



Meeting Agenda

Location:

Village Hall -
10631 Main Street
Roscoe, IL 61073

Zoning Board of Appeals
Wednesday, February 12, 2025
5:30 PM

CALL TO ORDER

ROLL CALL

APPROVAL OF MINUTES

- 1. Approval of the Minutes** for the meeting of the Zoning Board of Appeals from **December 11, 2024.**
- 2. Approval of the Minutes** for the meeting of the Zoning Board of Appeals from **January 8, 2025.**

NEW BUSINESS

- 3. ZBA 2025-003: Discussion and Recommendation for Approval** of a **Replat** for the properties located at **10307 and 10375 Clearwing Lane** (PIN 08-05-104-016 & 08-06-231-002).

[Applicant: Joshua Petry]
- 4. ZBA 2025-004: Public Hearing and Recommendation for Approval** of a **Planned Unit Development** (PUD) for the properties located at **10307 and 10375 Clearwing Lane** (PIN 08-05-104-016 & 08-06-231-002).

[Applicant: Joshua Petry]
- 5. ZBA 2025-005: Discussion and Recommendation for Approval** of Final **Plat 6 of Hawks Pointe Subdivision.** (PIN 08-06-101-009)

[Applicant: White Oak Trust (Joshua Petry)]

OLD BUSINESS

PUBLIC COMMENT (Limited to 3 minutes per speaker)

ADJOURNMENT



Meeting Minutes

Location:

Village Hall -
10631 Main Street
Roscoe, IL 61073

Zoning Board of Appeals
Wednesday, December 11, 2024
5:30 PM

CALL TO ORDER

The meeting was called to order at 5:31pm by Chair Durstock.

ROLL CALL

PRESENT

Chairman Jay Durstock
Member Laura Baluch
Member Dayne Mead
Member Melissa Smith

ABSENT

Member Brad Hogland
Member Ryan Swanson
Member George Wagaman

STAFF

Josef Kurlinkus - Village Administrator
Evan Hoier - Zoning Administrator (Vandewalle & Associates)
Jay Alms - Division Chief of Fire Prevention (Harlem-Roscoe Fire Protection District)

APPROVAL OF MINUTES

1. **Approval of the Minutes** for the meeting of the Zoning Board of Appeals from **November 13, 2024**.

A motion was made to approve the Minutes of the **November 13, 2024** ZBA Meeting.

Motion made by Member Baluch, Seconded by Member Mead.

There were no additions or corrections.

Voting Yea: Chairman Durstock, Member Baluch, Member Mead, Member Smith

NEW BUSINESS

2. ZBA 2024-018: **Discussion and Approval** of the **2025 regular meeting dates** for the Zoning Board of Appeals.

A motion was made to adopt the **2025 regular meeting calendar** for meetings of Zoning Board of Appeals.

The Board agreed that meetings will continue to be held on the second Wednesday of each month.

Motion made by Member Baluch, Seconded by Member Smith.

Voting Yea: Chairman Durstock, Member Baluch, Member Mead, Member Smith

3. ZBA 2024-017: **Public Hearing for Approval** of a **Planned Unit Development** (PUD) for the properties located at **13000 and 13019 N 2nd Street** (PIN 04-21-151-004 & 04-21-151-005)

{Applicant: Rogue Event Rentals LLC}

A motion was made to lay over this item until the January 8, 2025 meeting.

Motion made by Chairman Durstock, Seconded by Member Baluch.

The lay-lay over was requested by the applicant as they continue to work through their planning process with the Village.

Voting Yea: Chairman Durstock, Member Baluch, Member Mead, Member Smith

OLD BUSINESS

4. ZBA 2024-015: **Discussion and Recommendation** for a **Text Amendment** revising the Village of Roscoe Zoning Ordinance **Sections 15-516, 15-517 and 15-752** relating to **Accessory Buildings and Accessory Structures**.

Mr. Hoier presented the staff report and discussed the revisions made to the proposed changes in the zoning ordinance related to accessory buildings and structures based on the discussion of the members at the November 2024 ZBA meeting.

This includes exemptions for temporary structures like trampolines and basketball hoops from the definition of an accessory structure. He also revised the accessory structures section to allow up to five structures on parcels greater than a quarter acre and no more than two structures on lots a quarter acre or less. Additionally, language was added to allow accessory structures of a hundred square feet or less to be constructed without a permit, as long as they are 5 feet away from any property line and not in the front yard. Finally, he clarified that

detached decks are considered an accessory structure, but attached decks are not considered an accessory structure, they are part of the principal building.

Members discussed refining the language of a zoning ordinance related to the placement of sheds in residential areas, agreeing on restricting these to the "side or rear yard setbacks" to clarify the restrictions on shed placement.

Motion to recommend the changes made by Member Smith, Seconded by Member Baluch.
Voting Yea: Chairman Durstock, Member Baluch, Member Mead, Member Smith

5. ZBA 2024-016: **Discussion and Recommendation** for a **Text Amendment** revising the Village of Roscoe Zoning Ordinance **Section 15-555 and 15-409** relating to **Solar Energy Collection Systems**.

Mr. Hoier presented the staff report and discussed the revisions made to the proposed changes in the zoning ordinance related to Solar Energy Collection Systems based on the discussion of the members at the November 2024 ZBA meeting.

The proposed changes included reducing the maximum height of solar panels from 12 to 10 feet and adding screening and fencing authority for the ZBA during the approval process of a special use for the solar system. All residential districts will require a special use permit for any ground-mounted solar.

Member Baluch raised concerns regarding safety concerns related to solar panels. Chief Alms discussed that the Fire Department generally does not have concerns about the use of solar panels. Smith questioned who does the inspections with Mr. Kurlinkus stating that the county does all the electrical inspections. Mead is in favor of requiring the special use permit which allows the ZBA flexibility regarding the screening for the solar systems. The proposed changes were seen as a way to maintain fairness for both larger and smaller properties, and to prevent unsightly installations in subdivisions.

Motion to recommend the changes to the Village Board of Trustees made by made by Member Baluch, Seconded by Member Smith.
Voting Yea: Chairman Durstock, Member Baluch, Member Mead, Member Smith

PUBLIC COMMENT (Limited to 3 minutes per speaker)

Chief Alms asked if the solar collection systems were included as accessory structures and Mr. Hoier confirmed that they are exempt.

No additional public comment.

ADJOURNMENT

A motion to adjourn was made by Member Mead, Seconded by Member Baluch.

Voting Yea: Chairman Durstock, Member Baluch, Member Mead, Member Smith

The meeting was adjourned at 6:00 PM.



Meeting Minutes

Location:

Village Hall -
10631 Main Street
Roscoe, IL 61073

Zoning Board of Appeals

Wednesday, January 08, 2025
5:30 PM

CALL TO ORDER

The meeting was called to order at 5:32 PM by Chair Durstock.

ROLL CALL

PRESENT

Chairman Jay Durstock
Member Laura Baluch
Member Brad Hogland
Member Dayne Mead
Member George Wagaman

ABSENT

Member Melissa Smith
Member Ryan Swanson

STAFF

Josef Kurlinkus - Village Administrator
Evan Hoier - Zoning Administrator (Vandewalle & Associates)
Jay Alms - Division Chief of Fire Prevention (Harlem-Roscoe Fire Protection District)

APPROVAL OF MINUTES

1. **Approval of the Minutes** for the meeting of the Zoning Board of Appeals from **December 11, 2024.**

A motion was made to lay over to the January 8, 2025 meeting, the approval of the **December 11, 2024 minutes.**

Motion made by Member Wagaman, Seconded by Member Mead.

Voting Yea: Chairman Durstock, Member Baluch, Member Hogland, Member Mead, Member Wagaman

NEW BUSINESS

2. ZBA 2024-017: **Discussion and Recommendation for Approval of a Planned Unit Development (PUD)** for the properties located at **13000 and 13019 N 2nd Street** (PIN 04-21-151-004 & 04-21-151-005).

[Applicant: Rogue Event Rentals LLC]

A motion was made to lay over this item until the February 12, 2025 meeting. The lay over was requested by the applicant as they continue to work through several additional approvals with the State of Illinois.

Motion made by Member Baluch, Seconded by Member Wagaman.

Voting Yea: Chairman Durstock, Member Baluch, Member Hogland, Member Mead, Member Wagaman

3. ZBA 2025-001: **Design Review** for Approval of a **700 SF Accessory Storage Structure** located at **11212 Main Street** (PIN: 04-33-176-016).

[Applicant: Roscoe Glass (Duane Flowers)]

The Application was presented by the Duane Flowers of Roscoe Auto Glass. Mr. Flowers stated that the building being proposed is 700 square foot accessory storage structure at 11212 Main Street, which will be located behind a privacy fence and would not require electricity or heating.

Mr. Hoier presented the staff report for the Village stating that the proposed structure meets all of the Village's zoning requirements including height and lot coverage aspects. The only recommended condition is that the structure will need to be placed on a paved surface before construction.

Motion to approve made by Member Mead, Seconded by Member Baluch.

The Board asked about the colors and materials of the structure. Mr. Flowers stated that it will be repainted to the same color as the existing building.

Voting Yea: Chairman Durstock, Member Baluch, Member Hogland, Member Mead, Member Wagaman

4. ZBA 2025-002: **Public Hearing for Approval** of a **Special Use Permit (SUP)** for continued operation of an auto body and repair business located at **5414 Edith Lane** (PIN 04-28-327-003).

[Applicant: R & L Auto Body (Katie Stadler)]

The Application was presented by Katie Stadler owner of R & L Auto Body. She stated that she purchased the business in September 2025, and that this includes all the same tax identification numbers, employees, accounts, etc. She plans on operating the business the same way as it has always operated, just with her as the new owner.

Mr. Hoier presented the staff report for the Village. He stated that this business operates under a special use permit for the operation of auto body and repair in an industrial district. The prior special use permit for this business was approved with conditions, including its expiration upon sale of the business or after 10 years. The Village received a request for a zoning verification for State of Illinois licensing purposes, which required the owner to come into the Village and request the Special Use Permit. He stated that staff recommends approval with several conditions including paving the unpaved portion of the parking lot and combining the two parcels on which the business is located into one parcel.

Ms. Stadler stated that she agreed to the conditions being requested, and that she would have them completed during the next year.

A motion was made to approve a recommendation to the Village Board of Trustees for the approval of the Special Use Permit.

Board members discussed conditions for the special use permit, including requiring the gravel portion of the parking area to be paved within 18 months unless construction for building expansion begins before then. They also decided to recommend that the two parcels will need to be combined by January 1, 2026.

Voting Yea: Chairman Durstock, Member Baluch, Member Hogland, Member Mead, Member Wagaman

OLD BUSINESS

Mr. Kurlinkus briefly discussed the property on Edith Lane - adjacent to the north entrance of R & L Auto Body - which is the only access to onto the parcel. The Village has worked with the the property owner who has been very been cooperative, and will be dedicating as right-of-way, the portion of the property where the roadway is located.

PUBLIC COMMENT (Limited to 3 minutes per speaker)

Trustee Petty was present in the audience, and asked several questions about the tracking of special use permits. Mr. Kurlinkus stated that the Village has set up a new tracking process for new permits being issued.

ADJOURNMENT

A motion to adjourn was made by Member Mead, Seconded by Member Baluch.

Voting Yea: Chairman Durstock, Member Baluch, Member Hogland, Member Mead, Member Wagaman

The meeting was adjourned at 6:06 PM

Zoning Board of Appeals Meeting of February 12th, 2025

Application No. ZBA 2025-003

Applicant: Joshua Petry

Location: 10297 Clearwing Lane (08-05-104-016) and 10329 Clearwing Lane (08-06-231-002)

Requested Action: Amendment to the Clearwing Subdivision Plat

Existing Use: Vacant Land

Proposed Use: Vacant Land

Existing Zoning: RM (Residential-Multifamily)

Adjacent Zoning:

North: RM (contiguous)

East: RM (contiguous)

South: RM (contiguous)

West: RM (contiguous)

Description: The applicant is requesting to replat the parcels at 10297 Clearwing Lane (08-05-104-016) and 10329 Clearwing Lane (08-06-231-002). This would be a combination of the parcels and a change in the plat for the entire Clearwing Subdivision, due to the site's current status as designated open space. This would redesignate the two parcels as available for further residential development, based on the Multifamily Residential Zoning District standards, as shown below in the table below:

	District Standard	Proposed
Lot Size	19,800 square feet	2.28 acres (99,316 sqft)
Lot Width	110 linear feet	319 feet minimum
Lot Depth	150 linear feet	233 feet minimum
Development Setback Standards		
Front Setback	30 feet	Able to Accommodate
Side Setback	15 feet	Able to Accommodate
Rear Setback	30 feet	Able to Accommodate

As seen above, the proposed replat of the parcel would conform to the Multifamily Residential Zoning District and to any other Village Ordinances.

Further Context: The justification for this replatting is that the owner of the parcel would like to consider development on the parcel for additional multifamily buildings. It should be noted that Roscoe is currently experiencing high demand for multifamily and other rental housing. Further development of smaller apartment buildings with around 4 units could help supply this type of housing in the area to meet that elevated demand.

The site is currently designated as “community space” to provide recreational land and further open space for the subdivision. However, the site is currently vacant of any recreational equipment and is not adequately maintained to provide for enjoyment of open space. For example, the grass on site is often too long to allow for activities like ball games or to act as a space for pets. The overgrown grass also leaves the site looking less aesthetically pleasing than it otherwise could be with further development.

Authority: When considering a replat from an area dedicated as “community space” or “parkland”, the Zoning Board of Appeals must consider the Village Code’s description of required dedications in Chapter 154 – *Subdivision Regulations*. Within this Chapter, Section 15-172 governs the required number and size of parkland dedication in a given subdivision. The formula for multifamily subdivisions is as follows:

Step 1: Multiply the total number of units by 1.86 to give an estimated number of persons living within the subdivision.

Step 2: Multiply the total estimated number of persons living within the subdivision by 0.007 acres to give the total amount of land required for the dedication of parkland in the particular development.

While this section of the code was written in 2006, and the original platting for this subdivision was completed in 2004, the current dedication of this land is deficient by approximately 4 acres. The required number of acres based on the current Code is 6.6 acres, whereas the lot is currently 2.28 acres in size.

Section 15-179 of the Village Code governs exceptions, variations, and waivers to the requirements of Chapter 154. This section allows the Village to determine that a particular application of the provisions or procedures of the Chapter results in an unreasonable hardship or involves peculiar difficulties. These may include, but are not limited to, “prohibitive cost.” Under such circumstances, the Village Board may consider an exception, variation, or waiver to the requirements outlined in the Chapter.

In the case of replatting this parcel, the Zoning Board of Appeals (ZBA) and Village Board must find that not allowing multifamily development on this parcel constitutes a peculiar difficulty, such as prohibitive cost or a comparable issue. Staff recommends that this difficulty be identified as one or more of the following:

1. Village Need for Affordable and Varied Housing

- The Village has a pressing need for more affordable and diverse housing options. Allowing multifamily development on this parcel helps meet this need, aligning with broader housing goals and community priorities.

2. Parcel Size is Insufficient for Meaningful Recreation

- The parcel is too small to be effectively utilized as recreational space. Its limited size and configuration render it unsuitable for providing any substantial community benefit in its current designation.

3. Surrounding Development Patterns

- The surrounding area is characterized by large lots and existing open space. This reduces the demand for additional community-dedicated open space on this parcel, making multifamily development a more practical and beneficial use of the land.

By identifying these difficulties, the Village can justify a waiver or variation, demonstrating that replatting the parcel for multifamily development is a reasonable and necessary solution to address both community needs and land use challenges.

Staff Recommendation: Staff recommends **approval** of the requested replatting, subject to the following conditions:

1. Applicant is to provide staff with updated plat documents indicating the proposed change by February 14th.
2. Revised plat must be on-file with the Winnebago County Register of Deeds prior to any improvements being made.

PLAT THREE OF CLEARWING

BEING A SUBDIVISION OF PART OF THE NORTHWEST QUARTER OF SECTION 5,
AND PART OF THE NORTHEAST QUARTER OF SECTION 6, TOWNSHIP 45 NORTH,
RANGE 2 EAST OF THE THIRD PRINCIPAL MERIDIAN, VILLAGE OF ROSCOE,
COUNTY OF WINNEBAGO, STATE OF ILLINOIS

POINT OF COMMENCEMENT
NORTHEAST CORNER OF THE NORTHEAST
QUARTER OF SECTION 6-45-2

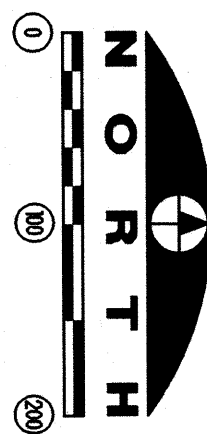
ROSCOE ROAD

COUNTY HIGHWAY 63

MORNING CLOAK

PLAT ONE OF
CLEARWING

STREET



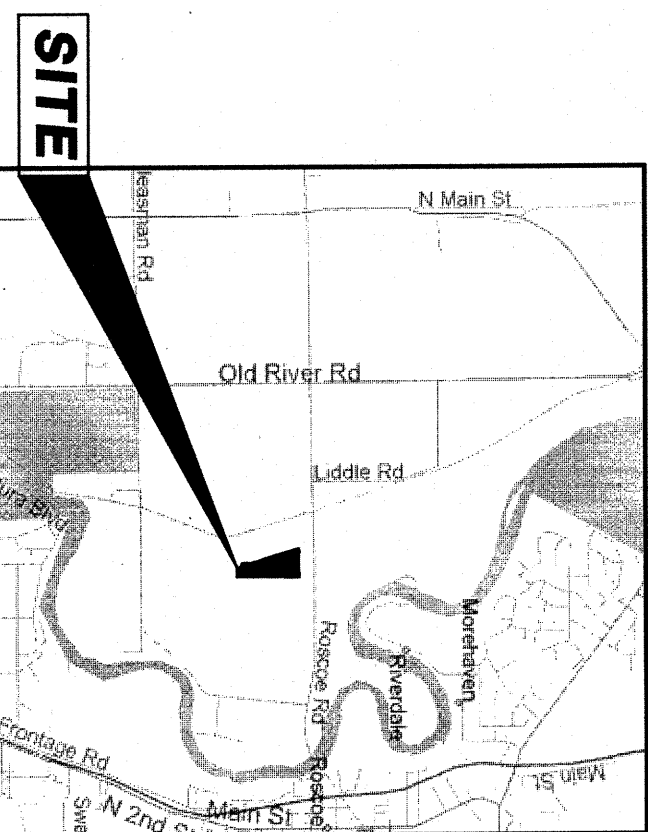
LEGEND

■	SET CONCRETE MONUMENT
●	3/4" PIN
R	RADIUS
MEASURED BEARING	
MEASURED DISTANCE	
PROPOSED BUILDING SETBACK LINE	
EXISTING BUILDING SETBACK LINE	
PROPOSED EASEMENT LINE	
EXISTING EASEMENT LINE	
SECTION LINE	
PROPOSED RIGHT-OF-WAY LINE	
EXISTING RIGHT-OF-WAY LINE	
EXTERIOR BOUNDARY LINE	
INTERIOR LOT LINE	
LOT NUMBER	
S.F.	SQUARE FEET
U.E.	UTILITY EASEMENT
D.E.	DETENTION EASEMENT
G.M.E.	GAS MAIN EASEMENT
W.M.E.	WATERMAIN EASEMENT
B.S.L.	BUILDING SETBACK LINE

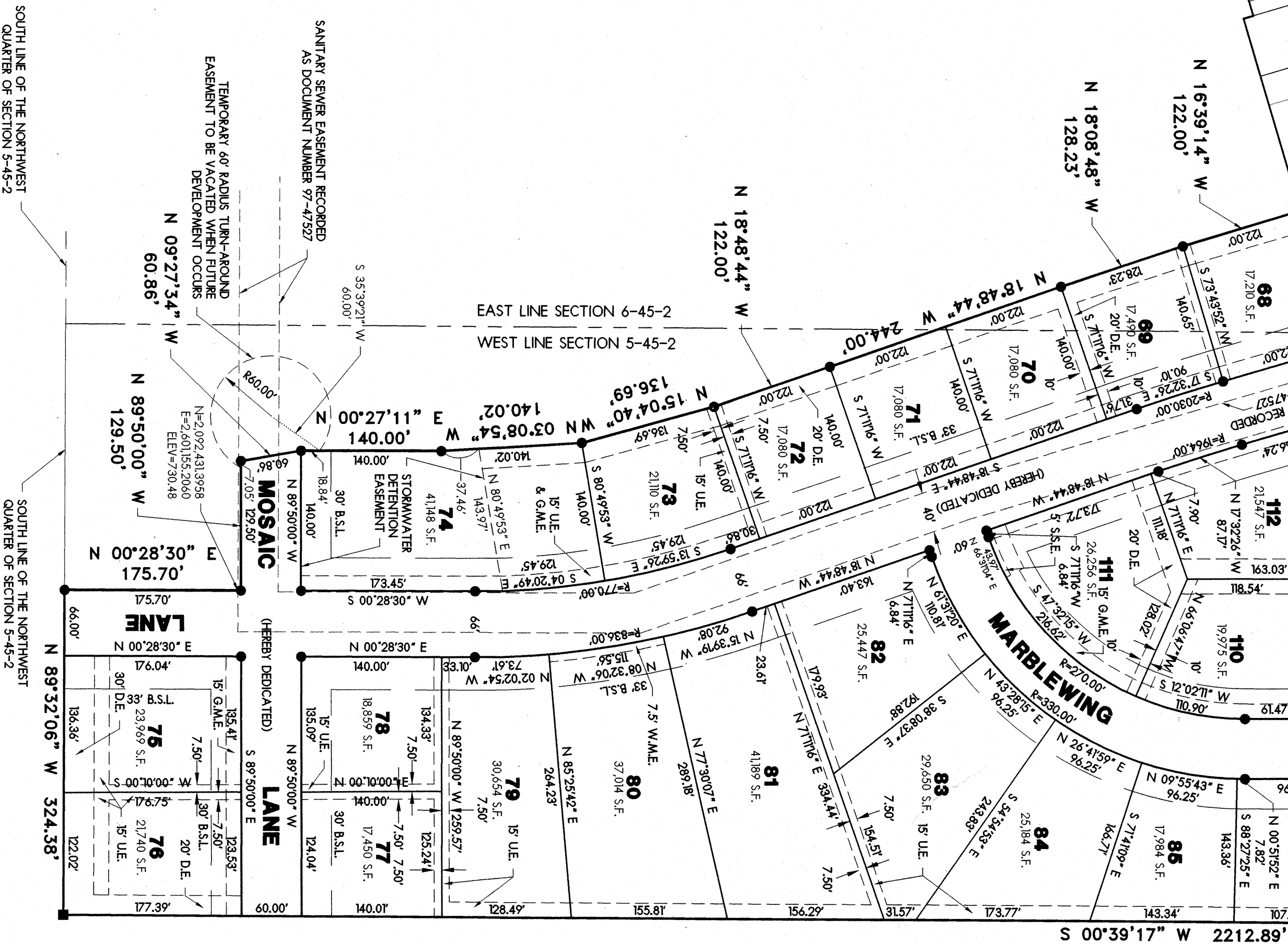
- NOTES
1. TEMPORARY 60' RADIUS TURN-AROUND EASEMENT AS DEDICATED UPON PLAT ONE OF CLEARWING HEREBY VACATED.
 2. FRONT YARD SETBACK IN RM - MULTI-FAMILY RESIDENTIAL DISTRICT IS 1/2 RIGHT-OF-WAY
 3. INTERIOR SIDE YARD SETBACK IN RM - MULTI-FAMILY RESIDENTIAL DISTRICT IS TEN (10) FEET.
 4. REAR YARD SETBACK IN RM - MULTI-FAMILY RESIDENTIAL DISTRICT IS TWENTY (20) FEET.

OWNERS

PETRY TRUST No. 1989
P.O. BOX 6027
LOVES PARK, ILLINOIS 61822



VICINITY MAP



SOUTH LINE OF THE NORTHWEST
QUARTER OF SECTION 5-45-2

SOUTH LINE OF THE NORTHWEST
QUARTER OF SECTION 5-45-2

Zoning Board of Appeals Meeting of February 12th, 2025**Application No. ZBA 2025-004****Applicant:** Joshua Petry**Location:** 10297 Clearwing Lane (08-05-104-016) and 10329 Clearwing Lane (08-06-231-002)**Requested Action:** Planned Unit Development**Existing Use:** Vacant Land**Proposed Use:** Vacant Land**Existing Zoning:** RM (Residential-Multifamily)**Adjacent Zoning:**

North: RM (contiguous)

East: RM (contiguous)

South: RM (contiguous)

West: RM (contiguous)

Description: The applicant is seeking approval of a Planned Development at the newly replatted lot created from PINs 0805104016 and 0806231002. The applicant intends to develop this property to create 23 additional dwelling units. These new units would be split between 5 4-unit buildings and 1 3-unit building. Currently, the site is vacant and is at the center of the Clearwing subdivision on the Village's west side. The development site would be centered on a turnaround street connecting along Clearwing Lane.

Development: The project site is approximately 2.30 acres in size and the 23 dwelling units for this development create an overall density of 10 dwelling units per acre. The development area is surrounded by 4-unit multifamily buildings, which comprise the vast majority of the entire subdivision. However, this development includes dwelling units that are considerably smaller than the larger buildings' in the subdivision, at a size of 92 feet wide by 40 feet in depth, amount to approximately 3,680 square feet per building. There is a common open space at the center of the development between the two connections to Clearwing Lane. Each dwelling unit is provided with an individual 20 foot-long driveway and garage space, creating two parking spaces. An additional 12 parking spaces have been provided in the middle of the development, adjacent to the open space.

The turnaround street is 22 feet in width. The minimum driveway length is 20 feet. The applicant has not proposed any sidewalk or walkway features to the project. Sidewalks are not found throughout the rest of the development either. The 3- and 4-family homes in this development are located on both the interior and exterior of this turnaround street. In total, there are 2 building within the turnaround street and 5 on the perimeter.

Zoning Analysis: Because the development would include multiple different buildings on the same lot, the setback requirements within the Zoning Code pertain to the edges of the parcel, rather than the individual buildings. For example, while a building in this development could be less than 30 feet from another, which the zoning code typically requires (15 ft setback from each side lot line), there is effectively no required setback since there are no lot lines. That being said, the applicant's site plan demonstrates that it complies with the required front, side, and rear setbacks for all the buildings on this lot.

Without the setback requirements, the subsequent district dimensional requirements are listed in the table below:

	District Standard (RM)	Proposed Development
Lot Coverage	30 percent maximum	21,220 sqft (21.2%)
Site Area per DU	3,300 sqft per DU (75,900 sqft required)	99,316 sqft
Building Height	35 feet	35 feet

As shown above, the proposed development would be compliant with the subsequent zoning dimensional standards.

Regarding engineering standards, Fehr-Graham has indicated that there is no need to hold up approvals for the Planned Development, and that the applicant's stormwater management memo will need to be provided to staff and granted final approval from the Village Engineer as a condition of approval.

Parking: Section 15-619 of the Village Code governs off-street parking requirements for different uses. For multifamily land uses, the Section requires 2.5 parking spaces per dwelling unit at a minimum. Furthermore, the Section requires each dwelling unit to have at least 1 parking space to be in a fully enclosed area (garage). Regarding the applicant's site plan, there are a total of 58 individual parking spaces provided within the development. These 58 spaces consist of: 23 garage parking spaces, 23 driveway parking spaces, and 12 parking lot spaces. These spaces are consistent with the dimensional requirements for parking spaces within the Village.

Landscaping: The applicant has submitted a landscaping plan in addition to the site plan. Generally, landscaping will be either installed or maintained throughout the site. The applicant has

provided a mix of grasses, shrubs, and both deciduous and evergreen trees. Much of the smaller landscape plantings are to be installed around the base of each of the multifamily buildings to increase the aesthetic quality of the development. Additionally, the applicant indicates a consistent rhythm of trees around the perimeter of the site, along with several larger trees on the interior of the site. These larger plantings will allow for greater screening and privacy where additional development may, at one time, have been a concern. While these plantings go a considerable length to increase the aesthetic value and screening on-site, the landscape plan is not technically compliant with the Village Code. Village staff has identified that the current plan is deficient in two areas:

1. The landscape plan does not meet the Transition Yard requirements in the Code, which dictate that there be at least 4 large canopy or evergreen trees every 100 linear feet along the perimeter of the site. As indicated in the applicant's application, this requirement is short a few trees of meeting the standard.
2. The landscape plan does not meet the Parking Lot Perimeter requirements in the Code, which dictate that any new or extended parking lots have at least one shrub or native grass planted every three feet. It also states that landscape beds must run for a minimum of 50% of the length of the parking lot. The applicant's landscape plan shows a reduced landscape bed in the front of each of the parking lot areas, but these landscaped beds would not fully meet the code.

Through conversations with Village staff, the applicant and staff have come to the understanding that the large amounts of landscaping around the foundations of the individual multifamily buildings and throughout the site as a whole provides sufficient screening and beautification of the site. This landscaping would be generally consistent with the landscape pattern within the existing subdivision.

Table of Requested Flexibilities:

	Code Standard	Proposed	Staff Recommend?
Allow multiple residential buildings on one lot.	Currently, only 1 multi-family building would be allowed on the lot in question.	6 multifamily buildings (3- and 4-family units)	Staff recommends <u>approval</u> of the requested flexibility.
Landscaping Item #1: Transition Area flexibility.	Currently, 4 large canopy or evergreen trees would be required every 100 linear feet of lot perimeter.	The applicant is proposing a mix of large and medium sized trees around the perimeter of the lot consistent with the	Staff recommends <u>approval</u> of the requested flexibility.

		existing landscaping in the subdivision.	
Landscaping Item #2: Parking Lot Perimeter flexibility.	Currently, one native grass or shrub planting would be required every 3 feet around the perimeter of the proposed parking lots.	The applicant is proposing reduced landscaping beds on the fronts of each small parking lot areas.	Staff recommends <u>approval</u> of the requested flexibility.

Staff Recommendation: Staff recommends **approval** of the Planned Development, subject to the following condition:

1. All proposed multifamily buildings receive Design Review approval before construction.
2. Final approval of applicant's stormwater management memo by Village Engineer.



ZBA File # _____

Item # 4.

**APPLICATION FOR DEVELOPMENT APPROVAL:
PLANNED DEVELOPMENT REVIEW AND APPROVAL**

This form is to be used for all special use Planned Development applications to be heard by the Village of Roscoe. Failure to complete this form properly will delay its consideration.

PART I. GENERAL INFORMATION

A. Project Information

1. Project/Owner Name: Joshua Petry
2. Project Location: 10311 Clearwing Ln, Roscoe, IL 61073
3. Brief Project Description:
Construction of a private drive, sanitary sewer extension, and water main extension to
serve 6 new multi-family homes (23 total units).

4. Project Property Legal Description:

LOT A OF PLAT THREE OF CLEARWING

TOWNSHIP 45 NORTH, RANGE 2 EAST OF THE THIRD PRINCIPAL

MERIDIAN, VILLAGE OF ROSCOE, WINNEBAGO COUNTY,

5. Project Property Size in Acres and Square Feet: 98,628 S.F. (2.264 AC)

B. Owner Information

1. Signature: _____
2. Name: Joshua Petry
3. Address: _____
4. Phone Num _____

C. Agent Information (Designation of an agent to act on behalf of the owner is optional.)

1. Signature: _____
2. Name: Jeff Linkenheld (Arc Design Resources, Inc.)
3. Address: _____
4. Phone Num _____

Official Use Only

ZBA Pre-App Date _____	ZBA Date(s) _____	Zoning District _____
App Date _____	CA Date(s) _____	Comp Plan _____
ZBA Approved _____	Approved with conditions _____	Denied _____
CA Approved _____	Approved with conditions _____	Denied _____

PART II. APPLICATION REQUIREMENTS

The materials required to be included with an application for a Planned Development are the minimum necessary to submit a complete application. Village staff, consultants, review agencies, commissions, and boards may require additional materials as necessary to fully evaluate the proposed project. A pre-application conference with Village staff is required. At the meeting, the ZBA may add or delete items from this list as they deem appropriate. All information, including this application form, must be submitted electronically in either a PDF or Word format to the email address noted below the table. If the combined file size exceeds 10MB, a Dropbox or zip file must be used.

Official Use Only

Item # ^(a)	Application Material	Initial Application		Revisions		Second Set of Revisions	
		Required Materials	# Copies Received	# Copies Required	# Copies Received	# Copies Required	# Copies Received
1.	Completed Development Application	X					
2.	Project Narrative	X					
3.	Basic Application Fee	X					
4.	Agreement for Reimbursement of Professional Consulting Fees	X					
5.	Proof of Ownership	X					
6.	Agent Affidavit	X					
7.	Property Owners within 250 feet	X					
8.	General Location Map	X					
9.	Survey / Legal Description (To include: easements, covenants, and any other restrictions on property)	X					
10.	Site Plan (To include: landscape plan, parking plan, common spaces, etc.)	X					
11.	Building Elevations	X					
12.	Floor Plans	X					
13.	Roof Plan	X					
14.	Color Rendering	X					
15.	Photographs of Existing Property and Area	X					
16.	Village Utility Impact Calculations and Report*	*					
17.	Preliminary Utility Improvement Plans*	*					
18.	Utility Letters*	*					
19.	Traffic Study*	*					
20.	IDOT Permit for Work*	*					
21.	Professional economic analysis*	*					

*= if Village staff deems necessary for analysis and approval.

Submit all of the above electronically to: Janel Reidinger at jreidinger@villageofroscoe.com.

If you have any questions, please call Janel at 815-623-2829 ext. 104.

PART III. SITE DATA TABLE

Please fill in the following table with information about the site.

Total Development Size	98,628 S.F. (2.264 AC)
Minimum Lot Size(s)	98,628 S.F. (2.264 AC)
Minimum Front Yard Setback(s)	33'
Minimum Side Yard Setbacks	15'
Minimum Rear Yard Setback(s)	30'
Minimum Impervious Surface Percentage	38%
Maximum Height of Buildings	35'
Maximum Number of Dwelling Units (for residential projects)	23
Average Unit Square Footage	1,776 S.F.
<u>Total Building Area by Floor for Each Building</u> <u>(for non-residential projects)</u>	
Minimum Lot Coverage Percentage This is calculated by adding the total footprint of all buildings and structures on a lot and dividing by the total lot area.	21%
Minimum Number of Underground/Covered Parking Spaces	23 garage parking stalls
Minimum Number of Surface/Uncovered Parking Spaces	23 driveway parking stalls 12 additional surface parking stalls

PART IV. JUSTIFICATION OF THE PROPOSED PLANNED DEVELOPMENT

Please answer all questions, but be concise and brief in your answers. If additional pages are needed to complete your answers, please be sure to include the appropriate and complete question number for each response. **Applicants are encouraged to refer to drawings or other application materials as necessary to add clarity to their answers.**

1. How are the plans, designs, and/or proposals for the proposed Planned Development in harmony with the purposes, goals, objectives, policies and standards of the Village of Roscoe Comprehensive Plan, Zoning Ordinance, and any other plan, program, or ordinance adopted, or under consideration pursuant to official notice by the Village?

The goal of the proposed Planned Development is to provide affordable, quality housing for residents of The Village of Roscoe. The proposed Planned Development includes (1) 3-family Home and (5) 4-family homes to provide a total of 23 dwelling units.

2. How does the proposed Planned Development provide reasonable visual and auditory privacy for all dwelling units located within and adjacent to the site?

Landscape screening is proposed on provide reasonable visual and auditory privacy for neighbors within and adjacent to the site. No excess noise is anticipated from the Planned Development as this is all residential area.

3. How are fences, walls, barriers and/or landscaping arranged in the proposed Planned Development to protect and enhance the property and to enhance the privacy of on-site and neighboring occupants?

The proposed Planned Development has been designed to blend in with the adjacent multi-family homes. No walls or fences are proposed as none exist currently in the adjacent subdivision.

Landscaping is arranged to provided privacy without completely blocking sight lines.

4. How is the proposed Planned Development designed and arranged to have a minimal negative impact on the use and enjoyment of adjoining property?

The proposed Planned Development site is surrounded by developed multi-family lots, and this project is intended to “in-fill” a vacant lot within the existing subdivision. The development of this site will not negatively impact the use and enjoyment of adjoining properties as the surrounding properties are already developed.

5. How are all of the elements of the proposed Planned Development designed and arranged so that they exist harmoniously with nearby existing and anticipated development? Elements to consider include: buildings, outdoor storage areas and equipment, utility structures, building and paving coverage, landscaping, lighting, glare, dust, signage, views, noise, and odors.

The proposed Planned Development consisting of multi-family homes makes the most sense for this parcel of land as the land is surrounded by existing multi-family homes. A private drive is proposed to provide access to the (6) multi-family homes that are proposed. The proposed homes are arranged in a manner that is consistent with the surrounding area.

6. How are noxious emissions or conditions not typical of land uses in the underlying zoning district associated with the proposed Planned Development effectively confined so as not to be injurious or detrimental to nearby properties?

No noxious emissions or conditions not typical of land uses in the underlying zoning district are associated with this development.

7. Are there any uses that need to be permitted by exception? Are they necessary or desirable and appropriate with respect to the primary purpose of the development and not of such a nature, or so located, as to exercise a detrimental influence on the surrounding neighborhood? Explain.

The proposed Planned Development consists of (6) multi-family homes on one lot, which needs to be permitted by exception. The proposed Planned Development site is large enough to fit multiple multi-family homes, but not large enough to subdivide into traditional lots. Allowing for a PUD development provides the highest and best use of the property.

8. Planned Developments are intended to allow for greater design flexibility than is permitted by the standard district regulations for tracts of land where the planned development would better utilize the topographic and natural character of the site and would produce a more economical and stable development. Planned Developments are intended to be consistent with the spirit of the zoning ordinance and conform with the general character of the Village or the immediate neighborhoods.

In the table below, provide all of the proposed modifications to the standards in the underlying zoning district for the proposed Planned Development. Additionally, provide the justification, based on the intent for planned developments as described in the Village of Roscoe Zoning Ordinance Section 15-721, for these proposed changes. If no modification is proposed, simply respond N/A.

Code Standard	Proposed Modifications	Justification
Uses	Multiple multi-family homes on 1 lot	The proposed Planned Development site is large enough to fit several multi-family homes, but not large enough to subdivide into traditional lots. Allowing a PUD on this site provides for more housing to be available to Village residents than would otherwise be available.
Total Lot Area/ Dimensions	N/A	
Lot Area per Unit/Density	N/A	
Floor Area	N/A	
Front Setback	N/A	

Side Setback	N/A	
Rear Setback	N/A	
Building Height	N/A	
Open Space/ Lot Coverage See lot coverage calculation in above data table	N/A	
Accessory Structures	N/A	
Landscaping	The proposed design is technically short a few trees on the code requirement for the three perimeter "Transition Areas". We have worked with Village staff to balance out need vs. acknowledgement of existing trees on the site	If all of the other "non code trees provided on site" are counted, the proposed design is over the total tree counts.
Parking	N/A	

CLEARWING LOT A PUD

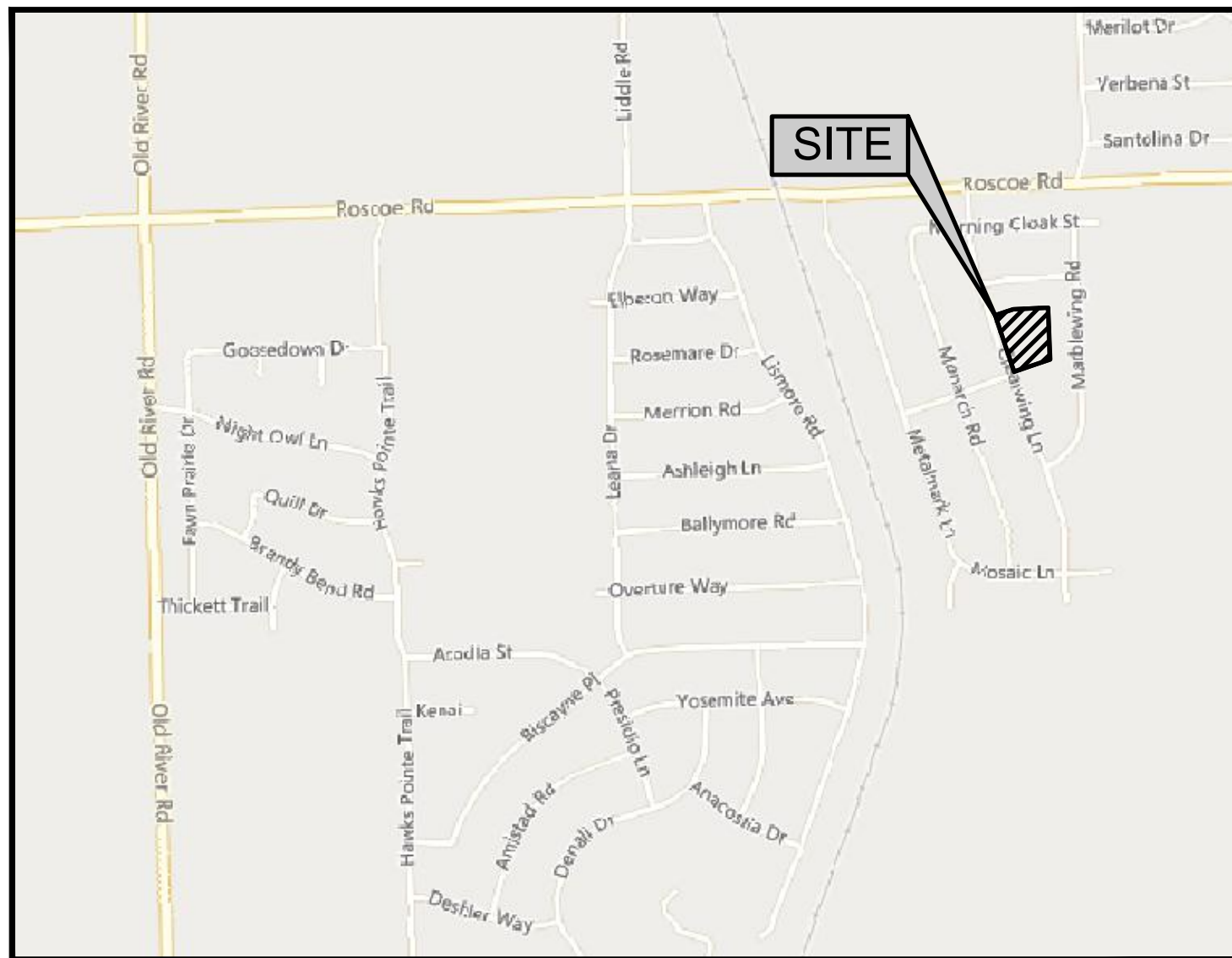
10311 CLEARWING LN

ROSCOE, IL 61073

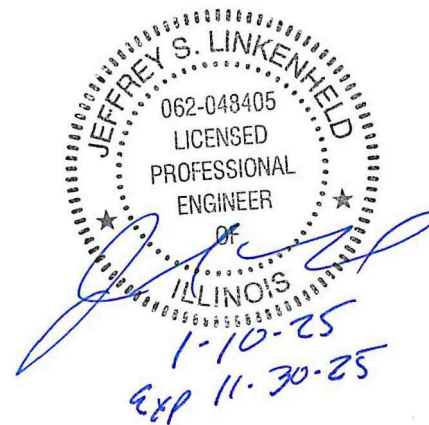
GENERAL NOTES

- The designs represented in these plans are in accordance with established practices of civil engineering for the design functions and uses intended by the owner at this time. Neither the engineer nor its personnel can or do warrant these designs or plans as constructed except in the specific cases where the engineer inspects and controls the physical construction on a contemporary basis at the site.
- The contractor, by agreeing to perform the work, agrees to indemnify and hold harmless the owner, the engineer, the city, and all agents and assigns of those parties, from all suits and claims arising out of the performance of said work, and further agrees to defend or otherwise pay all legal fees arising out of the defense of said parties.
- In accordance with generally accepted construction practices, the contractor shall be solely and completely responsible for conditions of the job site, including safety of all persons and property during performance of the work. This requirement will apply continuously and not be limited to normal working hours. Any construction observation by the engineer of the contractor's performance is not intended to include review of the adequacy of the contractors safety measures, in, or near the construction site. The contractor is responsible for maintaining adequate signs, barricades, fencing, traffic control devices and measures, and all other measures that are necessary to protect the safety of the site at all times.
- Maintain access for vehicular and pedestrian traffic as required for other construction activities. Use traffic control devices to include temporary striping, flagmen, barricades, warning signs, and warning lights shall be in accordance with current MUTCD and IDOT standards.
- All phases of the site work for this project shall meet or exceed industry standards and requirements set forth by the Village of Roscoe, the State of Illinois, and this plan set.
- The Village of Roscoe must be notified at least two (2) working days prior to the commencement or resumption of any work.
- The contractor shall coordinate all permit and inspection requirements with responsible local, state, and federal agencies. The contractor shall include the costs of this coordination and all inspection fees in the bid price.
- All work performed by the contractor shall come with a warranty against defects in workmanship and materials. This warranty period shall run concurrent with the required warranty periods the owner must provide to each local government agency, as a condition of the permit.
- The contractor will be held solely responsible for and shall take precautions necessary to avoid property damage to adjacent properties during the construction of this project.
- All structures, inlets, pipes, swales, roads and public egresses must be kept clean and free of dirt and debris at all times.
- Any field tiles encountered during construction shall be recorded showing size, location, and depth by the contractor, and either reconnected and rerouted or connected to the storm sewer system. The owner shall be notified immediately upon encountering any tile.
- The contractor shall field verify the elevations of the benchmarks prior to commencing work. The contractor shall also field verify the location and elevation of existing pipe inverts, curb or pavement where matching into existing work. The contractor shall field verify horizontal control by referencing property corners to known property lines. Notify the engineer of discrepancies in either vertical or horizontal control prior to proceeding.
- All elevations are on NAVD 88 datum.
- Parking areas designated as A.D.A. and all sidewalk shall be compliant with state and local A.D.A. requirements.
- Tactile warning plates per IDOT specifications shall be placed at all locations where sidewalk that is to be replaced intersects public roads and at locations indicated in this plan set.
- The contractor shall verify the location of all utilities in the field prior to construction. This includes sanitary sewer, water main, storm sewer, General Telephone, Commonwealth Edison, Northern Illinois Gas and cable television, if any. The J.U.L.I.E. number is 1-800-892-0123.
- Property corners shall be carefully protected until they have been referenced by a Professional Land Surveyor.
- The contractor shall keep careful measurements and records of all construction and shall furnish the Engineer, the Owner and the City with record drawings in a digital format compatible with AutoCAD Release 14 upon completion of his work.
- Any excess dirt or materials shall be placed by the contractor onsite at the owner's direction or as indicated on the plans.
- Notify the owner and Village of Roscoe of any existing wells. Obtain permit form the Illinois Bureau of Minerals and the State Water Survey. Cap and abandon wells in accordance with local, state, and federal regulations.
- Finish grade shall in all areas not specifically reserved for storm water management shall drain freely. No ponding shall occur. Tolerances to be observed will be measured to the nearest 0.04 of a foot for paved surfaces and 0.10 of a foot for unpaved areas.

VICINITY MAP



DIAL 811 OR (800)
892-0123



OWNER:

WHITE OAK TRUST

747 GLEASMAN ROAD
ROSCOE, IL 61073

ENGINEER:

ARC DESIGN
RESOURCES INC.

5291 ZENITH PARKWAY
LOVES PARK, IL 61111
VOICE: (815) 484-4300
FAX: (815) 484-4303
www.arcdesign.com
Illinois Design Firm License No. 184-001334

Sheet List Table

Sheet Number	Sheet Title
C00	COVER SHEET
C01	GENERAL NOTES
C02	GENERAL NOTES, TYPICAL SECTION & SUMMARY OF QUANTITIES
C03	SWPPP SITE MAP
C04	SWPPP DETAILS
C05	EXISTING CONDITIONS & REMOVALS PLAN
C06	LAYOUT PLAN
C07	GRADING PLAN
C08	PRIVATE DRIVE PLAN & PROFILE STA. 100+00 TO 103+00
C09	PRIVATE DRIVE PLAN & PROFILE STA. 103+00 TO 105+33
C10	FRSA STANDARD DETAILS
C11	DETAILS
C12	DETAILS
C13	DETAILS
L01	LANDSCAPE PLAN OVERVIEW
L02	LANDSCAPE DETAILS

UTILITY OFFICIALS

PUBLIC WORKS DEPARTMENT:

VILLAGE OF ROSCOE
5402 SWANSON ROAD
ROSCOE, IL 61073
WADE KRETSINGER
SUPERVISOR
(815) 877-0746

SEWER DISTRICT:

FOUR RIVERS SANITATION AUTHORITY
3501 KISHWAUKEE STREET
ROCKFORD, IL 61109
CHRISTOPHER T. BAER, P.E.
DIRECTOR OF ENGINEERING
(815) 387-7660

TELEPHONE:

AT&T MIDWEST
2404 8TH AVENUE
ROCKFORD, IL 61108
HECTOR GARCIA
(630) 639-8372

ELECTRIC:

COM ED
123 ENERGY DRIVE
ROCKFORD, IL 61109
(815) 490-2335

WATER DEPARTMENT:

NORTH PARK PUBLIC WATER DEPARTMENT
1350 TURRET DRIVE
MACHESNEY PARK, IL 61115
(815) 633-5461

CABLE TELEVISION:

COMCAST
4450 KISHWAUKEE STREET
ROCKFORD, IL 61101
THOMAS YUCCAS
(815) 395-8977

GAS:

NICOR GAS
1844 FERRY ROAD
NAPERVILLE, IL 60563
(708) 878-1242



PROJECT NAME
OWNER'S NAME

CLEARWING LOT A PUD

10311 CLEARWING LN
ROSCOE, IL 61073
WINNEBAGO COUNTY

WHITE OAK TRUST
747 GLEASMAN ROAD
ROSCOE, IL 61073

CONSULTANTS

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REVISIONS

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SHEET TITLE

COVER SHEET

DRAWN	MJH
CHECKED	JSL
PM	JSL

PROJECT NUMBER
SHEET NUMBER

24146

C00

26

STORM SEWER NOTES

- Storm sewer shall be constructed in accordance with the following:
 - Standard Specifications for Water and Sewer Main Construction in Illinois" (Standard Specifications), Seventh Edition dated 2014 (and all revisions and supplements thereto)
 - Standards and requirements of Village of Roscoe.
 - Additional details and requirements provided in the contract documents, including this plan set.Where criteria of the aforementioned specifications conflict, the more stringent criteria shall be implemented.
- All storm sewer pipe shall be reinforced concrete pipe unless otherwise specified in this plan set.
- All storm sewer system elements shall conform to the following specifications:
 - Storm pipe:
 - Sump pump service connection and storm sewer extension (4" and 6"):
 - ABS pipe shall be in accordance with ASTM D2751.
 - SDR 35 PVC pipe shall be in accordance with ASTM D3034.
 - Concrete sewer pipe (10" diameter and smaller) shall be Class III (minimum) in accordance with ASTM C14.
 - Reinforced circular concrete pipe (12" diameter and larger) shall be Class III (minimum), wall B, in accordance with ASTM C78.
 - Reinforced concrete arch culvert pipe shall be double-lined reinforced, Class III (minimum) in accordance with ASTM C506.
 - Reinforced concrete elliptical culvert pipe shall be Class HE-III or VE-III (minimum) in accordance with ASTM C507.
 - Underdrain pipe (4" and 6") shall be SDR 35 PVC pipe in accordance with ASTM D2729.
 - Galvanized corrugated steel culvert pipe shall be type B, with a minimum wall thickness of 14 gauge per AASHTO M248 (shall only be used for culverts).
- Joints for storm pipe:
 - ABS pipe joints shall be in accordance with ASTM D2235.
 - PVC pipe joints shall be in accordance with ASTM 3121 (push-on type), except underdrain pipe, which shall have solvent welded joints.
- Casing Pipes:
 - 1/4" thick steel in accordance with ASTM A252, grade 2, or ASTM A139, grade B, or approved equal having a minimum yield strength of 35,000 psi.
- Manholes and Catch Basins:
 - Manholes and catch basins shall be precast reinforced concrete in accordance with ASTM C478.
- Manholes and catch basins shall be sized as follows:
 - D.2.a. For sewers eighteen inches in diameter or less, manholes shall have a forty-eight inch inside diameter.
 - D.2.b. For sewers twenty-one to thirty-six inches in diameter, manholes shall have a sixty inch inside diameter.
 - D.2.c. For sewers greater than thirty-six inches in diameter, manholes shall have a seventy-two inch inside diameter or as specified in this plan set.
- Adjusting rings:
 - D.3.a. No more than 2 precast concrete adjusting rings shall be allowed.
 - D.3.b. Precast concrete adjusting rings shall have a maximum height of 6 inches.
- Seals:
 - D.4.a. For pipe and frame seals, all pipe connection openings shall be made watertight with hydraulic cement. The hydraulic cement sealing pipe connections shall extend the full thickness of the structure wall. Hydraulic cement shall also be applied within the structure from the cone section, past all adjustment rings, to the frame.
- All bottom sections shall be monolithically precast including bases and invert flowlines.
- Inlets:
 - E.1. Inlets shall be precast reinforced concrete in accordance with ASTM C478 and ASTM C443.
 - Inlets shall have a twenty-four inch inside diameter and a maximum depth of four feet.
 - Adjusting rings:
 - No more than 2 precast concrete adjusting rings shall be allowed.
 - Precast concrete adjusting rings shall have a maximum height of 6 inches.
 - Only one pipe connection shall be allowed, and it shall be precast with resilient rubber watertight pipe to manhole sleeves or seals. External flexible watertight sleeves shall also extend from the manhole cone to the manhole frame.
 - Bottom sections: All bottom sections shall be monolithically precast including bases and invert flowlines.
- Castings (Unless otherwise noted within the plans):
 - Unless otherwise specified as a "closed lid", manhole frames and covers shall be as listed below. Close lid frame and covers shall be Neenah R-1916-C embossed "STORM SEWER".
 - Manhole steps shall be Neenah R-1981-N.
 - Six inch curb and gutter inlet shall be Neenah R-3278-A.
 - Yard inlets shall be Neenah R-4340-B.
 - Parking lot inlets shall be Neenah R-2595-A.
 - Crushed Granular Bedding shall be crushed gravel or crushed stone course aggregate in accordance with ASTM C33 (Size No. 57).
- All end sections 24" and greater shall come equipped safety bars per IDOT detail Standard 542411.
- Inspect pipe for defects and cracks before being lowered into the trench, piece by piece. Remove and replace defective, damaged or unsound pipe or pipe that has had its grade disturbed after laying. Protect open ends with a stopper to prevent earth or other material from entering the pipe during construction. Remove dirt, excess water, and other foreign materials from the interior of the pipe during the pipe laying progress.
- Install pipe in accordance with manufacturer's written recommendations.
- Commence installation at the lowest point for each segment of the route. Lay RCP with the groove or bell end up-stream.
- Lay pipe to the required line and slope gradients with the necessary fittings, bends, manhole, risers and other appurtenances placed at the required location as noted on Drawings.
- All storm sewers under and within two feet of any existing or proposed pavement shall be backfilled with granular backfill material IDOT gradation FA-6 or approved equal (Grade B or Grade 5).
- Compact backfill to 98 percent of maximum density in accordance with ASTM D698, (or 95 percent of maximum density, in accordance with ASTM D1557) obtained at optimum moisture as determined by AASHTO T180.
- Do not backfill trenches until required tests are performed and utility systems comply with and are accepted by applicable governing authorities.
- Backfill trenches to contours and elevations shown on the drawings.

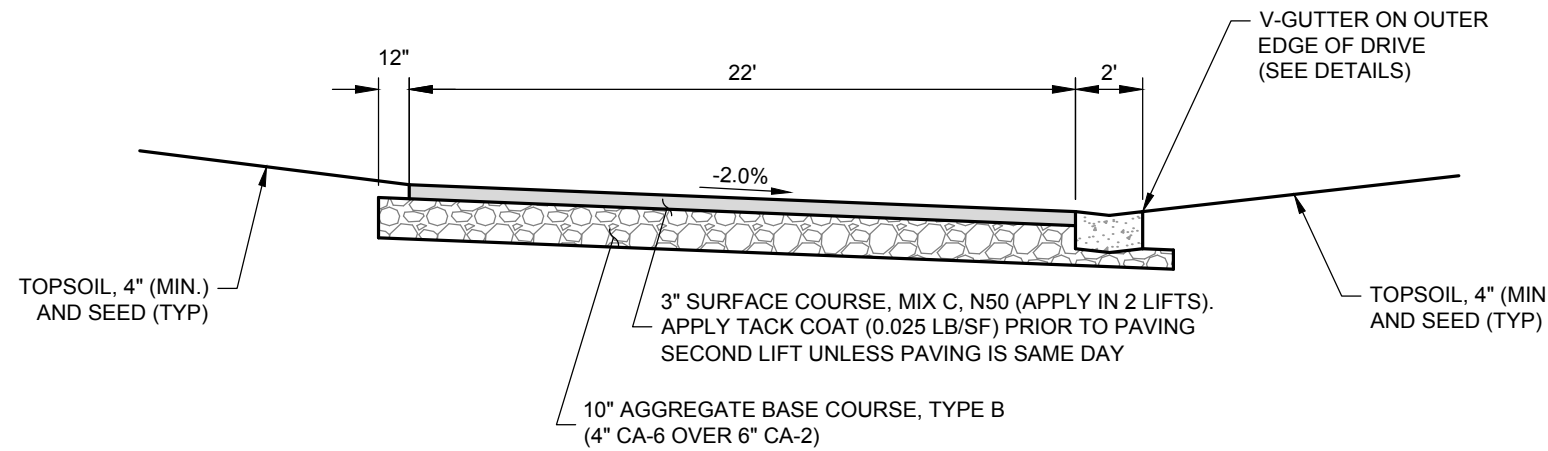
SANITARY SEWER NOTES [FRSA]

- Sanitary sewer notes:
 - The Four Rivers Sanitation Authority (FRSA) shall be notified forty-eight (48) hours before construction of the sanitary sewer can commence. Contact FRSA Survey and Field Operations Mgr. Ben Christiansen, cell 815-209-7952. Any sanitary sewer construction performed in the absence of an FRSA inspector will not be accepted.
 - Notice Allowing Connections must be issued by the FRSA before individual service connections will be permitted under the standard FRSA service connection permit process.
 - The permit holder is responsible for the sanitary sewer system workmanship and materials for two (2) years after the FRSA issued Notice Accepting the Sewer, and for the sanitary sewer trench settlement for a period of three (3) years after the completion of the project.
- Sanitary Sewer shall be constructed in accordance with the following:
 - "Standard Specifications for Water and Sewer Main Construction in Illinois" (Standard Specifications), seventh edition dated 2014, and all revisions and supplements thereto.
 - "General Provisions and Technical Specifications for Sanitary Sewer Construction" in the Four Rivers Sanitation Authority (formerly known as the Sanitary District of Rockford) dated October 24, 1983, and all standards and revisions adopted by the Board of Trustees for said Sanitary District of Rockford.
- Additional details and requirements provided in the contract documents, including this plan set. Where criteria of the aforementioned specifications conflict, the more stringent criteria shall be implemented.
- All PVC sanitary sewer (SDR 26 AND SDR 35) shall meet the requirements of ASTM D-3034 (4"-24") or ASTM F-679 (18"-24") with joints in accordance with ASTM D-3212. All PVC watermain-quality sanitary sewer (SDR 26) shall meet the requirements of ASTM D-2241 with joints in accordance with ASTM D-3139. Pipe bedding for all PVC pipe shall be Class 1A in accordance with ASTM D-2321-74.
- Sanitary sewer services shall be 6" PVC/Watermain Quality SDR 26 in accordance with ASTM D-2241, and shall extend to the limits shown on the plans. Joints between the wye and end of service riser shall be gasketed in accordance with ASTM D-3139. All services shall be sloped from the main at 1% minimum. Mark at backside of cleanout with a 2x4 painted green. End of service risers are required in accordance with the FRSA standard details included in these plans.
- WYE or TEE branches shall be a minimum 7' from the outside of any sanitary manhole and be furnished and installed by the Contractor as shown on the Engineering drawings.
- All testing, fittings, bedding, granular cradle, and trench backfill where necessary shall be included in the unit costs for the installation of the underground facilities unless quantified on plans.
- PVC pipe should be installed with proper bedding providing uniform longitudinal support under the pipe. Bedding material should be worked under the sides of the pipe to provide satisfactory haunching. Initial bedding material should be placed to a minimum depth of one foot over the top of the pipe. All pipe embedment material should be selected and placed carefully, avoiding large stones, frozen lumps, and debris.
- After placement and compaction of pipe embedment materials, the balance of backfill materials may be machine placed and should contain no large stones or rocks, frozen material or debris. Excavated materials free from topsoil may be used in the final trench depth provided they are placed in 9" lifts loose measured and compacted to not less than 95% ASTM D-698 standard proctor.
- All sanitary sewer manholes shall have eccentric cones with the cone openings centered over the pipe. All manholes shall be guaranteed by the contractor for 3 years after FRSA acceptance.
- All sanitary sewer manholes shall be 48-inch diameter precast concrete, unless shown otherwise.
- The allowable infiltration shall not exceed 200 gallons/inch diameter/mile/24 hours.
- Sanitary sewers shall be air-tested in accordance with FRSA requirements.
- All new sanitary sewer manholes shall be vacuum tested in accordance with ASTM C 1244.
- All sanitary sewers under or within two feet of any existing or proposed street pavement or curb shall be backfilled with IDOT approved granular backfill material. Trench backfill shall be placed in lifts not to exceed 9" compacted to 95% of maximum standard proctor density.
- Four Rivers Sanitation Authority shall be notified 48 hours prior to the start of construction and air testing of sanitary sewers. Water main, water services, and storm sewer must be installed and FRSA notified soon after installation before sanitary sewer testing can be performed.
- Trenches must be backfilled to 2' below subgrade and mains and services must have 5' minimum depth of cover over the top of pipe before sanitary sewer testing can be performed.
- Manhole frames shall be provided with self sealing lids, FRSA Logo, Neenah 1670-2004 /-0358 only. Neenah or East Jordan per FRSA Standard Details Sheet (Sheet C10).
- Upon completion of construction, all sanitary manhole castings shall be exposed and set at final grade.
- Exterior manhole seals shall be required on all new manholes including the barrel sections.
- Deflection testing for flexible conduit:
 - All sanitary sewer lines shall be deflection-tested after 30 days following final backfill operations.
 - If the deflection test is to be run using a rigid ball or mandrel, it shall have a diameter equal to 95% of the base diameter of the pipe as established in proposed ASTM D-3034. The test shall be performed without mechanical pulling devices.
 - Wherever possible and practical, the testing shall initiate at the downstream lines and proceed towards the upstream lines.
 - Maximum allowable pipe deflection is 5%. Where deflection is found to be in excess of 5% of the original pipe diameter, the Contractor shall excavate to the point of excess deflection and carefully compact around the point excess deflection was found. The line shall then be retested for deflection. However, should after the initial testing the deflected pipe fail to return to the original size (inside diameter) the line shall be replaced.
- Proposed sanitary sewers shall be separated at least 10' from existing and proposed water mains, water services, storm structures and storm sewers measured from outside edge to outside edge. The top of proposed sanitary sewers shall be at least 18" below the bottom of existing and proposed water mains and storm sewers. When sanitary sewer crosses over water main or storm sewer, the bottom of the sanitary sewer shall be at least 18" above the top of water main or storm sewer.
- Where sanitary sewer depths exceed 12' the contractor shall use the Alternate Service Riser method to install the sewer service line so that the invert of the service, at the property line, is 10.5' below the proposed centerline grade.
- Upon completion of construction all sanitary manhole castings shall be exposed and set to final grade. FRSA must inspect this work.
- Exterior manhole seals will be required as part of manhole adjustments. Flattop manholes are not permitted. No adjusting rings are required outside a paved roadway or in a roadway with curb and gutter. All manholes adjusted or reconstructed where more than two rings are involved will require vacuum testing.
- The Four Rivers Sanitation Authority will furnish a full-time inspector for all sanitary work.
- All fill material in the area of sanitary sewer mains and services must be placed and compacted prior to installation of the sewer mains and services.
- The Four Rivers Sanitation Authority specifies the following for manhole adjustment requirements:
 - A minimum of 4" of adjusting rings (4" adjusting ring not required in turf areas or in full curb and gutter roadways)
 - A maximum of 12" of adjusting rings
 - A maximum of 1- 12" adjusting ring per manhole.
 - A maximum of 30" from the top of casting to the first step
- Notes: Adjustment by grooving is not permitted. Where the roadway agency of jurisdiction allows, rubber adjusting rings shall be used
- Labeled pipe lengths are from center of manhole to center of manhole.
- The length of the public sewer shall be the distance from the center of the downstream manhole to the center of the upstream manhole. The slope of the public sewer and inverts of the sewer at the manholes shall be based on the distance between the outside faces of the manholes.
- All watermain and watermain services shall be installed before the sanitary sewer is air and deflection tested.
- FRSA must receive a satisfactory utility plan for gas, electricity, cable TV, telephone, etc. in order to ensure that these utilities will not conflict with the proposed sanitary sewer locations.

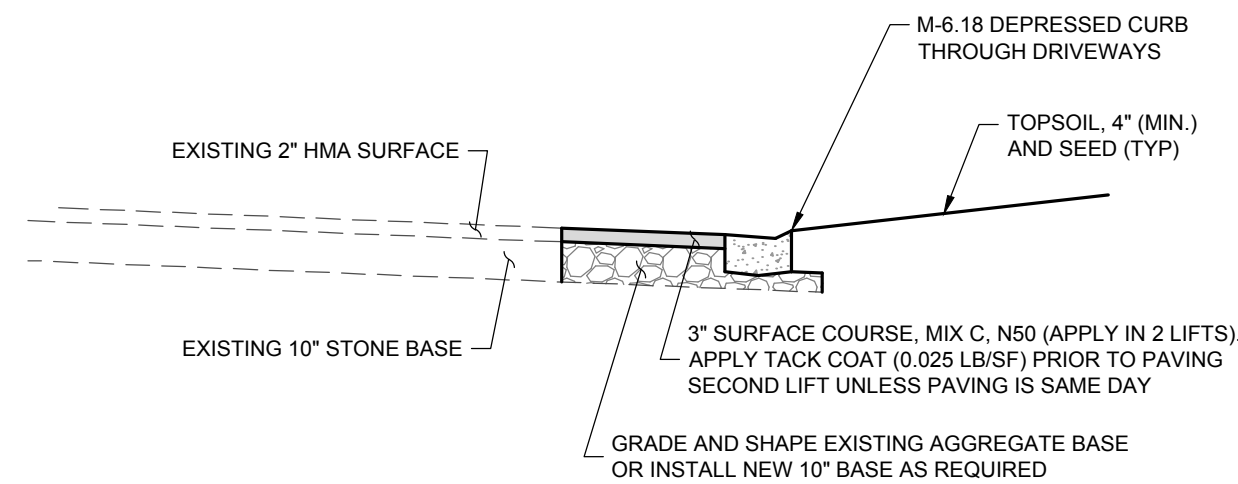
Sanitary Sewer Service Connection

- Contractor must complete a standard FRSA Industrial/Commercial (IC) application and submit to FRSA for approval of the sewers shown as part of the building connection permitting process.
- The contractor shall coordinate all FRSA fees associated with this project. the contractor shall pay all application fees, and should be reimbursed by the owner. Contractor shall provide the owner with a written breakdown of all FRSA fees with evidence of payment.
- FRSA will require inspection of the sewer installation. Contractor shall coordinate this work directly with FRSA. Owner shall pay for all inspection fees.
- All sanitary sewer, manholes, services and other appurtenances shall be installed as required by the FRSA and/or the Village contractor is responsible for familiarizing himself with the specific requirements for materials and construction for these two agencies.
- The Village of Roscoe may also require inspection of the building connections. the contractor shall coordinate all Village inspections with the Roscoe building inspector, if needed.
- Contractor to install 6" services from main to designated point of connection as shown on the plans as part of sewer installation.
- FRSA sanitary sewer service connection permits will not be issued under the Standard FRSA process until after the FRSA has issued a "Notice Allowing Connections".

SUMMARY OF QUANTITIES



TYPICAL SECTION - PRIVATE DRIVE



TYPICAL SECTION - CLEARWING LANE PATCH

PROJECT NAME
OWNER'S NAMECLEARWING
LOT A PUD10311 CLEARWING LN
ROSCOE, IL 61073
WINNEBAGO COUNTYWHITE OAK TRUST
747 GLEASMAN ROAD
ROSCOE, IL 61073

CONSULTANTS

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GENERAL NOTES,
TYPICAL SECTION &
SUMMARY OF
QUANTITIESDRAWN M.J.H.
CHECKED J.S.L.
PM J.S.L.PROJECT NUMBER
SHEET NUMBER

24146

C02

PROJECT NAME
OWNER'S NAMECLEARWING
LOT A PUD10311 CLEARWING LN
ROSCOE, IL 61073
WINNEBAGO COUNTYWHITE OAK TRUST
747 GLEASMAN ROAD
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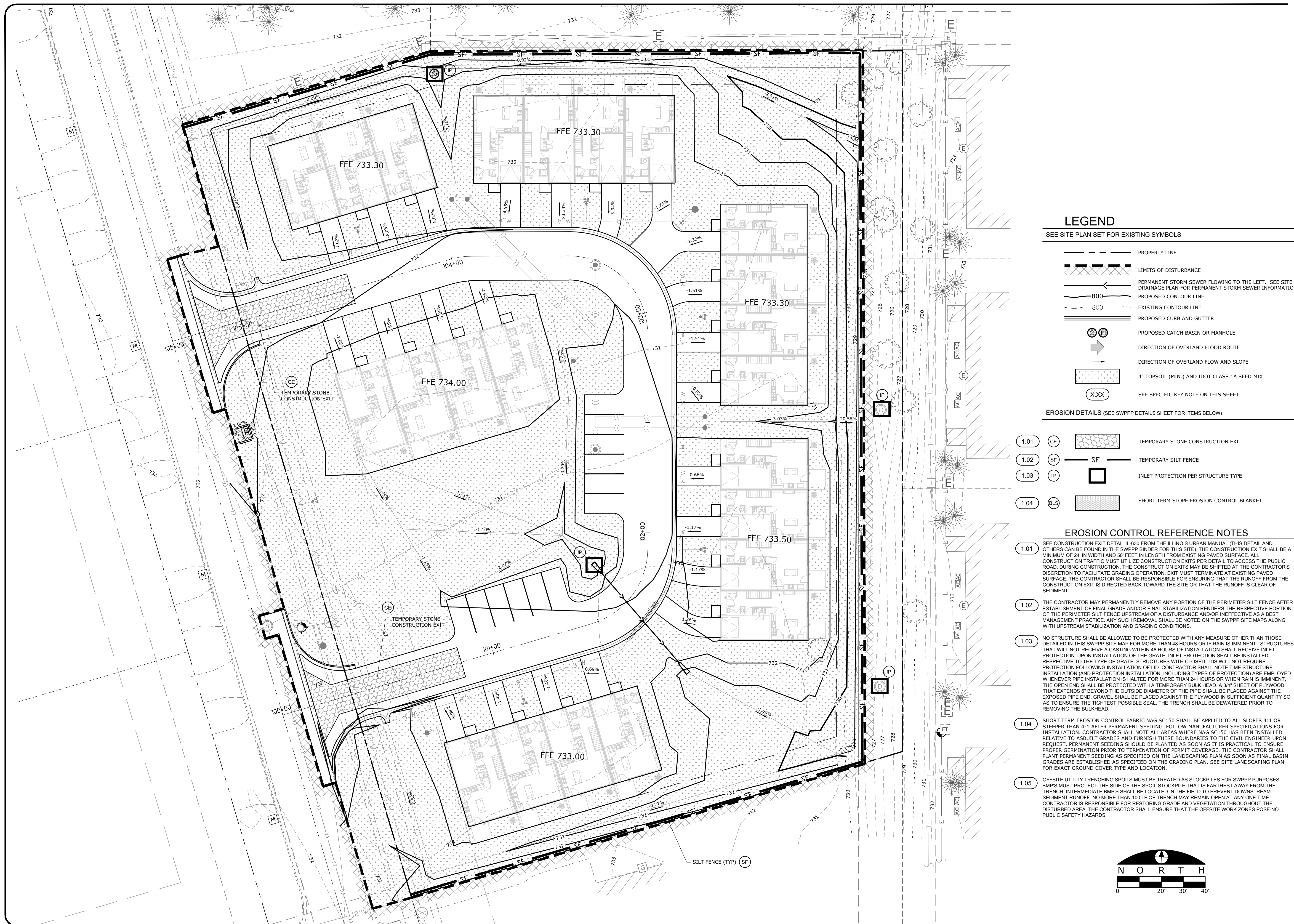
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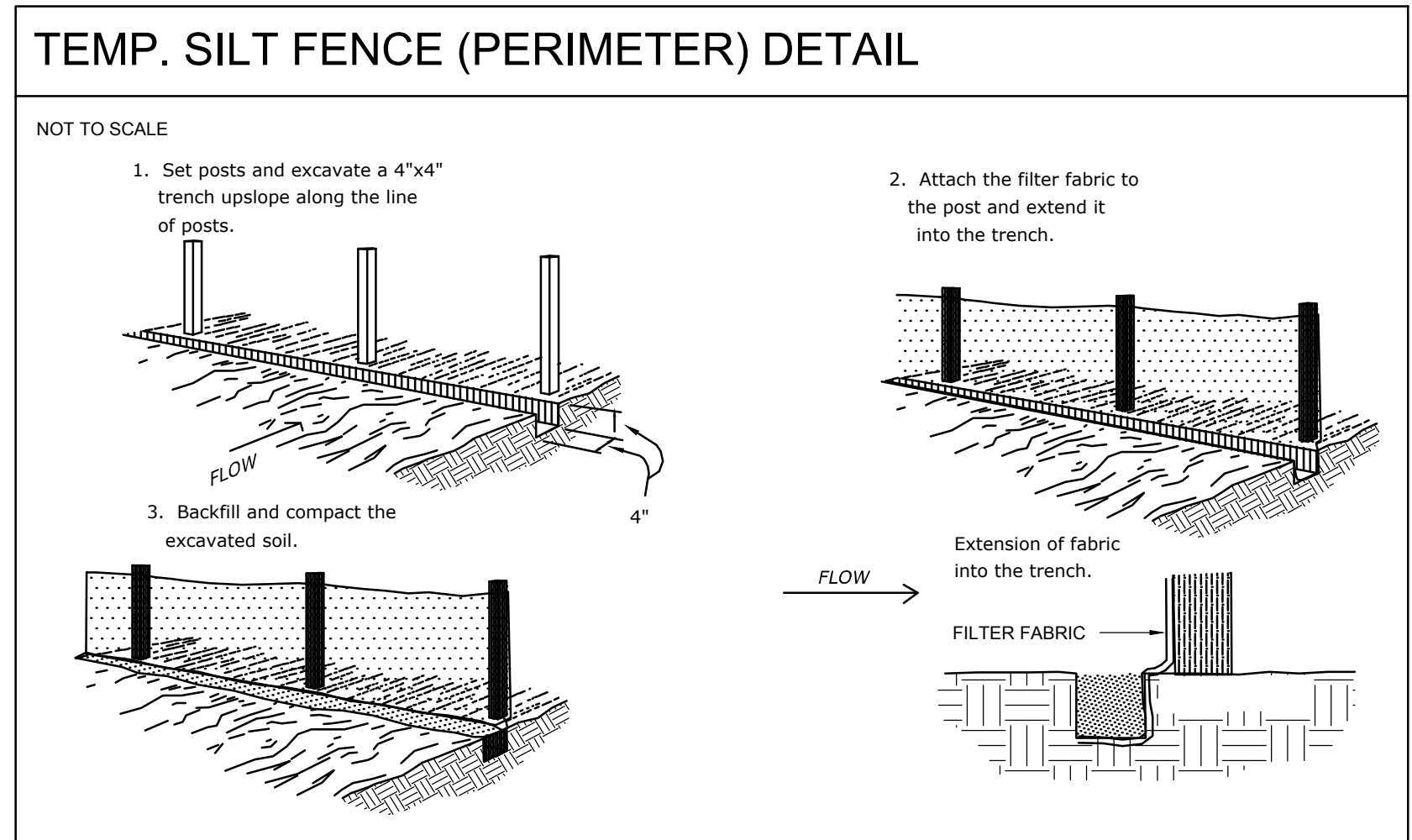
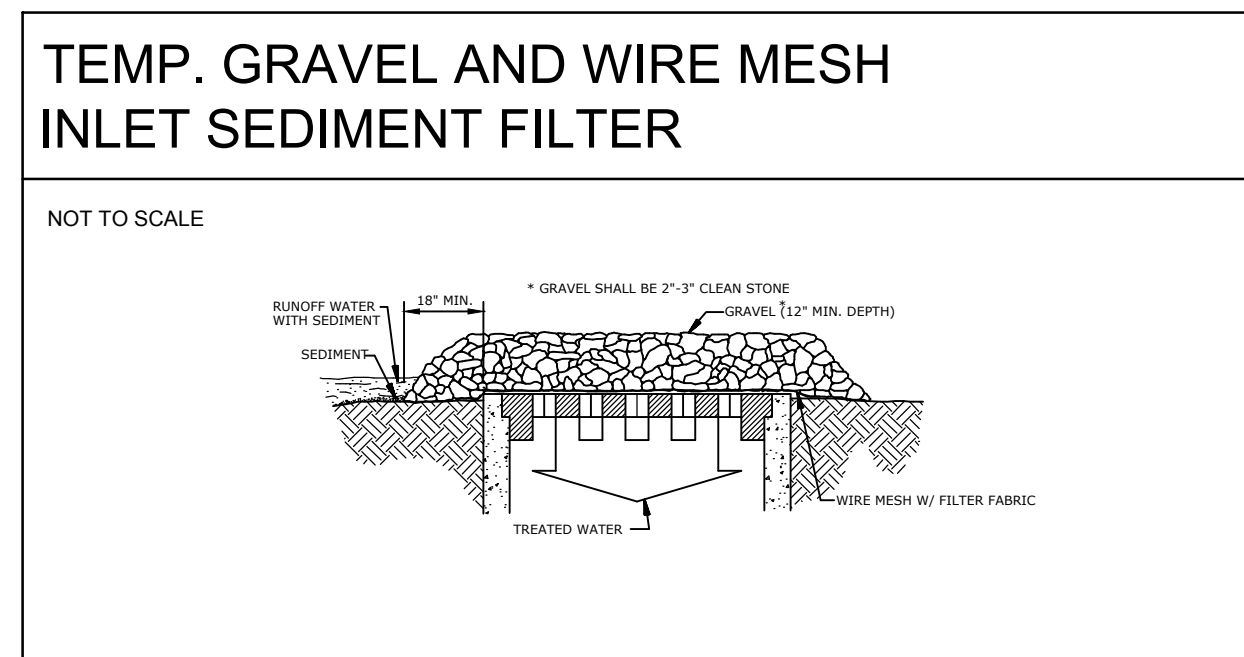
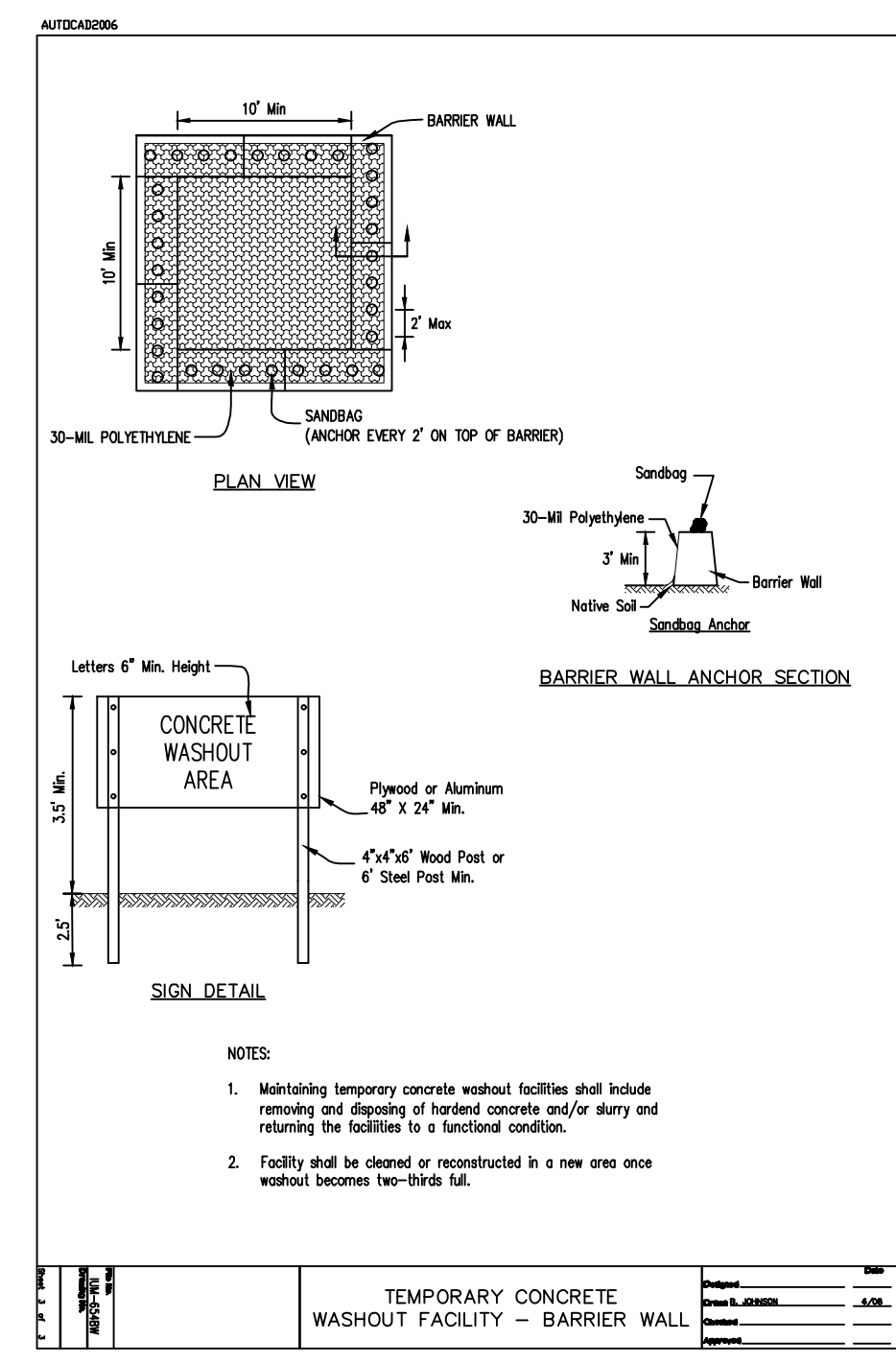
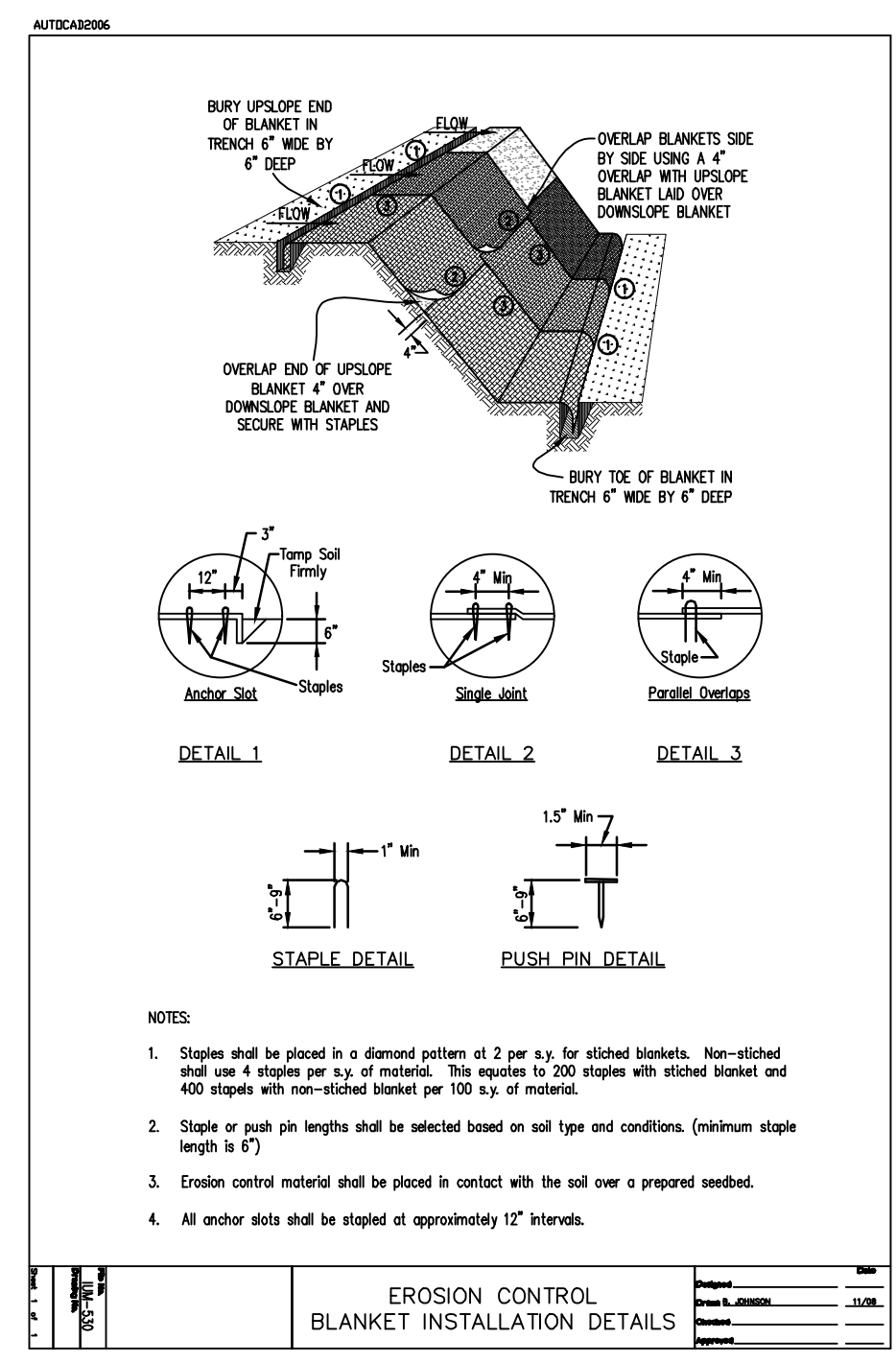
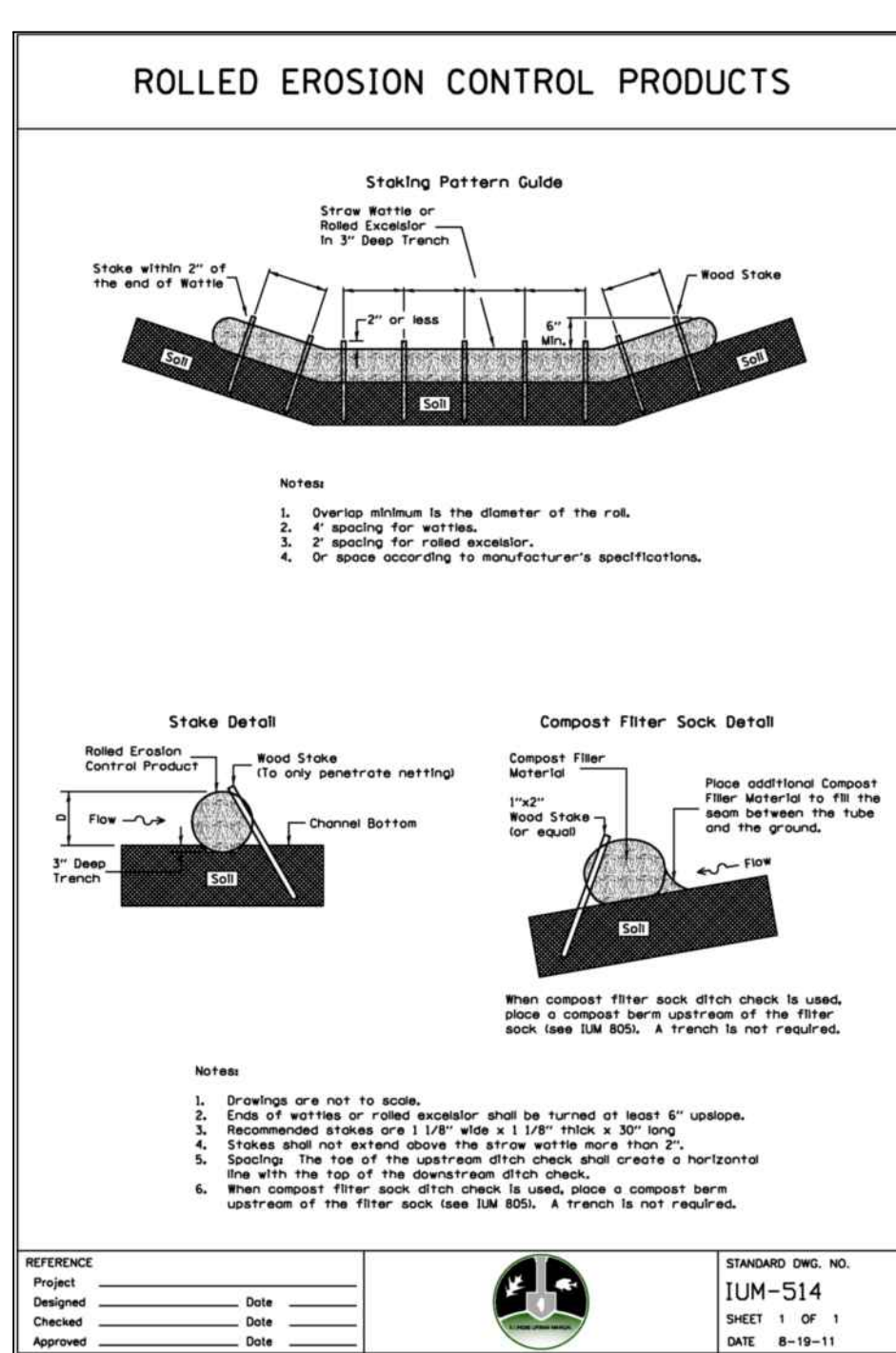
SWPPP SITE MAP

DRAWN MJH
CHECKED JSL
PM JSLPROJECT NUMBER
SHEET NUMBER

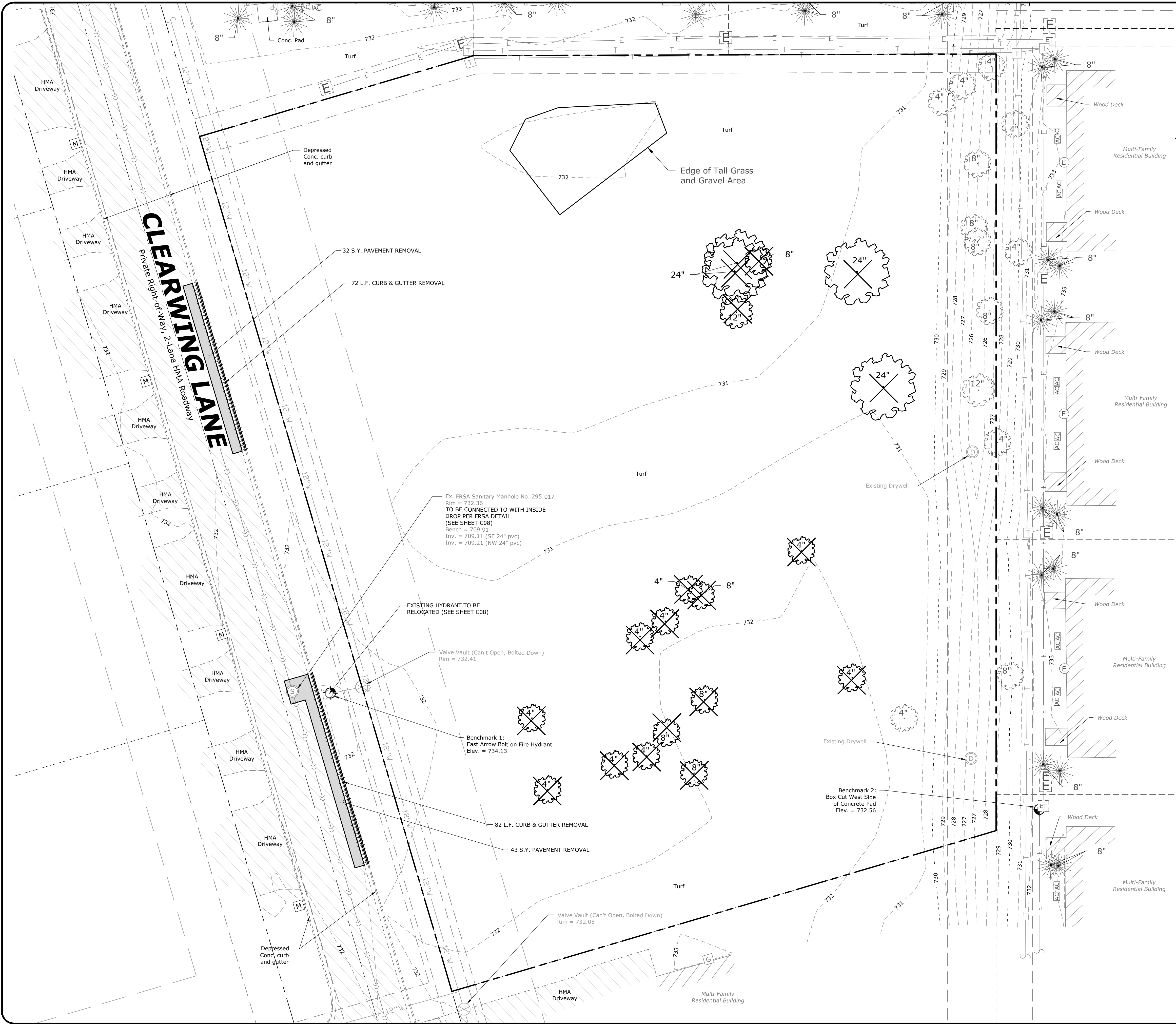
24146

C03





29



LEGEND

---	PROPERTY LINE
---	LOT LINE
---	EXISTING RIGHT-OF-WAY
---	EXISTING EASEMENT LINE
---	EXISTING CURB AND GUTTER
---	REMOVE EXISTING CURB AND GUTTER
---	EXISTING SANITARY SEWER TO REMAIN
---	REMOVE EXISTING SANITARY SEWER
---	EXISTING STORM SEWER TO REMAIN
---	REMOVE EXISTING STORM SEWER
---	EXISTING WATER TO REMAIN
---	REMOVE EXISTING WATER
---	EXISTING OVERHEAD UTILITIES TO REMAIN
---	REMOVE EXISTING OVERHEAD UTILITIES
---	EXISTING GAS MAIN TO REMAIN
---	REMOVE EXISTING GAS MAIN
---	EXISTING FENCE TO REMAIN
---	REMOVE EXISTING FENCE
---	EXISTING CONTOUR LINE
---	REMOVE EXISTING PAVEMENT, CONCRETE SIDEWALKS OR FOUNDATIONS
(SVG)	"SALVAGE"
(TYP)	"TYPICAL" FOR ALL SIMILAR ITEMS
---	EXISTING WATER TO REMAIN
---	REMOVE EXISTING WATER
---	EXISTING SIGN TO REMAIN
---	REMOVE EXISTING SIGN
---	EXISTING GAS METER TO REMAIN
---	REMOVE EXISTING GAS METER
---	EXISTING ELECTRIC METER TO REMAIN
---	REMOVE EXISTING ELECTRIC METER
---	EXISTING STORM SEWER TO REMAIN
---	REMOVE EXISTING STORM SEWER
---	EXISTING SANITARY SEWER TO REMAIN
---	REMOVE EXISTING SANITARY SEWER
---	BENCHMARK
---	EXISTING TRAFFIC SIGNAL MAST ARM
---	EXISTING SIGNAL CONTROLLER
---	EXISTING LIGHT POLE TO REMAIN
---	REMOVE EXISTING LIGHT POLE
---	REMOVE EXISTING SHRUBS
---	REMOVE EXISTING TREE
---	EXISTING TREE TO REMAIN

BENCHMARKS

DESCRIPTION	ELEVATION (USGS)
BENCHMARK 1 EAST ARROW BOLT ON FIRE HYDRANT ADJACENT TO SITE ALONG CLEARWING LANE	734.13
BENCHMARK 2 BOX CUT WEST SIDE OF CONCRETE PAD NEAR SOUTHEAST CORNER OF SITE	732.56

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PROJECT NAME
OWNER'S NAME

**CLEARWING
LOT A PUD**

10311 CLEARWING LN
ROSCOE, IL 61073
WINNEBAGO COUNTY

WHITE OAK TRUST
747 GLEASMAN ROAD
ROSCOE, IL 61073

CONSULTANTS

ISSUED FOR

1. OWNER REVIEW	DATE
2. AGENCY APPROVAL	11-14-2024
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SHEET TITLE

**EXISTING
CONDITIONS &
REMOVALS PLAN**

DRAWN M.J.H.
CHECKED J.S.L.
PM J.S.L.

PROJECT NUMBER
SHEET NUMBER

24146
C05

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SHEET TITLE

LAYOUT PLAN

DRAWN

MJH

CHECKED

JSL

PM

JSL

PROJECT NUMBER
SHEET NUMBER

24146

C06

LEGEND

- PROPERTY LINE
- LOT LINE
- EXISTING RIGHT-OF-WAY
- EXISTING EASEMENT LINE
- PROPOSED EASEMENT LINE
- EXISTING CURB AND GUTTER
- PROPOSED CURB AND GUTTER
- X X

EXISTING FENCE

12

NUMBER OF PROPOSED PARKING SPACES IN A ROWPROPOSED PARKING STALLSPROPOSED STANDARD DUTY ASPHALT PAVEMENTPROPOSED TURF AREA
(4" TOPSOIL (MIN.) AND IDOT CLASS 1A SEED MIX)

LAYOUT NOTES

- THE CONTRACTOR SHALL FIELD VERIFY THE ELEVATIONS OF THE BENCHMARKS PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL ALSO FIELD VERIFY LOCATION AND ELEVATION OF EXISTING PIPE INVERTS, FLOOR ELEVATIONS, CURB OR PAVEMENT WHERE MATCHING INTO EXISTING WORK. THE CONTRACTOR SHALL FIELD VERIFY HORIZONTAL CONTROL BY REFERENCING SHOWN COORDINATES TO KNOWN PROPERTY LINES. NOTIFY ENGINEER OF DISCREPANCIES IN EITHER VERTICAL OR HORIZONTAL CONTROL PRIOR TO PROCEEDING WITH WORK.
- REFER TO ARCHITECTURAL PLANS FOR EXACT BUILDING DIMENSIONS.
- DIMENSIONS THAT LOCATE THE BUILDING ARE MEASURED TO THE OUTSIDE FACE OF THE BUILDING.
- COORDINATE WORK WITHIN CLEARWING LANE ROW WITH THE VILLAGE OF ROSCOE. TRAFFIC CONTROL SHALL CONFORM TO IDOT STANDARDS FOR WORK WITHIN THE R.O.W.
- ALL RADII ARE DIMENSIONED TO THE EDGE OF PAVEMENT.
- REFER TO THE DETAIL SHEETS FOR V-GUTTER AND FLUME DETAILS.
- SOME FIELD ADJUSTMENTS MAY BE NECESSARY AT POINTS WHERE PROPOSED PAVEMENT, CURB AND SIDEWALKS MEET EXISTING PAVEMENT, CURB AND SIDEWALKS. REVIEW ANY REQUIRED CHANGES WITH ENGINEER PRIOR TO CONSTRUCTION OF WORK.
- FOR REQUIRED PAVEMENT REMOVAL ADJACENT TO THE CURB AND GUTTER REMOVAL WITHIN RIGHT OF WAY, A FULL DEPTH SAWCUT SHALL BE UTILIZED AND SHALL NOT BE LESS THAN 2' IN WIDTH.

BENCHMARKS

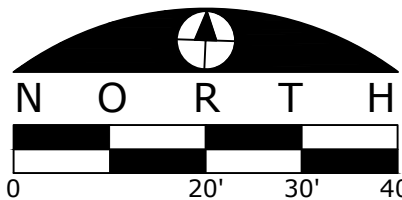
DESCRIPTION	ELEVATION (USGS)
BENCHMARK 1 EAST ARROW BOLT ON FIRE HYDRANT ADJACENT TO SITE ALONG CLEARWING LANE	734.13
BENCHMARK 2 BOX CUT WEST SIDE OF CONCRETE PAD NEAR SOUTHEAST CORNER OF SITE	732.56

BENCHMARKS ESTABLISHED FROM WinGIS MONUMENTATION:
WinGIS STATION # 38 WIN 18.1N-7.1E, ELEVATION = 734.185

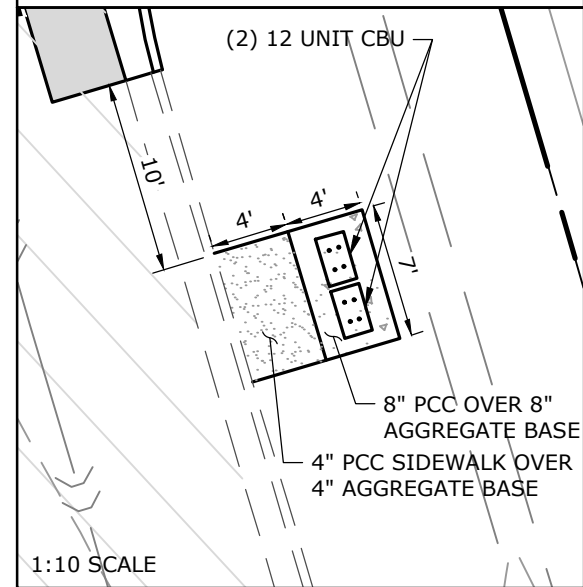
(1) 3-FAMILY HOME
(5) 4-FAMILY HOMES

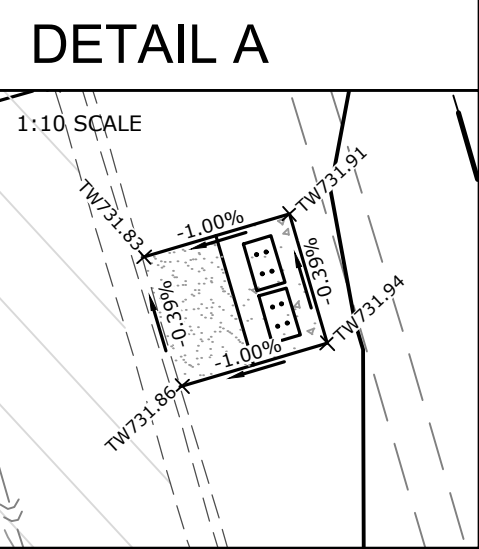
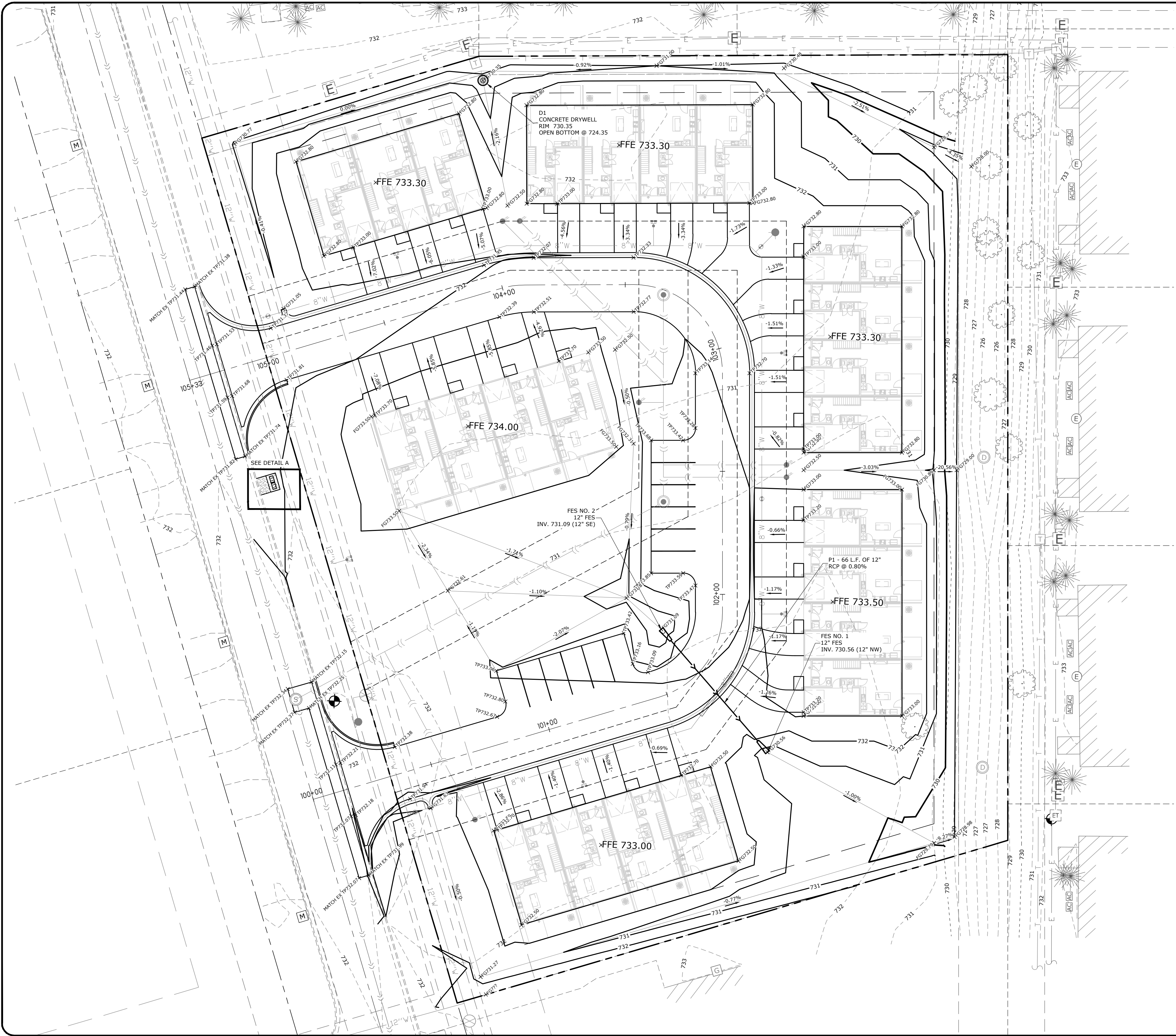
23 TOTAL UNITS

PARKING REQUIREMENT:
2.5 STALLS PER UNIT
2.5 * 23 UNITS = 58 STALLS
GARAGE STALLS = 23
DRIVEWAY STALLS = 23
ADDITIONAL STALLS = 12
TOTAL STALLS = 58



DETAIL A





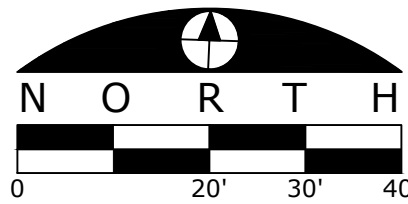
GARAGE DOOR OPENINGS
ARE 0.30' BELOW FFE (TYP)

LEGEND

- PROPERTY LINE
- LOT LINE
- EXISTING RIGHT-OF-WAY
- PROPOSED CURB AND GUTTER
- EXISTING CURB AND GUTTER
- PROPOSED STORM SEWER
- EXISTING STORM SEWER
- PROPOSED GRADE BREAK LINE
- PROPOSED CONTOUR LINE
- EXISTING CONTOUR LINE
- PROPOSED CATCH BASIN OR MANHOLE
- PROPOSED CLEANOUT
- DIRECTION OF SHEET FLOW
- TOP OF WALK ELEVATION
- TOP OF PAVEMENT ELEVATION
- FINISHED GRADE ELEVATION
- TOP OF WALL ELEVATION
- BOTTOM OF WALL ELEVATION
- BENCHMARK
- EMERGENCY OVERLAND FLOW ROUTE

GRADING NOTES

- THE CONTRACTOR SHALL FIELD VERIFY THE ELEVATIONS OF THE BENCHMARKS PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL ALSO FIELD VERIFY LOCATION AND ELEVATION OF EXISTING PIPE INVERTS, FLOOR ELEVATIONS CURB OR PAVEMENT WHERE MATCHING INTO EXISTING WORK. THE CONTRACTOR SHALL FIELD VERIFY HORIZONTAL OR VERTICAL CONTROL BY REFERENCING SHOWN COORDINATES OR ELEVATIONS TO HORIZONTAL OR VERTICAL CONTROL POINTS PRIOR TO PROCEEDING WITH WORK.
- ALL UNSURFACED AREAS ARE TO RECEIVE FOUR INCHES OF TOPSOIL AND SODDED (OR SEEDED WHERE NOTED) AND WATERED UNTIL A HEALTHY STAND OF GRASS IS OBTAINED.
- ALL STORM SEWER PIPE IS TO BE REINFORCED CONCRETE CULVERT PIPE CLASS IV UNLESS OTHERWISE NOTED. WHERE HDPE OR PVC PIPE IS LISTED AS ACCEPTABLE MATERIALS, PVC SDR 35, HDPE DOUBLE WALL (ADS N-12), OR PVC SCHEDULE 40 MAY BE USED AT THE CONTRACTOR'S DISCRETION.
- THE MAXIMUM SLOPE RATIO ON CUT/FILL SLOPES IS 3.5 HORIZONTAL TO 1 VERTICAL.
- PROPERTY CORNERS SHALL BE CAREFULLY PROTECTED UNTIL THEY HAVE BEEN REFERENCED BY A PROFESSIONAL LAND SURVEYOR. PROPERTY MONUMENTS DISTURBED BY THE CONTRACTOR'S OPERATION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL SET ALL CLEANOUT, MANHOLE AND INLET CASTINGS, FIRE HYDRANTS AND VALVE BOXES TO FINISHED GRADE.
- ALL PROPOSED PAVED AREAS SHALL BE STRIPPED OF ALL TOPSOIL AND UNSUITABLE MATERIAL AND EXCAVATED OR FILLED TO WITHIN 0.10 FEET OF DESIGN SUBGRADE.
- THE EARTHWORK CONTRACTOR IS RESPONSIBLE FOR MAINTAINING POSITIVE DRAINAGE AT THE CONCLUSION OF EACH WORKING DAY.



ARC DESIGN
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PROJECT NAME
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**CLEARWING
LOT A PUD**

10311 CLEARWING LN
ROSCOE, IL 61073
WINNEBAGO COUNTY

WHITE OAK TRUST
747 GLEASMAN ROAD
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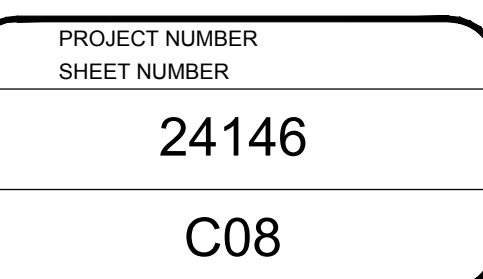
GRADING PLAN

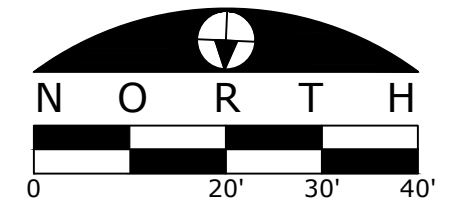
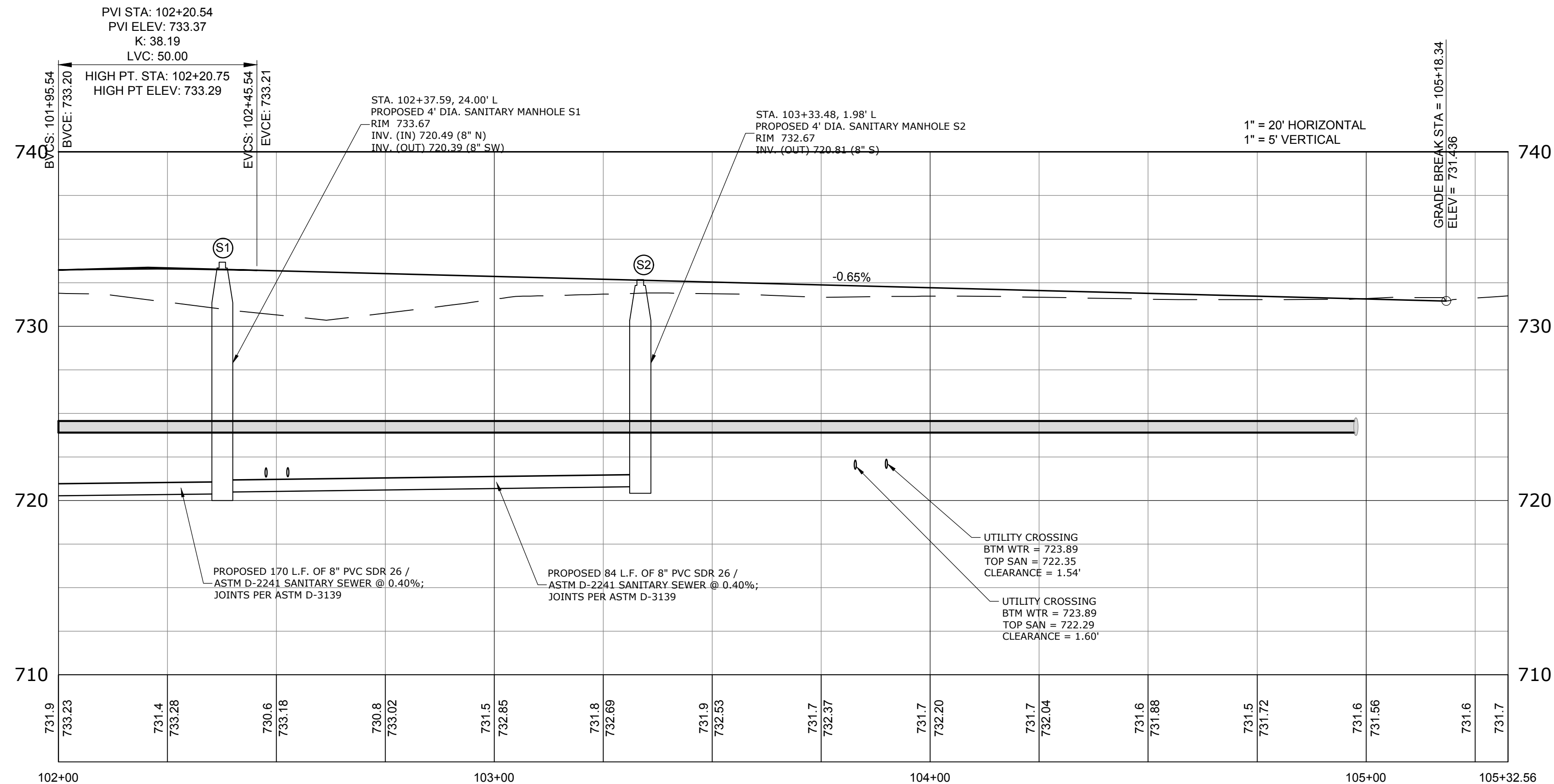
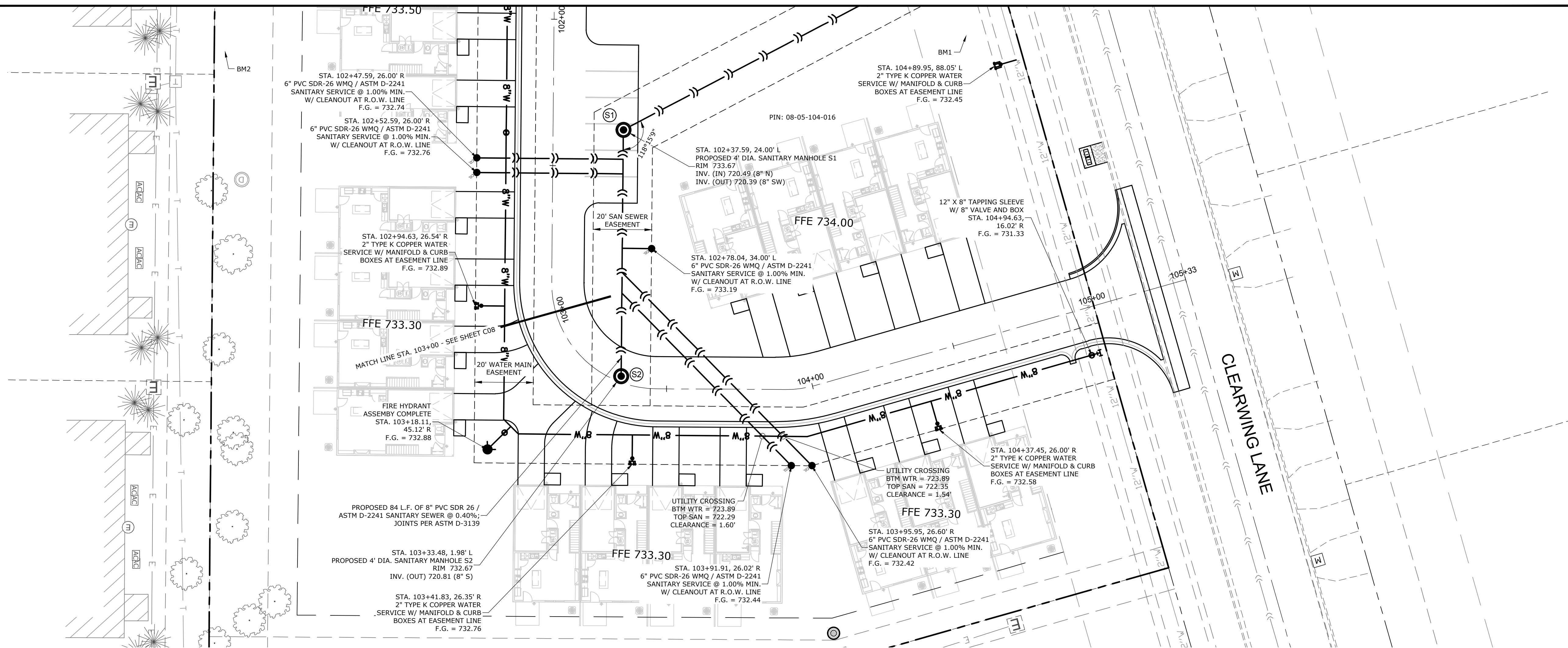
DRAWN	MJH
CHECKED	JSL
PM	JSL

PROJECT NUMBER
SHEET NUMBER

24146

C07





BENCHMARKS	
DESCRIPTION	ELEVATION (USGS)
BENCHMARK 1 EAST ARROW BOLT ON FIRE HYDRANT ADJACENT TO SITE ALONG CLEARWING LANE	734.13
BENCHMARK 2 BOX CUT WEST SIDE OF CONCRETE PAD NEAR SOUTHEAST CORNER OF SITE	732.56

BENCHMARKS ESTABLISHED FROM WinGIS MONUMENTATION:
WinGIS STATION # 38 WIN 18.1N-7.1E, ELEVATION = 734.185

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CLEARWING
LOT A PUD

10311 CLEARWING LN
ROSCOE, IL 61073
WINNEBAGO COUNTY

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SHEET TITLE

PRIVATE DRIVE
PLAN & PROFILE
STA. 103+00 TO
105+33

DRAWN MJH

CHECKED JSL

PM JSL

PROJECT NUMBER
SHEET NUMBER

24146

C09



PROJECT NAME
OWNER'S NAME

CLEARWING LOT A PUD

10311 CLEARWING LN
ROSCOE, IL 61073
WINNEBAGO COUNTY

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747 GLEASMAN ROAD
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FRSA STANDARD DETAILS

DRAWN M.J.H.
CHECKED J.S.L.
PM J.S.L.

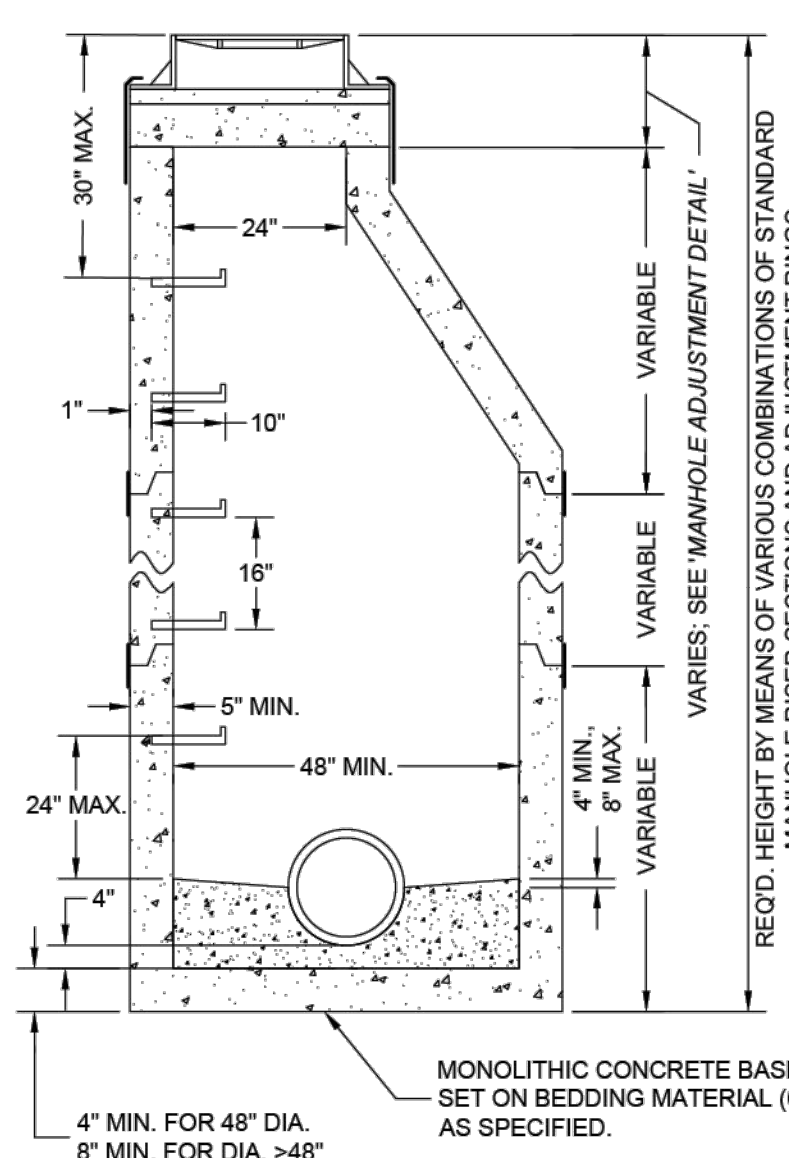
PROJECT NUMBER
SHEET NUMBER

24146

C10

NOTES:

1. THE MAX. DROP FROM THE INVERT OF ANY PIPE TO THE CONCRETE CHANNEL UNDER THAT PIPE SHALL BE 8".
2. MANHOLES LOCATED OUTSIDE OF PUBLIC RIGHT-OF-WAY SHALL BE MARKED WITH A STEEL FENCE POST AS DIRECTED.
3. ALL NEW MANHOLES SHALL BE VACUUM TESTED PER A.S.T.M. C-1244 PRIOR TO ACCEPTANCE.
4. ALL BARREL JOINTS SHALL BE SEALED WITH 3 1/2" x 3/4" PRE-FORMED RUBBER BUTYL JOINT SEALANT ON THE LOWER SHIPLAP.
5. ALL BARREL JOINTS SHALL BE SEALED WITH AN EXTERNAL BARREL SEAL CENTERED ON THE JOINT (MAR MAC MACWRAP, OR APPROVED EQUAL).
6. MANHOLE STRUCTURE SHALL BE CONSTRUCTED OF PRECAST REINFORCED CONCRETE MANHOLE RISER SECTIONS IN ACCORDANCE WITH A.S.T.M. C478-90 OR THE LATEST DESIGNATION.
7. PRECAST FLAT TOPS ARE NOT APPROVED FOR USE.
8. SEE 'MANHOLE ADJUSTMENT DETAIL' FOR ADJUSTMENT REQUIREMENTS.
9. PIPE CONNECTIONS TO NEW MANHOLES SHALL BE MADE BY MEANS OF EITHER RUBBER GASKET SEAL (A-LOK OR APPROVED EQUAL) CONFORMING TO ASTM C-923 CAST INTEGRALLY IN MANHOLE WALL, OR RUBBER GASKET SEAL AND STAINLESS STEEL CLAMP (PSX SERIES SIX OR APPROVED EQUAL) CONFORMING TO ASTM C-923. FOR PIPE CONNECTIONS WITH A DEPTH OF >20 FT., A RUBBER GASKET SEAL (A-LOK OR APPROVED EQUAL) CONFORMING TO ASTM C-923 CAST INTEGRALLY IN MANHOLE WALL SHALL BE USED.
10. PIPE CONNECTIONS TO EXISTING MANHOLES SHALL BE MADE BY MEANS OF CORE DRILLING MANHOLE WALL AND INSTALLING RUBBER GASKET SEAL AND STAINLESS STEEL CLAMP (PSX SERIES SIX OR APPROVED EQUAL) CONFORMING TO ASTM C-923.
11. THE MAXIMUM DISTANCE FROM ANY INLET PIPE INVERT TO THE OUTLET PIPE INVERT SHALL BE 2'. DISTANCES GREATER THAN 2' WILL REQUIRE AN INSIDE DROP CONNECTION PER 'INSIDE DROP CONNECTION DETAIL'.
12. MANHOLE STEPS SHALL BE NEENAH R-1962-F OR M.A. IND. PS-1 OR APPROVED EQUAL INSTALLED AT 16" CENTERS, ORIENTED ABOVE THE OUTLET PIPE UNLESS OTHERWISE SPECIFIED. FOR MANHOLES WITH INSIDE DROP ASSEMBLIES, STEPS IN THE MANHOLE BASE SECTION SHALL BE INSTALLED IN THE FIELD AND NOT CAST IN PLACE. IN THIS CASE, THE ORIENTATION OF THE CONE SHALL BE AS DIRECTED BY FRSA.



STANDARD MANHOLE DETAIL (MANHOLE ADJUSTMENT DETAIL SHALL APPLY)

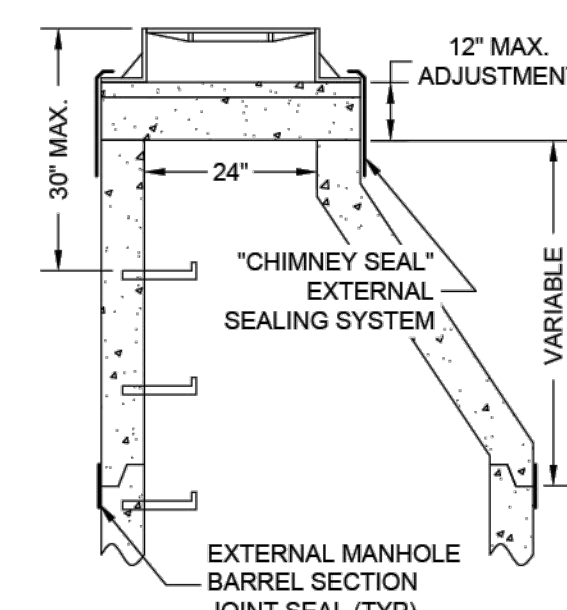
NOTES:

1. MANHOLE FRAMES & LIDS SHALL BE PER THE TABLE BELOW.
2. FOR MANHOLES CONNECTED TO MAINS 18" DIAMETER OR LARGER, OR FOR MANHOLES LOCATED IN FLOOD PRONE AREAS, FRAMES & LIDS SHALL BE THE BOLT DOWN TYPE.
3. ALLOWABLE TYPES OF ADJUSTING RINGS INCLUDE PRECAST CONCRETE (4" HEIGHT MIN.), & EXPANDED POLYPROPYLENE (EPP). THESE CAN BE USED IN CONJUNCTION WITH EACH OTHER, EXCEPT THAT A PRECAST RING SHALL NOT BE PLACED OVER AN EPP RING.
4. FOR PRECAST ADJUSTING RINGS, ALL ADJUSTING RING JOINTS AS WELL AS THE FRAME TO ADJUSTING RING JOINT SHALL BE SEALED WITH TWO 1" BEADS OF PRE-FORMED RUBBER BUTYL JOINT SEALANT. WHEN A FRAME REQUIRES PITCHING, EPP TAPER RINGS SHALL BE USED PER NOTE 5.
5. FOR EPP ADJUSTING RINGS, RINGS SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S INSTRUCTIONS. WHEN A FRAME REQUIRES PITCHING, THE TOP RING SHALL BE A TAPERED ADJUSTMENT RING PER MANUFACTURER'S INSTRUCTIONS.
6. NO TARRING OR GROUTING IS ALLOWED ON THE INSIDE OF MANHOLE OR ADJUSTMENT JOINTS.
7. MAXIMUM MANHOLE ADJUSTMENT IS 12". MINIMUM ADJUSTMENT IS 4" UNLESS OFF-ROAD OR IN CURB & GUTTER ROADWAY.
8. MANHOLE FRAMES SHALL BE SET 1/4" MIN. TO 3/8" MAX. BELOW PAVED SURFACES, AND AT FINAL GRADE IN TURF AREAS.
9. WHEN ADJUSTING EXISTING MANHOLES, THE ENTIRE EXISTING ADJUSTMENT SHALL BE REMOVED AND REPLACED.
10. THE COMBINATION OF NEW ADJUSTING RINGS

SHALL BE SUCH THAT THE MINIMUM NUMBER OF RINGS POSSIBLE ARE USED.

11. FLAT-TOPS ARE NOT PERMITTED ON 4' OR 5' DIA. MANHOLES.
12. REPLACEMENT OF EXISTING BARREL SECTIONS MAY BE REQUIRED TO MEET THE ABOVE REQUIREMENTS.
13. MANHOLE ADJUSTMENT INSERT RISER RINGS ARE NOT APPROVED FOR USE.

APPROVED FRAME & LID TABLE				
TYPE	NEENAH FRAME	NEENAH LID	EAST JORDAN FRAME	EAST JORDAN LID
REGULAR	1670-2004	R-1670-0358	00111711	00111732
LOW PROFILE	1670-2008	R-1670-0358	---	---
BOLT DOWN	1915J108	---	---	---



MANHOLE ADJUSTMENT DETAIL (FOR ADJUSTMENT OF BOTH NEW & EXISTING MANHOLES)

DROP BOWL & DROP PIPE SIZING TABLE

INLET PIPE DIA.	DROP PIPE DIA. (MIN.)
4-6 INCH	4 INCH
8 INCH	6 INCH
10 INCH	8 INCH
>10 INCH	*

* PER MFG. OR AS DIRECTED BY FRSA

SEE 'STANDARD MANHOLE DETAIL' FOR MANHOLE REQUIREMENTS

RELINER INSIDE DROP ROUND BACK BOWL SECURED WITH 4 STAINLESS STEEL BOLTS (OR APPROVED EQUAL)

MANHOLE PIPE CONNECTION BY MEANS OF RUBBER GASKET SEAL & STAINLESS STEEL CLAMP IN ACCORDANCE WITH A.S.T.M. C-923. (PSX SERIES SIX OR EQUAL)

FLEXIBLE COUPLING WITH SS BANDS

RELINER 1 1/2" WIDE STAINLESS STEEL BRACKETS ATTACHED TO MH WALL WITH 2 STAINLESS STEEL BOLTS AT 3' INTERVALS (MIN. OF 2 PER DROP)

GLUED ELBOW FITTING EMBEDDED IN CONCRETE AT 45° TO SEWER FLOW OR AS DIRECTED.

DROP PIPE INVERT ELEV. SHALL MATCH SPRINGLINE OF EXIT PIPE

INSIDE DROP CONNECTION DETAIL (STANDARD MANHOLE DETAIL SHALL APPLY)

NOTES:

1. INSIDE DROP TYPE MANHOLES SHALL BE 5' MIN. INSIDE DIA.
2. ALL INSIDE DROP CONNECTIONS FOR SERVICES AND COLLECTOR SEWERS SHALL USE THE DROP AS MFG. BY RELINER-DURAN INC., OR EQUAL.
3. SEE TABLE FOR DROP BOWL AND DROP PIPE SIZES.
4. ALL INSIDE DROP PIPING SHALL BE PVC SDR35 ASTM-D3034.
5. ATTACH THE ROUND BACK DROP BOWL AND EACH CLAMPING BRACKET TO THE MANHOLE WALL WITH 3/8" x 1" MIN. STAINLESS STEEL BOLTS AND EPOXY IMPREGNATED LUGS PER MFR.'S RECOMMENDATIONS.
6. THE DROP BOWL SHALL BE PLACED AT A HEIGHT SO THAT THE FLOW LINE OF THE BOWL IS 2 INCHES BELOW THE INVERT OF THE INCOMING PIPE.
7. CUT A 1" DEEP BY 3" WIDE "V" NOTCH IN INVERT OF INLET PIPE.
8. CUT THE TOP HALF OF THE INLET PIPE FLUSH WITH THE INSIDE OF THE MANHOLE WALL.
9. ALTERNATE INSIDE DROP SYSTEMS MAY BE CONSIDERED FOR APPROVAL.

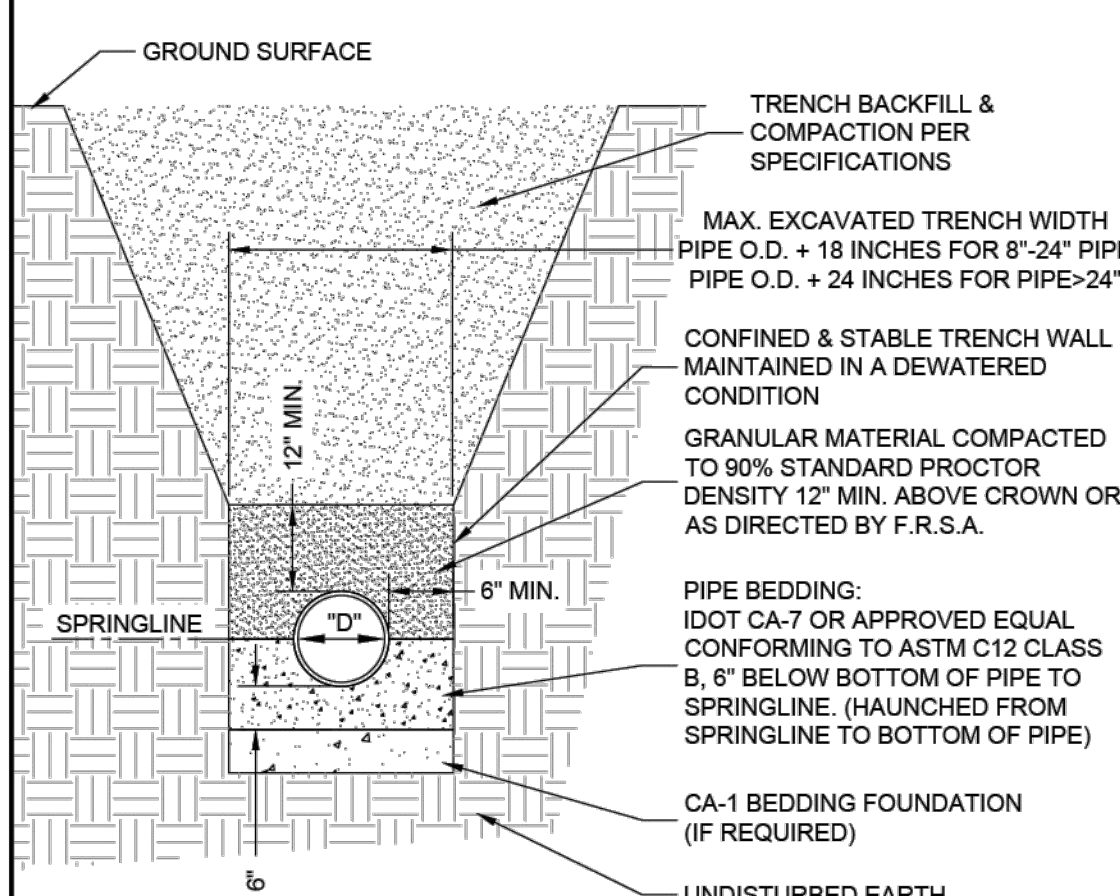
NOTES:

1. FOR NEW MAINLINE, FACTORY PVC WYE FITTING SHALL BE USED.
2. FOR EX. MAINLINE, HOLE SHALL BE CORE DRILLED IN THE MAINLINE PIPE PER MFR.'S REQUIREMENTS. LOCATION OF CORE SHALL BE APPROVED BY THE ENGINEER.
3. PIPE BEDDING FOR SANITARY SERVICE PIPING SHALL BE PER 'FLEXIBLE PIPE BEDDING DETAIL', 6" BELOW AND 12" ABOVE PIPING.
4. THE REMAINDER OF SERVICE TO PROPERTY/EASEMENT LINE SHALL BE INSTALLED PER STANDARD SERVICE & ALTERNATE SERVICE DETAIL.
5. THE COMPRESSION FITTING SHALL BE A WATER-TIGHT FLEXIBLE TEE CONNECTOR OF SPECIFIED SIZE. (INSERT A-TEE OR APPROVED EQUAL).
6. UNDERGROUND MAGNETIC MARKERS SHALL BE BERNSTEN INTERNATIONAL DEEP-1UG OR FRSA APPROVED EQUAL.

VERTICAL SERVICE RISER DETAIL (FOR MAINLINE DIA. 8" - 18"; CONNECTION TO >18" MAIN PROHIBITED)

NOTES:

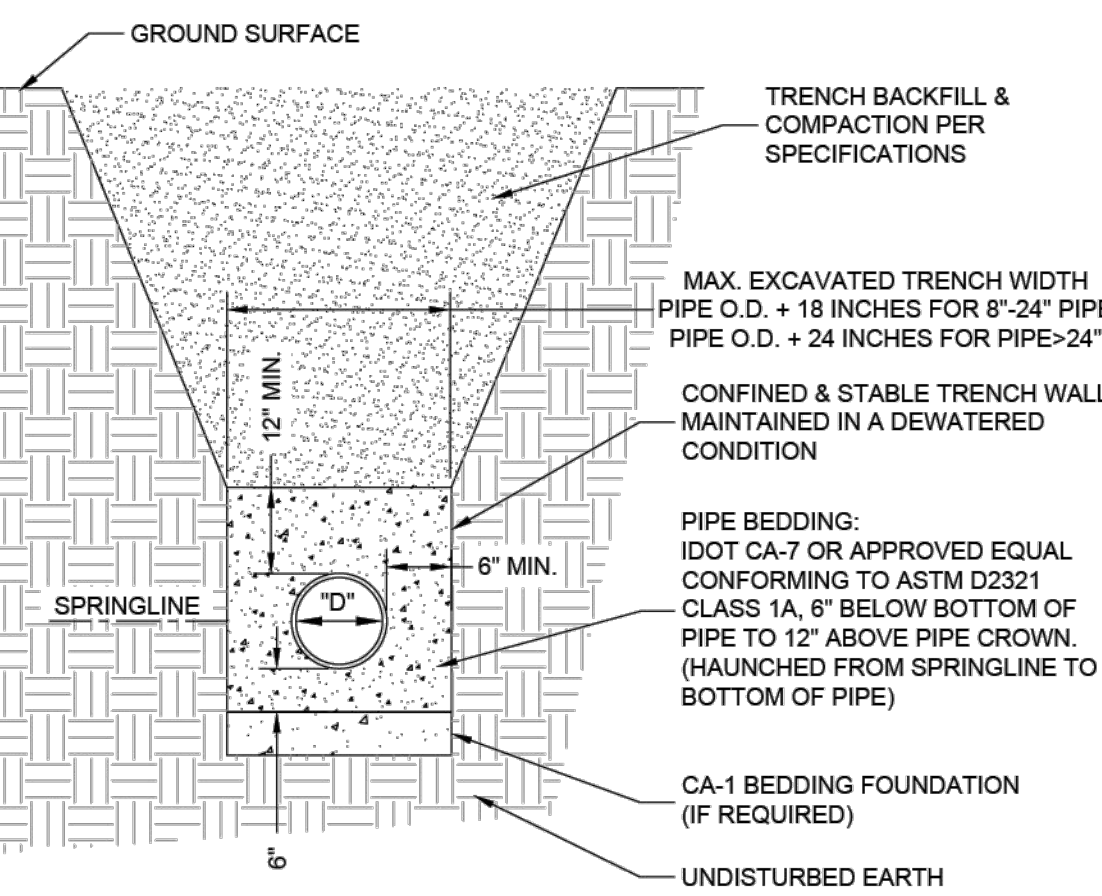
1. REASONABLE CARE SHALL BE USED WHEN BACKFILLING OVER SEWER. NO MATERIALS SUCH AS ROCKS OR BOULDERS SHALL BE PLACED WITHIN 24" OF THE CROWN OF THE PIPE. NO MATERIAL LARGER THAN 8" DIA. SHALL BE USED IN THE BACKFILL.
2. LOOSE MATERIAL SHALL BE REMOVED OR COMPACTED PRIOR TO PLACING PIPE BEDDING.
3. BEDDING SHALL BE WELL HAUNCHED ALONG PIPE TO ENSURE VOIDS ARE ELIMINATED.



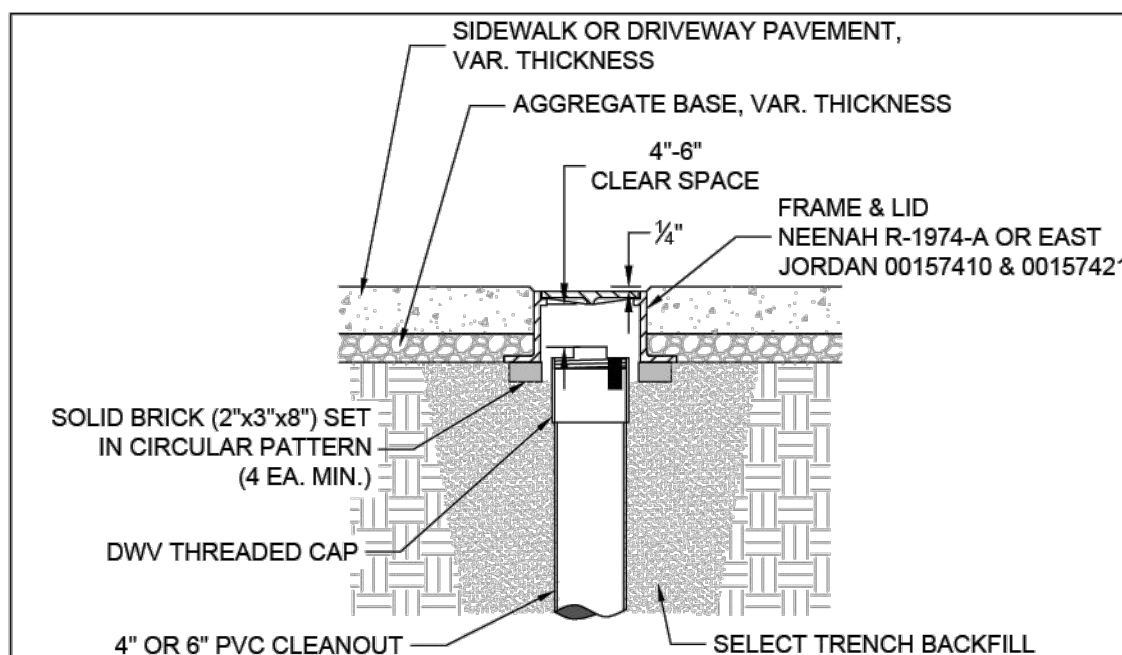
RIGID PIPE BEDDING DETAIL

NOTES:

1. REASONABLE CARE SHALL BE USED WHEN BACKFILLING OVER SEWER. NO MATERIALS SUCH AS ROCKS OR BOULDERS SHALL BE PLACED WITHIN 24" OF THE CROWN OF THE PIPE. NO MATERIAL LARGER THAN 8" DIA. SHALL BE USED IN THE BACKFILL.
2. LOOSE MATERIAL TO BE REMOVED OR COMPACTED PRIOR TO PLACING PIPE BEDDING.
3. BEDDING SHALL BE WELL HAUNCHED ALONG PIPE TO ENSURE VOIDS ARE ELIMINATED.



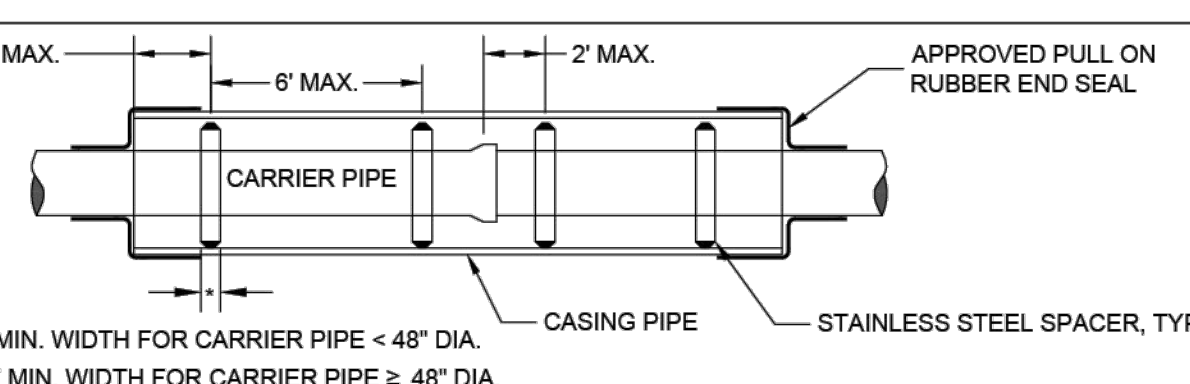
FLEXIBLE PIPE BEDDING DETAIL



NOTES:

1. SERVICE CLEANOUT CASTINGS ARE REQUIRED FOR ALL CLEANOUTS LOCATED IN PAVED AREAS, DRIVEWAYS, OR SIDEWALKS.
2. THE LOCATION OF THE CLEANOUT SHALL BE APPROVED BY FOUR RIVERS SANITATION AUTHORITY (FRSA).
3. THE FRAME SHALL BE SET ON BRICKS THAT ARE PLACED IN A CIRCULAR PATTERN THE ENTIRE CIRCUMFERENCE OF THE FRAME. THE BRICKS SHALL BE SET ON COMPACTED TRENCH BACKFILL.
4. THE FRAME SHALL BE SET TO AN ELEVATION THAT PROVIDES 4"-6" CLEAR SPACE BETWEEN THE TOP OF THE CLEANOUT CAP AND THE BOTTOM OF THE CASTING LID.
5. THE CONTRACTOR SHALL ENSURE THAT THE CLEANOUT CAP CAN BE UNSCREWED AND REMOVED AND REPLACED WITHOUT HINDRANCE.
6. THE FRAME SHALL BE SET 1/4" MIN. TO 3/8" MAX. BELOW FINAL PAVEMENT ELEVATION.

SERVICE CLEANOUT CASTING DETAIL



* 8" MIN. WIDTH FOR CARRIER PIPE < 48" DIA.
12" MIN. WIDTH FOR CARRIER PIPE ≥ 48" DIA.

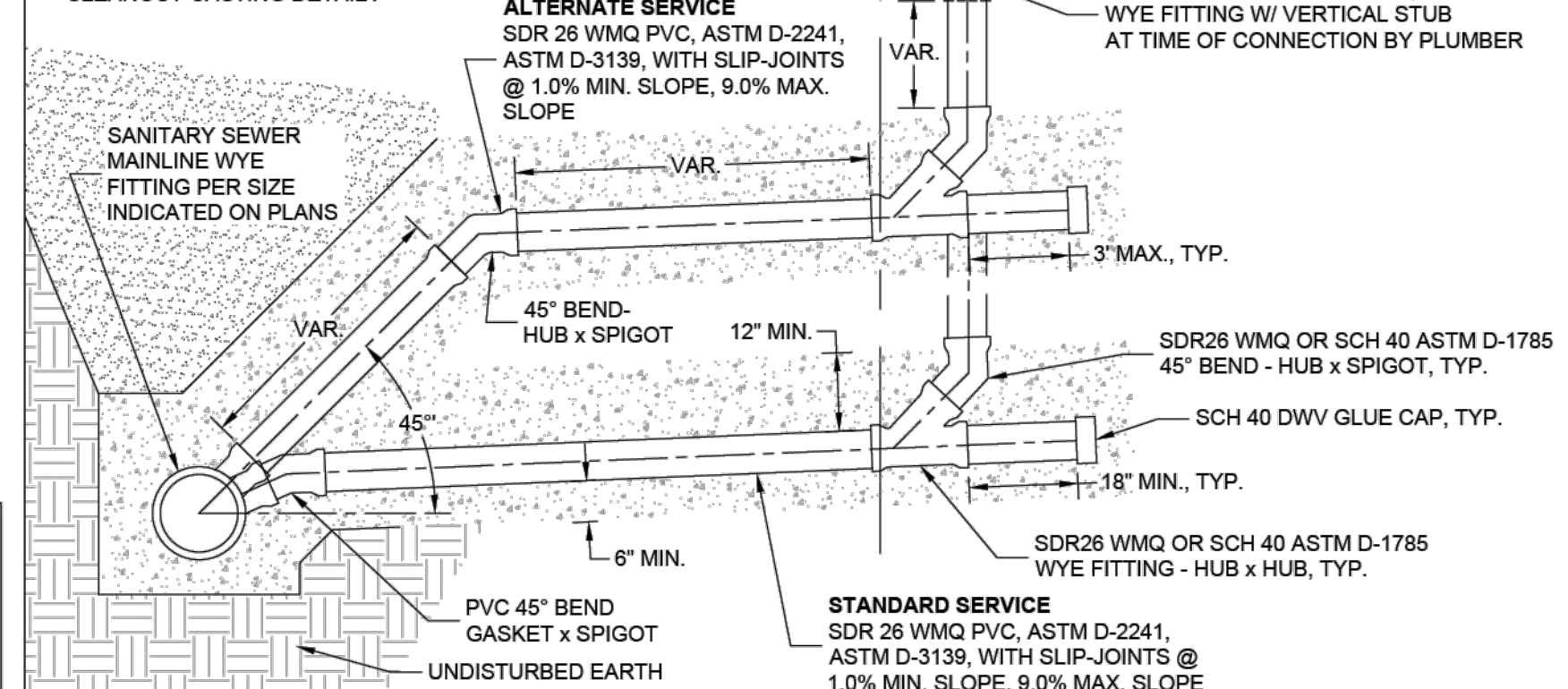
NOTES:

1. CASING END SEALS & SPACERS SHALL BE AS MFD. BY CASCADE MFG., OR APPROVED EQUAL.
2. FOR FLEXIBLE CARRIER PIPE, SPACING OF SPACERS TO BE AS SHOWN, OR PER MFR.'S RECOMMENDATION.
3. FOR RIGID CARRIER PIPE, SPACING SHALL BE PER MFR.'S RECOMMENDATION.

CASING & SPACER DETAIL

NOTES:

1. SANITARY SEWER MAINLINE SHALL BE INSTALLED PER 'FLEXIBLE PIPE BEDDING DETAIL' OR 'RIGID PIPE BEDDING DETAIL'.
2. PIPE BEDDING FOR SANITARY SERVICE PIPING SHALL BE PER 'FLEXIBLE PIPE BEDDING DETAIL', 6" BELOW AND 12" ABOVE PIPING.
3. ALL SCH 40 PVC PIPE & FITTINGS SHALL BE PER ASTM D-1785/D-2685.
4. ALL SDR28 WMQ PVC PIPE & FITTINGS SHALL BE PER ASTM D-2241/D-3139.
5. ALL DWV FITTINGS SHALL BE CLEANED, PRIMED, & GLUED.
6. MIN. DEPTH OF COVER SHALL BE 5'.
7. CLEANOUT CAP SHALL BE SCH 40 DWV GLUED CAP FOR NEW DEVELOPMENT OR SCH 40 GLUED SCREW CAP FOR EX. DEVELOPMENT.
8. CLEANOUT RISERS LOCATED IN PAVED AREAS, DRIVEWAYS, OR SIDEWALKS SHALL WILL REQUIRE A CLEANOUT FRAME & LID PER THE FRSA 'SERVICE CLEANOUT CASTING DETAIL'.



STANDARD SERVICE & ALTERNATE SERVICE DETAIL (FOR MAINLINE DIA. 8" - 18"; CONNECTION TO >18" MAIN PROHIBITED)

FOUR RIVERS SANITATION AUTHORITY (FRSA) STANDARD DETAIL SHEET (NOT TO SCALE)

3501 KISHWAUKEE ST.
ROCKFORD, ILLINOIS 61109 PH. (815) 387-7660

ISSUE
05/01/2023

01/07/2023: Revisions: Revised notes 1 & 2 with acceptable frames & lids. Modified notes 3, 5, 6 & 7. Added note 8. Revised Rock River Reclamation District to Four Rivers Sanitation Authority. Added note 9. Added note 10. Added note 11. Added note 12. Added note 13. Added note 14. Added note 15. Added note 16. Added note 17. Added note 18. Added note 19. Added note 20. Added note 21. Added note 22. Added note 23. Added note 24. Added note 25. Added note 26. Added note 27. Added note 28. Added note 29. Added note 30. Added note 31. Added note 32. Added note 33. Added note 34. Added note 35. Added note 36. Added note 37. Added note 38. Added note 39. Added note 40. Added note 41. Added note 42. Added note 43. Added note 44. Added note 45. Added note 46. Added note 47. Added note 48. Added note 49. Added note 50. Added note 51. Added note 52. Added note 53. Added note 54. Added note 55. Added note 56. Added note 57. Added note 58. Added note 59. Added note 60. Added note 61. 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PROJECT NAME
 OWNER'S NAME

**CLEARWING
 LOT A PUD**

 10311 CLEARWING LN
 ROSCOE, IL 61073
 WINNEBAGO COUNTY

 WHITE OAK TRUST
 747 GLEASMAN ROAD
 ROSCOE, IL 61073

CONSULTANTS

ISSUED FOR

DATE

1. OWNER REVIEW	11-14-2024
2. AGENCY APPROVAL	01-14-2025
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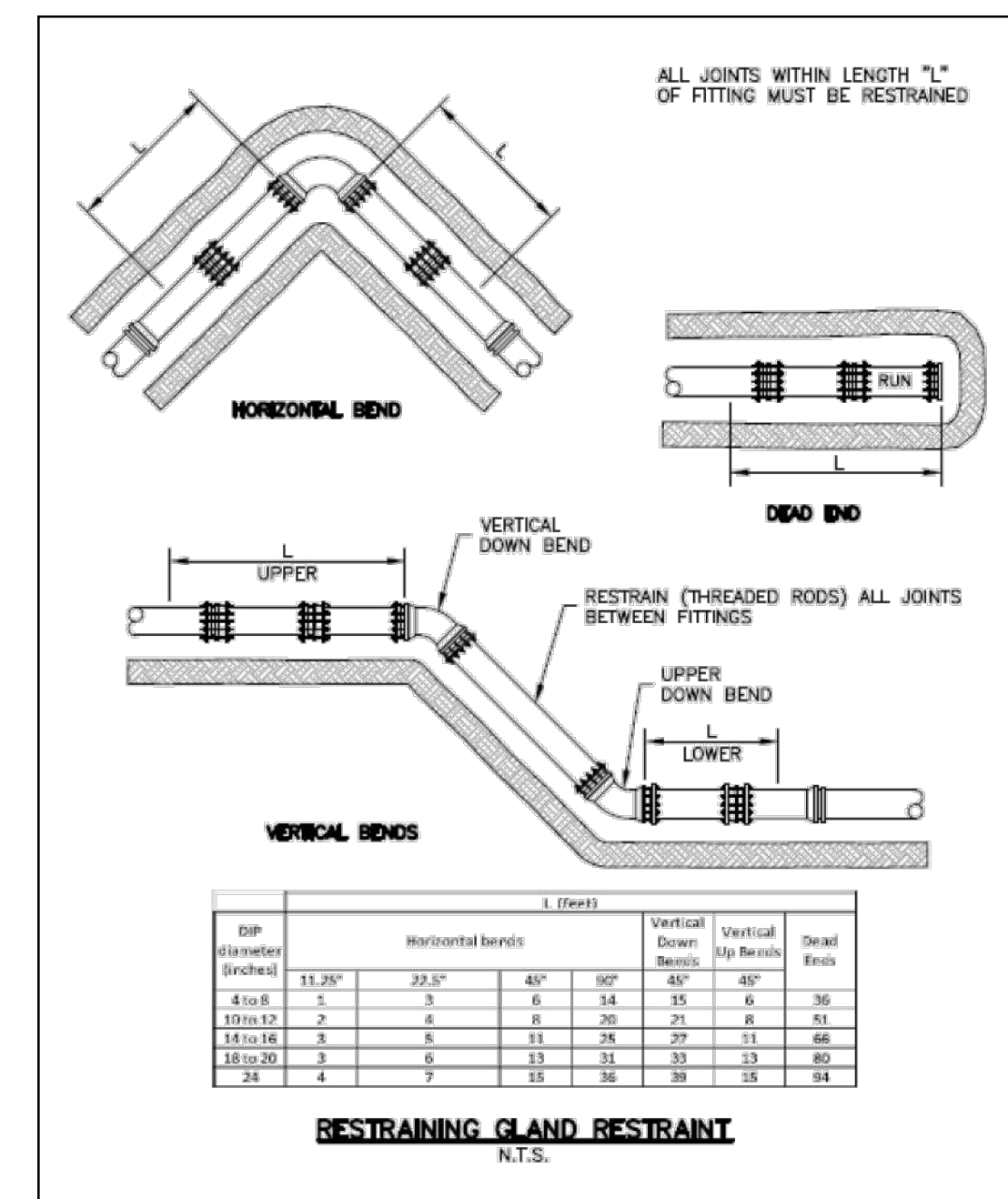
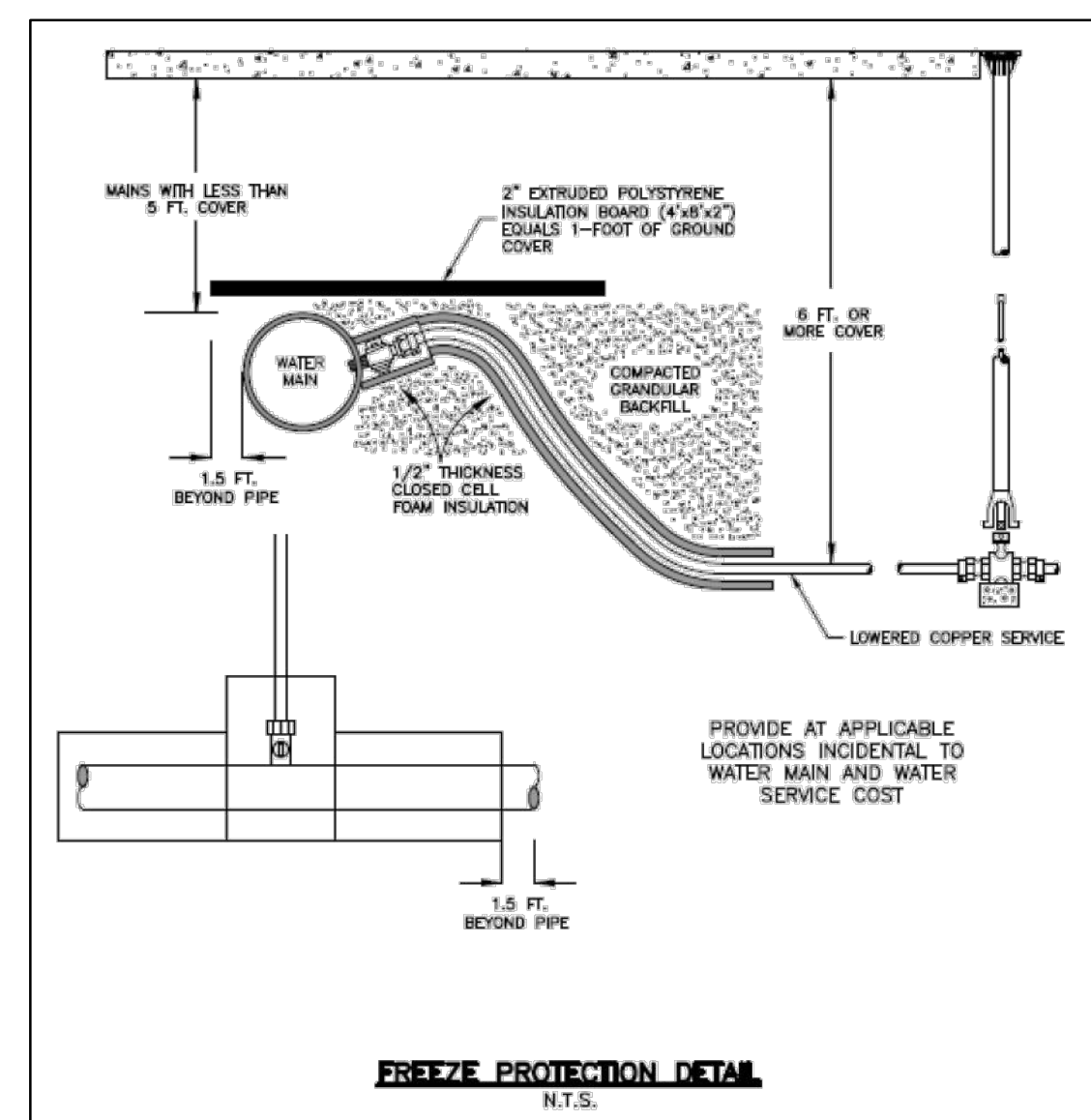
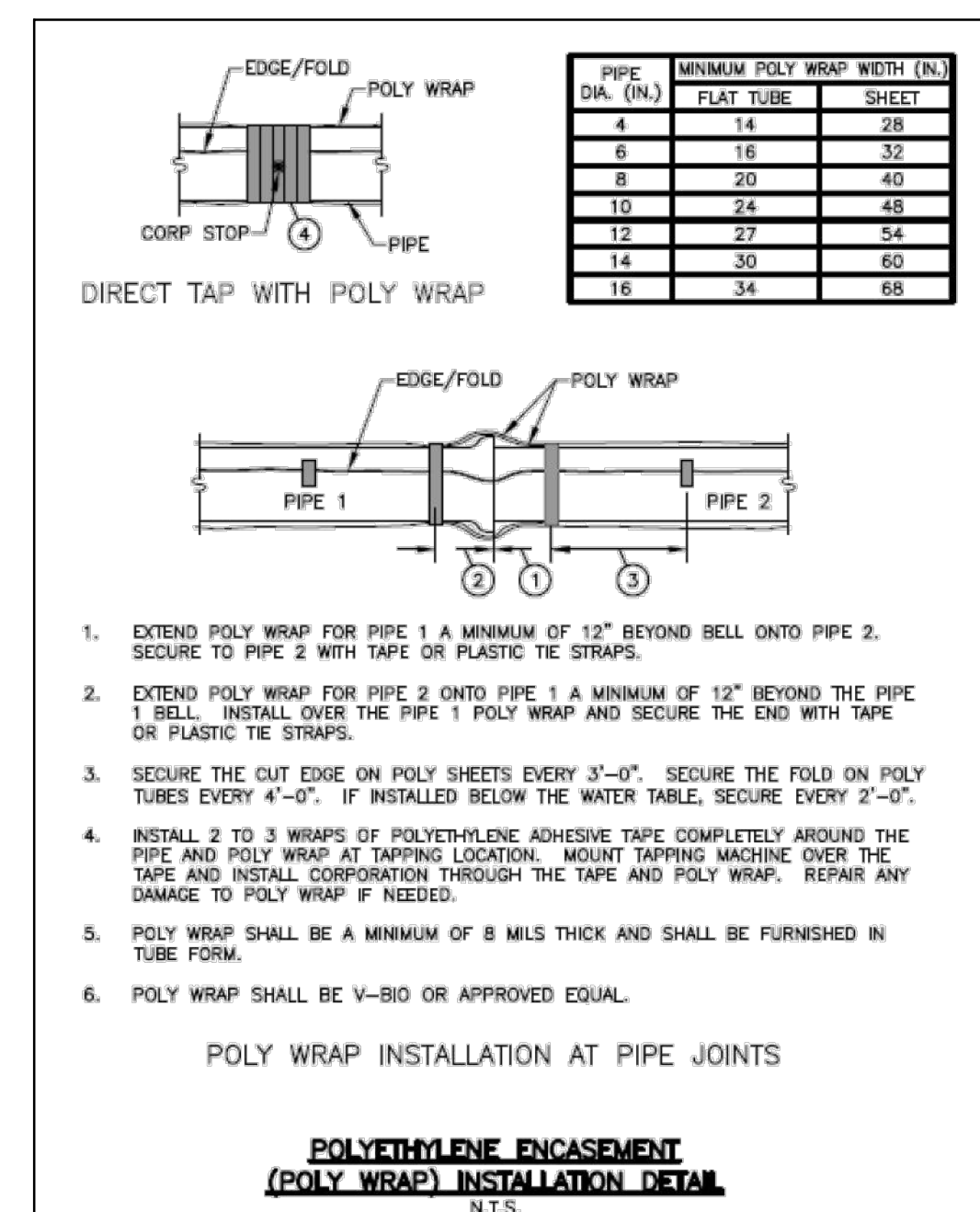
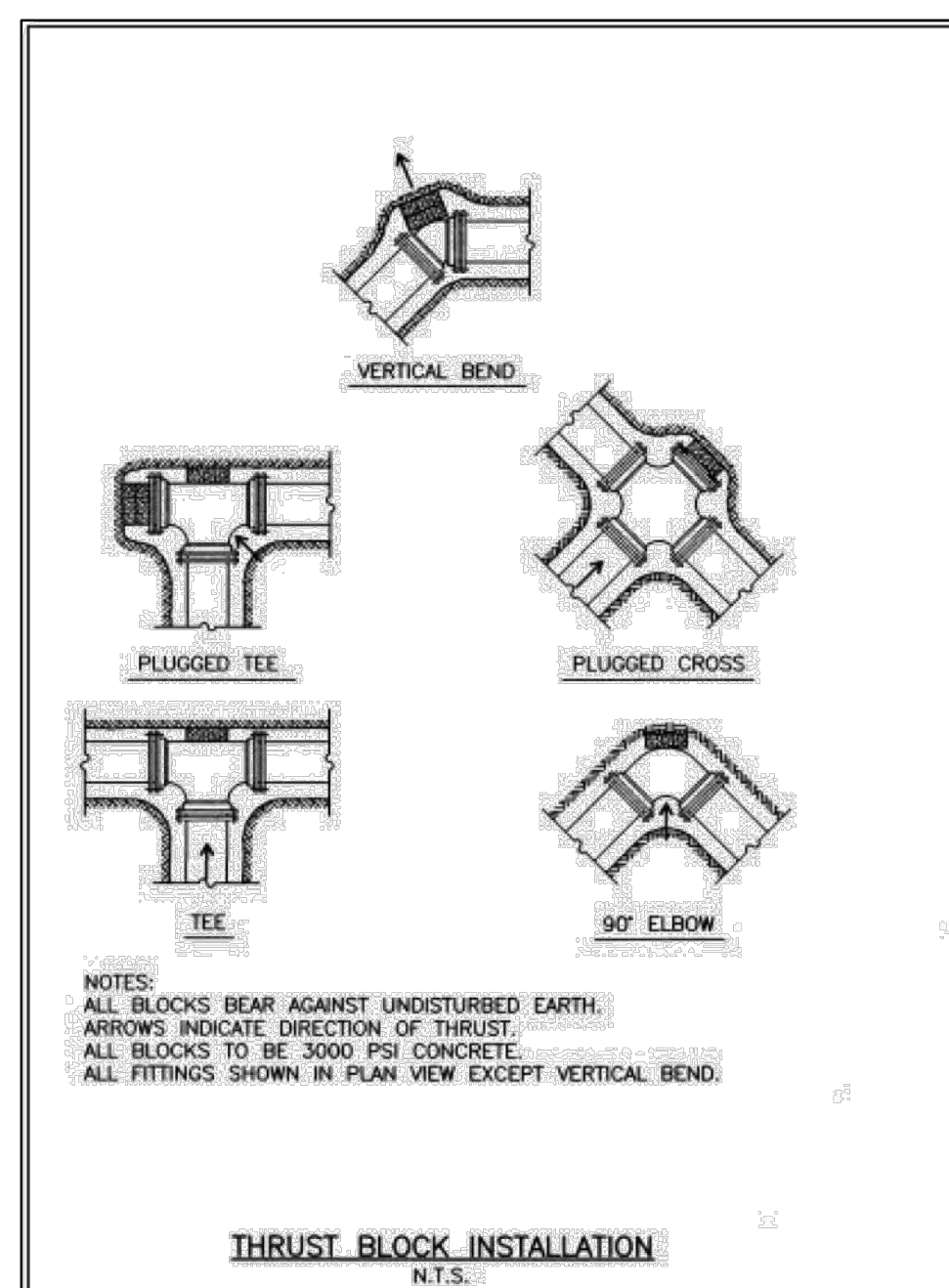
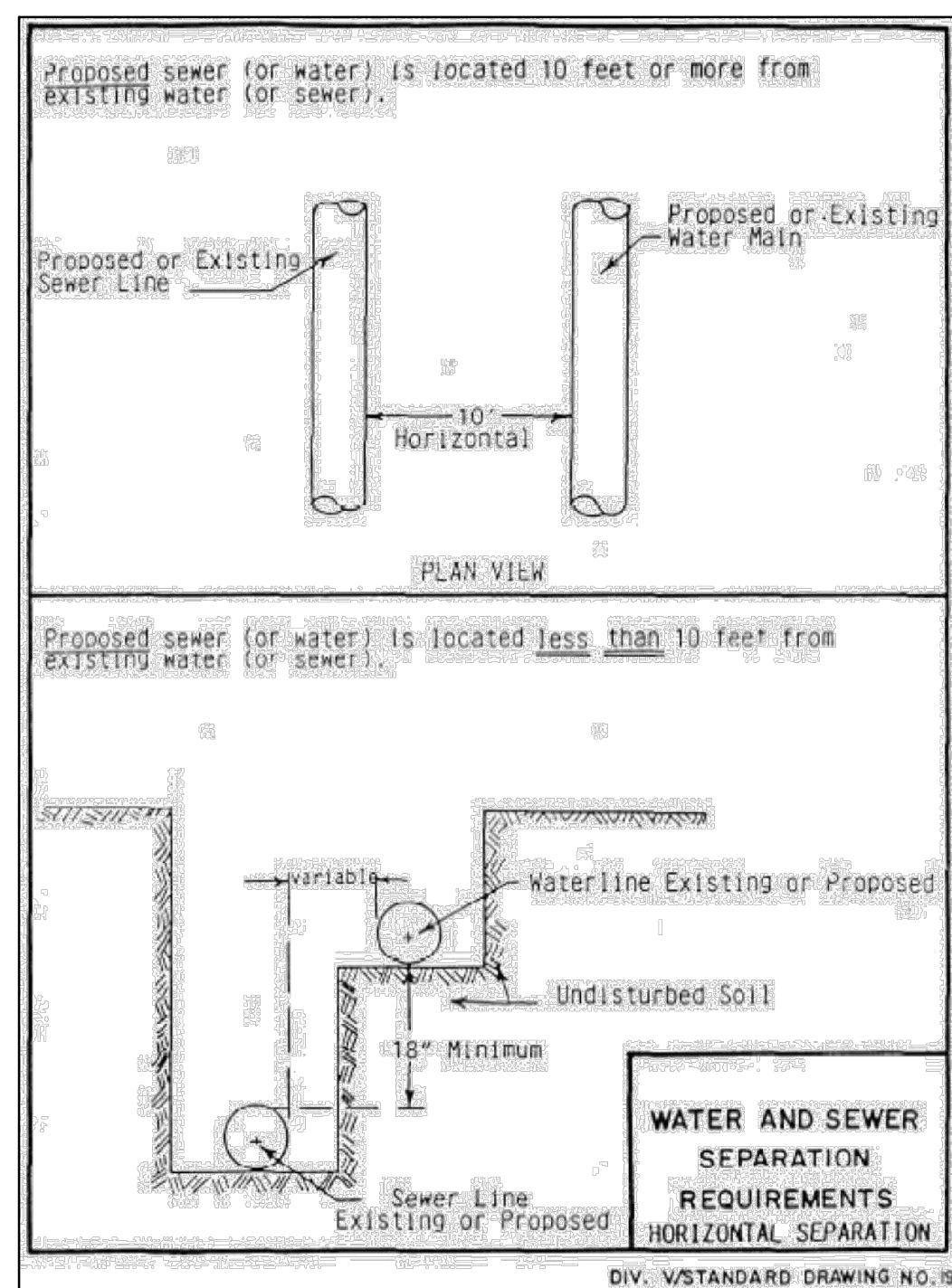
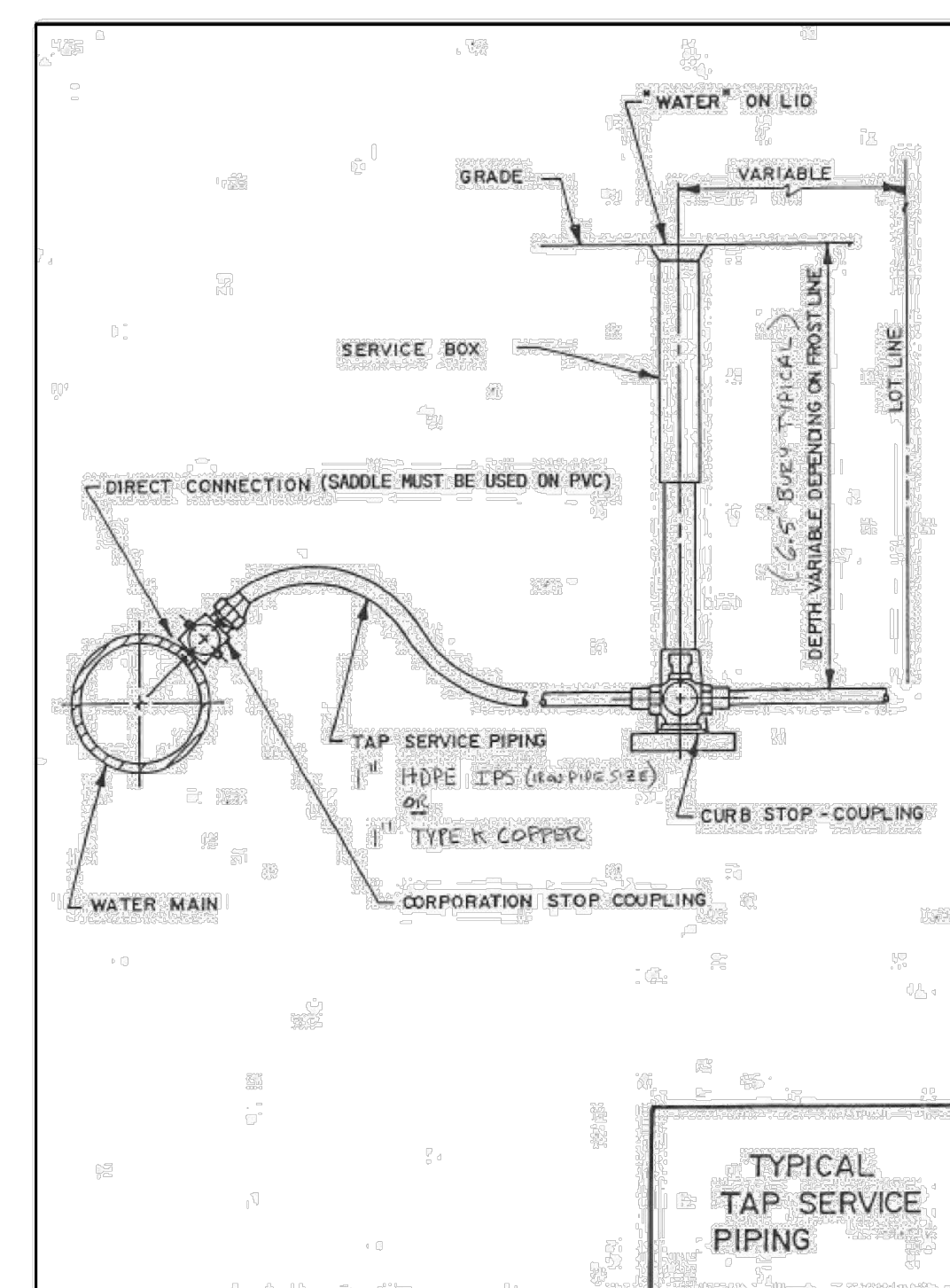
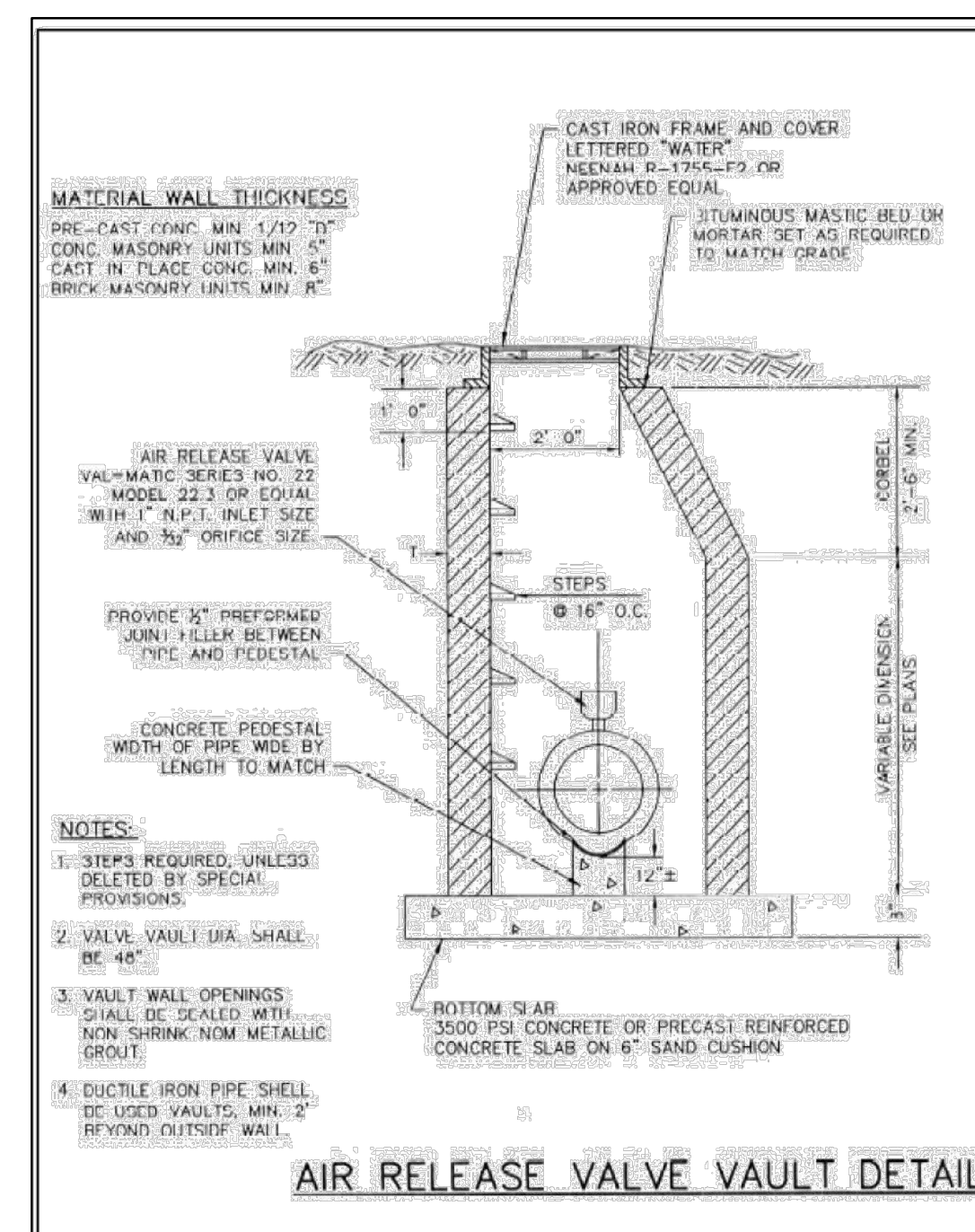
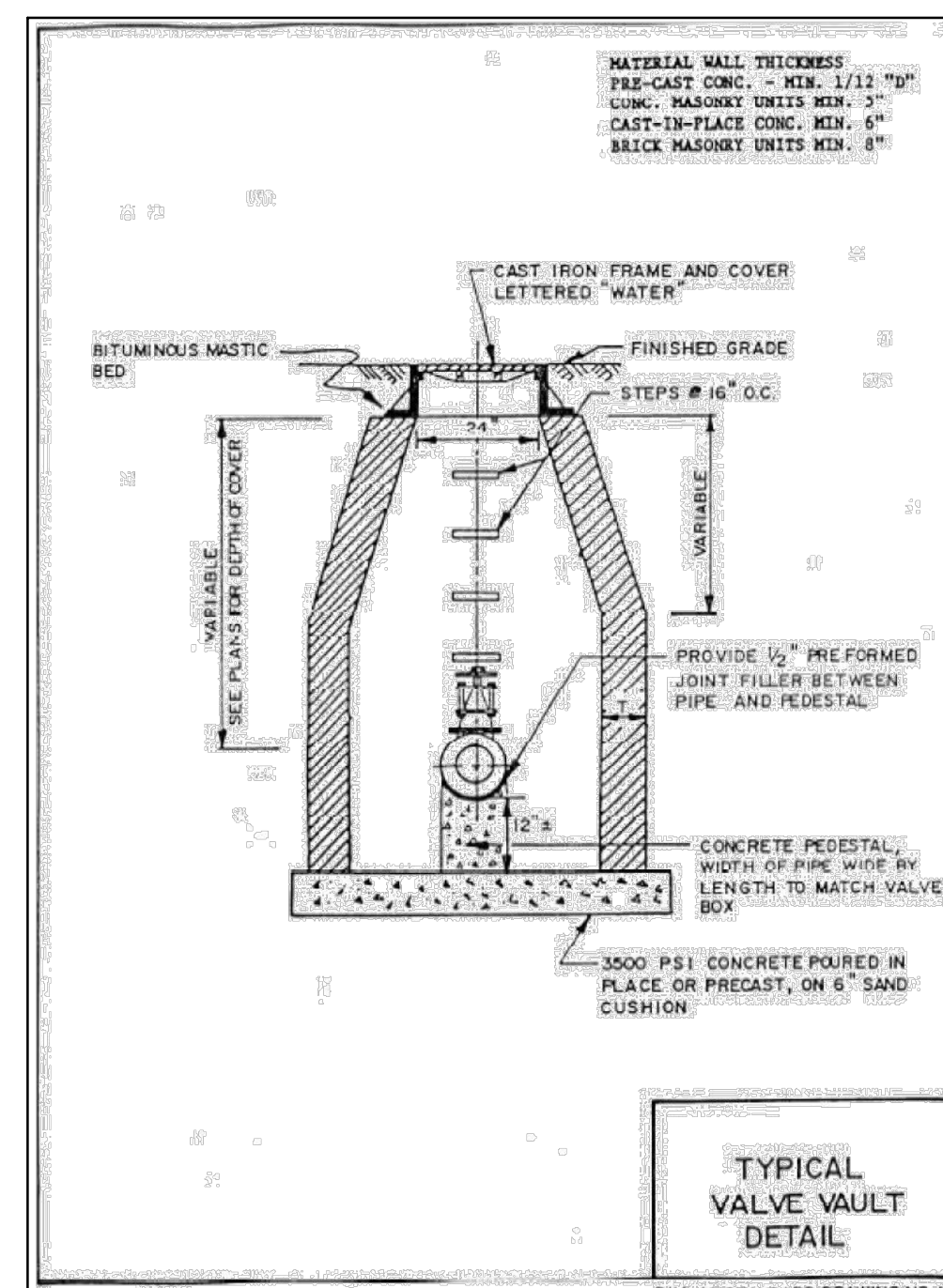
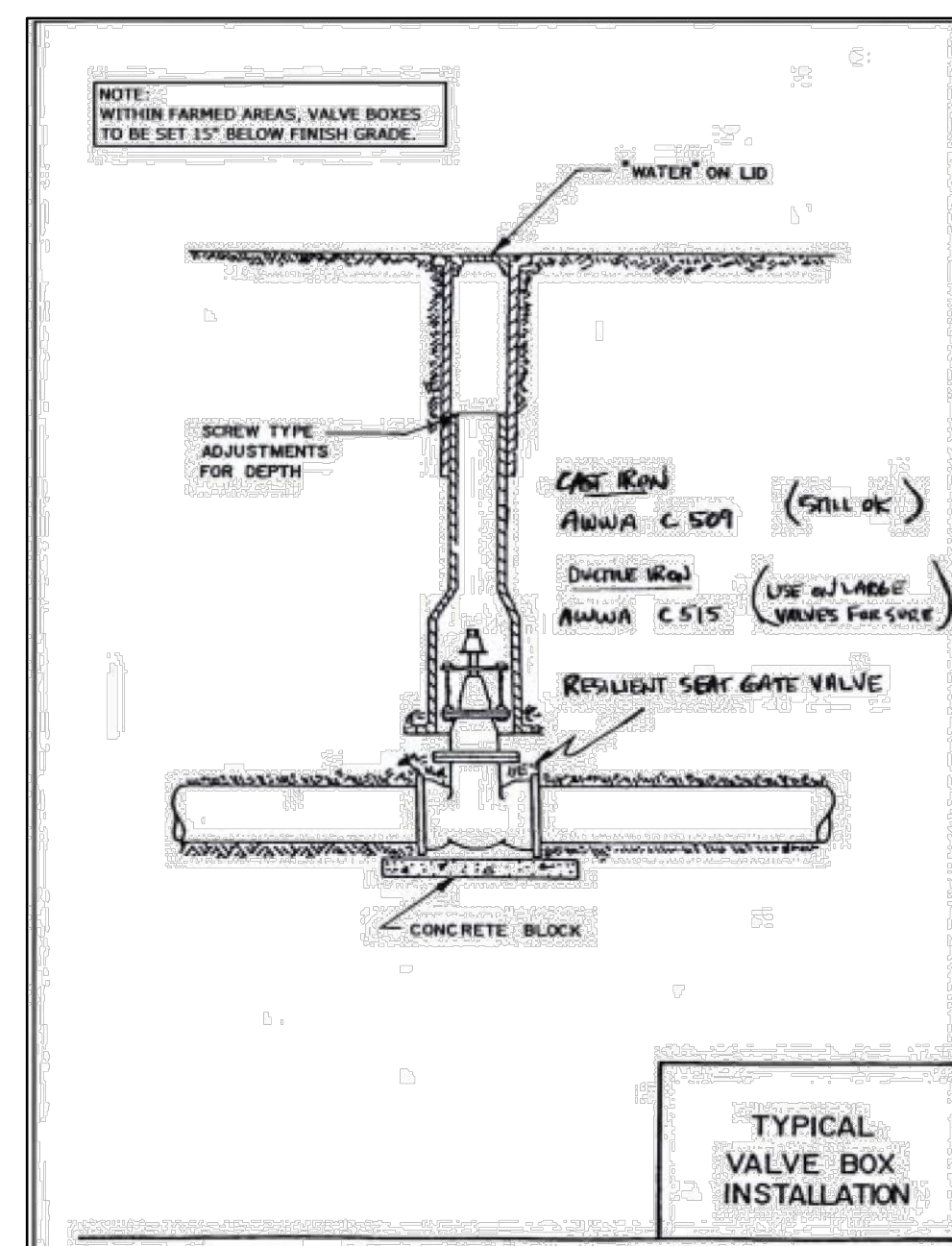
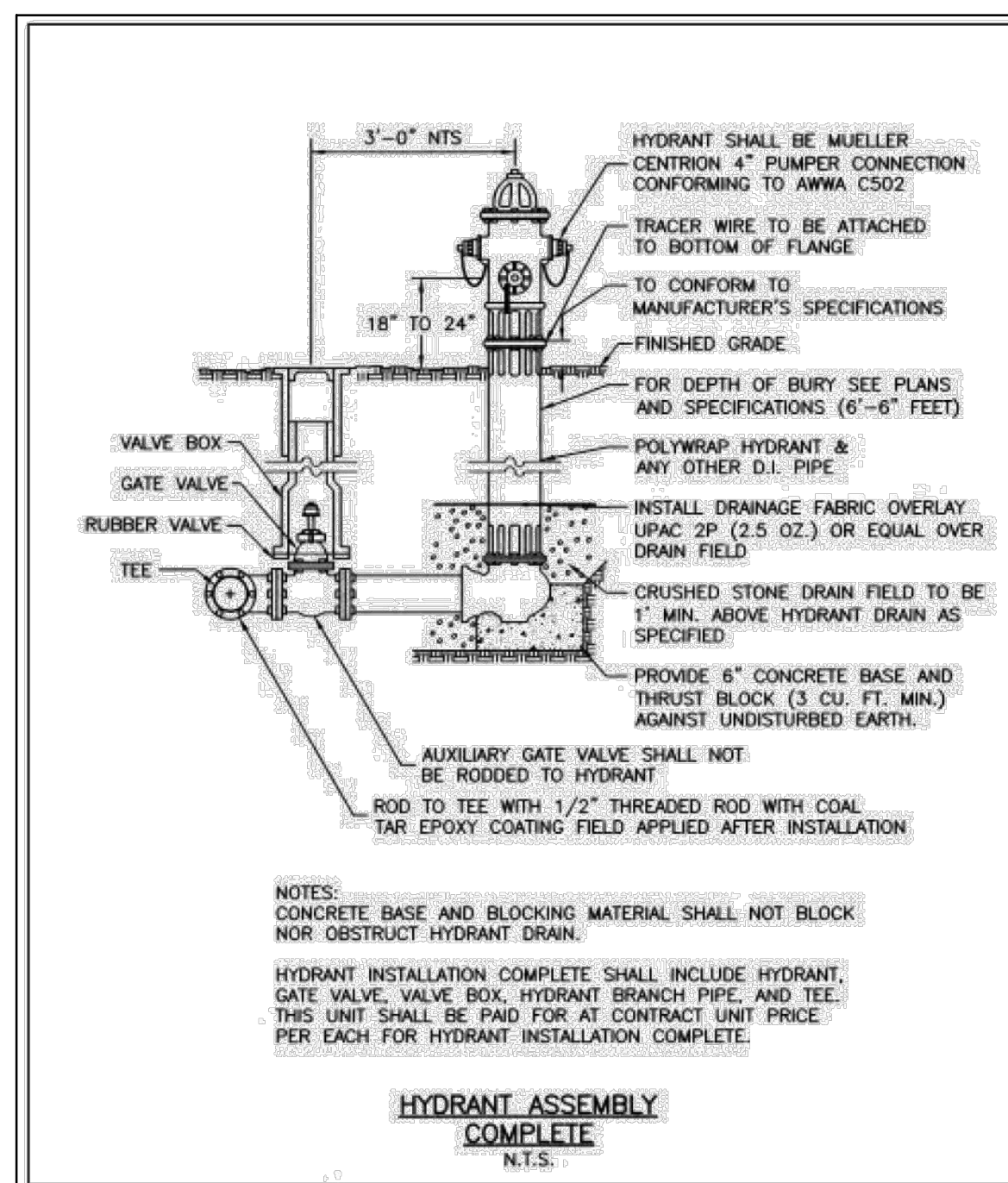
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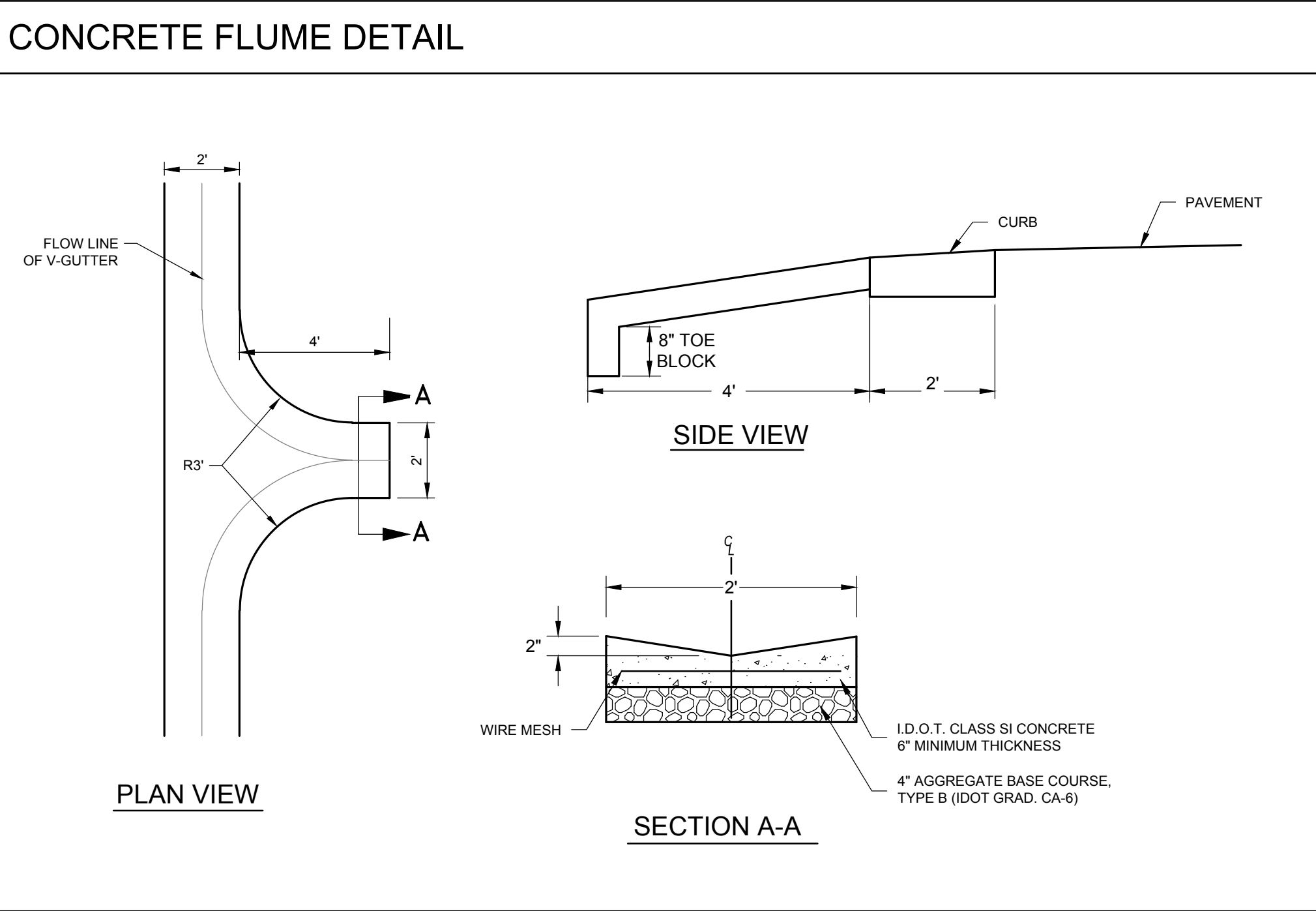
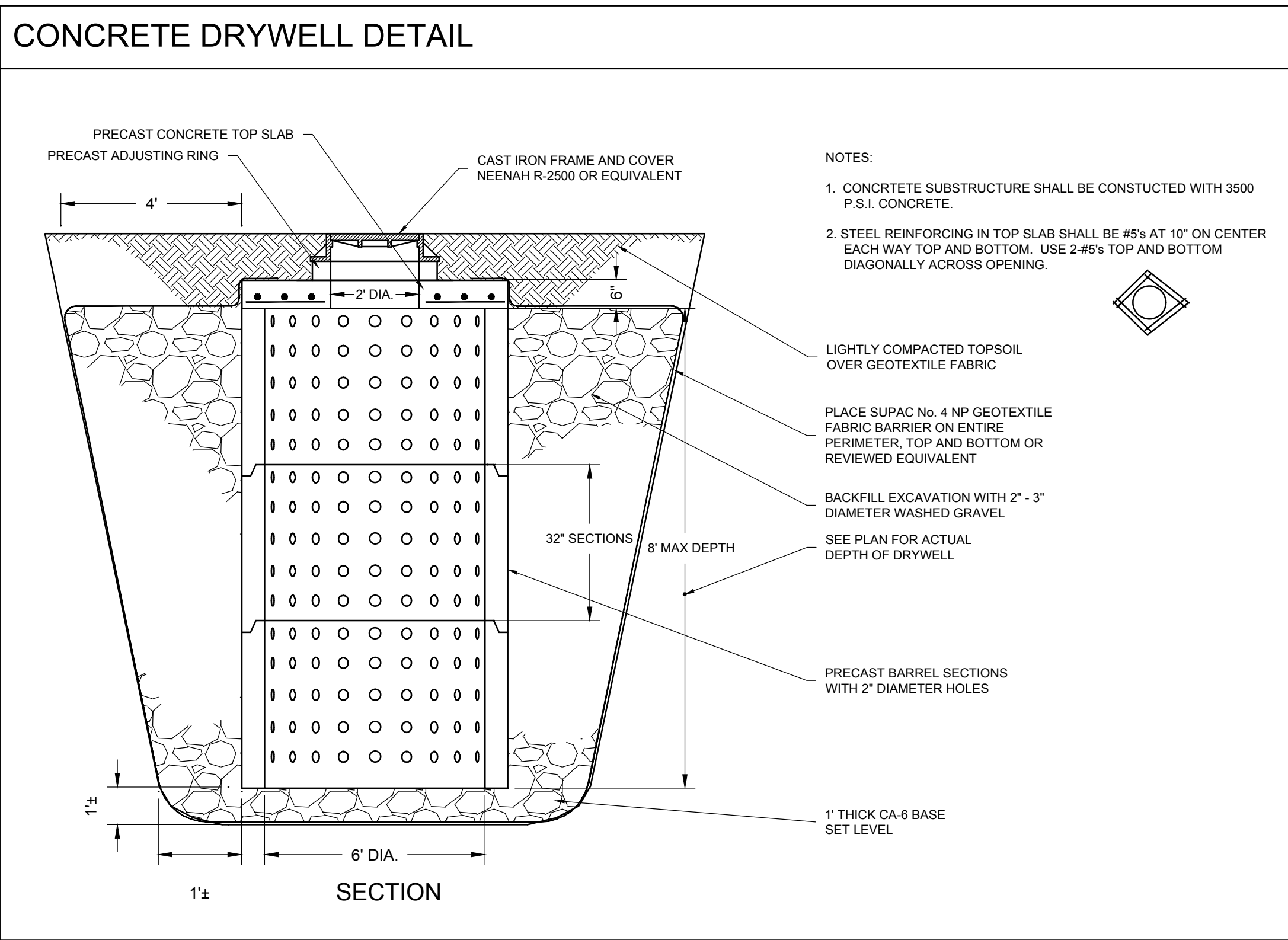
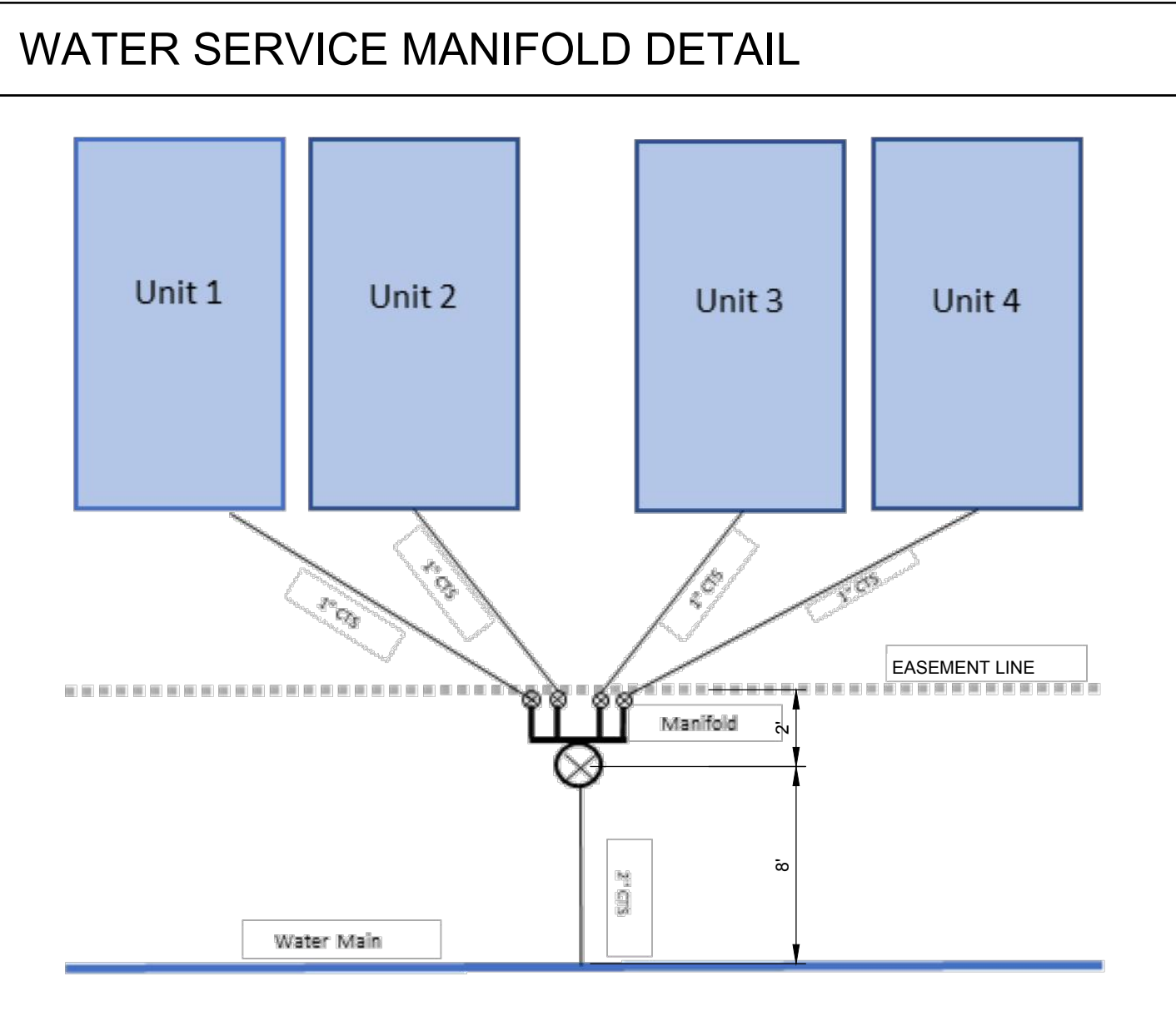
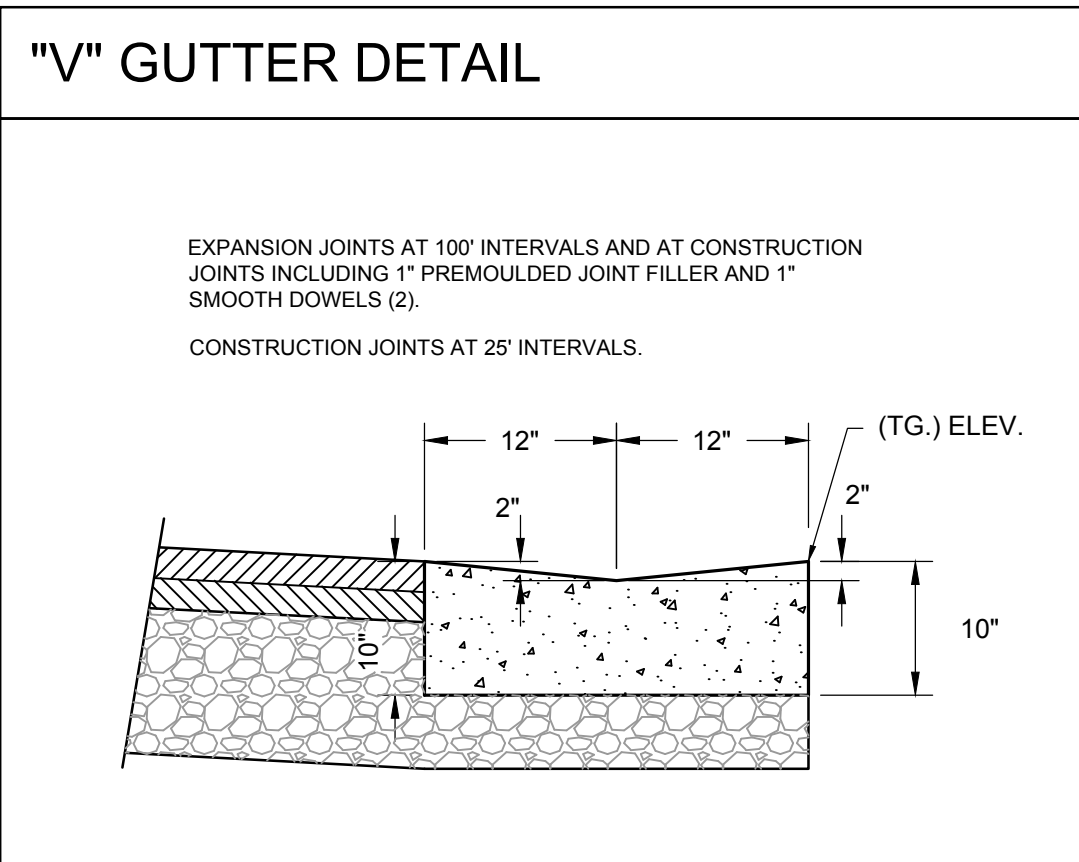
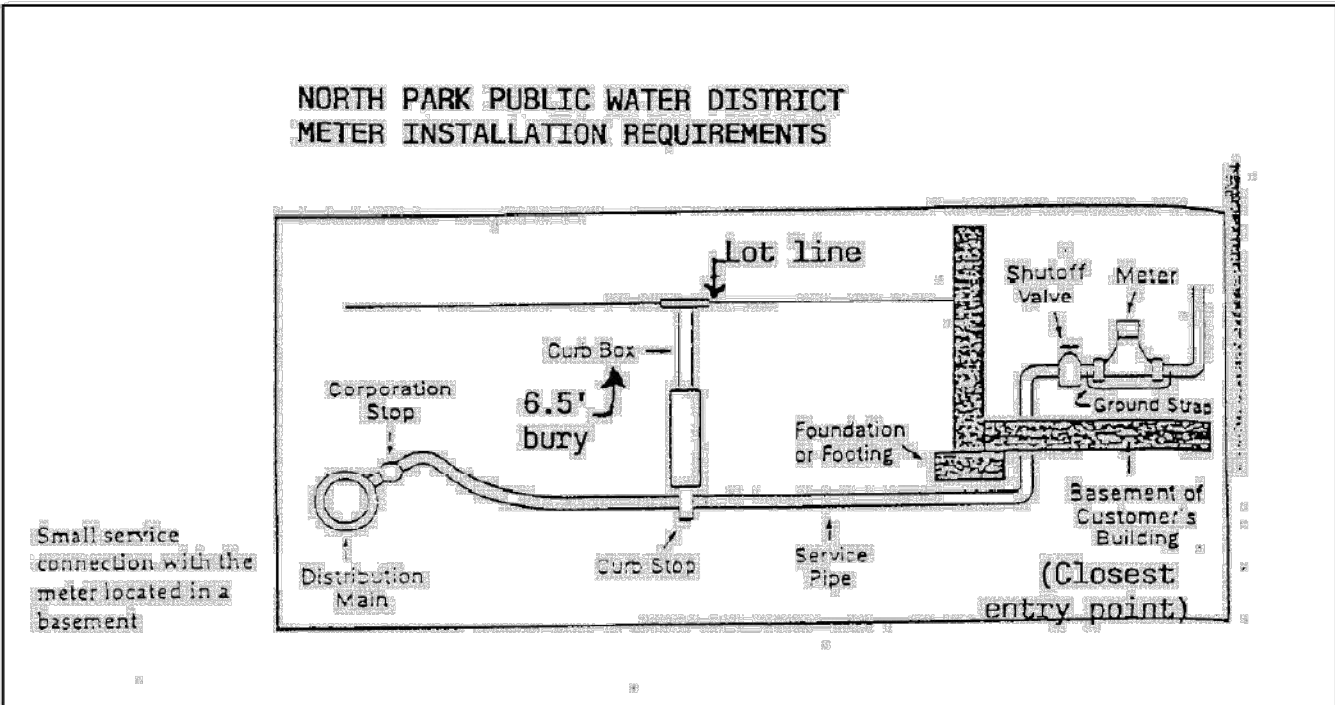
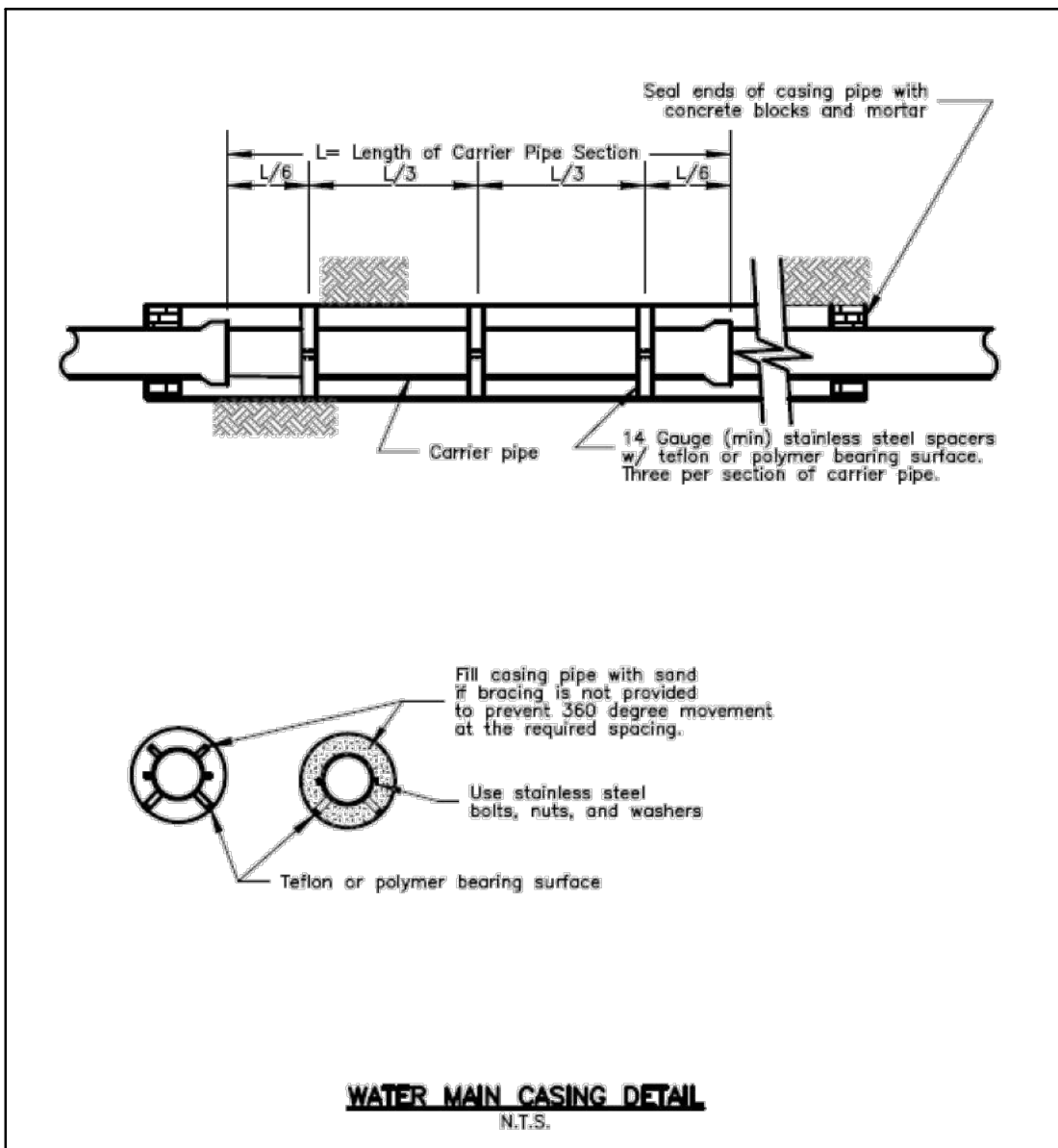
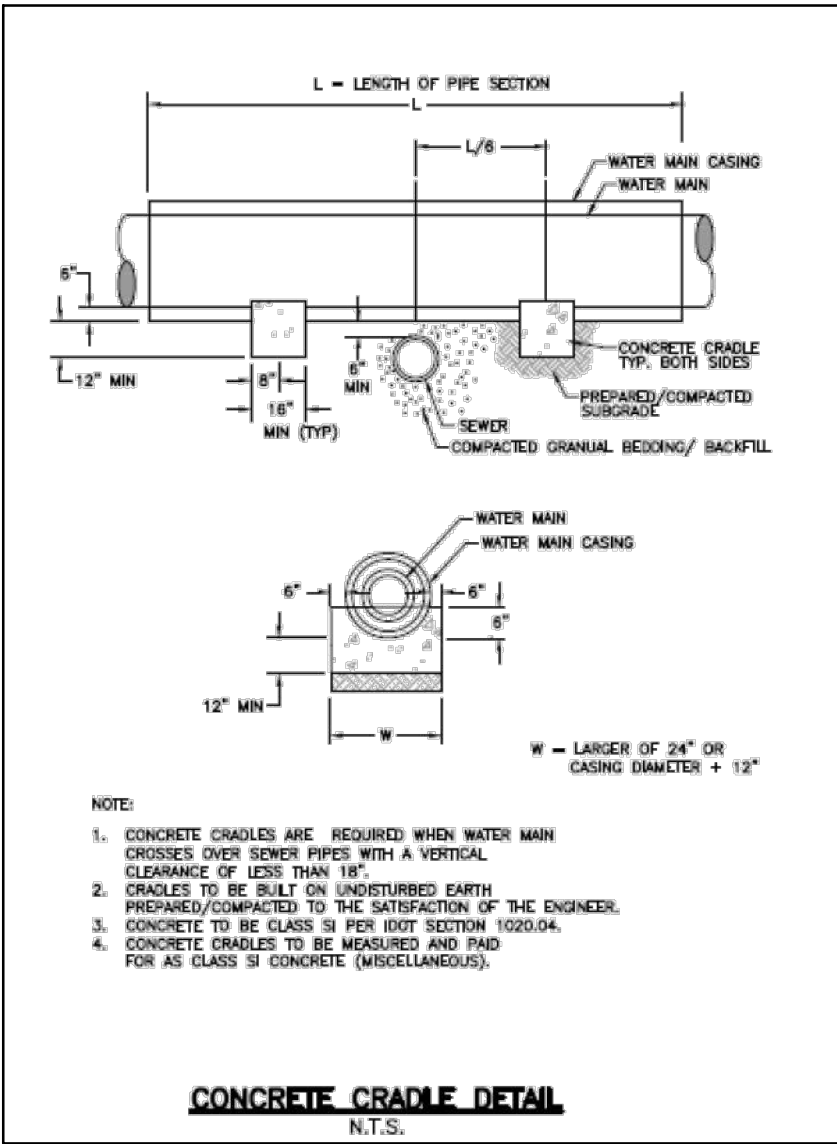
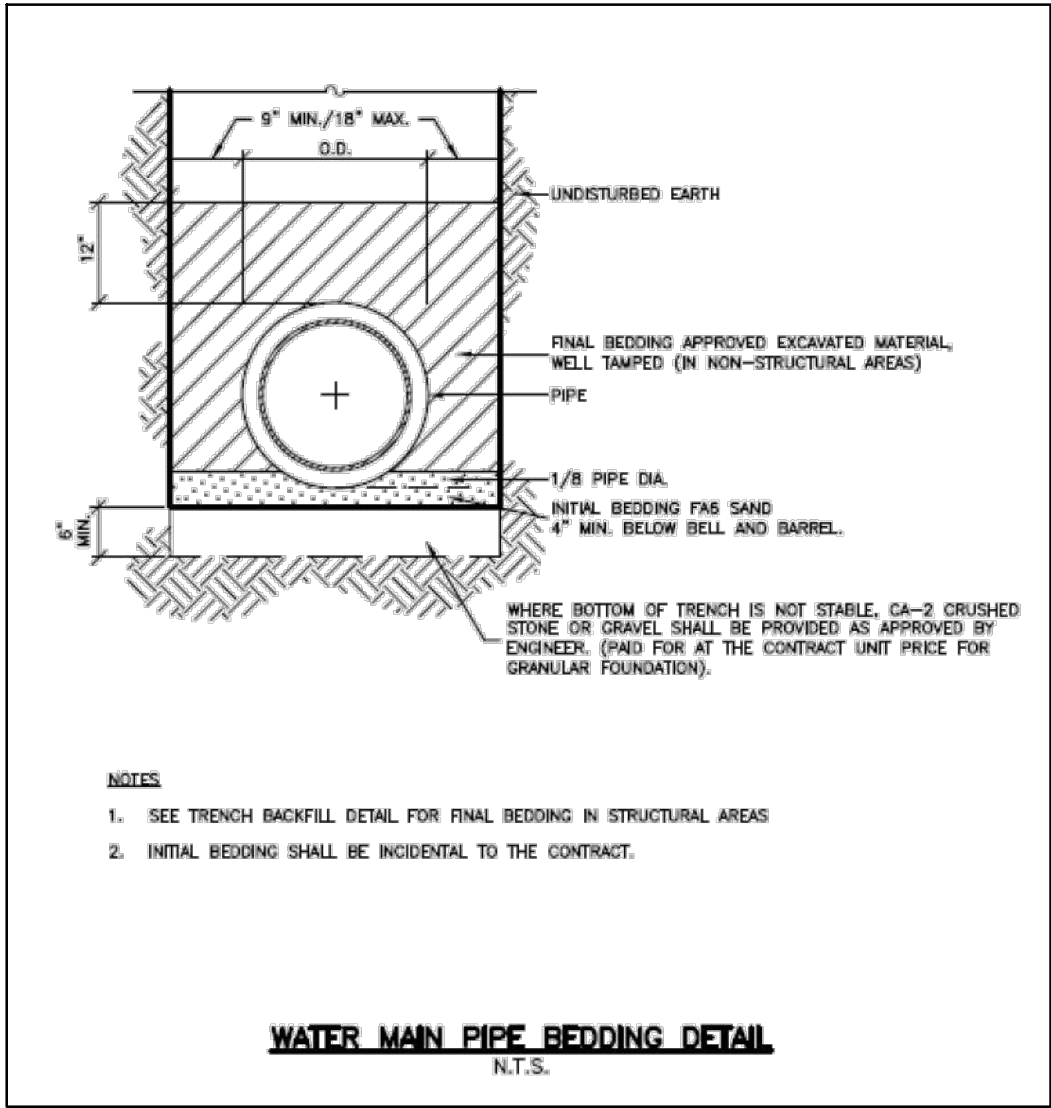
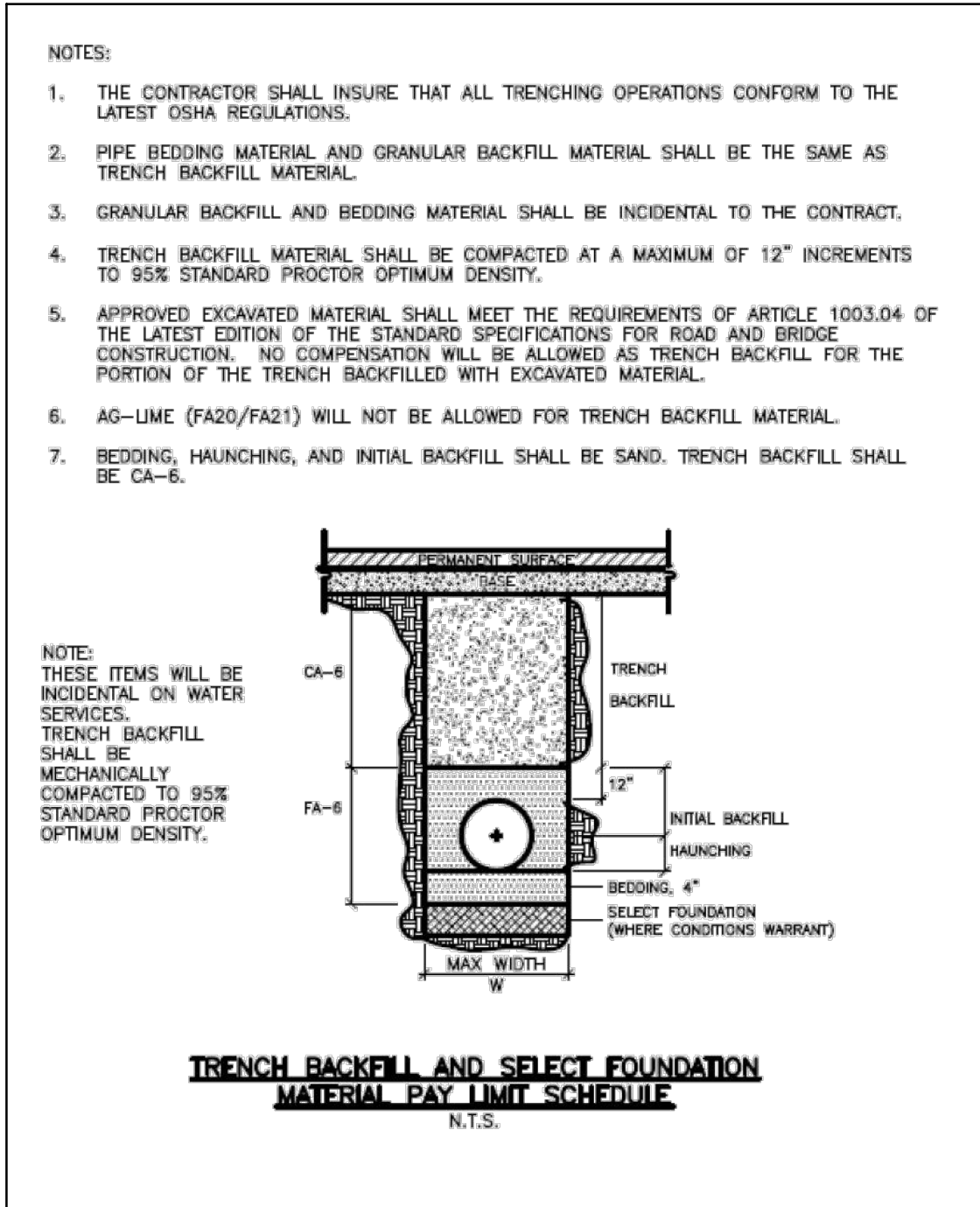
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C11



DIP (Inches)	Horizontal bends				Vertical Down Bends	Vertical Up Bends	Dead Ends
	15.25"	20.5"	45"	90"			
4 to 8	5	5	6	14	15	6	36
10 to 12	2	4	6	25	25	8	81
14 to 18	5	5	11	25	27	11	66
18 to 20	5	6	13	33	33	13	80
24	4	7	15	36	36	15	94



ARC DESIGN
RESOURCES INC.

5291 ZENITH PARKWAY
LOVES PARK, IL 61111
VOICE: (815) 484-4300
FAX: (815) 484-4303

www.arcdesign.com
Illinois Design Firm License No. 184-001334

PROJECT NAME
OWNER'S NAME

CLEARWING LOT A PUD

10311 CLEARWING LN
ROSCOE, IL 61073
WINNEBAGO COUNTY

WHITE OAK TRUST
747 GLEASMAN ROAD
ROSCOE, IL 61073

CONSULTANTS

ISSUED FOR		DATE
1. OWNER REVIEW		11-14-2024
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PM	JSL

PROJECT NUMBER
SHEET NUMBER

24146

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ARC DESIGN
RESOURCES INC.

5281 ZENITH PARKWAY
LOVES PARK, IL 61111
VOICE: (815) 484-4300
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www.arcdesign.com
Illinois Design Firm License No. 184-001334

PROJECT NAME
OWNER'S NAME

CLEARWING
LOT A PUD

10311 CLEARWING LN
ROSCOE, IL 61073
WINNEBAGO COUNTY

WHITE OAK TRUST
747 GLEASMAN ROAD
ROSCOE, IL 61073

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PROJECT NUMBER
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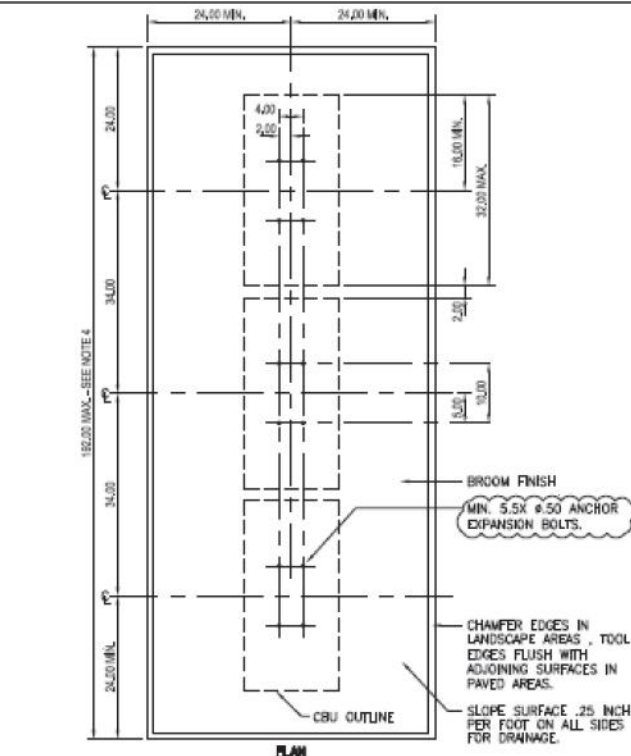
C13



Developers & Builders Guide

APPENDIX B – Cluster Box Unit Installation Multiple Unit

NOTES TO A/E:



- NOTES:
1. CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 3,000 PSI @ 28 DAYS, CONFORM 4E MIN. TO 55 MPa, AND BE PLACED WITH A 3'-0" - 4'-0" SLUMP IN ACCORDANCE WITH ALL SPS.
 2. RESPONSIBLE PARTY SHALL CONFORM TO ASTM AREA, GRADE, AND DIMENSIONS. 1/2" DIAMETER x 1" INTERNAL LENGTH. CATALOG NUMBER: 900-454-114. ENSURE THAT THE MIN. EMBEDMENT IN CONCRETE IS AT LEAST 3'-1/2".
 3. EXPANSION BELLS SHALL BE EQUIVALENT TO THE FOLLOWING PROFILES:
 - a. MAX. SIZE (www.usps.com) 1'-1/2" DIAMETER x 3'-1/2" INTERNAL LENGTH. CATALOG NUMBER: 900-454-114. ENSURE THAT THE MIN. EMBEDMENT IN CONCRETE IS AT LEAST 3'-1/2".
 - b. MAX. SIZE (www.usps.com) 1'-1/2" DIAMETER x 3'-1/2" INTERNAL LENGTH. CATALOG NUMBER: 900-454-114. ENSURE THAT THE MIN. EMBEDMENT IN CONCRETE IS AT LEAST 3'-1/2".
 - c. MAX. SIZE (www.usps.com) 1'-1/2" DIAMETER x 3'-1/2" INTERNAL LENGTH. CATALOG NUMBER: 900-454-114. ENSURE THAT THE MIN. EMBEDMENT IN CONCRETE IS AT LEAST 3'-1/2".
 4. A 1'-0" COMPARTMENT IS REQUIRED. A 2'-0" x 1'-0" COMPARTMENT MAY BE USED AS LONG AS THEY ARE APPROVED BY GROUPS SUCH THAT THE OVERALL DIMENSION OF THE CONCRETE BASE DOES NOT EXCEED 14 FEET.

Detail: CLUSTER BOX UNIT (CBU) INSTALLATION - MULTIPLE UNIT

Scale: 1/2" = 1'-0"

USPS S&L Issued: 10/1/2016
Last Revised: 10/2/2016

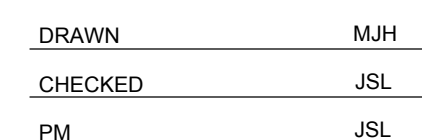
vital™ Cluster Box Units

Pre-configured units include parcel lockers and outgoing mail collection to be used alone or in large groupings. Pedestal included ensures mailboxes and parcel lockers comply with USPS installation regulations. Available in six architectural colors (see page 7).



MODEL #	CBU TYPE	INSTALLED HEIGHT	INSTALLED WIDTH	INSTALLED DEPTH	PEDESTAL HEIGHT	WEIGHT (LBS)	STANDARD TENANT COMPARTMENT DIMENSIONS	MAILBOX COMPARTMENTS	PARCEL LOCKERS
1570-8XX	vital™ Type I CBU	62"	30-1/2"	18"	28-1/2"	144	3"H x 12"W x 15"D	8	2
1570-12XX	vital™ Type II CBU	62"	30-1/2"	18"	28-1/2"	144	3"H x 12"W x 15"D	12	1
1570-16XX	vital™ Type III CBU	62"	30-1/2"	18"	14-1/2"	175	3"H x 12"W x 15"D	16	2
1570-13XX	vital™ Type IV CBU	62"	30-1/2"	18"	14-1/2"	167	4-3/4"H x 12"W x 15"D	13	1
1570-4T5XX	vital™ Type V CBU	62"	30-1/2"	18"	28-1/2"	145	6-1/2"H x 12"W x 15"D	4	2
1570-8T6XX	vital™ Type VI CBU	62"	30-1/2"	18"	14-1/2"	176	3"H x 12"W x 15"D	8	4

Note: Exchange "XX" in Model # above for two-digit color reference: Black= BK Dark Bronze= DB Sandstone= SD Postal Gray= PG White = WH Forest Green = FG



1. Contractor shall verify locations of all underground utilities prior to beginning construction on his phase of work. Electric, gas, telephone, and cable television can be located by calling J.U.L.I.E. at '811'. For regional locations, the contractor, "Contractor to coordinate all related activities with other trades on the job and shall report any and all suitable job information to the owner. (See Appendix C, "Underground Utilities")
2. Contractor shall grade entire site to correct surface irregularities in preparation for seed/seed. Roto-till, disc, drag, harrow or hand rake sub grade in all lawn areas and remove construction debris, foreign material or stones larger than 2". Grading shall provide slopes which are smooth, continuous, free from depressions or ridges, and shall have a minimum 1% slope (1" in 100') for positive drainage in all areas. Finish grades shall meet the approval of owner prior to lawn installation.
3. All disturbed areas should be brought to grade with "topsoil" to a depth of 6 inches in areas to be seeded or sodded. (See Appendix C, "Soil") Topsoil (1" in 100') shall be free from stones, sticks, clumps of weeds, mulch, straw mulch, seed, soil, or as noted. All lawn areas to be sown within a healthy stand of grass is established. (See seed/soil notes for acceptance details).
4. Quantity lists are supplied as a convenience; however, the contractor should verify all quantities. The quantities listed are based on the following assumptions:
 - a. All quantities are based on the quantities listed.
 - b. Plantings may need to be adjusted in the field to accommodate utilities, easements, drainage ways, downspouts, etc.; however, quantities and sizes shall remain consistent with these plans.
 - c. Size & grading standards of plant material shall conform to the latest addition of ANSI 260.1 AMERICAN STANDARD for NURSERY STOCK, by the American Nursery and Landscape Association. Plant material shall be nursery grown and be either balled and burlap or container grown.
 - d. All plant species specified are subject to availability. Material shortages in landscape architect and/or owner may require substitutions. All substitutions must be approved by the Landscape Architect and/or Owner.
 - e. All plant materials and/or plants shall be free from insect damage, diseases, sunburn, insect damage, etc. are not acceptable and will be rejected by Landscape Architect and/or Owner. Trees with multiple leaders will be rejected unless called for in the plant list as multi-stem or clump.
 - f. All plant material, especially trees, must be sourced within a fifty (100) mile radius of the subject property or construction site.
5. Upon inspection and acceptance of all landscape items by Landscape Architect and/or Owner the contractor shall assume maintenance responsibilities for a period of thirty (30) days, for all plant material, to include: watering, weeding, fertilizing, pruning, and other maintenance. All maintenance shall be performed in a healthy, vigorous condition until responsibility is transferred to the owner (see below).
6. All plant material shall be guaranteed for one (1) year after acceptance by landscape architect and/or owner. After the first thirty (30) days, the owner shall assume maintenance responsibilities as described in Appendix C, "Contractor's Maintenance." The contractor's maintenance period shall be determined by the landscape architect at the end of one (1) year guarantee period. Contractor shall notify immediately, in writing, any concerns related to maintenance practices.
7. All deciduous trees and shrubs shall be planted without bare roots. Evergreen and shade shedded hardwoood mulch, see planting details. All deciduous trees (shade trees / ornamentals) that are not located in a planting bed shall be mulched with a 3'-0" diameter circle. Evergreen trees and multi-stemmed ornamental trees shall be mulched to outer-most branches at the time of installation.
8. Planting and delivery details:
 - a. All trees and shrubs shall be planted in containers which require a minimum 4" depth "vee" shaped cultivated, spaded edge with a vertical face abutting all lawn areas and sloped to inside of plant bed continuous between lawn and mulched areas as indicated on plan.
 - b. Contractor to seed all disturbed lawn areas. Seedbed lawn to be a combination of bluegrass, perennial ryegrass and the contractor's choice of Kentucky bluegrass, 20% ribb Kentucky bluegrass, 20% park Kentucky bluegrass, 20% creeping red fescue, 20% scalds hair fescue, and 10% perennial ryegrass. Seed to be applied at a rate of 4 lbs. per 1,000 S.F. All seeded lawn areas shall be covered with straw mulch or other seed retentive netting, consisting of hand or machine applied straw or other seed retentive netting. Seed shall be compacted enough to reduce air space and soil loss, but loose enough to allow air to circulate. Install per Method 1, Section 251, of the Standard Specifications for Road and Bridge Construction.
 - c. All seeded turf areas shall be fertilized at installation with 6-20-20 analysis, at a rate of 6 lbs. per 1,000 S.F. Fertilizer shall be applied at a rate of 6 lbs. per 1,000 S.F. Fertilizer shall be applied at the first cutting. Acceptance and guarantee notes shall apply to all seeded areas.
9. Acceptance of grading and seed shall be by landscape architect and/or owner. Contractor shall assume maintenance responsibilities for a minimum of sixty (60) days or until second cutting, whichever is longer. Grass shall not be cut until second cutting. Contractor shall assume all other maintenance necessary to keep lawn in a thriving condition. Upon final acceptance, owner shall assume all maintenance responsibilities. After lawn areas have germinated, areas which fail to show a uniform stand of grass for any reason whatsoever shall be re-seeded repeatedly until all areas are covered with a satisfactory stand of grass. Minimum amount of seed shall be 100 lbs. per 1,000 S.F. Areas of seed failure, if any, shall be one of which are larger than one (1) square foot when combined do not exceed 2% of total lawn area.

KEY	QTY	Botanical name COMMON NAME	SIZE	REMARKS
JHG	8	Juniperus horizontalis 'Hagedus' GOOD VIBRATIONS GOLD JUNIPER	5 GAL	EVERGREEN
SBG	8	Spiraea betulifolia 'Glow Girl' GLOW GIRL TOR SPIREA	18" / 5 GAL	
SJD	8	Spiraea japonica 'Double Play' DOUBLE-PLAY ARTISAN SPIREA	18" / 5 GAL	
SPB	2	Syringa patula x 'Bloomerang' DWARF REBLOOMING KOREAN LILAC	24" / 5 GAL	
WFB	1	Weigela florida x 'Bokrasopin' SONIC BLOOM PINK WEIGELA	24" / 5 GAL	
CFR	9	Calamagrostis acutifolia 'Karl Forster' KARL FORSTER FEATHER REED GRASS	2 GAL	3'-0" O.C. - PERENNIAL
HHR	12	Hemerocallis 'Happy Returns' HAPPY RETURNS DAYLILY	GAL	2'-0" O.C. - PERENNIAL
SEF	12	Salvia x 'East Friesland' FRIESLAND MEADOW SAGE	GAL	2'-0" O.C. - PERENNIAL

KEY	QTY	Botanical name COMMON NAME	SIZE	REMARKS
JHG	10	Juniperus horizontalis 'Hagedus' GOOD VIBRATIONS GOLD JUNIPER	5 GAL	EVERGREEN
SBG	9	Spiraea betulifolia 'Glow Girl' GLOW GIRL TOR SPIREA	18" / 5 GAL	
SJD	5	Spiraea japonica 'Double Play' DOUBLE-PLAY ARTISAN SPIREA	18" / 5 GAL	
SPB	1	Syringa patula x 'Bloomerang' DWARF REBLOOMING KOREAN LILAC	24" / 5 GAL	
WFB	1	Weigela florida x 'Bokrasopin' SONIC BLOOM PINK WEIGELA	24" / 5 GAL	
CFR	8	Calamagrostis acutifolia 'Karl Forster' KARL FORSTER FEATHER REED GRASS	2 GAL	3'-0" O.C. - PERENNIAL
HHR	15	Hemerocallis 'Happy Returns' HAPPY RETURNS DAYLILY	GAL	2'-0" O.C. - PERENNIAL
SEF	15	Salvia x 'East Friesland' FRIESLAND MEADOW SAGE	GAL	2'-0" O.C. - PERENNIAL

 MIXED PERENNIALS /
ORNAMENTAL GRASSES

 EVERGREEN / DECIDUOUS SHRUBS

 LARGE DECIDUOUS SHADE TREE

 EVERGREEN TREE / ORNAMENTAL TREE

CATEGORY	QUANTITY	REQUIREMENT	PROVISION
TRANSITION AREA LANDSCAPE PLANTING (BUFFER YARDS)	NORTH PL: 332 L.F. EAST PL: 319 L.F. SOUTH PL: 233 L.F.	13 TREES (4 / 100 LF) 13 TREES (4 / 100 LF) 9 TREES (4 / 100 LF)	8 TOTAL* - 5 TREES + 3 EXISTING (MIXED VARIETY SHADE, EVERG.) 11 TOTAL* - 4 TREES + 7 EXISTING (MIXED VARIETY SHADE, EVERG.) 4 TOTAL* - 4 TREES (MIXED VARIETY OF SHADE, EVERG.) *19 ADDITIONAL SITE TREES ARE PROVIDED; AGGREGATELY, THESE EXCEED THE REQUIREMENT.
PARKING PERIMETER LANDSCAPE PLANTING	ALL PARKING AREAS, TWO (2) PROVIDED = 54 L.F. EA	27 L.F. - MINIMUM OF 50% THE LENGTH OF PARKING PERIMETER	32 L.F. = 60% OF THE PARKING PERIMETER LENGTH PLANTED
FOUNDATION LANDSCAPE PLANTING	UNIT A TYPE - 218 L.F. UNIT B/C TYPE = 264 L.F.	174 L.F. - MINIMUM 80% OF FACADE 211 L.F. - MINIMUM 80% OF FACADE	175 L.F. - 80% OF FOUND. 213 L.F. - 80% OF FOUND.
EXISTING TREES	14 TREES - MIXED VARIETIES (DECIDUOUS AND EVERGREEN) AND SIZES (CALIPER INCH WIDTH OR HEIGHT)		

KEY	QTY	Botanical name COMMON NAME	SIZE	REMARKS
JHG	11	Juniperus horizontalis 'Hagedus' GOOD VIBRATIONS GOLD JUNIPER	5 GAL	EVERGREEN
SBG	9	Spiraea betulifolia 'Glow Girl' GLOW GIRL TOR SPIREA	18" / 5 GAL	
SJD	6	Spiraea japonica 'Double Play' DOUBLE-PLAY ARTISAN SPIREA	18" / 5 GAL	
SPB	2	Syringa patula x 'Bloomingang' DWARF REBLOOMING KOREAN LILAC	24" / 5 GAL	
WFB	1	Weigela florida x 'Bokrasopin' SONIC BLOOM PINK WEIGELA	24" / 5 GAL	
CFR	11	Calamagrostis acutifolia 'Karl Forster' KARL FORSTER FEATHER REED GRASS	2 GAL	3'-0" O.C. - PERENNIAL
HHR	15	Hemerocallis 'Happy Returns' HAPPY RETURNS DAYLILY	GAL	2'-0" O.C. - PERENNIAL
SEF	15	Salvia x 'East Friesland' FRIESLAND MEADOW SAGE	GAL	2'-0" O.C. - PERENNIAL

NOT TO SCALE

24146
L02

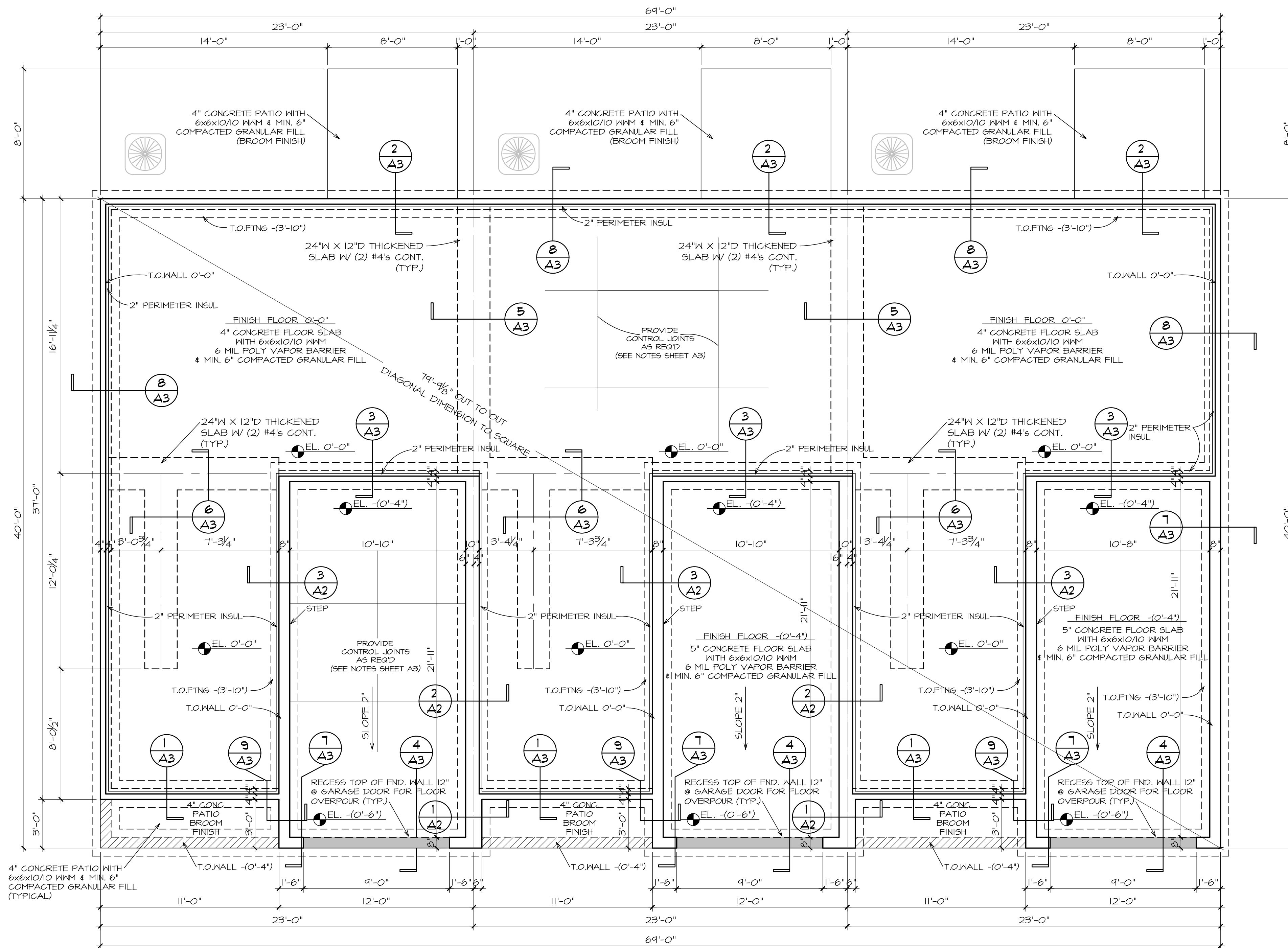
③ GARAGE FOUNDATION WALL
SCALE: 1/2" = 1'-0"

SCALE 1/4" = 1'-0"

THE ARCHITECT IS NOT PROVIDING PROJECT CONSTRUCTION SUPERVISION OR ANY FORM OF PROJECT MANAGEMENT FOR THE BUILDING COVERED BY THIS SET OF DOCUMENTS. THE USE OF THESE DRAWINGS BY ANY CONTRACTOR, SUB-CONTRACTOR, BUILDER'S TRADESMAN OR WORKER SHALL INSTIGATE A HOLD HARMLESS AGREEMENT BETWEEN THE DRAWING USER AND THE ARCHITECT. THE USER OF THE DRAWINGS AGREES TO HOLD THE ARCHITECT HARMLESS FOR ANY RESPONSIBILITY IN REGARDS TO CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES AND FOR ANY SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK AND FURTHER SHALL HOLD THE ARCHITECT HARMLESS FOR ANY AND ALL DAMAGES AND LOSSES CAUSED BY THE NEGLIGENCE OF THE CONTRACTOR, SUB-CONTRACTOR, TRADESMAN OR WORKMEN. THE USE OF THESE DRAWINGS ALSO IMPLIES THAT THE ARCHITECT SHALL TAKE NO RESPONSIBILITY FOR THE PLANNED USER'S FAILURE TO CARRY OUT THE WORK IN ACCORDANCE WITH THE DRAWINGS OR CONTRACT DOCUMENTS.

David L. Jenkins & Assocs., P.C.
ARCHITECTS AND PLANNERS

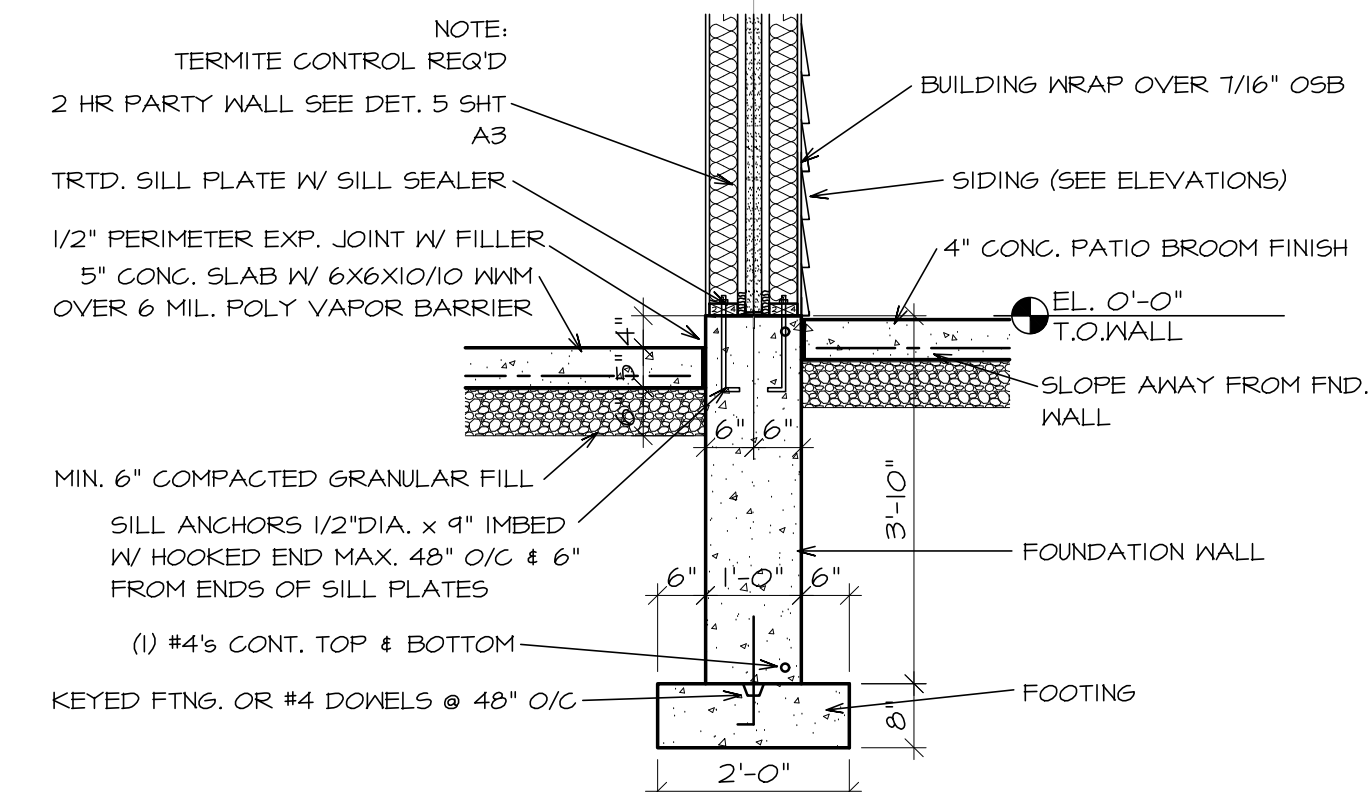
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DATE: 12-12-22	PROJECT NAME: HAWKS POINTE - B	SHT. NO.: A1
REVISED:	ROSCOE, IL	
		OF: 7



OVERALL FOUNDATION PLAN 3 UNIT

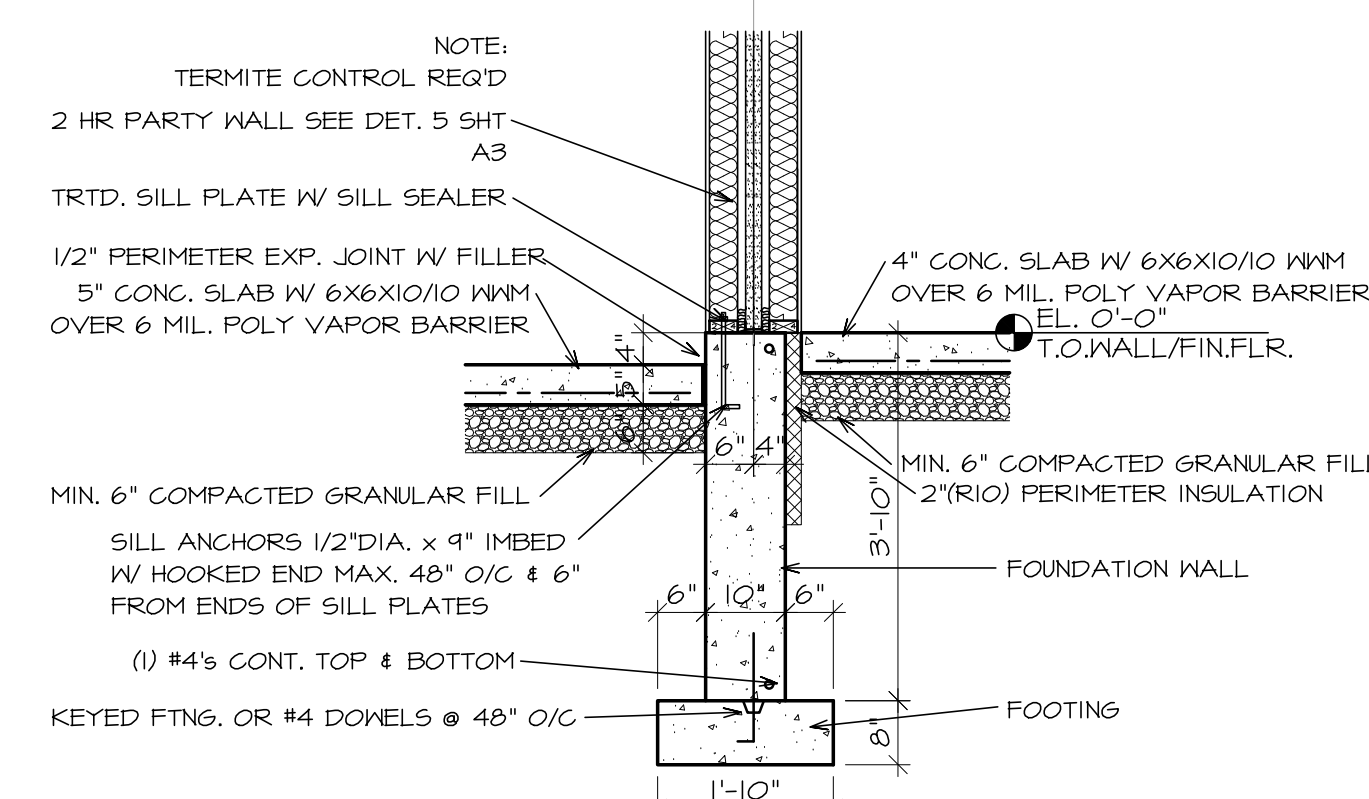
SCALE 1/4" = 1'-0"

NOTE: DIMENSIONS SHOWN ARE TO EITHER FACE OF FOUNDATION WALL OR CENTERLINE OF THICKENED SLAB



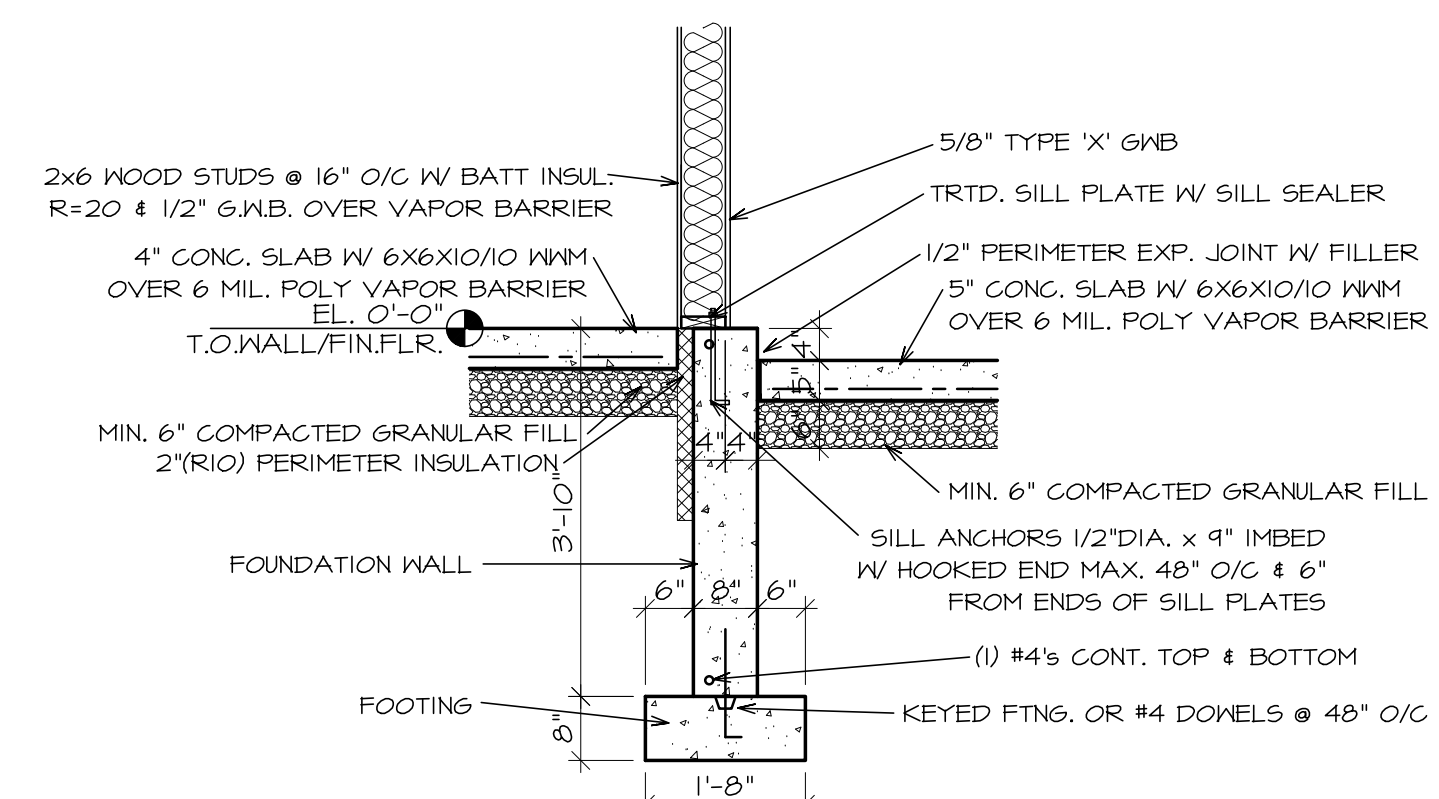
1 PARTY WALL FOUNDATION

SCALE: 1/2" = 1'-0"



2 PARTY WALL FOUNDATION

SCALE: 1/2" = 1'-0"



3 GARAGE FOUNDATION WALL

SCALE: 1/2" = 1'-0"

David L. Jenkins & Assocs., P.C.
ARCHITECTS AND PLANNERS

2020 GLENVIEW RD. ROSCOE, ILLINOIS
PHONE (815) 397-9771 FAX (815) 397-9795

FILE NAME:

044-22 RTB

DATE:

12-12-22

REVISED:

CONTRACTOR:

White Oak Home Builders, LLC

PROJECT NAME:

HAWKS POINTE - B
ROSCOE, IL

PROJECT NO.:

044-22

SHT. NO.:

A2

OF: 7

THE ARCHITECT IS NOT PROVIDING PROJECT CONSTRUCTION SUPERVISION OR ANY FORM OF PROJECT MANAGEMENT FOR THE BUILDING COVERED BY THIS SET OF DOCUMENTS. THE USE OF THESE DRAWINGS BY ANY CONTRACTOR, SUB-CONTRACTOR, BUILDER'S TRADESMEN OR WORKER SHALL INSTIGATE A HOLD HARMLESS AGREEMENT BETWEEN THE DRAWING USER AND THE ARCHITECT. THE USER OF THE DRAWINGS AGREES TO HOLD THE ARCHITECT HARMLESS FOR ANY RESPONSIBILITY IN REGARDS TO CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES AND FOR ANY SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK AND FURTHER SHALL HOLD THE ARCHITECT HARMLESS FOR COST AND PROBLEMS ARISING FROM THE NEGLIGENCE OF THE CONTRACTOR, SUB-CONTRACTOR, TRADESMEN OR WORKMEN. THE USE OF THESE DRAWINGS ALSO IMPLIES THAT THE ARCHITECT SHALL TAKE NO RESPONSIBILITY FOR THE PLANNED USER'S FAILURE TO CARRY OUT THE WORK IN ACCORDANCE WITH THE DRAWINGS OR CONTRACT DOCUMENTS.

CONCRETE NOTES

1. READY MIXED CONCRETE SHALL BE AS FOLLOWS. ALL CONCRETE WORK IN ACCORDANCE WITH ACI LATEST CODES AND APPLICABLE SPECIFICATIONS.
- STRUCTURAL CONCRETE - (FOOTINGS, WALLS, PIERS, ETC.)
- STRENGTH - MINIMUM OF 3,000 PSI COMPRESSIVE STRENGTH IN 28 DAYS.
- MIX - MINIMUM OF 6 BAGS MIX OR 4 1/2 BAGS WITH THE ADDITION OF ASTM 444 WATER-REDUCING ADMIXTURE.
- SUMP - MAXIMUM OF 5" FOR STANDARD MIXES OR 6" WITH THE ADDITION OF ASTM 444 WATER-REDUCING ADMIXTURE.
- WATER CEMENT RATIO - SHALL NOT EXCEED 0.53 BY WEIGHT.
- AIR ENTRAINMENT - 4% MINIMUM TO 7% MAXIMUM.
- NOTE: CONFIRMATION OF THIS MIX MUST BE IDENTIFIED ON EACH "REDMIX TICKET" THAT ACCOMPANIES EACH DELIVERY.
- INTERIOR SLABS CONCRETE
- STRENGTH - MINIMUM OF 4,000 PSI COMPRESSIVE STRENGTH IN 28 DAYS.
- MIX - MINIMUM OF 6 BAGS (OR 5 1/2 BAGS WITH ADDITION OF ASTM 444 WATER-REDUCING ADMIXTURE).
- SUMP - MAXIMUM OF 5" FOR STANDARD MIXES OR 6" WITH ADDITION OF ASTM 444 WATER-REDUCING ADMIXTURE.
- WATER CEMENT RATIO - SHALL NOT EXCEED 0.50 BY WEIGHT.
- AIR ENTRAINMENT - 0% MINIMUM TO 3% MAXIMUM.
- NOTE: CONFIRMATION OF THIS MIX MUST BE IDENTIFIED ON EACH "REDMIX TICKET" THAT ACCOMPANIES EACH DELIVERY.
- FLOOR FINISHES AND LEVELNESS - FLOORS UNDER TOP-INSET TILE AND BEDS - (FI) OF 20, (FI) OF 15. FLOORS UNDER VCT, SEALERS, PAINT AND CARPET - (FI) OF 20, (FI) OF 11.
- MIN LOCAL VALUE FFIS / FLIO
- EXTERIOR SLABS CONCRETE
- STRENGTH - 4,000 PSI COMPRESSIVE STRENGTH IN 28 DAYS.
- MIX - MINIMUM 6 BAGS.
- SUMP - MAXIMUM 4".
- WATER CEMENT RATIO - SHALL NOT EXCEED 0.45 BY WEIGHT.
- AIR ENTRAINMENT - 5% MINIMUM TO 8% MAXIMUM.
- COARSE AGGREGATE - SHALL BE STATE OF ILLINOIS "SUPERSTRUCTURE QUALITY" GRADE AND SHALL CONTAIN NO MORE THAN 2% TOTAL BY WEIGHT OF DELETERIOUS MATERIALS WHOSE DISINTEGRATION IS ACCOMPANIED BY AN INCREASE IN VOLUME WHICH MAY CAUSE SPALLING IN THE CONCRETE.
- FINE AGGREGATE - CLEAN NATURAL SAND.
- GENERAL NOTES
- NOTE: ON ALL EXTERIOR FLATWORK POURED AFTER SEPT, IS THE MINIMUM CEMENT CONTENT SHALL BE INCREASED TO 6-1/2 BAGS AND CALCIUM CHLORIDE SHALL BE ADDED TO A RATE OF 1/2%-2% BY WEIGHT. CALCIUM CHLORIDE SHALL BE ADDED IN SOLUTION AND MIXED THOROUGHLY. DO NOT USE WATER REDUCING AGENTS.
- NOTE: CONFIRMATION OF THIS MIX MUST BE IDENTIFIED ON EACH "REDMIX TICKET" THAT ACCOMPANIES EACH DELIVERY.

2. INTERIOR CONCRETE SLABS SHALL BE OF THICKNESS AS SHOWN ON THE DRAWINGS AND REINFORCED AS SHOWN ON THE DRAWINGS AND SHALL RECEIVE ONE COAT OF A HARDENER, DAYTON-SUPERIOR (JIS) OR SONNEBORN'S LAPIDOLITH OR A CURER/SEALER, DAYTON-SUPERIOR (L20) OR SONNEBORN'S KURE-N-SEAL, 25 FOR CURE ONLY USE DAYTON-SUPERIOR'S (JIN) OR KUR, WEADOWS 1100-CLEAR, FOR APPLIED FLOORS (VCT, CERAMIC, ETC.) SHEET OR KET CURE ONLY.
3. INTERIOR CONCRETE SLABS SHALL HAVE A MONOLITHIC STEEL-TROWELED FINISH.
4. CURE AND PROTECT ALL CAST IN PLACE CONCRETE PER ACI CODE REQUIREMENTS.
5. FOUNDATION WALLS SHALL BE AS PER ARCHITECTURAL PLANS. ALL COLD JOINTS SHALL BE DONE TOGETHER WITH #4 DOWELS, 12" O/C VERTICALLY. ALL REINFORCING SHALL BE CONTINUOUS FROM POUR TO POUR.
6. ALL REINFORCING BARS TO BE BILLET STEEL BARS ASTM A-15, GRADE 40.
7. CONSTRUCTION AND/OR CONTROL JOINTS SHALL BE PROVIDED AS REQUIRED, NOT MORE THAN 225 SQUARE FOOT AREAS, WHERE JOINT FILLER IS CALLED FOR USE: SONOMERIC I, SONOLASTIC, TRENGO DYMERIC, TRENGO LASTO-MERIC OR EQUAL, IE VINYL SIDING.
8. A 2" EXPANSION JOINT SHALL BE PROVIDED AROUND THE ENTIRE PERIMETER OF THE BUILDING FLOOR AND 1/2" AROUND EACH PIER AND CENTER COLUMN.
9. PROVIDE 6" COMPACTED GRANULAR FILL UNDER CONCRETE SLABS ON GRADE AS A MINIMUM REQUIREMENT WHEN FILL IS NOT SPECIFIED IN THE DRAWINGS. COVER W/ 6 MIL POLY VAPOR BARRIER.
10. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO PROVIDE REQUIRED CONCRETE PADS FOR ELECTRICAL AND HVAC EQUIPMENT.
11. ALL CONCRETE HAS BEEN DESIGNED BASED ON THE GEOTECHNICAL ENGINEERING REPORT'S BEARING CAPACITY OF 3,000 PSF. IF THE CONTRACTOR SHOULD ENCOUNTER POOR SOIL, HE WILL CONTACT THE ARCHITECT IMMEDIATELY.
12. WHERE CONTRADICTIONS ON THE PLANS AND/OR SPECIFICATIONS EXIST, THE ITEM REQUIRING THE GREATER MATERIAL AND/OR LABOR SHALL TAKE PRECEDENT.
13. AIR-ENTRAINING ADMIXTURE SHALL BE USED FOR ALL CONCRETE EXPOSED TO THE WEATHER. NO OTHER ADMIXTURES SHALL BE ADDED TO THE CONCRETE.
14. SEE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL OPENINGS, DEPRESSIONS, CURBS, FLOOR FINISHES, INSERTS AND OTHER EMBEDDED ITEMS. VERIFY SIZES AND LOCATION FOR ALL OPENINGS IN CONCRETE PRIOR TO FORMING.
15. ALL CONCRETE TOPPING SLABS SHALL HAVE A MINIMUM ULTIMATE COMPRESSIVE STRENGTH OF 3,000 POUNDS PER SQUARE INCH AT 28 DAYS.
16. ELEVATION TOP OF FOOTINGS IS SHOWN ON THE PLANS. VERIFY ALL BEARING MATERIAL WITH THE ARCHITECT. ALL FOOTINGS SHALL BEAR ON SOLID UNDISTURBED SOIL. NO CONCRETE SHALL BE POURED IN EXCAVATIONS CONTAINING WATER.
17. ALL FILL AND BACKFILL FOR INTERIOR SLABS ON GRADE SHALL BE COMPACTED TO 95% OF ASTM 1557.

ANCHOR BOLT NOTES

ANCHOR BOLTS SHALL BE AS SHOWN AND CALLED FOR, INCLUDING PROJECTION FROM CONCRETE, DIAMETER, AND QUANTITY.

ALL ANCHOR BOLTS SHALL BE ASTM A307 OR EQUAL IE VINYL SIDING IN ORDER TO CONFORM TO A.B.C. DESIGN ASSUMPTIONS BASED ON ALLOWABLE STRESSES GIVEN IN THE MANUAL OF STEEL CONSTRUCTION, 8TH EDITION, A.I.S.C., 1980, SECTION 1.5.

BOLT LENGTHS SHOULD BE SUFFICIENT TO ALLOW ENOUGH EMBEDMENT INTO THE CONCRETE FOR THE BOND STRENGTH (WITH OR WITHOUT HOOK) TO DEVELOP AT LEAST 75% OF THE ALLOWABLE TENSILE CAPACITY OF THE BOLT, AND IN NO CASE SHALL THE LENGTH BE LESS THAN 20 TIMES THE NOMINAL DIAMETER OF THE BOLT UNLESS OTHERWISE NOTED.

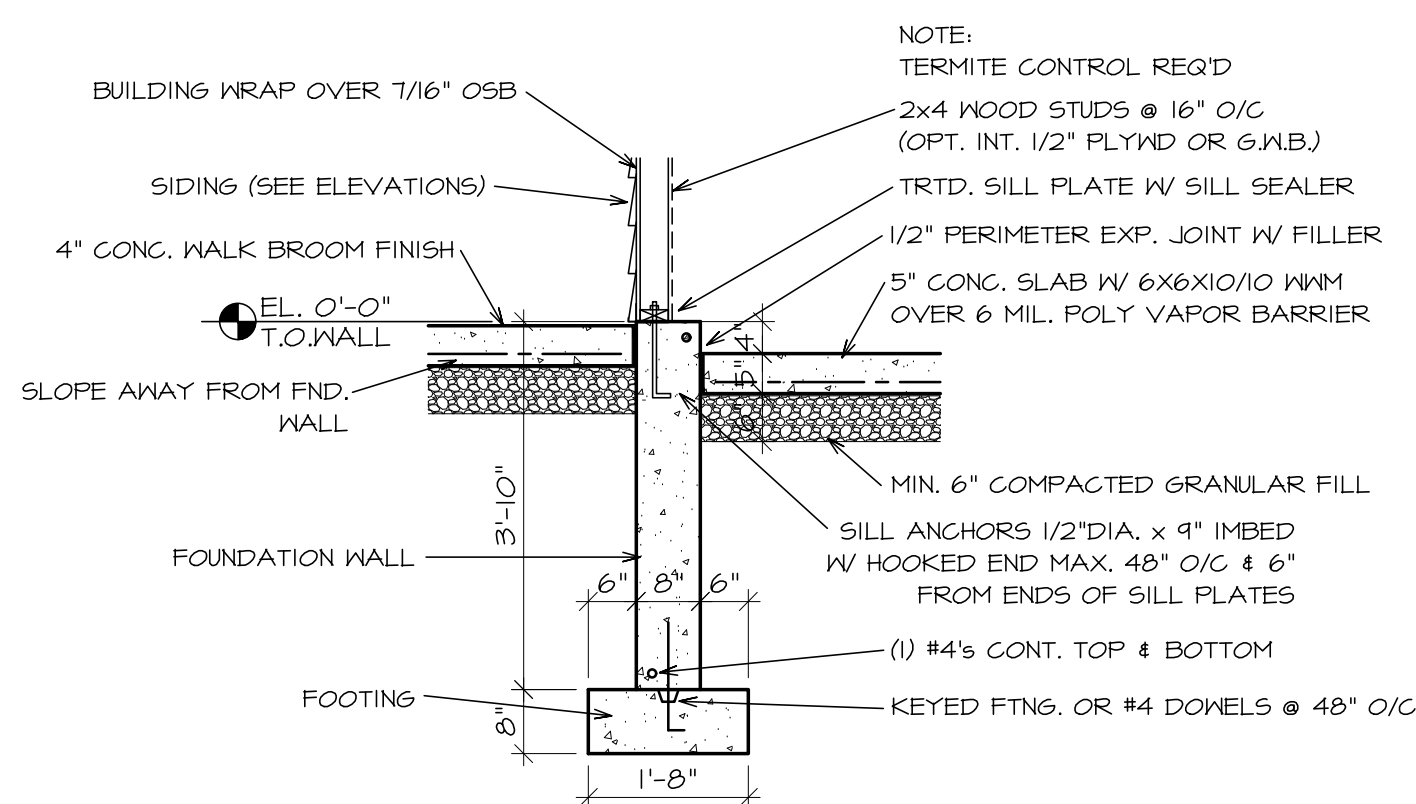
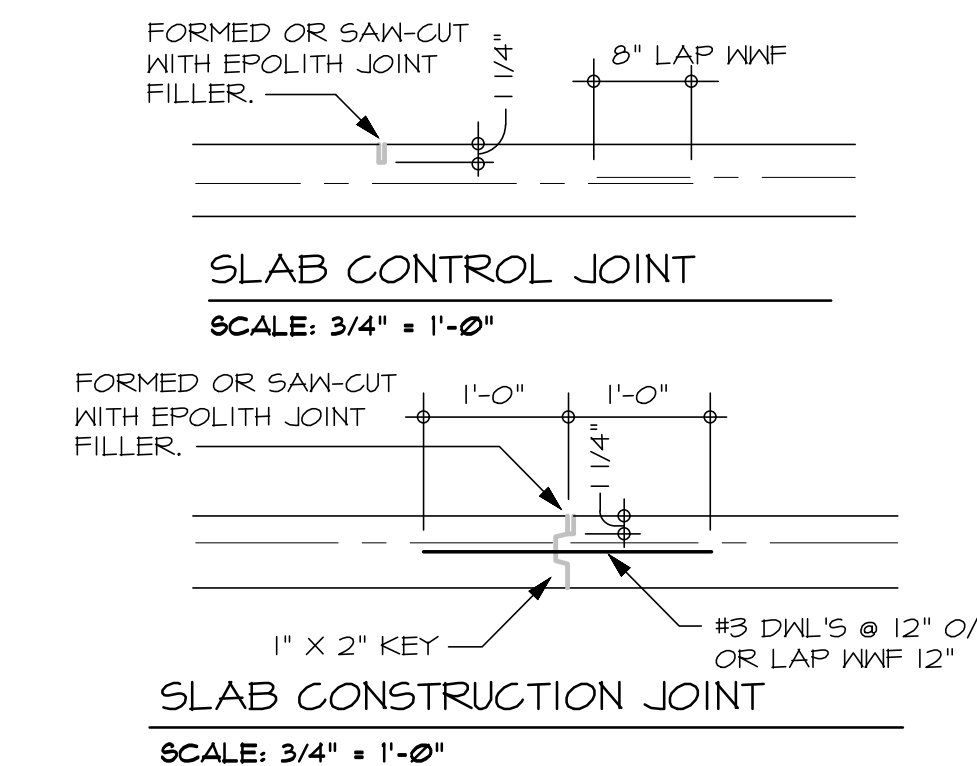
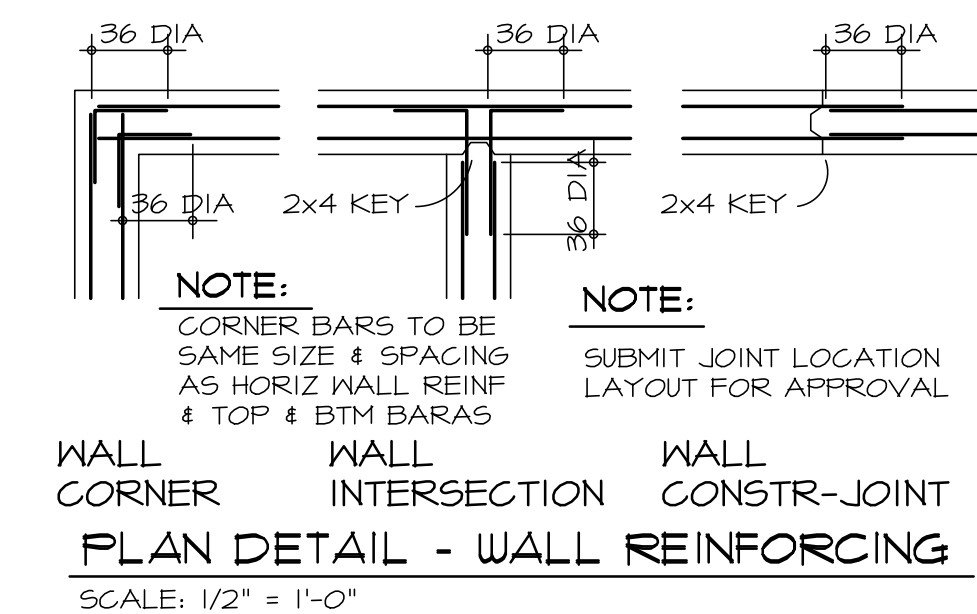
ALL ANCHOR BOLT DESIGN IS BASED ON THEIR PLACEMENT IN CONCRETE WITH AN ULTIMATE CONCRETE WITH AN ULTIMATE CONCRETE COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS.

FOOTING ALTERNATE #1
IN LIEU OF KEYED FOOTING
PROVIDE #4 "J" BARS @ 4'-0" O.C.

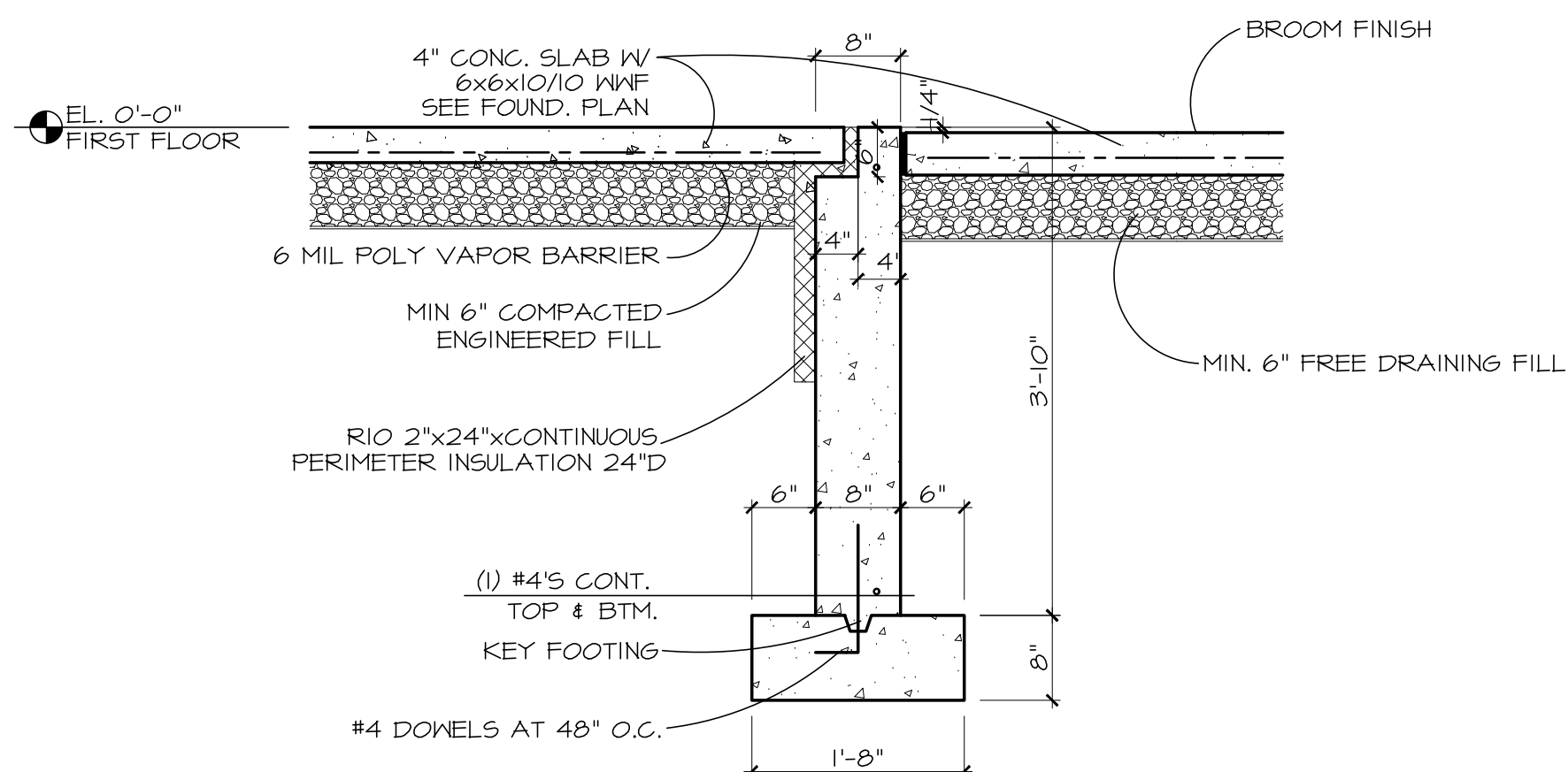
FOOTING ALTERNATE #2
IN LIEU OF KEYED FOOTING
PROVIDE #4 ANGLED BARS @ 4'-0" O/C

DIAMETER	LENGTH = L
1/2"	4"
3/4"	13 1/2"
1"	18"
1 1/4"	22 1/2"

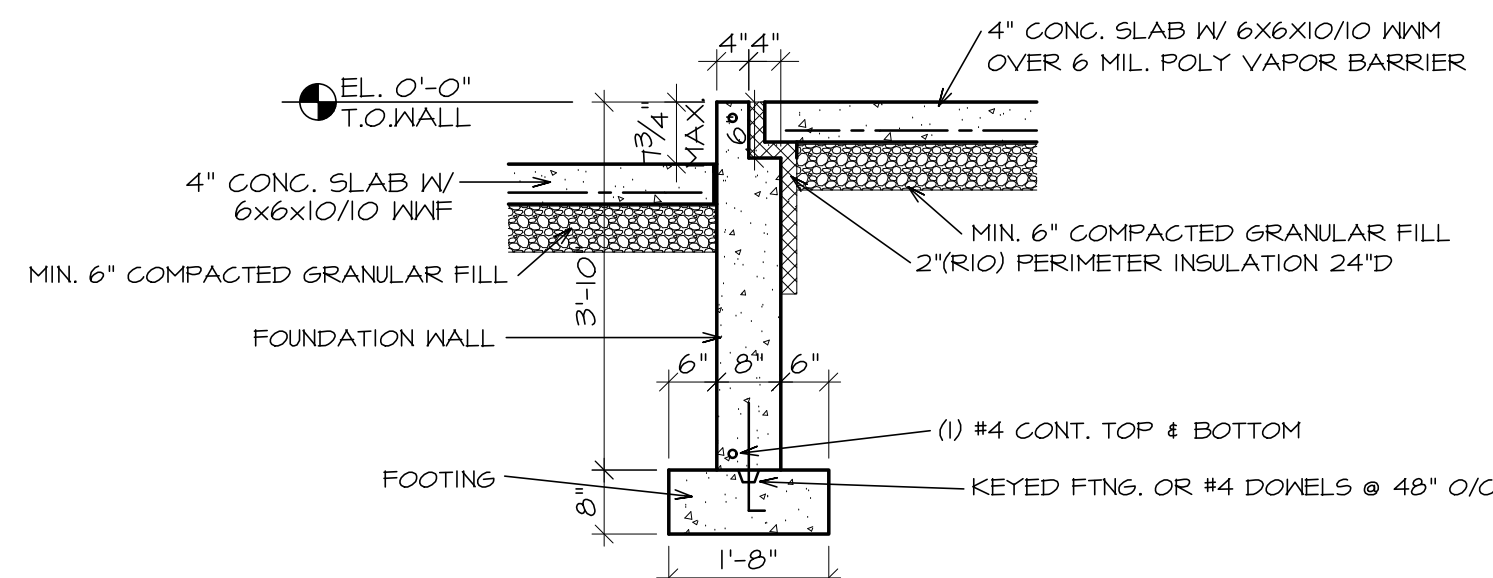
REC. A. B. DETAIL



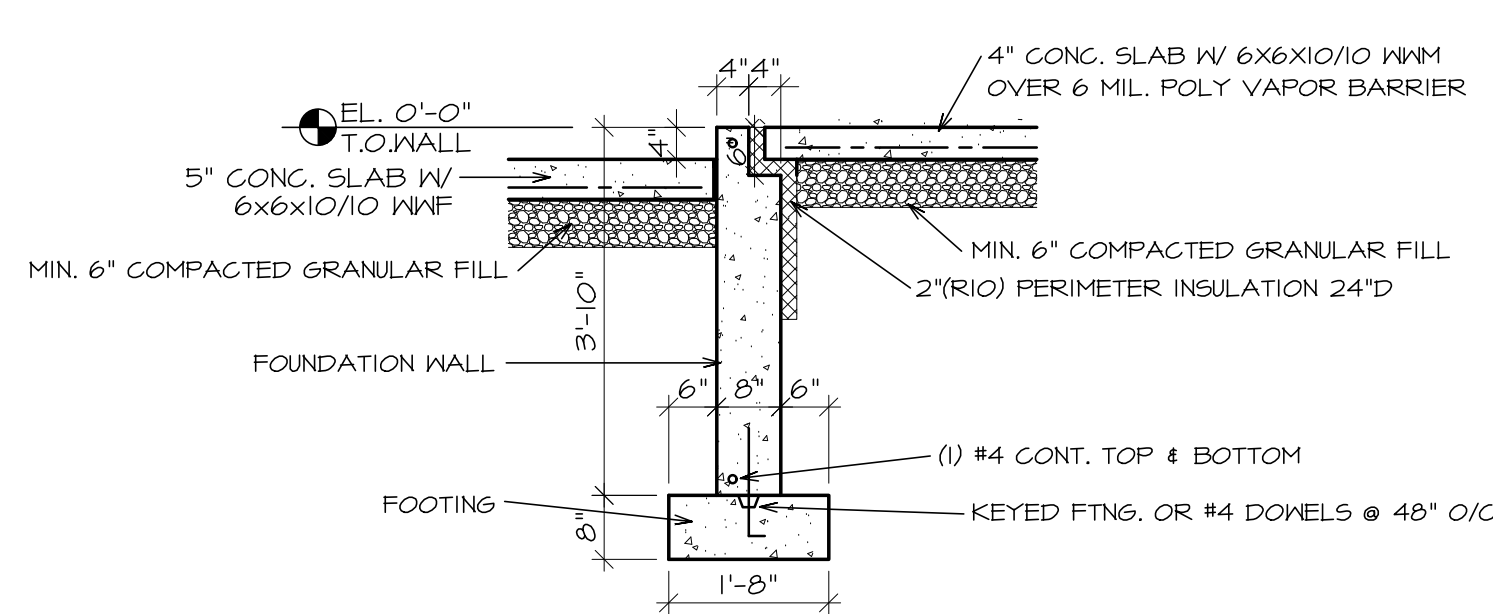
9 GARAGE FOUNDATION WALL
SCALE: 1/2" = 1'-0"



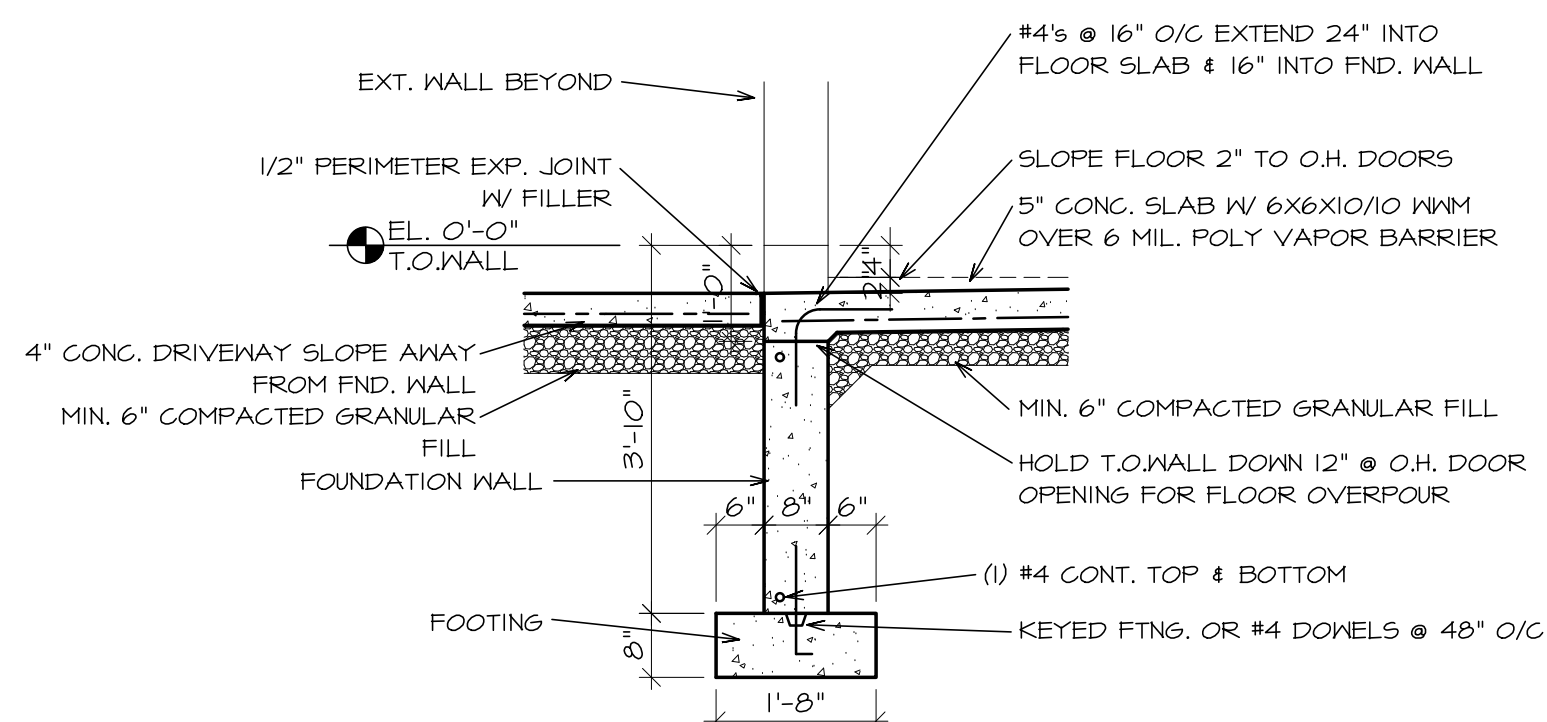
1 FND. WALL @ ENTRY DOORS
SCALE: 3/4" = 1'-0"



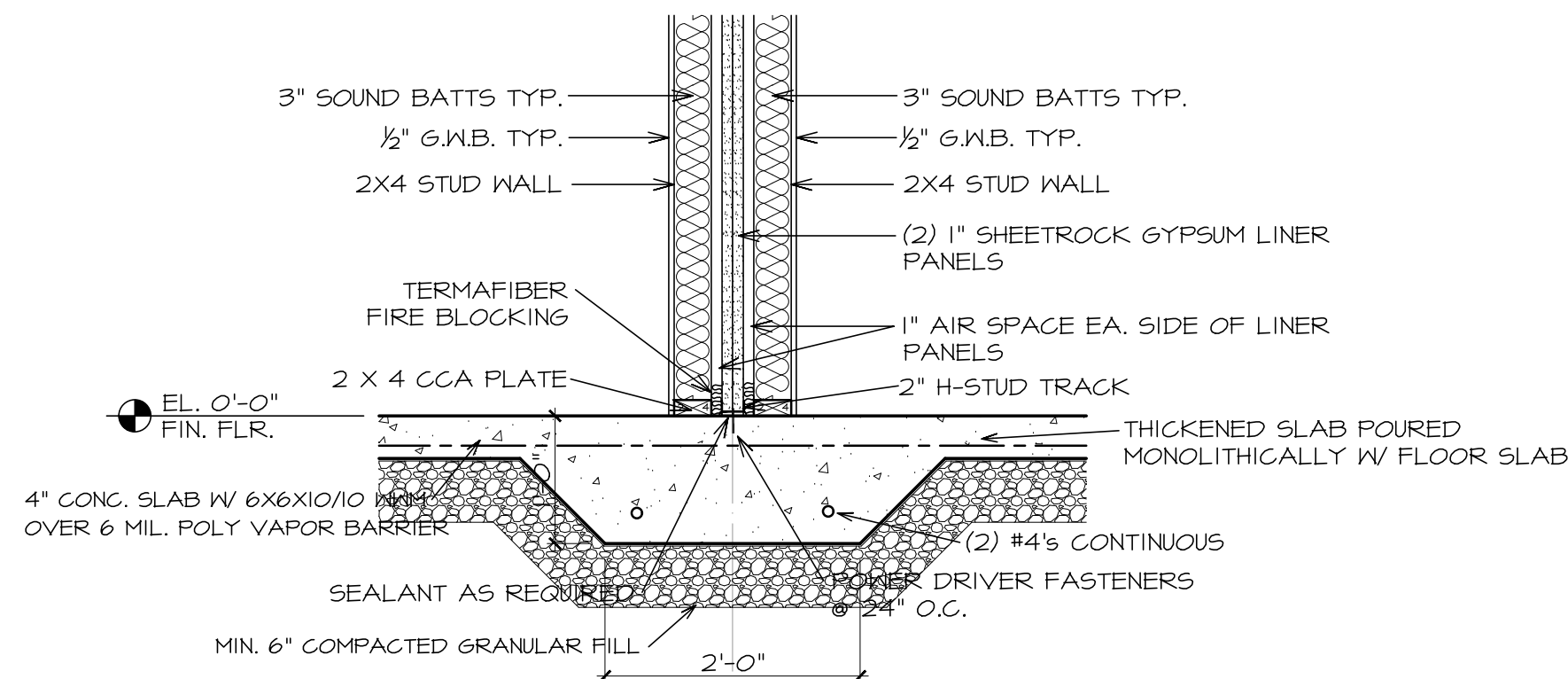
2 FOUNDATION WALL AT PATIO
SCALE: 1/2" = 1'-0"



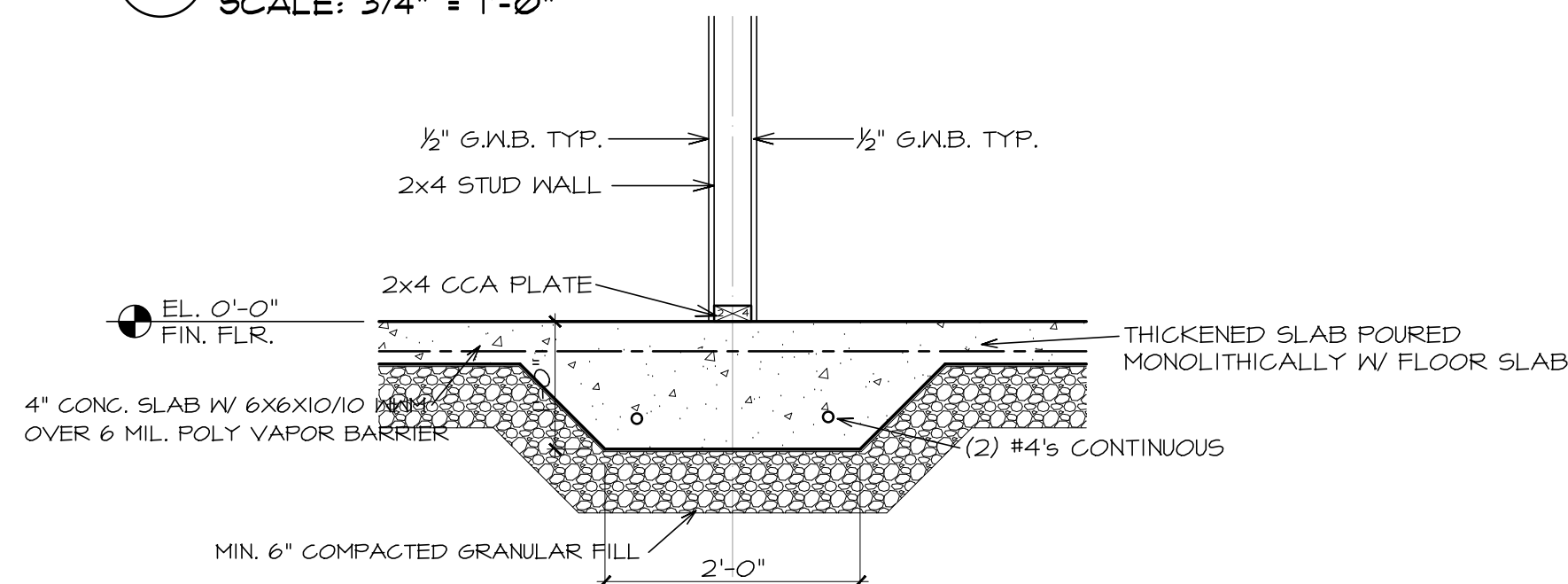
3 FND WALL AT GARAGE
SCALE: 1/2" = 1'-0"



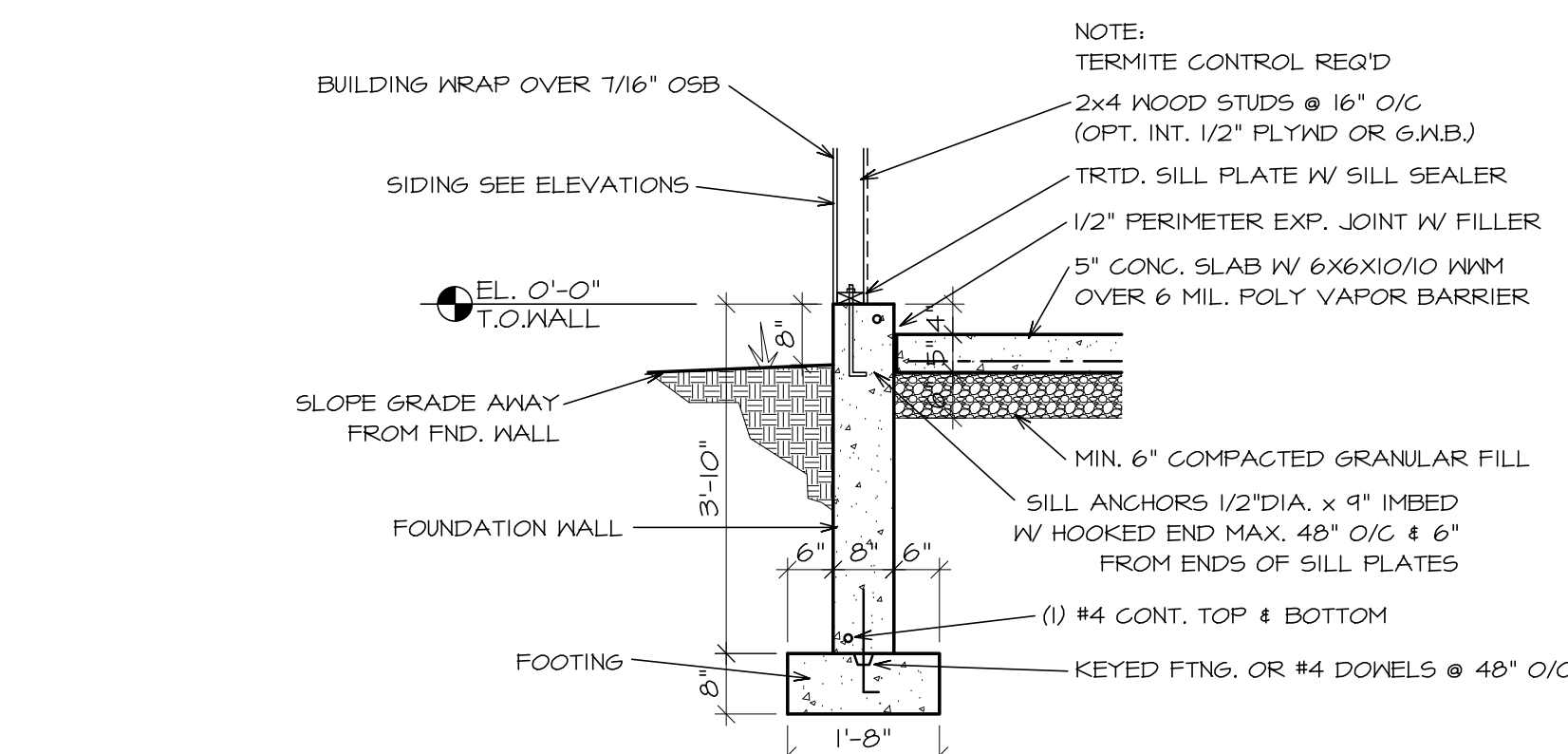
4 FND. WALL AT O.H. DOOR
SCALE: 1/2" = 1'-0"



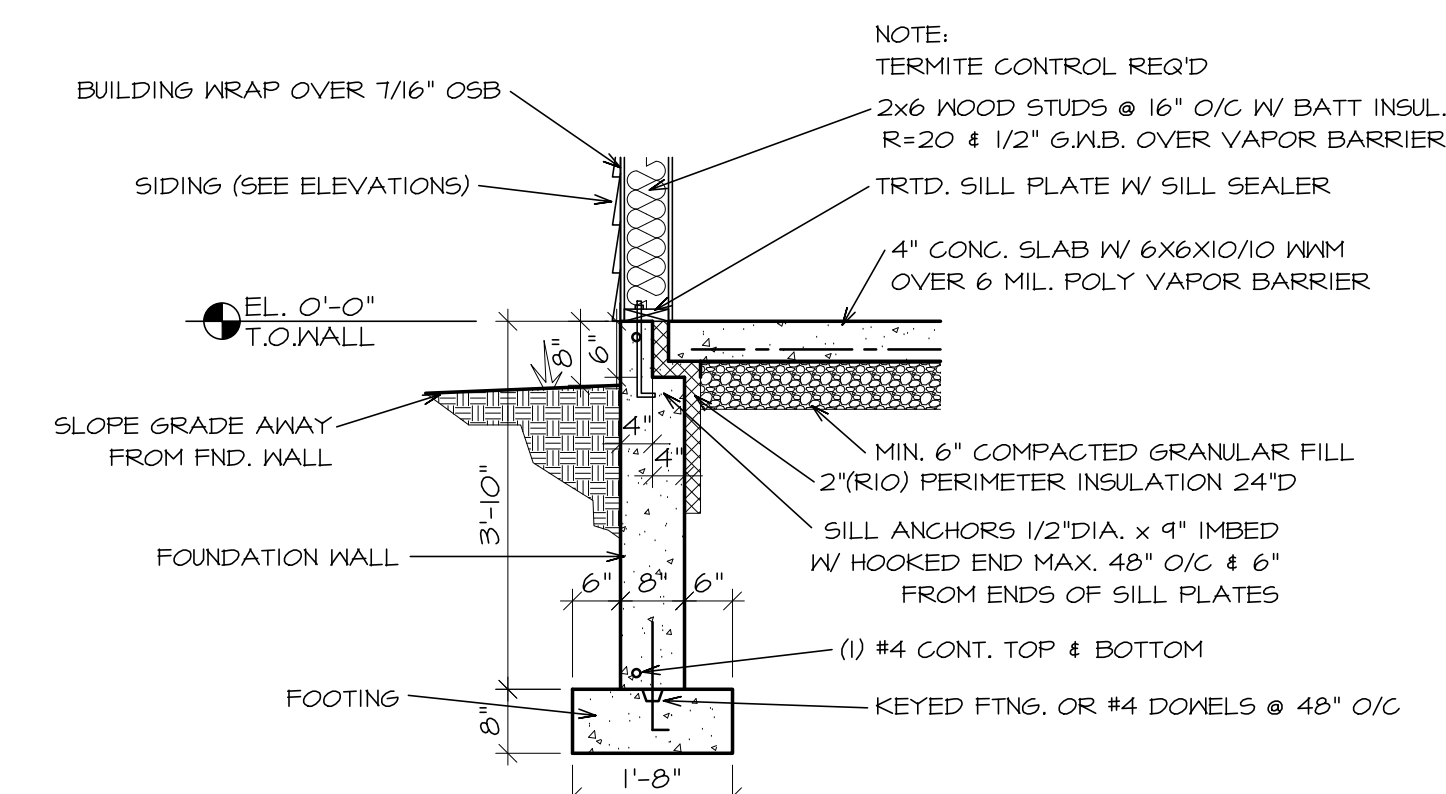
5 THICKENED SLAB DETAIL @ PARTY WALL
SCALE: 3/4" = 1'-0"



6 THICKENED SLAB DETAIL
SCALE: 3/4" = 1'-0"

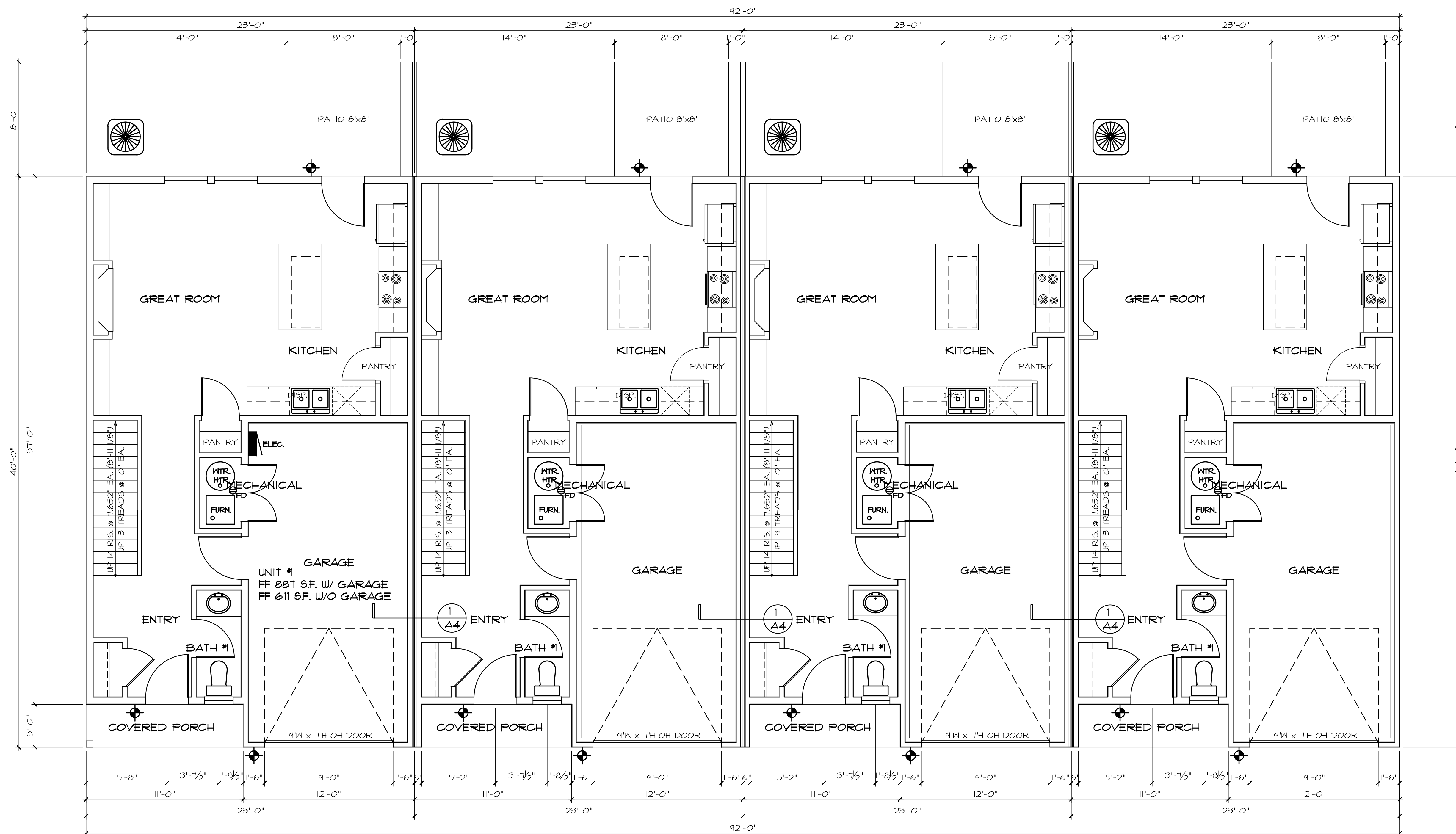


7 GARAGE FOUNDATION WALL
SCALE: 1/2" = 1'-0"



8 TYP. FOUNDATION WALL
SCALE: 1/2" = 1'-0"

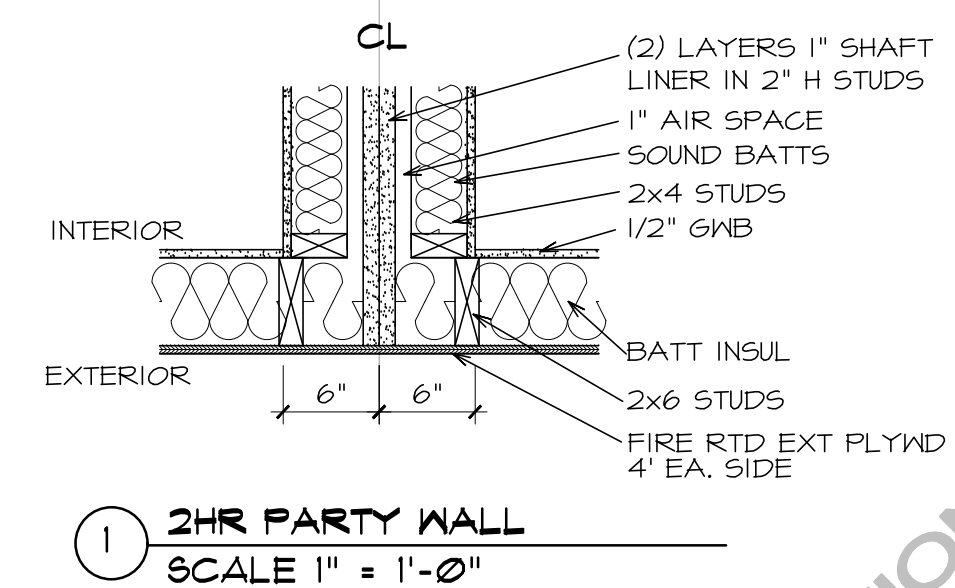
David L. Jenkins & Assocs., P.C. ARCHITECTS AND PLANNERS 2020 GLENVIEW RD. - ROCKFORD, ILLINOIS PHONE (815) 397-9771 - FAX (815) 397-9795			
FILE NAME: 044-22 RTB	CONTRACTOR: White Oak Home Builders, LLC	PROJECT NO.:	044-22
DATE: 12-12-22	PROJECT NAME: HAWKS POINTE - B	SHT. NO.:	A3
REVISED:	ROSCOE, IL	OF: 7	44



OVERALL FIRST FLOOR PLAN 4 UNIT

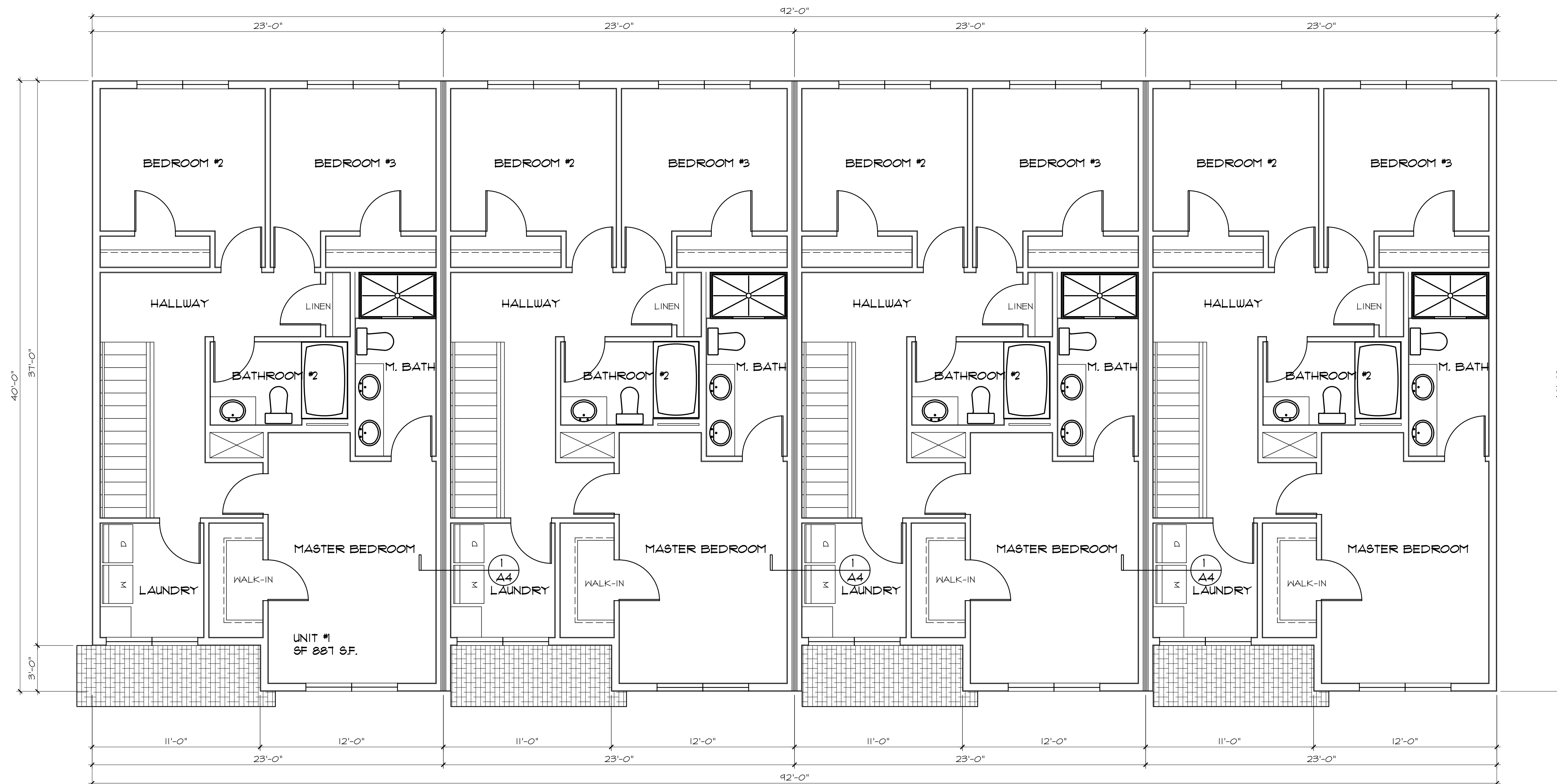
SCALE 1/4" = 1'-0"

NOTE: DIMENSIONS SHOWN ARE TO EITHER FACE OF FOUNDATION WALL OR CENTERLINE OF THICKENED SLAB



THE ARCHITECT IS NOT PROVIDING PROJECT CONSTRUCTION SUPERVISION OR ANY FORM OF PROJECT MANAGEMENT FOR THE BUILDING COVERED BY THIS SET OF DOCUMENTS. THE USE OF THESE DRAWINGS BY ANY CONTRACTOR, SUB-CONTRACTOR, BUILDER'S TRADESMEN OR WORKER SHALL INSTIGATE A HOLD HARMLESS AGREEMENT BETWEEN THE DRAWING USER AND THE ARCHITECT. THE USER OF THE DRAWINGS AGREES TO HOLD THE ARCHITECT HARMLESS FOR ANY RESPONSIBILITY IN REGARDS TO CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES AND FOR ANY SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK AND FURTHER SHALL HOLD THE ARCHITECT HARMLESS FOR COST AND PROBLEMS ARISING FROM THE NEGLIGENCE OF THE CONTRACTOR, SUB-CONTRACTOR, TRADESMEN OR WORKMEN. THE USE OF THESE DRAWINGS ALSO IMPLIES THAT THE ARCHITECT SHALL TAKE NO RESPONSIBILITY FOR THE PLANNED USER'S FAILURE TO CARRY OUT THE WORK IN ACCORDANCE WITH THE DRAWINGS OR CONTRACT DOCUMENTS.

David L. Jenkins & Assoc., P.C. ARCHITECTS AND PLANNERS		PROJECT NO.: 044-22
FILE NAME: 044-22 RTB	CONTRACTOR: White Oak Home Builders, LLC	SHT. NO.: A4
DATE: 12-12-22	PROJECT NAME: HAWKS POINTE - B	OF: 7
REVISED:	ROSCOE, IL	



OVERALL SECOND FLOOR PLAN 4 UNIT

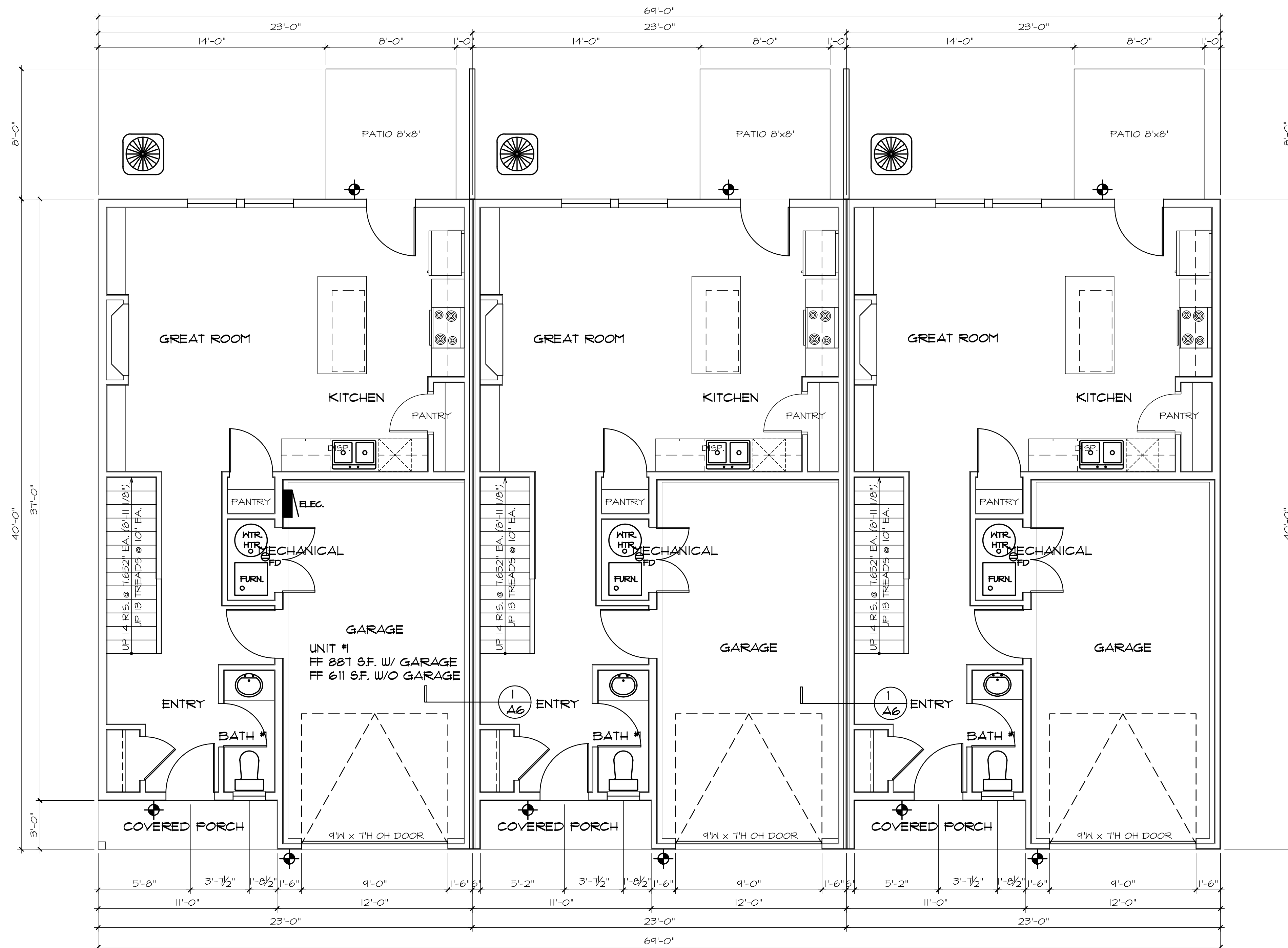
SCALE 1/4" = 1'-0"

NOTE: DIMENSIONS SHOWN ARE TO EITHER FACE OF FOUNDATION WALL OR CENTERLINE OF THICKENED SLAB

THE ARCHITECT IS NOT PROVIDING PROJECT CONSTRUCTION SUPERVISION OR ANY FORM OF PROJECT MANAGEMENT FOR THE BUILDING COVERED BY THIS SET OF DOCUMENTS. THE USE OF THESE DRAWINGS BY ANY CONTRACTOR, SUB-CONTRACTOR, BUILDER'S TRADESMEN OR WORKER SHALL INSTIGATE A HOLD HARMLESS AGREEMENT BETWEEN THE DRAWING USER AND THE ARCHITECT.

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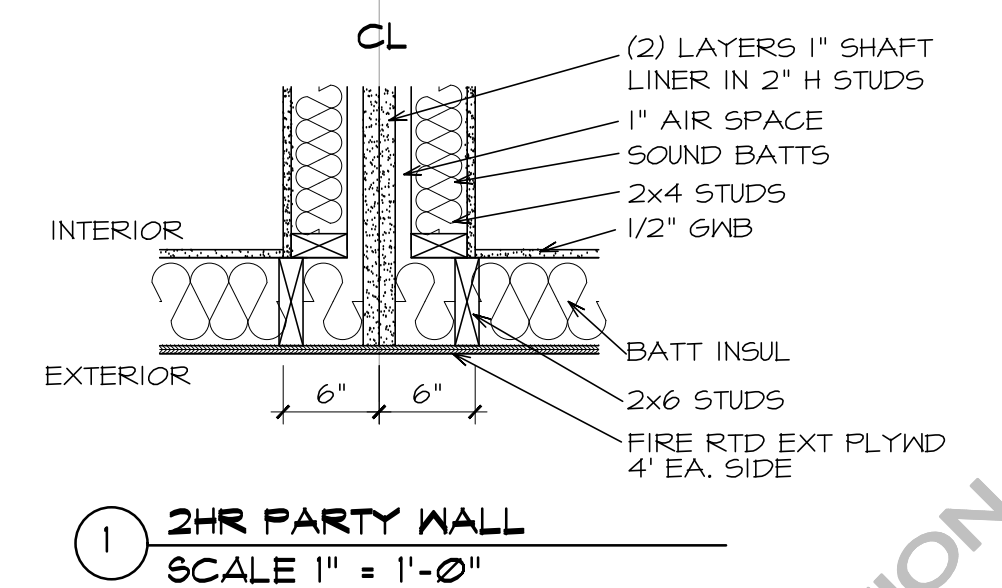
David L. Jenkins & Assoc., P.C.			
ARCHITECTS AND PLANNERS			
2020 GLENVIEW RD - ROCKFORD, ILLINOIS PHONE (815) 397-9771 - FAX (815) 397-9795			
FILE NAME: 044-22 RTB	CONTRACTOR: White Oak Home Builders, LLC	PROJECT NO.:	044-22
DATE: 12-12-22	PROJECT NAME: HAWKS POINTE - B	SHT. NO.:	A5
REVISED:	ROSCOE, IL	OF:	7



OVERALL FIRST FLOOR PLAN 3 UNIT

SCALE 1/4" = 1'-0"

NOTE: DIMENSIONS SHOWN ARE TO EITHER FACE OF FOUNDATION WALL OR CENTERLINE OF THICKENED SLAB



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David L. Jenkins & Assoc., P.C. ARCHITECTS AND PLANNERS		2020 GLENVIEW RD - ROCKFORD, ILLINOIS PHONE (815) 397-9771 - FAX (815) 397-9795
FILE NAME: 044-22 RTB	CONTRACTOR: White Oak Home Builders, LLC	PROJECT NO.: 044-22
DATE: 12-12-22	PROJECT NAME: HAWKS POINTE - B	SHT. NO.: A6
REVISED:	ROSCOE, IL	OF: 7



OVERALL SECOND FLOOR PLAN 3 UNIT

SCALE 1/4" = 1'-0"

NOTE: DIMENSIONS SHOWN ARE TO EITHER FACE OF FOUNDATION WALL OR CENTERLINE OF THICKENED SLAB

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David L. Jenkins & Assoc., P.C.
ARCHITECTS AND PLANNERS

2020 GLENVIEW RD - ROCKFORD, ILLINOIS
PHONE (815) 397-9771 FAX (815) 397-9795

FILE NAME:
044-22 RTB
DATE:
12-12-22
REVISED:

CONTRACTOR:
White Oak Home Builders, LLC

PROJECT NAME:
HAWKS POINTE - B
ROSCOE, IL

PROJECT NO.:
044-22

SHT. NO.:
A7

OF: 7

Zoning Board of Appeals Meeting of February 12th, 2025**Application No. ZBA 2025-005****Applicant:** Joshua Petry**Location:** PIN #08-06-101-009, Roscoe Road**Requested Action:** Final Plat Approval**Existing Use:** Vacant Land**Proposed Use:** Vacant Land**Existing Zoning:** RM (Residential-Multifamily)**Adjacent Zoning:**

North: Outside Village (Across Roscoe Road)

East: CG (contiguous)

South: R1 (contiguous)

West: Outside Village (Across Old River Road)

Description: The applicant is requesting final plat approval for Hawk's Point Plat 6, which is located at the corner of Roscoe Road and Old River Road. Originally, this plat was approved through the final stage on April 18, 2023 by the Village Board. However, at the May 2, 2023 Village Board meeting, the Board voted to rescind approval for the plat. The justification for this decision was based on the idea that new information was presented, which would allow Board votes to be changed, but only from the 'prevailing side' on an item. In other words, due to the bond condition of the approval not being completed yet, the Board had the justification to rescind approval.

The applicant then brought a lawsuit against the Village, alleging that they were entitled to the final plat approval from the Board's April 18 meeting. Through lengthy discussions and negotiations with the Village and both attorneys, the Village and the applicant were able to settle their dispute out of court. Part of these negotiations was the establishment of an agreed upon site plan for the plat. Because of this, the applicant is entitled to a plat that accurately reflects the site plan within this settlement agreement.

Analysis: Based on the information above, the materials provided by the applicant for final plat approval should accurately reflect what was agreed on within the settlement agreement. The applicant provided staff with an updated plat on December 20, 2024. The buildings and structures

within this updated plat match those within the settlement's site plan. The landscaping plan for the plat also either meets or exceeds the plantings from the original final plat approval.

Staff Recommendation: Staff recommends **approval** of the final plat for Hawk's Point Plat 6 subject to the following conditions:

Applicant must address engineering review comments on the letter dated January 29, 2025.

January 29, 2025

Mr. Jeff Linkenheld
Partner, Project Manager
Arc Design Resources Inc.
5291 Zenith Parkway
Loves Park, Illinois 61111

Re: HAWKS POINTE PLAT 6

Dear Mr. Linkenheld,

On behalf of the Village of Roscoe, Fehr Graham has reviewed the subdivision plan set, stormwater memo, and final plat for the above-referenced project for compliance with the Village of Roscoe Code of Ordinances. The plans were prepared by Arc Design Resources Inc., dated December 18, 2024, and received on December 20, 2024. An engineering review was completed and generated the following comments:

General Plan Comments:

- Please provide record of Winnebago County Highway Department approval for the detention pond to discharge to the Roscoe Road right-of-way as well as the geometry and ditch side slopes for Old River Road.
- Please provide record of Winnebago County Highway Department approval for the roadway improvements along Old River Road.
- Please provide record of North Park Public Water District approval for the water infrastructure improvements.
- Please provide record of Four Rivers Sanitation Authority approval for the sanitary sewer infrastructure improvements.
- Per the settlement agreement, the developer shall submit/record a covenant or declaration of maintenance to maintain the common areas and private drives as depicted on the site plan.
- Please provide an updated estimate of cost for the public improvements. Once reviewed and approved by the Village, this estimate of cost will be used to establish a performance bond/certified check guaranteeing that the improvements will be constructed and approved within one (1) year from the date of the recording of the plat (Section 15-314 – Required Improvements).

Storm Sewer Report Comments:

- Provide a line map for the Hydraflow storm sewer pipe and structures.
- None of the Hydraflow Inlet Section sheets show what would be the triple inlet 700 called out at station 107+43.54 in the construction plans. Revise the Hydraflow model to account for the triple inlet.
- Provide the storm sewer summary and inlet report tables for the 5-year Hydraflow simulation.
- The allowed spread appears to be okay for inlets D30 and D32; however, the use of Sweeper inlets is not acceptable. Sweeper inlets are specialty inlets that are not typically used in the area. Modify the Hydraflow model to show either triple 700 inlet, double 700 inlet, 700 inlet or inlet special No. 3/No. 5 as indicated on the construction plan details and plan & profiles.

Plat Comments:

- Easements, Section 15-280 – The storm sewer pipe and inlet on the NPPWD water tower site should be placed within an easement.
- Article V. – Final Plats, Sec. 15-256(2)b – The exact location of the subdivision is indicated by distances and bearings with reference to a corner or corners established in the U.S. Public Land Survey. Please add a bearing and distance from the Northwest corner of Section 6 to some point on the subdivision plat.
- Article V. – Final Plats, Sec. 15-256(2)b – The names of adjoining streets, state highways, and subdivisions are shown in their proper location, underscored by a dotted line. Please update the plat accordingly.
- Sheet 1 – Lot 204 is under the centerline distance of Cooper Drive. Please move the lot number and square footage down to get it uncovered.
- Sheet 1 – In Lot 196, a call for a 20' Storm Sewer and Drainage Easement is shown and we believe this note should be removed from Sheet 1 as it is shown on Sheet 2.
- Sheet 3 – Please update all years to 2025 for the certificates.

If you have any questions or concerns regarding these comments, please feel free to contact me.

Respectfully Submitted,



Brandon Boggs
Project Designer

BB:ss

O:\Roscoe, Village of\24-560 - 2024 Engrg Outsourcing Services\PA Final\PH02 - Site Development Review\T04 - Hawks Pointe Plat 6\24-560 PH02 T04 - Roscoe 2025-01-23 Hawks Point Comment Review Letter.docx



ZBA File # _____

**APPLICATION FOR DEVELOPMENT APPROVAL:
FINAL PLAT REVIEW AND APPROVAL**

This form is to be used for all Final Plat applications to be heard by the Village of Roscoe. Failure to complete this form properly will delay its consideration.

PART I. GENERAL INFORMATION

A. Project Information

1. Project/Owner Name: Joshua Petry, White Oak Trust
2. Project Location: SE corner of Old River Road and Roscoe Road
3. Brief Project Description:
multi use development consisting of 8 duplex homes, 25 multi-family lots, one retail/commercial lot, and one park lot
4. Project Property Legal Description:
Part of the NW quarter of Section 6 Township 45N Range 2 E of the third principal meridian
5. Project Property Size in Acres and Square Feet: 16.006 acres (697,221 sq ft)

B. Owner Information

1. Signature: _____
2. Name: Joshua Petry
3. Address: _____
4. Phone Number: _____

C. Agent Information (Designation of an agent to act on behalf of the owner is optional.)

1. Signature: _____
2. Name: Jeffrey Linkenfeld, Arc Design Resources
3. Address: _____
4. Phone Number: _____

Official Use Only

App Date _____	ZBA Date(s) _____	Zoning District _____
Com Date _____	CA Date _____	Comp Plan _____
ZBA Approved _____	Approved with conditions _____	Denied _____
CA Approved _____	Approved with conditions _____	Denied _____

PART II. APPLICATION REQUIREMENTS

The materials required to be included with an application for a Final Plat are the minimum necessary to submit a complete application. Village staff, consultants, review agencies, commissions, and boards may require additional materials as necessary to fully evaluate the proposed project. At the meeting, the Zoning Board of Appeals may add or delete items from this list as they deem appropriate. All information, including this application form, must be submitted electronically in either a PDF or Word format to the email address noted below the table. If the combined file size exceeds 10MB, a Dropbox or zip file must be used.

Official Use Only

Item #	Application Material	Initial Application		Revisions		Second Set of Revisions	
		Required Materials	# Copies Received	# Copies Required	# Copies Received	# Copies Required	# Copies Received
1.	Completed Development Application	X					
3.	Basic Application Fee	X					
4.	Agreement for Reimbursement of Professional Consulting Fees	X					
6.	Agent Affidavit	X					
7.	Property Owners within 250 feet	X					
24.	Final Plat	X					

Submit all of the above electronically to: permits@roscoeil.gov

If you have any questions, please call Janel at 815-623-2829

PART III. SITE DATA TABLE

Please fill in the following table with information about the site.

	Preliminary Plat	Final Plat
Smallest Lot Size	64,245 sq ft	10,301 sq ft
Median Lot Size	66,000 approx.	16,000 approx.
Smallest Lot Width	249.67 ft	100.99'
Smallest Lot Frontage	249.67'	100.99'
Open Space Provided	no park space	13,558 sq ft park lot (lot 179)
Area of Entire Property	16.006 acres	16.006 acres

PART IV. JUSTIFICATION OF THE PROPOSED FINAL PLAT

Please answer all questions, but be concise and brief in your answers. If additional pages are needed to complete your answers, please be sure to include the appropriate and complete question number for each response. **Applicants are encouraged to refer to drawings or other application materials as necessary to add clarity to their answers.**

- Are there any deviations/modifications from the approved Tentative Plat in terms of the number, type, location or design of the following?:

	Yes	No
Streets	<u> </u>	<u>X</u>
Alleys and Pedestrian Ways	<u>X</u>	<u> </u>
Easements	<u>X</u>	<u> </u>
Blocks	<u> </u>	<u>X</u>
Lots	<u>X</u>	<u> </u>
Public Use Areas	<u>X</u>	<u> </u>
Sanitary Sewer System	<u> </u>	<u>X</u>
Potable Water System	<u> </u>	<u>X</u>
House Services	<u> </u>	<u>X</u>
Public Utilities	<u> </u>	<u>X</u>

2. For each item answered “Yes” above please answer the following questions. Substantial deviations from the approved Tentative Plat, and all Variances from the Village Code not previously approved as part of the Tentative Plat, require a formal amendment to the Tentative Plat prior to approval of the Final Plat:

- a. From which specific aspect of the Tentative Plat is a modification requested? (List)

lots along the south side of Sparrow Lane to become duplex lots instead of larger multi-family lots with several buildings on each lot. All other lots to become individual lots so that no single lot has more than one building on it. a private road connects to Sparrow Lane and serves several of the individual multi-family lots along Roscoe Road. A park lot will be dedicated to the Village.

- b. What type of modification is proposed? (List)

decreasing the zoning intensity along the south side of Sparrow Lane to change from multi-family buildings to duplex buildings. Other multi family to be individual lots with either 3-unit or 4-unit buildings.

- c. Does the proposed modification require approval of a Variance from the standards of the Village Code subdivision regulations?

No.

- d. What specific circumstances have caused the need for the modification?

Per settlement agreement

- e. What specific design/mitigation measures will be used to ensure the Final Plat with the proposed modification is consistent with the overall intensity/density, character, functionality, and quality of the approved Tentative Plat?

Final plat includes a transitional lower density between existing single family and multi family with duplex homes, in accordance with settlement agreement.

Project Memorandum

To: Village of Roscoe

From: Arc Design Resources, Inc.

Date: February 14, 2023 (REV. July 10, 2024)

Re: Hawks Pointe Plat 6 Storm Sewer Sizing

The proposed storm sewer system for Hawks Pointe Plat 6 has been designed to accommodate the 100-yr storm to satisfy the requirement of a 100-yr overland flow route since there are several low points throughout the subdivision with grate inlets to capture rear yard runoff. The 5-yr storm event calculations are included to show that the inlet design meets the Village requirement of streets having a minimum of one 9-foot lane in each direction free of stormwater flowing or ponding. A calculation showing that the swale along the southern property limits can accommodate the 100-yr storm event is also included.

The design software that was used to help in the design of the storm sewer system was Hydra-flow. Hydra-flow was used to calculate the flow rate (Q in cfs) and it was also used to size the storm sewer pipes. Hydra-flow also generated the Hydraulic Grade Line (HGL) into a graphical representation. Included in this report is the following:

- Hydraflow Plan View
- Storm Sewer Inventory Report
- Storm Sewer Summary Report
- Storm Sewer Profiles
- Hydraulic Grade Line Computations
- Hydraflow HGL Computation Procedure

The Hydraflow Plan View sheet shows a graphical representation of the network of storm sewer. The pipes have been assigned numbers and those numbers correspond to the data shown in the other sheets. The Storm Sewer Inventory Report is the basic worksheet for Hydra-flow. This is where all of the known values were input. The known values that were input were the runoff coefficient and the inlet time in minutes. The inlet time was assumed to be 5 or 10 minutes and all minor losses were neglected for these calculations.

The Storm Sewer Summary Report shows all solved values. Hydra-flow has also calculated the HGL upstream and downstream elevations as well as the invert elevations for the storm sewer pipes. The Storm Sewer Profiles show graphically the storm sewer pipe lengths and slopes as well as the HGL. It also shows the amount of cover for each pipe length. The Hydraulic Grade Line Computations sheet shows in more detail the calculation of the HGL and the Hydraflow HGL Computation Procedure outlines the procedure used by Hydra-flow.

5291 Zenith Parkway
Loves Park, IL 61111
815-484-4300 p
815-484-4303 f

South Ditch 100-yr Storm

Channel Report

Item # 5.

Hydraflow Express Extension for Autodesk® Civil 3D® by Autodesk, Inc.

Tuesday, Apr 25 2023

South Ditch 100-yr Storm

Triangular

Side Slopes (z:1) = 3.00, 10.00
Total Depth (ft) = 2.00

Invert Elev (ft) = 826.42
Slope (%) = 0.50
N-Value = 0.150

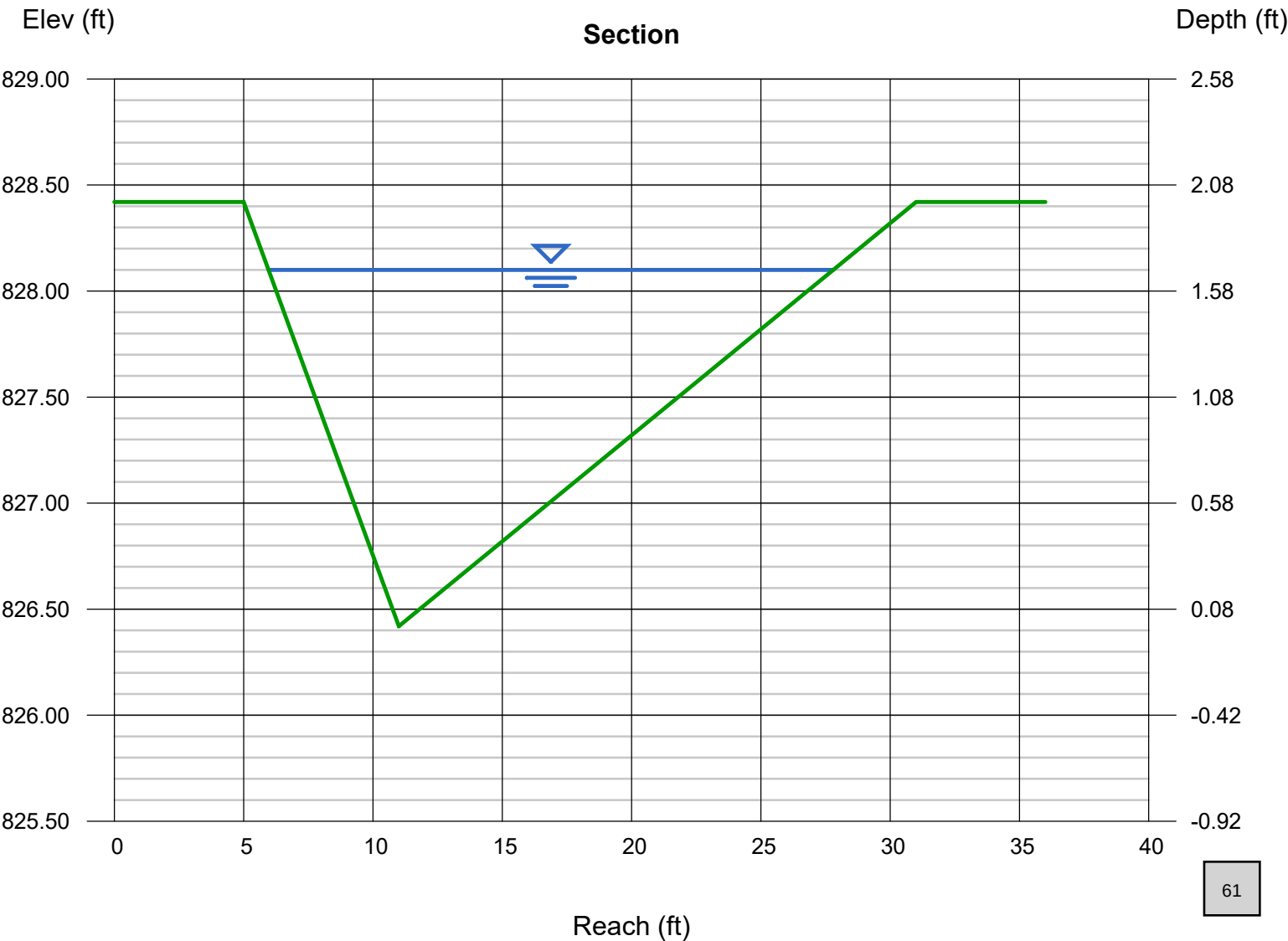
Calculations

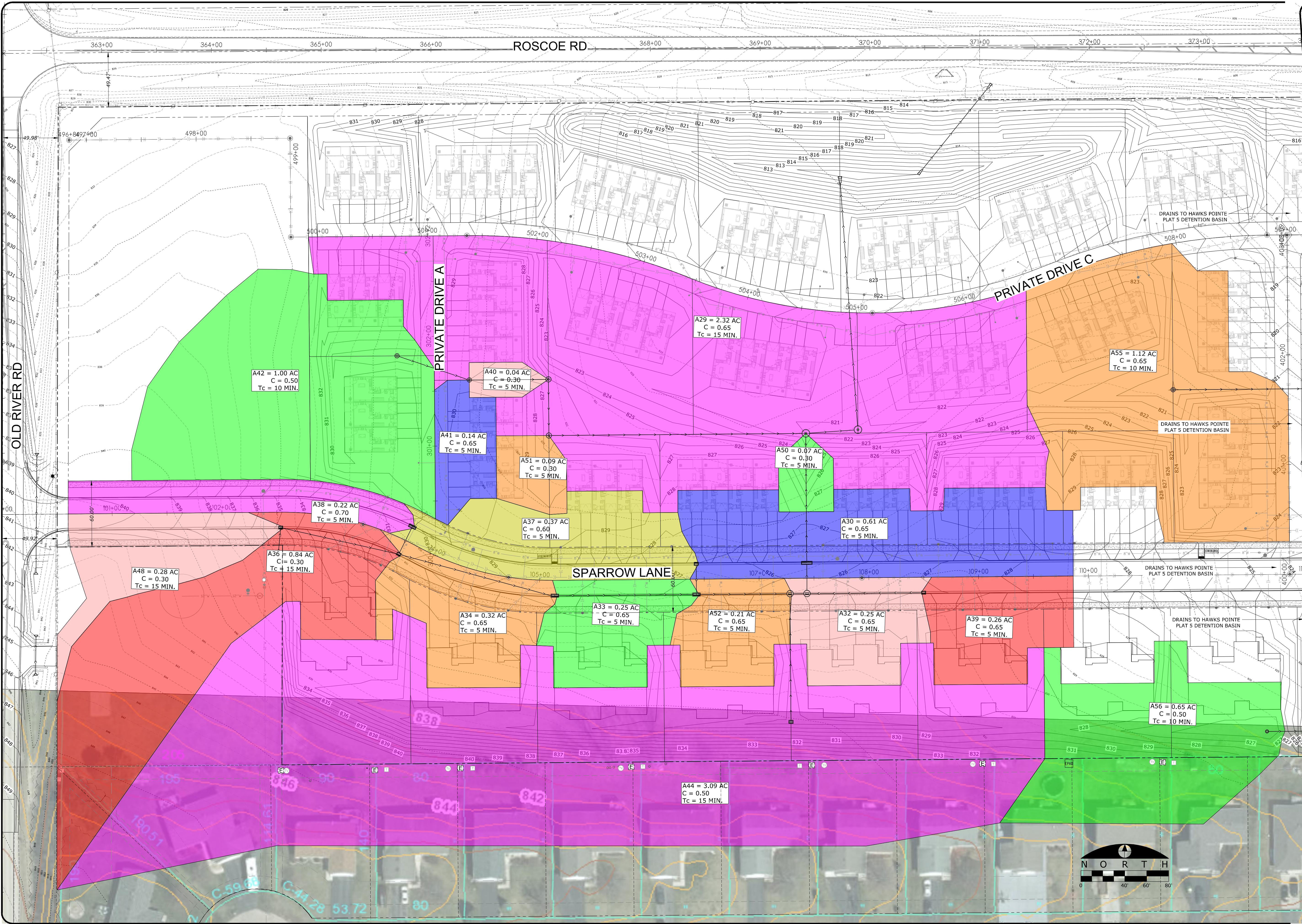
Compute by: Known Q
Known Q (cfs) = 11.18

A = 2.81 AC
C = 0.50
Tc = 15 MIN.
I = 7.96 IN/HR
Q = 11.18 CFS

Highlighted

Depth (ft) = 1.68
Q (cfs) = 11.18
Area (sqft) = 18.35
Velocity (ft/s) = 0.61
Wetted Perim (ft) = 22.20
Crit Depth, Yc (ft) = 0.72
Top Width (ft) = 21.84
EGL (ft) = 1.69





ARC DESIGN
RESOURCES INC.

5281 ZENITH PARKWAY
LOVES PARK, IL 61111
VOICE: (815) 484-4300
FAX: (815) 484-4303
www.arcdesign.com
Illinois Design Firm License No. 184-001334

PROJECT NAME
OWNER'S NAME

**HAWKS POINTE
PLAT 6**

SPARROW LANE
ROSCOE, IL 61073
WINNEBAGO COUNTY

WHITE OAK TRUST
1020 BENBROOK DRIVE
LOVES PARK, IL 61111

CONSULTANTS

ISSUED FOR		DATE
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REVISIONS		DATE
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SHEET TITLE

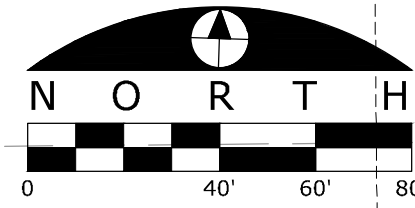
**STORM SEWER
CAPACITY PLAN**

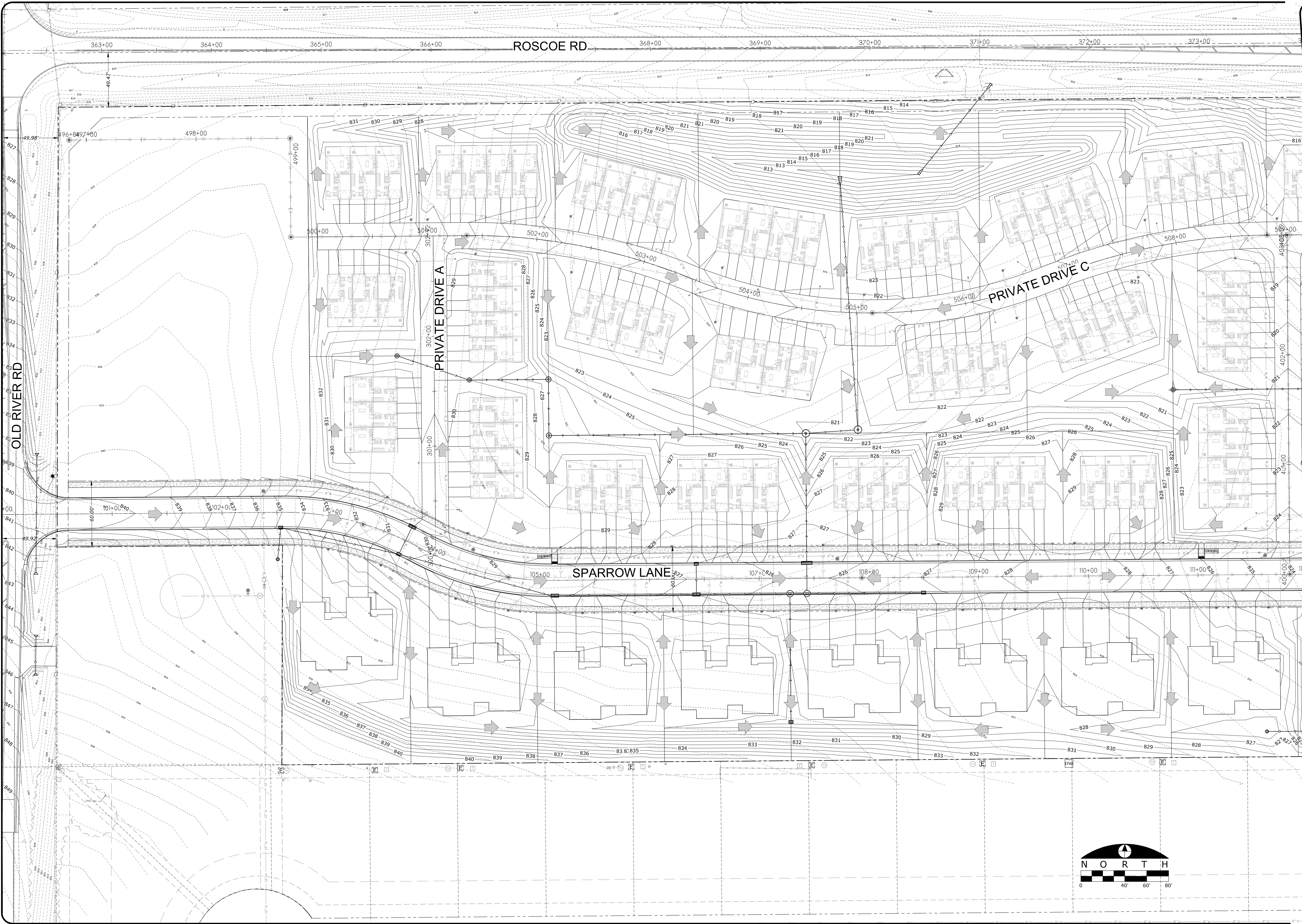
DRAWN	MJH
CHECKED	JSL
PM	JSL

PROJECT NUMBER
SHEET NUMBER

22214

EXHIBIT 1





ARC DESIGN
RESOURCES INC.

5281 ZENITH PARKWAY
LOVES PARK, IL 61111
VOICE: (815) 484-4300
FAX: (815) 484-4303
www.arcdesign.com
Illinois Design Firm License No. 184-001334

PROJECT NAME
OWNER'S NAME

**HAWKS POINTE
PLAT 6**

SPARROW LANE
ROSCOE, IL 61073
WINNEBAGO COUNTY

WHITE OAK TRUST
1020 BENBROOK DRIVE
LOVES PARK, IL 61111

CONSULTANTS

ISSUED FOR		DATE
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SHEET TITLE

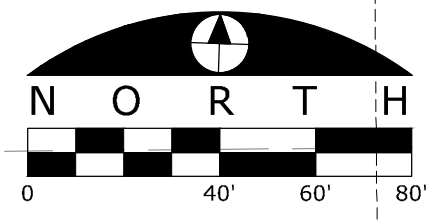
**100-YEAR
OVERLAND FLOW
EXHIBIT**

DRAWN	MJH
CHECKED	JSL
PM	JSL

PROJECT NUMBER
SHEET NUMBER

22214

EXHIBIT 3

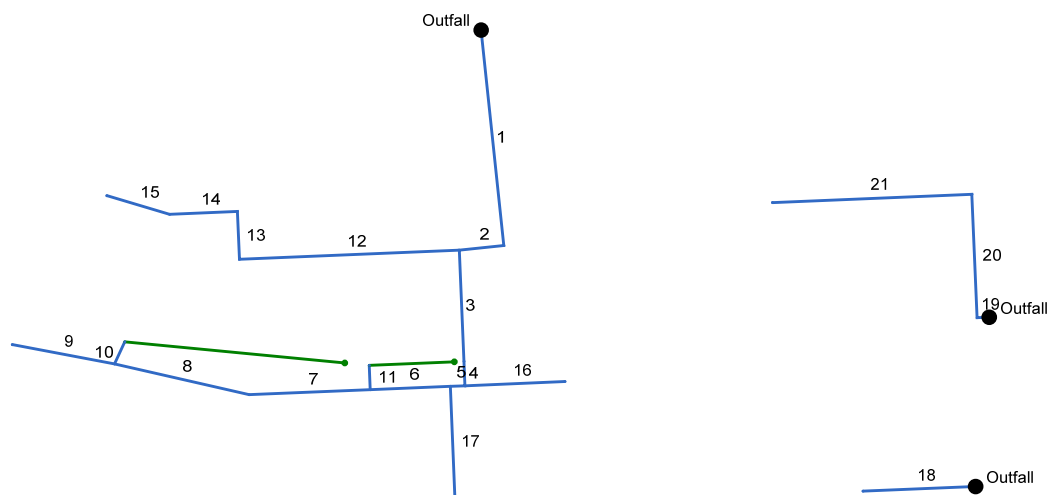


5291 Zenith Parkway
Loves Park, IL 61111
815-484-4300 p
815-484-4303 f

5-Year Storm Calculations

Hydraflow Storm Sewers Extension for Autodesk® Civil 3D® Plan

Item # 5.



Storm Sewer Inventory Report

Item # 5.

Line No.	Alignment				Flow Data				Physical Data								Line ID
	Dnstr Line No.	Line Length (ft)	Defl angle (deg)	Junc Type	Known Q (cfs)	Drng Area (ac)	Runoff Coeff (C)	Inlet Time (min)	Invert El Dn (ft)	Line Slope (%)	Invert El Up (ft)	Line Size (in)	Line Shape	N Value (n)	J-Loss Coeff (K)	Inlet/ Rim El (ft)	
1	End	231.361	84.023	DrGrt	0.00	2.32	0.65	15.0	812.00	1.30	815.00	36	Cir	0.013	1.50	820.55	P29
2	1	47.619	90.000	None	0.00	0.07	0.30	5.0	815.00	1.01	815.48	36	Cir	0.013	1.00	821.00	P50
3	2	119.000	-86.410	Comb	0.00	0.61	0.65	5.0	816.48	3.78	820.98	24	Cir	0.013	0.50	825.69	P30
4	3	26.000	0.000	Comb	0.00	0.25	0.65	5.0	820.98	1.62	821.40	24	Cir	0.013	2.25	825.69	P32
5	4	15.551	90.000	Comb	0.00	0.21	0.65	5.0	821.40	0.19	821.43	24	Cir	0.013	1.50	825.72	P52
6	5	85.160	0.000	Comb	0.00	0.25	0.65	5.0	821.93	1.53	823.23	18	Cir	0.013	1.50	826.63	P33
7	6	129.034	0.000	Comb	0.00	0.32	0.65	5.0	823.23	1.37	825.00	18	Cir	0.013	0.50	828.21	P34
8	7	146.688	15.349	Comb	0.00	0.84	0.30	15.0	825.50	0.98	826.94	12	Cir	0.013	1.50	830.30	P35
9	8	110.755	-2.197	Comb	0.00	0.28	0.30	15.0	827.14	4.21	831.80	12	Cir	0.013	1.00	834.80	P48
10	8	26.000	101.311	Comb	0.00	0.22	0.70	5.0	826.94	0.73	827.13	12	Cir	0.013	1.00	830.30	P38
11	6	26.000	90.000	Comb	0.00	0.37	0.60	5.0	823.73	0.38	823.83	12	Cir	0.013	1.00	826.63	P37
12	2	234.000	3.590	DrGrt	0.00	0.09	0.30	5.0	816.98	1.88	821.37	18	Cir	0.013	1.50	826.37	P51
13	12	51.137	90.000	DrGrt	0.00	0.04	0.30	5.0	821.37	0.98	821.87	18	Cir	0.013	1.50	826.12	P40
14	13	72.100	-90.000	DrGrt	0.00	0.14	0.65	5.0	822.12	1.94	823.52	15	Cir	0.013	0.57	829.00	P41
15	14	69.583	18.980	DrGrt	0.00	1.00	0.50	10.0	823.52	1.01	824.22	15	Cir	0.013	1.00	828.22	P42
16	4	106.282	-90.000	Comb	0.00	0.26	0.65	5.0	822.40	1.70	824.21	12	Cir	0.013	1.00	826.88	P39
17	5	117.793	-90.000	DrGrt	0.00	3.09	0.50	15.0	821.43	0.20	821.67	24	Cir	0.013	1.00	826.42	P44
18	End	119.906	177.646	DrGrt	0.00	0.65	0.50	10.0	819.74	1.88	822.00	12	Cir	0.012	1.00	825.01	P56
19	End	12.985	177.613	MH	0.01	0.00	0.00	0.0	807.80	1.00	807.93	18	Cir	0.013	1.00	819.33	P16
20	19	132.000	90.000	MH	0.01	0.00	0.00	0.0	807.93	1.11	809.39	18	Cir	0.013	1.00	818.80	P54
21	20	212.012	-90.000	DrGrt	0.00	1.12	0.65	10.0	809.39	1.00	811.51	18	Cir	0.013	1.00	818.92	P55
Project File: REVISED HAWKS POINTE PLAT 6 .stm												Number of lines: 21			Date: 7/10/2024		

Structure Report

Struct No.	Structure ID	Junction Type	Rim Elev (ft)	Structure			Line Out			Line In		
				Shape	Length (ft)	Width (ft)	Size (in)	Shape	Invert (ft)	Size (in)	Shape	Invert (ft)
1	D29	DropGrate	820.55	Rect	0.00	0.00	36	Cir	815.00	36	Cir	815.00
2	D50	None	821.00	n/a	n/a	n/a	36	Cir	815.48	24 18	Cir Cir	816.48 816.98
3	D30	Combination	825.69	Rect	0.00	0.00	24	Cir	820.98	24	Cir	820.98
4	D32	Combination	825.69	Rect	0.00	0.00	24	Cir	821.40	24 12	Cir Cir	821.40 822.40
5	D52	Combination	825.72	Rect	0.00	0.00	24	Cir	821.43	18 24	Cir Cir	821.93 821.43
6	D33	Combination	826.63	Rect	0.00	0.00	18	Cir	823.23	18 12	Cir Cir	823.23 823.73
7	D34	Combination	828.21	Rect	0.00	0.00	18	Cir	825.00	12	Cir	825.50
8	D36	Combination	830.30	Rect	0.00	0.00	12	Cir	826.94	12 12	Cir Cir	827.14 826.94
9	D48	Combination	834.80	Rect	0.00	0.00	12	Cir	831.80			
10	D38	Combination	830.30	Rect	0.00	0.00	12	Cir	827.13			
11	D37	Combination	826.63	Rect	0.00	0.00	12	Cir	823.83			
12	D51	DropGrate	826.37	Rect	0.00	0.00	18	Cir	821.37	18	Cir	821.37
13	D40	DropGrate	826.12	Rect	0.00	0.00	18	Cir	821.87	15	Cir	822.12
14	D41	DropGrate	829.00	Rect	0.00	0.00	15	Cir	823.52	15	Cir	823.52
15	D42	DropGrate	828.22	Rect	0.00	0.00	15	Cir	824.22			
16	D39	Combination	826.88	Rect	0.00	0.00	12	Cir	824.21			
17	D44	DropGrate	826.42	Rect	0.00	0.00	24	Cir	821.67			
18	D56	DropGrate	825.01	Rect	0.00	0.00	12	Cir	822.00			
19	D53	Manhole	819.33	Rect	0.00	0.00	18	Cir	807.93	18	Cir	807.93
20	D54	Manhole	818.80	Rect	0.00	0.00	18	Cir	809.39	18	Cir	809.39

Structure Report

Item # 5.

Struct No.	Structure ID	Junction Type	Rim Elev (ft)	Structure			Line Out			Line In		
				Shape	Length (ft)	Width (ft)	Size (in)	Shape	Invert (ft)	Size (in)	Shape	Invert (ft)
21	D55	DropGrate	818.92	Rect	0.00	0.00	18	Cir	811.51			

Storm Sewer Summary Report

Item # 5.

Line No.	Line ID	Flow rate (cfs)	Line Size (in)	Line shape	Line length (ft)	Invert EL Dn (ft)	Invert EL Up (ft)	Line Slope (%)	HGL Down (ft)	HGL Up (ft)	Minor loss (ft)	HGL Junct (ft)	Dns Line No.	Type
1	P29	20.59	36	Cir	231.361	812.00	815.00	1.297	813.07	816.46	0.85	816.46	End	DropGrate
2	P50	15.21	36	Cir	47.619	815.00	815.48	1.008	816.46	816.72	n/a	816.72 j	1	None
3	P30	12.95	24	Cir	119.000	816.48	820.98	3.782	817.22	822.27	n/a	822.27	2	Combination
4	P32	11.51	24	Cir	26.000	820.98	821.40	1.616	822.27	822.62	n/a	822.62 j	3	Combination
5	P52	10.29	24	Cir	15.551	821.40	821.43	0.193	823.11	823.14	0.30	823.44	4	Combination
6	P33	4.08	18	Cir	85.160	821.93	823.23	1.527	823.44	824.00	n/a	824.00 j	5	Combination
7	P34	2.72	18	Cir	129.034	823.23	825.00	1.372	824.00	825.62	n/a	825.62 j	6	Combination
8	P35	1.95	12	Cir	146.688	825.50	826.94	0.982	826.03	827.54	0.37	827.54	7	Combination
9	P48	0.37	12	Cir	110.755	827.14	831.80	4.207	827.54	832.05	n/a	832.05 j	8	Combination
10	P38	0.94	12	Cir	26.000	826.94	827.13	0.731	827.54	827.54	n/a	827.54 j	8	Combination
11	P37	1.36	12	Cir	26.000	823.73	823.83	0.385	824.30	824.40	0.14	824.53	6	Combination
12	P51	3.07	18	Cir	234.000	816.98	821.37	1.876	817.45	822.04	0.38	822.04	2	DropGrate
13	P40	2.99	18	Cir	51.137	821.37	821.87	0.978	822.04	822.53	n/a	822.53 j	12	DropGrate
14	P41	2.97	15	Cir	72.100	822.12	823.52	1.942	822.61	824.21	0.16	824.21	13	DropGrate
15	P42	2.56	15	Cir	69.583	823.52	824.22	1.006	824.21	824.86	n/a	824.86 j	14	DropGrate
16	P39	1.03	12	Cir	106.282	822.40	824.21	1.703	822.72	824.64	0.16	824.64	4	Combination
17	P44	6.81	24	Cir	117.793	821.43	821.67	0.204	823.44	823.54	0.08	823.62	5	DropGrate
18	P56	1.66	12	Cir	119.906	819.74	822.00	1.885	820.13	822.55	0.22	822.55	End	DropGrate
19	P16	3.44	18	Cir	12.985	807.80	807.93	1.001	808.39	808.64	n/a	808.64	End	Manhole
20	P54	3.55	18	Cir	132.000	807.93	809.39	1.106	808.64	810.11	n/a	810.11	19	Manhole
21	P55	3.73	18	Cir	212.012	809.39	811.51	1.000	810.11	812.25	n/a	812.25	20	DropGrate

Project File: REVISED HAWKS POINTE PLAT 6 .stm

Number of lines: 21

Run Date: 7/10/2024

NOTES: Return period = 5 Yrs. ; j - Line contains hyd. jump.

Inlet Report

Item # 5.

Line No	Inlet ID	Q = CIA (cfs)	Q carry (cfs)	Q capt (cfs)	Q Byp (cfs)	Junc Type	Curb Inlet		Grate Inlet			Gutter							Inlet			Byp Line No
							Ht (in)	L (ft)	Area (sqft)	L (ft)	W (ft)	So (ft/ft)	W (ft)	Sw (ft/ft)	Sx (ft/ft)	n	Depth (ft)	Spread (ft)	Depth (ft)	Spread (ft)	Depr (in)	
1	D29	6.65	0.00	6.65	0.00	DrGrt	0.0	0.00	2.00	2.00	2.00	Sag	0.10	0.100	0.100	0.013	0.42	10.50	0.42	10.50	0.0	Off
2	D50	0.13	0.00	0.00	0.13	None	0.0	0.83	0.00	0.83	0.83	0.000	0.00	0.000	0.000	0.000	0.00	0.00	0.00	0.00	0.0	Off
3	D30	2.43	0.51	2.93	0.00	Comb	4.0	9.00	6.00	9.00	1.50	Sag	1.50	0.060	0.020	0.013	0.23	8.65	0.23	8.65	0.0	Off
4	D32	0.99	0.29	1.29	0.00	Comb	4.0	3.00	2.00	3.00	1.50	Sag	1.50	0.060	0.020	0.013	0.22	7.87	0.22	7.87	0.0	Off
5	D52	0.83	0.23	0.77	0.29	Comb	4.0	3.00	0.00	3.00	1.50	0.010	1.50	0.060	0.020	0.012	0.18	6.02	0.12	3.06	0.0	4
6	D33	0.99	0.32	1.09	0.23	Comb	4.0	6.00	0.00	6.00	1.50	0.010	1.50	0.060	0.020	0.012	0.19	6.61	0.11	2.55	0.0	5
7	D34	1.27	0.33	1.29	0.32	Comb	4.0	6.00	0.00	6.00	1.50	0.010	1.50	0.060	0.020	0.012	0.20	7.22	0.12	3.21	0.0	6
8	D36	1.11	0.03	0.81	0.33	Comb	4.0	3.00	0.00	3.00	1.50	0.010	1.50	0.060	0.020	0.012	0.18	6.22	0.13	3.31	0.0	7
9	D48	0.37	0.00	0.34	0.03	Comb	4.0	3.00	0.00	3.00	1.50	0.010	1.50	0.060	0.020	0.012	0.13	3.53	0.05	0.89	0.0	8
10	D38	0.94	0.00	0.82	0.12	Comb	4.0	6.00	0.00	6.00	1.50	0.010	1.50	0.060	0.020	0.012	0.17	5.70	0.09	1.49	0.0	11
11	D37	1.36	0.12	0.98	0.51	Comb	4.0	3.00	0.00	3.00	1.50	0.010	1.50	0.060	0.020	0.012	0.20	6.98	0.14	4.20	0.0	3
12	D51	0.17	0.00	0.06	0.10	DrGrt	0.0	0.00	0.00	0.83	0.83	0.040	1.50	0.060	0.010	0.013	0.04	9.70	0.04	9.70	0.0	Off
13	D40	0.07	0.00	0.03	0.04	DrGrt	0.0	0.00	0.00	0.83	0.83	0.040	1.50	0.060	0.010	0.013	0.03	7.70	0.03	7.70	0.0	Off
14	D41	0.56	0.00	0.17	0.38	DrGrt	0.0	0.00	0.00	0.83	0.83	0.040	1.50	0.060	0.010	0.013	0.07	15.70	0.07	15.70	0.0	Off
15	D42	2.56	0.00	2.56	0.00	DrGrt	0.0	0.00	2.00	2.00	2.00	Sag	0.10	0.100	0.100	0.013	0.22	6.50	0.22	6.50	0.0	Off
16	D39	1.03	0.00	0.75	0.29	Comb	4.0	3.00	0.00	3.00	1.50	0.010	1.50	0.060	0.020	0.013	0.18	6.17	0.12	3.17	0.0	Off
17	D44	6.81	0.00	6.81	0.00	DrGrt	0.0	0.00	2.00	2.00	2.00	Sag	0.10	0.100	0.100	0.013	0.43	10.63	0.43	10.63	0.0	Off
18	D56	1.66	0.00	1.66	0.00	DrGrt	0.0	0.00	2.00	2.00	2.00	Sag	0.10	0.100	0.100	0.013	0.17	5.37	0.17	5.37	0.0	Off
19	D53	0.01*	0.00	0.00	0.01	MH	0.0	0.00	0.00	0.00	0.00	Sag	0.00	0.000	0.000	0.013	0.00	0.00	0.00	0.00	0.0	Off
20	D54	0.01*	0.00	0.00	0.01	MH	0.0	0.00	0.00	0.00	0.00	Sag	0.00	0.000	0.000	0.013	0.00	0.00	0.00	0.00	0.0	Off
21	D55	3.73	0.00	3.73	0.00	DrGrt	0.0	0.00	2.00	2.00	2.00	Sag	0.10	0.100	0.100	0.013	0.29	7.78	0.29	7.78	0.0	Off

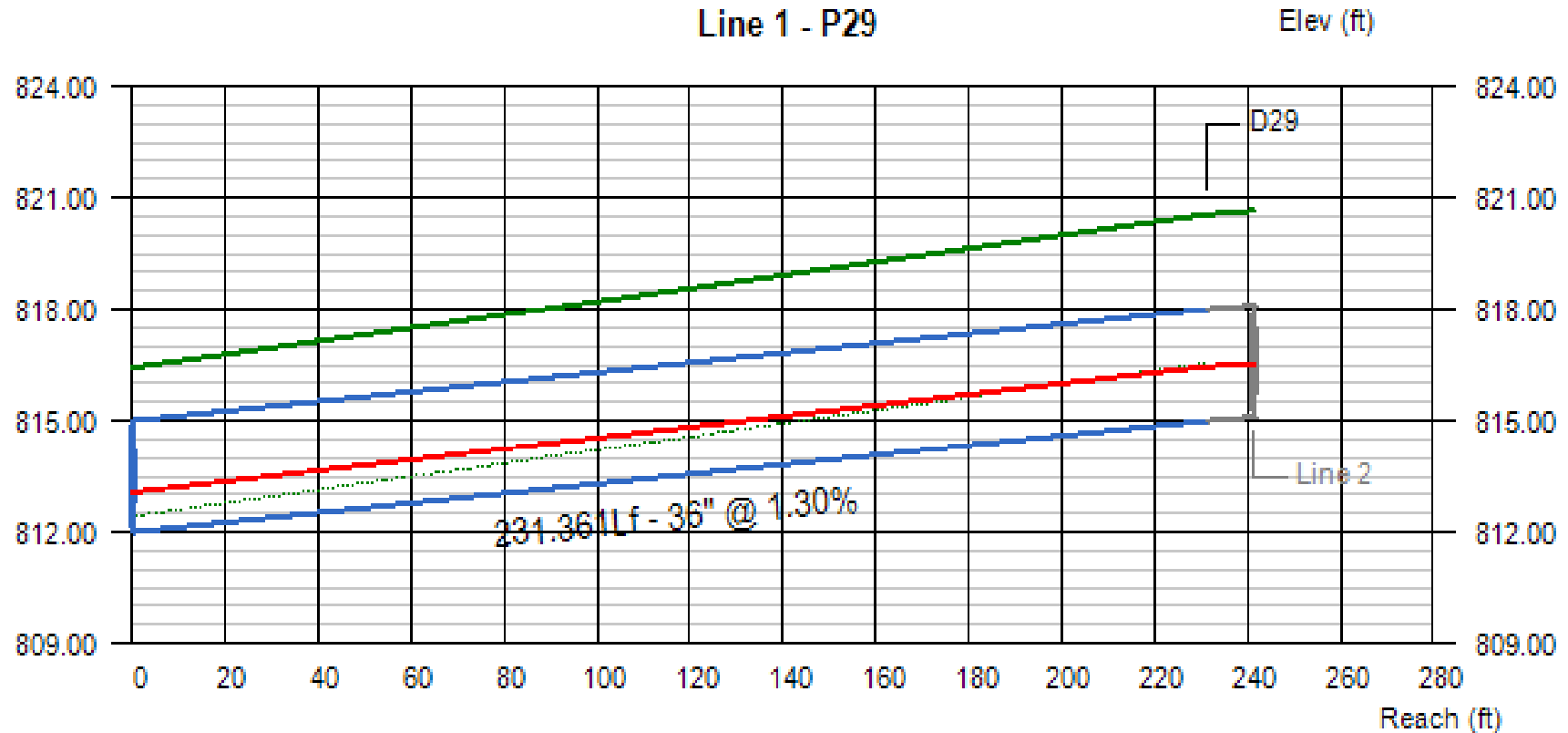
Project File: REVISED HAWKS POINTE PLAT 6 .stm

Number of lines: 21

Run Date: 7/10/2024

NOTES: Inlet N-Values = 0.016; Intensity = 134.14 / (Inlet time + 19.70) ^ 0.96; Return period = 5 Yrs. ; * Indicates Known Q added. All curb inlets are throat.

Line Profile (Line 1) - P29



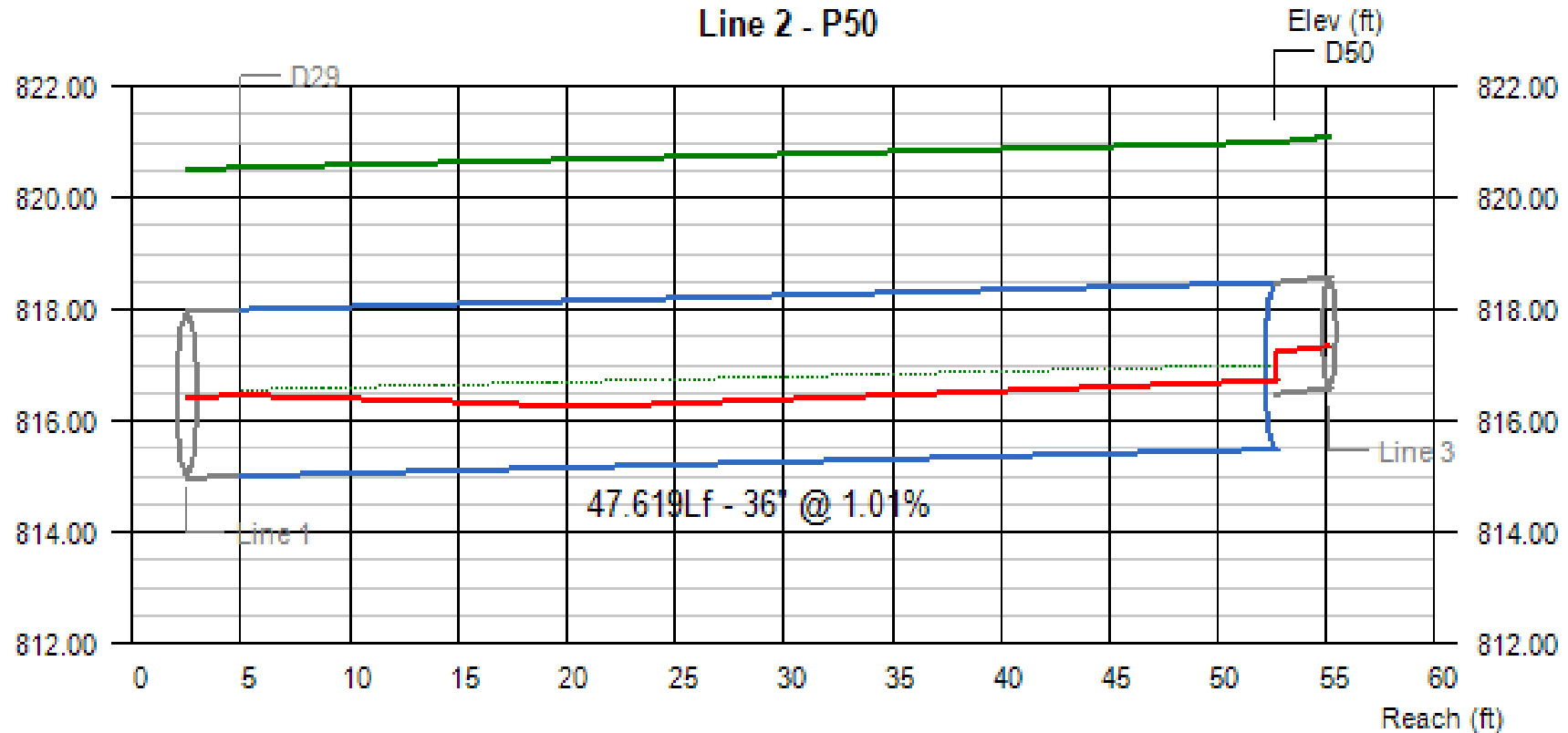
Line #	Q (cfs)	Invert Elevation		Depth of Flow			Hydraulic Grade Line			Velocity		Cover	
		Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Hw (ft)	Dn (ft)	Up (ft)	Jnct (ft)	Dn (ft/s)	Up (ft/s)	Dn (ft)	Up (ft)
1	20.59	812.00	815.00	1.07	1.46	1.46	813.07	816.46	816.46	9.13	6.05	1.42	2.55

Project File:

No. Lines: 21

Run Date: 7/10/202

Line Profile (Line 2) - P50



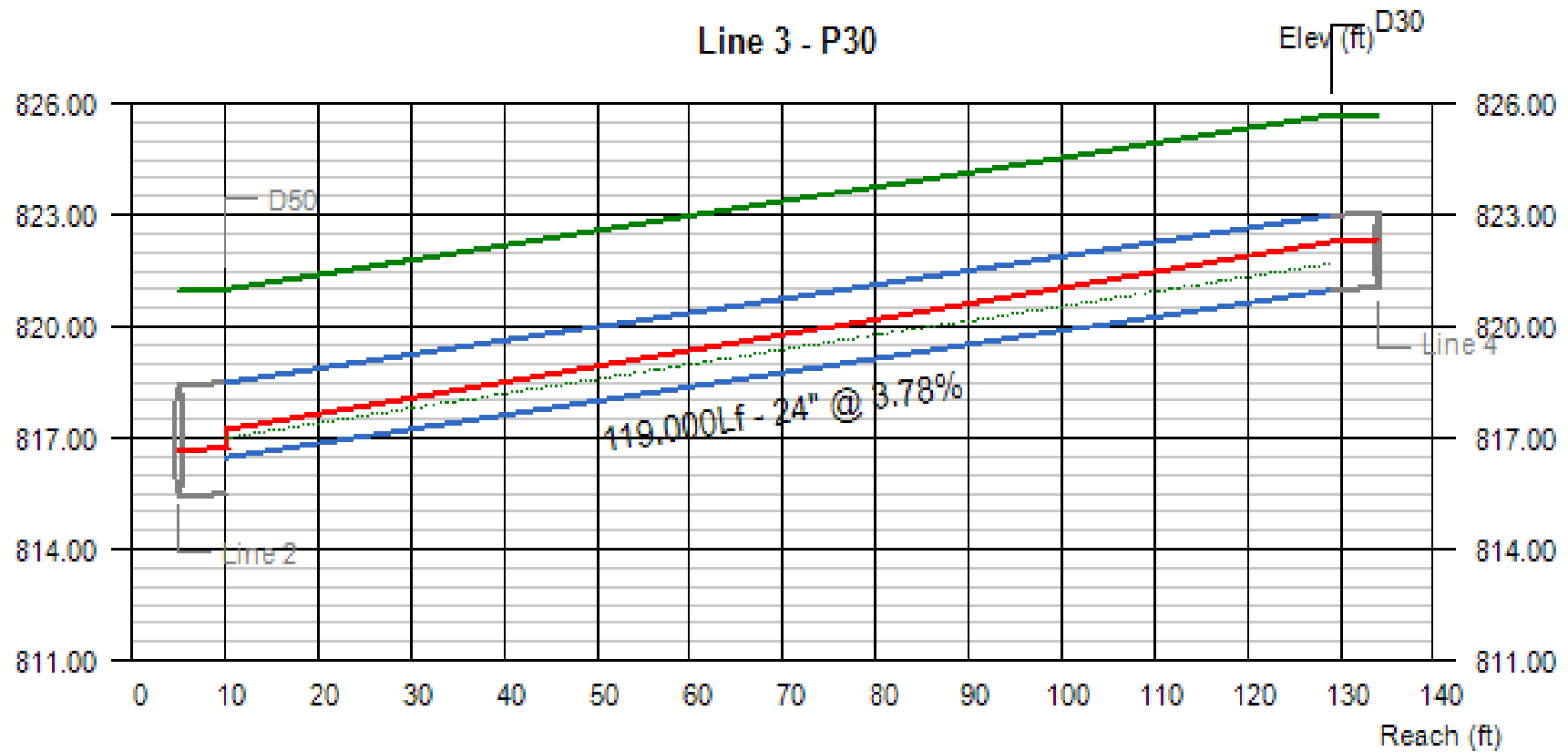
Line #	Q (cfs)	Invert Elevation		Depth of Flow			Hydraulic Grade Line			Velocity		Cover	
		Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Hw (ft)	Dn (ft)	Up (ft)	Jnct (ft)	Dn (ft/s)	Up (ft/s)	Dn (ft)	Up (ft)
2	15.21	815.00	815.48	1.46	1.24	1.24	816.46	816.72 j	816.72	4.47	5.50	2.55	2.52

Project File:

No. Lines: 21

Run Date: 7/10/202

Line Profile (Line 3) - P30



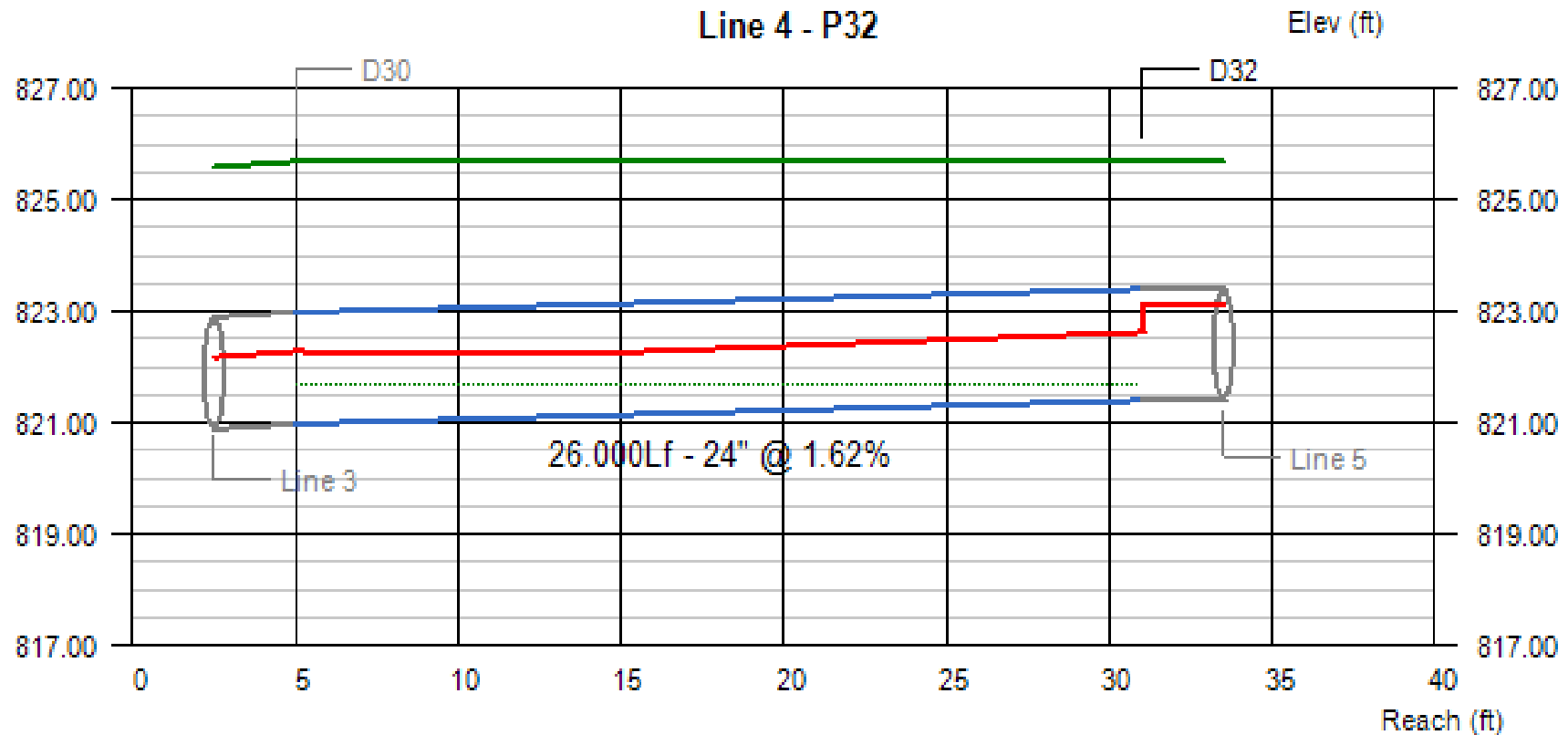
Line #	Q (cfs)	Invert Elevation		Depth of Flow			Hydraulic Grade Line			Velocity		Cover	
		Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Hw (ft)	Dn (ft)	Up (ft)	Jnct (ft)	Dn (ft/s)	Up (ft/s)	Dn (ft)	Up (ft)
3	12.95	816.48	820.98	0.74	1.29	1.29	817.22	822.27	822.27	12.16	6.03	2.52	2.71

Project File:

No. Lines: 21

Run Date: 7/10/2024

Line Profile (Line 4) - P32



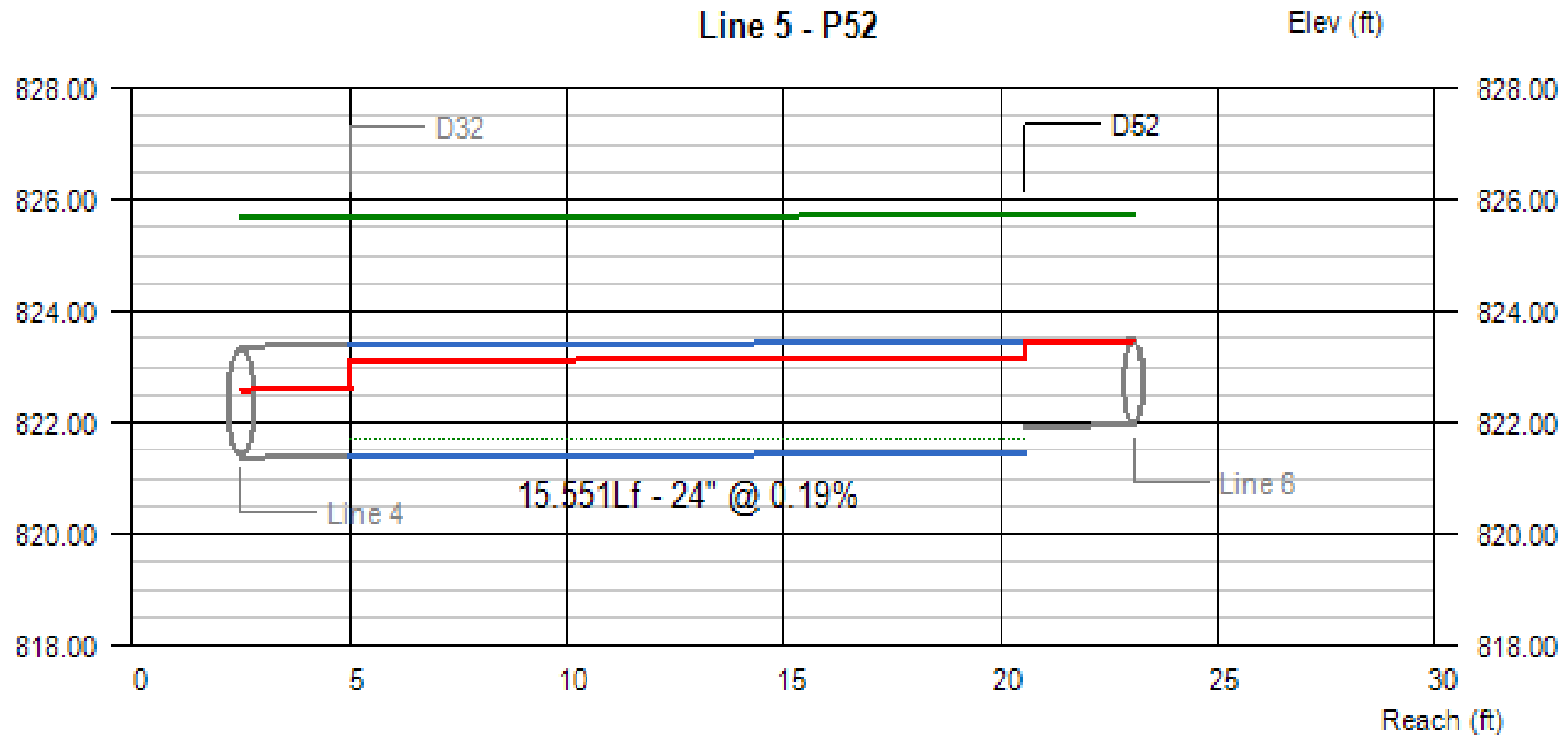
Line #	Q (cfs)	Invert Elevation		Depth of Flow			Hydraulic Grade Line			Velocity		Cover	
		Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Hw (ft)	Dn (ft)	Up (ft)	Jnct (ft)	Dn (ft/s)	Up (ft/s)	Dn (ft)	Up (ft)
4	11.51	820.98	821.40	1.29	1.22	1.22	822.27	822.62 j	822.62	5.36	5.75	2.71	2.29

Project File:

No. Lines: 21

Run Date: 7/10/2024

Line Profile (Line 5) - P52



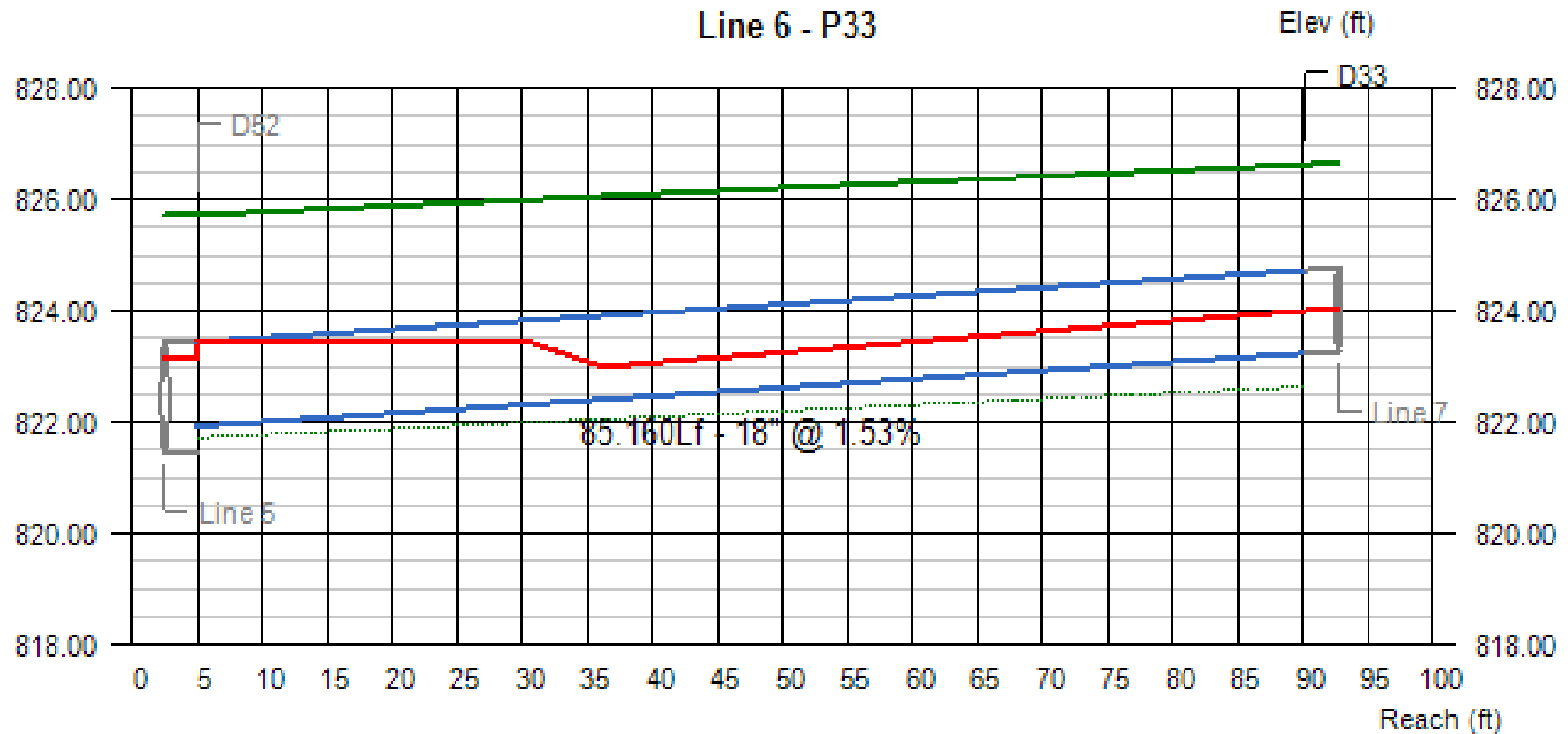
Line #	Q (cfs)	Invert Elevation		Depth of Flow			Hydraulic Grade Line			Velocity		Cover	
		Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Hw (ft)	Dn (ft)	Up (ft)	Jnct (ft)	Dn (ft/s)	Up (ft/s)	Dn (ft)	Up (ft)
5	10.29	821.40	821.43	1.71	1.71	2.01	823.11	823.14	823.44	3.59	3.59	2.29	2.29

Project File:

No. Lines: 21

Run Date: 7/10/202

Line Profile (Line 6) - P33



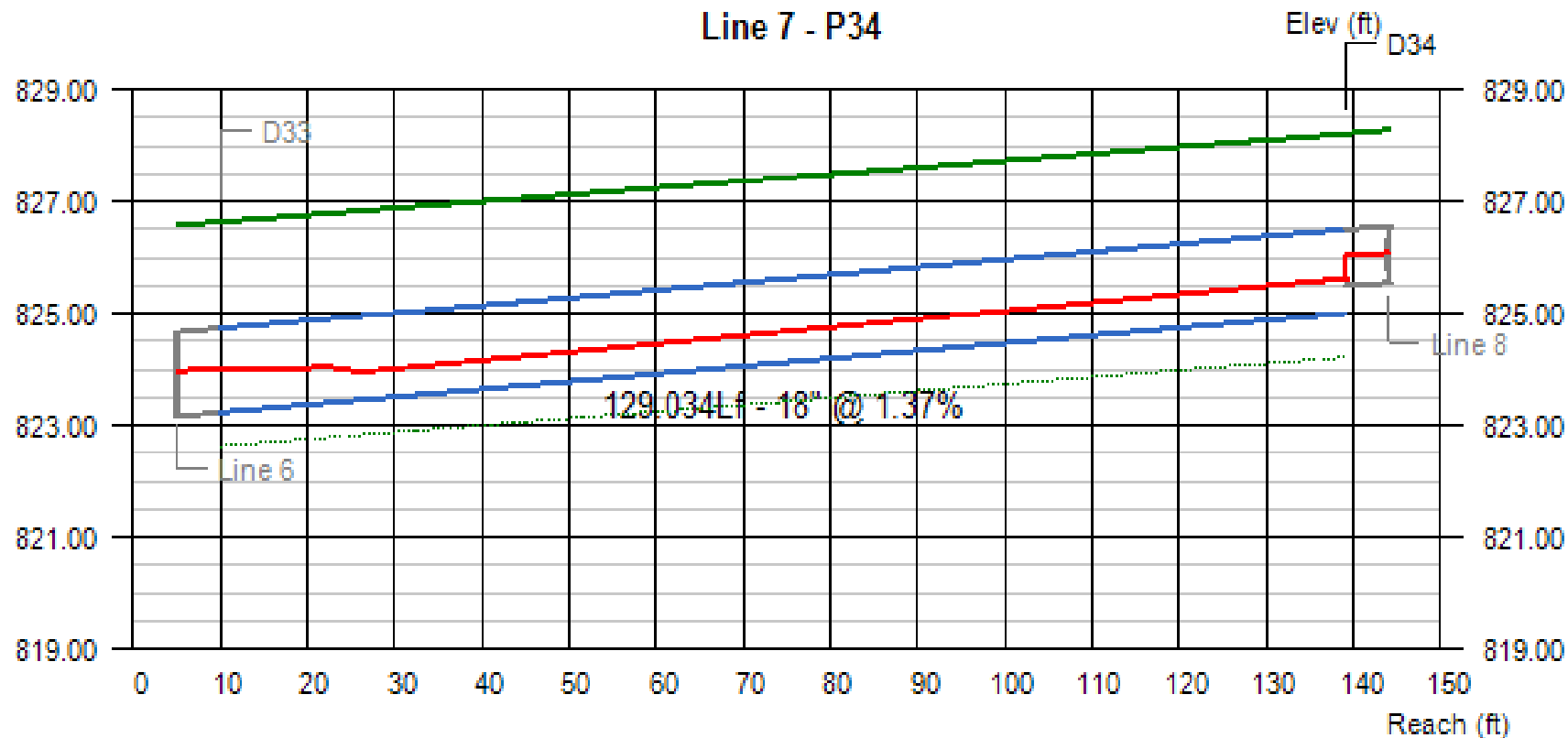
Line #	Q (cfs)	Invert Elevation		Depth of Flow			Hydraulic Grade Line			Velocity		Cover	
		Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Hw (ft)	Dn (ft)	Up (ft)	Jnct (ft)	Dn (ft/s)	Up (ft/s)	Dn (ft)	Up (ft)
6	4.08	821.93	823.23	1.50	0.77	0.77	823.44	824.00 j	824.00	2.31	4.45	2.29	1.90

Project File:

No. Lines: 21

Run Date: 7/10/202

Line Profile (Line 7) - P34



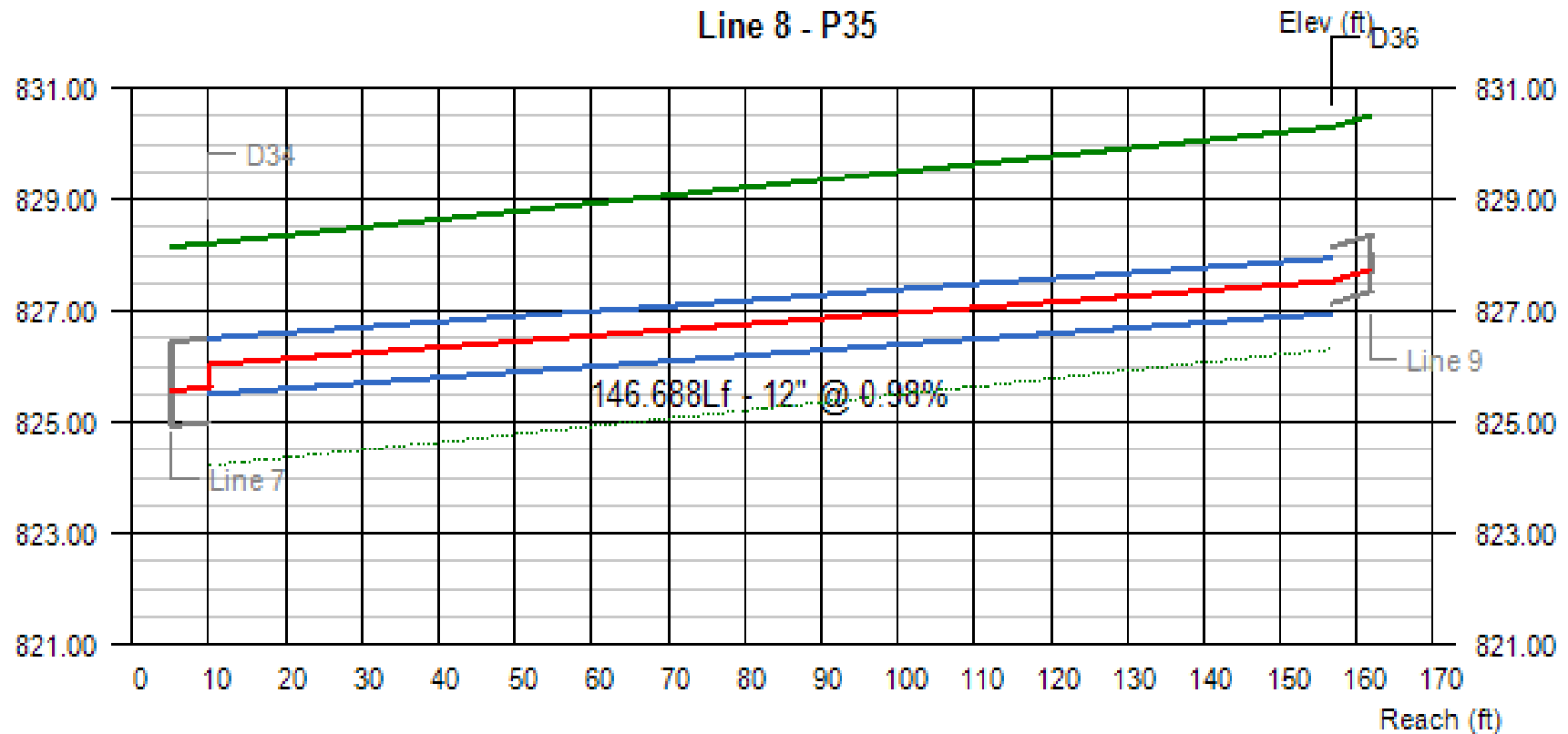
Line #	Q (cfs)	Invert Elevation		Depth of Flow			Hydraulic Grade Line			Velocity		Cover	
		Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Hw (ft)	Dn (ft)	Up (ft)	Jnct (ft)	Dn (ft/s)	Up (ft/s)	Dn (ft)	Up (ft)
7	2.72	823.23	825.00	0.77	0.62	0.62	824.00	825.62 j	825.62	2.96	3.90	1.90	1.71

Project File:

No. Lines: 21

Run Date: 7/10/202

Line Profile (Line 8) - P35



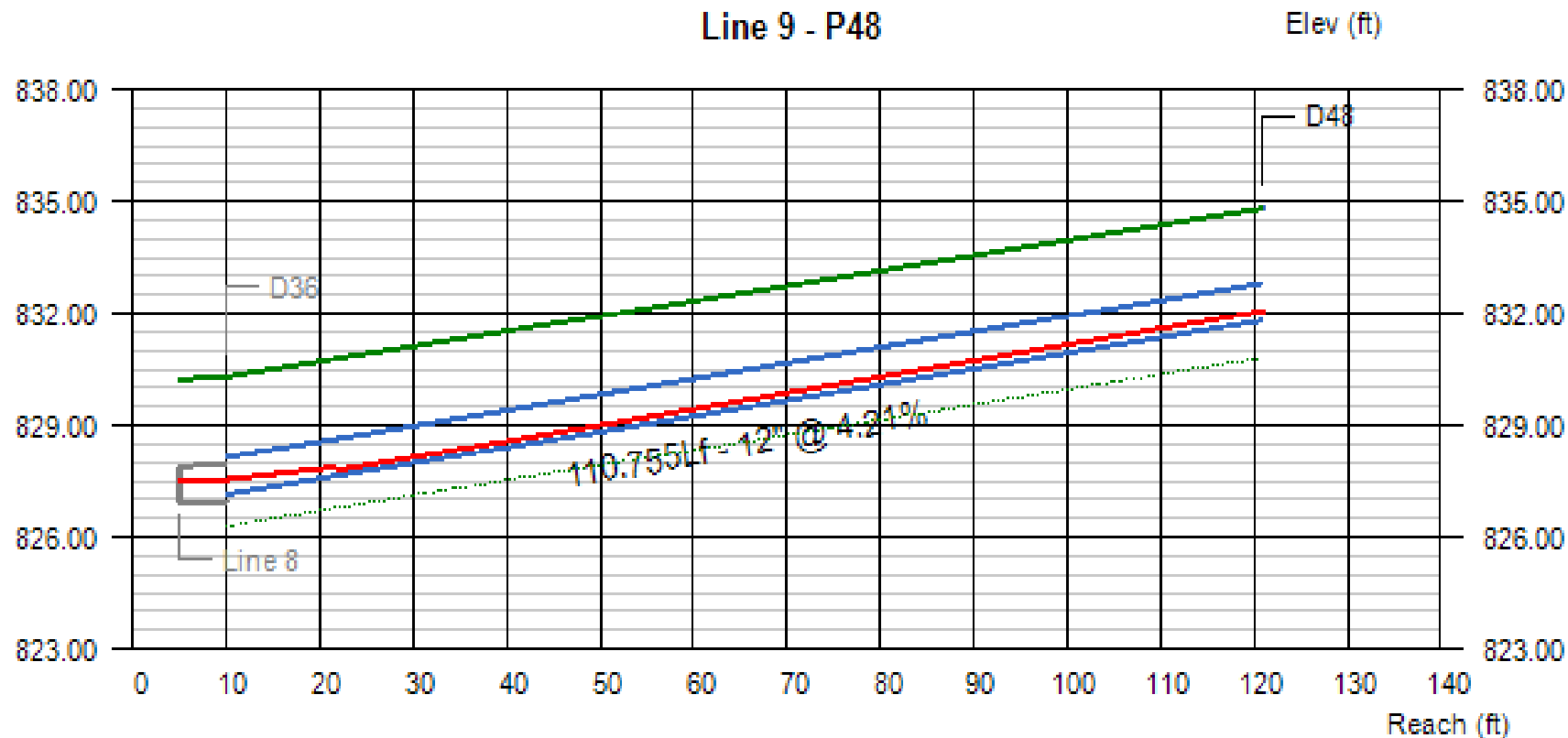
Line #	Q (cfs)	Invert Elevation		Depth of Flow			Hydraulic Grade Line			Velocity		Cover	
		Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Hw (ft)	Dn (ft)	Up (ft)	Jnct (ft)	Dn (ft/s)	Up (ft/s)	Dn (ft)	Up (ft)
8	1.95	825.50	826.94	0.53	0.60	0.60	826.03	827.54	827.54	4.60	4.00	1.71	2.36

Project File:

No. Lines: 21

Run Date: 7/10/202

Line Profile (Line 9) - P48



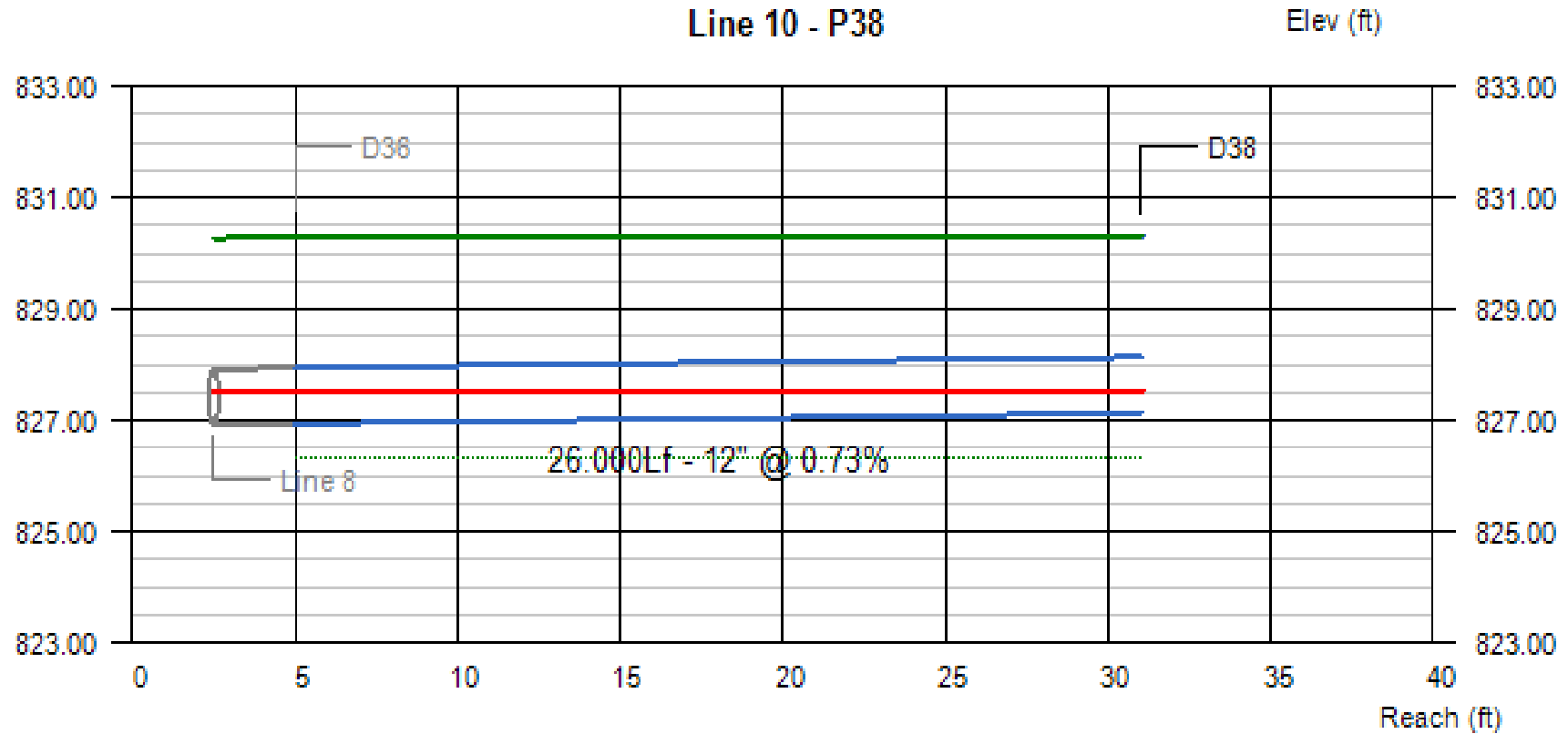
Line #	Q (cfs)	Invert Elevation		Depth of Flow			Hydraulic Grade Line			Velocity		Cover	
		Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Hw (ft)	Dn (ft)	Up (ft)	Jnct (ft)	Dn (ft/s)	Up (ft/s)	Dn (ft)	Up (ft)
9	0.37	827.14	831.80	0.40	0.25	0.25	827.54	832.05 j	832.05	1.28	2.40	2.16	2.00

Project File:

No. Lines: 21

Run Date: 7/10/202

Line Profile (Line 10) - P38



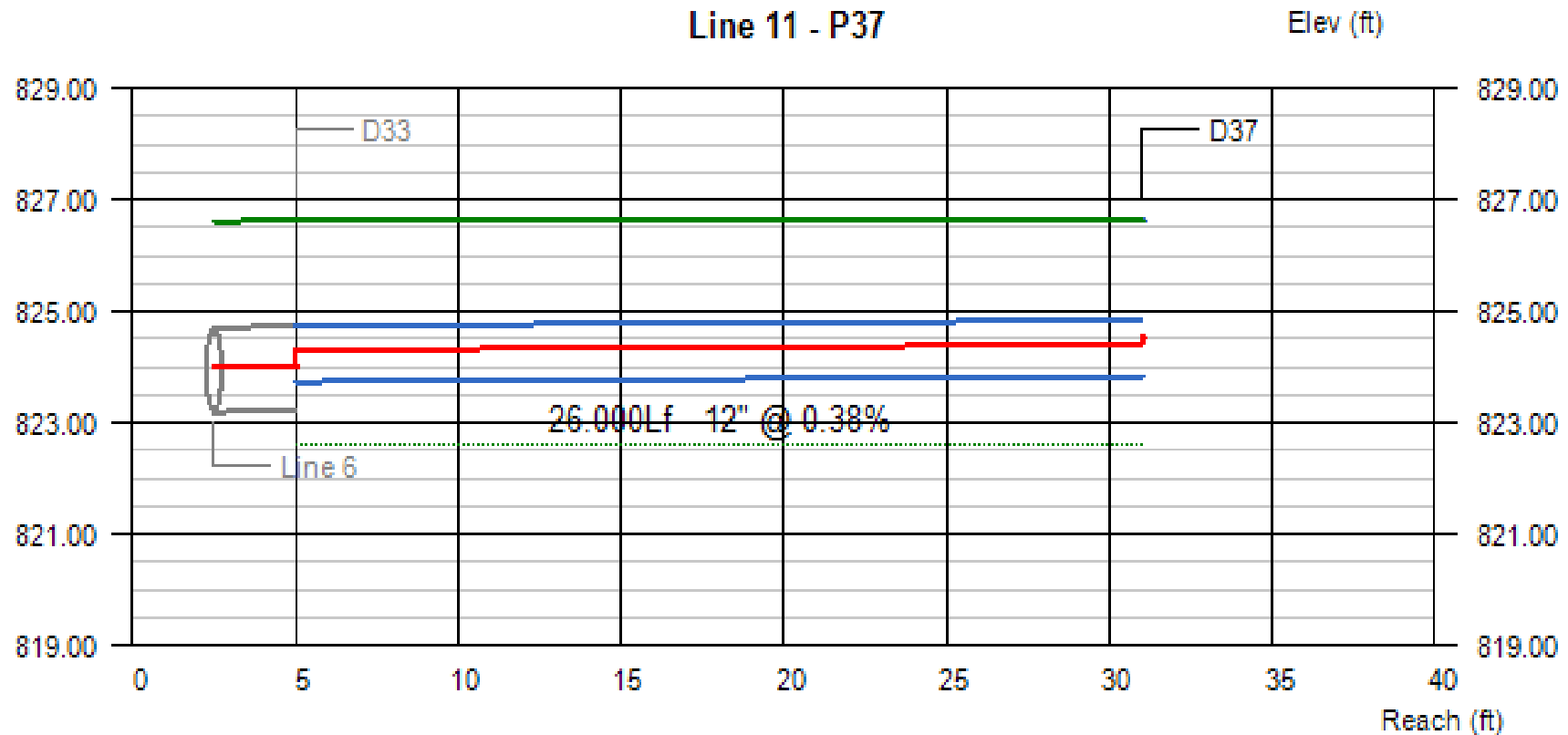
Line #	Q (cfs)	Invert Elevation		Depth of Flow			Hydraulic Grade Line			Velocity		Cover	
		Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Hw (ft)	Dn (ft)	Up (ft)	Jnct (ft)	Dn (ft/s)	Up (ft/s)	Dn (ft)	Up (ft)
10	0.94	826.94	827.13	0.60	0.41	0.41	827.54	827.54 j	827.54	1.93	3.14	2.36	2.17

Project File:

No. Lines: 21

Run Date: 7/10/2024

Line Profile (Line 11) - P37



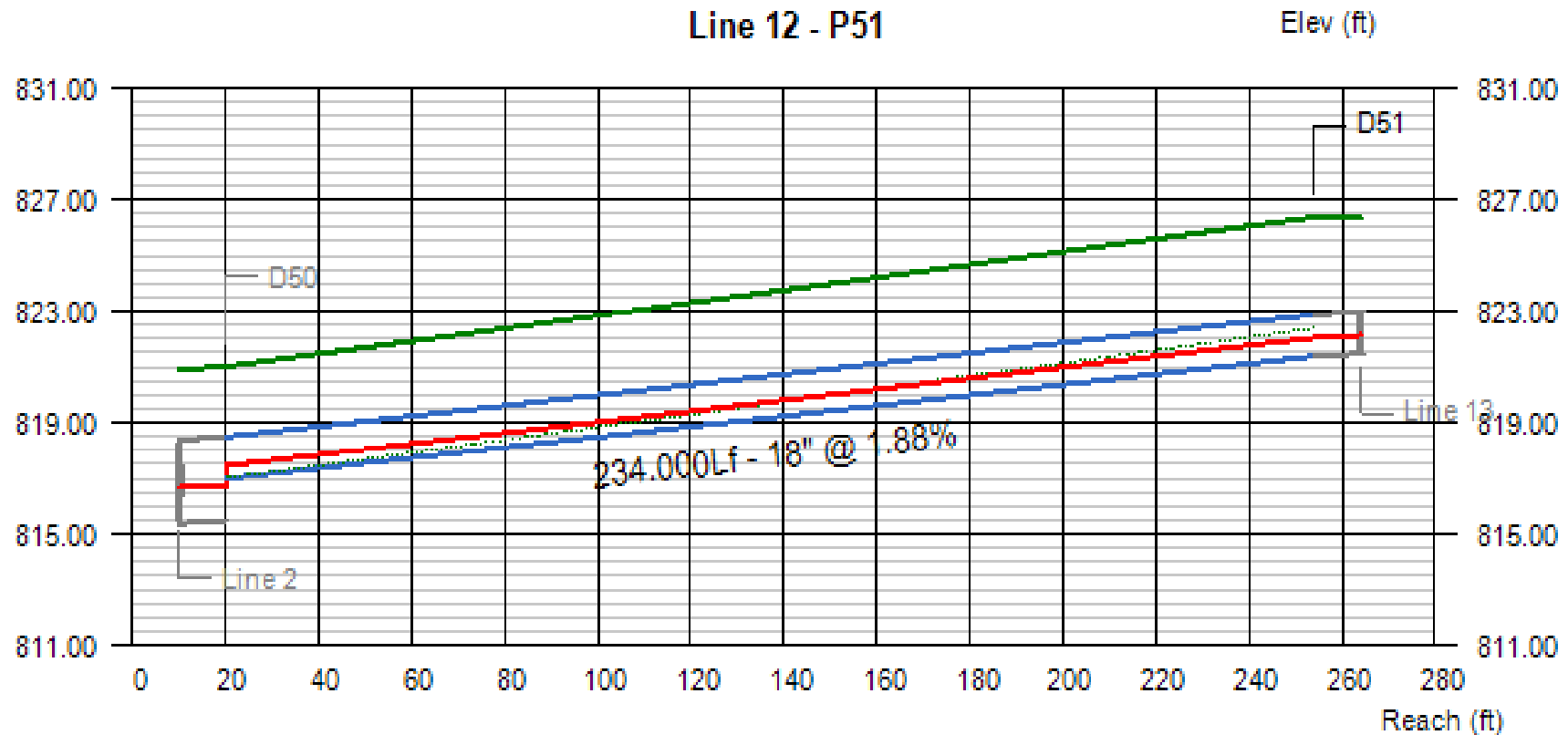
Line #	Q (cfs)	Invert Elevation		Depth of Flow			Hydraulic Grade Line			Velocity		Cover	
		Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Hw (ft)	Dn (ft)	Up (ft)	Jnct (ft)	Dn (ft/s)	Up (ft/s)	Dn (ft)	Up (ft)
11	1.36	823.73	823.83	0.57	0.57	0.70	824.30	824.40	824.53	2.96	2.95	1.90	1.80

Project File:

No. Lines: 21

Run Date: 7/10/2024

Line Profile (Line 12) - P51



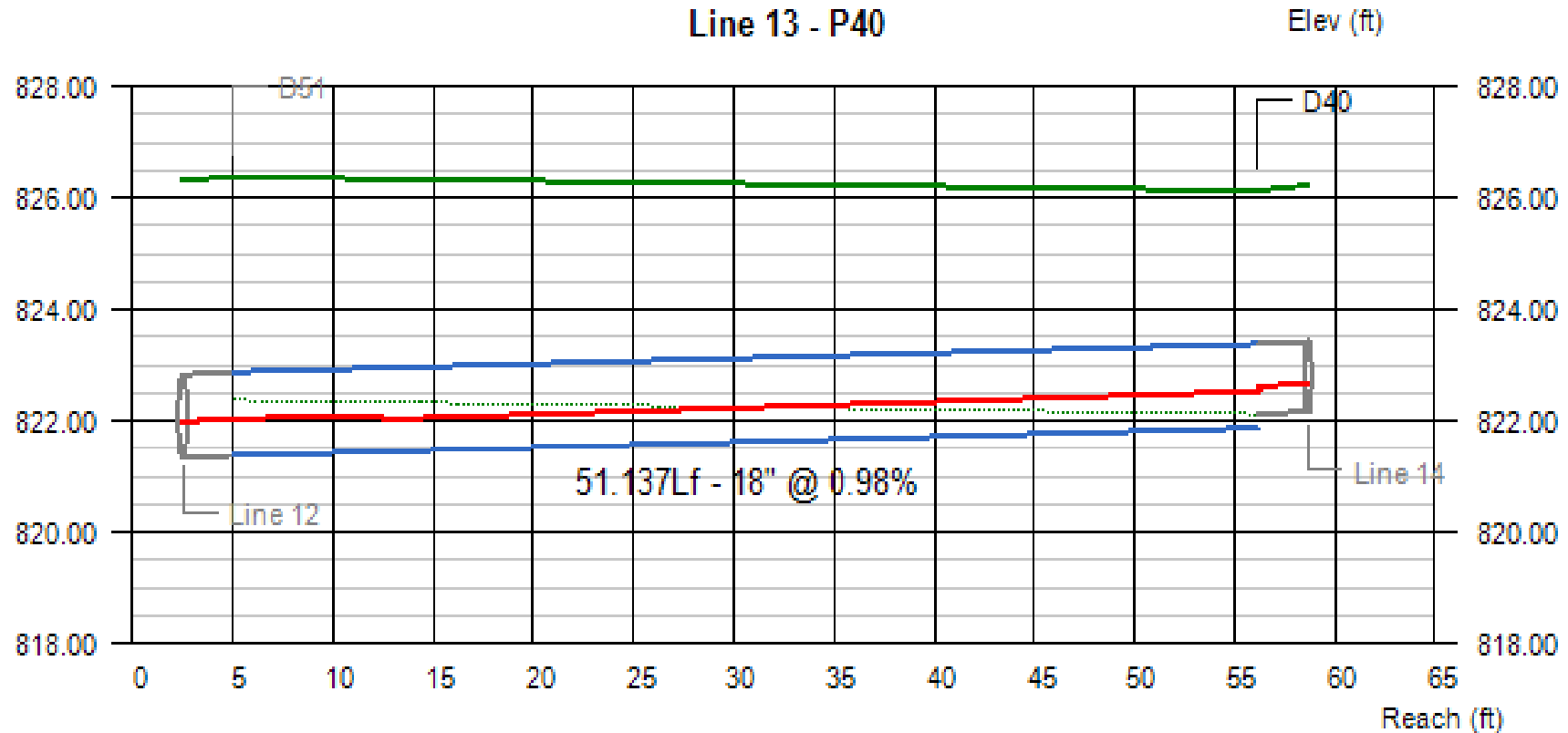
Line #	Q (cfs)	Invert Elevation		Depth of Flow			Hydraulic Grade Line			Velocity		Cover	
		Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Hw (ft)	Dn (ft)	Up (ft)	Jnct (ft)	Dn (ft/s)	Up (ft/s)	Dn (ft)	Up (ft)
12	3.07	816.98	821.37	0.47	0.67	0.67	817.45	822.04	822.04	6.47	4.05	2.52	3.50

Project File:

No. Lines: 21

Run Date: 7/10/202

Line Profile (Line 13) - P40



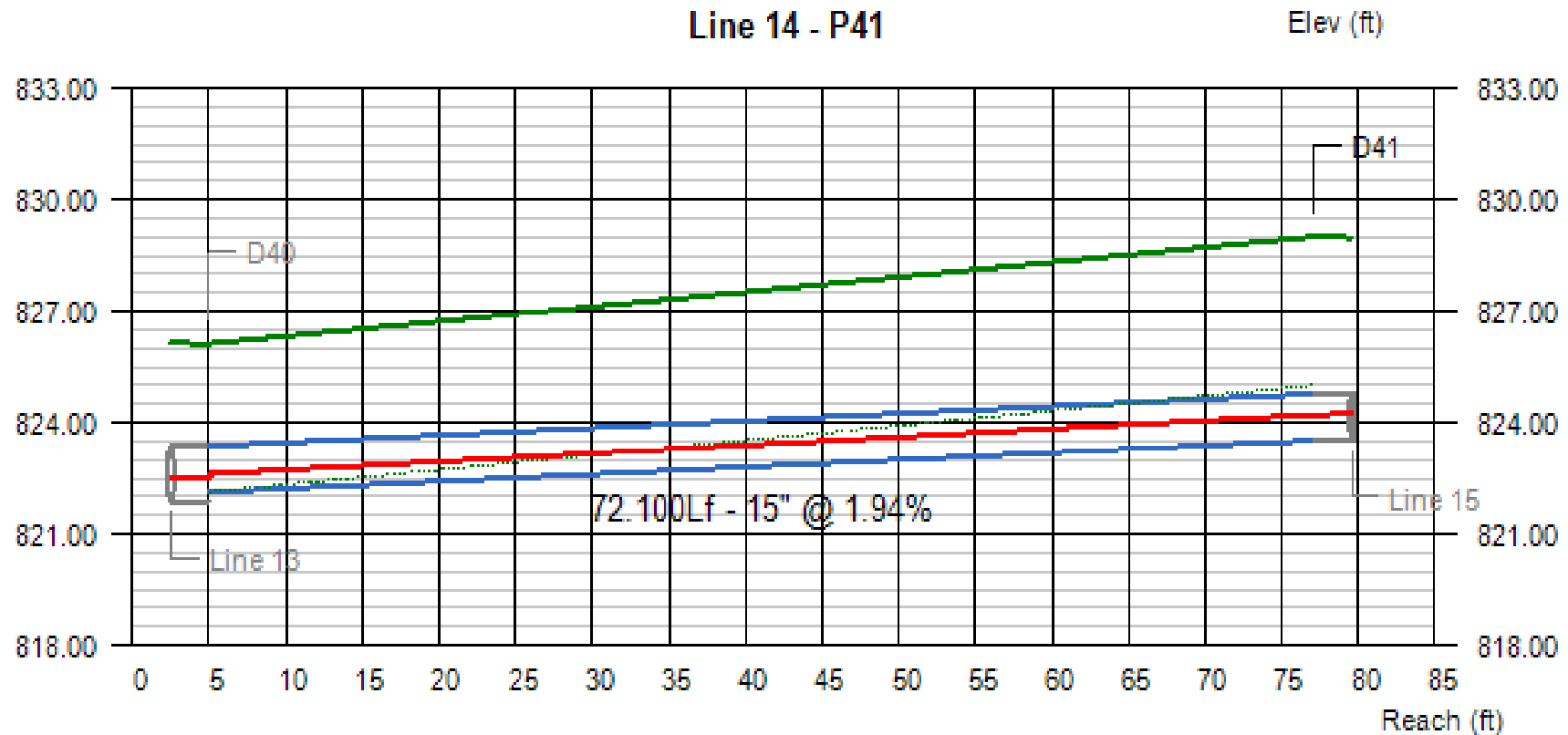
Line #	Q (cfs)	Invert Elevation		Depth of Flow			Hydraulic Grade Line			Velocity		Cover	
		Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Hw (ft)	Dn (ft)	Up (ft)	Jnct (ft)	Dn (ft/s)	Up (ft/s)	Dn (ft)	Up (ft)
13	2.99	821.37	821.87	0.67	0.66	0.66	822.04	822.53 j	822.53	3.94	4.02	3.50	2.75

Project File:

No. Lines: 21

Run Date: 7/10/202

Line Profile (Line 14) - P41



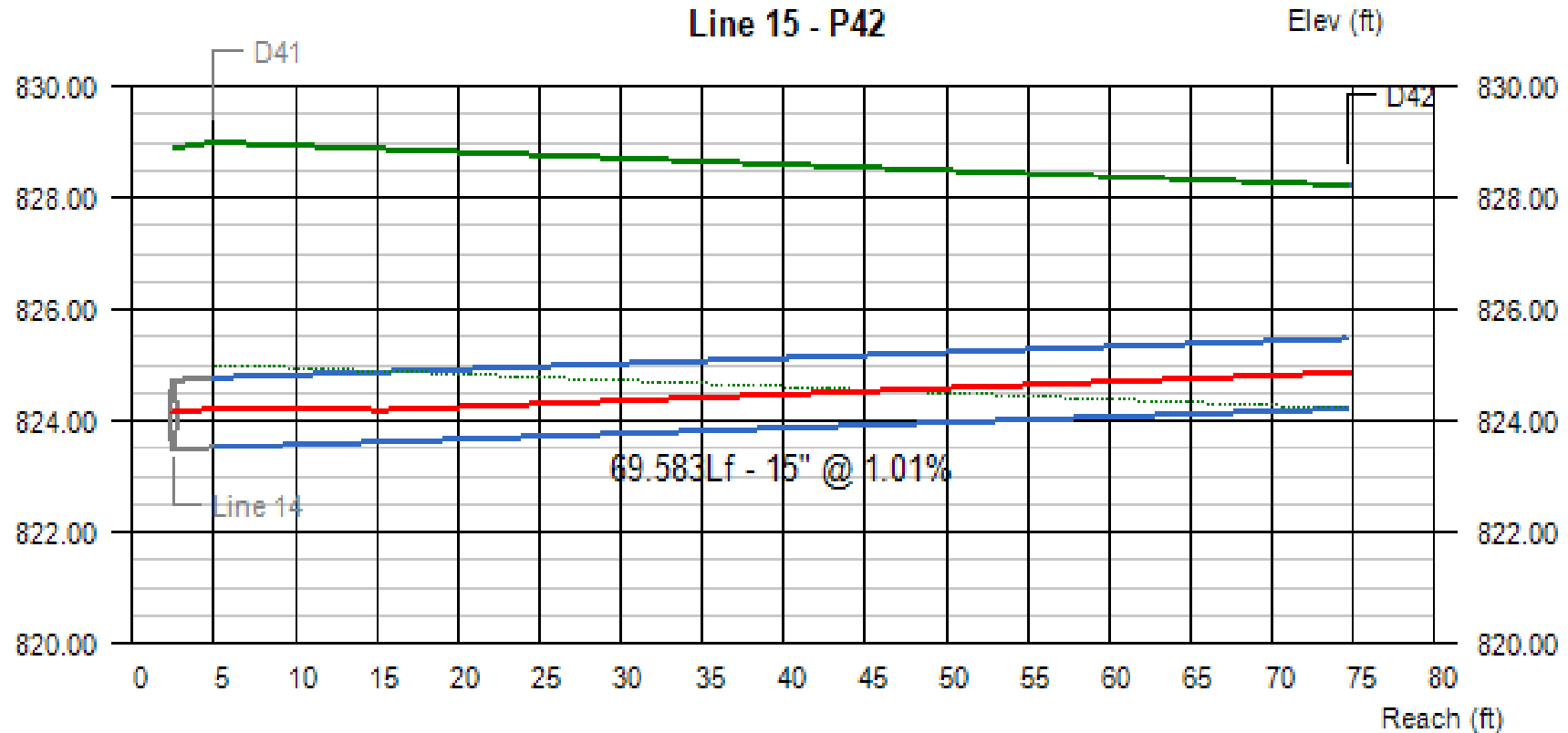
Line #	Q (cfs)	Invert Elevation		Depth of Flow			Hydraulic Grade Line			Velocity		Cover	
		Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Hw (ft)	Dn (ft)	Up (ft)	Jnct (ft)	Dn (ft/s)	Up (ft/s)	Dn (ft)	Up (ft)
14	2.97	822.12	823.52	0.49	0.69	0.69	822.61	824.21	824.21	6.58	4.26	2.75	4.23

Project File:

No. Lines: 21

Run Date: 7/10/2024

Line Profile (Line 15) - P42



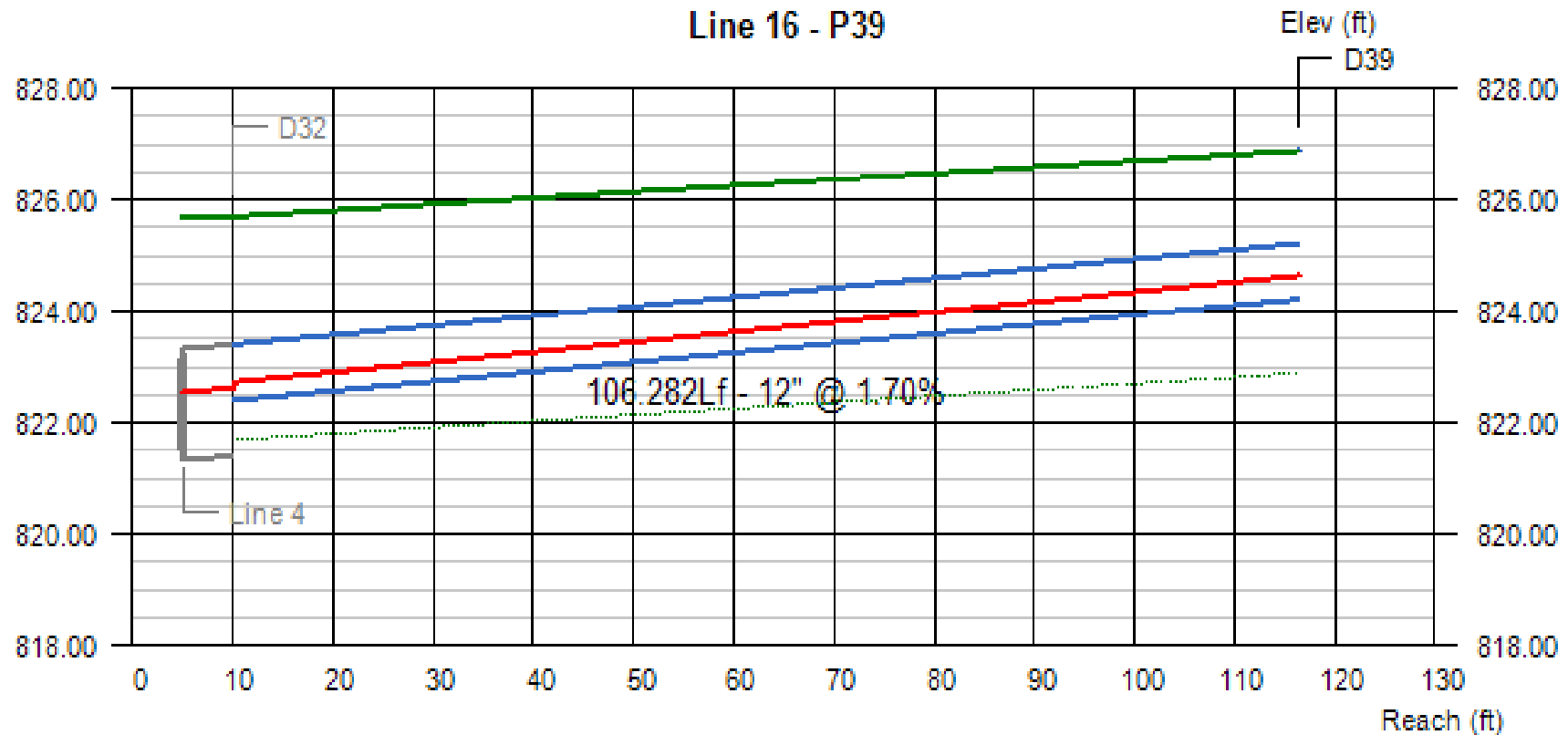
Line #	Q (cfs)	Invert Elevation		Depth of Flow			Hydraulic Grade Line			Velocity		Cover	
		Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Hw (ft)	Dn (ft)	Up (ft)	Jnct (ft)	Dn (ft/s)	Up (ft/s)	Dn (ft)	Up (ft)
15	2.56	823.52	824.22	0.69	0.64	0.64	824.21	824.86 j	824.86	3.67	4.04	4.23	2.75

Project File:

No. Lines: 21

Run Date: 7/10/202

Line Profile (Line 16) - P39



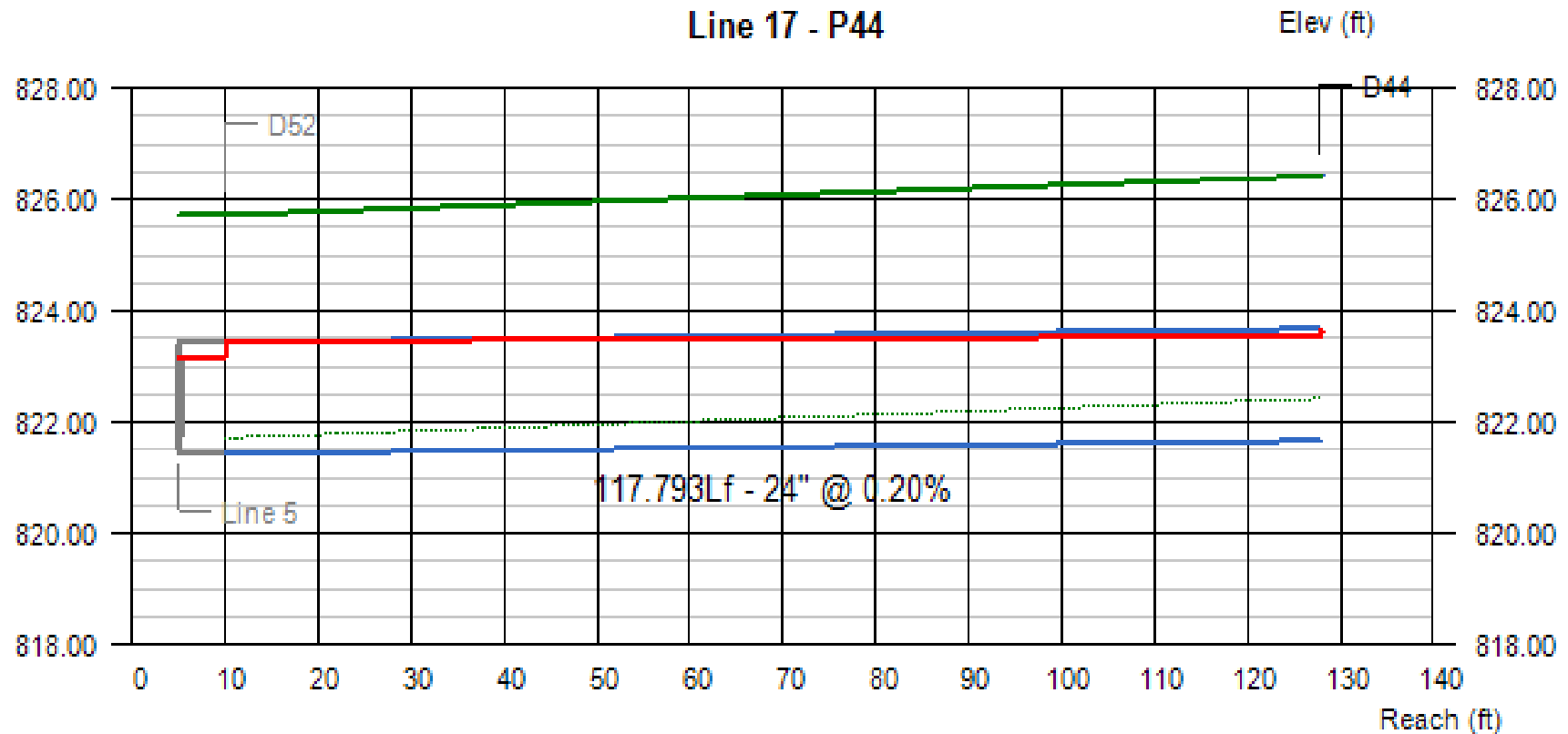
Line #	Q (cfs)	Invert Elevation		Depth of Flow			Hydraulic Grade Line			Velocity		Cover	
		Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Hw (ft)	Dn (ft)	Up (ft)	Jnct (ft)	Dn (ft/s)	Up (ft/s)	Dn (ft)	Up (ft)
16	1.03	822.40	824.21	0.32	0.43	0.43	822.72	824.64	824.64	4.76	3.23	2.29	1.67

Project File:

No. Lines: 21

Run Date: 7/10/202

Line Profile (Line 17) - P44



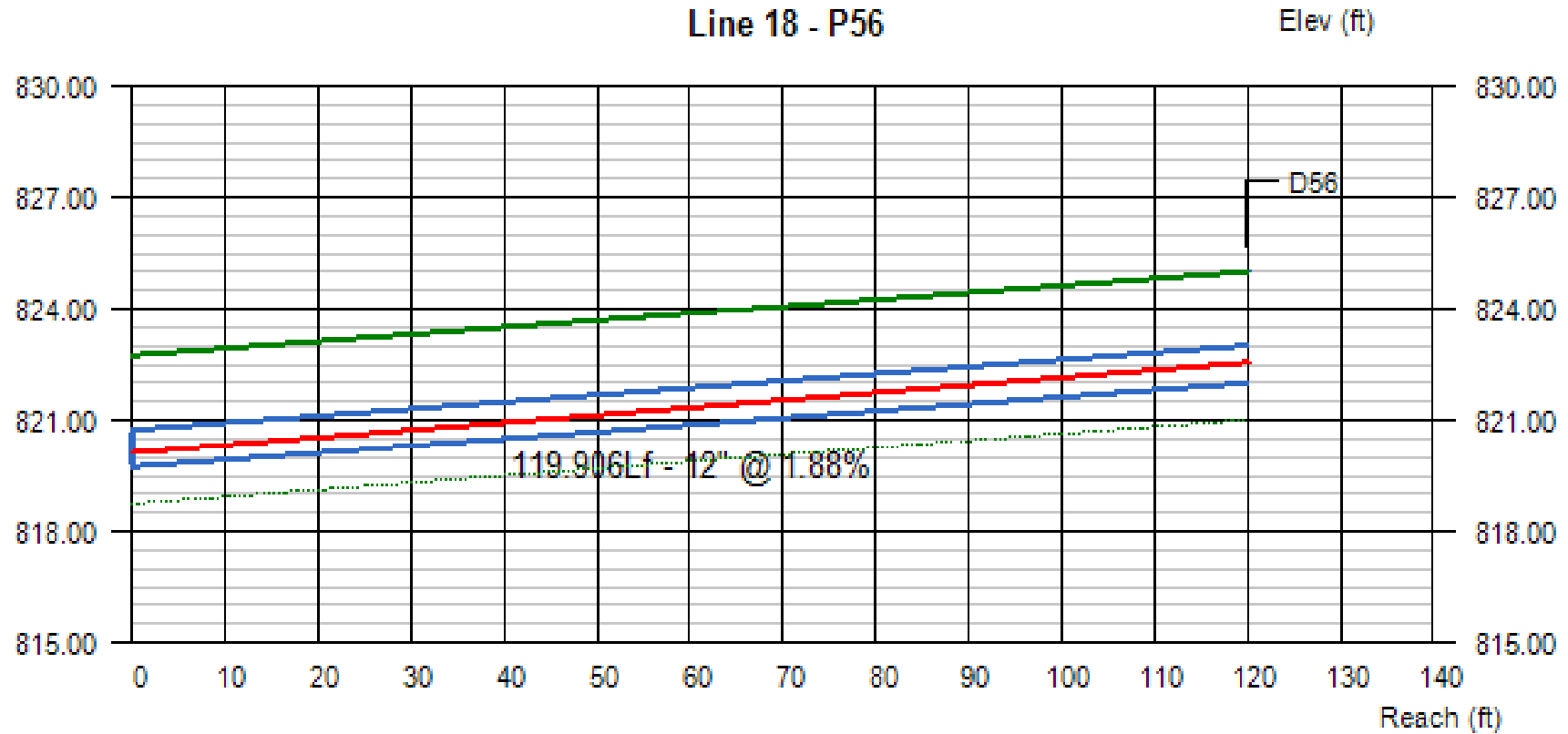
Line #	Q (cfs)	Invert Elevation		Depth of Flow			Hydraulic Grade Line			Velocity		Cover	
		Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Hw (ft)	Dn (ft)	Up (ft)	Jnct (ft)	Dn (ft/s)	Up (ft/s)	Dn (ft)	Up (ft)
17	6.81	821.43	821.67	2.00	1.87	1.95	823.44	823.54	823.62	2.17	2.23	2.29	2.75

Project File:

No. Lines: 21

Run Date: 7/10/202

Line Profile (Line 18) - P56



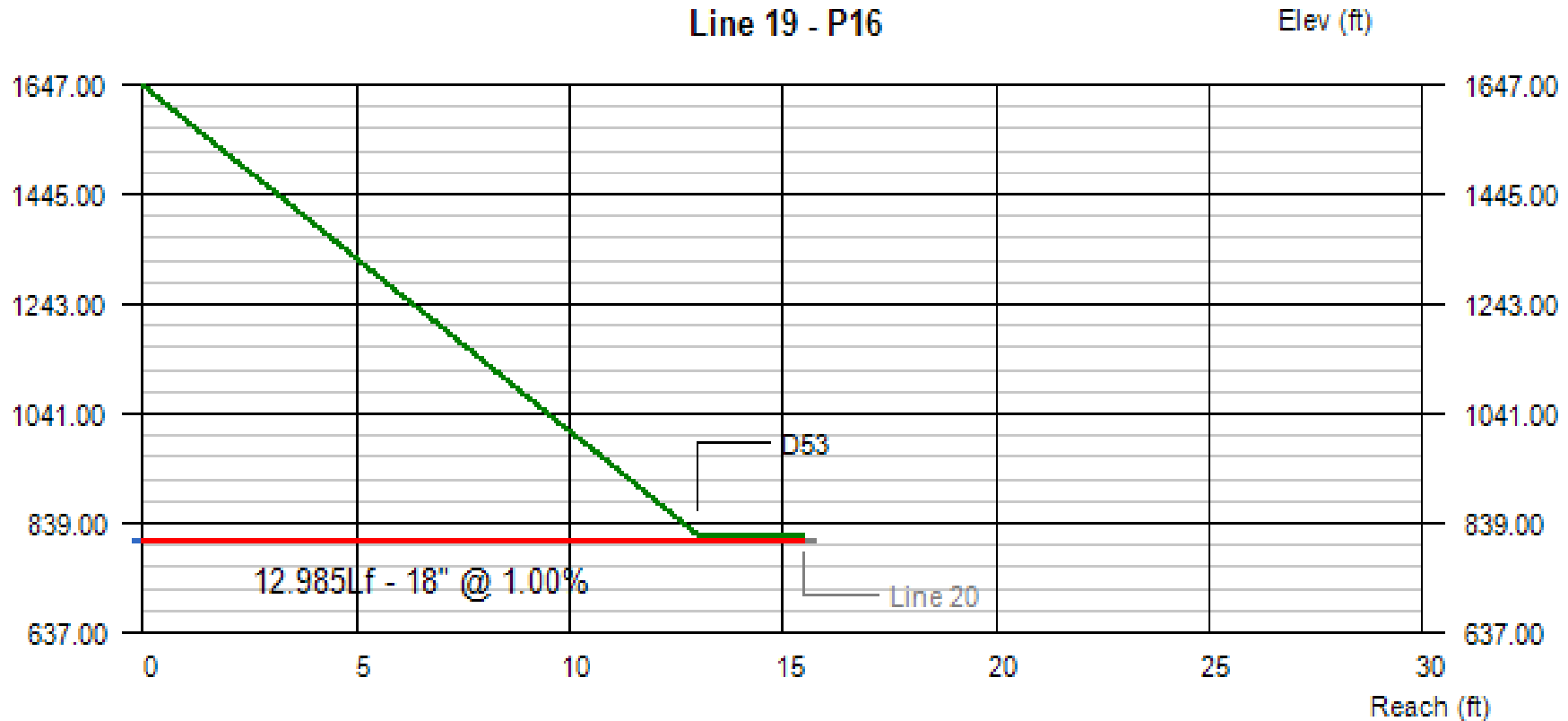
Line #	Q (cfs)	Invert Elevation		Depth of Flow			Hydraulic Grade Line			Velocity		Cover	
		Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Hw (ft)	Dn (ft)	Up (ft)	Jnct (ft)	Dn (ft/s)	Up (ft/s)	Dn (ft)	Up (ft)
18	1.66	819.74	822.00	0.39	0.55	0.55	820.13	822.55	822.55	5.97	3.78	2.00	2.01

Project File:

No. Lines: 21

Run Date: 7/10/202

Line Profile (Line 19) - P16



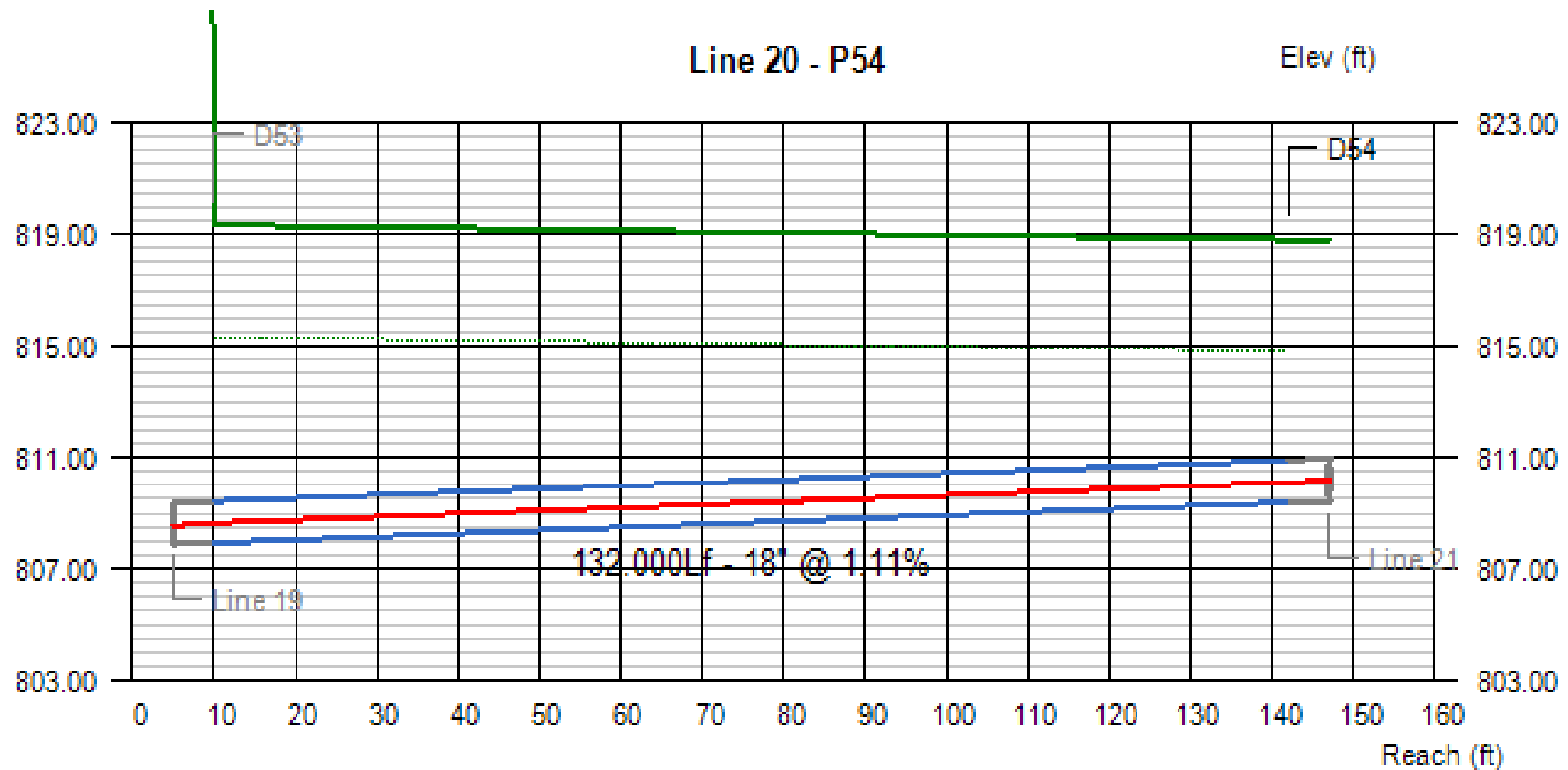
Line #	Q (cfs)	Invert Elevation		Depth of Flow			Hydraulic Grade Line			Velocity		Cover	
		Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Hw (ft)	Dn (ft)	Up (ft)	Jnct (ft)	Dn (ft/s)	Up (ft/s)	Dn (ft)	Up (ft)
19	3.44	807.80	807.93	0.59	0.71	0.71	808.39	808.64	808.64	5.32	4.20	837.00	9.90

Project File:

No. Lines: 21

Run Date: 7/10/2024

Line Profile (Line 20) - P54



Line #	Q (cfs)	Invert Elevation		Depth of Flow			Hydraulic Grade Line			Velocity		Cover	
		Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Hw (ft)	Dn (ft)	Up (ft)	Jnct (ft)	Dn (ft/s)	Up (ft/s)	Dn (ft)	Up (ft)
20	3.55	807.93	809.39	0.71	0.72	0.72	808.64	810.11	810.11	4.33	4.24	9.90	7.91

Project File:

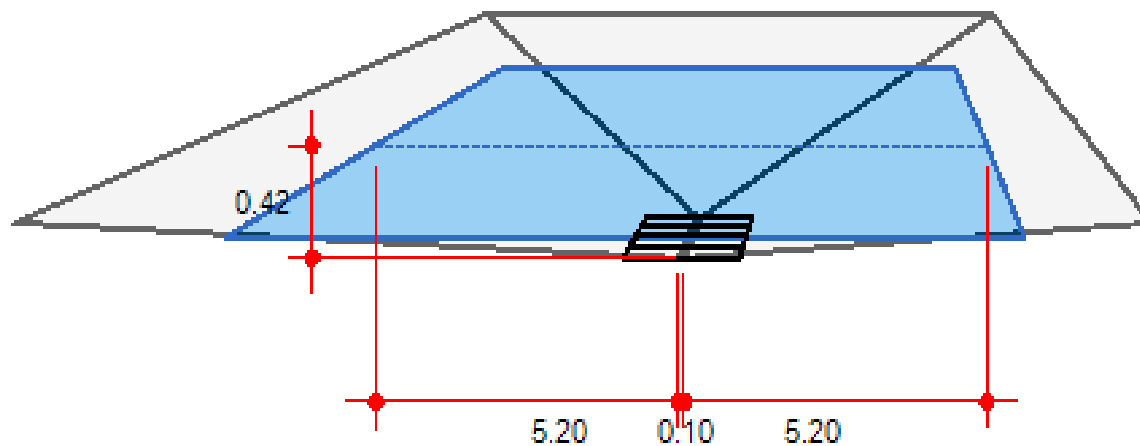
No. Lines: 21

Run Date: 7/10/202

Inlet Section (Line 1 - Drop Grate Inlet) - D29

All dimensions in feet

Line 1 - Drop Grate Inlet in Sag - D29



Line #	Q				Inlet			Gutter				Depth		Spread		Byp
	Catch (cfs)	Carry (cfs)	Capt (cfs)	Byp (cfs)	Length (ft)	Depr (in)	Area (sqft)	Width (ft)	Slope (ft/ft)	Sw (ft/ft)	Sx (ft/ft)	Gutter (ft)	Inlet (ft)	Gutter (ft)	Inlet (ft)	Line (ft)
1	6.65	0.00	6.65	0.00	2.00	....	2.00	0.10	Sag	0.100	0.100	0.42	10.50	n/a	n/a	Sag

Project File:

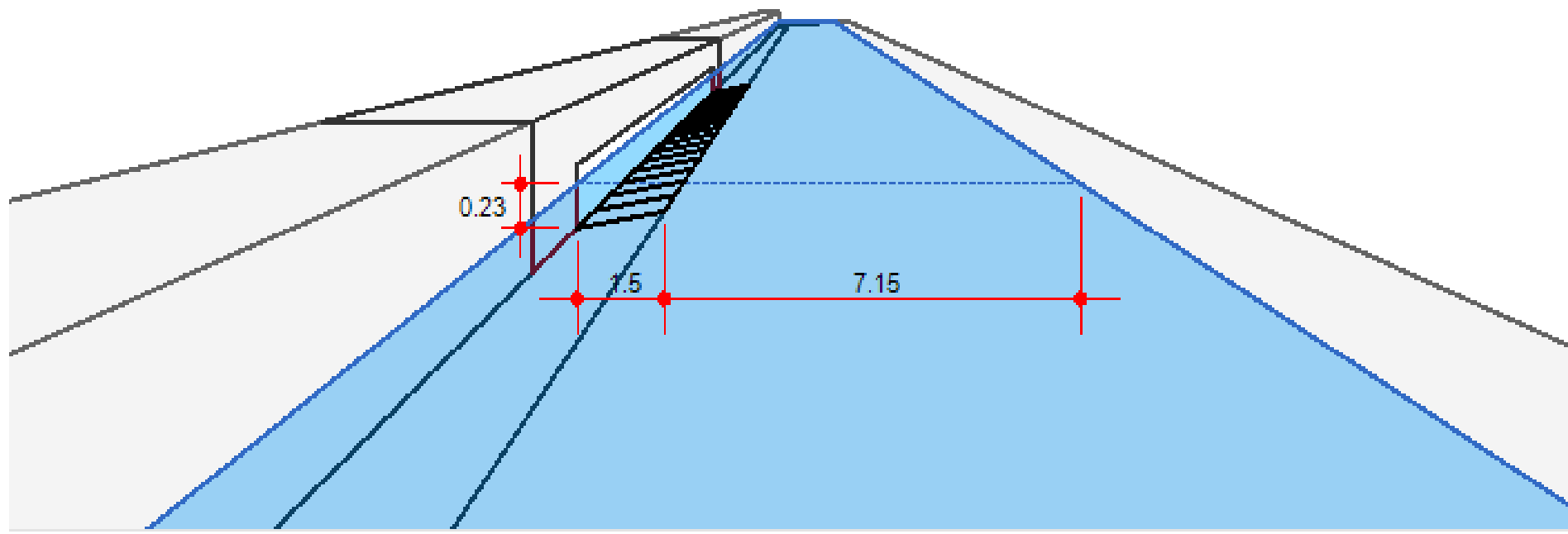
No. Lines: 21

Run Date: 7/10/2024

Inlet Section (Line 3 - Combination Inlet) - D30

All dimensions in feet

Line 3 - Combination Inlet in Sag - D30



Line #	Q				Inlet			Gutter				Depth		Spread		Byp
	Catch (cfs)	Carry (cfs)	Capt (cfs)	Byp (cfs)	Length (ft)	Depr (in)	Throat (in)	Width (ft)	Slope (ft/ft)	Sw (ft/ft)	Sx (ft/ft)	Gutter (ft)	Inlet (ft)	Gutter (ft)	Inlet (ft)	Line (ft)
3	2.43	0.51	2.93	0.00	9.00	0.0	4.0	1.50	Sag	0.060	0.020	0.23	8.65	n/a	n/a	Sag

Project File:

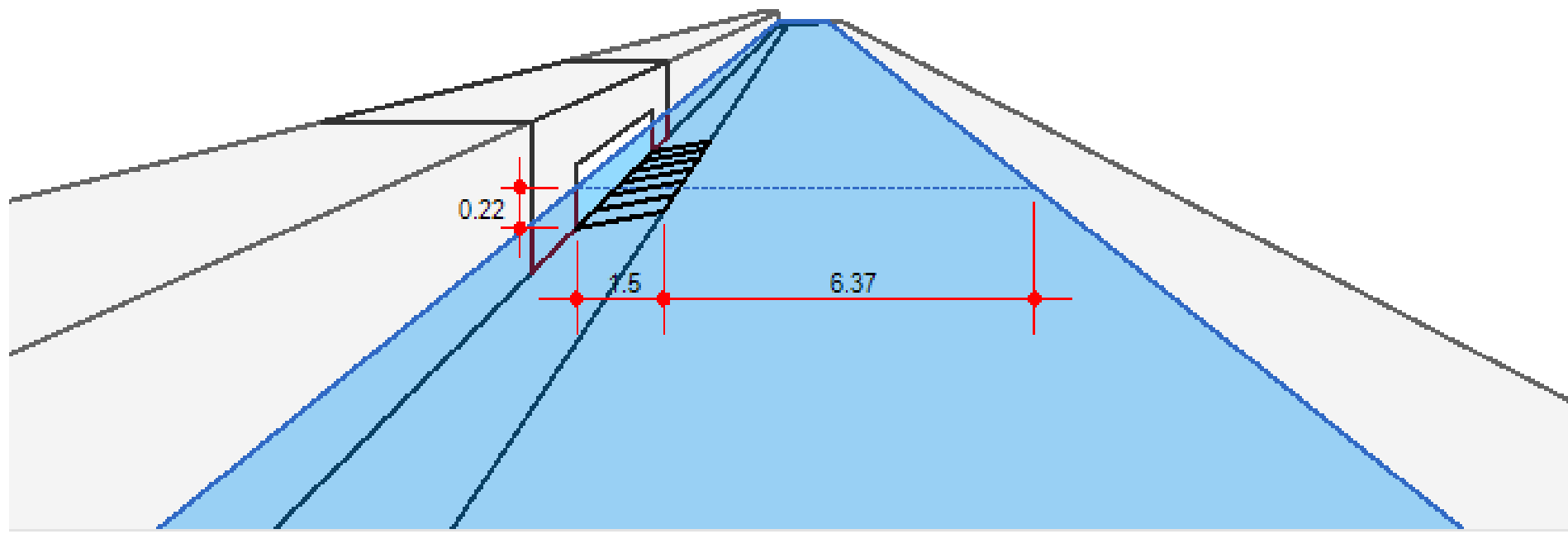
No. Lines: 21

Run Date: 7/10/202

Inlet Section (Line 4 - Combination Inlet) - D32

All dimensions in feet

Line 4 - Combination Inlet in Sag - D32



Line #	Q				Inlet			Gutter				Depth		Spread		Byp
	Catch (cfs)	Carry (cfs)	Capt (cfs)	Byp (cfs)	Length (ft)	Depr (in)	Throat (in)	Width (ft)	Slope (ft/ft)	Sw (ft/ft)	Sx (ft/ft)	Gutter (ft)	Inlet (ft)	Gutter (ft)	Inlet (ft)	Line (ft)
4	0.99	0.29	1.29	0.00	3.00	0.0	4.0	1.50	Sag	0.060	0.020	0.22	7.87	n/a	n/a	Sag

Project File:

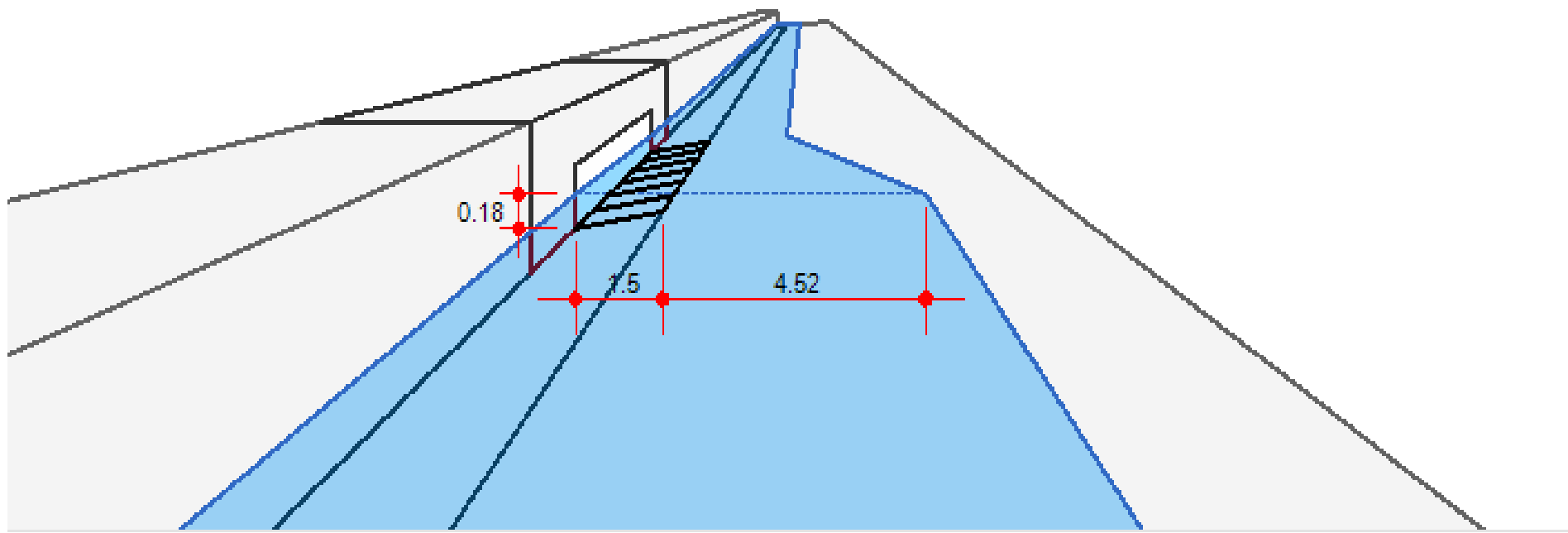
No. Lines: 21

Run Date: 7/10/202

Inlet Section (Line 5 - Combination Inlet) - D52

All dimensions in feet

Line 5 - Combination Inlet on Grade - D52



Line #	Q				Inlet			Gutter				Depth		Spread		Byp
	Catch (cfs)	Carry (cfs)	Capt (cfs)	Byp (cfs)	Length (ft)	Depr (in)	Throat (in)	Width (ft)	Slope (ft/ft)	Sw (ft/ft)	Sx (ft/ft)	Gutter (ft)	Inlet (ft)	Gutter (ft)	Inlet (ft)	Line (ft)
5	0.83	0.23	0.77	0.29	3.00	0.0	4.0	1.50	0.010	0.060	0.020	0.18	6.02	0.12	3.06	4

Project File:

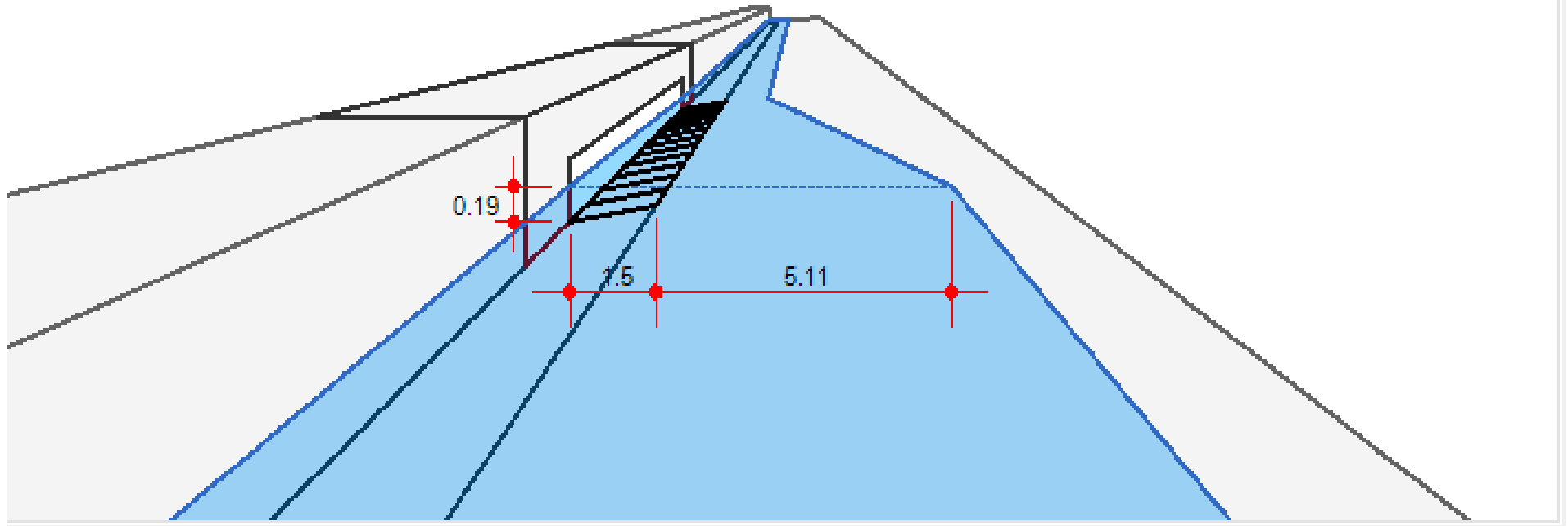
No. Lines: 21

Run Date: 7/10/202

Inlet Section (Line 6 - Combination Inlet) - D33

All dimensions in feet

Line 6 - Combination Inlet on Grade - D33



Line #	Q				Inlet			Gutter				Depth		Spread		Byp
	Catch (cfs)	Carry (cfs)	Capt (cfs)	Byp (cfs)	Length (ft)	Depr (in)	Throat (in)	Width (ft)	Slope (ft/ft)	Sw (ft/ft)	Sx (ft/ft)	Gutter (ft)	Inlet (ft)	Gutter (ft)	Inlet (ft)	Line (ft)
6	0.99	0.32	1.09	0.23	6.00	0.0	4.0	1.50	0.010	0.060	0.020	0.19	6.61	0.11	2.55	5

Project File:

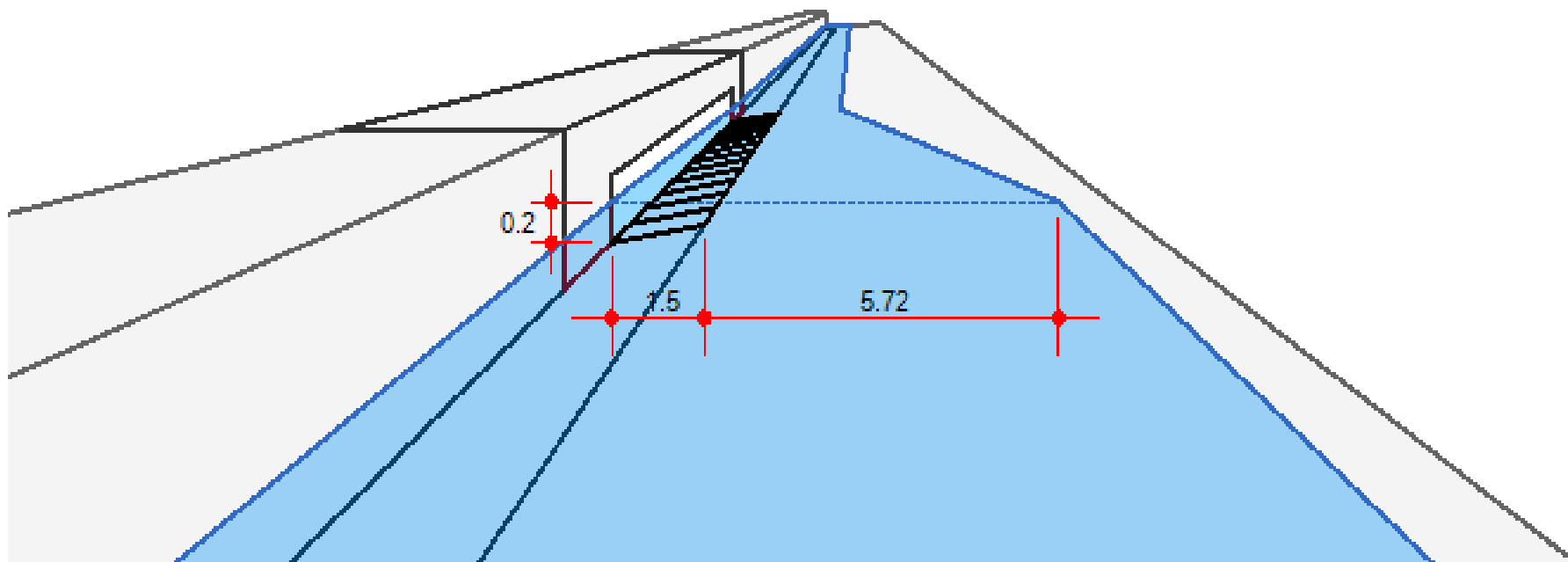
No. Lines: 21

Run Date: 7/10/202

Inlet Section (Line 7 - Combination Inlet) - D34

All dimensions in feet

Line 7 - Combination Inlet on Grade - D34



Line #	Q				Inlet			Gutter				Depth		Spread		Byp
	Catch (cfs)	Carry (cfs)	Capt (cfs)	Byp (cfs)	Length (ft)	Depr (in)	Throat (in)	Width (ft)	Slope (ft/ft)	Sw (ft/ft)	Sx (ft/ft)	Gutter (ft)	Inlet (ft)	Gutter (ft)	Inlet (ft)	Line (ft)
7	1.27	0.33	1.29	0.32	6.00	0.0	4.0	1.50	0.010	0.060	0.020	0.20	7.22	0.12	3.21	6

Project File:

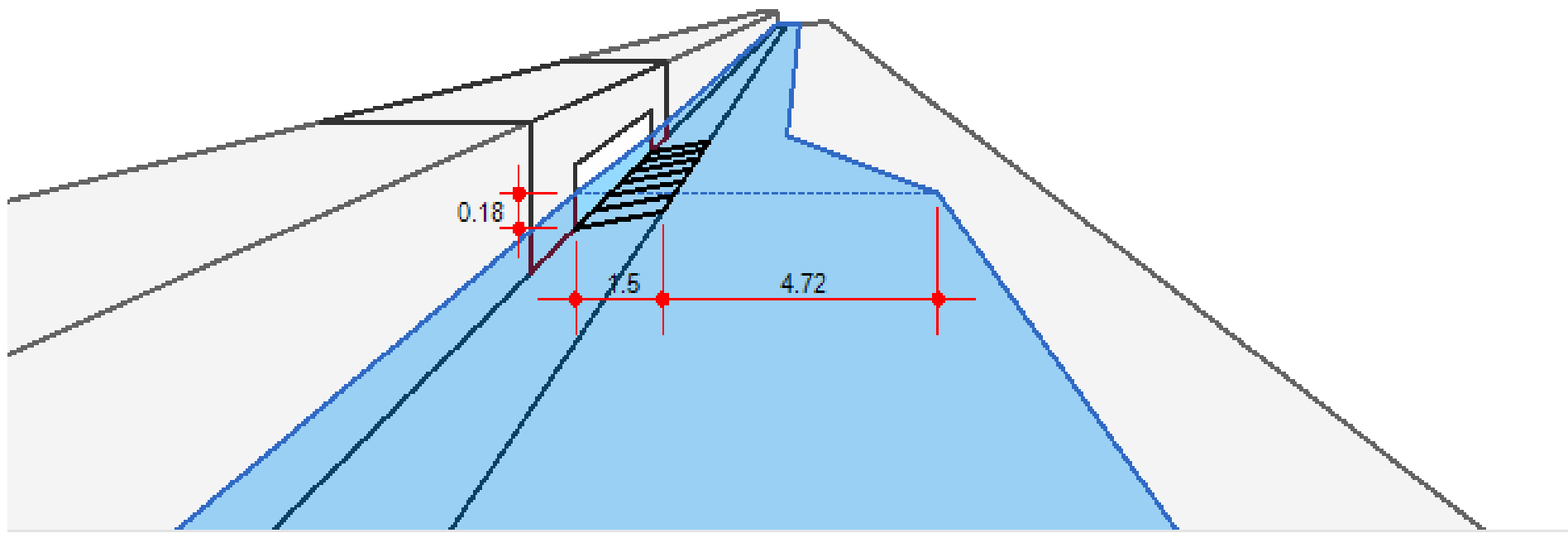
No. Lines: 21

Run Date: 7/10/202

Inlet Section (Line 8 - Combination Inlet) - D36

All dimensions in feet

Line 8 - Combination Inlet on Grade - D36



Line #	Q				Inlet			Gutter				Depth		Spread		Byp
	Catch (cfs)	Carry (cfs)	Capt (cfs)	Byp (cfs)	Length (ft)	Depr (in)	Throat (in)	Width (ft)	Slope (ft/ft)	Sw (ft/ft)	Sx (ft/ft)	Gutter (ft)	Inlet (ft)	Gutter (ft)	Inlet (ft)	Line (ft)
8	1.11	0.03	0.81	0.33	3.00	0.0	4.0	1.50	0.010	0.060	0.020	0.18	6.22	0.13	3.31	7

Project File:

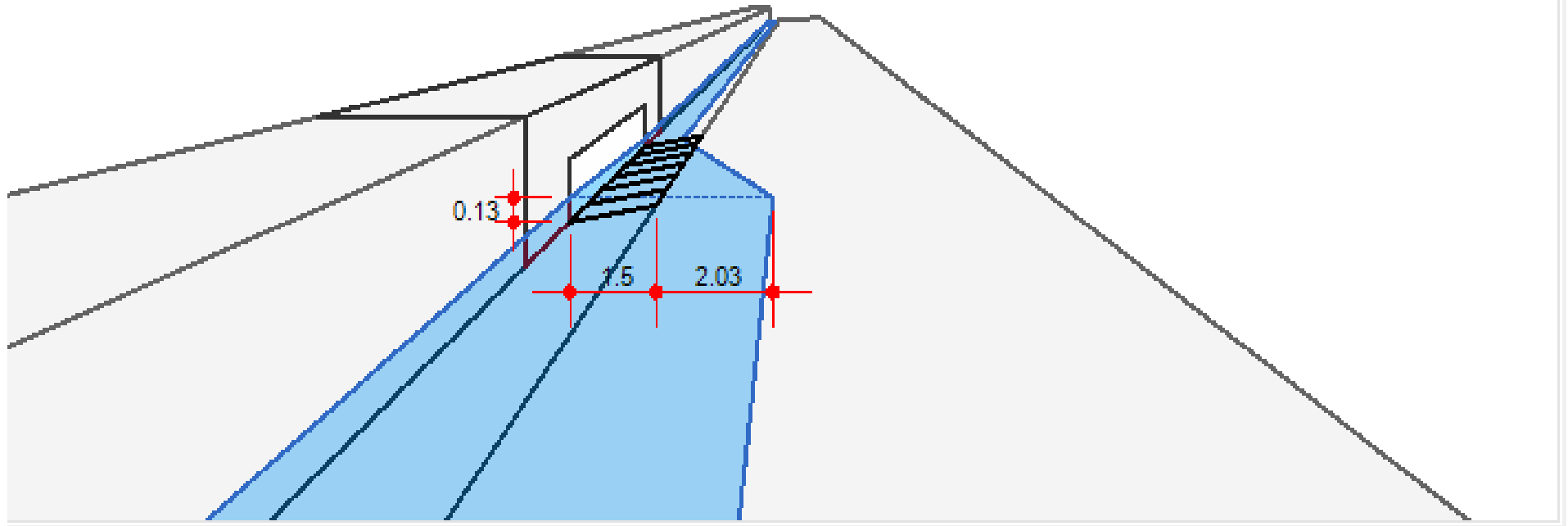
No. Lines: 21

Run Date: 7/10/202

Inlet Section (Line 9 - Combination Inlet) - D48

All dimensions in feet

Line 9 - Combination Inlet on Grade - D48



Line #	Q				Inlet			Gutter				Depth		Spread		Byp
	Catch (cfs)	Carry (cfs)	Capt (cfs)	Byp (cfs)	Length (ft)	Depr (in)	Throat (in)	Width (ft)	Slope (ft/ft)	Sw (ft/ft)	Sx (ft/ft)	Gutter (ft)	Inlet (ft)	Gutter (ft)	Inlet (ft)	Line (ft)
9	0.37	0.00	0.34	0.03	3.00	0.0	4.0	1.50	0.010	0.060	0.020	0.13	3.53	0.05	0.89	8

Project File:

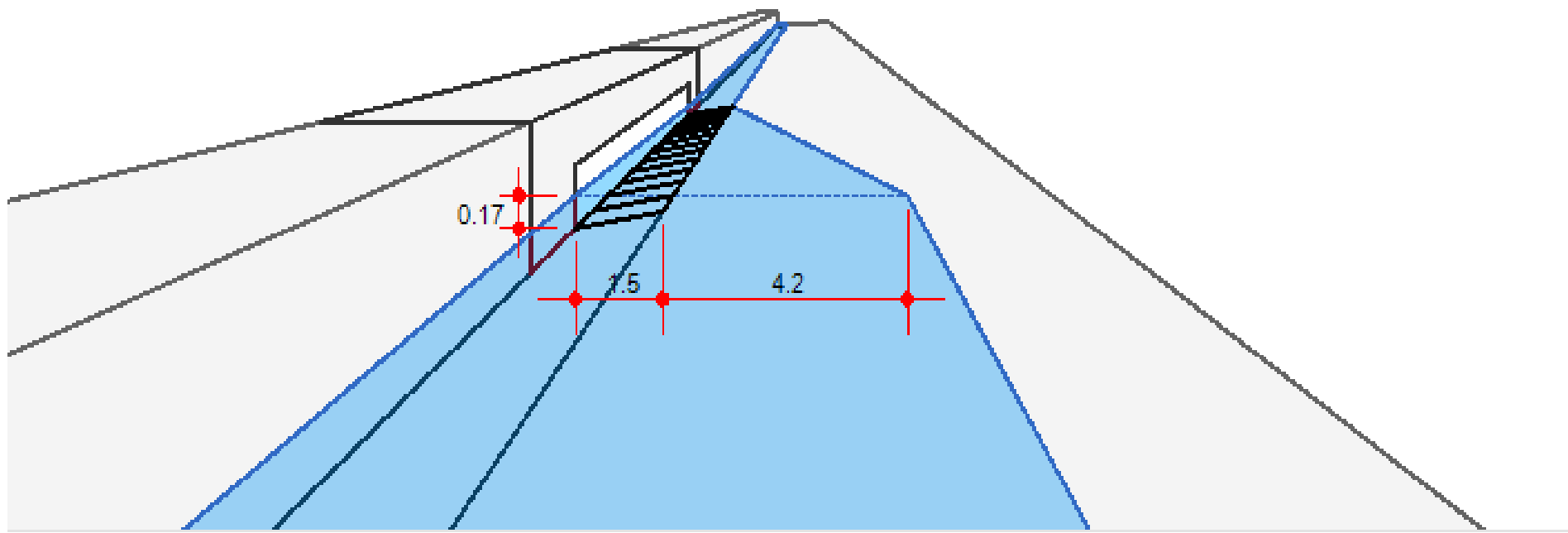
No. Lines: 21

Run Date: 7/10/202

Inlet Section (Line 10 - Combination Inlet) - D38

All dimensions in feet

Line 10 - Combination Inlet on Grade - D38



Line #	Q				Inlet			Gutter				Depth		Spread		Byp
	Catch (cfs)	Carry (cfs)	Capt (cfs)	Byp (cfs)	Length (ft)	Depr (in)	Throat (in)	Width (ft)	Slope (ft/ft)	Sw (ft/ft)	Sx (ft/ft)	Gutter (ft)	Inlet (ft)	Gutter (ft)	Inlet (ft)	Line (ft)
10	0.94	0.00	0.82	0.12	6.00	0.0	4.0	1.50	0.010	0.060	0.020	0.17	5.70	0.09	1.49	11

Project File:

No. Lines: 21

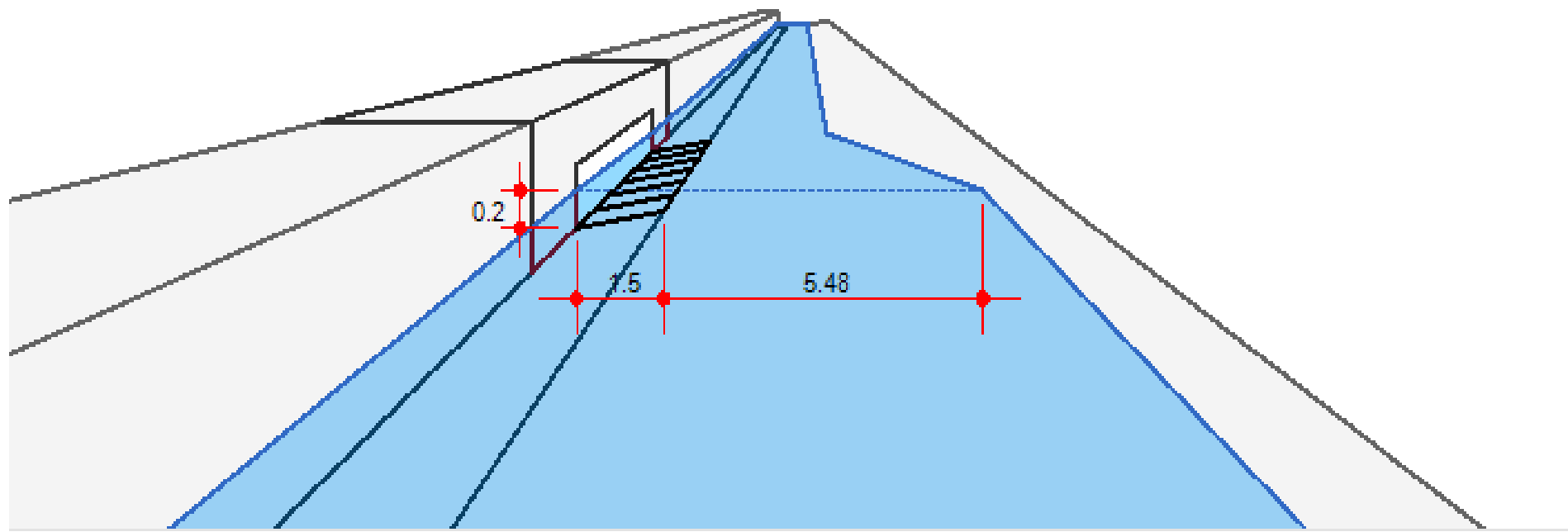
Run Date: 7/10/20

100

Inlet Section (Line 11 - Combination Inlet) - D37

All dimensions in feet

Line 11 - Combination Inlet on Grade - D37



Line #	Q				Inlet			Gutter				Depth		Spread		Byp
	Catch (cfs)	Carry (cfs)	Capt (cfs)	Byp (cfs)	Length (ft)	Depr (in)	Throat (in)	Width (ft)	Slope (ft/ft)	Sw (ft/ft)	Sx (ft/ft)	Gutter (ft)	Inlet (ft)	Gutter (ft)	Inlet (ft)	Line (ft)
11	1.36	0.12	0.98	0.51	3.00	0.0	4.0	1.50	0.010	0.060	0.020	0.20	6.98	0.14	4.20	3

Project File:

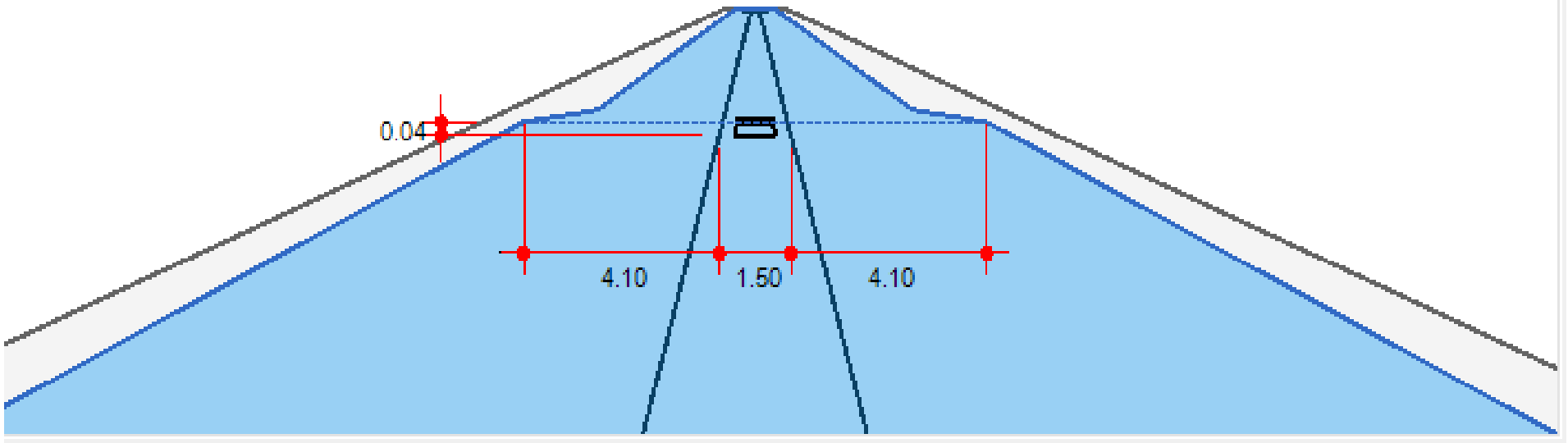
No. Lines: 21

Run Date: 7/10/20

Inlet Section (Line 12 - Drop Grate Inlet) - D51

All dimensions in feet

Line 12 - Drop Grate Inlet on Grade - D51



Line #	Q				Inlet			Gutter				Depth		Spread		Byp
	Catch (cfs)	Carry (cfs)	Capt (cfs)	Byp (cfs)	Length (ft)	Depr (in)	Width (ft)	Width (ft)	Slope (ft/ft)	Sw (ft/ft)	Sx (ft/ft)	Gutter (ft)	Inlet (ft)	Gutter (ft)	Inlet (ft)	Line (ft)
12	0.17	0.00	0.06	0.10	0.83	....	0.83	1.50	0.040	0.060	0.010	0.04	9.70	0.04	9.70	Offsite

Project File:

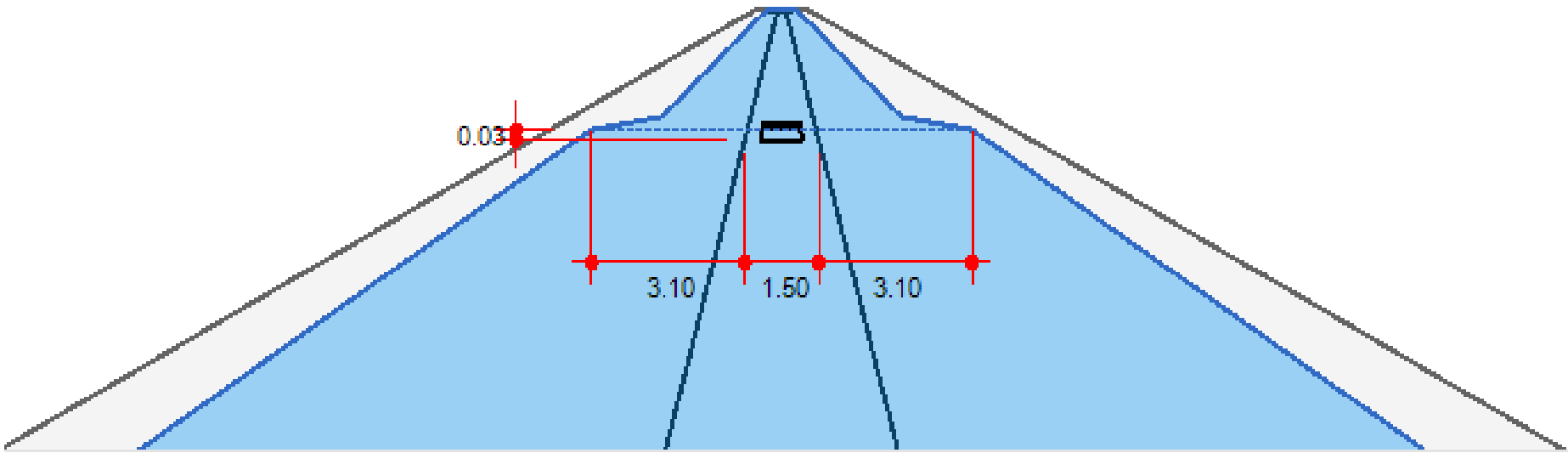
No. Lines: 21

Run Date: 7/10/20

Inlet Section (Line 13 - Drop Grate Inlet) - D40

All dimensions in feet

Line 13 - Drop Grate Inlet on Grade - D40



Line #	Q				Inlet			Gutter				Depth		Spread		Byp
	Catch (cfs)	Carry (cfs)	Capt (cfs)	Byp (cfs)	Length (ft)	Depr (in)	Width (ft)	Width (ft)	Slope (ft/ft)	Sw (ft/ft)	Sx (ft/ft)	Gutter (ft)	Inlet (ft)	Gutter (ft)	Inlet (ft)	Line (ft)
13	0.07	0.00	0.03	0.04	0.83	....	0.83	1.50	0.040	0.060	0.010	0.03	7.70	0.03	7.70	Offsite

Project File:

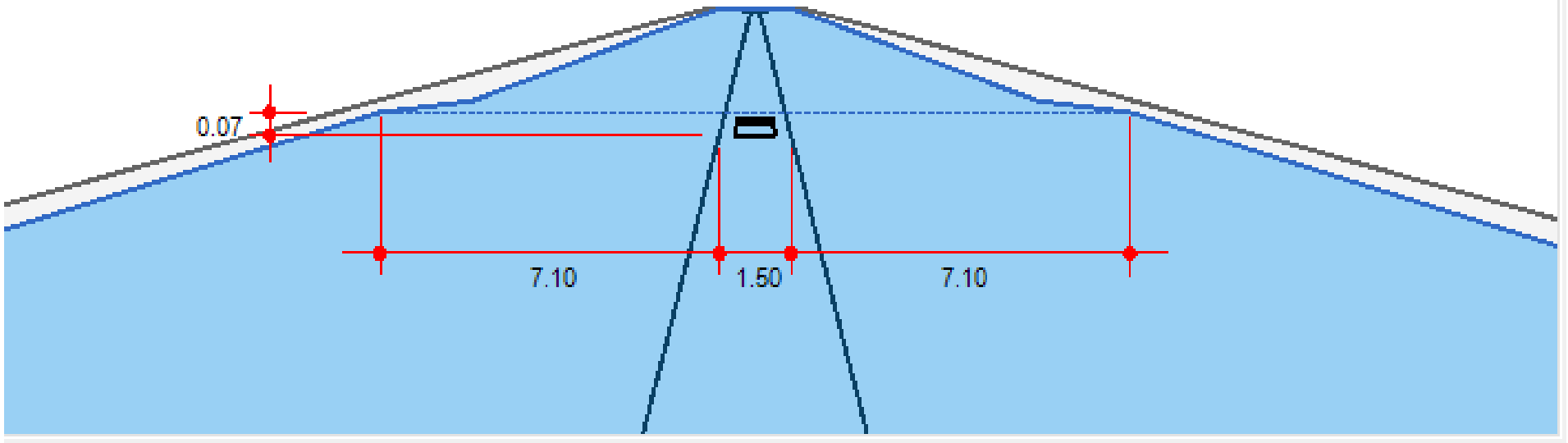
No. Lines: 21

Run Date: 7/10/20

Inlet Section (Line 14 - Drop Grate Inlet) - D41

All dimensions in feet

Line 14 - Drop Grate Inlet on Grade - D41



Line #	Q				Inlet			Gutter				Depth		Spread		Byp
	Catch (cfs)	Carry (cfs)	Capt (cfs)	Byp (cfs)	Length (ft)	Depr (in)	Width (ft)	Width (ft)	Slope (ft/ft)	Sw (ft/ft)	Sx (ft/ft)	Gutter (ft)	Inlet (ft)	Gutter (ft)	Inlet (ft)	Line (ft)
14	0.56	0.00	0.17	0.38	0.83	....	0.83	1.50	0.040	0.060	0.010	0.07	15.70	0.07	15.70	Offsite

Project File:

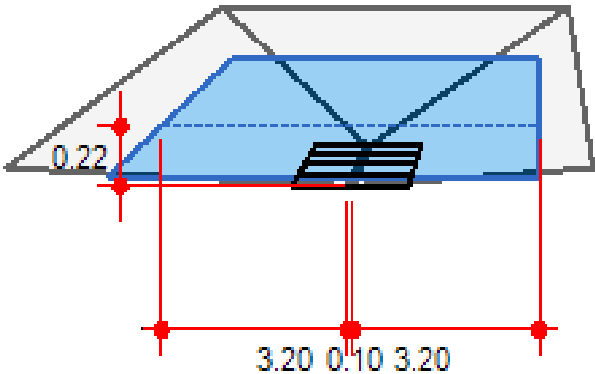
No. Lines: 21

Run Date: 7/10/20

Inlet Section (Line 15 - Drop Grate Inlet) - D42

All dimensions in feet

Line 15 - Drop Grate Inlet in Sag - D42



Line #	Q				Inlet			Gutter				Depth		Spread		Byp
	Catch (cfs)	Carry (cfs)	Capt (cfs)	Byp (cfs)	Length (ft)	Depr (in)	Area (sqft)	Width (ft)	Slope (ft/ft)	Sw (ft/ft)	Sx (ft/ft)	Gutter (ft)	Inlet (ft)	Gutter (ft)	Inlet (ft)	Line (ft)
15	2.56	0.00	2.56	0.00	2.00	....	2.00	0.10	Sag	0.100	0.100	0.22	6.50	n/a	n/a	Sag

Project File:

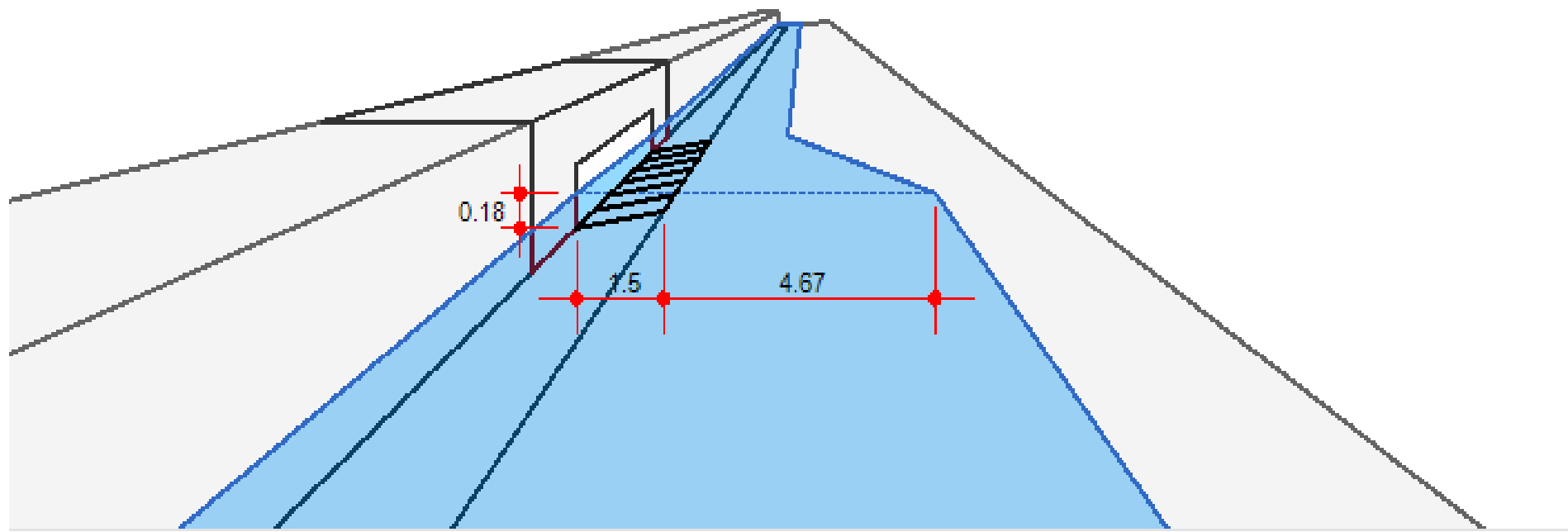
No. Lines: 21

Run Date: 7/10/20

Inlet Section (Line 16 - Combination Inlet) - D39

All dimensions in feet

Line 16 - Combination Inlet on Grade - D39



Line #	Q				Inlet			Gutter				Depth		Spread		Byp
	Catch (cfs)	Carry (cfs)	Capt (cfs)	Byp (cfs)	Length (ft)	Depr (in)	Throat (in)	Width (ft)	Slope (ft/ft)	Sw (ft/ft)	Sx (ft/ft)	Gutter (ft)	Inlet (ft)	Gutter (ft)	Inlet (ft)	Line (ft)
16	1.03	0.00	0.75	0.29	3.00	0.0	4.0	1.50	0.010	0.060	0.020	0.18	6.17	0.12	3.17	Offsite

Project File:

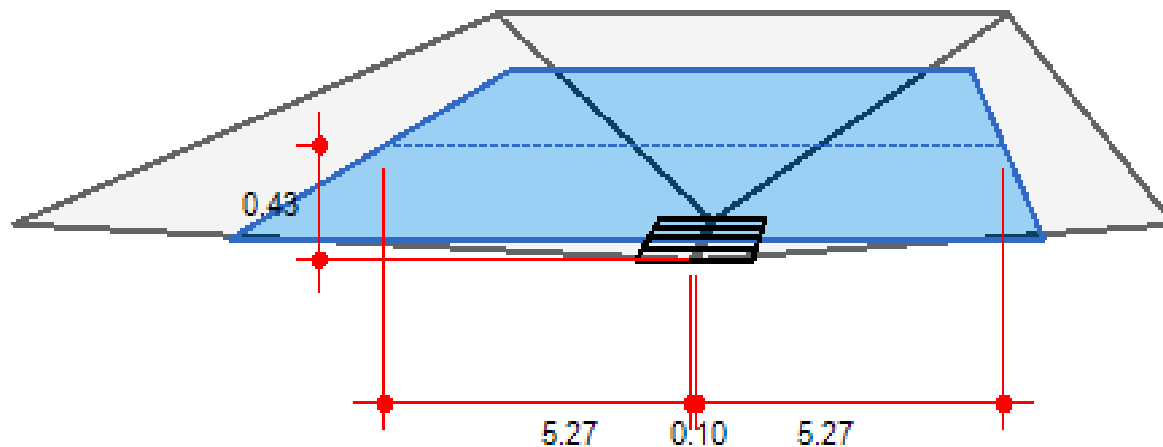
No. Lines: 21

Run Date: 7/10/20

Inlet Section (Line 17 - Drop Grate Inlet) - D44

All dimensions in feet

Line 17 - Drop Grate Inlet in Sag - D44



Line #	Q				Inlet			Gutter				Depth		Spread		Byp
	Catch (cfs)	Carry (cfs)	Capt (cfs)	Byp (cfs)	Length (ft)	Depr (in)	Area (sqft)	Width (ft)	Slope (ft/ft)	Sw (ft/ft)	Sx (ft/ft)	Gutter (ft)	Inlet (ft)	Gutter (ft)	Inlet (ft)	Line (ft)
17	6.81	0.00	6.81	0.00	2.00	....	2.00	0.10	Sag	0.100	0.100	0.43	10.63	n/a	n/a	Sag

Project File:

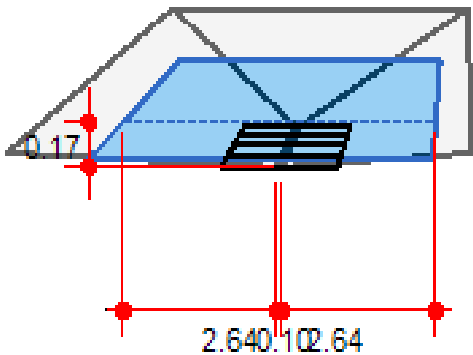
No. Lines: 21

Run Date: 7/10/20

Inlet Section (Line 18 - Drop Grate Inlet) - D56

All dimensions in feet

Line 18 - Drop Grate Inlet in Sag - D56

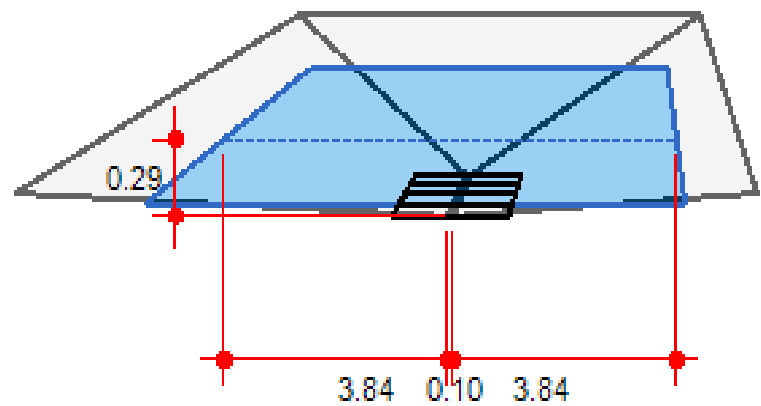


Line #	Q				Inlet			Gutter				Depth		Spread		Byp
	Catch (cfs)	Carry (cfs)	Capt (cfs)	Byp (cfs)	Length (ft)	Depr (in)	Area (sqft)	Width (ft)	Slope (ft/ft)	Sw (ft/ft)	Sx (ft/ft)	Gutter (ft)	Inlet (ft)	Gutter (ft)	Inlet (ft)	Line (ft)
18	1.66	0.00	1.66	0.00	2.00	....	2.00	0.10	Sag	0.100	0.100	0.17	5.37	n/a	n/a	Sag
Project File:										No. Lines: 21			Run Date: 7/10/20			

Inlet Section (Line 21 - Drop Grate Inlet) - D55

All dimensions in feet

Line 21 - Drop Grate Inlet in Sag - D55



Line #	Q				Inlet			Gutter				Depth		Spread		Byp
	Catch (cfs)	Carry (cfs)	Capt (cfs)	Byp (cfs)	Length (ft)	Depr (in)	Area (sqft)	Width (ft)	Slope (ft/ft)	Sw (ft/ft)	Sx (ft/ft)	Gutter (ft)	Inlet (ft)	Gutter (ft)	Inlet (ft)	Line (ft)
21	3.73	0.00	3.73	0.00	2.00	....	2.00	0.10	Sag	0.100	0.100	0.29	7.78	n/a	n/a	Sag

Project File:

No. Lines: 21

Run Date: 7/10/20

10-Year Storm Calculations

Storm Sewer Summary Report

Item # 5.

Line No.	Line ID	Flow rate (cfs)	Line Size (in)	Line shape	Line length (ft)	Invert EL Dn (ft)	Invert EL Up (ft)	Line Slope (%)	HGL Down (ft)	HGL Up (ft)	Minor loss (ft)	HGL Junct (ft)	Dns Line No.	Type
1	P29	25.20	36	Cir	231.361	812.00	815.00	1.297	813.19	816.62	0.98	816.62	End	DropGrate
2	P50	18.60	36	Cir	47.619	815.00	815.48	1.008	816.62	816.86	n/a	816.86 j	1	None
3	P30	15.81	24	Cir	119.000	816.48	820.98	3.782	817.31	822.41	n/a	822.41	2	Combination
4	P32	14.04	24	Cir	26.000	820.98	821.40	1.616	822.41	822.75	n/a	822.75 j	3	Combination
5	P52	12.56	24	Cir	15.551	821.40	821.43	0.193	823.40	823.43	0.37	823.80	4	Combination
6	P33	4.97	18	Cir	85.160	821.93	823.23	1.527	823.80	824.09	n/a	824.09 j	5	Combination
7	P34	3.29	18	Cir	129.034	823.23	825.00	1.372	824.09	825.69	n/a	825.69 j	6	Combination
8	P35	2.35	12	Cir	146.688	825.50	826.94	0.982	826.10	827.60	0.43	827.60	7	Combination
9	P48	0.44	12	Cir	110.755	827.14	831.80	4.207	827.60	832.07	n/a	832.07 j	8	Combination
10	P38	1.11	12	Cir	26.000	826.94	827.13	0.731	827.60	827.57	n/a	827.57 j	8	Combination
11	P37	1.60	12	Cir	26.000	823.73	823.83	0.385	824.36	824.46	0.15	824.61	6	Combination
12	P51	3.67	18	Cir	234.000	816.98	821.37	1.876	817.50	822.10	0.43	822.10	2	DropGrate
13	P40	3.56	18	Cir	51.137	821.37	821.87	0.978	822.10	822.59	n/a	822.59 j	12	DropGrate
14	P41	3.53	15	Cir	72.100	822.12	823.52	1.942	822.66	824.28	n/a	824.28	13	DropGrate
15	P42	3.03	15	Cir	69.583	823.52	824.22	1.006	824.28	824.92	n/a	824.92 j	14	DropGrate
16	P39	1.22	12	Cir	106.282	822.40	824.21	1.703	822.75	824.67	n/a	824.67	4	Combination
17	P44	8.09	24	Cir	117.793	821.43	821.67	0.204	823.80*	823.95*	0.10	824.06	5	DropGrate
18	P56	1.97	12	Cir	119.906	819.74	822.00	1.885	820.16	822.60	0.25	822.60	End	DropGrate
19	P16	4.13	18	Cir	12.985	807.80	807.93	1.001	808.45	808.71	0.31	808.71	End	Manhole
20	P54	4.23	18	Cir	132.000	807.93	809.39	1.106	808.71	810.18	n/a	810.18	19	Manhole
21	P55	4.41	18	Cir	212.012	809.39	811.51	1.000	810.18	812.32	0.32	812.32	20	DropGrate

Project File: REVISED HAWKS POINTE PLAT 6 .stm

Number of lines: 21

Run Date: 7/10/2024

NOTES: Return period = 10 Yrs. ; *Surcharged (HGL above crown). ; j - Line contains hyd. jump.

Inlet Report

Item # 5.

Line No	Inlet ID	Q = CIA (cfs)	Q carry (cfs)	Q capt (cfs)	Q Byp (cfs)	Junc Type	Curb Inlet		Grate Inlet			Gutter							Inlet			Byp Line No
							Ht (in)	L (ft)	Area (sqft)	L (ft)	W (ft)	So (ft/ft)	W (ft)	Sw (ft/ft)	Sx (ft/ft)	n	Depth (ft)	Spread (ft)	Depth (ft)	Spread (ft)	Depr (in)	
1	D29	7.90	0.00	7.90	0.00	DrGrt	0.0	0.00	2.00	2.00	2.00	Sag	0.10	0.100	0.100	0.013	0.54	12.80	0.54	12.80	0.0	Off
2	D50	0.15	0.00	0.00	0.15	None	0.0	0.83	0.00	0.83	0.83	0.000	0.00	0.000	0.000	0.000	0.00	0.00	0.00	0.00	0.0	Off
3	D30	2.85	0.66	3.51	0.00	Comb	4.0	9.00	6.00	9.00	1.50	Sag	1.50	0.060	0.020	0.013	0.26	9.86	0.26	9.86	0.0	Off
4	D32	1.17	0.41	1.58	0.00	Comb	4.0	3.00	2.00	3.00	1.50	Sag	1.50	0.060	0.020	0.013	0.24	9.14	0.24	9.14	0.0	Off
5	D52	0.98	0.32	0.89	0.41	Comb	4.0	3.00	0.00	3.00	1.50	0.010	1.50	0.060	0.020	0.012	0.19	6.59	0.13	3.75	0.0	4
6	D33	1.17	0.43	1.29	0.32	Comb	4.0	6.00	0.00	6.00	1.50	0.010	1.50	0.060	0.020	0.012	0.20	7.22	0.12	3.21	0.0	5
7	D34	1.50	0.45	1.51	0.43	Comb	4.0	6.00	0.00	6.00	1.50	0.010	1.50	0.060	0.020	0.012	0.22	7.83	0.14	3.86	0.0	6
8	D36	1.32	0.05	0.92	0.45	Comb	4.0	3.00	0.00	3.00	1.50	0.010	1.50	0.060	0.020	0.012	0.19	6.74	0.14	3.92	0.0	7
9	D48	0.44	0.00	0.39	0.05	Comb	4.0	3.00	0.00	3.00	1.50	0.010	1.50	0.060	0.020	0.012	0.14	3.89	0.06	1.06	0.0	8
10	D38	1.11	0.00	0.94	0.17	Comb	4.0	6.00	0.00	6.00	1.50	0.010	1.50	0.060	0.020	0.012	0.18	6.14	0.10	2.00	0.0	11
11	D37	1.60	0.17	1.11	0.66	Comb	4.0	3.00	0.00	3.00	1.50	0.010	1.50	0.060	0.020	0.012	0.21	7.52	0.16	4.81	0.0	3
12	D51	0.19	0.00	0.08	0.12	DrGrt	0.0	0.00	0.00	0.83	0.83	0.040	1.50	0.060	0.010	0.013	0.04	9.70	0.04	9.70	0.0	Off
13	D40	0.09	0.00	0.04	0.05	DrGrt	0.0	0.00	0.00	0.83	0.83	0.040	1.50	0.060	0.010	0.013	0.03	7.70	0.03	7.70	0.0	Off
14	D41	0.66	0.00	0.19	0.46	DrGrt	0.0	0.00	0.00	0.83	0.83	0.040	1.50	0.060	0.010	0.013	0.08	17.70	0.08	17.70	0.0	Off
15	D42	3.03	0.00	3.03	0.00	DrGrt	0.0	0.00	2.00	2.00	2.00	Sag	0.10	0.100	0.100	0.013	0.25	7.03	0.25	7.03	0.0	Off
16	D39	1.22	0.00	0.84	0.38	Comb	4.0	3.00	0.00	3.00	1.50	0.010	1.50	0.060	0.020	0.013	0.19	6.63	0.13	3.72	0.0	Off
17	D44	8.09	0.00	8.09	0.00	DrGrt	0.0	0.00	2.00	2.00	2.00	Sag	0.10	0.100	0.100	0.013	0.57	13.33	0.57	13.33	0.0	Off
18	D56	1.97	0.00	1.97	0.00	DrGrt	0.0	0.00	2.00	2.00	2.00	Sag	0.10	0.100	0.100	0.013	0.19	5.77	0.19	5.77	0.0	Off
19	D53	0.01*	0.00	0.00	0.01	MH	0.0	0.00	0.00	0.00	0.00	Sag	0.00	0.000	0.000	0.013	0.00	0.00	0.00	0.00	0.0	Off
20	D54	0.01*	0.00	0.00	0.01	MH	0.0	0.00	0.00	0.00	0.00	Sag	0.00	0.000	0.000	0.013	0.00	0.00	0.00	0.00	0.0	Off
21	D55	4.41	0.00	4.41	0.00	DrGrt	0.0	0.00	2.00	2.00	2.00	Sag	0.10	0.100	0.100	0.013	0.32	8.46	0.32	8.46	0.0	Off

Project File: REVISED HAWKS POINTE PLAT 6 .stm

Number of lines: 21

Run Date: 7/10/2024

NOTES: Inlet N-Values = 0.016; Intensity = 182.24 / (Inlet time + 21.30) ^ 0.99; Return period = 10 Yrs. ; * Indicates Known Q added. All curb inlets are throat.

Line Profile (Line 1) - P29



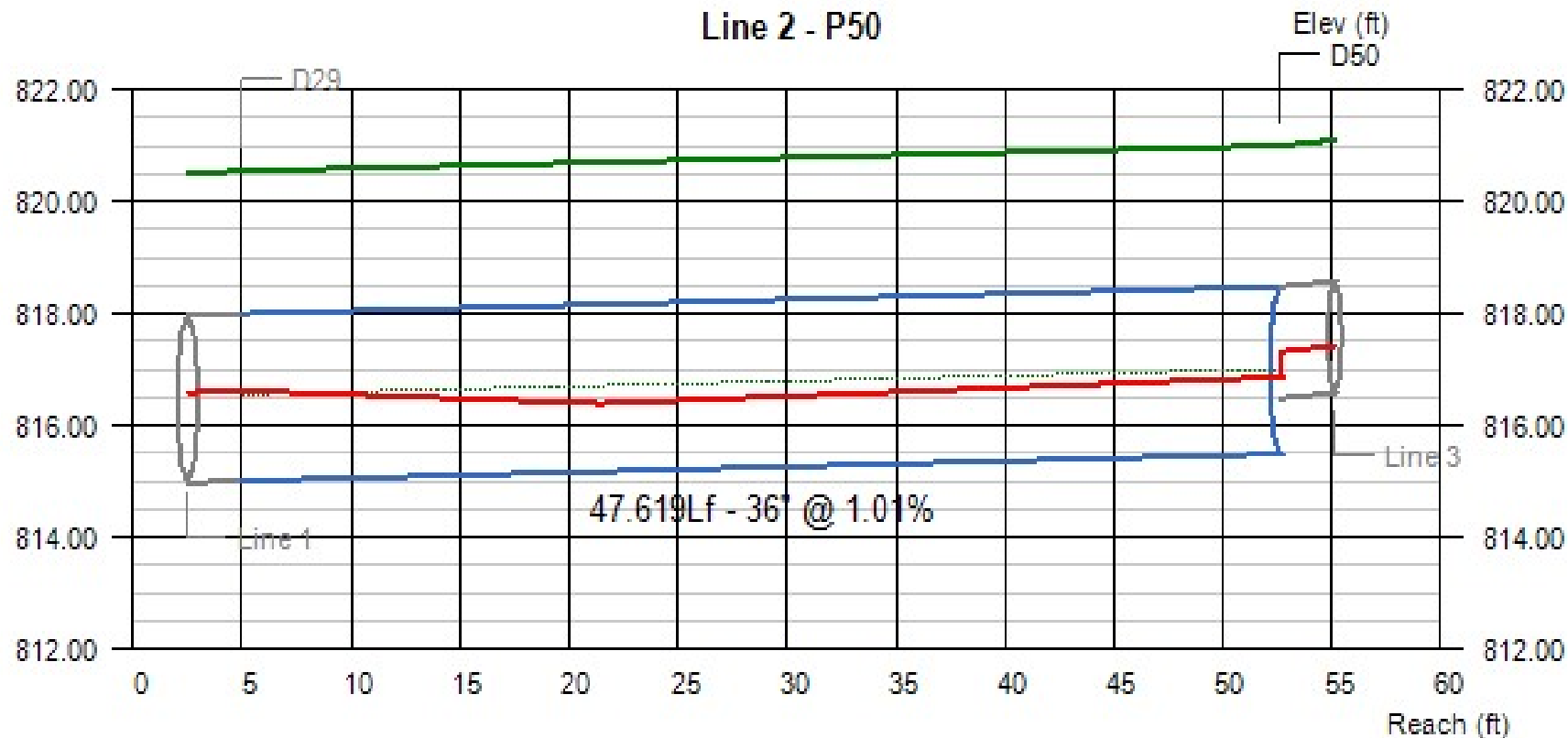
Line #	Q (cfs)	Invert Elevation		Depth of Flow			Hydraulic Grade Line			Velocity		Cover	
		Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Hw (ft)	Dn (ft)	Up (ft)	Jnct (ft)	Dn (ft/s)	Up (ft/s)	Dn (ft)	Up (ft)
1	25.20	812.00	815.00	1.19	1.62	1.62	813.19	816.62	816.62	9.64	6.48	1.42	2.55

Project File:

No. Lines: 21

Run Date: 7/10/20

Line Profile (Line 2) - P50



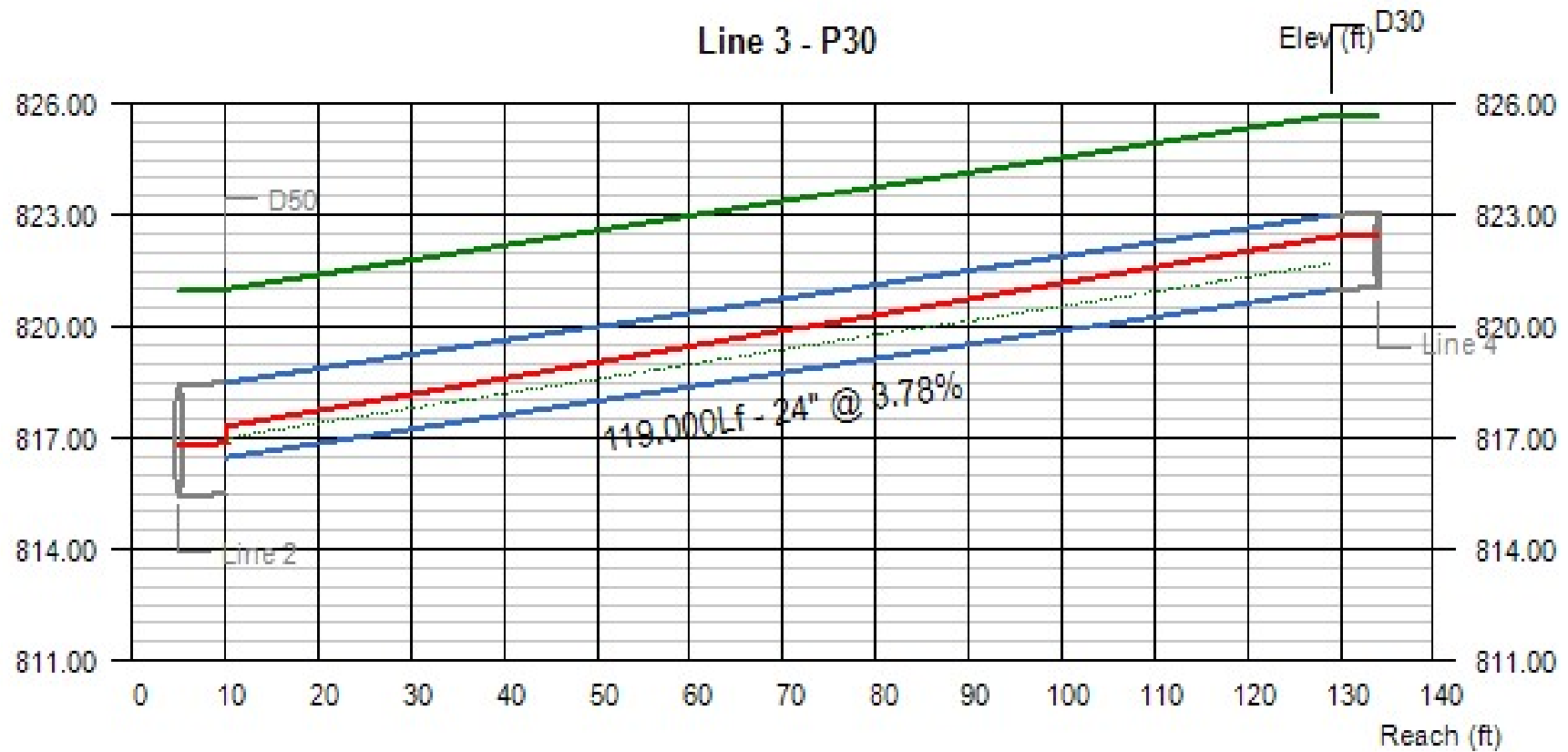
Line #	Q (cfs)	Invert Elevation		Depth of Flow			Hydraulic Grade Line			Velocity		Cover	
		Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Hw (ft)	Dn (ft)	Up (ft)	Jnct (ft)	Dn (ft/s)	Up (ft/s)	Dn (ft)	Up (ft)
2	18.60	815.00	815.48	1.62	1.38	1.38	816.62	816.86 j	816.86	4.78	5.85	2.55	2.52

Project File:

No. Lines: 21

Run Date: 7/10/20

Line Profile (Line 3) - P30



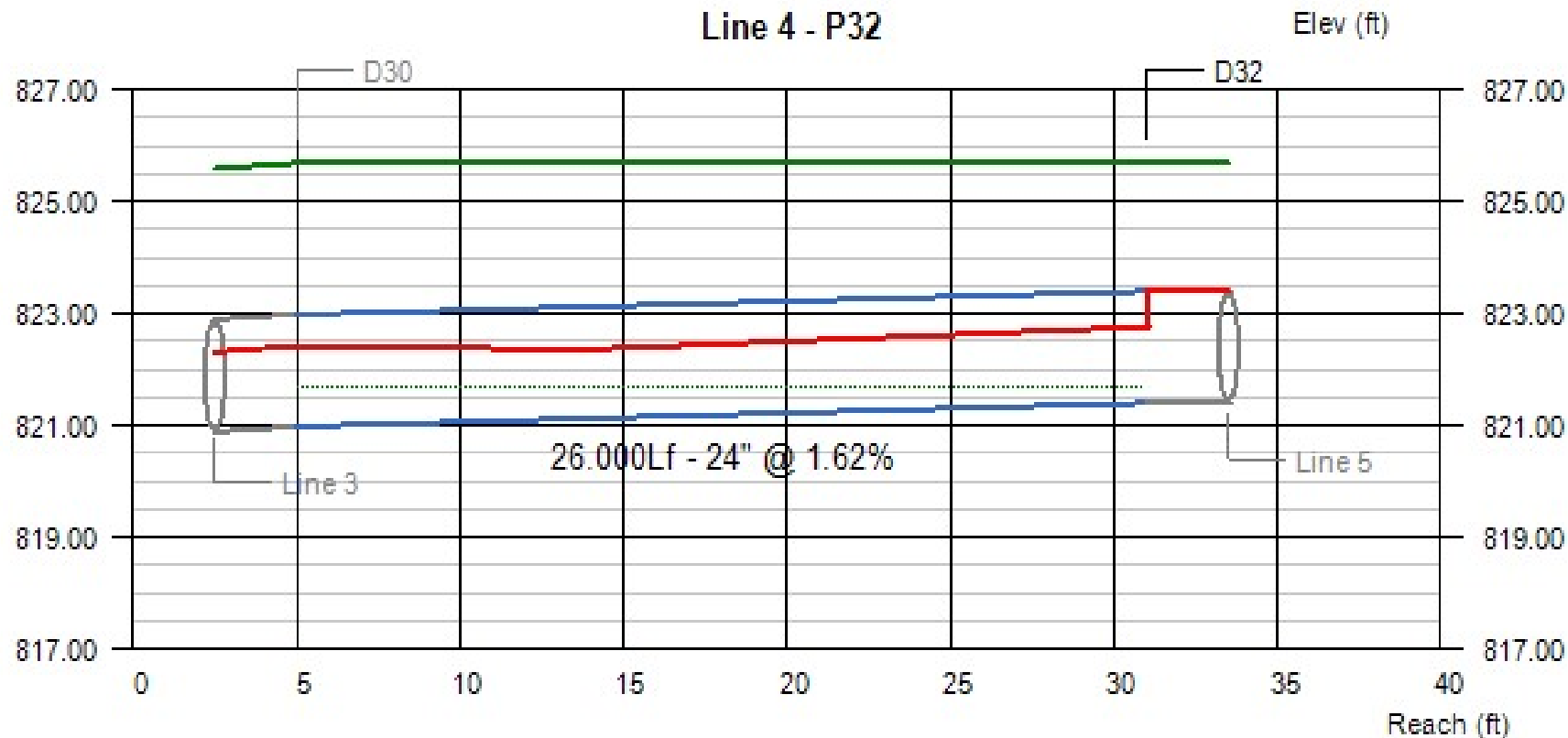
Line #	Q (cfs)	Invert Elevation		Depth of Flow			Hydraulic Grade Line			Velocity		Cover	
		Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Hw (ft)	Dn (ft)	Up (ft)	Jnct (ft)	Dn (ft/s)	Up (ft/s)	Dn (ft)	Up (ft)
3	15.81	816.48	820.98	0.83	1.43	1.43	817.31	822.41	822.41	12.85	6.57	2.52	2.71

Project File:

No. Lines: 21

Run Date: 7/10/20

Line Profile (Line 4) - P32



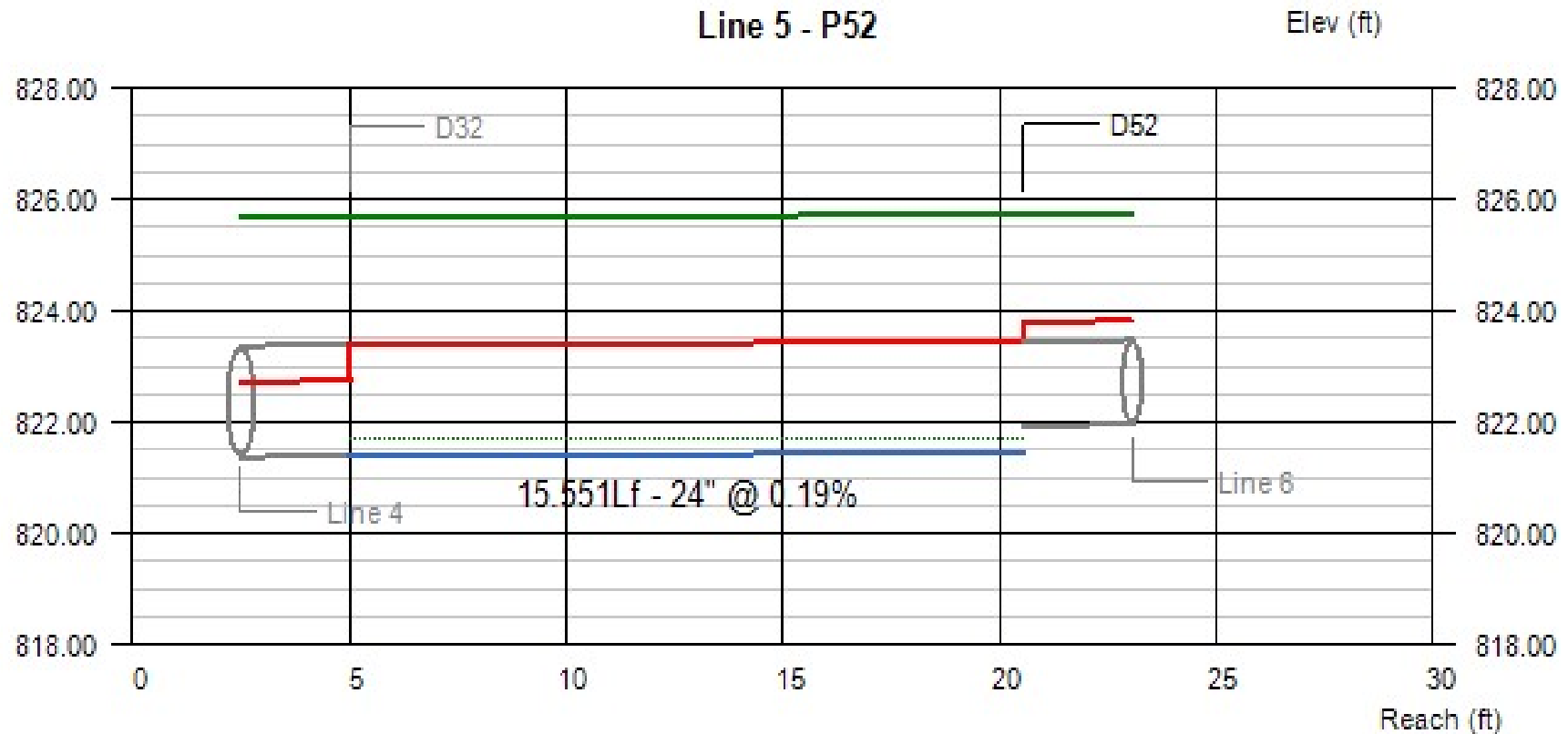
Line #	Q (cfs)	Invert Elevation		Depth of Flow			Hydraulic Grade Line			Velocity		Cover	
		Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Hw (ft)	Dn (ft)	Up (ft)	Jnct (ft)	Dn (ft/s)	Up (ft/s)	Dn (ft)	Up (ft)
4	14.04	820.98	821.40	1.43	1.35	1.35	822.41	822.75 j	822.75	5.83	6.23	2.71	2.29

Project File:

No. Lines: 21

Run Date: 7/10/20

Line Profile (Line 5) - P52



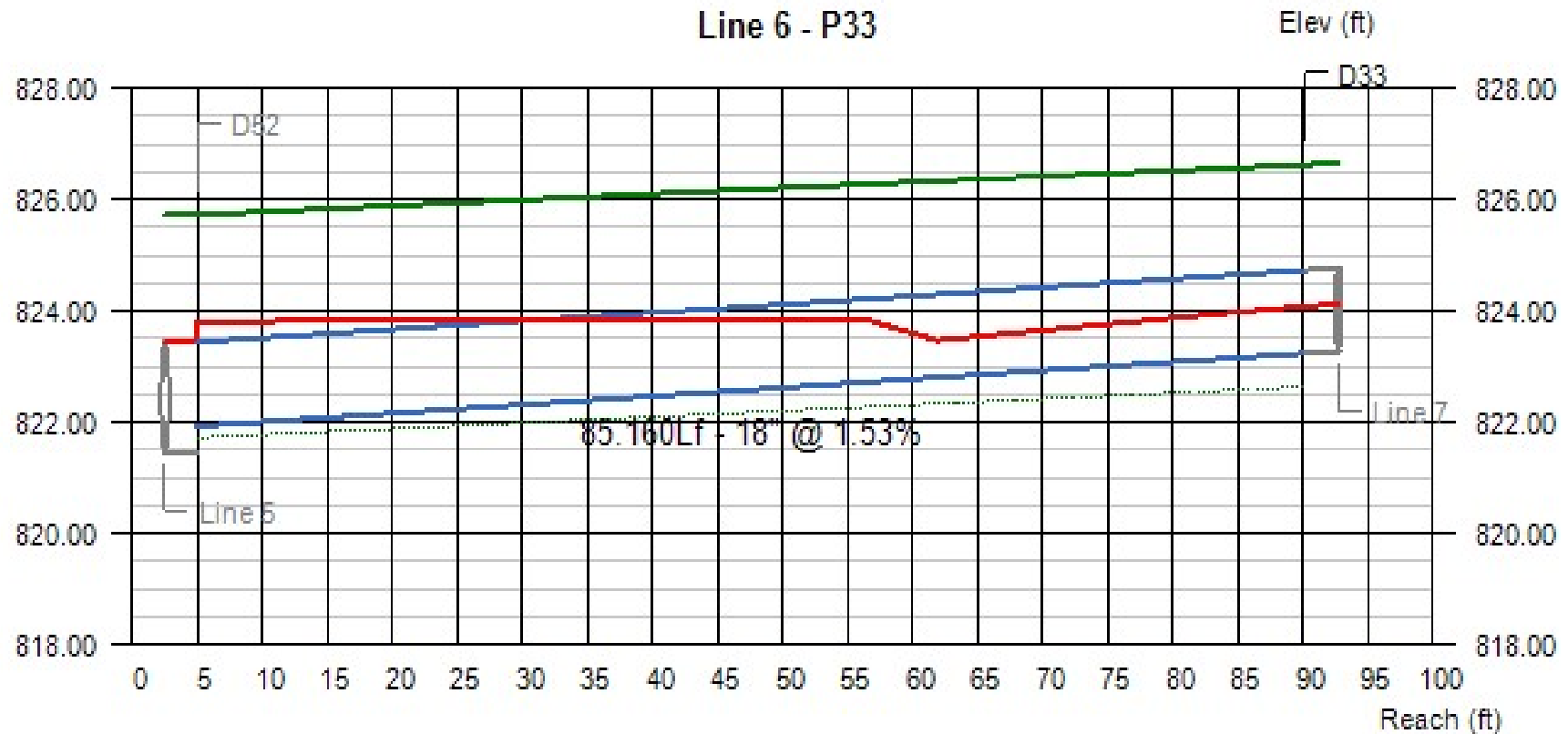
Line #	Q (cfs)	Invert Elevation		Depth of Flow			Hydraulic Grade Line			Velocity		Cover	
		Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Hw (ft)	Dn (ft)	Up (ft)	Jnct (ft)	Dn (ft/s)	Up (ft/s)	Dn (ft)	Up (ft)
5	12.56	821.40	821.43	2.00	2.00	2.37	823.40	823.43	823.80	4.00	4.00	2.29	2.29

Project File:

No. Lines: 21

Run Date: 7/10/20

Line Profile (Line 6) - P33



Line #	Q (cfs)	Invert Elevation		Depth of Flow			Hydraulic Grade Line			Velocity		Cover	
		Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Hw (ft)	Dn (ft)	Up (ft)	Jnct (ft)	Dn (ft/s)	Up (ft/s)	Dn (ft)	Up (ft)
6	4.97	821.93	823.23	1.50	0.86	0.86	823.80	824.09 j	824.09	2.81	4.77	2.29	1.90

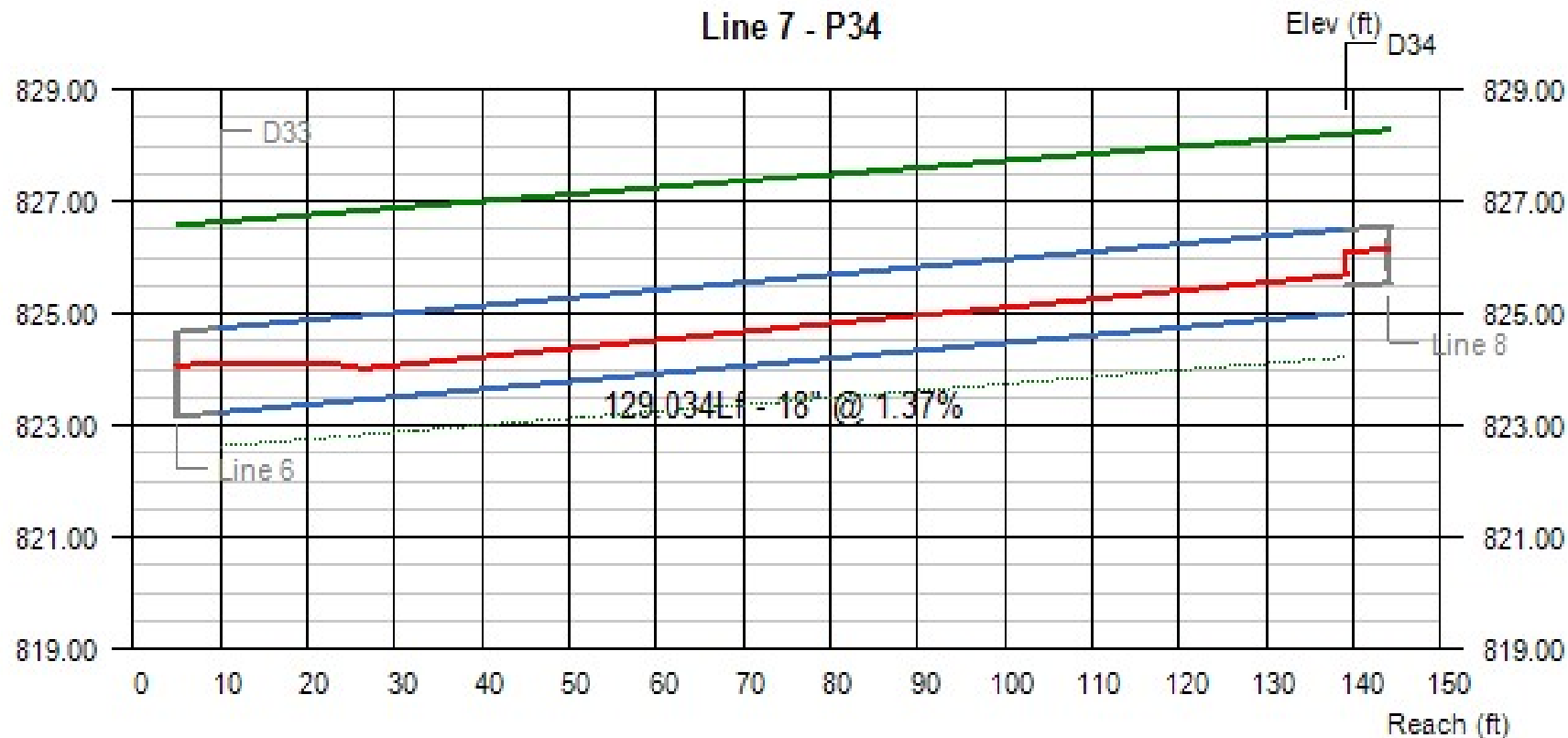
Project File:

No. Lines: 21

Run Date: 7/10/20

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Line Profile (Line 7) - P34



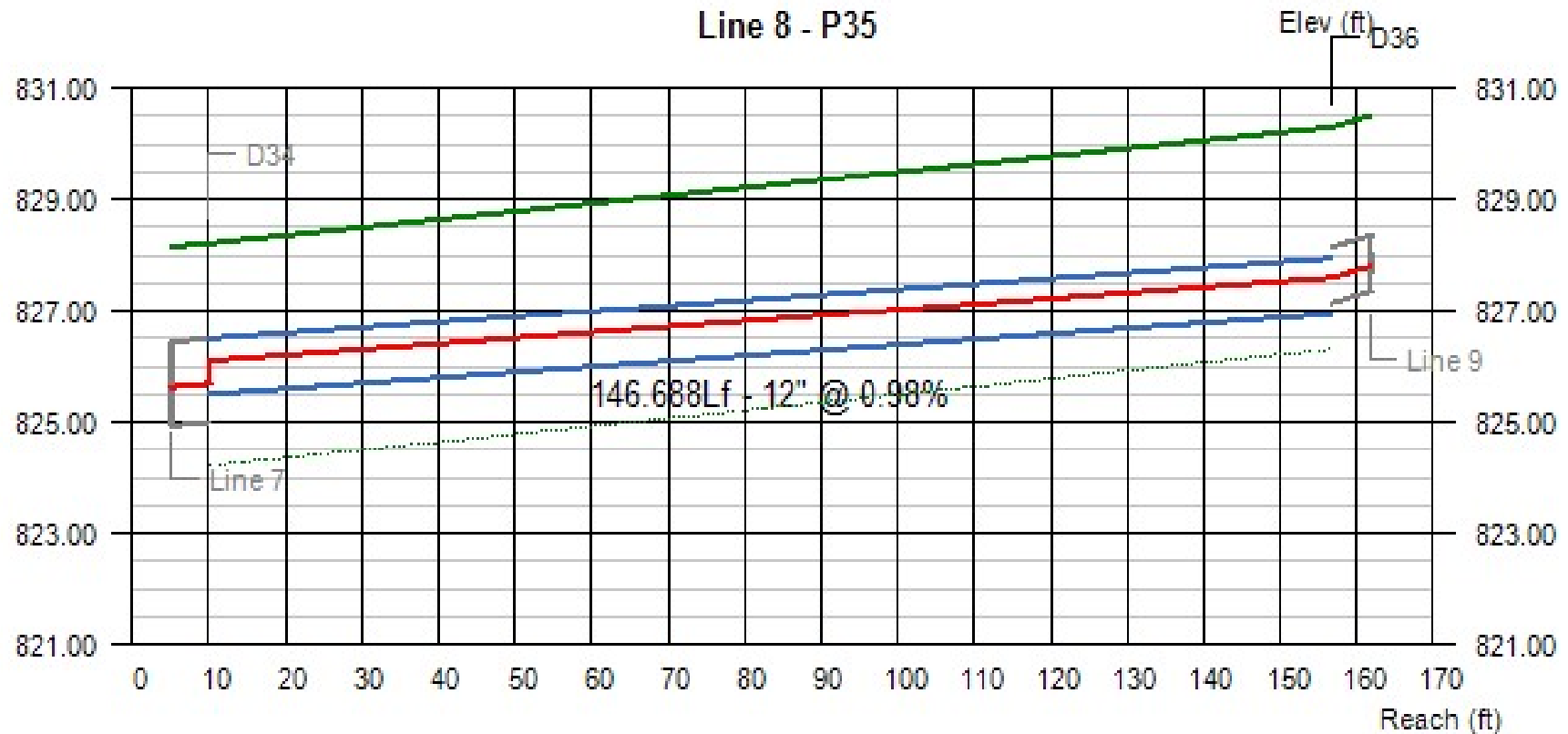
Line #	Q (cfs)	Invert Elevation		Depth of Flow			Hydraulic Grade Line			Velocity		Cover	
		Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Hw (ft)	Dn (ft)	Up (ft)	Jct (ft)	Dn (ft/s)	Up (ft/s)	Dn (ft)	Up (ft)
7	3.29	823.23	825.00	0.86	0.69	0.69	824.09	825.69 j	825.69	3.15	4.14	1.90	1.71

Project File:

No. Lines: 21

Run Date: 7/10/20

Line Profile (Line 8) - P35



Line #	Q (cfs)	Invert Elevation		Depth of Flow			Hydraulic Grade Line			Velocity		Cover	
		Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Hw (ft)	Dn (ft)	Up (ft)	Jnct (ft)	Dn (ft/s)	Up (ft/s)	Dn (ft)	Up (ft)
8	2.35	825.50	826.94	0.60	0.66	0.66	826.10	827.60	827.60	4.81	4.31	1.71	2.36

Project File:

No. Lines: 21

Run Date: 7/10/20

120

Line Profile (Line 9) - P48



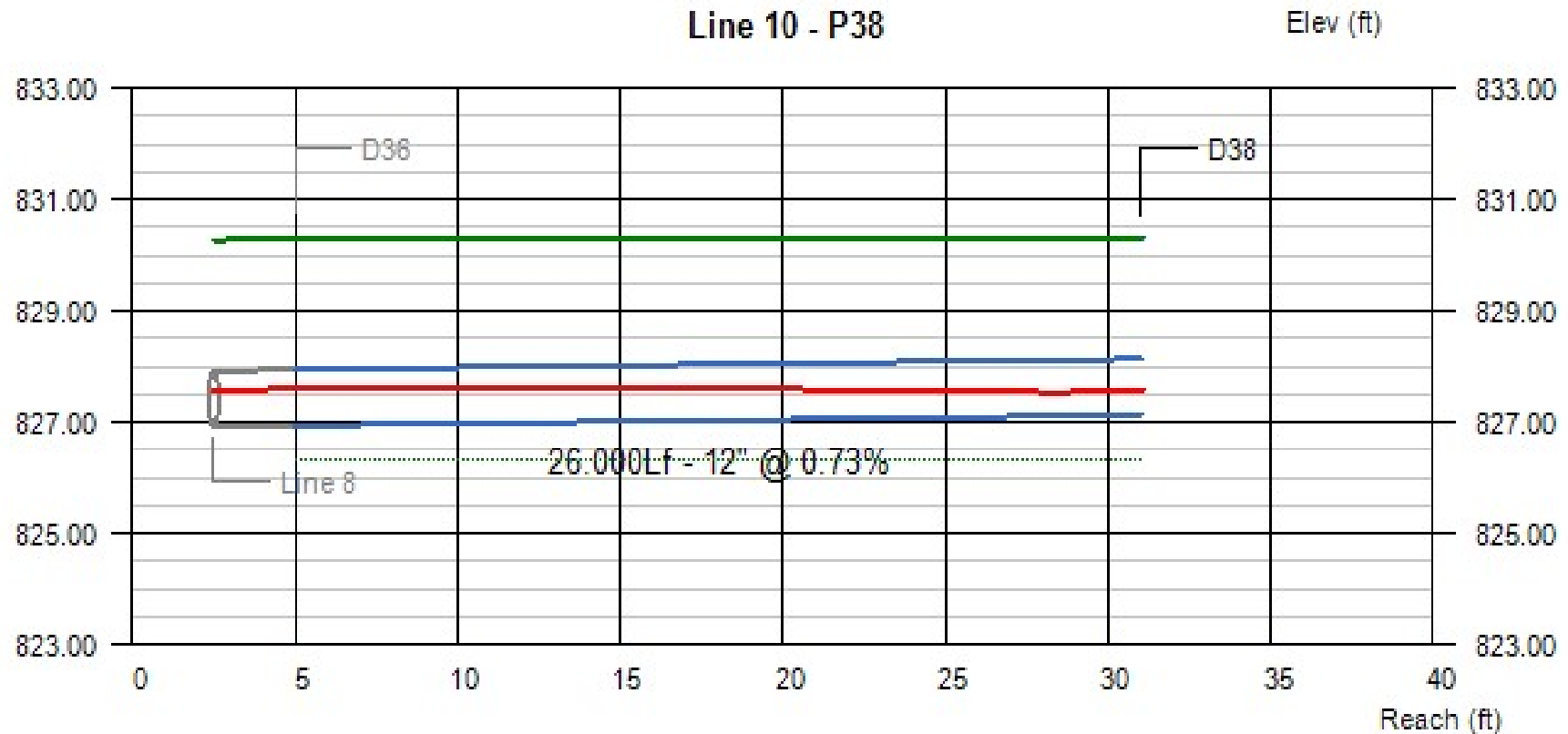
Line #	Q (cfs)	Invert Elevation		Depth of Flow			Hydraulic Grade Line			Velocity		Cover	
		Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Hw (ft)	Dn (ft)	Up (ft)	Jnct (ft)	Dn (ft/s)	Up (ft/s)	Dn (ft)	Up (ft)
9	0.44	827.14	831.80	0.46	0.27	0.27	827.60	832.07 j	832.07	1.26	2.51	2.16	2.00

Project File:

No. Lines: 21

Run Date: 7/10/20

Line Profile (Line 10) - P38



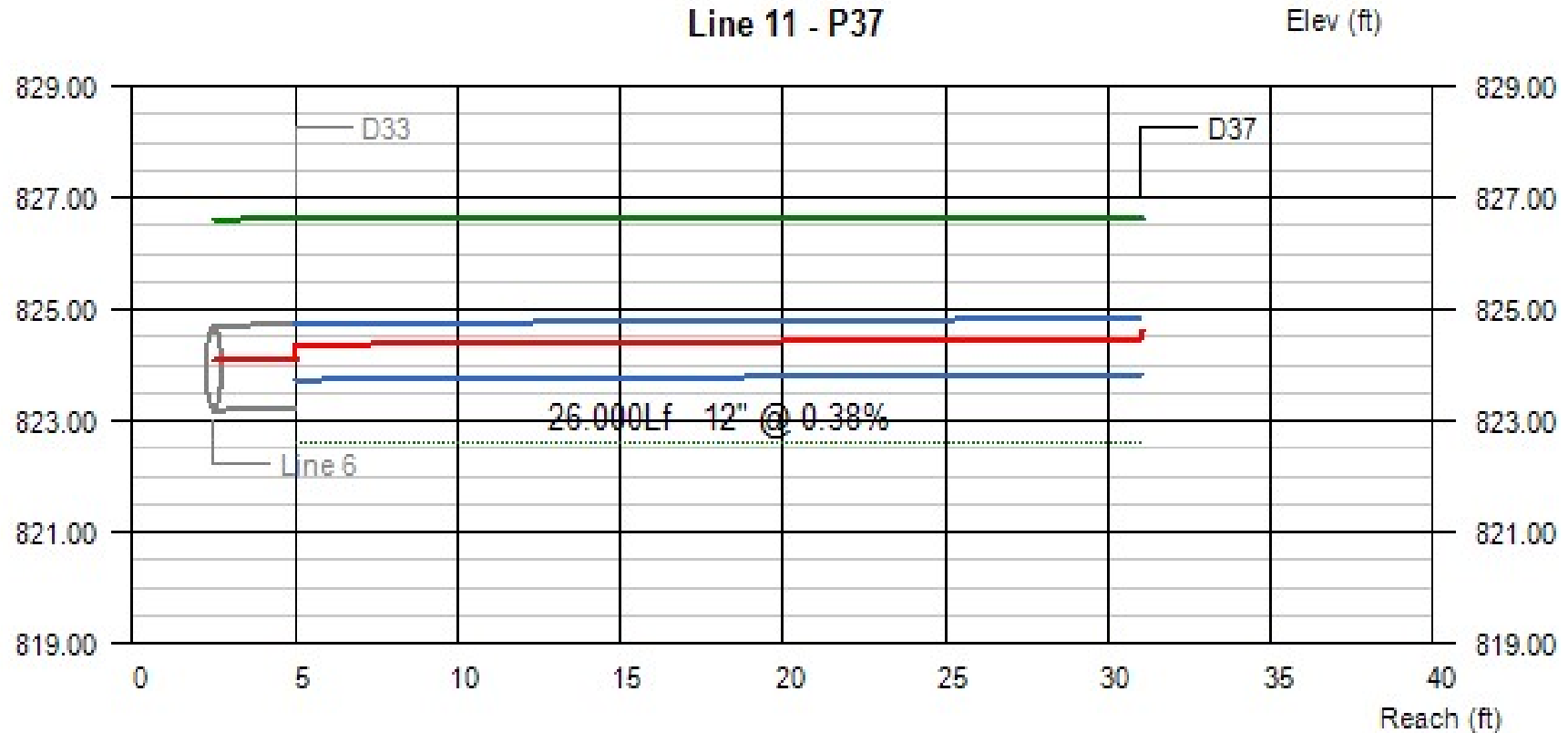
Line #	Q (cfs)	Invert Elevation		Depth of Flow			Hydraulic Grade Line			Velocity		Cover	
		Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Hw (ft)	Dn (ft)	Up (ft)	Jnct (ft)	Dn (ft/s)	Up (ft/s)	Dn (ft)	Up (ft)
10	1.11	826.94	827.13	0.66	0.44	0.44	827.60	827.57 j	827.57	2.03	3.30	2.36	2.17

Project File:

No. Lines: 21

Run Date: 7/10/20

Line Profile (Line 11) - P37



Line #	Q (cfs)	Invert Elevation		Depth of Flow			Hydraulic Grade Line			Velocity		Cover	
		Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Hw (ft)	Dn (ft)	Up (ft)	Jnct (ft)	Dn (ft/s)	Up (ft/s)	Dn (ft)	Up (ft)
11	1.60	823.73	823.83	0.63	0.63	0.78	824.36	824.46	824.61	3.06	3.07	1.90	1.80

Project File:

No. Lines: 21

Run Date: 7/10/20

123

Line Profile (Line 12) - P51



Line #	Q (cfs)	Invert Elevation		Depth of Flow			Hydraulic Grade Line			Velocity		Cover	
		Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Hw (ft)	Dn (ft)	Up (ft)	Jnct (ft)	Dn (ft/s)	Up (ft/s)	Dn (ft)	Up (ft)
12	3.67	816.98	821.37	0.52	0.73	0.73	817.50	822.10	822.10	6.80	4.29	2.52	3.50

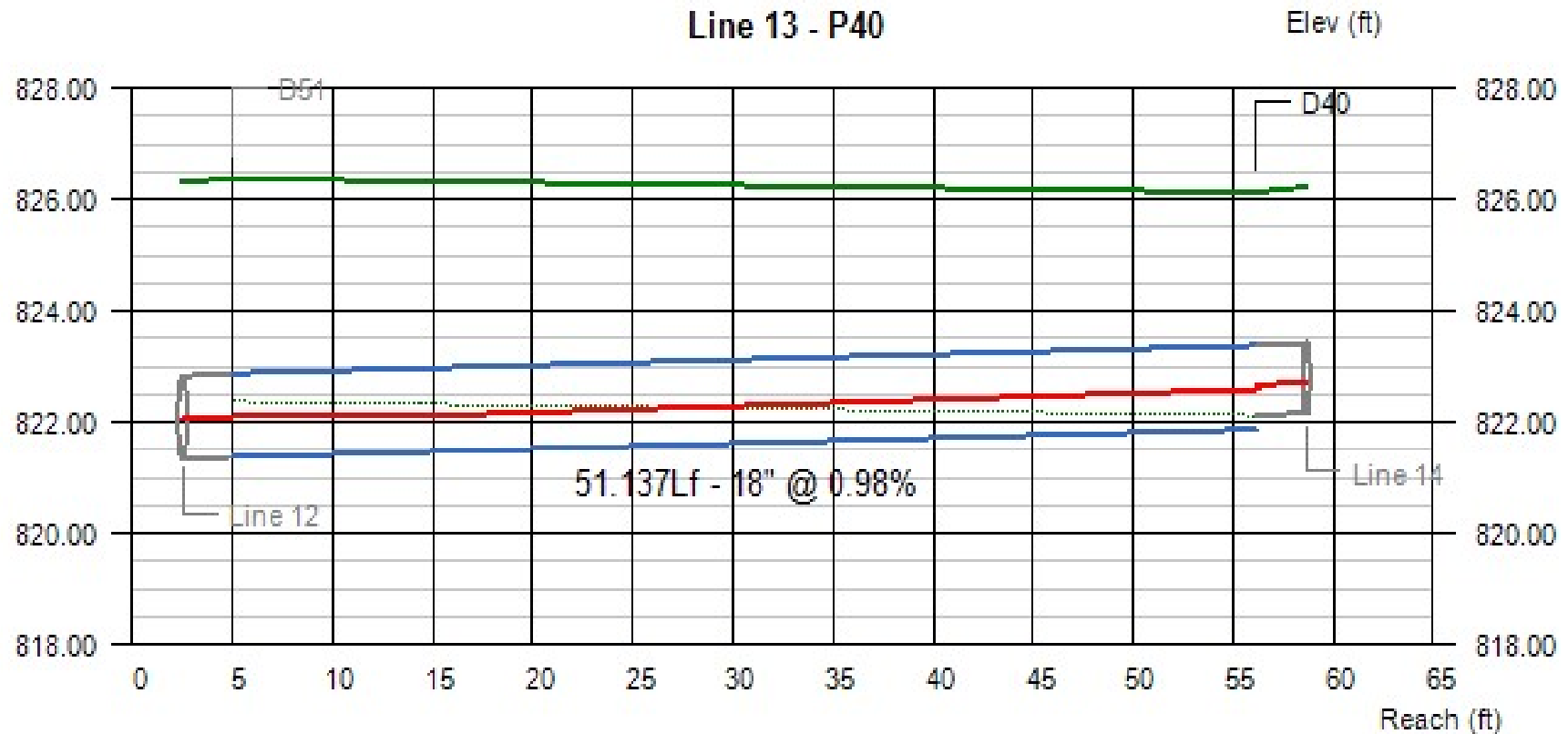
Project File:

No. Lines: 21

Run Date: 7/10/20

124

Line Profile (Line 13) - P40



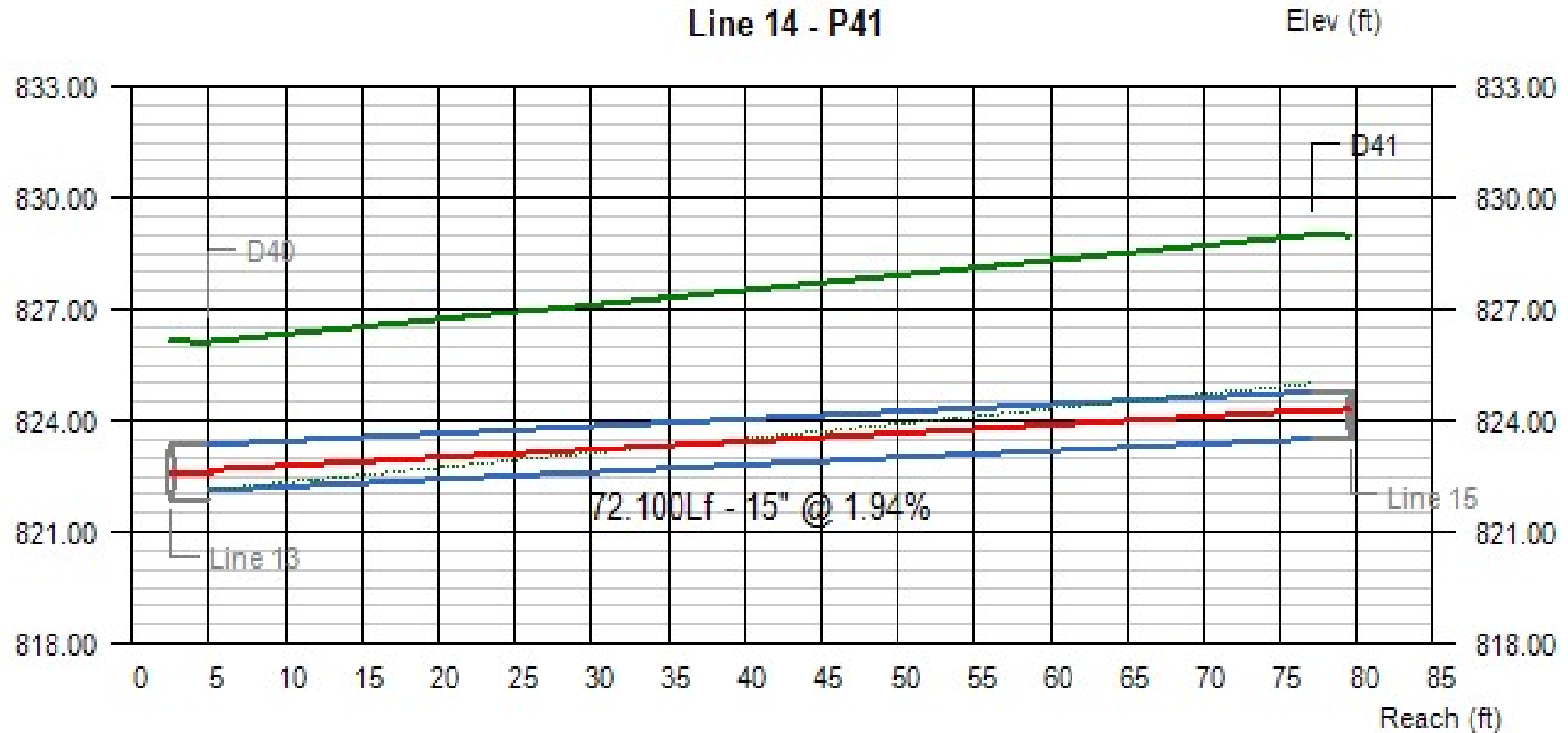
Line #	Q (cfs)	Invert Elevation		Depth of Flow			Hydraulic Grade Line			Velocity		Cover	
		Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Hw (ft)	Dn (ft)	Up (ft)	Jnct (ft)	Dn (ft/s)	Up (ft/s)	Dn (ft)	Up (ft)
13	3.56	821.37	821.87	0.73	0.72	0.72	822.10	822.59 j	822.59	4.16	4.25	3.50	2.75

Project File:

No. Lines: 21

Run Date: 7/10/20

Line Profile (Line 14) - P41



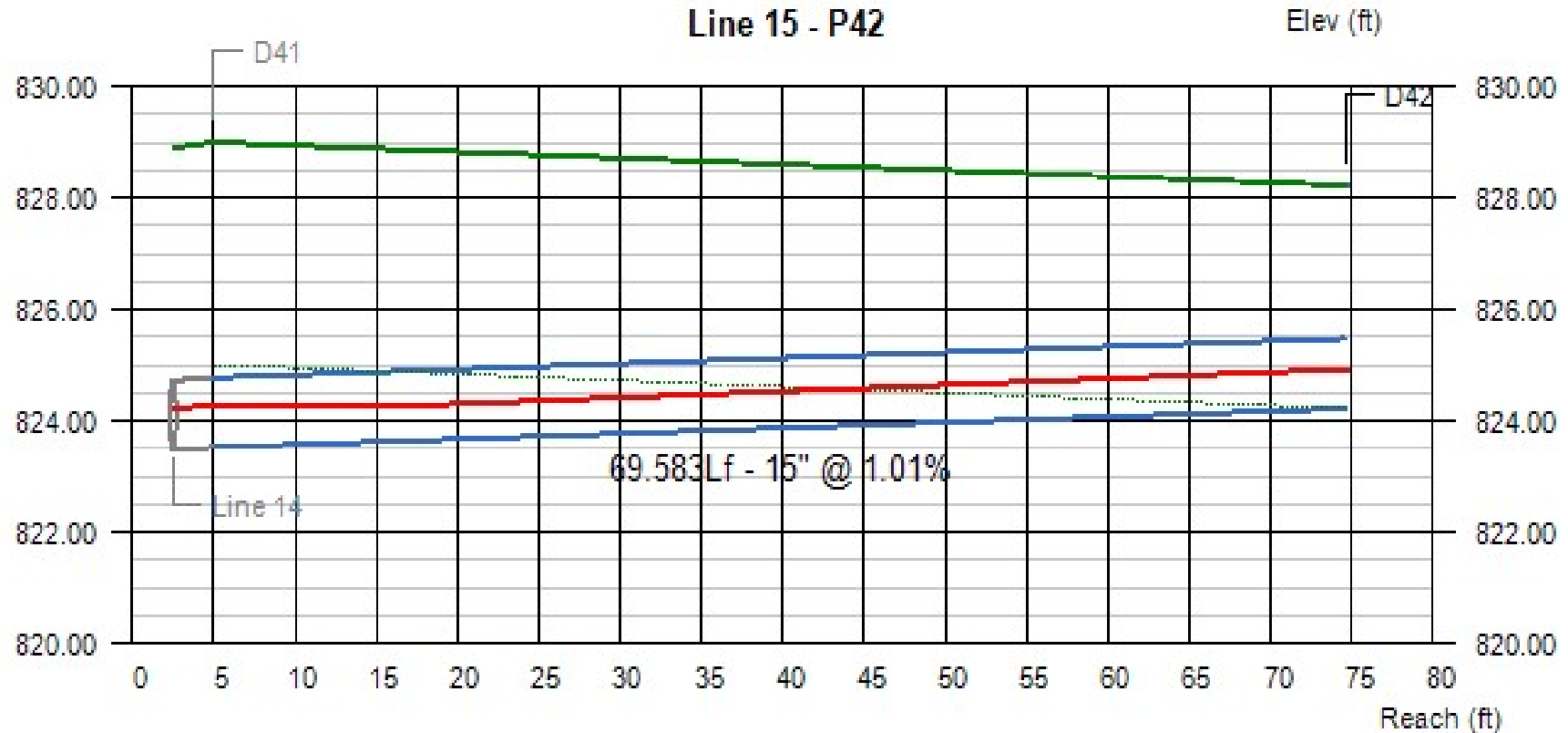
Line #	Q (cfs)	Invert Elevation		Depth of Flow			Hydraulic Grade Line			Velocity		Cover	
		Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Hw (ft)	Dn (ft)	Up (ft)	Jnct (ft)	Dn (ft/s)	Up (ft/s)	Dn (ft)	Up (ft)
14	3.53	822.12	823.52	0.54	0.76	0.76	822.66	824.28	824.28	6.89	4.54	2.75	4.23

Project File:

No. Lines: 21

Run Date: 7/10/20

Line Profile (Line 15) - P42



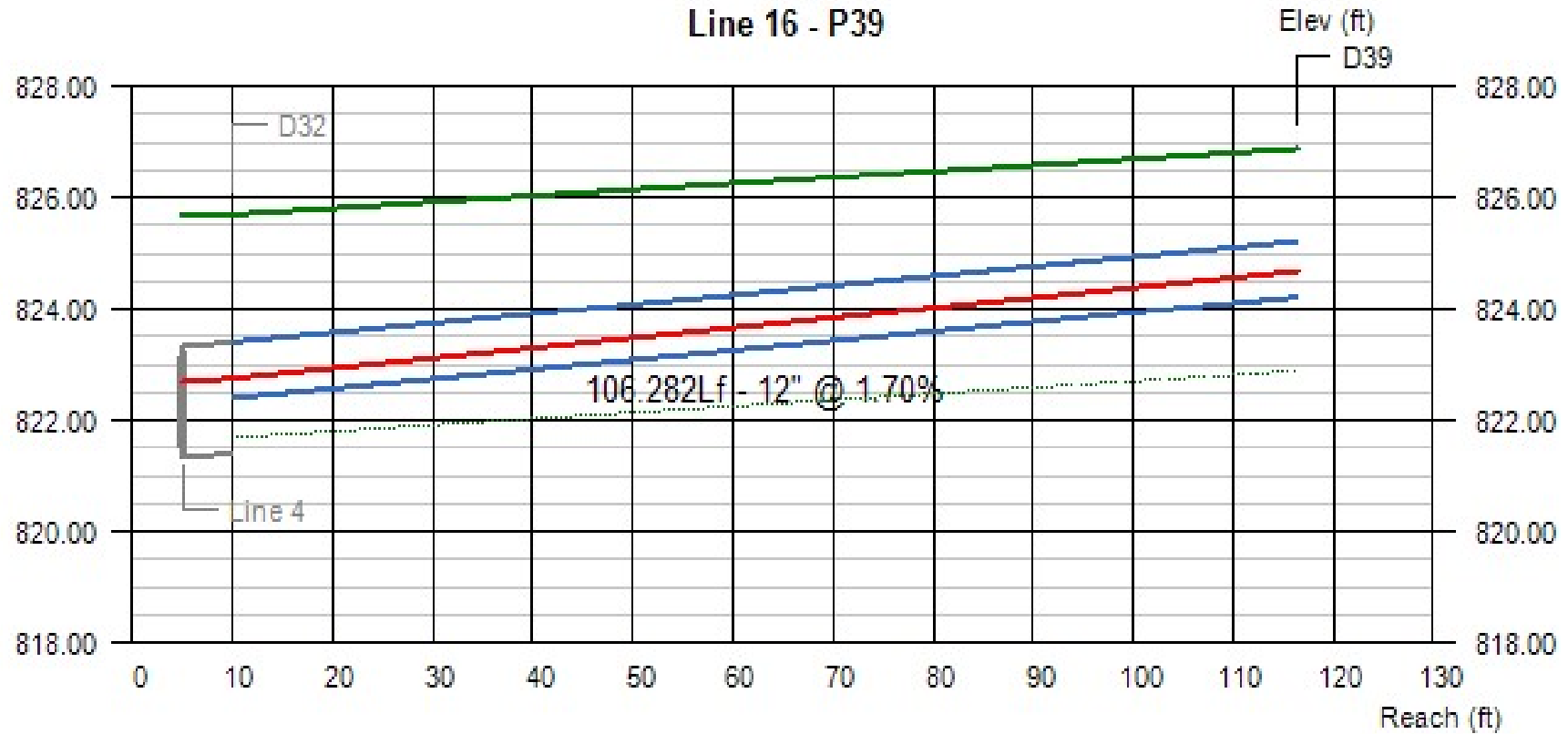
Line #	Q (cfs)	Invert Elevation		Depth of Flow			Hydraulic Grade Line			Velocity		Cover	
		Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Hw (ft)	Dn (ft)	Up (ft)	Jnct (ft)	Dn (ft/s)	Up (ft/s)	Dn (ft)	Up (ft)
15	3.03	823.52	824.22	0.76	0.70	0.70	824.28	824.92 j	824.92	3.89	4.29	4.23	2.75

Project File:

No. Lines: 21

Run Date: 7/10/20

Line Profile (Line 16) - P39



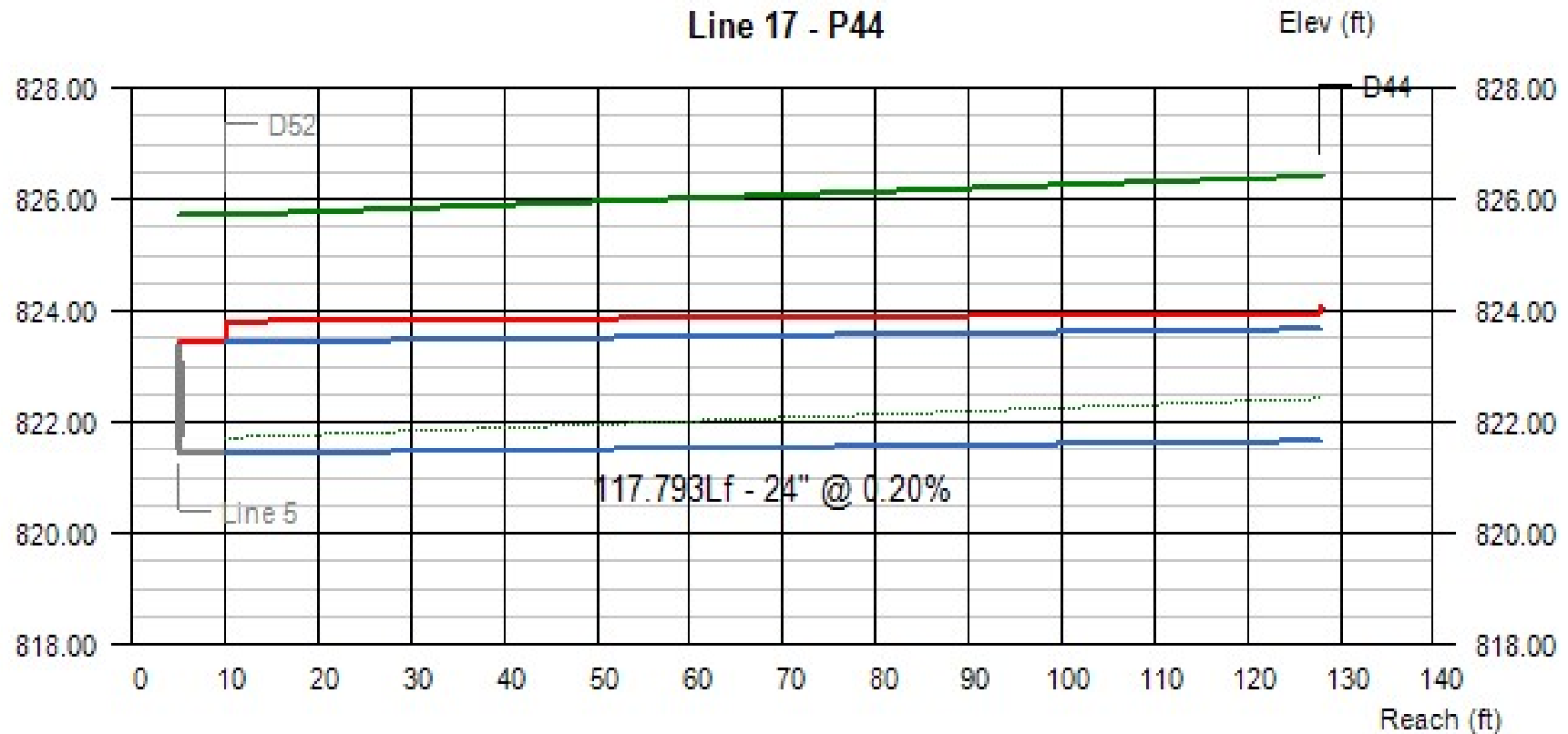
Line #	Q (cfs)	Invert Elevation		Depth of Flow			Hydraulic Grade Line			Velocity		Cover	
		Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Hw (ft)	Dn (ft)	Up (ft)	Jnct (ft)	Dn (ft/s)	Up (ft/s)	Dn (ft)	Up (ft)
16	1.22	822.40	824.21	0.35	0.46	0.46	822.75	824.67	824.67	4.98	3.40	2.29	1.67

Project File:

No. Lines: 21

Run Date: 7/10/20

Line Profile (Line 17) - P44



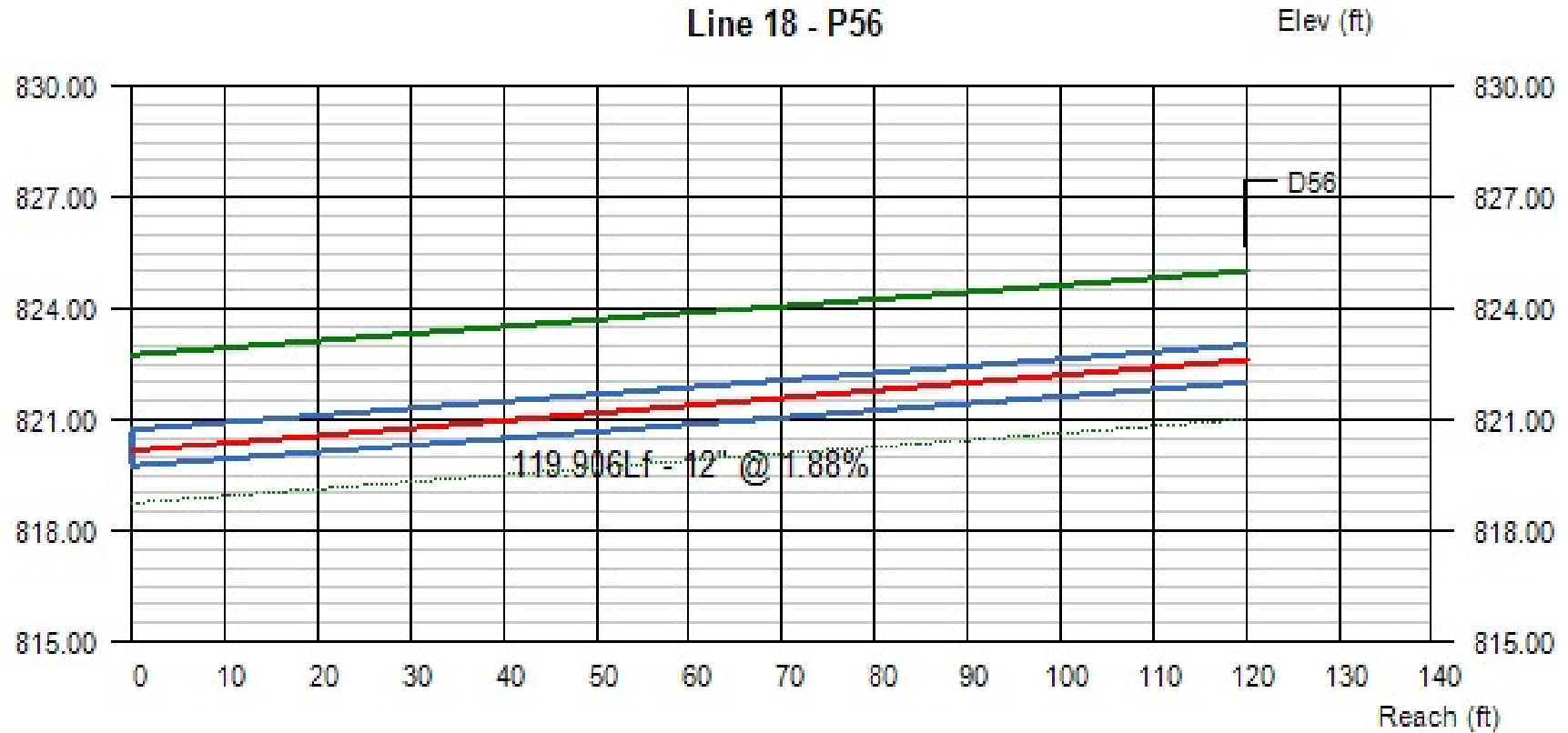
Line #	Q (cfs)	Invert Elevation		Depth of Flow			Hydraulic Grade Line			Velocity		Cover	
		Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Hw (ft)	Dn (ft)	Up (ft)	Jnct (ft)	Dn (ft/s)	Up (ft/s)	Dn (ft)	Up (ft)
17	8.09	821.43	821.67	2.00	2.00	2.39	823.80	823.95	824.06	2.58	2.57	2.29	2.75

Project File:

No. Lines: 21

Run Date: 7/10/20

Line Profile (Line 18) - P56



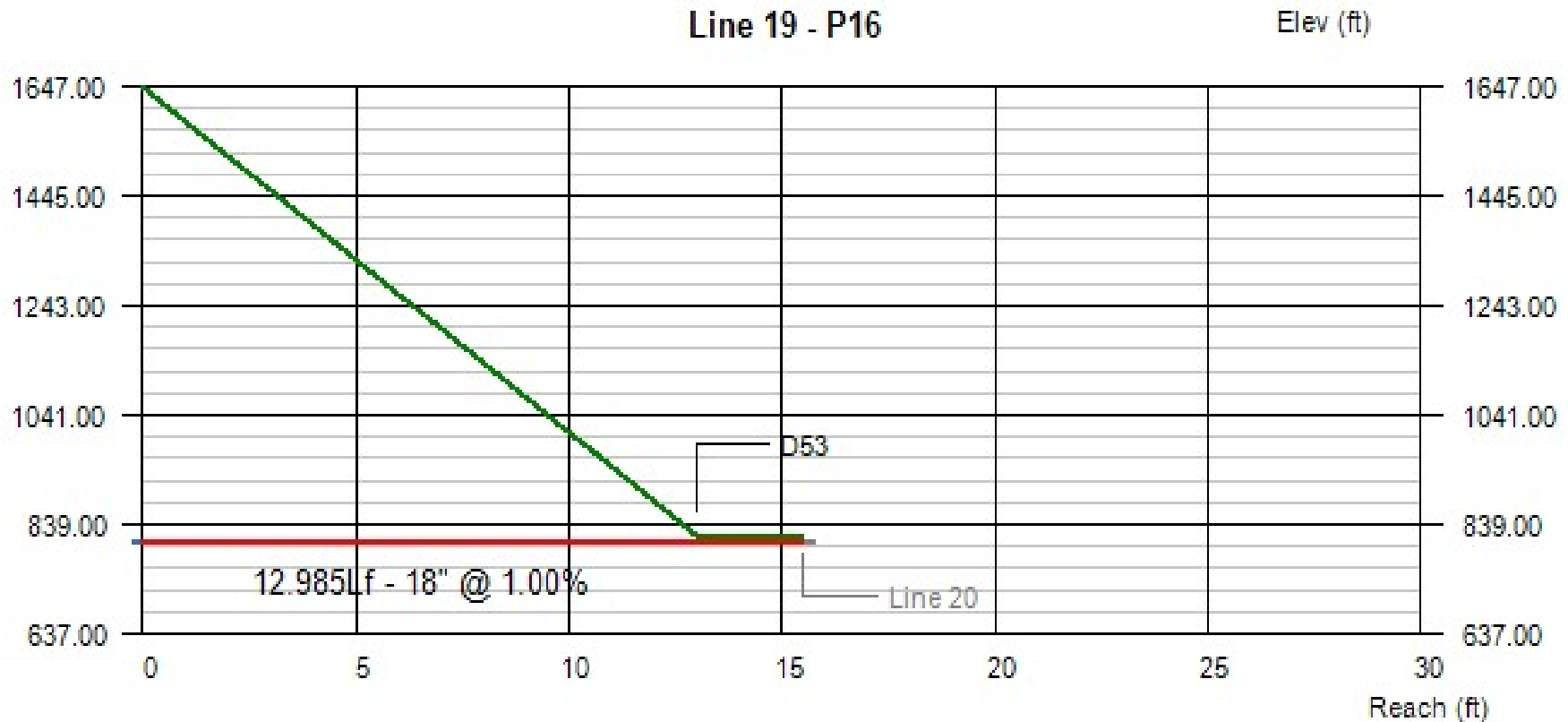
Line #	Q (cfs)	Invert Elevation		Depth of Flow			Hydraulic Grade Line			Velocity		Cover	
		Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Hw (ft)	Dn (ft)	Up (ft)	Jct (ft)	Dn (ft/s)	Up (ft/s)	Dn (ft)	Up (ft)
18	1.97	819.74	822.00	0.42	0.60	0.60	820.16	822.60	822.60	6.25	4.02	2.00	2.01

Project File:

No. Lines: 21

Run Date: 7/10/20

Line Profile (Line 19) - P16



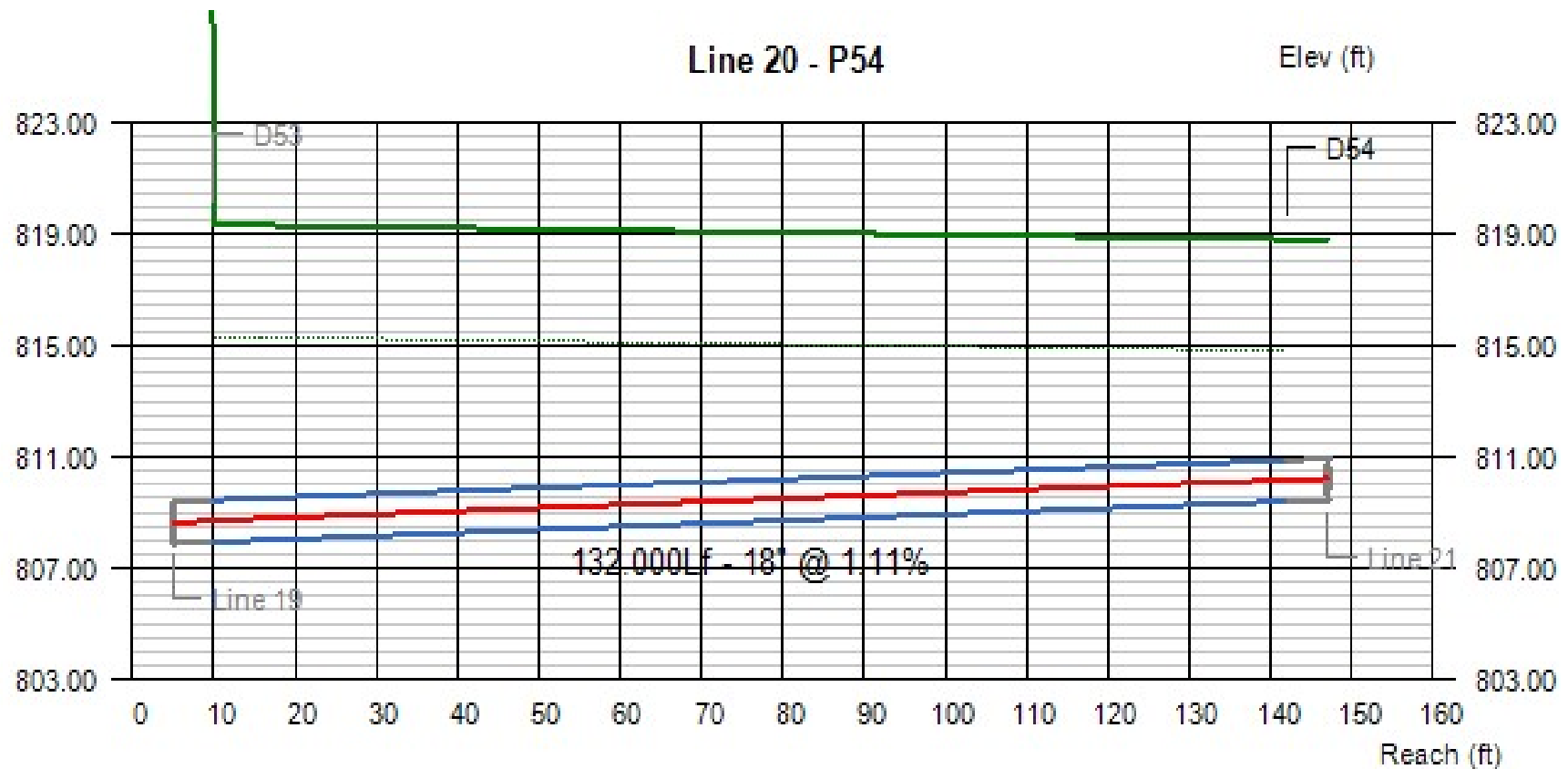
Line #	Q (cfs)	Invert Elevation		Depth of Flow			Hydraulic Grade Line			Velocity		Cover	
		Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Hw (ft)	Dn (ft)	Up (ft)	Jnct (ft)	Dn (ft/s)	Up (ft/s)	Dn (ft)	Up (ft)
19	4.13	807.80	807.93	0.65	0.78	0.78	808.45	808.71	808.71	5.59	4.46	837.00	9.90

Project File:

No. Lines: 21

Run Date: 7/10/20

Line Profile (Line 20) - P54



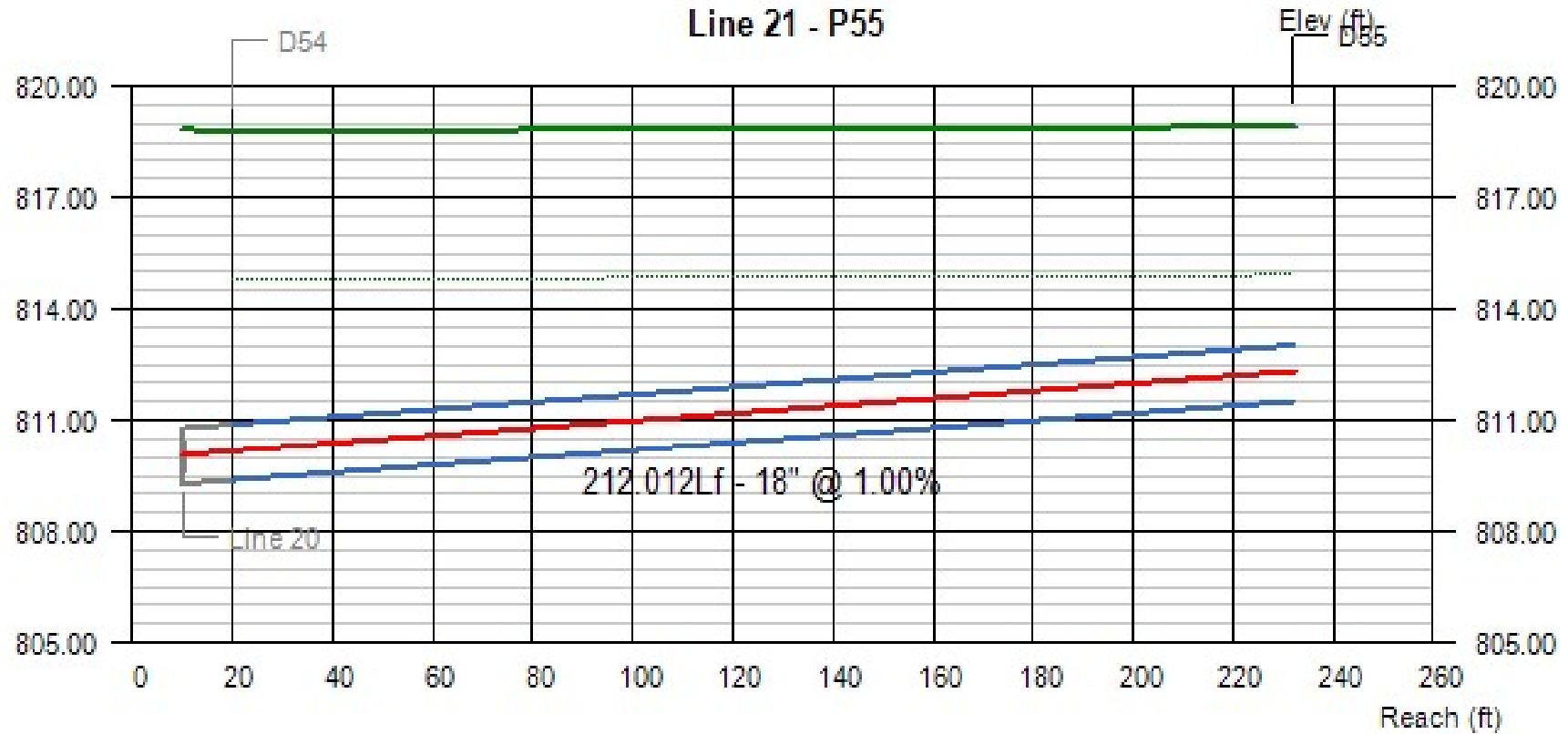
Line #	Q (cfs)	Invert Elevation		Depth of Flow			Hydraulic Grade Line			Velocity		Cover	
		Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Hw (ft)	Dn (ft)	Up (ft)	Jct (ft)	Dn (ft/s)	Up (ft/s)	Dn (ft)	Up (ft)
20	4.23	807.93	809.39	0.78	0.79	0.79	808.71	810.18	810.18	4.58	4.50	9.90	7.91

Project File:

No. Lines: 21

Run Date: 7/10/20

Line Profile (Line 21) - P55



Line #	Q (cfs)	Invert Elevation		Depth of Flow			Hydraulic Grade Line			Velocity		Cover	
		Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Hw (ft)	Dn (ft)	Up (ft)	Jnct (ft)	Dn (ft/s)	Up (ft/s)	Dn (ft)	Up (ft)
21	4.41	809.39	811.51	0.79	0.81	0.81	810.18	812.32	812.32	4.69	4.57	7.91	5.91

Project File:

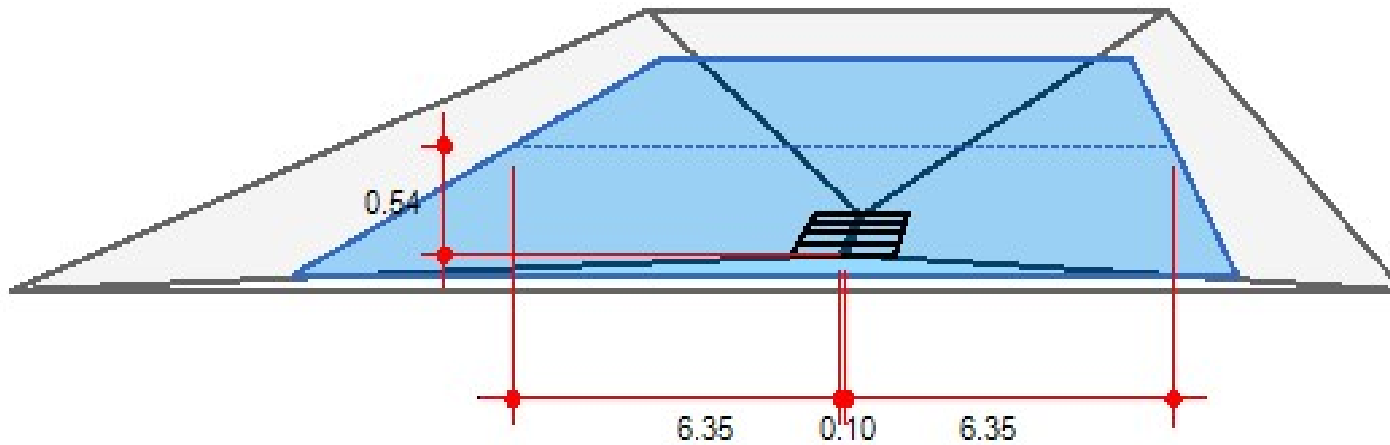
No. Lines: 21

Run Date: 7/10/20

Inlet Section (Line 1 - Drop Grate Inlet) - D29

All dimensions in feet

Line 1 - Drop Grate Inlet in Sag - D29



Line #	Q				Inlet			Gutter				Depth		Spread		Byp
	Catch (cfs)	Carry (cfs)	Capt (cfs)	Byp (cfs)	Length (ft)	Depr (in)	Area (sqft)	Width (ft)	Slope (ft/ft)	Sw (ft/ft)	Sx (ft/ft)	Gutter (ft)	Inlet (ft)	Gutter (ft)	Inlet (ft)	Line (ft)
1	7.90	0.00	7.90	0.00	2.00	....	2.00	0.10	Sag	0.100	0.100	0.54	12.80	n/a	n/a	Sag

Project File:

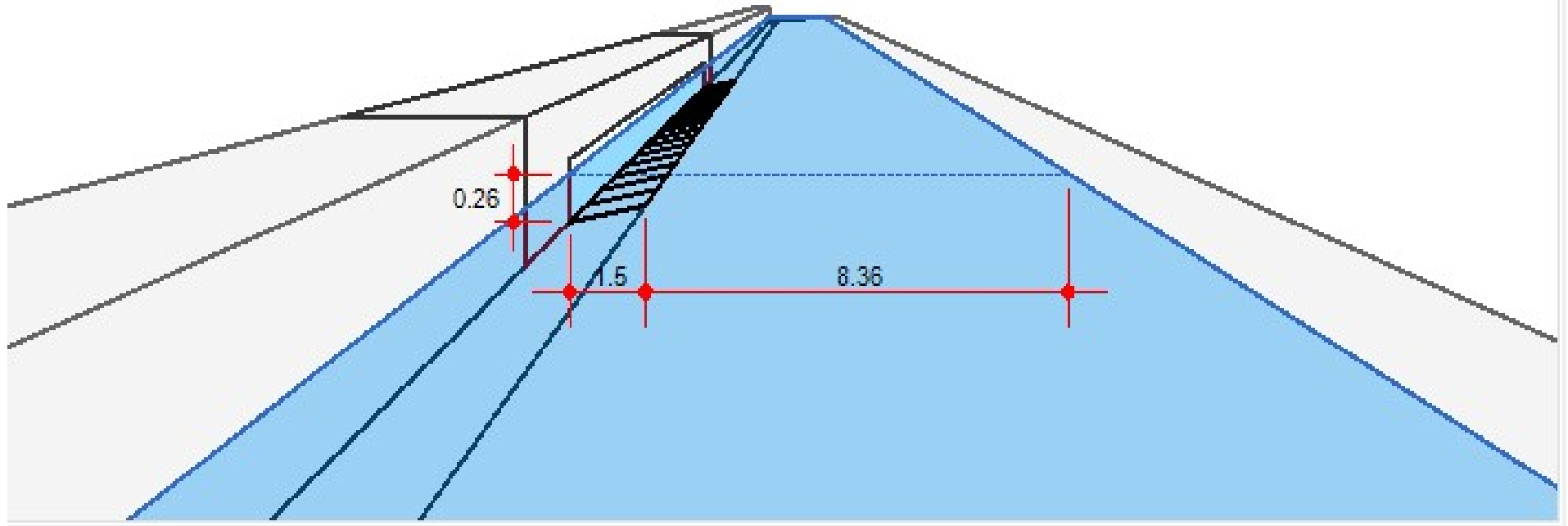
No. Lines: 21

Run Date: 7/10/20

Inlet Section (Line 3 - Combination Inlet) - D30

All dimensions in feet

Line 3 - Combination Inlet in Sag - D30

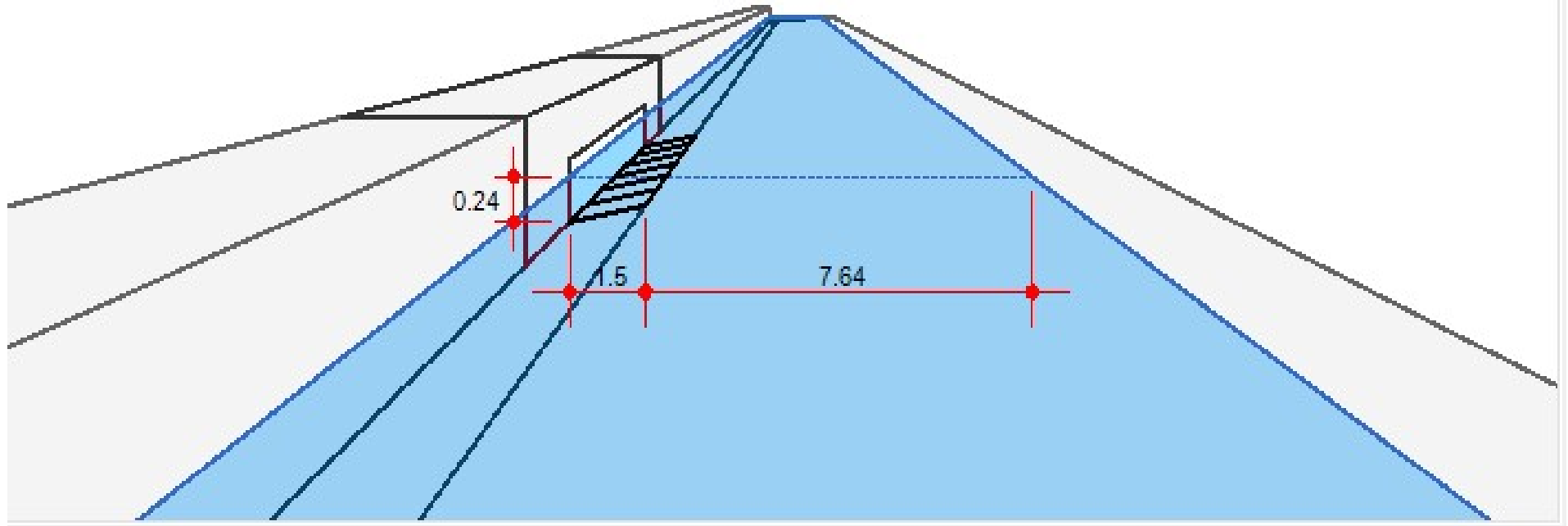


Line #	Q				Inlet			Gutter				Depth		Spread		Byp
	Catch (cfs)	Carry (cfs)	Capt (cfs)	Byp (cfs)	Length (ft)	Depr (in)	Throat (in)	Width (ft)	Slope (ft/ft)	Sw (ft/ft)	Sx (ft/ft)	Gutter (ft)	Inlet (ft)	Gutter (ft)	Inlet (ft)	Line (ft)
3	2.85	0.66	3.51	0.00	9.00	0.0	4.0	1.50	Sag	0.060	0.020	0.26	9.86	n/a	n/a	Sag
Project File:										No. Lines: 21			Run Date: 7/10/20			135

Inlet Section (Line 4 - Combination Inlet) - D32

All dimensions in feet

Line 4 - Combination Inlet in Sag - D32



Line #	Q				Inlet			Gutter				Depth		Spread		Byp
	Catch (cfs)	Carry (cfs)	Capt (cfs)	Byp (cfs)	Length (ft)	Depr (in)	Throat (in)	Width (ft)	Slope (ft/ft)	Sw (ft/ft)	Sx (ft/ft)	Gutter (ft)	Inlet (ft)	Gutter (ft)	Inlet (ft)	Line (ft)
4	1.17	0.41	1.58	0.00	3.00	0.0	4.0	1.50	Sag	0.060	0.020	0.24	9.14	n/a	n/a	Sag

Project File:

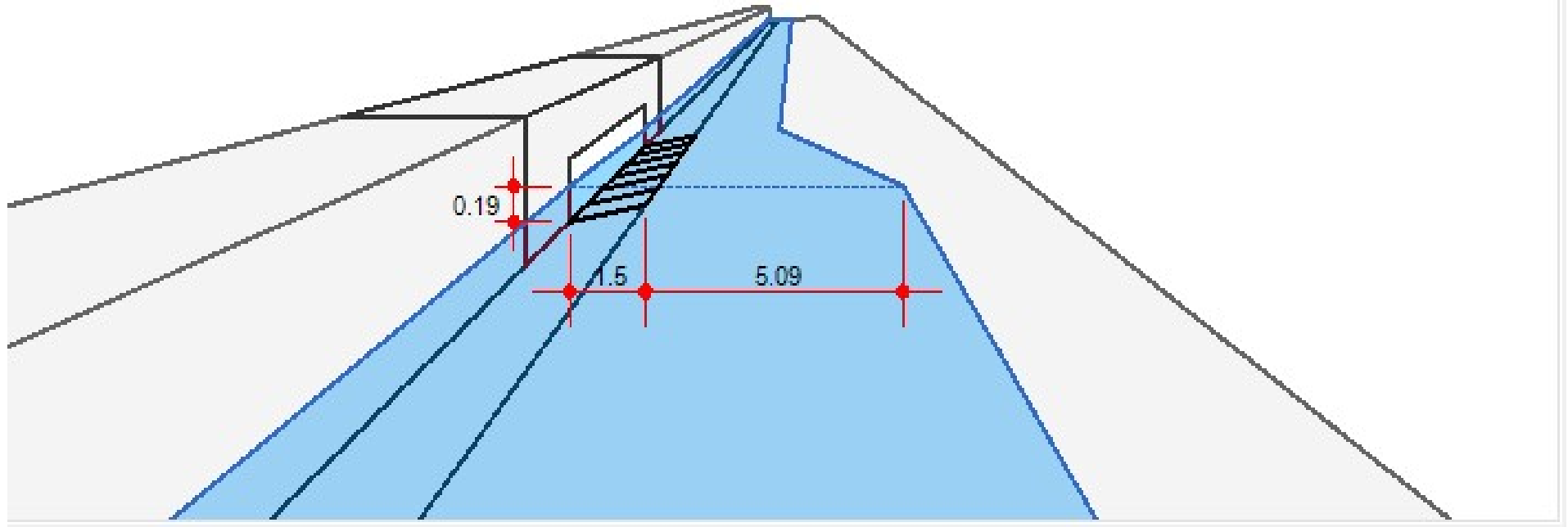
No. Lines: 21

Run Date: 7/10/20

Inlet Section (Line 5 - Combination Inlet) - D52

All dimensions in feet

Line 5 - Combination Inlet on Grade - D52



Line #	Q				Inlet			Gutter				Depth		Spread		Byp
	Catch (cfs)	Carry (cfs)	Capt (cfs)	Byp (cfs)	Length (ft)	Depr (in)	Throat (in)	Width (ft)	Slope (ft/ft)	Sw (ft/ft)	Sx (ft/ft)	Gutter (ft)	Inlet (ft)	Gutter (ft)	Inlet (ft)	Line (ft)
5	0.98	0.32	0.89	0.41	3.00	0.0	4.0	1.50	0.010	0.060	0.020	0.19	6.59	0.13	3.75	4

Project File:

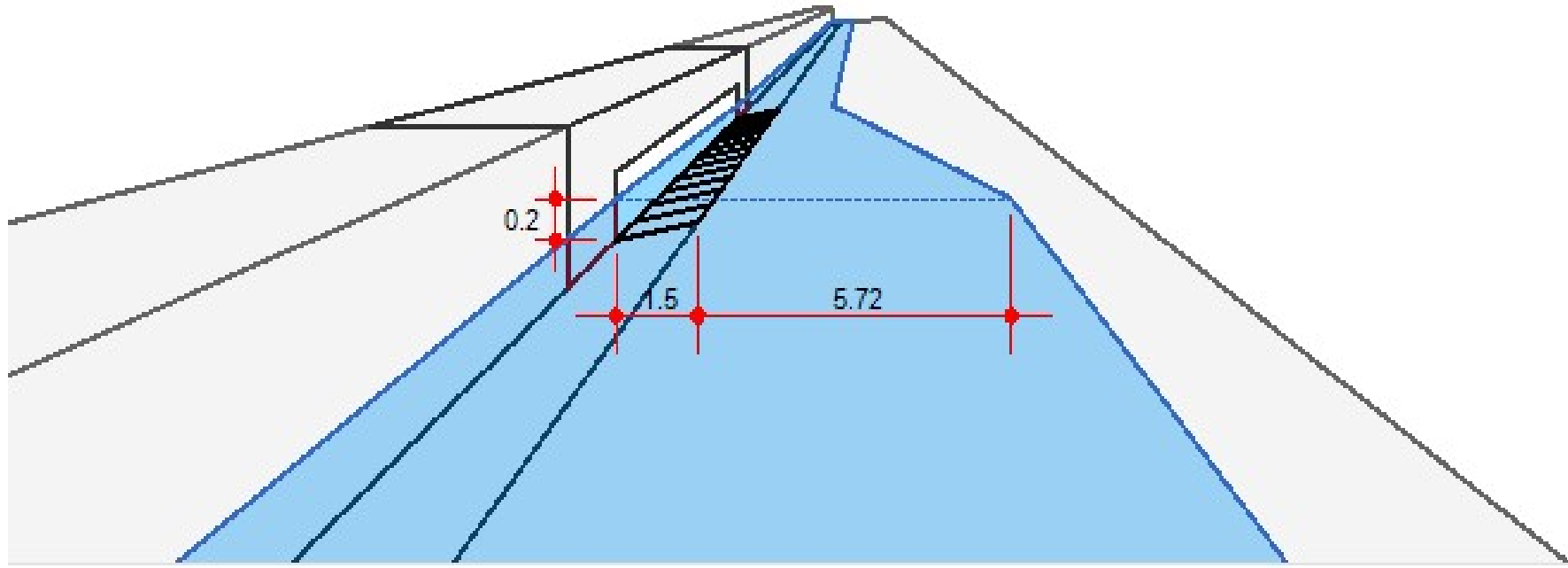
No. Lines: 21

Run Date: 7/10/20

Inlet Section (Line 6 - Combination Inlet) - D33

All dimensions in feet

Line 6 - Combination Inlet on Grade - D33



Line #	Q				Inlet			Gutter				Depth		Spread		Byp
	Catch (cfs)	Carry (cfs)	Capt (cfs)	Byp (cfs)	Length (ft)	Depr (in)	Throat (in)	Width (ft)	Slope (ft/ft)	Sw (ft/ft)	Sx (ft/ft)	Gutter (ft)	Inlet (ft)	Gutter (ft)	Inlet (ft)	Line (ft)
6	1.17	0.43	1.29	0.32	6.00	0.0	4.0	1.50	0.010	0.060	0.020	0.20	7.22	0.12	3.21	5

Project File:

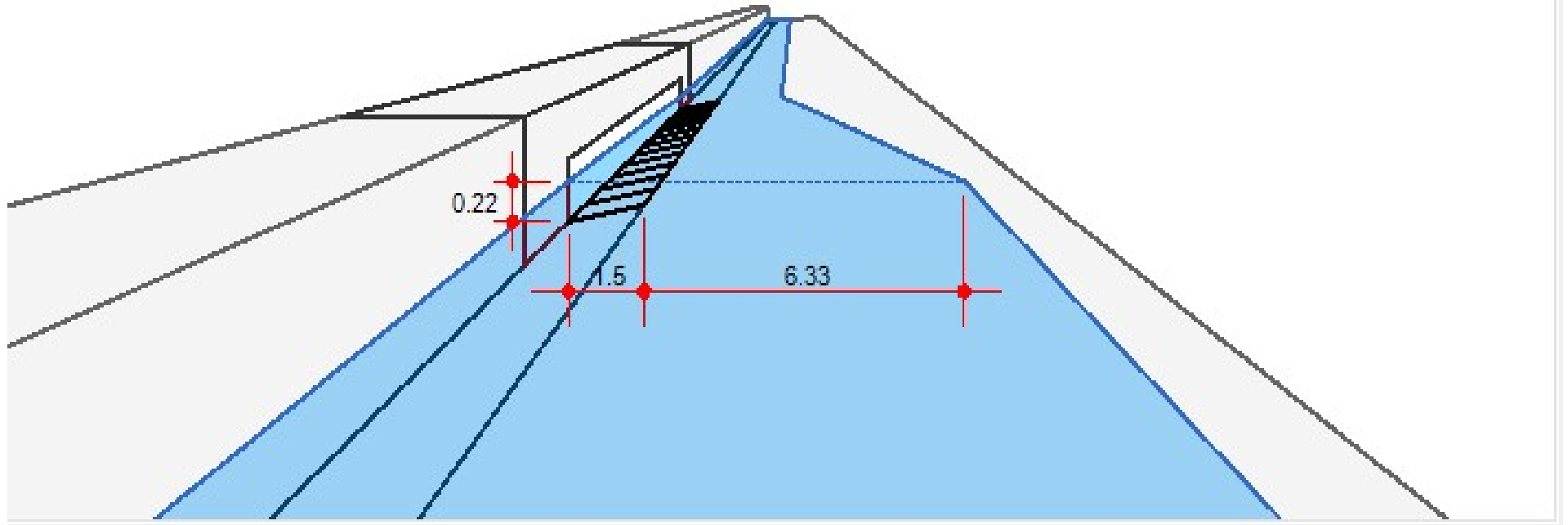
No. Lines: 21

Run Date: 7/10/20

Inlet Section (Line 7 - Combination Inlet) - D34

All dimensions in feet

Line 7 - Combination Inlet on Grade - D34



Line #	Q				Inlet			Gutter				Depth		Spread		Byp
	Catch (cfs)	Carry (cfs)	Capt (cfs)	Byp (cfs)	Length (ft)	Depr (in)	Throat (in)	Width (ft)	Slope (ft/ft)	Sw (ft/ft)	Sx (ft/ft)	Gutter (ft)	Inlet (ft)	Gutter (ft)	Inlet (ft)	Line (ft)
7	1.50	0.45	1.51	0.43	6.00	0.0	4.0	1.50	0.010	0.060	0.020	0.22	7.83	0.14	3.86	6

Project File:

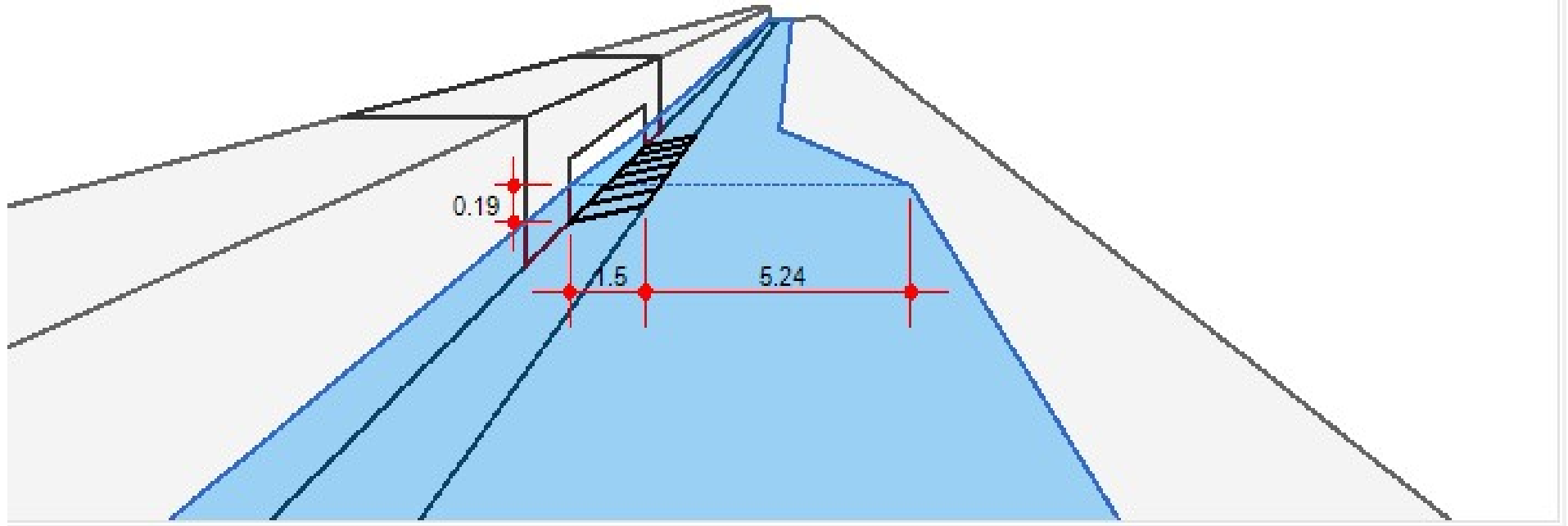
No. Lines: 21

Run Date: 7/10/20

Inlet Section (Line 8 - Combination Inlet) - D36

All dimensions in feet

Line 8 - Combination Inlet on Grade - D36



Line #	Q				Inlet			Gutter				Depth		Spread		Byp
	Catch (cfs)	Carry (cfs)	Capt (cfs)	Byp (cfs)	Length (ft)	Depr (in)	Throat (in)	Width (ft)	Slope (ft/ft)	Sw (ft/ft)	Sx (ft/ft)	Gutter (ft)	Inlet (ft)	Gutter (ft)	Inlet (ft)	Line (ft)
8	1.32	0.05	0.92	0.45	3.00	0.0	4.0	1.50	0.010	0.060	0.020	0.19	6.74	0.14	3.92	7

Project File:

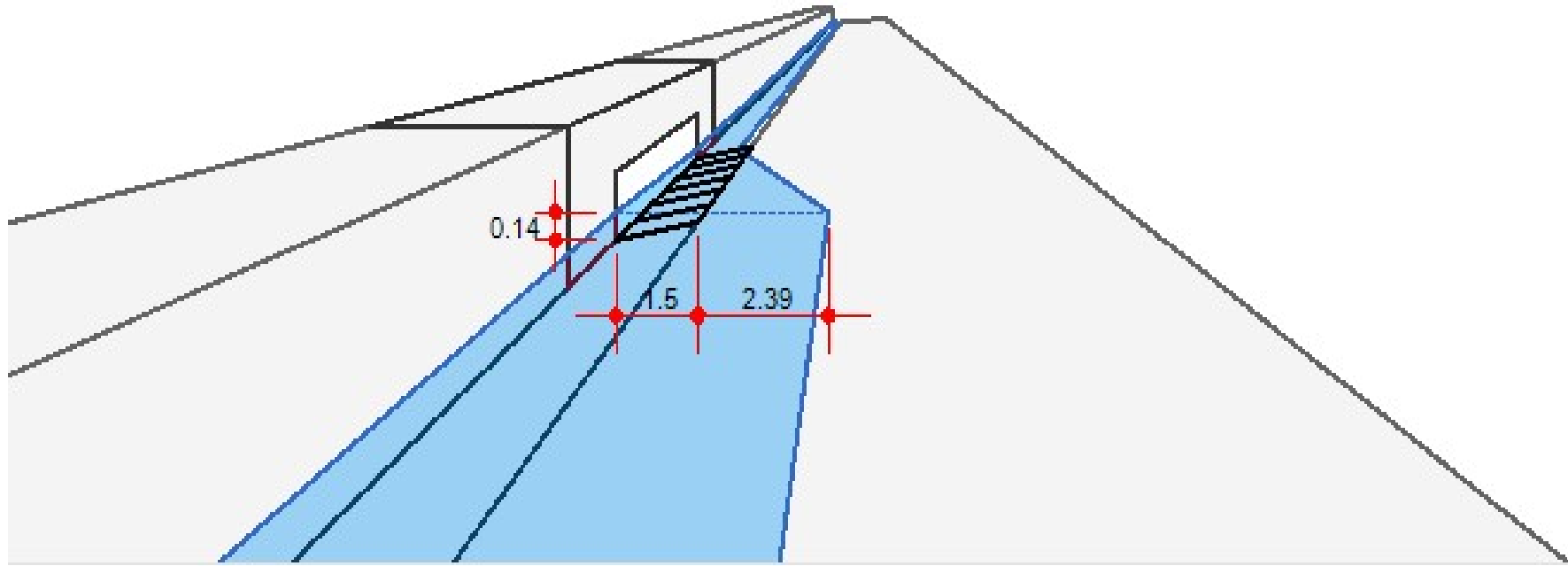
No. Lines: 21

Run Date: 7/10/20

Inlet Section (Line 9 - Combination Inlet) - D48

All dimensions in feet

Line 9 - Combination Inlet on Grade - D48



Line #	Q				Inlet			Gutter				Depth		Spread		Byp
	Catch (cfs)	Carry (cfs)	Capt (cfs)	Byp (cfs)	Length (ft)	Depr (in)	Throat (in)	Width (ft)	Slope (ft/ft)	Sw (ft/ft)	Sx (ft/ft)	Gutter (ft)	Inlet (ft)	Gutter (ft)	Inlet (ft)	Line (ft)
9	0.44	0.00	0.39	0.05	3.00	0.0	4.0	1.50	0.010	0.060	0.020	0.14	3.89	0.06	1.06	8

Project File:

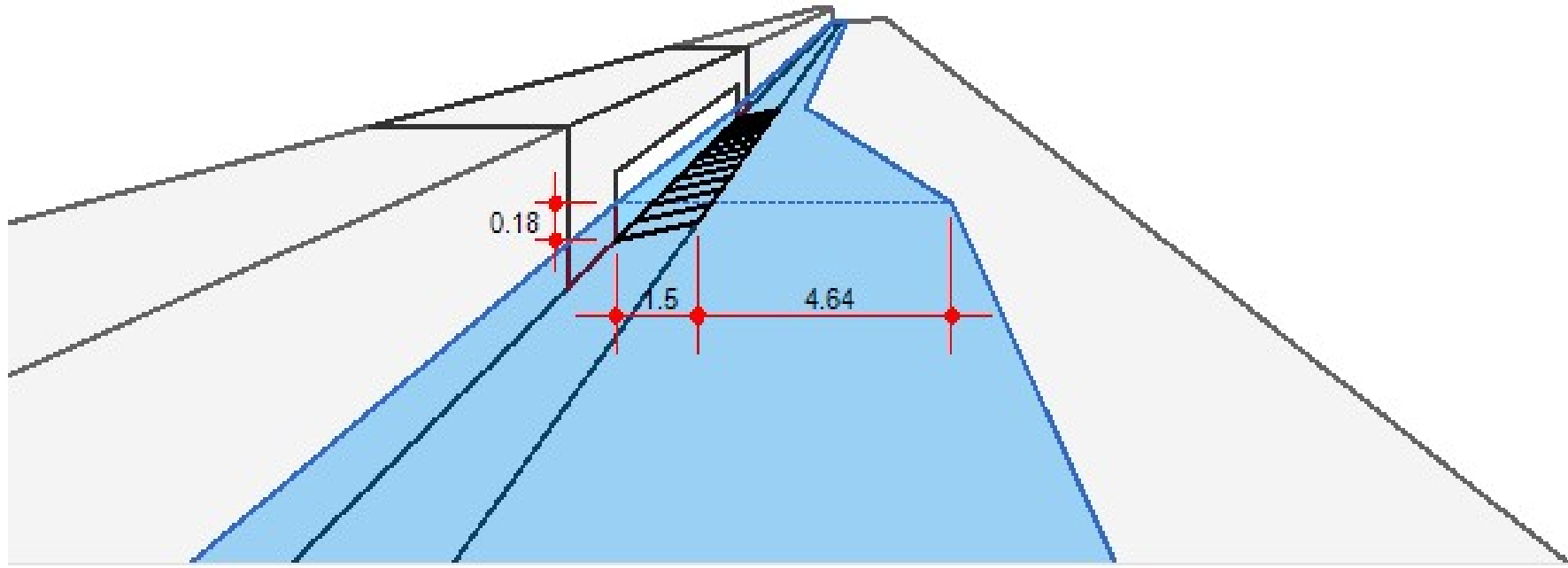
No. Lines: 21

Run Date: 7/10/20

Inlet Section (Line 10 - Combination Inlet) - D38

All dimensions in feet

Line 10 - Combination Inlet on Grade - D38



Line #	Q				Inlet			Gutter				Depth		Spread		Byp
	Catch (cfs)	Carry (cfs)	Capt (cfs)	Byp (cfs)	Length (ft)	Depr (in)	Throat (in)	Width (ft)	Slope (ft/ft)	Sw (ft/ft)	Sx (ft/ft)	Gutter (ft)	Inlet (ft)	Gutter (ft)	Inlet (ft)	Line (ft)
10	1.11	0.00	0.94	0.17	6.00	0.0	4.0	1.50	0.010	0.060	0.020	0.18	6.14	0.10	2.00	11

Project File:

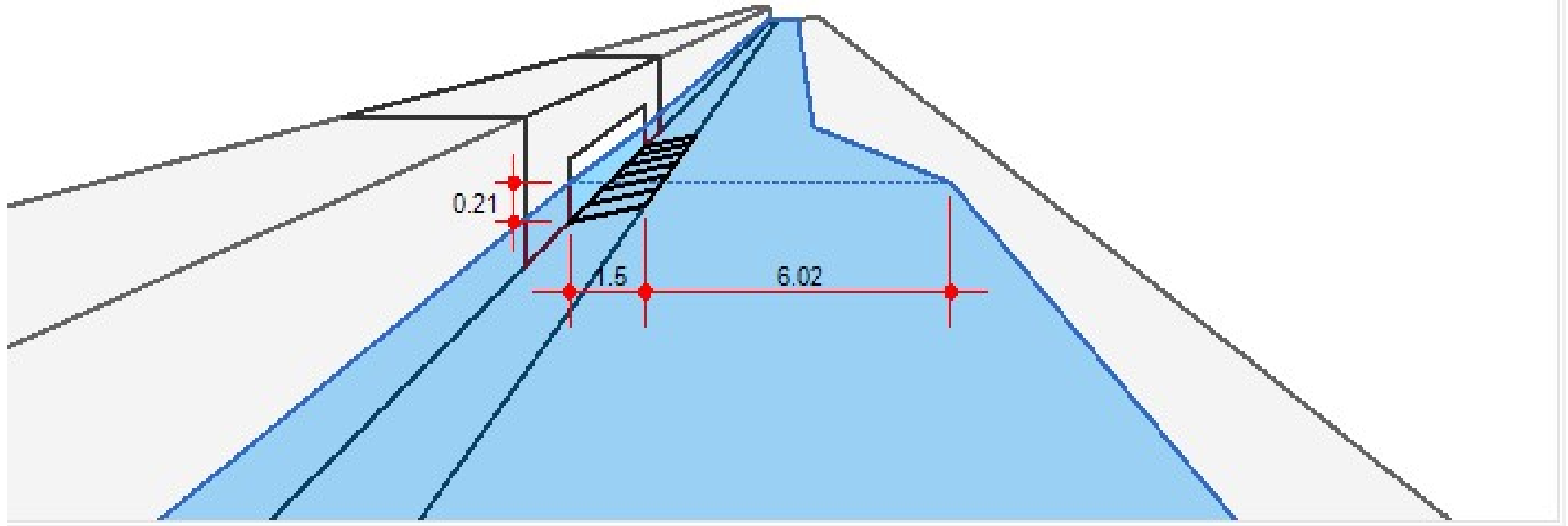
No. Lines: 21

Run Date: 7/10/20

Inlet Section (Line 11 - Combination Inlet) - D37

All dimensions in feet

Line 11 - Combination Inlet on Grade - D37



Line #	Q				Inlet			Gutter				Depth		Spread		Byp
	Catch (cfs)	Carry (cfs)	Capt (cfs)	Byp (cfs)	Length (ft)	Depr (in)	Throat (in)	Width (ft)	Slope (ft/ft)	Sw (ft/ft)	Sx (ft/ft)	Gutter (ft)	Inlet (ft)	Gutter (ft)	Inlet (ft)	Line (ft)
11	1.60	0.17	1.11	0.66	3.00	0.0	4.0	1.50	0.010	0.060	0.020	0.21	7.52	0.16	4.81	3

Project File:

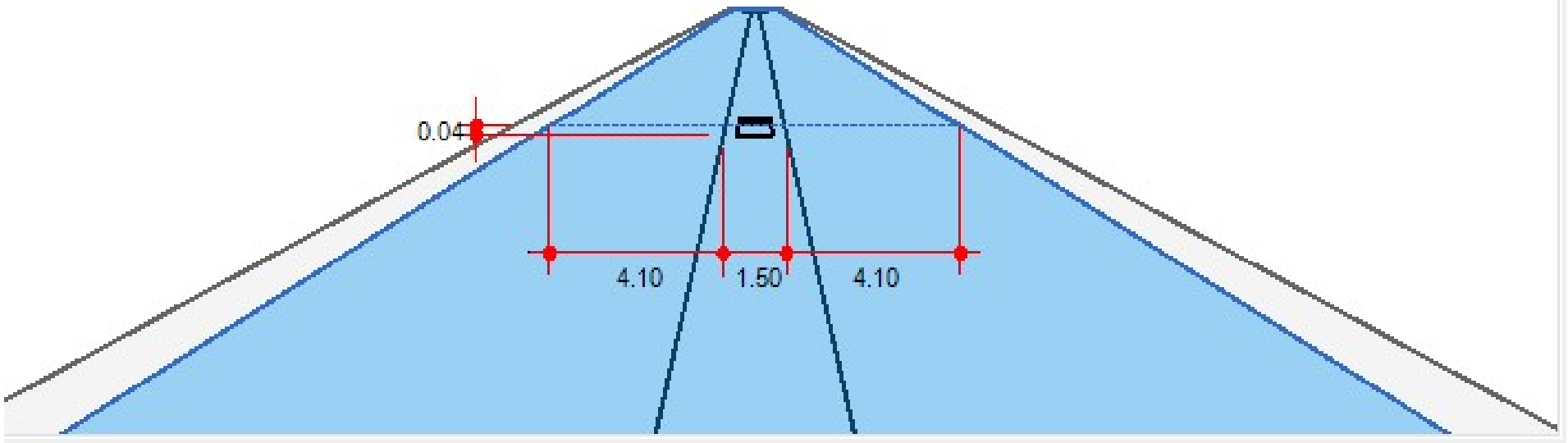
No. Lines: 21

Run Date: 7/10/20

Inlet Section (Line 12 - Drop Grate Inlet) - D51

All dimensions in feet

Line 12 - Drop Grate Inlet on Grade - D51



Line #	Q				Inlet			Gutter				Depth		Spread		Byp
	Catch (cfs)	Carry (cfs)	Capt (cfs)	Byp (cfs)	Length (ft)	Depr (in)	Width (ft)	Width (ft)	Slope (ft/ft)	Sw (ft/ft)	Sx (ft/ft)	Gutter (ft)	Inlet (ft)	Gutter (ft)	Inlet (ft)	Line (ft)
12	0.19	0.00	0.08	0.12	0.83	....	0.83	1.50	0.040	0.060	0.010	0.04	9.70	0.04	9.70	Offsite

Project File:

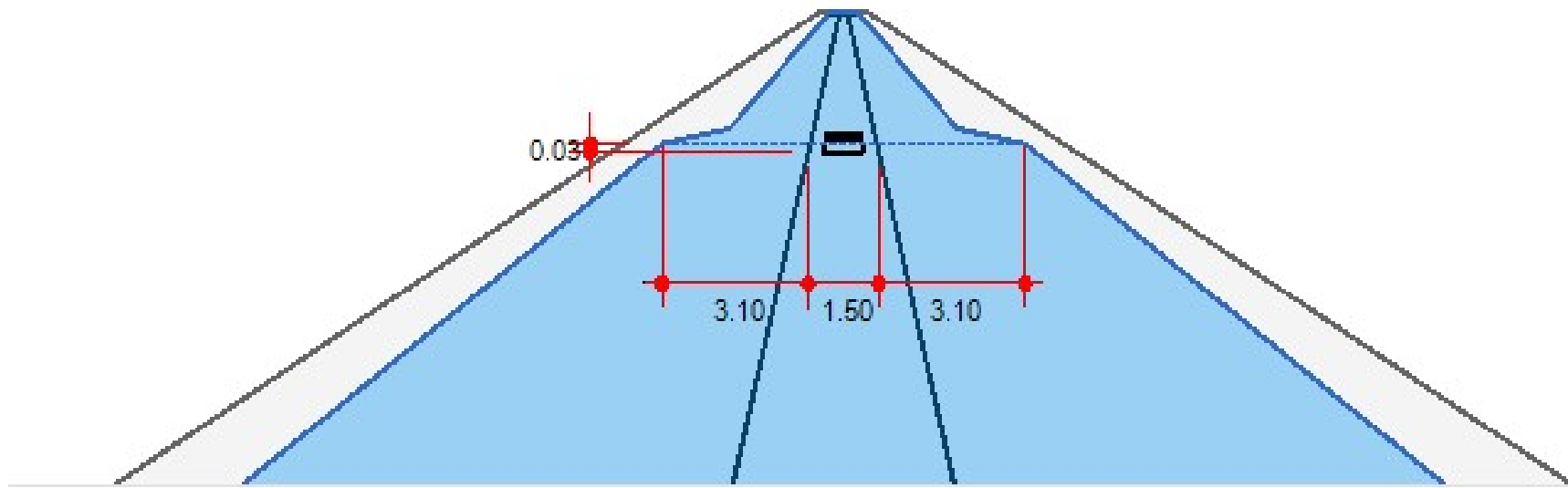
No. Lines: 21

Run Date: 7/10/20

Inlet Section (Line 13 - Drop Grate Inlet) - D40

All dimensions in feet

Line 13 - Drop Grate Inlet on Grade - D40



Line #	Q				Inlet			Gutter				Depth		Spread		Byp
	Catch (cfs)	Carry (cfs)	Capt (cfs)	Byp (cfs)	Length (ft)	Depr (in)	Width (ft)	Width (ft)	Slope (ft/ft)	Sw (ft/ft)	Sx (ft/ft)	Gutter (ft)	Inlet (ft)	Gutter (ft)	Inlet (ft)	Line (ft)
13	0.09	0.00	0.04	0.05	0.83	....	0.83	1.50	0.040	0.060	0.010	0.03	7.70	0.03	7.70	Offsite

Project File:

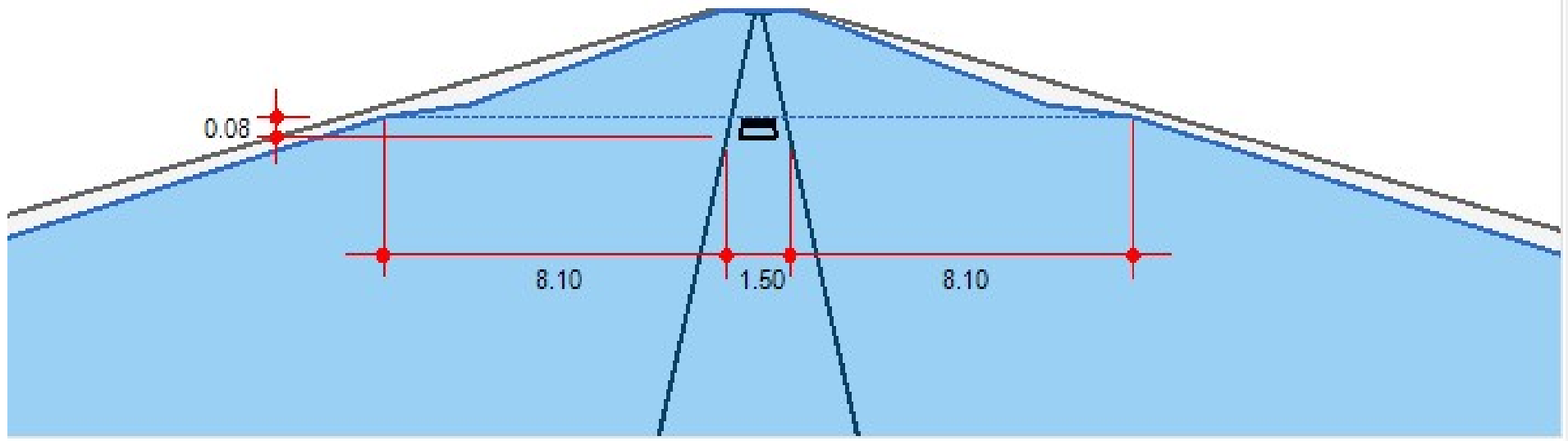
No. Lines: 21

Run Date: 7/10/20

Inlet Section (Line 14 - Drop Grate Inlet) - D41

All dimensions in feet

Line 14 - Drop Grate Inlet on Grade - D41



Line #	Q				Inlet			Gutter				Depth		Spread		Byp
	Catch (cfs)	Carry (cfs)	Capt (cfs)	Byp (cfs)	Length (ft)	Depr (in)	Width (ft)	Width (ft)	Slope (ft/ft)	Sw (ft/ft)	Sx (ft/ft)	Gutter (ft)	Inlet (ft)	Gutter (ft)	Inlet (ft)	Line (ft)
14	0.66	0.00	0.19	0.46	0.83	....	0.83	1.50	0.040	0.060	0.010	0.08	17.70	0.08	17.70	Offsite

Project File:

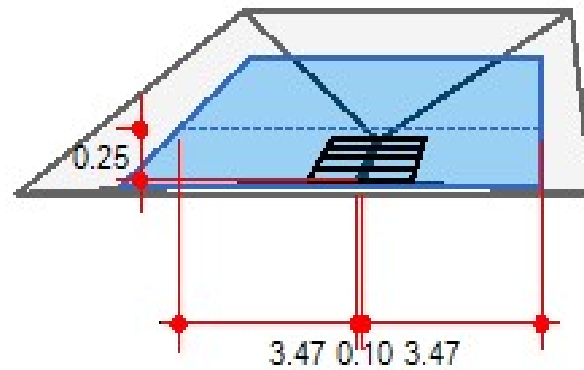
No. Lines: 21

Run Date: 7/10/20

Inlet Section (Line 15 - Drop Grate Inlet) - D42

All dimensions in feet

Line 15 - Drop Grate Inlet in Sag - D42



Line #	Q				Inlet			Gutter				Depth		Spread		Byp
	Catch (cfs)	Carry (cfs)	Capt (cfs)	Byp (cfs)	Length (ft)	Depr (in)	Area (sqft)	Width (ft)	Slope (ft/ft)	Sw (ft/ft)	Sx (ft/ft)	Gutter (ft)	Inlet (ft)	Gutter (ft)	Inlet (ft)	Line (ft)
15	3.03	0.00	3.03	0.00	2.00	....	2.00	0.10	Sag	0.100	0.100	0.25	7.03	n/a	n/a	Sag

Project File:

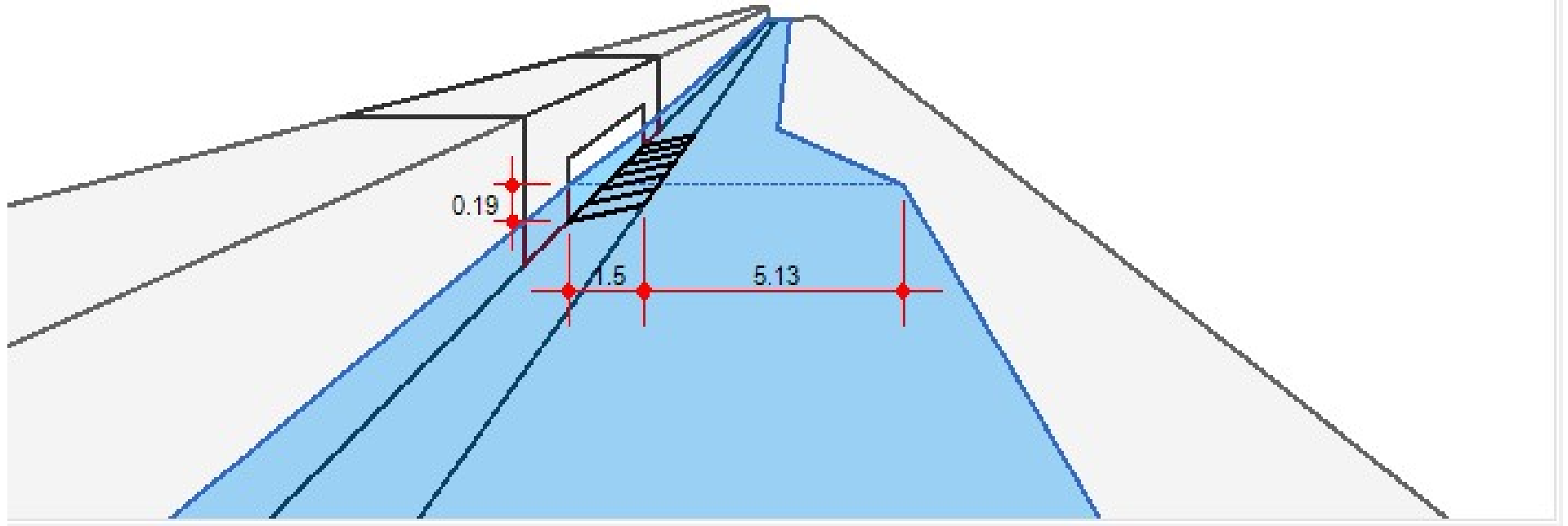
No. Lines: 21

Run Date: 7/10/20

Inlet Section (Line 16 - Combination Inlet) - D39

All dimensions in feet

Line 16 - Combination Inlet on Grade - D39



Line #	Q				Inlet			Gutter				Depth		Spread		Byp
	Catch (cfs)	Carry (cfs)	Capt (cfs)	Byp (cfs)	Length (ft)	Depr (in)	Throat (in)	Width (ft)	Slope (ft/ft)	Sw (ft/ft)	Sx (ft/ft)	Gutter (ft)	Inlet (ft)	Gutter (ft)	Inlet (ft)	Line (ft)
16	1.22	0.00	0.84	0.38	3.00	0.0	4.0	1.50	0.010	0.060	0.020	0.19	6.63	0.13	3.72	Offsite

Project File:

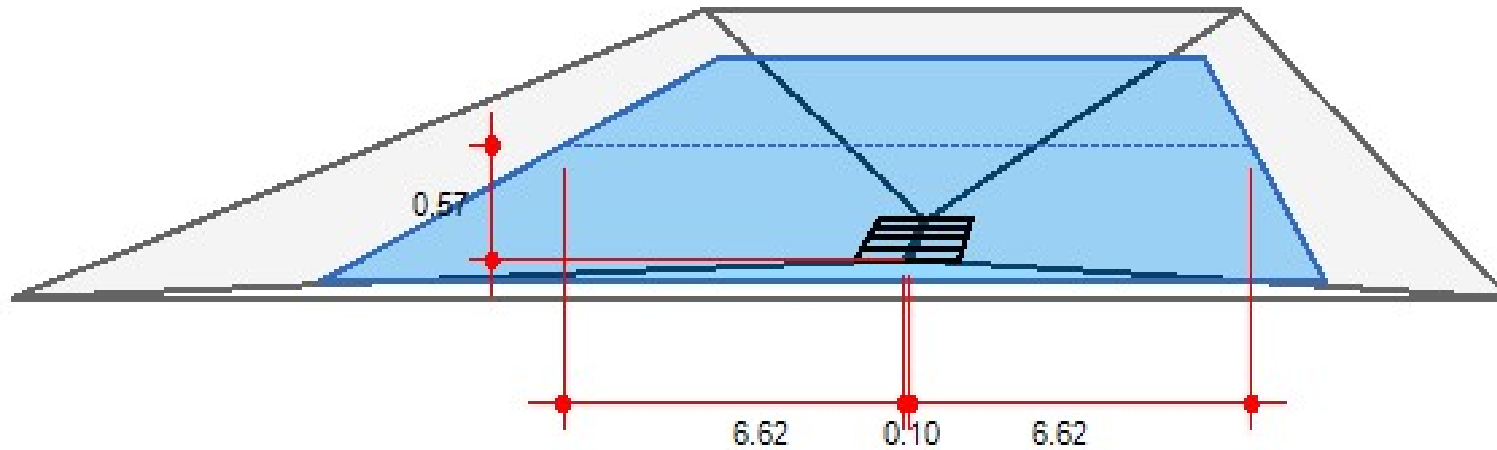
No. Lines: 21

Run Date: 7/10/20

Inlet Section (Line 17 - Drop Grate Inlet) - D44

All dimensions in feet

Line 17 - Drop Grate Inlet in Sag - D44



Line #	Q				Inlet			Gutter				Depth		Spread		Byp
	Catch (cfs)	Carry (cfs)	Capt (cfs)	Byp (cfs)	Length (ft)	Depr (in)	Area (sqft)	Width (ft)	Slope (ft/ft)	Sw (ft/ft)	Sx (ft/ft)	Gutter (ft)	Inlet (ft)	Gutter (ft)	Inlet (ft)	Line (ft)
17	8.09	0.00	8.09	0.00	2.00	....	2.00	0.10	Sag	0.100	0.100	0.57	13.33	n/a	n/a	Sag

Project File:

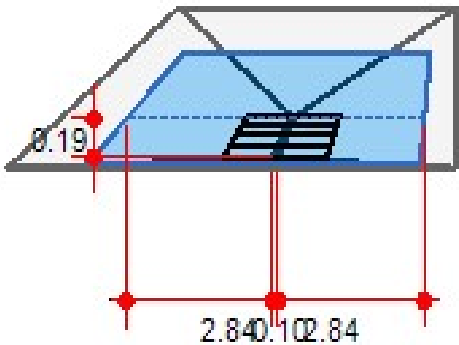
No. Lines: 21

Run Date: 7/10/20

Inlet Section (Line 18 - Drop Grate Inlet) - D56

All dimensions in feet

Line 18 - Drop Grate Inlet in Sag - D56

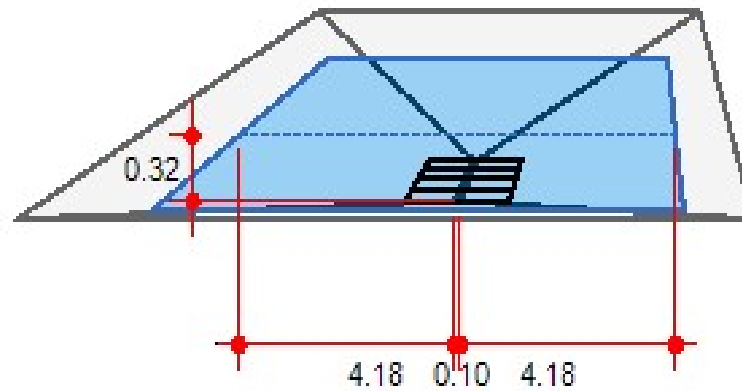


Line #	Q				Inlet			Gutter				Depth		Spread		Byp
	Catch (cfs)	Carry (cfs)	Capt (cfs)	Byp (cfs)	Length (ft)	Depr (in)	Area (sqft)	Width (ft)	Slope (ft/ft)	Sw (ft/ft)	Sx (ft/ft)	Gutter (ft)	Inlet (ft)	Gutter (ft)	Inlet (ft)	Line (ft)
18	1.97	0.00	1.97	0.00	2.00	....	2.00	0.10	Sag	0.100	0.100	0.19	5.77	n/a	n/a	Sag

Inlet Section (Line 21 - Drop Grate Inlet) - D55

All dimensions in feet

Line 21 - Drop Grate Inlet in Sag - D55



Line #	Q				Inlet			Gutter				Depth		Spread		Byp
	Catch (cfs)	Carry (cfs)	Capt (cfs)	Byp (cfs)	Length (ft)	Depr (in)	Area (sqft)	Width (ft)	Slope (ft/ft)	Sw (ft/ft)	Sx (ft/ft)	Gutter (ft)	Inlet (ft)	Gutter (ft)	Inlet (ft)	Line (ft)
21	4.41	0.00	4.41	0.00	2.00	....	2.00	0.10	Sag	0.100	0.100	0.32	8.46	n/a	n/a	Sag

Project File:

No. Lines: 21

Run Date: 7/10/20

100-Year Storm Calculations

Storm Sewer Summary Report

Item # 5.

Line No.	Line ID	Flow rate (cfs)	Line Size (in)	Line shape	Line length (ft)	Invert EL Dn (ft)	Invert EL Up (ft)	Line Slope (%)	HGL Down (ft)	HGL Up (ft)	Minor loss (ft)	HGL Junct (ft)	Dns Line No.	Type
1	P29	43.88	36	Cir	231.361	812.00	815.00	1.297	813.64	817.16	n/a	817.16	End	DropGrate
2	P50	32.31	36	Cir	47.619	815.00	815.48	1.008	817.16	817.32	n/a	817.32 j	1	None
3	P30	27.39	24	Cir	119.000	816.48	820.98	3.782	817.62	822.80	0.65	822.80	2	Combination
4	P32	24.31	24	Cir	26.000	820.98	821.40	1.616	822.80	823.14	n/a	823.14 j	3	Combination
5	P52	21.73	24	Cir	15.551	821.40	821.43	0.193	823.40*	823.54*	1.12	824.66	4	Combination
6	P33	8.57	18	Cir	85.160	821.93	823.23	1.527	824.66*	825.23*	0.55	825.78	5	Combination
7	P34	5.62	18	Cir	129.034	823.23	825.00	1.372	825.78	826.10	0.13	826.22	6	Combination
8	P35	3.99	12	Cir	146.688	825.50	826.94	0.982	826.50*	828.34*	0.60	828.95	7	Combination
9	P48	0.72	12	Cir	110.755	827.14	831.80	4.207	828.95	832.15	n/a	832.15 j	8	Combination
10	P38	1.83	12	Cir	26.000	826.94	827.13	0.731	828.95*	829.02*	0.08	829.10	8	Combination
11	P37	2.64	12	Cir	26.000	823.73	823.83	0.385	825.78*	825.92*	0.18	826.09	6	Combination
12	P51	6.12	18	Cir	234.000	816.98	821.37	1.876	817.66	822.33	n/a	822.33	2	DropGrate
13	P40	5.91	18	Cir	51.137	821.37	821.87	0.978	822.33	822.81	n/a	822.81 j	12	DropGrate
14	P41	5.84	15	Cir	72.100	822.12	823.52	1.942	822.85	824.50	n/a	824.50	13	DropGrate
15	P42	4.98	15	Cir	69.583	823.52	824.22	1.006	824.50	825.12	n/a	825.12 j	14	DropGrate
16	P39	2.01	12	Cir	106.282	822.40	824.21	1.703	823.14	824.81	n/a	824.81 j	4	Combination
17	P44	13.28	24	Cir	117.793	821.43	821.67	0.204	824.66*	825.07*	0.28	825.34	5	DropGrate
18	P56	3.24	12	Cir	119.906	819.74	822.00	1.885	820.31	822.77	n/a	822.77	End	DropGrate
19	P16	6.96	18	Cir	12.985	807.80	807.93	1.001	808.69	808.95	0.46	808.95	End	Manhole
20	P54	7.07	18	Cir	132.000	807.93	809.39	1.106	808.95	810.42	n/a	810.42	19	Manhole
21	P55	7.26	18	Cir	212.012	809.39	811.51	1.000	810.42	812.55	0.48	812.55	20	DropGrate

Project File: REVISED HAWKS POINTE PLAT 6 .stm

Number of lines: 21

Run Date: 7/10/2024

NOTES: Return period = 100 Yrs. ; *Surcharged (HGL above crown). ; j - Line contains hyd. jump.

Inlet Report

Item # 5.

Line No	Inlet ID	Q = CIA (cfs)	Q carry (cfs)	Q capt (cfs)	Q Byp (cfs)	Junc Type	Curb Inlet		Grate Inlet			Gutter							Inlet			Byp Line No
							Ht (in)	L (ft)	Area (sqft)	L (ft)	W (ft)	So (ft/ft)	W (ft)	Sw (ft/ft)	Sx (ft/ft)	n	Depth (ft)	Spread (ft)	Depth (ft)	Spread (ft)	Depr (in)	
1	D29	12.96	0.00	12.96	0.00	DrGrt	0.0	0.00	2.00	2.00	2.00	Sag	0.10	0.100	0.100	0.013	1.46	31.10	1.46	31.10	0.0	Off
2	D50	0.25	0.00	0.00	0.25	None	0.0	0.83	0.00	0.83	0.83	0.000	0.00	0.000	0.000	0.000	0.00	0.00	0.00	0.00	0.0	Off
3	D30	4.71	1.42	6.13	0.00	Comb	4.0	9.00	6.00	9.00	1.50	Sag	1.50	0.060	0.020	0.013	0.35	14.62	0.35	14.62	0.0	Off
4	D32	1.93	1.07	3.00	0.00	Comb	4.0	3.00	2.00	3.00	1.50	Sag	1.50	0.060	0.020	0.013	0.35	14.38	0.35	14.38	0.0	Off
5	D52	1.62	0.84	1.39	1.07	Comb	4.0	3.00	0.00	3.00	1.50	0.010	1.50	0.060	0.020	0.012	0.23	8.64	0.18	6.03	0.0	4
6	D33	1.93	1.04	2.14	0.84	Comb	4.0	6.00	0.00	6.00	1.50	0.010	1.50	0.060	0.020	0.012	0.25	9.34	0.17	5.39	0.0	5
7	D34	2.47	0.98	2.41	1.04	Comb	4.0	6.00	0.00	6.00	1.50	0.010	1.50	0.060	0.020	0.012	0.26	9.92	0.18	5.97	0.0	6
8	D36	2.17	0.15	1.34	0.98	Comb	4.0	3.00	0.00	3.00	1.50	0.010	1.50	0.060	0.020	0.012	0.23	8.43	0.18	5.80	0.0	7
9	D48	0.72	0.00	0.57	0.15	Comb	4.0	3.00	0.00	3.00	1.50	0.010	1.50	0.060	0.020	0.012	0.16	5.02	0.10	1.77	0.0	8
10	D38	1.83	0.00	1.44	0.39	Comb	4.0	6.00	0.00	6.00	1.50	0.010	1.50	0.060	0.020	0.012	0.21	7.63	0.13	3.66	0.0	11
11	D37	2.64	0.39	1.61	1.42	Comb	4.0	3.00	0.00	3.00	1.50	0.010	1.50	0.060	0.020	0.012	0.25	9.41	0.20	6.86	0.0	3
12	D51	0.32	0.00	0.11	0.21	DrGrt	0.0	0.00	0.00	0.83	0.83	0.040	1.50	0.060	0.010	0.013	0.06	13.70	0.06	13.70	0.0	Off
13	D40	0.14	0.00	0.06	0.09	DrGrt	0.0	0.00	0.00	0.83	0.83	0.040	1.50	0.060	0.010	0.013	0.04	9.70	0.04	9.70	0.0	Off
14	D41	1.08	0.00	0.29	0.80	DrGrt	0.0	0.00	0.00	0.83	0.83	0.040	1.50	0.060	0.010	0.013	0.10	21.70	0.10	21.70	0.0	Off
15	D42	4.98	0.00	4.98	0.00	DrGrt	0.0	0.00	2.00	2.00	2.00	Sag	0.10	0.100	0.100	0.013	0.35	9.01	0.35	9.01	0.0	Off
16	D39	2.01	0.00	1.20	0.80	Comb	4.0	3.00	0.00	3.00	1.50	0.010	1.50	0.060	0.020	0.013	0.22	8.21	0.17	5.49	0.0	Off
17	D44	13.28	0.00	13.28	0.00	DrGrt	0.0	0.00	2.00	2.00	2.00	Sag	0.10	0.100	0.100	0.013	1.53	32.55	1.53	32.55	0.0	Off
18	D56	3.24	0.00	3.24	0.00	DrGrt	0.0	0.00	2.00	2.00	2.00	Sag	0.10	0.100	0.100	0.013	0.26	7.26	0.26	7.26	0.0	Off
19	D53	0.01*	0.00	0.00	0.01	MH	0.0	0.00	0.00	0.00	0.00	Sag	0.00	0.000	0.000	0.013	0.00	0.00	0.00	0.00	0.0	Off
20	D54	0.01*	0.00	0.00	0.01	MH	0.0	0.00	0.00	0.00	0.00	Sag	0.00	0.000	0.000	0.013	0.00	0.00	0.00	0.00	0.0	Off
21	D55	7.26	0.00	7.26	0.00	DrGrt	0.0	0.00	2.00	2.00	2.00	Sag	0.10	0.100	0.100	0.013	0.46	11.12	0.46	11.12	0.0	Off

Project File: REVISED HAWKS POINTE PLAT 6 .stm

Number of lines: 21

Run Date: 7/10/2024

NOTES: Inlet N-Values = 0.016; Intensity = 265.65 / (Inlet time + 20.10) ^ 0.96; Return period = 100 Yrs. ; * Indicates Known Q added. All curb inlets are throat.

Line Profile (Line 1) - P29



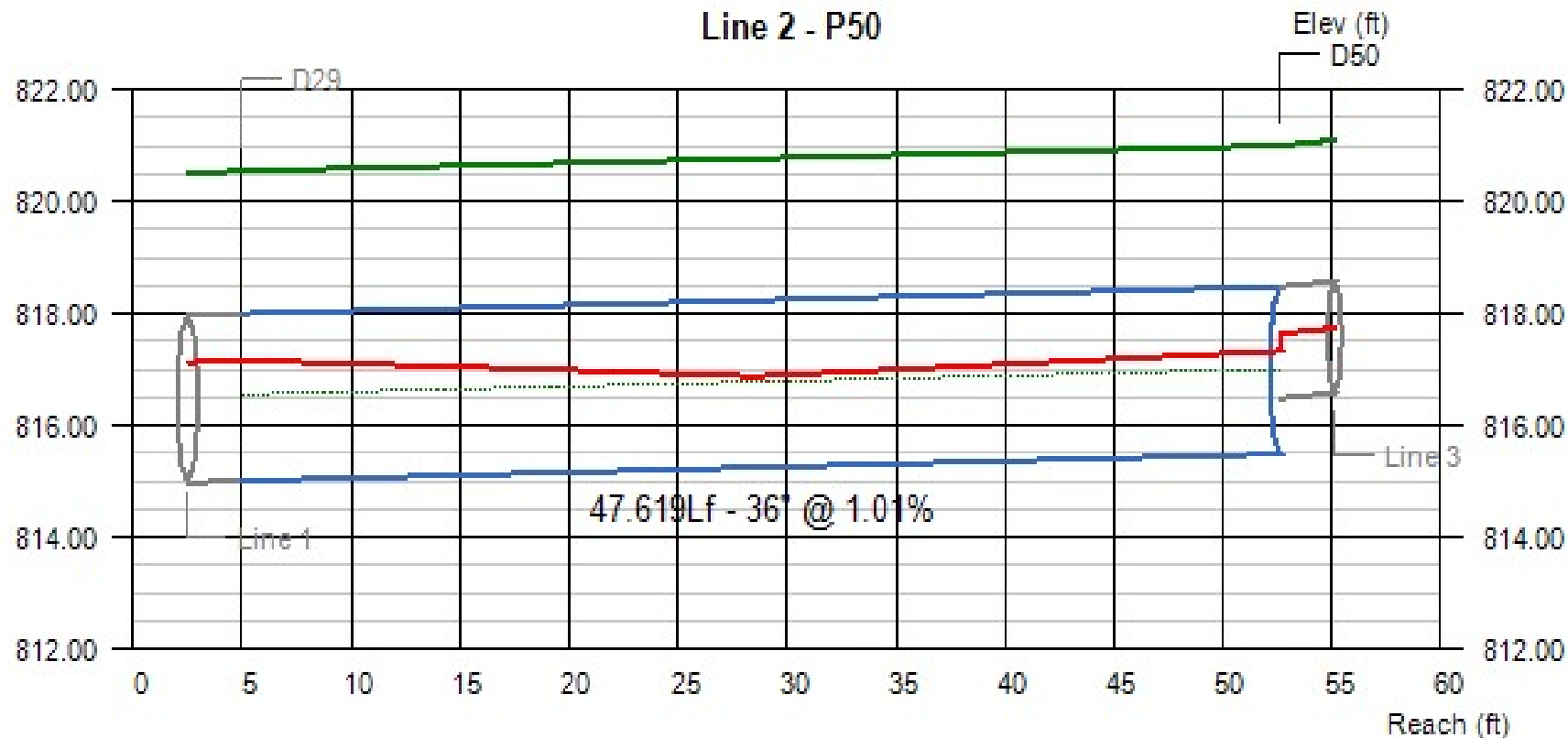
Line #	Q (cfs)	Invert Elevation		Depth of Flow			Hydraulic Grade Line			Velocity		Cover	
		Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Hw (ft)	Dn (ft)	Up (ft)	Jnct (ft)	Dn (ft/s)	Up (ft/s)	Dn (ft)	Up (ft)
1	43.88	812.00	815.00	1.64	2.16	2.16	813.64	817.16	817.16	11.13	8.07	1.42	2.55

Project File:

No. Lines: 21

Run Date: 7/10/20

Line Profile (Line 2) - P50



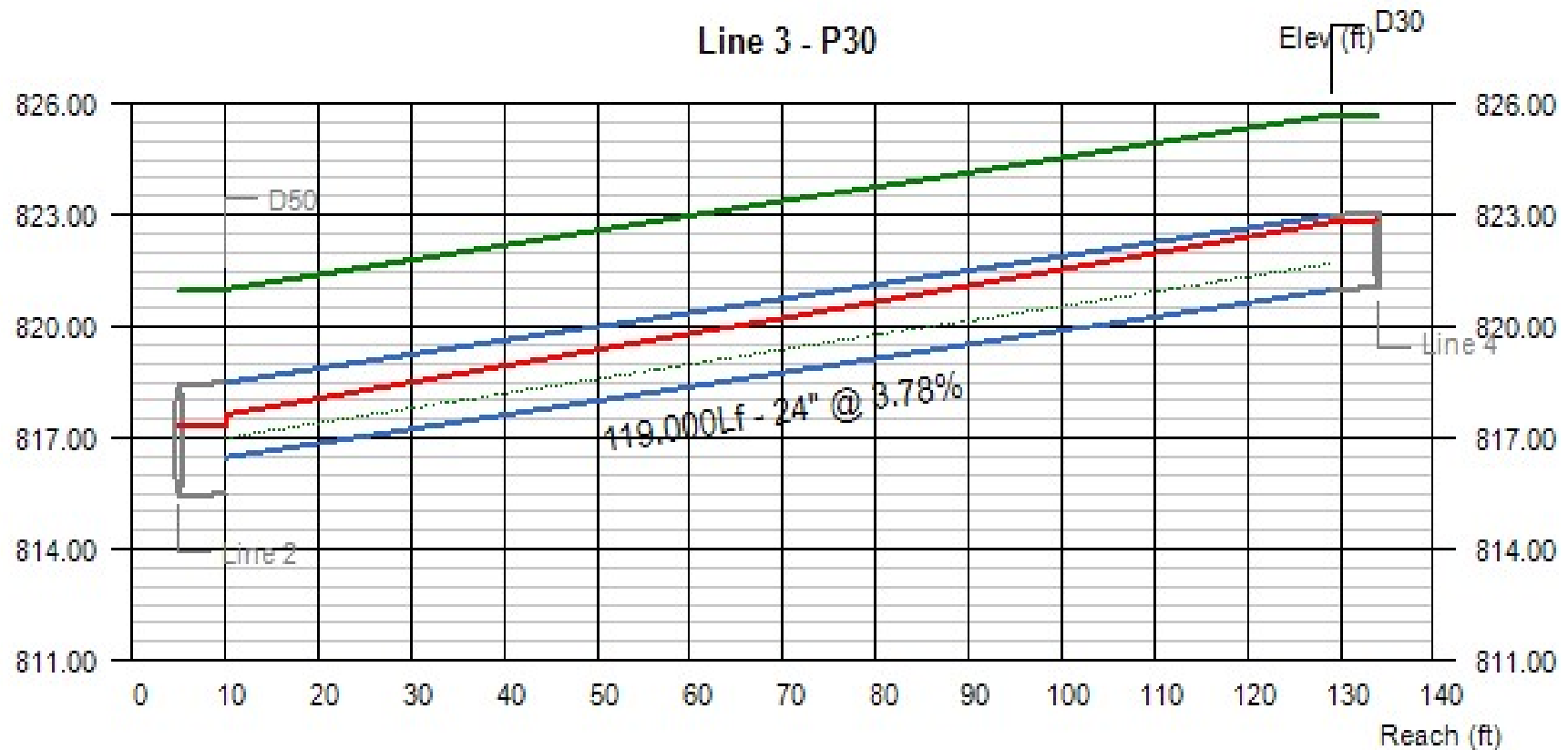
Line #	Q (cfs)	Invert Elevation		Depth of Flow			Hydraulic Grade Line			Velocity		Cover	
		Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Hw (ft)	Dn (ft)	Up (ft)	Jnct (ft)	Dn (ft/s)	Up (ft/s)	Dn (ft)	Up (ft)
2	32.31	815.00	815.48	2.16	1.84	1.84	817.16	817.32 j	817.32	5.94	7.09	2.55	2.52

Project File:

No. Lines: 21

Run Date: 7/10/20

Line Profile (Line 3) - P30



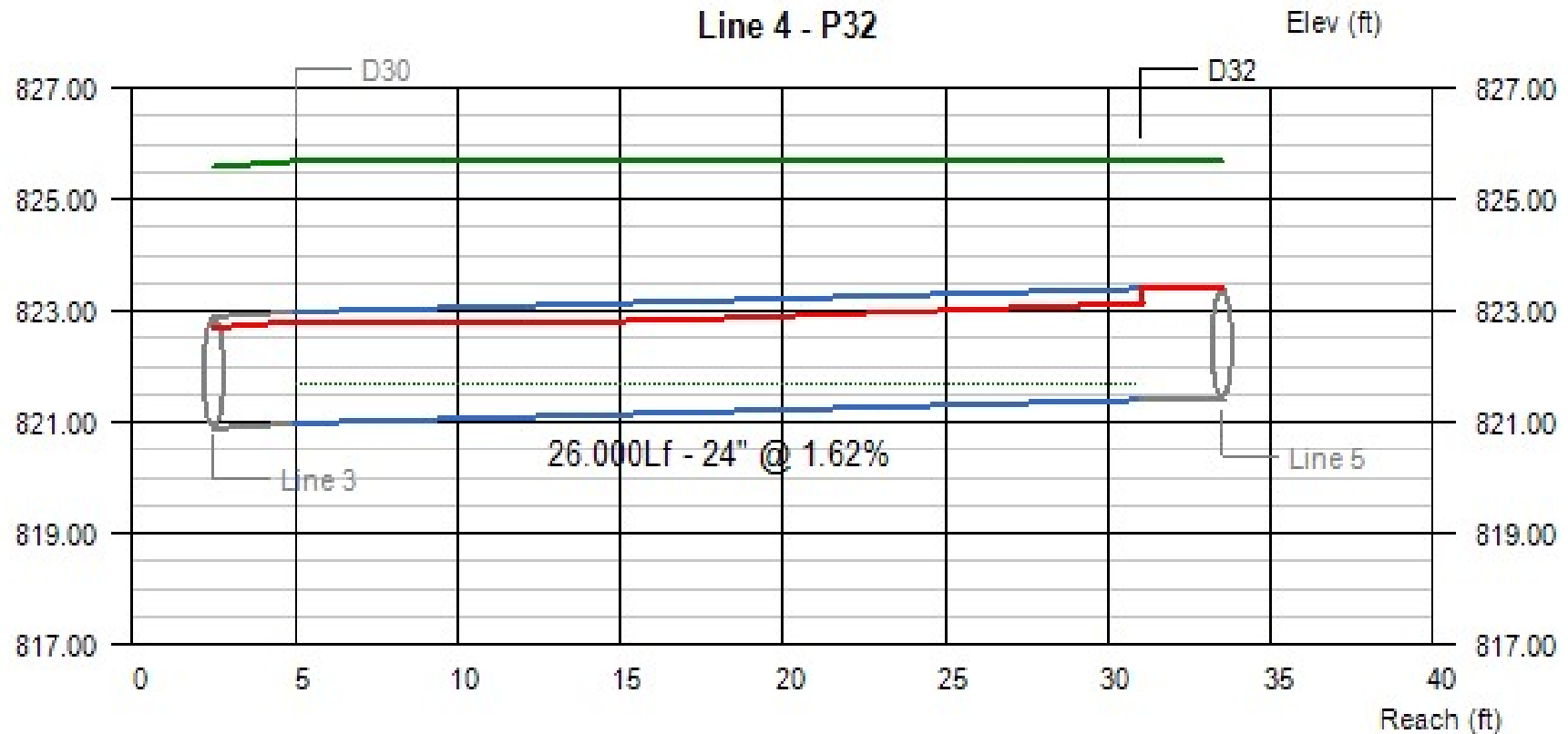
Line #	Q (cfs)	Invert Elevation		Depth of Flow			Hydraulic Grade Line			Velocity		Cover	
		Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Hw (ft)	Dn (ft)	Up (ft)	Jnct (ft)	Dn (ft/s)	Up (ft/s)	Dn (ft)	Up (ft)
3	27.39	816.48	820.98	1.14	1.82	1.82	817.62	822.80	822.80	14.75	9.14	2.52	2.71

Project File:

No. Lines: 21

Run Date: 7/10/20

Line Profile (Line 4) - P32



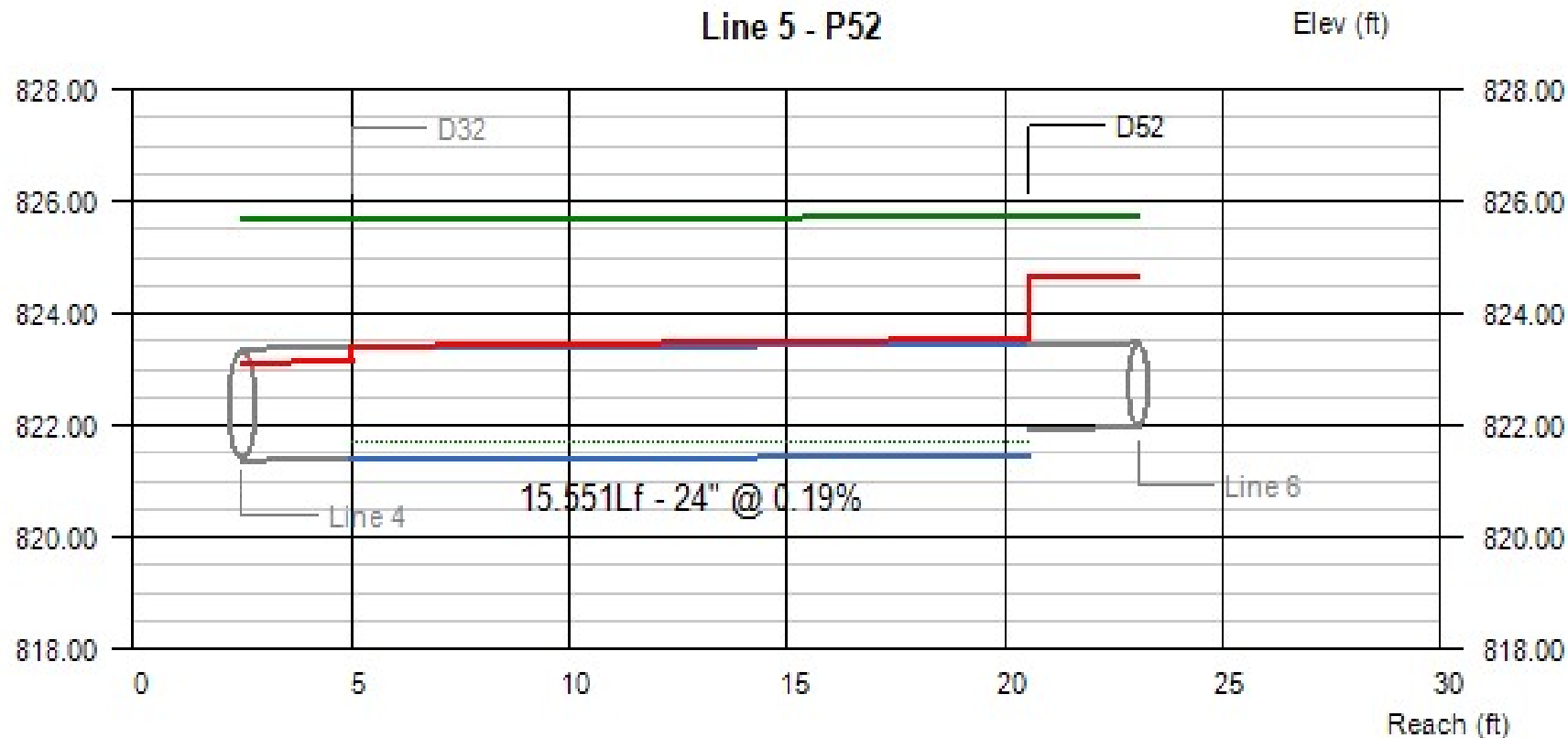
Line #	Q (cfs)	Invert Elevation		Depth of Flow			Hydraulic Grade Line			Velocity		Cover	
		Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Hw (ft)	Dn (ft)	Up (ft)	Jnct (ft)	Dn (ft/s)	Up (ft/s)	Dn (ft)	Up (ft)
4	24.31	820.98	821.40	1.82	1.74	1.74	822.80	823.14 j	823.14	8.11	8.37	2.71	2.29

Project File:

No. Lines: 21

Run Date: 7/10/20

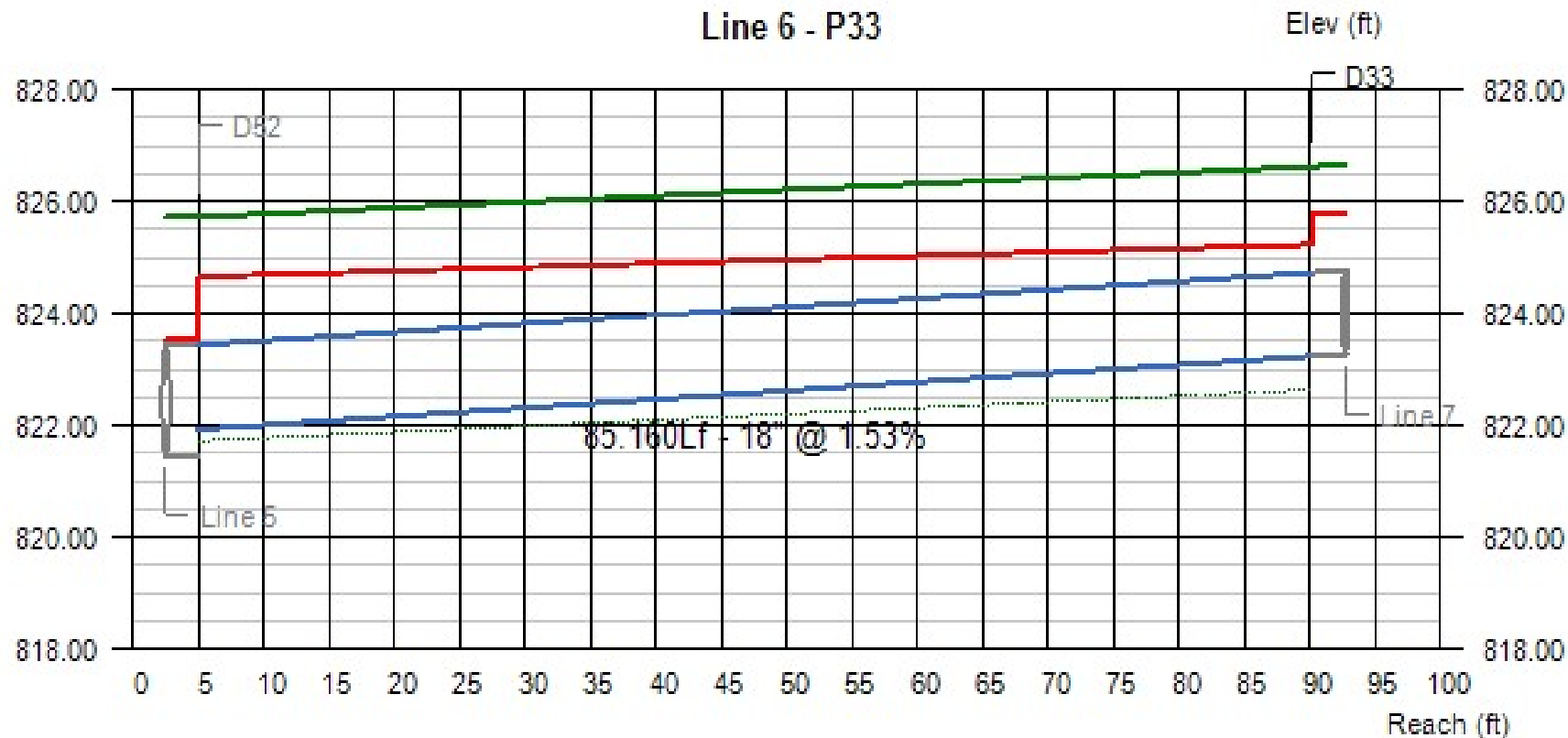
Line Profile (Line 5) - P52



Line #	Q (cfs)	Invert Elevation		Depth of Flow			Hydraulic Grade Line			Velocity		Cover	
		Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Hw (ft)	Dn (ft)	Up (ft)	Jnct (ft)	Dn (ft/s)	Up (ft/s)	Dn (ft)	Up (ft)
5	21.73	821.40	821.43	2.00	2.00	3.23	823.40	823.54	824.66	6.92	6.92	2.29	2.29

Project File:
No. Lines: 21
Run Date: 7/10/20

Line Profile (Line 6) - P33



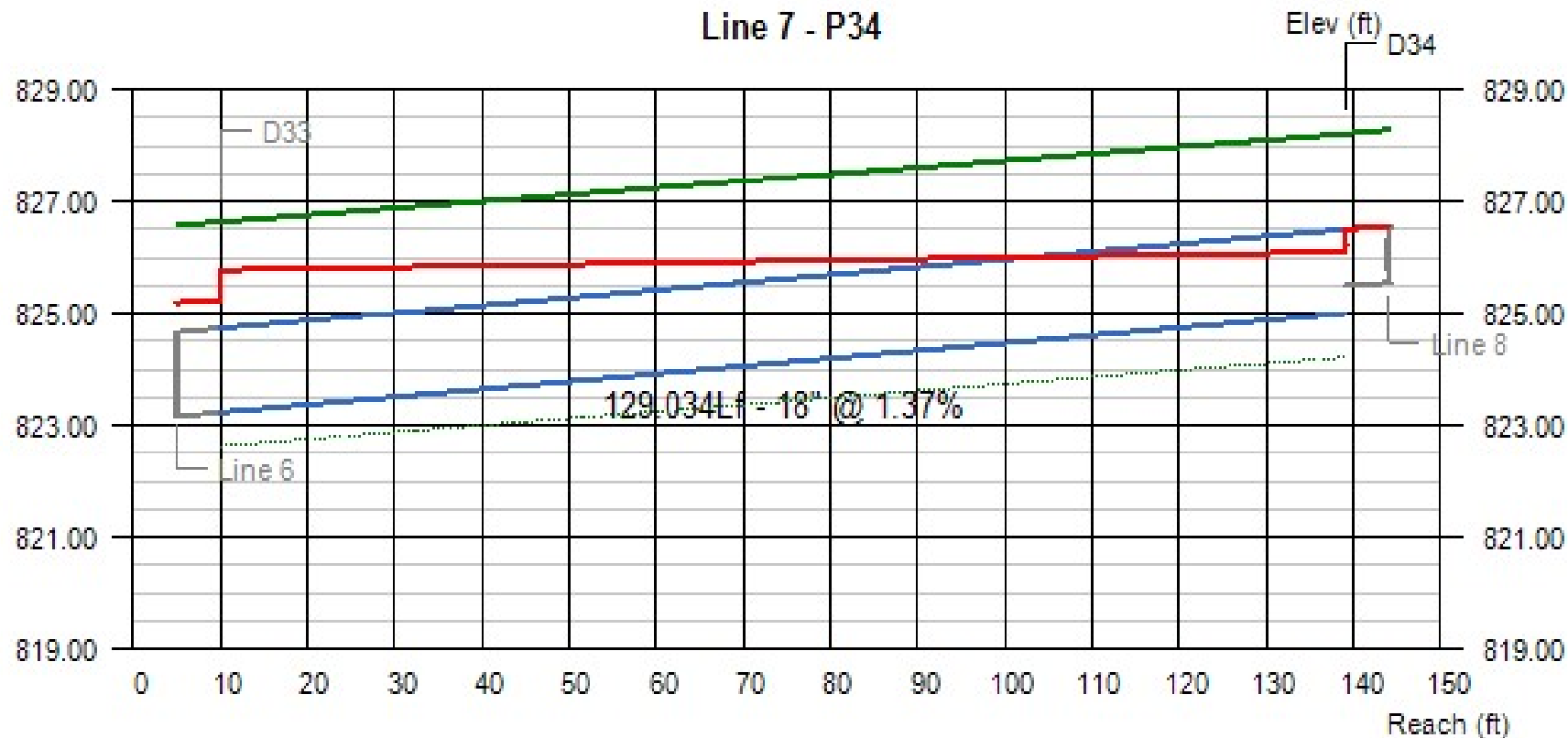
Line #	Q (cfs)	Invert Elevation		Depth of Flow			Hydraulic Grade Line			Velocity		Cover	
		Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Hw (ft)	Dn (ft)	Up (ft)	Jnct (ft)	Dn (ft/s)	Up (ft/s)	Dn (ft)	Up (ft)
6	8.57	821.93	823.23	1.50	1.50	2.55	824.66	825.23	825.78	4.85	4.85	2.29	1.90

Project File:

No. Lines: 21

Run Date: 7/10/20

Line Profile (Line 7) - P34



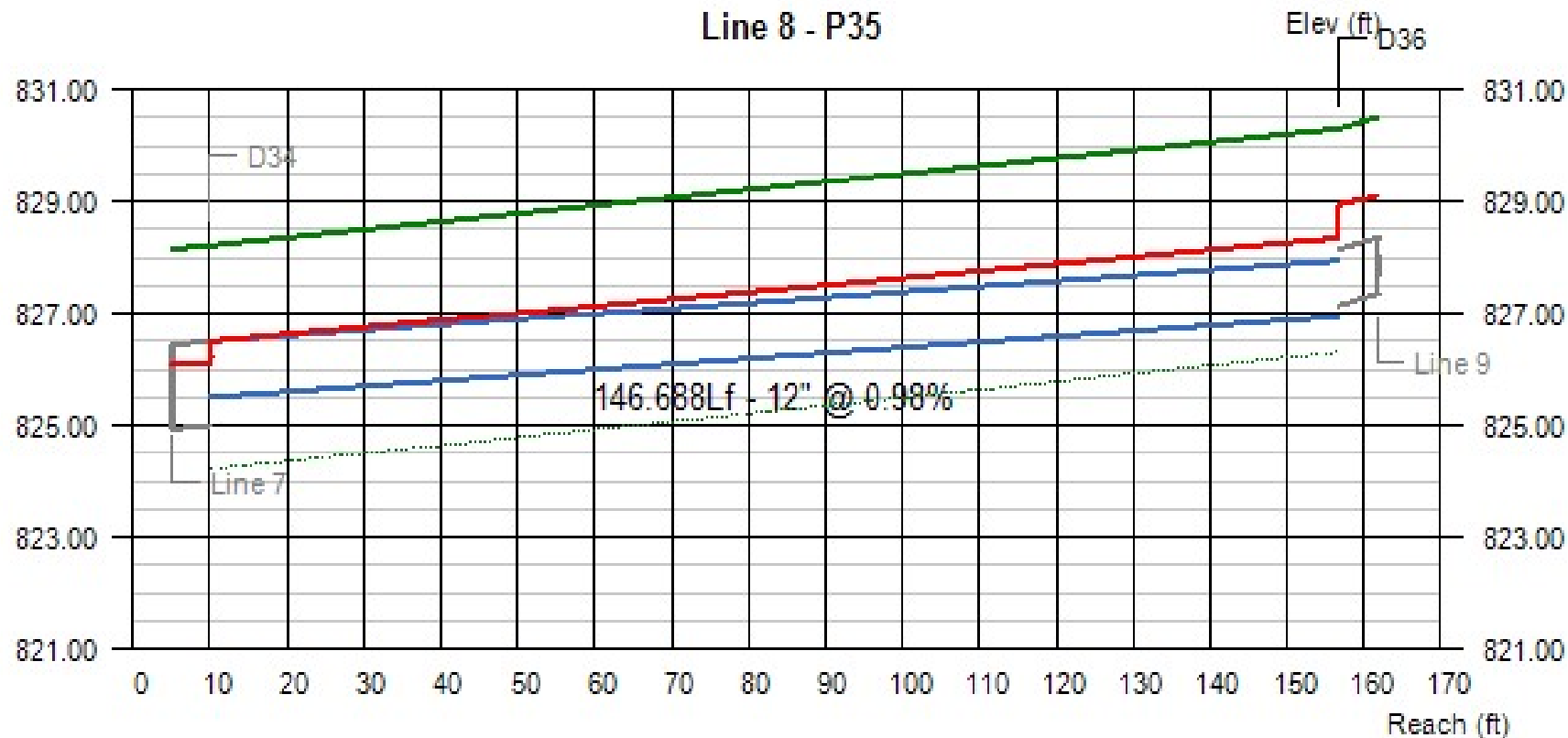
Line #	Q (cfs)	Invert Elevation		Depth of Flow			Hydraulic Grade Line			Velocity		Cover	
		Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Hw (ft)	Dn (ft)	Up (ft)	Jct (ft)	Dn (ft/s)	Up (ft/s)	Dn (ft)	Up (ft)
7	5.62	823.23	825.00	1.50	1.10	1.22	825.78	826.10	826.22	3.18	4.06	1.90	1.71

Project File:

No. Lines: 21

Run Date: 7/10/20

Line Profile (Line 8) - P35



Line #	Q (cfs)	Invert Elevation		Depth of Flow			Hydraulic Grade Line			Velocity		Cover	
		Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Hw (ft)	Dn (ft)	Up (ft)	Jnct (ft)	Dn (ft/s)	Up (ft/s)	Dn (ft)	Up (ft)
8	3.99	825.50	826.94	1.00	1.00	2.01	826.50	828.34	828.95	5.08	5.08	1.71	2.36

Project File:

No. Lines: 21

Run Date: 7/10/20

Line Profile (Line 9) - P48



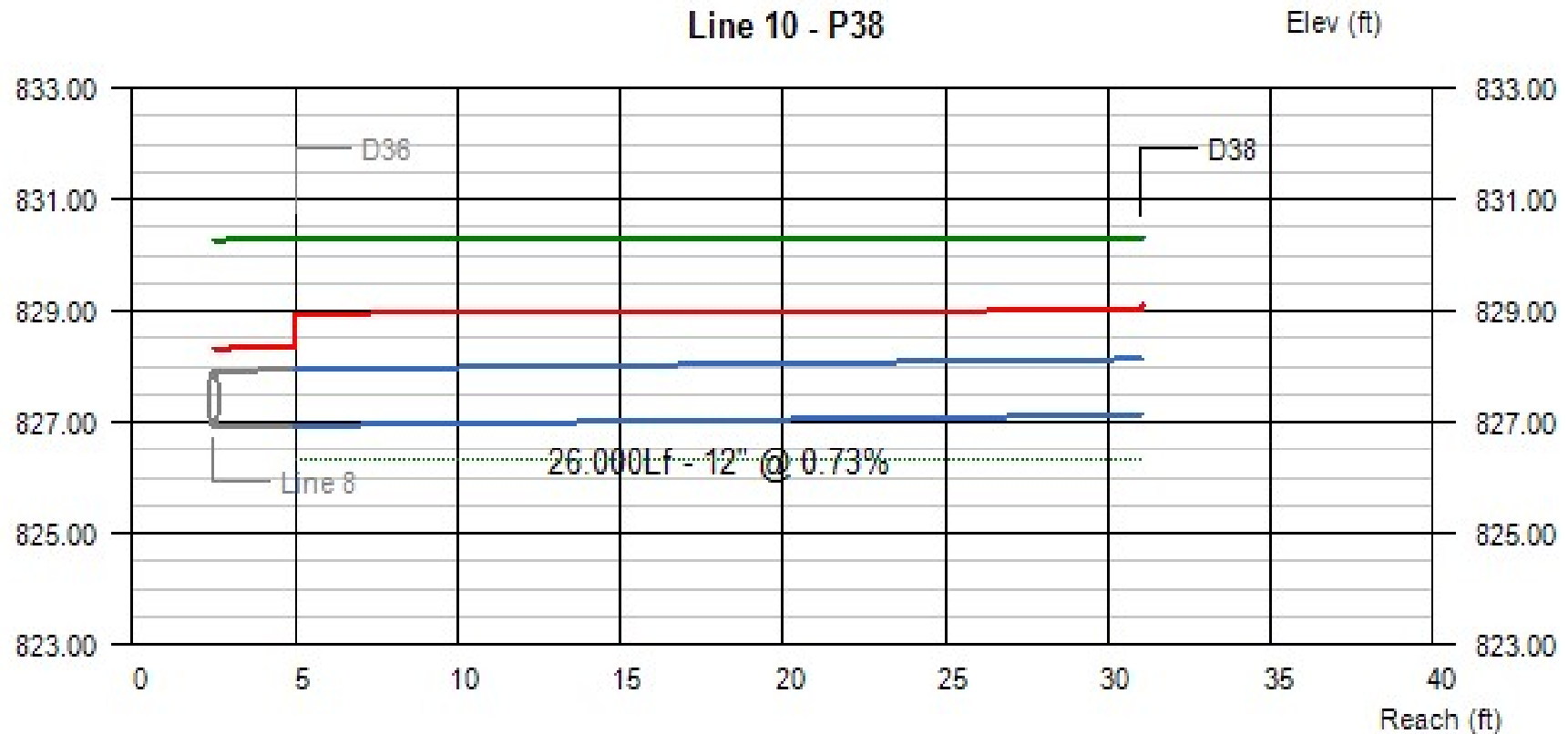
Line #	Q (cfs)	Invert Elevation		Depth of Flow			Hydraulic Grade Line			Velocity		Cover	
		Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Hw (ft)	Dn (ft)	Up (ft)	Jnct (ft)	Dn (ft/s)	Up (ft/s)	Dn (ft)	Up (ft)
9	0.72	827.14	831.80	1.00	0.35	0.35	828.95	832.15 j	832.15	0.92	2.90	2.16	2.00

Project File:

No. Lines: 21

Run Date: 7/10/20

Line Profile (Line 10) - P38



Line #	Q (cfs)	Invert Elevation		Depth of Flow			Hydraulic Grade Line			Velocity		Cover	
		Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Hw (ft)	Dn (ft)	Up (ft)	Jnct (ft)	Dn (ft/s)	Up (ft/s)	Dn (ft)	Up (ft)
10	1.83	826.94	827.13	1.00	1.00	1.97	828.95	829.02	829.10	2.33	2.33	2.36	2.17

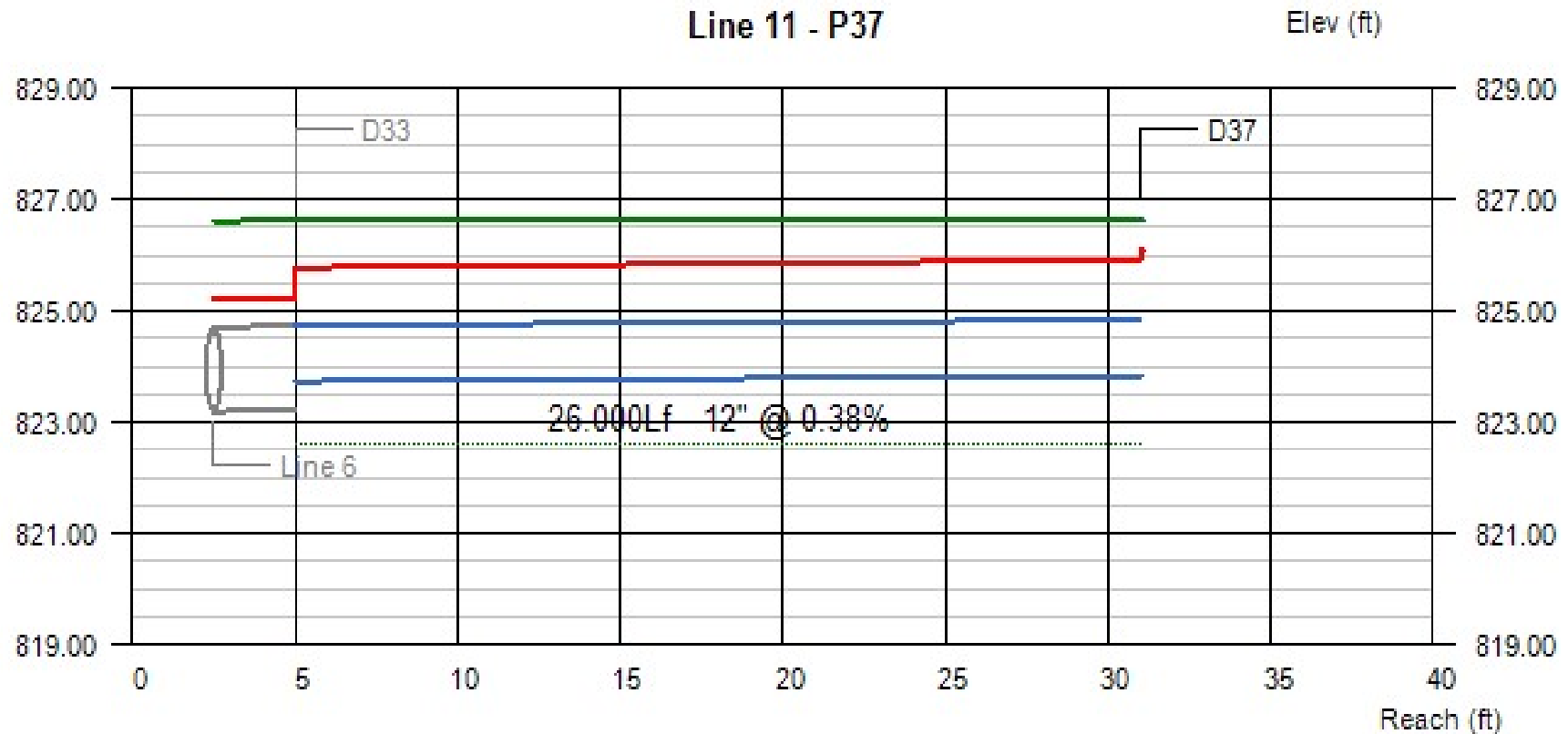
Project File:

No. Lines: 21

Run Date: 7/10/20

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Line Profile (Line 11) - P37



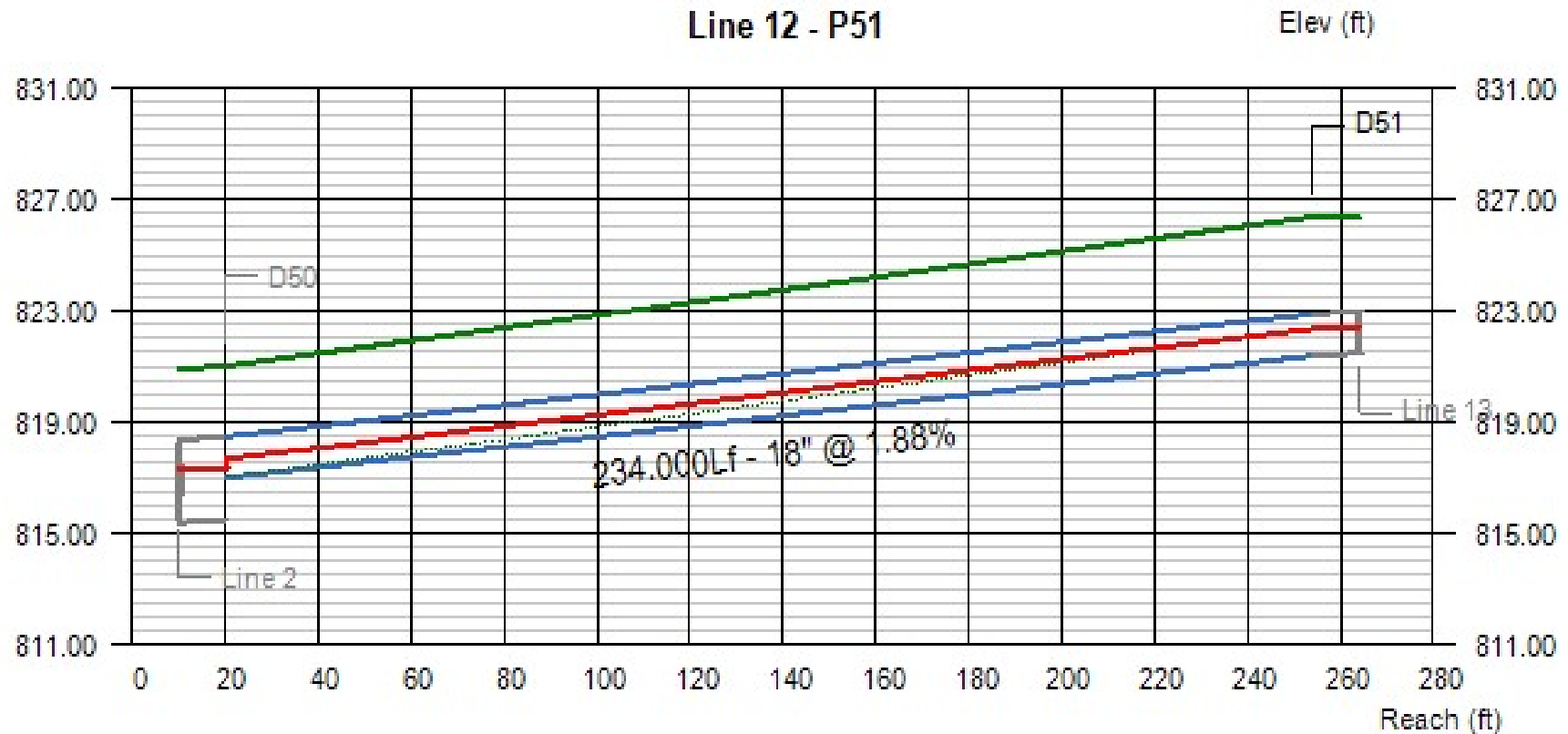
Line #	Q (cfs)	Invert Elevation		Depth of Flow			Hydraulic Grade Line			Velocity		Cover	
		Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Hw (ft)	Dn (ft)	Up (ft)	Jnct (ft)	Dn (ft/s)	Up (ft/s)	Dn (ft)	Up (ft)
11	2.64	823.73	823.83	1.00	1.00	2.26	825.78	825.92	826.09	3.36	3.36	1.90	1.80

Project File:

No. Lines: 21

Run Date: 7/10/20

Line Profile (Line 12) - P51



Line #	Q (cfs)	Invert Elevation		Depth of Flow			Hydraulic Grade Line			Velocity		Cover	
		Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Hw (ft)	Dn (ft)	Up (ft)	Jct (ft)	Dn (ft/s)	Up (ft/s)	Dn (ft)	Up (ft)
12	6.12	816.98	821.37	0.68	0.96	0.96	817.66	822.33	822.33	7.81	5.16	2.52	3.50

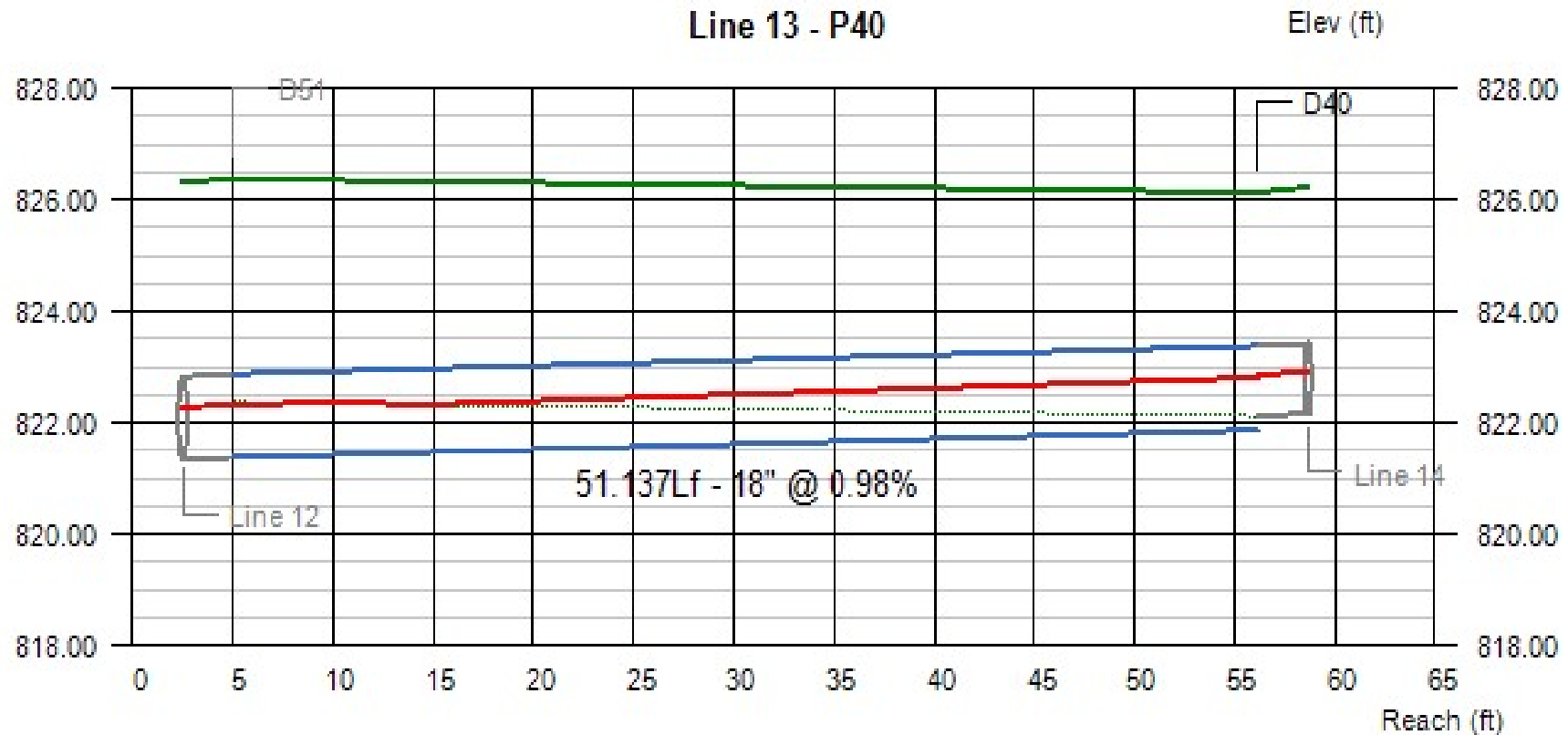
Project File:

No. Lines: 21

Run Date: 7/10/20

166

Line Profile (Line 13) - P40



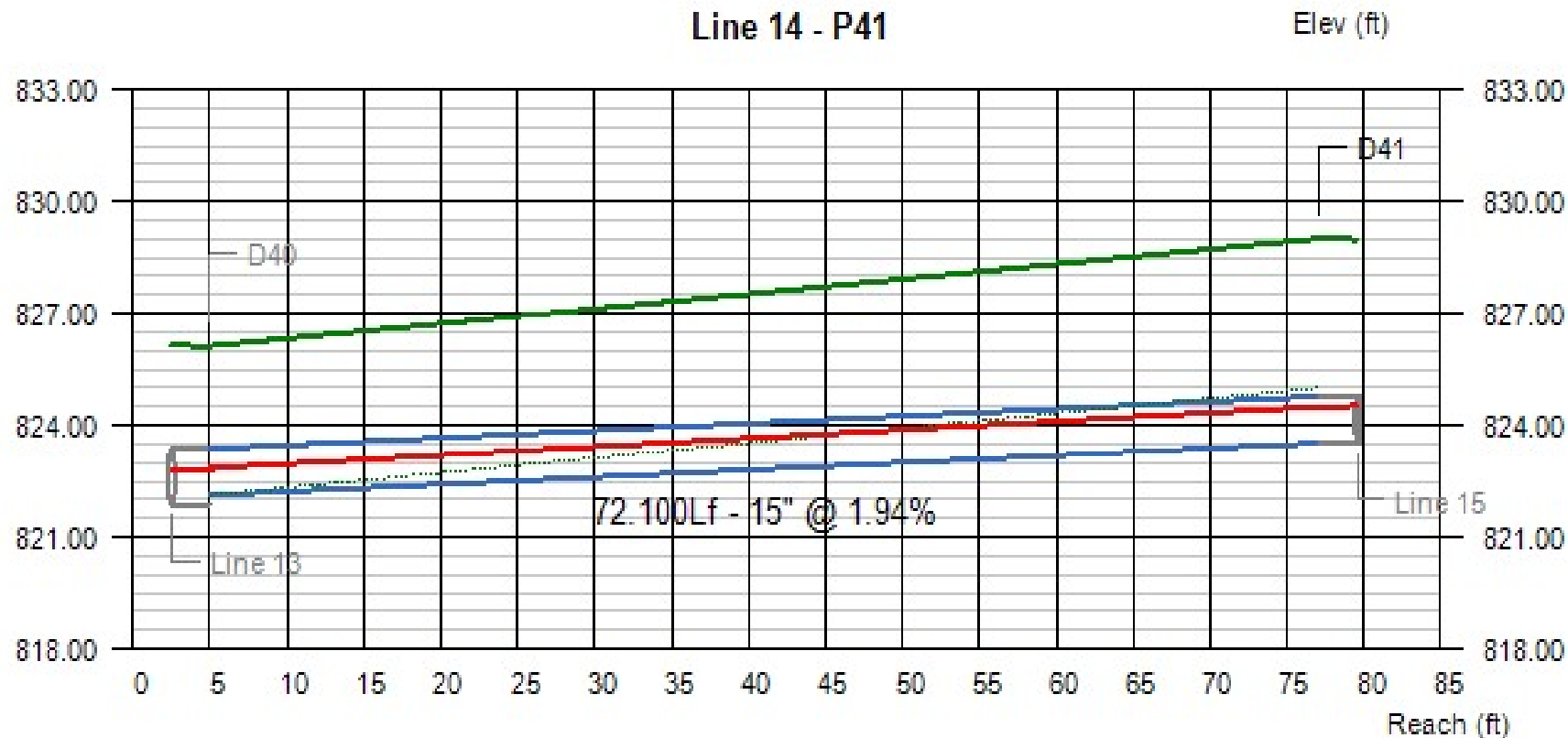
Line #	Q (cfs)	Invert Elevation		Depth of Flow			Hydraulic Grade Line			Velocity		Cover	
		Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Hw (ft)	Dn (ft)	Up (ft)	Jnct (ft)	Dn (ft/s)	Up (ft/s)	Dn (ft)	Up (ft)
13	5.91	821.37	821.87	0.96	0.94	0.94	822.33	822.81 j	822.81	4.98	5.08	3.50	2.75

Project File:

No. Lines: 21

Run Date: 7/10/20

Line Profile (Line 14) - P41



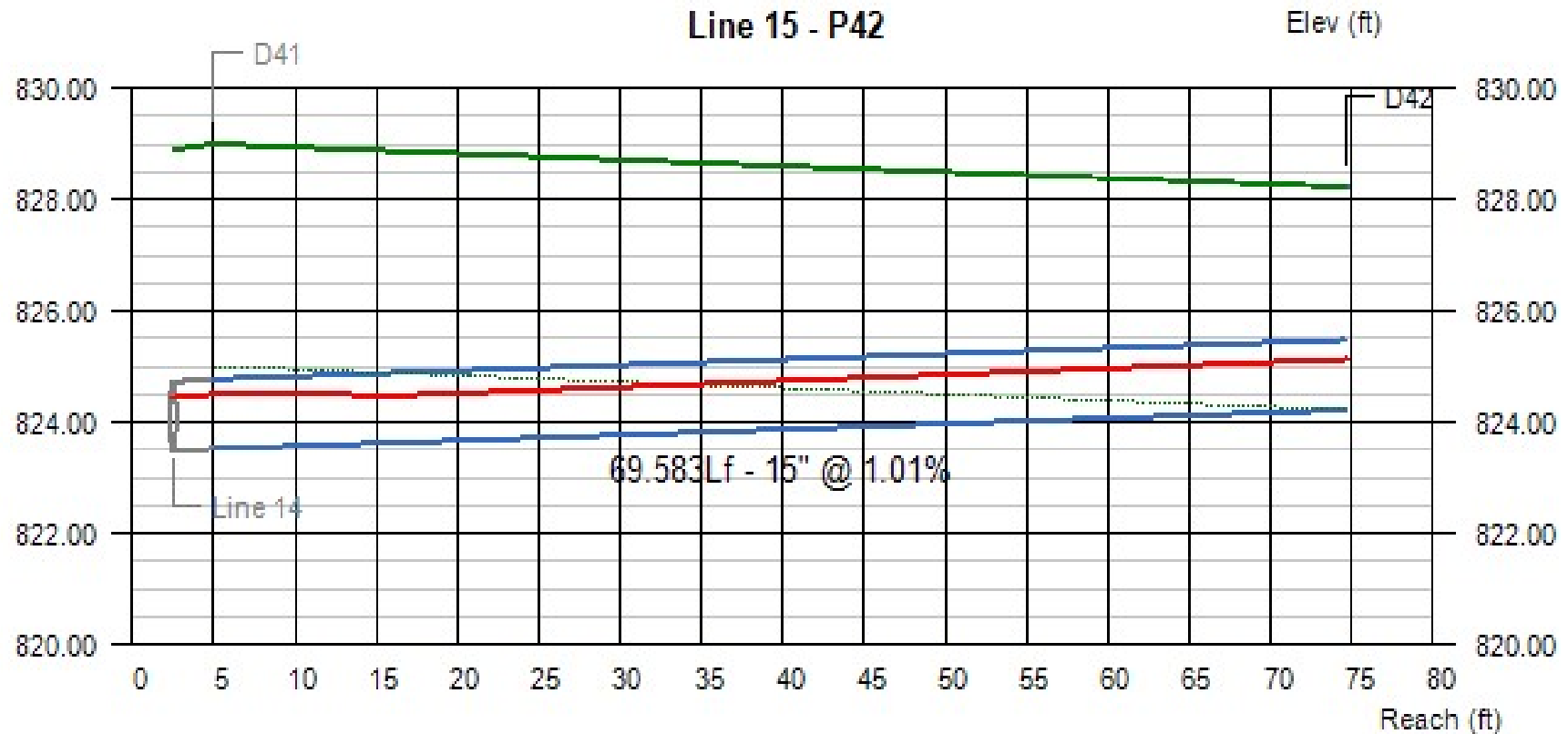
Line #	Q (cfs)	Invert Elevation		Depth of Flow			Hydraulic Grade Line			Velocity		Cover	
		Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Hw (ft)	Dn (ft)	Up (ft)	Jnct (ft)	Dn (ft/s)	Up (ft/s)	Dn (ft)	Up (ft)
14	5.84	822.12	823.52	0.73	0.98	0.98	822.85	824.50	824.50	7.80	5.67	2.75	4.23

Project File:

No. Lines: 21

Run Date: 7/10/20

Line Profile (Line 15) - P42



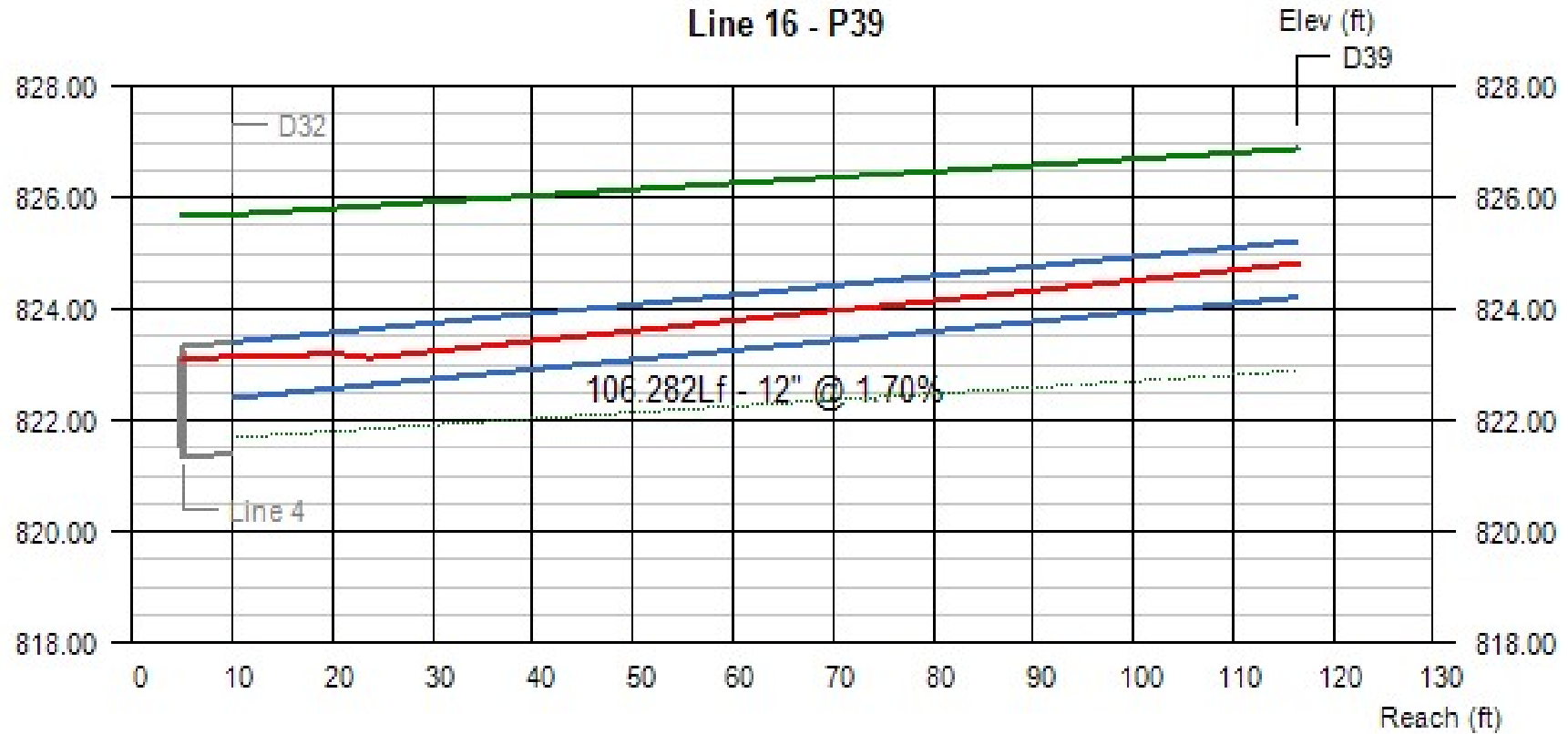
Line #	Q (cfs)	Invert Elevation		Depth of Flow			Hydraulic Grade Line			Velocity		Cover	
		Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Hw (ft)	Dn (ft)	Up (ft)	Jnct (ft)	Dn (ft/s)	Up (ft/s)	Dn (ft)	Up (ft)
15	4.98	823.52	824.22	0.98	0.90	0.90	824.50	825.12 j	825.12	4.84	5.24	4.23	2.75

Project File:

No. Lines: 21

Run Date: 7/10/20

Line Profile (Line 16) - P39



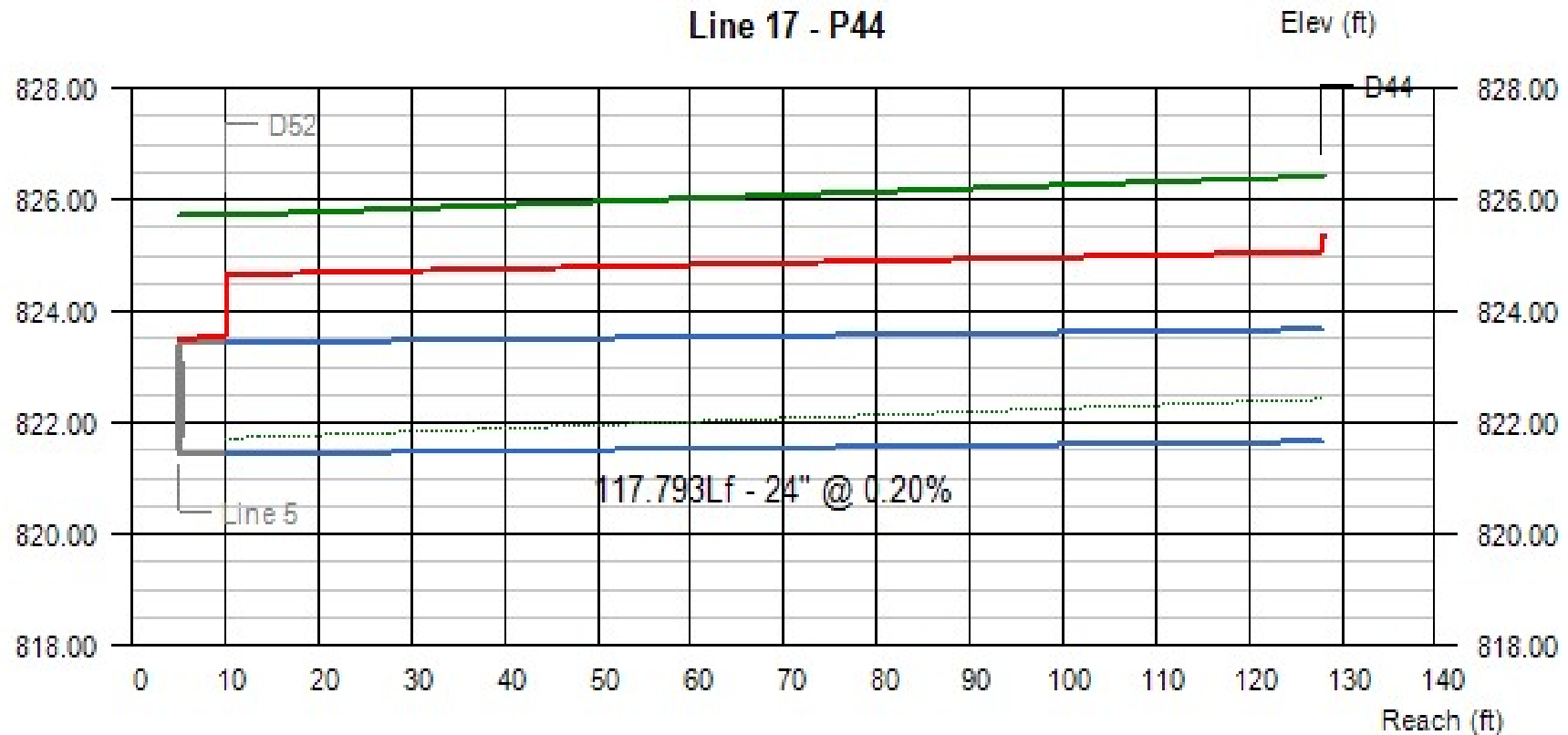
Line #	Q (cfs)	Invert Elevation		Depth of Flow			Hydraulic Grade Line			Velocity		Cover	
		Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Hw (ft)	Dn (ft)	Up (ft)	Jnct (ft)	Dn (ft/s)	Up (ft/s)	Dn (ft)	Up (ft)
16	2.01	822.40	824.21	0.74	0.60	0.60	823.14	824.81 j	824.81	3.21	4.05	2.29	1.67

Project File:

No. Lines: 21

Run Date: 7/10/20

Line Profile (Line 17) - P44



Line #	Q (cfs)	Invert Elevation		Depth of Flow			Hydraulic Grade Line			Velocity		Cover	
		Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Hw (ft)	Dn (ft)	Up (ft)	Jnct (ft)	Dn (ft/s)	Up (ft/s)	Dn (ft)	Up (ft)
17	13.28	821.43	821.67	2.00	2.00	3.67	824.66	825.07	825.34	4.23	4.23	2.29	2.75

Project File:

No. Lines: 21

Run Date: 7/10/20

Line Profile (Line 18) - P56



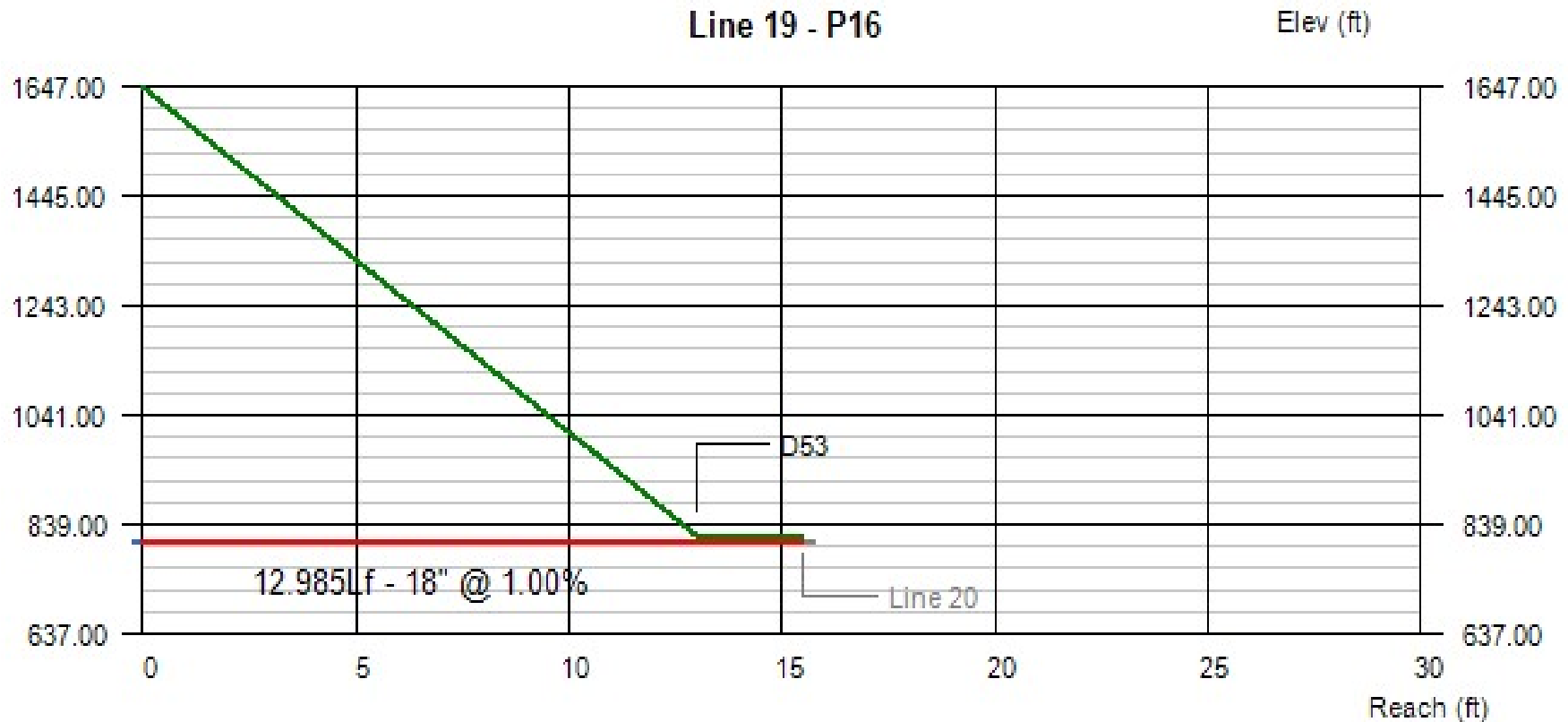
Line #	Q (cfs)	Invert Elevation		Depth of Flow			Hydraulic Grade Line			Velocity		Cover	
		Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Hw (ft)	Dn (ft)	Up (ft)	Jnct (ft)	Dn (ft/s)	Up (ft/s)	Dn (ft)	Up (ft)
18	3.24	819.74	822.00	0.57	0.77	0.77	820.31	822.77	822.77	7.08	4.99	2.00	2.01

Project File:

No. Lines: 21

Run Date: 7/10/20

Line Profile (Line 19) - P16



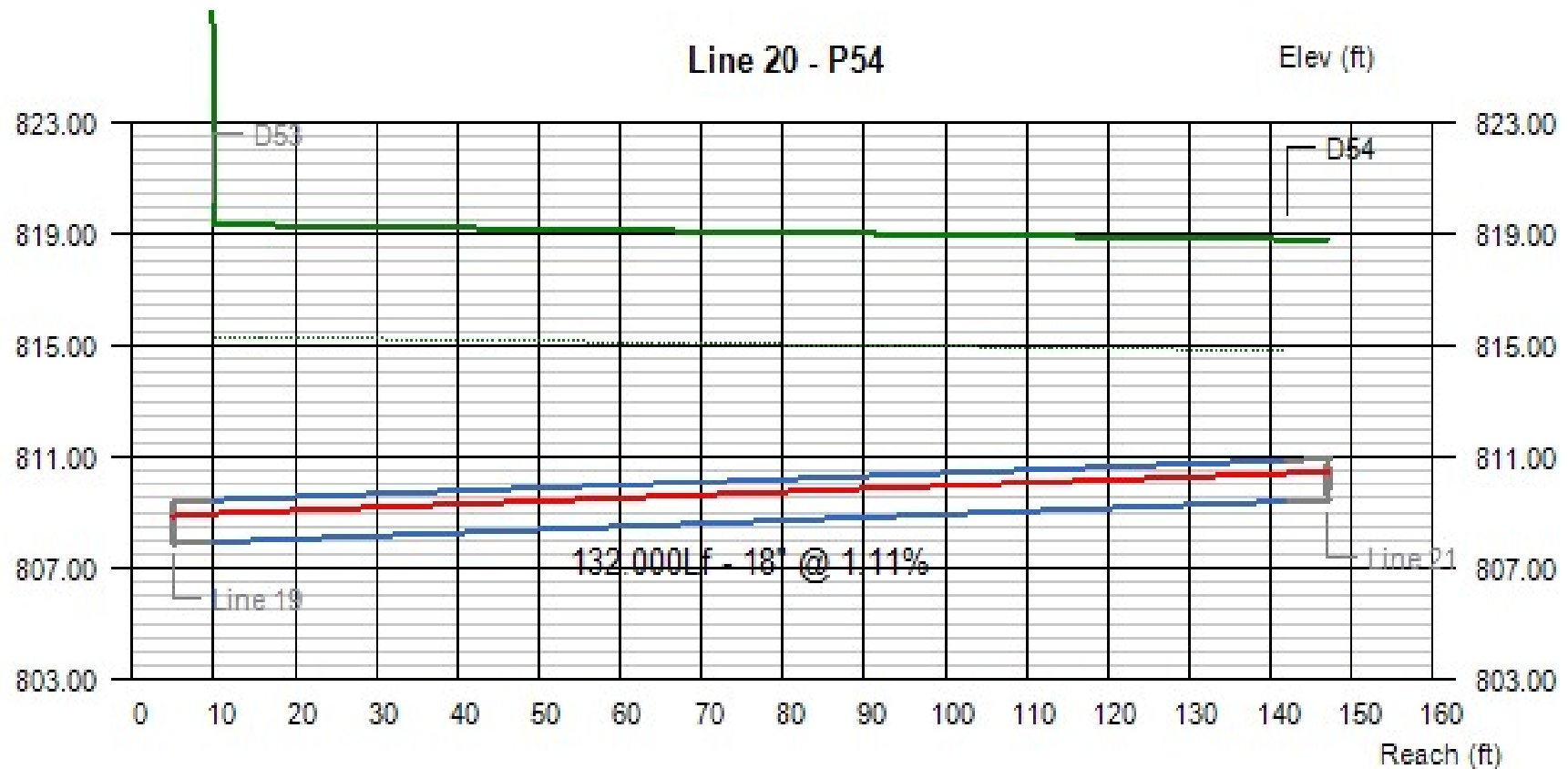
Line #	Q (cfs)	Invert Elevation		Depth of Flow			Hydraulic Grade Line			Velocity		Cover	
		Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Hw (ft)	Dn (ft)	Up (ft)	Jct (ft)	Dn (ft/s)	Up (ft/s)	Dn (ft)	Up (ft)
19	6.96	807.80	807.93	0.89	1.02	1.02	808.69	808.95	808.95	6.36	5.44	837.00	9.90

Project File:

No. Lines: 21

Run Date: 7/10/20

Line Profile (Line 20) - P54



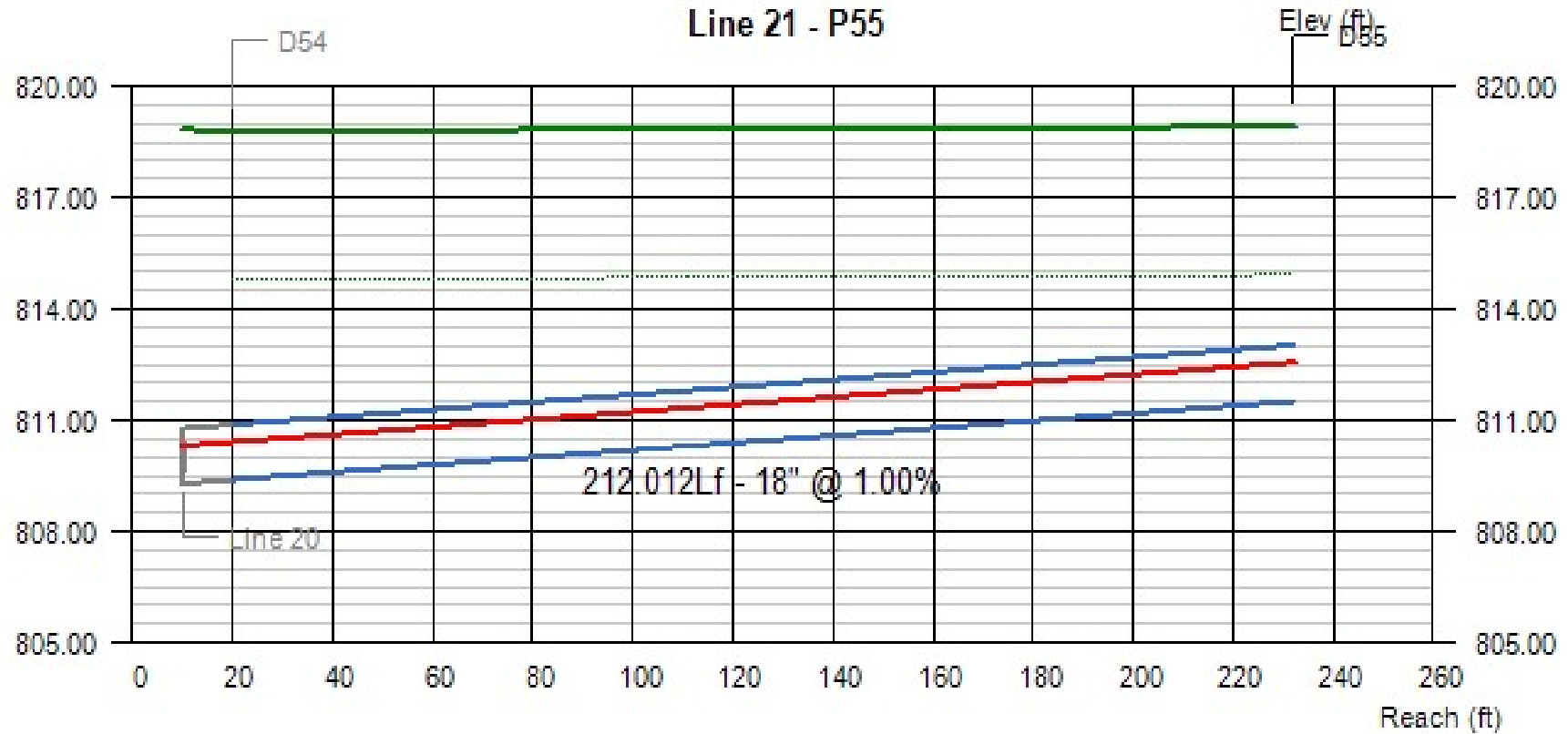
Line #	Q (cfs)	Invert Elevation		Depth of Flow			Hydraulic Grade Line			Velocity		Cover	
		Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Hw (ft)	Dn (ft)	Up (ft)	Jnct (ft)	Dn (ft/s)	Up (ft/s)	Dn (ft)	Up (ft)
20	7.07	807.93	809.39	1.02	1.03	1.03	808.95	810.42	810.42	5.52	5.47	9.90	7.91

Project File:

No. Lines: 21

Run Date: 7/10/20

Line Profile (Line 21) - P55



Line #	Q (cfs)	Invert Elevation		Depth of Flow			Hydraulic Grade Line			Velocity		Cover	
		Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Hw (ft)	Dn (ft)	Up (ft)	Jnct (ft)	Dn (ft/s)	Up (ft/s)	Dn (ft)	Up (ft)
21	7.26	809.39	811.51	1.03	1.04	1.04	810.42	812.55	812.55	5.62	5.54	7.91	5.91

Project File:

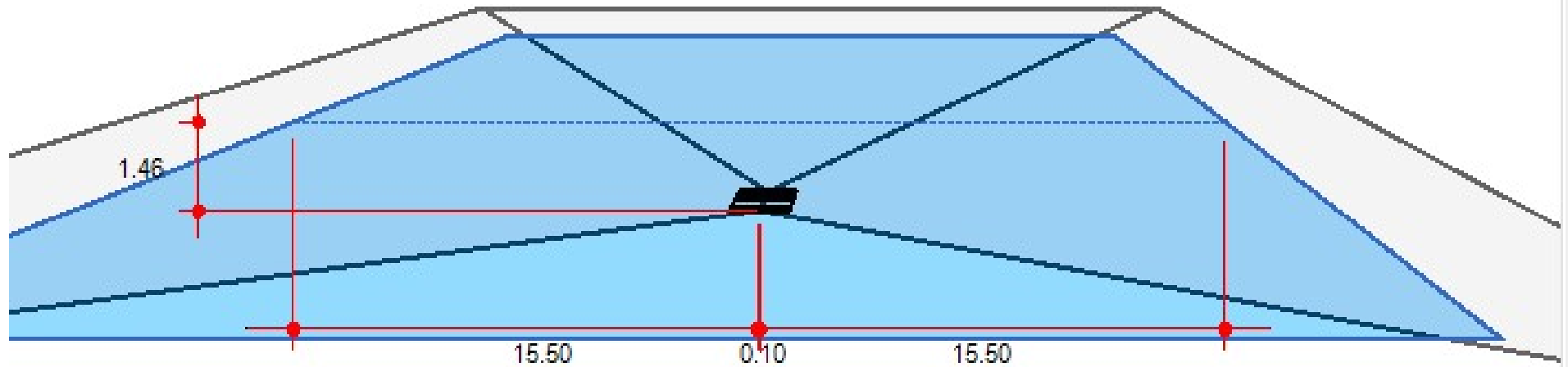
No. Lines: 21

Run Date: 7/10/20

Inlet Section (Line 1 - Drop Grate Inlet) - D29

All dimensions in feet

Line 1 - Drop Grate Inlet in Sag - D29



Line #	Q				Inlet			Gutter				Depth		Spread		Byp
	Catch (cfs)	Carry (cfs)	Capt (cfs)	Byp (cfs)	Length (ft)	Depr (in)	Area (sqft)	Width (ft)	Slope (ft/ft)	Sw (ft/ft)	Sx (ft/ft)	Gutter (ft)	Inlet (ft)	Gutter (ft)	Inlet (ft)	Line (ft)
1	12.96	0.00	12.96	0.00	2.00	....	2.00	0.10	Sag	0.100	0.100	1.46	31.10	n/a	n/a	Sag

Project File:

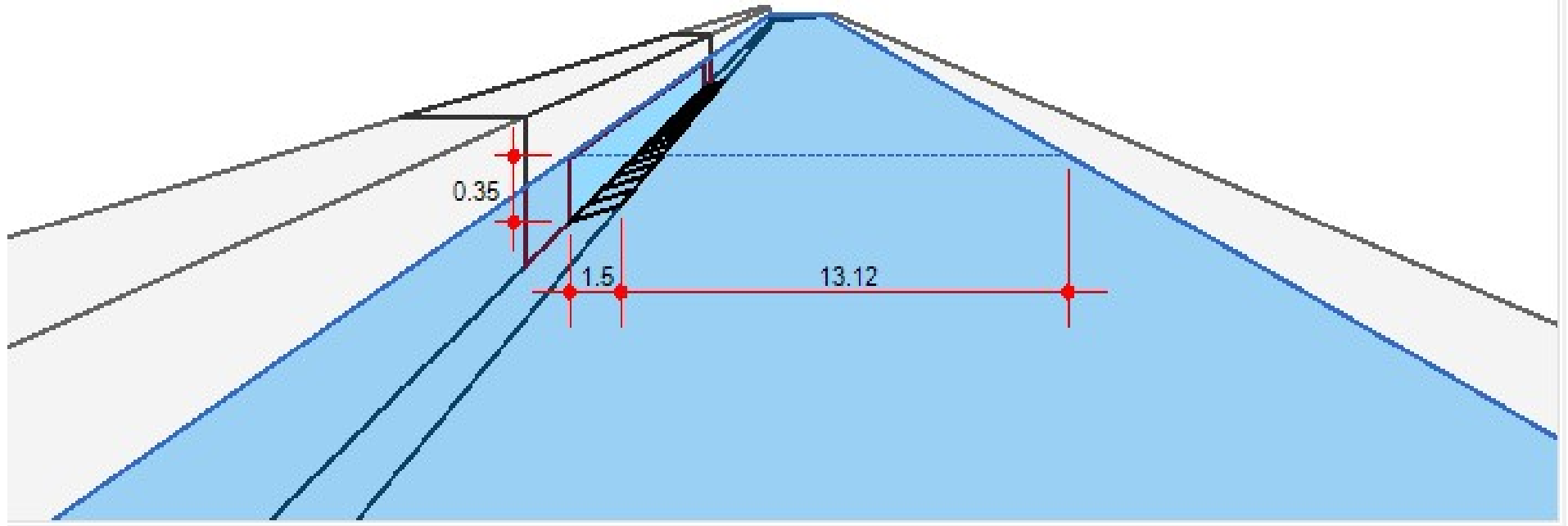
No. Lines: 21

Run Date: 7/10/20

Inlet Section (Line 3 - Combination Inlet) - D30

All dimensions in feet

Line 3 - Combination Inlet in Sag - D30



Line #	Q				Inlet			Gutter				Depth		Spread		Byp
	Catch (cfs)	Carry (cfs)	Capt (cfs)	Byp (cfs)	Length (ft)	Depr (in)	Throat (in)	Width (ft)	Slope (ft/ft)	Sw (ft/ft)	Sx (ft/ft)	Gutter (ft)	Inlet (ft)	Gutter (ft)	Inlet (ft)	Line (ft)
3	4.71	1.42	6.13	0.00	9.00	0.0	4.0	1.50	Sag	0.060	0.020	0.35	14.62	n/a	n/a	Sag

Project File:

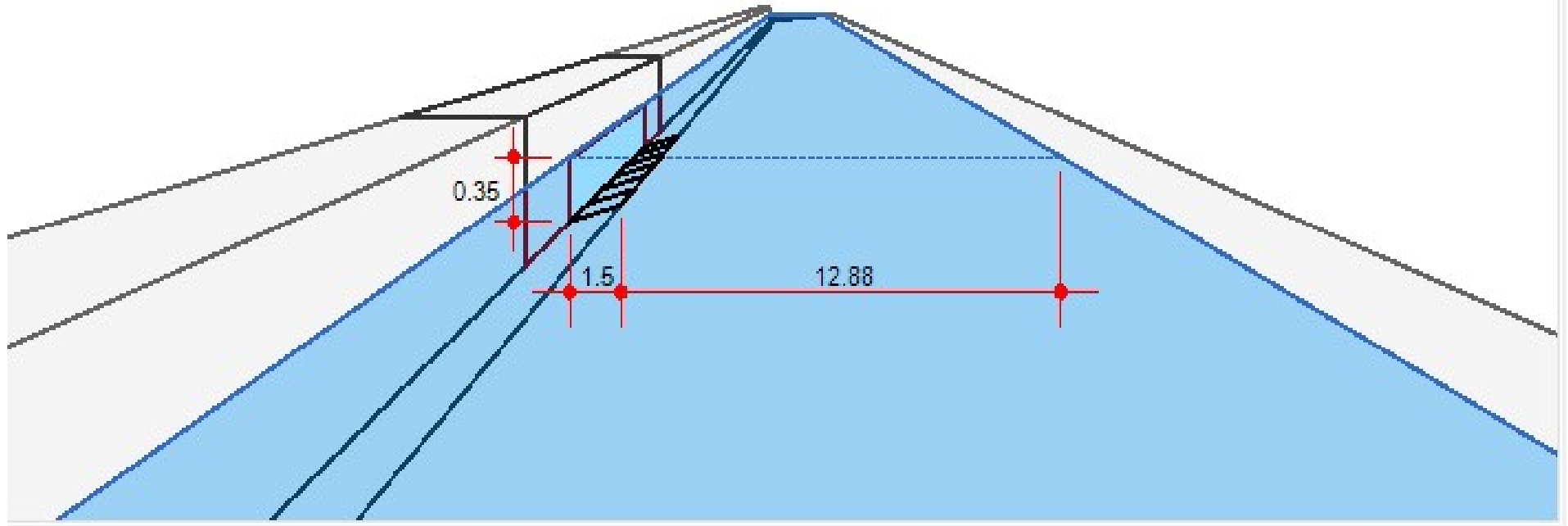
No. Lines: 21

Run Date: 7/10/20

Inlet Section (Line 4 - Combination Inlet) - D32

All dimensions in feet

Line 4 - Combination Inlet in Sag - D32



Line #	Q				Inlet			Gutter				Depth		Spread		Byp
	Catch (cfs)	Carry (cfs)	Capt (cfs)	Byp (cfs)	Length (ft)	Depr (in)	Throat (in)	Width (ft)	Slope (ft/ft)	Sw (ft/ft)	Sx (ft/ft)	Gutter (ft)	Inlet (ft)	Gutter (ft)	Inlet (ft)	Line (ft)
4	1.93	1.07	3.00	0.00	3.00	0.0	4.0	1.50	Sag	0.060	0.020	0.35	14.38	n/a	n/a	Sag

Project File:

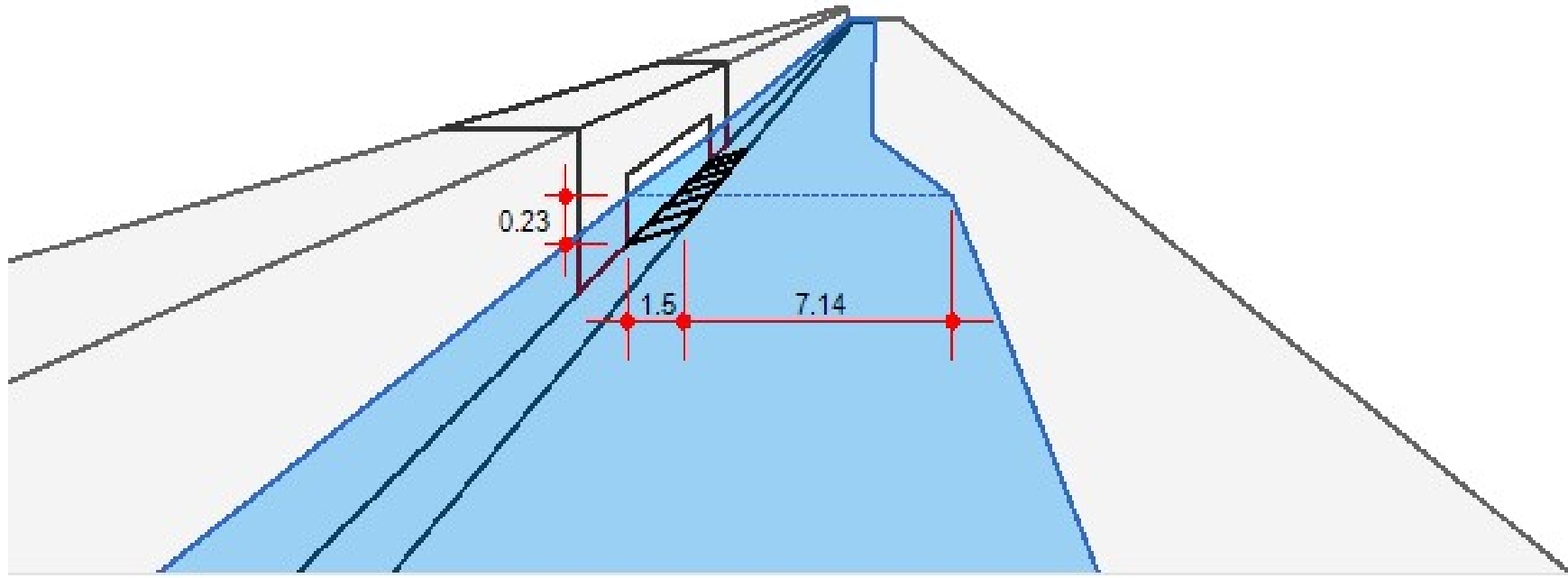
No. Lines: 21

Run Date: 7/10/20

Inlet Section (Line 5 - Combination Inlet) - D52

All dimensions in feet

Line 5 - Combination Inlet on Grade - D52

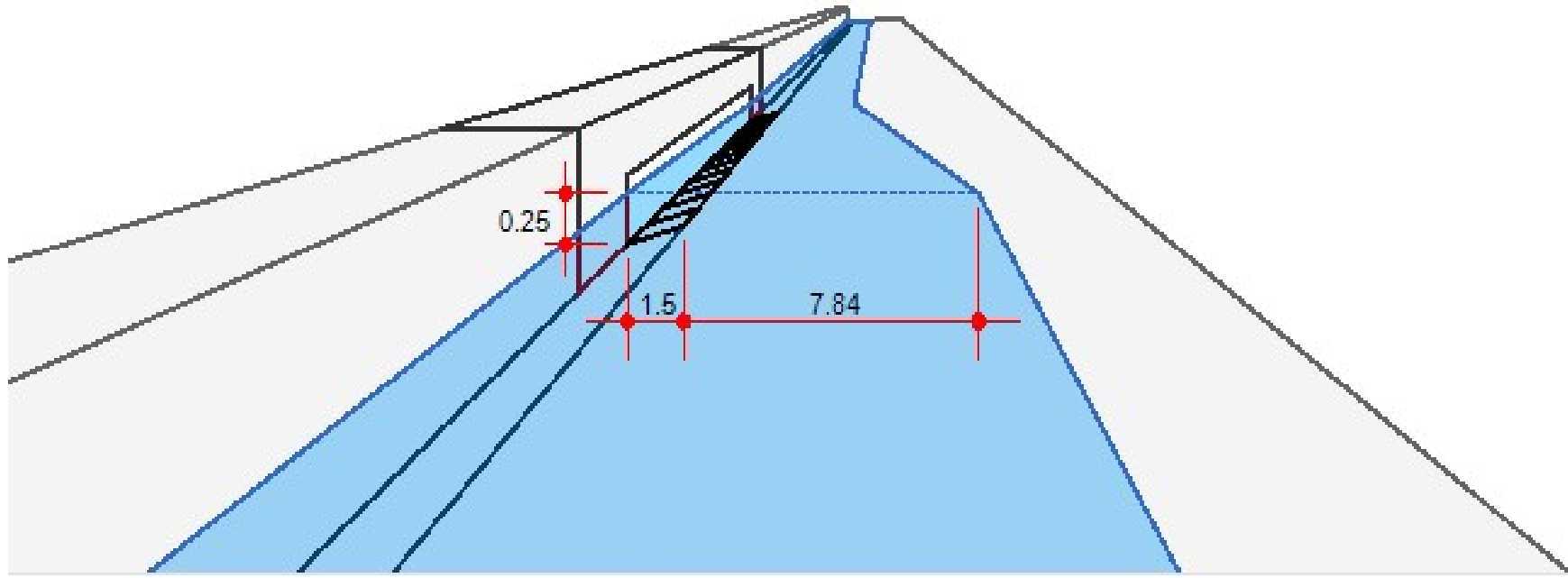


Line #	Q				Inlet			Gutter				Depth		Spread		Byp
	Catch (cfs)	Carry (cfs)	Capt (cfs)	Byp (cfs)	Length (ft)	Depr (in)	Throat (in)	Width (ft)	Slope (ft/ft)	Sw (ft/ft)	Sx (ft/ft)	Gutter (ft)	Inlet (ft)	Gutter (ft)	Inlet (ft)	Line (ft)
5	1.62	0.84	1.39	1.07	3.00	0.0	4.0	1.50	0.010	0.060	0.020	0.23	8.64	0.18	6.03	4
Project File:										No. Lines: 21			Run Date: 7/10/20			179

Inlet Section (Line 6 - Combination Inlet) - D33

All dimensions in feet

Line 6 - Combination Inlet on Grade - D33



Line #	Q				Inlet			Gutter				Depth		Spread		Byp
	Catch (cfs)	Carry (cfs)	Capt (cfs)	Byp (cfs)	Length (ft)	Depr (in)	Throat (in)	Width (ft)	Slope (ft/ft)	Sw (ft/ft)	Sx (ft/ft)	Gutter (ft)	Inlet (ft)	Gutter (ft)	Inlet (ft)	Line (ft)
6	1.93	1.04	2.14	0.84	6.00	0.0	4.0	1.50	0.010	0.060	0.020	0.25	9.34	0.17	5.39	5

Project File:

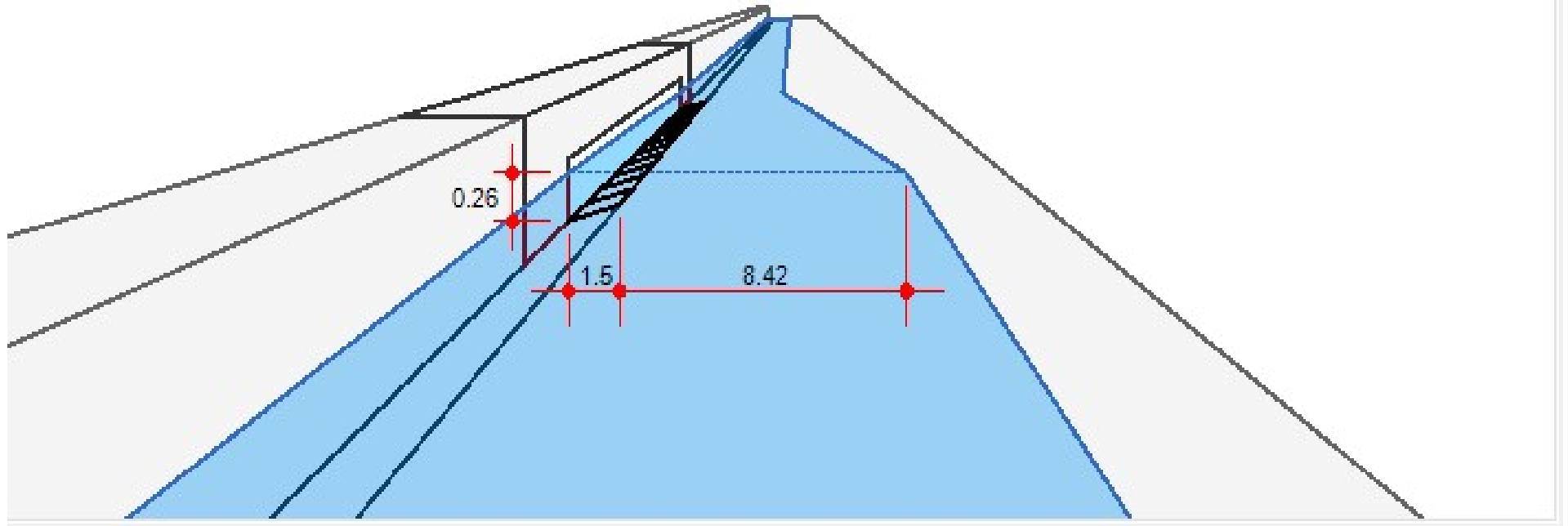
No. Lines: 21

Run Date: 7/10/20

Inlet Section (Line 7 - Combination Inlet) - D34

All dimensions in feet

Line 7 - Combination Inlet on Grade - D34



Line #	Q				Inlet			Gutter				Depth		Spread		Byp
	Catch (cfs)	Carry (cfs)	Capt (cfs)	Byp (cfs)	Length (ft)	Depr (in)	Throat (in)	Width (ft)	Slope (ft/ft)	Sw (ft/ft)	Sx (ft/ft)	Gutter (ft)	Inlet (ft)	Gutter (ft)	Inlet (ft)	Line (ft)
7	2.47	0.98	2.41	1.04	6.00	0.0	4.0	1.50	0.010	0.060	0.020	0.26	9.92	0.18	5.97	6

Project File:

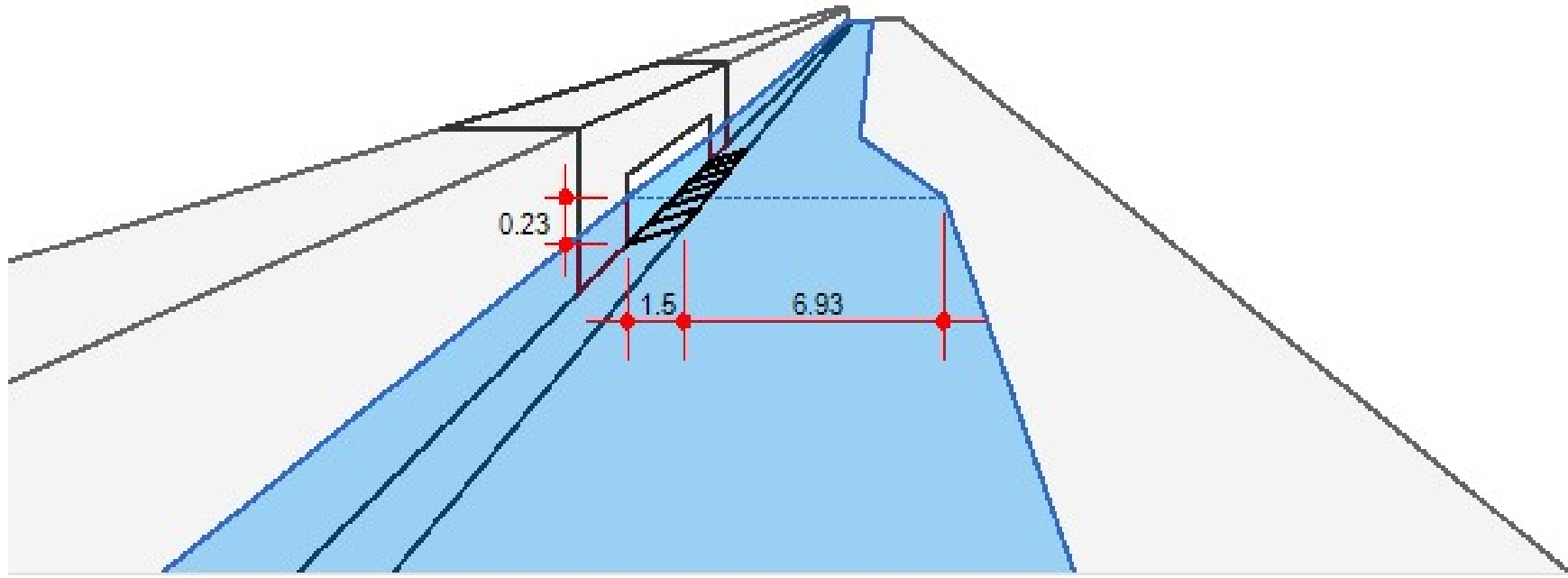
No. Lines: 21

Run Date: 7/10/20

Inlet Section (Line 8 - Combination Inlet) - D36

All dimensions in feet

Line 8 - Combination Inlet on Grade - D36



Line #	Q				Inlet			Gutter				Depth		Spread		Byp
	Catch (cfs)	Carry (cfs)	Capt (cfs)	Byp (cfs)	Length (ft)	Depr (in)	Throat (in)	Width (ft)	Slope (ft/ft)	Sw (ft/ft)	Sx (ft/ft)	Gutter (ft)	Inlet (ft)	Gutter (ft)	Inlet (ft)	Line (ft)
8	2.17	0.15	1.34	0.98	3.00	0.0	4.0	1.50	0.010	0.060	0.020	0.23	8.43	0.18	5.80	7

Project File:

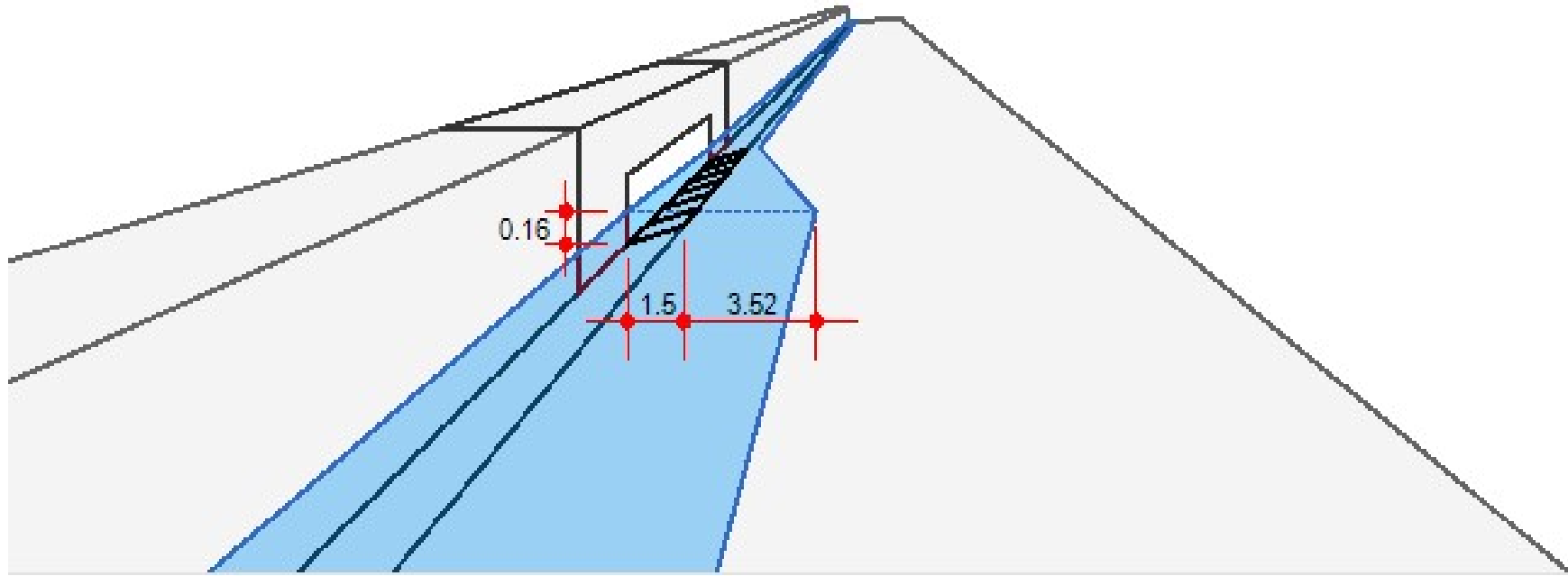
No. Lines: 21

Run Date: 7/10/20

Inlet Section (Line 9 - Combination Inlet) - D48

All dimensions in feet

Line 9 - Combination Inlet on Grade - D48



Line #	Q				Inlet			Gutter				Depth		Spread		Byp
	Catch (cfs)	Carry (cfs)	Capt (cfs)	Byp (cfs)	Length (ft)	Depr (in)	Throat (in)	Width (ft)	Slope (ft/ft)	Sw (ft/ft)	Sx (ft/ft)	Gutter (ft)	Inlet (ft)	Gutter (ft)	Inlet (ft)	Line (ft)
9	0.72	0.00	0.57	0.15	3.00	0.0	4.0	1.50	0.010	0.060	0.020	0.16	5.02	0.10	1.77	8

Project File:

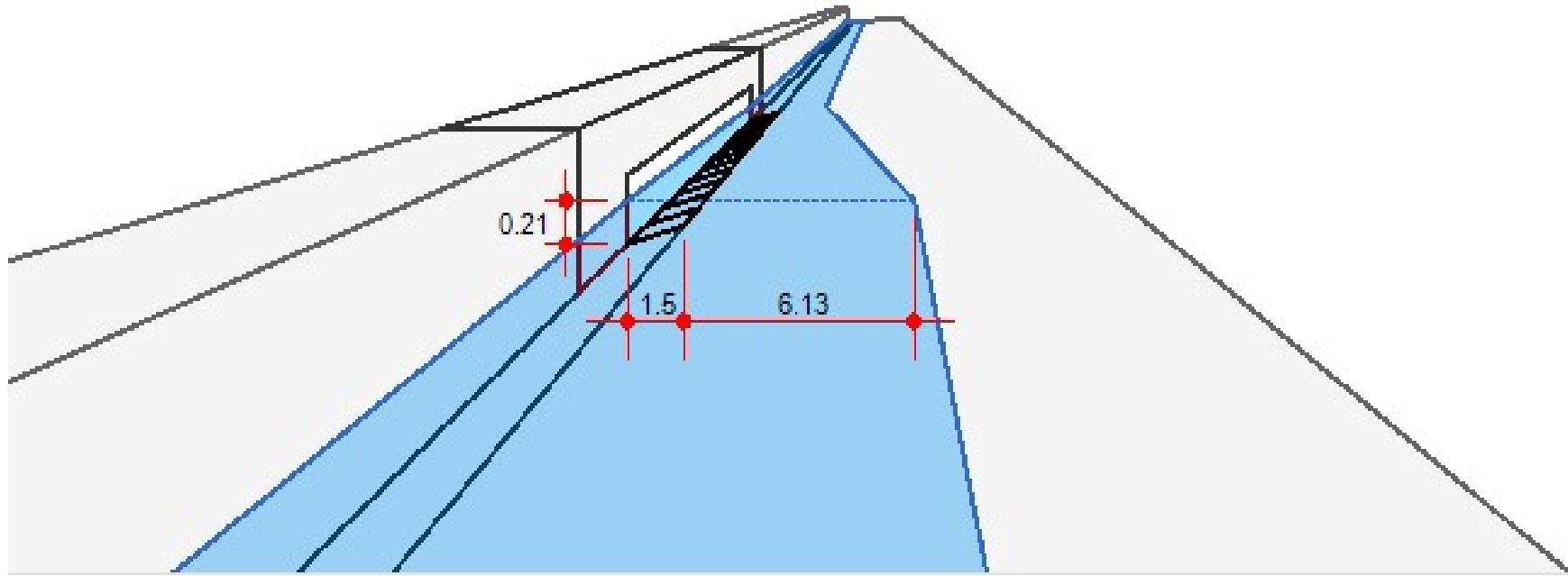
No. Lines: 21

Run Date: 7/10/20

Inlet Section (Line 10 - Combination Inlet) - D38

All dimensions in feet

Line 10 - Combination Inlet on Grade - D38



Line #	Q				Inlet			Gutter				Depth		Spread		Byp
	Catch (cfs)	Carry (cfs)	Capt (cfs)	Byp (cfs)	Length (ft)	Depr (in)	Throat (in)	Width (ft)	Slope (ft/ft)	Sw (ft/ft)	Sx (ft/ft)	Gutter (ft)	Inlet (ft)	Gutter (ft)	Inlet (ft)	Line (ft)
10	1.83	0.00	1.44	0.39	6.00	0.0	4.0	1.50	0.010	0.060	0.020	0.21	7.63	0.13	3.66	11

Project File:

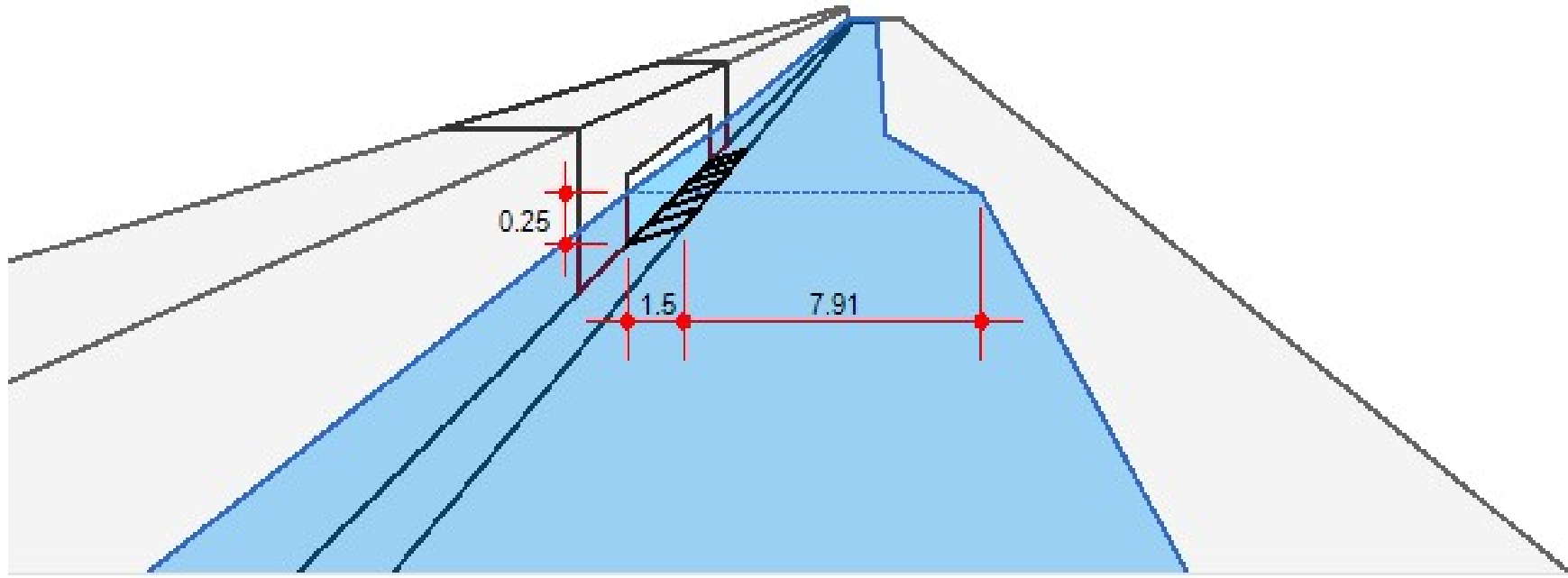
No. Lines: 21

Run Date: 7/10/20

Inlet Section (Line 11 - Combination Inlet) - D37

All dimensions in feet

Line 11 - Combination Inlet on Grade - D37



Line #	Q				Inlet			Gutter				Depth		Spread		Byp
	Catch (cfs)	Carry (cfs)	Capt (cfs)	Byp (cfs)	Length (ft)	Depr (in)	Throat (in)	Width (ft)	Slope (ft/ft)	Sw (ft/ft)	Sx (ft/ft)	Gutter (ft)	Inlet (ft)	Gutter (ft)	Inlet (ft)	Line (ft)
11	2.64	0.39	1.61	1.42	3.00	0.0	4.0	1.50	0.010	0.060	0.020	0.25	9.41	0.20	6.86	3

Project File:

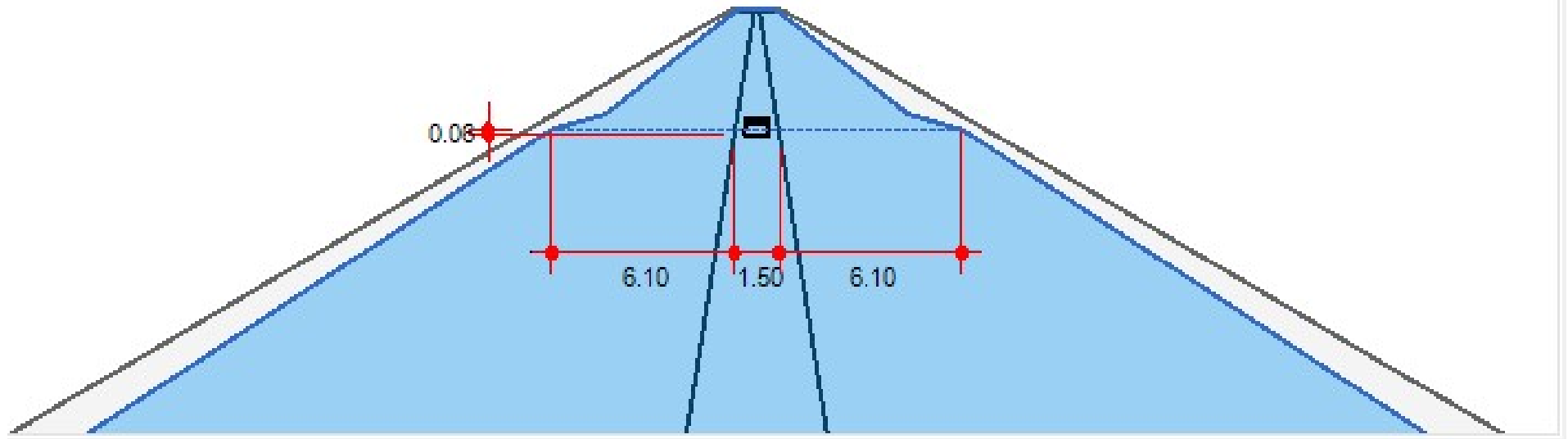
No. Lines: 21

Run Date: 7/10/20

Inlet Section (Line 12 - Drop Grate Inlet) - D51

All dimensions in feet

Line 12 - Drop Grate Inlet on Grade - D51



Line #	Q				Inlet			Gutter				Depth		Spread		Byp
	Catch (cfs)	Carry (cfs)	Capt (cfs)	Byp (cfs)	Length (ft)	Depr (in)	Width (ft)	Width (ft)	Slope (ft/ft)	Sw (ft/ft)	Sx (ft/ft)	Gutter (ft)	Inlet (ft)	Gutter (ft)	Inlet (ft)	Line (ft)
12	0.32	0.00	0.11	0.21	0.83	....	0.83	1.50	0.040	0.060	0.010	0.06	13.70	0.06	13.70	Offsite

Project File:

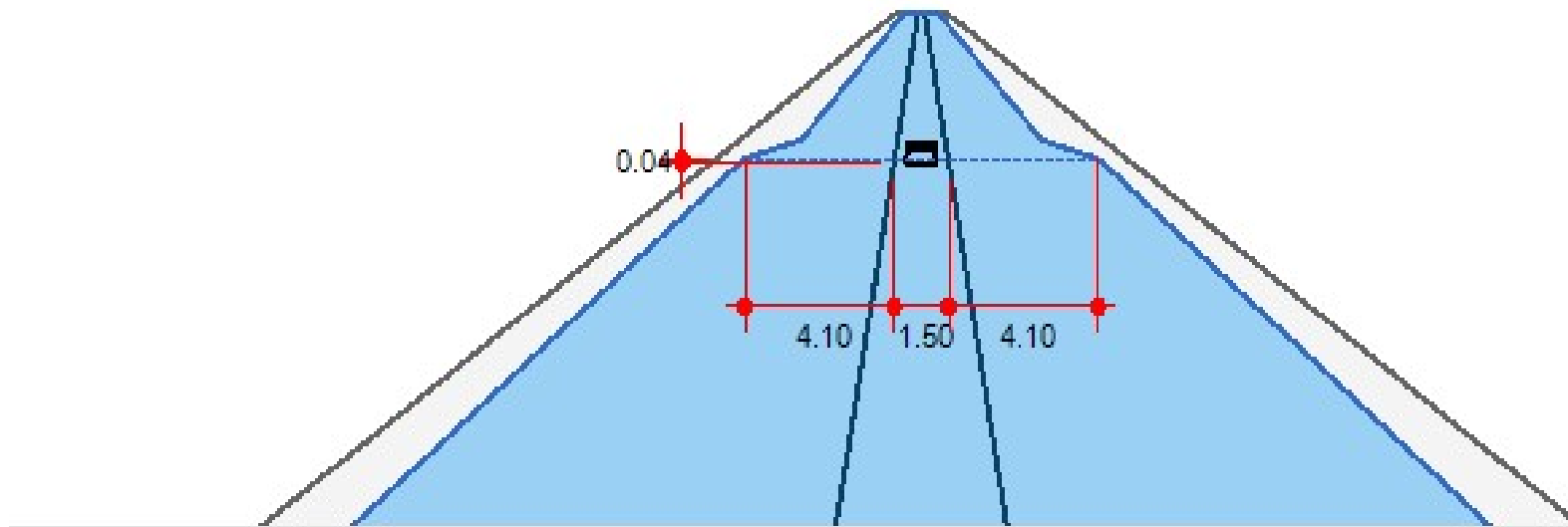
No. Lines: 21

Run Date: 7/10/20

Inlet Section (Line 13 - Drop Grate Inlet) - D40

All dimensions in feet

Line 13 - Drop Grate Inlet on Grade - D40



Line #	Q				Inlet			Gutter				Depth		Spread		Byp
	Catch (cfs)	Carry (cfs)	Capt (cfs)	Byp (cfs)	Length (ft)	Depr (in)	Width (ft)	Width (ft)	Slope (ft/ft)	Sw (ft/ft)	Sx (ft/ft)	Gutter (ft)	Inlet (ft)	Gutter (ft)	Inlet (ft)	Line (ft)
13	0.14	0.00	0.06	0.09	0.83	....	0.83	1.50	0.040	0.060	0.010	0.04	9.70	0.04	9.70	Offsite

Project File:

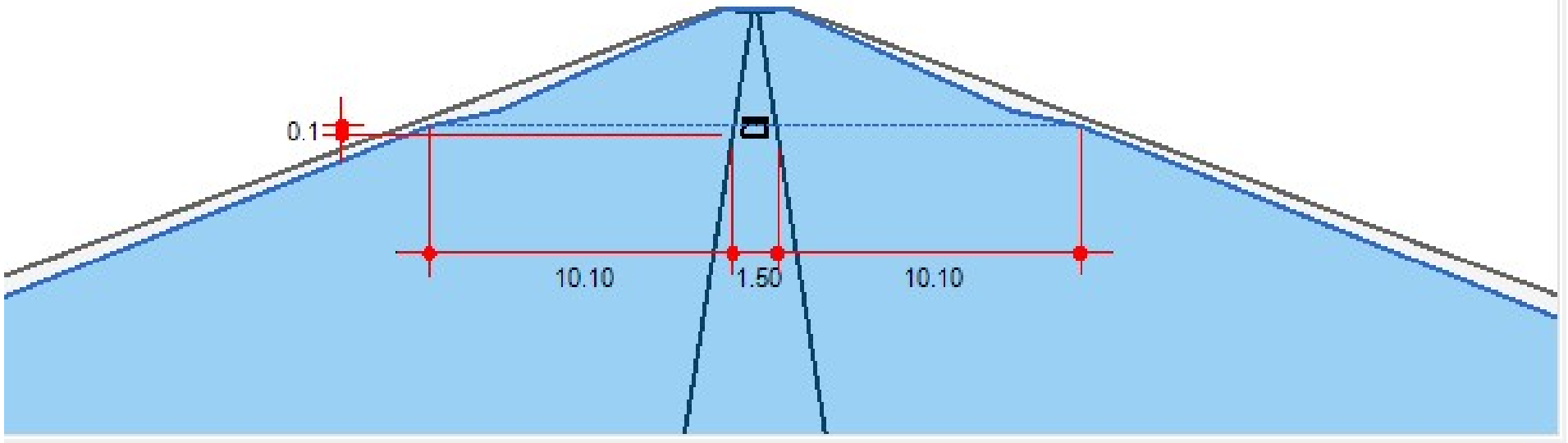
No. Lines: 21

Run Date: 7/10/20

Inlet Section (Line 14 - Drop Grate Inlet) - D41

All dimensions in feet

Line 14 - Drop Grate Inlet on Grade - D41



Line #	Q				Inlet			Gutter				Depth		Spread		Byp
	Catch (cfs)	Carry (cfs)	Capt (cfs)	Byp (cfs)	Length (ft)	Depr (in)	Width (ft)	Width (ft)	Slope (ft/ft)	Sw (ft/ft)	Sx (ft/ft)	Gutter (ft)	Inlet (ft)	Gutter (ft)	Inlet (ft)	Line (ft)
14	1.08	0.00	0.29	0.80	0.83	....	0.83	1.50	0.040	0.060	0.010	0.10	21.70	0.10	21.70	Offsite

Project File:

No. Lines: 21

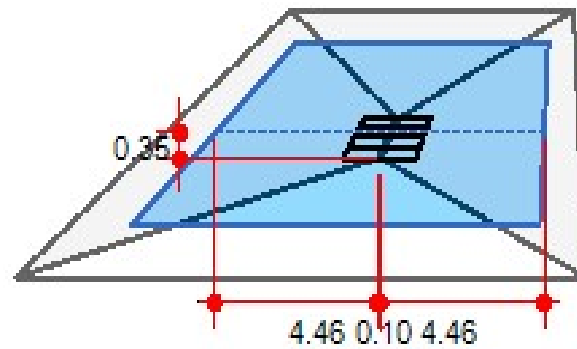
Run Date: 7/10/20

188

Inlet Section (Line 15 - Drop Grate Inlet) - D42

All dimensions in feet

Line 15 - Drop Grate Inlet in Sag - D42



Line #	Q				Inlet			Gutter				Depth		Spread		Byp
	Catch (cfs)	Carry (cfs)	Capt (cfs)	Byp (cfs)	Length (ft)	Depr (in)	Area (sqft)	Width (ft)	Slope (ft/ft)	Sw (ft/ft)	Sx (ft/ft)	Gutter (ft)	Inlet (ft)	Gutter (ft)	Inlet (ft)	Line (ft)
15	4.98	0.00	4.98	0.00	2.00	....	2.00	0.10	Sag	0.100	0.100	0.35	9.01	n/a	n/a	Sag

Project File:

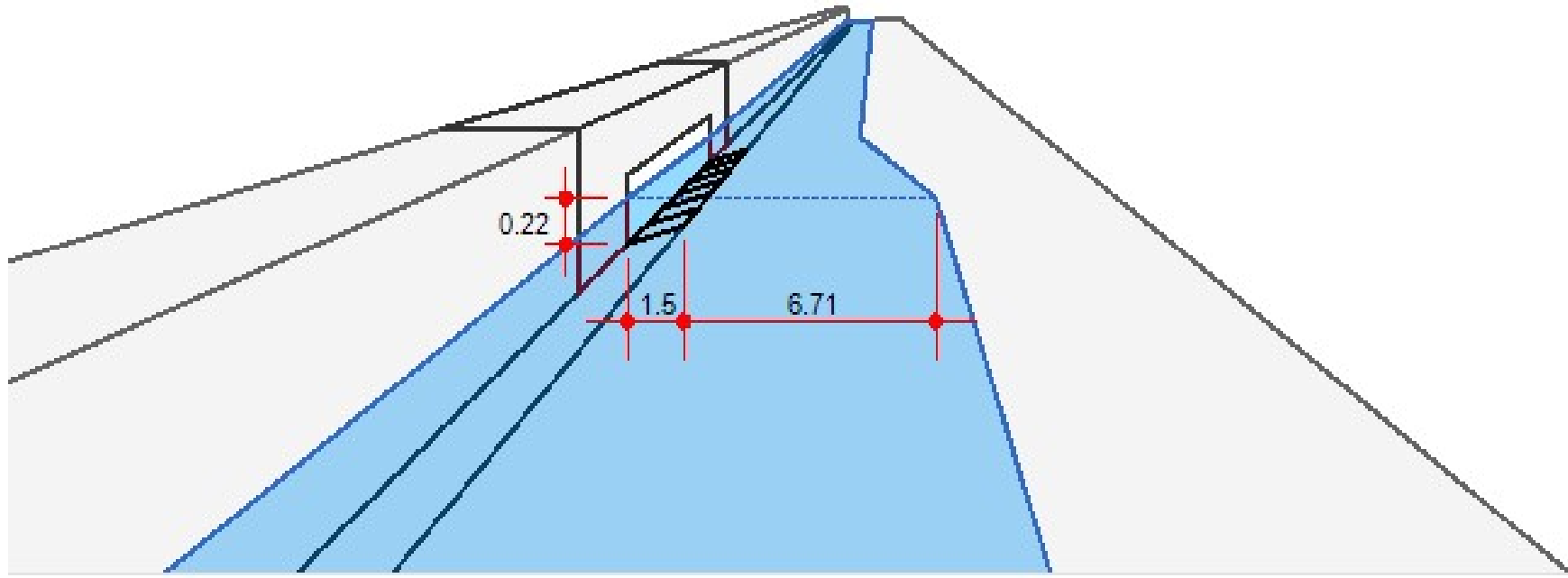
No. Lines: 21

Run Date: 7/10/20

Inlet Section (Line 16 - Combination Inlet) - D39

All dimensions in feet

Line 16 - Combination Inlet on Grade - D39

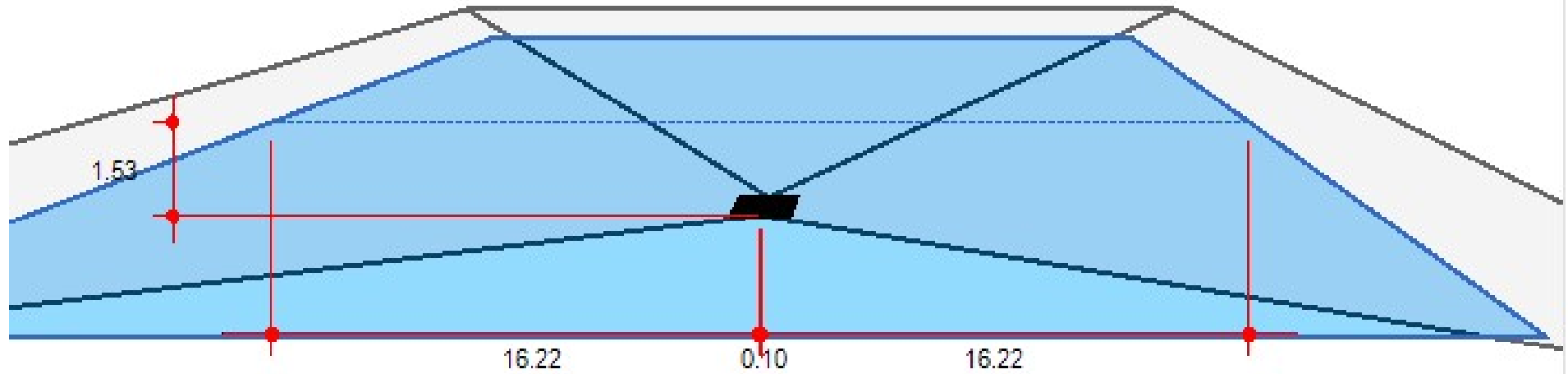


Line #	Q				Inlet			Gutter				Depth		Spread		Byp
	Catch (cfs)	Carry (cfs)	Capt (cfs)	Byp (cfs)	Length (ft)	Depr (in)	Throat (in)	Width (ft)	Slope (ft/ft)	Sw (ft/ft)	Sx (ft/ft)	Gutter (ft)	Inlet (ft)	Gutter (ft)	Inlet (ft)	Line (ft)
16	2.01	0.00	1.20	0.80	3.00	0.0	4.0	1.50	0.010	0.060	0.020	0.22	8.21	0.17	5.49	Offsite
Project File:										No. Lines: 21			Run Date: 7/10/20			190

Inlet Section (Line 17 - Drop Grate Inlet) - D44

All dimensions in feet

Line 17 - Drop Grate Inlet in Sag - D44



Line #	Q				Inlet			Gutter				Depth		Spread		Byp
	Catch (cfs)	Carry (cfs)	Capt (cfs)	Byp (cfs)	Length (ft)	Depr (in)	Area (sqft)	Width (ft)	Slope (ft/ft)	Sw (ft/ft)	Sx (ft/ft)	Gutter (ft)	Inlet (ft)	Gutter (ft)	Inlet (ft)	Line (ft)
17	13.28	0.00	13.28	0.00	2.00	....	2.00	0.10	Sag	0.100	0.100	1.53	32.55	n/a	n/a	Sag

Project File:

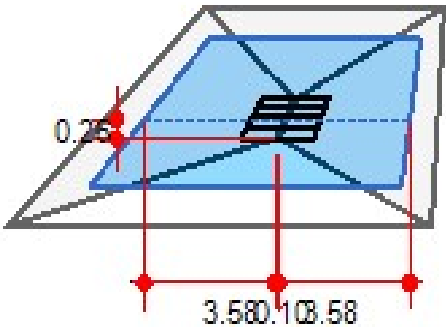
No. Lines: 21

Run Date: 7/10/20

Inlet Section (Line 18 - Drop Grate Inlet) - D56

All dimensions in feet

Line 18 - Drop Grate Inlet in Sag - D56



Line #	Q				Inlet			Gutter				Depth		Spread		Byp
	Catch (cfs)	Carry (cfs)	Capt (cfs)	Byp (cfs)	Length (ft)	Depr (in)	Area (sqft)	Width (ft)	Slope (ft/ft)	Sw (ft/ft)	Sx (ft/ft)	Gutter (ft)	Inlet (ft)	Gutter (ft)	Inlet (ft)	Line (ft)
18	3.24	0.00	3.24	0.00	2.00	....	2.00	0.10	Sag	0.100	0.100	0.26	7.26	n/a	n/a	Sag

Project File:

No. Lines: 21

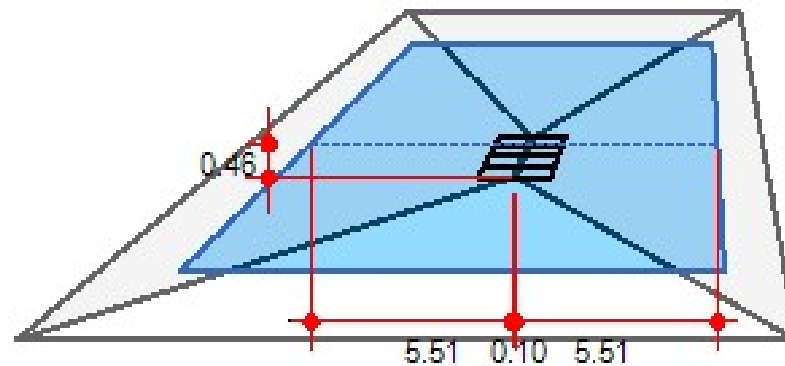
Run Date: 7/10/20

192

Inlet Section (Line 21 - Drop Grate Inlet) - D55

All dimensions in feet

Line 21 - Drop Grate Inlet in Sag - D55



Line #	Q				Inlet			Gutter				Depth		Spread		Byp
	Catch (cfs)	Carry (cfs)	Capt (cfs)	Byp (cfs)	Length (ft)	Depr (in)	Area (sqft)	Width (ft)	Slope (ft/ft)	Sw (ft/ft)	Sx (ft/ft)	Gutter (ft)	Inlet (ft)	Gutter (ft)	Inlet (ft)	Line (ft)
21	7.26	0.00	7.26	0.00	2.00	....	2.00	0.10	Sag	0.100	0.100	0.46	11.12	n/a	n/a	Sag

Project File:

No. Lines: 21

Run Date: 7/10/20