

Board of Adjustment Staff Report

Meeting Date: February 03, 2022

SPECIAL USE PERMIT CASE NUMBER: WSUP21-0034 (Washoe County Field Creek Water

Truck Effluent Fill Station)

BRIEF SUMMARY OF REQUEST: Construction and operation of a water truck fill

station

STAFF PLANNER: Roger Pelham, MPA, Senior Planner

> Phone Number: 775.328.3622 Email: rpelham@washoecounty.gov

CASE DESCRIPTION

Special Use Permit Case Number WSUP21-0034 (Washoe County Field Creek Water Truck Effluent Fill Station) - For hearing, discussion and possible action to approve a special use permit to allow the construction and operation of a water truck fill station (Utility Services Use Type) and a related request to reduce the landscaping required for a Civic use type by Article 412, Landscaping, of the Washoe County Development Code.

Applicant: Washoe County CSD, Utilities

Services Division, attn: Dylan Menes

Property Owner: Washoe County CSD, Utilities

Services Division, attn: Dwavne Smith

Location: On the north side of Arrowcreek

Parkway, approximately 600 feet west

of its intersection with Tremolite Drive

APN: 142-020-06

Parcel Size: ± 24.488 Acres

Master Plan: Suburban Residential (SR)

Public and Semi-Public Facilities Regulatory Zone:

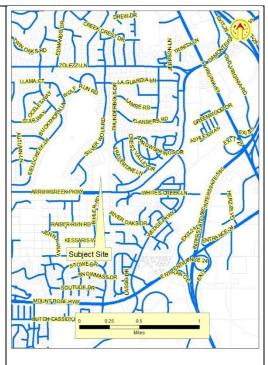
(PSP)

Area Plan: Southwest Truckee Meadows

Development Authorized in Article 810, Special Use

Permits Code:

District: 2 – Commissioner Lucey



Vic<u>inity Map</u>

STAFF RECOMMENDATION

APPROVE APPROVE WITH CONDITIONS **DENY**

POSSIBLE MOTION

I move that, after giving reasoned consideration to the information contained in the staff report and information received during the public hearing, the Washoe County Board of Adjustment approve with conditions Special Use Permit Case Number WSUP21-0034 for Washoe County Community Services Department, Utilities Services Division, with the conditions included as Exhibit A to this matter, having made all five findings in accordance with Washoe County Code Section 110.810.30

(Motion with Findings on Page 10)

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Special Use Permit

The purpose of a special use permit is to allow a method of review to identify any potential harmful impacts on adjacent properties or surrounding areas for uses that may be appropriate within a regulatory zone; and to provide for a procedure whereby such uses might be permitted by further restricting or conditioning them so as to mitigate or eliminate possible adverse impacts. If the Board of Adjustment grants an approval of the special use permit, that approval is subject to conditions of approval. Conditions of approval are requirements that need to be completed during different stages of the proposed project. Those stages are typically:

- Prior to permit issuance (i.e. a grading permit, a building permit, etc.)
- Prior to obtaining a final inspection and/or a certificate of occupancy on a structure
- Prior to the issuance of a business license or other permits/licenses
- Some conditions of approval are referred to as "operational conditions." These
 conditions must be continually complied with for the life of the business or project.

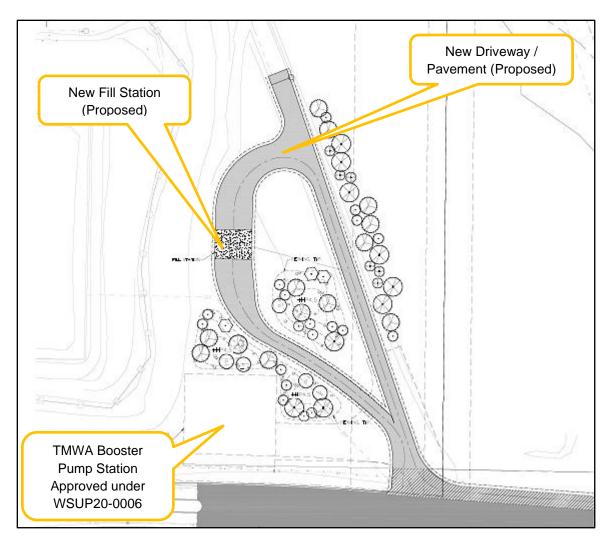
The conditions of approval for Special Use Permit Case Number WSUP21-0034 are attached to this staff report and will be included with the action order.

The subject property is designated as Public and Semi Public Facilities (PSP). The proposed use of a water truck effluent fill station which is classified as Utility Services Use Type, which is permissible in PSP with approval of a special use permit per WCC Table 110.302.05.2. Therefore, the applicant is seeking approval of this SUP from the Board of Adjustment.

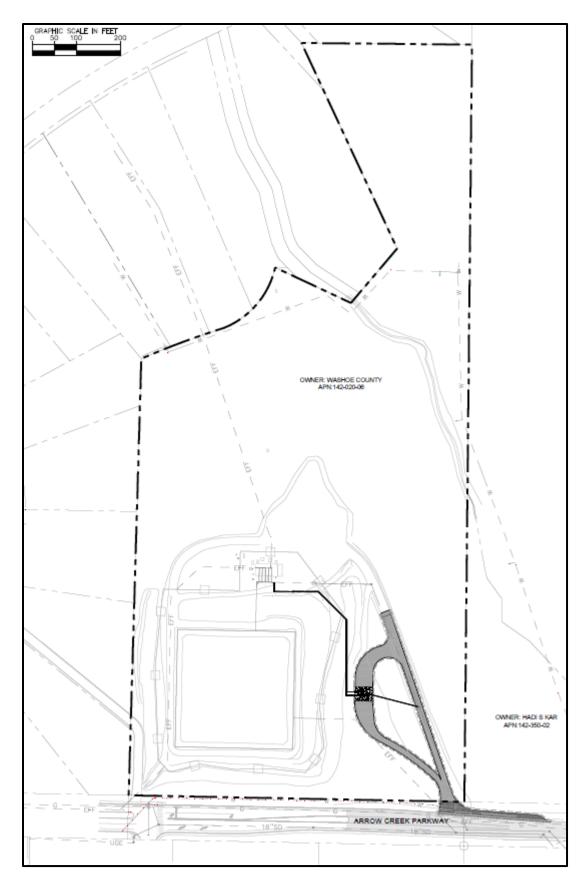
Additionally, Article 810, Special Use Permits, allows the Board of Adjustment to vary development code standards in conjunction with the approval process per WCC 110.810.20(e). The Board of Adjustment will be ruling on the request(s) to vary standards below:

Variance(s) Requested	Relevant Code
Elimination of required buffering with residential uses	110.412.40(c)

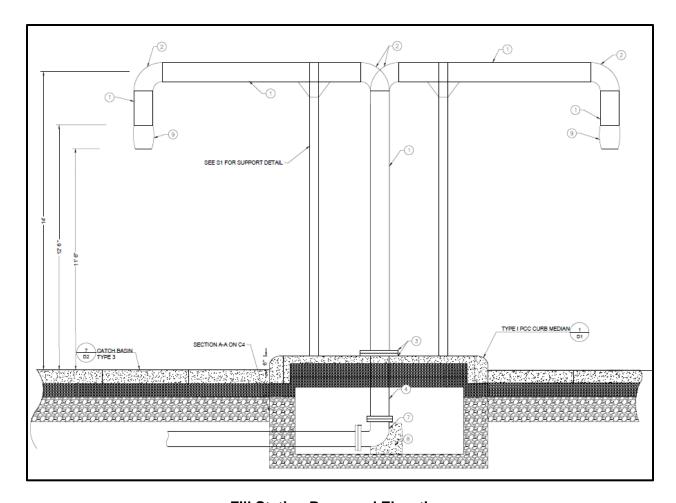
Staff Report Date: 1/13/2022



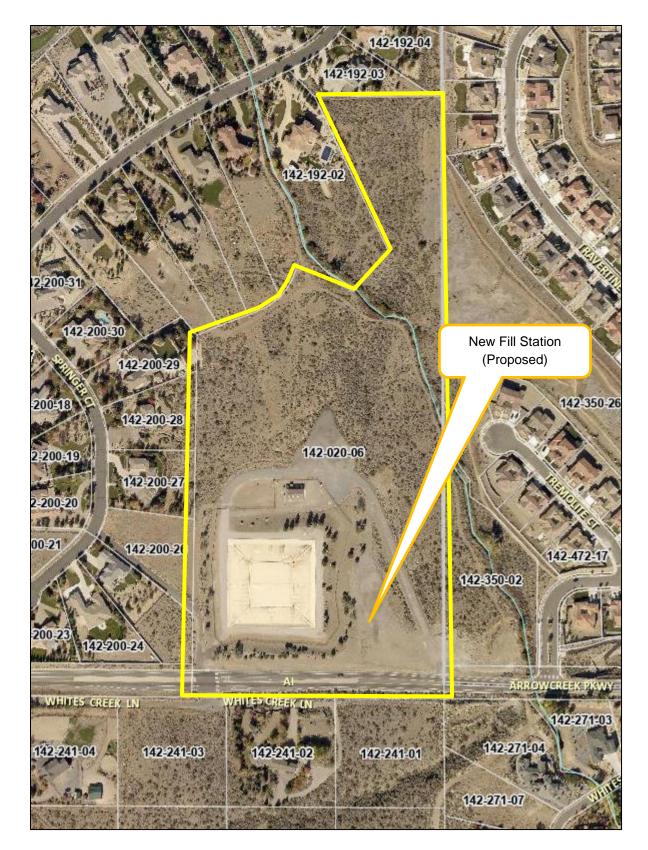
Detail Site Plan



Overall Site Plan



Fill Station Proposed Elevation



Overhead Photo

Project Evaluation

The subject site consists of a large parcel of land with an existing effluent reservoir and there will be a booster pump station construction in the very near future (building permits have already been issued). Both of these are <u>utility services use types</u>, per section 110.304.20(j)(1) of the Washoe County Code. The applicant is requesting approval of a third utility services use type on the subject site. That is a water truck fill station, which allows water trucks to use treated effluent water for dust control on construction sites and other similar uses.

The improvements required for the facility include overhead pipes, as shown on page 5 of this report as well as paved driveway areas. There are residential uses on all sides of the subject parcel. This is a relatively low-intensity use as the facility will be utilized primarily during daylight hours and primarily during the summer months. For this reason, few substantial impacts are anticipated. However, the standard Code requirements for the buffering of a civic use type, such as this, with the surrounding residential uses includes the construction of a solid wall or fence and a landscape buffer around the entire length of the common property lines. Standard Code requirements would result in a minimum of approximately 1.7 acres (±74,745 square feet) of landscaping and approximately 222 trees. The required setback area of both the eastern and western property lines (15 feet in width) as well as the rear (northern) setback area (20 feet in width) are required to be landscaped and one tree is required every 20 linear feet. The applicant has requested that these standards be waived by the Board. The applicant is proposing approximately 17,250 square feet of landscape area and installation of 55 trees. Staff is generally in favor of reducing the overall required landscaping as the facility itself is proposed to take up a relatively small part of the overall site. Staff recommendation includes, and conditions of approval have been included with the recommendation that the plans as submitted are generally acceptable with the addition of 22 evergreen trees to the east of the proposed facility. The 22 trees proposed represent 10% of the trees otherwise required. The eastern property line, is in the closest proximity to adjacent residences.

Other possible impacts include unauthorized access to the remaining undeveloped part of the subject site, by motor vehicles. For this reason, staff has included recommended conditions of approval to require boulders, bollards, or other barriers acceptable to the Director of Planning and Building, to be placed around the perimeter of the proposed driveway area to inhibit vehicular access to the remainder of the site. Likewise, conditions of approval to require a gate at the north end of the driveway have been included.

With the conditions of approval, as included with this report, staff is in support of approval.

Area Plan Evaluation

The subject parcel is located within the Southwest Truckee Meadows Area Plan. There are no particularly pertinent policies from the Area Plan.

Reviewing Agencies

The following agencies/individuals received a copy of the project application for review and evaluation.

Agency	Sent to Review	Responded	Provided Conditions	Contact
Nevada Div. of Wildlife				
Washoe County Building & Safety	\boxtimes			
Washoe County Parks & Open Spaces	\boxtimes			

Staff Report Date: 1/13/2022

Washoe County Water Rights	\boxtimes			
Washoe County Engineering	\boxtimes	\boxtimes		Timber Weiss tweiss@washoecounty.gov
Washoe County Sherriff	\boxtimes			
WCHD – Air Quality	\boxtimes	\boxtimes		
WCHD – Environment Health	\boxtimes			
WCHD- EMS	\boxtimes			
Truckee Meadows Fire Protection District	\boxtimes	\boxtimes	\boxtimes	Brittany Lemon blemon@tmfpd.us
RTC Washoe	\boxtimes			
Washoe Storey Conservation District	\boxtimes	\boxtimes	\boxtimes	
Washoe Tribe of Nevada	\boxtimes			

All conditions required by the contacted agencies can be found in Exhibit A, Conditions of Approval.

Staff Comment on Required Findings

WCC Section 110.810.30, Article 810, *Special Use Permits*, requires that all of the following findings be made to the satisfaction of the Washoe County Board of Adjustment before granting approval of the request. Staff has completed an analysis of the special use permit application and has determined that the proposal is in compliance with the required findings as follows.

- 1. <u>Consistency.</u> That the proposed use is consistent with the action programs, policies, standards and maps of the Master Plan and the Southwest Truckee Meadows Area Plan.
 - <u>Staff Comment:</u> The proposed use is consistent with the action programs, policies, standards and maps of the Master Plan and there are no particularly relevant Southwest Truckee Meadows Area Plan modifiers.
- 2. <u>Improvements.</u> That adequate utilities, roadway improvements, sanitation, water supply, drainage, and other necessary facilities have been provided, the proposed improvements are properly related to existing and proposed roadways, and an adequate public facilities determination has been made in accordance with Division Seven.
 - <u>Staff Comment:</u> Subject to compliance with the recommended conditions of approval, adequate utilities, roadway improvements, sanitation, water supply, drainage, and other necessary facilities have been provided, the proposed improvements are properly related to existing and proposed roadways, and an adequate public facilities determination can be made in accordance with Division Seven
- 3. <u>Site Suitability.</u> That the site is physically suitable for a water truck fill station (Utility Services Use Type), and for the intensity of such a development.
 - <u>Staff Comment</u>: There are two Utility Services Use Type installations on the subject site at this time, the site is suitable for the addition of a water truck fill station.
- 4. <u>Issuance Not Detrimental.</u> That issuance of the permit will not be significantly detrimental to the public health, safety or welfare; injurious to the property or improvements of adjacent properties; or detrimental to the character of the surrounding area.
 - <u>Staff Comment</u>: Subject to compliance with the recommended conditions of approval, issuance of the permit will not be significantly detrimental to the public health, safety or welfare; injurious to the property or improvements of adjacent properties; or detrimental to the character of the surrounding area.

Staff Report Date: 1/13/2022

<u>Staff Comment</u>: There is no military installation within the required noticing distance surrounding this project, therefore there can be no detrimental effect.

Staff Report Date: 1/13/2022

Recommendation

After a thorough analysis and review, Special Use Permit Case Number WSUP21-0034 is being recommended for approval with conditions. Staff offers the following motion for the Board's consideration.

Motion

I move that, after giving reasoned consideration to the information contained in the staff report and information received during the public hearing, the Washoe County Board of Adjustment approve with conditions Special Use Permit Case Number WSUP21-0034 for Washoe County Community Services Department, Utilities Services Division, with the conditions included as Exhibit A to this matter, having made all five findings in accordance with Washoe County Code Section 110.810.30:

- Consistency. That the proposed use is consistent with the action programs, policies, standards and maps of the Master Plan and the Southwest Truckee Meadows Area Plan;
- Improvements. That adequate utilities, roadway improvements, sanitation, water supply, drainage, and other necessary facilities have been provided, the proposed improvements are properly related to existing and proposed roadways, and an adequate public facilities determination has been made in accordance with Division Seven;
- 3. <u>Site Suitability.</u> That the site is physically suitable for a water truck fill station (Utility Services Use Type), and for the intensity of such a development;
- 4. <u>Issuance Not Detrimental.</u> That issuance of the permit will not be significantly detrimental to the public health, safety or welfare; injurious to the property or improvements of adjacent properties; or detrimental to the character of the surrounding area;
- 5. <u>Effect on a Military Installation.</u> Issuance of the permit will not have a detrimental effect on the location, purpose or mission of the military installation.

Appeal Process

Board of Adjustment action will be effective 10 calendar days after the written decision is filed with the Secretary to the Board of Adjustment and mailed to the applicant, unless the action is appealed to the Washoe County Board of County Commissioners, in which case the outcome of the appeal shall be determined by the Washoe County Board of County Commissioners. Any appeal must be filed in writing with the Planning and Building Division within 10 calendar days from the date the written decision is filed with the Secretary to the Board of Adjustment and mailed to the applicant.

Applicant: Washoe County CSD, Utilities Services Division., Dylan Menes,

Email: dmenes@washoecounty.gov

Property Owner: Washoe County CSD, Utilities Services Division., Dwayne Smith,

Email: desmith@washoecounty.gov

Consultant: Kimley Horn and Associates., Attn: Christian Heinbaugh

7900 Rancharrah Parkway, Suite 100

Reno. NV 89511



Conditions of Approval

Special Use Permit Case Number WSUP21-0034

The project approved under Special Use Permit Case Number WSUP21-0034 shall be carried out in accordance with the conditions of approval granted by the Board of Adjustment on February 3, 2022. Conditions of approval are requirements placed on a permit or development by each reviewing agency. These conditions of approval may require submittal of documents, applications, fees, inspections, amendments to plans, and more. These conditions do not relieve the applicant of the obligation to obtain any other approvals and licenses from relevant authorities required under any other act.

<u>Unless otherwise specified</u>, all conditions related to the approval of this special use permit shall be met or financial assurance must be provided to satisfy the conditions of approval prior to issuance of a grading or building permit. The agency responsible for determining compliance with a specific condition shall determine whether the condition must be fully completed or whether the applicant shall be offered the option of providing financial assurance. All agreements, easements, or other documentation required by these conditions shall have a copy filed with the County Engineer and the Planning and Building Division.

Compliance with the conditions of approval related to this special use permit is the responsibility of the applicant, his/her successor in interest, and all owners, assignees, and occupants of the property and their successors in interest. Failure to comply with any of the conditions imposed in the approval of the special use permit may result in the institution of revocation procedures.

Washoe County reserves the right to review and revise the conditions of approval related to this Special Use Permit should it be determined that a subsequent license or permit issued by Washoe County violates the intent of this approval.

For the purpose of conditions imposed by Washoe County, "may" is permissive and "shall" or "must" is mandatory.

Conditions of approval are usually complied with at different stages of the proposed project. Those stages are typically:

- Prior to permit issuance (i.e., grading permits, building permits, etc.).
- Prior to obtaining a final inspection and/or a certificate of occupancy.
- Prior to the issuance of a business license or other permits/licenses.
- Some "conditions of approval" are referred to as "operational conditions." These conditions must be continually complied with for the life of the project or business.

FOLLOWING ARE CONDITIONS OF APPROVAL REQUIRED BY THE REVIEWING AGENCIES. EACH CONDITION MUST BE MET TO THE SATISFACTION OF THE ISSUING AGENCY.

Washoe County Planning and Building Division

1. The following conditions are requirements of Planning and Building, which shall be responsible for determining compliance with these conditions.

Contact Name – Roger Pelham, Senior Planner, 775.328.3622, rpelham@washoecounty.gov

- a. The applicant shall attach a copy of the action order approving this project to all permits and applications (including building permits) applied for as part of this special use permit.
- b. The applicant shall demonstrate substantial conformance to the plans approved as part of this special use permit. The Planning and Building Division shall determine compliance with this condition.
- c. The applicant shall submit construction plans, with all information necessary for comprehensive review by Washoe County, and initial building permits shall be issued within two years from the date of approval by Washoe County. The applicant shall complete construction within the time specified by the building permits. Compliance with this condition shall be determined by the Planning and Building Division.
- d. A note shall be placed on all construction drawings and grading plans stating:

NOTE

Should any cairn or grave of a Native American be discovered during site development, work shall temporarily be halted at the specific site and the Sheriff's Office as well as the State Historic Preservation Office of the Department of Conservation and Natural Resources shall be immediately notified per NRS 383.170.

- d. In addition to the landscaping shown on the application materials the final plans shall include 22 additional evergreen trees to be located to the east of the water truck fill station.
- e. The plans shall include boulders (36" minimum diameter), bollards, or other barriers acceptable to the Director of Planning and Building, to be placed around the perimeter of the proposed driveway area to inhibit vehicular access to the remainder of the site. The distance between barriers shall be 48 inches or less.
- f. A gate shall be placed at the northern end of the proposed asphalt driveway. The gate shall remain locked such that vehicular access is granted only to authorized individuals.
- g. All disturbed areas shall be revegetated with a seed mix of native flora. Temporary irrigation shall be provided to all revegetated areas for a time period of not less than three years or until the disturbed areas have 70% vegetative coverage, whichever is greater.
- h. The following **Operational Conditions** shall be required for the life of the business:
 - i. This special use permit shall remain in effect until or unless it is revoked or is inactive for one year.
 - ii. Failure to comply with any of the conditions of approval shall render this approval out of conformance and subject to revocation.
 - iii. The applicant and any successors shall direct any potential purchaser/operator of the site and/or the administrative permit to meet with Planning and Building to

review conditions of approval prior to the final sale of the site and/or the administrative permit. Any subsequent purchaser/operator of the site and/or the administrative permit shall notify Planning and Building of the name, address, telephone number, and contact person of the new purchaser/operator within 30 days of the final sale.

iv. This special use permit shall remain in effect as long as the water truck fill station remains in operation.

Truckee Meadows Fire Protection District

2. The following condition is a requirement of the Truckee Meadows Fire Protection District, which shall be responsible for determining compliance with this condition.

Contact Name - Brittany Lemon, 775.326.6079, blemon@tmfpd.us

a. This project shall meet and comply with all requirements of currently adopted TMFPD fire codes, ordinances, and standards at the time of construction to include infrastructure for fire apparatus access roads and water supply. https://tmfpd.us/fire-code/

Washoe County Engineering

3. The following condition is a requirement of the Washoe County Engineering Division, which shall be responsible for determining compliance with this condition.

Contact Name - Rob Wimer, P.E. (775) 328-2059, rwimer@washoecounty.gov

- a. A complete set of construction improvement drawings, including an on-site grading plan, shall be submitted when applying for a building/grading permit. Grading shall comply with best management practices (BMP's) and shall include detailed plans for grading, site drainage, erosion control (including BMP locations and installation details), slope stabilization, and mosquito abatement. Placement or removal of any excavated materials shall be indicated on the grading plan. Silts shall be controlled on-site and not allowed onto adjacent property.
- b. Cross-sections indicating cuts and fills shall be submitted when applying for a grading permit. Estimated total volumes shall be indicated.
- c. All disturbed areas left undeveloped for more than 30 days shall be treated with a dust palliative. Disturbed areas left undeveloped for more than 45 days shall be revegetated. Methods and seed mix must be approved by the County Engineer.
- d. All roadway improvements necessary (including but not limited to, curb, gutter, sidewalk, signing and striping, driveway access, and street lighting) to serve the project shall be designed and constructed to County standards and specifications to the satisfaction of the County Engineer.
- e. An approved occupancy permit shall be obtained from the City of Reno, for access to, from, or under roads and highways maintained by the City of Reno and a copy of said permit sent to the Engineering Division.
- f. The minimum pavement structural section shall be five inches (5") of asphalt over six inches (6") of granular base for roadways with a right-of-way of one hundred feet (100') in width.
- g. The applicant shall submit a detailed geotechnical analysis and report for pavement design recommendations to the County Engineer for review and approval. The report shall be based on the estimated traffic loadings for a 20-year design life and shall include assumptions concerning the distribution of trucks and buses, to include project

construction truck traffic. The resultant pavement thickness in the geotechnical analysis must be used if the report indicates a structural section that is stronger than minimum if required.

h. All regulatory traffic signs, pavement striping and markings shall meet County standards and the Manual on Uniform Traffic Control Devices.

*** End of Conditions ***

Exhibit B - WSUP21-0034

From: Rosa, Genine
To: Pelham, Roger

Subject: December Agency Review Memo II - Item #2 Revision

Date: Wednesday, December 22, 2021 9:52:57 AM

Special Use Permit Case Number WSUP21-0034 (Washoe County Field Creek Water Truck Effluent Fill Station)

Disturbance proposed is <1 acre and therefore no Dust Control Permit will be required, should the disturbance become 1 acre or greater a dust control permit would be required. Any disturbance still subject to dust regulations in <u>040.030</u>. Visit <u>www.OurCleanAir.com</u> for more information.

P.S. – Please be sure to click the link below and sign up to receive air quality news, updates, public notices and more via e-mail.

Genine Rosa

Environmental Engineer II | Air Quality Management Division | Washoe County Health District grosa@washoecounty.gov | O: (775) 784-7204 | 1001 E. Ninth St., Bldg. B, Reno, NV 89512

*My schedule is 4 x 10's M-Th 7-5:30 off on Fridays.

www.OurCleanAir.com | Subscribe to get Air Quality Updates!

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Please take our customer satisfaction survey by clicking here

From: <u>Kirschenman, Sophia</u>
To: Pelham, Roger

 Subject:
 Parks Comments Re: WSUP21-0034

 Date:
 Tuesday, December 28, 2021 7:48:47 AM

Attachments: Outlook-hascvam0.pna

Outlook-blanbv3j.pna Outlook-k3psx2cn.pna Outlook-pabbuaa0.pna Outlook-ea1rmw3a.pna

Hi Roger,

I've reviewed WSUP21-0034 (Washoe County Field Creek Water Truck Effluent Fill Station) on behalf of Washoe County Regional Parks and Open Space and have no comments or conditions.

Thank you,



Sophia Kirschenman

Park Planner | Community Services Department 775.328.3623 | 1001 E. 9th Street, Reno, NV 89512



Exhibit B – WSUP21-0034



WASHOE COUNTY 1001 EAST 9"" SI REEL RENO, NEVADA 89512

PHONE (775) 328-3600 FAX (775) 328.3699

Date: December 22, 2021

To: Roger Pelham, Planner

From: Robert Wimer, P.E., Licensed Engineer

Special Use Permit for Washoe County Field Creek Water Truck Effluent Fill Station WSUP21-

0034

APN 142-020-06

GENERAL PROJECT DISCUSSION

Washoe County Engineering staff has reviewed the above referenced application. The Special Use Permit is to add to the land use to provide a permanent truck fill station to allow for construction trucks use of reclaim water from this site and is located on approximately 0.99 acres in on the north side of Arrowcreek Parkway, west of Tremolite Drive. The Engineering and Capital Projects Division recommends approval with the following comments and conditions of approval which supplement applicable County Code and are based upon our review of the site and the application prepared by Kimley-Horn and Associates. The County Engineer shall determine compliance with the following conditions of approval.

For questions related to sections below, please see the contact name provided.

GENERAL CONDITIONS

Contact Information: Rob Wimer, P.E. (775) 328-2059

- 1. A complete set of construction improvement drawings, including an on-site grading plan, shall be submitted when applying for a building/grading permit. Grading shall comply with best management practices (BMP's) and shall include detailed plans for grading, site drainage, erosion control (including BMP locations and installation details), slope stabilization, and mosquito abatement. Placement or removal of any excavated materials shall be indicated on the grading plan. Silts shall be controlled on-site and not allowed onto adjacent property.
- 2. Cross-sections indicating cuts and fills shall be submitted when applying for a grading permit. Estimated total volumes shall be indicated.
- 3. All disturbed areas left undeveloped for more than 30 days shall be treated with a dust palliative. Disturbed areas left undeveloped for more than 45 days shall be revegetated. Methods and seed mix must be approved by the County Engineer.

DRAINAGE (COUNTY CODE 110.416, 110.420, and 110.421) Contact Information: Robert Wimer, P.E. (775) 328-2059

1. No drainage related comments.







WWW.WASHDEDOUNTY.US

Exhibit B - WSUP21-0034

Subject: Washoe County Field Creek Water Truck Effluent Station WSUP21-0034

Date: December 22, 2021

Page:

TRAFFIC AND ROADWAY (COUNTY CODE 110.436)

Contact Information: Mitchell Fink, P.E. (775) 328-2050

- All roadway improvements necessary (including but not limited to, curb, gutter, sidewalk, signing
 and striping, driveway access, and street lighting) to serve the project shall be designed and
 constructed to County standards and specifications to the satisfaction of the County Engineer.
- An approved occupancy permit shall be obtained from the City of Reno, for access to, from, or under roads and highways maintained by the City of Reno and a copy of said permit sent to the Engineering Division.
- The minimum pavement structural section shall be five inches (5") of asphalt over six inches (6")
 of granular base for roadways with a right-of-way of one hundred feet (100") in width.
- 4. The applicant shall submit a detailed geotechnical analysis and report for pavement design recommendations to the County Engineer for review and approval. The report shall be based on the estimated traffic loadings for a 20-year design life and shall include assumptions concerning the distribution of trucks and buses, to include project construction truck traffic. The resultant pavement thickness in the geotechnical analysis must be used if the report indicates a structural section that is stronger than minimum if required.
- All regulatory traffic signs, pavement <u>striping</u> and markings shall meet County standards and the Manual on Uniform Traffic Control Devices.

UTILITIES (County Code 422 & Sewer Ordinance)

Contact Information: Tim Simpson, P.E. (775) 954-4648

1. No utilities related comments.

 From:
 Lemon. Brittany

 To:
 Pelham. Roger

 Co:
 Way. Dale

Subject: WSUP21-0034 (Washoe County Field Creek Water Truck Effluent Fill Station) Conditions of Approval

Date: Monday, December 20, 2021 3:08:58 PM

Attachments: image001.pnq

Hi Roger,

"This project shall meet and comply with all requirements of currently adopted TMFPD fire codes, ordinances, and standards at the time of construction to include infrastructure for fire apparatus access roads and water supply."

https://tmfpd.us/fire-code/.

Thank you!

Brittany Lemon

Fire Captain - Fire Prevention | Truckee Meadows Fire & Rescue blemon@tmfpd.us | Office: 775.326.6079 | Cell: 775.379.0584 3663 Barron Way, Reno, NV 89511



"Committed to excellence, service, and the protection of life and property in our community"

Exhibit B - WSUP21-0034



Washoe-Storey Conservation District

Bret Tyler Chairmen Jim Shaffer Treasurer Cathy Canfield Storey app Jean Herman Washoe app

1365 Corpotate Blvd. RenoNV 89502 775 857-8500 ext. 131

December 18, 2021

Washoe County Community Services Department

C/O Roger Pelham, Senior Planner

1001 E Ninth Street, Bldg A

Reno, NV 89512

R: WSUP21-0034 Washoe County Field Creek Water Truck

Dear Roger,

In reviewing the construction of a water tank fill station, the Conservation District has the following comments.

To prevent the spread of noxious weeds concerning grading and exportation of material, the applicant shall collaborate with the Conservation District to develop an onsite noxious weeds management plan to ensure weed seeds do not impact other areas, utilizing certified weed free material.

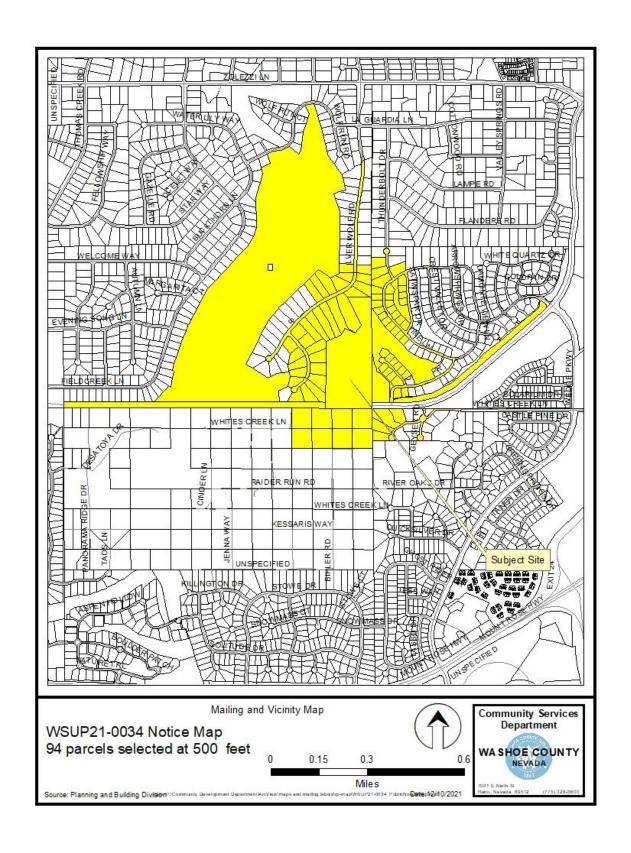
We will require a vegetation plan from a qualified professional that includes a seed mix based on the soil, contingency water plan, fertilizer plan, erosion control structures and a monitoring plan with updates provided to the Conservation District after the growing season (October 31) every year for a three-year period.

Thank you for providing us the opportunity to review the project that may have impacts on our natural resources and any questions call us at (775) 750-8272.

Sincerely,

J Shaffer

Exhibit C - WSUP21-0034



Community Services Department

Planning and Building

SPECIAL USE PERMIT

(see page 7)

SPECIAL USE PERMIT FOR GRADING
(see page 9)

SPECIAL USE PERMIT FOR STABLES (see page 12)

APPLICATION



Community Services Department Planning and Building 1001 E. Ninth St., Bldg. A Reno, NV 89512-2845

Telephone: 775.328.6100

Washoe County Development Application

Your entire application is a public record. If you have a concern about releasing personal information, please contact Planning and Building staff at 775.328.6100.

Project Information	s	Staff Assigned Case No.:	
Project Name:			
Project Description:			
Project Address:			
Project Area (acres or square fe	et):		
Project Location (with point of re	eference to major cross	streets AND area locator):	
Assessor's Parcel No.(s):	Parcel Acreage:	Assessor's Parcel No.(s):	Parcel Acreage:
Indicate any previous Washo Case No.(s).	oe County approval	s associated with this applica	tion:
Applicant Inf	ormation (attach	additional sheets if necess	sary)
Property Owner:		Professional Consultant:	
Name:		Name:	
Address:		Address:	
	Zip:		Zip:
Phone:	Fax:	Phone:	Fax:
Email:		Email:	
Cell:	Other:	Cell:	Other:
Contact Person:		Contact Person:	
Applicant/Developer:		Other Persons to be Contac	ted:
Name:		Name:	
Address:		Address:	
	Zip:		Zip:
Phone:	Fax:	Phone:	Fax:
Email:		Email:	
Cell:	Other:	Cell:	Other:
Contact Person:		Contact Person:	
	For Office	Use Only	
Date Received:	Initial:	Planning Area:	
County Commission District:		Master Plan Designation(s):	
CAB(s):		Regulatory Zoning(s):	

Property Owner Affidavit

Applicant Name: Washoe County Community Services Department

The receipt of this application at the time of submittal d requirements of the Washoe County Development applicable area plan, the applicable regulatory zoning, be processed.	Code, the Washoe County Master Plan or the
STATE OF NEVADA)	
COUNTY OF WASHOE)	
1. DWAYNE SWOTH	
(please prin	t name)
being duly sworn, depose and say that I am the own application as listed below and that the foregoing stainformation herewith submitted are in all respects compand belief. I understand that no assurance or guara Building. (A separate Affidavit must be provided by each	atements and answers herein contained and the plete, true, and correct to the best of my knowledge untee can be given by members of Planning and
Assessor Parcel Number(s): 142-020-06	property content mand in the time report,
7.0000001 Tarocr (40.11bor(0),	
Print	red Name DWAYNE SOUTH
	Signed
	Address 1001 E. 97 St. RINO, NV 85
Subscribed and sworn to before me this day of December 2021.	(Notary Stamp)
Hacey Kerboot	200 miles de la companya del la companya de la comp
Notary Public in and for said county and state	LACEY KERFOOT Notary Public - State of Nevada
My commission expires: 01/27/2025	Appointment Recorded in Washoe County No: 21-5470-02 - Expires January 27, 2025
*Owner refers to the following: (Please mark appropriat	e box.)
☐ Owner	
☐ Corporate Officer/Partner (Provide copy of reco	rd document indicating authority to sign.)
☐ Power of Attorney (Provide copy of Power of Att	torney.)
 Owner Agent (Provide notarized letter from prop 	perty owner giving legal authority to agent.)
☐ Property Agent (Provide copy of record docume	ent indicating authority to sign.)
Letter from Government Agency with Stewardsh	nip

Special Use Permit Application Supplemental Information

(All required information may be separately attached)

1.	What is the project being requested?
	Add a deceleration lane in the ROW and approximately 0.4 acres of pavement on the parcel to provide access for a new truck effluent water fill facility at the existing County reclaim water reservoir and pump station site. This project also requests a modification to vary land use standards to modify landscape requirements of
2.	residential buffering by providing for double the required landscaping of 20% of the Provide a site plan with all existing and proposed structures (e.g. new structures, roadway improvements, utilities, sanitation, water supply, drainage, parking, signs, etc.)
	See plans for the site layout.
3.	What is the intended phasing schedule for the construction and completion of the project?
	This project is intended to be constructed in one phase in 2022.
4.	What physical characteristics of your location and/or premises are especially suited to deal with the impacts and the intensity of your proposed use?
	The site is generally flat for truck access, adjacent to a collector roadway, and has existing effluent infrastructure and matches the existing use.
5.	What are the anticipated beneficial aspects or affects your project will have on adjacent properties and the community?
	This site will provide a local construction water truck-fill site that provides reclaimed water which will reduce the community need on precious potable water higher value uses than construction, and may also reduce truck traffic in some instances by bringing construction water access closer to where it is needed.
6.	What are the anticipated negative impacts or affect your project will have on adjacent properties? How will you mitigate these impacts?
7.	Provide specific information on landscaping, parking, type of signs and lighting, and all other code
	Two flood lights are specified and will include side shields and occupancy sensors to limit the time that they are on

☐ Yes			☐ No			
Utilities:						
a. Sewer Service	a. Sewer Service					
b. Electrical Service						
c. Telephone Service						
d. LPG or Natural Gas	Service					
e. Solid Waste Dispos	al Service					
f. Cable Television Se	ervice					
g. Water Service						
Requirements, requires and quantity of water rig			•	•		maioato tric
h. Permit #				-feet per year		
i. Certificate #				-feet per year		
j. Surface Claim #			acre	-feet per year		
j. Surface Claim # k. Other #	s filed with	the State	acre	-feet per year	of Water F	Resources (
j. Surface Claim # k. Other # Title of those rights (a			acre acre Engineer in	-feet per year	of Water F	Resources (
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j. Surface Claim # k. Other # Title of those rights (a Department of Conserv. NA Community Services (p a. Fire Station b. Health Care Facility c. Elementary School d. Middle School	rovided and	atural Reso	acre acre Engineer in urces).	-feet per year	of Water F	Resources of
j. Surface Claim # k. Other # Title of those rights (a Department of Conserv. NA Community Services (p. a. Fire Station b. Health Care Facility c. Elementary School d. Middle School e. High School	rovided and	atural Reso	acre acre Engineer in urces).	-feet per year	of Water F	Resources

Special Use Permit Application for Grading

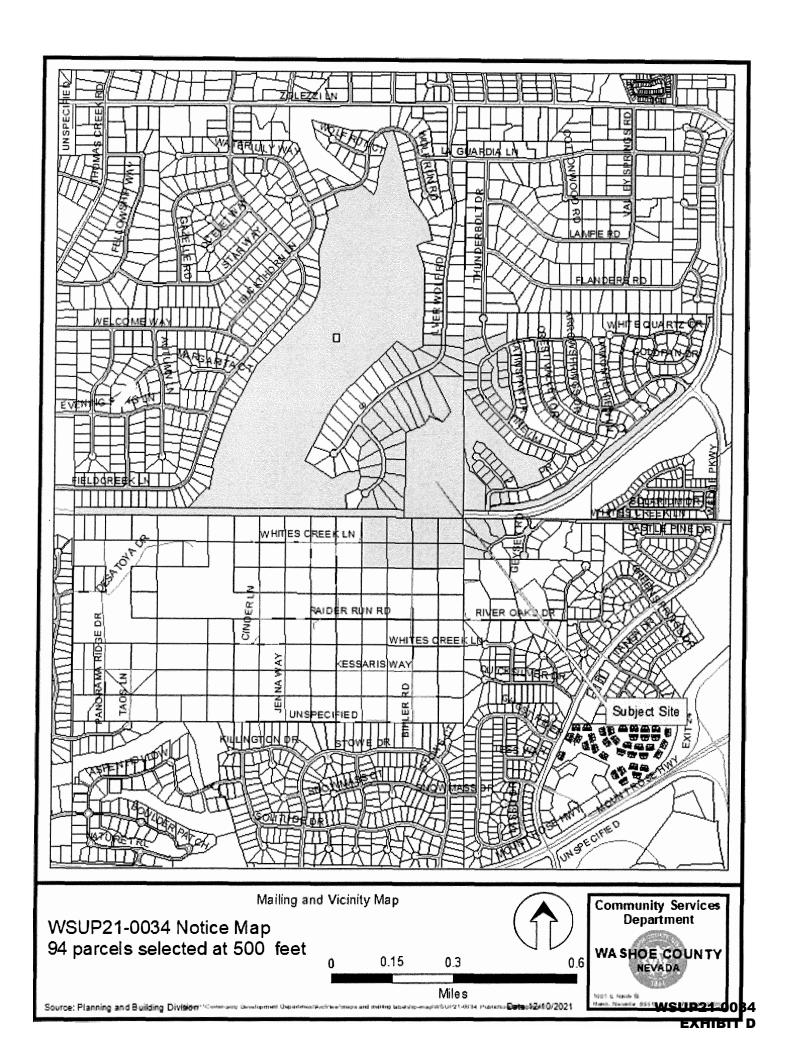
Supplemental Information

(All required information may be separately attached)

	(in required information may be departately attached)
1.	What is the purpose of the grading?
	To provide driveway access to and from the fill station pads and grading for fill station pads themselves.
2.	How many cubic yards of material are you proposing to excavate on site?
	2,500 +/- CY
3.	How many square feet of surface of the property are you disturbing?
	43,100 +/- SF including new
4.	landscaping. How many cubic yards of material are you exporting or importing? If none, how are you managing to balance the work on-site?
	684 CY of import for driveway pavement section (AB and AC)
5.	Is it possible to develop your property without surpassing the grading thresholds requiring a Special Use Permit? (Explain fully your answer.)
	Yes, the work associated with this project does not meet the requirements for a Special Use Permit for grading, see below.
6.	Has any portion of the grading shown on the plan been done previously? (If yes, explain the circumstances, the year the work was done, and who completed the work.)
	The existing project area is partially developed. Portions of the proposed grading have been done in accordance with the 1996/1997 SUPs that created the access driveway for the existing facility. The the grading plan was strategically developed to closely match existing grades and lie within the existing access way on site.
7.	Have you shown all areas on your site plan that are proposed to be disturbed by grading? (If no, explain your answer.)
	Yes

8.	Can the disturbed area be seen from off-site? If yes, from which directions and which properties or roadways? Nos. the disturbed area will be slightly visible from Arrowereek Parkway south of the lightly visible from the lig					
	Yes, the disturbed area will be slightly visible from Arrowcreek Parkway south of the project area and will be constructed over the existing unpaved road; however the proposed grading is very close to the existing grading and will now be shielded by strategically located landscaping.					
9.	Could neighboring properties also be served by the proposed access/grading requested (i.e. if you are creating a driveway, would it be used for access to additional neighboring properties)?					
	No					
10.	What is the slope (horizontal/vertical) of the cut and fill areas proposed to be? What methods will be used to prevent erosion until the revegetation is established?					
	The proposed minor fill slope (1'+/-) adjacent to the driveway is 3:1 and there will be a silt fence installed prior to construction at the toe of slope. All existing inlets will be protected using BMPs.					
11.	Are you planning any berms?					
	Yes No If yes, how tall is the berm at its highest?					
12.	If your property slopes and you are leveling a pad for a building, are retaining walls going to be required? If so, how high will the walls be and what is their construction (i.e. rockery, concrete, timber, manufactured block)?					
	N/A					
13.	What are you proposing for visual mitigation of the work?					
	The proposed work will be visually mitigated with strategic landscaping, brown paint matching existing infrastructure, and downcast shielded lights on occupancy sensors and access controls.					
14. Will the grading proposed require removal of any trees? If so, what species, how many a size?						
	No					
15.	What type of revegetation seed mix are you planning to use and how many pounds per acre do you intend to broadcast? Will you use mulch and, if so, what type?					
	No revegetation is proposed due to minimal disturbance to the site.					

16.	How are you providing temporary irrigation to the disturbed area?					
			used by contractor to provide dust suppression. Permanent pe improvements included on the plans.			
17.	you incorpor		evegetation plan with the Washoe Storey Conservation District? If yes, have ggestions?			
	N/A					
18.	Are there a prohibit the r	•	e covenants, recorded conditions, or deed restrictions (CC&Rs) that may ading?			
	Yes	No	If yes, please attach a copy.			



FIELD CREEK EFFLUENT FILL STATION

AND ARROWCREEK PARKWAY

PROJECT CONTACTS

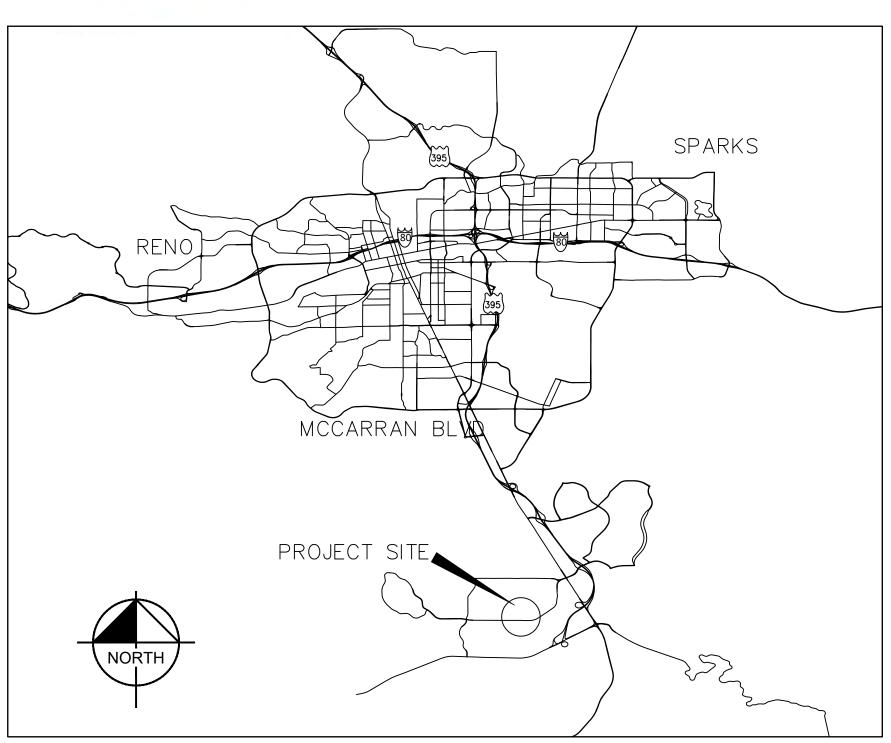
Kimley » Horn

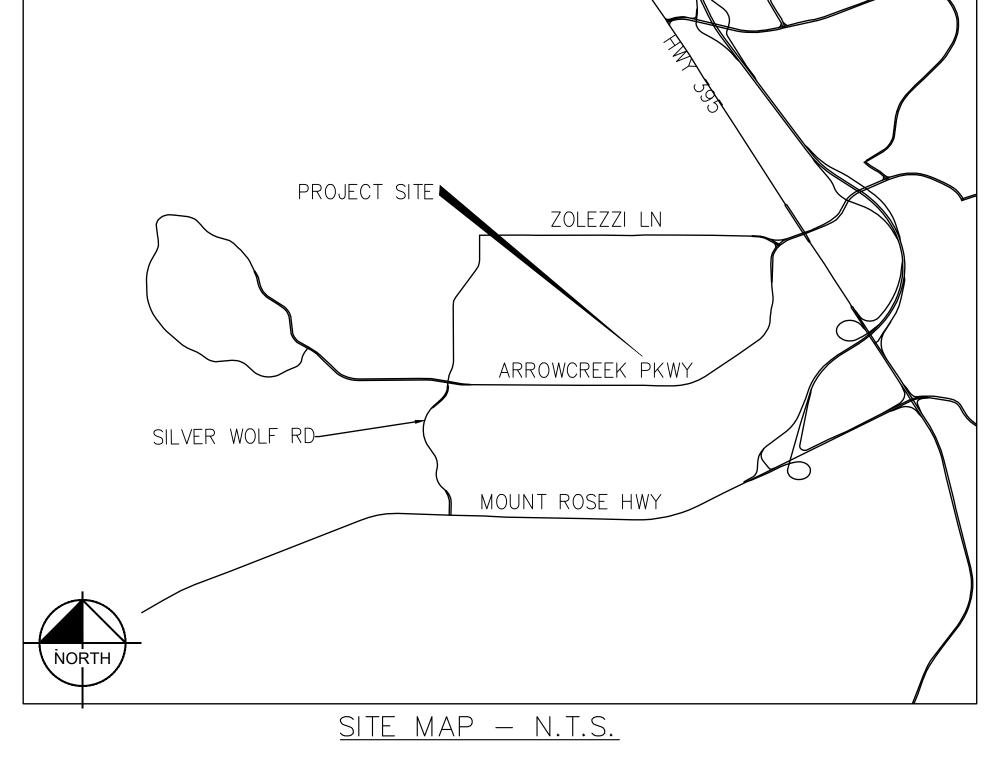


WASHOE COUNTY COMMUNITY SERVICES DEPARTMENT

IMPROVEMENT PROJECT WASHOE COUNTY COMMUNITY SERVICES DEPARTMENT

PUBLIC WORK PROJECT NO. PWP-WA-2021-279





VICINITY MAP - N.T.S.

1. ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE PROJECT SPECIFICATIONS, THE PROJECT GEOTECHNICAL REPORT (CME, MARCH 2, 2020), THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (SSPWC) ORANGE BOOK (CURRENT EDITION), AND THESE PROJECT

2.THE SCALES INDICATED ON THESE PLANS ARE BASED ON A 22"X34" SHEET SIZE.

3.THE CONTRACTOR SHALL IMMEDIATELY NOTIFY OWNER AND/ OR ENGINEER OF DISCREPANCIES BETWEEN THE INFORMATION SHOWN ON THESE DRAWINGS AND THE CONDITIONS EXISTING IN THE FIELD. THE CONTRACTOR SHALL COMPARE ALL DRAWINGS TO VERIFY THE FIGURES BEFORE LAYOUT OF THE WORK AND WILL BE RESPONSIBLE FOR ANY ERRORS WHICH MAY HAVE BEEN

4.THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CONSTRUCTION WATER AND SECURING STAGING AREA LOCATION(S).

5.DURING THE ENTIRE DURATION OF THIS CONSTRUCTION CONTRACT, THE CONTRACTOR SHALL IMPLEMENT DUST CONTROL MEASURES IN ACCORDANCE WITH WASHOE COUNTY RULES AND REGULATIONS. THE CONTRACTOR IS REQUIRED TO SUPPRESS DUST AT ALL TIMES, REGARDLESS OF WHEN CONSTRUCTION ACTIVITIES ARE OCCURRING. THE CONTRACTOR SHALL OBTAIN A STORMWATER GENERAL OR A SURFACE AREA DISTURBANCE PERMIT FROM THE NEVADA DEPARTMENT OF ENVIRONMENTAL PROTECTION AS REQUIRED, AND SHALL COMPLY WITH ITS REQUIREMENTS FOR DUST CONTROL ON ALL APPLICABLE PROJECTS.

6.THE CONTRACTOR SHALL PROTECT EXISTING UTILITIES AND OTHER INFRASTRUCTURE THROUGHOUT CONSTRUCTION. DAMAGE CAUSED BY THE CONTRACTOR SHALL BE REPLACED AT THE CONTRACTOR'S OWN EXPENSE.

7.CONTRACTOR SHALL ENSURE NO ENCROACHMENT INTO ADJACENT PROPERTIES OCCURS 8.TRAFFIC CONTROL, CONSTRUCTION SIGNS, AND BARRICADES SHALL CONFORM TO THE REQUIREMENTS OF THE MUTCD, LATEST EDITION (MAY, 2012).

9.THE CONTRACTOR SHALL COOPERATE WITH ANY OTHER CONTRACTORS OR UTILITY AGENCIES WORKING WITHIN THE CONSTRUCTION AREA.

10. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH SSPWC, THE FINAL GEOTECHNICAL REPORT AND ALL ISSUED ADDENDA, AND COMMONLY ACCEPTED CONSTRUCTION STANDARDS. THE COUNTY SPECIFICATIONS SHALL GOVERN WHERE OTHER SPECIFICATIONS DO NOT EXIST. IN CASE OF CONFLICTING SPECIFICATIONS OR DETAILS, THE MORE RESTRICTIVE SPECIFICATION AND DETAIL SHALL BE FOLLOWED.

11. THE CONTRACTOR SHALL FURNISH ALL MATERIAL AND LABOR TO CONSTRUCT THE FACILITY AS SHOWN AND DESCRIBED IN THE CONSTRUCTION DOCUMENTS IN ACCORDANCE WITH THE APPROPRIATE AUTHORITIES' SPECIFICATIONS AND REQUIREMENTS.

12. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING TO DETERMINE EXISTING CONDITIONS. 13. THE EXISTING CONDITIONS SHOWN ON THESE PLANS WERE PROVIDED BY THE TOPOGRAPHIC SURVEY PREPARED BY THE PROJECT SURVEYOR, AND ARE BASED ON THE BENCHMARKS SHOWN. THE CONTRACTOR SHALL REFERENCE THE SAME BENCHMARKS.

14. THE CONTRACTOR SHALL REVIEW AND VERIFY THE EXISTING TOPOGRAPHIC SURVEY SHOWN ON THE PLANS REPRESENTS EXISTING FIELD CONDITIONS PRIOR TO CONSTRUCTION, AND SHALL

REPORT ANY DISCREPANCIES FOUND TO THE OWNER AND ENGINEER IMMEDIATELY.

15. IF THE CONTRACTOR DOES NOT ACCEPT THE EXISTING TOPOGRAPHIC SURVEY AS SHOWN ON THE PLANS, WITHOUT EXCEPTION, THEN THE CONTRACTOR SHALL SUPPLY AT THEIR OWN EXPENSE, A TOPOGRAPHIC SURVEY BY A REGISTERED PROFESSIONAL LAND SURVEYOR TO THE OWNER AND ENGINEER FOR REVIEW.

16. THE CONTRACTOR SHALL REVIEW AND VERIFY ALL DIMENSIONS, ELEVATIONS, AND FIELD CONDITIONS THAT MAY AFFECT CONSTRUCTION. ANY DISCREPANCIES ON THE DRAWINGS SHALL BE OUTSIDE OF THE WORK AREA WILL BE ALLOWED. ANY DAMAGE RESULTING THEREFROM SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER BEFORE COMMENCING CONTRACTOR'S SOLE RESPONSIBILITY TO REPAIR. WORK. NO FIELD CHANGES OR DEVIATIONS FROM DESIGN ARE TO BE MADE WITHOUT PRIOR APPROVAL OF THE ARCHITECT, ENGINEER, AND IF APPLICABLE THE COUNTY AND OWNER. NO CONSIDERATION WILL BE GIVEN TO CHANGE ORDERS FOR WHICH THE COUNTY, ENGINEER, AND OWNER WERE NOT CONTACTED PRIOR TO CONSTRUCTION OF THE AFFECTED ITEM.

17.IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES WHICH MAY HAVE BURIED OR AERIAL UTILITIES WITHIN OR NEAR THE CONSTRUCTION AREA BEFORE COMMENCING WORK TO HAVE THEM LOCATE THEIR EXISTING UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE AN ADEQUATE MINIMUM NOTICE TO ALL UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION.

18. CONTRACTOR SHALL USE EXTREME CAUTION AS THE SITE CONTAINS VARIOUS KNOWN AND UNKNOWN PUBLIC AND PRIVATE UTILITIES.

19. THE LOCATIONS, ELEVATIONS, DEPTH, AND DIMENSIONS OF EXISTING UTILITIES SHOWN ON THE PLANS WERE OBTAINED FROM AVAILABLE UTILITY COMPANY MAPS AND PLANS, AND ARE CONSIDERED APPROXIMATE AND INCOMPLETE. IT SHALL BE THE CONTRACTORS' RESPONSIBILITY TO VERIFY THE PRESENCE, LOCATION, ELEVATION, DEPTH, AND DIMENSION OF EXISTING UTILITIES SUFFICIENTLY IN ADVANCE OF CONSTRUCTION SO THAT ADJUSTMENTS CAN BE MADE TO PROVIDE ADEQUATE CLEARANCES. THE ENGINEER SHALL BE NOTIFIED WHEN A PROPOSED IMPROVEMENT CONFLICTS WITH AN EXISTING UTILITY.

20. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ALL DAMAGES DUE TO THE CONTRACTORS' 32. SITE SAFETY IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR. FAILURE TO EXACTLY LOCATE AND PRESERVE ALL UTILITIES. THE OWNER OR ENGINEER WILL ASSUME NO LIABILITY FOR ANY DAMAGES SUSTAINED OR COST INCURRED BECAUSE OF THE OPERATIONS IN THE VICINITY OF EXISTING UTILITIES OR STRUCTURES. IF IT IS NECESSARY TO SHORE, BRACE, SWING OR RELOCATE A UTILITY, THE UTILITY COMPANY OR DEPARTMENT AFFECTED SHALL BE CONTACTED BY THE CONTRACTOR AND THEIR PERMISSION OBTAINED REGARDING THE METHOD TO USE FOR SUCH WORK.

21. THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ALL REQUIRED CONSTRUCTION PERMITS, APPROVALS, AND BONDS PRIOR TO CONSTRUCTION. A CITY OF RENO EXCAVATION AND ENCROACHMENT PERMIT WILL BE REQUIRED.

22. THE CONTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE AT ALL TIMES A COPY OF THE CONTRACT DOCUMENTS INCLUDING PLANS, GEOTECHNICAL REPORT AND ADDENDA, PROJECT AND COUNTY SPECIFICATIONS, AND SPECIAL CONDITIONS, COPIES OF ANY REQUIRED CONSTRUCTION PERMITS, EROSION CONTROL PLANS, SWPPP AND INSPECTION REPORTS.

23.ALL SHOP DRAWINGS AND OTHER DOCUMENTS THAT REQUIRE ENGINEER REVIEW SHALL BE SUBMITTED BY THE CONTRACTOR SUFFICIENTLY IN ADVANCE OF CONSTRUCTION OF THAT ITEM, SO THAT NO LESS THAN 10 BUSINESS DAYS FOR REVIEW AND RESPONSE IS AVAILABLE. 24. CONTRACTOR SHALL PROVIDE A COMPLETE SYSTEM CONSISTING OF PUMPS, FUEL MANAGMENT

UNIT, SUPPLY POWER, AND SYSTEM CONTROLS SUITABLE FOR A COMPLETE AND FULLY FUNCTIONING FILL STATION SYSTEM.

25.IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO SHOW, BY THE STANDARD TESTING PROCEDURES OF THE MATERIALS, THAT THE WORK CONSTRUCTED MEETS THE PROJECT REQUIREMENTS AND COUNTY SPECIFICATIONS.

26.ALL CONTRACTORS MUST CONFINE THEIR ACTIVITIES TO THE WORK AREA. NO ENCROACHMENTS

27. THE CONTRACTOR SHALL PROTECT ALL EXISTING STRUCTURES, UTILITIES, MANHOLES, POLES, GUY WIRES, VALVE COVERS, VAULT LIDS, FIRE HYDRANTS, COMMUNICATION BOXES/PEDESTALS, AND OTHER FACILITIES TO REMAIN AND SHALL REPAIR ANY DAMAGES AT NO COST TO THE OWNER.

28. THE CONTRACTOR SHALL IMMEDIATELY REPAIR OR REPLACE ANY PHYSICAL DAMAGE TO PRIVATE PROPERTY OR PUBLIC IMPROVEMENTS, INCLUDING BUT NOT LIMITED TO: FENCES, WALLS, SIGNS, PAVEMENT, CURBS, UTILITIES, SIDEWALKS, GRASS, TREES, LANDSCAPING, AND IRRIGATION SYSTEMS, ETC TO ORIGINAL CONDITION OR BETTER AT NO COST TO THE OWNER.

29.ALL AREAS IN EXISTING RIGHT-OF-WAY DISTURBED BY SITE CONSTRUCTION SHALL BE REPAIRED TO ORIGINAL CONDITION OR BETTER, INCLUDING AS NECESSARY GRADING, LANDSCAPING, CULVERTS, 30. THE CONTRACTOR SHALL REMOVE AND PROTECT ALL EXISTING POWER POLES, SIGNS, WATER

VALVES, FIRE HYDRANTS, METERS, ETC. THAT ARE TO BE REMOVED DURING CONSTRUCTION. THESE FACILITIES SHALL BE PROVIDED TO THE FACILITY OWNER IF THEY ARE NOT CALLED TO BE

31. CONTRACTOR SHALL MAINTAIN ADEQUATE SITE DRAINAGE DURING ALL PHASES OF CONSTRUCTION, INCLUDING MAINTAINING EXISTING DITCHES OR CULVERTS FREE OF OBSTRUCTIONS AT ALL TIMES.

THE CONTRACTOR SHALL KEEP TRENCHES FREE FROM WATER.

33. THESE PLANS DO NOT EXTEND TO OR INCLUDE DESIGNS OR SYSTEMS PERTAINING TO THE SAFETY OF THE CONTRACTOR OR ITS EMPLOYEES, AGENTS OR REPRESENTATIVES IN THE PERFORMANCE OF THE WORK. THE ENGINEER'S SEAL HEREON DOES NOT EXTEND TO ANY SUCH SAFETY SYSTEM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTATION OF ALL REQUIRED SAFETY PROCEDURES AND PROGRAMS.

34. SIGNS RELATED TO SITE OPERATION OR SAFETY ARE NOT INCLUDED IN THESE PLANS.

35. CONTRACTOR OFFICE AND STAGING AREA SHALL BE AGREED ON BY THE OWNER AND CONTRACTOR PRIOR TO BEGINNING OF CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR ALL PERMITTING REQUIREMENTS FOR THE CONSTRUCTION OFFICE, TRAILER, STORAGE, AND STAGING OPERATIONS AND LOCATIONS.

36. CONTRACTOR SHALL KEEP A NEAT AND ACCURATE RECORD OF CONSTRUCTION, INCLUDING ANY DEVIATIONS OR VARIANCES FROM THE PLANS.

37.THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AS-BUILT PLANS TO THE ENGINEER AND COUNTY IDENTIFYING ALL DEVIATIONS AND VARIATIONS FROM THESE PLANS MADE DURING CONSTRUCTION.

SHEET LIST				
SHEET NUMBER	SHEET TITLE			
G1	TITLE SHEET			
C1	EROSION CONTROL AND DEMOLITION			
C2	SITE PLAN			
C3	FILL STATION PLAN AND SECTION			
C4	DRIVEWAY PLAN & PROFILE			
C5	EFFULENT LINE PLAN & PROFILE			
C6	STRIPING AND SIGNAGE			
D1	DETAIL 01 OF 04			
D2	DETAIL 02 OF 04			
D3	DETAIL 03 OF 04			
D4	DETAIL 04 OF 04			
E1	ELECTRICAL PLAN			
E2	ELECTRICAL PLAN			
E3	ELECTRICAL DETAILS			
E4	ELECTRICAL DETAILS			
E 5	ELECTRICAL DETAILS			
L1	LANDSCAPE PLAN			
L2	LANDSCAPE DETAILS			
L3	IRRIGATION PLAN			
L4	IRRIGATION DETAILS			
L5	SPECIFICATIONS			
S1	FILL STATION STRUCTURAL DETAILS			

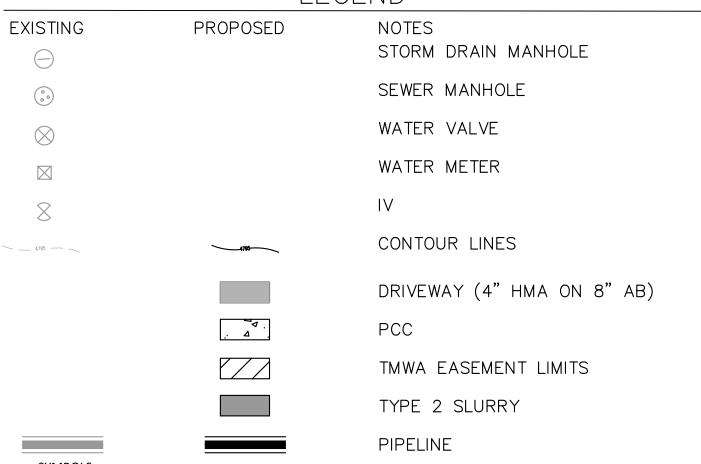
SHFFT LIST

ABBREVIATIONS

AWWA	AMERICAN WATER WORKS ASSOCIATION	(P)	PROPOSED	
BMP	BEST MANAGEMENT PRACTICE	PROP	PROPERTY	
BVCE	BEGIN VERTICAL CURVE ELEVATION	PVC	POINT OF VERTICAL CURVE	
BVCS	BEGIN VERTICAL CURVE STATION	PVI	POINT OF VERTICAL INTERSECTION	
CMP	CORRUGATED METAL PIPE	RCP	REINFORCED CONCRETE PIPE	
DIP	DUCTILE IRON PIPE	RMJ	RESTRAINED MECHANICAL JOINT	
DR	DIMENSION RATIO	ROW	RIGHT-OF-WAY	
ELEC	ELECTRIC	PRC	POINT OF REVERSE CURVE	L
ELEV	ELEVATION	RT	RIGHT	
EG	EXISTING GROUND	SD	STORM DRAIN	
E/P / EOP	EDGE OF PAVEMENT	SDMH	STORM DRAIN MANHOLE	
(E) / EX	EXISTING	SF	SILT FENCE	
EVCE	END VERTICAL CURVE ELEVATION	SIP	SITE IMPROVEMENT PERMIT	L
EVCS	END VERTICAL CURVE STATION	S.L.	STREET LIGHT	
FL	FLANGE	SS	SANITARY SEWER	
IE	INVERT ELEVATION	SSMH	SANITARY SEWER MANHOLE	
K	CURVATURE COEIFFIENT	STA	STATION	
KH	KIMLEY-HORN	SWPPP	STORM WATER POLLUTION PREVENTION	L
LAT	LATERAL		PLAN	
LT	LEFT	T/TELE	TELEPHONE	
MAX	MAXIMUM	TYP	TYPICAL	
МН	MANHOLE	VC	VERTICAL CURVE	ı
MIN	MINIMUM	W/WM	WATER MAIN	
NDED	NEVADA DEDADIMENT OF	**/ **!*!	TT/ VILIV IVI/VIII V	

LEGEND

ENVIRONMENTAL PROTECTION



SYMBOLS:

---- DETAIL NUMBER 、XX /→ SHEET NUMBER

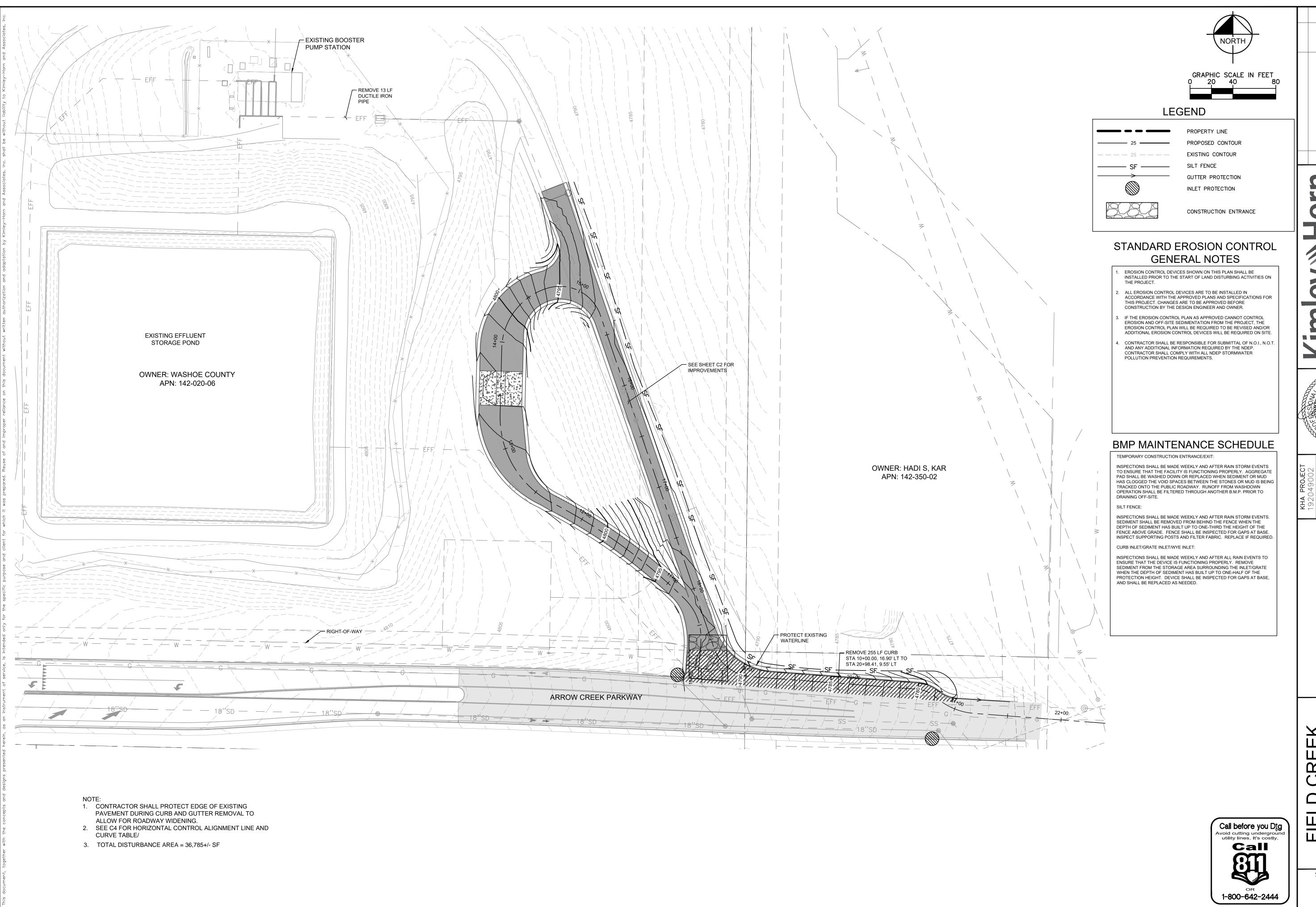
SURVEY INFORMATION

HORIZONTAL DATUM: NEVADA STATE PLANE COORDINATE SYSTEM NAD 83/94 (HARN), WEST ZONE, MODIFIED BY A GRID TO GROUND COMBINED SCALE FACTOR OF 1.000197939 BASED ON THE WASHOE COUNTY GPS NETWORK

VERTICAL DATUM: NAVD 88 BASED ON CITY OF RENO BENCHMARK #2887, ELEVATION 4533.36 1-1/2" STEEL BOLT



SHEET NUMBER

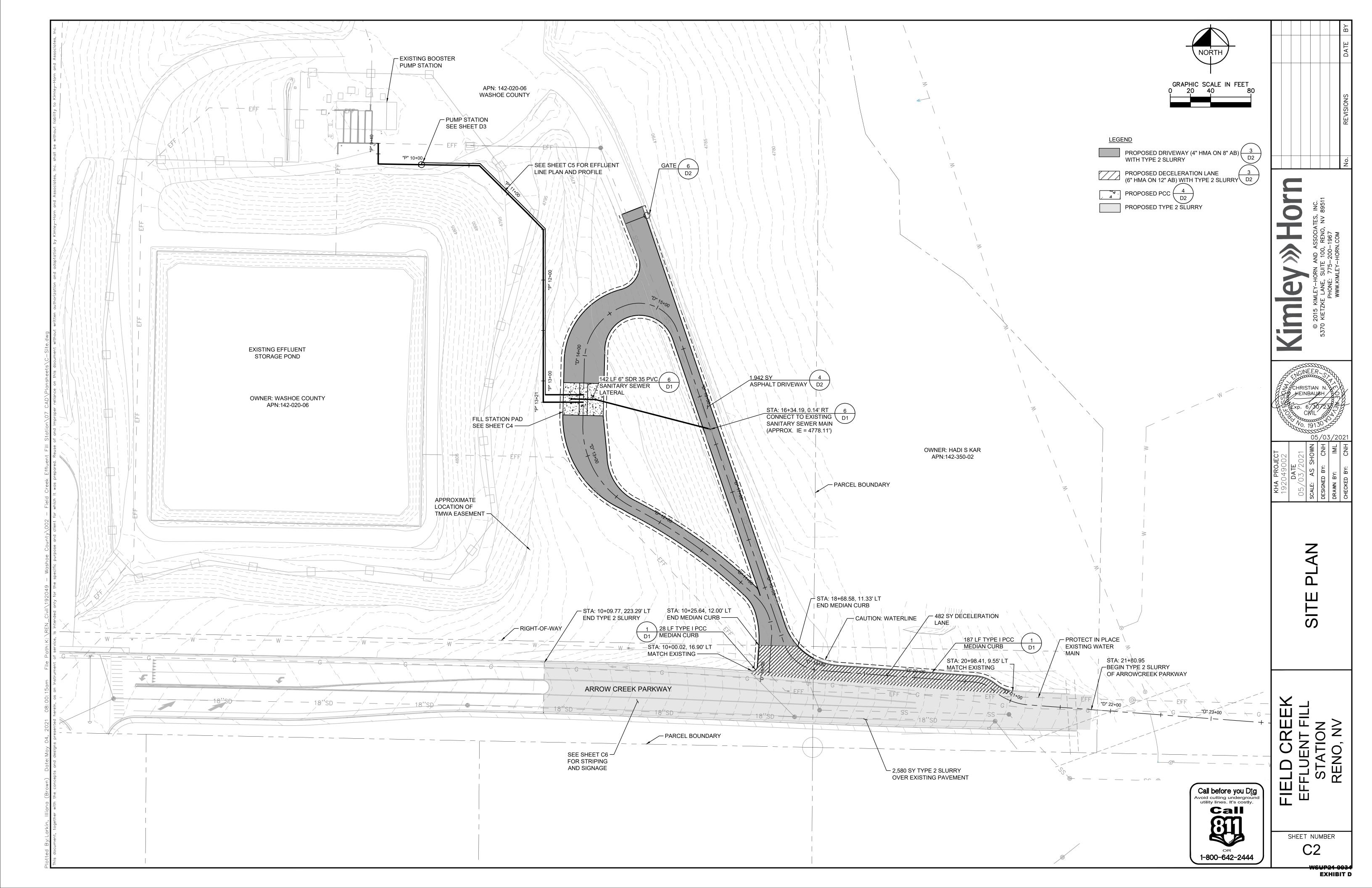


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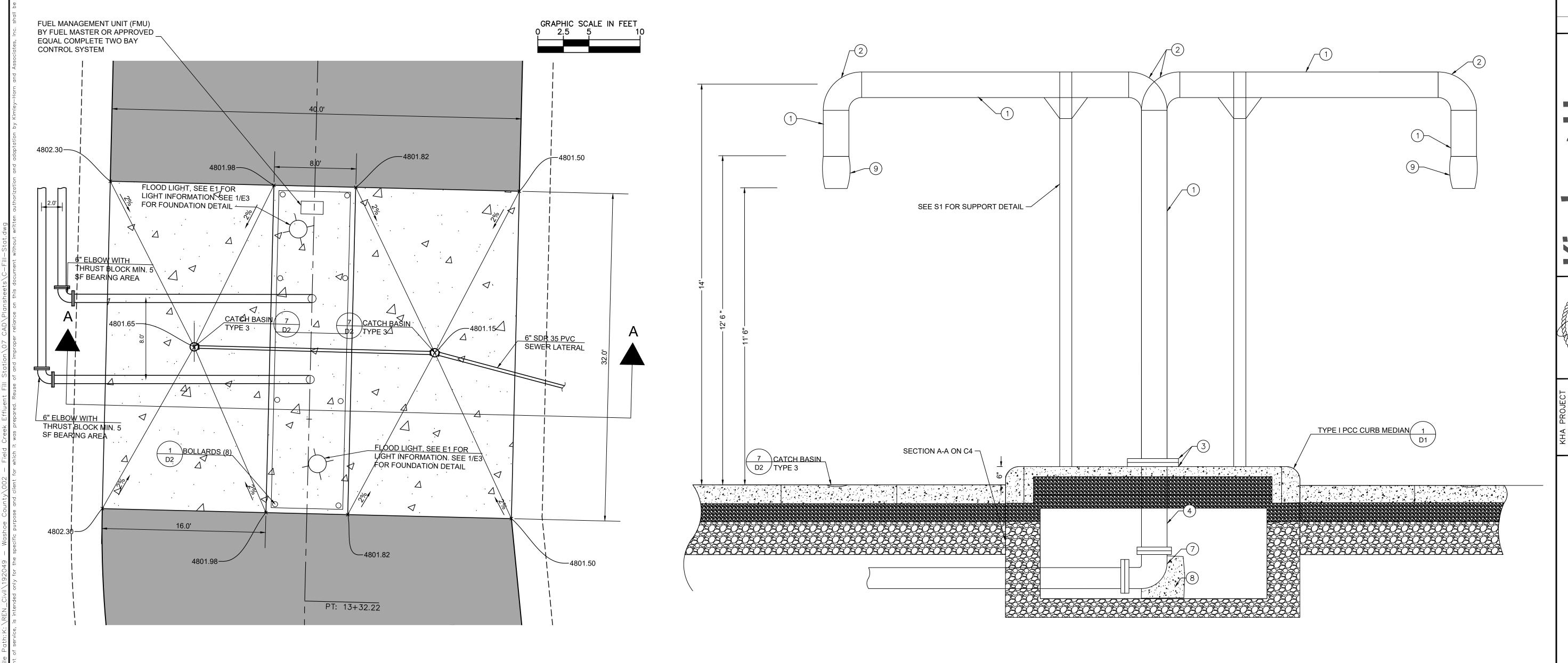
ODEMOLITION

S AND

SHEET NUMBER







PROPOSED MATERIAL LIST

- 1) 6" STANDARD STEEL PIPE
- 2 6" STEEL 90° WELD ELBOW
- 3 6" SLIP-ON ELD FLANGE
- 4 6" FLANGE X PLAIN END DUCTILE IRON SPOOL. CUT TO FIT
- 7 6" DUCTILE IRON FLANGE 90° ELBOW
- 8 CONCRETE THRUST BLOCK. MINIMUM 5 SQUARE FEET BEARING AREA
- 9 FLEXIBLE SOCK, SECURE WITH STAINLESS STEEL HARDWARE

SECTION A-A NOT TO SCALE

1. ALL EXPOSED STEEL PIPE, HARDWARE, AND APPURTENANCES ARE TO RECEIVE TWO FIELD-APPLIED COATS OF BROWN CARBOLINE 801, OR APPROVED EQUAL. APPLY ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

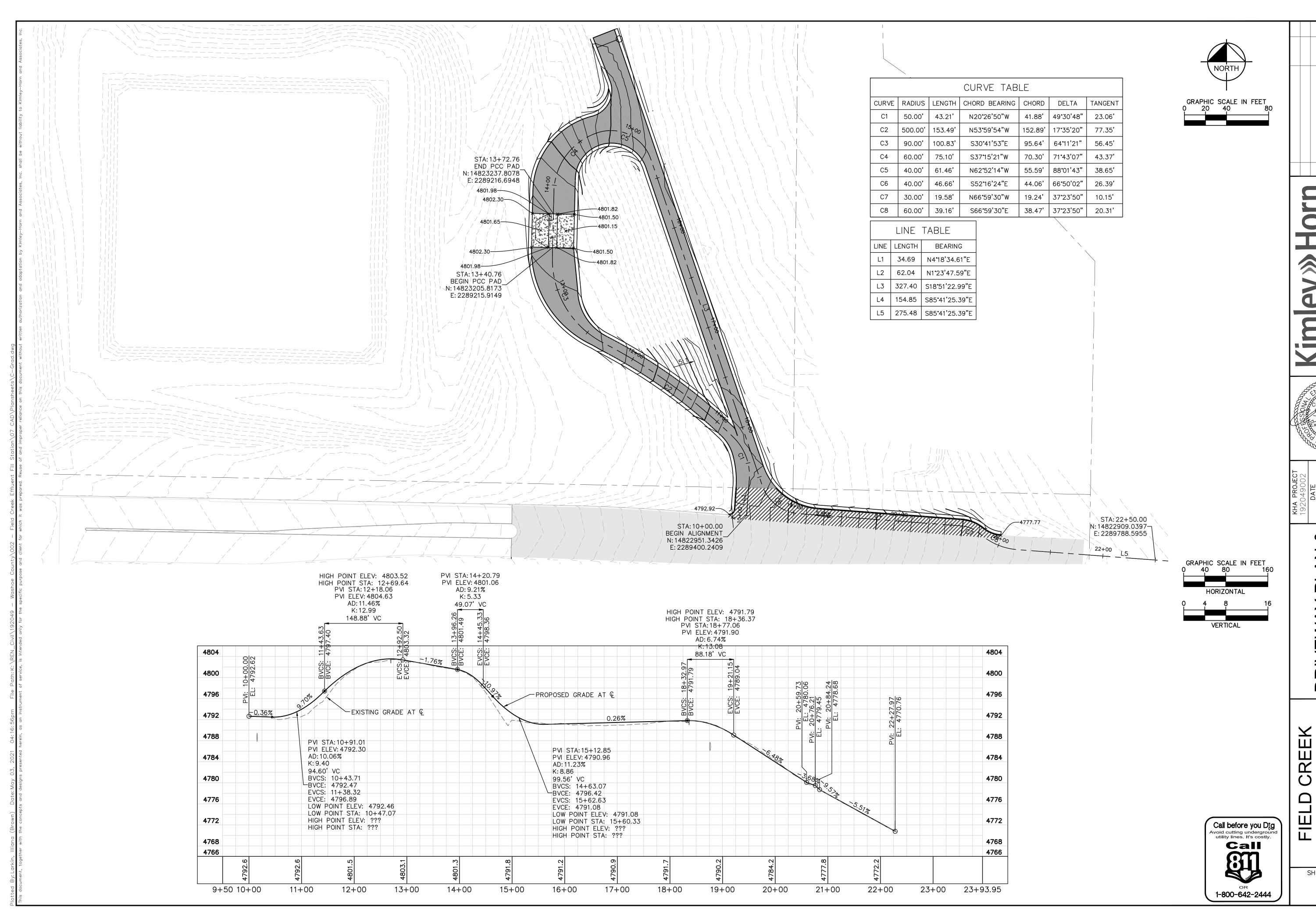


SHEET NUMBER

FIELD CREEK
EFFLUENT FILL
STATION
RENO, NV

ATION PLA SECTION

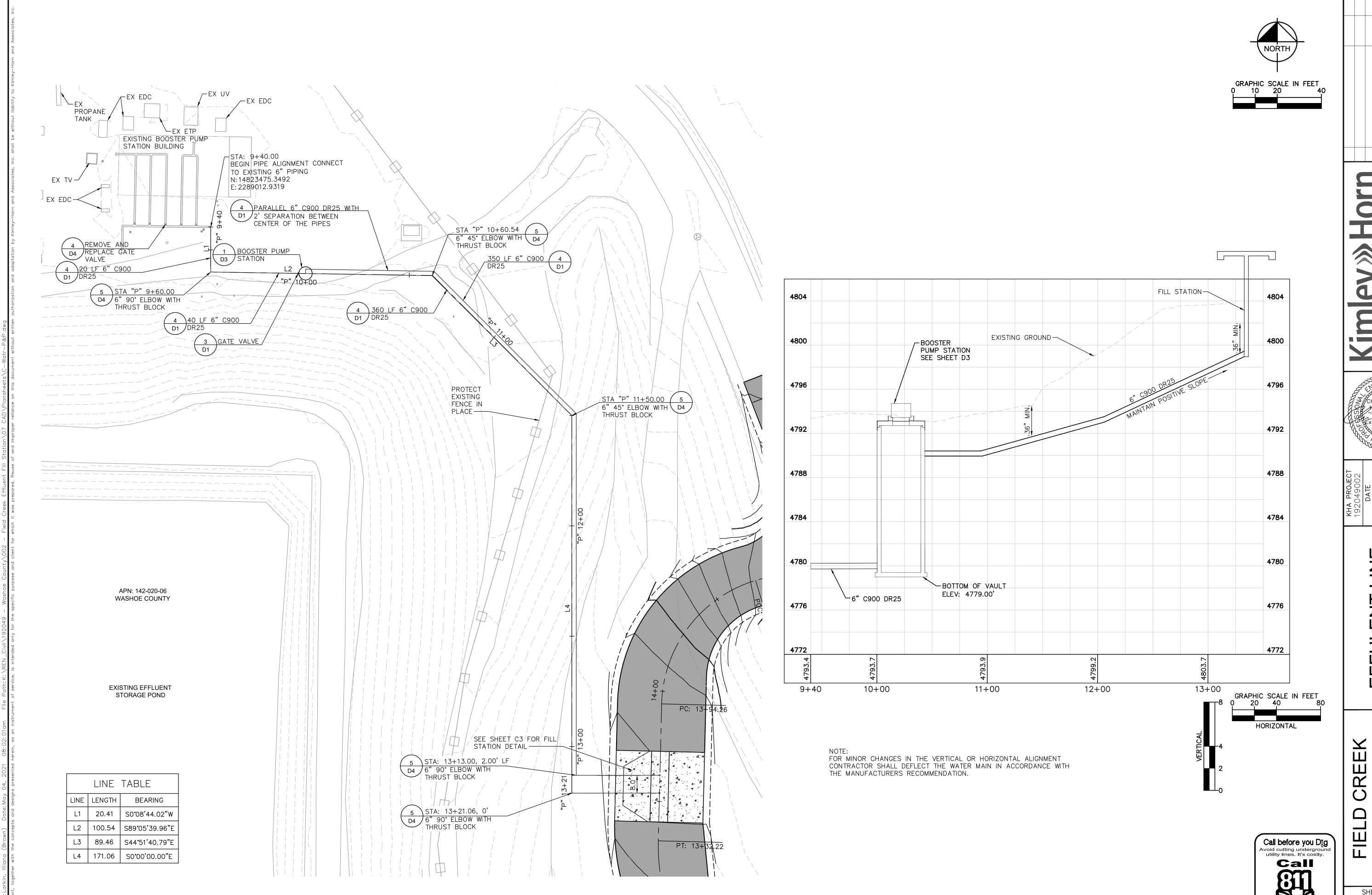
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EWAY P PROFILI

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EFFLUENT FILL STATION RENO, NV SHEET NUMBER C4



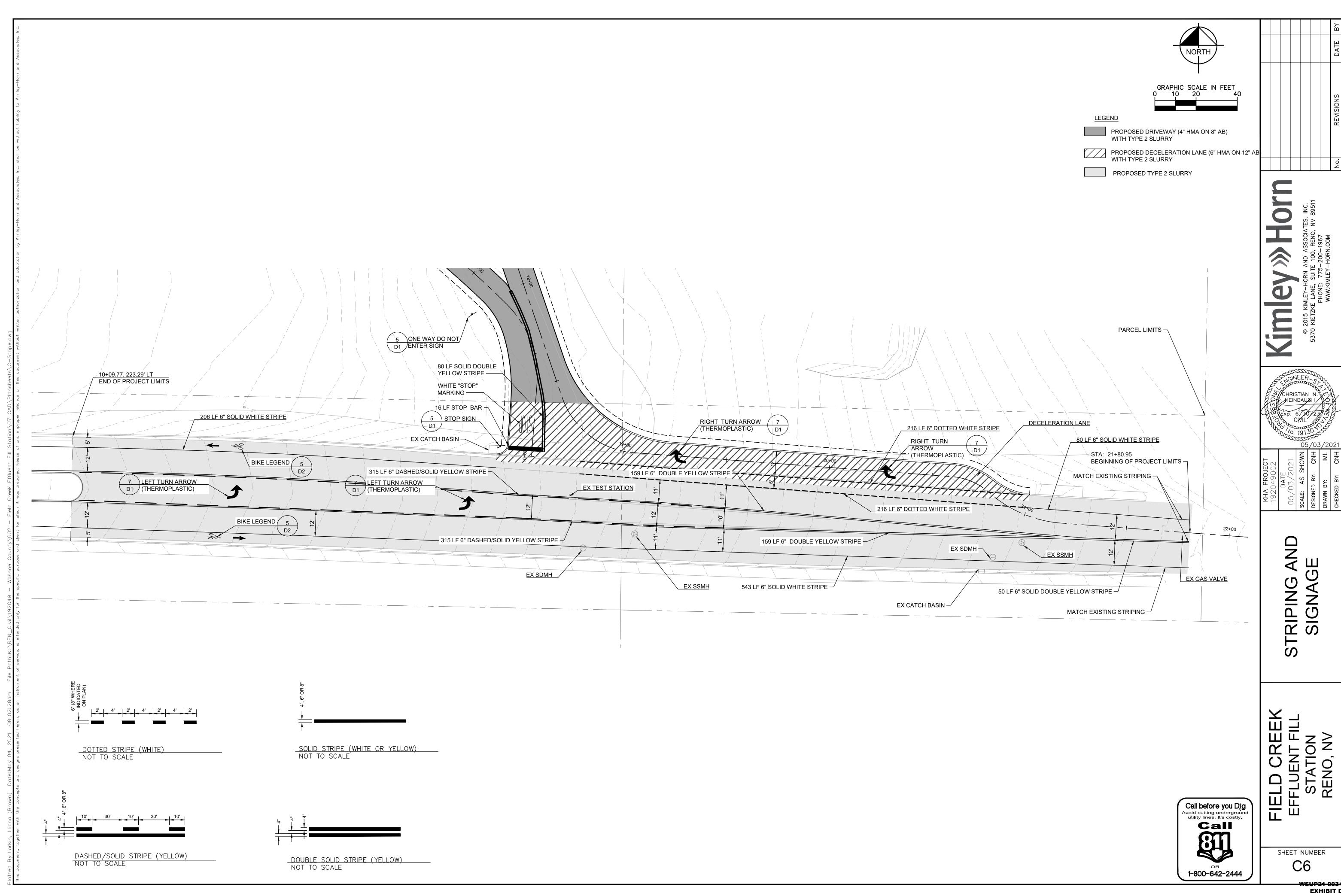
ENT LINE PROFILE ∞

L

FIELD CREEK
EFFLUENT FILL
STATION
RENO, NV

SHEET NUMBER C5

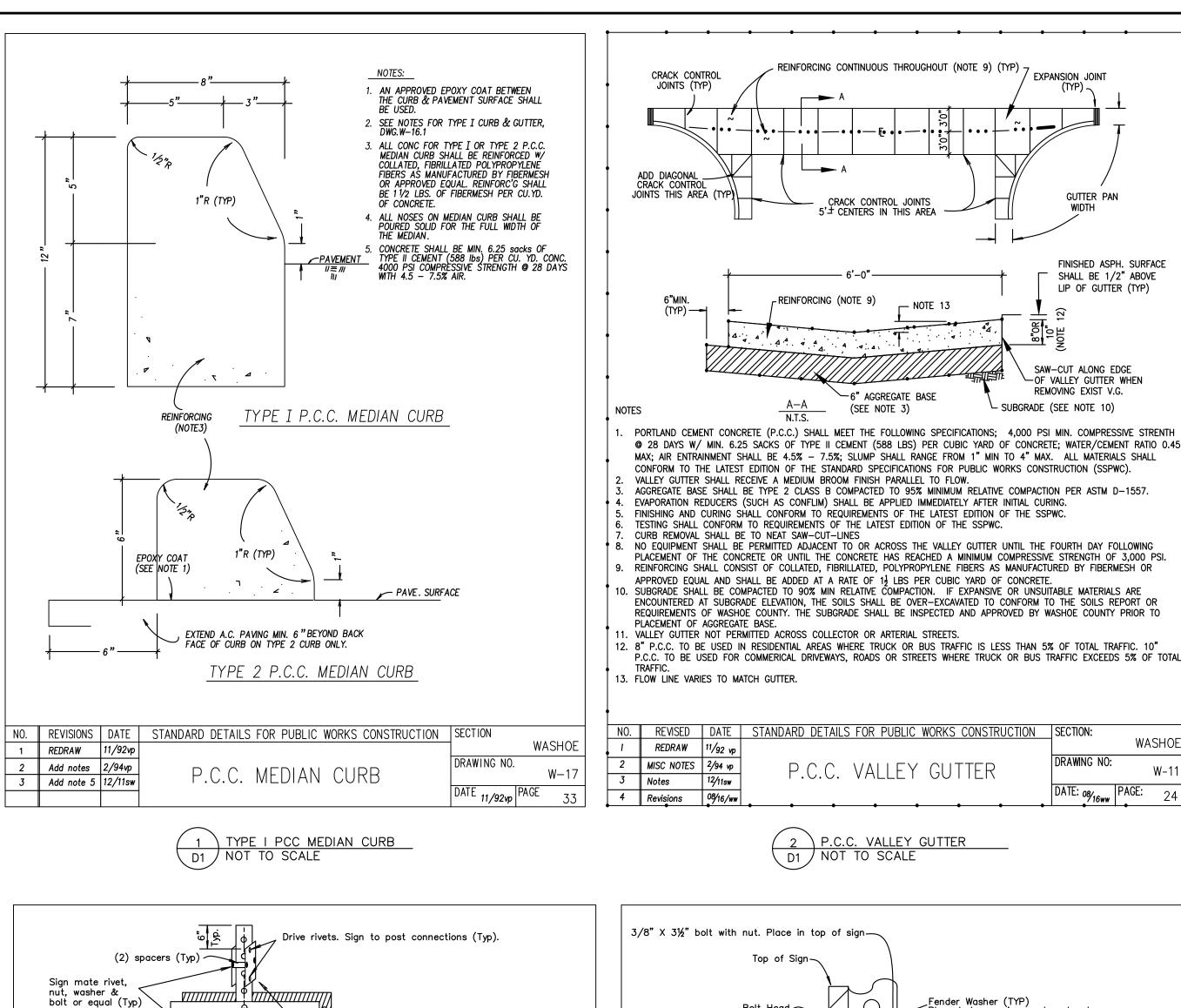
1-800-642-2444



05/03/202

STRIPING AND SIGNAGE

SHEET NUMBER C6



Drive rivets (Typ).

72"(Note 3)

perforated galv. steel

Conc to be flush w/finish

2"sq tubing must be

removable from 2-1/4"tubing |

2"anchor pin, weld to

exterior of 2-1/4 tubing only

tubing sleeve w/

Concrete 12/11sw

2-1/4"sq 12ga galv. solid

sealed bottom 26"long

grade. (Note 4)

tubing signpost. Painting

not req'd. on galv tubing.

Holes 7/16"dia.

Standard Traffic Sign ———

Standard Traffic Sign shall be anchored to post with 1 drive rivet. Add 3/8" fender

sign to the post.

washer between rivet head and

face of sign to firmly attach

or in specifications. See Note 2. Refer

to drawing W-6 for Street name sign.

—Bolt with nut and washers (see detail on W-15.1)

Sign sheeting for all signs shall be diamond grade. Sign thickness shall be .080ga. minimum. All materials & sizes

shall be in conformance with the latest edition of the Manual On Uniform Traffic Control Devices [MUTCD]. County specs

the min. as required by the MUTCD.

2. Signs shall be mounted with vandal—proof

3. On streets where curb does not exist: set

min. of 6' from pavement edge.

· 1-3/8" x 3" bolt w/nut & lockwasher.

2-1/2"sq 12ga perf. galv. anchor post, 18"long

(588 lbs of TYPE II Cement)

6.25 sacks 6

REVISION | DATE | STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION | SECTION:

STANDARD TRAFFIC SIGN

4000 psi Concrete

edge of sign closest to roadway at a

7'0"dim is measured from finished grade

at post location where curb exists or from

finished pavement shoulder where no curb

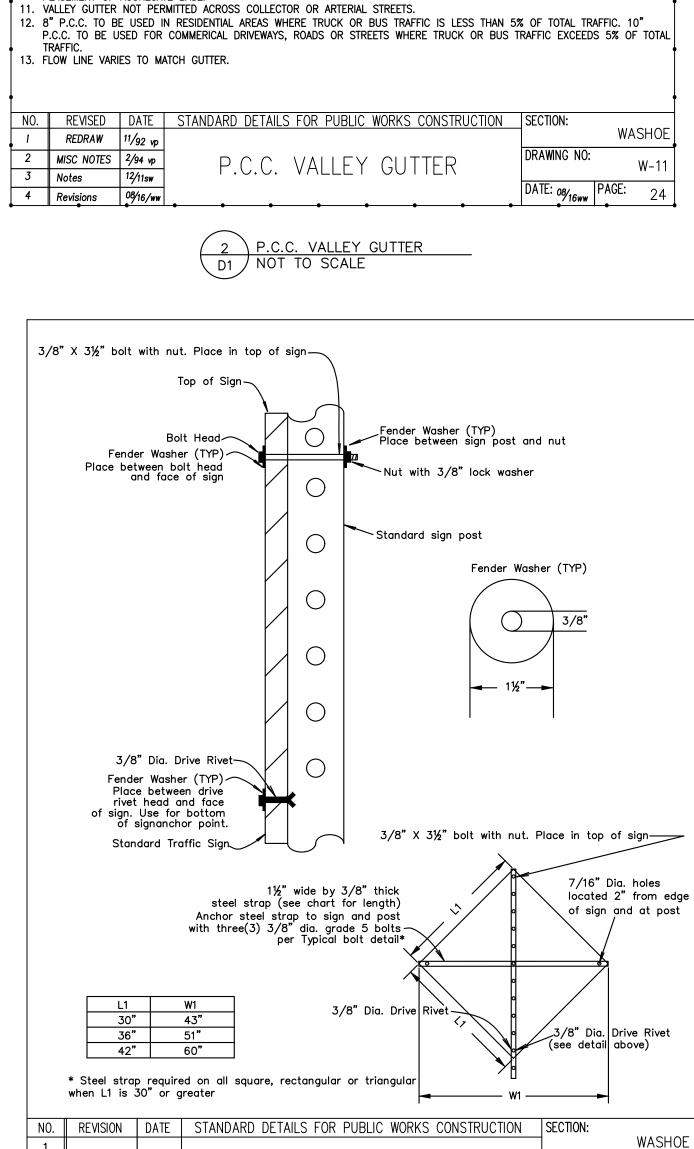
WASHOE

W-15

5 STANDARD TRAFFIC SIGN

DRAWING NO:

& dimensions shall prevail when they exceed



STANDARD TRAFFIC SIGN

REINFORCING CONTINUOUS THROUGHOUT (NOTE 9) (TYP) -

CRACK CONTROL JOINTS

-6" AGGREGATE BASE

(SEE NOTE 3)

5'± CENTERS IN THIS AREA

REINFORCING (NOTE 9)

N.T.S.

EXPANSION JOINT

GUTTER PAN

FINISHED ASPH. SURFACE

SHALL BE 1/2" ABOVE

LIP OF GUTTER (TYP)

SAW-CUT ALONG EDGE

REMOVING EXIST V.G.

- SUBGRADE (SEE NOTE 10)

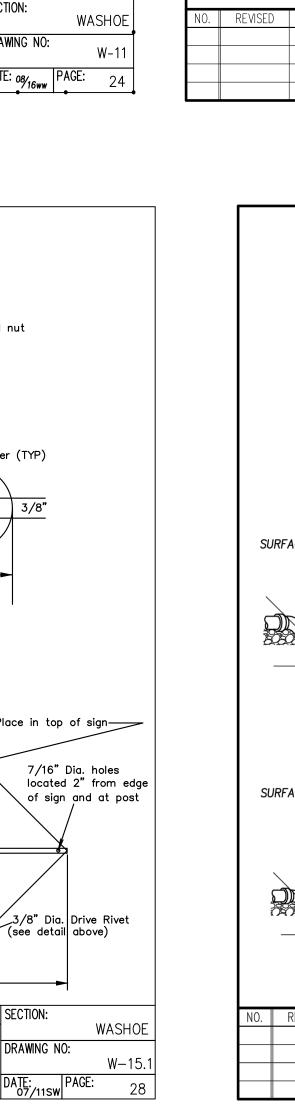
─OF VALLEY GUTTER WHEN

CRACK CONTROL

JOINTS (TYP)

6"MIN.

(TYP) — —



EPOXY COAT VALVE COVER PURPLE

(FOR RECLAIMED WATER ONLY)

- BLUE HANDLE FOR WATER PURPLE HANDLE FOR RECLAIMED

SEE NOTE 4

CAST IRON VALVE BOX AND

6" RISER PIPE TO BE

ON VALVE STEM

12 GAUGE

LOCATOR WIRE

SIZE PIPE PER PLANS

TO THEIR RESPECTIVE REQUIREMENTS.

MATERIAL USED FOR SUPPORT BLOCKING SHOULD NOT PREVENT ACCESS TO THE BOLT ASSEMBLY.

VALVE BOXES TO BE SET 3/8"-5/8" BELOW FINISHED ROADWAY SURFACE, INSTALL OPERATING

EXTENSION WITH OPERATING NUT RESTRAINING BOLT & TOP CENTERING PLATE. ANCHOR BARS &

SHALL ONLY BE USED WHEN THE VALVE BOX IS LOCATED OUTSIDE OF PAVED AREAS.

CONCRETE SHALL MEET THE REQUIREMENTS OF SEC. 202.01 OF THE STANDARD SPECIFICATIONS, REBAR

REDWOOD BLOCKS NOT REQUIRED WHEN OPERATING NUT IS AT GREATER DEPTH THAN 4' FROM FINISHED

PAVING. SEAL A.C. SURFACE WITH SS-1 SAND. CHIP SEAL, FOG SEAL, SAND SEAL, OR SLURRY SEAL AS

REQUIRED BY PLANS OR SPECS. EXTEND CONCRETE COLLAR TO GRADE WHEN NOT LOCATED IN ASPHALT

CONCRETE COLLARS IN THE CITY OF RENO OR SPARKS ROADS SHALL BE BROUGHT TO GRADE ACCORDING

VALVE DETAIL

STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION | SECTION:

CONCRETE COLLAR TO BE LEFT 2" BELOW FINISH ASPHALT SURFACE. APPLY SS-1 TACK COAT BEFORE

PLUMB AND CENTERED

COVER MARKED "WATER".

CENTERING PLATE REQUIRED

UNPAVED -

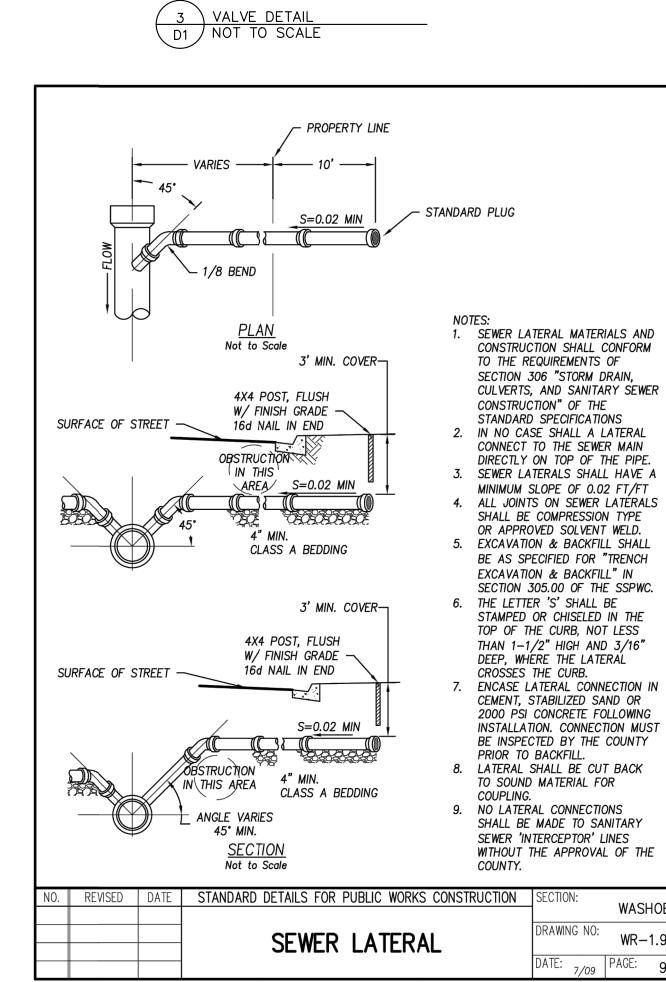
#4 REBAR

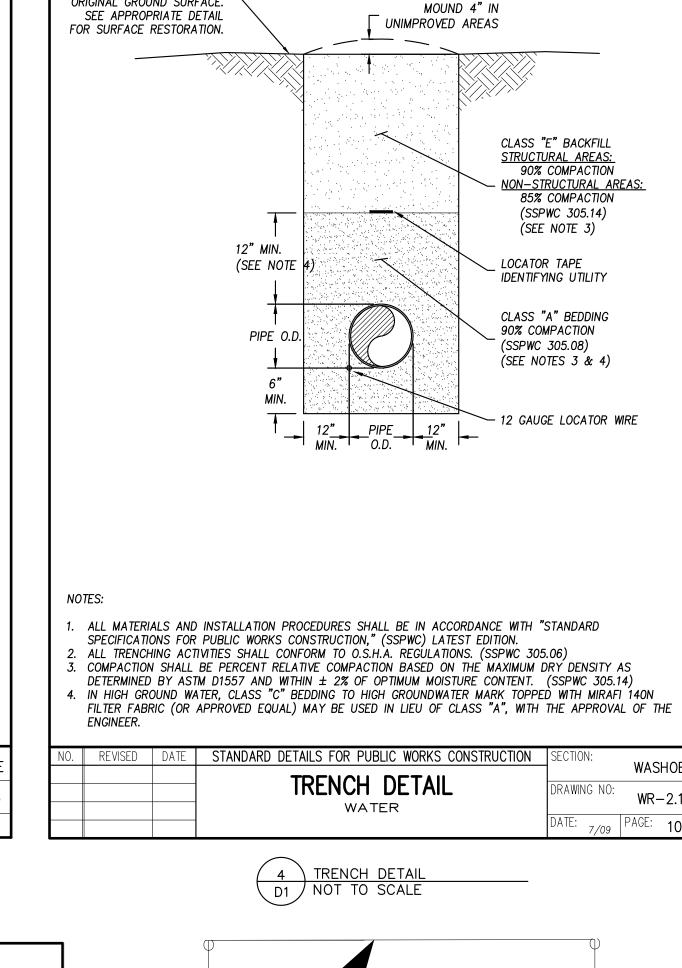
(SEE NOTE 2)

CONCRETE COLLAR

WHEN OPERATING NUT

EXTENSION IS USED





FINISHED SUBGRADE OR

ORIGINAL GROUND SURFACE.

– SEE NOTE 3

ASPHALT

PAVEMENT

CONCRETE SHALL BE MIN.

OF FINISHED GRADE.

CONCRETE BLOCK SHALL BE

WITH 4.5%-7.5% AIR ENTRAINMENT

MIN. 6 SACK 4000 P.S.I.

WITH 4.5%-7.5% AIR ENTRAINMENT

STEEL EXTENSION REQUIRED TO

- BRING OPERATING NUT WITHIN 4'

INSTALL VALVE BOX

- RISER 2" BELOW TOP

OF VALVE OPERATOR

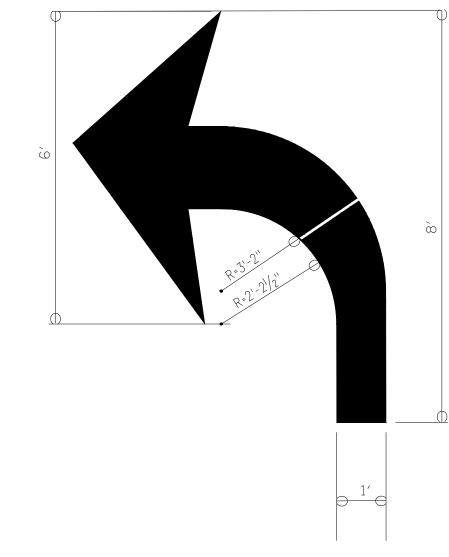
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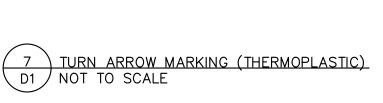
WR - 2.3

RAWING NO:

: __{7/09} | PAGE:

– 6.25 SACK 4000 P.S.I.







R STA 밀띥

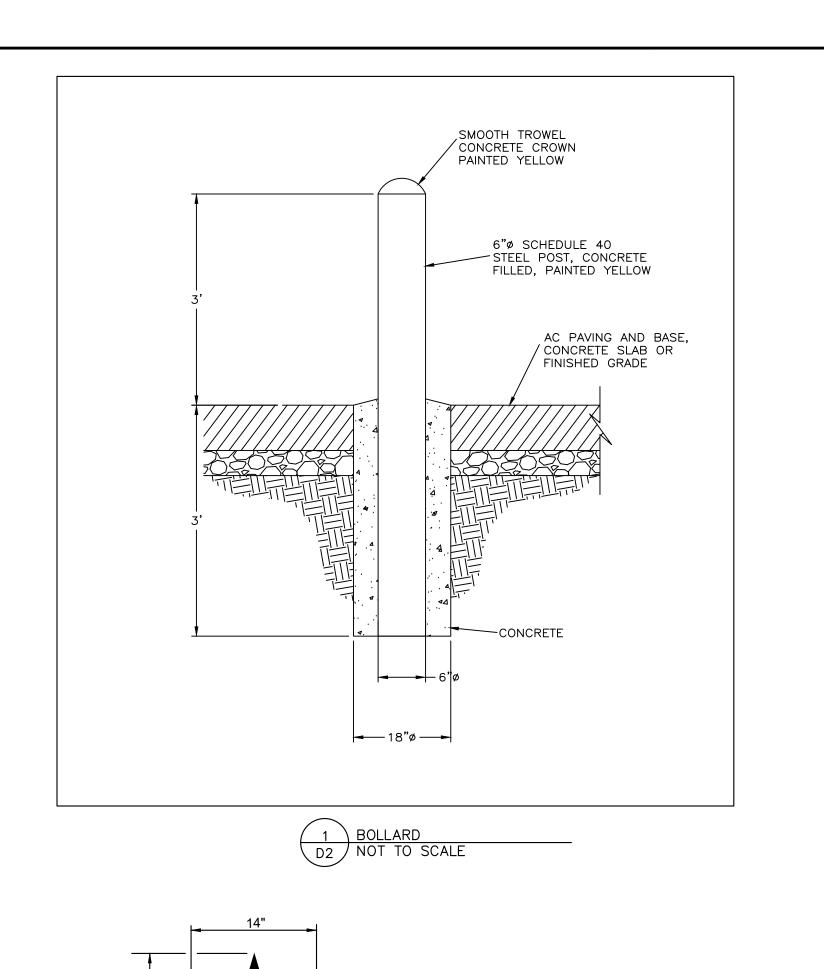
HEINBAU&H

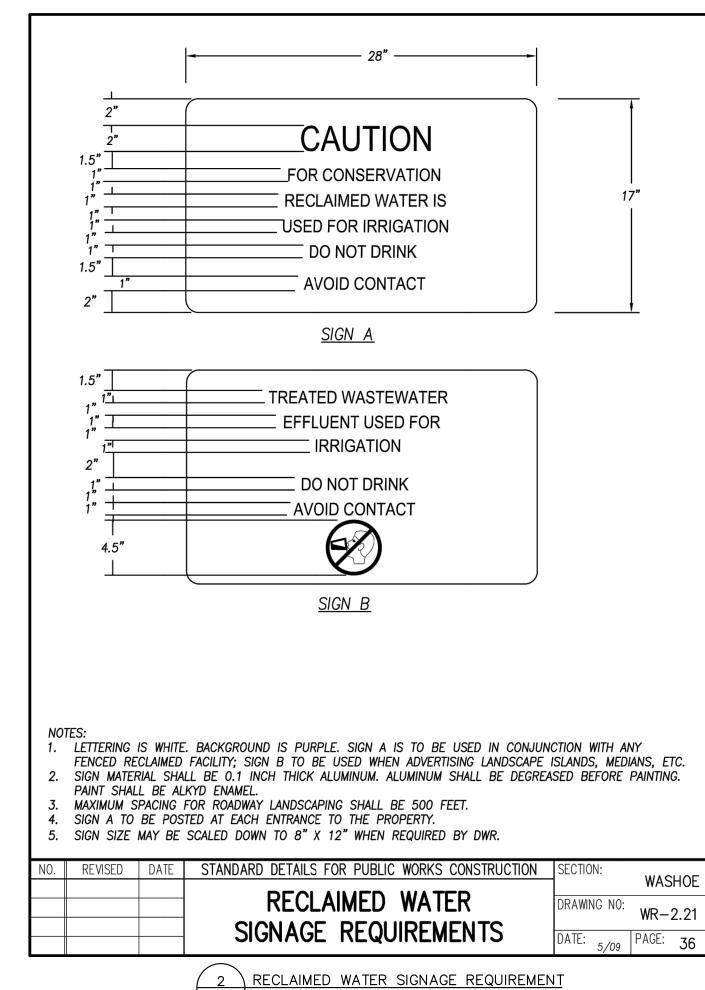
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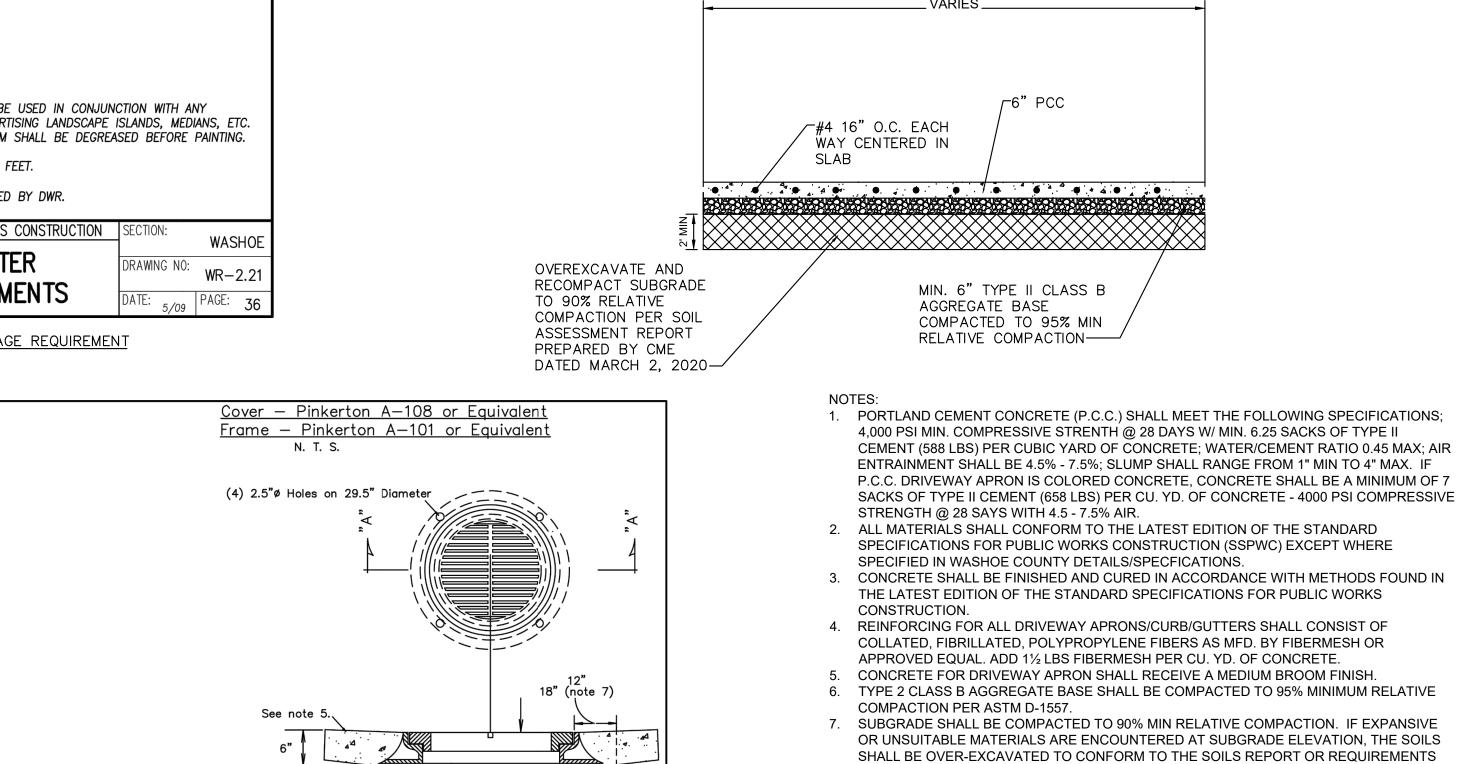
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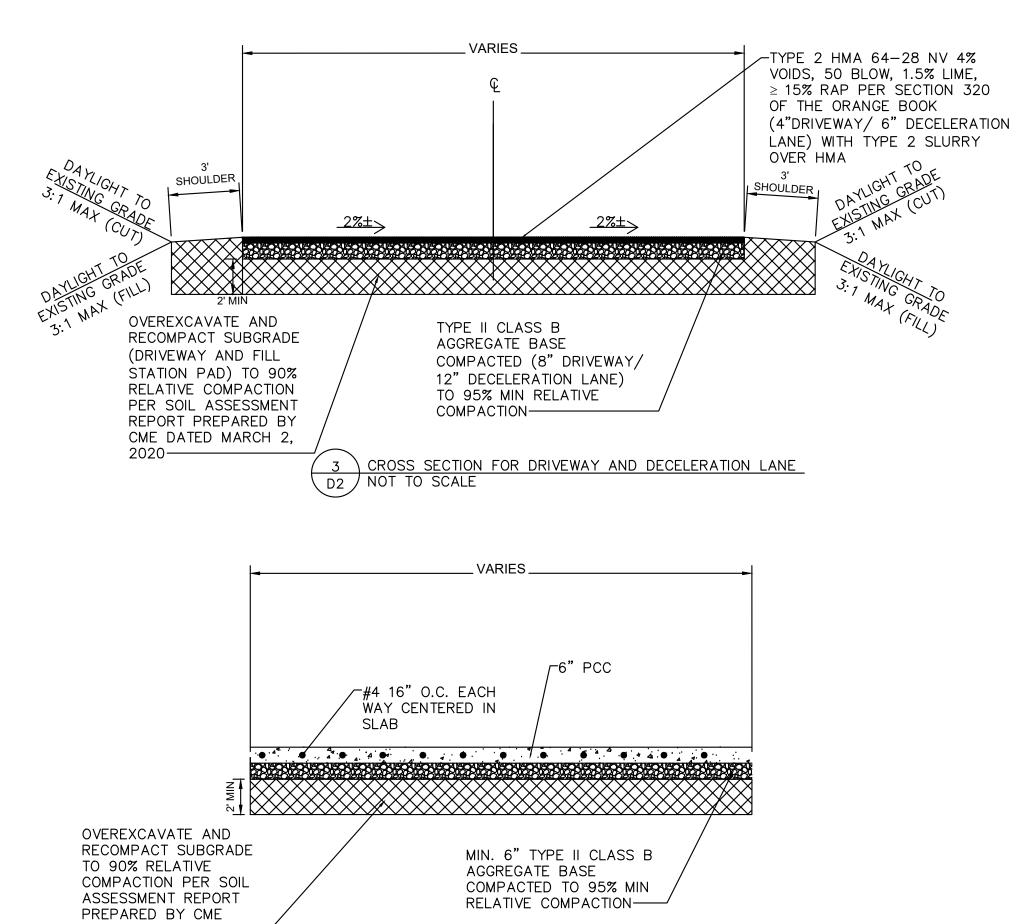
05/03/202

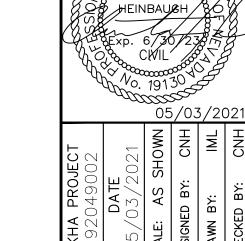
SHEET NUMBER









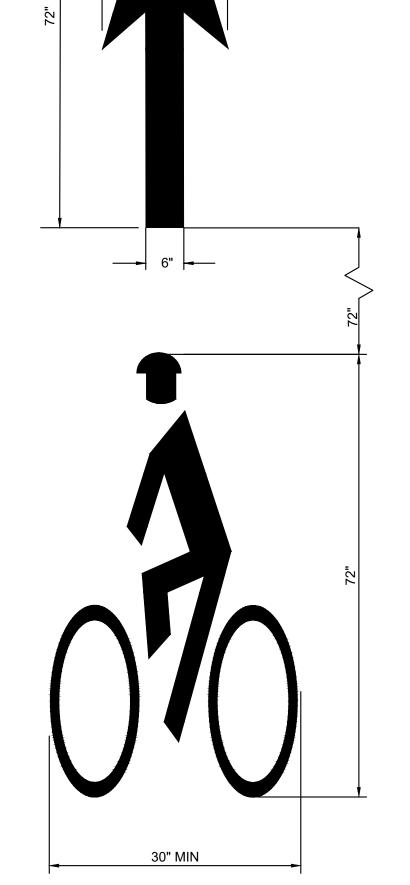


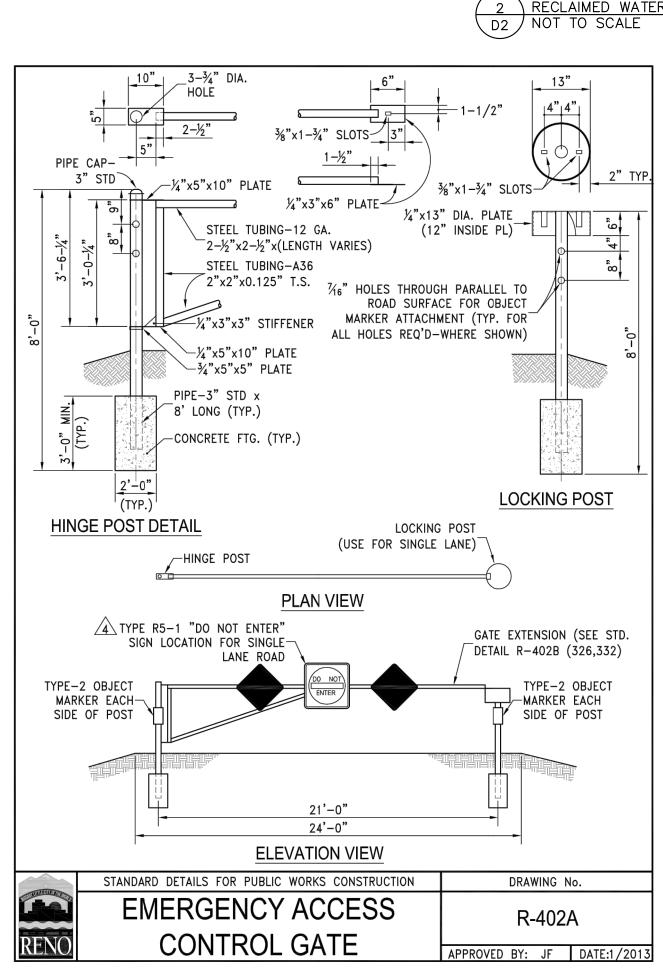
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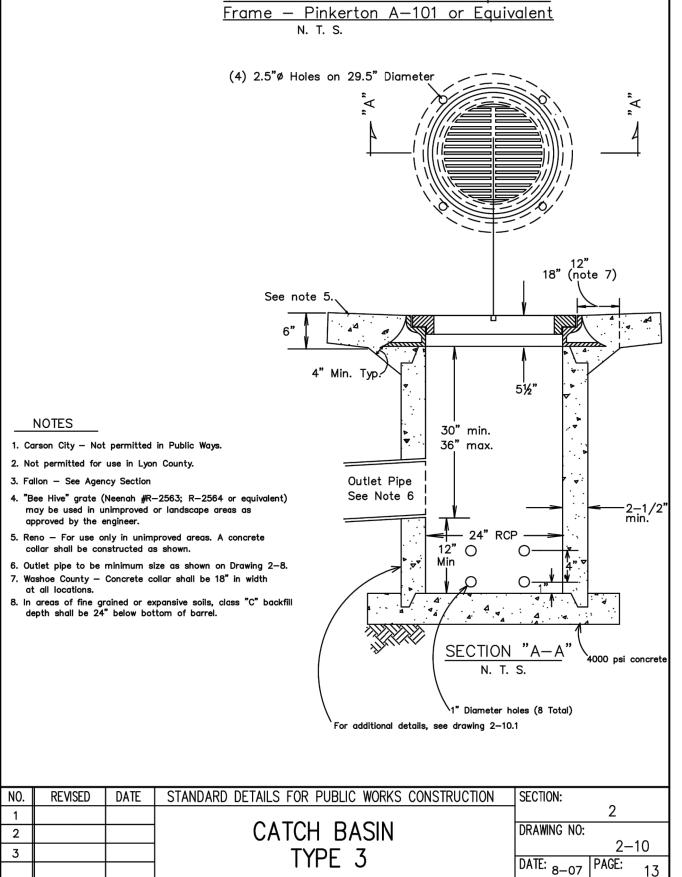
SHEET NUMBER

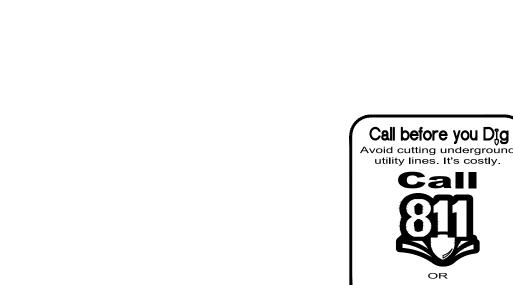
1-800-642-2444





6 GATE
D2 NOT TO SCALE





OF WASHOE COUNTY. THE SUBGRADE SHALL BE INSPECTED AND APPROVED BY WASHOE

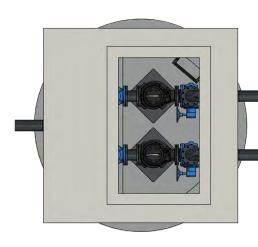
CROSS SECTION FOR CONCRETE SECTION NOT TO SCALE

8. EVAPORATION REDUCERS (SUCH AS CONFLIM) SHALL BE APPLIED IMMEDIATELY AFTER

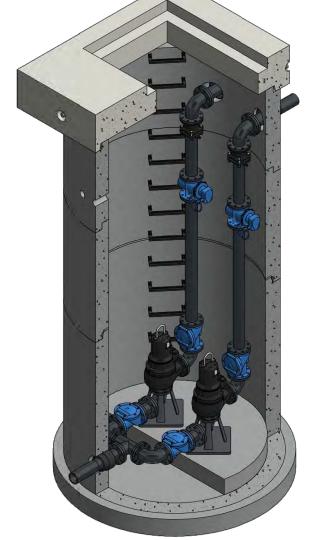
COUNTY PRIOR TO PLACEMENT OF AGGREGATE BASE.

INITIAL CURING.

FIELD CREEK FILL STATION **DUPLEX DRY PIT STATION**



PLAN VIEW NOT TO SCALE

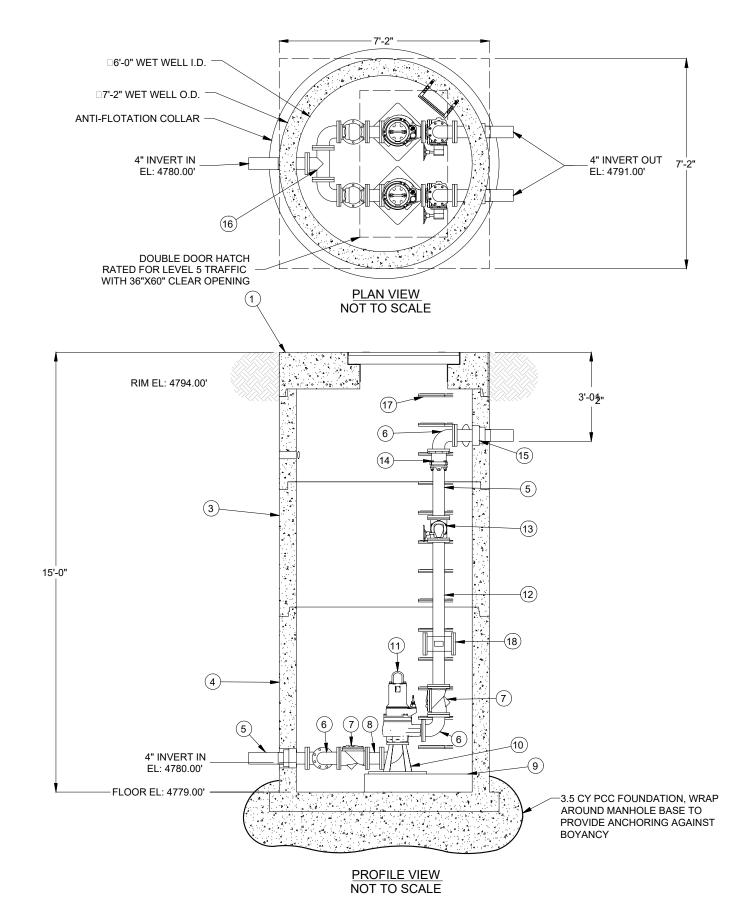


TOP LEFT ISOMETRIC VIEW w/ SECTION CUT NOT TO SCALE

1 DUPLEX DRY PIT STATION
D3 NOT TO SCALE



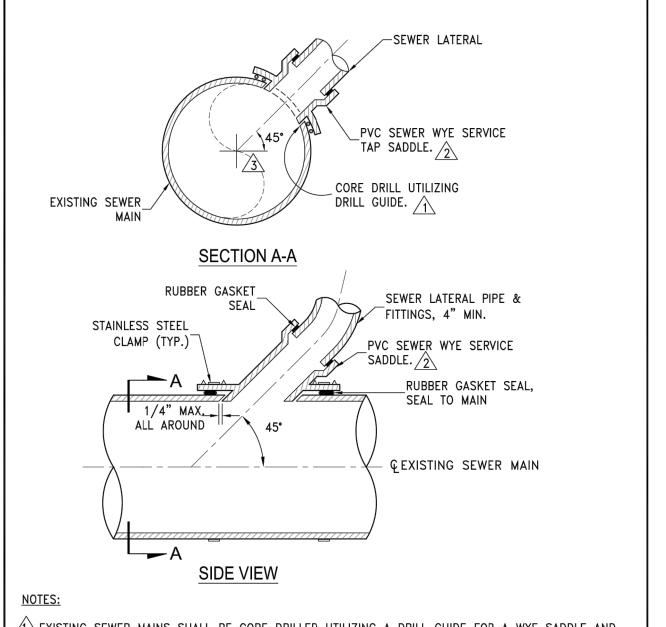
PROFILE VIEW NOT TO SCALE



		BILL OF MATERIALS		
ITEM	QTY	DESCRIPTION		
1	1	MANHOLE D7286x15 FLAT TOP 3660 E		
2	1	72IN MANHOLE FLAT TOP		
3	3	72IN MANHOLE BARREL		
4	1	72IN MANHOLE BASE		
5	5	PIPE 4IN FLG X PE DUCTILE IRON SPOOL 2FT		
6	8	90 DEG ELBOW 4IN DUCTILE IRON FLG		
7	4	SWING CHECK VALVE 4IN VAL-MATIC 504A		
8	2	PIPE 4IN FLG X FLG DUCTILE IRON SPOOL 6IN		
9	1	PUMP PEDESTAL		
10	2	PUMP STAND		
11	2	SUBMERSIBLE PUMP HOMA AMX446-190/2.8T/C		
12	2	PIPE 4IN FLG X FLG DUCTILE IRON SPOOL 5FT		
13	2	PLUG VALVE 4IN FLG W/ HANDWHEEL FBE INT AND EXT VAL-MATIC		
		5804RXF/7A08		
14	2	RFCA 4IN W/ SS HARDWARE ROMAC		
15	3	CONNECTOR BOOT S106-8SRWS CORE-SEAL ASTM C923/C1644 WEDG		
		SDR-35 HOLE-8 4.20-6.40		
16	1	TEE 4IN DUCTILE IRON		
17	14	LADDER STEP RUNG POLYMER MH ASTM-C-478 9-3/16 X 13IN PS2-PF-D		
18	2	ELECTRIC OPERATOR 6" WATER SPECIALTIES MODEL ML04D FLOW MI		

PUMP CHARACTERISTICS				
DESCRIPTION	VALUE			
DUTY POINT	200 gpm @ 60.5' TDH			
MANUFACTURER	НОМА			
MODEL NUMBER	AVX444-210/13.0ET			
PUMP TYPE	VERTICAL DRY INSTALLATION			
MOTOR SIZE	13 HP			
REQUIRED POWER SUPPLY	230 V / 3 Phase / 31.6 Amps			

NOTE: DUPLEX DRY PIT STATION TO BE COMPLETE PACKAGE AS SHOWN OR ENGINEER APPROVED EQUAL CAPABLE OF PRODUCING 200 GPM @ 60.5' TDH WITH A SUPPLY SUCTION DEPTH OF APPROXIMATELY 14' BELOW EXISTING GRADE.



A CORE DRILL WITH A LENGTH EXCEEDING THE LATERAL DIAMETER, INSERT—A—DRILL IDY75 & EXTRA LONG HOLE SAW OR APPROVED EQUAL. DIAMOND CORE BITS SHALL BE USED ON NON—PVC MAINS.

2. SERVICE TAP SADDLES SHALL BE PVC SEWER WYE SADDLES. A ROMAC STYLE "CB" SEWER SADDLE OR APPROVED EQUAL MAY BE USED ON EXISTING SEWER MAINS ONLY WHEN MAIN IS NOT PVC.

 $\sqrt{3}$ SADDLES SHALL BE INSTALLED AT 45 DEGREES TO MAIN AS SHOWN IN SECTION A-A. IN NO CASE SHALL A LATERAL CONNECTING TO THE EXISTING SEWER MAIN BE LOCATED DIRECTLY ON TOP OF THE PIPE, NOR SHALL IT MATCH THE FLOWLINE OF THE PIPE.

	STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION	DRAWING No.		
	SANITARY SEWER	R-224C		
RENO	TAP SADDLE	APPROVED BY: JF DATE: 1/2013		

2 SANITARY SEWER TAP SADDLE D3 NOT TO SCALE

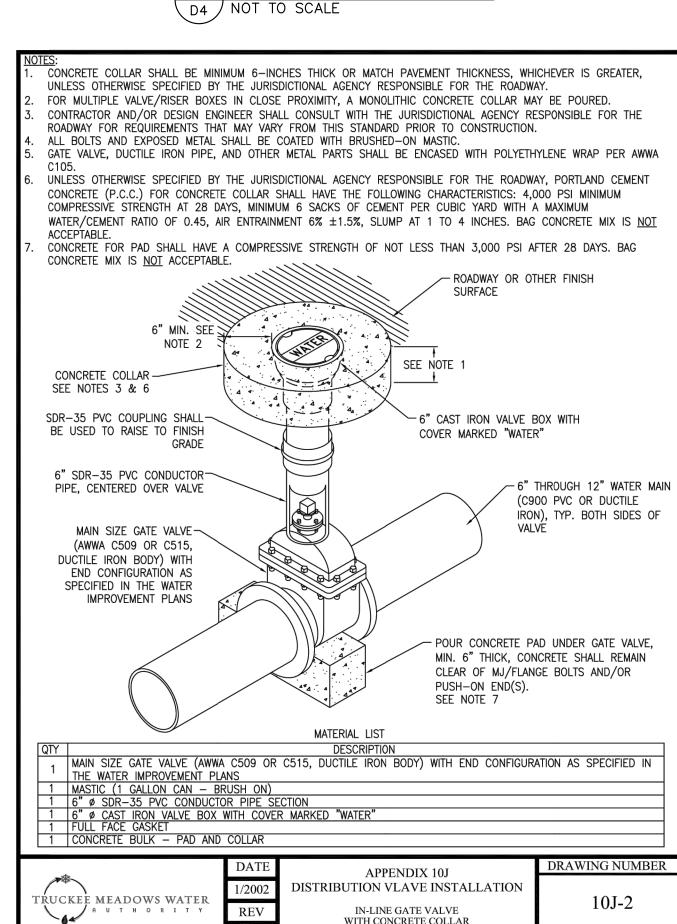
03 **DETAIL**

SHEET NUMBER

EXHIBIT D

Call before you Dig Avoid cutting underground utility lines. It's costly. Call 1-800-642-2444

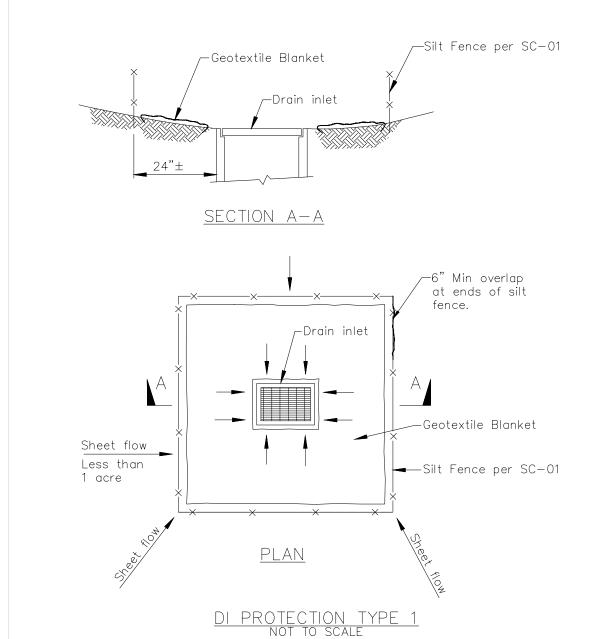




4 IN-LINE GATE VALVE WITH CONCRETE COLLAR NOT TO SCALE

Storm Drain Inlet Protection

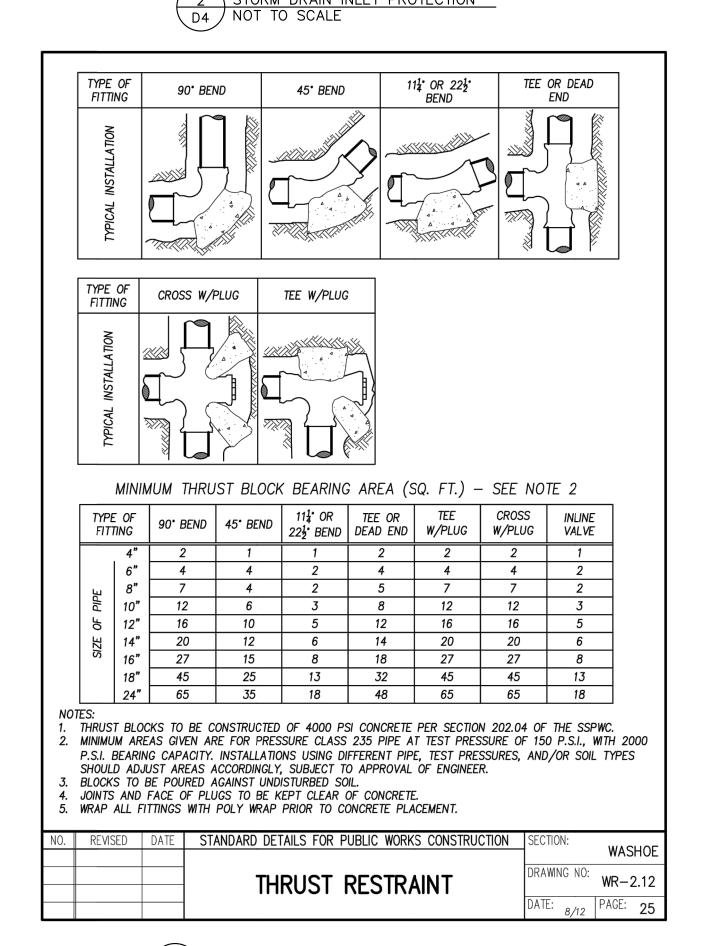
SC-8



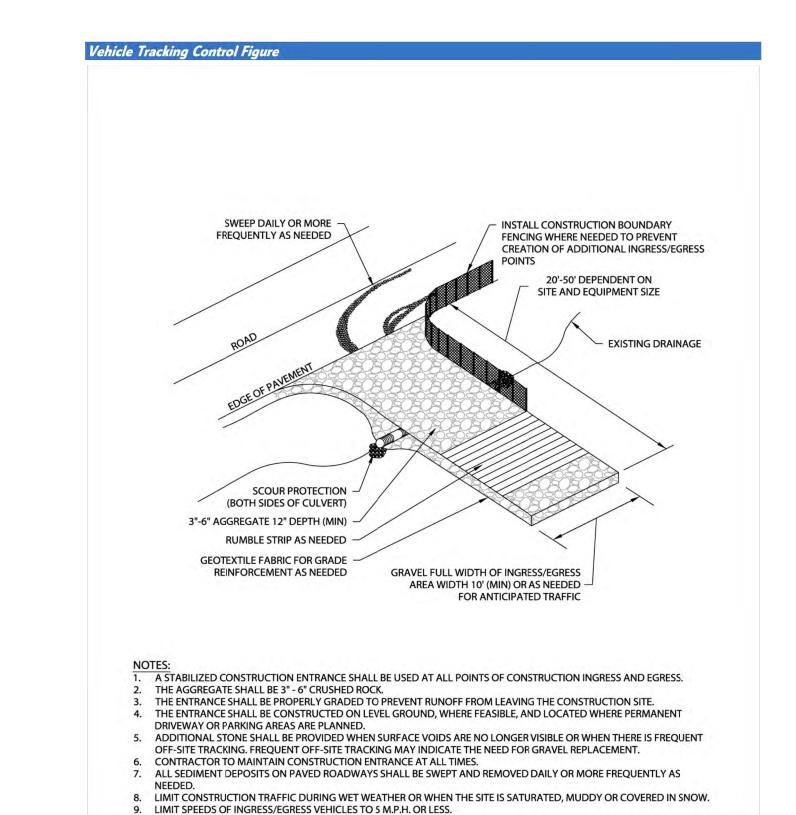
NOTES:

- 1. For use in areas where grading has been completed and final soil stabilization
- and seeding are pending. 2. Not applicable in paved areas.
- 3. Not applicable with concentrated flows.





TO SCALE



THE TAHOE REGIONAL PLANNING AGENCY (TRPA) SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS DETAIL.

Chapter 4: BMP Toolkit 4.5-h Vehicle Ingress Egress Management

TRPA BMP Handbook May 2014

CONSTRUCTION ENTRANCE

05/03/202

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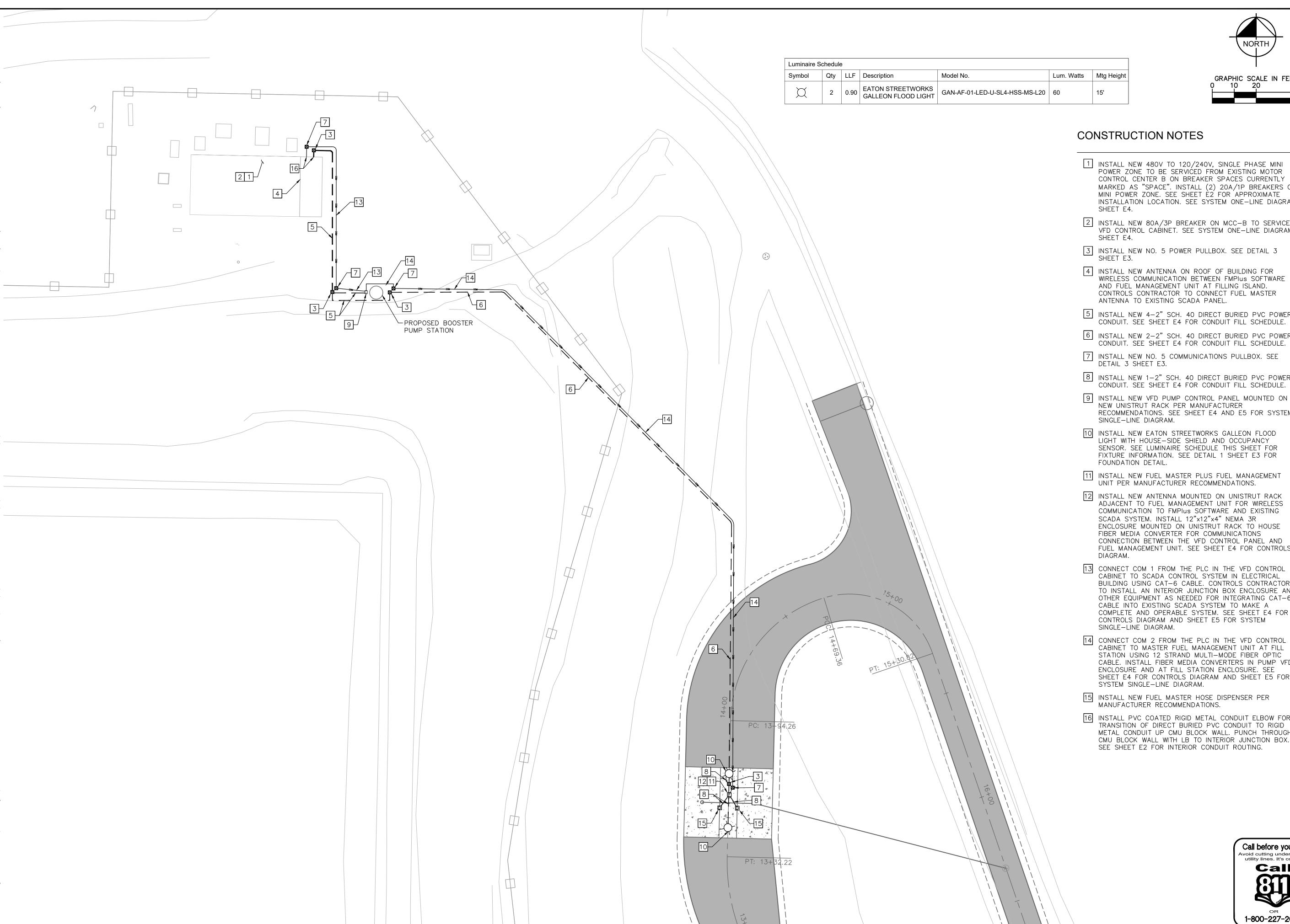
Call before you Djg

void cutting undergrou utility lines. It's costly.

Call

1-800-642-2444

SHEET NUMBER **D4**



1 INSTALL NEW 480V TO 120/240V, SINGLE PHASE MINI POWER ZONE TO BE SERVICED FROM EXISTING MOTOR CONTROL CENTER B ON BREAKER SPACES CURRENTLY MARKED AS "SPACE". INSTALL (2) 20A/1P BREAKERS ON MINI POWER ZONE. SEE SHEET È2 FOR APPROXIMATE INSTALLATION LOCATION. SEE SYSTEM ONE-LINE DIAGRAM

2 INSTALL NEW 80A/3P BREAKER ON MCC-B TO SERVICE VFD CONTROL CABINET. SEE SYSTEM ONE-LINE DIAGRAM

3 INSTALL NEW NO. 5 POWER PULLBOX. SEE DETAIL 3

4 INSTALL NEW ANTENNA ON ROOF OF BUILDING FOR WIRELESS COMMUNICATION BETWEEN FMPlus SOFTWARE AND FUEL MANAGEMENT UNIT AT FILLING ISLAND. CONTROLS CONTRACTOR TO CONNECT FUEL MASTER

5 INSTALL NEW 4-2" SCH. 40 DIRECT BURIED PVC POWER CONDUIT. SEE SHEET E4 FOR CONDUIT FILL SCHEDULE.

6 INSTALL NEW 2-2" SCH. 40 DIRECT BURIED PVC POWER CONDUIT. SEE SHEET E4 FOR CONDUIT FILL SCHEDULE.

7 INSTALL NEW NO. 5 COMMUNICATIONS PULLBOX. SEE

8 INSTALL NEW 1-2" SCH. 40 DIRECT BURIED PVC POWER CONDUIT. SEE SHEET E4 FOR CONDUIT FILL SCHEDULE.

RECOMMENDATIONS. SEE SHEET E4 AND E5 FOR SYSTEM

10 INSTALL NEW EATON STREETWORKS GALLEON FLOOD LIGHT WITH HOUSE-SIDE SHIELD AND OCCUPANCY SENSOR. SEE LUMINAIRE SCHEDULE THIS SHEET FOR FIXTURE INFORMATION. SEE DETAIL 1 SHEET E3 FOR

12 INSTALL NEW ANTENNA MOUNTED ON UNISTRUT RACK ADJACENT TO FUEL MANAGEMENT UNIT FOR WIRELESS COMMUNICATION TO FMPIus SOFTWARE AND EXISTING SCADA SYSTEM. INSTALL 12"x12"x4" NEMA 3R ENCLOSURE MOUNTED ON UNISTRUT RACK TO HOUSE FIBER MEDIA CONVERTER FOR COMMUNICATIONS CONNECTION BETWEEN THE VFD CONTROL PANEL AND FUEL MANAGEMENT UNIT. SEE SHEET E4 FOR CONTROLS

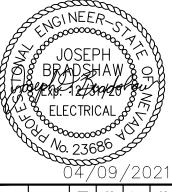
13 CONNECT COM 1 FROM THE PLC IN THE VFD CONTROL CABINET TO SCADA CONTROL SYSTEM IN ELECTRICAL BUILDING USING CAT-6 CABLE. CONTROLS CONTRACTOR TO INSTALL AN INTERIOR JUNCTION BOX ENCLOSURE AND OTHER EQUIPMENT AS NEEDED FOR INTEGRATING CAT-6 CABLE INTO EXISTING SCADA SYSTEM TO MAKE A COMPLETE AND OPERABLE SYSTEM. SEE SHEET E4 FOR CONTROLS DIAGRAM AND SHEET E5 FOR SYSTEM

14 CONNECT COM 2 FROM THE PLC IN THE VFD CONTROL CABINET TO MASTER FUEL MANAGEMENT UNIT AT FILL STATION USING 12 STRAND MULTI-MODE FIBER OPTIC CABLE. INSTALL FIBER MEDIA CONVERTERS IN PUMP VFD ENCLOSURE AND AT FILL STATION ENCLOSURE. SEE SHEET E4 FOR CONTROLS DIAGRAM AND SHEET E5 FOR

15 INSTALL NEW FUEL MASTER HOSE DISPENSER PER

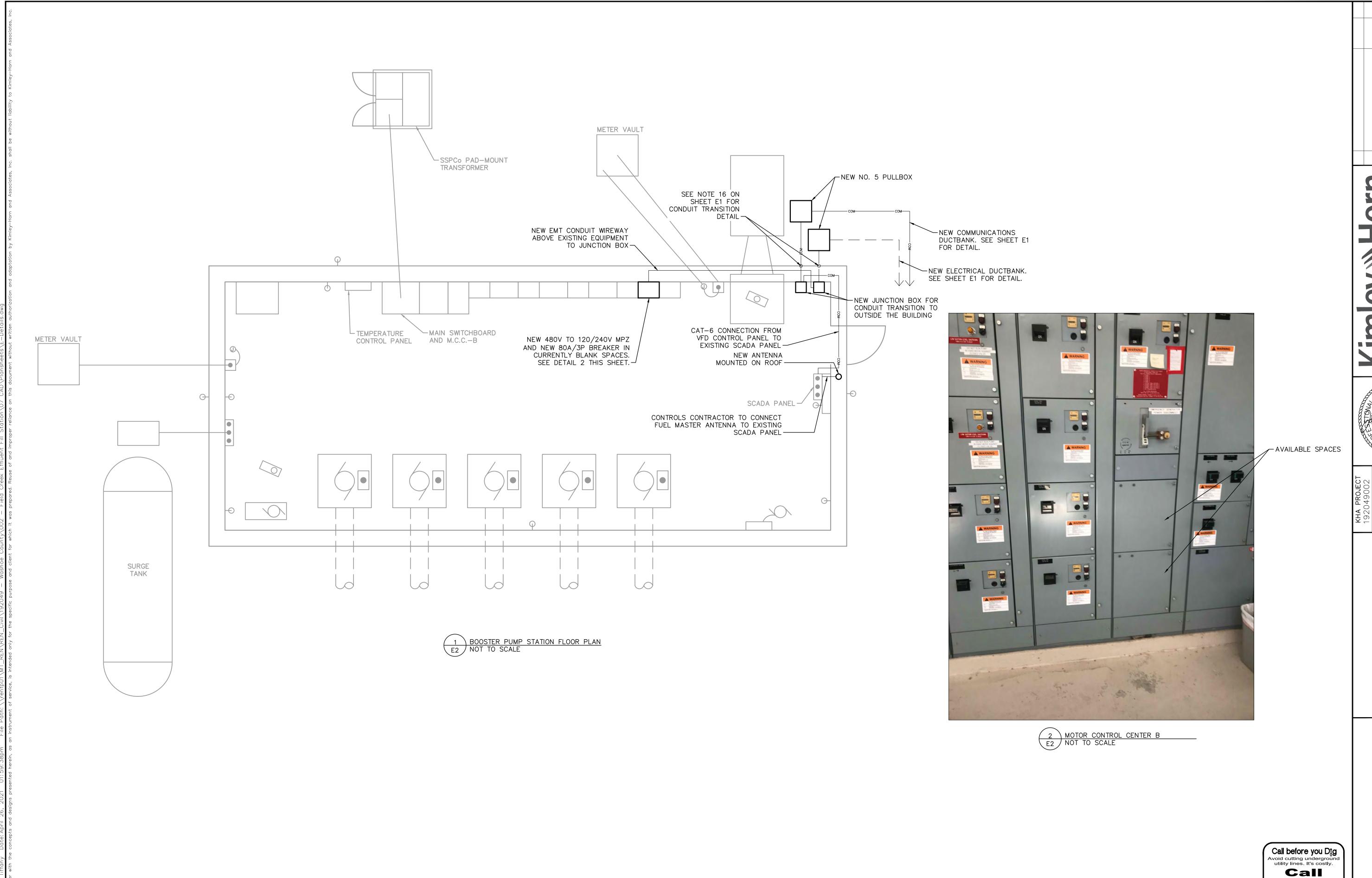
16 INSTALL PVC COATED RIGID METAL CONDUIT ELBOW FOR TRANSITION OF DIRECT BURIED PVC CONDUIT TO RIGID METAL CONDUIT UP CMU BLOCK WALL. PUNCH THROUGH CMU BLOCK WALL WITH LB TO INTERIOR JUNCTION BOX.





7

SHEET NUMBER

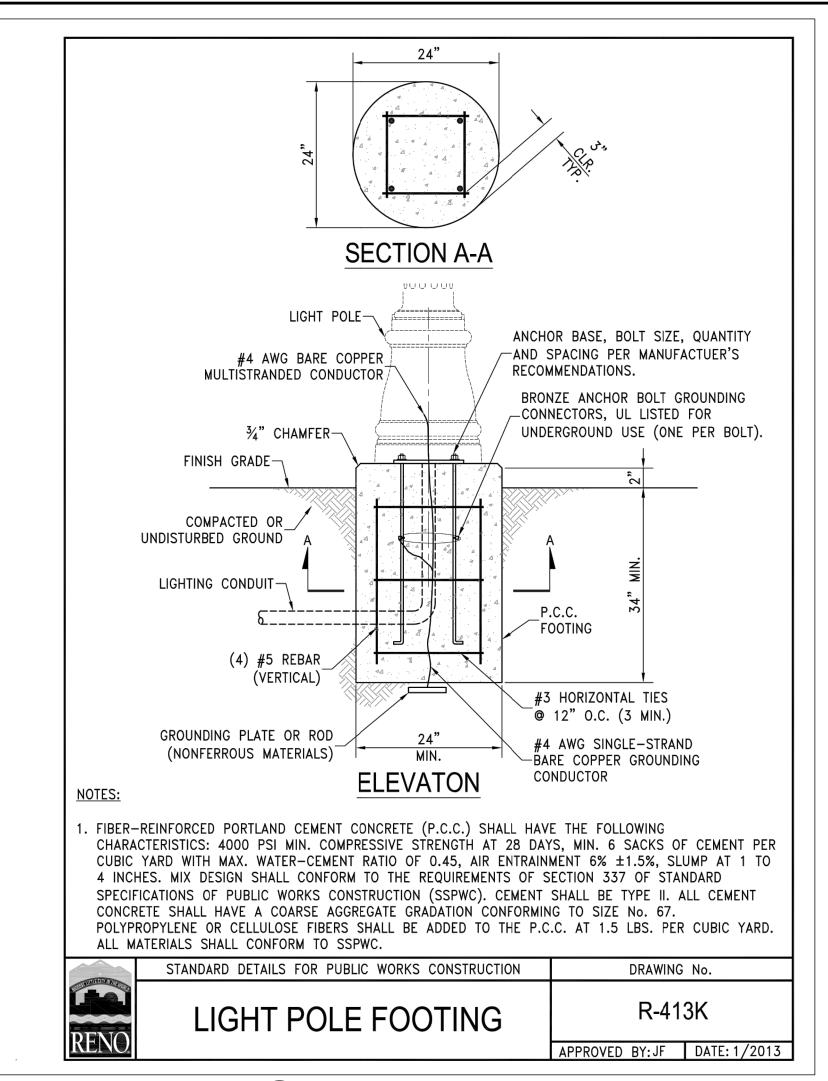


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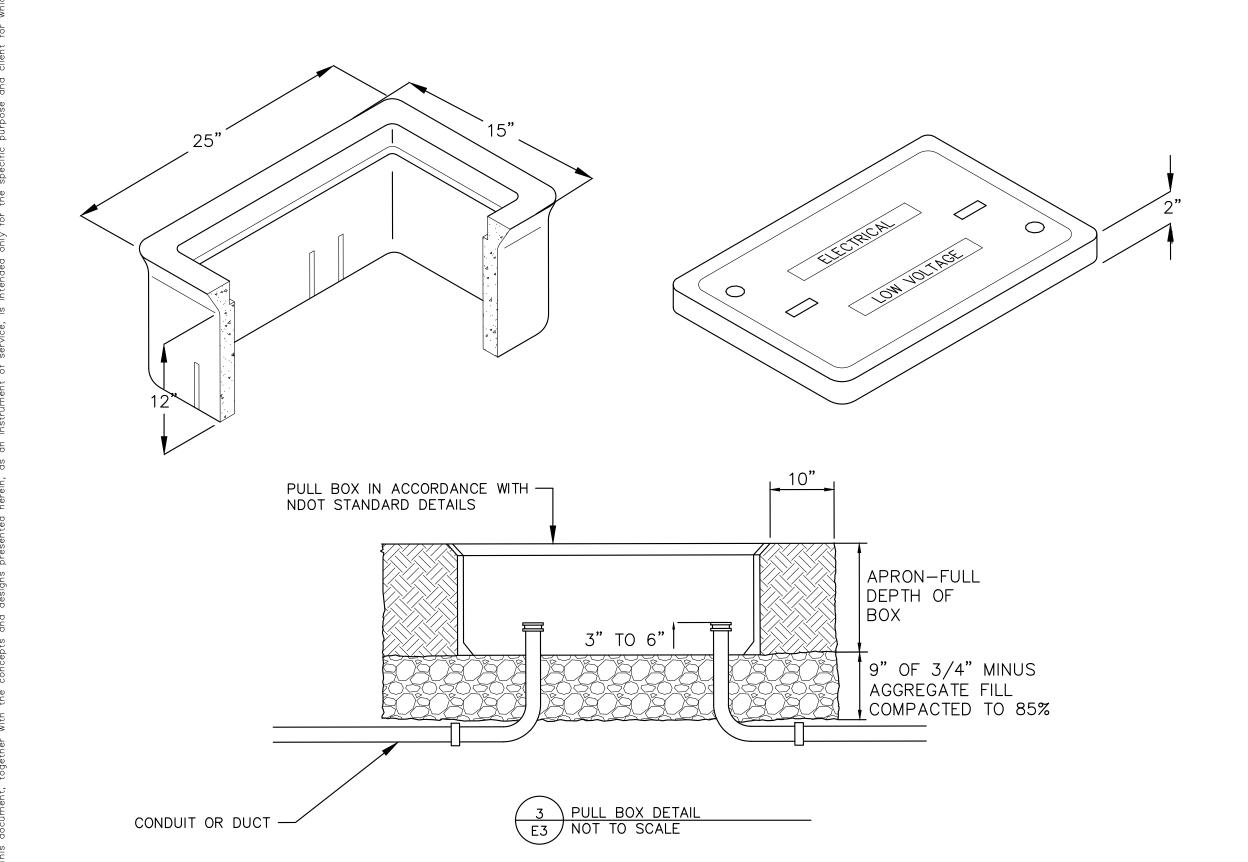
SHEET NUMBER E2

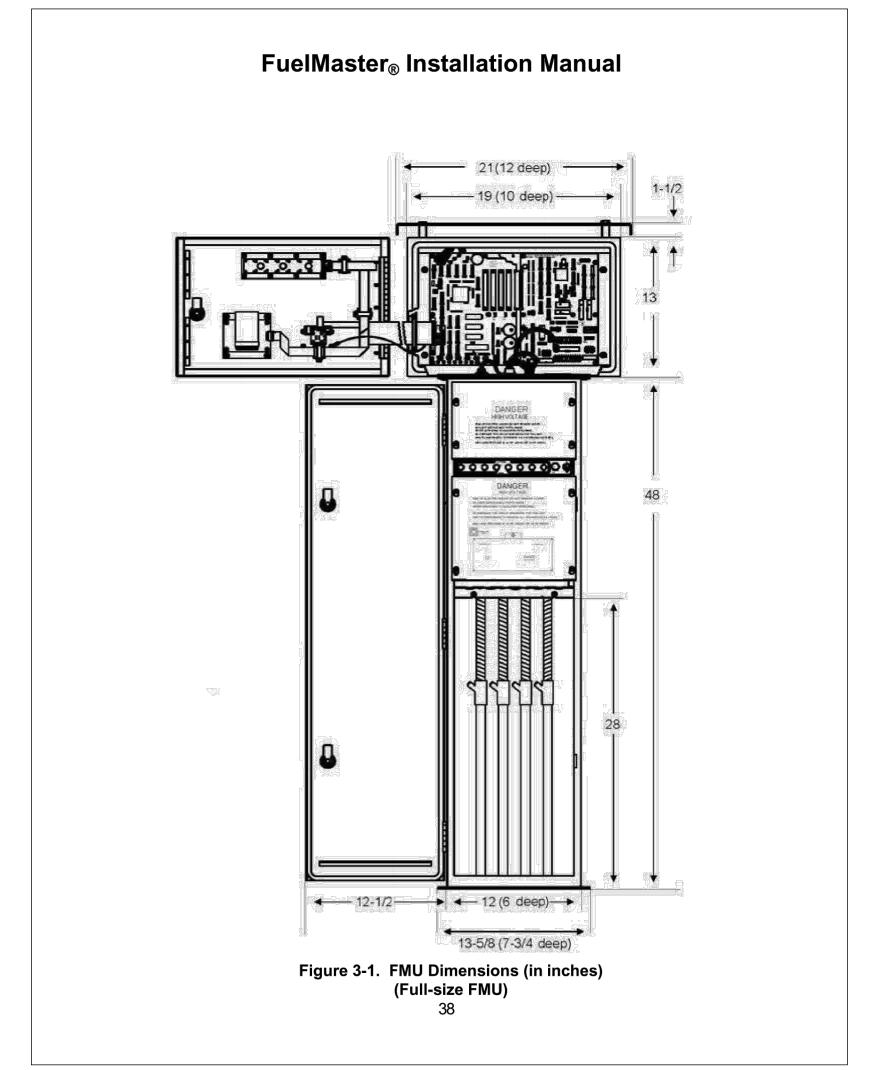
A

ELECTRICAL



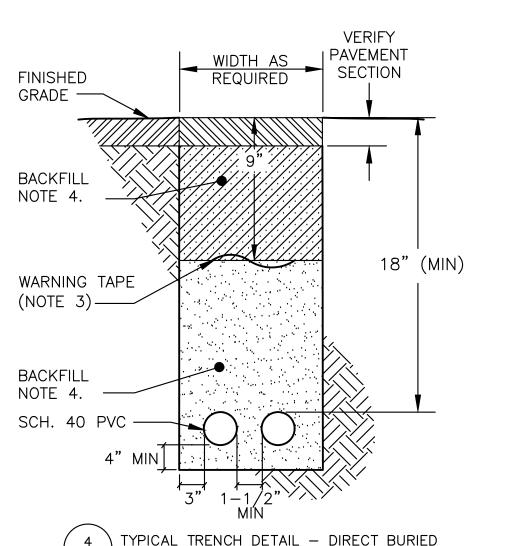
1 LIGHT POLE FOUNDATION DETAIL E3 NOT TO SCALE





2 \ FUEL MASTER UNIT DETAIL E3 NOT TO SCALE

NOTE: SEE FUEL MASTER FUEL MANAGEMENT UNIT (FMU) INSTALLATION MANUAL FOR MORE DETAIL AND FURTHER INSTALLATION DETAILS



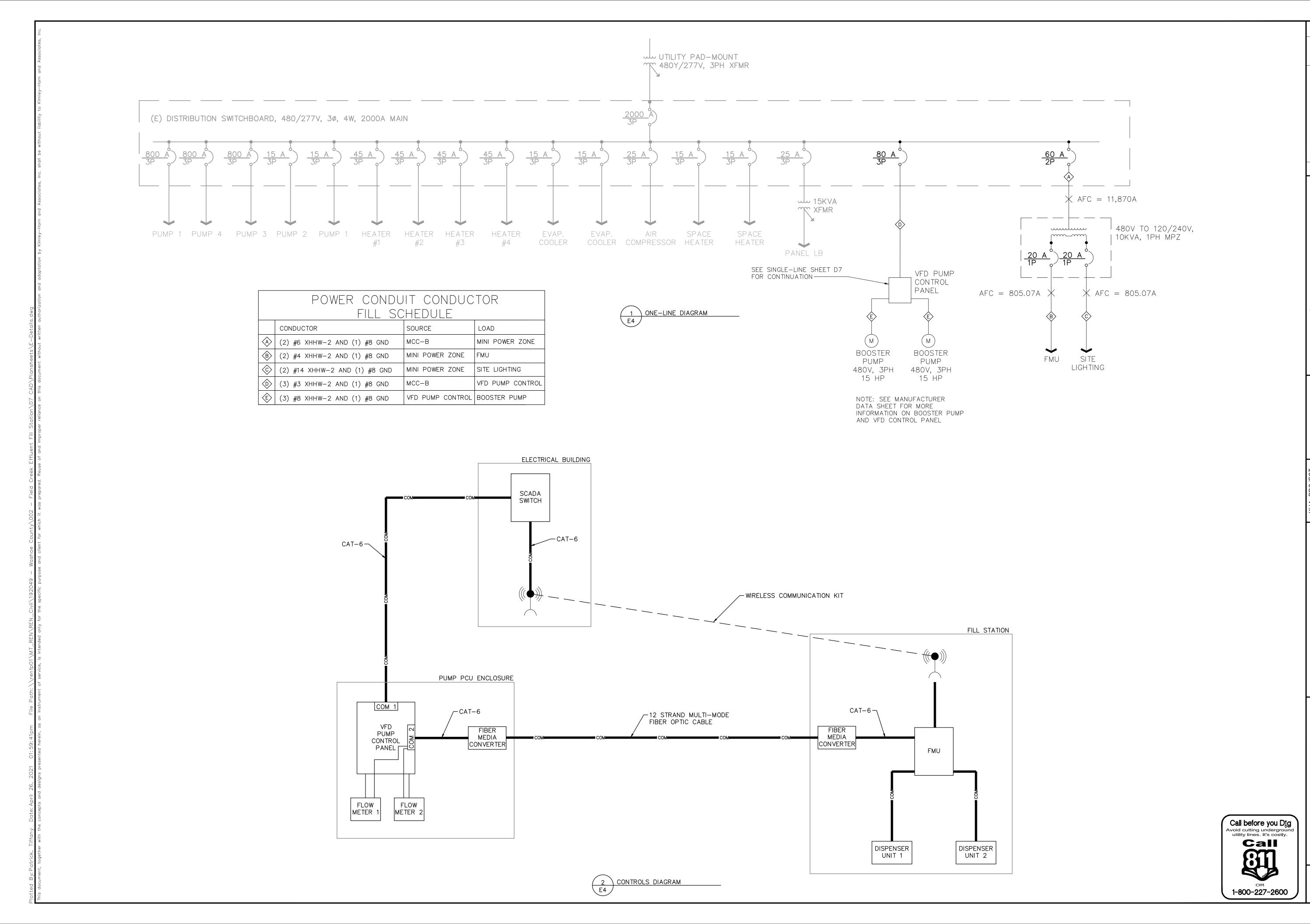
CONDUIT/DUCT & CABLE INSTALLATION NOTES:

- 1. SEE PLANS FOR REQUIRED DUCT SECTIONS. ALL OF THE SECTIONS SHOWN ON THIS DRAWING MAY NOT BE USED ON THIS PROJECT.
- 2. PROVIDE PULL WIRES IN ALL (NEW) UNUSED CONDUITS. PLUG CONDUIT ENDS IN HANDHOLES OR MANHOLES.
- 3. WARNING TAPE REQUIRED IN ALL AREAS.
- 4. BACKFILL NOTES:
- D.B. APPLICATIONS: IN MULTIPLE POURS OF FLOWABLE FILL (AKA SLURRY OR CONTROLLED LOW STRENGTH MATERIAL (CLSM)). FILL TO WARNING TAPE AND THEN TO THE FINISHED GRADE OR BASE OF PAVEMENT W/ FLOWABLE FILL.

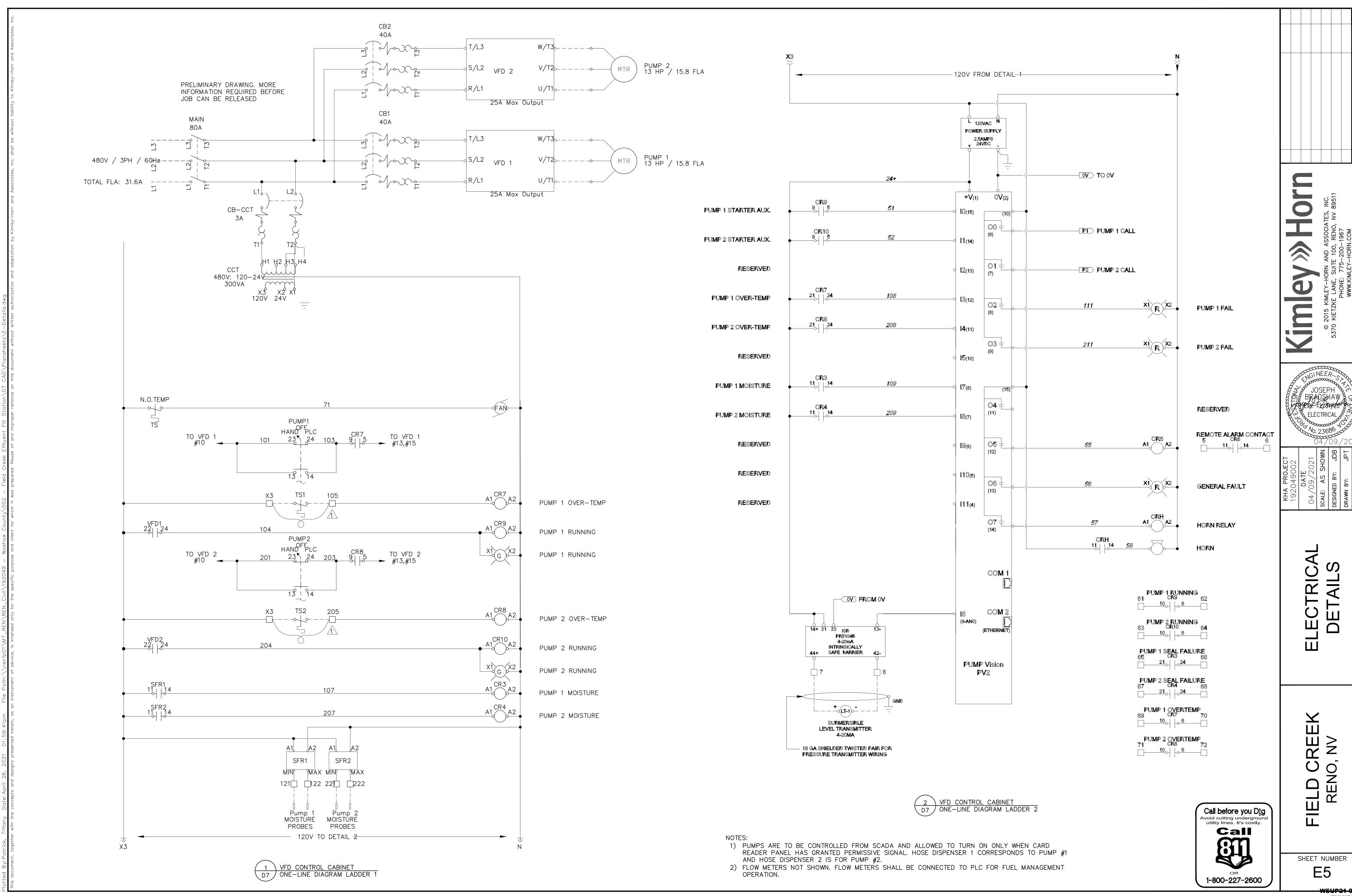


CREEK IO, NV

SHEET NUMBER



SHEET NUMBER E4







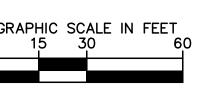
DESCRIPTION

2' Diameter Boulders 3' Diameter Boulders

TREES		
BOTANICAL NAME / COMMON NAME	SIZE	QTY
• Elaeagnus angustifolia Russian Olive	#15	3
Fraxinus quadrangulata Blue Ash	2" Cal.	5
Juniperus occidentalis Western Juniper	#5	14
Juniperus scopulorum 'Pathfinder' Pathfinder Juniper	#5	6
Juniperus scopulorum 'Wichita Blue' Wichita Blue Juniper	#5	5
Picea pungens 'Glauca' Colorado Blue Spruce	5' High	12
Pinus nigra Austrian Black Pine	7' High	9
Pinus sylvestris Scots Pine	7' High	1
MATERIALS		



28 33





FIELD CREE EFFLUENT FILL STATIC

ANDSCAPE

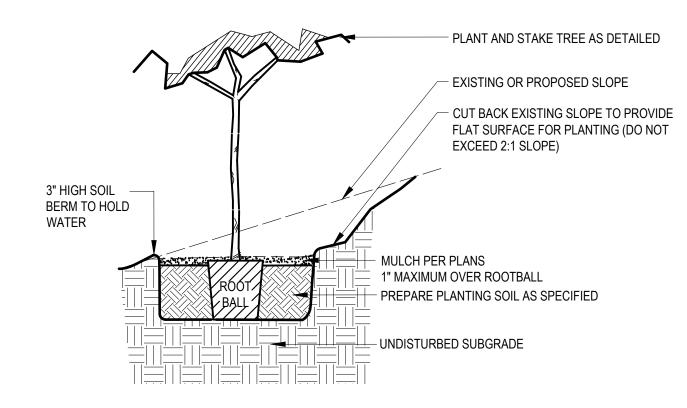
SHEET NUMBER

NSUP21 0034 EXHIBIT D

NOTE: REMOVE BURLAP, WIRE AND STRAPS (ANYTHING THAT COULD GIRDLE TREE OR RESTRICT ROOT GROWTH) PLAN VIEW - 14 GAUGE, ANNEALED STEEL GUY WIRE INSIDE 1/2" I.D. BLACK RUBBER HOSE AND TWISTED CLOSED AT ENDS TREE TRUNK TREE STAKE, TYP. - ENDS OF WIRE ON INSIDE OF STAKE — 3/4" Ø VINYL OR 2-PLY FABRIC BEARING RUBBER HOSE. 8" MIN. Ø LOOP AROUND TRUNK. 14 GAUGE, ANNEALED STEEL GUY WIRE. STAPLE ENDS TO INSIDE OF TREE STAKE. ADJUST TENSION BY TURNING WIRE PAIRS FROM THE MIDDLE 8' x 2" TREATED LODGE POLE PINE TREE STAKES, TWO (2) PER TREE; AVOID PENETRATING ROOT BALL 2' MIN. MULCH PER PLANS 1" MAXIMUM OVER ROOTBALL 3' MAX ____ 18" | 2' MIN. ___ MIN. | FINISHED GRADE CREATE TREE WELL AROUND BASE OF TREE AT DRIPLINE TOP OF ROOTBALL TO MATCH FINISH GRADE OF SURFACE MULCH PREPARED SOIL BACKFILL, SEE SPECIFICATIONS - FERTILIZER TABLETS PER SPECIFICATIONS UNDISTURBED SUBGRADE NOTE: IN HARD SOIL CONDITIONS, CREATE 'CHIMNEYS' (MIN. 3 [EVENLY SPACED, NOT DIRECTLY BENEATH ROOTBALL] @ 18"

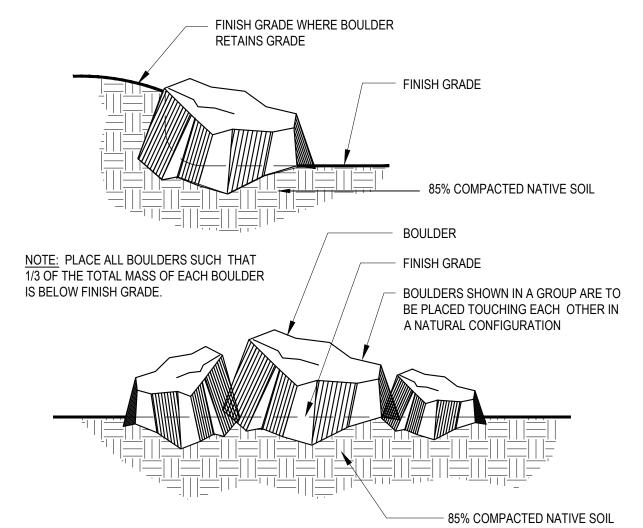
DEEP) TO PROMOTE DRAINAGE

TREE PLANTING AND STAKING



TREE PLANTING ON SLOPE

SCALE: N.T.S.



BOULDER INSTALLATION

SCALE: N.T.S.

Call before you Dig

Avoid cutting underground
utility lines. It's costly.

Call

OR

1-800-642-2444

FIELD CREEK
EFFLUENT
FILL STATION

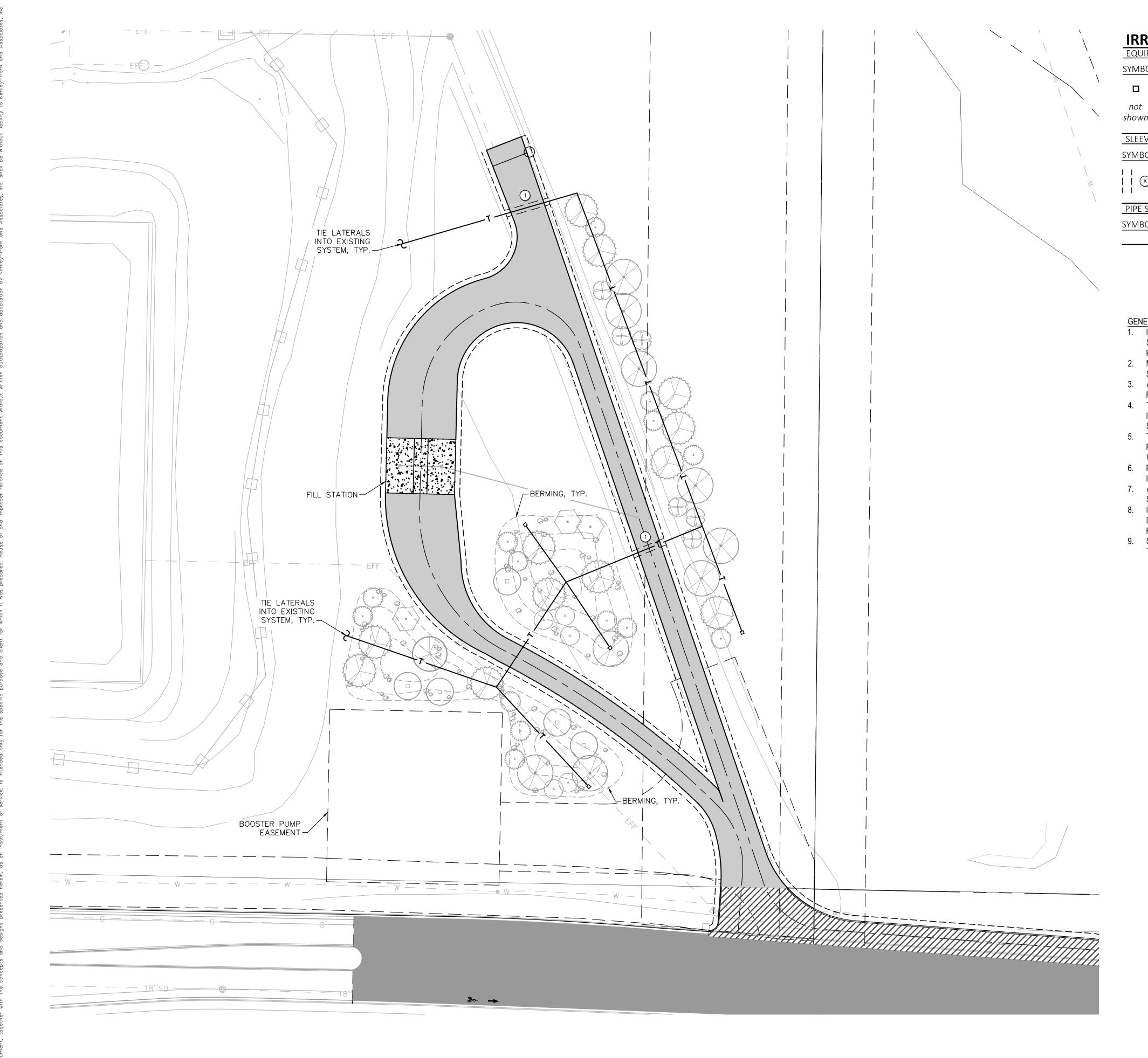
SHEET NUMBER

21 UZ:UU:U4pm FII.e Matn: (Nentpol (MI_KEN_CIVII (192049 — Wasnoe County/UUZ — FIEIA Creek Efflu presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of a

SH

VSUP21-0034 EXHIBIT D

04/09/2021





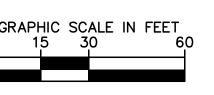
INNIC	IAHUN	LEGEND			
EQUIPM	ENT				
SYMBOL	MANUFACTURER / DESCRIPTION			QTY	
	Flush End (4			
not shown	Rain Bird X Rain Bird X	AS REQ'D AS REQ'D			
SLEEVE S	CHEDULE				
SYMBOL	DESCRIPTION	<u>NC</u>			<u>QTY</u>
	Schedule 4 "X" Indicate	50 LF			
PIPE SCH	EDULE				
SYMBOL		SIZE / DESCRIF	PTION		QTY
	т ———	1" SCH 40 PVC	Tree Lateral		815 LF
		Flow (GPM) 0-5.0 5.1-10 10.1-15	Pipe Size 1/2" 3/4" 1"	Pipe Class SCH 40 PVC SCH 40 PVC SCH 40 PVC	

GENERAL IRRIGATION NOTES:

- 1. IRRIGATION EQUIPMENT IS SHOWN DIAGRAMMATICALLY. ALL EQUIPMENT AND PIPING SHALL BE PLACED WITHIN LANDSCAPE AREAS. AVOID CONFLICTS WITH UTILITIES AND PLANT MATERIALS, TYP.
- MULTIPLE VALVE OF THE SAME TYPE MAY BE RUN SIMULTANEOUSLY. HOWEVER, SYSTEM SHALL NOT EXCEED 12.0 GPM AT ANY GIVEN TIME.
- 3. ALL IRRIGATION COMPONENTS SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF LOCAL GOVERNING AUTHORITIES.
- 4. THE INTENT OF THE PLANS IS FOR THE INSTALLATION OF A COMPLETE AND WORKABLE IRRIGATION SYSTEM. PROVIDE ALL MATERIALS AND INSTALLATION TECHNIQUES NOT SPECIFICALLY NOTED BUT REASONABLY INFERRED FOR THE WORK.
- 5. THE PLAN IS SCHEMATIC, SOME RELOCATION OF IRRIGATION COMPONENTS MAY BE REQUIRED IN THE FIELD. VERIFY ALL CONDITIONS IN THE FIELD THAT MAY AFFECT THE WORK
- 6. PROVIDE DRIP IRRIGATION TO ALL PLANT MATERIAL TO BE INSTALLED ON THE PROJECT, INCLUDING EXISTING TREES AND SHRUBS TO BE RETAINED.
- 7. ALL LINES AND WIRING UNDER PAVED SURFACES SHALL BE SLEEVED, SEE
- SPECIFICATIONS. LINES AND WIRING SHALL HAVE SEPARATE SLEEVES.

 8. INSTALL ADEQUATE MANUAL DRAINS ON MAIN LINE TO PREVENT FREEZE RELATED
- DAMAGE. PROVIDE DRAINS WITH HOSE ON THE END OF EACH MAIN LINE TO FACILITATE REMOVAL OF WATER WITH COMPRESSED AIR.
- 9. SEE SPECIFICATIONS FOR ALL ASPECTS OF IRRIGATION EQUIPMENT AND INSTALLATION TECHNIQUES.





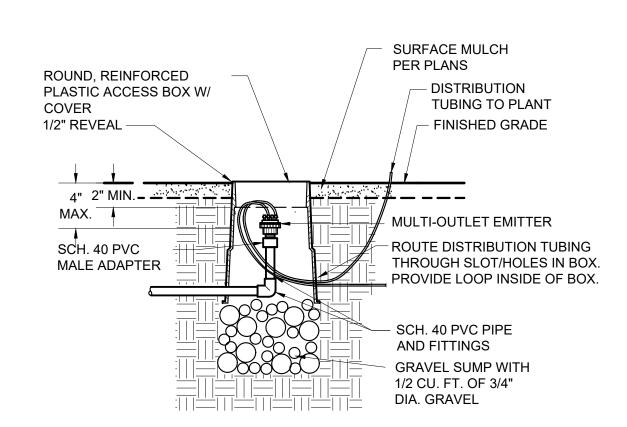


FIELD
SHEET SHEEL SHEEL

WSUP24 0034 EXHIBIT D

| 192049002 | 192049002 | DATE | 04 | 09 | 2021 | SCALE: AS SHOWN | DESIGNED BY: GMW | CMW | CMW | CMW | CMW | CHECKED BY: ACP | CHECKED B

IRRIGATION PLAN



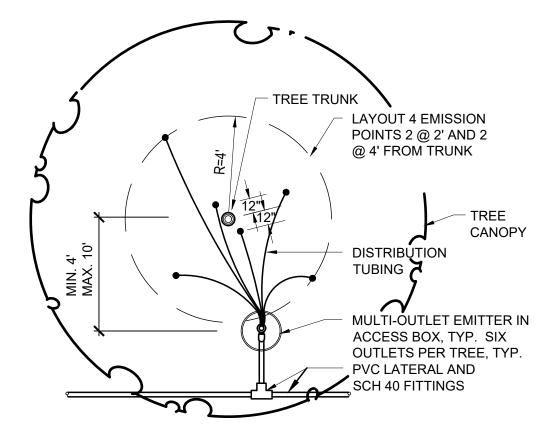
MULTI-OUTLET EMITTER

SELECT BACKFILL SHALL BE SAND OR SOIL FREE OF ROCKS AND STONES LARGER THAN 1/4" DIA. 2. BACKFILL MATERIAL SHALL BE WATERED IN AND COMPACTED TO DENSITY OF ADJACENT UNDISTURBED SOIL. — FINISHED GRADE — DETECTABLE MARKING TAPE EXCAVATED SOIL, 12" MIN. REPLACED AND PVC LATERAL/ COMPACTED DRIP SYSTEM - SELECT BACKFILL 3" MIN. **HEADER PIPE** - LATERAL PIPE ALL SIDES - FINISHED GRADE DETECTABLE MAINLINE MARKING TAPE - EXCAVATED SOIL, **PVC MAINLINES** MIN. REPLACED AND AND LOW COMPACTED VOLTAGE - SAND BEDDING CONTROL WIRES CONTROL WIRES MAINLINE PIPE 3"MIN. -→ SIDES AND TOP OF PIPE

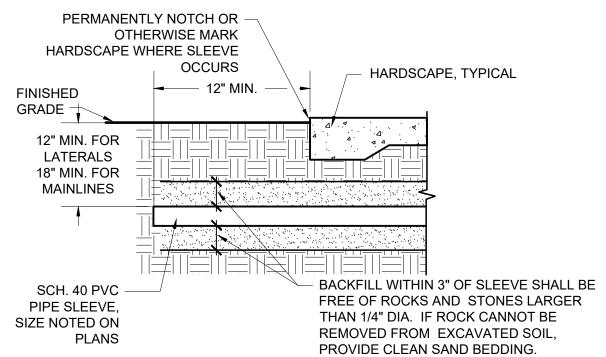
PIPE TRENCHING AND BACKFILL - MAINLINE, LATERALS, AND MARKING TAPE

1. LENGTH OF DISTRIBUTION TUBING SHALL NOT EXCEED 12'-0". REFER TO LOCAL JURISDICTIONAL REQUIREMENTS; MAXIMUM ALLOWABLE LENGTH MAY BE LESS. 2. LAYOUT DISTRIBUTION TUBING AS SHOWN AND LOCATE

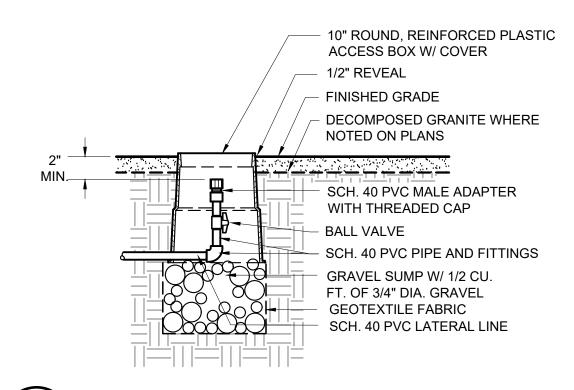
DISCHARGE POINT 2" ABOVE FINISHED GRADE.



EMITTER DISTRIBUTION TUBING LAYOUT - TREES



MAINLINE AND LATERAL PIPE SLEEVING SCALE: N.T.S



LATERAL FLUSHING END CAP

DETAIL

D CREEK -LUENT STATION ENO, NV FELD (EFFL)

> SHEET NUMBER L4

EXHIBIT D

Call before you Dig Avoid cutting underground utility lines. It's costly. Call 1-800-642-2444



30701 DESCRIPTION

This work shall consist of furnishing all labor, equipment and materials necessary to install, test and document a workable domestic water and irrigation system according to the drawings.

The irrigation layout shown on the drawings is schematic only. The actual layout of piping in the field shall be done to minimize sharp turns and piping under paving and maximize the use of common trenching wherever possible for mains and lateral lines. Locate all electric remote control valves and quick coupler valves in planting areas. Arrange control valves close together for ease of operation.

30708 POLYVINYL CHLORIDE PIPE

PVC (polyvinyl chloride) pipe for the landscape irrigation system shall conform to ASTM D2241 and shall be sized as indicated on the drawings. All PVC pipe shall be Schedule 40. Pipe shall be cut straight and true and ends shall be reamed out to the full inside diameter of the pipe. PVC pipe shall be partially backfilled between joints with small amounts of backfill material to prevent movement during the pressure test. All mainline piping shall be covered with a purple warning tape, located 12 inches above the main.

Prolonged exposure to temperatures near freezing make PVC sensitive to impact, and extra care shall be taken in handling PVC during cold weather. PVC lengths shall be lifted off of truck body surfaces to avoid abrasion.

All PVC fittings shall be Schedule 40. Slip fittings shall be joined using PVC cement and solvent applied according to manufacturer's instructions. Pipe and fittings shall be coated on mating surfaces with PVC primer and allowed to dry before applying cements. Primer shall not be allowed to run down the inside of pipe. Allow cement to air dry to a tacky state before assembly. Pipe fittings shall be pressed together and given a quarter (1/4) turn to seat fully, with excess cement being removed from the connection following assembly.

Threaded male fittings shall receive two (2) turns teflon plumbing tape around all threads prior to assembly. No field threading will be allowed. Irrigation mains to be installed at 34" depth.

307.11.01 Controller

Solid state electrical mechanical controller shall accommodate 117 VAC input and 24 VAC output. A circuit breaker or fusible connection shall be installed to protect the controller from overloads. Controller shall be a Rainbird ESP-Lit 6 station. Make all electrical connections as reauired.

307.11.02 Drip Irrigation

Tubing shall be Rainbird Xeri-tube 100, or approved equal, polyethelene. Emitters shall be Rainbird XB-10 for shrubs (2 each), and XB-20 (3 each) for trees. Emitters shall be above ground. Bury flex tubing 4 inches below finish grade. Valve shall be a Rainbird 1? PESB series. Filter shall be a Rainbird RBY-200 MX with PSI-L30X pressure regulator. End plugs shall be placed at the end of each drip line and located inside of a 97 valve box.

307.11.04 Gate Valves

Gate Valves shall be the same size as the pipe on which they are placed unless otherwise indicated on the Plans. Valves two and one-half inches (2 1/2") and smaller shall be bronze with a threaded connection. Valves three inches (3") and larger shall be iron body, bronze mounted, double disc, parallel seat type with "O" ring seals and shall comply with AWWA Standards.

307.11.05 Quick Coupler Valve

Install quick coupler valves as shown on the Plans and Details. Valve shall be of 2-piece, brass or bronze construction, with a three-quarter inch (3/4*) female bottom connection. Use Rainbird 44NP or approved equal in nine inch (9°) diameter box.

307.16 Pressure Reducer

The pressure reducer shall be a Watts series U5, 1' size, capable of reducing pressure from a 300 psi maximum to a pre-set 50 psi.

307.11.09 Drain Valves

Provide three-quarter inch (3/4") brass gate valve at lowest point of irrigation main. Provide for inch (4°) plastic pipe over valve, gravel sump beneath valve, and a plastic cap to mark valve location. Install according to detail.

307.11.14 Galvanized Steel Pipe

Galvanized steel pipe of the size required shall be used for all above ground applications. All pipe shall have sound, clean cut standard pipe threads, well fitted. All pipe shall be well reamed to the full diameter and burrs removed before assembly.

307.II.IT Installation

Wiring from the controller to the valves shall be done using fourteen (14) gauge, direct burial, copper wire for the control wire and twelve (12) gauge, direct burial, copper wire for the ground wire. Red insulation shall be used to identify the control wire and white insulation shall be used to identify the ground wire. All splices shall be made in valve boxes with DBY connectors or approved equal. Wire shall be placed in the same trench with piping. It shall be gathered and bundled every fifteen to twenty feet (15'-20') and "enaked" from side to side in the trench to provide slack throughout the wiring run.

As Builts

The Contractor shall furnish a complete, to scale, as-built drawing of the irrigation system to the Owner, along with all manufacturer's warranty and instruction information.

The Contractor shall furnish to the Owner three (3) quick coupler keys.

Trenching

All mainline piping shall be buried a minimum of twenty-four inches (24") below finish grade. Lateral lines shall be a minimum of eighteen inches (18") below finish grade.

Trenches shall be backfilled with topsoil which is free of rocks and other debris. Backfill material shall be moistened during backfill operations to prevent future settling.

Flushing 4 Testing

Piping shall be completely flushed of foreign particles before attaching sprinkler heads and drain

After flushing and when valves and quick couplers are in place, all main supply lines shall be tested at one hundred and fifty pounds (150 Lbs.) per square foot, with valves closed. Maintain pressure for a period of eight (8) consecutive hours. All joints showing leaks shall be cleaned, remade and tested.

After flushing, section lines shall be tested with risers capped and drain valves closed. The test shall be made at maximum operating pressure for a period of one (1) hour. All joints showing leaks shall be cleaned, remade and tested.

All testing shall be done in the presence of the Owner's representative prior to backfilling over

307.11.20 Adjusting

The Contractor shall familiarize designated maintenance personnel with the operation and maintenance of the system, including emergency shut-off procedures, the programming and operation of the irrigation controller, and system winterization.

The Contractor shall, for a period of one (1) year from the date of acceptance of the work guarantee the installation and operation of the irrigation system. Any malfunction or defect, which occurs during this time, will be repaired by the Contractor at no additional cost.

307.13 BASIS OF PAYMENT

Basis of payment shall be lump sum for the irrigation system, installed per Plans and Specifications.

Payment for domestic water shall be at the bid unit price per lineal foot for the respective pipes, complete and in place as itemized in the Bid Proposal.

No direct payment shall be made for connections to existing domestic water and irrigation systems. Such compensation shall be included in other items of work.

SECTION 331

LANDSCAPING

33101 DESCRIPTION

This work shall consist of furnishing and planting trees, shrubs and vines where shown on the Plans. This section also covers the provision and installation of materials relating to the landscaping process, including, but not limited to, non-living ground cover, header materials, landscape retaining walls, redwood benches, fertilizers, mulches, tree and tree stakes.

331,02,01 Nomenclature

Nomenclature for plant names and varieties shall be in accordance with the latest edition of "Standardized Plant Names" as prepared by the American Joint Committee on Horticultural Nomenclature.

3310202 Quality of Plant Material

It is the intent of the Specifications that all plant material meet the standards as set forth herein, throughout the life of the Contract. During inspections, all plant material will be judged and rejections shall be based upon these standards.

All plants shall be first-class nursery grown representative of their normal species and shall be true to type or name as shown on the Plans.

All plants shall comply with Federal and State laws requiring inspection for plant diseases and infestations.

In determining the quality of plant material, consideration will be given to the root condition, plant size, insect and disease free condition, and general appearance. A deficiency in any one (1) or more of these shall be sufficient reason to reject selectively or by lot.

331,02,05 Substitution of Plants

No substitution of plant material will be permitted unless evidence is submitted in writing to the Owner that a specified plant cannot be obtained and has been unobtainable since the award of the Contract. If substitution is permitted, it can be made only with written approval by the Owner.

331.04 SEEDING

A. Seed Species: Contractor shall submit 3 copies of data on seed purity and germination.

B. Seed Mix: Shall be applied in the following proportions:

- 2 Lbs. per acret Indian Ricegrass
- 2 Lbs. per acre± Atriplex 2 Lbs. per acret Great Basin Wildrye
- 3 Lbs. per acre± Siberian Wheatgrass
- 1 Lb. per acret Canbys bluegrass 2 Lbs. per acre± Annual rye
- 1/4 Lb. per acre± Palmer penstemon
- 1/4 Lb. per acre± Blue Flax 2 Lbs. per acre± Shadescale
- 2 Lbs. per acre± Bitterbrush 2 Lb. per acret Rubber Rabbitbrush
- Total: 215 Lbs. per acre, PLS.

PREPARATION:

A. Site: Upon completion of construction operations the seedbed shall be scarified parallel with the slope (along the contour) to a minimum depth of 4 inches leaving definite furrows. The material surface shall also be in an uncompacted workable condition for seeding. Areas not suitable for scarifying shall be left in a rough condition to simulate the scarified areas. Remove rock, debris, and clods that are 2 inches in diameter or larger.

APPLICATION:

A. Fertilizer: 16-20-0 fertilizer shall be spread separately in dry form at the rate of 300 Lbs per acre during preparation of seedbed.

B. Seed: Shall be applied between November 1 and February 28 for winter moisture. Use a disc-type drill for seeding + place drill rows uniformly 8 to 10 inches apart. Plant seed not less than 1/4 inch deep or more than 1/2 inch deep. Follow the seeder with a drag, packer, or roller to ensure uniform coverage of the seed and adequate compaction. Drill on the contour, not up and down a slope. When slopes are too steep for contour drilling, use a "cyclone" hand seeder or similar broadcast seeder. Rate of application with mechanical hand seeder shall be twice the rate called for above. Seed shall not be broadcast when the weather is windy or wet, the ground is frozen, or otherwise untillable. Other methods of seeding must have prior written approval by the Engineer. The Contractor shall protect seeded areas from damage by traffic or construction equipment. Areas damaged from these causes shall be repaired by the Contractor.

C. Mulch: Immediately after seeding, apply a straw mulch at a rate of 3,000 lbs. per acre. Anchor with a straw punching machine to secure the straw. Straw shall be clean, free from noxious weed seed. Commercial products may be used in lieu of straw with

331.05 PLANTING BEDS

The soil preparation shall not be initiated until after grading has been completed and the irridation system has been installed, tested, adjusted and accepted by the Owner. Use existing soil in planter areas for planting. Remove construction debris and other foreign matter. For mounding, supplement with imported, friable loam, free of subsoil, roots, grass, excessive amounts of weeds, stone and foreign materials acidity range (pH) of 62 to 7.5s containing a minimum of four percent (4%) and a maximum of twenty-five percent (25%) organic matter. The ground surface within the area shall then be loosened and thoroughly pulverized to a depth of six inches (6"). When required, humus, commercial fertilizer and other additives shall be incorporated at the rate specified in the planting notes and/or Specifications and shall be thoroughly and uniformly tilled into the soil to a depth of six inches (6"). The area shall then be brought to a plane in conformance to the elevations shown on the Plans. The area to be planted shall then be consolidated with approved culti-packers or rollers.

When adding topsoil fill over existing grade, cultivate sub-grade to a depth of 12-18' where

Verify that final grades have been established prior to beginning planting operation. All holes shall be drilled with a power auger to the dimensions specified in the Contract Documents unless otherwise approved by the Owner. Holes shall be drilled at the location of each individual plant, the stake or marking being considered the center of the holes. The holes shall have vertical walls

When required, humus, commercial fertilizer and other additives shall be incorporated at the rates specified in the Contract Documents and shall be thoroughly and uniformly mixed with the material removed from the holes prior to backfilling. After backfilling the holes, the material Sufficient backfill material shall be placed so that after planting and settlement has taken place,

Backfill material shall be native soil that is free of rocks, construction debris and other foreign

331.06 PLANTING

Inspect trees and shrubs for injury, infestation or improper pruning. Do not begin planting or wrapping trees until deficiencies are corrected or plants replaced.

No more plants shall be distributed within the project on any one (1) day than can be planted and watered on that day.

Any planting done in soil that is too wet or dry or not properly conditioned as provided herein will not be accepted. No payment will be made for such planting and any further planting work will be suspended until the Contractor has complied in every way with the Specifications.

331.11.03 Trees and Shrubs

For trees and shrubs backfill using native soil minus rocks and Agriform tablets, per details.

331.16 REPLACEMENTS

Landscaping Contractor shall guarantee the survival of all plants installed as part of the Contract for one (1) year from the date of acceptance of the project by the Owner. Plants found to be dead by the Owner within this time period shall be replaced by the Landscaping Contractor at no additional cost to the Owner. Replacement shall be done as soon as possible considering the appropriate planting season for the plants in question.

331.17 BASIS OF PAYMENT

Basis of payment shall be lump sum which shall be full compensation for all material, labor, tools and equipment necessary to complete the work as specified.

There shall be no direct payment for preparation and stabilization of planting beds, pre-emergent soil treatment, and application of fertilizers. This work shall be deemed included in the lump sum of other Items of landscape work

equipment has compacted soil.

331.05.04 Planting Holes

and horizontal bottoms. Scarify sides of plant pit prior to planting.

shall be saturated with water to the full depth of the holes and until ponding appears in the basin. the basin will conform to the section as shown in the Plans.

material. Protect existing underground improvements from damage.



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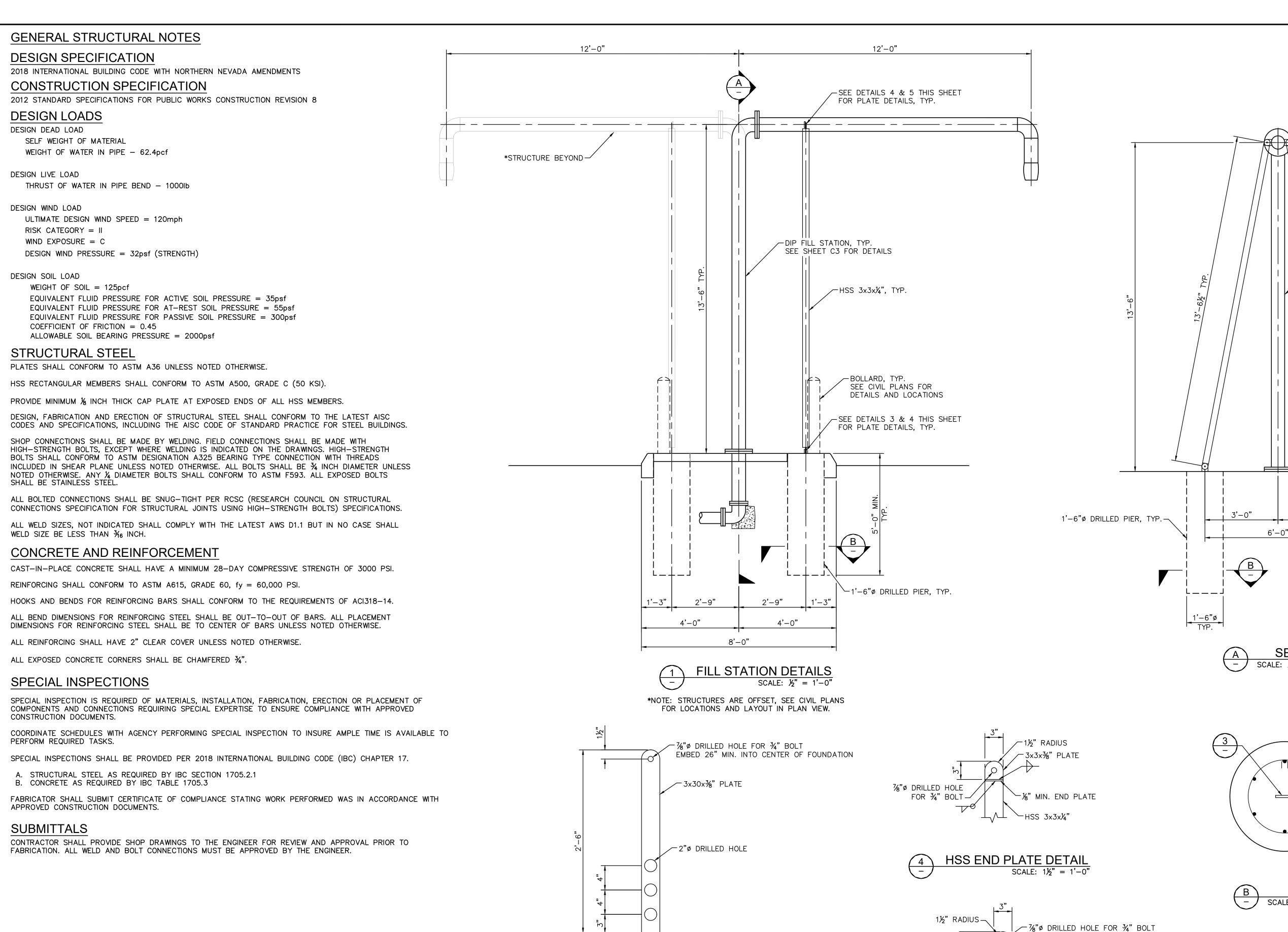
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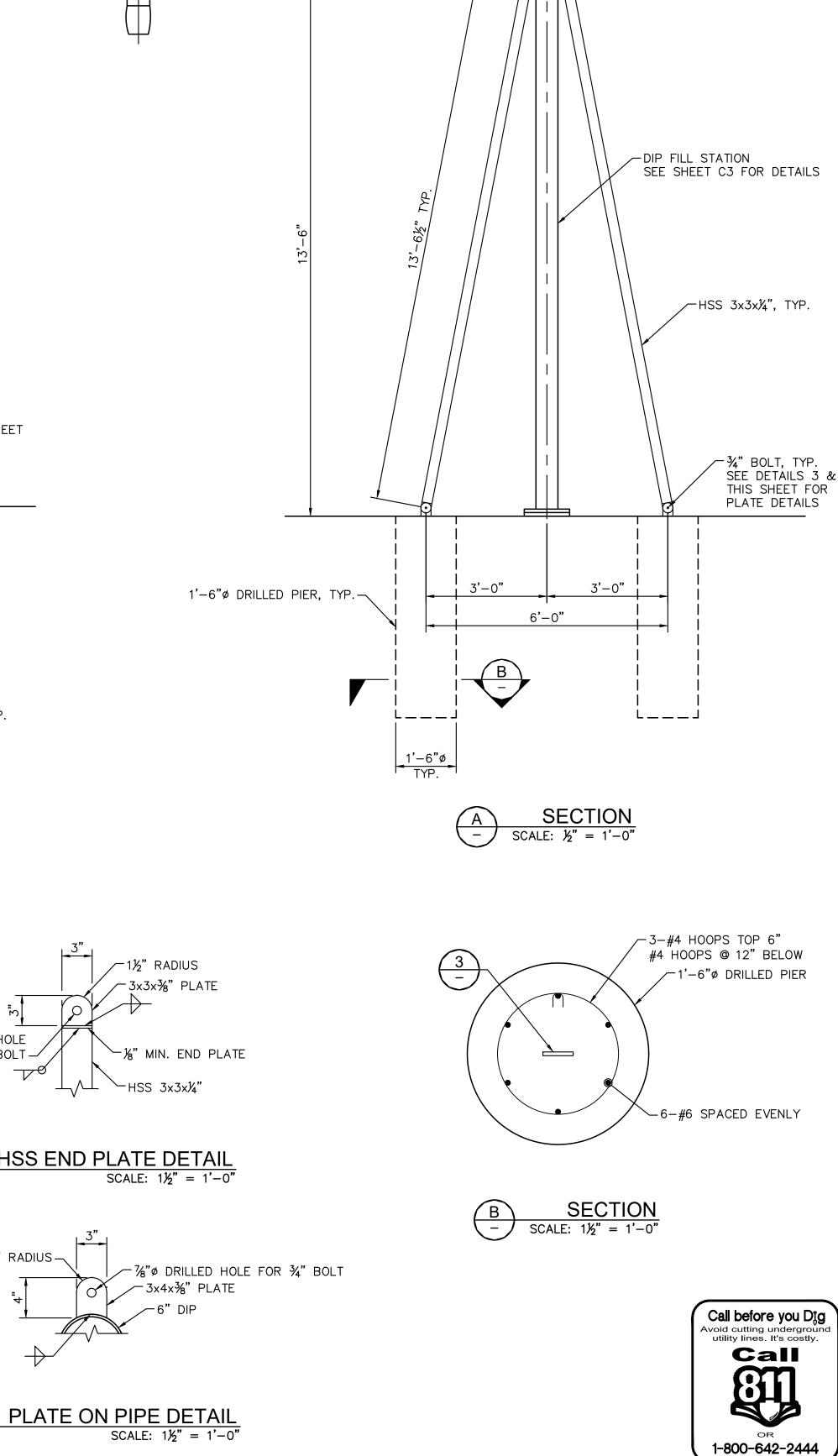
SHEET NUMBER

04/09/202



EMBEDDED PLATE DETAILS

SCALE: $1\frac{1}{2}$ " = 1'-0"



SEE DETAILS 4 & 5 THIS

SHEET FOR PLATE DETAILS

S1 EXHIBIT D

SHEET NUMBER

TATION O, NV

THE NEED WOOD

NATHAN

MERRILL

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04/09/202

