CENTENNIAL VALLEY BUSINESS PARK QUANTUM PUD AMENDMENT 1

PLANNED UNIT DEVELOPMENT AMENDMENT

1450 INFINITE DRIVE

CITY OF LOUISVILLE

COUNTY OF BOULDER, STATE OF COLORADO

CONTACTS:

PREPARED FOR: STEELWAVE, LLC
PREPARED BY: KIMLEY-HORN AND ASSOCIATES, INC.

DEVELOPER:
STEELWAVE, LLC
101 CALIFORNIA STREET, SUITE 800
SAN FRANCISCO, CA 94111
TEL: 303-327-9729
CONTACT: PAUL GIOVANNETTI

ARCHITECT:
MOA ARCHITECTURE
414 14TH STREET, SUITE 300
DENVER, CO 80202
TEL: (303) 327-9729
CONTACT: PAUL GIBSON

ENGINEER
KIMLEY-HORN AND ASSOCIATES, INC.
3801 AUTOMATION WAY, SUITE 210
FORT COLLINS, CO 80525
TEL: (303) 228-2300
CONTACT: CAITLIN SHEAHAN, P.E

LANDSCAPE ARCHITECT
NORRIS DESIGN
1101 BANNOCK STREET
DENVER, CO 80204
TEL: (303) 892-1166
CONTACT: MATT SMALL, PLA

LEGAL DESCRIPTION

LOT 1, CENTENNIAL VALLEY BUSINESS PARK FILING NO. 4, LOCATED IN THE SECTION 13, T1S, R70W OF THE 6TH P.M., COUNTY OF BOULDER, STATE OF COLORADO

BENCHMARK

ELEVATIONS SHOWN HEREON ARE BASED UPON THE TRIMBLE VRS NETWORK AND ARE ON NAVD 88 DATUM. THE ONSITE BENCHMARK IS TEH NORTHEAST CORNER OF LOT 1, CENTENNIAL VALLEY BUSINESS PARK WITH AN ELEVATION OF 5567.62 FEET, NAVD 88 DATUM.

BASIS OF BEARINGS

THE SOUTHERLY LINE OF LOT 1, CENTENNIAL VALLEY BUSINESS PARK FILING NO. 4, BEING MONUMENTED AS SHOWN HEREON, WITH THE LINE ASSUMED TO BEAR N67°29'55"W.

FLOOD PLAIN NOTE

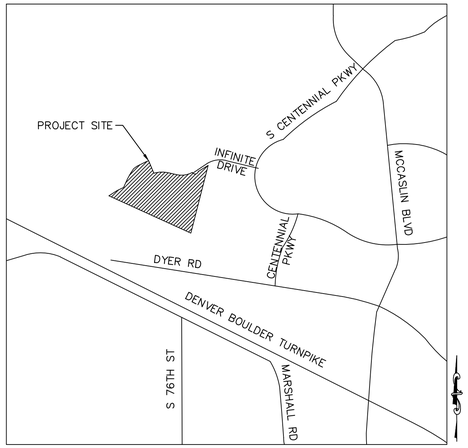
THIS PROPERTY LIES IN ZONE X OF THE FLOOD INSURANCE RATE MAP, COMMUNITY PANEL NUMBER 08013C0581J AND DATED DECEMBER 18, 2012 – SUBJECT PROPERTY IS NOT IN A SPECIAL FLOOD HAZARD AREA.

CERTIFICATION STATEMENT:

I, CAITLIN SHEAHAN, HEREBY AFFIRM THAT THIS PLANNED UNIT DEVELOPMENT AMENDMENT WAS PREPARED UNDER MY DIRECT SUPERVISION, IN ACCORDANCE WITH ALL APPLICABLE CITY OF LOUISVILLE AND STATE OF COLORADO STANDARDS AND STATUTES, RESPECTIVELY; AND THAT I AM FULLY RESPONSIBLE FOR THE ACCURACY OF ALL DESIGN, REVISIONS, AND RECORD CONDITIONS THAT I HAVE NOTED ON THESE PLANS.

ORIGINAL FIELD SURVEY:

DREXEL, BARRELL & CO. ENGINEERS/SURVEYORS
PROJECT NUMBER: S5778-5A
DATE: MARCH 17, 2022



VICINITY MAP
1" = 1000'

SHEET LIST TABLE	
SHEET NO.	SHEET NAME
1	COVER SHEET
2	GENERAL NOTES
3	OVERALL SITE PLAN
4	SITE PLAN
5	GRADING PLAN
6	UTILITY PLAN
7	STORM SEWER STRUCTURE TABLE
8	PAVING DETAILS
9	CONSTRUCTION DETAILS
10	CONSTRUCTION DETAILS
11	CONSTRUCTION DETAILS
12	CONSTRUCTION DETAILS
13	CONSTRUCTION DETAILS
14-18	LANDSCAPE PLANS
19-21	ARCHITECTURAL SHEETS

SCHEDULE

TOTAL FLOOR AREA:	199,021 SQ. FT.
DWELLING UNITS:	N/A
LAND AREA:	884,596 SQ. FT. OR ±20.31 ACRES (AFTER ROW DEDICATION)
PARKING SPACES PROVIDED:	408
PARKING SPACES REQUIRED:	399 (1 SPACE/500 SQFT)
LAND USE INTENSITY:	N/A
ZONE:	PCZD-PLANNED COMMERCIAL
EXISTING LAND USE:	R&D, OFFICE AND MANUFACTURING
PERCENT OPEN SPACE:	45.3%

CITY COUNCIL CERTIFICATE

APPROVED THIS _____ DAY OF _____, 20___ BY THE CITY COUNCIL OF THE CITY OF LOUISVILLE, COLORADO.
RESOLUTION NO. _____,SERIES_____

_____
MAYOR SIGNATURE (CITY SEAL)

_____
CITY CLERK SIGNATURE

CLERK AND RECORDER CERTIFICATE

(COUNTY OF BOULDER, STATE OF COLORADO)
I HEREBY CERTIFY THAT THIS INSTRUMENT WAS FILED IN MY OFFICE AT _____ O'CLOCK, ___M., THIS _____ DAY OF _____, 20____, AND IS RECORDED IN PLAN FILE _____, FEE _____ PAID.
_____ FILM NO. _____ RECEPTION.

_____
CLERK AND RECORDER

_____
DEPUTY

OWNERSHIP SIGNATURE BLOCK

BY SIGNING THIS PUD, THE OWNER ACKNOWLEDGES AND ACCEPTS ALL THE REQUIREMENTS AND INTENT SET FORTH IN THIS PUD. WITNESS MY/OUR HAND(S) SEAL(S) THIS ___ DAY OF _____, 20__.

_____
OWNER NAME AND SIGNATURE

_____ _____ (NOTARY SEAL)
NOTARY NAME (PRINT)

_____
NOTARY SIGNATURE

MY COMMISSION EXPIRES _____

PLANNING COMMISSION CERTIFICATE

APPROVED THIS __ DAY OF _____, 20__ BY THE PLANNING COMMISSION OF THE CITY OF LOUISVILLE, COLORADO.
RESOLUTION NO. _____, SERIES _____

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

NO.	REVISION	BY	DATE	APPR.

Kimley»Horn

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3801 AUTOMATION WAY, SUITE 210
FORT COLLINS, COLORADO 80525 (303) 228-2300

DESIGNED BY: HPC
DRAWN BY: NAM
CHECKED BY: CARS
DATE: 5/13/2022

CENTENNIAL VALLEY BUSINESS PARK
QUANTUM PUD AMENDMENT 1
1450 INFINITE DRIVE, LOUISVILLE, COLORADO
PLANNED UNIT DEVELOPMENT AMENDMENT
COVER SHEET

PRELIMINARY
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Kimley-Horn and Associates, Inc.

PROJECT NO.
196045001

SHEET
1 OF 13

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This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared.

ENGINEERING CONSTRUCTION NOTES

1. ALL EXISTING UTILITIES SHOWN ARE LOCATED ACCORDING TO THE INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME THE DRAWINGS WERE PREPARED AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR THE ENGINEER. GUARANTEE IS NOT MADE THAT ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN OR THAT THE LOCATION OF THOSE SHOWN ARE ENTIRELY ACCURATE. THE LOCATIONS SHOWN ARE FOR BIDDING PURPOSES ONLY. FINDING THE ACTUAL LOCATION OF ANY EXISTING UTILITIES IS THE CONTRACTORS RESPONSIBILITY AND SHALL BE DONE BEFORE HE COMMENCES ANY WORK IN THE VICINITY. FURTHERMORE, THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES DUE TO THE CONTRACTORS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. THE OWNER OR ENGINEER WILL ASSUME NO LIABILITY FOR ANY DAMAGES SUSTAINED OR COST INCURRED BECAUSE OF THE OPERATIONS IN THE VICINITY OF EXISTING UTILITIES OR STRUCTURES, NOR FOR TEMPORARY BRACING AND SHORING OF SAME. IF IT IS NECESSARY TO SHORE, BRACE, SWING OR RELOCATE A UTILITY, THE UTILITY COMPANY OR DEPARTMENT AFFECTED SHALL BE CONTACTED AND THEIR PERMISSION OBTAINED REGARDING THE METHOD TO USE FOR SUCH WORK.
2. IT IS THE CONTRACTORS RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES WHICH MAY HAVE BURIED OR AERIAL UTILITIES WITHIN OR NEAR THE CONSTRUCTION AREA BEFORE COMMENCING WORK. THE CONTRACTOR SHALL PROVIDE 48 HOURS MINIMUM NOTICE TO ALL UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION.
3. CONTRACTOR SHALL CONTACT UTILITY NOTIFICATION CENTER FOR THE LOCATION OF UNDERGROUND UTILITIES AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION (1-800-922-1987).
4. CONSTRUCTION SHALL COMPLY WITH ALL GOVERNING CODES AND BE CONSTRUCTED TO SAME.
5. THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ALL REQUIRED CONSTRUCTION PERMITS AND BONDS PRIOR TO CONSTRUCTION.
6. THE CONTRACTOR SHALL RESTORE ALL DISTURBED VEGETATION IN KIND, UNLESS SHOWN OTHERWISE.
7. ALL PAVING, CONSTRUCTION, MATERIALS, AND WORKMANSHIP WITHIN THE PUBLIC RIGHT-OF-WAY OR EASEMENT SHALL CONFORM TO THE CITY OF LOUISVILLE'S SPECIFICATIONS AND STANDARDS. (LATEST EDITION)
8. CONTRACTOR SHALL PROVIDE ALL LIGHTS, SIGNS, BARRICADES, FLAGGERS, AND ALL OTHER DEVICES NECESSARY TO PROVIDE FOR PUBLIC SAFETY IN ACCORDANCE WITH MUTCD CONSTRUCTION AREA TRAFFIC CONTROL.

ENGINEERING DEMOLITION NOTES

1. ALL DEMOLITION SHALL BE CARRIED OUT IN A SAFE MANNER AND IN STRICT ACCORDANCE WITH OSHA REGULATIONS.
2. ALL CONDITIONS SHOWN TO BE "EXISTING" SHALL BE VERIFIED IN THE FIELD BY THE GENERAL CONTRACTOR PRIOR TO START OF CONSTRUCTION. ANY DISCREPANCIES SHALL BE NOTED AND SUBMITTED TO THE OWNER AND THE ENGINEER FOR REVIEW. CHANGES TO THE ORIGINAL DESIGN OF THIS PROJECT DUE TO EXISTING SITE CONDITIONS MUST BE APPROVED BY BOTH THE OWNER AND THE ENGINEER PRIOR TO MAKING ANY CHANGES.
3. THE CONTRACTOR SHALL FIELD VERIFY THE EXTENT OF DEMOLITION.
4. WHEN UTILITIES ARE REMOVED, CAP AND SEAL A MINIMUM OF 8" BELOW FINISH GRADE.

ENGINEERING SITE NOTES

1. CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF ALL PROPERTY CORNERS.
2. CONTRACTOR SHALL MATCH PROPOSED CURB AND GUTTER, CONCRETE, AND PAVEMENT TO EXISTING GRADE AT ALL TIE IN LOCATIONS.
3. CONTRACTOR SHALL REMOVE PAVEMENT AND CONCRETE IN ACCORDANCE WITH SPECIFICATIONS OF THE CITY OF LOUISVILLE AND/OR THE COLORADO STATE DEPARTMENT OF TRANSPORTATION.
4. THE EARTHWORK FOR ALL BUILDING FOUNDATIONS AND SLABS SHALL BE IN ACCORDANCE WITH ARCHITECTURAL BUILDING PLANS AND SPECIFICATIONS.
5. CONTRACTOR SHALL REFER TO BUILDING PLANS AND SPECIFICATIONS FOR ACTUAL LOCATION OF ALL UTILITY ENTRANCES, TO INCLUDE, SANITARY SEWER LATERALS, DOMESTIC AND FIRE PROTECTION WATER SERVICE, ELECTRICAL, AND TELEPHONE SERVICE. CONTRACTOR SHALL COORDINATE INSTALLATION OF UTILITIES IN SUCH A MANNER AS TO AVOID CONFLICTS AND ASSURE PROPER DEPTHS ARE ACHIEVED, AS WELL AS, COORDINATE WITH ANY UTILITY COMPANIES FOR APPROVED LOCATIONS AND SCHEDULING OF TIE-INS/CONNECTIONS TO THEIR FACILITIES.
6. CONTRACTOR IS RESPONSIBLE FOR REPAIRING THE DAMAGE DONE TO ANY EXISTING ITEM DURING CONSTRUCTION, SUCH AS, BUT NOT LIMITED TO, DRAINAGE, UTILITIES, PAVEMENT, STRIPING, CURB, ETC. REPAIRS SHALL BE EQUAL TO, OR BETTER THAN, EXISTING CONDITIONS. CONTRACTOR IS RESPONSIBLE TO DOCUMENT ALL EXISTING DAMAGE AND NOTIFY CONSTRUCTION MANAGER PRIOR TO CONSTRUCTION START.
7. CONTRACTOR TO REMOVE OR RELOCATE, WHEN APPLICABLE, ALL EXISTING BUILDINGS, FOUNDATIONS, BASEMENTS, CONNECTING IMPROVEMENTS, DRAIN PIPES, SANITARY SEWER PIPES, POWER POLES, AND GUY WIRES, WATER METERS AND WATER LINES, WELLS, SIDEWALKS, SIGN POLES, UNDERGROUND GAS, SEPTIC TANKS, AND ASPHALT, SHOWN AND NOT SHOWN, WITHIN CONSTRUCTION LIMITS AND WHERE NEEDED, TO ALLOW FOR NEW CONSTRUCTION AS SHOWN.
8. FOR ADDITIONAL ROOT PROTECTION MEASURES, HYDRO-EXCAVATION OR POTHOLEING SHALL OCCUR ALONG THE FUTURE EDGE OF THE DRIVE APPROACH. THE TRENCH SHALL BE A FOOT WIDE AND AS DEEP AS FUTURE EXCAVATION FOR THE DRIVE APPROACH REQUIRES. CONTACT CITY FORESTRY (CHRISL@LOUISVILLECO.GOV) TO INSPECT RESULTS OF HYDRO-EXCAVATION. SOME ROOT PRUNING OR CUTTING MAY BE ALLOWED, BUT IS UP TO THE DISCRETION OF CITY FORESTRY STAFF. ANY ROOTS GREATER THAN 2 INCHES IN DIAMETER SHALL BE PRESERVED AND PROTECTED TO THE EXTENT REASONABLY FEASIBLE.

ENGINEERING PAVING NOTES

1. CONTRACTOR SHALL ADJUST AND/OR CUT EXISTING PAVEMENT AS NECESSARY TO ASSURE A SMOOTH FIT AND CONTINUOUS GRADE.
2. ALL CONCRETE SIDEWALKS SHALL HAVE CONTROL JOINTS CUT ON 5' CENTERS AND EXPANSION JOINTS PLACED ON 20' CENTERS. CONCRETE PAVEMENT JOINTS SHALL BE SPACED AT 12' CENTERS MAXIMUM.
3. ALL AREAS INDICATED AS PAVEMENT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE TYPICAL PAVEMENT SECTIONS.
4. WHERE NEW PAVEMENT MEETS THE EXISTING PAVEMENT, THE CONTRACTOR SHALL SAW CUT THE EXISTING PAVEMENT A MINIMUM 2" DEEP FOR A SMOOTH AND STRAIGHT JOINT AND MATCH THE EXISTING PAVEMENT ELEVATION WITH THE PROPOSED PAVEMENT UNLESS OTHERWISE INDICATED.

ENGINEERING GRADING NOTES

1. CONTOURS ON SIDEWALKS AND PRIVATE/PUBLIC ROADWAYS ARE TO FINISH GRADE.
2. FOR GROUND TREATMENT OF ALL OPEN AREAS WITHIN THE PROJECT SITE, REFER TO LANDSCAPE PLANS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF DUST AND DIRT RISING AND SCATTERING IN THE AIR DURING CONSTRUCTION AND SHALL PROVIDE WATER SPRINKLING OR OTHER SUITABLE METHODS OF CONTROL. THE CONTRACTOR SHALL COMPLY WITH ALL GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION.
4. THE CONTRACTOR SHALL GRADE THE SITE TO THE ELEVATIONS INDICATED AND SHALL REGRADE WASHOUTS WHERE THEY OCCUR AFTER EVERY RAINFALL UNTIL A GRASS STAND OR OTHER FINAL LANDSCAPE PLANTING IS WELL ESTABLISHED.

ENGINEERING DRAINAGE AND STORM WATER NOTES

1. ON-SITE STORM SEWER SYSTEM HAS BEEN PROVIDED TO MAINTAIN THE EXISTING DRAINAGE PATTERNS.
2. ALL ON-SITE STORM SEWER IS PRIVATE, UNLESS OTHERWISE NOTED.
3. EXISTING DRAINAGE STRUCTURES TO BE INSPECTED AND REPAIRED AS NEEDED,
4. THE CONTRACTOR SHALL DE-SILT ALL DRAINAGE STRUCTURES AS REQUIRED DURING AND AT THE END OF CONSTRUCTION TO PROVIDE POSITIVE DRAINAGE FLOWS.
5. IF DEWATERING IS REQUIRED, THE CONTRACTOR SHALL OBTAIN ANY APPLICABLE REQUIRED PERMITS. THE CONTRACTOR IS TO COORDINATE WITH THE OWNER PRIOR TO EXCAVATION.

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CHECKED BY: CARS
DATE: 5/13/2022

CENTENNIAL VALLEY BUSINESS PARK
QUANTUM PUD AMENDMENT 1
1450 INFINITE DRIVE, LOUISVILLE, COLORADO
PLANNED UNIT DEVELOPMENT AMENDMENT
GENERAL NOTES

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2 OF 13

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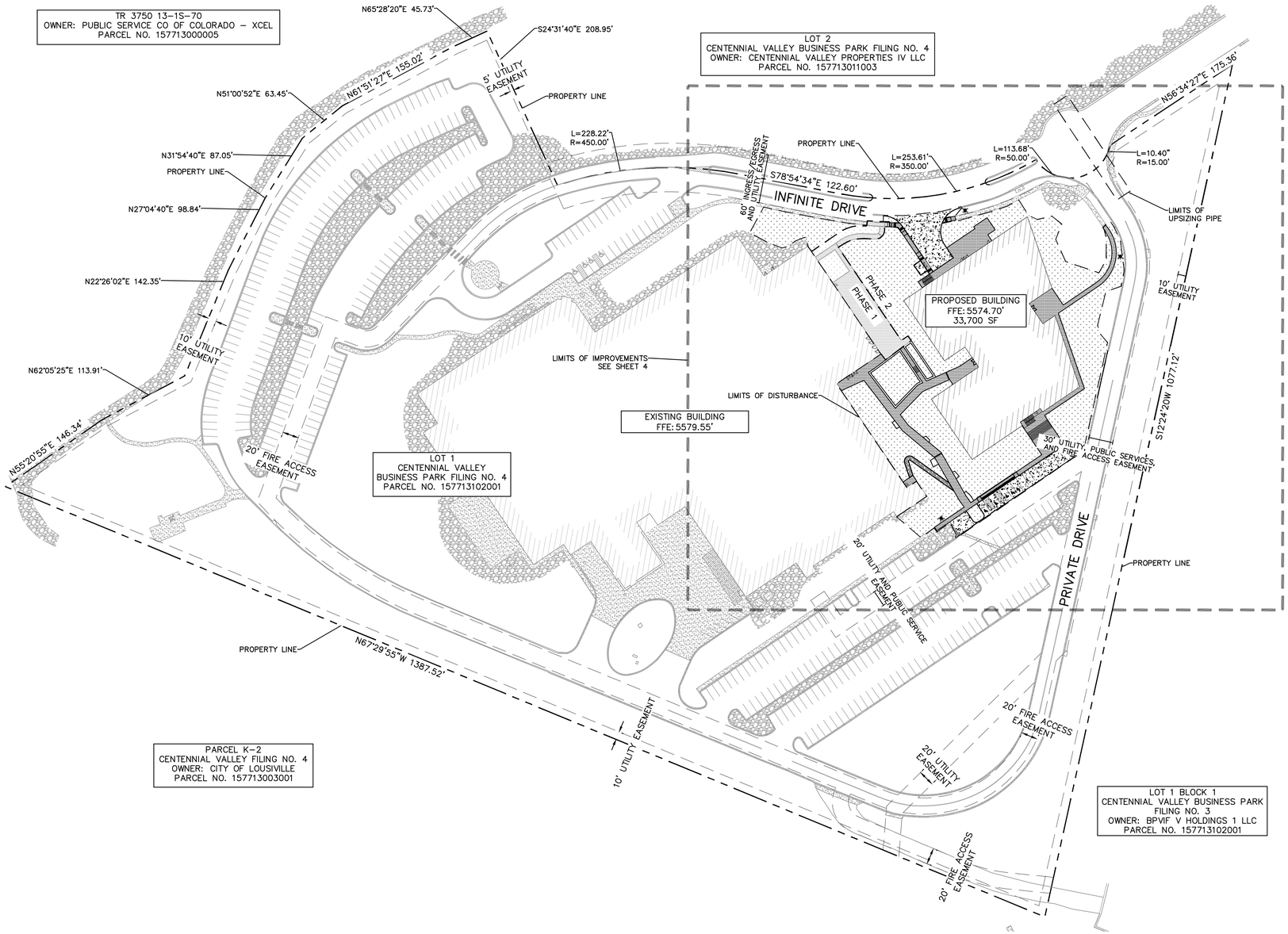

LEGEND:

- PROPERTY LINE
- EXISTING EASEMENT LINE
- PHASE LINE
- LIMITS OF DISTURBANCE
- EXISTING GRAVEL
- PROPOSED SIDEWALK CONCRETE
- EXISTING CONCRETE
- PROPOSED HEAVY DUTY CONCRETE
- PROPOSED LANDSCAPE AREA
- PROPOSED GRAVEL PATH

NOTES:

1. PROPOSED IMPROVEMENTS ARE PRIVATE. CITY OF LOUISVILLE IS NOT RESPONSIBLE FOR THE MAINTENANCE OF PROPOSED IMPROVEMENTS.
2. LIMITS OF DISTURBANCE =105,873 SQFT

NORTH

GRAPHIC SCALE IN FEET
0 35 70 140

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CENTENNIAL VALLEY BUSINESS PARK QUANTUM PUD AMENDMENT 1

1450 INFINITE DRIVE, LOUISVILLE, COLORADO

PLANNED UNIT DEVELOPMENT AMENDMENT

OVERALL SITE PLAN

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3 OF 13

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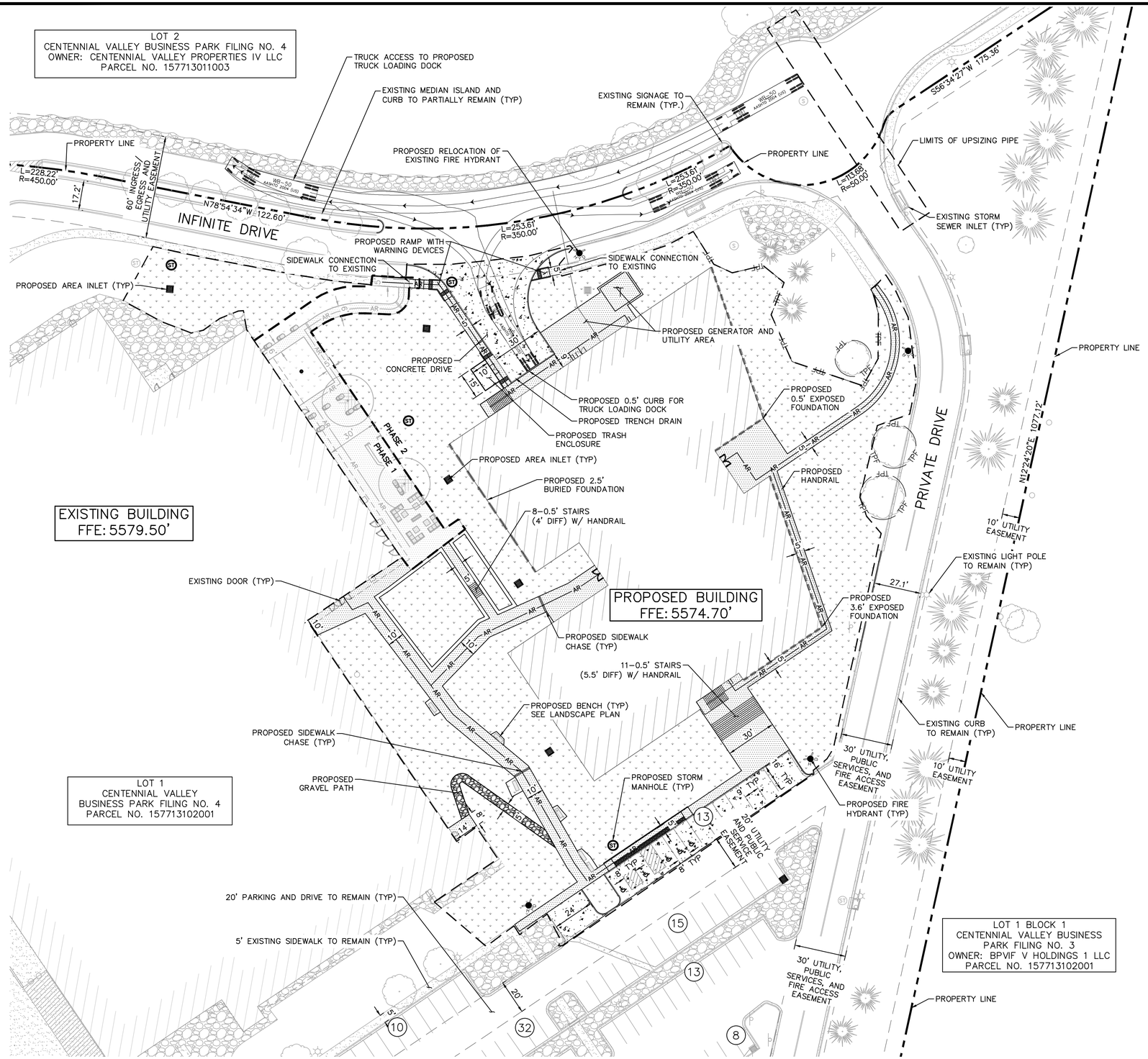

LEGEND:

- PROPERTY LINE
- EXISTING EASEMENT LINE
- LIMITS OF DISTURBANCE
- PROPOSED CURB AND GUTTER
- EXISTING LIGHT POLE
- EXISTING TREES TO REMAIN
- EXISTING FIRE HYDRANT
- PROPOSED FIRE HYDRANT
- PROPOSED STORM MANHOLE
- PROPOSED AREA INLET
- EXISTING GRAVEL
- PROPOSED SIDEWALK CONCRETE
- EXISTING CONCRETE
- PROPOSED HEAVY DUTY CONCRETE
- PROPOSED LANDSCAPE AREA
- PROPOSED GRAVEL PATH
- AR — ACCESSIBLE ROUTE
- PROPOSED HANDRAIL
- TPF — INSTALL TREE PROTECTION FENCING PER LANDSCAPE PLAN
- PROPOSED EXPOSED FOUNDATION
- PROPOSED BURIED FOUNDATION
- PHASE LINE
- (#) PARKING COUNTS

PARKING	
EXISTING BUILDING SF	165,320
PROPOSED BUILDING SF	33,700
TOTAL BUILDING SF	199,200
REQUIRED SPACES FOR RESEARCH SPACE (1SP/500SF)	399
EXISTING STANDARD SPACES	468
REMOVED STANDARD SPACES	60
REQUIRED ACCESSIBLE SPACES	9 (2 VAN)
PROPOSED ACCESSIBLE SPACES	9 (2 VAN)
TOTAL PARKING SPACES	408

SITE PLAN NOTES:

1. PROPOSED IMPROVEMENTS ARE PRIVATE. CITY OF LOUISVILLE IS NOT RESPONSIBLE FOR THE MAINTENANCE OF PROPOSED IMPROVEMENTS.
2. SIXTY EXISTING PARKING SPACES ARE PROPOSED TO BE REMOVED.
3. FIVE EXISTING PARKING SPACES ARE PROPOSED TO BE RESTRIPED AS ACCESSIBLE SPACES. TWO EXISTING PARKING SPACES ARE PROPOSED TO BE RESTRIPED AS ACCESS AISLES.
4. LIMITS OF DISTURBANCE = 105,873 SQFT

GRAPHIC SCALE IN FEET
0 15 30 60

NORTH

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CENTENNIAL VALLEY BUSINESS PARK QUANTUM PUD AMENDMENT 1

1450 INFINITE DRIVE, LOUISVILLE, COLORADO
PLANNED UNIT DEVELOPMENT AMENDMENT
SITE PLAN

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4 OF 13

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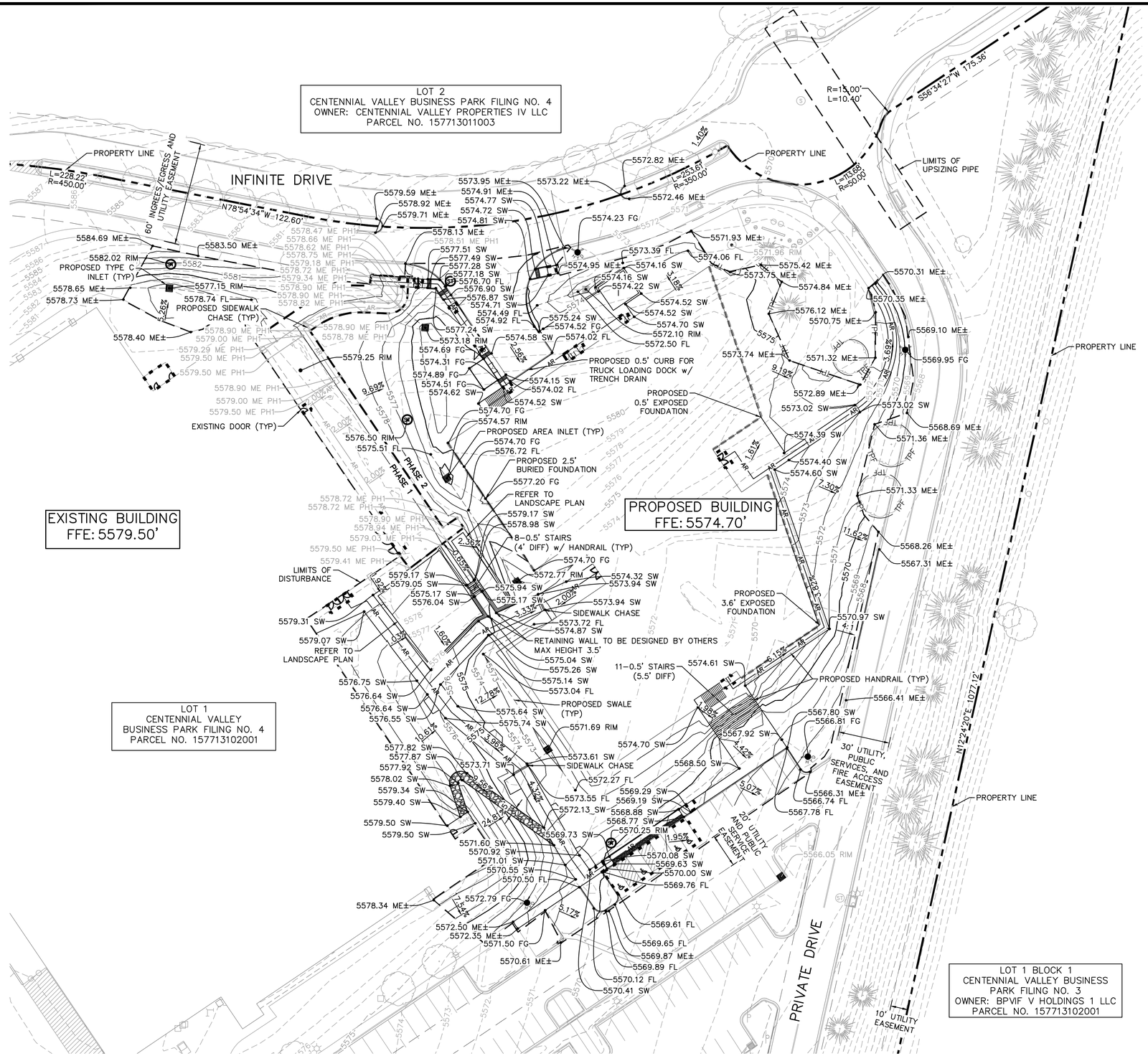
ANY CONFLICT WITH THE COMMENTS AND PROPOSED PRACTICES CONTAINED HEREIN, AS AN INSTRUMENT OF SERVICE, IS UNKNOWN UNLESS FOR THE SPECIFIC PURPOSE AND ON ONLY FOR WHICH IT WAS PREPARED. REUSE OF AND IMPROPER RELIANCE ON THIS DOCUMENT WITHOUT WRITTEN AUTHORIZATION AND ADAPTATION BY KIMLEY-HORN AND ASSOCIATES, INC. SHALL BE WITHOUT LIABILITY TO KIMLEY-HORN AND ASSOCIATES, INC.



LEGEND:

- PROPERTY LINE
- LIMITS OF DISTURBANCE
- EXISTING EASEMENT LINE
- PROPOSED MAJOR CONTOURS (10' MAJOR)
- PROPOSED MINOR CONTOURS (2' MINOR)
- EXISTING MAJOR CONTOURS (10' MAJOR)
- EXISTING MINOR CONTOURS (2' MINOR)
- DRAINAGE SLOPE DIRECTION
- PROPOSED CURB AND GUTTER
- ACCESSIBLE ROUTE
- PROPOSED SWALE
- PROPOSED EXPOSED FOUNDATION
- PROPOSED BURIED FOUNDATION
- TREE PROTECTION FENCING
- ACCESSIBLE PARKING AND ACCESS. SLOPES NOT TO EXCEED 2% IN THIS AREA
- PHASE LINE
- PROPOSED AREA INLET
- EXISTING FIRE HYDRANT
- PROPOSED FIRE HYDRANT
- PROPOSED STORM MANHOLE
- EXISTING LIGHT POLE
- EXISTING TREES

ABBREVIATED LEGEND:

FG	–	FINISHED GRADE
RIM	–	TOP OF STRUCTURE
FL	–	FLOWLINE
ME	–	MATCH EXISTING
FFE	–	FINISHED FLOOR ELEVATION
SW	–	SIDEWALK
ME PH1	–	MATCH EXISTING FROM PHASE 1 CONSTRUCTION

NOTES:

1. PROPOSED IMPROVEMENTS ARE PRIVATE. CITY OF LOUISVILLE IS NOT RESPONSIBLE FOR THE MAINTENANCE OF PROPOSED IMPROVEMENTS.
2. LIMITS OF DISTURBANCE = 105,873 SQFT

CUT FILL VOLUMES*:

CUT:	3179.7 CY (RAW)
FILL:	3484.1 CY (RAW)
NET:	304.4 CY <FILL>

*THE CONTRACTOR SHALL MAKE THEIR OWN DETERMINATION OF THE EARTHWORK QUANTITIES INVOLVED AND BASE THEIR BID ON THEIR OWN ESTIMATE.
*CONTRACTOR SHALL OBTAIN A HAUL ROUTE/ENCROACHMENT PERMIT WHEN ESTIMATED DIRECT HAULS (DIRT, DEMOLITION DEBRIS, ETC.) OF 5,000 CUBIC YARDS OR MORE REQUIRED USE OF THE PUBLIC RIGHT-OF-WAYS.

GRAPHIC SCALE IN FEET
0 15 30 60

NORTH

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CENTENNIAL VALLEY BUSINESS PARK QUANTUM PUD AMENDMENT 1

1450 INFINITE DRIVE, LOUISVILLE, COLORADO
PLANNED UNIT DEVELOPMENT AMENDMENT
GRADING PLAN

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5 OF 13

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LOT 2
CENTENNIAL VALLEY BUSINESS PARK FILING NO. 4
OWNER: CENTENNIAL VALLEY PROPERTIES IV LLC
PARCEL NO. 157713011003

MH-02
RIM: 5582.02
18" RCP INV IN W: 5572.69
10" PVC INV IN S: 5572.69
21" RCP INV OUT E: 5572.59

PROPERTY LINE
L=228.22'
R=450.00'
S82°03'49"E 38.09'

21 LF OF
18" RCP @ 1.04%

EX MH-04
RIM: 5575.12
18" RCP INV IN W: 5573.30
12" RCP INV IN SW: 5573.49
18" RCP INV OUT E: 5572.91

60' INGRESS, EGRESS AND UTILITY EASEMENT

L=253.61'
R=350.00'

164 LF OF
21" RCP @ 1.57%

14 LF OF
10" RCP @ 8.00%

CB-01
RIM: 5577.15
10" PVC INV OUT N: 5573.81

CB-06
RIM: 5579.25
8" PVC INV OUT E: 5574.25

MH-01
RIM: 5576.71
21" RCP INV IN W: 5570.02
15" RCP INV IN SW: 5570.02
21" RCP INV OUT E: 5569.92

77 LF OF
8" PVC @ 5.29%

CB-02
RIM: 5573.18
15" RCP INV IN S: 5570.18
8" PVC INV IN W: 5570.18
15" RCP INV OUT NE: 5570.18

MH-04
RIM: 5576.51
15" RCP INV IN SE: 5570.45
15" RCP INV OUT N: 5570.45

UTILITY CROSSING
TOP(SS): 5568.31'
BOP: (ST): 5570.41'
CLEARANCE: 2.10'

PHASE 1
PHASE 2

55 LF OF
15" RCP @ 0.50%

41 LF OF
15" RCP @ 0.50%

31 LF OF
15" RCP @ 0.50%

18 LF OF
10" PVC @ 2.74%

EX CB-01
RIM: 5572.62
10" PVC INV IN SE: 5568.90
21" RCP INV IN W: 5568.90
24" RCP INV OUT NE: 5568.80

PROPOSED TEE CONNECTION TO EXISTING WATER LINE
SEE NOTE 3

PROPOSED 39 LF OF 6" PVC FIRE LINE
PROPOSED 94 LF OF 6" PVC FIRE LINE
PROPOSED 96 LF OF 2" PVC DOMESTIC WATER LINE
PROPOSED RELOCATION OF EXISTING FIRE HYDRANT

37 LF OF
10" PVC @ 5.56%

79 LF OF
21" RCP @ 1.29%

10"X10" TEE
RIM: 5570.63
10" PVC INV IN SE: 5569.40
10" PVC INV IN SW: 5569.40
10" PVC INV OUT NW: 5569.40

RIM: 5569.00
27" RCP INV OUT SE: 5564.81

PROPOSED TRANSFORMER

R=339.45'
L=124.03'

11 LF OF
10" PVC @ 2.74%

78 LF OF
24" RCP @ 1.45%

PROPOSED GAS CONNECTION TO BUILDING
PROPOSED ELECTRICAL CONNECTION TO BUILDING

RD-01
RIM: 5570.78
10" PVC INV OUT NW: 5569.70

PROPOSED DOMESTIC WATER AND FIRE CONNECTION TO BUILDING

PROPOSED SANITARY SEWER CONNECTION TO BUILDING INV: 5568.70'

RIM: 5572.67
10" SLOTTED DRAIN INV IN SW: 5571.43
10" PVC INV OUT NE: 5571.43

PROPOSED FDC

30 LF OF
10" SLOTTED DRAIN @ 0.50%

RIM: 5572.81
10" SLOTTED DRAIN INV OUT NE: 5571.58

RD-02
RIM: 5571.73
8" PVC INV OUT SW: 5571.00

12 LF OF
8" PVC @ 1.68%

45 LF OF
10" PVC @ 0.50%

CB-04
RIM: 5573.38
10" PVC INV OUT NW: 5571.02

CB-03
RIM: 5574.57
10" PVC INV IN SE: 5570.66
15" RCP INV OUT NW: 5570.66

28 LF OF
10" PVC @ 0.50%

15"X8" TEE
RIM: 5572.03
10" PVC INV IN SE: 5570.80
8" PVC INV IN NE: 5570.80
10" PVC INV OUT NW: 5570.80

PROPOSED SANITARY SEWER STUB REROUTING
337 LF OF 4" PVC @ 2.50%

PROPOSED SANITARY SEWER CLEANOUT (TYP)

12 LF OF
8" PVC @ 4.18%

RD-03
RIM: 5570.43
8" PVC INV OUT SW: 5569.70

RD-04
RIM: 5570.43
8" PVC INV OUT SE: 5569.70

CONNECT TO EXISTING SANITARY SEWER CLEANOUT

CB-05
RIM: 5571.69
8" PVC INV IN NE: 5569.20
8" PVC INV OUT SE: 5569.10

86 LF OF
8" PVC @ 4.18%

MH-03
RIM: 5570.25
8" PVC INV IN NW: 5566.34
8" PVC INV OUT E: 5566.24

109 LF OF
8" PVC @ 5.13%

101 LF OF
8" PVC @ 4.18%

MH-05
RIM: 5566.06
8" PVC INV IN W: 5562.01
8" PVC INV IN NW: 5564.06
18" RCP INV OUT E: 5561.81

PROPOSED FIRE HYDRANT (TYP)

PROPOSED 49 LF OF 6" PVC FIRE LINE

PROPOSED TEE CONNECTION TO EXISTING WATER LINE SEE NOTE 3.

PROPOSED 24 LF OF 6" PVC FIRE LINE

20' UTILITY AND PUBLIC SERVICE EASEMENT

30' UTILITY, PUBLIC SERVICES, AND FIRE ACCESS EASEMENT

10' UTILITY EASEMENT

PROPOSED TEE CONNECTION TO EXISTING WATER LINE SEE NOTE 3

PROPOSED BUILDING
FFE: 5574.70'

EXISTING BUILDING
FFE: 5579.50'

LOT 1
CENTENNIAL VALLEY
BUSINESS PARK FILING NO. 4
PARCEL NO. 157713102001

LOT 1 BLOCK 1
CENTENNIAL VALLEY BUSINESS
PARK FILING NO. 3
OWNER: BPVIF V HOLDINGS 1 LLC
PARCEL NO. 157713102001

INFINITE DRIVE

27" RCP @ 0.85%
117 LF OF

CONNECT TO EXISTING TRANSFORMER

S56°34'27"W
175.36'

R=15.00'
L=10.40'

CONNECT TO EXISTING GAS LINE

255 LF PROPOSED GAS LINE

PROPERTY LINE

LIMITS OF UPSIZING PIPE

L=13.88'
R=50.00'

EX CB-03
RIM: 5568.56
24" RCP INV IN W: 5563.82
27" RCP INV IN NW: 5563.82
36" RCP INV OUT SE: 5563.72

260 LF PROPOSED ELECTRIC LINE

CONNECT TO EXISTING SANITARY SEWER MANHOLE INV IN: 5562.64'

PROPOSED FIRE HYDRANT (TYP)

UTILITY CROSSING
TOP(SS): 5565.04'
BOP: (ST): 5569.33'
CLEARANCE: 4.29'

PROPOSED TEE CONNECTION TO EXISTING WATER LINE SEE NOTE 3

PROPOSED 15 LF OF 6" PVC FIRE LINE

PROPERTY LINE

PRIVATE DRIVE

N1°24'20"E 107.12'

STORM SEWER CONTINUATION LEADS TO EXISTING POND SOUTHEAST OF PROPERTY

LEGEND:

- PROPERTY LINE
- LIMITS OF DISTURBANCE
- EXISTING EASEMENT LINE
- SS — EXISTING SANITARY SEWER LINE
- EXISTING STORM WATER LINE
- W — EXISTING WATER LINE
- G — EXISTING GAS LINE
- E — EXISTING ELECTRIC LINE
- T — EXISTING TELECOM LINE
- G — PROPOSED GAS LINE
- E — PROPOSED ELECTRIC LINE
- W — PROPOSED WATER LINE
- F — PROPOSED FIRE LINE
- S — PROPOSED SANITARY SEWER LINE
- PROPOSED STORM WATER LINE
- PHASE LINE
- PROPOSED AREA INLETS
- ST — PROPOSED STORM MANHOLE
- PROPOSED FIRE HYDRANT W/ GATE VALVE
- EXISTING FIRE HYDRANT
- EXISTING LIGHT POLE
- EXISTING TREES TO REMAIN

ABBREVIATED LEGEND:

MH	–	MANHOLE
CB	–	CATCH BASIN
RD	–	ROOF DRAIN
EX	–	EXISTING

NOTES:

1. PROPOSED IMPROVEMENTS ARE PRIVATE. CITY OF LOUISVILLE IS NOT RESPONSIBLE FOR THE MAINTENANCE OF PROPOSED IMPROVEMENTS.
2. LIMITS OF DISTURBANCE = 105,873 SQFT
3. SIZE OF EXISTING WATER LINES TO BE DETERMINED IN FIELD.

GRAPHIC SCALE IN FEET
0 15 30 60

NORTH

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FORT COLLINS, COLORADO 80525 (303) 228-2300

DESIGNED BY: HPC
DRAWN BY: NAM
CHECKED BY: CARS
DATE: 5/13/2022

CENTENNIAL VALLEY BUSINESS PARK QUANTUM PUD AMENDMENT 1

1450 INFINITE DRIVE, LOUISVILLE, COLORADO
PLANNED UNIT DEVELOPMENT AMENDMENT
UTILITY PLAN

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Jun 13, 2022 - 2:04pm nam

STRUCTURE TABLE					
STRUCTURE NAME:	DESCRIPTION:	FINISHED GRADE:	NORTHING AND EASTING:	PIPES IN:	PIPES OUT
CB-01	CDOT TYPE C AREA INLET	5577.146	N: 1231439.3968 E: 3085552.8137		TO MH-02, 10" INV OUT: 5573.81 @ 8.00%
CB-02	CDOT TYPE C AREA INLET	5573.185	N: 1231416.3798 E: 3085702.3183	FROM MH-04, 15" REINFORCED CONCRETE INV IN: 5570.18 @ 0.50% FROM CB-06, 8" INV IN: 5570.18 @ 5.29%	TO MH-01, 15" REINFORCED CONCRETE INV OUT: 5570.18 @ 0.50%
CB-03	ADS NYLOPLAST 10" INLINE DRAIN INLET	5574.571	N: 1231328.3129 E: 3085714.9789	FROM 15"X8" TEE, 10" INV IN: 5570.66 @ 0.50%	TO MH-04, 15" REINFORCED CONCRETE INV OUT: 5570.66 @ 0.50%
CB-04	CDOT TYPE C AREA INLET	5573.380	N: 1231267.7232 E: 3085755.9455		TO 15"X8" TEE, 10" INV OUT: 5571.02 @ 0.50%
CB-05	CDOT TYPE C AREA INLET	5571.689	N: 1231169.7529 E: 3085773.8905	FROM RD-03, 8" INV IN: 5569.20 @ 4.18%	TO MH-03, 8" INV OUT: 5569.10 @ 4.18%
CB-06	NYLOPLAST 10" DRAIN BASIN	5579.250	N: 1231391.3656 E: 3085629.4498		TO CB-02, 8" INV OUT: 5574.25 @ 5.29%
MH-01	5' DIAMETER MANHOLE WITH SOLID LID	5576.706	N: 1231443.4868 E: 3085717.0386	FROM MH-02, 21" REINFORCED CONCRETE INV IN: 5570.02 @ 1.57% FROM CB-02, 15" REINFORCED CONCRETE INV IN: 5570.02 @ 0.50%	TO EX CB-01, 21" REINFORCED CONCRETE INV OUT: 5569.92 @ 1.29%
MH-02	4' DIAMETER MANHOLE WITH SOLID LID	5582.020	N: 1231453.3347 E: 3085553.6526	FROM EX MH-04, 18" REINFORCED CONCRETE INV IN: 5572.69 @ 1.04% FROM CB-01, 10" INV IN: 5572.69 @ 8.00%	TO MH-01, 21" REINFORCED CONCRETE INV OUT: 5572.59 @ 1.57%
MH-03	4' DIAMETER MANHOLE WTIH SOLID LID	5570.253	N: 1231115.0431 E: 3085810.8700	FROM CB-05, 8" INV IN: 5566.34 @ 4.18%	TO MH-05, 8" INV OUT: 5566.24 @ 4.18%
MH-04	4' DIAMETER MANHOLE WITH SOLID LID	5576.508	N: 1231362.5488 E: 3085691.8197	FROM CB-03, 15" REINFORCED CONCRETE INV IN: 5570.45 @ 0.50%	TO CB-02, 15" REINFORCED CONCRETE INV OUT: 5570.45 @ 0.50%
MH-05	5' DIAMETER MANHOLE WITH INLET LID	5566.061	N: 1231095.3894 E: 3085910.2803	FROM MH-03, 8" INV IN: 5562.01 @ 4.18% FROM RD-04, 8" INV IN: 5564.06 @ 5.16%	TO EX MH-01, 18" REINFORCED CONCRETE INV OUT: 5561.81 @ 3.95%

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DESIGNED BY: HPC
DRAWN BY: NAM
CHECKED BY: CARS
DATE: 5/13/2022

CENTENNIAL VALLEY BUSINESS PARK
QUANTUM PUD AMENDMENT 1
1450 INFINITE DRIVE, LOUISVILLE, COLORADO
PLANNED UNIT DEVELOPMENT AMENDMENT
STORM SEWER STRUCTURE TABLE

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ASPHALT PAVEMENT SECTION

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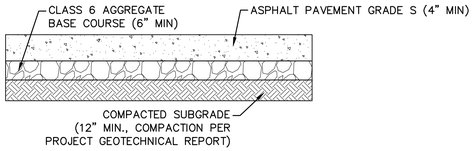
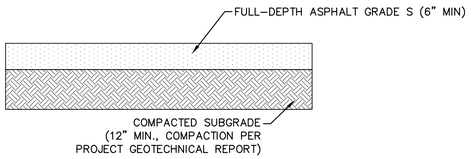


NOTE:
PAVEMENT SECTIONS ARE BASED ON RECOMMENDATIONS FROM GEOTECHNICAL INVESTIGATION, INFINIDE DRIVE BUILDING, 1450 INFINITE DRIVE, LOUISVILLE, BOULDER COUNTY COLORADO, PROJECT 212027 BY CTC-GEOTEK, INC. ON OCTOBER 8, 2021 AND PER APPROVED PAVEMENT DESIGN.



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GRAVEL PAVEMENT SECTION

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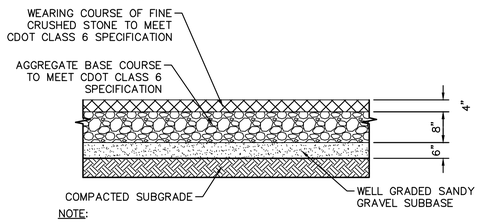

NOTE:

1. A GEOTECHNICAL REPORT HAS BEEN REQUESTED AND RECOMMENDED BY THE ENGINEER OF RECORD FOR PRECISE AND ACCURATE DESIGN. IN THE ABSENCE OF A REPORT, THE CIVIL ENGINEER HAS USED THE DESIGN METHODOLOGY IS FROM THE USACE DESIGN CRITERIA FOR AGGREGATE SURFACED ROADS. FOR THE PURPOSE OF DESIGN, AN ASSUMED MR OF 5,000 PSI (WITH FROST POTENTIAL) AND A TYPICAL FIRE TRUCK LOAD OF 75,000 LBS HAS BEEN USED. IF THE SUBGRADE ON SITE IF FOUND TO BE SAND OR GRAVEL IN LIEU OF CLAY, THE SAND LAYER CAN BE OMITTED. A GEOTEXTILE LAYER CAN BE USED BETWEEN THE AGGREGATE BASE AND SUBGRADE INSTEAD OF THE SAND LAYER, AND SHOULD BE INCLUDED AS AN ADDITIONAL ALTERNATE BY THE CONTRACTOR. THIS PAVEMENT SECTION IS ASSUMING LOW VOLUME TRAFFIC LOADING, A 4-INCH SURFACE LAYER OVER AT LEAST AN 8-INCH BASE COURSE LAYER.

SIDEWALK CONCRETE PAVEMENT SECTION

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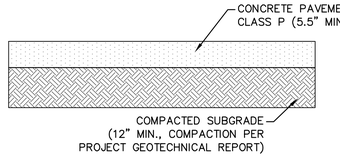

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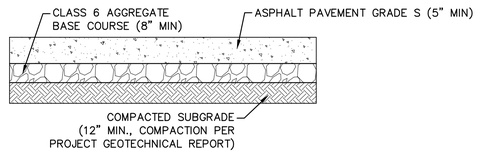
HEAVY DUTY CONCRETE PAVEMENT SECTION

N.T.S.



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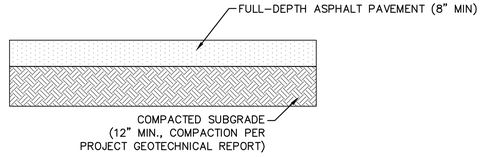

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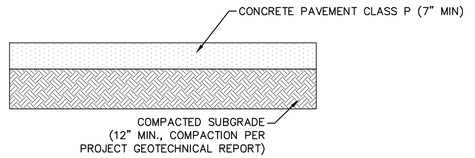

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DESIGNED BY: HPC
DRAWN BY: NAM
CHECKED BY: CARS
DATE: 5/13/2022

CENTENNIAL VALLEY BUSINESS PARK
QUANTUM PUD AMENDMENT 1
1450 INFINITE DRIVE, LOUISVILLE, COLORADO
PLANNED UNIT DEVELOPMENT AMENDMENT
PAVING DETAILS

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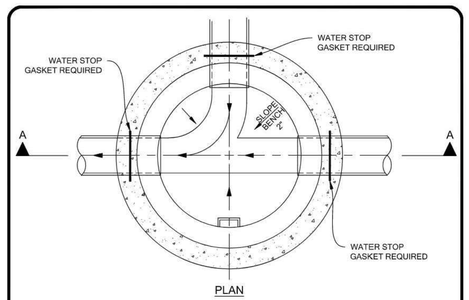

REVISIONS		City of Louisville	DEPARTMENT OF PUBLIC WORKS	DRAWN BY: ML JAN 94 APPROVED BY: CMD MAR 15
DATE	BY	COLORADO - SINCE 1882		
MAR 2015	CMD	MANHOLE BASE		SHEET 1 OF 74

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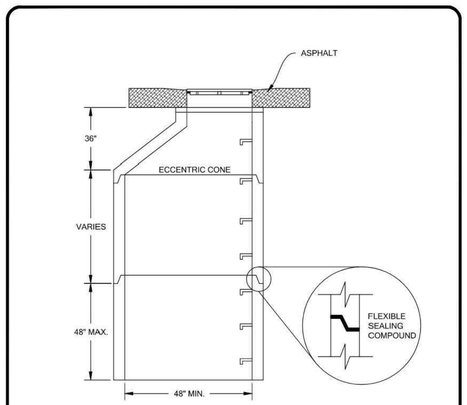

MANHOLE SECTION
W/ ECCENTRIC CONE TOP

NOTES:

1. STEPS SHALL BE LOCATED ABOVE THE BENCH.
2. MANHOLE STEP SPACING SHALL BE 12"- 18" OC.
3. HDPE / TAPERED GRADE RINGS SHALL BE USED FOR GRADE ADJUSTMENT.
4. STEPS SHALL BE VERTICALLY PLUMB ± 1° AND SHALL HAVE EQUAL SPACING.
5. FLEXIBLE SEALING COMPOUND SHALL BE RAMNECK OR APPROVED EQUAL.
6. MANHOLE STEPS SHALL BE NO MORE THAN 24" NOR LESS THAN 18" FROM THE TOP OF THE MANHOLE RING OR FROM THE BENCH OF THE MANHOLE.
7. STEPS SHALL CONFORM TO AASHTO M 199.
8. PRECAST MANHOLES SHALL COMPLY WITH ASTM C 478.

REVISIONS		City of Louisville	DEPARTMENT OF PUBLIC WORKS	DRAWN BY: ML JAN 94 APPROVED BY: CMD MAR 15
DATE	BY	COLORADO - SINCE 1882		
MAR 2015	CMD	MANHOLE SECTION		SHEET 2 OF 74

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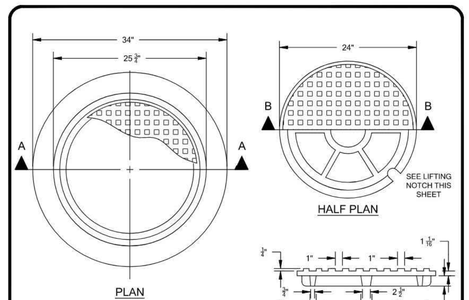

NOTES:

1. ASTM DESIGNATION A-48 CLASS 25.
2. ALL BEARING SURFACES TO BE MACHINED.
3. LETTERING ON COVER AS REQUIRED (WATER, SEWER, OR STORM).
4. TOTAL MINIMUM WT. APPROX. 405 LBS.
5. LIFTING NOTCH 1" x 1½" .
6. 24" RING & COVER FOR 48" DIAMETER MANHOLE BARRELS.
7. 30" RING & COVER FOR 60" & 72" DIAMETER MANHOLE BARRELS.

REVISIONS		City of Louisville	DEPARTMENT OF PUBLIC WORKS	DRAWN BY: ML JAN 94 APPROVED BY: CMD MAR 15
DATE	BY	COLORADO - SINCE 1882		
MAR 2015	CMD	24" MANHOLE RING & COVER		SHEET 3 OF 74

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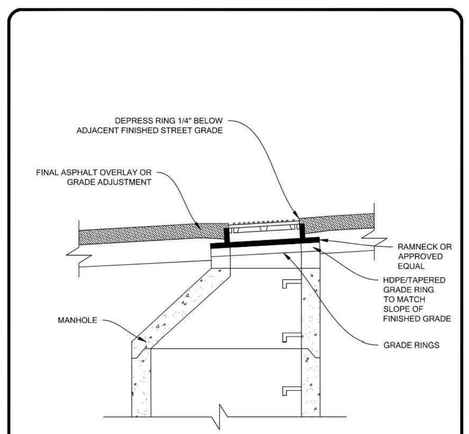

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DATE	BY	COLORADO - SINCE 1882		
MAR 2015	CMD	MANHOLE & COVER ADJUSTMENT		SHEET 4 OF 74

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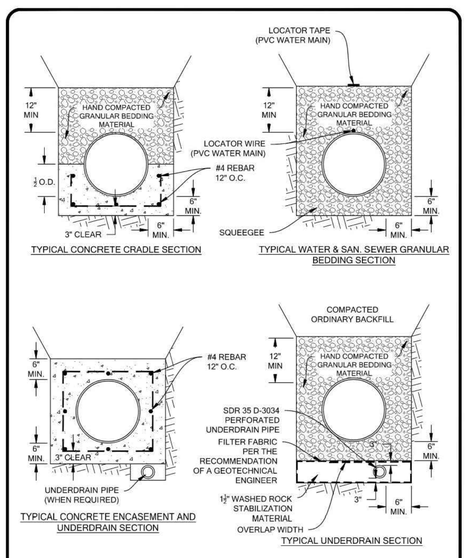

NOTE:
THERE SHALL BE A MINIMUM OF 30" OF BACKFILL OVER THE PIPE BEFORE ANYTHING OTHER THAN HAND COMPACTION EQUIPMENT IS USED IN THE TRENCH.

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MAR 2015	CMD	PIPE BEDDING CLASSES		SHEET 5 OF 74

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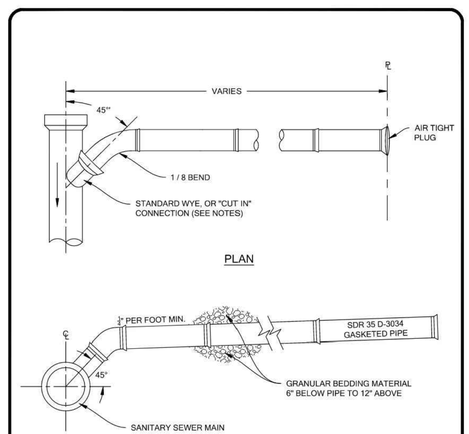

NOTES:

1. BELLS SHALL NOT TOUCH THE SIDES OR BOTTOM OF THE BELL HOLE.
2. THE BARREL SECTION SHALL BE SUPPORTED THROUGHOUT ITS LENGTH.
3. SERVICE TAPS SHALL BE IN LINE WYES ON NEW MAINS, AND MACHINE TAPPED AND WYE SADDLE ON EXISTING MAINS. HAND TAPS SHALL NOT BE ALLOWED.
4. SERVICE LINES SHALL BE LOCATED FIVE FEET DOWNHILL FROM THE CENTERLINE OF THE LOT.
5. THE CURB SHALL BE MARKED WITH "S" OR "X" WHERE THE SEWER SERVICE LINE CROSSES THE CURB.
6. THE MIN. SERVICE LINE SHALL BE 1/4" PER FOOT.
7. ALL JOINTS SHALL BE GASKETED WATER TIGHT.
8. ALL SERVICE LINES SHALL BE 4" UNLESS OTHERWISE APPROVED.
9. INSPECTION REQUIRED PRIOR TO BACKFILL.

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MAR 2015	CMD	SANITARY SEWER SERVICE		SHEET 9 OF 74

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DESIGNED BY: HPC
DRAWN BY: NAM
CHECKED BY: CARS
DATE: 5/13/2022

CENTENNIAL VALLEY BUSINESS PARK
QUANTUM PUD AMENDMENT 1
1450 INFINITE DRIVE, LOUISVILLE, COLORADO
PLANNED UNIT DEVELOPMENT AMENDMENT
CONSTRUCTION DETAILS

PRELIMINARY
FOR REVIEW ONLY
NOT FOR CONSTRUCTION
Kimley»Horn
Kimley-Horn and Associates, Inc.

PROJECT NO.
196045001

SHEET
9 OF 13

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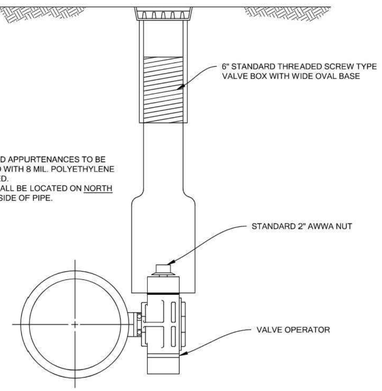

NOTES:

1. VALVE AND APPURTENANCES TO BE WRAPPED WITH 8 MIL. POLYETHYLENE AND TAPED.
2. VALVE SHALL BE LOCATED ON NORTH OR EAST SIDE OF PIPE.

REVISIONS		City of Louisville	DEPARTMENT OF PUBLIC WORKS	DRAWN BY: ML JAN 94
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MAR 2015	CMD	BUTTERFLY VALVE		SHEET 33 OF 74

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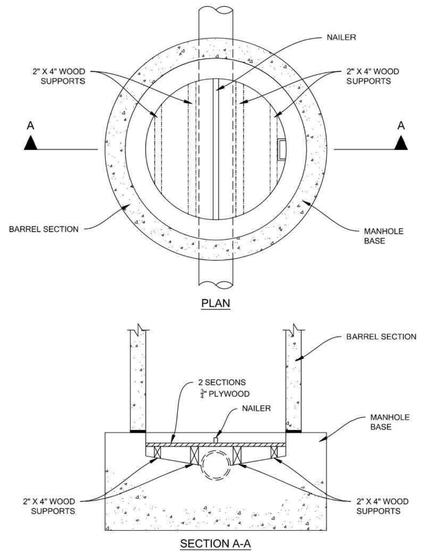

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MAR 2015	CMD	FALSE BOTTOM MANHOLE		SHEET 14 OF 74

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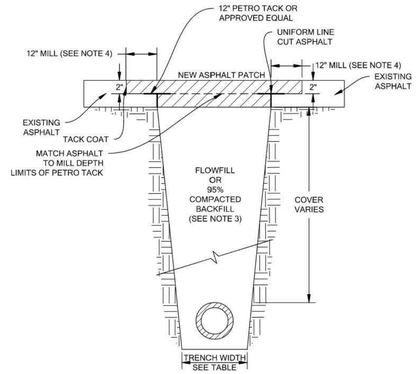

NOTES:

1. TRENCH TO BE SLOPED OR BRACED AND SHORED AS REQUIRED.
2. 6" MIN. ASPHALT PATCH OR COMPLETE FULL DEPTH ASPHALT PATCH OF EXISTING STREET SECTION. INSTALL ASPHALT IN LIFTS AND COMPACT TO 95% MIN.
3. COMPACTED BACKFILL ONLY AS DIRECTED BY ENGINEER.
4. 12" MILL ONLY REQUIRED IF PAVEMENT IS 5 YEARS OLD OR LESS OR AS DIRECTED BY THE CITY.

PIPE DIAMETER	6"	8"	12"
MINIMUM WIDTH	1' 10"	2' 0"	2' 4"
MAXIMUM WIDTH	2' 6"	2' 8"	3' 0"

REVISIONS		City of Louisville	DEPARTMENT OF PUBLIC WORKS	DRAWN BY: ML JAN 94
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MAR 2015	CMD	TYPICAL TRENCH T PATCH SECTION		SHEET 16 OF 74

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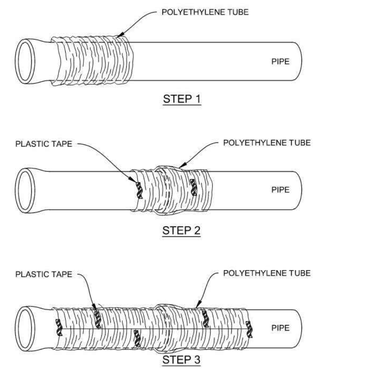

FIELD INSTALLATION - POLYETHYLENE WRAP

STEP 1 - PLACE TUBE OF POLYETHYLENE MATERIAL ON PIPE PRIOR TO LOWERING IT INTO TRENCH.

STEP 2 - PULL THE TUBE OVER THE LENGTH OF THE PIPE. TAPE TUBE TO PIPE AT JOINT. FOLD MATERIAL AROUND THE ADJACENT SPIGOT END AND WRAP WITH TAPE TO HOLD THE PLASTIC TUBE IN PLACE.

STEP 3 - OVERLAP FIRST TUBE WITH ADJACENT TUBE AND SECURE WITH PLASTIC ADHESIVE TAPE. THE POLYETHYLENE TUBE MATERIAL COVERING THE PIPE SHALL BE LOOSE. EXCESS MATERIAL SHALL BE NEATLY DRAWN UP AROUND THE PIPE BARREL, FOLDED ON TOP OF THE PIPE AND TAPED IN PLACE.

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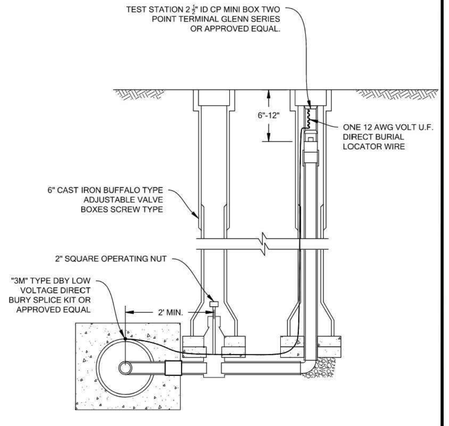

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DATE	BY	COLORADO - SINCE 1882		APPROVED BY: CMD MAR 15
MAR 2015	CMD	PVC WATER MAIN LOCATOR WIRE & TEST STATION AT BLOWOFF		SHEET 28 OF 74

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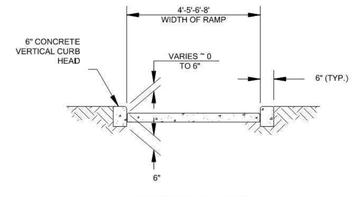

TYPICAL CURB RAMP
SECTION C-C

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MAR 2015	CMD	HANDICAP CURB RAMP 3A		SHEET 71 OF 74

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CHECKED BY: CARS
DATE: 5/13/2022

CENTENNIAL VALLEY BUSINESS PARK
QUANTUM PUD AMENDMENT 1
1450 INFINITE DRIVE, LOUISVILLE, COLORADO
PLANNED UNIT DEVELOPMENT AMENDMENT
CONSTRUCTION DETAILS

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PROJECT NO. 196045001

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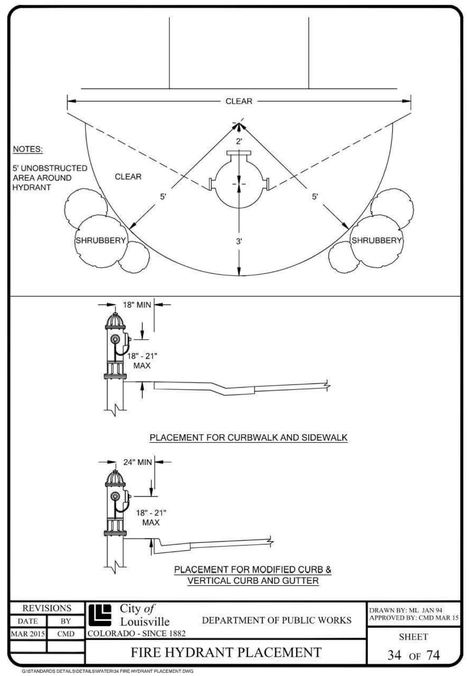

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DATE	BY	COLORADO - SINCE 1882		APPROVED BY: CMD MAR 15
MAR 2015	CMD	FIRE HYDRANT PLACEMENT		SHEET 34 OF 74

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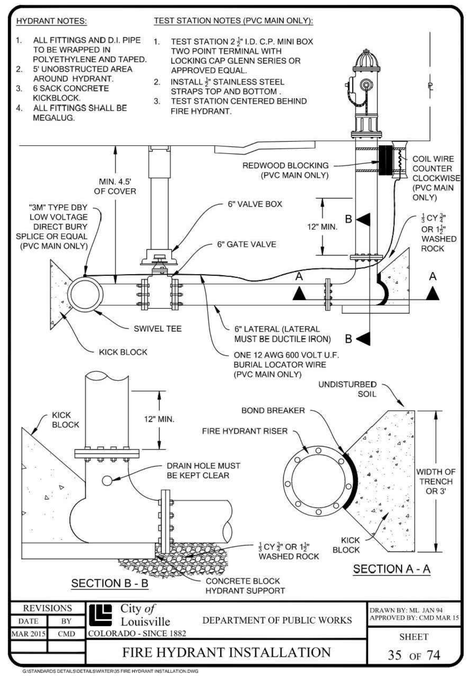

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MAR 2015	CMD	FIRE HYDRANT INSTALLATION		SHEET 35 OF 74

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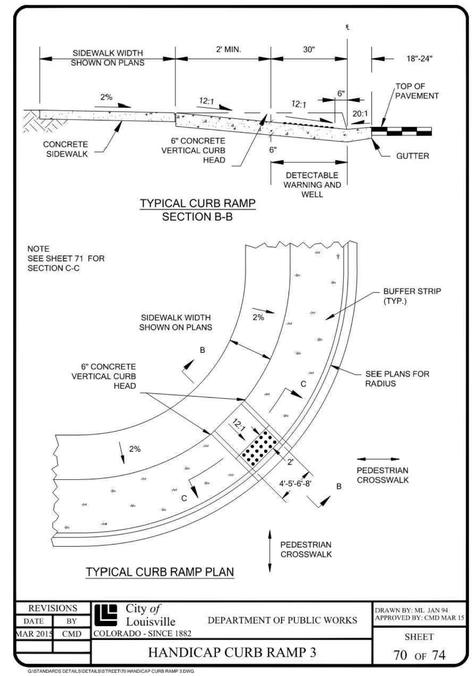

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MAR 2015	CMD	HANDICAP CURB RAMP 3		SHEET 70 OF 74

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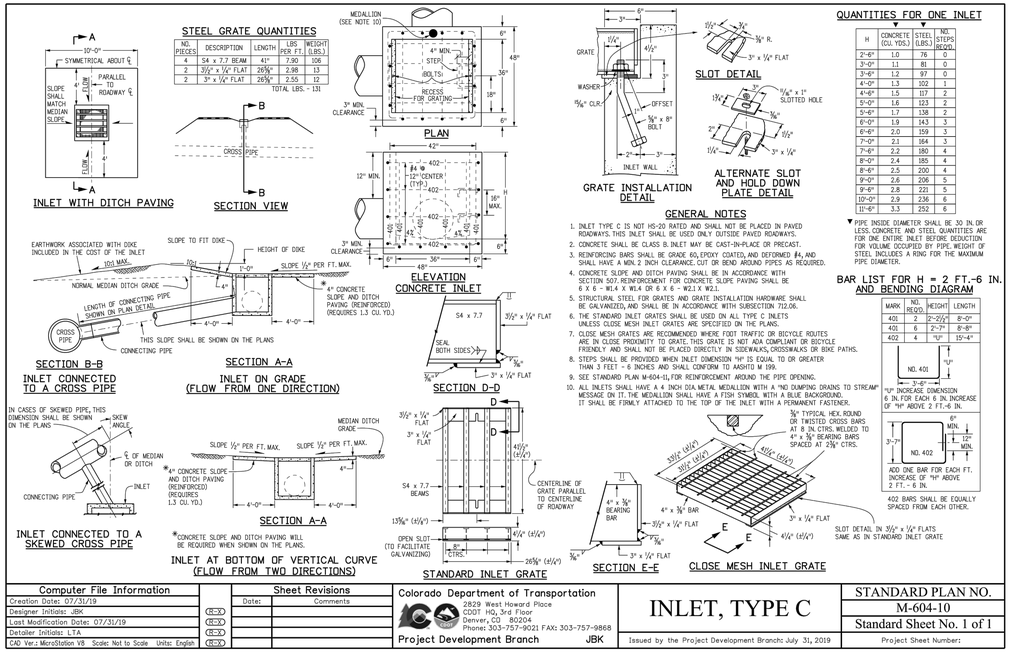
SHEET 11 OF 13

STEEL GRATE QUANTITIES

NO. PIECES	DESCRIPTION	LENGTH	LBS PER FT.	WEIGHT (LBS.)
4	S4 x 7.7 BEAM	41"	7.90	106
2	3½" x ¼" FLAT	26⅝"	2.98	13
2	3" x ¼" FLAT	26⅝"	2.55	12
			TOTAL LBS. -	131



QUANTITIES FOR ONE INLET

H	CONCRETE (CU. YDS.)	STEEL (LBS.)	NO. STEPS REQD.
2'-6"	1.0	76	0
3'-0"	1.1	81	0
3'-6"	1.2	97	0
4'-0"	1.3	102	1
4'-6"	1.5	117	2
5'-0"	1.6	123	2
5'-6"	1.7	138	2
6'-0"	1.9	143	3
6'-6"	2.0	159	3
7'-0"	2.1	164	3
7'-6"	2.2	180	4
8'-0"	2.4	185	4
8'-6"	2.5	200	4
9'-0"	2.6	206	5
9'-6"	2.8	221	5
10'-0"	2.9	236	6
11'-6"	3.3	252	6

▼ PIPE INSIDE DIAMETER SHALL BE 30 IN. OR LESS. CONCRETE AND STEEL QUANTITIES ARE FOR ONE ENTIRE INLET BEFORE DEDUCTION FOR VOLUME OCCUPIED BY PIPE. WEIGHT OF STEEL INCLUDES A RING FOR THE MAXIMUM PIPE DIAMETER.

GENERAL NOTES

1. INLET TYPE C IS NOT HS-20 RATED AND SHALL NOT BE PLACED IN PAVED ROADWAYS. THIS INLET SHALL BE USED ONLY OUTSIDE PAVED ROADWAYS.
2. CONCRETE SHALL BE CLASS B. INLET MAY BE CAST-IN-PLACE OR PRECAST.
3. REINFORCING BARS SHALL BE GRADE 60, EPOXY COATED, AND DEFORMED #4, AND SHALL HAVE A MIN. 2 INCH CLEARANCE. CUT OR BEND AROUND PIPES AS REQUIRED.
4. CONCRETE SLOPE AND DITCH PAVING SHALL BE IN ACCORDANCE WITH SECTION 507. REINFORCEMENT FOR CONCRETE SLOPE PAVING SHALL BE 6 X 6 - W1.4 X W1.4 OR 6 X 6 - W2.1 X W2.1.
5. STRUCTURAL STEEL FOR GRATES AND GRATE INSTALLATION HARDWARE SHALL BE GALVANIZED, AND SHALL BE IN ACCORDANCE WITH SUBSECTION 712.06.
6. THE STANDARD INLET GRATES SHALL BE USED ON ALL TYPE C INLETS UNLESS CLOSE MESH INLET GRATES ARE SPECIFIED ON THE PLANS.
7. CLOSE MESH GRATES ARE RECOMMENDED WHERE FOOT TRAFFIC OR BICYCLE ROUTES ARE IN CLOSE PROXIMITY TO GRATE. THIS GRATE IS NOT ADA COMPLIANT OR BICYCLE FRIENDLY AND SHALL NOT BE PLACED DIRECTLY IN SIDEWALKS, CROSSWALKS OR BIKE PATHS.
8. STEPS SHALL BE PROVIDED WHEN INLET DIMENSION "H" IS EQUAL TO OR GREATER THAN 3 FEET - 6 INCHES AND SHALL CONFORM TO AASHTO M 199.
9. SEE STANDARD PLAN M-604-11, FOR REINFORCEMENT AROUND THE PIPE OPENING.
10. ALL INLETS SHALL HAVE A 4 INCH DIA METAL MEDALLION WITH A "NO DUMPING DRAINS TO STREAM" MESSAGE ON IT. THE MEDALLION SHALL HAVE A FISH SYMBOL WITH A BLUE BACKGROUND. IT SHALL BE FIRMLY ATTACHED TO THE TOP OF THE INLET WITH A PERMANENT FASTENER.

BAR LIST FOR H = 2 FT.-6 IN. AND BENDING DIAGRAM

MARK	NO. REQD.	HEIGHT	LENGTH
401	2	2'-2½"	8'-0"
401	6	2'-7"	8'-8"
402	4	"U"	15'-4"

402 BARS SHALL BE EQUALLY SPACED FROM EACH OTHER.

Computer File Information	
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Designer Initials: JBK	
Last Modification Date: 07/31/19	
Detailer Initials: LTA	
CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English	

Sheet Revisions	
Date:	Comments

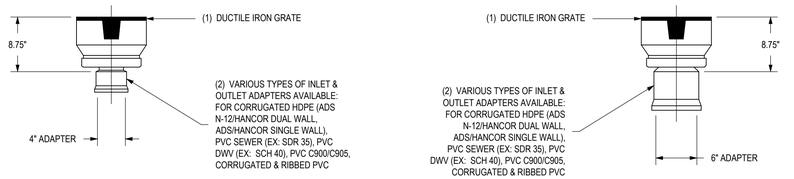
Colorado Department of Transportation
2829 West Howard Place
CDOT HQ, 3rd Floor
Denver, CO 80204
Phone: 303-757-9021 FAX: 303-757-9868
Project Development Branch JBK

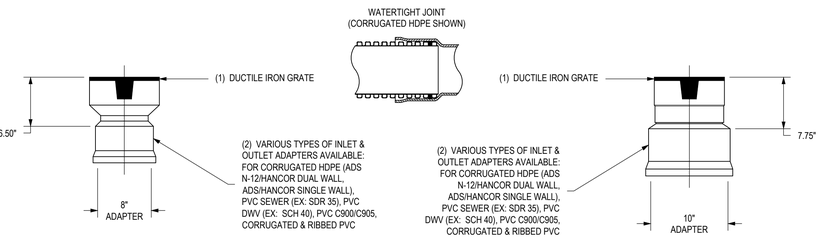
INLET, TYPE C

Issued by the Project Development Branch: July 31, 2019

STANDARD PLAN NO. M-604-10
Standard Sheet No. 1 of 1
Project Sheet Number:

NYLOPLAST 10" INLINE DRAIN: 2710AG _ _ X





GRATE OPTIONS	LOAD RATING	PART #	DRAWING #
STANDARD	LIGHT DUTY	1099CGS	7001-110-198
SOLID COVER	LIGHT DUTY	1099CGC	7001-110-199
BRONZE	N/A	1099CGB	7001-110-200
DOME	N/A	1099CGD	7001-110-201

1 - GRATES/SOLID COVER SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05, WITH THE EXCEPTION OF THE BRONZE GRATE.
2 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS & HANCOR DUAL WALL) & SDR 35 PVC.
3 - DIMENSIONS ARE FOR REFERENCE ONLY.
4 - ACTUAL DIMENSIONS MAY VARY.

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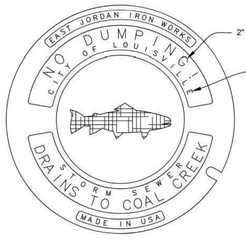
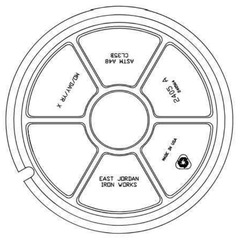
DATE 07-19-13			
DWG SIZE A	SCALE NTS SHEET 1 OF 1	DWG NO.	7003-110-001 REV G



COVER TOP



COVER BACK

REVISIONS		City of Louisville	DEPARTMENT OF PUBLIC WORKS	DRAWN BY: ML JAN 94 APPROVED BY: CMD MAR 15
DATE	BY	COLORADO - SINCE 1882		
MAR 2015	CMD	STORM MANHOLE COVER		SHEET 51 OF 74

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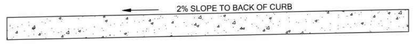
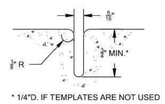


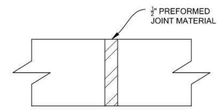
ATTACHED OR DETACHED WALK

- 4' OR 5' WIDE WALKS SHALL BE 4" THICK
- 8' WIDE WALKS SHALL BE 6" THICK
- ALL WALKS AT RESIDENTIAL DRIVEWAYS SHALL BE 6" WITH FIBERMESH

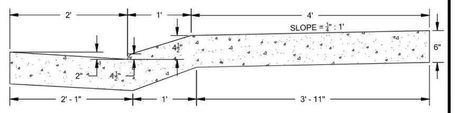


* 1/4"D. IF TEMPLATES ARE NOT USED

CONTRACTION OR WEAKENED PLANE JOINT



EXPANSION JOINT



CURBWALK

REVISIONS		City of Louisville	DEPARTMENT OF PUBLIC WORKS	DRAWN BY: ML JAN 94 APPROVED BY: CMD MAR 15
DATE	BY	COLORADO - SINCE 1882		
MAR 2015	CMD	CURBWALK & WALK		SHEET 57 OF 74

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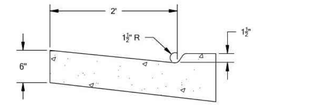
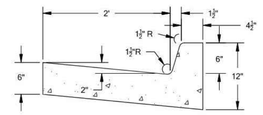
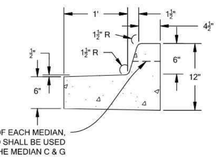


TYPICAL CURB & GUTTER AT DRIVEWAY



VERTICAL CURB & GUTTER



MEDIAN CURB & GUTTER

REVISIONS		City of Louisville	DEPARTMENT OF PUBLIC WORKS	DRAWN BY: ML JAN 94 APPROVED BY: CMD MAR 15
DATE	BY	COLORADO - SINCE 1882		
MAR 2015	CMD	CURB & GUTTER		SHEET 58 OF 74

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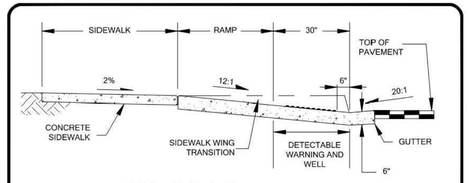
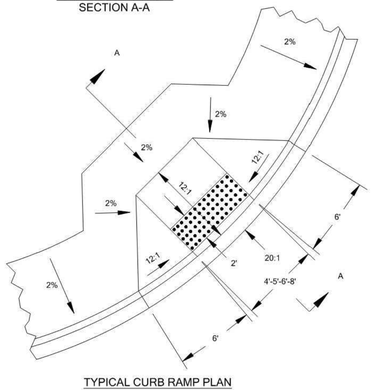


TYPICAL CURB RAMP
SECTION A-A



TYPICAL CURB RAMP PLAN

REVISIONS		City of Louisville	DEPARTMENT OF PUBLIC WORKS	DRAWN BY: ML JAN 94 APPROVED BY: CMD MAR 15
DATE	BY	COLORADO - SINCE 1882		
MAR 2015	CMD	HANDICAP CURB RAMP 1		SHEET 67 OF 74

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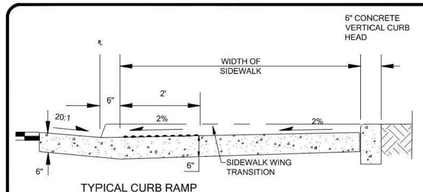
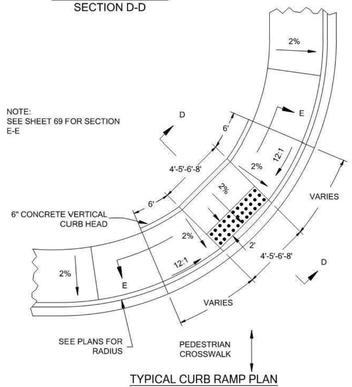


TYPICAL CURB RAMP
SECTION D-D



TYPICAL CURB RAMP PLAN

REVISIONS		City of Louisville	DEPARTMENT OF PUBLIC WORKS	DRAWN BY: ML JAN 94 APPROVED BY: CMD MAR 15
DATE	BY	COLORADO - SINCE 1882		
MAR 2015	CMD	HANDICAP CURB RAMP 2		SHEET 68 OF 74

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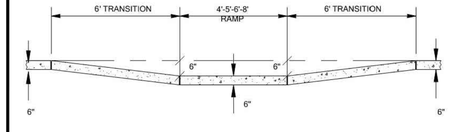

TYPICAL CURB RAMP
SECTION E-E

REVISIONS		City of Louisville	DEPARTMENT OF PUBLIC WORKS	DRAWN BY: ML JAN 94 APPROVED BY: CMD MAR 15
DATE	BY	COLORADO - SINCE 1882		
MAR 2015	CMD	HANDICAP CURB RAMP 2A		SHEET 69 OF 74

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NO.	REVISION	BY	DATE	APPR.

Kimley»Horn
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3801 AUTOMATION WAY, SUITE 210
FORT COLLINS, COLORADO 80525 (303) 228-2300

DESIGNED BY: HPC
DRAWN BY: NAM
CHECKED BY: CARS
DATE: 5/13/2022

CENTENNIAL VALLEY BUSINESS PARK
QUANTUM PUD AMENDMENT 1
1450 INFINITE DRIVE, LOUISVILLE, COLORADO
PLANNED UNIT DEVELOPMENT AMENDMENT
CONSTRUCTION DETAILS

PRELIMINARY
FOR REVIEW ONLY
NOT FOR CONSTRUCTION
Kimley»Horn
Kimley-Horn and Associates, Inc.

PROJECT NO.
196045001

SHEET
12 OF 13

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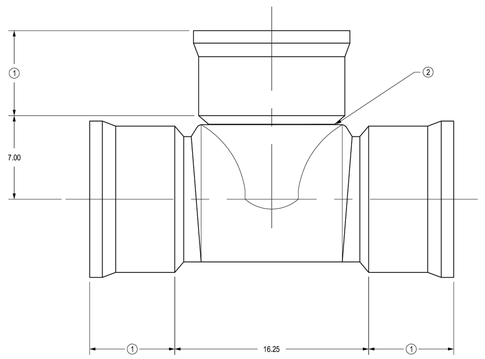

1. SEE DRAWING NO. 7001-110-275 FOR ADS N-12 & HANCOR DUAL WALL BELL INFORMATION
2. SEE DRAWING NO. 7003-110-031 FOR WATER TIGHT SWAGE JOINT DETAIL
3 - DIMENSIONS ARE FOR REFERENCE ONLY ACTUAL DIMENSIONS MAY VARY
4 - DIMENSIONS ARE IN INCHES

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DRAWN BY	EBC	MATERIAL	PVC
DATE	7-11-06		
APPD BY	CJA	PROJECT NO./NAME	
DATE	7-11-06		
DWG SIZE	A	SCALE 1:6	SHEET 1 OF 1

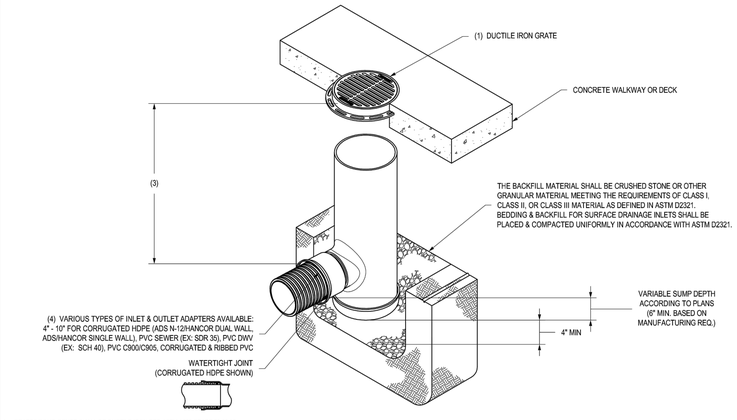
ADS Nyloplast

3130 VERONA AVE
BUFORD, GA 30518
PHN (770) 932-2443
FAX (770) 932-2490
www.nyloplast-us.com

TITLE: 10 X 10 ADS N-12 / HANCOR DUAL WALL TEE

DWG NO. 1884AG REV A

NYLOPLAST 10" DRAIN BASIN: 2810AG _ _ X



1 - GRATES/SOLID COVER SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05, WITH THE EXCEPTION OF THE BRONZE GRATE.
2 - CUSTOM DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 7001-110-005.
3 - STANDARD DRAIN BASIN HAS FIXED ADAPTER LOCATIONS OF 0° & 180°. CUSTOM DRAIN BASIN ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012.
4 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL) & PVC SEWER (4"-10").

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DRAWN BY	NMH	MATERIAL	
DATE	6-25-18		
APPD BY	NMH	PROJECT NO./NAME	
DATE	6-25-18		
DWG SIZE	A	SCALE 1:12	SHEET 1 OF 1

ADS Nyloplast

3130 VERONA AVE
BUFORD, GA 30518
PHN (770) 932-2443
FAX (770) 932-2490
www.nyloplast-us.com

TITLE: 10 IN DRAIN BASIN QUICK SPEC INSTALLATION DETAIL

DWG NO. 7001-110-273 REV F

NO.	REVISION	BY	DATE	APPR.

Kimley»Horn
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3801 AUTOMATION WAY, SUITE 210
FORT COLLINS, COLORADO 80525 (303) 228-2300

DESIGNED BY:	HPC
DRAWN BY:	NAM
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CENTENNIAL VALLEY BUSINESS PARK
QUANTUM PUD AMENDMENT 1
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CONSTRUCTION DETAILS

PRELIMINARY
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Kimley»Horn
Kimley-Horn and Associates, Inc.

PROJECT NO.
196045001

SHEET
13 OF 13

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