NV ENERGY PLAN REVIEW PROCESS AND STANDARDS FOR PRIVATE AND PUBLIC DEVELOPMENT WITHIN AND ADJACENT TO NV ENERGY TRANSMISSION RIGHTS-OF-WAY

SOUTHERN NEVADA SERVICE TERRITORY – INCLUDES CLARK COUNTY SOUTHERN PORTIONS OF LINCOLN AND NYE COUNTIES

Contents

1. SCOPE

The NV Energy (NVE) Land Resources Department manages and maintains NV Energy's existing and future transmission corridors. These corridors contain 69kV, 138kV, 230kV, 345kV and/or 500kV lines. This document outlines the processes, requirements, and conditions that shall be adhered to in order to ensure short-term and long-term safe and efficient cohabitation of NV Energy's transmission system and public/private development. While this document outlines a lot of information, unique circumstances do arise from time to time and those unique circumstances will need to be addressed based on the intent of this document.

NVE will be checking the improvement plans for internal compliance items and for National Electrical Safety Code (NESC) compliance. **Occupational Safety and Health Administration (OSHA) compliance is not part of this review.** The applicant/customer/developer shall adhere to any and all applicable requirement during both construction and long-term operation and use of their facilities.

The words easements, grants, rights-of-way, and corridors are used interchangeably within this document. All refer to land rights that NVE has obtained for transmission facilities.

Since applications can be submitted by various parties including, but limited to, the Developer, Customer, Land Owner, Engineer, Utility, or Governmental Entity, this document can use these words interchangeably. Each party associated with a project is held to comply with this document.

This process is focused on reviewing locations of physical facilities installed within or near NV Energy's transmission easements. Construction methods and techniques are not considered as part of this review. NV Energy's Safety department shall be consulted before construction via the "Call Before You Crane" and "Call Before You Dig" programs. The following website is dedicated to safe construction.

https://www.nvenergy.com/safety

2. PLAN SUBMITTAL, REVIEW, AND APPROVAL

It is necessary to submit improvement plans for review if the property being developed is within or immediately adjacent to NV Energy transmission high voltage facilities, easements or rights-of-way.

In general, the developer will submit plans and NVE will review those plans for a variety of items. After the review, revisions may be required. When the entire plan set is adequate, NV Energy will issue an approval letter. The following section details that process.

2.1 RED-LINE APPLICATION/PRE-DESIGN MEETINGS

NV Energy can provide redlines showing the existing transmission facilities. Redlines can be requested through an email to Land Resources or during a pre-design meeting.

The customer can request a pre-design meeting with the Land Resources and Transmission Engineering teams. NV Energy can discuss the proposed design and specifics about what is acceptable or not acceptable within the transmission corridors.

2.2 PLAN SUBMITTAL AND REVIEW

A "Plan Submittal Package" consists of an *Application for Plan Submittal Review* along with improvement plans.

Applications are available as Attachment 7, at the information desk of NVE's main building at 6226 W. Sahara, Las Vegas, NV 89146, or online at:

https://www.nvenergy.com/account-services/building-and-new-construction/plan-submittals-south

The improvement plans shall include but not be limited to, at a minimum, the following:

- Grading Plans (must show existing and future grades)
- Utility Plans
- Building plans
- Profiles
- Site Development plans
- Landscape Plans
- Lighting plans
- Sign Details (if applicable)
- Grounding details (if applicable)
- Additional information based on project specific circumstances. This information may not be known at the time of submittal and may be requested after the first, or any subsequent, reviews.

All sheets on the improvement plans must identify:

- The location of existing NV Energy transmission poles (with pole numbers, if available).
- The location and width of NV Energy easement/land rights for the NV Energy transmission facilities.

Please deliver the "Plan Submittal Package" (including all subsequent revisions) to the NV Energy's ROW Management Department for review, by hand or by mail to:

NV Energy – Land Resources
Attn: ROW Management Department
6226 West Sahara Avenue M/S 9
Las Vegas NV 89146

Submittals will be reviewed by NVE's Land Resources department. The Land Resources department will send or e-mail notification confirming the receipt of the completed submittal package. Land Resources will be the primary contact for information regarding the project. Land Resources will review the "Plan Submittal Package" for completeness and to determine the extent of the impact upon NV Energy's transmission easements or rights-of-way (ROW). If the project may impact a Transmission easement then the package will be forwarded to Transmission Engineering as described section 3.

Written notification of the status of your submittal can be provided throughout the review process, as requested by the applicant. A flowchart of the entire submittal and review process is included in Attachment 12. This flowchart outlines the responsibilities for the Applicant, NV Energy Land Resources, and NV Transmission Engineering.

2.3 INCOMPLETE SUBMITTALS

Incomplete submittals will not be processed. The contact provided on the application will be notified if the submittal is incomplete. A transmittal letter will be sent that will indicate the items that need to be addressed

and/or included before the review can proceed. An example of the transmittal letter is included as Attachment 11.

2.4 APPROVAL TYPES

2.4.1 No Conflict Process

In the event there are no transmission corridors/facilities within or adjacent to the proposed development/property, Land Resources will issue a transmittal letter (Attachment 11) that indicates there is no impact to NV Energy transmission facilities and/or rights-of-way. No further action is required unless Applicant's revisions encroach upon NV Energy's ROW.

2.4.2 Private Development Conflict Process

In the event the proposed development encroaches upon NV Energy's ROW, Land Resources will then prepare and send an *Acknowledgement of Responsibility* (Attachment 9) form to the applicant. The Applicant must sign and return *Acknowledgement of Responsibility*, along with a check for the fees. Both the *Acknowledgement of Responsibility* and the fees must be received before the project will be reviewed.

In the event the encroachment is in compliance, Land Resources will issue a *Transmission Use Agreement* to be executed by the applicant. An Exhibit C-1 is included with the TUA that documents the results of the clearance checks. A job aid included as Attachment 13 should help all stakeholders understand the calculations and potential impacts to the project.

In the event the encroachment is not in compliance, the plans will need to be revised and resubmitted or the Comments will be provided on the *Right of Way/Transmission Application Review Notice* (Attachment 11) and the plans may be redlined to show the areas that need to be addressed. If the Applicant cannot or chooses not to revise the plans then the Applicant must agree to relocate or modify NV Energy's transmission facilities accordingly (See Section 3).

A private development project is not approved until a *Transmission Use Agreement* has been executed.

NOTE: The approval is provided for the scope of work shown on the drawings at the time of approval. It will be necessary to follow this same process again for future projects and/or any changes or revisions to the current project.

NOTE: If, at any point during the review process, NVE does not receive any correspondence from the Applicant for a period of six months, the application may be cancelled. If the Applicant wants to move forward after the application has been cancelled then NVE may require the project restart from the beginning of the process.

2.4.3 Governmental Agency or Utility Conflict Process

In the event the proposed development encroaches upon NV Energy's ROW, Land Resources and Transmission Engineering will review for compliance with electrical clearance, access, and maintenance requirements.

In the event the encroachment is in compliance, NV Energy's Land Resources will issue *a Governmental Agency and Utility Authorization Letter (GAL)* (Attachment 10). This document incorporates our *Transmission Use Agreement* terms and conditions in a format specific to Governmental and Utility

projects. An Exhibit C-1 is included with the TUA that documents the results of the clearance checks. A job aid (Attachment 13) has been created in order to help all stakeholders understand the calculations and potential impacts to the project.

In the event the encroachment is not in compliance, the plans will need to be revised and resubmitted or the Comments will be provided on the *Right of Way/Transmission Application Review Notice* (Attachment 11) and the plans may be redlined to show the areas that need to be addressed. If the Applicant cannot or chooses not to revise the plans then the Applicant must agree to relocate or modify NV Energy's transmission facilities accordingly (See Section 3).

A Governmental Agency or Utility project is not approved until a *Governmental Agency and Utility Authorization Letter* has been issued.

NOTE: The approval is provided for the scope of work shown on the drawings at the time of approval. It will be necessary to follow this same process again for future projects and/or any changes or revisions to the current project.

NOTE: If, at any point during the review process, NVE does not receive any correspondence from the Applicant for a period of six months, the application may be cancelled. If the Applicant wants to move forward after the application has been cancelled then NVE may require the project restart from the beginning of the process.

2.5 PROJECT VIOLATIONS

The only documents that are considered approvals, thereby authorizing your project to proceed to construction are:

- No Conflict Letter
- Transmission Use Agreement
- Governmental Agency and Utility Authorization

If the project goes to construction without any of these approvals, you are subject to a *Stop Work Order*. An additional "Advance Subject to Refund" fee of $5000 will be assessed for each incident when our inspectors or staff members are called to the site.

The *Stop Work Order* may trigger a complete stoppage of any outstanding Distribution work orders and new meter sets on the property being developed.

2.6 COMMON DELAYS

These items most frequently delay the completion and approval of projects.

- Incomplete "Plan Submittal Package."
- Applicant does not return *Acknowledgement of Responsibility* and associated fees. (This document is sent to the Applicant after Transmission has reviewed the Plan Submittal Package)
- Drawings devoid of poles, easements, grading and other pertaining details.
- Improvements found to be not in compliance with electrical clearances, access, and maintenance requirements.
- Applicant does not provide requested revisions or information needed to complete the review process.
- Applicant's plans require relocation or modification of NV Energy's facilities.

2.7 TIMELINE

NV Energy recognizes the importance of efficient reviews. The following timelines can be used for guidance when planning. NV Energy will make every effort to meet these timelines, but may need additional time due to various circumstances. The time starts on the date the improvement plans are submitted.

2.7.1 Typical Projects

Typical projects are projects that are under or adjacent to six or fewer spans on a single pole alignment.

- First review – Four (4) weeks
- Subsequent reviews – Two (2) weeks

2.7.2 Atypical Projects

Atypical projects are projects that could include multiple pole alignments or more than six spans that require multiple sets of calculations

- First review – Six (6) weeks
- Subsequent reviews – Three (3) weeks

NOTE: Time for the first review starts once the signed *Acknowledgement of Responsibility* and the applicable fees are received. Time for the subsequent reviews starts when updated improvement plans and/or required documentation is received.

3. TRANSMISSION ENGINEERING DEPARTMENT REQUIREMENTS

NV Energy Transmission Engineering will review all projects when the property or proposed facilities are within or adjacent to NV Energy Transmission facilities and/or easements. The following information may be used as guidance by engineers and planners when determining how to integrate development around transmission facilities. . This information is provided as a reference. Compliance with these guidelines does not guarantee automatic approval of the project. Standard drawings are referenced and included with this document.

3.1. DEVELOPMENT WITHIN TRANSMISSION CORRIDORS

Development within or adjacent to Transmission corridors requires a case-by-case review. All projects require NV Energy approval for conductor clearances. Applicants/Developers/Customers are responsible for complying with all OSHA (Operational Safety and Health Administration) and NESC (National Electric Safety Code) minimum clearances within and outside NV Energy corridors.

In general, NV Energy transmission corridors may be utilized (with the proper NV Energy authorization letter/agreement) for the following secondary uses:

- General Parking of operational vehicles not exceeding 14’ in height. This height will be reviewed on a project specific basis and may need to be decreased.
- Driveways
- Passive recreational parks (trails, grass, benches, etc.)
- Open space/wildlife corridors
- Parking lot/on-site lighting
- Bike, walking and hiking trails within existing ROWs
- Free standing signs

Certain improvements, for safety and liability reasons, are **typically** not allowed within transmission corridors. These include, but are not limited to, the following:

- Long-term parking or storage of non-operational vehicles
- Covered parking
- Excavation, elevation or grade changes
- Parallel Utilities
- Buildings or structures
- Swimming pools
- Pine and palm trees
- Trash enclosures
- Playground Equipment
- Stockpiling of materials and equipment

3.2. CONDUCTOR CLEARANCES

All projects require NVE review of conductor clearances to all other facilities. NESC requires different vertical and horizontal clearances to different objects. General language that says we will/need to check everything. See following sections for details on various types of facilities.

Specific guidance for various facilities is provided in the following sections.

NOTE: NVE's review is focused on ensuring safe clearances to the facilities. OSHA mandates specific clearances when working around energized conductor. Those working clearances are the responsibility of the applicant/developer/customer and are not reviewed by NVE. The applicant/customer/developer shall call the "Call Before you Overhead" line at 702-227-2929 when working around energized facilities.

NOTE: The minimum clearances for operation and maintenance of transmission lines may vary from the established easement width. Calculations to determine the required clearances will be completed by NVE Transmission Engineering and provided to the customer for reference.

3.3. POLE CLEARANCES AND BARRIERS

If NVE transmission poles are adjacent to a roadway or a driveway, certain conditions must be met to ensure the safety of the public and NVE's facilities. Standard guidelines and details are provided in Attachments 1 through 6.

- Distances from poles to other facilities – NV Energy requires various facilities to be minimum distances away from transmission poles. See section 3.10.2
- **Steel protection barriers** – In parking lots and speed restricted streets, bollards may be required to protect the pole from low speed impact (Attachment 1). Bollards can be installed around steel or wood poles.
- **Wood Pole**
    - If the pole is located;
        - Five (5) feet or more behind back of curb – No action is required.
        - Less than five (5) feet behind back of curb – Relocation of the pole will be required unless another protective option is approved by NV Energy.

- **Steel Pole Concrete Barriers** – Concrete Barriers may be required on poles located adjacent to vehicular traffic with speed limits more than 15mph (Attachment 6). They may only be installed on steel poles and not on wood poles. The following provide requirements and guidance on the applicability of concrete barriers.
    - If the pole is located;
        - Five (5) feet or more behind back of curb – No barrier is required.
        - Three (3) feet to five (5) feet behind back of curb – NV Energy prefers relocation of the pole. If pole is not relocated, a barrier is required. Sidewalk width shall meet current ADA Standards.
        - Less than three (3) feet behind back of curb – Relocation of the pole will be required.
    - **Crash attenuators** may be necessary in certain conditions. A Facility Safety Agreement is required in this case. (See Facility Safety Agreement, Section 3.2)
    - **Centerline medians** – NV Energy prefers relocation of the pole. However, a concrete barrier and/or crash attenuator may be sufficient in some cases.
    - NV Energy will design all concrete pole barriers.
    - Facility Safety Agreement is required if any concrete pole barriers are needed (See Section 3.2)
        - Barriers may be constructed by the Applicant or NV Energy.
    - Anti-corrosion pole wraps may be needed if the development is increasing the ground elevation adjacent to the pole. A Facility Safety Agreement would be required.

3.3.1. Public Right-of-Way Accessibility Guidelines (PROWAG) / Americans with Disabilities Act (ADA)

PROWAG shall be adhered to when required by the governing government agency. NV Energy will require pole(s) to be relocated, if pole(s) are Zero (0) to Four (4) feet from front of curb and require to be relocated Five (5) feet or more behind front of curb and toward property line. A Facility Relocation Agreement (section 3.1) will be required. If PROWAG is not being required by the governing governmental agency then the current ADA pole requirements will govern.

When the Federal Highway Administration's (FHWA) officially approves and adopts the Federal PROWAG requirements, NV Energy will require all poles to meet those applicable requirements.

3.4. SUBSTATION PROXIMITY

NV Energy is required to maintain a safe perimeter around all substation walls/fences. The NESC requires NV Energy to ensure that climbing aids are not installed in close proximity to the substation perimeter walls/fences. Facilities including, but not limited to, bus shelters, walls/fences, trees, benches, etc. are generally considered climbing aids. The NESC requires six feet of horizontal separation and/or seven feet of vertical separation from such objects. Substation proximity will be reviewed with the rest of the application.

3.5. UNDERGROUND TRANSMISSION PROXIMITY

NV Energy has underground transmission throughout the service territory. Since underground facilities are not as easy to see from a visual site visit, it is critical that the developer contact NV Energy to find out if underground transmission is within the project area. NV Energy will generally have an easement width of about 20 feet wide, although this could vary depending on the vintage, configuration of the duct bank, number of circuits, etc. NV Energy will allow utilities to cross the duct bank as long as necessary separations are maintained. The minimum vertical separation is 24 inches above and below the duct bank. Parallel utilities with the easement are discouraged because they could impede restoration or repair efforts if the duct bank trench needs to be excavated. Contact NV Energy early in the project to discuss options. NV Energy can provide duct bank plan and profile drawings for the project area.

3.6. BUILDINGS AND STRUCTURES

Buildings and structures are not allowed in NV Energy corridors. Architectural plans are required to be submitted for review when awnings and other projections/overhangs are to be checked for easement encroachments.

3.7. SIGNS

Signs must be grounded to the designated highest voltage on the existing transmission line(s) as outlined in the NESC. See section 2.4 for grounding requirements.

3.8. GROUNDING REQUIREMENTS

Any metallic object, including, but not limited to, fencing, light poles, railings, gates, etc. constructed within transmission easements (and those that fall within the calculated horizontal clearance width) will require adequate grounding per NV Energy requirements in this section. NV Energy may, in addition, require items that fall outside of the existing NV Energy easement to be grounded. All items must also be approved for vertical clearance. The grounding must be designed for the highest voltage on the concerned transmission line.

The grounding plans shall consist of the following:

- The customer is responsible to provide grounding plans integrated into their improvement plans.
- The grounding plans must be signed and stamped by a licensed State of Nevada Electrical Engineer.
- The grounding plans shall include a note stating: “Grounding details meet NV Energy Requirements for a [add NVE provided voltage] kV line”. NV Energy will provide the transmission voltage (69kV, 138kV, 230kV, 345kV or 500kV) for the specific project.
- The improvement plans shall clearly identify construction notes for all metallic items. Construction notes for those metallic items shall reference the applicable grounding drawing(s) and their appropriate detail and section numbers.

NV Energy Minimum Grounding Specifications:

- Fencing or Railings: Grounds shall be installed on every other fence/rail post that falls within the NV Energy easement. This applies where the fence/rail either crosses or runs parallel to the transmission line.
- Gates: Grounds shall be installed on both of the moving sections and the stationary post.
- Stand-alone items including, but not limited to, signs, cattle guards, light poles, etc. shall be grounded at a single location.
- Minimum Ground: At a minimum the Ground shall consist of an eight (8) foot ground rod connected with 4/0 copper, 7#8, 19#9 copperweld, or equivalent, wire using a clamp or compression fitting. (Copperweld is preferred to copper to minimize loss due to copper theft.)

Note: For unique situations NV Energy may require a detailed study to be performed by the Applicant. Examples of unique situations include, but are not limited to, parallel pipelines, railroad tracks, long parallel fencing, soil conditions, etc.

3.9. TRAILS/PARKS/OPEN SPACES

NV Energy allows trail, park, and open space joint use within easements with the following conditions.

- **Trail Access** - Proposed trails within easements shall provide for access as outlined in section 3.10 in order to accommodate access for NV Energy's maintenance/emergency vehicles, facilities, and maintenance pad areas. Access shall be clearly defined on the improvement plans.

- **Trail Amenities** – Trail amenities including, but limited to the following, are reviewed and approved on a case by case basis:
    - Concrete benches
    - Kiosk signs
    - Recreational/exercise station equipment
    - Trash bins/doggy clean up stations
    - Landscaping – Landscaping types will be reviewed to ensure they will not grow large enough to encroach into the conductor in the future.

- **Trail Lighting** – Light fixtures for illuminating the trail will be reviewed for clearance and are subject to meet grounding requirements per Section 3.8.

- **Trail Material** – Trail material shall be used that provides adequate strength for NV Energy's maintenance/emergency vehicles. NV Energy prefers that the trail material be constructed of concrete. Applicant can request other trail material be used if Applicant is willing to sign Liability Agreement that releases NV Energy of any damages to trail and other facility while maintaining NV Energy's facilities.

- **Trail Design** – Trail widths shall be at least twelve (12) feet in width to accommodate NV Energy's maintenance/emergency vehicles. Grades cannot exceed 15% along the trail and cross slopes cannot exceed two-percent (2%).

- **Bike/Horse Trails**- Bike/Horse Trails are reviewed and approved on a case by case and are subject to the same guidelines in this section and throughout this process. Bike trails proposing to use the natural ground as their trail require approval due to possible erosions, potholes and damage to NV Energy's existing access roads. Bike/Horse trails are not be allowed in those existing corridors that contain down guy structures for safety purposes.

Please note all items shall comply with the requirements outlined in this process.

3.10. GRADE CHANGES AND ACCESS

Ground elevations within the easement are critical to the safe operation of NV Energy's facilities. Any changes, whether cut or fill, could negatively impact several factors including pole stability, conductor clearance, and access. Each is discussed below.

3.10.1. Grade Changes

- **Pole/Foundation Stability –** Ground elevations around the poles are critical. Grade changes shall be clearly identified on the improvement plans to show the existing and proposed elevations adjacent to the poles. Existing grade should be maintained as much as possible. NV Energy will review any proposed grade changes on a case-by-case basis. A decrease may negatively impact the structural capacity and stability of the pole. An increase could reduce clearance from the ground to the conductor or could result in soil being placed against an unprotected portion of the pole. If a grade increase is approved, a Facility Safety Agreement may be required so that NV

Energy can apply an anti-corrosion coating to the pole. In some cases, grade changes can trigger pole relocations. See Attachment 2 for details regarding pole stability when excavation will be performed around a pole.

- **Mid-Span Clearances –** The distance from conductor to the ground is one of the biggest items that impacts NV Energy's ability to safely transmit electricity. Filling within an easement may or may not be allowed based on the existing and proposed elevations. It is very important to clearly identify proposed grading with the easements.

3.10.2. Access

- **Maintenance Pads –** NVE has established the space required for conducting maintenance around NV Energy poles, as shown on the Maintenance pad exhibits (Attachments 3 and 4). Maintenance pad grades are required to be relatively flat and unobstructed to allow for maintenance truck operation. Maintenance pad must be able to withstand the weight of NV Energy boom trucks.

- **ROW Access –** Clear unobstructed access is required along the length of NV Energy ROWs. Gates or other obstructions are typically not allowed unless they comply with sections 3.10 and 3.11. If gates are necessary, the customer shall install an NVE provided lock installed in series with other locks on the gate. See section 3.11.2 for additional details on gates.

- **Riprap and Open Channels/Drainages –** Proposed riprap and open channels within NV Energy's rights-of-way are typically not allowed, although customers may request a project specific review for approval of riprap and open channels with shallow depths/slopes, bridge access, and other specified requests. NV Energy requires access to all part of the right-of-way and riprap and channels can potentially block that drive path.

- **Bridges and Culverts –** Proposed bridges and culverts within the development must be designed to withstand the weight of NV Energy boom truck shown in Attachment 5 if the bridges and culverts are to be utilized to access existing or future transmission corridors.

- **Retaining Walls and Ramps –** Retaining walls may be required to protect NV Energy's existing and future facilities and maintenance areas that require that the soil be stabilized and compacted to avoid slope fall off and being washed away during rain storms etc. due to increased and/or decreased grade elevations. Ramps and slopes shall be installed to meet required minimum percent slope access for NV Energy's service vehicles that are designed to withstand their weight of the vehicles for access to NV Energy's existing facilities.

3.11. FENCES/WALLS/GATES

This section addresses fences, walls, and/or gates that are along alleys, back lot lines, etc. that are not owned by NVE and are within an easement or on the easement boundary.

3.11.1. Fences/Walls

Fences must provide continuous access to NV Energy corridors and must be maintained. Metallic fences require adequate grounding. See sections 3.7 and 3.8.

3.11.2. Gates

NV Energy corridors must be open and accessible for maintenance of poles. Corridors or facilities that are inside of gated communities or other gated areas such as parking lots or alleys cannot be blocked

with walls and must include gates as outlined in this section. NV Energy will review and approve the location and size of gates. Gates shall allow NV Energy to gain 24 hour access to all areas with NV Energy's corridors and/or NESC horizontal clearance areas. See Section 3.2. The developer shall use NV Energy provided locks along with manual releases on electronic gates. Gates must meet the minimum vertical clearance for the lines they are under. Metallic gates require adequate grounding per section 3.8 and 3.10.2.

- **Gated Developments –** Gated developments, whether for a community or other gated facility, which install electronical gates shall adhere to requirements in this section. The ingress/egress for NV Energy vehicles shall be a minimum of 12 feet wide. All electrical vehicular gate accesses shall have two means of opening as follows:
    - Approved automated means of opening via a transmitter located on NV Energy vehicles similar to first responder access.
    - Capability to disengage automated function and manually open the vehicle gate.

  In case the vehicle gate cannot be manually opened from the outside, a separate personnel gate shall be installed near the vehicle gate that can be opened by unlocking an NV Energy standard padlock.

- **Manual Gates –** Developer shall provide approved manual gates for NV Energy's 24 hour access by providing and installing an 8-1/2" X 11" "NV Energy 24 Hour Access" sign, as shown in Attachment 14, that is mounted on gate in a conspicuous location. Developer shall install an NV Energy provided padlock that can be used to gain unobstructed access through vehicular gates. NV Energy's standard padlocks can be obtained from the Land Resources department at 6226 West Sahara Avenue.

Note: All exceptions must be approved by NV Energy.

3.12. STREETLIGHTS/PARKING LOT LIGHTS/ON-SITE LIGHTS/TRAFFIC SIGNALS

Lights and traffic signals must meet the minimum vertical clearance for the lines they are under. It is the Customer's responsibility to provide a detail of any streetlights, parking lights, and signals that are planned within a transmission corridor (See Sections 3.8 Grounding Requirements and 3.9.1 Access).

3.13. EXISTING TRANSMISSION CORRIDORS FOR CURRENT OR FUTURE USE

NV Energy generally acquires rights-of-way for the ultimate configuration of the corridor. Do not assume that existing NV Energy transmission corridors are being fully utilized. Most are capable of accommodating additional lines and equipment, including underground lines and equipment. NV Energy will review the submittal for compliance with future facilities as well as the existing facilities.

3.14. PARALLEL UTILITIES

NV Energy typically does not allow other utilities including, but not limited to, telecommunications, sanitary sewer, storm drain, water, gas, or irrigation lines to be built parallel to NV Energy lines within the transmission corridor/easement. Every effort should also be made to locate any above-ground installations such as valves and meters out of NV Energy easements. Easements need to be kept free from underground facilities in the event that poles need to be relocated or so that a new pole alignment can be installed within the existing easement, per section 3.12.

It is understood that utilities will occupy the area under sidewalks and street asphalt. This is allowed.

NV Energy will review requests to place utilities parallel to NV Energy's existing overhead lines within NV Energy's easements/ROWs on a case by case basis. Applicant shall show that it has exhausted all other engineering options, before designing utilities parallel to NV Energy's facilities and ROWs. NV Energy may review request for approval of a short distance of proposed utilities paralleling NV Energy's facilities or ROW's.

3.15. SIGHT VISIBILITY ZONE REQUIREMENT (SVZ)

Sight visibility zones are required to be shown on the improvement plans that meet local government and Regional Transportation Commission's (RTC) uniformed standards and code requirements for SVZs. If NV Energy's facilities are within the SVZ, NV Energy will require relocation of its facilities to be outside of the SVZ. See section 4 for details about relocation requirements.

Note: NVE does not accept waivers from government agencies for SVZs. NV Energy requires relocation of its facilities within a SVZ even if a customer has acquired approval on their improvement plans and/or waiver by a local government agency.

4. RELOCATION/FACILITY SAFETY AGREEMENTS

Any improvements determined to be in conflict with transmission facilities may require relocation or safety modification of the pole(s). A separate process must be followed. Relocation projects are funded by the Applicant and subject to additional costs and will require additional time. Due to the dynamic nature of our transmission grid, certain projects may only be completed during off peak electrical seasons and are subject to outage schedules. Design requirements and material availability may also impact these projects.

Note: A T*ransmission Use Agreement* or *Governmental Agency and Utility Authorization* will still be required when a Facility Relocation Agreement or Facility Safety Agreement is executed.

4.1. FACILITY RELOCATION AGREEMENT/DESIGN COST AGREEMENT

A *Facility Relocation Agreement* (FRA) is required when NVE facilities are to be relocated or significantly modified to be in compliance with NVE or NESC requirements and standards. The Applicant/Customer will be assigned an NV Energy Project Engineer/Project Manager once the project is identified as a relocation project. Based on project scope and schedule, a *Design Cost Agreement* (DCA) may be necessary ahead of the FRA. A DCA allows for design to commence prior to full scoping of the project.

Relocation Procedures:

- Applicant submits 30% (or better) improvement plans to NV Energy ROW Management
- NV Energy provides preliminary cost estimate
- Applicant sends approval acknowledgement of cost estimate
- NV Energy prepares design and/or relocation agreement
- Applicant and NVE executes *Relocation Agreement* and applicant pays invoice.
- Applicant approves final design and revise the improvement plans to show Transmission Engineering's final design and resubmits drawings to ROW Management
- Applicant obtains easements and Special Use Permits,
- NV Energy prepares & releases final construction turnover package (CTO)
- NVE prepares, and Applicant executes, Transmission Use Agreement(s) and/or Governmental Authorization Letter,
- NV Energy sets construction schedule once all permits, agreements and easements are executed and outages are approved

- NV Energy starts construction

Note: The Project Engineer/Project Manager will not initiate a relocation/safety modification project without a signed agreement and receipt of fees. Governmental relocation/safety modification projects will not be initiated without a signed agreement and a check or a purchase order number for the estimated amount of the project.

4.2. FACILITY SAFETY AGREEMENT

A Facility Safety Agreement (FSA) is required when minor modifications or support needs to be made to NVE facilities. Those minor items include, but are not limited to, concrete protection barriers, crash attenuators, ground line collars, or other facilities that are not associated with pole relocations. In addition, this could also cover NVE's costs when supporting a pole with a crane during close proximity excavation. FSAs generally include labor costs only but, may involve fees and other costs if NVE is involved in engineering or construction activities (See section 4.1 for Facility Relocation procedures and section 3.3 for Pole clearances and Barriers).

5. DOCUMENTS AND LETTERS

The following are the types of written notifications you may receive as part of the application and review. Each document is identified by name and a brief description is provided to define the purpose and indicate under what circumstances they are used.

5.1. RIGHT-OF-WAY/TRANSMISSION APPLICATION REVIEW NOTICE

This document is used to communicate the results of the review to the Applicant. NV Energy will indicate whether the project poses no conflict, is approved as submitted, whether revisions are required, or whether the plan set was incomplete. In the case where revisions are required, NV Energy will not take any further action on the project until the Applicant resubmits improvement plans in accordance with the notes in the document.

5.2. ACKNOWLEDGEMENT OF RESPONSIBILITY

This document is provided by the ROW Management to identify the party responsible for authorizing NV Energy to proceed with the *Transmission Use Agreement* and to ensure that they will return a completed agreement prior to construction. It also identifies the fee amount for the project. The Customer must sign and return the document with a check for the fee amount. Projects will not be processed further without a signed *Acknowledgement of Responsibility* and fees.

Note: No fee is assessed from Governmental Agencies and Utilities.

5.3. TRANSMISSION USE AGREEMENT

A *Transmission Use Agreement* (*TUA*) is issued by Land Resources to the Customer after the satisfactory review of the customer plans. It defines the legal requirements of the development within NV Energy corridors and/or around or near Transmission facilities. It is project specific and contains the results of analysis of specific project requirements. Any changes or revisions to a project after the issuance of a *Transmission Use Agreement* may be considered a new project. At NVE's discretion, revisions could be handled as a revision to the existing approved TUA. A private development project is not approved until a *Transmission Use Agreement* has been executed. The executed *Transmission Use Agreement* will be record at the Clark County Recorder's Office by NV Energy's Land Resources department.

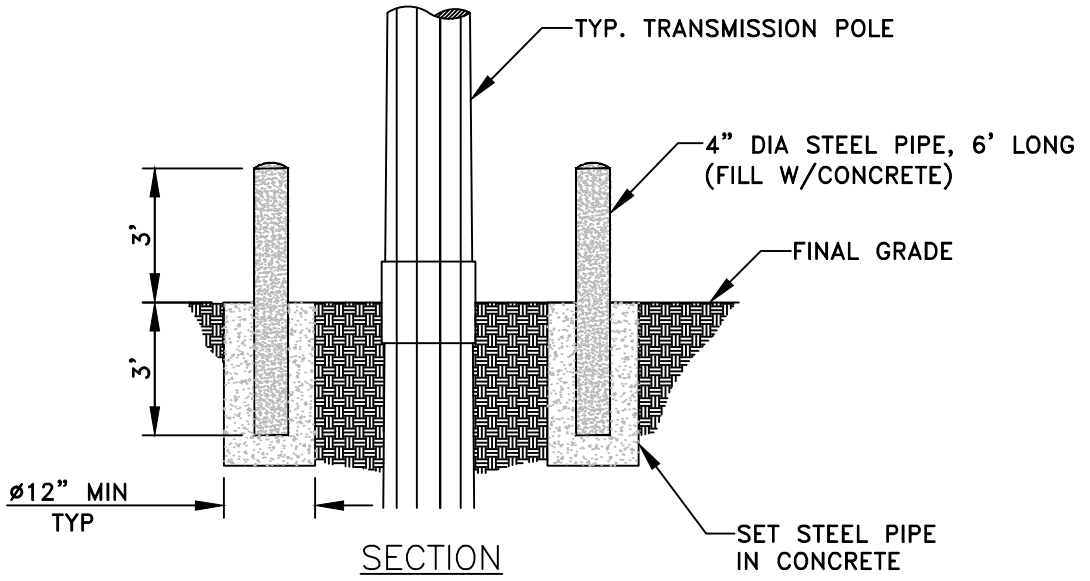
5.4. GOVERNMENTAL AGENCY AND UTILITY AUTHORIZATION

These are issued to Governmental Agencies and Utilities in place of a *Transmission Use Agreement*. Governmental/Utility projects still require the same review process as other projects. Any changes or revisions to a project after the issuance of a *Governmental Agency and Utility Authorization* may be considered a new project. At NVE's discretion, revisions could be handled as a revision to the existing approved GAL. A Governmental Agency or Utility project is not approved until a *Governmental Agency and Utility Authorization* has been executed.

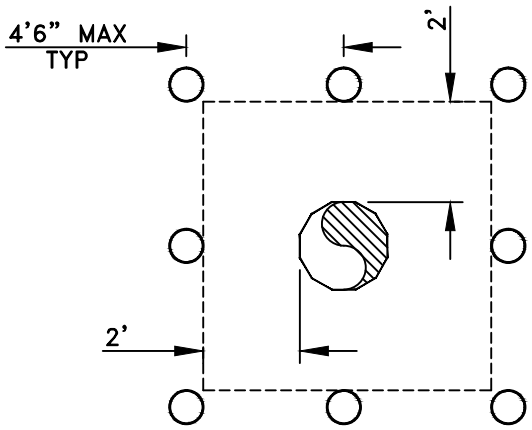
5.5. CONSTRUCTION AUTHORIZATION

A *Construction Authorization* may be issued at the discretion of NV Energy Transmission Engineering and Land Resources to approve and release specific portions of a project for construction before a *Transmission Use Agreement* is issued. This is not an approval of the project. The appropriate agreement or authorization must be completed before a project is approved.

6. ATTACHMENTS



SECTION



NOTES:

1. STEEL PROTECTION BARRIERS TO BE INSTALLED WHEN TRANSMISSION POLES ARE LOCATED LESS THAN 5' FROM BACK OF CURB OR WHEN NO CURB EXISTS IN PARKING LOTS OR SPEED RESTICTED STREETS WITH 15MPH MAX SPEED LIMIT.
2. IF MAX SPEED LIMIT IS HIGHER, REFER STD–D6 FOR CONCRETE PROTECTION BARRIERS.
3. BARRIERS ON SIDES NOT ACCESSIBLE TO VEHICLES MAY BE OMITTED.
4. PROVIDE ADEQUATE CLEARANCE FOR EQUIPMENT ITEMS SUCH AS SWITCH OPERATING HANDLES.
5. BARRIERS TO BE PAINTED WITH YELLOW STREET MARKING PAINT.
6. CALL BEFORE YOU DIG AT (800) 227 2600 PRIOR TO THE COMMENCEMENT OF EXCAVATING ACTIVITIES.

NOT TO SCALE

DRAWING INFO.		
DRAWN	04/01/03	JLH
DESIGNED	04/01/03	JLH
CHECKED	04/01/03	SA
APPROVED	04/01/03	SA
	DATE	BY
REV. 1	11/12/08	DP

NVEnergy
TRANSMISSION ENGINEERING STANDARDS

VEHICULAR PROTECTION BARRIERS FOR TRANSMISSION POLES EXHIBIT C–3

SHEET: 1 OF 1 | DWG. NO.: STD–D1

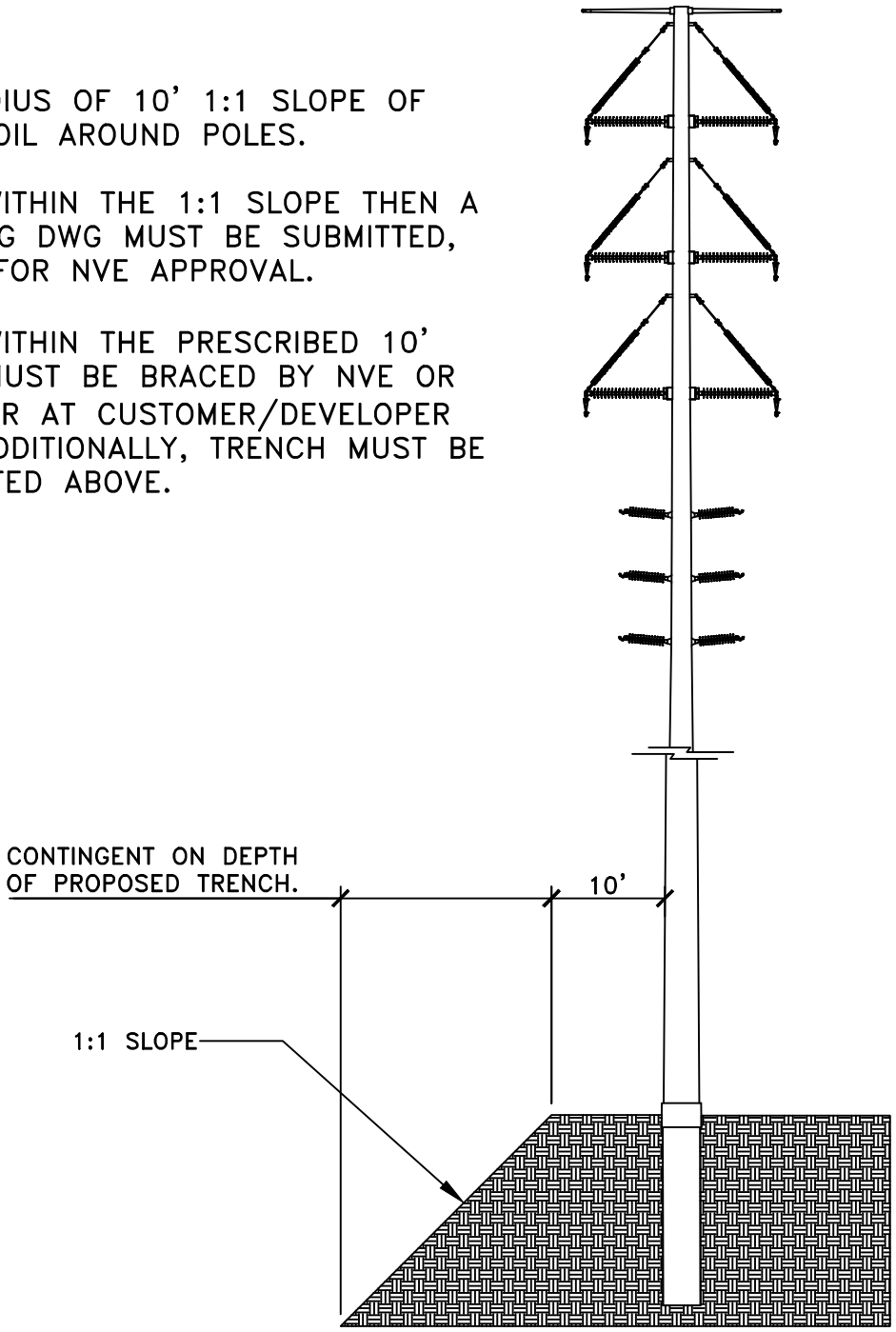
G:\CONFLICT\CONFLICT STANDARDS\CONTROLLED MASTER FILES\D1 - 8 INCH STEEL PROTECTION BARRIERS.DWG

REQUIREMENTS:

MAINTAIN A RADIUS OF 10' 1:1 SLOPE OF UNDISTURBED SOIL AROUND POLES.

IF TRENCH IS WITHIN THE 1:1 SLOPE THEN A TRENCH SHORING DWG MUST BE SUBMITTED, P.E. STAMPED, FOR NVE APPROVAL.

IF TRENCH IS WITHIN THE PRESCRIBED 10' RADIUS, POLE MUST BE BRACED BY NVE OR NVE CONTRACTOR AT CUSTOMER/DEVELOPER SOLE COST. ADDITIONALLY, TRENCH MUST BE SHORED AS NOTED ABOVE.



DRAWING INFO.		
DRAWN	6/12/01	JLH
DESIGNED	6/12/01	JLH
CHECKED	6/12/01	SA
APPROVED	6/12/01	SA
	DATE	BY
REV. 1	11/12/08	DP

NVEnergy

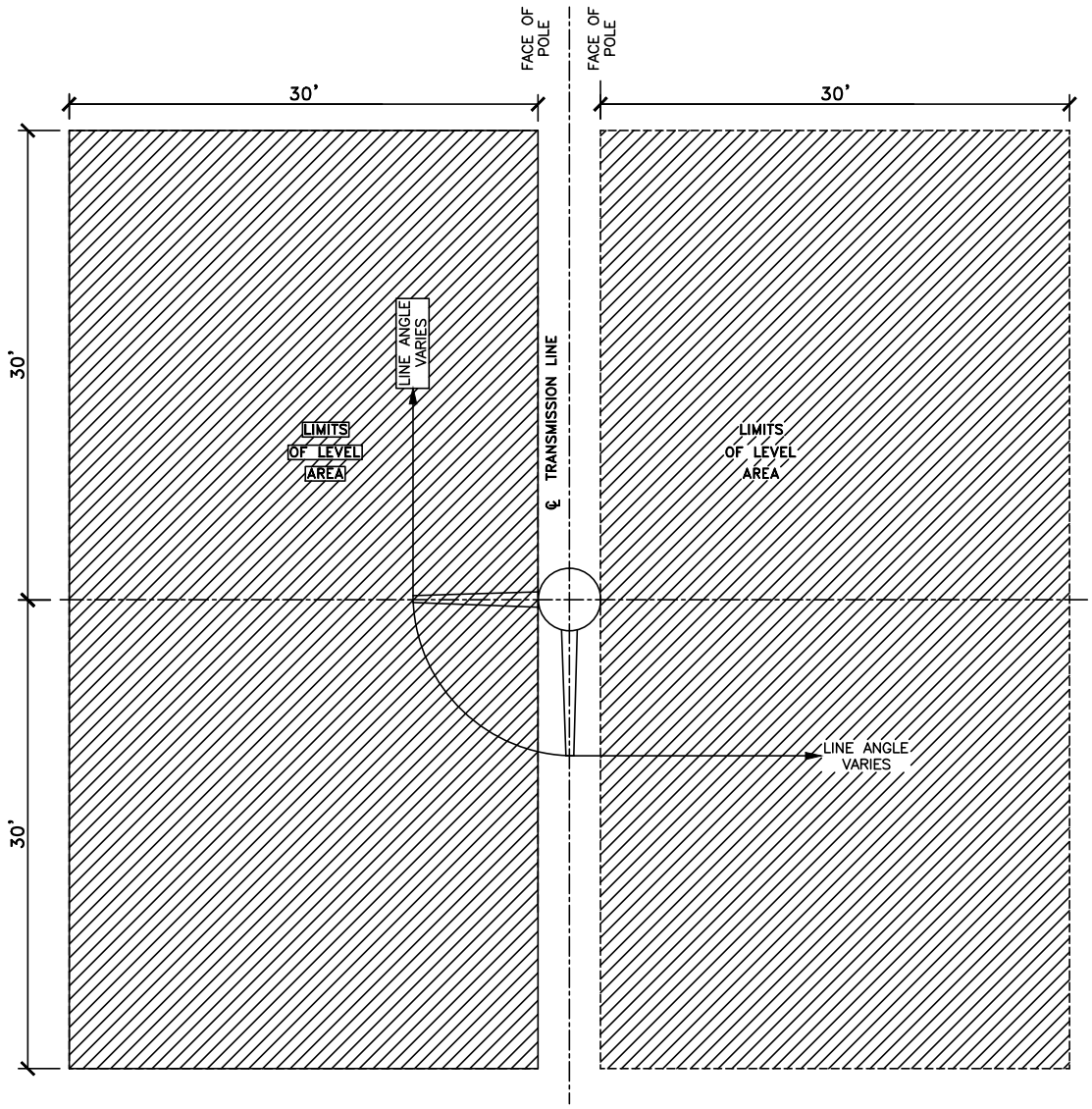
TRANSMISSION ENGINEERING STANDARDS

TRENCH DETAIL POLE STABILITY EXHIBIT C-4

SHEET: 1 OF 1

DWG. NO.: STD-D2

G:\CONFLICT\CONFLICT STANDARDS\CONTROLLED MASTER FILES\D2 TRENCH DETAIL POLE STABILITY.DWG



TRANSMISSION POLE
MAINTENANCE AREA

1. COMPLIANCE WITH ALL NESC & OSHA REQUIREMENTS.
2. MATERIALS AND EQUIPMENT CAN NOT BE STOCKPILED UNDER LINES.
3. POLE BOLLARDS ARE REQUIRED AND SHALL BE INSTALLED BY THE OWNER IF PARKING IS WITHIN 10' OF ANY TRANSMISSION STRUCTURE.
4. A 40'x40' LEVEL AND UNOBSTRUCTED AREA, ORIENTED ON CENTER OF POLE, MUST BE MAINTAINED ON ALL DEADEND STRUCTURES TO ALLOW ACCESS FOR MAINTENANCE PURPOSES. (SEE DETAIL ABOVE FOR CLARIFICATION)

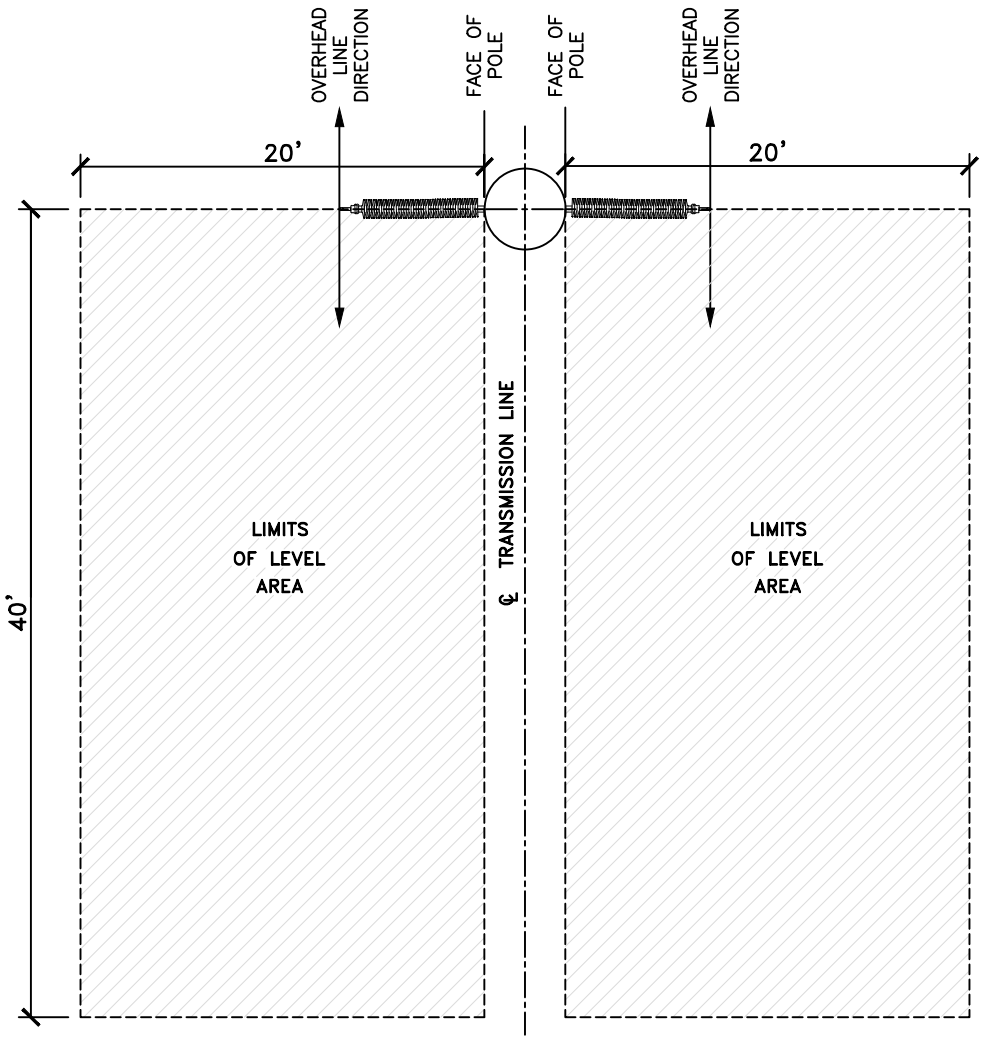
DRAWING INFO.		
DRAWN	01/24/01	PH
DESIGNED	01/24/01	MDV
CHECKED	04/07/01	SA
APPROVED	04/07/01	SA
	DATE	BY
REV. 3	08/27/18	MI

NVEnergy
TRANSMISSION ENGINEERING STANDARDS

NV ENERGY CRITERIA FOR MAINTENANCE ACCESS DEADEND STRUCTURE EXHIBIT C-2 (1 OF 2)

SHEET: 1 OF 1 | DWG. NO.: STD-D3

G:\CONFLICT\CONFLICT STANDARDS\CONTROLLED MASTER FILES\D3 MAINTENANCE ACCESS DEAD END POLE_8.27.18.DWG



TRANSMISSION POLE MAINTENANCE AREA

1. COMPLIANCE WITH ALL NESC & OSHA REQUIREMENTS.
2. MATERIALS AND EQUIPMENT CAN NOT BE STOCKPILED UNDER LINES.
3. POLE BOLLARDS ARE REQUIRED AND SHALL BE INSTALLED BY THE OWNER IF PARKING IS WITHIN 10' OF ANY TRANSMISSION STRUCTURE.
4. A 40'x40' LEVEL AND UNOBSTRUCTED AREA, ORIENTED WITH TRANSMISSION CENTER LINE, MUST BE MAINTAINED ON ALL TANGENT STRUCTURES TO ALLOW ACCESS FOR MAINTENANCE PURPOSES. (SEE DETAIL ABOVE FOR CLARIFICATION)

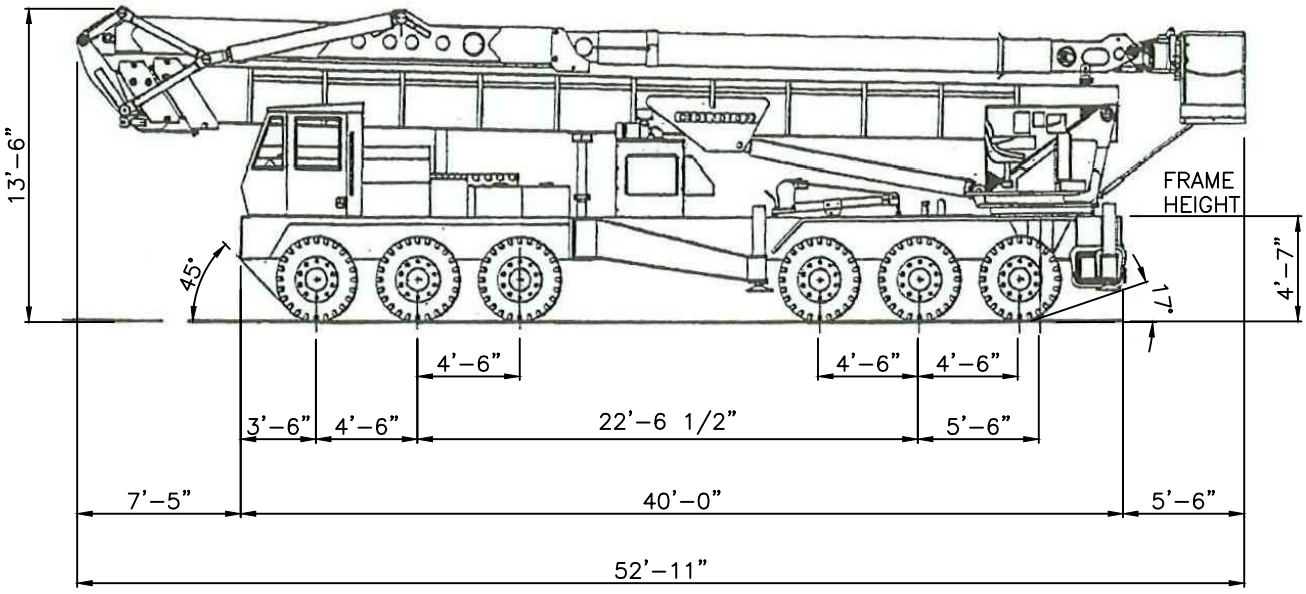
DRAWING INFO.		
DRAWN	01/24/01	PH
DESIGNED	01/24/01	MDV
CHECKED	04/07/03	SA
APPROVED	04/07/03	SA
	DATE	BY
REV. 2	08/05/10	AC

NVEnergy
TRANSMISSION ENGINEERING STANDARDS

NV ENERGY CRITERIA FOR MAINTENANCE ACCESS TANGENT STRUCTURE EXHIBIT C-2 (2 OF 2)

SHEET: 1 OF 1 | DWG. NO.: STD-D4

G:\CONFLICT\CONFLICT STANDARDS\CONTROLLED MASTER FILES\D4 MAINTENANCE ACCESS TANGENT POLE.DWG



FEATURES/OPTIONS

1. 1500 LBS UNRESTRICTED CAPACITY
2. INTERCHANGEABLE STEEL PLATFORM
3. 180° PLATFORM ROTATION
4. FRONT SWING OUT OUTRIGGERS
5. REAR DOUBLE TELESCOPING OUTRIGGERS
6. 24" OUTRIGGER PENETRATION
7. 360° CONTINUOUS ROTATION
8. ALUMINUM WHEELS
9. ALUMINUM FENDERS
10. 36" X 36" OUTRIGGER FLOATS
11. 500kV ELECTRICALLY CERTIFIED
12. DECK MOUNTED ENGINE OPTION SHOWN

ESTIMATED WEIGHTS:

FRONT – 45000 LBS
REAR – 50000 LBS
TOTAL – 95000 LBS

PENETRATION SPECS:

VERTICAL PENETRATION 2 FEET PER OUTRIGGER
SIDEWAY 24 FEET OUTRIGGER SPAN ON 2:24 MAX. SLOPE
FRONT TO BACK 28 FEET OUTRIGGER SPAN ON 2:28 MAX. SLOPE

OTHER SPECS:

WIDTH = 8'-6"
GRADABILITY=25%
MIN. TURNING RADIUS (CURB TO CURB) = 82'-4"
APPROACH ANGLE = 45°
DEPARTURE ANGLE = 17°

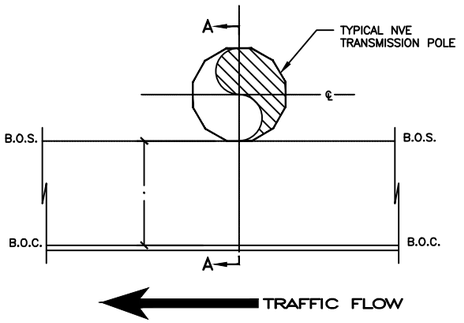
DRAWING INFO.		
DRAWN	11/12/08	AC
DESIGNED	11/12/08	DP
CHECKED	11/12/08	SA
APPROVED	11/12/08	MF
	DATE	BY
REV. 1	11/12/08	AC

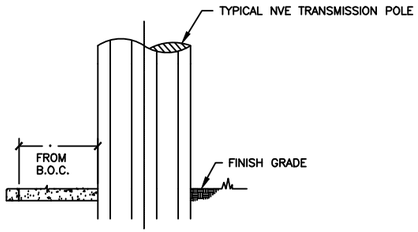
NVEnergy
TRANSMISSION ENGINEERING STANDARDS

CONDOR MODEL 180-I INSULATED BOOM TRUCK 12 X 8 TORQUE BOX CHASSIS

SHEET: 1 OF 1 | DWG. NO.: STD-D5

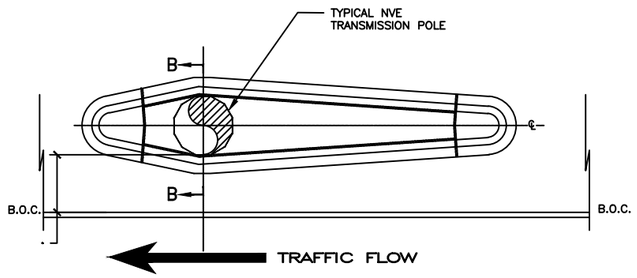
G:\CONFLICT\CONFLICT STANDARDS\CONTROLLED MASTER FILES\D5 BOOM TRUCK SPECS.DWG

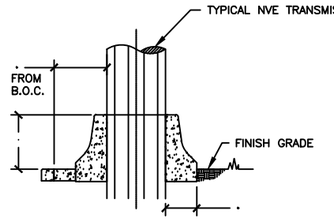




SECTION A–A

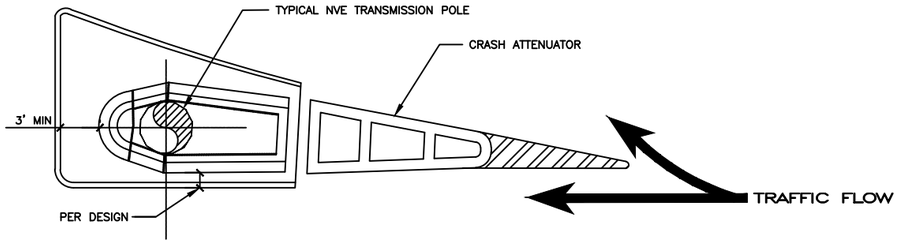
DETAIL "A"
GREATER THAN OR EQUAL TO 5.0' FROM B.O.C.

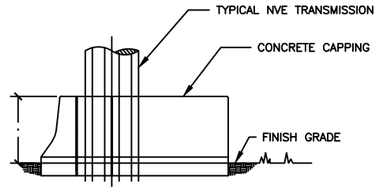




SECTION B–B

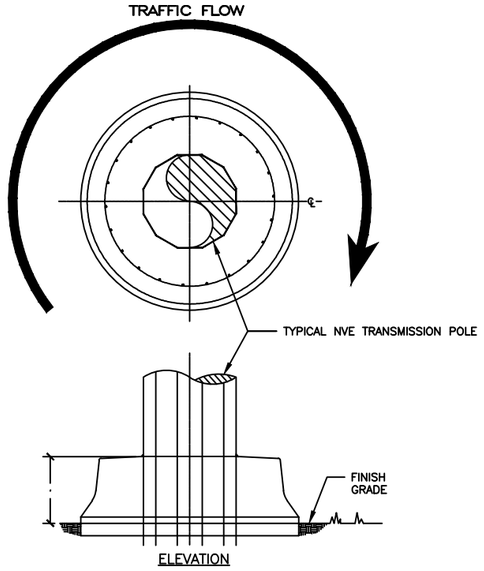
DETAIL "B"
BETWEEN 3.0' AND 4.9' FROM B.O.C.



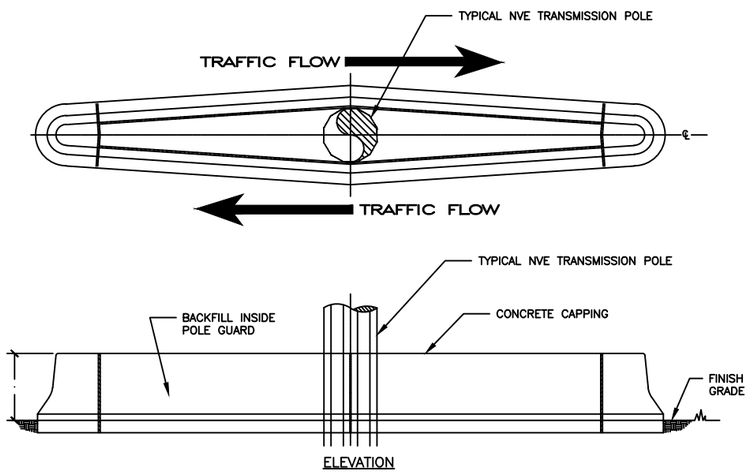


ELEVATION

DETAIL "C"
IN PORK CHOP ISLAND



DETAIL "D"
FOR 25MPH MAXIMUM SPEED AREAS



DETAIL "E"
IN CENTER MEDIAN

GUIIDELINES:

DETAIL "A' CANNOT — THE FACE OF AN UNPROTECTED STEEL POLE MUST BE AT LEAST 5.0' FROM BACK OF CURB. IF THIS BE MAINTAINED, REFER TO DETAIL "B".

DETAIL "B" — CONCRETE BARRIER TO BE INSTALLED IF THE AVAILABLE CLEARANCE IS BETWEEN 3.0' AND 4.9' FROM BACK OF CURB TO THE FACE OF THE POLE. SIDEWALK MAY BE ROUTED AROUND BACK SIDE OF POLE.

IF SIDEWALK IS TO BE INSTALLED ON THE STREET SIDE ALONG WITH THE POLE BARRIER, CUSTOMER IS RESPONSIBLE TO MEET RTC AND/OR ADA REQUIREMENTS ON MINIMUM SIDEWALK WIDTH.

IF A MINIMUM CLEARANCE OF 3.0' IS NOT AVAILABLE FROM BACK OF CURB TO THE FACE OF THE POLE, THE POLE WILL REQUIRE RELOCATION.

DETAIL "C" — PORK CHOP ISLAND CONFIGURATION IS CONTINGENT UPON POLE BARRIER AND CRASH ATTENUATOR DESIGN.

DETAIL "D" — CONCRETE BARRIER FOR LOW SPEED AREAS: ALLOWED ONLY FOR A 25MPH MAX SPEED ZONE.

DETAIL "E" — CONCRETE BARRIER FOR ROAD CENTER MEDIAN TO BE INSTALLED WHEN: FACE OF POLE TO BACK OF CURB IS LESS THAN 5.0', OR NO CENTER MEDIAN EXISTS. CRASH ATTENUATOR MAY BE NECESSARY. REFER TO DETAIL "C".

GENERAL NOTES:

1. CONCRETE POLE BARRIERS FOR STEEL POLES ONLY. REFER TO SECTION 3.3 FOR WOOD POLE REQUIREMENTS.
2. ALL CONCRETE BARRIERS ARE INDIVIDUALLY ENGINEERED FOR THE GIVEN STEEL POLE BY NVE. APPLICABLE BARRIER DESIGN WILL BE PROVIDED.
3. NVE FACILITY SAFETY AGREEMENT IS REQUIRED IF BARRIER IS BUILT.
4. BARRIER CAN BE INSTALLED BY NVE AT CUSTOMER COST OR CUSTOMER CAN INSTALL AS PER NVE DESIGN.
5. POLE BARRIER INSTALLATION WILL BE INSPECTED BY NVE AT EACH STAGE OF INSTALLATION IF WORK IS NOT PERFORMED BY NVE.
6. CRASH ATTENUATORS, WHEN NECESSARY, WILL BE INSTALLED, OWNED AND MAINTAINED BY OTHERS. NVE FACILITY SAFETY AGREEMENT IS REQUIRED.
7. IF MAX SPEED LIMIT IS 15MPH OR LESS, REFER TO STD–D1 FOR STEEL BARRIERS.

DRAWING NOT TO SCALE

DRAWING INFO.		
DRAWN	06/20/08	DP
DESIGNED	06/20/08	SA
CHECKED	06/20/08	DMc
APPROVED	06/20/08	MF
	DATE	BY
REV. 3	8/1/18	MI

NVEnergy
TRANSMISSION ENGINEERING STANDARDS

CONCRETE BARRIERS FOR STEEL TRANSMISSION POLES

SHEET: 1 OF 1 | DWG. NO.: STD–D6

G:\CONFLICT\CONFLICT STANDARDS\CONTROLLED MASTER FILES\D6 CONCRETE POLE BARRIERS.DWG

Project Number: .....
(ROW Management use only)

LANDS RIGHT OF WAY APPLICATION- FOR PLAN SUBMITTAL REVIEW
(TECHNICAL INFORMATION)

This is the application for those parcels immediately adjacent to or containing NV Energy transmission high voltage facilities and corridors. Applicants shall submit this completed application and improvement plans (including all subsequent revisions) to the NV Energy Land Services, Attn: ROW Management Department, for review either by hand at our front desk in the lobby or by mail to 6226 W. Sahara Ave., MS #9, Las Vegas, NV 89146. Provide accurate and complete information as requested. A separate application should be prepared for each phase or unit of a project. **DO NOT LEAVE ANY ITEM BLANK.** Inaccurate or incomplete submittals will not be accepted and will cause delays in the review process.

NOTE: INCOMPLETE APPLICATIONS AND DRAWINGS WILL NOT BE RETURNED.

Attention:
NV Energy Land Services
Attn: ROW Management Department
6226 W. Sahara Ave., MS #9, Las Vegas, NV 89146 Date: .....

PROJECT TITLE: .....

PROJECT INFORMATION:

Assessor Parcel Numbers (APN #s): .....

Type of Development: .....

Specify Proposed Improvements: _____

Requested by:
(Please check the one that applies)
Owner/Developer: ☐ Governmental/Utility: ☐ Consultant: ☐ Engineering Firm: ☐

Landscaping Firm: ☐ Pool Contractor: ☐ Sign Company: ☐ Other: ☐

Type of Request:
(Please check the one that applies)
☐ Preliminary facility red line request only
(If checked, please skip to customer information)

☐ Improvement Plan Submittal
(USE Agreement Request)

☐ Revision(s)/Improvement Plan–Provide Project Number: .....
(If checked please provide NPC's Assigned Project Number/Improvement plans that were previously or are currently being reviewed)

☐ Other: .....

PLAN REQUIREMENTS:
All plans must illustrate NV Energy Easements, Pole Locations, Pole Numbers and Grading on the noted drawings listed below. Plan submittals without this information are incomplete and will not be accepted.
(Please indicate if your Plan Submittal Package includes the following):

☐ Grading plans ☐ Utility plans ☐ Profile and elevation plans ☐ Traffic/lighting plans
☐ Building plans ☐ Sign plans ☐ Landscaping plans ☐ Other (explain)

OBTAIN PRIOR APPROVAL:
All submittals are subject to technical review by NV Energy Transmission Engineering. Projects may be denied due to safety and liability issues. Approvals are contingent upon compliance with NESC and OSHA requirements as well as NV Energy's ability to access and maintain our facilities. Construction cannot begin without prior written approval or executed Transmission Use Agreement. In order to ensure the safety of the public, and to aid in the preparation of your designs, please refer to NV Energy's Transmission, Design, and Construction Standards (https://www.nvenergy.com/business/building-and-new-construction/plan-submittals-south/)

Project Number:.....
(ROW Management use only)

LANDS RIGHT OF WAY APPLICATION- FOR PLAN SUBMITTAL REVIEW
(TECHNICAL INFORMATION)
(DEVELOPER/PROPERTY OWNER INFORMATION)

This is the application for those parcels immediately adjacent to or containing NV Energy transmission high voltage facilities and corridors. Applicants shall submit this completed application along with the Technical Information Application. Do not leave any item blank. If additional space is needed, please provide information on a separate sheet. **TYPE OR PRINT LEGIBLY.**

Applicant or Engineering Firm Information:
The applicant will be considered the primary contact for the project. Correspondence will be sent only to the applicant (unless otherwise requested). If other engineering or design firms are involved in other aspects of the design please provide the same information on a separate sheet (attach separate information with this submittal).

Developer/Owner: _____
Company Name

_____
Address City/State Zip

Contact Person: _____
Name and Title

_____
Phone# Fax #

Email Address: _____

Developer/Owner Information:
The information is needed to prepare the Transmission Use Agreement.

Developer/Owner: _____
Company Name

_____
Address City/State Zip

Contact Person: _____
Name and Title

_____
Phone# Fax #

Email Address: _____

Applicant Signature Acknowledgment:
This information is the acknowledgment of this form and information that will be used to prepare the Transmission Use Agreement.

Applicant: _____ _____
(Signature) (Date)

_____ _____
(Print Name) (Title)

Transmission Use Agreement Notification

Name
1234 Street
City, ST Zip Code
Attn:

Date

Subject: **Project Name, Project #**

NV Energy's Right-of-Way (ROW) Management Department, has reviewed your drawings and based on your submittal, we find that our facilities are affected by this project. Based on our preliminary review, a "Transmission Use Agreement" will be required. Please complete and return the enclosed "Acknowledgement of Responsibility" (Appendix A or Appendix B) with the requested fees to the ROW Management, listed below.

Note: Current processing time for a "Transmission Use Agreement" is 14 to 16 weeks. Time starts once the completed application and the applicable fees are received.

Your project will not proceed until this requested information is received.

NPC is primarily concerned with the continued safe and reliable delivery of power through our facilities within our easement. In order to insure the safety of the public, the following conditions must be met:

- Compliance with all NESC and OSHA requirements.
- Materials and equipment cannot be stockpiled under lines.
- Pole bollards are required and shall be installed by the owner if parking is within 10' of any transmission structure. (Detail provided as required)
- A 40'x40' square must be maintained on one side of tangent structures and a 40'x40' square around a dead end structure to allow access for maintenance purposes.

This is also to inform you that it is necessary to obtain prior approval from NV Energy's ROW Management for future projects and any changes or revisions to this project. Certain improvements, for safety and liability reasons, are typically not allowed within transmission corridors, including but not limited to the following items:

- Parking or storage of vehicles exceeding 8' in height
- Covered parking
- Parking lights
- Metallic fences or block walls
- Trash enclosures
- Buildings or structures and free standing signs
- Swimming pools
- Pine and palm trees
- Elevation or grade changes

If you have any questions, please call me at XXX-XXXX.

Sincerely,

Your Name
ROW Management
Cc: Sharon McShea, File
I:\Projects\Transmission Policies\Conflict Check\4TransUANotif010406.doc

APPENDIX A
Acknowledgement of Responsibility

Project Title:_____ Project #_____

Fee Amount:_____

Non-refundable Advance:

1. Minimum project fee - 2 poles and/or a single span affecting property	$1,200.00
2. Additional poles and/or spans affecting property	$600.00 per pole/span

By signing and submitting fees, you are acknowledging that you are the owner of the above property or an authorized agent of the owner, able to enter into agreements on their behalf. Additionally you authorize NV Energy's, Right-of-Way (ROW) Management Department, to proceed with the preparation of a "Transmission Use Agreement" defining compliance with the terms and conditions to allow certain encroachments.

The undersigned agrees to provide complete designs, and requested information necessary for the preparation of the "Transmission Use Agreement". You also agree to complete the execution of the Agreement by signing and returning the "Transmission Use Agreement" for recording in a timely manner. Incomplete submittals are subject to rejection.

You must notify ROW Management if the person responsible for providing this information changes or of any changes in the project name. A new form will need to be completed if changes are made. Failure to notify ROW Management of any changes, in writing, may be cause for cancellation of your project.

Fees must accompany this completed form.
Project will not proceed until fees are received.

A private development project is not approved until a "Transmission Use Agreement" has been executed.

Prepared by:

_____ _____ _____
ROW Management Phone Date

_____ _____ _____
Signature of Owner/Agent Title Date

_____
Print or Type Name

Governmental Agency and Utility Notification

Name
1234 Street
City, ST Zip
Attn:

Date

Subject: **Project Name and Project #**
Transmission Line Name and Voltage

NV Energy has reviewed your drawings and based on your submittal, we find that our facilities do affect the property in question, and your proposed improvements have been determined to comply with NESC clearances. A copy of the site plan and clearance exhibit(s) is attached.

NV Energy is primarily concerned with the continued safe and reliable delivery of power through our facilities within our easement. In order to insure the safety of the public, the following conditions must be met:

- Compliance with all NESC and OSHA requirements.
- Materials and equipment cannot be stockpiled under lines.
- Pole bollards are required and shall be installed by the owner if parking is within 10' of any transmission structure. (Detail provided as required)
- A 40'x40' square must be maintained on one side of tangent structures and a 40'x40' square around a dead end structure to allow access for maintenance purposes.

This is also to inform you that it is necessary to obtain prior approval from NV Energy's ROW Management for future projects and any changes or revisions to this project. Certain improvements, for safety and liability reasons, are typically not allowed within transmission corridors, including but not limited to the following items:

- Parking or storage of vehicles exceeding 8' in height
- Covered parking
- Parking lights
- Metallic fences or block walls
- Trash enclosures
- Buildings or structures and free standing signs
- Swimming pools
- Pine and palm trees
- Elevation or grade changes

If you have any questions, please call xxx-xxxx.

Sincerely,

Your Name
ROW Management

encl
Cc: Sharon McShea File

Right of Way/Transmission Application Review Notice

Date: _____ To: _____

Project Name: _____

NVE Project #: _____ Review # _____1 _____2 _____3

_____ The application has been reviewed and it has been determined that NVE transmission facilities or easements are not impacted. A Transmission Use Agreement (TUA) and/or NVE Transmission signature on the civil plans is not required.

_____ The application has been reviewed and it has been determined that NVE transmission facilities are impacted. The plans are approved. A TUA is included with this review notice. The TUA must be executed and returned to NVE. The mylars will be signed, if applicable, when the executed TUA is returned. Construction cannot begin until the mylars have been signed.

_____ The application has been reviewed and revisions are required. The following comments need to be addressed in the next submittal. Additional comments may be included on the returned drawings. A copy of this transmittal letter and the redlines included with this transmittal need to be included in the next submittal.

_____

_____

_____ The application has been reviewed and it has been determined that NVE transmission facilities are impacted. Poles and/or other facilities may need to be relocated or adjusted. It may be more efficient to revise the project plans to remove the conflict. Please see the following comments. Additional comments may be included on the returned drawings. NVE can meet in-person with developer and/or engineer. If plans cannot be revised, then a contract will be a required. Notify NVE of preferred solution within six months from the date of this review.

_____

_____

_____ The application submittal package for this project is **not complete**. Developer must re-submit with the requested information below before the detailed review of the project can begin. A copy of this transmittal letter needs to be included in the next submittal.

_____ Application	_____ Additional Plans	_____ Easements
_____ Grading	_____ Pole Locations	_____ SVZ Issue
_____ Landscaping	_____ Grounding Details	_____ Other _____

Please provide the information requested above and resubmit to **Land Services, Attn: ROW Management M/S 9.** Please note incomplete drawings or design packages will not be returned.

This application will expire in 6 months from the date on this transmittal unless a new submittal is made. Once the application expires, it will be cancelled and the project will need to be resubmitted as a new project.

If the project changes from anything that was reviewed in this submittal, then the new plans will need to be submitted for further review.

ROW Management
e-mail and Phone

ROW Management Submittal Plan Process Flowchart

Attachment #12

Property Services receives plans with ROW Management Application for Plan Submittal Review and fees

Property Services assigns project number in LMS & places in Trans pick up box

Trans/Civil. Eng. Picks up plans from Property Services

Application & submittal package complete

Sends "Incomplete Application Plan Submittal email" to Customer

YES

Plans have trans facilities near/on property

YES

Trans/Civil. Eng. to complete technical review and updates LMS

Property Services closes project and updates project info in LMS

Property Services prepares and sends "No Conflict Letter" to Customer

Trans/Civil sends out Cancelation/not Released for Electrical Services Letter to Customer/Property Services

Customer project on hold not released for electrical service

NO

Receives changes/ info within 60 days

YES

Customer changes/adds to designs within 60 days to Trans/Civil

Trans/Civil Eng. emails Customer for additional Info/design changes

NO

Customer meets Trans/Civil Eng. Requirements

YES

Customer project remains in conflict with NVE facilities

NO

YES

OR

Relocation Required

YES

Trans/Civil Eng. acquires LMS approval sends TUA or GAL request form to Property Services

Trans/Civil Eng. Prepares project for Relocation (follow Relocation Process)

(Property Services follows Department USE Agreement Process) Property Services sends TUA or GAL to Customer and updates LMS

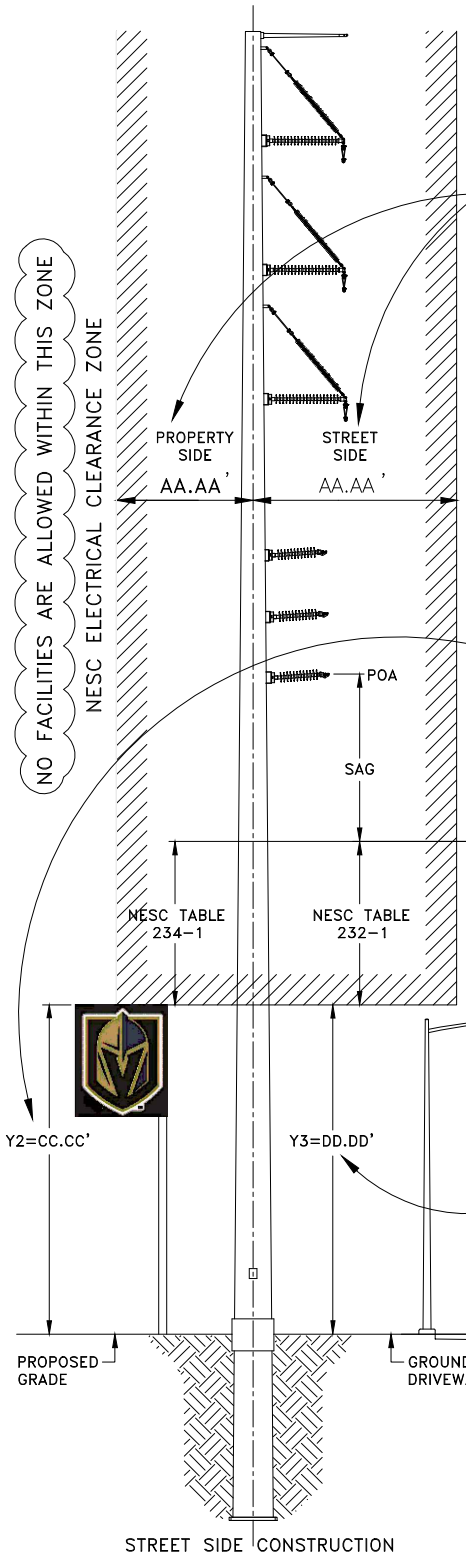
Customer signs TUA and send to Property Services

Property Services receives signed TUA, records and sends copy to Customer

Property Services closes project and updates project info in LMS

Legend:
Property Services – Blue
Trans/Civil Engineering – Green
Customer – Black
Documents - Red

Definitions:
TUA – Transmission Use Agreement
GAL – Government Authorization Letter
LMS – Lands Management System



STREET SIDE CONSTRUCTION
SCALE: N.T.S.

HORIZONTAL DIMENSION (XXXkV XXX–LINE NAME–XXX)

NESC RULE 234–A2 CONDUCTOR DISPLACED FROM REST TOWARD INSTALLATION BY A 6psf WIND AT FINAL SAG AT 60°F

REQUIREMENT FOR STREET XXX kV = AA.AA'
REQUIREMENT FOR PROPERTY XXX kV = AA.AA'

VERTICAL DIMENSION (XXXkV XXX–LINE NAME–XXX)

Y1= NESC CLEARANCE OF CONDUCTORS TO TRAFFIC SIGNALS OR LIGHTING SUPPORTS

POINT OF ATTACHMENT (POA)(STR # XXXXXX)	FF.FF'
SAG @ MAX. OPERATING TEMP. (XXX°)	– GG.GG'
CLEARANCE PER NESC 234–1(RULE 234B.b)	– XX.XX'
MAXIMUM ALLOWABLE HEIGHT OF TRAFFIC SIGNAL OR LIGHTING SUPPORT	BB.BB'

Y2= NESC CLEARANCE OF CONDUCTORS TO APPROVED STRUCTURES

POINT OF ATTACHMENT (POA)(STR # XXXXXX)	FF.FF'
SAG @ MAX. OPERATING TEMP. (XXX°)	– GG.GG'
CLEARANCE PER NESC 234–1(2.b.2)	– XX.XX'
MAXIMUM ALLOWABLE HEIGHT OF APPROVED STRUCTURES	CC.CC'

Y3= NESC CLEARANCE TO ROADS, STREETS, DRIVEWAYS, PARKING LOTS AND OTHER AREAS SUBJECT TO VEHICLE TRAFFIC

REQUIRED VERTICAL CLEARANCE OF CONDUCTORS ABOVE ROADWAY SURFACES, SEE NESC RULES 232–B1 232–C1a, 232–D4 AND TABLE 232–1

REQUIREMENT FOR XXX kV	=	DD.DD'
POINT OF ATTACHMENT (POA)(STR # XXXXXX)		FF.FF'
SAG @ MAX. OPERATING TEMP. (XXX°)		– GG.GG'
PROPOSED GRADE CHANGE BY DEVELOPER (FILL)		– XX.XX'
		EE.EE'

SINCE EE.EE' > DD.DD', MIN REQUIREMENT IS MET.

NOTES:

REMINDER

1. OSHA SAFE WORKING CLEARANCES TYPICALLY EXCEED NESC CLEARANCE REQUIREMENTS. DEVELOPER IS RESPONSIBLE TO MEET ALL OSHA REQUIREMENTS.
2. HORIZONTAL CLEARANCES SHOWN MAY BE LESS THAN EXISTING EASEMENTS. PLEASE REFER TO RECORDED DOCUMENTS FOR EASEMENT DIMENSIONS.
3. ELEVATION VIEW MAY NOT REPRESENT ACTUAL POLE CONFIGURATION.

DRAWING INFO.		
DRAWN	XX/XX/XX	XX
DESIGNED	XX/XX/XX	XX
CHECKED	XX/XX/XX	XX
APPROVED	XX/XX/XX	XX
	DATE	BY
REV. 0		

NVEnergy
TRANSMISSION ENGINEERING

WMS PROJECT TITLE

MINIMUM CLEARANCE CALCULATION EXHIBIT 'C–1'

PROJ. ID.GXXXXXXXXX	DWG. NO.: N/A	SHEET: 1 OF 1

TEMPLATE REV. 4 06/25/09

PLOT DATE/TIME: 8/29/2018 12:38 PM PLOTTED BY: IGLESIAS, MARIA

G:\CONFLICT\TECHNICAL REVIEW DOCS\EXHIBIT C-1 (JOB AID).DWG

NVEnergy

THIS GATE PROVIDES 24 HOUR ACCESS TO NV ENERGY