INDEX OF SHEETS	
SHEET NO.	DESCRIPTION
A01	Title Sheet
A02	Index Of Sheets Cont'd. & Std. Drg. Nos.

CITY OF ALBANY PUBLIC WORKS

PLANS FOR PROPOSED PROJECT

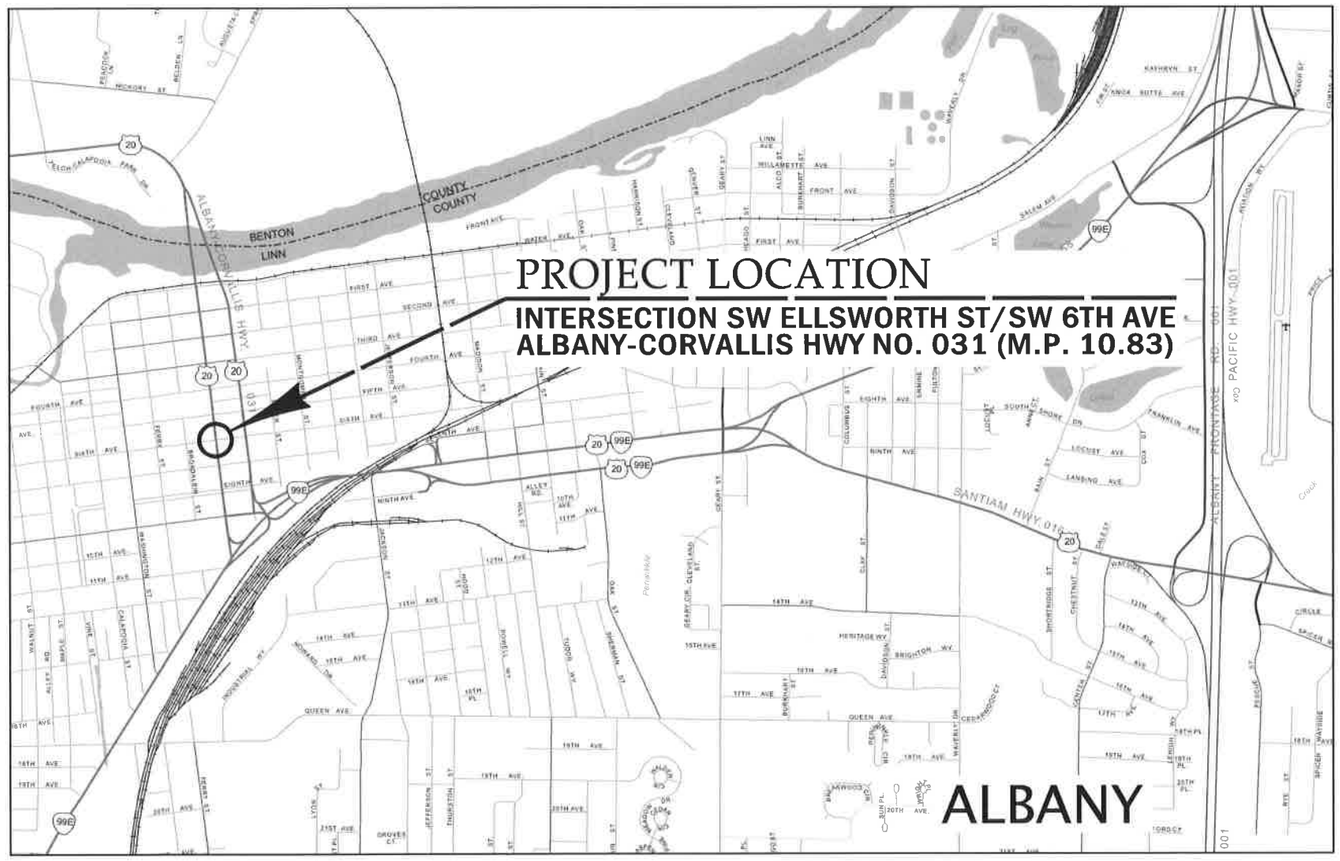
SIGNALS, SIGNING & STRIPING

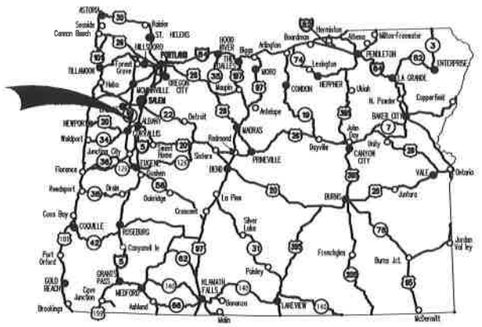
SW ELLSWORTH STREET/SW 6TH AVENUE INTERSECTION SIGNAL DESIGN (TS-18-01)

SW ELLSWORTH STREET (US 20)

LINN COUNTY

JUNE 2018





Overall Length Of Project - N/A

ATTENTION:
Oregon Law Requires You To Follow Rules Adopted By The Oregon Utility Notification Center. Those Rules Are Set Forth In OAR 952-001-0010 Through OAR 952-001-0090. You May Obtain Copies Of The Rules By Calling The Center. (Note: The Telephone Number For The Oregon Utility Center Is (503) 232-1987.)

LET'S ALL WORK TOGETHER TO MAKE THIS JOB SAFE

N

T. 11 S., R. 3 W., W.M.

PLANS PREPARED FOR
CITY OF ALBANY

DAVID EVANS AND ASSOCIATES, INC.
530 Center St. NE Suite 605
Salem Oregon 97301 Ph: 503..361.8635

These plans were developed using ODOT design standards. Exceptions to these standards, if any, have been submitted and approved by the ODOT Chief Engineer or their delegated authority.

PLANS PREPARED FOR CITY OF ALBANY

Signature & date 6/14/18

Cameron Grile, P.E. - Project Manager
Print name and title

SW ELLSWORTH STREET/SW 6TH AVENUE INTERSECTION SIGNAL DESIGN (TS-18-01)
SW ELLSWORTH STREET (US 20)
LINN COUNTY

PROJECT NUMBER	SHEET NO.
TS-18-01	A01

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INDEX OF SHEETS

SHEET NO.	DESCRIPTION
EA01	Traffic Control Details
EB01 thru EB04	Temporary Pedestrian Access Route Plan
LA01	Permanent Signing & Pavement Marking Plan
MA01	Legend
MB01	Existing Utilities
MB02	Removal Plan
MB03	Signal Plan
MB04	Detector Plan
MB05	Interconnect Plan
MB06	Pole Table
MB07, MB08	Details

Standard Drg. Nos.

TM223	-Conventional Roads Directional Sign Layout Street Name Signs
TM450	-Mast Arm Pole Details
TM457	-Vehicle, Pedestrian Signal and Push Button Mounting Option Details
TM460	-Vehicle Signal Details
TM462	-Adjustable Signal Head Mounting Details
TM465	-Overhead Sign, Fire Preemption and Photoelectric Control Details
TM467	-Pedestrian Signal and Pedestrian Push Button Details
TM470	-Color Code Charts
TM472	-Traffic Signal Junction Box/Hand Holes
TM482	-Controller Cabinet & Foundation Details
TM485	-Service Cabinets and Service Cabinet Wiring Details
TM488	-Terminal Cabinet Details
TM503	-Pavement Marking Standard Detail Blocks
TM530	-Intersection Pavement Markings (Crosswalk, Stop Bar & Bike Lane Stencil)
TM650	-Traffic Signal Supports General Details & Design Criteria
TM651	-Traffic Signal Supports (Notes and Reactions)
TM652	-Traffic Signal Supports (Steel Details)
TM653	-Traffic Signal Supports (Foundation Requirements)
TM679	-Signal Mast Arm Street Name Sign Mounts
TM800	-Tables,Abrupt Edge and PCMS Details
TM820	-Temporary Barricades
TM821	-Temporary Sign Supports
TM822	-Temporary Sign Supports
TM841	-Intersection Work Zone Details
TM844	-Temporary Pedestrian Access Routing

Standard Drawings located on the web at:
http://www.oregon.gov/ODOT/HWY/ENGSERVICES/pages/standard drawings home.aspx

SW ELLSWORTH STREET/SW 6TH AVENUE
INTERSECTION SIGNAL DESIGN (TS-18-01)
SW ELLSWORTH STREET (US 20)
LINN COUNTY

PROJECT NUMBER	SHEET NO.
TS-18-01	A02

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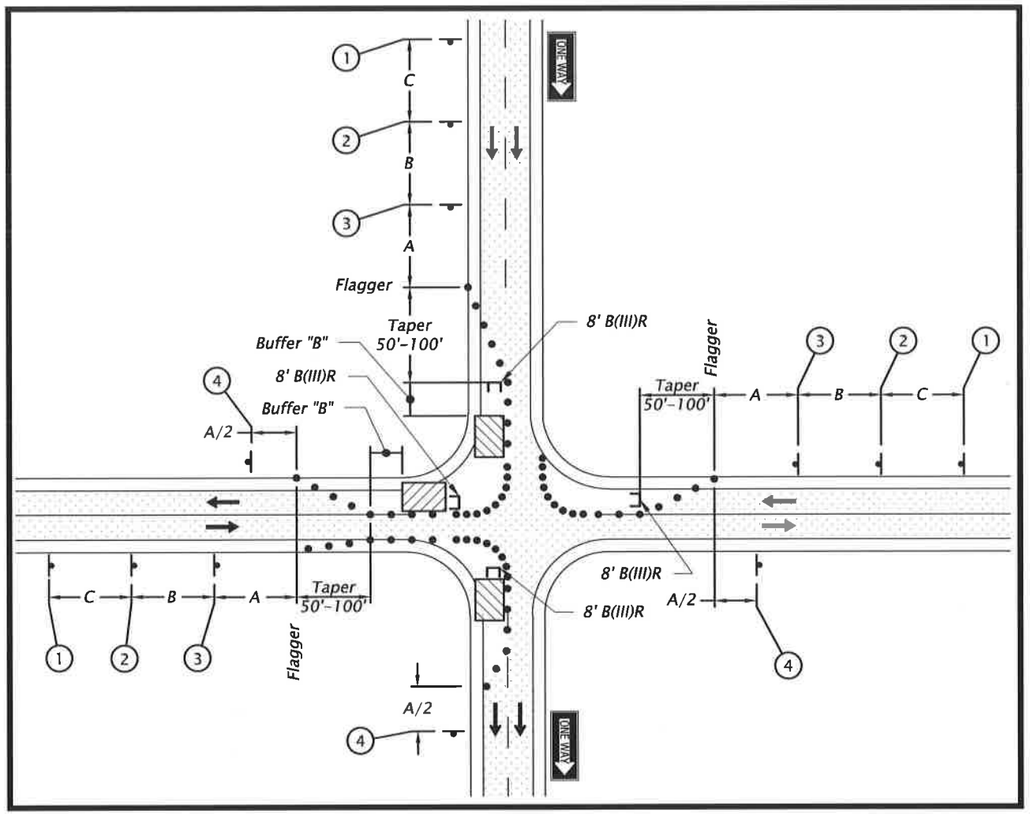
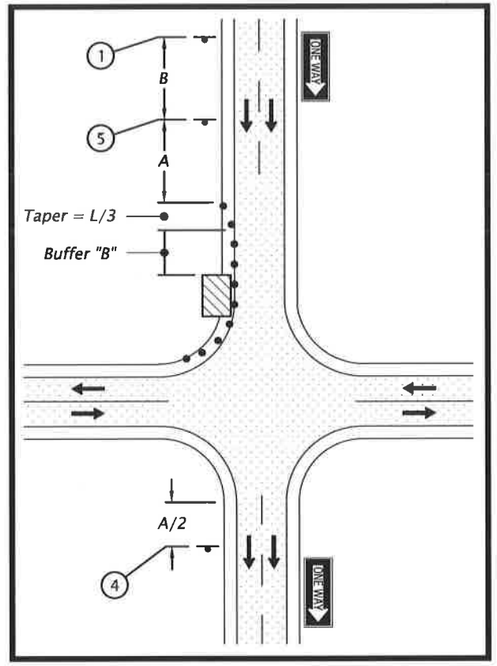
TRAFFIC CONTROL DETAILS



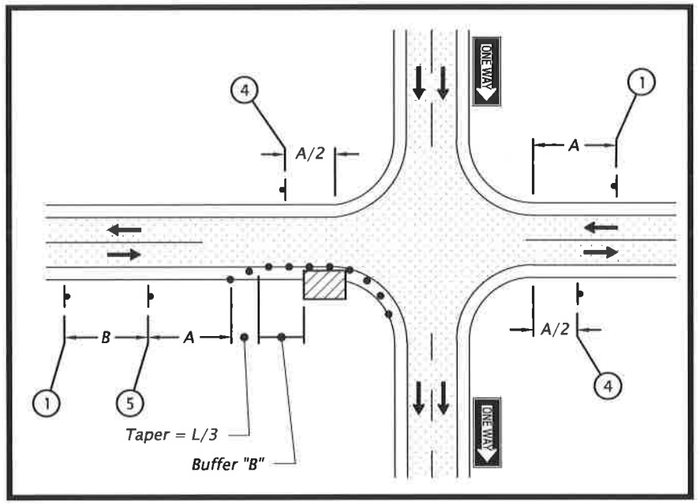
2-LANE, 1-WAY / 2-LANE, 2-WAY
SINGLE LANE CORNER CLOSURE DETAIL

NO SCALE



2-LANE, 1-WAY
SHOULDER CLOSURE DETAIL

NO SCALE

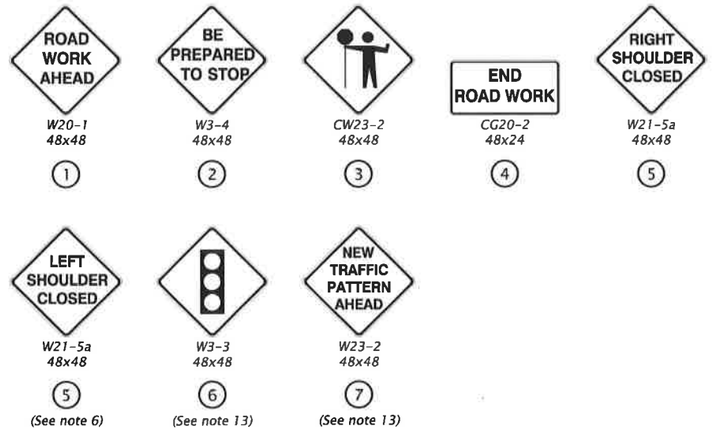


2-LANE, 2-WAY
SHOULDER CLOSURE DETAIL

NO SCALE

LEGEND

- Temporary traffic control sign
- Barricade
- 28" Tubular marker on 20' max. spacing (See note 10)
- Under construction
- Under traffic



TRAFFIC CONTROL NOTES

1. All materials and devices used for temporary traffic control shall conform to the 2018 Oregon Standard Specifications for Construction, and as amended by the Special Provisions.
2. Additional traffic control measures (TCM) may be required for all legs of the intersection.
3. Work zones occur along an Emergency Vehicle distribution path (Fire Station located at SW 6th Avenue / SE Lyon Street). Contractor shall ensure passage of Emergency Vehicles as necessary without delays.
4. The "FLAGGER" (CW23-2) symbol sign shall be used only in conjunction with the "BE PREPARED TO STOP" (W3-4) sign.
5. To determine Taper Length ("L") and Buffer Length ("B"), use the "MINIMUM LENGTHS TABLE" on Dwg. TM800.
6. "SHOULDER CLOSURE" details may be mirrored to accomodate opposite shoulder closure. Use "LEFT SHOULDER CLOSED" (W21-5a) sign, where applicable.
7. "CORNER CLOSURE" detail may be mirrored to accomodate opposite corner closure.
8. To determine sign spacing A, B and C, use "TRAFFIC CONTROL DEVICES (TCD) SPACING TABLE" on Dwg. TM800.
9. When a through road intersects within the work zone, place a "ROAD WORK AHEAD" (W20-1) sign in advance of the intersection at sign spacing "A".
10. Place channelizing devices around intersection radii and construction areas at 10' spacing.
11. Install a "BICYCLES ON ROADWAY" (CW11-1) sign in advance of the closure when a bike lane is closed, or when the shoulder is closed and bicycles are expected.
12. Contractor shall ensure placement of Traffic Control Measures and Devices shown in details to avoid conflicts with the Temporary Pedestrian Access Route Plan. See Sheets EB01 thru EB04.
13. Install "SIGNAL AHEAD" (W3-3) and "NEW TRAFFIC PATTERN AHEAD" (W23-2) signs in accordance with Section 00225.02 of the Special Provisions.
14. Signs and other traffic control devices (TCD) shown are minimum required. Adjustment of temporary TCD may be required to accomodate existing field conditions.

REGISTERED PROFESSIONAL ENGINEER
81209PE
OREGON
MARCH 11, 2008
SARAH ANN HELLER
EXPIRES 6.30.2019

DAVID EVANS AND ASSOCIATES INC.
530 Center Street N.E., Suite 605
Salem Oregon 97301
Phone: 503.361.8635

SW ELLSWORTH STREET/SW 6TH AVENUE INTERSECTION SIGNAL DESIGN (TS-18-01)

SW ELLSWORTH STREET (US 20)
LINN COUNTY

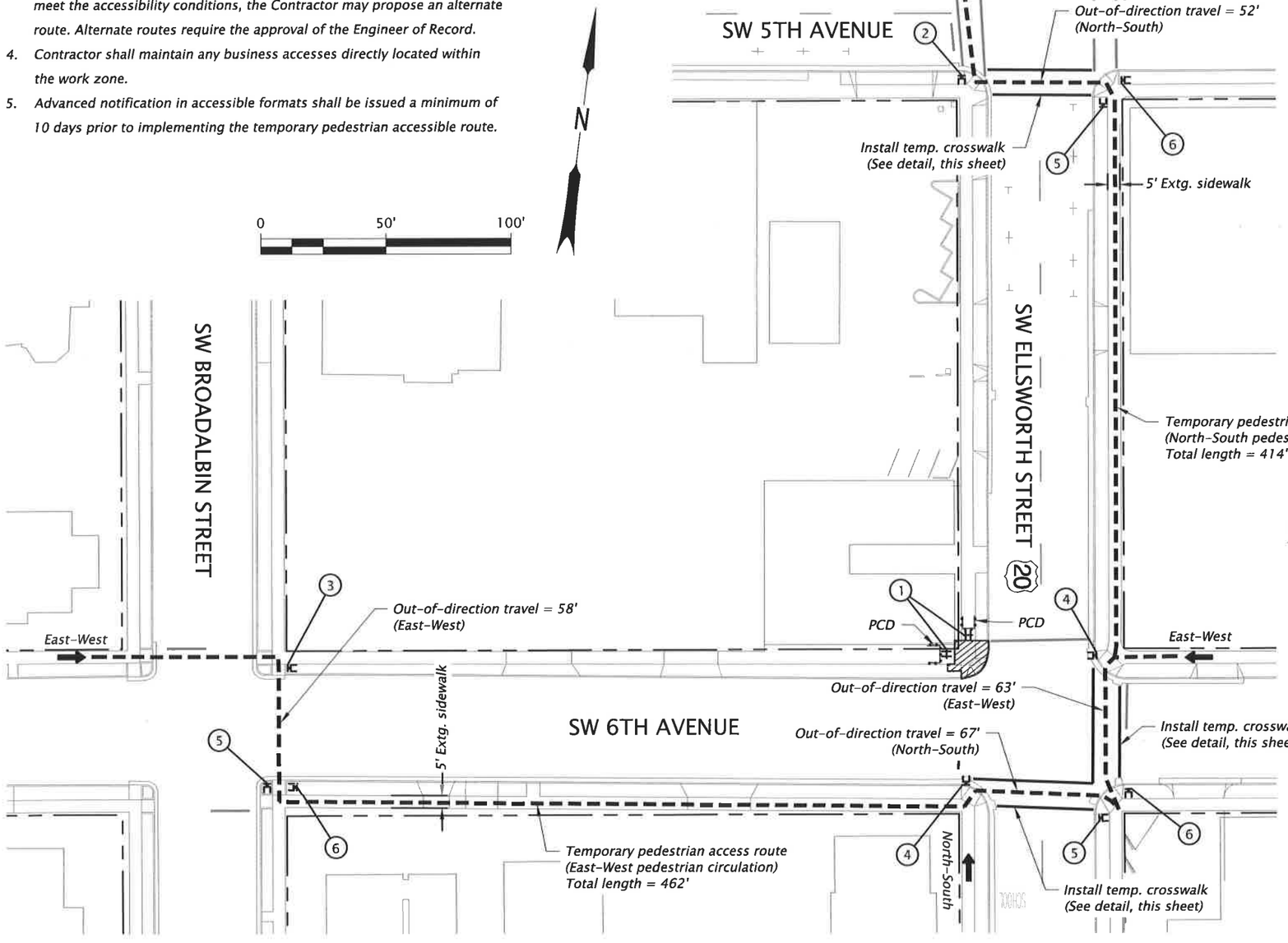
Designer: S. HELLER | Reviewer: J. CLARK
Drafter: R. BERGER | Checker: C. GRILE

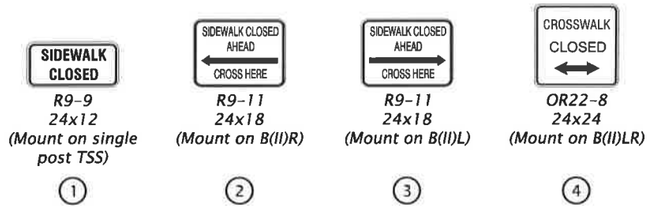
TRAFFIC CONTROL DETAILS | SHEET NO. EA01

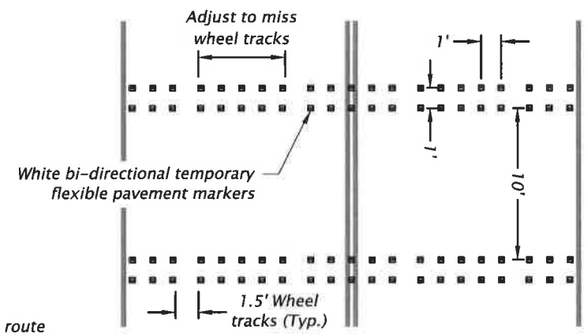
CONSTRUCTION NOTES

1. *All materials and devices used in the temporary pedestrian access route shall conform to the 2018 Oregon Standard Specifications for Construction, and as amended by the Special Provisions.*
2. *Temporary pedestrian access route shall maintain an unobstructed width of 60 inches. Where 60 inches can not be achieved, the minimum unobstructed width shall be 48 inches, accompanied by 60 inch x 60 inch passing spaces every 200 feet.*
3. *Temporary pedestrian access route must meet or exceed current levels of accessibility. If the conditions in the field for the designed route do not meet the accessibility conditions, the Contractor may propose an alternate route. Alternate routes require the approval of the Engineer of Record.*
4. *Contractor shall maintain any business accesses directly located within the work zone.*
5. *Advanced notification in accessible formats shall be issued a minimum of 10 days prior to implementing the temporary pedestrian accessible route.*

TEMPORARY PEDESTRIAN ACCESS ROUTE
PHASE 1 - CORNER #1 CLOSURE







TEMPORARY CROSSWALK DETAIL

NO SCALE

LEGEND

- *Under construction*
- *Temp. pedestrian access route (TPAR)*
- *Pedestrian channelization device (PCD)*
- *Temporary sign support (TSS)*
- *Sign on barricade*
- *Pedestrian circulation path* (East-West / East-West)

REGISTERED PROFESSIONAL ENGINEER
81209PE
OREGON
MARCH 11, 2008
SARAH ANN HELLER
EXPIRES 6·30·2019

DAVID EVANS AND ASSOCIATES INC.
530 Center Street N.E., Suite 605
Salem Oregon 97301
Phone: 503.361.8635

SW ELLSWORTH STREET/SW 6TH AVENUE INTERSECTION SIGNAL DESIGN (TS-18-01)

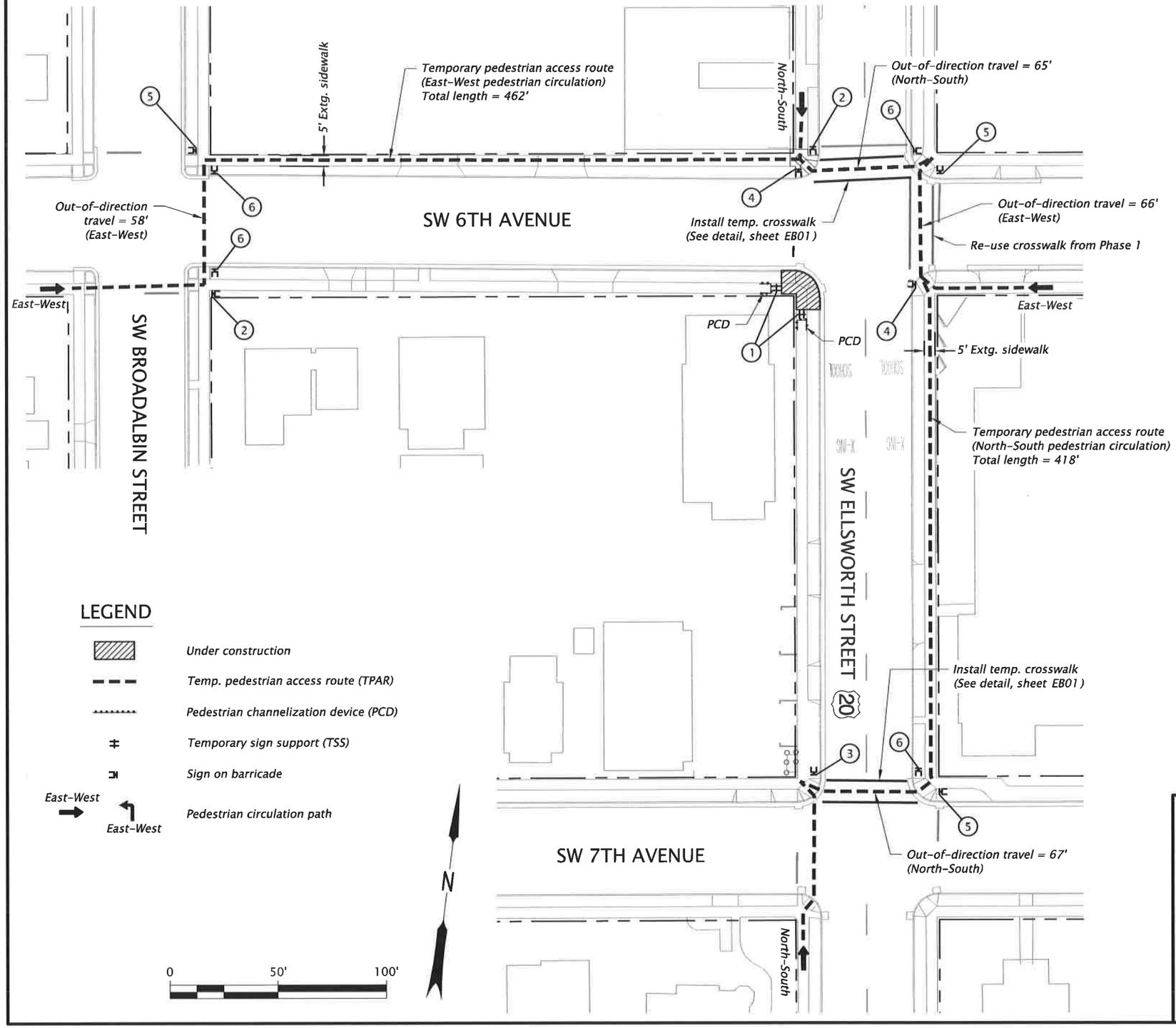
SW ELLSWORTH STREET (US 20)
LINN COUNTY

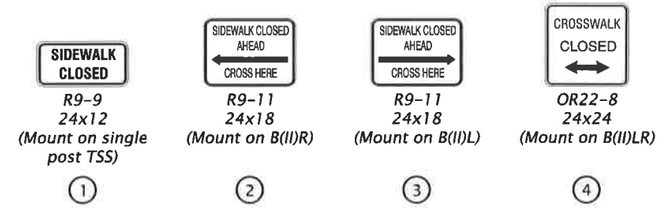
Designer: S. HELLER | Reviewer: J. CLARK
Drafter: R. BERGER | Checker: C. GRILE

TEMPORARY PEDESTRIAN ACCESS ROUTE PLAN

SHEET NO. EB01

TEMPORARY PEDESTRIAN ACCESS ROUTE
PHASE 2 – CORNER #2 CLOSURE





LEGEND

- Under construction
- Temp. pedestrian access route (TPAR)
- Pedestrian channelization device (PCD)
- Temporary sign support (TSS)
- Sign on barricade
- Pedestrian circulation path (East-West / East-West)

CONSTRUCTION NOTES

1. *See notes 1 through 5, sheet EB01.*
2. *Contractor may reuse temporary crosswalks which have undamaged markings in good condition. Damaged crosswalks that are needed for this stage shall be repaired or replaced.*

REGISTERED PROFESSIONAL ENGINEER
81209PE
OREGON
MARCH 11, 2008
SARAH ANN HELLER
EXPIRES 6-30-2019

DAVID EVANS AND ASSOCIATES INC.
530 Center Street N.E., Suite 605
Salem Oregon 97301
Phone: 503.361.8635

SW ELLSWORTH STREET/SW 6TH AVENUE INTERSECTION SIGNAL DESIGN (TS-18-01)

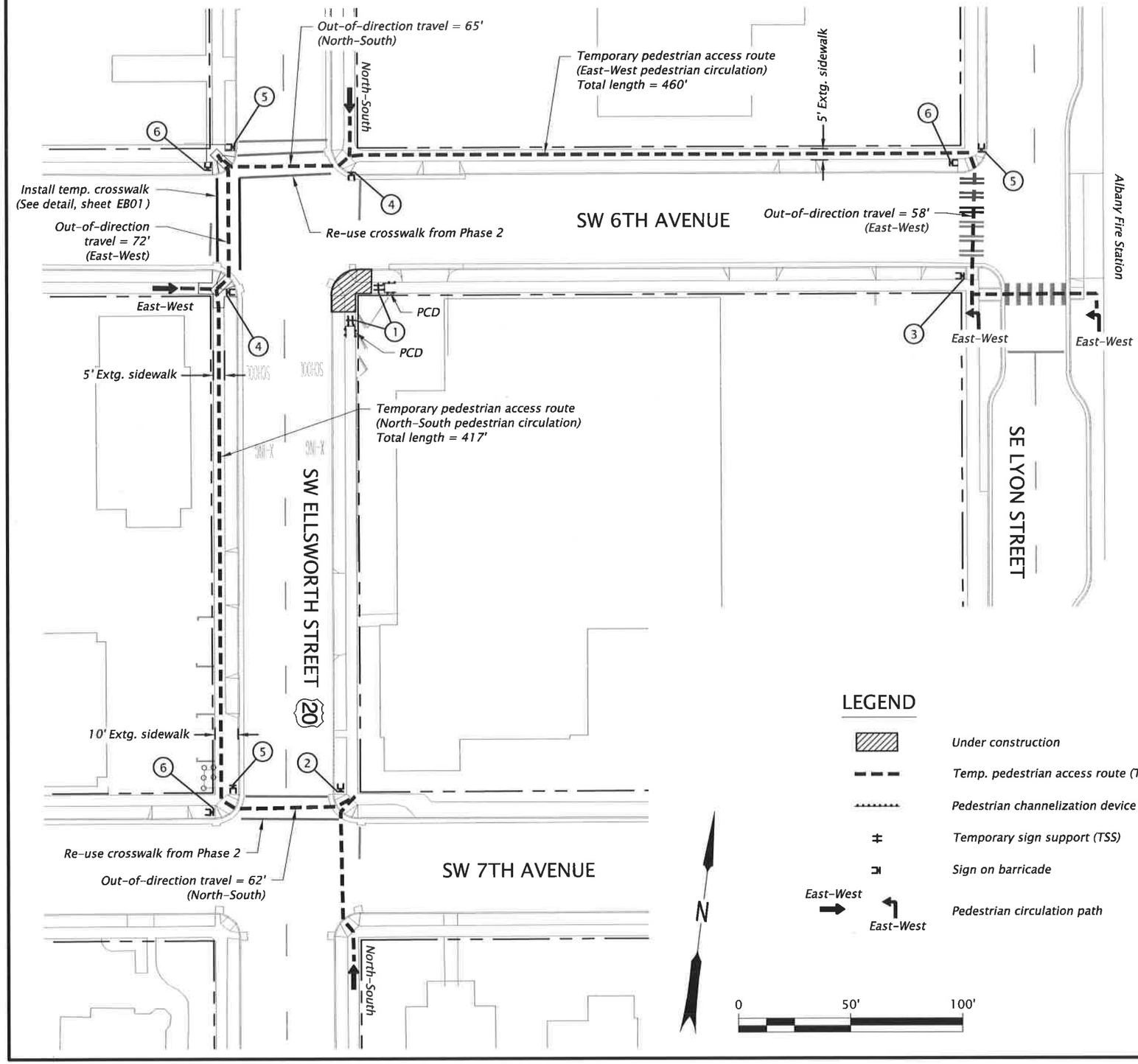
SW ELLSWORTH STREET (US 20)
LINN COUNTY

Designer: S. HELLER | Reviewer: J. CLARK
Drafter: R. BERGER | Checker: C. GRILE

TEMPORARY PEDESTRIAN ACCESS ROUTE PLAN

SHEET NO. EB02

TEMPORARY PEDESTRIAN ACCESS ROUTE
PHASE 3 – CORNER #3 CLOSURE



R9-9
24x12
(Mount on single post TSS)

①

R9-11
24x18
(Mount on B(II)R)

②

R9-11
24x18
(Mount on B(II)L)

③

OR22-8
24x24
(Mount on B(II)LR)

④

M4-9b
30x24
(Mount on B(II)R)

⑤

M4-9b
30x24
(Mount on B(II)L)

⑥

LEGEND

- Under construction
- Temp. pedestrian access route (TPAR)
- Pedestrian channelization device (PCD)
- Temporary sign support (TSS)
- Sign on barricade
- Pedestrian circulation path

CONSTRUCTION NOTES

1. See notes 1 through 5, sheet EB01.
2. See note 2, sheet EB02.

REGISTERED PROFESSIONAL ENGINEER
81209PE
OREGON
MARCH 11, 2008
SARAH ANN HELLER
EXPIRES 6·30·2019

DAVID EVANS AND ASSOCIATES INC.
530 Center Street N.E., Suite 605
Salem Oregon 97301
Phone: 503.361.8635

SW ELLSWORTH STREET/SW 6TH AVENUE INTERSECTION SIGNAL DESIGN (TS-18-01)

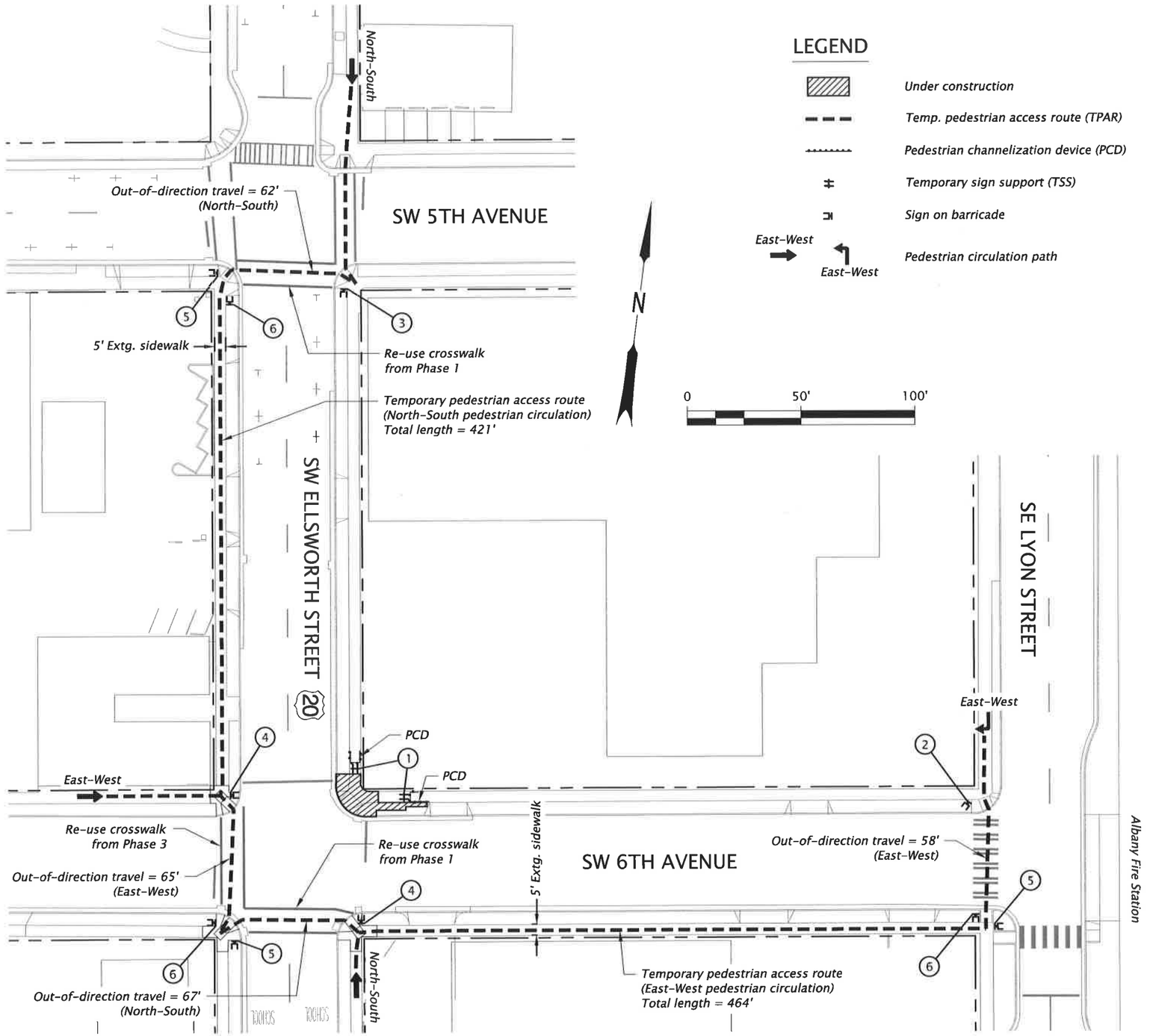
SW ELLSWORTH STREET (US 20)
LINN COUNTY

Designer: S. HELLER	Reviewer: J. CLARK
Drafter: R. BERGER	Checker: C. GRILE

TEMPORARY PEDESTRIAN ACCESS ROUTE PLAN

SHEET NO. EB03

TEMPORARY PEDESTRIAN ACCESS ROUTE
PHASE 4 - CORNER #4 CLOSURE



LEGEND

- Under construction
- Temp. pedestrian access route (TPAR)
- Pedestrian channelization device (PCD)
- Temporary sign support (TSS)
- Sign on barricade
- East-West / East-West — Pedestrian circulation path

R9-9
24x12
(Mount on single post TSS)

(1)

R9-11
24x18
(Mount on B(II)R)

(2)

R9-11
24x18
(Mount on B(II)L)

(3)

OR22-8
24x24
(Mount on B(II)LR)

(4)

M4-9b
30x24
(Mount on B(II)R)

(5)

M4-9b
30x24
(Mount on B(II)L)

(6)

CONSTRUCTION NOTES

1. See notes 1 through 5, sheet EB01.
2. See note 2, sheet EB02.
3. Remove all temporary pavement markings at the completion of Phase 4.

REGISTERED PROFESSIONAL ENGINEER
81209RE
OREGON
MARCH 11, 2008
SARAH ANN HELLER
EXPIRES 6.30.2019

DAVID EVANS AND ASSOCIATES INC.
530 Center Street N.E., Suite 605
Salem Oregon 97301
Phone: 503.361.8635

SW ELLSWORTH STREET/SW 6TH AVENUE INTERSECTION SIGNAL DESIGN (TS-18-01)

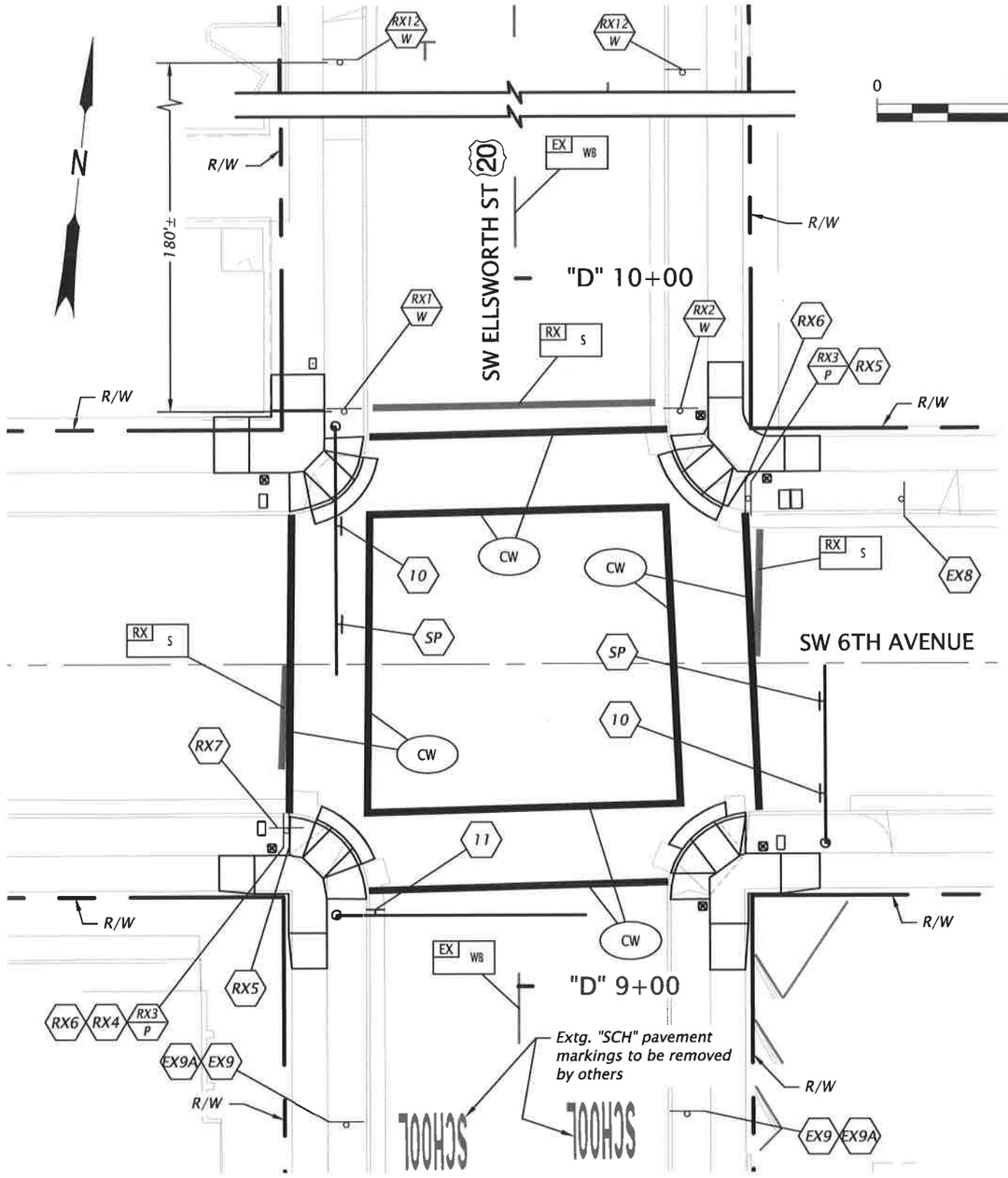
SW ELLSWORTH STREET (US 20)
LINN COUNTY

Designer: S. HELLER	Reviewer: J. CLARK
Drafter: R. BERGER	Checker: C. GRILE

TEMPORARY PEDESTRIAN ACCESS ROUTE PLAN

SHEET NO. EB04

PERMANENT SIGNING & PAVEMENT MARKING PLAN
SW ELLSWORTH STREET (US 20) AT SW 6TH AVENUE
ALBANY-CORVALLIS HWY. AT M.P. 10.83
(ALBANY)



STRIPING LEGEND

CW	Install standard crosswalk (See dwg. TM503)
EX WB	Retain and protect extg. 4" white broken line
RX S	Remove extg. 12" white stop bar

STRIPING NOTES:

1. Match point to existing striping and station call-outs are approximate and shall be field verified. Exact locations are to be determined in the field by the Engineer.
2. All pavement legends and bars shall be Type B-HS, preformed, fused thermoplastic film high skid. See Section 00867 in the Special Provisions .
3. Maintain and protect all existing striping except as otherwise shown in plans. Removal of existing pavement markings shown is approximate and shall be field verified.
4. Dimensions shown are approximate. All pavement marking shall be proved in the field by the Engineer.

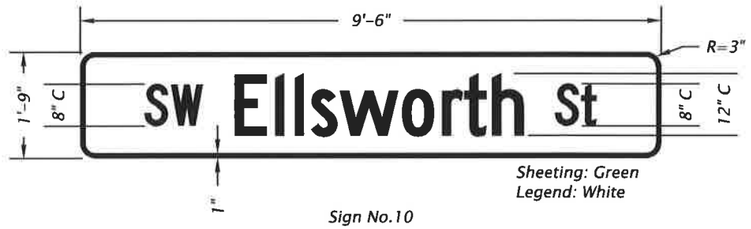
SIGNING NOTES:

1. Signs shall conform to the requirements of the current version of the Manual of Uniform Traffic Control Devices (MUTCD) and the ODOT Sign Policy Guidelines, current edition.
2. Street name signs shall be constructed of sheet aluminum substrate per Section 02910.10 of the Oregon Standard Specifications for Construction.
3. Street name sign sheeting and legend materials shall conform to Sections 02910.20, 02910.33 and 02910.60 of the Oregon Standard Specifications for Construction.
4. Overhead signs shall use Type IX sheeting.

SIGNING LEGEND

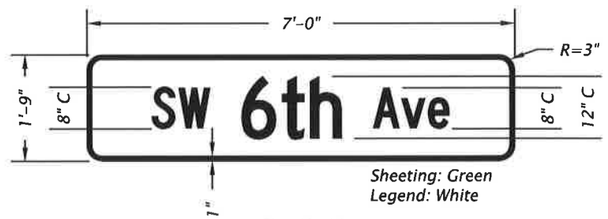
N	Install new sign (N)
EXN	Maintain and protect existing sign (N) and support
RXN / M	Remove existing sign (N) and (M) sign support
RXN	Remove existing sign (N)
SP	See Signal Plans

N = Sign Number
M = Material
Material options:
W = Wood Post
P = Round Pipe Support
SP = Signal Pole Mount



Sheeting: Green
Legend: White

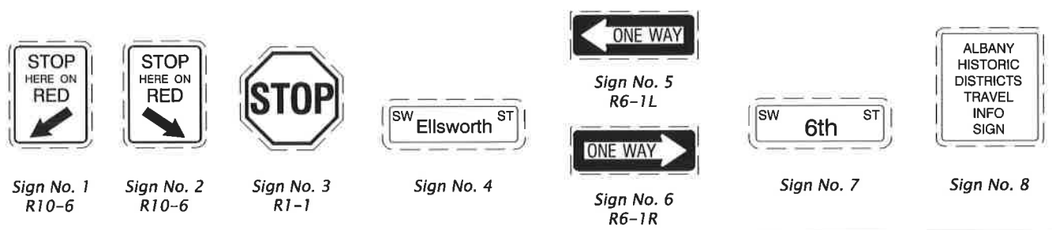
Sign No.10



Sheeting: Green
Legend: White

Sign No.11

NOTE:
SIGNS WITH DASHED BORDER ARE EXISTING SIGNS.



Sign No. 1 R10-6 | Sign No. 2 R10-6 | Sign No. 3 R1-1 | Sign No. 4 | Sign No. 5 R6-1L | Sign No. 6 R6-1R | Sign No. 7 | Sign No. 8 | Sign No. 9 W11-2 | Sign No. 9a W16-9p | Sign No. 12 W3-3

REGISTERED PROFESSIONAL ENGINEER
81209PE
OREGON
MARCH 11, 2008
SARAH ANN HELLER
EXPIRES 6.30.2019

DAVID EVANS AND ASSOCIATES INC.
530 Center Street N.E., Suite 605
Salem Oregon 97301
Phone: 503.361.8635

SW ELLSWORTH STREET/SW 6TH AVENUE INTERSECTION SIGNAL DESIGN (TS-18-01)

SW ELLSWORTH STREET (US 20)
LINN COUNTY

Designer: S. HELLER | Reviewer: J. CLARK
Drafter: R. BERGER | Checker: C. GRILE

PERMANENT SIGNING & PAVEMENT MARKING PLAN | SHEET NO. LA01

SIGNAL LEGEND
SW ELLSWORTH STREET (US 20) AT SW 6TH AVENUE
ALBANY-CORVALLIS HWY. AT M.P. 10.83
(ALBANY)

LEGEND

CONTROLLERS

- 332S — Install a model 332S cabinet & control equipment with riser frame, orient louvered door as shown
- DIN / C — Install communications bracket for copper. Use only Green Sheet listed systems
- NET / S — Install RuggedCom RX1500 router part number RX1500-L3-RM-HI-L3SEC-6TX01-FG50-W21-C01.
- C / ATC — Install model Intelight VCT-2070LDX-7A ATC controller in model 332S cabinet
- RX / C — Remove existing controller cabinet & equipment

POLES

- SM / T — Install (T=type) standard traffic signal mast arm pole (See "Pole Entrance Chart")
- MA / L — Install (L=length) foot traffic signal mast arm
- PP — Install pedestrian signal pedestal with frangible base
- PS — Install pushbutton post
- EX / WP — Retain and protect existing wood pole
- RX / MP — Remove existing traffic signal mast arm pole & terminal cabinet
- RX / WP — Remove existing wood pole
- RX / FND — Remove existing foundation

SIGNALS

- V / Ph — Install (Ph=phase) vehicle signal with 2" fluorescent yellow reflective sheeting on backboard per Std. Dwg. TM460
- C / Ph — Install phase (Ph=phase) countdown pedestrian signal with clamshell mount
- A / Ph — Install phase (Ph=phase) audible pedestrian pushbutton with mount
- C/A / Ph — Install phase (Ph=phase) countdown pedestrian signal with clamshell mount and audible pedestrian pushbutton with mount.
- RX / V — Remove existing vehicle signal

CABINETS

- BMC — Install base mounted service cabinet, 120/240 volt metered, for signal system
- RTC — Install recessed terminal cabinet. (See details, sheets MB07 and MB08)
- RX / MS — Remove existing meter base

SIGNS

- AL / TL — Install aluminum (30"x36", type "W7") "ONE WAY" left arrow sign. (R6-2L)
- AL / TR — Install aluminum (30"x36", type "W7") "ONE WAY" right arrow sign. (R6-2R)
- AL / SNS — Install aluminum street name sign (See signing plan for details)
- RX / AL — Remove existing aluminum sign and mount

JUNCTION BOXES

- JB / 1 — Install 17"x10"x12" (min. dimension) precast concrete junction box
- JB / 2 — Install 22"x12"x12" (min. dimension) precast concrete junction box
- JB / 3/T — Install tandem 30"x17"x12" (min. dimension) precast concrete junction boxes (See TM472 for details)
- JB / SP — Junction box (See Signal Plan)
- JB / IP — Junction box (See Interconnect Plan)
- EX / JB — Retain and protect existing junction box
- RX / JB — Remove existing junction box

DETECTION

- PhT / X — Install Phase (Ph=Phase) detection zone on radar (T=Radar) with MaxTime detector number (X=Number)
- R-F / T — Install far-range radar detector unit (T=Radar)
- R-N / T — Install near-range radar detector unit (T=Radar)

WIRES & CABLES

- N | G — Install (N=number) No. (G=AWG wire size) XHHW wires
- N / P — Install (N=number) twisted pair PE-39 (gel filled) interconnect cable
- X-N / G — Install (X=number of cables) control cable(s) with (N=number) (G= AWG wire size) AWG conductors
- RCC / T — Install radar control cable (T=Radar)
- RX / W — Remove existing wiring
- RX / 39 — Remove existing messenger cable

CONDUIT

- S — Install (S=size) inch conduit
- DC — Detector conduit (See Detector Plan)
- EC — Electrical conduit (See Signal Plan)
- HDD — Install conduit by horizontal directional drilling, open trench not allowed
- IC — Interconnect conduit (See Interconnect Plan)
- W — Install 3" electrical conduit and wire as required by power company
- S / EX / C — Retain and protect existing (S=size) inch conduit
- AX / C — Abandon existing conduit
- DC / IC — Shared detector and interconnect conduit (See Detector Plan and Interconnect Plan)

FIRE PREEMPTION

- FN / Ch — Install channel (Ch=channel), (N=number) barrel fire preemption detector unit
- FF / Ch — Install channel (Ch=channel) fire preemption detector feeder cable
- RX / FD — Remove existing fire preemption detector unit

ODOT Traffic Section Approval

REGISTERED PROFESSIONAL ENGINEER
81209PE
OREGON
MARCH 11, 2008
SARAH ANN HELLER
EXPIRES 6.30.2019

DAVID EVANS AND ASSOCIATES INC.
530 Center Street N.E., Suite 605
Salem Oregon 97301
Phone: 503.361.8635

HWY: 031	
M.P.: 10.83	
TRS	19861
DFI/TSSU NO.	04051

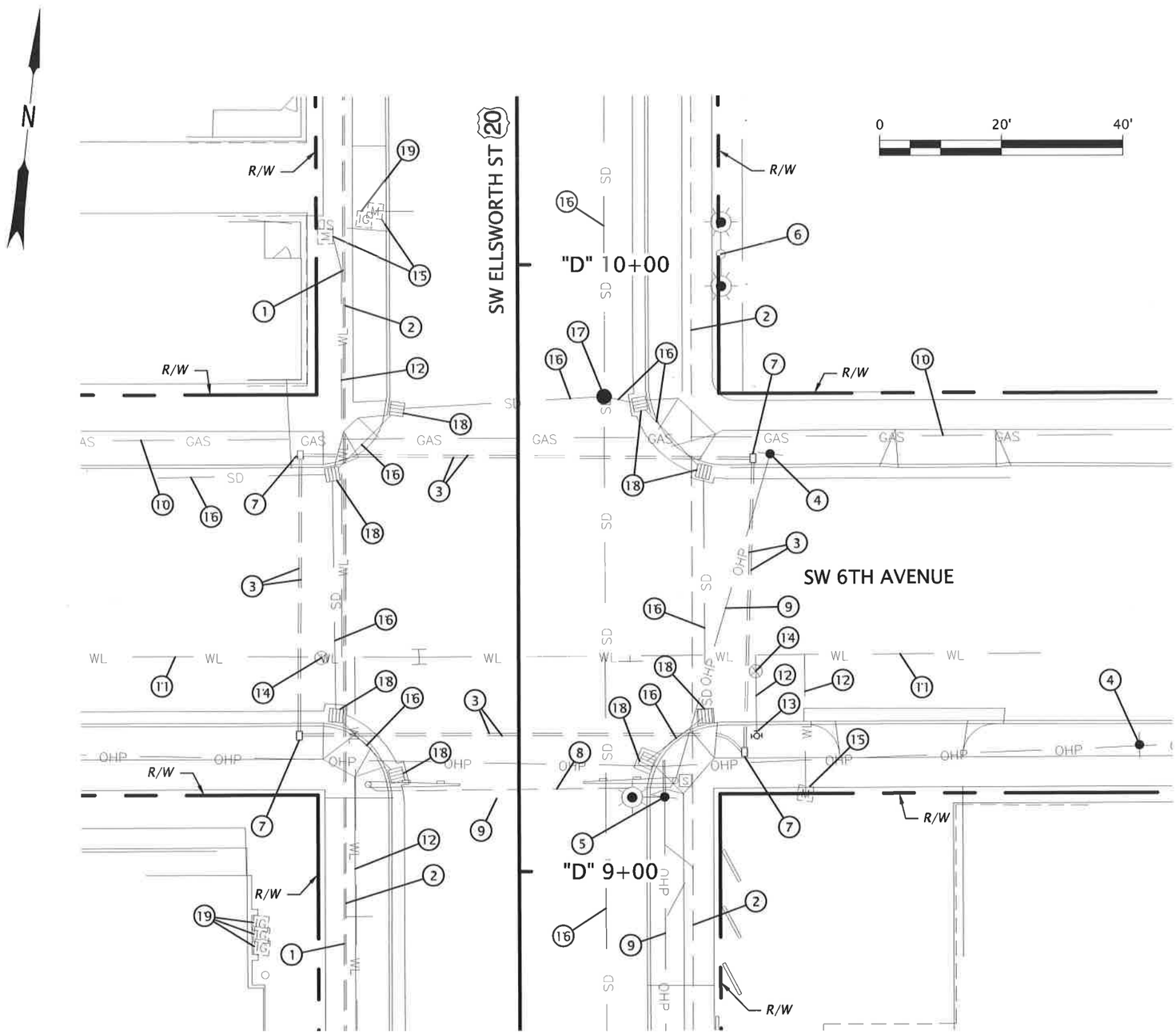
SW ELLSWORTH STREET/SW 6TH AVENUE INTERSECTION SIGNAL DESIGN (TS-18-01)

SW ELLSWORTH STREET (US 20)
LINN COUNTY

Designer: S. HELLER	Reviewer: J. CLARK
Drafter: R. BERGER	Checker: C. GRILE

LEGEND — SHEET NO. MA01

EXISTING UTILITIES
SW ELLSWORTH STREET (US 20) AT SW 6TH AVENUE
ALBANY-CORVALLIS HWY. AT M.P. 10.83
(ALBANY)



1. Existing 1½" interconnect conduit
2. Existing 2" electrical conduit (illumination)
3. Existing 2" spare conduits - 2
4. Existing wood pole
5. Existing wood pole with luminaire
6. Existing metal pole with two luminaires
7. Existing junction box
8. Existing electrical conduit (signal)
9. Existing overhead electrical line
10. Existing natural gas line
11. Existing water mainline
12. Existing water service line
13. Existing fire hydrant
14. Existing water valve
15. Existing water meter
16. Existing storm drain line
17. Existing storm manhole
18. Existing catch basin
19. Existing irrigation meter

Note:
Energized power lines overhang portions of the work with a minimum vertical clearance of 38 feet. The Contractor shall maintain at least 10 feet of safety clearance. Exceptions require written approval from the Power Supplier(s) and may require an On-site Safety Watcher, at no cost to the Contractor. The Contractor shall provide the Engineer a copy of the written approval of exception before beginning work.

ODOT Traffic Section Approval

HWY: 031
M.P.: 10.83

TRS
19862

DFI/TSSU NO.
04051

REGISTERED PROFESSIONAL ENGINEER
81209PE
OREGON
MARCH 11, 2008
SARAH ANN HELLER
EXPIRES 6.30.2019

DAVID EVANS AND ASSOCIATES INC.
530 Center Street N.E., Suite 605
Salem Oregon 97301
Phone: 503.361.8635

SW ELLSWORTH STREET/SW 6TH AVENUE INTERSECTION SIGNAL DESIGN (TS-18-01)

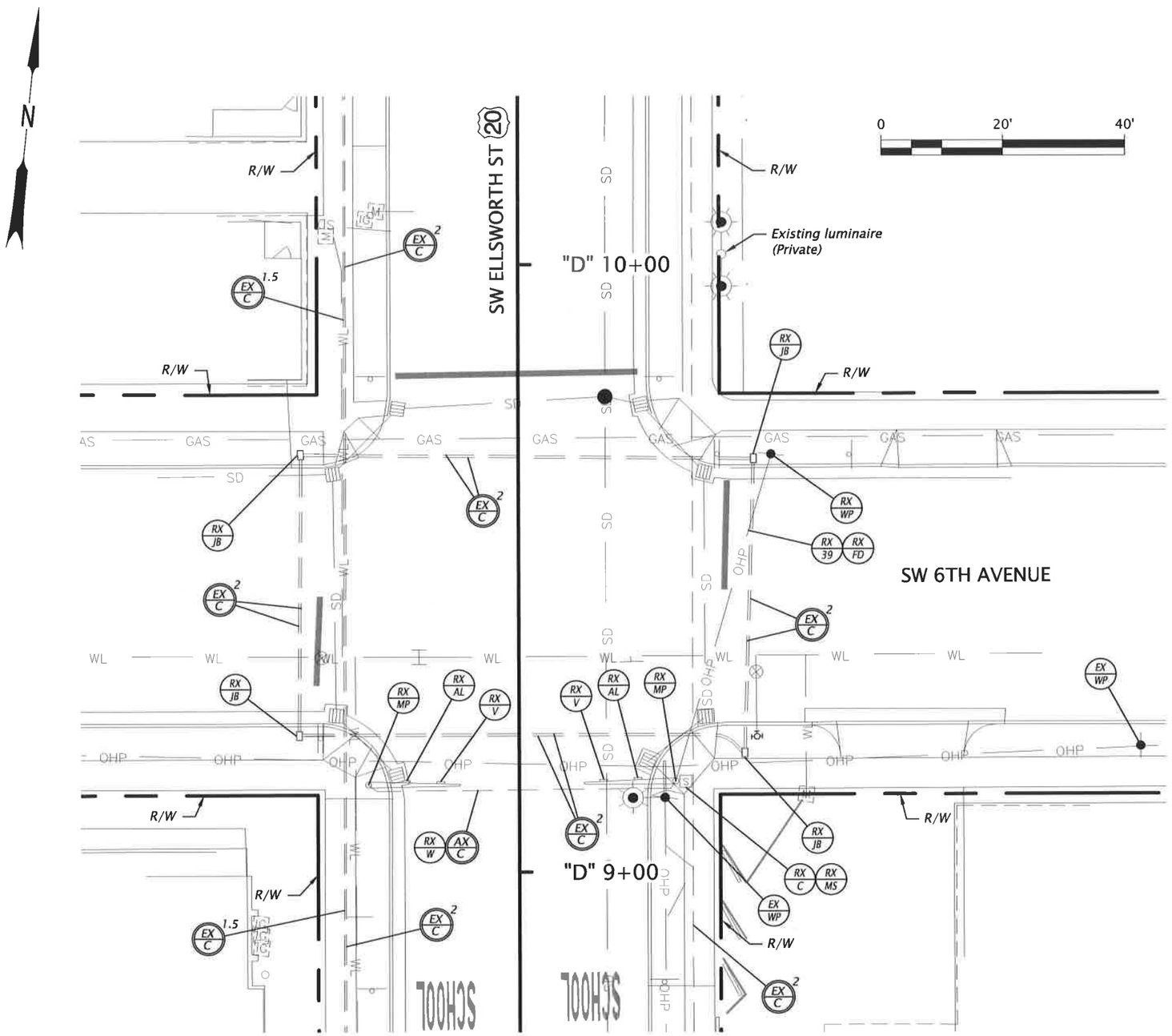
SW ELLSWORTH STREET (US 20)
LINN COUNTY

Designer: S. HELLER | Reviewer: J. CLARK
Drafter: R. BERGER | Checker: C. GRILE

EXISTING UTILITIES

SHEET NO.
MB01

REMOVAL PLAN
SW ELLSWORTH STREET (US 20) AT SW 6TH AVENUE
ALBANY-CORVALLIS HWY. AT M.P. 10.83
(ALBANY)



NOTE:
See T.R.S. Dwg. 19861 for Legend

NOTE:
See T.R.S. Dwg. 19864 Thru 19865 for Signal and Detector Plans

ODOT Traffic Section Approval

HWY: 031	
M.P.: 10.83	
TRS	19863
DFI/TSSU NO.	04051

REGISTERED PROFESSIONAL ENGINEER
81209PE
OREGON
MARCH 11, 2008
SARAH ANN HELLER
EXPIRES 6.30.2019

DAVID EVANS AND ASSOCIATES INC.
530 Center Street N.E., Suite 605
Salem Oregon 97301
Phone: 503.361.8635

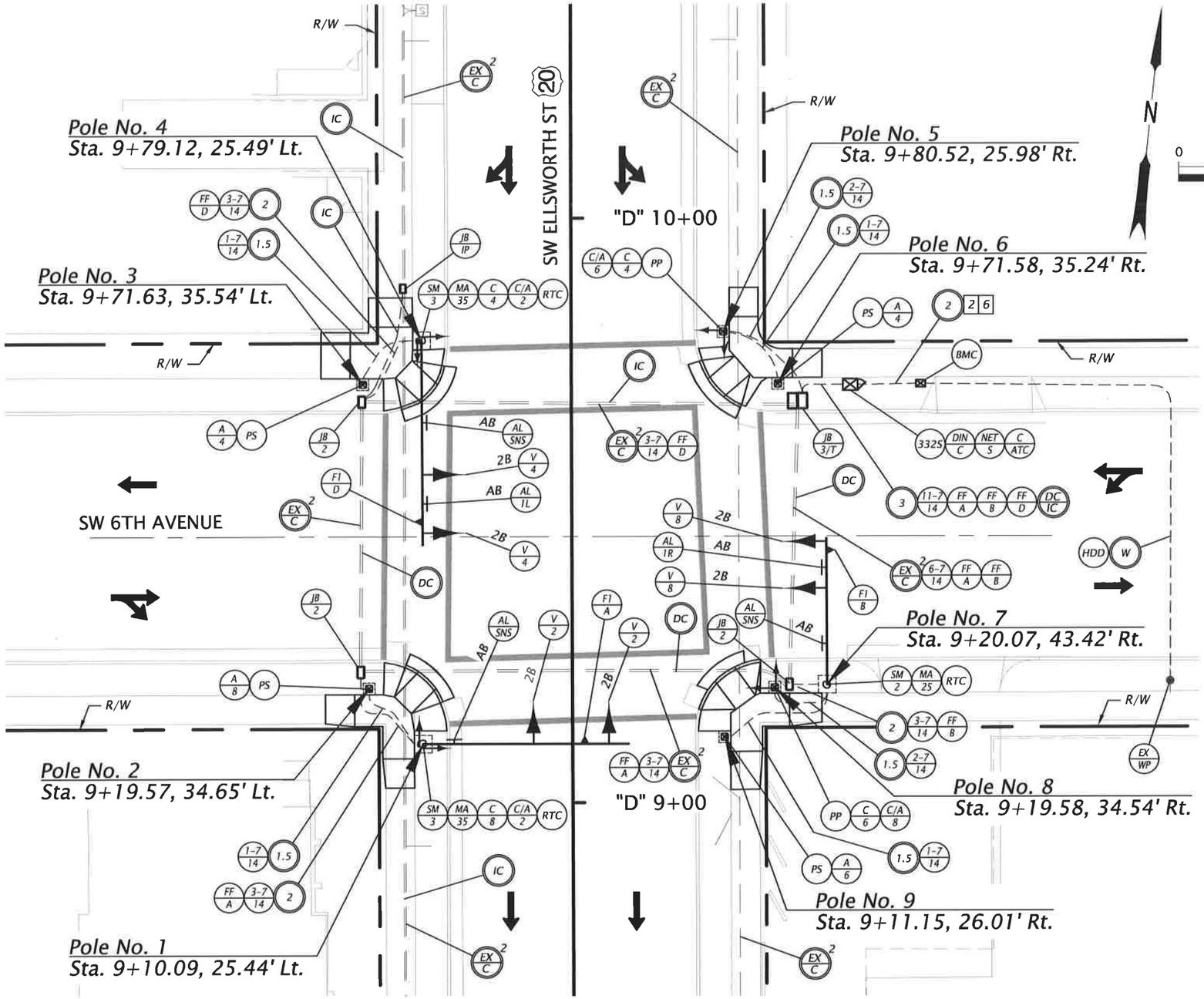
SW ELLSWORTH STREET/SW 6TH AVENUE INTERSECTION SIGNAL DESIGN (TS-18-01)

SW ELLSWORTH STREET (US 20)
LINN COUNTY

Designer: S. HELLER	Reviewer: J. CLARK
Drafter: R. BERGER	Checker: C. GRILE

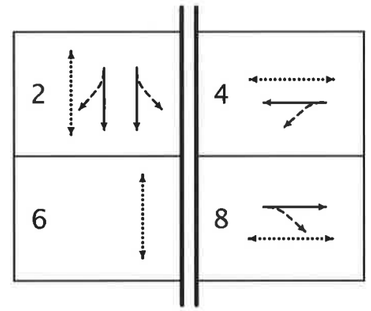
REMOVAL PLAN — SHEET NO. MB02

SIGNAL PLAN
SW ELLSWORTH STREET (US 20) AT SW 6TH AVENUE
ALBANY–CORVALLIS HWY. AT M.P. 10.83
(ALBANY)

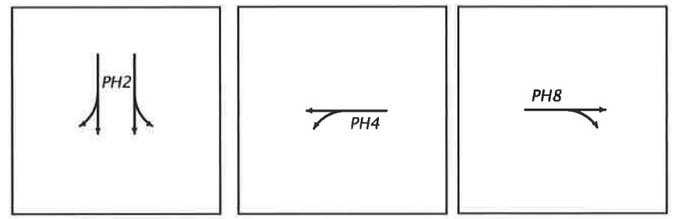


N

0 20' 40'



NORMAL PHASE ROTATION



FIRE PREEMPTION

Note:
Maintain existing vertical clearance of 18'–10" to the bottom of new signal heads.

NOTE:
See T.R.S. Dwg. 19861 for Legend

NOTE:
See T.R.S. Dwg. 19865 Thru 19866 for Interconnect and Detector Plans

"UTILITIES NOT SHOWN"
See Existing Utilities Sheet

ODOT Traffic Section Approval

HWY: 031
M.P.: 10.83
TRS 19864
DFI/TSSU NO. 04051

REGISTERED PROFESSIONAL ENGINEER
81209PE
OREGON
MARCH 11, 2008
SARAH ANN HELLER
EXPIRES 6-30-2019

DAVID EVANS AND ASSOCIATES INC.
530 Center Street N.E., Suite 605
Salem Oregon 97301
Phone: 503.361.8635

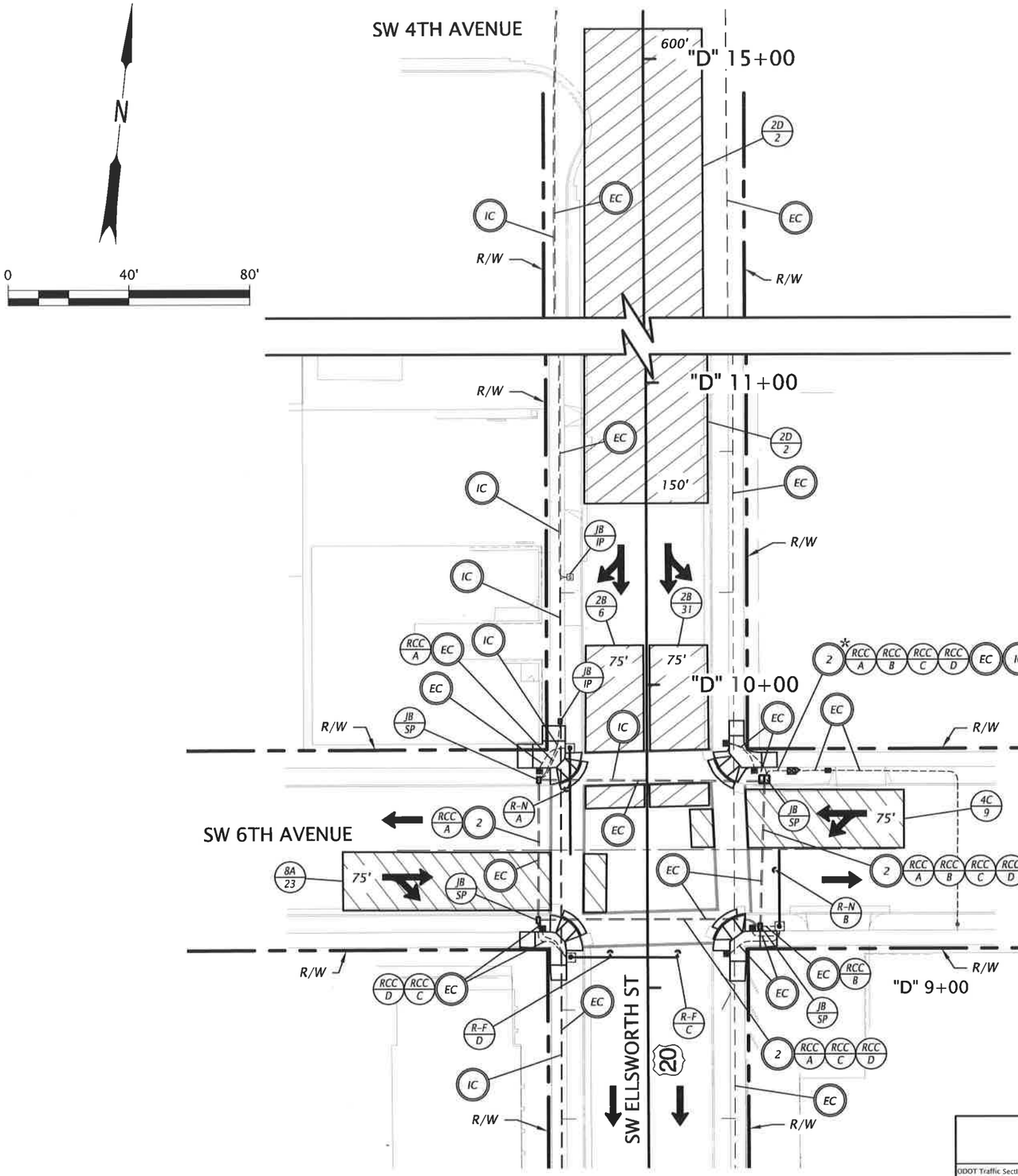
SW ELLSWORTH STREET/SW 6TH AVENUE INTERSECTION SIGNAL DESIGN (TS-18-01)

SW ELLSWORTH STREET (US 20)
LINN COUNTY

Designer: S. HELLER | Reviewer: J. CLARK
Drafter: R. BERGER | Checker: C. GRILE

SIGNAL PLAN | SHEET NO. MB03

DETECTOR PLAN
SW ELLSWORTH STREET (US 20) AT SW 6TH AVENUE
ALBANY-CORVALLIS HWY. AT M.P. 10.83
(ALBANY)



Detection Layout Diagram

1	2	3	4	5	6	7	8	9	10	"I" File Slot
		RADAR: D	RADAR: B	RADAR: B			RADAR: C			Device
		150'-600'	0'-75'	0'-75'			0'-75'			Distance in feet
___	___	ϕ2-D MT 2	ϕ2-B MT 6	ϕ2-B MT 31	___	___	ϕ4-C MT 9	___	___	Phase - Detector unit / MaxTime Detector #
										MaxTime Detector # / Phase - Detector unit
										Distance in feet

1	2	3	4	5	6	7	8	9	10	"J" File Slot
							RADAR: A			Device
							0'-75'			Distance in feet
___	___	___	___	___	___	___	ϕ8-A MT 23	___	___	Phase - Detector unit / MaxTime Detector #
										MaxTime Detector # / Phase - Detector unit
										Distance in feet

DEVICE:
Radar = Radar Detector Cards

Detection zone for radar detection

NOTES

✲ = 2 Inch shared conduit for detection and interconnect

1. Contact ODOT Region 2 Traffic to assist with configuration of the radar detection.
2. Contact Region 2 Signal Operations Engineer for field orientation, placement and programming of radar.

NOTE:
See T.R.S. Dwg. 19861 for Legend

NOTE:
See T.R.S. Dwg. 19864 Thru 19866 for Signal and Interconnect Plans

"UTILITIES NOT SHOWN"
See Existing Utilities Sheet

ODOT Traffic Section Approval

HWY: 031
M.P.: 10.83
TRS 19865
DFI/TSSU NO. 04051

REGISTERED PROFESSIONAL ENGINEER
81209PE
OREGON
MARCH 11, 2008
SARAH ANN HELLER
EXPIRES 6.30.2019

DAVID EVANS AND ASSOCIATES INC.
530 Center Street N.E., Suite 605
Salem Oregon 97301
Phone: 503.361.8635

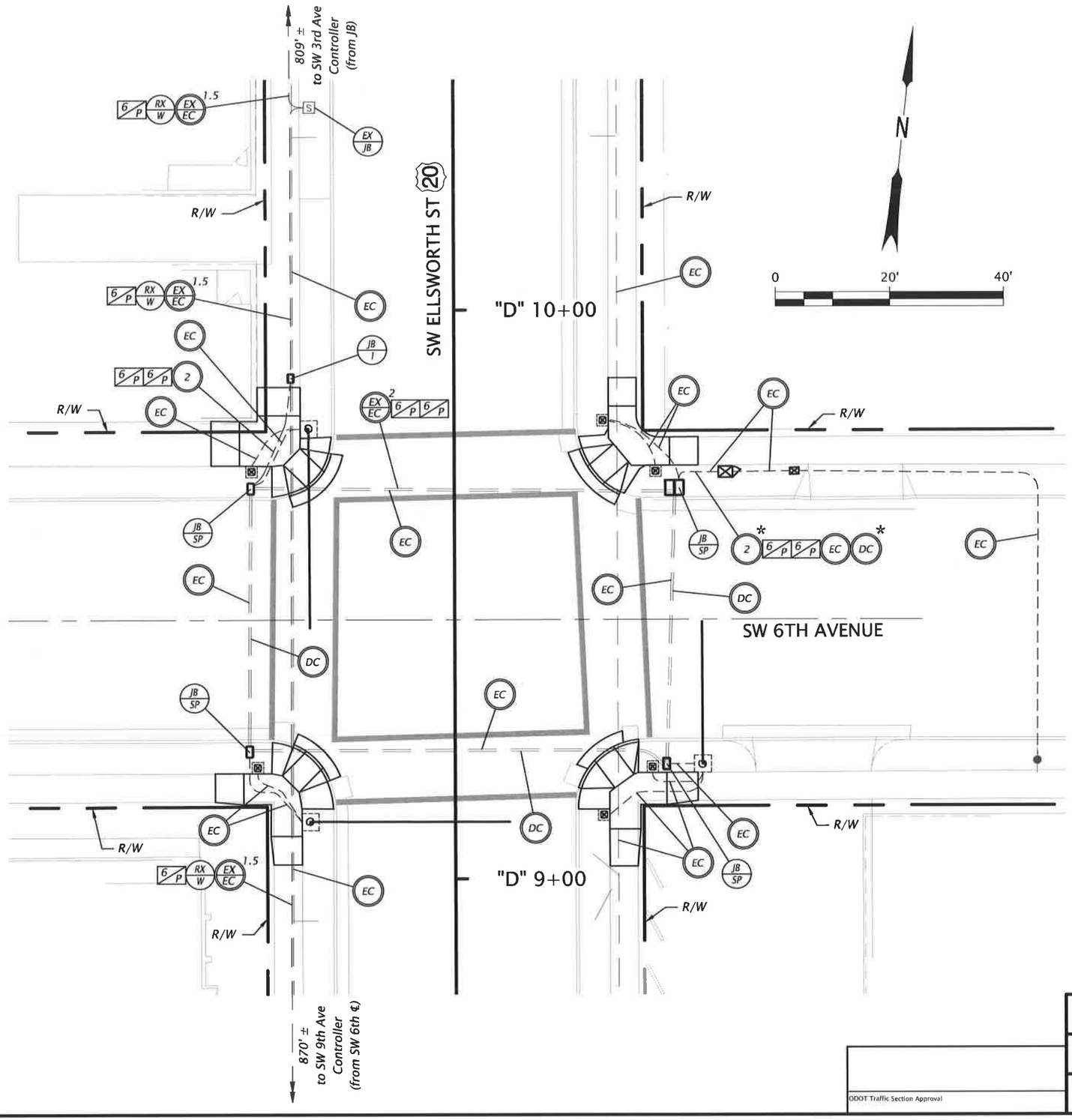
SW ELLSWORTH STREET/SW 6TH AVENUE INTERSECTION SIGNAL DESIGN (TS-18-01)

SW ELLSWORTH STREET (US 20)
LINN COUNTY

Designer: S. HELLER | Reviewer: J. CLARK
Drafter: R. BERGER | Checker: C. GRILE

DETECTOR PLAN | SHEET NO. MB04

INTERCONNECT PLAN
SW ELLSWORTH STREET (US 20) AT SW 6TH AVENUE
ALBANY-CORVALLIS HWY. AT M.P. 10.83
(ALBANY)



NOTES

1. *Existing 1½" conduit runs from controller at SW Ellsworth Street/SW 9th Avenue intersection to controller at SW Ellsworth Street/SW 3rd Avenue intersection, with junction boxes located approximately every 300 feet.*
2. *Intercept existing 1½" conduit and wiring, and install JB-1 junction box. Location of existing conduit as shown is approximate.*
3. *Remove existing 6pr wiring between the controller at SW Ellsworth Street/SW 9th Avenue and the controller at SW Ellsworth Street/SW 3rd Avenue. Install new wiring between these two controllers as shown.*

NOTE

* = 2 Inch shared conduit for detection and interconnect

NOTE:
See T.R.S. Dwg. 19861 for Legend

NOTE:
See T.R.S. Dwg. 19864 Thru 19865 for Signal and Detector Plans

"UTILITIES NOT SHOWN"
See Existing Utilities Sheet

ODOT Traffic Section Approval

HWY: 031
M.P.: 10.83
TRS
19866
DFI/TSSU NO.
04051

REGISTERED PROFESSIONAL ENGINEER
81209PE
OREGON
MARCH 11, 2008
SARAH ANN HELLER
EXPIRES 6·30·2019

DAVID EVANS AND ASSOCIATES INC.
530 Center Street N.E., Suite 605
Salem Oregon 97301
Phone: 503.361.8635

SW ELLSWORTH STREET/SW 6TH AVENUE INTERSECTION SIGNAL DESIGN (TS-18-01)

SW ELLSWORTH STREET (US 20)
LINN COUNTY

Designer: S. HELLER | Reviewer: J. CLARK
Drafter: R. BERGER | Checker: C. GRILE

INTERCONNECT PLAN | SHEET NO. MB05

POLE TABLE
SW ELLSWORTH STREET (US 20) AT SW 6TH AVENUE
ALBANY-CORVALLIS HWY. AT M.P. 10.83
(ALBANY)

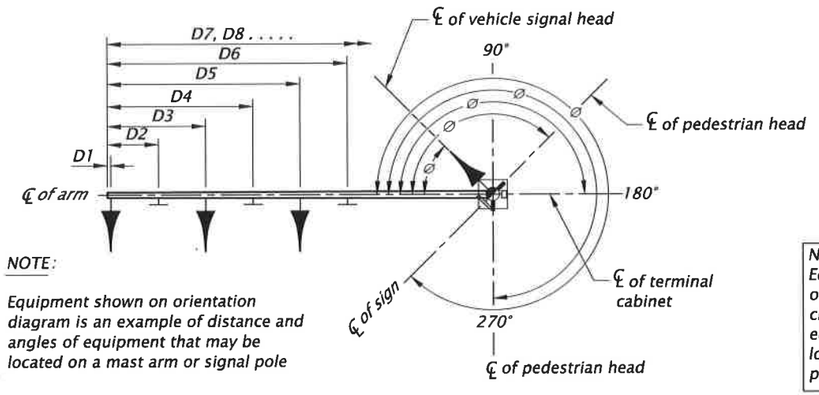
POLE ENTRANCE CHART

		See TM650 thru TM653	EQUIPMENT ON POLE						EQUIPMENT ON MAST ARM (Length in Feet and Equipment Type)									FOUNDATION INFORMATION (See Std. Drg. TM653)		LUMINAIRES					MISC. EQUIP.
POLE NO.	DWG. NO.	TYPE	PED. SIGNAL DEG.	PED. PUSHBUTTON DEG.	TERM. CABINET DEG.	SIGN DEG.	TRAFFIC SIGNAL DEG.	PHOTO ELECTRIC CELL	ARM LENGTH	D 1	D 2	D 3	D 4	D 5	D 6	D 7	D 8	FNDTN. NUMBER	REQUIRED FOUNDATION DEPTH	ARM LENGTH	ARM DEG.	MOUNTING HEIGHT	FIXTURE TYPE	WATTAGE	ON ARM
1	MB03	SM3	90 & 180	180	180				35	0.0 RDU	3.0 V2	7.5 F	16.0 V2	22.0 RDU	30.0 SNS			3	12'-0"						
2	MB03	PS		175																					
3	MB03	PS		355																					
4	MB03	SM3	90 & 180	90	180				35	2.0 V2	4.0 F	7.0 SA	12.0 V2	21.0 SNS	22.5 RDU			3	12'-0"						
5	MB03	PP	85 & 355	175																					
6	MB03	PS		355																					
7	MB03	SM2			180				25	0.5 V2	2.0 F	5.0 SA	7.0 RDU	8.5 V2	18.0 SNS			2	12'-0"						
8	MB03	PP	85 & 175	175																					
9	MB03	PS		85																					

Final geotech report by Foundation Engineering, Inc. dated December 2017

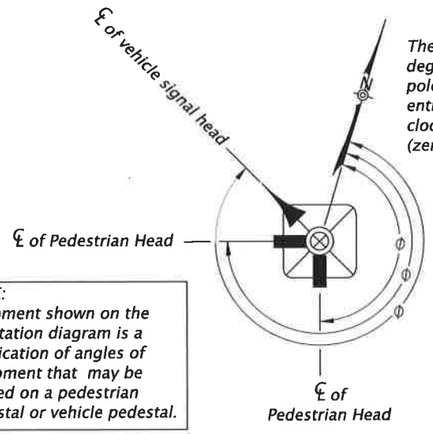
BRACKET MOUNT
V2 = Traffic signal, Type 2, adjustable bracket mount (See dwg. TM462)
SA = Sign, 24" x 30" aluminum w/ adjustable bracket mount (See dwg. TM465)
SNS = Street name sign

MISC ITEMS
F = Fire preemption
RDU = Radar detection unit



NOTE:
Equipment shown on orientation diagram is an example of distance and angles of equipment that may be located on a mast arm or signal pole

MAST ARM POLE ORIENTATION DIAGRAM



NOTE:
Equipment shown on the orientation diagram is a clarification of angles of equipment that may be located on a pedestrian pedestal or vehicle pedestal.

The north arrow shown relates to zero degrees on Pedestrian and Vehicle signal poles. Degrees shown in the pole entrance chart show the degrees clockwise from plan sheet north arrow (zero) to equipment located on the pole.

PEDESTRIAN PEDESTAL / VEHICLE PEDESTAL ORIENTATION DIAGRAM

ODOT Traffic Section Approval

HWY: 031
M.P.: 10.83
TRS 19867
DFI/TSSU NO. 04051

REGISTERED PROFESSIONAL ENGINEER
81209PE
OREGON
MARCH 11, 2008
SARAH ANN HELLER
EXPIRES 6.30.2019

DAVID EVANS AND ASSOCIATES INC.
530 Center Street N.E., Suite 605
Salem Oregon 97301
Phone: 503.361.8635

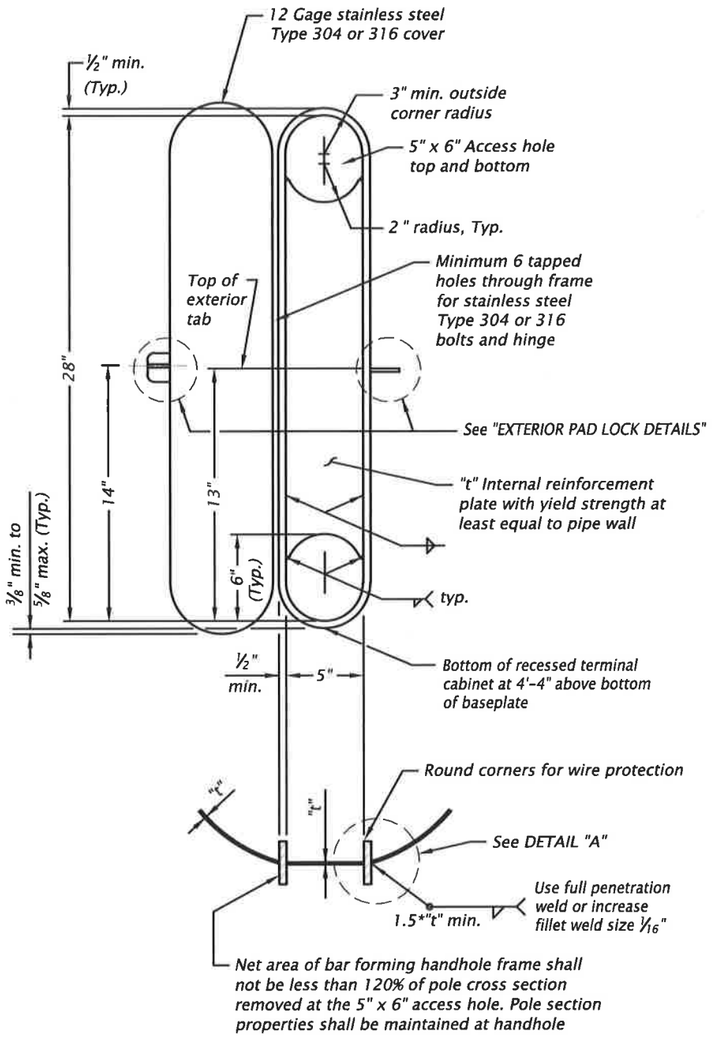
SW ELLSWORTH STREET/SW 6TH AVENUE INTERSECTION SIGNAL DESIGN (TS-18-01)

SW ELLSWORTH STREET (US 20)
LINN COUNTY

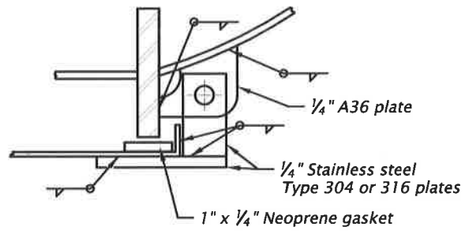
Designer: S. HELLER | Reviewer: J. CLARK
Drafter: R. BERGER | Checker: C. GRILE

POLE TABLE | SHEET NO. MB06

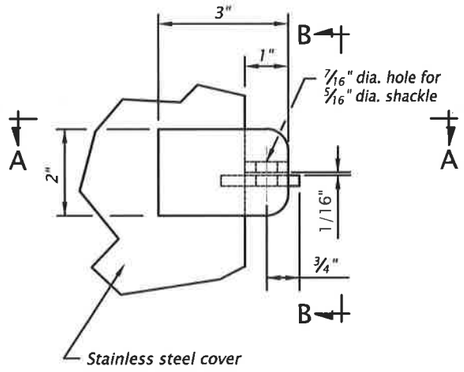
SIGNAL DETAILS
SW ELLSWORTH STREET (US 20) AT SW 6TH AVENUE
ALBANY-CORVALLIS HWY. AT M.P. 10.83
(ALBANY)



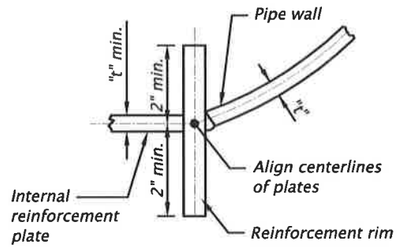
RECESSED TERMINAL CABINET DETAIL
NO SCALE



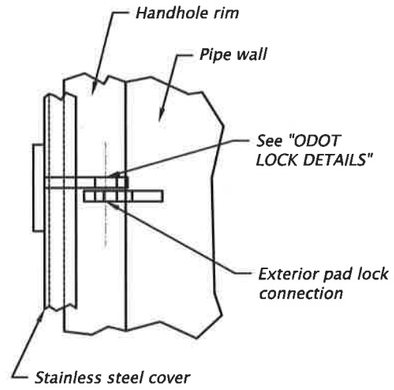
SECTION A-A
NO SCALE



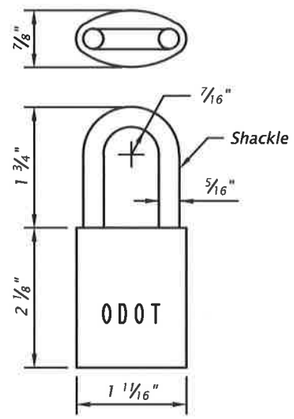
EXTERIOR PAD LOCK DETAILS
NO SCALE



DETAIL "A"
NO SCALE



SECTION B-B
NO SCALE



ODOT LOCK DETAILS
NO SCALE
(ODOT supplied post construction)

ODOT Traffic Section Approval

HWY: 031	
M.P.: 10.83	
TRS	19868
DFI/TSSU NO.	04051

REGISTERED PROFESSIONAL ENGINEER
81209PE
OREGON
MARCH 11, 2008
SARAH ANN HELLER
EXPIRES 6-30-2019

DAVID EVANS AND ASSOCIATES INC.
530 Center Street N.E., Suite 605
Salem Oregon 97301
Phone: 503.361.8635

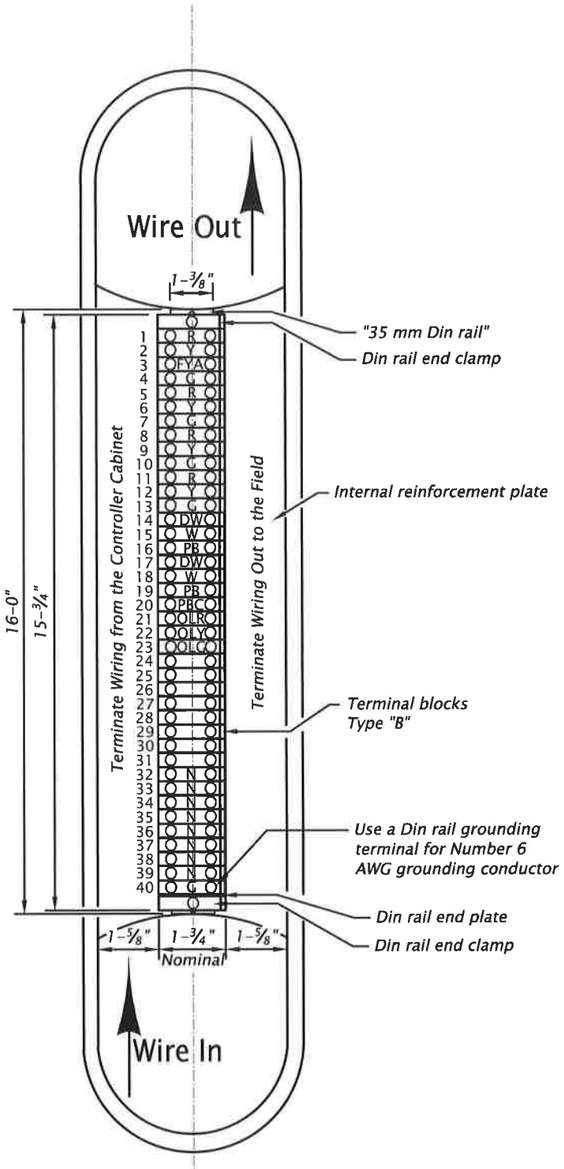
SW ELLSWORTH STREET/SW 6TH AVENUE INTERSECTION SIGNAL DESIGN (TS-18-01)

SW ELLSWORTH STREET (US 20)
LINN COUNTY

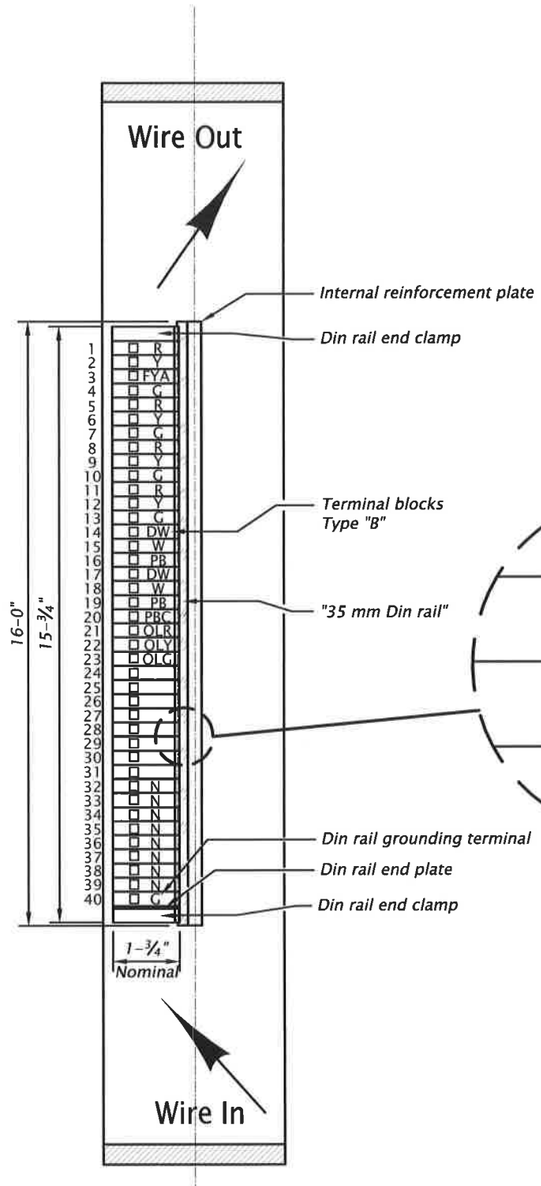
Designer: S. HELLER	Reviewer: J. CLARK
Drafter: R. BERGER	Checker: C. GRILE

DETAILS — SHEET NO. MB07

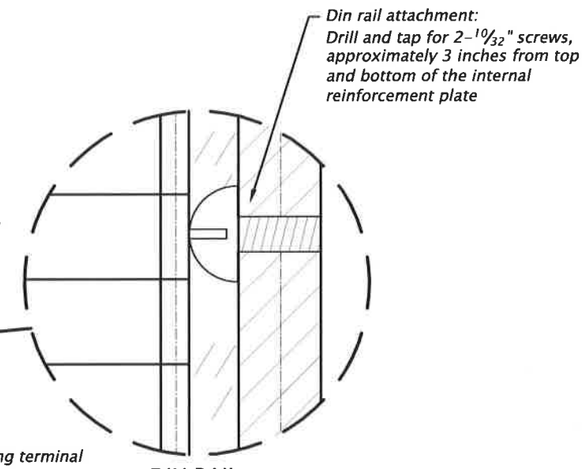
SIGNAL DETAILS
SW ELLSWORTH STREET (US 20) AT SW 6TH AVENUE
ALBANY-CORVALLIS HWY. AT M.P. 10.83
(ALBANY)



FRONT VIEW



SIDE VIEW
(CROSS SECTION)



DIN RAIL
MOUNTING DETAIL

NOTE

1. *See detail, sheet MB07 for Integrated Terminal Cabinet dimensions.*

TERMINAL BLOCK "B" DETAIL

NO SCALE

HWY: 031	
M.P.: 10.83	
TRS	19869
DF/TSSU NO.	04051

ODOT Traffic Section Approval

REGISTERED PROFESSIONAL ENGINEER
81209PE
OREGON
MARCH 11, 2008
SARAH ANN HELLER
EXPIRES 6-30-2019

DAVID EVANS AND ASSOCIATES INC.
530 Center Street N.E., Suite 605
Salem Oregon 97301
Phone: 503.361.8635

SW ELLSWORTH STREET/SW 6TH AVENUE INTERSECTION SIGNAL DESIGN (TS-18-01)

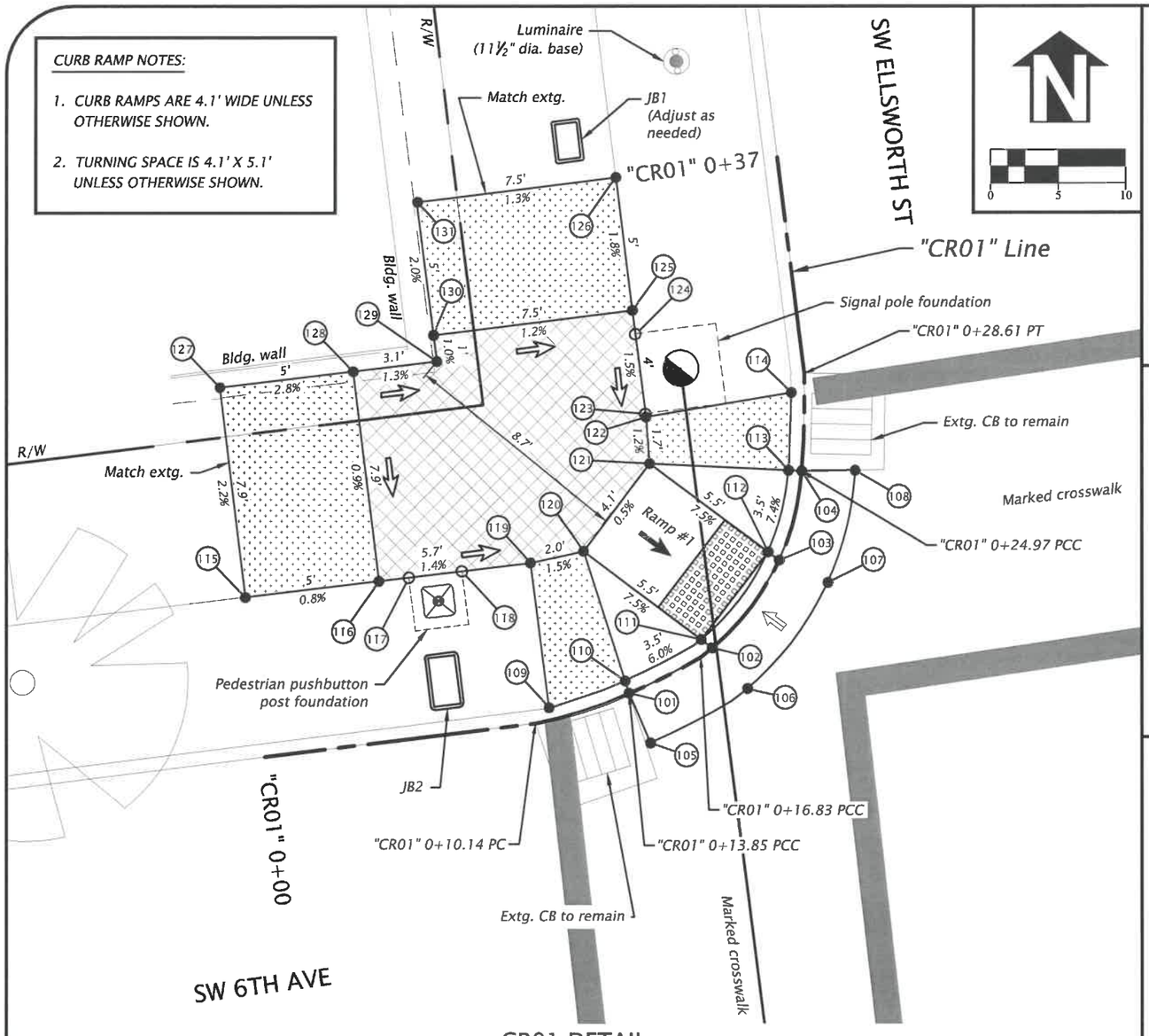
SW ELLSWORTH STREET (US 20)
LINN COUNTY

Designer: S. HELLER	Reviewer: J. CLARK
Drafter: R. BERGER	Checker: C. GRILE

DETAILS — SHEET NO. MB08

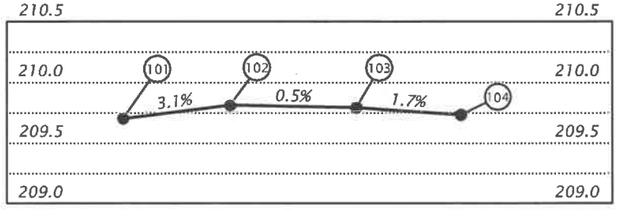
CURB RAMP NOTES:

1. CURB RAMPS ARE 4.1' WIDE UNLESS OTHERWISE SHOWN.
2. TURNING SPACE IS 4.1' X 5.1' UNLESS OTHERWISE SHOWN.



CR01 DETAIL

SCALE: 1" = 5'



CR01 PROFILE

SCALE: 1" = 5'

DESIGN EXCEPTION CONTROL: D2-50-03
LRM: 03100100
MP: 10.83
CORNER POSITION: 1
RAMP NUMBER: 1

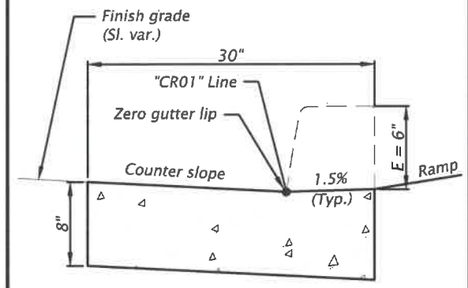
LEGEND

- Marked crossing location
- Sidewalk
- Turning Space (Min. level area 4' x 4') 4' x 5' when constrained, with longer dimension in the direction of ramp travel. For the purposes of this application, a max. 2.0% finished surface slope is considered level.
- Truncated dome detectable warning surface
- Slope 1.5% max. (Max. 2.0% finished surface slope)
- Slope 7.5% max. (Max. 8.3% finished surface slope)
- Counter slope at ramp 4.0% max. (Max. 5.0% finished surface slope) Slope measured perp. to curb
- 1## Station, offset, elev. point
- 1## Station, offset, elev. point (Signal foundation corner)

Note: Point numbers begin with the corner number

NOTES:

1. Slopes hold over elevations.
2. Maximum cross slope change on ramp is 0.5% per foot.
3. See standard drawings for details not shown.
4. See City of Albany Std. Dwg. No. 304 for curb details.
5. Extend transition panel limits to next concrete joint, as needed. Running slope shall be <5.0% with a panel warp rate ≤0.5%/ft.



CURB & GUTTER DETAIL

NO SCALE

Pnt #	Sta.	Off.	Elev.	Desc.	Pnt #	Sta.	Off.	Elev.	Desc.
101	0+13.85	0.00	209.70'	GUT	117	0+06.12	5.99	210.33'	FTG
102	0+17.39	0.00	209.81'	GUT	118	0+08.12	5.98	210.30'	FTG
103	0+21.52	0.00	209.79'	GUT	119	0+11.63	5.88	210.26'	SW
104	0+24.97	0.00	209.73'	GUT	120	0+14.56	5.56	210.23'	SW
105	0+13.82	2.00	209.79'	EOP	121	0+24.73	5.64	210.21'	SW
106	0+17.39	2.00	209.82'	EOP	122	0+26.84	5.87	210.23'	SW
107	0+21.52	2.00	209.80'	EOP	123	0+26.99	5.89	210.24'	FTG
108	0+25.14	2.00	209.84'	EOP	124	0+30.86	6.03	210.28'	FTG
109	0+10.78	0.49	210.27'	BOC	125	0+31.75	6.02	210.29'	SW
110	0+13.90	0.50	210.03'	BOC	126	0+36.75	6.02	210.38'	SW
111	0+17.27	0.50	209.82'	BOC	127	0+00.03	13.90	210.55'	SW
112	0+21.64	0.50	209.80'	BOC	128	0+05.03	13.88	210.41'	SW
113	0+24.96	0.50	210.06'	BOC	129	0+30.77	13.55	210.37'	SW
114	0+27.91	0.50	210.37'	BOC	130	0+31.76	13.55	210.38'	SW
115	0+00.00	6.01	210.38'	SW	131	0+08.16	19.85	210.48'	SW
116	0+05.00	5.99	210.34'	SW					

DESIGNED: R. BERGER
DRAWN: R. BERGER
CHECKED: C. CERKLEWSKI
DATE: 4/26/2018

REVISIONS

DATE:	NO:	BY:
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PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES

Albany

SW ELLSWORTH STREET / SW 6TH AVENUE
INTERSECTION SIGNAL DESIGN (TS-18-01)

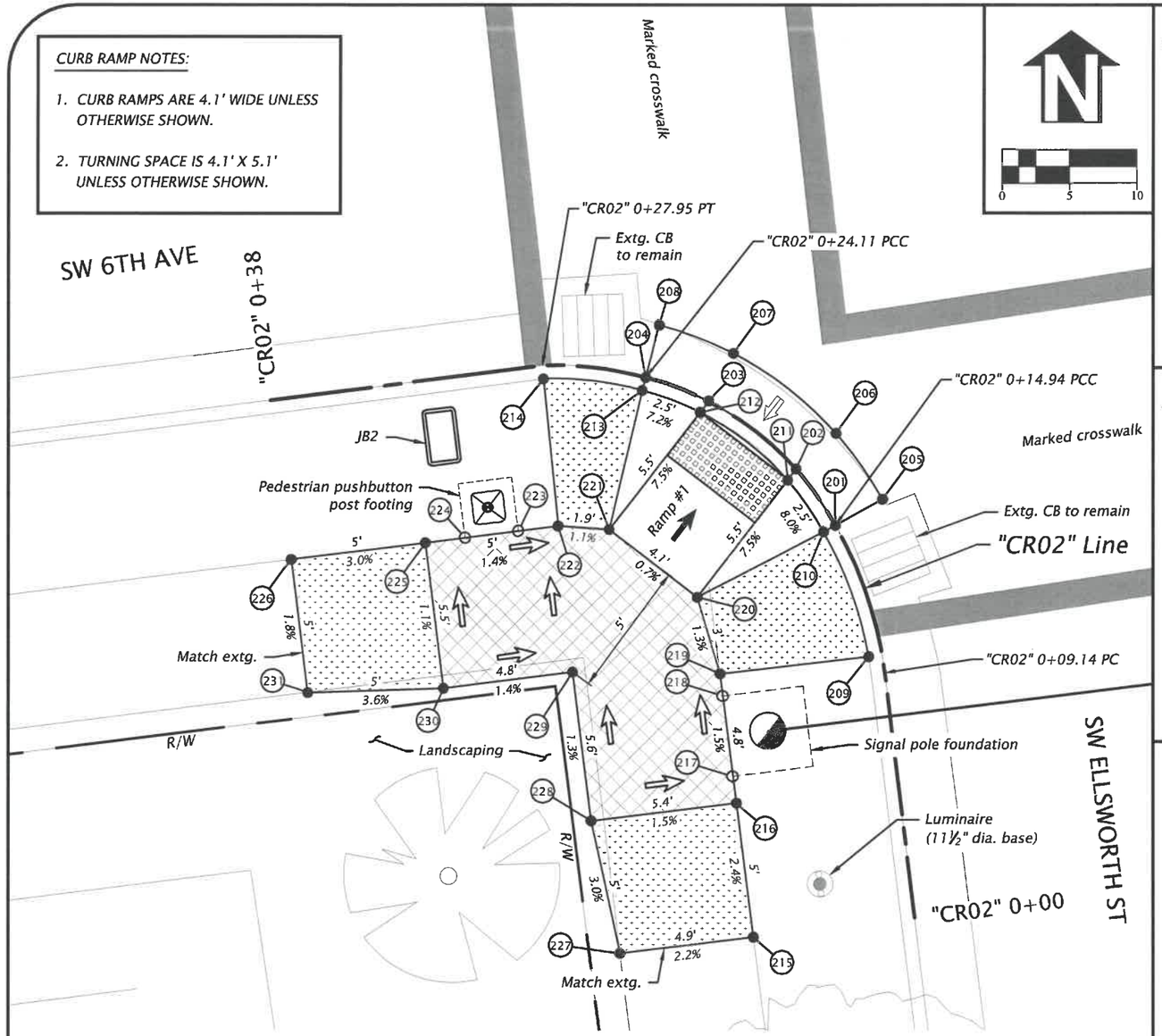
REGISTERED PROFESSIONAL ENGINEER
56,471PE
OREGON
JULY 9, 2002
CHRISTOPHER L. CERKLEWSKI

EXPIRATION DATE: 12/31/2019

SHEET NO. 1 OF 4
PROJECT NO: TS-18-01
FILE: CURB RAMPS Basesheet_DEA.DWG

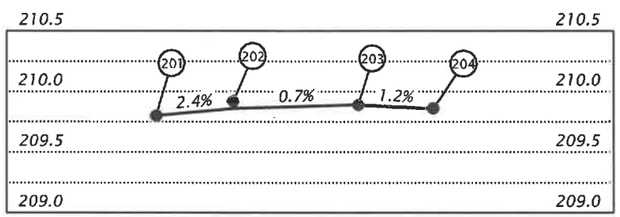
CURB RAMP NOTES:

1. CURB RAMPS ARE 4.1' WIDE UNLESS OTHERWISE SHOWN.
2. TURNING SPACE IS 4.1' X 5.1' UNLESS OTHERWISE SHOWN.



CR02 DETAIL

SCALE: 1" = 5'



CR02 PROFILE

SCALE: 1" = 5'

DESIGN EXCEPTION CONTROL: D2-50-03
LRM: 03100100
MP: 10.83
CORNER POSITION: 2
RAMP NUMBER: 1

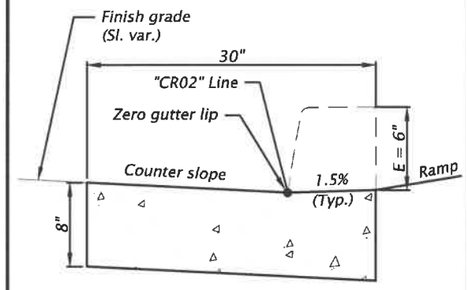
LEGEND

- Marked crossing location
- Sidewalk
- Turning Space (Min. level area 4' x 4') 4' x 5' when constrained, with longer dimension in the direction of ramp travel. For the purposes of this application, a max. 2.0% finished surface slope is considered level.
- Truncated dome detectable warning surface
- Slope 1.5% max. (Max. 2.0% finished surface slope)
- Slope 7.5% max. (Max. 8.3% finished surface slope)
- Counter slope at ramp 4.0% max. (Max. 5.0% finished surface slope) Slope measured perp. to curb
- 2## Station, offset, elev. point
- 2## Station, offset, elev. point (Signal foundation corner)

Note: Point numbers begin with the corner number

NOTES:

1. Slopes hold over elevations.
2. Maximum cross slope change on ramp is 0.5% per foot.
3. See standard drawings for details not shown.
4. See City of Albany Std. Dwg. No. 304 for curb details.
5. Extend transition panel limits to next concrete joint, as needed. Running slope shall be <5.0% with a panel warp rate ≤0.5%/ft.



CURB & GUTTER DETAIL

NO SCALE

Pnt #	Sta.	Off.	Elev.	Desc.	Pnt #	Sta.	Off.	Elev.	Desc.
201	0+14.95	0.00	209.80'	GUT	217	0+06.01	6.07	210.37'	FTG
202	0+17.49	0.00	209.86'	GUT	218	0+09.01	6.08	210.33'	FTG
203	0+21.62	0.00	209.89'	GUT	219	0+10.40	6.05	210.32'	SW
204	0+24.10	0.00	209.86'	GUT	220	0+15.20	5.78	210.28'	SW
205	0+14.90	2.00	209.82'	EOP	221	0+23.87	5.79	210.31'	SW
206	0+17.49	2.00	209.87'	EOP	222	0+27.25	5.95	210.33'	SW
207	0+21.62	2.00	209.90'	EOP	223	0+29.59	5.97	210.35'	FTG
208	0+24.13	2.00	209.89'	EOP	224	0+31.59	5.96	210.38'	FTG
209	0+09.83	0.50	210.33'	BOC	225	0+33.09	5.96	210.40'	SW
210	0+14.94	0.50	210.07'	BOC	226	0+38.09	5.95	210.55'	SW
211	0+17.39	0.50	209.87'	BOC	227	0+00.00	10.99	210.62'	SW
212	0+21.71	0.50	209.90'	BOC	228	0+05.00	11.46	210.47'	SW
213	0+24.11	0.50	210.08'	BOC	229	0+28.28	11.41	210.40'	SW
214	0+27.91	0.50	210.44'	BOC	230	0+33.11	11.39	210.46'	SW
215	0+00.01	6.04	210.51'	SW	231	0+38.11	10.91	210.64'	SW
216	0+05.01	6.05	210.39'	SW					

DESIGNED: R. BERGER
DRAWN: R. BERGER
CHECKED: C. CERKLEWSKI
DATE: 4/26/2018

REVISIONS		
NO:	DATE:	BY:
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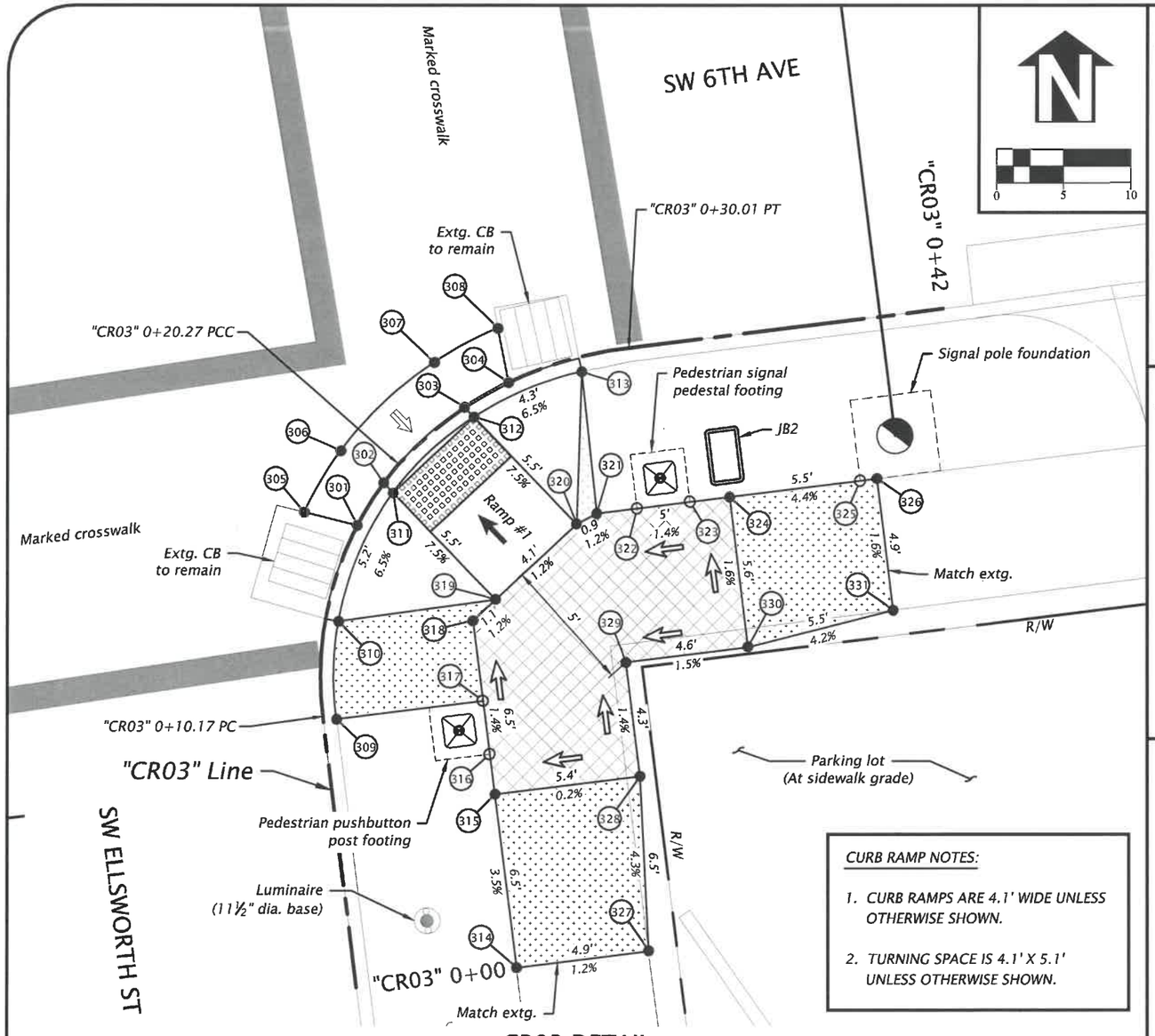
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES

SW ELLSWORTH STREET / SW 6TH AVENUE
INTERSECTION SIGNAL DESIGN (TS-18-01)

REGISTERED PROFESSIONAL ENGINEER
56,471PE
OREGON
JULY 9, 2002
CHRISTOPHER L. CERKLEWSKI

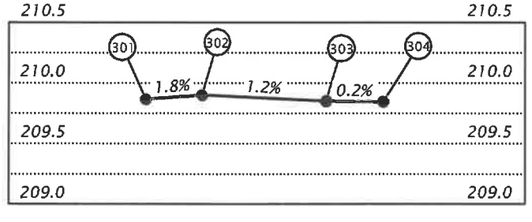
EXPIRATION DATE: 12/31/2019

SHEET NO. 2 OF 4
PROJECT NO: TS-18-01
FILE: CURB RAMPS Basesheet_DEA.DWG



CR03 DETAIL

SCALE: 1" = 5'



CR03 PROFILE

SCALE: 1" = 5'

DESIGN EXCEPTION CONTROL: D2-50-03
LRM: 03100I00
MP: 10.83
CORNER POSITION: 3
RAMP NUMBER: 1

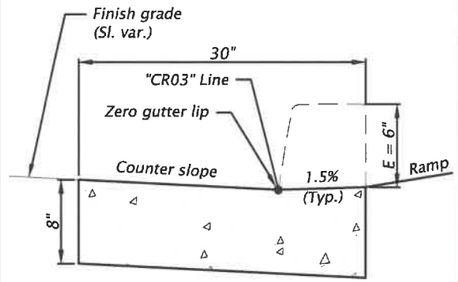
LEGEND

- Marked crossing location
- Sidewalk
- Turning Space (Min. level area 4' x 4') 4' x 5' when constrained, with longer dimension in the direction of ramp travel. For the purposes of this application, a max. 2.0% finished surface slope is considered level.
- Truncated dome detectable warning surface
- Slope 1.5% max. (Max. 2.0% finished surface slope)
- Slope 7.5% max. (Max. 8.3% finished surface slope)
- Counter slope at ramp 4.0% max. (Max. 5.0% finished surface slope) Slope measured perp. to curb
- 3## Station, offset, elev. point
- 3## Station, offset, elev. point (Signal foundation corner)

Note: Point numbers begin with the corner number

NOTES:

1. Slopes hold over elevations.
2. Maximum cross slope change on ramp is 0.5% per foot.
3. See standard drawings for details not shown.
4. See City of Albany Std. Dwg. No. 304 for curb details.
5. Extend transition panel limits to next concrete joint, as needed. Running slope shall be <5.0% with a panel warp rate ≤0.5%/ft.



CURB & GUTTER DETAIL

NO SCALE

CURB RAMP NOTES:

1. *CURB RAMPS ARE 4.1' WIDE UNLESS OTHERWISE SHOWN.*
2. *TURNING SPACE IS 4.1' X 5.1' UNLESS OTHERWISE SHOWN.*

Pnt #	Sta.	Off.	Elev.	Desc.	Pnt #	Sta.	Off.	Elev.	Desc.
301	0+17.51	0.00	209.87'	GUT	317	0+10.00	5.98	210.38'	FTG
302	0+19.38	0.00	209.90'	GUT	318	0+15.43	5.35	210.33'	SW
303	0+23.50	0.00	209.85'	GUT	319	0+17.35	5.82	210.32'	SW
304	0+25.36	0.00	209.84'	GUT	320	0+25.27	5.84	210.27'	SW
305	0+17.08	2.00	209.92'	EOP	321	0+26.76	5.76	210.28'	SW
306	0+19.38	2.00	209.92'	EOP	322	0+29.43	5.95	210.31'	FTG
307	0+23.50	2.00	209.87'	EOP	323	0+31.58	5.95	210.34'	FTG
308	0+25.82	2.00	209.87'	EOP	324	0+33.08	5.96	210.35'	SW
309	0+10.00	0.50	210.40'	BOC	325	0+37.96	5.96	210.56'	FTG
310	0+13.81	0.50	210.25'	BOC	326	0+38.58	5.96	210.59'	SW
311	0+19.28	0.50	209.91'	BOC	327	0+00.00	10.90	210.71'	SW
312	0+23.58	0.50	209.86'	BOC	328	0+06.50	11.40	210.43'	SW
313	0+28.09	0.50	210.14'	BOC	329	0+21.51	11.17	210.37'	SW
314	0+00.00	5.98	210.65'	SW	330	0+33.07	11.59	210.44'	SW
315	0+06.50	5.98	210.42'	SW	331	0+38.57	10.89	210.67'	SW
316	0+08.00	5.98	210.40'	FTG					

DESIGNED: R. BERGER
DRAWN: R. BERGER
CHECKED: C. CERKLEWSKI
DATE: 4/26/2018

REVISIONS

DATE:	NO:	BY:
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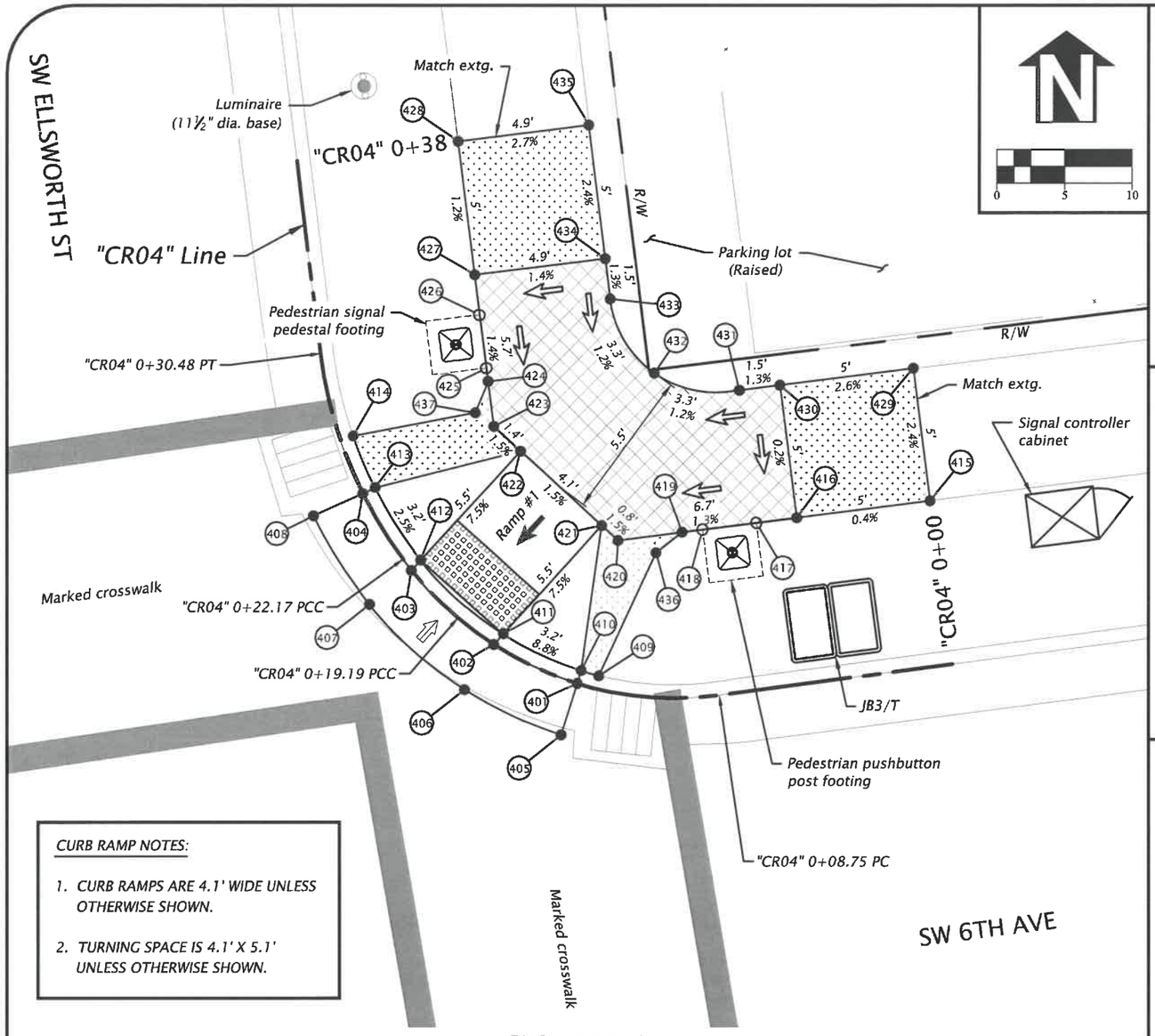
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES

SW ELLSWORTH STREET / SW 6TH AVENUE
INTERSECTION SIGNAL DESIGN (TS-18-01)

REGISTERED PROFESSIONAL ENGINEER
56,471PE
OREGON
JULY 9, 2002
CHRISTOPHER L. CERKLEWSKI

EXPIRATION DATE: 12/31/2019

SHEET NO. 3 OF 4
PROJECT NO: TS-18-01
FILE: CURB RAMPS Basesheet_DEA.DWG

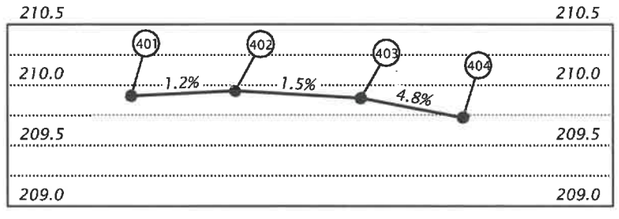


CR04 DETAIL

SCALE: 1" = 5'

CURB RAMP NOTES:

1. *CURB RAMPS ARE 4.1' WIDE UNLESS OTHERWISE SHOWN.*
2. *TURNING SPACE IS 4.1' X 5.1' UNLESS OTHERWISE SHOWN.*



CR04 PROFILE

SCALE: 1" = 5'

DESIGN EXCEPTION CONTROL: D2-50-03
LRM: 03100100
MP: 10.83
CORNER POSITION: 4
RAMP NUMBER: 1

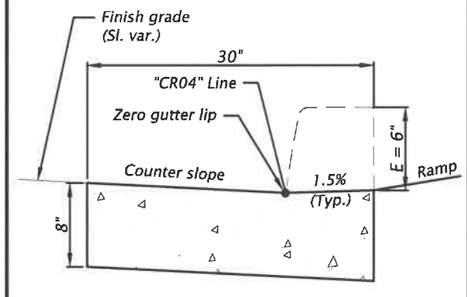
LEGEND

- *Marked crossing location*
- *Sidewalk*
- *Turning Space (Min. level area 4' x 4') 4' x 5' when constrained, with longer dimension in the direction of ramp travel. For the purposes of this application, a max. 2.0% finished surface slope is considered level.*
- *Truncated dome detectable warning surface*
- *Slope 1.5% max. (Max. 2.0% finished surface slope)*
- *Slope 7.5% max. (Max. 8.3% finished surface slope)*
- *Counter slope at ramp 4.0% max. (Max. 5.0% finished surface slope) Slope measured perp. to curb*
- *Station, offset, elev. point*
- *Station, offset, elev. point (Signal foundation corner)*

Note: Point numbers begin with the corner number

NOTES:

1. *Slopes hold over elevations.*
2. *Maximum cross slope change on ramp is 0.5% per foot.*
3. *See standard drawings for details not shown.*
4. *See City of Albany Std. Dwg. No. 304 for curb details.*
5. *Extend transition panel limits to next concrete joint, as needed. Running slope shall be <5.0% with a panel warp rate ≤0.5%/ft.*



CURB & GUTTER DETAIL

NO SCALE

Pnt #	Sta.	Off.	Elev.	Desc.	Pnt #	Sta.	Off.	Elev.	Desc.
401	0+14.09	0.00	209.91'	GUT	420	0+14.27	5.53	210.38'	SW
402	0+17.54	0.00	209.95'	GUT	421	0+15.69	5.83	210.37'	SW
403	0+21.66	0.00	209.89'	GUT	422	0+23.21	5.86	210.31'	SW
404	0+25.02	0.00	209.73'	GUT	423	0+25.19	5.43	210.33'	SW
405	0+14.11	2.00	209.95'	EOP	424	0+27.69	5.84	210.35'	SW
406	0+17.53	2.00	209.97'	EOP	425	0+28.44	5.92	210.36'	FTG
407	0+21.63	2.00	209.91'	EOP	426	0+31.19	5.99	210.38'	FTG
408	0+25.08	2.00	209.81'	EOP	427	0+32.69	5.99	210.41'	SW
409	0+13.37	0.50	210.36'	BOC	428	0+37.69	5.99	210.47'	SW
410	0+14.10	0.50	210.24'	BOC	429	0+00.00	11.10	210.61'	SW
411	0+17.45	0.50	209.96'	BOC	430	0+05.00	11.12	210.48'	SW
412	0+21.74	0.50	209.90'	BOC	431	0+06.51	11.14	210.46'	SW
413	0+25.02	0.50	209.98'	BOC	432	0+22.33	11.62	210.42'	SW
414	0+27.18	0.49	210.29'	BOC	433	0+31.19	10.90	210.46'	SW
415	0+00.04	6.13	210.49'	SW	434	0+32.69	10.89	210.48'	SW
416	0+05.04	6.16	210.47'	SW	435	0+37.69	10.89	210.60'	SW
417	0+06.54	6.17	210.45'	FTG	436	0+11.62	5.37	210.38'	SW
418	0+08.54	6.18	210.42'	FTG	437	0+26.27	5.01	210.33'	SW
419	0+09.85	6.16	210.41'	SW					

DESIGNED:	R. BERGER
DRAWN:	R. BERGER
CHECKED:	C. CERKLEWSKI
DATE:	4/26/2018

REVISIONS		
DATE:	NO:	BY:
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PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES

SW ELLSWORTH STREET / SW 6TH AVENUE
INTERSECTION SIGNAL DESIGN (TS-18-01)

REGISTERED PROFESSIONAL ENGINEER
56,471PE
OREGON
JULY 9, 2002
CHRISTOPHER L. CERKLEWSKI

EXPIRATION DATE: 12/31/2019

SHEET NO. 4 OF 4
PROJECT NO: TS-18-01
FILE: CURB RAMPS Basesheet_DEA.DWG