This PDF should just be the PCM Cert Letter and the as-built MHFD calcs. So please remove all plan sheets and move them to the PDF titled (or at least the doc slot on EDARP is called this) "Engineer Record Drawings (As-Builts)."

El Paso County
Engineering Development Review Team
2880 International Circle
Colorado Springs, CO 80910

February 2026

RE: Circle K at Hwy 24 & Meridian: PCM Certification Letter

Dear Sir or Madam,

Based on visual observation, the site and adjacent properties (as affected by work performed under the County permit) are stable with respect to settlement and subsidence, sloughing of cut and fill slopes, revegetation and other ground cover. The improvements (public improvements, common development improvements, site grading and paving) meet or exceed the minimum design requirements.

This letter certifies substantial compliance for dimensions, elevations and volumes of the Circle K at Highway 24 & Meridian Detention Pond. This certification letter is to confirm the full spectrum detention basins substantially comply with the approved plan documents and Final Drainage Report (FDR: Approved January 2023).

As-built survey of the pond by a third-party Professional Land Surveyor and a detention pond site walkthrough indicate that the pond volume, trickle channel, forebay, emergency spillway and outlet structure, as constructed and surveyed, are in conformance with the construction plans.

Caveats: Because the certifier was not involved with construction administration of the pond, the compaction of earthwork in the pond embankment, placement of buried rip rap in the emergency spillway, and/or any other items not specifically mentioned are not certified in this letter. Submittal reviews during the construction phase of the project indicate that the appropriate material submittals were made, but do not certify that these actual materials were placed or whether appropriate means of storage were utilized prior to installation.

Revise the PCM Certification Letter to include the required statements listed in ECM Section 5.10.6.B:

"The site and adjacent properties (as affected by work performed under the County permit) are stable with respect to settlement and subsidence, sloughing of cut and fill slopes, revegetation or other ground cover, and that the improvements (public improvements, common development improvements, site grading and paving) meet or exceed the minimum design requirements. **The PCM(s) provide the required storage volume and meet the required release rates, stage areas, elevations, and outlet dimensions, as documented by the attached revised MHFD-Detention spreadsheet that shows the as-built conditions.**"

Matrix Design Group, Inc., 2026©

From the Colorado Springs/El Paso County Pond certification checklist ("Yes" indicates substantial compliance):

Grading

- Grading and Slopes Completed per approved plans — Yes

Soil Mixes

- Proper storage of soil mix prior to placement *(see above)* — N/A
- Soil Mix Correct per approved plans *(See above)* — N/A

Forebay

- Built per approved plans — Yes
- Forebay Volume per approved plans — Yes

Outlet Works

- Built per approved plans — Yes

Spillway structure

- Built per approved plans — Yes

WQCV and Elevations

- WQCV per approved plans — Yes
- All elevations per approved plans — Yes

As built Plans for Permanent BMP

- Built per approved plans — Yes

If there are any questions regarding this certification, please feel free to contact me by phone: 719-575-0100 or email: luke.bonner@matrixdesigngroup.com.

Thank you,



Luke Bonner, PE #63474
Project Manager
Matrix Design Group



Matrix Design Group, Inc., 2026©

CIRCLE K AT HIGHWAY 24 & MERIDIAN ROAD
100% CONSTRUCTION DOCUMENTS

EL PASO COUNTY, COLORADO

MAY 2024

AS-BUILTS

BENCHMARK:

SITE BM NO. 1: CENTER OF SANITARY SEWER MANHOLE LOCATED 242 FEET SOUTH OF THE SOUTH EDGE OF ASPHALT OF HIGHWAY 24 AND 9 FEET EAST OF THE EAST EDGE OF ASPHALT OF OLD MERIDIAN ROAD NAVD88 DATUM ELEVATION 6825.51.

SITE BM NO. 2: CENTER OF SANITARY SEWER MANHOLE LOCATED 861 FEET SOUTH OF THE SOUTH EDGE OF ASPHALT OF HIGHWAY 24 AND 3 FEET EAST OF THE EAST EDGE OF ASPHALT OF OLD MERIDIAN ROAD NAVD88 DATUM ELEVATION 6816.71.

Per ECM 5.10.6, label each sheet as "As-Built" or "Engineer Record Drawings" with EOR stamp and signature.

BASIS OF BEARINGS:

ALL BEARINGS ARE BASED ON THE SOUTH LINE OF THE SOUTHEAST 1/4 OF SECTION 12 AS MONUMENTED BY A 3-1/4 INCH ALUMINUM CAP STAMPED "EL PASO COUNTY DPW T13S S12/S7/S13/S18 R65W R64W 1982 LS 17496" AT THE SOUTHEAST CORNER OF SECTION 12 AND BY A 3-1/4 INCH ALUMINUM CAP STAMPED "SURVCON INC, T13S R65W 1/4 S12 S13 2003 PLS 30829" AT THE SOUTH 1/4 CORNER OF SECTION 12, SAID LINE BEARS N89°50'28"W.

ENGINEER'S STATEMENT:

THESE DETAILED PLANS AND SPECIFICATIONS WERE PREPARED UNDER MY DIRECTION SUPERVISION. SAID PLANS AND SPECIFICATIONS HAVE BEEN PREPARED ACCORDING TO THE CRITERIA ESTABLISHED BY THE COUNTY FOR DETAILED ROADWAY, DRAINAGE, GRADING AND EROSION CONTROL PLANS AND SPECIFICATIONS, AND SAID PLANS AND SPECIFICATIONS ARE IN CONFORMITY WITH APPLICABLE MASTER DRAINAGE PLANS AND MASTER TRANSPORTATION PLANS. SAID PLANS AND SPECIFICATIONS MEET THE PURPOSES FOR WHICH THE PARTICULAR ROADWAY AND DRAINAGE FACILITIES ARE DESIGNED AND ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. I ACCEPT RESPONSIBILITY FOR ANY LIABILITY CAUSED BY ANY NEGLIGENT ACTS, ERRORS OR OMISSIONS ON MY PART IN PREPARATION OF THESE DETAILED PLANS AND SPECIFICATIONS.

BY: _____ DATE: 05/30/2024

NICOLE SCHANEL, PE #52434
FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC.

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 DIRECTORS DISCRETION.

Gilbert LaForce, P.E. — Digitally signed by Gilbert LaForce, P.E. Reason: On Behalf of the County Engineer Date: 2024.06.12 11:27:33-06'00' — 06/12/2024 DATE

JOSHUA PALMER
COUNTY ENGINEER / ECM ADMINISTRATOR

OWNER:

I, THE OWNER/DEVELOPER HAVE READ AND WILL COMPLY WITH ALL OF THE REQUIREMENTS SPECIFIED IN THESE DETAILED PLANS AND SPECIFICATIONS.

_____ June 5, 2024
DATE

CST METRO, LLC
19500 BULVERDE ROAD, SUITE 100
SAN ANTONIO TX, 78259

CONTACT LIST

OWNER
CST METRO, LLC
19500 BULVERDE ROAD, SUITE 100
SAN ANTONIO TX, 78259

PHONE: (720) 758-6223

DEVELOPER
LAND DEVELOPMENT CONSULTANTS, LLC
950 S. CHERRY ST., SUITE 510
DENVER, CO 80246
SOFIA HERNANDEZ
PHONE: (303) 717-3305
SOFIA@LDCAZ.COM

CIVIL ENGINEER/ LANDSCAPE ARCHITECT
MATRIX DESIGN GROUP
2435 RESEARCH PARKWAY, SUITE 300
COLORADO SPRINGS, CO 80920
NICOLE SCHANEL/ JASON ALWINE
PHONE: (719) 575-0100
NICOLE.SCHANEL@MATRIXDESIGNGROUP.COM

ARCHITECT
GREENBERG FARROW
30 EXECUTIVE DRIVE, SUITE 100
IRVINE, CA 92614
DOUG COUPER
PHONE: (949) 296-0450

LAND SURVEYOR
RUBINO SURVEYING
3312 AIRPORT ROAD
BOULDER, COLORADO 80301
PHONE: (303) 464-9515

GEOTECHNICAL ENGINEER
TERRACON CONSULTANTS, INC.
4172 CENTER PARK DRIVE
COLORADO SPRINGS, CO 80916
PHONE: (719) 597-2116

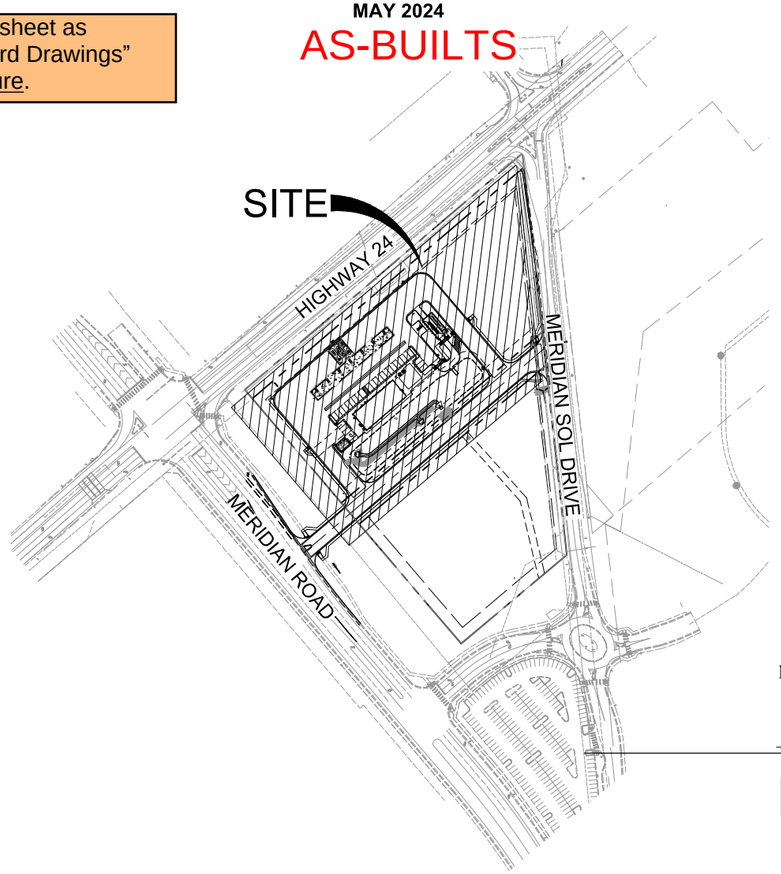
ELECTRICAL SERVICE
MOUNTAIN VIEW ELECTRIC ASSOCIATION
11140 E. WOODMEN ROAD
PEYTON, COLORADO 80831
PHONE: (719) 495-2283

WATER & SANITARY
WOODMEN HILLS METRO DISTRICT
8046 EASTONVILLE ROAD
FALCON, CO 80831
PHONE: (719) 495-2500

FIRE
FALCON FIRE PROTECTION DISTRICT
7030 OLD MERIDIAN ROAD
FALCON, CO 80831
PHONE: (719) 495-4050

STORM SEWER
EL PASO COUNTY PUBLIC SERVICES
3275 AKERS DR.
COLORADO SPRINGS, COLORADO 80922
PHONE: (719) 520-6460

GAS
COLORADO SPRINGS UTILITIES
7710 DURANT DRIVE
COLORADO SPRINGS, COLORADO 80920
TIM BENEDICT
PHONE: (719) 668-3574



SITE MAP
1" = 150'



VICINITY MAP
1" = 2,000'

SHEET INDEX		
SHEET TITLE	SHEET DESCRIPTION	SHEET NUMBER
TS01	COVER SHEET	1
GN01	GENERAL NOTES	2
GN02	GENERAL NOTES	3
GN03	GENERAL NOTES	4
GN04	GENERAL NOTES	5
DM01	DEMOLITION PLAN	6
DGP01	DETAILED GRADING PLAN	7
PP01	PAVEMENT PLAN	8
UT01	OVERALL UTILITY PLAN	9
WT01	WATER PLAN & PROFILE	10
SS01	SANITARY PLAN & PROFILE	11
DT01	UTILITY DETAILS	12
DT02	UTILITY DETAILS	13
SD01	STORM DRAIN PLANS	14
DF01	POND PLAN	15
DF02	POND DETAILS	16
DF03	POND DETAILS	17
DF04	POND DETAILS	18
SN01	SIGNING & STRIPING PLAN	19

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

COUNTY PLANNING CERTIFICATION

THESE CONSTRUCTION DOCUMENTS HAVE BEEN REVIEWED AND FOUND TO BE IN ACCORDANCE WITH EL PASO COUNTY LAND DEVELOPMENT CODE.

_____
DIRECTOR, PLANNING AND COMMUNITY DEVELOPMENT — DATE

FIRE AUTHORITY APPROVAL:

THE NUMBER OF FIRE HYDRANTS AND HYDRANT LOCATIONS SHOWN ON THIS WATER INSTALLATION PLAN ARE CORRECT AND ADEQUATE TO SATISFY THE FIRE PROTECTION REQUIREMENTS AS SPECIFIED BY THE FIRE DISTRICT SERVING THE PROPERTY NOTED ON THE PLANS.

FIRE PROTECTION DISTRICT: Falcon Fire Protection District

SIGNED: Curtis L. Kauffman _____ DATE: 06/05/2024
FIRE PROTECTION DISTRICT

WATER AND SEWER MAIN EXTENSIONS:

ANY CHANGES OR ALTERATIONS AFFECTING THE GRADE, ALIGNMENT, ELEVATION, AND/OR DEPTH OF COVER OF ANY WATER OR SEWER MAINS OR OTHER APPURTENANCE SHOWN ON THIS DRAWING SHALL BE THE RESPONSIBILITY OF THE OWNER/DEVELOPER. THE OWNER/DEVELOPER SHALL BE RESPONSIBLE FOR ALL OPERATIONAL DAMAGES AND DEFECTS IN INSTALLATION AND MATERIAL FOR MAINS AND SERVICES FROM THE DATE OF APPROVAL UNTIL FINAL ACCEPTANCE IS ISSUED.

SIGNED: _____ DATE: June 5, 2024
OWNER/DEVELOPER

PRINT NAME: James W. Hollis Jr., Secretary of CST Metro, LLC

DBA: Circle K Stores Inc.

ADDRESS: 17319 San Pedro Avenue, Suite 400, San Antonio, Texas 78232

DISTRICT APPROVALS:

THE WOODMEN HILLS METROPOLITAN DISTRICT RECOGNIZES THE DESIGN ENGINEER AS HAVING RESPONSIBILITY FOR THE DESIGN AND HAS LIMITED ITS SCOPE OF REVIEW ACCORDINGLY.

WOODMEN HILLS METROPOLITAN DISTRICT
WATER DESIGN APPROVAL

DATE: 6-3-2024 BY: Cody Ritter

PROJECT NO. N/A

IN CASE OF ERRORS OR OMISSIONS WITH THE WATER DESIGN AS SHOWN ON THIS DOCUMENT, THE STANDARDS AS DEFINED IN THE "RULES AND REGULATIONS FOR INSTALLATION OF WATER MAINS AND SERVICES" SHALL RULE.

APPROVAL EXPIRES 180 DAYS FROM DESIGN APPROVAL.

WOODMEN HILLS METROPOLITAN DISTRICT
WASTEWATER DESIGN APPROVAL

DATE: 6-3-2024 BY: Cody Ritter

PROJECT NO. N/A

IN CASE OF ERRORS OR OMISSIONS WITH THE WATER DESIGN AS SHOWN ON THIS DOCUMENT THE STANDARDS AS DEFINED IN THE "RULES AND REGULATIONS FOR INSTALLATION OF WASTEWATER MAINS AND SERVICES" SHALL RULE.

APPROVAL EXPIRES 180 DAYS FROM DESIGN APPROVAL.

According to the modeled calculations reviewed by the governing water district and/or Colorado registered civil engineer/designer; the theoretical available fire flow at node __A__ is _____ gallons per minute under maximum daily demand conditions at 20 psi residual. The actual fire flow may vary due to various parameters.

According to the modeled calculations reviewed by the governing water district and/or Colorado registered civil engineer/designer; the theoretical available fire flow at node __B__ is _____ gallons per minute under maximum daily demand conditions at 20 psi residual. The actual fire flow may vary due to various parameters.

Upon detailed review of the available water supply, fire hydrant locations and hose lay distances, these plans are hereby considered approved.

FALCON FIRE DEPARTMENT
FIRE DEPARTMENT SIGNATURE: Curtis L. Kauffman
DATE: 06/05/2024

PCD FILING NO.: PPR2230

CONSULTANTS:

Matrix Excellence by Design
2435 RESEARCH PARKWAY, SUITE 300 COLORADO SPRINGS, CO 80920
PHONE: (719) 575-0100

LAND DEVELOPMENT CONSULTANTS, LLC
950 S. CHERRY ST., SUITE 510
DENVER, CO 80246

OWNER:

CIRCLE K
CST METRO, LLC
19500 BULVERDE ROAD, SUITE 100
SAN ANTONIO TX, 78259
PHONE: (720) 758-6223

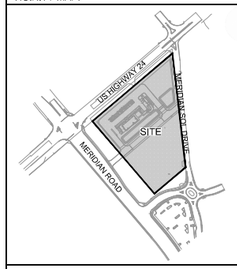
SEAL

COLORADO LICENSED NICOLE W. SCHANEL 52434 PROFESSIONAL ENGINEER

FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC

CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE MOST RECENT PROJECT CONSTRUCTION DOCUMENTS. MATRIX DESIGN GROUP IS NOT RESPONSIBLE FOR CHANGES, ALTERATIONS, OR USE OF CONSTRUCTION DOCUMENTS PRIOR TO JURISDICTIONAL APPROVAL.

VICINITY MAP:



PROJECT:

CIRCLE K STORES INC.

100% CONSTRUCTION DOCUMENTS

HIGHWAY 24 & MERIDIAN ROAD
FALCON, CO

REVISION HISTORY:

NO.	DATE	DESCRIPTION	BY
1	09/06/2022	PER REVIEW COMMENTS	
2	09/30/2022	75% CD SUBMITTAL	
3	10/07/2022	100% CD SUBMITTAL	
4	12/02/2022	CD 1ST RE-SUBMITTAL	
5	01/19/2023	CD 2ND RE-SUBMITTAL	

DRAWING INFORMATION:

PROJECT NO: 21.1207.037
DRAWN BY: LCB
CHECKED BY: NMS
DESIGNED BY: NMS

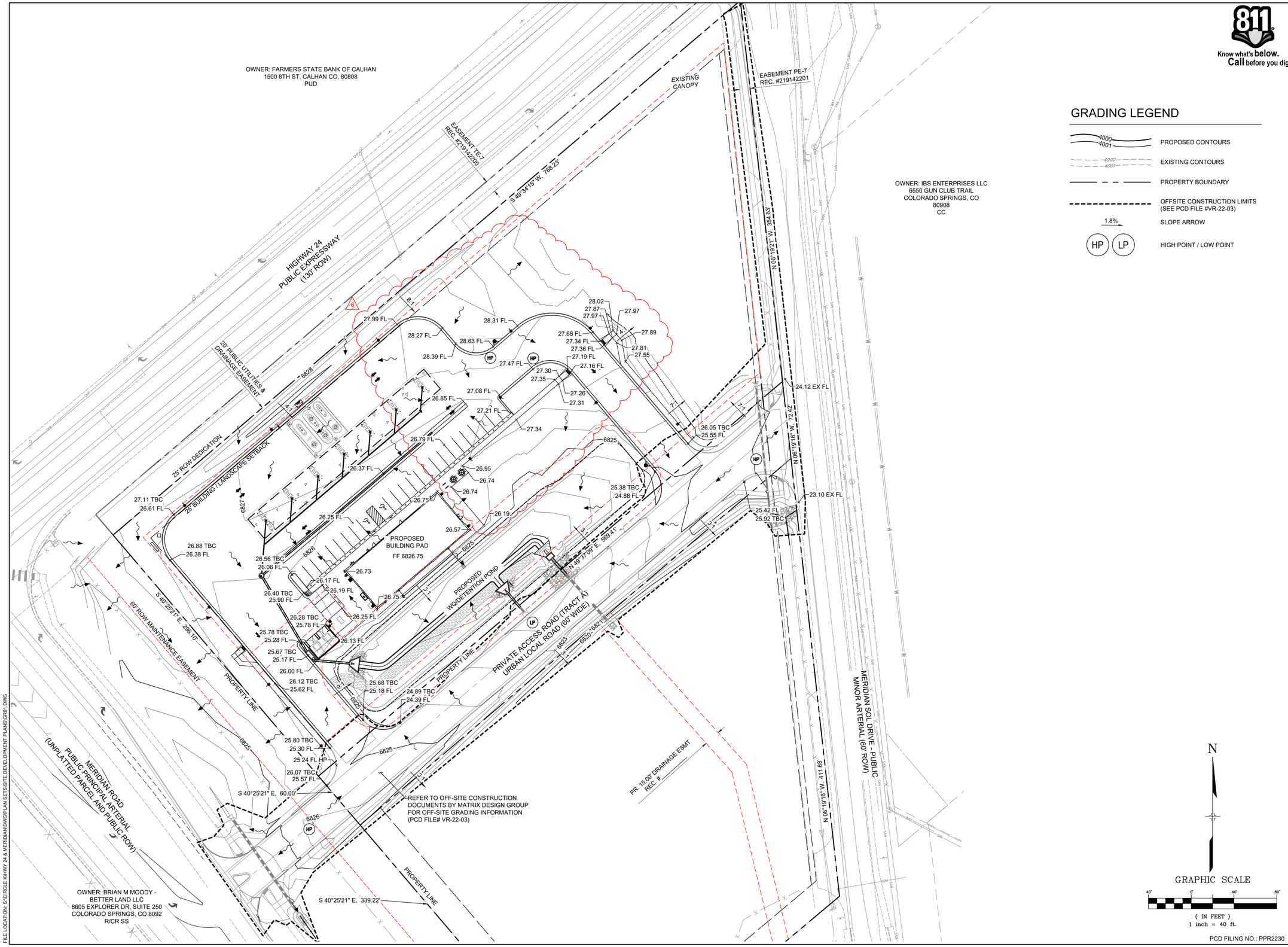
SHEET TITLE:

COVER SHEET
AS-BUILTS

SHEET 1 OF 19
TS01

ISSUE DATE: MAY 2024

FILE LOCATION: S:\CIRCLE K\HWY 24 & MERIDIAN\DWG\PLAN SETS\SITE DEVELOPMENT PLAN\TS01_CDS.DWG



GRADING LEGEND

- PROPOSED CONTOURS (4000 / 4001)
- EXISTING CONTOURS (4000 / 4001)
- PROPERTY BOUNDARY
- OFFSITE CONSTRUCTION LIMITS (SEE PCD FILE #VR-22-03)
- SLOPE ARROW (1.8%)
- HIGH POINT / LOW POINT (HP / LP)

N

GRAPHIC SCALE

40' 0' 40' 80'

(IN FEET)
1 inch = 40 ft.

PCD FILING NO.: PPR2230

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

CONSULTANTS:

Matrix
Excellence by Design
2435 RESEARCH PARKWAY, SUITE
300 COLORADO SPRINGS, CO 80920
PHONE: (719) 575-0100

LAND DEVELOPMENT CONSULTANTS, LLC
950 S. CHERRY ST., SUITE 510
DENVER, CO 80246

OWNER:

CIRCLE K
CST METRO, LLC
19500 BULVERDE ROAD, SUITE 100
SAN ANTONIO TX, 78259
PHONE: (720) 758-6223

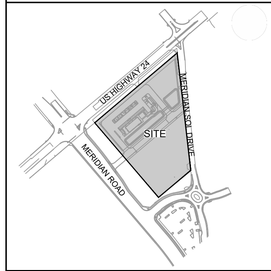
SEAL

COLORADO LICENSED
KYLE W. SCHWAB
62434
09/30/2022
PROFESSIONAL ENGINEER

FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC

CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE MOST RECENT PROJECT CONSTRUCTION DOCUMENTS. MATRIX DESIGN GROUP IS NOT RESPONSIBLE FOR CHANGES, ALTERATIONS, OR USE OF CONSTRUCTION DOCUMENTS PRIOR TO JURISDICTIONAL APPROVAL.

VICINITY MAP:



PROJECT:

CIRCLE K STORES INC.

CD ADDENDUM 1

HIGHWAY 24 & MERIDIAN ROAD
FALCON, CO

REVISION HISTORY:

NO.	DATE	DESCRIPTION	BY
2	09/30/2022	75% CD SUBMITTAL	
3	10/07/2022	100% CD SUBMITTAL	
4	12/02/2022	CD 1ST RE-SUBMITTAL	
5	01/19/2023	CD 2ND RE-SUBMITTAL	
6	06/02/2025	CD AMENDMENT 1	

DRAWING INFORMATION:

PROJECT NO: 21.1207.037
DRAWN BY: LCB
CHECKED BY: NMS
DESIGNED BY: NMS

SHEET TITLE:

DETAILED GRADING PLAN

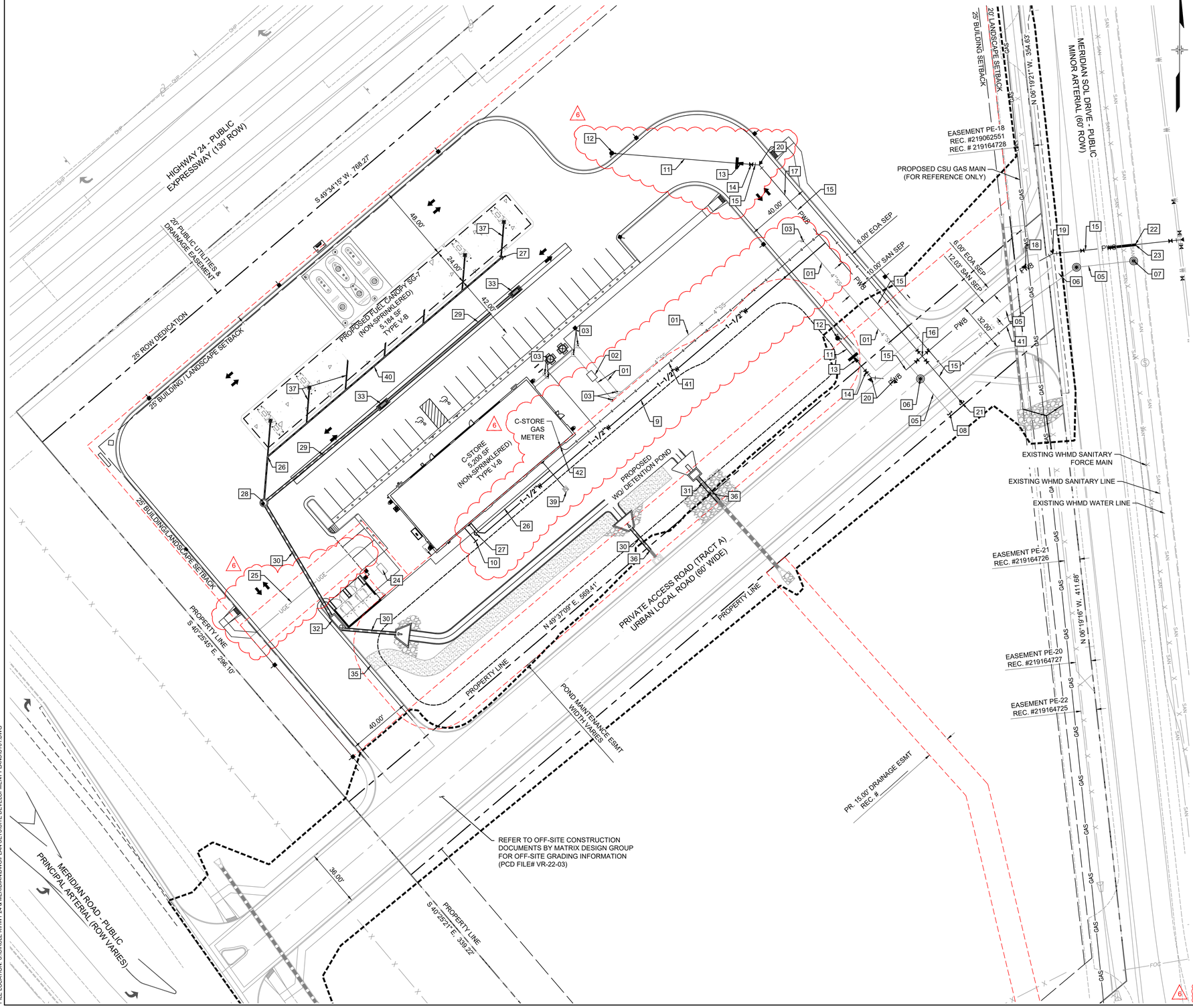
AS-BUILTS

SHEET 7 OF 19

DGP01

ISSUE DATE: JUNE 2025

FILE LOCATION: S:\CIRCLE K\HWY 24 & MERIDIAN\DWG\PLAN SETS\SITE DEVELOPMENT PLANS\DGP01.DWG



GRAPHIC SCALE

30' 0' 30' 60'

(IN FEET)
1 inch = 30 ft.

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

UTILITY LEGEND

- PROPERTY BOUNDARY LINE
- ADJACENT PROPERTY LINE
- EASEMENT BOUNDARY LINE
- TYPE A CONCRETE CURB & GUTTER
- PROPOSED BOUNDARY BETWEEN CONCRETE & ASPHALT
- PWB — PROPOSED WATER MAIN/SERVICE
- P-SS 8 — PROPOSED SANITARY MAIN/SERVICE
- PROPOSED STORM ROOF DRAIN
- UGE — PROPOSED UNDERGROUND ELECTRICAL SERVICE
- OFFSITE CONSTRUCTION LIMITS (SEE PCD FILE #VR-22-03)
- PROPOSED STORM PIPE
- EXISTING STORM PIPE

UTILITY NOTES

01 4" SANITARY SERVICE LINE
02 OIL/GREASE INTERCEPTOR (PER ARCH PLANS) (LIDS TO BE PAINTED BLACK)
03 SANITARY SEWER CLEANOUT
04 RECLAIM TANKS (LIDS TO BE PAINTED BLACK)
05 8" SANITARY MAIN
06 5' SANITARY MANHOLE
07 POINT OF CONNECTION - TIE INTO EXISTING 8" SANITARY MAIN INSTALL 5' MANHOLE
08 8" SANITARY PLUG
09 1-1/2" WATER SERVICE LINE
10 1-1/2" IRRIGATION SERVICE
11 6" HYDRANT LATERAL (BELL JOINT PROTECTED)
12 FIRE HYDRANT
13 8"x6" REDUCER
14 8" GATE VALVE
15 8" WATER MAIN
16 8"X8" CROSS W/ VALVES
17 WATER SERVICE TAP
18 8"x11.25° HORIZONTAL BEND W/ CTRB
19 8"x22.50° HORIZONTAL BEND W/ CTRB
20 8"x45.00° HORIZONTAL BEND W/ CTRB
21 8" PLUG & BLOW-OFF VALVE
22 8"x8" TEE W/ CTRB & VALVES
23 POINT OF CONNECTION - TIE INTO EXISTING WATER MAIN
24 ELECTRIC TRANSFORMER (PER ARCH PLANS)
25 UNDERGROUND ELECTRICAL LINE (FOR REFERENCE ONLY)
26 PRIVATE 6" PVC STORM DRAIN
27 STORM SEWER CLEANOUT
28 4' STORM MANHOLE
29 15" RCP STORM SEWER
30 18" RCP STORM SEWER
31 24" RCP STORM SEWER
32 10' TYPE R STORM INLET (PRIVATE)
33 NO. 16 DENVER AREA INLET (TRIPLE) (PRIVATE) (GRATES TO BE BOLTED INTO GROUND)
34 CONCRETE FLUME
35 MAINTENANCE ACCESS ROAD
36 POINT OF CONNECTION - TIE INTO EXISTING STORM SEWER
37 PRIVATE 6" PVC ROOF DRAINS
38 1-1/2" WATER SERVICE
39 6" PVC ROOF DRAIN DAYLIGHT POINT
40 PRIVATE 8" PVC ROOF DRAINS
41 GAS SERVICE LINE (FOR REFERENCE ONLY)
42 GAS SERVICE ENTRY W/ GAS METER (PER ARCH PLANS)
43 WATER SERVICE CURB STOP

6 PCD FILING NO.: PPR2230

FILE LOCATION: S:\CIRCLE K\HWY 24 & MERIDIAN\DWG\PLAN SET\SITE DEVELOPMENT PLANS\UT01.DWG

CONSULTANTS:

Matrix
Excellence by Design
2435 RESEARCH PARKWAY, SUITE
300 COLORADO SPRINGS, CO 80920
PHONE: (719) 575-0100

LAND DEVELOPMENT CONSULTANTS, LLC
950 S. CHERRY ST., SUITE 510
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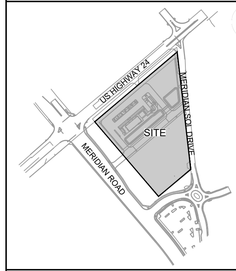
SEAL

COLORADO LICENSED
KYLE W. SCHWARTZ
62434
06/06/2025
PROFESSIONAL ENGINEER

FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC

CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE MOST RECENT PROJECT CONSTRUCTION DOCUMENTS. MATRIX DESIGN GROUP IS NOT RESPONSIBLE FOR CHANGES, ALTERATIONS, OR USE OF CONSTRUCTION DOCUMENTS PRIOR TO JURISDICTIONAL APPROVAL.

VICINITY MAP:



PROJECT:

CIRCLE K STORES INC.

CD ADDENDUM 1

HIGHWAY 24 & MERIDIAN ROAD
FALCON, CO

REVISION HISTORY:

NO.	DATE	DESCRIPTION	BY
2	09/30/2022	75% CD SUBMITTAL	
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6	06/02/2025	CD AMENDMENT 1	

DRAWING INFORMATION:

PROJECT NO: 21.1207.037
DRAWN BY: LCB
CHECKED BY: NMS
DESIGNED BY: NMS

SHEET TITLE:

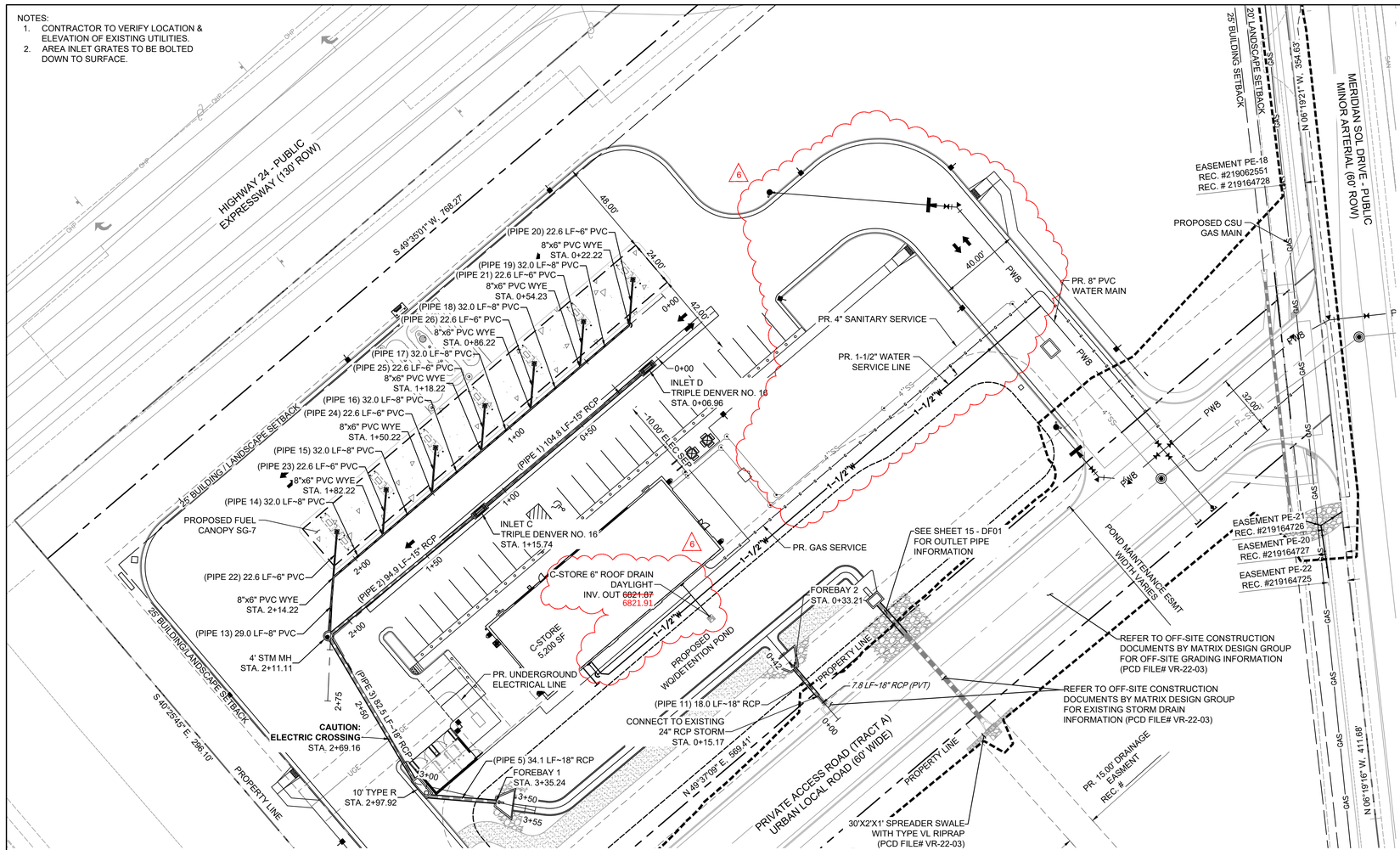
OVERALL UTILITY PLAN

AS-BUILTS

SHEET 9 OF 19
UT01

ISSUE DATE: JUNE 2025

NOTES:
1. CONTRACTOR TO VERIFY LOCATION & ELEVATION OF EXISTING UTILITIES.
2. AREA INLET GRATES TO BE BOLTED DOWN TO SURFACE.



N

GRAPHIC SCALE
30' 0' 30' 60'
(IN FEET)
1 inch = 30 ft.

Know what's below. Call before you dig.

UTILITY LEGEND

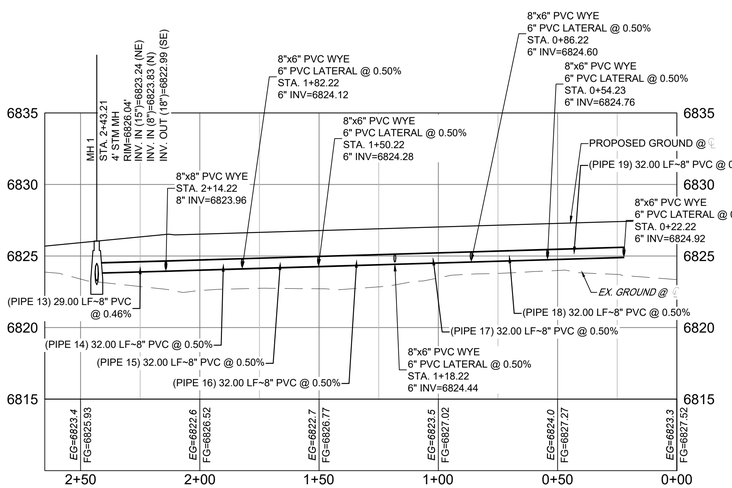
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- ADJACENT PROPERTY LINE
- EASEMENT BOUNDARY LINE
- TYPE A CONCRETE CURB & GUTTER
- PROPOSED BOUNDARY BETWEEN CONCRETE & ASPHALT
- PWB — PROPOSED WATER MAIN/SERVICE
- P-SS 8 — PROPOSED SANITARY MAIN/SERVICE
- PROPOSED STORM ROOF DRAIN
- PROPOSED STORM PIPE
- EXISTING STORM PIPE
- UGE — PROPOSED UNDERGROUND ELECTRICAL SERVICE
- OFFSITE CONSTRUCTION LIMITS (SEE PCD FILE #VR-22-03)

PIPE SUMMARY TABLE

PIPE NAME	PIPE DESCRIPTION	PIPE SLOPE	PIPE LENGTH	PIPE BEARING
PIPE 1	15" RCP	0.50%	104.82	N49°34'15"E
PIPE 2	15" RCP	0.49%	94.88	N50°28'35"E
PIPE 3	18" RCP	0.71%	82.54	S30°43'03"E
PIPE 5	18" RCP	0.80%	34.12	S85°15'29"E
PIPE 12	24" RCP	1.00%	19.76	N41°46'04"W
PIPE 13	8" PVC	0.46%	29.00	N04°34'15"E
PIPE 14	8" PVC	0.50%	32.00	N49°34'15"E
PIPE 15	8" PVC	0.50%	32.00	N49°34'15"E
PIPE 16	8" PVC	0.50%	32.00	N49°34'15"E
PIPE 17	8" PVC	0.50%	32.00	N49°34'15"E
PIPE 18	8" PVC	0.50%	32.00	N49°34'15"E
PIPE 19	8" PVC	0.50%	32.00	N49°34'15"E
PIPE 20	6" PVC	0.50%	22.63	N04°34'15"E
PIPE 21	6" PVC	0.50%	22.63	N04°34'15"E
PIPE 22	6" PVC	0.50%	22.63	N04°34'14"E
PIPE 23	6" PVC	0.50%	22.63	N04°34'14"E
PIPE 24	6" PVC	0.50%	22.63	N04°34'14"E
PIPE 25	6" PVC	0.50%	22.63	N04°34'06"E
PIPE 26	6" PVC	0.50%	22.63	N04°34'14"E

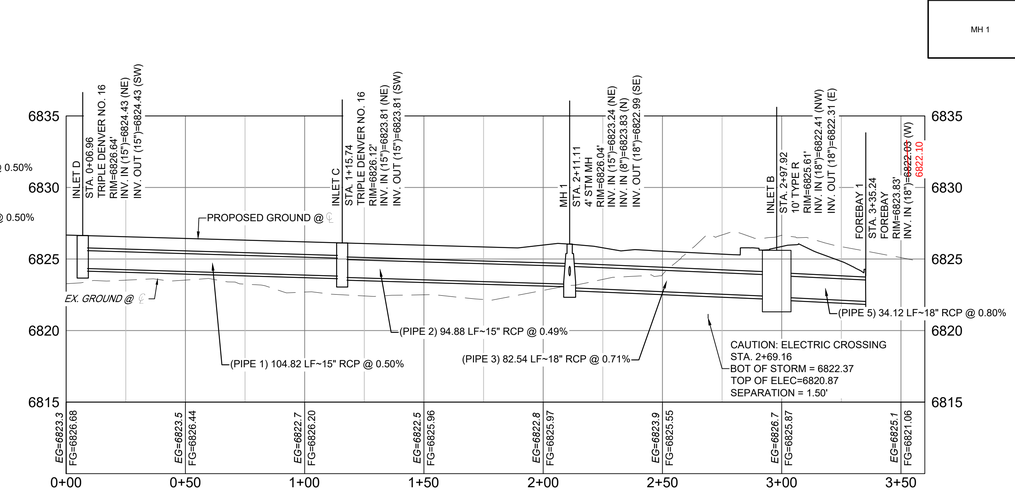
STRUCTURE TABLE

STRUCTURE NAME	STRUCTURE DETAILS	STRUCTURE TYPE	NORTHING & EASTING
FOREBAY 1	RIM = 6823.826 SUMP = ??? PIPE 5 INV IN (18") = 6822.035	FOREBAY	N: 1401097.81 E: 3253175.87
INLET B	RIM = 6825.608 SUMP = 6822.306 PIPE 3 INV IN (18") = 6822.410 PIPE 5 INV OUT (18") = 6822.306	10' TYPE R	N: 1401104.91 E: 3253139.21
INLET C	RIM = 6826.124 SUMP = 6823.710 PIPE 2 (A) INV IN (15") = 6823.810 PIPE 2 (B) INV OUT (15") = 6823.810	TRIPLE DENVER NO. 16	N: 1401241.40 E: 3253167.85
INLET D	RIM = 6826.642 SUMP = 6824.330 PIPE 1 (A) INV IN (15") = 6824.430 PIPE 1 (B) INV OUT (15") = 6824.430	TRIPLE DENVER NO. 16	N: 1401311.94 E: 3253250.65
MH 1	RIM = 6826.045 SUMP = 6822.992 PIPE 2 INV IN (15") = 6823.240 PIPE 13 INV IN (8") = 6823.826 PIPE 3 INV OUT (18") = 6822.992	4' STM MH	N: 1401179.72 E: 3253093.14

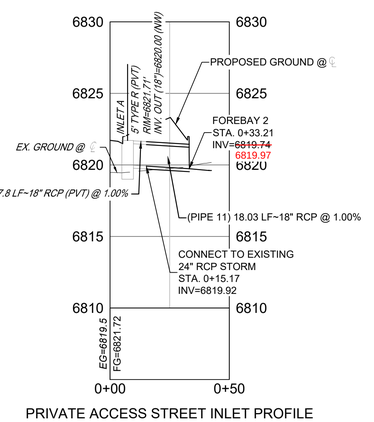


CANOPY ROOF DRAIN PROFILE
SCALE: (H) 1" = 30' (V) 1" = 5'
START STA: 0+00.00, END STA: 2+65.00

NOTE: PROFILE IS RIGHT TO LEFT



STORM DRAIN PROFILE
SCALE: (H) 1" = 30' (V) 1" = 5'
START STA: 0+00.00, END STA: 3+60.00



PRIVATE ACCESS STREET INLET PROFILE
SCALE: (H) 1" = 30' (V) 1" = 5'
START STA: 0+00.00, END STA: 0+50.00

PCD FILING NO.: PPR2230

FILE LOCATION: S:\CIRCLE K\HWY 24 & MERIDIAN\DWG\PLAN SET\SITE DEVELOPMENT PLANS\SD01.DWG

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OWNER:

CIRCLE K
CST METRO, LLC
19500 BULVERDE ROAD, SUITE 100
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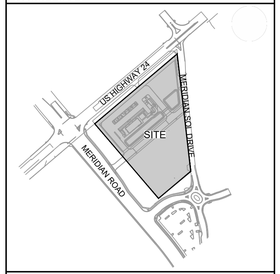
SEAL

COLORADO LICENSED
ANGELE W. SCHWEIZER
62434
10/7/2022
PROFESSIONAL ENGINEER

FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC

CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE MOST RECENT PROJECT CONSTRUCTION DOCUMENTS. MATRIX DESIGN GROUP IS NOT RESPONSIBLE FOR CHANGES, ALTERATIONS, OR USE OF CONSTRUCTION DOCUMENTS PRIOR TO JURISDICTIONAL APPROVAL.

VICINITY MAP:



PROJECT:

CIRCLE K STORES INC.

CD ADDENDUM 1

HIGHWAY 24 & MERIDIAN ROAD
FALCON, CO

REVISION HISTORY:

NO.	DATE	DESCRIPTION	BY
2	09/30/2022	75% CD SUBMITTAL	
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5	01/19/2023	CD 2ND RE-SUBMITTAL	
6	06/02/2025	CD ADDENDUM 1	

DRAWING INFORMATION:

PROJECT NO: 21.1207.037
DRAWN BY: LCB
CHECKED BY: NMS
DESIGNED BY: NMS

SHEET TITLE:

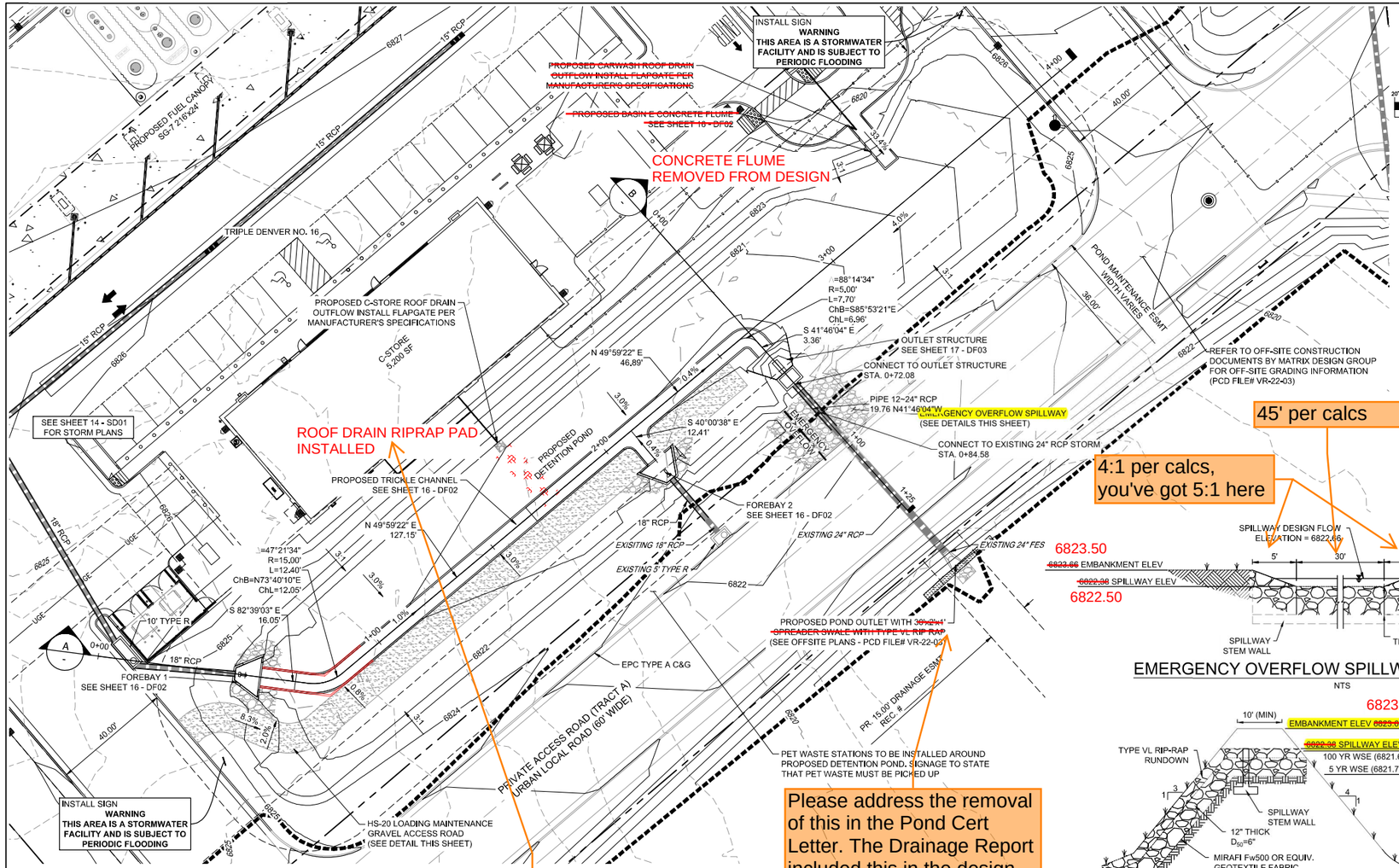
STORM DRAIN PLANS

AS-BUILTS

SHEET 14 OF 19

SD01

ISSUE DATE: JUNE 2025



PCD FILING NO.: PPR2230

FILE LOCATION: S:\CIRCLE K\HWY 24 & MERIDIAN\DWG\PLAN SETS\SITE DEVELOPMENT PLANS\DF01.DWG

CONSULTANTS:

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DENVER, CO 80246

OWNER/DEVELOPER:

CIRCLE K
ROCKY MOUNTAINS DIVISION
5500 S QUEBEC STREET, SUITE 100
GREENWOOD VILLAGE, CO 80111
PHONE: (720) 758-6223

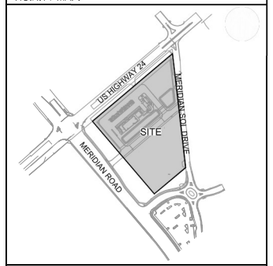
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JOSHUA M. SAPP
52434
05/23/24
PROFESSIONAL ENGINEER

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VICINITY MAP:



PROJECT:

CIRCLE K STORES INC.

100% CONSTRUCTION DOCUMENTS

HIGHWAY 24 & MERIDIAN ROAD
FALCON, CO

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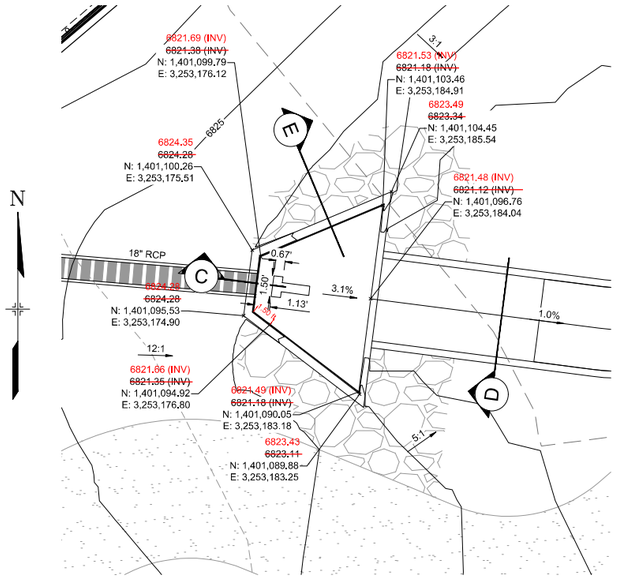
PROJECT NO: 21.1207.037
DRAWN BY: LCB
CHECKED BY: NMS
DESIGNED BY: NMS

SHEET TITLE:

POND PLAN
AS-BUILTS

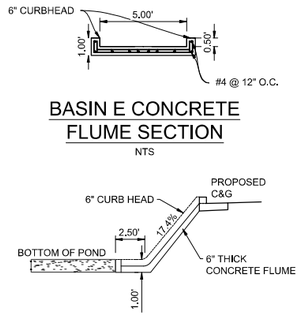
SHEET 15 OF 19
DF01

ISSUE DATE: MAY 2024



FOREBAY 1

H: 1" = 5'

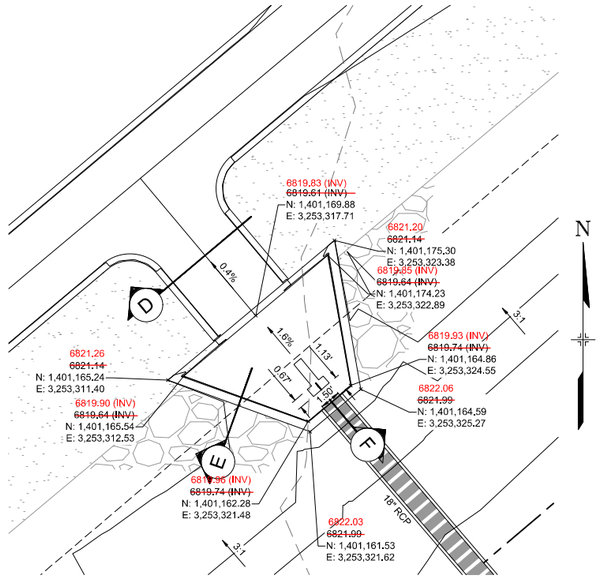


BASIN E CONCRETE FLUME SECTION

NTS

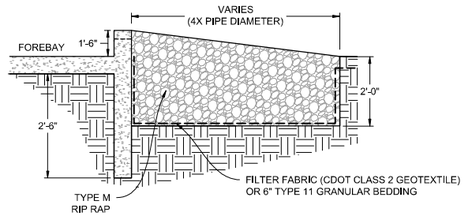
BASIN E CONCRETE FLUME PROFILE

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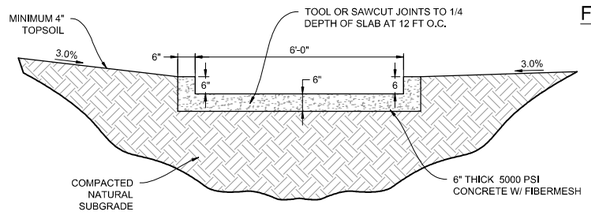
FOREBAY 2

H: 1" = 5'



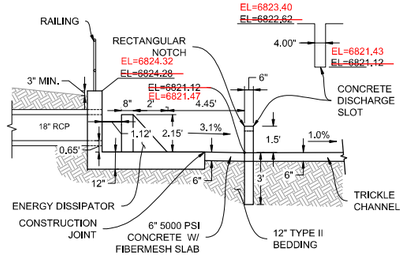
SECTION E

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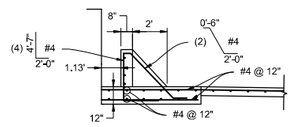
SECTION D

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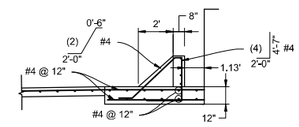
SECTION C

H: 1" = 4'



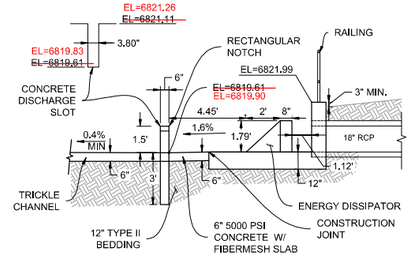
FOREBAY 1 REINFORCING

H: 1" = 4'



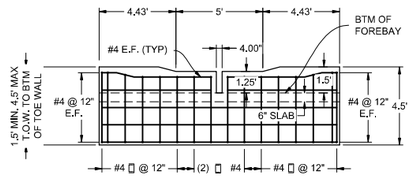
FOREBAY 2 REINFORCING

H: 1" = 4'



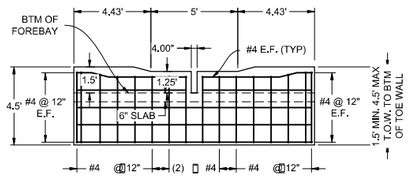
SECTION F

H: 1" = 4'



FOREBAY 1 WALL PROFILE

H: 1" = 4'



FOREBAY 2 WALL PROFILE

H: 1" = 4'

PCD FILING NO.: PPR2230

FILE LOCATION: S:\CIRCLE K\HWY 24 & MERIDIAN\DWG\PLAN SET\SITE DEVELOPMENT PLANS\DF01.DWG

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GREENWOOD VILLAGE, CO 80111
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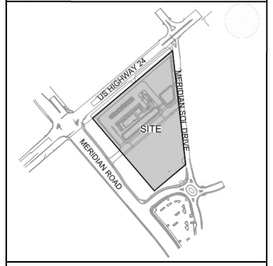
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VICINITY MAP:



PROJECT:

CIRCLE K STORES INC.

100% CONSTRUCTION DOCUMENTS

HIGHWAY 24 & MERIDIAN ROAD
FALCON, CO

REVISION HISTORY:

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DRAWING INFORMATION:

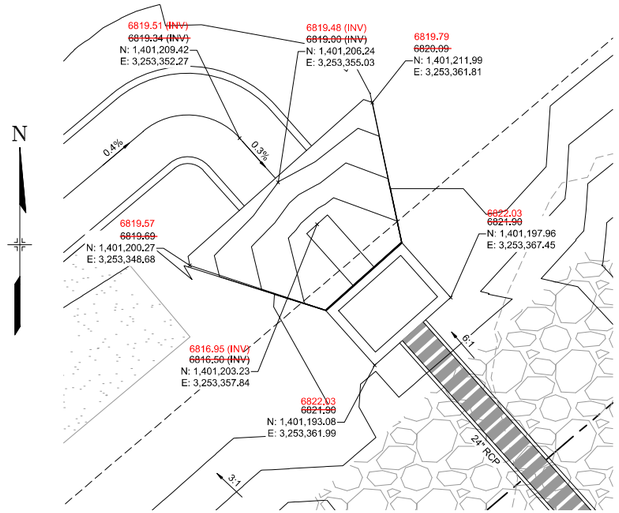
PROJECT NO: 21.1207.037
DRAWN BY: LCB
CHECKED BY: NMS
DESIGNED BY: NMS

SHEET TITLE:

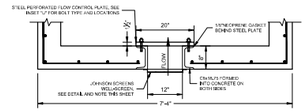
POND DETAILS
AS-BUILTS

SHEET 16 OF 19
DF02

ISSUE DATE: MAY 2024



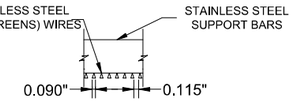
OUTLET STRUCTURE
H: 1" = 5'



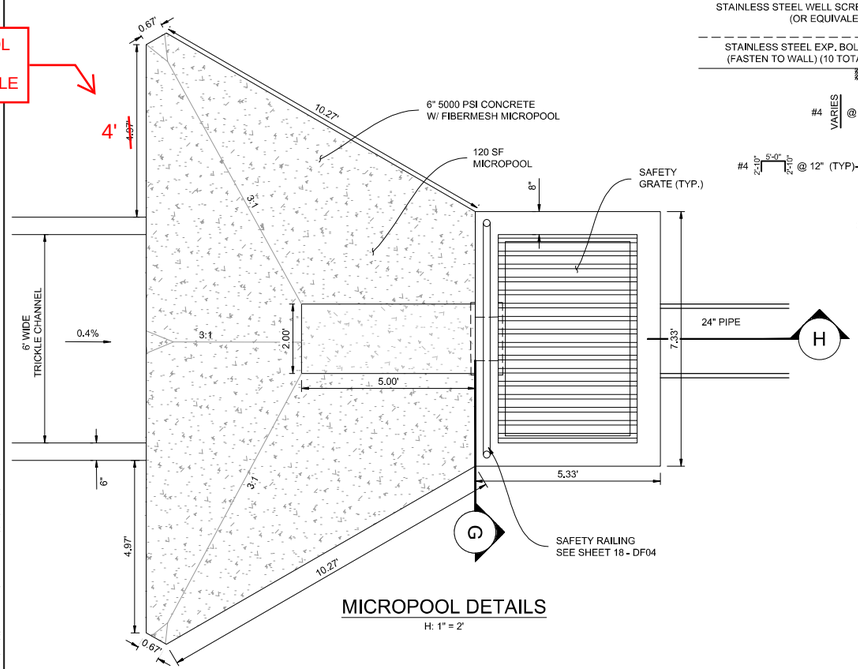
OUTLET STRUCTURE AT ORIFICE PLATE DETAILS
H: 1" = 2'

JOHNSON SCREENS STAINLESS STEEL
VEE WIRE FILTERS WELL-SCREEN (OR EQUAL)

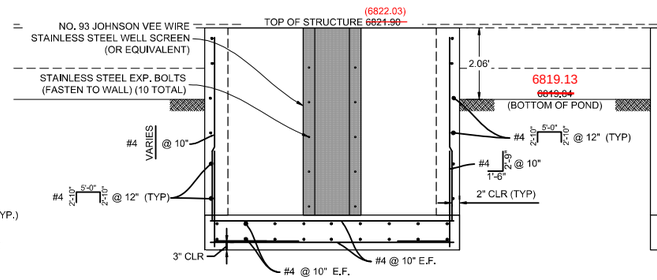
STRUCTURE	SCREEN #93 VEE WIRE SLOT OPENING	SUPPORT ROD TYPE & SPACING	TOTAL SCREEN THICKNESS	CARBON STEEL FRAME TYPE
OUTLET STRUCTURES	0.139	#156 VEE @ 3/4" O.C.	0.31"	3/8" x 1" BAR



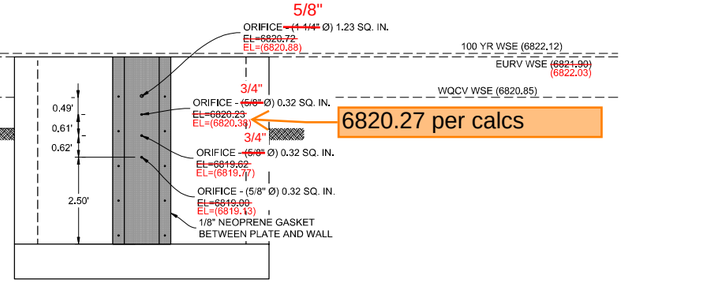
MICROPOOL SIZE ACCEPTABLE



MICROPOOL DETAILS
H: 1" = 2'

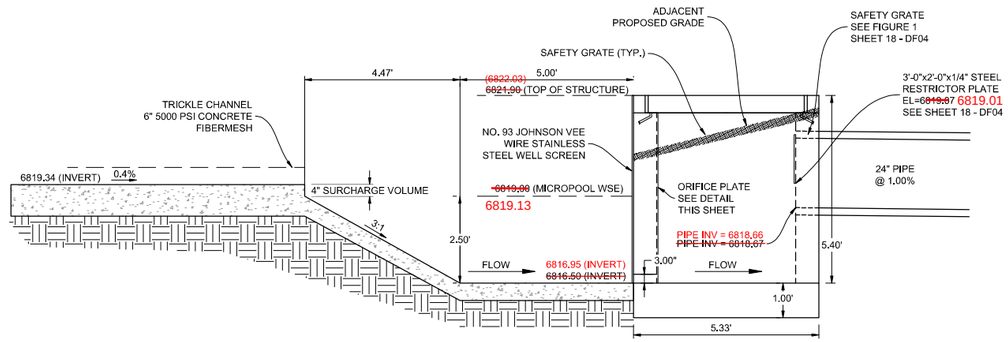


WELL SCREEN DETAILS
H: 1" = 2'



ORIFICE PLATE DETAILS
H: 1" = 2'

SECTION G
NTS



SECTION H
NTS

NOTES:
1. ALL CONCRETE SHALL BE CDOT CLASS D: Fc'= 4500 PSI
2. ALL REINFORCING STEEL SHALL BE Fy: 60 KSI
3. CONCRETE COVER FOR STEEL REINFORCING BARS SHALL BE AS FOLLOWS:
   CONCRETE PLACED AGAINST EARTH..... 3"
   CONCRETE EXPOSED TO EARTH OR WEATHER..... 2"
4. ALL EXPOSED CONCRETE CORNERS SHALL HAVE A MINIMUM ¾" CHAMFER.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AS RELATED TO SHORING AND PROTECTION OF NEW AND EXISTING STRUCTURES AS NECESSARY TO PREVENT DAMAGE OR COLLAPSE DUE TO WIND, EARTH, CONSTRUCTION OR OTHER LOADS.
6. STRUCTURE EXCAVATION AND BACKFILL SHALL BE IN ACCORDANCE WITH CDOT STANDARD PLAN M-206-1.
7. ALL BEDDING SHALL BE A MINIMUM OF 12" THICK CDOT CLASS 6 COMPACTED TO NOT LESS THAN 95% MAXIMUM DENSITY DETERMINED IN CONFORMANCE WITH AASHTO T 180.
8. INLET STEPS SHALL BE ALUMINUM & CONFORM TO CITY OF COLORADO SPRINGS STANDARD DETAIL D-20D.
9. WINGWALLS AND POND STRUCTURE WALLS SHALL BE CONSTRUCTED IN ACCORDANCE WITH CDOT STANDARD M-601-20

PCD FILING NO.: PPR2230

FILE LOCATION: S:\CIRCLE K\HWY 24 & MERIDIAN\DWG\PLAN SET\SITE DEVELOPMENT PLANS\DF01.DWG

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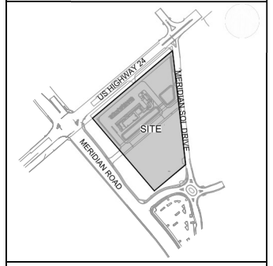
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VICINITY MAP:



PROJECT:

CIRCLE K STORES INC.

100% CONSTRUCTION DOCUMENTS

HIGHWAY 24 & MERIDIAN ROAD
FALCON, CO

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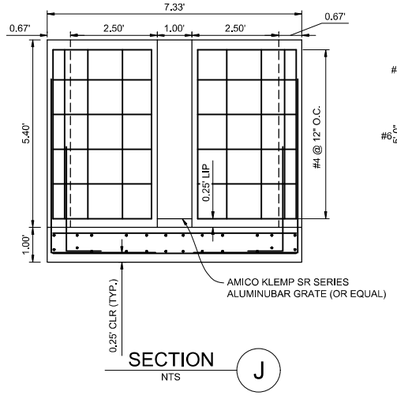
PROJECT NO: 21.1207.037
DRAWN BY: LCB
CHECKED BY: NMS
DESIGNED BY: NMS

SHEET TITLE:

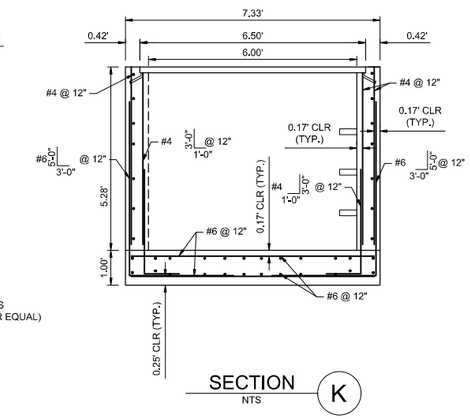
POND DETAILS
AS-BUILTS

SHEET 17 OF 19
DF03

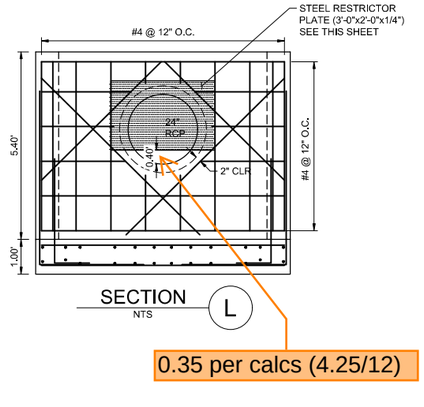
ISSUE DATE: MAY 2024



SECTION J
NTS

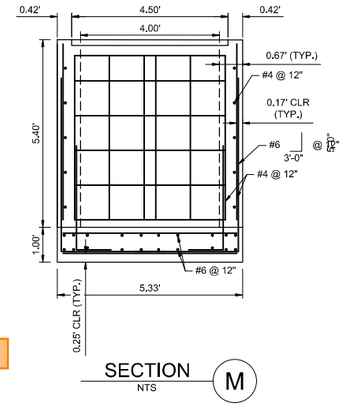


SECTION K
NTS

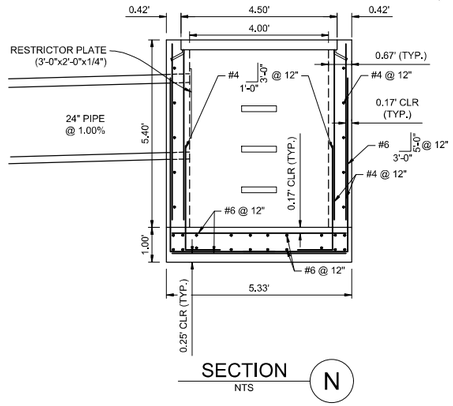


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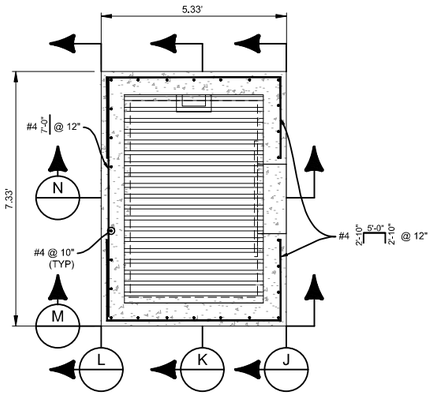
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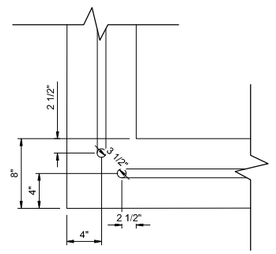
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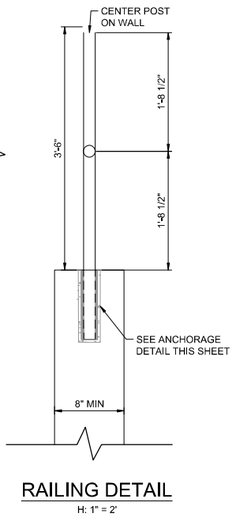
SECTION N
NTS



OUTLET STRUCTURE DETAILS
H: 1" = 2'

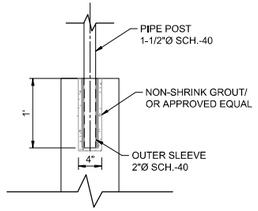


RAIL ANCHORAGE DETAIL
H: 1" = 2'

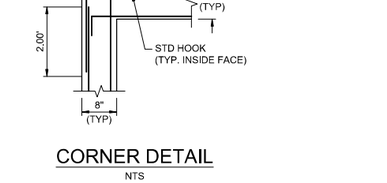


RAILING DETAIL
H: 1" = 2'

℄ PIPE POST



RAIL CORNER DETAIL
H: 1" = 2'



RESTRICTOR PLATE DETAIL
H: 1" = 2'

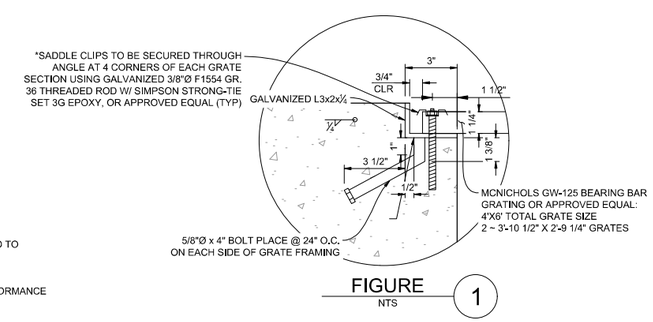
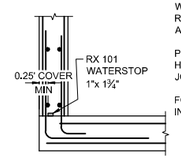


FIGURE 1
NTS



WATERSTOP DETAIL
NTS

WATERSTOP NOTES:

WATERSTOP SHALL BE VOLCLAY WATERSTOP RX 101 OR EARTHSHIELD JP 648 OR APPROVED EQUAL.

PLACE WATERSTOP FOR ENTIRETY OF EACH HORIZONTAL & VERTICAL CONSTRUCTION JOINT.

FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS.

CORNER DETAIL
NTS

NOTES:
1. ALL CONCRETE SHALL BE CDOT CLASS D: Fc'= 4500 PSI
2. ALL REINFORCING STEEL SHALL BE Fy: 60 KSI
3. CONCRETE COVER FOR STEEL REINFORCING BARS SHALL BE AS FOLLOWS:
   CONCRETE PLACED AGAINST EARTH..... 3"
   CONCRETE EXPOSED TO EARTH OR WEATHER..... 2"
4. ALL EXPOSED CONCRETE CORNERS SHALL HAVE A MINIMUM ¾" CHAMFER.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AS RELATED TO SHORING AND PROTECTION OF NEW AND EXISTING STRUCTURES, INTERIM CONDITIONS, TEMPORARY BRACING OR COLLAPSE DUE TO WIND, EARTH, CONSTRUCTION OR OTHER LOADS.
6. STRUCTURE EXCAVATION AND BACKFILL SHALL BE IN ACCORDANCE WITH CDOT STANDARD PLAN M-206-1.
7. ALL BEDDING SHALL BE A MINIMUM OF 12" THICK CDOT CLASS 6 COMPACTED TO NOT LESS THAN 95% MAXIMUM DENSITY DETERMINED IN CONFORMANCE WITH AASHTO T 180.
8. INLET STEPS SHALL BE ALUMINUM & CONFORM TO CITY OF COLORADO SPRINGS STANDARD DETAIL D-20D.
9. WINGWALLS AND POND STRUCTURE WALLS SHALL BE CONSTRUCTED IN ACCORDANCE WITH CDOT STANDARD M-601-20

MICROPOOL DETAILS

PCD FILING NO.: PPR2230

FILE LOCATION: S:\CIRCLE K\HWY 24 & MERIDIAN\DWG\PLAN SETS\SITE DEVELOPMENT PLANS\DF01.DWG

Know what's below. Call before you dig.

CONSULTANTS:

Matrix
Excellence by Design
2435 RESEARCH PARKWAY, SUITE
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PHONE: (719) 575-0100

LAND DEVELOPMENT CONSULTANTS, LLC
950 S. CHERRY ST., SUITE 512
DENVER, CO 80246

OWNER/DEVELOPER:

CIRCLE K
ROCKY MOUNTAINS DIVISION
5500 S QUEBEC STREET, SUITE 100
GREENWOOD VILLAGE, CO 80111
PHONE: (720) 758-6223

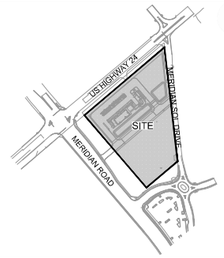
SEAL

COLORADO LICENSED
PROFESSIONAL ENGINEER
NICHOLAS M. SCHLAGEL
PE 52434
05/23/24

FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC

CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE MOST RECENT PROJECT CONSTRUCTION DOCUMENTS. MATRIX DESIGN GROUP IS NOT RESPONSIBLE FOR CHANGES, ALTERATIONS, OR USE OF CONSTRUCTION DOCUMENTS PRIOR TO JURISDICTIONAL APPROVAL.

VICINITY MAP:



PROJECT:

CIRCLE K STORES INC.

100% CONSTRUCTION DOCUMENTS

HIGHWAY 24 & MERIDIAN ROAD
FALCON, CO

REVISION HISTORY:

NO.	DATE	DESCRIPTION	BY
1	09/06/2022	PER REVIEW COMMENTS	
2	09/30/2022	75% CD SUBMITTAL	
3	10/07/2022	100% CD SUBMITTAL	
4	12/02/2022	CD 1ST RE-SUBMITTAL	
5	01/19/2023	CD 2ND RE-SUBMITTAL	

DRAWING INFORMATION:

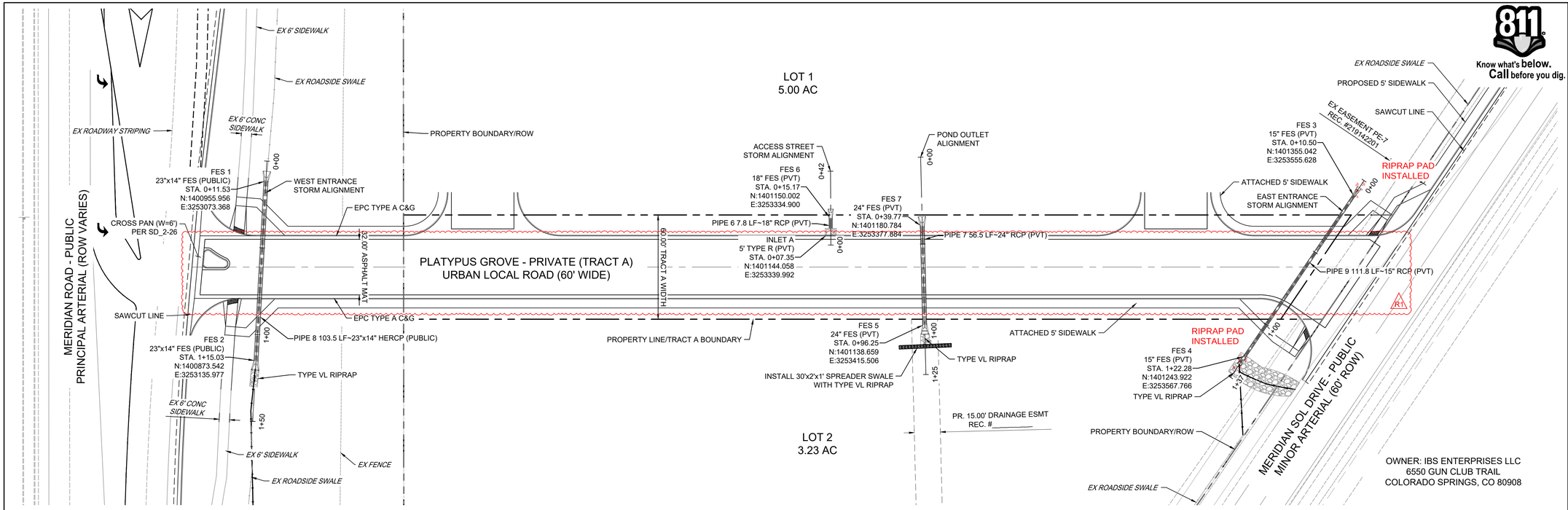
PROJECT NO: 21.1207.037
DRAWN BY: LCB
CHECKED BY: NMS
DESIGNED BY: NMS

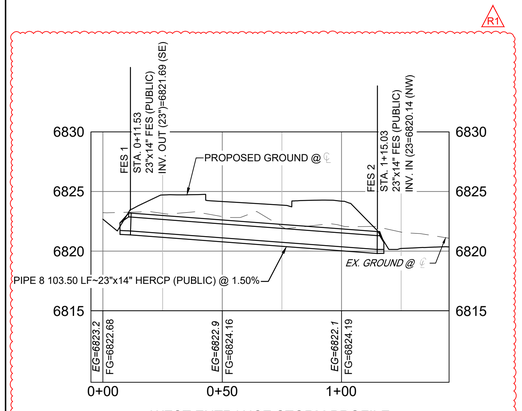
SHEET TITLE:

POND DETAILS
AS-BUILTS

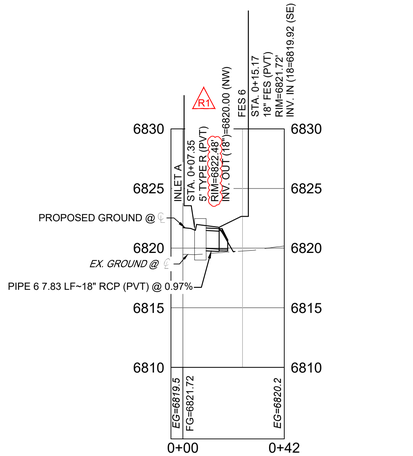
SHEET 18 OF 19
DF04

ISSUE DATE: MAY 2024

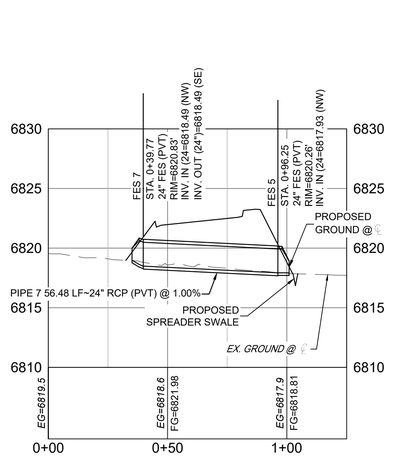




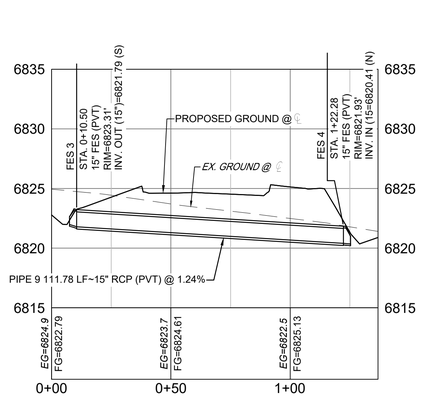
WEST ENTRANCE STORM PROFILE
SCALE: (H) 1" = 30' (V) 1" = 6'
START STA: -0+05.00, END STA: 1+45.09



ACCESS STREET STORM PROFILE
SCALE: (H) 1" = 30' (V) 1" = 6'
START STA: -0+05.00, END STA: 0+42.50



POND OUTLET PROFILE
SCALE: (H) 1" = 30' (V) 1" = 6'
START STA: 0+00.00, END STA: 1+25.10



EAST ENTRANCE STORM PROFILE
SCALE: (H) 1" = 30' (V) 1" = 6'
START STA: 0+00.00, END STA: 1+36.82

STRUCTURE TABLE			
NAME	TYPE	DETAILS	N & E
FES 1	23"x14" FES (PUBLIC)	RIM = 6823.27 PIPE 8 INV OUT (23") = 6821.69	N: 1400955.96 E: 3253073.37
FES 2	23"x14" FES (PUBLIC)	RIM = 6821.72 PIPE 8 INV IN (23") = 6820.14	N: 1400873.54 E: 3253135.98
FES 3	15" FES (PVT)	RIM = 6823.31 PIPE 9 INV OUT (15") = 6821.79	N: 1401355.04 E: 3253555.63
FES 4	15" FES (PVT)	RIM = 6821.93 PIPE 9 INV IN (15") = 6820.41	N: 1401243.92 E: 3253567.77
FES 5	24" FES (PVT)	RIM = 6820.26 PIPE 7 INV IN (24") = 6817.93	N: 1401138.66 E: 3253415.51
FES 6	18" FES (PVT)	RIM = 6821.72 PIPE 6 INV IN (18") = 6819.92	N: 1401150.00 E: 3253334.90
FES 7	24" FES (PVT)	RIM = 6820.83 PIPE 12 INV IN (24") = 6818.49 PIPE 7 INV OUT (24") = 6818.49	N: 1401180.78 E: 3253377.88
INLET A	5' TYPE R (PVT)	RIM = 6822.48 PIPE 6 INV OUT (18") = 6820.00	N: 1401144.06 E: 3253339.99

PIPE TABLE				
PIPE NAME	BEARING	LENGTH	SLOPE	SIZE
PIPE 6	N40°35'14"W	7.8'	0.97%	18" RCP (PVT)
PIPE 7	S41°46'04"E	56.5'	1.00%	24" RCP (PVT)
PIPE 8	S37°13'23"E	103.5'	1.50%	23"x14" HERCP (PUBLIC)
PIPE 9	S06°14'02"E	111.8'	1.24%	15" RCP (PVT)

NOTES:
1. ALL STATION, OFFSET, NORTHING AND EASTING VALUES ARE TO THE CENTER OF ALL STRUCTURES UNLESS OTHERWISE NOTED.
2. PIPE LENGTHS ARE MEASURED FROM CENTER TO CENTER OF ALL STRUCTURES.
3. CONTRACTOR TO FIELD VERIFY HORIZONTAL AND VERTICAL LOCATION OF EXISTING STRUCTURES.
4. ALL RCP PIPE SHALL BE CLASS III UNLESS OTHERWISE NOTED.
5. PIPES OF DIFFERENT SIZES ARE TO BE MATCHED TO THE CROWN OF THE INSIDE WALL OF PIPE.
6. PER THE EL PASO COUNTY ENGINEERING CRITERIA MANUAL, MANHOLES SHALL BE INSTALLED 1/8" BELOW THE SURFACE OF THE PAVEMENT ON THE LOWEST SIDE OF THE MANHOLE.
7. TOP OF BOX ELEVATIONS GIVEN FOR CDOT TYPE R INLETS REFER TO THE COUNTY STANDARD DETAIL FOR CORRESPONDING DESIGN ELEVATIONS.

GRAPHIC SCALE
30' 0' 30' 60'
(IN FEET)
1 inch = 30 ft.

PCD FILING NO.: VR-22-03

FILE LOCATION: S:\CIRCLE K\HWY 24 & MERIDIAN\DWG\PLAN SETS\OFF-SITE CDS\SD01.DWG

CONSULTANTS:

Matrix
2435 RESEARCH PARKWAY, SUITE 300 COLORADO SPRINGS, CO 80920
PHONE: (719) 575-0100

LAND DEVELOPMENT CONSULTANTS, LLC
950 S. CHERRY ST., SUITE 512
DENVER, CO 80246

OWNER/DEVELOPER:

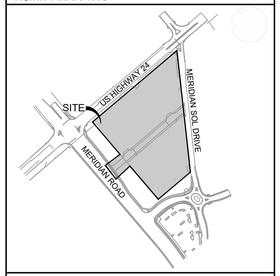
CIRCLE K
ROCKY MOUNTAINS DIVISION
5500 S QUEBEC STREET, SUITE 100
GREENWOOD VILLAGE, CO 80111
PHONE: (720) 758-6223

SEAL

COLORADO LICENSED
NICOLE M. SCHMIDT
62434
PROFESSIONAL ENGINEER

FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC
CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE MOST RECENT PROJECT CONSTRUCTION DOCUMENTS. MATRIX DESIGN GROUP IS NOT RESPONSIBLE FOR CHANGES, ALTERATIONS, OR USE OF CONSTRUCTION DOCUMENTS PRIOR TO JURISDICTIONAL APPROVAL.

VICINITY MAP: NTS



PROJECT:

CIRCLE K STORES INC.

FINAL PLAT OFFSITE CDS

CIRCLE K - US24 & MERIDIAN
FALCON, CO

REVISION HISTORY:

NO.	DATE	DESCRIPTION	BY
R1	07/16/2025	REVISED ACCESS ROAD DESIGN	LCB

DRAWING INFORMATION:

PROJECT NO: 21.1207.037
DRAWN BY: RPD
CHECKED BY: NMS
DESIGNED BY: NMS

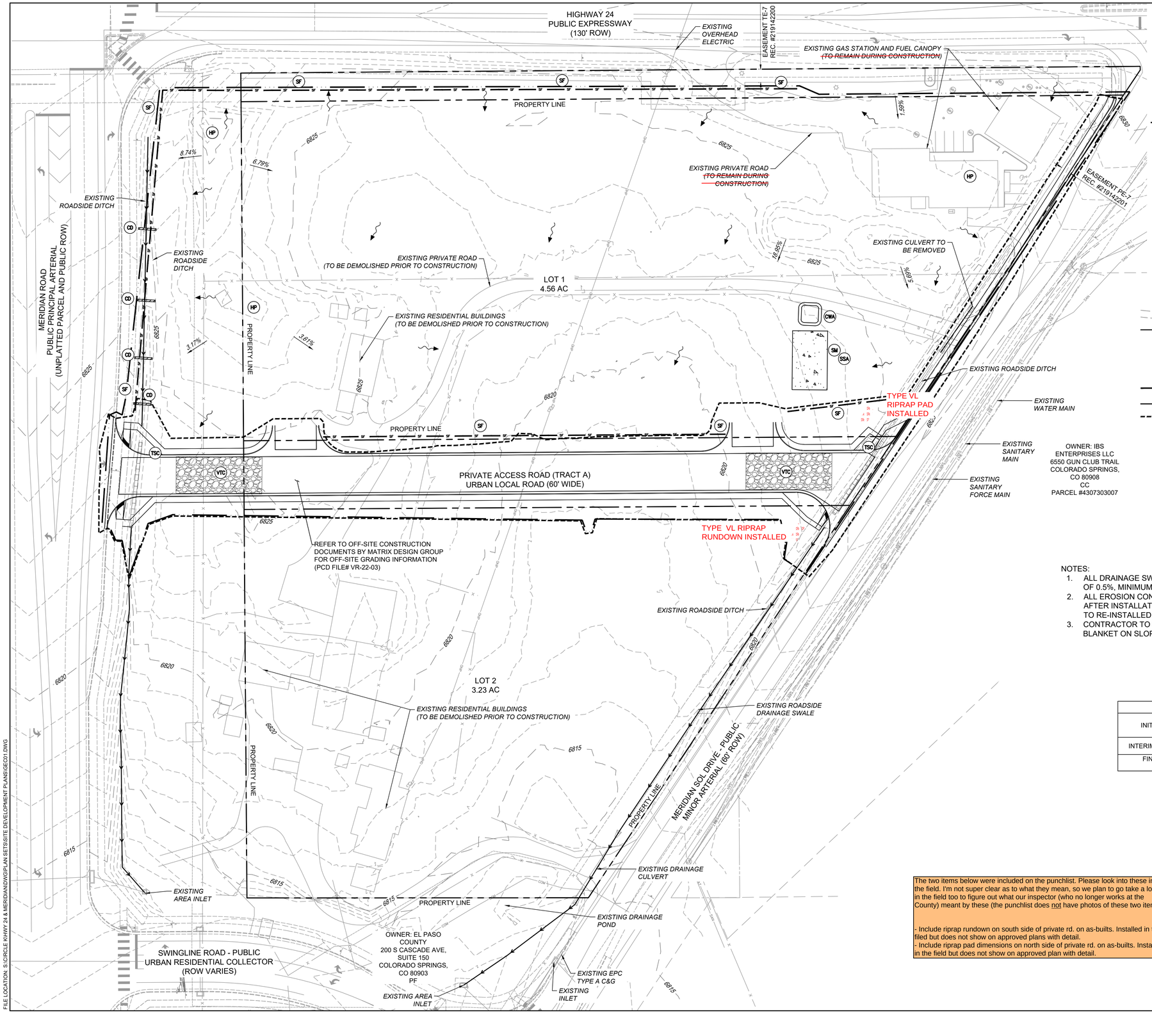
SHEET TITLE:

STORM DRAIN PLAN & PROFILE

AS-BUILTS

SHEET 10 OF 14
SD01

ISSUE DATE: JANUARY 2023



EROSION CONTROL LEGEND

SF	SF	SILT FENCE
SCL	SCL	SEDIMENT CONTROL LOG
CD	CD	CHECK DAM
VTC	VTC	VEHICLE TRACKING CONTROL
TSC	TSC	TEMPORARY STREAM CROSSING
CWA	CWA	CONCRETE WASHOUT
SM	SSA	STOCKPILE MANAGEMENT / STABILIZED STAGING AREA
CIP	OP	CULVERT INLET PROTECTION / OUTLET PROTECTION
HP	LP	HIGH POINT / LOW POINT
5975		EXISTING CONTOURS
		DRAINAGE SWALE
2%		SLOPE LABEL
		OVERLAND FLOW
		OVERFLOW ROUTE
		LIMITS OF DISTURBANCE/ CONSTRUCTION SITE BOUNDARY
		PROPERTY LINE
		OFFSITE CONSTRUCTION LIMITS (SEE PCD FILE #VR-22-03)

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

NOTES:
1. ALL DRAINAGE SWALES SHALL HAVE A MINIMUM LONGITUDINAL SLOPE OF 0.5%, MINIMUM 1.5' DEPTH, AND MAXIMUM 3:1 SIDE SLOPES.
2. ALL EROSION CONTROL BLANKET SHALL BE INSPECTED 24-MONTHS AFTER INSTALLATION. EROSION CONTROL BLANKET MAY BE REQUIRED TO RE-INSTALLED PER MANUFACTURER SPECIFICATIONS.
3. CONTRACTOR TO USE SLOPE TRACKING OR EROSION CONTROL BLANKET ON SLOPES 3:1 OR GREATER

BMP SEQUENCING	
INITIAL	SILT FENCE, CONSTRUCTION FENCE, VEHICLE TRACKING, TEMP STREAM CROSSINGS, CHECK DAMS
INTERIM/FINAL	SEDIMENT CONTROL LOGS, INLET PROTECTION, STOCKPILES, STAGING
FINAL	EROSION CONTROL BLANKETS, SEEDING & MULCHING

The two items below were included on the punchlist. Please look into these in the field. I'm not super clear as to what they mean, so we plan to go take a look in the field too to figure out what our inspector (who no longer works at the County) meant by these (the punchlist does not have photos of these two items).

- Include riprap rundown on south side of private rd. on as-builts. Installed in the filed but does not show on approved plans with detail.
- Include riprap pad dimensions on north side of private rd. on as-builts. Installed in the field but does not show on approved plan with detail.

N

GRAPHIC SCALE
40' 0' 40' 80'
(IN FEET)
1 inch = 40 ft.

PCD FILING NO.: PPR2230

FILE LOCATION: S:\CIRCLE K\HWY 24 & MERIDIAN\DWG\PLAN SETS\SITE DEVELOPMENT PLANS\GEC01.DWG

CONSULTANTS:

Matrix
Excellence by Design
2435 RESEARCH PARKWAY, SUITE 300 COLORADO SPRINGS, CO 80920
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LAND DEVELOPMENT CONSULTANTS, LLC
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DENVER, CO 80246

OWNER/DEVELOPER:

CIRCLE K
ROCKY MOUNTAINS DIVISION
5500 S QUEBEC STREET, SUITE 100
GREENWOOD VILLAGE, CO 80111
PHONE: (720) 758-6223

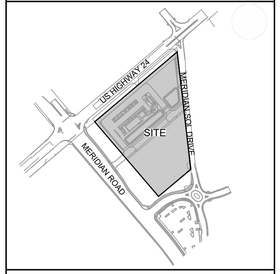
SEAL

COLORADO LICENSED
NICOLE M. SCHWEYEN
52434
PROFESSIONAL ENGINEER

FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC

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VICINITY MAP:



PROJECT:

CIRCLE K STORES INC.

GRADING & EROSION CONTROL PLANS
HIGHWAY 24 & MERIDIAN ROAD
FALCON, CO

REVISION HISTORY:

NO.	DATE	DESCRIPTION	BY

DRAWING INFORMATION:

PROJECT NO: 21.1207.037
DRAWN BY: LCB
CHECKED BY: NMS
DESIGNED BY: NMS

SHEET TITLE:

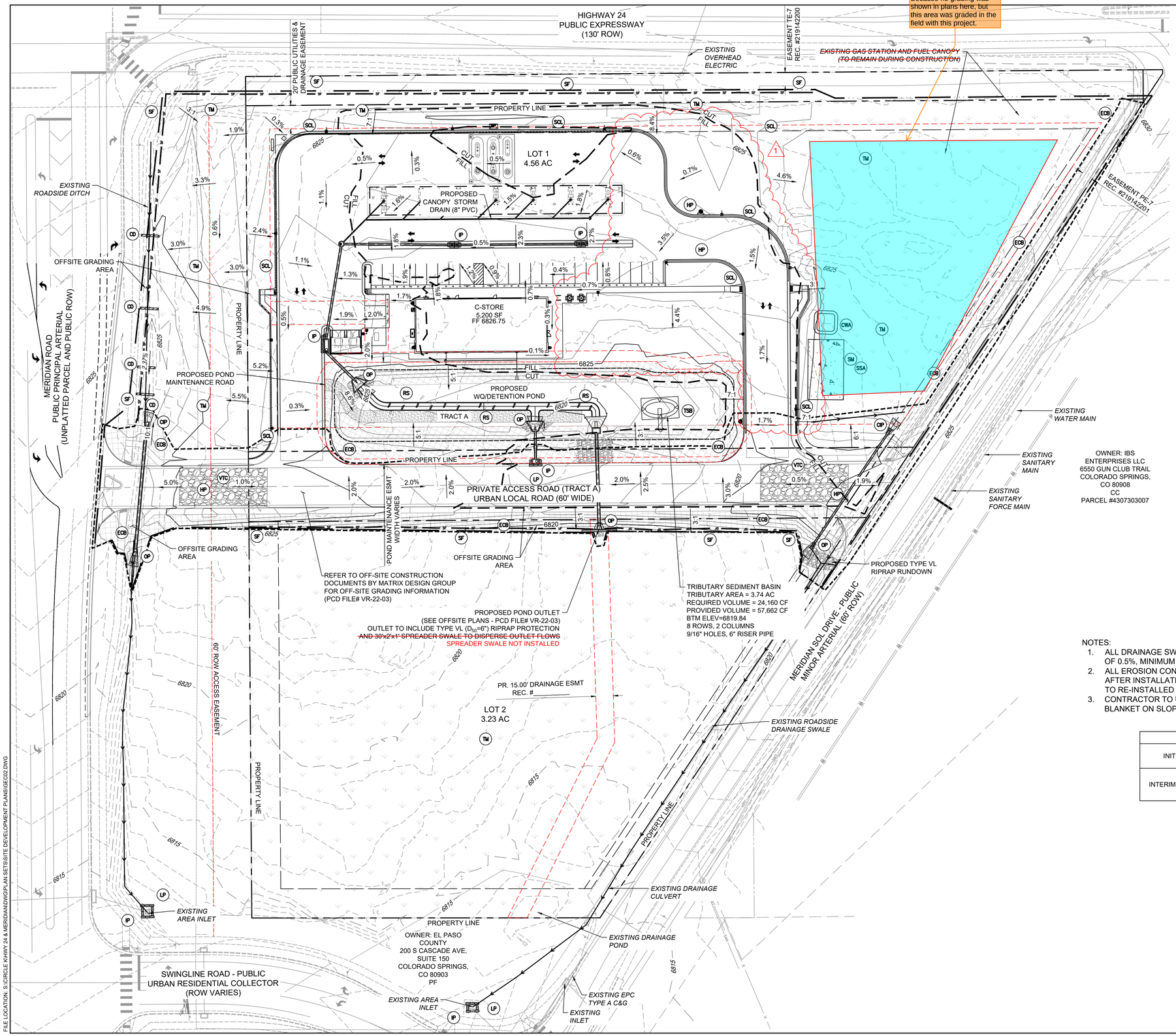
INITIAL GRADING & EROSION CONTROL PLAN

AS-BUILTS

SHEET 3 OF 7
GEC01

ISSUE DATE: JANUARY 2023

Please as-built the grading in this area and make sure the drainage doesn't differ from the original design. Because no grading was shown in plans here, but this area was graded in the field with this project.



EROSION CONTROL LEGEND

ST		SLOPE TRACKING
SR		SURFACE ROUGHENING
SF	SF	SILT FENCE
ECB		EROSION CONTROL BLANKET
TM		TEMPORARY MULCHING AND SEEDING
SCL		SEDIMENT CONTROL LOG
CD		CHECK DAM
RS		ROCK SOCK
VTC		VEHICLE TRACKING CONTROL
TSB		TEMPORARY SEDIMENT BASIN
CWA		CONCRETE WASHOUT
SM	SSA	STOCKPILE MANAGEMENT / STABILIZED STAGING AREA
CIP	OP	CULVERT INLET PROTECTION / OUTLET PROTECTION
IP		INLET PROTECTION
HP	LP	HIGH POINT / LOW POINT
7050		PROPOSED CONTOURS
5975		EXISTING CONTOURS
		DRAINAGE SWALE
4:1		SLOPE LABEL
		OVERLAND FLOW
		LIMITS OF DISTURBANCE/ CONSTRUCTION SITE BOUNDARY
		PROPERTY LINE
		OVERFLOW ROUTE
		CUT / FILL LINE
		PROPOSED EASEMENT
		OFFSITE CONSTRUCTION LIMITS (SEE PCD FILE #VR-22-03)

NOTES:
1. ALL DRAINAGE SWALES SHALL HAVE A MINIMUM LONGITUDINAL SLOPE OF 0.5%, MINIMUM 1.5' DEPTH, AND MAXIMUM 3:1 SIDE SLOPES.
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3. CONTRACTOR TO USE SLOPE TRACKING OR EROSION CONTROL BLANKET ON SLOPES 3:1 OR GREATER

BMP SEQUENCING	
INITIAL	SILT FENCE, CONSTRUCTION FENCE, VEHICLE TRACKING, TEMP STREAM CROSSINGS, CHECK DAMS
INTERIM / FINAL	SEDIMENT CONTROL LOGS, INLET PROTECTION, STOCKPILES, STAGING, EROSION CONTROL BLANKETS, SEEDING & MULCHING

GRAPHIC SCALE
40' 0' 40' 80'
(IN FEET)
1 inch = 40 ft.

PCD FILING NO.: PPR2230

Know what's below. Call before you dig.

CONSULTANTS:

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LAND DEVELOPMENT CONSULTANTS, LLC
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DENVER, CO 80246

OWNER:

CST METRO, LLC
19500 BULVERDE ROAD, SUITE 100
SAN ANTONIO TX, 78259
PHONE: (720) 758-6223

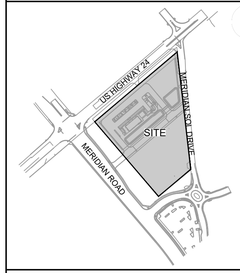
SEAL

COLORADO LICENSED
NICOLE W. SCHWEIZER
62434
06/02/2025
PROFESSIONAL ENGINEER

FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC

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VICINITY MAP:



PROJECT:

CIRCLE K STORES INC.

GRADING & EROSION CONTROL PLANS
HIGHWAY 24 & MERIDIAN ROAD
FALCON, CO

REVISION HISTORY:

NO.	DATE	DESCRIPTION	BY
1	06/02/2025	CD ADDENDUM 1	

DRAWING INFORMATION:

PROJECT NO: 21.1207.037
DRAWN BY: LCB
CHECKED BY: NMS
DESIGNED BY: NMS

SHEET TITLE:

INTERIM/FINAL GRADING & EROSION CONTROL PLAN

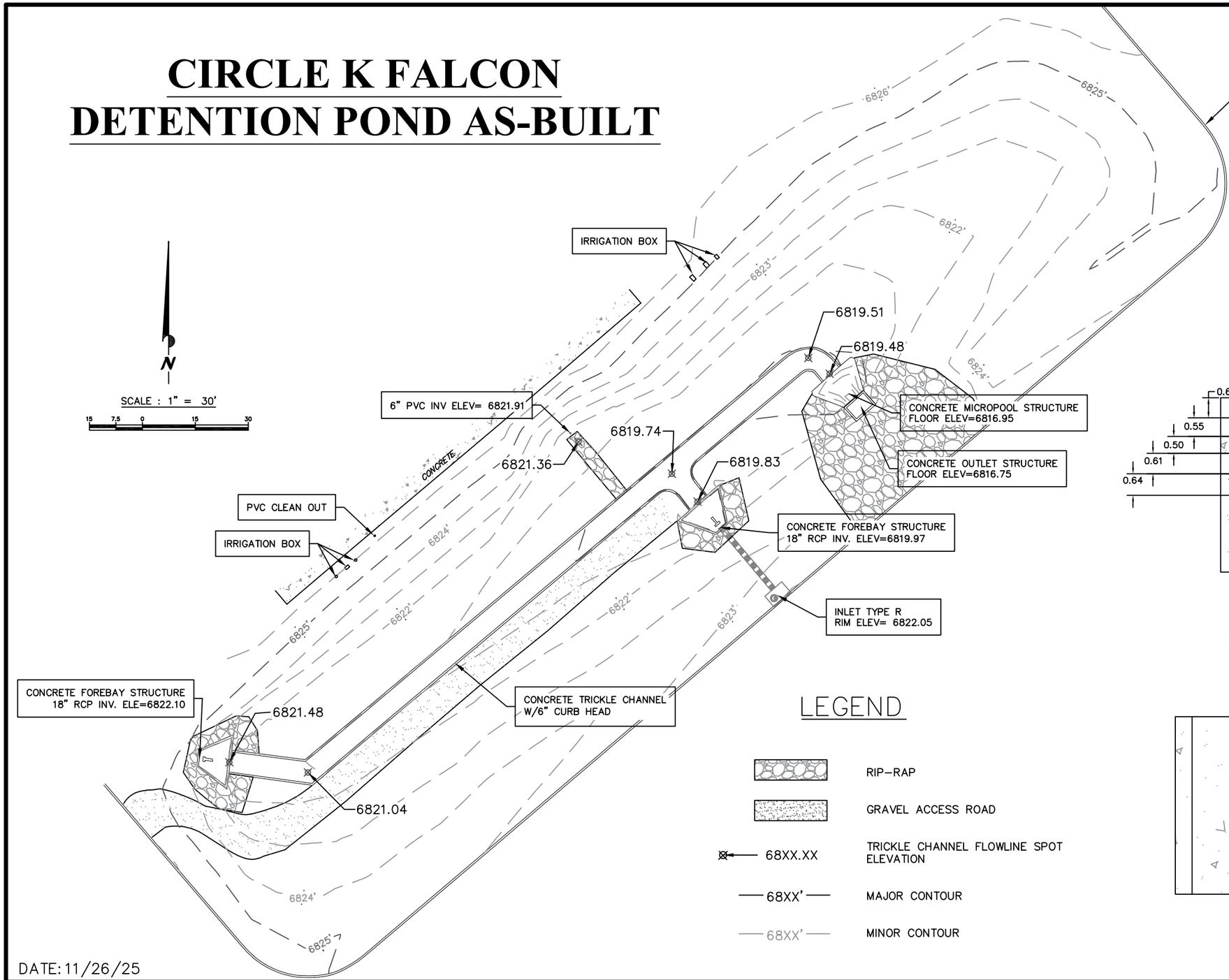
AS-BUILTS

SHEET 4 OF 7
GEC02

ISSUE DATE: MARCH 2024

FILE LOCATION: S:\CIRCLE K\HWY 24 & MERIDIAN\DWG\PLAN SETS\SITE DEVELOPMENT PLANS\GEC02.DWG

CIRCLE K FALCON
DETENTION POND AS-BUILT



N

SCALE : 1" = 30'

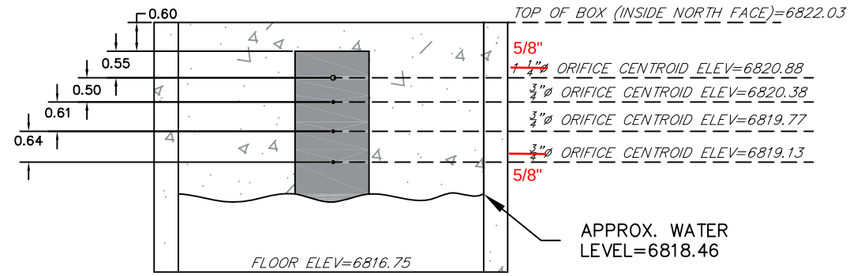
15 7.5 0 15 30

LEGEND

	RIP–RAP
	GRAVEL ACCESS ROAD
68XX.XX	TRICKLE CHANNEL FLOWLINE SPOT ELEVATION
68XX'	MAJOR CONTOUR
68XX'	MINOR CONTOUR

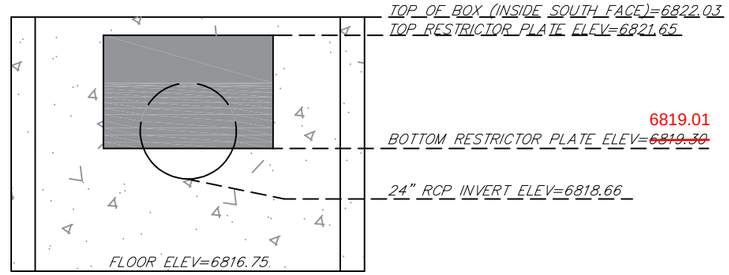
ORIFICE PLATE DETAIL

N.T.S.



RESTRICTOR PLATE DETAIL

N.T.S.



DATE: 11/26/25

CIRCLE K FALCON
HIGHWAY 24 & MERIDIAN ROAD – FALCON, COLORADO

POLARIS SURVEYING, INC.
1903 Lelaray Street, Suite 102
COLORADO SPRINGS, CO 80909
(719)448–0844 FAX (719)448–9225

N

SCALE 1" = 30'

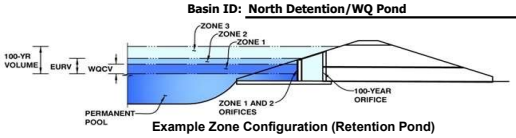
COPESTONE

DETENTION BASIN STAGE-STORAGE TABLE BUILDER

MHFD-Detention, Version 4.04 (February 2021)

Project: Circle K at Highway 24 & Meridian AS-BUILTS

Basin ID: North Detention/WQ Pond



Example Zone Configuration (Retention Pond)

Watershed Information

Selected BMP Type =	EDB	
Watershed Area =	3.79	acres
Watershed Length =	450	ft
Watershed Length to Centroid =	150	ft
Watershed Slope =	0.020	ft/ft
Watershed Imperviousness =	64.30%	percent
Percentage Hydrologic Soil Group A =	100.0%	percent
Percentage Hydrologic Soil Group B =	0.0%	percent
Percentage Hydrologic Soil Groups C/D =	0.0%	percent
Target WQCV Drain Time =	40.0	hours
Location for 1-hr Rainfall Depths =	User Input	

After providing required inputs above including 1-hour rainfall depths, click 'Run CUHP' to generate runoff hydrographs using the embedded Colorado Urban Hydrograph Procedure.

			Optional User Overrides
Water Quality Capture Volume (WQCV) =	0.079	acre-feet	acre-feet
Excess Urban Runoff Volume (EURV) =	0.301	acre-feet	acre-feet
2-yr Runoff Volume (P1 = 1.19 in.) =	0.205	acre-feet	1.19 inches
5-yr Runoff Volume (P1 = 1.5 in.) =	0.269	acre-feet	1.50 inches
10-yr Runoff Volume (P1 = 1.75 in.) =	0.320	acre-feet	1.75 inches
25-yr Runoff Volume (P1 = 2 in.) =	0.387	acre-feet	2.00 inches
50-yr Runoff Volume (P1 = 2.25 in.) =	0.453	acre-feet	2.25 inches
100-yr Runoff Volume (P1 = 2.52 in.) =	0.533	acre-feet	2.52 inches
500-yr Runoff Volume (P1 = 3.55 in.) =	0.829	acre-feet	3.55 inches
Approximate 2-yr Detention Volume =	0.196	acre-feet	
Approximate 5-yr Detention Volume =	0.256	acre-feet	
Approximate 10-yr Detention Volume =	0.309	acre-feet	
Approximate 25-yr Detention Volume =	0.372	acre-feet	
Approximate 50-yr Detention Volume =	0.410	acre-feet	
Approximate 100-yr Detention Volume =	0.450	acre-feet	

Define Zones and Basin Geometry

Zone 1 Volume (WQCV) =	0.079	acre-feet
Zone 2 Volume (EURV - Zone 1) =	0.222	acre-feet
Zone 3 Volume (100-year - Zones 1 & 2) =	0.149	acre-feet
Total Detention Basin Volume =	0.450	acre-feet
Initial Surcharge Volume (ISV) =	user	ft^3
Initial Surcharge Depth (ISD) =	user	ft
Total Available Detention Depth (H_{total}) =	user	ft
Depth of Trickle Channel (H_{TC}) =	user	ft
Slope of Trickle Channel (S_{TC}) =	user	ft/ft
Slopes of Main Basin Sides (S_{main}) =	user	H:V
Basin Length-to-Width Ratio ($R_{L/W}$) =	user	

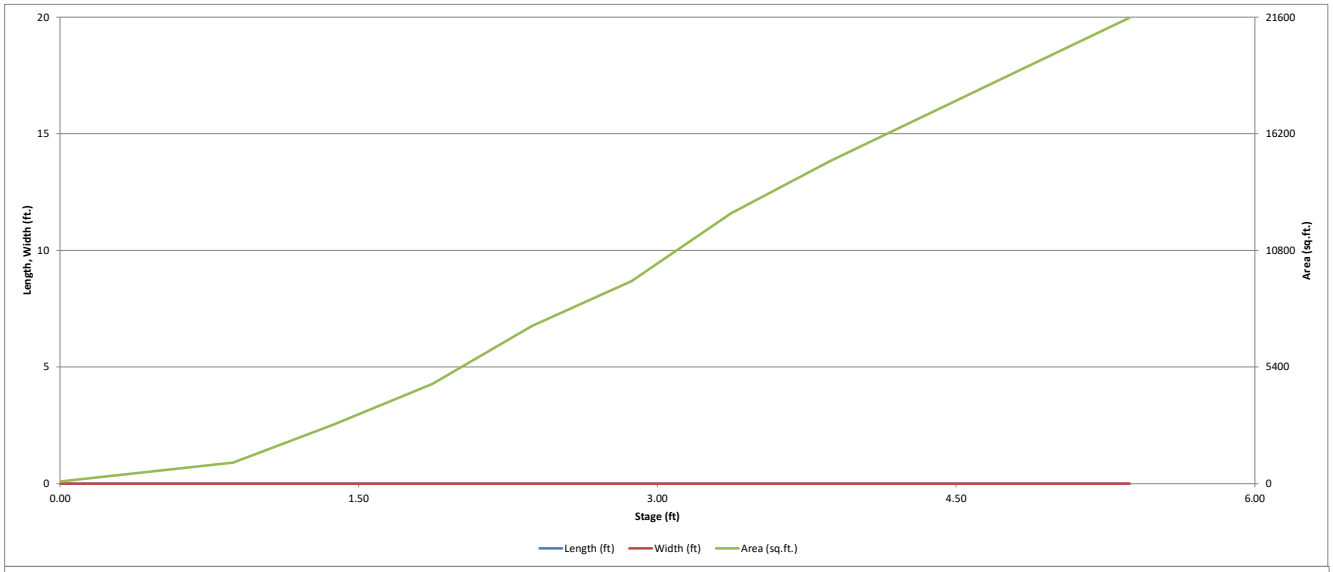
Initial Surcharge Area (A_{ISV}) =	user	ft^2
Surcharge Volume Length (L_{ISV}) =	user	ft
Surcharge Volume Width (W_{ISV}) =	user	ft
Depth of Basin Floor (H_{FLOOR}) =	user	ft
Length of Basin Floor (L_{FLOOR}) =	user	ft
Width of Basin Floor (W_{FLOOR}) =	user	ft
Area of Basin Floor (A_{FLOOR}) =	user	ft^2
Volume of Basin Floor (V_{FLOOR}) =	user	ft^3
Depth of Main Basin (H_{MAIN}) =	user	ft
Length of Main Basin (L_{MAIN}) =	user	ft
Width of Main Basin (W_{MAIN}) =	user	ft
Area of Main Basin (A_{MAIN}) =	user	ft^2
Volume of Main Basin (V_{MAIN}) =	user	ft^3
Calculated Total Basin Volume (V_{total}) =	**user**	acre-feet

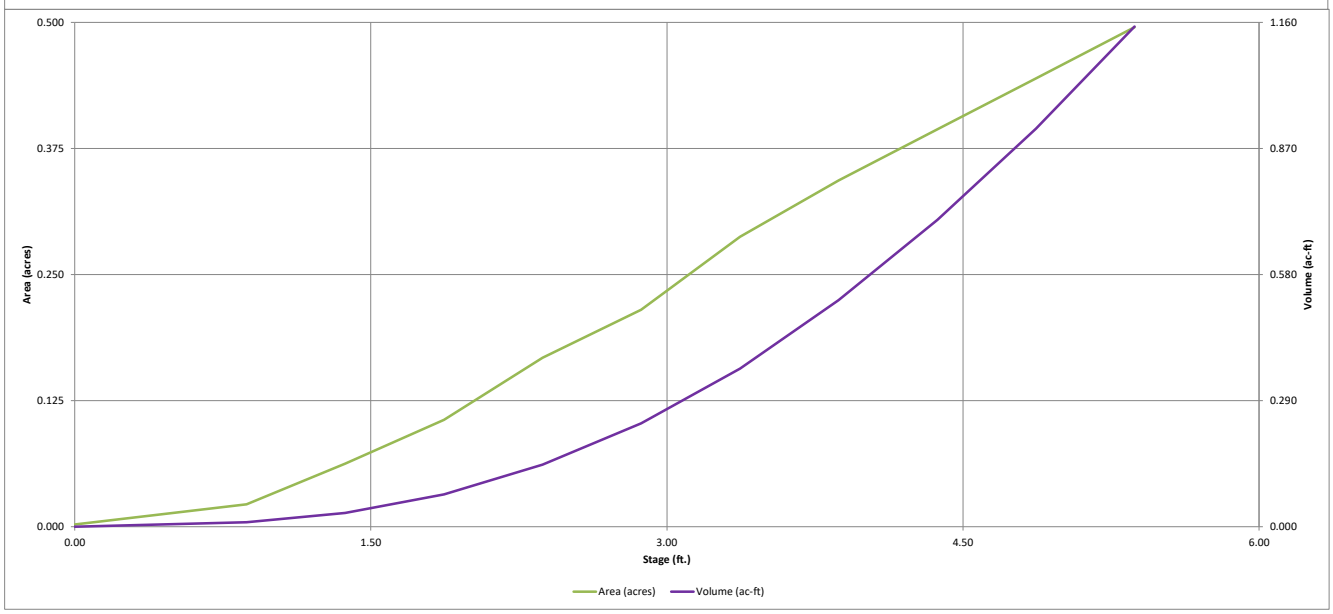
Depth Increment = 0.50 ft

Stage - Storage Description	Stage (ft)	Optional Override Stage (ft)	Length (ft)	Width (ft)	Area (ft^2)	Optional Override Area (ft^2)	Area (acre)	Volume (ft^3)	Volume (ac-ft)
Top of Micropool	--	0.00	--	--	--	104	0.002		
6,820.00	--	0.87	--	--	--	972	0.022	468	0.011
6,820.50	--	1.37	--	--	--	2,720	0.062	1,391	0.032
6,821.00	--	1.87	--	--	--	4,622	0.106	3,227	0.074
6,821.50	--	2.37	--	--	--	7,294	0.167	6,206	0.142
6,822.00	--	2.87	--	--	--	9,373	0.215	10,372	0.238
6,822.50	--	3.37	--	--	--	12,523	0.287	15,846	0.364
6,823.00	--	3.87	--	--	--	14,953	0.343	22,715	0.521
6,823.50	--	4.37	--	--	--	17,162	0.394	30,744	0.706
6,824.00	--	4.87	--	--	--	19,362	0.444	39,875	0.915
6,824.50	--	5.37	--	--	--	21,576	0.495	50,109	1.150

DETENTION BASIN STAGE-STORAGE TABLE BUILDER

MHFD-Detention, Version 4.04 (February 2021)





✓ = calcs match details in plans

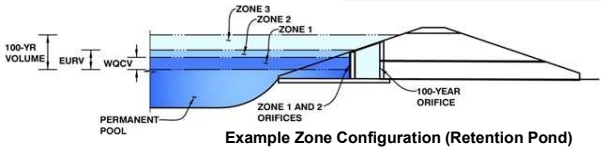
X = calcs do not match details in plans

DETENTION BASIN OUTLET STRUCTURE DESIGN

MHFD-Detention, Version 4.04 (February 2021)

Project: **Circle K at Highway 24 & Meridian AS-BUILTS**

Basin ID: **North Detention/WQ Pond**



Example Zone Configuration (Retention Pond)

	Estimated Stage (ft)	Estimated Volume (ac-ft)	Outlet Type
Zone 1 (WQCV)	1.92	0.079	Orifice Plate
Zone 2 (EURV)	3.15	0.222	Circular Orifice
Zone 3 (100-year)	3.66	0.149	Weir&Pipe (Restrict)
Total (all zones)		0.450	

User Input: Orifice at Underdrain Outlet (typically used to drain WQCV in a Filtration BMP)

Underdrain Orifice Invert Depth =	N/A	ft (distance below the filtration media surface)	Underdrain Orifice Area =	N/A	ft²
Underdrain Orifice Diameter =	N/A	inches	Underdrain Orifice Centroid =	N/A	feet

Calculated Parameters for Underdrain

User Input: Orifice Plate with one or more orifices or Elliptical Slot Weir (typically used to drain WQCV and/or EURV in a sedimentation BMP)

Invert of Lowest Orifice =	0.00	ft (relative to basin bottom at Stage = 0 ft)	WQ Orifice Area per Row =	N/A	ft²
Depth at top of Zone using Orifice Plate =	1.92	ft (relative to basin bottom at Stage = 0 ft)	Elliptical Half-Width =	N/A	feet
Orifice Plate: Orifice Vertical Spacing =	N/A	inches	Elliptical Slot Centroid =	N/A	feet
Orifice Plate: Orifice Area per Row =	N/A	inches	Elliptical Slot Area =	N/A	ft²

Calculated Parameters for Plate

User Input: Stage and Total Area of Each Orifice Row (numbered from lowest to highest)

	Row 1 (required)	Row 2 (optional)	Row 3 (optional)	Row 4 (optional)	Row 5 (optional)	Row 6 (optional)	Row 7 (optional)	Row 8 (optional)
Stage of Orifice Centroid (ft)	✓ 0.00	X 0.64	✓ 1.14					
Orifice Area (sq. inches)	✓ 0.30	✓ 0.44	✓ 0.44					

	Row 9 (optional)	Row 10 (optional)	Row 11 (optional)	Row 12 (optional)	Row 13 (optional)	Row 14 (optional)	Row 15 (optional)	Row 16 (optional)
Stage of Orifice Centroid (ft)								
Orifice Area (sq. inches)								

User Input: Vertical Orifice (Circular or Rectangular)

	Zone 2 Circular	Not Selected			Zone 2 Circular	Not Selected	
Invert of Vertical Orifice =	✓ 1.75	N/A	ft (relative to basin bottom at Stage = 0 ft)	Vertical Orifice Area =	0.00	N/A	ft²
Depth at top of Zone using Vertical Orifice =	3.15	N/A	ft (relative to basin bottom at Stage = 0 ft)	Vertical Orifice Centroid =	0.03	N/A	feet
Vertical Orifice Diameter =	✓ 0.60	N/A	inches				

this should be red too, original design value was 2.78

Calculated Parameters for Vertical Orifice

User Input: Overflow Weir (Dropbox with Flat or Sloped Grate and Outlet Pipe OR Rectangular/Trapezoidal Weir (and No Outlet Pipe)

	Zone 3 Weir	Not Selected			Zone 3 Weir	Not Selected	
Overflow Weir Front Edge Height, Ho =	✓ 2.90	N/A	ft (relative to basin bottom at Stage = 0 ft)	Height of Grate Upper Edge, H_t =	2.90	N/A	feet
Overflow Weir Front Edge Length =	✓ 6.00	N/A	feet	Overflow Weir Slope Length =	4.00	N/A	feet
Overflow Weir Grate Slope =	✓ 0.00	N/A	H:V	Grate Open Area / 100-yr Orifice Area =	50.54	N/A	
Horiz. Length of Weir Sides =	✓ 4.00	N/A	feet	Overflow Grate Open Area w/o Debris =	18.98	N/A	ft²
Overflow Grate Type =	Close Mesh Grate	N/A		Overflow Grate Open Area w/ Debris =	9.49	N/A	ft²
Debris Clogging % =	50%	N/A	%				

Calculated Parameters for Overflow Weir

User Input: Outlet Pipe w/ Flow Restriction Plate (Circular Orifice, Restrictor Plate, or Rectangular Orifice)

	Zone 3 Restrictor	Not Selected			Zone 3 Restrictor	Not Selected	
Depth to Invert of Outlet Pipe =	✓ 0.47	N/A	ft (distance below basin bottom at Stage = 0 ft)	Outlet Orifice Area =	0.38	N/A	ft²
Outlet Pipe Diameter =	✓ 24.00	N/A	inches	Outlet Orifice Centroid =	0.21	N/A	feet
Restrictor Plate Height Above Pipe Invert =	✓ 4.25		inches	Half-Central Angle of Restrictor Plate on Pipe =	0.87	N/A	radians

Calculated Parameters for Outlet Pipe w/ Flow Restriction Plate

User Input: Emergency Spillway (Rectangular or Trapezoidal)

Spillway Invert Stage=	✓ 3.37	ft (relative to basin bottom at Stage = 0 ft)	Spillway Design Flow Depth=	0.19	feet
Spillway Crest Length =	X 45.00	feet	Stage at Top of Freeboard =	4.56	feet
Spillway End Slopes =	X 4.00	H:V	Basin Area at Top of Freeboard =	0.41	acres
Freeboard above Max Water Surface =	✓ 1.00	feet	Basin Volume at Top of Freeboard =	0.78	acre-ft

Calculated Parameters for Spillway

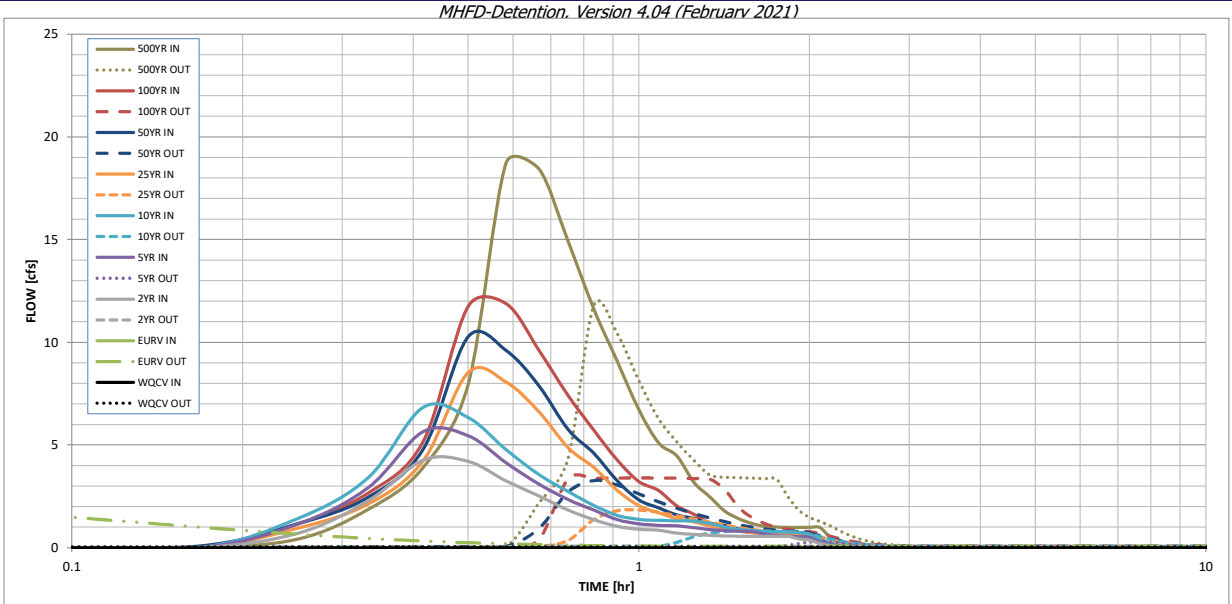
Routed Hydrograph Results

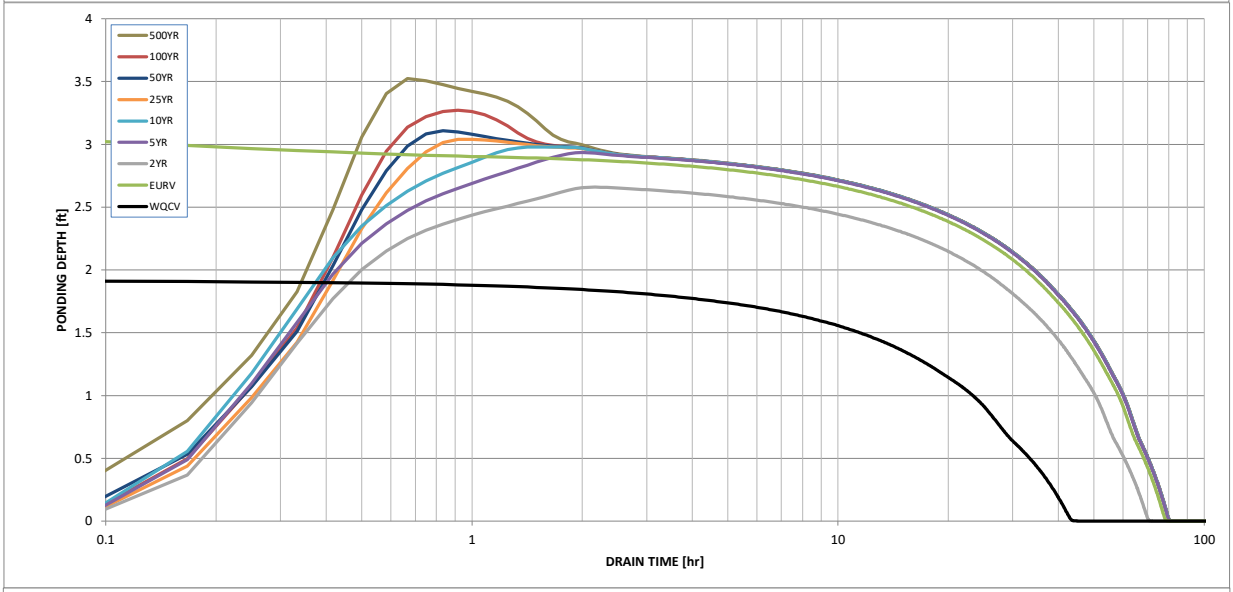
The user can override the default CUHP hydrographs and runoff volumes by entering new values in the Inflow Hydrographs table (Columns W through AF).

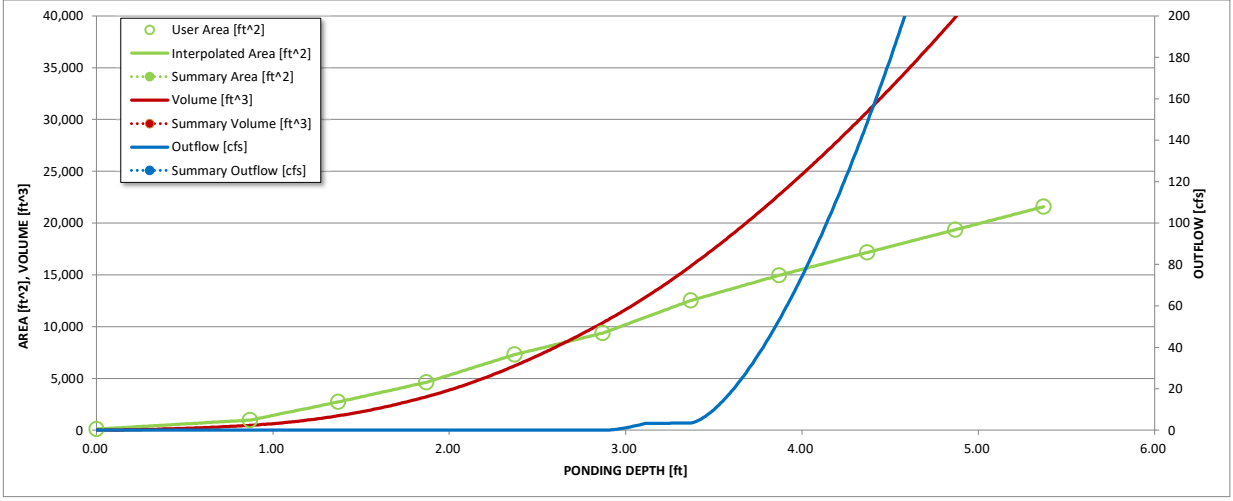
Design Storm Return Period =	WQCV	EURV	2 Year	5 Year	10 Year	25 Year	50 Year	100 Year	500 Year
One-Hour Rainfall Depth (in) =	N/A	N/A	1.19	1.50	1.75	2.00	2.25	2.52	3.55
CUHP Runoff Volume (acre-ft) =	0.079	0.301	0.205	0.269	0.320	0.387	0.453	0.533	0.829
Inflow Hydrograph Volume (acre-ft) =	N/A	N/A	0.205	0.269	0.320	0.387	0.453	0.533	0.829
CUHP Predevelopment Peak Q (cfs) =	N/A	N/A	0.0	0.1	0.1	1.0	2.0	3.3	7.6
OPTIONAL Override Predevelopment Peak Q (cfs) =	N/A	N/A							
Predevelopment Unit Peak Flow, q (cfs/acre) =	N/A	N/A	0.01	0.02	0.03	0.27	0.53	0.86	2.00
Peak Inflow Q (cfs) =	N/A	N/A	4.3	5.6	6.8	8.5	10.3	11.9	18.7
Peak Outflow Q (cfs) =	0.0	3.0	0.1	0.3	0.8	1.8	3.3	3.4	11.8
Ratio Peak Outflow to Predevelopment Q =	N/A	N/A	N/A	3.6	7.1	1.8	1.6	1.0	1.6
Structure Controlling Flow =	Vertical Orifice 1	Outlet Plate 1	Vertical Orifice 1	Overflow Weir 1	Overflow Weir 1	Overflow Weir 1	Outlet Plate 1	Outlet Plate 1	Spillway
Max Velocity through Grate 1 (fps) =	N/A	0.17	N/A	0.0	0.0	0.1	0.2	0.2	0.2
Max Velocity through Grate 2 (fps) =	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Time to Drain 97% of Inflow Volume (hours) =	37	62	57	65	64	62	61	59	55
Time to Drain 99% of Inflow Volume (hours) =	**40**	71	64	73	72	71	70	68	65
Maximum Ponding Depth (ft) =	1.92	3.14	2.66	2.94	2.98	3.04	3.11	3.27	3.52
Area at Maximum Ponding Depth (acres) =	0.11	0.25	0.19	0.22	0.23	0.24	0.25	0.27	0.30
Maximum Volume Stored (acre-ft) =	0.080	0.301	0.193	0.251	0.260	0.277	0.294	0.336	0.408

DETENTION BASIN OUTLET STRUCTURE DESIGN

MHFD-Detention, Version 4.04 (February 2021)







S-A-V-D Chart Axis Override	X-axis	Left Y-Axis	Right Y-Axis
minimum bound			
maximum bound			