

**LEGEND**

<b>PROPOSED</b>	CONTOUR LINE	EXISTING	CONTOUR LINE
	EDGE OF TOP OF DITCH		CURB
	BOTTOM OF DITCH		EDGE OF TOP OF DITCH
	CONCRETE		GRAVEL
	GRAVEL		EDGE OF ASPHALT
	CURB		FENCE
	ASPHALT		STREET LIGHT
	EDGE OF ASPHALT		WATER LINE
	DETECTABLE WARNING SURFACE		WATER VALVE
	LANDSCAPING		WATER METER
	STORMWATER LINE		SANITARY LINE
	STORMWATER MANHOLE		SANITARY MANHOLE
	DITCH INLET		GAS LINE
	CURB INLET		STORMWATER LINE
	RIPRAP		STORMWATER MANHOLE
	SANITARY LINE		CURB INLET
	SANITARY PRESSURE LINE		CATCH BASIN
	SANITARY MANHOLE		DITCH INLET
	SANITARY/STORMWATER CLEANOUT		TELEPHONE RISER
	WATER LINE		OVERHEAD WIRES
	FIRE HYDRANT		UNDERGROUND POWER
	WATER VALVE		UTILITY POLE
			EXISTING BUILDING
			COMMUNICATION LINE
			MAILBOX
			SIGN

\* LEGEND ITEMS ARE SHOWN AT SCALE 1"=20'

# CLEVELAND STREET CAPITAL IMPROVEMENT PROJECT COTTAGE GROVE, OREGON

**DESIGN TEAM**

**OWNER/APPLICANT**

CITY OF COTTAGE GROVE  
CONTACT: FAYE STEWART, PUBLIC WORKS  
& DEVELOPMENT DIRECTOR  
400 E. MAIN STREET  
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**CIVIL ENGINEER**

BRANCH ENGINEERING, INC.  
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**SURVEYOR**

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**UTILITY REPRESENTATIVES**

**ELECTRICAL**

PACIFIC POWER COTTAGE GROVE DISTRICT  
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EMAIL: elke.vath@pacifiCorp.com

EMERALD PEOPLE'S UTILITY DISTRICT  
CONTACT: BARRY HUMPHRIES  
33733 SEAVEY LOOP ROAD  
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PHONE: (541) 744-1583  
EMAIL: operations@epud.org

**WATER, SANITARY, STORM SEWER  
& CITY FIBER OPTICS**

CITY OF COTTAGE GROVE  
CONTACT: GREG GRISWELL, PUBLIC WORKS SUPERVISOR  
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COTTAGE GROVE, OR 97424  
PHONE: (541) 942-3024  
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**COMMUNICATION SERVICES**

CENTURY LINK/LUMEN  
CONTACT: TREVOR GILBERT  
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EMAIL: trevor.w.gilbert@lumen.com

CHARTER COMMUNICATIONS  
CONTACTS: MARK STANFIELD or SHANE QUIMBY  
33733 SEAVEY LOOP ROAD  
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PHONE: MARK (541) 201-0097  
SHANE (541) 228-7521  
EMAILS: mark.stanfield@charter.org  
shane.quimby@charter.org

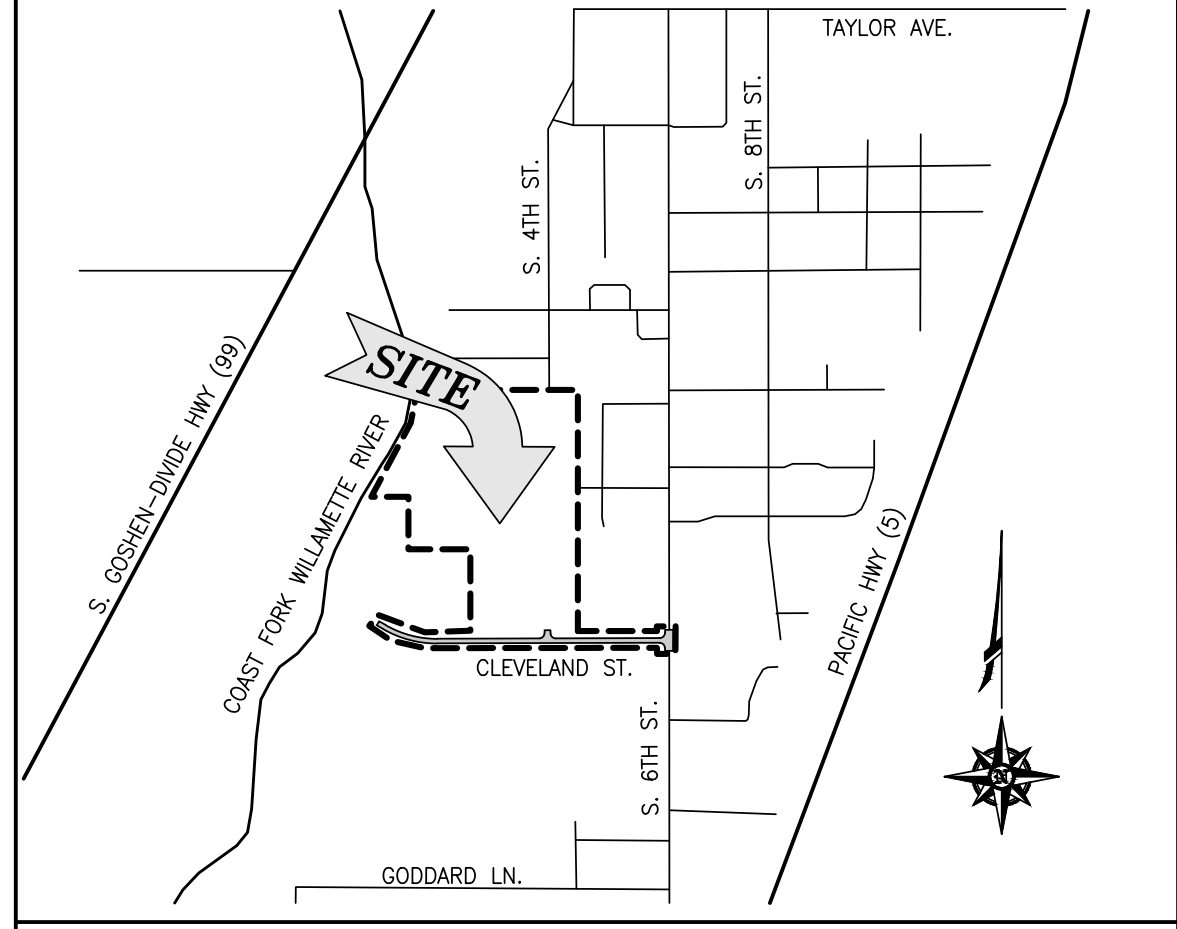
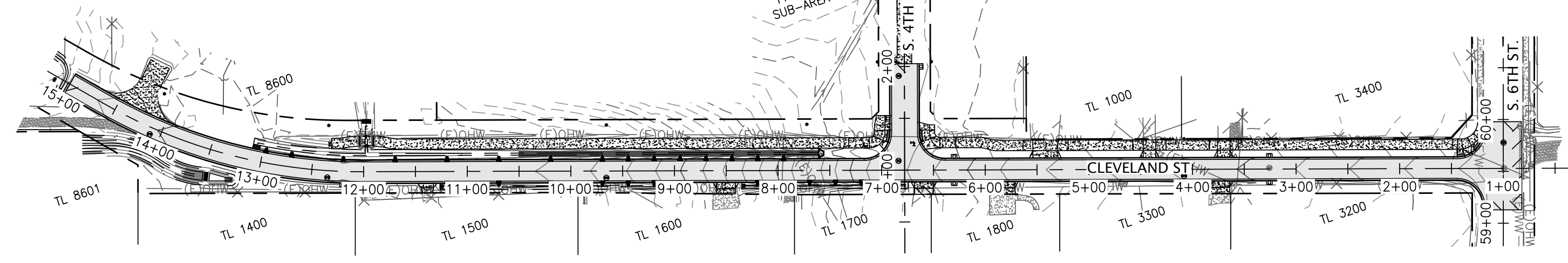
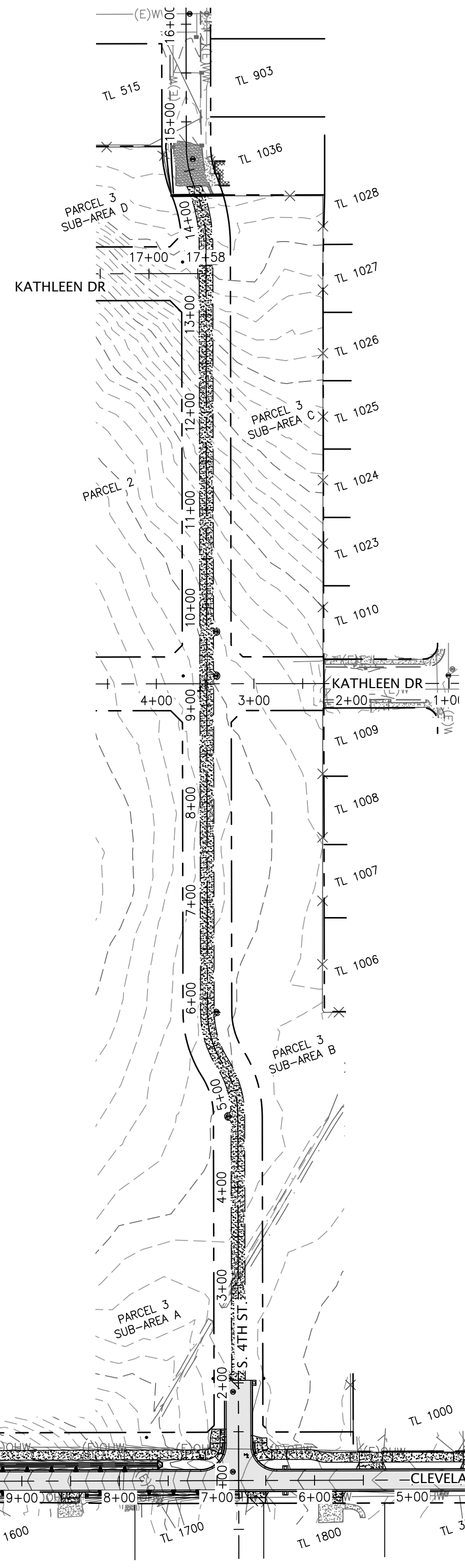
**FIRE**

SOUTH LANE COUNTY FIRE & RESCUE  
CONTACT: DANNY L. SOLESBEE  
233 HARRISON AVE  
COTTAGE GROVE, OR 97424  
PHONE: (541) 942-4493  
EMAIL: dsolesbee@southlanefire.org

**GAS**

NORTHWEST NATURAL GAS  
CONTACT: MONTE BROWN  
780 GOODPASTURE ISLAND RD  
EUGENE, OR 97401  
PHONE: (541) 954-1255  
E-MAIL: monte.brown@nwnatural.com

DRAWING INDEX		DRAWING INDEX	
SHEET	TITLE	SHEET	TITLE
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C0.02	GENERAL CONSTRUCTION NOTES	EC1.0	EROSION & SEDIMENT CONTROL PLAN EXISTING CONDITIONS AND DEMO PHASE TOTAL PROJECT AREA
C0.03	STREET SECTION VIEWS	EC1.11	EROSION & SEDIMENT CONTROL PLAN EXISTING CONDITIONS AND DEMO PHASE SHEET 1
C1.11	EXISTING CONDITIONS AND DEMO. PLAN CLEVELAND ST. STA 0+80 TO 5+50 AND 6TH ST. STA 59+00 TO 69+50	EC1.12	EROSION & SEDIMENT CONTROL PLAN EXISTING CONDITIONS AND DEMO PHASE SHEET 2
C1.12	EXISTING CONDITIONS AND DEMO. PLAN CLEVELAND ST. STA 5+50 TO 11+00	EC1.13	EROSION & SEDIMENT CONTROL PLAN EXISTING CONDITIONS AND DEMO PHASE SHEET 3
C1.13	EXISTING CONDITIONS AND DEMO. PLAN CLEVELAND ST. STA 11+00 TO 15+00	EC2.0	EROSION & SEDIMENT CONTROL PLAN STREET, UTILITIES & STABILIZATION PHASE TOTAL PROJECT AREA
C1.21	EXISTING CONDITIONS AND DEMO. N. 4TH ST. STA 14+00 TO 16+50 AND KATHLEEN DR. STA 0+75 TO 2+50	EC2.11	EROSION & SEDIMENT CONTROL PLAN STREET, UTILITIES & STABILIZATION PHASE SHEET 1
C2.11	GRADING PLAN AND PROFILE CLEVELAND ST. STA 0+80 TO 5+50 AND 6TH ST.	EC2.12	EROSION & SEDIMENT CONTROL PLAN STREET, UTILITIES & STABILIZATION PHASE SHEET 2
C2.12	GRADING PLAN AND PROFILE CLEVELAND ST. STA 5+50 TO 11+00	EC2.13	EROSION & SEDIMENT CONTROL PLAN STREET, UTILITIES & STABILIZATION PHASE SHEET 3
C2.13	GRADING PLAN AND PROFILE CLEVELAND ST. STA 11+00 TO 15+00	EC3.0	EROSION & SEDIMENT CONTROL PLAN DETAILS SHEET 1
C2.14	ADA RAMPS GRADING PLAN	EC3.1	EROSION & SEDIMENT CONTROL PLAN DETAILS SHEET 2
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C3.21	STORMWATER PLAN AND PROFILE S. 4TH ST. STA 0+75 TO 2+00		
C3.91	TREATMENT POND AND CONVEYANCE CHANNEL DETAIL SHEET 1		
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C4.14	SANITARY SEWER FORCE MAIN PLAN AND PROFILE CLEVELAND ST. STA 0+80 TO 5+50		
C4.15	SANITARY SEWER FORCE MAIN PLAN AND PROFILE CLEVELAND ST. STA 5+50 TO 11+00		
C4.16	SANITARY SEWER FORCE MAIN PLAN AND PROFILE CLEVELAND ST. STA 11+00 TO 15+00		
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C5.11	WATER MAIN PLAN AND PROFILE CLEVELAND ST. STA 0+80 TO 5+50 AND 6TH ST.		
C5.12	WATER MAIN PLAN AND PROFILE CLEVELAND ST. STA 5+50 TO 11+00		
C5.13	WATER MAIN PLAN AND PROFILE CLEVELAND ST. STA 11+00 TO 15+00		
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C6.03	DETAIL SHEET 3		
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C6.05	DETAIL SHEET 5		
C6.06	DETAIL SHEET 6		



VICINITY MAP NOT TO SCALE



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NATHAN PATTERSON  
EXPIRES: DECEMBER 31, 2026

**CITY OF COTTAGE GROVE ENGINEERING**  
400 Main Street Cottage Grove, OR 97424

**REVISIONS:**

No.	DESCRIPTION	DATE
1	ADDENDUM 1	12/18
2	ADDENDUM 2	1/10

**CLEVELAND STREET  
CAPITAL IMPROVEMENT PROJECT**

COVER SHEET

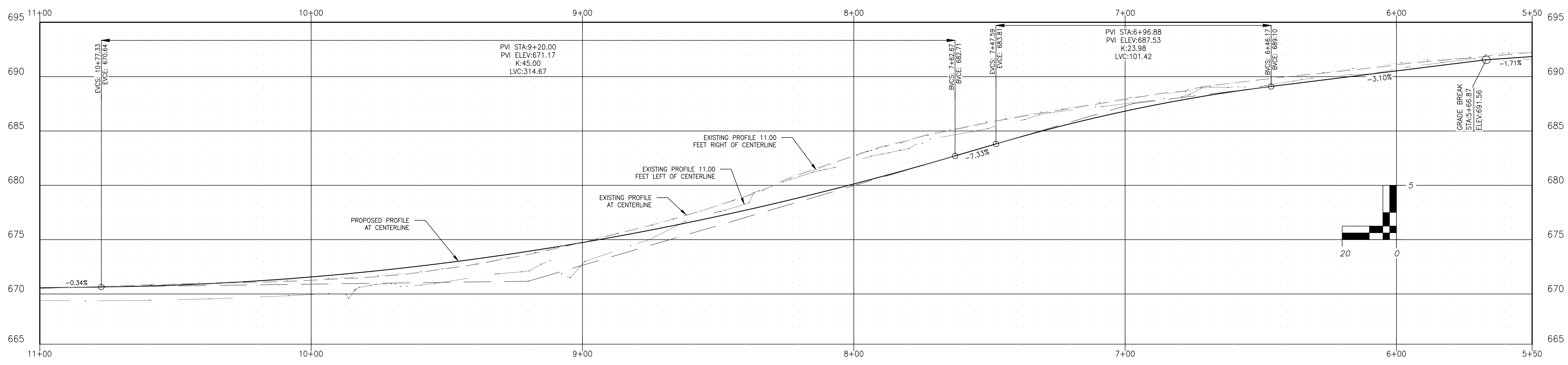
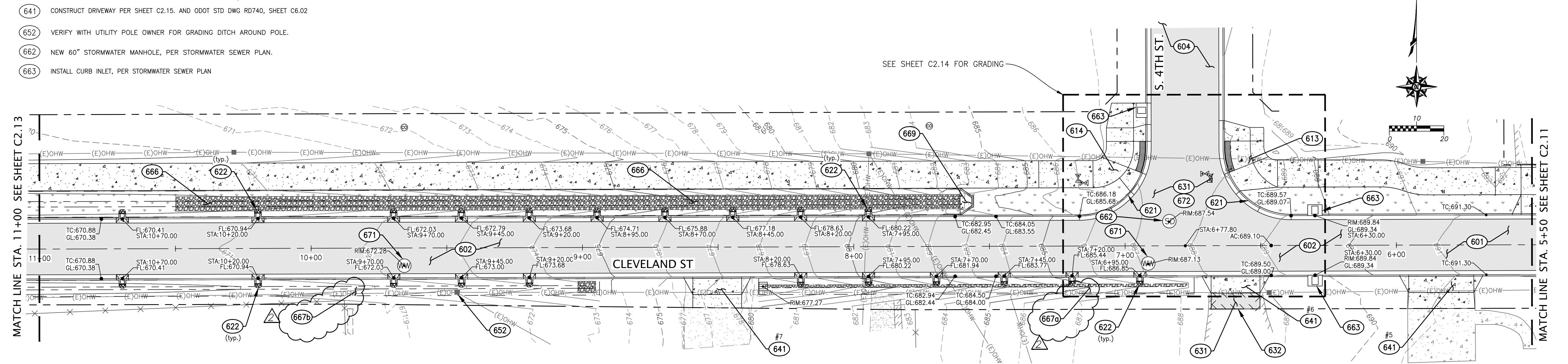
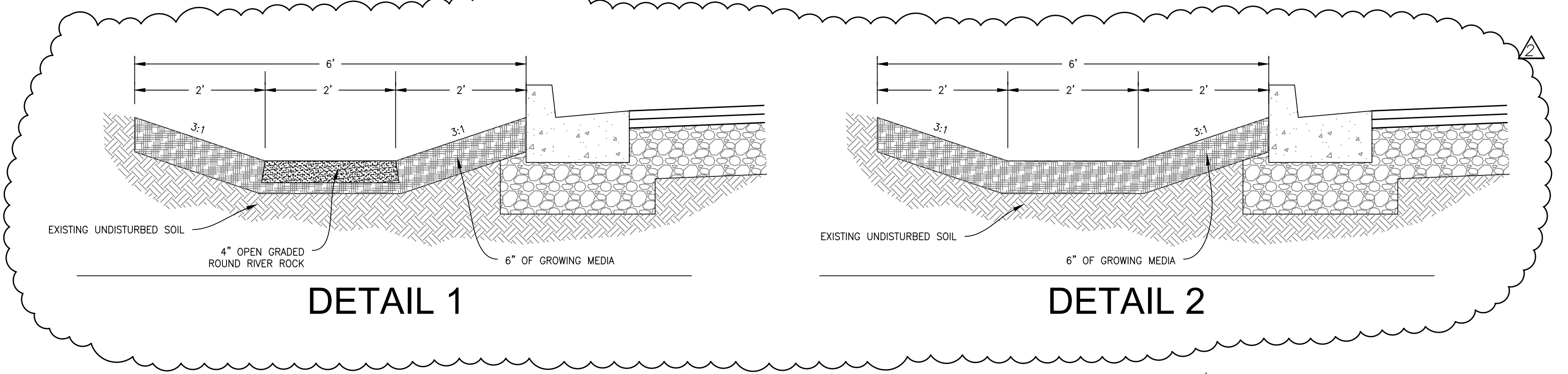
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DRAWN BY: JAD/JRW CHECKED BY: AWMS DATE: 12/12/2024 JOB No. 23-001C

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**CONSTRUCTION NOTES:**

- 601 CONSTRUCT PAVEMENT SECTION, CURB & GUTTER AND SIDEWALK PER CROSS SECTION 1, SHEET C0.03.
- 602 CONSTRUCT PAVEMENT SECTION, CURB & GUTTER AND SIDEWALK PER CROSS SECTION 2, SHEET C0.03.
- 604 CONSTRUCT PAVEMENT SECTION, CURB & GUTTER AND SIDEWALK PER CROSS SECTION 4, SHEET C0.03.
- 613 INSTALL CURB AND RAMP, PER DETAIL 2 SHEET C2.14
- 614 INSTALL CURB RAMP, PER DETAIL 3, SHEET C2.14
- 621 CONSTRUCT 6" TALL 24" CURB AND GUTTER OVER 12" OF AGGREGATE PER ODOT STANDARD DRAWING RD700, SHEET C6.02
- 622 INSTALL CURB CUT, PER DETAIL 1, SHEET C6.03
- 631 PAVEMENT BASE COURSE SHALL BE ASPHALT CONCRETE, 2" LIFT OF LEVEL 2, 1/2" DENSE HMAC, WEARING COURSE SHALL BE ASPHALT CONCRETE 2" LIFT OF LEVEL 2, 1/2" DENSE HMAC. FOLLOW 2024 OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION, COMPACT ALL COURSES TO A MINIMUM OF 91% RICE GRAVITY OR GREATER. OFFSET JOINT OF EACH COURSE OF ASPHALT CONCRETE BY 2 FEET SO JOINTS DO NOT MATCH PER 2024 OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION.
- 632 SEAL PAVEMENT JOINT. TACK COAT EXISTING PAVEMENT EDGES, THE MATCHLINE TO EXISTING PAVING SHALL COMPLY WITH ODOT STD DWG RD302, SHEET C6.01
- 641 CONSTRUCT DRIVEWAY PER SHEET C2.15. AND ODOT STD DWG RD740, SHEET C6.02
- 652 VERIFY WITH UTILITY POLE OWNER FOR GRADING DITCH AROUND POLE.
- 662 NEW 60" STORMWATER MANHOLE, PER STORMWATER SEWER PLAN.
- 663 INSTALL CURB INLET, PER STORMWATER SEWER PLAN
- 666 FOR ABOVE GROUND STORMWATER FACILITIES SEE STORMWATER DETAILS, SHEET C3.92
- 667a INSTALL 6-FOOT WIDE DITCH WITH 3:1 SIDE SLOPES WITH A 2-FOOT WIDE BOTTOM ALONG ROAD IMPROVEMENTS, PER DETAIL 1 THIS SHEET.
- 667b INSTALL 6-FOOT WIDE DITCH WITH 3:1 SIDE SLOPES WITH A 2-FOOT WIDE BOTTOM ALONG ROAD IMPROVEMENTS, PER DETAIL 2 THIS SHEET.
- 669 INSTALL PRECAST 30" HEADWALL OVER 18" OF 3/4"-0 COMPACTED TO 95% MODIFIED PROTECTOR, PER STORMWATER SEWER PLAN.
- 671 NEW 48" SANITARY MANHOLE, PER SANITARY SEWER PLAN
- 672 BASE ROCK SHALL BE 12" MIN. 1"-0" CRUSHED ROCK AGGREGATE. AGGREGATE SHALL BE COMPACTED TO 95% RELATIVE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180. FOLLOW 2024 OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION.



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EXPIRES: DECEMBER 31, 2026

**CITY OF COTTAGE GROVE ENGINEERING**  
400 Main Street Cottage Grove, OR 97424

**REVISIONS:**

No.	DESCRIPTION	DATE
1	ADDENDUM 1	12/18
2	ADDENDUM 2	1/10

**CLEVELAND STREET  
CAPITAL IMPROVEMENT PROJECT**

GRADING PLAN AND PROFILE  
CLEVELAND ST. STA 5+50 TO 11+00

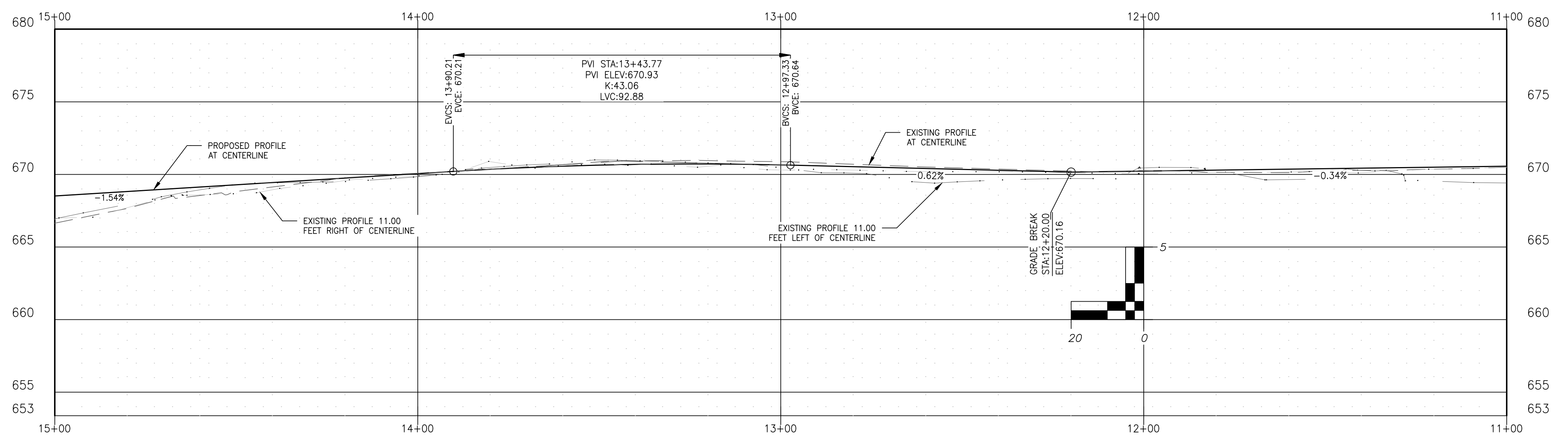
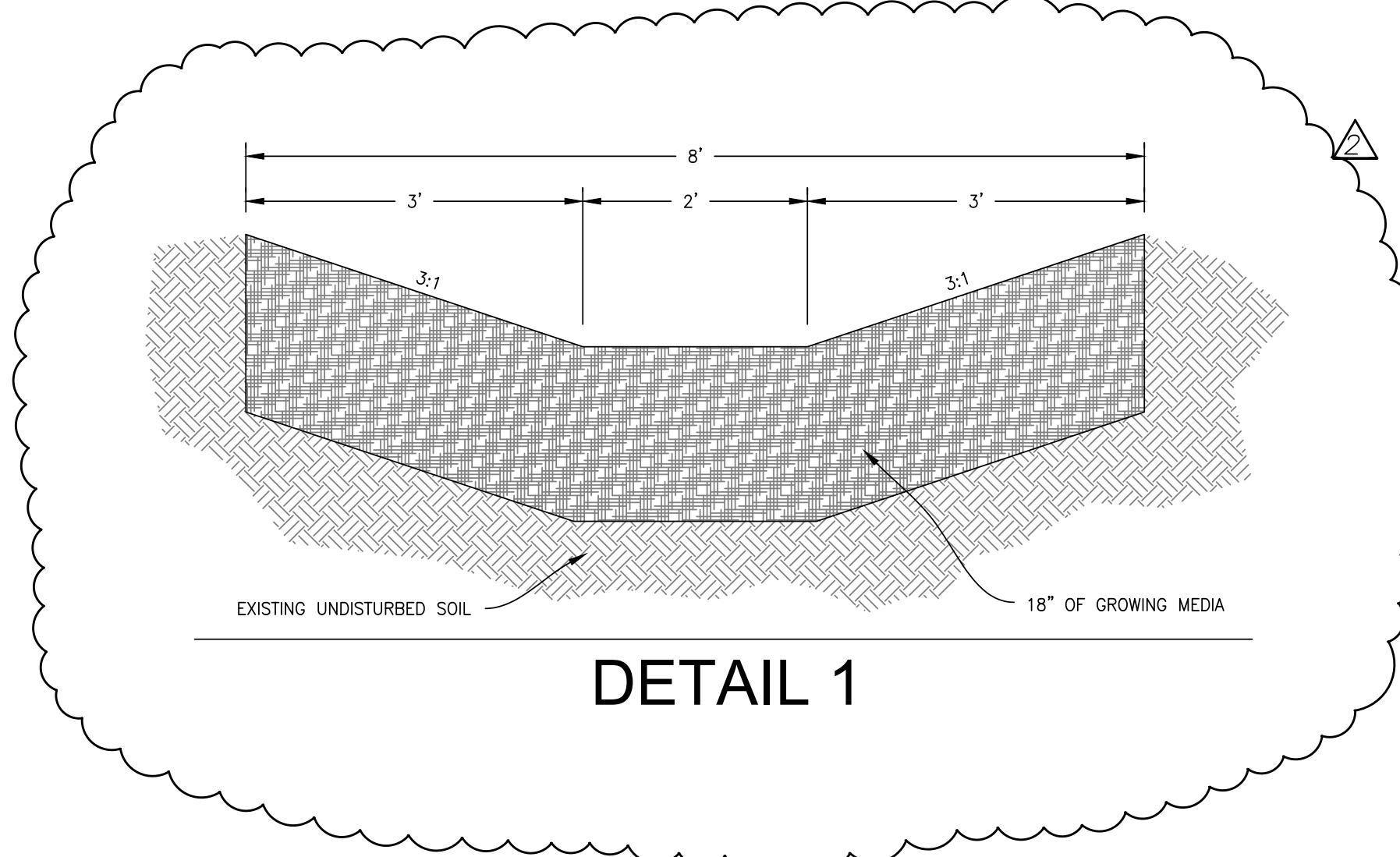
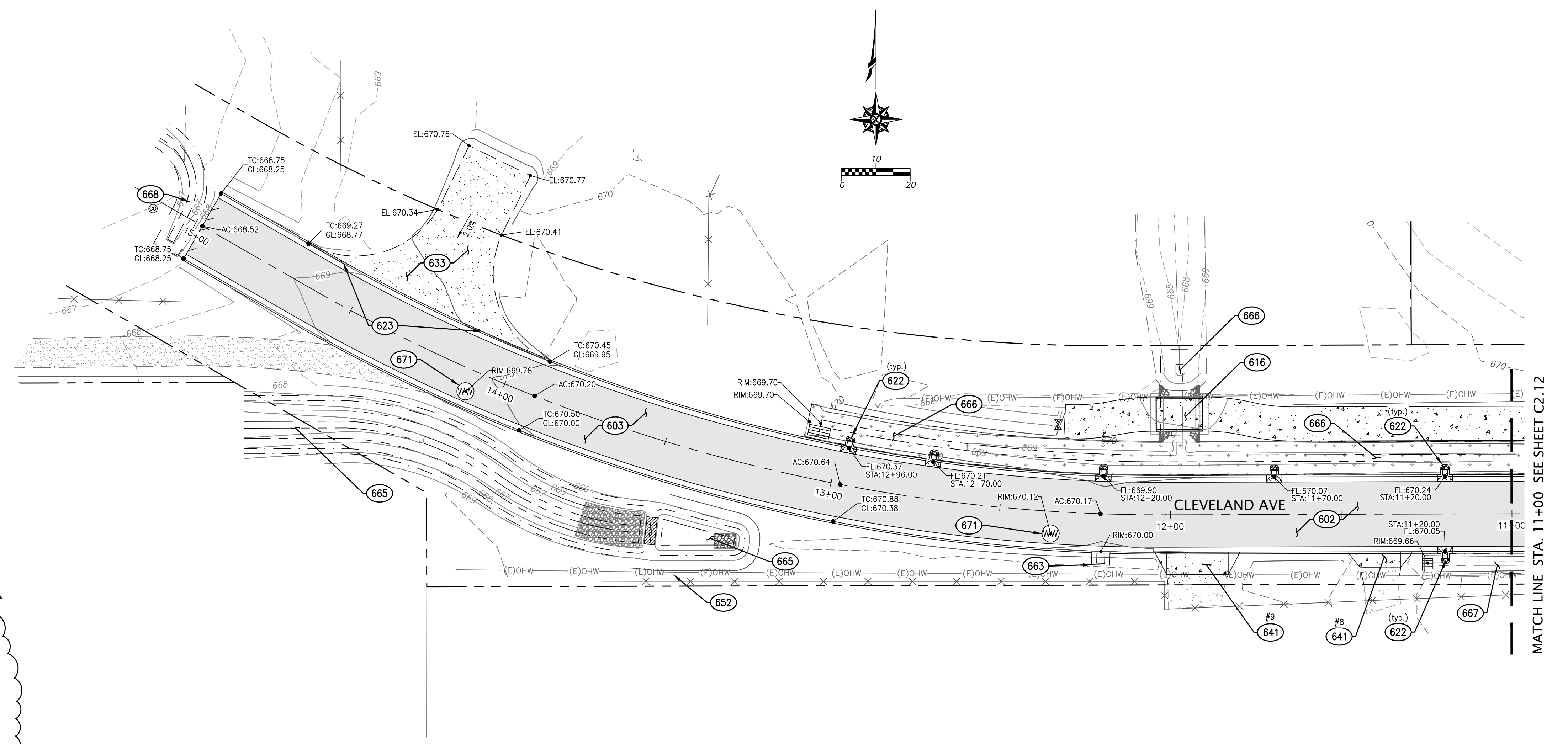
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**CONSTRUCTION NOTES:**

- 602 CONSTRUCT PAVEMENT SECTION, CURB & GUTTER AND SIDEWALK PER CROSS SECTION 2, SHEET C0.03.
- 604 CONSTRUCT PAVEMENT SECTION, CURB & GUTTER AND SIDEWALK PER CROSS SECTION 4, SHEET C0.03.
- 616 CONSTRUCT MULTI USE FOOT BRIDGE. SEE SHEET S1
- 622 INSTALL CURB CUT. PER DETAIL 1, SHEET C6.03
- 623 CONSTRUCT 6" TALL 24" MOUNTABLE CURB AND GUTTER OVER 12" OF AGGREGATE PER ODOT STD DWG RD 700, SHEET C6.02
- 633 12" OF 3/4"-0 GRAVEL COMPACTED TO 95% MODIFIED PROCTOR.
- 641 CONSTRUCT DRIVEWAY PER SHEET C2.15 AND ODOT STD DWG RD740, SHEET C6.02
- 652 VERIFY WITH UTILITY POLE OWNER FOR GRADING DITCH AROUND POLE.
- 663 INSTALL CURB INLET PER STORMWATER SEWER PLAN
- 665 FOR ABOVE GROUND STORMWATER FACILITIES SEE STORMWATER DETAILS, SHEET C3.91
- 666 FOR ABOVE GROUND STORMWATER FACILITIES SEE STORMWATER DETAILS, SHEET C3.92
- 667b INSTALL 6-FOOT WIDE DITCH WITH 3:1 SIDE SLOPES WITH A 2-FOOT WIDE BOTTOM ALONG ROAD IMPROVEMENTS, PER DETAIL 2, SHEET C2.12.
- 668 INSTALL 8-FOOT WIDE DITCH WITH 3:1 SIDE SLOPES WITH A 2-FOOT WIDE BOTTOM AT END OF ROAD IMPROVEMENTS SLOPING TOWARD EXISTING CHANNEL TO THE NORTH PER DETAIL 1, THIS SHEET.



MATCH LINE STA. 11+00 SEE SHEET C2.12

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**CLEVELAND STREET  
CAPITAL IMPROVEMENT PROJECT**

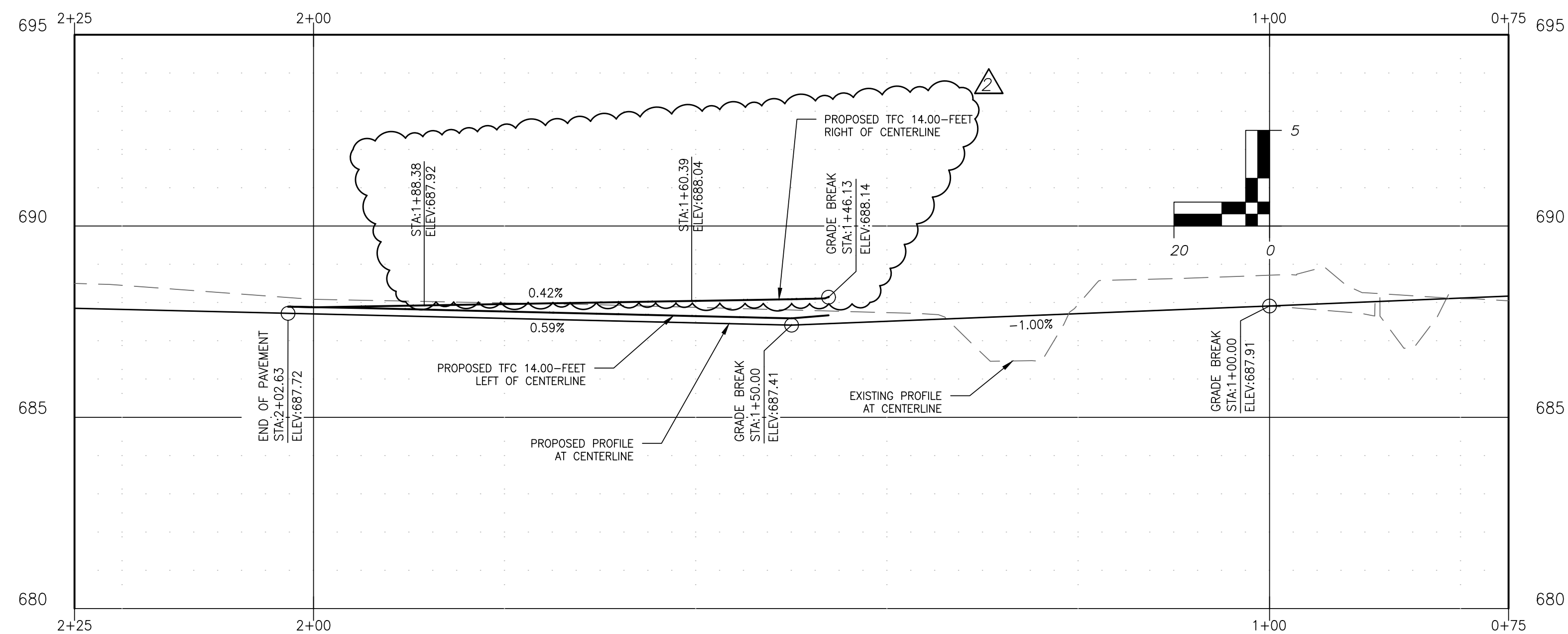
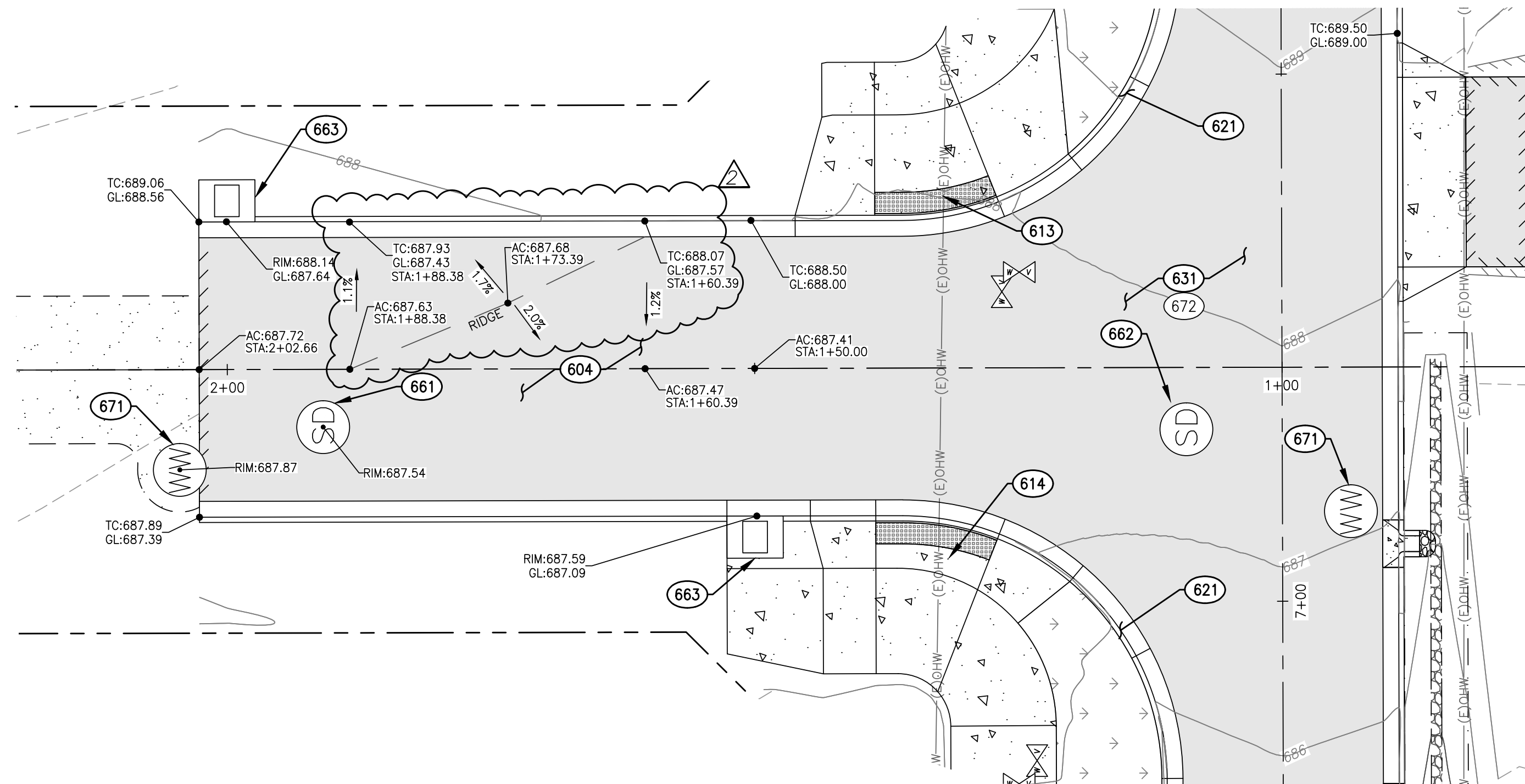
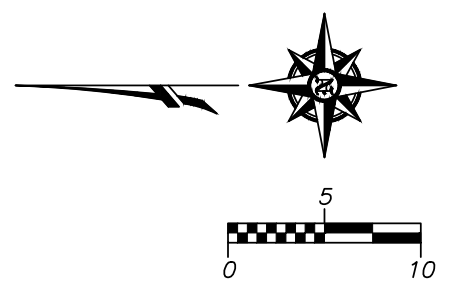
**GRADING PLAN AND PROFILE  
CLEVELAND ST. STA 11+00 TO 15+00**

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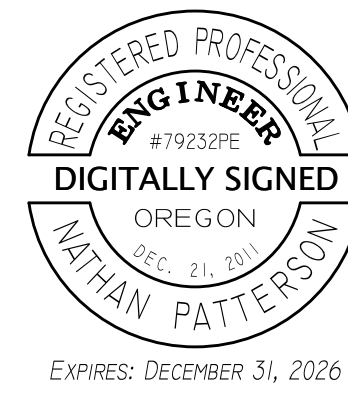
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**CONSTRUCTION NOTES:**

- 604 CONSTRUCT PAVEMENT SECTION, CURB & GUTTER AND SIDEWALK PER CROSS SECTION 4, SHEET C0.03.
- 613 INSTALL CURB AND RAMP, PER DETAIL 2 SHEET C2.14
- 614 INSTALL CURB RAMP, PER DETAIL 3, SHEET C2.14
- 621 CONSTRUCT 6" TALL 24" CURB AND GUTTER OVER 12" OF AGGREGATE PER ODOT STANDARD DRAWING RD700, SHEET C6.02
- 631 PAVEMENT BASE COURSE SHALL BE ASPHALT CONCRETE, 2" LIFT OF LEVEL 2, 1/2" DENSE HMAC. WEARING COURSE SHALL BE ASPHALT CONCRETE 2" LIFT OF LEVEL 2, 1/2" DENSE HMAC. FOLLOW 2024 OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION. COMPACT ALL COURSES TO A MINIMUM OF 91% RICE GRAVITY OR GREATER. OFFSET JOINT OF EACH COURSE OF ASPHALT CONCRETE BY 2 FEET SO JOINTS DO NOT MATCH PER 2024 OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION.
- 661 NEW 48" STORMWATER MANHOLE, PER STORMWATER SEWER PLAN.
- 662 NEW 60" STORMWATER MANHOLE, PER STORMWATER SEWER PLAN.
- 663 INSTALL CURB INLET, PER STORMWATER SEWER PLAN.
- 671 NEW 48" SANITARY MANHOLE, PER STORMWATER SEWER PLAN.
- 672 BASE ROCK SHALL BE 12" MIN. 1"-0" CRUSHED ROCK AGGREGATE. AGGREGATE SHALL BE COMPACTED TO 95% RELATIVE MAXIMUM DENSITY AS DETERMINED BY ASHTO T-180. FOLLOW 2024 OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION.



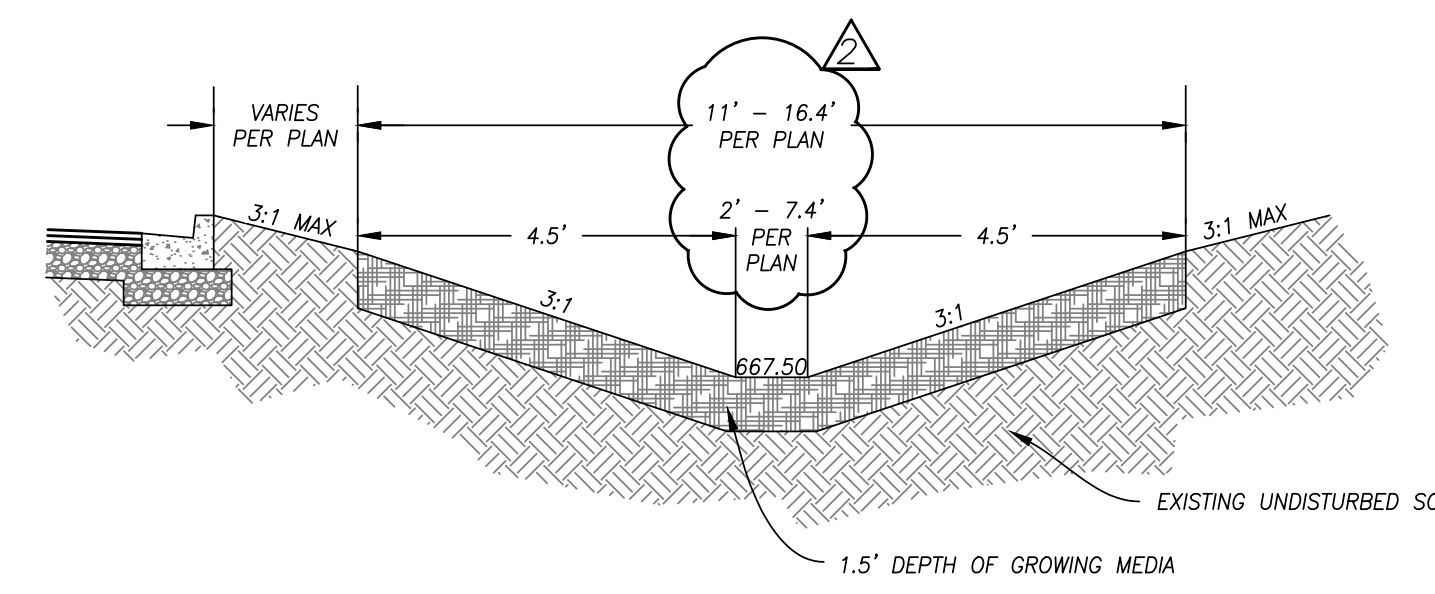
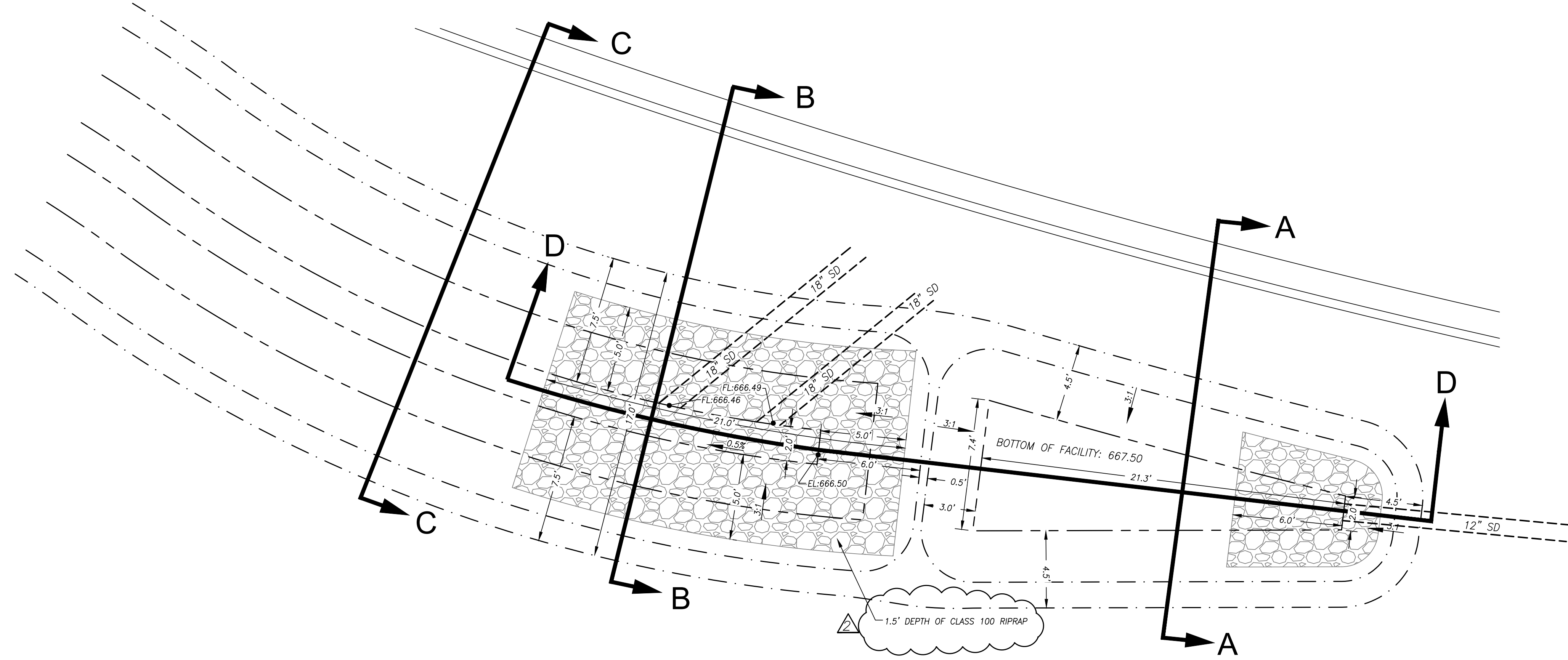
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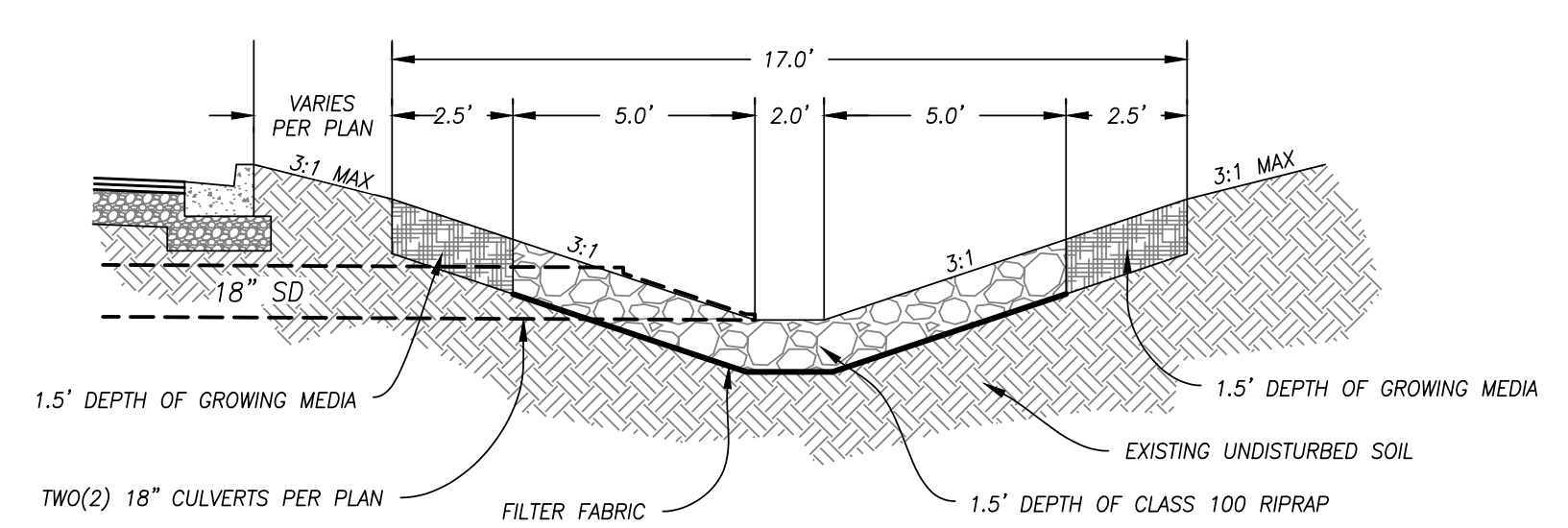
REVISIONS:		
No.	DESCRIPTION	DATE
1	ADDENDUM 1	12/18
2	ADDENDUM 2	1/10

<b>CLEVELAND STREET CAPITAL IMPROVEMENT PROJECT</b>		
GRADING PLAN AND PROFILE S. 4TH ST. STA. 0+75 TO 2+00 AND S.4TH ST./CLEVELAND ST. INTERSECTION		
DRAWN BY: JAD/JRW	CHECKED BY: AWMS	DATE: 12/12/2024
Sheet No. <b>C2.16</b>	JOB No. 23-001C	

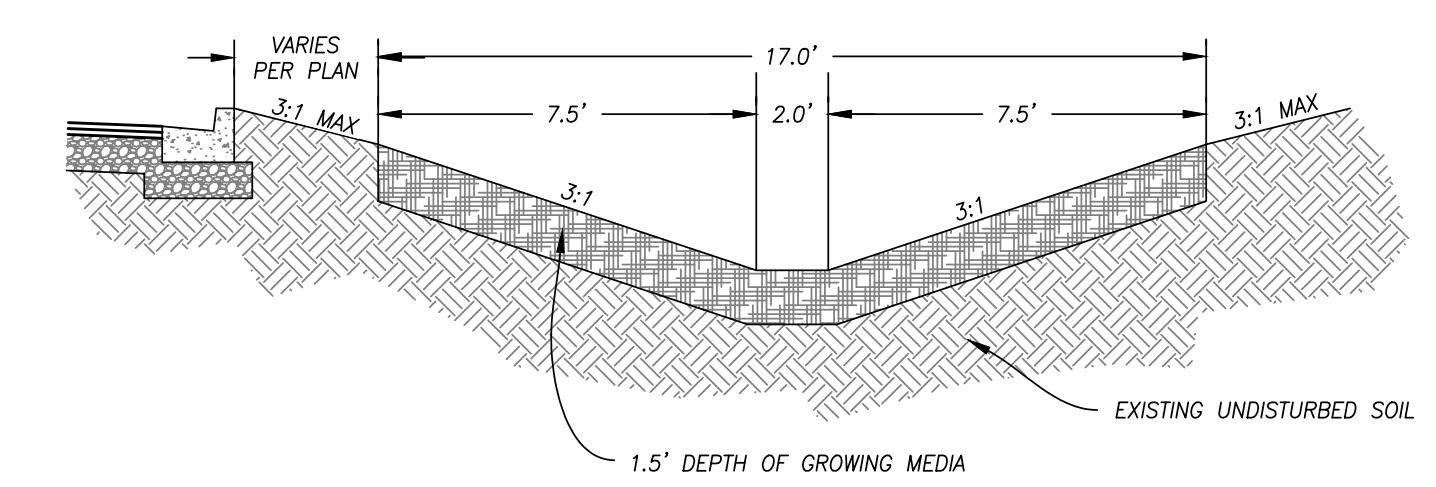




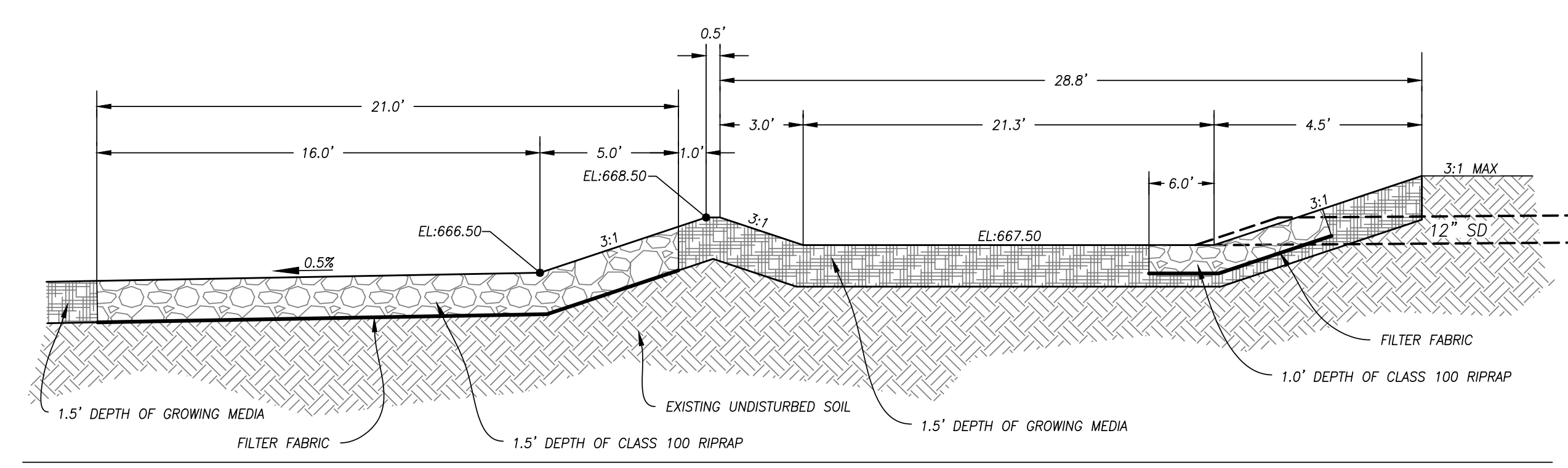
A-A NTS



B-B NTS



C-C NTS



D-D NTS

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**CLEVELAND STREET  
CAPITAL IMPROVEMENT PROJECT**

TREATMENT POND AND  
CONVEYANCE CHANNEL  
DETAIL SHEET 1

Sheet No. **C3.91**

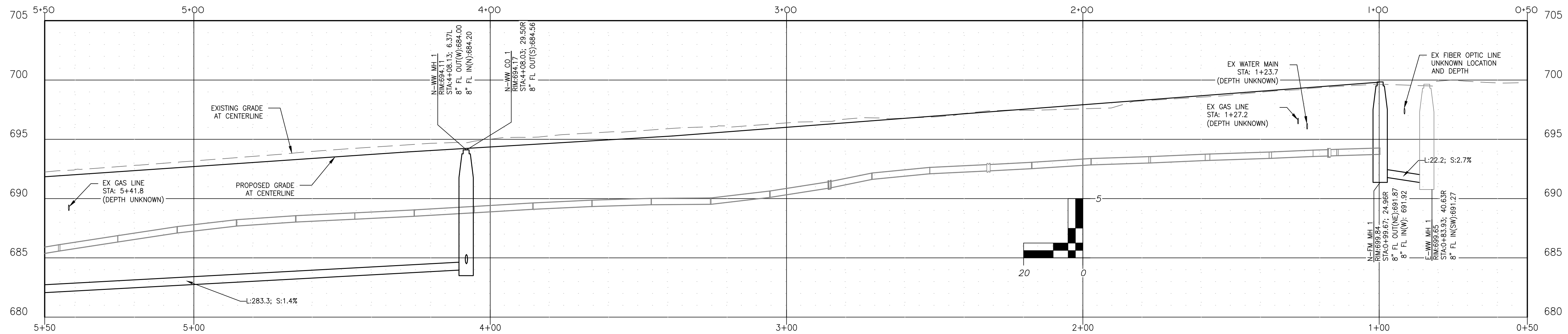
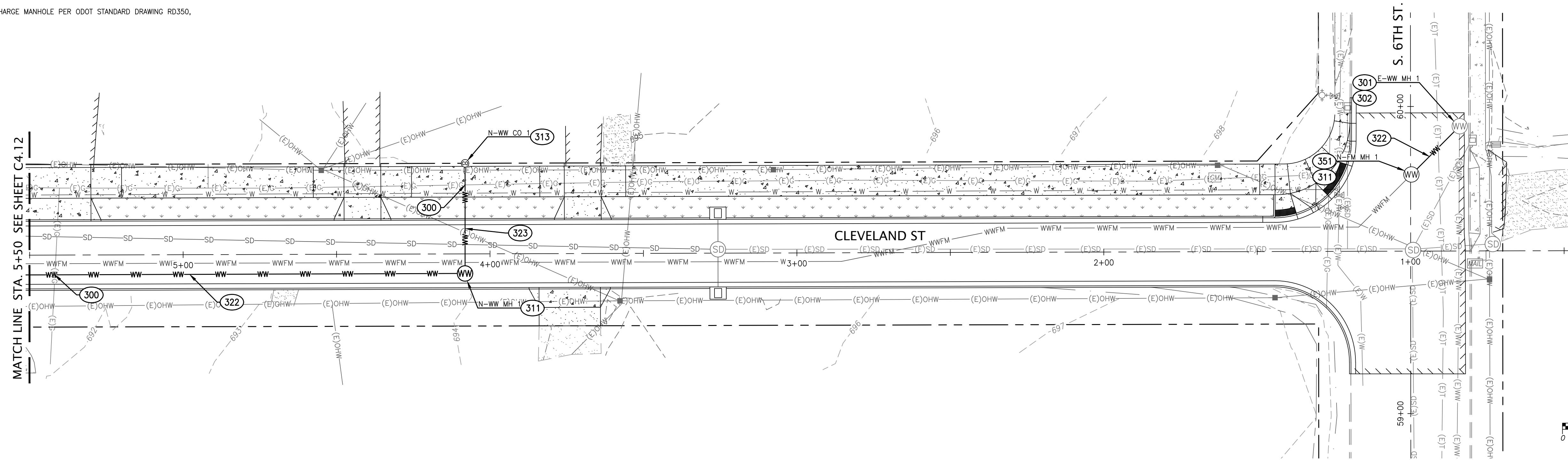
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**CONSTRUCTION NOTES:**

- 300 POTHOLE EXISTING UTILITY AND VERIFY LOCATION, DEPTH, MATERIAL AND SIZE. NOTIFY ENGINEER OF ANY DISCREPANCIES. COORDINATE WITH UTILITY COMPANY IF ADJUSTMENTS ARE REQUIRED
- 301 ADJUST RIM TO MATCH PROPOSED GRADE
- 302 CONNECT PROPOSED PIPES INTO EXISTING SANITARY MANHOLE PER ODOT STANDARD DRAWING RD345, SHEET C6.02. ENGINEER TO INSPECT FLOWLINE LOCATIONS PRIOR TO CORE DRILLING.
- 311 FURNISH AND INSTALL 48" SANITARY SEWER MANHOLE PER ODOT STANDARD DRAWING RD338, SHEET C6.05
- 313 FURNISH AND INSTALL 8" SANITARY SEWER CLEANOUT PER ODOT STANDARD DRAWING RD362, SHEET C6.05
- 322 FURNISH AND INSTALL 8" PVC SANITARY SEWER PIPE W/ TRACER WIRE PER ODOT STANDARD DRAWING RD300, SHEET C6.01
- 323 FURNISH AND INSTALL 8" PVC SANITARY SEWER PIPE AT 1.0% SLOPE W/ TRACER WIRE PER OREGON STANDARD DRAWING RD300, SHEET C6.01
- 351 FURNISH AND INSTALL FORCE MAIN DISCHARGE MANHOLE PER ODOT STANDARD DRAWING RD350, SHEET C6.05



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**REVISIONS:**

No.	DESCRIPTION	DATE
1	ADDENDUM 1	12/18
2	ADDENDUM 2	1/10

**CLEVELAND STREET  
CAPITAL IMPROVEMENT PROJECT**

**SANITARY SEWER PLAN AND PROFILE  
CLEVELAND ST. STA 0+80 TO 5+50**

Sheet No.  
**C4.11**

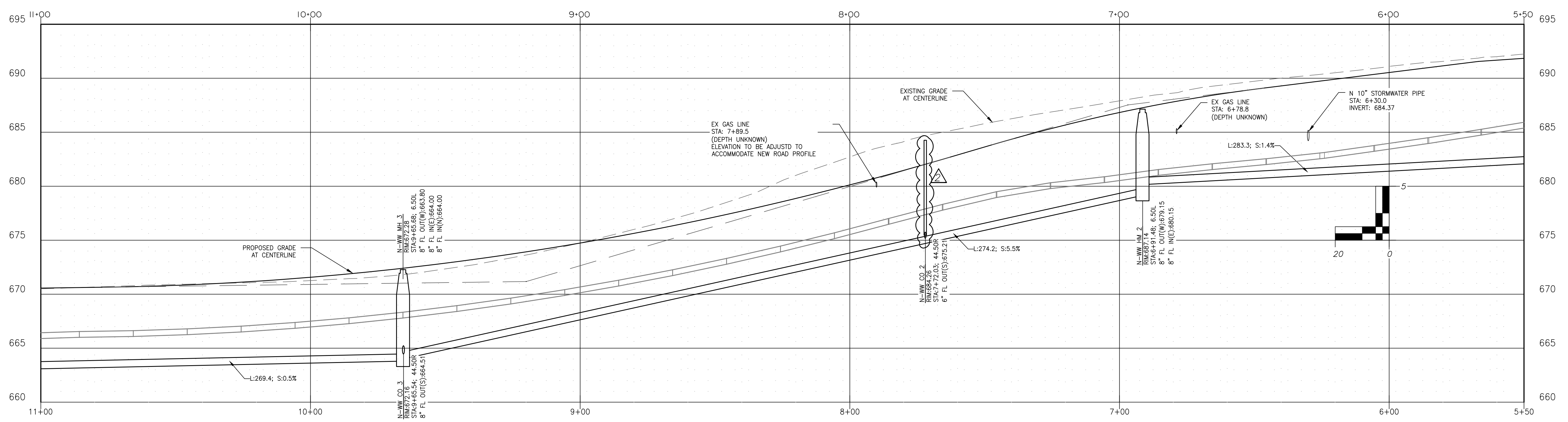
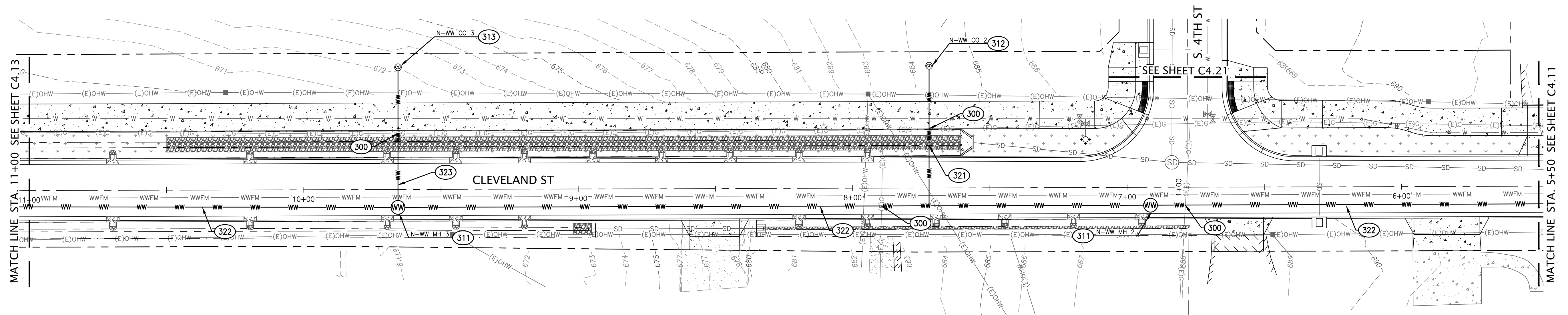
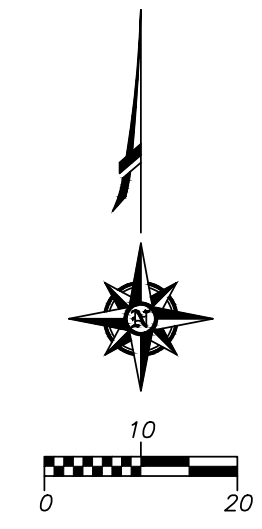
DRAWN BY: JAD	CHECKED BY: AWMS	DATE: 12/12/2024
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JOB No. 23-001C

Z:\2023\23-001C Cottage Grove South Road & Bridge Feasibility\Civil\Production Drawings\Construction Sheets\23-001C\_C.G.CIP-C3-STORM-C4-SSEBS.dwg 1/10/2025 11:06 AM ANDREWS

**CONSTRUCTION NOTES:**

- 300 POT HOLE EXISTING UTILITY AND VERIFY LOCATION, DEPTH, MATERIAL AND SIZE. NOTIFY ENGINEER OF ANY DISCREPANCIES. COORDINATE WITH UTILITY COMPANY IF ADJUSTMENTS ARE REQUIRED
- 311 FURNISH AND INSTALL 48" SANITARY SEWER MANHOLE PER ODOT STANDARD DRAWING RD338, SHEET C6.05
- 312 FURNISH AND INSTALL 6" SANITARY SEWER CLEANOUT PER ODOT STANDARD DRAWING RD362, SHEET C6.05
- 313 FURNISH AND INSTALL 8" SANITARY SEWER CLEANOUT PER ODOT STANDARD DRAWING RD362, SHEET C6.05
- 321 FURNISH AND INSTALL 6" PVC SANITARY SEWER PIPE AT 1.0% SLOPE W/ TRACER WIRE PER OREGON STANDARD DRAWING RD300, SHEET C6.01
- 322 FURNISH AND INSTALL 8" PVC SANITARY SEWER PIPE W/ TRACER WIRE PER ODOT STANDARD DRAWING RD300, SHEET C6.01
- 323 FURNISH AND INSTALL 8" PVC SANITARY SEWER PIPE AT 1.0% SLOPE W/ TRACER WIRE PER OREGON STANDARD DRAWING RD300, SHEET C6.01



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1	ADDENDUM 1	12/18
2	ADDENDUM 2	1/10

**CLEVELAND STREET  
CAPITAL IMPROVEMENT PROJECT**

**SANITARY SEWER PLAN AND PROFILE  
CLEVELAND ST. STA 5+50 TO 11+00**

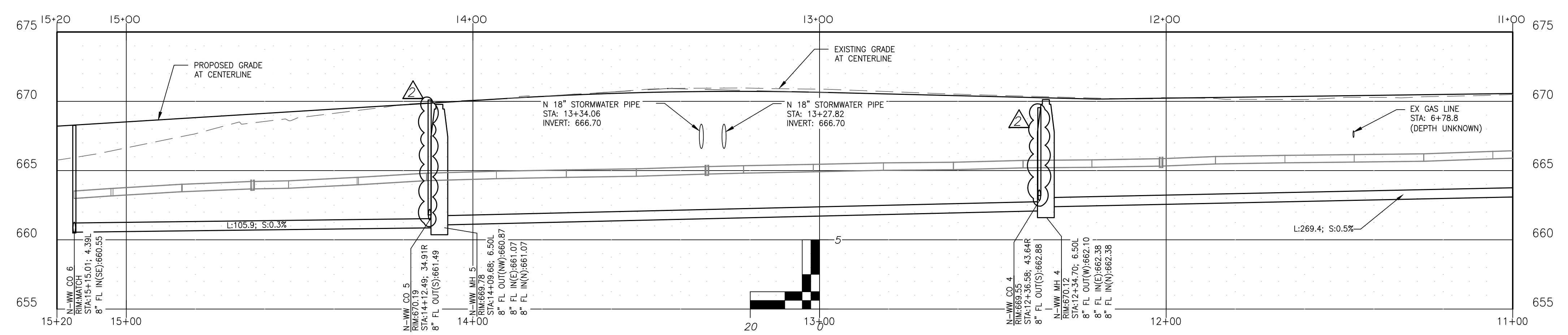
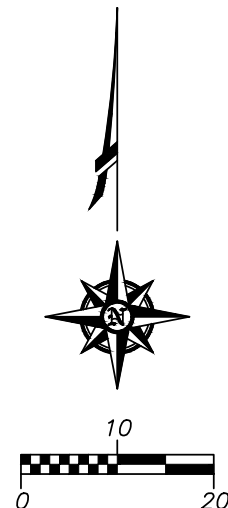
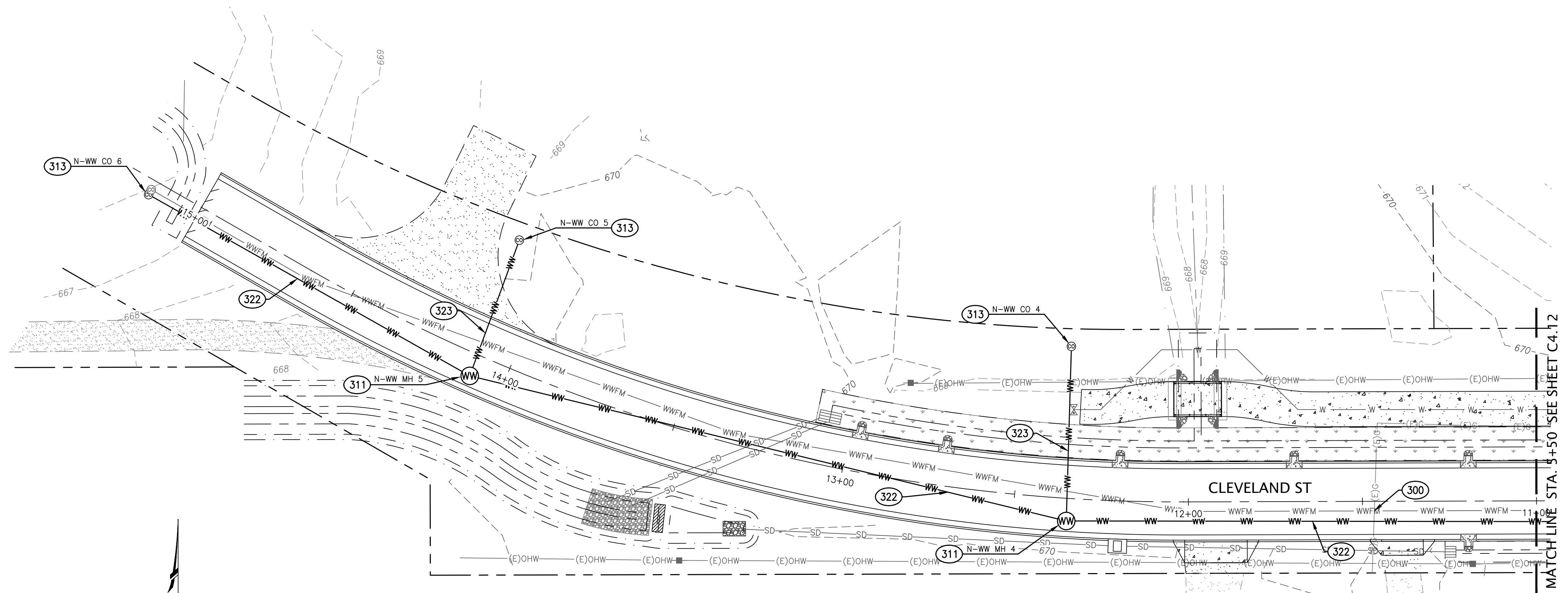
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DRAWN BY: JAD      CHECKED BY: AWMS      DATE: 12/12/2024      JOB No. 23-001C



**CONSTRUCTION NOTES:**

- 300 POT HOLE EXISTING UTILITY AND VERIFY LOCATION, DEPTH, MATERIAL AND SIZE. NOTIFY ENGINEER OF ANY DISCREPANCIES. COORDINATE WITH UTILITY COMPANY IF ADJUSTMENTS ARE REQUIRED
- 311 FURNISH AND INSTALL 48" SANITARY SEWER MANHOLE PER ODOT STANDARD DRAWING RD338, SHEET C6.05
- 313 FURNISH AND INSTALL 8" SANITARY SEWER CLEANOUT PER ODOT STANDARD DRAWING RD362, SHEET C6.05
- 322 FURNISH AND INSTALL 8" PVC SANITARY SEWER PIPE W/ TRACER WIRE PER ODOT STANDARD DRAWING RD300, SHEET C6.01
- 323 FURNISH AND INSTALL 8" PVC SANITARY SEWER PIPE AT 1.0% SLOPE W/ TRACER WIRE PER OREGON STANDARD DRAWING RD300, SHEET C6.01



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1	ADDENDUM 1	12/18
2	ADDENDUM 2	1/10

**CLEVELAND STREET  
 CAPITAL IMPROVEMENT PROJECT**

SANITARY SEWER PLAN AND PROFILE  
 CLEVELAND ST. STA 11+00 TO 15+00

Sheet No.  
**C4.13**

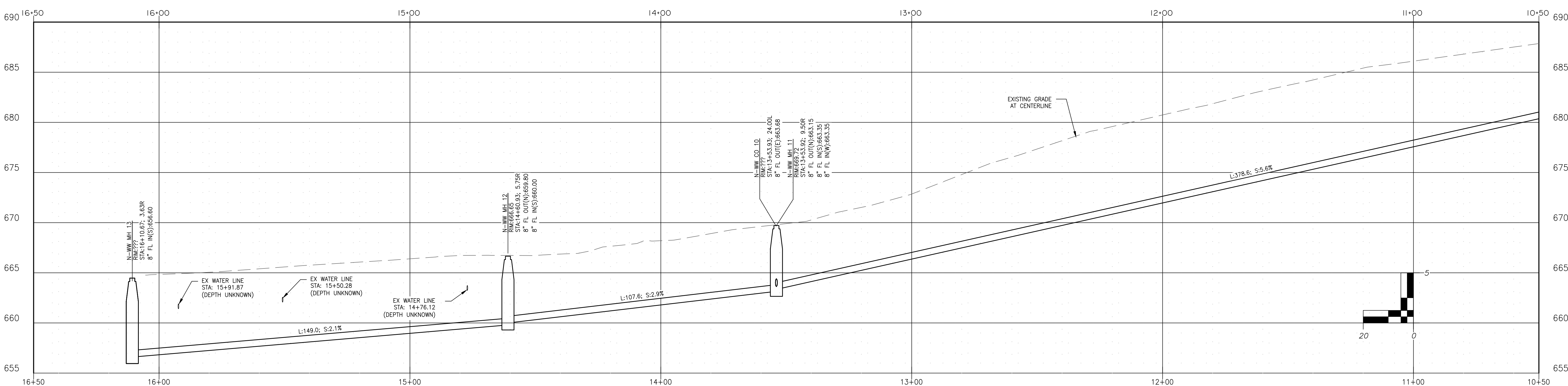
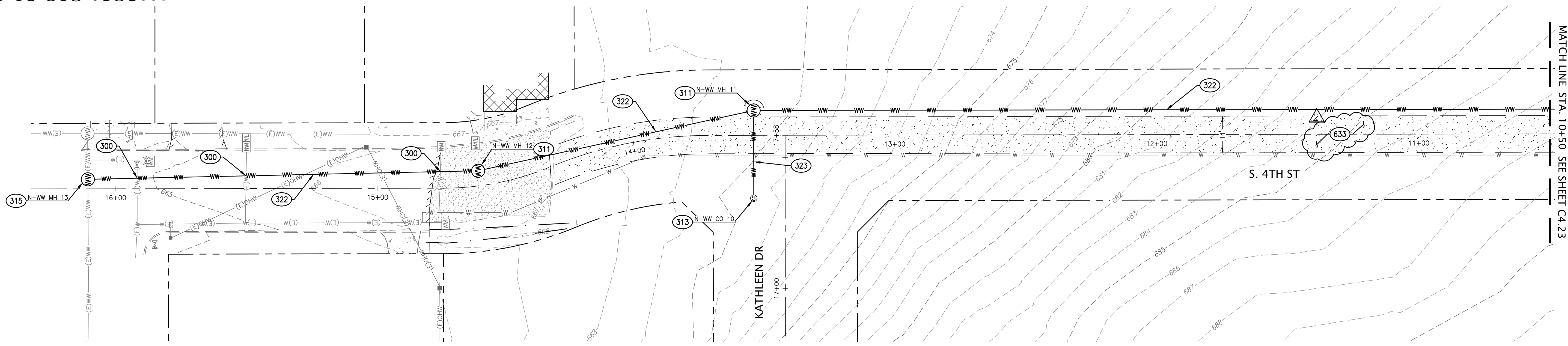
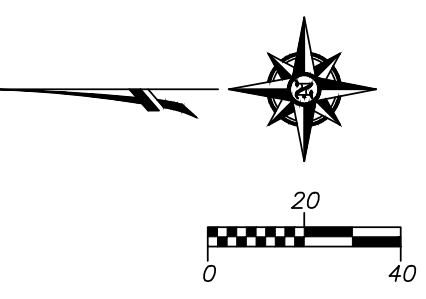
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- 300 POT HOLE EXISTING UTILITY AND VERIFY LOCATION, DEPTH, MATERIAL AND SIZE. NOTIFY ENGINEER OF ANY DISCREPANCIES. COORDINATE WITH UTILITY COMPANY IF ADJUSTMENTS ARE REQUIRED
- 311 FURNISH AND INSTALL 48" SANITARY SEWER MANHOLE PER ODOT STANDARD DRAWING RD338, SHEET C6.05
- 313 FURNISH AND INSTALL 8" SANITARY SEWER CLEANOUT PER ODOT STANDARD DRAWING RD362, SHEET C6.05
- 315 FURNISH AND INSTALL CAST IN PLACE MANHOLE PER ODOT STANDARD DRAWING RD344, SHEET C6.01
- 322 FURNISH AND INSTALL 8" PVC SANITARY SEWER PIPE W/ TRACER WIRE PER ODOT STANDARD DRAWING RD300, SHEET C6.01
- 323 FURNISH AND INSTALL 8" PVC SANITARY SEWER PIPE AT 1.0% SLOPE W/ TRACER WIRE PER OREGON STANDARD DRAWING RD300, SHEET C6.01
- 633 12" OF 3/4"-0 GRAVEL COMPACTED TO 95% MODIFIED PROCTOR.



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No.	DESCRIPTION	DATE
1	ADDENDUM 1	12/18
2	ADDENDUM 2	1/10

**CLEVELAND STREET  
CAPITAL IMPROVEMENT PROJECT**

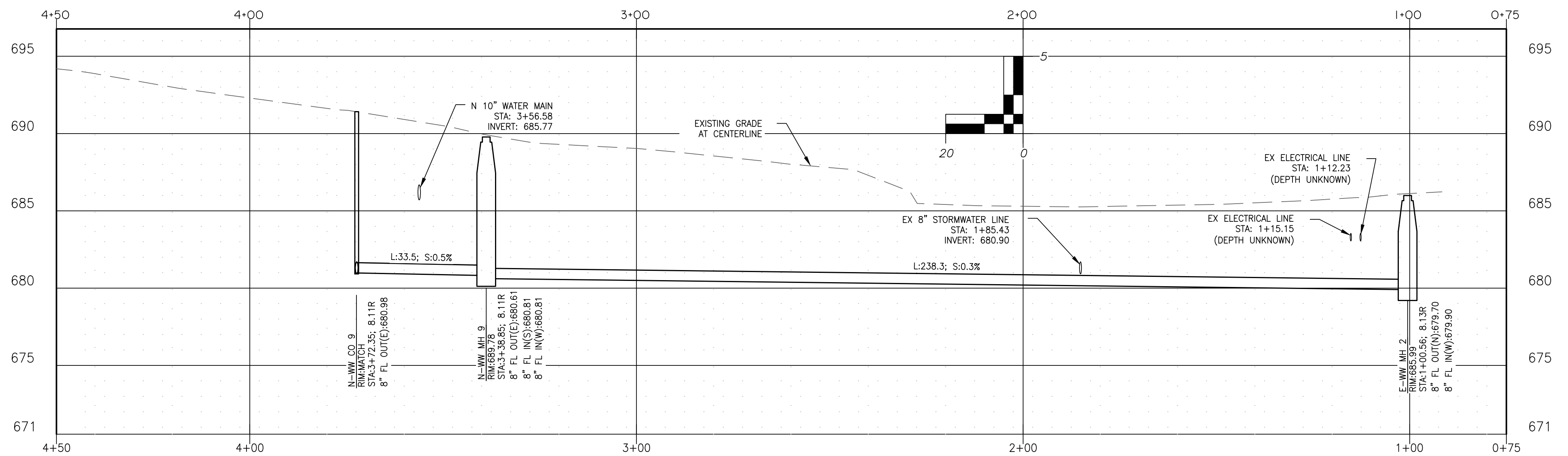
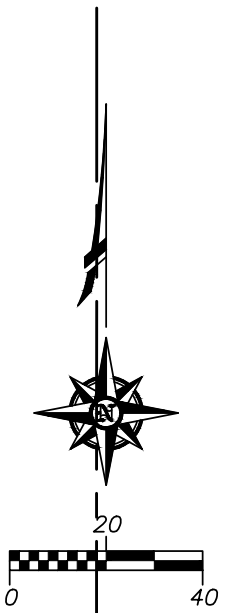
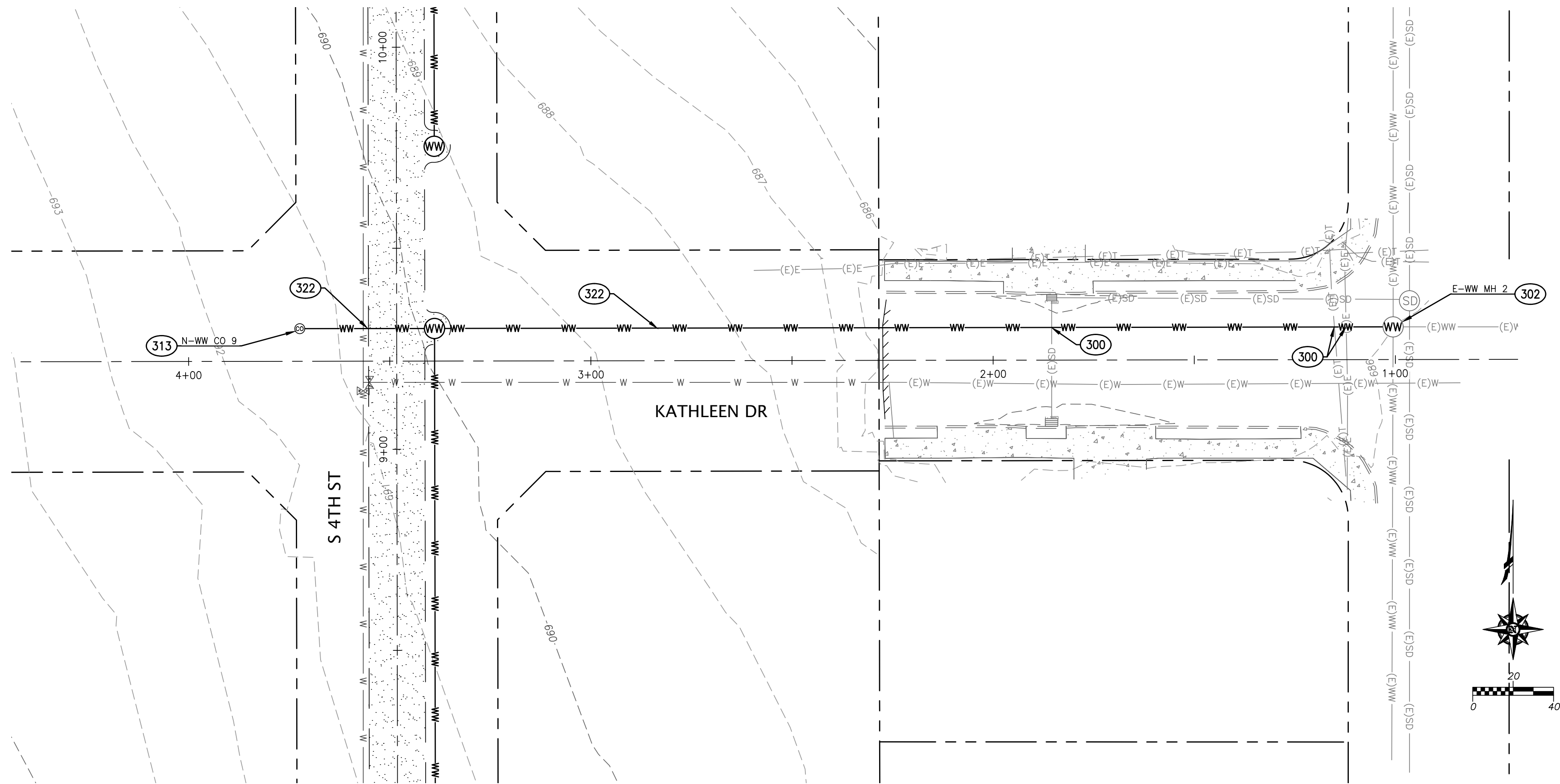
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S 4th ST. STA 10+50 TO 16+50**

Sheet No.  
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DRAWN BY: JAD      CHECKED BY:      DATE: 12/12/2024      JOB No. 23-001C

**CONSTRUCTION NOTES:**

- 300** POT HOLE EXISTING UTILITY AND VERIFY LOCATION, DEPTH, MATERIAL AND SIZE. NOTIFY ENGINEER OF ANY DISCREPANCIES. COORDINATE WITH UTILITY COMPANY IF ADJUSTMENTS ARE REQUIRED.
- 302** CONNECT PROPOSED PIPES INTO EXISTING SANITARY MANHOLE PER ODOT STANDARD DRAWING RD345, SHEET C6.02. ENGINEER TO INSPECT FLOWLINE LOCATIONS PRIOR TO CORE DRILLING.
- 313** FURNISH AND INSTALL 8" SANITARY SEWER CLEANOUT PER ODOT STANDARD DRAWING RD362, SHEET C6.05.
- 322** FURNISH AND INSTALL 8" PVC SANITARY SEWER PIPE W/ TRACER WIRE PER ODOT STANDARD DRAWING RD300, SHEET C6.01.



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1	ADDENDUM 1	12/18
2	ADDENDUM 2	1/10

**CLEVELAND STREET  
 CAPITAL IMPROVEMENT PROJECT**

**SANITARY SEWER PLAN AND PROFILE  
 KATHLEEN DR. STA 0+50 TO 4+00**

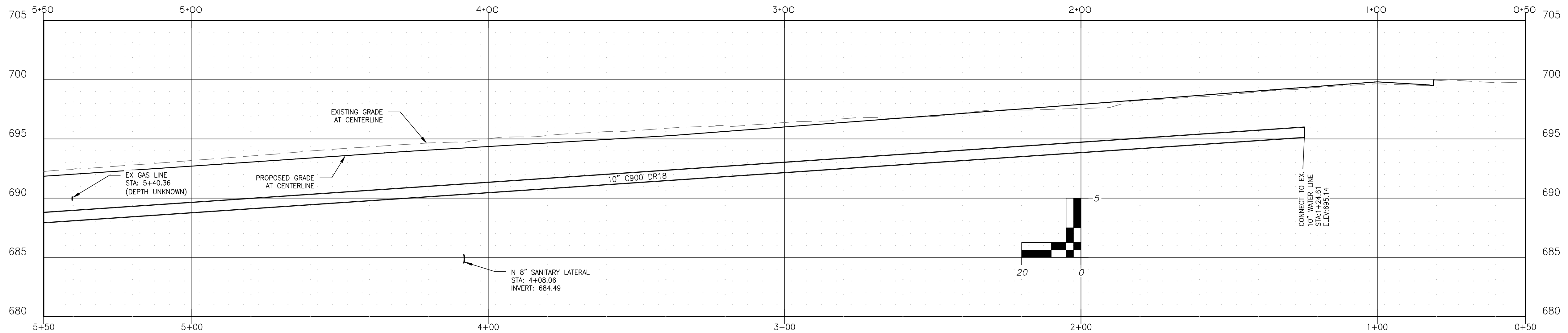
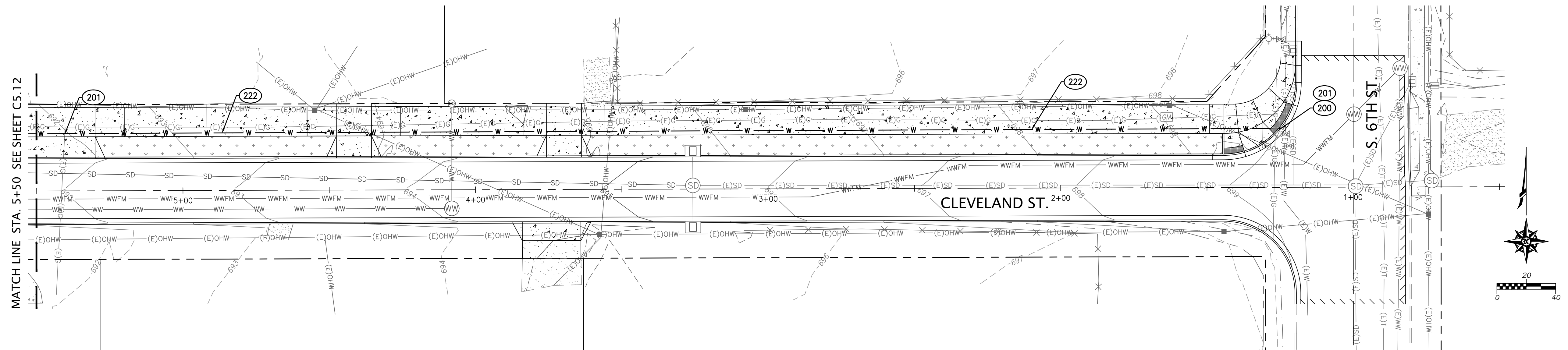
Sheet No.  
**C4.31**

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JOB No. 23-001C

**CONSTRUCTION NOTES:**

- 200 CITY OF COTTAGE GROVE PUBLIC WORKS TO MAKE FINAL CONNECTION TO EXISTING WATER LINE WITH A 10" X 8" REDUCER TO THE 8" GATE VALVE. CONTRACTOR TO COORDINATE WORK WITH CITY.
- 201 POTHOLE EXISTING UTILITY LINE AND VERIFY LOCATION, DEPTH, MATERIAL AND SIZE. NOTIFY ENGINEER OF ANY DISCREPANCIES.
- 222 FURNISH AND INSTALL 10" PVC C-900 (DR 18) WATERLINE. WATERLINE TRENCH PER ODOT STD DWG RD300, SHEET C6.01. DEFLECT PIPE AT JOINTS AS REQUIRED TO ACHIEVE ALIGNMENT. PROVIDE MECHANICAL JOINT THRUST RESTRAINT. MINIMUM 36" OF COVER.
- 232 FURNISH AND INSTALL 10" GATE VALVE (RESILIENT WEDGE) WITH RETAINER GLANDS, AND VALVE BOX PER CITY OF COTTAGE GROVE STANDARD DRAWING 408, SHEET C6.03.



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1	ADDENDUM 1	12/18
2	ADDENDUM 2	1/10

**CLEVELAND STREET  
CAPITAL IMPROVEMENT PROJECT**

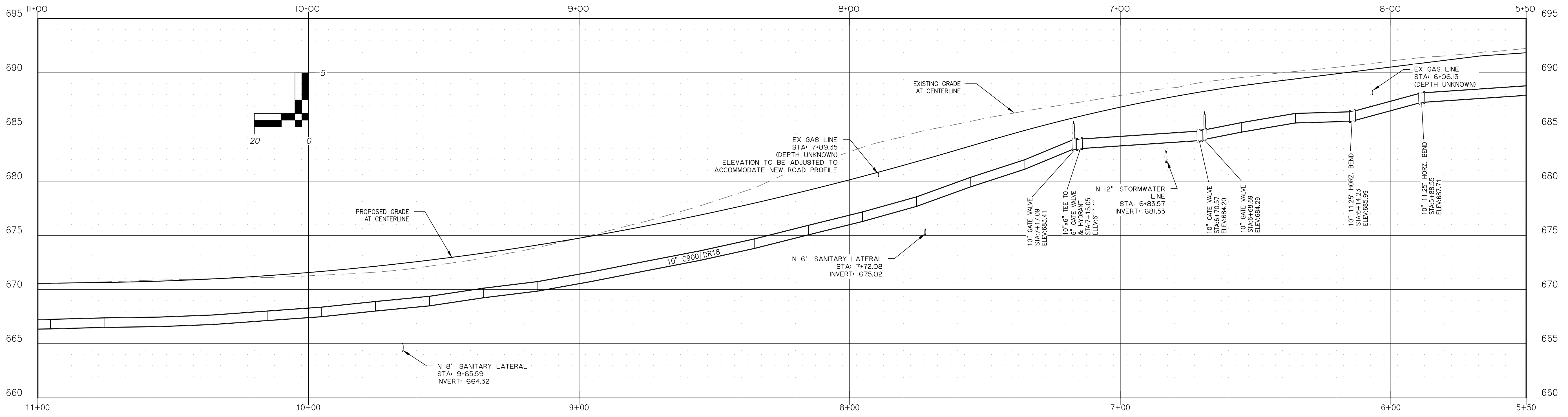
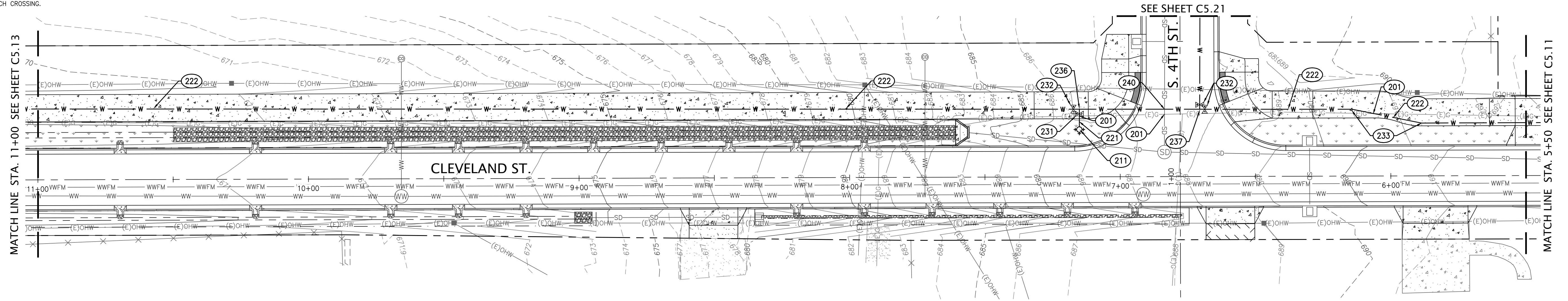
**WATER PLAN AND PROFILE  
CLEVELAND ST. STA 0+80 TO 5+50**

Sheet No.  
**C5.11**

DRAWN BY: JAD/VJ      CHECKED BY: NP      DATE: 12/12/2024      JOB No. 23-01C

**CONSTRUCTION NOTES:**

- 201 POTHOLE EXISTING UTILITY LINE AND VERIFY LOCATION, DEPTH, MATERIAL AND SIZE. NOTIFY ENGINEER OF ANY DISCREPANCIES.
- 211 FURNISH AND INSTALL FIRE HYDRANT ASSEMBLY WITH VALVE PER CITY OF COTTAGE GROVE STANDARD DRAWINGS 401 AND 401B, SHEET C6.04.
- 221 FURNISH AND INSTALL 6" PVC C-900 (DR 18) WATERLINE. WATERLINE TRENCH PER ODOT STANDARD DRAWING R0300, SHEET C6.01. DEFLECT PIPE AT JOINTS AS REQUIRED TO ACHIEVE ALIGNMENT. PROVIDE MECHANICAL JOINT THRUST RESTRAINT. MINIMUM 36" OF COVER.
- 222 FURNISH AND INSTALL 10" PVC C-900 (DR 18) WATERLINE. WATERLINE TRENCH PER ODOT STANDARD DRAWING R0300, SHEET C6.01. DEFLECT PIPE AT JOINTS AS REQUIRED TO ACHIEVE ALIGNMENT. PROVIDE MECHANICAL JOINT THRUST RESTRAINT. MINIMUM 36" OF COVER.
- 231 FURNISH AND INSTALL 6" GATE VALVE (RESILIENT WEDGE) WITH RETAINER GLANDS. AND VALVE BOX PER CITY OF COTTAGE GROVE STANDARD DRAWING 408, SHEET C6.03.
- 232 FURNISH AND INSTALL 10" GATE VALVE (RESILIENT WEDGE) WITH RETAINER GLANDS. AND VALVE BOX PER CITY OF COTTAGE GROVE STANDARD DRAWING 408, SHEET C6.03.
- 233 FURNISH AND INSTALL 10" 11.25' HORIZONTAL BEND. PROVIDE MECHANICAL JOINT THRUST RESTRAINT.
- 236 FURNISH AND INSTALL 10"x10"x6" TEE WITH RETAINER GLANDS. PROVIDE MECHANICAL JOINT THRUST RESTRAINT.
- 237 FURNISH AND INSTALL 10" TEE WITH RETAINER GLANDS. PROVIDE MECHANICAL JOINT THRUST RESTRAINT.
- 240 WATER AND SANITARY/STORM SEWER CROSSINGS TO BE IN ACCORDANCE WITH OAR 333-061-0050 (9). CONTRACTOR TO CENTER ONE FULL LENGTH OF WATER PIPE WITH ONE FULL LENGTH OF SANITARY/STORM AT EACH CROSSING.



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No.	DESCRIPTION	DATE
1	ADDENDUM 1	12/18
2	ADDENDUM 2	1/10

**CLEVELAND STREET  
CAPITAL IMPROVEMENT PROJECT**

**WATER PLAN AND PROFILE  
CLEVELAND ST. STA 5+50 TO 11+00**

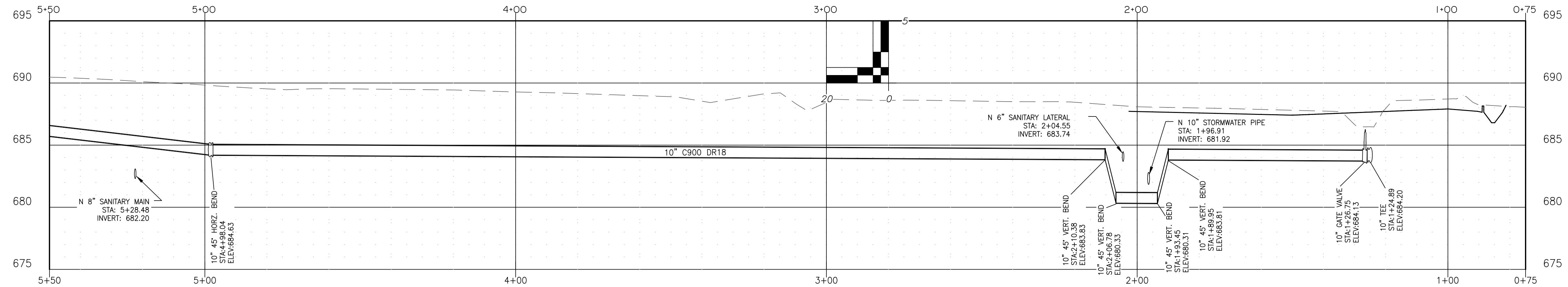
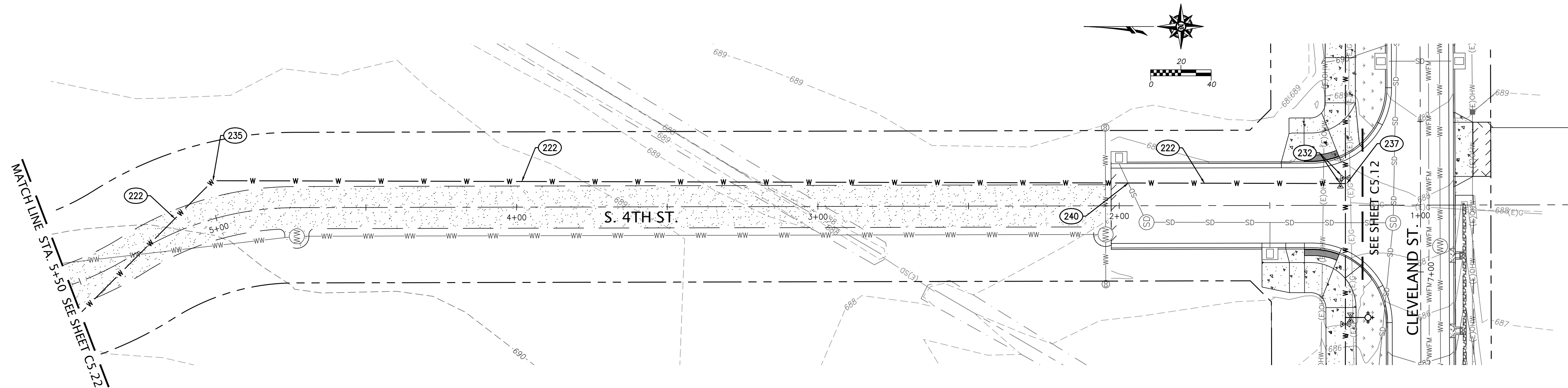
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**CONSTRUCTION NOTES:**

- 222 FURNISH AND INSTALL 10" PVC C-900 (OR 18) WATERLINE. WATERLINE TRENCH PER ODOT STANDARD DRAWING RD300, SHEET CS.01. DEFLECT PIPE AT JOINTS AS REQUIRED TO ACHIEVE ALIGNMENT. PROVIDE MECHANICAL JOINT THRUST RESTRAINT. MINIMUM 36" OF COVER.
- 232 FURNISH AND INSTALL 10" GATE VALVE (RESILIENT WEDGE) WITH RETAINER GLANDS. AND VALVE BOX PER CITY OF COTTAGE GROVE STANDARD DRAWING 408, SHEET CS.03.
- 235 FURNISH AND INSTALL 10" 45° HORIZONTAL BEND. PROVIDE MECHANICAL JOINT THRUST RESTRAINT.
- 237 FURNISH AND INSTALL 10" TEE WITH RETAINER GLANDS. PROVIDE MECHANICAL JOINT THRUST RESTRAINT.
- 240 WATER AND SANITARY/STORM SEWER CROSSINGS TO BE IN ACCORDANCE WITH OAR 333-061-0050 (9). CONTRACTOR TO CENTER ONE FULL LENGTH OF WATER PIPE WITH ONE FULL LENGTH OF SANITARY/STORM AT EACH CROSSING.



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No.	DESCRIPTION	DATE
1	ADDENDUM 1	12/18
2	ADDENDUM 2	1/10

**CLEVELAND STREET  
CAPITAL IMPROVEMENT PROJECT**

**WATER MAIN PLAN AND PROFILE  
S 4TH ST. STA 1+00 TO 5+50**

Sheet No.  
**C5.21**

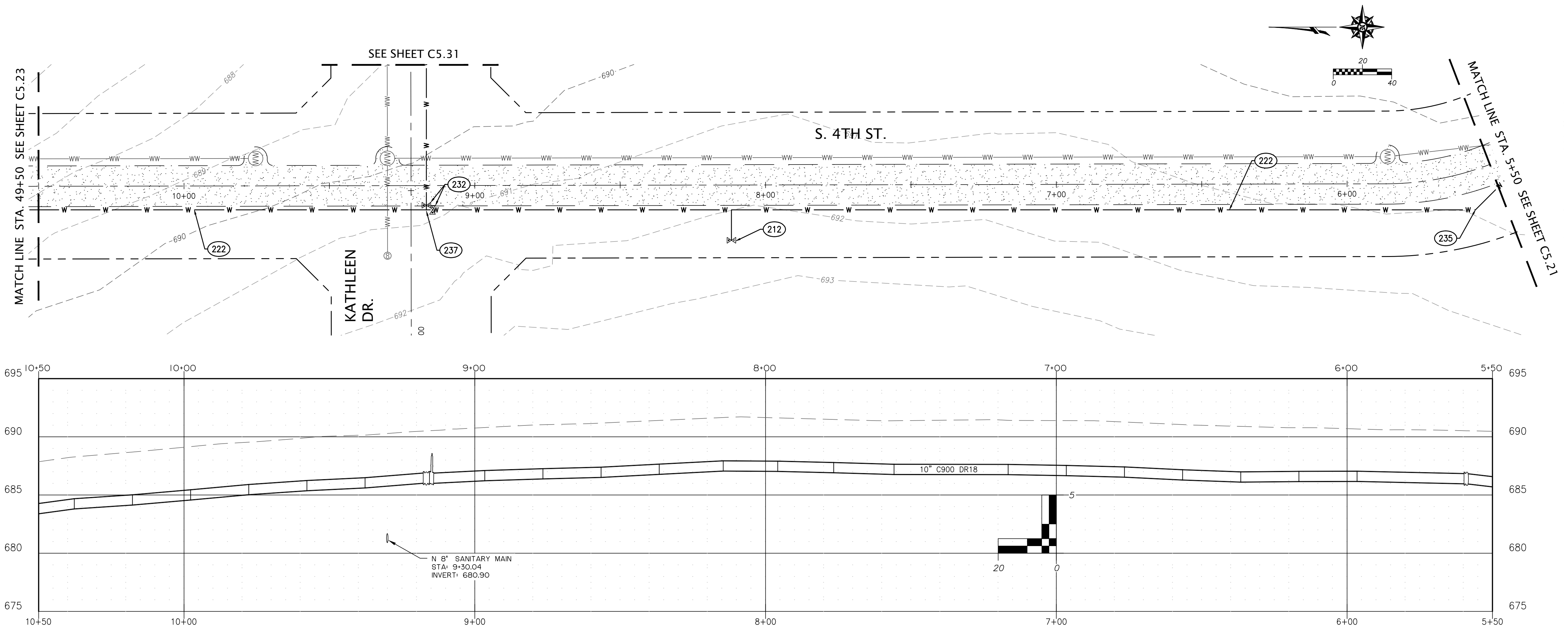
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**CONSTRUCTION NOTES:**

- 212 FURNISH AND INSTALL 1" COMBINATION AIR RELEASE VALVE PER CITY OF COTTAGE GROVE STANDARD DRAWING 406, SHEET C6.04.
- 222 FURNISH AND INSTALL 10" PVC C-900 (DR 18) WATERLINE. WATERLINE TRENCH PER ODOT STANDARD DRAWING RD300, SHEET C6.01. DEFLECT PIPE AT JOINTS AS REQUIRED TO ACHIEVE ALIGNMENT. PROVIDE MECHANICAL JOINT THRUST RESTRAINT. MINIMUM 48" OF COVER.
- 232 FURNISH AND INSTALL 10" GATE VALVE (RESILIENT WEDGE) WITH RETAINER GLANDS, AND VALVE BOX PER CITY OF COTTAGE GROVE STANDARD DRAWING 408, SHEET C6.03.
- 235 FURNISH AND INSTALL 10" 45° HORIZONTAL BEND. PROVIDE MECHANICAL JOINT THRUST RESTRAINT.
- 237 FURNISH AND INSTALL 10" TEE WITH RETAINER GLANDS. PROVIDE MECHANICAL JOINT THRUST RESTRAINT.



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2	ADDENDUM 2	1/10

**CLEVELAND STREET  
 CAPITAL IMPROVEMENT PROJECT**

**WATER MAIN PLAN AND PROFILE  
 S 4TH ST. STA 5+50 TO 10+50**

Sheet No.  
**C5.22**

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**CITY OF COTTAGE GROVE  
WATER STANDARD MATERIALS LIST  
REVISED NOVEMBER, 2022**

**WATER DISTRIBUTION PIPES**

- DUCTILE IRON PIPE STANDARD: PACIFIC STATES DUCTILE IRON PIPE OR EQUAL AWWA C104/C111/C150/C151 - 4" THRU 16"; MIN. CLASS S2, SPOOLS - MIN. CLASS S2
- DUCTILE IRON PIPE STANDARD: PACIFIC STATES DUCTILE IRON PIPE OR EQUAL AWWA C104/C111/C150/C151 - 4" THRU 16"; MIN. CLASS S2, SPOOLS - MIN. CLASS S2
- HDPE PIPE STANDARD: JM EAGLE WATER HDPE DIPS PIPE OR EQUAL - DR 11 ANSIA/WWA C906, ASTM F714, ASTM D3035, ASTM D3350 CELL CLASS PE 445574C/E, PPI (TR-4) PE 4710, ANS/INSP 61/14

**WATER SERVICE PIPES**

- COPPER PIPE STANDARD: 3/4" OR 1" TYPE "K" COPPER
- HDPE PIPE STANDARD: 1-1/2" OR 2" TYPE "K" HARD DRAWN COPPER
- HDPE PIPE STANDARD: CENCORE HDPE PIPE OR EQUAL - 3/4" THRU 2", SDR 9 CTS, HDPE 4710, ASTM D2239, ASTM D2737, ASTM D3350 CELL CLASS PE 445576C AND SHALL BE C03 PER ASTM F2263

**FIRE HYDRANT STANDARDS:** KENNEDY (GUARDIAN) 5-1/2" x 6" MECHANICAL JOINT, AWWA C502-18 (YELLOW); APPROVED ALTERNATE: MUELLER (CENTURION).

**RESILIENT SEATED (EPOXY COATED) GATE VALVE STANDARD:** 2" TO 12" AWWA C515 MUELLER, KENNEDY, AMERICAN FLOW CONTROL.

**BRASS SERVICE LINE FITTINGS STANDARD:** AWWA C800-94, FORD, A.Y. McDONALD, OR MUELLER CO. ONLY, 3/4" & 1" TAPS C.C. THREADS, FULL PORT, BALL STYLE CORPORATION & METER STOP FLARED FITTINGS. ALTERNATE: MUELLER 110 & FORD Q STYLE COMPRESSION FITTINGS.

**METER BOXES, 3/4" TO 1" SERVICES STANDARD:** METER BOX & LID: ARMORCAST POLYMER CONCRETE BOX (A600485) WITH A600484-H2 LID; BROOKS NO. 36MB WITH - 36SP COVER; DFW PLASTICS DFW486WBC4-12 BODY WITH DFW486WBC4-12-4MPT 63D NHK LID

**METER BOXES, 1-1/2" OR 2" SERVICES WITH METER SETTER:** ARMORCAST A600164PCX18 BOX (17" X 30" X 18" WITH SINGLE TOP MOUNT AMR/AMI COVER/LID); DFW PLASTICS DFW1730C4-18 BODY WITH DFW1730C4-4MPT LID WITH AMR PAD AND HOLE.

**METER BOXES, 1-1/2" OR 2" SERVICES WITHOUT METER SETTER:** ARMORCAST A600164PCX12 BOX (17" X 30" X 12" WITH SINGLE TOP MOUNT AMR/AMI COVER/LID); DFW PLASTICS DFW1324C4-12 BODY WITH DFW1324C4-12-4MPT 63D NHK.

**METER SETTERS, 1-1/2" OR 2" SERVICES:** FORD NO. VBH-87-12B-11-7

**VALVE BOXES STANDARD:** TYLER 6860 SCREW TYPE VALVE BOX WITH TYLER 5 1/4 DROP LID (PART NO. 145325) LID STAMPED "WATER".

**2" TAPPING SADDLES:** MUELLER (DB2A) DOUBLE STRAP, IRON PIPE THREAD. APPROVED ALTERNATE: ROMAC 202.

**LIVE (HOT) TAPPING SADDLES, TAP SIZE 4" AND LARGER STANDARD:** FOR ALL SIZES JCM 432, ALL STAINLESS.

**DUCTILE IRON FITTINGS STANDARD:** AWWA C110/C115/C153/C104, TYLER OR APPROVED EQUAL WITH 350 PSI PRESSURE RATING WHERE AVAILABLE OR 250 PSI PRESSURE RATING WHERE NOT AVAILABLE.

**RETAINER GLANDS STANDARD:** EBBA IRON MEGALUG (MJ PIPE), ROMAC GRIPRINGMOVE, OR U.S. PIPE FIELD LOK GASKETS.

**BUTTERFLY VALVE STANDARD 14" OR LARGER:** PRATT APPROVED ALTERNATE: KENNEDY

**DISTRIBUTION PUMPS STANDARD:** CORNELL. TRACER WIRE: 14 GAUGE, SOLID CORE, BLUE COATING

NO.	DATE	BY	DESIGN: ENG. DEPT.	DRAWN: CON.
4	5/30/02	RKB	CHECKED:	
5	9/1/03	SEH	APPROVED BY:	
6	4/17/13	SEH		
7	5/4/22	RKB	CITY ENGINEER	
8	11/23/22	RKB	CITY ENGINEER	

**STANDARD MATERIALS LIST FOR WATER**

NO. **400**  
ADOPTED  
DATE: \_\_\_\_\_  
SHEET OF \_\_\_\_\_

**HYDRANT**

**NOTES:**

- FIRE HYDRANT SHALL CONFORM TO AWWA C502-18 AND SHALL BE KENNEDY "GUARDIAN" OR MUELLER "CENTURION". FIRE HYDRANT SHALL BE MECHANICAL JOINT UNLESS OTHERWISE NOTED ON THE PLAN AND APPROVED BY THE ENGINEER.
- GATE VALVE SHALL BE RESILIENT SEAT, NON-RISING STEM CONFORMING TO AWWA C509-15 AND SHALL BE MUELLER, KENNEDY OR AMERICAN FLOW CONTROL.
- FIRE HYDRANT RESTRAINT SHALL BE MECHANICAL JOINT WITH MEGALUG RETAINER GLAND AND CONCRETE THRUST BLOCK WITH 3.6 S.F. BEARING AREA ON UNDISTURBED MATERIAL, AS SPECIFIED FOR A 90° BEND (SEE CITY STANDARD DETAIL NO. 402 THRUST BLOCKS).
- THRUST BLOCK AT MF TEE SHALL BE PLACED PER CITY STANDARD DETAIL NO. 402 FOR THRUST BLOCKS UNLESS OTHERWISE NOTED ON THE PLAN AND APPROVED BY THE CITY ENGINEER.
- PROVIDE 6 MIL. POLYETHYLENE SHEETING BETWEEN FITTINGS AND CONCRETE. LEAVE HYDRANT WEEP HOLES OPEN.
- FIRE HYDRANT SHALL BE BACKFILLED WITH 3/4"-0 CRUSHED ROCK CONFORMING TO SECTION 00641 OF THE MOST CURRENT VERSION OF THE OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION AND SHALL BE COMPACTED TO 95% MAXIMUM DENSITY.
- DRAIN ROCK SHALL BE 1" OPEN GRADED AND SHALL BE PLACED TO A POINT 6" ABOVE THE HYDRANT DRAIN.
- EXTENSIONS (SPOOLS) FOR FIRE HYDRANT HEIGHT ADJUSTMENT WILL NOT BE PERMITTED.
- WHERE NO SIDEWALK IS INSTALLED, THE CONTRACTOR SHALL INSTALL THE HYDRANT SO THAT THE STEAMER PORT IS 6 FEET FROM THE FACE OF CURB.
- WHERE SIDEWALK IS GREATER THAN 5' WIDE, THE CONTRACTOR SHALL INSTALL NEW FIRE HYDRANT 1'-0" BEHIND BACK OF WALK.
- REPLACE STEAMER PORT CAP WITH A HARRINGTON HPH450-45NH/CAP ADAPTER AND STAINLESS STEEL CABLE. 1'-0" BEHIND BACK OF WALK.

NO.	DATE	BY	DESIGN: ENG. DEPT.	DRAWN: CON.
1	8/22/00	RKB	CHECKED:	
2	5/30/02	RKB	APPROVED BY:	
3	11/17/03	SEH		
4	01/02/16	RKB	CITY ENGINEER	
5	11/08/22	RKB	CITY ENGINEER	

**FIRE HYDRANT ASSEMBLY**

NO. **401**  
ADOPTED  
DATE: \_\_\_\_\_  
SHEET OF \_\_\_\_\_

**NOTES:**

- THE FIRE HYDRANT SHALL BE PLACED SUCH THAT THE FRONT PORT IS FLUSH WITH THE BACK OF SIDEWALK.
- THE DISTANCE BETWEEN THE BOTTOM BREAKAWAY FLANGE AND TOP OF SIDEWALK SHALL BE 3 INCHES.
- THE DISTANCE BETWEEN THE TOP OF THE TAPER TO THE DISCHARGE PORT CAP SHALL BE A MINIMUM OF 3 FEET.

NO.	DATE	BY	DESIGN: ENG. DEPT.	DRAWN: CON.
1	08/16/04	LW	CHECKED:	
			APPROVED BY:	
			CITY ENGINEER	
			DATE:	

**FIRE HYDRANT PLACEMENT STANDARD SIDEWALK**

NO. **401B**  
ADOPTED  
DATE: \_\_\_\_\_  
SHEET OF \_\_\_\_\_

**NOTES:**

- VALVE BOXES SHALL BE CENTERED DIRECTLY OVER THE VALVE NUT AND SHALL BE PLACED IN A VERTICAL POSITION.
- VALVE BOX TOP SHALL BE ADJUSTED TO MEET FINISHED GRADE.
- VALVE BOX BOTTOM SHALL BE AS SPECIFIED ABOVE. PVC OR COUPLERS WILL NOT BE PERMITTED.
- VALVE BOX TOP AND BOTTOM OVERLAP SHALL BE A MINIMUM OF 7 INCHES.

NO.	DATE	BY	DESIGN: ENG. DEPT.	DRAWN: CON.
			CHECKED: RKB	
			APPROVED BY:	
			CITY ENGINEER	
			DATE:	

**WATER VALVE BOX**

NO. **408**  
ADOPTED  
DATE: \_\_\_\_\_  
SHEET OF \_\_\_\_\_

**NOTES:**

- Concrete splash pad necessary where water enters and/or exits facility.
- For stormwater facilities, install class 50 Rip Rap 12" deep & extend 2' into facility to transition splash pad to topsoil.
- Reference ODOT Standard Drawing RD 700. Use 1'-0" wide gutters, typical.

**1 CURB CUT SPILLWAY AT RAIN GARDENS**  
SCALE: NONE

**Water**

18", 24", 30" Headwall  
Model: HEADWALL

**2 CONCRETE HEADWALL (1)**  
SCALE: NONE

**Headwall**  
Weight - See Table  
Item# - See Table

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**Water**

18", 24", 30" Headwall  
Model: HEADWALL

**3 CONCRETE HEADWALL (2)**  
SCALE: NONE

Pipe I.D.	"A"	"B"	"C"	"D"	"E"	"F"	"G"	Weight	Item#
18"	35"	24"	48"	30"	7"	18"	30"	2170 Lbs.	1221020
24"	42"	36"	69"	36"	9"	18"	28"	4000 Lbs.	1221040
30"	49"	60"	111"	41"	17"	18"	27"	4885 Lbs.	1221060

**SPECIFICATIONS:**

- Concrete: Class "C" with design strength of 5000 PSI at 28 days.
- Steel reinforcement: ASTM A-615 Grade 60 or ASTM A-497 Welded wire fabric.
- Loading: Designed for H20 Loading.
- C.I. Castings: ASTM A48, Class 3035.
- All exposed Corners shall be Chamfered 3/4".

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**REVISIONS:**

No.	DESCRIPTION	DATE
1	ADDENDUM 1	12/18
2	ADDENDUM 2	1/10

**CLEVELAND STREET  
CAPITAL IMPROVEMENT PROJECT**

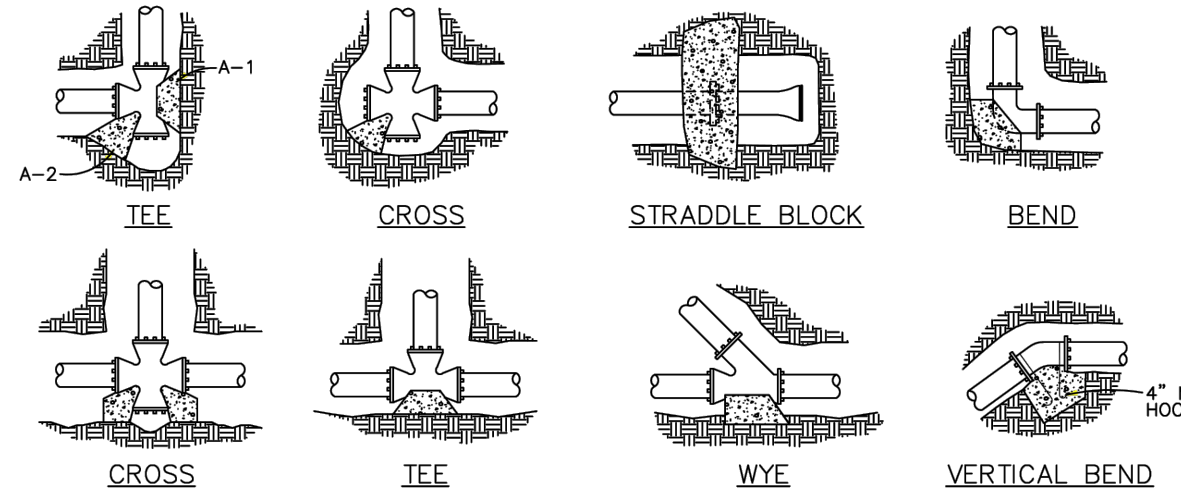
DETAIL SHEET 3

Sheet No. **C6.03**

DRAWN BY: MBW  
CHECKED BY: AWMS  
DATE: 12/12/2024  
JOB No. 23-001C

(HORIZONTAL) BEARING AREA OF THRUST BLOCKS IN SQUARE FEET										(VERTICAL) VOLUME OF THRUST BLOCK IN CUBIC YARDS			
FITTING SIZE	TEE, WYE, DEAD END AND HYDRANT	STRADDLE BLOCK	90° BEND PLUGGED CROSS	TEE PLUGGED ON RUN	45° BEND	22-1/2° BEND	11-1/4° BEND	90° BEND	45° BEND	22-1/2° BEND	11-1/4° BEND		
4	1.0	1.6	1.4	1.9	1.4	1.0	---	---	---	---	---		
6	2.1	3.7	3.0	4.3	3.0	1.6	1.0	---	1.3	---	---		
8	3.8	6.5	5.3	7.6	5.4	2.9	1.5	1.0	2.3	1.1	---		
10	5.9	10.2	8.4	11.8	8.4	4.6	2.4	1.2	3.7	1.8	---		
12	8.5	14.7	12.0	17.0	12.0	6.6	3.4	1.7	5.5	2.8	1.2		
14	11.5	---	16.3	23.0	16.3	8.9	4.6	2.3	7.6	3.9	1.7		
16	15.0	26.1	21.3	30.0	21.3	11.6	6.0	3.0	9.9	5.1	2.3		
18	19.0	---	27.0	36.0	27.0	14.6	7.6	3.8	---	---	---		
20	23.5	40.8	33.3	47.0	33.3	18.1	9.4	4.7	---	---	---		
24	34.0	58.8	48.0	68.0	48.0	26.2	13.6	6.8	---	---	---		

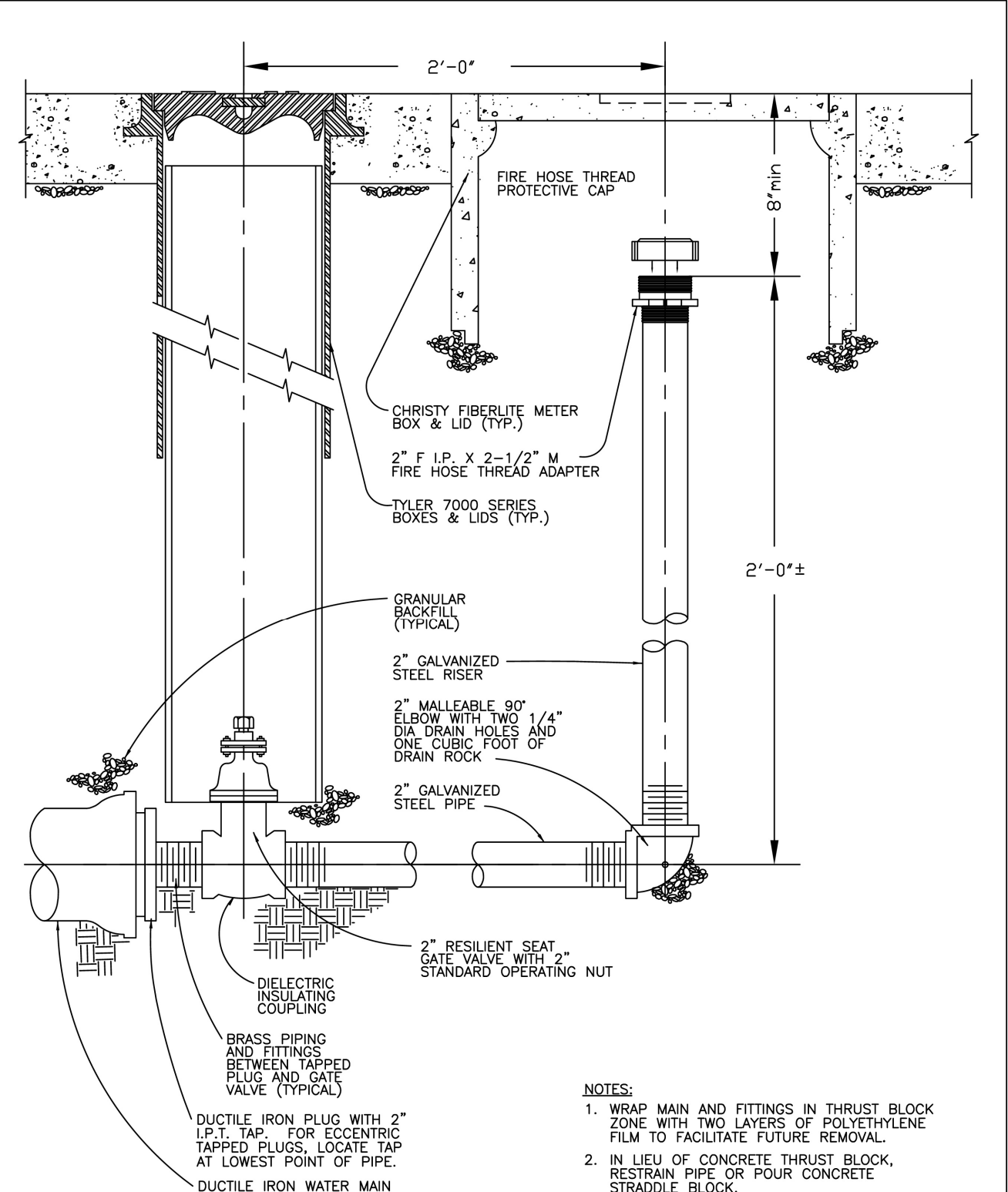
NOTES:  
 1. ABOVE BEARING AREAS BASED ON TEST PRESSURE OF 150 PSI AND AN ALLOWABLE SOIL BEARING STRESS OF 2000 POUNDS PER SQUARE FOOT. TO COMPUTE BEARING AREAS FOR DIFFERENT TEST PRESSURES AND SOIL BEARING STRESSES, USE THE FOLLOWING EQUATION:  
 BEARING AREA = ( TEST PRESSURE / 150 ) x ( 2000 / SOIL BEARING STRESS ) x ( TABLE VALUE )  
 2. ABOVE VOLUMES BASED ON TEST PRESSURE OF 150 PSI AND THE WEIGHT OF CONCRETE = 4050 POUNDS PER CUBIC YARD. TO COMPUTE FOR DIFFERENT TEST PRESSURES, USE THE FOLLOWING EQUATION:  
 VOLUME = ( TEST PRESSURE / 150 ) x ( TABLE VALUE )



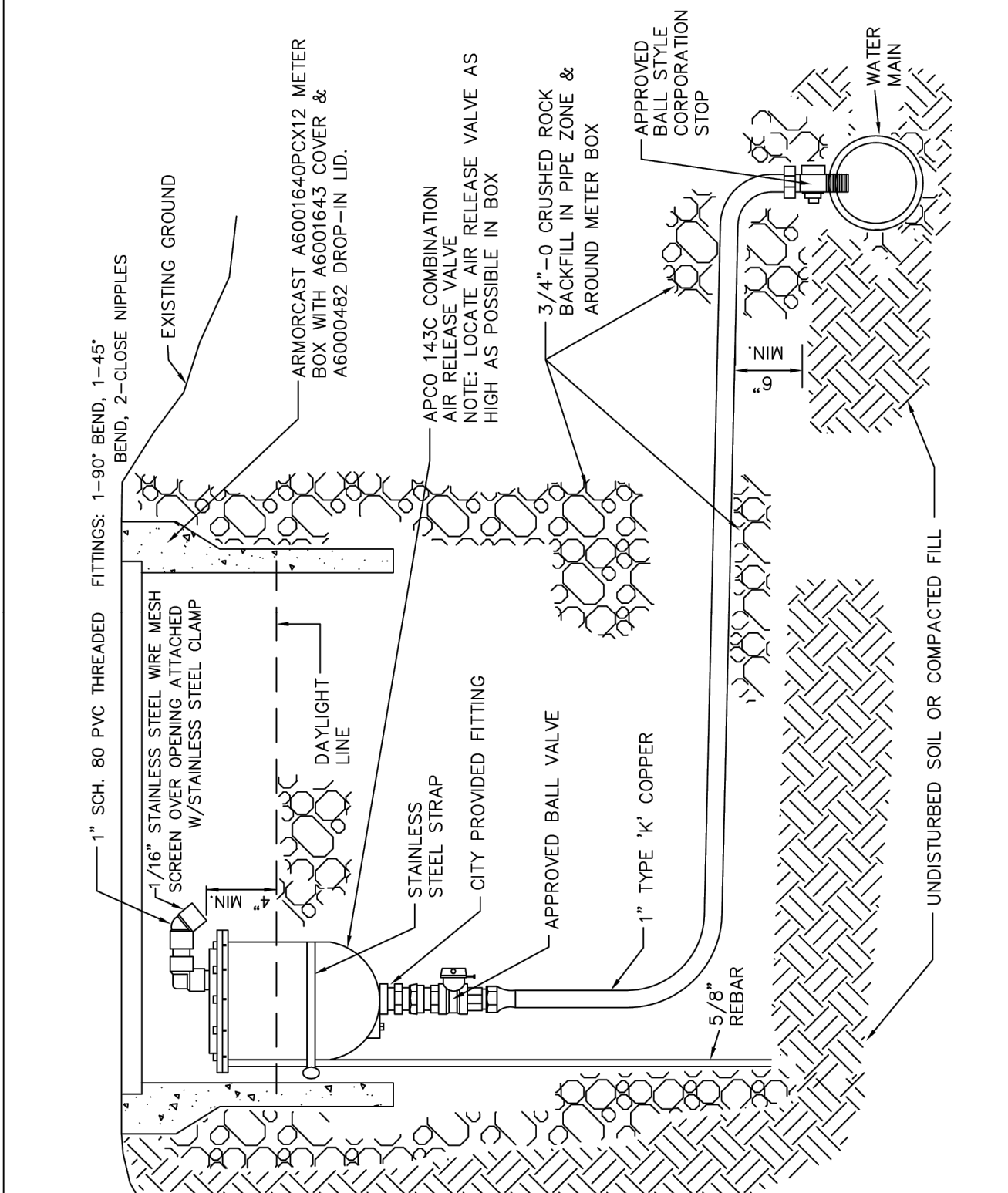
NOTES:  
 1. CONCRETE BLOCKING TO BE POURED AGAINST UNDISTURBED EARTH.  
 2. ALL CONCRETE TO BE CLASS 2400 MINIMUM.  
 3. INSTALL ISOLATION MATERIAL BETWEEN PIPE AND/OR FITTINGS BEFORE POURING CONCRETE BLOCKING.  
 4. CONCRETE SHALL BE KEPT CLEAR OF ALL JOINTS AND ACCESSORIES.  
 5. TIE RODS SHALL BE DEFORMED GALVANIZED COLD ROLLED STEEL, 40000 PSI TENSILE STRENGTH.

RODS FOR VERTICAL BENDS		
FITTING SIZE	ROD SIZE	EMBEDMENT
12" AND LESS	#6	30"
14"-16"	#8	36"

REVISIONS	DESIGN: ENG. DEPT		<b>THRUST BLOCKING</b>	<b>No. 402</b>
NO. DATE BY	DRAWN: CDN			
	CHECKED:			
	APPROVED BY:			
	CITY ENGINEER DATE:			
				DATE: _____ SHEET OF _____



REVISIONS	DESIGN: ENG. DEPT		<b>TEMPORARY 2\"/&gt; </b>	<b>No. 405</b>
NO. DATE BY	DRAWN: CDN			
	CHECKED:			
	APPROVED BY:			
	CITY ENGINEER DATE:			
				DATE: _____ SHEET OF _____



REVISIONS	DESIGN: ENG. DEPT		<b>1\"/&gt; </b>	<b>No. 406</b>
NO. DATE BY	DRAWN: CDN			
	CHECKED:			
	APPROVED BY:			
	CITY ENGINEER DATE:			
				DATE: _____ SHEET OF _____

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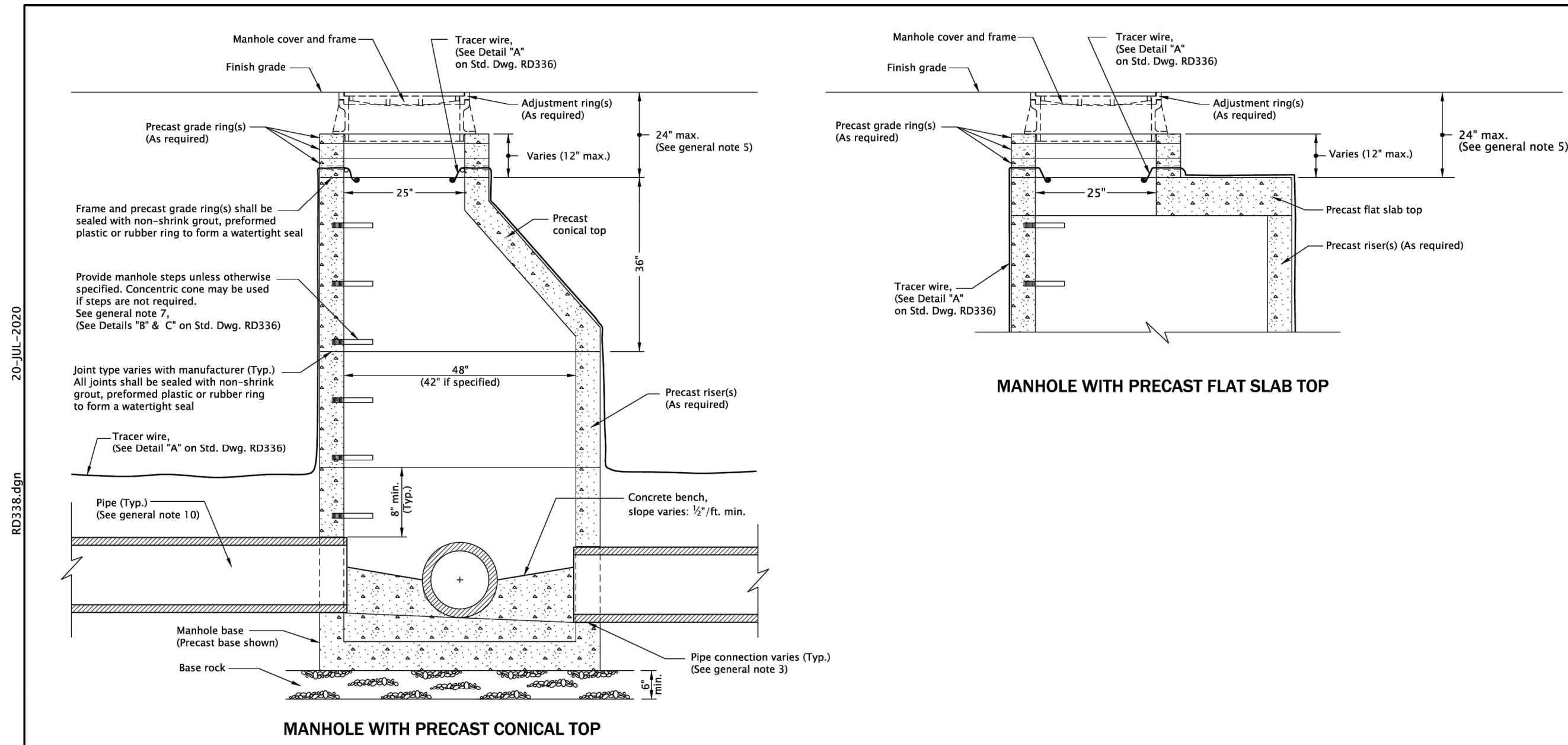
REVISIONS:		
No.	DESCRIPTION	DATE
1	ADDENDUM 1	12/18
2	ADDENDUM 2	1/10

**CLEVELAND STREET CAPITAL IMPROVEMENT PROJECT**

DETAIL SHEET 4

Sheet No. **C6.04**

DRAWN BY: MBW	CHECKED BY: AWMS	DATE: 12/12/2024	JOB No. 23-001C
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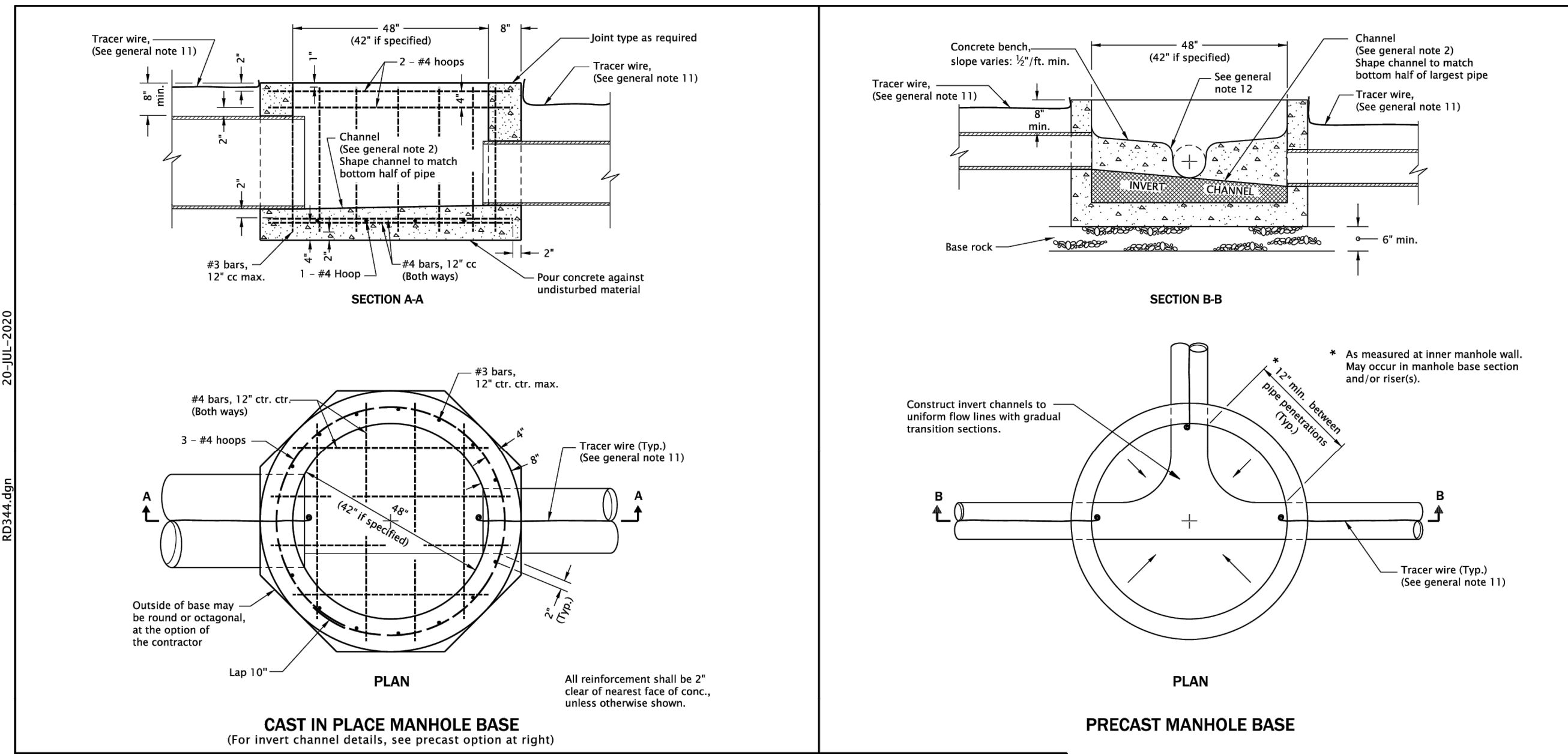
**GENERAL NOTES FOR ALL DETAILS ON THIS SHEET:**

- All precast products shall conform to requirements of ASTM C478.
- Standard precast manhole section diameter shall be 48". Use 42" if specified by the Engineer.
- See Std. Dwg. RD345 for pipe to manhole connections.
- See Std. Dwg. RD344 for manhole base section.
- Adjust 24" maximum.
- All connecting pipes shall have a tracer wire, or approved alternate.
- See Std. Dwg. RD336 for manhole steps.
- See Std. Dwg. RD336 for details not shown.
- See Std. Dwg. RD356 for manhole covers and frames, manhole adjustment rings, etc.
- Max. pipe diameter varies with pipe material.
- See Std. Dwg. RD342 for shallow manholes.
- Location, elevation, diameter, slope, and number of pipe(s) varies, see project plans.
- This detail limited to interior drop of 24". See Std. Dwg. RD350 or RD352 for drop manhole details for drops in excess of 24".

*The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without first consulting a Registered Professional Engineer.*

**OREGON STANDARD DRAWINGS**  
**STANDARD**  
**SANITARY SEWER MANHOLE**  
 2024  
 DATE: \_\_\_\_\_ REVISION DESCRIPTION: \_\_\_\_\_  
 CALC. NO. N/A SDR DATE: 21-JUN-2019 **RD338**

Effective Date: December 1, 2024 – May 31, 2025



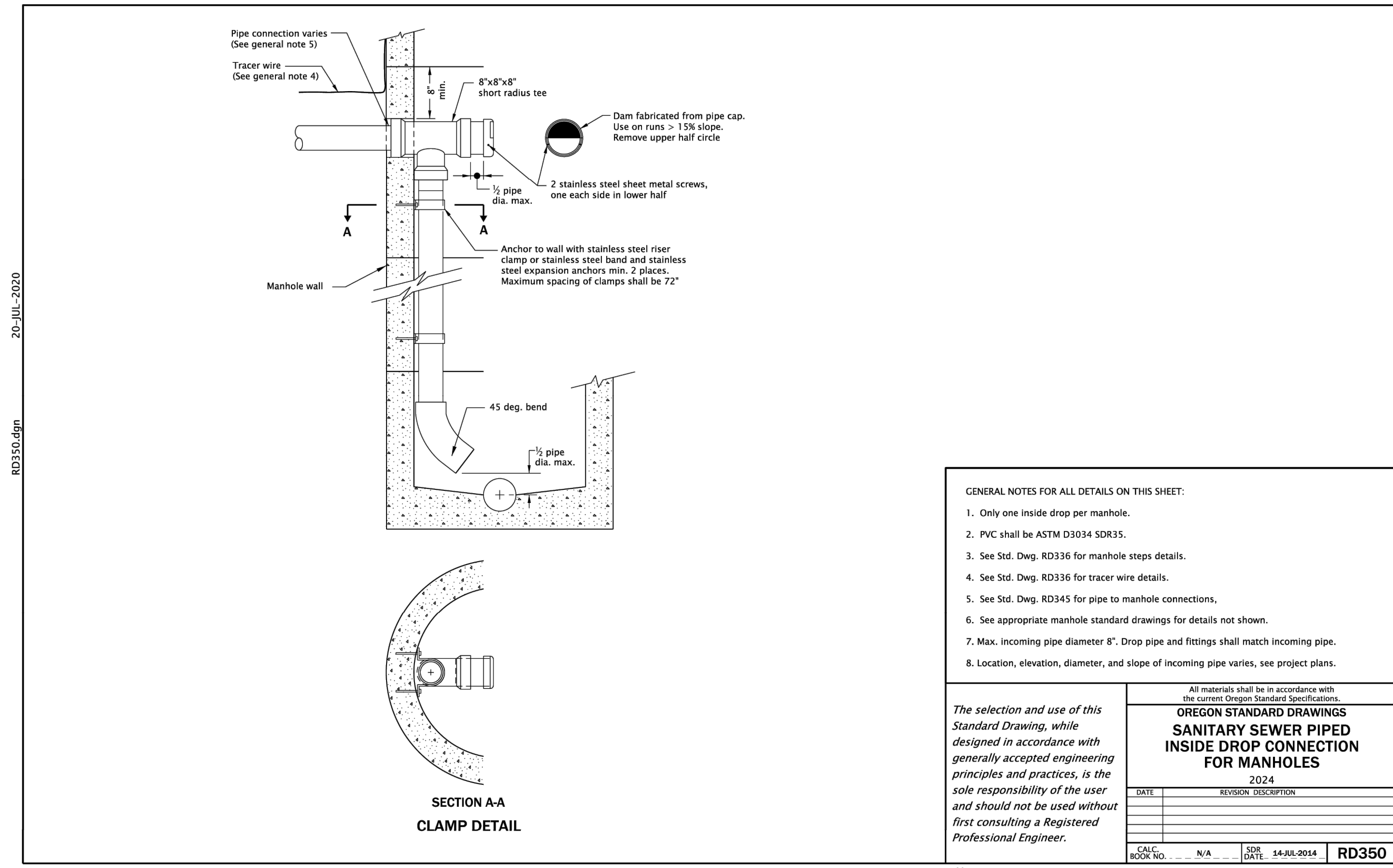
**GENERAL NOTES FOR ALL DETAILS ON THIS SHEET:**

- All concrete shall be commercial grade concrete.
- Channels shall be constructed to provide smooth slopes and radii to outlet pipe.
- Bases may be precast or cast in place.
- Max. pipe diameter varies with pipe material.
- Use on 42" and 48" diameter manhole.
- Extend pipe into manhole and grout smooth. Pipe(s) may extend 2" max. beyond the interior manhole wall.
- Location, elevation, diameter, slope, and number of pipe(s) varies, see project plans.
- All precast products shall conform to the requirements of ASTM C478.
- See Std. Dwg. RD345 for pipe to manhole connections.
- See Std. Dwg. RD336 for manhole steps details.
- See Std. Dwg. RD336 for tracer wire details.
- At spring line of pipe, extend channel up to crown line on 1:2:1 batter.

*The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without first consulting a Registered Professional Engineer.*

**OREGON STANDARD DRAWINGS**  
**STANDARD MANHOLE**  
**BASE SECTION**  
 2024  
 DATE: \_\_\_\_\_ REVISION DESCRIPTION: \_\_\_\_\_  
 CALC. NO. N/A SDR DATE: 14-JUL-2014 **RD344**

Effective Date: December 1, 2024 – May 31, 2025



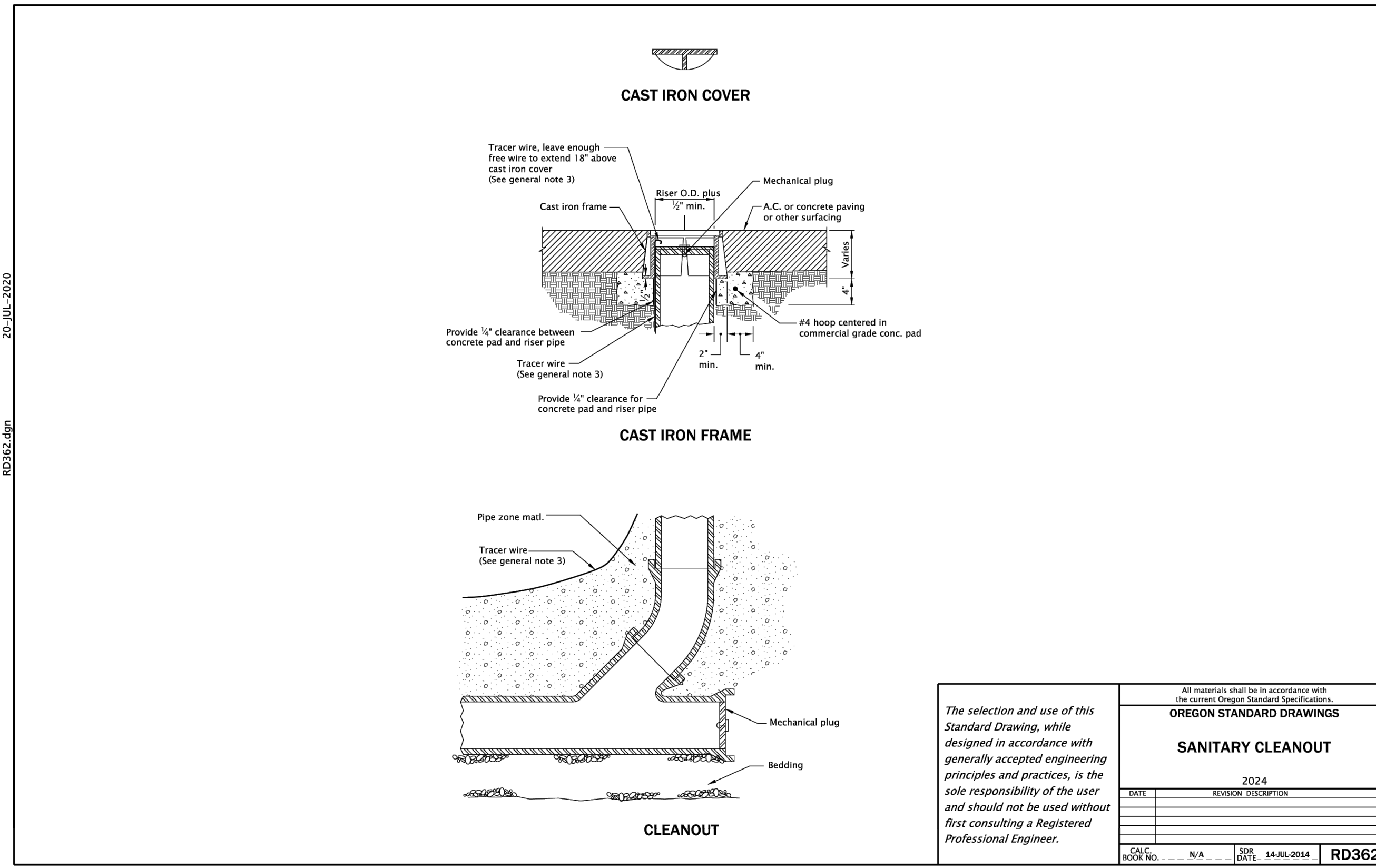
**GENERAL NOTES FOR ALL DETAILS ON THIS SHEET:**

- Only one inside drop per manhole.
- PVC shall be ASTM D3034 SDR35.
- See Std. Dwg. RD336 for manhole steps details.
- See Std. Dwg. RD336 for tracer wire details.
- See Std. Dwg. RD345 for pipe to manhole connections.
- See appropriate manhole standard drawings for details not shown.
- Max. incoming pipe diameter 8". Drop pipe and fittings shall match incoming pipe.
- Location, elevation, diameter, and slope of incoming pipe varies, see project plans.

*The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without first consulting a Registered Professional Engineer.*

**OREGON STANDARD DRAWINGS**  
**SANITARY SEWER PIPED**  
**INSIDE DROP CONNECTION**  
**FOR MANHOLES**  
 2024  
 DATE: \_\_\_\_\_ REVISION DESCRIPTION: \_\_\_\_\_  
 CALC. NO. N/A SDR DATE: 14-JUL-2014 **RD350**

Effective Date: December 1, 2024 – May 31, 2025



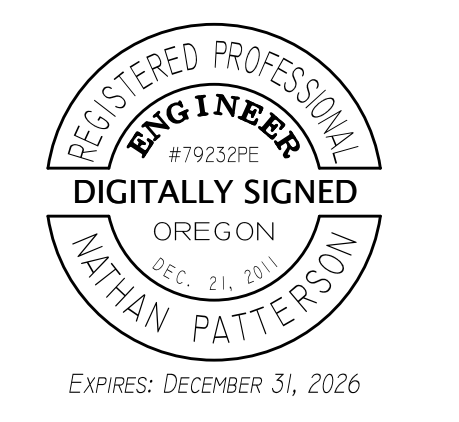
**GENERAL NOTES FOR ALL DETAILS ON THIS SHEET:**

- Only one inside drop per manhole.
- PVC shall be ASTM D3034 SDR35.
- See Std. Dwg. RD336 for manhole steps details.
- See Std. Dwg. RD336 for tracer wire details.
- See Std. Dwg. RD345 for pipe to manhole connections.
- See appropriate manhole standard drawings for details not shown.
- Max. incoming pipe diameter 8". Drop pipe and fittings shall match incoming pipe.
- Location, elevation, diameter, and slope of incoming pipe varies, see project plans.

*The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without first consulting a Registered Professional Engineer.*

**OREGON STANDARD DRAWINGS**  
**SANITARY CLEANOUT**  
 2024  
 DATE: \_\_\_\_\_ REVISION DESCRIPTION: \_\_\_\_\_  
 CALC. NO. N/A SDR DATE: 14-JUL-2014 **RD362**

Effective Date: December 1, 2024 – May 31, 2025



REVISIONS:		
No.	DESCRIPTION	DATE
1	ADDENDUM 1	12/18
2	ADDENDUM 2	1/10

**CLEVELAND STREET**  
**CAPITAL IMPROVEMENT PROJECT**

DETAIL SHEET 5

Sheet No. **C6.05**

DRAWN BY: MBW CHECKED BY: AWMS DATE: 12/12/2024 JOB No. 23-001C