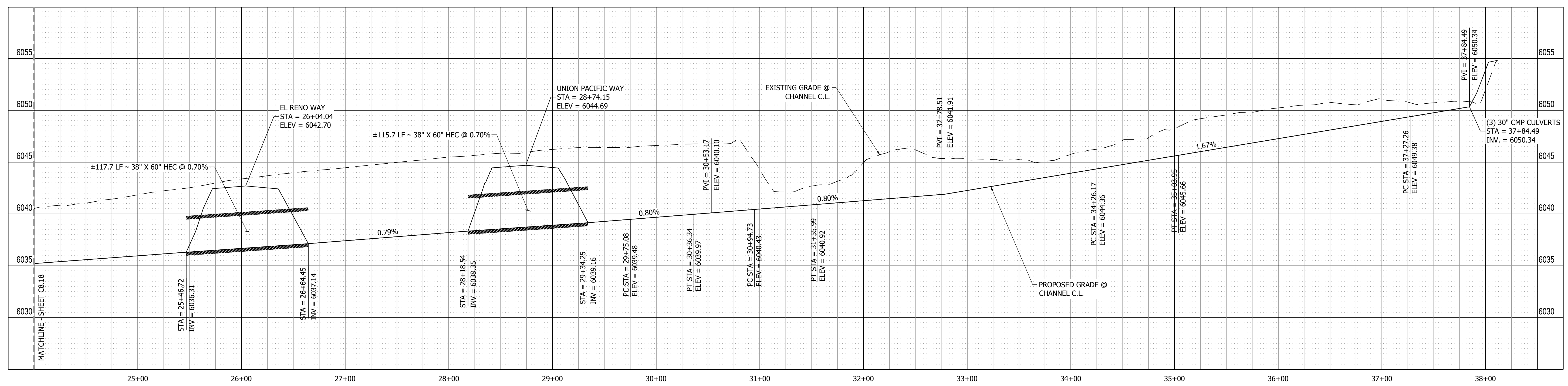
CHANNEL E 9+50 TO 24+00

NO. C8.18

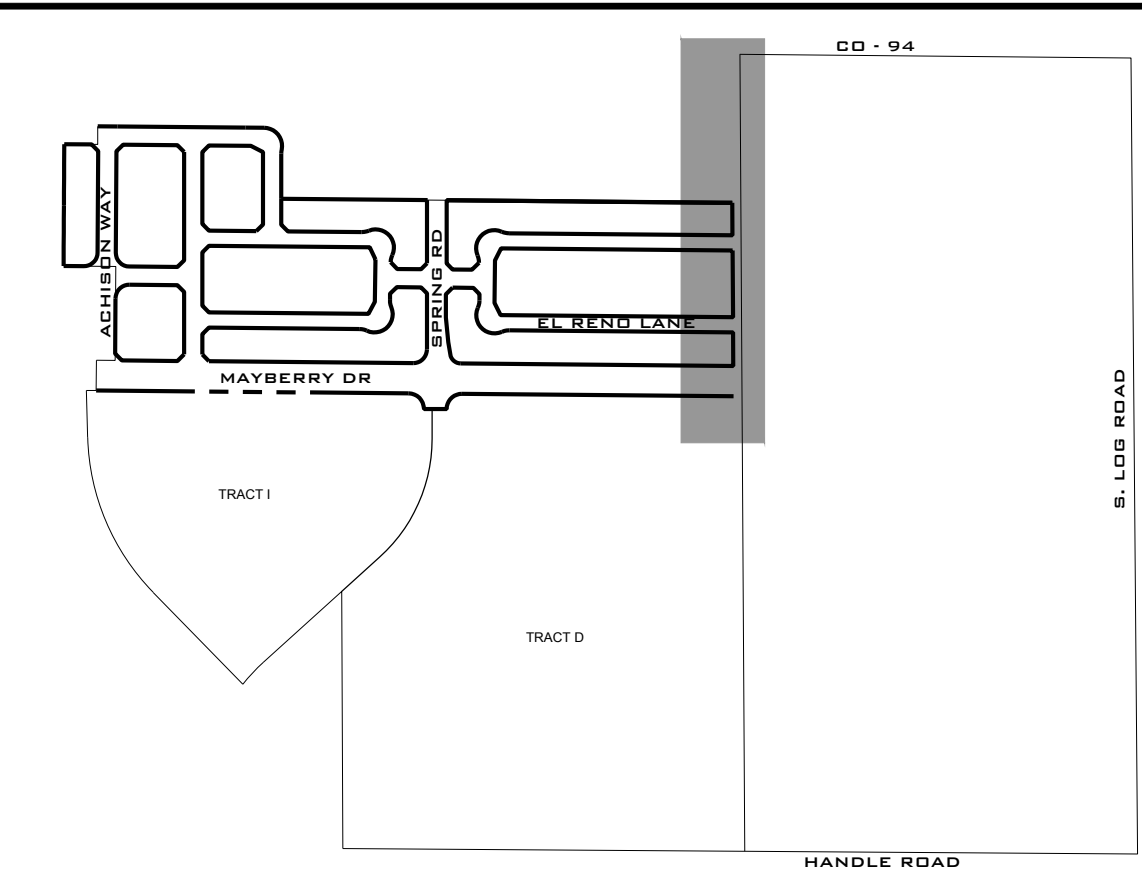
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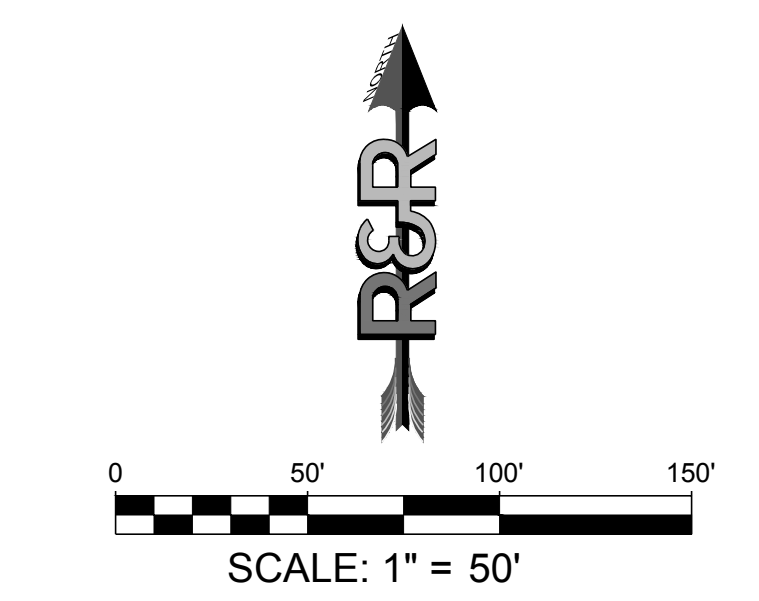
CHANNEL E STA. 24+00.00 TO 38+50.00
SCALE: 1" = 50'



CHANNEL E PROFILE VIEW
HORIZONTAL SCALE: 1"=50'
VERTICAL SCALE: 1"=5'



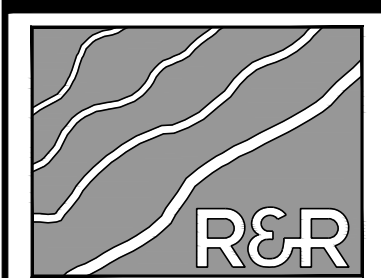
KEY MAP
N.T.S.



CHANNEL E X-SECTION
SCALE: 1" = 10'

811
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NO.	REVISION	DATE
2ND SUBMISSION		09/01/22
3RD SUBMISSION		01/17/23



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DENVER, COLORADO 80204
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SITE ADDRESS: MAYBERRY, COLORADO SPRINGS
EL PASO COUNTY

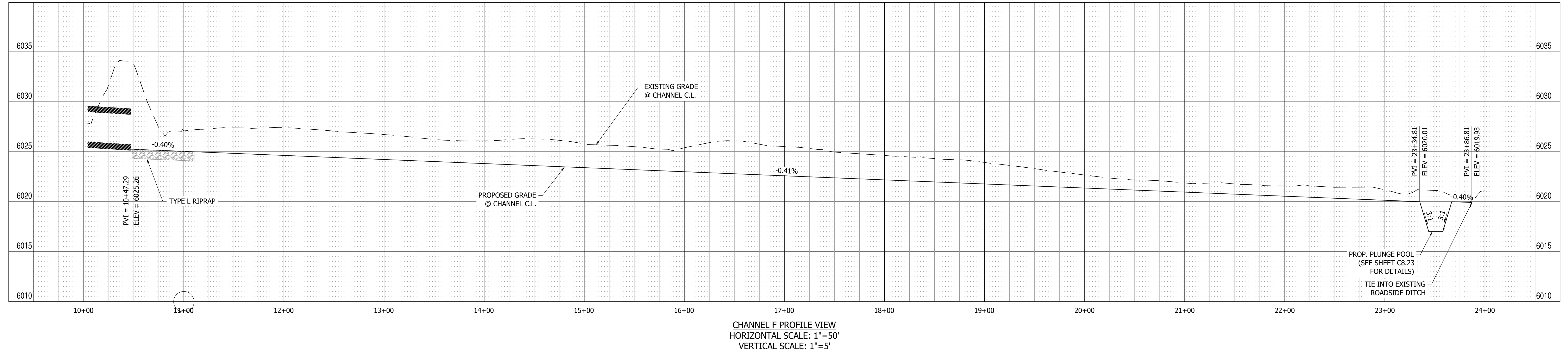
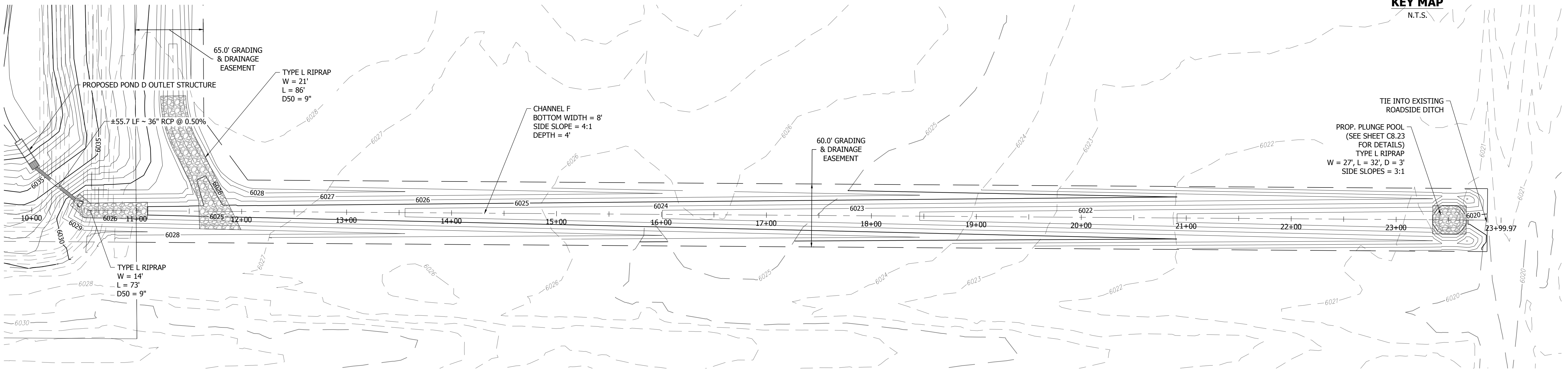
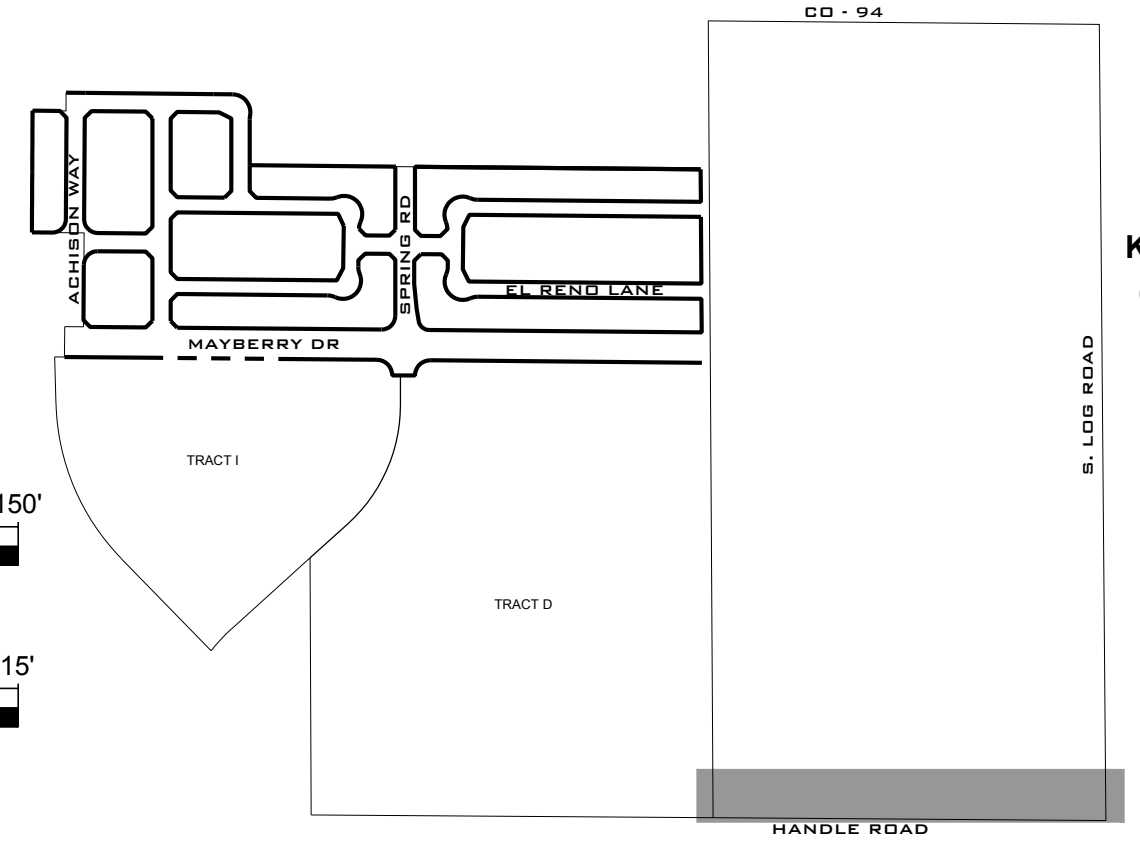
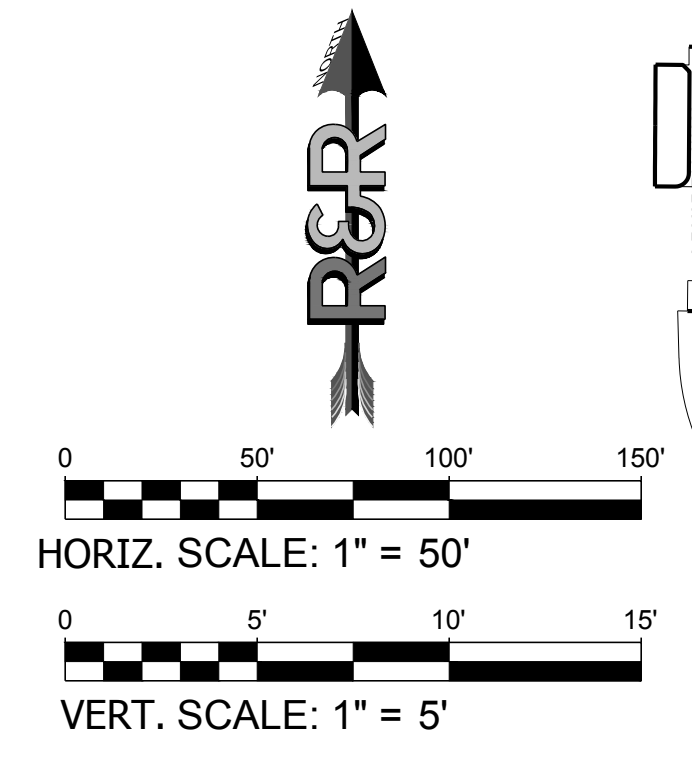
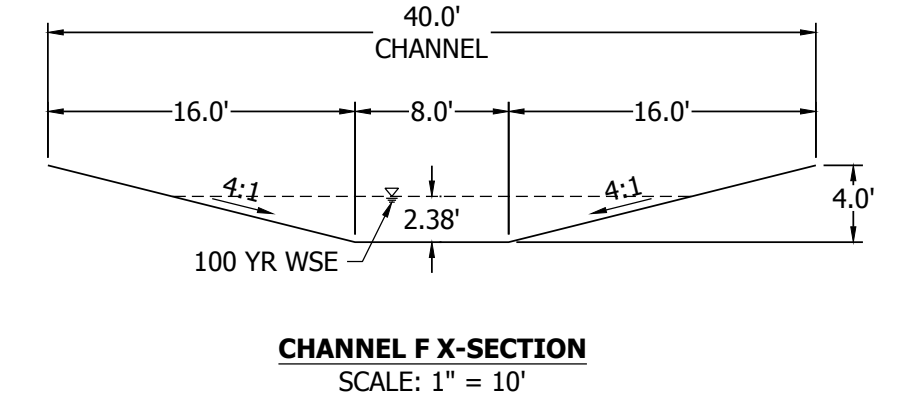
PREPARED FOR: MAYBERRY COMMUNITIES, LLC
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COLORADO SPRINGS, CO 80922

GESC PLANS
JOB NO. MC22110
ORG. SUBM. DATE 06/16/2022
DWN: LAO CHKD: CJJ
NAME

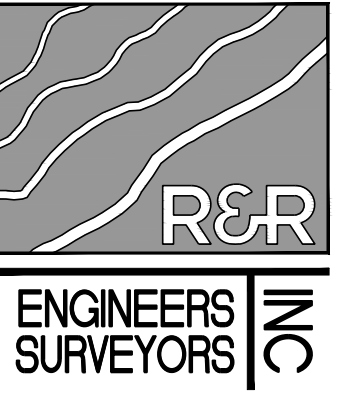
CHANNEL E 24+00 TO 38+50

NO. **C8.19**

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NO.	REVISION	BY	DATE
2ND SUBMISSION			09/01/22
3RD SUBMISSION			01/17/23



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MAYBERRY PUD PH1 - FILING NO. 3
 SITE ADDRESS: MAYBERRY, COLORADO SPRINGS
 EL PASO COUNTY
 PREPARED FOR: MAYBERRY COMMUNITIES, LLC
 3296 DIVINE HEIGHTS #208
 COLORADO SPRINGS, CO 80922

GESC PLANS	
JOB NO.	MC22110
ORG. SUBM. DATE	06/16/2022
DWN:	LAO
CHKD:	CJD
NAME	

CHANNEL F PLAN & PROFILE

NO. **C8.20**



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NO.	REVISION	BY	DATE
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	3RD SUBMISSION		01/17/23



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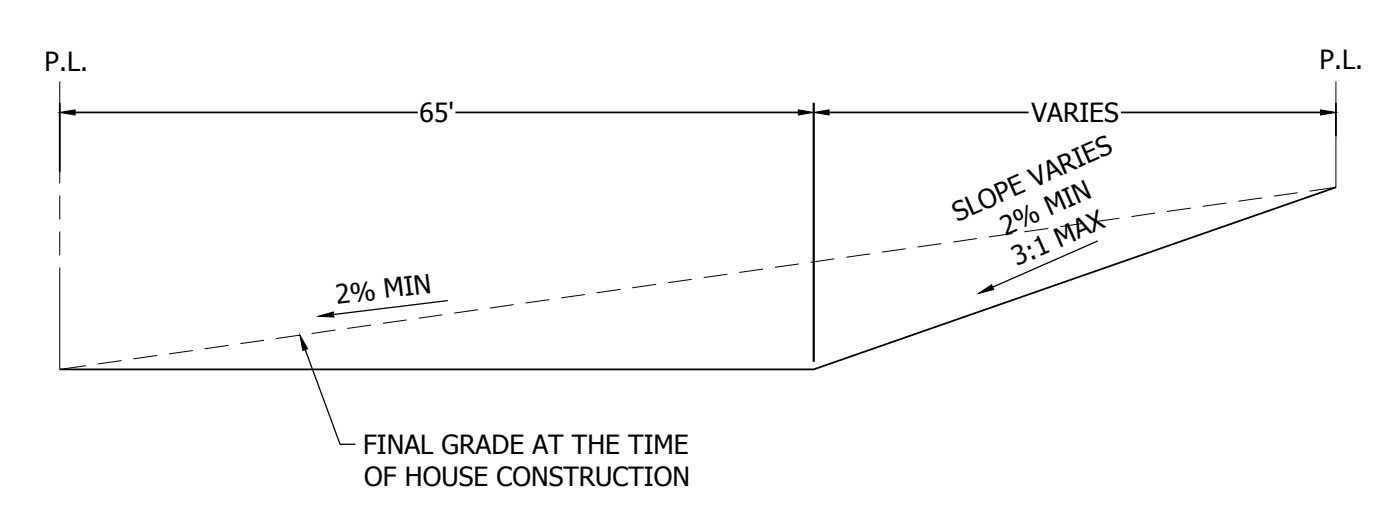
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SITE ADDRESS: MAYBERRY, COLORADO SPRINGS
EL PASO COUNTY
PREPARED FOR: MAYBERRY COMMUNITIES, LLC
3296 DIVINE HEIGHTS #208
COLORADO SPRINGS, CO 80922

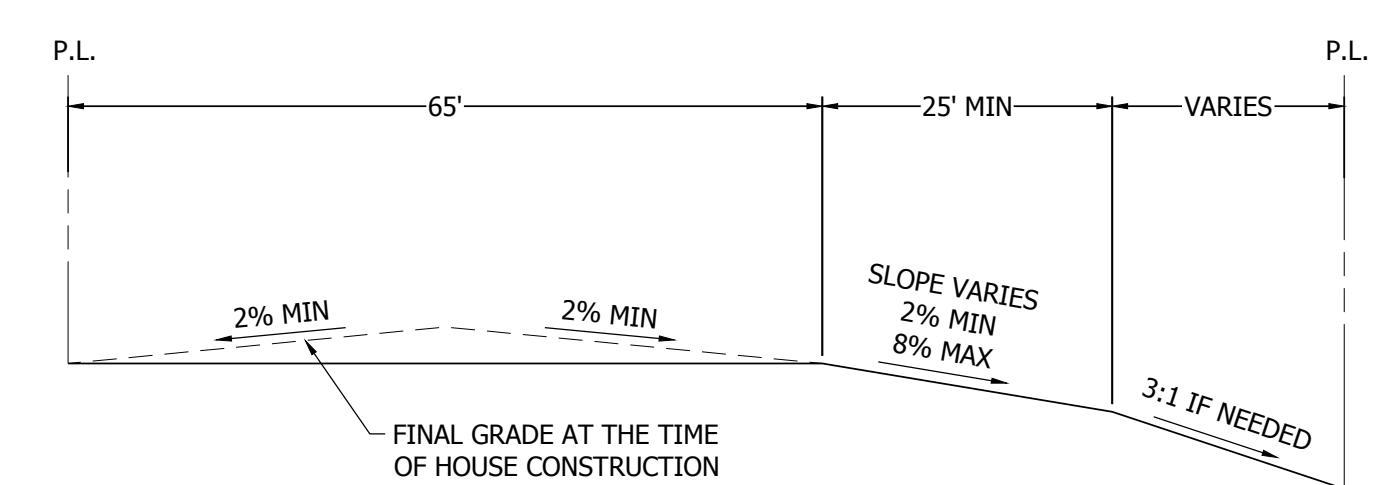
GESC PLANS	
JOB NO.	MC22110
ORG. SUBM. DATE	06/16/2022
DWN:	LAO
CHKD:	CJD

LOT GRADING
DETAILS

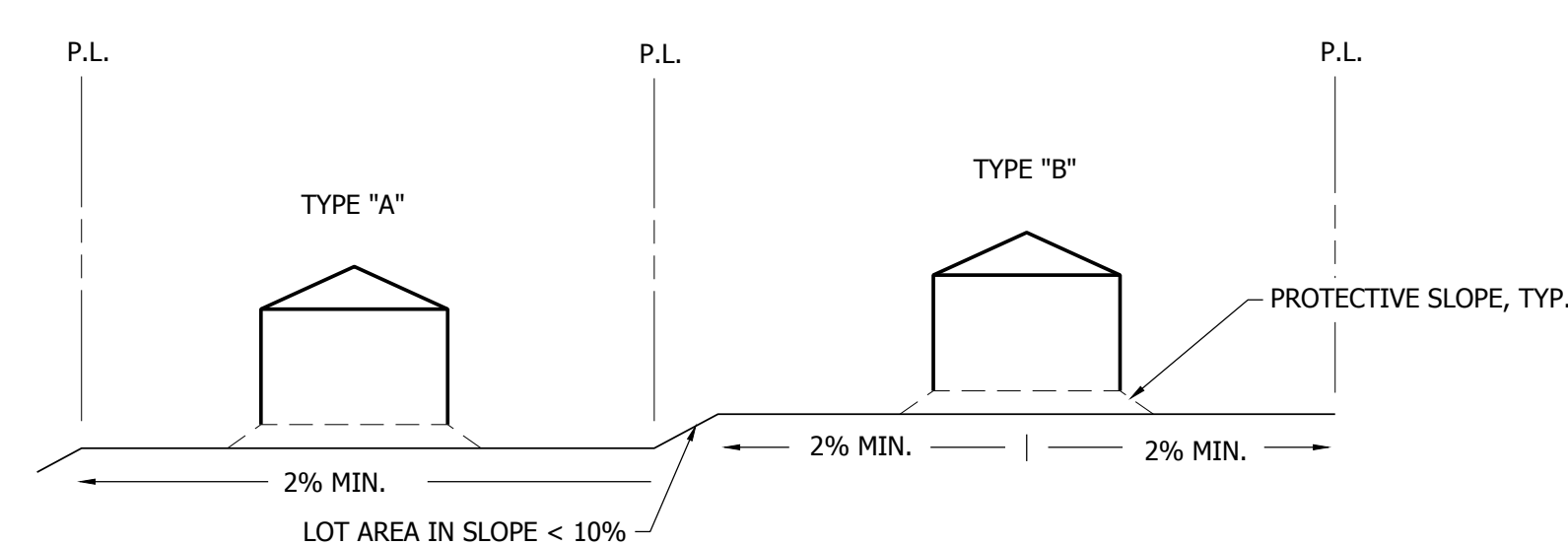
NO.
C8.21



TYPICAL "A" LOT
N.T.S.

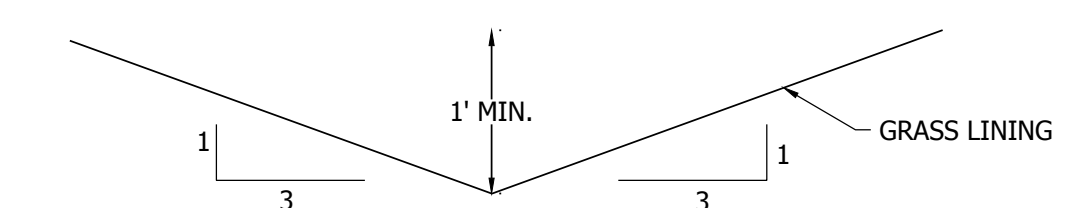


TYPICAL "B" LOT
N.T.S.



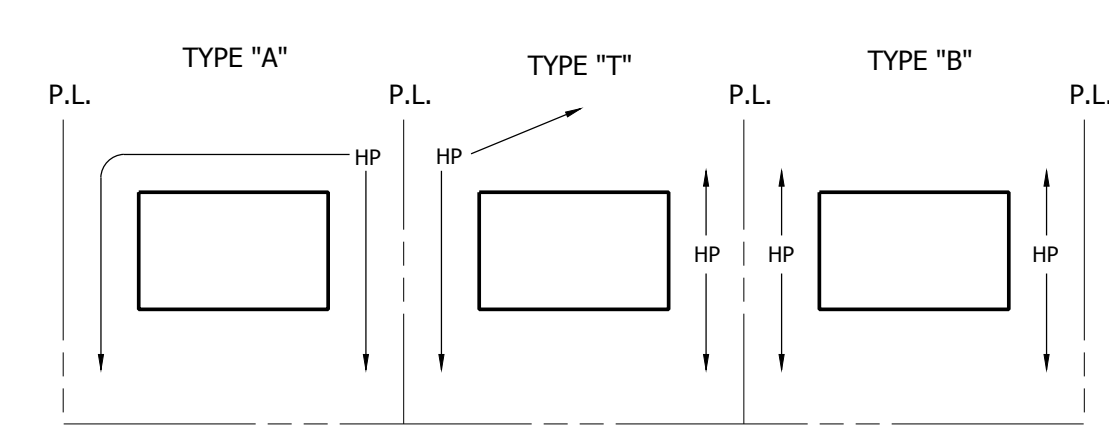
TYPICAL LOT SECTION DETAIL
N.T.S.

NOTE:
FINAL GRADING TO COMPLY WITH H.U.D.
STANDARDS CONTAINED IN SECTION 310 AND
602 OF THE MINIMUM PROPERTY STANDARDS
(MPS) 4900.1, HANDBOOK 4140.3 CHG (DATA
SHEET 79G), IF APPLICABLE, AND ALL LEGAL
STANDARDS.

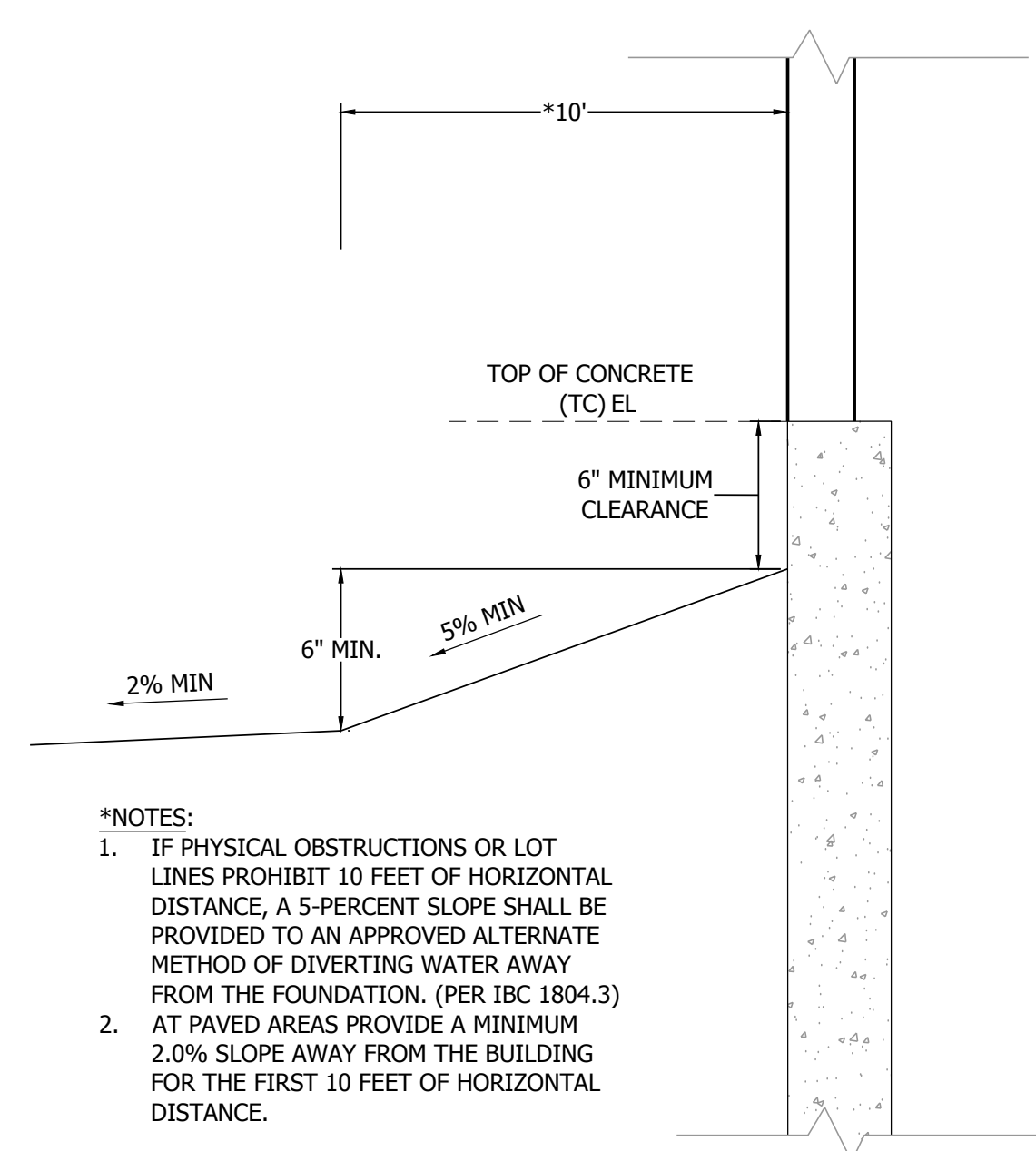


TYPICAL SIDE/REAR LOT SWALE
N.T.S.

NOTE:
BUILDERS AND OWNERS SHALL MAINTAIN
PROPER PROTECTIVE SLOPES AND SIDE/REAR
LOT SWALES DURING AND AFTER HOME
CONSTRUCTION.



LOT DRAINAGE TYPES
N.T.S.



TYPICAL BUILDING DRAINAGE DETAIL
N.T.S.

*NOTES:
1. IF PHYSICAL OBSTRUCTIONS OR LOT
LINES PROHIBIT 10 FEET OF HORIZONTAL
DISTANCE, A 5-PERCENT SLOPE SHALL BE
PROVIDED TO AN APPROVED ALTERNATE
METHOD OF DIVERTING WATER AWAY
FROM THE FOUNDATION. (PER IBC 1804.3)
2. AT PAVED AREAS PROVIDE A MINIMUM
2.0% SLOPE AWAY FROM THE BUILDING
FOR THE FIRST 10 FEET OF HORIZONTAL
DISTANCE.

NOTES:
1. LOT GRADING & DRAINAGE IS THE RESPONSIBILITY OF THE INDIVIDUAL LOT BUILDERS AND OWNERS
2. INDIVIDUAL BUILDERS SHALL PROVIDE POSITIVE DRAINAGE WITHIN EACH LOT AND ACCOUNT FOR POTENTIAL CROSS-LOT DRAINAGE ON DOWN GRADIENT LOTS.
3. FINAL GRADING TO COMPLY WITH H.U.D. STANDARDS CONTAINED IN SECTION 310 AND 602 OF THE MINIMUM PROPERTY STANDARDS (MPS) 4900.1, HANDBOOK 4140.3 CHG (DATA SHEET 79G), IF APPLICABLE AND ALL LEGAL STANDARDS.

PATH:\P_V022110_MAYBERRY_FILING_NO_3\ENGINEERING\DRAWINGS\PLANS\GDS - GESC - LOT GRADING DETAILS.DWG - PLOT DATE: 1/12/2023 12:12:35 PM BY: LNN, CORDAY

DATE	09/01/22
BY	01/17/23
REVISION	
NO.	
2ND SUBMISSION	
3RD SUBMISSION	



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MAYBERRY PUD PH1 - FILING NO. 3
MAYBERRY, COLORADO SPRINGS
EL PASO COUNTY
MAYBERRY COMMUNITIES, LLC
3296 DIVINE HEIGHTS #208
COLORADO SPRINGS, CO 80922

JOB NO.	MC22110
ORG. SUBM. DATE	06/16/2022
DWN:	LAO
CHKD:	CJD
NAME	

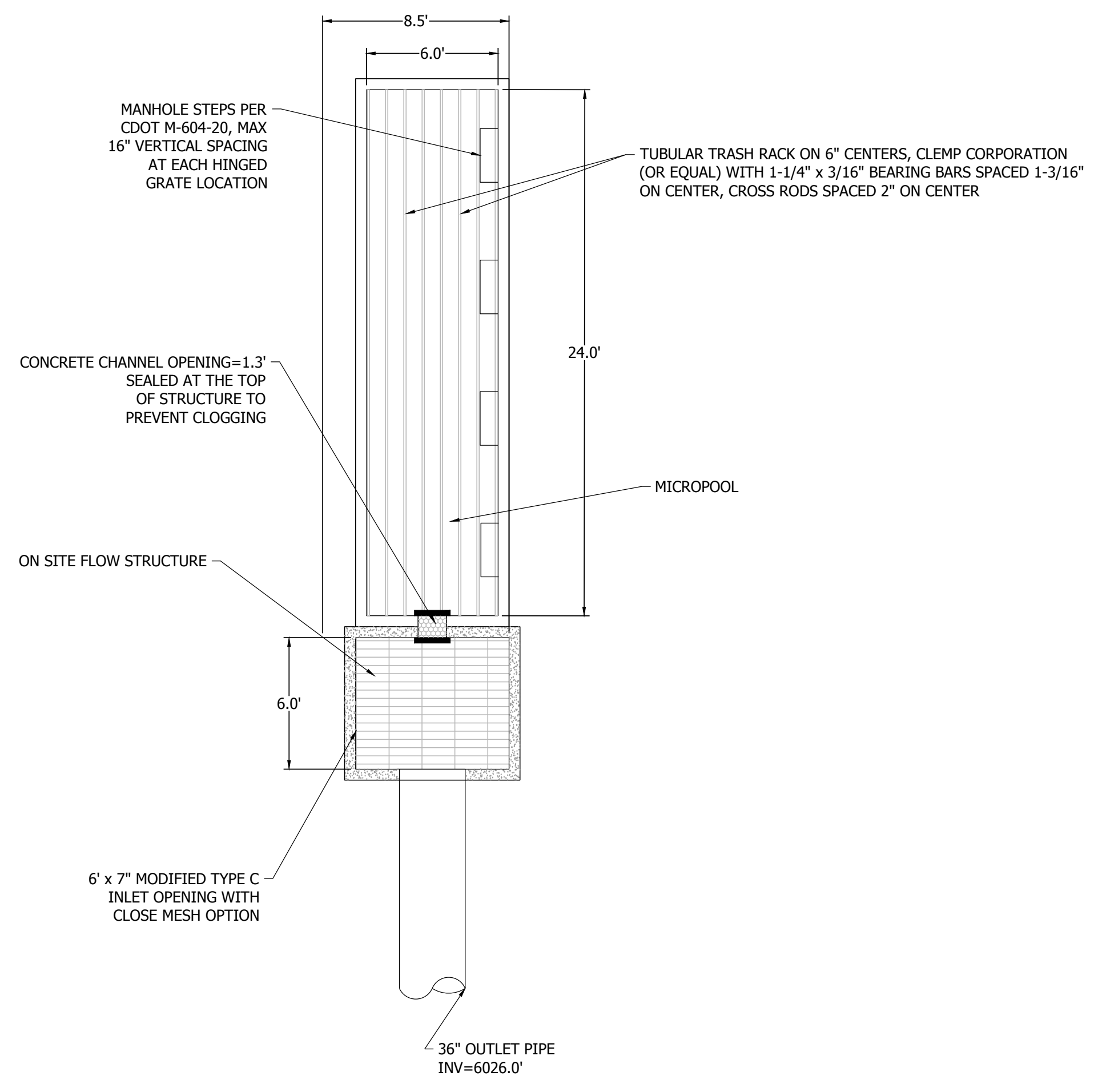
DETENTION POND DETAILS

NO. C8.22

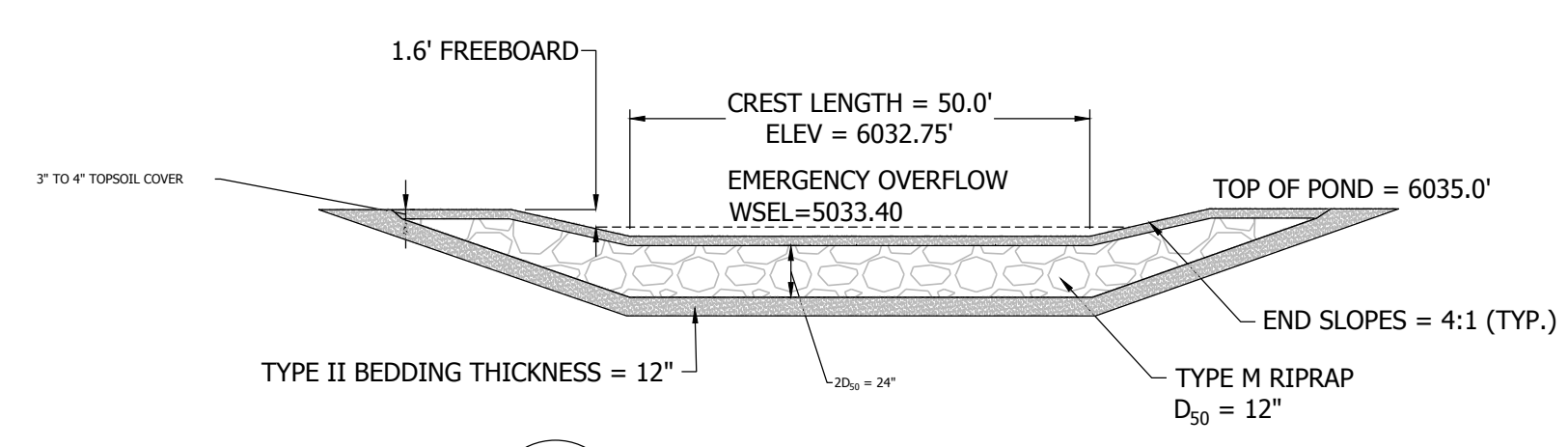
DETENTION POND FOUNDATION PREPARATION AND EMBANKMENT CONSTRUCTION (PER CTL THOMPSON LETTER DATED 8/31/22)
PRIOR TO PLACEMENT OF EMBANKMENT FILL, THE EXISTING GROUND SURFACE SHOULD BE SCARIFIED, MOISTURE CONDITIONED, AND RECOMPACTED. EMBANKMENT FILL MAY CONSIST OF ONSITE MATERIALS PROVIDED THEY ARE SUBSTANTIALLY FREE OF DEBRIS, VEGETATION/ORGANICS, DELETERIOUS MATERIALS, AND MATERIAL GREATER THAN 3-INCHES. FILL SHOULD BE PLACED IN THIN, LOOSE LIFTS NO MORE THAN 8-INCHES, MOISTURE CONDITIONED AND COMPACTED PRIOR TO PLACEMENT OF THE NEXT LIFT. FILL SHOULD BE COMPACTED ACCORDING TO TABLE A. THE PLACEMENT AND COMPACTION OF NEW FILL SHOULD BE OBSERVED, AND THE DENSITY TESTED BY OUR REPRESENTATIVE DURING CONSTRUCTION. WE RECOMMEND EMBANKMENT SLOPES BE OVERBUILT AT LEAST 12-INCHES AND CUT BACK DUE TO THE INHERENT DIFFICULTY OF ACHIEVING COMPACTION AT THE EDGE OF A SLOPE.

Table A - Compaction Specifications

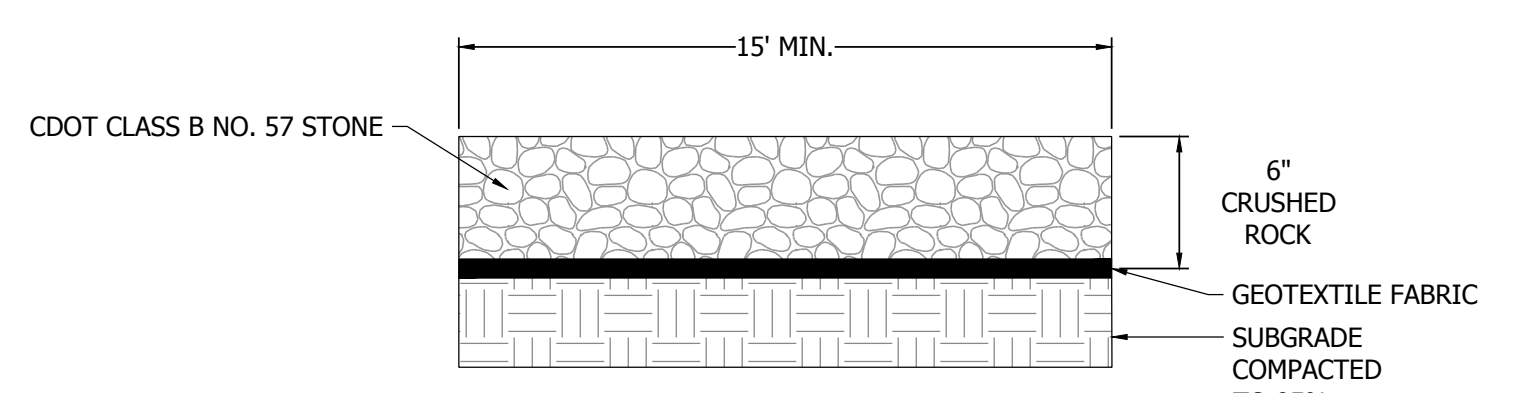
Soil Type	Minimum Compaction	Moisture Content From Optimum
Clay	95% ASTM D698	-2 to +2
Sand	95% ASTM D1557	-2 to +2



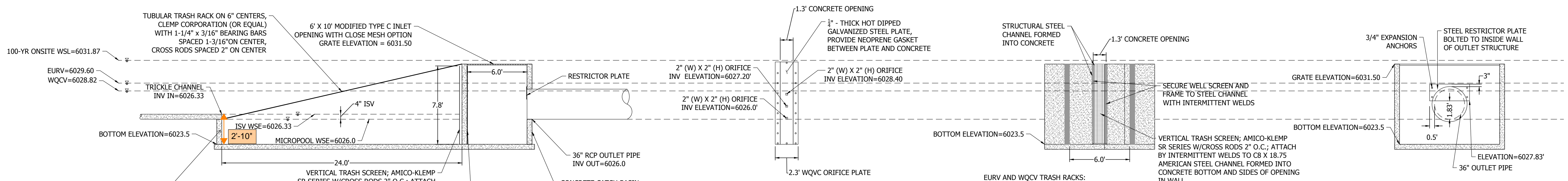
PLAN VIEW
DETENTION POND OUTLET STRUCTURE PLAN
N.T.S.



EMERGENCY SPILLWAY DETAIL
N.T.S.



POND ACCESS PATH DETAIL
N.T.S.



DETENTION POND OUTLET STRUCTURE SECTION
N.T.S.

- ORIFACE PLATE NOTES:**
1. MINIMIZE THE NUMBER OF COLUMNS.
 2. PROVIDE GASKET MATERIAL BETWEEN THE ORIFACE PLATE AND CONCRETE.
 3. BOLT PLATE TO CONCRETE 12" MAX. ON CENTER.

ORIFACE PLATE DETAIL
N.T.S.

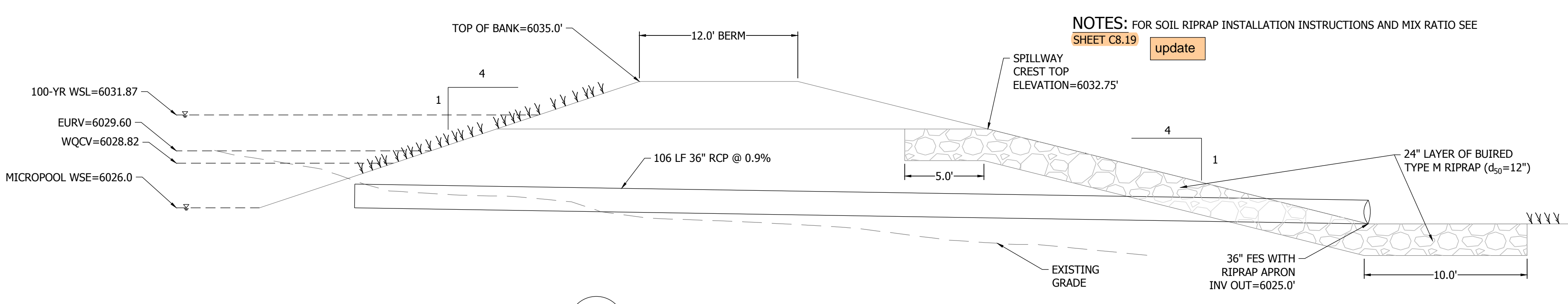
- EURV AND WQCV TRASH RACKS:**
1. WELL-SCREEN TRASH RACKS SHALL BE ATTACHED BY INTERMITTENT WELDS ALONG THE EDGE OF THE MOUNTING FRAME.
 2. STRUCTURAL DESIGN OF TRASH RACKS SHALL BE BASED ON FULL HYDROSTATIC HEAD WITH ZERO HEAD DOWNSTREAM OF THE RACK.

- OVERFLOW TRASH RACKS:**
1. ALL TRASH RACKS SHALL BE MOUNTED USING STAINLESS STEEL HARDWARE AND PROVIDED WITH HINGED AND LOCKABLE OR BOLTABLE ACCESS PANELS.
 2. TRASH RACKS SHALL BE STAINLESS STEEL, ALUMINUM, OR STEEL. STEEL TRASH RACKS SHALL BE HOT DIP GALVANIZED AND MAY BE HOT POWDER COATED AFTER GALVANIZING.
 3. TRASH RACKS SHALL BE DESIGNED SUCH THAT THE DIAGONAL DIMENSION OF THE EACH OPENING IS SMALLER THAN THE DIAMETER OF THE OUTLET PIPE.
 4. STRUCTURAL DESIGN OF TRASH RACKS SHALL BE BASED ON FULL HYDROSTATIC HEAD WITH ZERO HEAD DOWNSTREAM OF THE RACK.

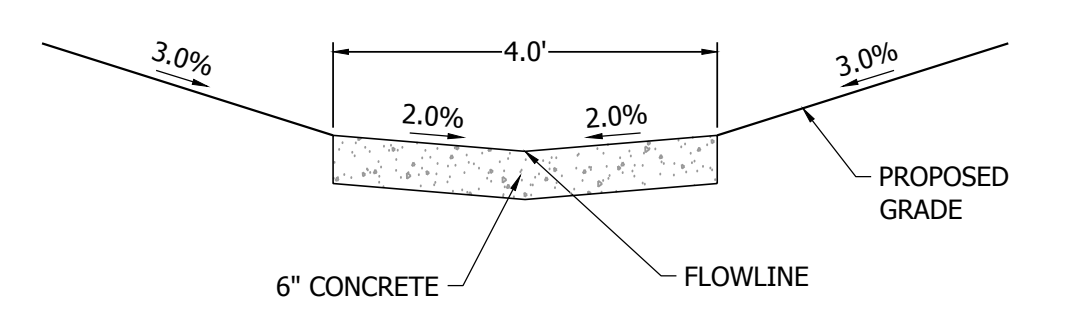
VERTICAL TRASH SCREEN DETAIL
N.T.S.

RESTRICTOR PLATE DETAIL
N.T.S.

we have seen that a lot of contractors are not including the 4" surcharge volume when constructing the micropool. To help clear up this issue, please include the overall depth of the micropool on the plans.

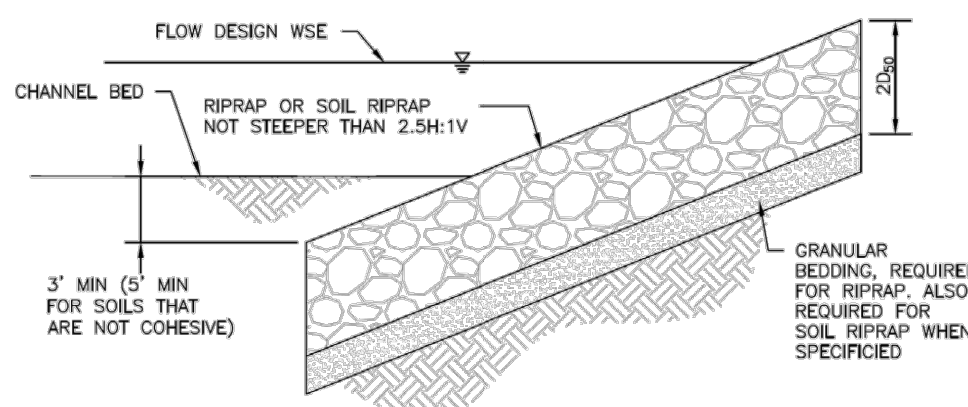


SPILLWAY SECTION
N.T.S.



TYPICAL CONCRETE TRICKLE CHANNEL
N.T.S.

NOTES: FOR SOIL RIPRAP INSTALLATION INSTRUCTIONS AND MIX RATIO SEE SHEET C8.19 update



RIPRAP DESIGNATION	% SMALLER THAN GIVEN SIZE BY WEIGHT	INTERMEDIATE ROCK DIMENSION (INCHES)	D ₅₀ * (INCHES)
TYPE VL	70 - 100	12	6
	50 - 70	9	
	35 - 50	6	
TYPE L	70 - 100	15	9
	50 - 70	12	
	35 - 50	9	
TYPE M	70 - 100	21	12
	50 - 70	18	
	35 - 50	12	
TYPE H	70 - 100	30	18
	50 - 70	24	
	35 - 50	18	
*D ₅₀ = MEAN ROCK SIZE.			

Figure 8-34. Riprap and soil riprap placement and gradation (part 1 of 3)

- SOIL RIPRAP NOTES:
- ELEVATION TOLERANCES FOR THE SOIL RIPRAP SHALL BE 0.10 FEET. THICKNESS OF SOIL RIPRAP SHALL BE NO LESS THAN THICKNESS SHOWN AND NO MORE THAN 2-INCHES GREATER THAN THE THICKNESS SHOWN.
 - WHERE "SOIL RIPRAP" IS DESIGNATED ON THE CONTRACT DRAWINGS, RIPRAP VOIDS ARE TO BE FILLED WITH NATIVE SOIL. THE RIPRAP SHALL BE PRE-MIXED WITH THE NATIVE SOIL AT THE FOLLOWING PROPORTIONS BY VOLUME: 65PERCENT RIPRAP AND 35 PERCENT SOIL. THE SOIL USED FOR MIXING SHALL BE NATIVE TOPSOIL AND SHALL HAVE A MINIMUM FINES CONTENT OF 15 PERCENT. THE SOIL RIPRAP SHALL BE INSTALLED IN A MANNER THAT RESULTS IN A DENSE, INTERLOCKED LAYER OF RIPRAP WITH RIPRAP VOIDS FILLED COMPLETELY WITH SOIL. SEGREGATION OF MATERIALS SHALL BE AVOIDED AND IN NO CASE SHALL THE COMBINED MATERIAL CONSIST PRIMARILY OF SOIL. THE DENSITY AND INTERLOCKING NATURE OF RIPRAP IN THE MIXED MATERIAL SHALL ESSENTIALLY BE THE SAME AS IF THE RIPRAP WAS PLACED WITHOUT SOIL.
 - WHERE SPECIFIED (TYPICALLY AS "BURIED SOIL RIPRAP"), A SURFACE LAYER OF TOPSOIL SHALL BE PLACED OVER THE SOIL RIPRAP ACCORDING TO THE THICKNESS SPECIFIED ON THE CONTRACT DRAWINGS. THE TOPSOIL SURFACE LAYER SHALL BE COMPACTED TO APPROXIMATELY 85% OF MAXIMUM DENSITY AND WITHIN TWO PERCENTAGE POINTS OF OPTIMUM MOISTURE IN ACCORDANCE WITH ASTM D698. TOPSOIL SHALL BE ADDED TO ANY AREAS THAT SETTLE.
 - ALL SOIL RIPRAP THAT IS BURIED WITH TOPSOIL SHALL BE REVIEWED AND APPROVED BY THE ENGINEER PRIOR TO ANY TOPSOIL PLACEMENT.

U.S. STANDARD SIEVE SIZE	GRADATION FOR GRANULAR BEDDING	
	PERCENT PASSING BY WEIGHT	
	TYPE I CDOT SECT. 703.01	TYPE II CDOT SECT. 703.09 CLASS A
3 INCHES	-	90 - 100
1 1/2 INCHES	-	-
3/4 INCHES	-	20 - 90
3/8 INCHES	100	-
#4	95 - 100	0 - 20
#16	45 - 80	-
#50	10 - 30	-
#100	2 - 10	-
#200	0 - 2	0 - 3

RIPRAP BEDDING

Figure 8-34. Riprap and soil riprap placement and gradation (part 2 of 3)

RIPRAP DESIGNATION	THICKNESS REQUIREMENTS FOR GRANULAR BEDDING		
	MINIMUM BEDDING THICKNESS (INCHES)		
	FINE-GRAINED SOILS ¹	TYPE II (UPPER LAYER)	COARSE-GRAINED SOILS ²
VL (D ₅₀ = 6 IN)	4	4	6
L (D ₅₀ = 9 IN)	4	4	6
M (D ₅₀ = 12 IN)	4	4	6
H (D ₅₀ = 18 IN)	4	6	8
VH (D ₅₀ = 24 IN)	4	6	8

- NOTES:
- MAY SUBSTITUTE ONE 12-INCH LAYER OF TYPE II BEDDING. THE SUBSTITUTION OF ONE LAYER OF TYPE II BEDDING SHALL NOT BE PERMITTED AT DROP STRUCTURES. THE USE OF A COMBINATION OF FILTER FABRIC AND TYPE II BEDDING AT DROP STRUCTURES IS ACCEPTABLE.
 - FIFTY PERCENT OR MORE BY WEIGHT RETAINED ON THE #40 SIEVE.

Figure 8-34. Riprap and soil riprap placement and gradation (part 3 of 3)

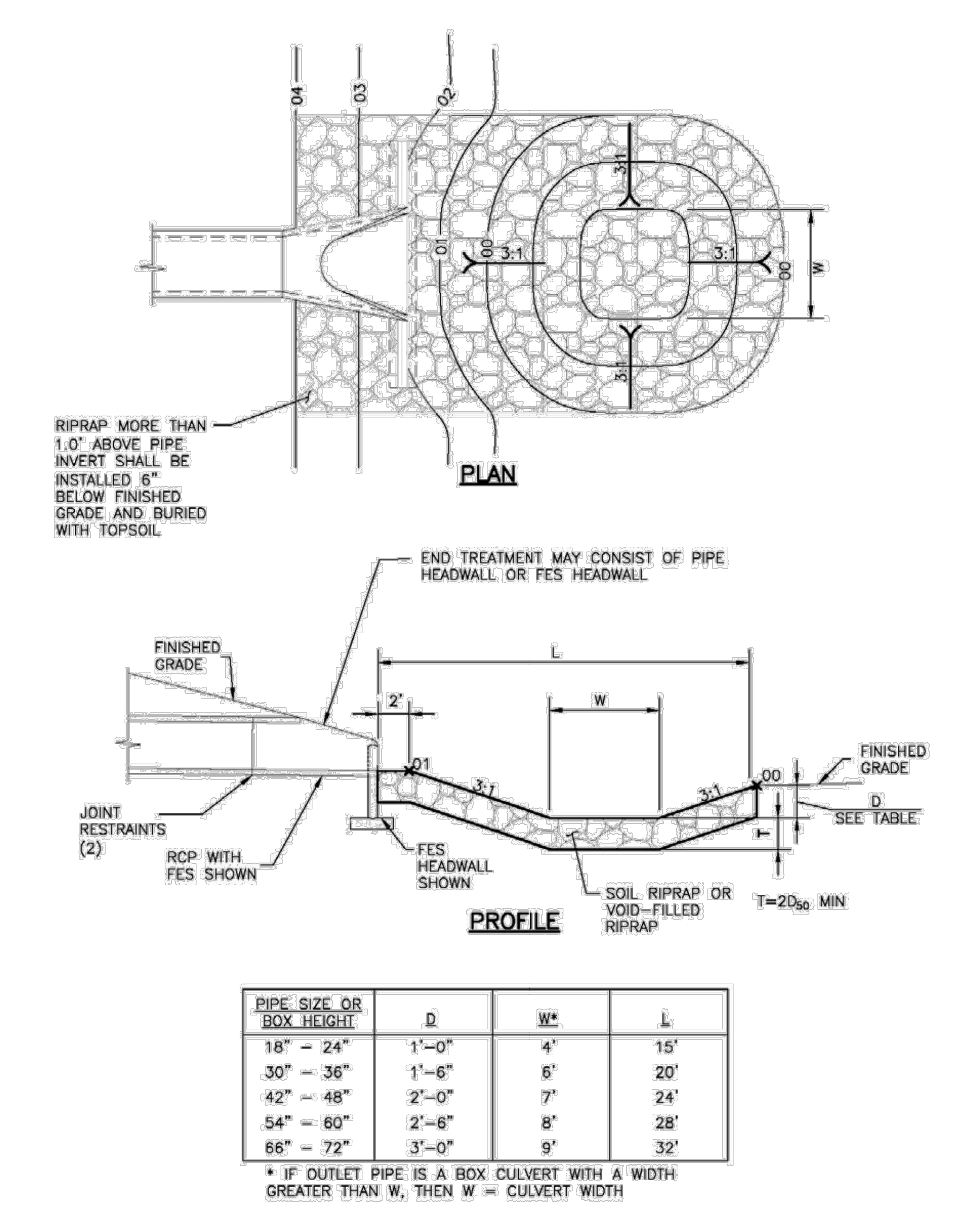
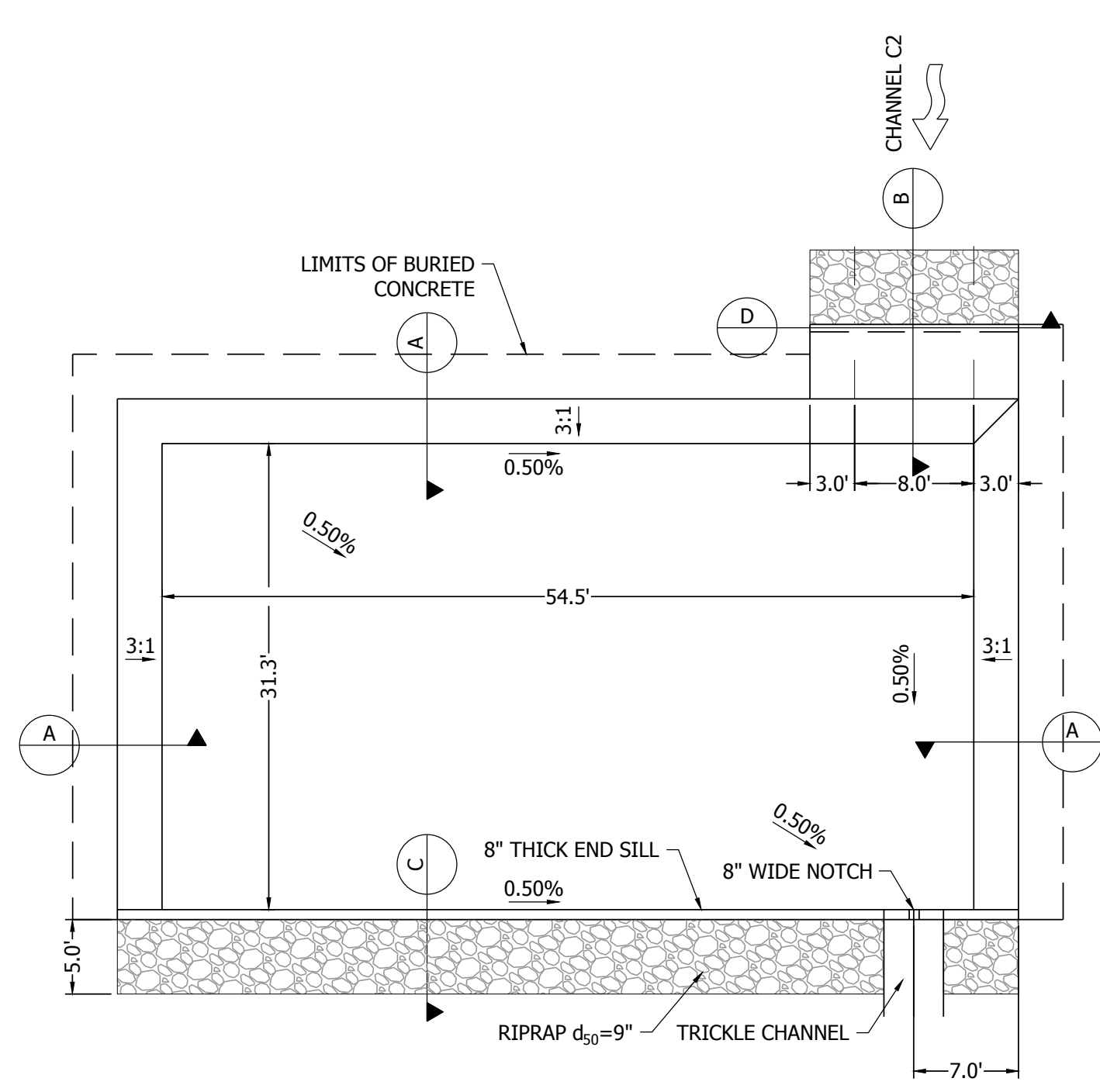
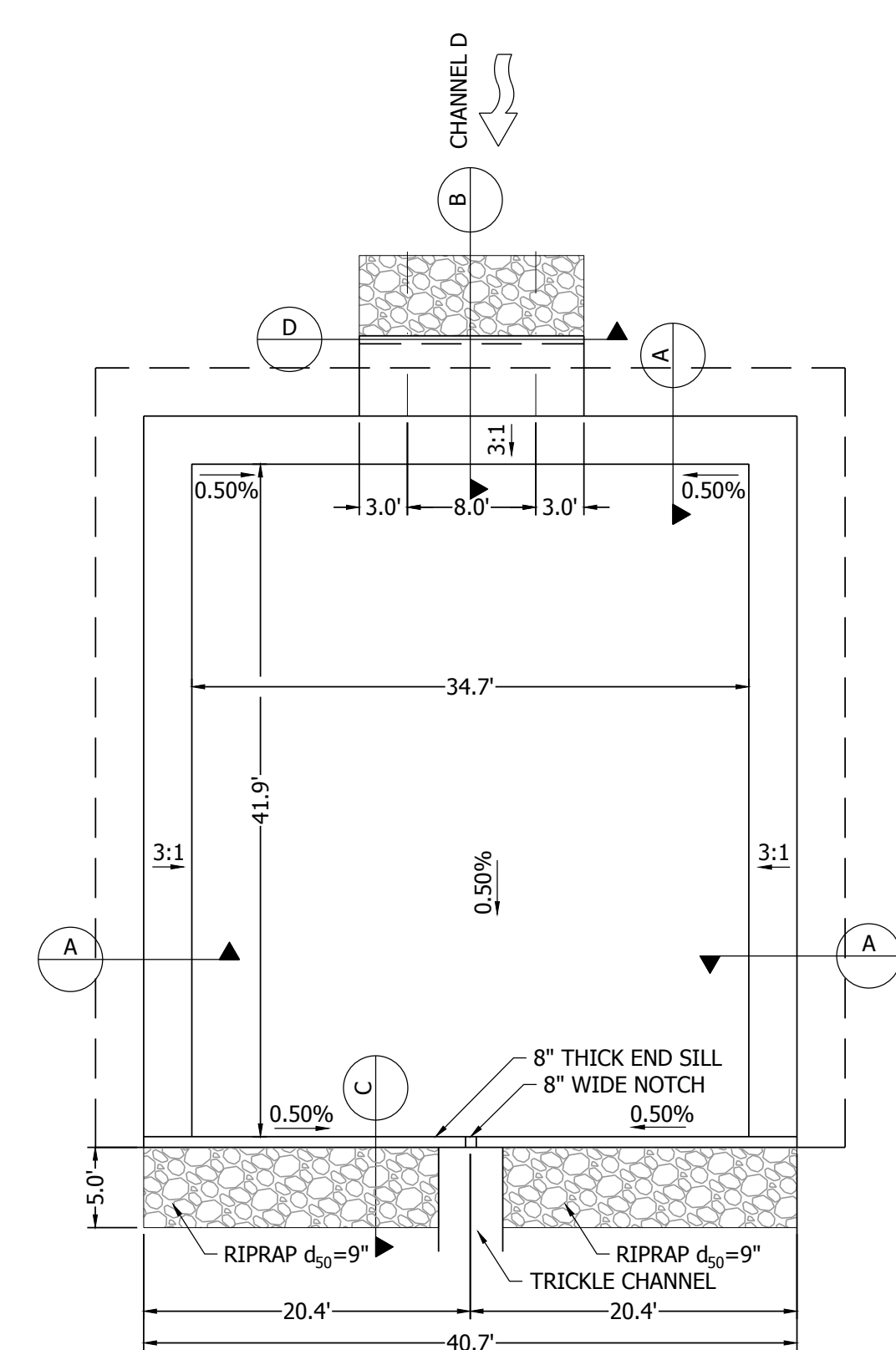


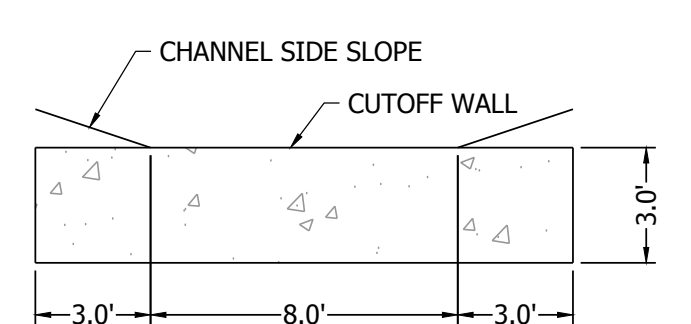
Figure 9-37. Low tailwater riprap basin



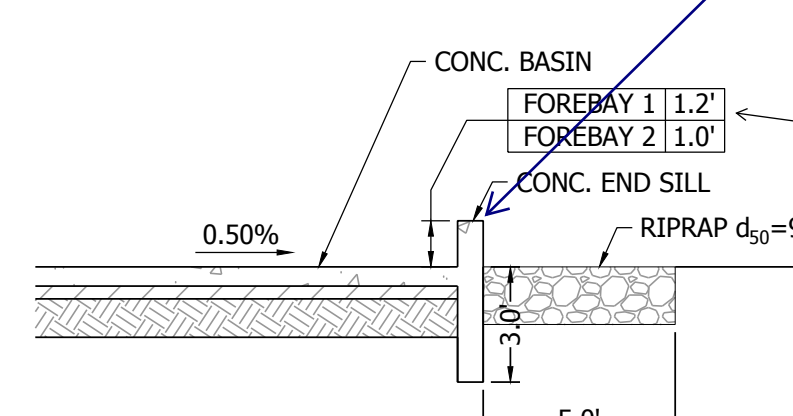
FOREBAY 1 PLAN SCALE 1" = 10'



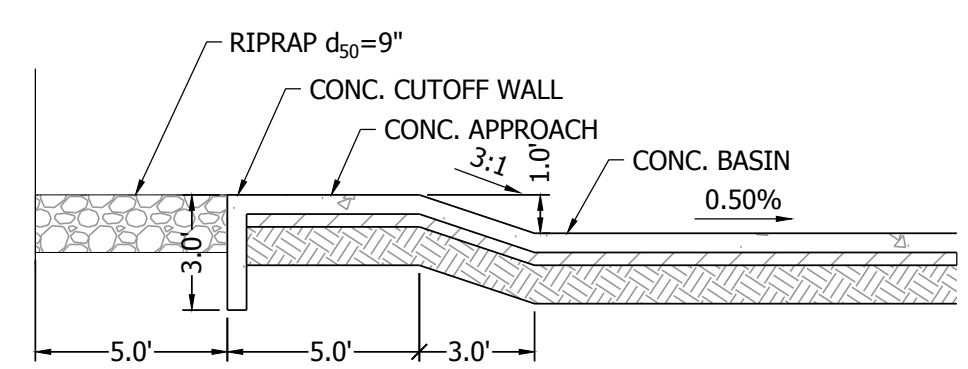
FOREBAY 2 PLAN SCALE 1" = 10'



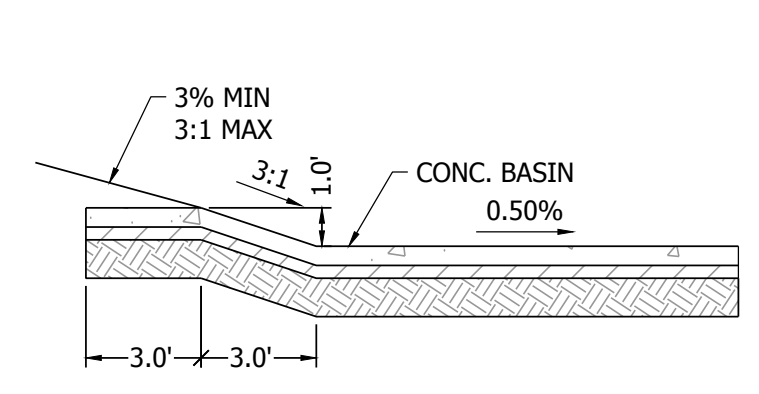
SECTION D N.T.S.



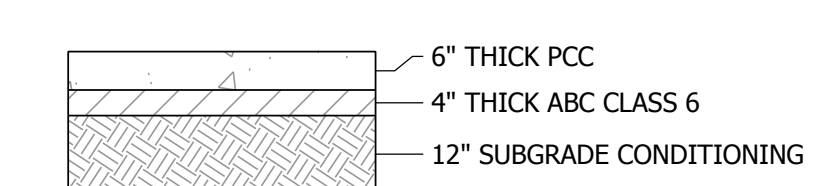
SECTION C N.T.S.



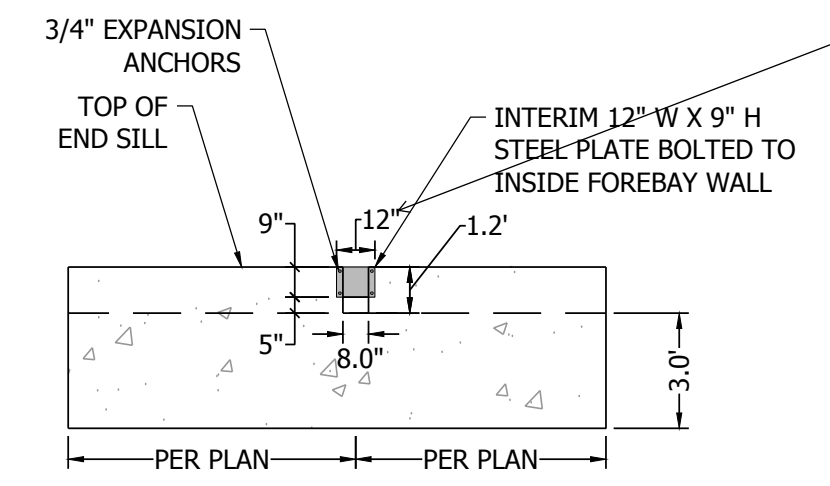
SECTION B N.T.S.



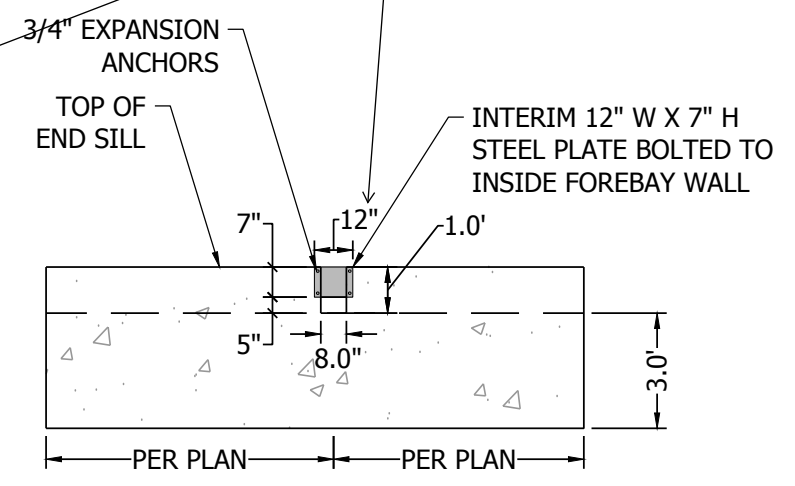
SECTION A N.T.S.



PAVEMENT SECTION N.T.S.



FOREBAY 1 END SILL NOTCH N.T.S.



FOREBAY 2 END SILL NOTCH N.T.S.

sheet C8.14 indicates a 1' wide berm. Please revise accordingly to match

why is this wall 2.4" taller than the remainder of the forebay walls? I may have missed it, but I dont see justification in the drainage report. I have concerns with forebay spilling over sides of forebay instead of the front of the forebay where the riprap protection is provided, please advise.

See comments on Drainage Report

NO.	REVISION	BY	DATE
	2ND SUBMISSION		09/01/22
	3RD SUBMISSION		01/17/23

R&R ENGINEERS-SURVEYORS, INC.
 1635 WEST 13TH AVENUE, SUITE 310
 DENVER, COLORADO 80204
 PHONE: 303-753-6730

MAYBERRY PUD PH 1 - FILING NO. 3
 MAYBERRY, COLORADO SPRINGS
 EL PASO COUNTY
 PREPARED FOR:
 MAYBERRY COMMUNITIES, LLC
 3296 DIVINE HEIGHTS #208
 COLORADO SPRINGS, CO 80922

GESC PLANS	
JOB NO.	MC22110
ORG. SUBM. DATE	06/16/2022
DWN:	LAO
CHKD:	CJD
NAME	