



Planning Division
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July 1, 2021

Gregg Johnson
HM Metropolitan District No. 1
8390 E Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Re: Initial Submission Review: 68th Avenue and Harvest Road at Denali Logistics Park – ISP
Application Number: DA-1478-06
Case Number: 2021-6028-00

Dear Mr. Johnson:

Thank you for your initial submission, which we started to process on Monday, June 7, 2021. We reviewed it and attached our comments along with this cover letter. This letter contains comments from all city departments and outside agencies.

Since many important issues remain, you will need to make another submission. Please revise your previous work and send us a new submission on or before July 23, 2021.

Note that all our comments are numbered. When you resubmit, include a cover letter specifically responding to each item. The Planning Department reserves the right to reject any resubmissions that fail to address these items. If you have made any other changes to your documents other than those requested, be sure to also specifically list them in your letter.

As always, if you have any comments or concerns, please give me a call. I may be reached at 303-739-7857.

Sincerely,

Sarah Wile, Senior Planner
City of Aurora
Planning and Development Services Department

cc: Allison Graham, Dig Studio, 1521 15th Street, Denver, CO 80202
Cesarina Dancy, ODA
Filed: K:\SDA\1478-06rev1.rtf



First Submission Review

1. Planning (Sarah Wile / 303-739-7857 / swile@auroragov.org / Comments in teal)

1A. Make revisions to the title of the application. It should be “68th Avenue and Harvest Road at Denali Logistics Park – Infrastructure Site Plan.” Please update this on all sheets and update the format of the title per redline comments.

1B. Remove “of 12” from the Sheet Index, sheet numbers, and details in case additional sheets are added as part of future amendments.

1C. Include the Case Number for all adjacent applications on applicable sheets per redline comments.

1D. Some of the Infrastructure Notes appear to include the incorrect street name. Please review the redline comments and update street names if necessary.

1E. Please identify the easement that is impacting the curbside landscaping on the north side of 68th Avenue. In order to be consistent with the 68th Avenue and Denali Street ISP application to the west, an administrative adjustment may need to be requested to account for this. Please coordinate with your Case Manager on this issue prior to the next submittal.

1F. As a reminder, the city has developed CAD Data Submittal Standards for internal and external use to streamline the process of importing AutoCAD information into the city’s Enterprise GIS. Please note that a digital submission meeting the [CAD Data Submittal Standards](#) is required before your final Infrastructure Site Plan mylars can be routed for signatures or recorded. Please review the CAD Data Submittal Standards and email the .DWG file to your Case Manager before submitting your final mylars.

2. Landscaping (Chad Giron / 303-739-7185 / cgiron@auroragov.org / Comments in bright teal) *Sheet 6*

2A. Add a note to the Landscape Plan regarding the impact to the street trees from the water line.

2B. Add a note explaining what the asterisks are for in the Midgrass Prairie Mix.

2C. Add the detention pond requirement of 1 tree and 10 shrubs per 4,000 square feet.

Sheet 7

2D. Change the street name from 60th Avenue to 68th Avenue.

2E. Label the specific utility line that impacts the placement of street trees on all applicable sheets.

Sheet 12

2F. Add the missing Standard Landscape Notes as specified in the Landscape Reference Manual.

3. Civil Engineering (Kristin Tanabe / 303-739-7306 / ktanabe@auroragov.org / Comments in green)

3A. The Site Plan will not be approved by Public Works until the Preliminary Drainage Report is approved.

3B. Label slopes.

3C. Show the maintenance access on the Landscape Plan.



4. Traffic Engineering (Brianna Medema / 303-739-7336 / bmedema@auroragov.org / Comments in orange)

- 4A. Update the Traffic Impact Study per redline comments.
- 4B. Some of the proposed plantings are appropriate within sight triangles. See redline comments and replace.
- 4C. Call out the right-turn lane length and taper rate along 68th Avenue.
- 4D. See comments regarding what appears to be an access on Sheet 5.
- 4E. Fix labels where noted.
- 4F. Address the conflict between the accessible ramp and the plantings on Sheet 9.

5. Aurora Water (Casey Ballard / 303-739-7382 / cballard@auroragov.org / Comments in red)

- 5A. Based on discussion with ECCV, items such as light poles, hydrants, and inlets need to be a minimum of 10' from their water main.
- 5B. Hydrants cannot be placed over a utility. This includes ECCV water main and Aurora Water sanitary and water mains.
- 5C. Access paths longer than 150' require a turnaround.
- 5D. Concentrated flows require rip rap or another form of erosion control as they enter a pond.
- 5E. A drainage easement is needed for the detention pond.
- 5F. Public storm mains require easements when outside public ROW. Storm mains should not be crossing the creek.
- 5G. Why is the main noted on Sheet 4 not looped?
- 5H. If sanitary is being proposed, then the full extent of the improvements must be shown. If not, please remove the proposed sanitary main.
- 5I. An inlet cannot be over the sanitary main or water main. Light poles and other utility poles should be a minimum of 8' as measured between the outside of the inlet to the outside of the pole base.
- 5J. Access is needed to all manholes.
- 5K. Have the plans been coordinated with ECCV? There are multiple items that require input from all external utility owners.
- 5L. The large diameter water main should not be redirected unless it is impossible to extend it straight north.

6. Real Property (Maurice Brooks / 303-739-7294 / mbrooks@auroragov.org / Comments in magenta)

- 6A. Dedicate any easements or ROW by separate documents. Contact Andy Niquette to start the separate document process. This must be complete prior to mylar recordation.



7. Fire / Life Safety (Jeff Goorman / 303-739-7464 / jgoorman@auroragov.org / Comments in blue)

7A. Revise the note on the Cover Sheet per redline comments.

7B. If known at this time, please show any roads or entrances to adjacent sites that connect to 68th Avenue or Harvest Road. This will assist with strategic hydrant placement.

7C. Relocate hydrants per redline comments.

8. Xcel Energy (Donna George / 303-571-3306 / donna.l.george@xcelenergy.com)

8A. See the attached comment letter.

9. DEN Planning + Real Estate (Jeannette Hilaire / 303-342-2713 / jeannette.hilaire@flydenver.com)

9A. See the attached comment letter.



Right of Way & Permits

1123 West 3rd Avenue
Denver, Colorado 80223
Telephone: **303.571.3306**
Facsimile: 303. 571. 3284
donna.l.george@xcelenergy.com

June 25, 2021

City of Aurora Planning and Development Services
15151 E. Alameda Parkway, 2nd Floor
Aurora, CO 80012

Attn: Deborah Bickmire

Re: 68th Avenue at Denali Logistics Park, Case # DA-1478-06

Public Service Company of Colorado's (PSCo) Right of Way and Permits Referral Desk has determined that an **engineering review** is necessary for the above captioned project. Public Service Company has an existing high-pressure natural gas transmission pipeline and associated land rights along the East 68th Avenue right-of-way. Any activity including grading, proposed landscaping, erosion control or similar activities involving our existing right-of-way will require PSCo approval. PSCo is requesting that, *out of an abundance of caution* and prior to any final approval of the site plan, it is the responsibility of the property owner/developer/contractor to contact PSCo's Encroachment Team for development plan review and execution of a License Agreement (upload all files in PDF format) at: https://www.xcelenergy.com/working_with_us/builders/encroachment_requests (click *Colorado* if necessary). An engineer will then be in contact to request specific plan sheets. Please see the attached Exhibit B for more information.

Donna George
Right of Way and Permits
Public Service Company of Colorado / Xcel Energy
Office: 303-571-3306 – Email: donna.l.george@xcelenergy.com

Exhibit B

Minimum Requirements for Grading and Excavation near Public Service Company of Colorado Transmission Pipeline(s)

1) General

- a. Colorado State Law Requires notification before excavation around utilities occurs. Requestor or Requestor's Contractor must call the Utility Notification Center of Colorado (UNCC) 1-800-922-1987 (811 when calling within Colorado) 48 hours prior to excavation, including the grading of the right of way, begins. Public Service Company of Colorado (PSCo) representatives provide these construction locates at its' cost as a participant in the one call system.
- b. All costs for labor, equipment and materials required to repair any damage to the pipeline(s) caused by Requestor or its' Contractors will be the responsibility of the Requestor and/or its Contractors for reimbursement to PSCo.
- c. Requestor's Contractor shall provide access to PSCo facilities on the project site for inspection by PSCo Personnel. Open excavations that need to be entered by PSCo Personnel shall conform to all federal, state and local jurisdictional codes and regulations governing safe entry and exit from open excavations.
- d. A fully executed agreement, applicable to the type of right being requested, between the Requestor and PSCo must be completed prior to construction activity within the PSCo ROW.
- e. Requests for installation of improvements by Requestor within the PSCo ROW must be reviewed and approved by PSCo High Pressure (HP) Gas Engineering and Operations. Installation of, and all costs associated with any improvements, are the responsibility of the Requestor. All costs associated with repairs or relocation of these improvements to accommodate PSCo Operations and Maintenance work on the existing pipeline(s) or installation of a new pipeline will be the responsibility of the Owner of record of the property at the time the work is performed.
- f. In the mutual interest of project coordination and scheduling of PSCo resources for your project, PSCo requests invitation to the Pre-Construction Meeting to obtain actual schedules and construction plans, make introductions and address any site specific conditions or project changes that have occurred between Final Design Review and Construction.
- g. Any exceptions to the Minimum Requirements stated in this document must be requested in writing and reviewed by PSCo HP Gas Engineering and Operations before approval for construction activity on the PSCo pipeline(s) permitted ROW is given.
- h. Any change in Requestor's construction plan and or scope of work that was agreed to between the Requestor and PSCo prior to, or during, construction must be presented to PSCo HP Gas Engineering and Operations for additional review and modification of requirements.
- i. Additional requirements may apply to address issues not foreseen during review of Requestor's proposal.

2) Engineering

- a. Specifications of weight and type of any heavy equipment or trucks planned to be run over or along the pipeline(s) are required to be submitted to PSCo HP Gas Engineering for analysis of excessive live load stresses induced on the pipeline(s) prior to approval for crossing is given.
 - i. Should calculated allowable stresses induced by Requestor equipment traveling over the PSCo pipeline(s) be exceeded, Requestor will be required to install additional temporary fill over the pipeline(s).
 - ii. If calculated allowable combined stress on the pipeline(s) can not be reduced below limits by adding additional protective fill over the pipeline(s) or the depth of additional fill is deemed impractical, a temporary bridging structure installed over the pipeline(s) will be required to mitigate the excess stress on the pipeline(s).
 - 1. This bridging structure must be constructed of timbers, plates or other material that does not allow the driving surface to come in contact with the ground surface. The supports for the driving surface of the bridging structure may be of dirt or other material with the inside edges of the supports placed a minimum of 5 feet from the center line of the PSCo pipeline(s).
- b. Requestor's Plans must contain surveyed horizontal location of the PSCo pipeline(s) throughout the project area based on current field locates. Surveyed vertical location of the PSCo pipeline(s) based on pothole information must be presented on the Proposed Construction Drawings Profile Sheets at all Requestor facility crossing locations of the pipeline(s) prior to final comment and approval of the plans.
- c. Locates and or potholing for the purpose of Requestor's engineering, design and construction drawings to establish the horizontal and vertical locations of PSCo facilities and all associated costs will be the responsibility of Requestor. A PSCo representative will be required to be on site during any pothole operations.
 - i. Potholing with excavation equipment during frost conditions will not be allowed unless contractor thaws ground prior to excavation. Potholing with vac-truck will be allowed under any conditions
- d. **Any excavator acting in a reckless manner while working in the area of Xcel Energy pipelines shall be asked to stop their work in that area. Work will not be allowed to continue until Xcel Energy personnel deem the situation has returned to a safe situation.**

e. Blasting Near PSCo Facilities

i. Notification

1. In accordance with Article 7 of Title 9 of CRS “Explosive Act”, Section 6.1.7, Utilities must be notified at least 24 hours prior to commencement of blasting activity. If Blasting is anticipated for this project an “Explosive Use Application and Notification” and the associated Agreement Document must be processed before blasting activities may commence near the PSCo pipeline(s). It is recommended that this notification be made at least one month in advance of actual blasting activities to allow for processing of these documents and any studies that may need to be performed to access the applicants blasting plan.

ii. Limits

1. Buried Pipe - Total Combined (Effective) Stresses on the pipe must not exceed **50%** of the specified minimum yield strength of the pipe.
 2. Above Ground Pipe –Blasting operations must not generate Peak Particle Velocity (PPV) greater than 1 in/sec.
- f. Vibrations from dynamic compaction equipment or other sources must be maintained at a peak particle velocity of not greater than 1 in /sec as measured in any one of the three components of a seismographic reading.

3) Inspection

- a. PSCo will require that one of its Field Operators be on site during the potholing, excavation, site grading, backfill operations, compaction, and installation of your facilities when working within the pipeline(s) easement and/or a minimum of fifteen (15) Ft from the outer limits of the locate marks for the PSCo pipeline(s). This standby expense is covered by PSCo during a normal 8 hour day Monday - Friday. Any time required in excess of 8 hours per day or weekend and holidays will be billed to the Third Party of the facilities under construction at the applicable PSCo Labor Overtime Rates and Equipment/Vehicle Rates.
- b. Requests for standby will be filled on a first-come, first-served basis, consistent with the number of personnel available for standby and Xcel Energy workload at that time. It is not our intent to unnecessarily impede the work schedule of the installation contractor, and we will strive to be as available as possible.
- c. Appointments for standby excavations shall be scheduled to minimize the amount of time Xcel Energy personnel are waiting during contractor setup. Contractors will be charged at the applicable straight time or overtime PSCo labor rate and Equipment/Vehicle per hour for time between appointment time and actual start time (i.e. a call for an 8:00 A.M. standby and actual construction start time of 10:00 A.M. will result in 2 hours of the applicable straight time or overtime PSCo labor and Equipment/vehicle charges)
- d. Frequency and duration of Field Operator Standby will be determined during the initial site visit with the Requestor’s Construction Contractor based on construction schedule and phasing of construction activities as they relate to work near the PSCo pipeline(s).

- e. Potholing frequency during construction will be at the discretion of the PSCo Inspector on site on an as needed basis based on field conditions and proximity of the excavation to the pipe.
- f. Potholing with excavation equipment during frost conditions will not be allowed unless contractor thaws ground prior to excavation. Potholing with vac-truck will be allowed under any conditions.

4) Construction

a. Grading, Excavation, Installation, Backfill

- i. A “Method of Construction Plan” shall be provided to PSCo HP Gas Engineering and Operations for review and approval prior to the beginning of construction.
- ii. For Parallel Encroachments, the recommended method of construction is to place the trench spoils between the Requestor line and the PSCo line and set the working side on the opposite side of the trench from the spoil pile.
 - 1. Alternate Method of Construction
 - a. Install a layer of straw or some other method of identifying the top of the existing ground elevation then place trench spoils on top of the line. During backfill operations, removal of the spoil shall stop at the level of the warning material.
 - b. Requests to work above existing PSCo pipeline(s), either on top of existing ground elevation or top of spoil pile, will be reviewed on a case by case basis. Requestor must provide specs for all equipment that will be traveling on top of the line for calculation of combined stresses for determination if allowable combined stress levels are exceeded prior to approval of this method
- iii. The maximum unsupported length of PSCo's 2” and larger diameter High Pressure Natural Gas pipeline(s) is **15** feet.
 - 1. Specific calculations can be made for pipe diameter’s greater than 2” in outside diameter to determine greater free span lengths.
 - 2. Should Requestor excavation require a greater length of the pipe be exposed than allowable stress limits dictate, plans for providing support will be required to be submitted to PSCo HP Gas Engineering for review and approval. This support system can be provided by the third party’s contractor and installed under the supervision of the on-site PSCo Energy Employee. A list of qualified pipeline contractors to perform this work, if needed, can be supplied to you if so requested.
- iv. If site re-grading leaves less than 36" of cover over the PSCo pipeline(s), the pipe will have to be lowered or additional protection measures installed over the pipe such as concrete capping or steel plating. Any mitigation measures, including engineering of such structures, will be at the expense of the Third Party of the facilities being constructed.
- v. Backfill operations around exposed sections of PSCo’s pipeline(s) shall be inspected by a PSCo representative.

- vi. Any sections of the PSCo pipeline(s) that are exposed during construction must be padded with material passing ¾" minus screens that is non-angular in shape to a depth of one (1) foot above the top of pipe before native material passing 6" minus screens or two (2) feet above the top of pipe before native material passing greater than 6" plus screens can be used for the remaining backfill. Bedding material of an angular nature and/or passing 2" minus screens may be used if rock shield, epoxy coating applied to a thickness of 30 mils or greater, or other abrasion resistant coating, is installed around the pipe over the entire exposed length. Installation of any such additional protective coating installation shall be inspected by a PSCo representative.
- vii. Utilization of flowable fill with cement or fly ash binder material may be utilized once one (1) foot of cover is established over the PSCo pipeline(s) with consolidated, non-abrasive, bedding material. The flowable fill must be able to be excavated with a shovel. The flowable fill shall extend ten feet on either side of the PSCo pipe and extend to the trench walls. The use of flowable fills is subject to approval of the local government authorities.
- viii. Other backfill material not requiring additional compactive effort to obtain required dry densities of the project specifications may be utilized around the pipe. Submittal of a backfill plan and material specifications shall be presented to PSCo HP Gas Engineering and local government authorities for review before approval is granted.
- ix. Permanently added fill over PSCo pipeline(s) shall not exceed a typical depth of cover of four (4) feet over the top of PSCo's pipeline(s) at final grade. Exceptions due to terrain, grading requirements and re-establishment of slopes must be reviewed with PSCo HP Gas Engineering but shall not exceed eight (8) feet of cover over the top of the PSCo pipeline(s).

b. Compaction over PSCo Pipelines

- i. No heavy vibratory compaction equipment (driver operated) will be allowed over or along the length of the PSCo pipeline(s) in the area requiring compaction and for a distance of ten (10) feet on either side of the outside wall of the pipe and ten (10) feet from the ends of the pipe length at the compaction area limits if less than three (3) feet of cover is left over the pipe after sub excavation work is completed.
- ii. Light vibratory compaction equipment (jumping jacks, walk behind or remote control rollers) may be utilized once the minimum one (1) foot of bedding material cover over the top of the PSCo pipeline(s) is established.

c. Facility Crossings

- i. Buried Facility Crossings of the PSCo pipeline(s) will be required to go under or over the PSCo pipeline(s) with a minimum clearance of two (2) feet to the bottom or top respectively of the PSCo pipeline(s).
- ii. Buried facilities installed parallel to the PSCo pipeline(s) must maintain a minimum horizontal separation of ten (10) feet from the pipeline(s). If this minimum horizontal separation cannot be maintained, the top of the facility being installed will be required to be one (1) foot below the bottom of the PSCo pipeline(s) for every foot closer than ten (10) feet to the pipeline(s).

d. Improvements/Structure/Facility Placement

- i. No surface or sub-grade structures or utility facilities will be allowed within the PSCo ROW limits without plan review approval from PSCo HP Gas Engineering and Operations. Potential ignition source facilities shall be a minimum of fifteen (15) from the outside wall of the pipe

e. Landscape Installation

- i. No planting of vegetation will be allowed within the PSCo ROW limits without plan review approval from PSCo HP Gas Engineering and Operations. Under no circumstances will trees be allowed to be planted over the pipeline(s) within the PSCo ROW limits and shall be no closer than fifteen (15) feet from the outside wall of the pipe.

f. Cathodic Protection

- i. A copy of the Requestor Cathodic Protection (CP) System design shall be provided to PSCo for review prior to construction. .
- ii. At crossing locations, Stray Current Mitigation will be required if either pipeline is cathodically protected from a rectified ground bed system. At a minimum this shall consist of a run of two # 8 wires from Public Service Company (PSCo) pipe and 2 # 8 wires up from the third party facility pipe into a common or separate test station for bonding of the two systems together if necessary. The wires could either run to the test station in a common conduit or separate conduits. In addition, four 17# or larger anodes are to be placed in each quadrant of the crossing pipes and placed vertically equidistant between the two pipelines. PSCo will provide the material for its CP test station and assist **Requestor's** contractor with installation of the test station.
- iii. For parallel encroachments, at locations where third party is installing a CP Test Station, the third party will be required to expose the PSCo pipeline(s) for installation of a CP test station for monitoring of interference. PSCo will provide the material for its CP test station and assist the third party's contractor with installation of the test station.

5) Post Construction

a. Permanent Private Road Crossings

- i. Permanent private access roads intended for use by vehicles with a loaded single axle rating of less than or equal to CDOT load limits, must provide and maintain a minimum of **4** feet of cover over the PSCo pipeline(s). Any party needing to cross the PSCo pipeline(s) with vehicles in excess of the CDOT Load Limits per single axel must contact PSCo for additional requirements or place bridging structures over the located pipeline(s).
 - ii. Permanent private access roads intended for use by vehicles with a loaded single axle rating of less than or equal to 20,000 lb per axle, must provide and maintain a minimum of **4 (four)** feet of cover over the PSCo pipeline(s).
 - iii. Tracked equipment crossings of the PSCo pipeline(s) must be made via tractor/lowboy transport adhering to the restrictions of section 5.a.i. and 5.a.ii. If it is desired to track the equipment over the PSCo pipeline(s), PSCo must be contacted to calculate the limits for the specific piece of equipment or provide a bridging structure over the pipeline(s) in accordance with Section 2.a.ii.1.
- b. Four wheel all terrain sport and utility vehicles and dirt bikes are exempt from this section's restrictions. A minimum cover of twelve (12") inches of dirt over the pipe must be present before these vehicles can cross over the pipe.
 - c. It is recommended that Requestor install and maintain load limit signage at all road crossings of the PSCo pipeline(s).
 - d. PSCo will place pipeline markers at all permanent road crossings that are to remain at the conclusion of the installation of the Requestor pipeline.



MEMO

Date: May 12, 2021

To: Aurora Planning From: DEN Planning + Real Estate Through: Jeannette Hilaire/Elise Brenninkmeyer

Subject: East 68th Avenue & Denali Street, #1526761

Denver International Airport (DEN) received your referral letter and we appreciate the opportunity to comment on the proposal. DEN provides the following comments:

- Please show and label DEN property line on all plans where applicable.
- Permit/license language: If grading will occur on DEN property, a permit or license from DEN will be required. If construction will occur on DEN property, a permit or license from DEN will be required.
- Please clarify on Page 3 if Riprap will be installed on DEN property. Any work on DEN property or infrastructure installed on DEN property will require a permit or license from DEN.
- The proposed development is in the **'5-Mile 'Known - Wildlife Attractant' Separation Area** for the final build-out of future DEN Runways, as defined by the Federal Aviation Administration (FAA) and within. The USDA Wildlife Biologists assigned to DEN, assist in implementing DEN's Wildlife Hazard Management Plan (Levi.E.Hodson@usda.gov and Benjamin.J.Massey@usda.gov). They have requested coordination as this project progresses. USDA and DEN will provide assistance with the requirements outlined in the current version of FAA Advisory Circular 150/5200-33C (see link below). DEN also requests that the landscape plan include maintenance of trees and grasses to reduce attractants for wildlife such as raptor species, blackbirds/starlings, and geese. Fruit-producing trees and shrubs should be avoided. Water quality ponds/detention structures must be designed to meet a 48-hour drain time following a 100-year event.

https://www.faa.gov/airports/resources/advisory_circulars/index.cfm/go/document.current/documentnumber/150_5200-33

- The site is found within/under the navigable airspace associated with DEN, as promulgated and regulated by the Federal Aviation Administration (FAA) under 14 CFR Part 77, Objects Affecting the Navigable Airspace. Based on Part 77 and the development site location, the proponent is required to file notice with the FAA, via the FAA Form 7460-1 process (Notice of Proposed Construction or Alteration), of any structure or temporary construction equipment (e.g., cranes) that penetrate Part 77 surfaces. The FAA website from which the need for the 7460 process can be determined ("Notice Criteria Tool") and/or the filing can be initiated is: <https://oeaaa.faa.gov/oeaaa/external/portal.jsp>.