



**CITY OF PERRYSBURG
CITY COUNCIL
AGENDA**

February 4, 2025

1. Call to Order - 6:30 PM
2. Roll Call
3. Pledge of Allegiance
4. Minutes of Committee of the Whole of January 21, 2025
5. Minutes of Public Hearing of January 21, 2025
6. Minutes of Council Meeting of January 21, 2025
7. Special Reports
8. Letters, Communications, and Citizens Communications
9. Administrative Reports
 - a. Mayor
 - b. City Administrator
 - c. Finance Director
 - d. Law Director
10. President of Council Report
11. Committee Reports

a. Finance & Economic Development

Resolution# 3-2025

A RESOLUTION AUTHORIZING THE MAYOR AND DIRECTOR OF FINANCE TO ADVERTISE FOR BIDS AND ENTER INTO CONTRACTS AND/OR PARTICIPATE IN STATE OF OHIO OR APPROVED PURCHASING PROGRAMS FOR THE PURCHASE OF VEHICLES AND EQUIPMENT, AS APPROVED WITH THE 2025 BUDGET AS WELL AS THE TRADE-IN OR OUTRIGHT SALE OF VEHICLES AND EQUIPMENT NO LONGER NEEDED FOR MUNICIPAL PURPOSES; AND DECLARING AN EMERGENCY.

2nd Reading, no vote required

b. Safety

Resolution# 6-2025

A RESOLUTION AUTHORIZING PURCHASE AGREEMENTS WITH MONTROSE FORD NOT TO EXCEED ONE HUNDRED NINETY THOUSAND ONE HUNDRED NINE DOLLARS AND ZERO CENTS (\$190,109.00) FOR THE PURCHASE OF FOUR (4) 2025 FORD POLICE INTERCEPTOR

UTILITY VEHICLES FOR THE PERRYSBURG POLICE DIVISION; AND
DECLARING AN EMERGENCY.

***Recommendation to Suspend the Rules,
Waive the Three Readings, and
Pass as an Emergency Measure***

Resolution# 7-2025

A RESOLUTION AUTHORIZING PURCHASE AGREEMENTS WITH P&R COMMUNICATIONS IN AN AMOUNT NOT TO EXCEED SEVENTY-FIVE THOUSAND EIGHT HUNDRED THIRTY-EIGHT DOLLARS AND THIRTY-ONE CENTS (\$75,838.31) FOR THE PURCHASE AND INSTALLATION OF VEHICLE EQUIPMENT FOR THE POLICE DIVISION; AND DECLARING AN EMERGENCY

***Recommendation to Suspend the Rules,
Waive the Three Readings, and
Pass as an Emergency Measure***

Resolution# 8-2025

A RESOLUTION AUTHORIZING AGREEMENTS WITH AXON ENTERPRISE, INC. FOR THE PURCHASE OF HARDWARE, SOFTWARE, SERVICES, AND WARRANTIES FOR BODY CAMERAS, FLEET CAMERAS, AND INTERVIEW ROOM CAMERAS FOR THE POLICE DIVISION IN AN AMOUNT NOT TO EXCEED FIVE HUNDRED FIFTY-EIGHT THOUSAND TWO HUNDRED TWENTY-FOUR DOLLARS AND EIGHTY-FOUR CENTS (\$558,224.84); AND DECLARING AN EMERGENCY.

***Recommendation to Suspend the Rules,
Waive the Three Readings, and
Pass as an Emergency Measure***

Resolution# 9-2025

A RESOLUTION DECLARING CERTAIN FIRE EQUIPMENT NO LONGER NEEDED FOR PUBLIC USE OR UNFIT FOR PUBLIC SERVICE; AND DECLARING AN EMERGENCY

***Recommendation to Suspend the Rules,
Waive the Three Readings, and
Pass as an Emergency Measure***

c. Recreation

d. Planning & Zoning

e. Personnel

Ordinance# 3-2025

AN ORDINANCE AMENDING PERRYSBURG CODIFIED ORDINANCE §266.15-2; AND DECLARING AN EMERGENCY

***Recommendation to Suspend the Rules,
Waive the Three Readings, and
Pass as an Emergency Measure***

f. Public Utilities

Resolution# 10-2025

A RESOLUTION AUTHORIZING AND DIRECTING THE MAYOR AND DIRECTOR OF FINANCE TO ENTER INTO AN AGREEMENT WITH ENVIRONMENTAL RATE CONSULTANTS, INC. FOR THE STORMWATER UTILITY PROGRAM IMPLEMENTATION PROJECT AT A COST NOT TO EXCEED TWO HUNDRED EIGHTY-THREE THOUSAND NINE HUNDRED FORTY DOLLARS AND ZERO CENTS (\$283,940.00); AND DECLARING AN EMERGENCY

***Recommendation to Suspend the Rules,
Waive the Three Readings, and
Pass as an Emergency Measure***

Resolution# 11-2025

A RESOLUTION AUTHORIZING A CHANGE ORDER TO THE AGREEMENT WITH PROUDFOOT AND ASSOCIATES, INC. FOR ENGINEERING SERVICES RELATED TO THE EAST RIVER ROAD WATER CONNECTION PROJECT; AND DECLARING AN EMERGENCY

***Recommendation to Suspend the Rules,
Waive the Three Readings, and
Pass as an Emergency Measure***

Resolution# 12-2025

A RESOLUTION AUTHORIZING THE MAYOR AND DIRECTOR OF FINANCE TO APPLY FOR, ACCEPT, AND ENTER INTO A WATER SUPPLY REVOLVING LOAN ACCOUNT (WSRLA) AGREEMENT ON BEHALF OF THE CITY FOR PLANNING, DESIGN, AND/OR CONSTRUCTION OF IMPROVEMENTS TO COMMUNITY WATER SYSTEMS AND DESIGNATING A DEDICATED REPAYMENT SOURCE FOR THE LOAN; AND DECLARING AN EMERGENCY

***Recommendation to Suspend the Rules,
Waive the Three Readings, and
Pass as an Emergency Measure***

g. Service

Resolution# 13-2025

A RESOLUTION AMENDING RESOLUTION 68-2021 AND AUTHORIZING AN AMENDMENT TO THE AGREEMENT WITH GPD GROUP FOR THE PROVISION OF ENGINEERING, SURVEY, AND ENVIRONMENTAL SERVICES, FOR A TOTAL AMOUNT NOT TO EXCEED THREE HUNDRED ONE THOUSAND FIVE HUNDRED NINETY-SEVEN DOLLARS AND ZERO CENTS (\$301,597.00); AND DECLARING AN EMERGENCY

***Recommendation to Suspend the Rules,
Waive the Three Readings, and
Pass as an Emergency Measure***

Resolution# 14-2025

A RESOLUTION AUTHORIZING A PURCHASE AGREEMENT WITH BEST EQUIPMENT CO. FOR THE PURCHASE OF A LABRIE AUTOMIZER

HELPING HAND REFUSE TRUCK FOR THE DEPARTMENT OF PUBLIC SERVICE IN AN AMOUNT NOT TO EXCEED THREE HUNDRED SEVENTY-SEVEN THOUSAND SIX HUNDRED FIFTY DOLLARS AND ZERO CENTS (\$377,650.00); AND DECLARING AN EMERGENCY

***Recommendation to Suspend the Rules,
Waive the Three Readings, and
Pass as an Emergency Measure***

Ordinance# 4-2025

ACCEPTING STREETS, ALLEYS, AND GREEN SPACE AND OTHER DEDICATED INFRASTRUCTURE PER CODIFIED ORDINANCE §1295.07 (CANTERBURY PLAT 4); AND DECLARING AN EMERGENCY

***Recommendation to Suspend the Rules,
Waive the Three Readings, and
Pass as an Emergency Measure***

Ordinance# 5-2025

ACCEPTING STREETS, ALLEYS, AND GREEN SPACE AND OTHER DEDICATED INFRASTRUCTURE PER CODIFIED ORDINANCE §1295.07 (COVENTRY POINTE PLAT 4); AND DECLARING AN EMERGENCY

***Recommendation to Suspend the Rules,
Waive the Three Readings, and
Pass as an Emergency Measure***

Ordinance# 6-2025

ACCEPTING STREETS, ALLEYS, AND GREEN SPACE AND OTHER DEDICATED INFRASTRUCTURE PER CODIFIED ORDINANCE §1295.07 (SUMMERFIELD PLAT 5); AND DECLARING AN EMERGENCY

***Recommendation to Suspend the Rules,
Waive the Three Readings, and
Pass as an Emergency Measure***

12. Other Business

13. Adjournment

TO: Mayor Mackin
President Fuller
Members of City Council

FROM: Timothy W. Effler, Law Director

RE: Resolution 3-2025

DATE: January 17, 2025



Subject Matter/Background

Resolution 3-2025 is an omnibus resolution authorizing the City to either solicit bids, or directly purchase from approved programs (such as Sourcewell) for various purchases that are already accounted for within the 2024 budget. Additional information regarding particular purchases within this resolution can be provided upon request of Council.

Financial Review

All items within this resolution have been accounted for in the 2025 City Budget.

Legal Review

This legislation has been reviewed and is appropriately before you.

Recommendation

1st Reading – January 21, 2025

2nd Reading – February 4, 2025

3rd Reading – February 18, 2025

If City Council is in agreement, after the 3rd reading, a motion to suspend the rules and pass this legislation as an emergency is appropriate. An emergency is requested to provide the City with the ability to make timely purchases and dispose of the property in a timely manner.

RESOLUTION 3-2025

A RESOLUTION AUTHORIZING THE MAYOR AND DIRECTOR OF FINANCE TO ADVERTISE FOR BIDS AND ENTER INTO CONTRACTS AND/OR PARTICIPATE IN STATE OF OHIO OR APPROVED PURCHASING PROGRAMS FOR THE PURCHASE OF VEHICLES AND EQUIPMENT, AS APPROVED WITH THE 2025 BUDGET AS WELL AS THE TRADE-IN OR OUTRIGHT SALE OF VEHICLES AND EQUIPMENT NO LONGER NEEDED FOR MUNICIPAL PURPOSES; AND DECLARING AN EMERGENCY

WHEREAS, the City of Perrysburg, during the 2025 calendar year, will need to purchase certain vehicles and equipment, as approved in the 2025 budget; and,

WHEREAS, in order to expedite the purchase process for vehicle and equipment purchases approved in the annual budget, which will allow the City to obtain the best prices for such items and ensure that said items are available to the City when needed, it is requested that City Council authorize the Mayor and Director of Finance to advertise for bids and/or enter into contracts, or as an alternative, to participate in the State of Ohio Cooperative Purchasing Program or other approved purchasing programs in with the City is a member, for the purchase of the items listed within this Resolution; and,

WHEREAS, in order to expedite the process for vehicle and equipment trade-in, outright sale, or disposal of vehicles and equipment no longer needed for municipal purposes, it is requested that City Council authorize the Mayor and Director to trade, outright sell, or otherwise dispose of vehicles and equipment that are no longer needed for municipal purposes listed within this Resolution; and,

WHEREAS, the Finance Committee, at its meeting held January 14, 2025, unanimously approved advancement of this Agreement to City Council.

NOW, THEREFORE, BE IT RESOLVED BY THE COUNCIL OF THE CITY OF PERRYSBURG, WOOD COUNTY, OHIO, THAT

SECTION 1. The Mayor and Director of Finance are hereby authorized to advertise for bids and/or enter into a contract or contracts for the purchase of vehicles and equipment detailed below, or as an alternative, to participate in the State of Ohio Cooperative Purchasing Program or other approved purchasing programs in with the City is a member:

Division/Department	Fund	Description
Fire	4403	Stryker Power Cot & Load System (2)
Fire	4403	EMS Airway Ventilator Replacement (3)
Fire	4403	Automatic Station Alerting
Fire	4403	Ladder Truck Replacement
Parks	4403	Chipper
Parks	4403	Boom Mower Drum Mulcher
Parks	4403	Gator (or like) to Water Flowers
Parks	4403	Field Rake
Parks	4403	Tilt Trailer
Parks	4403	Replace Lights at Municipal Tennis/Pickleball Courts
Pool	4403	New Pool Features
Streets	4403	Utility Loader
Streets	4403	Brine Tanks (2)
Streets	4403	Brine Applicator for Small Parking Lots
Streets	4403	Snowplow Truck
Streets	4403	Dump Truck
Streets	4403	4x4 Pick-up
Utilities	5401/5402	Trimble GPS Unit
Utilities	5401	SBPS/EBPS SCADA, PS Flow Meters
Utilities	5402	Crew Truck - Sewer
WWTP	5402	Dewatering Roll-off Box
WWTP	5402	Zero Turn Mower
WWTP	5402	Trojan Technologies (UV Inventory)

SECTION 2. The Mayor and Director of Finance are hereby authorized to trade, outright sell, or otherwise dispose of vehicles and equipment detailed below that are no longer needed for municipal purposes:

Make/Model/Equipment Description	VIN/Serial Number	Year	Division/ Department	Vehicle #
Pierce Quantum Fire Engine	4P1CT02S8VA000131	1997	Fire	E-97
Ambulance – Int’l Terrastar Titan	1HTJSSKK4EH797759	2014	Fire	M-14
(2) LTV EMS Ventilators			Fire	
Chevrolet Tahoe	1GNLCDEC9HR160522	2017	Police	2
Chevrolet Tahoe	1GNLCDEC5KR202790	2019	Police	7
Chevrolet Tahoe	1GNLCDEC5JR227140	2018	Police	8

Ford F-250 4x4	1FTSX21598EB43568	2008	Police	18
Motorola/WatchGuard Camera System			Police	

SECTION 3. This Council finds and determines that all formal actions of this Council and any of its committees concerning and relating to the adoption of this resolution were adopted in an open meeting of this Council, and that all deliberations of this Council and any of its committees that resulted in those formal actions were in meetings open to the public, all in compliance with the law.

SECTION 4. This Resolution is hereby declared to be an emergency measure necessary for the immediate preservation of the public peace, health and safety of the citizens of the City of Perrysburg, Wood County, Ohio; this Resolution shall be in full force and effect from and immediately after its passage and approval by the Mayor.

President of Council

Mayor

PASSED _____

ATTEST: _____

APPROVED: _____

Timothy W. Effler
LAW DIRECTOR

TO: Mayor Mackin
President Fuller
Members of City Council

FROM: Timothy W. Effler

RE: Resolution 6-2025

DATE: January 28, 2025



Subject Matter/Background

A Resolution authorizing the Mayor and Director of Finance to enter into a Purchase Agreement with Montrose Ford for the purchase of four (4) 2025 Ford Police Interceptor Utility vehicles at a total cost not to exceed One Hundred Ninety Thousand One Hundred Nine Dollars and Zero Cents (\$190,109.00).

These new vehicles will be additional vehicles necessary for the daily operations of the Police Division.

The individual price for three (3) of the vehicles under the current state bid contract is Forty-Eight Thousand Five Hundred Twenty-Four Dollars and Zero Cents (\$48,524.00). The price for the fourth vehicle is Forty-Four Thousand Five Hundred Thirty-Seven Dollars and Zero Cents (\$44,537.00), which is below the current state bid pricing and in accordance with Ohio Revised Code 125.04(C), the City is able to purchase these vehicles from Montrose Ford upon equivalent terms, conditions, and specifications but at a lower price than it can through State Term Contract. Montrose is meeting the terms of the state term contract and beating the price.

Financial Review

Account: 4403-21232-55600

Recommendation

If City Council is in agreement, a motion to suspend the three readings, waive the rules, and authorize this Resolution as an Emergency is recommended.

RESOLUTION 6-2025

A RESOLUTION AUTHORIZING PURCHASE AGREEMENTS WITH MONTROSE FORD NOT TO EXCEED ONE HUNDRED NINETY THOUSAND ONE HUNDRED NINE DOLLARS AND ZERO CENTS (\$190,109.00) FOR THE PURCHASE OF FOUR (4) 2025 FORD POLICE INTERCEPTOR UTILITY VEHICLES FOR THE PERRYSBURG POLICE DIVISION; AND DECLARING AN EMERGENCY

WHEREAS, the Police Division is in need of four (4) new vehicles; and,

WHEREAS, these four (4) new vehicles will be additional vehicles necessary for the daily operation of the Police Division; and,

WHEREAS, the individual price for three (3) of the vehicles under the current state bid contract is Forty-Eight Thousand Five Hundred Twenty-Four Dollars and Zero Cents (\$48,524.00). The price for the fourth vehicle is Forty-Four Thousand Five Hundred Thirty-Seven Dollars and Zero Cents (\$44,537.00), which is the current state bid pricing; and,

WHEREAS, pursuant to R.C. § 125.04(B)(2), the City participates in equipment purchasing contracts with the Ohio Department of Administrative Services, and the police vehicle purchases would be subject to this state cooperative plan through State Term Contract RSI023078; and,

WHEREAS, the total cost for the four (4) vehicles, through State Term Contract RSI023078, is One Hundred Ninety Thousand One Hundred Nine Dollars and Zero Cents (\$190,109.00).

NOW, THEREFORE, BE IT RESOLVED BY THE COUNCIL OF THE CITY OF PERRYSBURG, WOOD COUNTY, OHIO:

SECTION 1. The Council hereby authorizes the Mayor and Director of Finance to enter into a Purchase Agreements with Montrose Ford for the purchase of four (4) 2025 Ford Police Interceptor Utility vehicles at a total cost not to exceed One Hundred Ninety Thousand One Hundred Nine Dollars and Zero Cents (\$190,109.00), as outlined in the quotes attached hereto and incorporated herein as Exhibit A.

SECTION 2. It is found and determined that all formal actions of Council concerning or relating to the passage of this Resolution were adopted in an open meeting of the Council, and that all deliberations of this Council and any of its committees, that resulted in such formal actions, were in meetings open to the public in compliance with all legal requirements of the City of Perrysburg and the State of Ohio.

SECTION 3. This Resolution is hereby declared to be an emergency measure necessary for the immediate preservation of the public peace, health and safety of the citizens of the City of Perrysburg, Wood County, Ohio, as an emergency measure will permit the Division of Police to take the necessary steps to order the vehicles and utilize them in the fleet as soon as possible, and shall be in full force and effect from and immediately after its passage and approval by the Mayor.

President of Council

Mayor

PASSED _____

ATTEST: _____

APPROVED: _____

Timothy W. Effler
LAW DIRECTOR

Contract # RS1023078

(PAGE 1 of 2)

2025 INTERCEPTOR (3.3L V-6)

Item # 1-1

Order No: U137 - U139

PERRYSBURG PD (PATROL)

FIN# QD868

K8A 4DR AWD POLICE
.119" WHEELBASEPLEASE SELECT
YOUR CAR COLOR
ON PAGE 29 CLTH BKTS/VNL R
W EBONY500A EQUIP GRP
.AM/FM STEREO W/SYNC
99B .3.3L V-6 GAS Flex-Fuel
44U .10-SP AUTO
425 50 STATE EMISS
51R DRV LED SPT LMP UNITY BRAND
55F KEYLESS - 4 FOB (now STD equip)
PLUS ALL ITEMS IN GREEN ON PAGE 2The items to the left are how the car
was quoted and that is this price below.
Any additional options added will
increase this price.

STATE CONTRACT VEHICLE Subtotal \$ 44,000.00

FORD FACTORY VSO (Vehicle Special Order) LIGHTING (used for all other color combinations other than RED/BLUE)

CHOOSING ANY ITEMS BELOW WILL INCREASE THE ABOVE SUBTOTAL

				TYPE YES OR NO
	TITLE FEE	DEALER	\$ 15.00	INCLUDED
#1-2	TEMP TAGS	DEALER	\$ 20.00	YES
#1-3	ADDITIONAL SET OF KEYS (comes with 4 already)	DEALER	\$ 100.00	
#1-4	WHEEL COVER (grey hubcaps)	65L	\$ 70.00	
#1-5	3.3L V-6 HYBRID	99W/44B	\$ 2,000.00	
#1-6	3.0L EcoBoost	99C/44U	\$ 3,000.00	YES
#1-7	INSIDE REAR DOOR LOCKS INOP	68G	\$ 80.00	YES
#1-8	INSIDE REAR DOOR HANDLES INOP	INC IN 68G	\$ -	INCLUDED
#1-9	HIDDEN DOOR PLUNGER/REAR INOP	52P	\$ 160.00	
#1-10	HEATED MIRRORS	STANDARD	\$ -	INCLUDED
#1-11	CARPET	16C	\$ 150.00	
#1-12	RED/WHT DOME IN CARGO	STANDARD	\$ -	INCLUDED
#1-13	PER. ANTI-THEFT WITH REMOTE START	DEALER	\$ 600.00	
#1-14	KEYLESS ENTRY (4 FOBs) W/O KEYPAD (DEDUCT)	STANDARD	\$ -	INCLUDED
#1-15	REAR CONSOLE PLATE FOR WIRE CHASE	85R	\$ 44.00	YES
#1-16	GRIL LED LGHTS/SIREN/SPKR PRE-WIRE	STANDARD	\$ -	INCLUDED
#1-17	HITCH	STANDARD	\$ -	INCLUDED
#1-18	SYNC	STANDARD	\$ -	INCLUDED
#1-19	REAR LIGHT - BLUE/BLUE (RED/BLUE IS STD)	66C & VSO	\$ 560.00	
#1-20	BACKUP CAMERA	STANDARD	\$ -	INCLUDED
#1-21	STREET APPEARANCE (FIRE, DB OR UNMARKED)	65U, 64E, FW (RMV 51R)	\$ 367.00	
NOTE Street Appearance package includes Carpet Floor, full non-police style center console with armrest and cupholders, cloth rear seat, painted aluminum wheel (64E) and no spotlight.				
	ROAD READY UPFIT (LESS RADIO, RADAR & SCAN)	DEALER	\$ 16,000.00	
	5YR 100K \$0 DED PREMIUM CARE EXT WARRANTY	DEALER	\$ 2,700.00	
	5YR 150K \$0 DED PREMIUM CARE EXT WARRANTY	DEALER	\$ 4,300.00	
NOTE Extended Warranties are through Ford and are also available in many configurations. This Extended Warranties + use are the Premium Care (3,000 + Covered Components)				
#1-22	PER MILE DELIVERY CHARGE PER MILE	0	\$ -	
#1-23	MINIMUM DELIVERY CHARGE	DEALER	\$ 150.00	YES



STANDARD PIU WHEEL



WHITE (65L)



PNM (64E)

****NOTE** Painted Wheel (64E) available in Street Appearance**

PERRYSBURG PD (PATROL)
Attn: PATRICK JONESDerek Powers
Fleet/Gvmt. Sales Mgr.
Cell # is (419) 606-5659
dpowers@gomontrose.com

TOTAL OF UNIT W/ ADDED ADDL. BID ITEMS FROM ABOVE	\$ 47,294.00
TOTAL FOR UPFIT PROVIDED VIA MONTROSE FORD NOT LISTED ABOVE (IF REQUESTED)	\$ -
TOTAL FOR EXT WARRANTY NOT LISTED ABOVE (IF REQUESTED)	\$ -
TOTAL FOR CUSTOMER ADDED OPTIONS BELOW	\$ 1,230.00
TOTAL FOR CUSTOMER ADDED FORD FACTORY VSO LIGHTING OPTIONS	\$ -
TOTAL VALUE OF TRADE (IF YOU HAVE ONE)	\$ -
TOTAL FOR SINGLE UNIT QUOTED / ORDERED	\$ 48,524.00
3 unit/s requested	\$ 145,572.00

QUOTED 1/8/2025
ORDERED 1/10/2025

ACCEPTED BY:

Date:

These items below can be added to the build - Select what you need, or ask Salesman if you have questions

CODE	DESCRIPTION	PRICE	TYPE YES OR NO
153	License Plate Bracket - Front	\$ -	YES
18D	Global Lock / Unlock feature	\$ -	YES
59E	Keyed Alike -- 1435x	\$ 50.00	YES
67U	Ultimate Wiring Package	\$ 640.00	YES
67V	Police Wire Harness Connector Kit - Front/Rear	\$ 200.00	YES
76D	Deflector Plate	\$ 340.00	YES
17A	Aux Air Conditioning (STD IN 2025)	INCLUDED	INCLUDED
19K	H8 AGM Battery (STD IN 2025)	INCLUDED	INCLUDED
19V	Rear Camera On-Demand (STD IN 2025)	INCLUDED	INCLUDED
43D	Dark Car Feature (STD IN 2025)	INCLUDED	INCLUDED
47A	Police Engine Idle Feature (STD IN 2025)	INCLUDED	INCLUDED
55B	BLIS - Blind Spot Monitor w/ x Traffic Alt (STD IN 2025)	INCLUDED	INCLUDED
68B	Police Perimeter Alert (STD IN 2025)	INCLUDED	INCLUDED
76P	Pre-Collision Assist w/ Ped. Detection (STD IN 2025)	INCLUDED	INCLUDED
76R	Reverse Sensing System (STD IN 2025)	INCLUDED	INCLUDED
86T	Tail Lamp / Police Housing Only (STD IIN 2025)	INCLUDED	INCLUDED
61B	QBD -- II Split Connector (N/A IN 2025'S)	N/A	N/A
85S	Rear Center Seat Delete (N/A IN 2025'S)	N/A	N/A
87P	Power Passenger Seat (N/A IN 2025'S)	N/A	N/A
87R	Rear View Camera (mirror display) (N/A IN 2025'S)	N/A	N/A
593	PER. ANTI-THEFT	N/A	N/A
AVAILABLE COLORS			
UM	AGATE BLACK	\$ -	3

Contract # RS1023078

(PAGE 1 of 2)

2025 INTERCEPTOR (3.3L V-6)

Item # 1-1

Order No: U137 - U139

PERRYSBURG PD (UNMARKED)

FIN# QD868

K8A 4DR AWD POLICE
.119" WHEELBASEPLEASE SELECT
YOUR CAR COLOR
ON PAGE 2F CLTH SEATS
W EBONY500A EQUIP GRP
.AM/FM STEREO W/SYNC
99B .3.3L V6 GAS Flex Fuel
44U .10-SP AUTO
425 50 STATE EMISS
51R-DRV LED SPT LMP UNITY BRAND
55F KEYLESS - 4 FOB (now STD equip)
PLUS ALL ITEMS IN GREEN ON PAGE 2The items to the left are how the car
was quoted and that is this price below.
Any additional options added will
increase this price.

STATE CONTRACT VEHICLE Subtotal \$ 44,000.00

FORD FACTORY VSO (Vehicle Special Order) LIGHTING (used for all other color combinations other than RED/BLUE)

CHOOSING ANY ITEMS BELOW WILL INCREASE THE ABOVE SUBTOTAL

				TYPE YES OR NO
	TITLE FEE	DEALER	\$ 15.00	INCLUDED
#1-2	TEMP TAGS	DEALER	\$ 20.00	YES
#1-3	ADDITIONAL SET OF KEYS (comes with 4 already)	DEALER	\$ 100.00	
#1-4	WHEEL COVER (grey hubcaps)	65L	\$ 70.00	
#1-5	3.3L V6 HYBRID	99W/44B	\$ 2,000.00	
#1-6	3.0L EcoBoost	99C/44U	\$ 3,000.00	
#1-7	INSIDE REAR DOOR LOCKS INOP	68G	\$ 80.00	
#1-8	INSIDE REAR DOOR HANDLES INOP	INC IN 68G	\$	
#1-9	HIDDEN DOOR PLUNGER/REAR INOP	52P	\$ 160.00	
#1-10	HEATED MIRRORS	STANDARD	\$ -	INCLUDED
#1-11	CARPET	16C	\$ 150.00	INCLUDED
#1-12	RED/WHT DOME IN CARGO	STANDARD	\$ -	INCLUDED
#1-13	PER. ANTI-THEFT WITH REMOTE START	DEALER	\$ 600.00	
#1-14	KEYLESS ENTRY (4 FOBs) W/O KEYPAD (DEDUCT)	STANDARD	\$ -	INCLUDED
#1-15	REAR CONSOLE PLATE FOR WIRE CHASE	85R	\$ 44.00	
#1-16	GRIL LED LGHTS/SIREN/SPKR PRE-WIRE	STANDARD	\$ -	INCLUDED
#1-17	HITCH	STANDARD	\$ -	INCLUDED
#1-18	SYNC	STANDARD	\$ -	INCLUDED
#1-19	REAR LIGHT - BLUE/BLUE (RED/BLUE IS STD)	66C & VSO	\$ 560.00	
#1-20	BACKUP CAMERA	STANDARD	\$ -	INCLUDED
#1-21	STREET APPEARANCE (FIRE, DB OR UNMARKED)	65U, 64E, FW (RMV 51R)	\$ 367.00	YES
** NOTE ** Street Appearance package includes Carpet Floor, full non-police style center console with armrest and cupholders, cloth rear seat, painted aluminum wheel (64E) and no spotlight.				
	ROAD READY UPFIT (LESS RADIO, RADAR & SCAN)	DEALER	\$ 16,000.00	
	5YR 100K \$0 DED PREMIUM CARE EXT WARRANTY	DEALER	\$ 2,700.00	
	5YR 150K \$0 DED PREMIUM CARE EXT WARRANTY	DEALER	\$ 4,300.00	
** NOTE ** Extended Warranties are through Ford and are also available in many configurations. This Extended Warranties + use are the Premium Care (3,000 + Covered Components)				
#1-22	PER MILE DELIVERY CHARGE PER MILE	0	\$	\$
#1-23	MINIMUM DELIVERY CHARGE	DEALER	\$ 150.00	YES



STANDARD WHEEL



WHEEL COVER (65L)



PNTD ALUM WHEEL (64E)

NOTE Painted Alum. Wheel
(64E) only available with Street
Appearance pkgPERRYSBURG PD (UNMARKED)
Attn: PATRICK JONESDerek Powers
Fleet/Gvmt. Sales Mgr.
Cell # is (419) 606-5659
dpowers@gomontrose.com

TOTAL OF UNIT W/ ADDED ADDL. BID ITEMS FROM ABOVE	\$ 44,537.00
TOTAL FOR UPFIT PROVIDED VIA MONTROSE FORD NOT LISTED ABOVE (IF REQUESTED)	\$ -
TOTAL FOR EXT WARRANTY NOT LISTED ABOVE (IF REQUESTED)	\$ -
TOTAL FOR CUSTOMER ADDED OPTIONS BELOW	\$ -
TOTAL FOR CUSTOMER ADDED FORD FACTORY VSO LIGHTING OPTIONS	\$ -
TOTAL VALUE OF TRADE (IF YOU HAVE ONE)	\$ -
TOTAL FOR SINGLE UNIT QUOTED / ORDERED	\$ 44,537.00
1 unit/s requested	\$ 44,537.00

QUOTED 1/8/2025
ORDERED 1/10/2025

ACCEPTED BY:

Date:

These items below can be added to the build - Select what you need, or ask Salesman if you have questions

CODE	DESCRIPTION	PRICE	TYPE YES OR NO
18D	Global Lock / Unlock feature	\$ -	YES
65U	Interior Upgrade Pkg (req. FW interior)	\$ 390.00	INCLUDED
64E	18 in. Ptd Alum Wheel (only avail. w/ 65U in 2025's)	\$ -	INCLUDED
17A	Aux Air Conditioning (STD IN 2025)	INCLUDED	INCLUDED
19K	H8 AGM Battery (STD IN 2025)	INCLUDED	INCLUDED
19V	Rear Camera On-Demand (STD IN 2025)	INCLUDED	INCLUDED
43D	Dark Car Feature (STD IN 2025)	INCLUDED	INCLUDED
47A	Police Engine Idle Feature (STD IN 2025)	INCLUDED	INCLUDED
55B	BLIS - Blind Spot Monitor w/ x Traffic Alt (STD IN 2025)	INCLUDED	INCLUDED
68B	Police Perimeter Alert (STD IN 2025)	INCLUDED	INCLUDED
76P	Pre-Collision Assist w/ Ped. Detection (STD IN 2025)	INCLUDED	INCLUDED
76R	Reverse Sensing System (STD IN 2025)	INCLUDED	INCLUDED
86T	Tail Lamp / Police Housing Only (STD IIN 2025)	INCLUDED	INCLUDED
61B	OBD - II Split Connector (N/A IN 2025'S)	N/A	N/A
85S	Rear Center Seat Delete (N/A IN 2025'S)	N/A	N/A
87P	Power Passenger Seat (N/A IN 2025'S)	N/A	N/A
87R	Rear View Camera (mirror display) (N/A IN 2025'S)	N/A	N/A
593	PER. ANTI-THEFT	N/A	N/A
AVAILABLE COLORS			
YZ	OXFORD WHITE	\$ -	1

TO: Mayor Mackin
President Fuller
Members of City Council

FROM: Timothy W. Effler, Law Director

RE: Resolution 7-2025

DATE: January 28, 2025



Subject Matter/Background

The Police Division has purchased four (4) new marked vehicles, each of those vehicles need to be upfit with necessary equipment.

The individual price for upfitting three (3) of the vehicles is Twenty-One Thousand Two Hundred Seventy-Seven Dollars and Fifty Cents (\$21,277.50). The price for upfitting the fourth vehicle is Twelve Thousand Five Dollars and Eighty-One Cents (\$12,005.81).

This Resolution authorizes the Mayor and Director of Finance to enter into Purchase Agreements with P&R Communications for the purchase and installation of the necessary equipment for the 4 new police vehicles at a total cost not to exceed Seventy-Five Thousand Eight Hundred Thirty-Eight Dollars and Thirty-One Cents (\$75,838.31).

Financial Review

Account: 4403-21232-55600

Legal Review

This legislation has been reviewed and is appropriately before you.

Recommendation

If City Council is in agreement, a motion to suspend the rules, waive the three readings and pass this legislation as an emergency is appropriate. An Emergency is requested to permit the Division of Police to take the necessary steps to order the equipment and utilize the vehicles in the fleet as soon as possible

RESOLUTION 7-2025

A RESOLUTION AUTHORIZING PURCHASE AGREEMENTS WITH P&R COMMUNICATIONS IN AN AMOUNT NOT TO EXCEED SEVENTY-FIVE THOUSAND EIGHT HUNDRED THIRTY- EIGHT DOLLARS AND THIRTY-ONE CENTS (\$75,838.31) FOR THE PURCHASE AND INSTALLATION OF VEHICLE EQUIPMENT FOR THE POLICE DIVISION; AND DECLARING AN EMERGENCY

WHEREAS, the Police Division has purchased four new marked vehicles, each of those vehicles need to be upfit with necessary equipment; and,

WHEREAS, the individual price for upfitting three (3) of the vehicles is Twenty-One Thousand Two Hundred Seventy-Seven Dollars and Fifty Cents (\$21,277.50). The price for upfitting the fourth vehicle is Twelve Thousand Five Dollars and Eighty-One Cents (\$12,005.81), for a total cost of Seventy-Five Thousand Eight Hundred Thirty-Eight Dollars and Thirty-One Cents (\$75,838.31); and,

WHEREAS, this equipment is in the 2025 budget.

NOW, THEREFORE, BE IT RESOLVED BY THE COUNCIL OF THE CITY OF PERRYSBURG, WOOD COUNTY, OHIO:

SECTION 1. The Council hereby authorizes the Mayor and Director of Finance to enter into Purchase Agreements with P&R Communications for the purchase and installation of the necessary equipment for the four (4) new police vehicles at a total cost not to exceed Seventy-Five Thousand Eight Hundred Thirty-Eight Dollars and Thirty-One Cents (\$75,838.31), as outlined in the quotes attached hereto and incorporated herein as Exhibit A.

SECTION 2. It is found and determined that all formal actions of Council concerning or relating to the passage of this Resolution were adopted in an open meeting of the Council, and that all deliberations of this Council and any of its committees, that resulted in such formal actions, were in meetings open to the public in compliance with all legal requirements of the City of Perrysburg and the State of Ohio.

SECTION 3. This Resolution is hereby declared to be an emergency measure necessary for the immediate preservation of the public peace, health and safety of the citizens of the City of Perrysburg, Wood County, Ohio, as an emergency measure will permit the Division of Police to take the necessary steps to order the equipment and utilize the vehicles in the fleet as soon as possible, and shall be in full force and effect from and immediately after its passage and approval by the Mayor.

President of Council

Mayor

PASSED _____

ATTEST: _____

APPROVED: _____

Timothy W. Effler
LAW DIRECTOR



P&R Communications Service, Inc.
 731 East 1st St.
 Dayton, OH 45402
 736 S. Vandemark Rd.
 Sidney, OH 45365
 4910 Wynscape Rd.
 Oregon, OH 43616
 (937) 512-8100

<https://www.pandrcommunications.com/>

Quote
QUO2552
Date: 1/22/2025
Expiration Date: 2/21/2025

Bill To	Note
12139 Perrysburg Police Department 330 Walnut Street Perrysburg OH 43551 United States	Please reference Quote# on purchase order. Prices firm for 15 days.

Terms	PO #	Sales Rep	Contact
Net 30		Alan Davis	Patrick Jones

Quantity	Item	Unit Price	UOM	Amount
1	INTERIOR WINDSHIELD LIGHTBAR 4 Module Tri Color Red, White, Blue	\$1,675.00	EA	\$1,675.00
1	SOUNDOFF SIGNAL REAR WINDOW Lightbar Blue/White/Amber/Red with Arrow Stick Feature	\$910.00	EA	\$910.00
2	SOUNDOFF SIGNAL SL RUNNING LIGHT 61" TRI COLOR RED/WHITE/BLUE	\$486.00		\$972.00
1	SL RUNNING LIGHT Mounting Brackets Ford Explorer	\$32.00	EA	\$32.00
4	SOUNDOFF SIGNAL Mpower 3" Stud Mount Tri Color Red/Blue/White	\$140.00		\$560.00
10	SOUNDOFF SIGNAL Mpower 4" Stud Mount Tri Color Red/Blue/White	\$157.00		\$1,570.00
2	UNIVERSAL UNDERCOVER LED INSERT	\$90.00	EA	\$180.00
2	REPLACEMENT COLLAR KIT	\$5.75	EA	\$11.50
1	16 FLASHBACK TAILLIGHT FLASHERS	\$0.00	EA	\$0.00
2	SOUNDOFF SIREN Speaker 100 Watt Each	\$253.00	EA	\$506.00
1	SOUNDOFF NERGY 400 SERIES SIREN 200 Watt Remote Mount Button Control	\$676.00	EA	\$676.00
2	100N/100J SERIES SPEAKER BRACKET Behind Bumper Bracket	\$28.00	EA	\$56.00
1	VSX CONSOLE W/ FRONT, CUP HOLDER & FUSE BLOCK Faceplates: C-EB35-SN4-1P, C-EB30-APR-1P, C-EB25-XPR-1P	\$559.00	EA	\$559.00
2	INTERNAL MOUNT ARMREST	\$259.00	EA	\$518.00
1	CONSOLE ACCESSORY BRACKET W/ 2 LIGHT PLUG OUTLETS & 1 BLANK FOR RECTANGULAR ACCESSORIES	\$69.00	EA	\$69.00
2	USB-C & USB TYPE A DUAL PORT CHARGER	\$77.00	EA	\$154.00
2	MIC HANGER Police 800 Radio Fire 800 Radio	\$35.00	EA	\$70.00
1	VEHICLE INSTALL LABOR	\$3,000.00	EA	\$3,000.00

By signing below, I am entering into a contract to purchase the products listed above. I have authority to purchase for this company, and the charges incurred as a result of this purchase will be paid within the payment terms outlined at the top of this paragraph.
 P&R's return policy can be found at: <https://www.pandrcommunications.com/about/return-policy/>



QUO2552



<https://www.pandrcommunications.com/>

P&R Communications Service, Inc.
731 East 1st St.
Dayton, OH 45402
736 S. Vandemark Rd.
Sidney, OH 45365
4910 Wynscape Rd.
Oregon, OH 43616
(937) 512-8100

Quote
QUO2552
Date: 1/22/2025
Expiration Date: 2/21/2025

Quantity	Item	Unit Price	UOM	Amount
1	MISCELLANEOUS PARTS	\$150.00		\$150.00
1	SHOP SUPPLIES	\$75.00		\$75.00

Subtotal \$11,743.50

Inbound Freight \$262.31

Tax Total (7.75%) \$0.00

Total \$12,005.81

By signing below, I am entering into a contract to purchase the products listed above. I have authority to purchase for this company, and the charges incurred as a result of this purchase will be paid within the payment terms outlined at the top of this paragraph.
P&R's return policy can be found at: <https://www.pandrcommunications.com/about/return-policy/>



QUO2552



P&R Communications Service, Inc.
 731 East 1st St.
 Dayton, OH 45402
 736 S. Vandemark Rd.
 Sidney, OH 45365
 4910 Wynscape Rd.
 Oregon, OH 43616
 (937) 512-8100

<https://www.pandrcommunications.com/>

Quote
QUO2416
Date: 1/9/2025
Expiration Date: 2/8/2025

Bill To	Note
12139 Perrysburg Police Department 330 Walnut Street Perrysburg OH 43551 United States	Please reference Quote# on purchase order. Prices firm for 15 days.

Terms	PO #	Sales Rep	Contact
Net 30		Dave Mack	Patrick Jones

Quantity	Item	Unit Price	UOM	Amount
1	SOUNDOFF SIGNAL REAR WINDOW Lightbar Blue/White/Amber W/ Arrow Stick Feature	\$910.00	EA	\$910.00
2	UNIVERSAL UNDERCOVER LED INSERT White Headlight	\$90.00	EA	\$180.00
2	REPLACEMENT COLLAR KIT Led Headlight Insert.	\$5.75	EA	\$11.50
1	16 FLASHBACK TAILLIGHT FLASHERS	\$0.00	EA	\$0.00
1	SOUNDOFF NERGY 400 SERIES SIREN 200 Watt	\$676.00	EA	\$676.00
2	SOUNDOFF SIREN Speaker 100Watt Each	\$253.00	EA	\$506.00
2	100N/100J SERIES SPEAKER Behind Bumper BRACKET	\$28.00	EA	\$56.00
2	MPOWER 3" FASCIA LIGHT, Blue/White Under Hatch	\$100.00	EA	\$200.00
1	MPOWER LIGHTBAR 55" Blue White	\$2,580.00	EA	\$2,580.00
2	SL RUNNING LIGHT Blue White =====	\$486.00	EA	\$972.00
	REQUIRES APPROPRIATE VEHICLE SPECIFIC MOUNTING BRACKET			
	=====			
1	SL RUNNING LIGHT Mounting Brackets Ford Explorer	\$32.00	EA	\$32.00
10	MPOWER FASCIA 4" LIGHT Blue White 4 For Push Bumper, 2 Rear Hatch, 2 Rear Side Window.	\$132.00	EA	\$1,320.00
1	Havis HIGH ANGLED CONSOLE 22" Faceplates: C-EB30-APR-1P, C-EB25-XPR-1P, C-EB35-S38-1P	\$512.00	EA	\$512.00
1	SELF ADJUSTING DOUBLE CUP HOLDER	\$53.00	EA	\$53.00
1	ARMREST FOR TOP MOUNT, LARGE PAD	\$144.00	EA	\$144.00
1	11" SLIDE OUT LOCKING SWING ARM	\$289.00	EA	\$289.00
1	HVAC RELOCATION BRACKET	\$48.00	EA	\$48.00
1	HAVIS DOCKING STATION FOR GETAC A140 RUGGED TABLET	\$953.00	EA	\$953.00

By signing below, I am entering into a contract to purchase the products listed above. I have authority to purchase for this company, and the charges incurred as a result of this purchase will be paid within the payment terms outlined at the top of this paragraph.
 P&R's return policy can be found at: <https://www.pandrcommunications.com/about/return-policy/>



QUO2416



P&R Communications Service, Inc.
731 East 1st St.
Dayton, OH 45402
736 S. Vandemark Rd.
Sidney, OH 45365
4910 Wynscape Rd.
Oregon, OH 43616
(937) 512-8100

<https://www.pandrcommunications.com/>

Quote
QUO2416
Date: 1/9/2025
Expiration Date: 2/8/2025

Quantity	Item	Unit Price	UOM	Amount
1	HEAVY-DUTY DASH MOUNT for Computer Dock 2025+ Ford Utility	\$422.00	EA	\$422.00
1	HEAVY-DUTY TELESCOPING POLE, SIDE MOUNT	\$182.00	EA	\$182.00
1	RUGGED KEYBOARD MOUNT & ADAPTER COMBO	\$134.00	EA	\$134.00
1	PUSH BUMPER	\$480.00	EA	\$480.00
1	SPACE SAVER PARTITION	\$850.00	EA	\$850.00
1	REAR TRANSPORT SEATS & FLOOR PANS	\$1,780.00	EA	\$1,780.00
1	PROGRAD WINDOW BARS	\$240.00	EA	\$240.00
1	VERTICAL PARTITION GUNRACK MOUNT Dual Weapon Rack	\$515.00	EA	\$515.00
2	MIC HANGER	\$35.00	EA	\$70.00
1	QUARTERWAVE ROOF MOUNT ANTENNA	\$25.00	EA	\$25.00
1	8" PURSUIT INSTALLATION BRACKETS	\$0.00	EA	\$0.00
1	EZ STAK PURSUIT SERIES 3 Tier with equipment tray custom Perrysburg PD	\$2,732.00	EA	\$2,732.00
1	VEHICLE INSTALL LABOR Includes removing equipment from old vehicle plus installation of new vehicle	\$3,700.00	EA	\$3,700.00
1	MISCELLANEOUS PARTS	\$150.00		\$150.00
1	SHOP SUPPLIES	\$75.00		\$75.00

Subtotal \$20,797.50

Inbound Freight \$480.00

Tax Total (7.75%) \$0.00

Total \$21,277.50

By signing below, I am entering into a contract to purchase the products listed above. I have authority to purchase for this company, and the charges incurred as a result of this purchase will be paid within the payment terms outlined at the top of this paragraph.
P&R's return policy can be found at: <https://www.pandrcommunications.com/about/return-policy/>



TO: Mayor Mackin
President Fuller
Members of City Council

FROM: Timothy W. Effler, Law Director

RE: Resolution 8-2025

DATE: February 4, 2025



Subject Matter/Background

The Police Division is in need of new hardware, software, services, and warranties for body cameras, fleet cameras, and interview room cameras.

Sourcwell has provided a quote for these purchases.

This Resolution authorizes the Mayor and Director of Finance to accept the quote and execute the necessary documents with Sourcwell for a five-year purchasing contract that will include hardware, software, services, and warranties for body cameras, fleet cameras, and interview room cameras. The total cost for 2025 is One Hundred Eleven Thousand Six Hundred Forty-Four Dollars and Ninety-Six Cents (\$111,644.96); the total cost for each additional year 2026-2029 is One Hundred Eleven Thousand Six Hundred Forty-Four Dollars and Ninety-Seven Cents (\$111,644.97), and the total cost of the five-year agreement is Five Hundred Fifty-Eight Thousand Two Hundred Twenty-Four Dollars and Eighty-Four Cents (\$558,224.84).

Financial Review

Account: 4403-21232-55999

Legal Review

This legislation has been reviewed and is appropriately before you.

Recommendation

If City Council is in agreement, a motion to suspend the rules, waive the three readings and pass this legislation as an emergency is appropriate. An Emergency is requested to allow for the most expeditious purchase of necessary equipment for the Police Division.

RESOLUTION 8-2025

A RESOLUTION AUTHORIZING AGREEMENTS WITH AXON ENTERPRISE, INC. FOR THE PURCHASE OF HARDWARE, SOFTWARE, SERVICES, AND WARRANTIES FOR BODY CAMERAS, FLEET CAMERAS, AND INTERVIEW ROOM CAMERAS FOR THE POLICE DIVISION IN AN AMOUNT NOT TO EXCEED FIVE HUNDRED FIFTY-EIGHT THOUSAND TWO HUNDRED TWENTY-FOUR DOLLARS AND EIGHTY-FOUR CENTS (\$558,224.84); AND DECLARING AN EMERGENCY

WHEREAS, the City of Perrysburg is in need of new hardware, software, services, and warranties for body cameras, fleet cameras, and interview room cameras for the Police Division; and,

WHEREAS, the City is a member of Sourcewell, a national cooperative group for purchasing contracts; and,

WHEREAS, Sourcewell offers a cooperative purchasing relationship consistent with Ohio law, including O.R.C. § 9.48; and,

WHEREAS, under the Sourcewell Contract #101223-AXN, the total cost of the five-year agreements for hardware, software, services, and warranties for body cameras, fleet cameras, and interview room cameras is Five Hundred Fifty-Eight Thousand Two Hundred Twenty-Four Dollars and Eighty-Four Cents (\$558,224.84); and,

WHEREAS, the total cost for 2025 is One Hundred Eleven Thousand Six Hundred Forty-Four Dollars and Ninety-Six Cents (\$111,644.96); the total cost for each additional year 2026-2029 is One Hundred Eleven Thousand Six Hundred Forty-Four Dollars and Ninety-Seven Cents (\$111,644.97).

NOW, THEREFORE, BE IT RESOLVED BY THE COUNCIL OF THE CITY OF PERRYSBURG, WOOD COUNTY, OHIO:

SECTION 1. The Mayor and Director of Finance are authorized to enter into five-year agreements with Axon Enterprise, Inc. for hardware, software, services, and warranties for body cameras, fleet cameras, and interview room cameras at a cost not to exceed Five Hundred Fifty-Eight Thousand Two Hundred Twenty-Four Dollars and Eighty-Four Cents (\$558,224.84).

SECTION 2. It is found and determined that all formal actions of Council concerning or relating to the passage of this Resolution were adopted in an open meeting of the Council, and that all deliberations of this Council and any of its

committees, that resulted in such formal actions, were in meetings open to the public in compliance with all legal requirements of the City of Perrysburg and the State of Ohio.

SECTION 3. This Resolution is hereby declared to be an emergency measure necessary for the immediate preservation of the public peace, health and safety of the citizens of the City of Perrysburg, Wood County, Ohio, to ensure timely purchase and implementation of these services, and shall be in full force and effect from and immediately after its passage and approval by the Mayor.

President of Council

Mayor

PASSED _____

ATTEST: _____

APPROVED: _____

Timothy W. Effler
LAW DIRECTOR



Axon Enterprise, Inc.
17800 N 85th St.
Scottsdale, Arizona 85255
United States
VAT: 86-0741227
Domestic: (800) 978-2737
International: +1.800.978.2737

Q-526768-45670.883JC

Issued: 01/13/2025

Quote Expiration: 03/31/2025

Estimated Contract Start Date: 06/01/2025

Account Number: 464502

Payment Terms: N30

Delivery Method:

SHIP TO	BILL TO
Perrysburg Police Dept - OH 330 WALNUT ST PERRYSBURG, OH 43551-1455 USA	Perrysburg Police Dept - OH 330 WALNUT ST PERRYSBURG OH 43551-1455 USA Email:

SALES REPRESENTATIVE	PRIMARY CONTACT
Joslyn Camacho Phone: Email: jcamacho@axon.com Fax:	Pat Jones Phone: (419) 872-8001 Email: pjones@ci.perrysburg.oh.us Fax:

Quote Summary

Program Length	60 Months
TOTAL COST	\$212,211.80
ESTIMATED TOTAL W/ TAX	\$212,211.80

Discount Summary

Average Savings Per Year	\$23,325.52
TOTAL SAVINGS	\$116,627.60

Payment Summary

Date	Subtotal	Tax	Total
May 2025	\$42,442.36	\$0.00	\$42,442.36
May 2026	\$42,442.36	\$0.00	\$42,442.36
May 2027	\$42,442.36	\$0.00	\$42,442.36
May 2028	\$42,442.36	\$0.00	\$42,442.36
May 2029	\$42,442.36	\$0.00	\$42,442.36
Total	\$212,211.80	\$0.00	\$212,211.80

Quote Unbundled Price:	\$328,839.40
Quote List Price:	\$212,711.80
Quote Subtotal:	\$212,211.80

Pricing

All deliverables are detailed in Delivery Schedules section lower in proposal

Item	Description	Qty	Term	Unbundled	List Price	Net Price	Subtotal	Tax	Total
Program									
B00047	BUNDLE - AXON BODY CAMERA STARTER BUNDLE	47	60	\$94.26	\$53.08	\$53.08	\$149,685.60	\$0.00	\$149,685.60
A la Carte Software									
100673	AXON EVIDENCE - ECOM LICENSE - CONVERSION BASIC TO PRO	9	60		\$27.12	\$27.12	\$14,644.80	\$0.00	\$14,644.80
73449	AXON RESPOND - LICENSE	47	60		\$5.42	\$5.42	\$15,284.40	\$0.00	\$15,284.40
73478	AXON EVIDENCE - REDACTION ASSISTANT USER LICENSE	47	60		\$10.85	\$10.85	\$30,597.00	\$0.00	\$30,597.00
A la Carte Services									
80146	AXON BODY - PSO - VIRTUAL STARTER	1			\$2,500.00	\$2,000.00	\$2,000.00	\$0.00	\$2,000.00
Total							\$212,211.80	\$0.00	\$212,211.80

Delivery Schedule

Hardware

Bundle	Item	Description	QTY	Shipping Location	Estimated Delivery Date
BUNDLE - AXON BODY CAMERA STARTER BUNDLE	100147	AXON BODY 4 - CAMERA - NA US FIRST RESPONDER BLK RAPIDLOCK	47		05/01/2025
BUNDLE - AXON BODY CAMERA STARTER BUNDLE	100147	AXON BODY 4 - CAMERA - NA US FIRST RESPONDER BLK RAPIDLOCK	1		05/01/2025
BUNDLE - AXON BODY CAMERA STARTER BUNDLE	100206	AXON BODY 4 - 8 BAY DOCK	6		05/01/2025
BUNDLE - AXON BODY CAMERA STARTER BUNDLE	100466	AXON BODY 4 - CABLE - USB-C TO USB-C	52		05/01/2025
BUNDLE - AXON BODY CAMERA STARTER BUNDLE	70033	AXON - DOCK WALL MOUNT - BRACKET ASSY	6		05/01/2025
BUNDLE - AXON BODY CAMERA STARTER BUNDLE	71019	AXON BODY - DOCK POWERCORD - NORTH AMERICA	6		05/01/2025
BUNDLE - AXON BODY CAMERA STARTER BUNDLE	74020	AXON BODY - MOUNT - MAGNET FLEXIBLE RAPIDLOCK	52		05/01/2025
BUNDLE - AXON BODY CAMERA STARTER BUNDLE	73309	AXON BODY - TAP REFRESH 1 - CAMERA	48		11/01/2027
BUNDLE - AXON BODY CAMERA STARTER BUNDLE	73689	AXON BODY - TAP REFRESH 1 - DOCK MULTI BAY	6		11/01/2027

Software

Bundle	Item	Description	QTY	Estimated Start Date	Estimated End Date
BUNDLE - AXON BODY CAMERA STARTER BUNDLE	73686	AXON EVIDENCE - STORAGE - UNLIMITED (AXON DEVICE)	47	06/01/2025	05/31/2030
BUNDLE - AXON BODY CAMERA STARTER BUNDLE	73840	AXON EVIDENCE - ECOM LICENSE - BASIC	47	06/01/2025	05/31/2030
A la Carte	100673	AXON EVIDENCE - ECOM LICENSE - CONVERSION BASIC TO PRO	9	06/01/2025	05/31/2030
A la Carte	73449	AXON RESPOND - LICENSE	47	06/01/2025	05/31/2030
A la Carte	73478	AXON EVIDENCE - REDACTION ASSISTANT USER LICENSE	47	06/01/2025	05/31/2030

Services

Bundle	Item	Description	QTY
A la Carte	80146	AXON BODY - PSO - VIRTUAL STARTER	1

Warranties

Bundle	Item	Description	QTY	Estimated Start Date	Estimated End Date
BUNDLE - AXON BODY CAMERA STARTER BUNDLE	80464	AXON BODY - TAP WARRANTY - CAMERA	47	05/01/2026	05/31/2030
BUNDLE - AXON BODY CAMERA STARTER BUNDLE	80464	AXON BODY - TAP WARRANTY - CAMERA	1	05/01/2026	05/31/2030
BUNDLE - AXON BODY CAMERA STARTER BUNDLE	80465	AXON BODY - TAP WARRANTY - MULTI BAY DOCK	6	05/01/2026	05/31/2030

Shipping Locations

Location Number	Street	City	State	Zip	Country
	330 WALNUT ST	PERRYSBURG	OH	43551-1455	USA

Payment Details

May 2025

Invoice Plan	Item	Description	Qty	Subtotal	Tax	Total
Year 1	100673	AXON EVIDENCE - ECOM LICENSE - CONVERSION BASIC TO PRO	9	\$2,928.96	\$0.00	\$2,928.96
Year 1	73449	AXON RESPOND - LICENSE	47	\$3,056.88	\$0.00	\$3,056.88
Year 1	73478	AXON EVIDENCE - REDACTION ASSISTANT USER LICENSE	47	\$6,119.40	\$0.00	\$6,119.40
Year 1	80146	AXON BODY - PSO - VIRTUAL STARTER	1	\$400.00	\$0.00	\$400.00
Year 1	B00047	BUNDLE - AXON BODY CAMERA STARTER BUNDLE	47	\$29,937.12	\$0.00	\$29,937.12
Total				\$42,442.36	\$0.00	\$42,442.36

May 2026

Invoice Plan	Item	Description	Qty	Subtotal	Tax	Total
Year 2	100673	AXON EVIDENCE - ECOM LICENSE - CONVERSION BASIC TO PRO	9	\$2,928.96	\$0.00	\$2,928.96
Year 2	73449	AXON RESPOND - LICENSE	47	\$3,056.88	\$0.00	\$3,056.88
Year 2	73478	AXON EVIDENCE - REDACTION ASSISTANT USER LICENSE	47	\$6,119.40	\$0.00	\$6,119.40
Year 2	80146	AXON BODY - PSO - VIRTUAL STARTER	1	\$400.00	\$0.00	\$400.00
Year 2	B00047	BUNDLE - AXON BODY CAMERA STARTER BUNDLE	47	\$29,937.12	\$0.00	\$29,937.12
Total				\$42,442.36	\$0.00	\$42,442.36

May 2027

Invoice Plan	Item	Description	Qty	Subtotal	Tax	Total
Year 3	100673	AXON EVIDENCE - ECOM LICENSE - CONVERSION BASIC TO PRO	9	\$2,928.96	\$0.00	\$2,928.96
Year 3	73449	AXON RESPOND - LICENSE	47	\$3,056.88	\$0.00	\$3,056.88
Year 3	73478	AXON EVIDENCE - REDACTION ASSISTANT USER LICENSE	47	\$6,119.40	\$0.00	\$6,119.40
Year 3	80146	AXON BODY - PSO - VIRTUAL STARTER	1	\$400.00	\$0.00	\$400.00
Year 3	B00047	BUNDLE - AXON BODY CAMERA STARTER BUNDLE	47	\$29,937.12	\$0.00	\$29,937.12
Total				\$42,442.36	\$0.00	\$42,442.36

May 2028

Invoice Plan	Item	Description	Qty	Subtotal	Tax	Total
Year 4	100673	AXON EVIDENCE - ECOM LICENSE - CONVERSION BASIC TO PRO	9	\$2,928.96	\$0.00	\$2,928.96
Year 4	73449	AXON RESPOND - LICENSE	47	\$3,056.88	\$0.00	\$3,056.88
Year 4	73478	AXON EVIDENCE - REDACTION ASSISTANT USER LICENSE	47	\$6,119.40	\$0.00	\$6,119.40
Year 4	80146	AXON BODY - PSO - VIRTUAL STARTER	1	\$400.00	\$0.00	\$400.00
Year 4	B00047	BUNDLE - AXON BODY CAMERA STARTER BUNDLE	47	\$29,937.12	\$0.00	\$29,937.12
Total				\$42,442.36	\$0.00	\$42,442.36

May 2029

Invoice Plan	Item	Description	Qty	Subtotal	Tax	Total
Year 5	100673	AXON EVIDENCE - ECOM LICENSE - CONVERSION BASIC TO PRO	9	\$2,928.96	\$0.00	\$2,928.96
Year 5	73449	AXON RESPOND - LICENSE	47	\$3,056.88	\$0.00	\$3,056.88
Year 5	73478	AXON EVIDENCE - REDACTION ASSISTANT USER LICENSE	47	\$6,119.40	\$0.00	\$6,119.40

May 2029						
Invoice Plan	Item	Description	Qty	Subtotal	Tax	Total
Year 5	80146	AXON BODY - PSO - VIRTUAL STARTER	1	\$400.00	\$0.00	\$400.00
Year 5	B00047	BUNDLE - AXON BODY CAMERA STARTER BUNDLE	47	\$29,937.12	\$0.00	\$29,937.12
Total				\$42,442.36	\$0.00	\$42,442.36

Tax is estimated based on rates applicable at date of quote and subject to change at time of invoicing. If a tax exemption certificate should be applied, please submit prior to invoicing.

Contract Sourcwell #101223-AXN is incorporated by reference into the terms and conditions of this Agreement. In the event of conflict the terms of Axon's Master Services and Purchasing Agreement shall govern.

Standard Terms and Conditions

Axon Enterprise Inc. Sales Terms and Conditions

Axon Master Services and Purchasing Agreement:

This Quote is limited to and conditional upon your acceptance of the provisions set forth herein and Axon's Master Services and Purchasing Agreement (posted at <https://www.axon.com/sales-terms-and-conditions>), as well as the attached Statement of Work (SOW) for Axon Fleet and/or Axon Interview Room purchase, if applicable. In the event you and Axon have entered into a prior agreement to govern all future purchases, that agreement shall govern to the extent it includes the products and services being purchased and does not conflict with the Axon Customer Experience Improvement Program Appendix as described below.

ACEIP:

The Axon Customer Experience Improvement Program Appendix, which includes the sharing of de-identified segments of Agency Content with Axon to develop new products and improve your product experience (posted at www.axon.com/legal/sales-terms-and-conditions), is incorporated herein by reference. By signing below, you agree to the terms of the Axon Customer Experience Improvement Program.

Acceptance of Terms:

Any purchase order issued in response to this Quote is subject solely to the above referenced terms and conditions. By signing below, you represent that you are lawfully able to enter into contracts. If you are signing on behalf of an entity (including but not limited to the company, municipality, or government agency for whom you work), you represent to Axon that you have legal authority to bind that entity. If you do not have this authority, please do not sign this Quote.

Signature

Date Signed

1/13/2025





Axon Enterprise, Inc.
17800 N 85th St.
Scottsdale, Arizona 85255
United States
VAT: 86-0741227
Domestic: (800) 978-2737
International: +1.800.978.2737

Q-603763-45671.800JC

Issued: 01/14/2025

Quote Expiration: 03/31/2025

Estimated Contract Start Date: 06/01/2025

Account Number: 464502

Payment Terms: N30

Delivery Method:

SHIP TO	BILL TO	SALES REPRESENTATIVE	PRIMARY CONTACT
Perrysburg Police Dept - OH 330 WALNUT ST PERRYSBURG, OH 43551-1455 USA	Perrysburg Police Dept - OH 330 WALNUT ST PERRYSBURG OH 43551-1455 USA Email:	Joslyn Camacho Phone: Email: jcamacho@axon.com Fax:	Pat Jones Phone: (419) 872-8001 Email: pjones@ci.perrysburg.oh.us Fax:

Quote Summary

Program Length	60 Months
TOTAL COST	\$222,307.04
ESTIMATED TOTAL W/ TAX	\$222,307.04

Discount Summary

Average Savings Per Year	\$9,294.50
TOTAL SAVINGS	\$46,472.48

Payment Summary

Date	Subtotal	Tax	Total
May 2025	\$44,461.40	\$0.00	\$44,461.40
May 2026	\$44,461.41	\$0.00	\$44,461.41
May 2027	\$44,461.41	\$0.00	\$44,461.41
May 2028	\$44,461.41	\$0.00	\$44,461.41
May 2029	\$44,461.41	\$0.00	\$44,461.41
Total	\$222,307.04	\$0.00	\$222,307.04

Quote List Price:

\$268,779.52

Quote Subtotal:

\$222,307.04

Pricing

All deliverables are detailed in Delivery Schedules section lower in proposal

Item	Description	Term	Qty	List Price	Net Price	Subtotal	Tax	Total
Fleet 3 Advanced								
70112	AXON SIGNAL - VEHICLE		16	\$279.00	\$253.68	\$4,058.88	\$0.00	\$4,058.88
80410	AXON EVIDENCE - STORAGE - FLEET 1 CAMERA UNLIMITED	60m	32	\$1,152.00	\$357.45	\$11,438.40	\$0.00	\$11,438.40
80402	AXON FLEET - LICENSE - REAL-TIME LOCATION, ALERTS, & LIVESTREAM	60m	16	\$1,015.20	\$923.07	\$14,769.12	\$0.00	\$14,769.12
80400	AXON EVIDENCE - FLEET VEHICLE LICENSE	60m	16	\$1,354.20	\$1,231.30	\$19,700.80	\$0.00	\$19,700.80
73391	AXON FLEET 3 - DEPLOYMENT PER VEHICLE - NOT OVERSIZED		16	\$1,700.00	\$1,545.72	\$24,731.52	\$0.00	\$24,731.52
72036	AXON FLEET 3 - STANDARD 2 CAMERA KIT		16	\$2,695.00	\$2,450.42	\$39,206.72	\$0.00	\$39,206.72
72040	AXON FLEET - TAP REFRESH 1 - 2 CAMERA KIT		16	\$3,058.00	\$2,780.48	\$44,487.68	\$0.00	\$44,487.68
80401	AXON FLEET 3 - ALPR LICENSE - 1 CAMERA	60m	16	\$3,840.60	\$3,492.06	\$55,872.96	\$0.00	\$55,872.96
80379	AXON SIGNAL - EXT WARRANTY - SIGNAL UNIT	49m	16	\$65.17	\$59.26	\$948.16	\$0.00	\$948.16
80495	AXON FLEET 3 - EXT WARRANTY - 2 CAMERA KIT	49m	16	\$487.55	\$443.30	\$7,092.80	\$0.00	\$7,092.80
Total						\$222,307.04	\$0.00	\$222,307.04

Delivery Schedule

Hardware

Bundle	Item	Description	QTY	Shipping Location	Estimated Delivery Date
Fleet 3 Advanced	70112	AXON SIGNAL - VEHICLE	16	1	05/01/2025
Fleet 3 Advanced	72036	AXON FLEET 3 - STANDARD 2 CAMERA KIT	16	1	05/01/2025
Fleet 3 Advanced	72040	AXON FLEET - TAP REFRESH 1 - 2 CAMERA KIT	16	1	05/01/2030

Software

Bundle	Item	Description	QTY	Estimated Start Date	Estimated End Date
Fleet 3 Advanced	80400	AXON EVIDENCE - FLEET VEHICLE LICENSE	16	06/01/2025	05/31/2030
Fleet 3 Advanced	80401	AXON FLEET 3 - ALPR LICENSE - 1 CAMERA	16	06/01/2025	05/31/2030
Fleet 3 Advanced	80402	AXON FLEET - LICENSE - REAL-TIME LOCATION, ALERTS, & LIVESTREAM	16	06/01/2025	05/31/2030
Fleet 3 Advanced	80410	AXON EVIDENCE - STORAGE - FLEET 1 CAMERA UNLIMITED	32	06/01/2025	05/31/2030

Services

Bundle	Item	Description	QTY
Fleet 3 Advanced	73391	AXON FLEET 3 - DEPLOYMENT PER VEHICLE - NOT OVERSIZED	16

Warranties

Bundle	Item	Description	QTY	Estimated Start Date	Estimated End Date
Fleet 3 Advanced	80379	AXON SIGNAL - EXT WARRANTY - SIGNAL UNIT	16	05/01/2026	05/31/2030
Fleet 3 Advanced	80495	AXON FLEET 3 - EXT WARRANTY - 2 CAMERA KIT	16	05/01/2026	05/31/2030

Shipping Locations

Location Number	Street	City	State	Zip	Country
1	330 WALNUT ST	PERRYSBURG	OH	43551-1455	USA

Payment Details

May 2025

Invoice Plan	Item	Description	Qty	Subtotal	Tax	Total
Year 1	70112	AXON SIGNAL - VEHICLE	16	\$811.78	\$0.00	\$811.78
Year 1	72036	AXON FLEET 3 - STANDARD 2 CAMERA KIT	16	\$7,841.34	\$0.00	\$7,841.34
Year 1	72040	AXON FLEET - TAP REFRESH 1 - 2 CAMERA KIT	0	\$0.00	\$0.00	\$0.00
Year 1	72040	AXON FLEET - TAP REFRESH 1 - 2 CAMERA KIT	16	\$8,897.54	\$0.00	\$8,897.54
Year 1	73391	AXON FLEET 3 - DEPLOYMENT PER VEHICLE - NOT OVERSIZED	16	\$4,946.30	\$0.00	\$4,946.30
Year 1	80379	AXON SIGNAL - EXT WARRANTY - SIGNAL UNIT	16	\$189.63	\$0.00	\$189.63
Year 1	80400	AXON EVIDENCE - FLEET VEHICLE LICENSE	16	\$3,940.16	\$0.00	\$3,940.16
Year 1	80401	AXON FLEET 3 - ALPR LICENSE - 1 CAMERA	16	\$11,174.59	\$0.00	\$11,174.59
Year 1	80402	AXON FLEET - LICENSE - REAL-TIME LOCATION, ALERTS, & LIVESTREAM	16	\$2,953.82	\$0.00	\$2,953.82
Year 1	80410	AXON EVIDENCE - STORAGE - FLEET 1 CAMERA UNLIMITED	32	\$2,287.68	\$0.00	\$2,287.68
Year 1	80495	AXON FLEET 3 - EXT WARRANTY - 2 CAMERA KIT	16	\$1,418.56	\$0.00	\$1,418.56
Total				\$44,461.40	\$0.00	\$44,461.40

May 2026

Invoice Plan	Item	Description	Qty	Subtotal	Tax	Total
Year 2	70112	AXON SIGNAL - VEHICLE	16	\$811.78	\$0.00	\$811.78
Year 2	72036	AXON FLEET 3 - STANDARD 2 CAMERA KIT	16	\$7,841.34	\$0.00	\$7,841.34
Year 2	72040	AXON FLEET - TAP REFRESH 1 - 2 CAMERA KIT	0	\$0.00	\$0.00	\$0.00
Year 2	72040	AXON FLEET - TAP REFRESH 1 - 2 CAMERA KIT	16	\$8,897.54	\$0.00	\$8,897.54
Year 2	73391	AXON FLEET 3 - DEPLOYMENT PER VEHICLE - NOT OVERSIZED	16	\$4,946.30	\$0.00	\$4,946.30
Year 2	80379	AXON SIGNAL - EXT WARRANTY - SIGNAL UNIT	16	\$189.63	\$0.00	\$189.63
Year 2	80400	AXON EVIDENCE - FLEET VEHICLE LICENSE	16	\$3,940.16	\$0.00	\$3,940.16
Year 2	80401	AXON FLEET 3 - ALPR LICENSE - 1 CAMERA	16	\$11,174.60	\$0.00	\$11,174.60
Year 2	80402	AXON FLEET - LICENSE - REAL-TIME LOCATION, ALERTS, & LIVESTREAM	16	\$2,953.82	\$0.00	\$2,953.82
Year 2	80410	AXON EVIDENCE - STORAGE - FLEET 1 CAMERA UNLIMITED	32	\$2,287.68	\$0.00	\$2,287.68
Year 2	80495	AXON FLEET 3 - EXT WARRANTY - 2 CAMERA KIT	16	\$1,418.56	\$0.00	\$1,418.56
Total				\$44,461.41	\$0.00	\$44,461.41

May 2027

Invoice Plan	Item	Description	Qty	Subtotal	Tax	Total
Year 3	70112	AXON SIGNAL - VEHICLE	16	\$811.78	\$0.00	\$811.78
Year 3	72036	AXON FLEET 3 - STANDARD 2 CAMERA KIT	16	\$7,841.34	\$0.00	\$7,841.34
Year 3	72040	AXON FLEET - TAP REFRESH 1 - 2 CAMERA KIT	0	\$0.00	\$0.00	\$0.00
Year 3	72040	AXON FLEET - TAP REFRESH 1 - 2 CAMERA KIT	16	\$8,897.54	\$0.00	\$8,897.54

May 2027

Invoice Plan	Item	Description	Qty	Subtotal	Tax	Total
Year 3	73391	AXON FLEET 3 - DEPLOYMENT PER VEHICLE - NOT OVERSIZED	16	\$4,946.30	\$0.00	\$4,946.30
Year 3	80379	AXON SIGNAL - EXT WARRANTY - SIGNAL UNIT	16	\$189.63	\$0.00	\$189.63
Year 3	80400	AXON EVIDENCE - FLEET VEHICLE LICENSE	16	\$3,940.16	\$0.00	\$3,940.16
Year 3	80401	AXON FLEET 3 - ALPR LICENSE - 1 CAMERA	16	\$11,174.60	\$0.00	\$11,174.60
Year 3	80402	AXON FLEET - LICENSE - REAL-TIME LOCATION, ALERTS, & LIVESTREAM	16	\$2,953.82	\$0.00	\$2,953.82
Year 3	80410	AXON EVIDENCE - STORAGE - FLEET 1 CAMERA UNLIMITED	32	\$2,287.68	\$0.00	\$2,287.68
Year 3	80495	AXON FLEET 3 - EXT WARRANTY - 2 CAMERA KIT	16	\$1,418.56	\$0.00	\$1,418.56
Total				\$44,461.41	\$0.00	\$44,461.41

May 2028

Invoice Plan	Item	Description	Qty	Subtotal	Tax	Total
Year 4	70112	AXON SIGNAL - VEHICLE	16	\$811.78	\$0.00	\$811.78
Year 4	72036	AXON FLEET 3 - STANDARD 2 CAMERA KIT	16	\$7,841.34	\$0.00	\$7,841.34
Year 4	72040	AXON FLEET - TAP REFRESH 1 - 2 CAMERA KIT	16	\$8,897.54	\$0.00	\$8,897.54
Year 4	72040	AXON FLEET - TAP REFRESH 1 - 2 CAMERA KIT	0	\$0.00	\$0.00	\$0.00
Year 4	73391	AXON FLEET 3 - DEPLOYMENT PER VEHICLE - NOT OVERSIZED	16	\$4,946.30	\$0.00	\$4,946.30
Year 4	80379	AXON SIGNAL - EXT WARRANTY - SIGNAL UNIT	16	\$189.63	\$0.00	\$189.63
Year 4	80400	AXON EVIDENCE - FLEET VEHICLE LICENSE	16	\$3,940.16	\$0.00	\$3,940.16
Year 4	80401	AXON FLEET 3 - ALPR LICENSE - 1 CAMERA	16	\$11,174.60	\$0.00	\$11,174.60
Year 4	80402	AXON FLEET - LICENSE - REAL-TIME LOCATION, ALERTS, & LIVESTREAM	16	\$2,953.82	\$0.00	\$2,953.82
Year 4	80410	AXON EVIDENCE - STORAGE - FLEET 1 CAMERA UNLIMITED	32	\$2,287.68	\$0.00	\$2,287.68
Year 4	80495	AXON FLEET 3 - EXT WARRANTY - 2 CAMERA KIT	16	\$1,418.56	\$0.00	\$1,418.56
Total				\$44,461.41	\$0.00	\$44,461.41

May 2029

Invoice Plan	Item	Description	Qty	Subtotal	Tax	Total
Year 5	70112	AXON SIGNAL - VEHICLE	16	\$811.78	\$0.00	\$811.78
Year 5	72036	AXON FLEET 3 - STANDARD 2 CAMERA KIT	16	\$7,841.34	\$0.00	\$7,841.34
Year 5	72040	AXON FLEET - TAP REFRESH 1 - 2 CAMERA KIT	0	\$0.00	\$0.00	\$0.00
Year 5	72040	AXON FLEET - TAP REFRESH 1 - 2 CAMERA KIT	16	\$8,897.54	\$0.00	\$8,897.54
Year 5	73391	AXON FLEET 3 - DEPLOYMENT PER VEHICLE - NOT OVERSIZED	16	\$4,946.30	\$0.00	\$4,946.30
Year 5	80379	AXON SIGNAL - EXT WARRANTY - SIGNAL UNIT	16	\$189.63	\$0.00	\$189.63
Year 5	80400	AXON EVIDENCE - FLEET VEHICLE LICENSE	16	\$3,940.16	\$0.00	\$3,940.16
Year 5	80401	AXON FLEET 3 - ALPR LICENSE - 1 CAMERA	16	\$11,174.60	\$0.00	\$11,174.60
Year 5	80402	AXON FLEET - LICENSE - REAL-TIME LOCATION, ALERTS, & LIVESTREAM	16	\$2,953.82	\$0.00	\$2,953.82
Year 5	80410	AXON EVIDENCE - STORAGE - FLEET 1 CAMERA UNLIMITED	32	\$2,287.68	\$0.00	\$2,287.68
Year 5	80495	AXON FLEET 3 - EXT WARRANTY - 2 CAMERA KIT	16	\$1,418.56	\$0.00	\$1,418.56
Total				\$44,461.41	\$0.00	\$44,461.41

Tax is estimated based on rates applicable at date of quote and subject to change at time of invoicing. If a tax exemption certificate should be applied, please submit prior to invoicing.

Contract Sourcwell #101223-AXN is incorporated by reference into the terms and conditions of this Agreement. In the event of conflict the terms of Axon's Master Services and Purchasing Agreement shall govern.

Standard Terms and Conditions

Axon Enterprise Inc. Sales Terms and Conditions

Axon Master Services and Purchasing Agreement:

This Quote is limited to and conditional upon your acceptance of the provisions set forth herein and Axon's Master Services and Purchasing Agreement (posted at <https://www.axon.com/sales-terms-and-conditions>), as well as the attached Statement of Work (SOW) for Axon Fleet and/or Axon Interview Room purchase, if applicable. In the event you and Axon have entered into a prior agreement to govern all future purchases, that agreement shall govern to the extent it includes the products and services being purchased and does not conflict with the Axon Customer Experience Improvement Program Appendix as described below.

ACEIP:

The Axon Customer Experience Improvement Program Appendix, which includes the sharing of de-identified segments of Agency Content with Axon to develop new products and improve your product experience (posted at www.axon.com/legal/sales-terms-and-conditions), is incorporated herein by reference. By signing below, you agree to the terms of the Axon Customer Experience Improvement Program.

Acceptance of Terms:

Any purchase order issued in response to this Quote is subject solely to the above referenced terms and conditions. By signing below, you represent that you are lawfully able to enter into contracts. If you are signing on behalf of an entity (including but not limited to the company, municipality, or government agency for whom you work), you represent to Axon that you have legal authority to bind that entity. If you do not have this authority, please do not sign this Quote.

Signature

Date Signed

1/14/2025





Axon Enterprise, Inc.
17800 N 85th St.
Scottsdale, Arizona 85255
United States
VAT: 86-0741227
Domestic: (800) 978-2737
International: +1.800.978.2737

Q-608060-45670.886JC

Issued: 01/13/2025

Quote Expiration: 03/31/2025

Estimated Contract Start Date: 06/01/2025

Account Number: 464502

Payment Terms: N30

Delivery Method:

SHIP TO	BILL TO
Perrysburg Police Dept - OH 330 WALNUT ST PERRYSBURG, OH 43551-1455 USA	Perrysburg Police Dept - OH 330 WALNUT ST PERRYSBURG OH 43551-1455 USA Email:

SALES REPRESENTATIVE	PRIMARY CONTACT
Joslyn Camacho Phone: Email: jcamacho@axon.com Fax:	Chris Sargent Phone: (419) 872-8001 Email: csargent@ci.perrysburg.oh.us Fax:

Quote Summary

Program Length	60 Months
TOTAL COST	\$123,706.00
ESTIMATED TOTAL W/ TAX	\$123,706.00

Discount Summary

Average Savings Per Year	\$12.80
TOTAL SAVINGS	\$64.00

Payment Summary

Date	Subtotal	Tax	Total
May 2025	\$24,741.20	\$0.00	\$24,741.20
May 2026	\$24,741.20	\$0.00	\$24,741.20
May 2027	\$24,741.20	\$0.00	\$24,741.20
May 2028	\$24,741.20	\$0.00	\$24,741.20
May 2029	\$24,741.20	\$0.00	\$24,741.20
Total	\$123,706.00	\$0.00	\$123,706.00

Quote Unbundled Price:	\$123,770.00
Quote List Price:	\$123,770.00
Quote Subtotal:	\$123,706.00

Pricing

All deliverables are detailed in Delivery Schedules section lower in proposal

Item	Description	Qty	Term	Unbundled	List Price	Net Price	Subtotal	Tax	Total
A la Carte Hardware									
74056	AXON INTERVIEW - TOUCH PANEL WALL MOUNT	4			\$64.00	\$64.00	\$256.00	\$0.00	\$256.00
50221	AXON INTERVIEW - POE SWITCH - 24 PORT	1			\$1,518.00	\$1,518.00	\$1,518.00	\$0.00	\$1,518.00
74116	AXON INTERVIEW - ENCLOSURE - FLUSH MOUNT	4			\$110.00	\$110.00	\$440.00	\$0.00	\$440.00
50118	AXON INTERVIEW - MIC - WIRED (STANDARD MIC)	4			\$209.00	\$209.00	\$836.00	\$0.00	\$836.00
50114	AXON INTERVIEW - CAMERA - COVERT SENSOR	4			\$356.00	\$356.00	\$1,424.00	\$0.00	\$1,424.00
50218	AXON INTERVIEW - CAMERA - COVERT MAIN UNIT	4			\$700.00	\$684.00	\$2,736.00	\$0.00	\$2,736.00
50118	AXON INTERVIEW - MIC - WIRED (STANDARD MIC)	4			\$209.00	\$209.00	\$836.00	\$0.00	\$836.00
50298	AXON INTERVIEW - CAMERA - OVERT DOME	4			\$985.00	\$985.00	\$3,940.00	\$0.00	\$3,940.00
50294	AXON INTERVIEW - SERVER - LITE	2			\$2,934.00	\$2,934.00	\$5,868.00	\$0.00	\$5,868.00
50322	AXON INTERVIEW - TOUCH PANEL PRO	4			\$2,532.00	\$2,532.00	\$10,128.00	\$0.00	\$10,128.00
A la Carte Software									
50041	AXON INTERVIEW - STREAMING SERVER LICENSE - PER SERVER	2	60		\$1,750.00	\$1,750.00	\$3,500.00	\$0.00	\$3,500.00
50043	AXON INTERVIEW - STREAMING SERVER MAINTENANCE - PER SERVER	2	60		\$32.98	\$32.98	\$3,957.60	\$0.00	\$3,957.60
50037	AXON INTERVIEW - CLIENT SOFTWARE - PER TOUCH PANEL-PC	4	60		\$1,500.00	\$1,500.00	\$6,000.00	\$0.00	\$6,000.00
50039	AXON INTERVIEW - CLIENT SOFTWARE - MAINT. PER TOUCH PANEL	4	60		\$28.21	\$28.21	\$6,770.40	\$0.00	\$6,770.40
50045	AXON EVIDENCE - STORAGE - INTERVIEW ROOM UNLIMITED	8	60		\$111.75	\$111.75	\$53,640.00	\$0.00	\$53,640.00
A la Carte Services									
85170	AXON INTERVIEW - INSTALLATION - STANDARD (PER ROOM)	4			\$5,000.00	\$5,000.00	\$20,000.00	\$0.00	\$20,000.00
A la Carte Warranties									
101648	AXON INTERVIEW - EXT WARRANTY - 5 YEARS	4			\$464.00	\$464.00	\$1,856.00	\$0.00	\$1,856.00
Total							\$123,706.00	\$0.00	\$123,706.00

Delivery Schedule

Hardware

Bundle	Item	Description	QTY	Shipping Location	Estimated Delivery Date
A la Carte	50114	AXON INTERVIEW - CAMERA - COVERT SENSOR	4	1	05/01/2025
A la Carte	50118	AXON INTERVIEW - MIC - WIRED (STANDARD MIC)	4	1	05/01/2025
A la Carte	50118	AXON INTERVIEW - MIC - WIRED (STANDARD MIC)	4	1	05/01/2025
A la Carte	50218	AXON INTERVIEW - CAMERA - COVERT MAIN UNIT	4	1	05/01/2025
A la Carte	50221	AXON INTERVIEW - POE SWITCH - 24 PORT	1	1	05/01/2025

Hardware

Bundle	Item	Description	QTY	Shipping Location	Estimated Delivery Date
A la Carte	50294	AXON INTERVIEW - SERVER - LITE	2	1	05/01/2025
A la Carte	50298	AXON INTERVIEW - CAMERA - OVERT DOME	4	1	05/01/2025
A la Carte	50322	AXON INTERVIEW - TOUCH PANEL PRO	4	1	05/01/2025
A la Carte	74056	AXON INTERVIEW - TOUCH PANEL WALL MOUNT	4	1	05/01/2025
A la Carte	74116	AXON INTERVIEW - ENCLOSURE - FLUSH MOUNT	4	1	05/01/2025

Software

Bundle	Item	Description	QTY	Estimated Start Date	Estimated End Date
A la Carte	50037	AXON INTERVIEW - CLIENT SOFTWARE - PER TOUCH PANEL-PC	4	06/01/2025	05/31/2030
A la Carte	50039	AXON INTERVIEW - CLIENT SOFTWARE - MAINT. PER TOUCH PANEL	4	06/01/2025	05/31/2030
A la Carte	50041	AXON INTERVIEW - STREAMING SERVER LICENSE - PER SERVER	2	06/01/2025	05/31/2030
A la Carte	50043	AXON INTERVIEW - STREAMING SERVER MAINTENANCE - PER SERVER	2	06/01/2025	05/31/2030
A la Carte	50045	AXON EVIDENCE - STORAGE - INTERVIEW ROOM UNLIMITED	8	06/01/2025	05/31/2030

Services

Bundle	Item	Description	QTY
A la Carte	85170	AXON INTERVIEW - INSTALLATION - STANDARD (PER ROOM)	4

Warranties

Bundle	Item	Description	QTY	Estimated Start Date	Estimated End Date
A la Carte	101648	AXON INTERVIEW - EXT WARRANTY - 5 YEARS	4		

Shipping Locations

Location Number	Street	City	State	Zip	Country
1	330 WALNUT ST	PERRYSBURG	OH	43551-1455	USA

Payment Details

May 2025

Invoice Plan	Item	Description	Qty	Subtotal	Tax	Total
Year 1	101648	AXON INTERVIEW - EXT WARRANTY - 5 YEARS	4	\$371.20	\$0.00	\$371.20
Year 1	50037	AXON INTERVIEW - CLIENT SOFTWARE - PER TOUCH PANEL-PC	4	\$1,200.00	\$0.00	\$1,200.00
Year 1	50039	AXON INTERVIEW - CLIENT SOFTWARE - MAINT. PER TOUCH PANEL	4	\$1,354.08	\$0.00	\$1,354.08
Year 1	50041	AXON INTERVIEW - STREAMING SERVER LICENSE - PER SERVER	2	\$700.00	\$0.00	\$700.00
Year 1	50043	AXON INTERVIEW - STREAMING SERVER MAINTENANCE - PER SERVER	2	\$791.52	\$0.00	\$791.52
Year 1	50045	AXON EVIDENCE - STORAGE - INTERVIEW ROOM UNLIMITED	8	\$10,728.00	\$0.00	\$10,728.00
Year 1	50114	AXON INTERVIEW - CAMERA - COVERT SENSOR	4	\$284.80	\$0.00	\$284.80
Year 1	50118	AXON INTERVIEW - MIC - WIRED (STANDARD MIC)	4	\$167.20	\$0.00	\$167.20
Year 1	50118	AXON INTERVIEW - MIC - WIRED (STANDARD MIC)	4	\$167.20	\$0.00	\$167.20
Year 1	50218	AXON INTERVIEW - CAMERA - COVERT MAIN UNIT	4	\$547.20	\$0.00	\$547.20
Year 1	50221	AXON INTERVIEW - POE SWITCH - 24 PORT	1	\$303.60	\$0.00	\$303.60
Year 1	50294	AXON INTERVIEW - SERVER - LITE	2	\$1,173.60	\$0.00	\$1,173.60
Year 1	50298	AXON INTERVIEW - CAMERA - OVERT DOME	4	\$788.00	\$0.00	\$788.00
Year 1	50322	AXON INTERVIEW - TOUCH PANEL PRO	4	\$2,025.60	\$0.00	\$2,025.60
Year 1	74056	AXON INTERVIEW - TOUCH PANEL WALL MOUNT	4	\$51.20	\$0.00	\$51.20
Year 1	74116	AXON INTERVIEW - ENCLOSURE - FLUSH MOUNT	4	\$88.00	\$0.00	\$88.00
Year 1	85170	AXON INTERVIEW - INSTALLATION - STANDARD (PER ROOM)	4	\$4,000.00	\$0.00	\$4,000.00
Total				\$24,741.20	\$0.00	\$24,741.20

May 2026

Invoice Plan	Item	Description	Qty	Subtotal	Tax	Total
Year 2	101648	AXON INTERVIEW - EXT WARRANTY - 5 YEARS	4	\$371.20	\$0.00	\$371.20
Year 2	50037	AXON INTERVIEW - CLIENT SOFTWARE - PER TOUCH PANEL-PC	4	\$1,200.00	\$0.00	\$1,200.00
Year 2	50039	AXON INTERVIEW - CLIENT SOFTWARE - MAINT. PER TOUCH PANEL	4	\$1,354.08	\$0.00	\$1,354.08
Year 2	50041	AXON INTERVIEW - STREAMING SERVER LICENSE - PER SERVER	2	\$700.00	\$0.00	\$700.00
Year 2	50043	AXON INTERVIEW - STREAMING SERVER MAINTENANCE - PER SERVER	2	\$791.52	\$0.00	\$791.52
Year 2	50045	AXON EVIDENCE - STORAGE - INTERVIEW ROOM UNLIMITED	8	\$10,728.00	\$0.00	\$10,728.00
Year 2	50114	AXON INTERVIEW - CAMERA - COVERT SENSOR	4	\$284.80	\$0.00	\$284.80
Year 2	50118	AXON INTERVIEW - MIC - WIRED (STANDARD MIC)	4	\$167.20	\$0.00	\$167.20
Year 2	50118	AXON INTERVIEW - MIC - WIRED (STANDARD MIC)	4	\$167.20	\$0.00	\$167.20
Year 2	50218	AXON INTERVIEW - CAMERA - COVERT MAIN UNIT	4	\$547.20	\$0.00	\$547.20
Year 2	50221	AXON INTERVIEW - POE SWITCH - 24 PORT	1	\$303.60	\$0.00	\$303.60
Year 2	50294	AXON INTERVIEW - SERVER - LITE	2	\$1,173.60	\$0.00	\$1,173.60
Year 2	50298	AXON INTERVIEW - CAMERA - OVERT DOME	4	\$788.00	\$0.00	\$788.00
Year 2	50322	AXON INTERVIEW - TOUCH PANEL PRO	4	\$2,025.60	\$0.00	\$2,025.60
Year 2	74056	AXON INTERVIEW - TOUCH PANEL WALL MOUNT	4	\$51.20	\$0.00	\$51.20
Year 2	74116	AXON INTERVIEW - ENCLOSURE - FLUSH MOUNT	4	\$88.00	\$0.00	\$88.00
Year 2	85170	AXON INTERVIEW - INSTALLATION - STANDARD (PER ROOM)	4	\$4,000.00	\$0.00	\$4,000.00
Total				\$24,741.20	\$0.00	\$24,741.20

May 2027

Invoice Plan	Item	Description	Qty	Subtotal	Tax	Total
Year 3	101648	AXON INTERVIEW - EXT WARRANTY - 5 YEARS	4	\$371.20	\$0.00	\$371.20
Year 3	50037	AXON INTERVIEW - CLIENT SOFTWARE - PER TOUCH PANEL-PC	4	\$1,200.00	\$0.00	\$1,200.00
Year 3	50039	AXON INTERVIEW - CLIENT SOFTWARE - MAINT. PER TOUCH PANEL	4	\$1,354.08	\$0.00	\$1,354.08
Year 3	50041	AXON INTERVIEW - STREAMING SERVER LICENSE - PER SERVER	2	\$700.00	\$0.00	\$700.00
Year 3	50043	AXON INTERVIEW - STREAMING SERVER MAINTENANCE - PER SERVER	2	\$791.52	\$0.00	\$791.52
Year 3	50045	AXON EVIDENCE - STORAGE - INTERVIEW ROOM UNLIMITED	8	\$10,728.00	\$0.00	\$10,728.00
Year 3	50114	AXON INTERVIEW - CAMERA - COVERT SENSOR	4	\$284.80	\$0.00	\$284.80
Year 3	50118	AXON INTERVIEW - MIC - WIRED (STANDARD MIC)	4	\$167.20	\$0.00	\$167.20
Year 3	50118	AXON INTERVIEW - MIC - WIRED (STANDARD MIC)	4	\$167.20	\$0.00	\$167.20
Year 3	50218	AXON INTERVIEW - CAMERA - COVERT MAIN UNIT	4	\$547.20	\$0.00	\$547.20
Year 3	50221	AXON INTERVIEW - POE SWITCH - 24 PORT	1	\$303.60	\$0.00	\$303.60
Year 3	50294	AXON INTERVIEW - SERVER - LITE	2	\$1,173.60	\$0.00	\$1,173.60
Year 3	50298	AXON INTERVIEW - CAMERA - OVERT DOME	4	\$788.00	\$0.00	\$788.00
Year 3	50322	AXON INTERVIEW - TOUCH PANEL PRO	4	\$2,025.60	\$0.00	\$2,025.60
Year 3	74056	AXON INTERVIEW - TOUCH PANEL WALL MOUNT	4	\$51.20	\$0.00	\$51.20
Year 3	74116	AXON INTERVIEW - ENCLOSURE - FLUSH MOUNT	4	\$88.00	\$0.00	\$88.00
Year 3	85170	AXON INTERVIEW - INSTALLATION - STANDARD (PER ROOM)	4	\$4,000.00	\$0.00	\$4,000.00
Total				\$24,741.20	\$0.00	\$24,741.20

May 2028

Invoice Plan	Item	Description	Qty	Subtotal	Tax	Total
Year 4	101648	AXON INTERVIEW - EXT WARRANTY - 5 YEARS	4	\$371.20	\$0.00	\$371.20
Year 4	50037	AXON INTERVIEW - CLIENT SOFTWARE - PER TOUCH PANEL-PC	4	\$1,200.00	\$0.00	\$1,200.00
Year 4	50039	AXON INTERVIEW - CLIENT SOFTWARE - MAINT. PER TOUCH PANEL	4	\$1,354.08	\$0.00	\$1,354.08
Year 4	50041	AXON INTERVIEW - STREAMING SERVER LICENSE - PER SERVER	2	\$700.00	\$0.00	\$700.00
Year 4	50043	AXON INTERVIEW - STREAMING SERVER MAINTENANCE - PER SERVER	2	\$791.52	\$0.00	\$791.52
Year 4	50045	AXON EVIDENCE - STORAGE - INTERVIEW ROOM UNLIMITED	8	\$10,728.00	\$0.00	\$10,728.00
Year 4	50114	AXON INTERVIEW - CAMERA - COVERT SENSOR	4	\$284.80	\$0.00	\$284.80
Year 4	50118	AXON INTERVIEW - MIC - WIRED (STANDARD MIC)	4	\$167.20	\$0.00	\$167.20
Year 4	50118	AXON INTERVIEW - MIC - WIRED (STANDARD MIC)	4	\$167.20	\$0.00	\$167.20
Year 4	50218	AXON INTERVIEW - CAMERA - COVERT MAIN UNIT	4	\$547.20	\$0.00	\$547.20
Year 4	50221	AXON INTERVIEW - POE SWITCH - 24 PORT	1	\$303.60	\$0.00	\$303.60
Year 4	50294	AXON INTERVIEW - SERVER - LITE	2	\$1,173.60	\$0.00	\$1,173.60
Year 4	50298	AXON INTERVIEW - CAMERA - OVERT DOME	4	\$788.00	\$0.00	\$788.00
Year 4	50322	AXON INTERVIEW - TOUCH PANEL PRO	4	\$2,025.60	\$0.00	\$2,025.60
Year 4	74056	AXON INTERVIEW - TOUCH PANEL WALL MOUNT	4	\$51.20	\$0.00	\$51.20
Year 4	74116	AXON INTERVIEW - ENCLOSURE - FLUSH MOUNT	4	\$88.00	\$0.00	\$88.00
Year 4	85170	AXON INTERVIEW - INSTALLATION - STANDARD (PER ROOM)	4	\$4,000.00	\$0.00	\$4,000.00
Total				\$24,741.20	\$0.00	\$24,741.20

May 2029

Invoice Plan	Item	Description	Qty	Subtotal	Tax	Total
Year 5	101648	AXON INTERVIEW - EXT WARRANTY - 5 YEARS	4	\$371.20	\$0.00	\$371.20
Year 5	50037	AXON INTERVIEW - CLIENT SOFTWARE - PER TOUCH PANEL-PC	4	\$1,200.00	\$0.00	\$1,200.00
Year 5	50039	AXON INTERVIEW - CLIENT SOFTWARE - MAINT. PER TOUCH PANEL	4	\$1,354.08	\$0.00	\$1,354.08
Year 5	50041	AXON INTERVIEW - STREAMING SERVER LICENSE - PER SERVER	2	\$700.00	\$0.00	\$700.00
Year 5	50043	AXON INTERVIEW - STREAMING SERVER MAINTENANCE - PER SERVER	2	\$791.52	\$0.00	\$791.52
Year 5	50045	AXON EVIDENCE - STORAGE - INTERVIEW ROOM UNLIMITED	8	\$10,728.00	\$0.00	\$10,728.00
Year 5	50114	AXON INTERVIEW - CAMERA - COVERT SENSOR	4	\$284.80	\$0.00	\$284.80
Year 5	50118	AXON INTERVIEW - MIC - WIRED (STANDARD MIC)	4	\$167.20	\$0.00	\$167.20
Year 5	50118	AXON INTERVIEW - MIC - WIRED (STANDARD MIC)	4	\$167.20	\$0.00	\$167.20

May 2029

Invoice Plan	Item	Description	Qty	Subtotal	Tax	Total
Year 5	50218	AXON INTERVIEW - CAMERA - COVERT MAIN UNIT	4	\$547.20	\$0.00	\$547.20
Year 5	50221	AXON INTERVIEW - POE SWITCH - 24 PORT	1	\$303.60	\$0.00	\$303.60
Year 5	50294	AXON INTERVIEW - SERVER - LITE	2	\$1,173.60	\$0.00	\$1,173.60
Year 5	50298	AXON INTERVIEW - CAMERA - OVERT DOME	4	\$788.00	\$0.00	\$788.00
Year 5	50322	AXON INTERVIEW - TOUCH PANEL PRO	4	\$2,025.60	\$0.00	\$2,025.60
Year 5	74056	AXON INTERVIEW - TOUCH PANEL WALL MOUNT	4	\$51.20	\$0.00	\$51.20
Year 5	74116	AXON INTERVIEW - ENCLOSURE - FLUSH MOUNT	4	\$88.00	\$0.00	\$88.00
Year 5	85170	AXON INTERVIEW - INSTALLATION - STANDARD (PER ROOM)	4	\$4,000.00	\$0.00	\$4,000.00
Total				\$24,741.20	\$0.00	\$24,741.20

Tax is estimated based on rates applicable at date of quote and subject to change at time of invoicing. If a tax exemption certificate should be applied, please submit prior to invoicing.

Contract Sourcwell #101223-AXN is incorporated by reference into the terms and conditions of this Agreement. In the event of conflict the terms of Axon's Master Services and Purchasing Agreement shall govern.

Standard Terms and Conditions

Axon Enterprise Inc. Sales Terms and Conditions

Axon Master Services and Purchasing Agreement:

This Quote is limited to and conditional upon your acceptance of the provisions set forth herein and Axon's Master Services and Purchasing Agreement (posted at <https://www.axon.com/sales-terms-and-conditions>), as well as the attached Statement of Work (SOW) for Axon Fleet and/or Axon Interview Room purchase, if applicable. In the event you and Axon have entered into a prior agreement to govern all future purchases, that agreement shall govern to the extent it includes the products and services being purchased and does not conflict with the Axon Customer Experience Improvement Program Appendix as described below.

ACEIP:

The Axon Customer Experience Improvement Program Appendix, which includes the sharing of de-identified segments of Agency Content with Axon to develop new products and improve your product experience (posted at www.axon.com/legal/sales-terms-and-conditions), is incorporated herein by reference. By signing below, you agree to the terms of the Axon Customer Experience Improvement Program.

Acceptance of Terms:

Any purchase order issued in response to this Quote is subject solely to the above referenced terms and conditions. By signing below, you represent that you are lawfully able to enter into contracts. If you are signing on behalf of an entity (including but not limited to the company, municipality, or government agency for whom you work), you represent to Axon that you have legal authority to bind that entity. If you do not have this authority, please do not sign this Quote.

Signature

Date Signed

1/13/2025



TO: Mayor Mackin
President Fuller
Members of City Council

FROM: Timothy W. Effler, Law Director

RE: Resolution 9-2025

DATE: January 24, 2025



Subject Matter/Background

Resolution 9-2025 authorizes the donation of certain fire gear to the Safety Council of Northwest Ohio. This gear is no longer being used by the Perrysburg Fire Division and is no longer needed. The value of the donated property is under \$1,000.00.

Financial Review

There is no financial impact on the City.

Recommendation

If City Council is in agreement, a motion to suspend the three readings, waive the rules, and authorize this Resolution as an Emergency is recommended.

RESOLUTION 9-2025

A RESOLUTION DECLARING CERTAIN FIRE EQUIPMENT NO LONGER NEEDED FOR PUBLIC USE OR UNFIT FOR PUBLIC SERVICE; AND DECLARING AN EMERGENCY

WHEREAS, Article III, Section III – 10.0 of the Perrysburg City Charter provides the City Council with the power to determine the method, manner, consideration and procedure for the purchase of property on behalf of the Municipality and the sale or disposal thereof; and,

WHEREAS, the city is no longer in need of twelve (12) Laerdal Baby Anne infant CPR manikins and two (2) Laerdal AED Trainers used previously by the Fire Division; and,

WHEREAS, these items will be donated to Safety Council of Northwest Ohio; and,

WHEREAS, this legislation went before the Safety Committee on January 27, 2025 and was unanimously approved for advancement to City Council.

NOW, THEREFORE, BE IT RESOLVED BY THE COUNCIL OF THE CITY OF PERRYSBURG, WOOD COUNTY, OHIO:

SECTION 1. The Council hereby authorizes the Mayor and Director of Finance to arrange for the donation of the twelve (12) Laerdal Baby Anne infant CPR manikins and two (2) Laerdal AED Trainers no longer deemed necessary for public use.

SECTION 2. It is found and determined that all formal actions of Council concerning or relating to the passage of this Resolution were adopted in an open meeting of the Council, and that all deliberations of this Council and any of its committees, that resulted in such formal actions, were in meetings open to the public in compliance with all legal requirements of the City of Perrysburg and the State of Ohio.

SECTION 3. This Resolution is hereby declared to be an emergency measure necessary for the immediate preservation of the public peace, health and safety of the citizens of the City of Perrysburg, Wood County, Ohio, and shall be in full force and effect from and immediately after its passage and approval by the Mayor.

President of Council

Mayor

PASSED _____

ATTEST: _____

APPROVED: _____

Timothy W. Effler
LAW DIRECTOR

TO: Mayor Mackin
President Fuller
Members of City Council

FROM: Timothy W. Effler, Law Director

RE: Ord 3-2025

DATE: February 4, 2025



Subject Matter/Background

City of Perrysburg, Ohio, Codified Ordinance §266.15-2 establishes “Wage Ranges for Executive Staff, Senior Administrative Staff and Administrative Staff (including hourly employees)” through the City of Perrysburg’s Codified Ordinances (“Code”) titled “Personnel Policy.” The City of Perrysburg has determined it is appropriate to update and add certain job titles in §266.15-2.

Legal Review

This legislation has been reviewed and is appropriately before you.

Recommendation

If City Council is in agreement, a motion to suspend the rules, waive the three readings and pass this legislation as an emergency is appropriate.

ORDINANCE 3-2025

AN ORDINANCE AMENDING PERRYSBURG CODIFIED ORDINANCE §266.15-2; AND DECLARING AN EMERGENCY

WHEREAS, Perrysburg Codified Ordinance §266.15-2 establishes the job titles and wage ranges for Executive Staff, Senior Administrative Staff and Administrative City employees; and,

WHEREAS, the City of Perrysburg has determined it necessary to update and add certain job titles and adjust the wage ranges set forth in §266.15-2; and,

NOW, THEREFORE, BE IT ORDAINED BY THE COUNCIL OF THE CITY OF PERRYSBURG, WOOD COUNTY, OHIO:

SECTION 1. Codified Ordinance §266.15-2 which currently read as:

266.15-2 WAGE RANGES FOR EXECUTIVE STAFF, SENIOR ADMINISTRATIVE STAFF AND ADMINISTRATIVE STAFF (including hourly employees)

Broad Band	Title
Band A	City Administrator
Minimum Salary \$104,000	
Maximum Salary \$166,400	
Band B	Assistant City Administrator
Minimum Salary \$83,200	City Engineer
Maximum Salary \$145,600	Director of Finance
	Director of Law
	Director of Public Safety
	Director of Public Service
	Director of Public Utilities
	Fire Chief
	Municipal Court Prosecutor
	Planning and Zoning Administrator
	Police Chief
Band C	Deputy Administrator of Planning and Zoning

Minimum Salary \$72,800	Deputy Director of Finance
Maximum Salary \$124,800	Deputy Director of Public Service
	Deputy Director of Public Utilities
	Deputy Fire Chief
	Deputy Police Chief
	GIS/Software Administrator
	Hardware/Network/Operations Administrator
	Human Resources Manager
	Income Tax Commissioner
	IT Manager
	Police Lieutenant
	Police Support Services Manager (Dispatch, Records)
	WWTP (Wastewater Treatment Program) Manager
Band D	Advanced Certified Paralegal
Minimum Salary \$52,000	Assistant Prosecutor
Maximum Salary \$104,000	GIS/Software Engineer
	Hardware/Operations Engineer
	OSH Coordinator
	Police Support Services Supervisor
	Staff Engineer
	Superintendent of Field Operations
	Tax Administrator
	Urban Forester
	Utilities Supervisor
	WWTP Assistant Manager
Band E	Administrative Assistant
Minimum Salary \$46,800	CAD Technician-Construction Inspector
Maximum Salary \$78,000	Construction Inspector
	Engineering Technician
	Executive Assistant
	GIS/Software Technician

	Hardware/Operations Technician
	HR Coordinator
	Legal Assistant
	Legal Assistant/Clerk of Council
	Public Information Officer
	Stormwater Program Technician
	Victim's Advocate/Administrative Assistant
	Zoning Inspector

These wage rates shall be reviewed every even year beginning in 2024.

Personnel Committee shall be notified each year of increases or reductions to employees' salaries. Personnel Committee shall be notified of salaries and fringe benefits for new employees.

is hereby amended and revised to read:

266.15-2 WAGE RANGES FOR EXECUTIVE STAFF, SENIOR ADMINISTRATIVE STAFF AND ADMINISTRATIVE STAFF (including hourly employees)

Broad Band	Title
Band A	City Administrator
Minimum Salary \$104,000	
Maximum Salary \$166,400	
Band B	Assistant City Administrator
Minimum Salary \$83,200	City Engineer
Maximum Salary \$145,600	Director of Finance
	Director of Law
	Director of Public Safety
	Director of Public Service
	Director of Public Utilities
	Fire Chief
	Municipal Court Prosecutor
	Planning and Zoning Administrator
	Police Chief

Band C	Deputy Administrator of Planning and Zoning
Minimum Salary \$72,800	Deputy Director of Finance
Maximum Salary \$124,800	Deputy Director of Public Service
	Deputy Director of Public Utilities
	Deputy Fire Chief
	Deputy Police Chief
	GIS Administrator
	IT Administrator
	GIS/Software Administrator
	Hardware/Network/Operations Administrator
	Human Resources Manager
	Income Tax Commissioner
	IT Manager
	Natural Resources Manager
	Police Lieutenant
	Police Support Services Manager (Dispatch, Records)
	WWTP (Wastewater Treatment Program) Manager
Band D	Advanced Certified Paralegal
Minimum Salary \$52,000	Assistant Prosecutor
Maximum Salary \$104,000	GIS/Software Engineer
	Hardware/Operations Engineer
	OSH Coordinator
	Police Support Services Supervisor
	Staff Engineer
	Superintendent of Field Operations
	Tax Administrator
	Urban Forester
	Utilities Supervisor
	WWTP Assistant Manager
Band E	Administrative Assistant
Minimum Salary \$46,800	CAD Technician-Construction Inspector
Maximum Salary \$78,000	Construction Inspector
	Engineering Technician

	Executive Assistant
	GIS/Software Technician
	Hardware/Operations Technician
	HR Coordinator
	Legal Assistant
	Legal Assistant/Clerk of Council
	Public Information Officer
	Stormwater Program Technician
	Victim's Advocate/Administrative Assistant
	Zoning Inspector

These wage rates shall be reviewed every even year beginning in 2024.

Personnel Committee shall be notified each year of increases or reductions to employees' salaries.

Personnel Committee shall be notified of salaries and fringe benefits for new employees.

SECTION 2. It is found and determined that all formal actions of Council concerning or relating to the passage of this Ordinance were adopted in an open meeting of the Council, and that all deliberations of this Council and any of its committees, that resulted in such formal actions, were in meetings open to the public in compliance with all legal requirements of the City of Perrysburg and the State of Ohio.

SECTION 3. This Ordinance is hereby declared to be an emergency measure necessary for the immediate preservation of the public peace, health and safety of the citizens of the City of Perrysburg, Wood County, Ohio, and shall be in full force and effect from and immediately after its passage and approval by the Mayor.

President of Council

Mayor

PASSED _____

ATTEST: _____

APPROVED: _____

Timothy W. Effler
LAW DIRECTOR

TO: Mayor Mackin
President Fuller
Members of City Council

FROM: Timothy W. Effler, Law Director

RE: Res 10-2025

DATE: February 4, 2025



Subject Matter/Background

The City of Perrysburg, completed the stormwater utility feasibility study and is ready to move forward with Phase 2 of the stormwater utility project. A Request for Qualifications (RFQ) was issued on June 14, 2023 for an firm to develop the plan for and implement the program in which (5) submittals were received, evaluated, and ranked by the City Engineer and Environmental Rate Consultants, Inc. was the top ranked firm, selected as the most qualified based upon the firm's experience and professional expertise. The total cost for Phase 2 of the program is expected to be Two Hundred Eighty-Three Thousand Nine Hundred Forty Dollars and Zero Cents (\$283,940.00).

Financial Review

Account: 5402-62955-55999

Legal Review

This legislation has been reviewed and is appropriately before you.

Recommendation

If City Council is in agreement, a motion to suspend the rules, waive the three readings and pass this legislation as an emergency is appropriate.

RESOLUTION 10-2025

A RESOLUTION AUTHORIZING AND DIRECTING THE MAYOR AND DIRECTOR OF FINANCE TO ENTER INTO AN AGREEMENT WITH ENVIRONMENTAL RATE CONSULTANTS, INC. FOR THE STORMWATER UTILITY PROGRAM IMPLEMENTATION PROJECT AT A COST NOT TO EXCEED TWO HUNDRED EIGHTY-THREE THOUSAND NINE HUNDRED FORTY DOLLARS AND ZERO CENTS (\$283,940.00); AND DECLARING AND EMERGENCY

WHEREAS, the City of Perrysburg, completed the stormwater utility feasibility study and is ready to move forward with the implementation of the stormwater utility project; and,

WHEREAS, a Request for Qualifications (RFQ) was issued on June 14, 2023 for an firm to develop the plan for and implement the program in which (5) submittals were received, evaluated, and ranked by the City Engineer and Environmental Rate Consultants, Inc. was the top ranked firm, selected as the most qualified based upon the firm's experience and professional expertise; and,

WHEREAS, the total cost for Phase 2 of the program is expected to be Two Hundred Eighty-Three Thousand Nine Hundred Forty Dollars and Zero Cents (\$283,940.00); and,

WHEREAS, at its January 22, 2025 meeting the Public Utilities Committee of Council unanimously recommended approval of the agreement; and,

NOW, THEREFORE, BE IT RESOLVED BY THE COUNCIL OF THE CITY OF PERRYSBURG, WOOD COUNTY, OHIO:

SECTION 1. The Mayor and Director of Finance are authorized to enter into an agreement with Environmental Rate Consultants, Inc. for Phase 2 of the Stormwater Utility Program, at a price not to exceed Two Hundred Eighty-Three Thousand Nine Hundred Forty Dollars and Zero Cents (\$283,940.00).

SECTION 2. It is found and determined that all formal actions of Council concerning or relating to the passage of this Resolution were adopted in an open meeting of the Council, and that all deliberations of this Council and any of its committees, that resulted in such formal actions, were in meetings open to the public in compliance with all legal requirements of the City of Perrysburg and the State of

Ohio.

SECTION 3. This Resolution is hereby declared to be an emergency measure necessary for the immediate preservation of the public peace, health and safety of the citizens of the City of Perrysburg, Wood County, Ohio, to permit the City to take the necessary steps to engage Environmental Rate Consultants, Inc. in a timely manner to ensure pricing and availability, and shall be in full force and effect from and immediately after its passage and approval by the Mayor.

President of Council

Mayor

PASSED: _____

ATTEST: _____

APPROVED: _____

Timothy W. Effler
LAW DIRECTOR



Environmental Rate Consultants, Inc.

www.ercerc.com

2113 Greenbriar Place Phone (859) 384-7283
Union, Kentucky 41091 Fax (859) 384-7284

November 12, 2024

Mr. A.J. Coleman, P.E.
Deputy Director of Public Utilities
City of Perrysburg
127 W Fifth Street
201 W Indiana Ave
Perrysburg, Ohio 43551
[AJ Coleman <ajcoleman@ci.perrysburg.oh.us>](mailto:ajcoleman@ci.perrysburg.oh.us)

RE: PHASE 2 STORMWATER UTILITY PROGRAM IMPLEMENTATION PROJECT AND FEE

Pursuant to your request, ERC has developed this scope of work that contains the minimum tasks necessary to develop and implement a successful legally defensible stormwater utility program. The result of this project will provide the necessary stormwater management dedicated funding that will allow City Officials to continue to address the water quality regulation requirements and to more aggressively address the stormwater flooding and drainage problems throughout the city. The tasks to successfully accomplish the stormwater utility program implementation are as follows.

ERC Team recommends the following tasks:

- ◆ Hold 16 Technical Advisory Committee (TAC) meetings to develop program draft recommendations. (ERC via Microsoft Teams Meetings to save money).
- ◆ Continue to develop a five-year stormwater utility program business plan.
- ◆ Develop the remaining billing policies that establish the basis for the billing file.
- ◆ Develop a required minimum five-year cost of service analysis.
- ◆ Perform a five-year rate study analysis.
- ◆ Perform and measure all non-residential impervious area measurements.
- ◆ Develop stormwater program ordinance and rate resolution language for legal staff approval.
- ◆ Develop a stormwater billing and collection database to be uploaded to the existing water and sewer billing system for billing stormwater fees.
- ◆ Develop a stormwater credits program.
- ◆ Create and Hold 3 SWAC meetings.
- ◆ Perform stormwater GIS and database reconciliation (before initial bills are mailed).

-
- ◆ Roll out public education program.
 - ◆ Development of customer appeals process.
 - ◆ Develop GIS updating procedures in a manual.
 - ◆ Develop a PUC PowerPoint™ presentation providing an update and status at the midpoint of the 18-month project schedule.
 - ◆ Assist staff with developing a PUC PowerPoint™ presentation or an open house meeting presenting the results of the overall project.
 - ◆ Develop a PowerPoint™ presentation for City Council presenting the results of the overall project.
 - ◆ Prepare an Executive Summary final report.

Task 1.1 – Request and Collect Data Necessary for the Project / Hold TAC (Technical Advisory Committee) Meetings

ERC will request and collect the appropriate data to perform the stormwater utility program implementation project.

Specific subtasks include:

1.1a - Initial Data Collection Questionnaire - A data collection questionnaire will be developed and emailed to appropriate City staff. The questionnaire will assist both ERC and City Staff in organizing the data required for the stormwater utility program implementation project.

1.1b - Data necessary for the project - Receive and review a copy of the City Utility billing file that should include at a minimum, the following data fields of information:

- 1) Customer billing account number.
- 2) Property service address.
- 3) Customer name.
- 4) Customer mailing address.
- 5) Active or inactive status.
- 6) Renter or owner code (if available).
- 7) Services provided code (water, water only, water and sewer, etc.)
- 8) Owner name and mailing address (if stored online).
- 9) Water meter size.

1.1c - Receive and review a copy of the GIS Parcel geodatabase or shapefile, The GIS address point geodatabase or shapefile, and any other layers that may be used in the future to determine or develop the impervious area measurement for a property or parcel. Access to the most current version of the county digital aerial photography.

Task Product(s):

- ERC will develop a data request policy paper outlining the data and information necessary to accomplish the stormwater utility implementation project.

Task Assumption(s):

- The City will supply all data and files at no cost to ERC as requested.

1.2 - Prepare and Hold 16 TAC Meetings – ERC will prepare and distribute meeting agendas, meeting minutes, and appropriate documents for 16 on-site or Microsoft Teams Technical Advisory Committee meetings.

Task Product(s):

- ERC will prepare and distribute (through e-mail) TAC meeting agendas and TAC meeting minutes.

Task Assumption(s):

- The TAC meetings will each be scheduled for at least 2 hours to maximize the on-site time commitment by ERC.
- ERC will participate in the TAC Meetings on-site or via Microsoft Teams.

TASK 2.1 – Develop Stormwater Strategic Business Plan

Implementing a successful stormwater utility program requires developing a formal and flexible strategic Business Plan that provides guidance both now and in the future. The purpose of this task is to formulate a long-term strategic plan for a FIVE-YEAR FORECAST time period 2026 through 2030 that will be used as the basis for defining the required minimum level of service and cost of service analysis.

2.1a - Stormwater Utility Program Goal Statements - ERC will conduct and facilitate a TAC meeting with City staff to discuss and review the draft stormwater utility program business plan and the list of goal statements.

Task Product(s):

- ERC will provide the City with a stormwater utility program strategic business plan policy paper.

Task Assumption(s):

- Appropriate City staff must provide input on the stormwater business plan goal statements.

Task 3.1 – Billing System Policy Papers

ERC will develop up to 14 additional billing system policy papers during this project phase, as necessary.

3.1a - Billing Policy Paper Development - ERC will prepare and present the following billing policy papers to the TAC for review and approval:

- ◆ Public Roadways.
- ◆ Exemptions.
- ◆ Condominiums.
- ◆ Apartments.
- ◆ Strip Malls.
- ◆ Agriculture.
- ◆ Multiple Parcels.
- ◆ Rounding Protocol.
- ◆ Manufactured Homes.
- ◆ Special Situations.
- ◆ Credits program.
- ◆ New and Re-Development.
- ◆ Billing Systems Issues.
- ◆ Stormwater Advisory Committee (SWAC) Duties and Responsibilities.

Task 4.1 – Program/Rate Ordinances

The purpose of this task is to provide technical assistance to the City of Perrysburg legal staff regarding the development of a new stormwater utility program ordinance and separate rate ordinance.

4.1a - Program Ordinance Development. ERC will provide technical assistance to city legal staff in creating a new stormwater utility ordinance.

4.1b - Program Rate Resolution Development. ERC will provide technical assistance to city legal staff in creating a new stormwater utility rate resolution:

Task 5.1 – Required Minimum and Cash Flow Levels of Services/Cost of Services Analyses

ERC will assist the city in developing a comprehensive required minimum level of service and cost of service analysis consistent with the program mission statement and/or goal statements from the business plan.

Task 6.1 – Rate Study Analysis

ERC will evaluate revenue levels and project revenue requirements for the five-year period 2026 through 2030. The purpose of this task is to develop and project utility revenue requirements including all cost of service flooding and drainage, water quality regulatory, and capital requirements and growth and expense estimations.

Task 7.1 – Cash Flow Study Analysis

ERC will develop a five-year cash flow analysis for the time period 2026 through 2030 based on the required minimum level of service analysis and rate study analysis that will be incorporated in a user-friendly computer model (Microsoft Excel™ format).

Task 8.1 - Impervious Areas For All Non-Residential Properties

8.1a - Measure or Calculate Impervious Areas For All Non-Residential (NON) Properties. The impervious area for all non-residential properties that currently appear on the aerial photography will be measured or calculated to determine the number of Equivalent Residential Units for all master billing accounts with the protocol identified and determined in the billing system policy papers in task 3 above.

8.1b - Merge Impervious Areas and Base Master Billing File. Upon completing the impervious area measurements or calculations, the measurement data and ERU calculation data will be merged into the Base Master Billing File.

8.1c - Water / Sewer Utility Billing Database File Update. Upon completing the merge of the impervious area and ERU calculations into the Base Master Billing File, and prior to preparing and transferring the Base Master Billing File to the city for loading and testing, the Base Master Billing File will be updated with current information. The Base Master Billing File will be updated with current information and all mismatched records from the city parcel database file will be reconciled.

Task 9.1 - Development and Implementation of Billing and Collection Procedures, For Every Parcel

9.1a - Determine and Prepare the Base Master Account File Structure. ERC will develop an account structure and assign a land use designation for every active parcel based on billing policies established by the TAC. All billing parcels will be designated as either single-family residential or non-residential. Examples of non-residential accounts are industrial, commercial, and institutional categories.

9..1b - Parcel Areas. ERC will collect GIS mapping data for all parcels located within the City service area.

9.1c - Digital Aerial Photography. The most current digital aerial photography will be supplied by the City of Perrysburg in developing charges for all non-residential properties. A system will need to be developed for identifying and capturing the impervious areas from site plans for all newly developed or redeveloped non-residential properties since the date of aerial photography.

9.1d - Other Support Data & Information. All support data required for the billing system to generate bills for each property (e.g., block, lot, etc, assuming a flat rate for residential) will be collected in this subtask.

9.1e - Receive Parcel Database from City of Perrysburg. ERC will receive an initial download and periodic updates (if available) of the entire parcel geodatabase or shapefile from Wood County for use in developing the stormwater billing file, at no cost to ERC.

9.1f - Utilize all Datasets provided by City. ERC will utilize the datasets from the feasibility study for this task.

9.1g - Merge Database Files. ERC will utilize the datasets from the feasibility study for this task and merge the datasets as applicable for this task. The data will be merged to create the Base Master Account Billing File that links the data and assigns a land use designation to each billing record (SFR – single-family residential, or NON – non-residential).

9.1h - Reconcile Database Files and Assign Stormwater Only Account Numbers. Upon creation of the Base Master Account Billing File, all unmatched records from the datasets will be reconciled to a record in the GIS parcel data. A Master-Sub (Parent-Child) relationship will be established for all records in the billing file that currently fall into a many-to-one or one-to-many relationship in terms of billing accounts or parcels in the City's Utility Billing File.

Task 10 .1 - Development of Customer Credits Program

A credit is a reduction in fee that may be offered in return for some benefit received by the stormwater utility program. Credits may be offered for such things as oversized structural stormwater controls designed to serve an area larger than the immediate project site or designed to manage a larger than specified storm event. Credits may also be offered for cash given in lieu of construction of drainage improvements that can be used to compensate for problems that exist beyond the boundaries of a site, i.e., regional stormwater controls. In each case, credits should be based upon the extent to which **a drainage improvement exceeds normal standards of design** that in turn results in a reduction in the cost of service related to that particular

property. Alternatively, a drainage improvement may provide a benefit for an area larger than the property to be credited, but again, the credit should reflect the reduction in the overall cost of service provided by the drainage improvement.

ERC will evaluate the impact of a credit system on the projected revenue potential of the stormwater utility program and develop policies and criteria for granting credits that will be legally defensible. The City needs a specific policy with defined criteria that will manage a credit policy effectively and with minimal administrative effort. This task shall conclude with a credit policy and credit application for property owners to complete.

Credits (also called reductions) are often granted to provide incentives to implement or carry out an overall community stormwater management plan or to advance some other social or environmental objective. This task involves preparing a system of credits whereby customers who provide stormwater control(s) on their property or in some way improve drainage or water quality, can apply for a credit on their stormwater fee. To accomplish this, a set of standards for stormwater controls must first be developed. These standards will provide a baseline against which customer controls can be compared. A methodology for determining the amount of credit to be given for a particular control must then be developed. Credits which result in reduced service charges have been based on:

- ◆ Location within the service area.
- ◆ Certain activities which improve the system beyond normal expectations.
- ◆ Certain on-going activities on the property which reduce impact; and
- ◆ Certain on-going activity on the property which reduces the City's cost of service.

10.1a - Prepare Credits Application Package - Credit Meeting #1. The purpose of this task is to work with city staff to develop credit program policies and review a draft credit application package and forms the business community will be required to complete in order to attain any stormwater credits.

- ◆ ERC will prepare a draft credit policy paper for meeting #1.
- ◆ Policy paper will include a list of potential BMP's (best management practices) to be included in the stormwater program credits.
- ◆ Develop a Credits Application Package
- ◆ Finalize Credits Application Package (only 1 set of comments and changes are included in the fee estimate)
- ◆ The City of Perrysburg credits program will be based on other Ohio credits programs developed by ERC including Cities in Ohio such as the City of Elyria, City of Greenville, the City of Toledo, the City of Milford, the City of Lancaster, the City of Newark, the City of Zanesville, Lorain County, Butler County, Lucas County, Gwinnett County, GA etc.

10.1b - Update Credits Application Package - Credit Meeting #2. The purpose of this task

is to take the review and comments from city staff and incorporate and provide a version 2 of the stormwater program credits program application.

Task Product(s):

- ERC will provide a draft credit program application the business community will be required to complete to receive credit and a reduction in the stormwater utility bill.

Task Assumption(s):

- ERC will develop a draft stormwater credit application to review and discuss in credits meeting 1 and update the application after incorporating staff comments from meeting 1 to finalize in credit meeting 2 for finalization.

Task 11.1 – ERC Will Assist the City in Organizing a Stormwater Advisory Committee (SWAC)

ERC will assist the City of Perrysburg in forming a Stormwater Advisory Committee (SWAC) to assist in reviewing and/or revising program decisions, policies and procedures developed by the TAC in establishing the stormwater utility program, and in gaining public support. This task includes preparation of the SWAC meeting agendas for up to three (3) meetings. The SWAC will give participants the opportunity to participate during the formation of the stormwater utility program and will assist the City by providing input from the public as well as professional, civic and special interest groups; and

The Stormwater Advisory Committee (SWAC) will be comprised of representatives from the City, local residents, businesses, schools, churches, and civic groups to provide input into the development of the City's stormwater utility program. ERC will facilitate the meetings, provide education for the committee members, and utilize other materials such as guidance documents to assist in the utility formation. Committee recommendations will be documented and incorporated into the appropriate documents.

Task Assumption(s):

- ERC will attend and facilitate 3 SWAC meetings during the public education process.
- Meeting minutes will be documented through the policy papers and PowerPoint™ presentations discussed at each meeting. If separate meeting minutes are necessary, they will be prepared by the City of Perrysburg staff.

Task Product(s):

- ERC will recommend agencies, departments, businesses and other organizations that should be represented on the Stormwater Advisory Committee. City staff will be responsible for identifying individuals to participate in the SWAC and submitting their recommendations to the Director of Public Services or to City Council. The SWAC should serve at the pleasure of the City Council.
- ERC will review and comment on meeting agendas, which will be prepared and distributed by the City staff for three (3) SWAC meetings.
- Additional SWAC meetings, business meetings or concerned citizen meetings will be at an additional cost.

Task 12.1 - Public Education Outreach Program

The purpose of the Public Education Program is to develop a process to inform, educate, and generate public support for the overall stormwater utility program. ERC has identified activities to support and promote the stormwater program. This includes working with the web master to revise and provide information for the stormwater utility program page on the City web site.

12.1a - Communications Plan. The communications plan will be developed as follows:

- Create Frequently Asked Questions for customer service and the web.
- Develop a Top 100 Letter for the City to distribute by mail.
- In-person meetings with the top 5 users (impervious areas) to review measurement information.
- Create a four-panel program brochure for distribution (City will be responsible for printing and distributing the brochure).

Task Assumption(s):

- ERC will provide technical support to City staff for this task.
 - ERC will develop the top 100 letter with other public education products developed by the City. All printing, duplication, copying, postage, printing and advertising (time and space) costs **are the responsibility of the City.**
 - A fourfold brochure will be developed specifically for the stormwater utility program by the City. All typesetting required by the printer, any duplication, copying, postage, printing and advertisement (time and space) **costs are the responsibility of the City.**
 - Postage cost for mailing the brochures is not included in the fee.
 - A set of Frequently Asked Questions will be developed to be used by customer service reps and to be posted on the city website by the city with review by ERC.
 - ERC will provide technical advice via conference calls. Time and materials for reprogramming the City website are not included in this task and is outside the scope of work for this project.
-

Task Product(s):

- A fourfold brochure will be developed.
- A set of Frequently Asked Questions.
- ERC will develop the top 100 letter.

Task 13.1 – Perform GIS and Billing Database Reconciliation.

ERC will review impervious areas inquiries, make measurement adjustments and billing database changes prior to the first billing under the ERU stormwater billing method.

Task Assumption(s):

- All billing accounts requiring an impervious area measurement change will be forwarded to ERC.

Task 14.1 – Develop Customer Appeals Process.

ERC will provide guidelines for a "proper" appeals process for any customer that chooses to challenge his or her billed amount. Challenges are restricted to essentially the master account file development and error and reconciliation processes. Moreover, it would be a goal of ERC to incorporate the appeals process into the stormwater program ordinance and resolution, that residential rate challenges will NOT be accepted.

14.1a Customer Appeals Policies and Procedures. A customer appeals policies and procedures manual will be developed as part of this task. The policies and procedures manual will include any necessary forms needed for a customer to initiate an appeal, or to request additional information regarding the calculation of their stormwater bill. It will be assumed that experienced City staff in the billing process will provide input for this task. Additional hours may be required if non-experienced staff are assigned to this task.

Task Product(s):

- ERC will prepare a Customer Appeals Policies and Procedures manual including any forms that will be necessary for a customer to initiate an appeal, or to request additional information regarding the calculation of their stormwater bill.

Task Assumption(s):

- City staff with billing experience will assist ERC in developing the stormwater customer appeals policies and procedures manual.

Task 15.1 - Database Maintenance and GIS Updating Procedures Manual.

15.1a - Database Maintenance and GIS Updating Procedures Manual. ERC will develop and provide a database maintenance and GIS updating procedures manual that outlines the steps that will be necessary to review and revise data errors discovered through this process.

15.1b - Update and Maintain Database Information. All billing database information that has been developed during this project will require maintenance and updating for the period following development of the data until such time that the data is merged with the City Billing System, and City staff takes over the responsibility for daily updating and maintenance. Some of the activities that require daily or periodic updating and maintenance are as follows:

- New service turn on/turn off.
- Changes in service due to property transfers etc.
- New or re-development requiring property re-measurement.

Task 16.1 – One Public Utilities Committee PUC Update and Presentation

16.1a Prepare Presentation. A formal PowerPoint™ presentation will be used to provide an update and status of the stormwater utility program implementation plan at the midpoint of the overall project schedule to City Council Public Utilities Committee PUC.

Task 17.1 – One City Council Update & Presentation (or open house)

17.a Prepare Presentation. A formal PowerPoint™ presentation will be used to provide an update and status of the stormwater utility program implementation plan at the end of the project to City Council Public Utilities Committee PUC.

Task 18.1 – One FINAL City Council Update & Presentation (open house)

18.1a Prepare Presentation. A formal final PowerPoint™ presentation will be used to provide an update and status of the stormwater utility program implementation plan to the full City Council.

Task 19.1 – Executive Summary Final Report

19.1a Document and Prepare Draft Executive Summary Final Report. The purpose of this task is to prepare a draft executive summary final report to document results, findings, conclusions and recommendations to City Staff in digital PDF format only.

19. 1b - Document Prepare and Finalize Executive Summary Final Report. The purpose of this task is to incorporate all city staff comments from the draft report and prepare a final executive summary final report and submit to City Staff in digital PDF format only.

ADDITIONAL SERVICES TO BE CONSIDERED:

Task 20.1 – Perform GIS and Database Reconciliation

ERC will review impervious areas inquiries, make measurement adjustments and billing database changes for up to three months after the first billings are mailed.

Task Assumption(s):

- ♦ ERC will provide impervious area remeasurements and database verification and analysis on an hourly basis of \$75 per hour.

Task Product(s):

- ♦ Revised Impervious Area Geodatabase.
- ♦ A calculated billing adjustment amount, if necessary for each changed measurement.

Task 21.1 – Customer Service Training

ERC will provide training for the customer service representative staff using the frequently asked questions as the basis for the training.

ERC will provide customer representative staff training using the frequency asked questions as the basis for the training on an hourly basis of \$75 per hour.

The City's Responsibility:

1. Furnish ERC all existing records and reports, and other financial and billing information pertinent to the stormwater management utility rate analysis at no cost to ERC. It shall be the city's responsibility to provide the ERC with this information as requested within a reasonable time frame and in an organized manner. The ERC shall rely on this information to be complete and accurate.
2. Assistance from the city staff in providing and developing the information, statistics, etc., required for the purpose of the study.
3. The city will make its resources and data available to the ERC. These resources include, but are not limited to staff; studies; documents; policies (written and unwritten); strategies; etc. Specifically, we expect that the city will provide details of data and methodologies employed in developing the rates.
4. Provide the necessary data from the data collection questionnaire that dictates the beginning of the project schedule and initial kickoff TAC Meeting.

Project Schedule

ERC recommends an 18-month schedule from beginning to full implementation ready for bills to be mailed.

Project Fee

1. The fee below includes a travel budget for 8 trips @ \$750 per trip for a total travel budget of \$6,000
2. ERC will participate in the 16 TAC meetings in person or via Microsoft Teams.
3. ERC will attend on site 6 meetings and 2 onsite meetings as needed as follows:
 - a. 3 SWAC Meetings
 - b. 1 PUC update mid-way through the project schedule.
 - c. 1 PUC presentation at the end.
 - d. 1 City Council presentation at the end.
 - e. 2 on site meetings as needed.

Project Tasks	Task Cost
Task 1.1 - Hold Technical Advisory Committee (TAC) & Conference Calls / Data Collection	\$7,200
Task 2.1 - Develop Required Minimum Business Plan	\$4,840
Task 3.1 – Develop Billing Policy Papers	\$4,760
Task 4.1 – Provide Legal Language for Program Ordinance	\$6,840
Task 5.1 – Determine Required Minimum Cost of Service Analysis	\$9,600
Task 6.1 – Perform Rate Study Analysis	\$2,840
Task 7.1 – Perform Cash Flow Analysis	\$12,000
Task 8.1 – Digitize Non-Residential Impervious Areas	\$31,000
Task 9.1 – Develop Stormwater Billing and Collection Database For Billing	\$44,250
Task 10.1 – Develop Stormwater Credits Program	\$14,600
Task 11.1 – Create / Hold 3 SWAC Meetings	\$8,760
Task 12.1 – Roll Out Aggressive Public Education Program	\$36,000
Task 13.1 – Perform Stormwater GIS and Database Reconciliation Analysis	\$69,750
Task 14.1 – Develop Customer Appeals Process	\$4,840
Task 15.1 – Database and GIS updating procedures manual	\$3,840
Task 16.1 – One Public Utilities Committee Update & Presentation Meeting	\$4,340
Task 17.1 – One City Council Open House Presentations	\$3,360
Task 18.1 – One City Council FINAL Update & Presentation	\$3,360
Task 19.1 - Executive Summary Final Report	\$5,760
Sub-Total Labor Fee Only	\$277,940
Travel Expenses	\$6,000
Total Project Fee	\$283,940

TO: Mayor Mackin
President Fuller
Members of City Council

FROM: Timothy W. Effler, Law Director

RE: Res 11-2025

DATE: February 4, 2025



Subject Matter/Background

On July 28, 2020, the City of Perrysburg, Ohio passed Resolution 36-2020 authorizing the Mayor and Director of Finance to enter into an agreement with Proudfoot and Associates, Inc. for the provision of engineering services to prepare plans, specifications, cost estimates the bid package and approximately twenty easements for the East River Road Water Connection Project in an amount not to exceed One Hundred Forty-Four Thousand Eight Hundred Thirty-Five Dollars and Zero Cents (\$144,835.00).

Over the course of the Agreement, additional engineering services were deemed necessary, and the City updated the Agreement with Proudfoot and Associates, Inc. on October 1, 2024, through Resolution 106-2024 which authorized additional services totaling Ten Thousand Two Hundred Twenty-Four Dollars and Twelve Cents (\$10,224.12).

Now, the City has a need to update the Agreement with Proudfoot and Associates, Inc. to allow for additional services related to increasing the size of the water main from a 24-inch main to a 30-inch main, which will cost an additional Thirty-Nine Thousand One Hundred Twenty Dollars and Zero Cents (\$39,120.00).

Through this Resolution, City Council authorizes an amendment to Resolution 36-2020 authorizing the Mayor and Director of Finance to execute an Amended Agreement with Proudfoot and Associates, Inc. to allow for the completion of the additional services and additional payment not to exceed \$39,120.00.

Financial Review

Account: 5401-61814-55999

Legal Review

This legislation has been reviewed and is appropriately before you.

Recommendation

If City Council is in agreement, a motion to suspend the rules, waive the three readings and pass this Resolution as an emergency is recommended, in order to allow for timely completion of and payment for services.

RESOLUTION 11-2025

A RESOLUTION AUTHORIZING A CHANGE ORDER TO THE AGREEMENT WITH PROUDFOOT AND ASSOCIATES, INC. FOR ENGINEERING SERVICES RELATED TO THE EAST RIVER ROAD WATER CONNECTION PROJECT; AND DECLARING AN EMERGENCY

WHEREAS, on July 28, 2020, the City of Perrysburg, Ohio passed Resolution 36-2020 authorizing the Mayor and Director of Finance to enter into an agreement with Proudfoot and Associates, Inc. for the provision of engineering services to prepare plans, specifications, cost estimates the bid package and approximately twenty easements for the East River Road Water Connection Project in an amount not to exceed One Hundred Forty-Four Thousand Eight Hundred Thirty-Five Dollars and Zero Cents (\$144,835.00); and,

WHEREAS, on October 1, 2024, through Resolution 106-2024 Council authorized additional services with a total cost of Ten Thousand Two Hundred Twenty-Four Dollars and Twelve Cents (\$10,224.12); and

WHEREAS, the Department of Public Utilities has reviewed the project and deemed it necessary to request additional services related to increasing the size of the water main from a 24-inch main to a 30-inch main; and,

WHEREAS, in order to accommodate the changes, the City has a need to update the Agreement with Proudfoot and Associates, Inc. to allow for the completion and payment for said additional services, which will cost an additional Thirty-Nine Thousand One Hundred Twenty Dollars and Zero Cents (\$39,120.00); and,

WHEREAS, at its January 22, 2025 meeting the Public Utilities Committee unanimously recommended approval of the additional services.

NOW, THEREFORE, BE IT RESOLVED BY THE COUNCIL OF THE CITY OF PERRYSBURG, WOOD COUNTY, OHIO:

SECTION 1. City Council authorizes the Mayor and Director of Finance to execute an Amended Agreement with Proudfoot and Associates, Inc. to allow for the completion of the additional services and additional payment for said services, not to exceed Thirty-Nine Thousand One Hundred Twenty Dollars and Zero Cents (\$39,120.00), in accordance with the document attached hereto as Exhibit A.

SECTION 2. It is found and determined that all formal actions of Council

concerning or relating to the passage of this Resolution were adopted in an open meeting of the Council, and that all deliberations of this Council and any of its committees, that resulted in such formal actions, were in meetings open to the public in compliance with all legal requirements of the City of Perrysburg and the State of Ohio.

SECTION 3. This Resolution is hereby declared to be an emergency measure necessary for the immediate preservation of the public peace, health, and safety of the citizens of the City of Perrysburg, Wood County, Ohio, in order to allow for timely completion of and payment for services, and shall be in full force and effect from and immediately after its passage and approval by the Mayor.

President of Council

Mayor

PASSED: _____

ATTEST: _____

APPROVED: _____

Timothy W. Effler
LAW DIRECTOR

PROUDFOOT



— ASSOCIATES, INC. —
CONSULTING ENGINEERS

November 26, 2024

Mr. AJ Coleman, P.E.
Deputy Director of Public Utilities
City of Perrysburg
201 West Indiana Avenue
Perrysburg, Ohio 43551

RE: Proposal to Upsize the East River Road Waterline Connection

Dear Sir:

In response to your request, we are pleased to submit the following proposal.

A. Scope of Work

- Redesign and redraft the current plans to replace the 24" water main with a 30" water main.
- Submit prefinal plans to Perrysburg and Toledo for review and comment
- Complete final plans and cost estimate.
- Preparation of permits and bidding documents are included under the previous proposal.

B. Engineering Fee

The proposed fee for all work described in Section A shall be a lump sum fee of \$39,120.

Should you have any questions, please contact me. We appreciate the opportunity to be of service to the City of Perrysburg.

Sincerely,


Thomas H. Yurysta, P.E.

Vice President / Project Manager



TO: Mayor Mackin
President Fuller
Members of City Council

FROM: Timothy W. Effler, Law Director

RE: Resolution 12-2024

DATE: February 4, 2025



Subject Matter/Background

A Resolution authorizing the City to apply for, accept, and enter into a water supply revolving loan account (wsrla) agreement on behalf of the city for planning, design, and/or construction of improvements to community water systems apply to the Water Supply Revolving Loan Account (WSRLA) for the planning, design, and or construction of the watermain. The Ohio WSRLA requires the government agency to pass legislation for an application of a loan and the execution of an agreement as well as designating a dedicated payment source.

Financial Review

At this time there is no budgetary impact to the City.

Legal Review

This legislation has been reviewed and is appropriately before you.

Recommendation

If City Council is in agreement, a motion to suspend the three readings, waive the rules, and pass as an emergency measure.

RESOLUTION 12-2025

A RESOLUTION AUTHORIZING THE MAYOR AND DIRECTOR OF FINANCE TO APPLY FOR, ACCEPT, AND ENTER INTO A WATER SUPPLY REVOLVING LOAN ACCOUNT (WSRLA) AGREEMENT ON BEHALF OF THE CITY FOR PLANNING, DESIGN, AND/OR CONSTRUCTION OF IMPROVEMENTS TO COMMUNITY WATER SYSTEMS AND DESIGNATING A DEDICATED REPAYMENT SOURCE FOR THE LOAN; AND DECLARING AN EMERGENCY

WHEREAS, the City of Perrysburg, Ohio, seeks to replace the Front, Second and Third Street Watermains; and,

WHEREAS, the City intends to apply to the Water Supply Revolving Loan Account (WSRLA) for the planning, design, and or construction of the watermain replacements; and,

WHEREAS, The Ohio WSRLA provides financial assistance for the planning, design and construction of improvements to community water systems and non-profit non-community public water systems. The program is jointly managed by Ohio Division of Environmental and Financial Assistance (DEFA) and Ohio Environmental Protection Agency's (EPA) Division of Drinking and Ground Waters; and,

WHEREAS the Ohio WSRLA requires the government authority to pass legislation for application of a loan and the execution of an agreement as well as designating a dedicated payment source.

NOW, THEREFORE, BE IT RESOLVED BY THE COUNCIL OF THE CITY OF PERRYSBURG, OHIO:

Section 1. City Council authorizes the Mayor and Director of Finance to apply for a WSRLA loan, sign all documents for, and otherwise take all action needed to enter into an agreement with respect to the Water Supply Revolving Loan Account with the Ohio EPA and the DEFA for planning, design and/or construction of improvements to community water systems on behalf of the City of Perrysburg, Ohio.

Section 2. That the dedicated source of repayment will be revenue from City's rate payers and other customers from water rates.

Section 3. That it is found and determined that all formal actions of this Council concerning and relating to the passage of this Resolution were passed in an

open meeting of this Council, and that all deliberations of this Council and of any of its committees that resulted in such formal action, were in meetings open to the public, in compliance with all legal requirements including Section 121.22 of the Ohio Revised Code.

Section 4. This Resolution is hereby declared to be an emergency measure necessary for the immediate preservation of the public peace, health and safety of the citizens of the City of Perrysburg, Wood County, Ohio, and shall be in full force and effect from and immediately after its passage and approval by the Mayo..

President of Council

Mayor

PASSED _____

ATTEST: _____

APPROVED: _____

Timothy W. Effler
LAW DIRECTOR

TO: Mayor Mackin
President Fuller
Members of City Council

FROM: Timothy W. Effler, Law Director

RE: Resolution 13-2025

DATE: February 4, 2025



Subject Matter/Background

On December 7, 2021, the City of Perrysburg, Ohio passed Resolution 68-2021 authorizing the Mayor and Director of Finance to enter into an agreement with GPD Group to improve Fort Meigs Road Ditch and add a walking path along the side.

The previous breakdown of the estimated construction cost was Two Hundred Seventy-One Thousand Two Hundred Eleven Dollars and Zero Cents (\$271,211.00). Due to additional engineering, survey, and environmental services that are necessary for the completion of the project, the Service Committee would like to amend Resolution 68-2021 to add an additional Thirty Thousand Three Hundred Eighty-Six Dollars and Zero Cents (\$30,386.00) to the not to exceed limit.

This Resolution authorizes the Mayor and Director of Finance to enter into an amended Agreement with GPD Group in an amount not to exceed Three Hundred One Thousand Five Hundred Ninety-Seven Dollars and Zero Cents (\$301,597.00).

Financial Review

Account: 4403-11755-55999 and 5402-61826-55999 (50/50 split)

Legal Review

This legislation has been reviewed and is appropriately before you.

Recommendation

If City Council is in agreement, a motion to suspend the rules, waive the three readings and pass this legislation as an emergency is appropriate.

RESOLUTION 13-2025

**A RESOLUTION AMENDING RESOLUTION 68-2021 AND
AUTHORIZING AN AMENDMENT TO THE AGREEMENT WITH
GPD GROUP FOR THE PROVISION OF ENGINEERING, SURVEY,
AND ENVIRONMENTAL SERVICES, FOR A TOTAL AMOUNT NOT
TO EXCEED THREE HUNDRED ONE THOUSAND FIVE
HUNDRED NINETY-SEVEN DOLLARS AND ZERO CENTS
(\$301,597.00); AND DECLARING AN EMERGENCY**

WHEREAS, through Resolution 68-2021, the City of Perrysburg is authorized improvements to Fort Meigs Road Ditch and the addition of a walking path along the side; and,

WHEREAS, GPD Group was determined to be the best qualified firm to provide the services and, upon request, has provided a price proposal for the service; and,

WHEREAS, the original Agreement with GPD Group for engineering, survey, and environmental services for the Fort Meigs Road ditch project was in an amount not to exceed Two Hundred Seventy-One Thousand Two Hundred Eleven Dollars (\$271,211.00); and,

WHEREAS, additional engineering, survey, and environmental services are necessary for the completion of the project; and,

WHEREAS, these additional services will increase the contract amount from Two Hundred Seventy-One Thousand Two Hundred Eleven Dollars and Zero Cents (\$271,211.00) to Three Hundred One Thousand Five Hundred Ninety-Seven Dollars and Zero Cents (\$301,597.00), an increase of Thirty Thousand Three Hundred Eighty-Six Dollars and Zero Cents (\$30,386.00); and,

WHEREAS, the Service Committee would like to amend Resolution 68-2021 to add an additional Thirty Thousand Three Hundred Eighty-Six Dollars and Zero Cents (\$30,386.00) to the not to exceed limit.

**NOW, THEREFORE, BE IT RESOLVED BY THE COUNCIL OF THE CITY
OF PERRYSBURG, WOOD COUNTY, OHIO:**

SECTION 1. The Council hereby authorizes the Mayor and Director of Finance to enter into an amended Agreement with GPD Group for engineering, survey, and environmental services for the Fort Meigs Road ditch project, in an amount not to exceed Three Hundred One Thousand Five Hundred Ninety-Seven Dollars and Zero

Cents (\$301,597.00), attached hereto and incorporated herein as Exhibit A.

SECTION 2. It is found and determined that all formal actions of Council concerning or relating to the passage of this Resolution were adopted in an open meeting of the Council, and that all deliberations of this Council and any of its committees, that resulted in such formal actions, were in meetings open to the public in compliance with all legal requirements of the City of Perrysburg and the State of Ohio.

SECTION 3. This Resolution is hereby declared to be an emergency measure necessary for the immediate preservation of the public peace, health and safety of the citizens of the City of Perrysburg, Wood County, Ohio, in order to permit the City to meet the necessary timelines to complete the project in a timely manner, and shall be in full force and effect from and immediately after its passage and approval by the Mayor.

President of Council

Mayor

PASSED: _____

ATTEST: _____

APPROVED: _____

Timothy W. Effler
LAW DIRECTOR



October 27, 2023
202209.01

Brian Thomas, PE, PS, CPESC, CFM
City Engineer
City of Perrysburg
127 West Fifth Street
Perrysburg, OH 43551

Fort Meigs Road Multi-Use Sidepath Contract Modification Request #1

Dear Mr. Thomas,

GPD Group (GPD) respectfully submits this contract modification request for the subject project. This request is for engineering services associated with Alternatives Analysis (ALT1: Open ditch with retaining walls option presented at Stage 1; ALT2: Enclosed ditch option utilizing storm sewer). It also includes engineering services for preparation of stream mitigation plans.

Our proposal includes the following:

- Project task list/narrative for additional tasks
- Fee spreadsheet summarizing estimated labor hours and costs for the additional services.

We propose to provide additional services included herein for an amount not to exceed **\$32,386**.

With the addition of this contract modification, the revised project total amount not to exceed is **\$301,597**. This includes an amount not to exceed \$280,901 for base services and an additional \$20,696 for "If Authorized" tasks if requested by the City of Perrysburg.

Should you have any questions or require additional information regarding this contract modification request, please contact me at 614.588.8960 or lolham@gpdgroup.com to discuss.

Sincerely,

GPD Group

A handwritten signature in dark ink that reads "Lance Oldham".

Lance M. Oldham, PE
Project Manager

Attach.

C-R-S	Fort Meigs Road Multi-Use Sidewalk	Consultant	City of Perrysburg	If-Authorized	
Consultant:	GPD Group				
Agreement No.	0				
Modification No.	1				
PID No.	0				
Proposal Date	10/27/2023				
Task Description					Narrative
3 - Environmental Engineering Phase					
3.2 - Stage 1 Alternatives Analysis					
3.2.A - Alternatives Analysis		X		Analysis of open ditch with retaining wall option vs enclosed sewer option. Includes cost estimates; meetings/coordination with City, environmenal subconsultant, and USACE to determine mitigation associated with each alternative; and field work to identify the stream Ordinary High Water Mark.	
4 - Final Engineering and R/W Phase					
4.2 - Stage 3 Detailed Design Plans					
4.2.A - Mitigation Plans					
4.2.A.L - Mitigation Plan and Details		X		20 scale stream mitigation plans from Sta. 10+50 to Sta. 43+00. 4 sheets. Layout of trees, shrubs, perennials, and live stakes. All plant material will be native. Seed beyond lawn area wiwll be selected for erosion control and to handle inundation. Planting details will be provided. Mitigation cost estimate will be prepared. Includes final plan updates based on Stage 3 comments.	
4.2.A.M - Mitigation Subsummary		X		Mitigation subsummary to be prepared and carried to general summary.	
4.2.A.P - General Notes		X		Planting notes.	
4.5 - Project Management for Final Engineering and Right of Way					
4.5.B - General Oversight		X			

TERMS AND CONDITIONS

Glaus, Pyle, Schomer, Burns and DeHaven, Inc. dba GPD Group ("GPD") shall perform the services outlined in the proposal attached to this agreement, or any other performance rendered by GPD, (collectively referred to as the "Work") in accordance with the following Terms and Conditions for the party identified as Client ("Client") in the corresponding proposal (collectively the "Agreement"):

Information and Access. When applicable, Client shall make available any and all plans, drawings, or other documentation, which relate to the Work in addition to any other information which one should consider as it relates to the Work. Client shall provide additional information upon GPD request. In the event that new, modified or changed information becomes available Client shall inform GPD of such immediately. Client shall insure access to the property or site(s) is available to GPD at agreed upon times, and Client shall make available representatives who will be the most knowledgeable concerning the Work which GPD shall perform. Client acknowledges that GPD shall regard all Client information as reliable and accurate, and hereby warrants such. Client agrees that GPD may assume that all plans, designs, structures and specifications related to the Work have been properly designed in accordance with the highest standard of care and are adequate for all purposes other than specifically addressed by the Work. GPD shall not be responsible for existing, hidden or unknown conditions and shall have no responsibility for the discovery, presence, handling, removal, disposal of hazardous materials of any form.

Billing and Payment. GPD, at its option, will submit invoices for services and reimbursable expenses on a monthly basis, unless otherwise agreed upon. Client shall pay invoices in full within 30 days after the invoice date. Any invoice or part thereof which has not been paid within 60 days shall accrue interest at 1.5% per month (equivalent to 18% per annum) until paid in full. GPD shall have the right to suspend the Work, terminate the Agreement and retain and/or retrieve all work product until such invoices have been paid in full. The Client agrees to pay all costs of collection for unpaid fees, including but not limited to attorney costs.

Timeliness of Performance. GPD will endeavor to perform the Work with reasonable diligence and expediency consistent with the applicable standard of care. GPD shall not be responsible for, and will not be held liable for, damages arising directly or indirectly from any delays for causes outside of GPD control, including the actions or inactions of Client, other subcontractors or consultants, and third parties. If delays resulting from any such causes increase the cost and/or time required by GPD to perform the Work, GPD shall be entitled to an equitable adjustment in schedule and/or compensation.

Standard of Care. GPD's services shall be performed in a manner consistent with the care and skill ordinarily used by members of the same profession practicing under similar circumstances at the same time in the same location.

Indemnification. GPD and Client mutually agree, to the fullest extent permitted by law, to indemnify and hold each other (which collectively includes officers, directors and employees) harmless from any and all damages, liabilities, claims, expenses or costs (including reasonable attorney's fees, expert-witness fees and defense costs) to the extent caused by its own negligent acts, professional errors, or omissions arising out of the Work or the performance of this Agreement. Neither party shall be obligated to indemnify and hold the other harmless in any manner whatsoever for the negligence of another.

Risk Allocation. In recognition of the relative risks and rewards of the Work to Client and GPD, the risks have been allocated such that Client agrees, to limit the liability of GPD to Client, and any party claiming through Client through contract or otherwise, to a maximum aggregate total of five times the GPD fee, which under no circumstances shall exceed fifty thousand dollars (\$50,000.00). This limitation shall apply to any and all liability or cause of action, including but not limited to negligence, professional errors or omissions, strict liability, breach of contract or warranty. In addition to the foregoing, and to the fullest extent permitted by law, GPD, their respective officers, directors, partners, employees, contractors or subconsultants shall not be liable to Client for any claim for incidental, indirect, or consequential damages arising out of or connected in any way to the Work or to this Agreement.

Termination of Services. Either party may terminate this Agreement upon 10 days written notice should the other fail to perform its obligations hereunder. In the event of such termination, Client shall pay GPD for all services rendered to the date of termination, all reimbursable expenses and reasonable termination expenses.

Ownership of Work Product. All Work, instruments of service, reports, drawings, specifications, electronic files, field data, notes and all other preparations by GPD shall remain the property of GPD, hereafter referred to as "Work Product". GPD shall retain all common law, statutory, and other reserved rights, including the copyright thereto in the Work Product. Client shall have a nonexclusive license in the Work Product that may not be used for any other purpose or project other than for which it was created without the written consent of GPD. Client reuse in violation of this section, or any changes or modifications to the Work Product not performed by GPD shall be considered an "Unauthorized Use." Client shall waive any and all claims related to Unauthorized Use and agrees to indemnify, defend, and hold GPD harmless from any and all claims, demands, expenses, including attorney's costs which may arise from such Unauthorized Use. The rights granted to Client in this section shall transfer upon payment and to the extent paid.

Confidentiality. Unless required by law or court order, GPD and Client shall not disclose the terms of this Agreement or substance of the Work and shall treat such as confidential. This section shall not apply to any information after it is generally available to the public other than as a result of disclosure by GPD or Client, which is generally available to the public on the date of this Agreement or which was lawfully received from a third party without a restriction on disclosure.

Dispute Resolution. With the exception of GPD claims related to billing and payment matters, which shall be at GPD's sole discretion, any claim or dispute between GPD and Client shall be submitted to non-binding mediation prior to the institution of arbitration proceedings, and shall be brought in a proper venue in Summit County, Ohio. This Agreement and the Work shall be governed by the laws of the State of Ohio. To the extent allowed by applicable law, no action or claim whether in tort, contract, or otherwise shall be brought against GPD more than one (1) year after the completion of the applicable portion of Work as delineated in the attached proposal.

Entire Agreement. These terms and conditions and the attached GPD proposal describe the entire agreement between GPD and Client. Both parties mutually agree that all other terms and conditions are hereby rejected. No amendments to these terms and conditions shall be effective unless acknowledged by written signature. Client's acceptance to these terms and conditions, whether acknowledged by signature or not, is a condition precedent to GPD's commencement of the Work.

No Third Party Beneficiary. This Agreement is made for the benefit of GPD and Client and is not intended to benefit any third party or be enforceable by any third party. The rights of the GPD and Client to terminate, rescind, or agree to any amendment, waiver, variation or settlement shall not be subject to the consent of a third party.

Assignment. Client shall not assign this Agreement without the consent of GPD. GPD shall be permitted to assign rights and obligations in this Agreement as it sees fit.

Severability. If any term, covenant, condition or provisions of this Agreement is found by a court of competent jurisdiction to be invalid, void, or unenforceable, the remainder of the provisions hereof shall remain in full force and effect, and shall in no way be affected, impaired or invalidated thereby.

The individual signing below hereby represents and warrants that s/he is duly authorized to execute and deliver this Agreement on behalf of the firm represented as Client herein and shall bind such parties in a corporate capacity. Signature represents authorization and acceptance of the terms and conditions.

SIGNATURE

Client: _____
Name of Firm

Printed Name

Signature

Title

Date

TO: Mayor Mackin
President Fuller
Members of City Council

FROM: Timothy W. Effler, Law Director

RE: Res 14-2025

DATE: February 4, 2025



Subject Matter/Background

The Department of Public Service is requesting the purchase of a Labrie Automizer Helping Hand Refuse Truck for refuse/recycle collection. It is suggested that these trucks are replaced every 8 years and this truck will replace a 13 year old truck currently in use.

The truck is under Sourcewell Contract #110223-LEG, at a cost of \$377,650.00.

Through this Resolution, the Mayor and Director of Finance are authorized to enter into a purchase agreement with Best Equipment for a Labrie Automizer Helping Hand Refuse Truck at a cost not to exceed Three Hundred Seventy-Seven Thousand Six Hundred Fifty Dollars and Zero Cents (\$377,650.00).

Financial Review

Account: 2231-31338-55600

Legal Review

These resolutions have been reviewed and are appropriately before you.

Recommendation

If City Council is in agreement, a motion to suspend the three readings, waive the rules, and authorize these Resolutions as Emergencies is appropriate. An Emergency is recommended to ensure the timely purchase and availability of the equipment.

RESOLUTION 14-2025

**A RESOLUTION AUTHORIZING A PURCHASE AGREEMENT
WITH BEST EQUIPMENT CO. FOR THE PURCHASE OF A LABRIE
AUTOMIZER HELPING HAND REFUSE TRUCK FOR THE
DEPARTMENT OF PUBLIC SERVICE IN AN AMOUNT NOT TO
EXCEED THREE HUNDRED SEVENTY-SEVEN THOUSAND SIX
HUNDRED FIFTY DOLLARS AND ZERO CENTS (\$377,650.00);
AND DECLARING AN EMERGENCY**

WHEREAS, the Department of Public Service is in need of a new automated refuse/recycle collection truck to replace a 13 year-old truck; and,

WHEREAS, the City is a member of Sourcewell, a national cooperative group for purchasing contracts; and,

WHEREAS, Sourcewell offers a cooperative purchasing relationship consistent with Ohio law, including O.R.C. § 9.48; and,

WHEREAS, under the Sourcewell Contract , the quote for a Labrie Automizer Helping Hand Refuse Truck is Three Hundred Seventy-Seven Thousand Six Hundred Fifty Dollars and Zero Cents (\$377,650.00); and,

WHEREAS, this purchase is in the 2025 budget; and,

WHEREAS, the Public Service Committee of City Council considered this request at their January 22, 2025 meeting and unanimously recommended this legislation be forwarded to City Council.

**NOW, THEREFORE, BE IT RESOLVED BY THE COUNCIL OF THE CITY
OF PERRYSBURG, WOOD COUNTY, OHIO:**

SECTION 1. The Mayor and Director of Finance are authorized to enter into a purchase agreement with Best Equipment for a Labrie Automizer Helping Hand Refuse Truck at a cost not to exceed Three Hundred Seventy-Seven Thousand Six Hundred Fifty Dollars and Zero Cents (\$377,650.00), in accordance with the proposal attached hereto as Exhibit A.

SECTION 2. It is found and determined that all formal actions of Council concerning or relating to the passage of this Resolution were adopted in an open meeting of the Council, and that all deliberations of this Council and any of its committees, that resulted in such formal actions, were in meetings open to the public in compliance with all legal requirements of the City of Perrysburg and the State of Ohio.

SECTION 3. This Resolution is hereby declared to be an emergency measure necessary for the immediate preservation of the public peace, health and safety of the citizens of the City of Perrysburg, Wood County, Ohio, to ensure timely purchase and delivery, and shall be in full force and effect from and immediately after its passage and approval by the Mayor.

President of Council

Mayor

PASSED _____

ATTEST: _____

APPROVED: _____

Timothy W. Effler
LAW DIRECTOR



Seller

Labrie Environmental Group
175-B Rte Marie Victorin
Lévis, Québec
Canada
G7A 2T3

Phone : 418-831-8250
Toll-Free : 1-800-463-6638
Website : www.labriegrup.com

QUOTE FORM

Quote # / Rev. #	Reference #	Quoted Date
5980 / 0		2024-10-03
Price List / Currency	Last Revision Date	Quote Valid Until
2025-A / USD	2024-10-03	2024-12-17
Regional Sales Manager	Customer Service Rep.	Product Specialist
Andrew LeVasseur	Bailey Cotterman	Francois Leblond
Opportunity Type	Carrier	Departure Region
SW End Client	To Be Determined	Quebec, QC, CA

SOLD TO	SHIP TO	END CLIENT
Best Equipment Company Inc. 5550 Poindexter Dr Indianapolis, IN 46235-9041 United States Email : Phone : 317-823-3050	Best Equipment Company Inc. 5550 Poindexter Dr Indianapolis, IN 46235-9041 United States Email : Phone :	City of Perrysburg 205 E Boundary St Perrysburg, OH 43551 United States Email : Phone : 419-872-8020

CHASSIS INFORMATION

Chassis Provided By : Supplied by Customer	Engine Make : Cummins
Chassis Manufacturer : Freightliner	Engine Model : L9
Chassis Model : M2 106 Plus	Engine Power : 360 HP
Cab Style : Conventional Cab	Engine Torque : 1150 LB-FT @ 1200 RPM
Drivetrain : 6X4	Transmission Make : Allison
Auxiliary Axle : Without Auxiliary Axle	Transmission Model : RDS 3000 Series WTEC 4 & 5
CNG System Upon Arrival : Without	Transmission Type : Automatic Transmission
Driving Configuration at Delivery : Sit-Down from Company on Streetside + Sit-Down from Labrie on Curbside	
Chassis Delivery Address : Canada: 175-B Rte. Marie-Victorin, Lévis, QC, Canada G7A 2T3	

COLOR INFORMATION

Cab Color : White from Factory	Cab Color Code : L0006
Body Color : White	Body Color Code : N0006
Chassis Color : Black from Factory	Chassis Color Code : Color Code NOT Required
Paint Scheme Number : Without	Match Cab : Yes

CARTS INFORMATION

Cart Make : Without or NOT Required	Cart Type : Without or NOT Required
Cart Capacity : 32 to 95 US Gallons (120 to 360 Litres)	

BODY CONFIGURATION

Body Model : AUTOMIZER TTD	Total Capacity : 33yd³ (27+6)
Arm Model : Single Helping-Hand (Curb)	Body Capacity : 27yd³
Body Type : Standard	Tailgate Capacity : 6yd³
Body Division : Without Division	

BASE PRICE 177,060.00\$

OPTIONS

#	Category	Option Description	Price
2	Lifting	AGRB-0000 Gripper with Bolted Rubber Blocks ILO Straps	860.00 \$
3	Lifting	AGRA-STD03 Helping-Hand, Basic Arm, "32 to 95 US gal"	0.00 \$
4	Lifting	EAOA-STD01 Arm out alarm at 6 km/h - 4 mph	0.00 \$
5	Lifting	ALRE-STD01 Arm Long Reach (10 Foot Reach)	0.00 \$
6	Lifting	AGSS-STD01 Spill shield on Gripper	0.00 \$



Seller

Labrie Environmental Group
175-B Rte Marie Victorin
Lévis, Québec
Canada
G7A 2T3

Phone : 418-831-8250
Toll-Free : 1-800-463-6638
Website : www.labriegrup.com

QUOTE FORM		
Quote # / Rev. #	Reference #	Quoted Date
5980 / 0		2024-10-03
Price List / Currency	Last Revision Date	Quote Valid Until
2025-A / USD	2024-10-03	2024-12-17
Regional Sales Manager	Customer Service Rep.	Product Specialist
Andrew LeVasseur	Bailey Cotterman	Francois Leblond
Opportunity Type	Carrier	Departure Region
SW End Client	To Be Determined	Quebec, QC, CA

#	Category	Option Description	Price
7	Hopper Area	BCPH-0000 Crusher Panel (1)	4,730.00 \$
8	Hopper Area	QUSS-0000 Crusher Panel Full Width	0.00 \$
9	Hopper Area	HAPT-STD01 RAM Type Packer Panel	0.00 \$
10	Hopper Area	BRTB-0000 Retainer Teeth Under Breaker Bar (3/8" Hardox 450)	560.00 \$

#	Category	Option Description	Price
11	Consoles & Controls	AAAC-0050 Auxiliary Arm Controls Inside Cab on Curbside	1,220.00 \$
12	Consoles & Controls	AAJC-0000 Single Arm Joystick Moveable for Dual Drive	930.00 \$
13	Consoles & Controls	APJC-0020 Crusher Panel Control on Joystick	350.00 \$
14	Consoles & Controls	ACJC-0020 Packer Control on Joystick	350.00 \$
15	Consoles & Controls	ATJC-STD01 Grabber Control on Joystick	0.00 \$

#	Category	Option Description	Price
16	Hydraulic	HPSO-0000 Automatic Pump shutoff at 50 km/h- 32 mph	370.00 \$
17	Hydraulic	HCON-STD01 JIC	0.00 \$
18	Hydraulic	HHOC-0000 Hydraulic Oil Cooler	3,980.00 \$
19	Hydraulic	HHOH-0000 Hydraulic Oil Heater in Tank (Electric 110V) - Electrical Inlet on Cab	1,430.00 \$
20	Hydraulic	HPTO-6438 PTO Chlesea 897 Continuous Drive with Enclosed Shaft Extension	4,510.00 \$
21	Hydraulic	CCPM-INC06 Dual Pump Denison T6DC Work-at-Idle (Enclosed Shaft)	0.00 \$
22	Hydraulic	CHFT-STD02 Hydraulic Tank Mounted on Chassis	0.00 \$
23	Hydraulic	EBCV-0010 Electric Over Hydraulic Body Main Valve	1,660.00 \$
24	Hydraulic	HPCR-0000 Regen Valve on Packer Cylinders	2,230.00 \$

#	Category	Option Description	Price
25	Accessories	BCOT-0002 Broom, Shovel and Hoe at standard Labrie location. Location may change depending on truck's configuration.	470.00 \$
26	Accessories	BFEX-0010 Fire Extinguisher 20 lbs (1) on Rubrail Curbside (Rear) Vertical	460.00 \$
27	Accessories	BESK-0000 Spill Kit on Rubrail Curbside (Center)	410.00 \$
28	Accessories	BBTS-STD01 Standard Tailgate Seal	0.00 \$

#	Category	Option Description	Price
29	Lighting	LLPA-0010 Add. Lights on Tg.: 2/3 Lightbar + Central Brake Light + Multifunctions Lights (4) (X Pattern)	1,290.00 \$
30	Lighting	LBLT-0005 Backup Lights on Tailgate 2/3 Centered - LED (2)	810.00 \$
31	Lighting	LWLK-0035 Work Light Package - LED (3)	1,200.00 \$
32	Lighting	WL01-0000 Hopper Streetside (1)	0.00 \$
33	Lighting	WL03-0000 Curbside Post (3)	0.00 \$
34	Lighting	WL04-0000 Rail Curbside (4)	0.00 \$
35	Lighting	LAFF-0050 Alternating Flashing Lights 4" Amber on Front of Body - LED (2)	720.00 \$
36	Lighting	LAFL-0000 Alternating Flashing Lights 4" Amber on Tailgate 2/3 - LED (2)	720.00 \$
37	Lighting	LSLA-0030 Strobe Light Beacon Style on Tg. over Upper S/T/T Lights (If Appl.) Centered - Whelen L41AP (1)	810.00 \$



Seller

Labrie Environmental Group
175-B Rte Marie Victorin
Lévis, Québec
Canada
G7A 2T3

Phone : 418-831-8250
Toll-Free : 1-800-463-6638
Website : www.labriegrup.com

QUOTE FORM		
Quote # / Rev. #	Reference #	Quoted Date
5980 / 0		2024-10-03
Price List / Currency	Last Revision Date	Quote Valid Until
2025-A / USD	2024-10-03	2024-12-17
Regional Sales Manager	Customer Service Rep.	Product Specialist
Andrew LeVasseur	Bailey Cotterman	Francois Leblond
Opportunity Type	Carrier	Departure Region
SW End Client	To Be Determined	Quebec, QC, CA

#	Category	Option	Description	Price
38	Electronic	CCCC-0104	4X Envirolink Camera(s) - 4X Standard Position(s) With Heater/Without Shutter	4,850.00 \$
39	Electronic	CL01-0000	Tailgate Center 2/3 (1) - Pointing Back	0.00 \$
40	Electronic	CL04-0000	Hopper Streetside (4) - Pointing Curbside	0.00 \$
41	Electronic	CL05-0000	Post Curbside (5) - Pointing Curbside	0.00 \$
42	Electronic	CL26-0000	Windshield (26) - Pointing Forward	0.00 \$
43	Electronic	CCCM-0103	EnviroLink 9" Color Monitor (DVR) (4 Channels)	720.00 \$
44	Electronic	CCML-INC01	On Ceiling, Centered, Near the Windshield (If Possible)	0.00 \$
45	Electronic	CCMM-STD01	Monitor Mounting Brackets for Labrie Standard Installation	0.00 \$
46	Electronic	CCPC-0000	Stainless Steel Protection Cage(s) on Camera(s)	370.00 \$
47	Electronic	AGCD-0000	Cart/Container Counting Device on Arm(s)	350.00 \$
#	Category	Option	Description	Price
48	Electrical	ELBF-6274	Self Reactivating Circuit Breakers Instead of Manual Reset	270.00 \$
49	Electrical	ESYV-STD01	12V Body Electrical System	0.00 \$
#	Category	Option	Description	Price
50	Service & Maintenance	BRSL-0000	Centralized Grease Point for Follower Panel Rollers	1,060.00 \$
51	Service & Maintenance	BPLS-0000	Ground Level Grease Points for Packer Rails (Centralized)	840.00 \$
52	Service & Maintenance	BALS-0010	Ground Level Grease Points for Tailgate (Centralized) & Hopper Door(s)	1,440.00 \$
#	Category	Option	Description	Price
53	Structure, Liners & Materials	BSFL-0010	Body floor liner 48" x 4mm (0.160") - Hardox 450	1,090.00 \$
54	Structure, Liners & Materials	BSWL-0035	Body Side Wall liners 24" x 1/8" - Hardox 450	450.00 \$
55	Structure, Liners & Materials	BHWS-0000	Hopper Floor Liner 1/4" - Hardox 450	1,320.00 \$
56	Structure, Liners & Materials	BHSL-0000	Hopper Side Wall Liners 4mm (0.160") - Hardox 450	980.00 \$
57	Structure, Liners & Materials	BTSU-0000	Tailgate Upper and Lower Light Panels Made of Stainless ilo Steel	620.00 \$
58	Structure, Liners & Materials	BTLU-6885	Tailgate 2/3 Light Panel Made of Stainless ilo Steel	580.00 \$
59	Structure, Liners & Materials	BPVU-0010	Side Closing Panels (Rear) and Valve Covers (2) Made of Stainless ilo Steel	990.00 \$
#	Category	Option	Description	Price
60	Unit Appearance	PCBP-STD01	Urethane Body Paint	0.00 \$
61	Unit Appearance	UAPP-STD01	One (1) Coat of Urethane Primer	0.00 \$
62	Unit Appearance	PCCP-STD01	Paint Chassis Components same Color as Chassis	0.00 \$
63	Unit Appearance	PSSS-0010	CAUTION VEHICLE STOPS [...] FREQUENTLY, 74-1/2" x 23-1/2" (Black on Yellow)	330.00 \$
64	Unit Appearance	BASA-STD01	Rubber Mud Guards - Rear of Rear Axle	0.00 \$
65	Unit Appearance	BASR-0000	Anti-sail Bars on Rear Mud Guards (Rear Wheels)	200.00 \$
66	Unit Appearance	BASN-STD01	Mud Guards with Labrie Logo	0.00 \$
67	Unit Appearance	BODL-STD01	Informative Decals English	0.00 \$
#	Category	Option	Description	Price
68	Chassis	CFTD-STD01	Diesel Tank from Company or CNG/Electric	0.00 \$



Seller
Labrie Environmental Group
175-B Rte Marie Victorin
Lévis, Québec
Canada
G7A 2T3



Phone : 418-831-8250
Toll-Free : 1-800-463-6638
Website : www.labriegrup.com

QUOTE FORM		
Quote # / Rev. #	Reference #	Quoted Date
5980 / 0		2024-10-03
Price List / Currency	Last Revision Date	Quote Valid Until
2025-A / USD	2024-10-03	2024-12-17
Regional Sales Manager	Customer Service Rep.	Product Specialist
Andrew LeVasseur	Bailey Cotterman	Francois Leblond
Opportunity Type	Carrier	Departure Region
SW End Client	To Be Determined	Quebec, QC, CA

#	Category	Option	Description	Price
69	Cab	CHBM-INC01	Heated Bus Type Mirrors (2)	0.00 \$
70	Cab	CSRH-0010	Sit-down Drive Curbside LABRIE	16,660.00 \$

SUBTOTAL OPTIONS :				63,190.00\$
--------------------	--	--	--	-------------

NON-STANDARD OPTIONS

--	--	--	--	--

SUBTOTAL NON-STANDARD OPTIONS :				0.00\$
---------------------------------	--	--	--	--------

COMMENTS

INCLUDED in price (By Best Equip.): * Chassis Freightliner M2-106 PLUS; NET: \$148,480.00 USD * PDI, local delivery and training; NET: \$4,500.00 USD				
---	--	--	--	--



Seller

Labrie Environmental Group
175-B Rte Marie Victorin
Lévis, Québec
Canada
G7A 2T3

Phone : 418-831-8250
Toll-Free : 1-800-463-6638
Website : www.labriegrup.com

QUOTE FORM		
Quote # / Rev. #	Reference #	Quoted Date
5980 / 0		2024-10-03
Price List / Currency	Last Revision Date	Quote Valid Until
2025-A / USD	2024-10-03	2024-12-17
Regional Sales Manager	Customer Service Rep.	Product Specialist
Andrew LeVasseur	Bailey Cotterman	Francois Leblond
Opportunity Type	Carrier	Departure Region
SW End Client	To Be Determined	Quebec, QC, CA

Expected Delivery Date :		Subtotal Base Price and Options :	240,250.00 \$
		Discount (2.00%) :	4,805.00 \$
		Subtotal Base Price and Options (Net) :	235,445.00 \$
Chassis Terms (if applicable) : Net on delivery for release of MSO. Weight Distribution: Quotes and pricing are subject to changes according to WD analysis which can alter specs. Upon receipt of PO and chassis specs, WD will be conducted and a confirmation of acceptance will be issued. Taxes : Not Included. Disclaimer : It is the quoting distributor's responsibility to verify the accuracy of this quote versus the specifications for the body and chassis. Labrie Environmental Group will not be responsible for any price differential between this quotation and what is required by the provided specifications. Interest fees on past due account of 1.5% per month (18% annual). Price list subject to change at all time due to the steel price index. Labrie Environmental Group (LEG) does not accept floorplan charges, back charges, liquidated damages or third-party claims for any reason or cause, whether expressed or implied by specifications or other form of communication, including purchase order terms and conditions unless approved in writing by CEO or CFO at time of quotation. Labrie Environmental Group (LEG) and/or seller shall not be responsible for any failure to perform, or delay in performance of, its obligations resulting from the COVID-19 pandemic or any future epidemic.		Body Miscellaneous Charge #1 :	0.00 \$
		Body Miscellaneous Charge #2 :	0.00 \$
		Body Miscellaneous Charge #3 :	0.00 \$
		Sourcewell Fee :	0.00 \$
		Material Surcharge :	0.00 \$
		Extended Warranty :	0.00 \$
		Extended Warranty Other :	0.00 \$
		Additional Trade Discount :	0.00 \$
		Inter Factory Transport :	0.00 \$
		Subtotal Body (Net) :	235,445.00 \$
		Chassis Price :	148,480.00 \$
		Subtotal Unit (Net) :	383,925.00 \$
		FET (12%) :	0.00 \$
		Change Fee #1 :	0.00 \$
		Change Fee #2 :	0.00 \$
		EV Fee :	0.00 \$
		Miscellaneous Charge #1 :	4,500.00 \$
		Miscellaneous Charge #2 :	0.00 \$
		Miscellaneous Charge #3 :	0.00 \$
		Freight Charges :	5,166.00 \$
		Total Unit (Net) :	393,591.00 \$
		Number of Units :	1
		Grand Total :	393,591.00 \$
		Currency :	USD

Labrie Representative :

Best Equipment Company Inc.

Additional
In stock
Discount
\$ 15,941.00
from Best



EQUIPMENT SALES PROPOSAL

Provided by Best Equipment Company, Inc.
Experts in Municipal and Contractor Environmental Equipment Since 1917
Proudly Serving Indiana, Ohio, Kentucky, and Michigan

Prepared Especially For
Perrysburg, OH
Greg Kuhr
Public Work Crew Leader

Prepared By
George Luce
Western Ohio Sales

Document ID

O - 24-0060
Q - 00001666

Prepared For

Perrysburg, OH

Prepared On

1/10/2025

Pricing Valid Through

14 Days

Procurement

Sourcewell, Labrie Enviroquip: #110223-LEG | Maturity
Date: 12/28/2027

Payment Terms

Invoice

FOB

Poindexter

Product	Unit Price	Quantity	Total
New Equipment Labrie Automizer Helping-Hand Freightliner M2 -106 CDL Req Per Mike Nielsen, extended the validity of this quote to 2/28/2025.	\$377,650.00	1.00	\$377,650.00
Subtotal			\$377,650.00
Grand Total			\$377,650.00

Agreement

Sign below to accept and agree to this sales proposal and all terms and conditions. Any changes to this agreement must be done so in writing. This agreement is binding. By signing, you agree that you are authorized to execute this contract.

Signature

Title

Date

Notes

New equipment includes pre-delivery inspection, delivery to customer site, and basic operational and maintenance training. Standard Manufacturer's warranty applies. Warranty Statements are available upon request.

BestCare

Need a plan to take care of your investment? BestCare is Best Equipment Company's preventative maintenance program, offering you customized plans to properly maintain and extend the life of your equipment. Email us at bestcare@bestequipmentco.com to learn more.

Terms and Conditions

Quotation

This document is for quotation purposes only. Do not pay from this quotation. An invoice will be prepared and sent for final total due.

Taxes

Applicable taxes are not included at time of quotation. Tax estimations can be provided upon request. If any tax figures are included, they are deemed reliable but not guaranteed. Exact taxes will be calculated at the time of invoice.

Payment

All payments for the Equipment are due from Buyer on the date of the invoice unless other terms are agreed to in writing between the Seller and Buyer. Contractors are COD.

Delivery

Delivery dates are estimations. Best Equipment Company, Inc. does not guarantee delivery dates. Best Equipment Company, Inc. is not financially responsible for lost time, revenue, or any other losses. Liability of the goods/equipment in this sales quote transfers to the buyer, once the equipment is unloaded /delivered to the buyer, as acknowledged by the signature of this sales quote.

COVID and Supply Chain

Due to the volatile nature of the market and ongoing supply chain constraints, prices and lead times are subject to change without notice.

Financing

If customer is seeking financing, shall be executed and in place in a timely manner. Customer delays due to seeking financing may result in termination of agreement.

TO: Mayor Mackin
President Fuller
Members of City Council

FROM: Timothy W. Effler, Law Director

RE: Ords 4-2025, 5-2025, 6-2025

DATE: January 17, 2025



Subject Matter/Background

Perrysburg Code Section §1295.07 accepts streets, signs and infrastructure of completed plats within the City. Once a developer completes a plat within the City, all infrastructure is inspected by the Department of Public Service, City Engineer, and the Department of Public Utilities to confirm that construction was completed to City specifications. Following a successful review, the City must accept the plat, including streets and infrastructure. These Ordinances identify the plats, streets, and infrastructure found in Coventry Pointe Plat 4, Canterbury Plat 4, and Summerfield Plat 5 have reached that stage.

Financial Review

There is no direct financial implication to this legislation.

Legal Review

This legislation has been reviewed and is appropriately before you.

Recommendation

If City Council is in agreement, a motion to waive the rules, waive the three readings and pass the legislation as an emergency measure is appropriate, in order to avoid any confusion regarding rights, duties, and obligations with respect to the subject infrastructure.

ORDINANCE 4-2025

ACCEPTING STREETS, ALLEYS, AND GREEN SPACE AND OTHER DEDICATED INFRASTRUCTURE PER CODIFIED ORDINANCE §1295.07 (CANTERBURY PLAT 4); AND DECLARING AN EMERGENCY

WHEREAS, Codified Ordinance §1295.07 requires that dedication of certain improvements within subdivisions be accepted by ordinance; and

WHEREAS, the streets, alleys, green spaces, and other dedicated infrastructure and improvements in a subdivision, as summarized on Exhibit A, (Canterbury Plat 4) have been completed to the satisfaction of the City of Perrysburg, Ohio, and such improvements have been offered for dedication and now should be accepted and dedicated; and

WHEREAS, the value of the property includes but is not limited to:

Sanitary	4118 linear feet	\$268,472.00
Water	2385 linear feet	\$252,600.00
Roadway	2690 linear feet	\$380,000.00
Storm	4966 linear feet	\$501,762.00

NOW THEREFORE, BE IT ORDAINED BY THE COUNCIL OF THE CITY OF PERRYSBURG, WOOD COUNTY, OHIO:

SECTION 1. In conformity with Codified Ordinance §1295.07 and all otherwise applicable law, the City of Perrysburg, Ohio, hereby accepts for dedication the streets, alleys, green spaces, and other dedicated infrastructure and improvements of the subdivisions listed on Exhibit A, (Canterbury Plat 4) which is attached hereto and incorporated as if fully restated herein.

SECTION 2. It is found and determined that all formal actions of Council concerning or relating to the passage of this Ordinance were adopted in an open meeting of the Council, and that all deliberations of this Council and any of its committees, that resulted in such formal actions, were in meetings open to the public in compliance with all legal requirements of the City of Perrysburg and the State of Ohio.

SECTION 3. This Ordinance is hereby declared to be an emergency measure necessary for the immediate preservation of the public peace, health, and safety of the citizens of the City of Perrysburg, Wood County, Ohio, in order to avoid any confusion regarding rights, duties, and obligations with respect to the subject infrastructure, and

shall be in full force and effect from and immediately after its passage and approval by the Mayor.

President of Council

Mayor

PASSED: _____

ATTEST: _____

APPROVED: _____

Timothy W. Effler
LAW DIRECTOR

PAVEMENT AND DRAINAGE IMPROVEMENTS FOR

CITY OF PERRYSBURG, WOOD COUNTY, OHIO

INDEX OF SHEETS

TITLE SHEET	1
GENERAL NOTES AND DETAILS	2-5
GENERAL NOTES AND SUMMARY	6
OUTLET STRUCTURE DETAILS	7
SITE GRADING PLAN & STREET SIGN DATA	8
SITE GRADING PLAN	9
TYPICAL SECTIONS	10
INTERSECTION DETAILS	11
PLAN AND PROFILE	12-15
CROSS SECTIONS	16-25
EPSC	26-32

BENCH MARK DATA

WOOD COUNTY BENCH MARK

WOOD CO. BENCH MARK BRASS DISC IN NORTHWEST HEADWALL
300'± WEST OF HULL PRAIRIE ROAD & ROACHTON ROAD
INTERSECTION.

ELEVATION 644.05

SITE BENCH MARK #204

SET MAG NAIL NORTH FACE OF P & T POLE AT SOUTHEAST
CORNER OF ROACHTON ROAD AND HULL PRAIRIE ROAD.

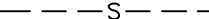
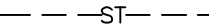
ELEVATION 644.06

SITE BENCH MARK #208

SET MAG NAIL NORTH FACE OF 13TH P & T POLE EAST OF
HULL PRAIRIE ROAD ON SOUTH SIDE OF ROACHTON ROAD.

ELEVATION 645.53

CONVENTIONAL SIGNS

	PROPOSED	EXISTING
SANITARY SEWER		
STORM SEWER		
WATERLINE		
SANITARY MANHOLE		
STORM MANHOLE		
CATCH BASIN		
YARD BASIN		
WATER VALVE IN MANHOLE		
HYDRANT		
CENTERLINE		
TYPE A MONUMENT		
TYPE B MONUMENT		
IRON PIPE		



KEY MAP
SCALE: 1"=400'



RECORD CONSTRUCTION 8/19/24

STORM WATER FACILITIES WHICH ARE NOT LOCATED IN EASEMENTS OR THE PUBLIC RIGHT-OF-WAY SHALL BE PRIVATELY OWNED AND MAINTAINED. FAILURE TO MAINTAIN PRIVATELY OWNED STORM WATER FACILITIES MAY RESULT IN ENFORCEMENT ACTION.

STANDARD DRAWINGS

ODOT

RM-1.1	ROADWAY MONUMENTS	1/20/23
BP-7.1	CURB RAMPS	1/20/23

WOOD COUNTY: (<http://engineer.co.wood.oh.us/index.php/standard-drawings>)

TYPE A MONUMENT ASSEMBLY
MOUNTABLE CURB AND GUTTER, TYPE F
STANDARD BARRICADE

SCALES

PLAN	1" = 50'
PROFILE, HORIZONTAL	1" = 50'
PROFILE, VERTICAL	1" = 5'
CROSS-SECTION, HORIZONTAL	1" = 20'
CROSS-SECTION, VERTICAL	1" = 5'

PAVEMENT APPROVED BY

 8/15/23
CITY OF PERRYSBURG
DIRECTOR OF PUBLIC SERVICE
ROB ROSS

DRAINAGE APPROVED BY

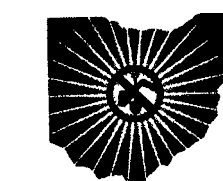

CITY OF PERRYSBURG
DIRECTOR OF PUBLIC UTILITIES
MATT CHOMA, P.E.

8/25/2023
DATE

DEVELOPED BY:

CANTERBURY REV, INC.
23285 WEST STATE ROUTE 51
GENOA, OH 43430

Mark E. Rich, Pres 8/10/23
MARK E. RICH DATE
PRESIDENT



OHIO UTILITIES
PROTECTION SERVICE
CALL 1-800-362-2764
TWO WORKING DAYS
BEFORE YOU DIG
NON-MEMBERS MUST BE
CALLED DIRECTLY

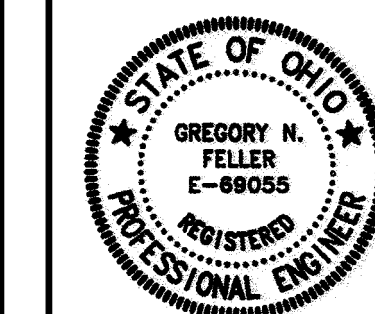
1683 Woodlands Drive, Maumee, Ohio 43537
Phone: (419) 893-3680
Fax: (419) 893-2982
www.fellorfinch.com

FellerFinch
& ASSOCIATES, INC.

[illegible]

PAVEMENT AND DRAINAGE

THE VILLAGES AT
CANTERBURY PLAT 4



SIGNED C. N. Felle
3/9/23

DATE:		
DATE: 2-6-23		
PROJECT: 10E07232-4		

PAVEMENT AND STORM SEWER SPECIFICATIONS

PART 1 GENERAL

1.1 SUMMARY

- A. Storm sewers, 60 inches in diameter and smaller.
- B. Pavement for local roads.
- C. Audio-DVD/CD taping of existing and new storm sewer interiors.

1.2 STANDARDS

- A. All materials and construction shall be in accordance with the Standards and Specifications of the City of Perrysburg (the City) Department of Public Services/Utilities, and/or the American Society for Testing and Materials (ASTM), and/or the Wood County Engineer, and/or the Ohio Department of Transportation (ODOT) Construction and Material Specifications (CMS). In case of conflict, City Standards and Specifications shall take precedence.

- B. All references to Standards and Specifications are to the latest edition, unless otherwise noted.

- C. The City's Pavement and Storm Sewer Standard Details apply to these specifications.

1.3 PRE-CONSTRUCTION MEETING, INSPECTION, AND PERMITS

- A. The Department of Public Utilities (419-872-8050), shall be notified seven calendar days prior to the beginning of actual construction.

- B. Any work within the City's public rights-of-way requires a Street Opening Permit which is obtained from the Departments of Public Utilities, at 211 East Boundary Street, 419-872-8050.

- C. All storm sewer installation and testing shall be inspected by the City or its representative.

- D. The City or its representative shall be present during all storm sewer TV inspection and taping.

1.4 DEFINITIONS

- A. Bedding: Material placed under, beside and directly over the pipe for the full width of the trench, from a depth of 4 inches below the outside bottom of the pipe barrel, when the pipe is laid on its final grade, up to a horizontal plane a distance of 12 inches above the top of the pipe barrel.

1.5 REGULATORY REQUIREMENTS

- A. Construction operations shall comply with the City's Noise and Vibration Control Ordinance, Section §34.11, as follows:
- No person shall use any pile driver, shovel, hammer derrick, hoist tractor, roller or other mechanical apparatus operated by fuel or electric power in building or construction operations between 10:00 p.m. and 6:00 a.m. of the next day in a residential area or within 500 feet of a school or church, except for temporary conditions approved by the Service-Safety Director.

2. No person shall perform any construction or repair work on any structure or building, or perform any excavation or road work, when such work entails the use of any power operated construction type device in such a manner that the noise created thereby substantially exceeds the noise customarily and necessarily attendant to the reasonable and efficient performance of such equipment.

3. Whoever violates any of the provisions of this section is guilty of a minor misdemeanor for a first offense and a misdemeanor of the fourth degree for any subsequent offense. Punishment shall be as provided in Ordinance Section 698.02.

- B. In accordance with Ordinance 1040.07, Rule 24 of the City's Streets, Utilities, and Public Services Code, "The sewer contractor shall be required, for two years after the completion of the work, to make all necessary repairs, including filling and seeding if settlement occurs." The sewer contractor is the Contractor responsible for the performance of the Work.

1.6 QUALITY ASSURANCE

- A. Pipe Sewers, Manholes and Appurtenances:

- The manufacturer shall furnish an affidavit indicating that all pipe, fittings, manholes, catch basins and appurtenances have been manufactured and tested in accordance with the requirements of the applicable referenced Standards. A copy of the affidavit, indicating the project on which the material is to be used, shall be forwarded to the City prior to construction.
- All pipes, fittings, manholes, catch basins, and appurtenances shall be appropriately marked for identification purposes. The materials and appurtenances of manufacture, and completed pipes, fittings, manholes, catch basins, and appurtenances shall be subject to inspection and rejection at all times. The City has the right to make inspections.

- B. Pipe Sewer Inspection:
- Contractor shall have a minimum of 5 years experience in inspection of pipeline sewers in addition to TV-DVD/CD and summary reports.
 - Perform Work in accordance with the latest standards for TV-DVD/CD recording procedures.

- Operation of equipment shall be controlled from above ground.
- The City shall have access to view monitor at all times.
- Inspection shall include pipe sewers from manhole to manhole.
- New sewers and existing sewers shall have its own separate DVD/CD and separate documentation.
- Label new and/or existing accordingly for all documentation.

1.7 RESTORATION

- A. All existing features that are disturbed due to construction activities, such as mailboxes, shrubs, bushes, guardrails, pavement markings, swales, sewers, catch basins, curbs, seeded areas, etc., shall be replaced to their original condition, unless otherwise specified, in accordance with current ODOT specifications and to the satisfaction of the City. Existing survey monuments, bench marks, property corner points, and control points damaged or disturbed by construction shall be replaced by a registered land surveyor, licensed in the State of Ohio.

- B. Restoration of street openings shall be in accordance with the City's Standard Street Opening Repair Details.

- C. In existing streets, provide a temporary pavement upon completion of backfilling operations and maintain same until the permanent pavement can be placed. Temporary pavement shall be a minimum 2-inch thick asphalt concrete mix in accordance with ODOT Item 614.13.

- D. Regrade and reshape all road shoulders and all ditches and swales from existing high points to existing drainage structures or other outlets along the proposed improvement. Ditches which are reshaped shall have reasonable side slopes. Vertical or steep slopes will not be permitted.

- E. Seed all disturbed earth areas using the hydrosseed method or placement of sod, both seed mixture and sod type shall be as approved by the City.

1.8 DESIGN REQUIREMENTS

- A. PVC Plastic Pipe and Fittings: Sewers 36 inch in diameter and smaller shall be of PVC plastic pipe and fittings, or other material as approved by the City.

- B. Concrete Pipe and Fittings: Sewers greater than 36 inch in diameter shall be Reinforced Concrete Pipe (RCP), ASTM C76 of Classes noted on Drawings, spigot and socket pattern, pipes of greatest lengths commercially available; ASTM C443 rubber gasket joints with gasket confined in a groove. Branches on fittings in the main line for connections shall be of the same material and incorporate joints as specified for the type of pipe which will be connected. Branches shall be cast with the concrete pipe by the pipe manufacturer and shall not be done in the field;

2.4 BACKFILL

- A. Earth Backfill: Excavated earth material. Use finely divided material, free of stones 3 inches or greater in any dimension, to at least 3 feet above pipe top.

- B. Granular Backfill: ODOT Item 304, crushed limestone.

- C. Controlled Density Fill (CDF): A mixture of Portland cement, fly ash, and selected granular materials with a compressive strength of 100 psi; Kuhlman Corporation "K-Krete", or as approved.

2.5 LOCAL ROADS

- A. Asphalt Concrete Pavement:

- 1-1/2 inches ODOT Item 448, Type 1 (medium traffic) Surface Course, PG 64-22.
- 2 inches ODOT Item 448, Type 2 (medium traffic) Intermediate Course, PG 64-22.
- 10 inches ODOT Item 304, Aggregate Base (placed in 2 lifts).

- On aggregate base, apply ODOT Item 408 Prime Coat at rate of 0.35 gallons per square yard. Installation to be as directed by the City.
- ODOT Item 407; apply tack coat at the rate of 0.04 gallons per square yard to be placed between intermediate and surface courses and joints.
- Sealer for Contact and Mating Surfaces and Joints: Comply with ODOT Items 401.14 and 401.17.
- Pavement Sealer: When requested by and as approved by the City.

- B. Concrete Driveways and Parking Areas:

- Pavement: ODOT Item 452 Non-Reinforced Portland Cement Concrete Pavement.
 - Commercial Drives: minimum 9 inch thick or match existing
 - Residential Drives: minimum 6 inch thick or match existing
- Reinforcement: Match existing.
- Hook Bolts:
 - Provide 5/8-inch hook or deformed bolts where new abuts existing.
 - Furnish and install at 30 inches center-to-center where new abuts existing longer than 10 inches, as determined by the City, furnish and install at 20 inches center-to-center where new abuts existing transversely.
 - When thickness is greater than 10 inches, as determined by the City, furnish and install at 26 inches center-to-center where new abuts existing transversely.

- C. Concrete Curbs: ODOT Item 609.04; Class C concrete.

PAVEMENT AND STORM SEWER SPECIFICATIONS

- D. Pipe Underdrains: ODOT Item 605 using pipe 706.06, 706.07, 706.08 or 707.41.

2.6 MONUMENT ASSEMBLY (IN PAVED AREAS)

- A. Neenah Foundry Company, R-1978-A2 with bolted lid.

2.7 CURB RAMP DETECTABLE WARNING TRUNCATED DOMES

- A. Materials:
- Follow current ODOT Specifications 712.14 as modified herein.
 - Truncated Domes: Shall consist of cast-in-place reinforced polymer composite tiles.
 - Material supplied shall be red color, and installed by pressing tiles into place in the freshly poured concrete.
 - Material supplied and installed shall meet ODOT Standard Drawings and current approved products as listed at: <http://www.dot.state.oh.us/Divisions/Engineering/Roadway/DesignStandards/roadway/Pages/Approved%20Products.aspx> (DETECTIBLE WARNING)

- B. Concrete: ODOT Class C.

PART 3 EXECUTION

3.1 STORM SEWER PIPE AND FITTINGS

- A. Install PVC plastic pipe and fittings in accordance with ASTM D2321 and the requirements of these specifications.

- B. Install concrete pipe within the maximum allowable depths (ground surface to invert) and the maximum allowable trench widths (at the top of the pipe) as specified in 1.6.B.

- C. Excavate trenches to a depth of 4 inches below the outside bottom of the pipe barrel and bell when the pipe is laid on its final grade to allow for bedding material.

- D. Place bedding material (ODOT No. 67 or No. 57 crushed limestone) under, beside, and to 12 inches over the pipe sewer for the full width of the trench, place in 6 to 12-inch layers, loose measure, and work the crushed stone around the pipe to provide even support, to fill all voids, and to lightly compact the crushed stone (by hand).

- E. Install pipe at a minimum 10 feet horizontal distance from water mains and hydrants, and lay pipes at a minimum 18 inches vertical distance from water mains at their crossing, both as measured between the outside of the pipe walls. At crossings, install one full length of pipe so both joints will be as far from the main as possible.

- F. From the top of the bedding to a point 5 feet below the adjacent ground level, backfill trenches in and within 5 feet of the edge of existing and proposed paved or stoned streets, alleys, driveways, sidewalks, and parking areas with granular material (ODOT No. 304 crushed limestone). Place the crushed limestone material in maximum 36-inch layers, loose measurement. Mechanically level the crushed stone and compact each layer with an excavator-mounted vibratory plate compactor that produces a rated compactive force of at least 9 psi. Each layer to receive a minimum of two complete passes, except where CDF is indicated on the Drawings.

- G. The top 5 feet of the trench shall be backfilled with granular material (ODOT No. 304 crushed limestone). Place the crushed limestone material in maximum 12-inch loose layers and mechanically compact to not less than 100 percent of the maximum dry unit weight as determined in accordance with ASTM D698 (Standard Proctor), except where CDF is indicated on the Drawings.

- H. For trenches within 5 feet from the edge of existing and proposed paved or stoned streets, alleys, driveways, sidewalks, and parking areas, backfill with compacted granular material as specified above for trenches coming within same.

- I. For backfilling trenches not requiring compacted granular material or CDF, replace as much of the excavated material as possible. Until backfilling has progressed to a depth of at least 3 feet over the top of the pipe barrel, use finely divided material, free of stones 3 inches or greater in any dimension, boulders and other harmful debris, and place in 24-inch layers, loose measurement, and compact by mechanical tamping. Place remainder of backfill in maximum 12-inch layers, loose measurement, and compact by mechanical tamping.

- J. Changes in pipe material to meet City Specifications shall occur only at manholes and catch basins.

3.2 MANHOLES AND CATCH BASINS

- A. All manholes and catch basins shall be installed without sumps or traps.

- B. Install base with top surface level; install on cushion of approved compacted granular material, minimum of 3 inches thick.

- C. For pipe connections, fill area between pipe and opening with grout, inside and outside of structure.

- D. Install wall sections plumb and level. When walls include steps, install with steps in the center of a traffic lane or between lanes where possible when in pavement, and, when outside pavement, with steps located away from the pavement edge unless the manhole is within a ditch line, then locate steps on the high side of the ditch slope.

L:\Engineering Division\Engineering Guests\Standard Specifications\11x17 storm specifications_revised_12-30-2015.docx

Page 1 of 5

Revised: 12-30-2015

PAVEMENT AND STORM SEWER SPECIFICATIONS

maximum allowable depths (ground surface to invert) and the maximum allowable trench widths (at the top of the pipe) for the various classes and sizes of ASTM C76 reinforced concrete pipe shall be as follows:

ASTM C76 CLASS II CLASS III

Pipe Diameter	Depth	Trench Width	Depth	Trench Width
42 inch	12"	6'-3"	16"	6'-3"
54 inch	13"	7'-6"	19"	7'-6"
60 inch	14"	8'-0"	19"	8'-0"

ASTM C76 CLASS IV CLASS V

Pipe Diameter	Depth	Trench Width	Depth	Trench Width
42 inch	25"	6'-3"	35"	6'-6"
54 inch	25"	7'-6"	35"	8'-0"
60 inch	27"	8'-0"	35"	8'-6"

- C. Manholes shall not be designed or constructed to be located within the landscaped islands of cul-de-sacs.

1.9 SEWER INSPECTION SYSTEM REQUIREMENTS

- A. Camera:

- Capable of operation in 100 percent humidity conditions.
- Specifically designed and constructed for intended service.
- Resolution: 500 lines per inch; color image.
- Provide remote operation of lighting system and camera.
- Provide with pan and tilt rotating head capabilities.
- Footage Meter: Provide equipment with a footage meter so that the location of the camera and point of observation is known at all times.

- B. Monitor:

- Located inside mobile TV studio large enough to accommodate a minimum of four people to view the monitor at all times.
- Capable of providing a color picture.

- C. DVD/CD Recorder:

- Compatible with closed circuit TV to allow for direct recording during inspection.

PART 2 PRODUCTS

2.1 PIPE MATERIAL

- A. PVC Plastic Pipe and Fittings:

- ASTM D3034 (6" thru 15" pipe sewer at manufacturer's recommended depth).
- ASTM F679 (18" thru 21" pipe sewer at manufacturer's recommended depth).

2.2 MANHOLES AND CATCH BASINS

- A. Materials:

- Precast Concrete Sections: ASTM C478.
- Cast-In-Place Concrete: ODOT Class C concrete.
- Concrete Fill: ODOT Class F concrete.
- Rubber Gasket Joints: ASTM C443.
- Manhole Steps: ASTM C478.
- Castings: ASTM A48, Class 30B heavy duty gray iron.
- Mortar: ASTM C270, Type S with no masonry cement; compose using two parts Portland cement to two parts sand by volume.
- Stons Fill: Standard size number 67 stone or as otherwise approved.
- Grout: Non-shrinking and non-corrosive: Five Star Grout by Five Star Products, Inc.; Sealtight 588 Grout by W.R. Meadows, Inc.; or as approved.

- B. Components:

- Bases: Integral or separate base riser and base slab; openings for pipe to be preformed or cored by manufacturer, with openings exceeding pipe outside diameter by more than 6 inches cause for rejection, provide transition sections when base is greater than 48 inches diameter.
- Walls: Vertical precast concrete riser sections with rubber gasket joints.
 - Eccentric cone top section narrowing down to a minimum 3-inch high vertical neck with an inside diameter of not less than 24 inches and outside diameter not less than that of grade rings, except reinforced flat slab top for manholes and catch basins too shallow to accommodate a

2.3 BEDDING MATERIALS

- A. Granular: ODOT Item 703, Size No. 67 or No. 57 crushed limestone.

- B. Concrete Encasement: ODOT Class C concrete.

cone section; design flat slab tops to withstand H-20 traffic loading and submit design calculations to the City upon request. Provide grade rings for a minimum height of 4 inches and a maximum height of 12 inches as required to set castings at proper elevation; ring inside diameter equal to the top section access opening, and outside diameter not less than the outside diameter of the casting frame.

4. Manhole Steps: Aluminum or reinforced polypropylene.

5. Rear Yard Catch Basin: ASTM C14, class 2 Non-reinforced concrete pipe with knockouts as indicated.

4. An exception shall be made for ASTM D3034 PVC plastic fittings 8 inches in size and smaller, with such fittings to have a minimum wall thickness of SDR 35 as defined in Section 7.4.1, and elastomeric joints and minimum socket depths in accordance with Sections 6.2 and 7.3.2; to be molded in one piece using ASTM D1784 having a cell classification of 12454-B or C, or 12364-A, ASTM F477 gaskets having a minimum cross sectional area of 0.20 sq. in.
- B. Concrete Pipe and Fittings: ASTM C76 of Classes noted on Drawings, spigot and socket pattern, pipes of greatest lengths commercially available; ASTM C443 rubber gasket joints with gasket confined in a groove.
- A. Materials:
- Precast Concrete Sections: ASTM C478.
 - Cast-In-Place Concrete: ODOT Class C concrete.
 - Concrete Fill: ODOT Class F concrete.
 - Rubber Gasket Joints: ASTM C443.
 - Manhole Steps: ASTM C478.
 - Castings: ASTM A48, Class 30B heavy duty gray iron.
 - Mortar: ASTM C270, Type S with no masonry cement; compose using two parts Portland cement to two parts sand by volume.
 - Stons Fill: Standard size number 67 stone or as otherwise approved.
 - Grout: Non-shrinking and non-corrosive: Five Star Grout by Five Star Products, Inc.; Sealtight 588 Grout by W.R. Meadows, Inc.; or as approved.

- B. Components:

- Bases: Integral or separate base riser and base slab; openings for pipe to be preformed or cored by manufacturer, with openings exceeding pipe outside diameter by more than 6 inches cause for rejection, provide transition sections when base is greater than 48 inches diameter.
- Walls: Vertical precast concrete riser sections with rubber gasket joints.
 - Eccentric cone top section narrowing down to a minimum 3-inch high vertical neck with an inside diameter of not less than 24 inches and outside diameter not less than that of grade rings, except reinforced flat slab top for manholes and catch basins too shallow to accommodate a

L:\Engineering Division\Engineering Guests\Standard Specifications\11x17 storm specifications_revised_12-30-2015.docx

Page 3 of 5

Revised: 12-30-2015

PAVEMENT AND STORM SEWER SPECIFICATIONS

- E. Set grade rings in a full bed of mortar and mortar the interior of the grade rings to provide a smooth common surface from frame to top.

- F. Set casting frames firmly on top of grade rings with a full leveling bed of 1:1 cement mortar; in paved areas, make casting top 1/4 inch below top of pavement surface; in unpaved streets and alley areas, set the cover not to exceed 1 inch above the ground surface. On right-of-way and in ditches cover elevation shall be as approved by the City.

- G. If not integrally cast with the base, after pipe installation provide an Class F concrete invert having a depth equal to 1/2 the sewer pipe diameter and sloping upward toward walls approximately 3 inches; trowel concrete smooth. For concrete inverts integrally cast with the base, fill any void between base and wall with Class F concrete to match top of shaped invert.

- H. Encase all manhole frames located in pavement in concrete extending from a horizontal plane 4 inches below the lowest grade ring up to the top of the frame, unless otherwise shown or noted. Make the concrete encasement circular in plan by using a minimum 48-inch diameter steel casing ring as a form, centered on the frame.

- I. For rear yard catch basin, pour a 4 inch thick Class C concrete base upon compacted subgrade. Install catch basin pipe to finish grade, bell end up, upon base; connect pipes, and backfill; set frame and grate.

- J. Each lot shall have direct access to a rear yard catch basin, per the standard details.

- K. Manholes and catch basins shall be located no further than 15 feet behind back of curb or edge of pavement unless approved by City of Perrysburg.

3.3 SERVICE CONNECTIONS

- A. Provide for existing and future houses and businesses; minimum 6 inches in diameter unless otherwise shown; maximum two service connections per lateral, install at 1 percent slope.

- B. New pvc pipe sewers 27 inch diameter and less: connect to the main sewer by providing an appropriate sized manufacturer wye.

- C. New pvc pipe sewer connections: greater than 27 inch diameter: for services up to 15 inch diameter connect to the main sewer by making a direct connect by providing an inserta tee manufactured by Inserta Fittings, or as approved by the City, for up to 8 inch diameter services, connect to the main sewer by using an appropriate size stainless steel sewer pipe saddle, as manufactured by General Engineering Company.

- D. Existing pvc sewer pipe sewer connections: for up to 15 inch diameter services, connect to the main sewer by making a direct connect by providing an inserta tee manufactured by Inserta Fittings.

- E. New and existing concrete pipe sewers 12 inch diameter and larger: for 6 and 10 inch diameter services connect to the main sewer by providing a Kor-N-Tee pipe to pipe lateral connector as manufactured by NFC. Hole shall be cored by using a diamond bit drill of the appropriate size. For 12 inch and 15 inch diameter, connect to the main sewer by providing an inserta tee manufactured by Intera Fittings.

- F. Install 3 feet minimum into each lot, or as otherwise noted, true to line and on at least 1 percent grade with a minimum depth of 5 feet at the plug or the maximum depth possible for main sewers less than 5 feet deep.

- G. Provide riser sections of pipe and fittings between the main line sewer connection and that portion installed on at least a 1 percent grade where depths to the main sewer invert exceed 12 feet. Fix riser in place for its full height by providing thoroughly tamped pipe embedment material as shown.

- H. Close service connections not immediately connected to an existing sewer with a sewer pipe plug. Plug shall be specifically designed for use with the pipe, shall be for use as a permanent or temporary plug, shall be watertight, and shall be removable without damaging the pipe.

- I. Do not backfill the ends of service connections until the location is referenced in accordance with the detail on the Drawings. Provide a 2-inch square oak pole accurately placed over the terminus of each service connection and extending vertically flush with the surface of the ground so that it can be located.

3.4 CONNECTIONS TO STRUCTURES AND PIPES

- A. Connect new sewers to structures through stubs, wall castings, wall sleeves, etc. provided for same, or make an opening at the proper elevation in the wall of the structure, insert the pipe, and neatly and permanently close the opening around the pipe with grout.

- B. Make connections watertight.

- C. Where necessary, reshape the bottoms of existing structures to give a smooth flow in all directions.

- D. Connect unlike types and sizes of pipe using proper adapter or connector by Fernco, Inc., Joints, Inc., or as approved.

3.5 SEWER INSPECTION

- A. Preparation:

- Upon successful completion of all testing verify with the City new and existing sewers to be TV inspected.
- Flush and clean sewer interiors to remove sludge, dirt, sand, stones, grease, debris, and other materials from the pipe to ensure clear view of interior conditions.
- Contractor shall intercept debris at downstream manhole, remove and disposed at an approved location off-site. Provide written documentation to the City indicating disposal site location.
- Provide materials, labor, equipment, power, and maintenance to implement a temporary by-pass pumping system around the work area for time required to complete TV inspection.
- Coordinate with the City proposed time and duration of by-pass pumping.

- B. Closed-Circuit TV (CCTV) Camera System:

- Use equipment specifically designed and constructed for closed-circuit sewer inspection
- Utilize camera with pan and tilt capabilities to view entire sewer and each lateral connection at multiple angles.
- Provide appurtenances and artificial lighting as required to enhance the quality of the inspection.
- Use equipment capable of traveling upstream and downstream.

- C. Inspection Operations:

- The camera shall be moved through the pipe sewer in either direction at a moderate rate (at no time shall the speed be greater than 30 feet per minute).
- The camera shall be stopped when necessary to permit proper documentation of the sewer's condition.
- All service connections and inlets shall be noted on the map.
- Manual winches, power winched, TV cable and powered rewinds or other devices that do not obstruct the camera view or interfere with proper documentation of the sewer conditions shall be used to move the camera through the sewer line.
- When manually operated winches are used to pull the television camera through the sewer, telephones or other suitable means of communication shall be set up between the two manholes on the section being inspected to insure good communications between members of the crew.
- Documentation made during inspection operations must conform to the following guidelines:
 - Meet minimum standards for CCTV inspection of sewers as prepared by the National Association of Sewer Service Companies (NASSCO).
 - Log Sheet: A written log sheet must accompany each DVD/CD.

L:\Engineering Division\Engineering Guests\Standard Specifications\11x17 storm specifications_revised_12-30-2015.docx

Page 2 of 5

Revised: 12-30-2015

L:\Engineering Division\Engineering Guests\Standard Specifications\11x17 storm specifications_revised_12-30-2015.docx

Page 4 of 5

Revised: 12-30-2015

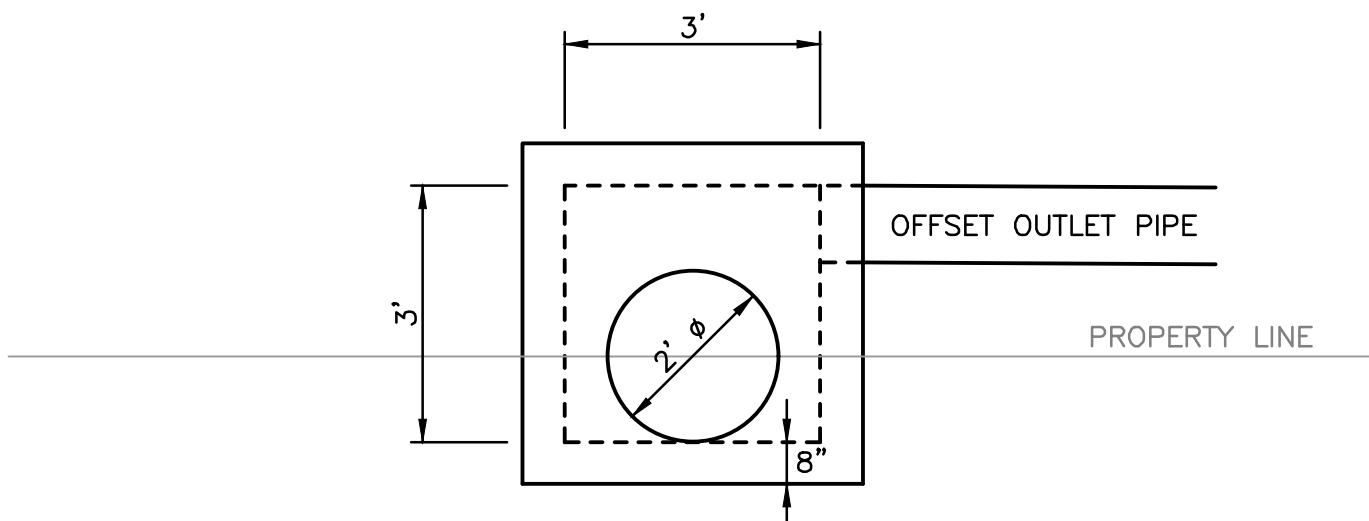
FELLER, FINCH & ASSOCIATES, INC.			
REVISION	DATE	DESIGN BY:	CMG
		DRAWN BY:	RSP
		DATE:	2-6-23
		CHK'D BY:	CMG
		DRAWING: 10-07232DP0408	

- PAVEMENT AND STORM SEWER SPECIFICATIONS
- c. For new sewers, Contractor shall utilize and make reference to manhole numbering as shown and indicated on the project Drawings.
- d. For existing sewers, Contractor shall prepare and provide a map indicating manhole numbering.
- e. Reference to new and existing manhole numbers on the DVD/CD, summary report, and pictures shall be consistent with the numbering sequence on the Drawings and on the map provided by Contractor.
- 3.6 LOCAL ROADS (UNLESS OTHERWISE APPROVED OR DIRECTED)
- A. Prepare subgrade in accordance with ODOT Item 203. Where it is necessary to construct pavement subgrade in fill, remove the existing topsoil beneath the proposed subgrade.
- B. Asphalt Concrete Pavement:
- ODOT Item 304; construct a 10-inch thick aggregate base in two equal lifts.
 - ODOT Item 408; apply prime coat at the rate of 0.35 gallons per square yard to the aggregate base. Installation to as be directed by the City.
 - ODOT Item 448; construct a 2-inch thick asphalt concrete intermediate course.
 - ODOT Item 448; construct a 1-1/2-inch thick asphalt concrete surface course.
 - ODOT Item 407; apply tack coat at the rate of 0.04 gallons per square yard to be placed between intermediate and surface course and joints.
 - Pavement sealer; apply as instructed by manufacturer.
- C. Concrete Driveways and Parking Areas: ODOT Item 452.
- D. Concrete Curbs: ODOT Item 609.04 Type 2 Combination Curb and Gutter or Type 6 Curb.
- E. Pipe Underdrains: ODOT Item 605.03, and as shown on ODOT Standard drawing DM-1.2 and approved Drawings.
- 3.7 MONUMENT ASSEMBLY (IN PAVED AREAS)
- A. Place Type C monuments in accordance with ODOT Item 604, and Standard Construction Drawing RM-1.1.
- 3.8 CURB RAMP DETECTABLE WARNING TRUNCATED DOMES
- A. Material to be supplied shall meet ODOT's Office of Roadway Engineering Services Truncated Domes Approved List.
- B. Installation shall be in accordance with ODOT's latest Standard Construction Drawings for New Curb Ramps (with Truncated Domes) BP-7.1 and Retrofitted Curb Ramps BP-7.2.
- C. All curb ramps/retrofitted curb ramps shall include new ODOT Class C concrete where truncated dome material is to be installed.
- D. The City will approve proposed material to be installed.
- 3.9 FIELD QUALITY CONTROL
- A. The City may check compaction of the bedding and backfill at any time.
- B. All testing shall be in the presence of the City or its' representative.
- C. For compacted bedding and backfill in trenches and for concrete work, the City may require the employing a testing laboratory to make tests on Site.
- The City will pay for required testing that meets the City bedding and backfilling specifications.
 - Contractor shall pay for any retesting required to meet specifications.
- D. Deflection Test:
- Test 8-inch diameter and larger PVC plastic pipe for a maximum deflection of 5 percent not less than 30 days after final full backfill has been placed, as determined by the City.
 - Conduct deflection tests with a representative of the City present.
 - Repair or replace pipes exceeding a deflection of 5 percent and then retest until satisfactory test results are obtained. Retesting shall not take place prior to 30 days after the pipe repair/replacement and backfill have occurred. For sewers requiring retesting for deflection and previously tested for leakage, upon obtaining satisfactory deflection test results, retest the affected sewer section for leakage.
 - Conduct tests by pulling an approved deflection probe, having a diameter not less than 95 percent of the base inside diameter or average inside diameter of the pipe depending on which is specified in the ASTM Specification, including the appendix, to which the pipe is manufactured, through the sewer line without mechanical pulling devices. Have a proving ring with an inside diameter equal to the outside diameter of the probe available at the time the probe is used to verify that the probe has the proper diameter by inserting the probe into the ring. The pipe shall be measured in accordance with ASTM D2122.
 - Deflection Probe: By Wortco, Inc., Burke Concrete Accessories, Inc., or as approved; designed specifically for testing the deflection of the type and size of pipe subject to test, and complying with the following:
 - Odd number (no less than 9) of 1/2 inch by 3/16 inch bar stock runners equally spaced on edge around and welded to the circumference of two minimum 1/4 inch thick circular steel plates.
- b. Distance between plates, out-to-out, of not less than 2 inches smaller than the nominal diameter of the pipe to be tested, with runners extending approximately 1-1/2 inches beyond each plate being bent inward for this distance at approximately 30 degrees.
- c. Continuous 3/4-inch threaded rod through the center of the plates, having a hex nut drawn tight against the inside face of each plate, and extending each side as required for providing a 3/4-inch ferrule loop insert or similar piece for attaching the pulling medium.
- 3.10 MAINTENANCE OF TRAFFIC
- A. Two-way traffic shall be maintained at all times on dedicated roads. If construction along dedicated roads interferes with traffic, Contractor shall provide two flaggers and other traffic control devices in accordance with the latest edition of the Ohio Manual of Uniform Traffic Control Devices.

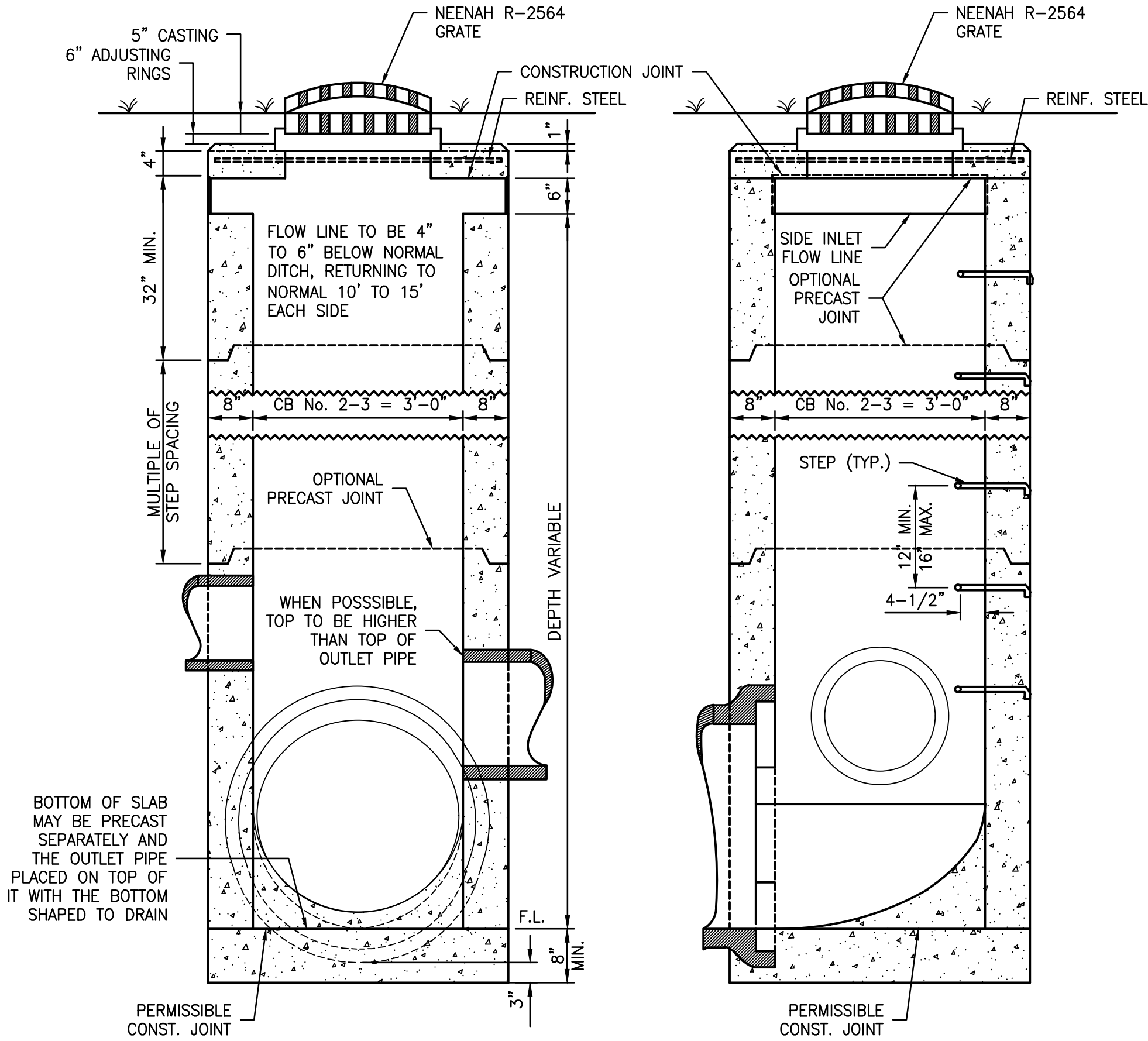
L:\Engineering Division\Engineering Guests\Standard Specifications\11x17 storm specifications_revised_12-30-2015.docx

Page 5 of 5

Revised: 12-30-2015



ODOT 2-3 CATCH BASIN, MODIFIED

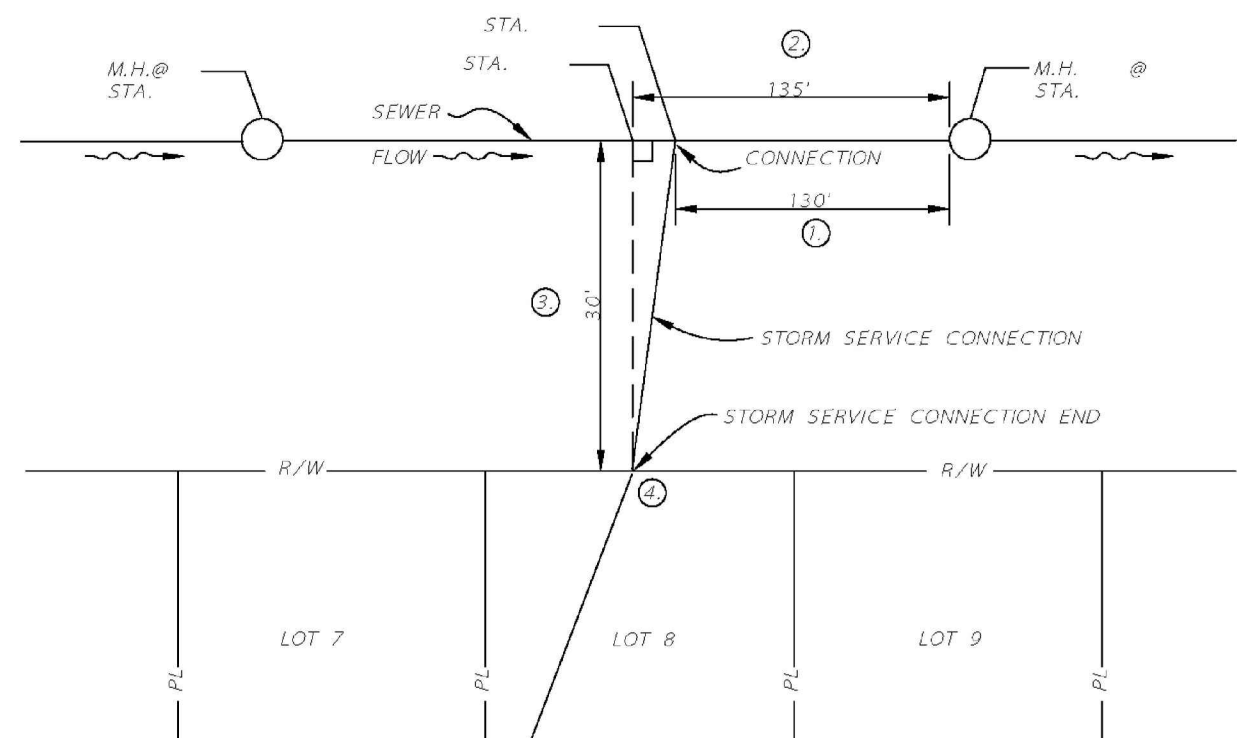


ODOT 2-3 CATCH BASIN, MODIFIED

RECORD CONSTRUCTION 8/19/24

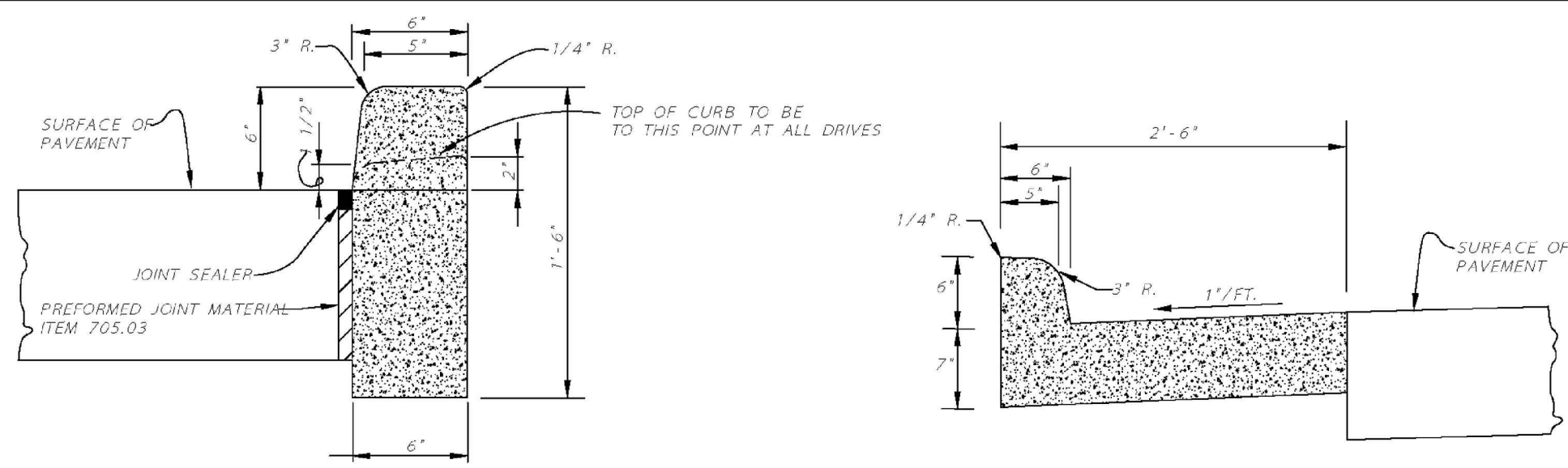
3
32

10E07232-4



NOTE:
① HORIZONTAL DISTANCE OF CONNECTION TO DOWNSTREAM M.H.
② HORIZONTAL DISTANCE OF STORM SEWER SERVICE CONNECTION END TO DOWNSTREAM M.H. ALONG SEWER.
③ PERPENDICULAR DISTANCE FROM SEWER TO STORM SEWER SERVICE CONNECTION END.
④ ELEVATION OF STORM SEWER SERVICE CONNECTION END FLOW LINE.

STORM SEWER SERVICE CONNECTION LOCATION REFERENCE
NO SCALE



ODOT TYPE 6 CURB REPLACEMENT
NO SCALE

ODOT TYPE 2 COMBINATION CURB
NO SCALE

5'-0" NEW CURB
PAID FOR AT APPROPRIATE UNIT PRICE (TYP.)

5'-0" NEW CURB

DEPRESS GUTTER
2" IN 5'

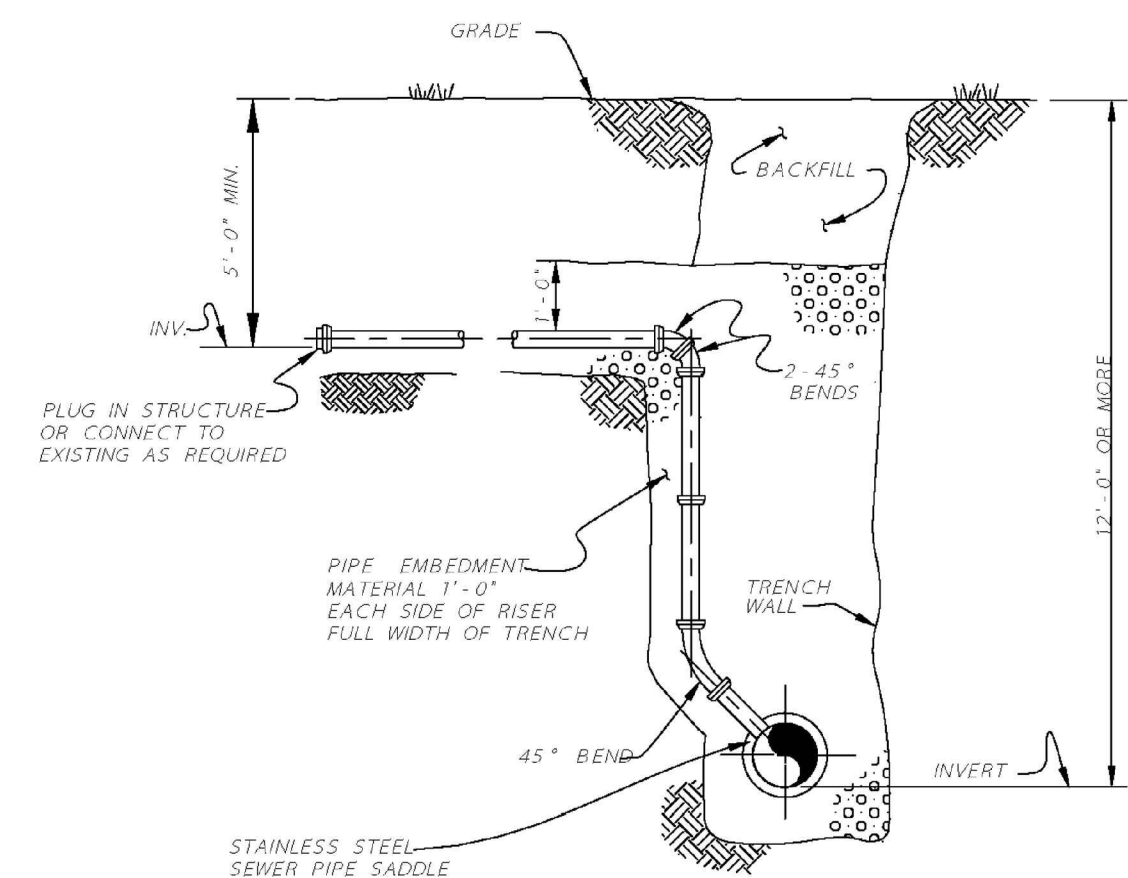
DEPRESS GUTTER
2" IN 5'

EXISTING ASPHALT

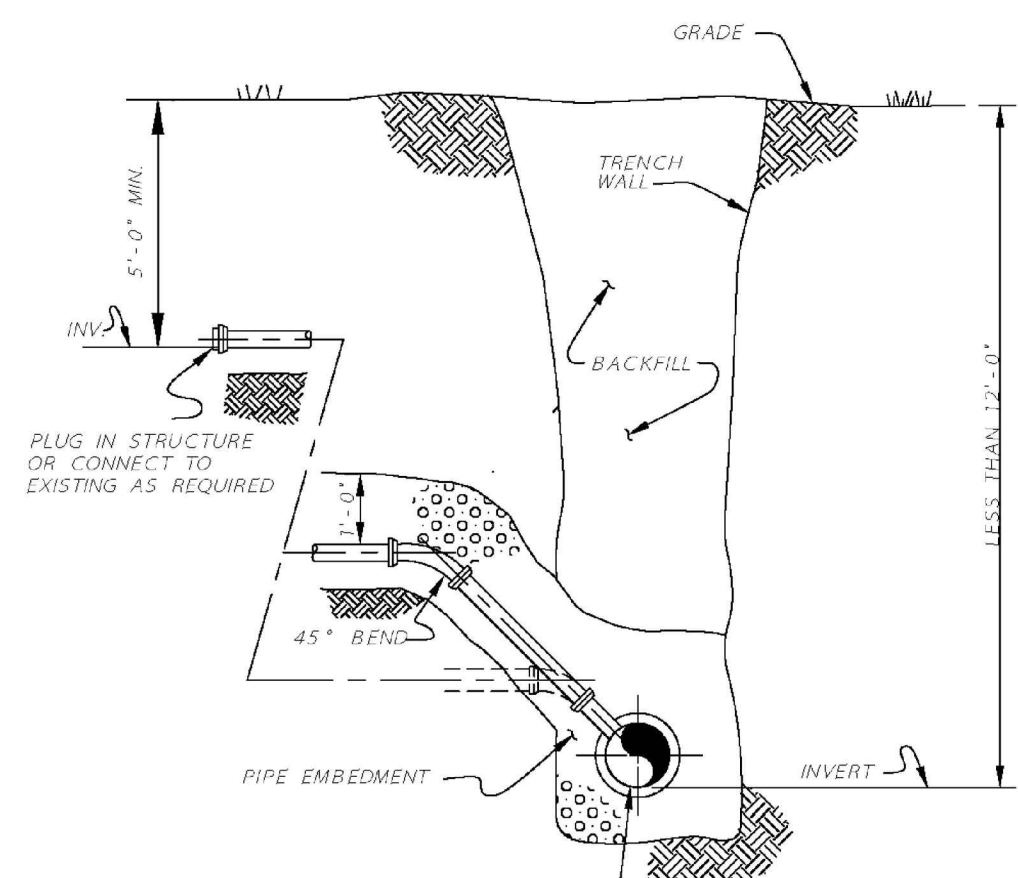
NEW ASPHALT PAVEMENT

ASPHALT CEMENT SEAL

TYPICAL INLET DETAIL WITH DEPRESSED GRATE
NO SCALE

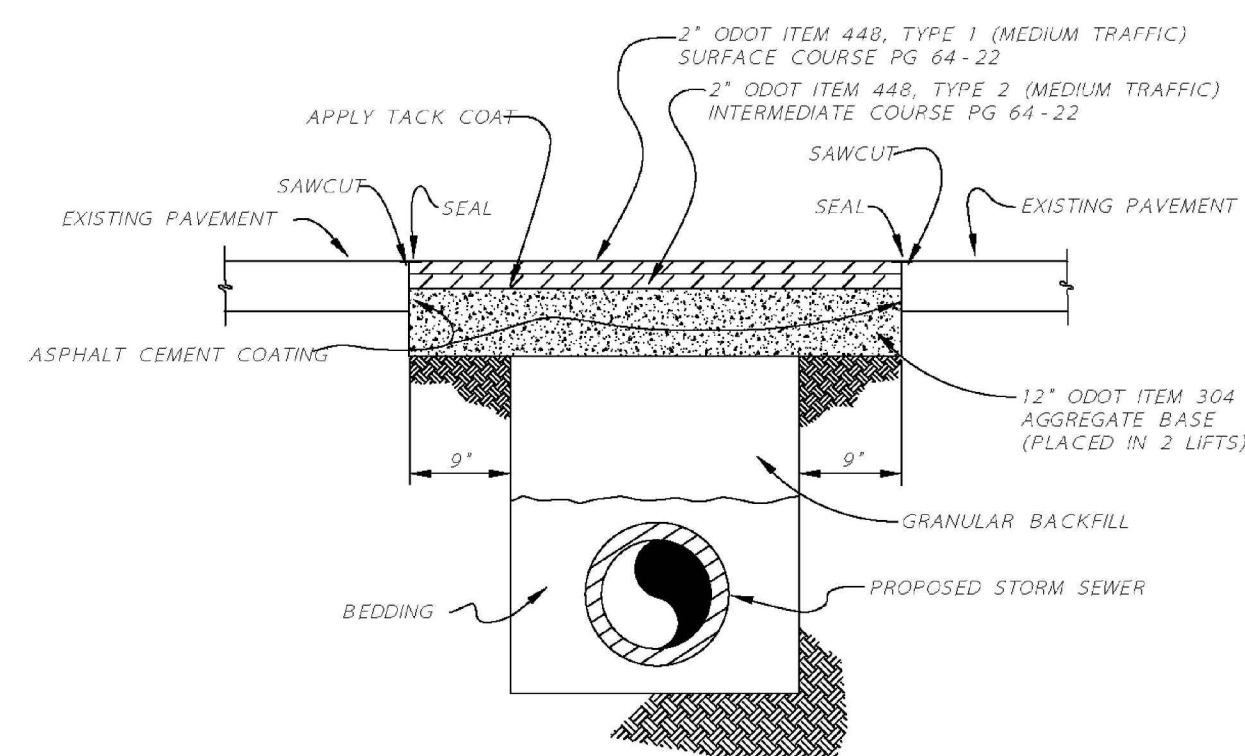


SECTION
RISERS WHERE DEPTH OF MAIN SEWER EXCEEDS 12'-0"

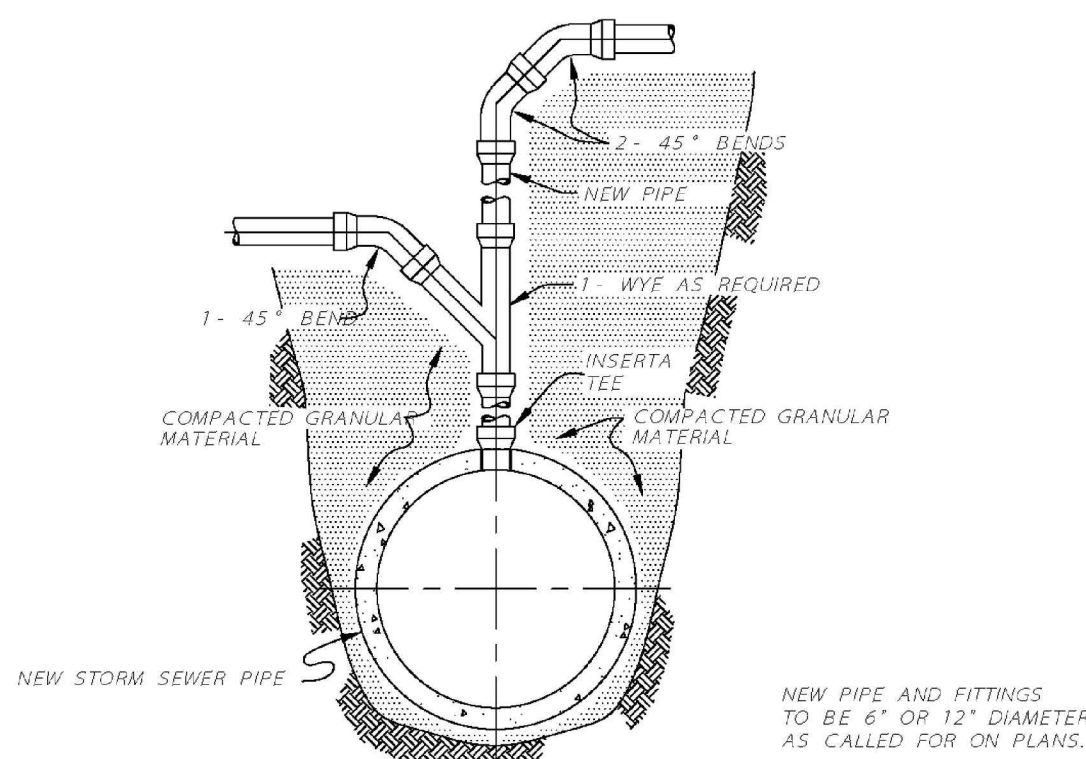


SECTION
CONNECTION WHERE DEPTH OF MAIN SEWER IS LESS THAN 12'-0"

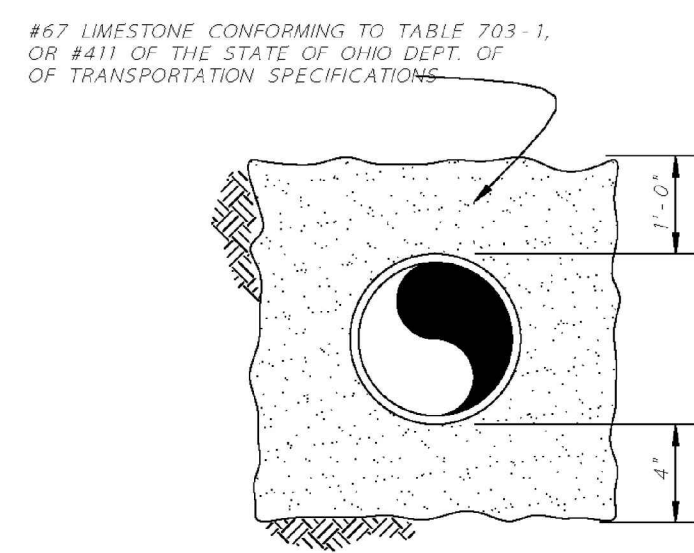
STORM SEWER SERVICE CONNECTIONS OF STORM SEWERS 48" AND LESS
NO SCALE



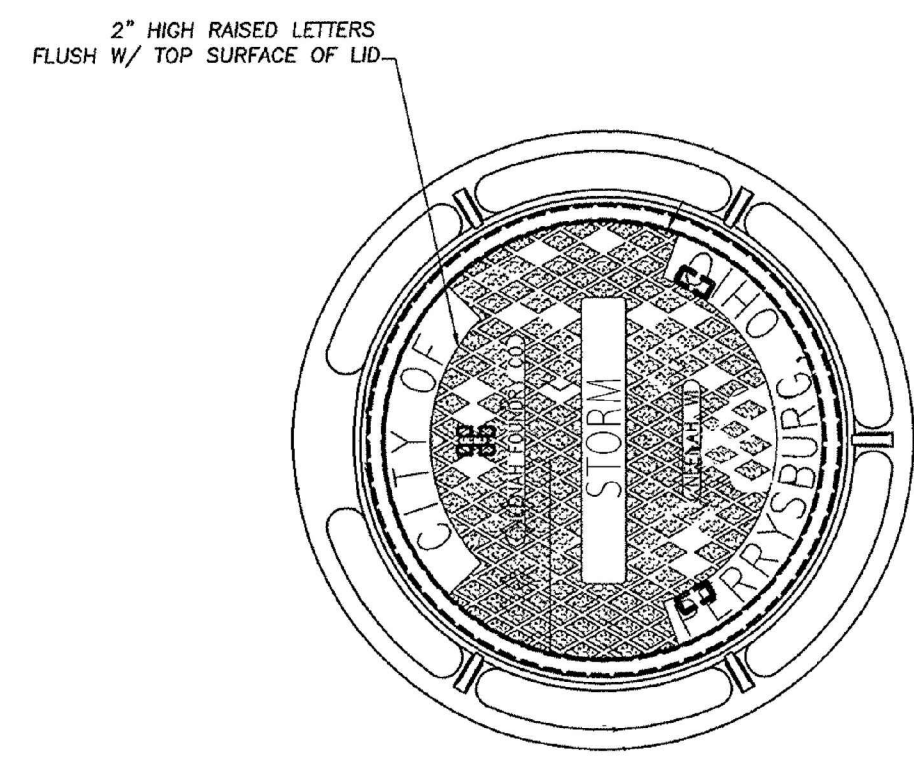
SECTION
PERPENDICULAR STREET OPENING REPAIR DETAILS
NO SCALE



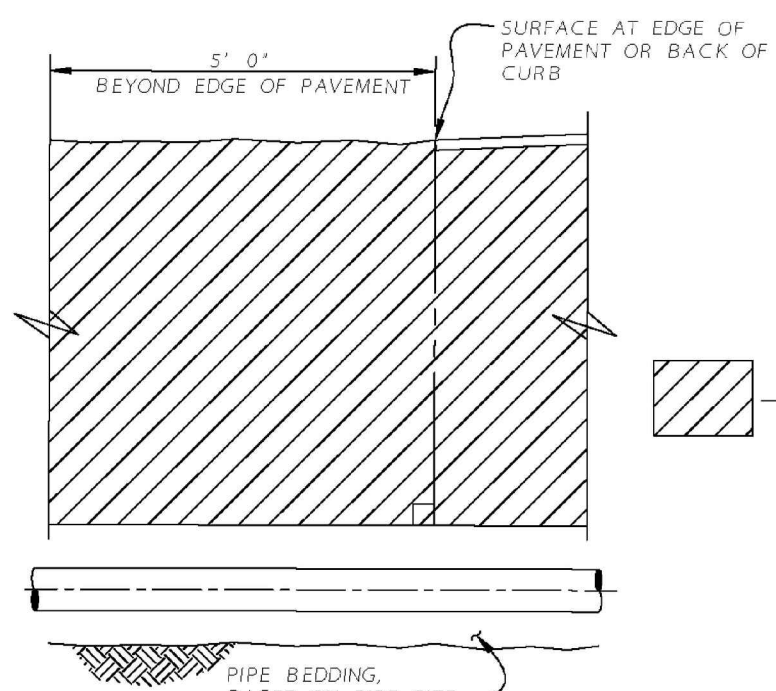
CONNECTION TO STORM SEWERS GREATER THAN 48" DIAMETER
NO SCALE



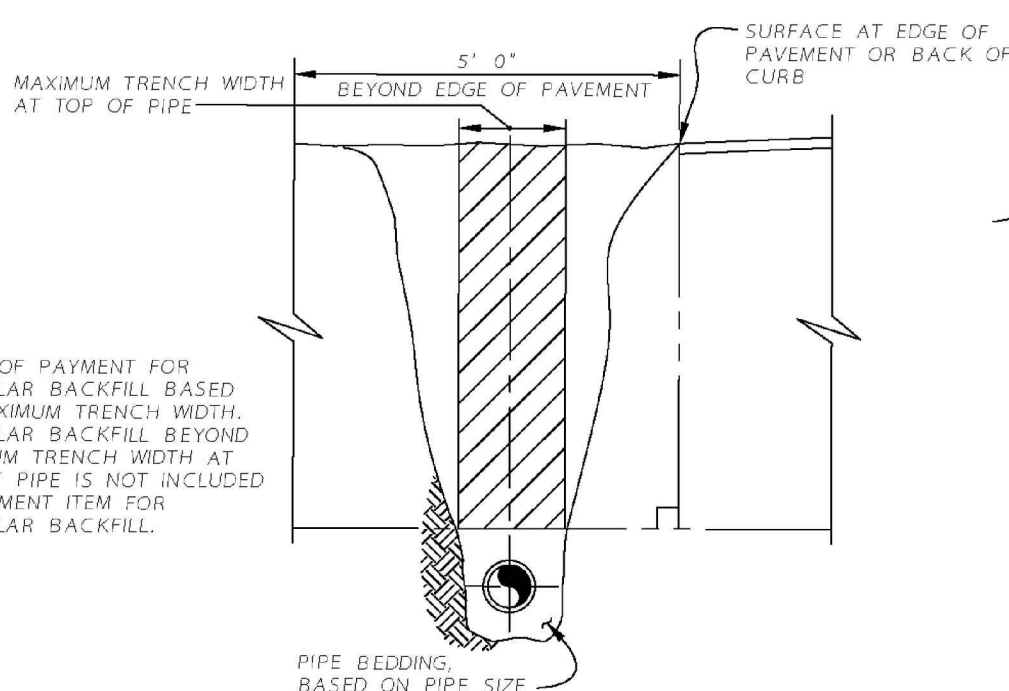
BEDDING DETAIL FOR PIPE SEWERS
NO SCALE



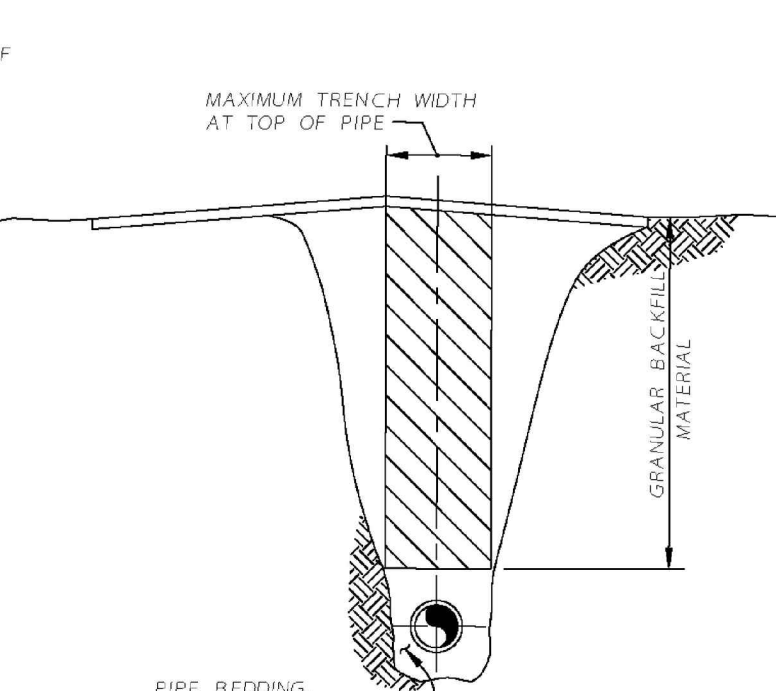
MANHOLE COVER
NO SCALE



CROSSING PAVEMENT WITHIN MAXIMUM TRENCH WIDTH



PARALLEL PAVEMENT WITHIN MAXIMUM TRENCH WIDTH



INSIDE PAVEMENT

SECTION

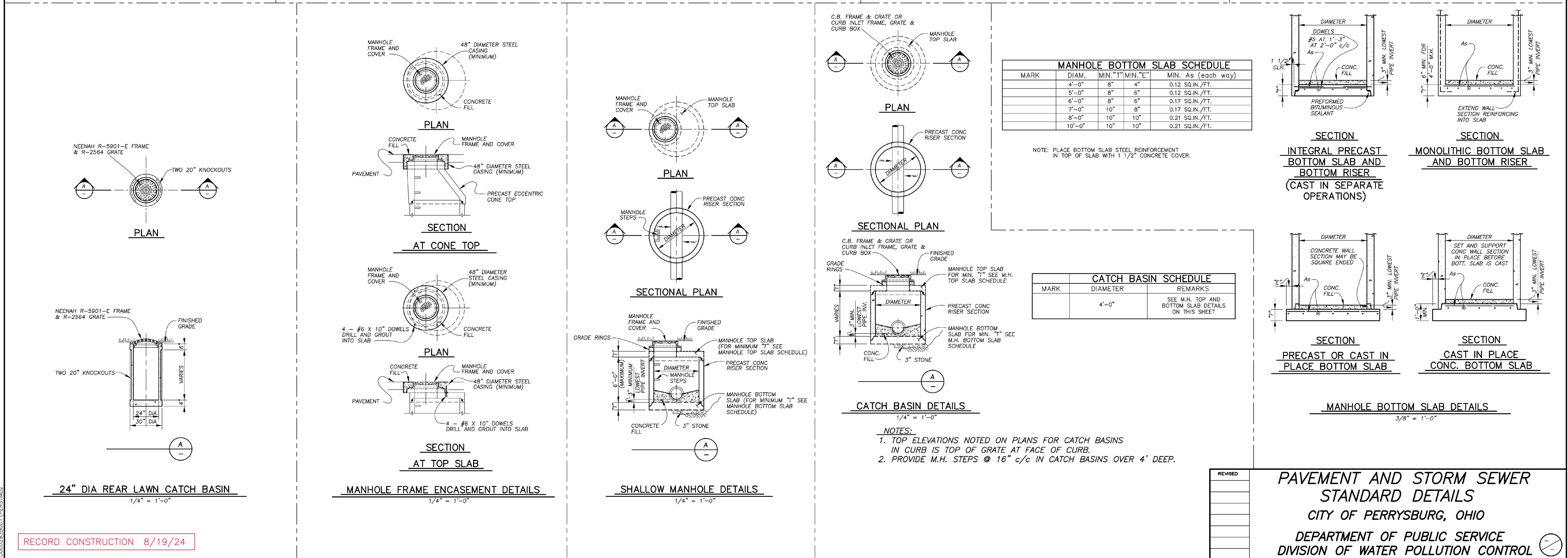
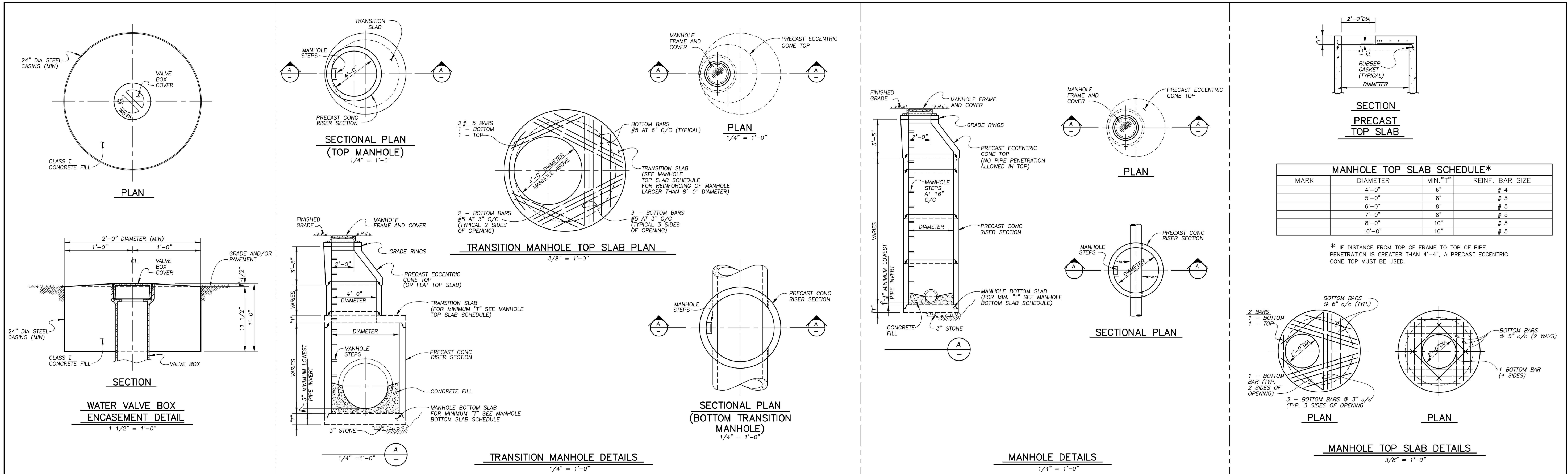
SECTION

SECTION

GRANULAR BACKFILL
NO SCALE

EAST JORDAN IRON WORKS, INC. CATALOGUE 1040 WITH SOLID LID TYPE B OR AS APPROVED; MACHINED SURFACE, FRAME WITH 24 INCH DIAMETER CLEAR OPENING, AND 7 INCH HEIGHT, LIDS TO HAVE "CITY OF PERRYSBURG, OH" - "STORM" CAST INTO TOP.

PAVEMENT AND STORM SEWER
STANDARD DETAILS
CITY OF PERRYSBURG, OHIO
DEPARTMENT OF PUBLIC SERVICE
DIVISION OF WATER POLLUTION CONTROL



RECORD CONSTRUCTION 8/19/24

GENERAL NOTES

1. REAR YARD DRAINAGE

All rear yard drainage swales shall be constructed in conjunction with pavement subgrade preparation. No public utilities shall be placed within the drainage and utility easements until the rear yard grading has been approved by the City of Perrysburg. All swales shall be restored after all utilities have been constructed, and then seeded and mulched per the seeding mixture included in the General Notes. Seeding and Mulching shall not be placed without approval of the City of Perrysburg.

2. ROOF DRAINS

Roof drains, foundation drains and all other clean water connections to the sanitary sewer are prohibited.

3. HAUL ROUTES

The Contractor shall maintain these routes in a condition acceptable to the City of Perrysburg during the life of the project. This maintenance includes the removal of mud, stone and other material hauled.

4. INSPECTION

Cost of inspection by the City of Perrysburg and the material samplings and testing shall be paid for by the Developer. Material sampling and testing shall be performed by a testing firm approved by the City of Perrysburg.

5. ROAD NAME SIGNS AND STOP SIGNS

Road name signs and stop signs will be placed by the City of Perrysburg at the expense of the Developer.

6. CURB RAMPS

Curb ramps shall be constructed at all locations where the sidewalk intersects the curb in accordance with the current ODOT Standard Roadway Construction Drawing No. BP-7.1 "Curb Ramps With Truncated Domes". The curb drop at each location shall be installed by the Contractor at the time of curb construction. The walk shall be installed by the Home Builder, unless otherwise noted for installation by the Contractor. All ramps shall be installed by the Contractor.

7. EXISTING SEWERS

The Contractor shall conduct his operations so as to maintain storm sewer flows at all times and shall promptly replace in kind any storm sewers disturbed by construction to the satisfaction of the City of Perrysburg. The cost of making inspections and any repairing or correcting of sewers as a result of construction operations shall be included in the unit price for the pertinent bid item.

8. UNDERGROUND UTILITIES AND ADJUSTMENTS

The location of existing utilities shown on these plans is approximate. The exact location shall be verified by the Contractor. The Contractor shall notify each respective utility company at least seven (7) days prior to the time of construction. Any and all adjustments or extensions required for public or private utilities will be done by and at the expense of their respective owners, unless otherwise noted on the plans.

9. UTILITY OWNERSHIP

The following is a list of the owners of utilities that may be within the limits of construction.

Waterville Gas & Oil 11 N. River Road Waterville, Ohio 43566 Phone: 419-878-4972	AT&T 130 North Erie St. Toledo, Ohio 43604 Phone: 419-245-7023
Buckeye Cablesystem 5566 Southwyck Boulevard Toledo, Ohio 43614 Phone: 419-724-9810	Toledo Edison Company 6099 Angola Road Holland, Ohio 43528 Phone: 419-249-5900
AT&T 1100 Third Avenue Altoona, PA 16602 Phone: 814-940-5856	Ohio Utilities Protection Agency 1-800-362-2764 City of Perrysburg 201 W. Indiana Ave. Perrysburg, Ohio 43551 Phone: 419-872-8050 (WPC Division) Phone: 419-872-8050 (Water Division) Phone: 419-872-8020 (Street Division) Phone: 419-872-7880 (Engineering)

10. SEEDING, MULCHING AND FERTILIZING

All areas within right-of-way lines, the rear yard drainage swales, and the pond area above the aggregate slope protection shall be seeded, mulched and fertilized in accordance with ODOT Item 659 using the seed mixture as follows: 90% perennial ryegrass (lolium perenne) 10% alsike clover (trifolium hybridum). A quantity of 28,880 square yards of Item 659, Seeding & Mulching, has been carried to the General Summary for this work. Seeding & mulching of disturbed areas beyond these limits shall be included in the price bid for the pertinent conduit item.

11. MAINTENANCE OF TRAFFIC

Two-way traffic shall be maintained at all times on dedicated roads. If construction along dedicated roads interferes with traffic, the Contractor shall provide at least two flaggers and other traffic control devices in accordance with the Ohio Manual of Uniform Traffic Control Devices for Streets and Highways.

12. SUBGRADE IMPROVEMENT, UNDERCUT & BACKFILL WITH STONE

A contingency of 1000 cubic yards of subgrade improvement has been carried to the general summary for use as directed by the City of Perrysburg. A minimum undercut shall be 6". Acceptable stone materials will be Number 1 and Number 2 size aggregate and ODOT Item 304 - Aggregate Base. Compaction shall be equal to or exceeding 95% of maximum modified Proctor dry unit weight (ASTM D-1557).

13. UNDERDRAINS

A contingency quantity of 1000 lineal feet of Item 605, 6" Shallow Pipe Underdrains, has been carried to the General Summary for use as directed by the City of Perrysburg. Although the Contractor may choose to order and/or purchase this item for his convenience, only the amount actually placed as directed by the City of Perrysburg will be included for pavement.

14. STAKING RESPONSIBILITY

Construction staking for the project, including the sanitary sewer and waterline, will be the responsibility of Feller, Finch & Associates, Inc. Three (3) days advance notice shall be provided for the requested staking.

15. EXCAVATION AND EMBANKMENT, AS PER PLAN

The price bid for Item 203 Excavation, as per plan and Item 203 Embankment, as per plan shall be full compensation to successfully complete all excavation and embankment operations as indicated on the site grading plan and by the plan cross sections. The Contractor shall accept the plan quantities as determined by the Engineer for payment. The burden of proof for a plan quantity discrepancy shall be on the Contractor. Fill material required to complete the site grading shall be obtained from the excess sewer and waterline trench excavation dirt; and the pond excavation dirt. All excess excavated material shall be placed as directed by the Owner.

The excavated on-site soils that are free of organic matter, excessive moisture, rock or stone fragments larger than three inches in diameter and debris may be used as fill material. Fill material should not be frozen nor be placed on a frozen base. The fill material required to achieve the design elevations should be placed in uniform loose layers of not more than eight (8) inches in thickness. Compaction of embankment areas shall be at least 100% as determined by the Standard Proctor Test. Suitable embankment materials also include ODOT Item 703.11 Type 1.

16. TOLEDO EDISON SERVICE

The Contractor shall provide all labor, materials, and equipment as necessary for installation of the electrical service lines. All work shall be completed per the requirements of Toledo Edison. The Work required generally includes the following:

- a. Provide trenching for installation of the service cable.
- b. Finish grade the ground surface areas for installation of service line pedestals.
- c. Provide the necessary excavation for installation of transformer pads (5'x5'x2'-6" deep)
- d. Provide and install 3" Schedule 40 PVC conduit for installation of the service cable under pavement areas.

The following items and estimated quantities have been included in the General Summary for the items indicated above:

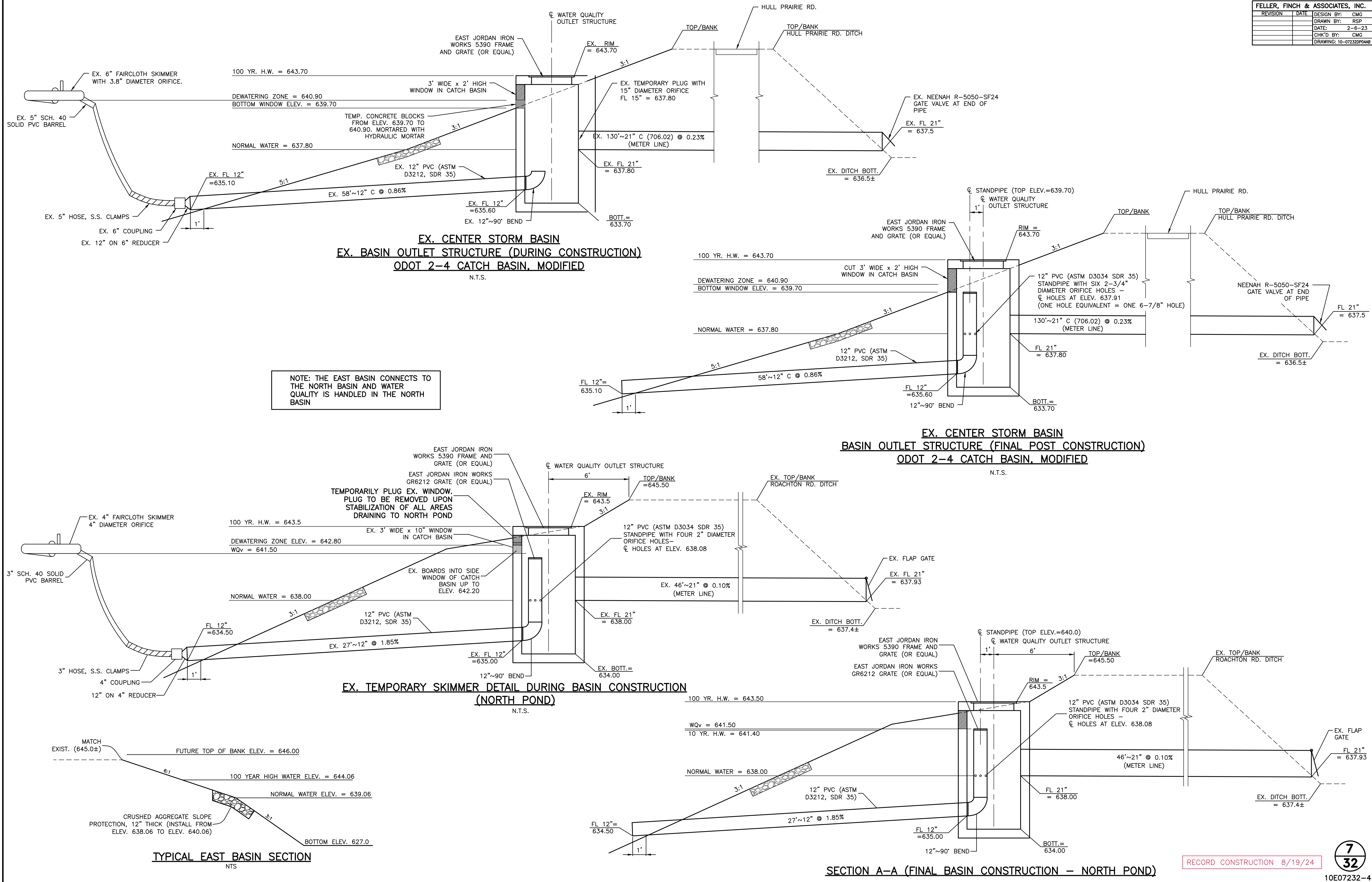
Item	Quantity
Trenching	Feet
Transformer Pads	Each
3" PVC Conduit	Feet

GENERAL SUMMARY

ITEM	QTY.	UNIT	DESCRIPTION
ROADWAY			
201	LUMP	LUMP	CLEARING AND GRUBBING
202	58	FT.	GUARDRAIL REMOVED FOR RE-USE
203	4,098	CU. YDS.	EXCAVATION, AS PER PLAN
203	5,252	CU. YDS.	EMBANKMENT, AS PER PLAN
204	9,286	SQ. YDS.	SUBGRADE COMPACTION
623	8	EACH	MONUMENT ASSEMBLY (O.D.O.T. STD. DWG RM-1.1)
623	23	EACH	MONUMENT ASSEMBLY (WOOD CO. TYPE A)
SPEC	58	FT.	GUARDRAIL REBUILT
608	22,232	SQ. FT.	4" AND 6" CONCRETE WALK (BY OTHERS)
608	1,789	SQ. FT.	4" AND 6" CONCRETE WALK (BY CONTRACTOR)
608	12	EACH	CURB RAMPS (BY OTHERS)
PAVEMENT			
304	2,605	CU. YDS.	AGGREGATE BASE
407	408	GALLONS	TACK COAT
441	515	CU. YDS.	ASPHALT CONCRETE, INTERMEDIATE COURSE, TYPE 2 (449)
441	345	CU. YDS.	ASPHALT CONCRETE, SURFACE COURSE, TYPE 1 (449) PG 64-22
609	4,799	FT.	MOUNTABLE CURB AND GUTTER, WOOD COUNTY TYPE F
609	311	FT.	CONCRETE CURB, WOOD COUNTY TYPE A
SPEC.	500	CU. YDS.	SUBGRADE IMPROVEMENT, AS PER PLAN (CONTINGENCY)
DRAINAGE			
611	59	FT.	12" CONDUIT, TYPE B
611	111	FT.	15" CONDUIT, TYPE B
611	37	FT.	18" CONDUIT, TYPE B
611	5	FT.	21" CONDUIT, TYPE B
611	78	FT.	27" CONDUIT, TYPE B
611	44	FT.	48" CONDUIT, TYPE B
611	709	FT.	6" CONDUIT, TYPE C
611	1,018	FT.	12" CONDUIT, TYPE C
611	951	FT.	15" CONDUIT, TYPE C
611	349	FT.	18" CONDUIT, TYPE C
611	193	FT.	21" CONDUIT, TYPE C
611	391	FT.	27" CONDUIT, TYPE C
611	607	FT.	36" CONDUIT, TYPE C
611	66	FT.	42" CONDUIT, TYPE C
611	348	FT.	48" CONDUIT, TYPE C
611	3	EACH	SHALLOW STORM MANHOLE (4' DIAMETER)
611	1	EACH	SHALLOW STORM MANHOLE (5' DIAMETER)
611	1	EACH	SHALLOW STORM MANHOLE (6' DIAMETER)
611	3	EACH	TRANSITION MANHOLE (7' DIAMETER)
611	12	EACH	CURB INLET
611	4	EACH	YARD BASIN
611	2	EACH	ODOT 2-4 CATCH BASIN
611	1	EACH	ODOT 2-3 CATCH BASIN
611	9	EACH	ODOT 2-3 CATCH BASIN, MODIFIED, AS PER PLAN
605	1,000	FT.	6" SHALLOW PIPE UNDERDRAINS, AS PER PLAN (CONTINGENCY)
MISCELLANEOUS			
614	LUMP	LUMP	MAINTAINING TRAFFIC
SPEC.	-	FT.	TRENCHING (FOR ELECTRIC SERVICE)
SPEC.	-	EACH	TRANSFORMER PADS (FOR ELECTRIC SERVICE)
SPEC.	-	FT.	3" PVC CONDUIT (FOR ELECTRIC SERVICE)
EROSION CONTROL			
832	24	EACH	INLET PROTECTION FILTER (OR APPROVED EQUAL)
832	3,728	FT.	FILTER FABRIC FENCE
832	12	EACH	CURB INLET SEDIMENT FILTER
832	1	EACH	GRAVEL CONSTRUCTION ENTRANCE
832	71,937	SQ. YDS.	CONSTRUCTION SEEDING & MULCHING (LOT AREAS - BY OTHERS)
659	8,682	SQ. YDS	SEEDING & MULCHING (R/W)
659	0.78	TONS	COMMERCIAL FERTILIZER (12-12-12) (20 LBS./1000 SQ. FT.)
SIGNING AND STRIPING			
630	15.5	SQ. FT.	SIGN, FLAT SHEET, TYPE G
630	9.0	SQ. FT.	SIGN, FLAT SHEET, TYPE STD.
630	107.75	FT.	GROUND MOUNTED SUPPORT NO. 3 POST

FELLER, FINCH & ASSOCIATES, INC.			
REVISION	DATE	DESIGN BY:	CMG
1/14/24	9/13/24	DRAWN BY:	RSP
		DATE:	2-6-23
		CHK'D BY:	CMG
		DRAWING:	10-07232DP0408

FELLER, FINCH & ASSOCIATES, INC.			
REVISION	DATE	DESIGN BY:	CMG
		DRAWN BY:	RSP
		DATE:	2-6-23
		CHK'D BY:	CMG
		DRAWING:	10-0732DP0408





EASEMENT ABBREVIATIONS
D.E.....DRAINAGE EASEMENT
U.T.E.....UTILITY & TOLEDO EDISON EASEMENT

SITE ZONING DATA
LOCATION: CITY OF PERRYSBURG
ZONING CLASSIFICATION: R-4
MINIMUM SETBACKS:
FRONT - 35'
SIDE - 6' MIN.
SUM OF SIDES - 16'
REAR - 30'

BENCH MARK DATA

WOOD COUNTY BENCH MARK

WOOD CO. BENCH MARK BRASS DISC IN
NORTHWEST HEADWALL 300'± WEST OF HULL
PRAIRIE ROAD & ROACHTON ROAD
INTERSECTION.

ELEVATION 644.05

SITE BENCH MARK #204

SET MAG NAIL NORTH FACE OF P & T POLE AT
SOUTHEAST CORNER OF ROACHTON ROAD AND
HULL PRAIRIE ROAD.

ELEVATION 644.06

SITE BENCH MARK #208

SET MAG NAIL NORTH FACE OF 13TH P & T
POLE EAST OF HULL PRAIRIE ROAD ON SOUTH
SIDE OF ROACHTON ROAD.

ELEVATION 645.53

LEGEND

EXISTING GROUND ELEVATIONS.....+000.00
EXISTING CONTOURS.....+000
PROPOSED ELEVATIONS.....(00.0)
PROPOSED ELEVATIONS AT HOUSE.....(00.0)
PROPOSED RIM ELEVATION.....(00.0R)
PROPOSED = EXISTING.....(00.0E)

ADD 600.00 TO ALL PROPOSED SPOT ELEVATIONS.
ALL PAVEMENT GRADES ARE TOP OF CURB.

- = IRON PIPE (BY SURVEYOR)
- ⊕ = MONUMENT ASSEMBLY (ODOT RM-1.1) BY CONTRACTOR
- ⊗ = MONUMENT ASSEMBLY (WOOD CO. TYPE A) BY SURVEYOR
- ⊗ = EXISTING MONUMENT ASSEMBLY (WOOD CO. TYPE A)

■ = 5' CONCRETE WALK BY CONTRACTOR
■ = 5' CONCRETE WALK & RAMPS BY OTHERS

① STREET SIGN LOCATION. SEE THIS
SHEET FOR STREET SIGN DATA TABLE.

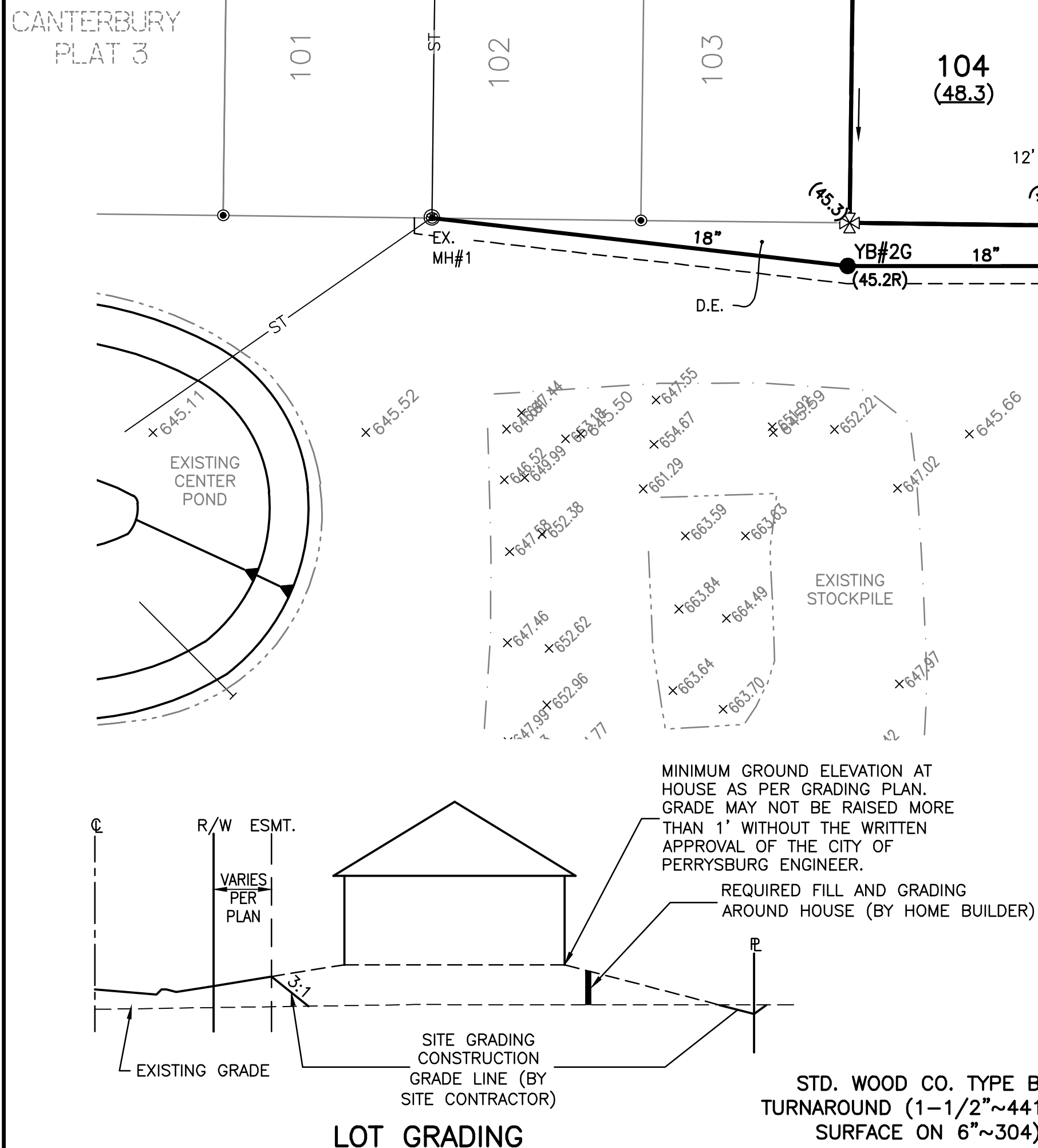
STREET SIGN DATA

LOCATION	STATION	SIDE	① PROPOSED "STREET NAME" SIGN PERRYSBURG STANDARD	② PROPOSED R1-1-30 STOP (30" X 30")	③ PROPOSED W14-2-30 NO OUTLET (TEMPORARY) (24" X 30")	④ PROPOSED R7-1 NO PARKING ANYTIME W/ 1 WAY ARROW (12" X 18")	⑤ PROPOSED R7-1 NO PARKING ANYTIME W/ 2 WAY ARROW (12" X 18")	⑥ PROPOSED R7-1 NO PARKING ANYTIME W/ 1 WAY ARROW (12" X 18")
CATHEDRAL COURT	14+29	LT.						1 (1.50 SF)
CATHEDRAL COURT	15+33	RT.					1 (1.50 SF)	
CATHEDRAL COURT	14+35	RT.				1 (1.50 SF)		
CATHEDRAL COURT	10+38	LT.		1 (6.25 SF)				
WELLINGTON PLACE	5+85.41	RT.	WELLINGTON PLACE CATHEDRAL COURT					
WELLINGTON PLACE	10+87	RT.		1 (1.50 SF)				
OLD DOVER ROAD	28+90	RT.		1 (1.50 SF)				
ELLESMERE DRIVE	48+21	RT.		1 (6.25 SF)				
OLD DOVER ROAD	29+96.28	LT.	OLD DOVER ROAD ELLESMERE DRIVE					
OLD DOVER ROAD	33+00	RT.				1 (1.50 SF)		
ELLESMERE DRIVE	45+00	LT.				1 (1.50 SF)		
WELLINGTON PLACE	7+00	RT.				1 (1.50 SF)		
TOTAL				2 (12.50 SF)	2 (3.0 SF)	4 (6.00 SF)	1 (1.50 SF)	1 (1.50 SF)

RECORD CONSTRUCTION 8/19/24

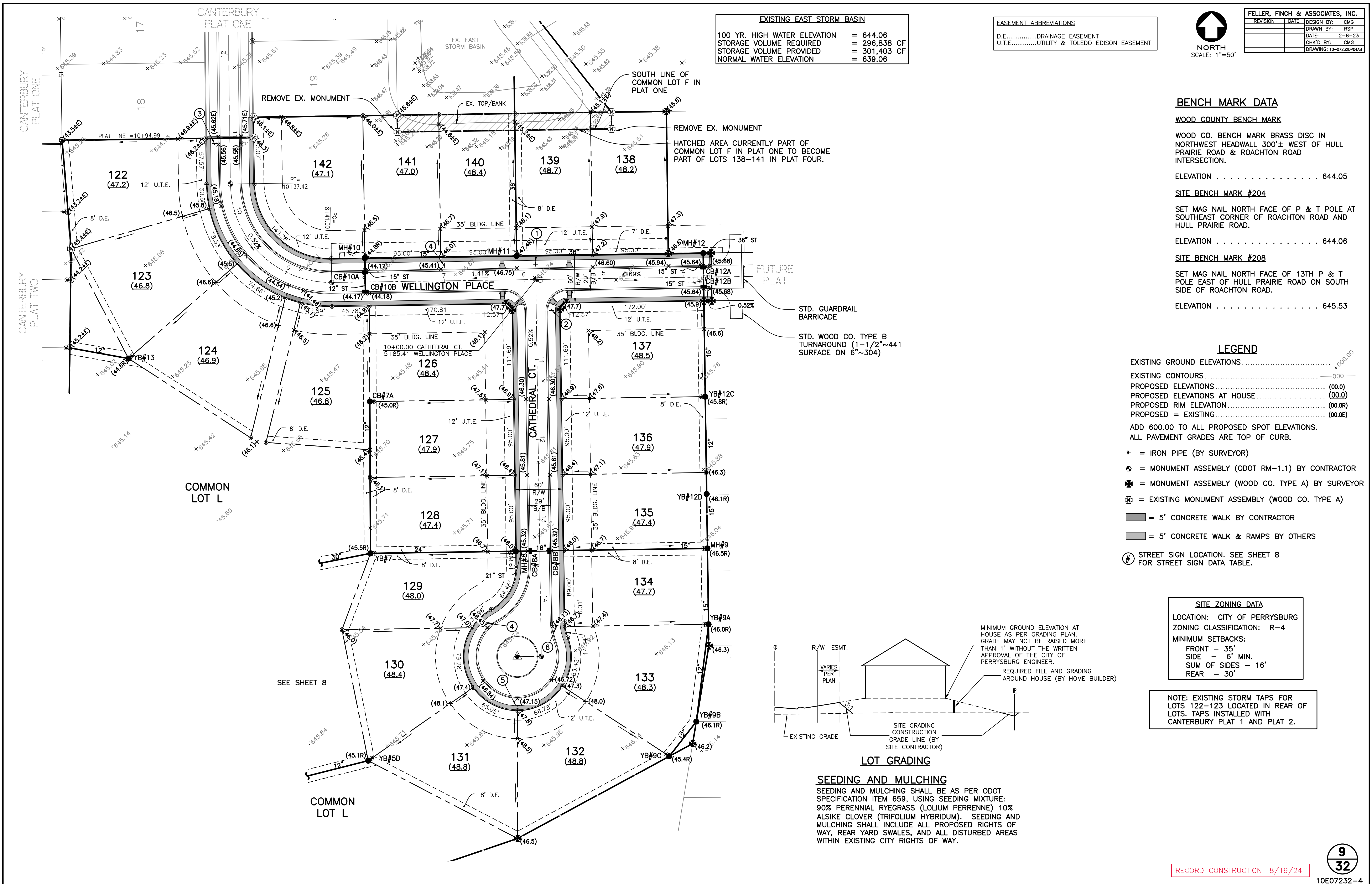
SITE VOLUME TABLE (UNADJUSTED)			
	CUT (C) (CU. YDS.)	FILL (F) (CU. YDS.)	NET (CU. YDS.)
ROADWAY	3,848	5,002	1,154.0 (F)
TOP SOIL	250	250	0.0 (-)
TOTALS	4,098	5,252	1,154.0 (F)

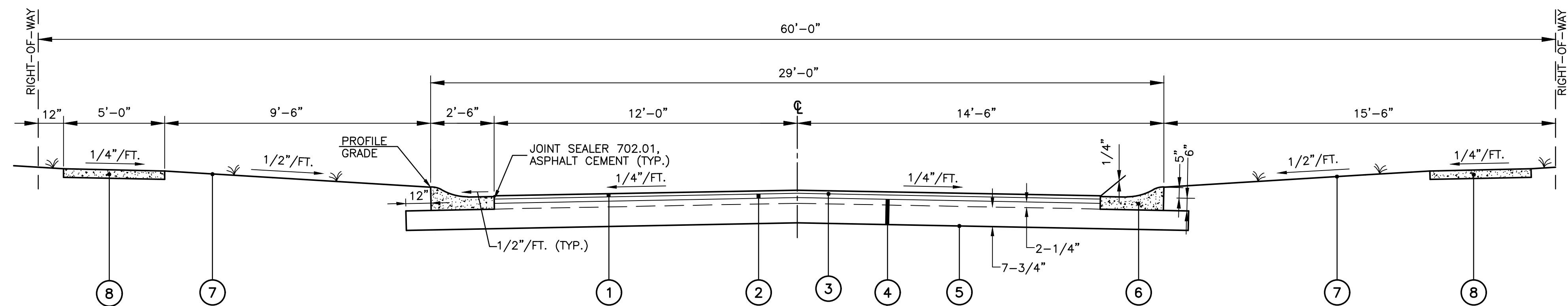
- TOPSOIL QUANTITIES ARE BASED ON A TOPSOIL THICKNESS OF 8".
- FILL TO BE OBTAINED FROM EX. STOCKPILE



SEEDING AND MULCHING

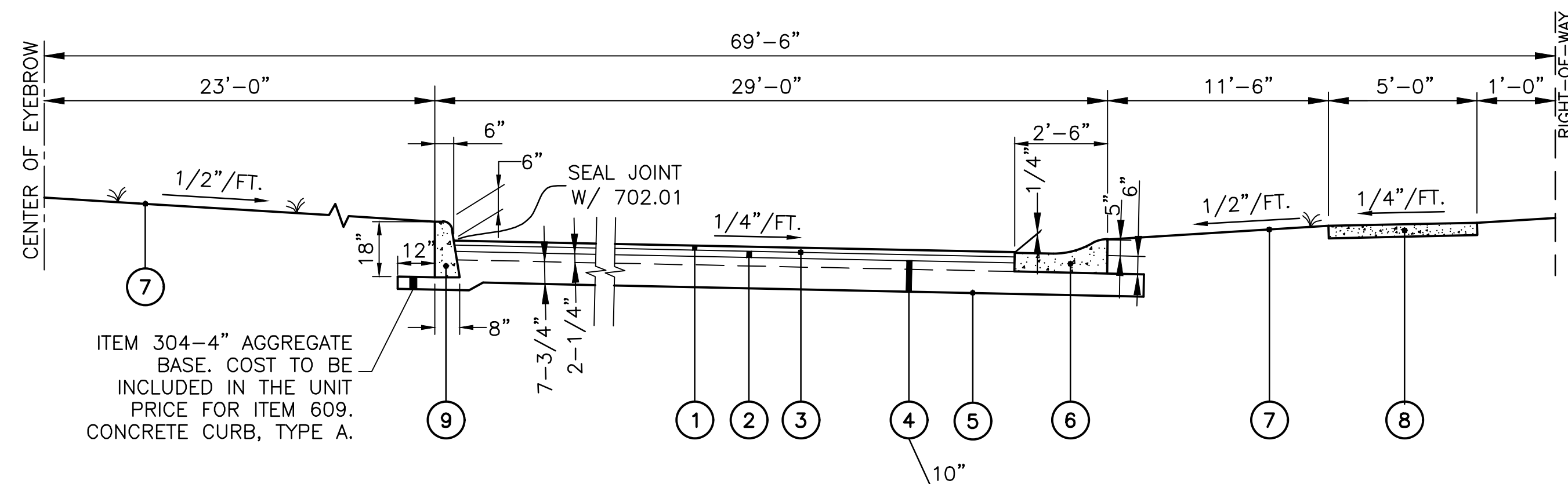
SEEDING AND MULCHING SHALL BE AS PER ODOT SPECIFICATION ITEM 659, USING SEEDING MIXTURE: 90% PERENNIAL RYEGRASS (LOLIUM PERRENNE) 10% ALSIKE CLOVER (TRIFOLIUM HYBRIDUM). SEEDING AND MULCHING SHALL INCLUDE ALL PROPOSED RIGHTS OF WAY, REAR YARD SWALES, AND ALL DISTURBED AREAS WITHIN EXISTING CITY RIGHTS OF WAY.





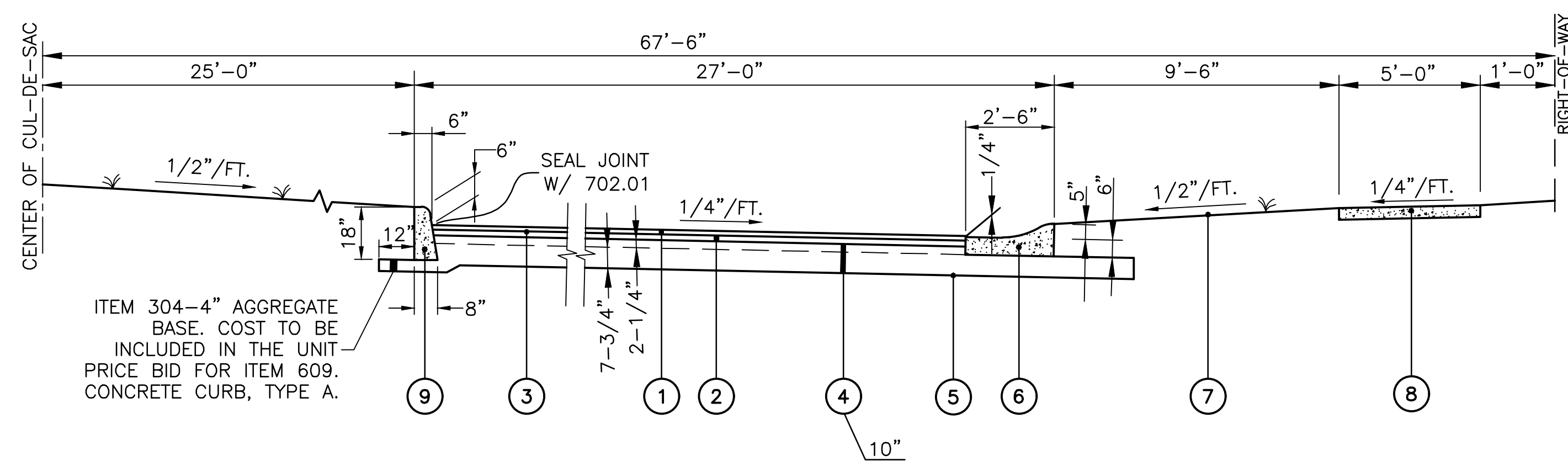
CATHEDRAL CT. STA. 10+39.50 TO STA. 13+59.49 = 319.99 LIN. FT.
ELLESMERE DR. STA. 43+55.28 TO STA. 48+19.56 = 464.28 LIN. FT.
OLD DOVER RD. STA. 28+90 TO STA. 29+58.01 = 68.01 LIN. FT.
STA. 30+37.05 TO STA. 32+38.67 = 201.62 LIN. FT.
STA. 33+96.44 TO STA. 35+26.44 = 130.00 LIN. FT.
WELLINGTON PL. STA. 3+67.41 TO STA. 5+45.91 = 178.50 LIN. FT.
STA. 6+24.91 TO STA. 10+87 = 462.09 LIN. FT.
TOTAL = 1824.49 LIN. FT.

TYPICAL ROAD SECTION
N.T.S.



ITEM 304-4" AGGREGATE
BASE. COST TO BE
INCLUDED IN THE UNIT
PRICE FOR ITEM 609.
CONCRETE CURB, TYPE A.

TYPICAL HALF EYEBROW SECTION
N.T.S.

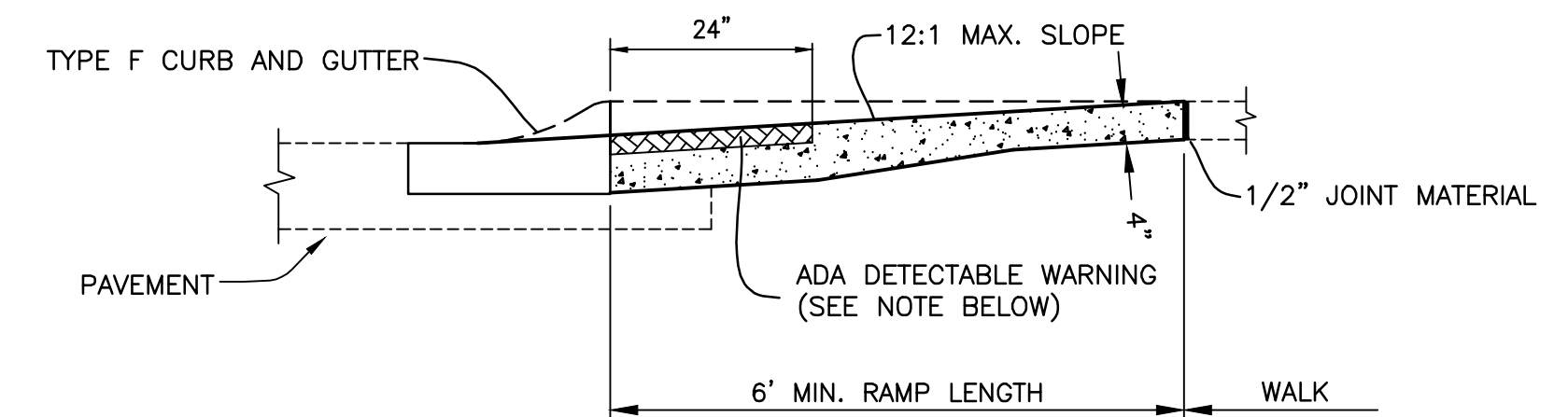


ITEM 304-4" AGGREGATE
BASE. COST TO BE
INCLUDED IN THE UNIT
PRICE BID FOR ITEM 609.
CONCRETE CURB, TYPE A.

TYPICAL HALF CUL-DE-SAC SECTION
NTS

TYPICAL SECTION LEGEND

- | | | |
|---|----------|--|
| 1 | ITEM 448 | 1-1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG 64-22 |
| 2 | ITEM 448 | 2-1/2" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG 64-22 |
| 3 | ITEM 407 | TACK COAT @ 0.055 GAL./SQ. YD. |
| 4 | ITEM 304 | AGGREGATE BASE, AS PER PLAN (2 COURSES) |
| 5 | ITEM 204 | SUBGRADE COMPACTION |
| 6 | ITEM 609 | MOUNTABLE CURB AND GUTTER, WOOD CO. TYPE F |
| 7 | ITEM 659 | SEEDING AND MULCHING; COMMERCIAL FERTILIZER (20 LBS. PER 1000 SQ. FT.) |
| 8 | ITEM 608 | 4" CONCRETE WALK, 6" AT DRIVES (BY OTHERS) |
| 9 | ITEM 609 | CONCRETE CURB, WOOD COUNTY TYPE A |



PEDESTRIAN RAMP DETAIL
(PER ODOT STANDARD DRAWING BP-7.1)

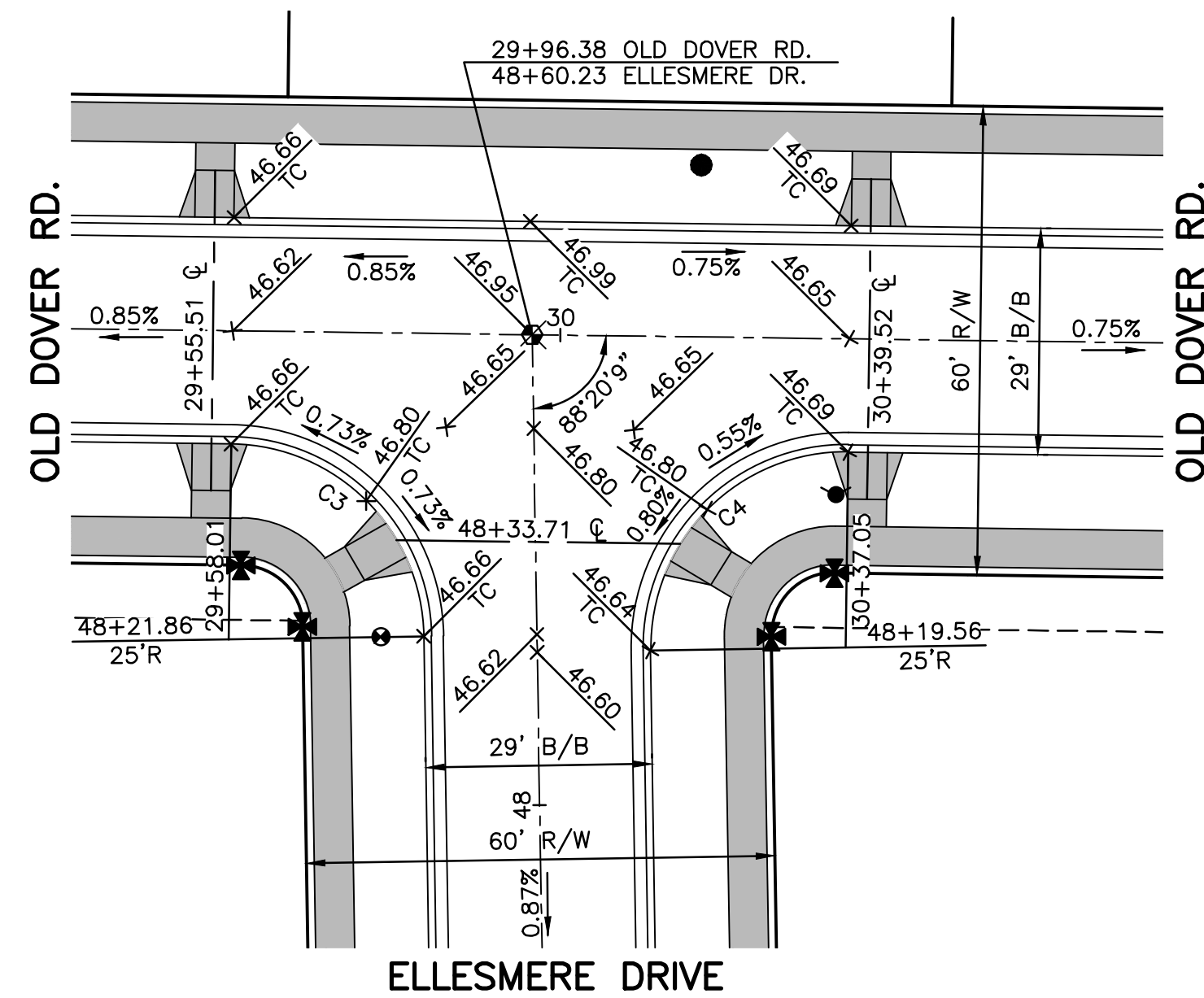
ADA DETECTABLE WARNING

THE CONTRACTOR SHALL INSTALL DETECTABLE WARNINGS ON WALKING SURFACES OF EACH CURB RAMP ACCORDING TO SECTION 4.29.2 OF THE ADA ACCESSIBILITY GUIDELINES FOR BUILDING AND FACILITIES. DETECTABLE WARNINGS SHALL BE 2' X 4' AND BE INSTALLED AGAINST THE BACK OF CURB. THE DETECTABLE WARNINGS SHALL BE SURFACE APPLIED ONE PIECE PRE-MANUFACTURED TACTILE WARNING DEVICES INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS. THE MANUFACTURER, MATERIAL AND COLOR IS TO BE APPROVED BY THE CITY OF PERRYSBURG.

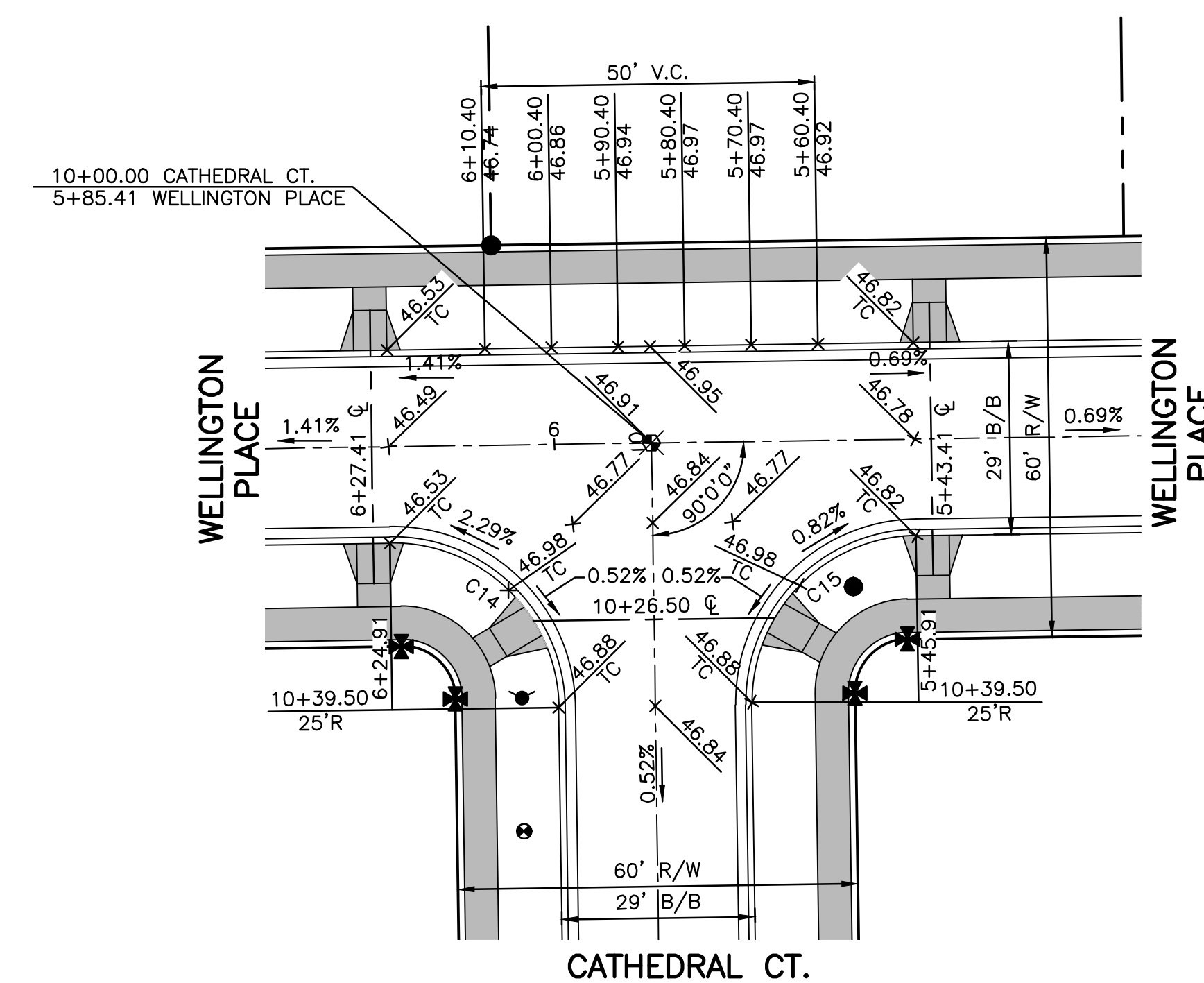
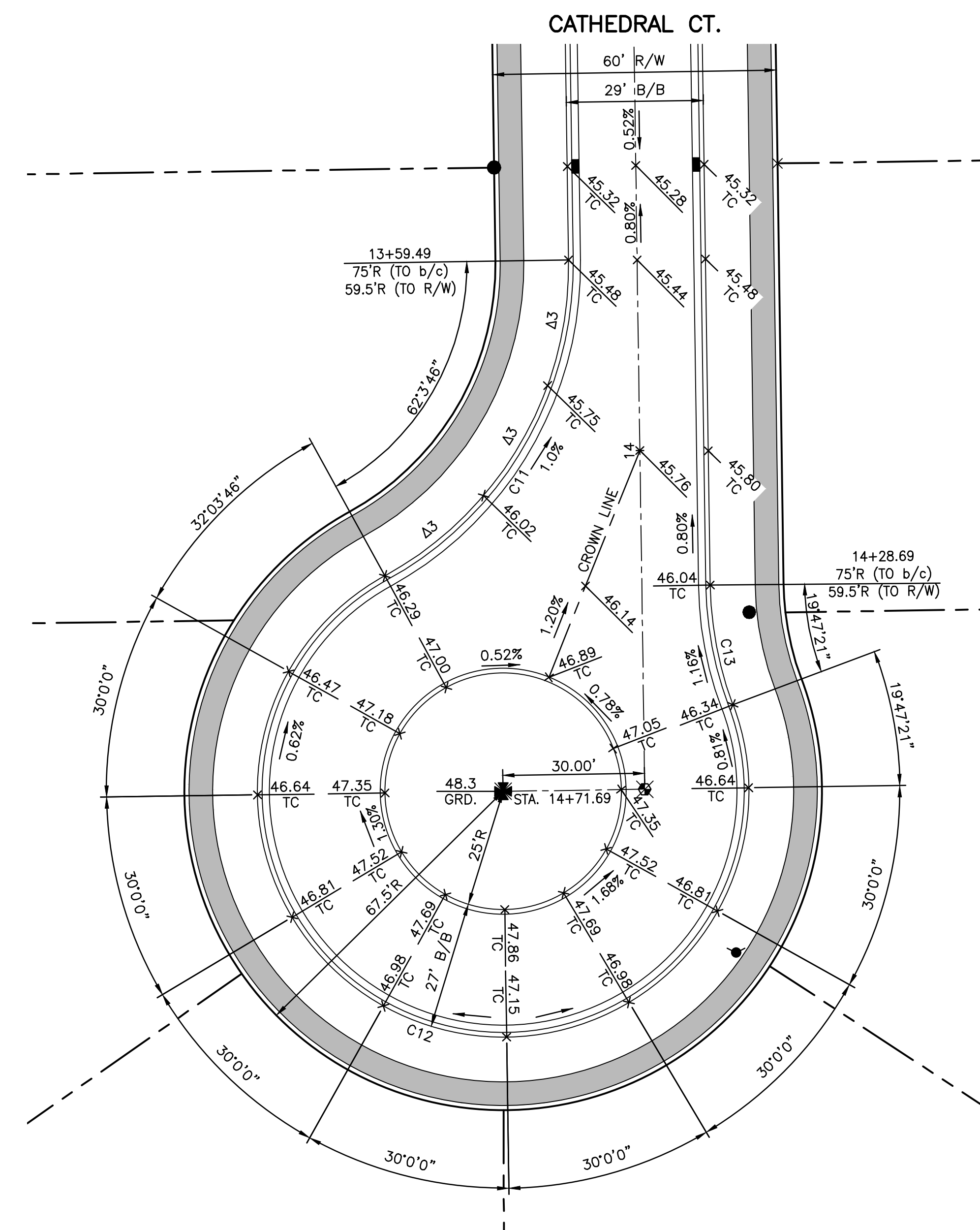
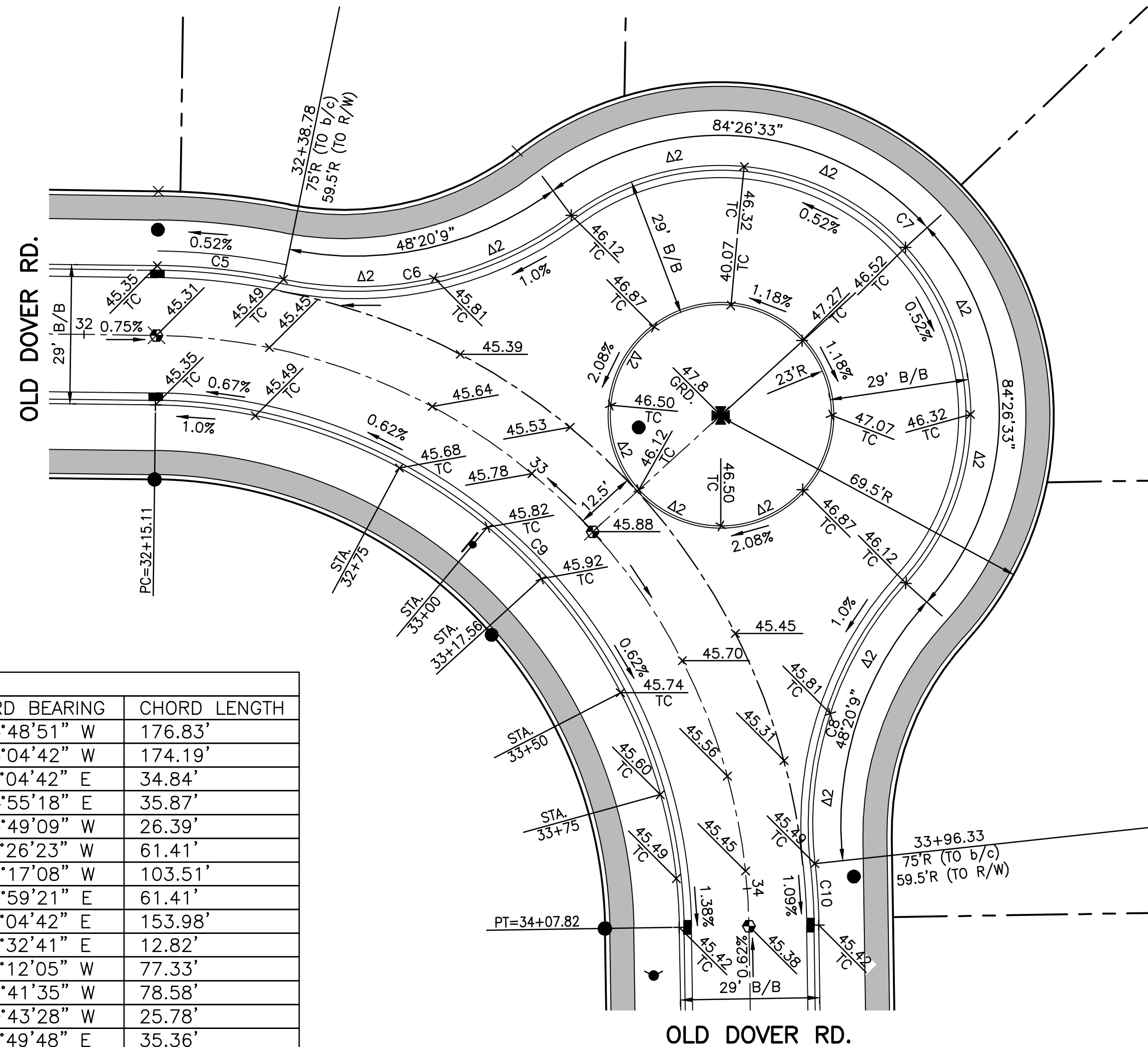
RECORD CONSTRUCTION 8/19/24



FELLER, FINCH & ASSOCIATES, INC.			
REVISION	DATE	DESIGN BY:	CMG
		DRAWN BY:	RSP
		DATE:	2-6-23
		CHK'D BY:	CMG
		DRAWING:	10-07332DP0408



CURVE DATA					
CURVE	ARC LENGTH	RADIUS	CENTRAL ANGLE	CHORD BEARING	CHORD LENGTH
C1	196.42'	125.00'	90°01'53"	N 45°48'51" W	176.83'
C2	192.72'	125.00'	88°20'09"	N 45°04'42" W	174.19'
C3	38.54'	25.00'	88°20'09"	S 45°04'42" E	34.84'
C4	40.00'	25.00'	91°39'51"	N 44°55'18" E	35.87'
C5	26.43'	139.50'	10°51'14"	N 83°49'09" W	26.39'
C6	63.27'	75.00'	48°20'09"	S 77°26'23" W	61.41'
C7	153.28'	52.00'	168°53'07"	N 42°17'08" W	103.51'
C8	63.27'	75.00'	48°20'09"	N 17°59'21" E	61.41'
C9	170.36'	110.50'	88°20'09"	S 45°04'42" E	153.98'
C10	12.83'	139.50'	5°16'05"	S 03°32'41" E	12.82'
C11	81.24'	75.00'	62°03'46"	S 30°12'05" W	77.33'
C12	237.65'	52.00'	261°51'07"	N 69°41'35" W	78.58'
C13	25.90'	75.00'	19°47'21"	N 10°43'28" W	25.78'
C14	39.27'	25.00'	90°00'00"	S 45°49'48" E	35.36'
C15	39.27'	25.00'	90°00'00"	N 44°10'12" E	35.36'



RECORD CONSTRUCTION 8/19/24

STORM SERVICE TAP DATA

LOT 111
0+00, (34+88.48, 155.99' RT.)
14'~6" C @ 1.0%
FL 6" = 641.86

LOT 112
0+00, (34+83.48, 155.99' RT.)
14'~6" C @ 1.0%
FL 6" = 642.18

LOT 113
0+00, (34+16.38, 180' LT.)
14'~6" C @ 1.0%
FL 6" = 641.33

LOT 114
0+00, (34+03.22, 180' LT.)
14'~6" C @ 1.0%
FL 6" = 641.33

LOT 115
0+00, (33+18.95, 255.56' LT.)
14'~6" C @ 1.0%
FL 6" = 641.59

LOT 116
0+00, (33+12.44, 255.35' LT.)
14'~6" C @ 1.0%
FL 6" = 641.59

LOT 117
0+00, (32+21.05±, 180.45± LT.)
EX. 14'~6" C @ 1.0%
EX. FL 6" = 642.54±

LOT 118
0+00, (32+09.82±, 180.10± LT.)
EX. 14'~6" C @ 1.0%
EX. FL 6" = 642.54±

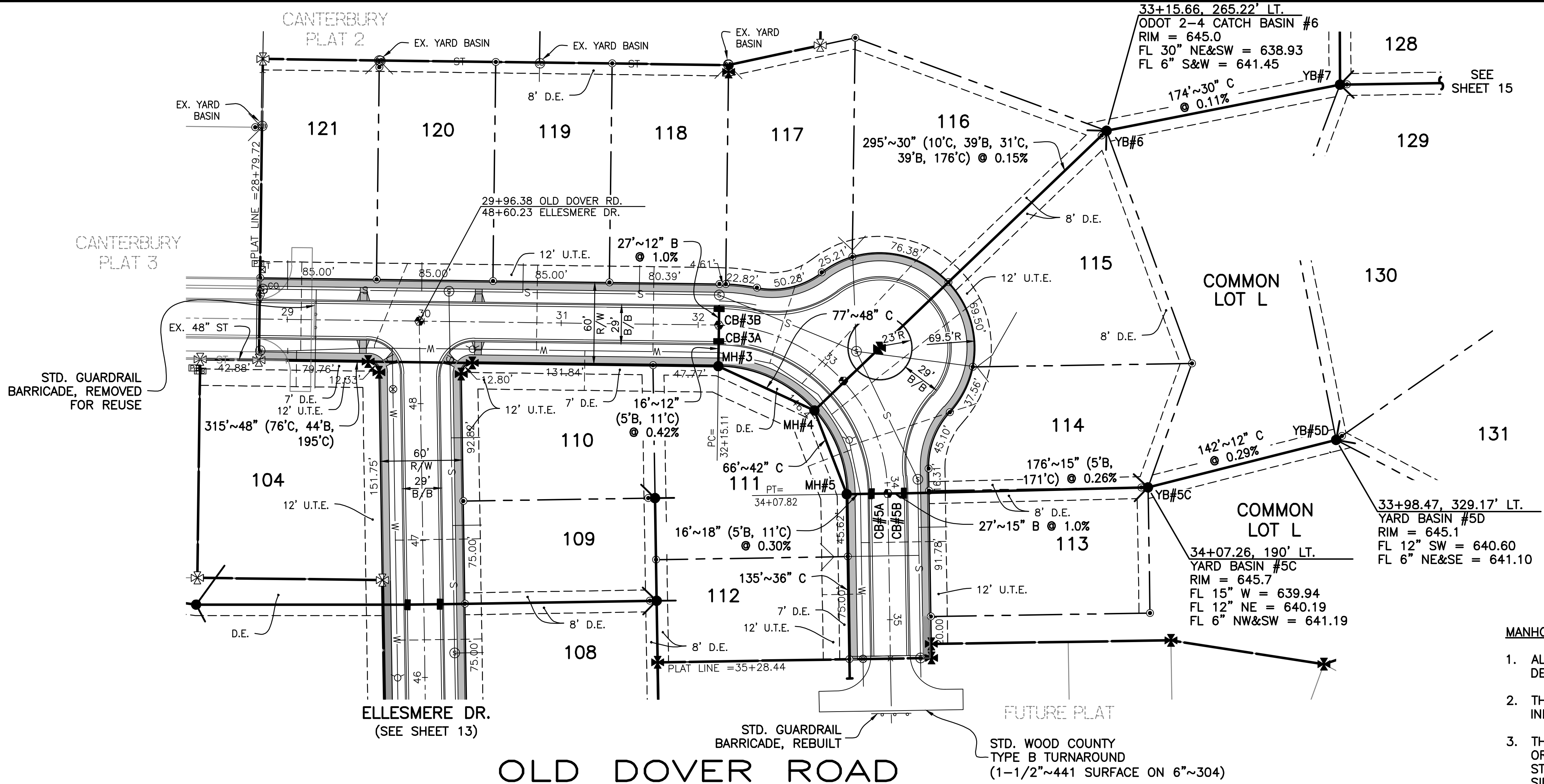
LOT 119
0+00, (30+81.72±, 176.00± LT.)
EX. 14'~6" C @ 1.0%
EX. FL 6" = 642.26±

LOT 120
0+00, (29+74.62±, 180.10± LT.)
EX. 14'~6" C @ 1.0%
EX. FL 6" = 642.54±

LOT 121
0+00, (29+54.82±, 180.10± LT.)
EX. 14'~6" C @ 1.0%
EX. FL 6" = 642.54±

LOT 130
0+00, (33+94.78, 333.07' LT.)
14'~6" C @ 1.0%
FL 6" = 641.24

LOT 131
0+00, (33+99.46, 342.69' LT.)
14'~6" C @ 1.0%
FL 6" = 641.24



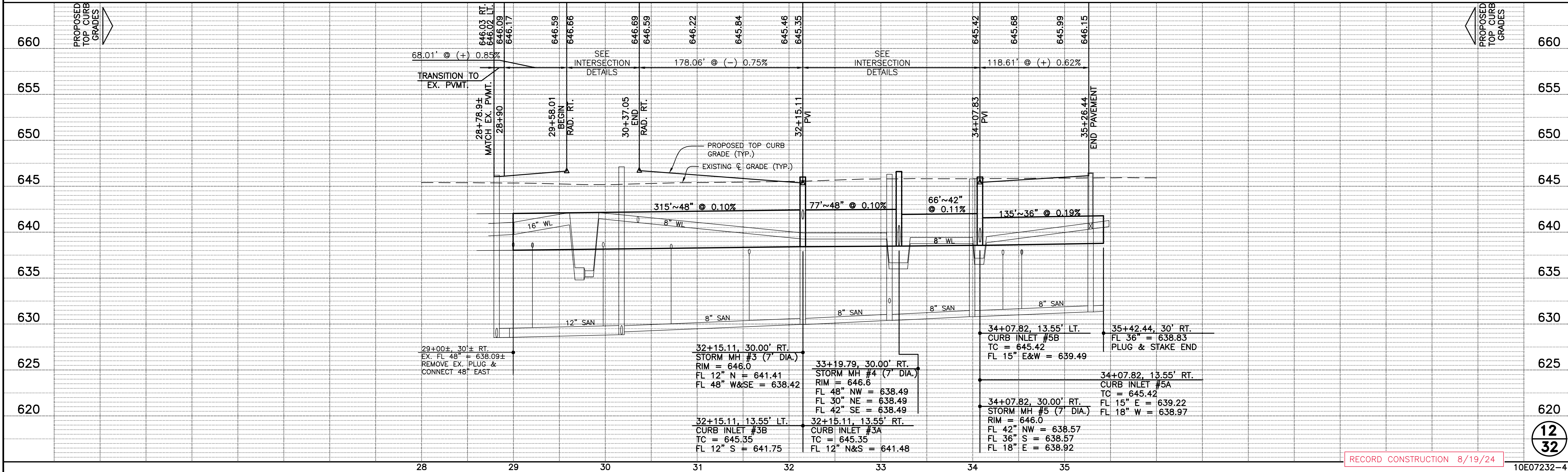
FELLER, FINCH & ASSOCIATES, INC.

REVISION	DATE	DESIGN BY:	CMG
		DRAWN BY:	RSP
		DATE:	2-6-23
		CHK'D BY:	CMG
		DRAWING:	10-07320P0408

EASEMENT ABBREVIATIONS

D.E.....DRAINAGE EASEMENT
U.T.E.....UTILITY & TOLEDO EDISON EASEMENT

- MANHOLE NOTES:**
- ALL STORM MANHOLES SHALL BE PER THE DETAILS ON SHEET 5.
 - THE DIAMETER ON THE MANHOLES SHALL BE AS INDICATED IN THE PROFILE BELOW.
 - THE FLAT SLAB TOP OF THE MANHOLES SHALL BE ORIENTED TO PLACE THE LID AWAY FROM THE STREET CENTERLINE & OUT OF THE PROPOSED SIDEWALK.

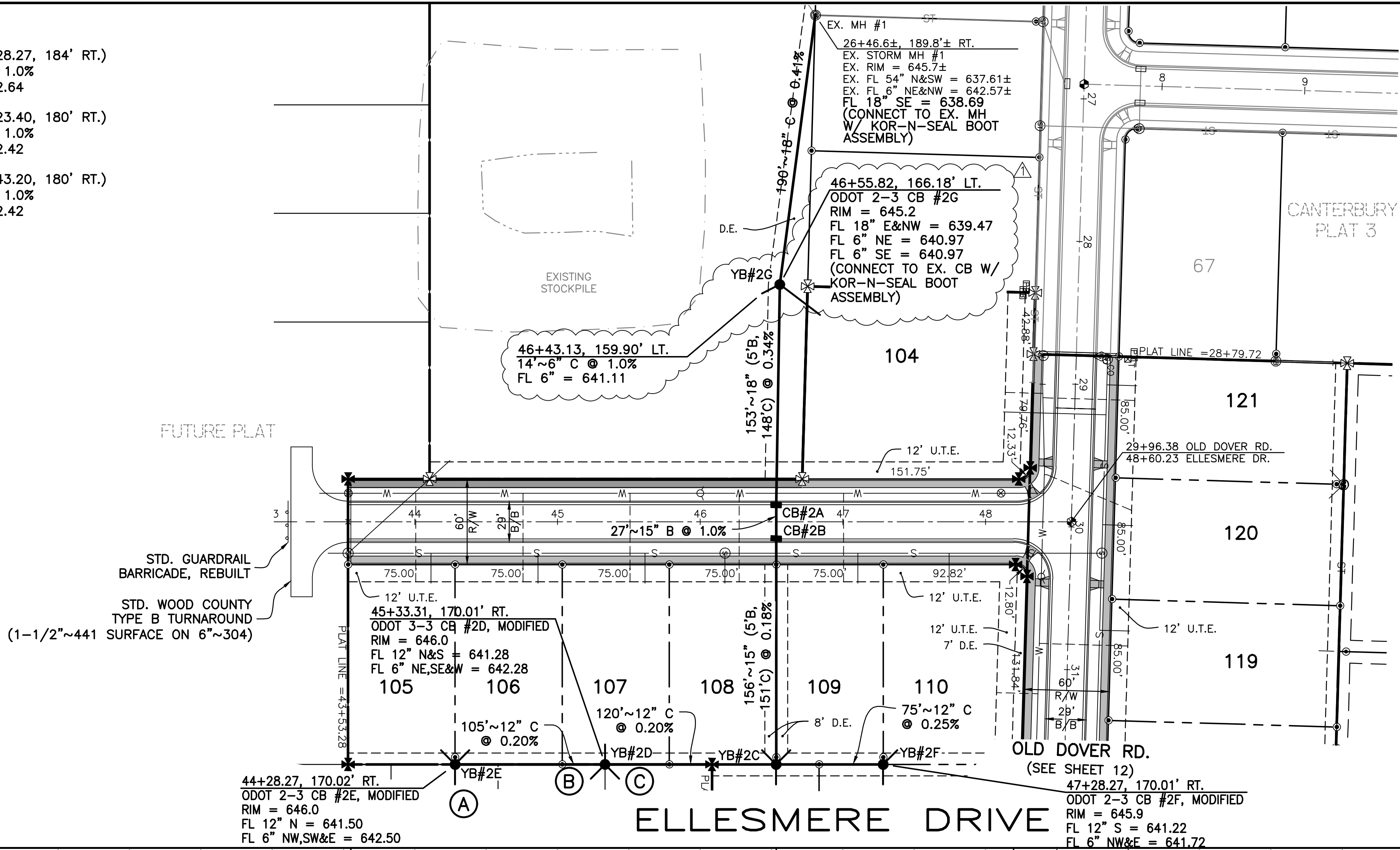


RECORD CONSTRUCTION 8/19/24

10E07232-4

STORM SERVICE TAP DATA

- LOT 104
0+00, (46+84, 145' LT.)
35'~6" C @ 1.0%
FL 6" = 641.32
- LOT 105
0+00, (44+18.38, 160' RT.)
14'~6" C @ 1.0%
FL 6" = 642.64
- LOT 106
0+00, (44+38.18, 160' RT.)
14'~6" C @ 1.0%
FL 6" = 642.64
- LOT 107
0+00, (45+33.32, 156' RT.)
14'~6" C @ 1.0%
FL 6" = 642.42
- LOT 108
0+00, (46+43.37, 160' RT.)
14'~6" C @ 1.0%
FL 6" = 642.18
- LOT 109
0+00, (46+63.17, 160' RT.)
14'~6" C @ 1.0%
FL 6" = 642.18
- LOT 110
0+00, (47+38.18, 160' RT.)
14'~6" C @ 1.0%
FL 6" = 641.86
- (A) 0+00, (44+28.27, 184' RT.)
14'~6" C @ 1.0%
FL 6" = 642.64
- (B) 0+00, (45+23.40, 180' RT.)
14'~6" C @ 1.0%
FL 6" = 642.42
- (C) 0+00, (45+43.20, 180' RT.)
14'~6" C @ 1.0%
FL 6" = 642.42



FELLER, FINCH & ASSOCIATES, INC.

REVISION	DATE	DESIGN BY:
1	10/13/24	CMG
2	10/13/24	RSP
3	10/13/24	CMG
4	10/13/24	CMG
5	10/13/24	CMG
6	10/13/24	CMG
7	10/13/24	CMG
8	10/13/24	CMG
9	10/13/24	CMG
10	10/13/24	CMG
11	10/13/24	CMG
12	10/13/24	CMG
13	10/13/24	CMG
14	10/13/24	CMG
15	10/13/24	CMG
16	10/13/24	CMG
17	10/13/24	CMG
18	10/13/24	CMG
19	10/13/24	CMG
20	10/13/24	CMG
21	10/13/24	CMG
22	10/13/24	CMG
23	10/13/24	CMG
24	10/13/24	CMG
25	10/13/24	CMG
26	10/13/24	CMG
27	10/13/24	CMG
28	10/13/24	CMG
29	10/13/24	CMG
30	10/13/24	CMG
31	10/13/24	CMG
32	10/13/24	CMG
33	10/13/24	CMG
34	10/13/24	CMG
35	10/13/24	CMG
36	10/13/24	CMG
37	10/13/24	CMG
38	10/13/24	CMG
39	10/13/24	CMG
40	10/13/24	CMG
41	10/13/24	CMG
42	10/13/24	CMG
43	10/13/24	CMG
44	10/13/24	CMG
45	10/13/24	CMG
46	10/13/24	CMG
47	10/13/24	CMG
48	10/13/24	CMG
49	10/13/24	CMG
50	10/13/24	CMG
51	10/13/24	CMG
52	10/13/24	CMG
53	10/13/24	CMG
54	10/13/24	CMG
55	10/13/24	CMG
56	10/13/24	CMG
57	10/13/24	CMG
58	10/13/24	CMG
59	10/13/24	CMG
60	10/13/24	CMG
61	10/13/24	CMG
62	10/13/24	CMG
63	10/13/24	CMG
64	10/13/24	CMG
65	10/13/24	CMG
66	10/13/24	CMG
67	10/13/24	CMG
68	10/13/24	CMG
69	10/13/24	CMG
70	10/13/24	CMG
71	10/13/24	CMG
72	10/13/24	CMG
73	10/13/24	CMG
74	10/13/24	CMG
75	10/13/24	CMG
76	10/13/24	CMG
77	10/13/24	CMG
78	10/13/24	CMG
79	10/13/24	CMG
80	10/13/24	CMG
81	10/13/24	CMG
82	10/13/24	CMG
83	10/13/24	CMG
84	10/13/24	CMG
85	10/13/24	CMG
86	10/13/24	CMG
87	10/13/24	CMG
88	10/13/24	CMG
89	10/13/24	CMG
90	10/13/24	CMG
91	10/13/24	CMG
92	10/13/24	CMG
93	10/13/24	CMG
94	10/13/24	CMG
95	10/13/24	CMG
96	10/13/24	CMG
97	10/13/24	CMG
98	10/13/24	CMG
99	10/13/24	CMG
100	10/13/24	CMG
101	10/13/24	CMG
102	10/13/24	CMG
103	10/13/24	CMG
104	10/13/24	CMG
105	10/13/24	CMG
106	10/13/24	CMG
107	10/13/24	CMG
108	10/13/24	CMG
109	10/13/24	CMG
110	10/13/24	CMG
111	10/13/24	CMG
112	10/13/24	CMG
113	10/13/24	CMG
114	10/13/24	CMG
115	10/13/24	CMG
116	10/13/24	CMG
117	10/13/24	CMG
118	10/13/24	CMG
119	10/13/24	CMG
120	10/13/24	CMG
121	10/13/24	CMG
122	10/13/24	CMG
123	10/13/24	CMG
124	10/13/24	CMG
125	10/13/24	CMG
126	10/13/24	CMG
127	10/13/24	CMG
128	10/13/24	CMG
129	10/13/24	CMG
130	10/13/24	CMG
131	10/13/24	CMG
132	10/13/24	CMG
133	10/13/24	CMG
134	10/13/24	CMG
135	10/13/24	CMG
136	10/13/24	CMG
137	10/13/24	CMG
138	10/13/24	CMG
139	10/13/24	CMG
140	10/13/24	CMG
141	10/13/24	CMG
142	10/13/24	CMG
143	10/13/24	CMG
144	10/13/24	CMG
145	10/13/24	CMG
146	10/13/24	CMG
147	10/13/24	CMG
148	10/13/24	CMG
149	10/13/24	CMG
150	10/13/24	CMG
151	10/13/24	CMG
152	10/13/24	CMG
153	10/13/24	CMG
154	10/13/24	CMG
155	10/13/24	CMG
156	10/13/24	CMG
157	10/13/24	CMG
158	10/13/24	CMG
159	10/13/24	CMG
160	10/13/24	CMG
161	10/13/24	CMG
162	10/13/24	CMG
163	10/13/24	CMG
164	10/13/24	CMG
165	10/13/24	CMG
166	10/13/24	CMG
167	10/13/24	CMG
168	10/13/24	CMG
169	10/13/24	CMG
170	10/13/24	CMG
171	10/13/24	CMG
172	10/13/24	CMG
173	10/13/24	CMG
174	10/13/24	CMG
175	10/13/24	CMG
176	10/13/24	CMG
177	10/13/24	CMG
178	10/13/24	CMG
179	10/13/24	CMG
180	10/13/24	CMG
181	10/13/24	CMG
182	10/13/24	CMG
183	10/13/24	CMG
184	10/13/24	CMG
185	10/13/24	CMG
186	10/13/24	CMG
187	10/13/24	CMG
188	10/13/24	CMG
189	10/13/24	CMG
190	10/13/24	CMG
191	10/13/24	CMG
192	10/13/24	CMG
193	10/13/24	CMG
194	10/13/24	CMG
195	10/13/24	CMG
196	10/13/24	CMG
197	10/13/24	CMG
198	10/13/24	CMG
199	10/13/24	CMG
200	10/13/24	CMG
201	10/13/24	CMG
202	10/13/24	CMG
203	10/13/24	CMG
204	10/13/24	CMG
205	10/13/24	CMG
206	10/13/24	CMG
207	10/13/24	CMG
208	10/13/24	CMG
209	10/13/24	CMG
210	10/13/24	CMG
211	10/13/24	CMG
212	10/13/24	CMG
213	10/13/24	CMG
214	10/13/24	CMG
215	10/13/24	CMG
216	10/13/24	CMG
217	10/13/24	CMG
218	10/13/24	CMG
219	10/13/24	CMG
220	10/13/24	CMG
221	10/13/24	CMG
222	10/13/24	CMG
223	10/13/24	CMG
224	10/13/24	CMG
225	10/13/24	CMG
226	10/13/24	CMG
227	10/13/24	CMG
228	10/13/24	CMG
229	10/13/24	CMG
230	10/13/24	CMG
231	10/13/24	CMG
232	10/13/24	CMG
233	10/13/24	CMG
234	10/13/24	CMG
235	10/13/24	CMG
236	10/13/24	CMG
237	10/13/24	CMG
238	10/13/24	CMG
239	10/13/24	CMG
240	10/13/24	CMG
241	10/13/24	CMG
242	10/13/24	CMG
243	10/13/24	CMG
244	10/13/24	CMG
245	10/13/24	CMG
246	10/13/24	CMG
247	10/13/24	CMG
248	10/13/24	CMG
249	10/13/24	CMG
250	10/13/24	CMG
251	10/13/24	CMG
252	10/13/24	CMG
253	10/13/24	CMG
254	10/13/24	CMG
255	10/13/24	CMG
256	10/13/24	CMG
257	10/13/24	CMG
258	10/13/24	CMG
259	10/13/24	CMG
260	10/13/24	CMG
261	10/13/24	CMG
262	10/13/24	CMG
263	10/13/24	CMG
264	10/13/24	CMG
265	10/13/24	CMG
266	10/13/24	CMG
267	10/13/24	CMG
268	10/13/24	CMG
269	10/13/24	CMG
270	10/13/24	CMG
271	10/13/24	CMG
272	10/13/24	CMG
273	10/13/24	CMG
274	10/13/24	CMG
275	10/13/24	CMG
276	10/13/24	CMG
277	10/13/24	CMG
278	10/13/24	CMG
279	10/13/24	CMG
280	10/13/24	CMG
281	10/13/24	CMG
282	10/13/24	CMG
283	10/13/24	CMG
284	10/13/24	CMG
285	10/13/24	CMG
286	10/13/24	CMG
287	10/13/24	CMG
288	10/13/24	CMG
289	10/13/24	CMG
290	10/13/24	CMG
291	10/13/24	CMG
292	10/13/24	CMG
293	10/13/24	CMG
294	10/13/24	CMG
295	10/13/24	CMG
296	10/13/24	CMG
297	10/13/24	CMG
298	10/13/24	CMG
299	10/13/24	CMG
300	10/13/24	CMG
301	10/13/24	CMG
302	10/13/24	CMG
303	10/13/24	CMG
304	10/13/24	CMG
305	10/13/24	CMG
306	10/13/24	CMG
307	10/13/24	CMG
308	10/13/24	CMG
309	10/13/24	CMG
310	10/13/24	CMG
311	10/13/24	CMG
312	10/13/24	CMG
313	10/13/24	CMG
314	10/13/24	CMG
315	10/13/24	CMG
316	10/13/24	CMG
317	10/13/24	CMG
318	10/13/24	CMG
319	10/13/24	CMG
320	10/13/24	CMG
321	10/13/24	CMG
322	10/13/24	CMG
323	10/13/24	CMG
324	10/13/24	CMG
325	10/13/24	CMG
326	10/13/24	CMG
327	10/13/24	CMG
328	10/13/24	CMG
329	10/13/24	CMG
330	10/13/24	CMG
331	10/13/24	CMG
332	10/13/24	CMG
333	10/13/24	CMG
334	10/13/24	CMG
335	10/13/24	CMG
336	10/13/24	CMG
337	10	

STORM SERVICE TAP DATA

LOT 122
0+00, (10+84.82±, 200.37'± LT.)
EX. 14'~6" C @ 1.0%
EX. FL 6" = 641.46±

LOT 123
0+00, (9+91.49±, 202.45'± LT.)
EX. 21'~6" C @ 1.0%
EX. FL 6" = 641.24±

LOT 124
0+00, (9+45.70, 200.25' LT.)
14'~6" C @ 1.0%
FL 6" = 641.69

LOT 125
SEE SHEET 15

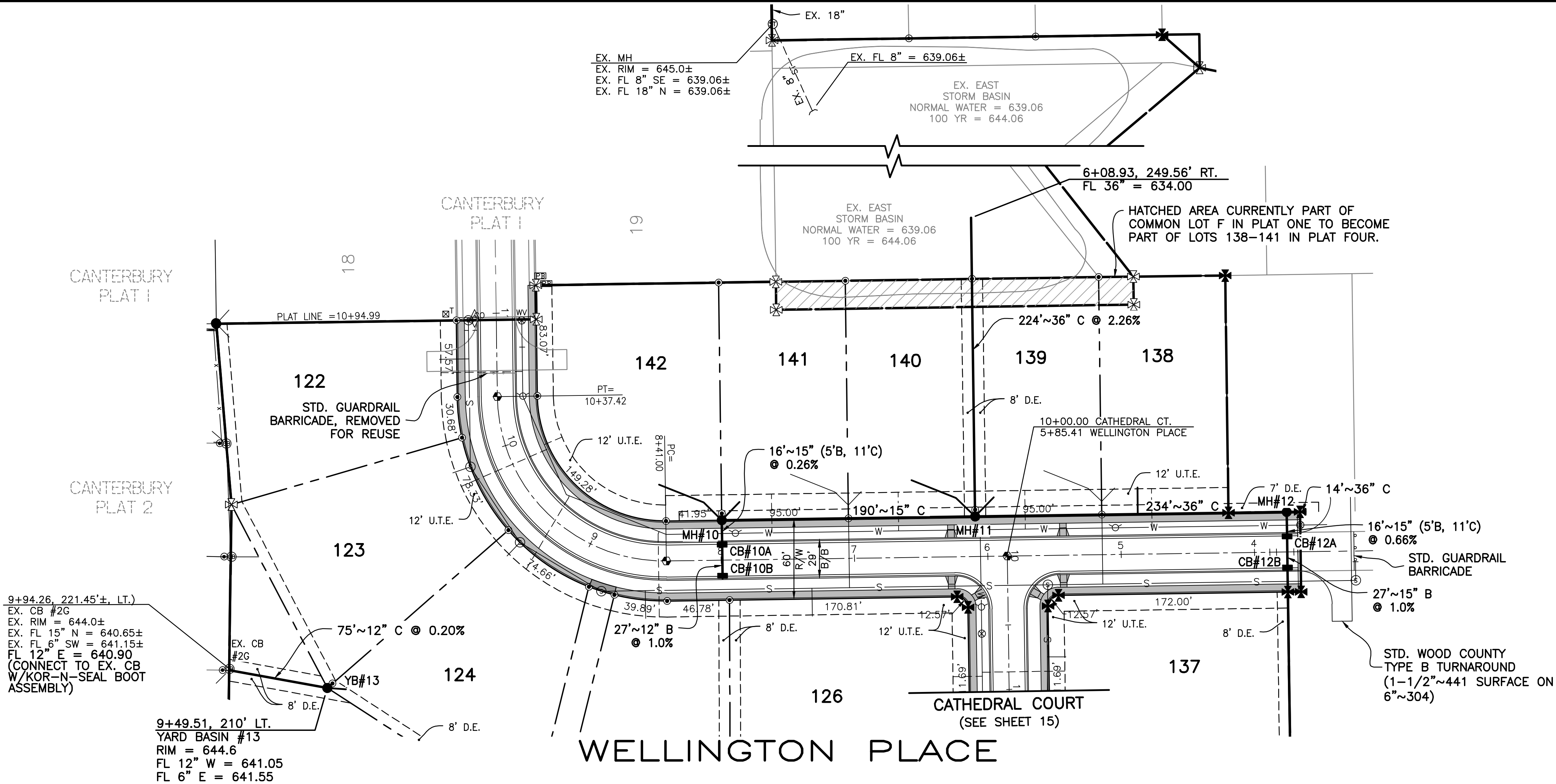
LOT 138
1+22, (4+87.06, 50' RT.)
20'~6" C @ 1.0%
FL 6" = 640.67

LOT 139
0+00, (5+94.91, 44.14' RT.)
20'~6" C @ 1.0%
FL 6" = 641.70

LOT 140
0+00, (6+56.46, 57.92' RT.)
20'~6" C @ 1.0%
6"~22-1/2' BEND
36'~6" C @ 1.0%
FL 6" = 642.12

LOT 141
0+00, (7+85.61, 43.43' RT.)
19'~6" C @ 1.0%
FL 6" = 640.80

LOT 142
0+00, (8+49.72, 57.07' RT.)
19'~6" C @ 1.0%
6"~22-1/2' BEND
36'~6" C @ 1.0%
FL 6" = 641.21



FELLER, FINCH & ASSOCIATES, INC.			
REVISION	DATE	DESIGN BY:	CMG
		DRAWN BY:	RSP
		DATE:	2-6-23
		CHK'D BY:	CMG
		DRAWING:	10-07320P0408

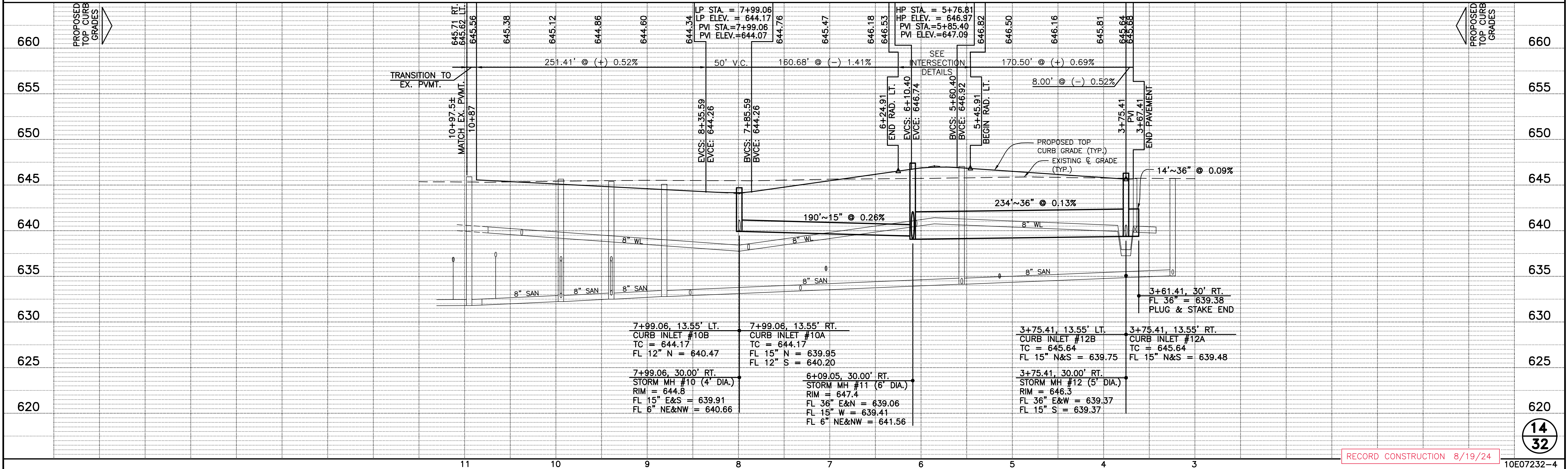
EASEMENT ABBREVIATIONS

D.E..... DRAINAGE EASEMENT
U.T.E..... UTILITY & TOLEDO EDISON EASEMENT

NOTE:
STORM TAPS FOR LOTS 138-141 MUST BE DIRECTED TO STORM MAIN LINE. NO DIRECT DISCHARGES TO POND WILL BE ALLOWED.

MANHOLE NOTES:

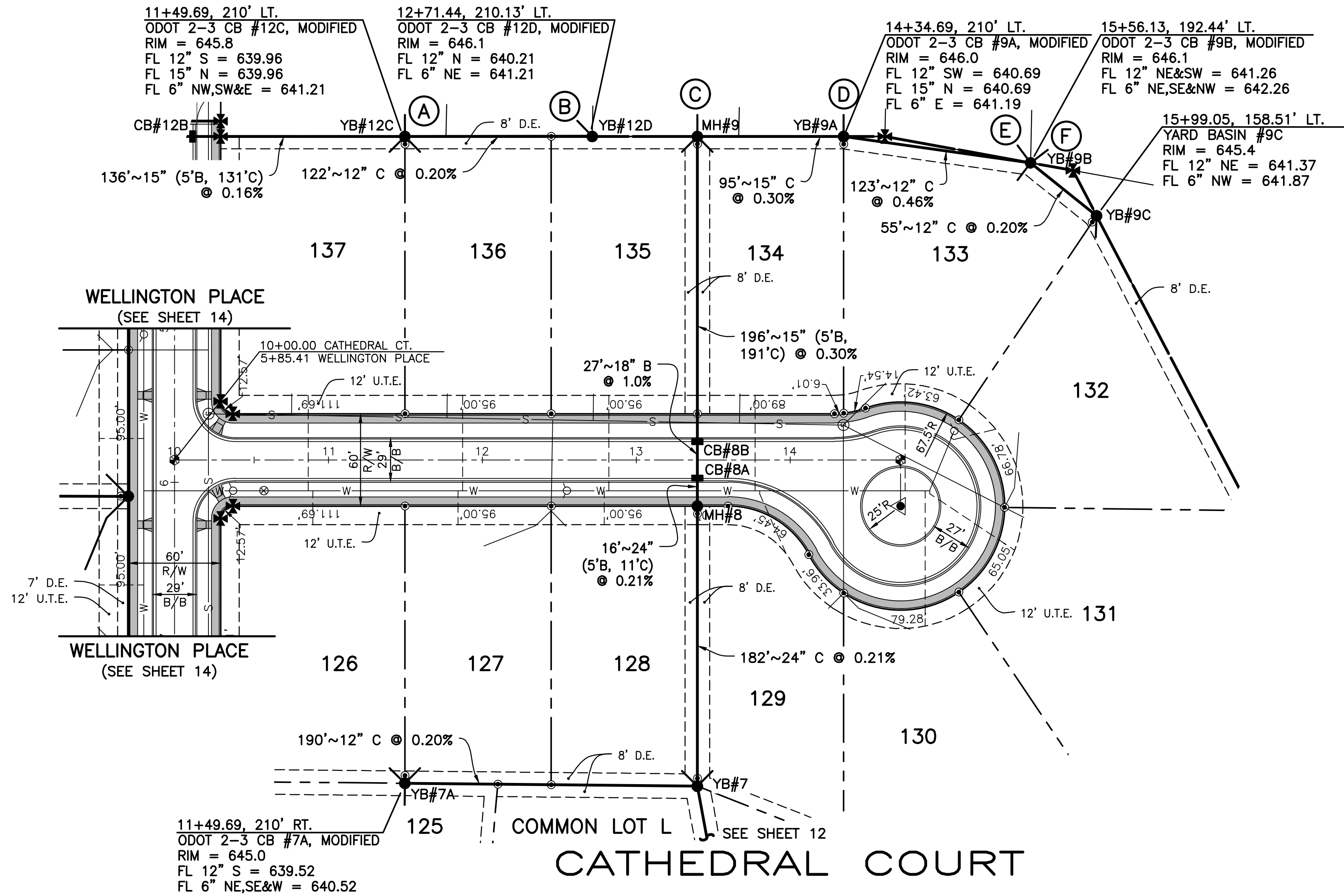
- ALL STORM MANHOLES SHALL BE PER THE DETAILS ON SHEET 5.
- THE DIAMETER ON THE MANHOLES SHALL BE AS INDICATED IN THE PROFILE BELOW.
- THE FLAT SLAB TOP OF THE MANHOLES SHALL BE ORIENTED TO PLACE THE LID AWAY FROM THE STREET CENTERLINE & OUT OF THE PROPOSED SIDEWALK.



RECORD CONSTRUCTION 8/19/24

STORM SERVICE TAP DATA

LOT 125	LOT 134
0+00, (11+49.55, 224' RT.)	0+00, (13+49.59, 200.10' LT.)
14'~6" C @ 1.0%	14'~6" C @ 1.0%
FL 6" = 640.66	FL 6" = 641.80
LOT 126	LOT 135
0+00, (11+39.79, 200.10' RT.)	0+00, (13+29.79, 200.10' LT.)
14'~6" C @ 1.0%	14'~6" C @ 1.0%
FL 6" = 640.66	FL 6" = 641.80
LOT 127	LOT 136
0+00, (11+59.59, 200.10' RT.)	0+00, (11+59.59, 200.10' LT.)
14'~6" C @ 1.0%	14'~6" C @ 1.0%
FL 6" = 640.66	FL 6" = 641.35
LOT 128	LOT 137
0+00, (13+29.79, 202.00' RT.)	0+00, (11+39.79, 200.10' LT.)
14'~6" C @ 1.0%	14'~6" C @ 1.0%
FL 6" = 641.79	FL 6" = 641.35
LOT 129	LOT 138
0+00, (13+49.59, 202.00' RT.)	0+00, (11+49.67, 224' LT.)
14'~6" C @ 1.0%	14'~6" C @ 1.0%
FL 6" = 641.79	FL 6" = 641.35
LOT 130	LOT 139
SEE SHEET 12	0+00, (12+61.76, 220.25' LT.)
LOT 131	LOT 140
SEE SHEET 12	0+00, (12+61.76, 220.25' LT.)
LOT 132	LOT 141
0+00, (15+98.45, 144.52' LT.)	0+00, (12+61.76, 220.25' LT.)
14'~6" C @ 1.0%	14'~6" C @ 1.0%
FL 6" = 642.01	FL 6" = 641.35
LOT 133	LOT 142
0+00, (15+47.76, 181.72' LT.)	0+00, (13+39.69, 224' LT.)
14'~6" C @ 1.0%	14'~6" C @ 1.0%
FL 6" = 642.40	FL 6" = 641.30
LOT 134	LOT 143
0+00, (15+47.76, 181.72' LT.)	0+00, (14+34.69, 224' LT.)
14'~6" C @ 1.0%	14'~6" C @ 1.0%
FL 6" = 642.40	FL 6" = 641.33
LOT 135	LOT 144
0+00, (15+67.31, 201.36' LT.)	0+00, (15+47.70, 204.12' LT.)
14'~6" C @ 1.0%	14'~6" C @ 1.0%
FL 6" = 642.40	FL 6" = 642.40
LOT 136	LOT 145
0+00, (15+67.31, 201.36' LT.)	0+00, (15+67.31, 201.36' LT.)
14'~6" C @ 1.0%	14'~6" C @ 1.0%
FL 6" = 642.40	FL 6" = 642.40



FELLER, FINCH & ASSOCIATES, INC.

REVISION	DATE	DESIGN BY:	CMG
		DRAWN BY:	RSP
		CHECKED BY:	CMG
		DATE:	2-6-23
		DRAWING:	10-07320P0408

NORTH

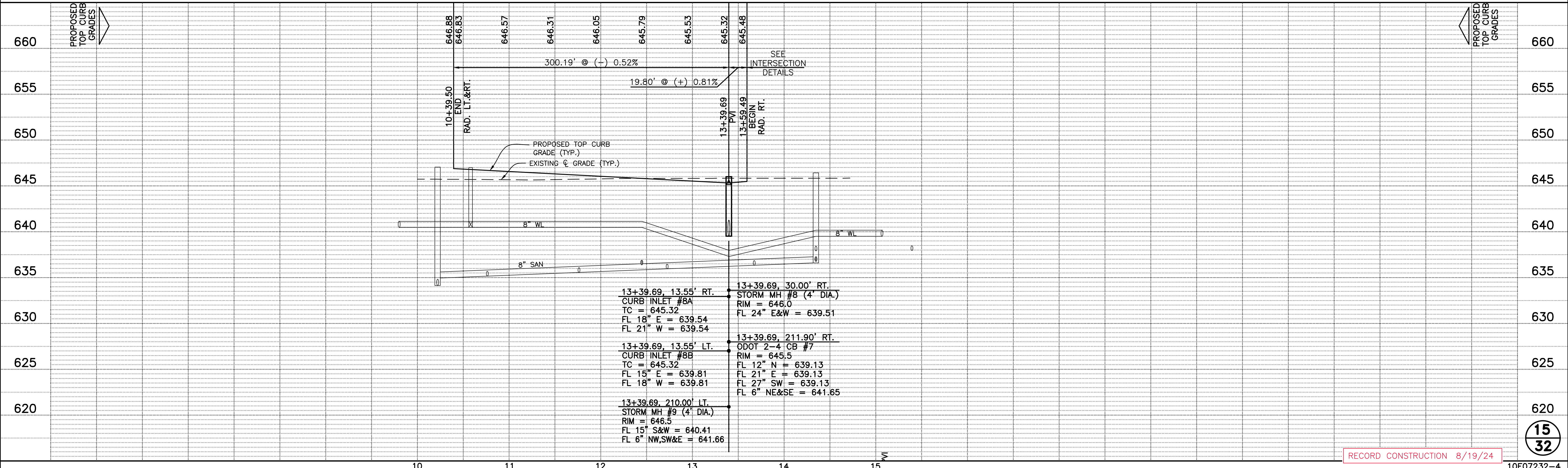
SCALE: 1"=50'

EASEMENT ABBREVIATIONS

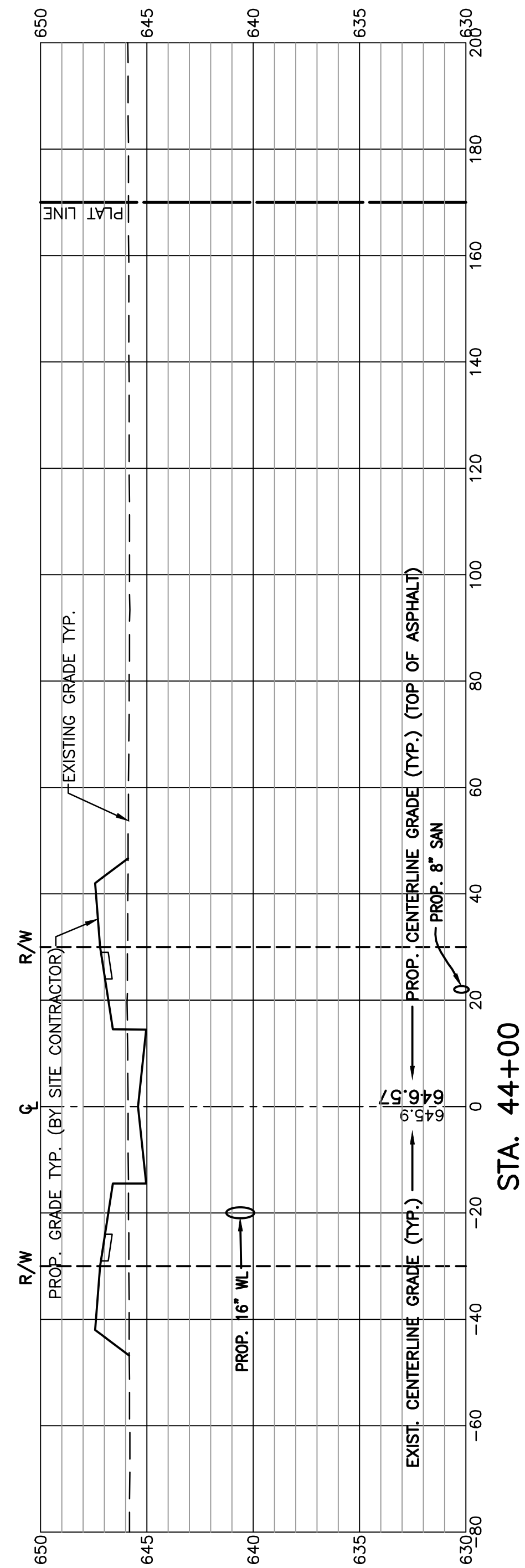
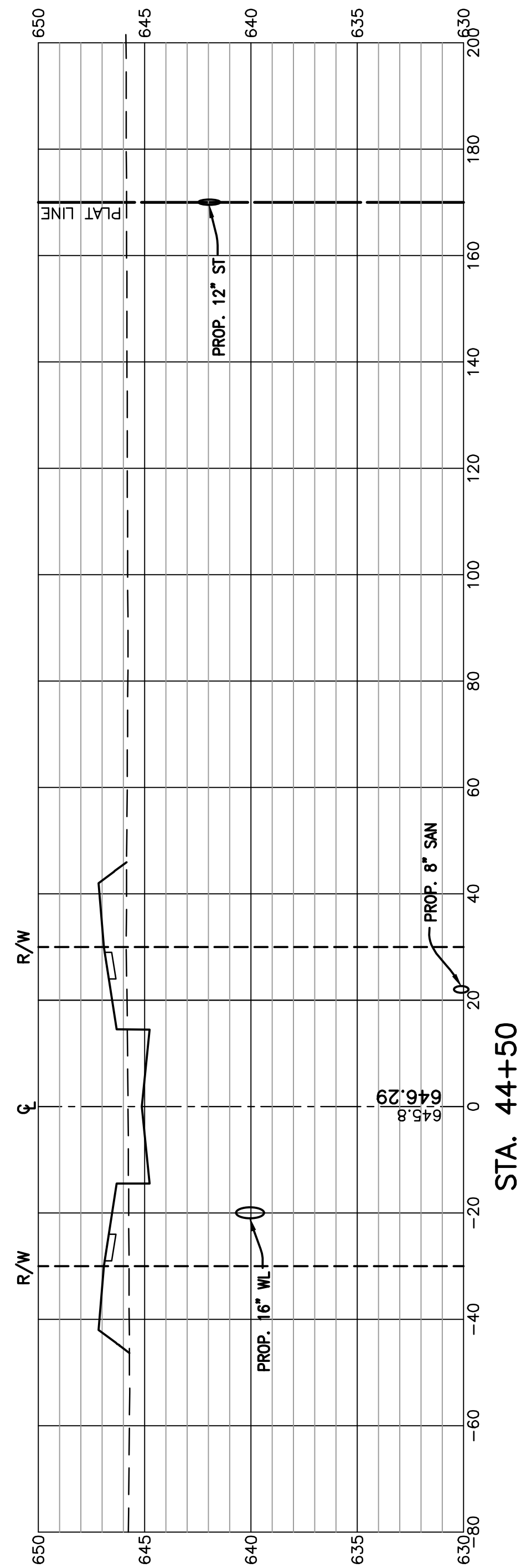
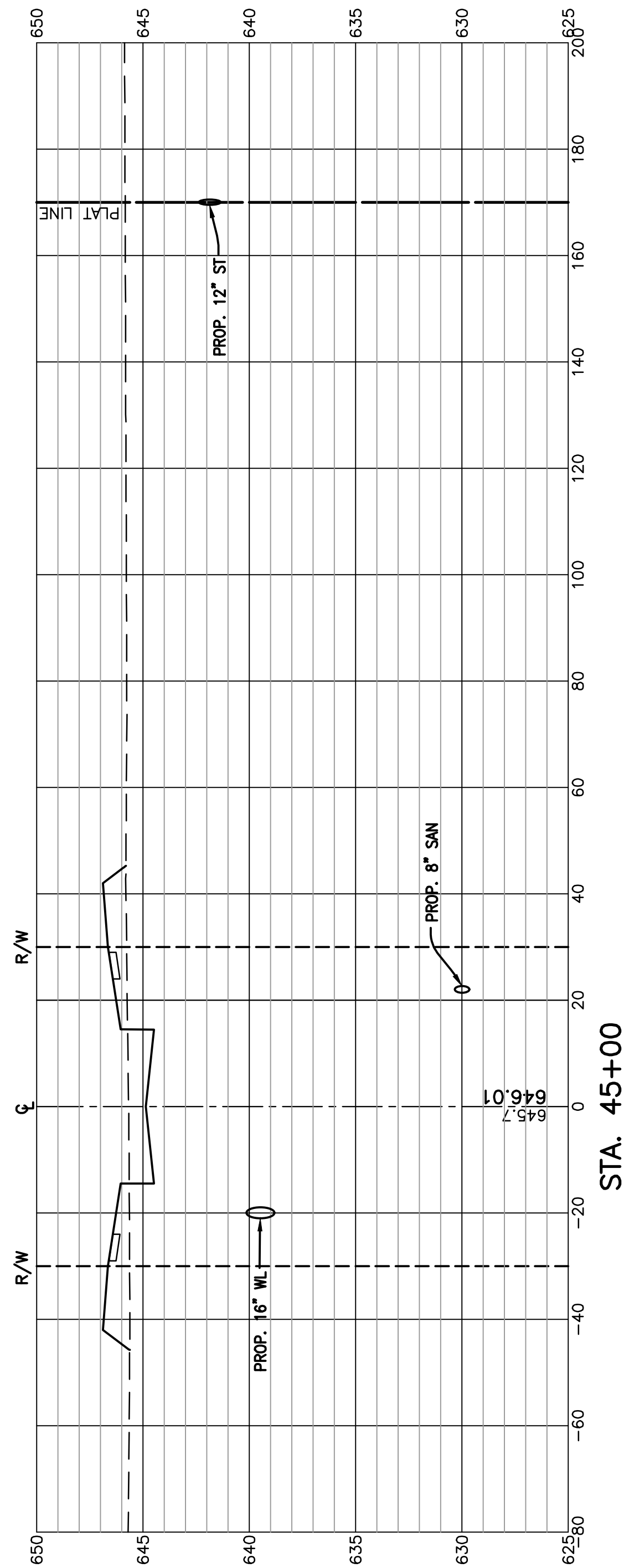
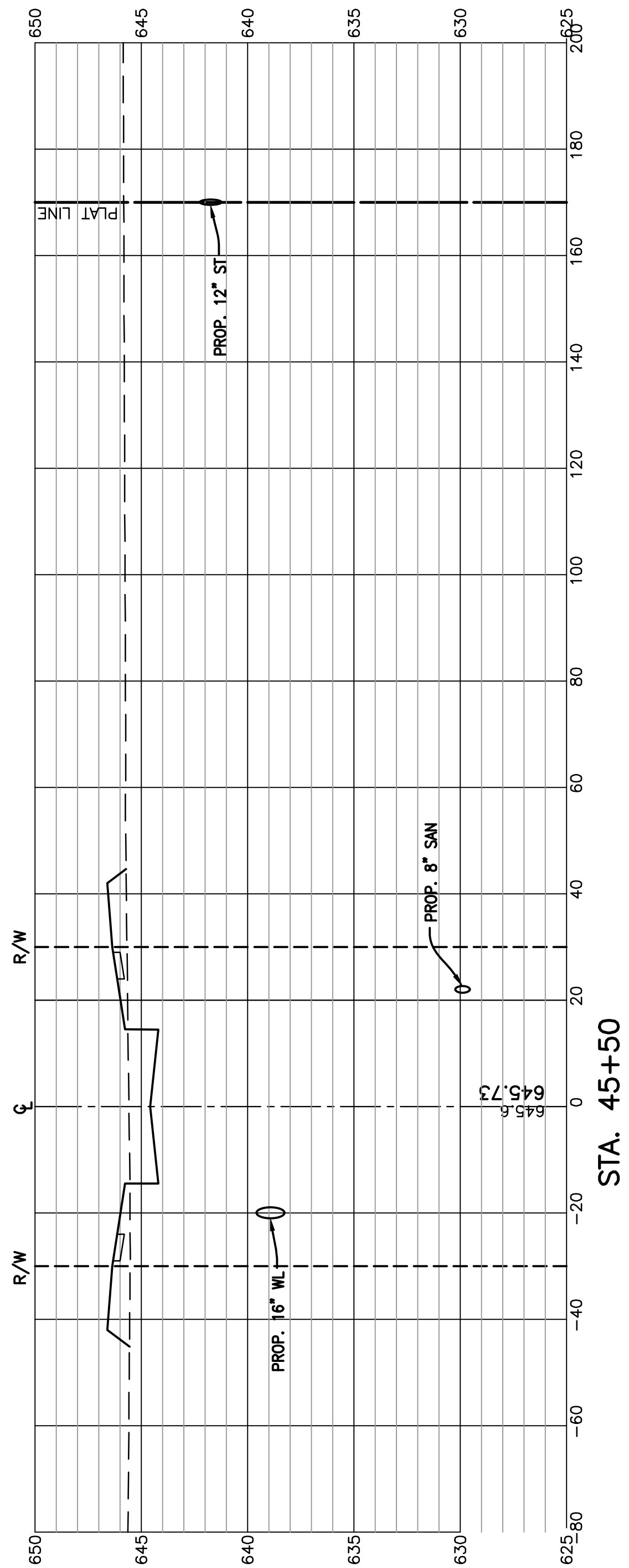
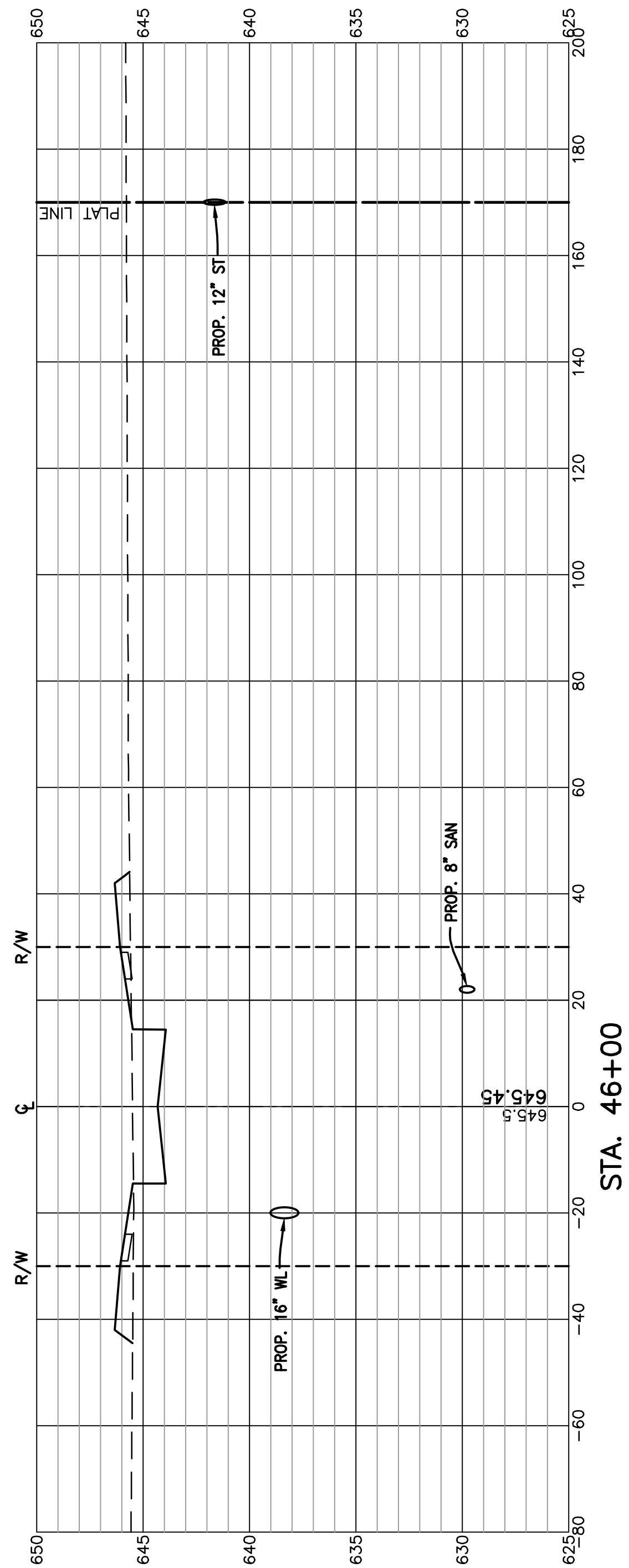
D.E. DRAINAGE EASEMENT

U.T.E. UTILITY & TOLEDO EDISON EASEMENT

- MANHOLE NOTES:
1. ALL STORM MANHOLES SHALL BE PER THE DETAILS ON SHEET 5.
 2. THE DIAMETER ON THE MANHOLES SHALL BE AS INDICATED IN THE PROFILE BELOW.
 3. THE FLAT SLAB TOP OF THE MANHOLES SHALL BE ORIENTED TO PLACE THE LID AWAY FROM THE STREET CENTERLINE & OUT OF THE PROPOSED SIDEWALK.

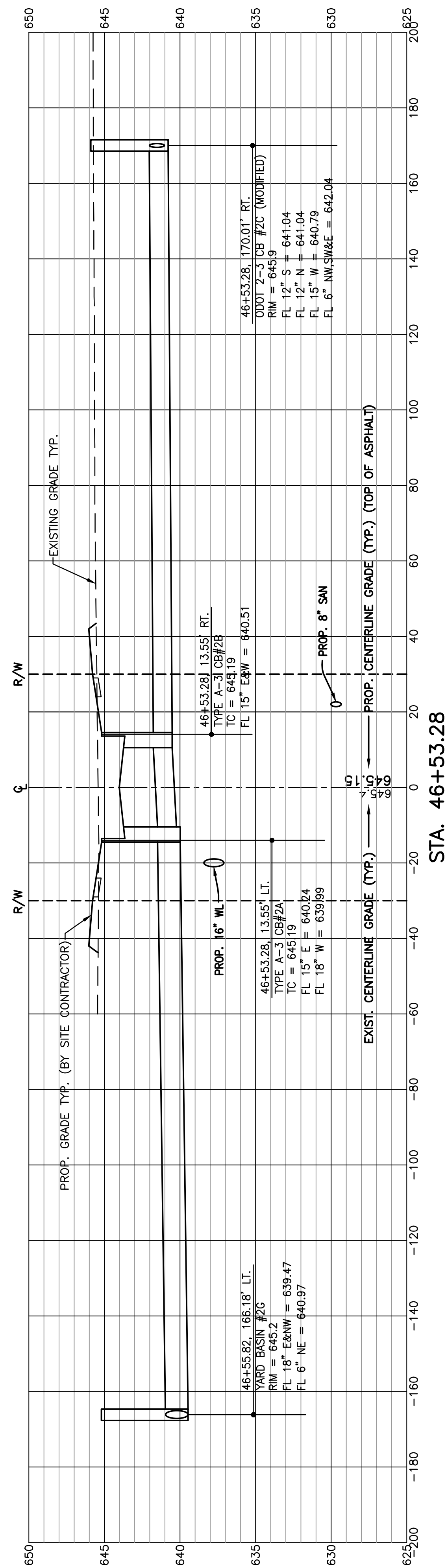
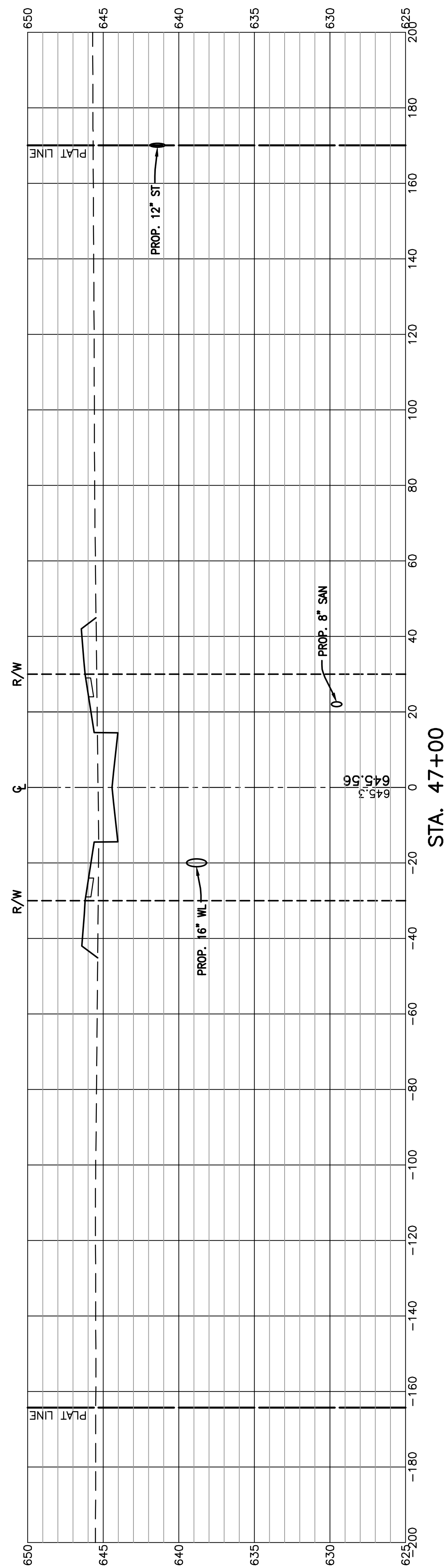
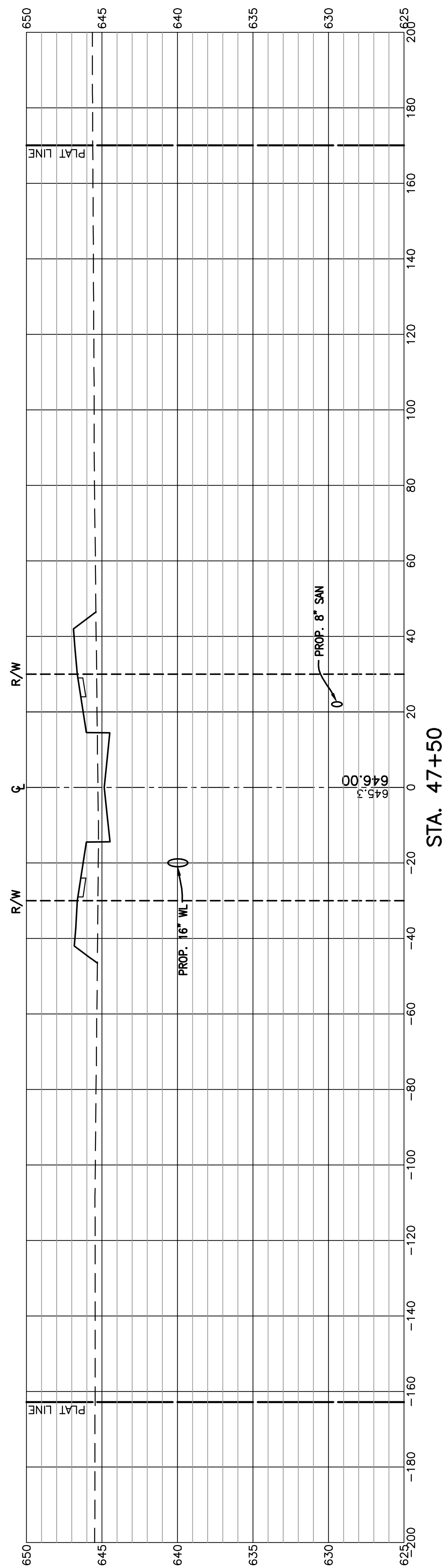
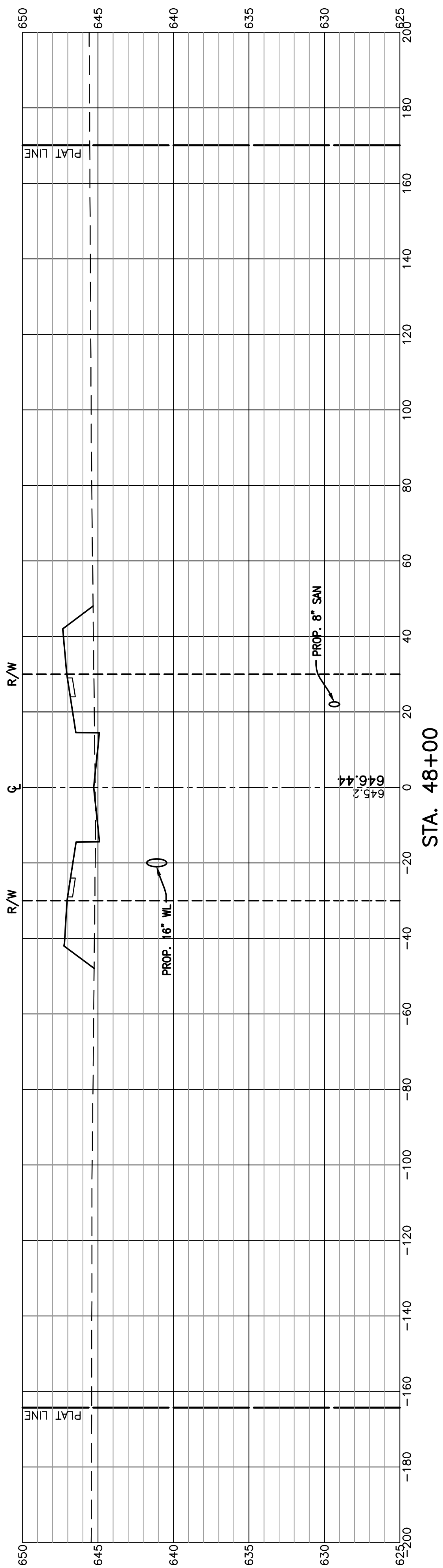


FELLER, FINCH & ASSOCIATES, INC.			
REVISION	DATE	DESIGN BY:	CMG
		DRAWN BY:	RSP
		DATE:	2-6-23
		CHK'D BY:	GNF
		DRAWING:	10-072320P0408



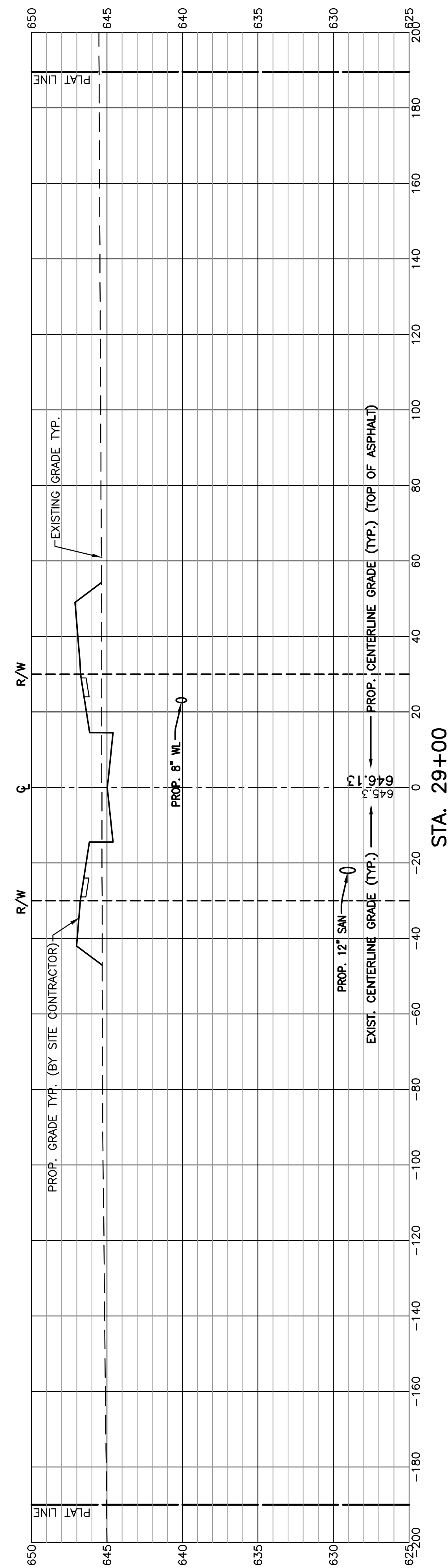
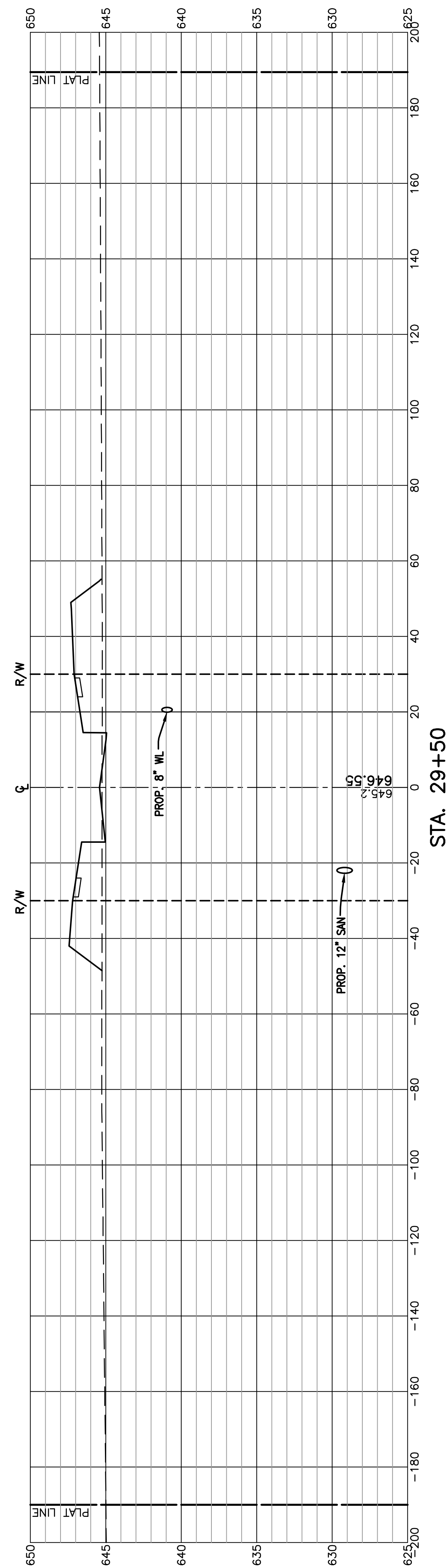
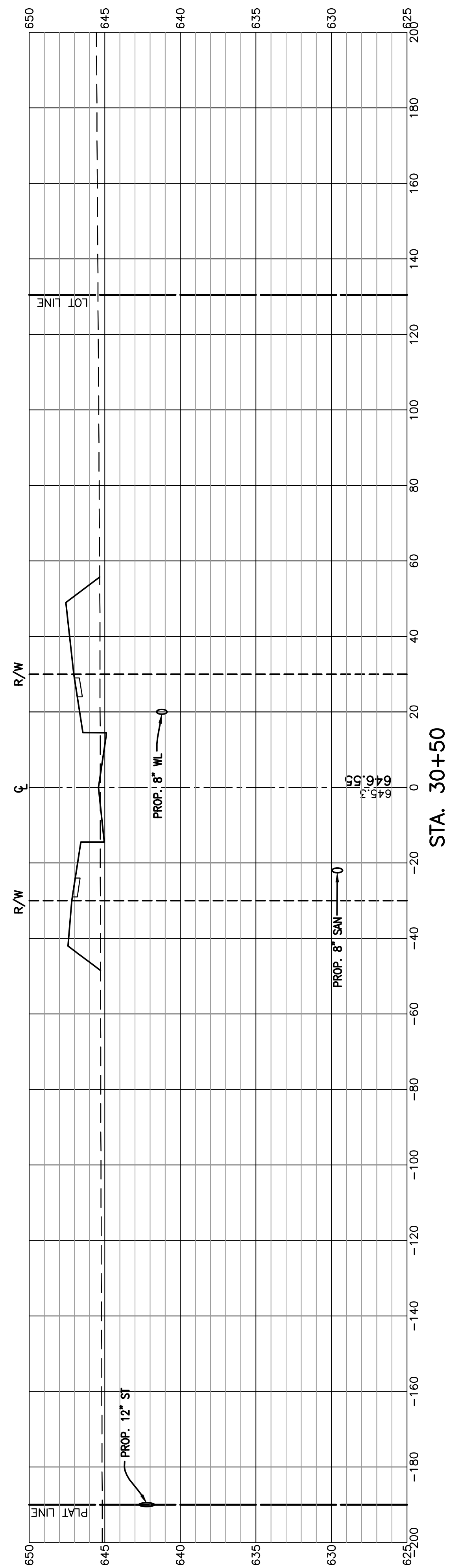
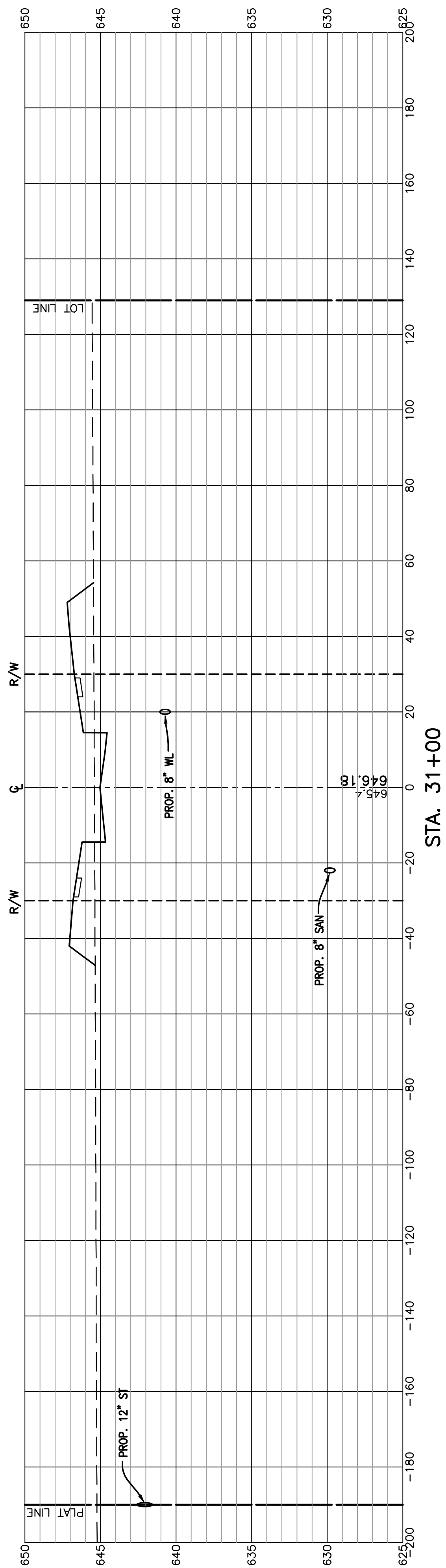
RECORD CONSTRUCTION 8/19/24

FELLER, FINCH & ASSOCIATES, INC.			
REVISION	DATE	DESIGN BY:	CMG
		DRAWN BY:	RSP
		DATE:	2-6-23
		CHK'D BY:	GNF
		DRAWING:	10-072320P0408

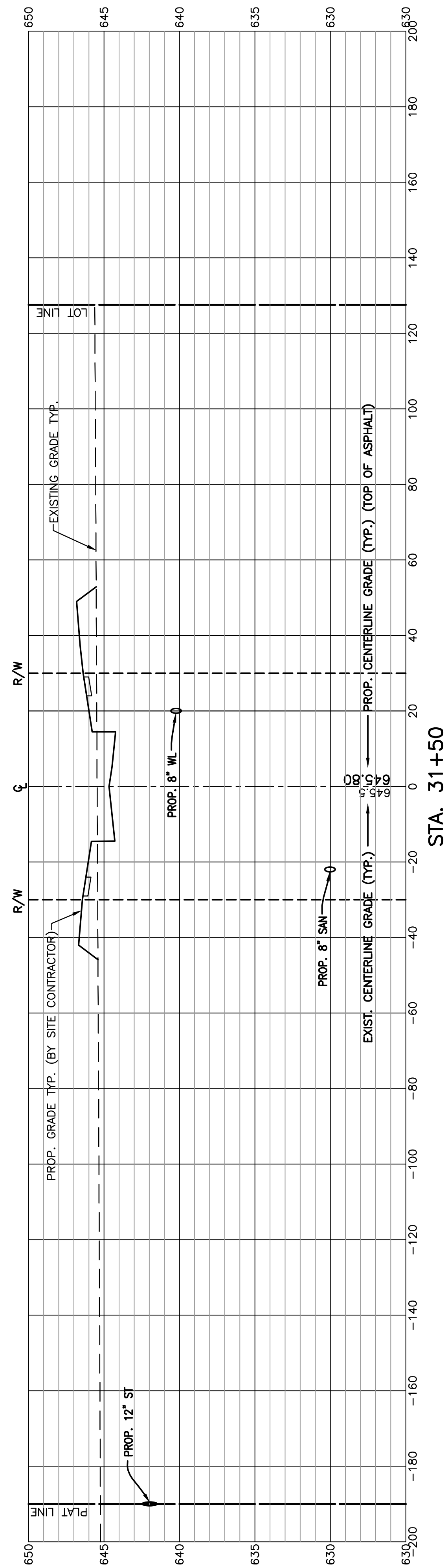
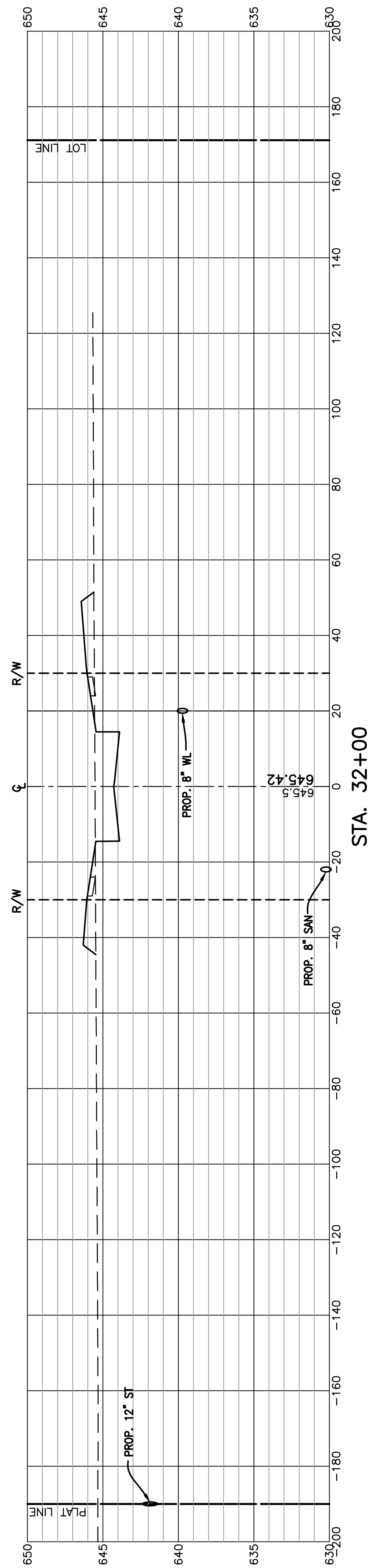
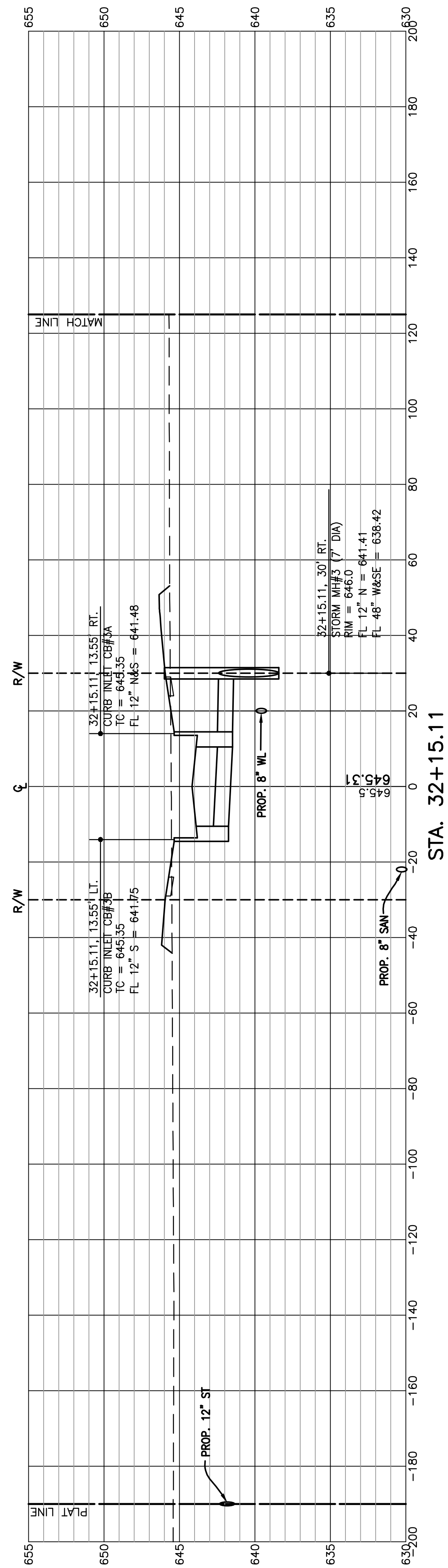
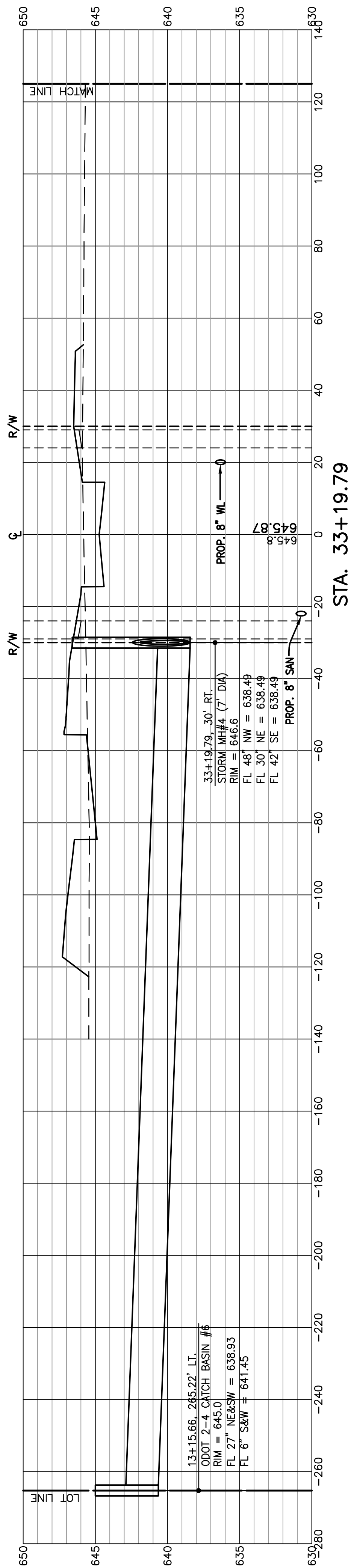


RECORD CONSTRUCTION 8/19/24

FELLER, FINCH & ASSOCIATES, INC.			
REVISION	DATE	DESIGN BY:	CMG
		DRAWN BY:	RSP
		DATE:	2-6-23
		CHK'D BY:	CMG
		DRAWING:	10-072320P04B



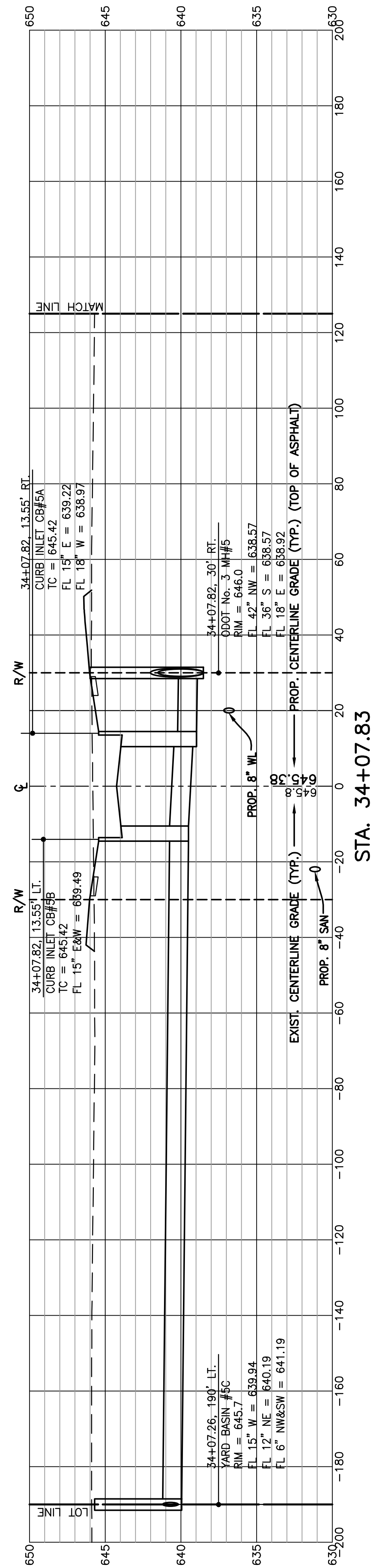
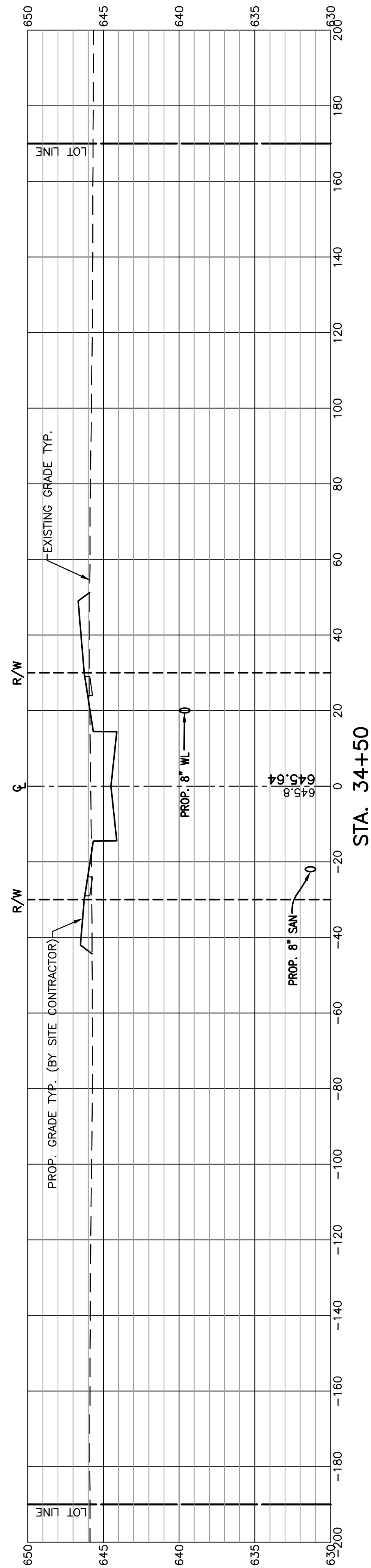
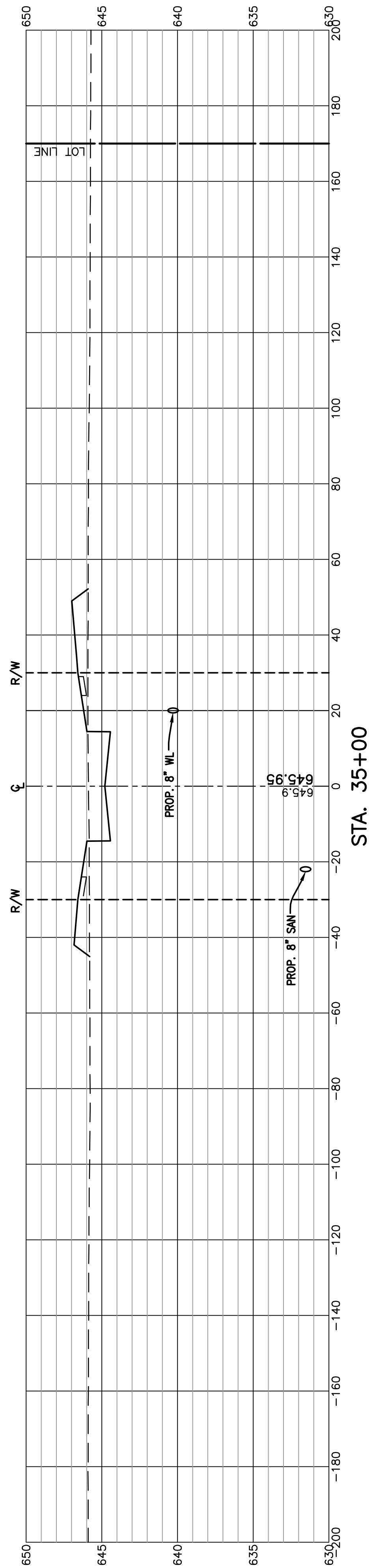
RECORD CONSTRUCTION 8/19/24



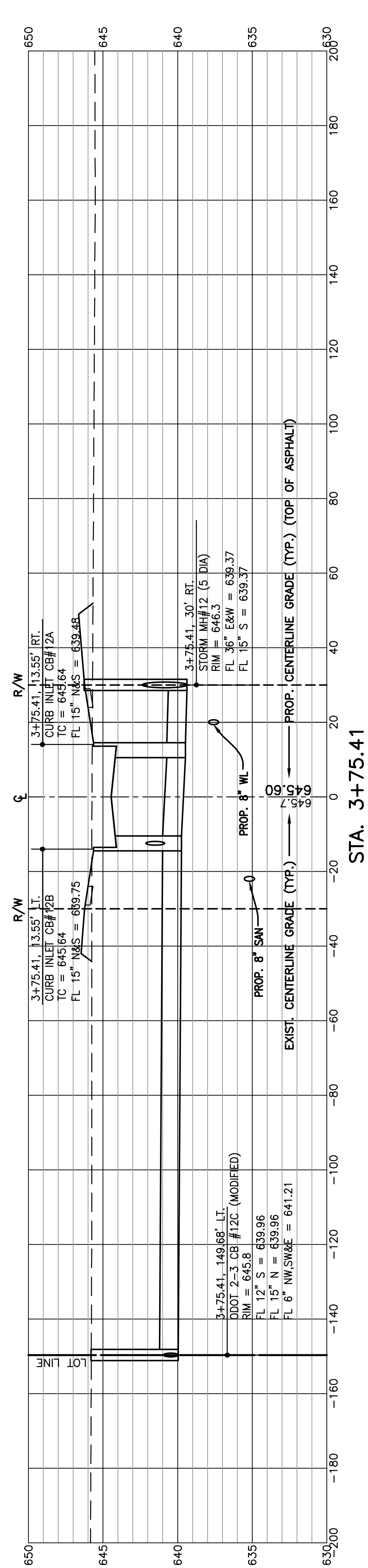
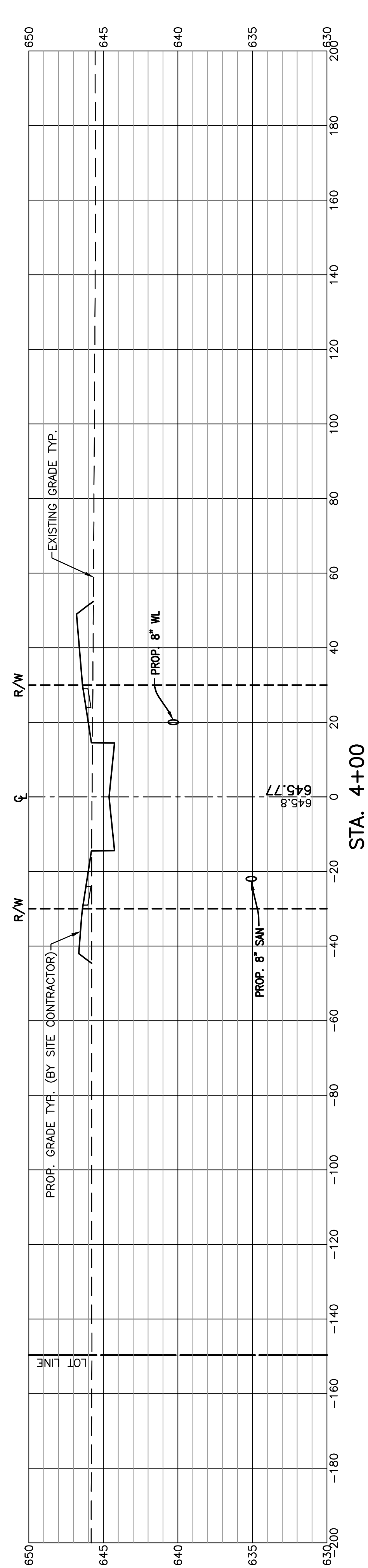
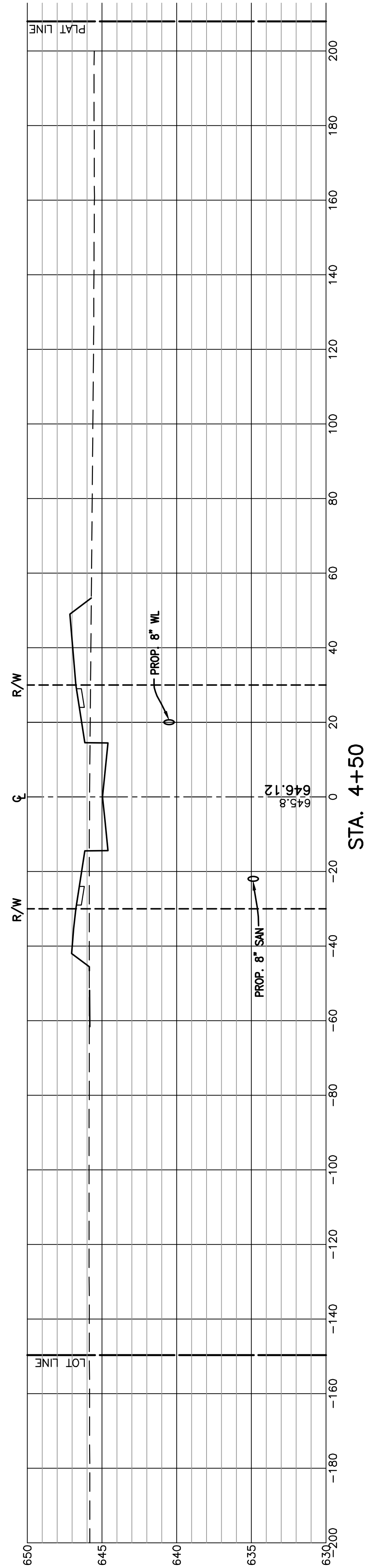
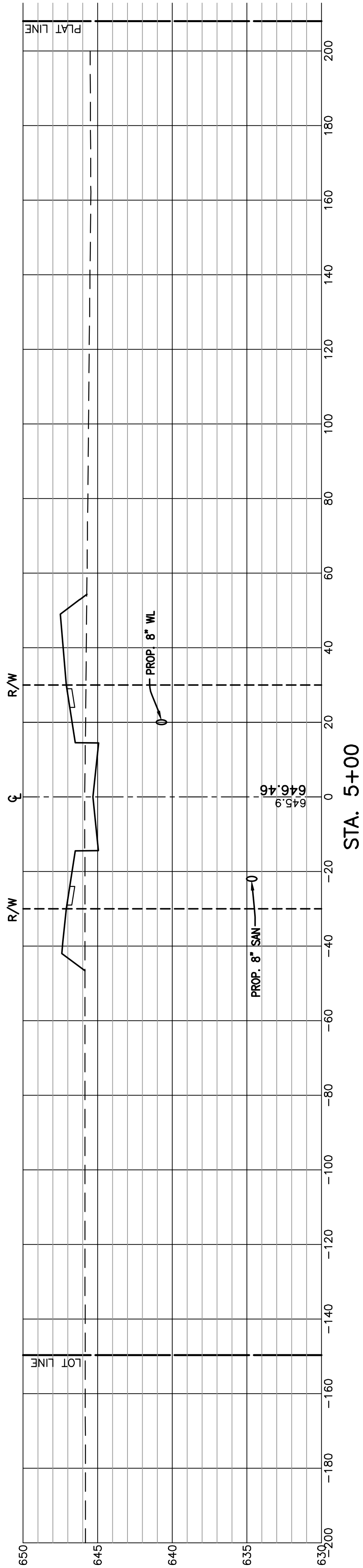
FELLER, FINCH & ASSOCIATES, INC.			
REVISION	DATE	DESIGN BY:	CMG
		DRAWN BY:	RSP
		DATE:	2-6-23
		CHK'D BY:	CMG
		DRAWING:	10-072320P04B

RECORD CONSTRUCTION 8/19/24

FELLER, FINCH & ASSOCIATES, INC.			
REVISION	DATE	DESIGN BY:	CMG
		DRAWN BY:	RSP
		DATE:	2-6-23
		CHK'D BY:	CMG
		DRAWING:	10-072320P04B



RECORD CONSTRUCTION 8/19/24

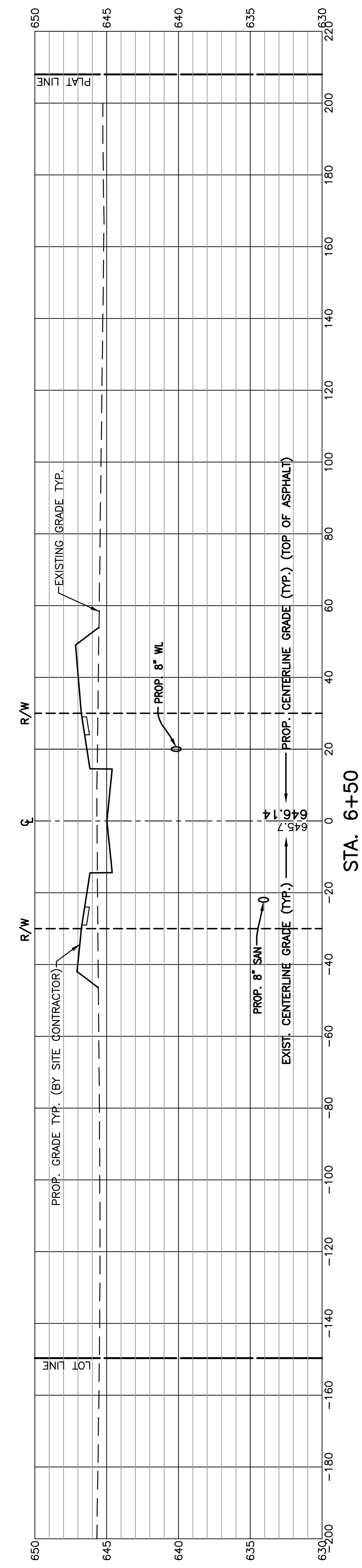
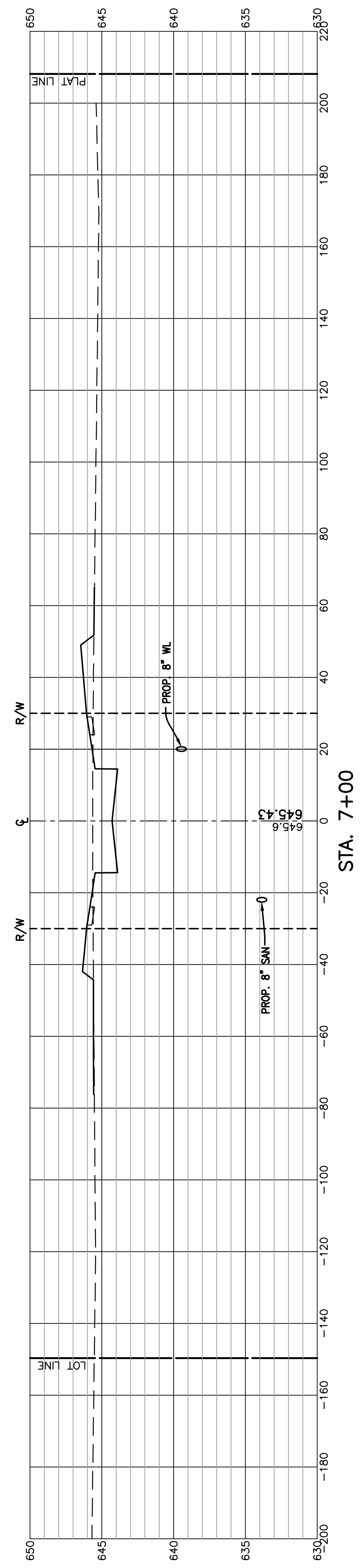
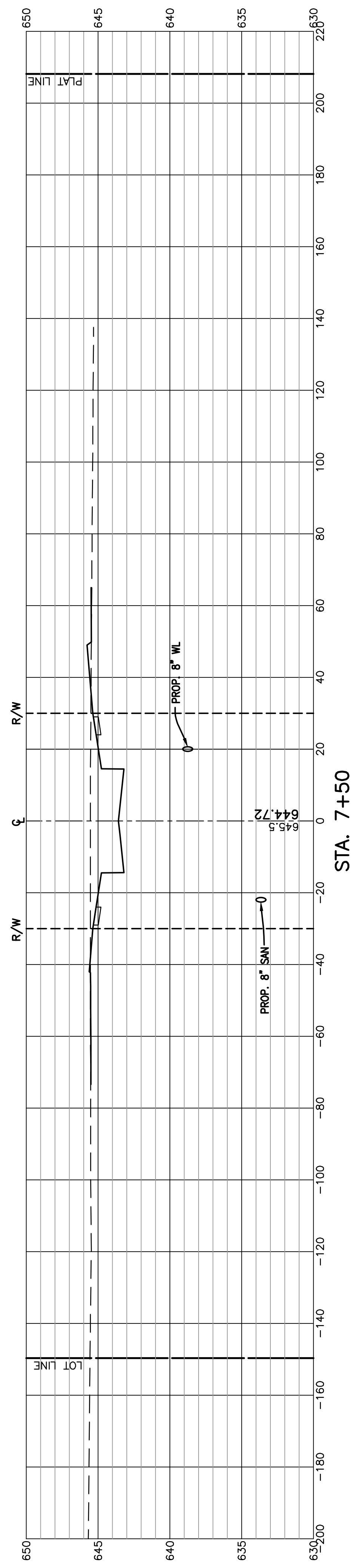
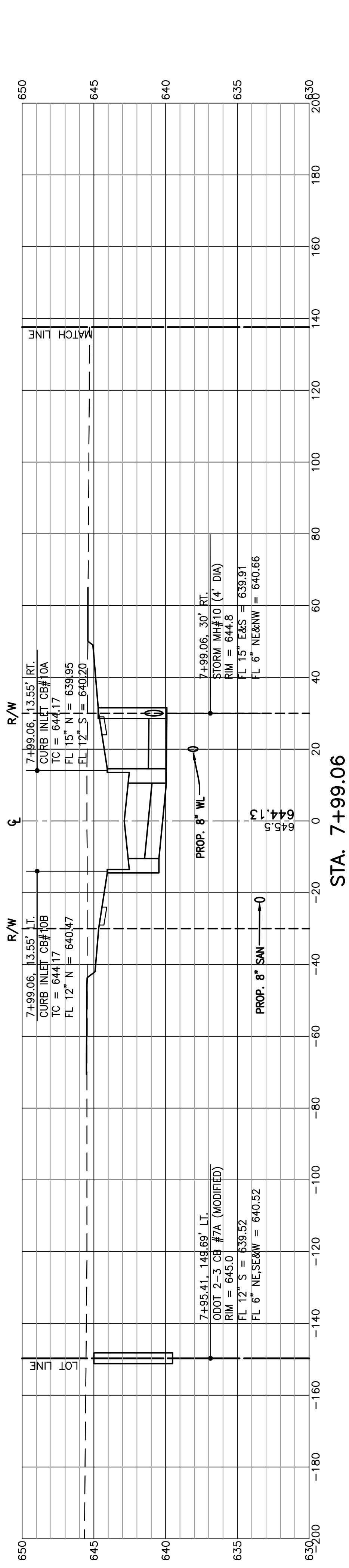


FELLER, FINCH & ASSOCIATES, INC.			
REVISION	DATE	DESIGN BY:	CMG
		DRAWN BY:	RSP
		DATE:	2-6-23
		CHK'D BY:	CMG
		DRAWING:	10-072320P04B

RECORD CONSTRUCTION 8/19/24

21
32

10E07232-4

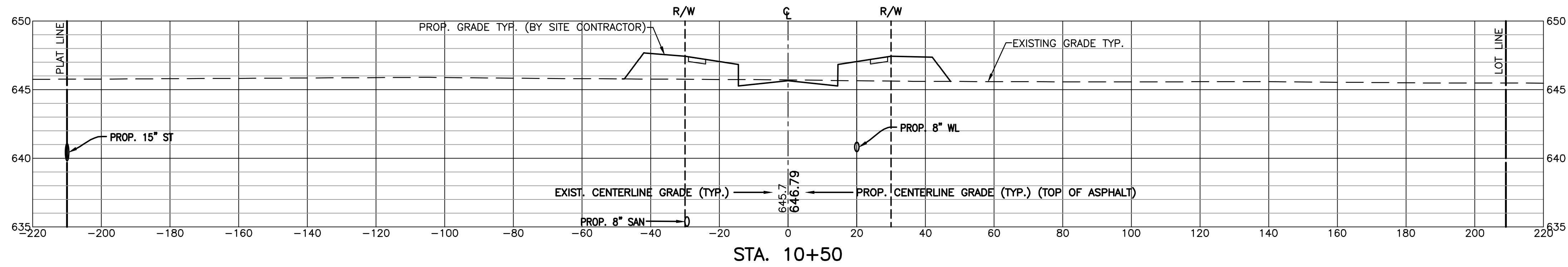
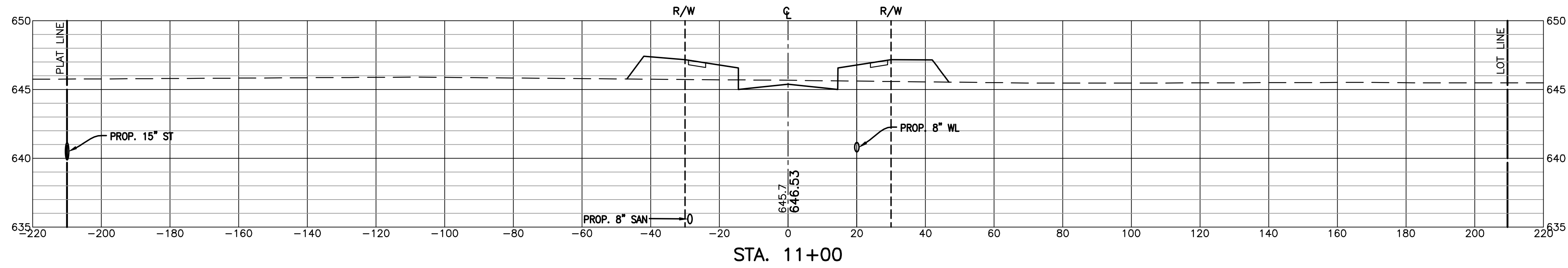
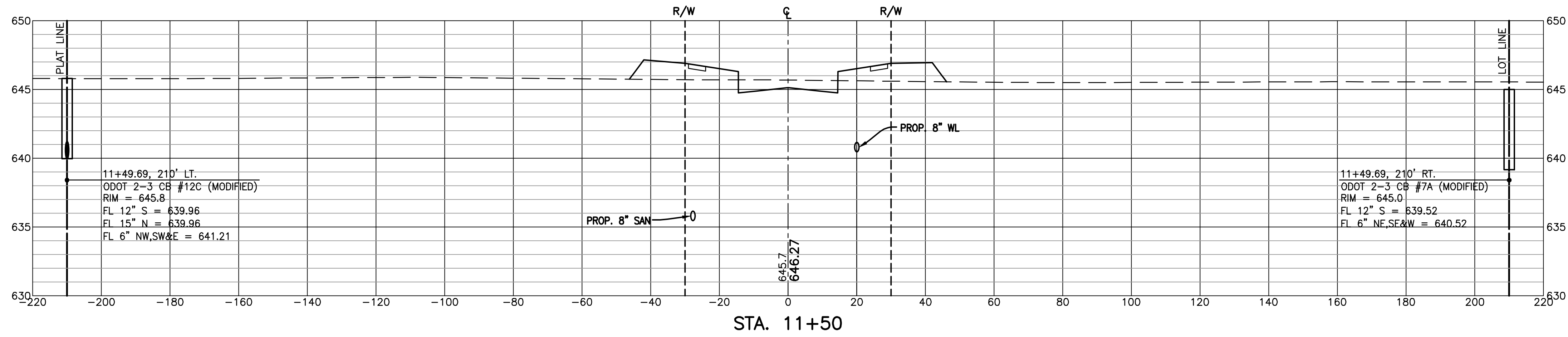
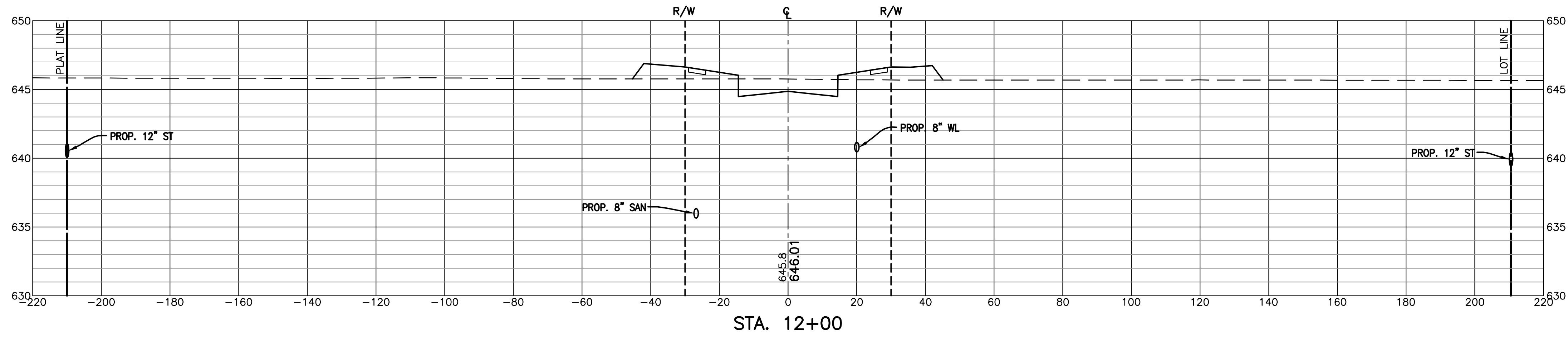


FELLER, FINCH & ASSOCIATES, INC.			
REVISION	DATE	DESIGN BY:	CMG
		DRAWN BY:	RSP
		DATE:	2-6-23
		CHK'D BY:	CMG
		DRAWING:	10-072320P0408

RECORD CONSTRUCTION 8/19/24

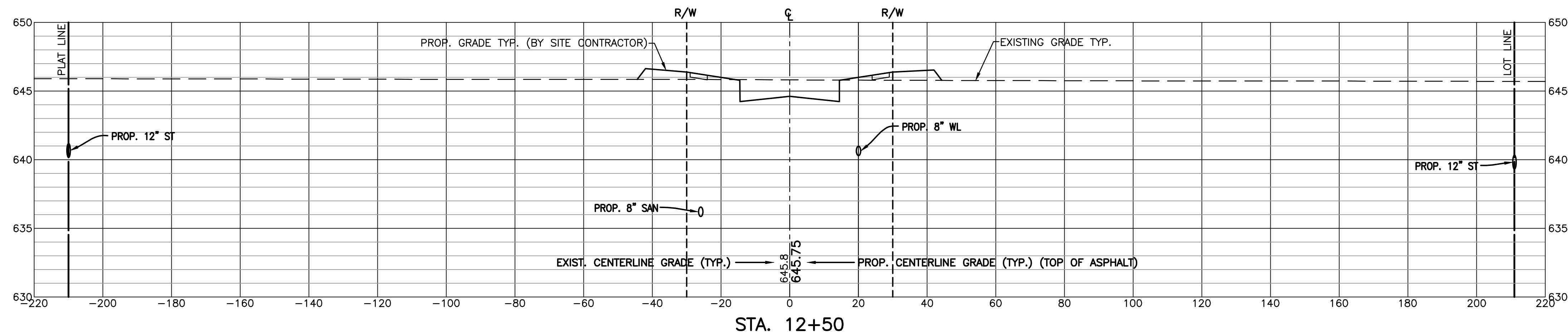
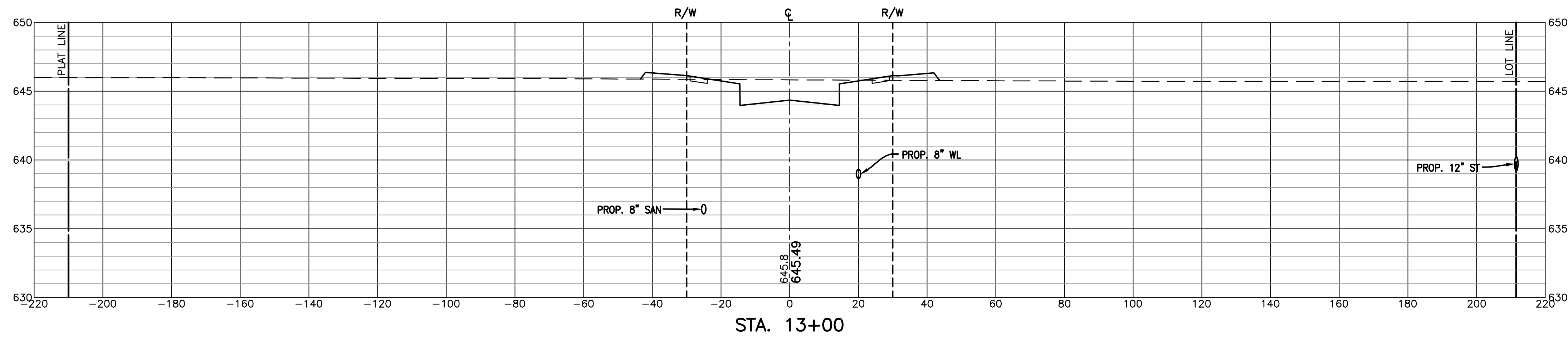
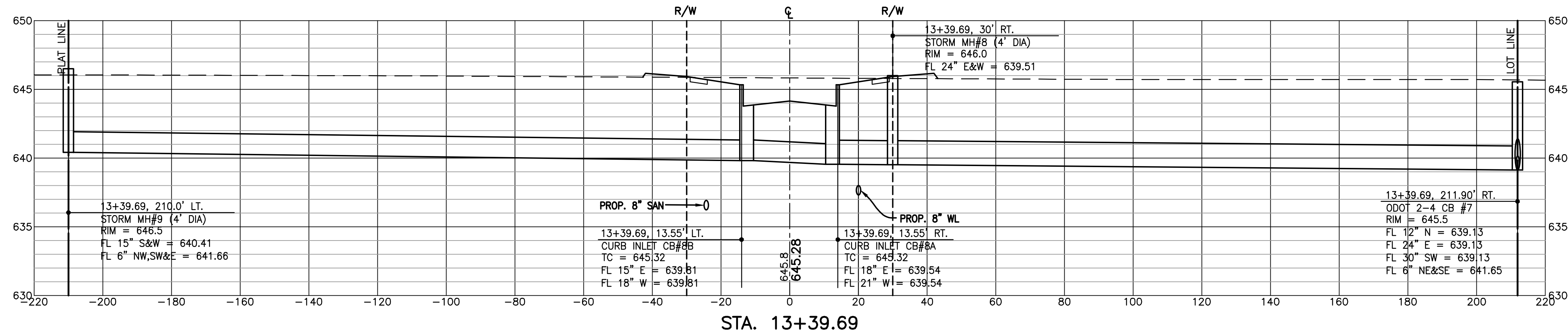
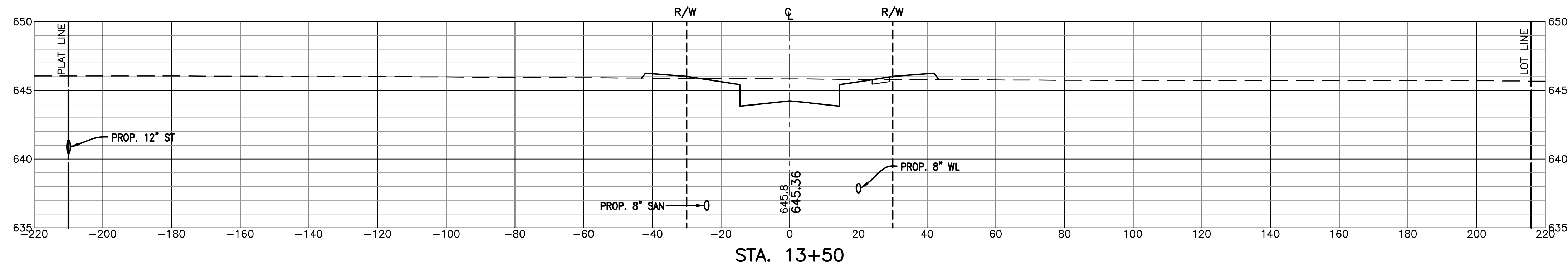
RECORD CONSTRUCTION 8/19/24

FELLER, FINCH & ASSOCIATES, INC.			
REVISION	DATE	DESIGN BY:	CMG
		DRAWN BY:	RSP
		DATE:	2-6-23
		CHK'D BY:	CMG
		DRAWING:	10-072320P0408

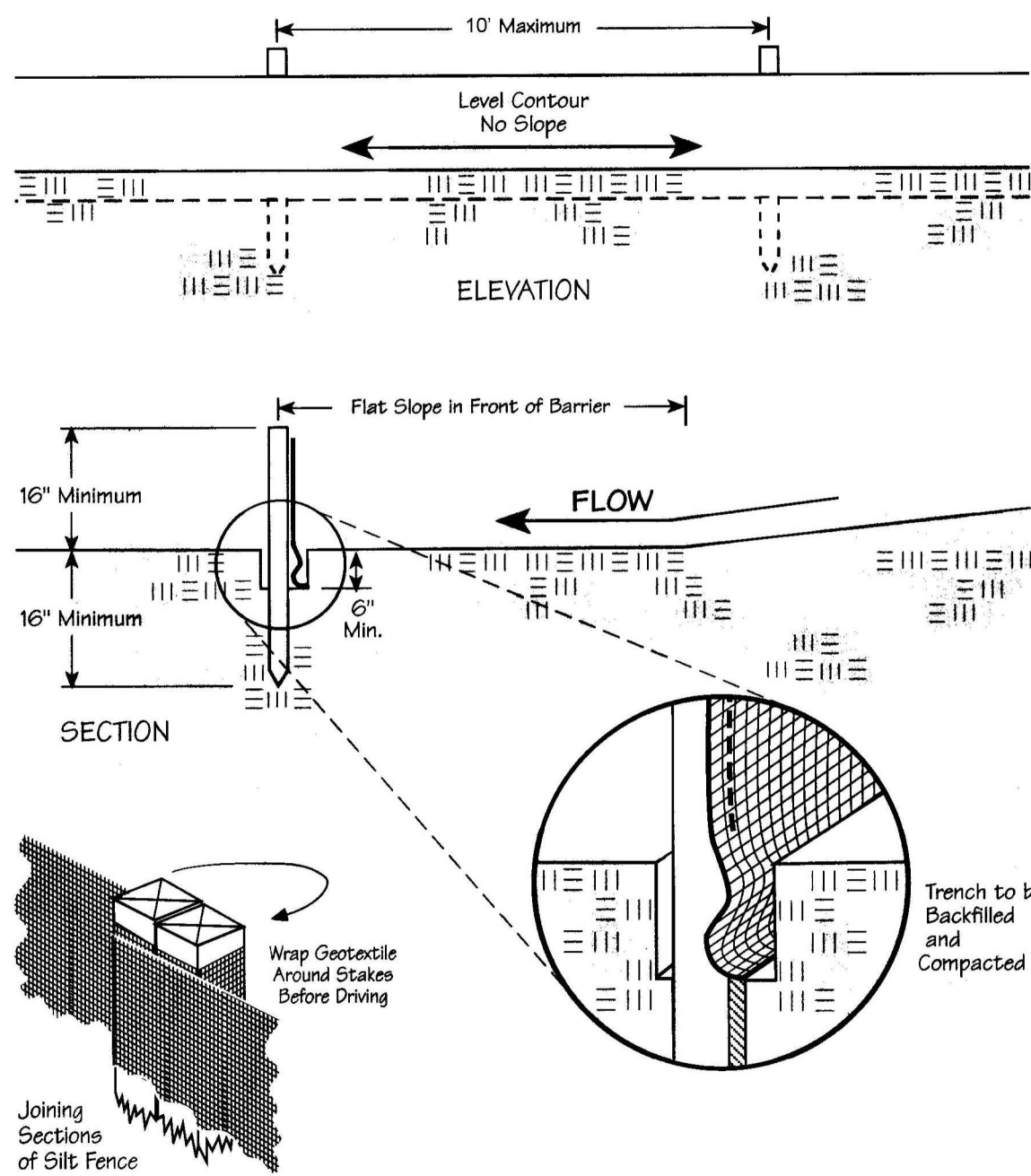


RECORD CONSTRUCTION 8/19/24

FELLER, FINCH & ASSOCIATES, INC.			
REVISION	DATE	DESIGN BY:	CMG
		DRAWN BY:	RSP
		DATE:	2-6-23
		CHK'D BY:	CMG
		DRAWING:	10-072320P0408



RECORD CONSTRUCTION 8/19/24



Specifications for Silt Fence

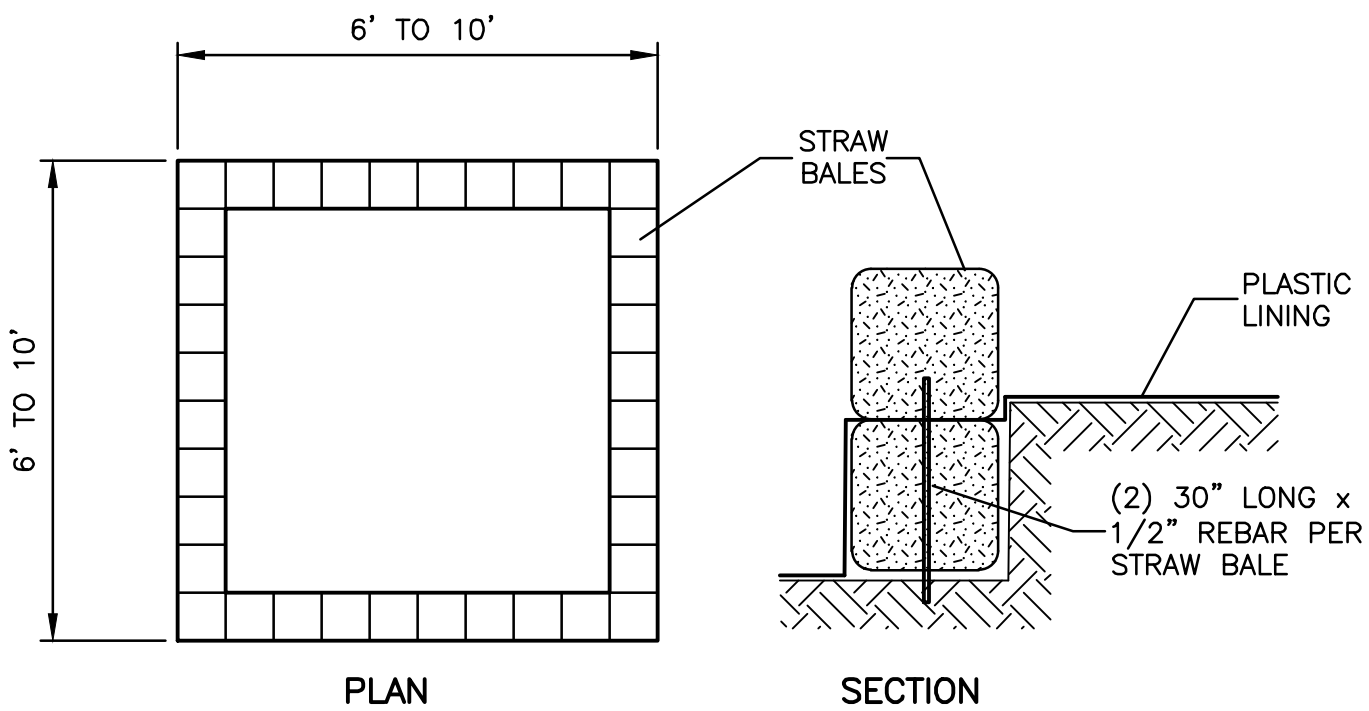
- Silt fence shall be constructed before upslope land disturbance begins.
- All silt fence shall be placed as close to the contour as possible so that water will not concentrate at low points in the fence and so that small swales or depressions which may carry small concentrated flows to the silt fence are dissipated along its length.
- To prevent water ponded by the silt fence from flowing around the ends, each end shall be constructed upslope so that the ends are at a higher elevation.
- Where possible, silt fence shall be placed on the flattest area available.
- Where possible, vegetation shall be preserved for 5 ft. (or as much as possible) upslope from the silt fence. If vegetation is removed, it shall be reestablished within 7 days from the installation of the silt fence.
- The height of the silt fence shall be a minimum of 16 in. above the original ground surface.
- The silt fence shall be placed in a trench cut a minimum of 6 in. deep. The trench shall be cut with a trencher, cable laying machine, or other suitable device which will ensure an adequately uniform trench depth.
- The silt fence shall be placed with the stakes on the downslope side of the geotextile and so that 8 in. of cloth are below the ground surface. Excess material shall lay on the bottom of the 6-in.-deep trench. The trench shall be backfilled and compacted.
- Seams between section of silt fence shall be overlapped with the end stakes of each section wrapped together before driving into the ground.
- Maintenance--Silt fence shall allow runoff to pass only as diffuse flow through the geotextile. If runoff overtops the silt fence, flows under or around the ends, or in any other way becomes a concentrated flow, one of the following shall be performed, as appropriate: 1) The layout of the silt fence shall be changed, 2) Accumulated sediment shall be removed, or 3) Other practices shall be installed.

Criteria for Silt Fence Materials

- Fence Posts--The length shall be a minimum of 32 in. long. Wood posts will be 2-by-2-in. hardwood of sound quality. The maximum spacing between posts shall be 10 ft.
- Silt Fence Fabric (see chart below):

Fabric Properties	Values	Test Method
Grab Tensile Strength	90 lb. minimum	ASTM D 1682
Mullen Burst Strength	190 psi minimum	ASTM D 3786
Slurry Flow Rate	0.3 gal./min./ft ² maximum	
Equivalent Opening Size	40-80	US Std. Sieve CW-02215
Ultraviolet Radiation Stability	90% minimum	ASTM-G-26

F FILTER FABRIC FENCE

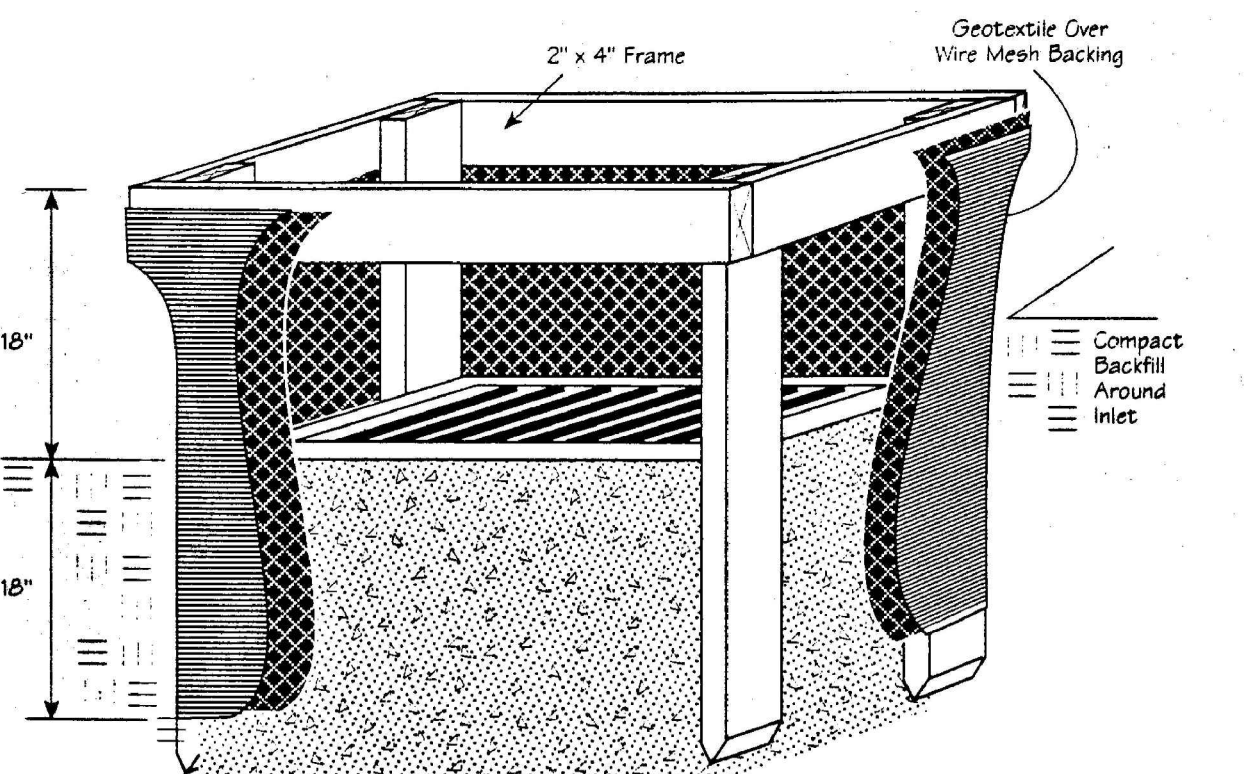


NOTE: CONTRACTOR CAN USE PORTABLE CONCRETE WASHOUT AREAS IN LIEU OF CONCRETE WASHOUT BASINS (RECOMMENDED).

WASHOUT AREAS MUST HAVE SOME FORM OF PLASTIC LINING.

G CONCRETE WASHOUT AREA

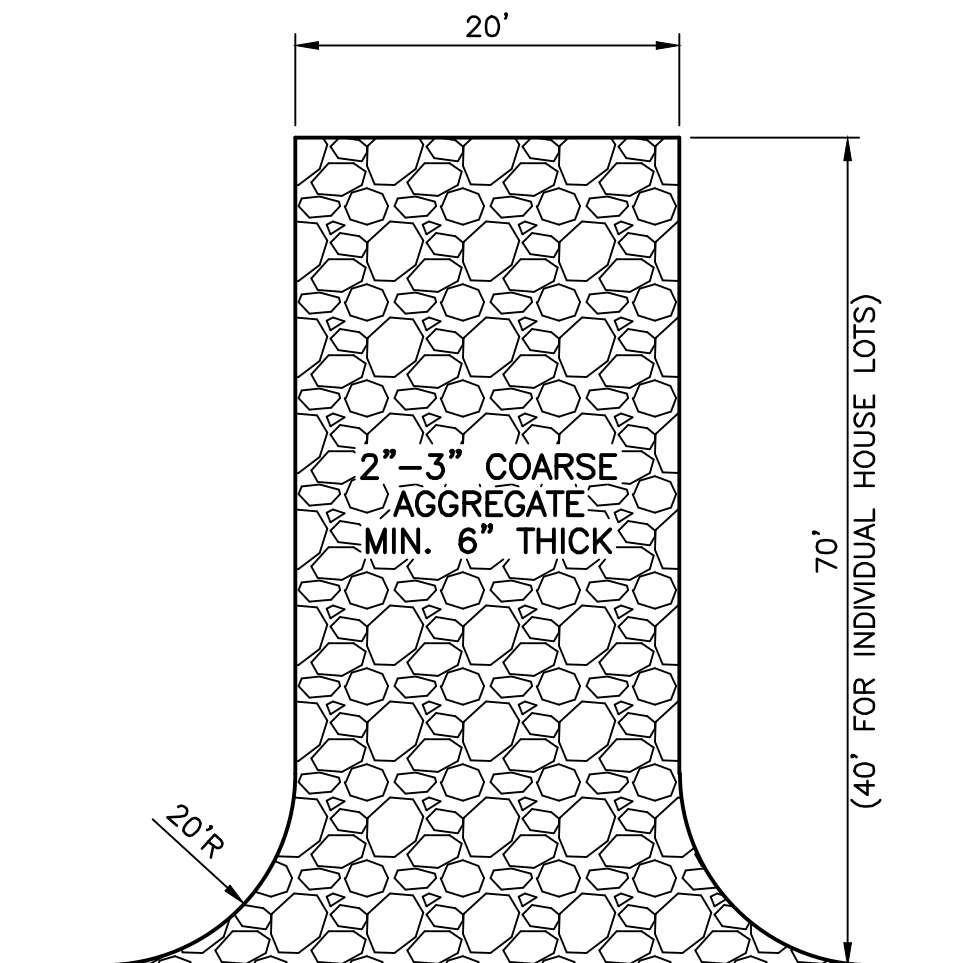
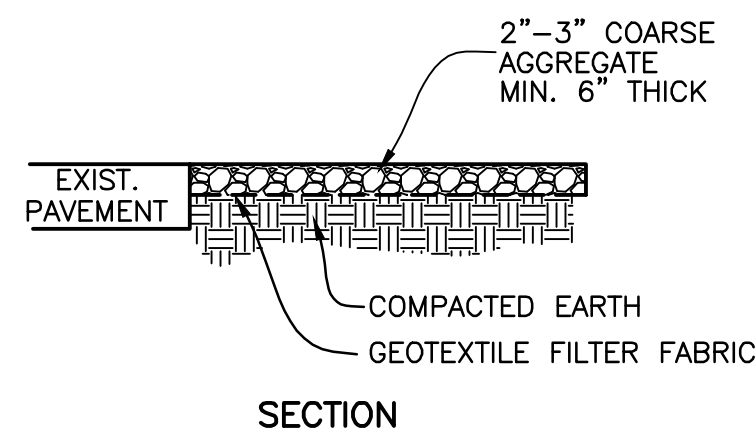
NOT TO SCALE



- Inlet protection shall be constructed either before upslope land disturbance begins or before the storm drain becomes operational.
- The earth around the inlet shall be excavated completely to a depth at least 18 in.
- The wooden frame shall be constructed of 2-by-4-in. construction-grade lumber. The 2-by-4-in. posts shall be driven 1 ft. into the ground at four corners of the inlet and the top portion of 2-by-4-in. frame assembled using the overlap joint shown. The top of the frame shall be at least 6 in. below adjacent roads if ponded water would pose a safety hazard to traffic.
- Wire mesh shall be of sufficient strength to support fabric with water fully impounded against it. It shall be stretched tightly around the frame and fastened securely to the frame.
- Geotextile shall have an equivalent opening size of 20-40 sieve and be resistant to sunlight. It shall be stretched tightly around the frame and fastened securely. It shall extend from the top of the frame to 18 in. below the inlet notch elevation. The geotextile shall overlap across one side of the inlet so the ends of the cloth are not fastened to the same post.
- Backfill shall be placed around the inlet in compacted 6-in. layers until the earth is even with notch elevation on ends and top elevation on sides.
- A compacted earth dike or a check dam shall be constructed in the ditch line below the inlet if the inlet is not in a depression and if runoff bypassing the inlet will not flow to a settling pond. The top of earth dikes shall be at least 6 in. higher than the top of the frame.

A INLET PROTECTION FILTER (OR APPROVED EQUAL) IN SWALES, DITCH LINES OR YARD INLETS

N.T.S.



IF MUD MAT BECOMES CLOGGED WITH SEDIMENT SO THAT IT NO LONGER ADEQUATELY PERFORMS ITS FUNCTION, THE STONE MUST BE CLEANED AND REPLACED.

ALL EQUIPMENT LEAVING SITE MUST USE MUD MAT AND HAVE LOADS STABILIZED AND TIGHT WITH ALL LOOSE DEBRIS AND MATTER REMOVED PRIOR TO TRAVELING ON PUBLIC ROADWAYS.

ANY TRACK-OUT NOT CONTAINED BY THE MUD MAT MUST BE CLEANED UP BY THE CONTRACTOR IMMEDIATELY AFTER OCCURRENCE NO LATTER.

E CONSTRUCTION ENTRANCE "MUD MAT" DETAIL

NOT TO SCALE

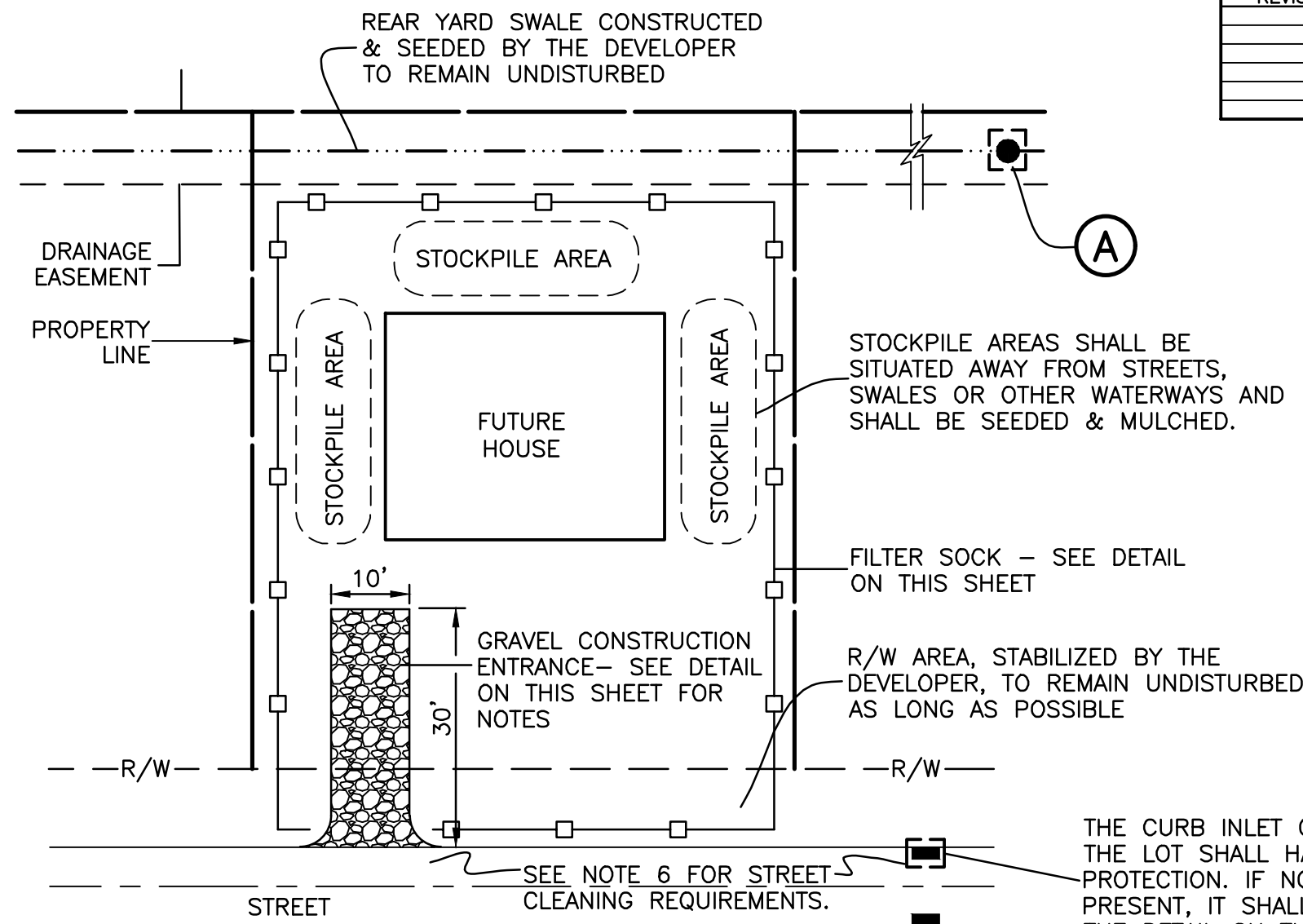
SPECIFICATIONS FOR SMALL LOT BUILDING SITES

- Preexisting vegetation shall be retained on idle portions of the building lot for as long as construction operations allow. Clearing shall be done so only active working areas are bare.
- Temporary seed (annual rye, oats, etc.) and/or mulch shall be applied to areas, such as stockpiles, that are bare and not actively being worked. This shall apply to areas that will not be reworked for 14 days or more.
- Stockpiles excavated from basements shall be situated away from streets, swales, or other waterways and shall be seeded and/or mulched.
- Silt fence shall control sheet flow runoff from the building lot. It shall not be constructed in channels or areas of concentrated flow. Other sediment controls such as inlet protection and sediment traps shall also be used as needed to control sediment runoff.
- Construction vehicle access shall be limited to one route, to the greatest extent practical. The access shall be gravel or crushed rock applied to the driveway area.
- Mud tracked onto the street or sediment settled around curb inlet protection shall be removed daily or as needed to prevent it from accumulating. It shall be removed by shovelling and scraping and shall NOT be washed off paved surfaces or into storm drains.

HOME CONSTRUCTION IMPLEMENTATION SCHEDULE

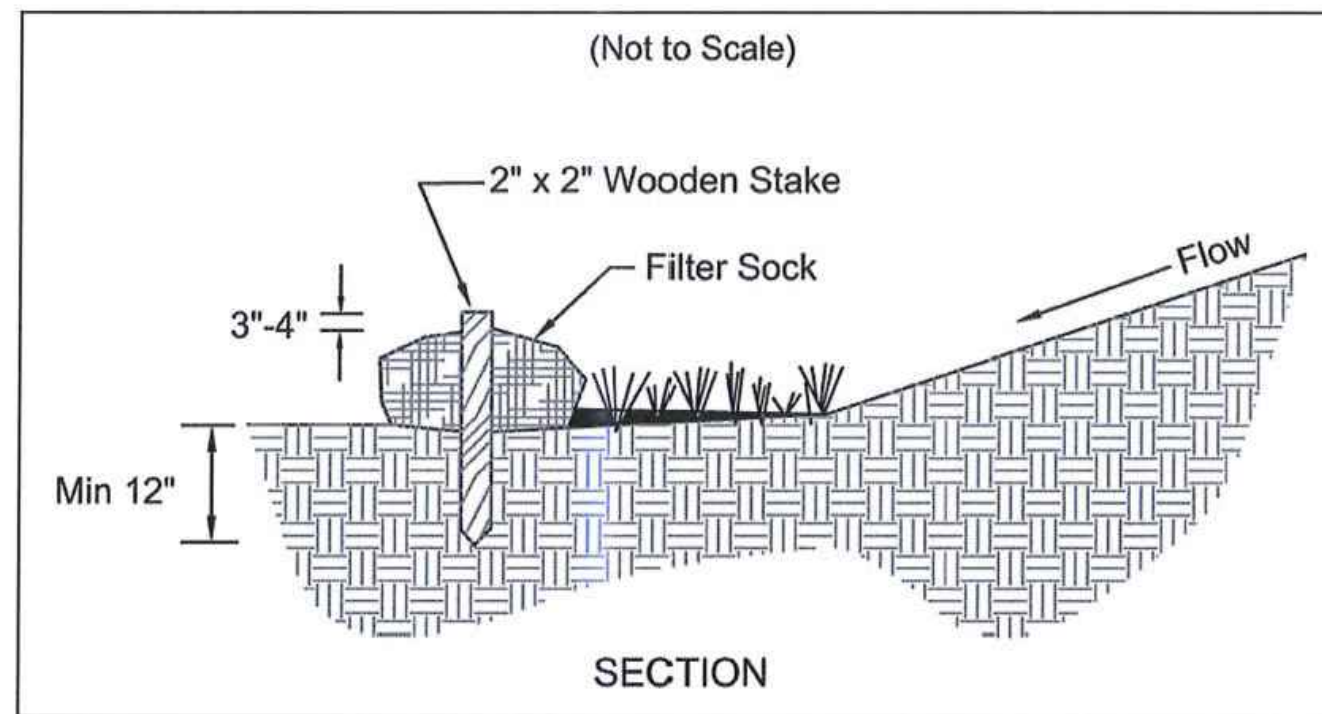
SITE STABILIZATION

- PLACE TEMPORARY SEEDING ON ALL DISTURBED AREAS (DEVELOPER).
- INSTALL PRACTICES ON ALL LOTS CURRENTLY BEING CONSTRUCTED. (SEE THIS SHEET) (INDIVIDUAL HOME BUILDERS)
- FILE A NOTICE OF TERMINATION UPON FINAL STABILIZATION OF ALL CURRENTLY DISTURBED LAND. (DEVELOPER)
- REVISE THIS EPSC PRIOR TO ANY FURTHER EARTH DISTURBING ACTIVITIES. (DEVELOPER)



INDIVIDUAL LOT SWP3

Specifications for Filter Sock



- Materials -- Compost used for filter socks shall be weed, pathogen and insect free and free of any refuse, contaminants or other materials toxic to plant growth. They shall be derived from a well-decomposed source of organic matter and consist of a particles ranging from 3/8" to 2".
- Filter Socks shall be 3 or 5 mil continuous, tubular, HDPE 3/8" knitted mesh netting material, filled with compost passing the above specifications for compost products.
- Filter socks will be placed on a level line across slopes, generally parallel to the base of the slope or other affected area. On slopes approaching 2:1, additional socks shall be provided at the top and as needed mid-slope.
- Filter socks intended to be left as a permanent filter or part of the natural landscape, shall be seeded at the time of installation for establishment of permanent vegetation.
- Filter Socks are not to be used in concentrated flow situations or in runoff channels.
- Maintenance: Routinely inspect filter socks after each significant rain, maintaining filter socks in a functional condition at all times.
- Remove sediments collected at the base of the filter socks when they reach 1/3 of the exposed height of the practice.
- Where the filter sock deteriorates or fails, it will be repaired or replaced with a more effective alternative.
- Removal -- Filter socks will be dispersed on site when no longer required in such as way as to facilitate and not obstruct seedings.

J FILTER SOCK

RECORD CONSTRUCTION 8/19/24

D CONSTRUCTION SEEDING

Temporary Seeding Species Selection			
Seeding Dates	Species	Lb./1,000 ft. ²	Per Ac.
March 1 to August 15	Oats	3	4 bushel
	Tall Fescue	1	40 lb.
	Annual Ryegrass	1	40 lb.
	Perennial Ryegrass	1	40 lb.
August 16 to November 1	Tall Fescue	1	40 lb.
	Annual Ryegrass	1	40 lb.
	Wheat	3	2 bushel
	Tall Fescue	1	40 lb.
	Annual Ryegrass	1	40 lb.
	Perennial Ryegrass	1	40 lb.
	Tall Fescue	1	40 lb.
	Annual Ryegrass	1	40 lb.
November 1 to Spring Seeding Use mulch only, sodding practices or dormant seeding.			
Note: Other approved seed species may be substituted.			

1. Structural erosion- and sediment-control practices such as diversions and sediment traps shall be installed and stabilized with temporary seeding prior to grading the rest of the construction-site.

2. Temporary seed shall be applied between construction operations on soil that will not be graded or reworked for 45 days or more. These idle areas should be seeded as soon as possible after grading or shall be seeded within 7 days. Several applications of temporary seeding are necessary on typical construction projects.

3. The seedbed should be pulverized and loose to ensure the success of establishing vegetation. However, temporary seeding shall not be postponed if ideal seedbed preparation is not possible.
4. Soil Amendments--Applications of temporary vegetation shall establish adequate stands of vegetation which may require the use of soil amendments. Soil tests should be taken on the site to predict the need for lime and fertilizer.

5. Seeding Method--Seed shall be applied uniformly with a cyclone seeder, drill, cultipacker seeder, or hydroseeder. When feasible, seed that has been broadcast shall be covered by raking or dragging and then lightly tamped into place using a roller or cultipacker. If hydroseeding is used, the seed and fertilizer will be mixed on-site and the seeding shall be done immediately and without interruption.

INSPECTION

Procedures in this SWP3 shall provide that all controls on the site are inspected at least once every seven calendar days and within 24 hours after any storm event greater than one-half inch of rain per 24 hour period. The inspection frequency may be reduced to at least once every month if the entire site is temporarily stabilized or runoff is unlikely due to weather conditions (e.g., site is covered with snow, ice, or the ground is frozen). A waiver of inspection requirements is available until one month before thawing conditions are expected to result in a discharge if all of the following conditions are met: the project is located in an area where frozen conditions are anticipated to continue for extended periods of time (i.e., more than one month); land disturbance activities have been suspended; and the beginning and ending dates of the waiver period are documented in the SWP3. The permittee shall assign qualified inspection personnel (those with knowledge and experience in the installation and maintenance of sediment and erosion controls) to conduct these inspections to ensure that the control practices are functional and to evaluate whether the SWP3 is adequate and properly implemented in accordance with the schedule proposed in Part III. G.1.g of this permit or whether additional control measures are required. Disturbed areas and areas used for storage of materials that are exposed to precipitation shall be inspected for evidence of, or the potential for, pollutants entering the drainage system. Erosion and sediment control measures identified in the SWP3 shall be observed to ensure that those are operating correctly. Discharge locations shall be inspected to ascertain whether erosion and sediment control measures are effective in preventing significant impacts to the receiving waters. Locations where vehicles enter or exit the site shall be inspected for evidence of off-site vehicle tracking.

The permittee shall maintain for three years following the submittal of a notice of termination form, a record summarizing the results of the inspections, names(s) and qualifications of personnel making the inspection, the date(s) of the inspection, signature of the inspector, major observations relating to the implementation of the SWP3 and a certification as to whether the facility is in compliance with the SWP3 and the permit and identify any incidents of non-compliance. The record and certification shall be signed in accordance with Part V.G. of the permit.

- a. When practices require repair or maintenance. If the inspection reveals that a control practice is in need of repair or maintenance, with the exception of a sediment settling pond, it must be repaired or maintained within three days of the inspection. Sediment settling ponds must be repaired or maintained within 10 days of the inspection.

b. When practices fail to provide their intended function. If the inspection reveals that a control practice fails to perform its intended function and that another, more appropriate control practice is required, the SWP3 must be amended and the new control practice must be installed within 10 days of the inspection.

c. When practices depicted on the SPW3 are not installed. If the inspection reveals that a control practice has not been implemented in accordance with the schedule contained in Part III.G.1.g of this permit, the control practice must be implemented within 10 days from the date of the inspection. If the inspection reveals that the planned control practice is not needed, the record must contain a statement of explanation as to why the control practice is not needed.

MAINTENANCE

All temporary and permanent control practice shall be maintained and repaired as needed to ensure continued performance of their intended function. All sediment control practices must be maintained in a functional condition until all up slope areas they control are permanently stabilized. The SWP3 shall be designed to minimize maintenance requirements. The applicant shall provide a description of maintenance procedures needed to ensure the continued performance of control practices.

MULCHING TEMPORARY SEEDING

1. Applications of temporary seeding shall include mulch which shall be applied during or immediately after seeding. Seedlings made during optimum seeding dates and with favorable soil conditions and on very flat areas may not need mulch to achieve adequate stabilization.

2. Materials:
 - Straw--If straw is used, it shall be unrotted small-grain straw applied at the rate of 2 tons/ac. or 90 lb./1,000 sq. ft. (two to three bales). The mulch shall be spread uniformly by hand or mechanically so the soil surface is covered. For uniform distribution of hand-spread mulch, divide area into approximately 1,000-sq.-ft. sections and spread two 45-lb. bales of straw in each section.
 - Hydroseeders--If wood cellulose fiber is used, it shall be used at 2,000 lb./ac. or 46 lb./1,000 sq. ft.
 - Other--Other acceptable mulches include mulch mattings applied according to manufacturer's recommendations or wood chips applied at 6 tons/ac.
3. Straw mulch shall be anchored immediately to minimize loss by wind or water. Anchoring Methods:
 - Mechanical--A disk, crimper, or similar type tool shall be set straight to punch or anchor the mulch material into the soil. Straw mechanically anchored shall not be finely chopped but, generally, be left longer than 6 in..
 - Mulch Nettings--Nettings shall be used according to the manufacturer's recommendations. Netting may be necessary to hold mulch in place in areas of concentration runoff and on critical slopes.
 - Asphalt Emulsion--Asphalt shall be applied as recommended by the manufacturer or at the rate of 160 gal./ac.
 - Synthetic Binders--Synthetic binders such as Acrylic DLR (Agri-Tac), DCA-70, Petroset, Terra Tack or equal may be used at rates recommended by the manufacturer.
 - Wood-Cellulose Fiber--Wood-cellulose fiber binder shall be applied at a net dry weight of 750 lb./ac. The wood-cellulose fiber shall be mixed with water and the mixture shall contain a maximum of 50 lb./100 gal.

C D MULCHING

Specifications for Mulching

1. Mulch and/or other appropriate vegetative practices shall be applied to disturbed areas within 7 days of grading if the area is to remain dormant (undisturbed) for more than 14 days or on areas and portions of the site which can be brought to final grade.

2. Mulch shall consist of one of the following:
 - Straw--Straw shall be unrotted small grain straw applied at the rate of 2 tons/ac. or 90 lb./1,000 sq. ft. (two to three bales). The straw mulch shall be spread uniformly by hand or mechanically so the soil surface is covered. For uniform distribution of hand-spread mulch, divide area into approximately 1,000-sq.-ft. sections and place two 45-lb. bales of straw in each section.
 - Hydroseeders--Wood cellulose fiber should be used at 2,000 lb./ac. or 46 lb./1,000 sq. ft.
 - Other--Other acceptable mulches include mulch mattings applied according to manufacturer's recommendations or wood chips applied at 10-20 tons/ac.
3. Mulch Anchoring--Mulch shall be anchored immediately to minimize loss by wind or runoff. The following are acceptable methods for anchoring mulch.
 - Mechanical--Use a disk, crimper, or similar type tool set straight to punch or anchor the mulch material into the soil. Straw mechanically anchored shall not be finely chopped but be left generally longer than 6 in.
 - Mulch Nettings--Use according to the manufacturer's recommendations, following all placement and anchoring suggestions. Use in areas of water concentration and steep slopes to hold mulch in place.
 - Asphalt Emulsion--For straw mulch, apply at the rate of 160 gal./ac. (0.1 gal./sy) into the mulch as it is being applied or as recommended by the manufacture.
 - Synthetic Binders--For straw mulch, synthetic binders such as Acrylic DLR (Agri-Tac), DCA-70, Petroset, Terra Tack or equal may be used at rates recommended by the manufacturer.
 - Wood Cellulose Fiber--Wood cellulose fiber may be used for anchoring straw. The fiber binder shall be applied at a net dry weight of 750 lb./acre. The wood cellulose fiber shall be mixed with water and the mixture shall contain a maximum of 50 lb./100 gal. of wood cellulose fiber.

NON--SEDIMENT POLLUTANTS

No discharge of pollutants associated with dedicated asphalt and concrete plants are permitted on site. This includes, but is not limited to, the discharge of concrete or vehicle wash water.

No solid (other than sediment) or liquid waste, including building materials, shall be discharged in storm water runoff. All wastes must be disposed of in a proper manner in accordance with local, state & federal regulations.

It is prohibited to burn, bury or pour onto the ground or into a storm water conveyance system any solvent, paints, stains, gasoline, diesel fuel, hydraulic fluid, used motor oil, anti-freeze, cement curing compounds and other such solids or hazardous wastes. Any rinse waters containing such materials are prohibited from being placed where they may enter drainageways.

Fueling and equipment maintenance shall be performed in diked areas away from drainage channels.

All contaminated soils must be treated and/or disposed of in Ohio EPA approved solid waste management facilities. If hazardous substances such as oil, diesel fuel, anti-freeze, etc. are leaked onto the soil, the soil should be dug up and disposed of at the local licensed landfill. Spills of 25 gallons or more shall be reported to the OEPA, the local fire department and the local emergency planning committee.

Open burning of waste materials will not be permitted.

All materials stored on site shall be limited to areas which are protected to minimize the exposure of such materials to storm water.

C PERMANENT SEEDING

SITE PREPARATION

1. A subsoiler, plow or other implement shall be used to reduce soil compaction and allow maximum infiltration. (Maximizing infiltration will help control both runoff rate and water quality.) Subsoiling should be done when the soil moisture is low enough to allow the soil to crack or fracture. Subsoiling shall not be done on slip-prone areas where soil preparation should be limited to what is necessary for establishing vegetation.

2. The site shall be graded as needed to permit the use of conventional equipment for seedbed preparation and seeding.

3. Resoil shall be applied where needed to establish vegetation.

SEEDBED PREPARATION

1. Lime--Agricultural ground limestone shall be applied to acid soil as recommended by a soil test. In lieu of a soil test, lime shall be applied at the rate of 100 lb./1,000 sq. ft. or 2 tons/ac.

2. Fertilizer--Fertilizer shall be applied as recommended by a soil test. In lieu of a soil test, fertilizer shall be applied at a rate of 12 lb./1,000 sq. ft. or 500 lb./ac. of 10-10-10 or 12-12-12 analysis.

3. The lime and fertilizer shall be worked into the soil with a disk harrow, spring-tooth harrow, or other suitable field implement to a depth of 3 in. On sloping land the soil shall be worked on the contour.

SEEDING DATES AND SOIL CONDITIONS

Seeding should be done March 1 to May 31 or Aug 1 to September 30. These seeding dates are ideal but, with the use of additional mulch and irrigation, seedings may be made any time throughout the growing season. Tillage/seedbed preparation should be done when the soil is

MULCHING

1. Mulch material shall be applied immediately after seeding. Seedlings made during optimum seeding dates and with favorable soil conditions and on very flat areas may not need mulch to achieve adequate stabilization. Dormant seeding shall be mulched.

2. Materials:
 - Straw--If straw is used it shall be unrotted small-grain straw applied at the rate of 2 tons/ac. or 90 lb./1,000 sq. ft. (two to three bales). The mulch shall be spread uniformly by hand or mechanically so the soil surface is covered. For uniform distribution of hand-spread mulch, divide area into approximately 1,000-sq.-ft. sections and spread two 45-lb. bales of straw in each section.
 - Hydroseeders--If wood cellulose fiber is used, it shall be used at 2,000 lb./ac. or 46 lb./1,000 sq. ft.
 - Other--Other acceptable mulches include mulch mattings applied according to manufacturer's recommendations or wood chips applied at 6 tons/ac.
3. Straw Mulch Anchoring Methods

Straw mulch shall be anchored immediately to minimize loss by wind or water.
 - Mechanical--A disk, crimper, or similar type tool shall be set straight to punch or anchor the mulch material into the soil. Straw mechanically anchored shall not be finely chopped but, generally, be left longer than 6 in.

dry enough to crumble and not form ribbons when compressed by hand. For winter seeding, see the following section on dormant seeding.

DORMANT SEEDINGS.

1. Seedlings shall not be planted from October 1 through November 20. During this period the seeds are likely to germinate but probably will not be able to survive the winter.

2. The following methods may be used for "Dormant Seeding":
 - From October 1 through November 20, prepare the seedbed, add the required amounts of lime and fertilizer, then mulch and anchor. After November 20, and before March 15, broadcast the selected seed mixture. Increase the seeding rates by 50% for this type of seeding.
 - From November 20 through March 15, when soil conditions permit, prepare the seedbed, lime and fertilize, apply the selected seed mixture, mulch and anchor. Increase the seeding rates by 50% for this type of seeding.
 - Apply seed uniformly with a cyclone seeder, drill, cultipacker seeder, or hydro-seeder (slurry may include seed and fertilizer) on a firm, moist seedbed.
 - Where feasible, except when a cultipacker type seeder is used, the seedbed should be firmed following seeding operations with a cultipacker, roller, or light drag. On sloping land, seeding operations should be on the contour where feasible.

Permanent Seeding			
Seed Mix	Seeding Rate		Notes:
	lb./ac.	lb./1,000ft. ²	
General Use			
Creeping Red Fescue	20-40	½-1	
Domestic Ryegrass	10-20	¼-½	
Kentucky Bluegrass	10-20	¼-½	
Tall Fescue	40	1	
Dwarf Fescue	40	1	
Steep Banks or Cut Slopes			
Tall Fescue	40	1	
Crown Vetch	10	¼	Do not seed later than August.
Tall Fescue	20	½	
Flat Pea	20	½	Do not seed later than August.
Tall Fescue	20	½	
Road Ditches and Swales			
Tall Fescue	40	1	
Dwarf Fescue	90	2 ¼	
Kentucky Bluegrass	5		
Lawns			
Kentucky Bluegrass	60	1 ½	
Perennial Ryegrass	60	1 ½	
Kentucky Bluegrass	60	1 ½	For shaded areas
Creeping Red Fescue	60	1 ½	
Note: Other approved seed species may be substituted.			

1. Permanent seeding shall not be considered established for at least 1 full yr. from the time of planting. Seeded areas shall be inspected for failure and vegetation reestablished as needed. Depending on-site conditions, it may be necessary to irrigate, fertilize, overseed, or reestablish plantings in order to provide permanent vegetation for adequate erosion control.

2. Maintenance fertilization rates shall be established by soil test recommendations or by using the rates shown in the following table.

Maintenance for Permanent Seedings Fertilization and Mowing					
Mixture	Formula	lb./ac.	lb./1,000 ft. ²	Time	Mowing
Creeping Red Fescue Ryegrass Kentucky Bluegrass	10-10-10	500	12	Fall, yearly or as needed.	Not closer than 3"
Tall Fescue	10-10-10	500	12		Not closer than 4"
Dwarf Fescue	10-10-10	500	12		Not closer than 2"
Crown Vetch Fescue	0-20-20	400	10	Spring, yearly following establishment and every 4-7 yr. thereafter	Do not mow
Fiat Pea Fescue	0-20-20	400	10		Do not mow
Note: Following soil test recommendations is preferred to fertilizer rates shown above.					

NOTES:
IF SEASONAL CONDITIONS PROHIBIT THE ESTABLISHMENT OF VEGETATIVE COVER, OTHER METHODS OF STABILIZATION SUCH AS MULCHING WITH A TACKIFIER OR MATTING, MUST BE EMPLOYED AND MAINTAINED UNTIL A MORE PERMANENT METHOD CAN BE IMPLEMENTED.

STORMWATER CONTROLS (INLET PROTECTION, PERIMETER CONTROLS, SKIMMER, ECT.) STAY IN PLACE THROUGHOUT THE HOME BUILDING PHASE.

Table 1: Permanent Stabilization

Area requiring permanent stabilization	Time frame to apply erosion controls
Any areas that will lie dormant for one year or more	Within seven days of the most recent disturbance
Any areas within 50 feet of a surface water of the state and at final grade	Within two days of reaching final grade
Any other areas at final grade	Within seven days of reaching final grade within that area

Table 2: Temporary Stabilization

Area requiring temporary stabilization	Time frame to apply erosion controls
Any disturbed areas within 50 feet of a surface water of the state and not at final grade	Within two days of the most recent disturbance if the area will remain idle for more than 14 days
For all construction activities, any disturbed areas that will be dormant for more than 14 days but less than one year, and not within 50 feet of a surface water of the state	Within seven days of the most recent disturbance within the area
Disturbed areas that will be idle over winter	For residential subdivisions, disturbed areas must be stabilized at least seven days prior to transfer of permit coverage for the individual lot(s).
	Prior to the onset of winter weather

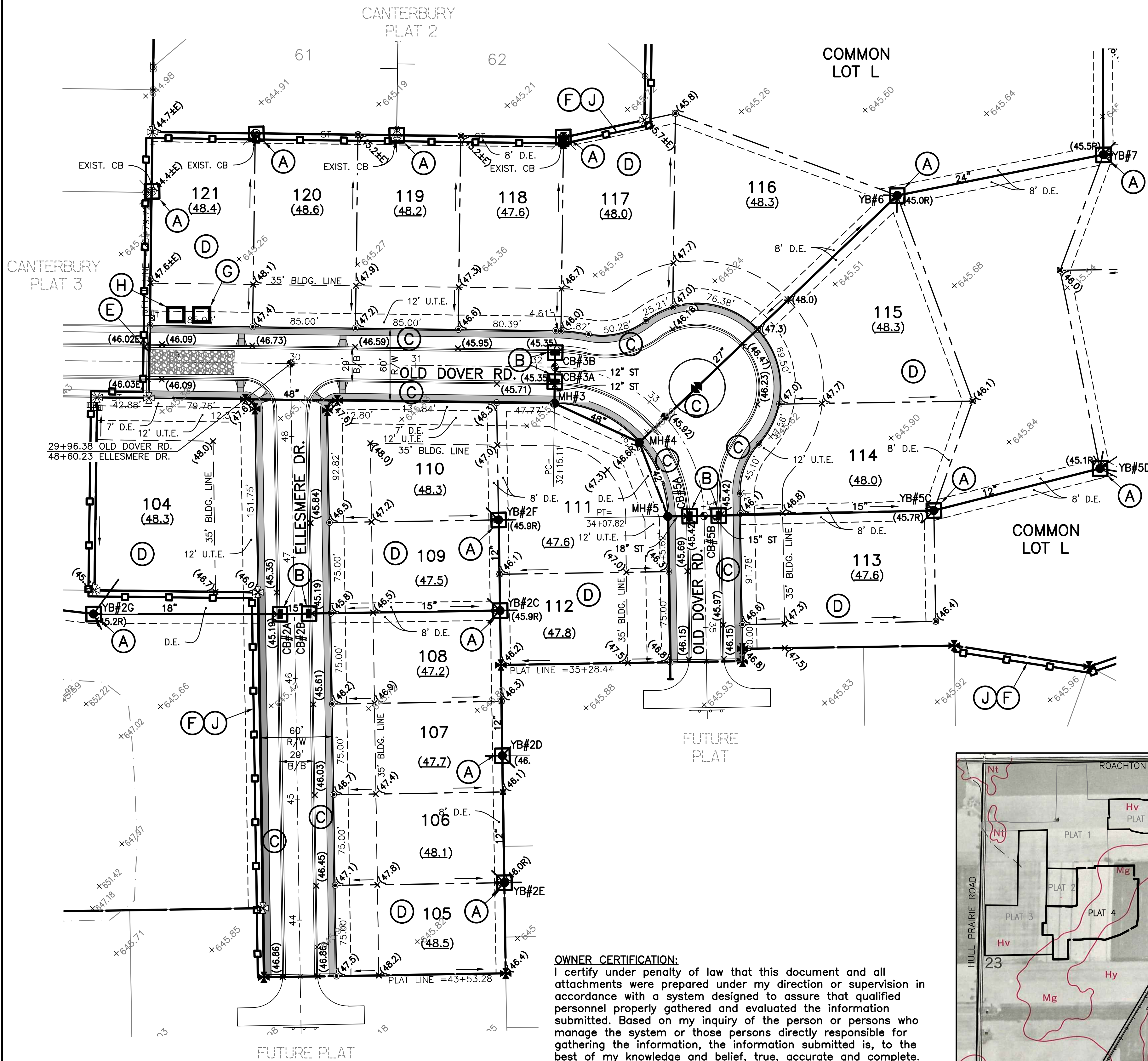
Where vegetative stabilization techniques may cause structural instability or are otherwise unobtainable, alternative stabilization techniques must be employed. Permanent and temporary stabilization are defined in Part VII.

RECORD CONSTRUCTION 8/19/24

EASEMENT ABBREVIATIONS			
D.E.		DRAINAGE EASEMENT	
U.T.E.		UTILITY & TOLEDO EDISON EASEMENT	



FELLER, FINCH & ASSOCIATES, INC.			
REVISION	DATE	DESIGN BY: CMG	
		DRAWN BY: RSP	
		DATE: 2-6-23	
		CHK'D BY: CMG	
		DRAWING: 10-07332P0408	



OWNER CERTIFICATION:
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME _____ DATE _____

SEEDING AND MULCHING

SEEDING AND MULCHING SHALL BE AS PER ODOT SPECIFICATION ITEM 659, USING SEEDING MIXTURE: 90% PERENNIAL RYEGRASS (LOLIUM PERENNE) 10% ALSIKE CLOVER (TRIFOLIUM HYBRIDUM). SEEDING AND MULCHING SHALL INCLUDE ALL PROPOSED RIGHTS OF WAY, EASEMENTS, AND ALL DISTURBED AREAS WITHIN EXISTING CITY OF PERRYSBURG RIGHTS OF WAY.

1. CONSTRUCTION SEEDING AND MULCHING SHALL BE COMPLETED ON ALL DISTURBED AREAS WITHIN SEVEN (7) DAYS IF THESE AREAS ARE TO REMAIN UNDISTURBED FOR MORE THAN 14 DAYS.
2. PERMANENT OR CONSTRUCTION SEEDING AND MULCHING SHALL BE APPLIED TO DISTURBED AREAS WITHIN SEVEN (7) DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE.
3. WHEN SEASONAL CONDITIONS PROHIBIT THE APPLICATION OF CONSTRUCTION OR PERMANENT SEEDING, NON-VEGETATIVE SOIL STABILIZATION PRACTICES SUCH AS MULCHING & MATTING SHALL BE USED.

NOTE:

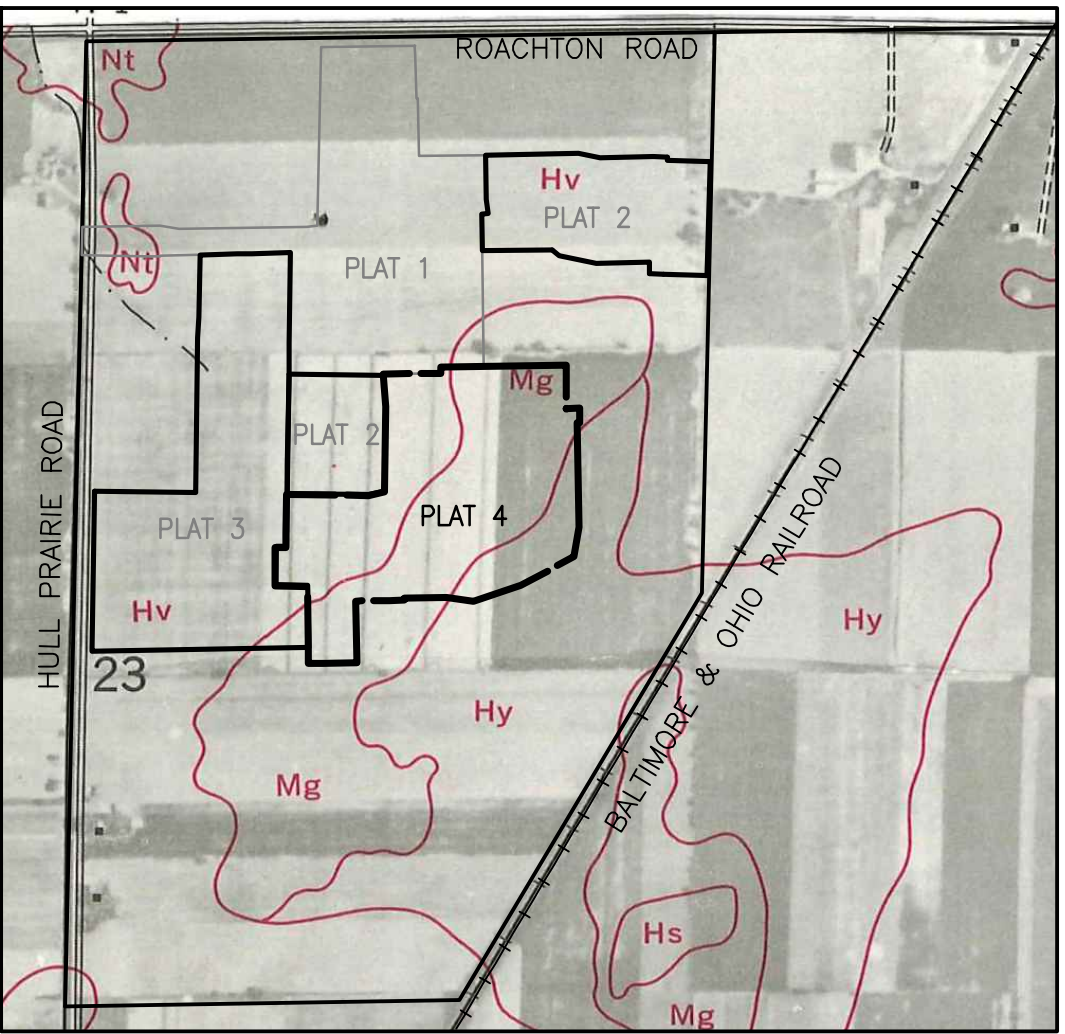
A COMPLETE SWP3 PACKET SHOULD BE AVAILABLE ONSITE AT A MAILBOX OR JOB TRAILER AT ALL TIMES DURING WORKING HOURS. THE SWP3 PACKET SHALL INCLUDE:

- THE SWP3 PLANS
- A COPY OF THE NOI AND APPROVAL FROM THE EPA
- INSPECTION LOGS OF WEEKLY INSPECTIONS AND INSPECTIONS AFTER A 1/2" RAIN EVENT.
- SUB-CONTRACTOR SIGN-OFF LOGS, SHARING AWARENESS OF THE SWP3

_____ SHALL BE IN CHARGE OF ALL INSPECTIONS AND FELLER, FINCH & ASSOCIATES, INC. SHALL BE IN CHARGE OF REVISIONS DURING CONSTRUCTION.

SEE SHEETS 26&27 FOR EROSION CONTROL NOTES AND DETAILS.

SEE SHEET 7 FOR EX. WATER QUALITY OUTLET STRUCTURE.



SOILS MAP

1"=800'
Hv = HOYTVILLE CLAY
Mg = MERMILL SANDY CLAY LOAM
Hy = HOYTVILLE CLAY LOAM
Nt = NAPPANEE SILTY CLAY LOAM

NOTE:

1. NO SURFACE WATER SHALL BE ALLOWED TO RUN OFF THE SITE UNTIL FINAL GRADING IS COMPLETED. THE CONTRACTOR SHALL DIVERT ALL SURFACE WATER TO THE EXISTING BASIN AS REQUIRED.
2. THE HOME BUILDER SHALL INSTALL AND MAINTAIN A "GRAVEL CONSTRUCTION ENTRANCE" TO CONTROL THE TRACKING OF DEBRIS ONTO PUBLIC ROADS. IT SHALL CONSIST OF A MINIMUM OF 6" OF 2" TO 3" SIZE STONE, 20 FEET WIDE AND 40 FEET IN LENGTH.
3. THE CONTRACTOR SHALL INSTALL AND MAINTAIN A "GRAVEL CONSTRUCTION ENTRANCE" WHERE PROPOSED ROAD MEETS EXISTING ROAD. IT SHALL CONSIST OF A MINIMUM OF 6" OF 2" TO 3" SIZE STONE, 20 FEET WIDE AND 70 FEET IN LENGTH. THE LUMP SUM PRICE BID FOR ITEM 207 "TEMPORARY CONSTRUCTION ENTRANCE" SHALL INCLUDE ALL COSTS FOR INSTALLATION AND REMOVAL AS REQUIRED.
4. LAWN INSTALLERS WILL BE REQUIRED TO CERTIFY THAT FERTILIZER APPLICATION RATES WILL NOT BE APPLIED IN EXCESS OF THE PHOSPHORUS LOADING RATE NECESSARY TO ESTABLISH NEW LAWN AND LANDSCAPING.

NOTE:

DEVELOPER SHALL BE RESPONSIBLE FOR CLEANING STORM LINES LEADING TO SEDIMENT PONDS AND THE LINES BETWEEN THE NORTH AND EAST POND THROUGH THE END OF THE HOME CONSTRUCTION PHASE.

BENCH MARK DATA

WOOD COUNTY BENCH MARK

WOOD CO. BENCH MARK BRASS DISC IN NORTHWEST HEADWALL 300'± WEST OF HULL PRAIRIE ROAD & ROACHTON ROAD INTERSECTION.

ELEVATION 644.05

SITE BENCH MARK #204

SET MAG NAIL NORTH FACE OF P & T POLE AT SOUTHEAST CORNER OF ROACHTON ROAD AND HULL PRAIRIE ROAD.

ELEVATION 644.06

SITE BENCH MARK #208

SET MAG NAIL NORTH FACE OF 13TH P & T POLE EAST OF HULL PRAIRIE ROAD ON SOUTH SIDE OF ROACHTON ROAD.

ELEVATION 645.53

LEGEND

- EXISTING GROUND ELEVATIONS
- EXISTING CONTOURS
- PROPOSED ELEVATIONS
- PROPOSED ELEVATIONS AT HOUSE
- PROPOSED RIM ELEVATION
- PROPOSED = EXISTING
- ADD 600.00 TO ALL PROPOSED SPOT ELEVATIONS.
- ALL PAVEMENT GRADES ARE TOP OF CURB.
- = IRON PIPE (BY SURVEYOR)
- ⊕ = MONUMENT ASSEMBLY (ODOT RM-1.1) BY CONTRACTOR
- ⊗ = MONUMENT ASSEMBLY (WOOD CO. TYPE A) BY SURVEYOR
- ⊗ = EXISTING MONUMENT ASSEMBLY (WOOD CO. TYPE A)
- = 5' CONCRETE WALK BY CONTRACTOR
- = 5' CONCRETE WALK & RAMPS BY OTHERS

INLET PROTECTION FILTER (OR APPROVED EQUAL) (A)

CURB INLET SEDIMENT FILTER (B)

PERMANENT SEEDING AND MULCHING (C)

CONSTRUCTION SEEDING (D)

CONSTRUCTION ENTRANCE (E)

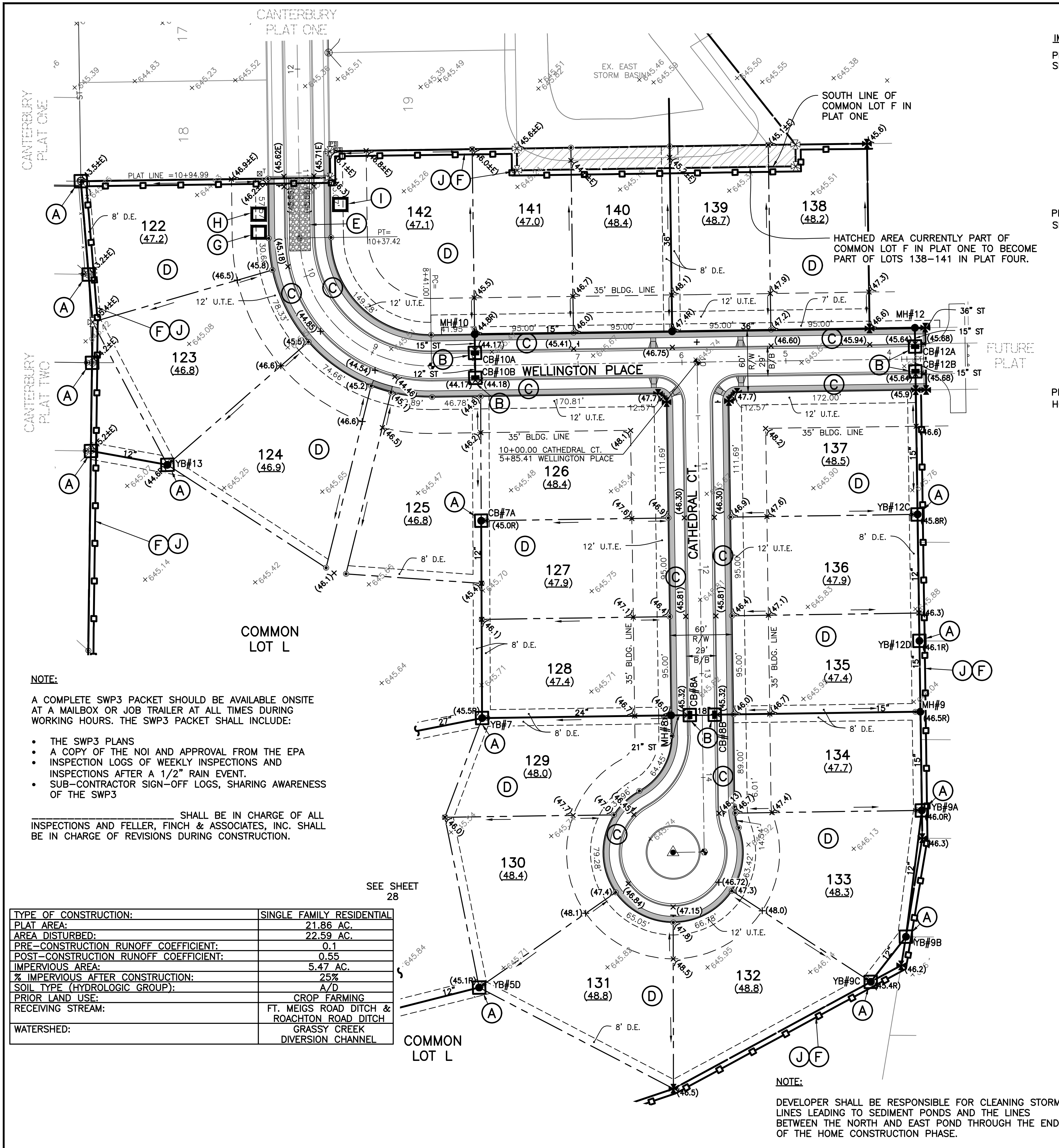
PERIMETER CONTROLS (F)(J)

CONCRETE WASHOUT AREA (G)

MATERIAL STORAGE AREA (H)

SWP3 RECORD LOCATION (I)

RECORD CONSTRUCTION 8/19/24



IMPLEMENTATION SCHEDULE

Phase I

SITE PREPARATION PHASE

- ESTIMATED START: MAY 2023; ESTIMATED COMPLETION: MAY 2023
- INSTALL SILT FENCE
- INSTALL CONSTRUCTION ENTRANCE
- CLEAR AND GRUB SITE
- INSTALL SEDIMENT CONTROLS WITHIN 7 DAYS OF CLEARING AND GRUBBING
- STABILIZATION REQUIRED IF AREAS BECOME INACTIVE FOR 14 DAYS OR LONGER
- THE STORMWATER CONTROLS WILL REMAIN FOR THE DURATION OF THE CONSTRUCTION

Phase II

SITE UTILITY AND STREET PHASE

- ESTIMATED START: MAY 2023; ESTIMATED COMPLETION: SEPTEMBER 2023
- INSTALL UNDERGROUND UTILITIES
- INSTALL INLET CONTROLS
- INSTALL CONCRETE WASHOUT
- EXCAVATE AND BUILD ROADWAY
- GRADE BACK OF CURB AND SWALES
- COMPLETE ROUGH GRADING
- INSTALL TEMPORARY SEEDING
- STABILIZATION WILL BE REQUIRED DURING THIS PHASE
- STORMWATER CONTROLS WILL REMAIN FOR DURATION OF THE CONSTRUCTION

Phase III

HOME BUILDING AND SITE FINISHES

- ESTIMATED START: SEPTEMBER 2023;
- ESTIMATED COMPLETION: SEPTEMBER 2024
- HOME BUILDER APPLY FOR INDIVIDUAL LOT NOTICE OF INTENT (NOI)
- BUILD HOUSES
- COMPLETE FINAL GRADING
- INSTALL PERMANENT SEEDING
- HOME BUILDER SUBMIT INDIVIDUAL LOT NOTICE OF TERMINATION (NOT) AS LOTS ARE STABILIZED
- DEVELOPER SUBMIT ENTIRE SITE NOT
- STABILIZATION WILL BE REQUIRED DURING AND AFTER THIS PHASE

SEEDING AND MULCHING

SEEDING AND MULCHING SHALL BE AS PER ODOT SPECIFICATION ITEM 659, USING SEEDING MIXTURE: 90% PERENNIAL RYEGRASS (LOLIUM PERRENNE) 10% ALSIKE CLOVER (TRIFOLIUM HYBRIDUM). SEEDING AND MULCHING SHALL INCLUDE ALL PROPOSED RIGHTS OF WAY, EASEMENTS, AND ALL DISTURBED AREAS WITHIN EXISTING CITY OF PERRYSBURG RIGHTS OF WAY.

- CONSTRUCTION SEEDING AND MULCHING SHALL BE COMPLETED ON ALL DISTURBED AREAS WITHIN SEVEN (7) DAYS IF THESE AREAS ARE TO REMAIN UNDISTURBED FOR MORE THAN 14 DAYS.
- PERMANENT OR CONSTRUCTION SEEDING AND MULCHING SHALL BE APPLIED TO DISTURBED AREAS WITHIN SEVEN (7) DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE.
- WHEN SEASONAL CONDITIONS PROHIBIT THE APPLICATION OF CONSTRUCTION OR PERMANENT SEEDING, NON-VEGETATIVE SOIL STABILIZATION PRACTICES SUCH AS MULCHING & MATTING SHALL BE USED.

NOTE:

- NO SURFACE WATER SHALL BE ALLOWED TO RUN OFF THE SITE UNTIL FINAL GRADING IS COMPLETED. THE CONTRACTOR SHALL DIVERT ALL SURFACE WATER TO THE EXISTING BASIN AS REQUIRED.
- THE HOME BUILDER SHALL INSTALL AND MAINTAIN A "GRAVEL CONSTRUCTION ENTRANCE" TO CONTROL THE TRACKING OF DEBRIS ONTO PUBLIC ROADS. IT SHALL CONSIST OF A MINIMUM OF 6" OF 2" TO 3" SIZE STONE, 20 FEET WIDE AND 40 FEET IN LENGTH.
- THE CONTRACTOR SHALL INSTALL AND MAINTAIN A "GRAVEL CONSTRUCTION ENTRANCE" WHERE PROPOSED ROAD MEETS EXISTING ROAD. IT SHALL CONSIST OF A MINIMUM OF 6" OF 2" TO 3" SIZE STONE, 20 FEET WIDE AND 70 FEET IN LENGTH. THE LUMP SUM PRICE BID FOR ITEM 207 "TEMPORARY CONSTRUCTION ENTRANCE" SHALL INCLUDE ALL COSTS FOR INSTALLATION AND REMOVAL AS REQUIRED.
- LAWN INSTALLERS WILL BE REQUIRED TO CERTIFY THAT FERTILIZER APPLICATION RATES WILL NOT BE APPLIED IN EXCESS OF THE PHOSPHORUS LOADING RATE NECESSARY TO ESTABLISH NEW LAWN AND LANDSCAPING.

EASEMENT ABBREVIATIONS

D.E.:.....DRAINAGE EASEMENT
U.T.E.:.....UTILITY & TOLEDO EDISON EASEMENT



NORTH
SCALE: 1"=50'

FELLER, FINCH & ASSOCIATES, INC.			
REVISION	DATE	DESIGN BY:	CMG
		DRAWN BY:	RSP
		CHECKED BY:	CMG
		DATE:	2-6-23
		DRAWING:	10-07320P0408

BENCH MARK DATA

WOOD COUNTY BENCH MARK

WOOD CO. BENCH MARK BRASS DISC IN NORTHWEST HEADWALL 300'± WEST OF HULL PRAIRIE ROAD & ROACHTON ROAD INTERSECTION.

ELEVATION 644.05

SITE BENCH MARK #204

SET MAG NAIL NORTH FACE OF P & T POLE AT SOUTHEAST CORNER OF ROACHTON ROAD AND HULL PRAIRIE ROAD.

ELEVATION 644.06

SITE BENCH MARK #208

SET MAG NAIL NORTH FACE OF 13TH P & T POLE EAST OF HULL PRAIRIE ROAD ON SOUTH SIDE OF ROACHTON ROAD.

ELEVATION 645.53

LEGEND

- EXISTING GROUND ELEVATIONS +000.00
- EXISTING CONTOURS -000-
- PROPOSED ELEVATIONS (00.0)
- PROPOSED ELEVATIONS AT HOUSE (00.0)
- PROPOSED RIM ELEVATION (00.0R)
- PROPOSED = EXISTING (00.0E)
- ADD 600.00 TO ALL PROPOSED SPOT ELEVATIONS.
- ALL PAVEMENT GRADES ARE TOP OF CURB.
- = IRON PIPE (BY SURVEYOR)
 - = MONUMENT ASSEMBLY (ODOT RM-1.1) BY CONTRACTOR
 - = MONUMENT ASSEMBLY (WOOD CO. TYPE A) BY SURVEYOR
 - = EXISTING MONUMENT ASSEMBLY (WOOD CO. TYPE A)
 - = 5' CONCRETE WALK BY CONTRACTOR
 - = 5' CONCRETE WALK & RAMPS BY OTHERS

INLET PROTECTION FILTER (OR APPROVED EQUAL) (A)

CURB INLET SEDIMENT FILTER (B)

PERMANENT SEEDING AND MULCHING (C)

CONSTRUCTION SEEDING (D)

CONSTRUCTION ENTRANCE (E)

PERIMETER CONTROLS (F)(J)

CONCRETE WASHOUT AREA (G)

MATERIAL STORAGE AREA (H)

SWP3 RECORD LOCATION (I)

SEE SHEETS 26&27 FOR EROSION CONTROL NOTES AND DETAILS.

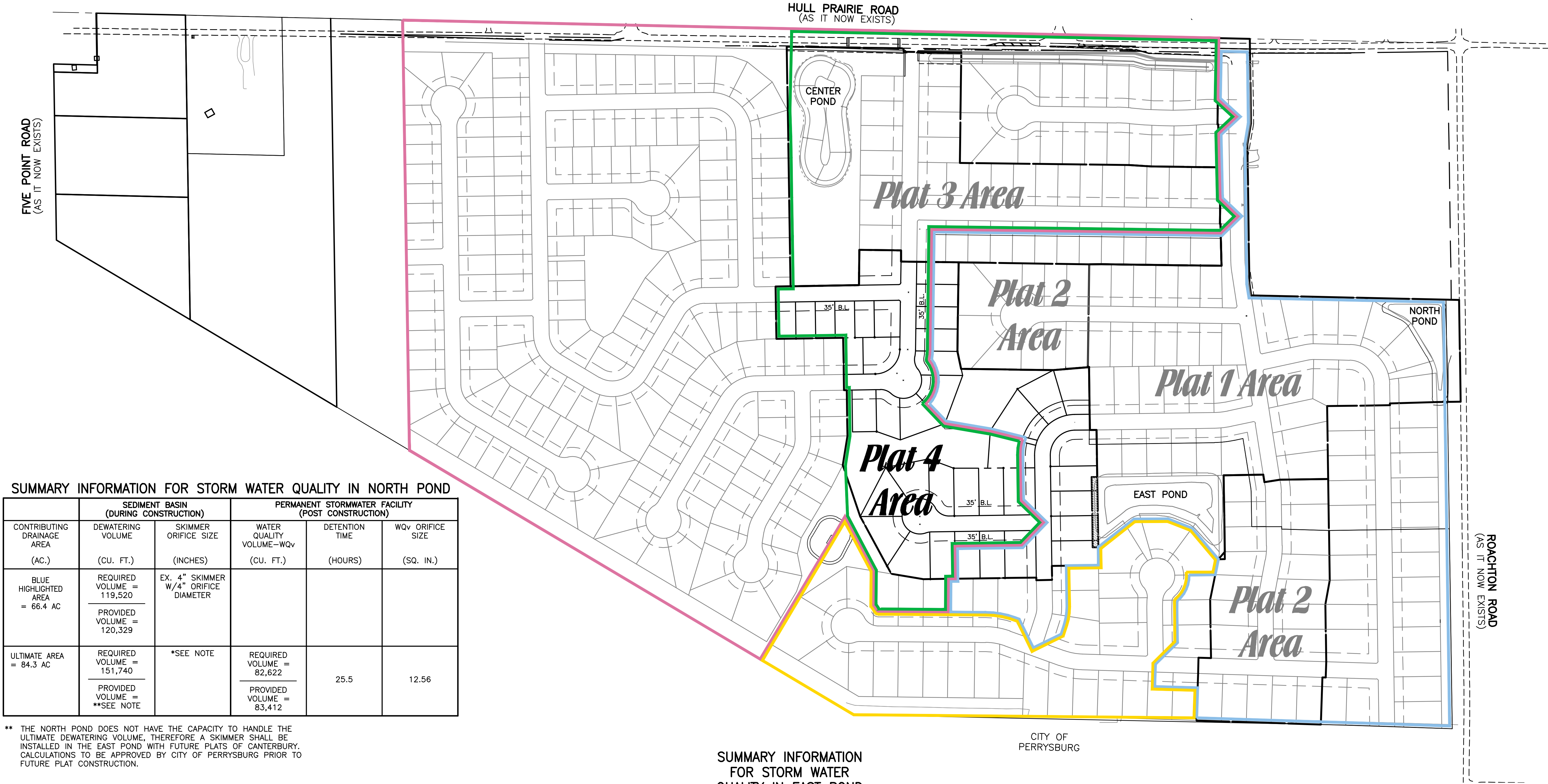
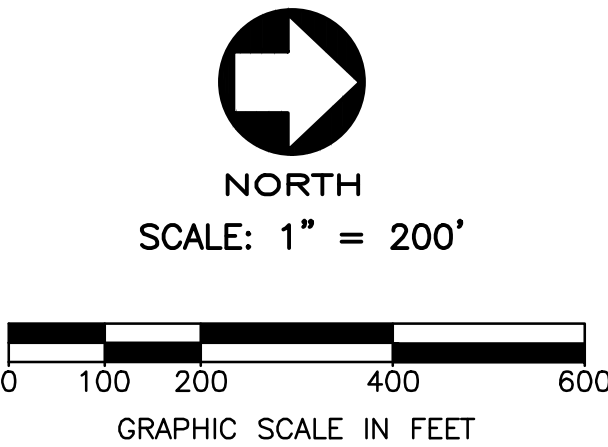
SEE SHEET 7 FOR EX. WATER QUALITY OUTLET STRUCTURE.

RECORD CONSTRUCTION 8/19/24

29
32

10E07232-4

FELLER, FINCH & ASSOCIATES, INC.					
REVISION	DATE	DESIGN BY:	CMG		
		DRAWN BY:	RSP		
		DATE:	2-6-23		
		CHK'D BY:	CMG		
		DRAWING:	10-07232DP04B		



SUMMARY INFORMATION FOR STORM WATER QUALITY IN NORTH POND

CONTRIBUTING DRAINAGE AREA (AC.)	SEDIMENT BASIN (DURING CONSTRUCTION)		PERMANENT STORMWATER FACILITY (POST CONSTRUCTION)		
	DEWATERING VOLUME (CU. FT.)	SKIMMER ORIFICE SIZE (INCHES)	WATER QUALITY VOLUME-WQv (CU. FT.)	DETENTION TIME (HOURS)	WQv ORIFICE SIZE (SQ. IN.)
BLUE HIGHLIGHTED AREA = 66.4 AC	REQUIRED VOLUME = 119,520 PROVIDED VOLUME = 120,329	EX. 4" SKIMMER W/4" ORIFICE DIAMETER			
ULTIMATE AREA = 84.3 AC	REQUIRED VOLUME = 151,740 PROVIDED VOLUME = **SEE NOTE	*SEE NOTE	REQUIRED VOLUME = 82,622 PROVIDED VOLUME = 83,412	25.5	12.56

** THE NORTH POND DOES NOT HAVE THE CAPACITY TO HANDLE THE ULTIMATE DEWATERING VOLUME, THEREFORE A SKIMMER SHALL BE INSTALLED IN THE EAST POND WITH FUTURE PLATS OF CANTERBURY. CALCULATIONS TO BE APPROVED BY CITY OF PERRYSBURG PRIOR TO FUTURE PLAT CONSTRUCTION.

SUMMARY INFORMATION FOR STORM WATER QUALITY IN CENTER POND

CONTRIBUTING DRAINAGE AREA (AC.)	CONTRIBUTING DISTURBED AREA (AC.)	SEDIMENT BASIN (DURING CONSTRUCTION)		SKIMMER ORIFICE SIZE (INCHES)	PERMANENT STORMWATER FACILITY (POST CONSTRUCTION)		
		DEWATERING VOLUME (CU. FT.)	SEDIMENT STORAGE VOLUME (CU. FT.)		WATER QUALITY VOLUME-WQv (CU. FT.)	DETENTION TIME (HOURS)	WQv ORIFICE SIZE (SQ. IN.)
ULTIMATE AREA = 118.2 AC	ULTIMATE AREA = 118.2 AC	REQUIRED VOLUME = 212,760 PROVIDED VOLUME = 219,528	REQUIRED VOLUME = 118,200 PROVIDED VOLUME = 423,849	* 6" SKIMMER W/4.7" ORIFICE DIAMETER	REQUIRED VOLUME = 127,433 PROVIDED VOLUME = 130,568	25.4	35.62
PLAT 3&4 = 45.4 AC	PLAT 3&4 = 38.62 AC	REQUIRED VOLUME = 81,720 PROVIDED VOLUME = 219,528	REQUIRED VOLUME = 38,620 PROVIDED VOLUME = 423,849	EX. 6" SKIMMER W/3.8" ORIFICE DIAMETER			

** A 3.8" ORIFICE IS NEEDED TO DRAIN THE CURRENT PLATS IN THE REQUIRED DRAIN TIME. AS FUTURE PLATS ARE DEVELOPED, A 4.7" ORIFICE WILL BE NEEDED. CALCULATIONS TO BE APPROVED BY CITY OF PERRYSBURG PRIOR TO FUTURE PLAT CONSTRUCTION.

SUMMARY INFORMATION FOR STORM WATER QUALITY IN EAST POND

CONTRIBUTING QUALITY DISTURBED AREA (AC.)	SEDIMENT STORAGE VOLUME (CU. FT.)
PLAT 1,2&4 = 18.22 AC	REQUIRED VOLUME = 18,220 PROVIDED VOLUME = 270,780
ULTIMATE AREA = 46.18 AC	REQUIRED VOLUME = 46,180 PROVIDED VOLUME = 270,803

NOTE: ALL WATER QUALITY CURRENTLY BEING TREATED IN THE NORTH POND.
** SEE NOTE BELOW NORTH POND SUMMARY INFORMATION

LEGEND

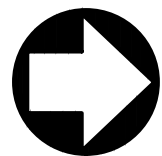
- AREA TO NORTH POND FOR DURING CONSTRUCTION WATER QUALITY (DEWATERING AREA FOR SKIMMER SIZING) = 66.4 Ac.
- FUTURE AREA TO NORTH POND FOR DURING CONSTRUCTION WATER QUALITY (DEWATERING AREA FOR SKIMMER SIZING) = 17.9 Ac.
*SKIMMER MAY NEED RESIZED IN THE NORTH POND OR SKIMMER MAY BE ADDED TO THE EAST POND WHEN THIS AREA IS DEVELOPED - CALCULATIONS TO BE APPROVED BY CITY OF PERRYSBURG PRIOR TO FUTURE PLAT CONSTRUCTION.
- AREA TO CENTER POND FOR DURING CONSTRUCTION WATER QUALITY (DEWATERING AREA FOR SKIMMER SIZING) = 118.2 Ac.
- PLAT 3 & PLAT 4 & FUTURE AREA TO CENTER POND FOR DURING CONSTRUCTION WATER QUALITY (DEWATERING AREA FOR SKIMMER SIZING) = 45.4 Ac.

RECORD CONSTRUCTION 8/19/24

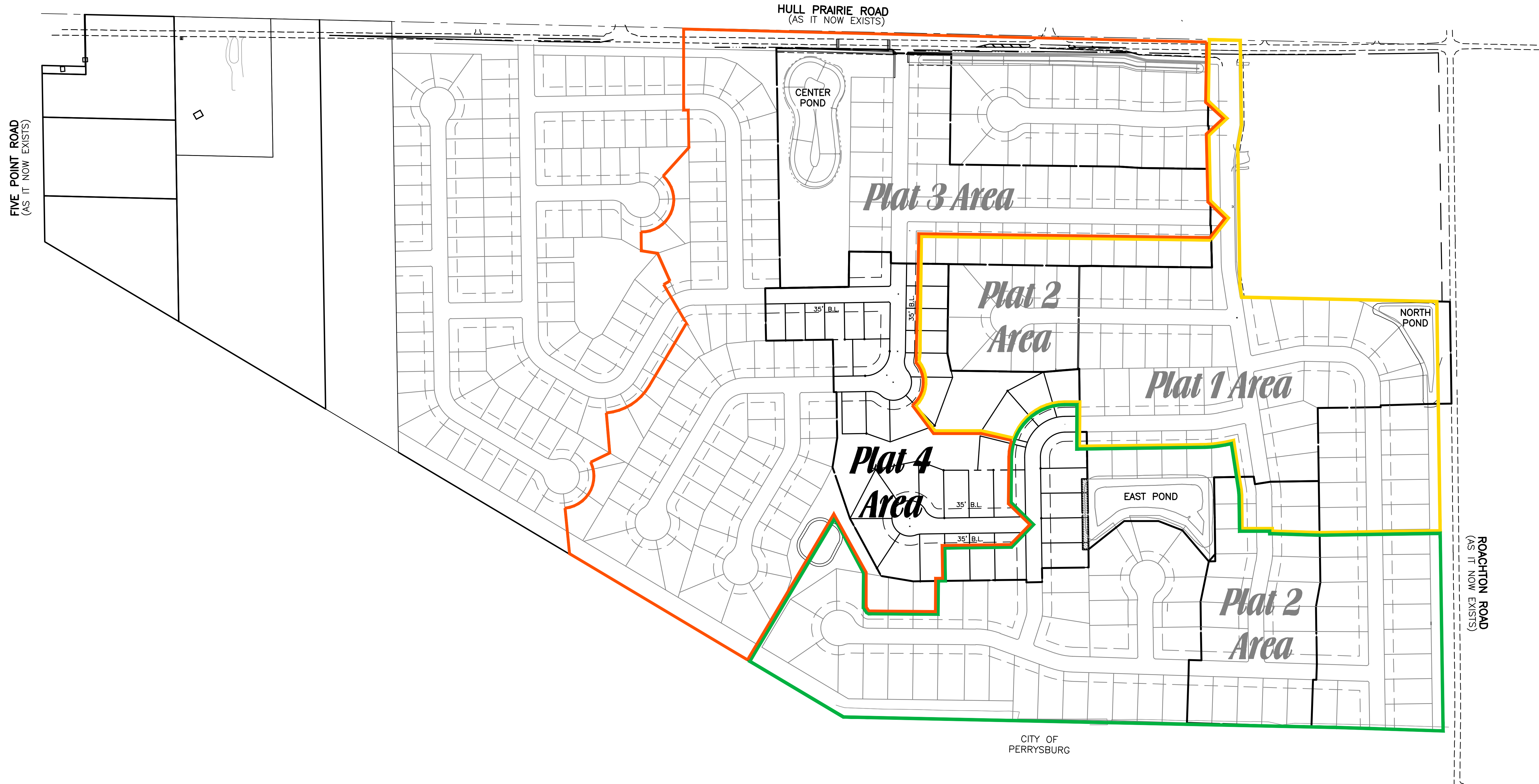
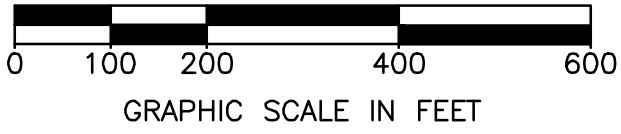
30
32

10E07232-4

FELLER, FINCH & ASSOCIATES, INC.			
REVISION	DATE	DESIGN BY:	CMG
		DRAWN BY:	RSP
		DATE:	2-6-23
		CHK'D BY:	CMG
		DRAWING:	10-07232DP04B



SCALE: 1" = 200'



LEGEND

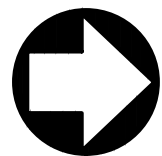
- DRAINAGE AREA TO NORTH POND = 37.88 Ac.
- DRAINAGE AREA TO EAST POND = 46.21 Ac.
- DRAINAGE AREA TO CENTER POND = 76.50 Ac.

RECORD CONSTRUCTION 8/19/24

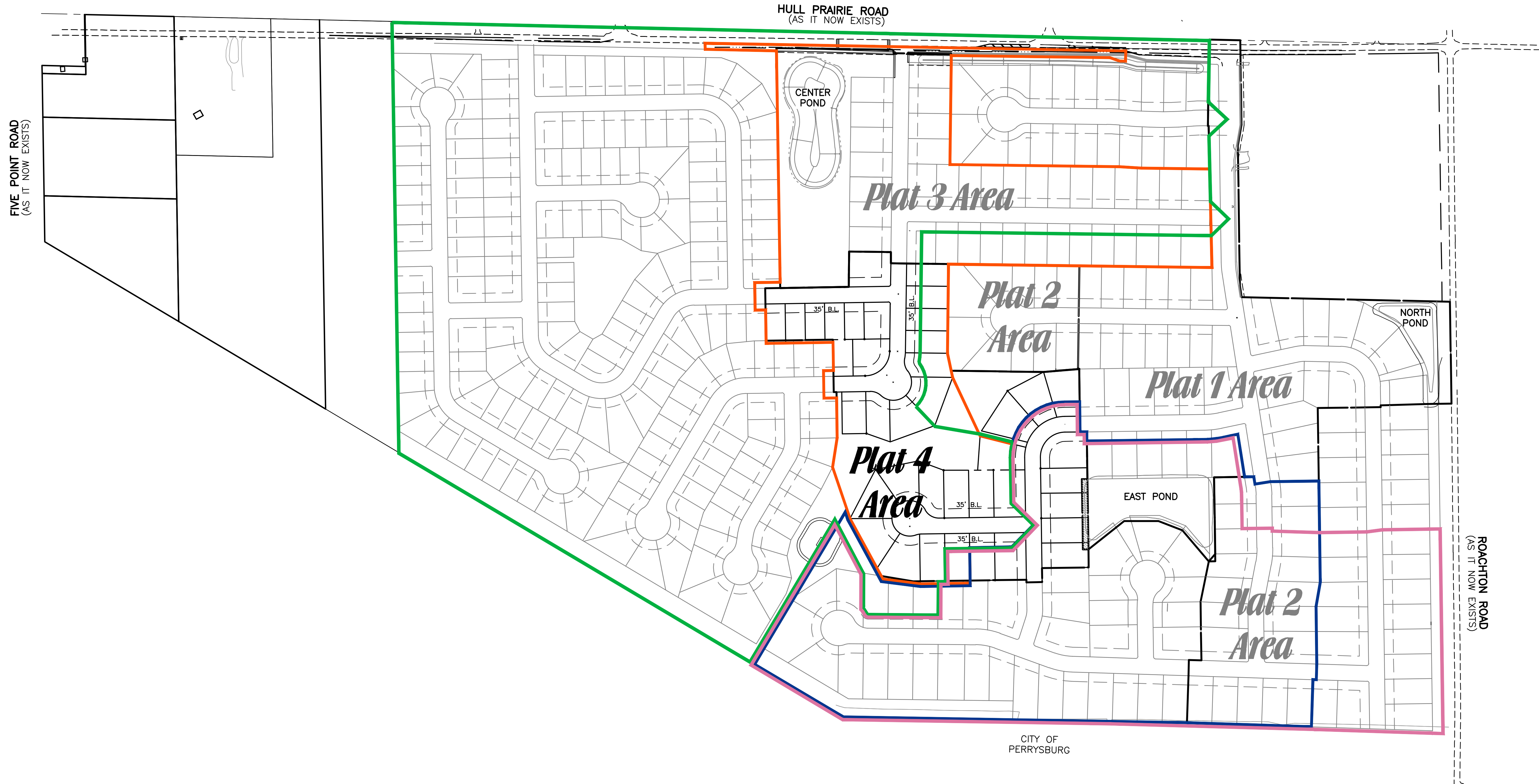
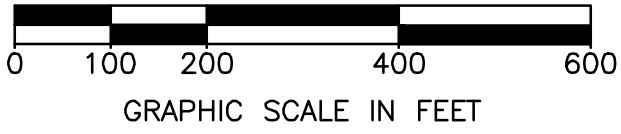
31
32

10E07232-4

FELLER, FINCH & ASSOCIATES, INC.			
REVISION	DATE	DESIGN BY:	CMG
		DRAWN BY:	RSP
		DATE:	2-6-23
		CHK'D BY:	CMG
		DRAWING:	10-07322DP04B



SCALE: 1" = 200'



LEGEND

- PLAT 1,2 & 4 DISTURBED AREA TO EAST POND = 18.22 Ac.
- PLAT 3 & 4 DISTURBED AREA TO THE CENTER POND = 38.62 Ac.
- ULTIMATE DISTURBED AREA TO EAST POND = 46.18 Ac.
- ULTIMATE DISTURBED AREA TO CENTER POND = 118.2 Ac.

RECORD CONSTRUCTION 8/19/24

32
32

10E07232-4

SANITARY SEWER IMPROVEMENTS
FOR
lages at Canterbury
CITY OF PERRYSBURG, WOOD COUNTY, OHIO

TITLE SHEET	1
STANDARD SPECIFICATIONS	2-5
PLAN AND PROFILE	6-9

SANITARY SEWER THE VILLAGES AT CANTERBURY PLAT 4

PAVEMENT AND SANITARY SEWER SPECIFICATIONS	
PART 1 GENERAL	
1.1 SUMMARY	
A. Sanitary sewers, 48 inches in diameter and smaller.	
B. Pavement for local roads.	
C. Audio-DVD/CD taping of existing and new storm sewer interiors.	
1.2 STANDARDS	
A. All materials and construction shall be in accordance with the Standards and Specifications of the City of Perrysburg (the City) Department of Public Service/Utilities, and/or the American Society for Testing and Materials (ASTM), and/or the Wood County Engineer, and/or the Ohio Department of Transportation (ODOT) Construction and Material Specifications (CMS). In case of conflict, City Standards and Specifications shall take precedence.	
B. All references to Standards and Specifications are to the latest edition, unless otherwise noted.	
C. The City's Pavement and Sanitary Sewer Standard Details apply to these specifications.	
1.3 PRE-CONSTRUCTION MEETINGS, INSPECTION, AND PERMITS	
A. The Department of Public Utilities (419-672-8050), shall be notified seven calendar days prior to the beginning of actual construction.	
B. Any work within the City's public rights-of-way requires a Street Opening Permit which is obtained from the City's Department of Public Utilities Office, at 211 East Boundary Street, 419-872-8050.	
C. All sanitary sewer installation and testing shall be inspected by the City or its representative.	
D. The City or its representative shall be present during all sanitary sewer TV inspection and taping.	
1.4 DEFINITIONS	
A. Bedding: Material placed under, beside and directly over the pipe for the full width of the trench, from a depth of 4 inches below the outside bottom of the pipe barrel, when the pipe is laid on its final grade, up to a horizontal plane a distance of 12 inches above the top of the pipe barrel.	
1.5 REGULATORY REQUIREMENTS	

C:\Users\insommers\Downloads\Sanitary Specifications.docx

Page 1 of 7

DECEMBER 2015

PAVEMENT AND SANITARY SEWER SPECIFICATIONS	
Pipe Diameter	Minimum Slope in Feet per 100 feet
27 inch	0.067
30 inch	0.058
33 inch	0.052
36 inch	0.046
42 inch	0.037
48 inch	0.031
C. Roof drains, foundation drains, and all other clean water connections to the sanitary sewers are prohibited.	
D. Manholes shall not be designed or constructed to be located within the landscaped areas of cul-de-sacs.	
1.9 SEWER INSPECTION SYSTEM REQUIREMENTS	
A. Camera	
1. Capable of operation in 100 percent humidity conditions.	
2. Specifically designed and constructed for intended service.	
3. Resolution: 500 lines per inch; color image.	
4. Provided with built-in lighting system.	
5. Provide remote operation of lighting system and camera.	
6. Provide with pan and tilt, rotating head capabilities.	
7. Footage Meter: provide equipment with a footage meter so that the location of the camera and point of observation is known at all times.	
B. Monitor:	
1. Locate inside mobile TV studio large enough to accommodate a minimum of four people to view the monitor at all times.	
2. Capable of providing a color picture.	
C. DVD/CD Recorder:	
1. Compatible with closed circuit TV to allow direct recording during inspection.	
PART 2 PRODUCTS	
2.1 PIPE MATERIAL	
A. PVC Plastic Pipe and Fittings:	
1. ASTM D3034 (4" thru 15" pipe sewer).	
2. ASTM F679 (18" thru 27" pipe sewer).	
3. ASTM F 784 and ASTM F 1803 (30" thru 48" pipe sewer), as applicable and approved by the City, for the sizes involved, minimum pipe stiffness of 46 psi at 5 percent deflection when tested in accordance with ASTM D2412; ASTM D3212 elastomeric gasket joint (integral bell), push-on type with bell designed to retain the gasket to prevent pull-out during making of the joint.	
4. An exception shall be made for ASTM D3034 PVC plastic fittings 8 inches in size and smaller, with such fittings to have	

C:\Users\insommers\Downloads\Sanitary Specifications.docx

Page 2 of 7

DECEMBER 2015

PAVEMENT AND SANITARY SEWER SPECIFICATIONS	
5. Inspection shall include pipe sewers from manhole to manhole.	
6. New sewers and existing sewers shall have its own separate DVD/CD and separate documentation.	
7. Label new and/or existing accordingly for all documentation.	
1.7 RESTORATION	
A. All existing features that are disturbed due to construction activities, such as mailboxes, shrubs, bushes, guardrails, pavement markings, swales, sewers, catch basins, curbs, seeded areas, etc. shall be replaced to their original condition, unless otherwise specified, in accordance with current ODOT specifications and to the satisfaction of the City. Existing survey monuments, bench marks, property corner points, and control points damaged or disturbed by construction shall be replaced by a registered land surveyor, licensed in the State of Ohio.	
B. Restoration of street openings shall be in accordance with the City's Standard Street Opening Repair Details.	
C. In existing streets, provide a temporary pavement upon completion of backfilling operations and maintain same until the permanent pavement can be placed. Temporary pavement shall be a minimum 2-inch thick asphalt concrete mix in accordance with ODOT Item 614.13.	
D. Regrade and reshape all road shoulders and all ditches and swales from existing high points to existing drainage structures or other outlets along the proposed improvement. Ditches, which are reshaped, shall have reasonable side slopes. Vertical or steep slopes will not be permitted.	
E. Seed all disturbed earth areas using the hydroseed method or placement of sod, both seed mixture and sod type shall be as approved by the City.	
1.8 DESIGN REQUIREMENTS	
A. Sewers shall be of PVC plastic pipe and fittings.	
B. The following are the minimum permissible slopes at which sanitary sewers shall be installed:	
Pipe Diameter	Minimum Slope in Feet per 100 feet
6 inch	1.00
8 inch	0.40
10 inch	0.28
12 inch	0.22
15 inch	0.15
18 inch	0.12
21 inch	0.10
24 inch	0.08
C. Earth Backfill: Excavated earth material. Use finely divided material, free of stones 3 inches or greater in any dimension, to at least 3 feet above pipe top.	
B. Granular Backfill: ODOT Item 304, crushed limestone.	
C. Control Density Fill (CDF): A mix of Portland cement, fly ash and selected granular materials with a compressive strength of 100 psi; Kuhlman Corporation "K-Krete", or as approved.	
2.5 LOCAL ROADS	
A. Asphalt Concrete Pavement:	
1. 1-1/2 inches ODOT Item 448, Type 1 (medium traffic) Surface Course, PG 64-22.	
2. 2 inches ODOT Item 448, Type 2 (medium traffic) Intermediate Course, PG 64-22.	
3. 10 inches ODOT Item 304, Aggregate Base (placed in 2 lifts).	
4. On aggregate base, apply ODOT Item 408 Prime Coat at rate of 0.35 gallons per square yard. Installation to be directed by the City.	
5. ODOT Item 407; apply tack coat at the rate of 0.04 gallons per square yard to be placed between intermediate and surface courses and joints.	
6. Sealer for Contact and Mating Surfaces and Joints: Comply with ODOT Items 401.14 and 401.17.	
7. Pavement Sealer: When requested by and as approved by the City.	
B. Concrete Driveways and Parking Areas:	
1. Pavement: ODOT Item 452 Non-Reinforced Portland Cement Concrete Pavement.	
a. Commercial Drives: minimum 9 inch thick or match existing	
b. Residential Drives: minimum 6 inch thick or match existing	
2. Reinforcement: Match existing.	
3. Hook Bolts or Deformed Bars in Roadways:	
a. Provide 5/8-inch hook or deformed bolts where new abuts existing longitudinally.	
b. Furnish and install at 30 inches center to center where new abuts existing transversely.	
c. When thickness is less than 10 inches, as determined by the City, furnish and install at 20 inches center to center where new abuts existing transversely.	
d. When thickness is greater than 10 inches, as determined by the City, furnish and install at 26 inches center to center where new abuts existing transversely.	
C. Concrete Curbs: ODOT Item 609.04, Class C concrete.	
D. Underdrains: ODOT Item 605 using pipe 706.06, 706.07, 706.08 or 707.41.	
D. Set grade rings in a full bed of mortar, and mortar the interior of the grade rings to provide a smooth common surface from frame to top.	
E. Set casting frames firmly on top of grade rings with a full leveling bed of 1:1 cement mortar; in paved areas, make casting top 1/4 inch below top of pavement surface; in unpaved streets and alley areas, set the cover not to exceed 1 inch above the ground surface. On right-of-way and in ditches, cover elevation shall be as approved by the City.	
F. If not integrally cast with the base, after pipe installation provide an ODOT Class F concrete invert having a depth equal to 1/2 the sewer pipe diameter and sloping upward toward the walls approximately 3 inches; trowel concrete smooth. Include drop connections in inverts; do not discharge on sloped portion. For concrete inverts integrally cast with the base, fill void between base and wall with ODOT Class F concrete to match top of shaped invert.	
G. Encase all manhole frames located in pavement in concrete extending from a horizontal plane 4 inches below the lowest grade ring up to the top of the frame, unless otherwise shown or noted. Make the concrete encasement circular in plan by using a minimum 48-inch diameter steel casing ring as a form centered on the frame.	
H. Joint Sealant: Apply mastic, 1/4 inch thick, to interior surfaces of manhole chimney and grade rings as shown on Standard Detail.	
3.3 SERVICE CONNECTIONS	
A. Provide for existing and future houses and businesses; minimum 6 inches in diameter unless otherwise shown; maximum two service connections per lateral; install at 1 percent slope.	
B. Connect to the main sewer by providing an appropriate sized stainless steel sewer pipe saddle as manufactured by The General Engineering Company, or as approved.	
C. Install three foot minimum into each lot, or as otherwise noted, true to line and on at least 1 percent grade with a minimum depth of 9 feet at the property line or the maximum depth possible for main sewers less than 9 feet deep, plus deep enough to serve all basements where the main sewer allows.	
D. Provide riser sections of pipe and fittings between the main line sewer connection and that portion installed on at least a 1 percent grade where depths to the main sewer invert exceed 12 feet. Fix riser in place for its full height by providing thoroughly tamped pipe embedment material as shown.	
E. Close service connections not immediately connected to an existing sewer with a plug. Plug shall be specifically designed for use with the pipe, shall be for use as a permanent or temporary	

C:\Users\insommers\Downloads\Sanitary Specifications.docx

Page 3 of 7

PAVEMENT AND SANITARY SEWER SPECIFICATIONS	
2.6 MONUMENT ASSEMBLY (IN PAVED AREAS)	
A. Neenah Foundry Company, R 1978 A2 with bolted lid.	
2.7 CURB RAMP DETECTABLE WARNING TRUNCATED DOMES	
A. Materials:	
1. Follow current ODOT Specifications 712.14 as modified herein:	
2. Truncated Domes: Shall consist of cast-in-place reinforced polymer composite tiles.	
3. Material supplied shall be red color, and installed by pressing tiles into place in the freshly poured concrete.	
4. Material supplied and installed shall meet ODOT Standard Drawings and current approved products as listed at: http://www.dot.state.oh.us/Divisions/Engineering/Roadway/DesignStandards/roadway/Pages/Approved%20Products.aspx (DETECTIBLE WARNINGS)	
B. Concrete: ODOT Class C.	
PART 3 EXECUTION	
3.1 SANITARY SEWER PIPE AND FITTINGS	
A. Install PVC plastic pipe and fittings in accordance with ASTM D2321 (as modified by these specifications) and the requirements of these specifications.	
B. Excavate trenches to a depth of 4 inches below the outside bottom of the pipe barrel and bell when the pipe is laid on its final grade to allow for bedding material.	
C. Place bedding material (ODOT No. 67 or No. 57 crushed limestone) under, beside, and to 12 inches over the pipe sewer for the full width of the trench; place in 6 to 12-inch layers, loose measure, and work the crushed stone around the pipe to provide even support, to fill all voids, and to lightly compact the crushed stone (by hand).	
D. Construct concrete encasement for sewers under creeks.	
E. Install pipe at a minimum 10 feet horizontal distance from water mains and hydrants, and lay pipes at a minimum 18 inches vertical distance from water mains at their crossing, both as measured between the outside of the pipe walls. At crossings, install one full length of pipe so both joints will be as far from the main as possible.	
F. From the top of the bedding to a point 5 feet below the adjacent grade level, backfill trenches in and within 5 feet of the edge of existing and proposed paved or stone streets, alleys, driveways, sidewalks, and parking areas with granular material (ODOT No. 304 crushed limestone). Place the crushed limestone material in	
G. The top 5 feet of the trench shall be backfilled with granular material (ODOT No. 304 crushed limestone). Place the crushed limestone material in maximum 12-inch loose layers and mechanically compact to not less than 100 percent of the maximum dry unit weight as determined in accordance with ASTM D698 (Standard Proctor), except where CDF is indicated on the Drawings.	
H. For trenches within 5 feet from the edge of existing and proposed paved or stone streets, alleys, driveways, sidewalks, and parking areas, backfill with compacted granular material as specified above for trenches coming within same.	
I. For backfilling trenches not requiring compacted granular material or CDF, replace as much of the excavated material as possible. Until backfilling has progressed to a depth of at least 3 feet over the top of the pipe barrel, use finely divided material, free of stones 3 inches or greater in any dimension, boulders and other harmful debris, and place in 24-inch layers, loose measurement, and compact by mechanical tamping. Place remainder of backfill in maximum 12-inch layers, loose measurement, and compact by mechanical tamping.	
J. Changes in pipe material to meet City Specifications shall occur only at manholes.	
3.2 MANHOLES	
A. Install base with top surface level; install on cushion of approved compacted granular material, minimum 3 inches thick.	
B. Install wall sections plumb and level. When walls include steps, install with steps in the center of a traffic lane or between lanes where possible when in pavement, and, when outside pavement, with steps located away from the pavement edge unless the manhole is within a ditch line, then locate steps on the high side of the ditch slope.	
C. Provide a drop connection for each sewer entering a manhole at an elevation of 24 inches or more above the manhole invert:	
1. 12 inches Diameter and Smaller Inlet Pipe: Provide Re liner Inside Drop System at both new and existing manholes. Install as instructed by manufacturer.	
2. Larger Than 12 inches Diameter Inlet Pipe: Provide outside at new manholes, and inside at existing manholes unless otherwise noted.	
D. The camera shall be moved through the pipe sewer in either direction at a moderate rate (at no time shall the speed be greater than 30 feet per minute).	
E. The camera shall be stopped when necessary to permit proper documentation of the sewer's condition.	
F. All camera connections and inlets shall be noise on the tape.	
G. Manual windings, power winded, TV cable and powered rewinds or other devices that do not obstruct the camera view or interfere with proper documentation of the sewer conditions shall be used to move the camera through the sewer line.	
H. When manually operated windings are used to pull the television camera through the sewer line, telephones or other suitable means of communication shall be set up between the two manholes on the section being inspected to insure good communications between members of the crew.	
I. Documentation made during inspection operations must conform to the following guidelines:	
a. Meet minimum standards for CCTV inspection of sewers as prepared by the National Association of Sewer Service Companies (NASSCO).	
b. Log Sheet: A written log sheet must accompany each DVD/CD.	
c. For new sewers, Contractor shall utilize and make reference to manhole numbering as shown and indicated on the project Drawings.	
d. For existing sewers, Contractor shall prepare and provide a map indicating manhole numbering.	
e. Reference to new and existing manhole numbers on the DVD/CD, summary report, and pictures shall be consistent with the numbering sequence on the Drawings and on the map provided by Contractor.	
3.6 LOCAL ROADS (UNLESS OTHERWISE APPROVED OR DIRECTED)	
A. Prepare subgrade in accordance with ODOT Item 203. Where it is necessary to construct pavement subgrade in fill, remove the existing topsoil beneath the proposed subgrade.	
B. Asphalt Concrete Pavement:	
1. 1-1/2 inches ODOT Item 448, Type 1 (medium traffic) Surface Course, PG 64-22.	
2. 2 inches ODOT Item 448, Type 2 (medium traffic) Intermediate Course, PG 64-22.	
3. 10 inches ODOT Item 304, Aggregate Base (placed in 2 lifts).	
4. On aggregate base, apply ODOT Item 408 Prime Coat at rate of 0.35 gallons per square yard. Installation to be directed by the City.	
5. ODOT Item 407; apply tack coat at the rate of 0.04 gallons per square yard to be placed between intermediate and surface courses and joints.	
6. Sealer for Contact and Mating Surfaces and Joints: Comply with ODOT Items 401.14 and 401.17.	

C:\Users\insommers\Downloads\Sanitary Specifications.docx

Page 4 of 7

DECEMBER 2015

PAVEMENT AND SANITARY SEWER SPECIFICATIONS

7. Pavement Sealer: When requested by and as approved by the City.
- C. Concrete Driveways and Parking Areas: ODOT Item 452.
- D. Concrete Curbs: ODOT Item 609.04 Type 2 Combination Curb and Gutter or Type 6 Curb.
- E. Pipe Underdrains: ODOT Item 605.03, and as shown on ODOT Standard drawing DM-1.2 and approved Drawings.
- 3.7 MONUMENT ASSEMBLY (IN PAVED AREAS)
- A. Place Type C monuments in accordance with ODOT Item 604, and Standard Construction Drawing RM-1.1.
- 3.8 CURB RAMP DETECTABLE WARNING TRUNCATED DOMES
- A. Material to be supplied shall meet ODOT's Office of Roadway Engineering Services Truncated Domes Approved List.
- B. Installation shall be in accordance with ODOT's latest Standard Construction Drawings for New Curb Ramps (with Truncated Domes) BP-7.1 and Retrofitted Curb Ramps BP-7.2.
- C. All curb ramps/retrofitted curb ramps shall include new ODOT Class C concrete where truncated dome material is to be installed.
- D. The City will approve proposed material to be installed.
- 3.9 FIELD QUALITY CONTROL
- A. The City may check compaction of the bedding and backfill at any time.
- B. All testing shall be in the presence of the City or its representative.
- C. For compacted bedding and backfill in trenches and for concrete work, the City may require the employing of a testing laboratory to make tests on site.
1. The City shall pay for required testing that meets the City bedding and backfilling specifications.
2. Contractor shall pay for any retesting required to meet specifications.
- D. Deflection Test:
1. Test 8-inch diameter and larger PVC plastic pipe for a maximum deflection of 5 percent not less than 30 days after final full backfill has been placed, as determined by the City
2. Conduct deflection tests with a representative of City present.
3. Repair or replace pipes exceeding a deflection of 5 percent and then retest until satisfactory test results are obtained.

C:\Users\nsommers\Downloads\Sanitary Specifications.docx

Page 5 of 7

DECEMBER 2015

PAVEMENT AND SANITARY SEWER SPECIFICATIONS

7. Repair/Replacement
- a. For any sewer test section failing to meet the limits of the Specifications, locate and remedy the defects causing the failure, retest the section, and continue repairs or replacement until the limits of the Specifications are satisfied.
- b. For sewers not accessible, should a test fail due to other than a leaking plug, conduct a closed circuit television inspection of the test section to determine the cause of the failure.
- c. When failure is the result of a leaking sewer joint, the joint may be chemically grouted.
- d. Television inspection and chemical grouting of sewer joints shall comply with all applicable "Recommended Specifications for Sewer Collection System Rehabilitation" of the National Association of Sewer Service Companies as approved by the City. Furnish the City two copies of a DVD/CD of all television inspections.
- e. If a manhole test is unsuccessful, make repairs and retest until a satisfactory test is obtained.
- f. Repair all visible leakage in sewers and manholes, even though tests may have been satisfactory.
- 3.10 MAINTENANCE OF TRAFFIC
- A. Two way traffic shall be maintained at all times on dedicated roads. If construction along dedicated roads interferes with traffic, Contractor shall provide two flaggers and other traffic control devices in accordance with the latest edition of the Ohio Manual of Uniform traffic Control Devices

C:\Users\nsommers\Downloads\Sanitary Specifications.docx

Page 7 of 7

DECEMBER 2015

PAVEMENT AND SANITARY SEWER SPECIFICATIONS

- b. Pneumatic plugs shall be able to resist internal pressures without external blocking.
- c. Plug each end of the section to be tested and all pipe outlets in the section with suitable test plugs.
- d. One plug used at a manhole shall have an inlet tap or other provision for connecting an air hose from the air supply equipment.
- e. The equipment shall include valves to control the rate at which air flows into the test section and pressure gages with minimum graduations of 0.1 psi and an accuracy of ± 0.04 psi to monitor the air pressure within the test section.
- f. Apply air pressure slowly to the test section until the pressure reaches 4.0 psi, plus an adjustment of 0.433 psi for each foot of ground water above the pipe crown in the line being tested. Internal air pressure, including adjustment for ground water, should never exceed 5.0 psi.
- g. When the pressure reaches 4.0 psi, plus adjustment for ground water, throttle the air supply so that the internal pressure is maintained between 4.0 and 3.5 psi for at least 2 minutes to permit temperature stabilization. When the pressure has stabilized and is at or above 3.5 psi, disconnect the air supply, start a stopwatch, and allow stopwatch to run until the pressure has dropped 1.0 psi.
- h. Sewers of Plastic Pipe 27 Inches Diameter and Smaller: Calculate the permissible time allocated for the 1.0 psi pressure drop on the basis of the diameter and length of main sewer tested, no adjustment being made for service connections included in the test section. The air test for a section shall be considered acceptable if the time elapsed for the 1.0 psi pressure drop is equal to or greater than the time indicated, and shall be considered unacceptable if the elapsed time is less than that indicated in the following table:

MINIMUM HOLDING TIME IN MINUTES: SECONDS REQUIRED FOR 1.0 PSI PRESSURE DROP **				
PIPE DIAMETER	100'	150'	200'	250'
4"	3:46	3:46	3:46	3:46
6"	5:40	5:40	5:40	5:40
8"	7:34	7:34	7:34	7:34
10"	9:26	9:26	9:26	9:53
12"	11:20	11:20	11:24	14:15
15"	14:10	14:10	17:48	22:15
18"	17:00	19:13	25:36	32:03
21"	19:50	26:10	34:54	43:37
24"	22:47	34:11	45:34	56:58
27"	28:51	43:16	57:41	72:07

C:\Users\nsommers\Downloads\Sanitary Specifications.docx

Page 6 of 7

DECEMBER 2015

- Retesting shall not take place prior to 30 days after pipe repair/replacement and backfill have occurred. For sewers requiring retesting for deflection and previously tested for leakage, upon obtaining satisfactory deflection test results, retest the affected sewer section for leakage.
4. Conduct tests by pulling an approved deflection probe, having a diameter not less than 95 percent of the base inside diameter or average inside diameter of the pipe depending on which is specified in the ASTM Specification, including the appendix, to which the pipe is manufactured, through the sewer line without mechanical pulling devices. Have a proving ring with an inside diameter equal to the outside diameter of the probe available at the time the probe is used to verify that the probe has the proper diameter by inserting the probe into the ring. The pipe shall be measured in accordance with ASTM D2122.
5. Deflection Probe: By Wortco, Inc., Burke Concrete Accessories, Inc., or as approved; designed specifically for testing the deflection of the type and size of pipe subject to test, and complying with the following:
- a. Odd number (no less than 9) of 1/2 inch by 3/16 inch bar stock runners equally spaced on edge around and welded to the circumference of two minimum 1/4 inch thick circular steel plates.
- b. Distance between plates, out-to-out, of not less than 2 inches smaller than the nominal diameter of the pipe to be tested, with runners extending approximately 1-1/2 inches beyond each plate being bent inward for this distance at approximately 30 degrees.
- c. Continuous 3/4-inch threaded rod through the center of the plates, having a hex nut drawn tight against the inside face of each plate, and extending each side as required for providing a 3/4-inch ferrule loop insert or similar piece for attaching the pulling medium.
- E. Sanitary Sewer Leakage Testing:
1. Performance Requirements
- a. Perform leakage testing for the entire length of Work after deflection testing, where possible. If leakage testing is performed before deflection testing, a test section failing deflection testing shall be retested for leakage after acceptable deflection testing.
- b. Perform with representative of the City present.
- c. Judgment of City's representative as to the acceptance of tests is final.
2. Preparation:
- a. Test each section of pipe for obstructions prior to testing for leakage using mandrels, solid cylinders, or balls with diameters of 95 percent of the pipe diameter. Remove obstructions.
- b. Determine ground water level by installing ground water gages in manholes as selected by the City. Gages shall consist of a rigid section of 1/2 inch diameter pipe, approximately 10 inches long, inserted horizontally through the manhole wall as near as possible to pipe

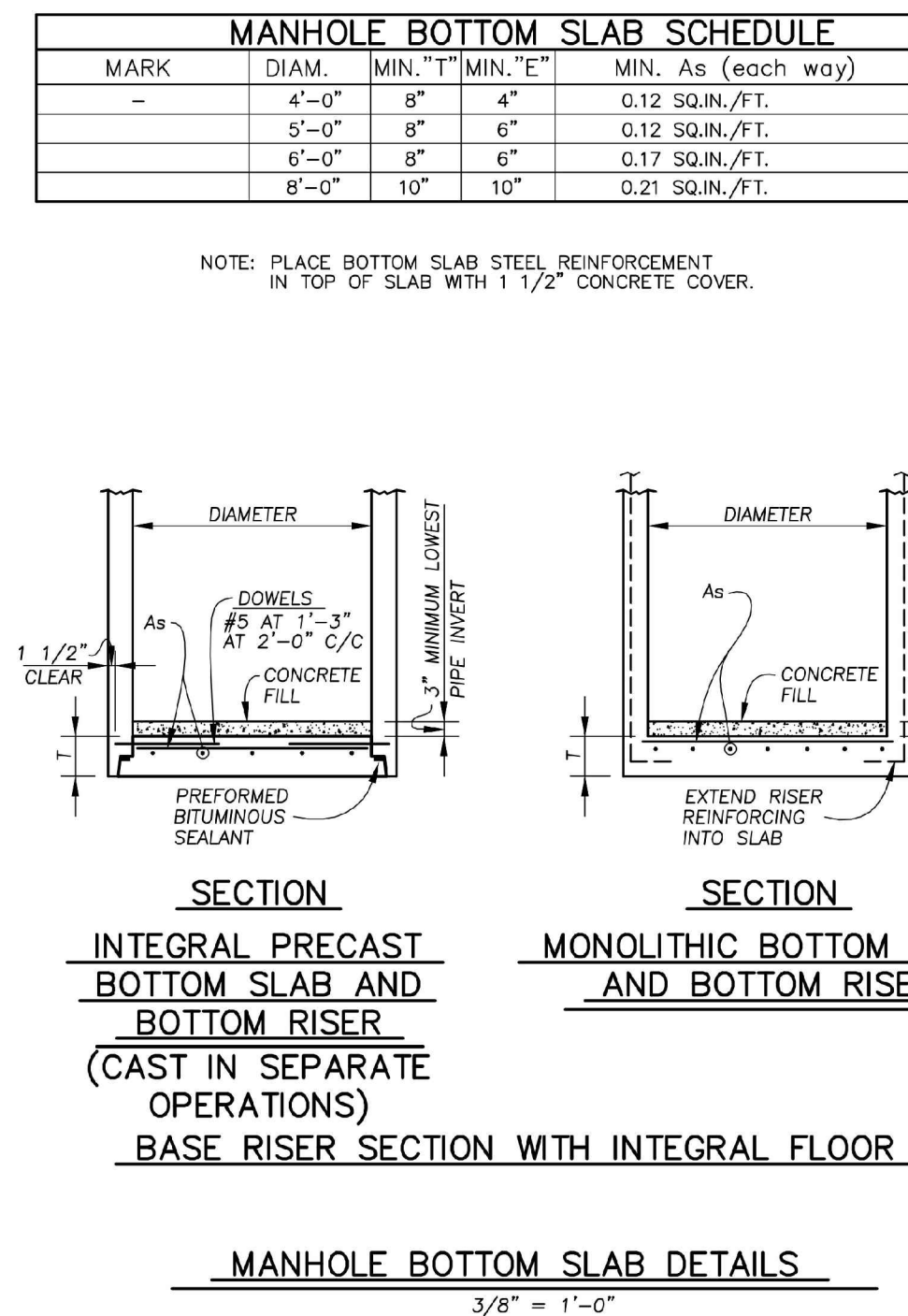
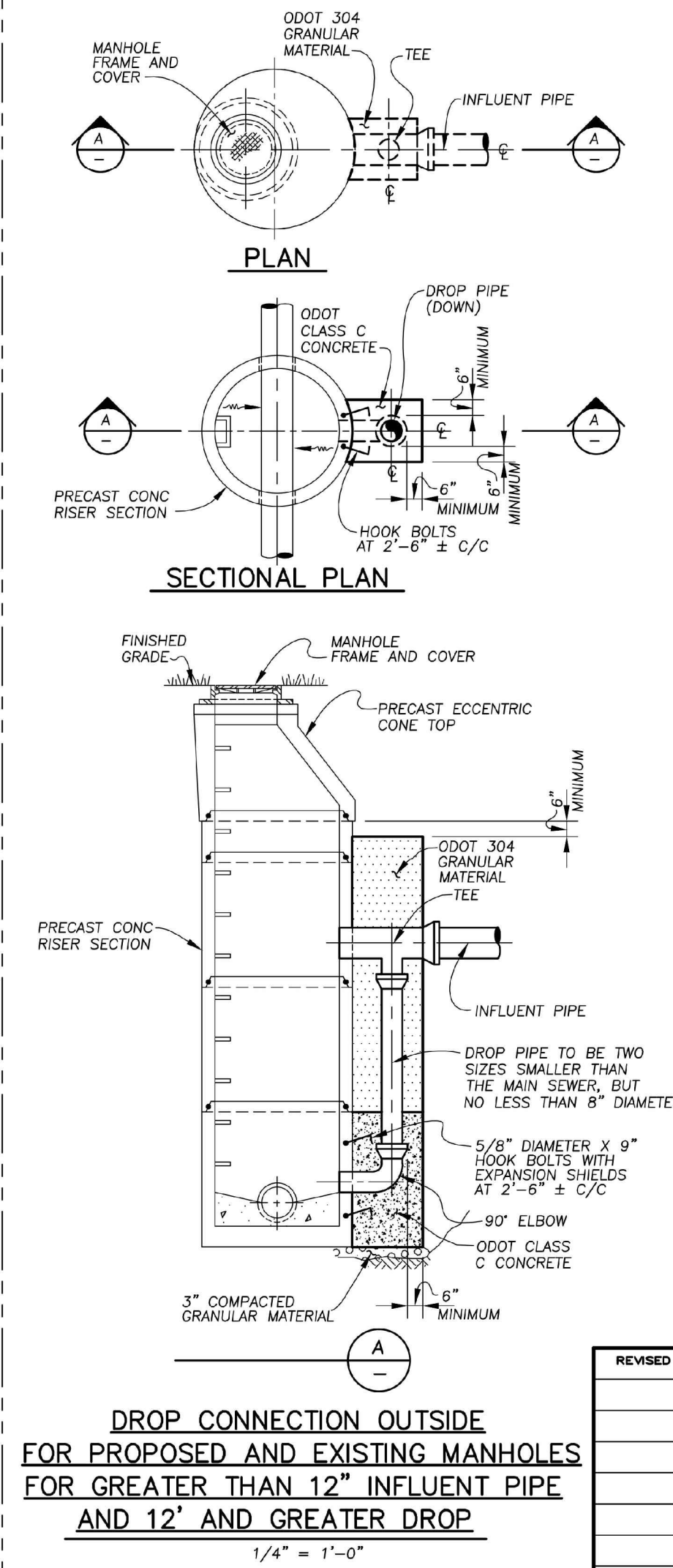
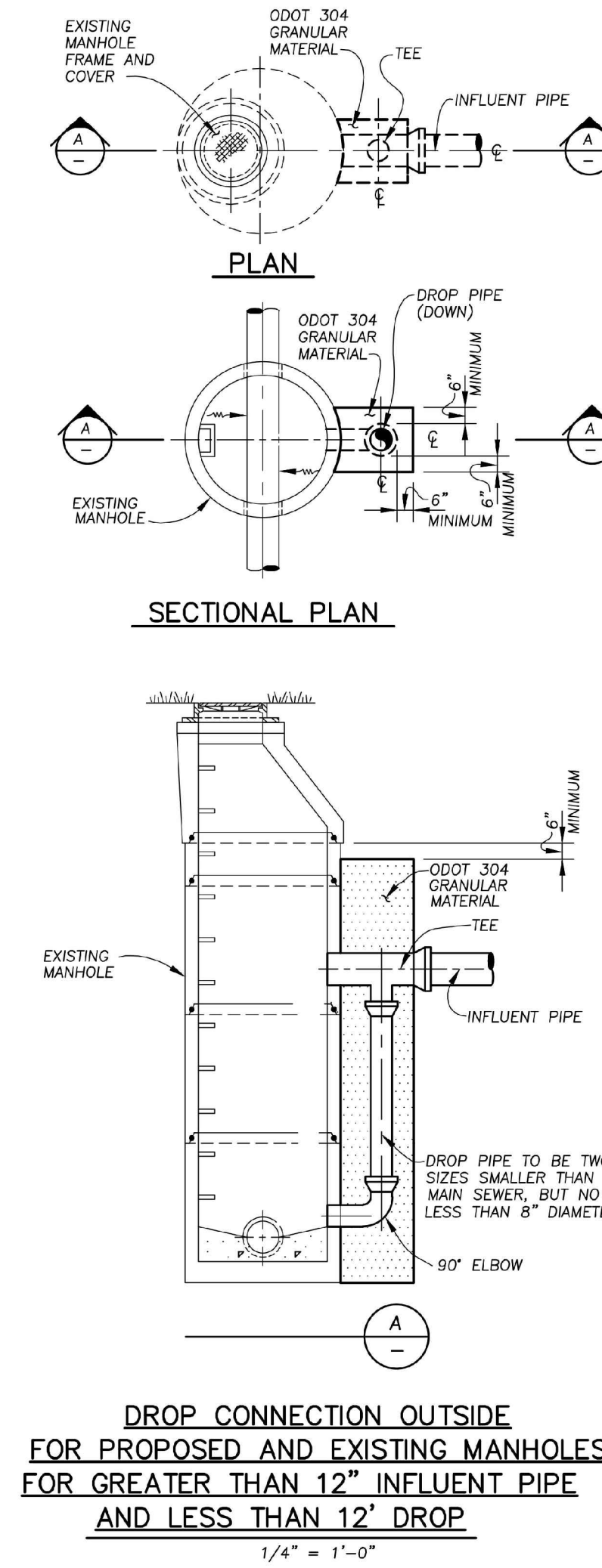
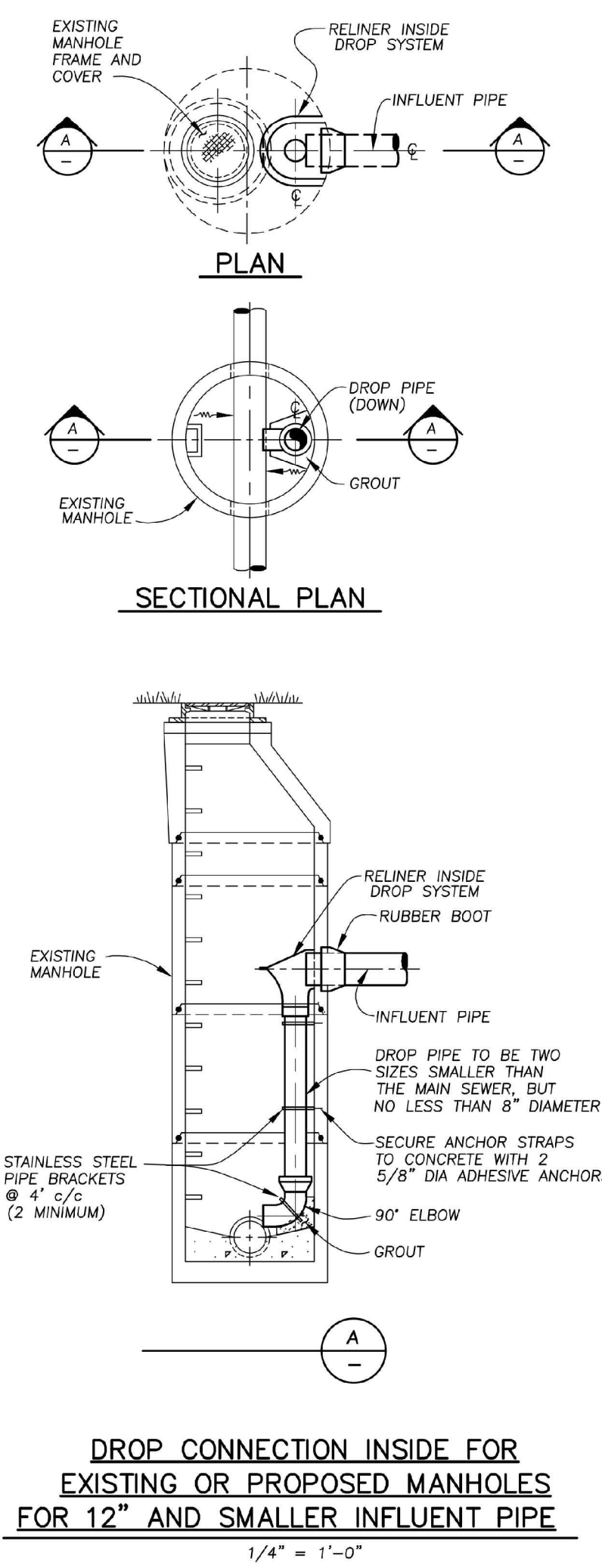
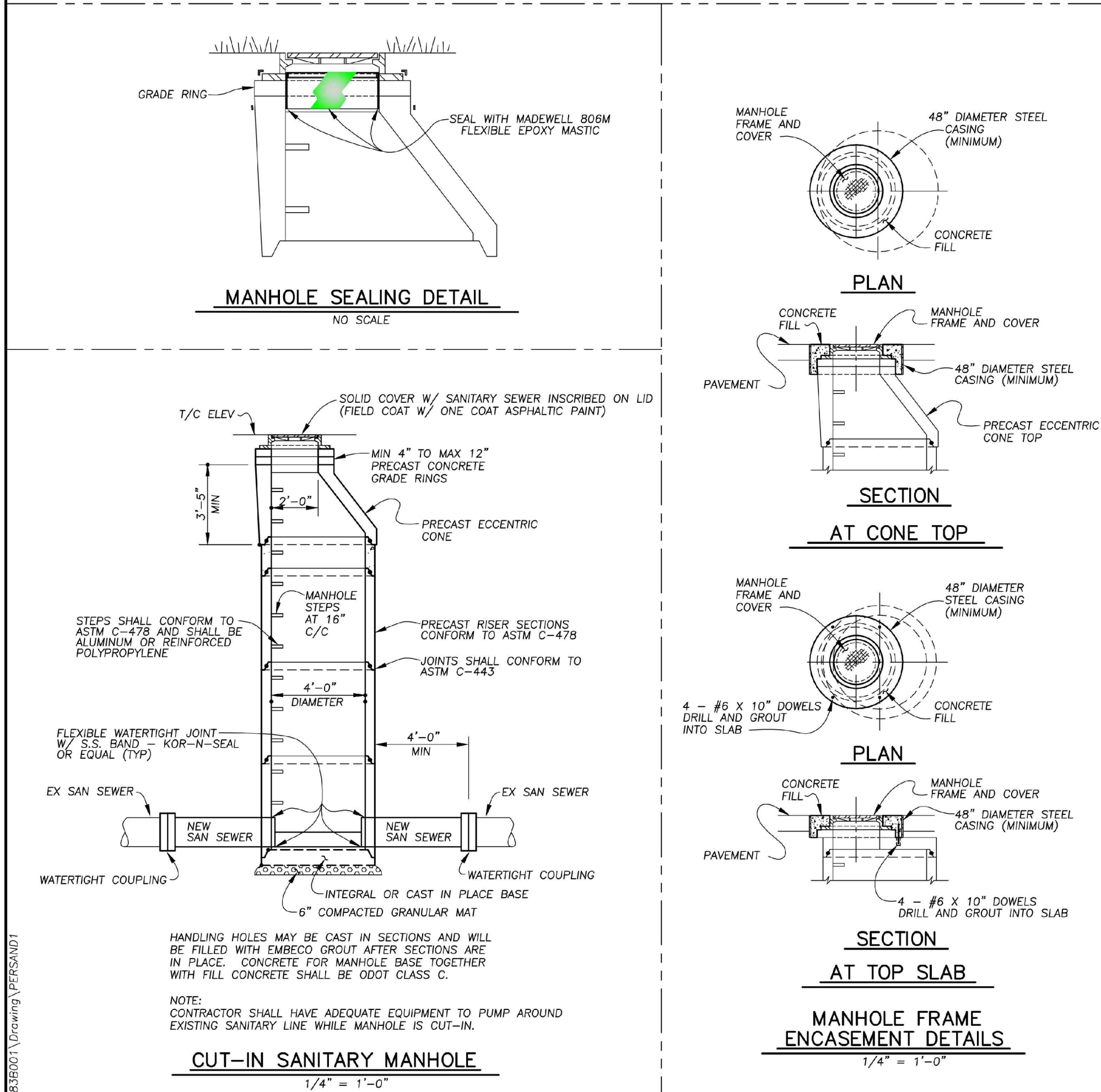
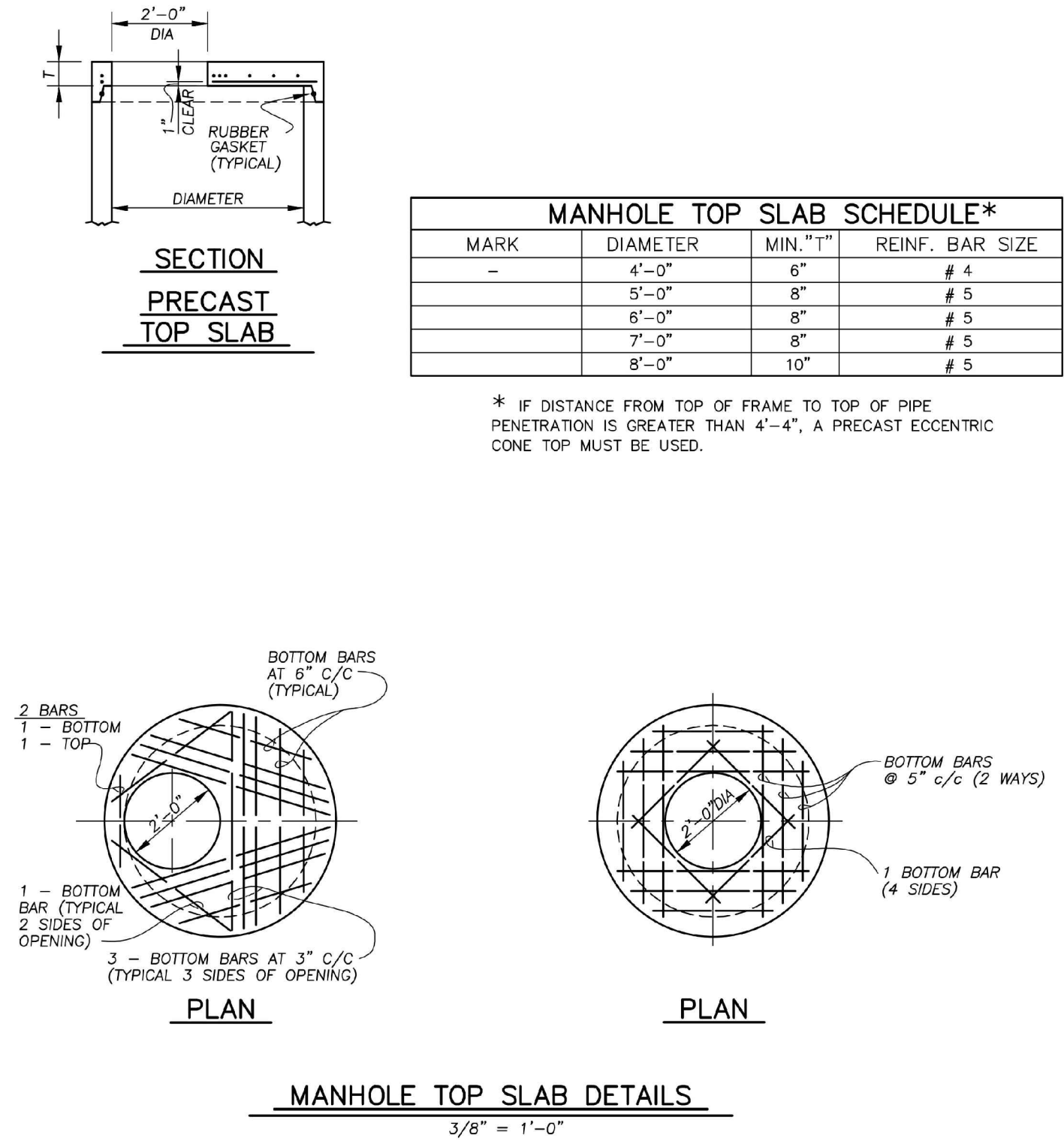
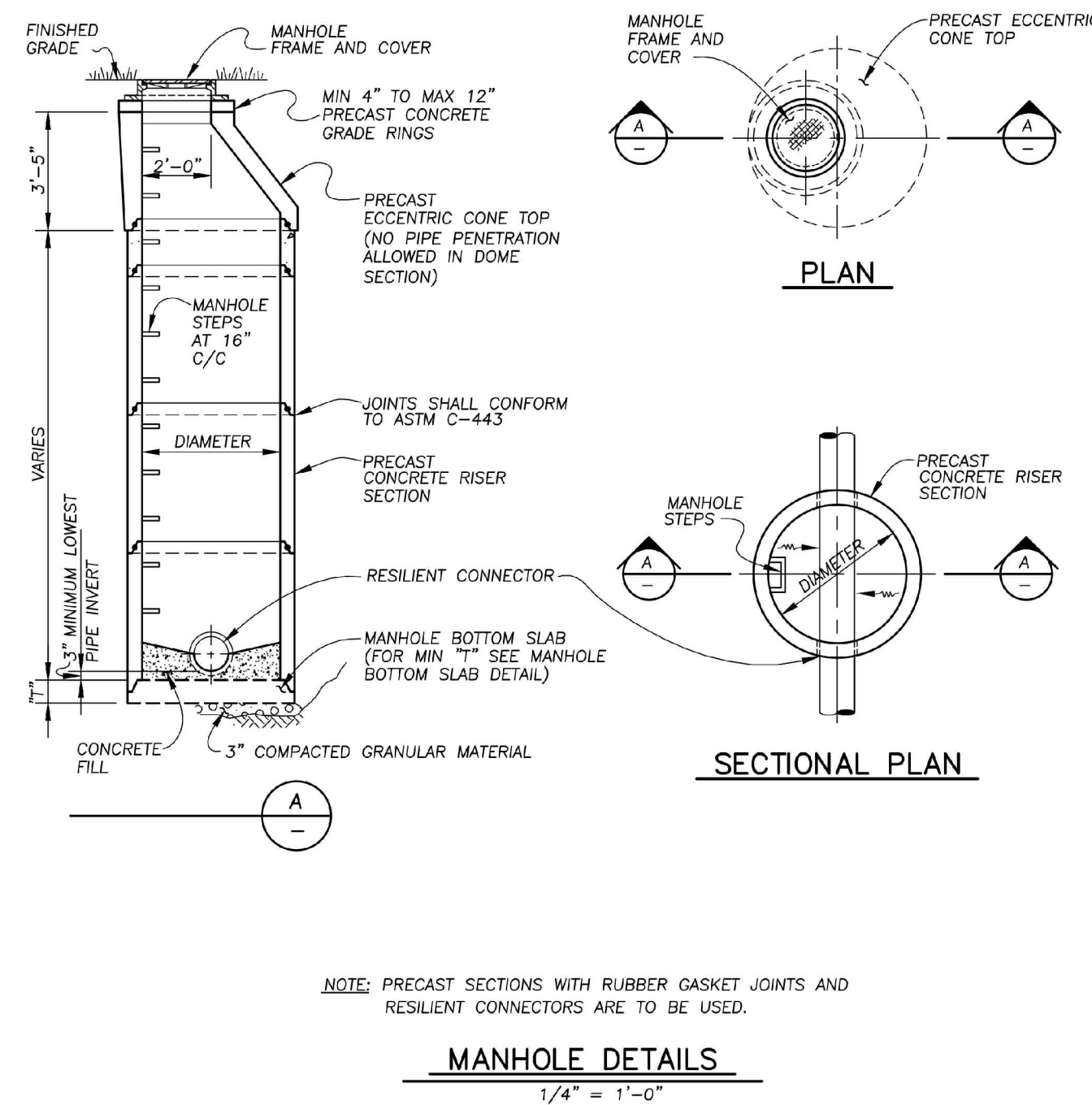
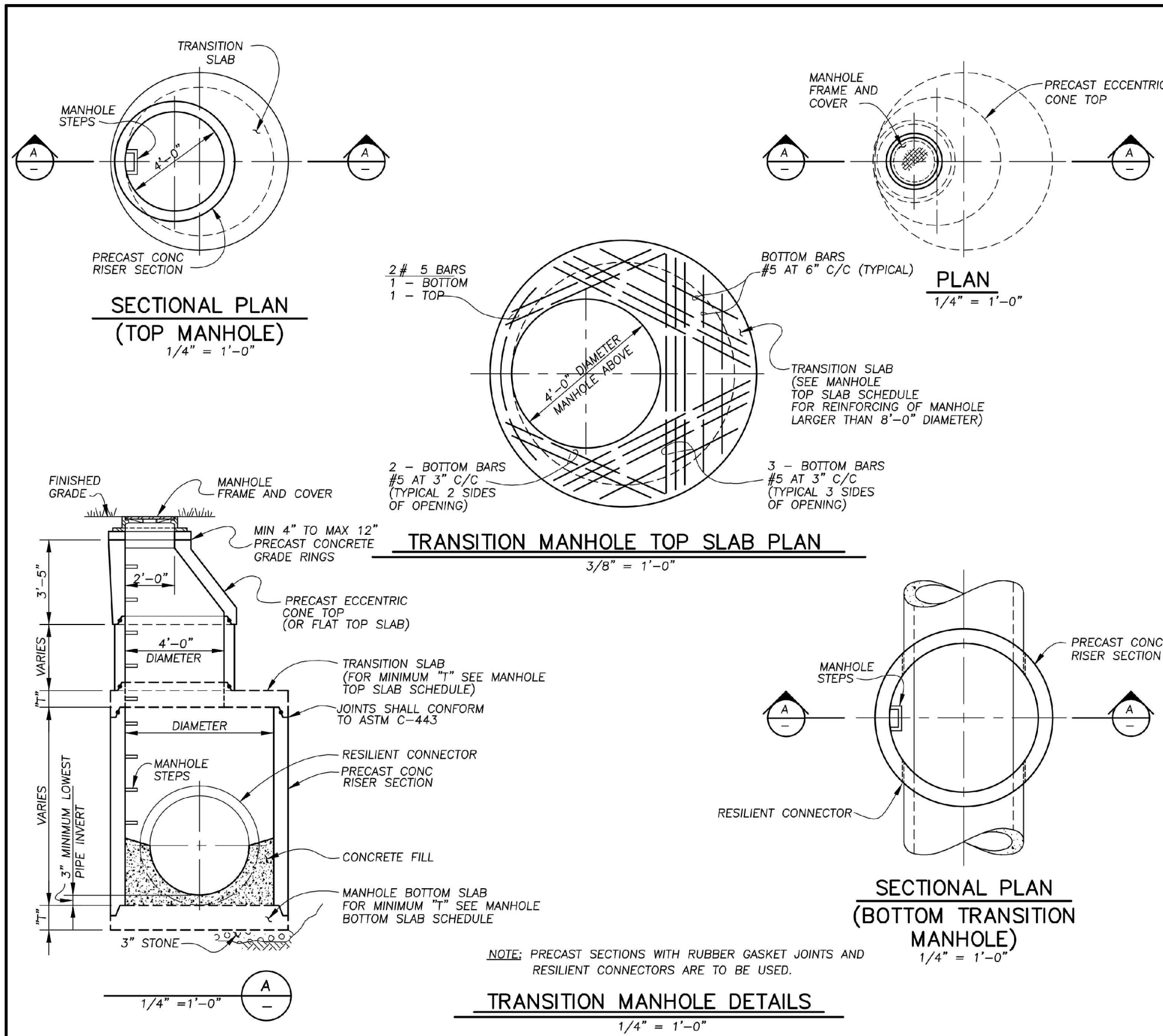
- crown, sealing any opening around the pipe water-tight, and a clear plastic tube attached to the pipe within the manhole and extended vertically to the top of the manhole. Prior to connecting the tube, blow air through the pipe with sufficient pressure to clear the line. Upon satisfactory completion of leakage testing, remove gages and permanently close openings in the manhole walls with non-shrink and non-metallic grout.
- c. Conduct an infiltration test on the main line sewer when pipe crown is covered with two feet or more of water at the highest point in the test section. Should ground water not provide sufficient head, flood trench within test section, bulkheading each end, to obtain or maintain the specified external head.
- d. Plugs used during leakage tests shall be of a length at least equal to the diameter of the pipe being tested to ensure a watertight seal.
3. Infiltration Tests:
- a. The length of sewer subject to each test shall be the distance between two adjacent manholes as a minimum, 700 feet as a maximum, but shall be left to the discretion of the City.
- b. Isolate test section and cap or plug all service connections and stubs within the section to prevent the entry of ground water.
- c. Measure infiltration by a V-notch weir located in the downstream manhole.
- d. Maintain test head for not less than 24 hours before a weir measurement is made.
- e. Maximum allowable leakage, including manholes, shall be 100 gallons per inch of diameter per mile of pipe per day.
4. Exfiltration Tests
- a. The length of sewer subject to an exfiltration test shall be the distance between two adjacent manholes as a minimum, 700 feet as a maximum, but shall be left to the discretion of the City.
- b. Close upstream and downstream manhole inlets with water-tight plugs and fill the test section with water until the elevation of the water in the upstream manhole is 2 feet above pipe crown in the line being tested, or 2 feet above the existing ground water in the trench, whichever is higher.
- c. A standpipe may be used instead of the upstream manhole for providing the pressure head when approved by the City.
- d. Measure exfiltration by determining the amount of water required to maintain the initial water elevation for 1 hour from the start of the test.
- e. Maximum allowable leakage, including manholes, shall be 100 gallons per inch of diameter per mile of pipe per day.
5. Air Tests:
- a. Conduct an air test between each two consecutive manholes.

- f. With valves closed, measure the time for the vacuum to drop to 9 inches. The test shall be successful if the time measured meets or exceeds the values indicated in the following table:

MINIMUM TEST TIMES IN SECONDS			
MANHOLE DEPTH	MANHOLE DIAMETER *	48"	60"
8' or less	20	26	33
10'	25	33	41
12'	30	39	49
14'	35	46	57
16'	40	52	65
18'	45	59	73
20'	50	65	81
22'	55	72	89
24'	59	78	97
26'	64	85	105
28'	69	91	113
30'	74	98	121
32'	79	104	128
34'	83	110	136
36'	88	116	144
38'	93	122	152
40'	97	128	159

MINIMUM TEST TIMES IN SECONDS			
MANHOLE DEPTH	MANHOLE DIAMETER *	84"	96"
8' or less	40	48	56
10'	50	58	67
12'	59	69	79
14'	68	80	92
16'	77	91	104
18'	87	102	116
20'	97	113	129
22'	106	123	140
24'	116	134	152
26'	125	148	168
28'	135	157	179
30'	144	168	192
32'	154	179	204
34'	162	190	217
36'	172	201	229
38'	182	213	242
40'	191	223	254

- * When there is a transition involved, add the times for each size based on the depth associated with each size.
- Draw a vacuum of 10 inches of mercury and then shut the vacuum pump off.



PAVEMENT AND SANITARY SEWER
STANDARD DETAILS
CITY OF PERRYSBURG, OHIO
DEPARTMENT OF PUBLIC SERVICE
DIVISION OF WATER POLLUTION CONTROL

#67 LIMESTONE CONFORMING TO TABLE 703-1 OF THE STATE OF OHIO DEPT. OF TRANSPORTATION SPECIFICATIONS

1'-0"

1'-0"

4"

66"

66"

66"

66"

ODOT CLASS C CONCRETE

PROPOSED SANITARY SEWER

SEE PLANS FOR LENGTH OF ENCASEMENT

3" R.

6"

5"

1/4" R.

6"

1/2"

1'-6"

6"

SURFACE OF PAVEMENT

JOINT SEALER

PREFORMED JOINT MATERIAL
ITEM 705.03

TOP OF CURB TO BE
TO THIS POINT AT ALL DRIVES

2" INCH RAISED LETTERS
FLUSH W/ TOP SURFACE OF LID.

EAST JORDAN IRON WORKS, INC., CATALOGUE 1040
WITH SOLID LID TYPE B OR AS APPROVED; MACHINED
SURFACE, FRAME WITH 24 INCH DIAMETER CLEAR
OPENING, AND 7 INCH HEIGHT, LIDS TO HAVE "CITY OF
PERRYSBURG, OH" - "SANITARY" CAST INTO TOP.

Diagram illustrating the cross-section of a storm sewer installation, showing the following components and layers:

- EXISTING PAVEMENT
- SAWCUT
- APPLY TACK COAT
- 2" ODOT ITEM 448, TYPE 1 (MEDIUM TRAFFIC) SURFACE COURSE PG 64-22
- 2" ODOT ITEM 448, TYPE 2 (MEDIUM TRAFFIC) INTERMEDIATE COURSE PG 64-22
- SEAL
- ASPHALT CEMENT COATING
- 12" ODOT ITEM 304 AGGREGATE BASE (PLACED IN 2 LIFTS)
- 9"
- 9"
- GRANULAR BACKFILL
- PROPOSED STORM SEWER
- BEDDING

[illegible]

SECTION
RISERS WHERE DEPTH
OF MAIN SEWER
EXCEEDS 12'-0"
(FOR FUTURE LOTS)

Diagram illustrating the cross-section of a curb and gutter. The pavement area is labeled "5'-0\" BEYOND EDGE OF PAVEMENT". The curb is labeled "SURFACE AT EDGE OF PAVEMENT OR BACK OF CURB". The gutter is labeled "PIPE BEDDING, BASE ON PIPE SIZE".

Diagram illustrating the maximum trench width and backfill requirements:

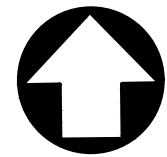
- MAXIMUM TRENCH WIDTH AT TOP OF PIPE**: Indicated by a dimension line across the top of the trench.
- BEYOND EDGE OF PAVEMENT**: Indicated by a dimension line showing the width of the trench beyond the pavement edge.
- 5'-0"**: The maximum width of the trench beyond the edge of the pavement.
- SURFACE AT EDGE OF PAVEMENT OR BACK OF CURB**: Indicated by a dashed line showing the surface level.
- PIPE BEDDING, BASED ON PIPE SIZE**: Indicated by a hatched area at the bottom of the trench.
- PIPE**: Indicated by a circle with a cross inside, representing the pipe at the bottom of the trench.

A cross-sectional diagram of a trench. The trench is filled with granular backfill, indicated by diagonal hatching. The top of the backfill is labeled "MAXIMUM TRENCH WIDTH AT TOP OF PIPE" with a dimension line. The bottom of the trench is labeled "PIPE BEDDING" with a dimension line. The granular backfill is labeled "GRANULAR BACKFILL MATERIAL" with a dimension line. The trench is shown in a cross-section, with the ground surface on either side.

REVISED
DECEMBER 2015

SANITARY SEWER STANDARD SPECIFICATIONS THE VILLAGES AT CANTERBURY PLAT 4

CURVE DATA					
CURVE	ARC LENGTH	RADIUS	CENTRAL ANGLE	CHORD BEARING	CHORD LENGTH
C1	196.42'	125.00'	90°01'53"	N 45°48'51" W	176.83'

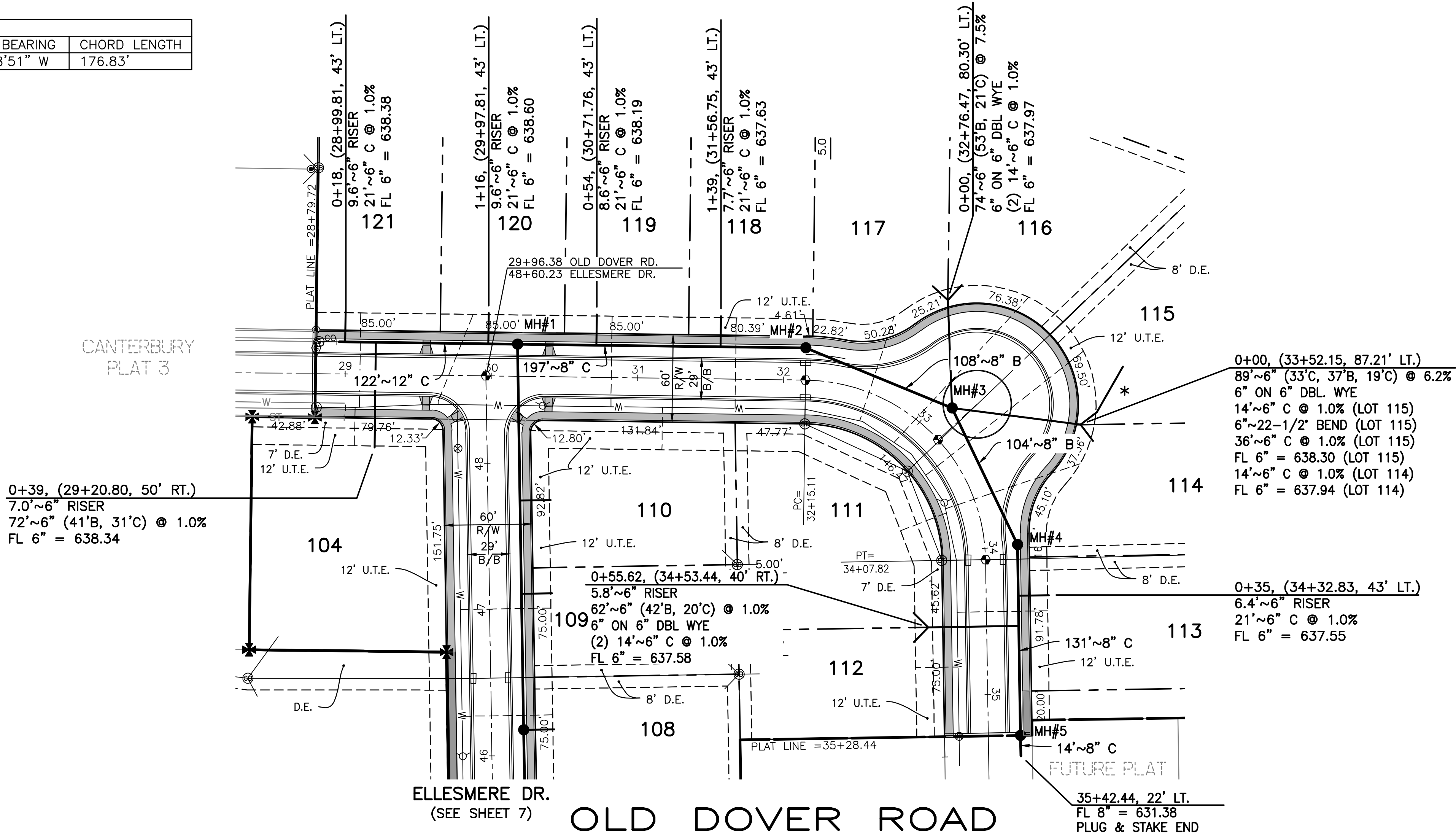


SCALE: 1"=50'

FELLER, FINCH & ASSOCIATES, INC.			
REVISION	DATE	DESIGN BY:	CMG
		DRAWN BY:	RSP
		CHECKED BY:	CMG
		DATE:	7-6-2023
		DRAWING NO:	072325P04A1-48

EASEMENT ABBREVIATIONS

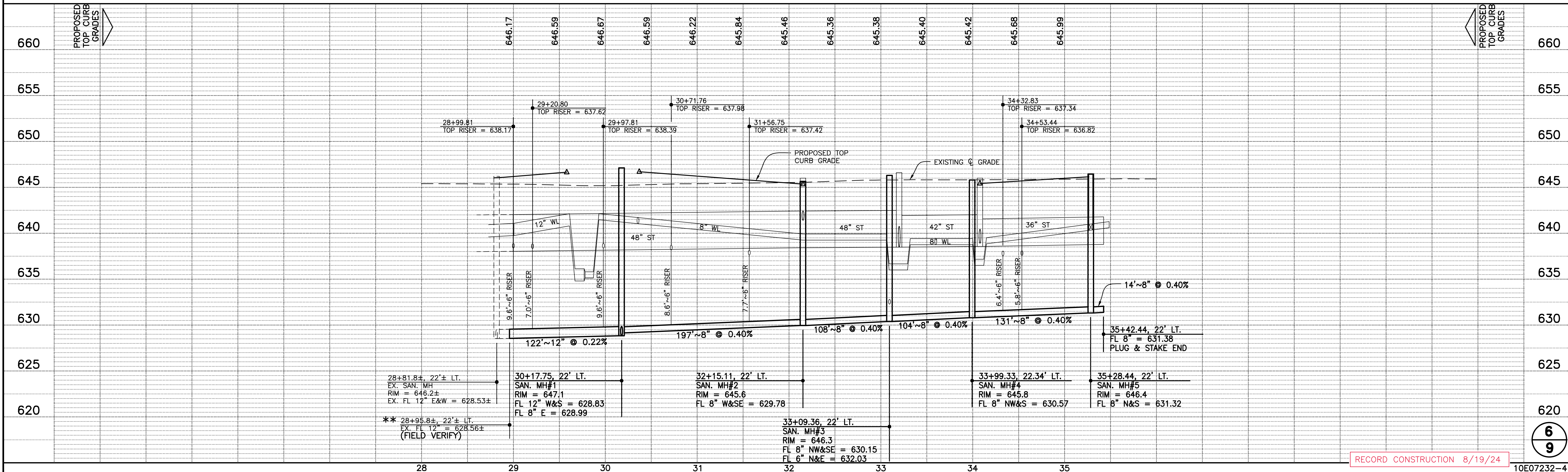
D.E.....DRAINAGE EASEMENT
U.T.E.....UTILITY & TOLEDO EDISON EASEMENT



* COMPACTION NOTE:

FOR THE SECTIONS OF SANITARY TAP WHICH CROSS THE LOT, PLACE THE TRENCH BACKFILL IN MAXIMUM 12" LIFTS AND COMPACT EACH LAYER WITH A MINIMUM OF TWO PASSES WITH AN EXCAVATOR MOUNTED VIBRATORY PLATE COMPACTOR.

** FIELD VERIFY EXISTING ELEVATION PRIOR TO INSTALLATION OF PROPOSED SEWER.



RECORD CONSTRUCTION 8/19/24

NORTH

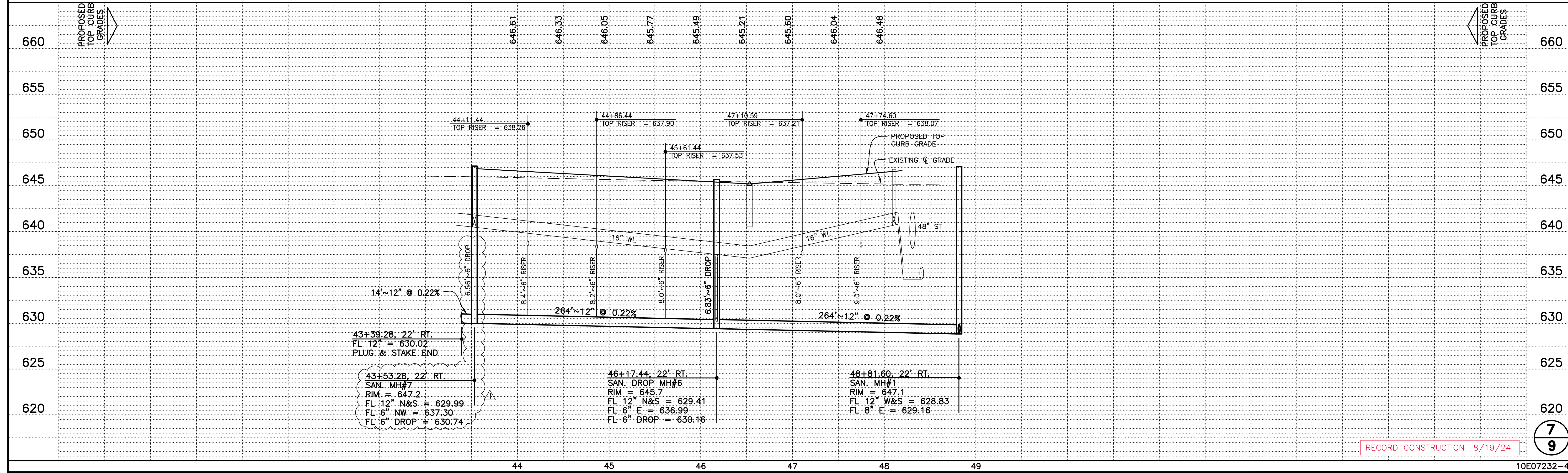
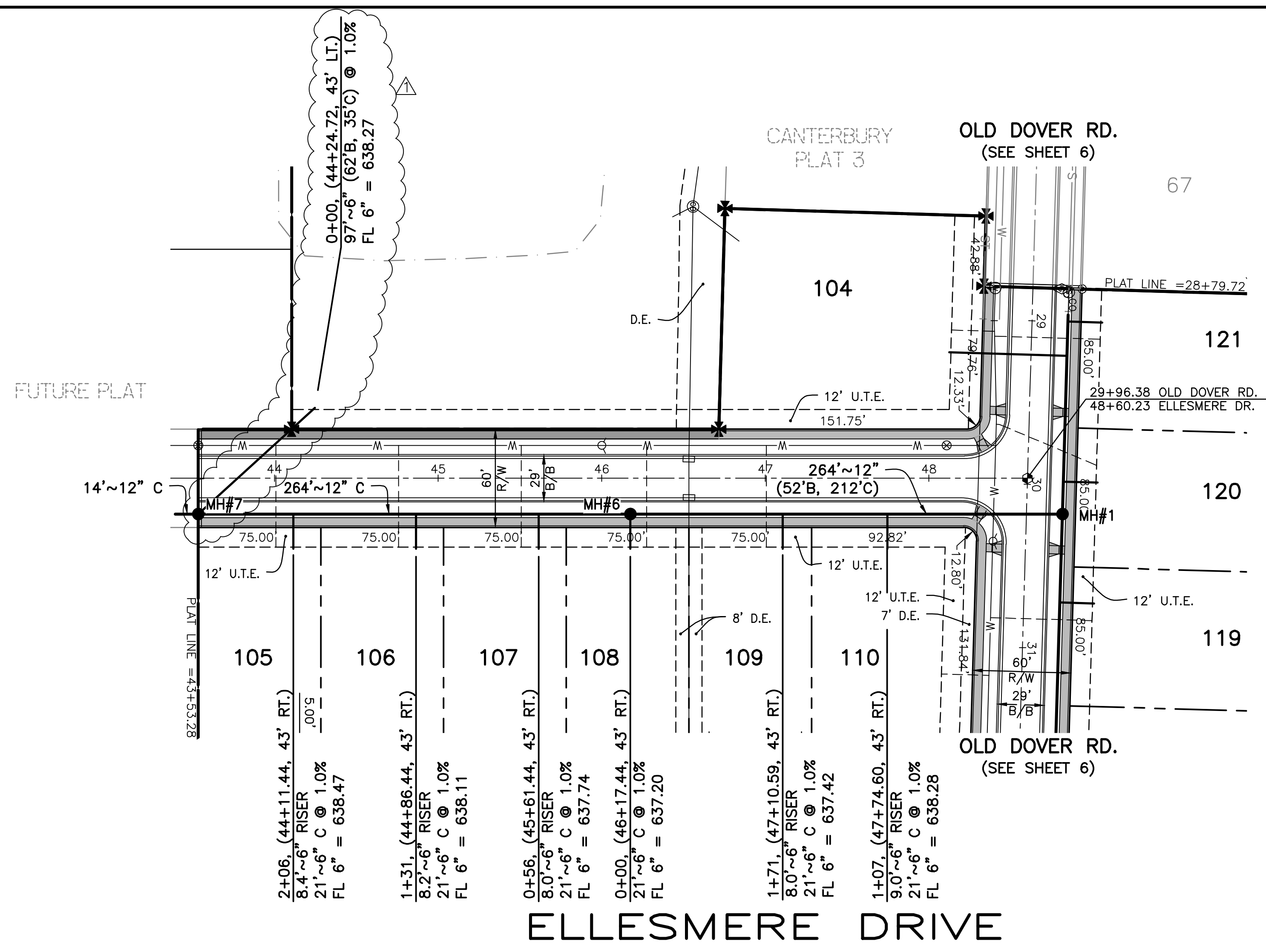
SCALE: 1"=50'

FELLER, FINCH & ASSOCIATES, INC.			
REVISION	DATE	DESIGN BY:	CMG
1	9/13/24	DRAWN BY:	RSP
		DATE:	2-6-2023
		CHK'D BY:	CMG
		DRAWING NO.	07232SP04M1-A0

EASEMENT ABBREVIATIONS

D.E.....DRAINAGE EASEMENT

U.T.E.....UTILITY & TOLEDO EDISON EASEMENT



CURVE DATA					
CURVE	ARC LENGTH	RADIUS	CENTRAL ANGLE	CHORD BEARING	CHORD LENGTH
C1	196.42'	125.00'	90°01'53"	N 45°48'51" W	176.83'

NORTH

SCALE: 1"=50'

FELLER, FINCH & ASSOCIATES, INC.

REVISION	DATE	DESIGN BY: CMG
		DRAWN BY: RSP
		CHECKED BY: CMG
		DATE: 2-6-2023
		DRAWING: 07232SP04M1-A8

EASEMENT ABBREVIATIONS

D.E.....DRAINAGE EASEMENT

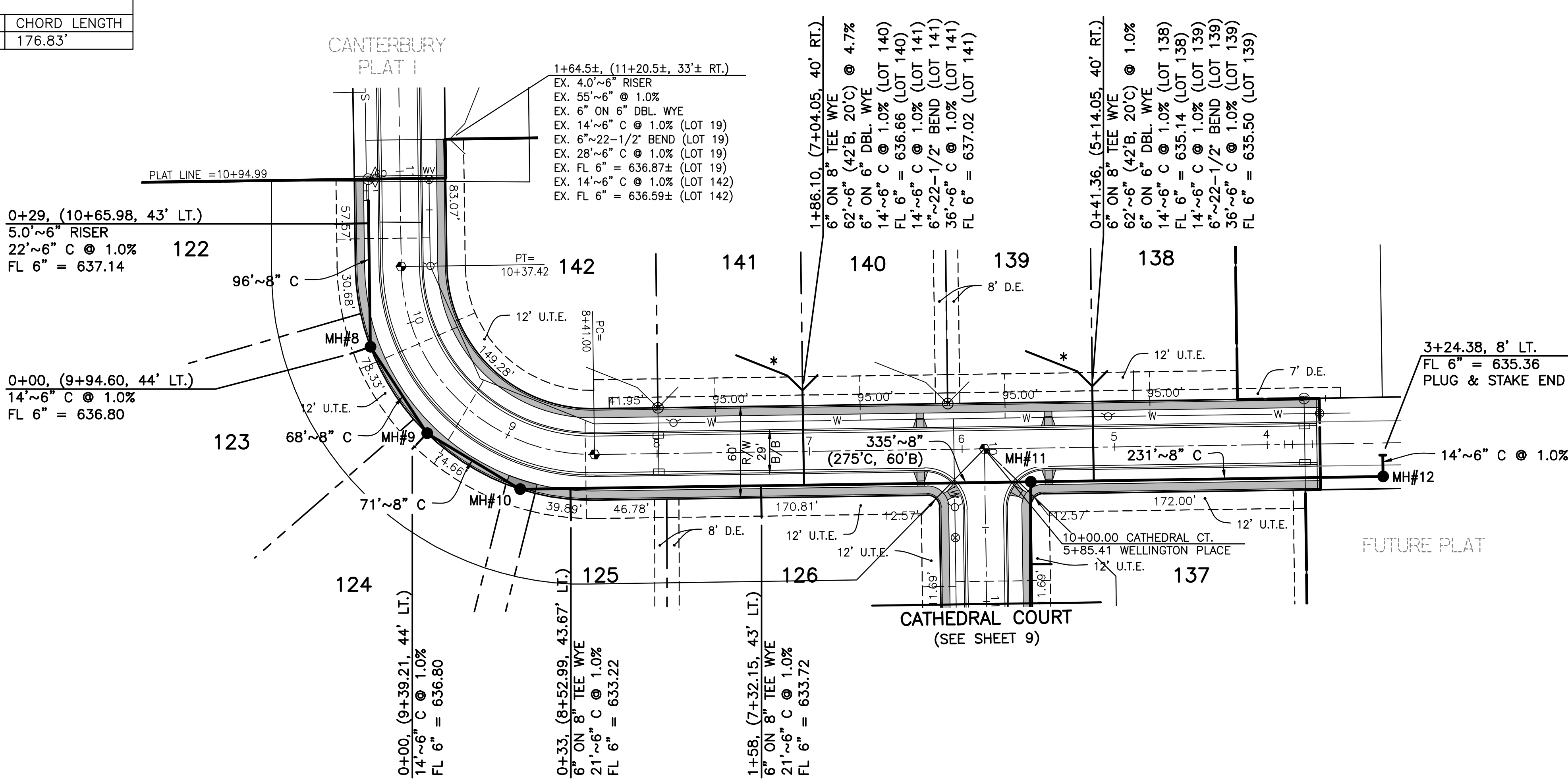
U.T.E.....UTILITY & TOLEDO EDISON EASEMENT

TAP DATA AT SANITARY MAIN		
LOT NO.	FL OF MAIN @ TAP	FL OF TAP @ MAIN
125	FL 8" = 632.92	FL 6" = 633.01
126	FL 8" = 633.42	FL 6" = 633.51
138/139	FL 8" = 634.30	FL 6" = 634.38
140/141	FL 8" = 633.53	FL 6" = 633.62

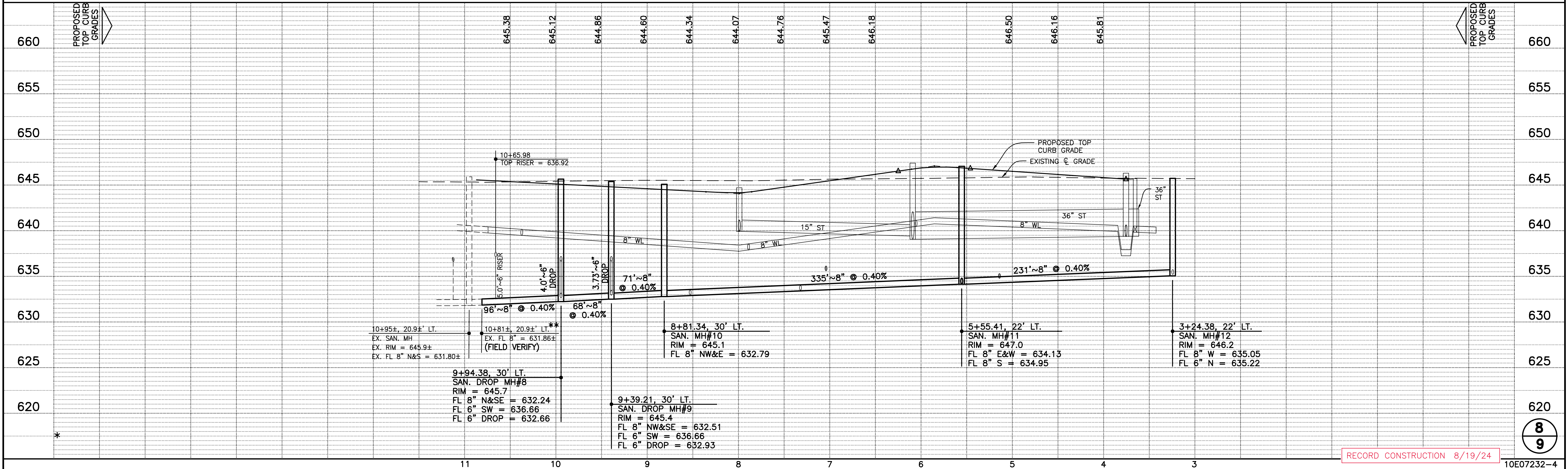
* COMPACTION NOTE:

FOR THE SECTIONS OF SANITARY TAP WHICH CROSS THE LOT, PLACE THE TRENCH BACKFILL IN MAXIMUM 12" LIFTS AND COMPACT EACH LAYER WITH A MINIMUM OF TWO PASSES WITH AN EXCAVATOR MOUNTED VIBRATORY PLATE COMPACTOR.

** FIELD VERIFY EXISTING ELEVATION PRIOR TO INSTALLATION OF PROPOSED SEWER.



WELLINGTON PLACE



NORTH

SCALE: 1"=50'

FELLER, FINCH & ASSOCIATES, INC.

REVISION	DATE	DESIGN BY: CMG
		DRAWN BY: RSP
		CHECKED BY: CMG
		DATE: 7-6-2023
		DRAWING: 07232SP041-A

EASEMENT ABBREVIATIONS

D.E.....DRAINAGE EASEMENT

U.T.E.....UTILITY & TOLEDO EDISON EASEMENT

TAP DATA AT SANITARY MAIN			
LOT NO.	FL OF MAIN @ TAP	FL OF TAP @ MAIN	
127/128	FL 8" = 635.85	FL 6" = 635.93	
134	FL 8" = 636.33	FL 6" = 636.41	
135	FL 8" = 635.95	FL 6" = 636.03	
136	FL 8" = 635.57	FL 6" = 635.65	
137	FL 8" = 635.17	FL 6" = 635.25	

* **COMPACTION NOTE:**
FOR THE SECTIONS OF SANITARY TAP WHICH CROSS THE LOT, PLACE THE TRENCH BACKFILL IN MAXIMUM 12" LIFTS AND COMPACT EACH LAYER WITH A MINIMUM OF TWO PASSES WITH AN EXCAVATOR MOUNTED VIBRATORY PLATE COMPACTOR.

SANITARY SEWER

CATHEDRAL COURT

THE VILLAGES AT CANTERBURY PLAT 4

RECORD CONSTRUCTION 8/19/24

10E07232-4

9

CITY OF PERRYSBURG, WOOD COUNTY, OHIO

TITLE SHEET	1
GENERAL NOTES & DETAILS	2-4
PLAN AND PROFILE	5-8

WATERMAIN THE VILLAGES AT CANTERBURY PLAT 4

FELLER, FINCH & ASSOCIATES, INC.			
REVISION	DATE	DESIGN BY:	CMG
		DRAWN BY:	RSP
		DATE:	2-6-23
		CHK'D BY:	CMG
		DRAWING#-07232WP041-A	

PAVEMENT AND WATER MAIN SPECIFICATIONS	
PART 1 GENERAL	E. Before any water is obtained from hydrants for construction purposes, Contractor shall secure a hydrant meter set-up by placing a security deposit with the Department of Public Utilities Office, at 211 East Boundary Street, 419-872-8050.
1.1 SUMMARY	F. Any work within the City's public rights-of-way requires a Street Opening Permit which is obtained from the Department of Public Utilities Office, at 211 East Boundary Street, 419-872-8055.
A. Water mains and appurtenances.	
1. Water Mains shall be of PVC/PVCO pipe with ductile iron fittings.	
2. Fire Lines (Water Mains) shall be of ductile iron pipe and fittings	
B. Pavement for local roads.	
C. Disinfection of water mains.	
1.2 STANDARDS	
A. All materials and conditions shall be in accordance with Standard and Specifications of the City of Perrysburg (the City), and/or the current American Society of Testing Materials (ASTM), and/or the current American Water Works Association (AWWA) standards and specifications, and/or the current Ohio Department of Transportation (ODOT) Construction Materials and Specifications (CMS), and/or the current Ohio Environmental Protection Agency (OEPA) standards and specifications. In case of conflict, the City Standard and Specifications shall take precedence.	
B. All references to Standards and Specifications are to the latest edition, unless otherwise noted.	
C. The City's Water Main Standard Details apply to these specifications	
1.3 PRE-CONSTRUCTION MEETINGS, INSPECTION, AND PERMITS	
A. All construction projects involving: connection to, relocation of, future City ownership, or work within public rights-of-way, shall require a pre-construction meeting with the Design Engineer, Contractor, on-site inspection firm, and all involved City Divisions.	
B. As requested by the City, full time on-site inspection may be required and at the expense of the Developer.	
C. Water connection permits shall be obtained from the Department of Public Utilities Office, 211 East Boundary Street, 419-872-8050, a minimum of ten (10) calendar days prior to the of start of construction.	
D. Department of Public Utilities (419-872-8050) shall be contacted a minimum of seven (7) calendar days requesting on-site inspection when connecting to City utilities.	

L:\Engineering Division\Engineering Guests\Standard Specifications\11x17 Standard Water Main Specifications_01-05-15.docx

Page 1 of 7

DECEMBER 2015

1.7 QUALITY ASSURANCE	A. The manufacturer(s) shall provide an affidavit that all pipe, valves, hydrants, fittings, and appurtenances have been manufactured and tested in accordance with the requirements of the applicable referenced Standards. A copy of the affidavit, including the project on which the material is to be used, shall be forwarded to the City prior to construction.
B. All pipes, fittings, valves, fire hydrants and appurtenances shall be appropriately marked for identification purposes. The materials and methods of manufacture, and completed pipes, fittings, valves, and appurtenances shall be subject to inspection and rejection at all times. The City has the right to make inspections.	
1.8 STORAGE AND PROTECTION	A. At no time shall other pipes or material be placed in the pipes to be installed.
B. Repair damage to pipe exterior and interior surfaces; pipe so damaged subject to rejection.	
1.9 RESTORATION	A. All existing features that are disturbed due to construction activities, such as mailboxes, shrubs, bushes, guardrails, pavement markings, swales, sewers, catch basins, curbs, seeded areas, etc. shall be replaced to their original condition, unless otherwise specified. In accordance with current ODOT specifications and to the satisfaction of the City. Existing survey monuments, bench marks, property corner points, and control points damaged or disturbed by construction shall be replaced by a registered land surveyor, licensed in the State of Ohio.
B. Restoration of street openings shall be in accordance with the City's Standard Street Opening Repair Details.	
C. In existing streets, provide a temporary pavement upon completion of backfilling operations and maintain same until the permanent pavement can be placed. Temporary pavement shall be a minimum 2-inch thick asphalt concrete mix in accordance with ODOT Item 614.13.	
2.6 BACKFILL	A. Earth Backfill: Excavated earth material, finely divided and free of stones 3 inches or greater in any dimension to at least 3 feet above pipe top.
B. Granular Material: ODOT Item 304 crushed limestone.	
C. Control Density Fill (CDF): A mix of Portland cement, fly ash and selected granular materials with a compressive strength of 100 psi; Kuhlman Corporation "K-Krete", or as approved.	
2.7 BACTERIA SAMPLING AND FLUSHING ASSEMBLIES	A. Follow Service Connection Assemblies as shown above, with the following modifications: 1. Curb box is not required 2. A ball valve may be substituted for the curb stop. a. Manufacturers: Stockholm, Model S-216; Nilco, Model No. S-585-70 or T-585-70; or as approved. b. Bronze, two-piece body, chrome-plated, brass ball, Teflon seats and stuffing box ring, lever handle and balancing stops, solder or threaded ends with union. 3. Approved piping and fittings (90 degree elbow) shall be provided a distance of 4 feet above grade. 4. Valve shall be located to allow individual taking sample to turn valve on-off while holding sampling jar.
2.8 POLYETHYLENE ENCASEMENT	A. AWWA C105, 8 mil linear low-density polyethylene tube or 4 mil high density, cross-linked polyethylene tube, 2 inch wide plastic-backed, adhesive tape, bond to both metal surfaces and polyethylene film.
2.9 TRACE TAPE	A. Inert bonded layer plastic with metallized foil core, 6 inches wide, resistant to alkalis, acids and other destructive chemical components encountered in soils; APWA Uniform Color Code, brightly colored; imprinted indicating pipe type; Griffey Company Terra Tape "D", Seton Name Plate Corporation, or as approved.
2.10 JOINT BOLTS AND NUTS	A. All ductile iron fittings, and appurtenances (valves, hydrants, restrained joints, etc.) shall be installed with COR-BLUE (COR-

L:\Engineering Division\Engineering Guests\Standard Specifications\11x17 Standard Water Main Specifications_01-05-15.docx

Page 3 of 7

DECEMBER 2015

2.11 BEDDING MATERIAL	A. Fine excavated material except in paved areas; standard size No. 6 stone fill as shown at fire hydrants and at blow-off assemblies, except no slag permitted.
B. ODOT No. 67 or No. 57 crushed limestone in paved areas.	
C. Concrete Thrust Blocks, Concrete Encasement, and Valve Box Concrete Collar: ODOT Class C Concrete.	
2.12 LOCAL ROADS	A. Asphalt Concrete Pavement: 1. -1/2 inches ODOT Item 448, Type 1 (medium traffic) Surface Course, PG 64-22. 2. 2 inches ODOT Item 448, Type 2 (medium traffic) Intermediate Course, PG 64-22 3. 10 inches ODOT Item 304, Aggregate Base (placed in 2 lifts). 4. On aggregate base, apply ODOT Item 408 Prime Coat at rate of 0.35 gallons per square yard. Installation to be directed by the City. 5. ODOT Item 407; apply tack coat at the rate of 0.04 gallons per square yard to be placed between intermediate and surface courses and joints. 6. Sealer for Contact and Mating Surfaces and Joints: Comply with ODOT Items 401.14 and 401.17. 7. Pavement Sealer: When requested by and as approved by the City. B. Concrete Driveways and Parking Areas: 1. Pavement: ODOT Item 452 Non-Reinforced Portland Cement Concrete Pavement. 2. Reinforcement: Match existing. a. Commercial Drives: minimum 9 inch thick or match existing b. Residential Drives: minimum 6 inch thick or match existing 3. Hook Bolts or Deformed Bars in Roadways: a. Provide 5/8-inch hook or deformed bolts where new abuts existing. b. Furnish and install at 30 inches center to center where new abuts existing longitudinally. c. When thickness is less than 10 inches, as determined by the City, furnish and install at 20 inches center to center where new abuts existing transversely. d. When thickness is greater than 10 inches, as determined by the City, furnish and install at 26 inches center to center where new abuts existing transversely.
2.13 MONUMENT ASSEMBLY (IN PAVED AREAS)	A. Neenah Foundry Company, R 1978 A2 with bolted lid.
2.14 CURB RAMP DETECTABLE WARNING TRUNCATED DOMES	A. Materials: 1. Follow current ODOT Specifications 712.14 as modified herein. 2. Truncated Domes: Shall consist of cast-in-place reinforced polymer composite tiles. 3. Material supplied shall be red color, and installed by pressing tiles into place in the freshly poured concrete. 4. Material supplied and installed shall meet ODOT Standard Drawings and current approved products as listed at: http://www.dot.state.oh.us/Divisions/Engineering/Roadway/DesignStandards/Roadway/Pages/Approved%20Products.aspx (DETECTABLE WARNINGS) B. Concrete: ODOT Class C.
2.15 DISINFECTION PRODUCTS	A. Chemicals: Calcium Hypochlorite granules or 5 gram tablets; 1 percent chlorine solution (10,000 mg/l), prepared by mixing 1 pound of calcium hypochlorite (approximately 65 percent available chlorine by weight) and 8 gallons of water. B. Food-Grade Adhesive: Permatex Form-A-Gasket No. 2 and Permatex Clear RTV Silicone Adhesive Sealant by Locktite Corporation.
PART 3 EXECUTION	
3.1 PREPARATION	A. String pipe sections along the route of the mains so as to interfere least with pedestrian and vehicular traffic and to protect the pipe. B. Excavate trenches to a depth of 4 inches below the outside bottom of the pipe barrel and bell when the pipe is laid on its final grade to allow for bedding material. C. Do not install service connections until new mains have been successfully tested, disinfected, and placed in service. D. Verify that polyethylene encasement is in place, where required, before placing bedding.

PAVEMENT AND WATER MAIN SPECIFICATIONS

3.2 BEDDING	A. Place bedding material at trench bottom and shape for accurate placement and proper support of pipe. B. Place bedding material (ODOT No. 67 or No. 57 crushed limestone) under, beside, and to 12 inches over the pipe sewer for the full width of the trench; place in 6 to 12-inch layers, loose measure, and work the crushed stone around the pipe to provide even support, to fill all voids, and to lightly compact the crushed stone (by hand). C. Carefully place and tamp so as not to puncture polyethylene encasement, or damage or displace joints or pipe. Do not drop material directly on pipe. D. Construct thrust blocks at plugs as detailed. Place against firm, undisturbed soil. Protect end of plug from concrete adhesion to allow for future removal. E. Construct concrete encasement under ditches as shown.
3.3 INSTALLATION - WATER MAIN PIPE AND FITTINGS	A. Provide non-conducting dielectric connections wherever jointing dissimilar metals. B. Install water mains at a minimum 10 foot horizontal distance from sewers and manholes and at a minimum 18-inch vertical distance from sewers at their crossing, both as measured between the outside of pipe walls. At crossings, install one full length of water line pipe so both joints will be as far from the sewer as possible. C. Install pipe in locations and at grades shown or specified, except as otherwise permitted or ordered by the City to avoid existing or proposed utility lines or other obstructions encountered; to secure a more readily accessible position for trenching; or to facilitate the location of various pipe appurtenances; avoid high and low points in the main D. Use suitable fittings, usually 1/8 bends, when abrupt grade changes of the pipe are necessary to avoid existing utilities or other obstructions, so as to secure an easy flow of liquid and to provide sufficient cover below same unless noted otherwise. E. Install pipe to allow for expansion and contraction without stressing pipe or joints. F. Deflect pipe joints in strict accordance with pipe manufacturer's instructions.
E. Water Main Minimum Height of Cover: 5 feet.	
G. Locate pipe to maintain a minimum clearance of 18 inches in all directions, with respect to other utilities, to allow for taps to be inserted.	
H. With push-on joints, wipe surfaces that contact rubber gasket clean and dry just prior to making joint. Use a lubricant in accordance with the manufacturer's instructions when making joint.	
I. With mechanical joints, brush surfaces that contact rubber gasket with soapy water to remove all sand and grit just prior to making joint.	
J. Install tracer tape continuous over top of PVC pipe; locate 18 inches below finished grade.	
K. Install polyethylene encasement for all ductile iron pipe, fittings, and appurtenances; comply with AWWA C105 Method A and manufacturer's instructions. Completely tape all overlaps and seams. Repair all rips, punctures, and other damage to the polyethylene.	
L. Provide polyethylene encasement for each ductile iron fitting for a distance of 5 feet each side thereof; comply with AWWA C105 Method A and manufacturer's instructions. Completely tape all overlaps and seams. Repair all rips, punctures and other damage to the polyethylene.	
M. Clean all pipes thoroughly inside and outside before lowering into trench; keep pipes clean during and after laying; and seal the pipe end with a water-tight plug when pipe laying is stopped for any reason.	
N. From the top of the bedding to a point 5 feet below the adjacent ground level, backfill trenches in and within 5 feet of the edge of existing and proposed paved or stoned streets, alleys, driveways, sidewalks, and parking areas with granular material (ODOT No. 304 crushed limestone). Place the crushed limestone material in maximum 12-inch loose layers and mechanically compact to not less than 100 percent of the maximum dry unit weight as determined in accordance with ASTM D698 (Standard Proctor), except where CDF is indicated on the Drawings.	
P. For trenches within 5 feet from the edge of existing and proposed paved or stoned streets, alleys, driveways, sidewalks, and parking areas, backfill with compacted granular material as specified above for trenches coming within same.	
Q. For backfilling trenches not requiring compacted granular material or CDF, replace as much of the excavated material as possible. Until backfilling has progressed to a depth of at least 3 feet over the top of the pipe barrel, use finely divided material, free of stones 3 inches or greater in any dimension, boulders and other harmful debris, and place in 24-inch layers, loose measurement, and compact by mechanical tamping. Place remainder of backfill in maximum 12-inch layers, loose measurement, and compact by mechanical tamping.	
R. Contractor is responsible for disinfection of the water main in accordance with AWWA C651 under Section 02675. Attention is directed to Section 4 - Preventive and Corrective Measures During Construction, of AWWA C651. If, in the City's opinion, the pipe contains dirt that may not be removed by subsequent flushing, clean and swab the pipe interior as necessary with a 1 percent chlorine solution (10,000 mg/l) prepared by mixing 1 pound of high-test calcium hypochlorite (65-70 percent Cl) and 8 gallons of water.	
S. Provide access fittings to permit testing and disinfection and bacteria sampling and flushing assemblies.	
T. When necessary to cut pipe at fittings, valves, or elsewhere, the remaining portions may be used to minimize the number of scrap pieces when the Work is complete; however, scrap pieces less than 5 feet in length shall not be used.	
U. Backfill trench for Work of this Section; follow Article 2.6.	
3.4 INSTALLATION - VALVES AND FIRE HYDRANT ASSEMBLIES	A. Maximum spacing between fire hydrants shall be no greater than 300 feet center to center distance as measured along the centerline of water main. B. Maximum spacing for mainline valves shall be installed no greater than 1,000 feet center to center distance as measured along the center of water main. C. Set valves plumb and on solid bearing; center and plumb valve box over valve; set box cover flush with finished grade. Provide expansion joint material around portion of box in concrete pavement or sidewalks. Provide a concrete collar around valve box located if asphalt or stone pavement. D. Set hydrants plumb and to grade of curb, street, alley, highway, or right-of-way with pumper nozzle toward middle line of street, highway, or right-of-way.

L:\Engineering Division\Engineering Guests\Standard Specifications\11x17 Standard Water Main Specifications_01-05-15.docx

Page 4 of 7

DECEMBER 2015

PAVEMENT AND WATER MAIN SPECIFICATIONS	
D. Regrade and reshape all road shoulders and all ditches and swales from existing high points to existing drainage structures or other outlets along the proposed improvement. Ditches, which are reshaped, shall have reasonable side slopes. Vertical or steep slopes will not be permitted.	a. For all bolted joints, bolt length shall be such that all threads of the nut will be engaged. b. Restrained push-on joints shall be completely boltless; McWane Super-Lock, American Flex-Ring, U.S. Pipe TR Flex, or as approved. Restrained mechanical joints shall be MEGALUG with Mega-Bond Coating System as manufactured by EBAA Iron, Inc., or as approved, of ductile iron and with a working pressure of at least 250 psi and a minimum safety factor of 2:1.
E. Seed all disturbed earth areas using the hydroseed method or placement of sod, both seed mixture and sod type shall be as approved by the City.	
PART 2 PRODUCTS	2.2 BUTTERFLY VALVES
2.1 PIPE AND FITTINGS	A. Manufacturers: Clow, DeZurik; Henry Pratt Co.; Kennedy; or as approved. B. AWWA C504, Class 150B; designed specifically for buried service; stainless steel shafts; mechanical joint ends when buried, fully gasketed, grease-packed, water-tight, self-locking actuator with standard AWWA operating nut and mechanical stop limiting devices, open by turning left (counterclockwise), bolts, nuts, and washers used by manufacturer to assemble valves to be Type 304 stainless steel. C. If required, provide operator with an extension stem such that operating nut is located no more than 4 feet below grade. Center extension stem in the valve box by approved stem guides.
A. PVC/PVCO Pipe with Ductile Iron Fittings: 1. Pipe: AWWA C900, DR 18, Pressure Class 235 for 4 inch through 12 inch diameter; AWWA C905, DR25, pressure class 165 for 14 inch diameter and larger; and AWWA C909, Pressure Class 150 for 4 inch through 24 inch diameter; cast iron equivalent O.D.; integral wall-thickened bell end type incorporating elastomeric gasket; furnished in nominal 20 foot laying lengths. 2. Fittings: AWWA C110 or C153, AWWA C111 rubber gasket joints, with all fittings to be polyethylene encased when buried. a. Exterior Coating: Asphaltic material, or AWWA C116 fusion-bonded epoxy coating. b. Interior Lining: AWWA C104 cement mortar with seal coat, or AWWA C116 fusion-bonded epoxy coating. 3. Joints: Push-on, with joints within the lengths noted on the Standard Details to be restrained type joints. a. Restrained joints shall be MEGALUG or retainers with Mega-Bond Coating System, as manufactured by EBAA Iron, Inc., or as approved, of ductile iron and with a working pressure at least equal to that of the PVC pipe on which to be installed, and a minimum safety factor of 2:1. B. Ductile Iron Pipe and Fittings: 1. Pipe: Designed in accordance with AWWA C150, minimum Thickness Class 52, with polyethylene encasement when buried; manufactured in accordance with AWWA C151; furnish in minimum nominal 18 foot laying lengths. 2. Fittings: AWWA C110 or C153, with C153 fittings to be polyethylene encased when buried. 3. Exterior Coating: Asphaltic material. Fittings may be coated with a fusion-bonded epoxy coating in accordance with AWWA C116. 4. Interior Lining: AWWA C104 cement mortar with seal coat, or AWWA C116 fusion-bonded epoxy coating. 5. Joints: AWWA C111, rubber gasket, push-on or mechanical type, with restrained type joints and river crossing pipe joints to be provided within the lengths noted on Drawings.	2.3 GATE VALVES A. Manufacturers: American Flow Control; Clow; Kennedy; Mueller; or as approved. B. AWWA C509 cast iron, bronze-mounted, or AWWA C515 ductile iron, bronze-mounted, polyethylene encased when buried installation; designed for 200 psi working water pressure; mechanical joint ends, AWWA C111, except for tapping valves; non-rising stem type with standard AWWA nut; stem seal consisting of at least two Buna-N rubber O-rings; open by turning left (counterclockwise); bolts, nuts, and washers used by manufacturer to assemble valves to be Type 304 stainless steel. C. If required, provide operator with an extension stem such that operating nut is located no more than 4 feet below grade. Center extension stem in the valve box by approved stem guides.
	2.4 VALVE BOXES A. Coated cast iron, three-piece screw type, 5-1/4 inch shaft; heavy, neat fitting cover with the word "WATER" cast on the top. B. Base shall cover the entire valve bonnet section.

L:\Engineering Division\Engineering Guests\Standard Specifications\11x17 Standard Water Main Specifications_01-05-15.docx

Page 2 of 7

DECEMBER 2015

PAVEMENT AND WATER MAIN SPECIFICATIONS

- E. Set hydrant and auxiliary valve on native hardwood blocking; provide stone fill up to drainage port
- F. If necessary, as determined by City, to set a fire hydrant at a greater depth of bury as a result of changing hydrant location from that shown, adjust elevation by furnishing and installing the fire hydrant manufacturer's standard barrel and stem extensions.
- G. Install polyethylene encasement for all buried auxiliary valves and fire hydrant assemblies as specified for water main pipe and fittings.
- H. Install polyethylene encasement for all buried gate and butterfly valves even if not provided for adjacent piping. Comply with AWWA C105 Method A and manufacturer's instructions. Completely tape all overlaps and seams. Repair all rips, punctures, and other damage to the polyethylene.
- I. Paint fire hydrant exterior above ground level with two coats City's standard paint; hydrant shall be painted yellow with bonnet painted white.
- 3.5 INSTALLATION - BACTERIA SAMPLING AND FLUSHING ASSEMBLIES; BLOW-OFF ASSEMBLIES
- A. Install assemblies as shown or noted; comply with component manufacturer's instructions.
- B. Valve shall be located to allow individual taking sample to turn valve on-off while holding sampling jar.
- C. Remove bacteria sampling and flushing assemblies after notice from City that mains have passed all tests and have been placed in service.
- 3.6 CONNECTION TO EXISTING MAINS
- A. Connect new mains to existing mains using proper fittings and in a manner acceptable to the City.
- B. Expose existing mains at connection points 10 days prior to making connections to determine elevation, verify type of pipe, confirm outside diameter of pipe, and identify type of restraints existing.
- C. No cut-ins or connections to existing mains shall be made unless at least 48 hours notice is given to the City.
- D. Plan all connecting work to reduce number of shutoffs.
- E. Two days prior to shutting valves on existing lines, notify all affected property owners and the City of such shutoff.
- F. Keep shutoff time to a minimum and do at off-peak hours.
- G. A representative of the City will operate existing valves. Contractor shall not operate existing valves.
- H. The City assumes no responsibility for any delay occasioned by special requirements or conditions which must be met in making connections.
- I. Take extreme care in making connections to prevent contamination
- J. Before making connections to existing mains, wash all fittings, valves, and pipe with clean water, and then disinfect by washing with a chlorine solution having a residual chlorine strength of not less than 50 ppm.
- K. Plugs removed from existing mains that are not damaged may be reused within the Project, and those remaining after completion of construction shall remain the property of the City.
- L. Connections to AC pipe shall be made with appropriate fittings specifically designed for AC pipe connections, and shall be acceptable to the City. All connections to AC pipe shall be via pad adapters. AC pipe must not be cut with a saw. All cuts shall be accomplished by snap cut.
- 3.7 LOCAL ROADS (UNLESS OTHERWISE APPROVED OR DIRECTED)
- A. Prepare subgrade in accordance with ODOT Item 203. Where it is necessary to construct pavement subgrade in fill, remove the existing topsoil beneath the proposed subgrade.
- B. Asphalt Concrete Pavement:
- 1-1/2 inches ODOT Item 448, Type 1 (medium traffic) Surface Course, PG 64-22.
 - 2 inches ODOT Item 448, Type 2 (medium traffic) Intermediate Course, PG 64-22.
 - 10 inches ODOT Item 304, Aggregate Base (placed in 2 lifts)
 - On aggregate base, apply ODOT Item 408 Prime Coat at rate of 0.35 gallons per square yard. Installation to be directed by the City.
 - ODOT Item 407; apply tack coat at the rate of 0.04 gallons per square yard to be placed between intermediate and surface courses and joints.
 - Sealer for Contact and Mating Surfaces and Joints: Comply with ODOT Items 401.14 and 401.17.
 - Pavement Sealer. When requested by and as approved by the City.
- C. Concrete Driveways and Parking Areas: ODOT Item 452.

L:\Engineering Division\Engineering Guests\Standard Specifications\11x17 Standard Water Main Specifications_01-05-15.docx

Page 5 of 7

DECEMBER 2015

PAVEMENT AND WATER MAIN SPECIFICATIONS

- 3.11 PRESSURE AND LEAKAGE TEST
- A. Subject all mains to a pressure and leakage test before connecting to existing mains and before making connections between water mains of differing pipe materials.
- B. Test each valve-to-valve section separately. If Contractor elects to test more than one valve-to-valve section, the allowable leakage for the test will be based upon the shortest valve to valve section in the test
- C. For Mains of PVC Pipe Material: Perform in accordance with AWWA C605 and the following:
1. Isolate main from adjacent existing main and new main of differing pipe materials, and apply pressure by pumping clean water from a sterilized container into the main via 1 inch corporation stops.
 2. Test pressure shall be 150 psi, unless valves in existing mains are involved within section of new main being tested, in which case test pressure may be 100 psi if the City determines that the older existing valves may not seal properly; and shall not vary by more than +5 psi.
 3. Start pressure test in an afternoon and keep pressure on for 18 hours, and then maintain test pressure for an additional 2 hours by pumping water from the container into the main.
 4. At the end of the 2 hour period, measure the water used.
 5. Loss by leakage shall not exceed that as determined by the following formula:
- $$L = \frac{ND\sqrt{P}}{7,400}$$
- L = allowable leakage (gal/hr)
N = #joints in pipe tested
D = nominal dia. of pipe
P = avg test pressure
6. When testing against closed metal-seated valves, allow an additional leakage per closed valve of 0.0078 gallons/hour/inch of nominal valve size
7. When hydrants are in test section, perform test with closed hydrant valves.
8. Pressure test at each side of intermediate valves at this time by shutting each valve, exhausting the pressure on one side, and applying the test pressure of 150 psi or more to the main on the opposite side of the valve for approximately 10 minutes as determined by the City. Repeat this procedure for each intermediate valve.
- D. If main and valves do not pass the leakage test, locate and repair the leak or leaks and repeat testing procedure until successful. Repair visible leaks regardless of the amount of leakage.
- E. Pressure and leakage testing is responsibility of Contractor, who shall provide all materials, labor, and equipment, and pay for the total volume of water used.
- F. For Fire Lines (Water Mains) of Ductile Iron Pipe Material: The City will oversee testing. Perform in accordance with AWWA C600 and the following:
1. Isolate mains lines from adjacent existing main and new main of differing pipe materials, and apply pressure by pumping clean water from a sterilized container into the main via 1 inch corporation stops.
 2. Test pressure shall be 200 psi, unless valves in existing mains are involved within section of new main being tested, in which case test pressure may be 100 psi if OWNER determines that the older existing valves may not seal properly; and shall not vary by more than +5 psi.
 3. Start pressure test in an afternoon and keep pressure on for 18 hours, and then maintain test pressure for an additional 2 hours by pumping water from the container into the main.
 4. At the end of the 2 hour period, measure the water used.
 5. Loss by leakage shall not exceed that as determined by the following formula:
- $$L = \frac{SD\sqrt{P}}{148,000}$$
- L = allowable leakage (gal/hr)
S = length of pipe tested
D = nominal dia. of pipe
P = avg test pressure
6. When testing against closed metal-seated valves, allow an additional leakage per closed valve of 0.0078 gallons/hour/inch of nominal valve size
7. When hydrants are in test section, perform test with closed hydrant valves.
8. Pressure test at each side of intermediate valves at this time by shutting each valve, exhausting the pressure on one side, and applying the test pressure of 150 psi or more to the main on the opposite side of the valve for approximately 10 minutes as determined by ENGINEER. Repeat this procedure for each intermediate valve.

L:\Engineering Division\Engineering Guests\Standard Specifications\11x17 Standard Water Main Specifications_01-05-15.docx

Page 6 of 7

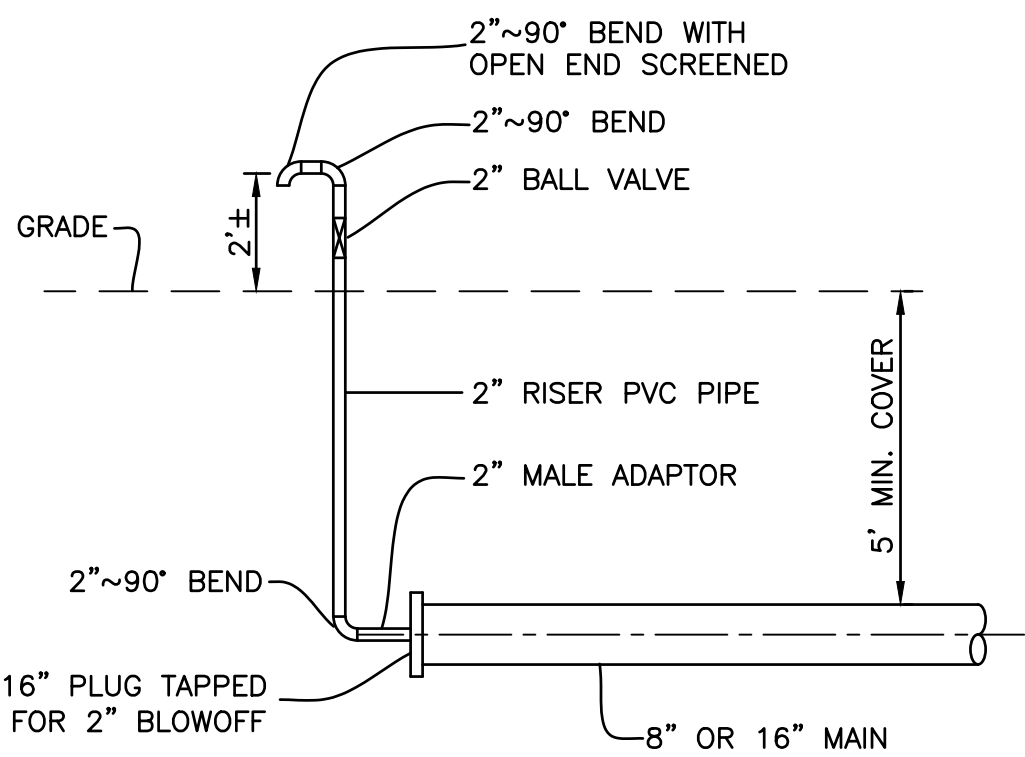
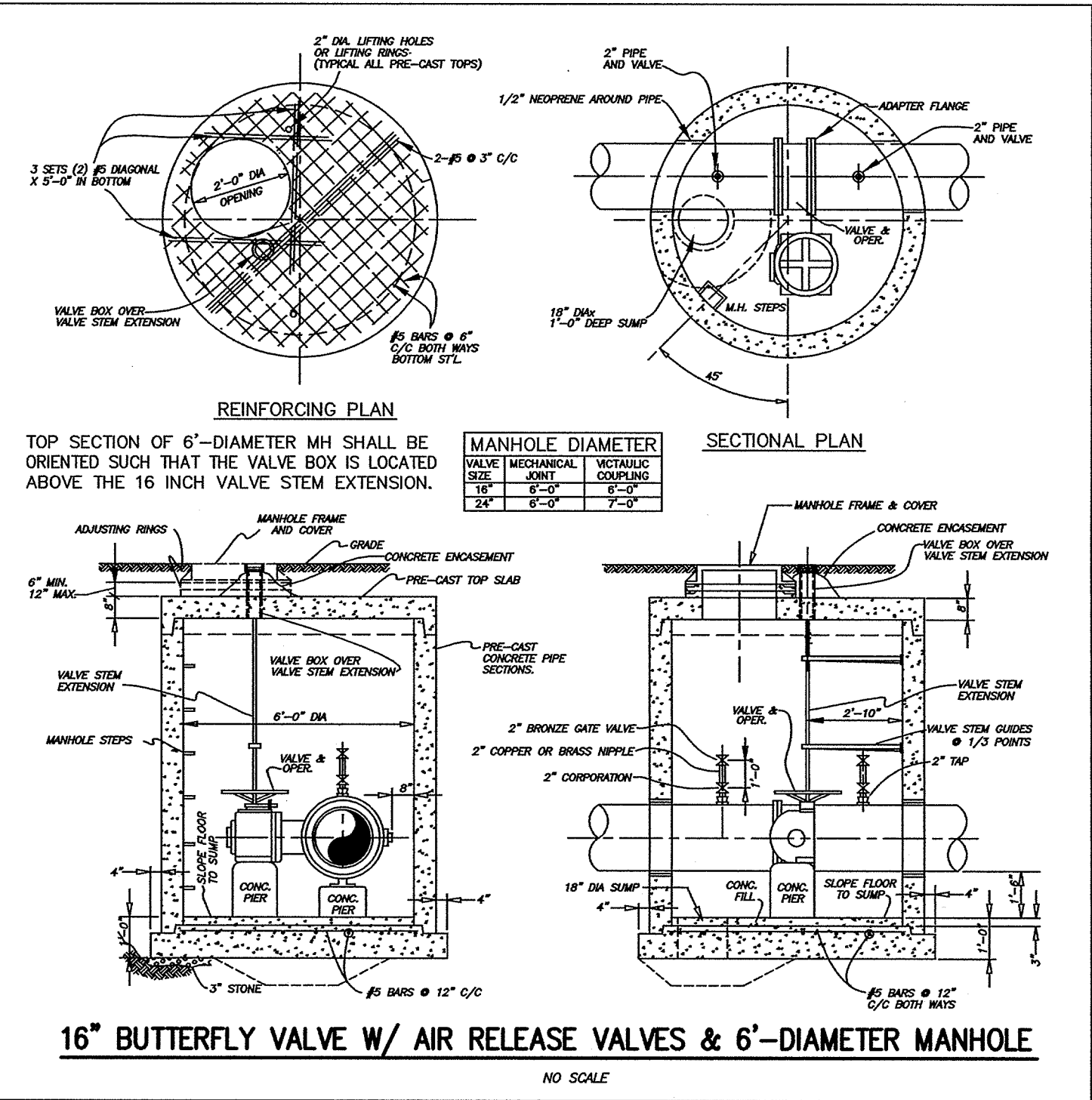
DECEMBER 2015

PIPE DIAMETER (INCHES)	CALCIUM HYPOCHLORITE GRANULES (OUNCES)
4	1.7
6	3.8
8	6.7
10	10.5
12	15.1
14 and Larger	D ² *15.1

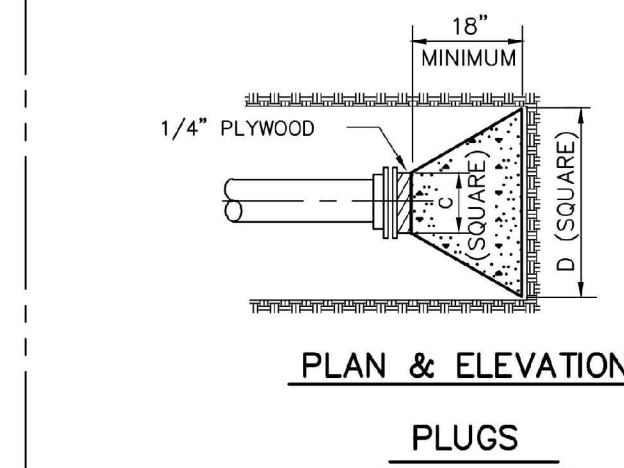
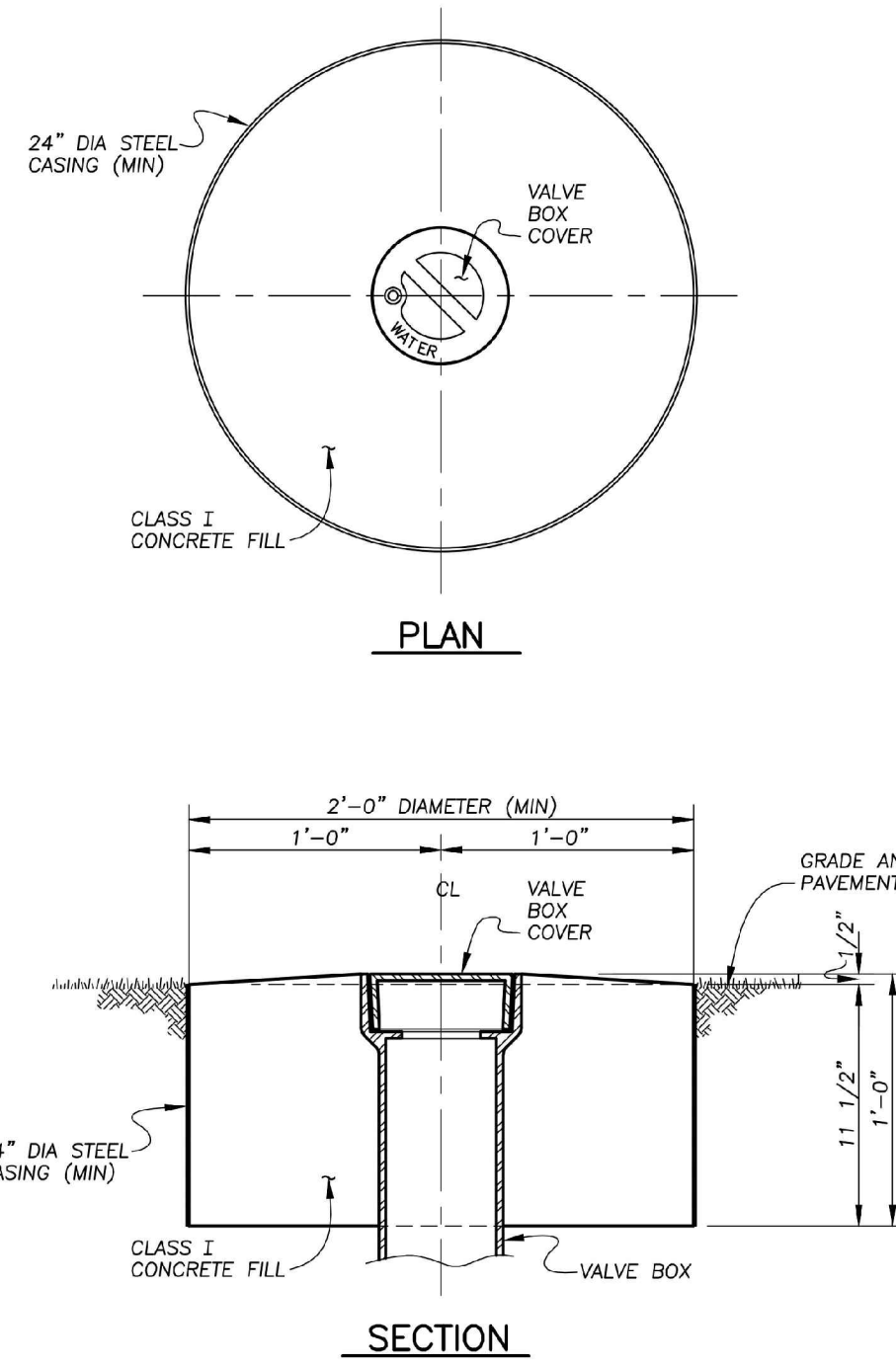
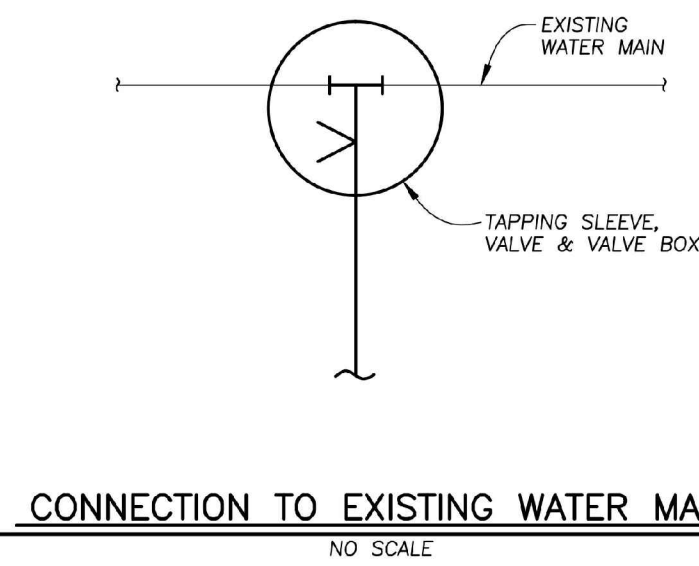
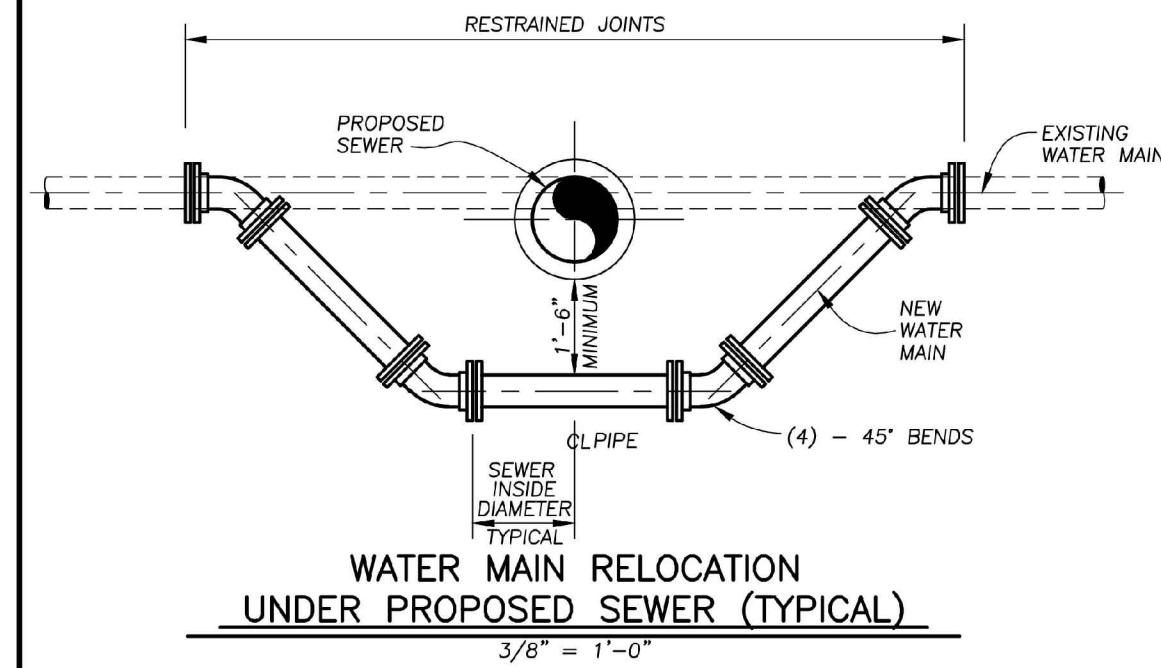
Where D is the inside pipe dia. In feet -- D=1/2

PAVEMENT AND WATER MAIN SPECIFICATIONS

3. Place tablets in each pipe section, with number of tablets determined by the formula 0.0012dL, rounded to the next highest integer, where "d" is the nominal inside diameter of pipe in inches, and "L" is the length of pipe section in feet, and place 1 tablet in each hydrant, hydrant branch, and other appurtenance. Attach tablets using a USDA approved food grade adhesive on only the side attached and at the inside top of the pipe upon pipe installation, and with approximately equal number of tablets at each end of a given pipe length.
4. Fill main with potable water such that water within the main will flow at a velocity no greater than 1 fps.
5. Take precautions as necessary to ensure air pockets are eliminated.
6. Keep water in pipe at least 24 hours, except if water temperature is less than 41 degrees F, then keep water in pipe at least 48 hours. A detectable chlorine residual should be found at each sampling point after the 24 hour period.
- E. Continuous Feed Method:
1. Exhaust all air in main and flush main as thorough as possible with water pressure and outlets available. If no hydrant is installed at end of main, provide a tap large enough to develop a minimum 2.5 fps velocity in main. Disinfection can be accomplished by injecting a 1 percent chlorine solution into the main at a point not more than 10 feet downstream from beginning of new main. Pump potable water for the injector for delivering the 1 percent chlorine solution from a clean and sterile container. Control flow of water from the existing distribution system or other approved potable water source so as to flow slowly into new main during chlorine application, with rate of chlorine application in such proportion to the rate of water entering the main that the solution of clean water and chlorine in the main will have 25 mg/l minimum free chlorine.
 2. Keep the solution in the main for 24 hours, during which time all valves and hydrants in the treated section shall be operated to ensure disinfection of appurtenances.
 3. At the end of the 24 hour period, the treated water in all portions of the main shall have a residual of not less than 10 mg/l free chlorine.
- F. Slug Method:
1. Place calcium hypochlorite granules in main during construction.
 2. Fill the main slowly and completely and exhaust all air.
 3. Flush to remove particulates.
 4. Flow a slug of water with 100 mg/l chlorine concentration slowly through main so the main and its appurtenances will be exposed to the highly chlorinated water for minimum 3 hours. If at any time the free chlorine residual in the slug drops below 50 mg/l, stop the flow, relocate the chlorination equipment at the head of the slug, and as flow is resumed, apply chlorine to restore the free chlorine in the slug to minimum 100 mg/l.
5. Operate valves and hydrants as the chlorinated water flows past to disinfect appurtenances and pipe branches.
- G. Bacteriological Tests:
1. At least two samples taken at 24 hour intervals shall show the water to be safe.
 2. At least one set of samples shall be collected from every 1200 feet of new water main, plus one set from the end of the main and at least one set from each branch.
 3. Before taking a sample, allow the water to flow from the sampling point for at least 1 minute. Use bleach solution, or approved, as specified by AWWA to kill all bacteria. Nothing should be allowed to touch the lip or top of the sample bottle while the sample is being taken. No hose or fire hydrant shall be used in the collection of samples.
 4. If bacteriological tests show the water to be safe, the main may be placed in service in accordance with Article 3.6.
 5. If bacteriological tests show the water to be unsafe, the main shall be completely disinfected again by Contractor, at no additional cost to the City.
- 3.13 COMPLETION OF TESTS
- A. When all tests on the water main have been successfully completed, main will be placed in service by the City
- B. No further Work on the main, valves, hydrants, and appurtenances will be permitted without full knowledge of the Work by the City.



BLOWOFF DETAIL
N.T.S.



TYPE	SIZE	PLUGS	
		C	D
2000 PSF SOIL	6\"	10"	24"
	8"	12"	32"
	10"	14"	40"
	12"	16"	47"
	14"	18"	54"
	16"	20"	61"
	20"	24"	74"
	24"	28"	88"

NOTE:
BASED ON 150 PSI STATIC PRESSURE.
ALL BEARING SURFACES TO BE CARRIED TO UNDISTURBED GROUND.

THRUST BLOCKING DETAIL
NO SCALE

DEAD END	LENGTHS OF RESTRAINED PIPE
8"	60'
12"	100'
16"	120'

FITTINGS	LENGTHS OF RESTRAINED PIPE FOR LARGER PIPE
REDUCER	
8" X 4"	60'
8" X 6"	40'
12" X 6"	80'
12" X 8"	60'

FITTINGS	LENGTHS OF RESTRAINED PIPE FOR TEE BRANCH
TEE	
8" X 6"	60'
8" X 8"	60'
12" X 6"	60'
12" X 8"	60'
12" X 12"	100'
16" X 8"	60'
16" X 12"	100'
16" X 16"	120'

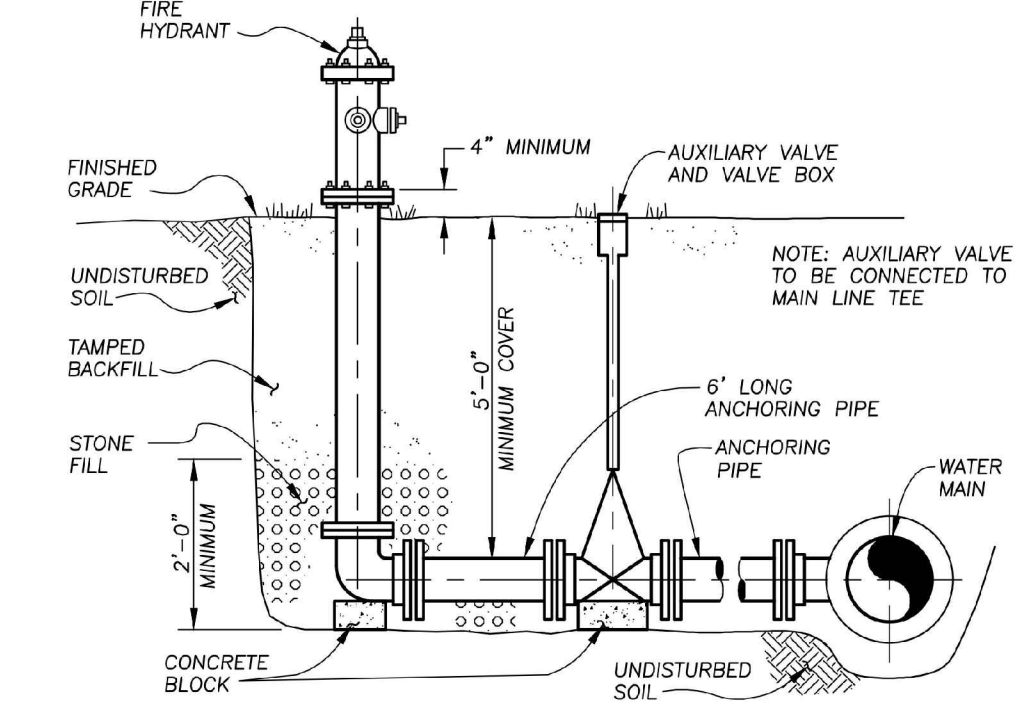
FITTINGS	LENGTHS OF RESTRAINED PIPE EACH SIDE OF BEND
HORIZONTAL BEND	
8" 11 1/4"	20'
8" 22 1/2"	20'
8" 45"	40'
8" 90"	80'
12" 11 1/4"	20'
12" 22 1/2"	20'
12" 45"	60'
12" 90"	120'
16" 11 1/4"	20'
16" 22 1/2"	40'
16" 45"	60'
16" 90"	140'

FITTINGS	LENGTHS OF RESTRAINED PIPE EACH SIDE OF BEND
VERTICAL BEND (UP)	
8" 11 1/4"	20'
8" 22 1/2"	20'
8" 45"	40'
8" 90"	80'
12" 11 1/4"	20'
12" 22 1/2"	20'
12" 45"	60'
12" 90"	120'
16" 11 1/4"	20'
16" 22 1/2"	40'
16" 45"	60'
16" 90"	140'

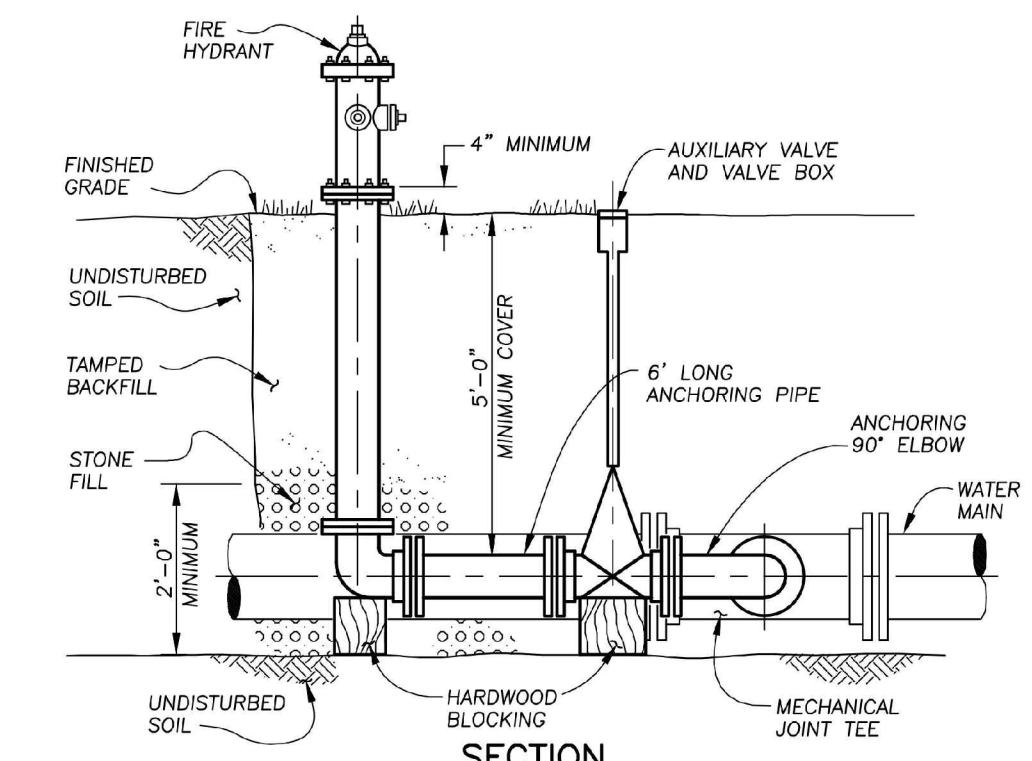
FITTINGS	LENGTHS OF RESTRAINED PIPE EACH SIDE OF BEND
VERTICAL BEND (DOWN)	
8" 11 1/4"	20'
8" 22 1/2"	40'
8" 45"	60'
8" 90"	120'
12" 11 1/4"	20'
12" 22 1/2"	40'
12" 45"	80'
12" 90"	180'
16" 11 1/4"	40'
16" 22 1/2"	60'
16" 45"	100'
16" 90"	240'

RESTRAIN ALL JOINTS WITHIN THE INDICATED DISTANCES FOR THE FITTINGS DESCRIBED.

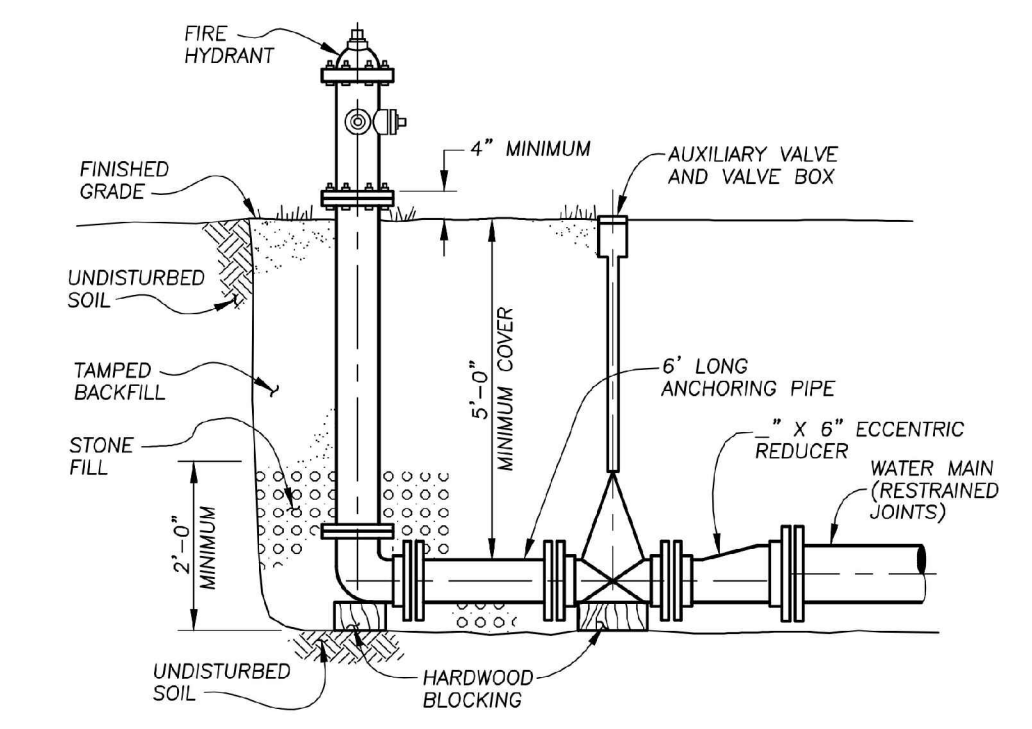
RESTRAINED JOINTS TABLE
BASED ON 150 PSI STATIC PRESSURE



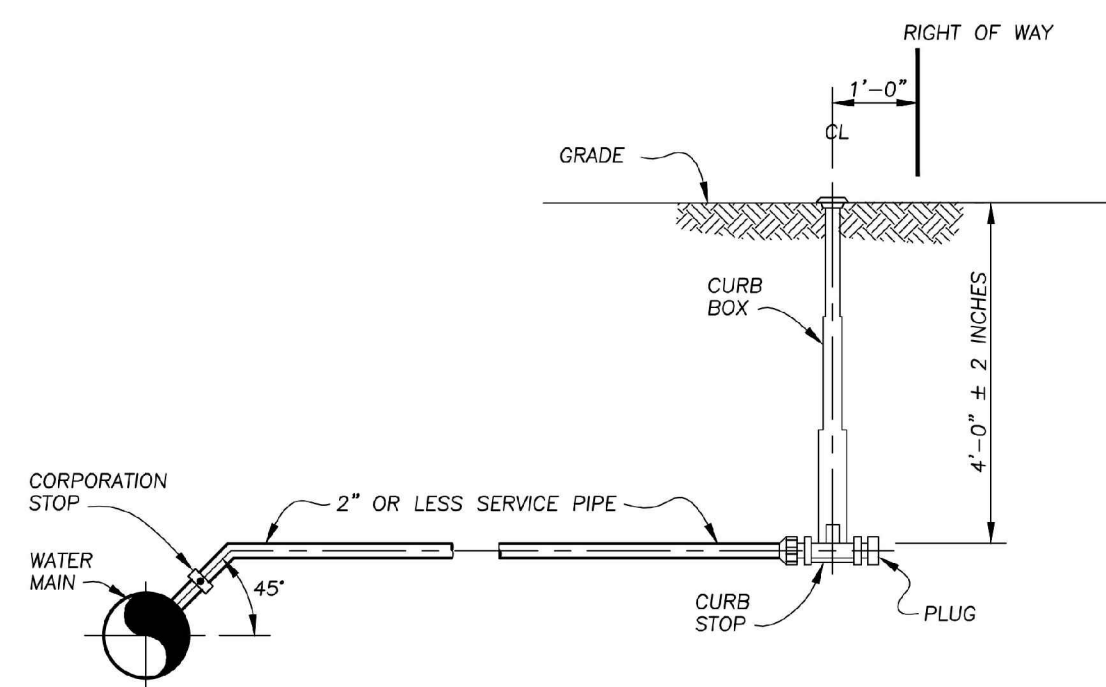
SECTION
HYDRANT PERPENDICULAR TO WATER MAIN DETAIL
1/2" = 1'-0"



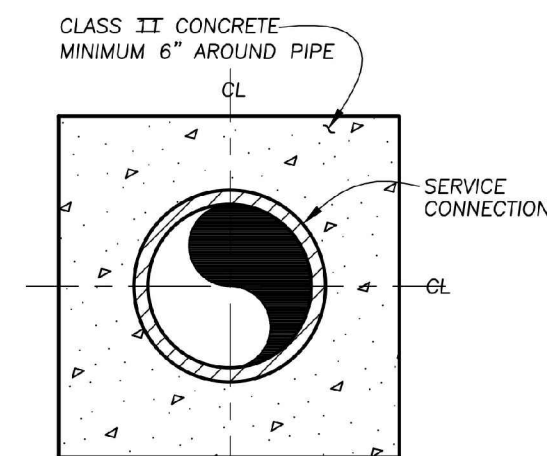
SECTION
HYDRANT PARALLEL TO WATER MAIN DETAIL
1/2" = 1'-0"



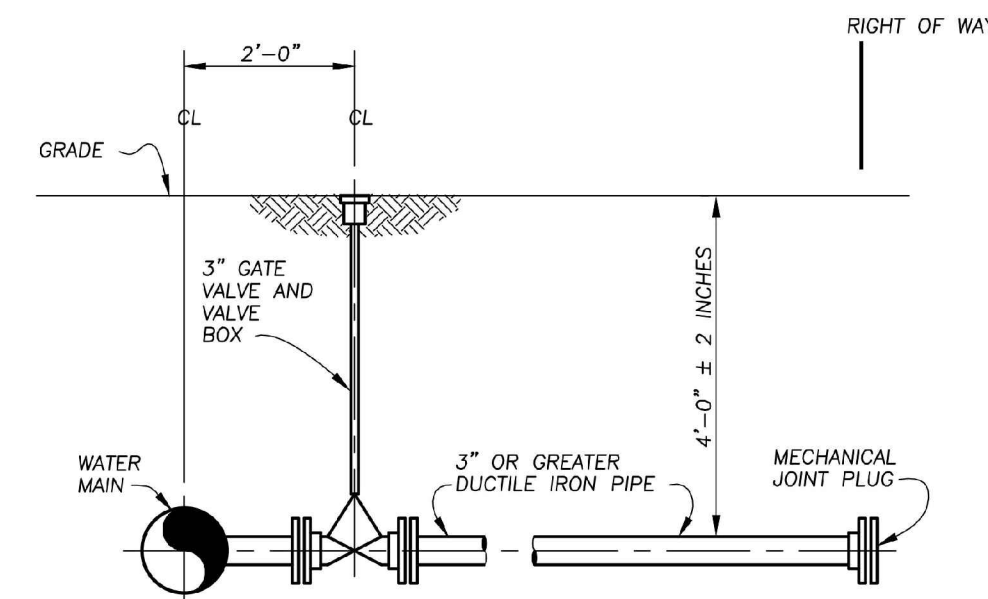
SECTION
HYDRANT AT END OF WATER MAIN DETAIL
1/2" = 1'-0"



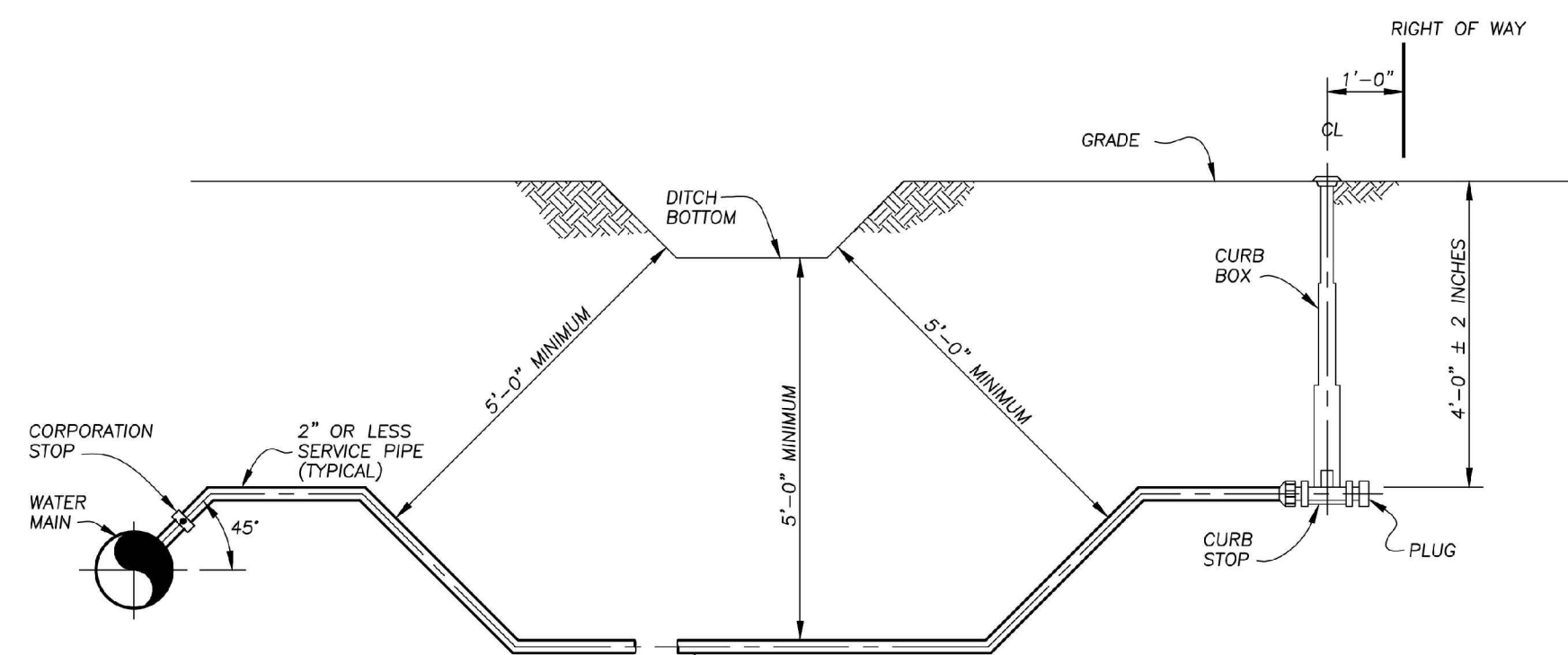
SECTION
TYPICAL 2" OR LESS SERVICE CONNECTION
1/2" = 1'-0"



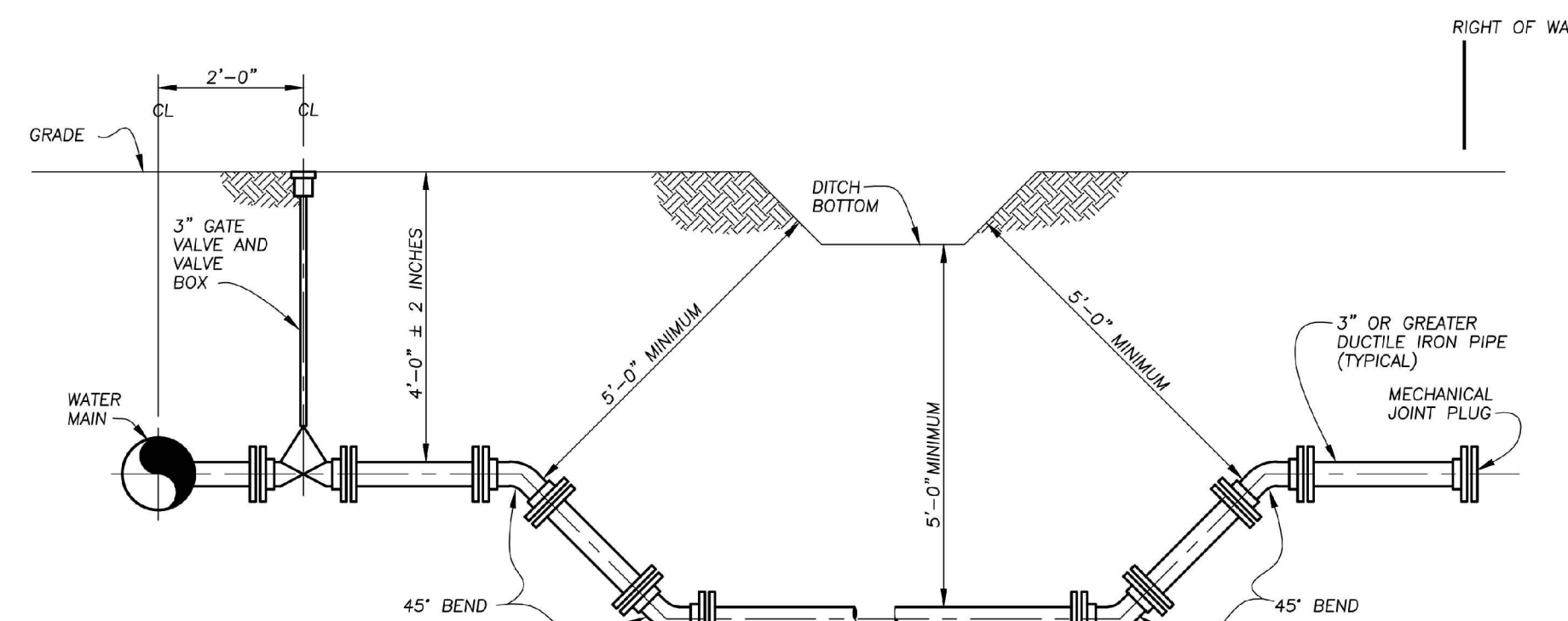
SECTION
CONCRETE PIPE ENCASEMENT
NO SCALE



SECTION
TYPICAL 3" OR GREATER SERVICE CONNECTION
1/2" = 1'-0"

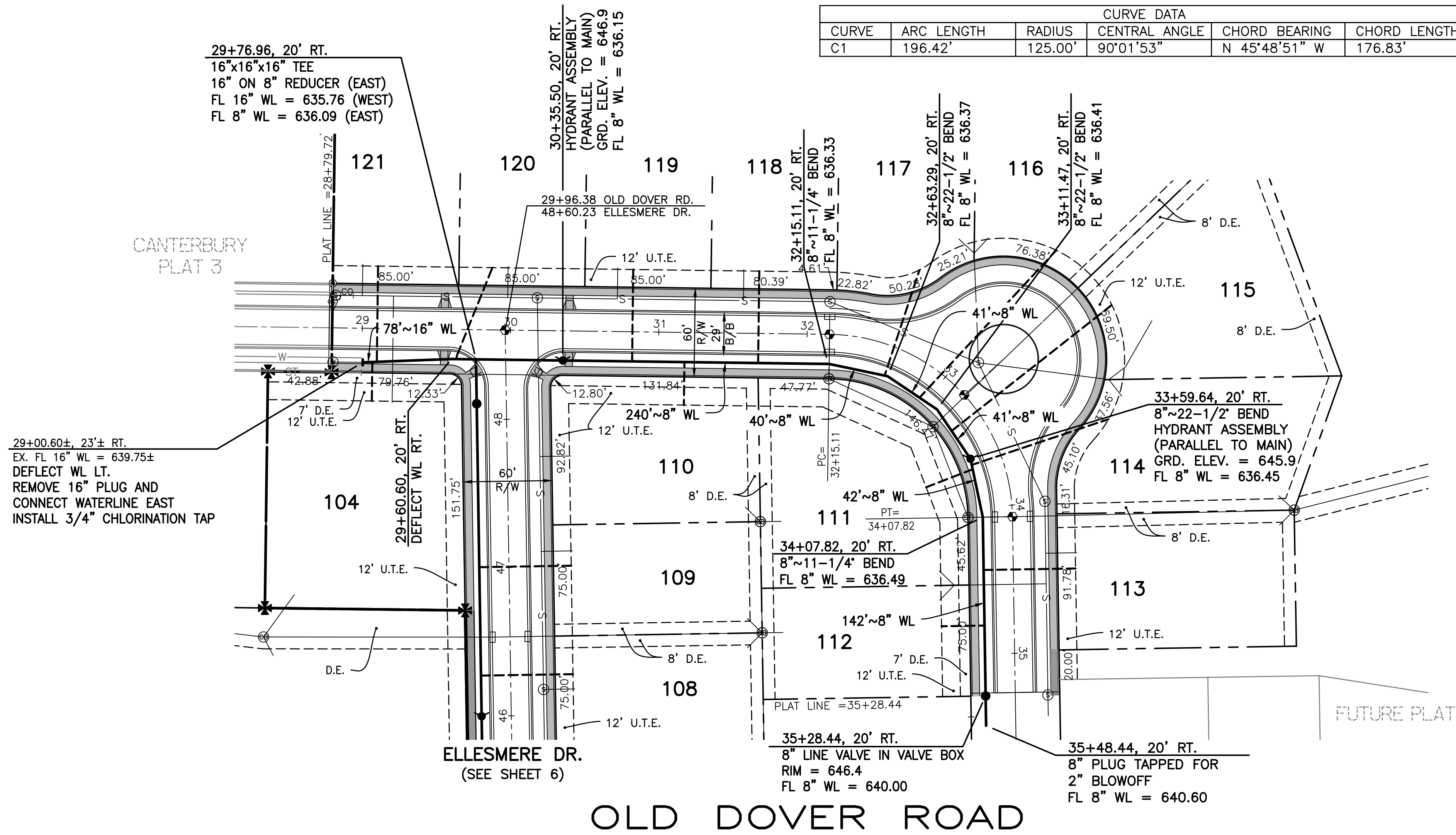


SECTION
TYPICAL 2" OR LESS SERVICE CONNECTION BELOW DITCH
1/2" = 1'-0"



SECTION
TYPICAL 3" OR GREATER SERVICE CONNECTION BELOW DITCH
1/2" = 1'-0"

PAVEMENT AND WATER MAIN
STANDARD DETAILS
CITY OF PERRYSBURG, OHIO
DEPARTMENT OF PUBLIC SERVICE
DIVISION OF WATER



NORTH

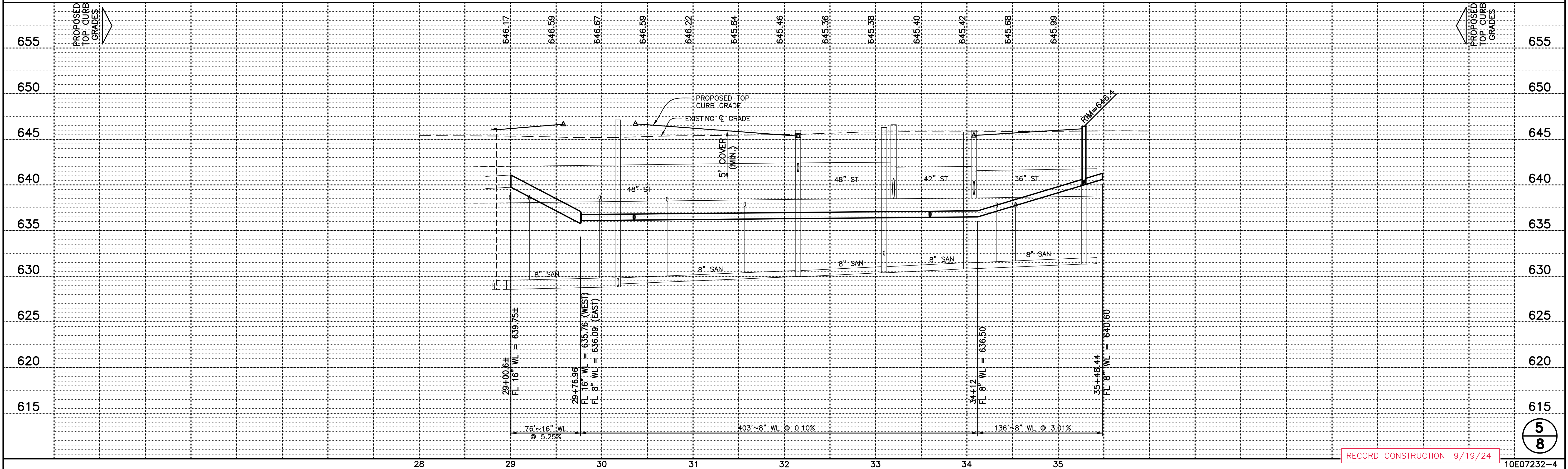
SCALE: 1"=50'

FELLER, FINCH & ASSOCIATES, INC.

REVISION	DATE	DESIGN BY: CMG
		DRAWN BY: RSP
		DATE: 2-6-23
		CHK'D BY: CMG
		DRAWING NO: 07232WP041-A0

EASEMENT ABBREVIATIONS

D.E.....DRAINAGE EASEMENT
U.T.E.....UTILITY & TOLEDO EDISON EASEMENT



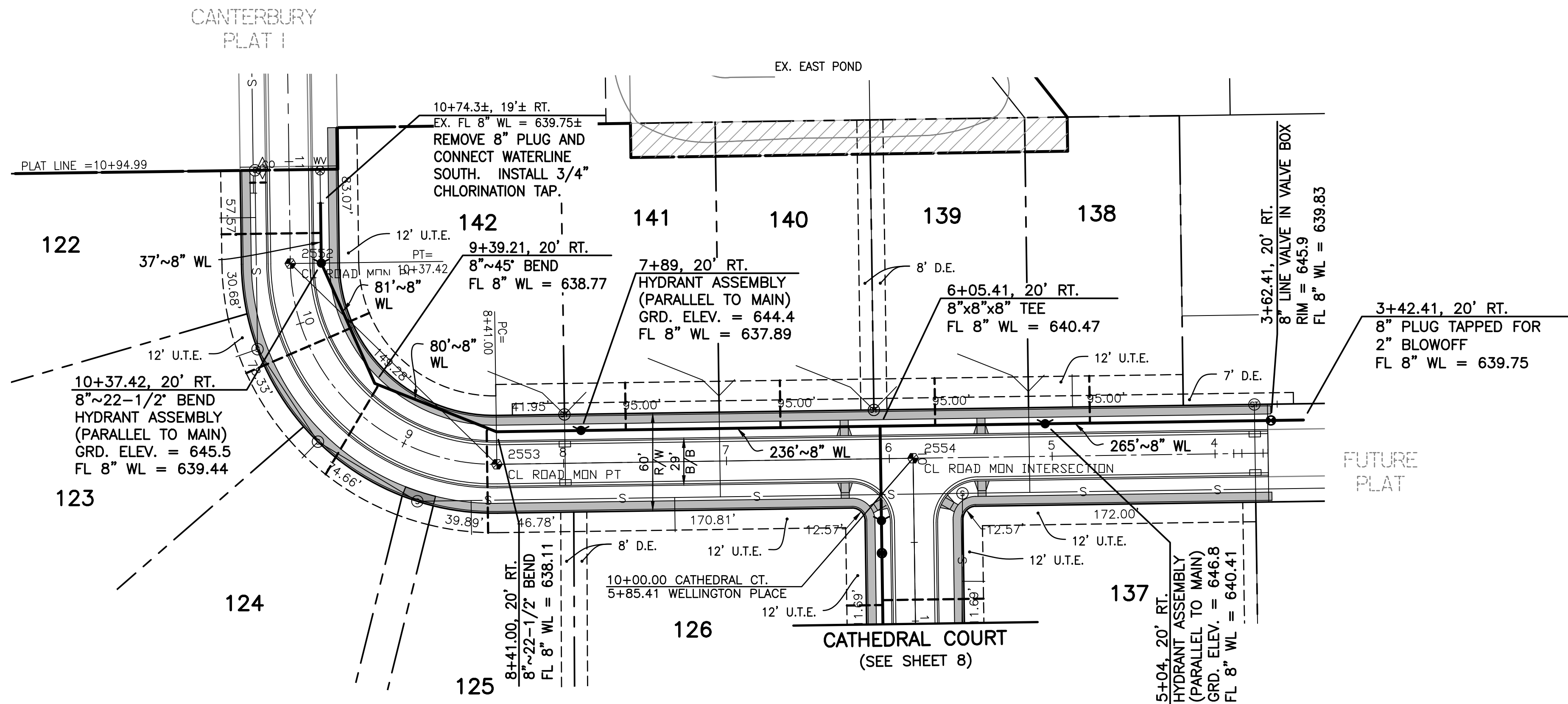
CURVE DATA					
CURVE	ARC LENGTH	RADIUS	CENTRAL ANGLE	CHORD BEARING	CHORD LENGTH
C1	196.42'	125.00'	90°01'53"	N 45°48'51" W	176.83'

NORTH

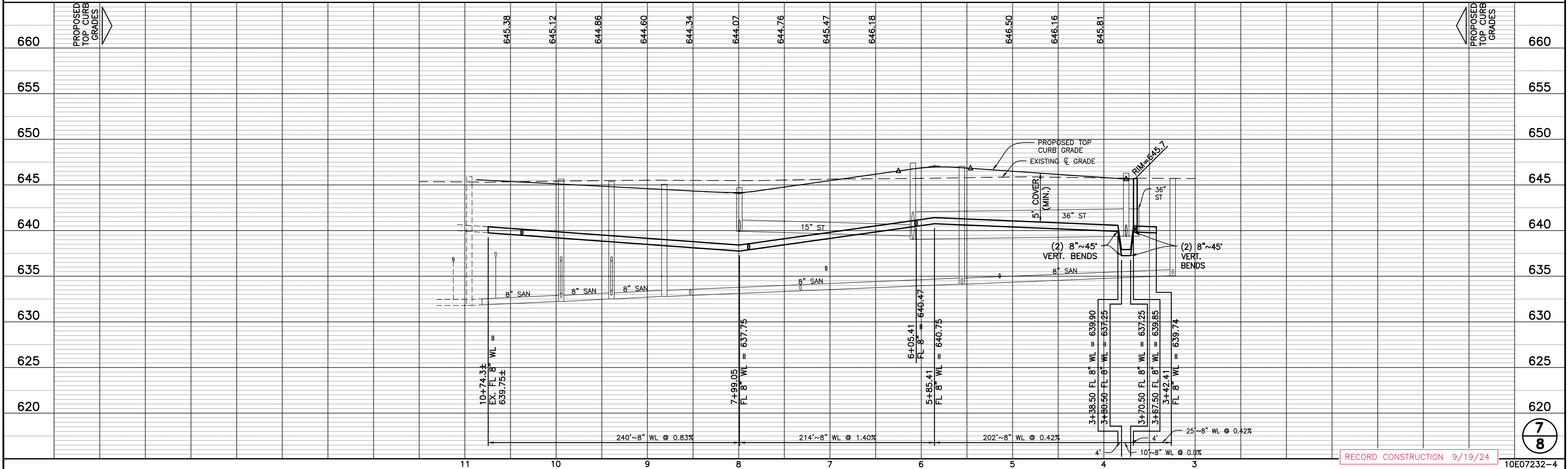
SCALE: 1"=50'

FELLER, FINCH & ASSOCIATES, INC.			
REVISION	DATE	DESIGN BY: CMG	
		DRAWN BY: RSP	
		DATE: 2-6-23	
		CHK'D BY: CMG	
		DRAWING: 07232WP04A1-A0	

EASEMENT ABBREVIATIONS	
D.E.....	DRAINAGE EASEMENT
U.T.E.....	UTILITY & TOLEDO EDISON EASEMENT



- WATERLINE NOTES:**
1. ALL VALVES SHALL BE EXTENDED SO THE OPERATING NUT IS NOT MORE THAN 4' BELOW FINISHED GRADE.
 2. KEEP ALL FRAMES, MANHOLE COVERS, VALVES AND APPURTENANCES OUT OF THE SIDEWALK.
 3. COORDINATE WITH THE DEPT. OF PUBLIC UTILITIES FOR PROCEDURES AND MATERIALS TO ABANDON THE 3/4" CHLORINATION TAP.



NORTH

SCALE: 1"=50'

FELLER, FINCH & ASSOCIATES, INC.

REVISION	DATE	DESIGN BY: CMG
		DRAWN BY: RSP
		DATE: 2-6-23
		CHK'D BY: CMG
		DRAWING: 07232WP04A1-A0

EASEMENT ABBREVIATIONS

D.E.....DRAINAGE EASEMENT

U.T.E.....UTILITY & TOLEDO EDISON EASEMENT

Plan view of Cathedral Court watermain. The drawing shows the layout of the watermain along Cathedral Court, which runs from Wellington Place (Sheet 7) to the end of the line. Key features include:

- Wellington Place (Sheet 7):** Shows the intersection with Cathedral Ct. and Wellington Place. A 9+80.20' RT. 8"x8"x8" TEE is shown with FL 8" WL = 640.47.
- Hydrant Assemblies:** Two hydrant assemblies are shown, both parallel to the main. The first is at station 10+38.20' RT. (FL 8" WL = 640.47) and the second is at station 12+54.92' RT. (FL 8" WL = 640.14).
- Valves:** An 8" line valve is shown in a valve box at station 10+57.98, 20' RT. (RIM = 647.0, FL 8" WL = 640.47).
- Easements:** Various easements are shown, including 8' D.E., 12' U.T.E., and 42'~8" WL.
- End of Line:** The line ends at station 15+06.54, 18.84' LT. (FL 8" WL = 639.50).

CATHEDRAL COURT

WATERLINE NOTES:

1. ALL VALVES SHALL BE EXTENDED SO THE OPERATING NUT IS NOT MORE THAN 4' BELOW FINISHED GRADE.
2. KEEP ALL FRAMES, MANHOLE COVERS, VALVES AND APPURTENANCES OUT OF THE SIDEWALK.
3. COORDINATE WITH THE DEPT. OF PUBLIC UTILITIES FOR PROCEDURES AND MATERIALS TO ABANDON THE 3/4" CHLORINATION TAP.

Profile view of Cathedral Court watermain. The drawing shows the vertical alignment of the watermain, including the proposed top curb grades and existing ground grades. Key features include:

- Elevations:** The vertical axis shows elevations from 620 to 660 feet.
- Grades:** The horizontal axis shows stationing from 9+80 to 15+06.54.
- Proposed Top Curb Grades:** Shown as a dashed line.
- Existing Ground Grades:** Shown as a solid line.
- Watermain Profile:** The 8" watermain is shown as a solid line with a minimum cover of 5'.
- Sanitary Sewer Profile:** The 8" sanitary sewer is shown as a dashed line.
- Grades:** The watermain has a grade of 0.00% from station 9+80 to 12+45, 0.34% from station 12+45 to 13+40, 2.32% from station 13+40 to 14+35, and 0.00% from station 14+35 to 15+06.54.

WATERMAIN CATHEDRAL COURT THE VILLAGES AT CANTERBURY PLAT 4



EASEMENT ABBREVIATIONS
D.E.....DRAINAGE EASEMENT
U.T.E.....UTILITY & TOLEDO EDISON EASEMENT

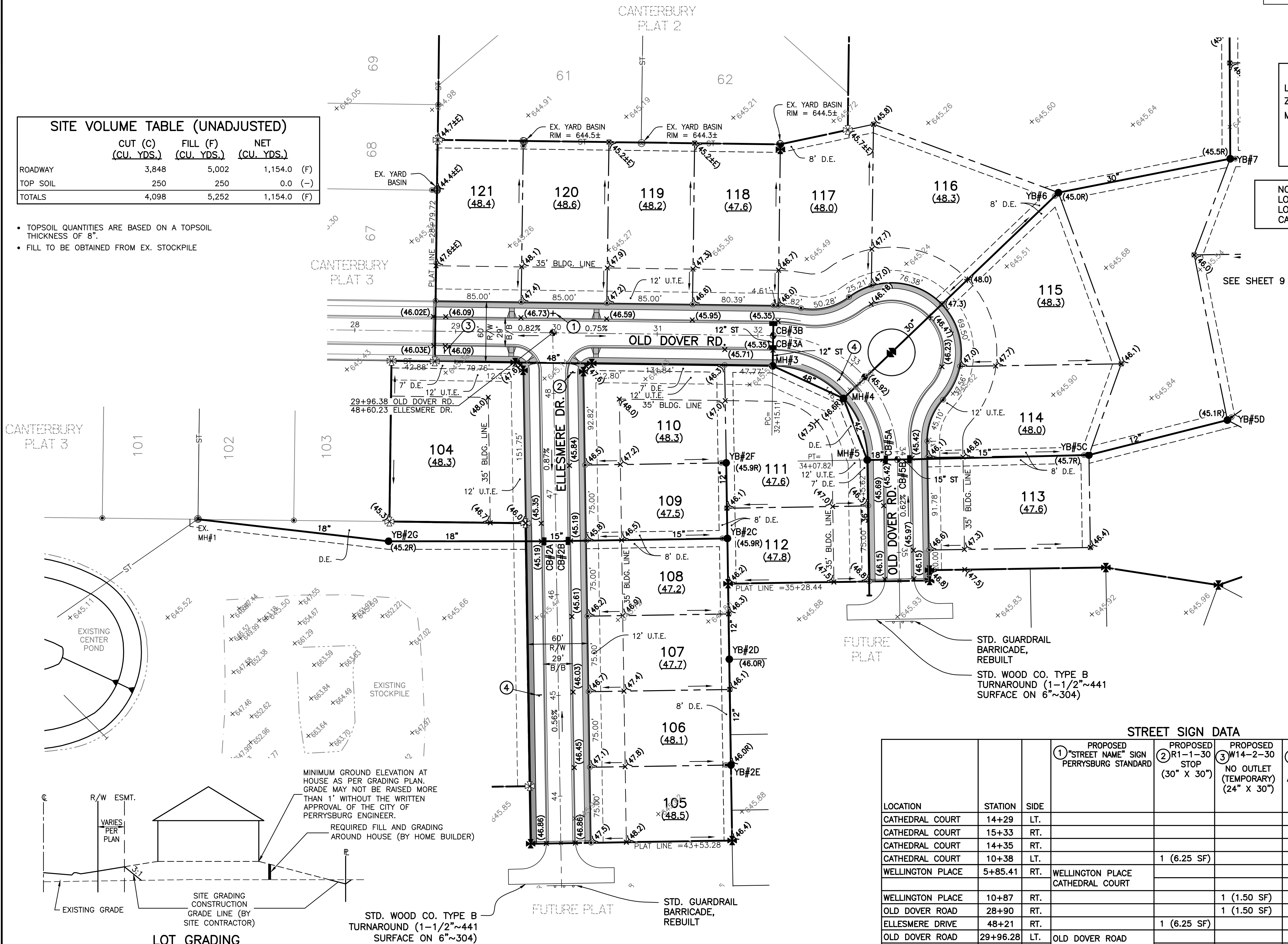
SITE ZONING DATA
LOCATION: CITY OF PERRYSBURG
ZONING CLASSIFICATION: R-4
MINIMUM SETBACKS:
FRONT - 35'
SIDE - 6' MIN.
SUM OF SIDES - 16'
REAR - 30'

BENCH MARK DATA
WOOD COUNTY BENCH MARK
WOOD CO. BENCH MARK BRASS DISC IN
NORTHWEST HEADWALL 300'± WEST OF HULL
PRAIRIE ROAD & ROACHTON ROAD
INTERSECTION.
ELEVATION 644.05
SITE BENCH MARK #204
SET MAG NAIL NORTH FACE OF P & T POLE AT
SOUTHEAST CORNER OF ROACHTON ROAD AND
HULL PRAIRIE ROAD.
ELEVATION 644.06
SITE BENCH MARK #208
SET MAG NAIL NORTH FACE OF 13TH P & T
POLE EAST OF HULL PRAIRIE ROAD ON SOUTH
SIDE OF ROACHTON ROAD.
ELEVATION 645.53

LEGEND
EXISTING GROUND ELEVATIONS.....+000.00
EXISTING CONTOURS.....+000
PROPOSED ELEVATIONS.....(00.0)
PROPOSED ELEVATIONS AT HOUSE.....(00.0)
PROPOSED RIM ELEVATION.....(00.0R)
PROPOSED = EXISTING.....(00.0E)
ADD 600.00 TO ALL PROPOSED SPOT ELEVATIONS.
ALL PAVEMENT GRADES ARE TOP OF CURB.
• = IRON PIPE (BY SURVEYOR)
⊕ = MONUMENT ASSEMBLY (ODOT RM-1.1) BY CONTRACTOR
⊗ = MONUMENT ASSEMBLY (WOOD CO. TYPE A) BY SURVEYOR
⊗ = EXISTING MONUMENT ASSEMBLY (WOOD CO. TYPE A)
■ = 5' CONCRETE WALK BY CONTRACTOR
■ = 5' CONCRETE WALK & RAMPS BY OTHERS
① STREET SIGN LOCATION. SEE THIS
SHEET FOR STREET SIGN DATA TABLE.

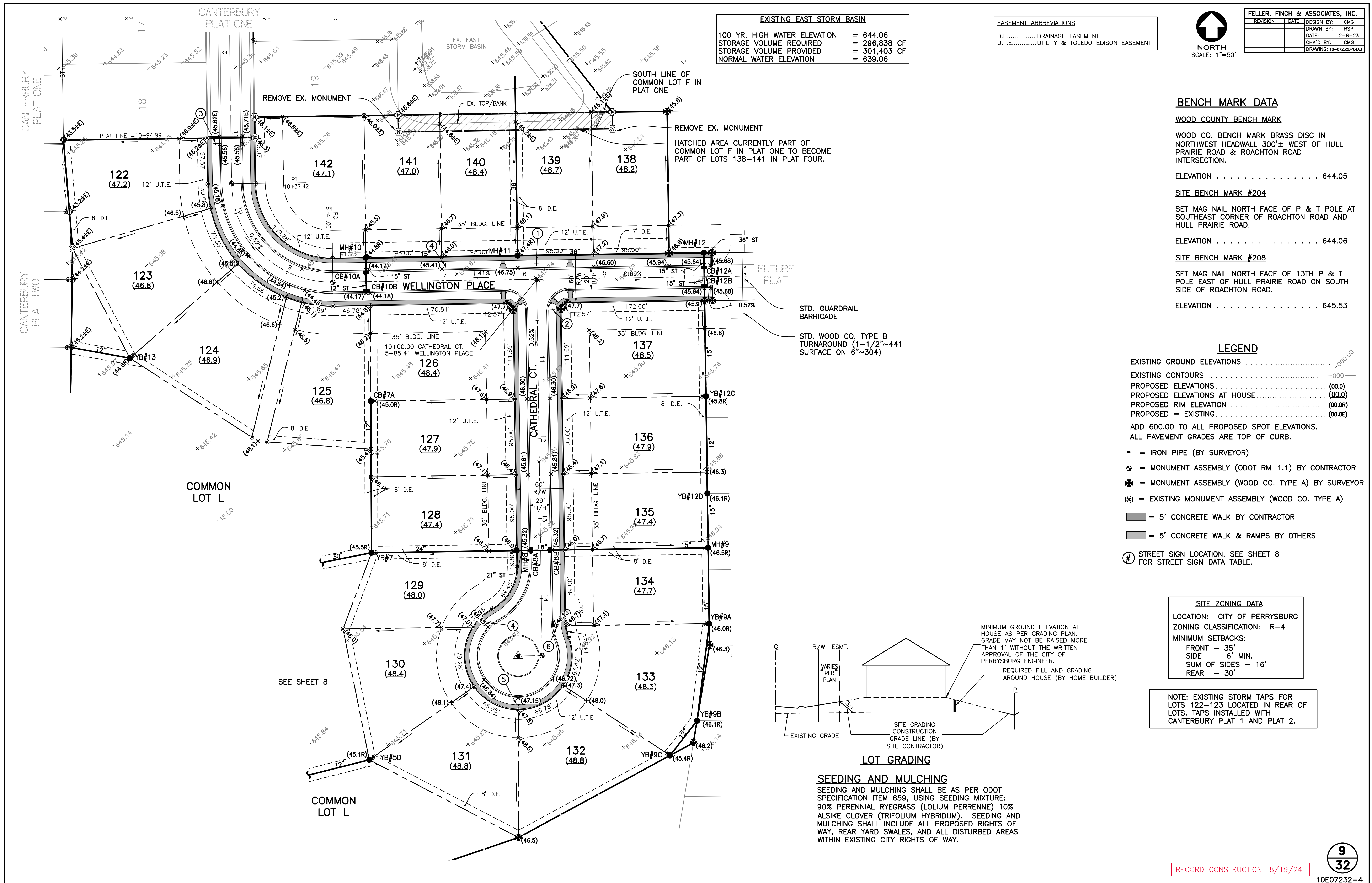
SITE VOLUME TABLE (UNADJUSTED)			
	CUT (C) (CU. YDS.)	FILL (F) (CU. YDS.)	NET (CU. YDS.)
ROADWAY	3,848	5,002	1,154.0 (F)
TOP SOIL	250	250	0.0 (-)
TOTALS	4,098	5,252	1,154.0 (F)

- TOPSOIL QUANTITIES ARE BASED ON A TOPSOIL THICKNESS OF 8".
- FILL TO BE OBTAINED FROM EX. STOCKPILE



STREET SIGN DATA								
			① PROPOSED "STREET NAME" SIGN PERRYSBURG STANDARD	② PROPOSED R1-1-30 STOP (30" X 30")	③ PROPOSED W14-2-30 NO OUTLET (TEMPORARY) (24" X 30")	④ PROPOSED R7-1 NO PARKING ANYTIME W/ 1 WAY ARROW (12" X 18")	⑤ PROPOSED R7-1 NO PARKING ANYTIME W/ 2 WAY ARROW (12" X 18")	⑥ PROPOSED R7-1 NO PARKING ANYTIME W/ 1 WAY ARROW (12" X 18")
LOCATION	STATION	SIDE						
CATHEDRAL COURT	14+29	LT.						1 (1.50 SF)
CATHEDRAL COURT	15+33	RT.					1 (1.50 SF)	
CATHEDRAL COURT	14+35	RT.				1 (1.50 SF)		
CATHEDRAL COURT	10+38	LT.		1 (6.25 SF)				
WELLINGTON PLACE	5+85.41	RT.	WELLINGTON PLACE CATHEDRAL COURT					
WELLINGTON PLACE	10+87	RT.			1 (1.50 SF)			
OLD DOVER ROAD	28+90	RT.			1 (1.50 SF)			
ELLESMERE DRIVE	48+21	RT.		1 (6.25 SF)				
OLD DOVER ROAD	29+96.28	LT.	OLD DOVER ROAD ELLESMERE DRIVE					
OLD DOVER ROAD	33+00	RT.				1 (1.50 SF)		
ELLESMERE DRIVE	45+00	LT.				1 (1.50 SF)		
WELLINGTON PLACE	7+00	RT.				1 (1.50 SF)		
TOTAL				2 (12.50 SF)	2 (3.0 SF)	4 (6.00 SF)	1 (1.50 SF)	1 (1.50 SF)

SEEDING AND MULCHING
SEEDING AND MULCHING SHALL BE AS PER ODOT
SPECIFICATION ITEM 659, USING SEEDING MIXTURE:
90% PERENNIAL RYEGRASS (LOLIUM PERRENNE) 10%
ALSIKE CLOVER (TRIFOLIUM HYBRIDUM). SEEDING AND
MULCHING SHALL INCLUDE ALL PROPOSED RIGHTS OF
WAY, REAR YARD SWALES, AND ALL DISTURBED AREAS
WITHIN EXISTING CITY RIGHTS OF WAY.



ORDINANCE 5-2025

ACCEPTING STREETS, ALLEYS, AND GREEN SPACE AND OTHER DEDICATED INFRASTRUCTURE PER CODIFIED ORDINANCE §1295.07 (COVENTRY POINTE PLAT 4); AND DECLARING AN EMERGENCY

WHEREAS, Codified Ordinance §1295.07 requires that dedication of certain improvements within subdivisions be accepted by ordinance; and

WHEREAS, the streets, alleys, green spaces, and other dedicated infrastructure and improvements in a subdivision, as summarized on Exhibit A, (Coventry Pointe Plat 4) have been completed to the satisfaction of the City of Perrysburg, Ohio, and such improvements have been offered for dedication and now should be accepted and dedicated; and

WHEREAS, the value of the property includes but is not limited to:

Sanitary	1944 linear feet	\$1,420,534.00
Water	1317 linear feet	\$146,006.00
Roadway	1175 linear feet	\$126,000.00
Storm	3482 linear feet	\$279,555.00

NOW THEREFORE, BE IT ORDAINED BY THE COUNCIL OF THE CITY OF PERRYSBURG, WOOD COUNTY, OHIO:

SECTION 1. In conformity with Codified Ordinance §1295.07 and all otherwise applicable law, the City of Perrysburg, Ohio, hereby accepts for dedication the streets, alleys, green spaces, and other dedicated infrastructure and improvements of the subdivisions listed on Exhibit A, (Coventry Pointe Plat 4) which is attached hereto and incorporated as if fully restated herein.

SECTION 2. It is found and determined that all formal actions of Council concerning or relating to the passage of this Ordinance were adopted in an open meeting of the Council, and that all deliberations of this Council and any of its committees, that resulted in such formal actions, were in meetings open to the public in compliance with all legal requirements of the City of Perrysburg and the State of Ohio.

SECTION 3. This Ordinance is hereby declared to be an emergency measure necessary for the immediate preservation of the public peace, health, and safety of the citizens of the City of Perrysburg, Wood County, Ohio, in order to avoid any confusion regarding rights, duties, and obligations with respect to the subject infrastructure, and

shall be in full force and effect from and immediately after its passage and approval by the Mayor.

President of Council

Mayor

PASSED: _____

ATTEST: _____

APPROVED: _____

Timothy W. Effler
LAW DIRECTOR

PAVEMENT AND DRAINAGE IMPROVEMENTS
FOR
Coventry Pointe Plat Four

CITY OF PERRYSBURG, WOOD COUNTY, OHIO

INDEX OF SHEETS

TITLE SHEET	1
GENERAL NOTES AND DETAILS	2-5
GENERAL NOTES AND SUMMARY	6
SITE GRADING PLAN AND STREET SIGN PLAN	7
TYPICAL SECTION AND INTERSECTION DETAILS	8
PLAN AND PROFILE	9-11
EX. BASIN DETAILS	12
CROSS-SECTIONS	13-17
EPSC	18-22

BENCH MARK DATA

WOOD COUNTY BENCH MARK

MC0668 USGS SURVEY DISC IN CONCRETE MONUMENT
SOUTHWEST CORNER OF THE INTERSECTION OF HULL
PRAIRIE ROAD & FIVE POINT ROAD.

ELEVATION 650.10'

SITE BENCH #201

MAG NAIL SET IN WEST FACE OF 2ND POWER POLE
SOUTH OF ROACHTON ROAD ON FORT MEIGS ROAD.

ELEVATION 651.45

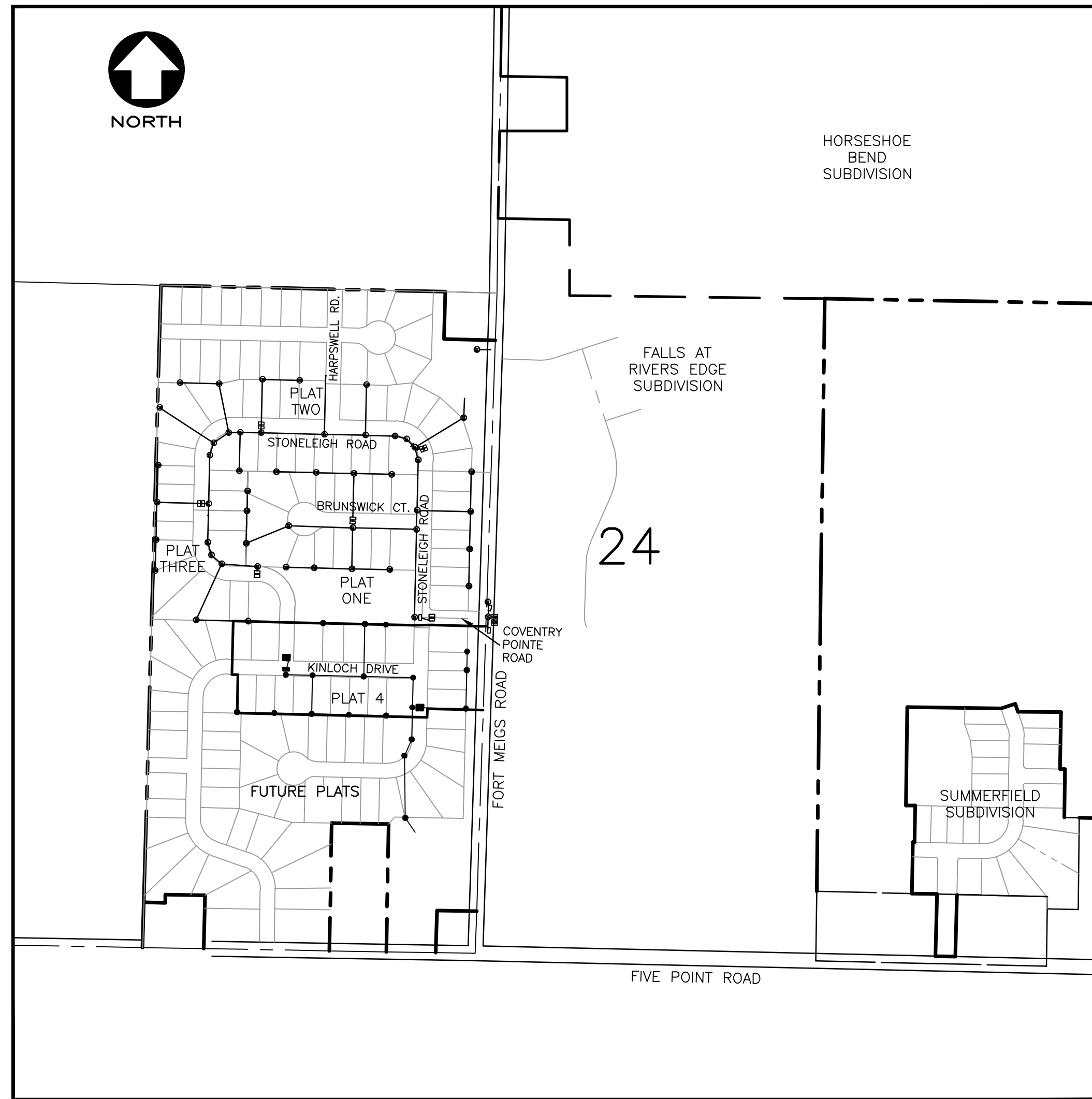
SITE BM #202

MAG NAIL SET IN WEST FACE OF 1ST POWER POLE
NORTH OF FIVE POINT ROAD ON FORT MEIGS ROAD.

ELEVATION 653.08

CONVENTIONAL SIGNS

	PROPOSED	EXISTING
SANITARY SEWER	—S—	—S—
STORM SEWER	—ST—	—ST—
WATERMAIN	—W—	—W—
SANITARY MANHOLE	●	⊙
STORM MANHOLE	●	⊙
CATCH BASIN	■	⊞
YARD BASIN	●	⊞
WATER VALVE IN MANHOLE	●	⊙
HYDRANT	●	⊙
CENTERLINE	—	—
ODOT RM-1.1 MONUMENT	⊕	⊕
WOOD COUNTY TYPE A MONUMENT ASSEMBLY	⊕	⊕



KEY MAP
SCALE: 1"=400'

STORM WATER FACILITIES WHICH ARE NOT LOCATED IN
EASEMENTS OR THE PUBLIC RIGHT-OF-WAY SHALL BE PRIVATELY
OWNED AND MAINTAINED. FAILURE TO MAINTAIN PRIVATELY OWNED
STORM WATER FACILITIES MAY RESULT IN ENFORCEMENT ACTION.

STANDARD DRAWINGS

ODOT

RM-1.1 ROADWAY MONUMENTS	1/20/23
BP-7.1 CURB RAMPS	1/20/23

WOOD COUNTY

TYPE A MONUMENT ASSEMBLY
STANDARD BARRICADE
MOUNTABLE CURB & GUTTER, TYPE F
STANDARD HEADWALL HW-1

SCALES

PLAN	1" = 50'
PROFILE, HORIZONTAL	1" = 50'
PROFILE, VERTICAL	1" = 5'
CROSS-SECTION, HORIZONTAL	1" = 20'
CROSS-SECTION, VERTICAL	1" = 5'

DRAINAGE APPROVED BY

Matthew P. Choma 5/12/23
CITY OF PERRYSBURG
DIRECTOR OF PUBLIC UTILITIES
MATTHEW P. CHOMA, P.E.

PAVEMENT APPROVED BY

Rob Ross 5/14/23
CITY OF PERRYSBURG
DIRECTOR OF PUBLIC SERVICE
ROB ROSS

DEVELOPED BY:

COVENTRY GLEN LTD.
3150 REPUBLIC BLVD.
SUITE 3
TOLEDO, OHIO 43615
PHONE: (419) 841-4831

Aaron Feller 7/27/23
NAME DATE

RECORD CONSTRUCTION 8/19/24



OHIO UTILITIES
PROTECTION SERVICE
CALL 1-800-362-2764
TWO WORKING DAYS
BEFORE YOU DIG
NON-MEMBERS MUST BE
CALLED DIRECTLY

1683 Woodlands Drive, Maumee, Ohio 43537
Phone: (419) 893-3680
Fax: (419) 893-2982
www.tellerfinch.com

TellerFinch
& ASSOCIATES, INC.
Engineers • Surveyors

PAVEMENT AND DRAINAGE

COVENTRY POINTE PLAT FOUR



SIGNED *Aaron Feller* 5/11/2023
DATE
02-15-23
PROJECT:
10E08869

FELLER, FINCH & ASSOCIATES, INC.			
REVISION	DATE	DESIGN BY:	AMF
		DRAWN BY:	AMF
		DATE:	11-16-21
		CHK'D BY:	GNF
		DRAWING:	10-088690P03A1

PAVEMENT AND STORM SEWER SPECIFICATIONS

PART 1 GENERAL

1.1 SUMMARY

- A. Storm sewers, 60 inches in diameter and smaller.
- B. Pavement for local roads.
- C. Audio-DVD/CD taping of existing and new storm sewer interiors.

1.2 STANDARDS

- A. All materials and construction shall be in accordance with the Standards and Specifications of the City of Perrysburg (the City) Department of Public Services/Utilities, and/or the American Society for Testing and Materials (ASTM), and/or the Wood County Engineer, and/or the Ohio Department of Transportation (ODOT) Construction and Material Specifications (CMS). In case of conflict, City Standards and Specifications shall take precedence.
- B. All references to Standards and Specifications are to the latest edition, unless otherwise noted.
- C. The City's Pavement and Storm Sewer Standard Details apply to these specifications.

1.3 PRE-CONSTRUCTION MEETING, INSPECTION, AND PERMITS

- A. The Department of Public Utilities (419-872-8050), shall be notified seven calendar days prior to the beginning of actual construction.
- B. Any work within the City's public rights-of-way requires a Street Opening Permit which is obtained from the Departments of Public Utilities, at 211 East Boundary Street, 419-872-8050.
- C. All storm sewer installation and testing shall be inspected by the City or its representative.
- D. The City or its representative shall be present during all storm sewer TV inspection and taping.

1.4 DEFINITIONS

- A. Bedding: Material placed under, beside and directly over the pipe for the full width of the trench, from a depth of 4 inches below the outside bottom of the pipe barrel, when the pipe is laid on its final grade, up to a horizontal plane a distance of 12 inches above the top of the pipe barrel.

C:\Users\insommers\Desktop\11x17 storm specifications_revised_01-24-2017.docx

Page 1 of 5

PAVEMENT AND STORM SEWER SPECIFICATIONS

maximum allowable depths (ground surface to invert) and the maximum allowable trench widths (at the top of the pipe) for the various classes and sizes of ASTM C76 reinforced concrete pipe shall be as follows:

ASTM C76		CLASS II		CLASS III	
Pipe Diameter	Depth	Trench Width		Depth	Trench Width
42 inch	12'	6'-3"		16'	6'-3"
54 inch	13'	7'-6"		17'	7'-6"
60 inch	14'	8'-0"		18'	8'-0"

ASTM C76		CLASS IV		CLASS V	
Pipe Diameter	Depth	Trench Width		Depth	Trench Width
42 inch	25'	6'-3"		35'	6'-6"
54 inch	25'	7'-6"		35'	8'-0"
60 inch	27'	8'-0"		35'	8'-6"

C. Manholes shall not be designed or constructed to be located within the landscaped islands of cul-de-sacs.

- C. Manholes shall not be designed or constructed to be located within the landscaped islands of cul-de-sacs.

1.9 SEWER INSPECTION SYSTEM REQUIREMENTS

- A. Camera:
- Capable of operation in 100 percent humidity conditions.
 - Specifically designed and constructed for intended service.
 - Resolution: 500 lines per inch; color image.
 - Provided with built-in lighting system.
 - Provide remote operation of lighting system and camera.
 - Provide with pan and tilt rotating head capabilities.
 - Footage Meter: Provide equipment with a footage meter so that the location of the camera and point of observation is known at all times.
- B. Monitor:
- Located inside mobile TV studio large enough to accommodate a minimum of four people to view the monitor at all times.
 - Capable of providing a color picture.
- C. DVD/CD Recorder:
- Compatible with closed circuit TV to allow for direct recording during inspection.

PART 2 PRODUCTS

2.1 PIPE MATERIAL

- A. PVC Plastic Pipe and Fittings:
- ASTM D3034 (6" thru 15" pipe sewer at manufacturer's recommended depth).
 - ASTM F679 (18" thru 21" pipe sewer at manufacturer's recommended depth).

C:\Users\insommers\Desktop\11x17 storm specifications_revised_01-24-2017.docx

Page 2 of 5

1.5 REGULATORY REQUIREMENTS

- A. Construction operations shall comply with the City's Noise and Vibration Control Ordinance, Section 634.11, as follows:
- No person shall use any pile driver, shovel, hammer derrick, hoist tractor, roller or other mechanical apparatus operated by fuel or electric power in building or construction operations between 10:00 p.m. and 6:00 a.m. of the next day in a residential area or within 500 feet of a school or church, except for temporary conditions approved by the Service-Safety Director.
 - No person shall perform any construction or repair work on any structure or building, or perform any excavation or road work, when such work entails the use of any power operated construction type device in such a manner that the noise created thereby substantially exceeds the noise customarily and necessarily attendant to the reasonable and efficient performance of such equipment.
 - Whoever violates any of the provisions of this section is guilty of a minor misdemeanor for a first offense and a misdemeanor of the fourth degree for any subsequent offense. Punishment shall be as provided in Ordinance Section 699.02.
- B. In accordance with Ordinance 1040.07, Rule 24 of the City's Streets, Utilities, and Public Services Code, "The sewer contractor shall be required, for two years after the completion of the work, to make all necessary repairs, including filing and seeding if settlement occurs." The sewer contractor is the Contractor responsible for the performance of the Work.

1.6 QUALITY ASSURANCE

- A. Pipe Sewers, Manholes and Appurtenances:
- The manufacturer's affidavit indicating that all pipe, fittings, manholes, catch basins and appurtenances have been manufactured and tested in accordance with the requirements of the applicable referenced Standards. A copy of the affidavit, including the project on which the material is to be used, shall be forwarded to the City prior to construction.
 - All pipes, fittings, manholes, catch basins, and appurtenances shall be appropriately marked for identification purposes. The materials and methods of manufacture, and completed pipes, fittings, manholes, catch basins, and appurtenances shall be subject to inspection and rejection at all times. The City has the right to make inspections.
- B. Pipe Sewer Inspection:
- Contractor shall have a minimum of 5 years experience in inspection of pipeline sewers in addition to TV-DVD/CD and summary reports.
 - Perform Work in accordance with the latest standards for TV-DVD/CD recording procedures.

- Operation of equipment shall be controlled from above ground.
- The City shall have access to view monitor at all times.
- Inspection shall include pipe sewers from manhole to manhole.
- New sewers and existing sewers shall have its own separate DVD/CD and separate documentation.
- Label new and/or existing accordingly for all documentation.

1.7 RESTORATION

- A. All existing features that are disturbed due to construction activities, such as mailboxes, shrubs, bushes, guardrails, pavement markings, swales, sewers, catch basins, curbs, seeded areas, etc., shall be replaced to their original condition, unless otherwise specified, in accordance with current ODOT specifications and to the satisfaction of the City. Existing survey monuments, bench marks, property corner points, and control points damaged or disturbed by construction shall be replaced by a registered land surveyor, licensed in the State of Ohio.
- B. Restoration of street openings shall be in accordance with the City's Standard Street Opening Repair Details.
- C. In existing streets, provide a temporary pavement upon completion of backfilling operations and maintain same until the permanent pavement can be placed. Temporary pavement shall be a minimum 2-inch thick asphalt concrete mix in accordance with ODOT Item 614.13.

- D. Regrade and reshape all road shoulders and all ditches and swales from existing high points to existing drainage structures or other outlets along the proposed improvement. Ditches which are reshaped shall have reasonable side slopes. Vertical or steep slopes will not be permitted.

- E. Seed all disturbed earth areas using the hydroseeded method or placement of sod, both seed mixture and sod type shall be as approved by the City.

1.8 DESIGN REQUIREMENTS

- A. PVC Plastic Pipe and Fittings: Sewers 36 inch in diameter and smaller shall be of PVC plastic pipe and fittings, or other material as approved by the City.
- B. Concrete Pipe and Fittings: Sewers greater than 36 inch in diameter shall be Reinforced Concrete Pipe (RCP), ASTM C76 of Classes noted on Drawings, spigot and socket pattern, pipes of greatest lengths commercially available; ASTM C443 rubber gasket joints with gasket confined in a groove. Branches on fittings in the main line for connections shall be of the same material and incorporate joints as specified for the type of pipe which will be connected. Branches shall be cast with the concrete pipe by the pipe manufacturer and shall not be done in the field;

Revised: 01-27-2017

PAVEMENT AND STORM SEWER SPECIFICATIONS

- D. Pipe Underdrains: ODOT Item 805 using pipe 706.06, 706.07, 706.08 or 707.41.

2.6 MONUMENT ASSEMBLY (IN PAVED AREAS)

- A. Neenah Foundry Company, R-1978-A2 with bolted lid.

2.7 CURB RAMP DETECTABLE WARNING TRUNCATED DOMES

- A. Materials:
- Follow current ODOT Specifications 712.14 as modified herein:
 - Truncated Domes: Shall consist of cast-in-place reinforced polymer composite tiles.
 - Material supplied shall be red color, and installed by pressing tiles into place in the freshly poured concrete.
 - Material supplied and installed shall meet ODOT Standard Drawings and current approved products as listed at: <http://www.dot.state.oh.us/Divisions/Engineering/Roadway/DesignStandards/roadway/Pages/Approved%20Products.aspx> (DETECTIBLE WARNINGS)

- B. Concrete: ODOT Class C.

PART 3 EXECUTION

3.1 STORM SEWER PIPE AND FITTINGS

- A. Install PVC plastic pipe and fittings in accordance with ASTM D2321 and the requirements of these specifications.
- B. Install concrete pipe within the maximum allowable depths (ground surface to invert) and the maximum allowable trench widths (at the top of the pipe) as specified in 1.8.B.
- C. Excavate trenches to a depth of 4 inches below the outside bottom of the pipe barrel and bell when the pipe is laid on its final grade to allow for bedding material.
- D. Place bedding material (ODOT No. 67 or No. 57 crushed limestone) under, beside, and to 12 inches over the pipe sewer for the full width of the trench; place in 6 to 12-inch layers, loose measure, and work the crushed stone around the pipe to provide even support, to fill all voids, and to lightly compact the crushed stone (by hand).
- E. Install pipe at a minimum 10 feet horizontal distance from water mains and hydrants, and lay pipes at a minimum 18 inches vertical distance from water mains at their crossing, both as measured between the outside of the pipe walls. At crossings, install one full length of pipe so both joints will be as far from the main as possible.

2.4 BACKFILL

- A. Earth Backfill: Excavated earth material. Use finely divided material, free of stones 3 inches or greater in any dimension, to at least 3 feet above pipe top.
- B. Granular Backfill: ODOT Item 304, crushed limestone.
- C. Controlled Density Fill (CDF): A mixture of Portland cement, fly ash, and selected granular materials with a compressive strength of 100 psi; Kuhlman Corporation "K-Krete", or as approved.

2.5 LOCAL ROADS

- A. Asphalt Concrete Pavement:
- 1-1/2 inches ODOT Item 448, Type 1 (medium traffic) Surface Course, PG 64-22.
 - 2 inches ODOT Item 448, Type 2 (medium traffic) Intermediate Course, PG 64-22.
 - 10 inches ODOT Item 304, Aggregate Base (placed in 2 lifts).
 - On aggregate base, apply ODOT Item 408 Prime Coat at rate of 0.55 gallons per square yard. Installation to be as directed by the City.
 - ODOT Item 407; apply tack coat at the rate of 0.04 gallons per square yard to be placed between intermediate and surface courses and joints.
 - Sealer for Contact and Mating Surfaces and Joints: Comply with ODOT Items 401.14 and 401.17.
 - Pavement Sealer: When requested by and as approved by the City.

- B. Concrete Driveways and Parking Areas:
- Pavement: ODOT Item 452 Non-Reinforced Portland Cement Concrete Pavement.
 - Commercial Drives: minimum 9 inch thick or match existing
 - Residential Drives: minimum 6 inch thick or match existing
 - Reinforcement: Match existing.
 - Hook Bolts:
 - Provide 5/8-inch hook or deformed bolts where new abuts existing.
 - Furnish and install at 30 inches center-to-center where new abuts existing longitudinally.
 - When thickness is less than 10 inches, as determined by the City, furnish and install at 20 inches center-to-center where new abuts existing transversely.
 - When thickness is greater than 10 inches, as determined by the City, furnish and install at 26 inches center-to-center where new abuts existing transversely.
- C. Concrete Curbs: ODOT Item 609.04, Class C concrete.

C:\Users\insommers\Desktop\11x17 storm specifications_revised_01-24-2017.docx

Page 3 of 5

Revised: 01-27-2017

PAVEMENT AND STORM SEWER SPECIFICATIONS

- C. For pipe connections, fill area between pipe and opening with grout, inside and outside of structure.
- D. Install wall sections plumb and level. When walls include steps, install with steps in the center of a traffic lane or between lanes where possible when in pavement, and, when outside pavement, with steps located away from the pavement edge unless the manhole is within a ditch line, then locate steps on the high side of the ditch slope.
- E. Set grade rings in a full bed of mortar and mortar the interior of the grade rings to provide a smooth common surface from frame to top.
- F. Set casting frames firmly on top of grade rings with a full leveling bed of 1:1 cement mortar; in paved areas, make casting top 1/4 inch below top of pavement surface; in unpaved streets and alley areas, set the cover not to exceed 1 inch above the ground surface. On right-of-way and in ditches cover elevation shall be as approved by the City.
- G. If not integrally cast with the base, after pipe installation provide an Class F concrete invert having a depth equal to 1/2 the sewer pipe diameter and sloping upward toward walls approximately 3 inches, trowel concrete smooth. For concrete inverts integrally cast with the base, fill any void between base and wall with Class F concrete to match top of shaped invert.
- H. Encase all manhole frames located in pavement in concrete extending from a horizontal plane 4 inches below the lowest grade ring up to the top of the frame, unless otherwise shown or noted. Make the concrete encasement circular in plan by using a minimum 48-inch diameter steel casing ring as a form, centered on the frame.
- I. For rear yard catch basin, pour a 4 inch thick Class C concrete base upon compacted subgrade. Install catch basin pipe to finish grade, bell end up, upon bases; connect pipes, and backfill, set frame and grate.
- J. Each lot shall have direct access to a rear yard catch basin, per the standard details.
- K. Manholes and catch basins shall be located no further than 15 feet behind back of curb or edge of pavement unless approved by City of Perrysburg.

- D. Existing pvc sewer pipe sewer connections: for up to 15 inch diameter services, connect to the main sewer by making a direct connect by providing an inserta tee manufactured by Inserta Fittings.
- E. New and existing concrete pipe sewers 12 inch diameter and larger: for 6 and 10 inch diameter services connect to the main sewer by providing a Kor-N-Tee pipe to pipe lateral connector as manufactured by NPG. Hole shall be cored by using a diamond bit drill of the appropriate size. For 12 inch and 15 inch diameter, connect to the main sewer by providing an inserta tee manufactured by Intera Fittings.
- F. Install 3 feet minimum into each lot, or as otherwise noted, true to line and on at least 1 percent grade with a minimum depth of 5 feet at the plug or the maximum depth possible for main sewers less than 5 feet deep.
- G. Provide riser sections of pipe and fittings between the main line sewer connection and that portion installed on at least a 1 percent grade where depths to the main sewer invert exceed 12 feet. Fix riser in place for its full height by providing thoroughly tamped pipe embedment material as shown.
- H. Close service connections not immediately connected to an existing sewer with a sewer pipe plug. Plug shall be specifically designed for use with the pipe, shall be for use as a permanent or temporary plug, shall be watertight, and shall be removable without damaging the pipe.
- I. Do not backfill the ends of service connections until the location is referenced in accordance with the detail on the Drawings. Provide a 2-inch square oak pole accurately placed over the terminus of each service connection and extending vertically flush with the surface of the ground so that it can be located.

3.4 CONNECTIONS TO STRUCTURES AND PIPES

- A. Connect new sewers to structures through stubs, wall castings, wall sleeves, etc. provided for same, or make an opening at the proper elevation in the wall of the structure, insert the pipe, and suitably and permanently close the opening around the pipe with grout.
- B. Make connections watertight.

C:\Users\insommers\Desktop\11x17 storm specifications_revised_01-24-2017.docx

Page 4 of 5

Revised: 01-27-2017

RECORD CONSTRUCTION 8/19/24

2
22

10E08869-4

FELLER, FINCH & ASSOCIATES, INC.			
REVISION	DATE	DESIGN BY:	AMF
		DRAWN BY:	AMF
		DATE:	11-16-21
		CHK'D BY:	GNF
		DRAWING:	10-08869DP03A1

PAVEMENT AND STORM SEWER SPECIFICATIONS

- a. Meet minimum standards for CCTV inspection of sewers as prepared by the National Association of Sewer Service Companies (NASSCO).

b. Log Sheet: A written log sheet must accompany each DVD/CD.

c. For new sewers, Contractor shall utilize and make reference to manhole numbering as shown and indicated on the project Drawings.

d. For existing sewers, Contractor shall prepare and provide a map indicating manhole numbering.

e. Reference to new and existing manhole numbers on the DVD/CD, summary report, and pictures shall be consistent with the numbering sequence on the Drawings and on the map provided by Contractor.

3.6 LOCAL ROADS (UNLESS OTHERWISE APPROVED OR DIRECTED)

A. Prepare subgrade in accordance with ODOT Item 203. Where it is necessary to construct pavement subgrade in fill, remove the existing topsoil beneath the proposed subgrade.

B. Asphalt Concrete Pavement:

1. ODOT Item 304; construct a 10-inch thick aggregate base in two equal lifts.

2. ODOT Item 406; apply prime coat at the rate of 0.35 gallons per square yard to the aggregate base. Installation to as be directed by the City.

3. ODOT Item 446; construct a 2-inch thick asphalt concrete intermediate course.

4. ODOT Item 448; construct a 1-1/2-inch thick asphalt concrete surface course.

5. ODOT Item 407; apply tack coat at the rate of 0.04 gallons per square yard to be placed between intermediate and surface course and joints.

6. Pavement sealer; apply as instructed by manufacturer.

C. Concrete Driveways and Parking Areas: ODOT Item 452.

D. Concrete Curbs: ODOT Item 609.04 Type 2 Combination Curb and Gutter or Type 6 Curb.

E. Pipe Underdrains: ODOT Item 605.03, and as shown on ODOT Standard drawing DM-1.2 and approved Drawings.

3.7 MONUMENT ASSEMBLY (IN PAVED AREAS)

A. Place Type C monuments in accordance with ODOT Item 604, and Standard Construction Drawing RM-1.1.

3.8 CURB RAMP DETECTABLE WARNING TRUNCATED DOMES

A. Material to be supplied shall meet ODOT's Office of Roadway Engineering Services Truncated Domes Approved List.
- B. Installation shall be in accordance with ODOT's latest Standard Construction Drawings for New Curb Ramps (with Truncated Domes) BP-7.1 and Retrofitted Curb Ramps BP-7.2.

C. All curb ramps/retrofitted curb ramps shall include new ODOT Class C concrete where truncated dome material is to be installed.

D. The City will approve proposed material to be installed.
- 3.9 FIELD QUALITY CONTROL
- A. The City may check compaction of the bedding and backfill at any time.

B. All testing shall be in the presence of the City or its representative.

C. For compacted bedding and backfill in trenches and for concrete work, the City may require the employing a testing laboratory to make tests on Site.

1. The City will pay for required testing that meets the City bedding and backfilling specifications.

2. Contractor shall pay for any retesting required to meet specifications.

D. Deflection Test:

1. Test 8-inch diameter and larger PVC plastic pipe for a maximum deflection of 5 percent not less than 30 days after final full backfill has been placed, as determined by the City.

2. Conduct deflection tests with a representative of the City present.

3. Repair or replace pipes exceeding a deflection of 5 percent and then retest until satisfactory test results are obtained. Retesting shall not take place prior to 30 days after the pipe repair/replacement and backfill have occurred. For sewers requiring retesting for deflection and previously tested for leakage, upon obtaining satisfactory deflection test results, retest the affected sewer section for leakage.

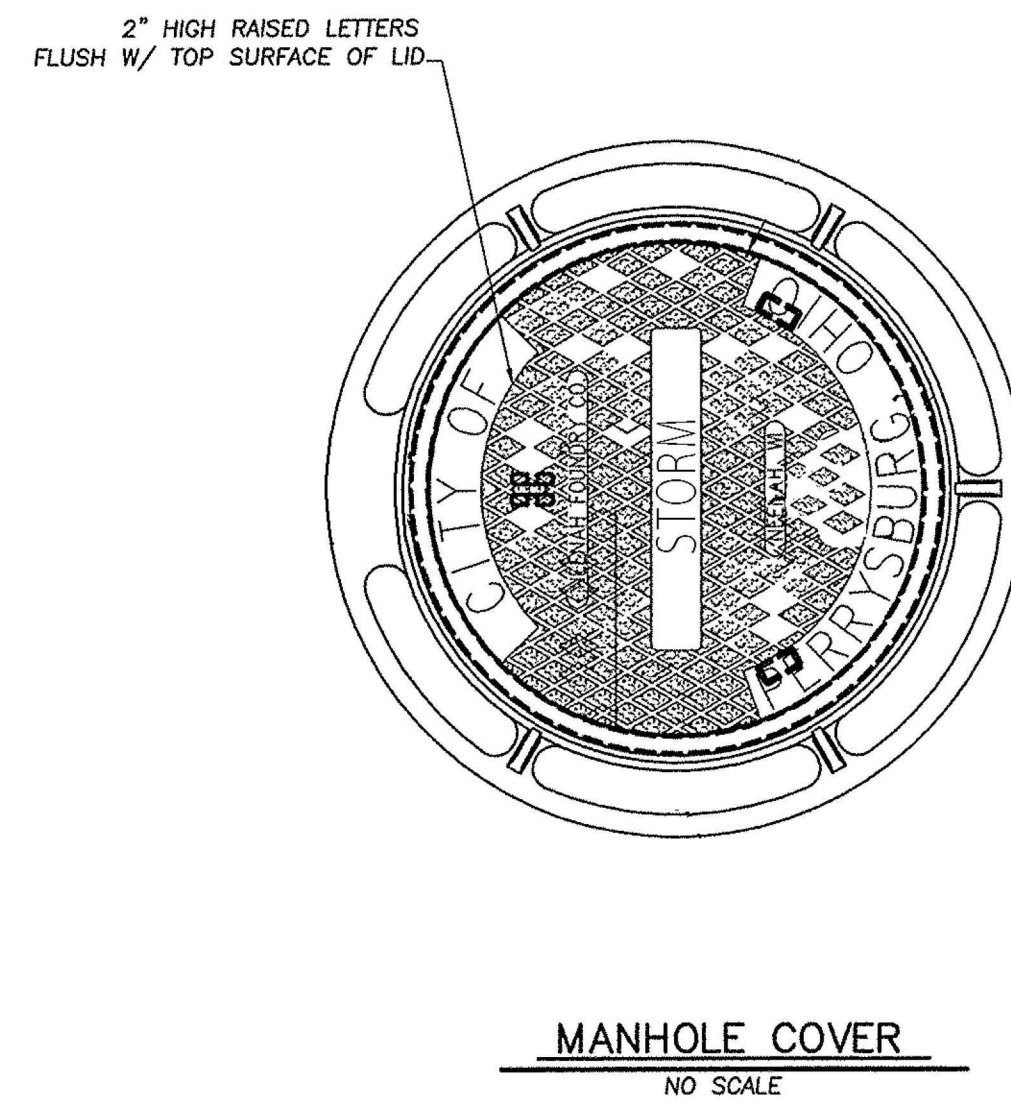
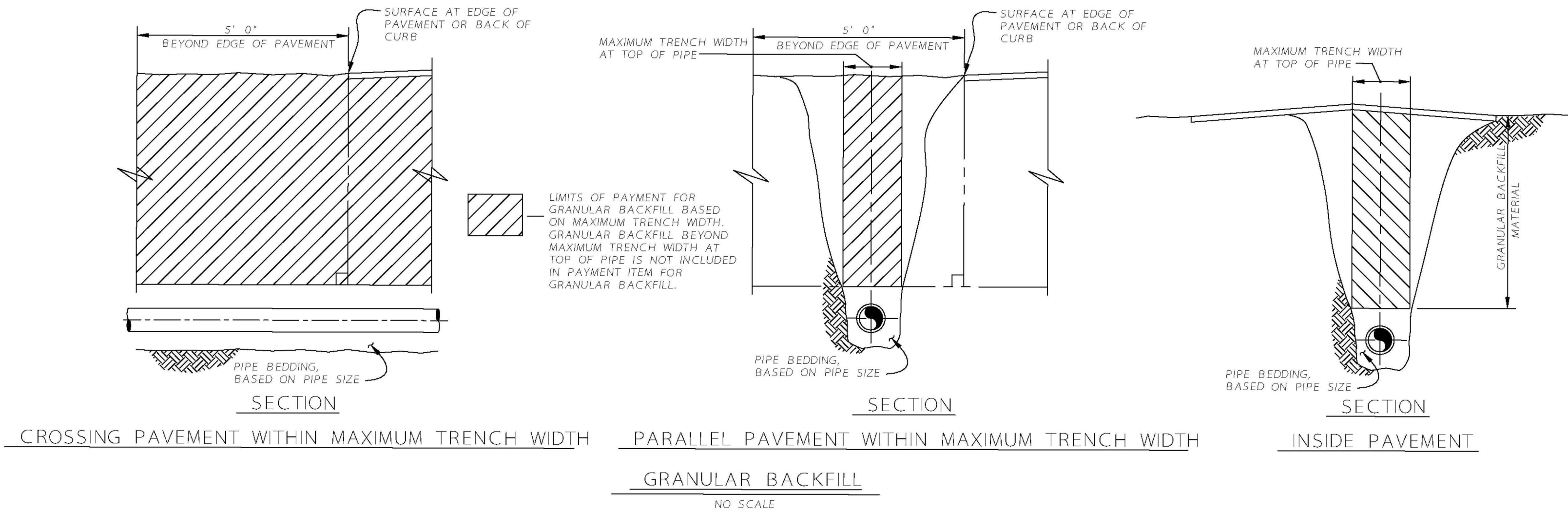
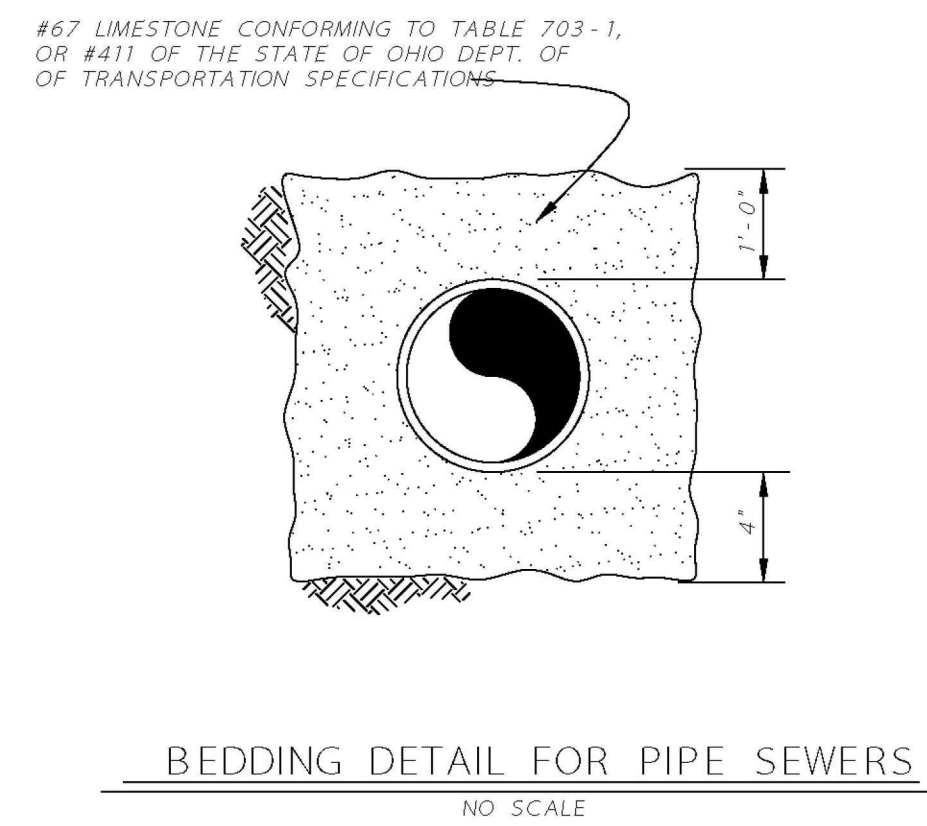
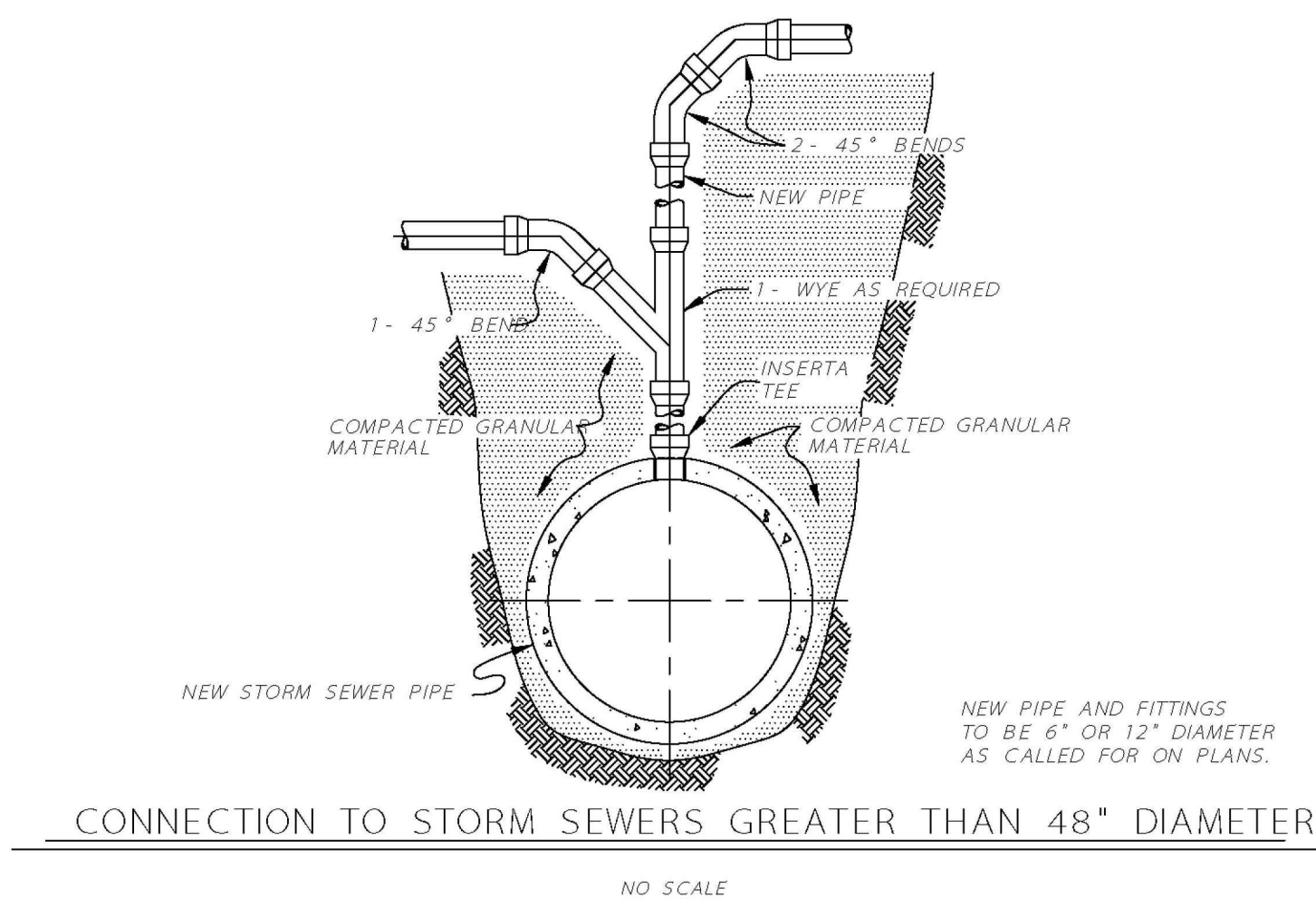
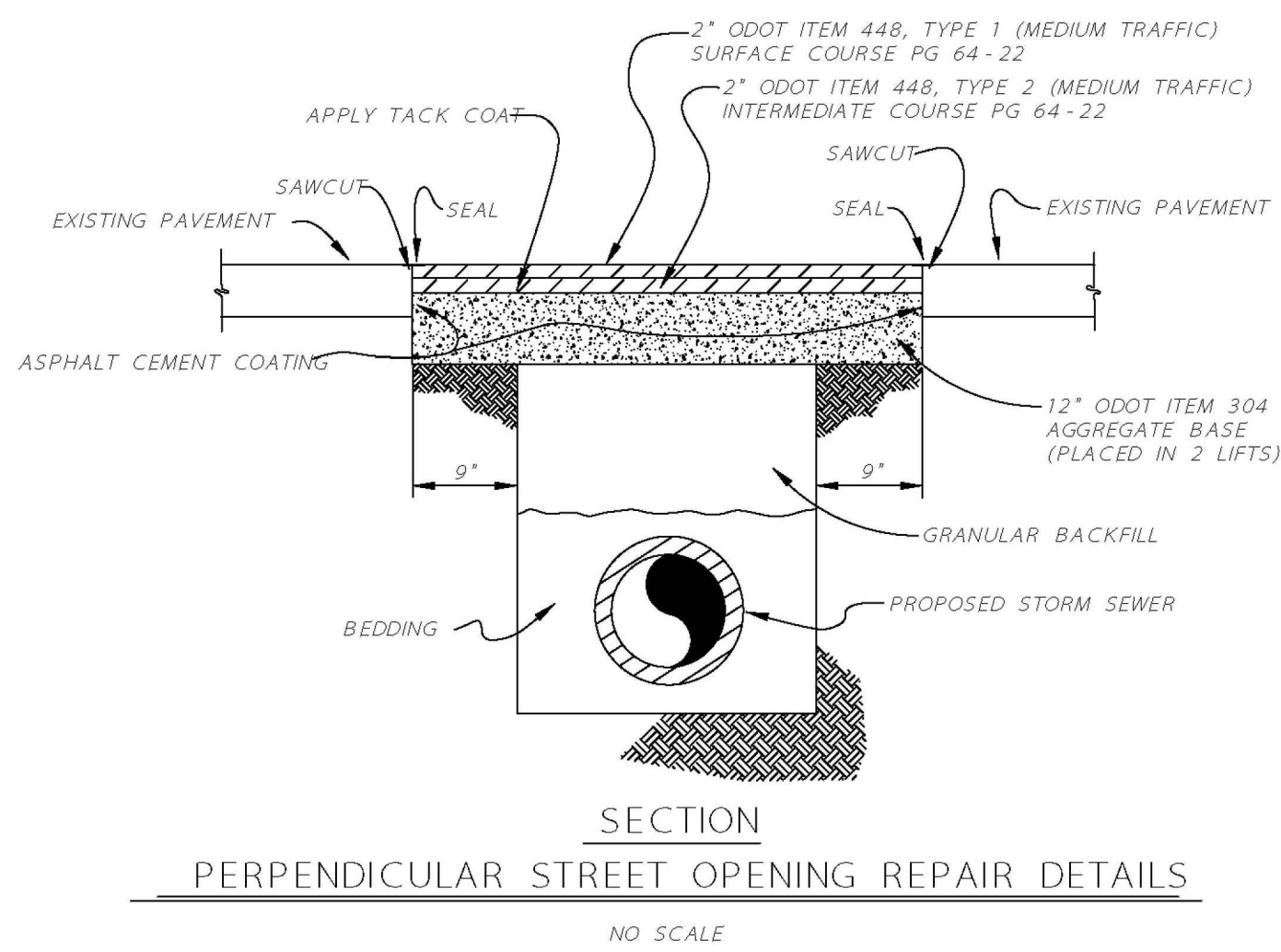
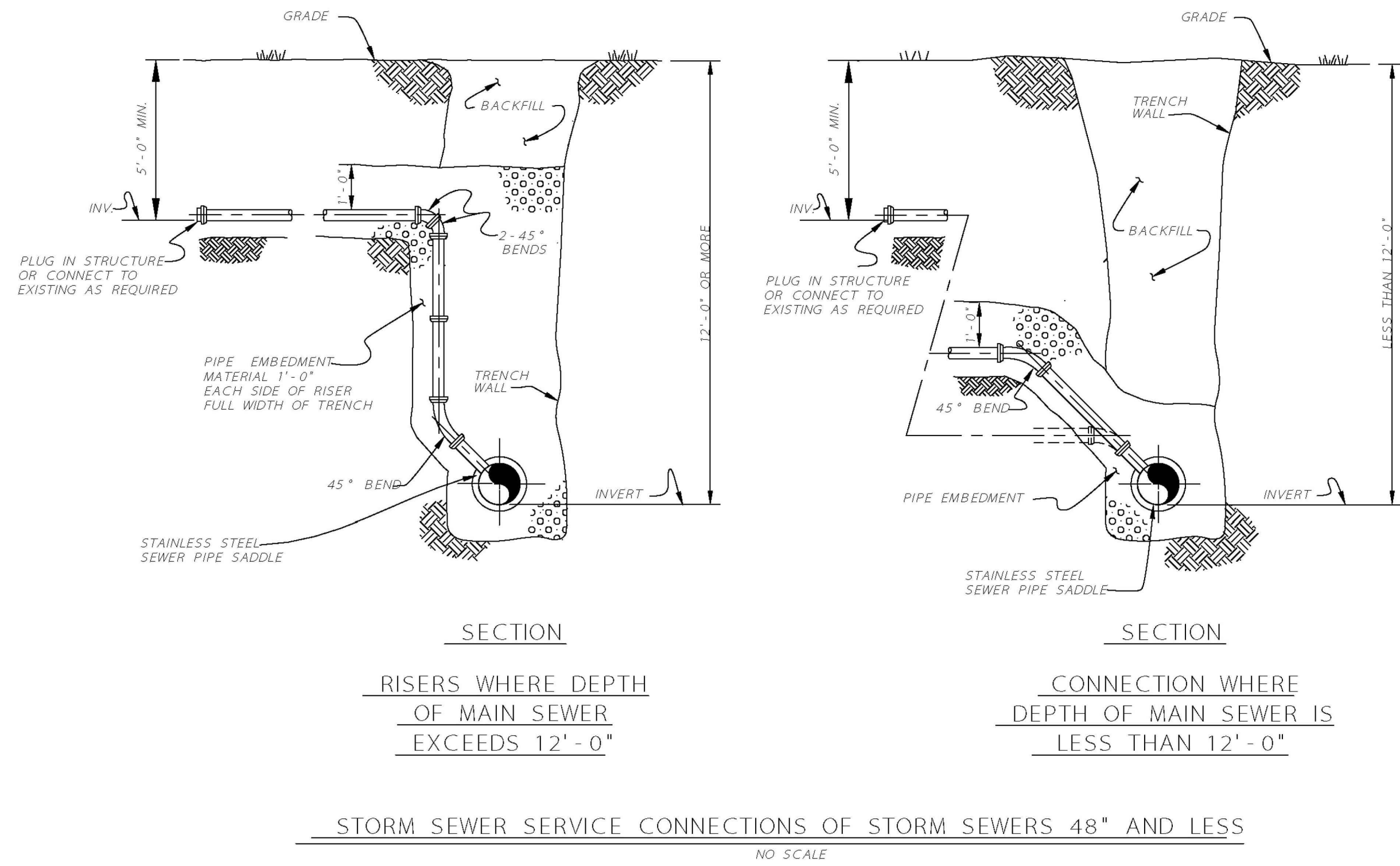
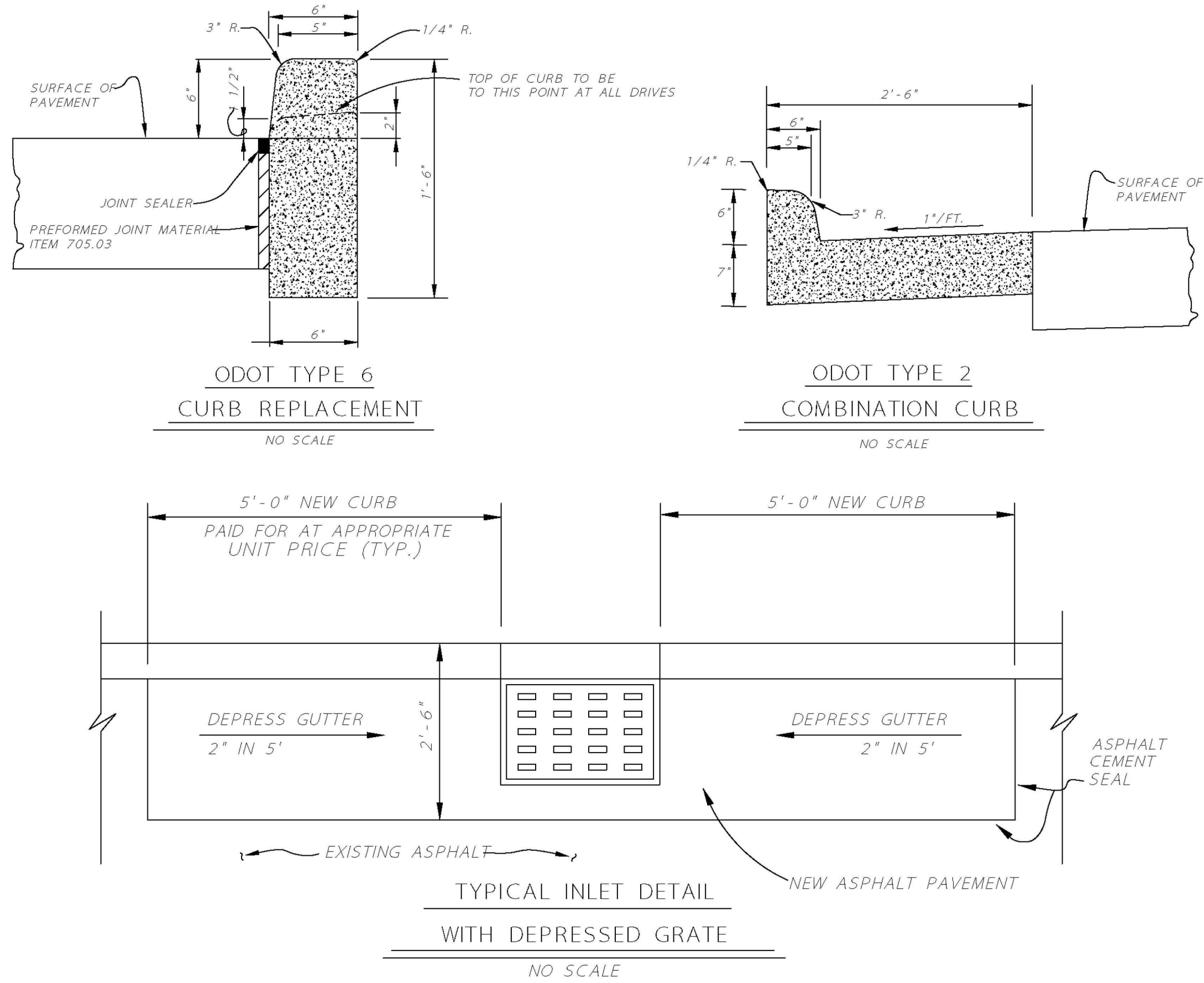
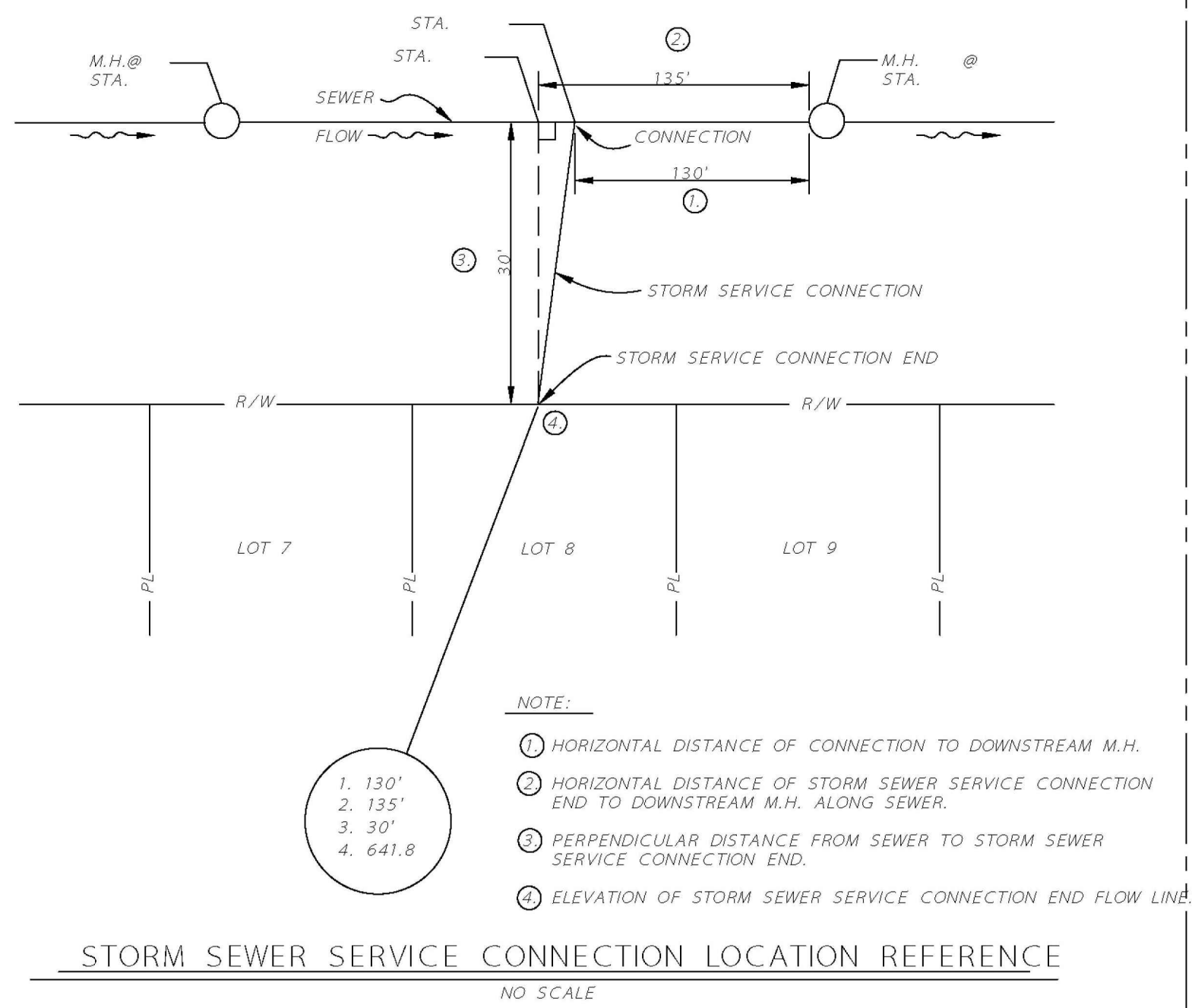
4. Conduct tests by pulling an approved deflection probe, having a diameter not less than 95 percent of the base inside diameter or average inside diameter of the pipe depending on which is specified in the ASTM Specification, including the appendix, to which the pipe is manufactured, through the sewer line without mechanical pulling devices. Have a proving ring with an inside diameter equal to the outside diameter of the probe available at the time the probe is used to verify that the probe has the proper diameter by inserting the probe into the ring. The pipe shall be measured in accordance with ASTM D2122.

5. Deflection Probe: By Wortco, Inc., Burke Concrete Accessories, Inc., or as approved; designed specifically for testing the deflection of the type and size of pipe subject to test, and complying with the following:
- a. Odd number (no less than 9) of 1/2 inch by 3/16 inch bar stock runners equally spaced on edge around and welded to the circumference of two minimum 1/4 inch thick circular steel plates.

b. Distance between plates, out-to-out, of not less than 2 inches smaller than the nominal diameter of the pipe to be tested, with runners extending approximately 1-1/2 inches beyond each plate being bent inward for this distance at approximately 30 degrees.

c. Continuous 3/4-inch threaded rod through the center of the plates, having a hex nut drawn tight against the inside face of each plate, and extending each side as required for providing a 3/4-inch ferrule loop insert or similar piece for attaching the pulling medium.
- 3.10 MAINTENANCE OF TRAFFIC
- A. Two-way traffic shall be maintained at all times on dedicated roads. If construction along dedicated roads interferes with traffic, Contractor shall provide two flaggers and other traffic control devices in accordance with the latest edition of the Ohio Manual of Uniform Traffic Control Devices.

C:\Users\vsnommers\Desktop\11x17 storm specifications_revised_01-24-2017.docx

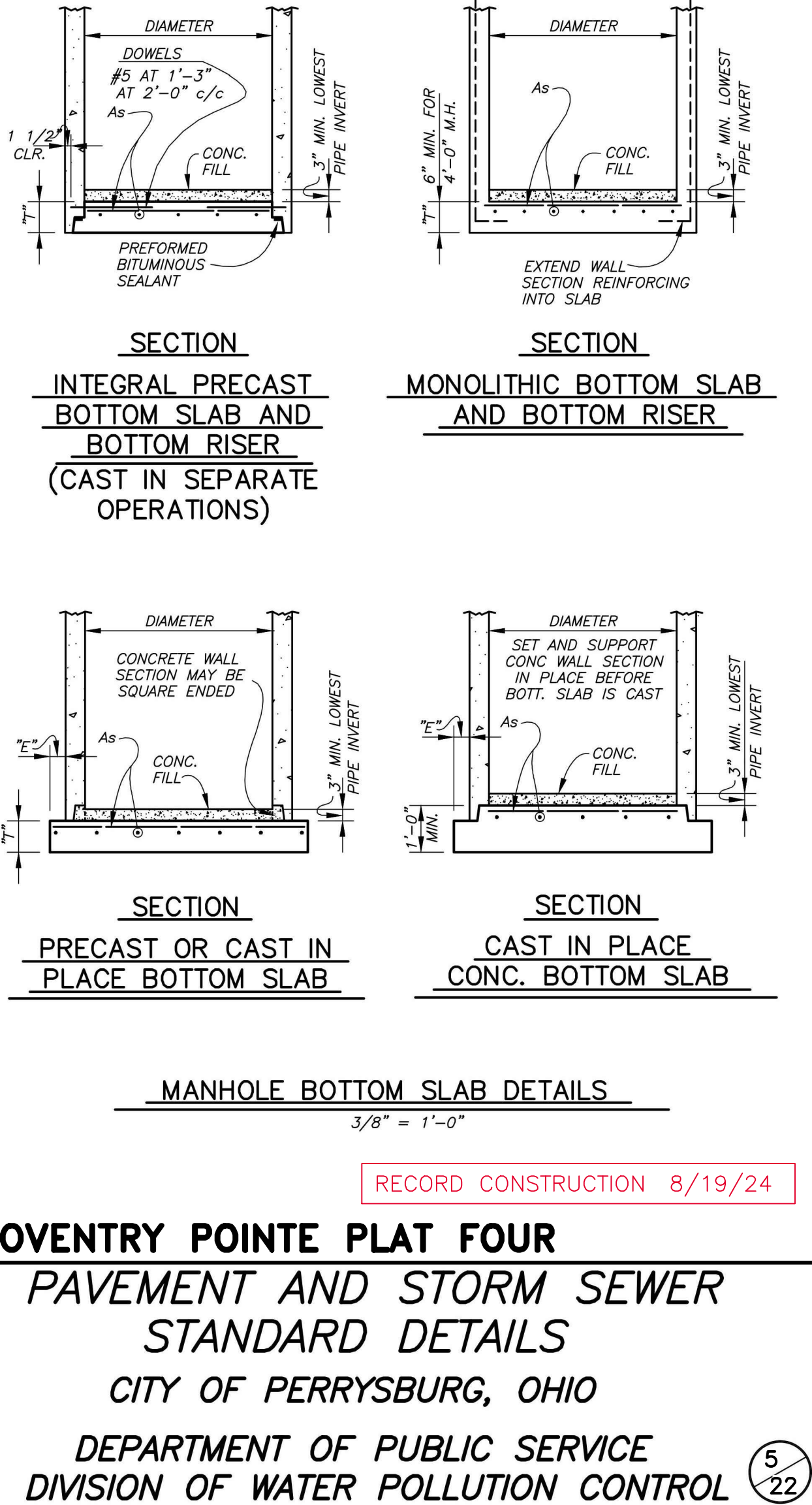
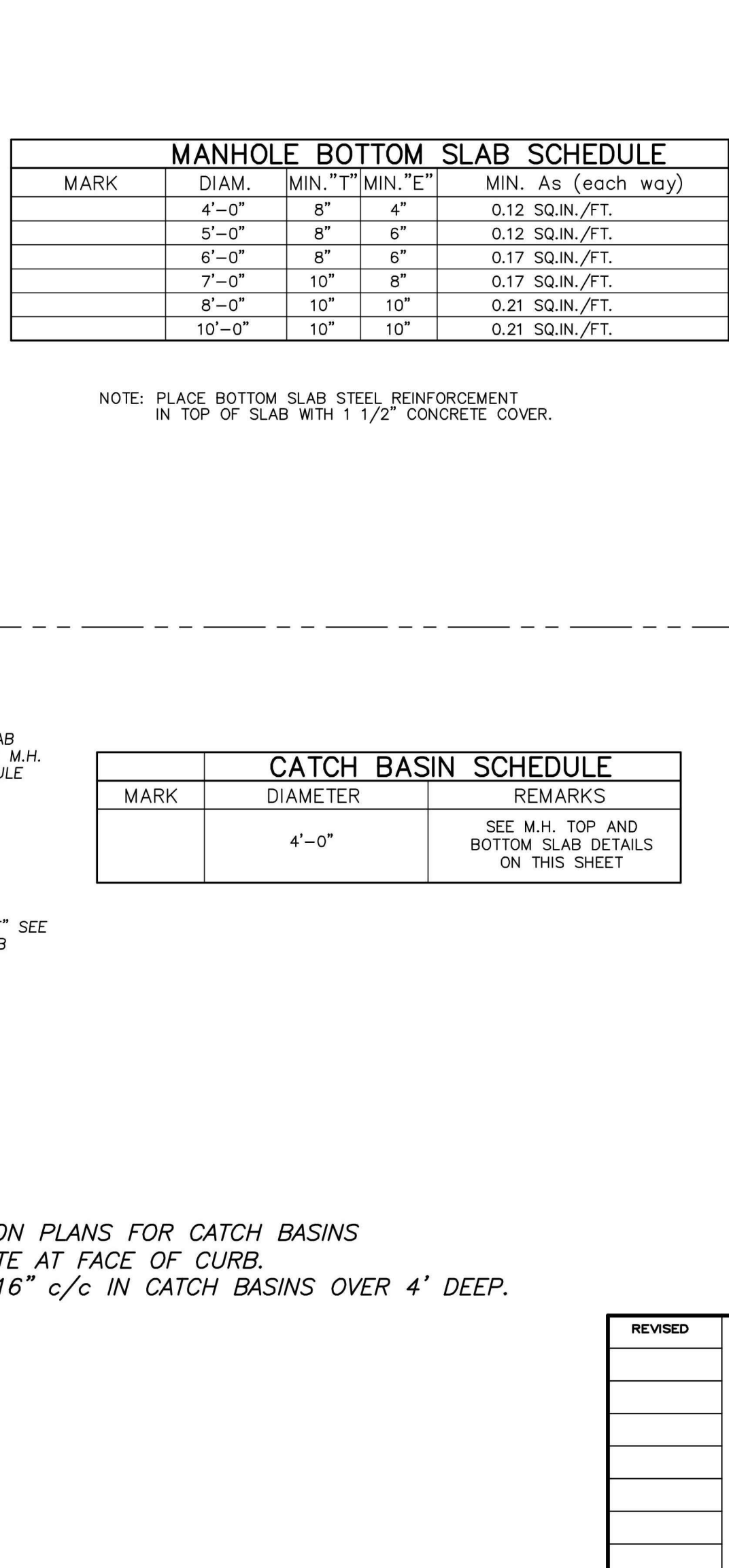
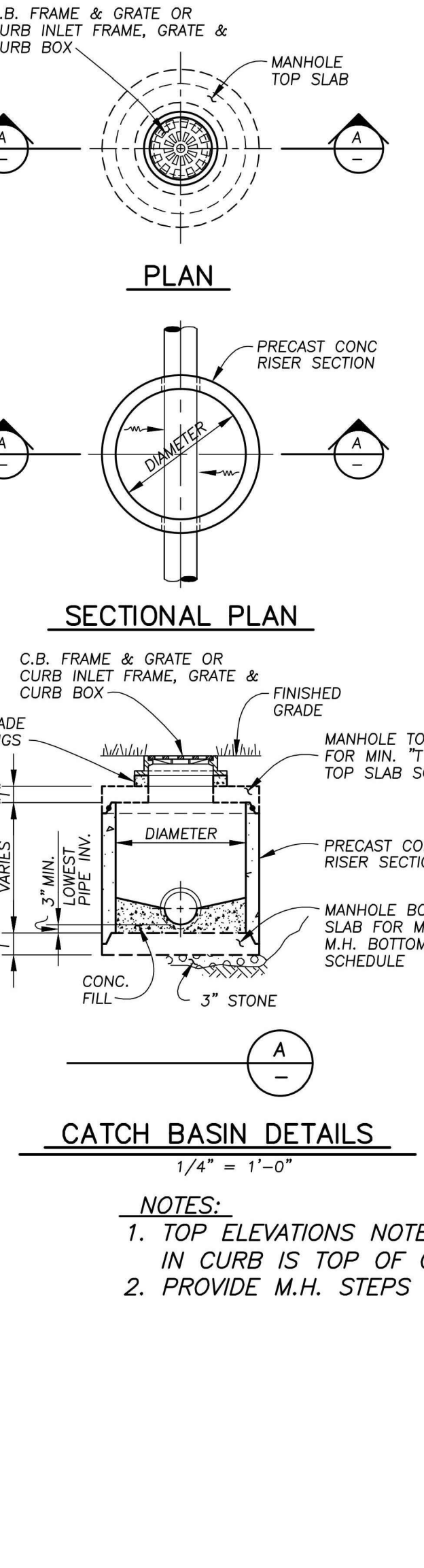
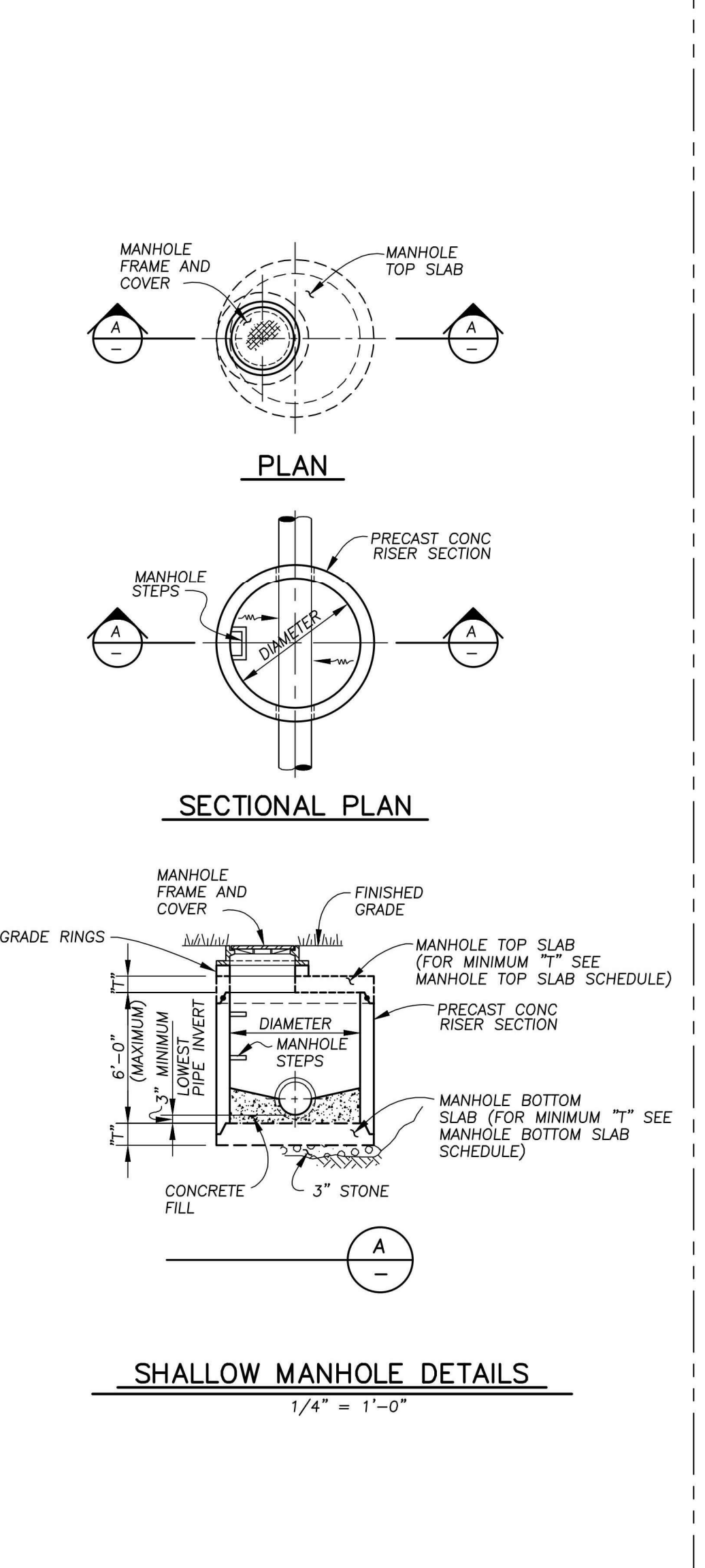
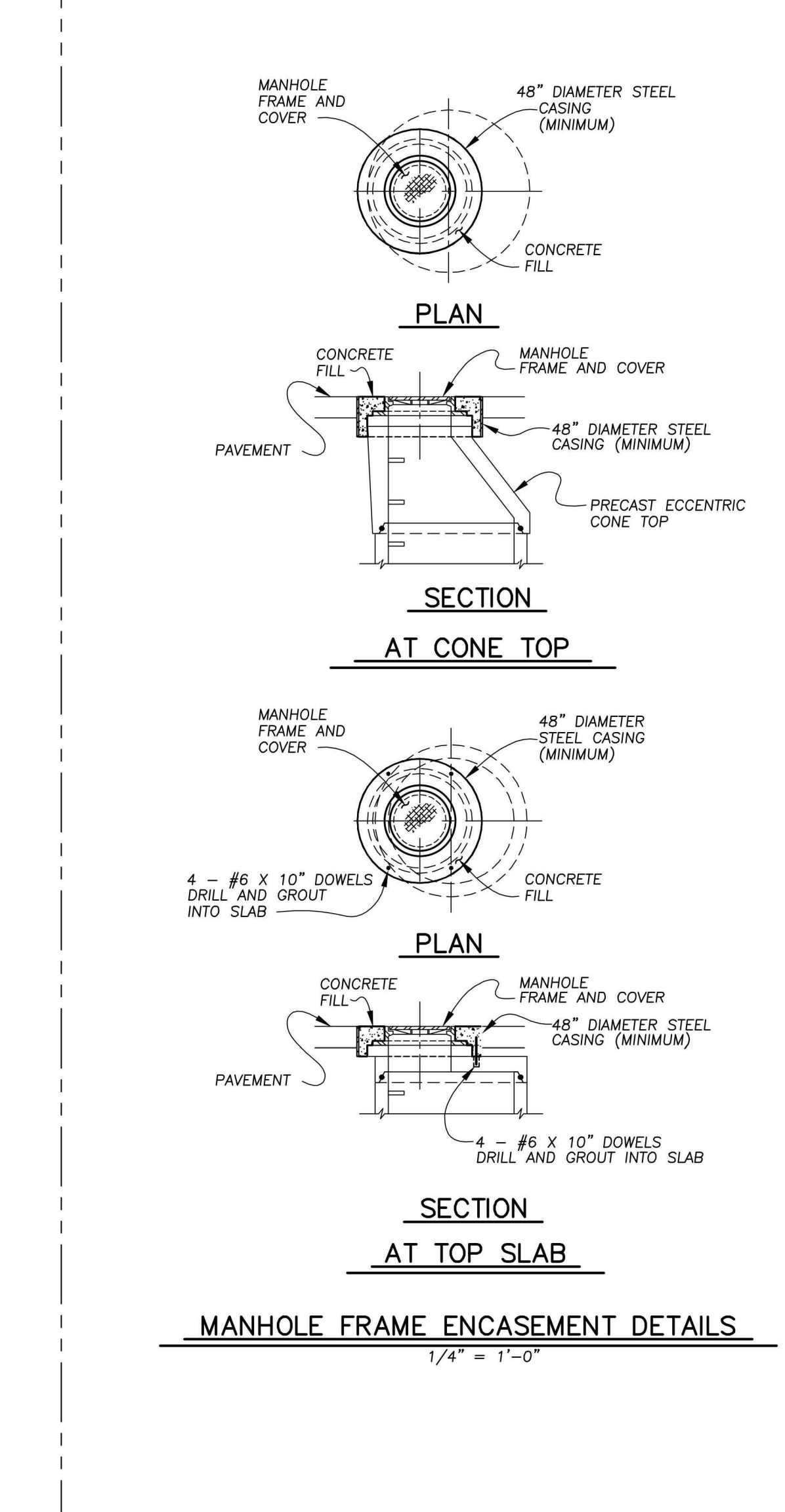
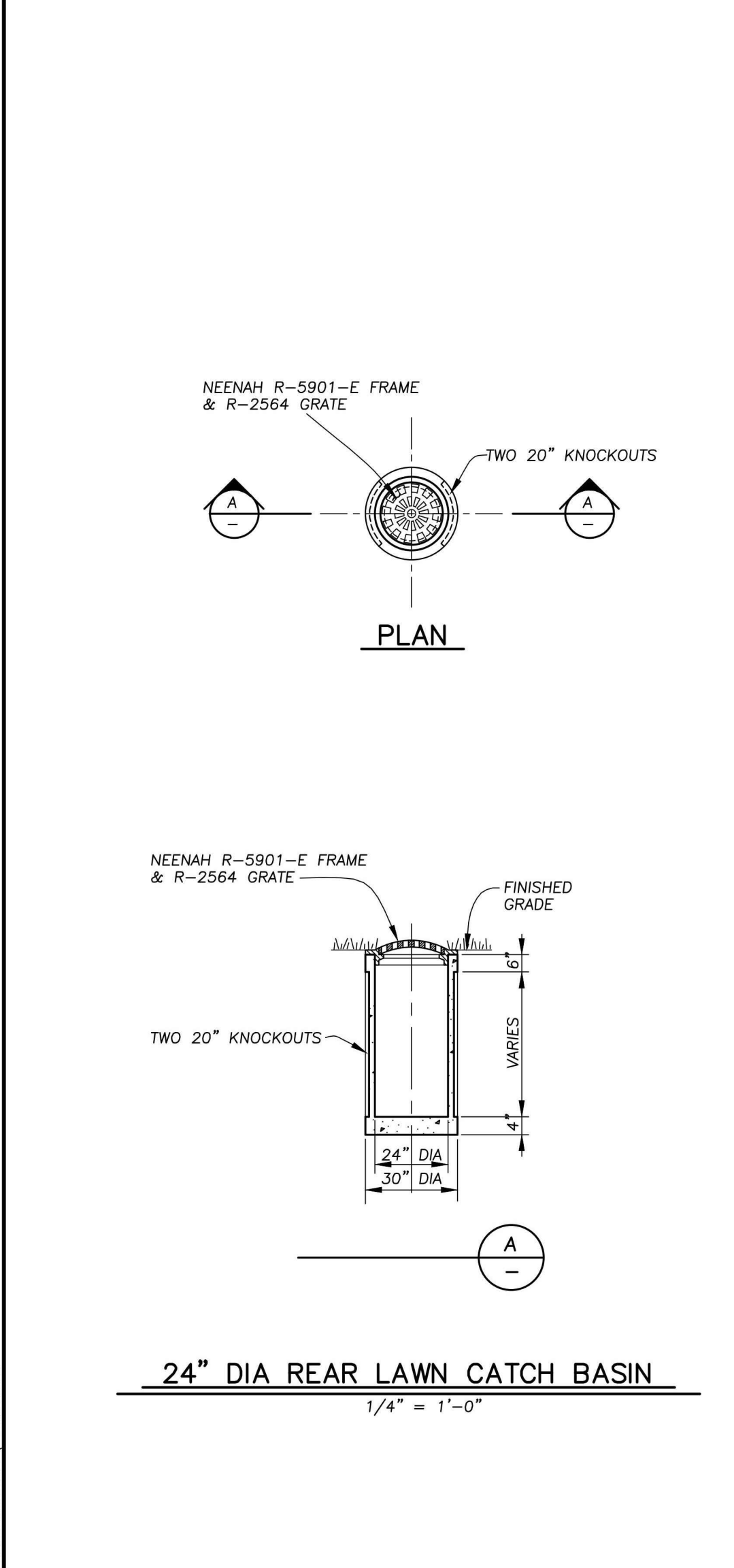
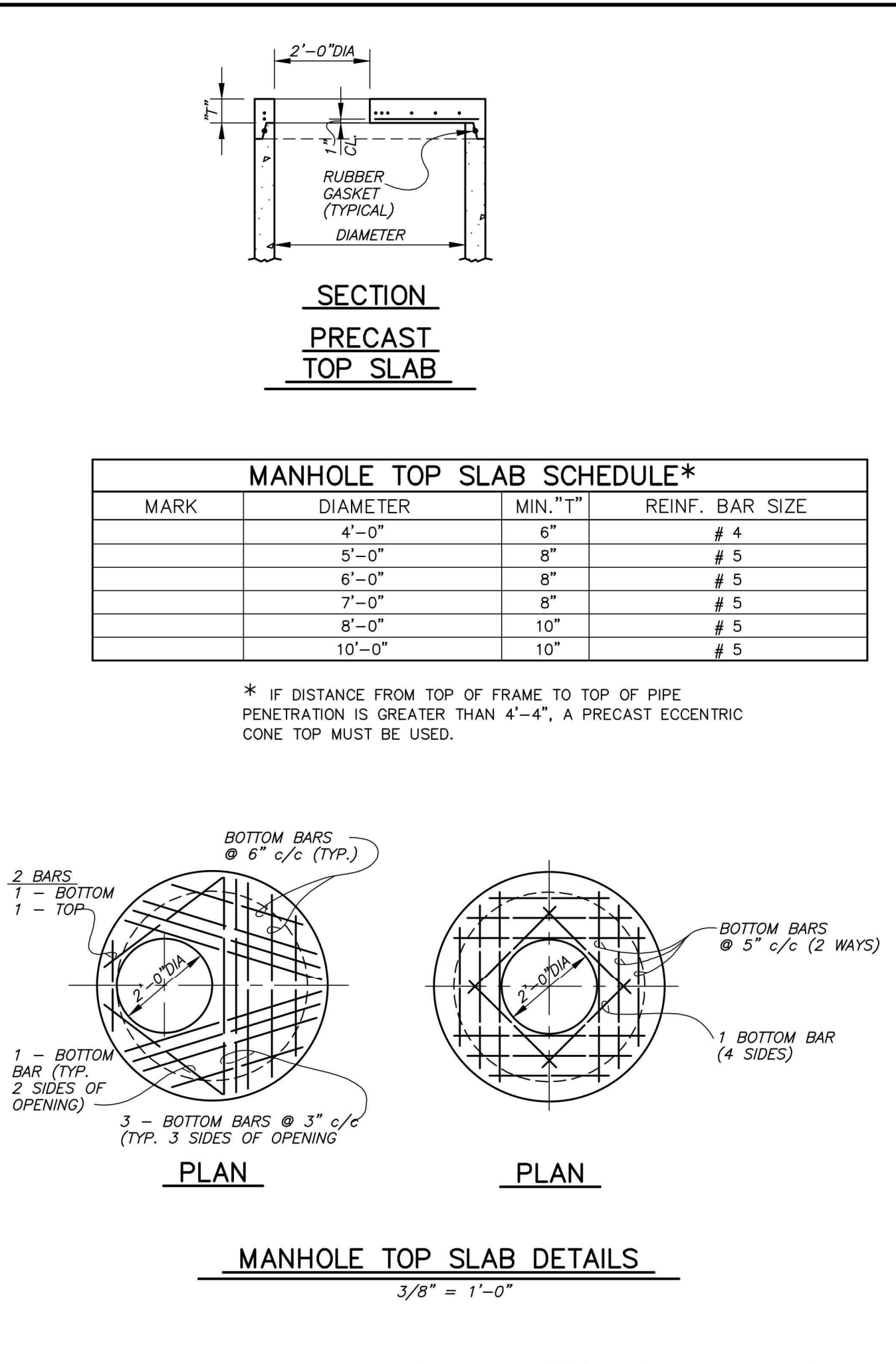
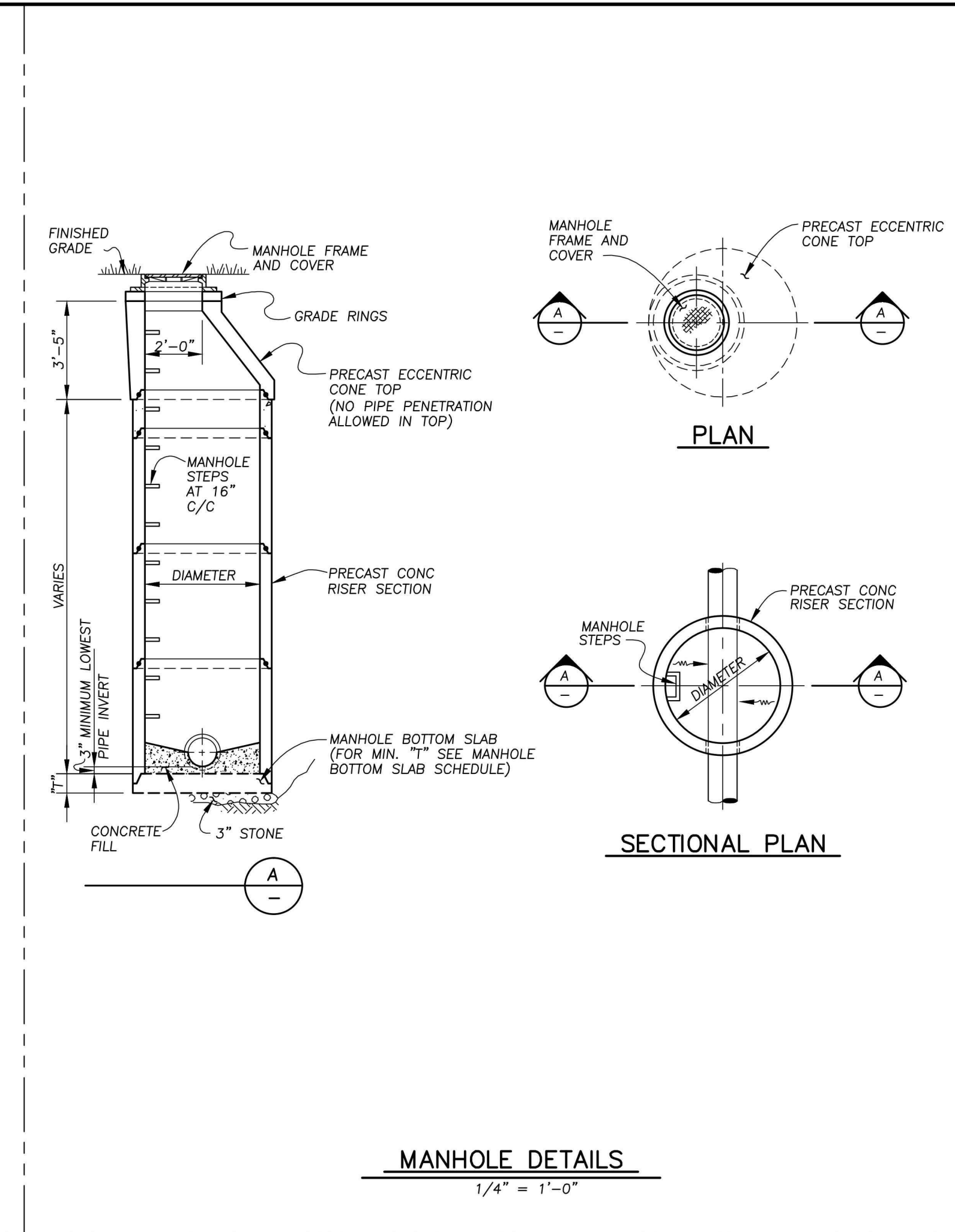
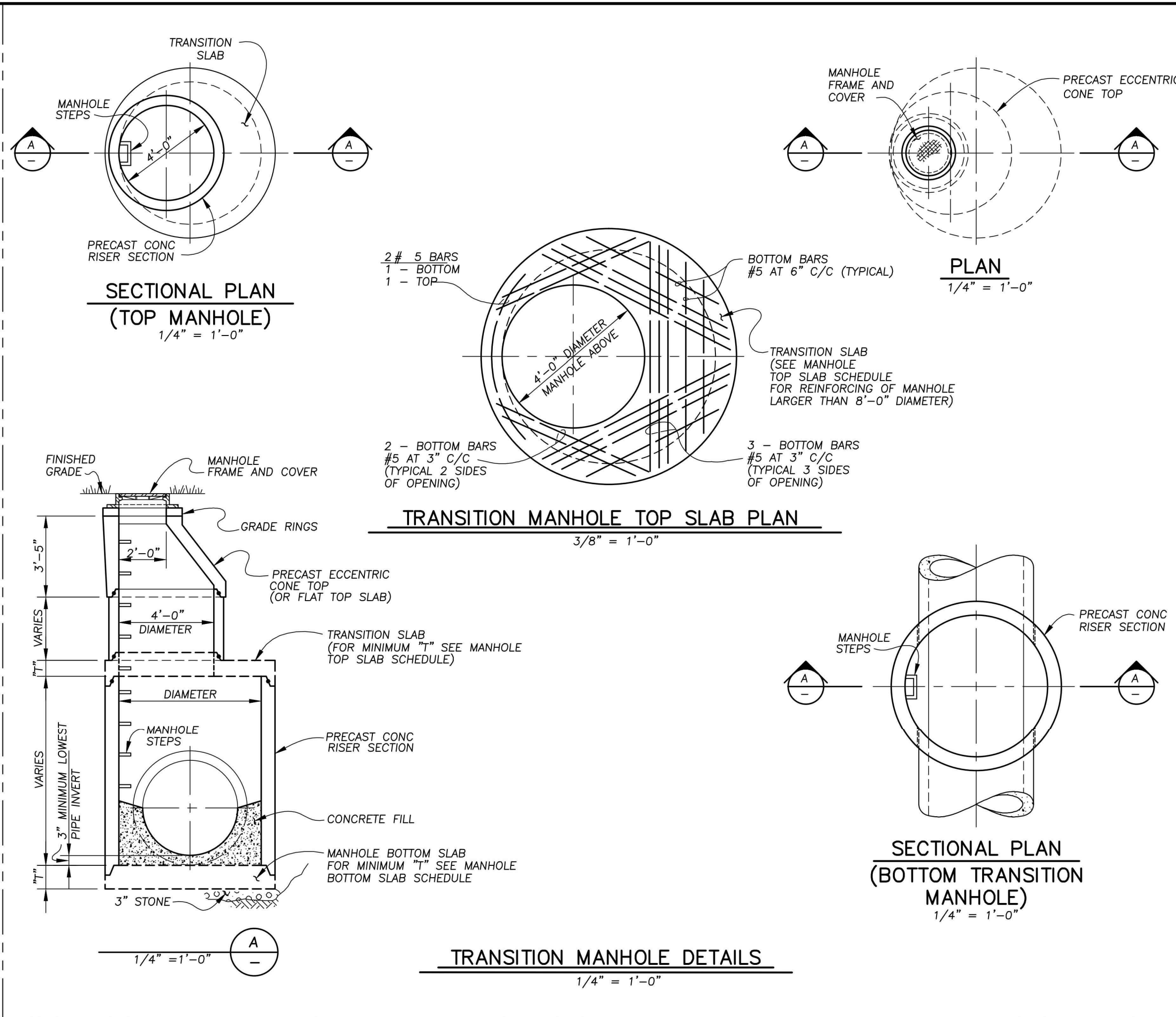
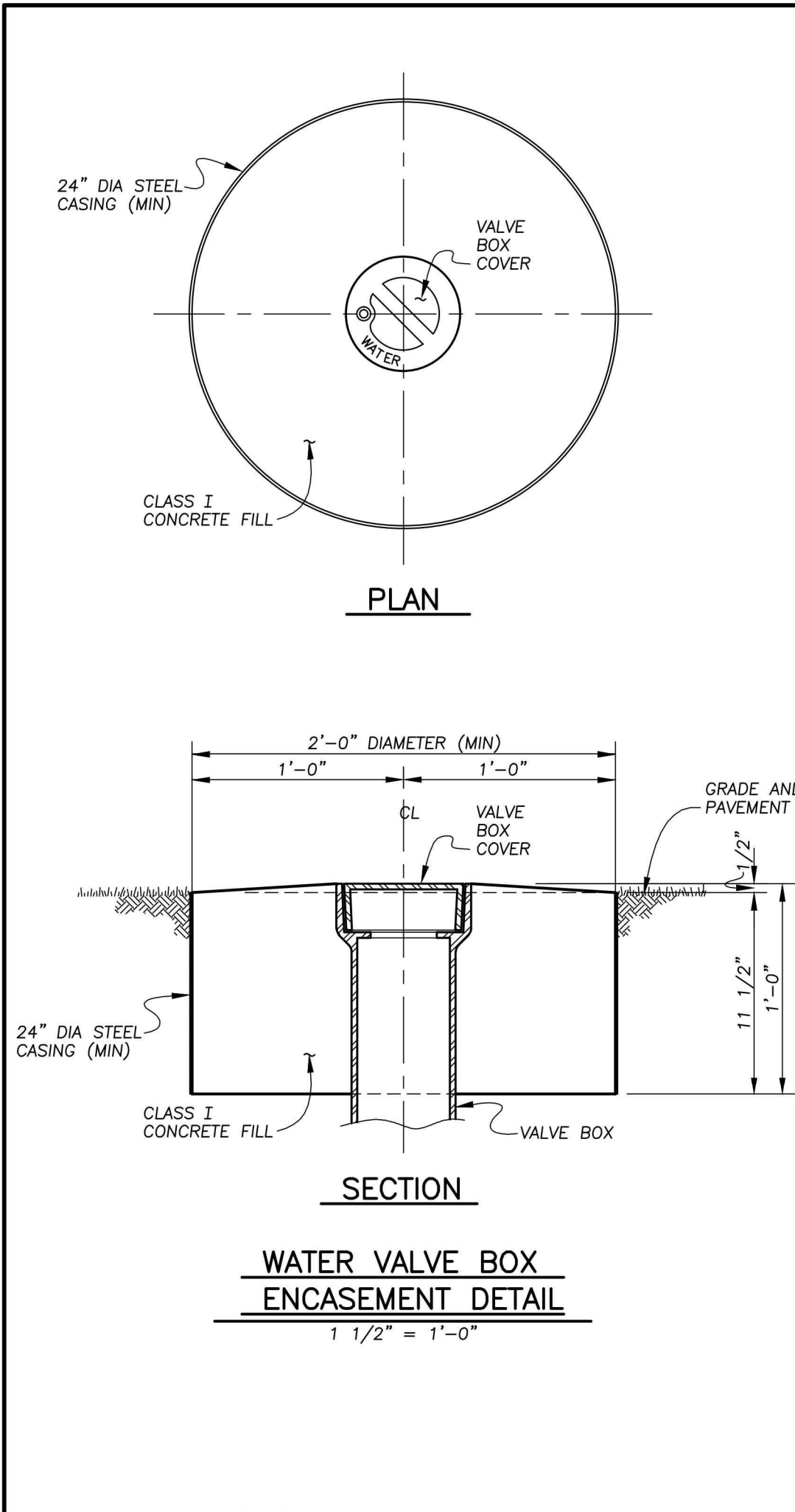


EAST JORDAN IRON WORKS, INC., CATALOGUE 1040
WITH SOLID LID TYPE B OR AS APPROVED; MACHINED
SURFACE, FRAME WITH 24 INCH DIAMETER CLEAR
OPENING, AND 7 INCH HEIGHT, LIDS TO HAVE "CITY OF
PERRYSBURG, OH" - "STORM" CAST INTO TOP.

RECORD CONSTRUCTION 8/19/24

COVENTRY POINTE PLAT FOUR
PAVEMENT AND STORM SEWER
STANDARD DETAILS
CITY OF PERRYSBURG, OHIO
DEPARTMENT OF PUBLIC SERVICE
DIVISION OF WATER POLLUTION CONTROL

REVISED
DECEMBER 2015



GENERAL NOTES

1. REAR YARD DRAINAGE

All rear yard drainage swales shall be constructed in conjunction with pavement subgrade preparation. No public utilities shall be placed within the drainage and utility easements until the rear yard grading has been approved by the City of Perrysburg. All swales shall be restored after all utilities have been constructed, and then seeded and mulched per the seeding mixture included in the General Notes. Seeding and Mulching shall not be placed without approval of the City of Perrysburg.

2. ROOF DRAINS

Roof drains, foundation drains and all other clean water connections to the sanitary sewer are prohibited.

3. HAUL ROUTES

The Contractor shall maintain these routes in a condition acceptable to the City of Perrysburg during the life of the project. This maintenance includes the removal of mud, stone and other material hauled.

4. INSPECTION

Cost of inspection by the City of Perrysburg and the material samplings and testing shall be paid for by the Developer. Material sampling and testing shall be performed by a testing firm approved by the City of Perrysburg.

5. ROAD NAME SIGNS AND STOP SIGNS

Road name signs and stop signs will be placed by the City of Perrysburg at the expense of the Developer.

6. CURB RAMPS

Curb ramps shall be constructed at all locations where the sidewalk intersects the curb in accordance with the current ODOT Standard Roadway Construction Drawing No. BP-7.1 - "Curb Ramps With Truncated Domes". The curb drop at each location shall be installed by the Contractor at the time of curb construction. The walk and ramps shall be installed by the Home Builder, unless otherwise noted for installation by the Contractor.

7. EXISTING SEWERS

The Contractor shall conduct his operations so as to maintain storm sewer flows at all times and shall promptly replace in kind any storm sewers disturbed by construction to the satisfaction of the City of Perrysburg. The cost of making inspections and any repairing or correcting of sewers as a result of construction operations shall be included in the unit price for the pertinent bid item.

8. UNDERGROUND UTILITIES AND ADJUSTMENTS

The location of existing utilities shown on these plans is approximate. The exact location shall be verified by the Contractor. The Contractor shall notify each respective utility company at least seven (7) days prior to the time of construction. Any and all adjustments or extensions required for public or private utilities will be done by and at the expense of their respective owners, unless otherwise noted on the plans.

9. UTILITY OWNERSHIP

The following is a list of the owners of utilities that may be within the limits of construction.

Waterville Gas & Oil
11 N. River Road
Waterville, Ohio 43566
Phone: 419-878-4972

Buckeye Cablesystem
5566 Southwyck Boulevard
Toledo, Ohio 43614
Phone: 419-724-9810

Northwestern Water & Sewer District
12560 Middleton Pike
Bowling Green, OH 43402
Phone: 419-354-9090

Columbia Gas of Ohio
Toledo Engineering Group
2901 E. Manhattan Blvd.
Toledo, OH 43611
Phone: 419-539-6066

Columbia Pipeline Group/Transcanada
Findlay, Ohio
Phone: 419-722-1888

AT&T
130 North Erie St.
Toledo, Ohio 43604
Phone: 419-245-7023

Toledo Edison Company
6099 Angola Road
Holland, Ohio 43528
Phone: 419-249-5900

Ohio Utilities Protection Agency
1-800-362-2764

City of Perrysburg
201 W. Indiana Ave.
Perrysburg, Ohio 43551
Phone: 419-872-8050 (WPC Division)
Phone: 419-872-8020 (Water Division)
Phone: 419-872-7880 (Engineering)

10. SEEDING, MULCHING AND FERTILIZING

All areas within right-of-way lines, the rear yard drainage swales, and the pond area above the aggregate slope protection shall be seeded, mulched and fertilized in accordance with ODOT Item 659 using the seed mixture as follows: 90% perennial ryegrass (loliium perenne) 10% alsike clover (trifolium hybridum).

11. MAINTENANCE OF TRAFFIC

Two-way traffic shall be maintained at all times on dedicated roads. If construction along dedicated roads interferes with traffic, the Contractor shall provide at least two flaggers and other traffic control devices in accordance with the Ohio Manual of Uniform Traffic Control Devices for Streets and Highways. During periods of road closure on Fort Meigs Road, all signage for road closure and detour route to be included in Item Spec. Maintaining Traffic.

12. SUBGRADE IMPROVEMENT, UNDERCUT & BACKFILL WITH STONE

A contingency of 700 cubic yards of subgrade improvement has been carried to the general summary for use as directed by the City of Perrysburg. A minimum undercut shall be 6". Acceptable stone materials will be Number 1 and Number 2 size aggregate and ODOT Item 304 - Aggregate Base. Compaction shall be equal to or exceeding 95% of maximum modified Proctor dry unit weight (ASTM D-1557).

13. UNDERDRAINS

A contingency quantity of 1000 lineal feet of Item 605, 6" Shallow Pipe Underdrains, has been carried to the General Summary for use as directed by the City of Perrysburg. Although the Contractor may choose to order and/or purchase this item for his convenience, only the amount actually placed as directed by the City of Perrysburg will be included for pavement.

14. STAKING RESPONSIBILITY

Initial construction staking for the project, including the sanitary sewer and waterline, will be provided by Feller, Finch & Associates, Inc. Three (3) days advance notice shall be provided for the requested staking. Any restaking of damaged initial staking will be performed at the expense of the contractor.

15. EXCAVATION AND EMBANKMENT, AS PER PLAN

The price bid for Item 203, Excavation, as per plan, and Item 203, Embankment, as per plan, shall be full compensation to successfully complete all excavation and embankment operations as indicated on the site grading plan and by the plan cross sections (See site volume table on Sheet 7). The Contractor shall accept the plan quantities as determined by the Engineer for payment. The burden of proof for a plan quantity discrepancy shall be on the Contractor. Fill material required to complete the site grading shall be obtained from the excess sewer and waterline trench excavation dirt; and the pond excavation dirt. All excess excavated material shall be placed on site as directed by the Owner.

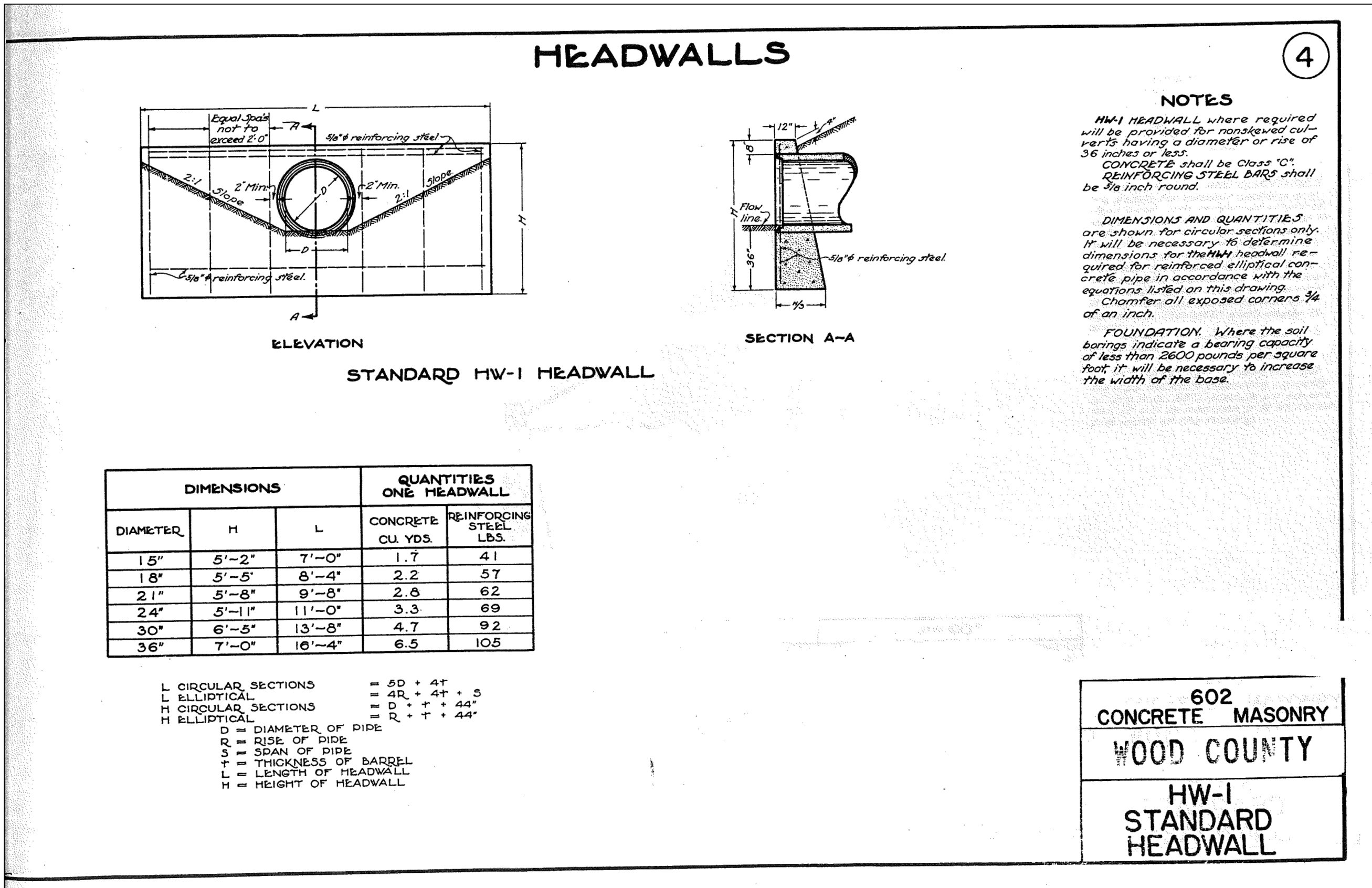
Topsoil shall be removed from all roadway areas. Based on a topsoil thickness of 6", an estimated quantity of 250 cubic yards has been included in the excavation and embankment quantities for additional removal and replacement of topsoil in all areas where the bottom of the aggregate base course is above the existing ground surface.

The excavated on-site soils that are free of organic matter, excessive moisture, rock or stone fragments larger than three inches in diameter and debris may be used as fill material. Fill material should not be frozen nor be placed on a frozen base. The fill material required to achieve the design elevations should be placed in uniform loose layers of not more than eight (8) inches in thickness. Compaction of embankment areas shall be at least 100% as determined by the Standard Proctor Test. Suitable embankment materials also include ODOT Item 703.11 Type 1.

16. LAWN FERTILIZER REQUIREMENTS

The lawn installer shall certify that fertilizer application rates will not be applied in excess of Phosphorus loading rate necessary to establish a new lawn.

One year after completion of construction, landscaping maintenance provider is required to certify that fertilizer application rates did not exceed the Phosphorus loading rate necessary to establish new lawn and landscaping.

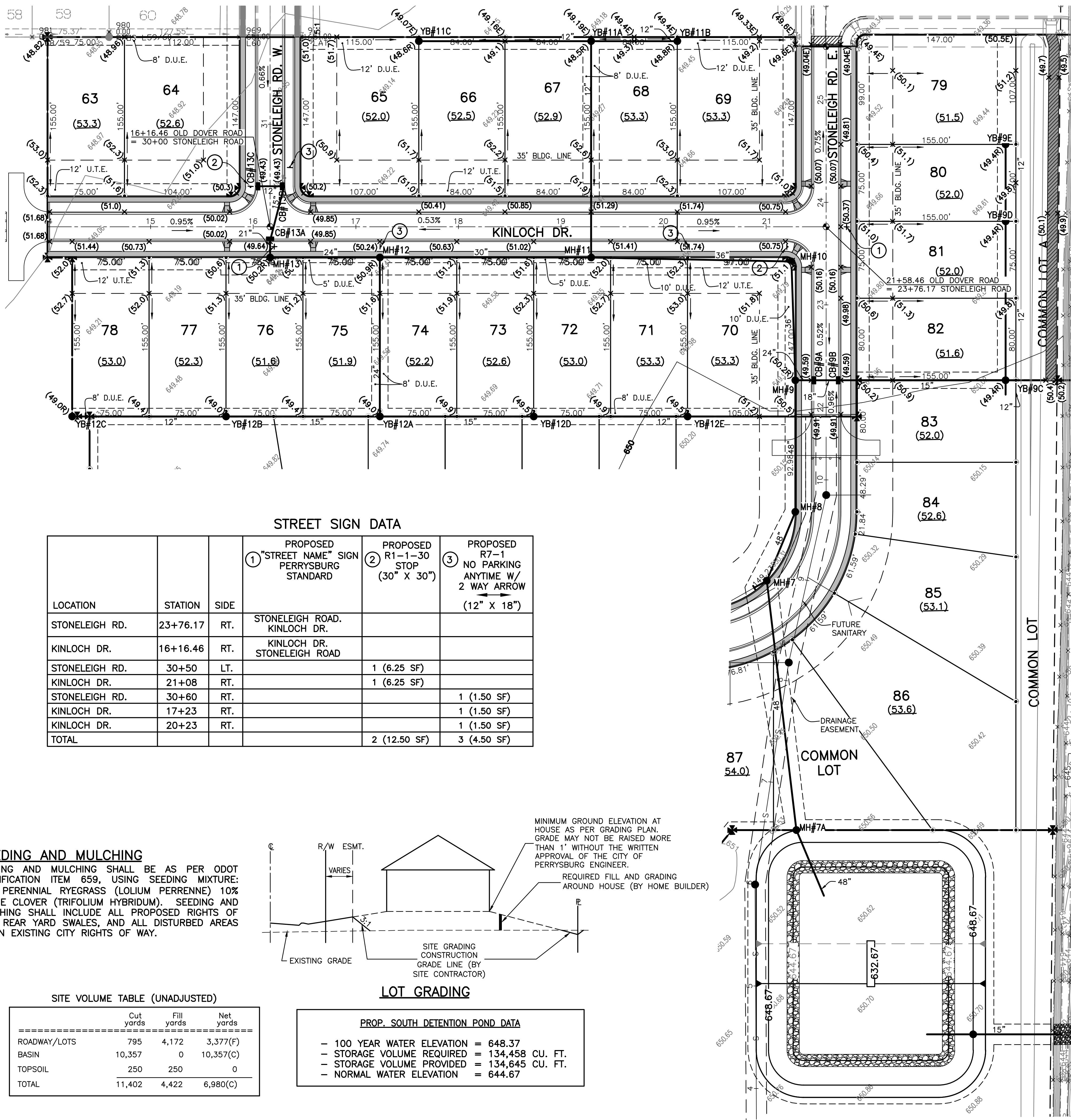


RECORD CONSTRUCTION 8/19/24

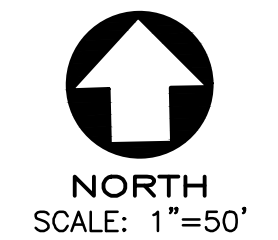
FELLER, FINCH & ASSOCIATES, INC.			
REVISION	DATE	DESIGN BY:	AMF
1	4/23/24	DRAWN BY:	AMF
YBSC-YBSC		DATE:	11-16-21
		CHK'D BY:	GNF
		DRAWING:	10-08869P03A1

GENERAL SUMMARY

ITEM	QTY.	UNIT	DESCRIPTION
ROADWAY			
201	LUMP	LUMP	CLEARING AND GRUBBING
202	58	FT.	STANDARD GUARDRAIL BARRICADE, REMOVE FOR RE-USE
202	44	SQ. YDS.	PAVEMENT REMOVED
202	36	FT.	CURB AND GUTTER REMOVED
203	11,402	CU. YDS.	EXCAVATION, AS PER PLAN
203	4,422	CU. YDS.	EMBANKMENT, AS PER PLAN
204	4,443	SQ. YDS.	SUBGRADE COMPACTION
623	2	EACH	MONUMENT ASSEMBLY (O.D.O.T. STD. DWG RM-1.1)
606	58	FT.	STD. GUARDRAIL BARRICADE, REBUILT
608	11,949	SQ. FT.	4" AND 6" CONCRETE WALK (BY OTHERS)
608	12	EACH	CURB RAMPS (BY OTHERS)
PAVEMENT			
304	1,270	CU. YDS.	AGGREGATE BASE
449	246	CU. YDS.	ASPHALT CONCRETE, INTERMEDIATE COURSE, PG 64-22
449	171	CU. YDS.	ASPHALT CONCRETE, SURFACE COURSE, PG 64-22
407	205	GALLONS	TACK COAT
601	38	CU. YDS.	ROCK CHANNEL PROTECTION, TYPE C W/O FILTER
602	1.7	CU. YDS.	CONCRETE MASONRY (1 HEADWALL)
609	2,495	FT.	MOUNTABLE CURB AND GUTTER, WOOD COUNTY TYPE F
SPEC.	700	CU. YDS.	SUBGRADE IMPROVEMENT, AS PER PLAN (CONTINGENCY)
DRAINAGE			
611	44	FT.	6" CONDUIT, TYPE B, AS PER PLAN
611	66	FT.	12" CONDUIT, TYPE B, AS PER PLAN
611	60	FT.	15" CONDUIT, TYPE B, AS PER PLAN
611	27	FT.	18" CONDUIT, TYPE B, AS PER PLAN
611	5	FT.	21" CONDUIT, TYPE B, AS PER PLAN
611	5	FT.	24" CONDUIT, TYPE B, AS PER PLAN
611	44	FT.	48" CONDUIT, TYPE B, AS PER PLAN
611	455	FT.	6" CONDUIT, TYPE C, AS PER PLAN
611	958	FT.	12" CONDUIT, TYPE C, AS PER PLAN
611	576	FT.	15" CONDUIT, TYPE C, AS PER PLAN
611	118	FT.	21" CONDUIT, TYPE C, AS PER PLAN
611	166	FT.	24" CONDUIT, TYPE C, AS PER PLAN
611	206	FT.	30" CONDUIT, TYPE C, AS PER PLAN
611	311	FT.	36" CONDUIT, TYPE C, AS PER PLAN
611	485	FT.	48" CONDUIT, TYPE C, AS PER PLAN
611	1	EACH	SHALLOW STORM MANHOLE (4' DIA.)
611	5	EACH	SHALLOW STORM MANHOLE (5' DIA.)
611	2	EACH	SHALLOW STORM MANHOLE (6' DIA.)
611	5	EACH	CURB INLET
611	11	EACH	YARD CATCH BASIN
605	1,000	FT.	6" SHALLOW PIPE UNDERDRAINS, AS PER PLAN (CONTINGENCY)
SIGNING AND STRIPING			
630	12.50	SQ. FT.	SIGN, FLAT SHEET, TYPE G
630	4.50	SQ. FT.	SIGN, FLAT SHEET, TYPE STD.
630	84	FT.	GROUND MOUNTED SUPPORT NO. 3 POST
SOIL EROSION & SEDIMENT CONTROL			
832	504	FT.	INLET PROTECTION FILTER (OR APPROVED EQUAL)
832	2,674	FT.	FILTER FABRIC FENCE
SPEC.	5	EACH	CURB INLET SEDIMENT FILTER
SPEC.	1	EACH	GRAVEL CONSTRUCTION ENTRANCE
659	6,900	SQ. YD.	SEEDING & MULCHING (R/W AND SWALES)
659	29,072	SQ. YD.	CONSTRUCTION SEEDING & MULCHING (LOT AREAS-BY OTHERS)
659	0.62	TONS	COMMERCIAL FERTILIZER (12-12-12) (20 LBS./1,000 SQ. FT.)
SPEC.	LUMP	LUMP	CONCRETE WASHOUT AREA
SPEC.	LUMP	LUMP	Basin Outlet Structure
SPEC.	LUMP	LUMP	FAIRCLOTH SKIMMER
ASPHALT PATH			
204	450	SQ. YD.	SUBGRADE COMPACTION
304	125	CU. YDS.	AGGREGATE BASE
449	19	CU. YDS.	ASPHALT CONCRETE, INTERMEDIATE COURSE, PG 64-22
449	14	CU. YDS.	ASPHALT CONCRETE, SURFACE COURSE, PG 64-22
407	19	GALLONS	TACK COAT



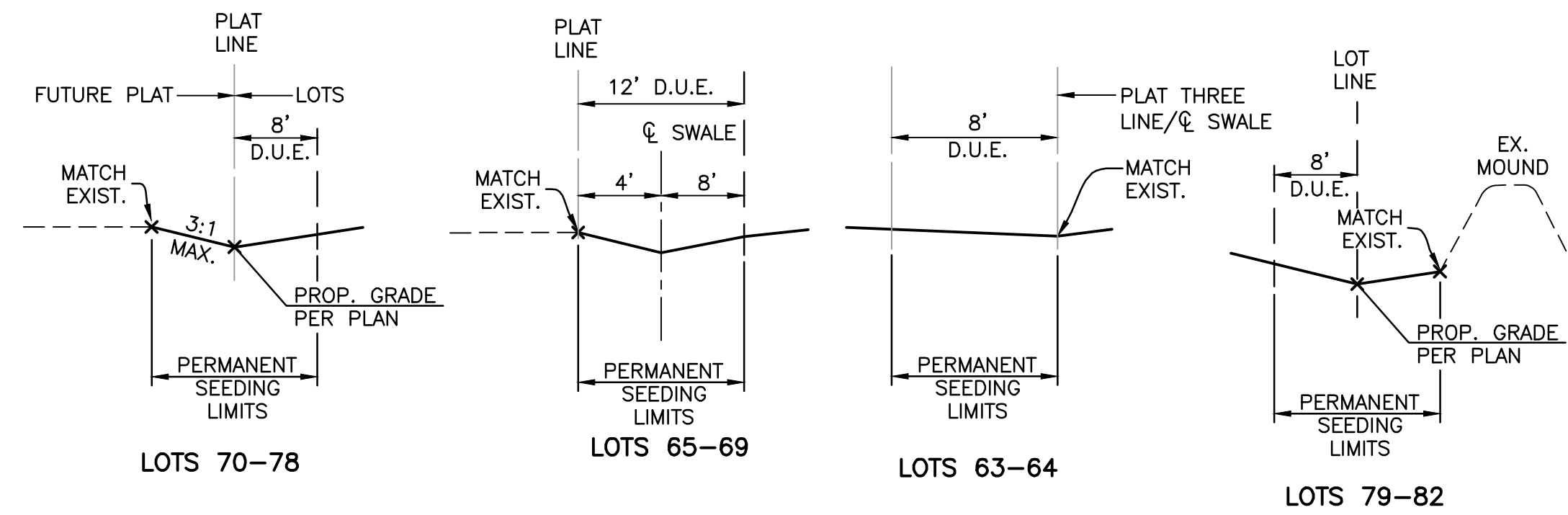
EASEMENT ABBREVIATIONS			
S.E.	SANITARY	EASEMENT	
D.U.E.	DRAINAGE & UTILITY	EASEMENT	
U.T.E.	UTILITY & TOLEDO EDISON	EASEMENT	



FELLER, FINCH & ASSOCIATES, INC.			
REVISION	DATE	DESIGN BY:	AMF
		DRAWN BY:	AMF
		CHECKED BY:	GNF
		DRAWING NO:	10-08869D03A1

BENCH MARK DATA

WOOD COUNTY BENCH MARK
MCO668 USGS SURVEY DISC IN CONCRETE MONUMENT
SOUTHWEST CORNER OF THE INTERSECTION OF HULL
PRAIRIE ROAD & FIVE POINT ROAD.
ELEVATION 650.10
SITE BENCH #201
MAG NAIL SET IN WEST FACE OF 2ND POWER POLE SOUTH
OF ROACHTON ROAD ON FORT MEIGS ROAD.
ELEVATION 651.45
SITE BM #202
MAG NAIL SET IN WEST FACE OF 1ST POWER POLE NORTH
OF FIVE POINT ROAD ON FORT MEIGS ROAD.
ELEVATION 653.08



REAR YARD DRAINAGE SWALES

REAR YARD DRAINAGE SWALES SHALL BE GRADED AT THE
TIME OF ROADWAY GRADING. SWALES SHALL BE SEEDED,
MULCHED AND FERTILIZED AS SOON AS WEATHER PERMITS.

NOTE:
THE HOME BUILDER SHALL INSTALL
AND MAINTAIN A "GRAVEL
CONSTRUCTION ENTRANCE" TO
CONTROL THE TRACKING OF DEBRIS
ONTO PUBLIC ROADS. IT SHALL
CONSIST OF A MINIMUM OF 6" OF
2" TO 3" SIZE STONE, 20 FEET
WIDE AND 40 FEET IN LENGTH.

SITE ZONING DATA	
LOCATION:	CITY OF PERRYSBURG
ZONING CLASSIFICATION:	R-3
MINIMUM SETBACKS:	
FRONT	- 35'
SIDE	- 8' MIN.
SUM OF SIDES	- 20'
REAR	- 35'

LEGEND

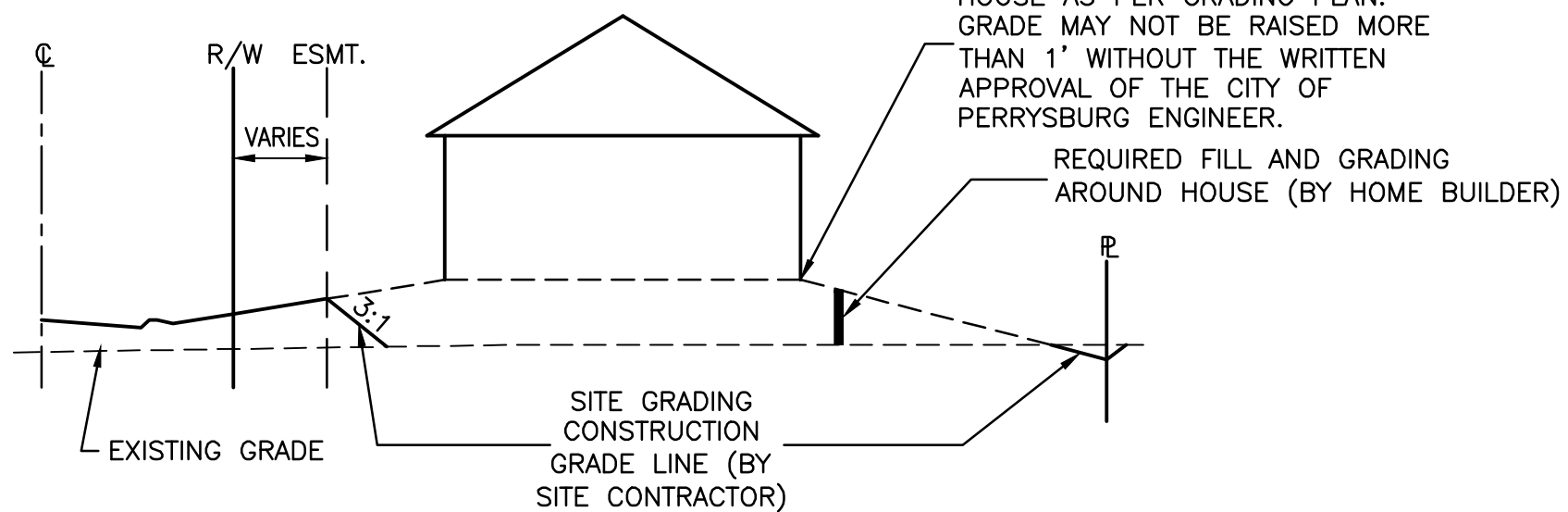
- EXISTING GROUND ELEVATIONS
- EXISTING CONTOURS
- PROPOSED ELEVATIONS
- PROPOSED GROUND ELEVATIONS AT HOUSE
- PROPOSED = EXISTING
- PROPOSED TOP OF WALK ELEVATIONS
- PROPOSED RIM ELEVATIONS
- ADD 600.00 TO ALL PROPOSED SPOT ELEVATIONS.
- ALL PAVEMENT GRADES ARE TOP OF CURB.
- IRON PIN (BY SURVEYOR)
- MONUMENT ASSEMBLY (ODOT RM-1.1) BY CONTRACTOR
- EXISTING MONUMENT ASSEMBLY
- MONUMENT ASSEMBLY (WOOD COUNTY, TYPE A) BY SURVEYOR
- CONCRETE WALK & RAMPS BY OTHERS.
- CONCRETE WALK BY CONTRACTOR.
- 10' WIDE ASPHALT PATH BY CONTRACTOR.

STREET SIGN DATA

LOCATION	STATION	SIDE	PROPOSED "STREET NAME" SIGN PERRYSBURG STANDARD	PROPOSED R1-1-30 STOP (30" X 30")	PROPOSED R7-1 NO PARKING ANYTIME W/ 2 WAY ARROW (12" X 18")
STONELEIGH RD.	23+76.17	RT.	STONELEIGH RD. KINLOCH DR.		
KINLOCH DR.	16+16.46	RT.	KINLOCH DR. STONELEIGH ROAD		
STONELEIGH RD.	30+50	LT.		1 (6.25 SF)	
KINLOCH DR.	21+08	RT.		1 (6.25 SF)	
STONELEIGH RD.	30+60	RT.			1 (1.50 SF)
KINLOCH DR.	17+23	RT.			1 (1.50 SF)
KINLOCH DR.	20+23	RT.			1 (1.50 SF)
TOTAL				2 (12.50 SF)	3 (4.50 SF)

SEEDING AND MULCHING

SEEDING AND MULCHING SHALL BE AS PER ODOT
SPECIFICATION ITEM 659, USING SEEDING MIXTURE:
90% PERENNIAL RYEGRASS (LOLIUM PERRENNE) 10%
ALSIKE CLOVER (TRIFOLIUM HYBRIDUM). SEEDING AND
MULCHING SHALL INCLUDE ALL PROPOSED RIGHTS OF
WAY, REAR YARD SWALES, AND ALL DISTURBED AREAS
WITHIN EXISTING CITY RIGHTS OF WAY.

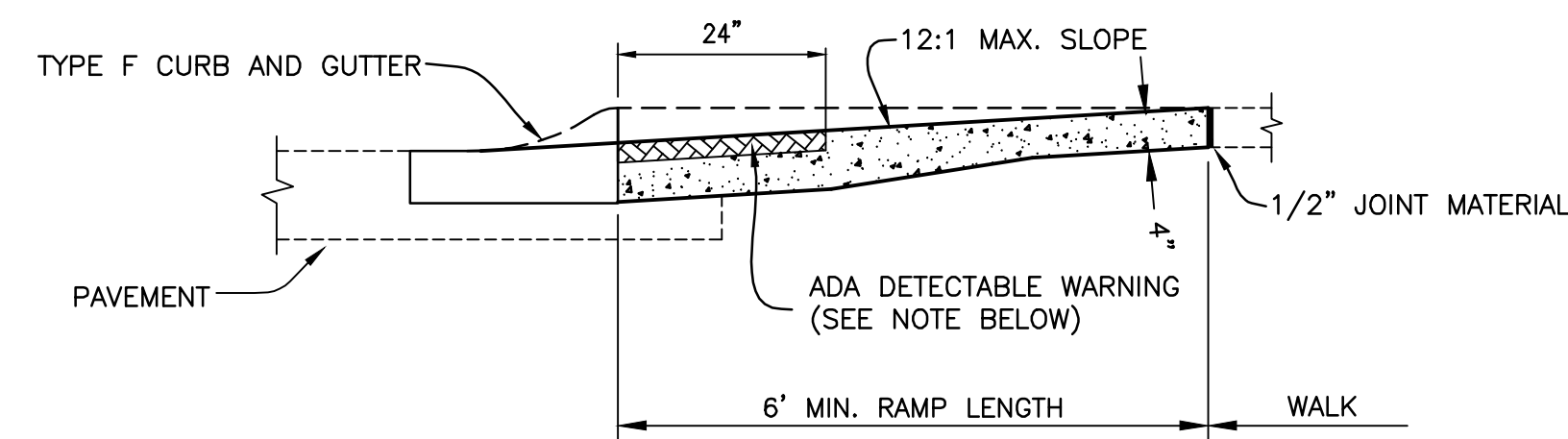


LOT GRADING

PROP. SOUTH DETENTION POND DATA	
- 100 YEAR WATER ELEVATION	= 648.37
- STORAGE VOLUME REQUIRED	= 134,458 CU. FT.
- STORAGE VOLUME PROVIDED	= 134,645 CU. FT.
- NORMAL WATER ELEVATION	= 644.67

SITE VOLUME TABLE (UNADJUSTED)

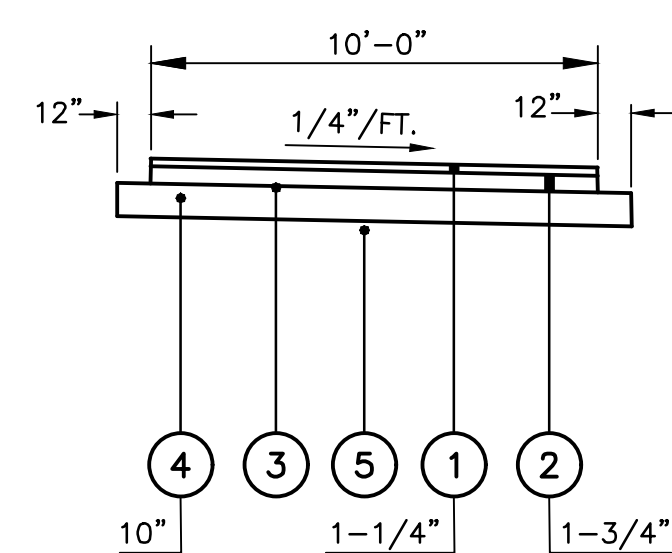
	Cut yards	Fill yards	Net yards
ROADWAY/LOTS	795	4,172	3,377(F)
BASIN	10,357	0	10,357(C)
TOPSOIL	250	250	0
TOTAL	11,402	4,422	6,980(C)



PEDESTRIAN RAMP DETAIL

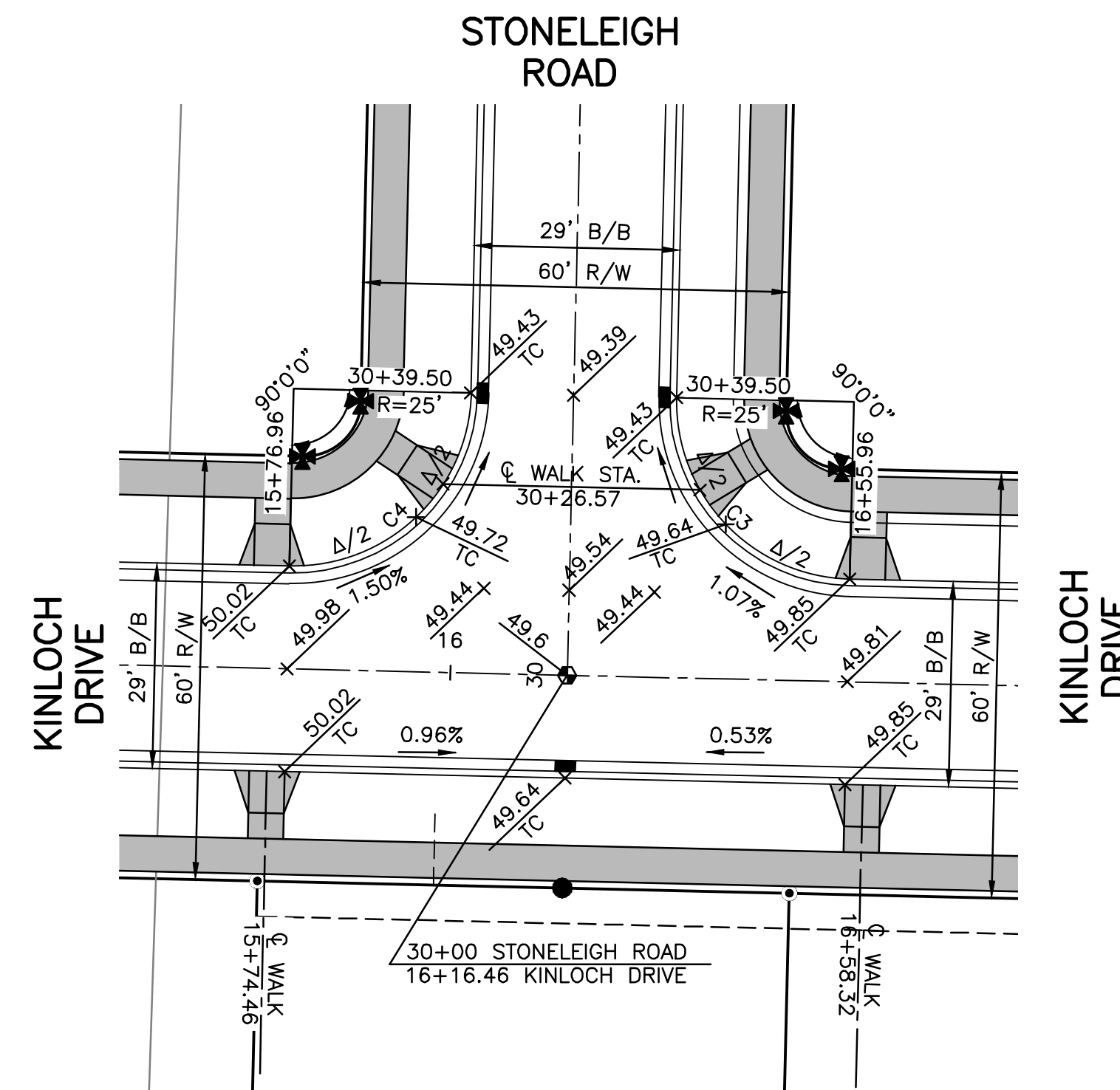
ADA DETECTABLE WARNING

THE CONTRACTOR SHALL INSTALL DETECTABLE WARNINGS ON WALKING SURFACES OF EACH CURB RAMP ACCORDING TO SECTION 4.29.2 OF THE ADA ACCESSIBILITY GUIDELINES FOR BUILDING AND FACILITIES. DETECTABLE WARNINGS SHALL BE 2' X 4' AND BE INSTALLED AGAINST THE BACK OF CURB. THE DETECTABLE WARNINGS SHALL BE PER ODOT BP-7.1 AND CITY OF PERRYSBURG SPECIFICATIONS PER NOTE 2.7 ON SHEET 2.



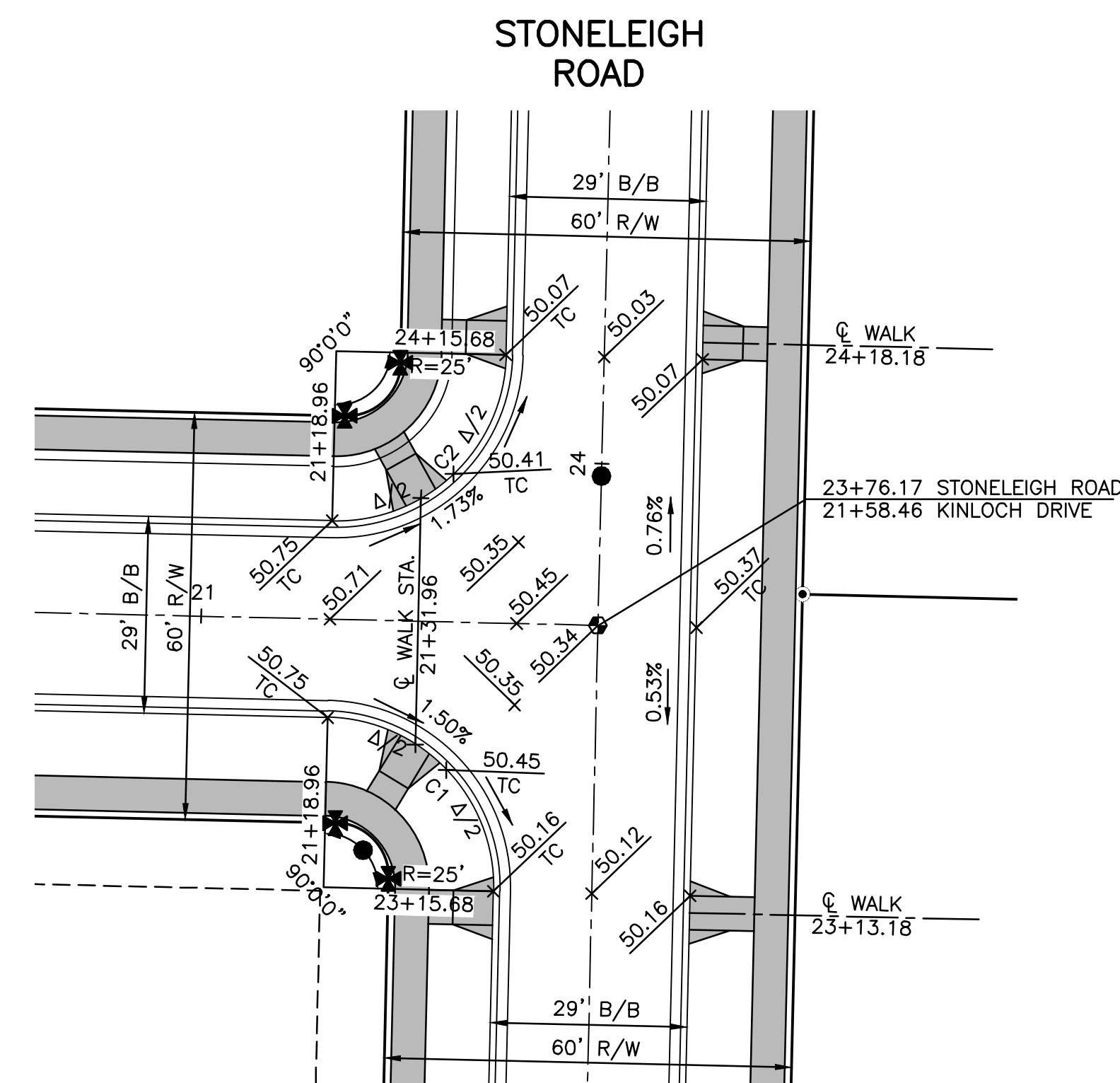
TYPICAL 10 FT. WIDE ASPHALT PATH SECTION

SCALE: NTS



KINLOCH DRIVE

BACK OF CURB CURVE DATA					
CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING	CENTRAL ANGLE
C1	25.00'	39.27'	35.36'	S 43°40'25" E	90°00'00"
C2	25.00'	39.27'	35.36'	N 46°19'35" E	90°00'00"
C3	25.00'	39.27'	35.36'	S 43°40'25" E	90°00'00"
C4	25.00'	39.27'	35.36'	S 46°19'35" W	90°00'00"



STONELEIGH ROAD

NOTES:

ALL RADII AND DIMENSIONS ARE TO BACK OF CURB.

ALL ELEVATIONS ARE TOP OF PAVEMENT UNLESS OTHERWISE NOTED.

ADD 600.00 TO ALL ELEVATIONS.

TC = TOP OF CURB

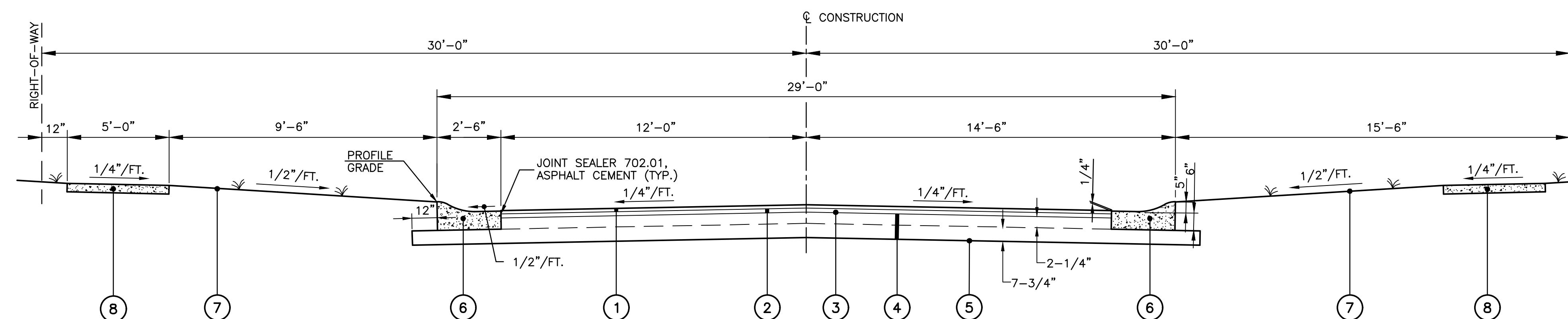
EP = EDGE OF PAVEMENT

■ = 5' WIDE CONCRETE WALK & RAMPS (BY OTHERS).

⊕ = ODOT RM 1.1 MONUMENT ASSEMBLY (BY CONTRACTOR)

● = MANHOLE

■ = CATCH BASIN



STONELEIGH ROAD (WEST), STA. 30+39.50 TO STA. 31+87.00 = 147.50 LIN. FT.
KINLOCH DRIVE, STA. 14+01.46 TO STA. 15+76.96 = 175.50 LIN. FT.
KINLOCH DRIVE, STA. 16+55.96 TO STA. 21+58.46 = 463.00 LIN. FT.
STONELEIGH ROAD (EAST), STA. 21+93.17 TO STA. 23+36.68 = 143.50 LIN. FT.
STONELEIGH ROAD (EAST), STA. 24+15.68 TO STA. 25+53.97 = 138.29 LIN. FT.

TOTAL = 1067.79 LIN. FT.

TYPICAL ROAD SECTION
N.T.S.

TYPICAL SECTION LEGEND

- | | | |
|---|----------|--|
| ① | ITEM 449 | 1-1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG 64-22 |
| ② | ITEM 449 | 2-1/2" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG 64-22 |
| ③ | ITEM 407 | TACK COAT @ 0.05 GAL./SQ. YD. |
| ④ | ITEM 304 | 10" AGGREGATE BASE, AS PER PLAN (2 COURSES) |
| ⑤ | ITEM 204 | SUBGRADE COMPACTION |
| ⑥ | ITEM 609 | MOUNTABLE CURB AND GUTTER, WOOD COUNTY TYPE F |
| ⑦ | ITEM 659 | SEEDING AND MULCHING; COMMERCIAL FERTILIZER (20 LBS. PER 1000 SQ. FT.) |
| ⑧ | ITEM 608 | 4" CONCRETE WALK, 6" AT DRIVES (BY OTHERS) |

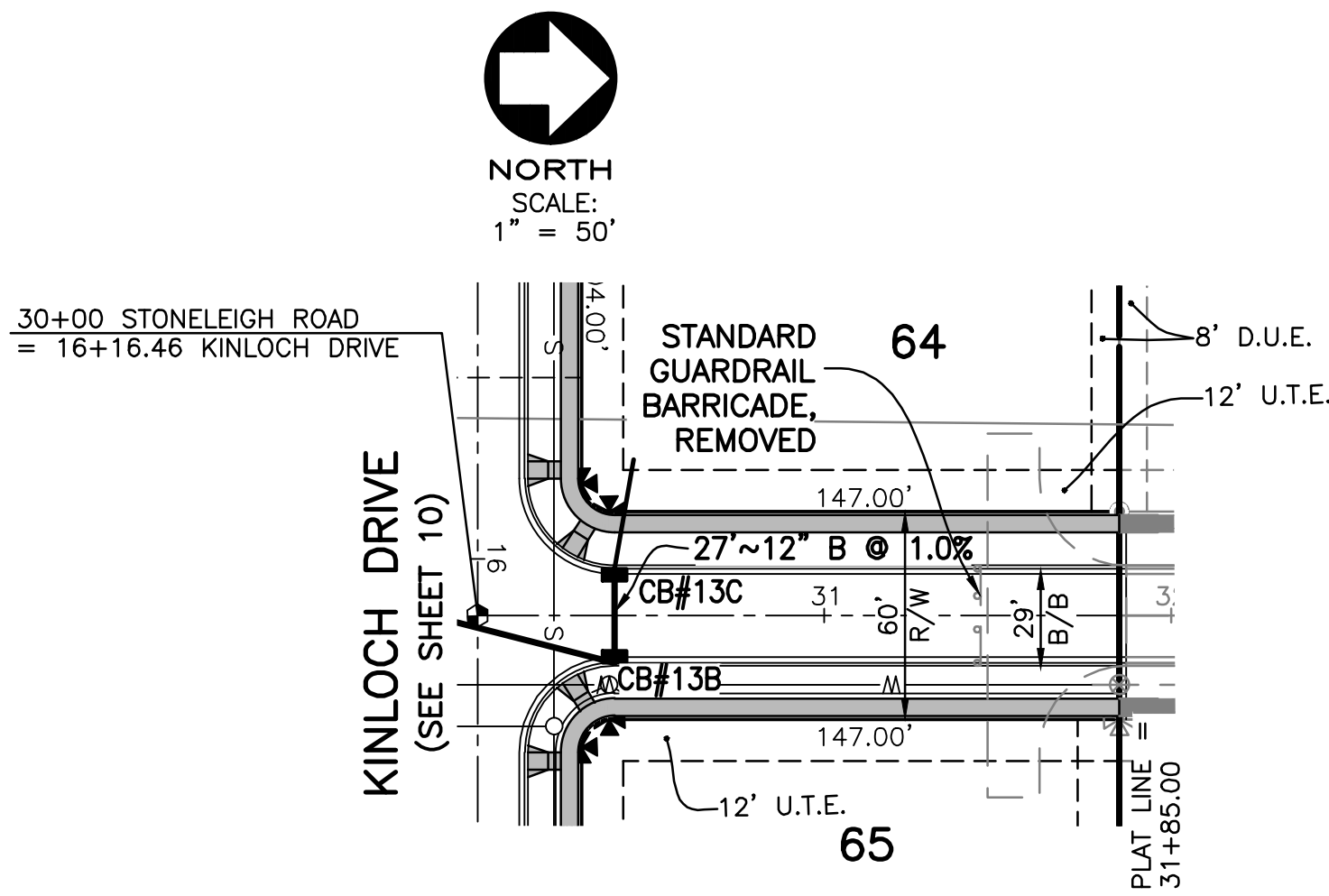
EASEMENT ABBREVIATIONS	
S.E.	SANITARY EASEMENT
D.U.E.	DRAINAGE & UTILITY EASEMENT
U.T.E.	UTILITY & TOLEDO EDISON EASEMENT

FELLER, FINCH & ASSOCIATES, INC.			
REVISION	DATE	DESIGN BY:	AMF
		DRAWN BY:	AMF
		DATE:	11-16-21
		CHK'D BY:	GNF
		DRAWING NO.	088690P04A1-AE

STORM SERVICE TAP DATA

LOT 64
0+00 (30+45.00, 45' LT.)
32'~6" (5'B, 27'C) @ 1.0%
FL 6" = 646.70

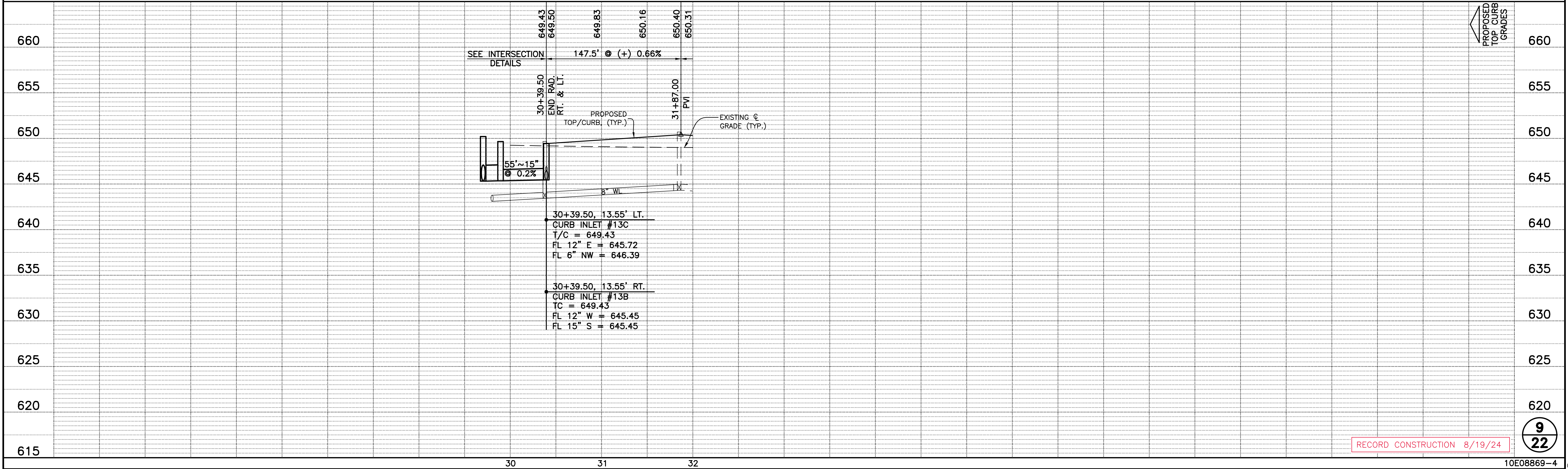
NOTE:
THE MAIN CONSTRUCTION
ENTRANCE FOR PLAT FOUR WILL
BE OFF PLAT ONE (STONELEIGH RD
EAST). KEEP STONELEIGH ROAD
(WEST) BLOCKED DURING
CONSTRUCTION OF PLAT FOUR.



MANHOLE NOTES:

1. ALL STORM MANHOLES SHALL BE SHALLOW MANHOLES PER THE DETAILS ON SHEET 5.
2. THE DIAMETER OF THE SHALLOW STORM MANHOLES SHALL BE AS INDICATED IN THE PROFILE BELOW.
3. THE FLAT SLAB TOP OF THE SHALLOW STORM MANHOLES SHALL BE ORIENTED TO PLACE THE LID AWAY FROM THE STREET CENTERLINE & OUT OF THE PROPOSED SIDEWALK.

STONELEIGH ROAD
(WEST)

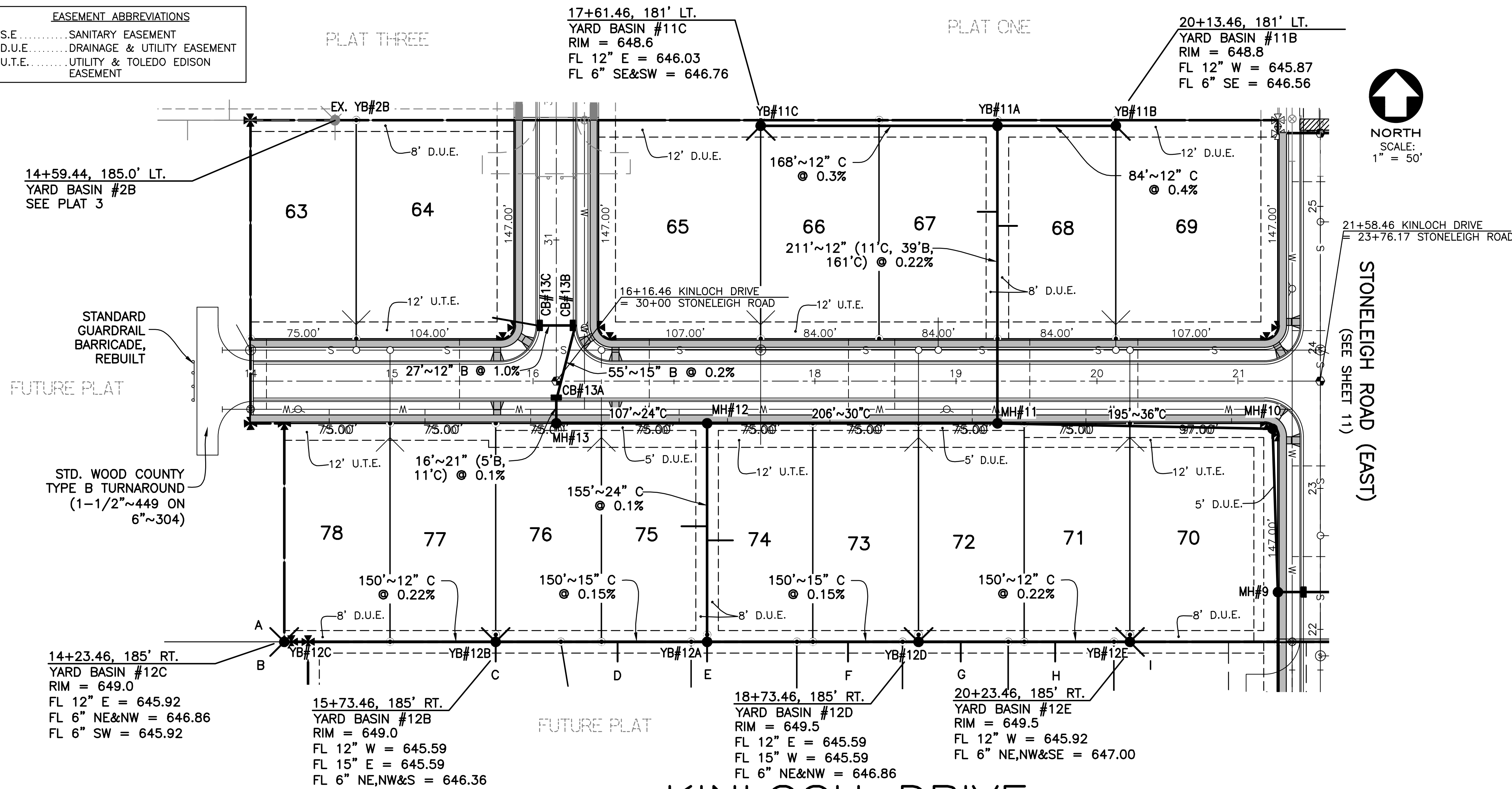


RECORD CONSTRUCTION 8/19/24

EASEMENT ABBREVIATIONS	
S.E.	SANITARY EASEMENT
D.U.E.	DRAINAGE & UTILITY EASEMENT
U.T.E.	UTILITY & TOLEDO EDISON EASEMENT

PLAT THREE

PLAT ONE

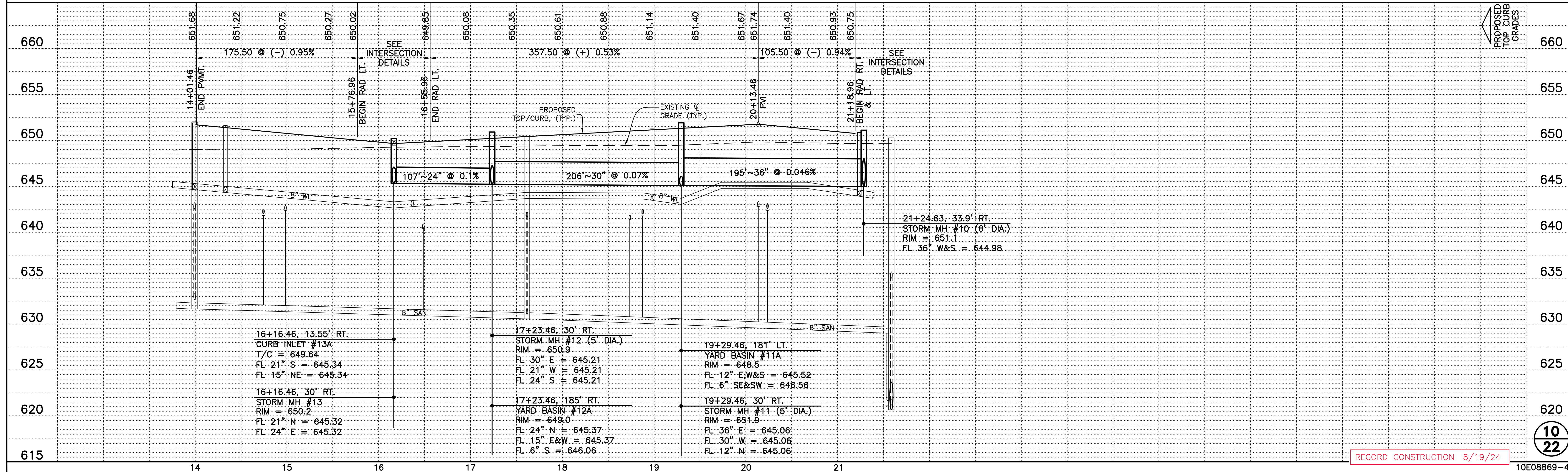


STORM SERVICE TAP DATA

LOT 63 0+00 (14+59.46±, 173.8'± LT.) EX. 14'~6" C @ 1.0% EX. FL 6" = 646.17±	LOT 73 0+00 (18+63.56, 175.1' RT.) 14'~6" C @ 1.0% FL 6" = 647.00	ST. TAP C 0+00 (15+73.46, 199' RT.) 14'~6" C @ 1.0% FL 6" = 646.50
LOT 65 0+00 (17+51.56, 171.1' LT.) 14'~6" C @ 1.0% FL 6" = 646.90	LOT 74 0+83 6" ON 24" TEE 14'~6" C @ 1.0% FL 6" = 646.19	ST. TAP D 0+63.43 6" ON 15" TEE 14'~6" C @ 1.0% FL 6" = 645.98
LOT 66 0+00 (17+71.36, 171.1' LT.) 14'~6" C @ 1.0% FL 6" = 646.90	LOT 75 0+73 6" ON 24" TEE 14'~6" C @ 1.0% FL 6" = 646.18	ST. TAP E 0+00 (17+23.46, 199' RT.) 14'~6" C @ 1.0% FL 6" = 646.20
LOT 67 1+50 6" ON 12" TEE 14'~6" C @ 1.0% FL 6" = 645.79	LOT 76 0+00 (15+83.36, 175.1' RT.) 14'~6" C @ 1.0% FL 6" = 646.50	ST. TAP F 1+00 6" ON 15" TEE 14'~6" C @ 1.0% FL 6" = 646.04
LOT 68 1+40 6" ON 12" TEE 14'~6" C @ 1.0% FL 6" = 645.77	LOT 77 0+00 (15+63.56, 175.1' RT.) 14'~6" C @ 1.0% FL 6" = 646.50	ST. TAP G 0+30 6" ON 12" TEE 14'~6" C @ 1.0% FL 6" = 646.06
LOT 69 0+00 (20+23.36, 171.1' LT.) 14'~6" C @ 1.0% FL 6" = 646.70	LOT 78 0+00 (14+33.36, 175.1' RT.) 14'~6" C @ 1.0% FL 6" = 647.00	ST. TAP H 0+97 6" ON 12" TEE 14'~6" C @ 1.0% FL 6" = 646.20
LOT 70 0+00 (20+33.36, 175.1' RT.) 14'~6" C @ 1.0% FL 6" = 647.14	ST. TAP A 0+00 (14+13.56, 175.1' RT.) 14'~6" C @ 1.0% FL 6" = 647.00	ST. TAP I 0+00 (20+33.36, 194.9' RT.) 14'~6" C @ 1.0% FL 6" = 647.14
LOT 71 0+00 (20+13.56, 175.1' RT.) 14'~6" C @ 1.0% FL 6" = 647.14	ST. TAP B 0+00 (14+13.56, 194.9' RT.) 14'~6" C @ 1.0% FL 6" = 646.07	
LOT 72 0+00 (18+83.36, 175.1' RT.) 14'~6" C @ 1.0% FL 6" = 647.00		

MANHOLE NOTES:

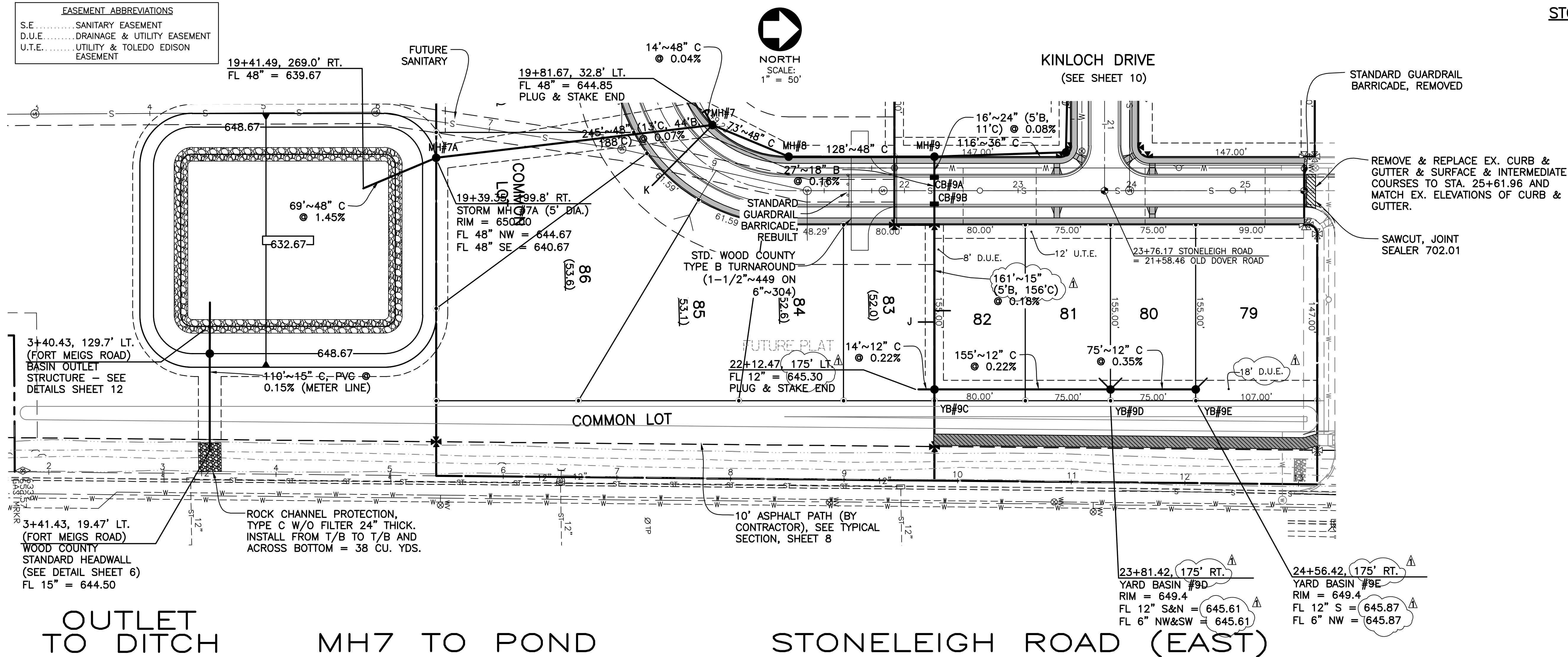
1. ALL STORM MANHOLES SHALL BE SHALLOW MANHOLES PER THE DETAILS ON SHEET 5.
2. THE DIAMETER OF THE SHALLOW STORM MANHOLES SHALL BE AS INDICATED IN THE PROFILE BELOW.
3. THE FLAT SLAB TOP OF THE SHALLOW STORM MANHOLES SHALL BE ORIENTED TO PLACE THE LID AWAY FROM THE STREET CENTERLINE & OUT OF THE PROPOSED SIDEWALK.



RECORD CONSTRUCTION 8/19/24

10E08869-4

<u>EASEMENT ABBREVIATIONS</u>	
S.E.....	SANITARY EASEMENT
D.U.E.....	DRAINAGE & UTILITY EASEMENT
U.T.E.....	UTILITY & TOLEDO EDISON EASEMENT



FELLER, FINCH & ASSOCIATES, INC.		
REVISION	DATE	DESIGN BY: AMF
YB9C-YB9E	4/23/24	DRAWN BY: AMF
REVISION		DATE: 11-16-21
		CHK'D BY: GNF
		DRAWING ID-08869DP041-A

LOT 79
0+00 (24+66.31, 165.1' RT.)
14'~6" C ● 1.0%
FL 6" = 646.01

LOT 80
0+00 (23+91.29, 165.1' RT.)
14'~6" C ● 1.0%
FL 6" = 645.75

LOT 81
0+00 (23+71.52, 165.1' RT.)
14'~6" C ● 1.0%
FL 6" = 645.75

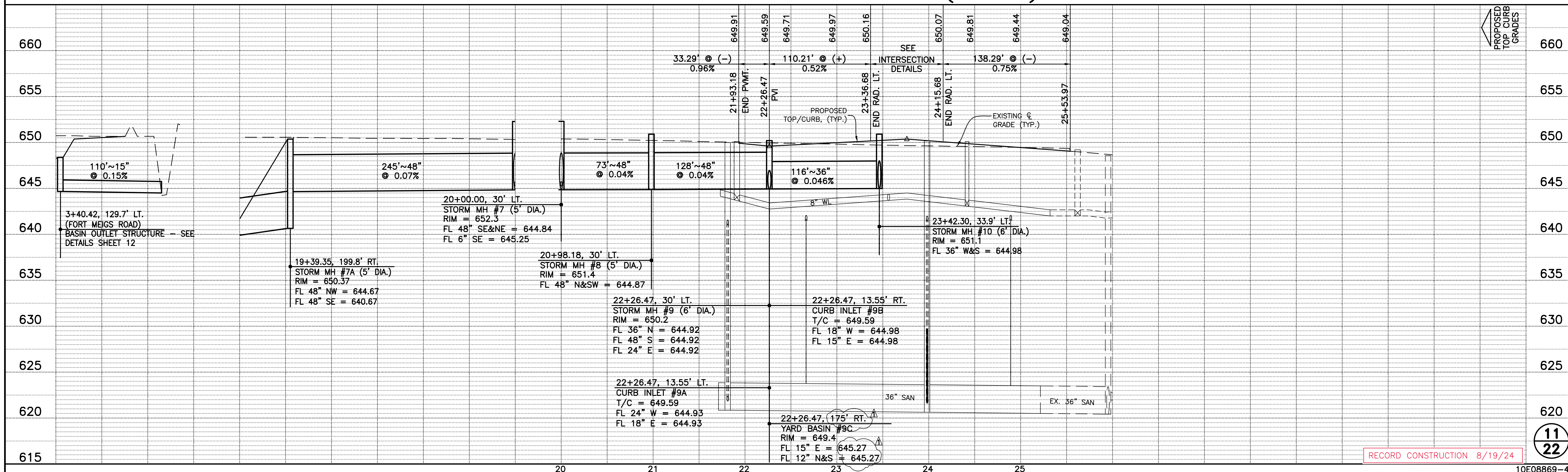
LOT 82
0+92
6" ON 15" TEE
14'~6" C ● 1.0%
FL 6" = 645.66

ST. TAP J
1+02
6" ON 15" TEE
14'~6" C ● 1.0%
FL 6" = 645.68

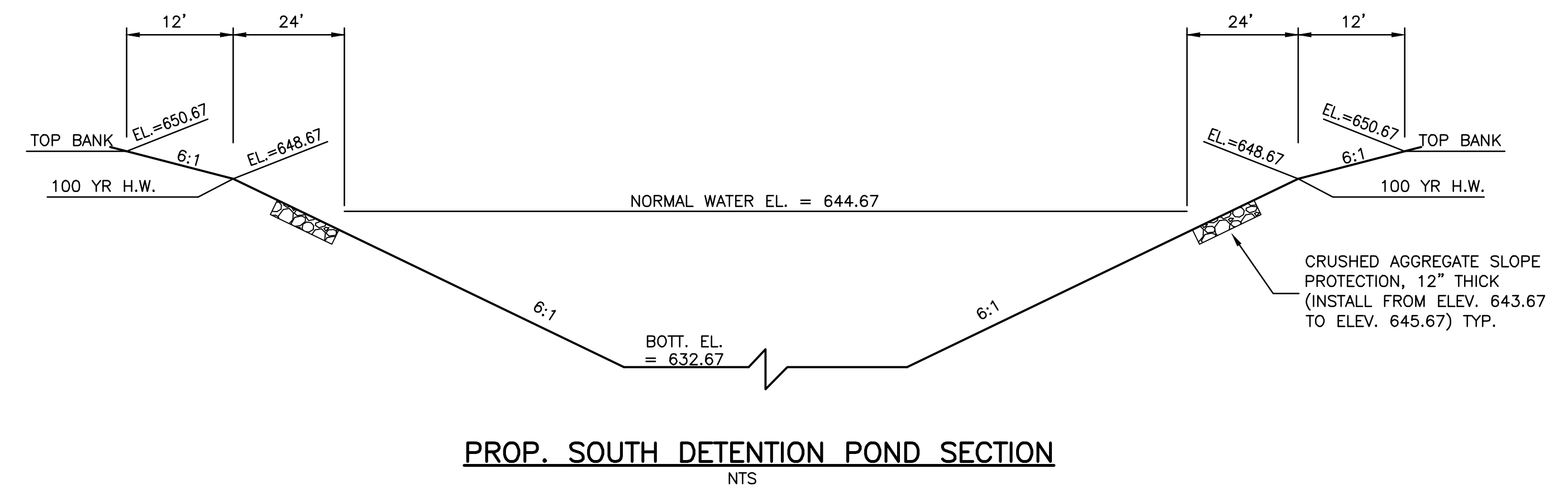
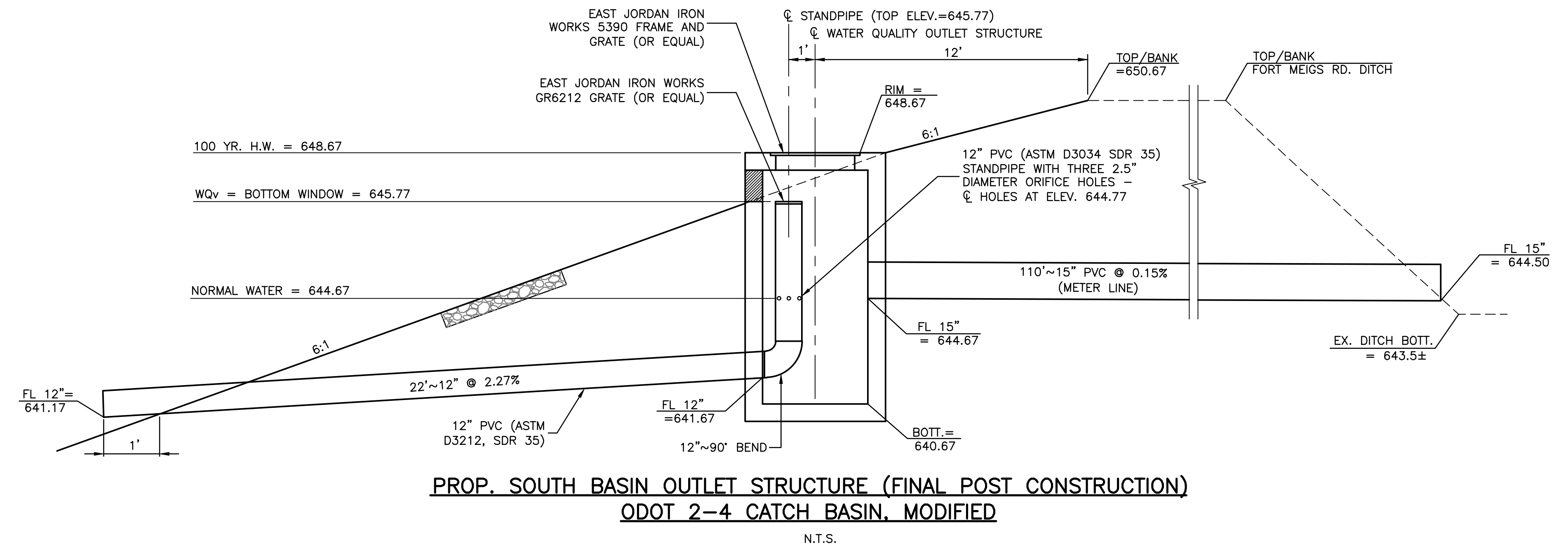
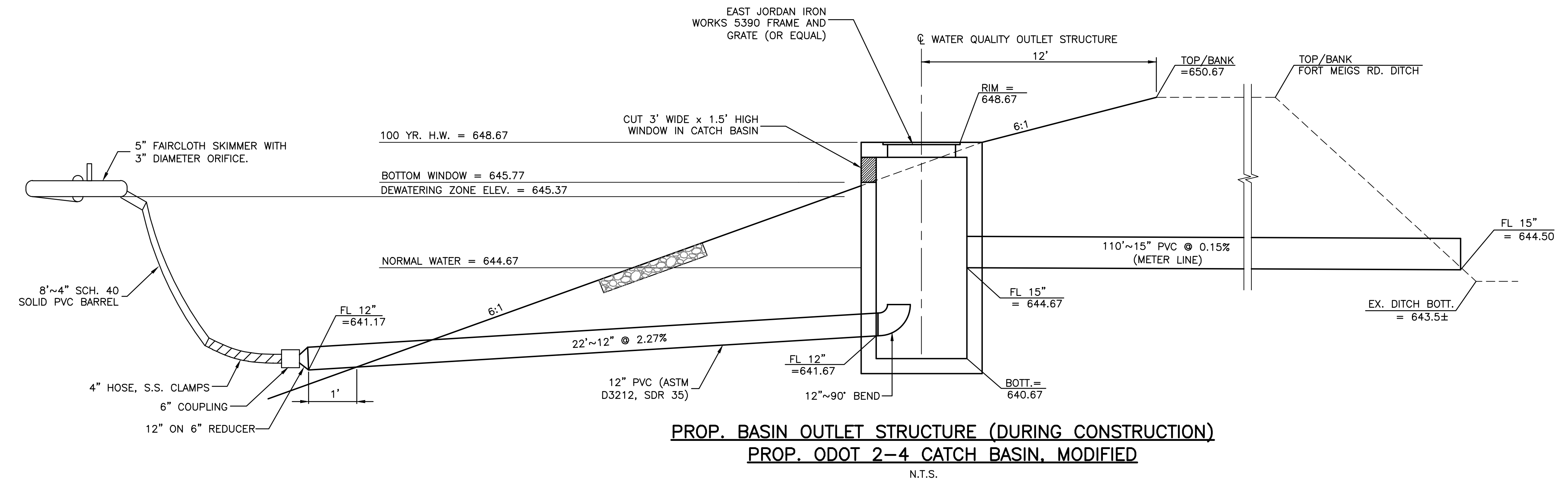
ST. TAP K
0+00 (20+00.00, 45' RT.)
75'~6" (11'C, 39'B, 25'C) ●
1.0%
FL 6" = 646.00

MANHOLE NOTES:

1. ALL STORM MANHOLES SHALL BE SHALLOW MANHOLES PER THE DETAILS ON SHEET 5.
2. THE DIAMETER OF THE SHALLOW STORM MANHOLES SHALL BE AS INDICATED IN THE PROFILE BELOW.
3. THE FLAT SLAB TOP OF THE SHALLOW STORM MANHOLES SHALL BE ORIENTED TO PLACE THE LID AWAY FROM THE STREET CENTERLINE & OUT OF THE PROPOSED SIDEWALK.

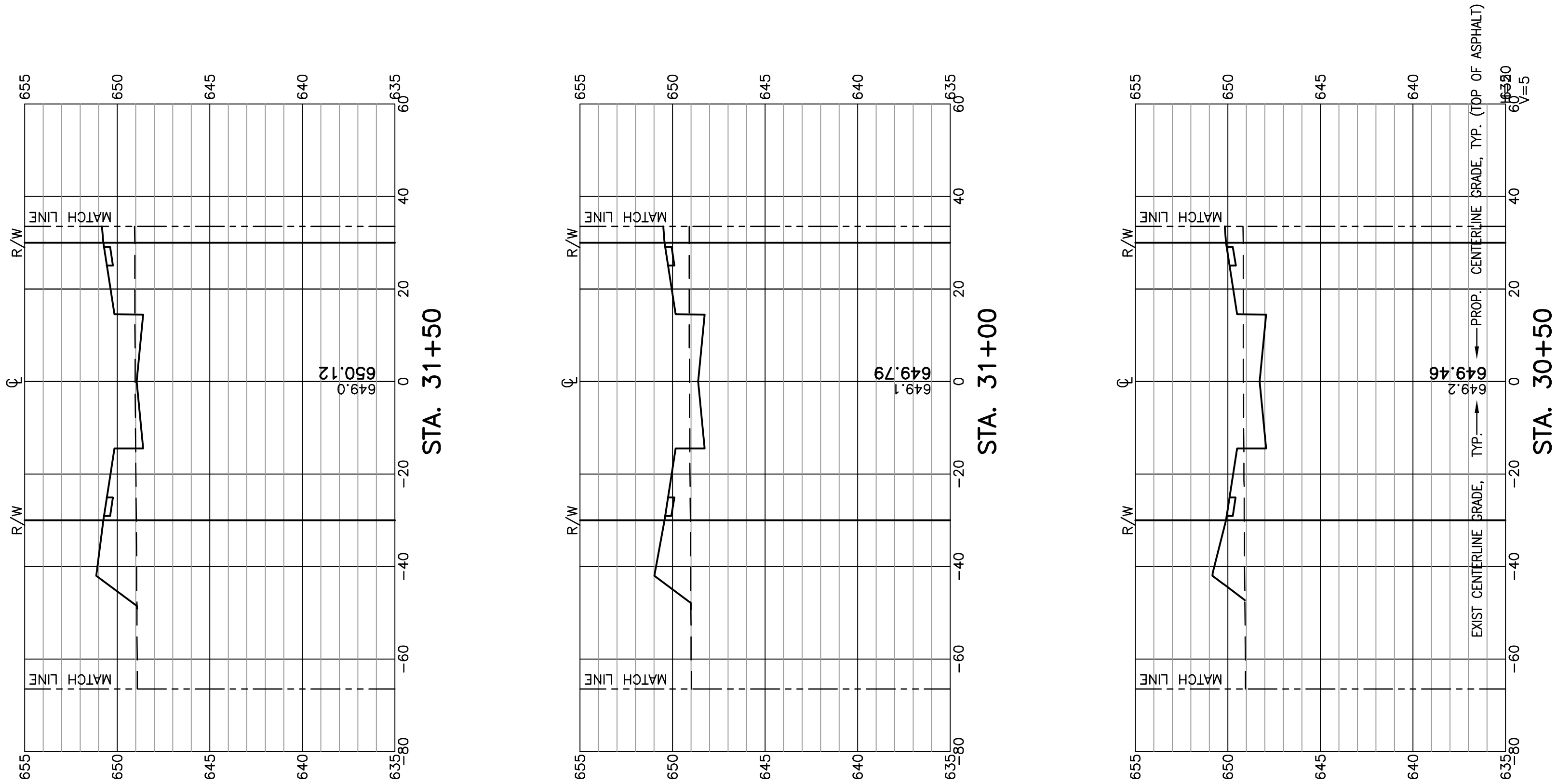


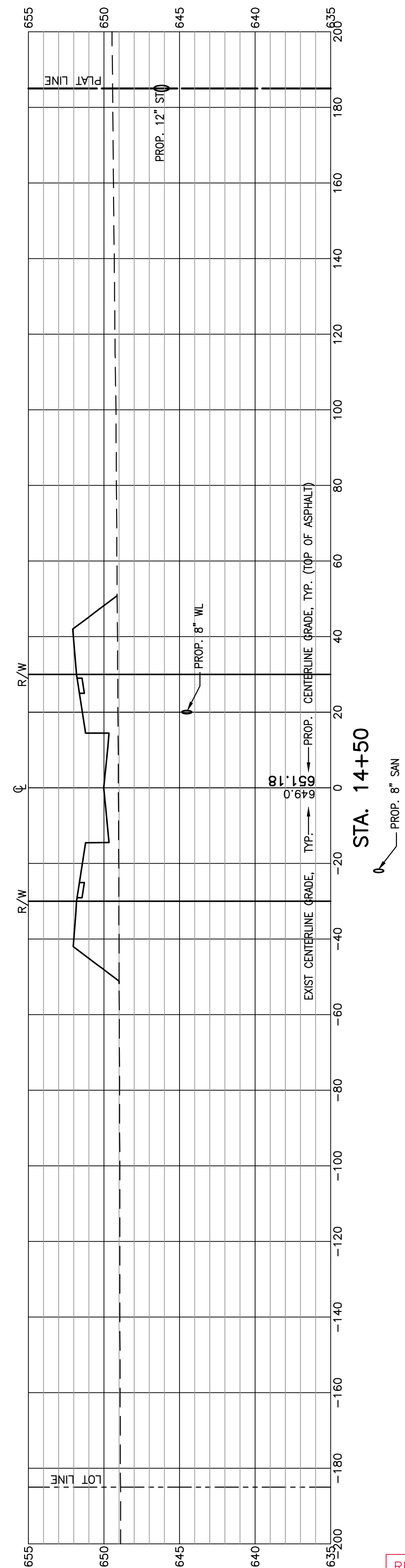
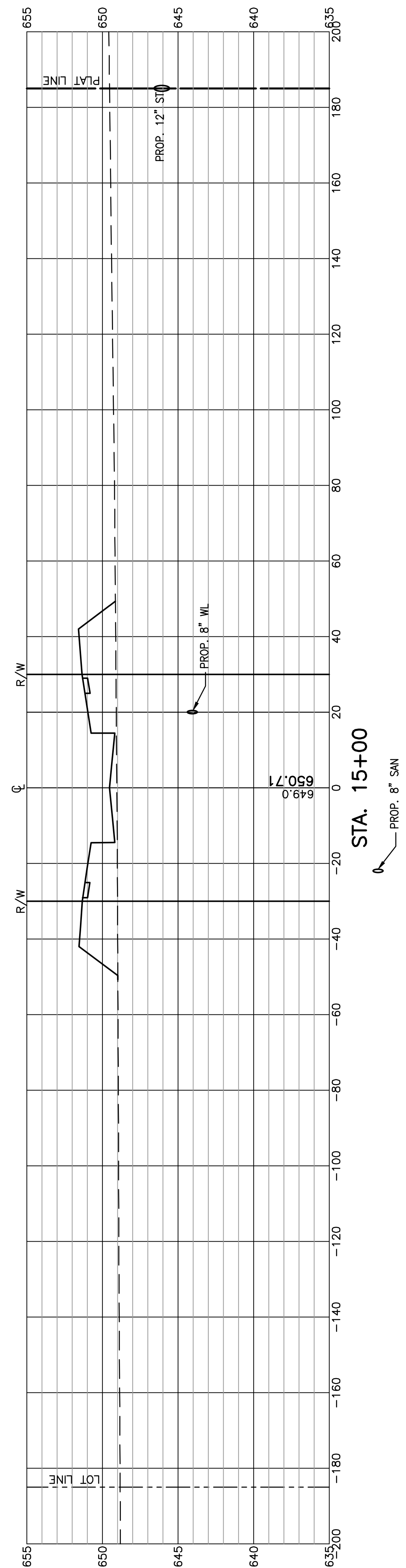
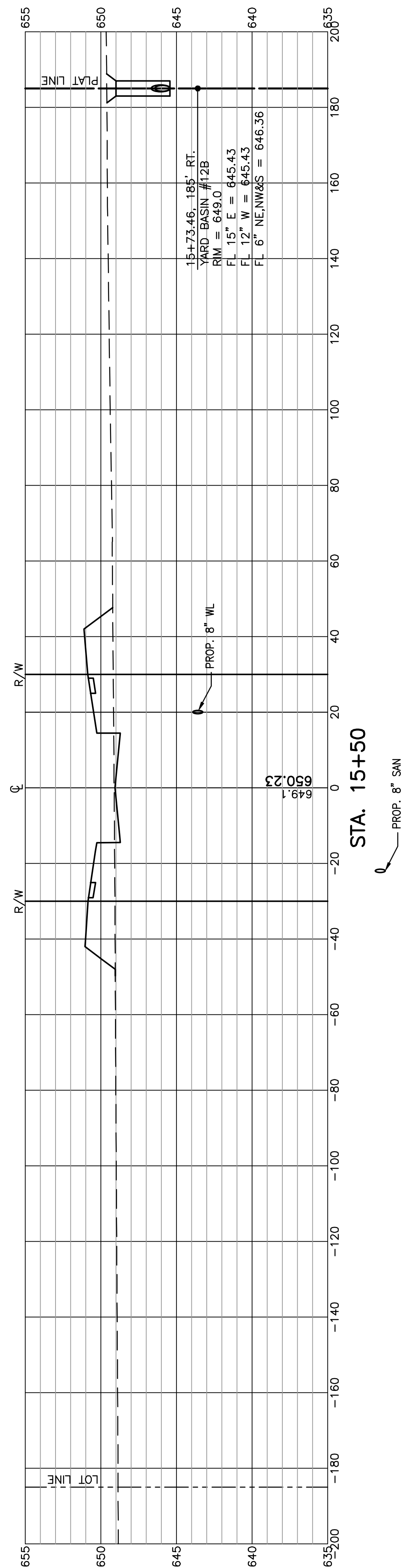
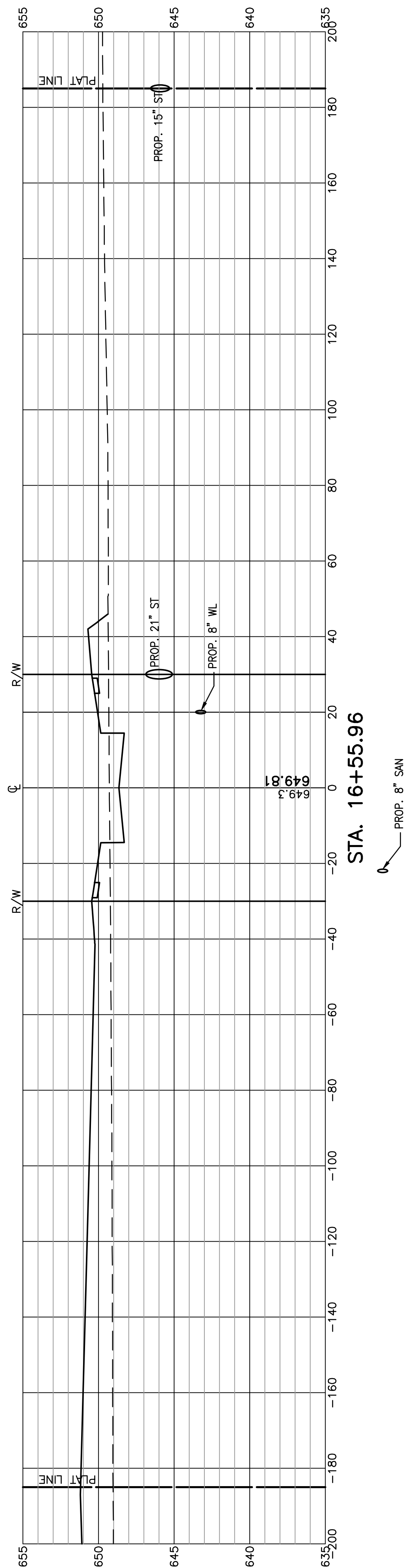
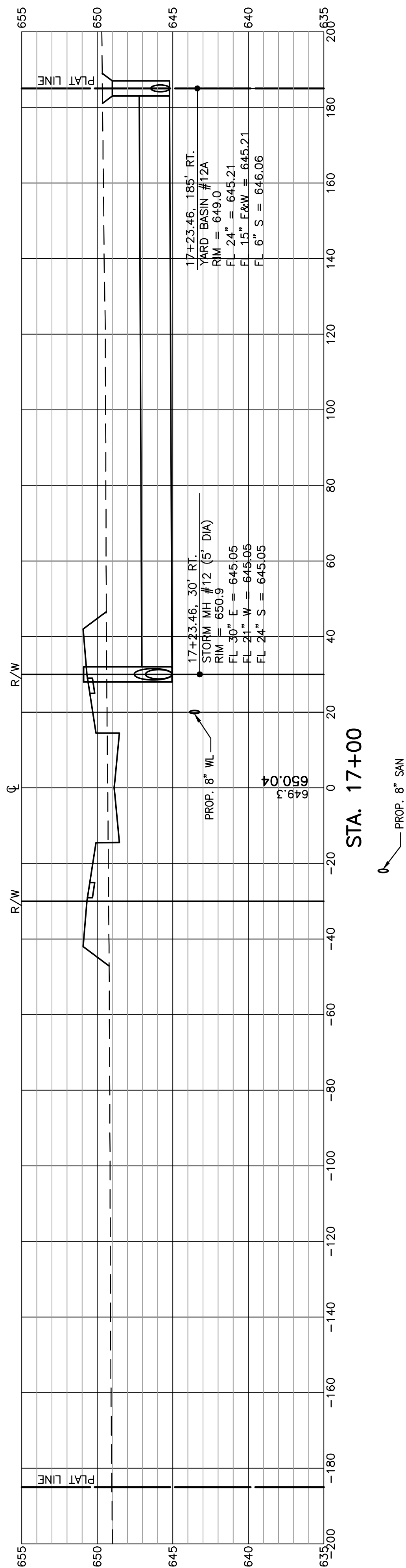
FELLER, FINCH & ASSOCIATES, INC.			
REVISION	DATE	DESIGN BY:	AMF
		DRAWN BY:	AMF
		DATE:	11-16-21
		CHK'D BY:	GNF
		DRAWING:	10-08869DP03A1



RECORD CONSTRUCTION 8/19/24

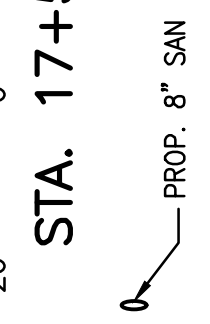
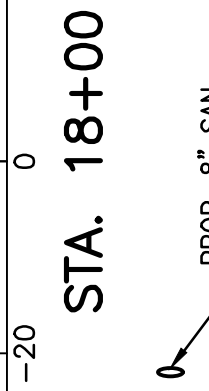
FELLER, FINCH & ASSOCIATES, INC.			
REVISION	DATE	DESIGN BY:	AMP
		DRAWN BY:	AMP
		DATE:	11-16-21
		CHK'D BY:	GNF
		DRAWING:	10-08869P01A1





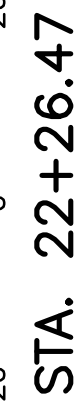
FELLER, FINCH & ASSOCIATES, INC.				
REVISION	DATE	DESIGN BY:	AMP	
		DRAWN BY:	AMP	
		DATE:	11-16-21	
		CHK'D BY:	GNF	
		DRAWING:	10-088690P01A1	

RECORD CONSTRUCTION 8/19/24



10E08869-4

16
22

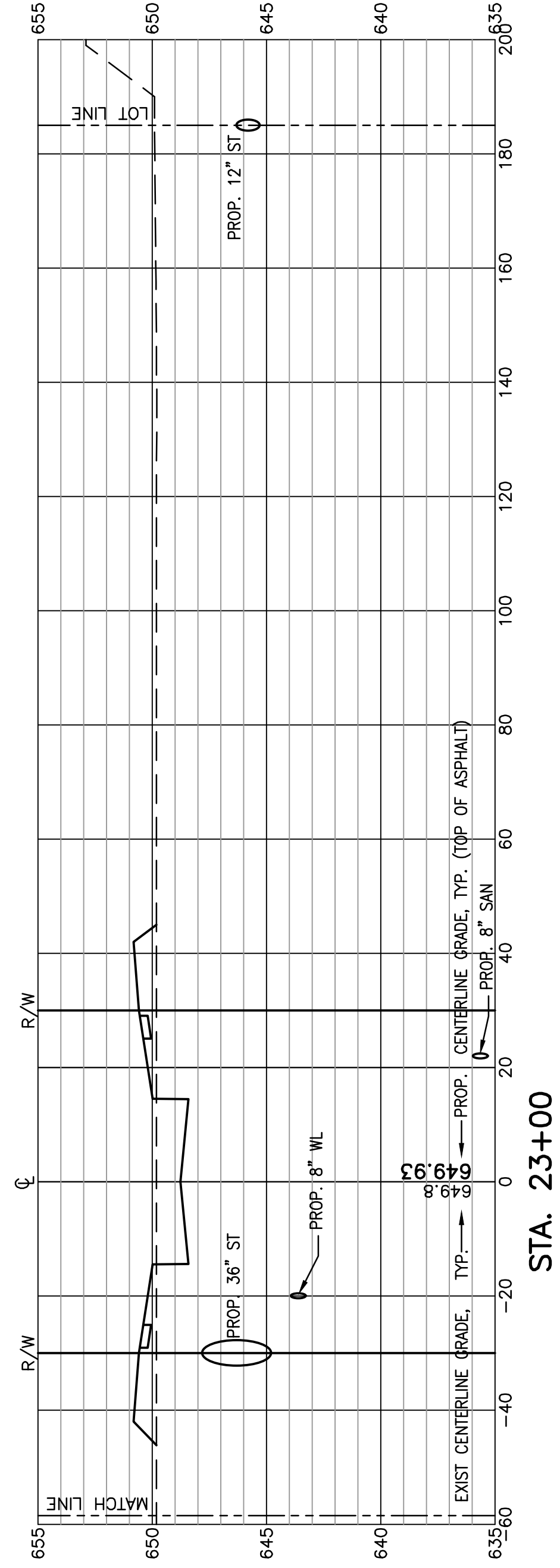
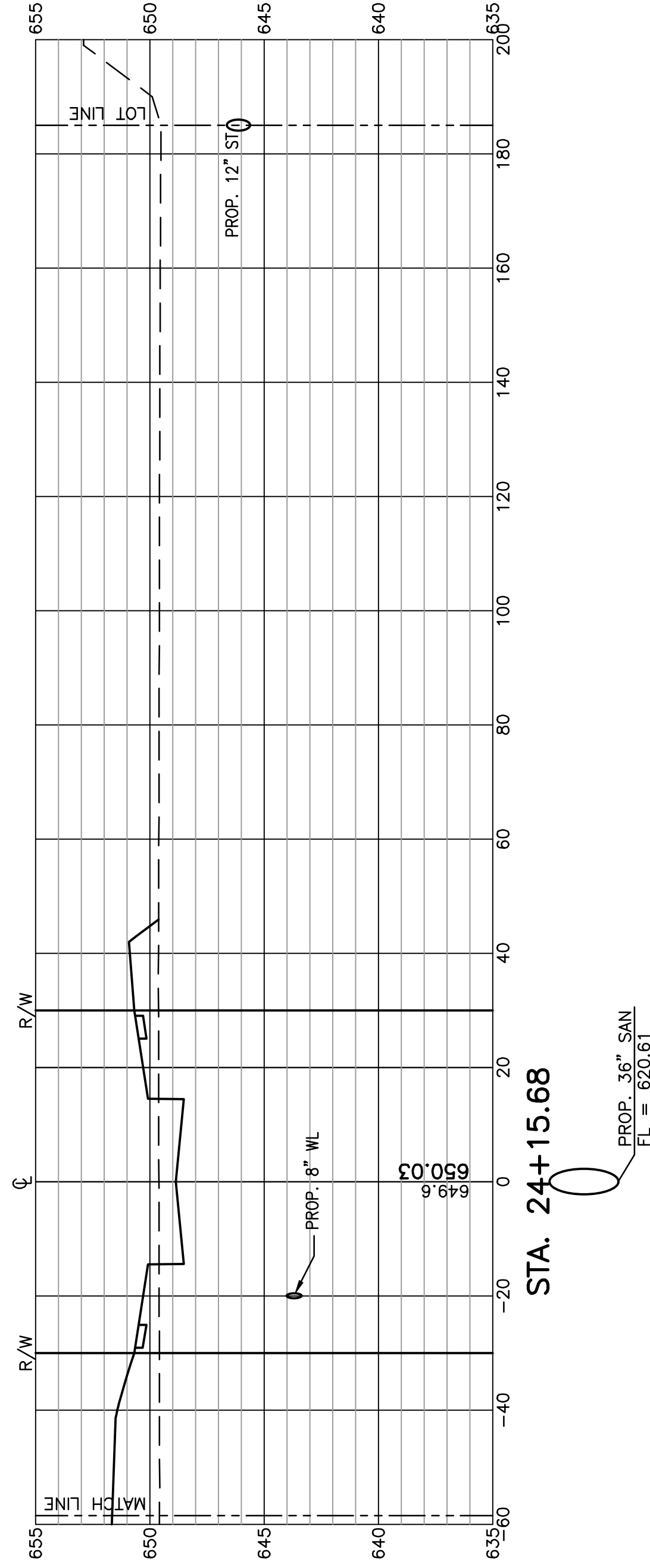
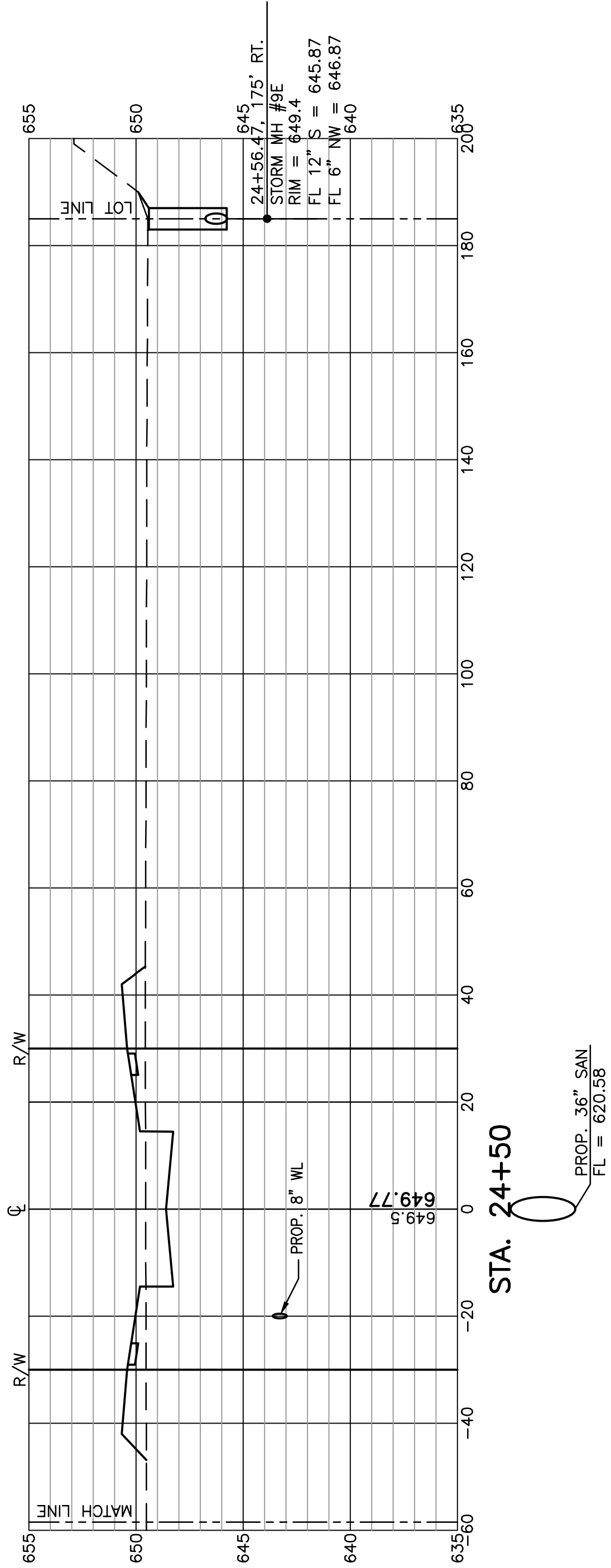
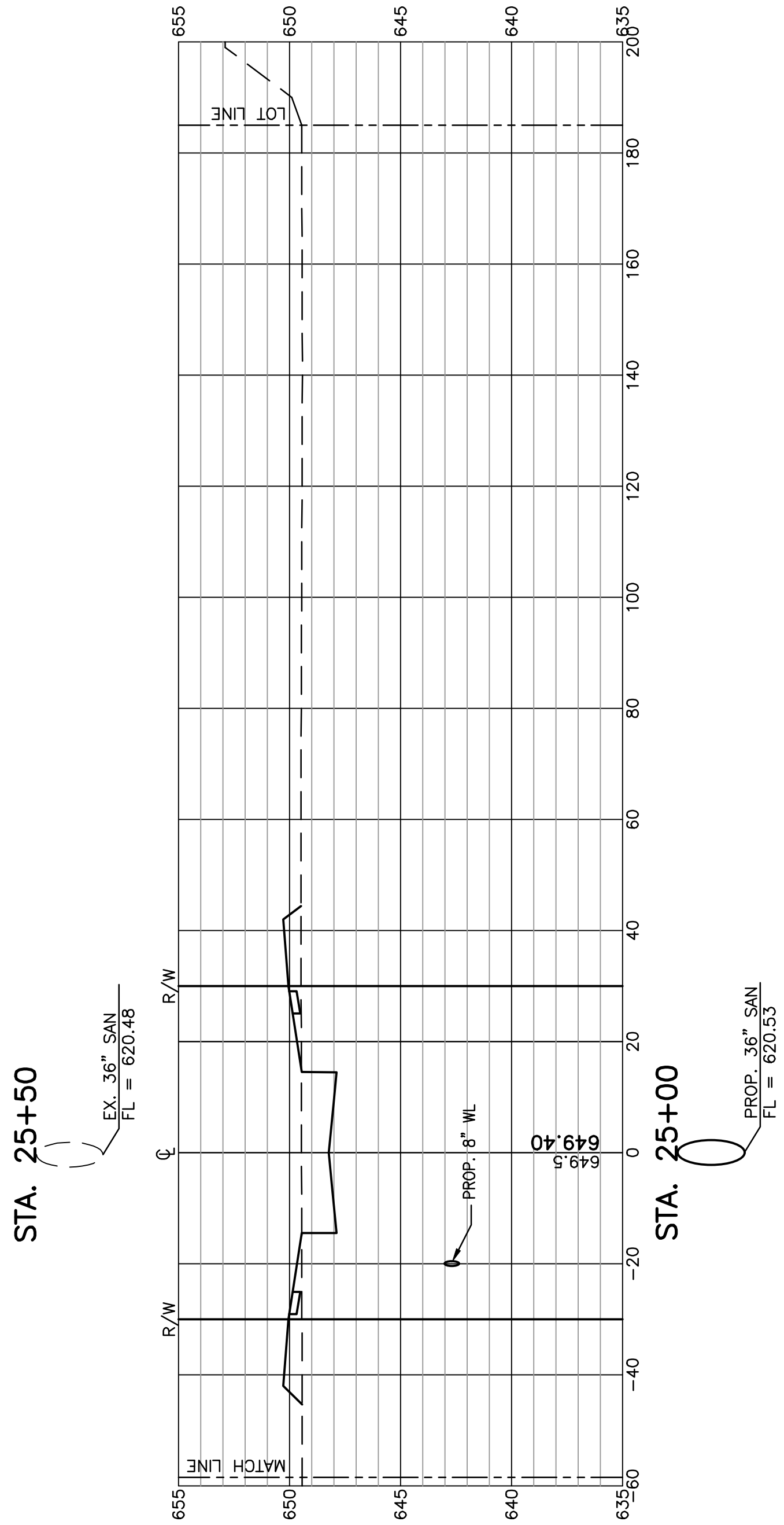
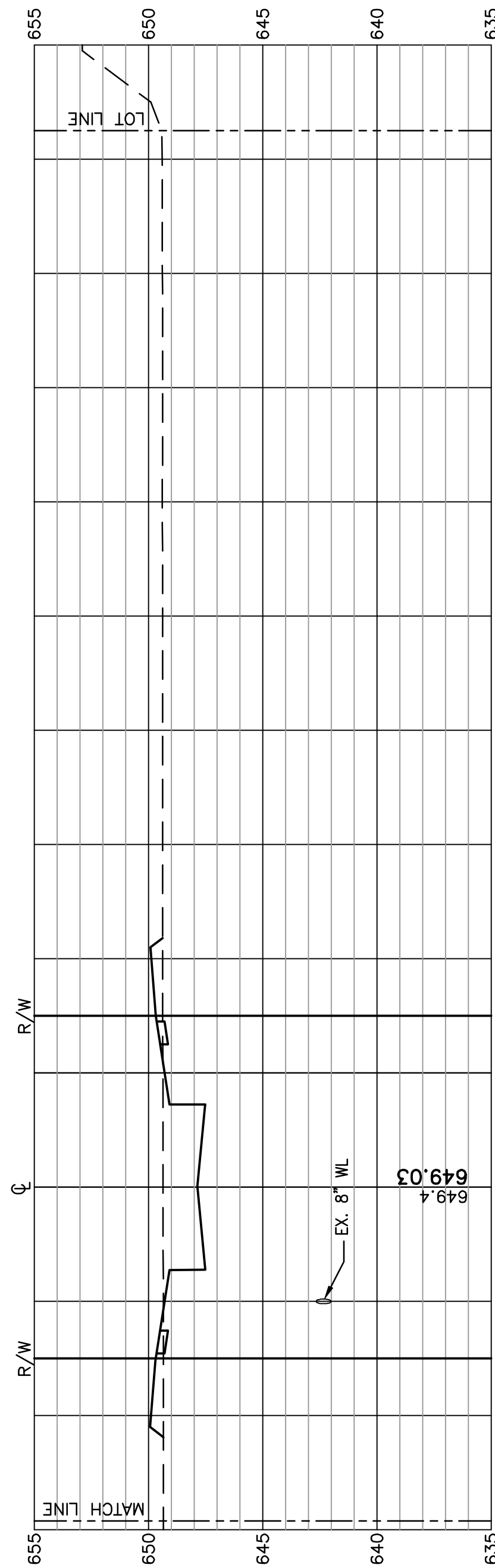


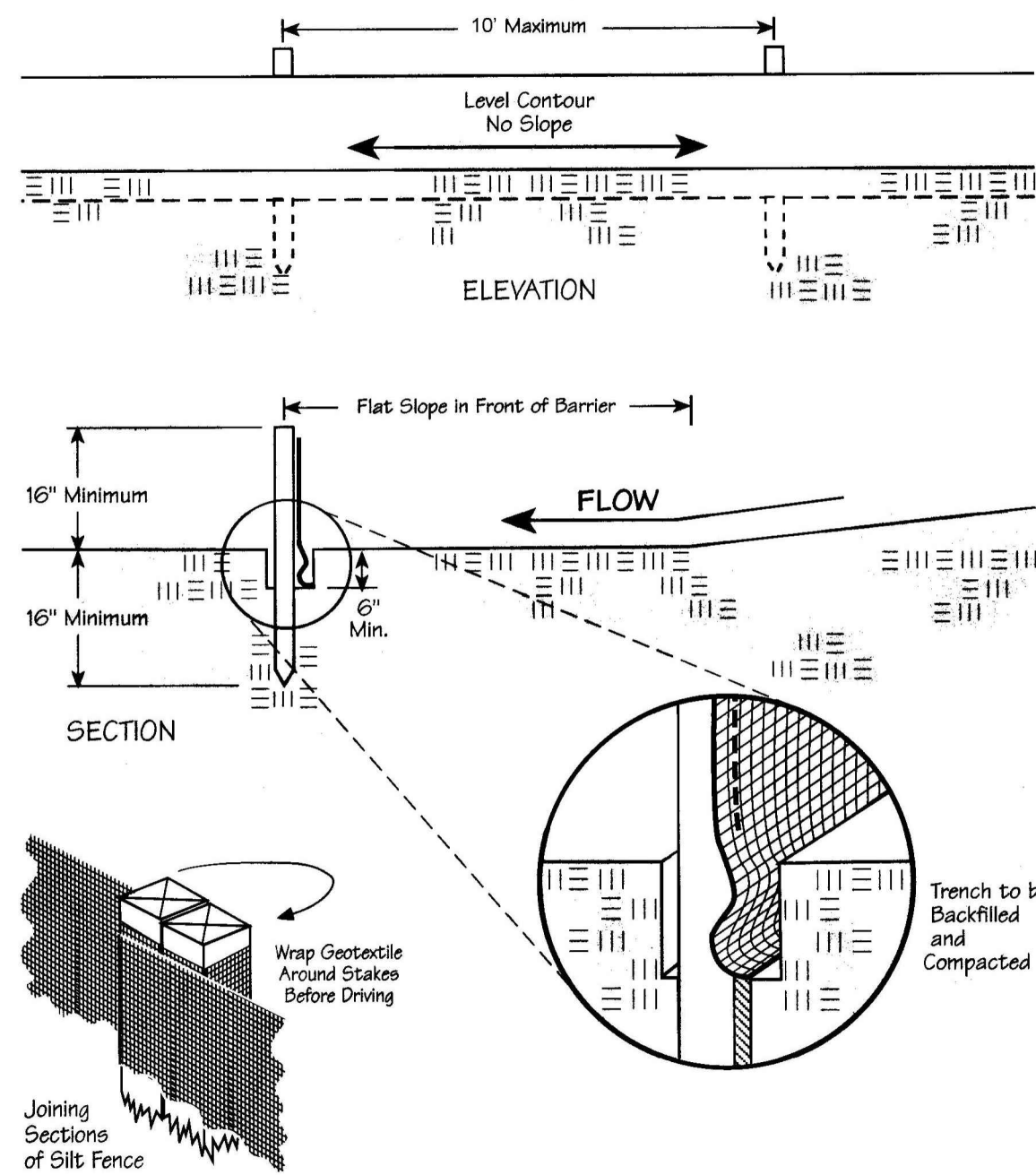
PAVEMENT AND DRAINAGE



10E08869-4

FELLER, FINCH & ASSOCIATES, INC.			
REVISION	DATE	DESIGN BY:	AMF
		DRAWN BY:	AMF
		DATE:	11-16-21
		CHK'D BY:	GNF
		DRAWING:	10-088690P01A1





Specifications
for
Silt Fence

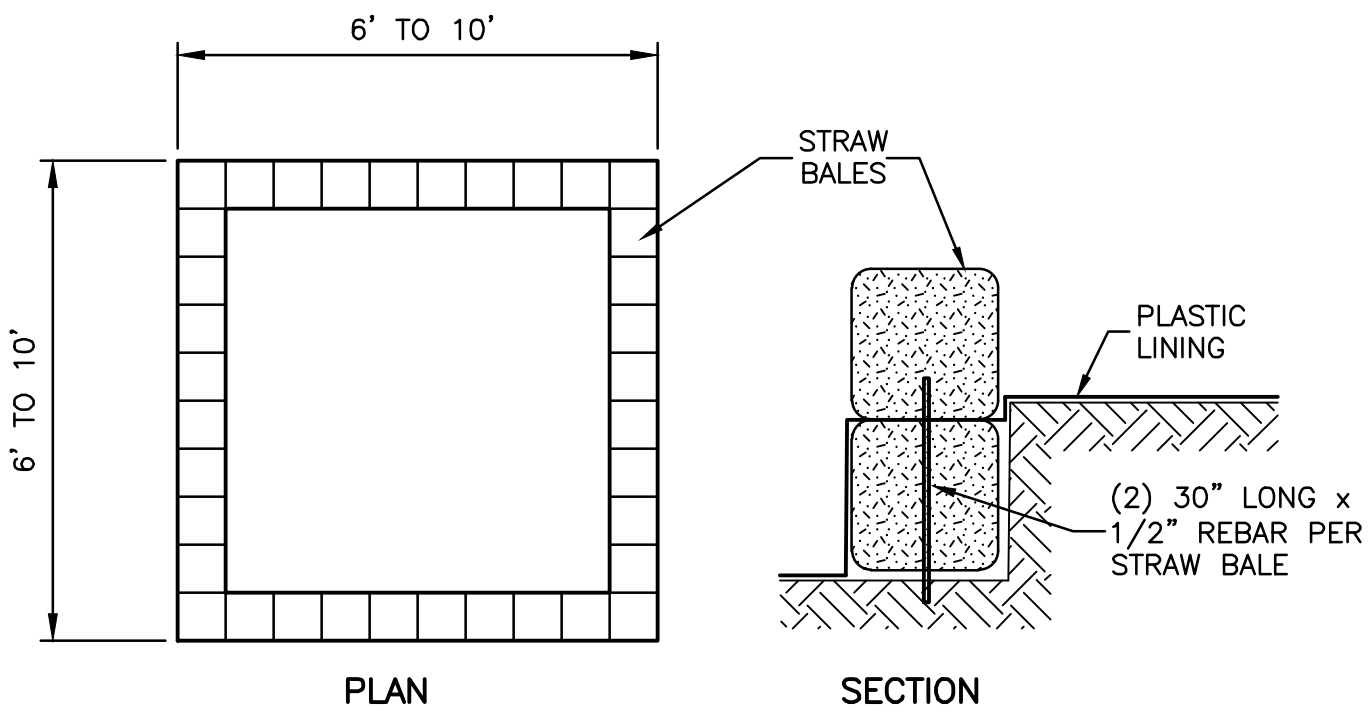
- Silt fence shall be constructed before upslope land disturbance begins.
- All silt fence shall be placed as close to the contour as possible so that water will not concentrate at low points in the fence and so that small swales or depressions which may carry small concentrated flows to the silt fence are dissipated along its length.
- To prevent water ponded by the silt fence from flowing around the ends, each end shall be constructed upslope so that the ends are at a higher elevation.
- Where possible, silt fence shall be placed on the flattest area available.
- Where possible, vegetation shall be preserved for 5 ft. (or as much as possible) upslope from the silt fence. If vegetation is removed, it shall be reestablished within 7 days from the installation of the silt fence.
- The height of the silt fence shall be a minimum of 16 in. above the original ground surface.
- The silt fence shall be placed in a trench cut a minimum of 6 in. deep. The trench shall be cut with a trencher, cable laying machine, or other suitable device which will ensure an adequately uniform trench depth.
- The silt fence shall be placed with the stakes on the downslope side of the geotextile and so that 8 in. of cloth are below the ground surface. Excess material shall lay on the bottom of the 6-in.-deep trench. The trench shall be backfilled and compacted.
- Seams between section of silt fence shall be overlapped with the end stakes of each section wrapped together before driving into the ground.
- Maintenance--Silt fence shall allow runoff to pass only as diffuse flow through the geotextile. If runoff overtops the silt fence, flows under or around the ends, or in any other way becomes a concentrated flow, one of the following shall be performed, as appropriate: 1) The layout of the silt fence shall be changed, 2) Accumulated sediment shall be removed, or 3) Other practices shall be installed.

Criteria for Silt Fence Materials

- Fence Posts--The length shall be a minimum of 32 in. long. Wood posts will be 2-by-2-in. hardwood of sound quality. The maximum spacing between posts shall be 10 ft.
- Silt Fence Fabric (see chart below):

Fabric Properties	Values	Test Method
Grab Tensile Strength	90 lb. minimum	ASTM D 1682
Mullen Burst Strength	190 psi minimum	ASTM D 3786
Slurry Flow Rate	0.3 gal./min./ft ² maximum	
Equivalent Opening Size	40-80	US Std. Sieve CW-02215
Ultraviolet Radiation Stability	90% minimum	ASTM-G-26

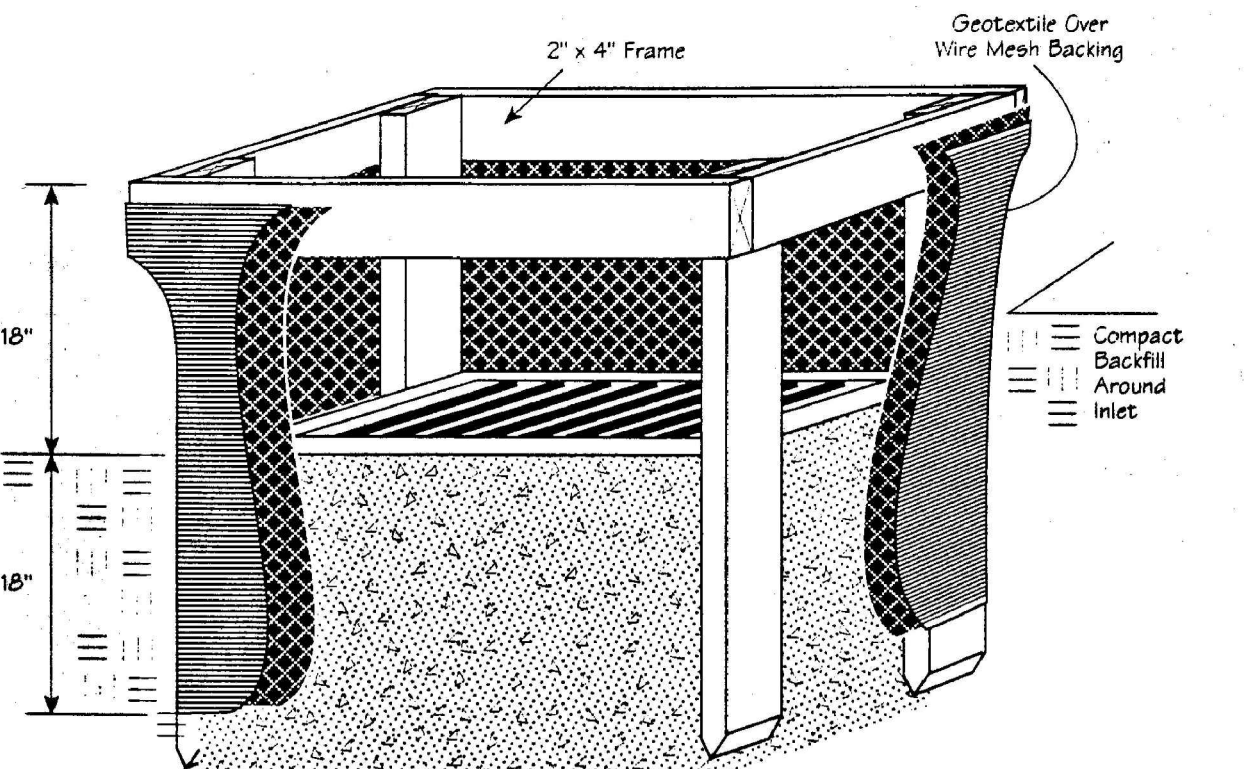
Ⓕ FILTER FABRIC FENCE



NOTE:
CONTRACTOR CAN USE PORTABLE CONCRETE WASHOUT AREAS IN LIEU OF CONCRETE WASHOUT BASINS (RECOMMENDED).

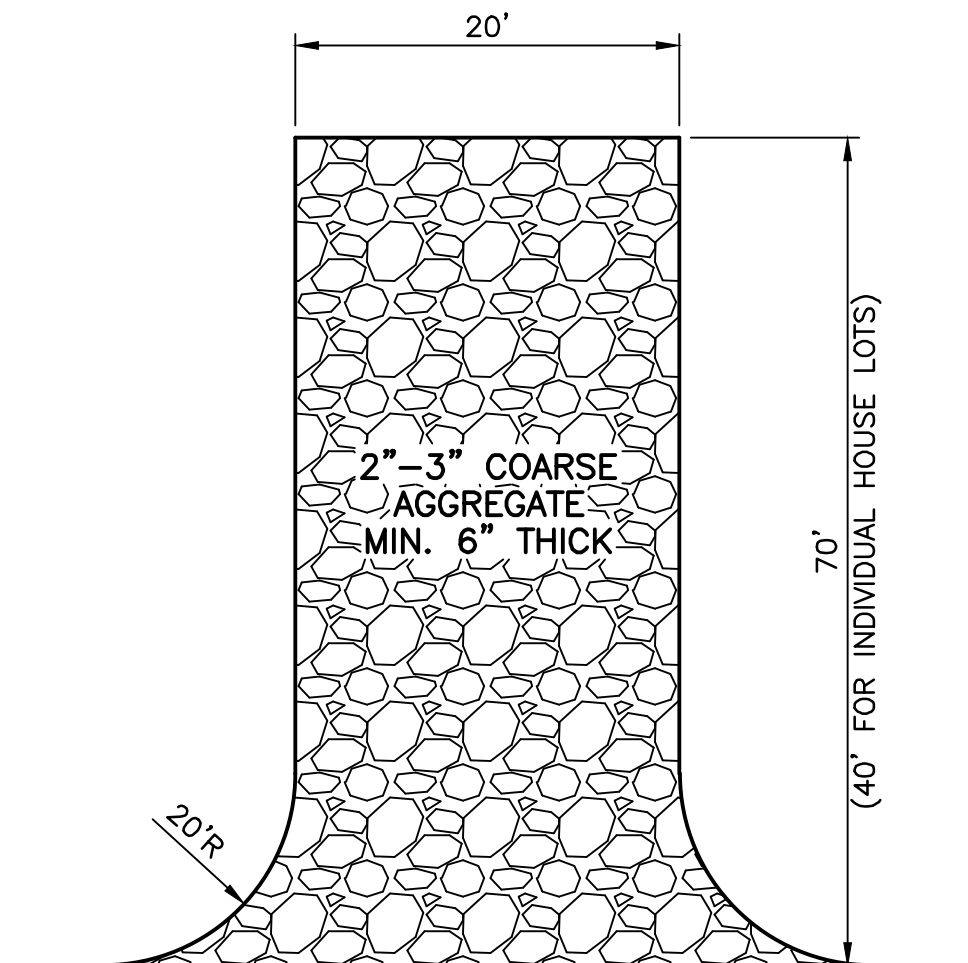
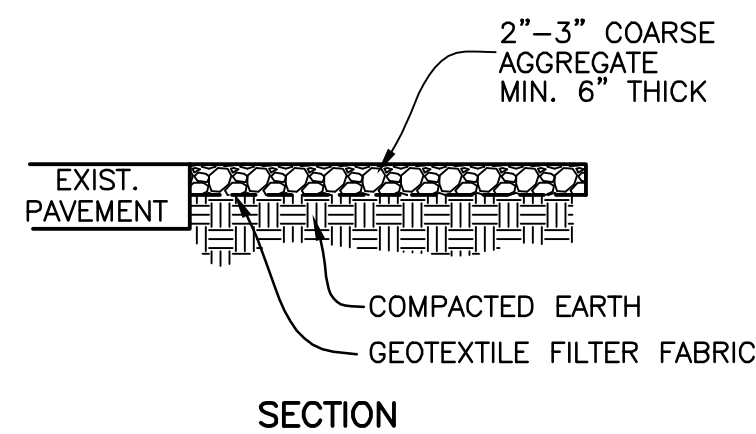
WASHOUT AREAS MUST HAVE SOME FORM OF PLASTIC LINING.

Ⓖ CONCRETE WASHOUT AREA
NOT TO SCALE



- Inlet protection shall be constructed either before upslope land disturbance begins or before the storm drain becomes operational.
- The earth around the inlet shall be excavated completely to a depth at least 18 in.
- The wooden frame shall be constructed of 2-by-4-in. construction-grade lumber. The 2-by-4-in. posts shall be driven 1 ft. into the ground at four corners of the inlet and the top portion of 2-by-4-in. frame assembled using the overlap joint shown. The top of the frame shall be at least 6 in. below adjacent roads if ponded water would pose a safety hazard to traffic.
- Wire mesh shall be of sufficient strength to support fabric with water fully impounded against it. It shall be stretched tightly around the frame and fastened securely to the frame.
- Geotextile shall have an equivalent opening size of 20-40 sieve and be resistant to sunlight. It shall be stretched tightly around the frame and fastened securely. It shall extend from the top of the frame to 18 in. below the inlet notch elevation. The geotextile shall overlap across one side of the inlet so the ends of the cloth are not fastened to the same post.
- Backfill shall be placed around the inlet in compacted 6-in. layers until the earth is even with notch elevation on ends and top elevation on sides.
- A compacted earth dike or a check dam shall be constructed in the ditch line below the inlet if the inlet is not in a depression and if runoff bypassing the inlet will not flow to a settling pond. The top of earth dikes shall be at least 6 in. higher than the top of the frame.

Ⓐ INLET PROTECTION FILTER
(OR APPROVED EQUAL)
IN SWALES, DITCH LINES OR YARD INLETS
N.T.S.



IF MUD MAT BECOMES CLOGGED WITH SEDIMENT SO THAT IT NO LONGER ADEQUATELY PERFORMS ITS FUNCTION, THE STONE MUST BE CLEANED AND REPLACED.

ALL EQUIPMENT LEAVING SITE MUST USE MUD MATT AND HAVE LOADS STABILIZED AND TIGHT WITH ALL LOOSE DEBRIS AND MATTER REMOVED PRIOR TO TRAVELING ON PUBLIC ROADWAYS.

ANY TRACK-OUT NOT CONTAINED BY THE MUD MAT MUST BE CLEANED UP BY THE CONTRACTOR IMMEDIATELY AFTER OCCURRENCE NO LATTER.

Ⓔ CONSTRUCTION ENTRANCE "MUD MAT" DETAIL
NOT TO SCALE

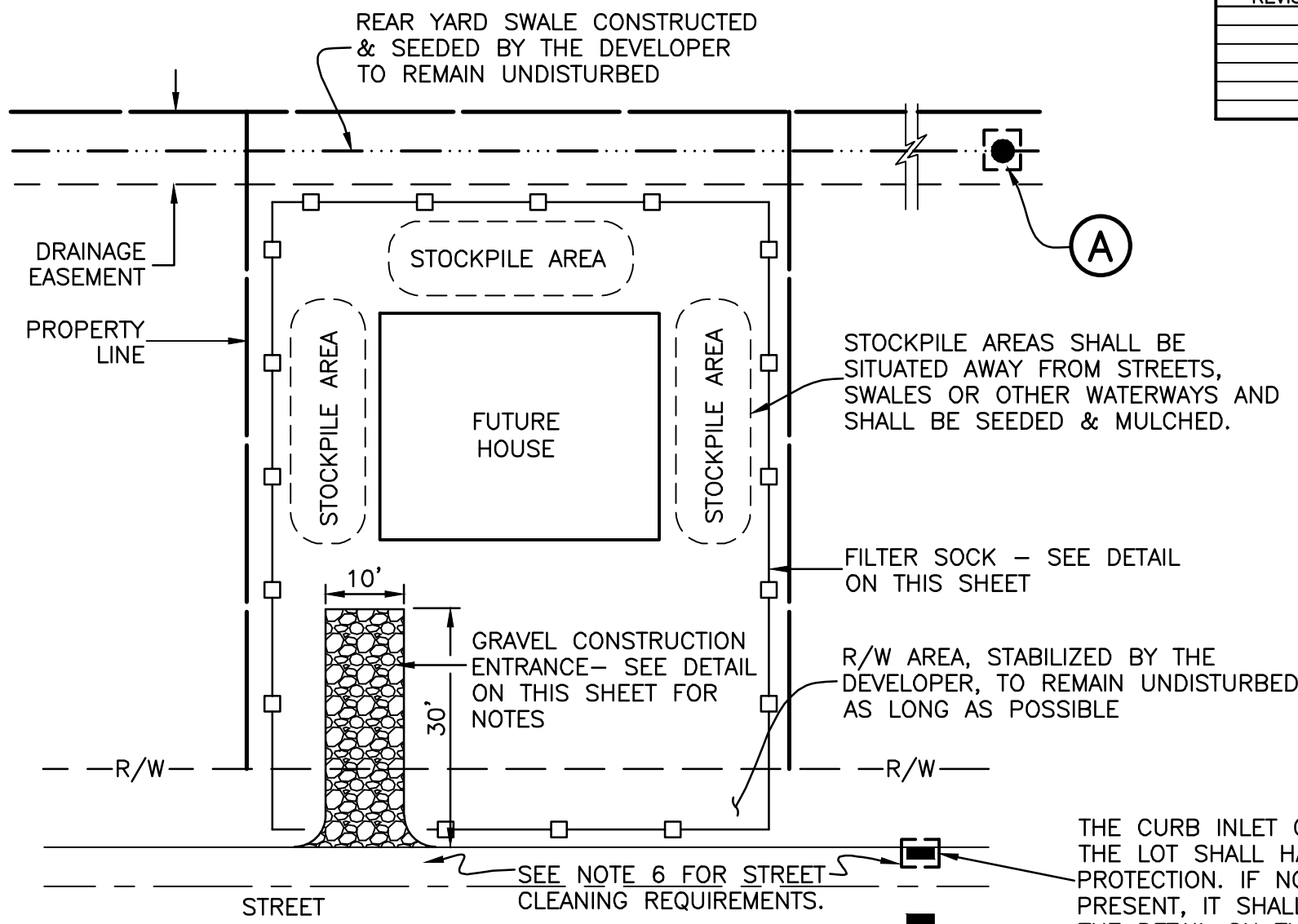
SPECIFICATIONS FOR
SMALL LOT BUILDING SITES

- Preexisting vegetation shall be retained on idle portions of the building lot for as long as construction operations allow. Clearing shall be done so only active working areas are bare.
- Temporary seed (annual rye, oats, etc.) and/or mulch shall be applied to areas, such as stockpiles, that are bare and not actively being worked. This shall apply to areas that will not be reworked for 14 days or more.
- Stockpiles excavated from basements shall be situated away from streets, swales, or other waterways and shall be seeded and/or mulched.
- Silt fence shall control sheet flow runoff from the building lot. It shall not be constructed in channels or areas of concentrated flow. Other sediment controls such as inlet protection and sediment traps shall also be used as needed to control sediment runoff.
- Construction vehicle access shall be limited to one route, to the greatest extent practical. The access shall be gravel or crushed rock applied to the driveway area.
- Mud tracked onto the street or sediment settled around curb inlet protection shall be removed daily or as needed to prevent it from accumulating. It shall be removed by shovelling and scraping and shall NOT be washed off paved surfaces or into storm drains.

HOME CONSTRUCTION IMPLEMENTATION SCHEDULE

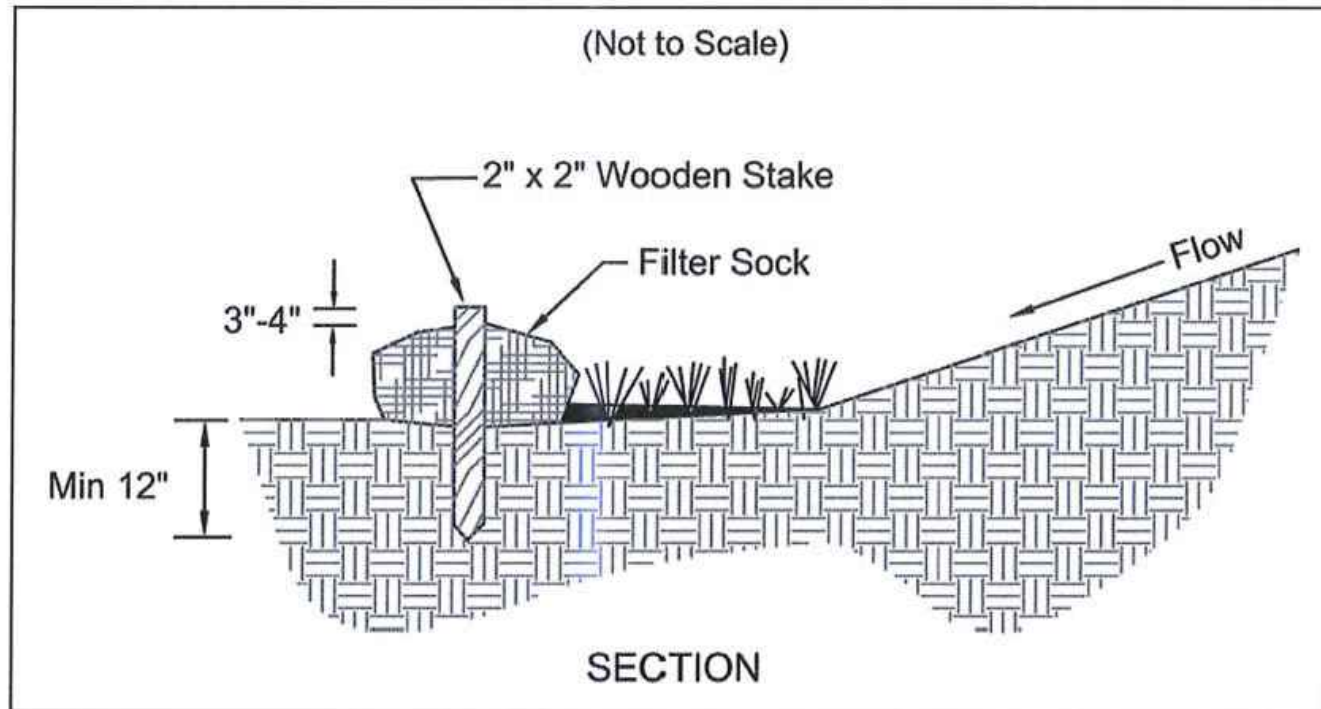
SITE STABILIZATION

- PLACE TEMPORARY SEEDING ON ALL DISTURBED AREAS (DEVELOPER).
- INSTALL PRACTICES ON ALL LOTS CURRENTLY BEING CONSTRUCTED. (SEE THIS SHEET) (INDIVIDUAL HOME BUILDERS)
- FILE A NOTICE OF TERMINATION UPON FINAL STABILIZATION OF ALL CURRENTLY DISTURBED LAND. (DEVELOPER)
- REVISE THIS EPSC PRIOR TO ANY FURTHER EARTH DISTURBING ACTIVITIES. (DEVELOPER)



INDIVIDUAL LOT SWP3

Specifications
for
Filter Sock



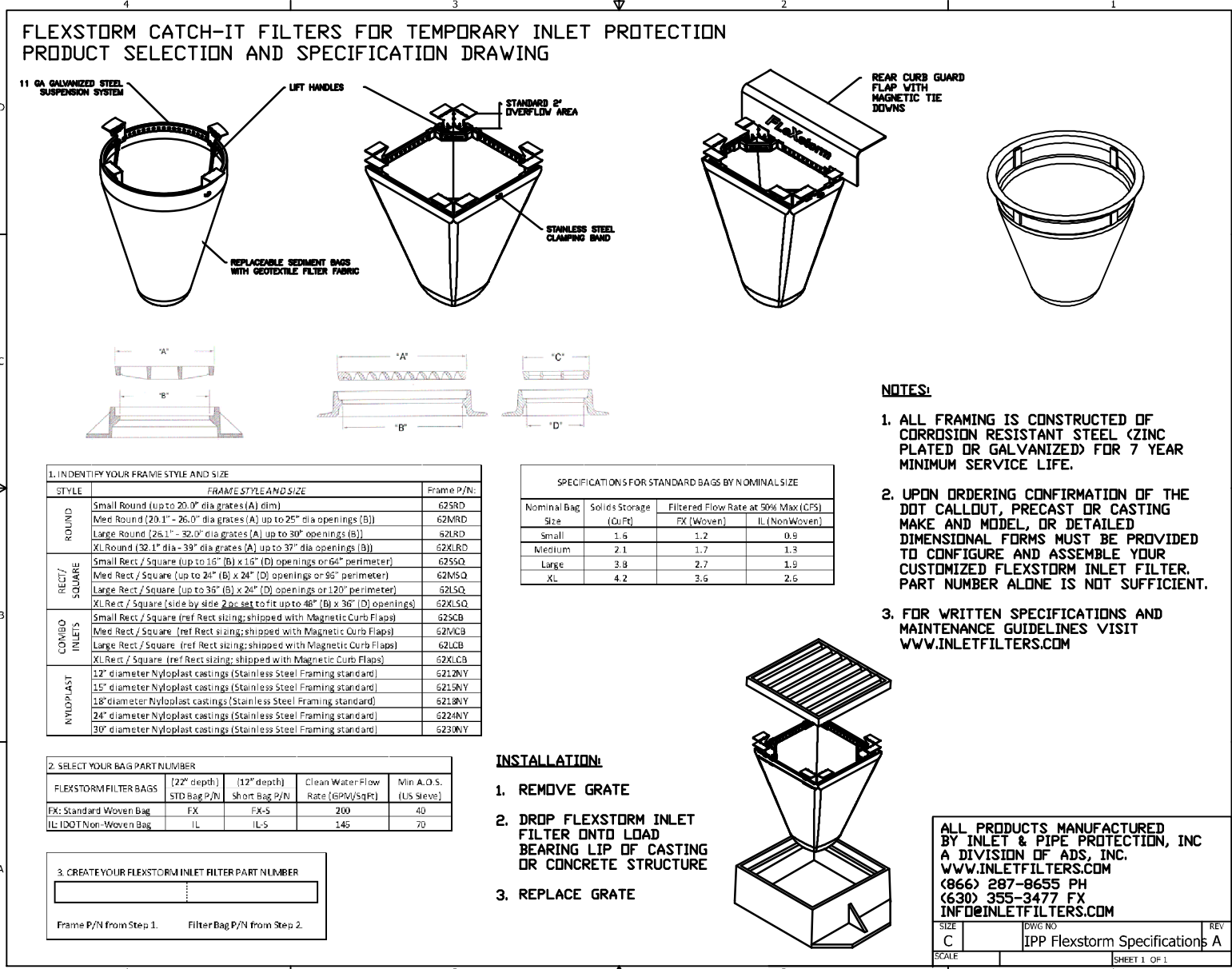
- Materials -- Compost used for filter socks shall be weed, pathogen and insect free and free of any refuse, contaminants or other materials toxic to plant growth. They shall be derived from a well-decomposed source of organic matter and consist of a particles ranging from 3/8" to 2".
- Filter Socks shall be 3 or 5 mil continuous, tubular, HDPE 3/8" knitted mesh netting material, filled with compost passing the above specifications for compost products.
- Filter Socks are not to be used in concentrated flow situations or in runoff channels.

MAINTENANCE:

- Routinely inspect filter socks after each significant rain, maintaining filter socks in a functional condition at all times.
- Remove sediments collected at the base of the filter socks when they reach 1/3 of the exposed height of the practice.
- Where the filter sock deteriorates or fails, it will be repaired or replaced with a more effective alternative.
- Removal -- Filter socks will be dispersed on site when no longer required in such as way as to facilitate and not obstruct seedings.

INSTALLATION:

- Filter socks will be placed on a level line across slopes, generally parallel to the base of the slope or other affected area. On slopes approaching 2:1, additional socks shall be provided at the top and as needed mid-slope.
- Filter socks intended to be left as a permanent filter or part of the natural landscape, shall be seeded at the time of installation for establishment of permanent vegetation.



Ⓑ CURB INLET SEDIMENT FILTER

Ⓙ FILTER SOCK

RECORD CONSTRUCTION 8/19/24

D CONSTRUCTION SEEDING

Temporary Seeding Species Selection			
Seeding Dates	Species	Lb./1,000 ft. ²	Per Ac.
March 1 to August 15	Oats	3	4 bushel
	Tall Fescue	1	40 lb.
	Annual Ryegrass	1	40 lb.
	Perennial Ryegrass	1	40 lb.
August 16 to November 1	Tall Fescue	1	40 lb.
	Annual Ryegrass	1	40 lb.
	Wheat	3	2 bushel
	Tall Fescue	1	40 lb.
	Annual Ryegrass	1	40 lb.
	Perennial Ryegrass	1	40 lb.
	Tall Fescue	1	40 lb.
	Annual Ryegrass	1	40 lb.
November 1 to Spring Seeding Use mulch only, sodding practices or dormant seeding.			
Note: Other approved seed species may be substituted.			

1. Structural erosion- and sediment-control practices such as diversions and sediment traps shall be installed and stabilized with temporary seeding prior to grading the rest of the construction-site.

2. Temporary seed shall be applied between construction operations on soil that will not be graded or reworked for 45 days or more. These idle areas should be seeded as soon as possible after grading or shall be seeded within 7 days. Several applications of temporary seeding are necessary on typical construction projects.

3. The seedbed should be pulverized and loose to ensure the success of establishing vegetation. However, temporary seeding shall not be postponed if ideal seedbed preparation is not possible.
4. Soil Amendments--Applications of temporary vegetation shall establish adequate stands of vegetation which may require the use of soil amendments. Soil tests should be taken on the site to predict the need for lime and fertilizer.

5. Seeding Method--Seed shall be applied uniformly with a cyclone seeder, drill, cultipacker seeder, or hydroseeder. When feasible, seed that has been broadcast shall be covered by raking or dragging and then lightly tamped into place using a roller or cultipacker. If hydroseeding is used, the seed and fertilizer will be mixed on-site and the seeding shall be done immediately and without interruption.

INSPECTION

Procedures in this SWP3 shall provide that all controls on the site are inspected at least once every seven calendar days and within 24 hours after any storm event greater than one-half inch of rain per 24 hour period. The inspection frequency may be reduced to at least once every month if the entire site is temporarily stabilized or runoff is unlikely due to weather conditions (e.g., site is covered with snow, ice, or the ground is frozen). A waiver of inspection requirements is available until one month before thawing conditions are expected to result in a discharge if all of the following conditions are met: the project is located in an area where frozen conditions are anticipated to continue for extended periods of time (i.e., more than one month); land disturbance activities have been suspended; and the beginning and ending dates of the waiver period are documented in the SWP3. The permittee shall assign qualified inspection personnel (those with knowledge and experience in the installation and maintenance of sediment and erosion controls) to conduct these inspections to ensure that the control practices are functional and to evaluate whether the SWP3 is adequate and properly implemented in accordance with the schedule proposed in Part III. G.1.g of this permit or whether additional control measures are required. Disturbed areas and areas used for storage of materials that are exposed to precipitation shall be inspected for evidence of, or the potential for, pollutants entering the drainage system. Erosion and sediment control measures identified in the SWP3 shall be observed to ensure that those are operating correctly. Discharge locations shall be inspected to ascertain whether erosion and sediment control measures are effective in preventing significant impacts to the receiving waters. Locations where vehicles enter or exit the site shall be inspected for evidence of off-site vehicle tracking.

The permittee shall maintain for three years following the submittal of a notice of termination form, a record summarizing the results of the inspections, names(s) and qualifications of personnel making the inspection, the date(s) of the inspection, signature of the inspector, major observations relating to the implementation of the SWP3 and a certification as to whether the facility is in compliance with the SWP3 and the permit and identify any incidents of non-compliance. The record and certification shall be signed in accordance with Part V.G. of the permit.

- a. When practices require repair or maintenance. If the inspection reveals that a control practice is in need of repair or maintenance, with the exception of a sediment settling pond, it must be repaired or maintained within three days of the inspection. Sediment settling ponds must be repaired or maintained within 10 days of the inspection.

b. When practices fail to provide their intended function. If the inspection reveals that a control practice fails to perform its intended function and that another, more appropriate control practice is required, the SWP3 must be amended and the new control practice must be installed within 10 days of the inspection.

c. When practices depicted on the SPW3 are not installed. If the inspection reveals that a control practice has not been implemented in accordance with the schedule contained in Part III.G.1.g of this permit, the control practice must be implemented within 10 days from the date of the inspection. If the inspection reveals that the planned control practice is not needed, the record must contain a statement of explanation as to why the control practice is not needed.

MAINTENANCE

All temporary and permanent control practice shall be maintained and repaired as needed to ensure continued performance of their intended function. All sediment control practices must be maintained in a functional condition until all up slope areas they control are permanently stabilized. The SWP3 shall be designed to minimize maintenance requirements. The applicant shall provide a description of maintenance procedures needed to ensure the continued performance of control practices.

MULCHING TEMPORARY SEEDING

1. Applications of temporary seeding shall include mulch which shall be applied during or immediately after seeding. Seedings made during optimum seeding dates and with favorable soil conditions and on very flat areas may not need mulch to achieve adequate stabilization.

2. Materials:
 - Straw--If straw is used, it shall be unrotted small-grain straw applied at the rate of 2 tons/ac. or 90 lb./1,000 sq. ft. (two to three bales). The mulch shall be spread uniformly by hand or mechanically so the soil surface is covered. For uniform distribution of hand-spread mulch, divide area into approximately 1,000-sq.-ft. sections and spread two 45-lb. bales of straw in each section.
 - Hydroseeders--If wood cellulose fiber is used, it shall be used at 2,000 lb./ac. or 46 lb./1,000 sq. ft.
 - Other--Other acceptable mulches include mulch mattings applied according to manufacturer's recommendations or wood chips applied at 6 tons/ac.
3. Straw mulch shall be anchored immediately to minimize loss by wind or water. Anchoring Methods:
 - Mechanical--A disk, crimper, or similar type tool shall be set straight to punch or anchor the mulch material into the soil. Straw mechanically anchored shall not be finely chopped but, generally, be left longer than 6 in..
 - Mulch Nettings--Nettings shall be used according to the manufacturer's recommendations. Netting may be necessary to hold mulch in place in areas of concentration runoff and on critical slopes.
 - Asphalt Emulsion--Asphalt shall be applied as recommended by the manufacturer or at the rate of 160 gal./ac.
 - Synthetic Binders--Synthetic binders such as Acrylic DLR (Agri-Tac), DCA-70, Petroset, Terra Tack or equal may be used at rates recommended by the manufacturer.
 - Wood-Cellulose Fiber--Wood-cellulose fiber binder shall be applied at a net dry weight of 750 lb./ac. The wood-cellulose fiber shall be mixed with water and the mixture shall contain a maximum of 50 lb./100 gal.

C D MULCHING

Specifications for Mulching

1. Mulch and/or other appropriate vegetative practices shall be applied to disturbed areas within 7 days of grading if the area is to remain dormant (undisturbed) for more than 14 days or on areas and portions of the site which can be brought to final grade.

2. Mulch shall consist of one of the following:
 - Straw--Straw shall be unrotted small grain straw applied at the rate of 2 tons/ac. or 90 lb./1,000 sq. ft. (two to three bales). The straw mulch shall be spread uniformly by hand or mechanically so the soil surface is covered. For uniform distribution of hand-spread mulch, divide area into approximately 1,000-sq.-ft. sections and place two 45-lb. bales of straw in each section.
 - Hydroseeders--Wood cellulose fiber should be used at 2,000 lb./ac. or 46 lb./1,000 sq. ft.
 - Other--Other acceptable mulches include mulch mattings applied according to manufacturer's recommendations or wood chips applied at 10-20 tons/ac.
3. Mulch Anchoring--Mulch shall be anchored immediately to minimize loss by wind or runoff. The following are acceptable methods for anchoring mulch.
 - Mechanical--Use a disk, crimper, or similar type tool set straight to punch or anchor the mulch material into the soil. Straw mechanically anchored shall not be finely chopped but be left generally longer than 6 in.
 - Mulch Nettings--Use according to the manufacturer's recommendations, following all placement and anchoring suggestions. Use in areas of water concentration and steep slopes to hold mulch in place.
 - Asphalt Emulsion--For straw mulch, apply at the rate of 160 gal./ac. (0.1 gal./sy) into the mulch as it is being applied or as recommended by the manufacture.
 - Synthetic Binders--For straw mulch, synthetic binders such as Acrylic DLR (Agri-Tac), DCA-70, Petroset, Terra Tack or equal may be used at rates recommended by the manufacturer.
 - Wood Cellulose Fiber--Wood cellulose fiber may be used for anchoring straw. The fiber binder shall be applied at a net dry weight of 750 lb./acre. The wood cellulose fiber shall be mixed with water and the mixture shall contain a maximum of 50 lb./100 gal. of wood cellulose fiber.

NON-SEDIMENT POLLUTANTS

No discharge of pollutants associated with dedicated asphalt and concrete plants are permitted on site. This includes, but is not limited to, the discharge of concrete or vehicle wash water.

No solid (other than sediment) or liquid waste, including building materials, shall be discharged in storm water runoff. All wastes must be disposed of in a proper manner in accordance with local, state & federal regulations.

It is prohibited to burn, bury or pour onto the ground or into a storm water conveyance system any solvent, paints, stains, gasoline, diesel fuel, hydraulic fluid, used motor oil, anti-freeze, cement curing compounds and other such solids or hazardous wastes. Any rinse waters containing such materials are prohibited from being placed where they may enter drainageways.

Fueling and equipment maintenance shall be performed in diked areas away from drainage channels.

All contaminated soils must be treated and/or disposed of in Ohio EPA approved solid waste management facilities. If hazardous substances such as oil, diesel fuel, anti-freeze, etc. are leaked onto the soil, the soil should be dug up and disposed of at the local licensed landfill. Spills of 25 gallons or more shall be reported to the OEPA, the local fire department and the local emergency planning committee.

Open burning of waste materials will not be permitted.

All materials stored on site shall be limited to areas which are protected to minimize the exposure of such materials to storm water.

C PERMANENT SEEDING

SITE PREPARATION

1. A subsoiler, plow or other implement shall be used to reduce soil compaction and allow maximum infiltration. (Maximizing infiltration will help control both runoff rate and water quality.) Subsoiling should be done when the soil moisture is low enough to allow the soil to crack or fracture. Subsoiling shall not be done on slip-prone areas where soil preparation should be limited to what is necessary for establishing vegetation.

2. The site shall be graded as needed to permit the use of conventional equipment for seedbed preparation and seeding.

3. Resoil shall be applied where needed to establish vegetation.

SEEDBED PREPARATION

1. Lime--Agricultural ground limestone shall be applied to acid soil as recommended by a soil test. In lieu of a soil test, lime shall be applied at the rate of 100 lb./1,000 sq. ft. or 2 tons/ac.

2. Fertilizer--Fertilizer shall be applied as recommended by a soil test. In lieu of a soil test, fertilizer shall be applied at a rate of 12 lb./1,000 sq. ft. or 500 lb./ac. of 10-10-10 or 12-12-12 analysis.

3. The lime and fertilizer shall be worked into the soil with a disk harrow, spring-tooth harrow, or other suitable field implement to a depth of 3 in. On sloping land the soil shall be worked on the contour.

SEEDING DATES AND SOIL CONDITIONS

Seeding should be done March 1 to May 31 or Aug 1 to September 30. These seeding dates are ideal but, with the use of additional mulch and irrigation, seedings may be made any time throughout the growing season. Tillage/seedbed preparation should be done when the soil is

MULCHING

1. Mulch material shall be applied immediately after seeding. Seedings made during optimum seeding dates and with favorable soil conditions and on very flat areas may not need mulch to achieve adequate stabilization. Dormant seeding shall be mulched.

2. Materials:
 - Straw--If straw is used it shall be unrotted small-grain straw applied at the rate of 2 tons/ac. or 90 lb./1,000 sq. ft. (two to three bales). The mulch shall be spread uniformly by hand or mechanically so the soil surface is covered. For uniform distribution of hand-spread mulch, divide area into approximately 1,000-sq.-ft. sections and spread two 45-lb. bales of straw in each section.
 - Hydroseeders--If wood cellulose fiber is used, it shall be used at 2,000 lb./ac. or 46 lb./1,000 sq. ft.
 - Other--Other acceptable mulches include mulch mattings applied according to manufacturer's recommendations or wood chips applied at 6 tons/ac.
3. Straw Mulch Anchoring Methods

Straw mulch shall be anchored immediately to minimize loss by wind or water.
 - Mechanical--A disk, crimper, or similar type tool shall be set straight to punch or anchor the mulch material into the soil. Straw mechanically anchored shall not be finely chopped but, generally, be left longer than 6 in.

dry enough to crumble and not form ribbons when compressed by hand. For winter seeding, see the following section on dormant seeding.

DORMANT SEEDINGS.

1. Seedings shall not be planted from October 1 through November 20. During this period the seeds are likely to germinate but probably will not be able to survive the winter.

2. The following methods may be used for "Dormant Seeding":
 - From October 1 through November 20, prepare the seedbed, add the required amounts of lime and fertilizer, then mulch and anchor. After November 20, and before March 15, broadcast the selected seed mixture. Increase the seeding rates by 50% for this type of seeding.
 - From November 20 through March 15, when soil conditions permit, prepare the seedbed, lime and fertilize, apply the selected seed mixture, mulch and anchor. Increase the seeding rates by 50% for this type of seeding.
 - Apply seed uniformly with a cyclone seeder, drill, cultipacker seeder, or hydro-seeder (slurry may include seed and fertilizer) on a firm, moist seedbed.
 - Where feasible, except when a cultipacker type seeder is used, the seedbed should be firmed following seeding operations with a cultipacker, roller, or light drag. On sloping land, seeding operations should be on the contour where feasible.

Permanent Seeding			
Seed Mix	Seeding Rate		Notes:
	lb./ac.	lb./1,000ft. ²	
General Use			
Creeping Red Fescue	20-40	½-1	
Domestic Ryegrass	10-20	¼-½	
Kentucky Bluegrass	10-20	¼-½	
Tall Fescue	40	1	
Dwarf Fescue	40	1	
Steep Banks or Cut Slopes			
Tall Fescue	40	1	Do not seed later than August.
Crown Vetch	10	¼	
Tall Fescue	20	½	
Flat Pea	20	½	Do not seed later than August.
Tall Fescue	20	½	
Road Ditches and Swales			
Tall Fescue	40	1	
Dwarf Fescue	90	2 ¼	
Kentucky Bluegrass	5		
Lawns			
Kentucky Bluegrass	60	1 ½	For shaded areas
Perennial Ryegrass	60	1 ½	
Kentucky Bluegrass	60	1 ½	
Creeping Red Fescue	60	1 ½	
Note: Other approved seed species may be substituted.			

1. Permanent seeding shall not be considered established for at least 1 full yr. from the time of planting. Seeded areas shall be inspected for failure and vegetation reestablished as needed. Depending on-site conditions, it may be necessary to irrigate, fertilize, overseed, or reestablish plantings in order to provide permanent vegetation for adequate erosion control.

2. Maintenance fertilization rates shall be established by soil test recommendations or by using the rates shown in the following table.

Maintenance for Permanent Seedings Fertilization and Mowing					
Mixture	Formula	lb./ac.	lb./1,000 ft. ²	Time	Mowing
Creeping Red Fescue Ryegrass Kentucky Bluegrass	10-10-10	500	12	Fall, yearly or as needed.	Not closer than 3"
Tall Fescue	10-10-10	500	12		Not closer than 4"
Dwarf Fescue	10-10-10	500	12		Not closer than 2"
Crown Vetch Fescue	0-20-20	400	10	Spring, yearly following establishment and every 4-7 yr. thereafter	Do not mow
Fiat Pea Fescue	0-20-20	400	10		Do not mow
Note: Following soil test recommendations is preferred to fertilizer rates shown above.					

NOTES:
IF SEASONAL CONDITIONS PROHIBIT THE ESTABLISHMENT OF VEGETATIVE COVER, OTHER METHODS OF STABILIZATION SUCH AS MULCHING WITH A TACKIFIER OR MATTING, MUST BE EMPLOYED AND MAINTAINED UNTIL A MORE PERMANENT METHOD CAN BE IMPLEMENTED.

STORMWATER CONTROLS (INLET PROTECTION, PERIMETER CONTROLS, SKIMMER, ECT.) STAY IN PLACE THROUGHOUT THE HOME BUILDING PHASE.

Table 1: Permanent Stabilization

Area requiring permanent stabilization	Time frame to apply erosion controls
Any areas that will lie dormant for one year or more	Within seven days of the most recent disturbance
Any areas within 50 feet of a surface water of the state and at final grade	Within two days of reaching final grade
Any other areas at final grade	Within seven days of reaching final grade within that area

Table 2: Temporary Stabilization

Area requiring temporary stabilization	Time frame to apply erosion controls
Any disturbed areas within 50 feet of a surface water of the state and not at final grade	Within two days of the most recent disturbance if the area will remain idle for more than 14 days
For all construction activities, any disturbed areas that will be dormant for more than 14 days but less than one year, and not within 50 feet of a surface water of the state	Within seven days of the most recent disturbance within the area
Disturbed areas that will be idle over winter	For residential subdivisions, disturbed areas must be stabilized at least seven days prior to transfer of permit coverage for the individual lot(s).
	Prior to the onset of winter weather

Where vegetative stabilization techniques may cause structural instability or are otherwise unobtainable, alternative stabilization techniques must be employed. Permanent and temporary stabilization are defined in Part VII.

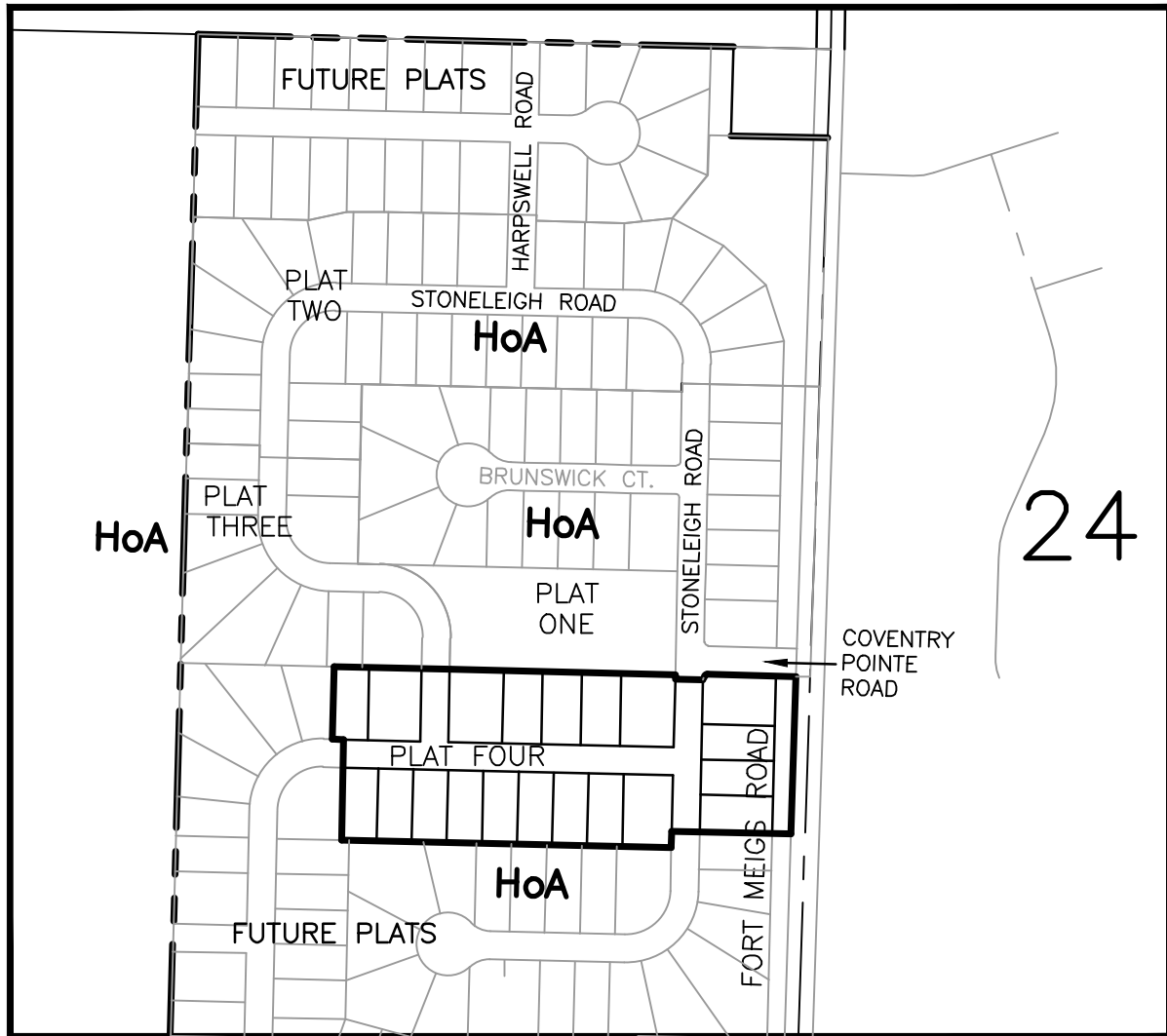
RECORD CONSTRUCTION 8/19/24

IMPLEMENTATION SCHEDULE

- Phase I
SITE PREPARATION PHASE
- ESTIMATED START: JUNE 2023; ESTIMATED COMPLETION: JUNE 2023
 - INSTALL CONSTRUCTION ENTRANCE
 - INSTALL SEDIMENT CONTROL MEASURES
 - EXCAVATE SOUTH BASIN AND INSTALL SKIMMER
 - CLEAR AND GRUB SITE. SEDIMENT CONTROLS TO BE INSTALLED WITHIN 7 DAYS OF GRUBBING ACTIVITY
 - STABILIZATION REQUIRED IF AREA WILL BE DORMANT FOR 14 DAYS OR LONGER
 - THE STORMWATER CONTROLS WILL REMAIN FOR THE DURATION OF THE CONSTRUCTION

- Phase II
SITE UTILITY AND STREET PHASE
- ESTIMATED START: JUNE 2023; ESTIMATED COMPLETION: NOVEMBER 2023
 - INSTALL UNDERGROUND UTILITIES
 - INSTALL INLET CONTROLS
 - INSTALL CONCRETE WASHOUT
 - EXCAVATE AND BUILD ROADWAYS
 - GRADE BACK OF CURB AND SWALES
 - COMPLETE ROUGH GRADING
 - INSTALL TEMPORARY SEEDING
 - STABILIZATION WILL BE REQUIRED DURING AND AFTER THIS PHASE
 - STORMWATER CONTROLS WILL REMAIN FOR DURATION OF THE CONSTRUCTION

- Phase III
HOME BUILDING AND SITE FINISHES
- ESTIMATED START: NOVEMBER 2023; ESTIMATED COMPLETION: NOVEMBER 2024
 - HOME BUILDER TO APPLY FOR INDIVIDUAL LOT NOTICE OF INTENT (NOI)
 - INSTALL INDIVIDUAL FAMILY LOT EROSION CONTROLS
 - BUILD HOUSES
 - COMPLETE FINAL GRADING
 - INSTALL PERMANENT SEEDING
 - HOME BUILDER SUBMIT INDIVIDUAL LOT NOTICE OF TERMINATION (NOT) AS LOTS ARE STABILIZED
 - REMOVE SEDIMENT CONTROLS
 - DEVELOPER TO SUBMIT ENTIRE SITE NOT
 - STABILIZATION WILL BE REQUIRED DURING AND AFTER THIS PHASE



SOILS MAP
(PER USDA WEB SOIL SURVEY WEBSITE)
NTS
HoA = HOYTVILLE CLAY LOAM

FELLER, FINCH & ASSOCIATES, INC.			
REVISION	DATE	DESIGN BY:	AMF
		DRAWN BY:	AMF
		DATE:	11-16-21
		CHK'D BY:	GNF
		DRAWING:	10-088690P01A1

- a. Meet minimum standards for CCTV inspection of sewers as prepared by the National Association of Sewer Service Companies (NASSCO).
- b. Log Sheet: A written log sheet must accompany each DVD/ICD.
- c. For new sewers, Contractor shall utilize and make reference to manhole numbering as shown and indicated on the project Drawings.
- d. For existing sewers, Contractor shall prepare and provide a map indicating manhole numbering.
- e. Reference to new and existing manhole numbers on the DVD/ICD, summary report, and pictures shall be consistent with the numbering sequence on the Drawings and on the map provided by Contractor.

3.6 LOCAL ROADS (UNLESS OTHERWISE APPROVED OR DIRECTED)

- A. Prepare subgrade in accordance with ODOT Item 203. Where it is necessary to construct pavement subgrade in fill, remove the existing topsoil beneath the proposed subgrade.
- B. Asphalt Concrete Pavement:
- ODOT Item 304; construct a 10-inch thick aggregate base in two equal lifts.
 - ODOT Item 408; apply prime coat at the rate of 0.35 gallons per square yard to the aggregate base. Installation to as be directed by the City.
 - ODOT Item 448; construct a 2-inch thick asphalt concrete intermediate course.
 - ODOT Item 448; construct a 1-1/2-inch thick asphalt concrete surface course.
 - ODOT Item 407; apply tack coat at the rate of 0.04 gallons per square yard to be placed between intermediate and surface course and joints.
 - Pavement sealer, apply as instructed by manufacturer.
- C. Concrete Driveways and Parking Areas: ODOT Item 452.
- D. Concrete Curbs: ODOT Item 609.04 Type 2 Combination Curb and Gutter or Type 6 Curb.
- E. Pipe Underdrains: ODOT Item 605.03, and as shown on ODOT Standard drawing DM-1.2 and approved Drawings.

3.7 MONUMENT ASSEMBLY (IN PAVED AREAS)

- A. Place Type C monuments in accordance with ODOT Item 604, and Standard Construction Drawing RM-1.1.

3.8 CURB RAMP DETECTABLE WARNING TRUNCATED DOMES

- A. Material to be supplied shall meet ODOT's Office of Roadway Engineering Services Truncated Domes Approved List.

PAVEMENT AND STORM SEWER SPECIFICATIONS

- B. Installation shall be in accordance with ODOT's latest Standard Construction Drawings for New Curb Ramps (with Truncated Domes) BP-7.1 and Retrofitted Curb Ramps BP-7.2.
- C. All curb ramps/retrofitted curb ramps shall include new ODOT Class C concrete where truncated dome material is to be installed.
- D. The City will approve proposed material to be installed.

3.9 FIELD QUALITY CONTROL

- A. The City may check compaction of the bedding and backfill at any time.
- B. All testing shall be in the presence of the City or its' representative.
- C. For compacted bedding and backfill in trenches and for concrete work, the City may require the employing a testing laboratory to make tests on Site.

- The City will pay for required testing that meets the City bedding and backfilling specifications.
- Contractor shall pay for any retesting required to meet specifications.

D. Deflection Test:

- Test 8-inch diameter and larger PVC plastic pipe for a maximum deflection of 5 percent not less than 30 days after final full backfill has been placed, as determined by the City.
- Conduct deflection tests with a representative of the City present.
- Repair or replace pipes exceeding a deflection of 5 percent and then retest until satisfactory test results are obtained. Retesting shall not take place prior to 30 days after the pipe repair/replacement and backfill have occurred. For sewers requiring retesting for deflection and previously tested for leakage, upon obtaining satisfactory deflection test results, retest the affected sewer section for leakage.
- Conduct tests by pulling an approved deflection probe, having a diameter not less than 95 percent of the base inside diameter or average inside diameter of the pipe depending on which is specified in the ASTM Specification, including the appendix, to which the pipe is manufactured, through the sewer line without mechanical pulling devices. Have a proving ring with an inside diameter equal to the outside diameter of the probe available at the time the probe is used to verify that the probe has the proper diameter by inserting the probe into the ring. The pipe shall be measured in accordance with ASTM D2122.
- Deflection Probe: By Wortco, Inc., Burke Concrete Accessories, Inc., or as approved; designed specifically for testing the deflection of the type and size of pipe subject to test, and complying with the following:

- a. Odd number (no less than 9) of 1/2 inch by 3/16 inch bar stock runners equally spaced on edge around and welded to the circumference of two minimum 1/4 inch thick circular steel plates.
- b. Distance between plates, out-to-out, of not less than 2 inches smaller than the nominal diameter of the pipe to be tested, with runners extending approximately 1-1/2 inches beyond each plate being bent inward for this distance at approximately 30 degrees.
- c. Continuous 3/4-inch threaded rod through the center of the plates, having a hex nut drawn tight against the inside face of each plate, and extending each side as required for providing a 3/4-inch ferrule loop insert or similar piece for attaching the pulling medium.

3.10 MAINTENANCE OF TRAFFIC

- A. Two-way traffic shall be maintained at all times on dedicated roads. If construction along dedicated roads interferes with traffic, Contractor shall provide two flaggers and other traffic control devices in accordance with the latest edition of the Ohio Manual of Uniform Traffic Control Devices.

SUMMARY INFORMATION FOR STORM WATER QUALITY IN EX. NORTH POND

CONTRIBUTING DRAINAGE AREA	CONTRIBUTING DISTURBED AREA (AC.)	SEDIMENT BASIN (DURING CONSTRUCTION)			PERMANENT STORMWATER FACILITY (POST CONSTRUCTION)		
		DEWATERING VOLUME	SEDIMENT STORAGE VOLUME	SKIMMER ORIFICE SIZE	WATER QUALITY VOLUME-WQv	DETENTION TIME	WQv ORIFICE SIZE
		(CU. FT.)	(CU. FT.)	(INCHES)	(CU. FT.)	(HOURS)	(SQ. IN.)
PLAT FOUR = 10.77 AC	PLAT FOUR = 10.73 AC	REQUIRED VOLUME = 19,386	REQUIRED VOLUME = 10,730	3"	N/A DURING CONSTRUCTION		
		PROVIDED VOLUME = 20,945	PROVIDED VOLUME = 131,325				
ENTIRE AREA = 32.82 AC	ENTIRE AREA = 35.03 AC	REQUIRED VOLUME = 59,076	REQUIRED VOLUME = 41,506	3"	REQUIRED VOLUME = 32,382	24.64	14.72
		PROVIDED VOLUME = 61,614	PROVIDED VOLUME = 131,325		PROVIDED VOLUME = 33,820		

PROP. SOUTH POND DATA	
TYPE OF CONSTRUCTION:	LOW DENSITY RESIDENTIAL
PLAT AREA TO SOUTH POND:	10.77 AC.
PLAT FOUR DISTURBED AREA TO SOUTH POND:	10.73 AC.
ENTIRE DISTURBED AREA TO SOUTH POND	35.03 AC.
ENTIRE AREA DRAINING INTO SOUTH POND	32.82 AC.
PRE-CONSTRUCTION RUNOFF COEFFICIENT:	0.10
POST-CONSTRUCTION RUNOFF COEFFICIENT:	0.50
IMPERVIOUS AREA:	2.8 AC.
% IMPERVIOUS AFTER CONSTRUCTION:	26%
SOIL TYPE (HYDROLOGIC GROUP):	D
PRIOR LAND USE:	CROP FARMING
RECEIVING STREAM:	FORT MEIGS DITCH
SEDIMENT STORAGE VOLUME REQUIRED FOR PLAT FOUR (1000 CU. FT. PER DISTURBED ACRE)	10,730 CU. FT.
SEDIMENT STORAGE VOLUME REQUIRED FOR ENTIRE DISTURBED AREA TO SOUTH POND	41,506 CU. FT.
SEDIMENT STORAGE VOLUME PROVIDED - SOUTH POND	131,325 CU. FT.
DEWATERING VOLUME REQUIRED - PLAT FOUR DRAINAGE AREA (1800 CU. FT. PER ACRE DRAINING IN)	19,386 CU. FT.
DEWATERING VOLUME REQUIRED - ENTIRE DRAINAGE AREA TO SOUTH POND	59,076 CU. FT.
DEWATERING VOLUME PROVIDED - (PLAT FOUR)	20,945 CU. FT.
DEWATERING VOLUME PROVIDED - ENTIRE DRAINAGE AREA TO SOUTH POND	61,614 CU. FT.
WATER QUALITY DETENTION VOLUME REQUIRED - ENTIRE AREA TO SOUTH POND	32,382 CU. FT.
WATER QUALITY DETENTION VOLUME PROVIDED - ENTIRE AREA TO SOUTH POND	33,820 CU. FT.

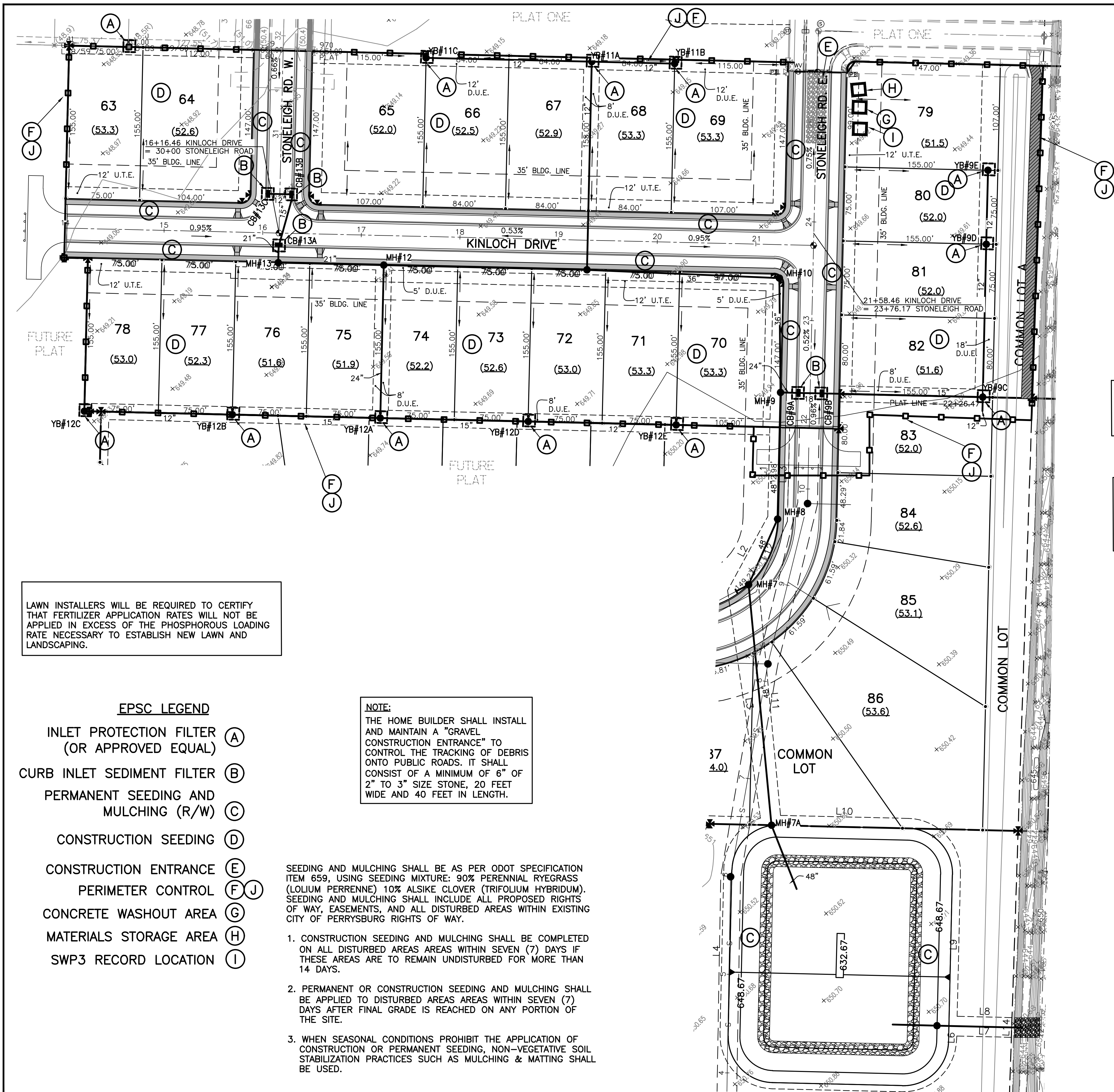
EX. NORTH POND WATER QUANTITY

STORAGE VOLUME REQUIRED	= 134,458 CU. FT.
STORAGE VOLUME PROVIDED	= 134,645 CU. FT.
NORMAL WATER ELEVATION	= 644.67
100 YR. WATER ELEVATION	= 648.37
10 YR. WATER ELEVATION	= 646.67

RECORD CONSTRUCTION 8/19/24

20
22

10E08869-4



EASEMENT ABBREVIATIONS			
S.E.		SANITARY EASEMENT	
D.U.E.		DRAINAGE & UTILITY EASEMENT	
U.T.E.		UTILITY & TOLEDO EDISON EASEMENT	



FELLER, FINCH & ASSOCIATES, INC.			
REVISION	DATE	DESIGN BY:	AMF
		DRAWN BY:	AMF
		DATE:	11-16-21
		CHK'D BY:	GNF
		DRAWING:	10-08869P01A1

LEGEND

- EXISTING GROUND ELEVATIONS
EXISTING CONTOURS
PROPOSED ELEVATIONS (00.0)
PROPOSED GROUND ELEVATIONS AT HOUSE (00.0)
PROPOSED = EXISTING (00.0E)
PROPOSED TOP OF WALK ELEVATIONS (00.0W)
PROPOSED RIM ELEVATIONS (00.0R)
ADD 600.00 TO ALL PROPOSED SPOT ELEVATIONS.
ALL PAVEMENT GRADES ARE TOP OF CURB.
- = IRON PIN (BY SURVEYOR)
⊕ = MONUMENT ASSEMBLY (ODOT RM-1.1) BY CONTRACTOR
⊗ = EXISTING MONUMENT ASSEMBLY
✱ = MONUMENT ASSEMBLY (WOOD COUNTY, TYPE A) BY SURVEYOR
= CONCRETE WALK & RAMPS BY OTHERS.
= CONCRETE WALK BY CONTRACTOR
= 10' ASPHALT PATH BY CONTRACTOR

BENCH MARK DATA

- WOOD COUNTY BENCH MARK
MC0668 USGS SURVEY DISC IN CONCRETE MONUMENT
SOUTHWEST CORNER OF THE INTERSECTION OF HULL
PRAIRIE ROAD & FIVE POINT ROAD.
ELEVATION 650.10
SITE BENCH #201
MAG NAIL SET IN WEST FACE OF 2ND POWER POLE SOUTH
OF ROACHTON ROAD ON FORT MEIGS ROAD.
ELEVATION 651.45
SITE BM #202
MAG NAIL SET IN WEST FACE OF 1ST POWER POLE NORTH
OF FIVE POINT ROAD ON FORT MEIGS ROAD.
ELEVATION 653.08

NOTE:
THE DEVELOPER IS RESPONSIBLE FOR KEEPING THE
STORM SEWERS CLEAN DURING CONSTRUCTION UNTIL
HOME LOT CONSTRUCTION IS COMPLETED.

NOTE:
NO SURFACE WATER SHALL BE ALLOWED TO RUN OFF
THE SITE UNTIL FINAL GRADING IS COMPLETED. THE
CONTRACTOR SHALL DIVERT ALL SURFACE WATER TO
REMAIN ON SITE; AND MAINTAIN ALL TEMPORARY
SEDIMENT AND EROSION CONTROL FEATURES.

THE CONTRACTOR SHALL INSTALL AND MAINTAIN A
"CONSTRUCTION ENTRANCE" WHERE PROPOSED ROAD
MEETS EXISTING ROAD. IT SHALL CONSIST OF A
MINIMUM OF 6" OF 2" TO 3" SIZE STONE, 20 FEET
WIDE AND 70 FEET IN LENGTH. THE LUMP SUM
PRICE BID FOR ITEM 207 "TEMPORARY CONSTRUCTION
ENTRANCE" SHALL INCLUDE ALL COSTS FOR
INSTALLATION AND REMOVAL AS REQUIRED.

OWNER CERTIFICATION:
I certify under penalty of law that this document and all
attachments were prepared under my direction or supervision in
accordance with a system designed to assure that qualified
personnel properly gathered and evaluated the information
submitted. Based on my inquiry of the person or persons who
manage the system or those persons directly responsible for
gathering the information, the information submitted is, to the
best of my knowledge and belief, true, accurate and complete.
I am aware that there are significant penalties for submitting
false information, including the possibility of fine and
imprisonment for knowing violations.

NAME _____

NOTE:
A COMPLETE SWP3 PACKET SHOULD BE AVAILABLE ONSITE AT A
MAILBOX OR JOB TRAILER AT ALL TIMES DURING WORKING
HOURS. THE SWP3 PACKET SHALL INCLUDE:

- THE SWP3 PLANS
- A COPY OF THE NOI AND APPROVAL FROM THE EPA
- INSPECTION LOGS OF WEEKLY INSPECTIONS AND INSPECTIONS
AFTER A 1/2" RAIN EVENT.
- SUB-CONTRACTOR SIGN-OFF LOGS, SHARING AWARENESS OF
THE SWP3

SHALL BE IN CHARGE OF ALL
INSPECTIONS AND FELLER, FINCH & ASSOCIATES, INC. SHALL BE
IN CHARGE OF REVISIONS DURING CONSTRUCTION.

LAWN INSTALLERS WILL BE REQUIRED TO CERTIFY
THAT FERTILIZER APPLICATION RATES WILL NOT BE
APPLIED IN EXCESS OF THE PHOSPHOROUS LOADING
RATE NECESSARY TO ESTABLISH NEW LAWN AND
LANDSCAPING.

- EPSC LEGEND
- INLET PROTECTION FILTER (OR APPROVED EQUAL) (A)
CURB INLET SEDIMENT FILTER (B)
PERMANENT SEEDING AND MULCHING (R/W) (C)
CONSTRUCTION SEEDING (D)
CONSTRUCTION ENTRANCE (E)
PERIMETER CONTROL (F) (J)
CONCRETE WASHOUT AREA (G)
MATERIALS STORAGE AREA (H)
SWP3 RECORD LOCATION (I)

NOTE:
THE HOME BUILDER SHALL INSTALL
AND MAINTAIN A "GRAVEL
CONSTRUCTION ENTRANCE" TO
CONTROL THE TRACKING OF DEBRIS
ONTO PUBLIC ROADS. IT SHALL
CONSIST OF A MINIMUM OF 6" OF
2" TO 3" SIZE STONE, 20 FEET
WIDE AND 40 FEET IN LENGTH.

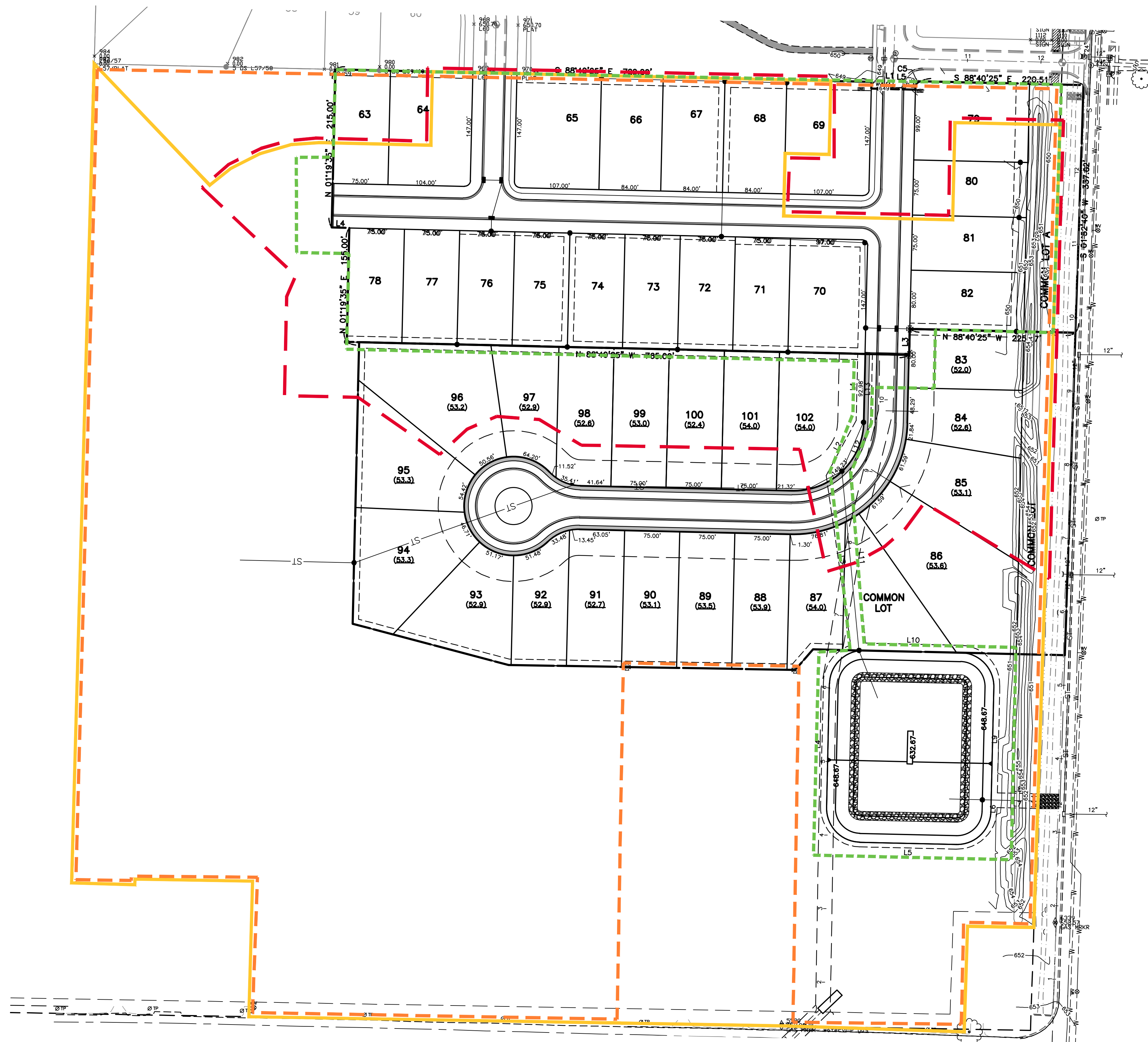
- SEEDING AND MULCHING SHALL BE AS PER ODOT SPECIFICATION
ITEM 659, USING SEEDING MIXTURE: 90% PERENNIAL RYEGRASS
(LOLIUM PERENNE) 10% ALSIKE CLOVER (TRIFOLIUM HYBRIDUM).
SEEDING AND MULCHING SHALL INCLUDE ALL PROPOSED RIGHTS
OF WAY, EASEMENTS, AND ALL DISTURBED AREAS WITHIN EXISTING
CITY OF PERRYSBURG RIGHTS OF WAY.
1. CONSTRUCTION SEEDING AND MULCHING SHALL BE COMPLETED
ON ALL DISTURBED AREAS WITHIN SEVEN (7) DAYS IF
THESE AREAS ARE TO REMAIN UNDISTURBED FOR MORE THAN
14 DAYS.
 2. PERMANENT OR CONSTRUCTION SEEDING AND MULCHING SHALL
BE APPLIED TO DISTURBED AREAS WITHIN SEVEN (7)
DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF
THE SITE.
 3. WHEN SEASONAL CONDITIONS PROHIBIT THE APPLICATION OF
CONSTRUCTION OR PERMANENT SEEDING, NON-VEGETATIVE SOIL
STABILIZATION PRACTICES SUCH AS MULCHING & MATTING SHALL
BE USED.

SEE SHEET 13 FOR
EXISTING WATER QUALITY
OUTLET STRUCTURE.
SEE EROSION CONTROL
NOTES AND DETAILS ON
SHEETS 21-23.
SEE SHEET 23 FOR
WATER QUALITY
INFORMATION
AND IMPLEMENTATION
SCHEDULE

RECORD CONSTRUCTION 8/19/24



FELLER, FINCH & ASSOCIATES, INC.			
REVISION	DATE	DESIGN BY:	AMP
		DRAWN BY:	AMP
		DATE:	11-16-21
		CHK'D BY:	GNF
		DRAWING:	10-08869P01A1



- ENTIRE DRAINAGE AREA TO SOUTH POND = 35.36 Ac.
- PLAT FOUR DRAINAGE AREA TO SOUTH POND = 10.77 Ac.
- ENTIRE DISTURBED AREA TO SOUTH POND = 35.03 Ac.
- PLAT FOUR DISTURBED AREA = 10.73 Ac.

SEE EROSION CONTROL
NOTES AND DETAILS ON
SHEETS 18-21.

RECORD CONSTRUCTION 8/19/24

SANITARY SEWER IMPROVEMENTS
FOR
Coventry Pointe Plat Four

CITY OF PERRYSBURG, WOOD COUNTY, OHIO

INDEX OF SHEETS

TITLE SHEET	1
GENERAL NOTES & DETAILS	2-5
PLAN AND PROFILE	6

BENCH MARK DATA

WOOD COUNTY BENCH MARK
MC0668 USGS SURVEY DISC IN CONCRETE MONUMENT
SOUTHWEST CORNER OF THE INTERSECTION OF HULL
PRAIRIE ROAD & FIVE POINT ROAD.

ELEVATION 650.10'

SITE BENCH #201
MAG NAIL SET IN WEST FACE OF 2ND POWER POLE
SOUTH OF ROACHTON ROAD ON FORT MEIGS ROAD.

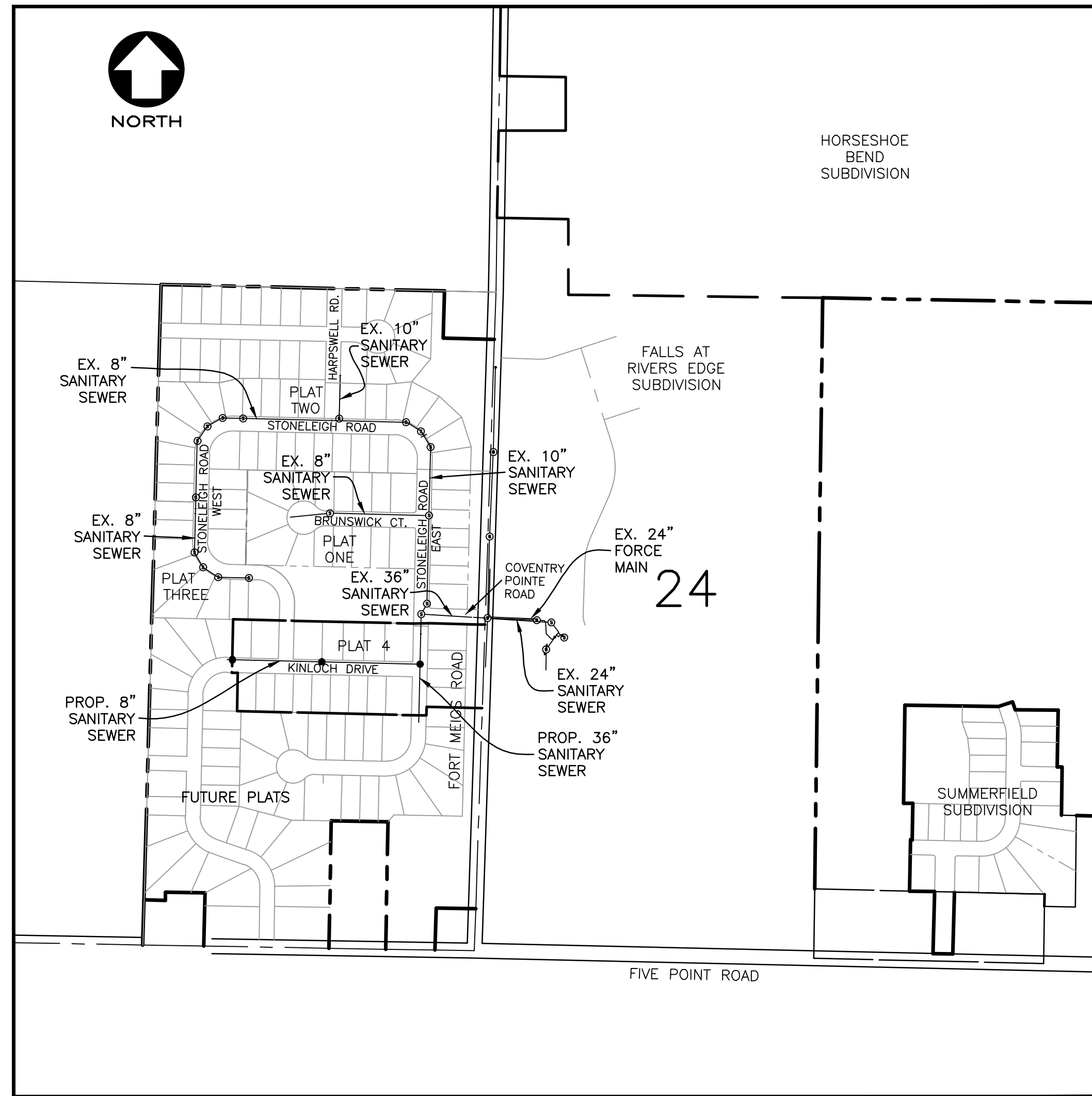
ELEVATION 651.45

SITE BM #202
MAG NAIL SET IN WEST FACE OF 1ST POWER POLE
NORTH OF FIVE POINT ROAD ON FORT MEIGS ROAD.

ELEVATION 653.08

CONVENTIONAL SIGNS

	PROPOSED	EXISTING
SANITARY SEWER	—S—	—S—
STORM SEWER	—ST—	—ST—
WATERMAIN	—W—	—W—
SANITARY MANHOLE	●	⊙
STORM MANHOLE	●	⊙
CATCH BASIN	■	⊞
YARD BASIN	●	⊙
WATER VALVE IN MANHOLE	●	⊙
HYDRANT	●	⊙
CENTERLINE	—+—	—+—
ODOT RM-1.1 MONUMENT	⊕	⊕
WOOD COUNTY TYPE A MONUMENT ASSEMBLY	⊕	⊕



KEY MAP
SCALE: 1"=400'

SANITARY SEWER SUMMARY

ITEM	QTY.	UNIT	DESCRIPTION
611	291	FT.	6" CONDUIT, TYPE B
611	524	FT.	6" CONDUIT, TYPE C
611	81	FT.	8" CONDUIT, TYPE B
611	698	FT.	8" CONDUIT, TYPE C
611	350	FT.	36" CONDUIT, TYPE B
611	119.57	VERT. FT.	6" RISER
611	65.72	VERT. FT.	6" DROP CONNECTION
611	7.37	VERT. FT.	8" DROP CONNECTION
611	98.78	VERT. FT.	SANITARY DROP MANHOLE INCLUDING CASTING (4)
NON-BID ITEMS			
	8	EACH	6" ON 6" DBL. WYE
	30	EACH	6" PLUG
	1	EACH	8" PLUG
	1	EACH	36" PLUG

APPROVALS:

CITY OF PERRYSBURG
DIRECTOR OF PUBLIC UTILITIES
MATTHEW P. CHOMA, P.E.

DEVELOPED BY:

COVENTRY GLEN LTD.
3150 REPUBLIC BLVD.
SUITE 3
TOLEDO, OHIO 43615
PHONE: (419) 841-4831

NAME
DATE

RECORD CONSTRUCTION 8/19/24



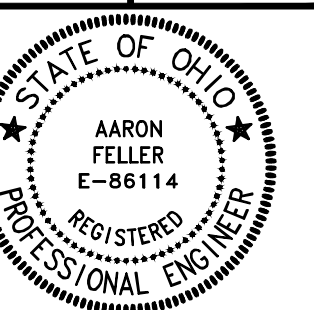
OHIO UTILITIES
PROTECTION SERVICE
CALL 1-800-362-2764
TWO WORKING DAYS
BEFORE YOU DIG
NON-MEMBERS MUST BE
CALLED DIRECTLY

1683 Woodlands Drive, Maumee, Ohio 43537
Phone: (419) 893-3880
Fax: (419) 893-2982
www.tellerfinch.com

TellerFinch
& ASSOCIATES, INC.
Engineers • Surveyors

SANITARY SEWER

COVENTRY POINTE PLAT FOUR



SIGNED
DATE
DATE: 02-15-23
PROJECT: 10E08869

1
6

PAVEMENT AND SANITARY SEWER SPECIFICATIONS

3. 10 inches ODOT Item 304, Aggregate Base (placed in 2 lifts).
4. On aggregate base, apply ODOT Item 408 Prime Coat at rate of 0.35 gallons per square yard. Installation to be directed by the City.
5. ODOT Item 407: apply tack coat at the rate of 0.04 gallons per square yard to be placed between intermediate and surface courses and joints.
6. Sealer for Contact and Mating Surfaces and Joints: Comply with ODOT Items 401.14 and 401.17.
7. Pavement Sealer: When requested by and as approved by the City.

- C. Concrete Driveways and Parking Areas: ODOT Item 452.

- D. Concrete Curbs: ODOT Item 609.04 Type 2 Combination Curb and Gutter or Type 6 Curb.

- E. Pipe Underdrains: ODOT Item 605.03, and as shown on ODOT Standard drawing DM-1.2 and approved Drawings.

3.7 MONUMENT ASSEMBLY (IN PAVED AREAS)

- A. Place Type C monuments in accordance with ODOT Item 604, and Standard Construction Drawing RM-1.1.

3.8 CURB RAMP DETECTABLE WARNING TRUNCATED DOMES

- A. Material to be supplied shall meet ODOT's Office of Roadway Engineering Services Truncated Domes Approved List.

- B. Installation shall be in accordance with ODOT's latest Standard Construction Drawings for New Curb Ramps (with Truncated Domes) BP-7.1 and Retrofitted Curb Ramps BP-7.2.

- C. All curb ramps/retrofitted curb ramps shall include new ODOT Class C concrete where truncated dome material is to be installed.

- D. The City will approve proposed material to be installed.

3.9 FIELD QUALITY CONTROL

- A. The City may check compaction of the bedding and backfill at any time.

- B. All testing shall be in the presence of the City or its representative.

- C. For compacted bedding and backfill in trenches and for concrete work, the City may require the employing of a testing laboratory to make tests on site.

1. The City shall pay for required testing that meets the City bedding and backfilling specifications.

2. Contractor shall pay for any retesting required to meet specifications.

D. Deflection Test:

1. Test 8-inch diameter and larger PVC plastic pipe for a maximum deflection of 5 percent not less than 30 days after final full backfill has been placed, as determined by the City.
2. Conduct deflection tests with a representative of City present.
3. Repair or replace pipes exceeding a deflection of 5 percent and then retest until satisfactory test results are obtained. Retesting shall not take place prior to 30 days after pipe repair/replacement and backfill have occurred. For sewers requiring retesting for deflection and previously tested for leakage, upon obtaining satisfactory deflection test results, retest the affected sewer section for leakage.

4. Conduct tests by pulling an approved deflection probe, having a diameter not less than 95 percent of the base inside diameter or average inside diameter of the pipe depending on which is specified in the ASTM Specification, including the appendix, to which the pipe is manufactured, through the sewer line without mechanical pulling devices. Have a proving ring with an inside diameter equal to the outside diameter of the probe available at the time the probe is used to verify that the probe has the proper diameter by inserting the probe into the ring. The pipe shall be measured in accordance with ASTM D2122.

5. Deflection Probe: By Wortco, Inc., Burke Concrete Accessories, Inc., or as approved; designed specifically for testing the deflection of the type and size of pipe subject to test, and complying with the following:

- a. Old number (no less than 9) of 1/2 inch by 3/16 inch bar stock runners equally spaced on edge around and welded to the circumference of two minimum 1/4 inch thick circular steel plates.

- b. Distance between plates, cut-to-out, of not less than 2 inches smaller than the nominal diameter of the pipe to be tested, with runners extending approximately 1-1/2 inches beyond each plate being bent inward for this distance at approximately 30 degrees.

- c. Continuous 3/4-inch threaded rod through the center of the plates, having a hex nut drawn tight against the inside face of each plate, and extending each side as required for providing a 3/4-inch female loop insert or similar piece for attaching the pulling medium.

E. Sanitary Sewer Leakage Testing:

1. Performance Requirements

- a. Perform leakage testing for the entire length of Work after deflection testing, where possible. If leakage testing is performed before deflection testing, a test section failing deflection testing shall be retested for leakage after acceptable deflection testing.
- b. Perform with representative of the City present.

- c. Judgment of City's representative as to the acceptance of tests is final.

2. Preparation:

- a. Test each section of pipe for obstructions prior to testing for leakage using mandrels, solid cylinders, or balls with diameters of 95 percent of the pipe diameter. Remove obstructions.

- b. Determine ground water level by installing ground water gages in manholes as selected by the City. Gages shall consist of a rigid section of 1/2 inch diameter pipe, approximately 10 inches long, inserted horizontally through the manhole wall as near as possible to pipe crown, sealing any opening around the pipe water-tight, and a clear plastic tube attached to the pipe within the manhole and extended vertically to the top of the manhole. Prior to connecting the tube, blow air through the pipe with sufficient pressure to clear the line. Upon satisfactory completion of leakage testing, remove gages and permanently close openings in the manhole walls with non-shrink and non-metallic grout.

- c. Conduct an infiltration test on the main line sewer when pipe crown is covered with two feet or more of water at the highest point in the test section. Should ground water not provide sufficient head, flood trench within test section, bulkheading each end, to obtain or maintain the specified external head.

- d. Plugs used during leakage tests shall be of a length at least equal to the diameter of the pipe being tested to ensure a watertight seal.

3. Infiltration Tests:

- a. The length of sewer subject to each test shall be the distance between two adjacent manholes as a minimum, 700 feet as a maximum, but shall be left to the discretion of the City.

- b. Isolate test section and cap or plug all service connections and slubs within the section to prevent the entry of ground water.

- c. Measure infiltration by a V-notch weir located in the downstream manhole.

- d. Maintain test head for not less than 24 hours before a weir measurement is made.

- e. Maximum allowable leakage, including manholes, shall be 100 gallons per inch of diameter per mile of pipe per day.

4. Exfiltration Tests

- a. The length of sewer subject to an exfiltration test shall be the distance between two adjacent manholes as a minimum, 700 feet as a maximum, but shall be left to the discretion of the City.

- b. Close upstream and downstream manhole inlets with water-tight plugs and fill the test section with water until the elevation of the water in the upstream manhole is 2 feet above pipe crown in the line being tested, or 2 feet above the existing ground water in the trench, whichever is higher.

MINIMUM TEST TIMES IN SECONDS			
MANHOLE DEPTH	84"	96"	108"
8' or less	40	48	56
10'	50	58	67
12'	59	69	79
14'	68	80	92
16'	77	91	104
18'	87	102	116
20'	97	113	129
22'	106	123	140
24'	116	135	152
26'	125	148	168
28'	135	157	179
30'	144	168	192
32'	154	179	204
34'	162	190	217
36'	172	201	229
38'	182	213	242
40'	191	223	254

* When there is a transition involved, add the times for each size based on the depth associated with each size.

7. Repair/Replacement

- a. For any sewer test section failing to meet the limits of the Specifications, locate and remedy the defects causing the failure, retest the section, and continue repairs or replacement until the limits of the Specifications are satisfied.

- b. For sewers not accessible, should a test fail due to other than a leaking plug, conduct a closed circuit television inspection of the test section to determine the cause of the failure.

- c. When failure is the result of a leaking sewer joint, the joint may be chemically grouted.

- d. Television inspection and chemical grouting of sewer joints shall comply with all applicable "Recommended Specifications for Sewer Collection System Rehabilitation" of the National Association of Sewer Service Companies as approved by the City. Furnish the City two copies of a DVD/CD of all television inspections.

- e. If a manhole test is unsuccessful, make repairs and retest until a satisfactory test is obtained.

- f. Repair all visible leakage in sewers and manholes, even though tests may have been satisfactory.

PAVEMENT AND SANITARY SEWER SPECIFICATIONS

3.10 MAINTENANCE OF TRAFFIC

Two way traffic shall be maintained at all times on dedicated roads. If construction along dedicated roads interferes with traffic, Contractor shall provide two flaggers and other traffic control devices in accordance with the latest edition of the Ohio Manual of Uniform Traffic Control Devices

C:\Users\insommers\Desktop\11x17 sanitary specifications_revised_01-24-2017.docx

Page 5 of 7

JANUARY 2017

Page 7 of 7

JANUARY 2017

PAVEMENT AND SANITARY SEWER SPECIFICATIONS

- c. A standpipe may be used instead of the upstream manhole for providing the pressure head when approved by the City.
- d. Measure exfiltration by determining the amount of water required to maintain the initial water elevation for 1 hour from the start of the test.
- e. Maximum allowable leakage, including manholes, shall be 100 gallons per inch of diameter per mile of pipe per day.

5. Air Tests:

- a. Conduct an air test between each two consecutive manholes.
- b. Pneumatic plugs shall be able to resist internal pressures without external blocking.
- c. Plug each end of the section to be tested and all pipe outlets in the section with suitable test plugs.

- d. One plug used at a manhole shall have an inlet tap or other provision for connecting an air hose from the air supply equipment.

- e. The equipment shall include valves to control the rate at which air flows into the test section and pressure gages with minimum graduations of 0.1 psi and an accuracy of +0.04 psi to monitor the air pressure within the test section.

- f. Apply air pressure slowly to the test section until the pressure reaches 4.0 psi, plus an adjustment of 0.433 psi for each foot of ground water above the pipe crown in the line being tested. Internal air pressure, including adjustment for ground water, should never exceed 5.0 psi.

- g. When the pressure reaches 4.0 psi, plus adjustment for ground water, throttle the air supply so that the internal pressure is maintained between 4.0 and 3.5 psi for at least 2 minutes to permit temperature stabilization. When the pressure has stabilized and is at or above 3.5 psi, disconnect the air supply, start a stopwatch, and allow stopwatch to run until the pressure has dropped 1.0 psi.

- h. Sewers of Plastic Pipe 27 Inches Diameter and Smaller: Calculate the permissible time allocated for the 1.0 psi pressure drop on the basis of the diameter and length of main sewer tested, no adjustment being made for service connections included in the test section. The air test for a section shall be considered acceptable if the time elapsed for the 1.0 psi pressure drop is equal to or greater than the time indicated, and shall be considered unacceptable if the elapsed time is less than that indicated in the following table:

MINIMUM HOLDING TIME IN MINUTES: SECONDS REQUIRED FOR 1.0 PSI PRESSURE DROP **				
PIPE DIAMETER	100"	150"	200"	250"
4"	3:46	3:46	3:46	3:46

6"	5:40	5:40	5:40	5:40
8"	7:34	7:34	7:34	7:34
10"	9:26	9:26	9:26	9:53
12"	11:20	11:20	11:24	14:16
14"	14:10	14:10	17:48	22:15
16"	17:00	19:13	25:38	32:03
21"	19:50	26:10	34:54	43:37
24"	22:47	34:11	45:34	56:58
27"	28:51	43:16	57:41	72:07

MINIMUM HOLDING TIME IN MINUTES: SECONDS REQUIRED FOR 1.0 PSI PRESSURE DROP **				
PIPE DIAMETER	100"	150"	200"	250"
4"	3:46	3:46	3:46	3:46
6"	5:40	5:40	5:42	6:24
8"	7:36	8:52	10:08	11:24
10"	11:52	13:51	15:49	17:48
12"	17:05	19:36	22:47	25:38

MINIMUM HOLDING TIME IN MINUTES: SECONDS REQUIRED FOR 1.0 PSI PRESSURE DROP **				
PIPE DIAMETER	100"	150"	200"	250"
15"	26:42	31:09	35:36	40:04
18"	38:27	44:52	51:16	57:41
21"	52:21	61:00	69:48	78:31
24"	68:22	79:46	91:10	102:33
27"	86:32	100:57	115:22	129:48

* Interpolate time for intermediate lengths.

** If the test section fails and service connections were included in the test, re-compute test time to include service connections in accordance with 9.6 of ASTM F1417.

- i. Sewers 30 inches in Diameter and Larger: Conduct individual air tests at joints, and lift holes, along with visual inspection. Perform air tests in accordance with all applicable requirements, with a test to be acceptable if the pressure holds or drops less than 1 psi in 5 seconds.

- j. Sections may be air tested before backfilling the trench as a check for defects and workmanship, but such tests are at CONTRACTOR's option and are not a substitute for tests required after backfilling has been completed.

- k. For main line sewers tested by infiltration or exfiltration, conduct air tests for the purpose of testing service connections even when the crown of the pipe is covered with 2 feet or more of water. For such tests, the internal air pressure shall never exceed 5.0 psi, and the acceptability of the tests will be based on the minimum holding time specified for the size of the main line sewer.

6. Manhole Tests:

- a. Test each manhole after assembly and after all lift holes have been plugged with non-shrink grout and, at Contractor's option, before or after completing backfilling.

- b. Test by drawing a vacuum on the manhole using equipment specifically designed for such testing.

- c. Plug and brace pipes entering the manhole to prevent being drawn into the manhole.

- d. Place a test head with necessary gages and connections at the inside of the top of the cone section and seal in accordance with the manufacturer's instructions.

- e. Draw a vacuum of 10 inches of mercury and then shut the vacuum pump off.

- f. With valves closed, measure the time for the vacuum to drop to 9 inches. The test shall be successful if the time measured meets or exceeds the values indicated in the following table:

MINIMUM TEST TIMES IN SECONDS			
MANHOLE DEPTH	48"	60"	72"
8' or less	20	26	33
10'	25	33	41
12'	30	39	49
14'	35	46	57
16'	40	52	65
18'	45	59	73
20'	50	65	81
22'	55	72	89
24'	59	78	97
26'	64	85	105
28'	69	91	113
30'	74	98	121
32'	79	104	128
34'	83	110	136
36'	88	116	144
38'	93	122	152
40'	97	128	159

C:\Users\insommers\Desktop\11x17 sanitary specifications_revised_01-24-2017.docx

Page 6 of 7

JANUARY 2017

RECORD CONSTRUCTION 8/19/24

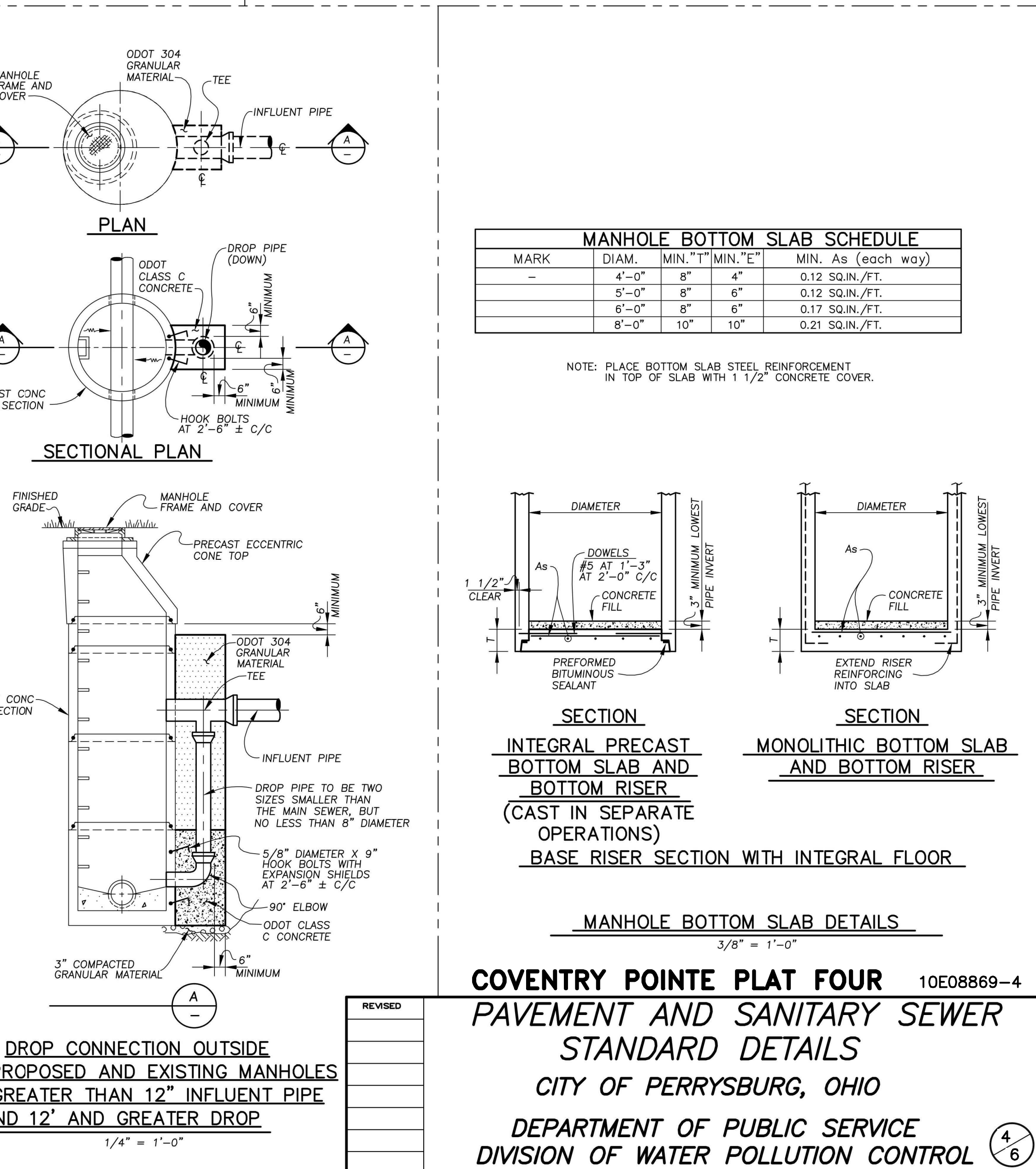
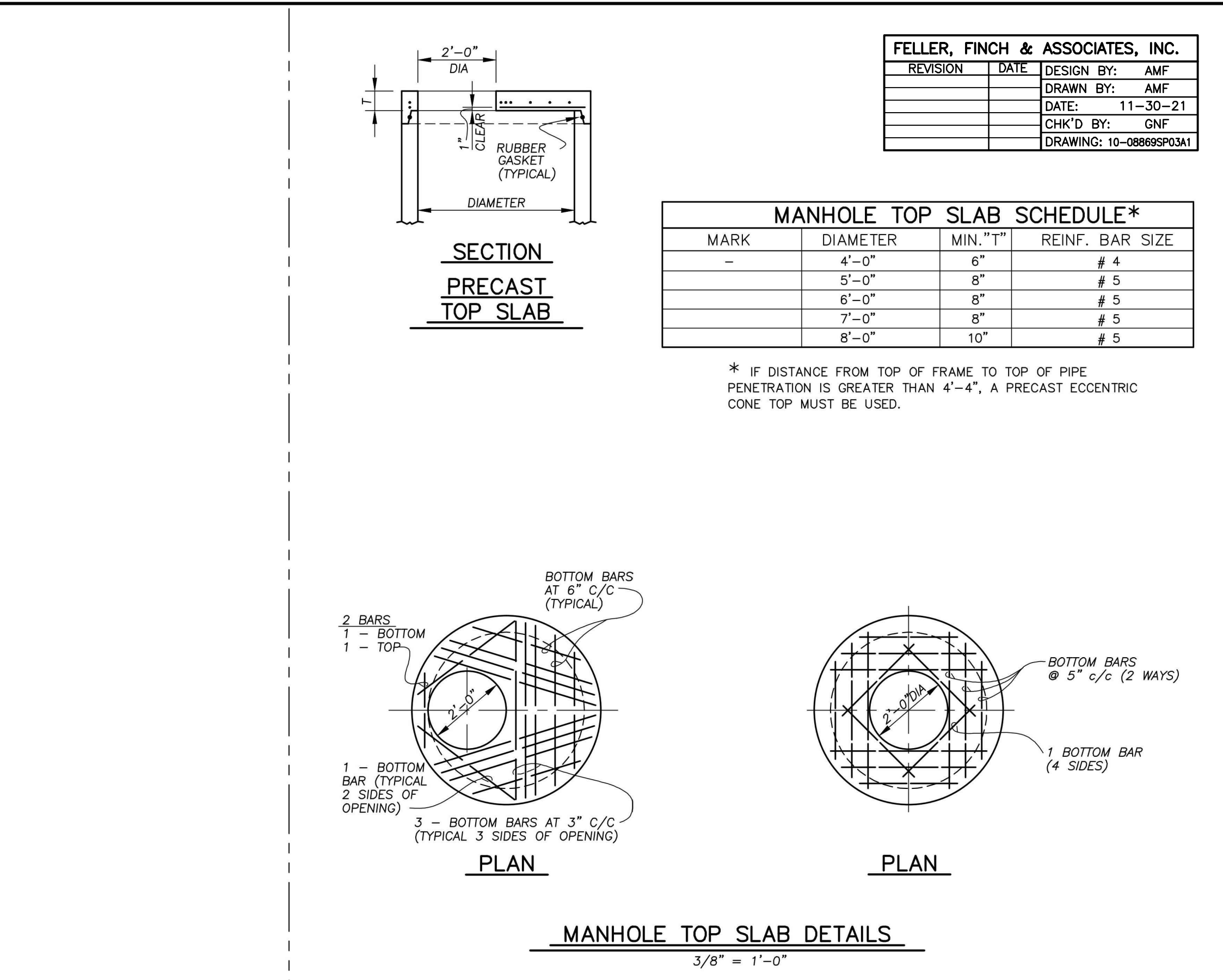
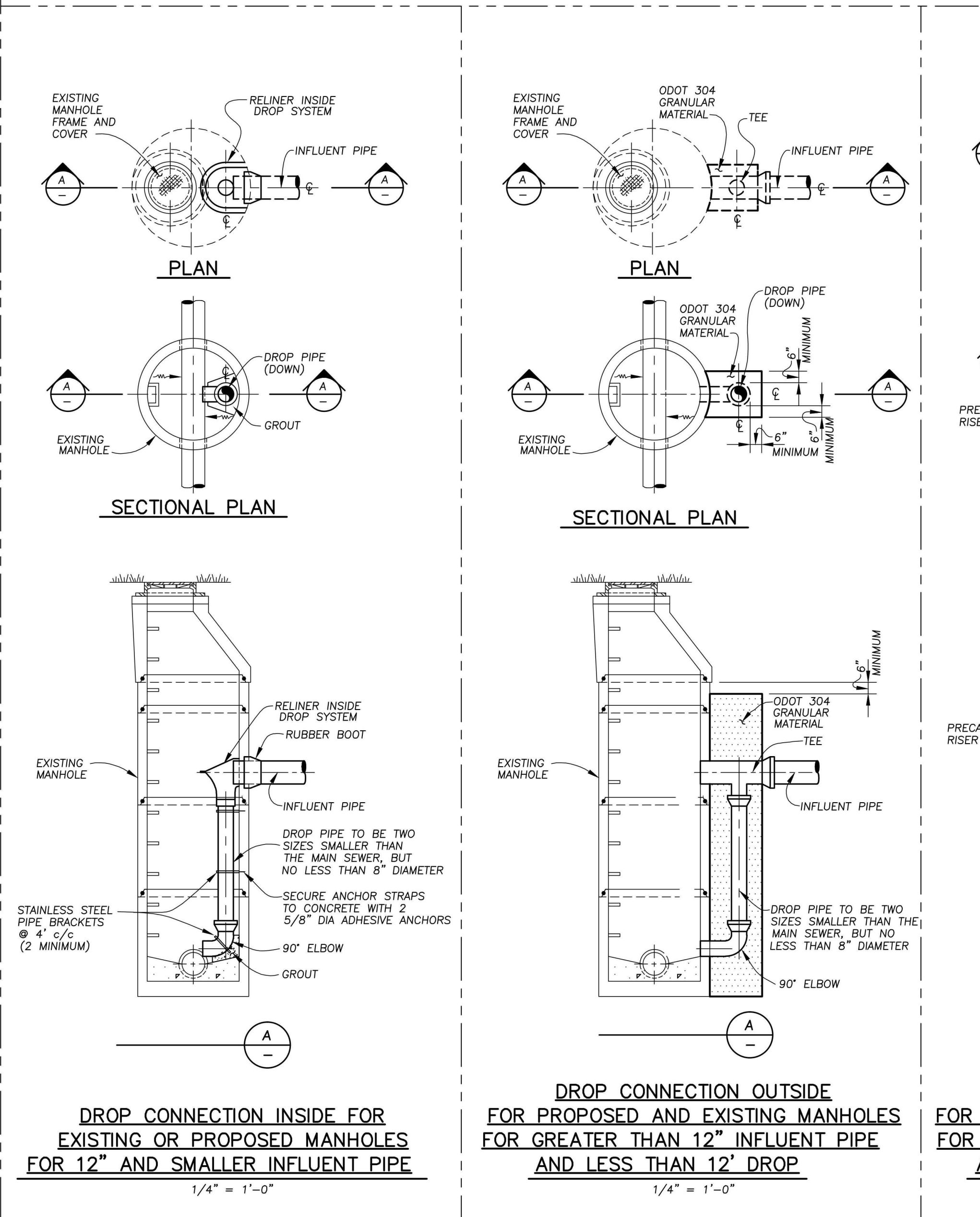
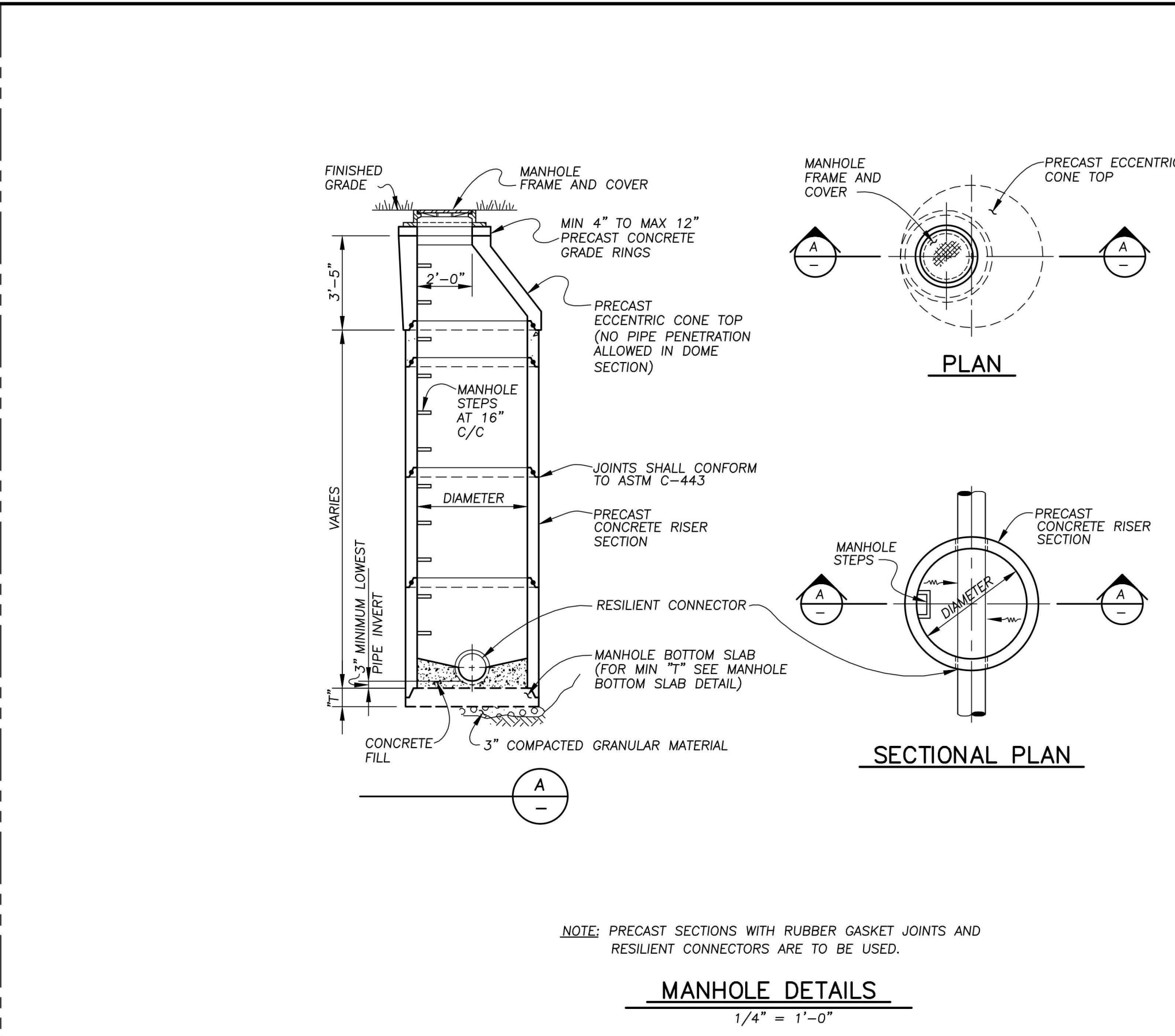
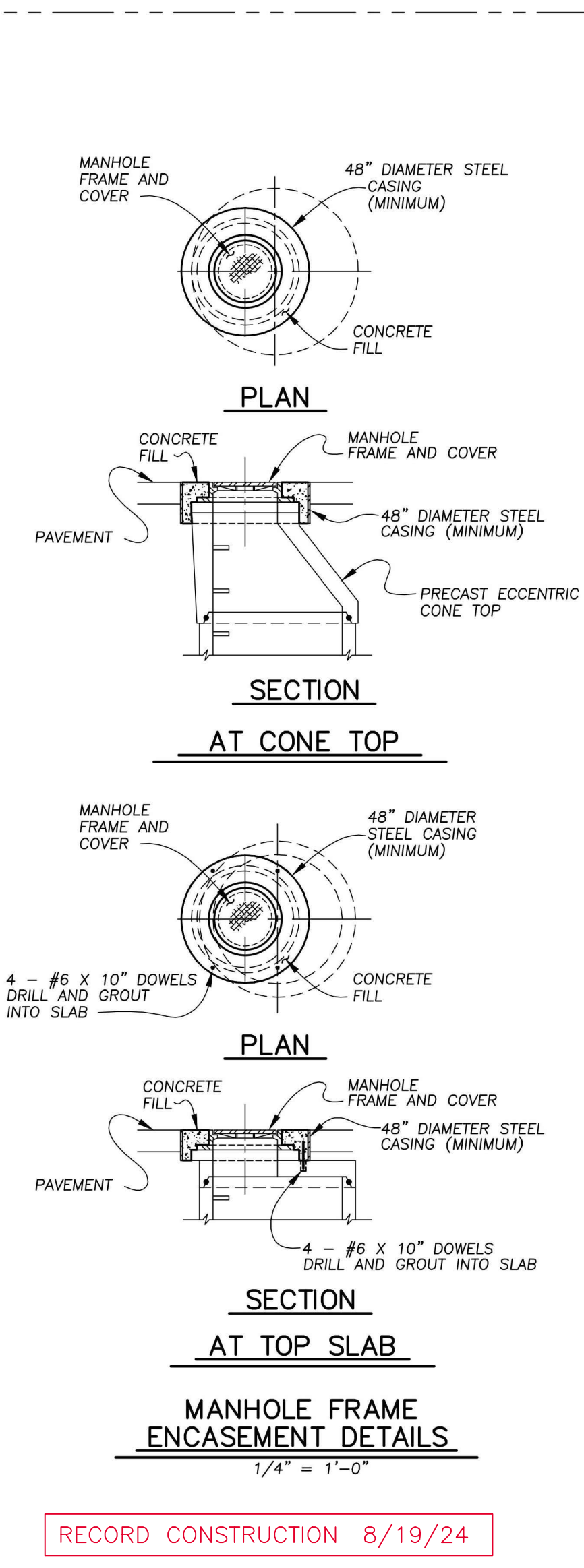
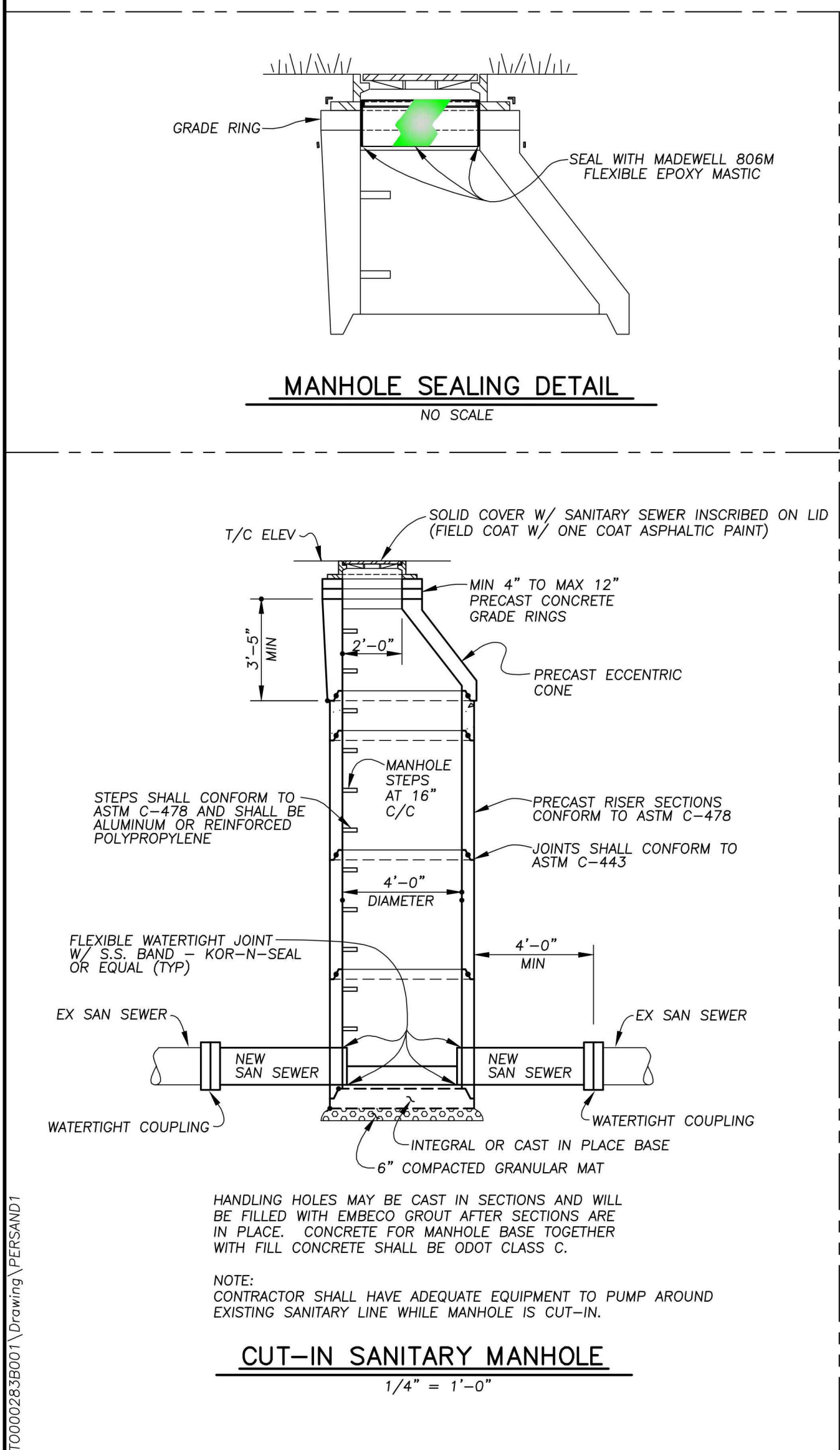
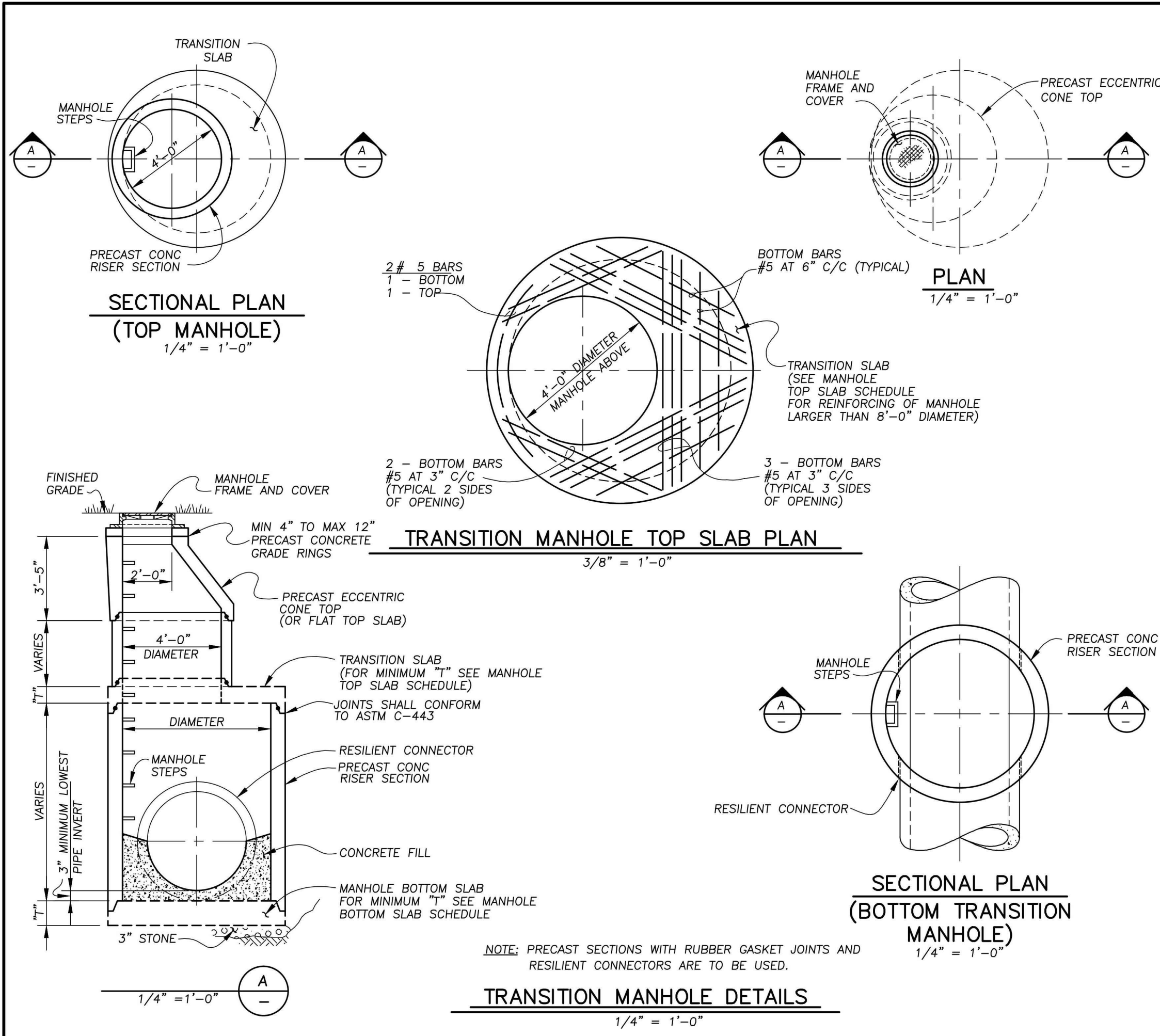
3
6

10E08869-4

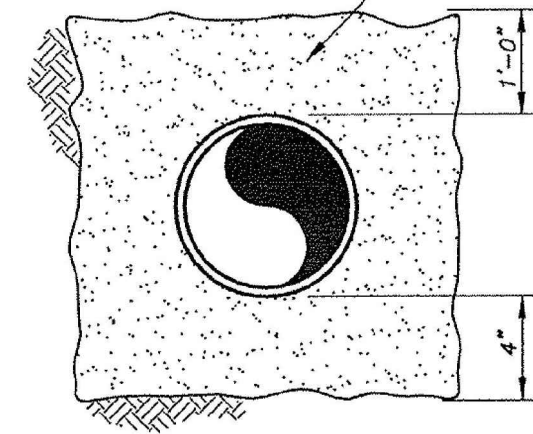
SANITARY SEWER

GENERAL NOTES

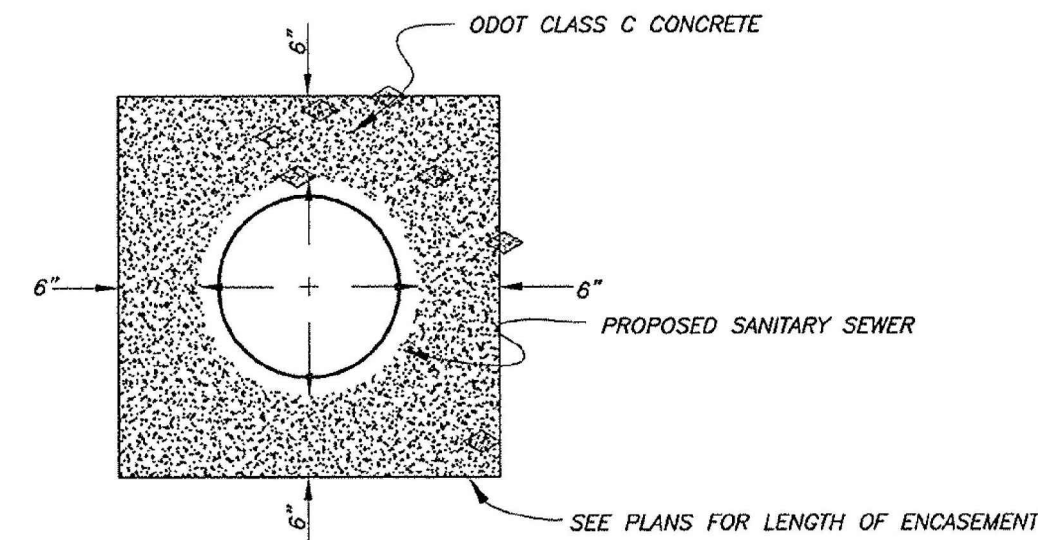
COVENTRY POINTE PLAT FOUR



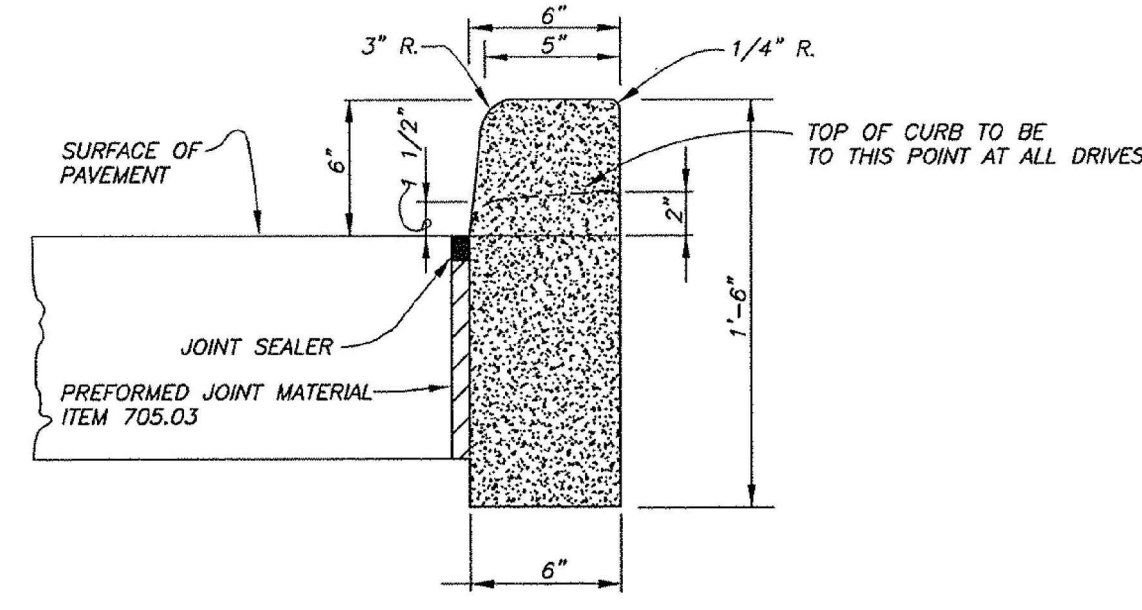
#67 LIMESTONE CONFORMING TO TABLE 703-1
OF THE STATE OF OHIO DEPT. OF
OF TRANSPORTATION SPECIFICATIONS



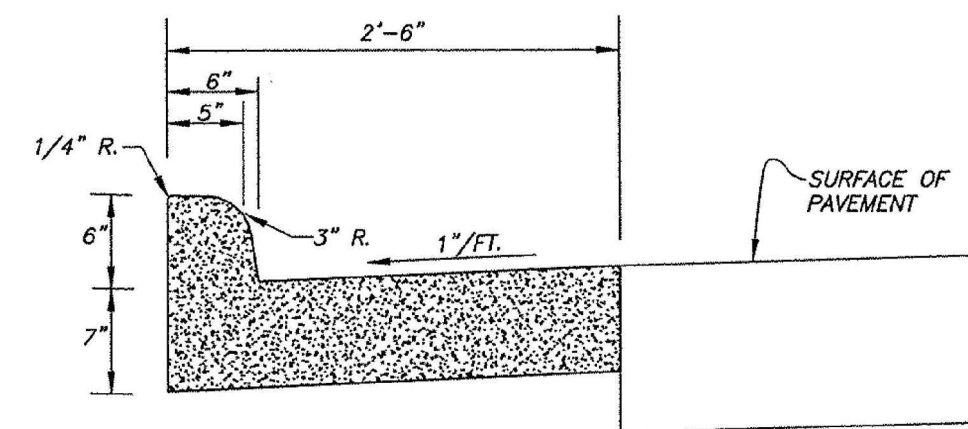
BEDDING DETAIL FOR PIPE SEWERS
NO SCALE



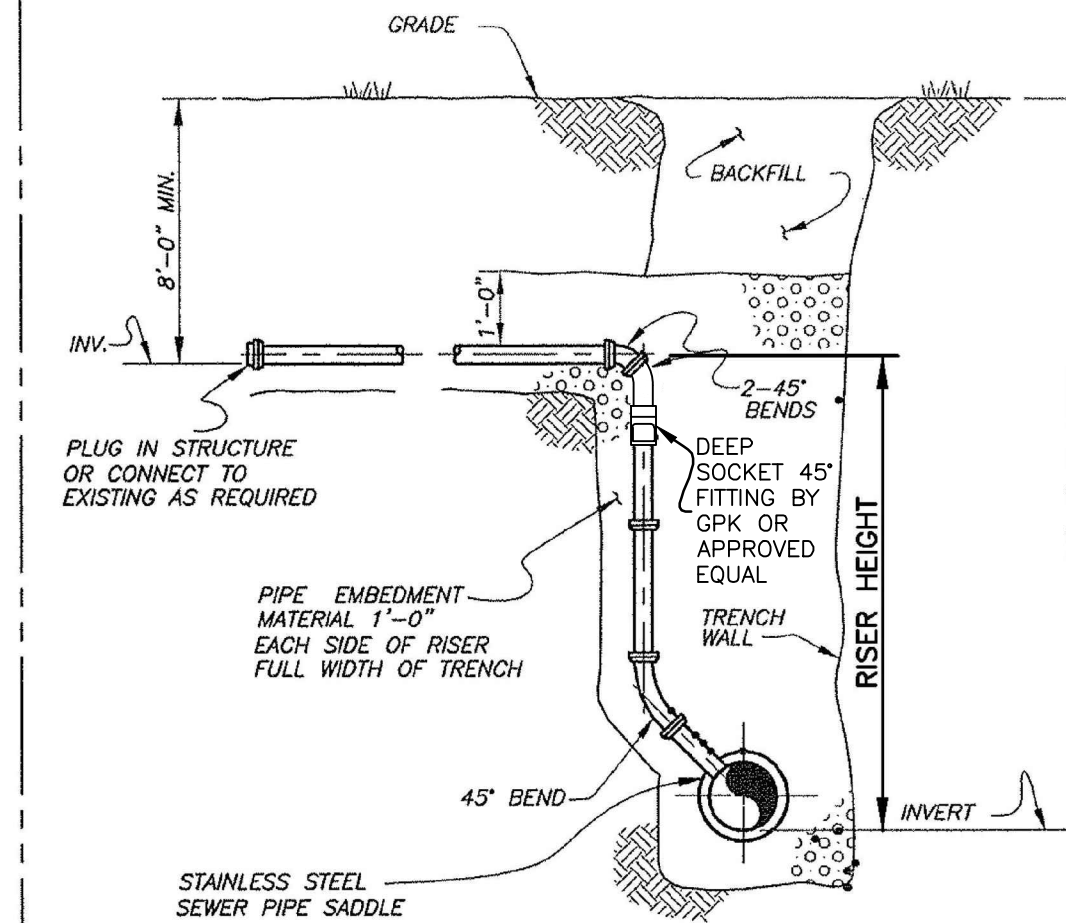
**CONCRETE ENCASEMENT
FOR SEWERS UNDER CREEKS**
NO SCALE



**ODOT TYPE 6
CURB REPLACEMENT**
NO SCALE

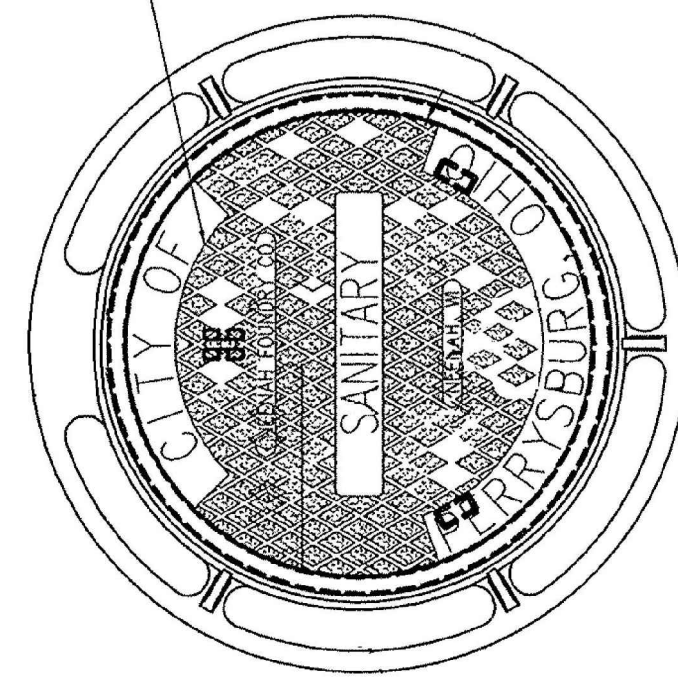


**ODOT TYPE 2
COMBINATION CURB**
NO SCALE



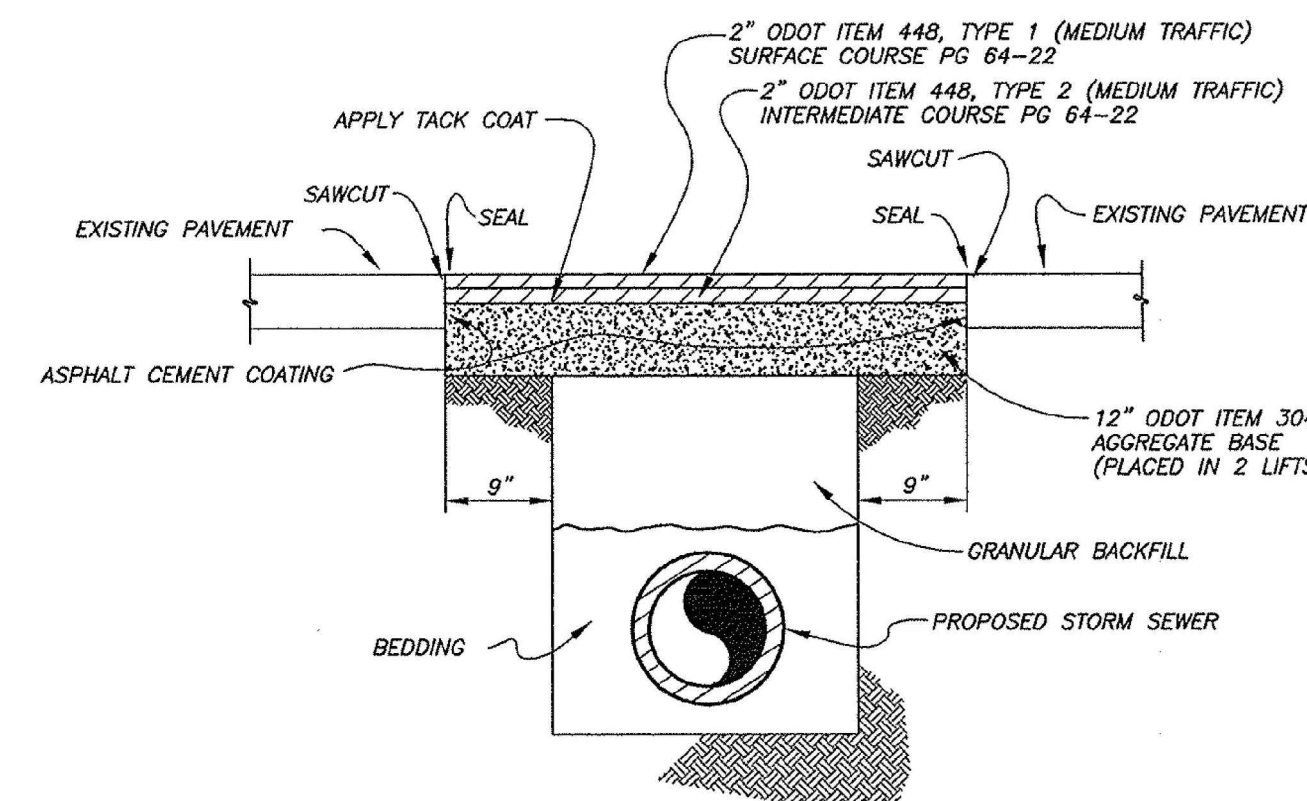
**SECTION
RISERS WHERE DEPTH
OF MAIN SEWER
EXCEEDS 12'-0"**
SANITARY SEWER SERVICE CONNECTIONS OF SANITARY SEWERS 48" AND LESS
NO SCALE

2" HIGH RAISED LETTERS
FLUSH W/ TOP SURFACE OF LID

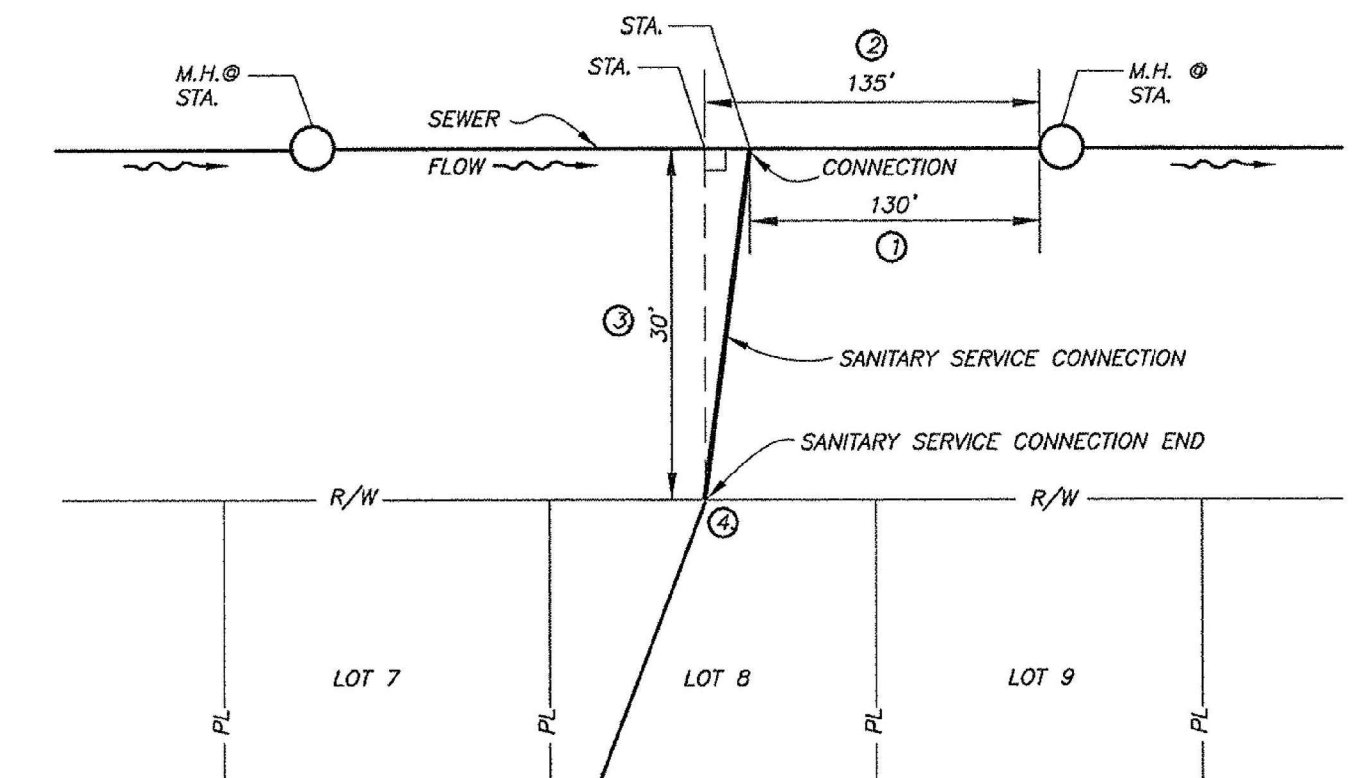


MANHOLE COVER
NO SCALE

EAST JORDAN IRON WORKS, INC., CATALOGUE 1040
WITH SOLID LID TYPE B OR AS APPROVED; MACHINED
SURFACE, FRAME WITH 24 INCH DIAMETER CLEAR
OPENING, AND 7 INCH HEIGHT, LIDS TO HAVE "CITY OF
PERRYSBURG, OH" - "SANITARY" CAST INTO TOP.

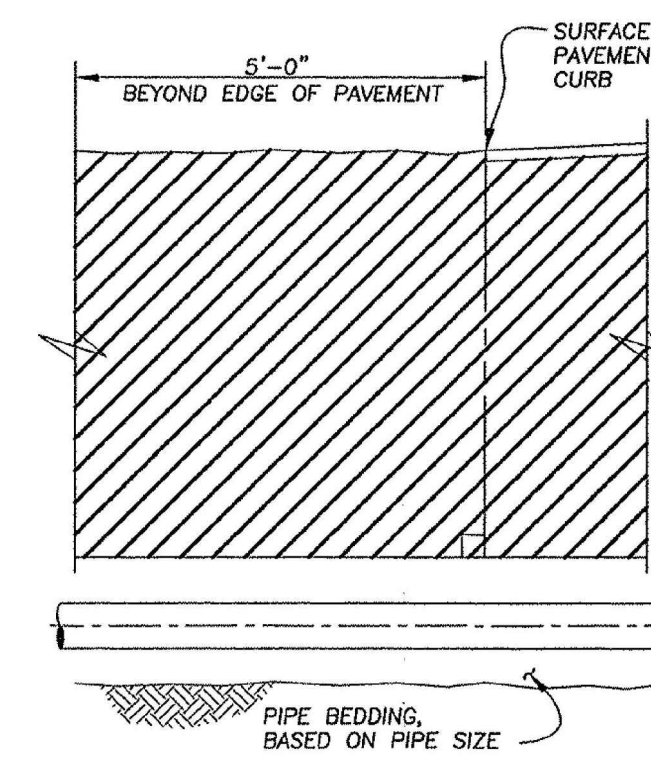


**SECTION
PERPENDICULAR STREET OPENING REPAIR DETAILS**
NO SCALE

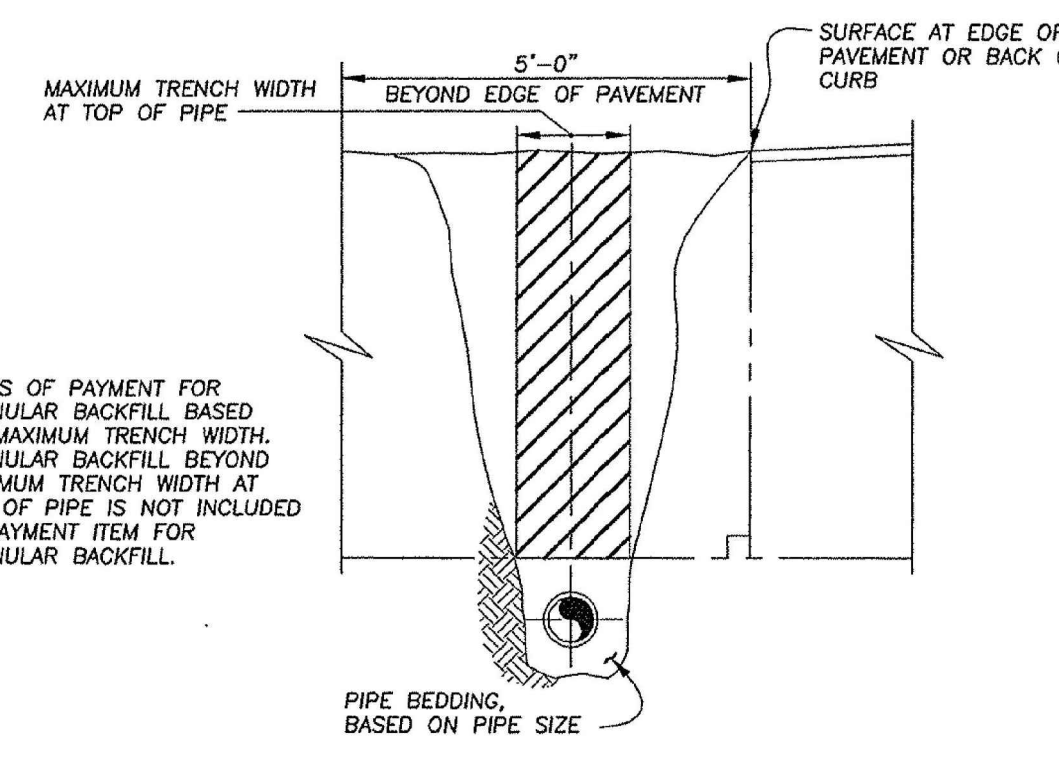


- NOTE:
1. 130'
 2. 135'
 3. 30'
 4. 641.8
- ① HORIZONTAL DISTANCE OF CONNECTION TO DOWNSTREAM M.H.
② HORIZONTAL DISTANCE OF SANITARY SEWER SERVICE CONNECTION
END TO DOWNSTREAM M.H. ALONG SEWER.
③ PERPENDICULAR DISTANCE FROM SEWER TO SANITARY SEWER
SERVICE CONNECTION END.
④ ELEVATION OF SANITARY SEWER SERVICE CONNECTION END FLOW LINE.

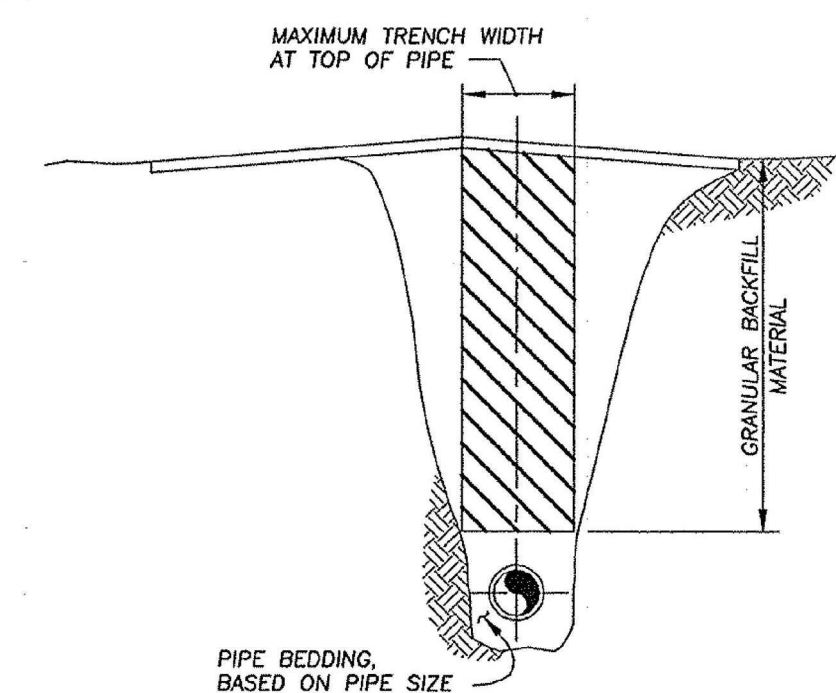
SANITARY SEWER SERVICE CONNECTION LOCATION REFERENCE
NO SCALE



CROSSING PAVEMENT WITHIN MAXIMUM TRENCH WIDTH



PARALLEL PAVEMENT WITHIN MAXIMUM TRENCH WIDTH



INSIDE PAVEMENT

LIMITS OF PAYMENT FOR
GRANULAR BACKFILL, BASED
ON MAXIMUM TRENCH WIDTH.
GRANULAR BACKFILL BEYOND
MAXIMUM TRENCH WIDTH AT
TOP OF PIPE IS NOT INCLUDED
IN PAYMENT ITEM FOR
GRANULAR BACKFILL.

NO SCALE

RECORD CONSTRUCTION 8/19/24

COVENTRY POINTE PLAT FOUR 10E08869-4

PAVEMENT AND SANITARY SEWER
STANDARD DETAILS

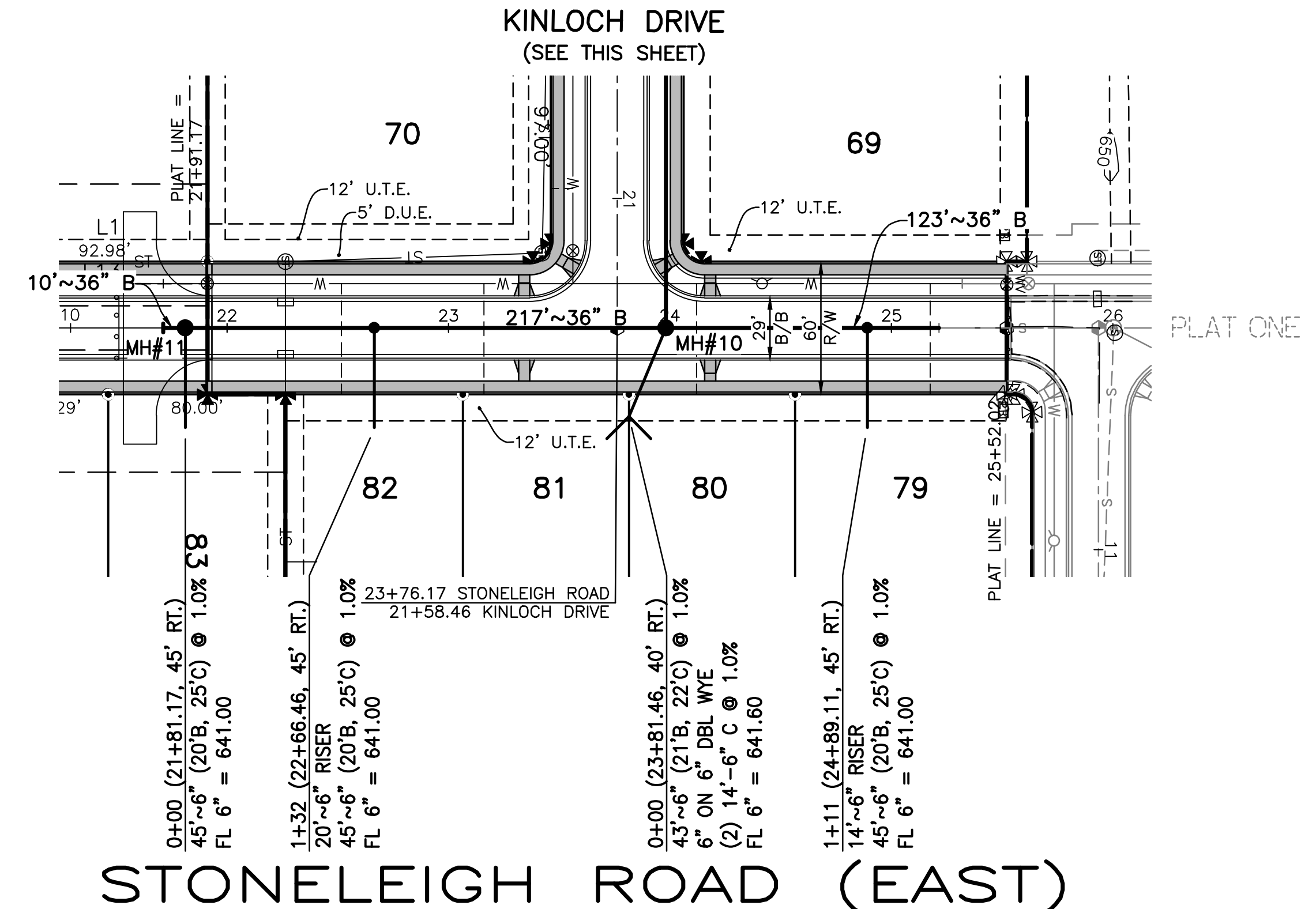
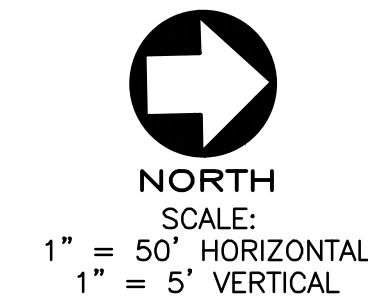
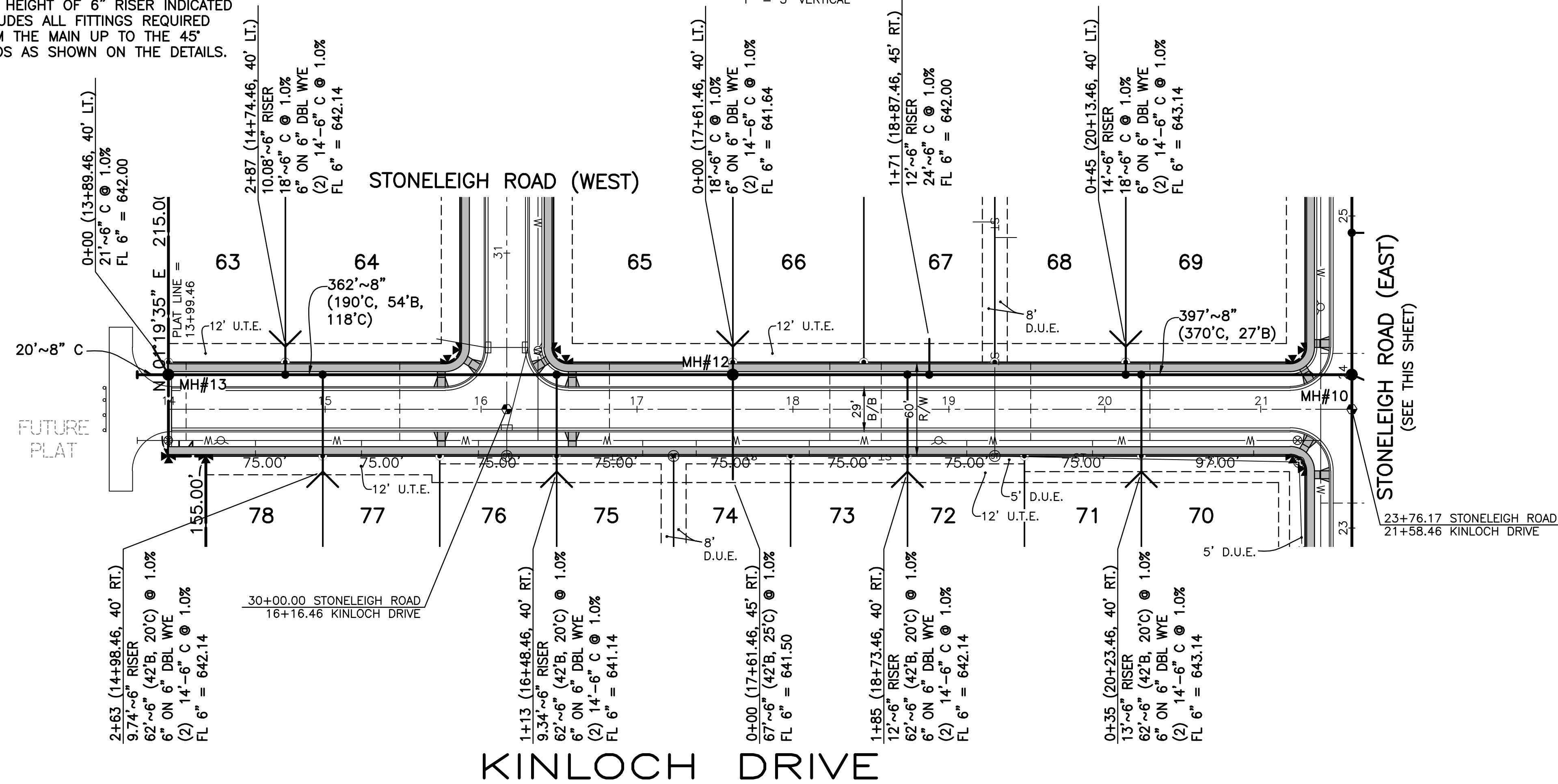
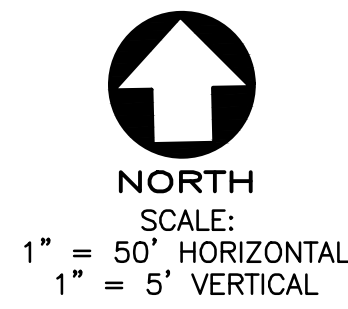
CITY OF PERRYSBURG, OHIO

DEPARTMENT OF PUBLIC SERVICE
DIVISION OF WATER POLLUTION CONTROL

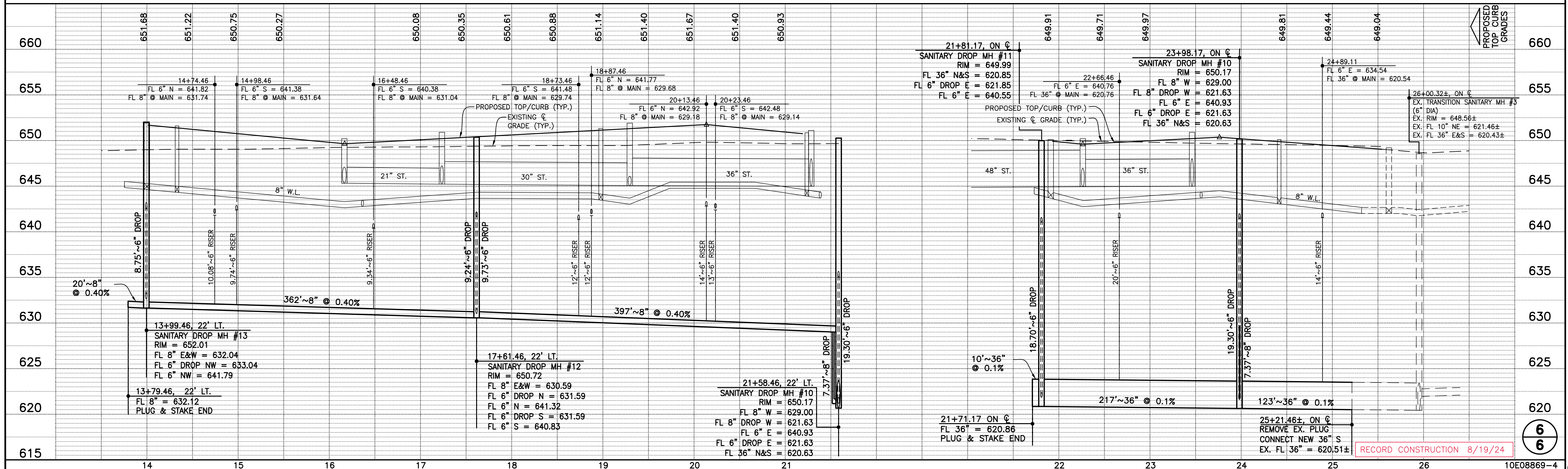
5/6

NOTES

1. ORIENT MANHOLES TO KEEP MANHOLE COVERS OUT OF THE SIDEWALK.
2. THE HEIGHT OF 6" RISER INDICATED INCLUDES ALL FITTINGS REQUIRED FROM THE MAIN UP TO THE 45° BENDS AS SHOWN ON THE DETAILS.



EASEMENT ABBREVIATIONS			
S.E.		SANITARY EASEMENT	
D.E.		DRAINAGE EASEMENT	
D.U.E.		DRAINAGE & UTILITY EASEMENT	
U.T.E.		UTILITY & TOLEDO EDISON EASEMENT	



WATERMAIN IMPROVEMENTS
FOR
Coventry Pointe Plat Four

CITY OF PERRYSBURG, WOOD COUNTY, OHIO

INDEX OF SHEETS

TITLE SHEET	1
GENERAL NOTES & DETAILS	2-4
PLAN AND PROFILE	5-6

BENCH MARK DATA

WOOD COUNTY BENCH MARK
MC0668 USGS SURVEY DISC IN CONCRETE MONUMENT
SOUTHWEST CORNER OF THE INTERSECTION OF HULL
PRAIRIE ROAD & FIVE POINT ROAD.

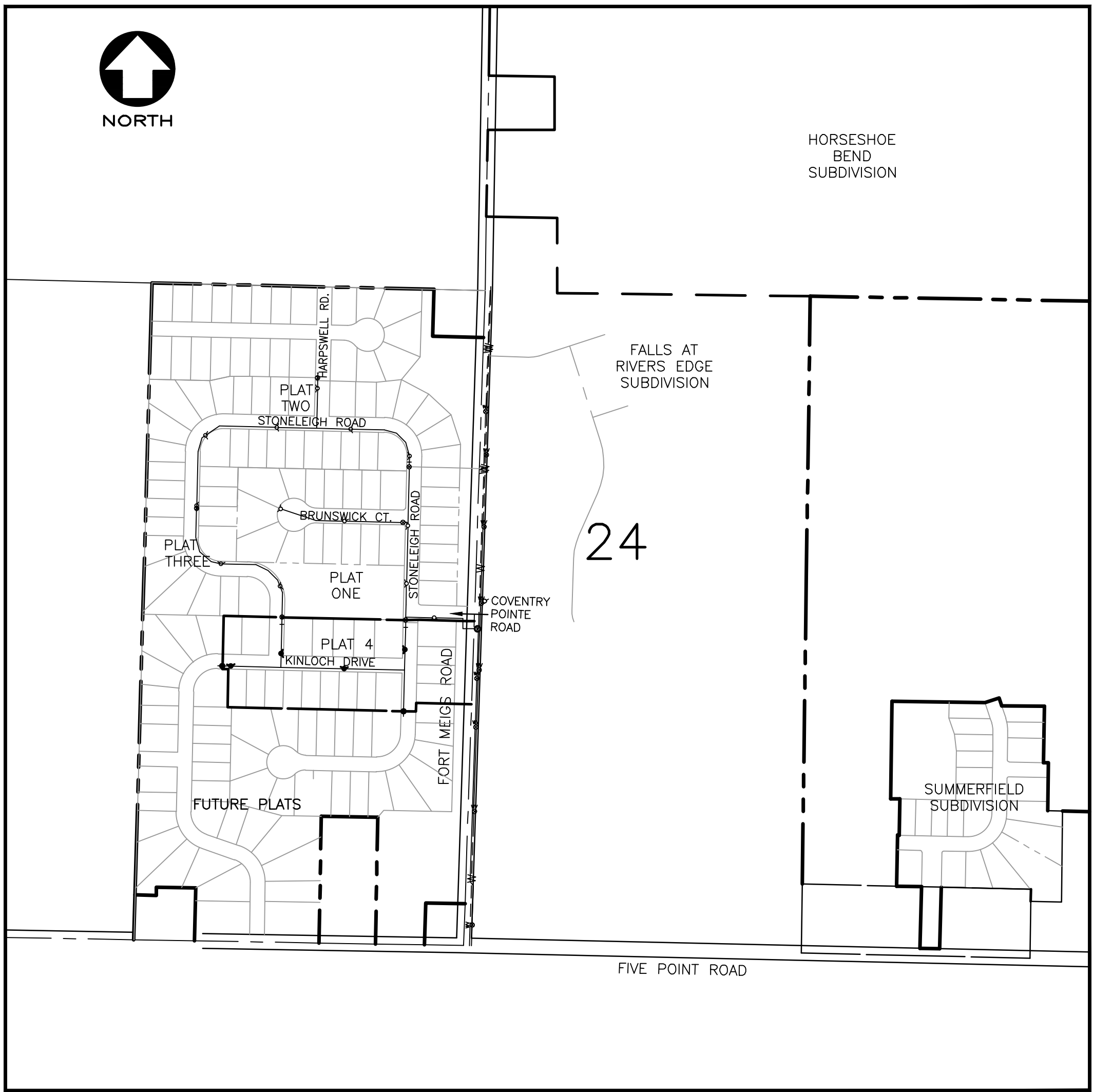
ELEVATION 650.10'

SITE BENCH #201
MAG NAIL SET IN WEST FACE OF 2ND POWER POLE
SOUTH OF ROACHTON ROAD ON FORT MEIGS ROAD.

ELEVATION 651.45

SITE BM #202
MAG NAIL SET IN WEST FACE OF 1ST POWER POLE
NORTH OF FIVE POINT ROAD ON FORT MEIGS ROAD.

ELEVATION 653.08



KEY MAP
SCALE: 1"=400'

WATERLINE SUMMARY

QTY.	UNIT	DESCRIPTION
1317	FT.	8" WATERMAIN
4	EACH	HYDRANT ASSEMBLY (PARALLEL TO MAIN)
3	EACH	8" LINE VALVE IN VALVE BOX
2	EACH	8" PLUG TAPPED FOR 2" BLOWOFF
2	EACH	8" X 8" x 8" TEE
2	EACH	3/4" CHLORINATION TAP
20	EACH	WATER TAPS (EXCAVATION ONLY)

APPROVALS:

CITY OF PERRYSBURG
DIRECTOR OF PUBLIC UTILITIES
MATTHEW P. CHOMA, P.E.

DATE

DEVELOPED BY:

COVENTRY GLEN LTD.
3150 REPUBLIC BLVD.
SUITE 3
TOLEDO, OHIO 43615
PHONE: (419) 841-4831

RECORD CONSTRUCTION 8/19/24

CONVENTIONAL SIGNS

	PROPOSED	EXISTING
SANITARY SEWER	—S—	—S—
STORM SEWER	—ST—	—ST—
WATERMAIN	—W—	—W—
SANITARY MANHOLE	●	⊙
STORM MANHOLE	●	⊙
CATCH BASIN	■	⊞
YARD BASIN	●	⊙
WATER VALVE IN MANHOLE	●	⊙
HYDRANT	●	⊙
CENTERLINE	—	—
ODOT RM-1.1 MONUMENT	⊕	⊕
WOOD COUNTY TYPE A MONUMENT ASSEMBLY	⊕	⊕



OHIO UTILITIES
PROTECTION SERVICE
CALL 1-800-362-2764
TWO WORKING DAYS
BEFORE YOU DIG
NON-MEMBERS MUST BE
CALLED DIRECTLY

1683 Woodlands Drive, Maumee, Ohio 43537
Phone: (419) 893-3880
Fax: (419) 893-2982
www.fellerfinch.com

FellerFinch
& ASSOCIATES, INC.
Engineers • Surveyors

WATERMAIN

COVENTRY POINTE PLAT FOUR

TITLE:

PROJECT:



SIGNED

DATE

DATE:
02-15-23

PROJECT:
10E08869

1
6

WATERMAIN

COVENTRY POINTE PLAT FOUR

PAVEMENT AND WATER MAIN SPECIFICATIONS

PART 1 GENERAL

1.1 SUMMARY

- A. Water mains and appurtenances.
1. Water Mains shall be of PVC/PVCO pipe with ductile iron fittings.
 2. Fire Lines (Water Mains) shall be of ductile iron pipe and fittings
- B. Pavement for local roads.
- C. Disinfection of water mains.

1.2 STANDARDS

- A. All materials and conditions shall be in accordance with Standard and Specifications of the City of Perrysburg (the City), and/or the current American Society of Testing Materials (ASTM), and/or the current American Water Works Association (AWWA) standards and specifications, and/or the current Ohio Department of Transportation (ODOT) Construction Materials and Specifications (CMS), and/or the current Ohio Environmental Protection Agency (OEPA) standards and specifications. In case of conflict, the City Standard and Specifications shall take precedence.
- B. All references to Standards and Specifications are to the latest edition, unless otherwise noted.
- C. The City's Water Main Standard Details apply to these specifications

1.3 PRE-CONSTRUCTION MEETINGS, INSPECTION, AND PERMITS

- A. All construction projects involving: connection to, relocation of, future City ownership, or work within public rights-of-way, shall require a pre-construction meeting with the Design Engineer, Contractor, on-site inspection firm, and all involved City Divisions.
- B. As requested by the City, full time on-site inspection may be required and at the expense of the Developer.
- C. Water connection permits shall be obtained from the Department of Public Utilities Office, 211 East Boundary Street, 419-872-8050, a minimum of ten (10) calendar days prior to the start of construction.
- D. Department of Public Utilities (419-872-8050) shall be contacted a minimum of seven (7) calendar days requesting on-site inspection when connecting to City utilities.

C:\Users\nsommers\Desktop\11x17 water main specifications_01-24-17.docx

Page 1 of 7

JANUARY 2017

PAVEMENT AND WATER MAIN SPECIFICATIONS

- D. Regrade and reshape all road shoulders and all ditches and swales from existing high points to existing drainage structures or other outlets along the proposed improvement. Ditches, which are reshaped, shall have reasonable side slopes. Vertical or steep slopes will not be permitted.
- E. Seed all disturbed earth areas using the hydroseed method or placement of sod, both seed mixture and sod type shall be as approved by the City.

PART 2 PRODUCTS

2.1 PIPE AND FITTINGS

- A. PVC/PVCO Pipe with Ductile Iron Fittings:
1. Pipe: AWWA C900, DR 18, Pressure Class 235 for 4 inch through 12 inch diameter; AWWA C905, DR25, pressure class 165 for 14 inch diameter and larger; and AWWA C909, Pressure Class 150 for 4 inch through 24 inch diameter; cast iron equivalent O.D.; integral wall-thickened bell end type incorporating elastomeric gasket; furnished in nominal 20 foot laying lengths.
 2. Fittings: AWWA C110 or C153, AWWA C111 rubber gasket joints, with all fittings to be polyethylene encased when buried.
 - a. Exterior Coating: Asphaltic material, or AWWA C116 fusion-bonded epoxy coating
 - b. Interior Lining: AWWA C104 cement mortar with seal coat, or AWWA C116 fusion-bonded epoxy coating.
 3. Joints: Push-on, with joints within the lengths noted on the Standard Details to be restrained type joints.
 - a. Restrained joints shall be MEGALUG or retainers with Mega-Bond Coating System, as manufactured by EBAA Iron, Inc., or as approved, of ductile iron and with a working pressure at least equal to that of the PVC pipe on which to be installed, and a minimum safety factor of 2:1.
- B. Ductile Iron Pipe and Fittings:
1. Pipe: Designed in accordance with AWWA C150, minimum Thickness Class 52, with polyethylene encasement when buried; manufactured in accordance with AWWA C151; furnish in minimum nominal 18 foot laying lengths.
 2. Fittings: AWWA C110 or C153, with C153 fittings to be polyethylene encased when buried.
 3. Exterior Coating: Asphaltic material. Fittings may be coated with a fusion-bonded epoxy coating in accordance with AWWA C116.
 4. Interior Lining: AWWA C104 cement mortar with seal coat, or AWWA C116 fusion-bonded epoxy coating.
 5. Joints: AWWA C111, rubber gasket, push-on or mechanical type, with restrained type joints and river crossing pipe joints to be provided within the lengths noted on Drawings.

C:\Users\nsommers\Desktop\11x17 water main specifications_01-24-17.docx

Page 2 of 7

JANUARY 2017

- E. Before any water is obtained from hydrants for construction purposes, Contractor shall secure a hydrant meter setup by placing a security deposit with the Department of Public Utilities Office, at 211 East Boundary Street, 419-872-8050.
- F. Any work within the City's public rights-of-way requires a Street Opening Permit which is obtained from the Department of Public Utilities Office, at 211 East Boundary Street, 419-872-8055.
- 1.4 DEFINITIONS
- A. Bedding: Material placed to a depth of 4 inches under, beside, and directly over the pipe up to a distance of 6 inches above the top of the pipe barrel, for the full width of the trench, prior to subsequent backfill operations.
- 1.5 REGULATORY REQUIREMENTS
- A. Construction operations shall comply with the City's Noise and Vibration Control Ordinance, Section 634.11, as follows:
1. No person shall use any pile driver, shovel, hammer derrick, hoist tractor, roller or other mechanical apparatus operated by fuel or electric power in building or construction operations between 10:00 p.m. and 6:00 a.m. of the next day in a residential area or within 500 feet of a school or church, except for temporary conditions approved by the Director of Public Service.
 2. No person shall perform any construction or repair work on any structure or building, or perform any excavation or road work, when such work entails the use of any power operated construction type device in such a manner that the noise created thereby substantially exceeds the noise customarily and necessarily attendant to the reasonable and efficient performance of such equipment.
 3. Whoever violates any of the provisions of this section is guilty of a minor misdemeanor for a first offense and a misdemeanor for the fourth degree for any subsequent offense. Punishment shall be as provided in Ordinance Section 698.02.
- B. In accordance with Ordinance 1040.07 Rule 24 of the City Streets, Utilities, and Public Services Code, "the water main contractor shall be required for two years after completion of the work, to make all necessary repairs, including filling and seeding if settlement occurs." For this Project, the water main contractor is the Contractor responsible for the performance of the work.
- C. Disinfection: Comply with current version of AWWA C651, except as modified herein.
- 1.6 PROJECT CONDITIONS
- A. Disinfection is a responsibility of Contractor who shall provide all materials, labor, and equipment; dispose of heavily

- chlorinated water; and pay costs of bacteriological tests. A representative of the City will collect samples for and perform bacteriological tests. Samples shall not be taken by Contractor.
1. The City will provide, without charge, water for the initial disinfection and filling. If repeat disinfection and filling is required, Contractor to pay for all water used after initial disinfection and filling.
 2. Water will be available at the current City rate.
- 1.7 QUALITY ASSURANCE
- A. The manufacturer(s) shall provide an affidavit that all pipe, valves, hydrants, fittings, and appurtenances have been manufactured and tested in accordance with the requirements of the applicable referenced Standards. A copy of the affidavit, including the project on which the material is to be used, shall be forwarded to the City prior to construction.
- B. All pipes, fittings, valves, fire hydrants and appurtenances shall be appropriately marked for identification purposes. The materials and methods of manufacture, and completed pipes, fittings, valves, and appurtenances shall be subject to inspection and rejection at all times. The City has the right to make inspections.
- 1.8 STORAGE AND PROTECTION
- A. At no time shall other pipes or material be placed in the pipes to be installed.
- B. Repair damage to pipe exterior and interior surfaces; pipe so damaged subject to rejection.
- 1.9 RESTORATION
- A. All existing features that are disturbed due to construction activities, such as mailboxes, shrubs, bushes, guardrails, pavement markings, swales, sewers, catch basins, curbs, seeded areas, etc. shall be replaced to their original condition, unless otherwise specified, in accordance with current ODOT specifications and to the satisfaction of the City. Existing survey monuments, bench marks, property corner points, and control points damaged or disturbed by construction shall be replaced by a registered land surveyor, licensed in the State of Ohio.
- B. Restoration of street openings shall be in accordance with the City's Standard Street Opening Repair Details.
- C. In existing streets, provide a temporary pavement upon completion of backfilling operations and maintain same until the permanent pavement can be placed. Temporary pavement shall be a minimum 2-inch thick asphalt concrete mix in accordance with ODOT Item 614.13.

3. Anchoring pipe, plain end mechanical joint type incorporating an integral cast shoulder and follower gland.
 4. Anchoring Pipe Manufacturers: American Cast Iron Pipe Company, Clow Corporation, United States Pipe and Foundry Company, or as approved.
- 2.6 BACKFILL
- A. Earth Backfill: Excavated earth material, finely divided and free of stones 3 inches or greater in any dimension to at least 3 feet above pipe top.
- B. Granular Material: ODOT Item 304 crushed limestone.
- C. Control Density Fill (CDF): A mix of Portland cement, fly ash and selected granular materials with a compressive strength of 100 psi; Kuhlman Corporation "K-Krete", or as approved.
- 2.7 BACTERIA SAMPLING AND FLUSHING ASSEMBLIES
- A. Follow Service Connection Assemblies as shown above, with the following modifications:
1. Curb box is not required.
 2. A ball valve may be substituted for the curb stop.
 - a. Manufacturers: Stockholm, Model S-216; Nibco, Model No. S-585-70 or T-585-70; or as approved.
 - b. Bronze, two-piece body, chrome-plated, brass ball, Teflon seats and stuffing box ring, lever handle and balancing stops, solder or threaded ends with union.
 3. Approved piping and fittings (90 degree elbow) shall be provided a distance of 4 feet above grade.
 4. Valve shall be located to allow individual taking sample to turn valve on-off while holding sampling jar.
- 2.8 POLYETHYLENE ENCASEMENT
- A. AWWA C105, 8 mil linear low-density polyethylene tube or 4 mil high density, cross-linked polyethylene tube; 2 inch wide plastic-backed, adhesive tape, bond to both metal surfaces and polyethylene film.
- 2.9 TRACE TAPE
- A. Inert bonded layer plastic with metallized foil core, 6 inches wide, resistant to alkalis, acids and other destructive chemical components encountered in soils; APWA Uniform Color Code, brightly colored; imprinted indicating pipe type; Griffolyn Company Terra Tape "D", Seton Name Plate Corporation, or as approved.
- 2.10 JOINT BOLTS AND NUTS
- A. All ductile iron fittings, and appurtenances (valves, hydrants, restrained joints, etc.) shall be installed with COR-BLUE (COR-

C:\Users\nsommers\Desktop\11x17 water main specifications_01-24-17.docx

PAVEMENT AND WATER MAIN SPECIFICATIONS

- TEN) bolts, nuts, and washers. B. Bolts and appurtenances shall be NSS Industries COR-BLUE (COR-TEN) Bolts, or as approved, coated with a ceramic-filled baked-on fluorocarbon resin.
- 2.11 BEDDING MATERIAL
- A. Fine excavated material except in paved areas; standard size No. 6 stone fill as shown at fire hydrants and at blow-off assemblies, except no slag permitted.
- B. ODOT No. 67 or No. 57 crushed limestone in paved areas.
- C. Concrete Thrust Blocks, Concrete Encasement, and Valve Box Concrete Collar: ODOT Class C Concrete.
- 2.12 LOCAL ROADS
- A. Asphalt Concrete Pavement:
1. -1/2 inches ODOT Item 448, Type 1 (medium traffic) Surface Course, PG 64-22.
 2. 2 inches ODOT Item 448, Type 2 (medium traffic) Intermediate Course, PG 64-22.
 3. 10 inches ODOT Item 304, Aggregate Base (placed in 2 lifts).
 4. On aggregate base, apply ODOT Item 408 Prime Coat at rate of 0.35 gallons per square yard. Installation to be directed by the City.
 5. ODOT Item 407, apply tack coat at the rate of 0.04 gallons per square yard to be placed between intermediate and surface courses and joints.
 6. Sealer for Contact and Mating Surfaces and Joints: Comply with ODOT Items 401.14 and 401.17.
 7. Pavement Sealer: When requested by and as approved by the City.
- B. Concrete Driveways and Parking Areas:
1. Pavement: ODOT Item 452 Non-Reinforced Portland Cement Concrete Pavement.
 2. Reinforcement: Match existing.
 - a. Commercial Drives: minimum 9 inch thick or match existing
 - b. Residential Drives: minimum 6 inch thick or match existing
 3. Hook Bolts or Deformed Bars in Roadways:
 - a. Provide 5/8-inch hook or deformed bolts where new abuts existing.
 - b. Furnish and install at 30 inches center to center where new abuts existing longitudinally.
 - c. When thickness is less than 10 inches, as determined by the City, furnish and install at 20 inches center to center where new abuts existing transversely.
 - d. When thickness is greater than 10 inches, as determined by the City, furnish and install at 26 inches center to center where new abuts existing transversely.

Page 3 of 7

JANUARY 2017

PAVEMENT AND WATER MAIN SPECIFICATIONS

- E. Water Main Minimum Height of Cover: 5 feet.
- 3.2 BEDDING
- A. Place bedding material at trench bottom and shape for accurate placement and proper support of pipe.
- B. Place bedding material (ODOT No. 67 or No. 57 crushed limestone) under, beside, and to 12 inches over the pipe sewer for the full width of the trench; place in 6 to 12-inch layers, loose measure, and work the crushed stone around the pipe to provide even support, to fill all voids, and to lightly compact the crushed stone (by hand).
- C. Carefully place and tamp so as not to puncture polyethylene encasement, or damage or displace joints or pipe. Do not drop material directly on pipe.
- D. Construct thrust blocks at plugs as detailed. Place against firm, undisturbed soil. Protect end of plug from concrete adhesion to allow for future removal.
- E. Construct concrete encasement under ditches as shown.
- 3.3 INSTALLATION - WATER MAIN PIPE AND FITTINGS
- A. Provide non-conducting dielectric connections wherever jointing dissimilar metals.
- B. Install water mains at a minimum 10 foot horizontal distance from sewers and manholes and at a minimum 18-inch vertical distance from sewers at their crossing, both as measured between the outside of pipe walls. At crossings, install one full length of water line pipe so both joints will be as far from the sewer as possible.
- C. Install pipe in locations and at grades shown or specified, except as otherwise permitted or ordered by the City to avoid existing or proposed utility lines or other obstructions encountered; to secure a more readily accessible position for trenching; or to facilitate the location of various pipe appurtenances; avoid high and low points in the main
- D. Use suitable fittings, usually 1/8 bends, when abrupt grade changes of the pipe are necessary to avoid existing utilities or other obstructions, so as to secure an easy flow of liquid and to provide sufficient cover below same unless noted otherwise.
- E. Install pipe to allow for expansion and contraction without stressing pipe or joints.
- F. Deflect pipe joints in strict accordance with pipe manufacturer's instructions.
- G. Locate pipe to maintain a minimum clearance of 18 inches in all directions, with respect to other utilities, to allow for taps to be inserted.
- H. With push-on joints, wipe surfaces that contact rubber gasket clean and dry just prior to making joint. Use a lubricant in accordance with the manufacturer's instructions when making joint.
- I. With mechanical joints, brush surfaces that contact rubber gasket with soapy water to remove all sand and grit just prior to making joint.
- J. Install tracer tape continuous over top of PVC pipe; locate 18 inches below finished grade.
- K. Install polyethylene encasement for all ductile iron pipe, fittings, and appurtenances; comply with AWWA C105 Method A and manufacturer's instructions. Completely tape all overlaps and seams. Repair all rips, punctures, and other damage to the polyethylene.
- L. Provide polyethylene encasement for each ductile iron fitting for a distance of 5 feet each side thereof; comply with AWWA C105 Method A and manufacturer's instructions. Completely tape all overlaps and seams. Repair all rips, punctures and other damage to the polyethylene.
- M. Clean all pipes thoroughly inside and outside before lowering into trench; keep pipes clean during and after laying; and seal the pipe end with a water-tight plug when pipe laying is stopped for any reason.
- N. From the top of the bedding to a point 5 feet below the adjacent ground level, backfill trenches in and within 5 feet of the edge of existing and proposed paved or stoned streets, alleys, and parking areas with granular material (ODOT No. 304 crushed limestone). Place the crushed limestone material in maximum 36-inch layers, loose measurement. Mechanically leave the crushed stone and compact each layer with an excavator-mounted vibratory plate compactor that produces a rated compactive force of at least 9 psi. Each layer to receive a minimum of two complete passes, except where CDF is indicated on the Drawings.
- O. The top 5 feet of the trench shall be backfilled with granular material (ODOT No. 304 crushed limestone). Place the crushed limestone material in maximum 12-inch loose layers and mechanically compact to not less than 100 percent of the maximum dry unit weight as determined in accordance with ASTM D698 (Standard Proctor), except where CDF is indicated on the Drawings.
- P. For trenches within 5 feet from the edge of existing and proposed paved or stoned streets, alleys, and parking areas, backfill with compacted granular material as specified above for trenches coming within same.
- Q. For backfilling trenches in yard/grassed areas, replace as much of the excavated material as possible. Until backfilling has progressed to a depth of at least 3 feet over the top of the pipe barrel, use finely divided material, free of stones 3 inches or greater in any dimension, boulders and other harmful debris, and place in 18-inch layers, loose measurement, and compact by mechanical tamping. Place remainder of backfill in maximum 12-inch layers, loose measurement, and compact by mechanical tamping.
- R. For backfilling trenches within 5 feet of existing and proposed sidewalks and driveways, replace as much of the excavated material as possible. Until backfilling has progressed to a depth of at least 3 feet over the top of the pipe barrel, use finely divided material, free of stones 3 inches or greater in any dimension, boulders and other harmful debris, and place in 12-inch layers, loose measurement, and compact by mechanical tamping. In no case shall the compaction be less than 92% as determined by the Standard Proctor Test.
- S. Contractor is responsible for disinfection of the water main in accordance with AWWA C651 under Section 02675. Attention is directed to Section 4 - Preventives and Corrective Measures During Construction, of AWWA C651. If, in the City's opinion, the pipe contains dirt that may not be removed by subsequent flushing, clean and swab the pipe interior as necessary with a 1 percent chlorine solution (10,000 mg/l) prepared by mixing 1 pound of high-test calcium hypochlorite (65-70 percent Cl) and 8 gallons of water.
- T. Provide access fittings to permit testing and disinfection and bacteria sampling and flushing assemblies.
- U. When necessary to cut pipe at fittings, valves, or elsewhere, the remaining portions may be used to minimize the number of scrap pieces when the Work is complete; however, scrap pieces less than 5 feet in length shall not be used.
- V. Backfill trench for Work of this Section; follow Article 2.6.
- 3.4 INSTALLATION - VALVES AND FIRE HYDRANT ASSEMBLIES
- A. Maximum spacing between fire hydrants shall be no greater than 300 feet center to center distance as measured along the centerline of water main.
- B. Maximum spacing for mainline valves shall be installed no greater than 1,000 feet center to center distance as measured along the center of water main.

C:\Users\nsommers\Desktop\11x17 water main specifications_01-24-17.docx

Page 4 of 7

JANUARY 2017

PAVEMENT AND WATER MAIN SPECIFICATIONS

- C. Set valves plumb and on solid bearing; center and plumb valve box over valve; set box cover flush with finished grade. Provide expansion joint material around portion of box in concrete pavement or sidewalks. Provide a concrete collar around valve box located if asphalt or stone pavement.
- D. Set hydrants plumb and to grade of curb, street, alley, highway, or right-of-way with pumper nozzle toward middle line of street, highway, or right-of-way.
- E. Set hydrant and auxiliary valve on native hardwood blocking; provide stone fill up to drainage port
- F. If necessary, as determined by City, to set a fire hydrant at a greater depth of bury as a result of changing hydrant location from that shown, adjust elevation by furnishing and installing the fire hydrant manufacturer's standard barrel and stem extensions.
- G. Install polyethylene encasement for all buried auxiliary valves and fire hydrant assemblies as specified for water main pipe and fittings.
- H. Install polyethylene encasement for all buried gate and butterfly valves even if not provided for adjacent piping. Comply with AWWA C105 Method A and manufacturer's instructions. Completely tape all overlaps and seams. Repair all rips, punctures, and other damage to the polyethylene.
- I. Paint fire hydrant exterior above ground level with two coats City's standard paint; hydrant shall be painted yellow with bonnet painted white.
- 3.5 INSTALLATION - BACTERIA SAMPLING AND FLUSHING ASSEMBLIES: BLOW-OFF ASSEMBLIES
- A. Install assemblies as shown or noted; comply with component manufacturer's instructions.
- B. Valve shall be located to allow individual taking sample to turn valve on-off while holding sampling jar.
- C. Remove bacteria sampling and flushing assemblies after notice from City that mains have passed all tests and have been placed in service.
- 3.6 CONNECTION TO EXISTING MAINS
- A. Connect new mains to existing mains using proper fittings and in a manner acceptable to the City.
- B. Expose existing mains at connection points 10 days prior to making connections to determine elevation, verify type of pipe,
- confirm outside diameter of pipe, and identify type of restraints existing.
- C. No cut-ins or connections to existing mains shall be made unless at least 48 hours notice is given to the City.
- D. Plan all connecting work to reduce number of shutoffs.
- E. Two days prior to shutting valves on existing lines, notify all affected property owners and the City of such shutoff.
- F. Keep shutoff time to a minimum and do at off-peak hours.
- G. A representative of the City will operate existing valves. Contractor shall not operate existing valves.
- H. The City assumes no responsibility for any delay occasioned by special requirements or conditions which must be met in making connections.
- I. Take extreme care in making connections to prevent contamination
- J. Before making connections to existing mains, wash all fittings, valves, and pipe with clean water, and then disinfect by washing with a chlorine solution having a residual chlorine strength of not less than 50 ppm.
- K. Plugs removed from existing mains that are not damaged may be reused within the Project, and those remaining after completion of construction shall remain the property of the City.
- L. Connections to AC pipe shall be made with appropriate fittings specifically designed for AC pipe connections, and shall be acceptable to the City. All connections to AC pipe shall be via pad adapters. AC pipe must not be cut with a saw. All cuts shall be accomplished by snap cut.
- 3.7 LOCAL ROADS (UNLESS OTHERWISE APPROVED OR DIRECTED)
- A. Prepare subgrade in accordance with ODOT Item 203. Where it is necessary to construct pavement subgrade in fill, remove the existing topsoil beneath the proposed subgrade.
- B. Asphalt Concrete Pavement:
- 1-1/2 inches ODOT Item 448, Type 1 (medium traffic) Surface Course, PG 64-22.
 - 2 inches ODOT Item 448, Type 2 (medium traffic) Intermediate Course, PG 64-22.
 - 10 inches ODOT Item 304, Aggregate Base (placed in 2 lifts).

C:\Users\insommers\Desktop\11x17 water main specifications_01-24-17.docx

Page 5 of 7

JANUARY 2017

PAVEMENT AND WATER MAIN SPECIFICATIONS

- D. Subject main to pressure and leakage test in accordance with Article 3.11 below.
- E. Disinfect water mains in accordance with Standard Details for Disinfection of Water Mains.
- F. When all tests on the water main have been successfully completed and the main has been disinfected, the main will be placed in service by the City. No further Work on the main or its valves shall be permitted without full knowledge and approval of the Work by the City.
- 3.11 PRESSURE AND LEAKAGE TEST
- A. Subject all mains to a pressure and leakage test before connecting to existing mains and before making connections between water mains of differing pipe materials.
- B. Test each valve-to-valve section separately. If Contractor elects to test more than one valve-to-valve section, the allowable leakage for the test will be based upon the shortest valve to valve section in the test
- C. For Mains of PVC Pipe Material: Perform in accordance with AWWA C605 and the following:
1. Isolate main from adjacent existing main and new main of differing pipe materials, and apply pressure by pumping clean water from a sterilized container into the main via 1 inch corporation stops.
 2. Test pressure shall be 150 psi, unless valves in existing mains are involved within section of new main being tested, in which case test pressure may be 100 psi if the City determines that the older existing valves may not seal properly, and shall not vary by more than +5 psi.
 3. Start pressure test in an afternoon and keep pressure on for 18 hours, and then maintain test pressure for an additional 2 hours by pumping water from the container into the main.
 4. At the end of the 2 hour period, measure the water used.
 5. Loss by leakage shall not exceed that as determined by the following formula:
- $$L = \frac{ND\sqrt{P}}{7,400}$$
- L = allowable leakage (gal/hr)
N = # joints in pipe tested
D = nominal dia. of pipe
P = avg test pressure
- L = $\frac{SD\sqrt{P}}{148,000}$
L = allowable leakage (gal/hr)
S = length of pipe tested
D = nominal dia. of pipe
P = avg test pressure
6. When testing against closed metal-seated valves, allow an additional leakage per closed valve of 0.0078 gallons/hour/inch of nominal valve size.
7. When hydrants are in test section, perform test with closed hydrant valves.
8. Pressure test at each side of intermediate valves at this time by shutting each valve, exhausting the pressure on one side, and applying the test pressure of 150 psi or more to the main on the opposite side of the valve for approximately 10 minutes as determined by the City. Repeat this procedure for each intermediate valve.
- D. If main and valves do not pass the leakage test, locate and repair the leak or leaks and repeat testing procedure until successful. Repair visible leaks regardless of the amount of leakage.
- E. Pressure and leakage testing is responsibility of Contractor, who shall provide all materials, labor, and equipment, and pay for the total volume of water used.
- F. For Fire Lines (Water Mains) of Ductile Iron Pipe Material: The City will oversee testing. Perform in accordance with AWWA C600 and the following:
1. Isolate mains lines from adjacent existing main and new main of differing pipe materials, and apply pressure by pumping clean water from a sterilized container into the main via 1 inch corporation stops.
 2. Test pressure shall be 200 psi, unless valves in existing mains are involved within section of new main being tested, in which case test pressure may be 100 psi if OWNER determines that the older existing valves may not seal properly, and shall not vary by more than +5 psi.
 3. Start pressure test in an afternoon and keep pressure on for 18 hours, and then maintain test pressure for an additional 2 hours by pumping water from the container into the main.
 4. At the end of the 2 hour period, measure the water used.
 5. Loss by leakage shall not exceed that as determined by the following formula:

C:\Users\insommers\Desktop\11x17 water main specifications_01-24-17.docx

Page 6 of 7

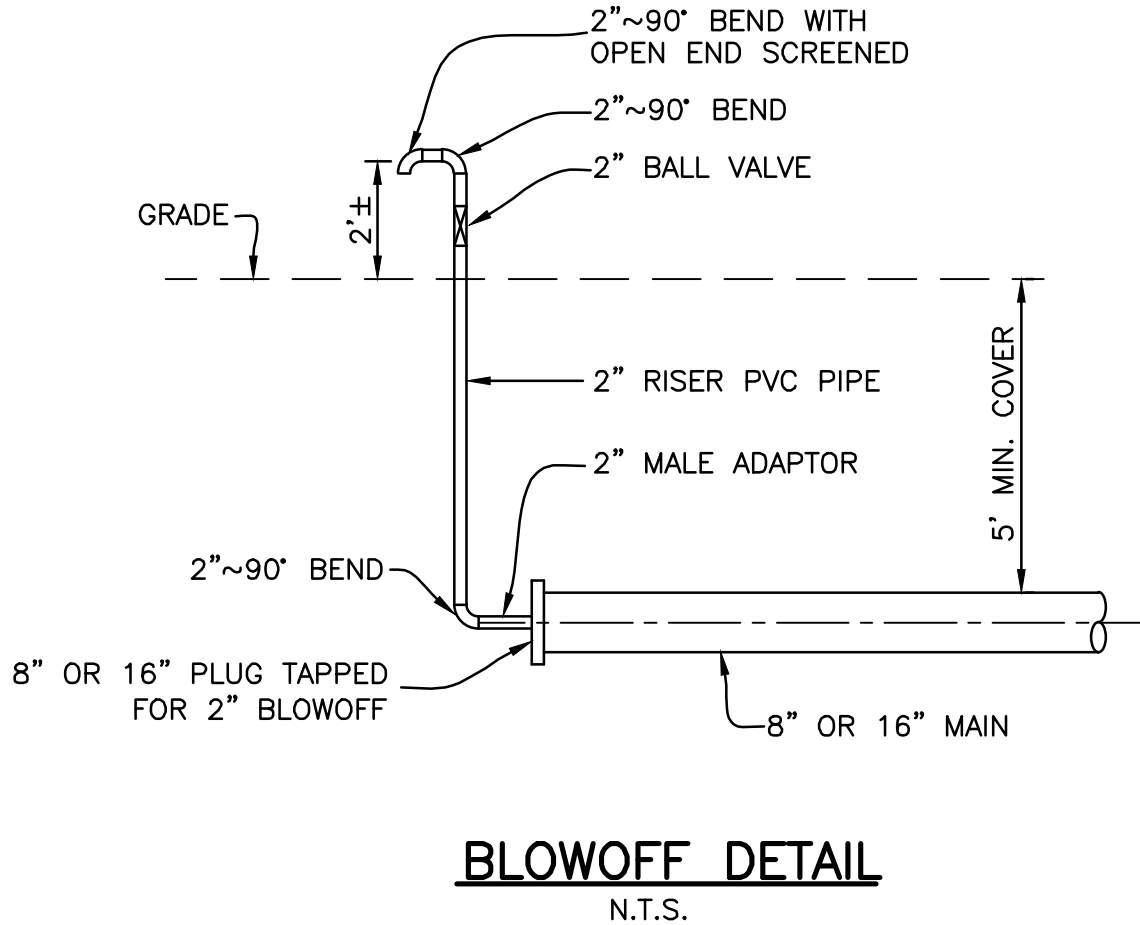
JANUARY 2017

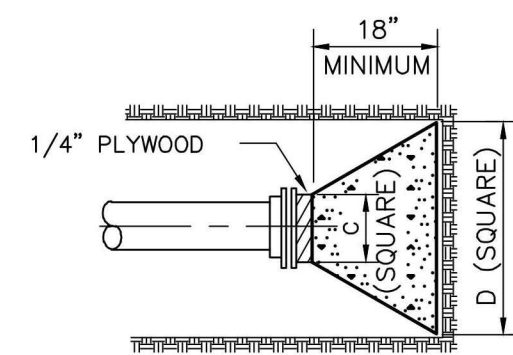
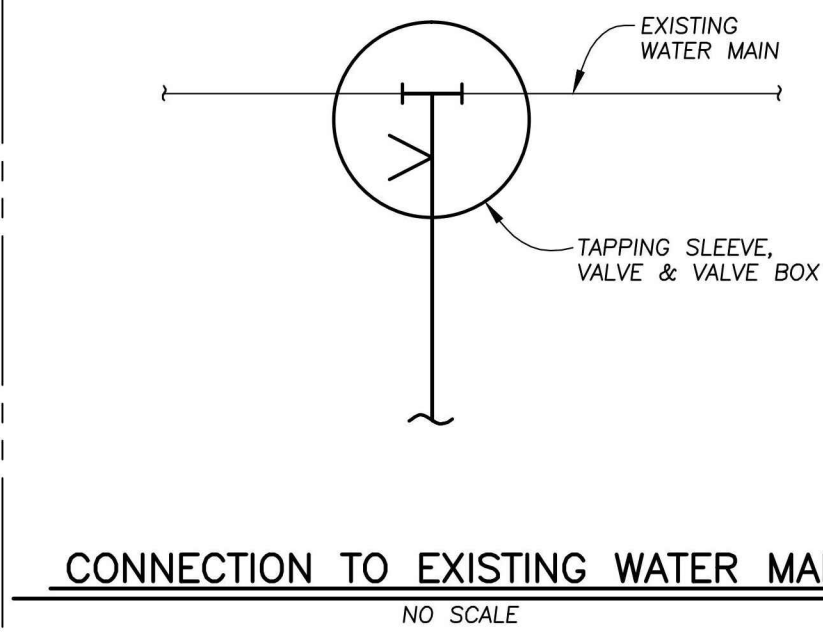
4. On aggregate base, apply ODOT Item 408 Prime Coat at rate of 0.35 gallons per square yard. Installation to be directed by the City.
5. ODOT Item 407; apply tack coat at the rate of 0.04 gallons per square yard to be placed between intermediate and surface courses and joints.
6. Sealer for Contact and Meeting Surfaces and Joints: Comply with ODOT Items 401.14 and 401.17.
7. Pavement Sealer: When requested by and as approved by the City.
- C. Concrete Driveways and Parking Areas: ODOT Item 452.
- D. Concrete Curb: ODOT Item 609.04 Type 2 Combination Curb and Gutter or Type 6 Curb.
- E. Pipe Underdrains: ODOT Item 605.03, and as shown on ODOT Standard drawing DM-1.2 and approved Drawings.
- 3.8 MONUMENT ASSEMBLY (IN PAVED AREAS)
- A. Place Type C monuments in accordance with ODOT Item 604, and Standard Construction Drawing RM-1.1.
- 3.9 CURB RAMP DETECTABLE WARNING TRUNCATED DOMES
- A. Material to be supplied shall meet ODOT's Office of Roadway Engineering Services Truncated Domes Approved List.
- B. Installation shall be in accordance with ODOT's latest Standard Construction Drawings for New Curb Ramps (with Truncated Domes) BP-7.1 and Retrofitted Curb Ramps BP-7.2.
- C. All curb ramps/retrofitted curb ramps shall include new ODOT Class C concrete where truncated dome material is to be installed.
- D. The City will approve proposed material to be installed.
- 3.10 FIELD QUALITY CONTROL
- A. The City may check compaction of the bedding and backfill at any time.
- B. For compacted bedding in trenches, the City may employ a testing laboratory to make tests on Site and will pay all costs for the first set of tests performed per lift. If compaction fails to meet Specifications, all succeeding tests for that lift shall be at expense of Contractor.
- C. Check valve boxes after installation and remove stones, dirt, debris, and backfill material.
- Tablet Method:
1. Provide an average chlorine dose of 25 mg/l by placing calcium hypochlorite granules or 5 gram tablets in main as it is being installed.
 2. Place granules at upstream end of first pipe section, at the upstream end of each branch main and at 500 foot intervals in the following quantities based on pipe diameter:
- | PIPE DIAMETER
(INCHES) | CALCIUM
HYPOCHLORITE
GRANULES
(OUNCES) |
|---------------------------|---|
| 4 | 1.7 |
| 6 | 3.8 |
| 8 | 6.7 |
| 10 | 10.5 |
| 12 | 15.1 |
| 14 and Larger | D*15.1 |
- Where D is the inside pipe dia. In feet – D=d/12
3. Place tablets in each pipe section, with number of tablets determined by the formula $(0.0012 * d^3 * L)$ rounded to the next highest integer, where "d" is the nominal inside diameter of pipe in inches, and "L" is the length of pipe section in feet, and place 1 tablet in each hydrant, hydrant branch, and other appurtenance. Attach tablets using a USDA approved food grade adhesive on only the side attached and at the inside top of the pipe upon pipe installation, and with approximately equal number of tablets at each end of a given pipe length.
 4. Fill main with potable water such that water within the main will flow at a velocity no greater than 1 fps.
 5. Take precautions as necessary to ensure air pockets are eliminated.
 6. Keep water in pipe at least 24 hours, except if water temperature is less than 41 degrees F, then keep water in pipe at least 48 hours. A detectable chlorine residual should be found at each sampling point after the 24 hour period.
- E. Continuous Feed Method:
1. Exhaust all air in main and flush main as thorough as possible with water pressure and outlets available. If no hydrant is installed at end of main, provide a tap large enough to develop a minimum 2.5 fps velocity in main. Disinfection can be accomplished by injecting a 1 percent chlorine solution into the main at a point not more than 10 feet downstream from beginning of new main. Pump potable water for the injector for delivering the 1 percent chlorine solution from a clean and sterile container. Control flow of water from the existing distribution system or other approved potable water source so as to flow slowly into

C:\Users\insommers\Desktop\11x17 water main specifications_01-24-17.docx

PAVEMENT AND WATER MAIN SPECIFICATIONS

- new main during chlorine application, with rate of chlorine application in such proportion to the rate of water entering the main that the solution of clean water and chlorine in the main will have 25 mg/l minimum free chlorine.
2. Keep the solution in the main for 24 hours, during which time all valves and hydrants in the treated section shall be operated to ensure disinfection of appurtenances.
 3. At the end of the 24 hour period, the treated water in all portions of the main shall have a residual of not less than 10 mg/l free chlorine.
- F. Slug Method:
1. Place calcium hypochlorite granules in main during construction.
 2. Fill the main slowly and completely and exhaust all air.
 3. Flush to remove particulates.
 4. Flow a slug of water with 100 mg/l chlorine concentration slowly through main so the main and its appurtenances will be exposed to the highly chlorinated water for minimum 3 hours. If at any time the free chlorine residual in the slug drops below 50 mg/l, stop the flow, relocate the chlorination equipment at the head of the slug, and as flow is resumed, apply chlorine to restore the free chlorine in the slug to minimum 100 mg/l.
 5. Operate valves and hydrants as the chlorinated water flows past to disinfect appurtenances and pipe branches.
- G. Bacteriological Tests:
1. At least two samples taken at 24 hour intervals shall show the water to be safe.
 2. At least one set of samples shall be collected from every 1200 feet of new water main, plus one set from the end of the main and at least one set from each branch.
 3. Before taking a sample, allow the water to flow from the sampling point for at least 1 minute. Use bleach solution, or approved, as specified by AWWA to kill all bacteria. Nothing should be allowed to touch the lip or top of the sample bottle while the sample is being taken. No hose or fire hydrant shall be used in the collection of samples.
 4. If bacteriological tests show the water to be safe, the main may be placed in service in accordance with Article 3.6.
 5. If bacteriological tests show the water to be unsafe, the main shall be completely disinfected again by Contractor, at no additional cost to the City.
- 3.13 COMPLETION OF TESTS
- A. When all tests on the water main have been successfully completed, main will be placed in service by the City.
- B. No further Work on the main, valves, hydrants, and appurtenances will be permitted without full knowledge of the Work by the City.





TYPE	SIZE	PLUGS	
		C	D
2000 PSF SOIL	6" ✱	10"	24"
	8"	12"	32"
	10"	14"	40"
	12"	16"	47"
	14"	18"	54"
	16"	20"	61"
	20"	24"	74"
	24"	28"	88"

NOTE
BASED ON 150 PSI STATIC PRESSURE.
ALL BEARING SURFACES TO BE CARRIED TO UNDISTURBED GROUND.

DEAD END	LENGTHS OF RESTRAINED PIPE
8"	60'
12"	100'
16"	120'

FITTINGS	LENGTHS OF RESTRAINED PIPE FOR LARGER PIPE
REDUCER	
8" X 4"	60'
8" X 6"	40'
12" X 6"	80'
12" X 8"	60'

FITTINGS		LENGTHS OF RESTRAINED PIPE FOR TEE BRANCH
TEE		
8" X 6"		60'
8" X 8"		60'
12" X 6"		60'
12" X 8"		60'
12" X 12"		100'
16" X 8"		60'
16" X 12"		100'
16" X 16"		120'

FITTINGS	LENGTHS OF RESTRAINED PIPE EACH SIDE OF BEND
8" 11 1/4"	20'
8" 22 1/2"	20'
8" 45"	40'
8" 90"	80'
12" 11 1/4"	20'
12" 22 1/2"	20'
12" 45"	60'
12" 90"	120'
16" 11 1/4"	20'
16" 22 1/2"	40'
16" 45"	60'
16" 90"	140'

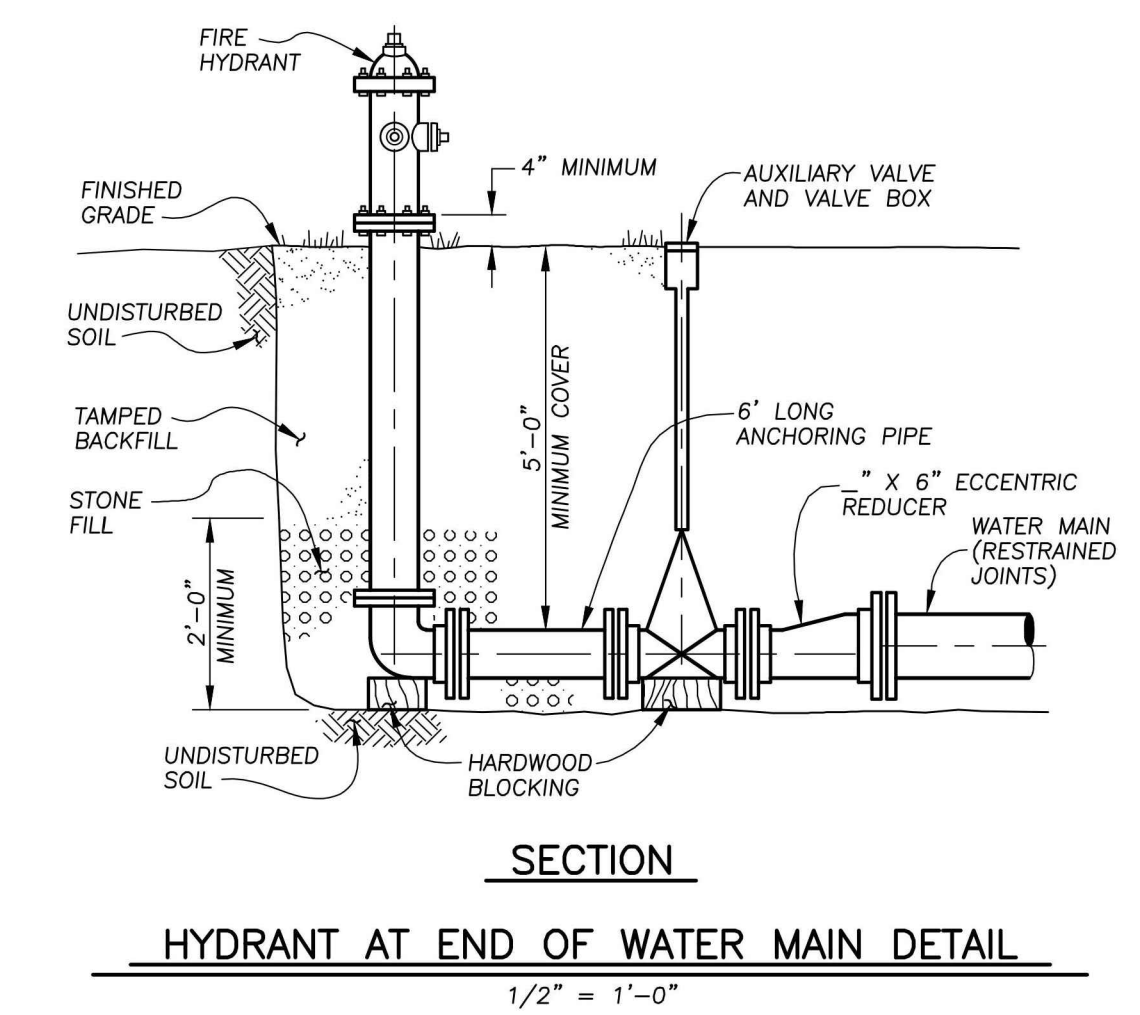
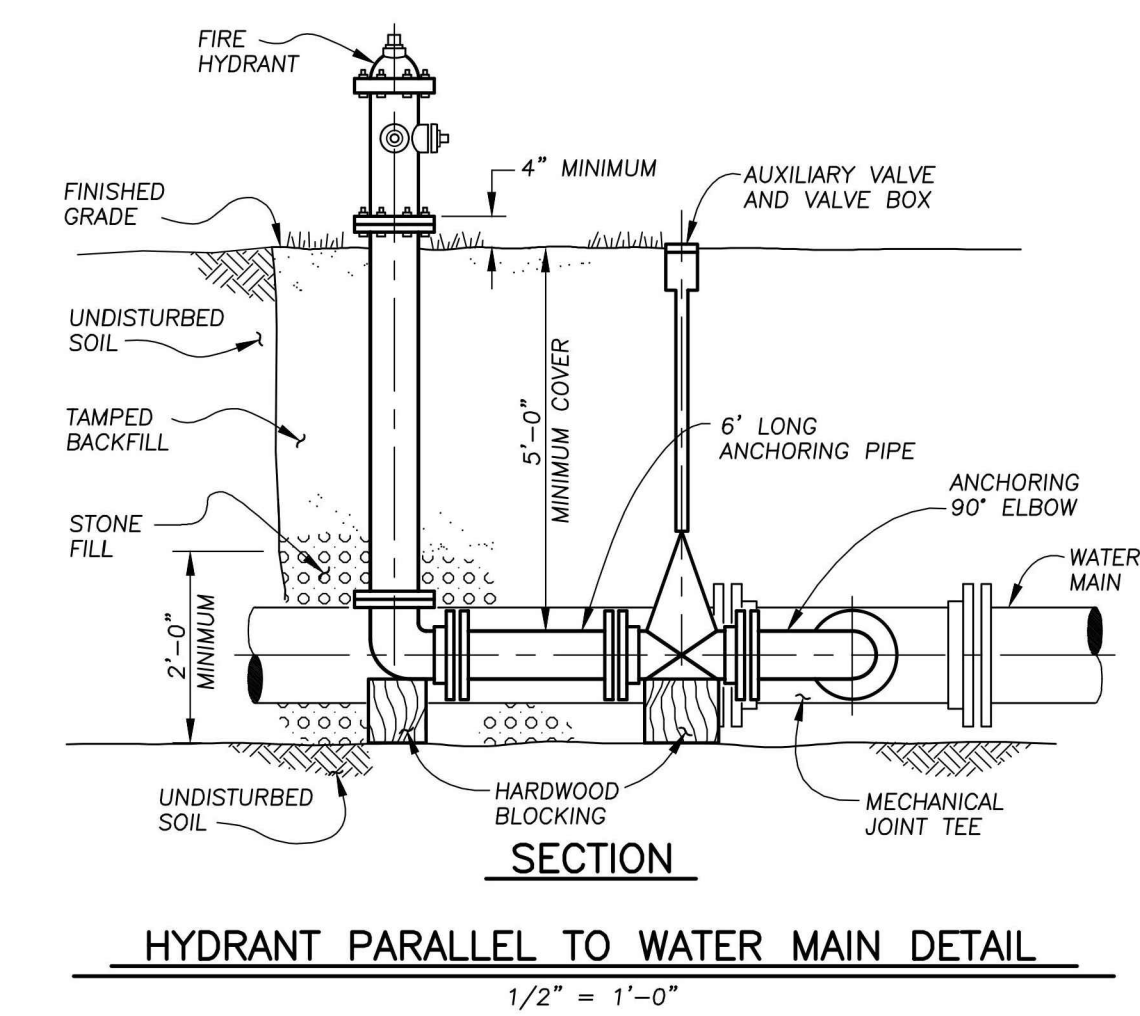
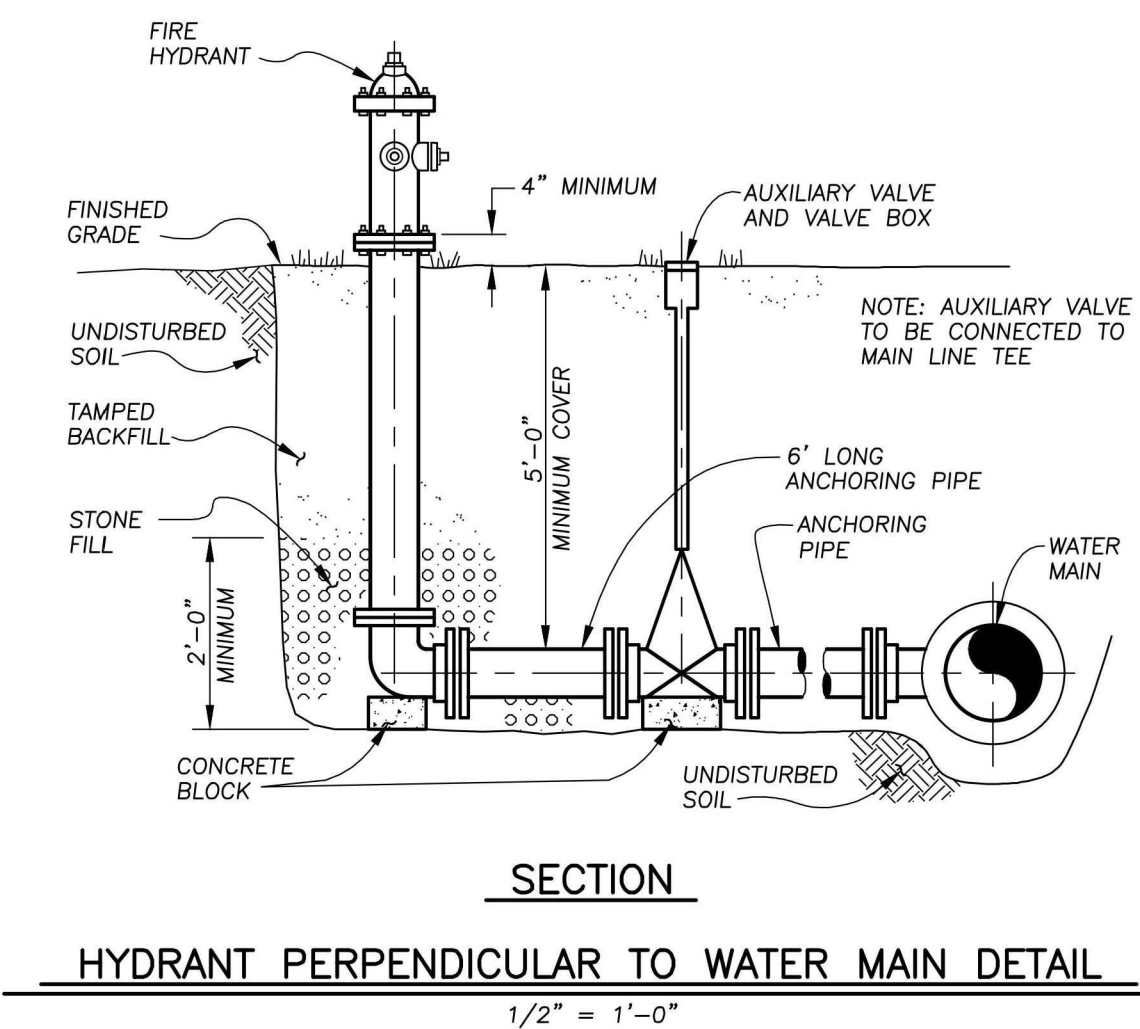
FITTINGS	LENGTHS RESTRAINED EACH SIDE BEND
VERTICAL BEND (UP)	
8" 11 1/4"	20'
8" 22 1/2"	20'
8" 45"	40'
8" 90"	40'
12" 11 1/4"	20'
12" 22 1/2"	20'
12" 45"	60'
12" 90"	120'
16" 11 1/4"	20'
16" 22 1/2"	40'
16" 45"	60'
16" 90"	140'

FITTINGS	LENGTHS RESTRAINED EACH SIDE BEND
VERTICAL BEND (DOWN)	
8" 11 1/4"	20'
8" 22 1/2"	40'
8" 45"	60'
8" 90"	120'
12" 11 1/4"	20'
12" 22 1/2"	40'
12" 45"	80'
12" 90"	180'
16" 11 1/4"	40'
16" 22 1/2"	60'
16" 45"	100'
16" 90"	240'

RESTRAIN ALL JOINTS WITHIN THE INDICATED
DISTANCES FOR THE FITTINGS DESCRIBED.

RESTRAINED JOINTS TABLE

BASED ON 150 PSI STATIC PRESSURE



RECORD CONSTRUCTION 8/19/24

COVENTRY POINTE PLAT 4 10E08869-4

*PAVEMENT AND WATER MAIN
STANDARD DETAILS*

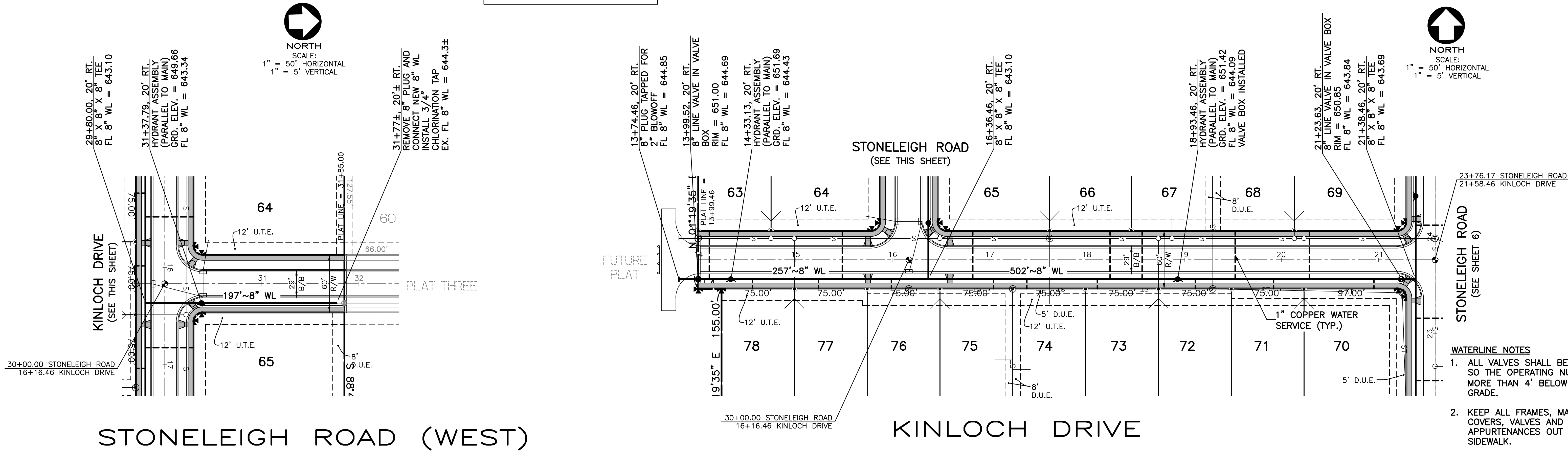
CITY OF PERRYSBURG, OHIO

DEPARTMENT OF PUBLIC SERVICE

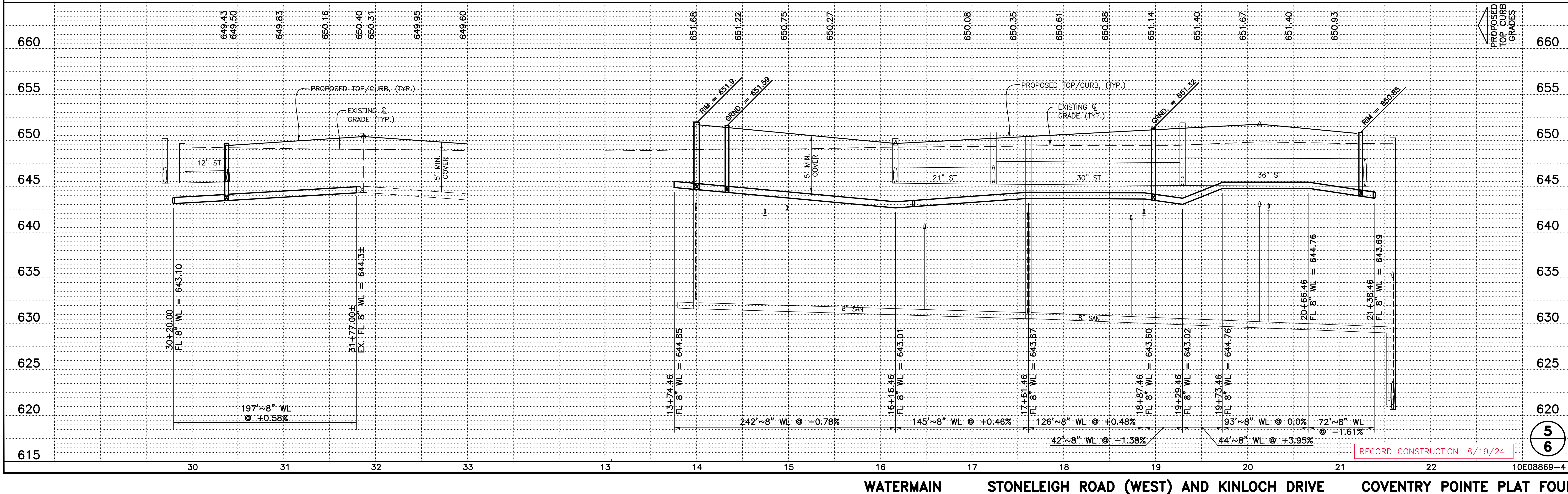
DIVISION OF WATER

EASEMENT ABBREVIATIONS	
S.E.	SANITARY EASEMENT
D.U.E.	DRAINAGE & UTILITY EASEMENT
U.T.E.	UTILITY & TOLEDO EDISON EASEMENT

FELLER, FINCH & ASSOCIATES, INC.			
REVISION	DATE	DESIGN BY:	AMF
		DRAWN BY:	AMF
		DATE:	11-30-21
		CHK'D BY:	GNF
		DRAWING NO.	08869WP041-4B

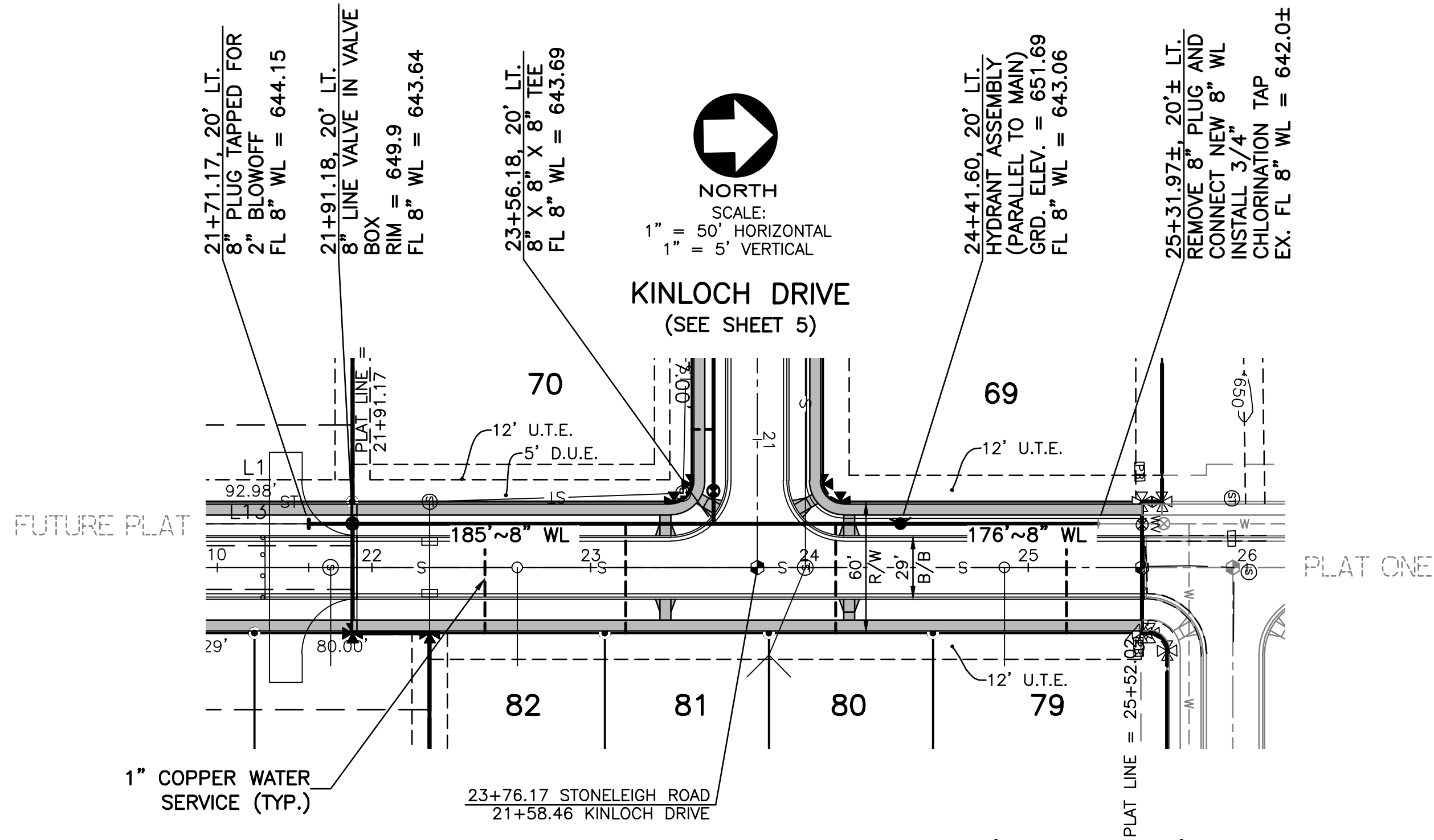


- WATERLINE NOTES**
- ALL VALVES SHALL BE EXTENDED SO THE OPERATING NUT IS NOT MORE THAN 4" BELOW FINISHED GRADE.
 - KEEP ALL FRAMES, MANHOLE COVERS, VALVES AND APPURTENANCES OUT OF THE SIDEWALK.
 - COORDINATE WITH THE DEPARTMENT OF PUBLIC UTILITIES FOR PROCEDURES AND MATERIALS TO ABANDON THE 3/4" CHLORINATION TAP.



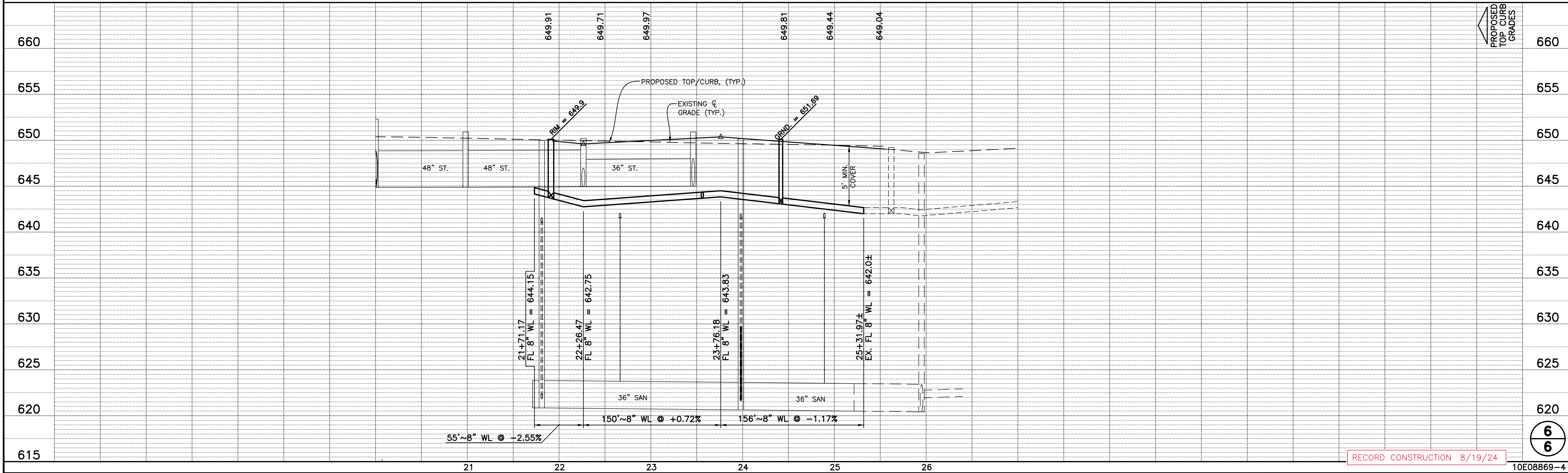
EASEMENT ABBREVIATIONS	
S.E.	SANITARY EASEMENT
D.U.E.	DRAINAGE & UTILITY EASEMENT
U.T.E.	UTILITY & TOLEDO EDISON EASEMENT

FELLER, FINCH & ASSOCIATES, INC.			
REVISION	DATE	DESIGN BY:	AMF
		DRAWN BY:	AMF
		DATE:	11-30-21
		CHK'D BY:	GNF
		DRAWING NO.	08869WP04A1-AB



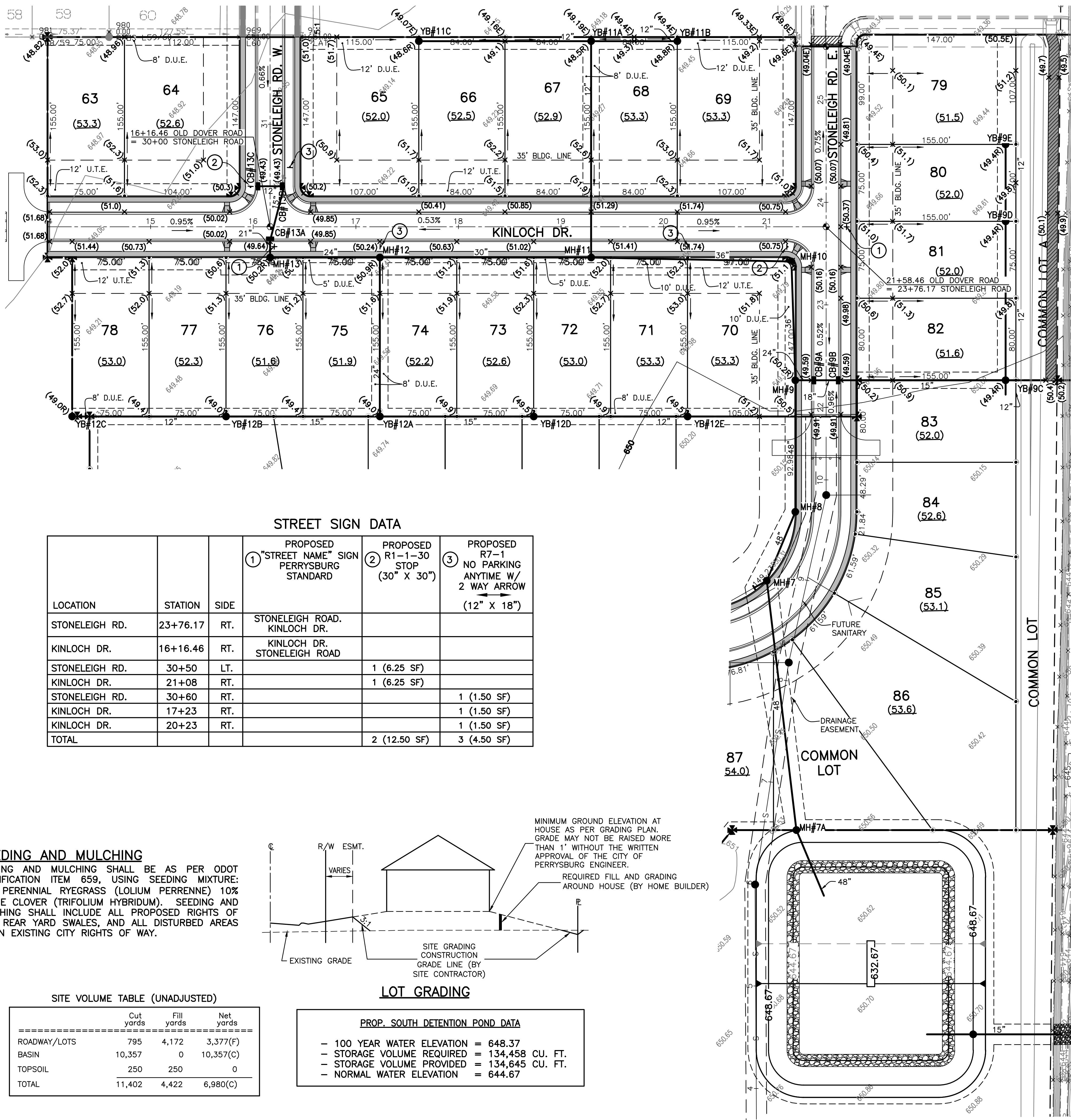
STONELEIGH ROAD (EAST)

- WATERLINE NOTES**
- ALL VALVES SHALL BE EXTENDED SO THE OPERATING NUT IS NOT MORE THAN 4' BELOW FINISHED GRADE.
 - KEEP ALL FRAMES, MANHOLE COVERS, VALVES AND APPURTENANCES OUT OF THE SIDEWALK.
 - COORDINATE WITH THE DEPARTMENT OF PUBLIC UTILITIES FOR PROCEDURES AND MATERIALS TO ABANDON THE 3/4" CHLORINATION TAP.

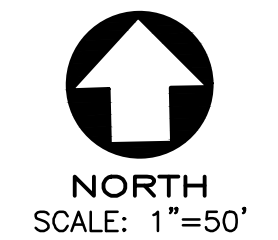


RECORD CONSTRUCTION 8/19/24

10E08869-4



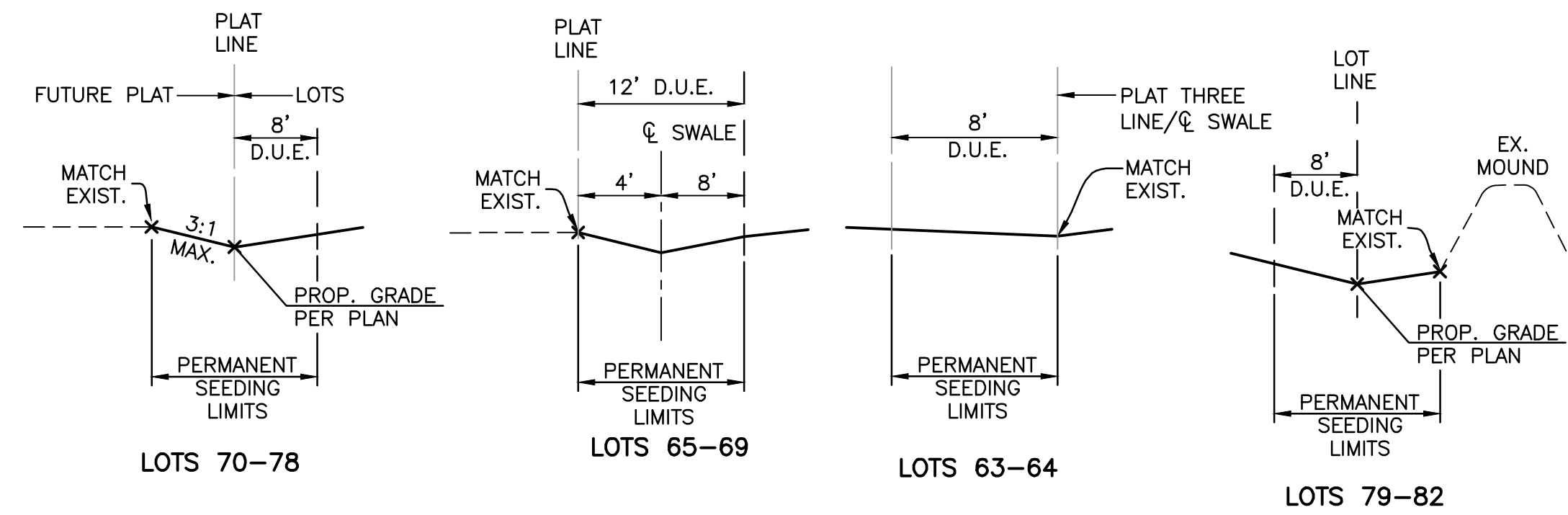
EASEMENT ABBREVIATIONS			
S.E.	SANITARY	EASEMENT	
D.U.E.	DRAINAGE & UTILITY	EASEMENT	
U.T.E.	UTILITY & TOLEDO EDISON	EASEMENT	



FELLER, FINCH & ASSOCIATES, INC.			
REVISION	DATE	DESIGN BY:	AMF
		DRAWN BY:	AMF
		CHECKED BY:	GNF
		DRAWING NO:	10-08869D03A1

BENCH MARK DATA

WOOD COUNTY BENCH MARK
MCO668 USGS SURVEY DISC IN CONCRETE MONUMENT
SOUTHWEST CORNER OF THE INTERSECTION OF HULL
PRAIRIE ROAD & FIVE POINT ROAD.
ELEVATION 650.10
SITE BENCH #201
MAG NAIL SET IN WEST FACE OF 2ND POWER POLE SOUTH
OF ROACHTON ROAD ON FORT MEIGS ROAD.
ELEVATION 651.45
SITE BM #202
MAG NAIL SET IN WEST FACE OF 1ST POWER POLE NORTH
OF FIVE POINT ROAD ON FORT MEIGS ROAD.
ELEVATION 653.08



REAR YARD DRAINAGE SWALES

REAR YARD DRAINAGE SWALES SHALL BE GRADED AT THE
TIME OF ROADWAY GRADING. SWALES SHALL BE SEEDED,
MULCHED AND FERTILIZED AS SOON AS WEATHER PERMITS.

NOTE:
THE HOME BUILDER SHALL INSTALL
AND MAINTAIN A "GRAVEL
CONSTRUCTION ENTRANCE" TO
CONTROL THE TRACKING OF DEBRIS
ONTO PUBLIC ROADS. IT SHALL
CONSIST OF A MINIMUM OF 6" OF
2" TO 3" SIZE STONE, 20 FEET
WIDE AND 40 FEET IN LENGTH.

SITE ZONING DATA	
LOCATION:	CITY OF PERRYSBURG
ZONING CLASSIFICATION:	R-3
MINIMUM SETBACKS:	
FRONT	- 35'
SIDE	- 8' MIN.
SUM OF SIDES	- 20'
REAR	- 35'

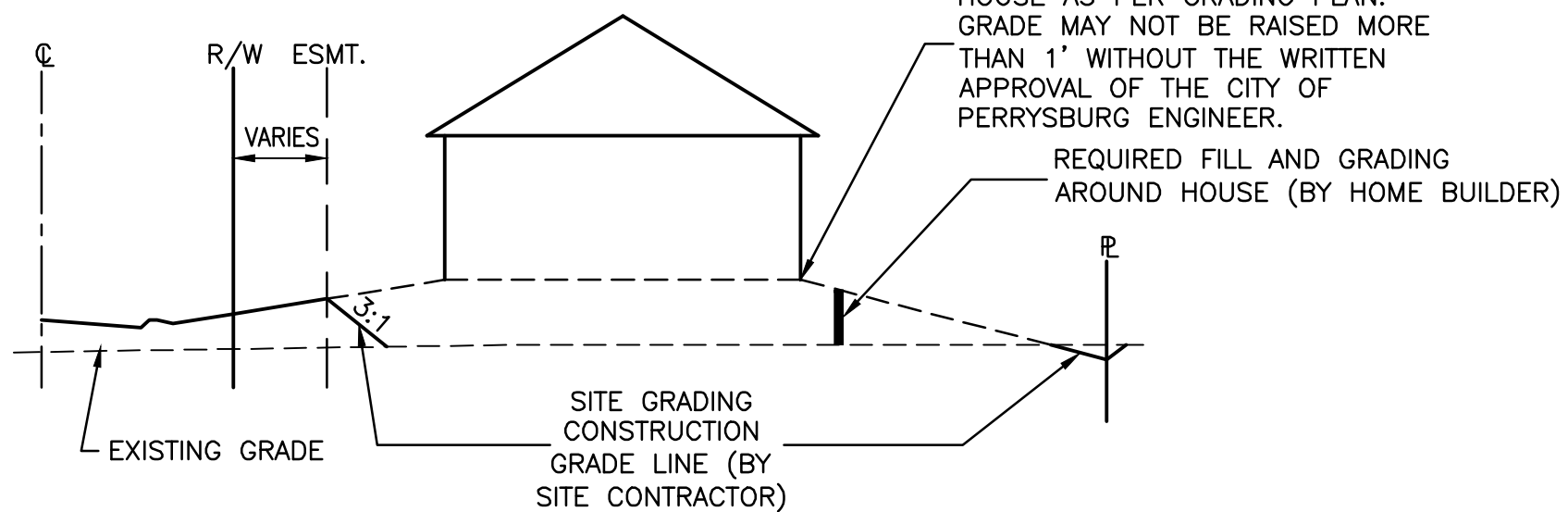
- LEGEND
- EXISTING GROUND ELEVATIONS
 - EXISTING CONTOURS
 - PROPOSED ELEVATIONS
 - PROPOSED GROUND ELEVATIONS AT HOUSE
 - PROPOSED = EXISTING
 - PROPOSED TOP OF WALK ELEVATIONS
 - PROPOSED RIM ELEVATIONS
 - ADD 600.00 TO ALL PROPOSED SPOT ELEVATIONS.
 - ALL PAVEMENT GRADES ARE TOP OF CURB.
 - IRON PIN (BY SURVEYOR)
 - MONUMENT ASSEMBLY (ODOT RM-1.1) BY CONTRACTOR
 - EXISTING MONUMENT ASSEMBLY
 - MONUMENT ASSEMBLY (WOOD COUNTY, TYPE A) BY SURVEYOR
 - CONCRETE WALK & RAMPS BY OTHERS.
 - CONCRETE WALK BY CONTRACTOR.
 - 10' WIDE ASPHALT PATH BY CONTRACTOR.

STREET SIGN DATA

LOCATION	STATION	SIDE	PROPOSED "STREET NAME" SIGN PERRYSBURG STANDARD	PROPOSED R1-1-30 STOP (30" X 30")	PROPOSED R7-1 NO PARKING ANYTIME W/ 2 WAY ARROW (12" X 18")
STONELEIGH RD.	23+76.17	RT.	STONELEIGH RD. KINLOCH DR.		
KINLOCH DR.	16+16.46	RT.	KINLOCH DR. STONELEIGH ROAD		
STONELEIGH RD.	30+50	LT.		1 (6.25 SF)	
KINLOCH DR.	21+08	RT.		1 (6.25 SF)	
STONELEIGH RD.	30+60	RT.			1 (1.50 SF)
KINLOCH DR.	17+23	RT.			1 (1.50 SF)
KINLOCH DR.	20+23	RT.			1 (1.50 SF)
TOTAL				2 (12.50 SF)	3 (4.50 SF)

SEEDING AND MULCHING

SEEDING AND MULCHING SHALL BE AS PER ODOT
SPECIFICATION ITEM 659, USING SEEDING MIXTURE:
90% PERENNIAL RYEGRASS (LOLIUM PERRENNE) 10%
ALSIKE CLOVER (TRIFOLIUM HYBRIDUM). SEEDING AND
MULCHING SHALL INCLUDE ALL PROPOSED RIGHTS OF
WAY, REAR YARD SWALES, AND ALL DISTURBED AREAS
WITHIN EXISTING CITY RIGHTS OF WAY.



LOT GRADING

PROP. SOUTH DETENTION POND DATA			
- 100 YEAR WATER ELEVATION	=	648.37	
- STORAGE VOLUME REQUIRED	=	134,458 CU. FT.	
- STORAGE VOLUME PROVIDED	=	134,645 CU. FT.	
- NORMAL WATER ELEVATION	=	644.67	

SITE VOLUME TABLE (UNADJUSTED)

	Cut yards	Fill yards	Net yards
ROADWAY/LOTS	795	4,172	3,377(F)
BASIN	10,357	0	10,357(C)
TOPSOIL	250	250	0
TOTAL	11,402	4,422	6,980(C)

ORDINANCE 6-2025

ACCEPTING STREETS, ALLEYS, AND GREEN SPACE AND OTHER DEDICATED INFRASTRUCTURE PER CODIFIED ORDINANCE §1295.07 (SUMMERFIELD PLAT 5); AND DECLARING AN EMERGENCY

WHEREAS, Codified Ordinance §1295.07 requires that dedication of certain improvements within subdivisions be accepted by ordinance; and

WHEREAS, the streets, alleys, green spaces, and other dedicated infrastructure and improvements in a subdivision, as summarized on Exhibit A, (Summerfield Plat 5) have been completed to the satisfaction of the City of Perrysburg, Ohio, and such improvements have been offered for dedication and now should be accepted and dedicated; and

WHEREAS, the value of the property includes but is not limited to:

Sanitary	2425 linear feet	\$179,000.00
Water	1565 linear feet	\$172,000.00
Roadway	1412 linear feet	\$148,000.00
Storm	2765 linear feet	\$255,100.00

NOW THEREFORE, BE IT ORDAINED BY THE COUNCIL OF THE CITY OF PERRYSBURG, WOOD COUNTY, OHIO:

SECTION 1. In conformity with Codified Ordinance §1295.07 and all otherwise applicable law, the City of Perrysburg, Ohio, hereby accepts for dedication the streets, alleys, green spaces, and other dedicated infrastructure and improvements of the subdivisions listed on Exhibit A, (Summerfield Plat 5) which is attached hereto and incorporated as if fully restated herein.

SECTION 2. It is found and determined that all formal actions of Council concerning or relating to the passage of this Ordinance were adopted in an open meeting of the Council, and that all deliberations of this Council and any of its committees, that resulted in such formal actions, were in meetings open to the public in compliance with all legal requirements of the City of Perrysburg and the State of Ohio.

SECTION 3. This Ordinance is hereby declared to be an emergency measure necessary for the immediate preservation of the public peace, health, and safety of the citizens of the City of Perrysburg, Wood County, Ohio, in order to avoid any confusion regarding rights, duties, and obligations with respect to the subject infrastructure, and

shall be in full force and effect from and immediately after its passage and approval by the Mayor.

President of Council

Mayor

PASSED: _____

ATTEST: _____

APPROVED: _____

Timothy W. Effler
LAW DIRECTOR

PAVEMENT AND DRAINAGE IMPROVEMENTS
FOR
SummerField Plat Five
CITY OF PERRYSBURG, WOOD COUNTY, OHIO

INDEX OF SHEETS

TITLE SHEET.....	1
GENERAL NOTES.....	2
GENERAL NOTES AND BASIN DETAILS.....	3
DETAILS.....	4-5
GENERAL NOTES AND SUMMARY.....	6
SITE GRADING PLAN AND STREET SIGN PLAN.....	7
TYPICAL SECTIONS AND INTERSECTION DETAILS.....	8
PLAN AND PROFILE.....	9-11
CROSS-SECTIONS.....	12-18
EPSC.....	19-22

BENCH MARK DATA

WOOD COUNTY BENCH MARK
MC0668 USGS SURVEY DISC IN CONCRETE MONUMENT
SOUTHWEST CORNER OF THE INTERSECTION OF HULL PRAIRIE
ROAD & FIVE POINT ROAD.

ELEVATION 650.10

SITE BM #8019
TOP CASTING SANITARY MANHOLE ON SOUTHEAST CORNER OF
SUMMERFIELD BLVD. AND SUNDERLAND DRIVE.

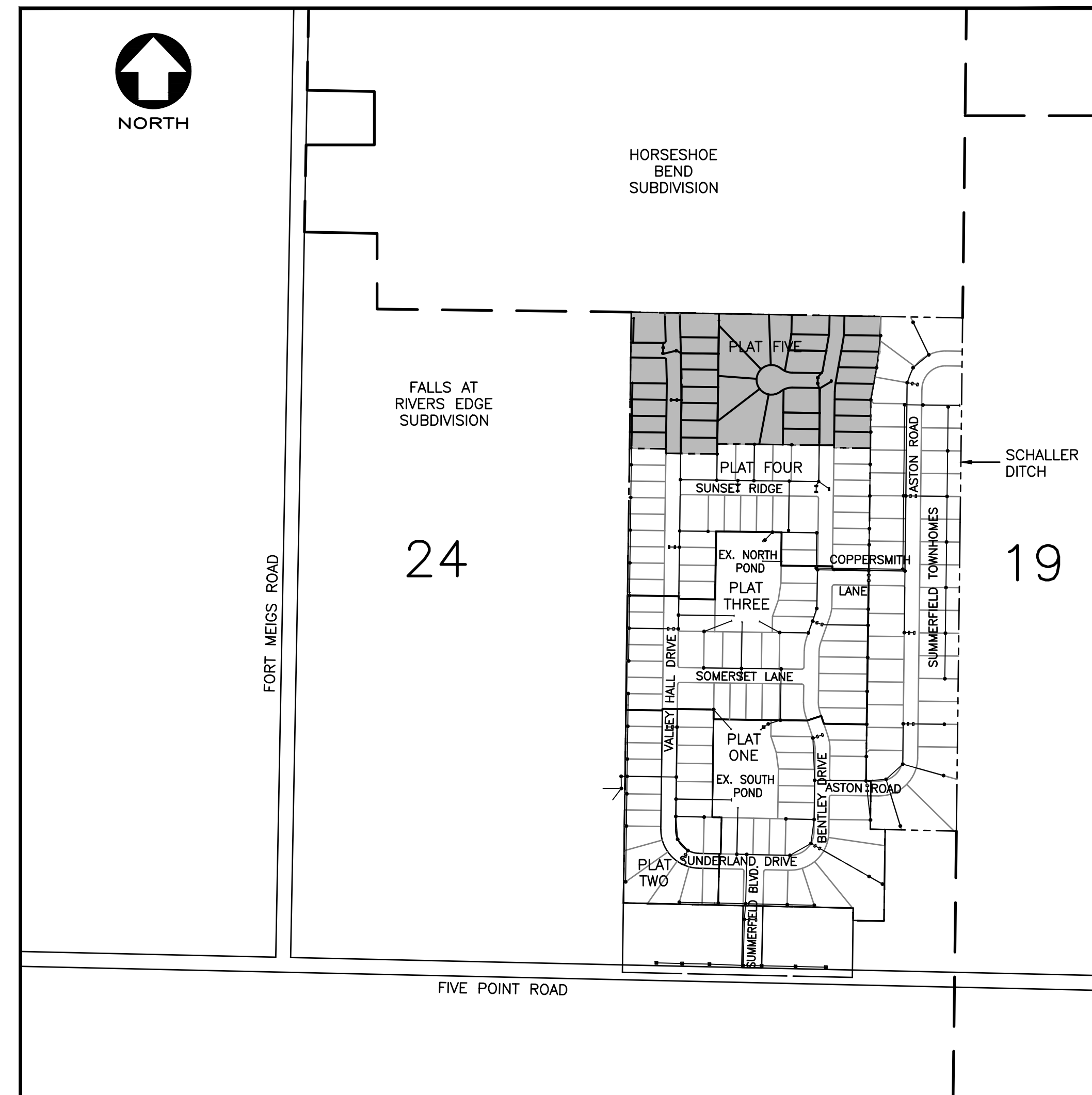
ELEVATION 651.94

SITE BM #90
☒ MONUMENT AT THE INTERSECTION OF BENTLEY DRIVE AND
ASTON ROAD. "X" CUT NORTH RIM OF MON BOX.

ELEVATION 651.27

CONVENTIONAL SIGNS

	PROPOSED	EXISTING
SANITARY SEWER.....	—S—	—S—
STORM SEWER.....	—ST—	—ST—
WATERLINE.....	—W—	—W—
SANITARY MANHOLE.....	●	⊙
STORM MANHOLE.....	●	⊙
CATCH BASIN.....	■	⊞
YARD BASIN.....	●	⊞
WATER VALVE IN MANHOLE.....	●	⊙
HYDRANT.....	●	⊙
CENTERLINE.....	—	—
ODOT RM-1.1 MONUMENT.....	⊕	⊕
WOOD COUNTY TYPE A MONUMENT ASSEMBLY.....	⊕	⊕



KEY MAP
SCALE: 1"=400'

STORM WATER FACILITIES WHICH ARE NOT LOCATED IN
EASEMENTS OR THE PUBLIC RIGHT-OF-WAY SHALL BE PRIVATELY
OWNED AND MAINTAINED. FAILURE TO MAINTAIN PRIVATELY OWNED
STORM WATER FACILITIES MAY RESULT IN ENFORCEMENT ACTION.

STANDARD DRAWINGS

ODOT

RM-1.1 ROADWAY MONUMENTS	1/15/21
BP-7.1 CURB RAMPS	1/21/22

WOOD COUNTY

TYPE A MONUMENT ASSEMBLY
STANDARD BARRICADE
MOUNTABLE CURB & GUTTER, TYPE F

SUPPLEMENTAL SPECIFICATIONS (ODOT)

811 CONDUIT AND DRAINAGE STRUCTURES	1/18/13
-------------------------------------	---------

SCALES

PLAN.....	1" = 50'
PROFILE, HORIZONTAL.....	1" = 50'
PROFILE, VERTICAL.....	1" = 5'
CROSS-SECTION, HORIZONTAL.....	1" = 20'
CROSS-SECTION, VERTICAL.....	1" = 5'

DRAINAGE APPROVED BY

Alice Godsey 6/9/2022
CITY OF PERRYSBURG DATE
DIRECTOR OF PUBLIC UTILITIES
ALICE GODSEY, P.E.

PAVEMENT APPROVED BY

Rob Ross 6/17/22
CITY OF PERRYSBURG DATE
DIRECTOR OF PUBLIC SERVICE
ROB ROSS

DEVELOPED BY:

SUMMERFIELD PERRYSBURG DEVELOPMENT
3150 REPUBLIC BLVD., SUITE 3
TOLEDO, OHIO 43615
PHONE: 419-841-4831

Mr. H. H. H. H. 7/5/22
NAME DATE



OHIO UTILITIES
PROTECTION SERVICE
CALL 1-800-362-2764
TWO WORKING DAYS
BEFORE YOU DIG
NON-MEMBERS MUST BE
CALLED DIRECTLY

1683 Woodlands Drive, Maumee, Ohio 43537
Phone: (419) 893-3680
Fax: (419) 893-2982
www.fellerfinch.com

FellerFinch
& ASSOCIATES, INC.
Engineers • Surveyors

PAVEMENT AND DRAINAGE

SUMMERFIELD PLAT FIVE

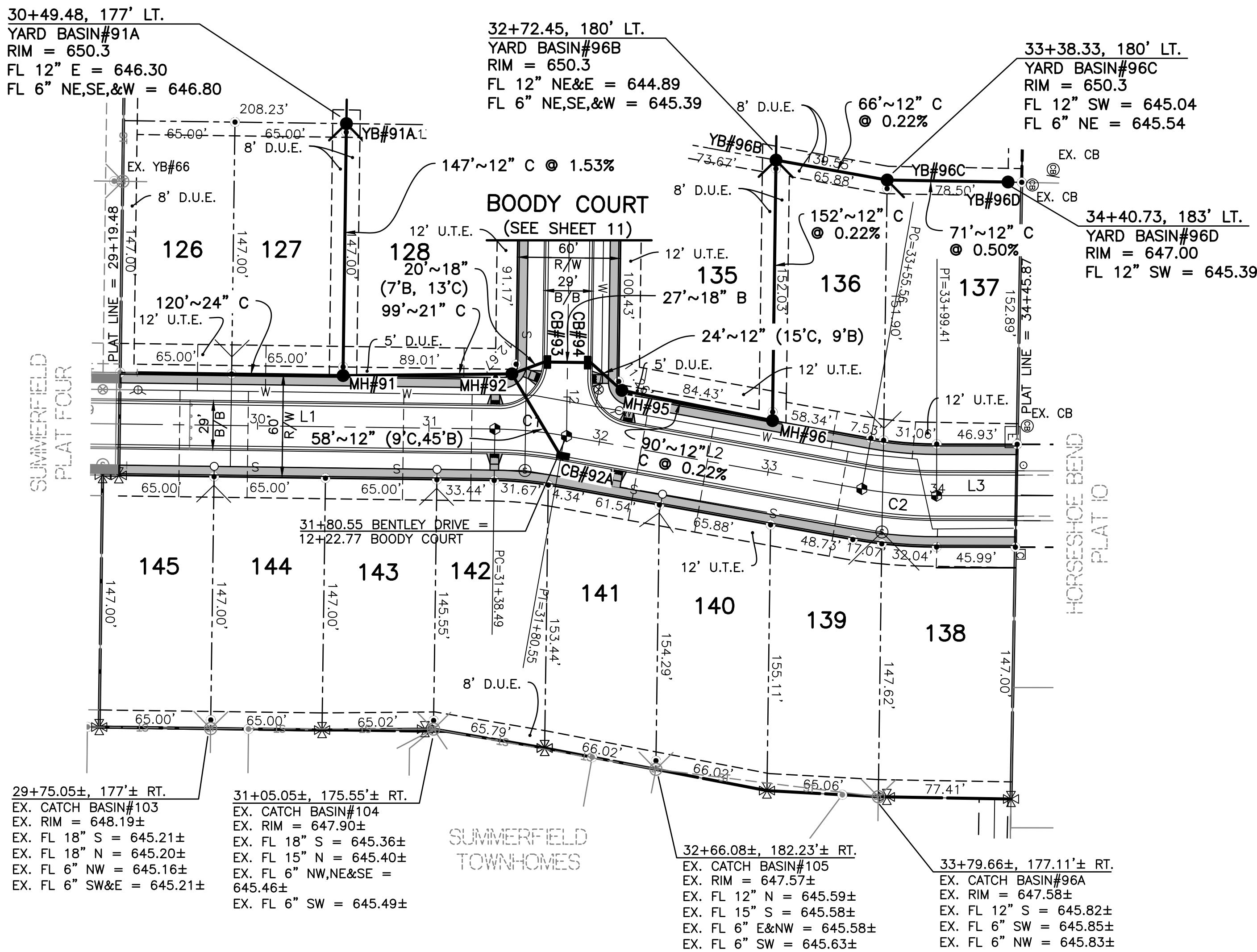


SIGNED 6/20/22
DATE
PROJECT: 10-18-21
PROJECT: 10E08284-5

1
22

STORM SERVICE TAP DATA

- LOT 126**
0+00, (29+33.48±, 141.57'± LT.)
EX. 14'~6" C @ 1.0%
EX. FL 6" = 646.24±
- LOT 127**
0+00, (30+39.58, 167.1' LT.)
14'~6" C @ 1.0%
FL 6" = 646.94
- LOT 128**
0+00, (30+59.38, 167.1' LT.)
14'~6" C @ 1.0%
FL 6" = 646.94
- LOT 135**
0+00, (32+64.29, 168.62' LT.)
14'~6" C @ 1.0%
FL 6" = 645.53
- LOT 136**
0+00, (32+83.83, 171.85' LT.)
14'~6" C @ 1.0%
FL 6" = 645.53
- LOT 137**
0+00, (33+49.71, 171.85' LT.)
14'~6" C @ 1.0%
FL 6" = 645.68
- LOT 138**
0+00, (33+82.55±, 166.46'± RT.)
EX. 14'~6" C @ 1.0%
EX. FL 6" = 645.97±
- LOT 139**
0+00, (33+71.82±, 167.68'± RT.)
EX. 14'~6" C @ 1.0%
EX. FL 6" = 645.99±
- LOT 140**
0+00, (32+73.30±, 170.05'± RT.)
EX. 14'~6" C @ 1.0%
EX. FL 6" = 645.72±
- LOT 141**
0+00, (32+55.63±, 173.13'± RT.)
EX. 14'~6" C @ 1.0%
EX. FL 6" = 645.77±
- LOT 142**
0+00, (31+13.93±, 164.67'± RT.)
EX. 14'~6" C @ 1.0%
EX. FL 6" = 645.60±
- LOT 143**
0+00, (30+96.00±, 164.83'± RT.)
EX. 14'~6" C @ 1.0%
EX. FL 6" = 645.63±
- LOT 144**
0+00, (29+83.62±, 166.47'± RT.)
EX. 14'~6" C @ 1.0%
EX. FL 6" = 645.30±
- LOT 145**
0+00, (29+65.69±, 166.63'± RT.)
EX. 14'~6" C @ 1.0%
EX. FL 6" = 645.35±



FELLER, FINCH & ASSOCIATES, INC.

REVISION	DATE	DESIGN BY:	CHK'D BY:
		GNF	GNF
		DRAWN BY:	
		KSG	
		DATE:	10-18-21
		CHK'D BY:	GNF
		DRAWING:	10-08284P05A1

NORTH

SCALE:
1" = 50' HORIZONTAL
1" = 5' VERTICAL

GRAPHIC SCALE IN FEET

0 25 50 100 150

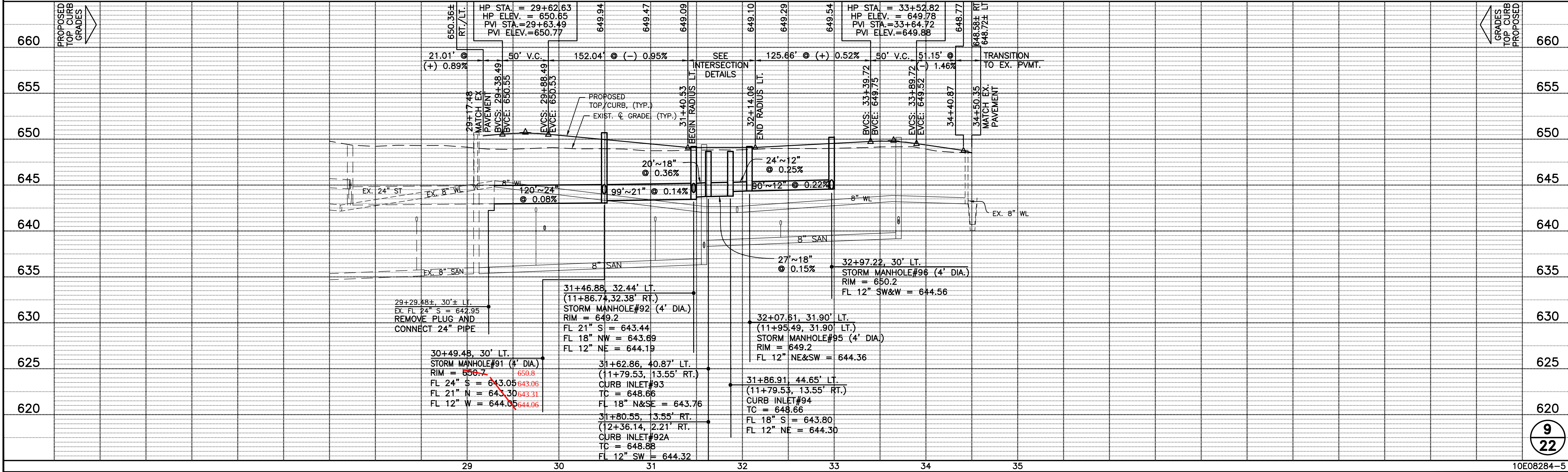
EASEMENT ABBREVIATIONS

D.E. DRAINAGE EASEMENT
D.U.E. DRAINAGE & UTILITY EASEMENT
U.T.E. UTILITY & TOLEDO EDISON EASEMENT

CENTERLINE CURVE DATA					
CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING	CENTRAL ANGLE
C1	250.00'	40.92'	40.87'	N 05°27'43" E	9°22'38"
C2	250.00'	43.85'	43.80'	N 05°07'31" E	10°03'01"
C3	500.00'	20.95'	20.95'	S 00°25'38" E	2°24'03"
C4	500.00'	14.25'	14.25'	N 00°48'40" W	1°37'59"

CENTERLINE LINE DATA		
LINE	BEARING	DISTANCE
L1	S 00°46'24" W	219.01'
L2	S 10°09'01" W	176.15'
L3	S 00°06'01" W	46.46'
L4	S 00°46'24" W	258.21'
L5	S 01°37'39" E	256.46'
L6	S 89°00'19" E	171.63'
L7	N 89°13'36" W	222.77'

- MANHOLE NOTES:**
1. ALL STORM MANHOLES SHALL BE SHALLOW MANHOLES PER THE DETAILS ON SHEET 4.
 2. THE DIAMETER OF THE SHALLOW STORM MANHOLES SHALL BE AS INDICATED IN THE PROFILE BELOW.
 3. THE FLAT SLAB TOP OF THE SHALLOW STORM MANHOLES SHALL BE ORIENTED TO PLACE THE LID AWAY FROM THE STREET CENTERLINE & OUT OF THE PROPOSED SIDEWALK.



STORM SERVICE TAP DATA

LOT 112
0+00, (20+11.78, 159.1' LT.)
14'~6" C @ 1.0%
FL 6" = 645.55

LOT 113
0+00, (20+31.58, 159.1' LT.)
14'~6" C @ 1.0%
FL 6" = 645.55

LOT 114
0+00, (21+43.78, 159.1' LT.)
14'~6" C @ 1.0%
FL 6" = 646.08

LOT 115
0+00, (21+63.58, 159.1' LT.)
14'~6" C @ 1.0%
FL 6" = 646.08

LOT 116
0+00, (22+36.18, 158.74' LT.)
14'~6" C @ 1.0%
FL 6" = 646.34

LOT 118
0+00, (24+59.70, 177.04' RT.)
14'~6" C @ 1.0%
FL 6" = 645.14

LOT 119
0+00, (23+45.57, 172.29' RT.)
14'~6" C @ 1.0%
FL 6" = 645.74

LOT 120
0+00, (23+25.79, 171.47' RT.)
14'~6" C @ 1.0%
FL 6" = 645.74

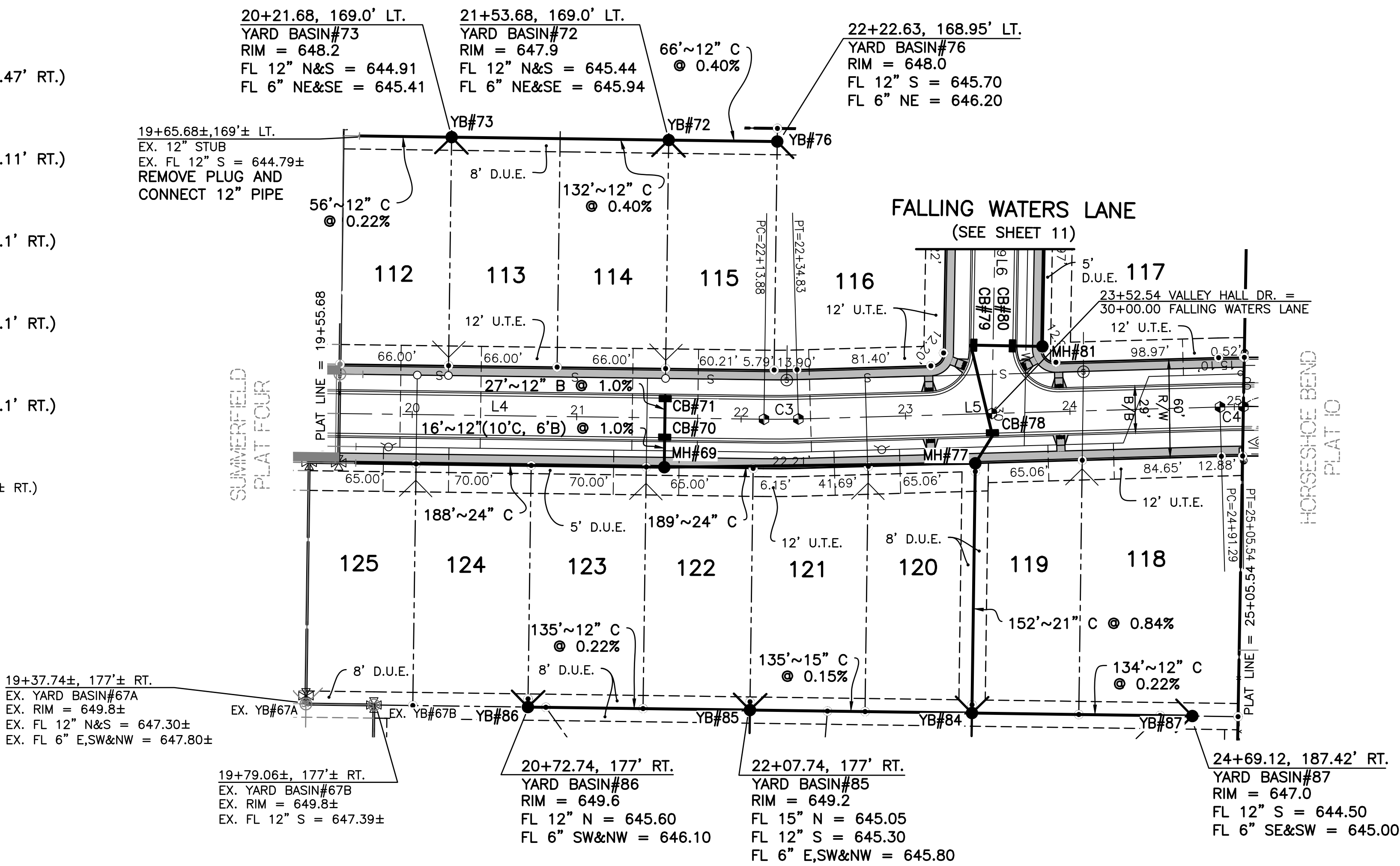
LOT 121
0+00, (22+16.71, 167.11' RT.)
14'~6" C @ 1.0%
FL 6" = 645.94

LOT 122
0+00, (21+97.84, 167.1' RT.)
14'~6" C @ 1.0%
FL 6" = 645.94

LOT 123
0+00, (20+82.63, 167.1' RT.)
14'~6" C @ 1.0%
FL 6" = 646.24

LOT 124
0+00, (20+62.84, 167.1' RT.)
14'~6" C @ 1.0%
FL 6" = 646.24

LOT 125
0+00, (19+47.63±, 167.1' RT.)
EX. 14'~6" C @ 1.0%
EX. FL 6" = 647.93±



NORTH

SCALE:
1" = 50' HORIZONTAL
1" = 5' VERTICAL

02550100150

GRAPHIC SCALE IN FEET

FELLER, FINCH & ASSOCIATES, INC.

REVISION	DATE	DESIGN BY:	DRAWN BY:
		GNF	KSG
		DATE:	10-18-21
		CHK'D BY:	GNF
		DRAWING:	10-08284DP05A1

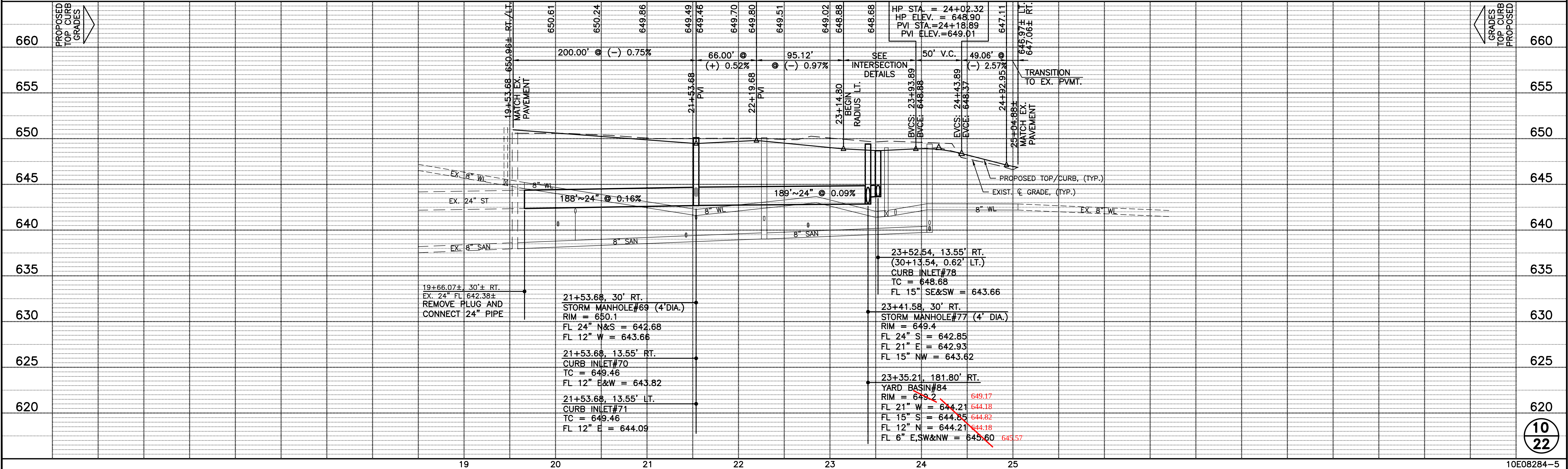
EASEMENT ABBREVIATIONS
D.E.....DRAINAGE EASEMENT
D.U.E.....DRAINAGE & UTILITY EASEMENT
U.T.E.....UTILITY & TOLEDO EDISON EASEMENT

CENTERLINE CURVE DATA					
CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING	CENTRAL ANGLE
C1	250.00'	40.92'	40.87'	N 05°27'43" E	9°22'38"
C2	250.00'	43.85'	43.80'	N 05°07'31" E	10°03'01"
C3	500.00'	20.95'	20.95'	S 00°25'38" E	2°24'03"
C4	500.00'	14.25'	14.25'	N 00°48'40" W	1°37'59"

CENTERLINE LINE DATA		
LINE	BEARING	DISTANCE
L1	S 00°46'24" W	219.01'
L2	S 10°09'01" W	176.15'
L3	S 00°06'01" W	46.46'
L4	S 00°46'24" W	258.21'
L5	S 01°37'39" E	256.46'
L6	S 89°00'19" E	171.63'
L7	N 89°13'36" W	222.77'

- MANHOLE NOTES:
- ALL STORM MANHOLES SHALL BE SHALLOW MANHOLES PER THE DETAILS ON SHEET 4.
 - THE DIAMETER OF THE SHALLOW STORM MANHOLES SHALL BE AS INDICATED IN THE PROFILE BELOW.
 - THE FLAT SLAB TOP OF THE SHALLOW STORM MANHOLES SHALL BE ORIENTED TO PLACE THE LID AWAY FROM THE STREET CENTERLINE & OUT OF THE PROPOSED SIDEWALK.

VALLEY HALL DRIVE



STORM SERVICE TAP DATA

LOT 117
0+00, (23+99.41, 150.64' LT.)
14'~6" C @ 1.0%
FL 6" = 645.14

LOT 129
0+00, (10+28.25, 130.87' RT.)
14'~6" C @ 1.0%
FL 6" = 646.94

LOT 130
0+00, (9+17.67±, 250.87'± RT.)
EX. 14'~6" C @ 1.0%
EX. FL 6" = 646.44±

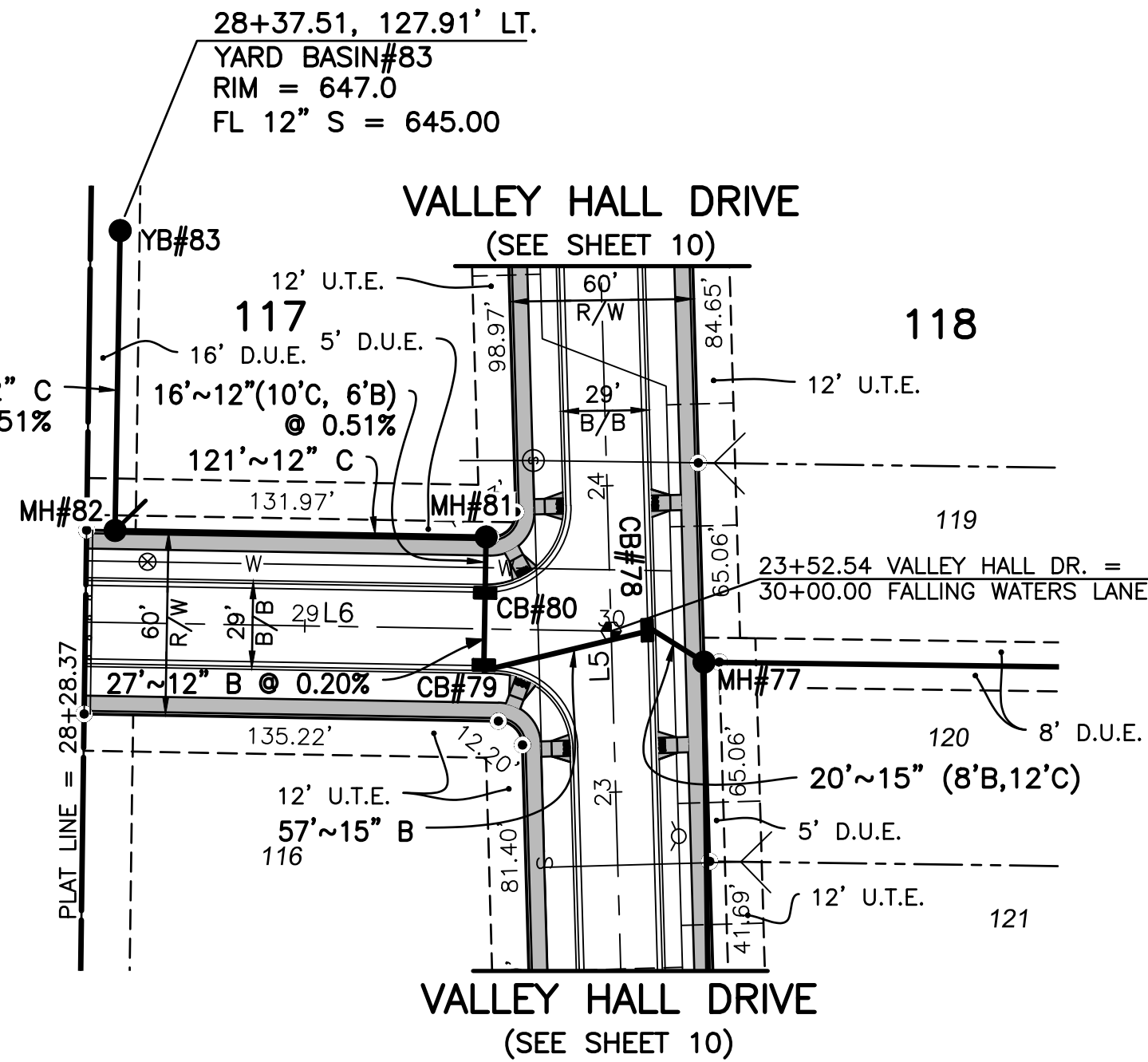
LOT 131
0+00, (22+07.74, 191' RT.)
14'~6" C @ 1.0%
FL 6" = 645.94

LOT 132
0+00, (23+34.63, 195.79' RT.)
14'~6" C @ 1.0%
FL 6" = 645.74

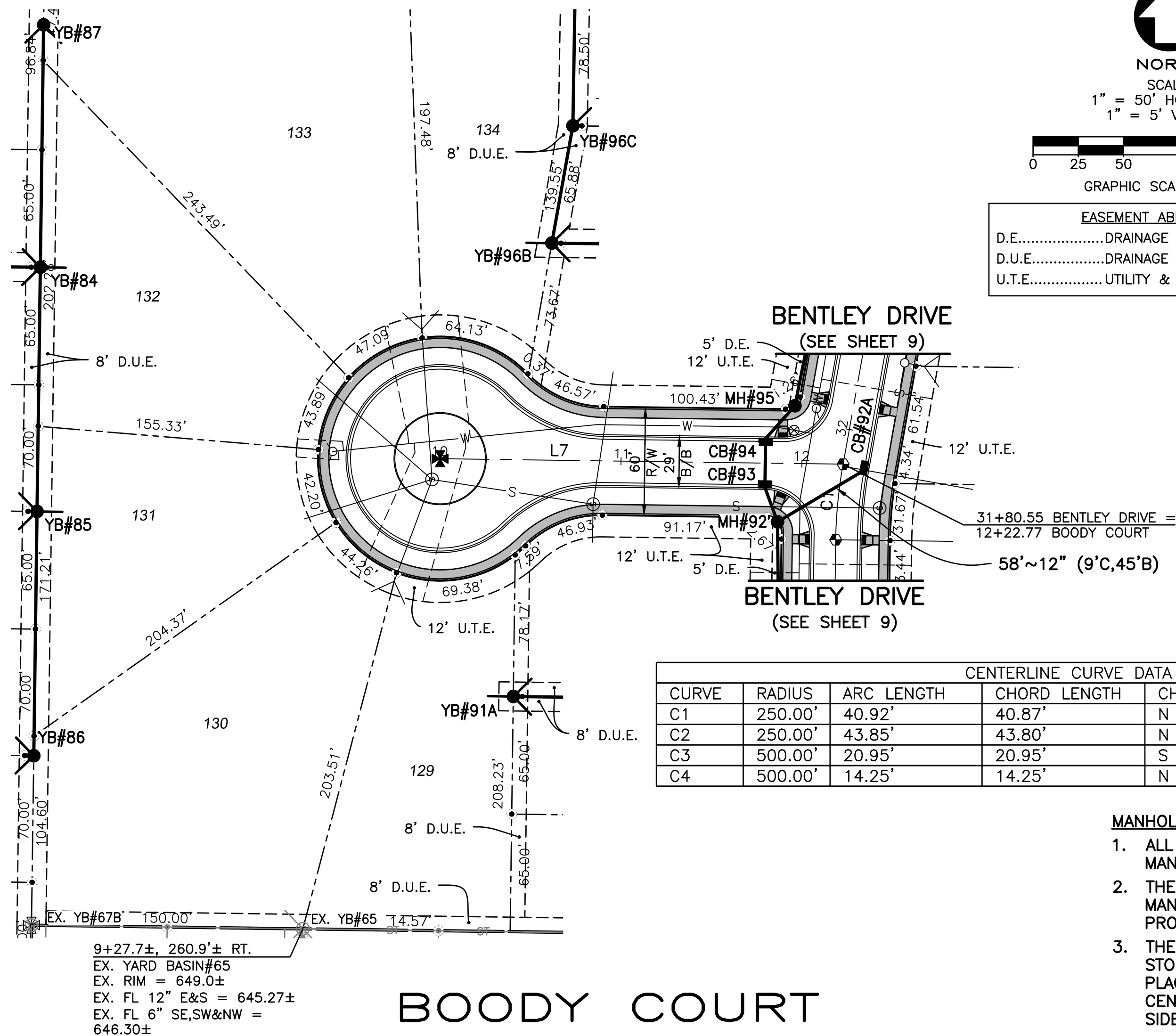
LOT 133
0+00, (24+58.81, 196.89' RT.)
14'~6" C @ 1.0%
FL 6" = 645.14

LOT 134
0+00, (10+46.15, 120' LT.)
14'~6" C @ 1.0%
FL 6" = 645.53

FUTURE
THE FALLS
AT RIVERS
EDGE



CENTERLINE LINE DATA		
LINE	BEARING	DISTANCE
L1	S 00°46'24" W	219.01'
L2	S 10°09'01" W	176.15'
L3	S 00°06'01" W	46.46'
L4	S 00°46'24" W	258.21'
L5	S 01°37'39" E	256.46'
L6	S 89°00'19" E	171.63'
L7	N 89°13'36" W	222.77'

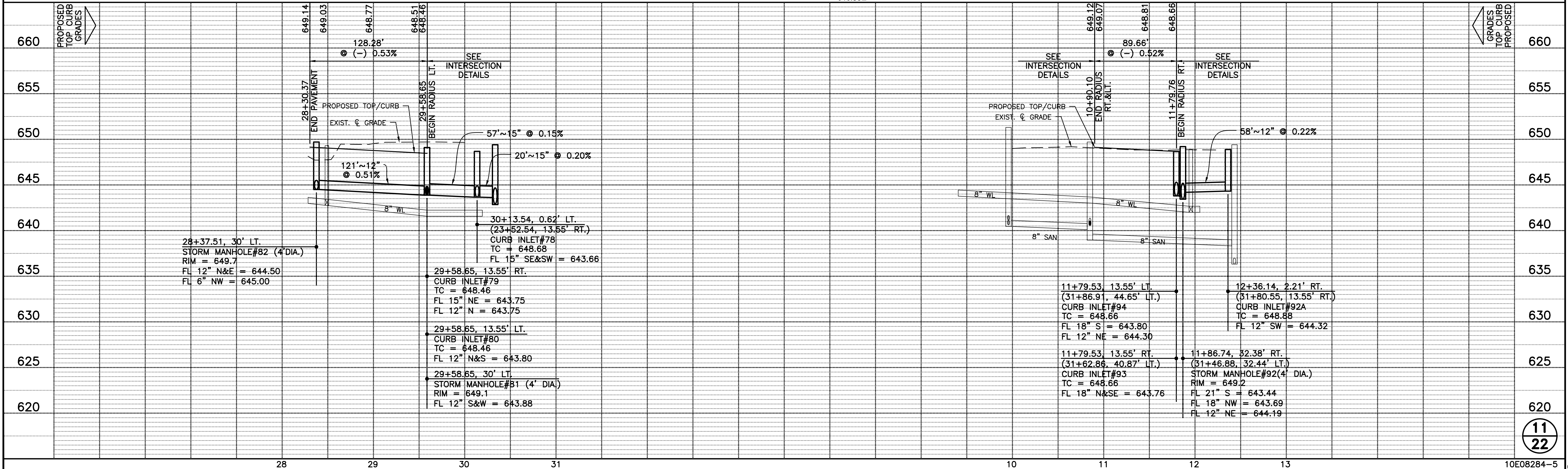


CENTERLINE CURVE DATA					
CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING	CENTRAL ANGLE
C1	250.00'	40.92'	40.87'	N 05°27'43" E	9°22'38"
C2	250.00'	43.85'	43.80'	N 05°07'31" E	10°03'01"
C3	500.00'	20.95'	20.95'	S 00°25'38" E	2°24'03"
C4	500.00'	14.25'	14.25'	N 00°48'40" W	1°37'59"

- MANHOLE NOTES:**
1. ALL STORM MANHOLES SHALL BE SHALLOW MANHOLES PER THE DETAILS ON SHEET 4.
 2. THE DIAMETER OF THE SHALLOW STORM MANHOLES SHALL BE AS INDICATED IN THE PROFILE BELOW.
 3. THE FLAT SLAB TOP OF THE SHALLOW STORM MANHOLES SHALL BE ORIENTED TO PLACE THE LID AWAY FROM THE STREET CENTERLINE & OUT OF THE PROPOSED SIDEWALK.

FALLING WATERS LANE

BOODY COURT



NORTH

HORSESHOE BEND SUBDIVISION

FALLS AT RIVERS EDGE SUBDIVISION

24

19

FORT MEIGS ROAD

FIVE POINT ROAD

SCHALLER DITCH

PLAT FIVE

PLAT FOUR

SUNSET RIDGE

PLAT THREE

SOMERSET LANE

PLAT ONE

PLAT TWO

SUNDERLAND DRIVE

VALLEY HALL DRIVE

SUMMERFIELD BLVD

ASTON ROAD

COPPERSMITH LANE

SUMMERFIELD TOWNHOMES

TITLE SHEET.....	1
GENERAL NOTES & DETAILS.....	2-5
PLAN AND PROFILE.....	6-8

WOOD COUNTY BENCH MARK
MC0668 USGS SURVEY DISC IN CONCRETE MONUMENT
SOUTHWEST CORNER OF THE INTERSECTION OF HULL PRAIRIE
ROAD & FIVE POINT ROAD.

SITE BM #8019
TOP CASTING SANITARY MANHOLE ON SOUTHEAST CORNER OF
SUMMERFIELD BLVD. AND SUNDERLAND DRIVE.

SITE BENCH #90
 ☐ MONUMENT AT THE INTERSECTION OF BENTLEY DRIVE AND
 ASTON ROAD. "X" CUT NORTH RIM OF MON BOX.

KEY MAP
SCALE: 1"=400'

	PROPOSED	EXISTING
SANITARY SEWER		
STORM SEWER		
WATERMAIN		
SANITARY MANHOLE		
STORM MANHOLE		
CATCH BASIN		
YARD BASIN		
WATER VALVE IN MANHOLE		
HYDRANT		
CENTERLINE		
ODOT RM-1.1 MONUMENT		
WOOD COUNTY TYPE A MONUMENT ASSEMBLY		

ITEM	QTY	UNIT	DESCRIPTION
603	439	FT.	6" CONDUIT, TYPE B
603	164	FT.	8" CONDUIT, TYPE B
603	856	FT.	6" CONDUIT, TYPE C
603	966	FT.	8" CONDUIT, TYPE C
604	19.43	VERT. FT.	6" RISER
604	66.42	VERT. FT.	SANITARY MANHOLE INCLUDING CASTING (6)
NON-BID ITEMS			
	13	EACH	6" ON 6" DBL. WYE
	47	EACH	6" PLUG
	4	EACH	6" ON 8" TEE

Alice Godsey
CITY OF PERRYSBURG
DIRECTOR OF PUBLIC UTILITIES
ALICE GODSEY, P.E.

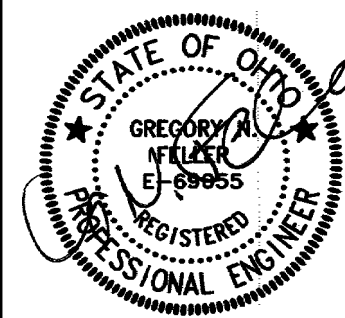
6/9/2012
DATE

SUMMERFIELD PERRYSBURG DEVELOPMENT
3150 REPUBLIC BLVD., SUITE 3
TOLEDO, OHIO 43615
PHONE: 419-841-4831

NAME Shawn Hatched DATE 7/5/22

[illegible]

TITLE:	SANITARY SEWER
PROJECT:	SUMMERFIELD PLAT FIVE

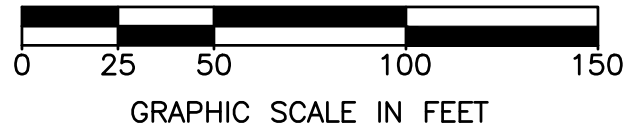


SIGNED <i>G/20/22</i>	
DATE	
DATE: 12-17-21	
PROJECT: 10E08284-5	

TAP DATA AT SEWER MAIN		
LOT NO.	FL @ MAIN	FL @ TAP
126/127	FL 8" = 635.64	FL 6" = 635.72

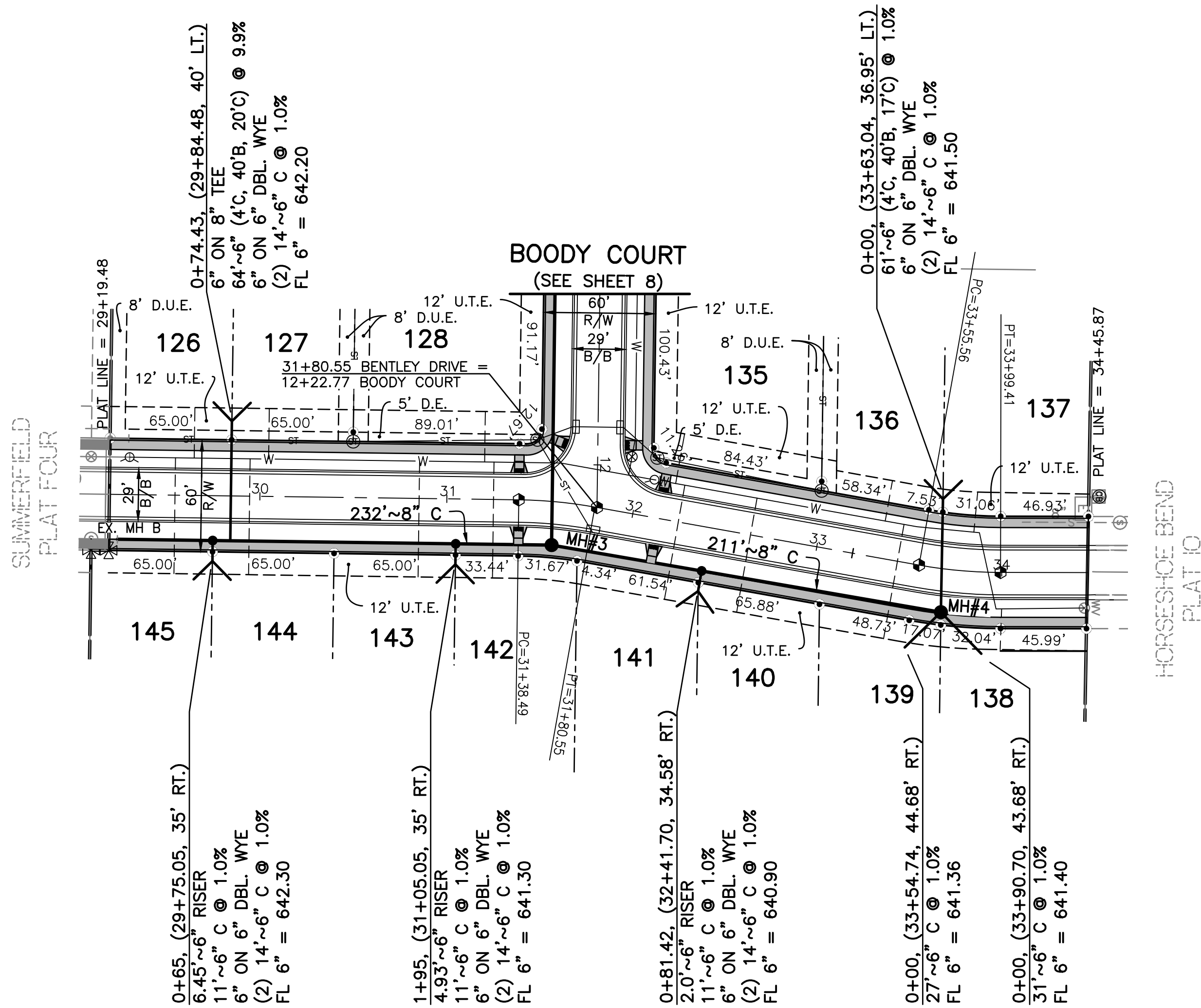


SCALE:
1" = 50' HORIZONTAL
1" = 5' VERTICAL

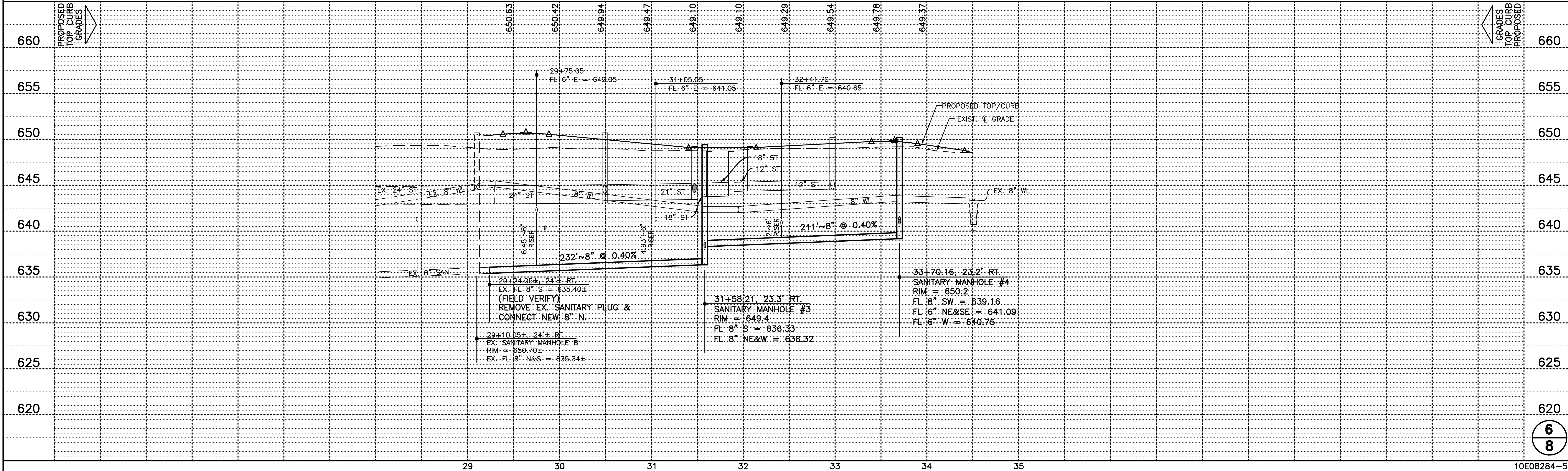


EASEMENT ABBREVIATIONS	
D.E.....	DRAINAGE EASEMENT
D.U.E.....	DRAINAGE & UTILITY EASEMENT
U.T.E.....	UTILITY & TOLEDO EDISON EASEMENT

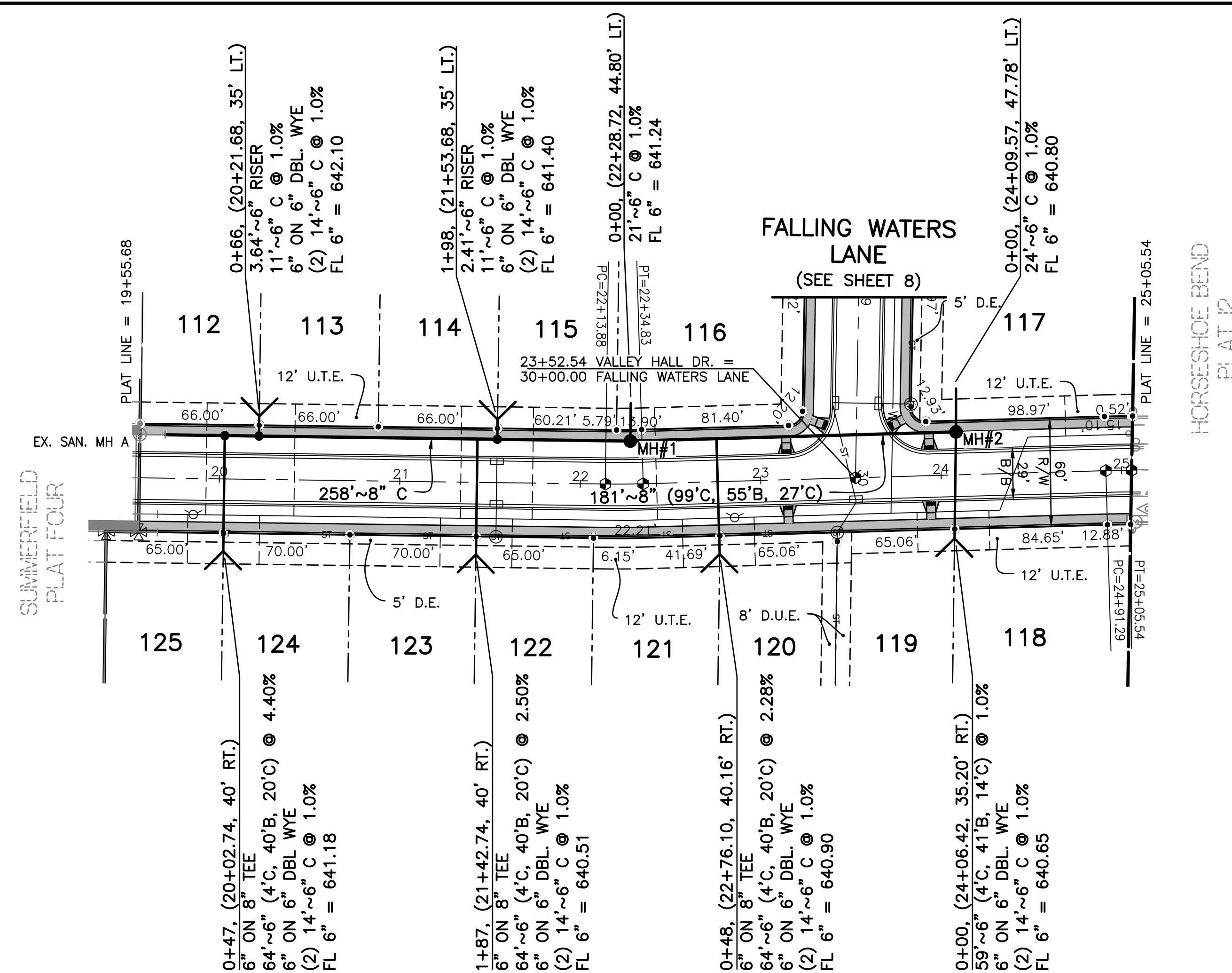
FELLER, FINCH & ASSOCIATES, INC.			
REVISION	DATE	DESIGN BY:	GNF
		DRAWN BY:	KSG
		DATE:	12-17-21
		CHK'D BY:	GNF
		DRAWING:	10-08284SP05A1



- NOTES
1. ORIENT THE STRAIGHT SIDE OF THE ECCENTRIC DOME SECTION OF ALL SANITARY MANHOLES TO BE TOWARD THE STREET CENTERLINE.
 2. THE HEIGHT OF 6" RISER INDICATED INCLUDES ALL FITTINGS REQUIRED FROM THE MAIN UP TO THE 45° BENDS AS SHOWN ON THE DETAILS.



TAP DATA AT SEWER MAIN		
LOT NO.	FL @ MAIN	FL @ TAP
120/121	FL 8" = 639.22	FL 6" = 639.30
122/123	FL 8" = 638.69	FL 6" = 638.77
124/125	FL 8" = 638.14	FL 6" = 638.22



FELLER, FINCH & ASSOCIATES, INC.		
REVISION	DATE	DESIGN BY: GNF
		DRAWN BY: KSG
		DATE: 12-17-2
		CHK'D BY: GNF
		DRAWING: 10-08284SP05A

SCALE:
1" = 50' HORIZONTAL
1" = 5' VERTICAL



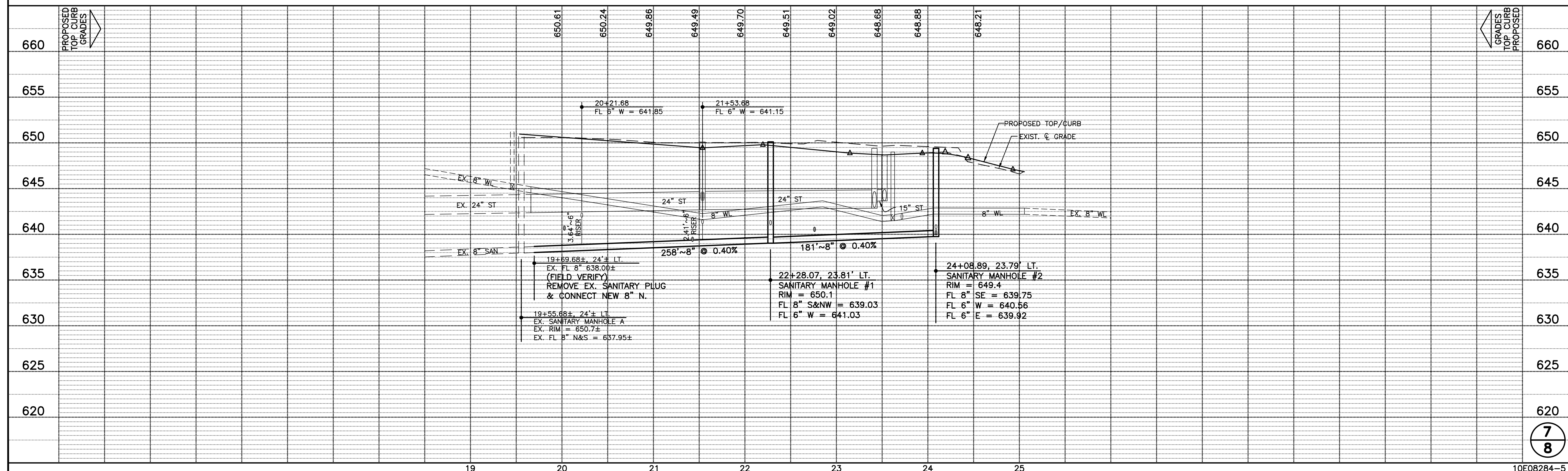
A horizontal graphic scale bar with alternating black and white segments. The bar is divided into four equal segments, each representing 25 feet. The total length is 100 feet. The scale is labeled with 0, 25, 50, 100, and 150 feet.

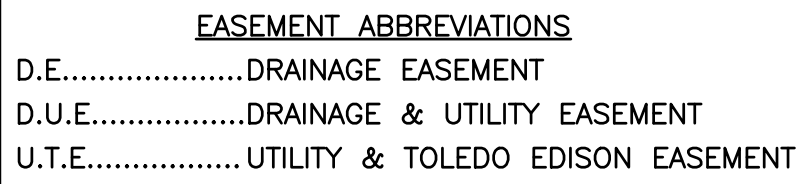
GRAPHIC SCALE IN FEET

EASEMENT ABBREVIATIONS	
D.E.....	DRAINAGE EASEMENT
D.U.E.....	DRAINAGE & UTILITY EASEMENT
U.T.E.....	UTILITY & TOLEDO EDISON EASEMENT

VALLEY HALL DRIVE

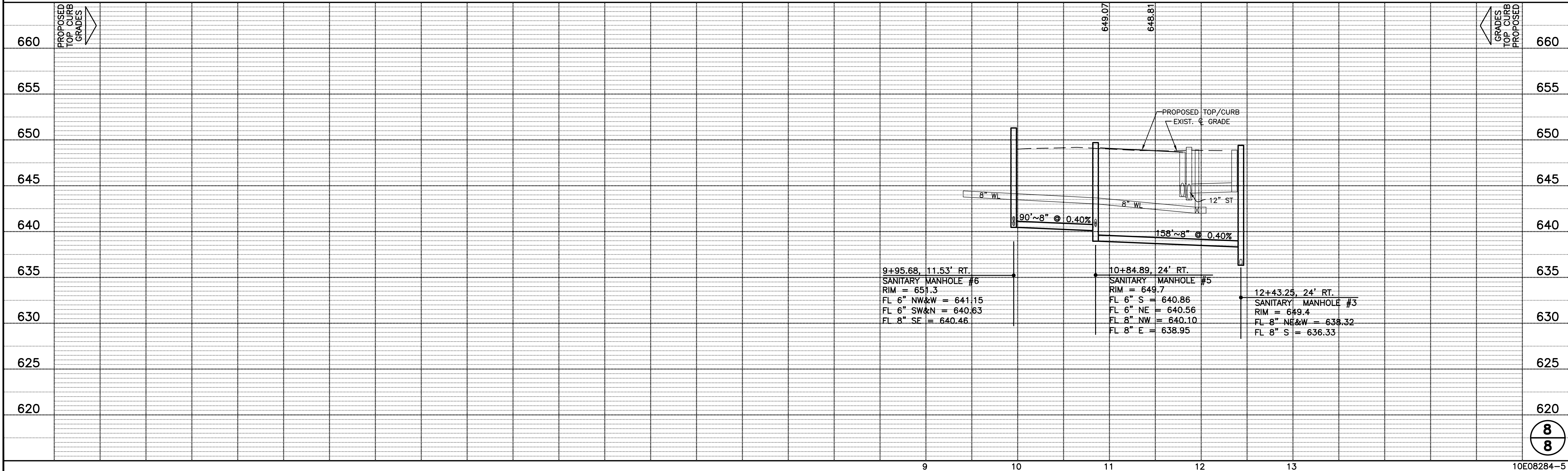
- ### NOTES
1. ORIENT THE STRAIGHT SIDE OF THE ECCENTRIC DOME SECTION OF ALL SANITARY MANHOLES TO BE TOWARD THE STREET CENTERLINE.
 2. THE HEIGHT OF 6" RISER INDICATED INCLUDES ALL FITTINGS REQUIRED FROM THE MAIN UP TO THE 45° BENDS AS SHOWN ON THE DETAILS.





- ## NOTES
1. ORIENT THE STRAIGHT SIDE OF THE ECCENTRIC DOME SECTION OF ALL SANITARY MANHOLES TO BE TOWARD THE STREET CENTERLINE.
 2. THE HEIGHT OF 6" RISER INDICATED INCLUDES ALL FITTINGS REQUIRED FROM THE MAIN UP TO THE 45° BENDS AS SHOWN ON THE DETAILS.

BOODY COURT



WATER MAIN IMPROVEMENTS
FOR
SummerField Plat Five
CITY OF PERRYSBURG, WOOD COUNTY, OHIO

INDEX OF SHEETS

TITLE SHEET	1
GENERAL NOTES & DETAILS	2-4
PLAN AND PROFILE	5-7

BENCH MARK DATA

WOOD COUNTY BENCH MARK
MC0668 USGS SURVEY DISC IN CONCRETE MONUMENT
SOUTHWEST CORNER OF THE INTERSECTION OF HULL PRAIRIE
ROAD & FIVE POINT ROAD.

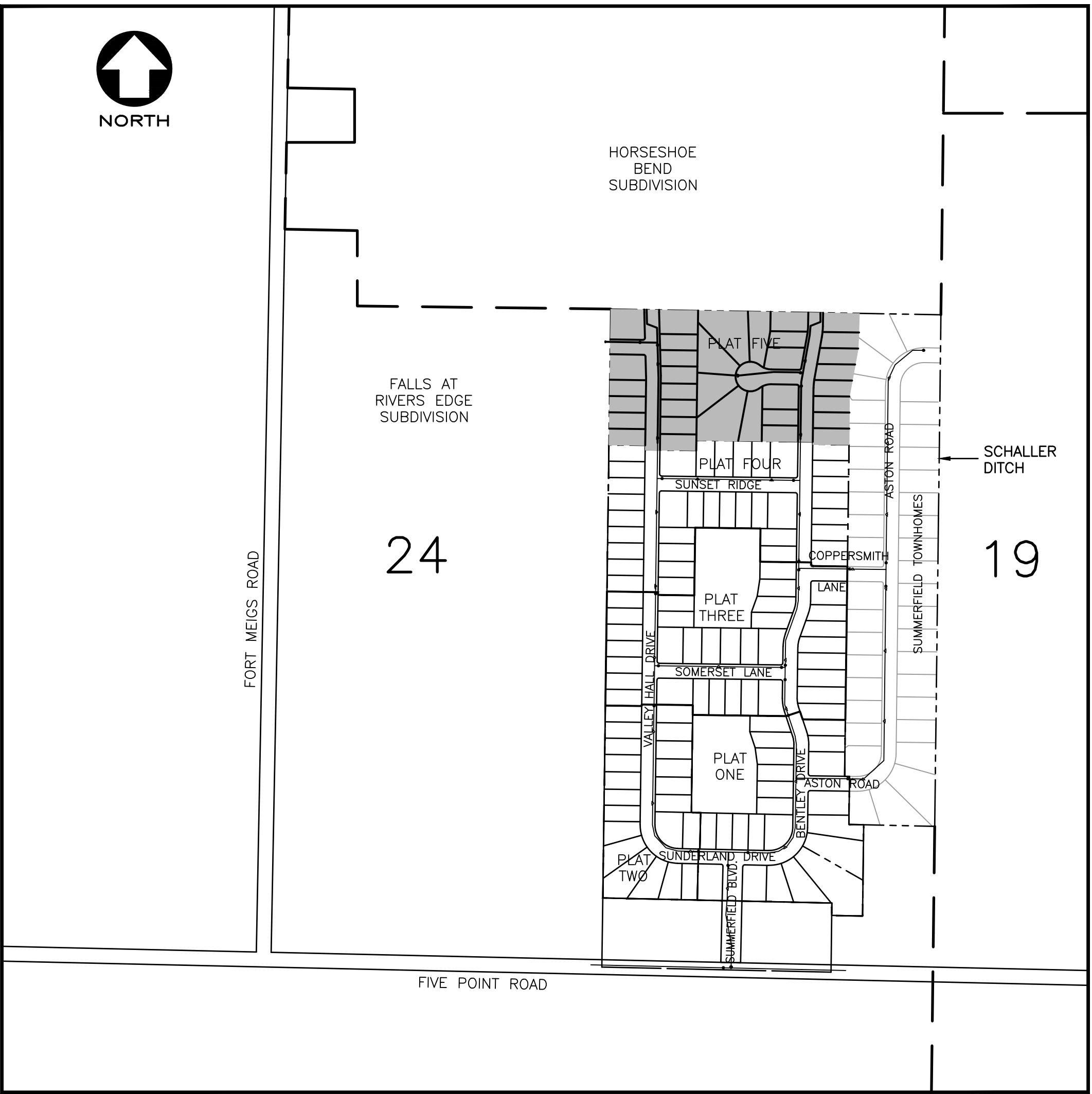
ELEVATION 650.10

SITE BM #8019
TOP CASTING SANITARY MANHOLE ON SOUTHEAST CORNER OF
SUMMERFIELD BLVD. AND SUNDERLAND DRIVE.

ELEVATION 651.94

SITE BENCH #90
MONUMENT AT THE INTERSECTION OF BENTLEY DRIVE AND
ASTON ROAD. "X" CUT NORTH RIM OF MON BOX.

ELEVATION 651.27



KEY MAP
SCALE: 1"=400'

WATER MAIN SUMMARY

QTY	UNIT	DESCRIPTION
1565	FT.	8" WATER MAIN
4	EACH	HYDRANT ASSEMBLY (PARALLEL TO MAIN)
1	EACH	END OF LINE HYDRANT ASSEMBLY
2	EACH	8" LINE VALVE IN VALVE BOX
1	EACH	8" PLUG TAPPED FOR 2" BLOWOFF
4	EACH	3/4" CHLORINATION TAP
2	EACH	8" X 8" X 8" TEE
2	EACH	8"~5-5/8" BEND
2	EACH	8"~11-1/4" BEND
4	EACH	8"~22-1/2" BEND
4	EACH	8"~45" BEND
34	EACH	WATER TAPS (EXCAVATION ONLY)

APPROVALS:

Alice Godsey
CITY OF PERRYSBURG
DIRECTOR OF PUBLIC UTILITIES
ALICE GODSEY, P.E.

6/9/2022
DATE

DEVELOPED BY:

SUMMERFIELD PERRYSBURG DEVELOPMENT
3150 REPUBLIC BLVD., SUITE 3
TOLEDO, OHIO 43615
PHONE: 419-841-4831

Mr. V. V. V.
7/5/22

CONVENTIONAL SIGNS

	PROPOSED	EXISTING
SANITARY SEWER	S	S
STORM SEWER	ST	ST
WATER MAIN	W	W
SANITARY MANHOLE	●	⊙
STORM MANHOLE	●	⊙
CATCH BASIN	■	■
YARD BASIN	●	⊙
WATER VALVE IN MANHOLE	●	⊙
HYDRANT	●	⊙
CENTERLINE	—	—
ODOT RM-1.1 MONUMENT	⊕	⊕
WOOD COUNTY TYPE A MONUMENT ASSEMBLY	⊕	⊕



OHIO UTILITIES
PROTECTION SERVICE
CALL 1-800-362-2764
TWO WORKING DAYS
BEFORE YOU DIG
NON-MEMBERS MUST BE
CALLED DIRECTLY

1683 Woodlands Drive, Maumee, Ohio 43537
Phone: (419) 893-3680
Fax: (419) 893-2982
www.fellerfinch.com

FellerFinch
& ASSOCIATES, INC.
Engineers • Surveyors

WATER MAIN

SUMMERFIELD PLAT FIVE

TITLE:

PROJECT:



SIGNED

DATE

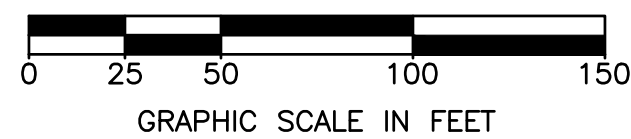
DATE:
12-17-21

PROJECT:
10E08284-5

1
7



SCALE:
1" = 50' HORIZONTAL
1" = 5' VERTICAL

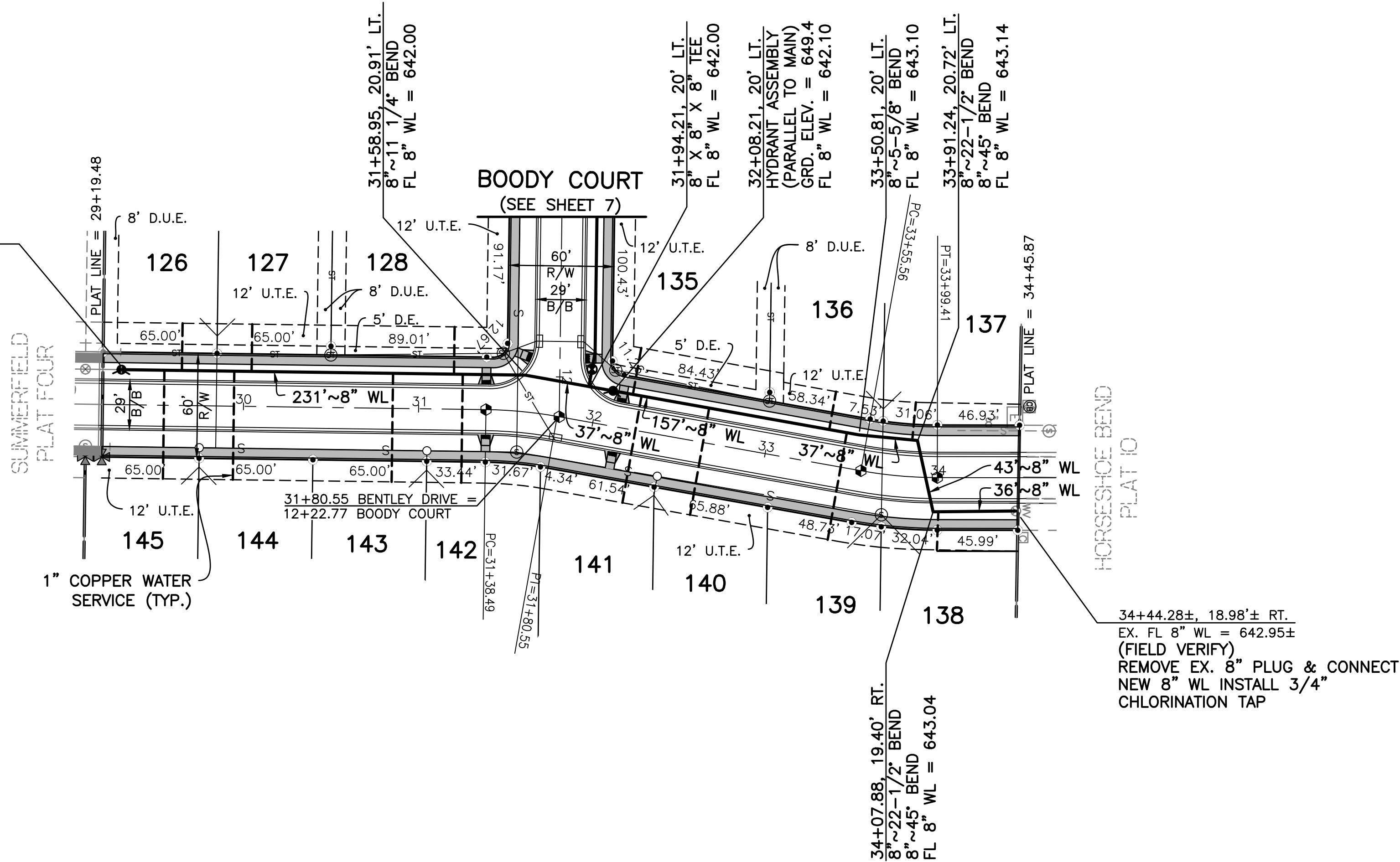


EASEMENT ABBREVIATIONS

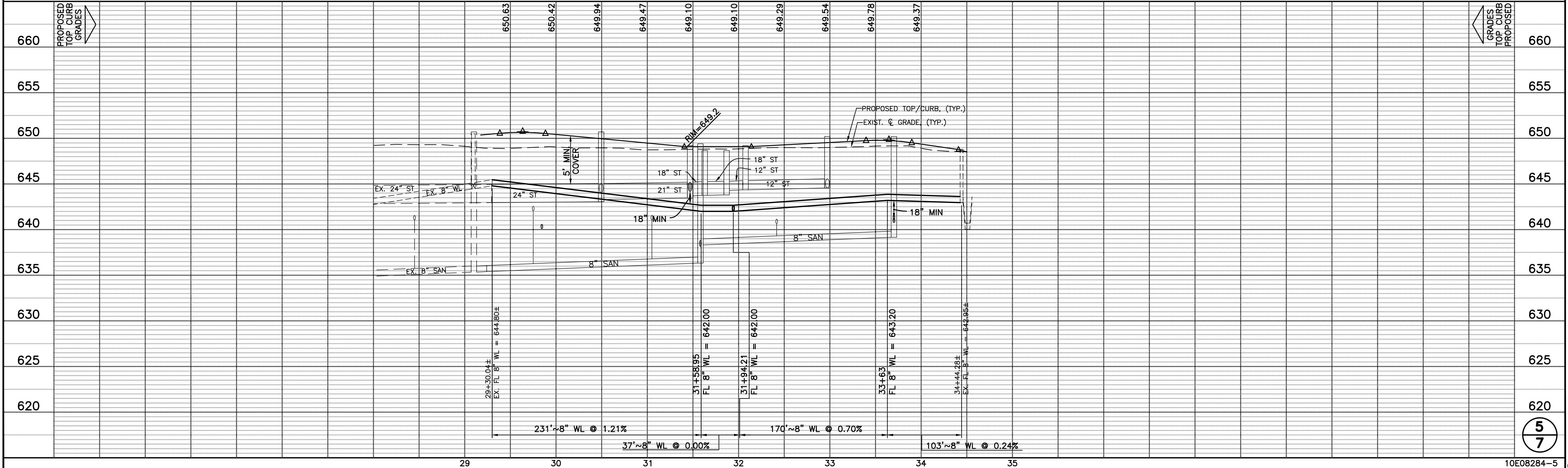
D.E.....DRAINAGE EASEMENT
D.U.E.....DRAINAGE & UTILITY EASEMENT
U.T.E.....UTILITY & TOLEDO EDISON EASEMENT

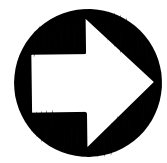
FELLER, FINCH & ASSOCIATES, INC.			
REVISION	DATE	DESIGN BY:	GNF
		DRAWN BY:	KSG
		DATE:	12-17-21
		CHK'D BY:	GNF
		DRAWING:	10-08284WP05A1

29+30.04±, 20'± LT.
EX. FL 8" WL = 644.80±
(FIELD VERIFY)
REMOVE EX. 8" PLUG & CONNECT
NEW 8" WL INSTALL 3/4"
CHLORINATION TAP
INSTALL HYDRANT ASSEMBLY
(PARALLEL TO MAIN)
GRD ELEV = 650.70
FL 8" WL = 644.80±



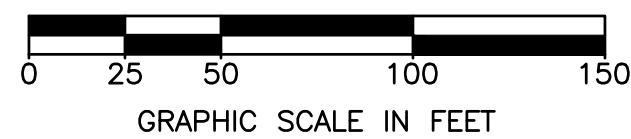
BENTLEY DRIVE





NORTH

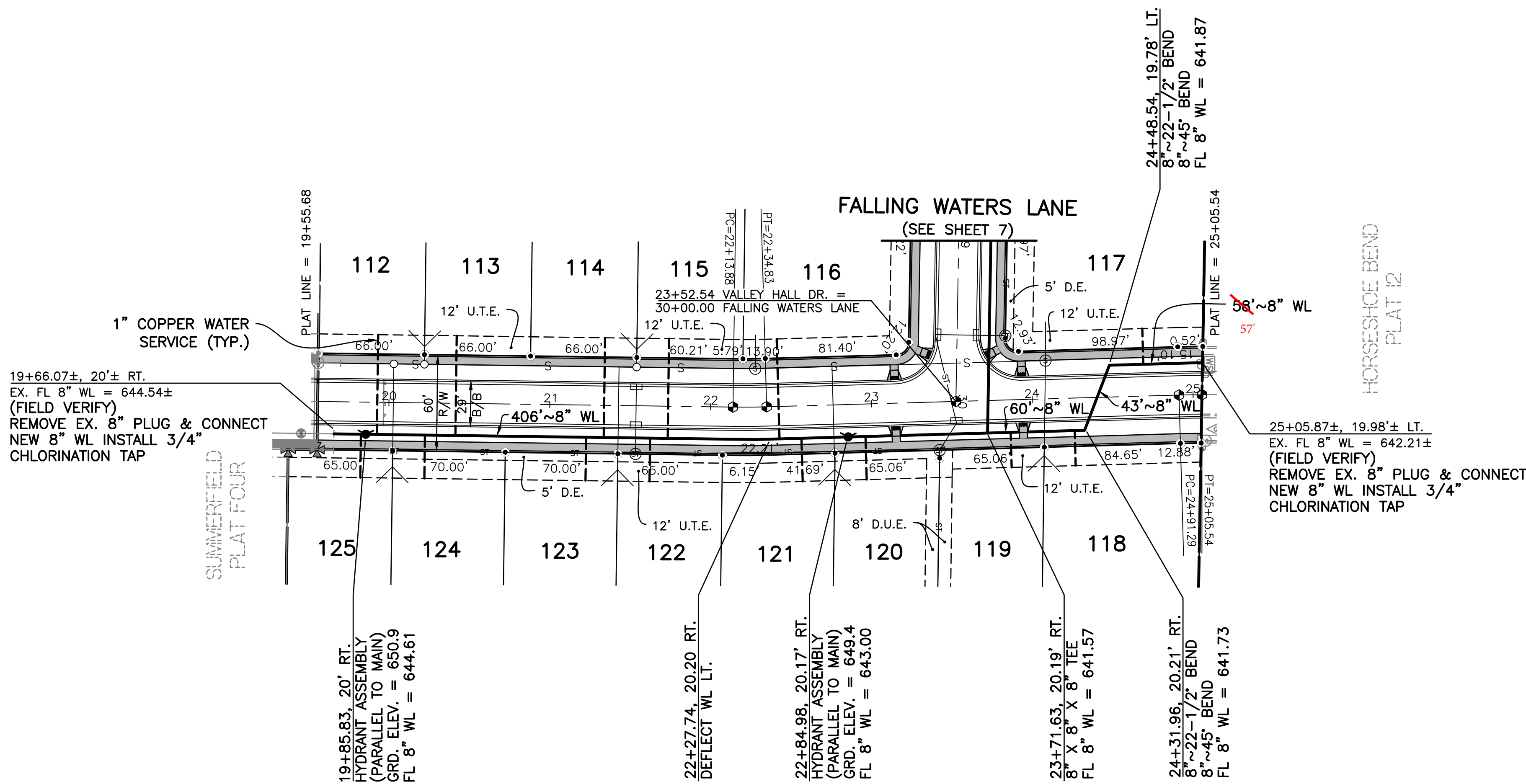
SCALE:
1" = 50' HORIZONTAL
1" = 5' VERTICAL



EASEMENT ABBREVIATIONS

D.E.....DRAINAGE EASEMENT
D.U.E.....DRAINAGE & UTILITY EASEMENT
U.T.E.....UTILITY & TOLEDO EDISON EASEMENT

FELLER, FINCH & ASSOCIATES, INC.			
REVISION	DATE	DESIGN BY:	GNF
		DRAWN BY:	KSG
		DATE:	12-17-21
		CHK'D BY:	GNF
		DRAWING:	10-08284WP05A1



VALLEY HALL DRIVE

