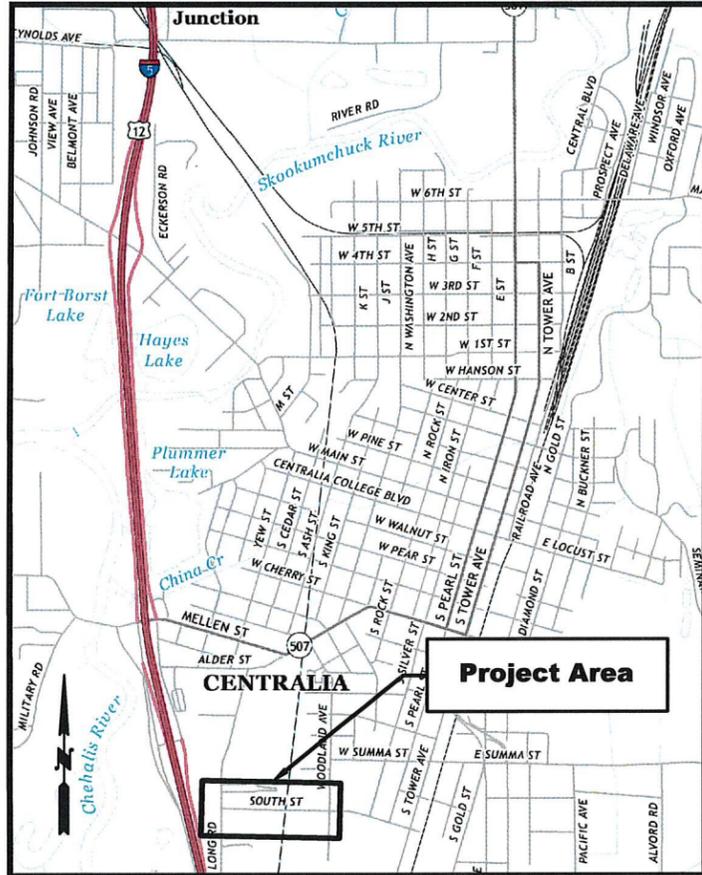


CITY OF CENTRALIA S YEW ST AND SOUTH ST IMPROVEMENTS PW 2025-07

"CALL UNDERGROUND LOCATE 2 BUSINESS DAYS BEFORE YOU DIG AT 811"



VICINITY MAP

GENERAL
G01 COVER SHEET

DEMOLITION

DM01	STA 1+00 TO 3+75	S YEW ST	PLAN
DM02	STA 3+75 TO 6+50	S YEW ST	PLAN
DM03	STA 100+00 TO 102+75	SOUTH ST	PLAN
DM04	STA 102+75 TO 105+50	SOUTH ST	PLAN
DM05	STA 105+50 TO 108+25	SOUTH ST	PLAN
DM06	STA 108+25 TO 111+00	SOUTH ST	PLAN
DM07	STA 111+00 TO 113+75	SOUTH ST	PLAN
DM08	STA 113+75 TO 116+00	SOUTH ST	PLAN
DM09	STA 116+00 TO 117+50	SOUTH ST	PLAN
DM10	WOODLAND STORM POND		PLAN
DM11	STA 200+00 TO 202+75	WOODLAND AVE	PLAN
DM12	STA 202+75 TO 205+50	WOODLAND AVE	PLAN
DM13	STA 205+50 TO 208+25	WOODLAND AVE	PLAN
DM14	STA 208+25 TO 211+00	WOODLAND AVE	PLAN

GRADING AND DRAINAGE

GD01	STA 1+00 TO 3+75	S YEW ST	PLAN AND PROFILE
GD02	STA 3+75 TO 6+50	S YEW ST	PLAN AND PROFILE
GD03	STA 100+00 TO 102+75	SOUTH ST	PLAN AND PROFILE
GD04	STA 102+75 TO 105+50	SOUTH ST	PLAN AND PROFILE
GD05	STA 105+50 TO 108+25	SOUTH ST	PLAN AND PROFILE
GD06	STA 108+25 TO 111+00	SOUTH ST	PLAN AND PROFILE
GD07	STA 111+00 TO 113+75	SOUTH ST	PLAN AND PROFILE
GD08	STA 113+75 TO 116+00	SOUTH ST	PLAN AND PROFILE
GD09	STA 116+00 TO 117+50	SOUTH ST	PLAN AND PROFILE
GD10	STA 200+00 TO 202+75	WOODLAND AVE	PLAN AND PROFILE
GD10	STA 202+75 TO 205+00	WOODLAND AVE	PLAN AND PROFILE

STORM DETAILS

DD01	GENERAL NOTES		
	TYPE-1 CATCH BASIN OUTSIDE PAVEMENT DETAIL 9-02		
DD02	TYPE-1 CATCH BASIN IN PAVEMENT DETAIL 9-01		
	INLET PROTECTION DETAIL 9-06		
DD03	SWALE DETAIL 9-13		
	GRASS SEED DETAIL 9-12		
DD04	OUTFALL DETAIL		
	SPILLWAY OVERFLOW		

WATER

WT01	STA 0+00 TO 2+75	YEW ST	PLAN
WT02	STA 2+75 TO 5+50	YEW ST	PLAN
WT03	STA 10+00 TO 12+65	SOUTH ST	PLAN

WATER DETAILS

WD01	GENERAL NOTES		
WD02	HYDRANT DETAIL 2-12		
	VALVE BOX DETAIL 2-09		
WD03	TYPICAL METER DETAIL 2-01		
	3/4" METER DETAIL 2-02		
WD04	THRUST BLOCKING DETAIL 2-10		
	THRUST LOAD DETAIL 2-18		

LIGHTING

LT01	STA 1+00 TO 3+75	YEW ST	PLAN
LT02	STA 3+75 TO 6+50	YEW ST	PLAN
LT03	STA 100+00 TO 102+75	SOUTH ST	PLAN
LT04	STA 102+75 TO 105+50	SOUTH ST	PLAN
LT05	STA 105+50 TO 108+25	SOUTH ST	PLAN
LT06	STA 108+25 TO 111+00	SOUTH ST	PLAN
LT07	STA 111+00 TO 113+75	SOUTH ST	PLAN
LT08	STA 113+75 TO 116+00	SOUTH ST	PLAN
LT09	STA 204+00 TO 206+75	WOODLAND AVE	PLAN
LT10	STA 206+75 TO 209+50	WOODLAND AVE	PLAN

LIGHTING DETAILS

LD01	GENERAL NOTES		
LD02	STREET LIGHT FOUNDATION DETAIL 7-01		
	STREET LIGHT POLE DETAIL 7-03		

PAVING, MARKING AND SIGNAGE

PV01	STA 1+00 TO 3+75	YEW ST	PLAN
PV02	STA 3+75 TO 6+50	YEW ST	PLAN
PV03	STA 100+00 TO 102+75	SOUTH ST	PLAN
PV04	STA 102+75 TO 105+50	SOUTH ST	PLAN
PV05	STA 105+50 TO 108+25	SOUTH ST	PLAN
PV06	STA 108+25 TO 111+00	SOUTH ST	PLAN
PV07	STA 111+00 TO 113+75	SOUTH ST	PLAN
PV08	STA 113+75 TO 116+00	SOUTH ST	PLAN
PV09	STA 116+00 TO 117+50	SOUTH ST	PLAN
PV10	CURB RAMPS		
PV11	ADA DETAIL		
PV12	STA 200+00 TO 202+75	WOODLAND AVE	PLAN
PV13	STA 202+75 TO 205+50	WOODLAND AVE	PLAN
PV14	STA 205+50 TO 208+25	WOODLAND AVE	PLAN

STREET DETAILS

SD01	STREET GENERAL NOTES		
	SIGN SCHEDULE		

SD02	OUTSIDE PAVEMENT RESTORATION 4-02		
	ASPHALT RESTORATION 4-03		
SD03	ROAD SECTION FUNCTIONALLY CLASSIFIED COLLECTOR 4-08		
	MODIFIED ROAD SECTION LOCAL ACCESS WITH SWALE		
SD04	MODIFIED ROAD SECTION LOCAL ACCESS		
SD05	DRIVEWAY TYPE 1		
	DRIVEWAY TYPE 2		
SD06	SIDEWALK 5-01		
	CURB AND GUTTER 5-02		
SD07	SIGN INSTALLATION		
	SURVEY MONUMENT 4-04		
SD08	RAILROAD MARKINGS		
SD09	CROSSWALK MARKINGS		
	SKIP WITH RPM		
SD10	TYPE 1 MAILBOX		
	TYPE 2 MAILBOX		

SEWER

G-001	COVER		
G-002	GENERAL NOTES AND LEGEND		
G-003	SURVEY CONTROL AND KEYMAP		
G-004	CIVIL ABBREVIATIONS AND NOTES		
G-005	CIVIL LEGEND		
G-006	CIVIL DETAILS - 1		
G-007	CIVIL DETAILS - 2		
G-008	CIVIL DETAILS - 3		
C-201	GRAVITY LINE	STA 1+00 TO 3+50	PLAN AND PROFILE
C-202	GRAVITY LINE	STA 3+50 TO 8+00	PLAN AND PROFILE
C-203	GRAVITY LINE	STA 8+00 TO 12+00	PLAN AND PROFILE
C-204	GRAVITY LINE	STA 12+00 TO 16+00	PLAN AND PROFILE
C-205	GRAVITY LINE	STA 16+00 TO END	PLAN AND PROFILE
C-206	TRENCHLESS CROSSING AND MONITORING PLAN		
C-207	TRENCHLESS CROSSING NOTES AND DETAILS		

PRIMARY POWER

E1001	COVER		
E1002A	PROJECT OVERVIEW WEST OF RAILROAD		
E1002B	PROJECT OVERVIEW EAST OF RAILROAD		
E1003	CABLE DIAGRAM		
E1004	CONDUIT DIAGRAM		
E1005	DESIGN TABLES		
E1006	DETAILED DRAWINGS		

SHEET INDEX

EXISTING:	PROPOSED:
<ul style="list-style-type: none"> — ROAD CENTER LINE — FENCE — RIGHT OF WAY — SS SEWER MAIN — GAS GAS — OH PWR OVERHEAD POWER — UG PWR UNDERGROUND POWER — ST LT STREET LIGHT 	<ul style="list-style-type: none"> — D STORM MAIN — W WATER MAIN ⊙ SEWER MANHOLE ⊙ STORM MANHOLE ⊙ WATER METER ⊙ WATER VALVE ⊙ SHRUB/SMALL TREE ⊙ DECIDUOUS TREE ✱ CONIFEROUS TREE ⊙ SIGN ⊙ SURVEY MONUMENT ⊙ STREET LIGHT ⊙ DOWN GUY ⊙ UTILITY POLE ⊙ STREET LIGHT CONTROLLER
<ul style="list-style-type: none"> REMOVE EXISTING ASPHALT 2" CSTC ROAD SECTION 16" CSBC FUNCTIONALLY CLASSIFIED 3" HMA DRIVEWAY 	<ul style="list-style-type: none"> REMOVE EXISTING CONCRETE 2" CSTC ROAD SECTION 8" CSBC MODIFIED LOCAL ACCESS
	<ul style="list-style-type: none"> ■ TYPE 1 CATCH BASIN ⊙ TYPE 2 CATCH BASIN ⊙ STREET LIGHT ■ JBOX ✱ HYDRANT ▶ THRUST BLOCK ⊙ WATER METER ⊙ WATER VALVE

LEGEND

CITY OF CENTRALIA
PUBLIC WORKS
ENGINEERING DEPT.
 1100 N. TOWER AVE
 CENTRALIA, WA 98531
 P: 360.330.7512 F: 360.330.7516
 CITYOFCENTRALIA.COM

COVER

S YEW ST AND SOUTH ST
IMPROVEMENTS

PW 2025-07

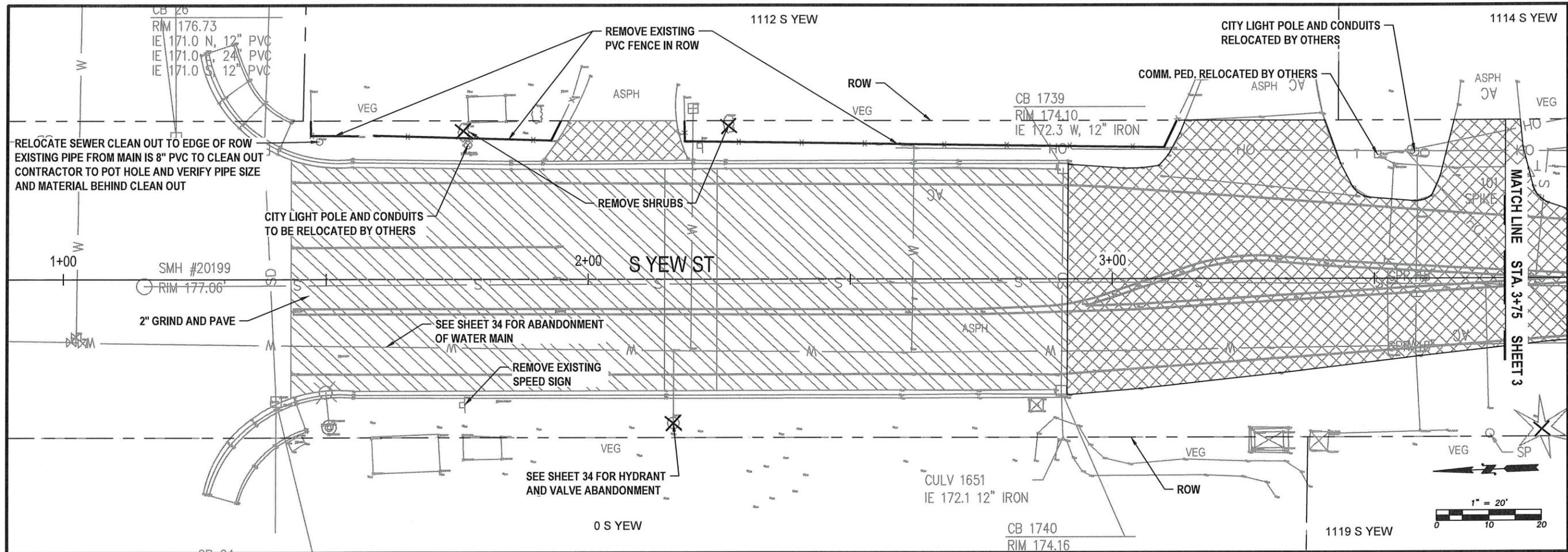


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May, 2025

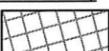
G01

1 OF 99



YEW ST - DEMOLITION
STA 1+00 TO 3+75
PLAN VIEW

ESTIMATED QUANTITIES (THIS SHEET)

	2" GRIND AND PAVE 692 SY		REMOVE ASPHALT 35 CY
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7. PROTECT ALL LANDSCAPE AREAS OUTSIDE OF THE WORK AREA. RESTORE WITH TOPSOIL/SEED UNLESS OTHERWISE NOTED.
8. INSTALL INLET PROTECTION IN EXISTING CATCH BASINS PRIOR TO COMMENCING WORK.
9. THE CONTRACTOR MAY COORDINATE WITH OTHER ADJACENT PROPERTY OWNERS FOR DISPOSAL OF TREES. HOWEVER, THE TREES, LIMBS, AND ALL OTHER DEBRIS SHALL BE REMOVED FROM THE RIGHT OF WAY AND DISPOSED OF AT THE CONTRACTOR'S EXPENSE.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TEMPORARY REGULATORY SIGNAGE ONCE EXISTING SIGNAGE HAS BEEN REMOVED.

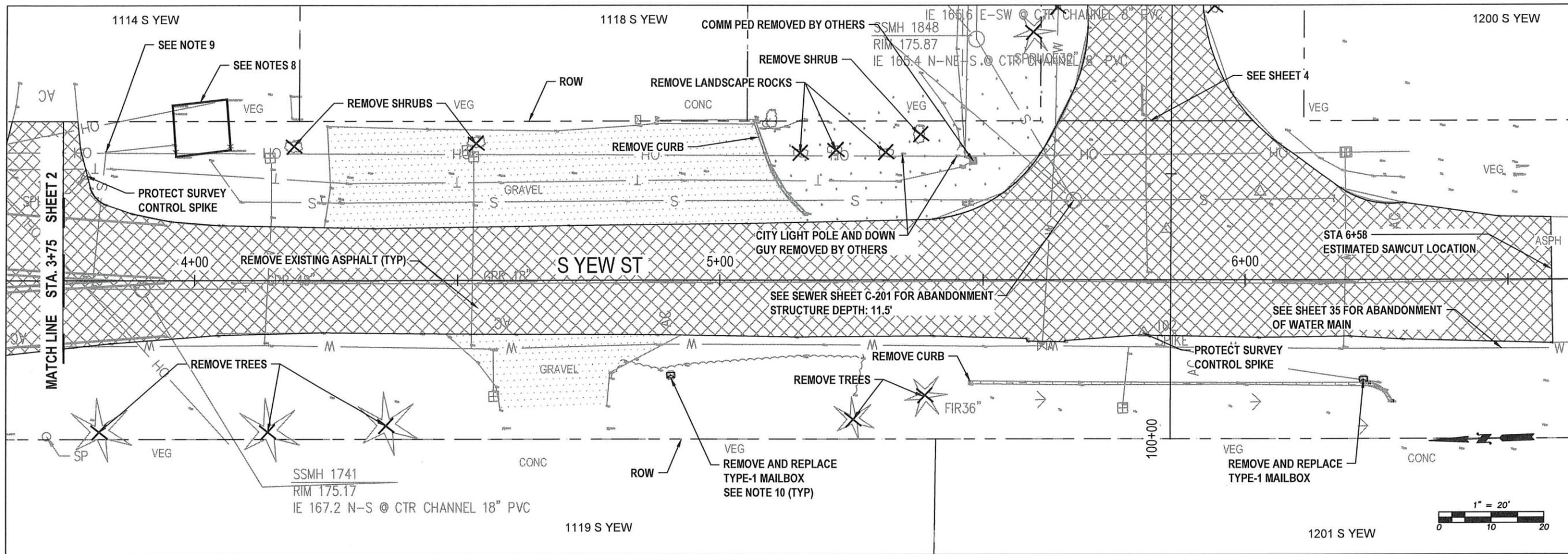


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DM01

2 OF 99



YEW ST - DEMOLITION
STA 3+75 TO 6+50
PLAN VIEW

ESTIMATED QUANTITIES (THIS SHEET)



REMOVE ASPHALT
68 CY (S YEW ONLY)

NOTES:

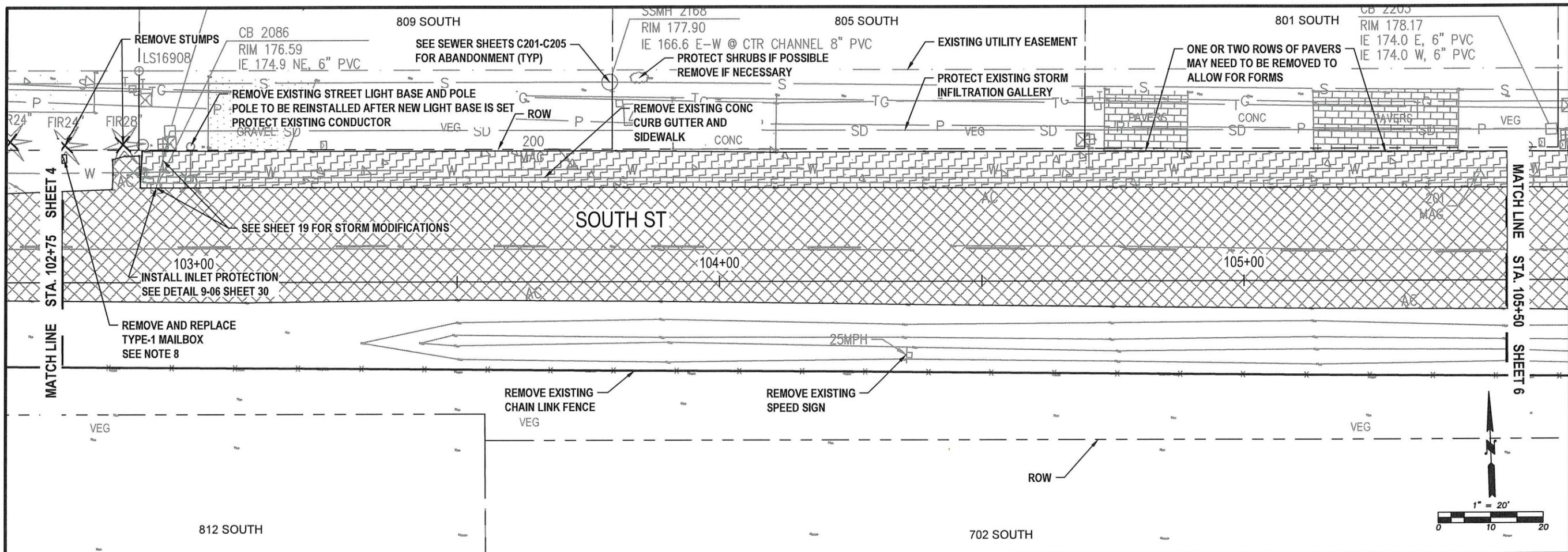
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7. PROTECT ALL LANDSCAPE AREAS OUTSIDE OF THE WORK AREA. RESTORE WITH TOPSOIL/SEED UNLESS OTHERWISE NOTED.
8. AFTER COMPLETION OF NEW SEWER MAIN, ABANDON EXISTING WET WELL MANHOLE PER WSDOT SPEC 7-05.3(2). THE CHAIN LINK FENCING, WET WELL LID, CONTROL PANEL AND PUMP SHALL BE PROTECTED AND RETURNED TO THE WASTEWATER DEPARTMENT. COORDINATE WITH THE CITY INSPECTOR. ALSO SEE SEWER SHEETS C-201 TO C205 FOR SEWER ABANDONMENT.
9. AFTER COMPLETION OF NEW SEWER MAIN, ABANDON WET WELL CONNECTION TO LATERAL BY REMOVING 6" X 4" TEE AND CAP 6" WITH GASKETED CAP. ALSO SEE SEWER SHEETS C-201 TO C205 FOR SEWER ABANDONMENT.
10. NEW TYPE-1 AND TYPE-2 MAILBOXES AND POST PER WSDOT DETAIL SHEET 76. COORDINATE WITH CITY INSPECTOR AND CENTRALIA US POSTAL SERVICE FOR EXACT PLACEMENT.
11. THE CONTRACTOR MAY COORDINATE WITH OTHER ADJACENT PROPERTY OWNERS FOR DISPOSAL OF TREES. HOWEVER, THE TREES, LIMBS, AND ALL OTHER DEBRIS SHALL BE REMOVED FROM THE RIGHT OF WAY AND DISPOSED OF AT THE CONTRACTOR'S EXPENSE.
12. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TEMPORARY REGULATORY SIGNAGE ONCE EXISTING SIGNAGE HAS BEEN REMOVED.



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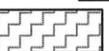
May, 2025

DM02



SOUTH ST - DEMOLITION
STA 102+75 TO 105+50
PLAN VIEW

ESTIMATED QUANTITIES (THIS SHEET)

	REMOVE CONCRETE 28 CY		REMOVE ASPHALT 57 CY
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PUBLIC WORKS
ENGINEERING DEPT.
 1100 N. TOWER AVE
 CENTRALIA, WA 98531
 P: 360.330.7512 F: 360.330.7516
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SOUTH ST
DEMOLITION
PLAN VIEW
 STA 102+75 TO 105+50

S YEW ST AND SOUTH ST
IMPROVEMENTS
 PW 2025-07

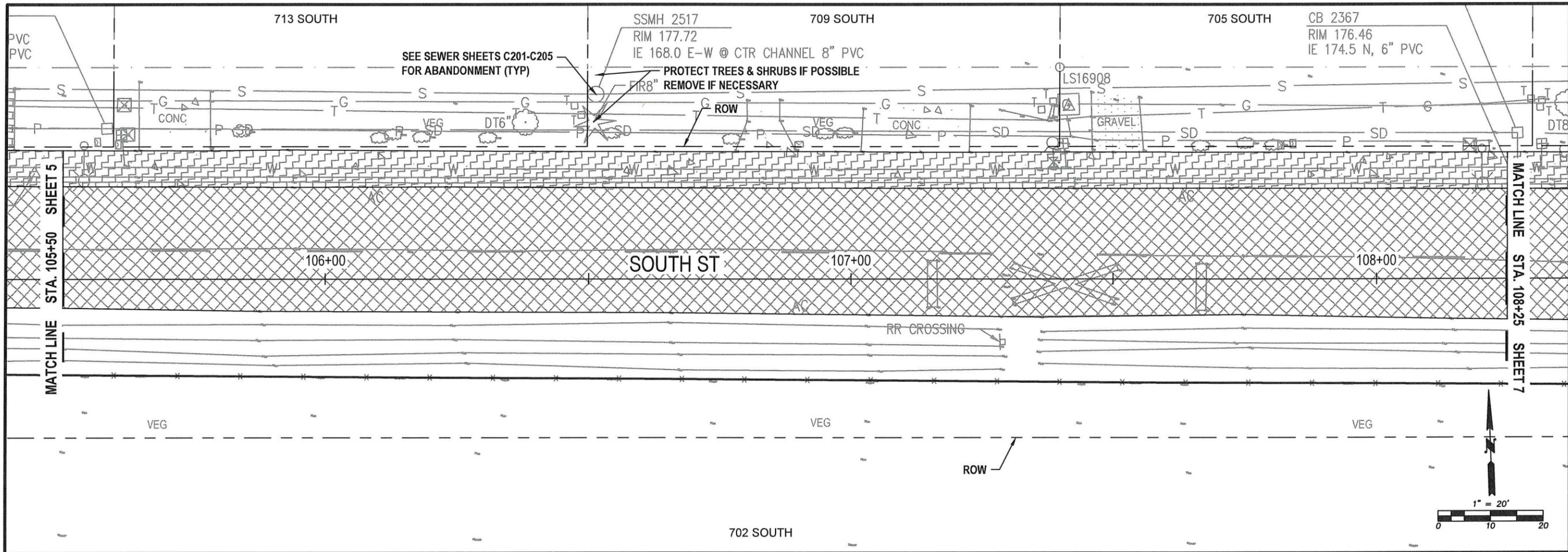


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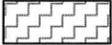
DM04

5 OF 99



SOUTH ST - DEMOLITION
STA 105+50 TO 108+25
PLAN VIEW

ESTIMATED QUANTITIES (THIS SHEET)

	REMOVE CONCRETE 30 CY		REMOVE ASPHALT 61 CY
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 CENTRALIA, WA 98531
 P: 360.330.7512 F: 360.330.7516
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SOUTH ST
DEMOLITION
PLAN VIEW
STA 105+50 TO 108+25

S YEW ST AND SOUTH ST
IMPROVEMENTS
PW 2025-07

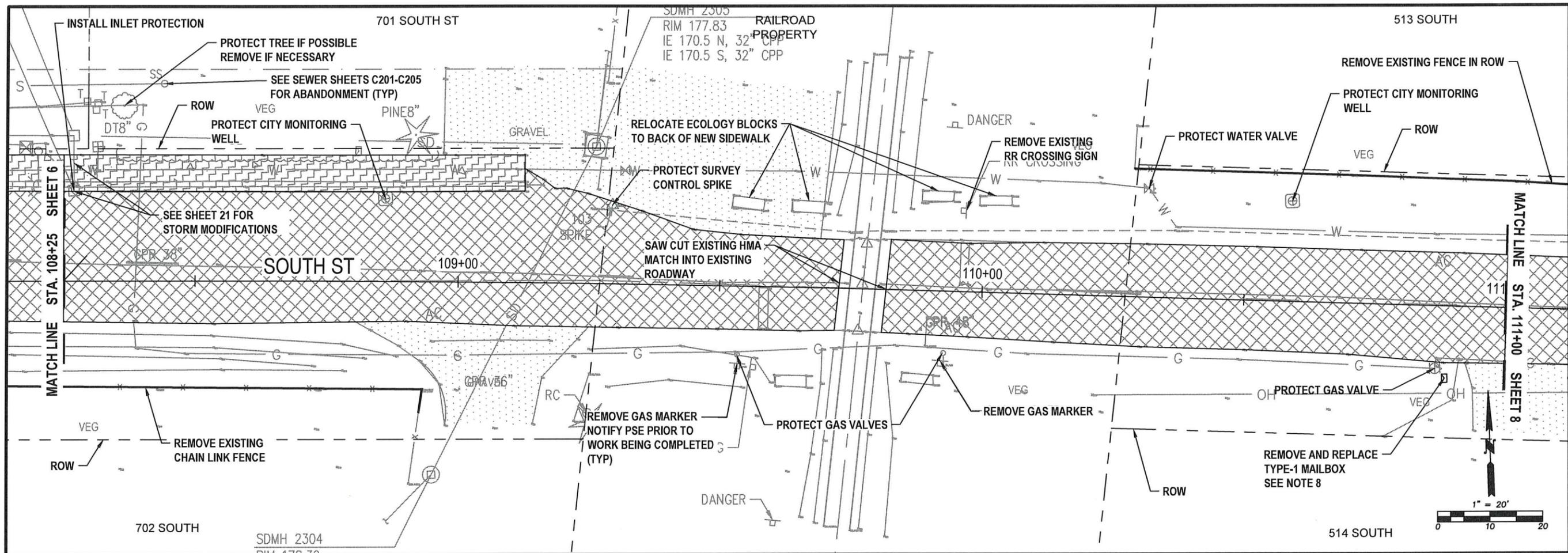


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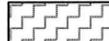
DM05

6 OF 99



SOUTH ST - DEMOLITION
STA 108+25 TO 111+00
PLAN VIEW

ESTIMATED QUANTITIES (THIS SHEET)

	REMOVE CONCRETE 10 CY		REMOVE ASPHALT 54 CY
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SOUTH ST
DEMOLITION
PLAN VIEW
 STA 108+25 TO 111+00

S YEW ST AND SOUTH ST
IMPROVEMENTS
 PW 2025-07

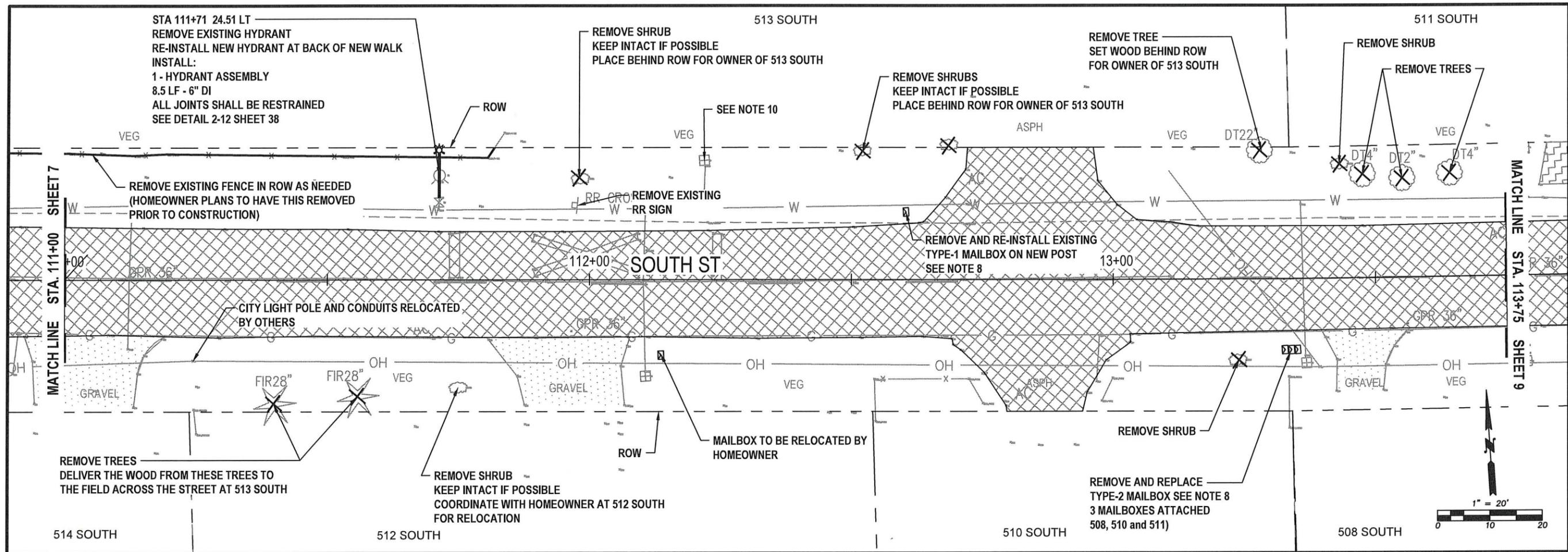


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 CHECKED BY: P. PAGE

May, 2025

DM06

7 OF 99



SOUTH ST - DEMOLITION
STA 111+00 TO 113+75
PLAN VIEW

ESTIMATED QUANTITIES (THIS SHEET)



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6. FENCES, BLOCKS AND ANY OTHER LANDSCAPE MATERIALS IN THE RIGHT OF WAY REQUIRED TO BE REMOVED TO COMPLETE THE WORK SHALL BE PLACED NEATLY ON THE ADJACENT PROPERTY. USE CARE WHEN REMOVING. TAKE PICTURES BEFORE/AFTER REMOVAL AND PROVIDE TO THE ENGINEER.
7. PROTECT ALL LANDSCAPE AREAS OUTSIDE OF THE WORK AREA. RESTORE WITH TOPSOIL/SEED UNLESS OTHERWISE NOTED.
8. NEW TYPE-1 AND TYPE-2 MAILBOXES AND POST PER WSDOT DETAIL SHEET 76. COORDINATE WITH CITY INSPECTOR AND CENTRALIA US POSTAL SERVICE FOR EXACT PLACEMENT.
9. THE CONTRACTOR MAY COORDINATE WITH OTHER ADJACENT PROPERTY OWNERS FOR DISPOSAL OF TREES. HOWEVER, THE TREES, LIMBS, AND ALL OTHER DEBRIS SHALL BE REMOVED FROM THE RIGHT OF WAY AND DISPOSED OF AT THE CONTRACTOR'S EXPENSE.
10. REPLACE EXISTING 3/4" WATER SERVICE AND SERVICE LINE TO THE CORP. POT HOLE EXISTING TO VERIFY FITTINGS NEEDED. INSTALL AT BACK OF NEW SIDEWALK. SEE SHEET 39 FOR DETAILS.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TEMPORARY REGULATORY SIGNAGE ONCE EXISTING SIGNAGE HAS BEEN REMOVED.

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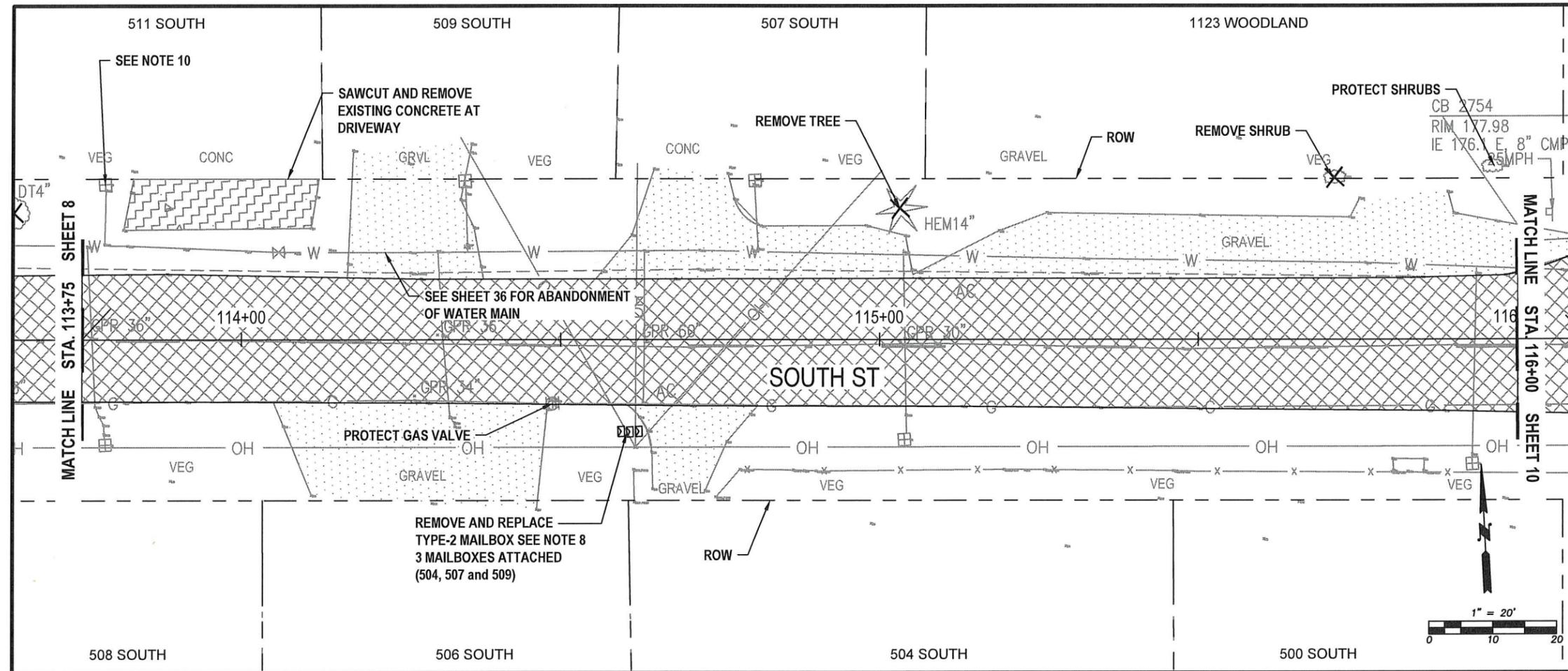
SOUTH ST
DEMOLITION
PLAN VIEW
 STA 111+00 TO 113+75

S YEW ST AND SOUTH ST
IMPROVEMENTS
 PW 2025-07



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 SURVEYED BY: J. DEBUSK
 CHECKED BY: P. PAGE

May, 2025
DM07
8 OF 99



SOUTH ST - DEMOLITION
STA 113+75 TO 116+00
PLAN VIEW

ESTIMATED QUANTITIES (THIS SHEET)

	REMOVE CONCRETE 4 CY		REMOVE ASPHALT 42 CY
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NOTES:

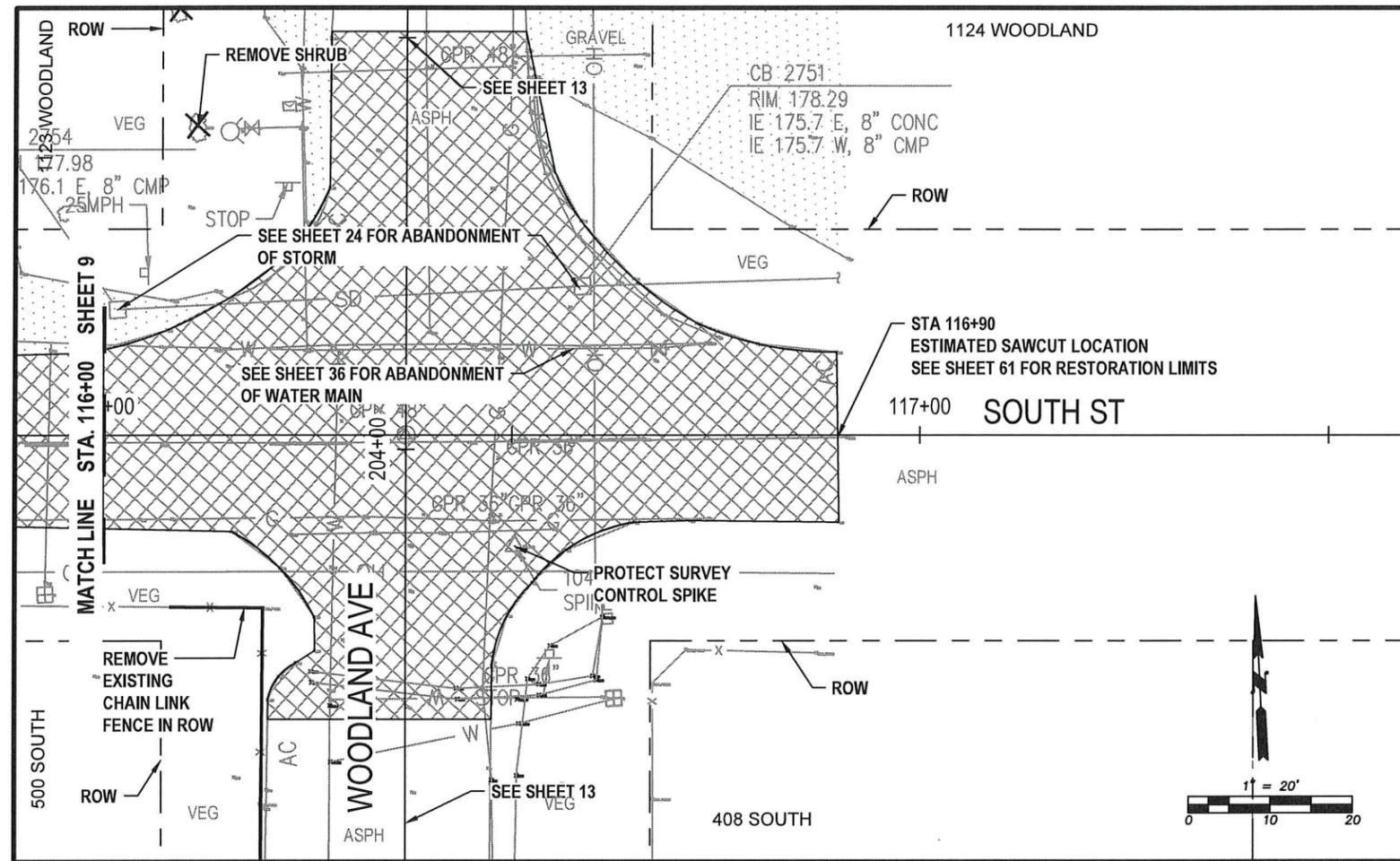
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3. ROADWAY MUST REMAIN OPEN TO LOCAL TRAFFIC BUT CAN BE CLOSED TO THROUGHTRAFFIC FOR DURATION OF THE PROJECT. SUBMIT TRAFFIC CONTROL PLAN FOR REVIEW A MINIMUM OF 5 WORKING DAYS IN ADVANCE OF WORK BEGINNING.
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DM08



**SOUT ST - DEMOLITION
STA 116+00 TO 117+50
PLAN VIEW**

ESTIMATED QUANTITIES (THIS SHEET)



REMOVE ASPHALT
38 CY

NOTES:

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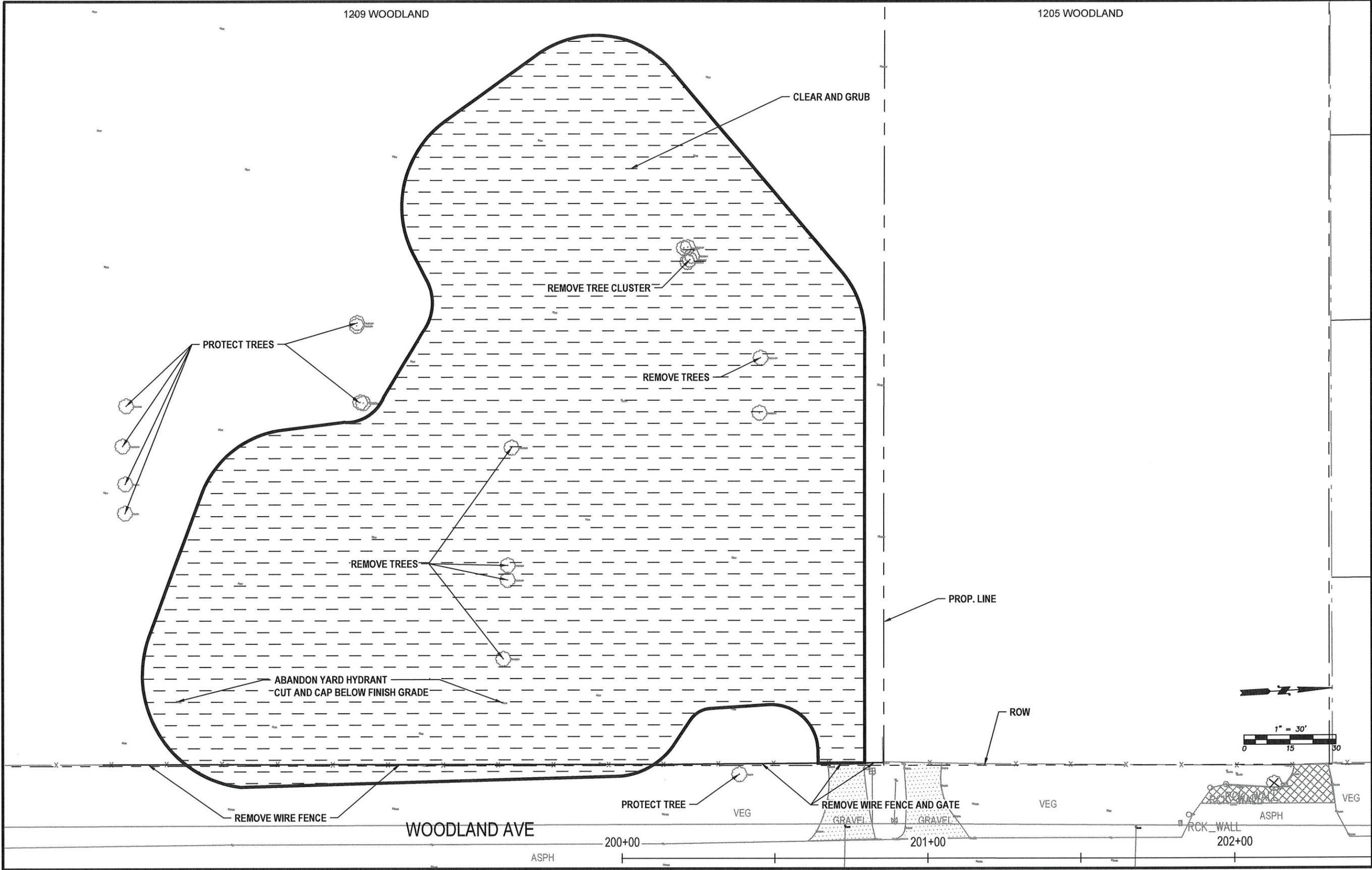
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DM09

1209 WOODLAND

1205 WOODLAND



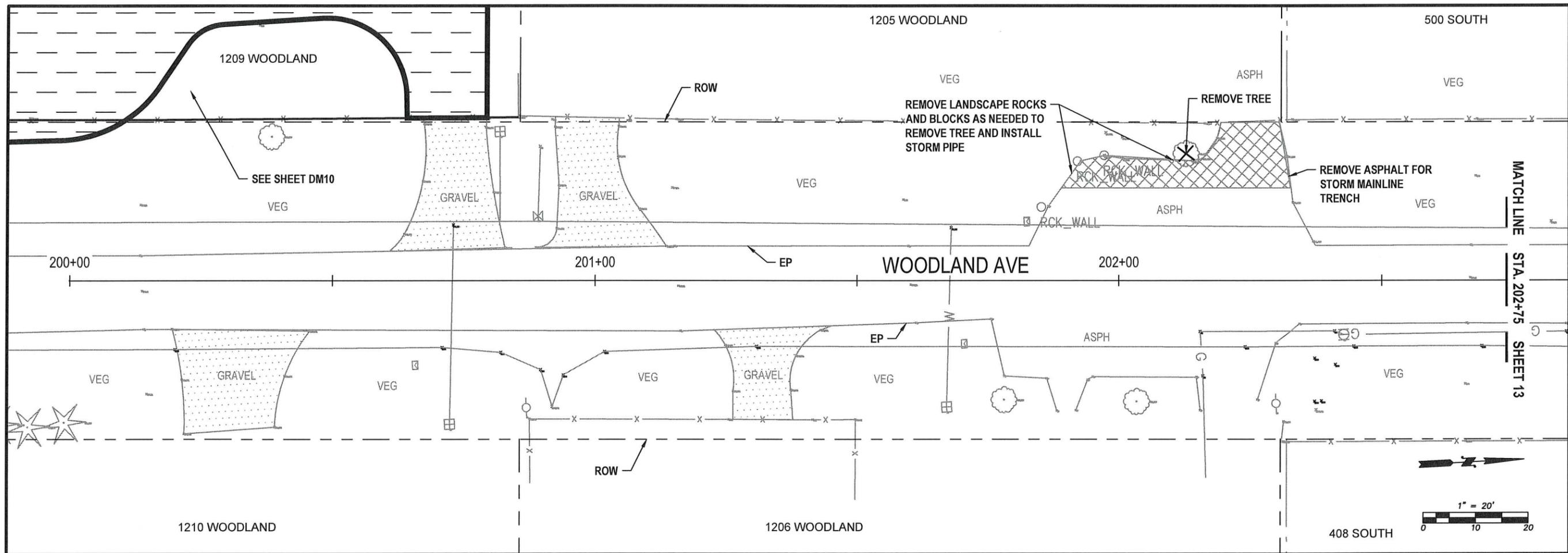
WOODLAND AVE - DEMOLITION
PLAN VIEW



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DM10

11 OF 99



WOODLAND AVE - DEMOLITION
STA 200+00 TO 202+75
PLAN VIEW

ESTIMATED QUANTITIES (THIS SHEET)

 REMOVE ASPHALT
 3 CY

NOTES:

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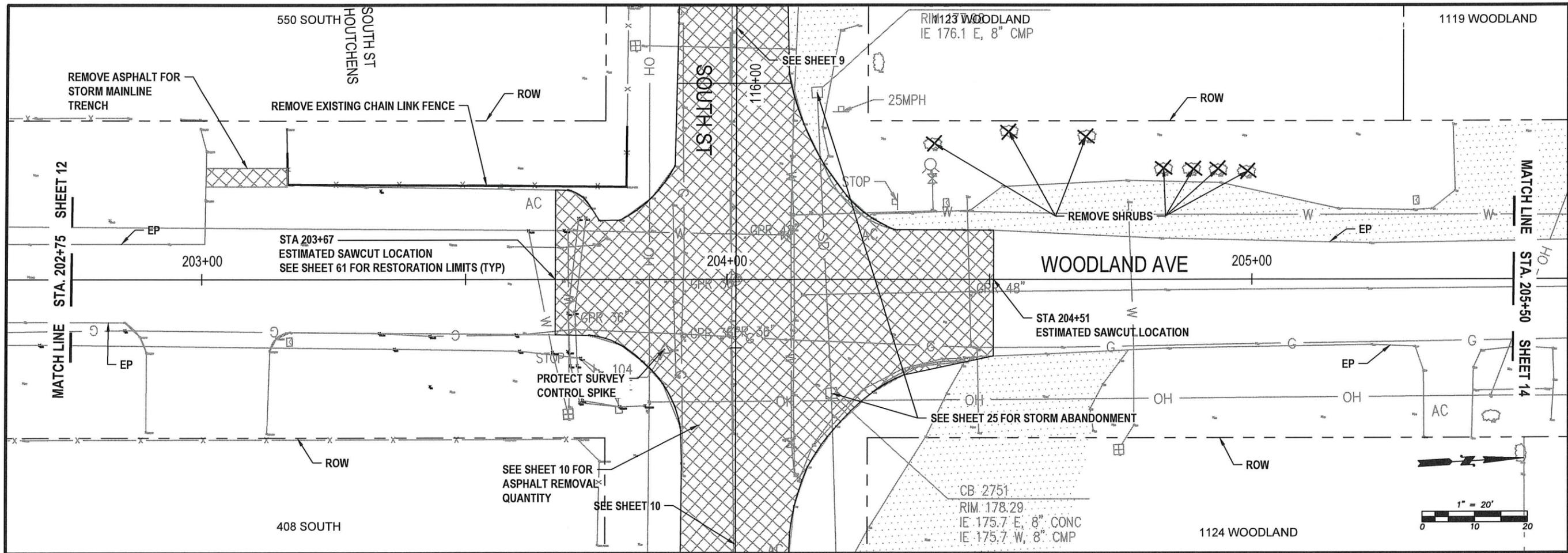


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May, 2025

DM11

12 OF 99



WOODLAND AVE - DEMOLITION
STA 202+75 TO 205+50
PLAN VIEW

ESTIMATED QUANTITIES (THIS SHEET)



NOTES:

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WOODLAND AVE
DEMOLITION
PLAN VIEW
 STA 202+75 TO 205+50

S YEW ST AND SOUTH ST
IMPROVEMENTS
 PW 2025-07

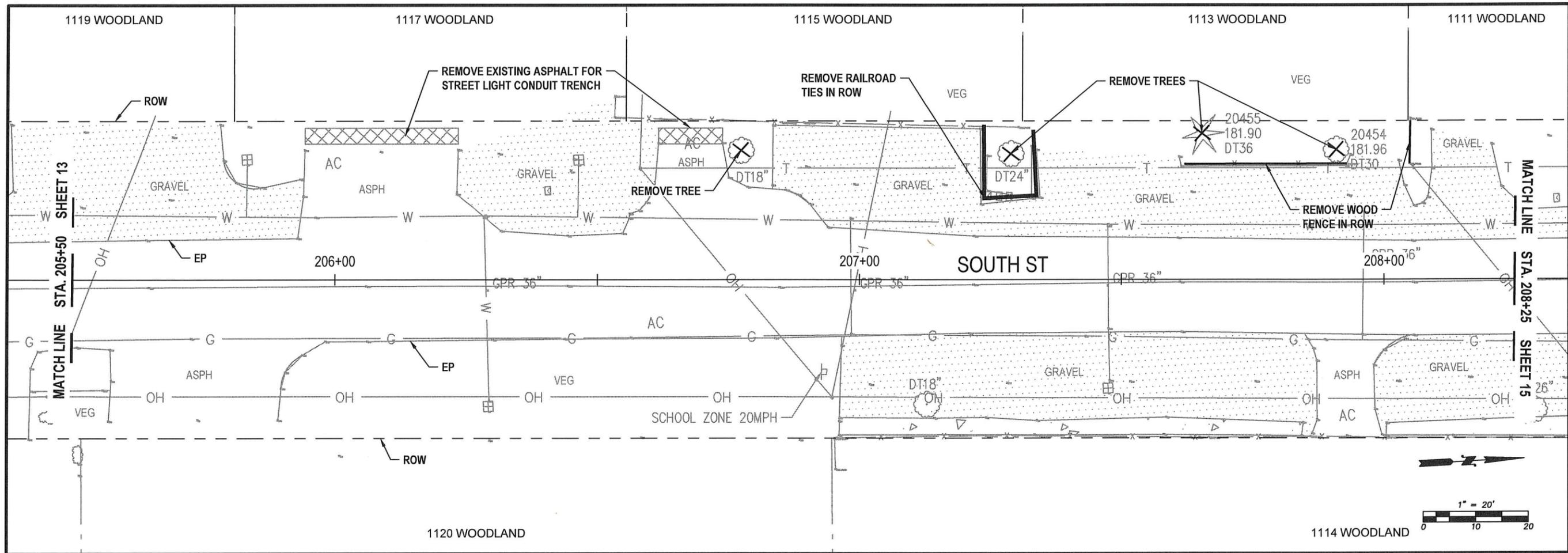


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May, 2025

DM12

13 OF 99



**WOODLAND AVE - DEMOLITION
STA 205+50 TO 208+25
PLAN VIEW**

ESTIMATED QUANTITIES (THIS SHEET)



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**WOODLAND AVE
DEMOLITION
PLAN VIEW
STA 205+50 TO 208+25**

**S YEW ST AND SOUTH ST
IMPROVEMENTS
PW 2025-07**

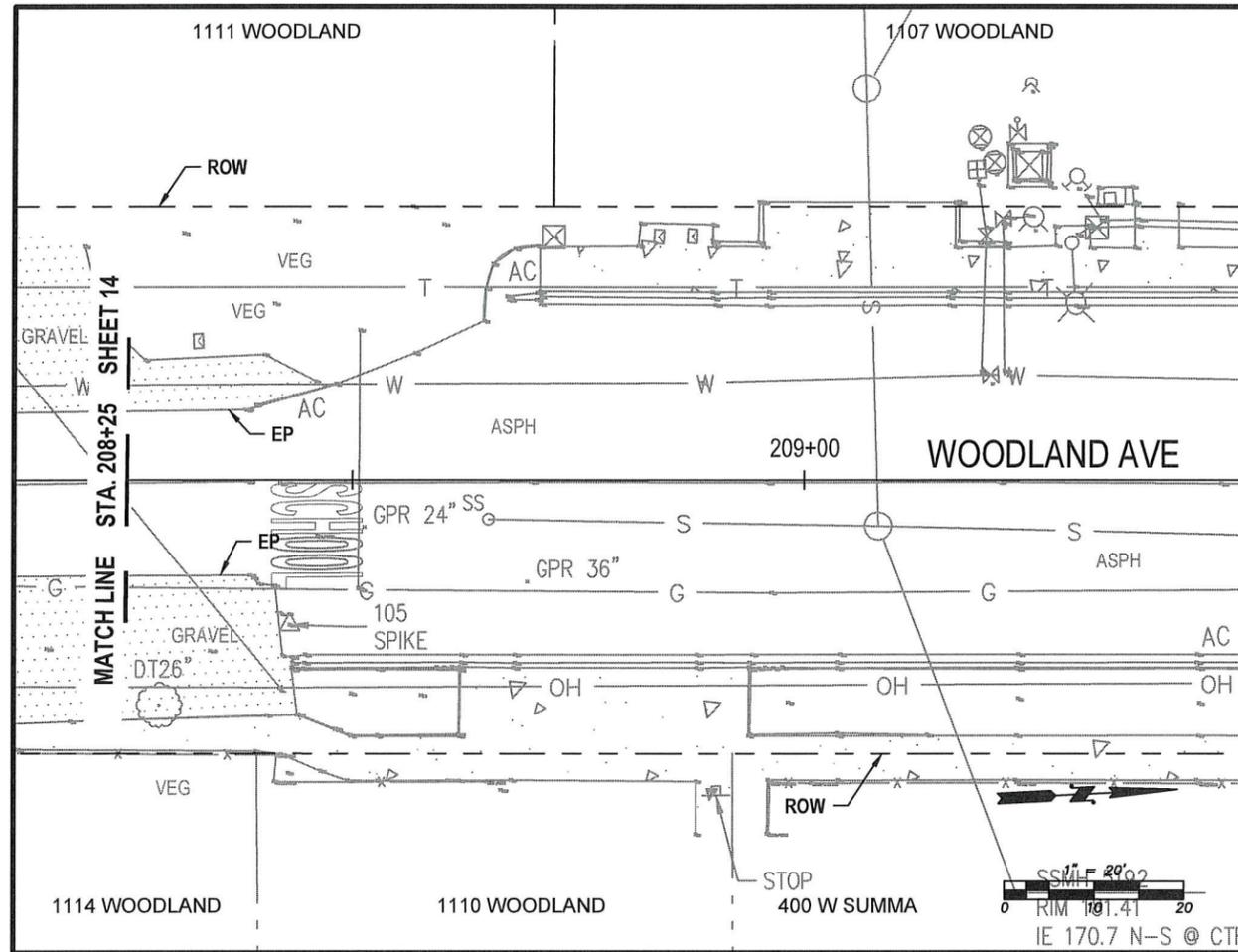


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SURVEYED BY: J. DEBUSK
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May, 2025

DM13

14 OF 99



WOODLAND AVE - DEMOLITION
STA 208+25 TO 209+50
PLAN VIEW

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WOODLAND AVE
DEMOLITION
PLAN VIEW
 STA 208+25 TO 209+50

S YEW ST AND SOUTH ST
IMPROVEMENTS
 PW 2025-07

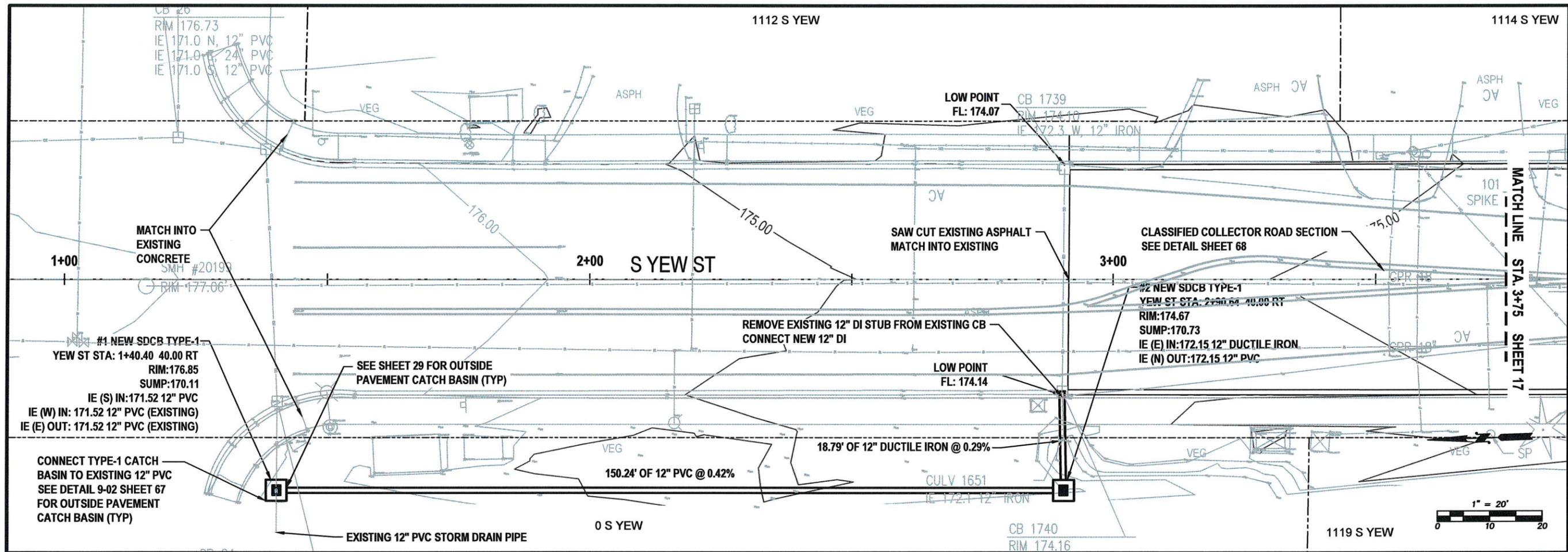


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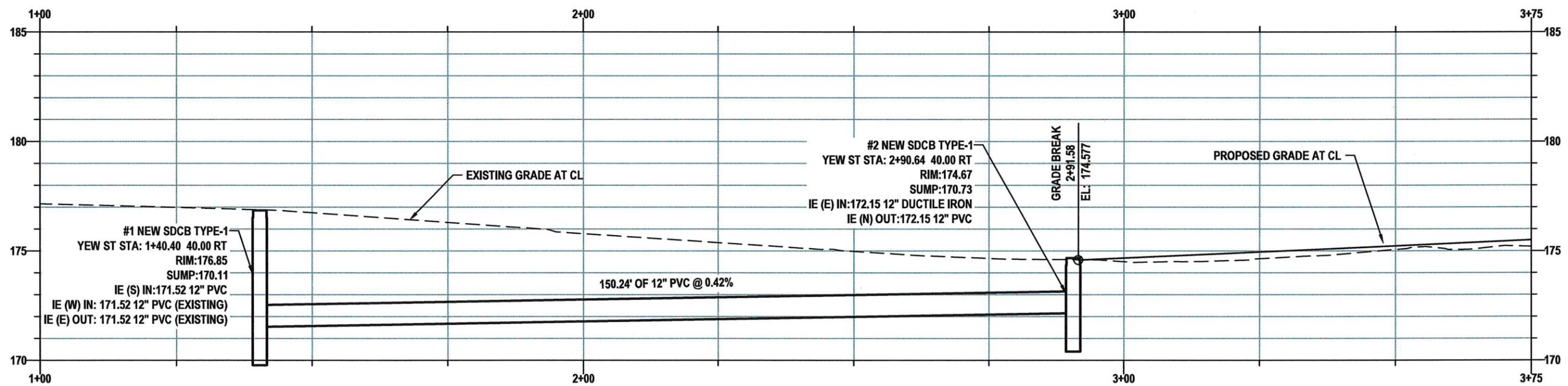
May, 2025

DM14

15 OF 99



YEW ST - GRADING AND DRAINAGE
STA 1+00 TO 3+75
PLAN VIEW



YEW ST - PROFILE VIEW

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YEW ST
GRADING AND DRAINAGE
PLAN VIEW
 STA 1+00 TO 3+75

S YEW ST AND SOUTH ST
IMPROVEMENTS
 PW 2025-07

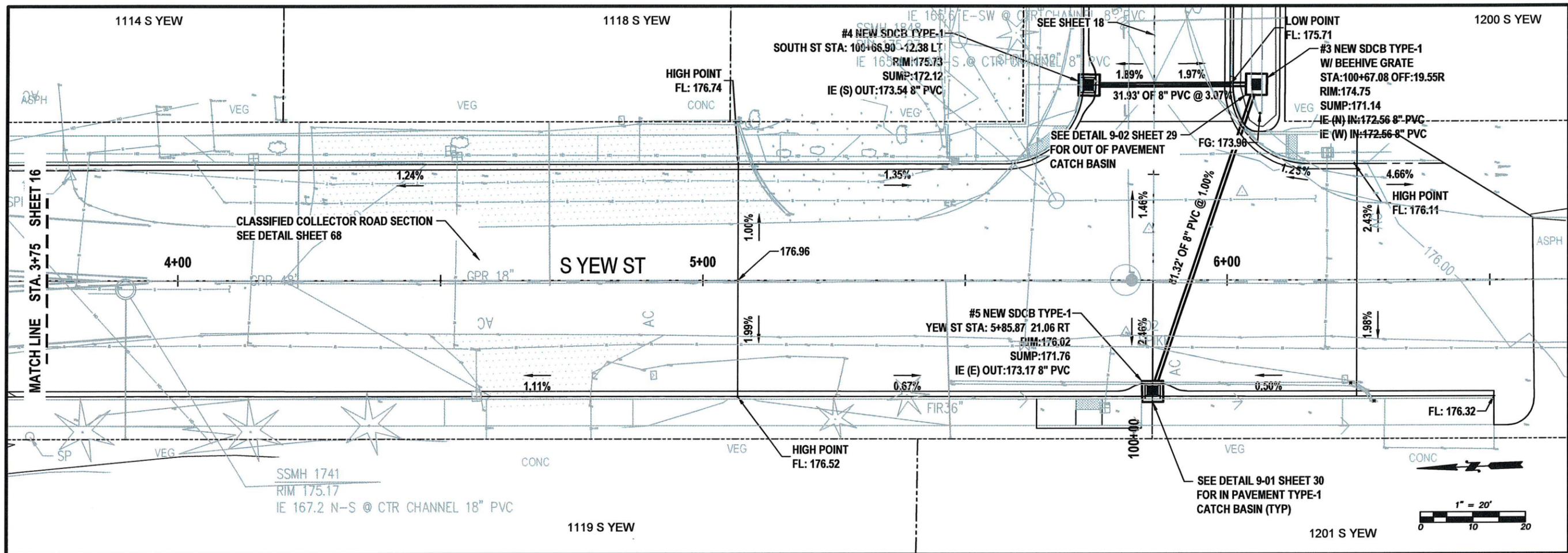


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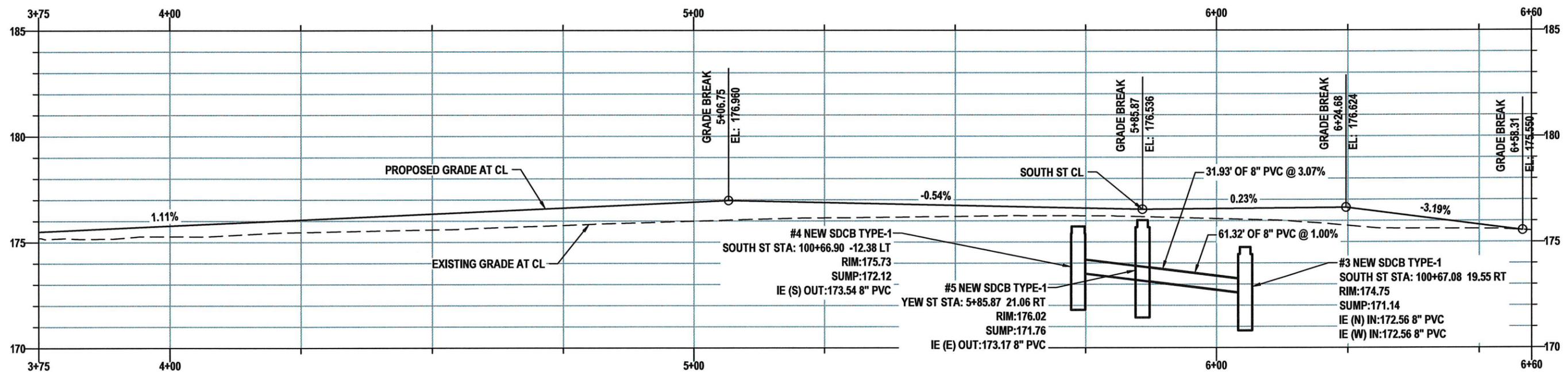
May, 2025

GD01

16 OF 99



YEW ST - GRADING AND DRAINAGE
STA 3+75 TO 6+50
PLAN VIEW

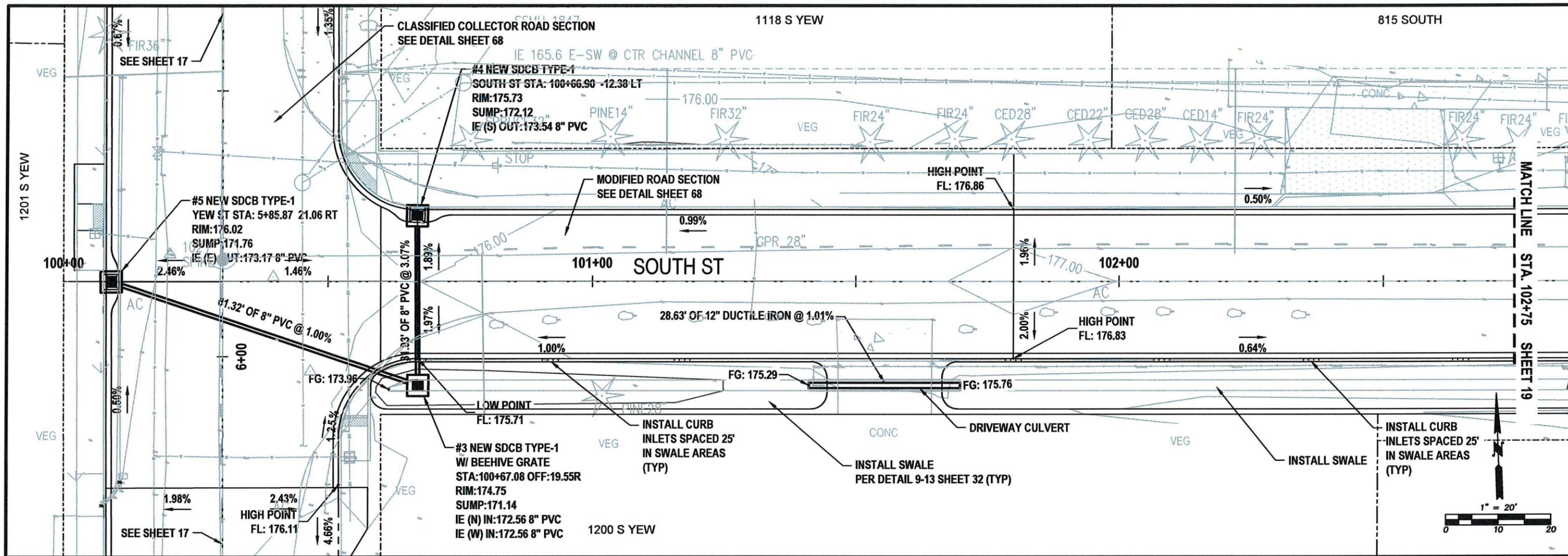


YEW ST - PROFILE VIEW

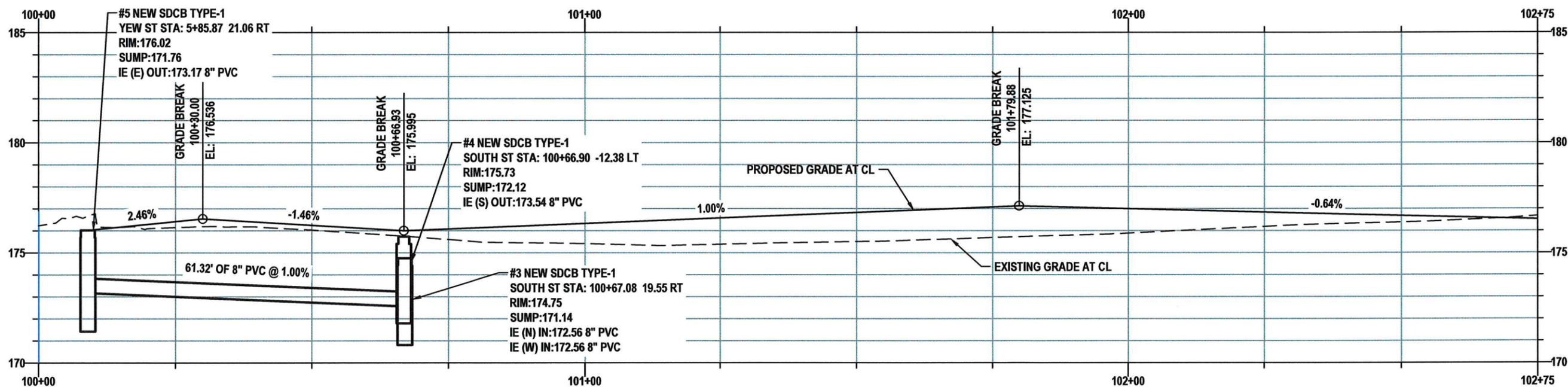


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SOUTH ST - GRADING AND DRAINAGE
STA 100+00 TO 102+75
PLAN VIEW



SOUTH ST - PROFILE VIEW

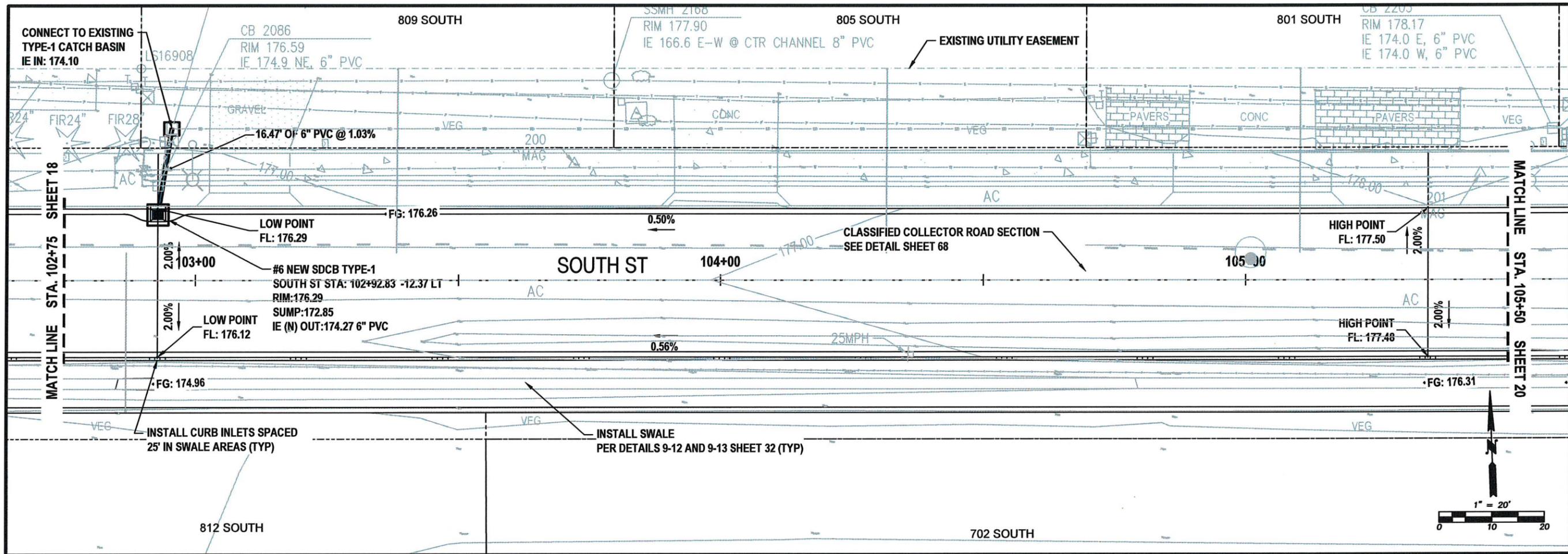


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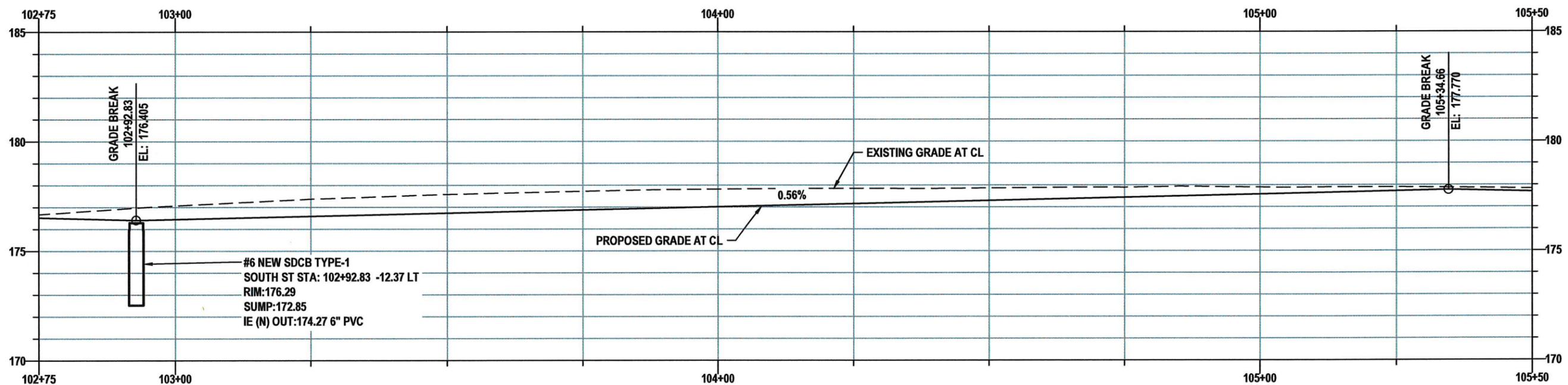
May, 2025

GD03

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SOUTH ST - GRADING AND DRAINAGE
 STA 102+75 TO 105+50
 PLAN VIEW



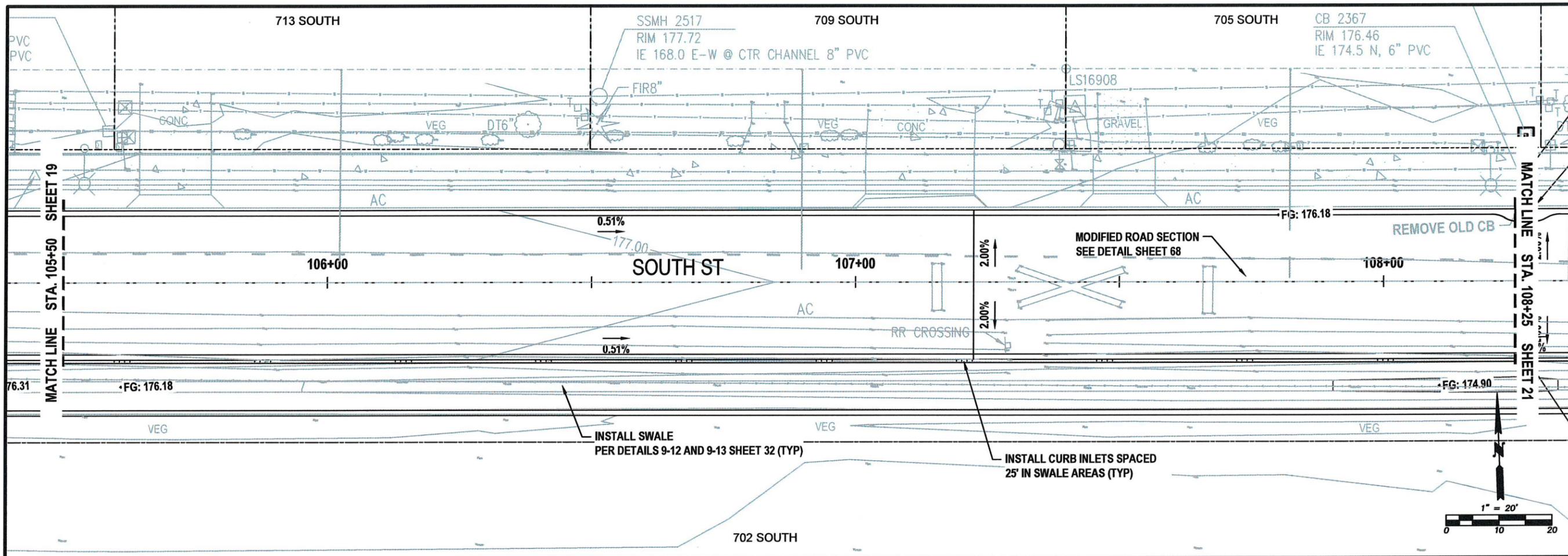
SOUTH ST - PROFILE VIEW



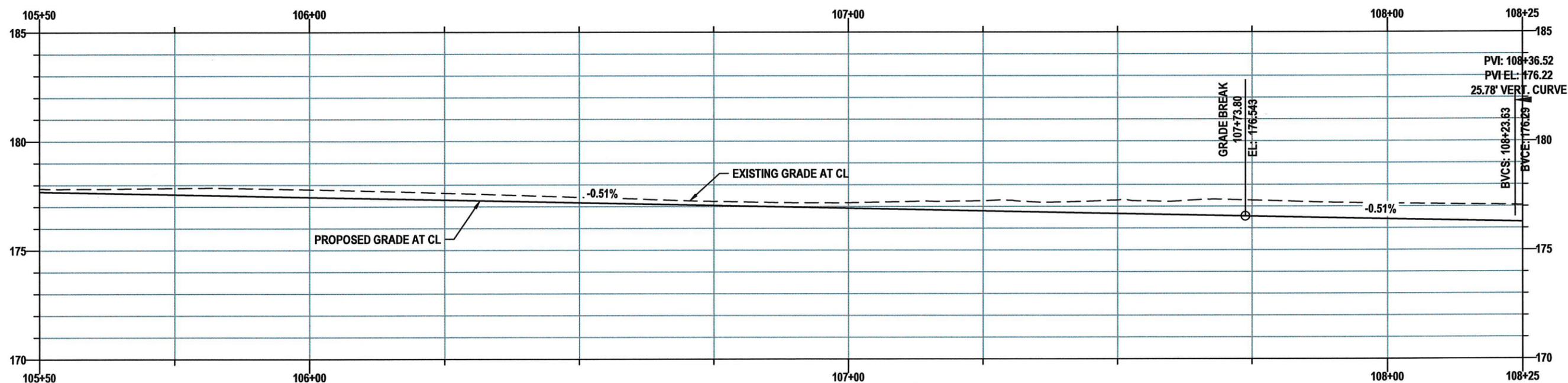
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GD04



SOUTH ST - GRADING AND DRAINAGE
STA 105+50 TO 108+25
PLAN VIEW



SOUTH ST - PROFILE VIEW

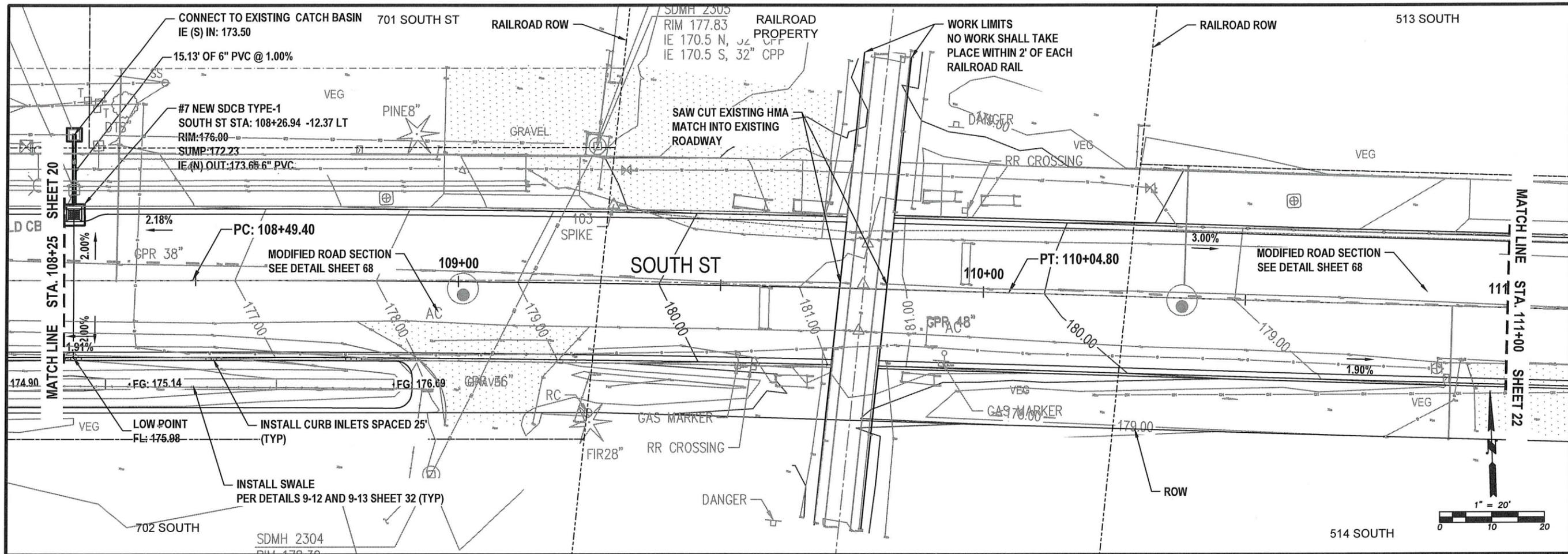


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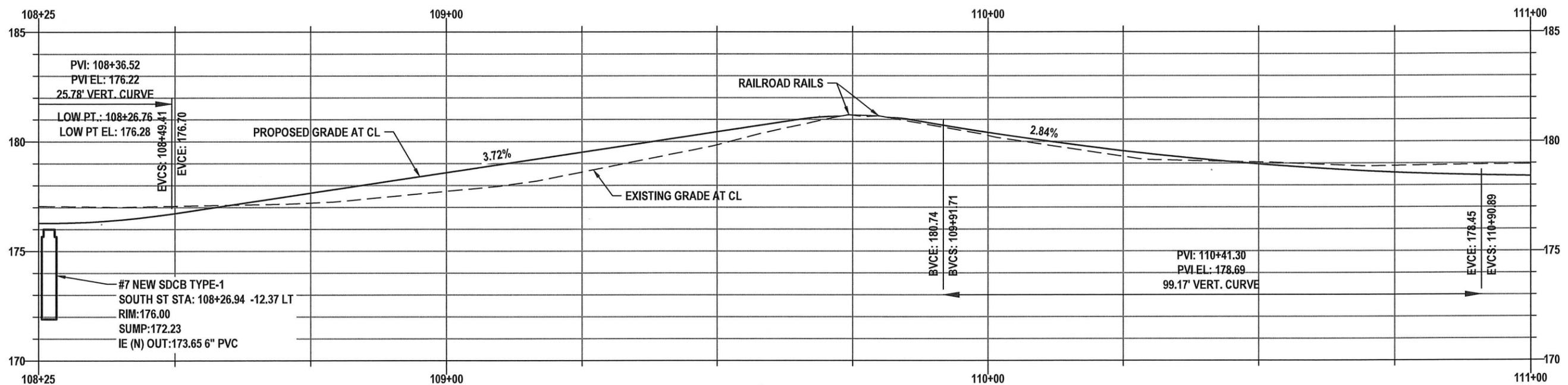
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GD05

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SOUTH ST - GRADING AND DRAINAGE
 STA 108+25 TO 111+00
 PLAN VIEW



SOUTH ST - PROFILE VIEW

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SOUTH ST
 GRADING AND DRAINAGE
 PLAN VIEW
 STA 108+25 TO 111+00

S YEW ST AND SOUTH ST
 IMPROVEMENTS
 PW 2025-07

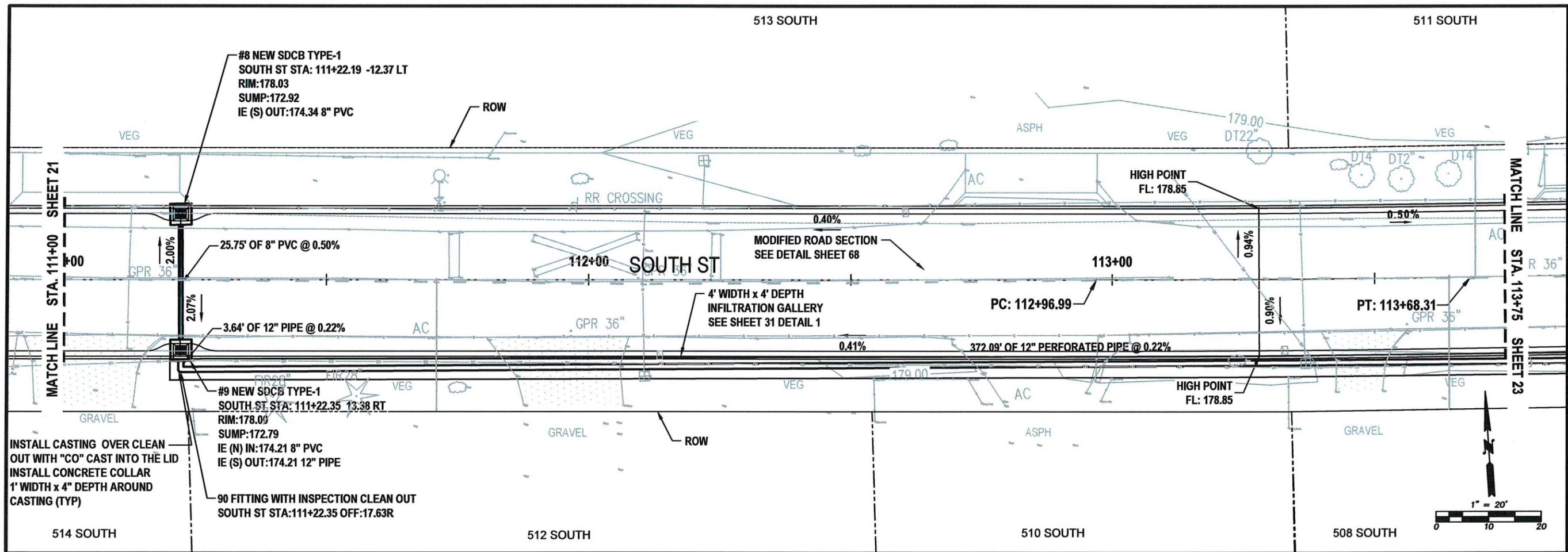


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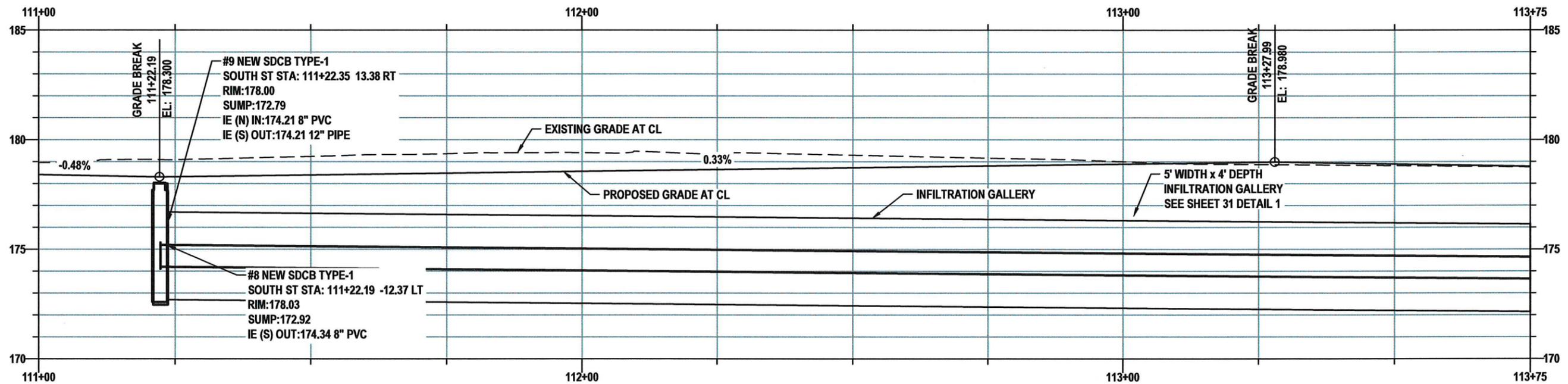
May, 2025

GD06

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SOUTH ST - GRADING AND DRAINAGE
STA 111+00 TO 113+75
PLAN VIEW



SOUTH ST - PROFILE VIEW

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SOUTH ST
GRADING AND DRAINAGE
PLAN VIEW
STA 111+00 TO 113+75

S YEW ST AND SOUTH ST
IMPROVEMENTS
PW 2025-07

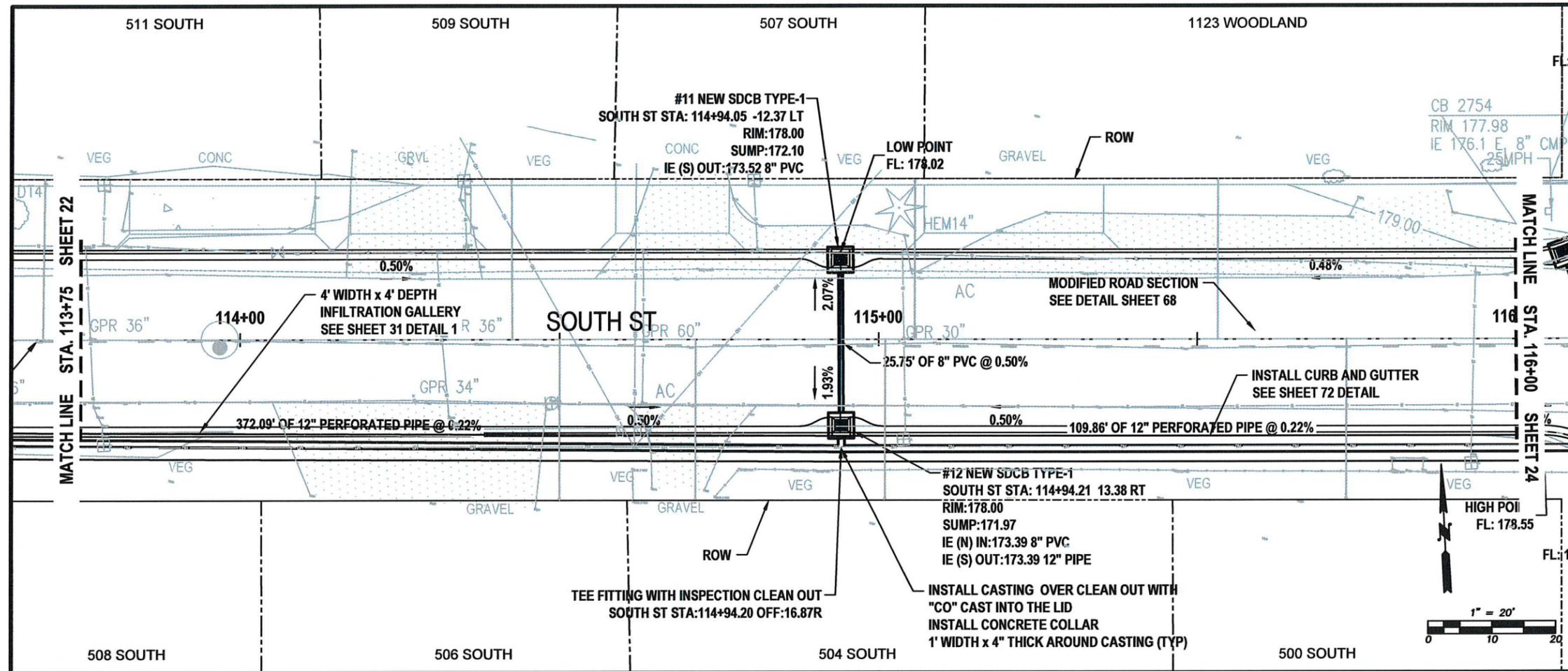


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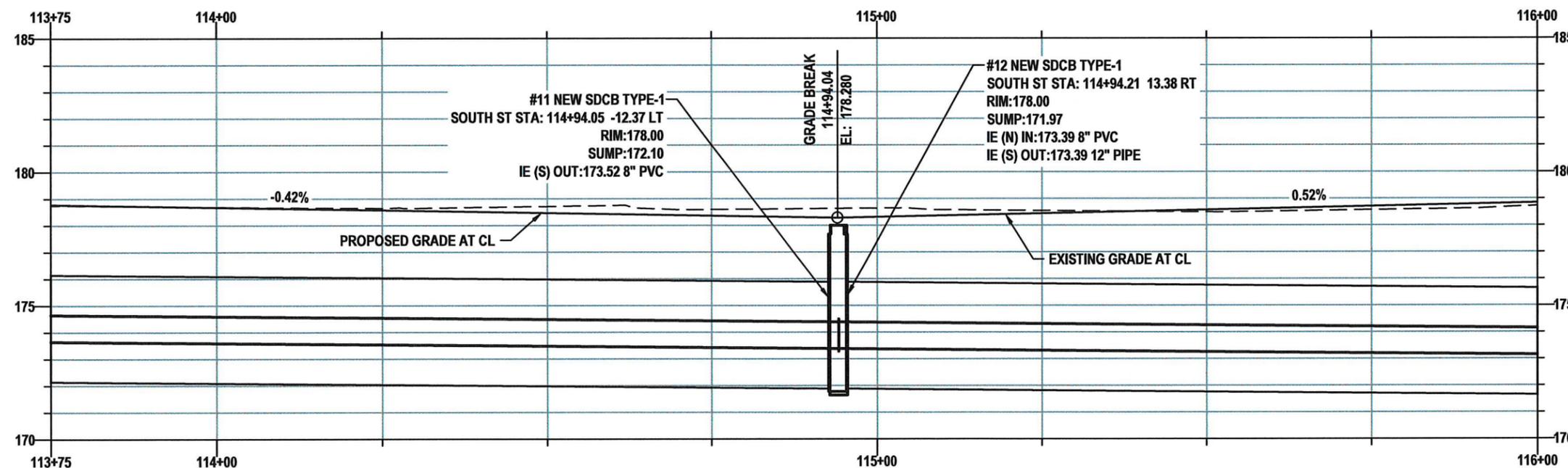
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GD07

22 OF 99



SOUTH ST - GRADING AND DRAINAGE
STA 113+75 TO 116+00
PLAN VIEW



SOUTH ST - PROFILE VIEW

1114 S YEW

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 CITY OF CENTRALIA.COM

SOUTH ST
GRADING AND DRAINAGE
PLAN VIEW

STA 113+75 TO 116+00

S YEW ST AND SOUTH ST
IMPROVEMENTS

PW 2025-07

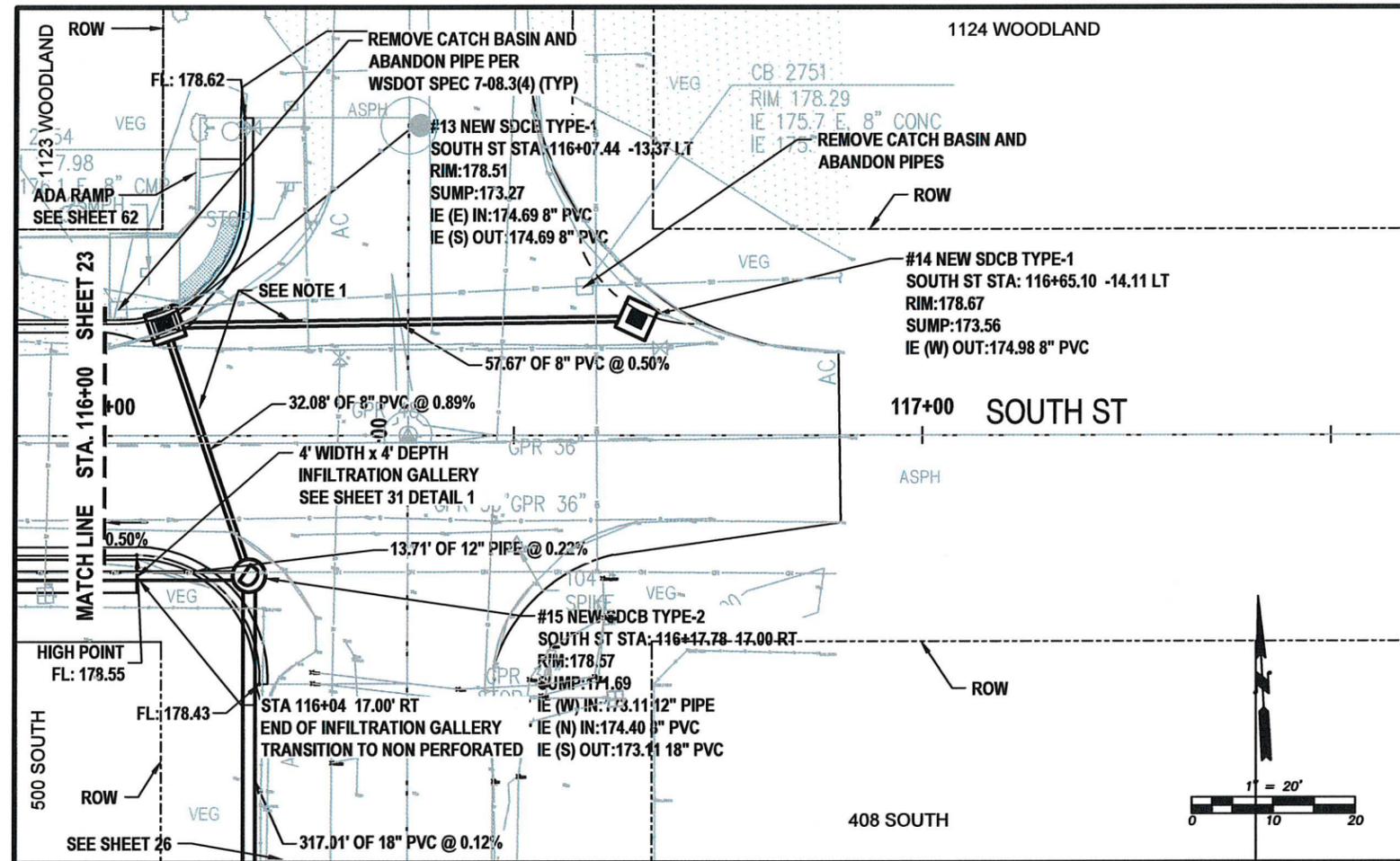


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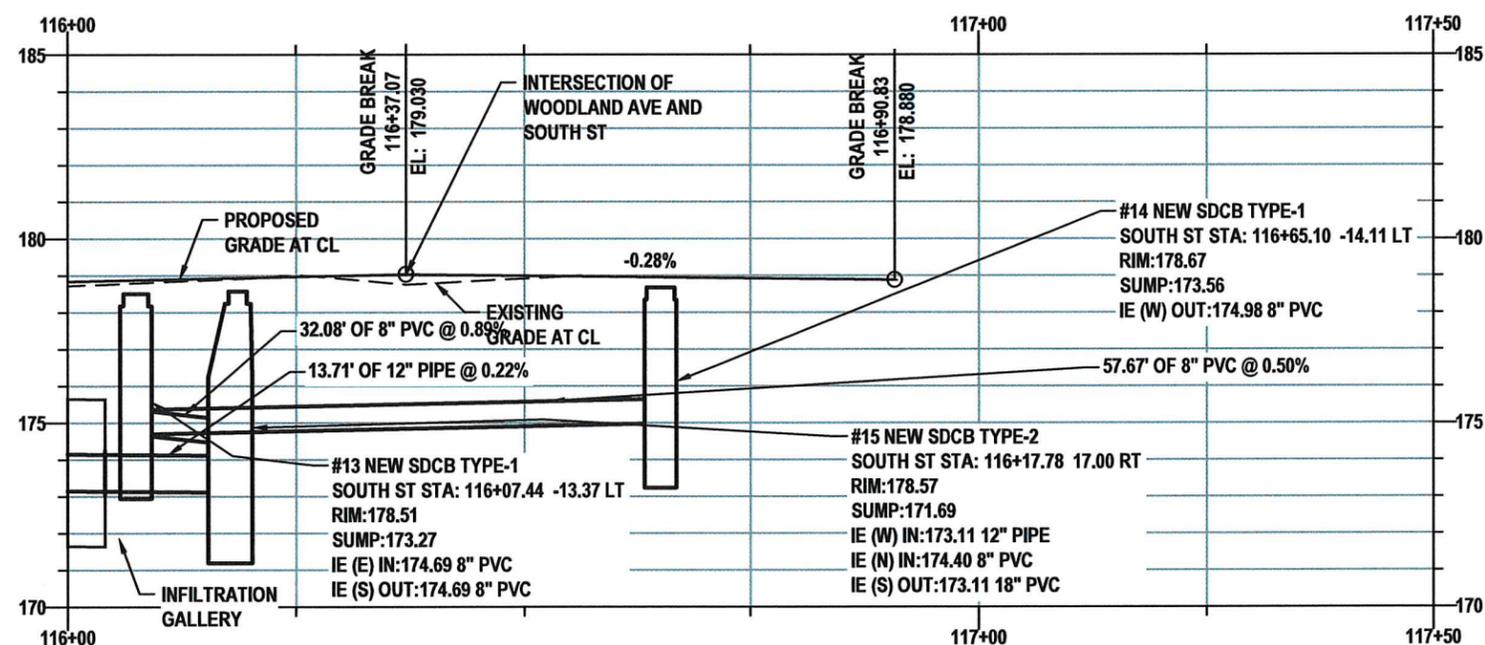
May, 2025

GD08

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SOUTH ST - GRADING AND DRAINAGE
STA 116+00 TO 117+50
PLAN VIEW



SOUTH ST - PROFILE VIEW

NOTES:

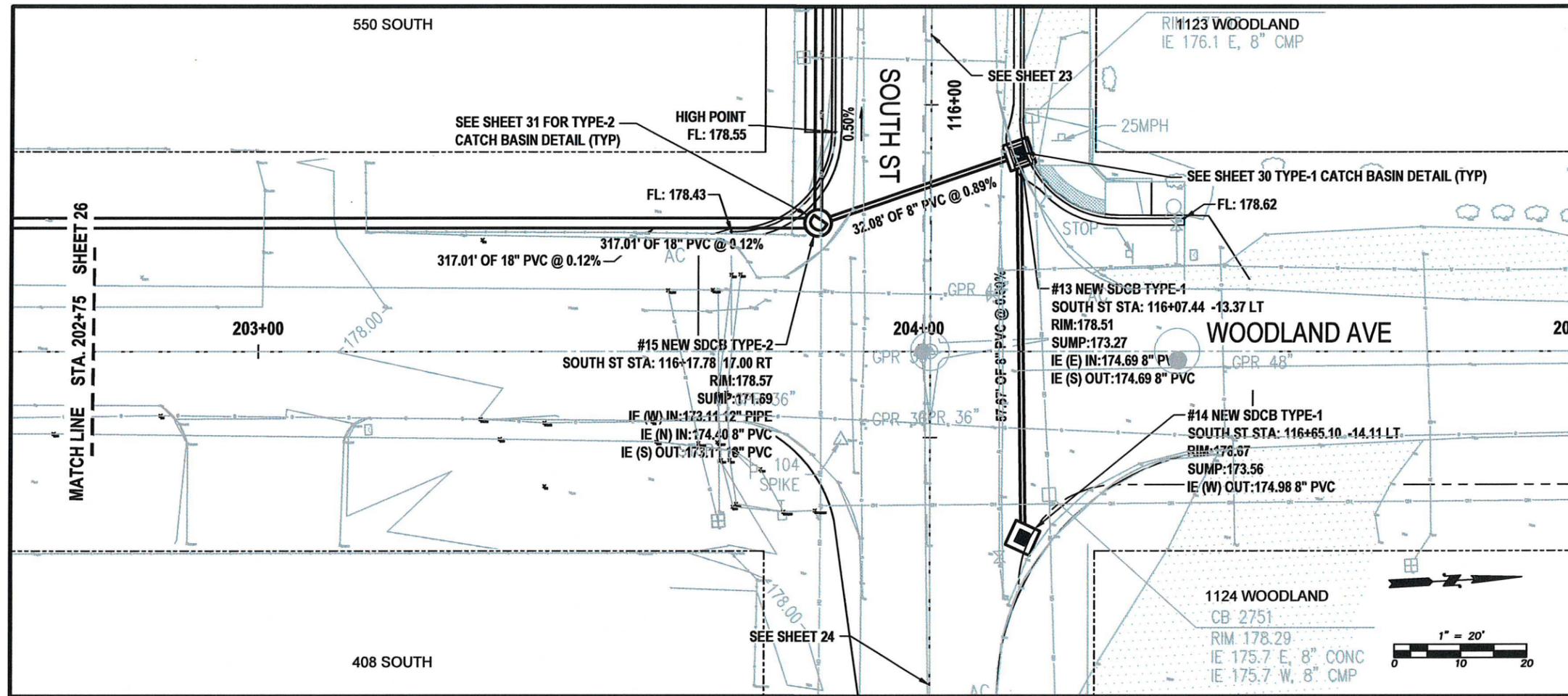
1. AT THIS LOCATION THE NEW STORM PIPE IS AT THE SAME ELEVATION AS THE EXISTING WATER MAIN. THE NEW STORM PIPES SHOULD BE INSTALLED AFTER THE NEW WATER MAIN IS IN SERVICE.



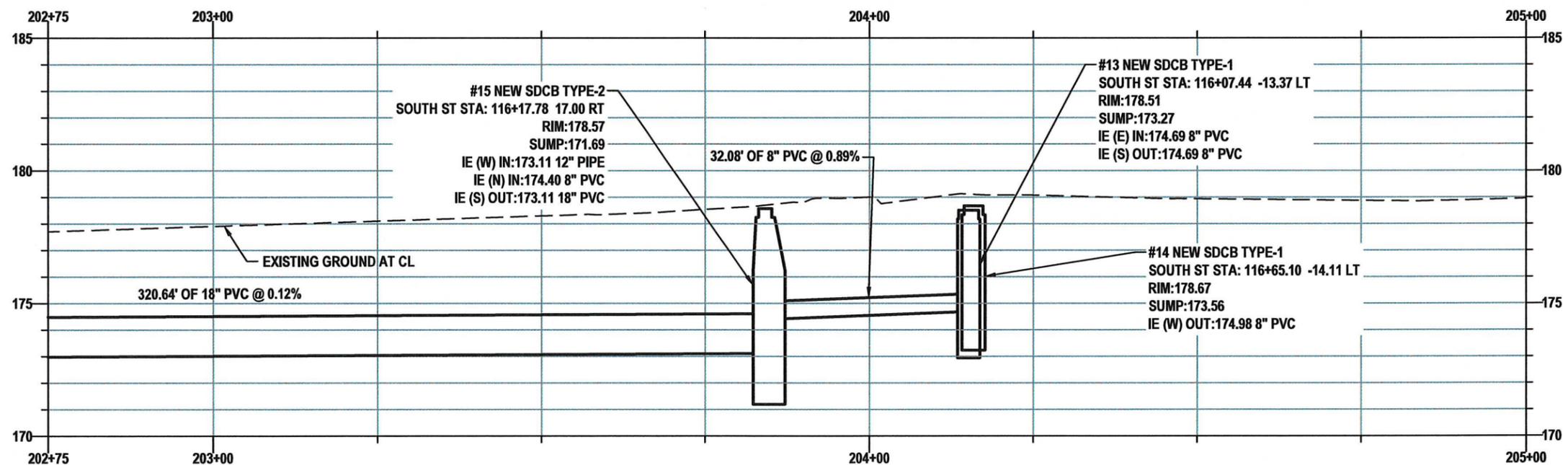
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GD09



WOODLAND AVE - GRADING AND DRAINAGE
 STA 202+75 TO 205+00
 PLAN VIEW



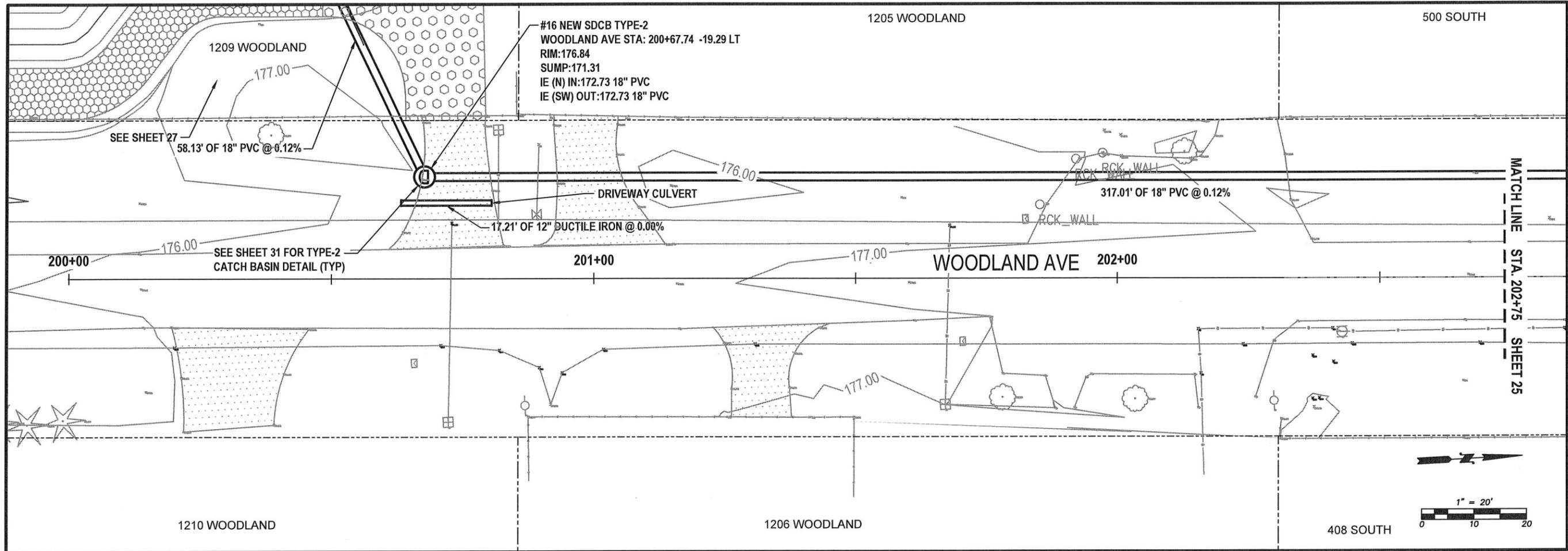
WOODLAND AVE - PROFILE VIEW



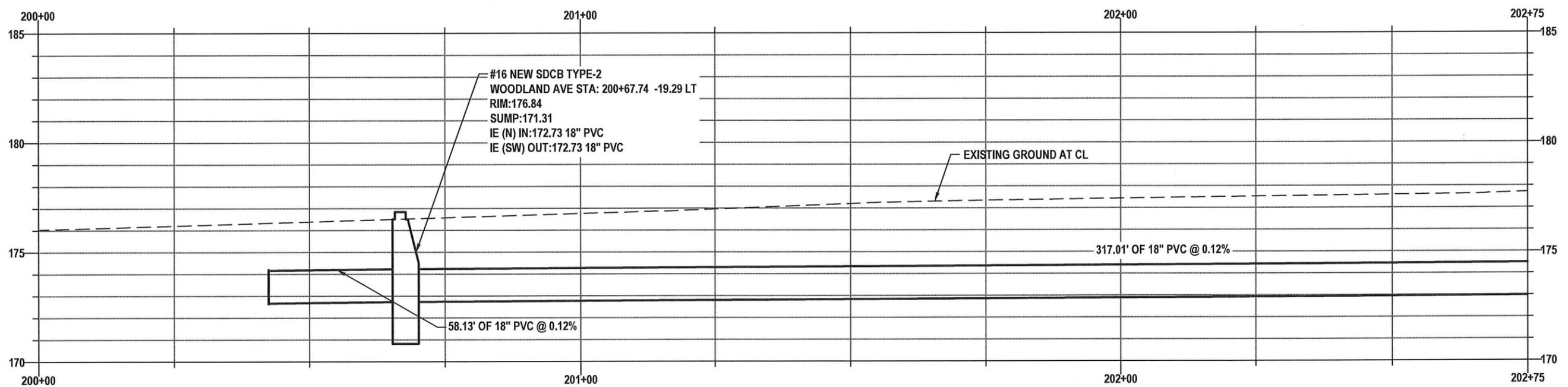
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GD10



WOODLAND AVE - GRADING AND DRAINAGE
 STA 200+00 TO 202+75
 PLAN VIEW



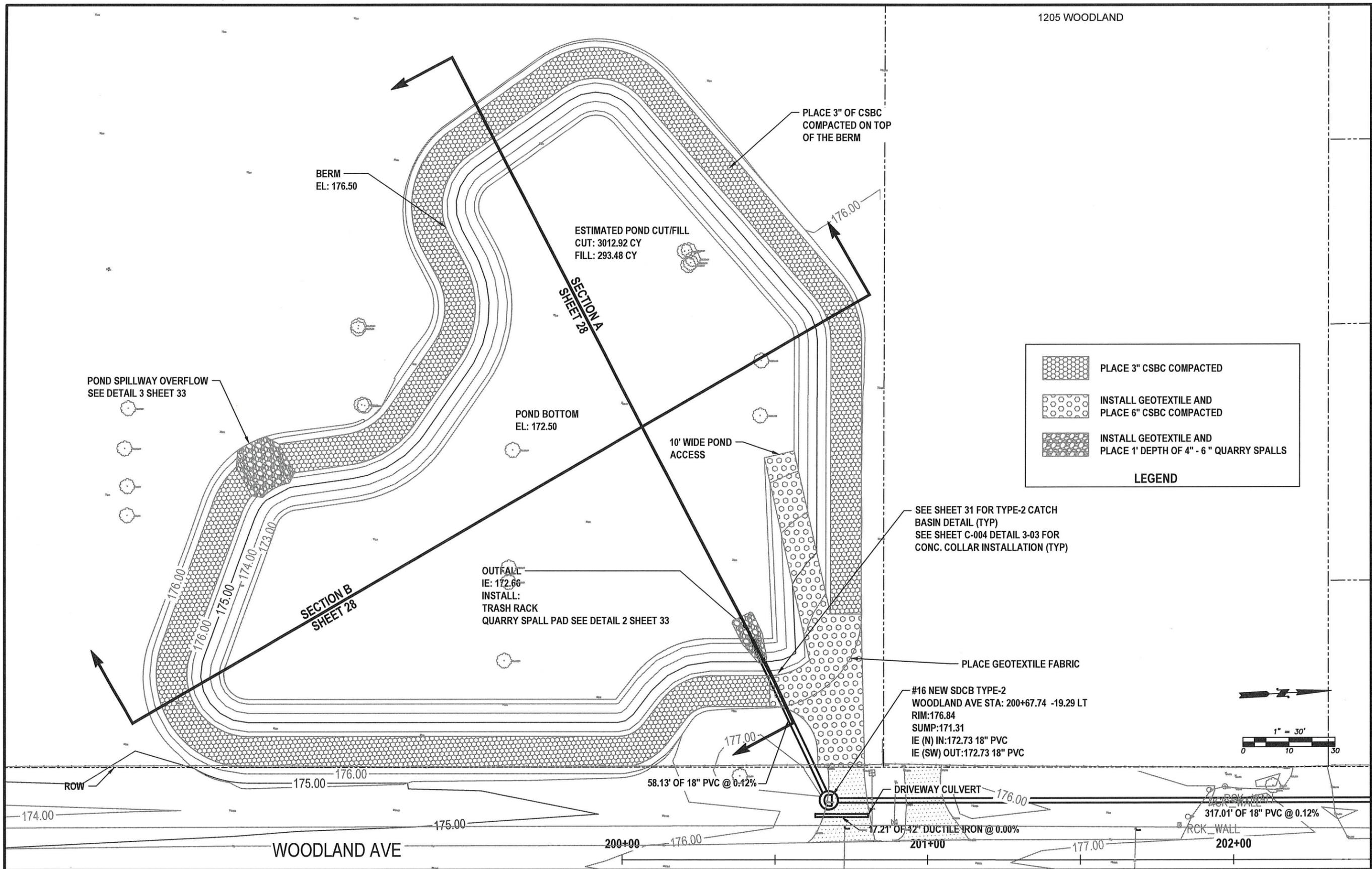
WOODLAND AVE - PROFILE VIEW



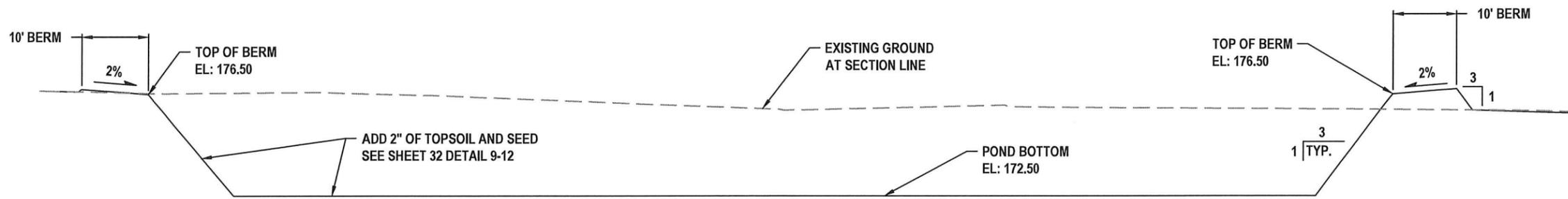
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GD11

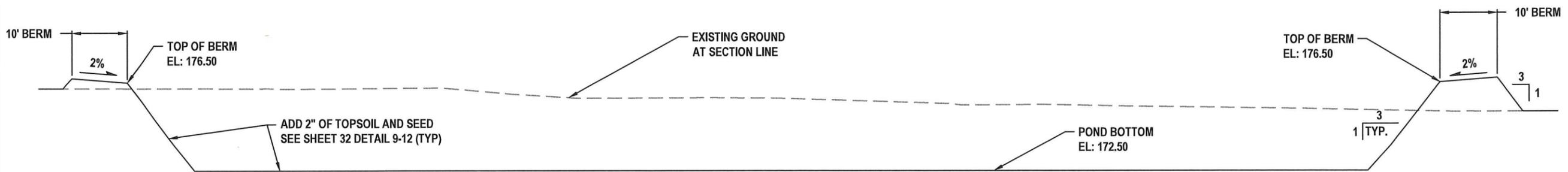


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**WOODLAND STORM POND - SECTION A
PROFILE VIEW**

VERT. SCALE: 1" = 20' HORIZ. SCALE: 1" = 5'



**WOODLAND STORM POND - SECTION B
PROFILE VIEW**

VERT. SCALE: 1" = 20' HORIZ. SCALE: 1" = 5'



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GD13

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**STORM DRAINAGE INSTALLATION
GENERAL NOTES**

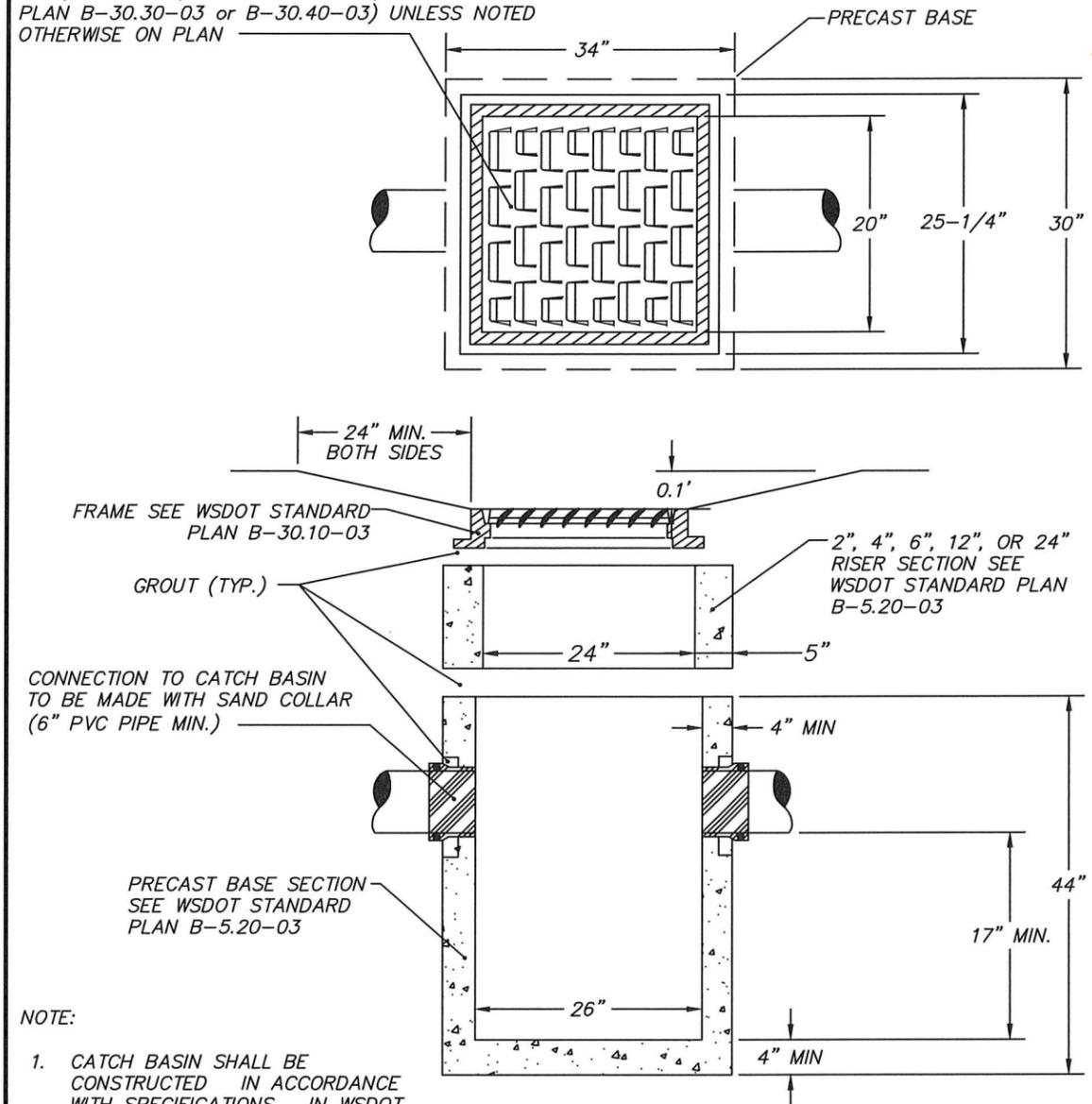
1. All workmanship and materials shall be in accordance with City of Centralia Standards and the most current copy of the WSDOT/APWA Standard Specifications for Road, Bridge and Municipal Construction.
2. Temporary erosion/pollution measures shall be required for the duration of the project.
3. The contractor must comply with all permits and other requirements of the City of Centralia or other governing authority or agency.
4. A preconstruction meeting shall be held with the City of Centralia prior to the start of staking.
5. All storm sewer mains, appurtenances and retention/detention areas shall be staked for grade and alignment by an engineering or surveying firm capable of performing such work. All vertical control shall be established using the 1988 USGS Datum. Staking shall be inspected by the City prior to the start of construction and shall be maintained throughout construction.
6. Storm drain pipe shall meet the following requirements (use only those which apply):
 - A. Plain concrete pipe conforming to AASHTO M 86, Class 2.
 - B. reinforced concrete pipe conforming to AASHTO M 170.
 - C. PVC pipe conforming to ASTM D 3034 SDR 35, ASTM F 794 or ASTM F 679. Type 1 with joints and gaskets conforming to ASTM 3212 and ASTM F 477.
 - D. Ductile iron pipe conforming to AWWA C 151, thickness class as shown on plans.
7. Special structures, oil/water separators and outlet controls shall be installed per plans and manufacturers recommendations.
8. Provide traffic control plan(s) as required in accordance with MUTCD.
9. Call the Underground Location Center at 1-800-424-5555 a minimum of 48 hours prior to any excavation.
10. Where connections require "field verifications", connection points will be exposed by the contractor and fittings field verified 48 hours prior to starting construction.
11. All Storm lines will be high-velocity cleaned and pressure tested in accordance with Division 7 of the WSDOT Standard Specifications prior to paving in conformance with the above-referenced specifications. (See Note 1). Hydrant flushing of lines is not an acceptable cleaning method.
12. Testing of the Storm main will include Television inspection of the main at the contractor's expense. Immediately prior to tv inspection enough water will be run down the line to flush it clean. Acceptance of the line will be made after tv inspection tape has been reviewed and approved by the inspector. A water test of all manholes is also required. Testing will take place after all underground utilities are installed and compaction of the roadway subgrade is completed.

APPROVED BY	REVISED DATE	CITY OF CENTRALIA	
CITY ENGINEER	06/2017	STORM DRAINAGE INSTALLATION GENERAL NOTES	1 of 1
2022 Standard Drawings			

STORM DRAINAGE INSTALLATION GENERAL NOTES
DETAIL



25 1/4" X 29 1/4" METAL GRATE (WSDOT STANDARD
PLAN B-30.30-03 or B-30.40-03) UNLESS NOTED
OTHERWISE ON PLAN



NOTE:

1. CATCH BASIN SHALL BE CONSTRUCTED IN ACCORDANCE WITH SPECIFICATIONS IN WSDOT STANDARD PLAN B-5.20-03
2. THE MAXIMUM DEPTH FROM FINISHED GRADE TO THE LOWEST PIPE INVERT SHALL BE 5'. A TYPE 2 CATCH BASIN IS REQUIRED WHERE DEPTH IS GREATER THAN 5'. SEE STANDARD DETAIL 9-03.

APPROVED BY	REVISED DATE	CITY OF CENTRALIA	STD. PLAN NO.
CITY ENGINEER	03/2024	CATCH BASIN TYPE 1 OUTSIDE PAVEMENT AREA	9-02
2022 Standard Drawings			

CATCH BASIN TYPE-1 OUTSIDE PAVEMENT AREA
DETAIL



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1100 N. TOWER AVE
CENTRALIA, WA 98531
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DRAINAGE DETAILS

S YEW ST AND SOUTH ST
IMPROVEMENTS

PW 2025-07



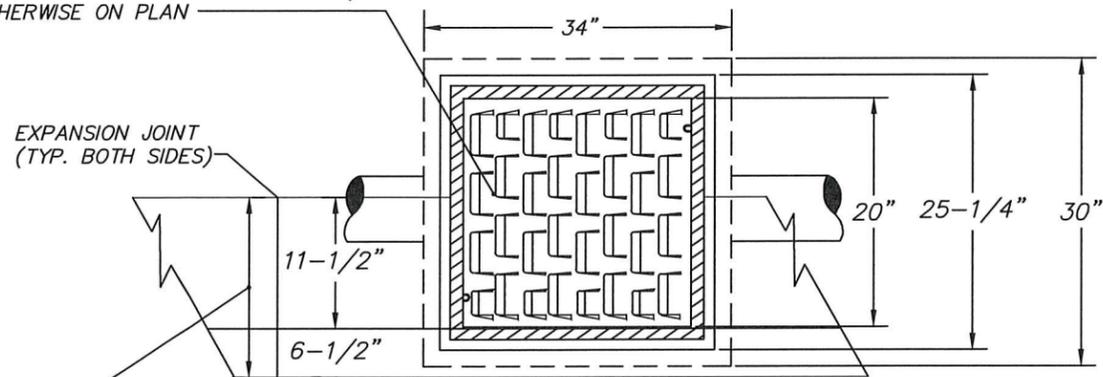
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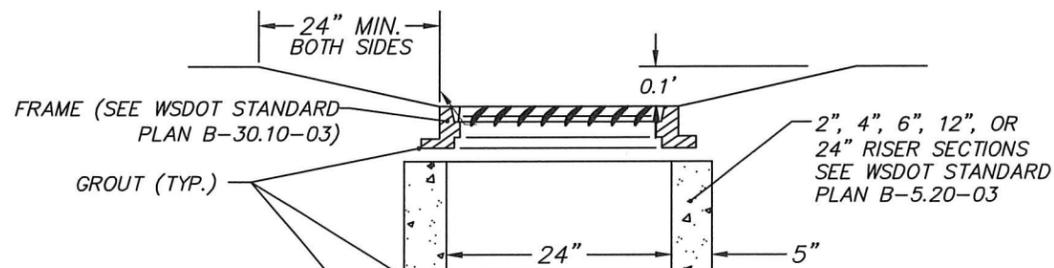
DD01

29 OF 99

25 1/4" X 29 1/4" METAL GRATE (WSDOT STANDARD PLAN B-30.30-03 OR B-30.40-03) UNLESS NOTED OTHERWISE ON PLAN

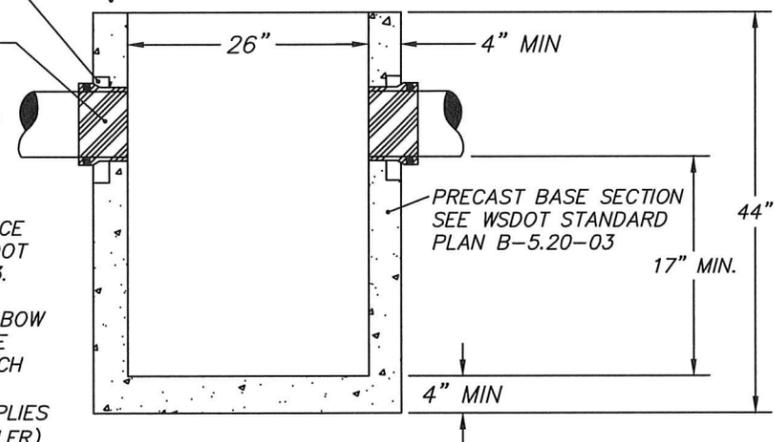


EXPANSION JOINT (TYP. BOTH SIDES)



CONNECTION TO CATCH BASIN TO BE MADE WITH SAND COLLAR (6" PVC PIPE MIN.)

FLOW



NOTE:

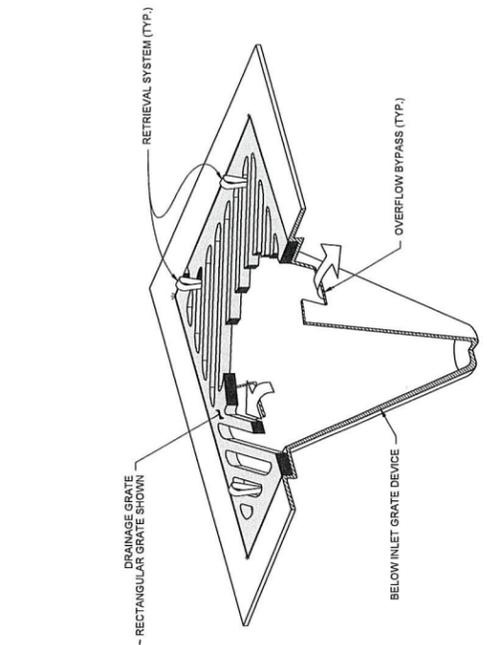
1. CATCH BASIN SHALL BE CONSTRUCTED IN ACCORDANCE WITH SPECIFICATIONS IN WSDOT STANDARD PLAN B-5.20-03.
2. A DOWN TURNED 90 DEG ELBOW SHALL BE INSTALLED AT THE OUTLET END WHEN THE CATCH BASIN DISCHARGES TO A NON-TREATED SYSTEM. (APPLIES TO 12" DIA. PIPE AND SMALLER)
3. THE MAXIMUM DEPTH FROM FINISHED GRADE TO THE LOWEST PIPE INVERT SHALL BE 5'. A TYPE 2 CATCH BASIN IS REQUIRED WHERE DEPTH IS GREATER THAN 5'. SEE STANDARD DETAIL 9-03.

APPROVED BY	REVISED DATE	CITY OF CENTRALIA	STD. PLAN NO.
CITY ENGINEER	11/2020	CATCH BASIN TYPE 1 IN PAVEMENT AREA	9-01
2022 Standard Drawings			

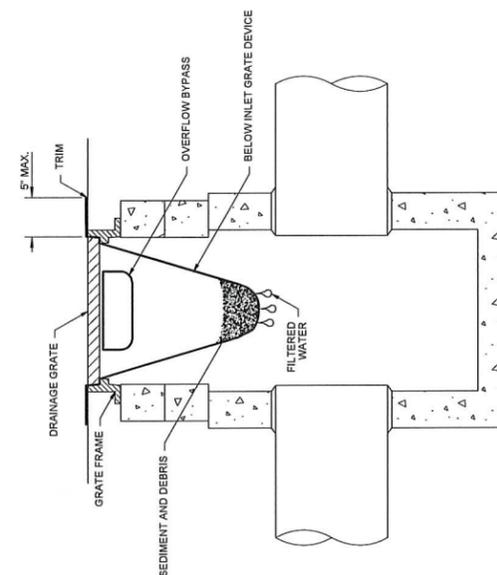
CATCH BASIN TYPE-1 IN PAVEMENT AREA
DETAIL



- NOTES:
1. Size the Below Inlet Grate Device (BIGD) for the storm water structure it will service.
 2. The BIGD shall have a built-in high-flow relief system (overflow bypass).
 3. The retrieval system must allow removal of the BIGD without spilling the collected material.
 4. Perform maintenance in accordance with Standard Specification 8-01.3(15).



ISOMETRIC VIEW



SECTION VIEW
NOT TO SCALE

APPROVED BY	REVISED DATE	CITY OF CENTRALIA
CITY ENGINEER	06/2017	STORM DRAIN INLET PROTECTION
2022 Standard Drawings		

STD. PLAN NO.
9-06

INLET PROTECTION
DETAIL



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1100 N. TOWER AVE
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DRAINAGE DETAILS

S YEW ST AND SOUTH ST
IMPROVEMENTS

PW 2025-07

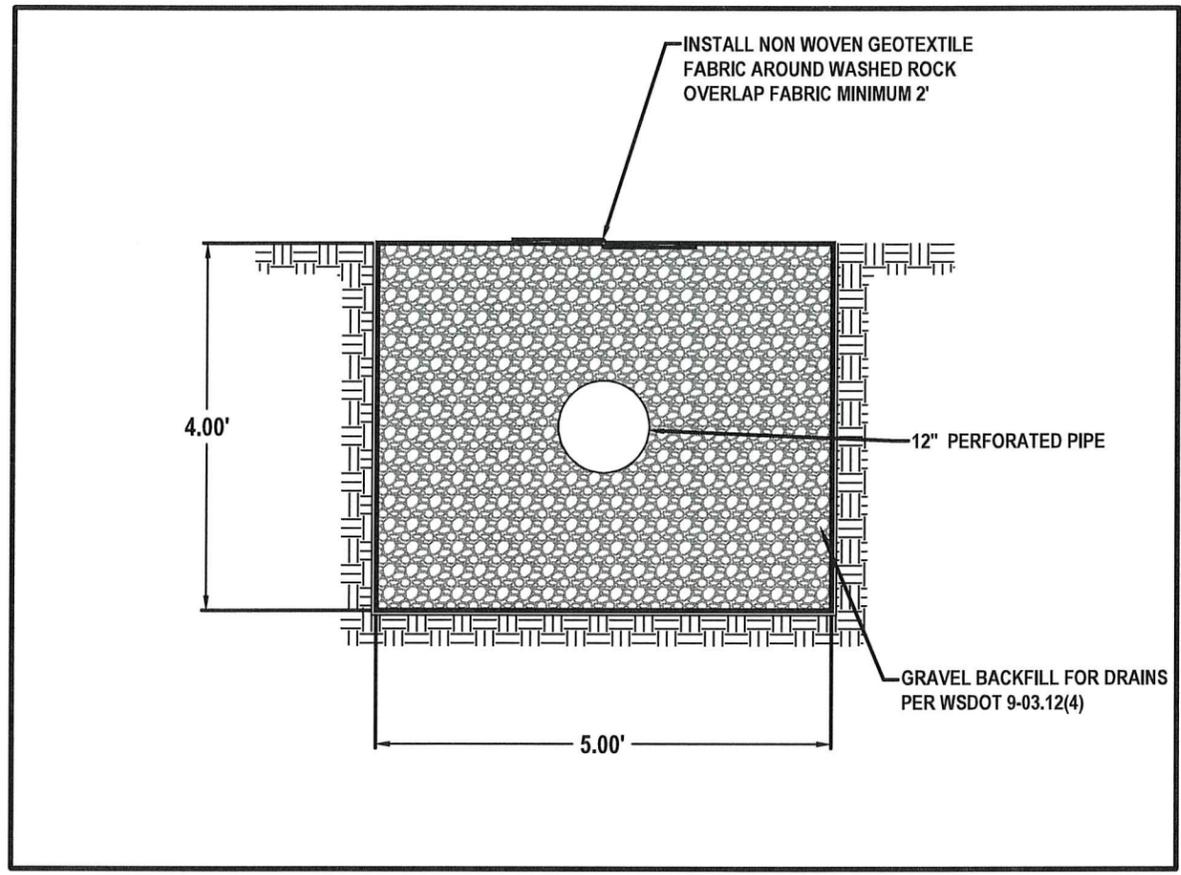
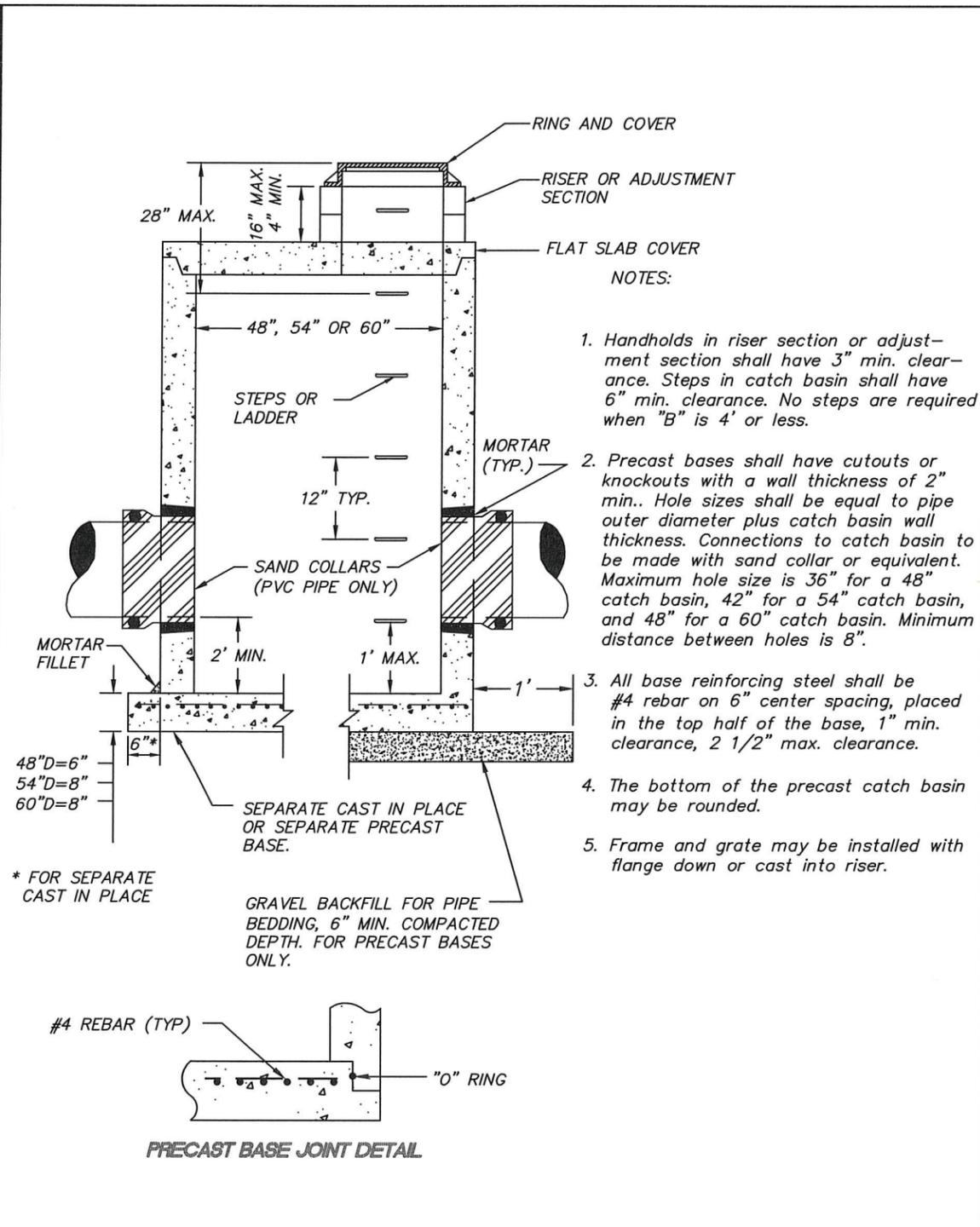


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DD02

30 OF 99



INFILTRATION GALLERY
DETAIL

APPROVED BY	REVISED DATE	CITY OF CENTRALIA	STD. PLAN NO.
CITY ENGINEER	11/2020	CATCH BASIN TYPE 2	9-03
2022 Standard Drawings			

CATCH BASIN TYPE-2
DETAIL

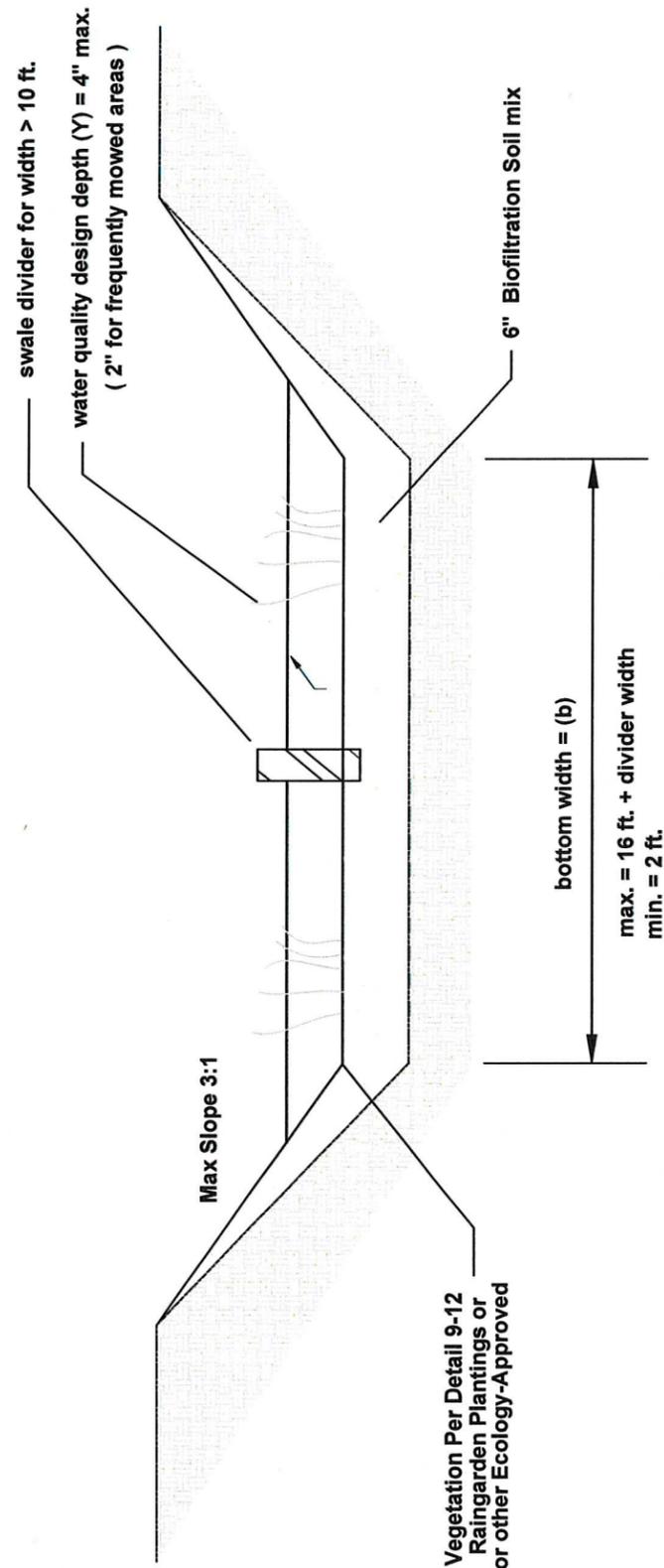
STORM DETAILS

S YEW ST AND SOUTH ST
 IMPROVEMENTS
 PW 2025-07



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Biofiltration Swale



CITY OF CENTRALIA		CITY OF CENTRALIA	
APPROVED BY	REVISED DATE	BIOFILTRATION SWALE	
CITY ENGINEER	08/2022		
2022 Standard Drawings			
STD. PLAN NO.			
9-13			

BIOFILTRATION SWALE
DETAIL



Biofiltration Swale and Stormwater Pond Approved Grasses

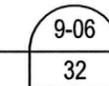
Grass Seed Mixes Suitable for Pond and Swale Treatment Areas			
Mix 1		Mix 2	
75-80 percent	tall or meadow fescue	60-70 percent	tall fescue
10-15 percent	seaside/colonial bentgrass	10-15 percent	seaside/colonial bentgrass
5-10 percent	Redtop	10-15 percent	meadow foxtail
	tall or meadow fescue	6-10 percent	alsike clover
		1-5 percent	marshfield big trefoil
		1-6 percent	Redtop

Note: all percentages are by weight. * based on Briargreen, Inc.

Groundcovers and Grasses Suitable for the Upper Side Slopes of Ponds and Swales	
Groundcovers	
kinnikinnick*	<i>Arctostaphylos uva-ursi</i>
St. John's-wort	<i>Hypericum perforatum</i>
Epimedium	<i>Epimedium gradiflorum</i>
creeping forget-me-not	<i>Omphalodes verna</i>
--	<i>Euonymus lanceolata</i>
yellow-root	<i>Xanthorhiza simplissima</i>
--	<i>Genista</i>
white lawn clover	<i>Trifolium repens</i>
white sweet clover*	<i>Melilotus alba</i>
-----	<i>Rubus calycinoides</i>
strawberry*	<i>Fragaria chiloensis</i>
broadleaf lupine*	<i>Lupinus latifolius</i>
Grasses (drought-tolerant, minimum mowing)	
dwarf tall fescues	<i>Festuca spp. (e.g., Many Mustang, Silverado)</i>
hard fescue	<i>Festuca ovina duriuscula (e.g., Reliant, Aurora)</i>
tufted fescue	<i>Festuca amethystine</i>
buffalo grass	<i>Buchloe dactyloides</i>
red fescue*	<i>Festuca rubra</i>
tall fescue grass*	<i>Festuca arundinacea</i>
blue oatgrass	<i>Helictotrichon sempervirens</i>

APPROVED BY	REVISED DATE	CITY OF CENTRALIA	
CITY ENGINEER	08/2017	APPROVED GRASSES FOR BIOFILTRATION SWALE and STORMWATER POND	9-12
2022 Standard Drawings			

APPROVED GRASSES
DETAIL



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DRAINAGE DETAILS

S YEW ST AND SOUTH ST
IMPROVEMENTS

PW 2025-07

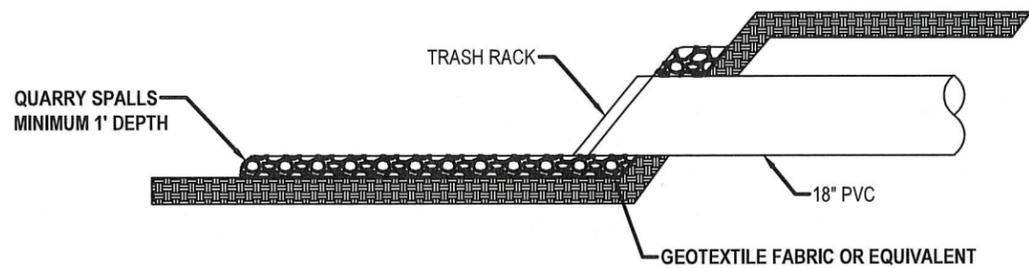
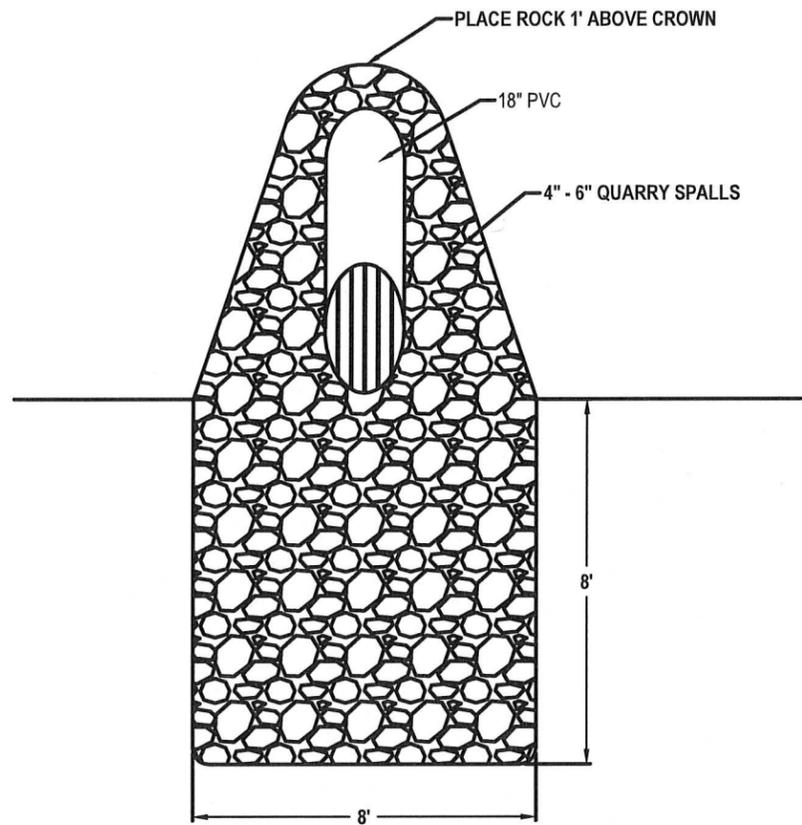


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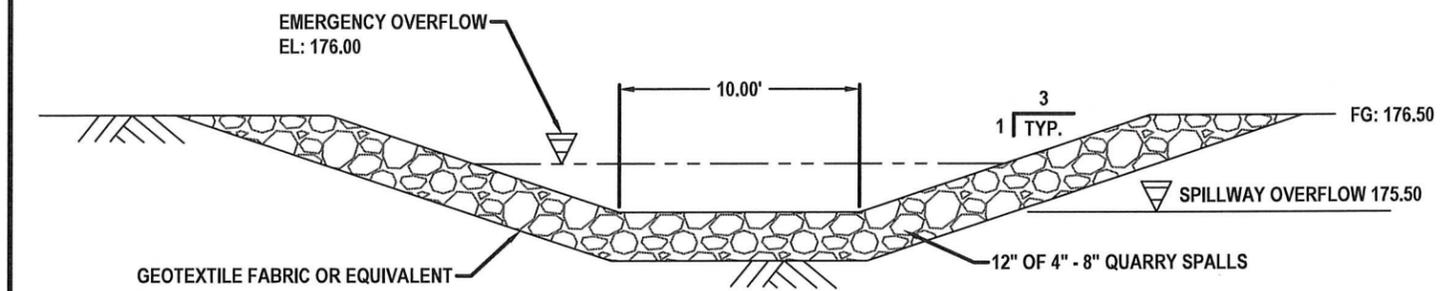
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DD04

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STORM PIPE OUTFALL
DETAIL



STORM POND SPILLWAY OVERFLOW
DETAIL



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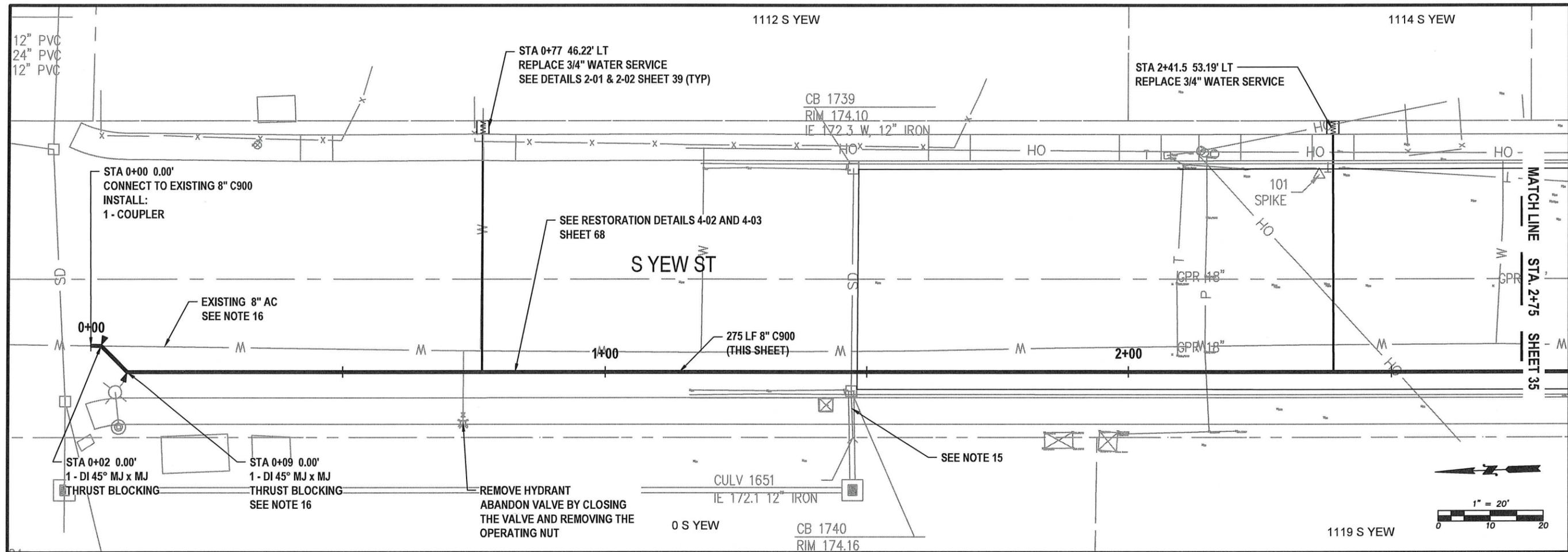
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DD05

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**YEW ST - WATER MAIN
STA 0+00 TO 2+75
PLAN VIEW**

NOTES:

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS SPECIFIED IN THE CONTRACT SPECIFICATIONS AND THESE PLANS.
2. EXISTING UTILITIES SHOWN ON THIS PLAN SHEET ARE FOR REFERENCE ONLY AND ARE NOT EXACT. CONTRACTOR SHALL CALL ONE-CALL LOCATE SERVICE TO DETERMINE LOCATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL FIELD VERIFY UTILITY CROSSINGS AND CONNECTION POINTS BY POT HOLING PRIOR TO CONSTRUCTION. ANY CONFLICTS FOUND WILL BE ADDRESSED BY THE CITY OF CENTRALIA ENGINEERING DEPT. STAFF.
3. ALL EXISTING UTILITIES ARE TO REMAIN IN SERVICE AT ALL TIMES OTHER THAN PLANNED SHUTDOWNS.
4. ALL FITTINGS SHALL BE MEGA-LUG OR APPROVED EQUAL.
5. CONNECTIONS TO EXISTING WATER MAINS SHALL BE MADE WITH APPROVED COUPLER.
6. CONTRACTOR SHALL VERIFY EXISTING PRIVATE SERVICE LINE SIZE AND MATERIAL AND SHALL SUPPLY ALL MATERIALS NEEDED TO RECONNECT TO THE PRIVATE SIDE OF THE NEW METER.
7. RESTORATION IN PAVED AREAS SHALL BE PER DETAIL 4-03 SEE SHEET 68
8. CUSTOMERS SHALL BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO ANY SHUTDOWN.
9. ROADWAY MUST REMAIN OPEN TO LOCAL TRAFFIC BUT CAN BE CLOSED TO THROUGHTRAFFIC FOR DURATION OF THE PROJECT. SUBMIT TRAFFIC CONTROL PLAN FOR REVIEW A MINIMUM OF 5 WORKING DAYS IN ADVANCE OF WORK BEGINNING.
10. PROTECT ALL EXISTING STRUCTURES DURING CONSTRUCTION.
11. CONTRACTOR TO COORDINATE ACCESS TO PROPERTIES DURING CONSTRUCTION. NOTIFY ADJACENT PROPERTY OWNERS A MINIMUM OF 48 HOURS PRIOR TO ACCESS IMPACTS.
12. FENCES, BLOCKS AND ANY OTHER LANDSCAPE MATERIALS IN THE RIGHT OF WAY REQUIRED TO BE REMOVED TO COMPLETE THE WORK SHALL BE PLACED NEATLY ON THE ADJACENT PROPERTY. USE CARE WHEN REMOVING. TAKE PICTURES BEFORE/AFTER REMOVAL AND PROVIDE TO THE ENGINEER.
13. PROTECT ALL LANDSCAPE AREAS OUTSIDE OF THE WORK AREA. RESTORE WITH TOPSOIL/SEED UNLESS OTHERWISE NOTED.
14. RESTORATION OUTSIDE PAVED AREAS IN THE RIGHT OF WAY SHALL BE PER DETAIL 4-02 SEE SHEET 67.
15. ADJUST NEW WATER MAIN DEPTH AS NEEDED TO PASS UNDER EXISTING STORM WITH 18" OF SEPARATION. COMPLETE ADJUSTMENT BY USE OF EITHER DEFLECTION AND/OR FITTINGS
16. WATER MAIN WILL REMAIN IN SERVICE DURING CONSTRUCTION OF NEW MAIN. AFTER NEW WATER MAIN IS TESTED AND IN SERVICE, ABANDON AC WATER MAIN IN PLACE BY PLUGGING PER WSDOT SPEC 7-08.3(4)
17. A PLANNED SHUTDOWN WILL BE REQUIRED TO MAKE CONNECTIONS TO EXISTING WATER MAINS. COORDINATE WITH CITY INSPECTOR AND WATER DEPARTMENT TO IDENTIFY AFFECTED CUSTOMERS FOR NOTIFICATION.

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1100 N. TOWER AVE
CENTRALIA, WA 98531
P: 360.330.7512 F: 360.330.7516
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YEW ST
WATER MAIN
PLAN VIEW
STA 0+00 TO 2+75

S YEW ST AND SOUTH ST
IMPROVEMENTS
PW 2025-07

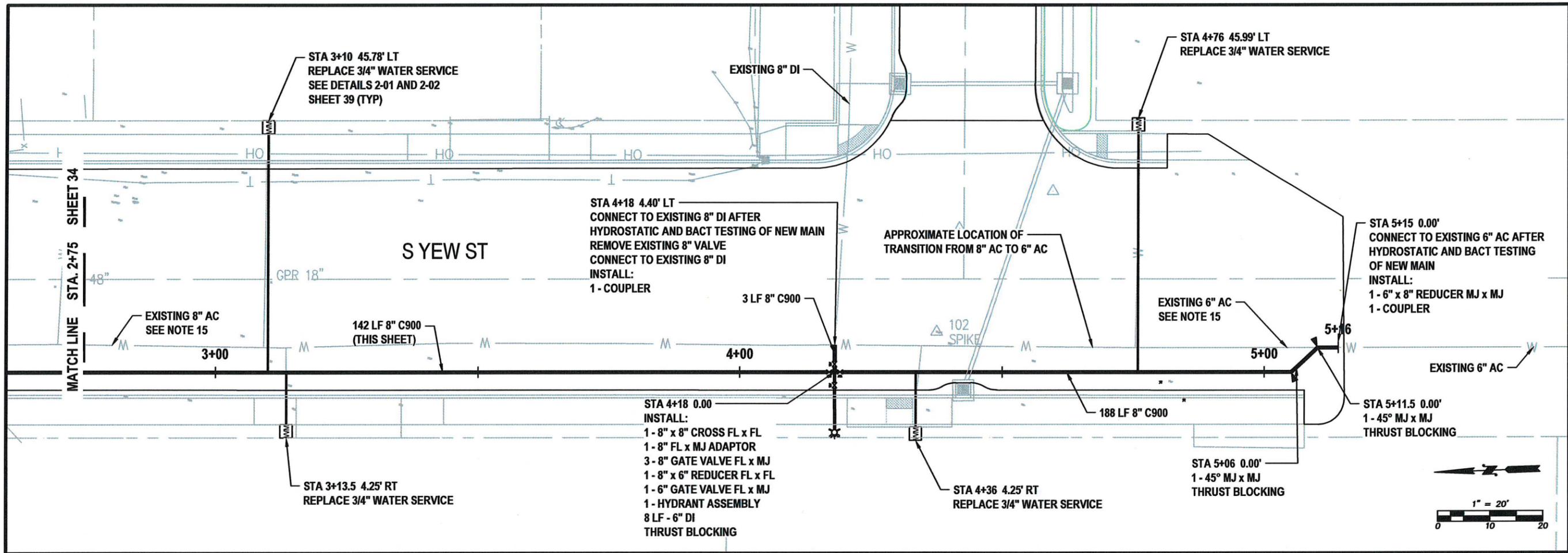


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WT01

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**YEW ST - WATER MAIN
STA 2+75 TO 5+50
PLAN VIEW**

NOTES:

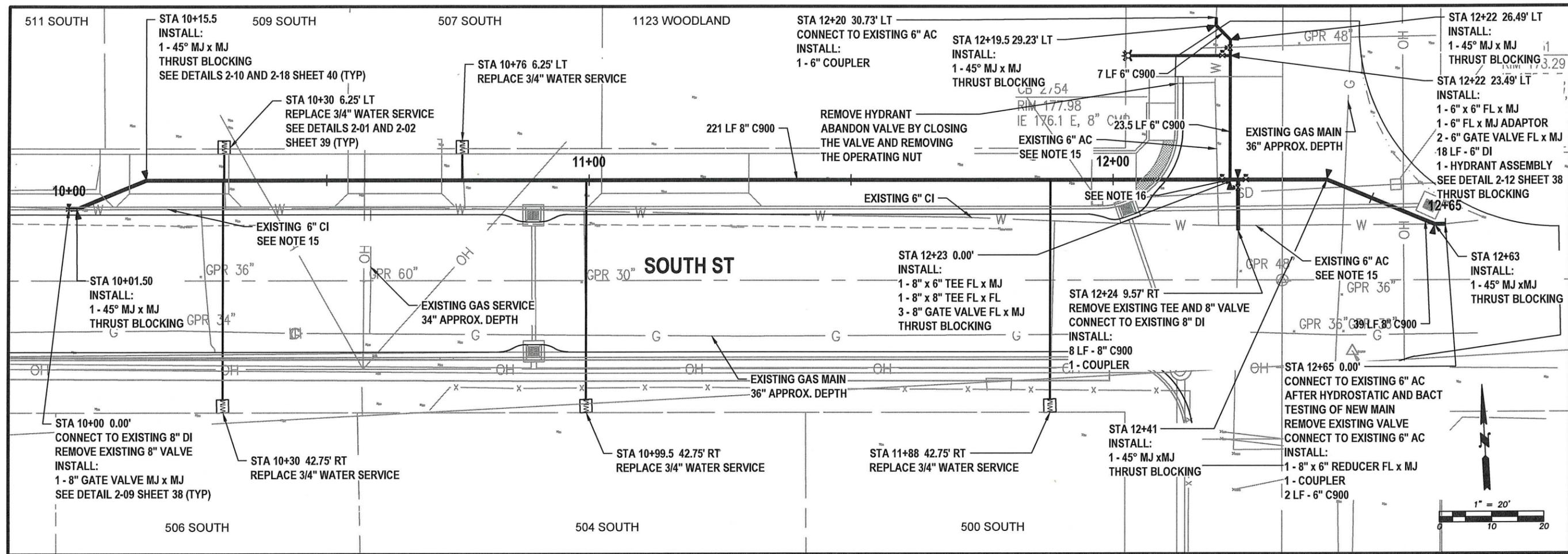
1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS SPECIFIED IN THE CONTRACT SPECIFICATIONS AND THESE PLANS.
2. EXISTING UTILITIES SHOWN ON THIS PLAN SHEET ARE FOR REFERENCE ONLY AND ARE NOT EXACT. CONTRACTOR SHALL CALL ONE-CALL LOCATE SERVICE TO DETERMINE LOCATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL FIELD VERIFY UTILITY CROSSINGS AND CONNECTION POINTS BY POT HOLING PRIOR TO CONSTRUCTION. ANY CONFLICTS FOUND WILL BE ADDRESSED BY THE CITY OF CENTRALIA ENGINEERING DEPT. STAFF.
3. ALL EXISTING UTILITIES ARE TO REMAIN IN SERVICE AT ALL TIMES OTHER THAN PLANNED SHUTDOWNS.
4. ALL FITTINGS SHALL BE MEGA-LUG OR APPROVED EQUAL.
5. CONNECTIONS TO EXISTING WATER MAINS SHALL BE MADE WITH APPROVED COUPLER.
6. CONTRACTOR SHALL VERIFY EXISTING PRIVATE SERVICE LINE SIZE AND MATERIAL AND SHALL SUPPLY ALL MATERIALS NEEDED TO RECONNECT TO THE PRIVATE SIDE OF THE NEW METER.
7. RESTORATION IN PAVED AREAS SHALL BE PER DETAIL 4-03 SEE SHEET 68
8. CUSTOMERS SHALL BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO ANY SHUTDOWN.
9. ROADWAY MUST REMAIN OPEN TO LOCAL TRAFFIC BUT CAN BE CLOSED TO THROUGHTRAFFIC FOR DURATION OF THE PROJECT. SUBMIT TRAFFIC CONTROL PLAN FOR REVIEW A MINIMUM OF 5 WORKING DAYS IN ADVANCE OF WORK BEGINNING.
10. PROTECT ALL EXISTING STRUCTURES DURING CONSTRUCTION.
11. CONTRACTOR TO COORDINATE ACCESS TO PROPERTIES DURING CONSTRUCTION. NOTIFY ADJACENT PROPERTY OWNERS A MINIMUM OF 48 HOURS PRIOR TO ACCESS IMPACTS.
12. FENCES, BLOCKS AND ANY OTHER LANDSCAPE MATERIALS IN THE RIGHT OF WAY REQUIRED TO BE REMOVED TO COMPLETE THE WORK SHALL BE PLACED NEATLY ON THE ADJACENT PROPERTY. USE CARE WHEN REMOVING. TAKE PICTURES BEFORE/AFTER REMOVAL AND PROVIDE TO THE ENGINEER.
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16. A PLANNED SHUTDOWN WILL BE REQUIRED TO MAKE CONNECTIONS TO EXISTING WATER MAINS. COORDINATE WITH CITY INSPECTOR AND WATER DEPARTMENT TO IDENTIFY AFFECTED CUSTOMERS FOR NOTIFICATION.



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CHECKED BY: P. PAGE

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WT02



SOUTH ST - WATER MAIN
STA 10+00 TO 12+65
PLAN VIEW

NOTES:

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS SPECIFIED IN THE CONTRACT SPECIFICATIONS AND THESE PLANS.
2. EXISTING UTILITIES SHOWN ON THIS PLAN SHEET ARE FOR REFERENCE ONLY AND ARE NOT EXACT. CONTRACTOR SHALL CALL ONE-CALL LOCATE SERVICE TO DETERMINE LOCATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL FIELD VERIFY UTILITY CROSSINGS AND CONNECTION POINTS BY POT HOLING PRIOR TO CONSTRUCTION. ANY CONFLICTS FOUND WILL BE ADDRESSED BY THE CITY OF CENTRALIA ENGINEERING DEPT. STAFF.
3. ALL EXISTING UTILITIES ARE TO REMAIN IN SERVICE AT ALL TIMES OTHER THAN PLANNED SHUTDOWNS.
4. ALL FITTINGS SHALL BE MEGA-LUG OR APPROVED EQUAL.
5. CONNECTIONS TO EXISTING WATER MAINS SHALL BE MADE WITH APPROVED COUPLER.
6. CONTRACTOR SHALL VERIFY EXISTING PRIVATE SERVICE LINE SIZE AND MATERIAL AND SHALL SUPPLY ALL MATERIALS NEEDED TO RECONNECT TO THE PRIVATE SIDE OF THE NEW METER.
7. RESTORATION IN PAVED AREAS SHALL BE PER DETAIL 4-03 SEE SHEET 68
8. CUSTOMERS SHALL BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO ANY SHUTDOWN.
9. ROADWAY MUST REMAIN OPEN TO LOCAL TRAFFIC BUT CAN BE CLOSED TO THROUGHTRAFFIC FOR DURATION OF THE PROJECT. SUBMIT TRAFFIC CONTROL PLAN FOR REVIEW A MINIMUM OF 5 WORKING DAYS IN ADVANCE OF WORK BEGINNING.
10. PROTECT ALL EXISTING STRUCTURES DURING CONSTRUCTION.
11. CONTRACTOR TO COORDINATE ACCESS TO PROPERTIES DURING CONSTRUCTION. NOTIFY ADJACENT PROPERTY OWNERS A MINIMUM OF 48 HOURS PRIOR TO ACCESS IMPACTS.
12. FENCES, BLOCKS AND ANY OTHER LANDSCAPE MATERIALS IN THE RIGHT OF WAY REQUIRED TO BE REMOVED TO COMPLETE THE WORK SHALL BE PLACED NEATLY ON THE ADJACENT PROPERTY. USE CARE WHEN REMOVING. TAKE PICTURES BEFORE/AFTER REMOVAL AND PROVIDE TO THE ENGINEER.
13. PROTECT ALL LANDSCAPE AREAS OUTSIDE OF THE WORK AREA. RESTORE WITH TOPSOIL/SEED UNLESS OTHERWISE NOTED.
14. RESTORATION OUTSIDE PAVED AREAS IN THE RIGHT OF WAY SHALL BE PER DETAIL 4-02 SEE SHEET 67.
15. WATER MAIN WILL REMAIN IN SERVICE DURING CONSTRUCTION OF NEW MAIN. AFTER NEW WATER MAIN IS TESTED AND IN SERVICE, ABANDON EXISTING WATER MAINS IN PLACE BY PLUGGING PER WSDOT SPEC 7-08.3(4)
16. ADJUST NEW WATER MAIN DEPTH AS NEEDED TO PASS UNDER EXISTING WATER, STORM AND GAS WITH 18" OF SEPARATION. COMPLETE ADJUSTMENT BY USE OF EITHER DEFLECTION AND/OR FITTINGS.
17. A PLANNED SHUTDOWN WILL BE REQUIRED TO MAKE CONNECTIONS TO EXISTING WATER MAINS. COORDINATE WITH CITY INSPECTOR AND WATER DEPARTMENT TO IDENTIFY AFFECTED CUSTOMERS FOR NOTIFICATION.

CITY OF CENTRALIA
PUBLIC WORKS
ENGINEERING DEPT.
 1100 N. TOWER AVE
 CENTRALIA, WA 98531
 P: 360.330.7512 F: 360.330.7516
 CITY OF CENTRALIA.COM

SOUTH ST
WATER MAIN
PLAN VIEW
STA 10+00 TO 12+65

S YEW ST AND SOUTH ST
IMPROVEMENTS
PW 2025-07



DESIGNED BY: P. PAGE
 DRAWN BY: J. DEBUSK
 SURVEYED BY: J. DEBUSK
 CHECKED BY: P. PAGE

May, 2025

WT03

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**WATER MAIN INSTALLATION
GENERAL NOTES**

1. All workmanship and material shall be in accordance with the City of Centralia standards and the most current copy of the State of Washington Specifications for Road, Bridge and Municipal Construction, Washington Department of Health regulations and American Water Works Association standards.
2. All water lines 12" and larger shall be made of ductile iron, thickness class 52 and a rated working pressure of 350 PSI conforming to AWWA C151. All pipe shall be cement mortar lined per AWWA C104 with push on joints conforming to AWWA C111. Water lines under 12" diameter may be P.V.C. C-900 DR14.
3. Fittings shall be class 250 cement mortar lined ductile iron with mechanical joint or ANSI flanges. All bolted fittings shall be dressed with an Anti-Seize product for protection. All ductile iron fitting connection(s) shall be completed by the use of mega-lugs. When connecting to an existing inline water main, all connections will be made using a Ductile Iron (DI) sleeve, with mega-lugs, or Romac Alpha coupling except when connecting to a AC main where a Hymax coupler (or equal) will be used. All fittings will use 304A or better stainless steel, Corten Steel, or Xylan coated (Blue Bolts) bolts
4. Gate valves shall be resilient wedge, NRS (Non-Rising Stem) with O-ring seals. Valve ends shall be mechanical joint or ANSI flanges. Valves shall conform to AWWA (latest) 509 std. Valves shall be Mueller, M & H, Clow, Waterous, Kennedy or American AVK. Existing valves shall be operated by City employees only.
5. All NIBCO Gate Valves must have brass handles.
6. A valve stem riser shall be installed on all valves where the depth from finish grade to the top of the valve exceeds 1.5'.
7. Fire hydrants shall be 3-port M & H Reliant Style 129, Mueller Centurion, 5 1/4" with steamer port thread of 498. The distance between operating nut and break away flange shall be 32 inches in vertical measurement. All hydrant shoes shall be epoxy coated. Each hydrant shall be provided with a Storz coupler on the steamer port. All hydrants shall be bagged until system is approved.
8. Brass wedges shall be installed in all ductile iron joints for continuity, two (2) per section of pipe. P.V.C. pipe, C.T.S. HDPE sch. 200 psi pipe shall be installed with a toning (tracer) wire. Toning wire shall be UL listed, type UF, solid core, 12 gauge insulated copper and shall be taped to the top of the pipe to prevent movement during backfilling. The wire shall be laid loosely enough to prevent stretching and damage. The wire shall be brought up and tied off at valve body or meter setting.
9. The contractor shall maintain a min. cover of 30 inches and a max. cover of 36 inches over the pipe at all times.
10. All water mains shall be staked for grade and alignment by the design engineer or a licensed land surveyor. All vertical control shall be established using the 1988 USGS Datum.
11. All new water mains shall be filled and chlorinated for a minimum of 24 hrs prior to flushing. Contractor shall coordinate with the City to have lines filled and flushed.
12. Bacteria sampling of potable water lines shall be performed by the City prior to hydrostatic pressure testing. Contractor shall provide an approved sampling bottle from the Lewis County Health Dept., 360 NW North St, Chehalis, WA 98532
13. All pipe and appurtenances shall be hydrostatically tested at 225 PSI (min.) for 15 minutes and witnessed by the City. Fire line testing behind the metering vault shall be coordinated with Riverside Fire authority.
14. Service lines of 3/4" and 1" shall be type "K" copper or copper tubing size (C.T.S.) Blue HDPE Polyethylene, 200 psi pipe. Galvanized fittings shall not be used in construction of service lines.
Note: In soil sensitive areas, service lines may be constructed of HDPE-cl200psi. Toning (tracer) wire is required when using HDPE pipe water mains/services. Services larger than 1" may be Blue HDPE or brass.
15. For any water main tap to existing City mains where the contractor encounters a coupling or existing assemblies, the contractor shall provide a minimum of 18" of clearance from coupling or assemblies to edge of tapping sleeve and the tapping process shall be witnessed by the City with 2 days prior notice.

APPROVED BY	REVISED DATE	CITY OF CENTRALIA	
CITY ENGINEER	08/2024	WATER MAIN INSTALLATION GENERAL NOTES	1 OF 2
2022 Standard Drawings			

WATER GENERAL NOTES
DETAIL



**WATER MAIN INSTALLATION
GENERAL NOTES**

16. Where the water line crosses a sanitary sewer, the water line shall be above the sewer line whenever possible, with a separation of at least 18 inches between the invert of the water line and the crown of the sewer pipe. If this criteria can not be achieved the sewer pipe shall be cased within ductile iron pipe for a distance of 10 feet either side of the water line.
17. All "LONG SIDE SERVICES" shall be cased in 160 psi pipe.
18. Water services noted as "long side" shall require a schedule 160 PVC pipe as a casing to cross the R.O.W.

3/4" service - casing dia. 1.5"	1.5" service - casing dia. 3"
1" service - casing dia. 2"	2" service - casing dia. 3"
19. ALL ASBESTOS PIPE WORKMANSHIP MUST FOLLOW THE GUIDE LINES SET FORTH BY THESE AGENCIES: Southwest Washington Air Pollution Control Authority (SWAPCA) and Labor and Industries (L&I).
20. Call the Underground Location Center at 1-800-424-5555 or 811 at least 48 hours before any excavation.

APPROVED BY	REVISED DATE	CITY OF CENTRALIA	
CITY ENGINEER	08/2024	WATER MAIN INSTALLATION GENERAL NOTES	2 OF 2
2022 Standard Drawings			

**CITY OF CENTRALIA
PUBLIC WORKS
ENGINEERING DEPT.**
 1100 N. TOWER AVE
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 CITY OF CENTRALIA.COM

WATER DETAILS

S YEW ST AND SOUTH ST
 IMPROVEMENTS

PW 2025-07

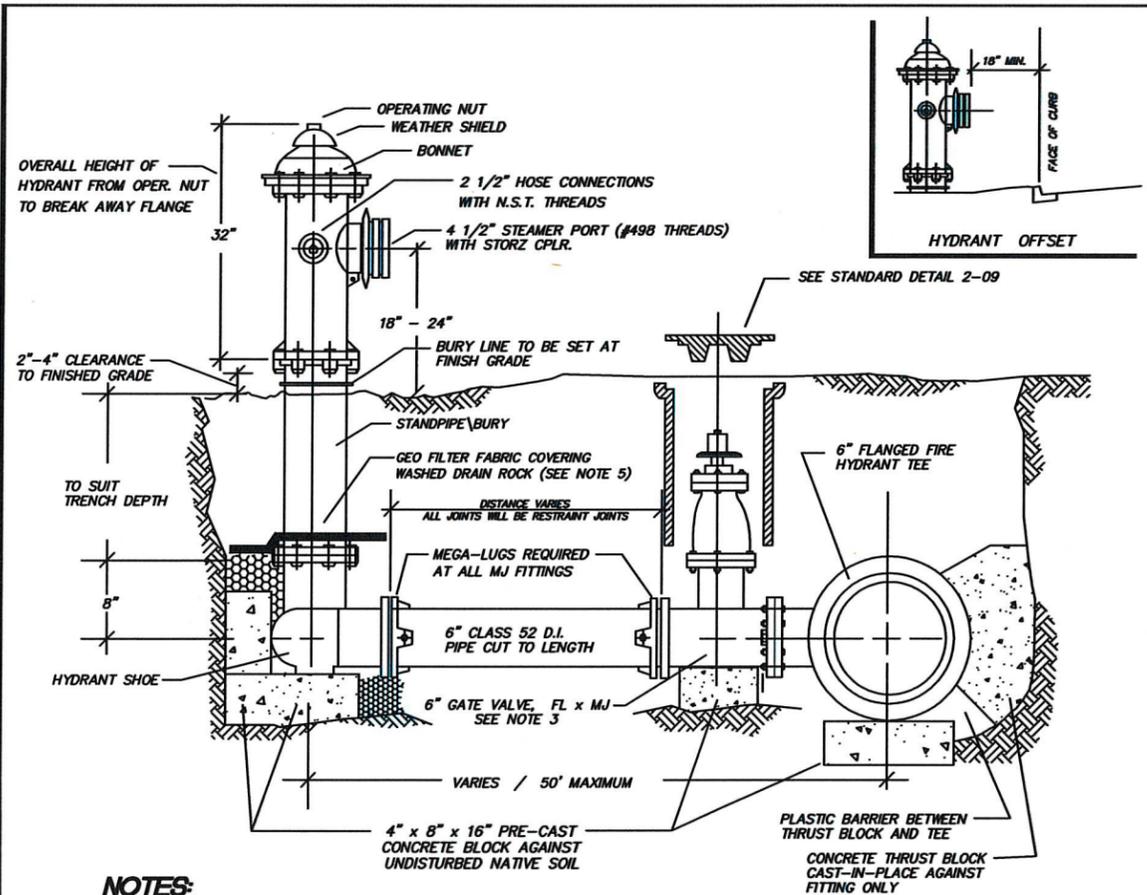


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 DRAWN BY: J. DEBUSK
 SURVEYED BY: J. DEBUSK
 CHECKED BY: P. PAGE

May, 2025

WD01

37 OF 99

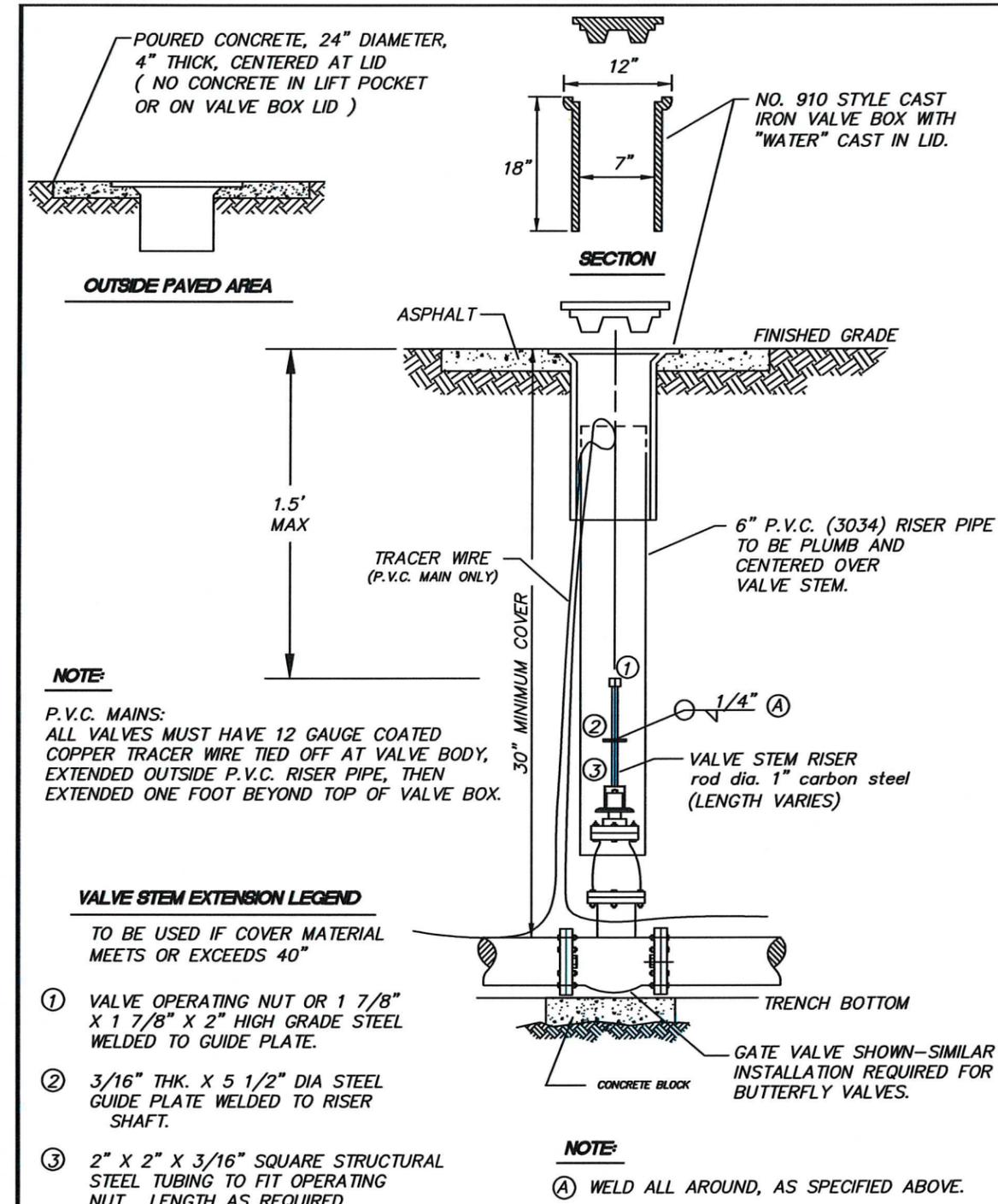


NOTES:

- HYDRANTS SHALL BE LOCATED WITH A MINIMUM FIVE FOOT RADIUS UNOBSTRUCTED WORKING AREA PROVIDED, AND IN NO CASE SHALL BE LOCATED IN SIDEWALK.
- HYDRANT SHALL BE WATEROUS CLASSIC PACER WB67-250, DRESSER M&H RELIANT STYLE 129 OR MUELLER CENTURION CHECK VERTICAL DISTANCE BETWEEN OPERATING NUT AND BREAK AWAY FLANGE (31-32 inches).
- HYDRANTS SHALL BE PAINTED SUNBURST YELLOW - HIGH GRADE ENAMEL, AFTER INSTALLATION
- HYDRANTS SHALL HAVE A MINIMUM BURY OF 30 INCHES
- GATE VALVES SHALL BE RESILIENT WEDGE NRS WITH 0-RING SEALS. VALVE ENDS SHALL BE MECHANICAL JOINT BY ANSI FLANGES. VALVES SHALL CONFORM TO AWWA C515.
- FILTER FABRIC MATERIAL SHALL BE USED IN CONJUNCTION WITH THE USE OF DRAIN ROCK. THE APPLICATION OF THE FILTER FABRIC MATERIAL SHALL MINIMIZE THE IMPACT OF THE NATIVE SOIL IN THE FUNCTION OF THE DRAIN ROCK.
- ALL MECHANICAL BOLTS TO FITTINGS SHALL HAVE ANTI-SEIZE COMPOUND APPLIED TO THE BOLTS
- POURED IN PLACE CONCRETE BLOCKING, BLOCK SIZE - (2 FT. WIDE, 2 FT. DEEP, AND 2 FT. MIN. LENGTH TO UNDISTURBED NATIVE SOIL - NOTE LENGTH IS A VARIABLE DEPENDING UPON DISTANCE TO UNDISTURBED NATIVE SOIL.
- ALL HYDRANTS SHALL HAVE EPOXY COATED SHOE.
- 4" x 8" x 16" PRE-CAST CONCRETE BLOCKS REQUIRED AT EACH TEE, VALVE AND UNDER/BEHIND HYDRANT SHOE.
- SEE HYDRANT PAD DETAIL FOR DITCH CROSSINGS AND EMBANKMENT APPLICATIONS

APPROVED BY	REVISED DATE	CITY OF CENTRALIA	STD. PLAN NO.
CITY ENGINEER	01/2024	FIRE HYDRANT DETAIL	2-12
2022 Standard Drawings			

FIRE HYDRANT
DETAIL



NOTE:

P.V.C. MAINS:
ALL VALVES MUST HAVE 12 GAUGE COATED COPPER TRACER WIRE TIED OFF AT VALVE BODY, EXTENDED OUTSIDE P.V.C. RISER PIPE, THEN EXTENDED ONE FOOT BEYOND TOP OF VALVE BOX.

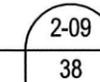
VALVE STEM EXTENSION LEGEND

TO BE USED IF COVER MATERIAL MEETS OR EXCEEDS 40"

- VALVE OPERATING NUT OR 1 7/8" X 1 7/8" X 2" HIGH GRADE STEEL WELDED TO GUIDE PLATE.
- 3/16" THK. X 5 1/2" DIA STEEL GUIDE PLATE WELDED TO RISER SHAFT.
- 2" X 2" X 3/16" SQUARE STRUCTURAL STEEL TUBING TO FIT OPERATING NUT. LENGTH AS REQUIRED.

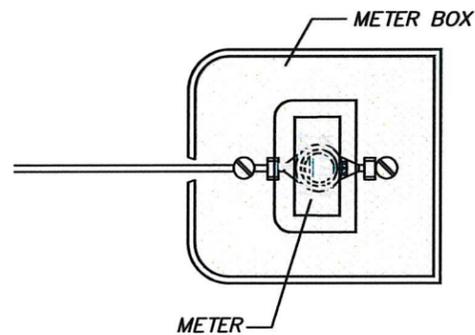
APPROVED BY	REVISED DATE	CITY OF CENTRALIA	STD. PLAN NO.
CITY ENGINEER	02/2020	STANDARD VALVE BOX	2-09
2022 Standard Drawings			

STANDARD VALVE BOX
DETAIL

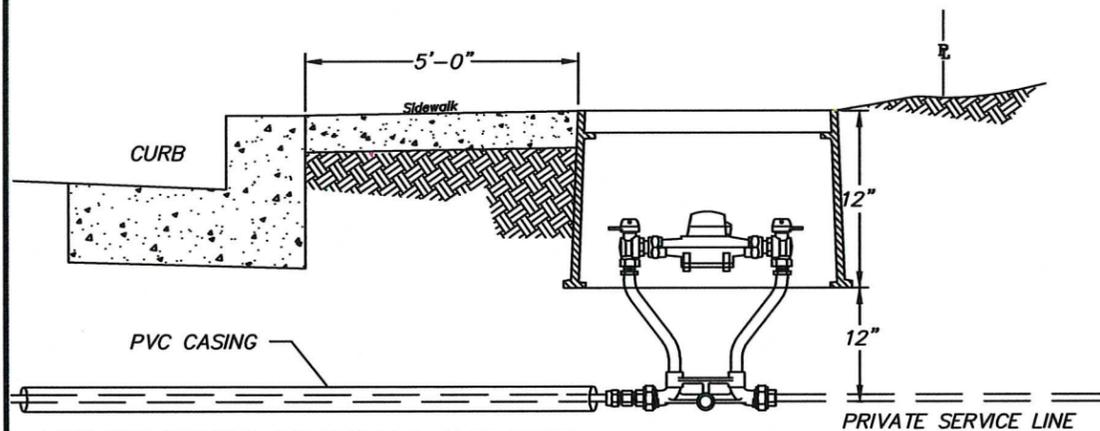


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May, 2025



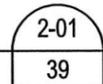
METER BOX - TYPE - Carson Heavy Wall as shown on the detail for specific meter size DUCTILE IRON COVER w/ FLIP READER LIDS, as shown on details All appurtenances placed inside meter box shall be centered to operate valves and read the meter.



LONG SIDE SERVICES ARE REQUIRED TO BE CASED
SEE DETAILS ON WATER MAIN INSTALLATION GENERAL NOTES SECTION

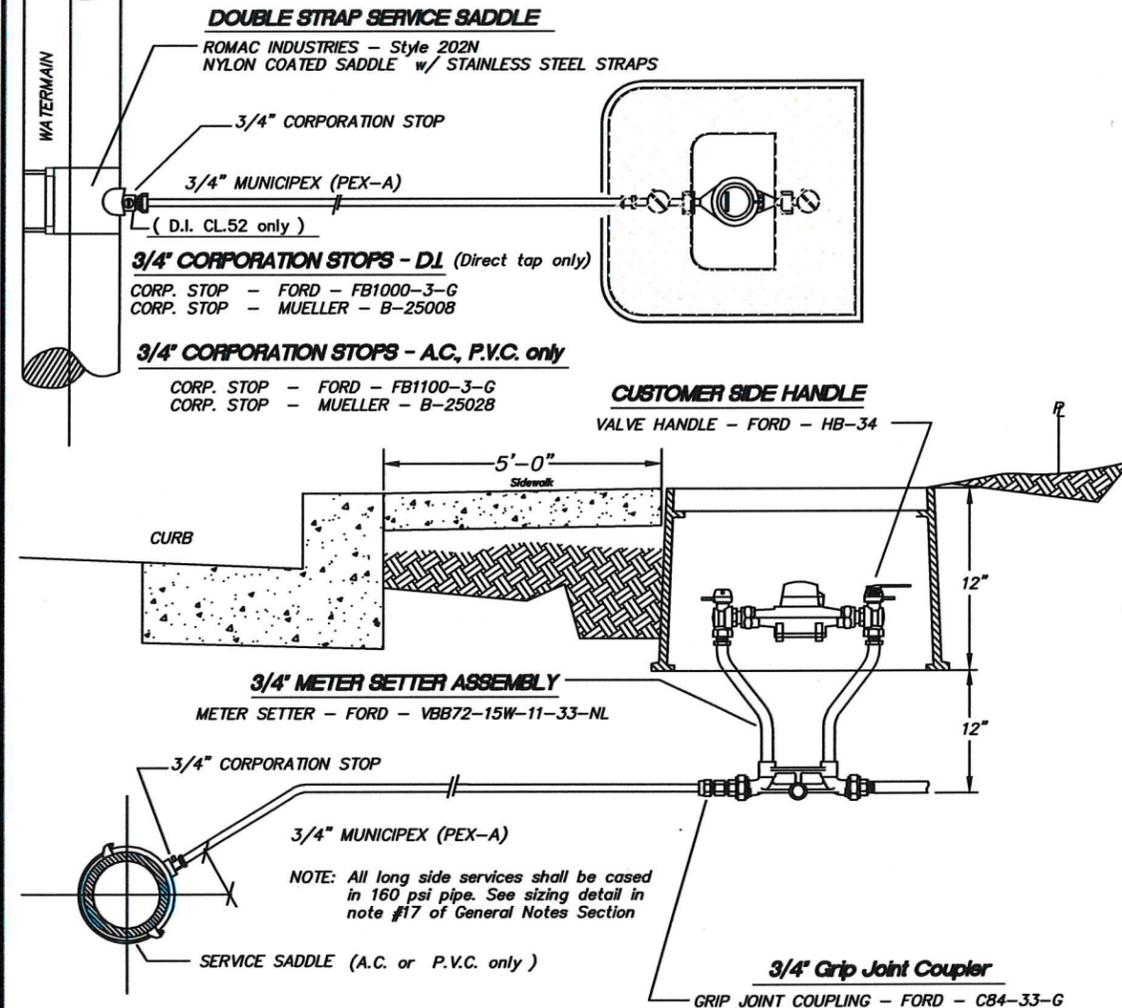
APPROVED BY	REVISED DATE	CITY OF CENTRALIA	STD. PLAN NO.
CITY ENGINEER	04/2019	TYPICAL METER PLACEMENT	2-01
2022 Standard Drawings			

TYPICAL METER PLACEMENT
DETAIL



METER BOX ASSEMBLY

Carson Heavy Wall 1324 MSBC
DUCTILE IRON COVER w/ FLIP READER LIDS, # 1324 MSBC

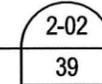


NOTES:

- ALL SERVICE SADDLES SHALL HAVE RUBBER GASKET, I.P. THREADS AND NYLON COATED.
- IN APPROVED SOIL SENSITIVE AREAS HDPE MAINS AND SERVICE LINES ARE REQUIRED. A TONING (tracer) WIRE, UL LISTED, TYPE UF, SOLID CORE, 12 GAUGE INSULATED COPPER IS REQUIRED. AN IDEAL TWISTER DB PLUS WIRE CONNECTOR, MODEL 60 IS REQUIRED TO CONNECT TRACER WIRES TOGETHER (i.e. tracer wire extension from spool to spool, service to main, main to main at intersections, and hydrant to main installations). Blue HDPE CTS shall be substituted for type K copper in service lines.
- DUCTILE IRON MAINS SHALL BE DIRECT TAPPED ONLY
- ASBESTOS CEMENT (A.C.) AND PVC MAINS SHALL REQUIRE A SADDLE FOR TAPPING
- STAINLESS STEEL PIPE STIFFENERS ARE REQUIRED WHERE HDPE PIPE IS USED

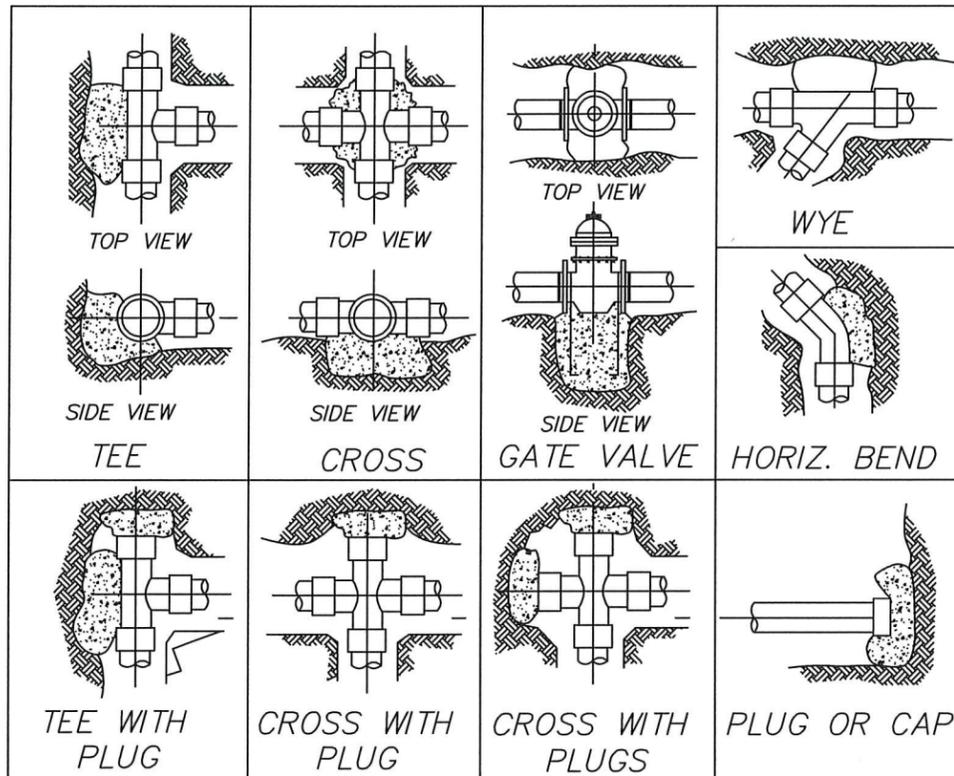
APPROVED BY	REVISED DATE	CITY OF CENTRALIA	STD. PLAN NO.
CITY ENGINEER	02/2020	3/4" SINGLE METER SERVICE STANDARD	2-02

3/4" SINGLE METER
DETAIL



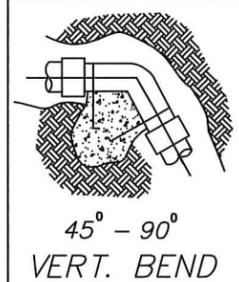
DESIGNED BY: P. PAGE
DRAWN BY: J. DEBUSK
SURVEYED BY: J. DEBUSK
CHECKED BY: P. PAGE

May, 2025



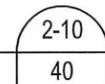
NOTES:

1. CONCRETE THRUST BLOCKING TO BE POURED AGAINST UNDISTURBED EARTH.
2. PLASTIC BARRIER (12 ML.), SHALL BE PLACED BETWEEN ALL THRUST BLOCKS & FITTINGS
3. ANCHOR REBAR SHALL BE #8 ON 12" DIA. AND LESS WITH 30" EMBEDMENT, #8 ON 16"-24" DIAMETER WITH 36" EMBEDMENT.
4. ALL FITTINGS TO BE MJ-MEGA LUG RETAINER GLANDS
5. PLUGS TO BE MINIMUM OF 5' FROM TEE, WYE OR CROSS ON VALVE
6. ALL MECHANICAL BOLTS TO FITTINGS SHALL HAVE ANTI-SEIZE COMPOUND APPLIED TO THE BOLTS
7. NO CONCRETE WILL COME IN CONTACT WITH ANY MECHANICAL JOINTS



APPROVED BY	REVISED DATE	CITY OF CENTRALIA	STD. PLAN NO.
CITY ENGINEER	06/2017	STANDARD BLOCKING DETAIL	2-10
2022 Standard Drawings			

STANDARD BLOCKING
DETAIL



THRUST LOADS

THRUST AT FITTINGS IN POUNDS AT 200 POUNDS PER SQUARE INCH OF WATER PRESSURE

PIPE DIAMETER	90° BEND	45° BEND	22-1/2° BEND	11-1/4° BEND	DEAD END OR TEE
4"	3,600	2,000	1,000	500	2,600
6"	8,000	4,400	2,300	1,200	5,700
8"	14,300	7,700	4,000	2,000	10,100
10"	22,300	12,100	6,200	3,100	15,800
12"	32,000	17,400	8,900	4,500	22,700
14"	43,600	23,600	12,100	6,100	30,800
16"	57,000	30,800	15,700	7,900	40,300

NOTES:

1. BLOCKING SHALL BE CEMENT CONCRETE CLASS "B" POURED IN PLACE AGAINST UNDISTURBED EARTH. FITTING SHALL BE ISOLATED FROM CONCRETE THRUST BLOCK WITH PLASTIC OR SIMILAR MATERIAL.
2. TO DETERMINE THE BEARING AREA OF THE THRUST BLOCK IN SQUARE FEET (S.F.):
EXAMPLE: 12" - 90 DEG. BEND IN SAND AND GRAVEL
32,000 LBS : 3000 LB/S.F. = 10.7 S.F. OF AREA
3. AREAS MUST BE ADJUSTED FOR OTHER PIPE SIZE, PRESSURES AND SOIL CONDITIONS.
4. BLOCKING SHALL BE ADEQUATE TO WITHSTAND FULL TEST PRESSURE AS WELL AS TO CONTINUOUSLY WITHSTAND OPERATING PRESSURE UNDER ALL CONDITIONS OF SERVICE.
5. BLOCKING FOR PIPES LESS THAN 4" DIA. WILL USE 4" PIPE VALUES.

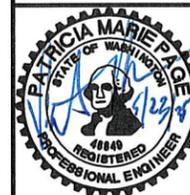
SAFE SOIL BEARING LOADS

FOR HORIZONTAL THRUSTS WHEN THE DEPTH OF COVER OVER THE PIPE EXCEEDS 2 FEET

SOIL	POUNDS PER SQUARE FOOT
MUCK, PEAT	0
SOFT CLAY	1,000
SAND	2,000
SAND & GRAVEL	3,000
SAND & GRAVEL CEMENTED WITH CLAY	4,000
HARD SHALE	10,000

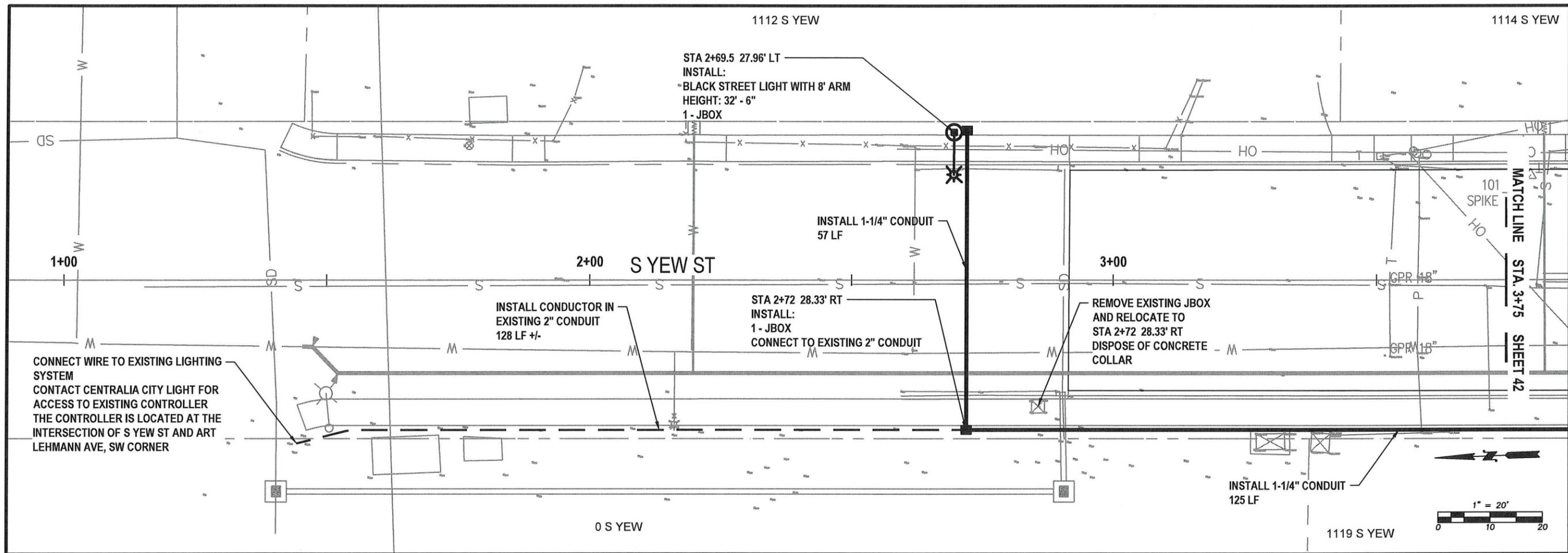
APPROVED BY	REVISED DATE	CITY OF CENTRALIA	STD. PLAN NO.
CITY ENGINEER	06/2017	THRUST LOADS	2-18
2022 Standard Drawings			

THRUST LOADS
DETAIL



DESIGNED BY: P. PAGE
DRAWN BY: J. DEBUSK
SURVEYED BY: J. DEBUSK
CHECKED BY: P. PAGE

May, 2025



YEW ST - LIGHTING
STA 1+00 TO 3+75
PLAN VIEW

NOTES:

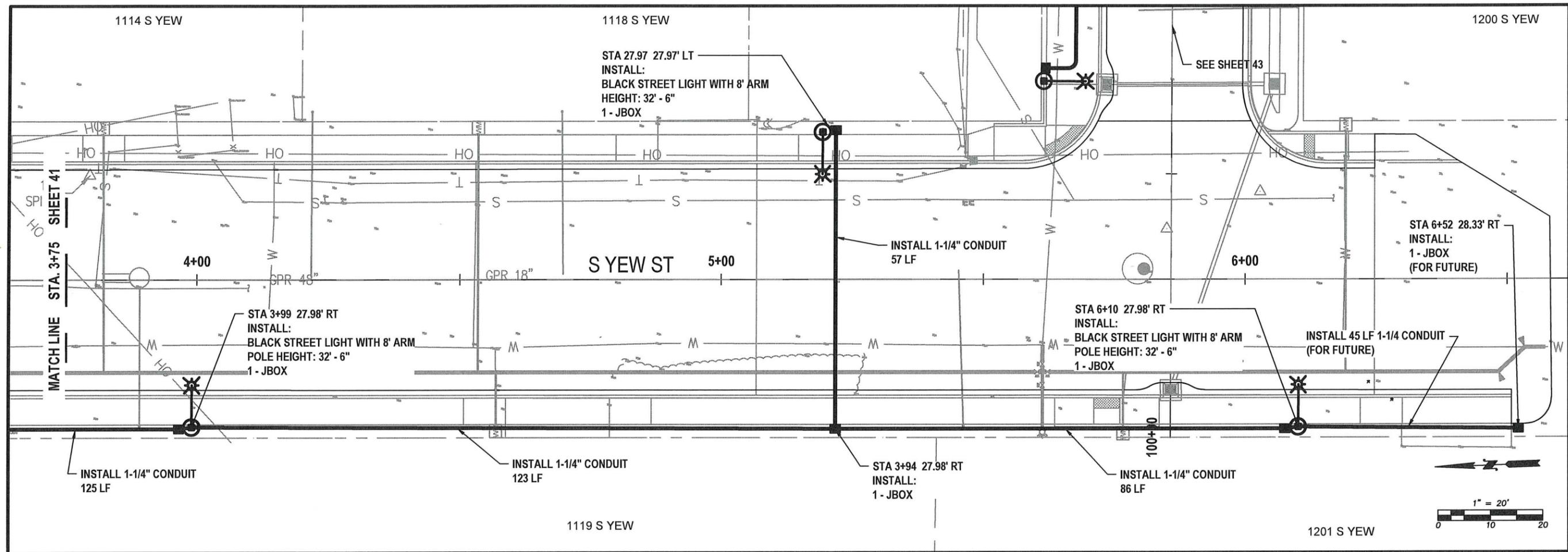
1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS SPECIFIED IN THE CONTRACT SPECIFICATIONS AND THESE PLANS.
2. EXISTING UTILITIES SHOWN ON THIS PLAN SHEET ARE FOR REFERENCE ONLY AND ARE NOT EXACT. CONTRACTOR SHALL CALL ONE-CALL LOCATE SERVICE TO DETERMINE LOCATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL FIELD VERIFY UTILITY CROSSINGS AND CONNECTION POINTS BY POT HOLING PRIOR TO CONSTRUCTION. ANY CONFLICTS FOUND WILL BE ADDRESSED BY THE CITY OF CENTRALIA ENGINEERING DEPT. STAFF.
3. ALL EXISTING UTILITIES ARE TO REMAIN IN SERVICE AT ALL TIMES OTHER THAN PLANNED SHUTDOWNS.
4. CONTRACTOR SHALL VERIFY EXISTING PRIVATE SERVICE LINE SIZE AND MATERIAL AND SHALL SUPPLY ALL MATERIALS NEEDED TO RECONNECT TO THE PRIVATE SIDE OF THE NEW METER.
5. RESTORATION IN PAVED AREAS SHALL BE PER DETAIL 4-03 SEE SHEET 68
6. ROADWAY MUST REMAIN OPEN TO LOCAL TRAFFIC BUT CAN BE CLOSED TO THROUGHTRAFFIC FOR DURATION OF THE PROJECT. SUBMIT TRAFFIC CONTROL PLAN FOR REVIEW A MINIMUM OF 5 WORKING DAYS IN ADVANCE OF WORK BEGINNING.
7. PROTECT ALL EXISTING STRUCTURES DURING CONSTRUCTION.
8. CONTRACTOR TO COORDINATE ACCESS TO PROPERTIES DURING CONSTRUCTION. NOTIFY ADJACENT PROPERTY OWNERS A MINIMUM OF 48 HOURS PRIOR TO ACCESS IMPACTS.
9. FENCES, BLOCKS AND ANY OTHER LANDSCAPE MATERIALS IN THE RIGHT OF WAY REQUIRED TO BE REMOVED TO COMPLETE THE WORK SHALL BE PLACED NEATLY ON THE ADJACENT PROPERTY. USE CARE WHEN REMOVING. TAKE PICTURES BEFORE/AFTER REMOVAL AND PROVIDE TO THE ENGINEER.
10. PROTECT ALL LANDSCAPE AREAS OUTSIDE OF THE WORK AREA. RESTORE WITH TOPSOIL/SEED UNLESS OTHERWISE NOTED.
11. RESTORATION OUTSIDE PAVED AREAS IN THE RIGHT OF WAY SHALL BE PER DETAIL 4-02 SEE SHEET 67.
12. THE CONTRACTOR WILL BE RESPONSIBLE FOR INSTALLING THE LIGHT POLE FOUNDATIONS, LIGHT POLES, J-BOXES, CONDUIT AND CONDUCTOR NECESSARY FOR THE NEW STREET LIGHTING SYSTEM TO FUNCTION
13. THE CONTRACTOR WILL COORDINATE WITH CENTRALIA CITY LIGHT WHEN THE LIGHTING SYSTEM IS COMPLETE FOR CONNECTION TO EXISTING SYSTEM OR CONTROLLER.
14. SEE SHEETS 51 AND 52 FOR LIGHTING REQUIREMENTS.



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 DRAWN BY: J. DEBUSK
 SURVEYED BY: J. DEBUSK
 CHECKED BY: P. PAGE

May, 2025

LT01



YEW ST - LIGHTING
STA 3+75 TO 6+50
PLAN VIEW

NOTES:

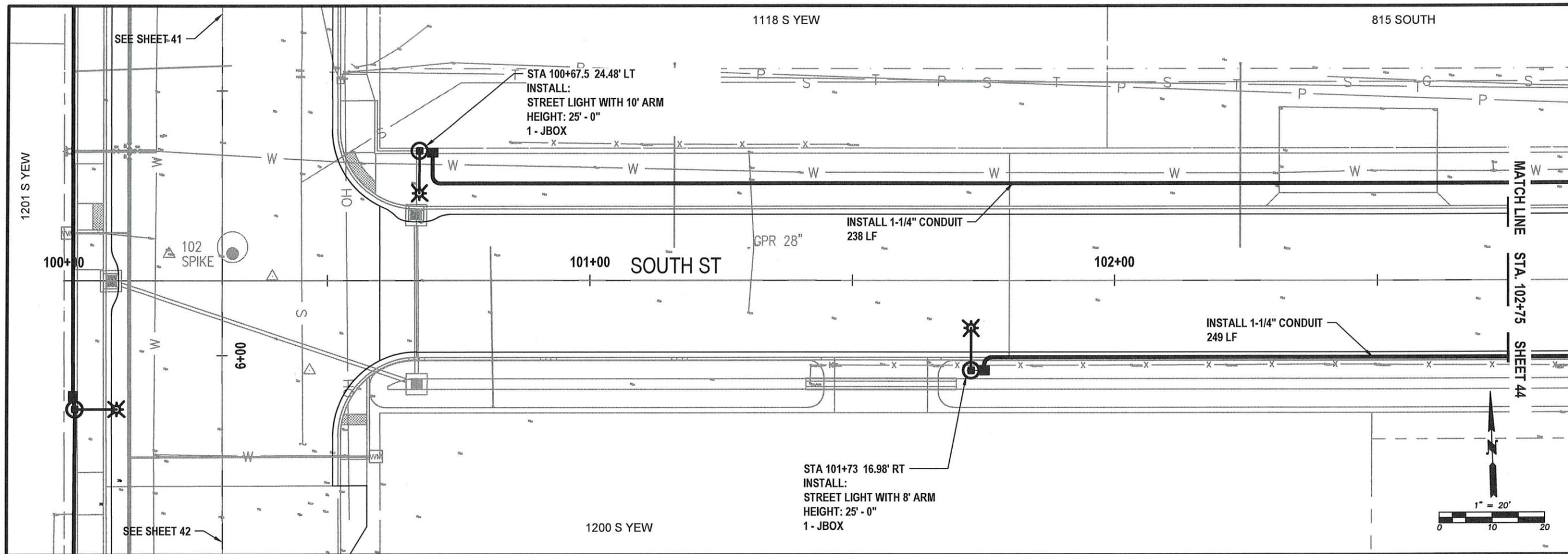
1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS SPECIFIED IN THE CONTRACT SPECIFICATIONS AND THESE PLANS.
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3. ALL EXISTING UTILITIES ARE TO REMAIN IN SERVICE AT ALL TIMES OTHER THAN PLANNED SHUTDOWNS.
4. CONTRACTOR SHALL VERIFY EXISTING PRIVATE SERVICE LINE SIZE AND MATERIAL AND SHALL SUPPLY ALL MATERIALS NEEDED TO RECONNECT TO THE PRIVATE SIDE OF THE NEW METER.
5. RESTORATION IN PAVED AREAS SHALL BE PER DETAIL 4-03 SEE SHEET 68
6. ROADWAY MUST REMAIN OPEN TO LOCAL TRAFFIC BUT CAN BE CLOSED TO THROUGHTRAFFIC FOR DURATION OF THE PROJECT. SUBMIT TRAFFIC CONTROL PLAN FOR REVIEW A MINIMUM OF 5 WORKING DAYS IN ADVANCE OF WORK BEGINNING.
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10. PROTECT ALL LANDSCAPE AREAS OUTSIDE OF THE WORK AREA. RESTORE WITH TOPSOIL/SEED UNLESS OTHERWISE NOTED.
11. RESTORATION OUTSIDE PAVED AREAS IN THE RIGHT OF WAY SHALL BE PER DETAIL 4-02 SEE SHEET 67.
12. THE CONTRACTOR WILL BE RESPONSIBLE FOR INSTALLING THE LIGHT POLE FOUNDATIONS, LIGHT POLES, J-BOXES, CONDUIT AND CONDUCTOR NECESSARY FOR THE NEW STREET LIGHTING SYSTEM TO FUNCTION
13. THE CONTRACTOR WILL COORDINATE WITH CENTRALIA CITY LIGHT WHEN THE LIGHTING SYSTEM IS COMPLETE FOR CONNECTION TO EXISTING SYSTEM OR CONTROLLER.
14. SEE SHEETS 51 AND 52 FOR LIGHTING REQUIREMENTS.



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 DRAWN BY: J. DEBUSK
 SURVEYED BY: J. DEBUSK
 CHECKED BY: P. PAGE

May, 2025

LT02



SOUTH ST - LIGHTING
STA 100+00 TO 102+75
PLAN VIEW

NOTES:

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS SPECIFIED IN THE CONTRACT SPECIFICATIONS AND THESE PLANS.
2. EXISTING UTILITIES SHOWN ON THIS PLAN SHEET ARE FOR REFERENCE ONLY AND ARE NOT EXACT. CONTRACTOR SHALL CALL ONE-CALL LOCATE SERVICE TO DETERMINE LOCATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL FIELD VERIFY UTILITY CROSSINGS AND CONNECTION POINTS BY POT HOLING PRIOR TO CONSTRUCTION. ANY CONFLICTS FOUND WILL BE ADDRESSED BY THE CITY OF CENTRALIA ENGINEERING DEPT. STAFF.
3. ALL EXISTING UTILITIES ARE TO REMAIN IN SERVICE AT ALL TIMES OTHER THAN PLANNED SHUTDOWNS.
4. CONTRACTOR SHALL VERIFY EXISTING PRIVATE SERVICE LINE SIZE AND MATERIAL AND SHALL SUPPLY ALL MATERIALS NEEDED TO RECONNECT TO THE PRIVATE SIDE OF THE NEW METER.
5. RESTORATION IN PAVED AREAS SHALL BE PER DETAIL 4-03 SEE SHEET 68
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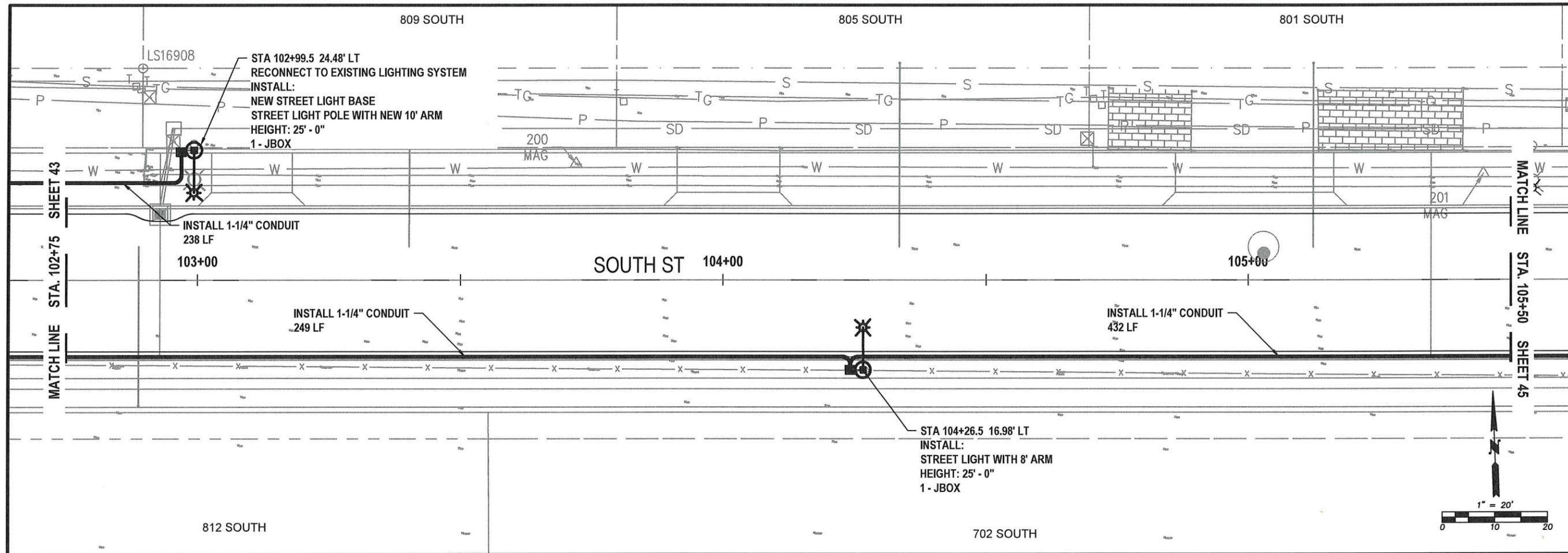


DESIGNED BY: P. PAGE
 DRAWN BY: J. DEBUSK
 SURVEYED BY: J. DEBUSK
 CHECKED BY: P. PAGE

May, 2025

LT03

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**SOUTH ST - LIGHTING
STA 102+75 TO 105+50
PLAN VIEW**

NOTES:

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**CITY OF CENTRALIA
PUBLIC WORKS
ENGINEERING DEPT.**
1100 N. TOWER AVE
CENTRALIA, WA 98531
P: 360.330.7512 F: 360.330.7516
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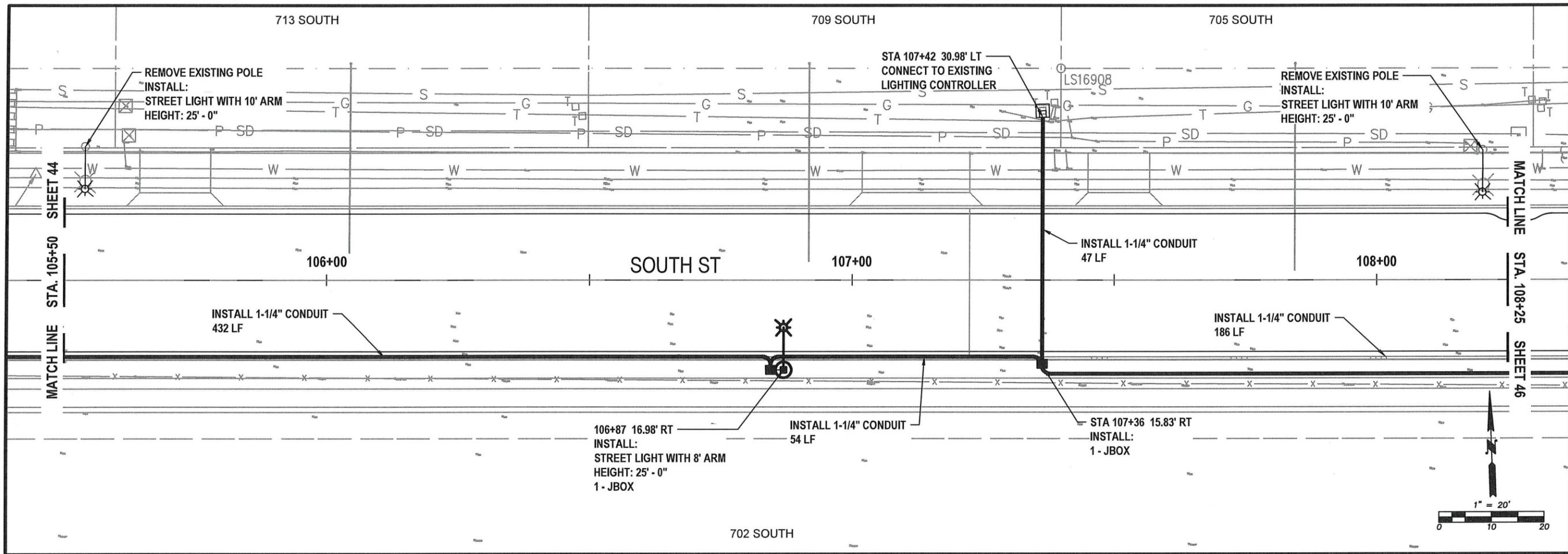
**SOUTH ST
LIGHTING
PLAN VIEW**
STA 102+75 TO 105+50

**S YEW ST AND SOUTH ST
IMPROVEMENTS**
PW 2025-07



DESIGNED BY: P. PAGE
DRAWN BY: J. DEBUSK
SURVEYED BY: J. DEBUSK
CHECKED BY: P. PAGE
May, 2025

LT04
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SOUTH ST - LIGHTING
STA 105+50 TO 108+25
PLAN VIEW

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 CENTRALIA, WA 98531
 P: 360.330.7512 F: 360.330.7516
 CITY OF CENTRALIA.COM

SOUTH ST
LIGHTING
PLAN VIEW
STA 105+50 TO 108+25

S YEW ST AND SOUTH ST
IMPROVEMENTS
PW 2025-07

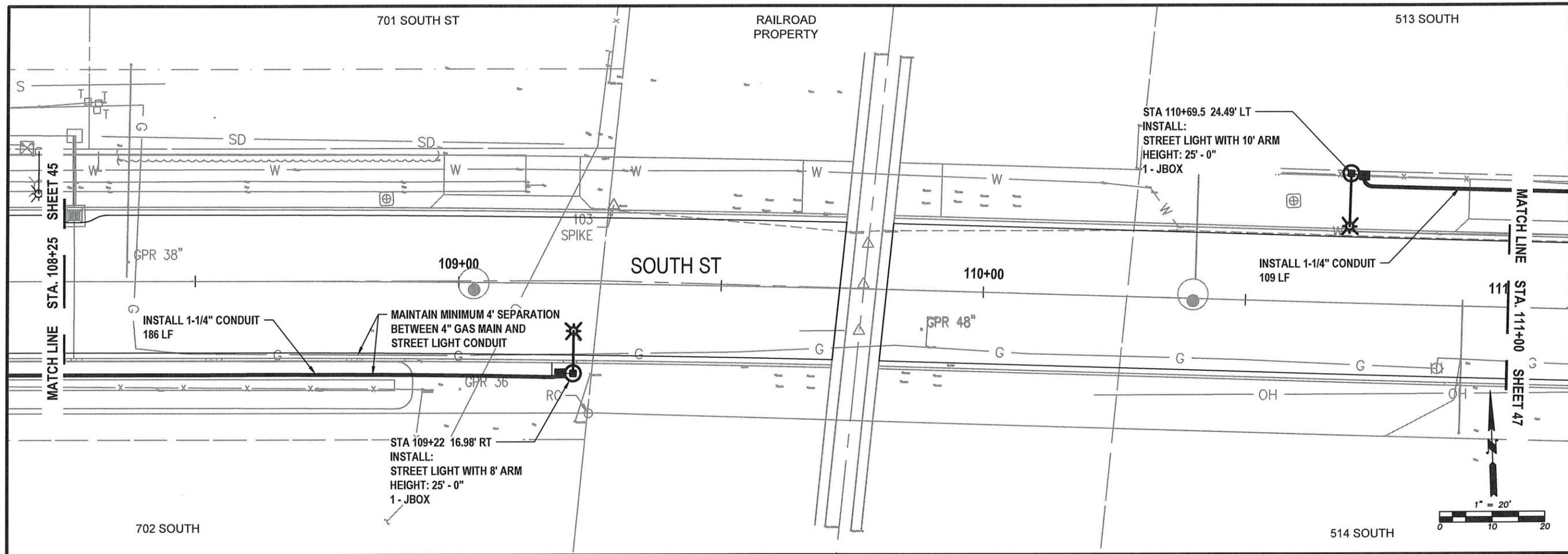


DESIGNED BY: P. PAGE
 DRAWN BY: J. DEBUSK
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 CHECKED BY: P. PAGE

May, 2025

LT05

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SOUTH ST - LIGHTING
STA 108+25 TO 111+00
PLAN VIEW

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 CENTRALIA, WA 98531
 P: 360.330.7512 F: 360.330.7516
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SOUTH ST
LIGHTING
PLAN VIEW
 STA 108+25 TO 111+00

S YEW ST AND SOUTH ST
IMPROVEMENTS
 PW 2025-07

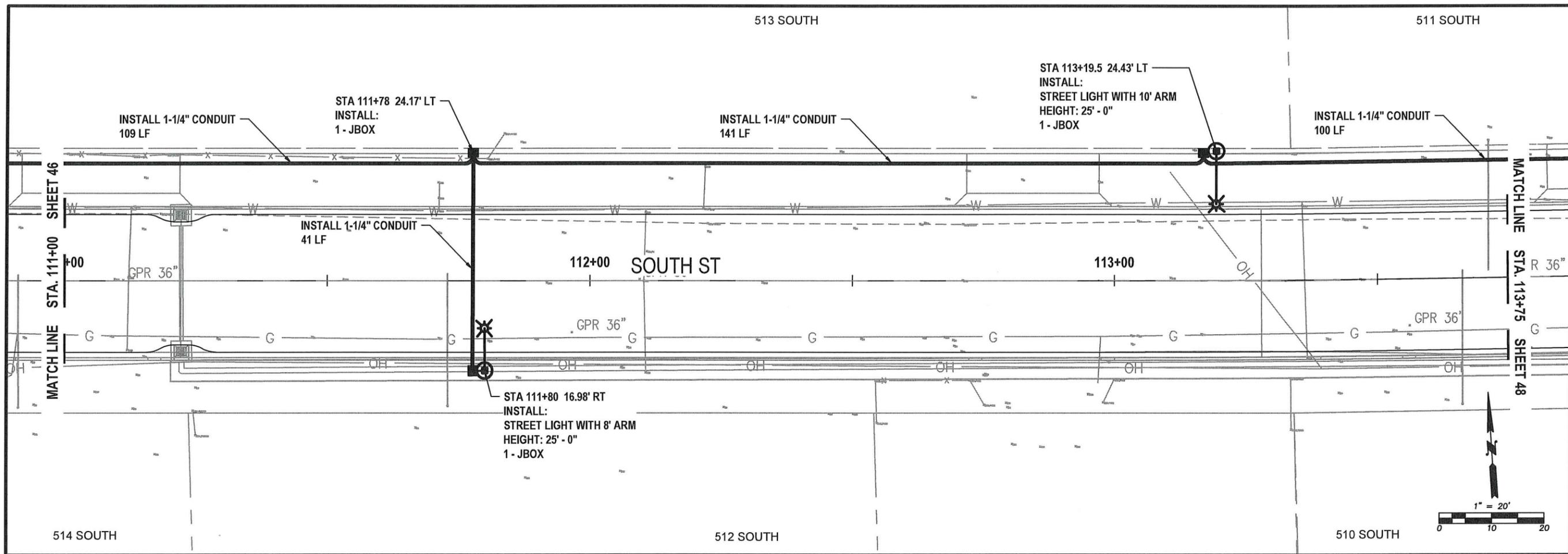


DESIGNED BY: P. PAGE
 DRAWN BY: J. DEBUSK
 SURVEYED BY: J. DEBUSK
 CHECKED BY: P. PAGE

May, 2025

LT06

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SOUTH ST - LIGHTING
STA 111+00 TO 113+75
PLAN VIEW

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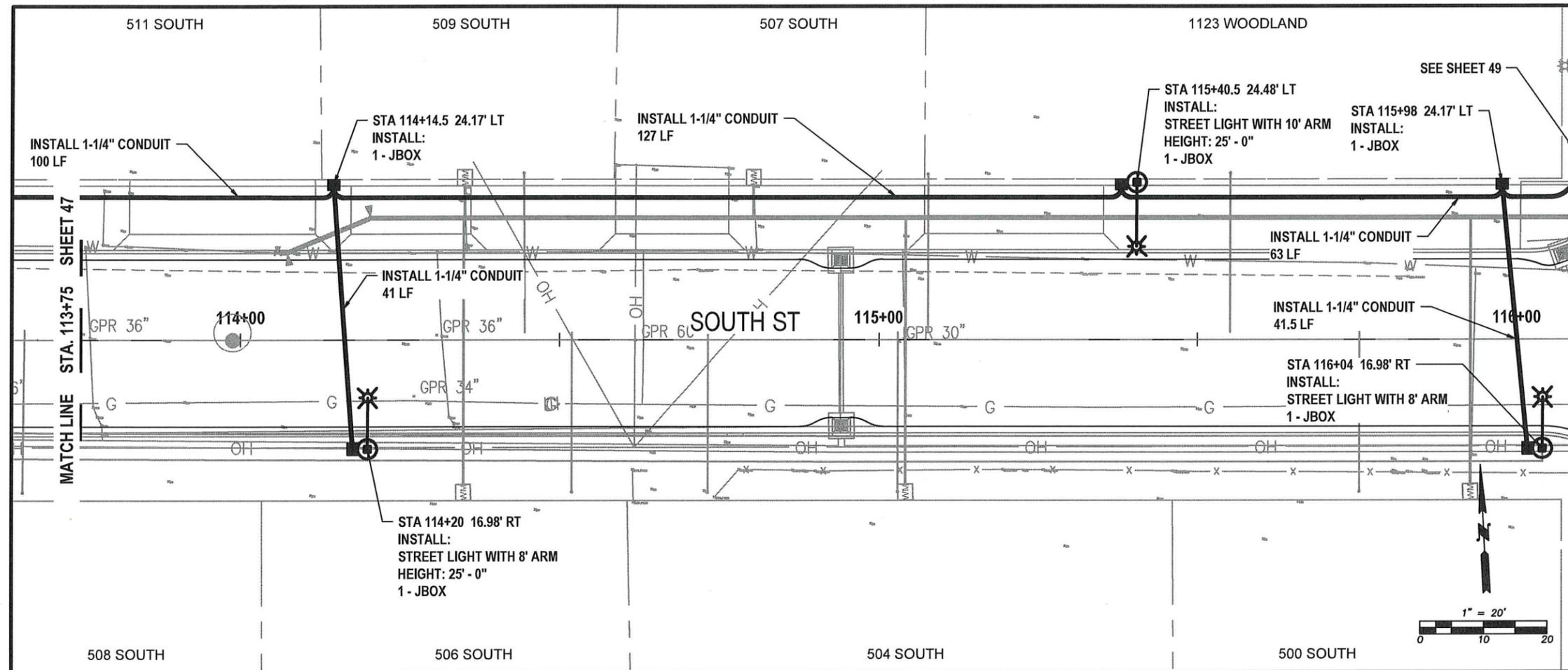


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LT07

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SOUTH ST - LIGHTING
STA 113+75 TO 116+00
PLAN VIEW

NOTES:

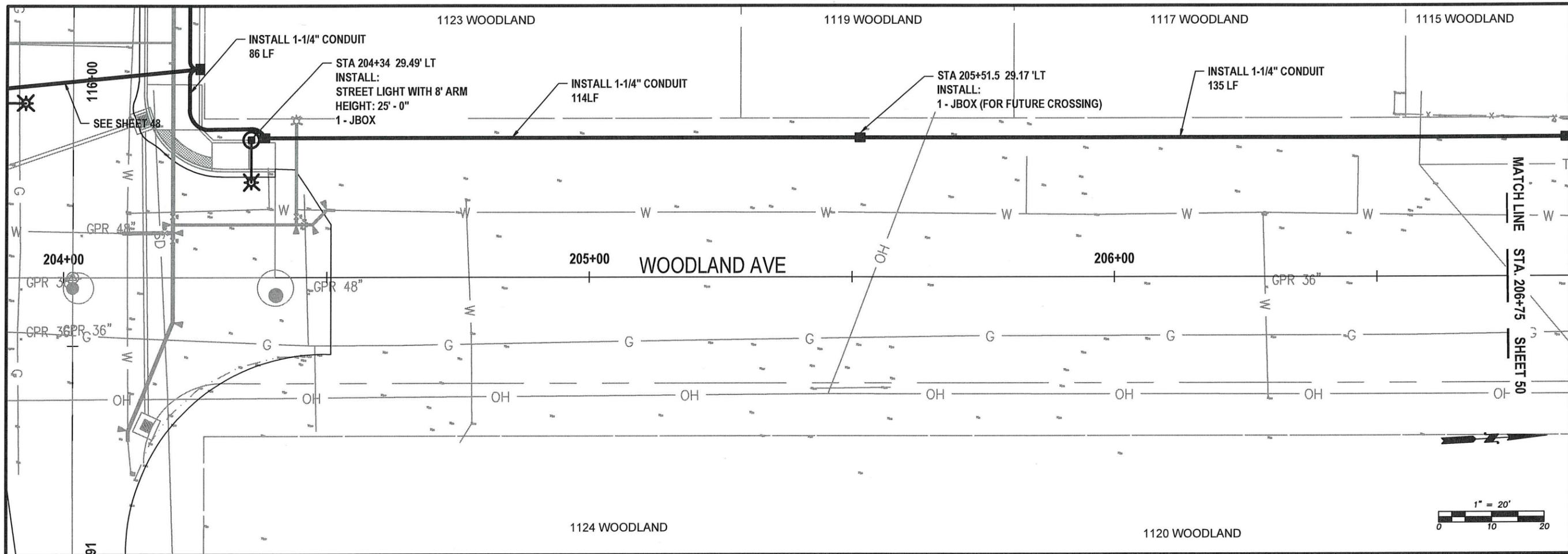
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May, 2025

LT08



WOODLAND AVE - LIGHTING
STA 204+00 TO 206+75
PLAN VIEW

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WOODLAND AVE
LIGHTING
PLAN VIEW
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S YEW ST AND SOUTH ST
IMPROVEMENTS
 PW 2025-07

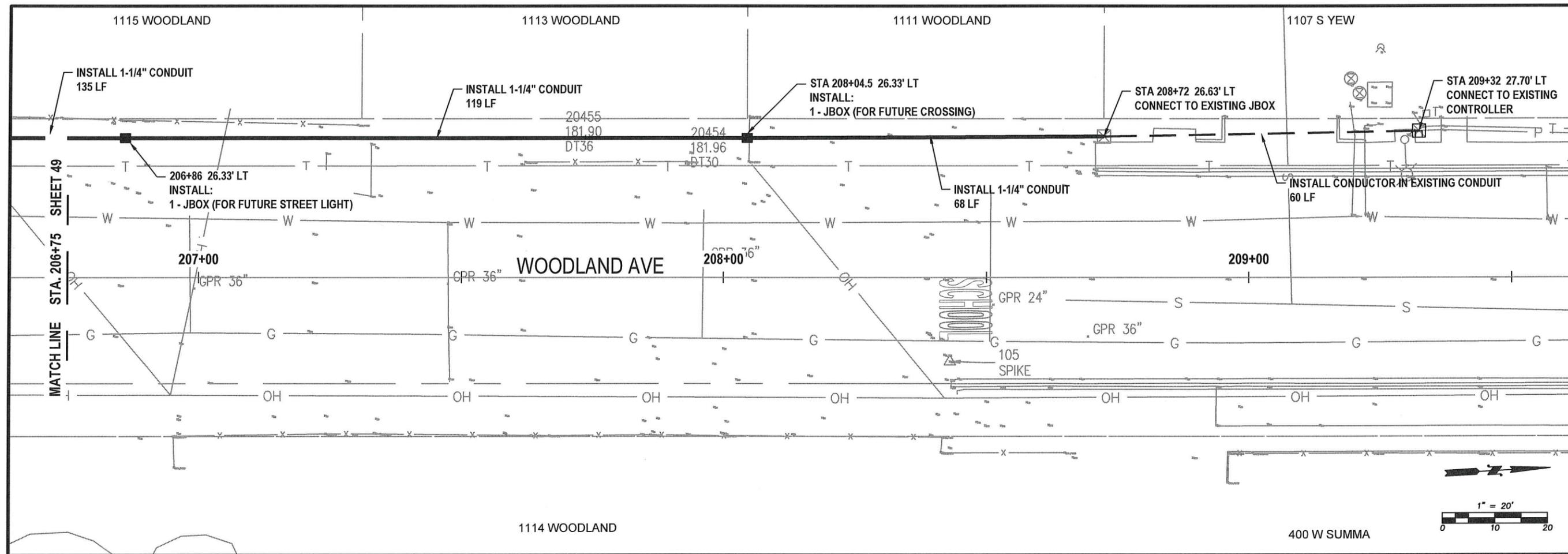


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 CHECKED BY: P. PAGE

May, 2025

LT09

49 OF 99



WOODLAND AVE - LIGHTING
STA 206+75 TO 209+50
PLAN VIEW

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S YEW ST AND SOUTH ST
IMPROVEMENTS
PW 2025-07



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LT10

50 OF 99

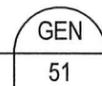
**STREET LIGHT CONSTRUCTION
GENERAL NOTES**

- All workmanship, materials and testing shall be in accordance with WSDOT/APWA, NEC and City of Centralia Design and Development Guidelines and Centralia Street Light Construction guidelines unless otherwise specified below. In cases of conflict the most stringent guideline shall apply.
- A right-of-way permit, electrical permits and inspections are required for all street lighting installations within the City of Centralia. The contractor is responsible for obtaining said permits prior to any type of actual construction. The right-of-way permit is available at the Engineering Department, 1100 N Tower Ave, Centralia. An application for the electrical permit can be obtained from Centralia City Light, 1100 N Tower Ave, Centralia.
- A clearly marked service disconnect shall be provided for every lighting circuit. The location and installation of the disconnect shall conform to National Electric Code (NEC) and City of Centralia Standards. The photo cell window shall face north unless otherwise directed by the City. The service disconnect shall not be mounted on the luminaire pole. The service disconnect shall be of a type equal to a Myers MEUG16-31 (100 AMP) or Milbank CP3B11110A22SL1 service, 120/240 VAC, 1φ 3W, Caltrans Type 3B with conductors, photo electric cell and test switch. Place one spare 1½" conduit stub-out in service base 1 foot beyond concrete for future expansion. All service disconnects shall be used to their fullest capabilities (i.e. maximum number of luminaires per circuit). See Centralia Standard drawing 7-02.
- All lighting wire shall be copper with a minimum size of #8 UF. All wire shall be suitable for wet locations. All wire shall be installed in schedule 40 PVC conduit with a minimum diameter of 1½". A bushing or bell-end shall be used at the end of a conduit that terminate at a junction box or luminaire pole. Conductor identification shall be an integral part of installation of the conductors throughout the system (i.e. color-coded wire). Equipment grounding conductor shall be #8 UF copper. All splices or taps shall be made by approved methods utilizing epoxy kits rated at 600 volts (i.e. 3-M 82-A2). All splices shall be made with pressure type connectors. Wire nuts will not be allowed. Direct burial wire will not be allowed. All other installation shall conform to NEC, WSDOT/APWA and MUTCD standards.
- Each luminaire pole shall have an in-line, fused, watertight electrical disconnect located at the base of the pole. The hand-hole shall be facing away from oncoming traffic. Additional conductor Length shall be left inside the pole at the handhole, pull box, or junction box, equal to a loop having a diameter of 18 inches. Load side of in-line fuse to luminaire head shall be cable and pole mounted and placed within the above mentioned 18 inch loop by approved means. The CREE XSPLG LUMINAIRE (Order No. XSPLG D HT 2ME 18L 40K7 UL SV X4) must be used in all installations.
- Approved pull boxes or junction boxes shall be installed when conduit runs are more than 200 feet. In addition, a pull box or junction box shall be located within 10 feet of each luminaire pole and at every road crossing. Boxes shall be clearly and indelibly marked as lighting boxes by the legend "Lighting" or "L.T.". See WSDOT standard plan J-40.10-04 Type 1 and Centralia Standard Drawing 7-01.
- All street light poles shall be spaced at 125 foot intervals and staggered. Any variation from the 125 ft. spacing to accommodate a specific installation must be approved by the City Engineer. All poles shall be HAPCO 25' Round Tapered Aluminum Pole with 8' Singe Davit Arm. In existing developed areas, the City may approve/require use of other poles to maintain consistency within the developed area.
- Mounting heights, arm length, power source, luminaire, and bolt patterns shall be as follows:

Mounting height:	25' 0"	(To top back of sidewalk)
Arm length:	8'	
Power source:	240 VAC, 1φ 3 wire	
Luminaire type:	The CREE XSPLG Luminaire (See Centralia Standard drawing 7-01)	
Bolt pattern:	4 Bolt, 10"-11" Diameter Bolt Circle	

APPROVED BY	REVISED DATE	CITY OF CENTRALIA	
CITY ENGINEER	06/2020	STREET LIGHT CONSTRUCTION GENERAL NOTES	1 of 2
2022 Standard Drawings			

STREET LIGHT GENERAL NOTES
DETAIL



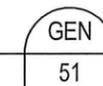
**STREET LIGHT CONSTRUCTION
GENERAL NOTES**

- Cement concrete bases are shown in Centralia Standard Drawing 7-01. Conduit shall extend between 3 and 6 inches above the concrete base.
- Refer to Centralia Standard Drawings 7-01, 7-02, and 7-03 for typical street light installation layout.
- Any modification to approved plans made by the licensed engineer and so stamped, shall be reviewed and approved by the City prior to installation.
- For connection to a pole mounted transformer the following must be provided: 35' of wire from the base of the pole, three sections of schedule 80 conduit and three standoff brackets.
- Street light foundations will be formed with 36" Dia. Sonotube.

*** NOTE: When ordering from Lexington, specify that the order is for the City of Centralia.**

APPROVED BY	REVISED DATE	CITY OF CENTRALIA	
CITY ENGINEER	06/2020	STREET LIGHT CONSTRUCTION GENERAL NOTES	2 of 2
2022 Standard Drawings			

STREET LIGHT GENERAL NOTES
DETAIL



**CITY OF CENTRALIA
PUBLIC WORKS
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 1100 N. TOWER AVE
 CENTRALIA, WA 98531
 P: 360.330.7512 F: 360.330.7516
 CITY OF CENTRALIA.COM

LIGHTING DETAILS

S YEW ST AND SOUTH ST
 IMPROVEMENTS

PW 2025-07



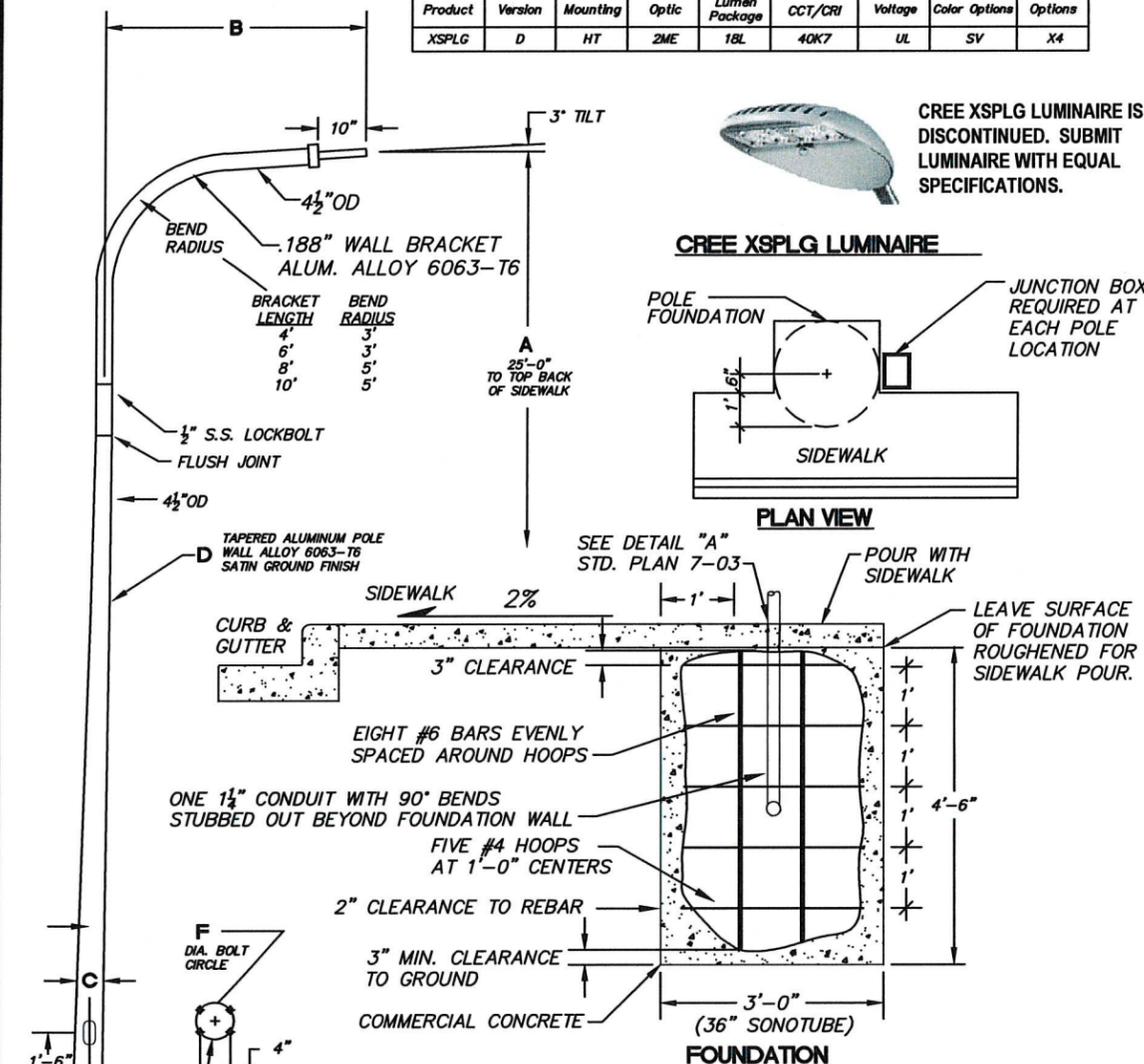
DESIGNED BY: P. PAGE
 DRAWN BY: J. DEBUSK
 SURVEYED BY: J. DEBUSK
 CHECKED BY: P. PAGE

May, 2025

LD01

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Product	Version	Mounting	Optic	Lumen Package	CCT/CRI	Voltage	Color Options	Options
XSPLG	D	HT	2ME	18L	40K7	UL	SV	X4



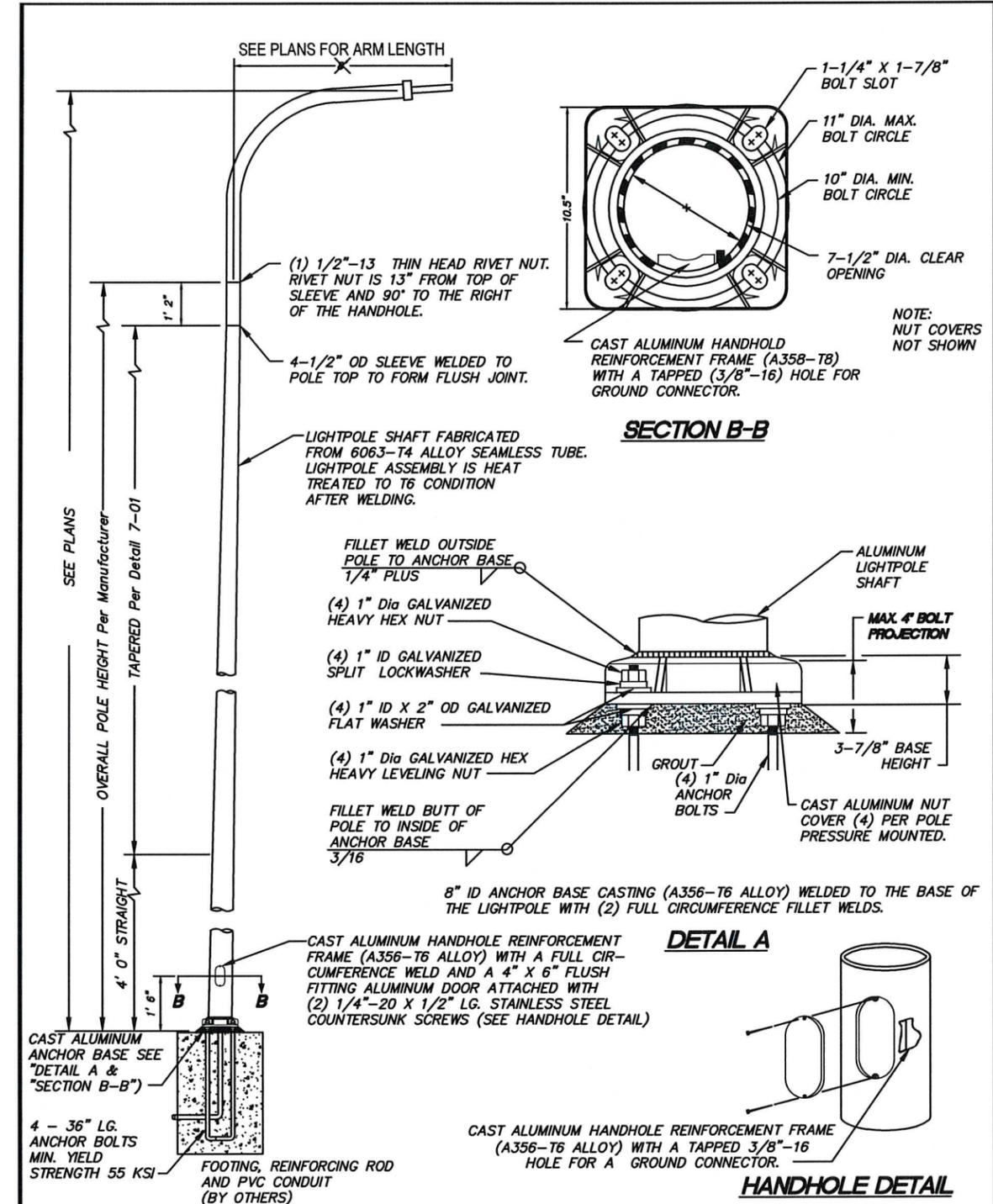
CREE XSPLG LUMINAIRE IS DISCONTINUED. SUBMIT LUMINAIRE WITH EQUAL SPECIFICATIONS.

- GENERAL NOTES:**
1. THE FOUNDATION IS DESIGNED FOR 200 PSF AVERAGE SOIL LATERAL BEARING PRESSURE.
 2. STANDARD COUPLING REQUIRED ON ALL STREETS.
 3. BOLT PATTERN PER MANUFACTURERS SPECIFICATIONS.
 4. FOR DETAILS NOT SHOWN USE MANUFACTURERS SPECIFICATIONS AND DETAILS.
 5. L & I ELECTRICAL PERMIT AND PROOF OF WORK INSPECTED.

SEE PLANS	SEE PLANS	41-081	42-081	7"	.188"	10.5"	10" TO 11"
A	B	CATALOG SINGLE BRACKET	CATALOG TWIN BRACKET	C	D	E	F

APPROVED BY	REVISED DATE	CITY OF CENTRALIA	STD. PLAN NO.
CITY ENGINEER	02/2020	STREET LIGHT DETAILS	7-01
2022 Standard Drawings			

STREET LIGHT DETAIL 7-01
52



APPROVED BY	REVISED DATE	CITY OF CENTRALIA	STD. PLAN NO.
CITY ENGINEER	02/2020	LIGHT POLE DETAIL	7-03
2022 Standard Drawings			

LIGHT POLE DETAIL 7-03
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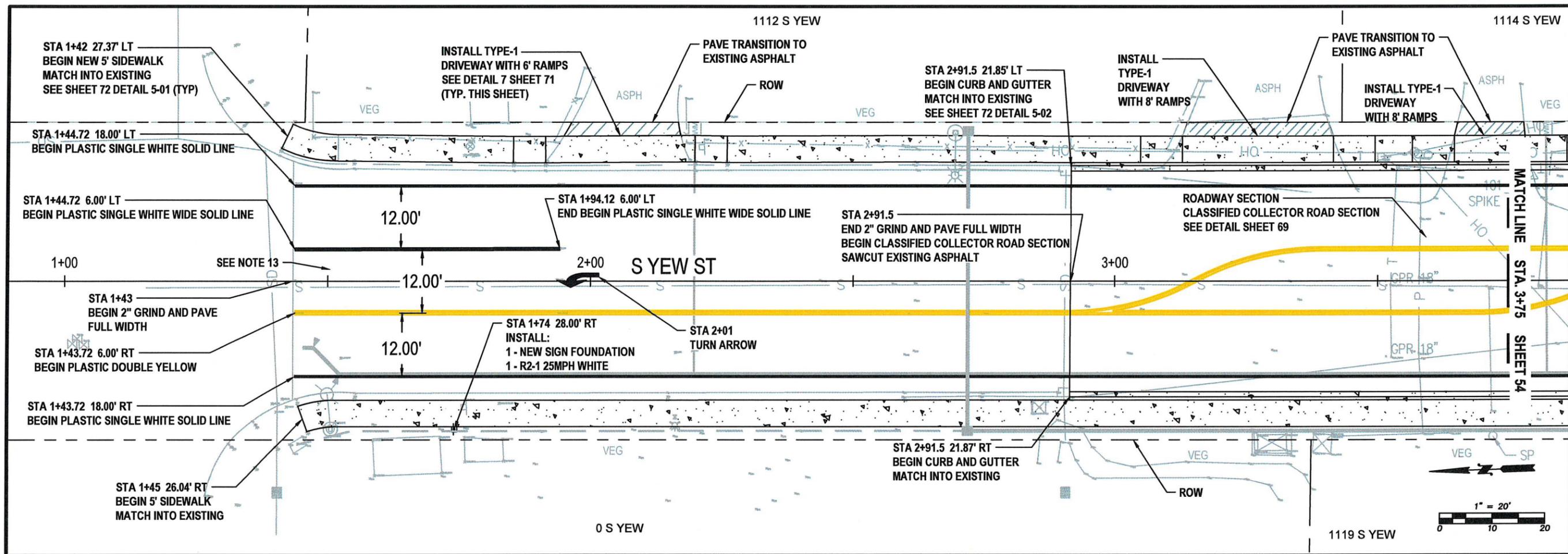
LIGHTING DETAILS

S YEW ST AND SOUTH ST
IMPROVEMENTS
PW 2025-07



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DRAWN BY: J. DEBUSK
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CHECKED BY: P. PAGE

May, 2025
LD02
52 OF 99



YEW ST - PAVING, STRIPING & SIGNAGE
STA 1+00 TO 3+75
PLAN VIEW

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11. CSS-1 TACK SHALL BE APPLIED TO EDGES OF EXISTING SURFACES EXCEPT CONCRETE GUTTER.
12. SEE DETAIL 4-03 SHEET 68 FOR TRENCH RESTORATION IN ASPHALT AREAS.
13. 2" GRIND AND PAVE. PRE-LEVEL TRENCHED AREAS WITH 2" HMA FOR A TOTAL OF 4" OF HMA.
14. EXACT LIMITS OF RESTORATION WILL BE DETERMINED IN THE FIELD BY CITY INSPECTOR.
15. INSTALL 5/8" - SHOULDER ROCK 2' WIDE x 3" DEPTH COMPACTED AT THE EDGES OF ALL NEW HMA WHERE IT IS NOT SUPPORTED BY CONCRETE OR EXISTING ASPHALT.

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 CENTRALIA, WA 98531
 P: 360.330.7512 F: 360.330.7516
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YEW ST
PAVING, STRIPING & SIGNAGE
PLAN VIEW
STA 1+00 TO 3+75

S YEW ST AND SOUTH ST
IMPROVEMENTS
PW 2025-07



DESIGNED BY: P. PAGE

DRAWN BY: J. DEBUSK

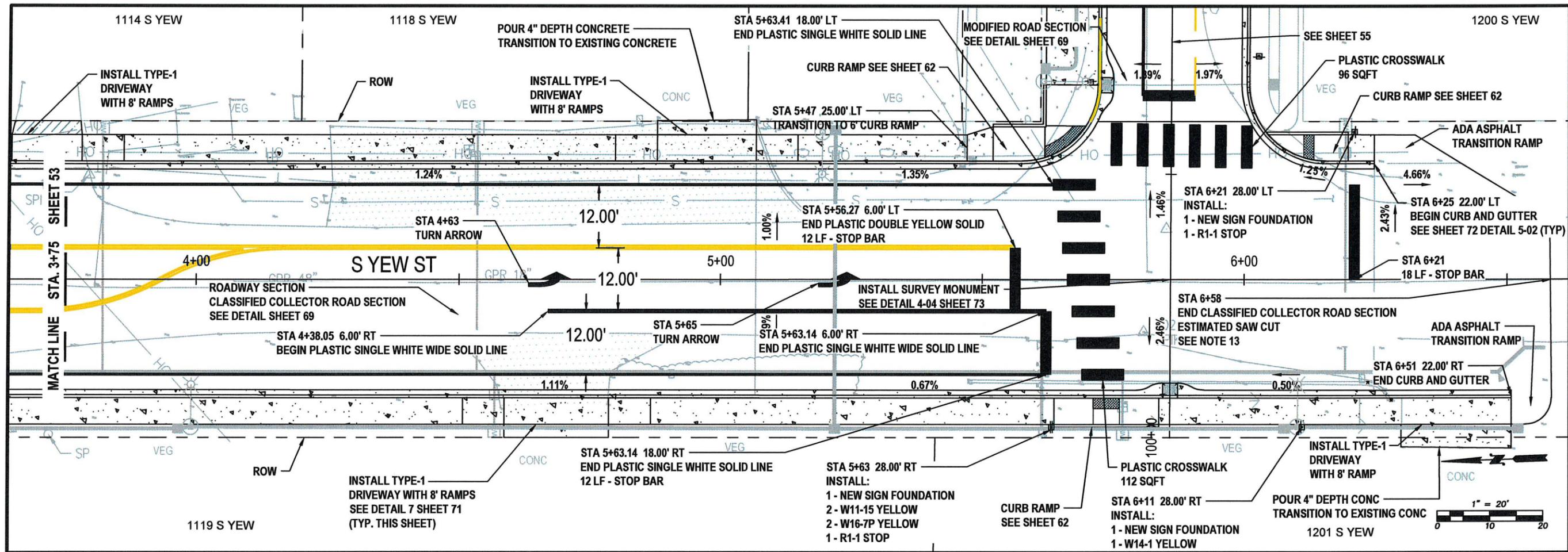
SURVEYED BY: J. DEBUSK

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May, 2025

PV01

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**YEW ST - PAVING, STRIPING AND SIGNAGE
STA 3+75 TO 6+50
PLAN VIEW**

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1100 N. TOWER AVE
CENTRALIA, WA 98531
P: 360.330.7512 F: 360.330.7516
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**YEW ST
PAVING, STRIPING AND SIGNAGE
PLAN VIEW
STA 3+75 TO 6+50**

**S YEW ST AND SOUTH ST
IMPROVEMENTS
PW 2025-07**

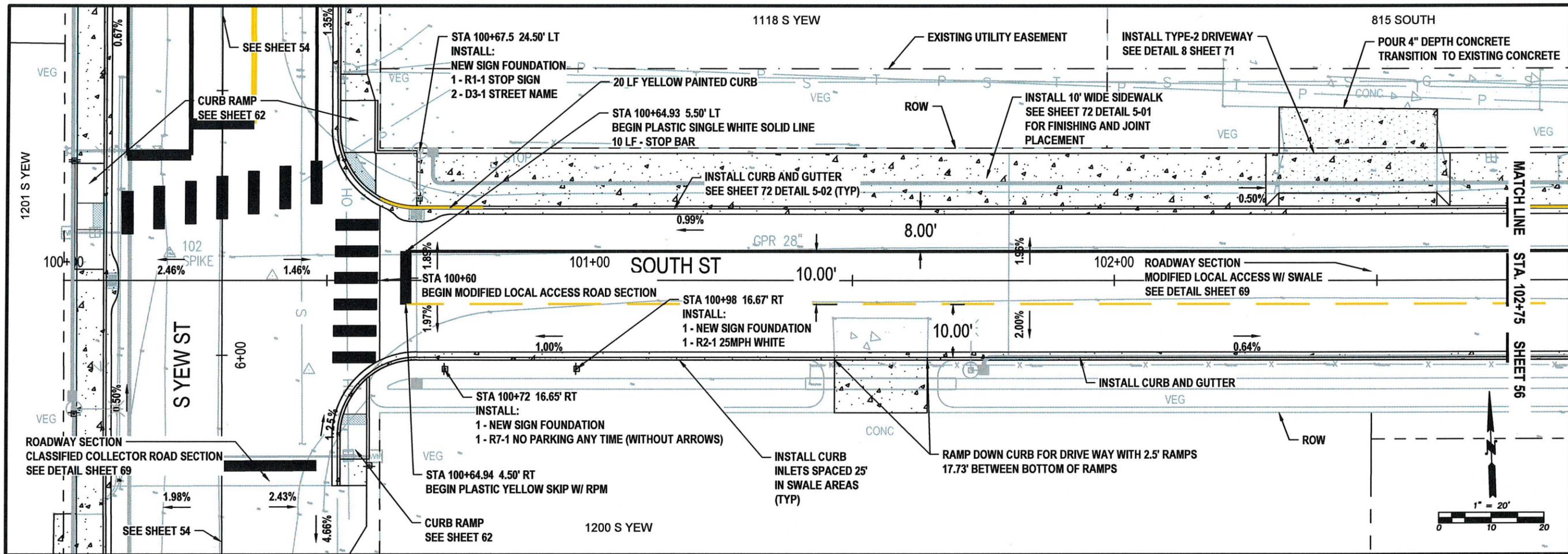


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DRAWN BY: J. DEBUSK
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CHECKED BY: P. PAGE

May, 2025

PV02

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SOUTH ST - PAVING, STRIPING AND SIGNAGE
STA 100+00 TO 102+75
PLAN VIEW

NOTES:

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 1100 N. TOWER AVE
 CENTRALIA, WA 98531
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SOUTH ST
PAVING, STRIPING AND SIGNAGE
PLAN VIEW

STA 100+00 TO 102+75

S YEW ST AND SOUTH ST
IMPROVEMENTS

PW 2025-07

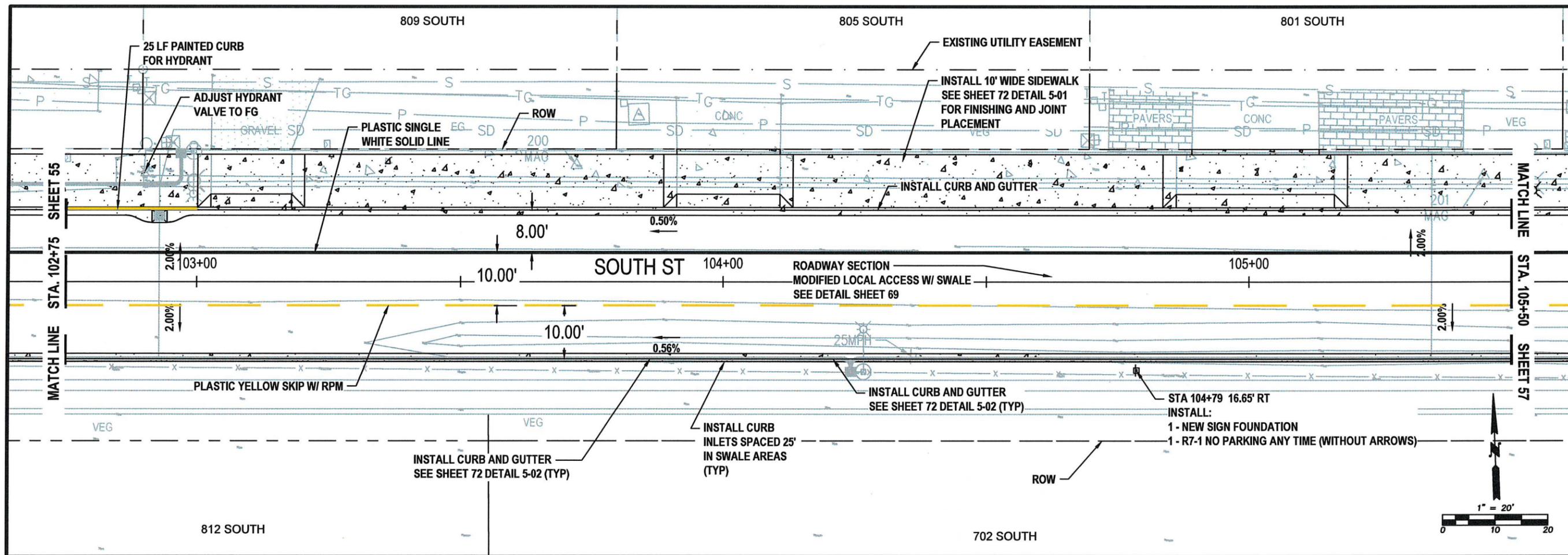


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 DRAWN BY: J. DEBUSK
 SURVEYED BY: J. DEBUSK
 CHECKED BY: P. PAGE

May, 2025

PV03

55 OF 99



**SOUTH ST - PAVING, STRIPING AND SIGNAGE
STA 102+75 TO 105+50
PLAN VIEW**

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**SOUTH ST
PAVING, STRIPING AND SIGNAGE
PLAN VIEW**

STA 102+75 TO 105+50

**S YEW ST AND SOUTH ST
IMPROVEMENTS**

PW 2025-07

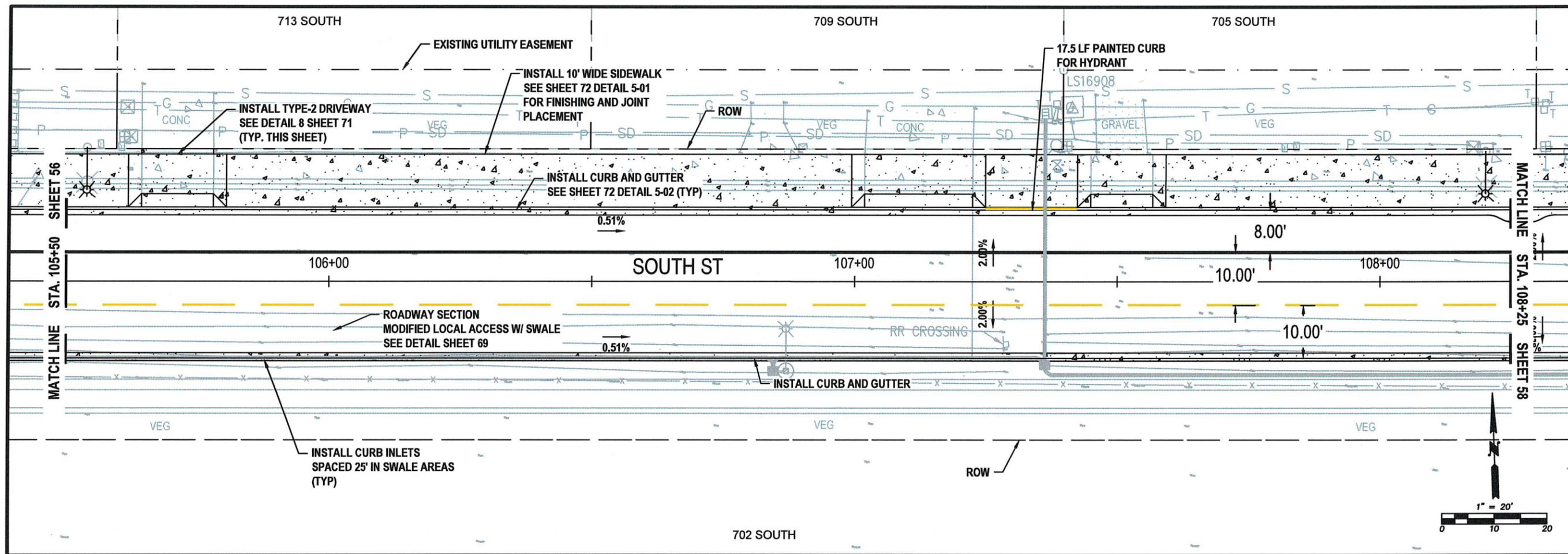


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DRAWN BY: J. DEBUSK
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CHECKED BY: P. PAGE

May, 2025

PV04

56 OF 99



SOUTH ST - PAVING, STRIPING AND SIGNAGE
STA 105+50 TO 108+25
PLAN VIEW

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SOUTH ST
PAVING, STRIPING AND SIGNAGE
PLAN VIEW

STA 105+50 TO 108+25

S YEW ST AND SOUTH ST
IMPROVEMENTS

PW 2025-07

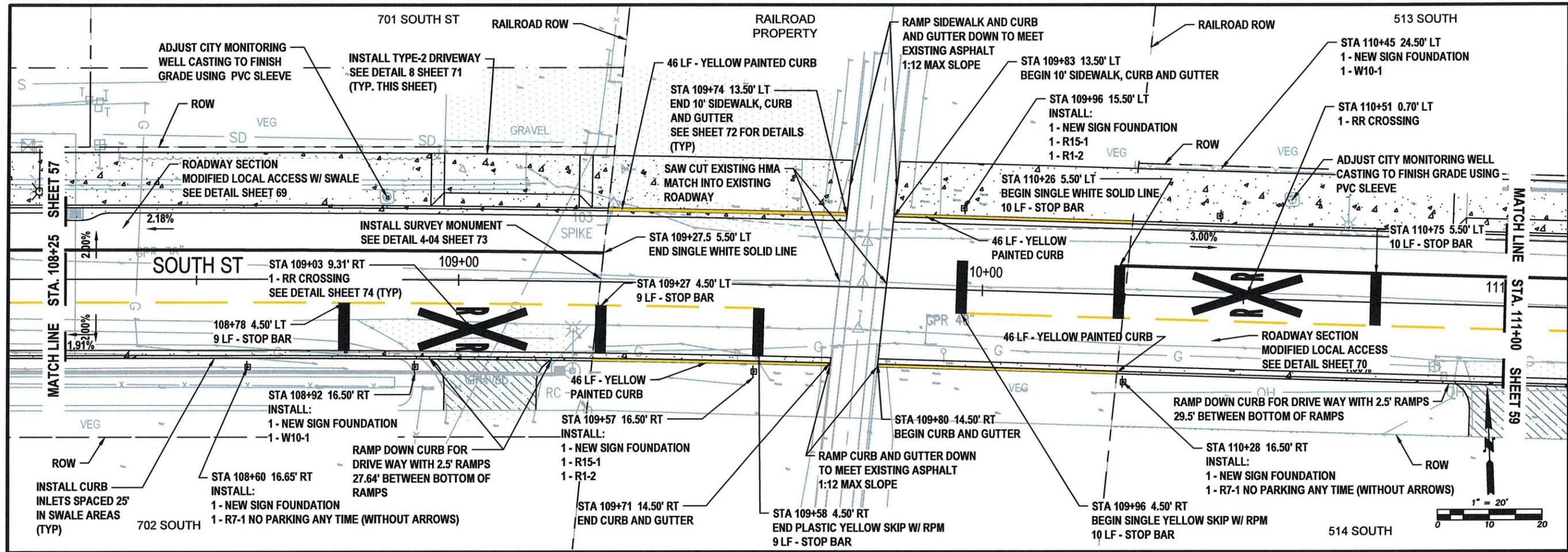


DESIGNED BY: P. PAGE
 DRAWN BY: J. DEBUSK
 SURVEYED BY: J. DEBUSK
 CHECKED BY: P. PAGE

May, 2025

PV05

57 OF 99



**SOUTH ST - PAVING, STRIPING AND SIGNAGE
STA 108+25 TO 111+00
PLAN VIEW**

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**CITY OF CENTRALIA
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1100 N. TOWER AVE
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P: 360.330.7512 F: 360.330.7516
CITY OF CENTRALIA.COM

**SOUTH ST
PAVING, STRIPING AND SIGNAGE
PLAN VIEW**
STA 108+25 TO 111+00

**S YEW ST AND SOUTH ST
IMPROVEMENTS**
PW 2025-07

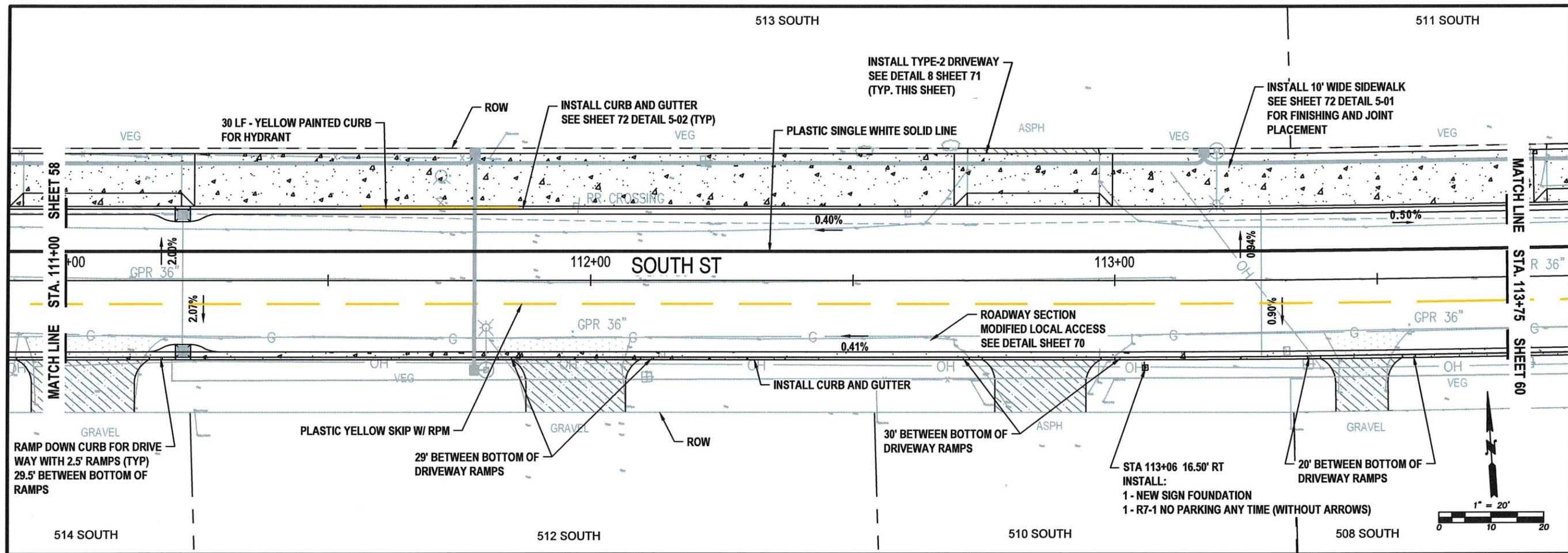


DESIGNED BY: P. PAGE
DRAWN BY: J. DEBUSK
SURVEYED BY: J. DEBUSK
CHECKED BY: P. PAGE

May, 2025

PV06

58 OF 99



SOUTH ST - PAVING, STRIPING & SIGNAGE
STA 111+00 TO 113+75
PLAN VIEW

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 P: 360.330.7512 F: 360.330.7516
 CITY OF CENTRALIA.COM

SOUTH ST
PAVING, STRIPING & SIGNAGE
PLAN VIEW

STA 111+00 TO 113+75

S YEW ST AND SOUTH ST
IMPROVEMENTS

PW 2025-07

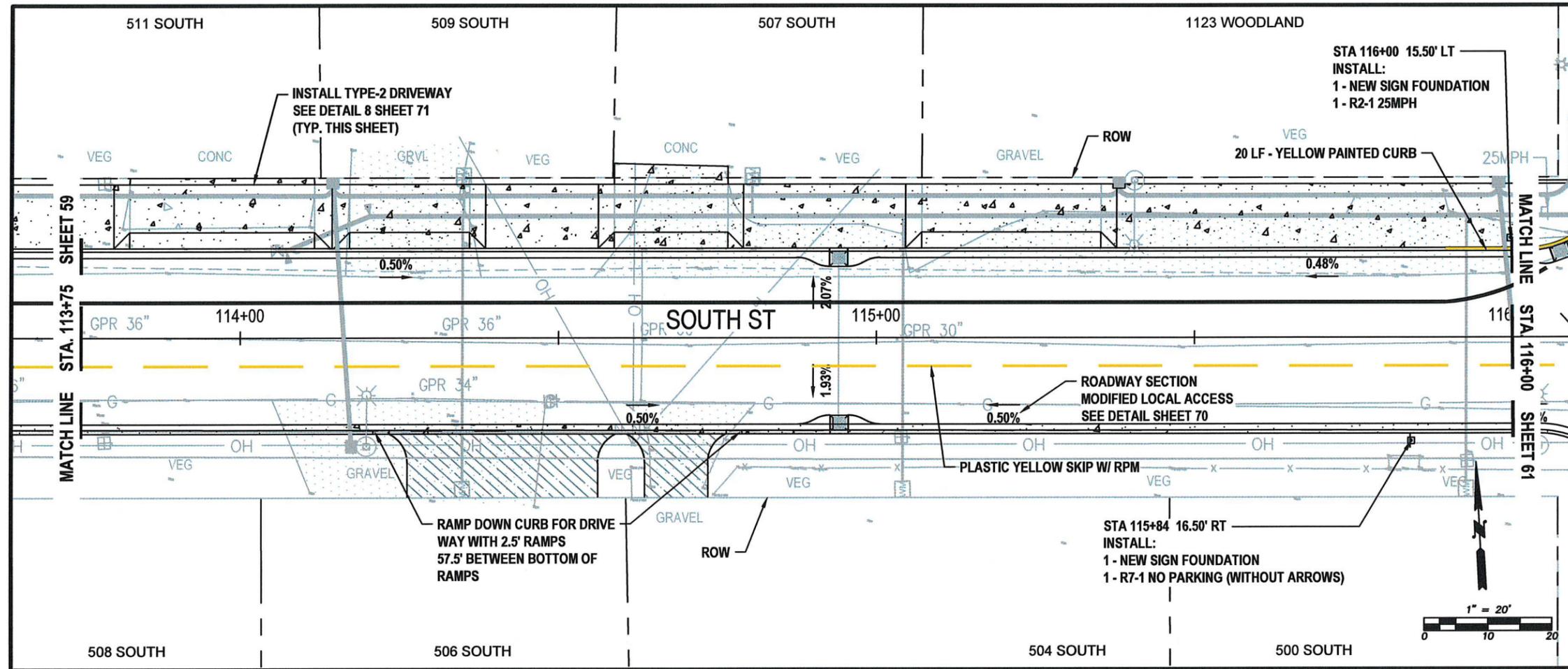


DESIGNED BY: P. PAGE
 DRAWN BY: J. DEBUSK
 SURVEYED BY: J. DEBUSK
 CHECKED BY: P. PAGE

May, 2025

PV07

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SOUTH ST - PAVING, STRIPING AND SIGNAGE
STA 113+75 TO 116+00
PLAN VIEW

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 CENTRALIA, WA 98521
 P: 360.330.7512 F: 360.330.7516
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SOUTH ST
PAVING, STRIPING AND SIGNAGE
PLAN VIEW
 STA 113+75 TO 116+00

S YEW ST AND SOUTH ST
IMPROVEMENTS
 PW 2025-07

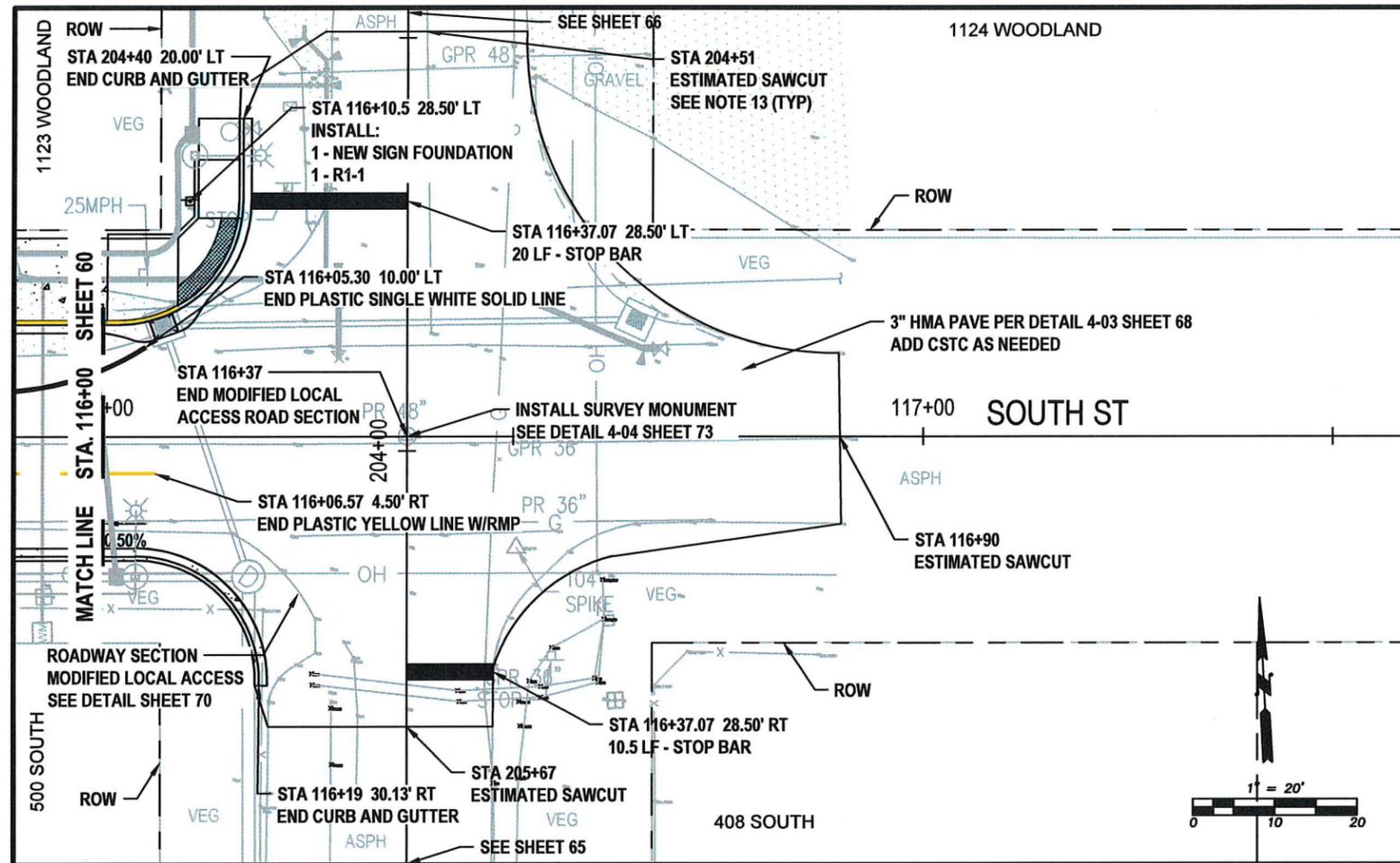


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 SURVEYED BY: J. DEBUSK
 CHECKED BY: P. PAGE

May, 2025

PV08

60 OF 99



**SOUTH ST - PAVING, STRIPING AND SIGNAGE
STA 116+00 TO 117+50
PLAN VIEW**

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**SOUTH ST
PAVING, STRIPING AND SIGNAGE
PLAN VIEW**
STA 116+00 TO 117+50

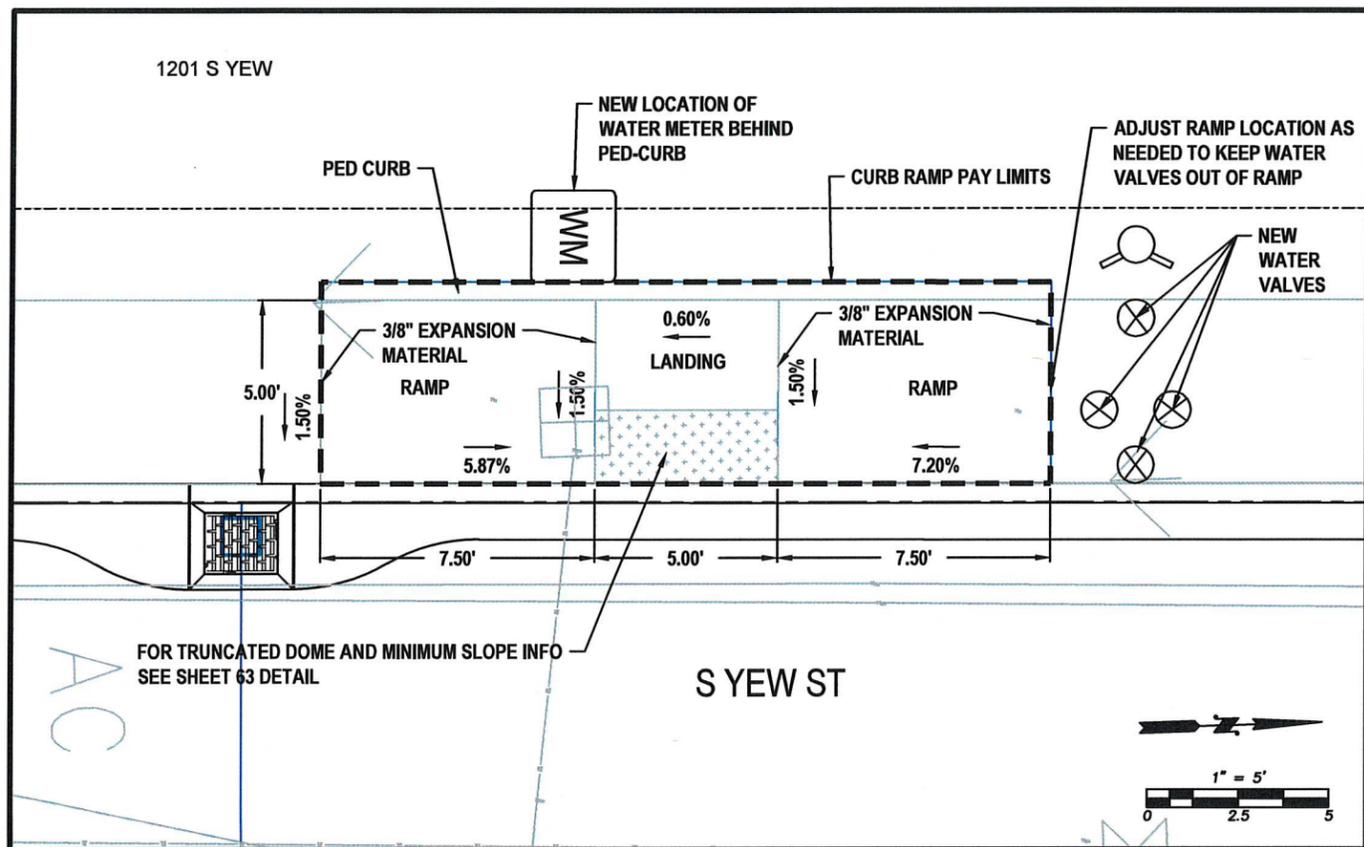
**S YEW ST AND SOUTH ST
IMPROVEMENTS**
PW 2025-07



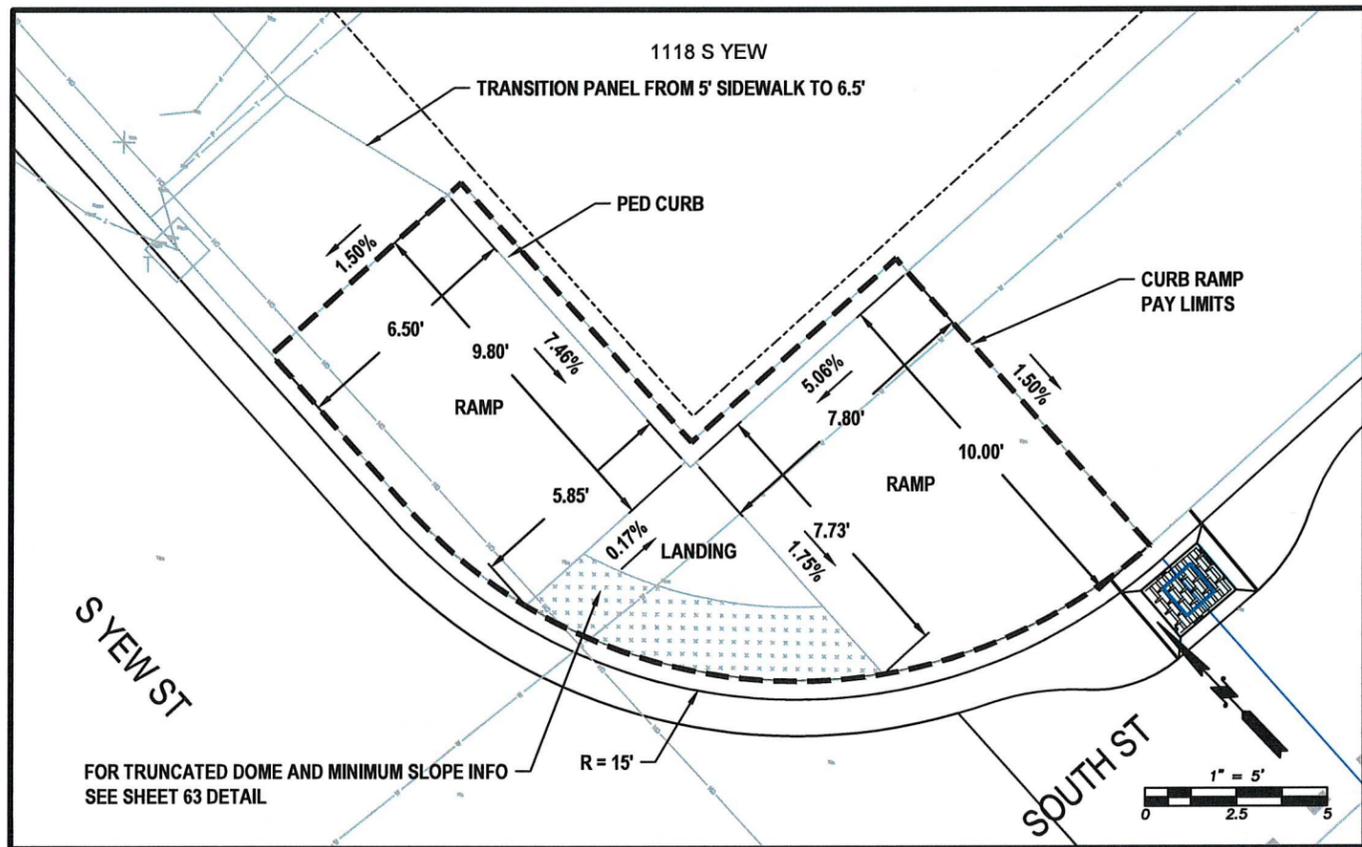
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May, 2025

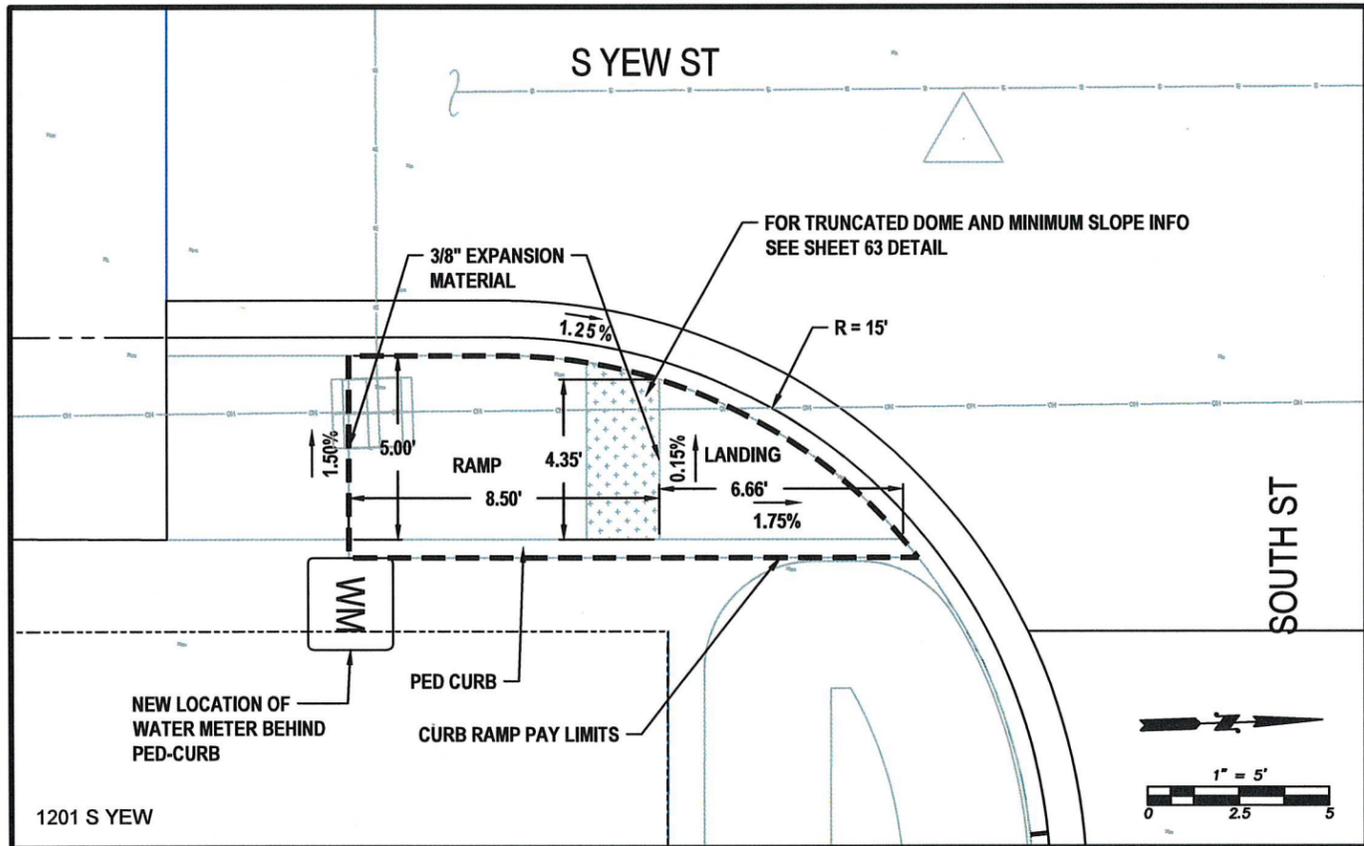
PV09



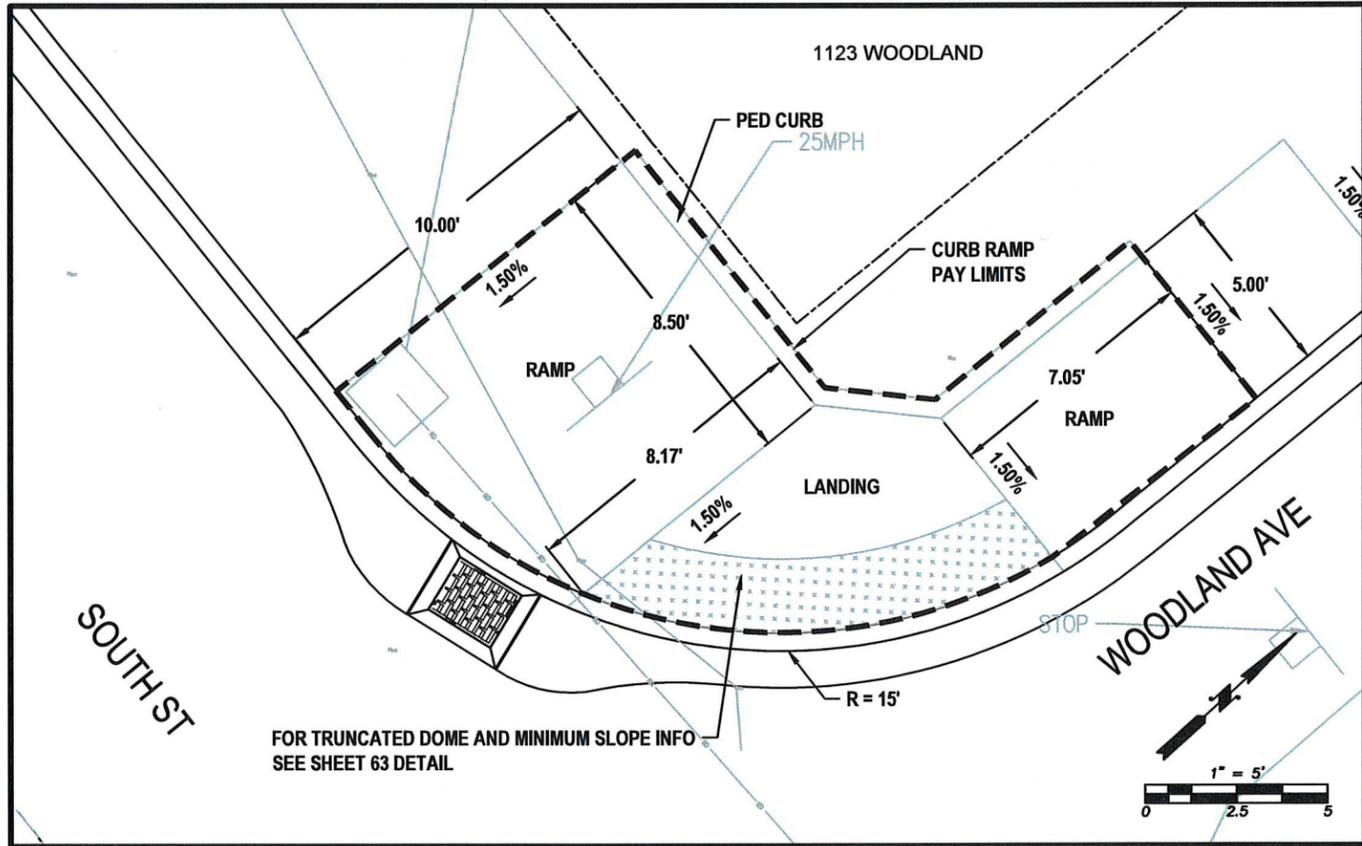
S YEW CURB RAMP - WEST SIDE



S YEW CURB RAMP - NORTH EAST CORNER



S YEW CURB RAMP - SOUTH EAST CORNER



WOODLAND CURB RAMP - NORTH WEST CORNER

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YEW ST AND WOODLAND AVE
 CURB RAMPS
 PLAN VIEW

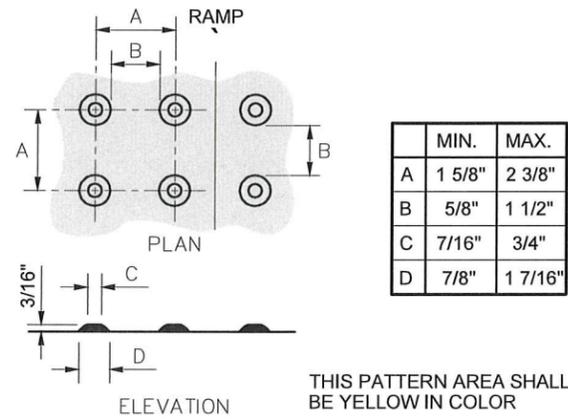
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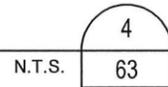
CURB RAMP NOTES

1. Ramp slopes shall not be steeper than 12H:1V.
2. The bottom of the ramp shall have a level area (not in excess of 2% in any direction), 4' x 4'.



DETECTABLE WARNING PATTERN DETAIL

ADA SLOPE AND TRUNCATED DOME
DETAIL



ADA DETAIL

S YEW ST AND SOUTH ST
IMPROVEMENTS

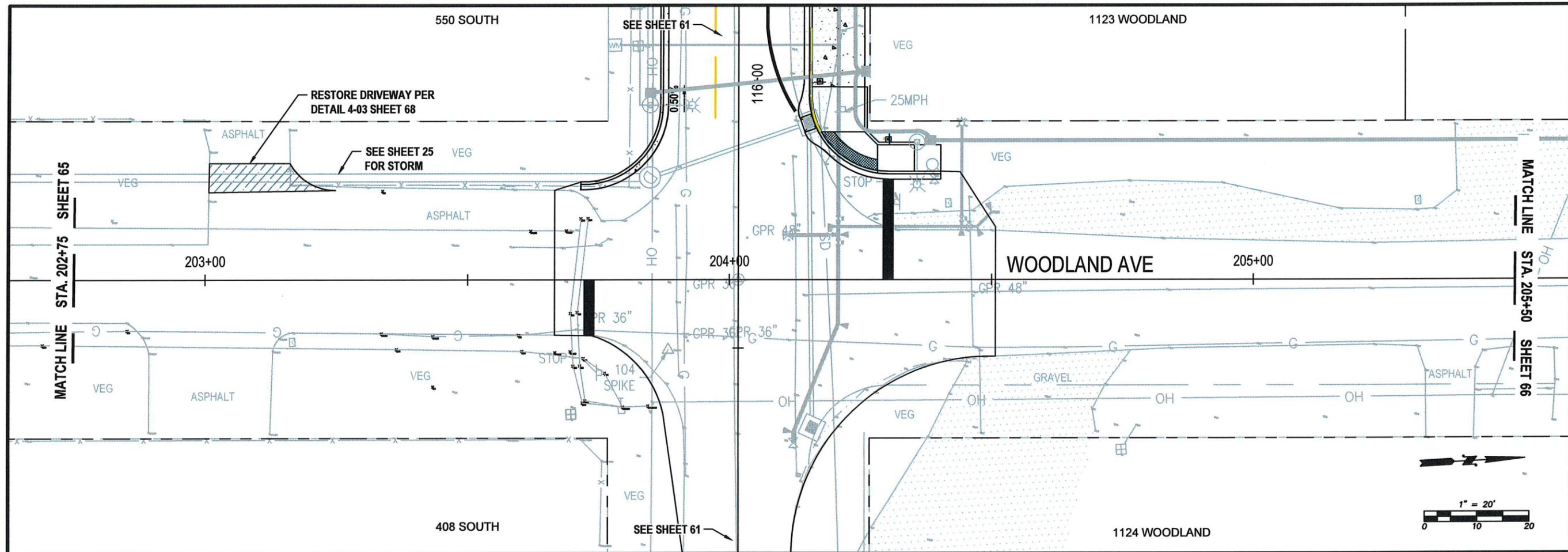
PW 2025-07



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DRAWN BY: J. DEBUSK
SURVEYED BY: J. DEBUSK
CHECKED BY: P. PAGE

May, 2025

PV11



WOODLAND AVE - PAVING, STRIPING AND SIGNAGE
STA 202+75 TO 205+50
PLAN VIEW

NOTES:

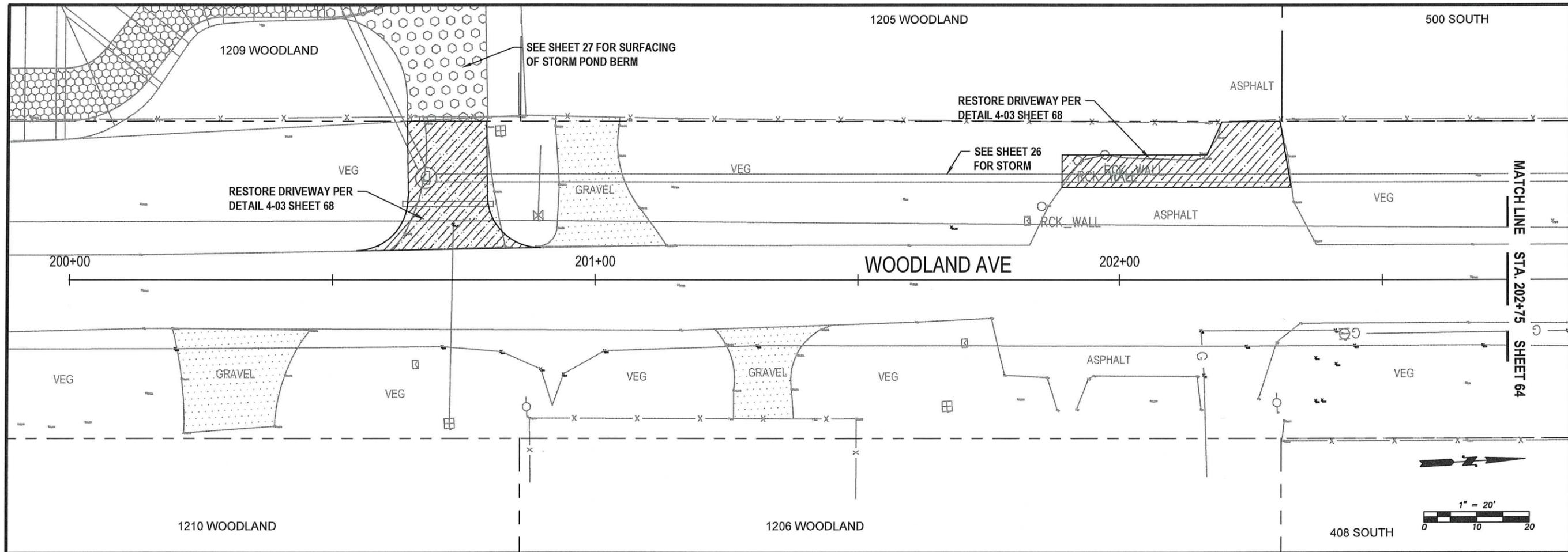
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 SURVEYED BY: J. DEBUSK
 CHECKED BY: P. PAGE

May, 2025

PV12



WOODLAND AVE - PAVING, STRIPING AND SIGNAGE
STA 200+00 TO 2+75
PLAN VIEW

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WOODLAND AVE
PAVING, STRIPING AND SIGNAGE
PLAN VIEW
 STA 200+00 TO 2+75

S YEW ST AND SOUTH ST
IMPROVEMENTS
 PW 2025-07

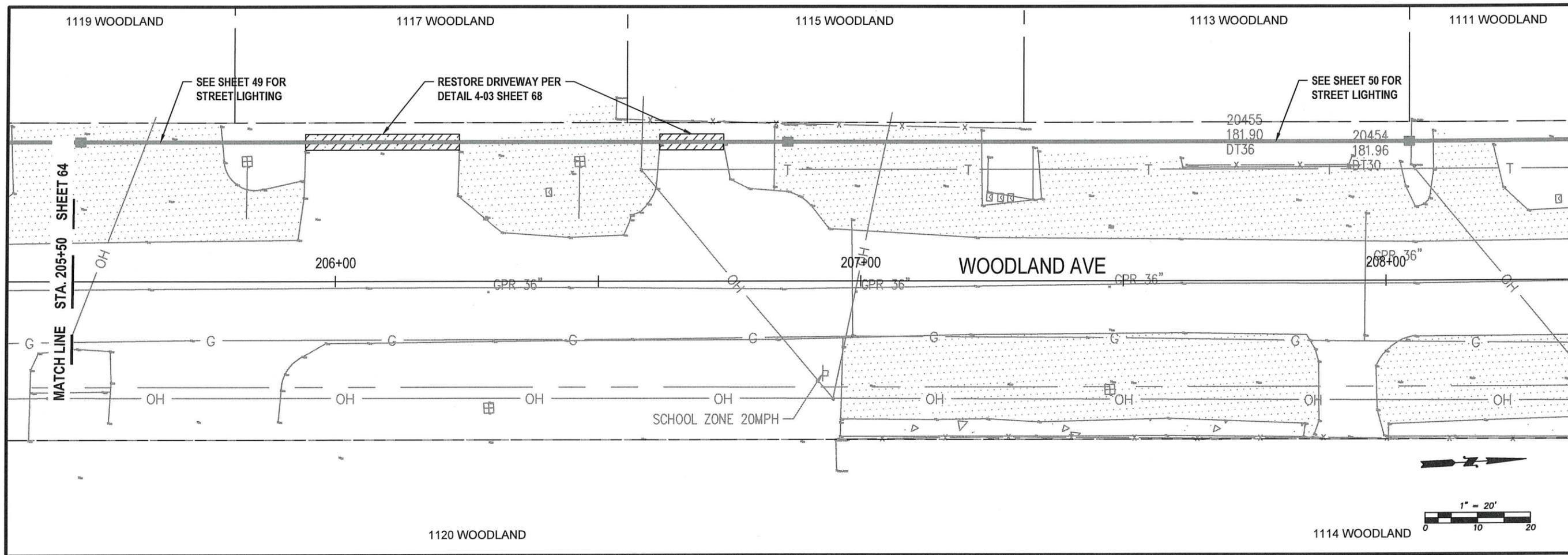


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 SURVEYED BY: J. DEBUSK
 CHECKED BY: P. PAGE

May, 2025

PV13

65 OF 99



WOODLAND AVE - PAVING, STRIPING AND SIGNAGE
STA 205+50 TO 208+25
PLAN VIEW

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WOODLAND AVE
PAVING, STRIPING AND SIGNAGE
PLAN VIEW
STA 205+50 TO 208+25

S YEW ST AND SOUTH ST
IMPROVEMENTS
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 SURVEYED BY: J. DEBUSK
 CHECKED BY: P. PAGE

May, 2025

PV14

66 OF 99

**STREET CONSTRUCTION
GENERAL NOTES**

- All workmanship and materials shall be in accordance with City of Centralia standards and the most current edition of the WSDOT/APWA Standard Specifications for Road, Bridge and Municipal Construction.
- The contractor shall be responsible for all traffic control in accordance with MUTCD. Prior to disruption of any traffic, traffic control plans shall be prepared and submitted to the City for approval. No work shall commence until all approved traffic control is in place.
- All street grades, sidewalk grades, and any other vertical and/or horizontal alignment shall be staked by an engineering or surveying firm capable of such work. All vertical control shall be established using the 1988 USGS Datum.
- Where new asphalt joins existing, the existing asphalt shall be cut to a neat vertical edge and tacked with Asphalt Emulsion Type CSS-1 in accordance with the Standard Specifications. The new asphalt shall be feathered back over existing to provide for a seal at the saw cut location and the joint sealed with grade AR-4000W paving asphalt.
- Compaction requirements of trench restoration, subgrade and pavement shall be in accordance with the current edition of the W.S.D.O.T. Standard Specifications.
- Form and subgrade inspection by the City is required before pouring concrete. Twenty-four hours notice is required for form inspection.
- Testing and sampling frequencies shall be as described in the Centralia Design and Development Guidelines.
- The City provides for the manufacture and installation of street name and regulatory signs at the contractor's/developer's expense. Signs shall be requested at the time construction begins.
- The contractor shall obtain a right-of-way permit from the Engineering Department prior to doing any construction in the right-of-way.
- All temporary patches will require application of cold mix asphalt. Cold mix will be maintained daily or as required by the City Engineer to assure a smooth driving surface.
- Temp steel plates shall be pinned in roadway section with temp transition ramp. Appropriate signage to be installed per MUTCD standards for trench crossings.
- All patches will be permanently paved within 2 weeks of first opening the trench.

LOCATION (APPROX.)	SIGN	SIZE	COLOR	STREET NAME	NOTES
YEW STA 1+74 28.00' RT	R2-1	24x30	WB		SPEED LIMIT 25 MPH
YEW STA 5+63 28.00' RT	W11-15	30x30	Y/B		BIKE/PED (2 SIGNS)
	W16-7P	24x12	Y/B		ARROW (2 SIGNS)
	R1-1	30x30	R/W		STOP
YEW STA 6+11 28.00' RT	W14-1	30x30	Y/B		DEAD END
YEW STA 6+21 28.00' LT	R1-1	30x30	R/W		STOP
SOUTH STA 100+67.5 15.50' LT	R1-1	30x30	R/W		STOP
	D3-1	8xVARIABLE	G	S YEW ST	STREET NAME
	D3-1	8xVARIABLE	G	SOUTH ST	STREET NAME
SOUTH STA 100+72 16.65' RT	R7-1	12x30	R/W		NO PARKING ANY TIME (WITHOUT ARROWS)
SOUTH STA 100+98 16.67' RT	R2-1	24x30	WB		SPEED LIMIT 25 MPH
SOUTH STA 104+79 16.65' RT	R7-1	12x30	R/W		NO PARKING ANY TIME (WITHOUT ARROWS)
SOUTH STA 108+60 16.65' RT	R7-1	12x30	R/W		NO PARKING ANY TIME (WITHOUT ARROWS)
SOUTH STA 108+92 16.50' RT	W10-1	36 DIA	Y/B		CROSSING GRADE ADVANCE WARNING
SOUTH STA 109+57 16.50' RT	R15-1	48x9	WB		GRADE CROSSING (CROSSBUCK)
	R1-2	30x30x30	R/W		YIELD
SOUTH STA 109+96 15.50' LT	R15-1	48x9	WB		GRADE CROSSING (CROSSBUCK)
	R1-2	30x30x30	R/W		YIELD
SOUTH STA 110+28 16.68' RT	R7-1	12x30	R/W		NO PARKING ANY TIME (WITHOUT ARROWS)
SOUTH STA 110+45 15.50' LT	W10-1	36 DIA	Y/B		CROSSING GRADE ADVANCE WARNING
SOUTH STA 113+06 16.50' RT	R7-1	12x30	R/W		NO PARKING ANY TIME (WITHOUT ARROWS)
SOUTH STA 115+84 16.50' RT	R7-1	12x30	R/W		NO PARKING ANY TIME (WITHOUT ARROWS)
SOUTH STA 116+00 15.50' LT	R2-1	24x30	WB		SPEED LIMIT 25 MPH
SOUTH STA 116+10.5 28.50' LT	R1-1	30x30	R/W		STOP

SIGN SCHEDULE

APPROVED BY	REVISED DATE	CITY OF CENTRALIA	
CITY ENGINEER	06-2017	STREET CONSTRUCTION GENERAL NOTES	1 OF 1
2022 Standard Drawings			

STREET CONSTRUCTION GENERAL NOTES
DETAIL



**CITY OF CENTRALIA
PUBLIC WORKS
ENGINEERING DEPT.**
1100 N. TOWER AVE
CENTRALIA, WA 98531
P: 360.330.7512 F: 360.330.7516
CITY OF CENTRALIA.COM

STREET DETAILS

S YEW ST AND SOUTH ST
IMPROVEMENTS

PW 2025-07



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DRAWN BY: J. DEBUSK
SURVEYED BY: J. DEBUSK
CHECKED BY: P. PAGE

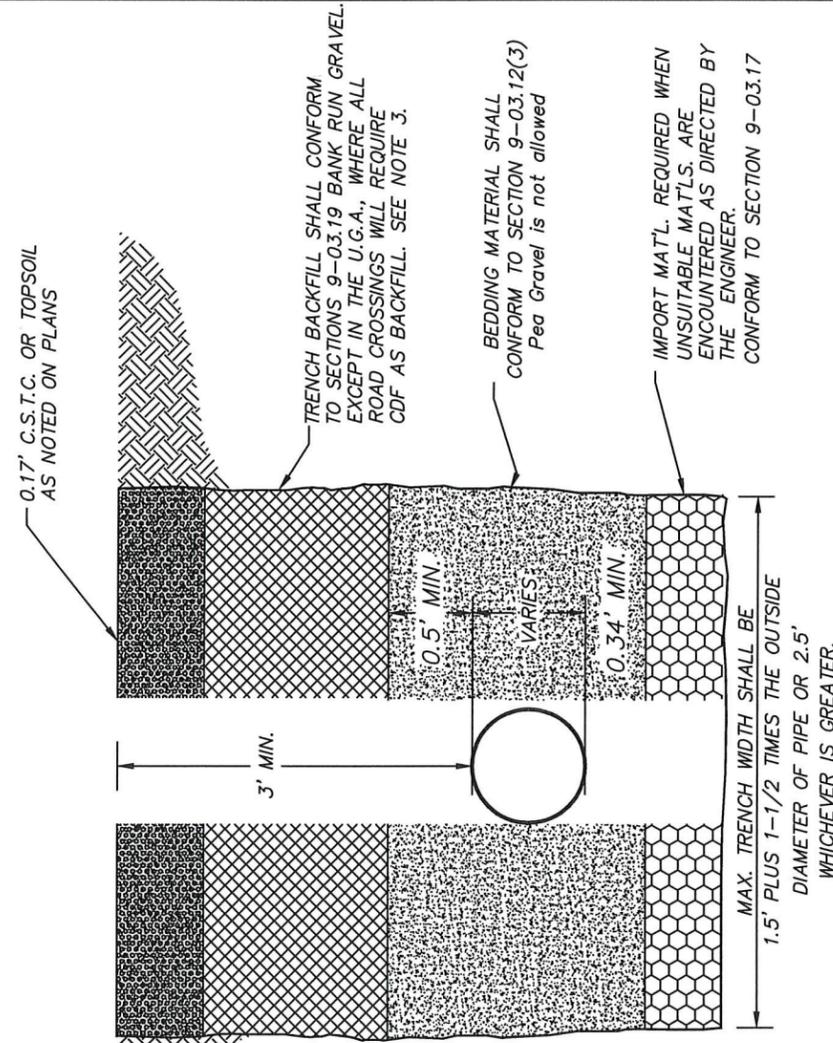
May, 2025

SD01

67 OF 99

TRENCH RESTORATION OUTSIDE PAVED AREA
DETAIL

4-02
68



NOTES:

1. ALL MATERIALS, WORKMANSHIP, AND INSTALLATION SHALL BE IN CONFORMANCE WITH WSDOT SPECIFICATIONS AND CITY OF CENTRALIA STANDARDS.
2. ALL MATERIALS EXCEPT BEDDING MATERIAL SHALL BE COMPACTED IN 6" MAX. LIFTS TO 95% DENSITY.
3. ALL ROADWAY TRENCH CROSSINGS SHALL REQUIRE CDF AS TRENCH BACKFILL EXCEPT FOR UTILITIES DEEPER THAN 5 FEET, 2 FOOT MIN. DEPTH IF > 3 FOOT BURY.
4. BEDDING MATERIAL SHALL CONFORM TO SECTION 9-03.12(3) OF WSDOT SPECIFICATIONS COMPACTED TO 95% OF MAX. DENSITY PER ASTM D1557.
5. KEEP TRENCH BOTTOM COMPACTED WITH UNIFORM GRADE. A BELL JOINT SHALL BE REQUIRED AT EACH JOINT FOR PROPER SUPPORT. NO TEMPORARY SUPPORTS, I.E. BLOCKS, WILL BE ALLOWED TO SUPPORT THE PIPE. TRENCH BOTTOM SHALL BE TO GRADE PRIOR TO PIPE INSTALLATION.
6. COLD MIX WILL BE REQUIRED FOR TEMPORARY PATCHES OR ROAD CROSSINGS.

7. ALL TRENCH BACKFILL AND BEDDING MATERIAL SHALL BE IMPORT, EXCEPT WHERE CDF IS REQUIRED (See Note 3). SUBMIT ALL MATERIALS FOR CITY REVIEW PRIOR TO CONSTRUCTION. (No Native material will be allowed without approval from City Engineer)

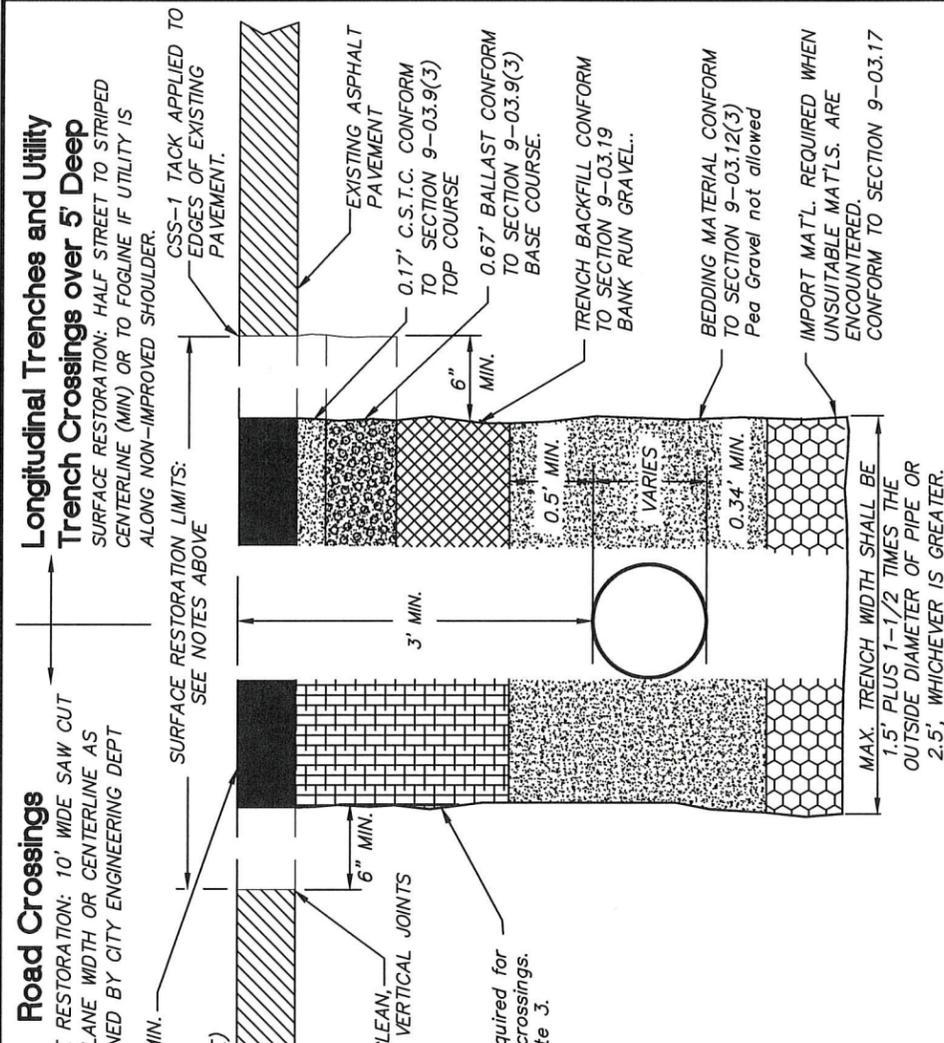
STD. PLAN NO.

4-02

APPROVED BY	REVISED DATE
CITY ENGINEER	03-2025
CITY OF CENTRALIA	
TRENCH RESTORATION OUTSIDE PAVED AREA	

TRENCH RESTORATION ASPHALT PAVEMENT
DETAIL

4-03
68



Road Crossings

SURFACE RESTORATION: 10' WIDE SAW CUT X FULL LANE WIDTH OR CENTERLINE AS DETERMINED BY CITY ENGINEERING DEPT

Longitudinal Trenches and Utility

Trench Crossings over 5' Deep
SURFACE RESTORATION: HALF STREET TO STRIPED CENTERLINE (MIN) OR TO FOGLINE IF UTILITY IS ALONG NON-IMPROVED SHOULDER.

CLASS 1/2" PG64-22 HMA 0.25' MIN. COMPACTED DEPTH OR EXISTING DEPTH WHICHEVER IS GREATER. (TACK EDGES AND CDF SURFACE)

SURFACE RESTORATION LIMITS: SEE NOTES ABOVE

1. ALL MATERIALS, WORKMANSHIP, AND INSTALLATION SHALL BE IN CONFORMANCE WITH WSDOT SPECIFICATIONS AND CITY OF CENTRALIA STANDARDS.
2. ALL MATERIALS EXCEPT BEDDING MATERIAL SHALL BE COMPACTED IN 6" MAX. LIFTS TO 95% DENSITY.
3. ALL ROADWAY TRENCH CROSSINGS SHALL REQUIRE CDF AS TRENCH BACKFILL EXCEPT FOR UTILITIES DEEPER THAN 5 FEET, 2 FOOT MIN. DEPTH IF > 3 FOOT BURY.
4. BEDDING MATERIAL SHALL CONFORM TO SECTION 9-03.12(3) OF WSDOT SPECIFICATIONS COMPACTED TO 95% OF MAX. DENSITY PER ASTM D1557.
5. KEEP TRENCH BOTTOM COMPACTED WITH UNIFORM GRADE. A BELL JOINT SHALL BE REQUIRED AT EACH JOINT FOR PROPER SUPPORT. NO TEMPORARY SUPPORTS, I.E. BLOCKS, WILL BE ALLOWED TO SUPPORT THE PIPE. TRENCH BOTTOM SHALL BE TO GRADE PRIOR TO PIPE INSTALLATION.
6. COLD MIX WILL BE REQUIRED FOR TEMPORARY PATCHES OR ROAD CROSSINGS.

NOTES:

7. ALL TRENCH BACKFILL AND BEDDING MATERIAL SHALL BE IMPORT, EXCEPT WHERE CDF IS REQUIRED (See Note 3). SUBMIT ALL MATERIALS FOR CITY REVIEW PRIOR TO CONSTRUCTION. (No Native material will be allowed without approval from City Engineer)

STD. PLAN NO.

4-03

APPROVED BY	REVISED DATE
CITY ENGINEER	09/2025
CITY OF CENTRALIA	
TRENCH RESTORATION ASPHALT PAVEMENT	



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DRAWN BY: J. DEBUSK
SURVEYED BY: J. DEBUSK
CHECKED BY: P. PAGE

May, 2025

SD02

68 OF 99

S YEW ST AND SOUTH ST
IMPROVEMENTS

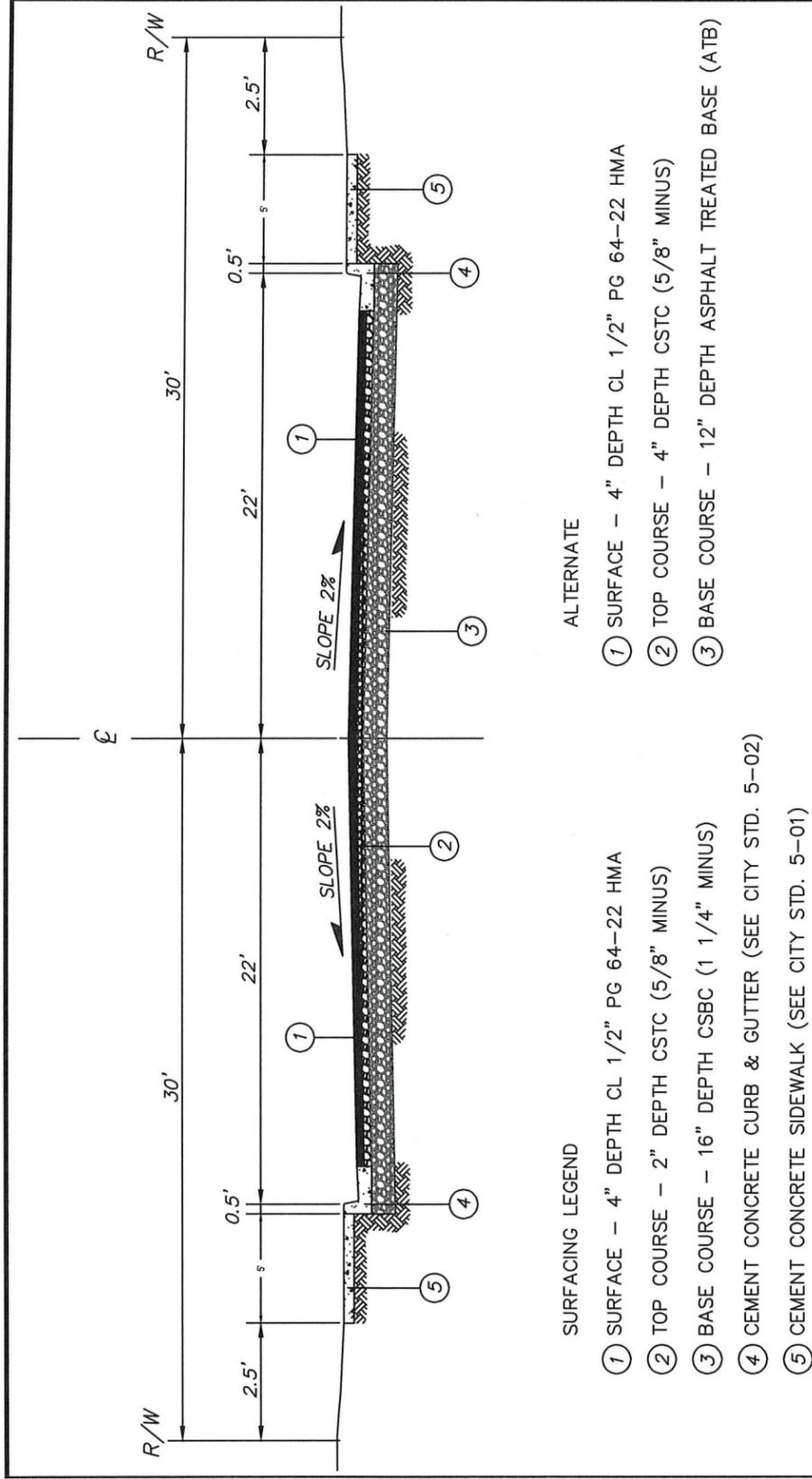
PW 2025-07

STREET DETAILS

CITY OF CENTRALIA
PUBLIC WORKS
ENGINEERING DEPT.
1100 N. TOWER AVE
CENTRALIA, WA 98531
P: 360.330.7512 F: 360.330.7516
CITY OF CENTRALIA.COM

TYPICAL COLLECTOR ROADWAY SECTION
DETAIL

4-07
69



SURFACING LEGEND

- ① SURFACE - 4" DEPTH CL 1/2" PG 64-22 HMA
- ② TOP COURSE - 2" DEPTH CSTC (5/8" MINUS)
- ③ BASE COURSE - 16" DEPTH CSBC (1 1/4" MINUS)
- ④ CEMENT CONCRETE CURB & GUTTER (SEE CITY STD. 5-02)
- ⑤ CEMENT CONCRETE SIDEWALK (SEE CITY STD. 5-01)

ALTERNATE

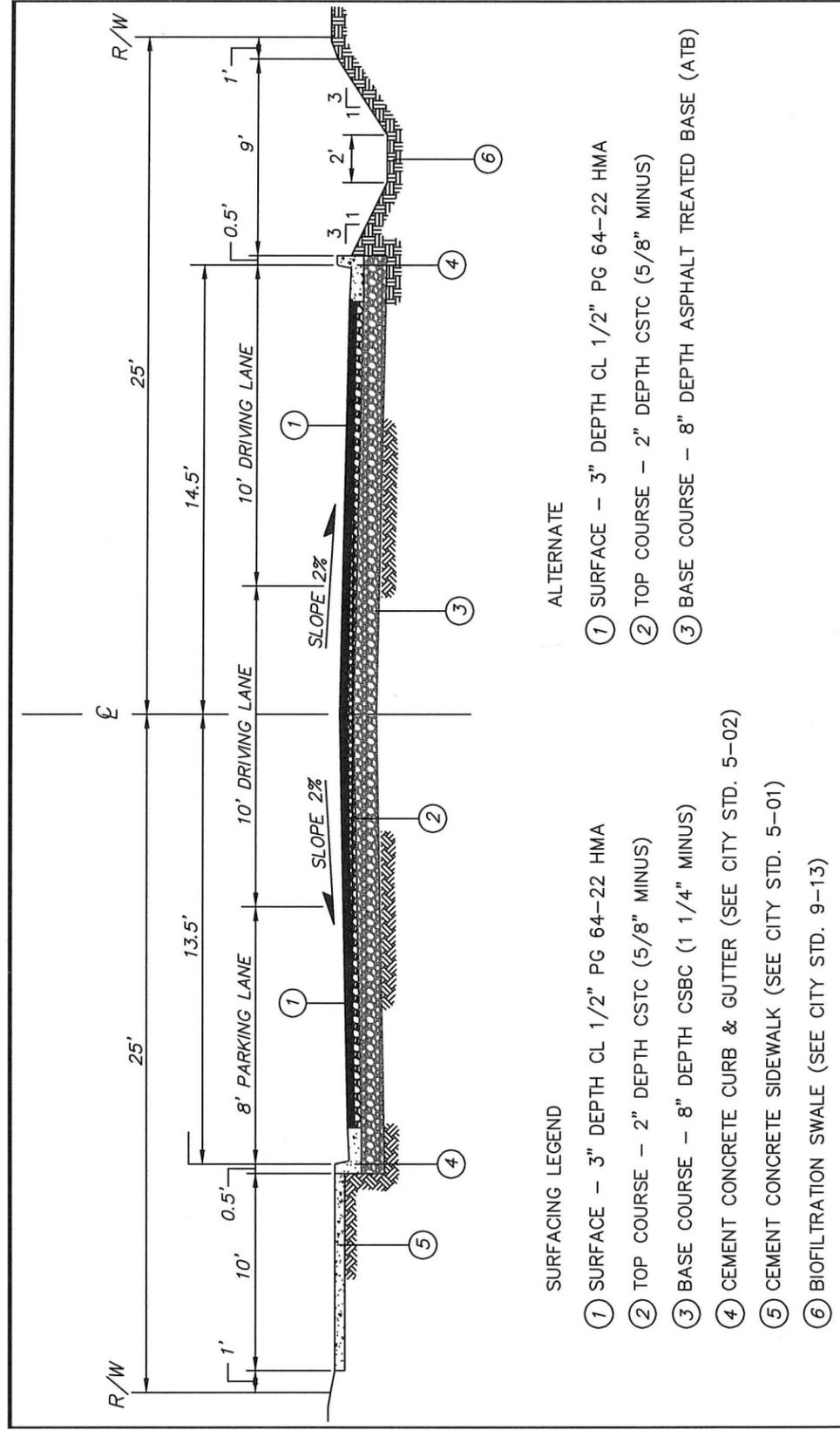
- ① SURFACE - 4" DEPTH CL 1/2" PG 64-22 HMA
- ② TOP COURSE - 4" DEPTH CSTC (5/8" MINUS)
- ③ BASE COURSE - 12" DEPTH ASPHALT TREATED BASE (ATB)

STD. PLAN NO.
4-07

APPROVED BY	REVISED DATE	CITY OF CENTRALIA ROADWAY SECTION FUNCTIONALLY CLASSIFIED COLLECTOR STREETS
CITY ENGINEER	07/2023	

MODIFIED LOCAL ACCESS ROADWAY SECTION WITH SWALE
DETAIL

5
69



SURFACING LEGEND

- ① SURFACE - 3" DEPTH CL 1/2" PG 64-22 HMA
- ② TOP COURSE - 2" DEPTH CSTC (5/8" MINUS)
- ③ BASE COURSE - 8" DEPTH CSBC (1 1/4" MINUS)
- ④ CEMENT CONCRETE CURB & GUTTER (SEE CITY STD. 5-02)
- ⑤ CEMENT CONCRETE SIDEWALK (SEE CITY STD. 5-01)
- ⑥ BIOFILTRATION SWALE (SEE CITY STD. 9-13)

ALTERNATE

- ① SURFACE - 3" DEPTH CL 1/2" PG 64-22 HMA
- ② TOP COURSE - 2" DEPTH CSTC (5/8" MINUS)
- ③ BASE COURSE - 8" DEPTH ASPHALT TREATED BASE (ATB)

APPROVED BY	REVISED DATE	CITY OF CENTRALIA ROADWAY SECTION MODIFIED LOCAL ACCESS WITH SWALE
CITY ENGINEER	03/2025	



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SURVEYED BY: J. DEBUSK
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May, 2025

SD03

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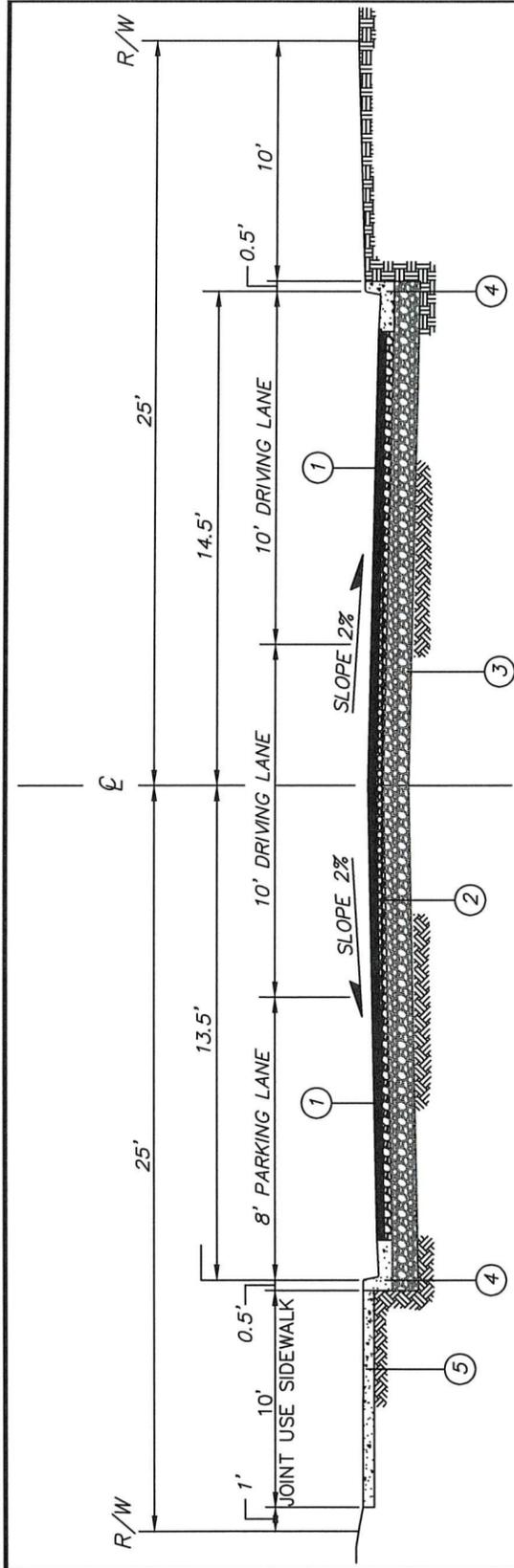
S YEW ST AND SOUTH ST
IMPROVEMENTS
PW 2025-07

STREET DETAILS

CITY OF CENTRALIA
PUBLIC WORKS
ENGINEERING DEPT.
1100 N. TOWER AVE
CENTRALIA, WA 98531
P: 360.330.7512 F: 360.330.7516
CITY OF CENTRALIA.COM

MODIFIED LOCAL ACCESS W/O SWALE
DETAIL

6
70



SURFACING LEGEND

- ① SURFACE - 3" DEPTH CL 1/2" PG 64-22 HMA
- ② TOP COURSE - 2" DEPTH CSTC (5/8" MINUS)
- ③ BASE COURSE - 8" DEPTH CSBC (1 1/4" MINUS)
- ④ CEMENT CONCRETE CURB & GUTTER (SEE CITY STD. 5-02)
- ⑤ CEMENT CONCRETE SIDEWALK (SEE CITY STD. 5-01)

ALTERNATE

- ① SURFACE - 3" DEPTH CL 1/2" PG 64-22 HMA
- ② TOP COURSE - 2" DEPTH CSTC (5/8" MINUS)
- ③ BASE COURSE - 8" DEPTH ASPHALT TREATED BASE (ATB)

APPROVED BY	REVISED DATE
CITY ENGINEER	03/2025
CITY OF CENTRALIA ROADWAY SECTION MODIFIED LOCAL ACCESS	



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May, 2025

SD04

70 OF 99

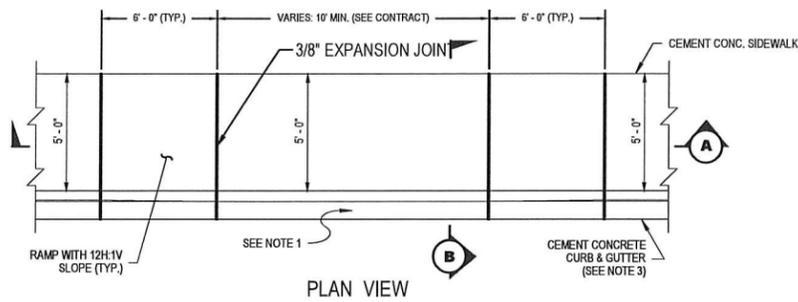
S YEW ST AND SOUTH ST
IMPROVEMENTS

PW 2025-07

STREET DETAILS

CITY OF CENTRALIA
PUBLIC WORKS
ENGINEERING DEPT.
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 P: 360.330.7512 F: 360.330.7516
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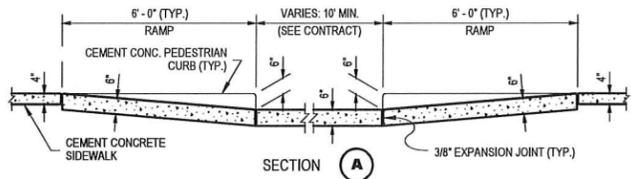
CEMENT CONCRETE DRIVEWAY ENTRANCE TYPE 1



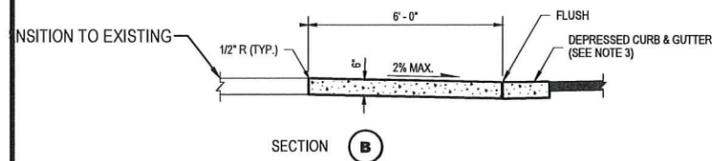
PLAN VIEW

NOTES

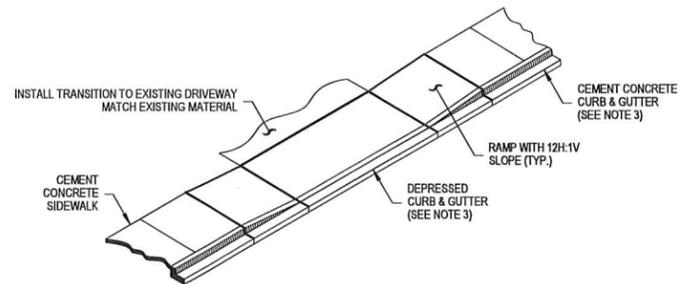
1. When the driveway width exceeds 15 feet, construct a full depth expansion joint with 3/8" joint filler along the driveway centerline.
2. See Std. Plan 5-01 for sidewalk details.
3. Curb and gutter shown. See Standard Plan 5-02 for curb details.
4. Avoid placing drainage structures, junction boxes or other obstructions in front of driveway entrances.
5. Concrete mix shall be class 4000psi mix.
6. Driveway transition to existing driveways shall match existing material.
7. Transition ped curbs shall be installed as needed.
8. Minimum 4" depth compacted CSTC shall be placed as base prior to concrete placement. (6" min. commercial)



SECTION A

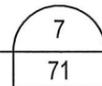


SECTION B

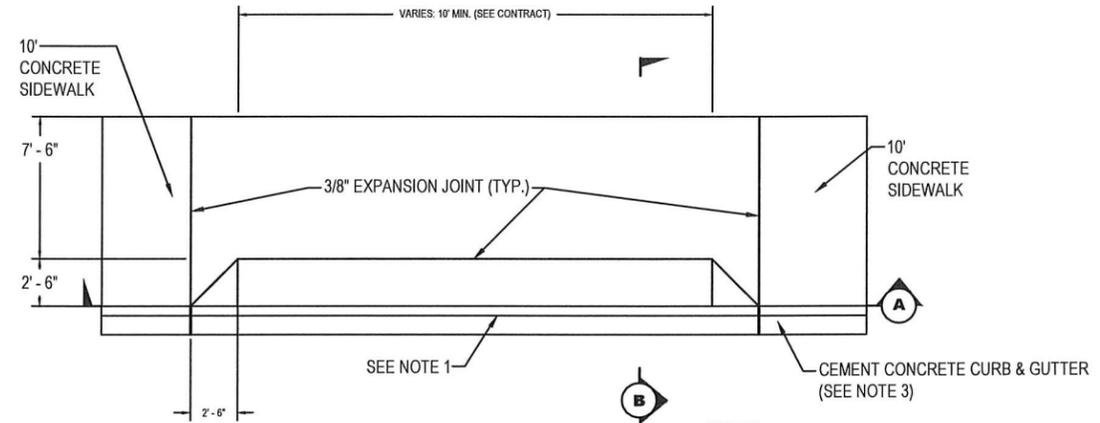


TYPE 1 - ISOMETRIC VIEW

TYPE-1 DRIVEWAY
DETAIL

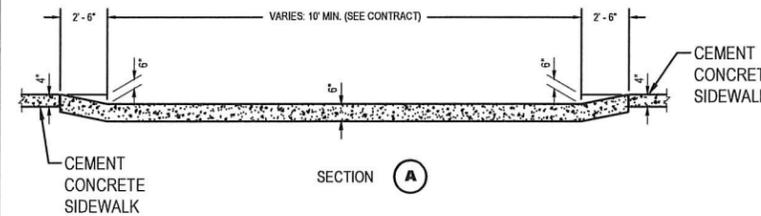


CEMENT CONCRETE DRIVEWAY ENTRANCE TYPE 2

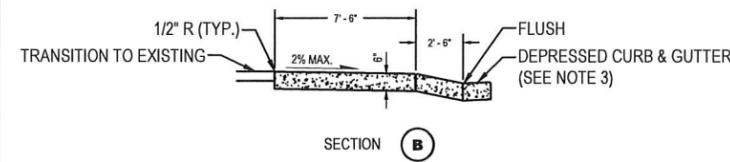


NOTES

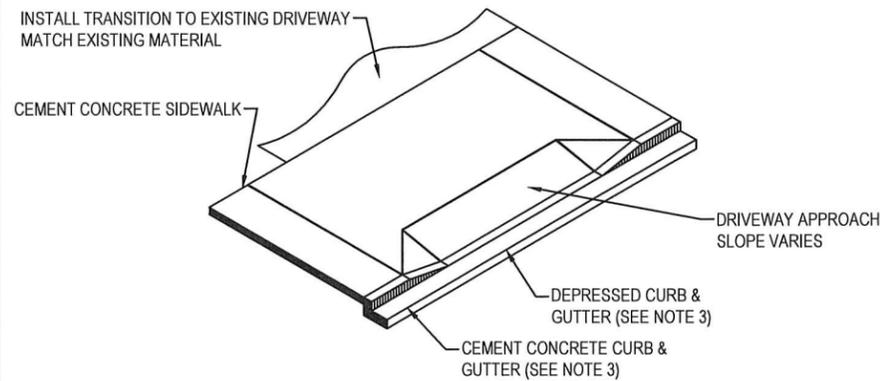
1. When the driveway width exceeds 15 feet, construct a full depth expansion joint with 3/8" joint filler along the driveway centerline.
2. See Std. Plan 5-01 for sidewalk details.
3. Curb and gutter shown. See Standard Plan 5-02 for curb details.
4. Avoid placing drainage structures, junction boxes or other obstructions in front of driveway entrances.
5. Concrete mix shall be class 4000psi mix.
6. Driveway transition to existing driveways shall match existing material.
7. Transition ped curbs shall be installed as needed.
8. Minimum 4" depth compacted CSTC shall be placed as base prior to concrete placement. (6" min. commercial)



SECTION A

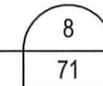


SECTION B



TYPE 2 - ISOMETRIC VIEW

TYPE-2 DRIVEWAY
DETAIL

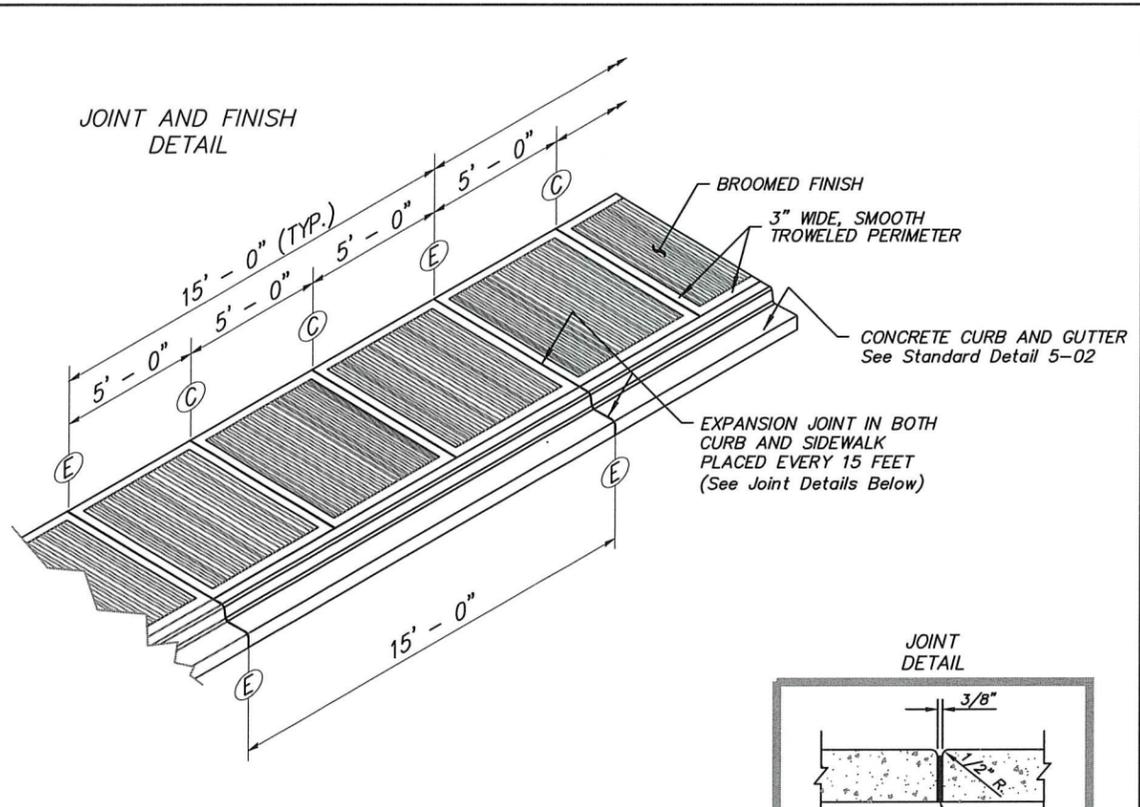


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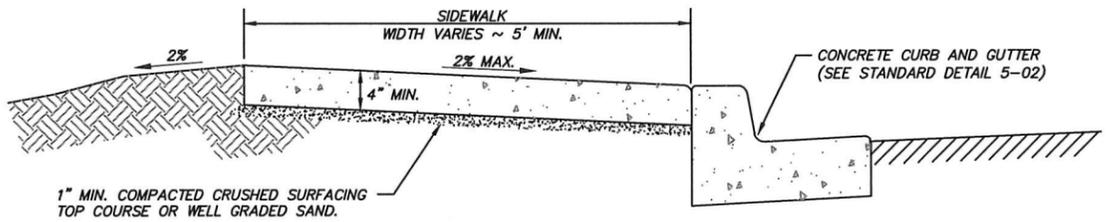
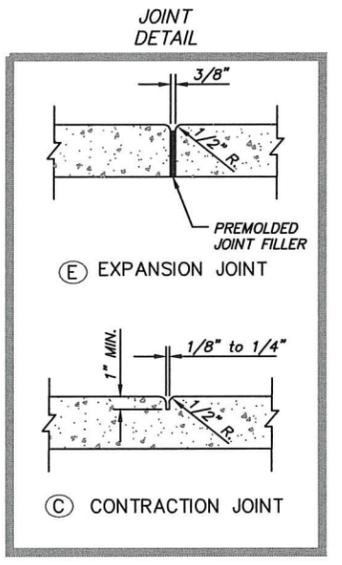
May, 2025

SD05

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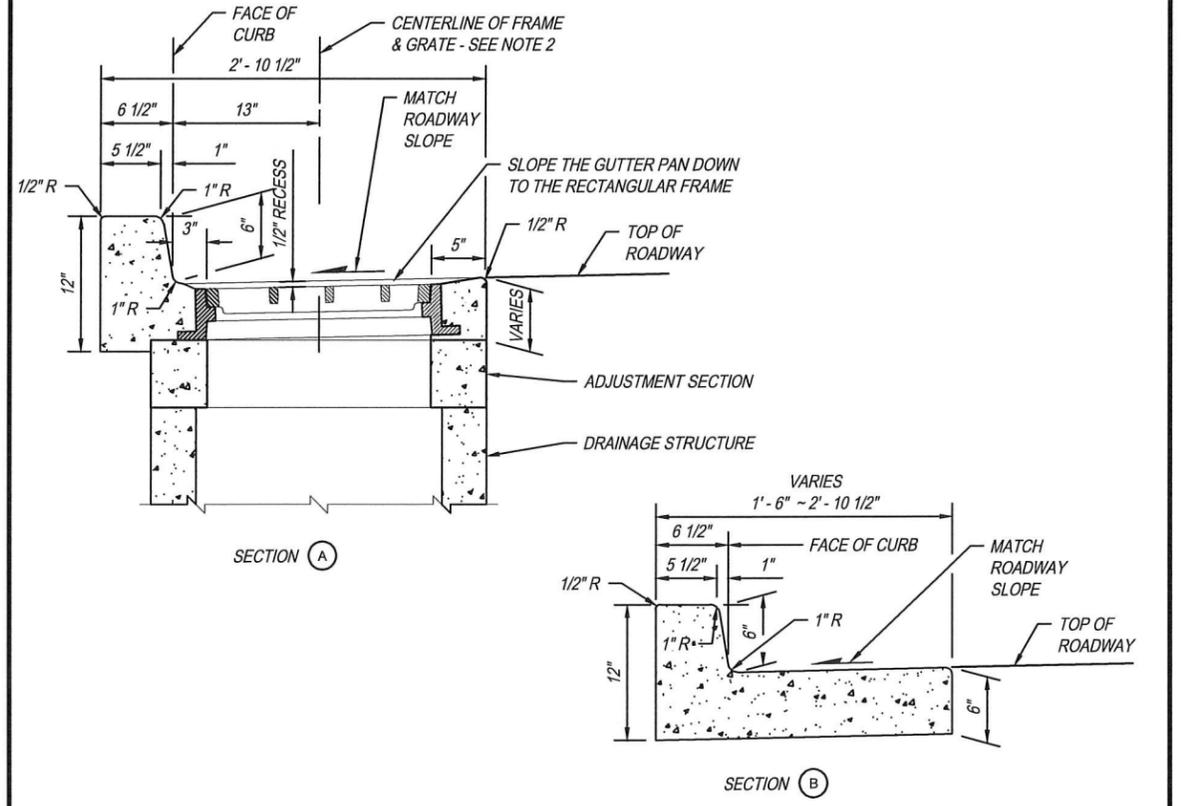
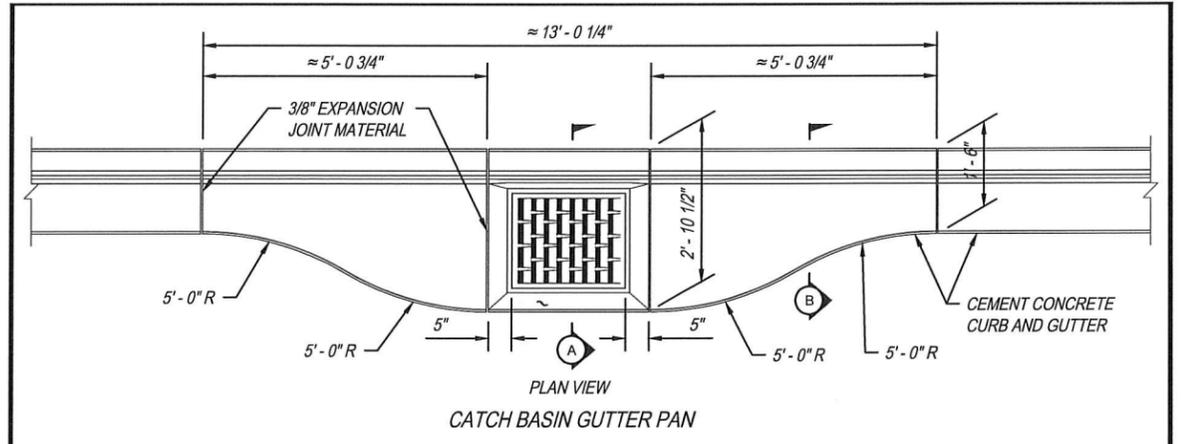
- GENERAL NOTES:**
1. EXPANSION JOINT MATERIAL TO BE 3/8" THICK PREMOLDED JOINT FILLER FULL THICKNESS OF CONCRETE.
 2. FORM AND SUBGRADE INSPECTION REQUIRED BEFORE POURING CONCRETE.
 3. SCORE MARKS SHALL BE 1/8" - 1/4" WIDE BY 1" DEEP. FOR SIDEWALKS OVER 8' IN WIDTH, A LONGITUDINAL SCORE MARK SHALL BE MADE ALONG CENTER OF WALK.
 4. WESTERN GROOVE FINISH REQUIRED AT SCORE MARKS.
 5. EXPANSION JOINTS SHALL BE INSTALLED IN CURB AND GUTTER AND IN SIDEWALK AT PC AND PT AT ALL CURB RETURNS, EXPANSION JOINTS SHALL BE PLACED IN SIDEWALK AT SAME LOCATIONS AS THOSE IN CURB AND GUTTER WHEN SIDEWALK IS ADJACENT TO CURB AND GUTTER, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
 6. CONCRETE DRIVEWAYS REQUIRE A MINIMUM DEPTH OF 6". (SEE STANDARD DETAIL 5-03 FOR DRIVEWAYS)



APPROVED BY	REVISED DATE	CITY OF CENTRALIA	STD. PLAN NO.
CITY ENGINEER	06/2017	SIDEWALK DETAILS	5-01
2022 Standard Drawings			

SIDEWALK
DETAIL

5-01
72



1. THE INTENT OF THIS DESIGN IS TO FACILITATE THE COMPACTION OF HOT MIX ASPHALT PAVEMENT ADJACENT TO A DRAINAGE STRUCTURE.
2. THE CENTERLINE OF THE DRAINAGE STRUCTURE MAY DIFFER FROM THE CENTERLINE OF THE FRAME AND GRATE.
3. EXPANSION JOINT MATERIAL TO BE 3/8" THICK PREMOLDED JOINT FILLER FULL THICKNESS OF CONCRETE. SEE SIDEWALK DETAILS (5-01) FOR EXPANSION JOINT SPACING.
4. FORM AND SUBGRADE INSPECTION REQUIRED BEFORE POURING CONCRETE.

APPROVED BY	REVISED DATE	CITY OF CENTRALIA	STD. PLAN NO.
CITY ENGINEER	03/2024	CEMENT CONCRETE CURB and GUTTER	5-02
2022 Standard Drawings			

CURB AND GUTTER
DETAIL

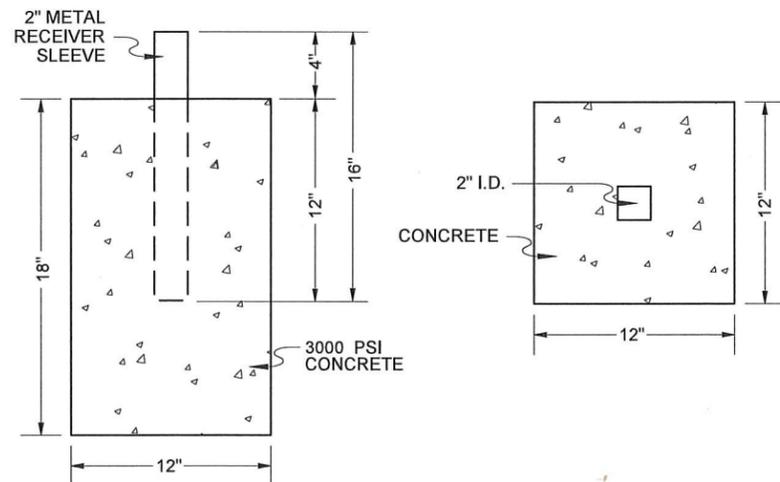
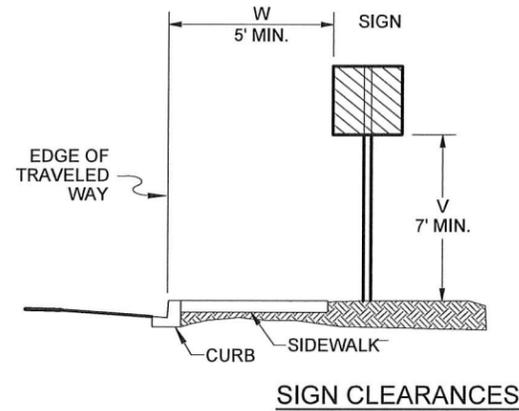
5-02
72



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CHECKED BY: P. PAGE

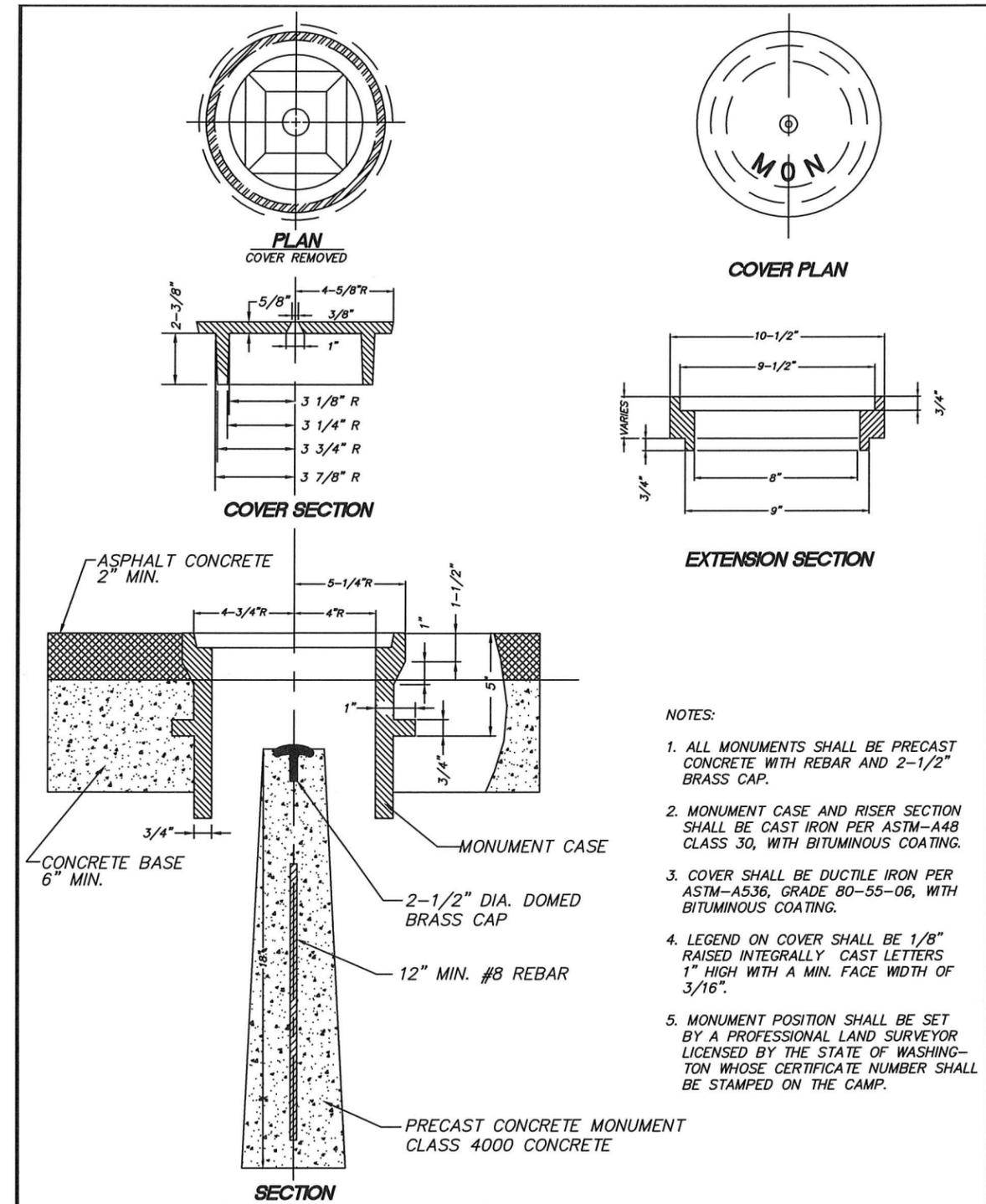
NOTES:

1. The minimum vertical distance from the bottom of the sign to the ground shall not be less than 7' for signs located within the Design Clear Zone.
2. Sign post shall be placed behind sidewalk wherever possible.
3. Where no curb exists, sign posts shall be 10" from edge of travel way or fog line.



SIGN INSTALLATION IN SIDEWALK SECTION
DETAIL

9
N.T.S. 73



NOTES:

1. ALL MONUMENTS SHALL BE PRECAST CONCRETE WITH REBAR AND 2-1/2" BRASS CAP.
2. MONUMENT CASE AND RISER SECTION SHALL BE CAST IRON PER ASTM-A48 CLASS 30, WITH BITUMINOUS COATING.
3. COVER SHALL BE DUCTILE IRON PER ASTM-A536, GRADE 80-55-06, WITH BITUMINOUS COATING.
4. LEGEND ON COVER SHALL BE 1/8" RAISED INTEGRALLY CAST LETTERS 1" HIGH WITH A MIN. FACE WIDTH OF 3/16".
5. MONUMENT POSITION SHALL BE SET BY A PROFESSIONAL LAND SURVEYOR LICENSED BY THE STATE OF WASHINGTON WHOSE CERTIFICATE NUMBER SHALL BE STAMPED ON THE CAMP.

APPROVED BY	REVISED DATE	CITY OF CENTRALIA	STD. PLAN NO.
CITY ENGINEER	06/2017	SURVEY MONUMENT	4-04
2022 Standard Drawings			

SURVEY MONUMENT
DETAIL

4-04
73

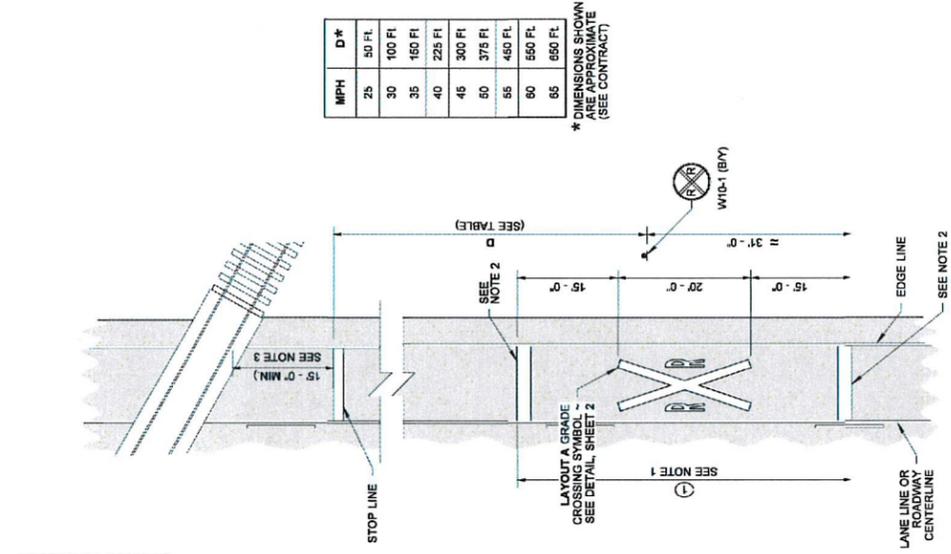


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May, 2025

SD07

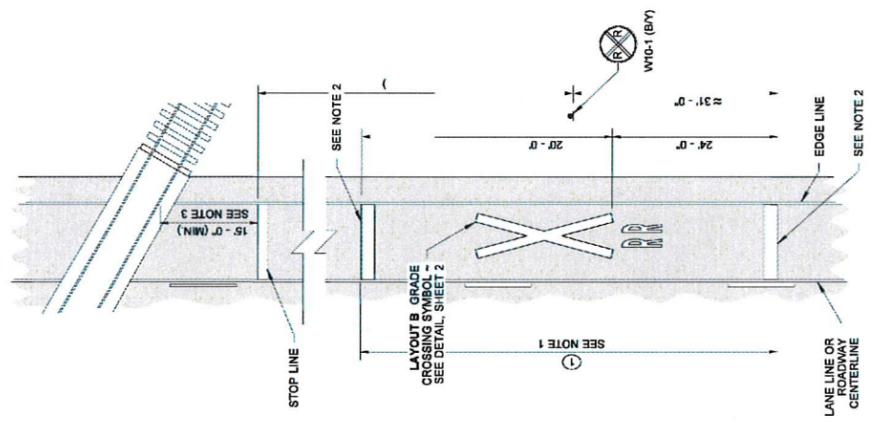
73 OF 99



① TOTAL MARKING AREA (PER 12' (FT) WIDE LANE) = 109.75 SQ. FT.

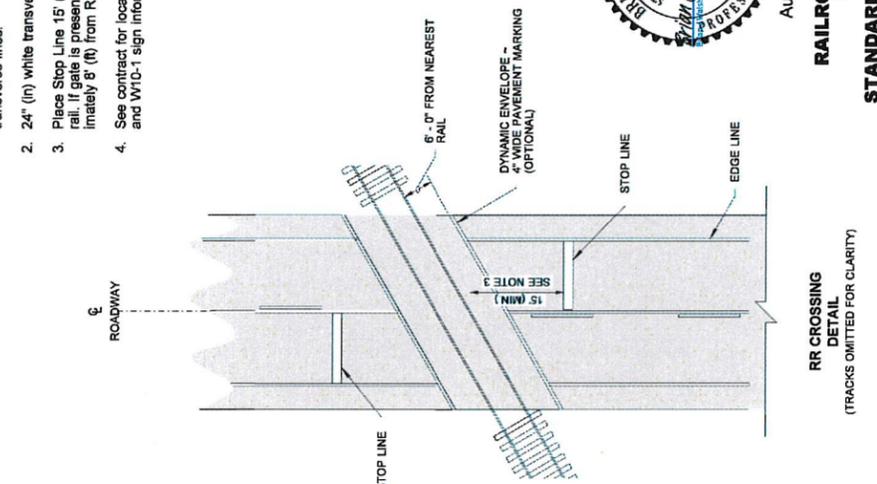
STANDARD SYMBOL

LAYOUT A



① TOTAL MARKING AREA (PER 12' (FT) WIDE LANE) = 111.50 SQ. FT.

LAYOUT B (WSDOT PRIMARY ON RURAL ROADWAYS)



RR CROSSING DETAIL (TRACKS OMITTED FOR CLARITY)

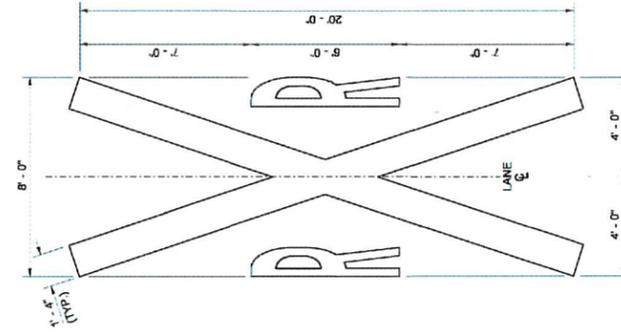
- GENERAL NOTES**
- Bid Item "Railroad Crossing Symbol" includes "X" symbol, letters, and two 24" (in) white transverse lines.
 - 24" (in) white transverse line.
 - Place Stop Line 15' (ft) minimum from nearest rail. If gate is present, place stop line approximately 8' (ft) from RR gate.
 - See contract for location, material requirements, and W10-1 sign information.



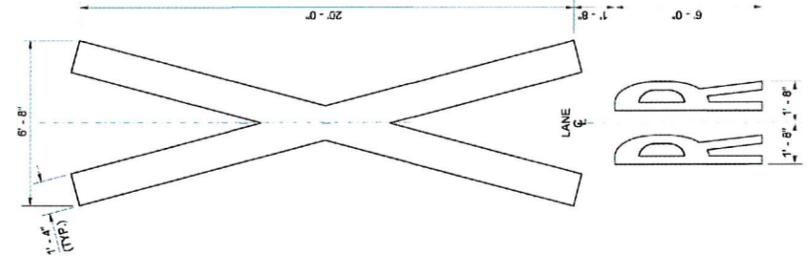
Aug 1, 2022
RAILROAD CROSSING LAYOUT
STANDARD PLAN M-11.10-04
SHEET 1 OF 2 SHEETS

APPROVED FOR PUBLICATION
Mark Galtner
STATE ENGINEER
Washington State Department of Transportation

DRAWN BY: FERN LIDDELL

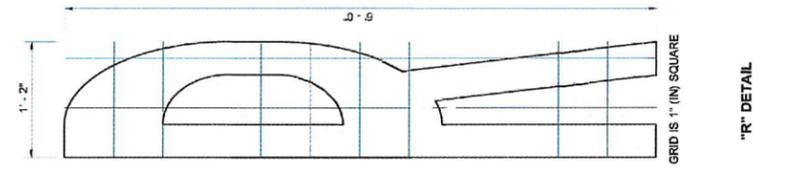


LAYOUT A
GRADE CROSSING SYMBOL
DETAIL



LAYOUT B
GRADE CROSSING SYMBOL
DETAIL

STANDARD SYMBOL DETAILS



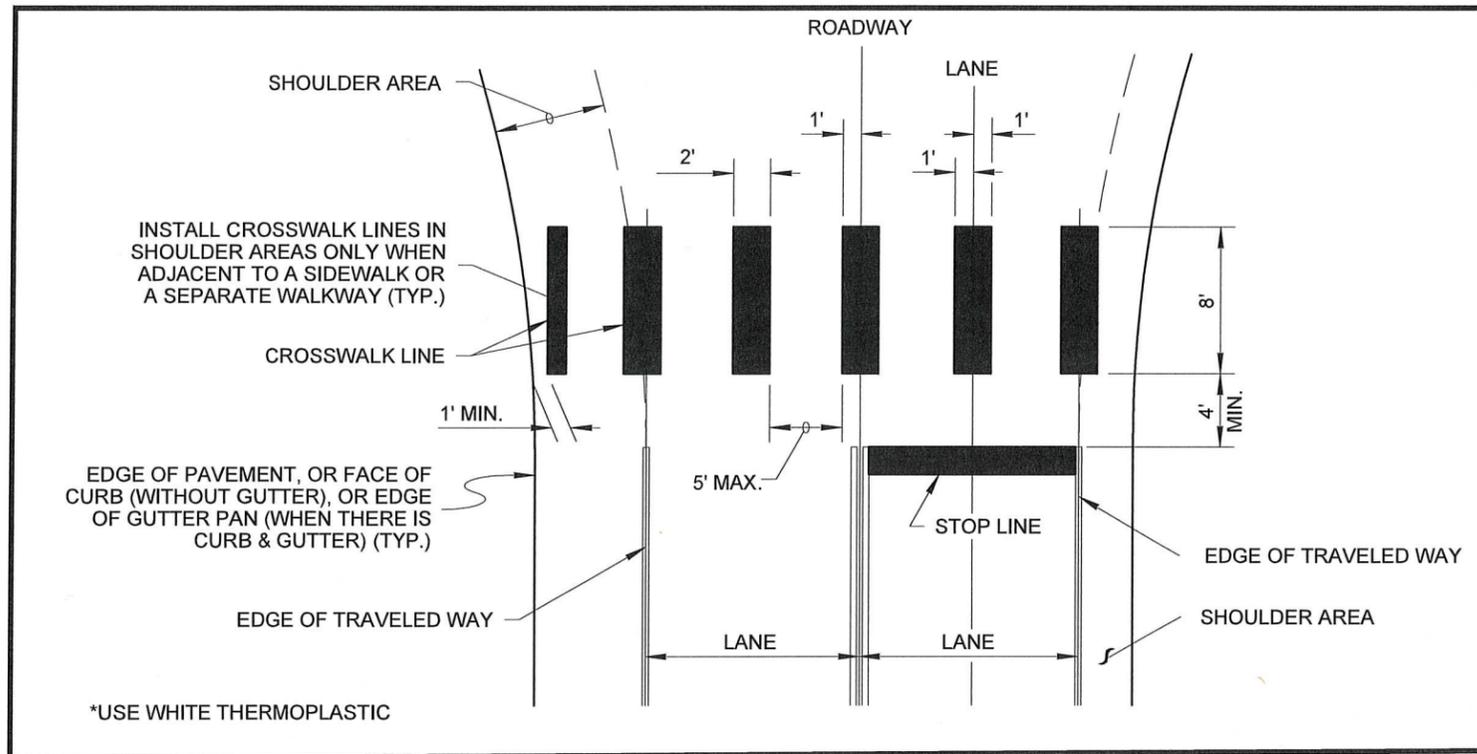
"R" DETAIL



Aug 1, 2022
RAILROAD CROSSING LAYOUT
STANDARD PLAN M-11.10-04
SHEET 2 OF 2 SHEETS

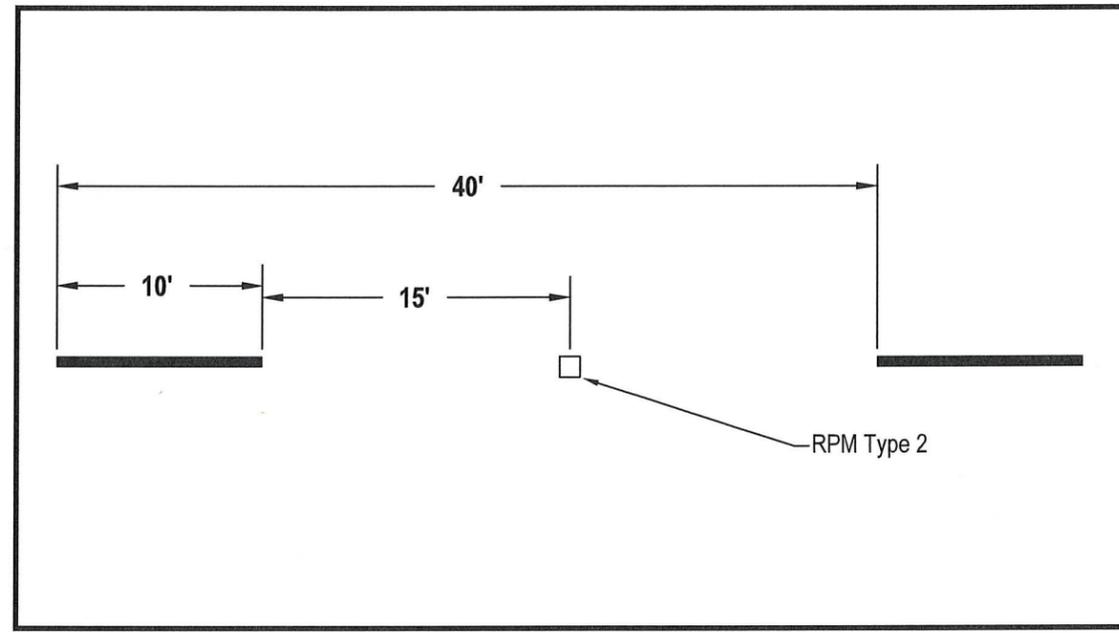
APPROVED FOR PUBLICATION
Mark Galtner
STATE ENGINEER
Washington State Department of Transportation





TYPICAL CROSSWALK & STOP BAR
DETAIL

11
N.T.S.
75



PLASTIC LINE WITH RPMS
DETAIL

12
N.T.S.
75

STREET DETAILS

S YEW ST AND SOUTH ST
IMPROVEMENTS

PW 2025-07



DESIGNED BY: P. PAGE
DRAWN BY: J. DEBUSK
SURVEYED BY: J. DEBUSK
CHECKED BY: P. PAGE

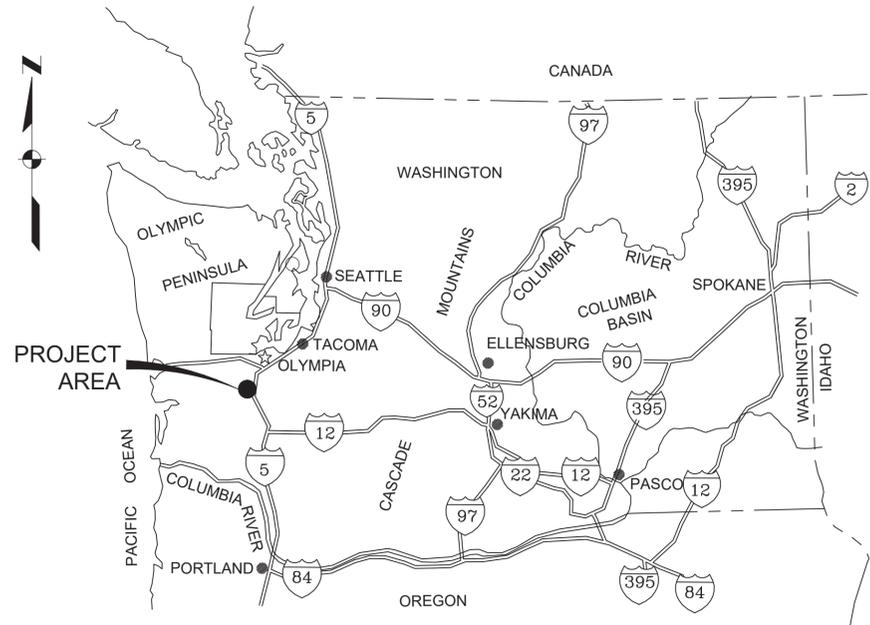
May, 2025

SD09

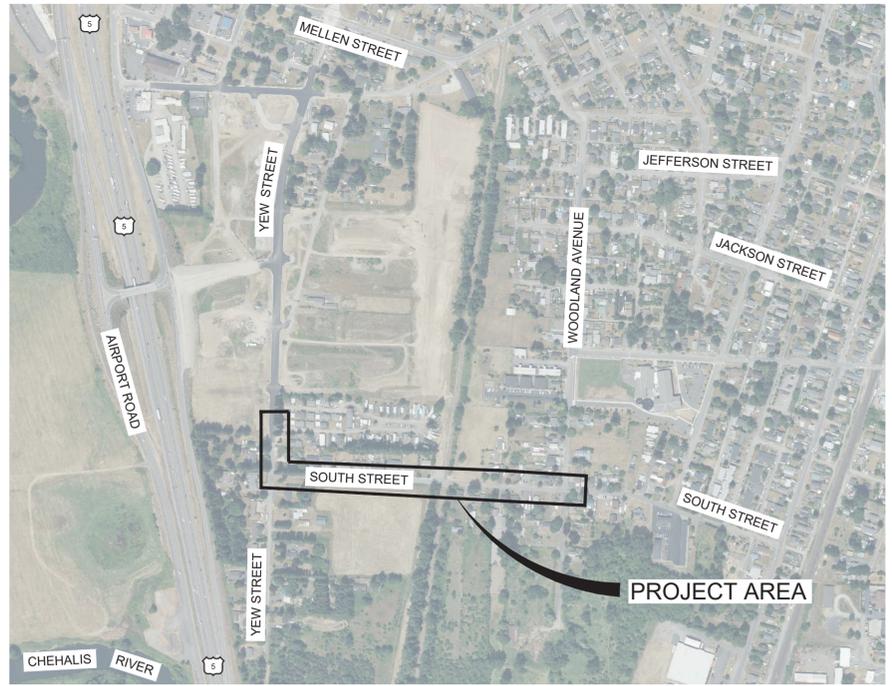
Plot Date: 5/8/2025 4:13 PM
User: CHAD CADIENTE
p:\k\ce-pw\Documents\Clients\Centralia_City of WAP\Projects\Jefferson_LS & FM Upgrade Preliminary Design_2397004.00\10-Drawings\1-Gravity\General\2397004.00-1-G-001

CITY OF CENTRALIA CENTRALIA, WASHINGTON

S. YEW STREET AND SOUTH STREET GRAVITY SEWER UPGRADE



VICINITY MAP
SCALE: NTS



LOCATION MAP
SCALE: NTS

DRAWING INDEX

SHT #	DWG #	SHEET TITLE
GENERAL		
1	G-001	COVER, LOCATION & VICINITY MAPS, AND DRAWING INDEX
2	G-002	GENERAL NOTES AND LEGEND
3	G-003	OVERALL SITE PLAN, SURVEY CONTROL AND KEYMAP
SANITARY SEWER		
4	C-001	CIVIL ABBREVIATIONS AND NOTES
5	C-002	CIVIL LEGEND
6	C-003	CIVIL DETAILS - I
7	C-004	CIVIL DETAILS - II
8	C-005	CIVIL DETAILS - III
9	C-201	PLAN AND PROFILE - GRAVITY LINE STA 1+00 TO STA 3+50
10	C-202	PLAN AND PROFILE - GRAVITY LINE STA 3+50 TO STA 8+00
11	C-203	PLAN AND PROFILE - GRAVITY LINE STA 8+00 TO STA 12+00
12	C-204	PLAN AND PROFILE - GRAVITY LINE STA 12+00 TO STA 16+00
13	C-205	PLAN AND PROFILE - GRAVITY LINE STA 16+00 TO END
14	C-206	TRENCHLESS CROSSING AND MONITORING PLAN
15	C-207	TRENCHLESS CROSSING NOTES AND DETAILS



ISSUED FOR BID	NO	REVISION	DATE	BY	<p>ANY PRINTS NOT BEARING THIS STAMP MAY HAVE BEEN PRINTED PRIOR TO ADVERTISING AND CANNOT BE CONSIDERED AS BID DOCUMENTS. USERS OF THIS DOCUMENT IN EDITABLE ELECTRONIC FORMATS ARE CAUTIONED AGAINST USE WITHOUT FIRST DETERMINING WHETHER CHANGES MAY HAVE BEEN MADE SUBSEQUENT TO ITS PREPARATION.</p>	<p>SCALES</p> <p>0" = 1"</p> <p>0" = 25mm</p> <p>IF THIS BAR IS NOT DIMENSION SHOWN, ADJUST SCALES ACCORDINGLY.</p>		DESIGNED JM	<p>CITY OF CENTRALIA CENTRALIA, WASHINGTON</p> <p>S. YEW STREET AND SOUTH STREET GRAVITY SEWER UPGRADE</p>	<p>CITY OF CENTRALIA CENTRALIA, WASHINGTON</p> <p>S. YEW STREET AND SOUTH STREET GRAVITY SEWER UPGRADE</p>	<p>DESIGNED JM</p> <p>DRAWN CBD</p> <p>CHECKED NTW</p>	<p>CITY OF CENTRALIA CENTRALIA, WASHINGTON</p> <p>S. YEW STREET AND SOUTH STREET GRAVITY SEWER UPGRADE</p>	<p>SCALE NTS</p> <p>JOB NO 2397004.00</p> <p>DATE MAY 2025</p> <p>SHEET 1 OF 15</p> <p>G-001</p>
	Kennedy Jenks												

GENERAL NOTES

PERMITTING
PUGET SOUND AND WILLAPA HARBOR RAILROAD (CHEHALIS WESTERN RAILROAD)
ENCROACHMENT PERMIT

CALLOUTS AND SHORTHAND SYMBOLS

- DIRECTION OF FLOW
- SHEET KEYNOTE
- CENTERLINE
- PLATE
- DIAMETER
- APPROXIMATELY
- ANGLE
- WATER/FLUID SURFACE
- BUILDING GRID LABEL OR ACCESSORY NUMBER
- DOOR
- ROOM
- WALL
- WINDOW

REVISION SYMBOLS

CLOUDED AREA INDICATES CHANGED INFORMATION; NUMBER IN TRIANGLE INDICATES THE DRAWING VERSION AND MATCHES WITH REVISION INFORMATION IN THE REVISION BLOCK WITHIN THE DRAWING BORDER

SYMBOLOLOGY

- NORTH ARROW
- NEW
- EXISTING; SCREENED TEXT LABELS FOR SCREENED ELEMENTS IMPLY THE ELEMENT IS EXISTING
- FUTURE
- EXISTING LINEAR ELEMENTS TO BE REMOVED OR DEMOLISHED
- EXISTING NON-LINEAR ELEMENTS TO BE REMOVED OR DEMOLISHED
- CENTERLINE
- MATCHLINE CONTINUED ON DRAWING
- MATCHLINE
- BREAK LINE
- NATIVE EARTH (IN SECTION)
- ENGINEERED FILL (IN SECTION)
- LANDSCAPE FILL (IN PLAN AND SECTION)
- SAND OR GROUT (IN PLAN AND SECTION)
- GRAVEL (IN PLAN AND SECTION)
- AGGREGATE BASE (IN PLAN AND SECTION)
- CRUSHED ROCK (IN PLAN AND SECTION)
- CONCRETE (IN PLAN AND SECTION)
- GRATING (IN PLAN)
- CHECKER PLATE (IN PLAN)
- MASONRY (IN SECTION)
- STEEL (IN SECTION)
- UTILITY CROSSING UNDERNEATH / UTILITY CROSSING OVER

CROSS-REFERENCING SYMBOLS

- FOUND ON DRAWING WHERE DETAIL, SECTION, OR ELEVATION IS CALLED OUT
- FOUND ON DRAWING WHERE DETAIL, SECTION, OR ELEVATION IS DRAWN
- DETAIL NUMBER
- SHEET ON WHICH DETAIL IS DRAWN, "-" IF ON SAME SHEET
- DETAIL TITLE
- SCALE: ###" = 1'-0"
- SHEET ON WHICH DETAIL IS CALLED OUT, "-" IF ON SAME SHEET
- SECTION LETTER
- SHEET ON WHICH SECTION IS DRAWN, "-" IF ON SAME SHEET
- SECTION TITLE
- SCALE: ###" = 1'-0"
- SHEET ON WHICH SECTION IS CUT, "-" IF ON SAME SHEET
- LETTERS USED WHEN MORE THAN ONE ELEVATION IS DRAWN WITHIN A SINGLE ROOM
- ELEVATION NUMBER
- SHEET ON WHICH ELEVATION IS DRAWN, "-" IF ON SAME SHEET
- INTERIOR ELEVATION A
- SCALE: ###" = 1'-0"
- SHEET ON WHICH ELEVATION IS CALLED OUT, "-" IF ON SAME SHEET
- STANDARD DETAIL NUMBER
- STANDARD DETAIL NUMBER
- STANDARD DETAIL TITLE
- SUB-TITLE
- SCALE: ###" = 1'-0"
- REV 00

NOTE
STANDARD DETAILS ARE LOCATED WITHIN THEIR RESPECTIVE DISCIPLINE, IMMEDIATELY FOLLOWING THE GENERAL ABBREVIATIONS, NOTES, AND LEGEND SHEETS.

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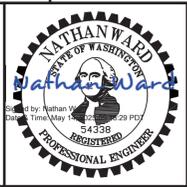
NO	REVISION	DATE	BY

NO	REVISION	DATE	BY

SCALES

0 — 1"
0 — 25mm

IF THIS BAR IS NOT DIMENSION SHOWN, ADJUST SCALES ACCORDINGLY.



DESIGNED: JM
DRAWN: CEC
CHECKED: NTW

CITY OF CENTRALIA
CENTRALIA, WASHINGTON

**S. YEW STREET AND SOUTH STREET
GRAVITY SEWER UPGRADE**

Kennedy Jenks

GENERAL NOTES AND LEGEND

SCALE	NTS
JOB NO	2397004.00
DATE	MAY 2025
SHEET	2 OF 15
	G-002

Plot Date: 5/8/2025 4:14 PM

User: CHAD CADIENTE

Design: 2397004.00-1-G-003

Project: 2397004.00-1-G-003

Client: Centralia, City of WAP

Project: S. Yew Street and South Street Gravity Sewer Upgrade



PUGET SOUND AND WILLAPA HARBOR
 RAILROAD (CHEHALIS WESTERN RAILROAD)

GENERAL SHEET NOTES

1. THE PURPOSE OF THIS TOPOGRAPHIC SURVEY IS FOR CIVIL ENGINEERING DESIGN. THIS IS NOT A BOUNDARY SURVEY. SOURCES OF BOUNDARY INFORMATION AS SHOWN INCLUDE FIELD-TIED MONUMENTATION, PLATS, COUNTY RECORDS OF SURVEY, AND AUDITOR INDEXING INFORMATION.
2. THE LOCATIONS OF EXISTING UNDERGROUND UTILITY SYSTEMS, AS SHOWN HEREON, ARE TAKEN FROM UTILITY LOCATE PAINT MARKS OR AS-BUILT PLANS AND ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. ALL LOCATOR SERVICES SHOULD BE CONTACTED PRIOR TO ANY CONSTRUCTION OR SUBSURFACE EXPLORATION. CALL 1-800-424-5555.
3. FIELD SURVEY: KPG PSOMAS, APRIL, 2024. LICENSEE MICHAEL R. BOWEN, P.L.S. NO. 29294/RONALD D. REICHEL, P.L.S. NO. 38015.
4. CONTOUR INTERVAL = 1 FOOT, ±0.5 FOOT PER NATIONAL MAPPING STANDARDS. CONTOURS DERIVED FROM DIRECT FIELD OBSERVATIONS.
5. STORM AND SEWER CONNECTIONS HAVE BEEN DRAWN FROM CENTER OF LID TO CENTER OF LID.
6. THE LOCATIONS AND DIMENSIONS OF UNDERGROUND VAULTS HAVE NOT BEEN VERIFIED AND ARE APPROXIMATE.
7. DUCTS ARE NOTED AS INDICATED IN THE FIELD BY UTILITY LOCATORS. MULTIPLE LINES AND/OR UTILITIES MAY SHARE DUCT RUNS; THIS MAY NOT BE SHOWN IN THE DRAWING.

HORIZONTAL AND VERTICAL DATUM

HORIZONTAL DATUM: NAD 83/11
 VERTICAL DATUM: NAVD 88
 HORIZONTAL AND VERTICAL DATUMS ESTABLISHED BY RTK GPS OBSERVATION UTILIZING WSRN (WASHINGTON STATE REFERENCE NETWORK)

CONTROL POINT LIST

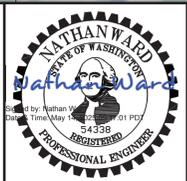
PT #	DESCRIPTION	NORTHING	EASTING	ELEVATION
2	SPIKE	510125.58	1020590.52	177.22'
100	SPIKE	510397.83	1020599.50	177.01'
101	SPIKE	509817.45	1020623.83	174.98'
102	SPIKE	509617.27	1020587.38	176.14'
103	SPIKE	509593.80	1021496.58	178.28'
104	SPIKE	509522.35	1022215.00	178.44'
105	SPIKE	509976.44	1022241.44	181.10'
106	SPIKE	510304.56	1022229.32	180.63'
107	SPIKE	510667.49	1022285.55	175.22'
108	SPIKE	510945.25	1022292.63	176.52'
109	SPIKE	511308.32	1022271.13	178.01'
200	MAG	509621.51	1020939.68	177.50'
201	MAG	509613.39	1021112.19	177.84'
319	MAG	511233.84	1022936.50	176.42'

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NO	REVISION	DATE	BY

SCALES
 0 1" = 100'
 0 25mm
 IF THIS BAR IS NOT DIMENSION SHOWN, ADJUST SCALES ACCORDINGLY.



DESIGNED: JM
 DRAWN: CBD
 CHECKED: NTW

CITY OF CENTRALIA
 CENTRALIA, WASHINGTON
**S. YEW STREET AND SOUTH STREET
 GRAVITY SEWER UPGRADE**
 Kennedy Jenks

SCALE: 1"=100'
 JOB NO: 2397004.00
 DATE: MAY 2025
 SHEET 3 OF 15
G-003

**OVERALL SITE PLAN,
 SURVEY CONTROL AND KEYMAP**

Plot Date: 5/8/2025 4:17 PM

User: CHAD CADIENTE

2

p:\k\ce-pw\Documents\Clients\Centralia_City of WAP\Projects\Jefferson_LS & FM Upgrade Preliminary Design_2397004.00\10-Drawings\1-Gravity\Civil\2397004.00-1-C-001

ABBREVIATIONS

Table of abbreviations with columns for symbol, description, and unit. Includes entries like FOOT, FEET (DR), INCH, INCHES (DS), POUND, NUMBER (DTL(-S)), PERCENT (DWG(-S)), etc.

CIVIL NOTES

- GENERAL
1. OBTAIN PERMITS NECESSARY TO COMPLETE FEATURES WITHIN EASEMENTS, DEDICATIONS AND PUBLIC RIGHT-OF-WAY.
2. COORDINATES ARE PROVIDED AS FOLLOWS UNLESS OTHERWISE NOTED ON DRAWINGS:
2.1. FACE OF WALL
2.2. FACE OF CURB
2.3. CORNER OF EQUIPMENT PADS AND VAULTS
3. ORIENT SURFACE FEATURES PARALLEL TO CURB/GUTTER OR WALLS UNLESS OTHERWISE NOTED.
4. PROTECT ALL SURVEY MONUMENTS.
5. SHOULD THE CONTRACTOR DISCOVER ANY DISCREPANCIES BETWEEN THE CONDITIONS EXISTING IN THE FIELD AND THE INFORMATION SHOWN ON THESE DRAWINGS, CONTRACTOR SHALL NOTIFY THE OWNER PRIOR TO PROCEEDING WITH CONSTRUCTION.
6. THE CONTRACTOR SHALL MAINTAIN A COPY OF AN APPROVED SET OF PLANS ON THE CONSTRUCTION SITE AT ALL TIMES.
7. "LIMITS OF EXCAVATION" INDICATES THE MINIMUM MATERIAL REMOVAL REQUIRED DUE TO GEOTECHNICAL RECOMMENDATIONS AND THE NATURE OF THE WORK. TAKE CARE NOT TO EXCAVATE BEYOND THE LIMITS INDICATED IN THE CONTRACT DOCUMENTS.
GRADING
1. ADJUST VALVE BOXES, PULL BOXES, VAULTS, AND MAHOLES TO FINISHED GRADES AND SLOPES SHOWN ON CIVIL GRADING DRAWINGS UNLESS OTHERWISE SHOWN OR SPECIFIED. MANHOLES IN OPEN FIELDS SHALL BE SET ONE FOOT ABOVE GRADE. APPROXIMATE RIM ELEVATIONS ARE SHOWN ON DRAWINGS.
2. GRADES SHOWN ARE TO TOP OF THE FINISHED SURFACE UNLESS OTHERWISE NOTED.
DEMOLITION
1. DEMOLITION EXTENTS INDICATED IN DRAWINGS ARE THE MINIMUM REQUIRED TO COMPLETE THE WORK. EXTENTS OF DEMOLITION REFLECTED IN THE CONTRACTOR'S BID SHALL INCORPORATE DEMOLITION MEANS AND METHODS.
2. PROVIDE COORDINATES OF ABANDONED UTILITIES IN THE RECORD DRAWINGS.
PIPING
1. THESE NOTES ARE GENERIC IN NATURE. PROJECT SPECIFIC NOTES ON FOLLOWING DRAWINGS TAKE PRECEDENCE.
2. THE CONTRACTOR SHALL COMPLY WITH THE STATE DEPARTMENT OF HEALTH SERVICES CRITERIA FOR THE SEPARATION BETWEEN WATER MAINS, NON-POTABLE WATER UTILITIES, AND SEWER. SEE CITY OF CENTRALIA DEVELOPMENT GUIDELINES AND PROJECT SPECIAL PROVISIONS FOR ADDITIONAL PIPING REQUIREMENTS.
3. INSTALL STORM AND SEWER PIPELINES WITH A MINIMUM OF 36 INCHES OF COVER, UNLESS OTHERWISE NOTED. WATER MAIN PIPELINES SHALL HAVE A MINIMUM OF 30-INCHES OF COVER AND A MAXIMUM OF 36-INCHES OF COVER.
4. PRIOR TO SUBMITTAL OF PIPE SHOP DRAWINGS, VERIFY THE INVERT ELEVATIONS, ALIGNMENT, OUTSIDE DIAMETER, LOCATION, AND MATERIAL OF ALL EXISTING PIPELINES TO WHICH NEW PIPELINES WILL BE CONNECTED.
5. PIPE STATIONING REPRESENTS THE HORIZONTAL PROJECTION OF THE PIPE CENTERLINE BETWEEN MANHOLES, POINTS OF INFLECTION, AND/OR CENTER OF FITTINGS.
6. LOCATION OF EXISTING UTILITIES ARE APPROXIMATE. CONTRACTOR SHALL EXPOSE EXISTING PIPE(S) OR STRUCTURE(S) TO WHICH NEW PIPE(S) IS/ARE CONNECTING. VERIFY EXACT LOCATION, SIZE, MATERIALS, AND INVERT ELEVATIONS PRIOR TO SUBMITTING PIPE DRAWINGS.
7. PROTECT EXISTING UTILITIES UNLESS OTHERWISE NOTED.
8. USE CAUTION WHEN WORKING IN PROXIMITY TO GAS. NOTIFY UTILITY COMPANY WHEN WORKING WITHIN THE VICINITY, AND FOLLOW UTILITY SAFETY GUIDELINES AND OSHA REQUIREMENTS. HAND DIG ALL CONSTRUCTION WITHIN 5 FEET HORIZONTALLY OF ANY GAS MAIN.
9. USE CAUTION WHEN WORKING IN PROXIMITY TO OVERHEAD ELECTRICAL LINES. FOLLOW ELECTRICAL UTILITY SAFETY GUIDELINES AND OSHA REQUIREMENTS.
10. CROSSING PIPELINES SHOWN IN PROFILE REPRESENT OUTSIDE DIAMETER UNLESS OTHERWISE NOTED.
11. ORIENT ECCENTRIC MANHOLE(S) SUCH THAT THE LID IS OUTSIDE OF WHEEL PATH.
12. COORDINATES LOCATING MANHOLES ARE TO THE CENTER OF THE STRUCTURE.
13. SIZE OF FITTING SHOWN ON THE DRAWINGS CORRESPONDS TO THE ADJACENT STRAIGHT RUN OF PIPE, UNLESS OTHERWISE NOTED. MATCH TYPE OF JOINT AND FITTING MATERIAL TO ADJACENT STRAIGHT RUN OF PIPE, UNLESS OTHERWISE NOTED.
14. COORDINATE AND PERFORM CONNECTIONS TO THE WORK OF OTHER CONTRACTORS, IF APPLICABLE.

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Table with columns: NO, REVISION, DATE, BY

SCALES
0 1"
0 25mm
IF THIS BAR IS NOT DIMENSION SHOWN, ADJUST SCALES ACCORDINGLY.



Table with columns: DESIGNED (JM), DRAWN (CEC), CHECKED (NTW)

CITY OF CENTRALIA
CENTRALIA, WASHINGTON
S. YEW STREET AND SOUTH STREET
GRAVITY SEWER UPGRADE
Kennedy Jenks logo

Table with columns: SCALE (NTS), JOB NO (2397004.00), DATE (MAY 2025), SHEET (4 OF 15), C-001

GEOTECHNICAL SYMBOLS

- SOIL BORING LOCATION
- TEST PIT LOCATION
- MONITORING WELL

CORROSION CONTROL SYMBOLS

- ELECTROLYSIS TEST STATION
- CATHODIC TEST STATION
- CORROSION TEST STATION
CASING TEST STATION
INSULATING JOINT TEST STATION
FOREIGN PIPELINE TEST STATION
CURRENT SPAN TEST STATION

GENERAL CIVIL SYMBOLS

- SLOPE ON PAVED SURFACE OR PIPE
- BERM SLOPE (HORZ TO VERT)
- SURFACE FLOW DIRECTION

TOPOGRAPHY AND MAPPING SYMBOLS

- MAJOR CONTOURS
- MINOR CONTOURS
- TOP OF SLOPE
- TOE OF SLOPE
- PROPERTY LINE
- RIGHT-OF-WAY LINE
- GRADE BREAK
- RIDGE LINE
- EASEMENT LINE
- TEMPORARY EASEMENT LINE
- TRAIL OR DIRT ROAD
- FLOW LINE
- FLOOD HAZARD AREA
- EDGE OF WETLANDS
- RAILROAD
- SITE OR RETAINING WALL
- GUARDRAIL (PERMANENT)
- LIMITS OF GRADING
- LIMITS OF EXCAVATION

EXISTING FEATURES

- VEGETATION
- TREE (SIZE AND TYPE)
- WELL
- POWER POLE
- GUY LINE AND ANCHOR
- MAILBOX
- TRAFFIC SIGNAL BOX OR POLE
- SIGN
- TELEPHONE BOX
- COMMUNICATION/CATV BOX
- HOSE BIBB
- HOSE RACK
- WATER BOX/METER
- BACKFLOW PREVENTER
- MANHOLE OR VAULT
- FIRE HYDRANT

PIPING AND UTILITIES

- AV/AR VALVE (IN PLAN) LOCATE ON SIDE SHOWN
- AV/AR VALVE (IN PROFILE)
- BLOWOFF (IN PLAN) LOCATE ON SIDE SHOWN
- BLOWOFF (IN PROFILE)
- FIRE HYDRANT (IN PLAN)
- MANHOLE (IN PLAN)
- CLEANOUT TO GRADE (IN PLAN)
- STORM DRAIN
- STREETLIGHT SYMBOL
- WATER MAIN

ROADWORK AND PAVING

NOTES:
1. PAVING PATTERNS MAY ONLY APPEAR IN PORTIONS OF PAVED AREAS TO DEFINE LIMITS OF PAVING.
2. SEE ALSO GENERAL LEGEND FOR ADDITIONAL PAVING PATTERNS.

- ASPHALT (IN PLAN AND SECTION)
- CONCRETE CURB
- CONCRETE CURB AND GUTTER
- DRIVEWAY/ACCESS RAMP
- WELDED WIRE FABRIC (IN SECTION)

CONTROL SYMBOLS

- BENCH MARK
- SITE COORDINATES (SEE TABLE ON DRAWINGS)
- SITE COORDINATES
- CONTROL POINT
- MONUMENT
- FINISHED ELEVATION/GRADE
- EXISTING ELEVATION/GRADE
- CURVE DATA (SEE TABLE ON DRAWINGS)

EXISTING UTILITIES

G	NATURAL GAS
HPG	HIGH PRESSURE GAS
LPG	LIQUID PETROLEUM
W	WATER LINE
PW	POTABLE WATER
FIRE	FIRE SUPPLY WATER
REW	RECLAIMED WATER
UW	UTILITY/NON-POTABLE WATER
IRR	IRRIGATION WATER
SDR	STORM DRAIN
SS	SANITARY SEWER
STM	STEAM
TEL	TELEPHONE
COMM	COMMUNICATIONS LINE
FOC	FIBER OPTIC CABLE
CATV	CABLE TV
E	POWER
UNK	UNIDENTIFIED
ABND	ABANDONED UTILITY

PIPING DESIGNATIONS

NEW PIPING

CENTERLINE ELEVATION (UNLESS OTHERWISE NOTED)

XXX.X

6"-RW

PROCESS CODE

NOMINAL PIPE DIAMETER

DOUBLE-CONTAINED PIPING

1/2" (2")-LAS

PROCESS PIPE DIAMETER

CONTAINMENT PIPE DIAMETER

EXISTING PIPING

6"-RW

6"-RW

FUTURE PIPING

6"-RW

6"-RW

NOTE
ALL PIPING CALLOUTS ON PROCESS AND INSTRUMENTATION DIAGRAMS, AND EXISTING PIPING CALLOUTS ON CIVIL DRAWINGS WILL APPEAR AS NORMAL TEXT WITHOUT THE CAPSULES SHOWN IN THE EXAMPLES ABOVE.

PIPE SCHEDULE

ID	DESCRIPTION	SIZE	SERVICE	MATERIAL	FLOW	FIELD JOINTS
SS	SANITARY SEWAGE	18"	BURIED	PVC	GRAVITY	BELL AND SPIGOT
SS	SANITARY SEWAGE	8"	BURIED	PVC	GRAVITY	BELL AND SPIGOT
PE	CORRUGATED POLYETHYLENE STORM SEWER PIPE	32"	BURIED	POLYETHYLENE	GRAVITY	BELL AND SPIGOT

STRUCTURES

- FENCE (CHAIN LINK)
- FENCE (WOOD)
- FENCE (SWING GATE)
- PROTECTIVE BARRIER
- PROTECTIVE BARRIER (REMOVABLE)
- STRUCTURE
- STRUCTURE (BELOW GRADE)

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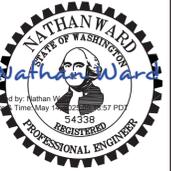
NO	REVISION	DATE	BY

SCALES

0 1" = 100'

0 25mm = 100mm

IF THIS BAR IS NOT DIMENSION SHOWN, ADJUST SCALES ACCORDINGLY.



DESIGNED: JM

DRAWN: CEC

CHECKED: NTW

CITY OF CENTRALIA
CENTRALIA, WASHINGTON

S. YEW STREET AND SOUTH STREET
GRAVITY SEWER UPGRADE

KJ Kennedy Jenks

CIVIL LEGEND

SCALE: NTS

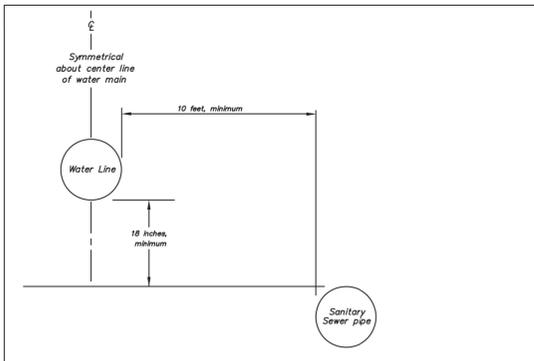
JOB NO: 2397004.00

DATE: MAY 2025

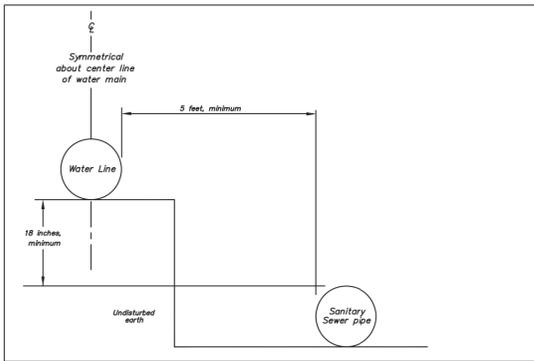
SHEET 5 OF 15

C-002

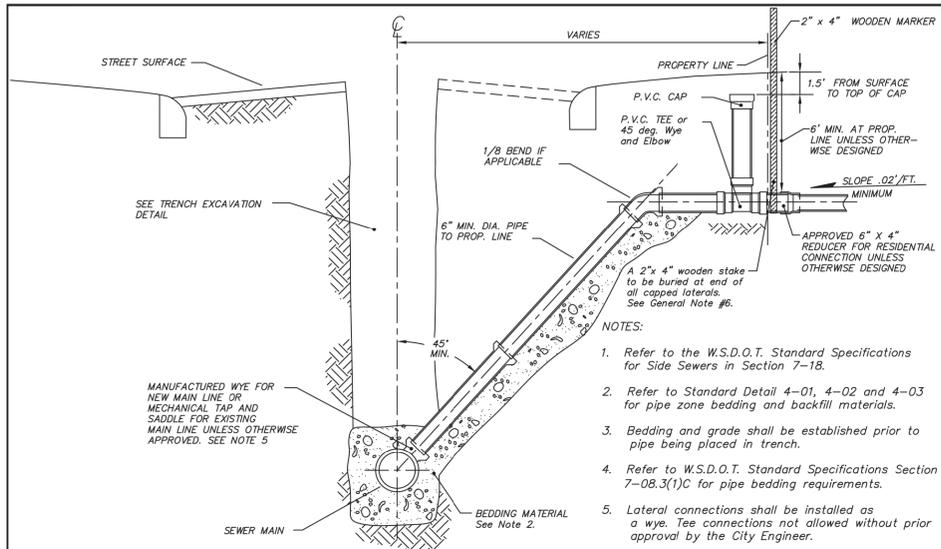
Required Separation Between Water Lines and Sanitary Sewers, Parallel Construction



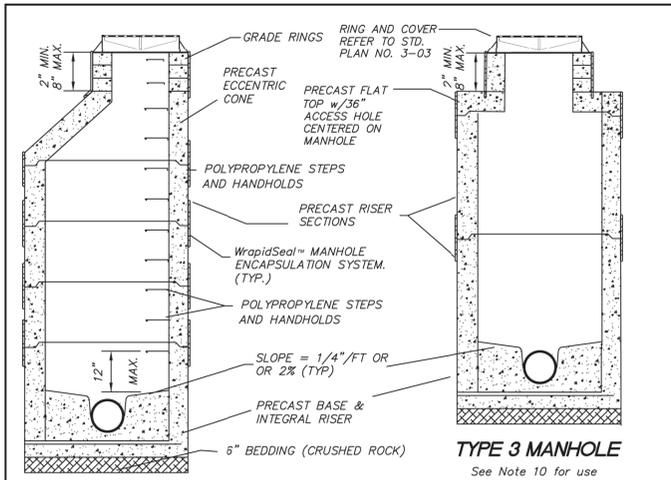
Required Separation Between Water Lines and Sanitary Sewers, Unusual Conditions Parallel Construction



APPROVED BY	REVISED DATE	CITY OF CENTRALIA	STD. PLAN NO.
CITY ENGINEER	06/2017	WATER AND SEWER SEPARATION DETAIL	2-19
2022 Standard Drawings			



APPROVED BY	REVISED DATE	CITY OF CENTRALIA	STD. PLAN NO.
CITY ENGINEER	06-2023	SANITARY SEWER LATERAL SERVICE CONNECTION	3-01
2022 Standard Drawings			

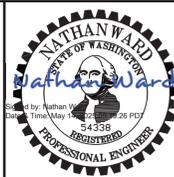


- TYPE 1 MANHOLE**
See Note 10 for use
- TYPE 3 MANHOLE**
See Note 10 for use
- NOTES:
- PRECAST MANHOLES SHALL MEET THE REQUIREMENTS OF ASTM C478. JOINTS SHALL BE RUBBER GASKETED CONFORMING TO ASTM C443 AND SHALL BE GROUTED FROM THE INSIDE. LIFT HOLES SHALL BE GROUTED FROM THE OUTSIDE AND INSIDE OF THE MANHOLE. GROUT SHALL BE ANTI-MICROBIAL GROUT.
 - STEPS IN MANHOLE SHALL HAVE 6" MINIMUM CLEARANCE. HANDHOLDS IN ADJUSTMENT SECTION SHALL HAVE 3" MINIMUM CLEARANCE. THE FIRST STEP OR HANDHOLD SHALL BE A MAXIMUM OF 12" FROM COVER.
 - PRECAST BASES SHALL BE FURNISHED WITH CUTOUTS OR KNOCKOUTS. KNOCKOUTS SHALL HAVE A WALL THICKNESS OF 2" MINIMUM.
 - ALL MANHOLES SHALL BE ANTI-MICROBIAL CONCRETE OR COATED WITH RAVEN 405 COATING ON ALL INTERIOR SURFACES.
 - CONNECTION TO MANHOLE SHALL BE MADE BY KOR-N-SEAL BOOT, SAND COLLAR OR A-LOCK.
 - SEE STANDARD PLAN 3-03 FOR CASTING REQUIREMENTS AND MANHOLE COLLAR INSTALLATION.
 - USE OF 6" GRADE RINGS ONLY ALLOWED WITH PRIOR APPROVAL OF CITY ENGINEER.
 - MANHOLES SHALL BE SIXTY (60) INCHES IN DIAMETER, UNLESS OTHERWISE SPECIFIED BY THE CITY.
 - ALL EXTERIOR JOINTS INCLUDING ADJUSTMENT RINGS SHALL BE WRAPPED WITH WrapidSeal™.
 - MANHOLES 4FT TO 6FT DEEP MEASURING FROM THE RIM TO THE INVERT SHALL BE TYPE 3 MANHOLES. FOR MANHOLES LESS THAN 4FT DEEP, CONTACT CITY ENGINEER FOR REQUIREMENTS.

APPROVED BY	REVISED DATE	CITY OF CENTRALIA	STD. PLAN NO.
CITY ENGINEER	06-2023	SANITARY SEWER MANHOLES	3-02
2022 Standard Drawings			

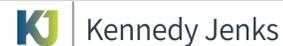
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DESIGNED JM
DRAWN CEC
CHECKED NTW

CITY OF CENTRALIA
CENTRALIA, WASHINGTON
S. YEW STREET AND SOUTH STREET
GRAVITY SEWER UPGRADE

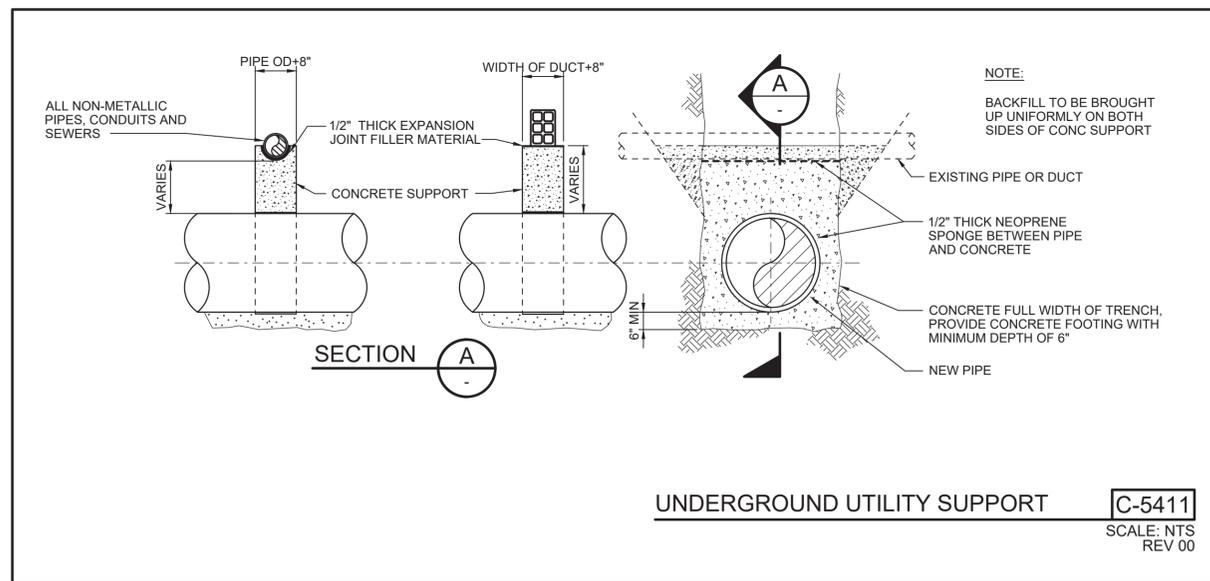
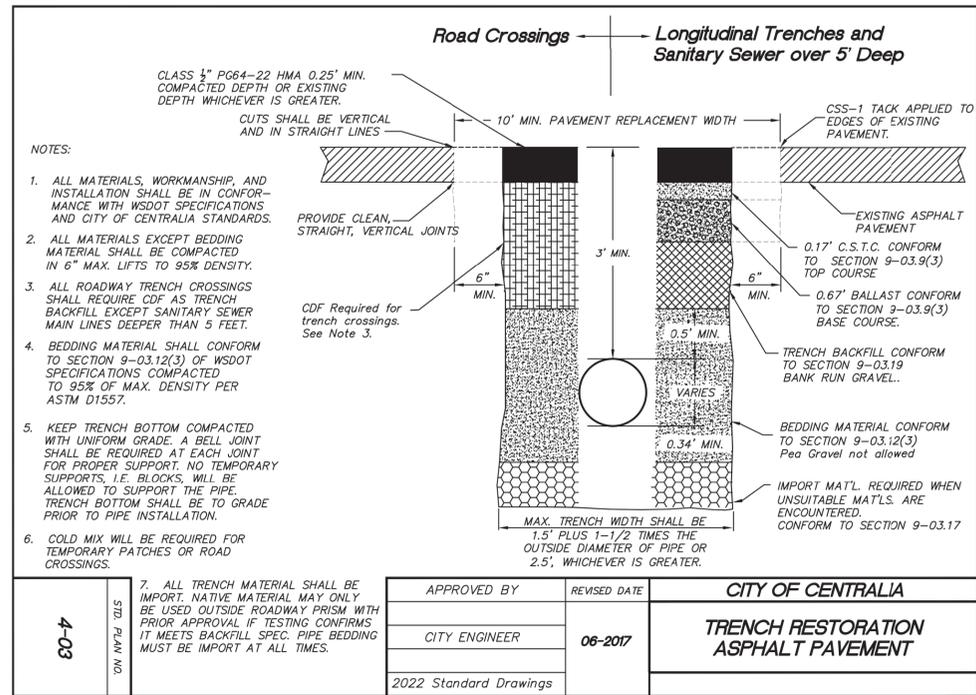
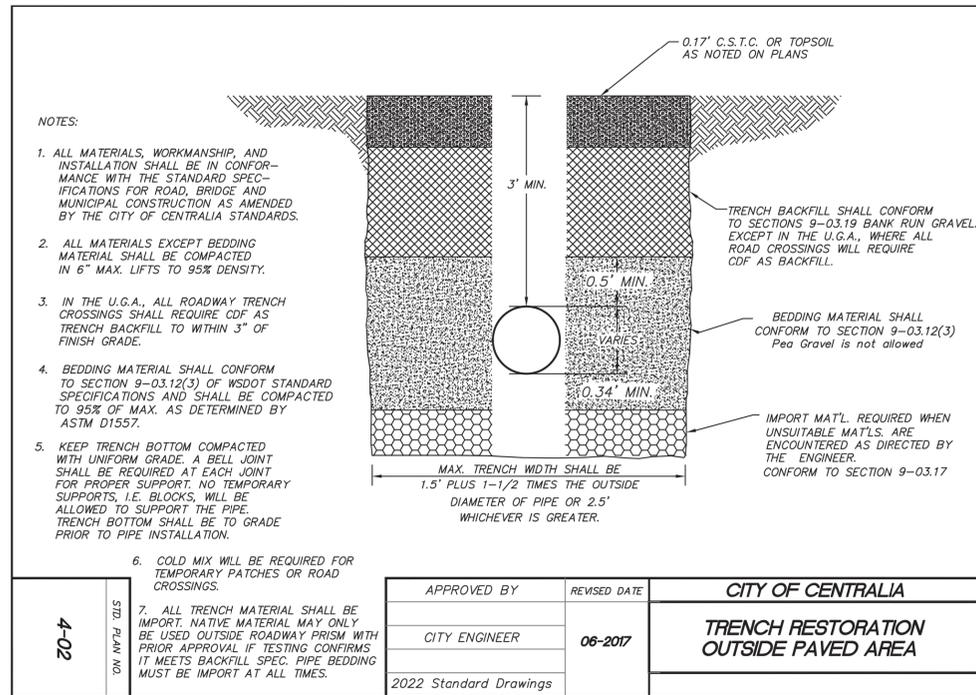


CIVIL DETAILS - I

SCALE NTS
JOB NO 2397004.00
DATE MAY 2025
SHEET 6 OF 15
C-003

NO	REVISION	DATE	BY
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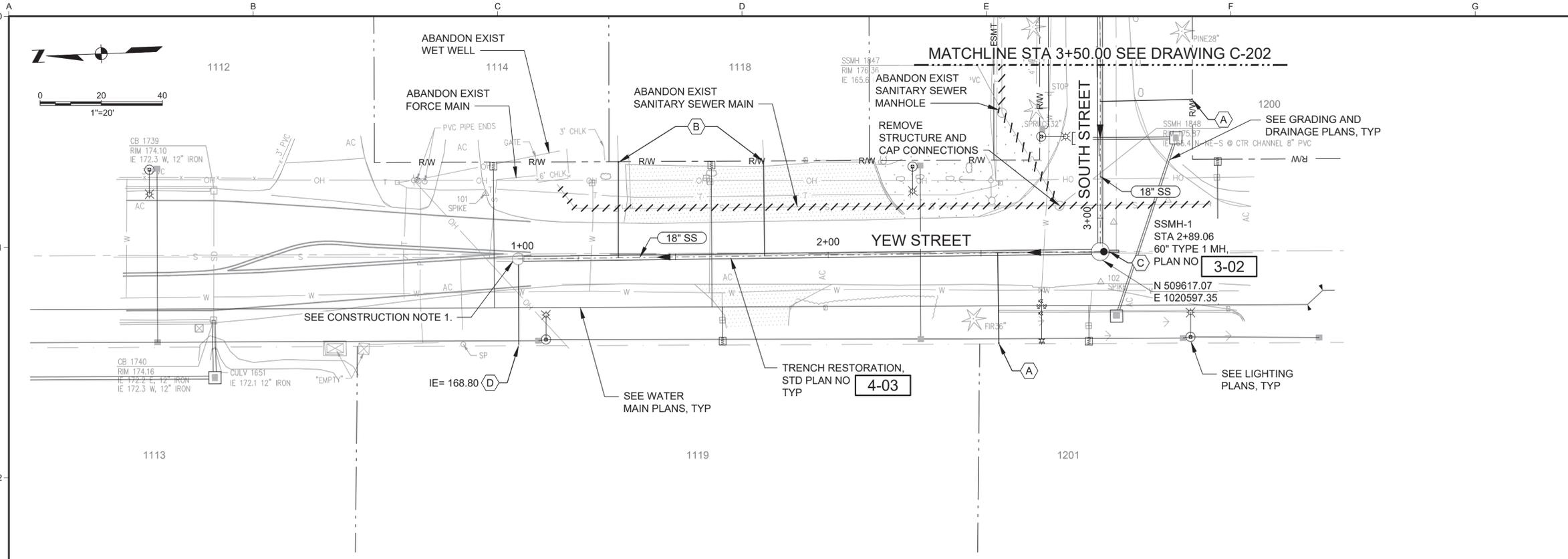


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							CHECKED NTW			Kennedy Jenks

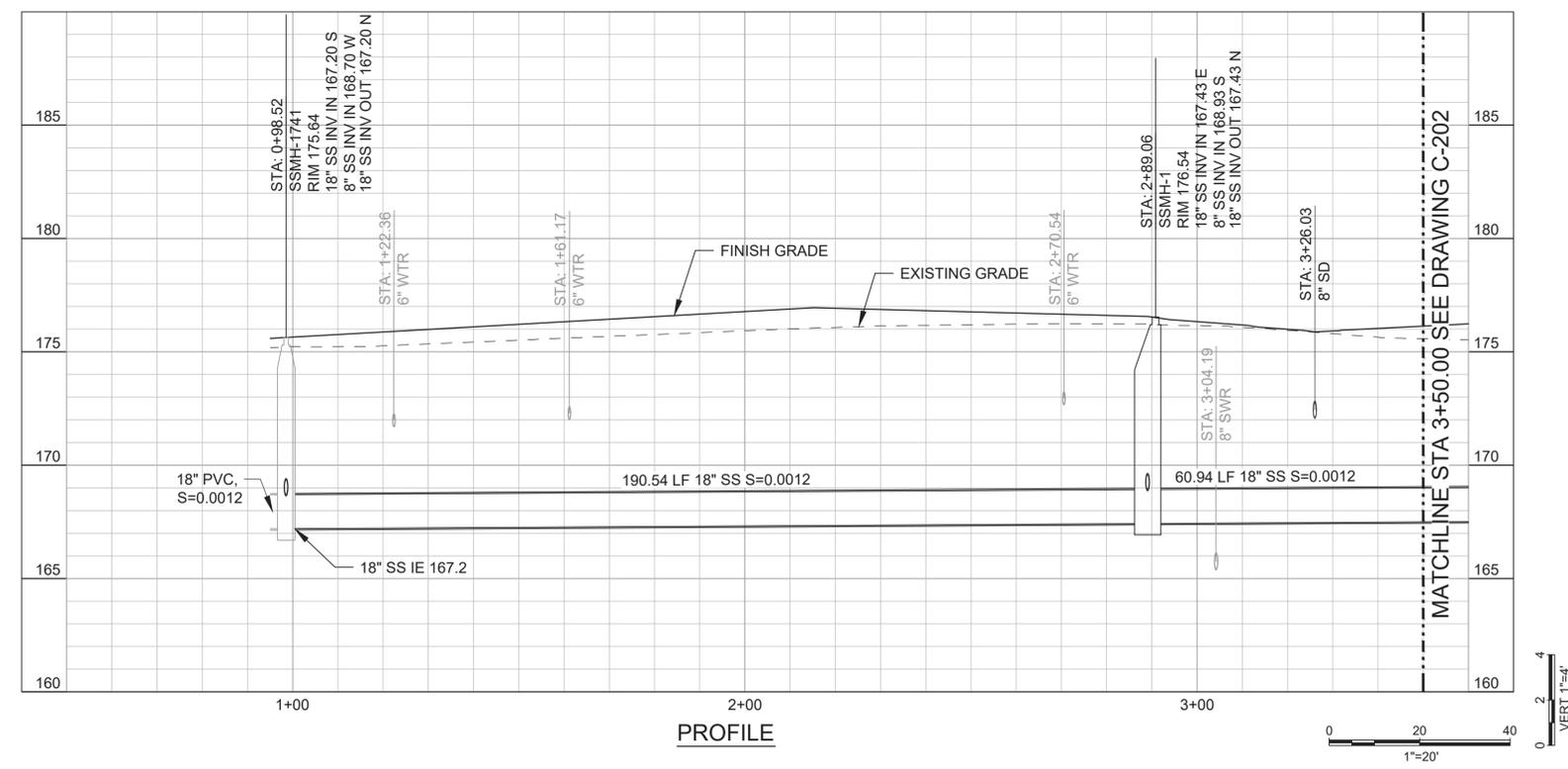
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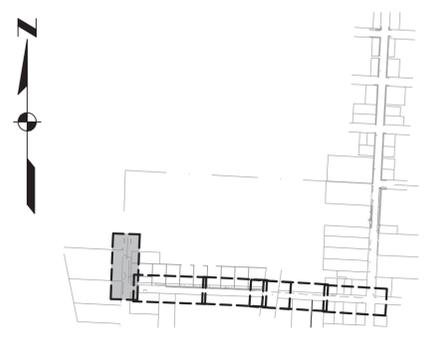


PLAN



PROFILE

LATERAL STATIONS				
STATION	LATERAL LENGTH (FT)	LEFT/RIGHT OF MAIN	CONNECTION TYPE	DEPTH AT R/W
1+30	31	L	RECONNECT	MATCH EXIST DEPTH
1+79	31	L	RECONNECT	MATCH EXIST DEPTH
2+55	30	R	NEW	6FT MIN
3+38	30	R	NEW	6FT MIN



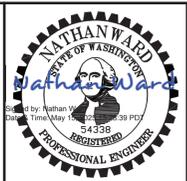
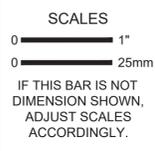
KEYMAP
SCALE: NTS

- GENERAL SHEET NOTES**
- EXISTING UTILITY LOCATIONS AND ELEVATIONS SHOWN ARE APPROXIMATE AND SHALL BE CONFIRMED PRIOR TO CONSTRUCTION.
 - CONTRACTOR SHALL COORDINATE STAGING AREAS WITH CITY AND PROPERTY OWNERS.
 - REFER TO PAVING PLANS FOR ROADWAY RESTORATION.
 - COORDINATE WITH PROPERTY OWNER AND THE CITY OF CENTRALIA TO VERIFY LOCATION OF ALL NEW LATERAL INSTALLATIONS PRIOR TO CONSTRUCTION. LATERAL SIZE AND DEPTH UNKNOWN.
 - ABANDON EXISTING SEWER MAIN AFTER ALL SERVICES ARE CONNECTED TO NEW MAIN.
 - SEE GRADING AND DRAINAGE PLANS FOR FINISH GRADE.
- CONSTRUCTION NOTES**
- CONNECT TO EXISTING MANHOLE WITH A KOR-N-SEAL OR A-LOK IN ACCORDANCE WITH CITY STANDARDS AND GUIDELINES. REGROUT CHANNEL INSIDE MANHOLE TO MAINTAIN 0.0012 FT/FT SLOPE ACROSS MANHOLE FROM EXISTING PIPE TO NEW PIPE. CONTRACTOR SHALL VERIFY EXISTING PIPE ELEVATION IN FIELD.
- SHEET KEYNOTES**
- A. NEW SANITARY SEWER LATERAL AND CLEANOUT AT PROPERTY LINE, STD PLAN NO. **3-01** TYP.
 - B. RECONNECT EXISTING SANITARY SEWER LATERAL STD PLAN NO. **3-01** TYP.
 - C. 8" PLUG, CAPPED FOR FUTURE CONNECTION.
 - D. 8" SANITARY SEWER MAIN CAPPED AT PROPERTY LINE.

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NO	REVISION	DATE	BY



DESIGNED: JM
 DRAWN: CEC
 CHECKED: NTW

CITY OF CENTRALIA
 CENTRALIA, WASHINGTON
 S. YEW STREET AND SOUTH STREET
 GRAVITY SEWER UPGRADE



PLAN AND PROFILE - GRAVITY LINE
 STA 1+00 TO STA 3+50

SCALE	1" = 20'
JOB NO	2397004.00
DATE	MAY 2025
SHEET	9 OF 15
	C-201

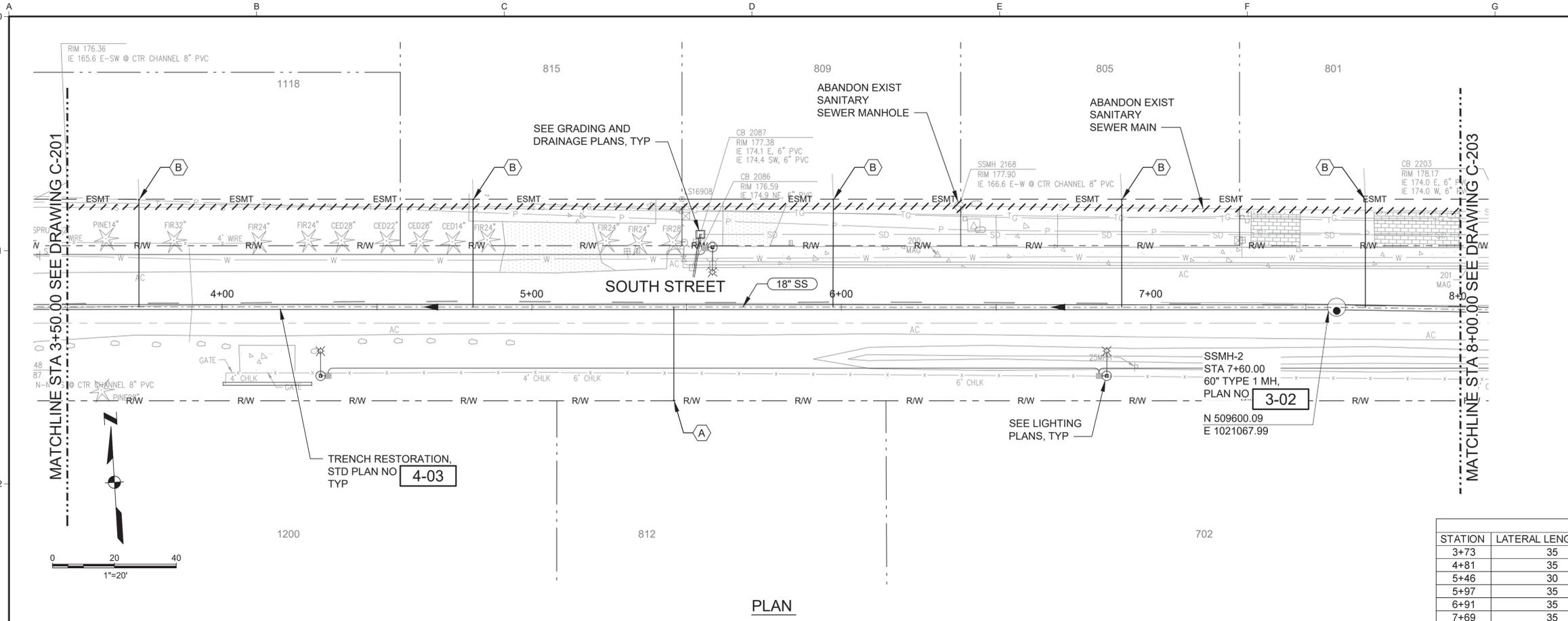
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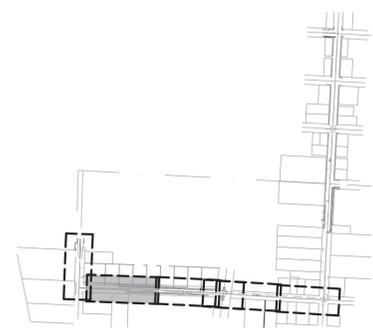
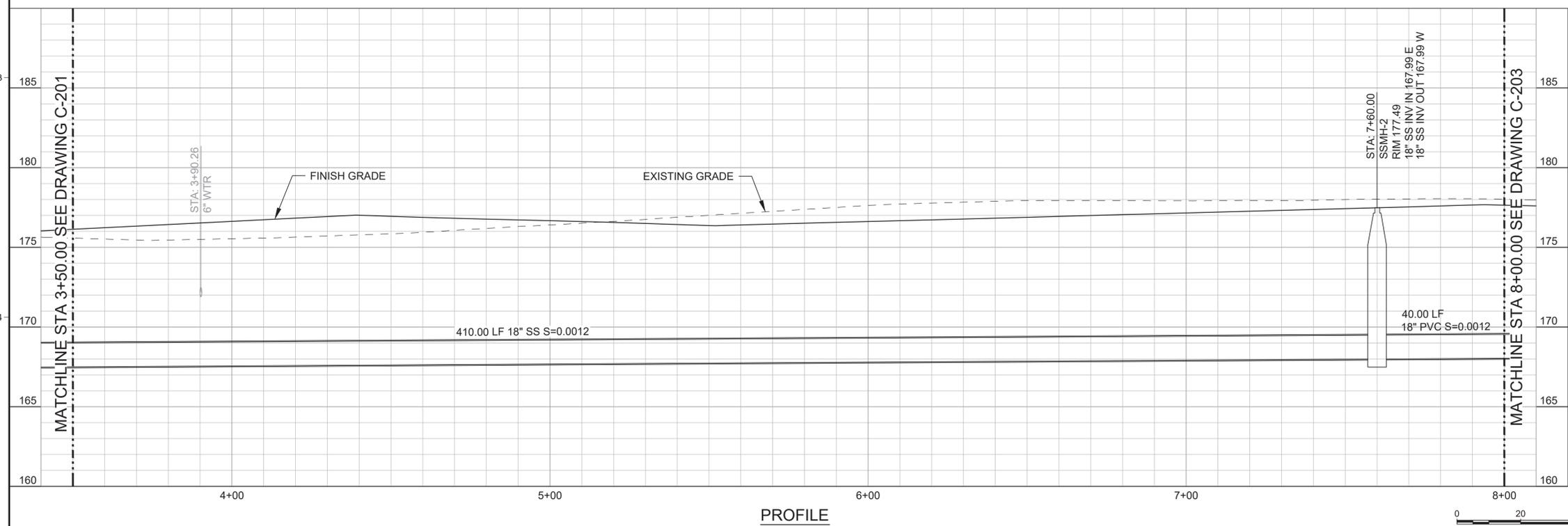
- GENERAL SHEET NOTES**
- EXISTING UTILITY LOCATIONS AND ELEVATIONS SHOWN ARE APPROXIMATE AND SHALL BE CONFIRMED PRIOR TO CONSTRUCTION.
 - CONTRACTOR SHALL COORDINATE STAGING AREAS WITH CITY AND PROPERTY OWNERS.
 - TRENCH RESTORATION PER CITY STANDARD DETAIL 4-02. REFER TO PAVING PLANS FOR ROADWAY RESTORATION.
 - COORDINATE WITH PROPERTY OWNER AND THE CITY OF CENTRALIA TO VERIFY LOCATION OF ALL NEW LATERAL INSTALLATIONS PRIOR TO CONSTRUCTION. LATERAL SIZE AND DEPTH UNKNOWN.
 - ABANDON EXISTING SEWER MAIN AFTER ALL SERVICES ARE CONNECTED TO NEW MAIN.
 - SEE GRADING AND DRAINAGE PLANS FOR FINISH GRADE.

- SHEET KEYNOTES**
- A. NEW SANITARY SEWER LATERAL AND CLEANOUT AT PROPERTY LINE, STD PLAN NO. **3-01** TYP.
 - B. RECONNECT EXISTING SANITARY SEWER LATERAL STD PLAN NO. **3-01** TYP.



LATERAL STATIONS

STATION	LATERAL LENGTH (FT)	LEFT/RIGHT OF MAIN	CONNECTION TYPE	DEPTH AT R/W
3+73	35	L	RECONNECT	MATCH EXIST DEPTH
4+81	35	L	RECONNECT	MATCH EXIST DEPTH
5+46	30	R	NEW	6FT MIN
5+97	35	L	RECONNECT	MATCH EXIST DEPTH
6+91	35	L	RECONNECT	MATCH EXIST DEPTH
7+69	35	L	RECONNECT	MATCH EXIST DEPTH



ISSUED FOR BID

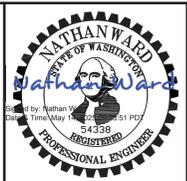
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NO	REVISION	DATE	BY

SCALES

0" = 1"
0" = 25mm

IF THIS BAR IS NOT DIMENSION SHOWN, ADJUST SCALES ACCORDINGLY.



DESIGNED: JM
DRAWN: CEC
CHECKED: NTW

CITY OF CENTRALIA
CENTRALIA, WASHINGTON

**S. YEW STREET AND SOUTH STREET
GRAVITY SEWER UPGRADE**

Kennedy Jenks

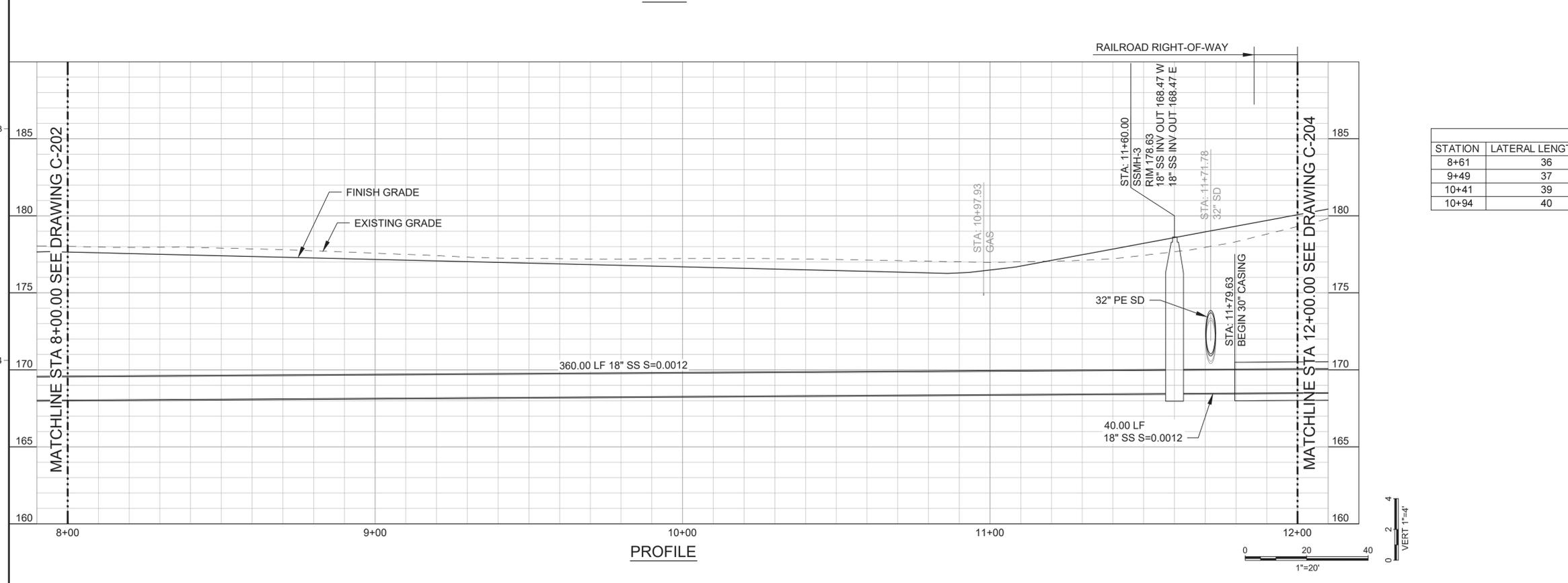
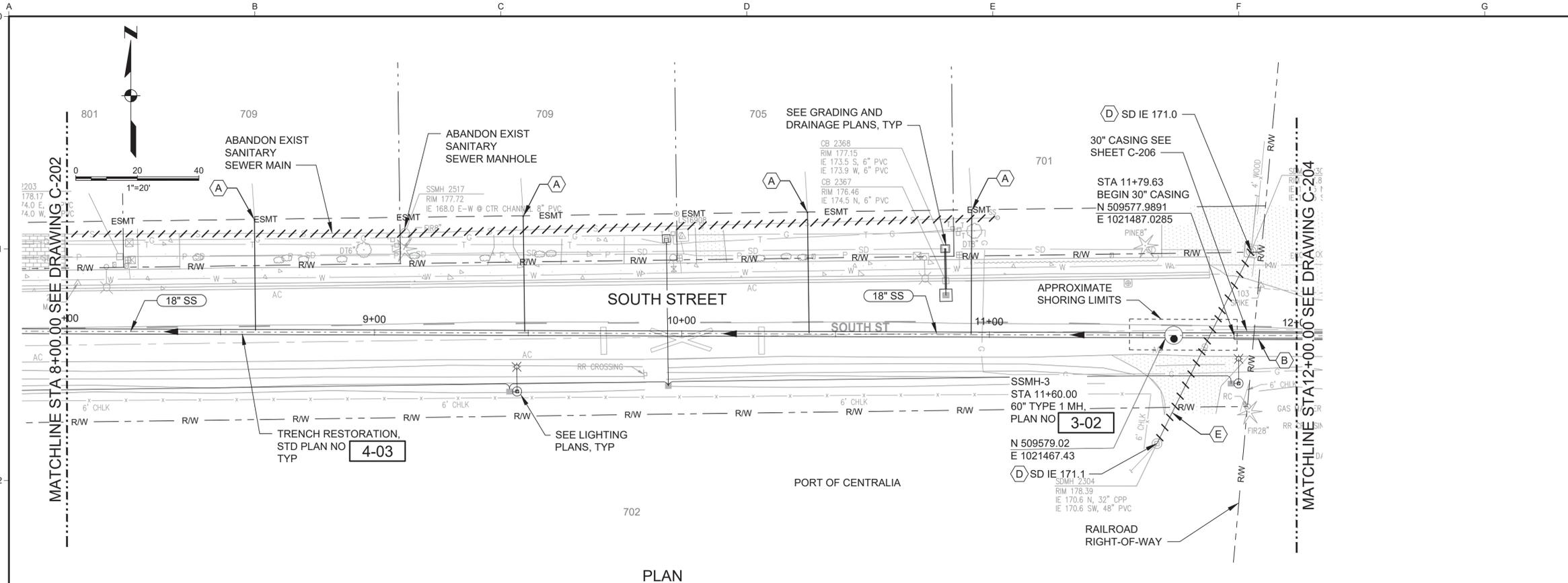
**PLAN AND PROFILE - GRAVITY LINE
STA 3+50 TO STA 8+00**

SCALE: 1" = 20'
JOB NO: 2397004.00
DATE: MAY 2025
SHEET: 10 OF 15
C-202

Plot Date: 5/8/2025 4:27 PM

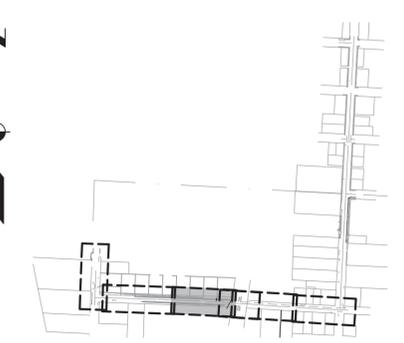
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- ### GENERAL SHEET NOTES
- EXISTING UTILITY LOCATIONS AND ELEVATIONS SHOWN ARE APPROXIMATE AND SHALL BE CONFIRMED PRIOR TO CONSTRUCTION.
 - CONTRACTOR SHALL COORDINATE STAGING AREAS WITH CITY AND PROPERTY OWNERS.
 - RESTORE PAVING, BASE MATERIAL, AND PAVEMENT MARKINGS TO ORIGINAL CONDITION AFTER CONSTRUCTION OF PIPELINES AND SITE IMPROVEMENTS ARE COMPLETE.
 - IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO TEMPORARILY RELOCATE AND/OR PROVIDE ADEQUATE PROTECTION TO SITE FEATURES WHICH MAY BE AFFECTED BY THE CONSTRUCTION.
 - COORDINATE WITH PROPERTY OWNER AND THE CITY OF CENTRALIA TO VERIFY LOCATION OF ALL NEW LATERAL INSTALLATIONS PRIOR TO CONSTRUCTION.
 - FOR UTILITY CROSSINGS WITH LESS THAN 12-INCHES CLEARANCE FROM SEWER PIPE, INSTALL UNDERGROUND UTILITY SUPPORT PER DETAIL **C-5411**.
 - SEE GRADING AND DRAINAGE PLANS FOR FINISH GRADE.
- ### SHEET KEYNOTES
- RECONNECT EXISTING SANITARY SEWER LATERAL STD PLAN NO **3-01** TYP.
 - PROVIDE BELL PROTECTION SYSTEM ON CARRIER PIPE FOR JOINTS WITHIN CASING. EBAA IRON, MEGA-STOP SERIES 5000, OR EQUAL.
 - CONTRACTOR SHALL VERIFY PIPE SIZE. REMOVE 32" PE STORM DRAIN BETWEEN EXISTING MANHOLES. AFTER INSTALLATION OF GRAVITY SEWER, REPLACE STORM DRAIN WITH 32" CORRUGATED WATERTIGHT PE, N12 BY ADVANCED DRAINAGE SYSTEMS OR APPROVED EQUAL.
 - CONNECT 32" PE STORM DRAIN MANHOLE. CHIP OUT SPACE FOR PIPE AT INVERT ELEVATION PER PLAN AND GROUT CONNECTION. STRUCTURE HYDROSTATIC TESTING PER WSDOT 7-04.1(1).
 - TRENCH RESTORATION, STD PLAN NO **4-03** INSIDE PAVED AREA AND PLAN NO **4-02** OUTSIDE PAVED AREA. SEE SURFACING PLAN.

LATERAL STATIONS				
STATION	LATERAL LENGTH (FT)	LEFT/RIGHT OF MAIN	CONNECTION TYPE	DEPTH AT R/W
8+61	36	L	RECONNECT	MATCH EXIST DEPTH
9+49	37	L	RECONNECT	MATCH EXIST DEPTH
10+41	39	L	RECONNECT	MATCH EXIST DEPTH
10+94	40	L	RECONNECT	MATCH EXIST DEPTH



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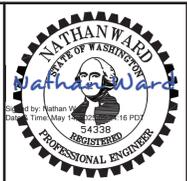
NO	REVISION	DATE	BY

SCALES

0" = 1"

0" = 25mm

IF THIS BAR IS NOT DIMENSION SHOWN, ADJUST SCALES ACCORDINGLY.



DESIGNED: JM

DRAWN: CEC

CHECKED: NTW

CITY OF CENTRALIA
CENTRALIA, WASHINGTON

**S. YEW STREET AND SOUTH STREET
GRAVITY SEWER UPGRADE**

SCALE: 1" = 20'

JOB NO: 2397004.00

DATE: MAY 2025

SHEET: 11 OF 15

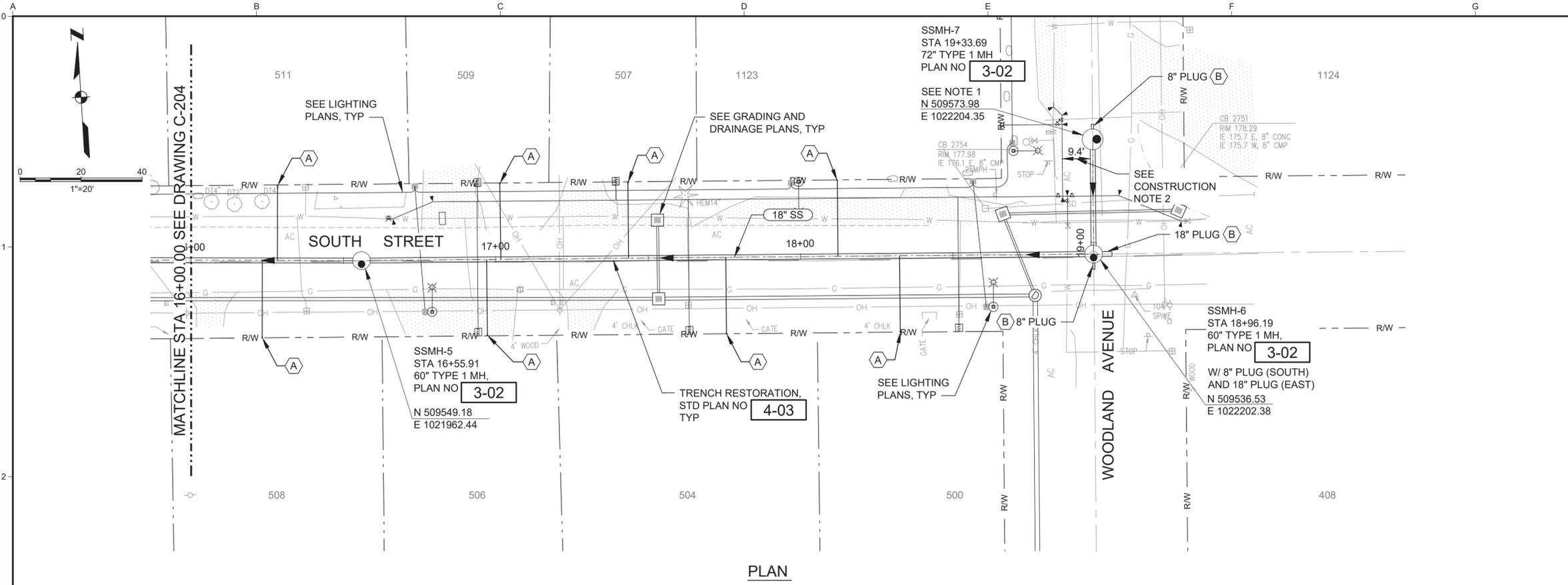
**PLAN AND PROFILE - GRAVITY LINE
STA 8+00 TO STA 12+00**

C-203

Plot Date: 5/8/2025 4:30 PM

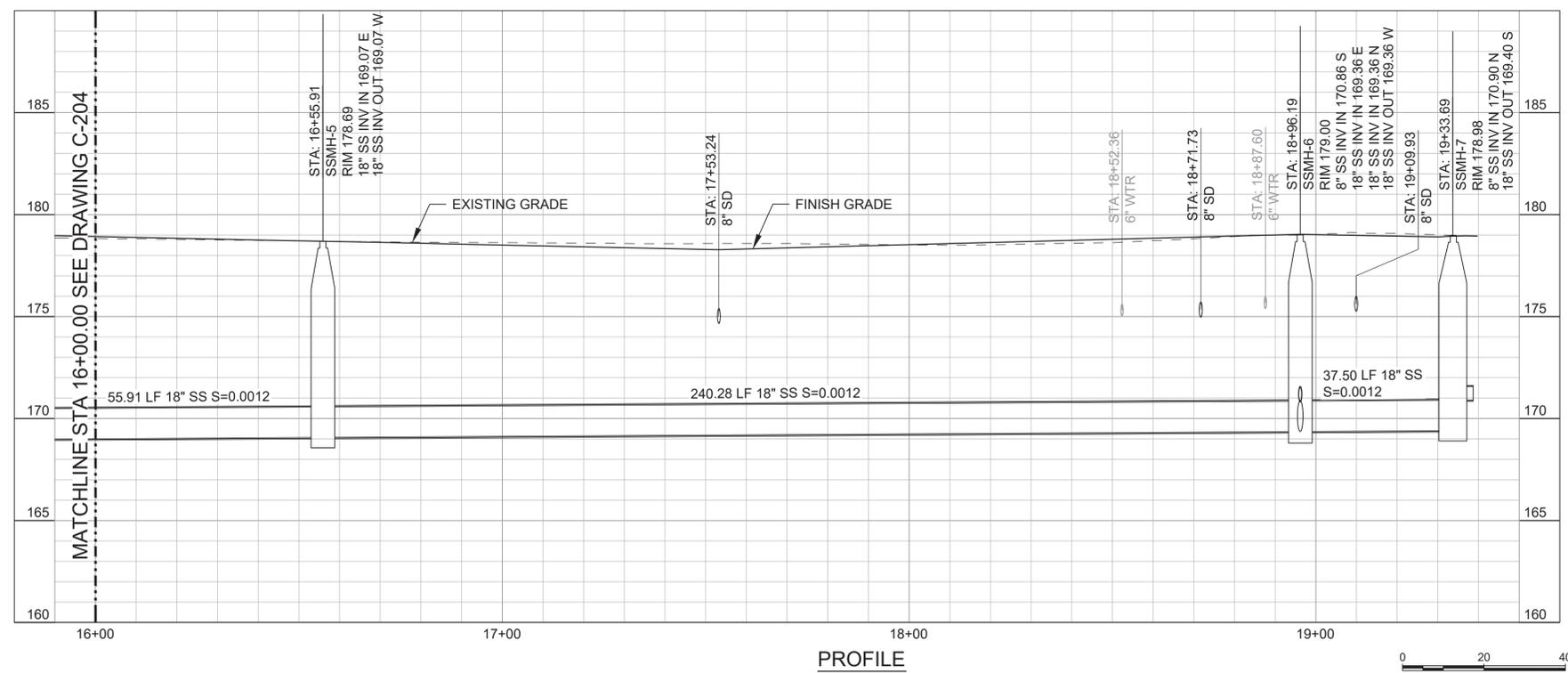
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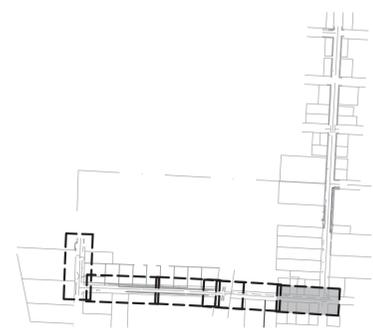
PLAN

- GENERAL SHEET NOTES**
- EXISTING UTILITY LOCATIONS AND ELEVATIONS SHOWN ARE APPROXIMATE AND SHALL BE CONFIRMED PRIOR TO CONSTRUCTION.
 - CONTRACTOR SHALL COORDINATE STAGING AREAS WITH CITY AND PROPERTY OWNERS.
 - RESTORE PAVING, BASE MATERIAL, AND PAVEMENT MARKINGS TO ORIGINAL CONDITION AFTER CONSTRUCTION OF PIPELINES AND SITE IMPROVEMENTS ARE COMPLETE.
 - COORDINATE WITH PROPERTY OWNER AND THE CITY OF CENTRALIA TO VERIFY LOCATION OF ALL NEW LATERAL INSTALLATIONS PRIOR TO CONSTRUCTION. LATERAL SIZE AND DEPTH UNKNOWN.
 - SEE GRADING AND DRAINAGE PLANS FOR FINISH GRADE.
- CONSTRUCTION NOTES**
- SSMH-6 AND SSMH-7 SHALL CONTAIN ANTIMICROBIAL ADDITIVES IN THE CONCRETE AND SHALL BE COATED WITH RAVENS 405 PER SPECIAL PROVISIONS.
 - MAINTAIN 10-FOOT HORIZONTAL SEPARATION BETWEEN SEWER AND WATER MAINS. ADJUST ALIGNMENTS IN FIELD IF NECESSARY. ENGINEER TO APPROVE ANY CHANGES IN ALIGNMENT.
- SHEET KEYNOTES**
- A. NEW SANITARY SEWER LATERAL AND CLEANOUT AT PROPERTY LINE, STD PLAN NO. 3-01 TYP.
 - B. CAP FOR FUTURE CONNECTION.



PROFILE

LATERAL STATIONS				
STATION	LATERAL LENGTH (FT)	LEFT/RIGHT OF MAIN	CONNECTION TYPE	DEPTH AT R/W
16+23	25	R	NEW	6FT MIN
16+28	25	L	NEW	6FT MIN
17+01	25	L	NEW	6FT MIN
16+97	25	R	NEW	6FT MIN
17+44	25	L	NEW	6FT MIN
17+75	25	R	NEW	6FT MIN
18+12	25	L	NEW	6FT MIN
18+32	25	R	NEW	6FT MIN

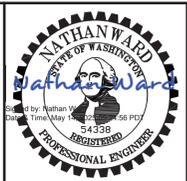
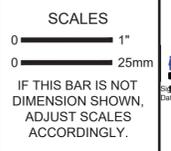


KEYMAP
SCALE: NTS

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NO	REVISION	DATE	BY



DESIGNED: JM
 DRAWN: CEC
 CHECKED: NTW

CITY OF CENTRALIA
 CENTRALIA, WASHINGTON
**S. YEW STREET AND SOUTH STREET
 GRAVITY SEWER UPGRADE**

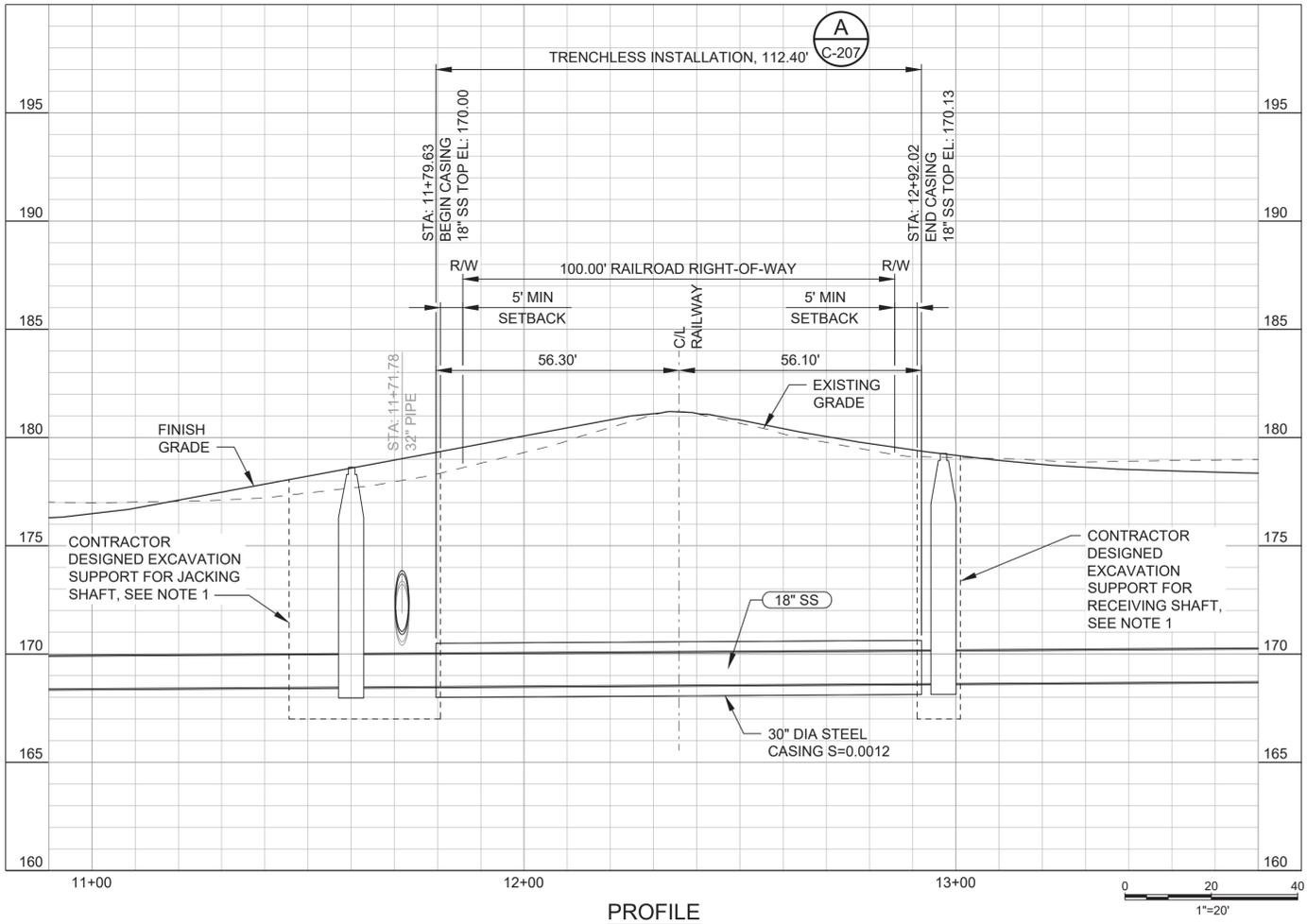
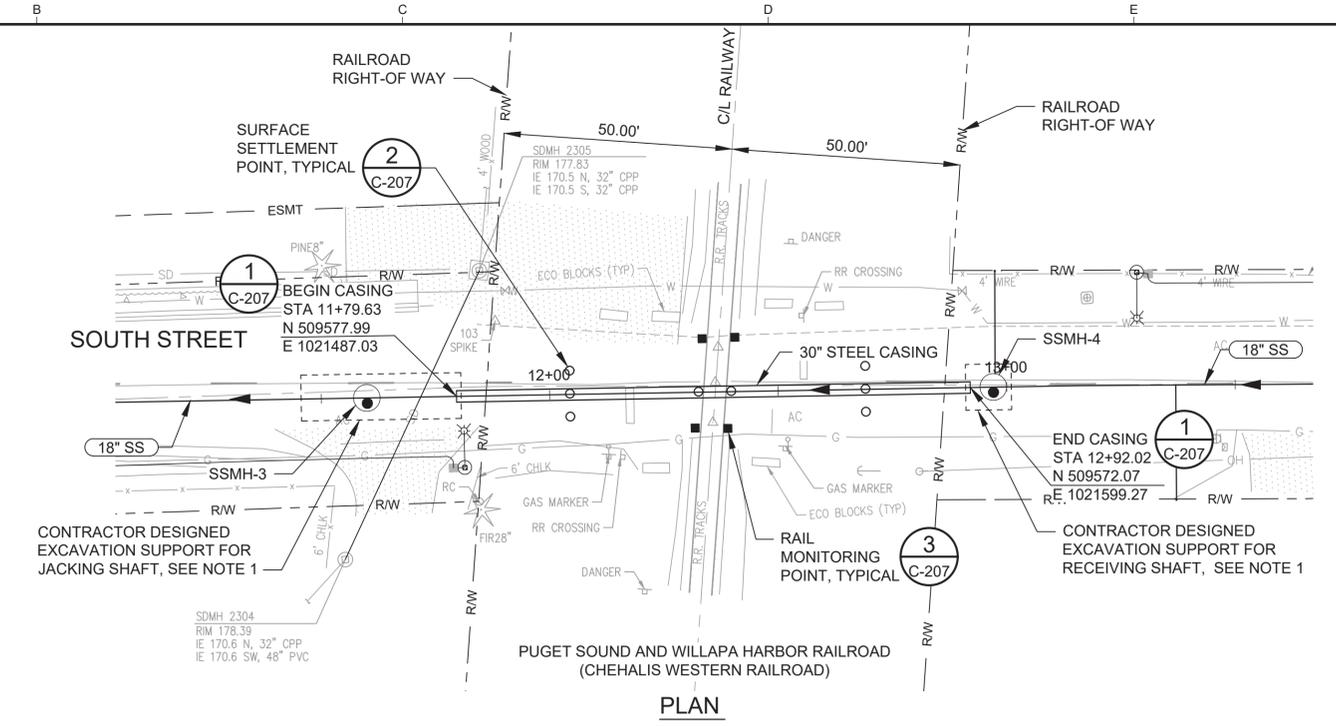
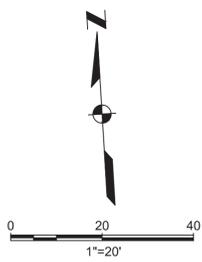
PLAN AND PROFILE - GRAVITY LINE
 STA 16+00 TO END

SCALE: 1" = 20'
 JOB NO: 2397004.00
 DATE: MAY 2025
 SHEET: 13 OF 15
C-205

Plot Date: 5/8/2025 4:32 PM

User: CHAD CADIENTE

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- ### GENERAL SHEET NOTES
1. SHAFT LOCATION AND SIZE IS APPROXIMATE AND IS SHOWN FOR REFERENCE PURPOSES ONLY. CONTRACTOR TO DETERMINE DIMENSIONS OF SHAFTS WHILE REMAINING WITH PUBLIC RIGHT-OF-WAY AND MAINTAINING REQUIRED SETBACKS FROM RAILROAD RIGHT-OF-WAY SHOWN.
 2. EXCAVATION SUPPORT FOR JACKING/RECEIVING SHAFT PER CONTRACTOR, REFER TO SPECIFICATIONS FOR REQUIREMENTS.
 3. EXISTING UTILITY LOCATIONS AND ELEVATIONS SHOWN ARE APPROXIMATE AND SHALL BE CONFIRMED PRIOR TO CONSTRUCTION.
 4. SEE DRAWING C-101, C-203 AND C-204 FOR PIPELINE PLAN AND PROFILE.
- ### MONITORING POINT LEGEND
- SURFACE SETTLEMENT POINT
 - RAIL MONITORING POINT

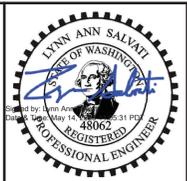
- ### INSTRUMENTATION NOTES
1. LOCATIONS OF ALL INSTRUMENTS INDICATED ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE POSITIONS OF ALL EXISTING UTILITIES AND FOUNDATIONS AND RELOCATE ANY INSTRUMENTS THAT ARE IN CONFLICT WITH INDICATED LOCATIONS, UPON AGREEMENT OF THE ENGINEER.
 2. CONTRACTOR TO ARRANGE MEETING WITH OWNER AND ENGINEER NO LESS THAN 10 WORKING DAYS BEFORE PLANNED INSTALLATION OF INSTRUMENTS WITHIN RAILROAD RIGHT-OF-WAY. RAILROAD REPRESENTATIVE TO ATTEND MEETING, IF REQUIRED BY RIGHT OF ENTRY AGREEMENT.
 3. MEASURES SHALL BE TAKEN TO PROTECT ALL MONITORING INSTRUMENTS AND DEVICES.
 4. PERFORM ALL SURVEYING ACTIVITIES UNDER THE DIRECT SUPERVISION OF A LICENSED PROFESSIONAL LAND SURVEYOR REGISTERED IN THE STATE OF WASHINGTON AND EXPERIENCED IN SIMILAR WORK.
 5. SURVEY POINTS SHALL HAVE ACCURACY OF 0.01 FOOT OR BETTER. INSTRUMENTATION SHALL BE MEASURED RELATIVE TO SURVEY BENCHMARKS WHICH SHALL BE LOCATED MORE THAN 100 FEET AWAY FROM CONSTRUCTION.
 6. SURFACE SETTLEMENT POINTS SHALL CONSIST OF PK NAIL AND WASHER OR AS INDICATED BY RAILROAD. PROVIDE READINGS IN THE Z DIRECTION (VERTICAL).
 7. RAIL MONITORING POINTS SHALL CONSIST OF AN REFLECTIVE TARGET MOUNTED TO THE RAIL OR RAIL TIE OR AS INDICATED BY RAILROAD. PROVIDE READINGS IN 3 DIMENSIONS (X, Y, Z) FOR RAIL MONITORING POINTS.
 8. BASELINE READINGS: PROVIDE THREE (3) SEPARATE AND COMPLETE SETS OF READINGS ON EACH INSTRUMENT AT LEAST ONE (1) DAY APART AT LEAST ONE WEEK BEFORE TRENCHLESS CASING AND CARRIER PIPE INSTALLATION COMMENCES.
 9. DAILY READINGS: READINGS PERFORMED EACH DAY DURING TRENCHLESS CASING AND CARRIER PIPE INSTALLATION.
 10. WEEKLY READINGS: PROVIDE READINGS ON AVERAGE EVERY 7 DAYS WITH AT LEAST 6 AND NO MORE THAN 8 DAYS BETWEEN SUCCESSIVE READINGS FOR TWO WEEKS AFTER THE COMPLETION OF TRENCHLESS CASING AND CARRIER PIPE INSTALLATION.
 11. ALL MONITORING DATA SHALL BE TRANSMITTED TO THE ENGINEER WITHIN 24 HOURS. PROVIDE PLAN SHOWING INSTRUMENTATION TYPES AND LOCATIONS. PROVIDE PLOTS SHOWING MONITORING DATA OVER TIME, DIRECTIONS OF MOVEMENT, AND THE DATE AND TIME READINGS WERE TAKEN.
 12. TRIGGER LEVEL FOR SURFACE SETTLEMENT POINTS AND RAIL MONITORING POINTS IS DEFINED AS 0.25 INCHES IN THE VERTICAL DIRECTION (HEAVE OR SETTLEMENT), OR AS REQUIRED BY RAILROAD.
 13. MAXIMUM LEVEL FOR SURFACE SETTLEMENT POINTS AND RAIL MONITORING POINTS IS DEFINED AS 0.50 INCHES IN THE VERTICAL DIRECTION (HEAVE OR SETTLEMENT), OR AS REQUIRED BY RAILROAD.
 14. UPON EXCEEDING THE TRIGGER LEVEL: VERIFY MEASUREMENT AND NOTIFY THE ENGINEER. DOUBLE THE FREQUENCY OF FUTURE READINGS. IMPLEMENT PROCEDURES TO LIMIT FURTHER MOVEMENTS.
 15. UPON EXCEEDING THE MAXIMUM LEVEL: VERIFY MEASUREMENT AND NOTIFY THE ENGINEER. IF MULTIPLE MEASUREMENTS EXCEED THE MAXIMUM LEVEL, STOP WORK AND HOLD A MEETING WITH THE ENGINEER, OWNER, AND GENERAL CONTRACTOR TO DISCUSS THE MONITORING DATA AND A CORRECTIVE ACTION PLAN TO LIMIT FURTHER MOVEMENTS. IF WORK IS SUSPENDED, OBTAIN APPROVAL FROM THE ENGINEER PRIOR TO RESTARTING EXCAVATION.



ISSUED FOR BID

ANY PRINTS NOT BEARING THIS STAMP MAY HAVE BEEN PRINTED PRIOR TO ADVERTISING AND CANNOT BE CONSIDERED AS BID DOCUMENTS. USERS OF THIS DOCUMENT IN EDITABLE ELECTRONIC FORMATS ARE CAUTIONED AGAINST USE WITHOUT FIRST DETERMINING WHETHER CHANGES MAY HAVE BEEN MADE SUBSEQUENT TO ITS PREPARATION.

NO	REVISION	DATE	BY



DESIGNED: CMB
 DRAWN: CEC
 CHECKED: LAS

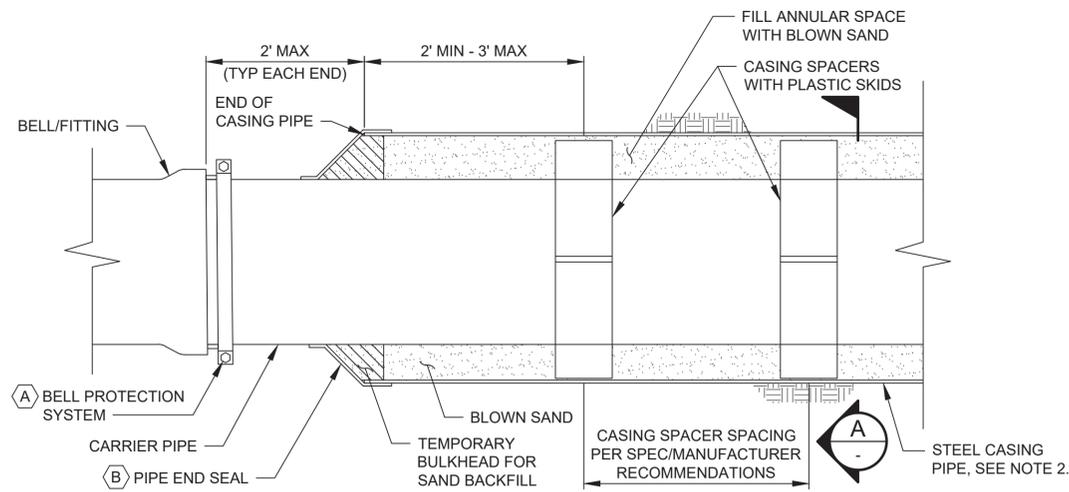
CITY OF CENTRALIA
 CENTRALIA, WASHINGTON
**S. YEW STREET AND SOUTH STREET
 GRAVITY SEWER UPGRADE**

Kennedy Jenks

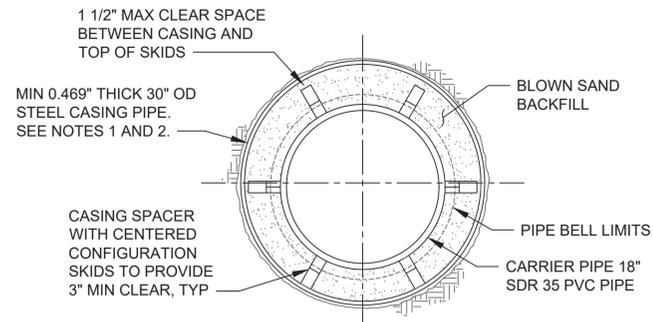
**TRENCHLESS CROSSING
 AND MONITORING PLAN**

SCALE: 1" = 20'
 JOB NO: 2397004.00
 DATE: MAY 2025
 SHEET: 14 OF 15
C-206

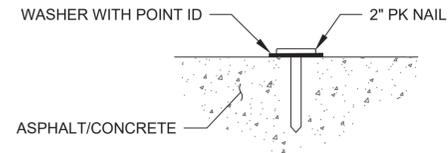
p:\kjc-pw\Documents\Clients\Centralia, City of WAP\Projects\Jefferson, LS & FM Upgrade Preliminary Design_2397004.00\10-Design\10-06-Drawings\1-Gravity\Civil\2397004.00-1-C-207



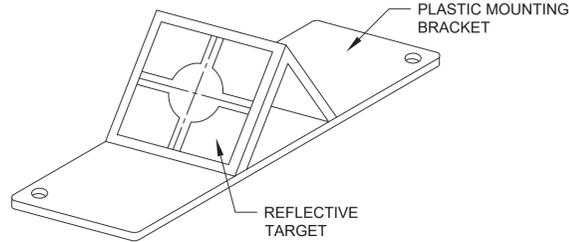
1 STEEL CASING END
C-206 SCALE: NTS



A STEEL CASING AND CARRIER PIPE SECTION
C-206 SCALE: NTS



2 TYPICAL SURFACE SETTLEMENT POINT
C-206 SCALE: NTS



3 TYPICAL RAIL MONITORING POINT
C-206 SCALE: NTS

GENERAL SHEET NOTES

1. STEEL CASING THICKNESS HAS BEEN SIZED FOR ANTICIPATED EARTH PRESSURES AND TO MEET RAILROAD MINIMUM REQUIREMENTS. CONTRACTOR IS RESPONSIBLE FOR INCREASING THICKNESS AS NECESSARY TO HANDLE INSTALLATION LOADS BASED ON SELECTED MEANS AND METHODS.
2. SEE SPECIFICATION 33 05 23.16 FOR STEEL CASING REQUIREMENTS.
3. SEE SPECIFICATION 33 05 23.16 FOR STEEL CASING INSTALLATION USING TRENCHLESS CONSTRUCTION METHODS.
4. ANNULUS BETWEEN STEEL CASING AND CARRIER PIPE SHALL BE COMPLETELY FILLED WITH BLOWN-IN SAND, SEE TRENCHLESS CONSTRUCTION SPECIFICATION 33 05 23.16.
5. COMPLETE HYDROSTATIC TESTING PRIOR TO FILLING ANNULAR SPACE.

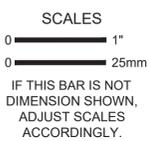
SHEET KEYNOTES

- A. PROVIDE BELL PROTECTION SYSTEM ON CARRIER PIPE FOR JOINTS WITHIN CASING. EBAA IRON, MEGA-STOP SERIES 5000, OR EQUAL.
- B. PIPE END SEAL AND TEMPORARY BULKHEAD SHOWN SCHEMATICALLY, SEE TRENCHLESS CONSTRUCTION SPECIFICATION.

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DESIGNED	CMB
DRAWN	CEC
CHECKED	LAS

CITY OF CENTRALIA
CENTRALIA, WASHINGTON
S. YEW STREET AND SOUTH STREET
GRAVITY SEWER UPGRADE



**TRENCHLESS CROSSING
NOTES AND DETAILS**

SCALE	NTS
JOB NO	2397004.00
DATE	MAY 2025
SHEET	15 OF 15
	C-207

GENERAL CONSTRUCTION NOTES:

1. ALL GOVERNMENT SAFETY REGULATIONS SHALL BE STRICTLY ADHERED TO, INCLUDING OSHA.
2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DULY NOTIFY THE CITY OF CENTRALIA IN ADVANCE OF THE COMMENCEMENT OF ANY AUTHORIZED WORK AND TO SCHEDULE REQUIRED INSPECTIONS. ANY REQUIRED INSPECTION TEST WILL BE PERFORMED AT THE CONTRACTOR'S EXPENSE.
3. THE APPROVAL OF THESE PLANS BY THE CITY OF CENTRALIA DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO COMPLY WITH THE REQUIREMENTS OF OTHER GOVERNING AGENCIES.
4. THE CONTRACTOR IS CAUTIONED THAT THE LOCATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON A PROJECT SURVEY. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR SHALL CALL FOR UTILITY LOCATES 48 HOURS PRIOR TO PLANNED EXCAVATIONS.
5. THE DESIGN SHOWN IS BASED UPON THE ENGINEER'S UNDERSTANDING OF THE EXISTING CONDITIONS. THE EXISTING CONDITIONS SHOWN ON THIS PLAN SET ARE BASED ON COMPILED SURVEY DATA. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING FIELD CONDITIONS PRIOR TO BIDDING THE PROPOSED WORK IMPROVEMENTS. IF CONFLICTS ARE DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE CITY OF CENTRALIA.
6. EXISTING UTILITIES ARE SHOWN FOR REFERENCE ONLY. THE CONTRACTOR SHALL VERIFY EXACT LOCATION OF EXISTING FACILITIES AND REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO INSTALLATION OF PROPOSED UTILITIES.
7. PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL OBTAIN ALL NECESSARY LOCAL, STATE, AND FEDERAL APPROVALS AND PERMITS.
8. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE A COPY OF THE APPROVED PLANS, SPECIFICATIONS, AND CONTRACT DOCUMENTS AT THE CONSTRUCTION SITE AT ALL TIMES.
9. CONSTRUCTION SIGNAGE AND TRAFFIC CONTROL SHALL BE PER THE CURRENT COPY OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). THE CONTRACTOR SHALL PREPARE AND SUBMIT A TRAFFIC CONTROL PLAN TO THE LEWIS COUNTY AND OBTAIN APPROVAL PRIOR TO BEGINNING CONSTRUCTION ACTIVITIES.
10. ALL VEHICLES AND EQUIPMENT SHALL BE KEPT WITHIN THE WORK AREAS ESTABLISHED FOR THAT WORK SHIFT UNLESS TRAVELLING TO AND FROM THE SITE. UNDER NO CIRCUMSTANCES SHALL VEHICLES BE PARKED OR EQUIPMENT BE STORED OUTSIDE OF THESE AREAS.
11. OTHER CONSTRUCTION PROJECTS MAY OCCUR NEAR THE PROJECT SITE AND MAY BE IN PROGRESS CONCURRENT WITH THE PROJECT. THE CONTRACTOR SHALL COOPERATE, AS NECESSARY, AND NOT INTERFERE OR HINDER THE PROGRESS OR COMPLETION OF WORK BEING PERFORMED BY OTHER CONTRACTORS.
12. THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL LABOR AND EQUIPMENT NECESSARY TO COMPLETE THE WORK SHOWN ON THESE DRAWINGS AND OBTAIN ACCEPTANCE FROM THE CITY OF CENTRALIA. THE CITY SHALL FURNISH ALL MATERIAL FOR THIS WORK.
13. ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO THEIR "PRE CONSTRUCTION" STATE OR BETTER.
14. DRIVEWAY ACCESS AND UTILITY SERVICE TO EXISTING HOMES AND BUSINESSES SHALL BE MAINTAINED AT ALL TIMES.
15. THE CONTRACTOR SHALL ASSUME THAT A PORTION OF THE SOILS WILL NOT PROVIDE SUFFICIENT STABILITY TO STAND UP TO VERTICAL TRENCH WALLS. THIS WILL RESULT IN WIDER TRENCHES, GREATER EARTHWORK VOLUMES, AND MORE SURFACE DISTURBANCE. THE CONTRACTOR SHALL ASSUME THAT A PORTION OF THE NATIVE SOILS WILL INCLUDE BOULDERS/COBBLES WHICH ARE GREATER THAN 24 INCHES IN DIAMETER WHICH WILL SLOW DOWN THE CONTRACTOR'S PROGRESS. THIS WILL RESULT IN WIDER TRENCHES, GREATER EARTHWORK VOLUMES, AND MORE SURFACE DISTURBANCE.
16. THE REMOVAL, LOADING, AND HAULING OF EXCESS MATERIALS AS A RESULT OF TRENCHING AND EXCAVATION ACTIVITIES SHALL BE DISPOSED OF AT A CONTRACTOR-PROVIDED WASTE SITE AT NO ADDITIONAL COST TO THE CITY.

TRAFFIC CONTROL NOTE:

THE CONTRACTOR SHALL PROVIDE ALL FLAGGERS, SIGNS, AND OTHER TRAFFIC CONTROL DEVICES AS NECESSARY TO COMPLETE THE WORK. THE CONTRACTOR SHALL ERECT AND MAINTAIN ALL CONSTRUCTION SIGNS, WARNING SIGNS, DETOUR SIGNS, AND OTHER TRAFFIC CONTROL DEVICES NECESSARY TO WARN AND PROTECT THE PUBLIC AT ALL TIMES FROM INJURY OR DAMAGE AS A RESULT OF THE CONTRACTOR'S OPERATIONS THAT MAY OCCUR IN HIGHWAYS, ROADS, OR STREETS. NO WORK SHALL BE DONE ON OR ADJACENT TO THE ROADWAY UNTIL ALL NECESSARY SIGNS AND TRAFFIC CONTROL DEVICES ARE IN PLACE. THE CONTRACTOR SHALL NOT CLOSE DOWN THROUGH TRAFFIC ON CITY/COUNTY STREETS. ACCESS FOR BOTH VEHICULAR AND PEDESTRIAN TRAFFIC SHALL BE MAINTAINED AT ALL TIMES, EXCEPT WHERE THE CONTRACTOR OBTAINS PERMISSION TO TEMPORARILY CLOSE A SIDEWALK. THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN TO THE CITY OF CENTRALIA FOR REVIEW AND APPROVAL PRIOR TO STARTING ANY WORK IN THE RIGHT-OF-WAY.

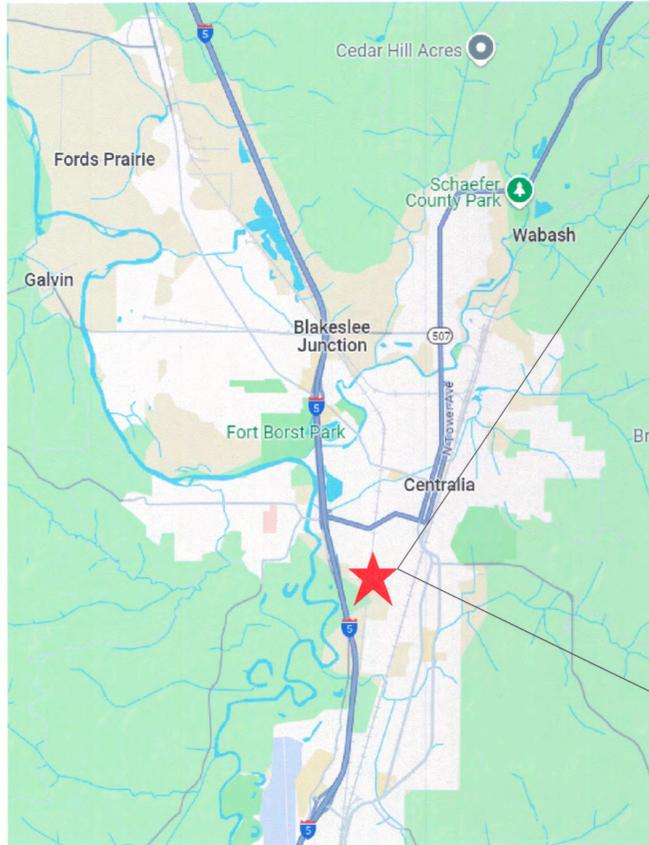
CALL BEFORE YOU DIG:

THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION BY CALLING THE UNDERGROUND LOCATE LINE AT 811 OR (800) 424-5555 A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATION.

South Street Improvements

S Yew/South St/Woodland

VICINITY MAP:



TRENCHING:

ALL TRENCH, BACKFILL, AND SITE RESTORATION WORK REQUIRED TO CONSTRUCT THIS PROJECT SHALL BE THE RESPONSIBILITY OF THE CUSTOMER.

UTILITY EASEMENT NOTE:

THE GRANTOR HEREBY CONVEYS AND GRANTS TO THE GRANTEE (CITY OF CENTRALIA) THE RIGHT, PRIVILEGE AND AUTHORITY TO INSTALL, CONSTRUCT, ERECT, ALTER, REPAIR, ENERGIZE, OPERATE AND MAINTAIN UNDERGROUND ELECTRIC DISTRIBUTION FACILITIES AT DEPTHS NOT EXCEEDING 15 FEET, WHICH CONSIST OF VAULTS, MANHOLES, HANDHOLES, DUCTS, CONDUITS, CABLES, WIRES AND OTHER NECESSARY OR CONVENIENT APPURTENANCES; ALSO THE RIGHT, PRIVILEGE AND AUTHORITY TO THE GRANTEE, ITS SUCCESSORS AND ASSIGNS, TO INSTALL, CONSTRUCT, ERECT, ALTER, REPAIR, ENERGIZE, OPERATE AND MAINTAIN AT THE GROUND LEVEL, ELECTRIC TRANSFORMER UNITS AND ELECTRIC JUNCTION CABINETS AND/OR CONTAINERS, ELECTRIC SWITCH CABINETS, TOGETHER WITH SUCH APPURTENANCES NECESSARY TO MAKE SAID UNDERGROUND AND SURFACE INSTALLATIONS AN INTEGRATED ELECTRIC SYSTEM.

TOGETHER WITH THE RIGHT AT ALL TIMES TO THE GRANTEE OF INGRESS TO AND EGRESS FROM SAID LANDS ACROSS ADJACENT LANDS OF THE GRANTOR FOR THE PURPOSE OF INSTALLING, CONSTRUCTING, ALTERING, REPAIRING, ENERGIZING, OPERATING AND MAINTAINING SAID ELECTRIC SYSTEM, AND THE RIGHT AT ANY TIME TO REMOVE ALL OR ANY PART OF SAID ELECTRIC SYSTEM FROM SAID LANDS.

ALSO THE RIGHT TO THE GRANTEE AT ALL TIMES TO CUT AND TRIM BRUSH, TREES OR OTHER PLANTS STANDING OR GROWING UPON SAID LANDS WHICH, IN THE OPINION OF THE GRANTEE, INTERFERE WITH THE MAINTENANCE OR OPERATION OF THE SYSTEM, OR CONSTITUTE A MENACE OR DANGER TO SAID ELECTRIC SYSTEM.

THE GRANTOR HEIRS, EXECUTORS, ADMINISTRATORS, SUCCESSORS AND ASSIGNS, HEREBY COVENANT AND AGREE THAT NO STRUCTURE OR FIRE HAZARDS WILL BE ERECTED OR PERMITTED WITHIN THE ABOVE DESCRIBED EASEMENT AREA WITHOUT PRIOR WRITTEN APPROVAL FROM THE GRANTEE, ITS SUCCESSORS OR ASSIGNS; THAT NO DIGGING WILL BE DONE OR PERMITTED WITHIN THE EASEMENT AREA WHICH WILL IN ANY MANNER DISTURB THE FACILITIES OR THEIR SOLIDITY OR UNEARTH ANY PORTION THEREOF; AND THAT NO BLASTING OR DISCHARGE OF ANY EXPLOSIVES WILL BE PERMITTED WITHIN FIFTY (50) FEET OF SAID LINES AND APPURTENANCES.

SHEET INDEX	
SHEET	SHEET TITLE
E1001	COVER
E1002A	PROJECT OVERVIEW WEST OF RAILROAD
E1002B	PROJECT OVERVIEW EAST OF RAILROAD
E1003	CABLE DIAGRAM
E1004	CONDUIT DIAGRAM
E1005	DESIGN TABLES
E1006	DETAILED DRAWINGS



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
Willie L. Wright, Jr.

REV	BY	DATE
1		
2		
3		

DESIGN:	DATE:
A. STAHL	5/16/2025
DRAFT:	
REVIEW:	
APPROVE:	5/20/2025
W. WRIGHT	

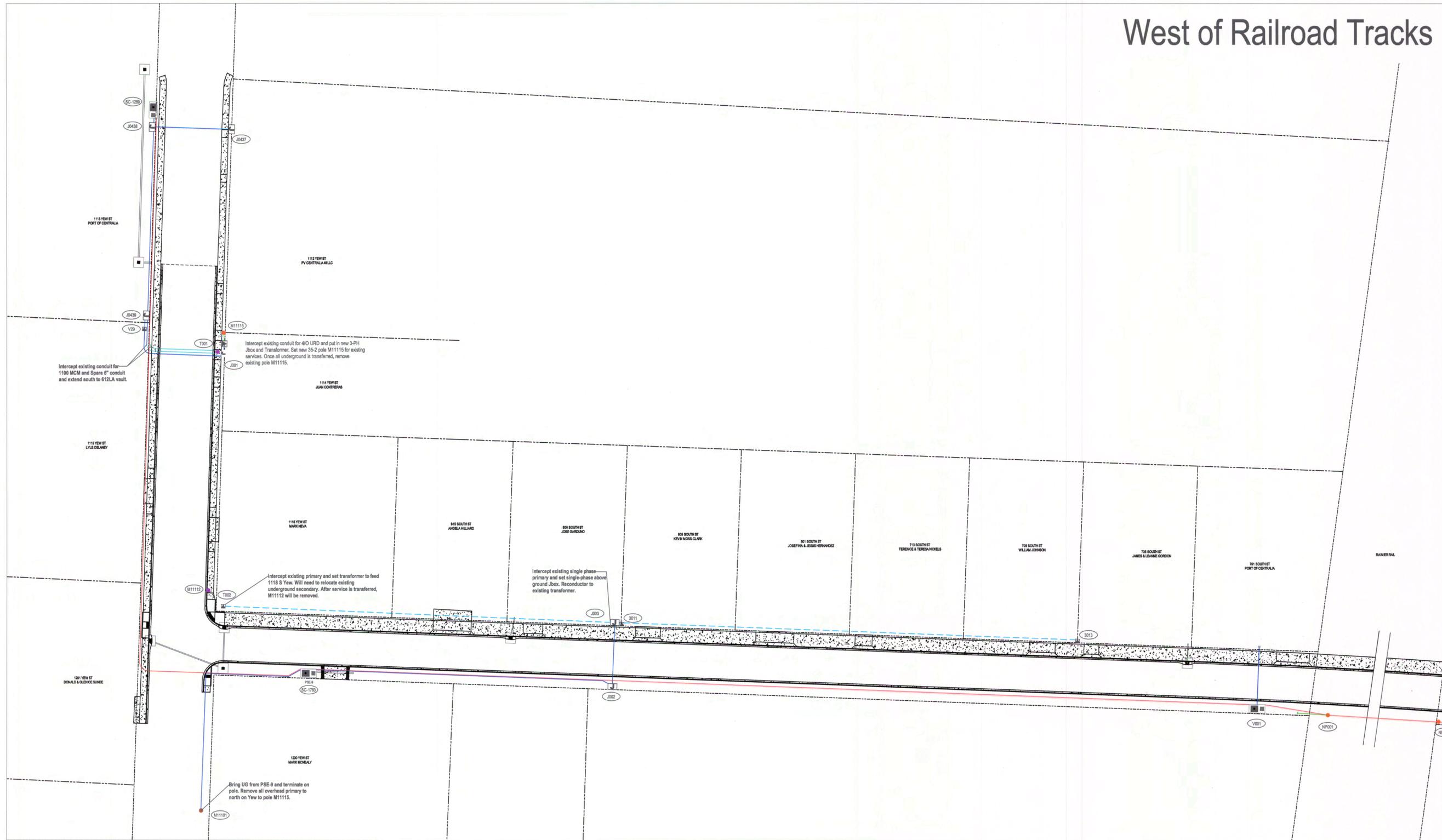
1100 N. TOWER AVE
CENTRALIA, WA 98531
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FAX: (360) 330-7516



South Street System Improvements

PROJECT NO.
925024
PAGE
E1001

West of Railroad Tracks



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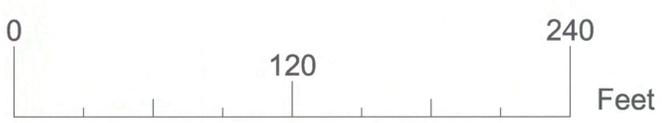
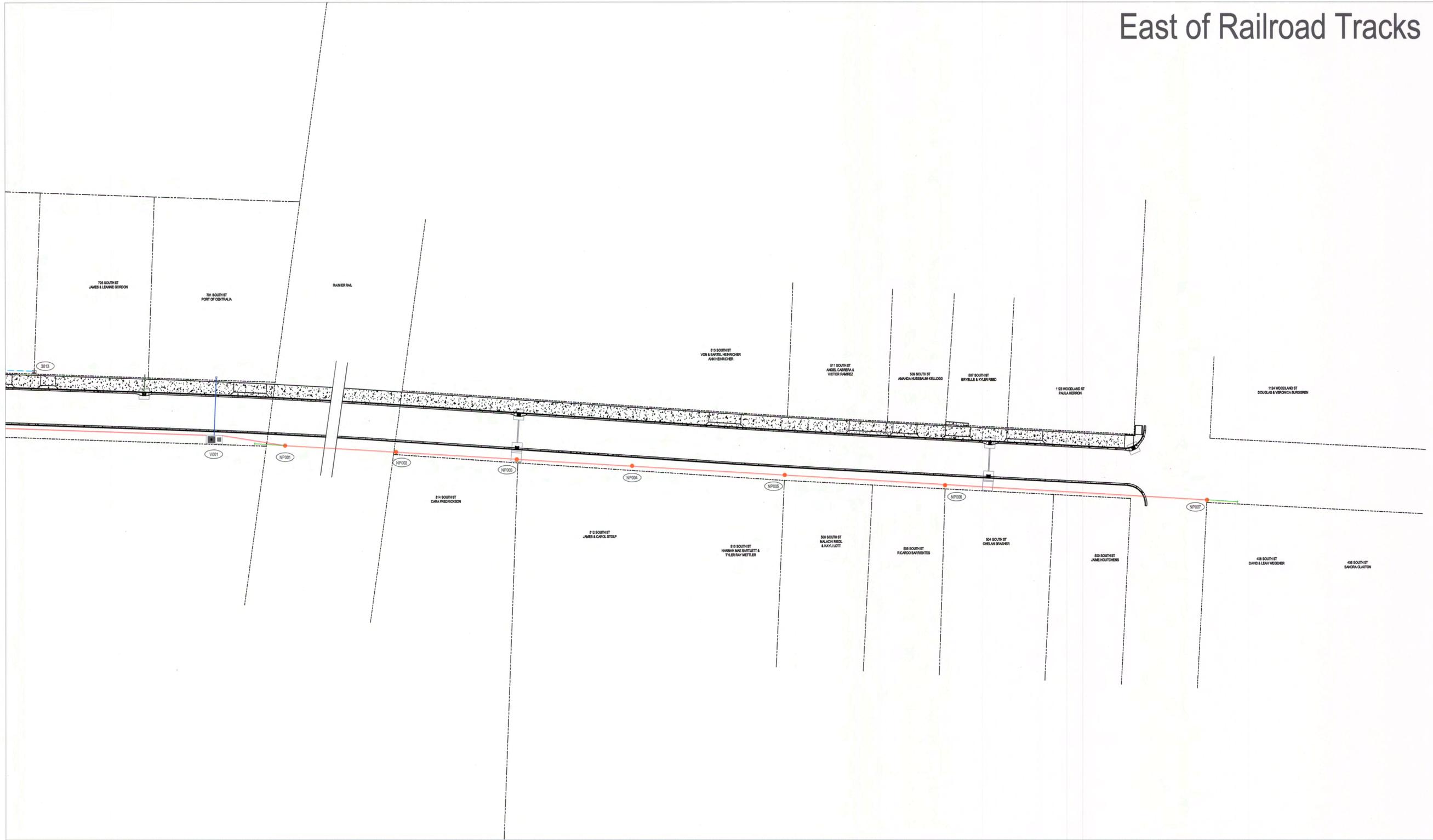
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REVIEW:	
APPROVE:	5/20/2025
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South Street System Improvements

PROJECT NO.
925024
PAGE
E1002A

East of Railroad Tracks



WILLIE L. WRIGHT, JR.
STATE OF WASHINGTON
REGISTERED PROFESSIONAL ENGINEER
42360

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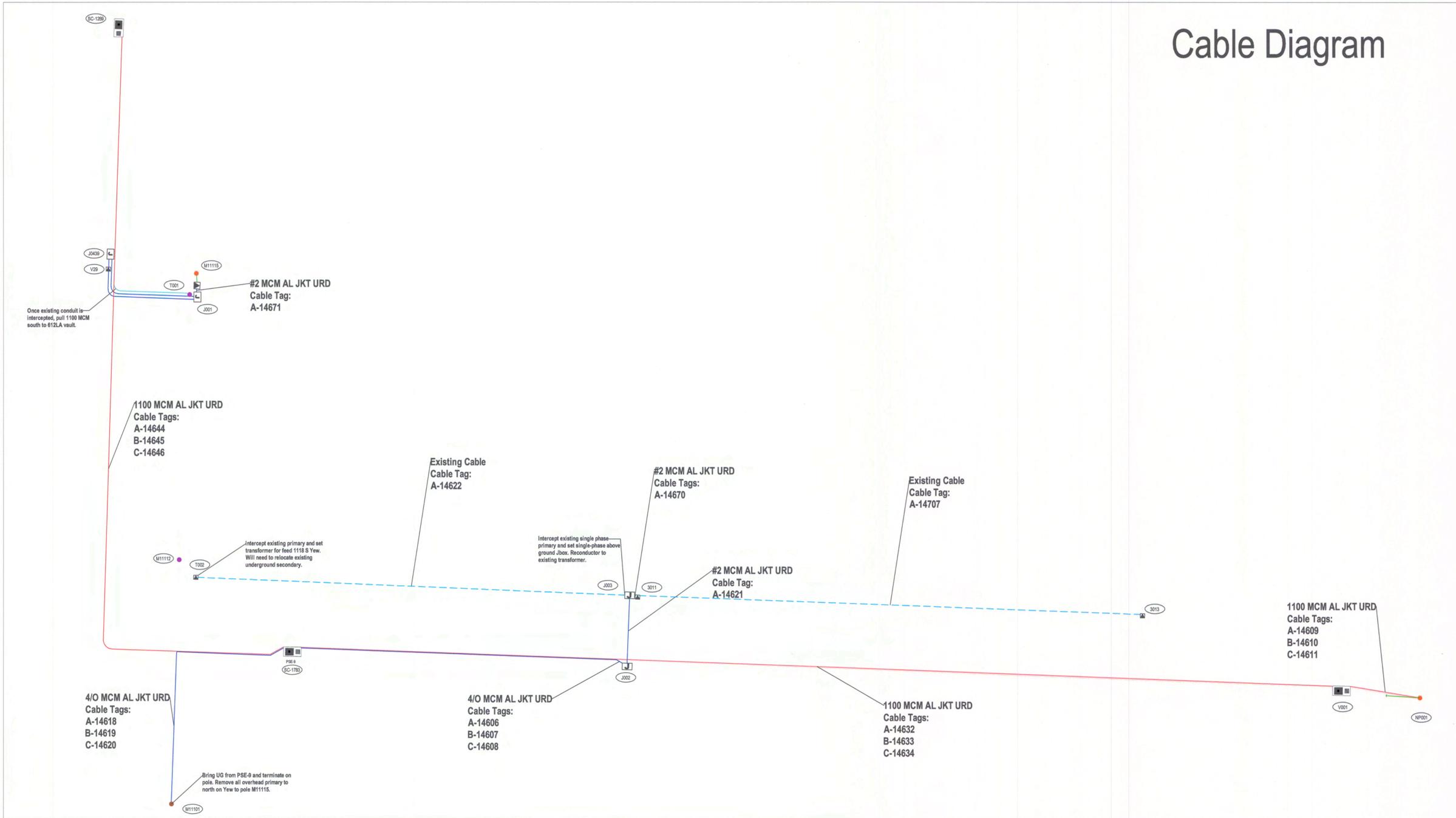
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REVIEW	
APPROVE	5/20/2025
W. WRIGHT	

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South Street System Improvements

PROJECT NO.	925024
PAGE	E1002B

Cable Diagram



DRAFTING SYMBOLS

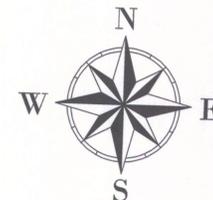
	VAULT NUMBER
	CONSTRUCTION NOTE
	CONDUIT END MARKER
	JUNCTION BOX
	PAD-MOUNT TRANSFORMER
	612LA VAULT
	200A UG PRIMARY CONDUCTOR
	600A UG PRIMARY CONDUCTOR
	500 TRIPLEX SECONDARY CONDUCTOR
	OH PRIMARY CONDUCTOR
	EXISTING UG PRIMARY CONDUCTOR
	POLES (NEW)
	POLES (REMOVE)

LOCATION		PRIMARY CABLE		CABLE NUMBERS			TOTAL	PHASES
FROM	TO	CABLE SIZE	LENGTH (FT)	A	B	C	LENGTH	
SC-1269	SC-1783	1100 mcm AL JKT URD	710	14644	14645	14646	2,129	3
SC-1783	V001	1100 mcm AL JKT URD	915	14632	14633	14634	2,746	3
SC-1783	M11101	4/O mcm AL JKT URD	304	14618	14619	14620	913	3
SC-1783	J002	4/O mcm AL JKT URD	349	14606	14607	14608	1,047	3
J002	J003	#2 mcm AL JKT URD	93	14621			93	1
J003	3011	#2 mcm AL JKT URD	10	14670			10	1
J001	T001	#2 mcm AL JKT URD	10	14671			10	1
V001	NP001	1100 mcm AL JKT URD	109	14609	14610	14611	327	3

#2 mcm AL JKT URD TOTALS = 112 FT
 4/O AL JKT URD TOTALS = 1,960 FT
 1100mcm AL JKT URD TOTALS = 5,203 FT



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DESIGN:	A. STAHL	DATE:	5/16/2025
DRAFT:			
REVIEW:			
APPROVE:	W. WRIGHT		5/20/2025

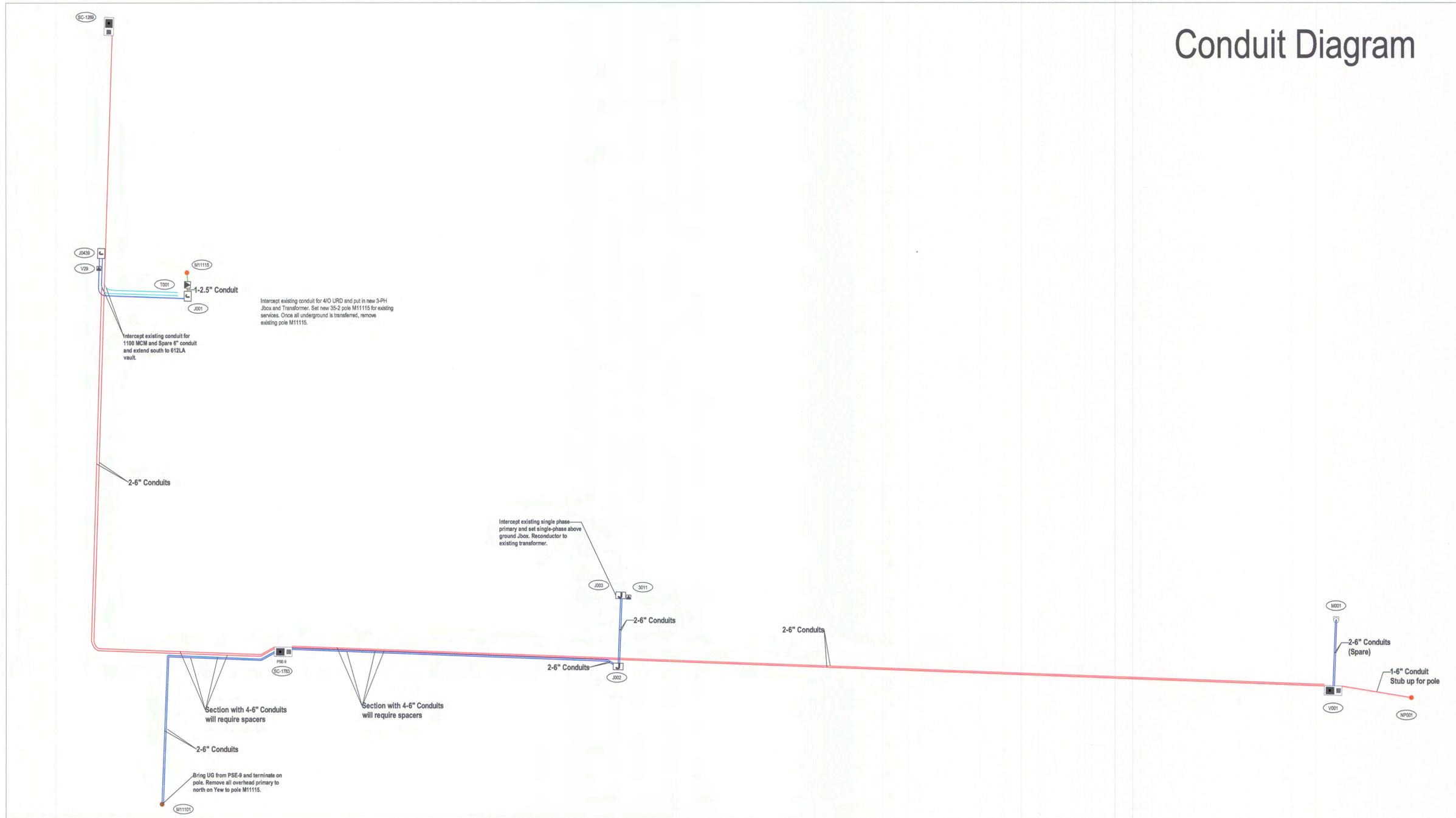
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South Street
 System Improvements

PROJECT NO.
925024
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 E1003

Conduit Diagram



DRAFTING SYMBOLS

- VAULT NUMBER
- CONSTRUCTION NOTE
- CONDUIT END MARKER
- JUNCTION BOX
- PAD-MOUNT TRANSFORMER
- 612LA VAULT
- 6" SCHED 40 PVC (200A DIST SYS)
- 6" SCHED 40 PVC (600A DIST SYS)
- 2.5" SCHED 40 PVC
- 3" SCHED 40 PVC (SECONDARY)
- ABANDONED CONDUIT
- POLES (NEW)
- POLES (REMOVE)

CONDUIT TABLE

LOCATION	FROM	TO	SIZE (IN)	XING NO.	XING LENGTH (FT)	XING QTY	XING TOTAL (X)	REMAINING LENGTH (FT)	QTY PVC	QTY BELLEND	QTY PLUGS	QTY SPACER	BENDS			TOTAL REMAINING (R)	TOTAL CONDUIT (X+R)
													90°	45°	22°		
J0439 SC-1783			6		60	2	120	345	2	4	4	10	2	2	690	810	
SC-1783 M11101			6				0	184	2	4	4	10	4	2	368	368	
SC-1783 J002			6				0	230	2	4	4	29		2	460	460	
SC-1783 V001			6				0	734	2	4	4	29			1468	1468	
J002 J003			6		46	2	92	0	4	4	4				0	92	
V0001 NP001			6				0	60	1	2	2		1		60	60	
J001 T001			2.5				0	5	1	2	2		2		5	5	
J003 3011			2.5				0	5	1	2	2		2		5	5	
V001 M001			6		46	2	92	0	4	4	4				0	92	
TOTALS							304	1,563	30	30	78	11	0	6	3,056	3,360	
Total 2.5" PVC =			2.5				0		4	4	0	4	0	0	10	10	
Total 3" PVC =			3				0		0	0	0	0	0	0	0	0	
Total 4" PVC =			4				0		0	0	0	0	0	0	0	0	
Total 6" PVC =			6				304		26	26	78	7	0	6	3046	3350	
							304		30	30	78	11	0	6	3056	3360	



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DESIGN	DATE
A. STAHL	5/16/2025
DRAFT	
REVIEW	
APPROVE	5/20/2025
W. WRIGHT	

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South Street
System Improvements

PROJECT NO.
925024
PAGE
E1004

Design Tables

LOCATION		PRIMARY CABLE							PHASES
FROM	TO	CABLE SIZE	LENGTH (FT)	CABLE NUMBERS			TOTAL LENGTH		
				A	B	C			
SC-1269	SC-1783	1100 mcm AL JKT URD	710	14644	14645	14646	2,129	3	
SC-1783	V001	1100 mcm AL JKT URD	915	14632	14633	14634	2,746	3	
SC-1783	M11101	4/0 mcm AL JKT URD	304	14618	14619	14620	913	3	
SC-1783	J002	4/0 mcm AL JKT URD	349	14606	14607	14608	1,047	3	
J002	J003	#2 mcm AL JKT URD	93	14621			93	1	
J003	3011	#2 mcm AL JKT URD	10	14670			10	1	
J001	T001	#2 mcm AL JKT URD	10	14671			10	1	
V001	NP001	1100 mcm AL JKT URD	109	14609	14610	14611	327	3	

#2 mcm AL JKT URD TOTALS = 112 FT
 4/0 AL JKT URD TOTALS = 1,960 FT
 1100mcm AL JKT URD TOTALS = 5,203 FT

CONDUIT TABLE

LOCATION		SIZE	XING NO.	XING LENGTH (FT)	XING QTY	XING TOTAL (X)	REMAINING LENGTH (FT)	QTY PVC	QTY BELLEND	QTY PLUGS	QTY SPACER	BENDS			TOTAL REMAINING (R)	TOTAL CONDUIT (X+R)
FROM	TO	(IN)										90°	45°	22°		
J0439	SC-1783	6		60	2	120	345	2	4	4	10	2		2	690	810
SC-1783	M11101	6				0	184	2	4	4	10	4		2	368	368
SC-1783	J002	6				0	230	2	4	4	29			2	460	460
SC-1783	V001	6				0	734	2	4	4	29				1468	1468
J002	J003	6		46	2	92	0	4	4	4					0	92
V0001	NP001	6				0	60	1	2	2		1			60	60
J001	T001	2.5				0	5	1	2	2		2			5	5
J003	3011	2.5				0	5	1	2	2		2			5	5
V001	M001	6		46	2	92	0	4	4	4					0	92
TOTALS							304	1,563	30	30	78	11	0	6	3,056	3,360
Total 2.5" PVC =		2.5				0			4	4	0	4	0	0	10	10
Total 3" PVC =		3				0			0	0	0	0	0	0	0	0
Total 4" PVC =		4				0			0	0	0	0	0	0	0	0
Total 6" PVC =		6				304			26	26	78	7	0	6	3046	3350
							304		30	30	78	11	0	6	3056	3360

Vault Table

NO.	ACTION	FAC ID NUMBER	STATION OFFSET	STRUCTURE TYPE	NO. OF PHASES	VAULT SIZE	VAULT LID SIZE	VAULT LID TYPE	EQUIPMENT TYPE	EQUIPMENT SIZE	PRIMARY BUSHINGS				COMMENTS
											600A ELBOWS	600A SPLICES	200A ELBOWS	DUST CAPS	
J001	INST		3+59.35 27.52' LT	J-BOX	3	4'8" X 7'0" X 6'0"	4'8" X 7'0" X 1'0"	NON-SKID DOORS	4 POS J-BOX	200A	0	0	4	8	3-PH ABOVE GROUND JBOX
T001	INST		3+51.80 27.80' LT	TRANSFORMER	1	FIBERGLASS PAD	NO LID	NO LID	TRANSFORMER	25KVA	0	0	1	1	NEW TRANSFORMER W/SEC RISER UP POLE
SC-1783	INST		101+34.45 17.55' RT	SWITCH	3	6'8" X 12'8" X 8"	6'8" X 12'8" X 1'6"	612-LA	2S, 2T (PSE-9)	600A	6	0	6	0	612-LA VAULT, LID 3-3' SQ DOORS*
J002	INST		103+74.44 20.32' RT	J-BOX	3	4'8" X 7'0" X 6'0"	4'8" X 7'0" X 1'0"	NON-SKID DOORS	4 POS J-BOX	200A	0	0	6	6	577-LA VAULT, LID W/2-3' SQ DOORS
J003	INST		103+74.44 25.17' LT	J-BOX	3	FIBERGLASS PAD	NO LID	NO LID	4 POS J-BOX	200A	0	0	1	3	1-PH ABOVE GROUND JBOX
V001	INST		108+83.23 17.67' RT	VAULT	3	6'8" X 12'8" X 8"	6'8" X 12'8" X 1'6"	612-LA	SPLICE VAULT	600A	6	0	0	6	612-LA VAULT, LID 3-3' SQ DOORS*
TOTALS											12	0	18	24	

* 3 PIECE VAULT 612-SB BASE, 612-ML VAULT, 612-TL-3-332P LID

Centralia City Light (CCL) crews will install all cable and above ground J-boxes. They will relocate or remove poles once all underground is completed. Please coordinate with CCL crews prior to sidewalk installation.

Contractor awarded with Public Works contract will be responsible for ordering and installing 577-LA and 612-LA vaults. They will also order and install all 6" conduit and spacers outlined in electric plans. Contractor responsible for all backfill as outlined in detailed drawings. Contractor will need to coordinate with CCL crews at interception points. CCL crews may vac out area to locate existing conduit for intercepting.

For CCL crew coordination, please contact Ashley Stahl at 360-330-7512 or astahl@cityofcentralia.com.

REV	BY	DATE
1		
2		
3		

DESIGN: A. STAHL	DATE: 5/16/2025
DRAFT:	
REVIEW:	
APPROVE: W. WRIGHT	5/20/2025

1100 N. TOWER AVE
 CENTRALIA, WA 98531
 OFFICE: (360) 330-7512
 FAX: (360) 330-7516



South Street
 System Improvements

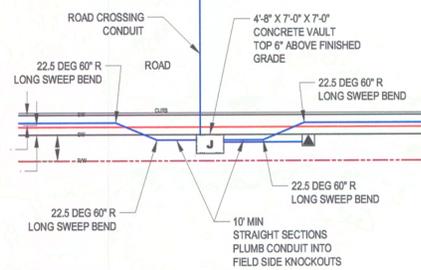


THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
 Willie L. Wright, Jr.

PROJECT NO.
925024
 PAGE
 E1005

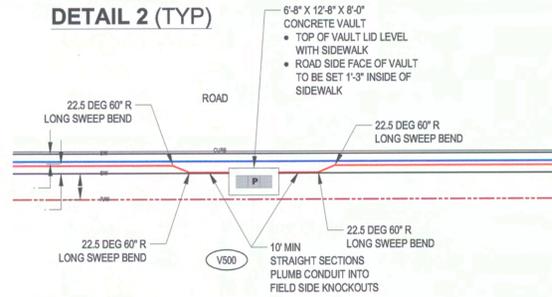
Detailed Drawings

DETAIL 1 (TYP)



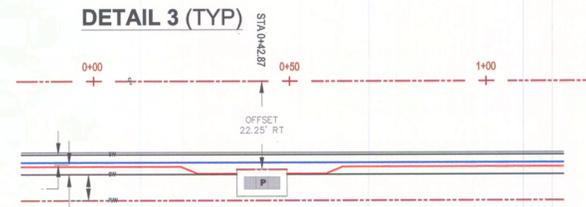
CONDUIT NOTE:
LONG SWEEPING BENDS IN AND OUT OF VAULT. CONDUIT SHOULD PLUMB INTO AND OUT OF THE NARROW ENDS OF VAULT. USE VAULT KNOCKOUTS CLOSEST TO THE ROAD. THIS MINIMIZES HEAVY ANGLE BENDS FOR CABLE PULLING.

DETAIL 2 (TYP)



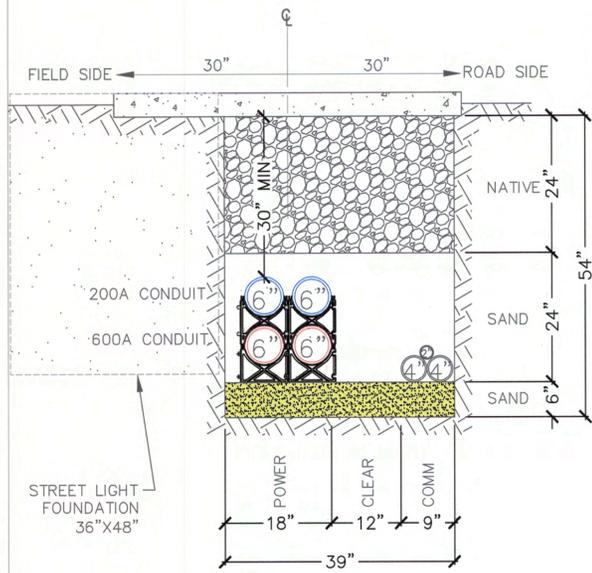
CONDUIT NOTE:
LONG SWEEPING BENDS IN AND OUT OF VAULT. CONDUIT SHOULD PLUMB INTO AND OUT OF THE NARROW ENDS OF VAULT. USE VAULT KNOCKOUTS CLOSEST TO THE ROAD. THIS MINIMIZES HEAVY ANGLE BENDS FOR CABLE PULLING.

DETAIL 3 (TYP)



VAULT LOCATION NOTE:
• VAULT LOCATIONS ARE SPECIFIED BY ROAD CENTERLINE STATIONING.
• VAULTS SHALL BE OFFSET FROM THE ROAD CENTERLINE TO THE CENTER OF THE ROADSIDE FACE OF THE VAULT.

TRENCH DETAIL



DEPTH OF BURY REQUIREMENTS

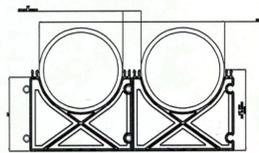
2017 NESC 352.A.2.D

THE DISTANCE BETWEEN THE TOP OF THE CABLE OR DUCT TO THE SURFACE UNDER WHICH IT IS INSTALLED (DEPTH OF BURIAL) SHALL BE NOT LESS THAN:

1. PRIMARY CABLE (7.2/12.47 KV) = 30"
2. SECONDARY CABLE (0 - 600 V) = 24"

CONDUIT SPACER REQUIREMENTS

- 6" SCHEDULE 40 PVC CONDUIT SHALL BE STACKED VERTICALLY IN THE TRENCH IN ROWS OF 2-6" CONDUITS.
- CAL AM 6" x 1-1/2" (PART#4160-15) BASE UNIT SHALL BE INSTALLED BELOW THE CONDUIT AND (PART#4160-15) INTERMEDIATE UNIT SHALL BE INSTALLED ABOVE THE BOTTOM 2 - 6" CONDUITS. THE TOP 2 - 6" CONDUITS SHALL BE INSTALLED ON THE INTERMEDIATE CONDUIT SPACERS.
- SPACERS SHALL BE INSTALLED LONGITUDINALLY IN THE TRENCH A MINIMUM OF EVERY 8'.
- TWO INDIVIDUAL SPACERS REQUIRED TO MAKE ONE SPACER UNIT. TOTAL ESTIMATED NUMBER OF SPACER UNITS REQUIRED: 78
- 78 BASE SPACERS & 78 INTERMEDIATE SPACERS REQUIRED.

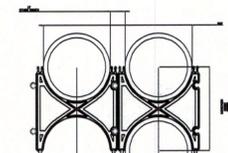


6" x 1-1/2" SPACER BASE



<http://calam.net>

REPRESENT ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED	DATE	Part 1 B
UNLESS OTHERWISE SPECIFIED	4060-15	
MATERIAL	HIPS (BLACK)	
COLOR	BLACK	



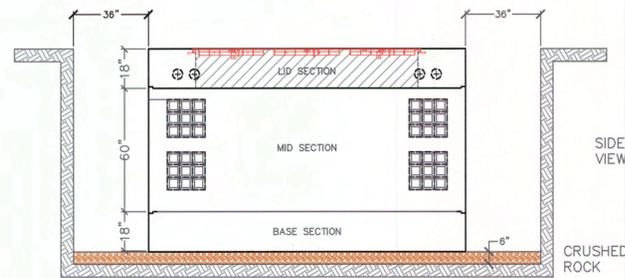
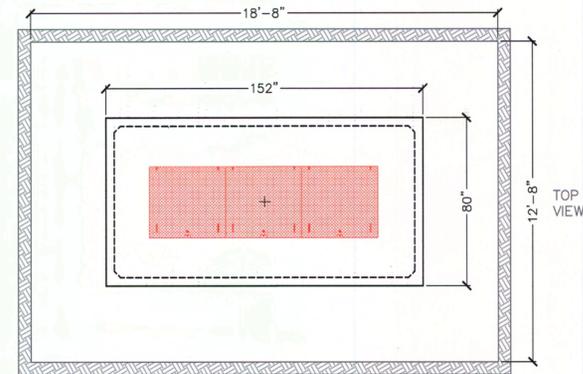
6" x 1-1/2" SPACER INTERMEDIATE



<http://calam.net>

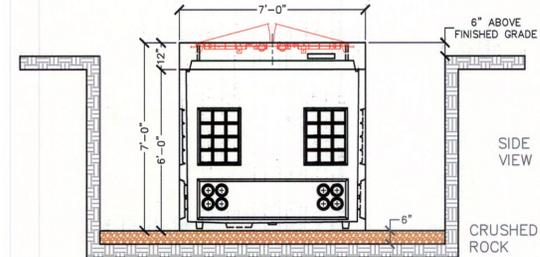
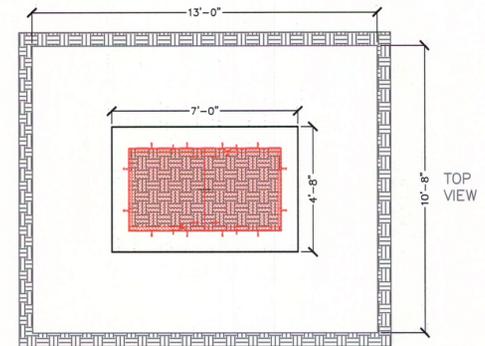
REPRESENT ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED	DATE	Part 1 B
UNLESS OTHERWISE SPECIFIED	4160-15	
MATERIAL	HIPS (BLACK)	
COLOR	BLACK	

612-LA VAULT EXCAVATION



VAULT SHALL BE SELF-GROUNDING AND CONTAIN A MINIMUM OF THREE SECTIONS
ELEVATION OF TOP OF VAULT LID SHALL MATCH THE ELEVATION OF SIDEWALK

577-LA VAULT EXCAVATION



VAULT SHALL BE SELF-GROUNDING

REV	DATE	BY
1		
2		
3		

DESIGN: A. STAHL
DATE: 5/16/2025
DRAFT:
REVIEW:
APPROVE: W. WRIGHT
DATE: 5/20/2025

1100 N. TOWER AVE
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South Street
System Improvements

PROJECT NO.
925024
PAGE
E1006



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
Willie L. Wright, Jr.