NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF HARRIS KOCHER SMITH.

CIVIL CONSTRUCTION PLANS
CASTLE ROCK SPORT CENTER

SITUATED IN THE NORTHEAST 1/4 OF SECTION 10
AND THE NORTHWEST 1/4 OF SECTION 11 TOWNSHIP
8 SOUTH, RANGE 67 WEST OF THE 6TH P.M.
TOWN OF CASTLE ROCK, COUNTY OF DOUGLAS, STATE OF COLORADO.
TOWN OF CASTLE ROCK PROJECT NO. CD24-XXXX

LEGAL DESCRIPTION

LOT 1, BLOCK 4 OF BRICKYARD FILING NO. 1, RECORDED AT RECEPTION NO. _____, TOWN OF CASTLE ROCK, COUNTY OF DOUGLAS, STATE OF COLORADO.

BENCHMARK

BENCHMARK IS NGS POINT G 23, BEING A STANDARD BENCHMARK DISK IN TOP OF CONCRETE POST, ELEVATION = 6231.61 NVAD88.

BASIS OF BEARINGS

BEARINGS ARE BASED ON THE WEST LINE OF THE NORTHEAST QUARTER OF SECTION 11, TOWNSHIP 8 SOUTH, RANGE 67 WEST OF THE 6TH PRINCIPLE MEDIAN. AS MONUMENTED AT THE NORTHWEST CORNER BY A REBAR W/ 2.5:: ALUM. CAP PLS 6935 AMD AT TJE WEST QUARTER CORNER BY A 1" STEEL RODE W/ 2" CAP PIPE PLS 6935 AS BEARING NORTH 00°25'11" WEST, AS SHOWN ON THE PLAT OF CITADEL STATION FILING NO. 6.

GENERAL NOTES

1. ALL MATERIALS, WORKMANSHIP, AND CONSTRUCTION OF PUBLIC IMPROVEMENTS SHALL MEET OR EXCEED THE STANDARDS AND SPECIFICATIONS SET FORTH IN THE TOWN OF CASTLE ROCK (TCR) MUNICIPAL CODE, TCR TECHNICAL MANUALS, AND APPLICABLE STATE AND FEDERAL REGULATIONS. WHERE THERE IS CONFLICT BETWEEN THESE PLANS AND THE TECHNICAL MANUAL OR ANY APPLICABLE STANDARDS, THE MORE STRINGENT STANDARD SHALL APPLY. ALL WORK SHALL BE INSPECTED AND APPROVED BY THE TCR CONSTRUCTION INSPECTOR.

2. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED UPON AS BEING EXACT OR COMPLETE.

3. THE CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION CENTER AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF THE UTILITIES. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL VERIFY PERTINENT LOCATIONS AND ELEVATIONS, ESPECIALLY AT CONNECTION POINTS AND AT POTENTIAL UTILITY CONFLICTS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES THAT CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THESE PLANS.

4. THE CONTRACTOR SHALL COORDINATE AND COOPERATE WITH THE TOWN AND ALL UTILITY COMPANIES INVOLVED WITH REGARD TO RELOCATIONS OR ADJUSTMENTS OF EXISTING UTILITIES DURING CONSTRUCTION AND TO ASSURE THAT THE WORK IS ACCOMPLISHED IN A TIMELY FASHION AND WITH A MINIMUM DISRUPTION OF SERVICE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL PARTIES AFFECTED BY ANY DISRUPTION OF ANY UTILITY SERVICE.

5. CONTRACTOR SHALL PROVIDE A MINIMUM SEVENTY-TWO (72) HOURS NOTICE TO THE ON-SITE TCR CONSTRUCTION INSPECTOR, (720) 733-2200, PRIOR TO MAKING ANY CONNECTIONS/TIE-INS TO EXISTING WATER, SANITARY SEWER, AND/OR STORM SEWER SYSTEMS PROVIDED THAT THE UTILITY TIE-IN DOES NOT DISRUPT SERVICE TO EXISTING CR WATER CUSTOMERS. IF THE TIE-IN WILL DISRUPT UTILITY SERVICE, THEN CONTRACTOR SHALL PROVIDE A MINIMUM OF THREE (3) WEEKS NOTICE TO THE TCR CONSTRUCTION INSPECTOR TO ALLOW TIME FOR CR WATER TO PROVIDE WRITTEN NOTIFICATION TO EXISTING CUSTOMERS AFFECTED BY THE TIE-IN. ALL TOWN UTILITY TIE-INS MUST BE APPROVED BY CR WATER PRIOR TO COMMENCING WORK.

6. THE CONTRACTOR SHALL HAVE ONE (1) SIGNED COPY OF THE APPROVED PLANS, ONE (1) COPY OF THE APPROPRIATE CRITERIA AND SPECIFICATIONS, AND A COPY OF ANY PERMITS AND EXTENSION AGREEMENTS NEEDED FOR THE JOB ONSITE AT ALL TIMES.

7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ASPECTS OF SAFETY INCLUDING, BUT NOT LIMITED TO, EXCAVATION, TRENCHING, SHORING, TRAFFIC CONTROL, AND SECURITY.

8. IF DURING THE CONSTRUCTION PROCESS CONDITIONS ARE ENCOUNTERED WHICH COULD INDICATE A SITUATION THAT IS NOT IDENTIFIED IN THE PLANS OR SPECIFICATIONS, THE CONTRACTOR SHALL CONTACT THE TCR CONSTRUCTION INSPECTOR IMMEDIATELY.

9. ALL REFERENCES TO ANY PUBLISHED STANDARDS SHALL REFER TO THE LATEST REVISION OF SAID STANDARD UNLESS SPECIFICALLY STATED OTHERWISE.

10. THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN IN ACCORDANCE WITH MUTCD TO THE APPROPRIATE RIGHT-OF-WAY AUTHORITY (TOWN, COUNTY OR STATE) FOR APPROVAL PRIOR TO ANY CONSTRUCTION ACTIVITIES WITHIN OR AFFECTING THE RIGHT-OF-WAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ANY AND ALL TRAFFIC CONTROL DEVICES AS MAY BE REQUIRED BY THE CONSTRUCTION ACTIVITIES.

11. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL LABOR AND MATERIALS NECESSARY FOR THE COMPLETION OF THE INTENDED IMPROVEMENTS SHOWN ON THESE DRAWINGS OR AS DESIGNATED TO BE PROVIDED, INSTALLED, OR CONSTRUCTED UNLESS SPECIFICALLY NOTED OTHERWISE.

12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECORDING AS-BUILT INFORMATION ON A SET OF RECORD DRAWINGS KEPT ON THE CONSTRUCTION SITE AND AVAILABLE TO THE TCR CONSTRUCTION INSPECTOR AT ALL TIMES.

13. DIMENSIONS FOR LAYOUT AND CONSTRUCTION ARE NOT TO BE SCALED FROM ANY DRAWING. IF PERTINENT DIMENSIONS ARE NOT SHOWN, CONTACT THE CONSULTANT ENGINEER FOR CLARIFICATION AND ANNOTATE THE DIMENSION ON THE AS-BUILT RECORD DRAWINGS.

14. ALL INITIAL SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PER THE TEMPORARY EROSION & SEDIMENT CONTROL (TESC) PLAN PRIOR TO ANY EARTH-DISTURBING ACTIVITY. ALL EROSION AND SEDIMENT CONTROL PRACTICES MUST BE MAINTAINED IN EFFECTIVE OPERATING CONDITION AT ALL TIMES. REMOVAL OF CONTROL MEASURES SHALL NOT OCCUR WITHOUT THE APPROVAL OF THE STORMWATER INSPECTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ROADWAYS FREE AND CLEAR OF ALL CONSTRUCTION DEBRIS AND DIRT TRACKED FROM THE SITE. THE CONTRACTOR SHALL ALSO COMPLY WITH ALL TERMS AND CONDITIONS OF THE COLORADO CONSTRUCTION GENERAL PERMIT FOR STORMWATER DISCHARGES.

15. THE CONTRACTOR SHALL PROVIDE AN ACTION PLAN IMMEDIATELY FOLLOWING THE PRE-CONSTRUCTION MEETING DETAILING SUFFICIENT MEANS TO MITIGATE DUST ON SITE DURING OVERLOT GRADING, ROCK CRUSHING OR OTHER EARTHWORK ACTIVITIES. IF THE CONTRACTOR FAILS TO CONTROL DUST, ALL EARTH DISTURBING ACTIVITIES SHALL BE STOPPED UNTIL SUFFICIENT MEASURES ARE TAKEN TO THE TOWN'S SATISFACTION. THE CONTRACTOR SHALL ALSO COMPLY WITH ALL TERMS AND CONDITIONS OF THE COLORADO AIR QUALITY REGULATIONS FOR LAND DEVELOPMENT, AS REQUIRED.

16. THE CONTRACTOR SHALL SEQUENCE INSTALLATION OF UTILITIES IN SUCH A MANNER AS TO MINIMIZE POTENTIAL UTILITY CONFLICTS. IN GENERAL, STORM SEWER AND SANITARY SEWER SHOULD BE CONSTRUCTED PRIOR TO INSTALLATION OF THE WATER LINES AND DRY UTILITIES.

17. THERE SHALL BE NO SITE CONSTRUCTION ACTIVITIES ON SATURDAYS UNLESS SPECIFICALLY APPROVED BY THE TCR CONSTRUCTION INSPECTOR AND NO SITE CONSTRUCTION ACTIVITIES ON SUNDAYS OR HOLIDAYS UNLESS THERE IS PRIOR WRITTEN APPROVAL BY THE PUBLIC WORKS DIRECTOR.

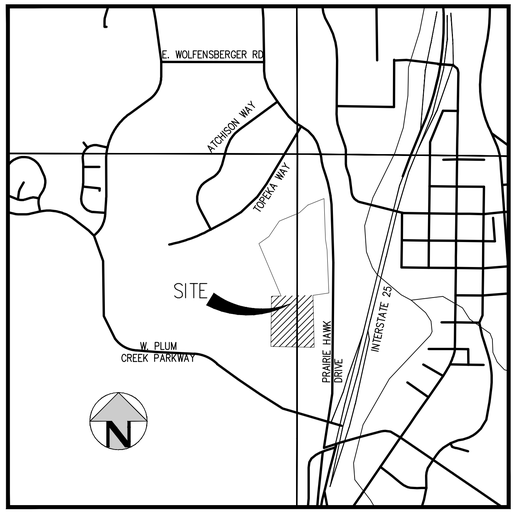
18. NO SOLID OBJECT (EXCLUDING FIRE HYDRANTS AND TRAFFIC CONTROL DEVICES AND TRAFFIC SIGNS) EXCEEDING THIRTY (30) INCHES IN HEIGHT ABOVE THE FLOWLINE ELEVATION OF THE ADJACENT STREET, INCLUDING BUT NOT LIMITED TO BUILDINGS, UTILITY CABINETS, WALLS, FENCES, LANDSCAPE PLANTINGS, CROPS, CUT SLOPES, AND BERMS, SHALL BE PLACED WITHIN SIGHT DISTANCE LINES AND SIGHT DISTANCE EASEMENTS.

19. THIS PROPERTY IS LOCATED WITHIN ZONE X AS PER FEMA FIRM PANEL NO. 0306G DATED 03-16-2016.

20. FUTURE (FUTR) UTILITIES AND ROADWAY IMPROVEMENTS SHOWN IN THIS PLAN SET WILL BE INSTALLED BY OTHERS (UNDER A SEPARATE CONTRACT) AS PART OF THE CD24-0030 PLAN SET.

FIRE NOTE:

1. THE TOWN OF CASTLE ROCK FIRE DEPARTMENT APPROVED THE VARIANCE REQUEST FOR ENTRY SEPARATION ON 09/19/23. REFER TO TCV23-0042 FOR ADDITIONAL INFORMATION.



VICINITY MAP
SCALE: 1" = 1000'

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CD3	SITE PLAN
CD4	OVERALL UTILITY PLAN
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CD23	STORM LINES EC & EE
CD24	STORM LINES F, FA, & FB PLAN & PROFILE
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CD26	LANDSCAPE DRAIN PLAN
CD27	SANITARY SEWER LINE A PLAN & PROFILE
CD28	SANITARY SEWER SERVICE PLAN & PROFILE
CD29	WATER PLAN & PROFILE
CD30	WATER PLAN & PROFILE
CD31	WATER PLAN & PROFILE
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CD35	LANDSCAPE DRAIN DETAILS
CD36	WATER DETAILS
CD37	WATER DETAILS
CD38	WATER DETAILS
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APPROVED VARIANCES

TCV#:	APPROVAL DATE:	PURPOSE / DESCRIPTION:

FIELD CHANGE ORDER TABLE

FCO#:	DATE:	PURPOSE / DESCRIPTION:

ABBREVIATIONS

BLDG	BUILDING
BOP	BOTTOM OF PIPE
BS	BOTTOM OF STEP
BW	BOTTOM OF WALL (FG)
CONC	CONCRETE
DIA	DIAMETER
DIP	DUCTILE IRON PIPE
DR	DOOR
DS	DOWNSPOUT
E	EAST, EASTING
EGL	ENERGY GRADE LINE
EL	ELEVATION
EOA	EDGE OF ASPHALT
EOC	EDGE OF CONCRETE
EOP	EDGE OF PAVEMENT
ESMT	EASEMENT
EV	ELECTRIC VEHICLE
EX	EXISTING
FDC	FIRE DEPARTMENT CONNECTION
FF	FINISHED FLOOR
FG	FINISHED GRADE
FH	FIRE HYDRANT
FL	FLOW LINE
FO	FIBER OPTIC
FUTR	FUTURE
GB	GRADE BREAK
GV	GATE VALVE
HC	HANDICAP
HGL	HYDRAULIC GRADE LINE
HP	HIGH POINT
IR	IRRIGATION
INV	INVERT
LP	LOW POINT
LSD	LANDSCAPE DRAIN
MAX	MAXIMUM
MH	MANHOLE
MIN	MINIMUM
MJ	MECHANICAL JOINT
N	NORTH, NORTHING
PR	PROPOSED
PVC	POLYVINYL CHLORIDE
RCP	REINFORCED CONCRETE PIPE
ROW	RIGHT OF WAY
SAN	SANITARY
SS	SANITARY SEWER
STA	STATION
STM	STORM
SW	SIDEWALK
TB	THRUST BLOCK
TBC	TOP/BACK OF CURB
TKC	TYPE K COPPER
TOP	TOP OF PIPE
TS	TOP OF STEP
TW	TOP OF WALL (FG)
TYP	TYPICAL
UGE	UNDERGROUND ELECTRIC
VERT	VERTICAL
WAT	WATER
XING	CROSSING

LEGEND

	EXISTING	PROPOSED
PROPERTY BOUNDARY		
RIGHT-OF-WAY		
UTILITY EASEMENT		
ACCESS EASEMENT		
ACCESSIBLE ROUTE		
SANITARY SEWER W/ MANHOLE	SS	SS
SANITARY SERVICE W/CLEANOUT		
WATER LINE AND GATE VALVE	W	W
WATER SERVICE		
STORM SEWER W/ MANHOLE & INLETS	ST	
WATER METER MANHOLE		
FIRE HYDRANT		
STREET LIGHT		
SIGN		
FENCE		
TRANSFORMER		

TOWN OF CASTLE ROCK
PUBLIC WORK DEPARTMENT
4175 N. CASTLETON COURT
CASTLE ROCK, CO 80109
P: 720.733.2462
EMAIL: MCAMMALLERI@CRGOV.COM

CASTLE ROCK WATER
175 KELLOGG COURT CASTLE ROCK, CO 80109
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DEVELOPER/CURRENT OWNER
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Back 40 Landscape Architecture
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P: 720.236.6656
POC: NATHAN KROHN
NATHAN@BACK40LA.COM

CIVIL ENGINEER
HARRIS KOCHER SMITH
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Denver, Colorado 80203
P: 303.623.6300 F: 303.623.6311
HarrisKocherSmith.com
POC: LIBBEY ENDERSBE
LENDERSBE@HKSENG.COM

Know what's below. Call before you dig.

ISSUE DATE: 05-24-2024	PROJECT #: 200726
DATE	REVISION COMMENTS
06-04-2024	30% CD
07-31-2024	50% CD
08-30-2024	70% CD
10-02-2024	95% CD
10-22-2024	PRICING SET
11-08-2024	TOWN SUBMITTAL

PROFESSIONAL ENGINEER CERTIFICATION

I HEREBY AFFIRM THAT THESE FINAL CONSTRUCTION PLANS WERE PREPARED UNDER MY DIRECT SUPERVISION, IN ACCORDANCE WITH ALL APPLICABLE TOWN OF CASTLE ROCK AND STATE OF COLORADO STANDARDS AND STATUTES, RESPECTIVELY; AND THAT I AM FULLY RESPONSIBLE FOR ALL DESIGN AND REVISIONS RELATIVE TO SAID PLANS.

PRELIMINARY NOT FOR CONSTRUCTION

JOHN D O'ROURKE, P.E. #43327 DATE

INDEMNIFICATION AND ADHERENCE TO STANDARDS STATEMENTS

THESE PLANS HAVE BEEN REVIEWED BY THE TOWN OF CASTLE ROCK FOR CONCEPT ONLY. THE REVIEW DOES NOT IMPLY RESPONSIBILITY BY THE REVIEWING DEPARTMENT, THE TOWN ENGINEER, OR THE TOWN OF CASTLE ROCK FOR ACCURACY AND CORRECTNESS OF THE CALCULATIONS. FURTHERMORE, THE REVIEW DOES NOT IMPLY THAT QUANTITIES OF ITEMS ON THE PLANS ARE THE FINAL QUANTITIES REQUIRED. THE REVIEW SHALL NOT BE CONSTRUED FOR ANY REASON AS ACCEPTANCE OF FINANCIAL RESPONSIBILITY BY THE TOWN FOR ADDITIONAL QUANTITIES OF ITEMS SHOWN THAT MAY BE REQUIRED DURING THE CONSTRUCTION PHASE.

ALL WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE TOWN OF CASTLE ROCK MUNICIPAL CODE, TECHNICAL MANUALS AND/OR OTHER TOWN-APPROVED APPLICABLE STANDARDS.

TOWN OF CASTLE ROCK APPROVAL
PLANS ARE HEREBY APPROVED FOR ONE YEAR FROM DATE OF DEVELOPMENT SERVICES APPROVAL

Approved By:

Development Services Date

Filepath: P:\2020\200726\ENGINEERING\DRECI CENTERCD\ - COVER SHEET.DWG
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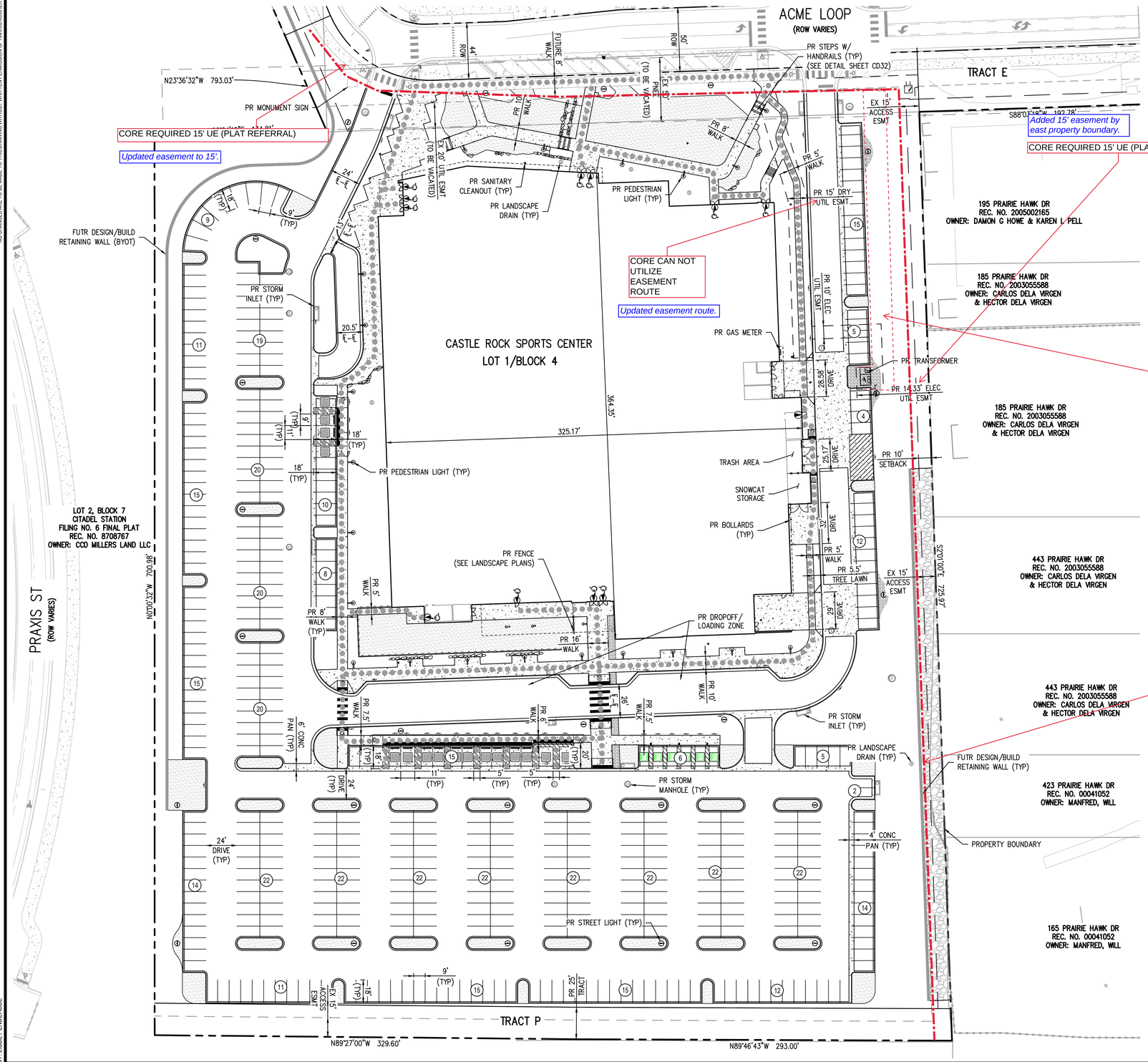

PARKING COUNT	
STANDARD PARKING	446
STANDARD EV PARKING	6
ACCESSIBLE STANDARD PARKING	12
ACCESSIBLE VAN PARKING	2
ACCESSIBLE EV PARKING	1
ACCESSIBLE EV VAN PARKING	1
TOTAL	468

LEGEND:

- PROPERTY BOUNDARY
- PROPOSED EASEMENT
- EXISTING EASEMENT
- PROPOSED ACCESSIBLE (ADA) PATH
- PROPOSED CONCRETE
- PROPOSED CONCRETE LOADING PAD
- PROPOSED RETAINING WALL
- PROPOSED BUILDING ENTRANCE
- PROPOSED PARKING COUNT
- LANDSCAPE BOULDER WALL

VERTICAL DATUM

NGS POINT G 23, BEING A STANDARD BENCHMARK DISK IN TOP OF CONCRETE POST, ELEVATION = 6231.61 NAVD88

HORIZONTAL CONTROL

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PRELIMINARY NOT FOR CONSTRUCTION

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Know what's below. Call before you dig.

SCALE: 1" = 40'

DESIGNED BY: AS
CHECKED BY: JDO
DRAWN BY: AS

ISSUE DATE: 05-24-2024

DATE	REVISION COMMENTS
06-04-2024	30% CD
07-31-2024	50% CD
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HARRIS KOCHER SMITH
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HarrisKocherSmith.com

CONFLUENCE COMPANIES, LLC

CASTLE ROCK SPORT CENTER
SITE PLAN

PROJECT #: 200726
SHEET NUMBER
CD3
3 OF 39

FILEPATH: P:\2020\20072\6ENGINEERING\CD\REC CENTER\CD_-SITE PLAN.DWG, LAYOUT: LAYOUT1
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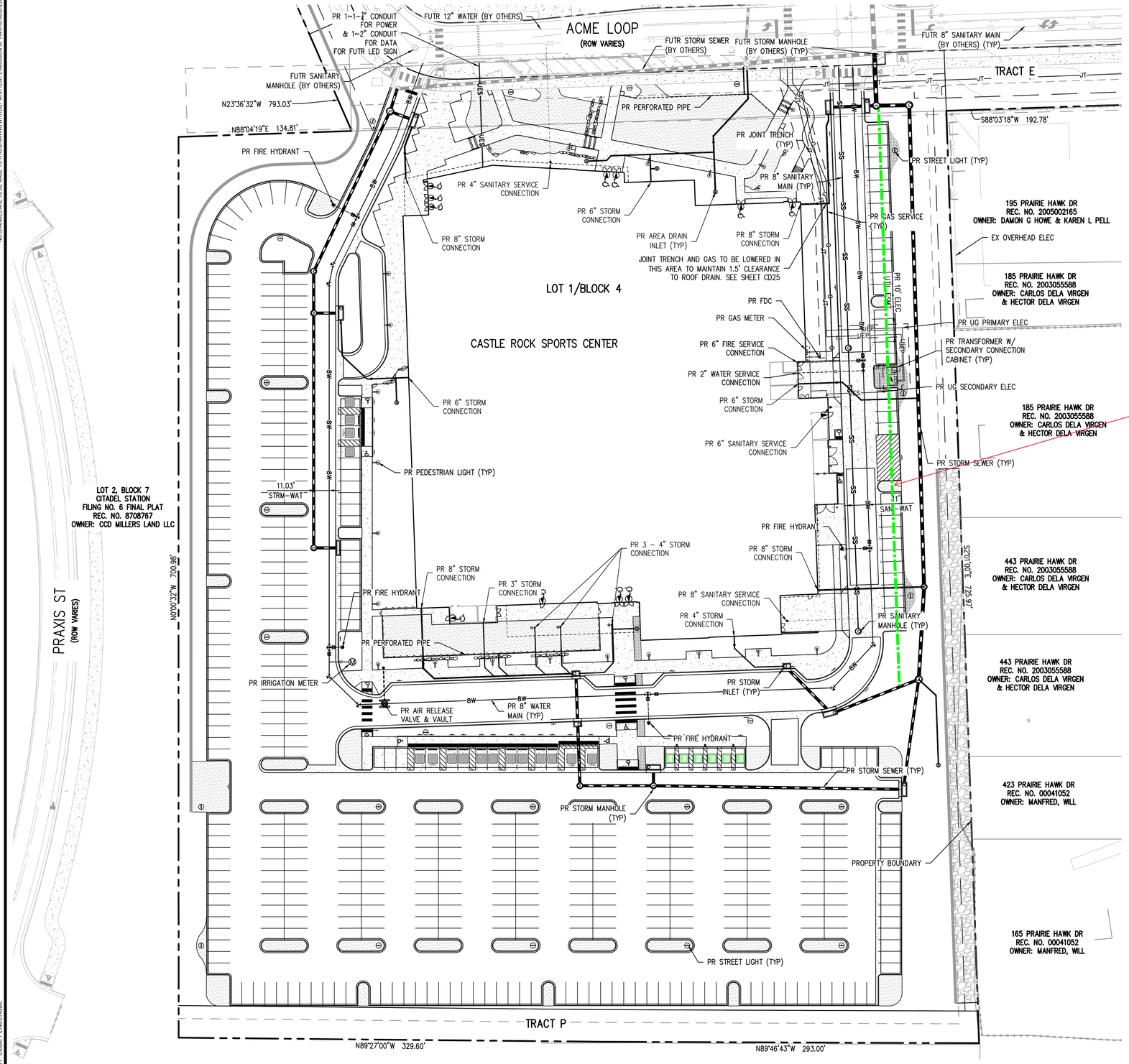

LEGEND:

- PROPERTY BOUNDARY
- EXISTING SANITARY SEWER
- EXISTING WATER LINE
- EXISTING STORM LINE
- PROPOSED LANDSCAPE DRAIN PIPE
- PROPOSED LANDSCAPE AREA DRAIN
- PROPOSED SANITARY SEWER W/ MANHOLE
- PROPOSED WATER LINE
- PROPOSED WATER SERVICE
- PROPOSED FIRE SERVICE
- PROPOSED SANITARY SERVICE
- PROPOSED STORM LINE
- PROPOSED GAS LINE
- PROPOSED ELECTRIC LINE
- PROPOSED RETAINING WALL
- PROPOSED HYDRANT
- PROPOSED STREET LIGHT
- PROPOSED PEDESTRIAN LIGHT
- PROPOSED TRANSFORMER

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HarrisKocherSmith.com

CONFLUENCE COMPANIES, LLC

CASTLE ROCK SPORT CENTER
OVERALL UTILITY PLAN

PROJECT #: 200726
SHEET NUMBER
CD4
4 OF 39

FILEPATH: P:\2020\200726\ENGINEERING\UTILITIES\REC CENTER\CD_ OVERALL UTILITY PLAN.DWG, LAYOUT: LAYOUT1
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PLOTTED: FRI 11/08/24 1:31:33P BY: LIBBEY ENDERSBE

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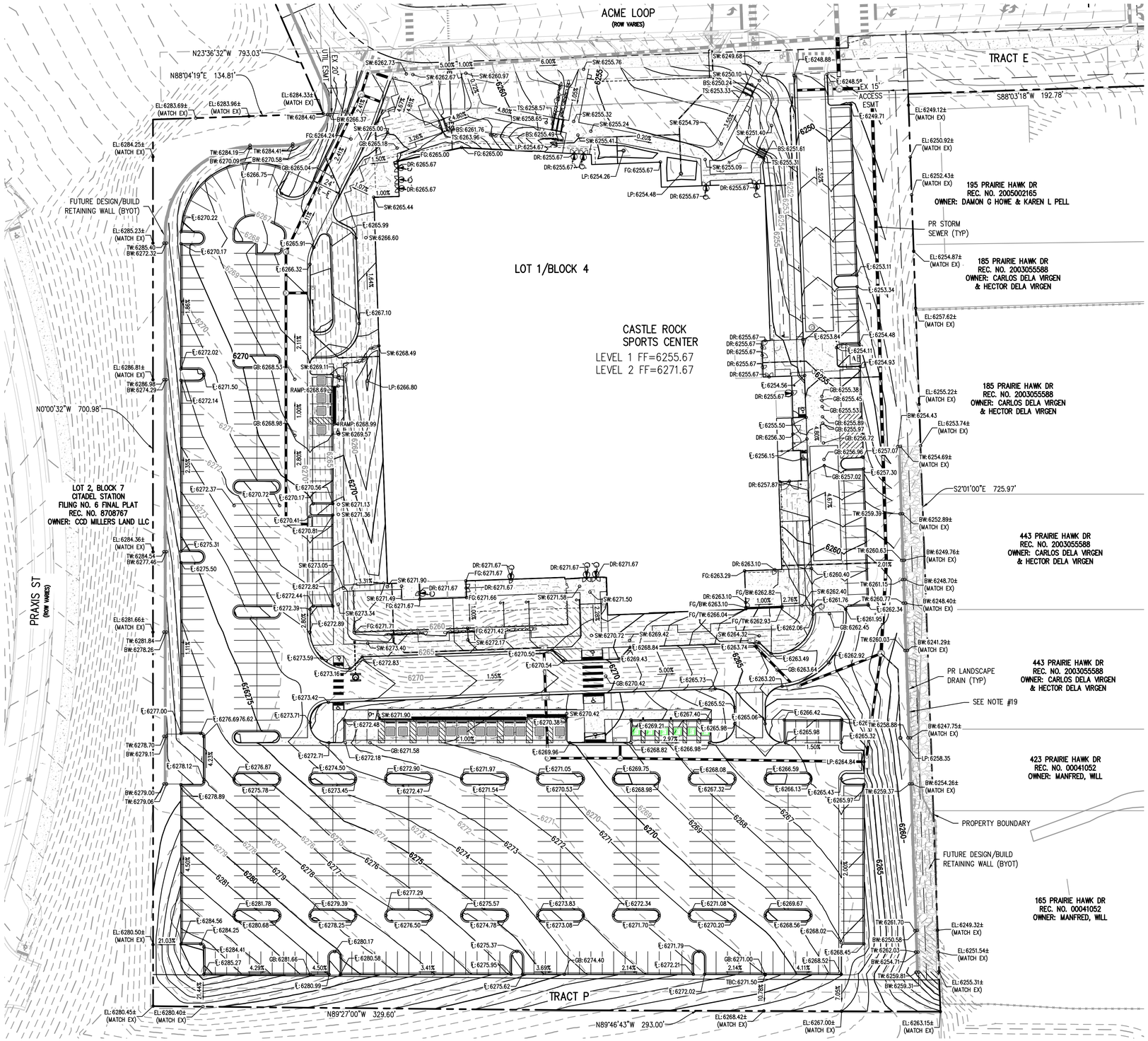

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NOT FOR
CONSTRUCTION

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11-08-2024	TOWN SUBMITTAL

HARRIS KOCHER SMITH
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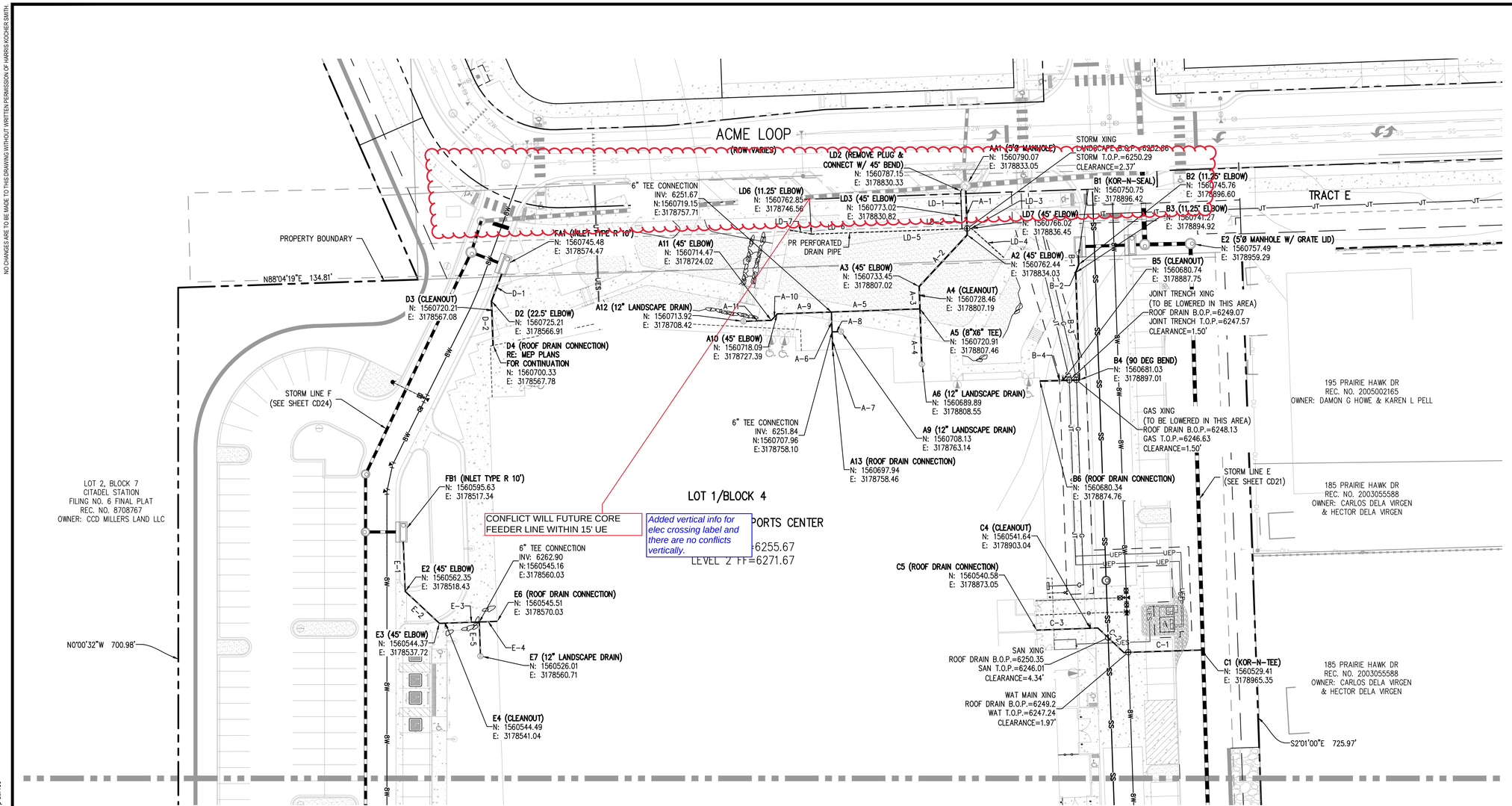
CONFLUENCE COMPANIES, LLC

CASTLE ROCK SPORT CENTER
OVERALL GRADING PLAN

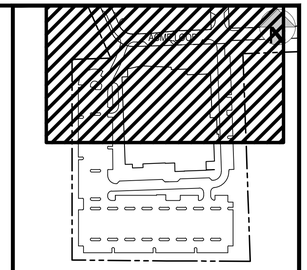
PROJECT #: 200726
SHEET NUMBER
CD5
5 OF 39

FILEPATH: P:\200\200726\ENGINEERING\GRADING\REC CENTER\CD_OVERALL GRADING PLAN.DWG LAYOUT: LAYOUT1
13 XREFs: cd - cl approval block, cd - cl pe certification block, e-base, e-legal, keymap-rec[1], p-base, p-base-prxis, p-base-rec, p-legal, p-roadway, p-util, p-util-rec, p-util-rec-to others
PLOTTED: FRI 11/08/24 1:31:49P BY: LIBBEY ENDERSBE

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF HARRIS KOCHER SMITH.



MATCH LINE - SEE SHEET CD26



GENERAL LANDSCAPE DRAIN NOTES:

1. CONTRACTOR SHALL USE 90–DEGREE WYES AT PERPENDICULAR JOINTS WHERE POSSIBLE.
2. CONTRACTOR SHALL USE CONCENTRIC REDUCERS UNLESS OTHERWISE NOTED. WHERE ECCENTRIC REDUCERS ARE USED THE INVERTS MUST MATCH.
3. CONTRACTOR SHALL USE STANDARD PVC FITTINGS WHEN POSSIBLE UNLESS OTHERWISE NOTED ON THE PLAN.
4. ALL LANDSCAPE DRAINS PIPES SHALL BE WATERTIGHT PVC, RIGID HDPE WITH SMOOTH INNER WALL, OR ENGINEER APPROVED EQUIVALENT.
5. ALL LANDSCAPE DRAIN PIPES SHALL BE A MINIMUM OF 2–FT DEEP (UNLESS OTHERWISE NOTED) AND SHALL HAVE A 0.50% MINIMUM SLOPE.
6. LANDSCAPE DRAIN GRATES IN LANDSCAPED AREAS SHALL BE NYLOPLAST 12–INCH DOME STYLE GRATES/COVERS, OR ENGINEER–APPROVED EQUIVALENT.
7. LANDSCAPE DRAIN GRATES IN PAVEMENT SHALL BE PEDESTRIAN–FRIENDLY, 4–INCH ROUND BRASS GRATES OR ENGINEER–APPROVED EQUIVALENT UNLESS OTHERWISE NOTED ON THE PLAN.
8. TRENCH DRAINS SHALL BE ACO KLASSIC KS100S WITH TYPE 461Q DUCTILE IRON SLOTTED GRATE OR ENGINEER–APPROVED EQUIVALENT. TRENCH DRAINS SHALL HAVE AN INVERT SLOPE OF AT LEAST 0.50%. TRENCH DRAIN INVERT SHALL MATCH THE CONNECTING LANDSCAPE DRAIN PIPE INVERT. FOR GRATE ELEVATIONS SEE SHEET(S) CD8 – CD18.
9. LANDSCAPE DRAINS LOCATED AT THE END OF A LINE SHALL BE INSTALLED WITH A RISER AND 90 DEGREE BEND MATCHING THE SIZE OF THE PIPE CONNECTING TO THE DRAIN AS CALLED OUT IN THE LANDSCAPE DRAIN TABLE.
10. LANDSCAPE DRAINS CONNECTING TO ROOF DOWNSPOUTS SHALL BE INSTALLED WITH A RISER AND 90 DEGREE BEND MATCHING THE SIZE OF THE PIPE CONNECTING TO THE ROOF DRAIN AS CALLED OUT IN THE LANDSCAPE DRAIN TABLE.
11. INLINE LANDSCAPE DRAINS SHALL BE INSTALLED WITH A RISER AND TEE FITTING MATCHING THE SIZE OF THE MAIN LINE CONNECTION AS CALLED OUT IN THE LANDSCAPE DRAIN TABLE. IF TWO OR MORE PIPE SIZES INTERSECT AT THE INLINE DRAIN CONNECTION THEN THE LARGER PIPE SIZE SHALL DICTATE THE SIZE OF THE RISER.
12. AT ANY LOCATION WHERE MORE THAN TWO LANDSCAPE DRAIN PIPES INTERSECT AND CANNOT BE CONNECTED WITH STANDARD FITTINGS, A DRAIN BASIN SHALL BE INSTALLED. THE DRAIN BASIN SHALL BE SIZED ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS.
13. FOR GRATE 12ELEVATIONS SEE DETAILED GRADING PLAN SHEET(S).

PIPE TABLE

NAME	SIZE	LENGTH	SLOPE	MATERIAL	UPSTREAM INVERT	DOWNSTREAM INVERT
A-1	8"	22.15'	13.00%	PVC	6250.05	6247.17
A-2	8"	39.62'	1.50%	PVC	6250.65	6250.05
A-3	8"	12.56'	1.50%	PVC	6250.84	6250.65
A-4	8"	31.04'	1.50%	PVC	6251.30	6250.84
A-5	6"	49.78'	1.50%	PVC	6251.67	6250.92
A-6	6"	11.21'	1.50%	PVC	6251.84	6251.67
A-7	6"	10.02'	18.26%	PVC	6253.67	6251.84
A-8	6"	5.04'	1.50%	PVC	6251.92	6251.84
A-9	6"	30.34'	1.50%	PVC	6252.13	6251.67

PIPE TABLE

NAME	SIZE	LENGTH	SLOPE	MATERIAL	UPSTREAM INVERT	DOWNSTREAM INVERT
A-10	6"	4.95'	1.50%	PVC	6252.20	6252.13
A-11	6"	15.61'	1.50%	PVC	6252.43	6252.20
B-1	8"	5.00'	2.00%	PVC	6244.37	6244.27
B-2	8"	4.79'	2.00%	PVC	6244.47	6244.37
B-3	8"	60.28'	5.45%	PVC	6247.76	6244.47
B-4	8"	22.26'	23.54%	PVC	6253.00	6247.76
C-1	6"	43.45'	7.82%	PVC	6249.42	6246.02
C-2	6"	20.03'	7.82%	PVC	6250.99	6249.42
C-3	6"	34.29'	7.82%	PVC	6253.67	6250.99

PIPE TABLE

NAME	SIZE	LENGTH	SLOPE	MATERIAL	UPSTREAM INVERT	DOWNSTREAM INVERT
D-1	8"	16.64'	12.38%	PVC	6258.16	6256.10
D-2	8"	24.89'	12.40%	PVC	6261.25	6258.16
E-1	6"	28.30'	2.72%	PVC	6261.57	6260.80
E-2	6"	26.37'	2.72%	PVC	6262.29	6261.57
E-3	6"	22.33'	2.72%	PVC	6262.90	6262.29
E-4	6"	10.00'	2.70%	PVC	6263.17	6262.90
E-5	6"	19.16'	1.50%	PVC	6263.19	6262.90
LD-1	4"	14.13'	2.00%	PVC	6245.36	6245.08
LD-2	4"	7.20'	101.39%	PVC	6252.66	6245.36

PIPE TABLE

NAME	SIZE	LENGTH	SLOPE	MATERIAL	UPSTREAM INVERT	DOWNSTREAM INVERT
LD-3	4"	5.37'	0.56%	PVC	6252.69	6252.66
LD-4	4"	24.15'	1.16%	PVC	6252.97	6252.69
LD-5	4"	56.38'	1.12%	PVC	6253.29	6252.66
LD-6	4"	28.18'	3.55%	PVC	6254.29	6253.29
LD-7	4"	12.33'	2.51%	PVC	6254.60	6254.29

PROFESSIONAL ENGINEER CERTIFICATION

I HEREBY AFFIRM THAT THESE FINAL CONSTRUCTION PLANS WERE PREPARED UNDER MY DIRECT SUPERVISION, IN ACCORDANCE WITH ALL APPLICABLE TOWN OF CASTLE ROCK AND STATE OF COLORADO STANDARDS AND STATUTES, RESPECTIVELY; AND THAT I AM FULLY RESPONSIBLE FOR ALL DESIGN AND REVISIONS RELATIVE TO SAID PLANS.

PRELIMINARY NOT FOR CONSTRUCTION

JOHN D O'ROURKE, P.E. #43327 DATE

TOWN OF CASTLE ROCK APPROVAL

PLANS ARE HEREBY APPROVED FOR ONE YEAR FROM DATE OF DEVELOPMENT SERVICES APPROVAL

Approved By:

Development Services Date

Know what's below. Call before you dig.

30 0 30 60
SCALE: 1" = 30'

DESIGNED BY: AS
CHECKED BY: JDO
DRAWN BY: AS

ISSUE DATE: 05-24-2024

DATE	REVISION COMMENTS
06-04-2024	30% CD
07-31-2024	50% CD
08-30-2024	70% CD
10-02-2024	95% CD
10-22-2024	PRICING SET
11-08-2024	TOWN SUBMITTAL

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CONFLUENCE COMPANIES, LLC

CASTLE ROCK SPORT CENTER
LANDSCAPE DRAIN PLAN

PROJECT #: 200726
SHEET NUMBER
CD25
25 OF 39

FILEPATH: P:\2020\200726\ENGINEERING\UTILITIES\STORM\CASTLE ROCK SPORTS CENTER\CD_LANDSCAPE DRAIN PLAN DWG, LAYOUT, LAYOUT1
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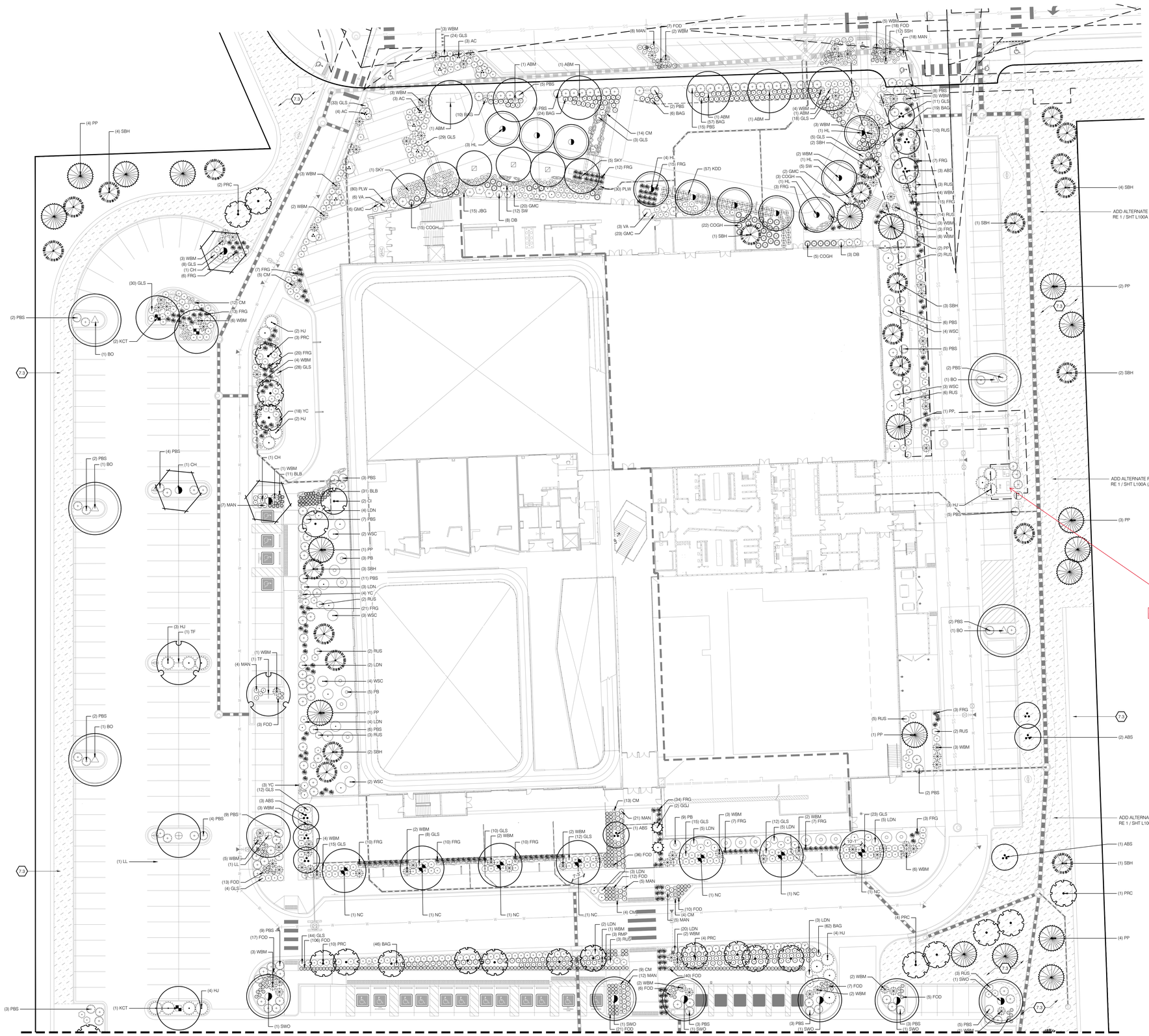

1 PLANTING PLAN

SCALE: 1" = 20'-0"

N

0' 10' 20' 40'

LANDSCAPE KEYNOTES

- 0.0 EXISTING CONDITIONS
- 1.0 PAVING
  - 1.1 CIP CONCRETE PAVING, SAWN JTS — DTL 12 / SHT L400
    - A | TYPE 1
      - COLOR: GRAY
      - FINISH: MEDIUM BROOM
    - B | TYPE 2
      - COLOR: INTEGRAL (TBD)
      - FINISH: SAND / SANDSCAPE
  - 1.4 ARTIFICIAL TURF — DTL 14 / SHT L400
    - MANUFACTURER: SYNLAWN
    - A | TYPE 1: PLAY PLATINUM W/ SAFETY PAD
    - B | TYPE 2: SYNAUGUSTINE 347
  - 1.5 DECOMPOSED GRANITE (STABILIZED) — DTL 11 / SHT L400
- 2.0 PAVEMENT JOINTING
  - 2.1 EXPANSION JOINT — DTL 15 / SHT L400
  - 2.2 SAWN CONTROL JOINT — DTL 15 / SHT L400
- 3.0 CURBS, EDGES, STEPS
  - 3.1 EDGER
    - B | ARTIFICIAL TURF ADJ PLANTING STEEL RESTRAINT — DTL 6 / SHT L400
    - C | PLANTING AREA STEEL EDGING RESTRAINT
  - 3.2 CIP CONC STEPS W/ SS HANDRAIL
    - COLOR: TBD
    - FINISH: MED. BROOM
    - A | 6 RISERS — DTL 2 / SHT L400
    - B | 7 RISERS — DTL 1 / SHT L400
    - C | 5 RISERS — DTL 2A / SHT L400
- 4.0 WALLS
  - 4.2 MSE RETAINING WALL — DTL 17 / SHT L400
- 5.0 SITE FURNISHINGS AND ELEMENTS
  - 5.1 CO BUFF SANDSTONE BOULDER
    - SIZES VARY, RE PLANS
    - B | SLAB SEATING (24H×18DxL VARIES)
    - D | TERRACE BOULDER SEATING FEATURE — DTL 5 / SHT L400
    - E | LANDSCAPE BOULDER — DTL 8 / SHT L400
    - F | TERRACE BOULDER SEATING FEATURE — DTL 9 / SHT L400
  - 5.2 BIKE RACK (OWNER FURNISHED)
  - 5.3 TRASH RECEPTACLE (OWNER FURNISHED)
  - 5.5 STONE SEATING SLAB (2' x 2' x LENGTH PER PLANS)
  - 5.12 FENCING - PLAY AREA — SHT L401
- 6.0 SITE LIGHTING
  - 6.1 POLE MOUNTED OVERHEAD LIGHTS
    - A | STREET
    - B | PARKING LOT — DTL 3 / SHT L400
  - 6.2 PEDESTRIAN LIGHT — DTL 4 / SHT L400
- 7.0 PLANTING
  - 7.1 TREES
    - A | DECIDUOUS TREE — DTL 1 & 2 / SHT L402
    - B | EVERGREEN TREE — DTL 1 & 2 / SHT L402
    - C | ORNAMENTAL TREE — DTL 1 & 2 / SHT L402
  - 7.2 MULCH
    - A | WOOD — DTL 7 / SHT L402
    - B | COBBLE — DTL 6 / SHT L402
  - 7.3 NATIVE SEED — SPEC SECTION 32 9200

MATERIALS LEGEND

- 7.3 NATIVE SEED

UTILITY LEGEND

- SS — SANITARY SEWER LINE
- W — WATER LINE
- ST — STORM SEWER LINE
- ELECTRICAL LINE
- GAS LINE
- E
- G

NOTE:
REFERENCE CIVIL ENGINEERS DRAWINGS FOR ALL UTILITY INFORMATION AND SYMBOLS.

PLANT SCHEDULE

RE SHEET L200B FOR PLANT SCHEDULE

BARKER RINKER SEACAT ARCHITECTURE

brsarch.com

TOWN OF CASTLE ROCK PARKS & RECREATION

CASTLE ROCK SPORT CENTER

Castle Rock, Colorado

DOCUMENT PACKAGE NOT FOR REGULATORY APPROVAL, PERMITTING, OR CONSTRUCTION

Project Number:	2020.026
Issue:	100% CD
Date:	NOVEMBER 8, 2024
Drawn By:	NK
Checked By:	WB

Revisions:

Rev.	Date:

Sheet title:

LANDSCAPE PLANTING PLAN (NORTH)

L200A

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10/17/2023 9:44:58 AM Autodesk Docs://Castle Rock Sports Center/CRSC - Architecture_v2024.rvt

PHOTOMETRIC LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	VOLTAGE	LAMP QUAN.	LAMP WATTAGE	LAMP / CCT / CRI	MAX WATTAGE	LUMEN OUTPUT	DIMMING / MIN LEVEL	MOUNTING	BOF/RFD/OFH
EA1	25' TALL POST TOP PEDESTRIAN STYLE POLE, 28" WIDE POST TOP, TYPE V SQUARE MEDIUM DISTRIBUTION, LENSLESS, WITH HEAVY DUTY POLE BASE PLATE	KIM LIGHTING	UR28-96L-185-3K8-SQM-UNV-FM44-BLT-CLR-PT	277 V	1	185 W	LED / 3000K / 80 CRI	185 VA	22057	SWITCHING	POST TOP	25'-0" OFH
EA2	30' TALL POST TOP PEDESTRIAN STYLE POLE, 28" WIDE POST TOP, TYPE III DISTRIBUTION, LENSLESS, WITH HEAVY DUTY POLE BASE PLATE	KIM LIGHTING	UR28-96L-185-3K8-3-UNV-FM44-BLT-CLR-PT	277 V	1	185 W	LED / 3000K / 80 CRI	185 VA	22639	SWITCHING	POST TOP	30'-0" OFH
EA3	25' TALL POST TOP PEDESTRIAN STYLE POLE, 28" WIDE POST TOP, TYPE III DISTRIBUTION, BACK-LIGHT CONTROL, LENSLESS, WITH HEAVY DUTY POLE BASE PLATE	KIM LIGHTING	UR28-96L-155-3K8-3-UNV-FM44-BLT-BC-CLR-PT	277 V	1	155 W	LED / 3000K / 80 CRI	155 VA	10873	SWITCHING	POST TOP	25'-0" OFH
EA4	25' TALL POST TOP PEDESTRIAN STYLE POLE, 28" WIDE POST TOP, TYPE IV WIDE DISTRIBUTION, LENSLESS, WITH HEAVY DUTY POLE BASE PLATE	KIM LIGHTING	UR28-96L-155-3K8-4W-UNV-FM44-BLT-CLR-PT	277 V	1	155 W	LED / 3000K / 80 CRI	155 VA	18703	SWITCHING	POST TOP	25'-0" OFH
EA5	14' TALL POST TOP PEDESTRIAN STYLE POLE, 20" WIDE POST TOP, TYPE III DISTRIBUTION, LENSLESS, WITH HEAVY DUTY POLE BASE PLATE	KIM LIGHTING	UR20-28L-30-3K8-3-UNV-FM54A34-BLT-HDL-PT	277 V	1	30 W	LED / 3000K / 80 CRI	30 VA	2917	SWITCHING	POST TOP	14'-0" OFH
EA6	20' TALL POST TOP PEDESTRIAN STYLE POLE, 28" WIDE POST TOP, TYPE V SQUARE MEDIUM DISTRIBUTION, LENSLESS, WITH HEAVY DUTY POLE BASE PLATE	KIM LIGHTING	UR28-96L-185-3K8-SQM-UNV-FM44-BLT-CLR-PT	277 V	1	185 W	LED / 3000K / 80 CRI	185 VA	22057	SWITCHING	POST TOP	20'-0" OFH
EA7	20' TALL POST TOP PEDESTRIAN STYLE POLE, 28" WIDE POST TOP, TYPE IV WIDE DISTRIBUTION, LENSLESS, WITH HEAVY DUTY POLE BASE PLATE	KIM LIGHTING	UR28-96L-155-3K8-4W-UNV-FM44-BLT-CLR-PT	277 V	1	155 W	LED / 3000K / 80 CRI	155 VA	18703	SWITCHING	POST TOP	20'-0" OFH
ED1	EXTERIOR 4' WIDE RECESSED DOWNLIGHT, WET RATED, GYP CEILING, REGRESSED HIGH EFFICIENCY LENS, 50 DEGREE BEAM SPREAD	ALPHABET	NUE4-RD-SW-10LM-35K-90-60D-HET-BK-BK-NC-UNV-DIM10	277 V	1	11 W	LED / 3000K / 90 CRI	11 VA	1070	0-10V TO 1%	CEILING RECESSED	0'-3.25" RFD
ED1EM	EXTERIOR 4' WIDE RECESSED DOWNLIGHT, WET RATED, GYP CEILING, REGRESSED HIGH EFFICIENCY LENS, 50 DEGREE BEAM SPREAD, WITH INTEGRAL EMERGENCY BATTERY BACKUP	ALPHABET	NUE4-RD-SW-10LM-35K-90-60D-HET-BK-BK-NC-UNV-DIM10-EM7	277 V	1	11 W	LED / 3000K / 90 CRI	11 VA	1070	0-10V TO 1%	CEILING RECESSED	0'-3.25" RFD
ES1	EXTERIOR 3.94" LONG, 3.74" WIDE SURFACE MOUNTED CYLINDER, IP66 WET RATED, 1700 LUMENS, 60 DEGREE BEAM SPREAD	BINA LIGHTING	A-CYL66-S-RD-20W-30K-60D-HC-BL-8-BL-10	277 V	1	20 W	LED / 3000K / 90 CRI	20 VA	1700	DIMMING	CEILING SURFACE	0'-3.94" OFH
ES1EM	EXTERIOR 3.94" LONG, 3.74" WIDE SURFACE MOUNTED CYLINDER, IP66 WET RATED, 1700 LUMENS, 60 DEGREE BEAM SPREAD, WITH INTEGRAL EMERGENCY BATTERY BACKUP	BINA LIGHTING	A-CYL66-S-RD-20W-30K-60D-HC-BL-8-10-EM10	277 V	1	20 W	LED / 3000K / 90 CRI	20 VA	1700	DIMMING	CEILING SURFACE	0'-3.94" OFH
EW1EM	EXTERIOR WALL MOUNTED SCONCE, DIRECT OPTICS, TYPE II DISTRIBUTION, TRIANGLE FASCIA, WITH INTEGRAL EMERGENCY BATTERY BACKUP	KIM LIGHTING	CY2-25-3K8-1-2-UNV-BLT-T-FPP-EM	277 V	1	40 W	LED / 3000K / 80 CRI	40 VA	3500	0-10V TO 10%	WALL SURFACE	8'-0" BOF UON
EW2EM	EXTERIOR MULLION MOUNTED CYLINDER WITH REMOTE EMERGENCY INVERTER BACKUP, INTEGRAL DRIVER, 30 DEGREE OPTICS, MOUNTING MODIFICATION	HK LIGHTING	FIXTURE: ZWL16-IR1-5-B-UNIV-10W-30-M-12-LVR ACCESSORY: SURFACE MOUNT BOX CB3.5 FOR MOUNTING TO MULLION	277 V	1	10 W	LED / 3000K / 80 CRI	10 VA	1000	ELV TO 10%	MULLION MOUNTED	BOF 0'-6" ABOVE DOOR FRAME
EW3	4' LONG WALL MOUNTED CANTILEVERED WALL WASH LINEAR, 1.13" WIDE, 6" LONG ARMS, MOUNTED END-TO-END FOR A CONTINUOUS LOOK	INSIGHT LIGHTING	ESX-LO-30K-DL-EA-6-48-DIM-TBL-ILV-HCRI	277 V	1	17 W	LED / 3000K / 90 CRI	17 VA	1610	0-10V	SCREEN SURFACE	9'-0" BOF UON

PHOTOMETRIC GENERAL NOTES

1. THE PHOTOMETRIC GRID IS NO GREATER THAN TEN (10) FEET BY TEN (10) FEET AND PROVIDES LIGHTING LEVELS AT GRADE AND DIRECTLY UNDER THE FIXTURES.
2. ILLUMINANCE VALUES SHOWN SHOULD BE CONSIDERED INITIAL USING A LIGHT LOSS FACTOR OF 1.0.
3. ILLUMINANCE VALUES SHOWN HERE REPRESENT LIGHTING FROM LUMINAIRES SHOWN EXPLICITLY ON THIS DRAWING.
4. REFER TO LIGHTING FIXTURE SCHEDULE FOR MOUNTING HEIGHT.
5. SIGNAGE LIGHTING SHALL BE APPROVED AS PART OF A SEPARATE SIGN PERMIT. LUMINAIRES SHALL BE SHIELDED AND DIRECTED TO AVOID GLARE AND OVERSPILL ONTO ADJACENT PROPERTY.
6. FOR ALL PARKING LOTS, MAXIMUM POLE MOUNTING HEIGHT IS LESS THAN 40-FEET ABOVE FINISHED GROUND WITH MAXIMUM 10 FOOTCANDLES. FOR ALL BUILDING MOUNTED LIGHTING, FIXTURES HAVE 3500 LM OR LESS OUTPUT. FOR ALL WALKWAY AND GENERAL SITE LIGHTING, MAXIMUM MOUNTING HEIGHT IS 25 FEET OR LESS WITH 3500 LM OUTPUT OR LESS.

PHOTOMETRIC LIGHTING SEQUENCE OF OPERATION

CONTROL SEQUENCE	ON	OFF	SENSOR TYPE	TIME OUT	DIMMING	NOTES
ET1	TIMECLOCK AUTOMATIC ON 30 MINUTES PRIOR TO SUNSET, TIMECLOCK AUTOMATIC ON AT 6AM.	TIMECLOCK AUTOMATIC OFF 30 MINUTES AFTER SUNRISE, OFF AFTER MIDNIGHT	NONE	N/A	DIMMING	

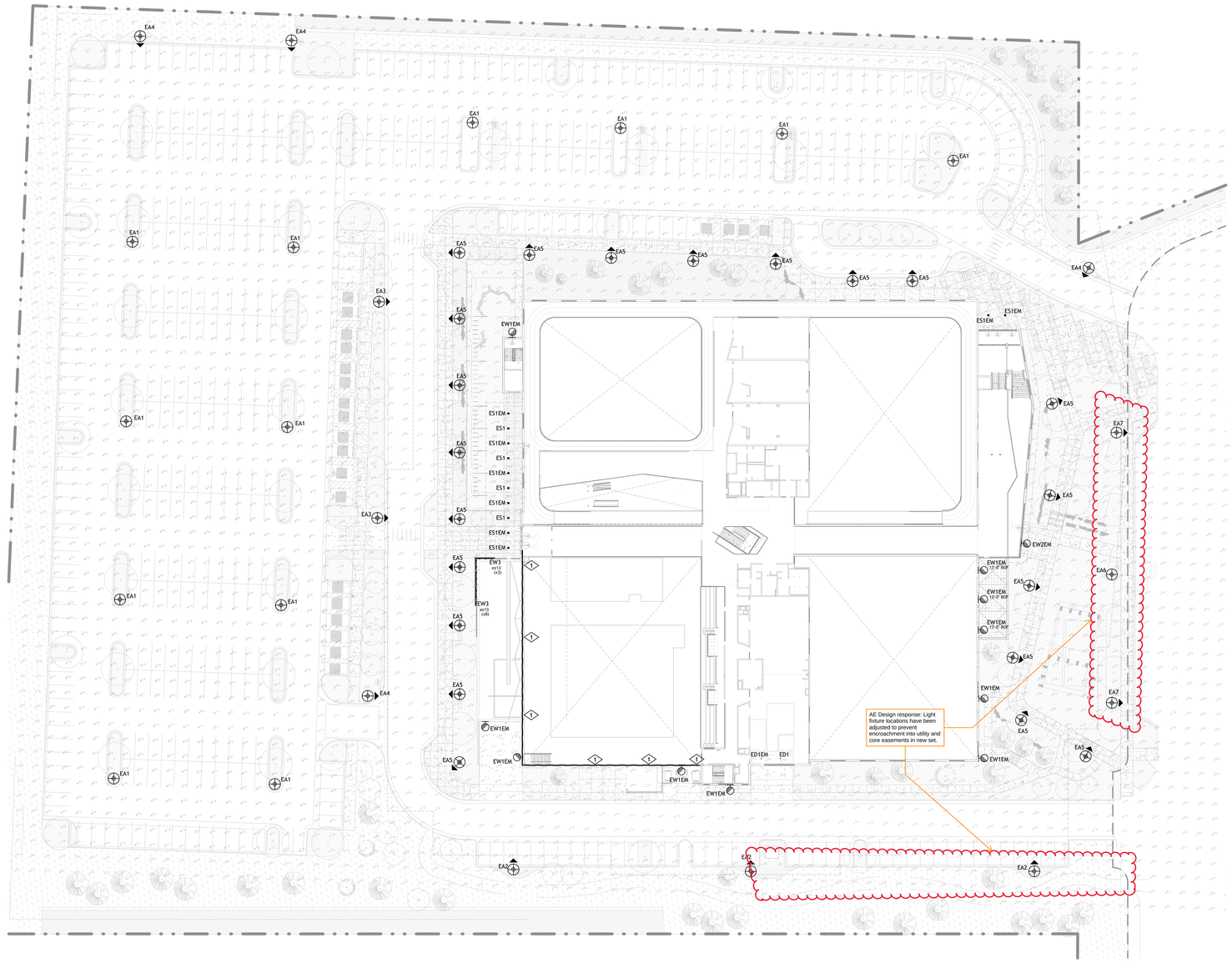
SITE SEQUENCE OF OPERATIONS

THE FOLLOWING CONTROL SEQUENCE OF OPERATIONS ARE UTILIZED IN THIS PLAN. REFER TO PLAN AND/OR ZONE/RELAY SCHEDULE FOR SPECIFIC ASSOCIATED SEQUENCE.

ET1

Statistics

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
OVERALL SITE	+	1.4 fc	19.4 fc	0.0 fc	N/A	N/A
PARKING	+	1.7 fc	3.0 fc	0.3 fc	10.0:1	5.7:1



AE Design response: Light fixture locations have been adjusted to prevent encroachment into utility and core easements in new set.

PRIVATE LIGHTING MAY NOT ENCROACH INTO UTILITY EASEMENTS AND CORE EASEMENTS.

NORTH

1 | LIGHTING PHOTOMETRIC PLAN
LP100 | 1" = 30'-0"

BARKER RINKER SEACAT ARCHITECTURE
brsarch.com

TOWN OF CASTLE ROCK PARKS & RECREATION

CASTLE ROCK SPORT CENTER
Castle Rock, Colorado

AE DESIGN
Integrated Lighting, Technology and Electrical Solutions
1900 Wazee Street Suite #205
Denver, CO 80202 303.296.3034
aedesign-inc.com Proj #:6090.00

Project Number: 2020.026
Issue: Construction Documents
Date: NOVEMBER 8, 2024
Drawn By: CW, JF
Checked By: MS, KM, AW, JM, LK
Revisions:
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Sheet title:
PHOTOMETRIC LIGHTING PLAN

LP100

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