

**NORTH DAKOTA
DEPARTMENT OF TRANSPORTATION**

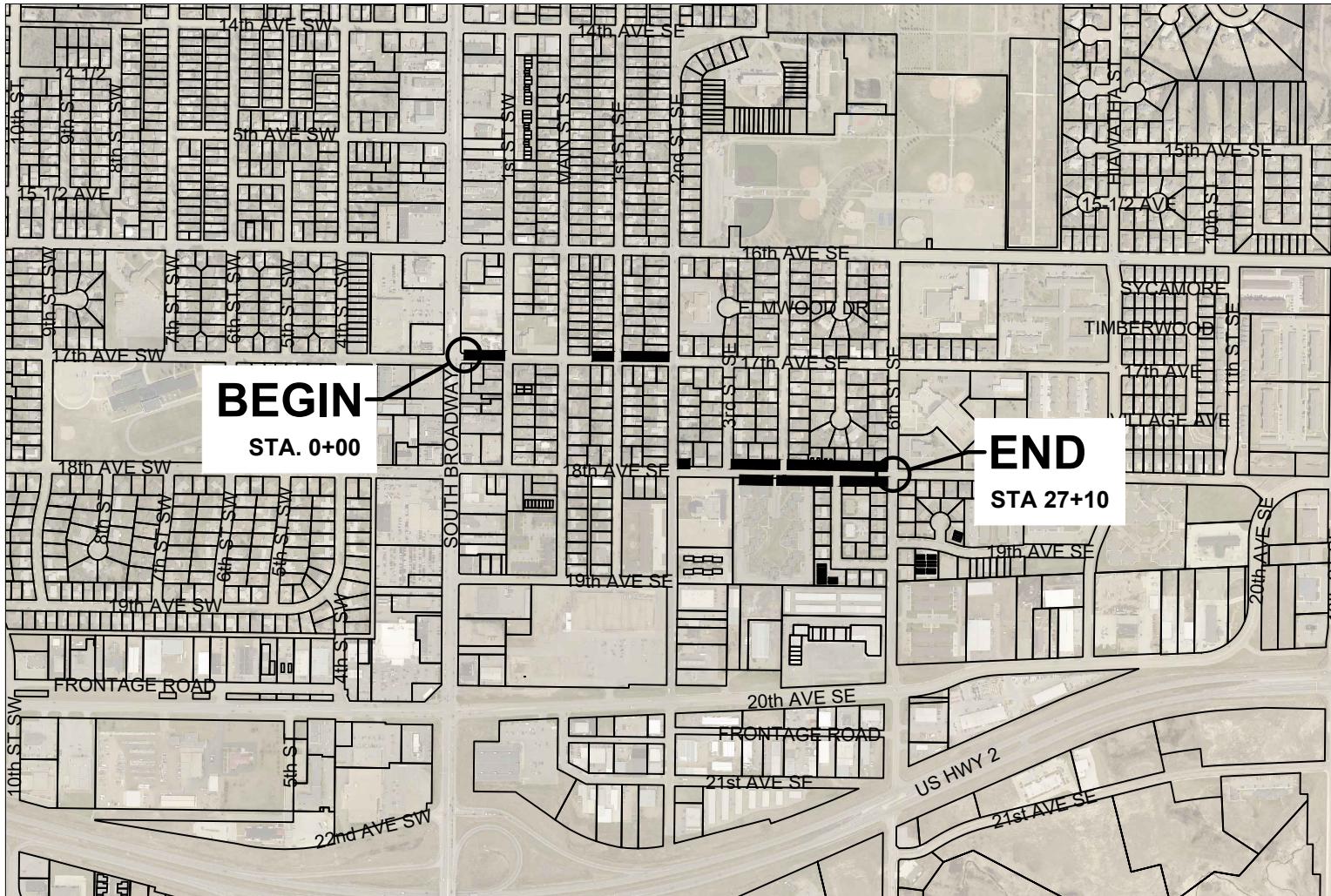
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(131)	23916	1	1

**TAU-4-989(131)
City of Minot Project No. 4720**

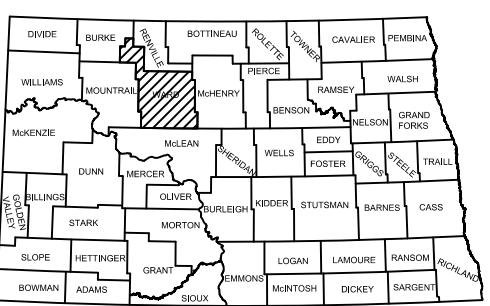
Ward County
17th Avenue SW, 17th Avenue SE, & 18th Avenue SE
Minot, ND
Washington Safe Routes to School
New Sidewalk, Curb Ramps, and Driveways

GOVERNING SPECIFICATIONS	Date Published and Adopted by the North Dakota Department of Transportation
Standard Specifications	07/01/2024
Supplemental Specifications	NONE

PROJECT NUMBER \ DESCRIPTION	NET MILES	GROSS MILES
TAU-4-989(131) Washington Safe Routes to School	0.31	0.51



NOT TO SCALE



STATE OF NORTH DAKOTA

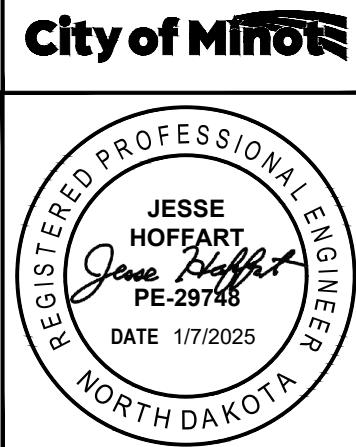
DESIGNER
Jesse Hoffart, PE

I hereby certify that the attached plans were prepared by me or under my direct supervision and that I am a duly registered professional engineer under the laws of the state of ND.

APPROVED DATE:

1/17/2025

Lance Meyer
LANCE E. MEYER, P.E., CITY ENGINEER
CITY OF MINOT



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288(24)		TEMPORARY PEDESTRIAN FACILITIES
289(24)		COMMERCIAL GRADE ASPHALT

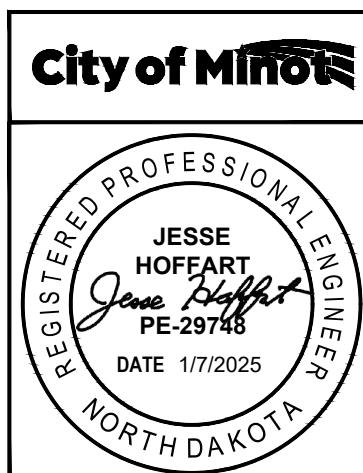
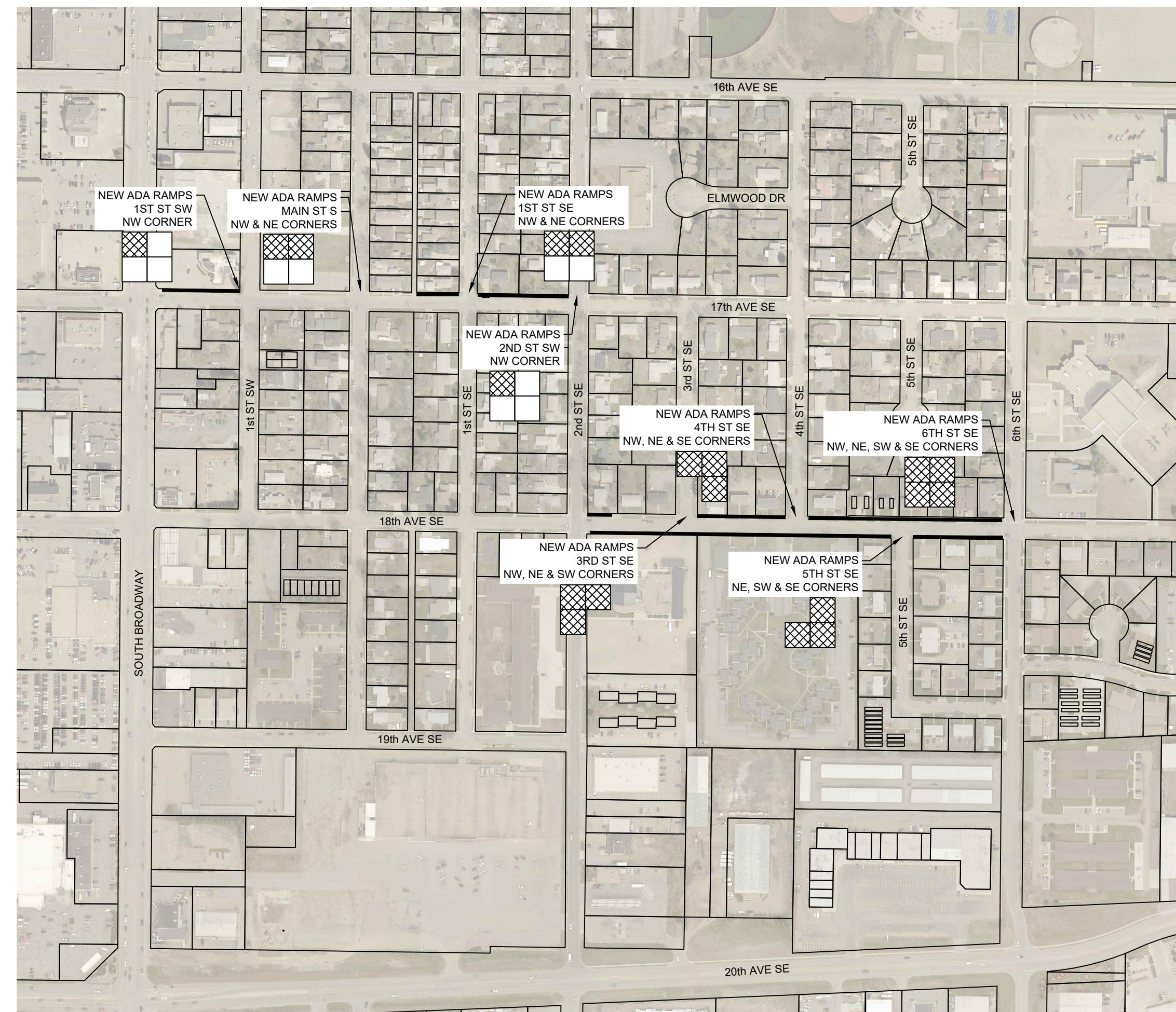


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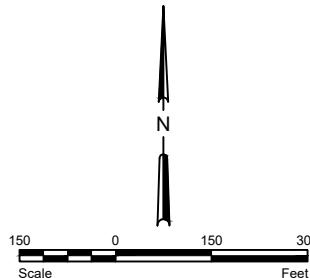
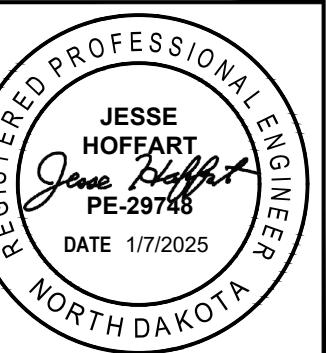
LEGEND



ADA RAMP



NEW SIDEWALK

**City of Minot**

SCOPE OF WORK

NOTES

100-P01 COMPLETION DATES: The overall completion date for this project will be August 15, 2025. Liquidated damages for failure to complete work by the completion date will be pursuant to standard specification 108.07.

100-P02 NOISE RESTRICTION: Construction activities or moving of equipment is only allowed between 7:00 am and 7:00 pm. Monday through Saturday, except for sawing of new concrete. Inform the Engineer in writing a minimum of 24 hours before sawing is planned to occur outside of these hours. Provide written notices to residents and / or businesses located within 1/2 block of the work by 7:00 pm prior to construction activities occurring between 7:00 pm and 7:00 am.

100-P03 ACCESS DURING CONSTRUCTION: Work on a driveway must be complete within 7 calendar days of starting removals on driveway. Lot owner(s) must be notified by Contractor minimum 2 calendar days prior to beginning removals. Removal shall not begin unless contact has been confirmed with lot owner(s) and documented by the Contractor.

100-P04 MOBILIZATION: All costs associated with multiple mobilizations shall be the responsibility of the contractor or subcontractor and no additional compensation will be considered by the Engineer or Owner.

100-P05 CONSTRUCTION EASEMENTS: Not all trees within the construction easements are being removed. Therefore, it is the contractor's responsibility to take care or to protect trees that are to remain when working around them. If for any reason the Contractor damages or destroys any trees that were not planned to be removed, the Contractor will be responsible for compensating the landowner.

100-P06 PROTECT EXISTING TREES: Contractor may not disturb primary roots of protected trees without the input of the City Forester and Engineer. If the roots become damaged without the input, the removal will be at the discretion of the City Forester and cost associated with such damage will be the Contractor's responsibility.

105-200 UTILITY COORDINATION: A utility coordination meeting is required.

107-500 PAVEMENT SWEEPING: Sweep the roadway adjacent to the construction area at the end of each day. Utilize a vacuum or pickup type sweeper.

107-P01 SPRINKLER SYSTEM: Any damage to sprinkler systems shall be repaired. The contractor shall work with property owners to lower/relocate lines or re-install sprinkler heads that are in the proposed concrete areas. Contractor will include all cost for repairing sprinkler systems to "Sprinkler Relocation" bid item.

108-100 WEEKLY PLANNING & REPORTING MEETING: A weekly planning and reporting meeting is required.

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108-P01 PUBLIC RELATIONS COORDINATION: Work with City of Minot's Public Relations Team and the Engineering Team to assist with all public communications and provide information in a timely manner to update the traveling public. The Contractor is responsible for providing the following:

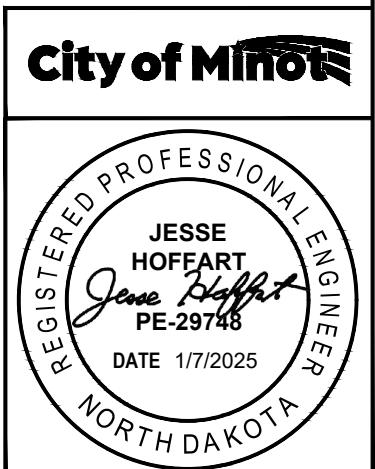
1. Upcoming construction activities in regard to street closures so that city police, emergency services, schools, and other pertinent city agencies may be notified.
2. Coordinate with and provide information to the Engineering Team and / or the City of Minot's Public Relations Team to assist with news releases before and during construction.

201-P01 CLEARING & GRUBBING: Existing rock and landscaping within the sidewalk alignment shall be removed from the project and returned to the adjacent lot owner(s). Contractor shall use care in the removal of the landscaping, rock, and pavers and shall coordinate with the lot owner(s) as applicable for the delivery of the return materials. All shrubs shall be removed if they are within the sidewalk alignment. Trees along the corridor may need to be trimmed. The engineer will mark branches to be trimmed by the Contractor. Contractor will include the cost for trimming in the "Clearing & Grubbing" item.

202-P01 REMOVAL OF CONCRETE: Concrete removals vary in thickness. There will be no additional compensation for the removal of extra thickness. Include the removal of aggregate or embankment beneath the roadway, sidewalk, curb and curb and gutter in the costs of "Removal of Concrete Pavement" or "Removal of Curb & Gutter" bid items.

202-P02 REMOVAL OF BITUMINOUS SURFACING: Bituminous surfacing designated for full depth removal may vary in thickness. Bituminous surfacing to be removed shall be sawed full depth to a vertical edge at the locations shown on the plans and to the limits as marked by the engineer in the field. There will be no additional compensation for the removal of extra thickness of bituminous material. Sawing cutting for removal is an incidental cost to the "Removal of Bituminous Surfacing" bid item.

203-P01 TOPSOIL-IMPORTED: Measurement and payment for topsoil shall be at the contract unit price by plan quantity (Contract Quantity Payment).



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203-P02 COMMON EXCAVATION TYPE C: The quantities of common excavation to be paid shall be paid at plan quantity. Removing and salvaging topsoil where present and respreading said topsoil in its entirety in areas to be hydro-seeded is included in the bid quantity for this item. Excavate no more than 3.5' wider than sidewalk and ADA ramp. In no case shall the contractor excavate outside of the right-of-way, except as shown in the temporary construction easements. Additional excavation and grading may be required to maintain drainage from new sidewalk to street. Contractor is responsible for any over-excavation costs that have not been approved by the Engineer.

251-P01 SEEDING CLASS III: Use the following seed mix for all permanent seeding:

Species	% by Weight	Purity	Germination
Bluegrass - Park	60%	90%	85%
Creeping Red Fescue	10%	90%	85%
Fine Leaf Perennial Ryegrass	30%	95%	90%

Rate of Seeding = 120 Lbs/Acre

Water the seed for three weeks minimum after placement every other day in order to provide sufficient moisture for growth as determined by the Engineer. Provide a one (1) year guarantee for all seeding, which commences on the date the owner accepts the project. All costs associated with the above work shall not be paid for separately but shall be included in the price bid for "SEEDING CLASS III."

251-P02 WEED CONTROL

Any invasive or unwanted weeds that grow after permanent seeding has been installed shall be corrected and removed by the Contractor. When using non-selective herbicide, a broad-spectrum glyphosate-based herbicide shall be used. When using a selective herbicide, Trimec, 2-4-D, or an approved equal shall be used. Contractor should consider all potential costs for weed control as incidental to the project.

302-P01 AGGREGATE BASE FOR ASPHALT: Class 5 aggregate base will be placed as needed at the Engineer's discretion prior to placement of Commercial Grade Hot Mix Asphalt. All other aggregate for the project shall be paid per plan note 750-P04.

430-P01 BASE: The existing base material must be inspected and approved by the Engineer prior to placement of Commercial Grade Hot Mix Asphalt.

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430-P02 COMMERCIAL GRADE HOT MIX ASPHALT: Submit a mix design that meets FAA 43 PG 58S-28 for approval. The Hot Mix Asphalt used for street patching will be accepted by one random aggregate and mix sample representing the plan quantity for the project. CSS-1h tack coats shall be placed on all edges and in between hot mix asphalt lifts at a rate of 0.07 gal/sy undiluted.

704-P01 SIDEWALK BARRICADE: Use the sidewalk barricade as detailed in Section 20 or a commercially available ADA wall, as approved by the Engineer to close sidewalks during construction.

708-P01 EROSION CONTROL: Contractor shall stabilize the topsoil with seed and hydraulic mulch within 7 days of topsoil installation. Contractor's construction methods shall be such that erosion will be controlled and minimized in the case of a rain event.

708-P02 INLET PROTECTION-SPECIAL: Shall be paid for by each inlet protection device used.

722-P01 ADJUST GATE VALVE: Take care during concrete removal to ensure riser boxes are not disturbed during construction. Replace bent or otherwise damaged riser boxes. Once concrete is removed around gate valve riser box, provide City personnel full access to inspect riser box. Adjust gate valves to match new adjacent pavement. Include this work in the price bid for "Adjust Gate Valve Box."

748-P01 CURB & GUTTER: Install curb & gutter type as indicated on the plans. Refer to the curb and gutter details to determine the type configuration.

748-P02 CURB-TYPE 1: The height of the "Curb-Type 1" will vary depending on the existing locations and will need to match the existing elevations at tie in locations.

748-P03 REINFORCING STEEL, DOWEL BARS, AND TIE BARS: All reinforcing shall be epoxy coated. Secure steel into drilled holes with an approved epoxy adhesive. Conform to NDDOT Specification Section 836. All reinforcing steel, dowel bars, and tie bar costs shall be incidental costs to the concrete bid items included in the project.

748-P04 CONTRACTION JOINTS: The contraction joints in concrete curb and gutter shall be placed no greater than 10 feet apart. All joints shall be tooled or sawed to depth sufficient to control cracking, typically 1/4 of the thickness of the concrete. Match joints of adjacent concrete work when possible. Sawed joints shall be sawed within 24 hours after pouring the concrete. A 3/8 inch wide groove shall be made at each contraction joint.

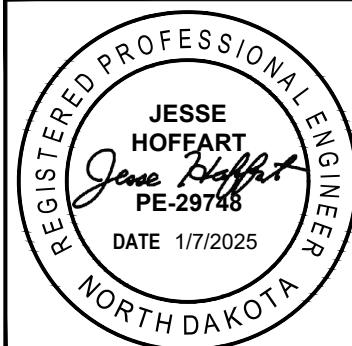
748-P05 TOLERANCE: Curb and Gutter, including valley gutter, shall not vary for the specified thickness by more than 0.3 inches.

748-P06 FINISHING: Curb and Gutter and Valley Gutter

1. Completed concrete shall have an even, uniform appearance in the surface contour and texture.
2. The surface of the concrete shall have a light broom finish perpendicular to the flow of water.
3. Any surface area holding 1/8 inch deep or greater will be considered unacceptable.

Any concrete deemed unacceptable by the Engineer shall be replaced by the Contractor at its expense.

City of Minot



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750-P01 DETECTABLE WARNING PANELS: Install unpainted, cast iron plates manufactured by East Jordan Iron Works, Neenah Foundry, or approved equal. Panels may need to be cut or modified in the field to fit the proposed design.

750-P02 DRIVEWAY CONCRETE: Bid item pertains to the concrete used in a driveway apron, driveway between the sidewalk section and the property owner's garage doors, and concrete pads adjacent to a driveway apron. This item excludes the 6" sidewalk section between the two previously mentioned sections. Driveway aprons should be constructed with the same width that was in place before removal, but with 3-foot flairs on each side, per drawings shown in Section 30 Sheet 1 of this plan set.

750-P03 PIGMENTED IMPRINTED CONCRETE: The concrete will be a colored and stamped 4" sidewalk with a herringbone stamp pattern or 4" x 8" brick pattern and colored release agent/color hardener. Include an integral concrete color mix, either dry or liquid and include a colored stamp release agent to be selected upon approved color choice below. Develop a mix design that meets the requirements specified in Section 802.02.B.2.

Provide a pigment from the list below or provide an approved equal. To be considered an approved equal, pigments must meet the requirements of ASTM C 979.

1. Butterfield Uni-Mix (U10 Sonoran Tan or U24 Georgia Clay)
2. Scofield Standard (C-21 Adobe Tan or 1017 Barcelona Brown)
3. Davis Colors (Omaha Tan or Sequoia Tan)

Use the same supplier for all colored concrete placed under the contract. The color shall be uniform throughout the entire project. As part of the approval process, contractor shall provide a 2'x2' mockup depicting the two color options specified above (from only one manufacturer or equal to be chosen by contractor) for Engineer and Owner to evaluate prior to final selection. The approved mockup and final color choice will be the standard of which to compare project area concrete for color, texture, and finish appearance. Cure and seal concrete using curing compound that meets the requirements of ASTM C 309, Type 1 and include slip resistant additive.

Include all costs in the price bid for "PIGMENTED IMPRINTED CONCRETE".

750-P04 BASE AGGREGATE: Provide aggregate needed to grade sidewalk meeting specifications of "Aggregate Base Course CL 5." Include all costs associated with aggregate in the price bid for "Aggregate Base Course CL 5."

750-P05 ADA RAMPS AND LANDINGS: Dimensions shown in Section 80 are approximate. Adjustments may be required so maximum grades are not exceeded. Flatter grades or slopes may be used as directed by the Engineer. The designated ADA turning spaces as designated in Section 80 per the legend as "Low Slope Area" are to be placed separately and installed prior to adjacent ADA ramps and/or sidewalks allowing for a minimum of 24 hours of cure time.

750-P06 PROTECTION OF CONCRETE: Protect all new and / or existing 'grey concrete' from staining when the pigmented imprinted concrete is placed throughout the project corridor. The method of protecting the concrete will be approved by the Engineer. Any staining of 'grey concrete' will be removed and replaced at the contractor's expense. Protect all new concrete from damage to include but not limited to: rain, pedestrian traffic, vehicular traffic, and cold weather. Any damaged concrete shall be removed and replaced at the contractor's expense.

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750-P07 REINFORCING STEEL, DOWEL BARS, AND TIE BARS: All reinforcing shall be epoxy coated. Secure steel into drilled holes with an approved epoxy adhesive. Conform to NDDOT Specification Section 836. All reinforcing steel, dowel bars, and tie bar costs shall be incidental costs to the bid items included in the project.

750-P08 EXPANSION JOINTS: Provide a semi-rigid, closed-cell polypropylene foam, preformed joint filler that fully complies with ASTM D8139. NOMAFLEX® by Nomaco, Inc. Place expansion at 60 lineal foot intervals within sidewalk and where specified in the plan details. Expansion joints shall be sealed per section 550.04.F.6. Expansion joints shall be 1/2 inch wide with epoxy coated smooth dowels greased for debonding placed at specified spacing.

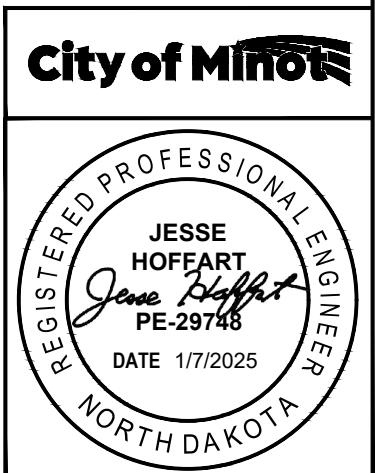
750-P09 WATER SERVICE CURB STOPS: Protect all existing curb stops. Contractor shall use caution when excavation around curb stops in sidewalk alignment. All curb stops located within sidewalk shall have a 10" Gave Valve Box placed over the curb stop installed flush with the new sidewalk. Include all costs associated with this work in the price bid for "Sidewalk Concrete 4IN," "Sidewalk Concrete 6IN," and "Driveway Concrete."

750-P10 BACKFILLING: Perform backfilling operations no sooner than 72 hours after placement of new concrete. Any damage during backfilling operations is the responsibility of the Contractor to replace. Blend the existing topsoil adjacent to the sidewalk and/or curb & gutter to eliminate any steep slopes or vertical edges. Additional topsoil may be required to maintain existing drainage after new sidewalk is installed. Any excess topsoil will become property of the Contractor and must be removed from the project site. Any needed topsoil must be imported to the project if necessary.

750-P11 CONTRACTION JOINTS: The contraction joints in sidewalk shall be placed no greater than 5 feet apart. All joints shall be sawed to depth sufficient to control cracking, typically 1/4 of the thickness of the concrete. Match joints of adjacent concrete work when possible. Sawed joints shall be sawed within 24 hours after pouring the concrete. A 3/8 inch wide groove shall be made at each contraction joint. Contraction joints in driveways shall be placed no greater than 10 feet apart.

762-P01 PAVEMENT MARKINGS: Pavement surface must be grooved before installation of preformed thermo plastic pavement markings.

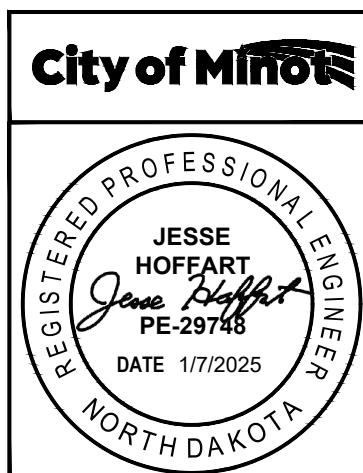
970-P01 SHELTER: Bid item pertains to the salvage and re-installation of a bus stop shelter. Contractor shall use caution when removing the shelter. Contractor will include all costs associated with the salvage, reset, and installation of the existing bus stop shelter in the "Shelter" bid item, as well as any materials necessary to perform those tasks.



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SPEC	CODE	DESCRIPTION	UNIT	AMOUNT
103	100	CONTRACT BOND	L SUM	1
201	330	CLEARING & GRUBBING	L SUM	1
202	114	REMOVAL OF CONCRETE PAVEMENT	SY	1034
202	130	REMOVAL OF CURB AND GUTTER	LF	1300
202	132	REMOVAL OF BITUMINOUS SURFACING	SY	909
203	103	COMMON EXCAVATION - TYPE C	CY	338
203	119	TOPSOIL-IMPORTED	CY	568
251	300	SEEDING CLASS III	ACRE	0.703
253	200	HYDRAULIC MULCH	SY	3409
261	112	FIBER ROLLS 12IN	LF	200
261	113	REMOVE FIBER ROLLS 12IN	LF	200
302	120	AGGREGATE BASE COURSE CL 5	TON	831
430	500	COMMERCIAL GRADE HOT MIX ASPHALT	TON	160
702	100	MOBILIZATION	L SUM	1
704	1000	TRAFFIC CONTROL SIGNS	UNIT	1103
704	1051	TYPE II BARRICADE	EA	13
704	1052	TYPE III BARRICADE	EA	3
704	1058	PEDESTRIAN WALKWAY	LF	298
704	1060	DELINEATOR DRUMS	EA	238
704	1067	TUBULAR MARKERS	EA	165
704	1500	OBLITERATION OF PAVEMENT MARKING	SF	227
704	2108	TEMPORARY CURB RAMP	EA	13
708	1540	INLET PROTECTION-SPECIAL	EA	5
708	1541	REMOVE INLET PROTECTION-SPECIAL	EA	5
722	6140	ADJUST GATE VALVE BOX	EA	3
724	275	REMOVE & REPLACE GATE VALVE BOX	EA	2
724	1035	SPRINKLER RELOCATION	L SUM	1
748	100	CURB & GUTTER	LF	1300
748	520	CURB-TYPE I	LF	228
748	1030	VALLEY GUTTER 72 IN	SY	113
750	30	PIGMENTED IMPRINTED CONCRETE	SY	56
750	115	SIDEWALK CONCRETE 4 IN	SY	1453
750	140	SIDEWALK CONCRETE 6 IN	SY	436
750	1000	DRIVEWAY CONCRETE	SY	528
750	2115	DETECTABLE WARNING PANELS	SF	316
754	110	FLAT SHEET FOR SIGNS-TYPE XI REFL SHEETING	SF	18
754	206	STEEL GALV POSTS - TELESCOPING PERFORATED TUBE	LF	16
754	593	RESET SIGN SUPPORT	EA	3
762	1270	PREFORMED THERMO PLASTIC PVMT MK 24IN LINE	LF	216
970	365	SHELTER	EA	1



ESTIMATED QUANTITIES

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COMMON EXCAVATION-TYPE C

Total area of new 4" sidewalk (10,900 SF) * 8/12 FT depth * 1/27 CY/CF = 269 CY
 Total area of new 6" sidewalk (1,422 SF) * 12/12 FT depth* 1/27 CY/CF = 53 CY
 $269 + 53 = \underline{322 \text{ CY}}$

TOPSOIL-IMPORTED

Total area of planned maximum topsoil area needed = 30,664 SF * 0.5 ft thickness = 15,332 CF
 $15,332 \text{ CF} * 1/27 \text{ CY/CF} = \underline{568 \text{ CY}}$

COMMERCIAL GRADE HOT MIX ASPHALT

(Total area for estimated patching area (4,479 SF) + Estimated additional area for contingency (2000 SF)) * Desired thickness of asphalt section (4/12 FT)
 $* (1/27) \text{ SY/SF} * 2 \text{ TON/CY} = \underline{160 \text{ TONS}}$

AGGREGATE BASE COURSE CL 5

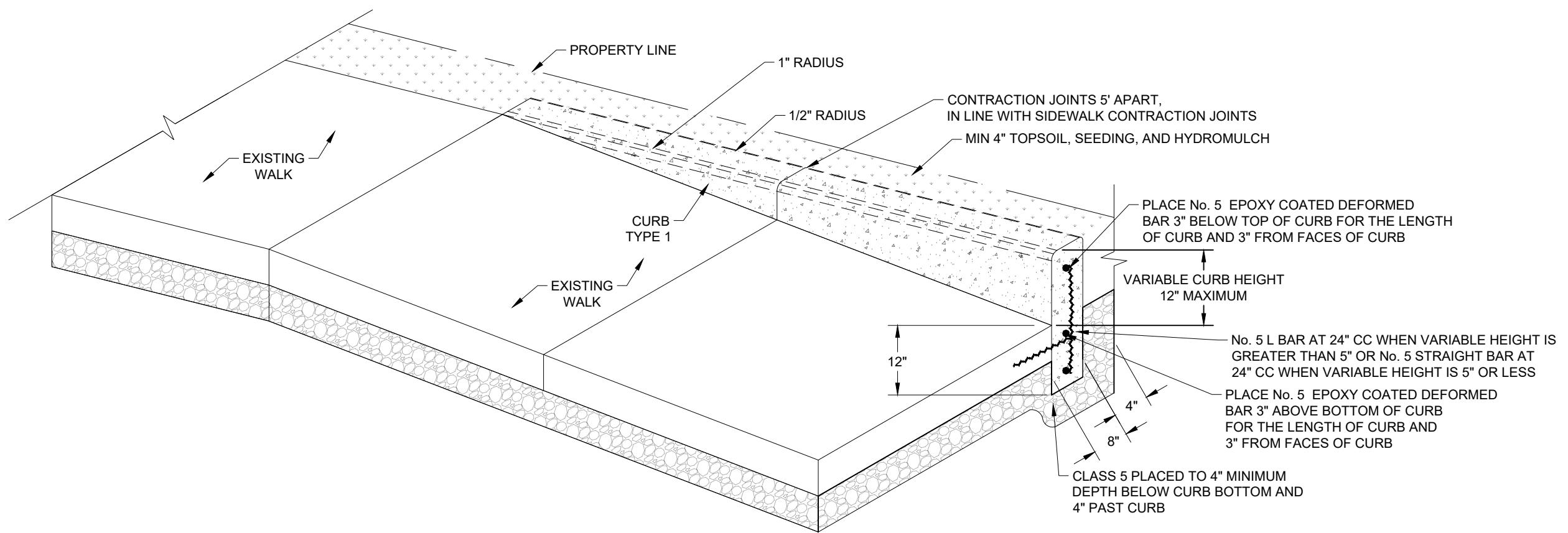
Total area for Valley gutter (113 SY) * base thickness (8/36 Y) = 25.11 CY
 Total area for 4" sidewalk (1,453 SY) * base thickness (4/36 Y) = 161.44 CY
 Total area for 6" sidewalk (436 SY) * base thickness (6/36 SY) = 72.67 CY
 Total area for driveway concrete (528 SY) * base thickness (6/36 SY) = 88.00 CY
 Total length of curb & gutter (1,300 LF) * (1/3 Y/LF) * base width (30/36 Y) * base thickness (7/36 Y) = 70.22 CY
 Total length of Type 1 curb (684 LF) * (1/3 Y/LF) * estimated cross section area of base (3/9 SY) = 25.33 CY
 Sum of all cubic yards (442.77 CY) * Class 5 unit weight (1.875 ton/CY) = 830.20 tons

City of Minot



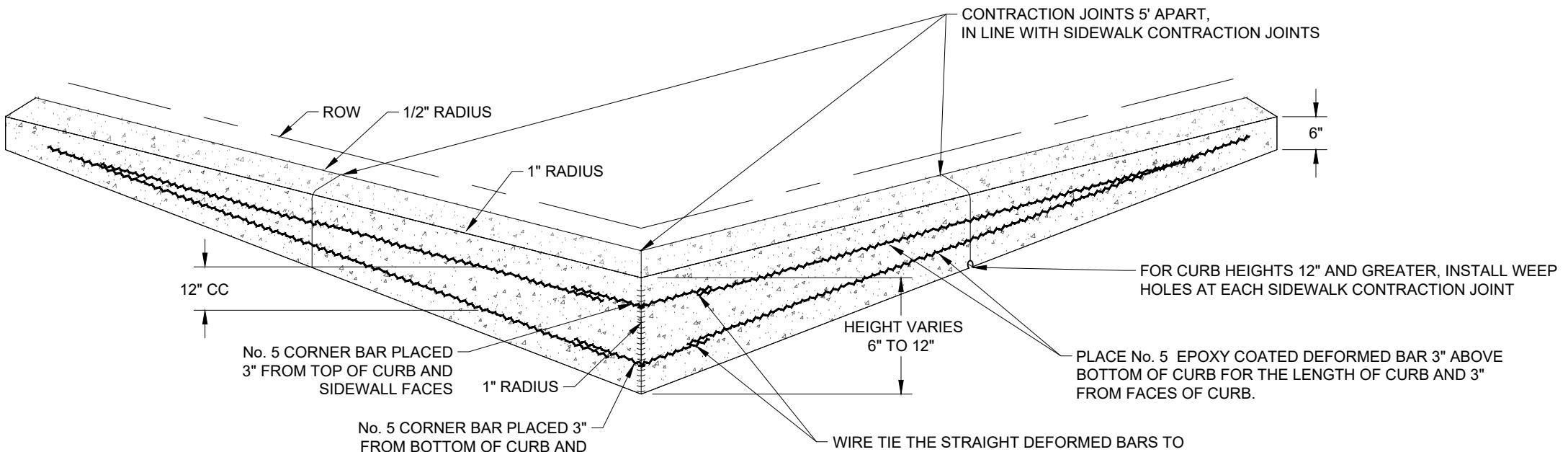
BASIS OF ESTIMATE

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CURB TYPE 1 ADJACENT TO LANDSCAPE

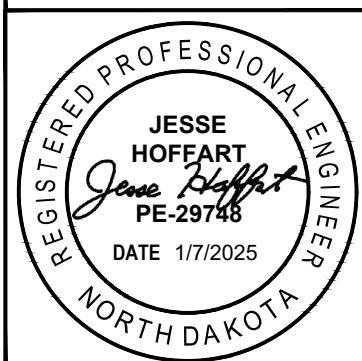
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CURB TYPE 1 INTERSECTION

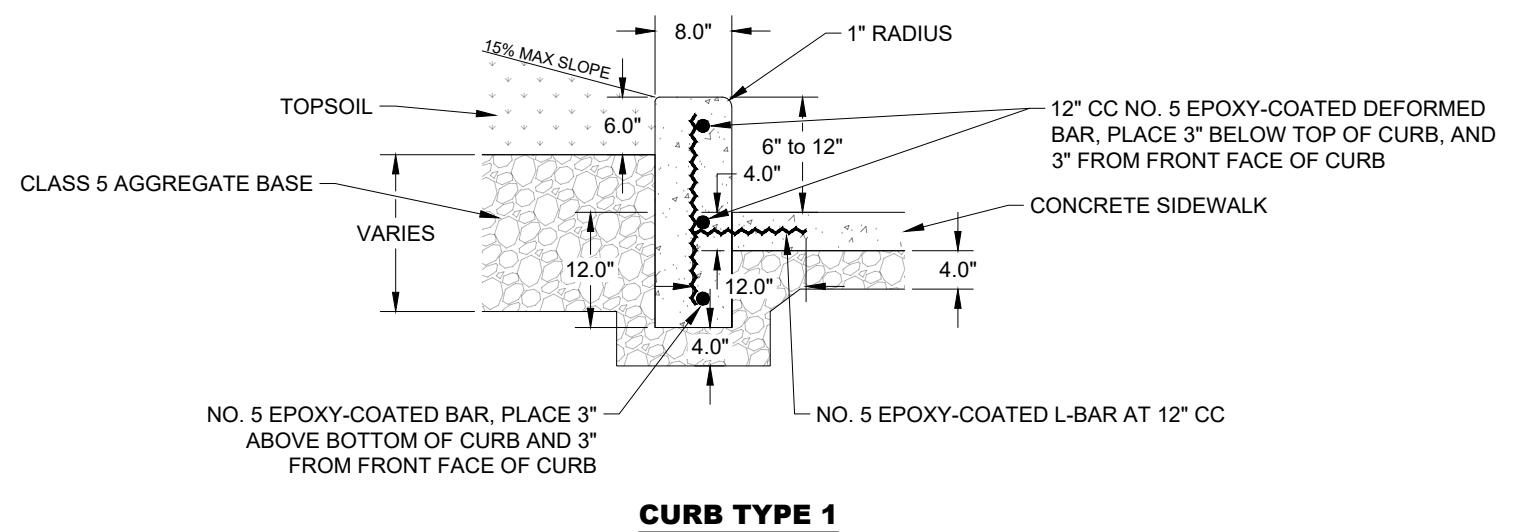
(ISOMETRIC VIEW)

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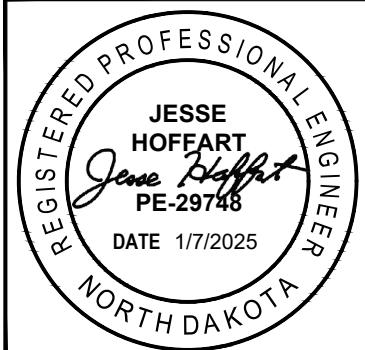
CURB TYPE 1
DETAILS

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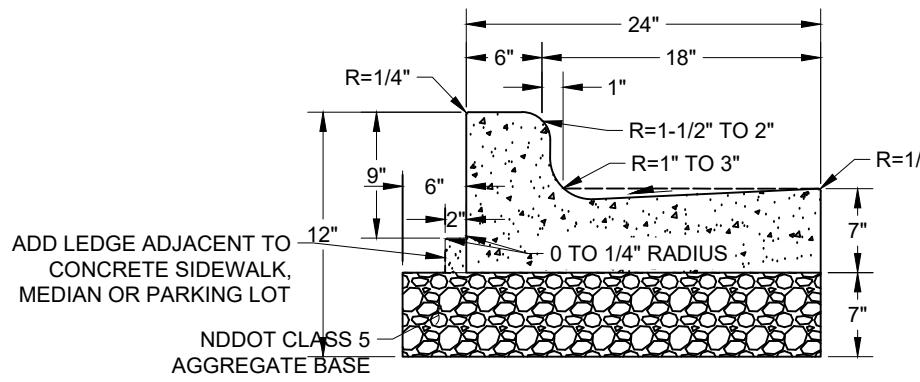
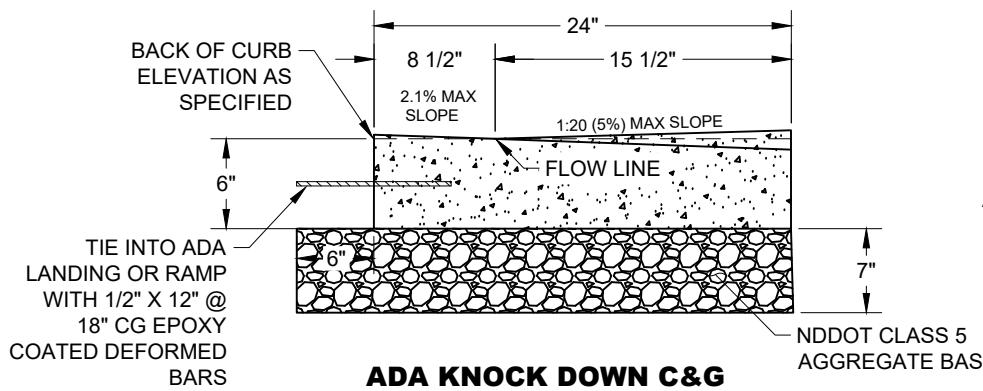
NOTE: IF TYPE 1 CURB HEIGHT (MEASURED FROM TOP OF SIDEWALK) MUST EXCEED 12" TO MEET 15% MAXIMUM SLOPE, CONSULT WITH ENGINEER.

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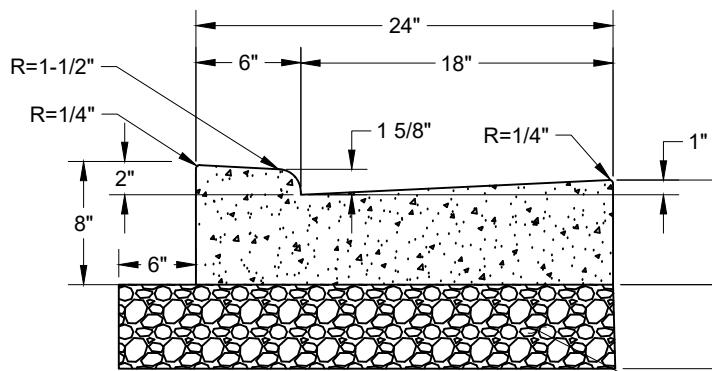


CURB TYPE 1
DETAILS

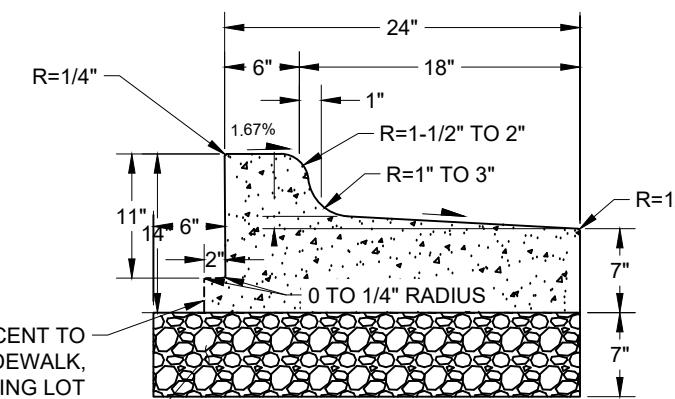
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ND	TAU-4-989(131)	23916	20	3



TYPE 1A INFLOW C&G

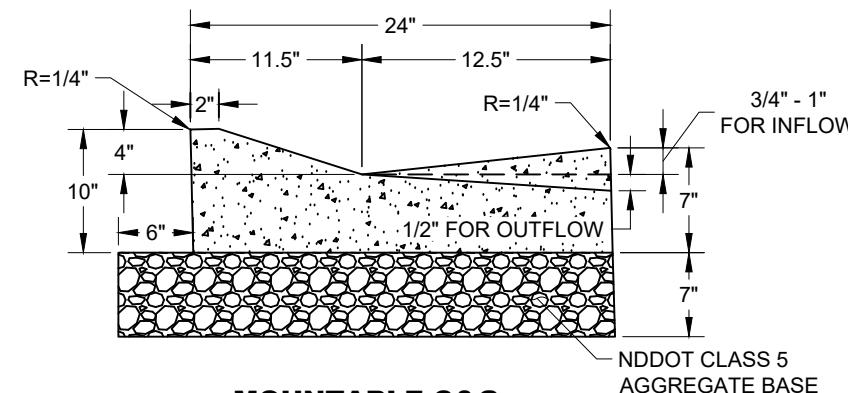
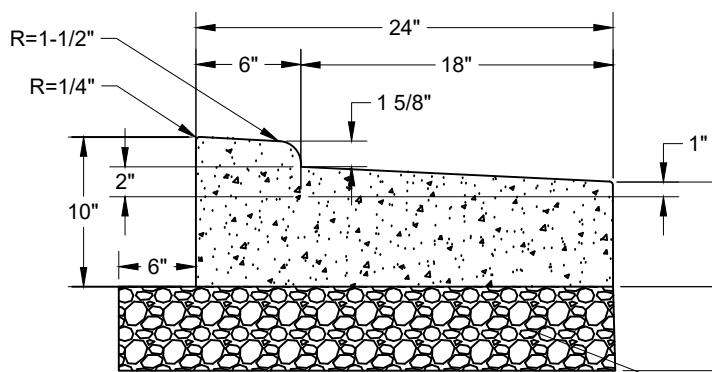


NDDOT CLASS 5 AGGREGATE BASE



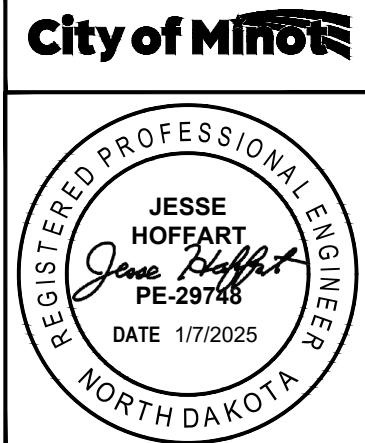
TYPE 1B OUTFLOW C&G

As approved by City Engineer

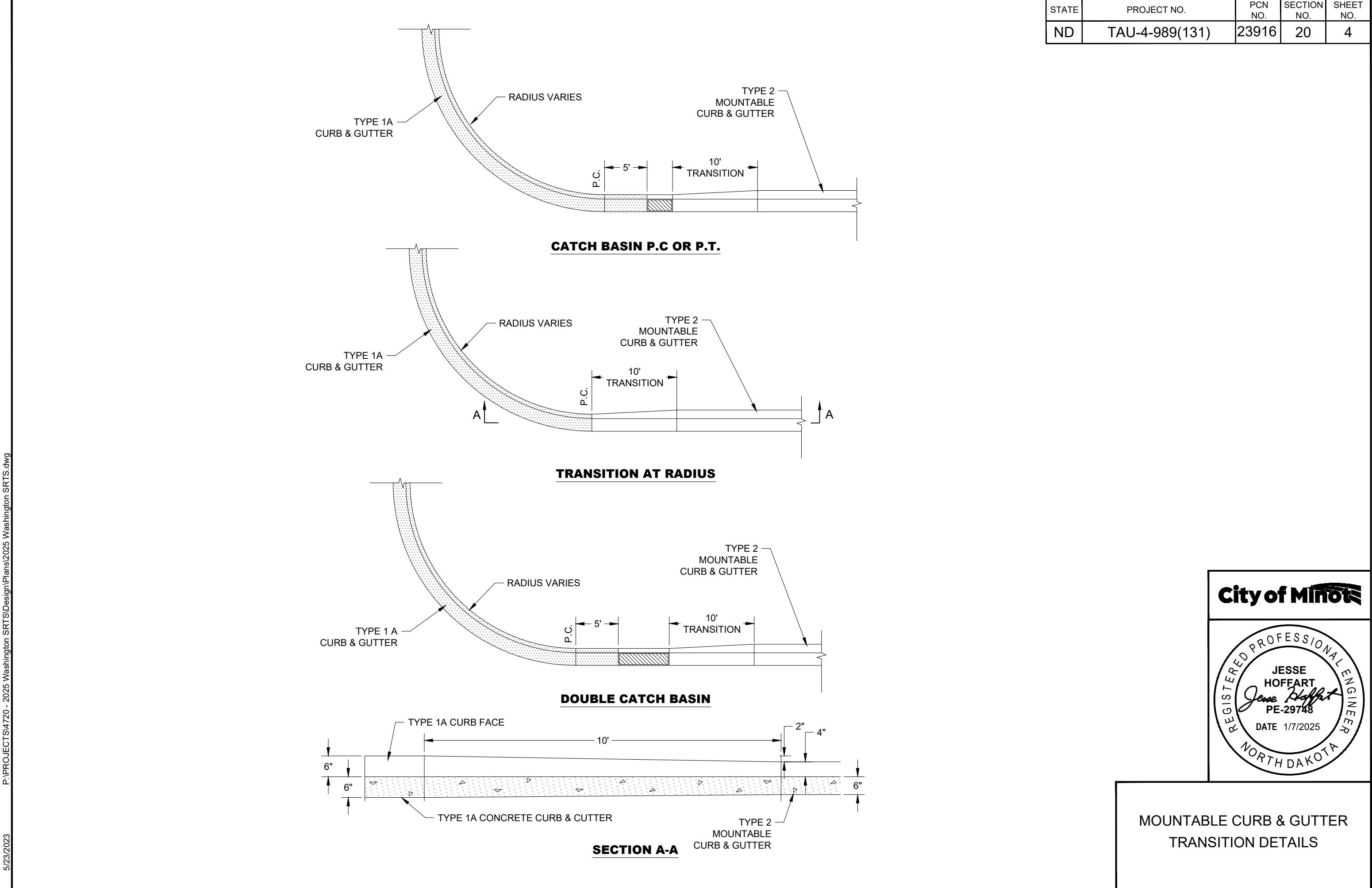


MOUNTABLE C&G

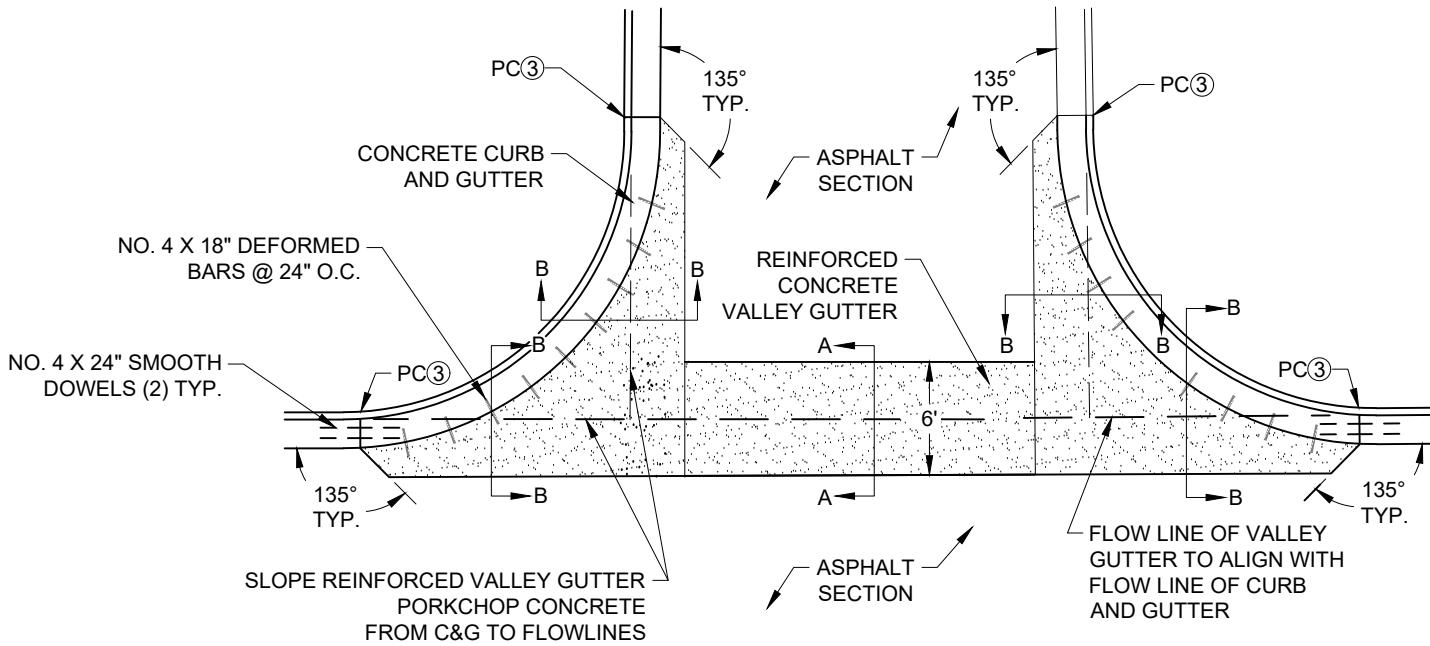
INFLOW OR OUTFLOW



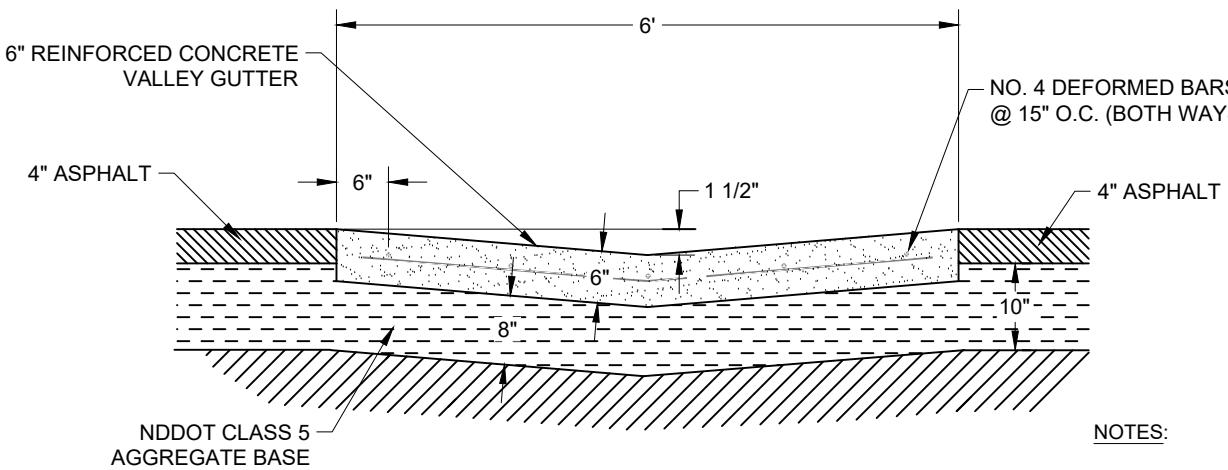
CURB & GUTTER DETAILS



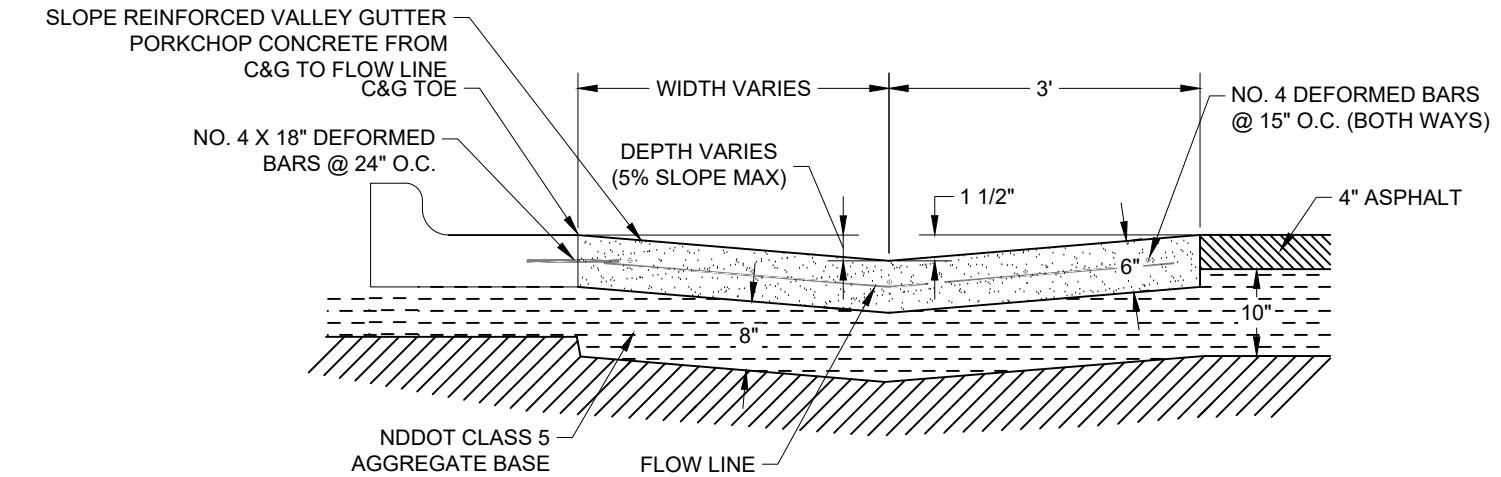
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(131)	23916	20	5



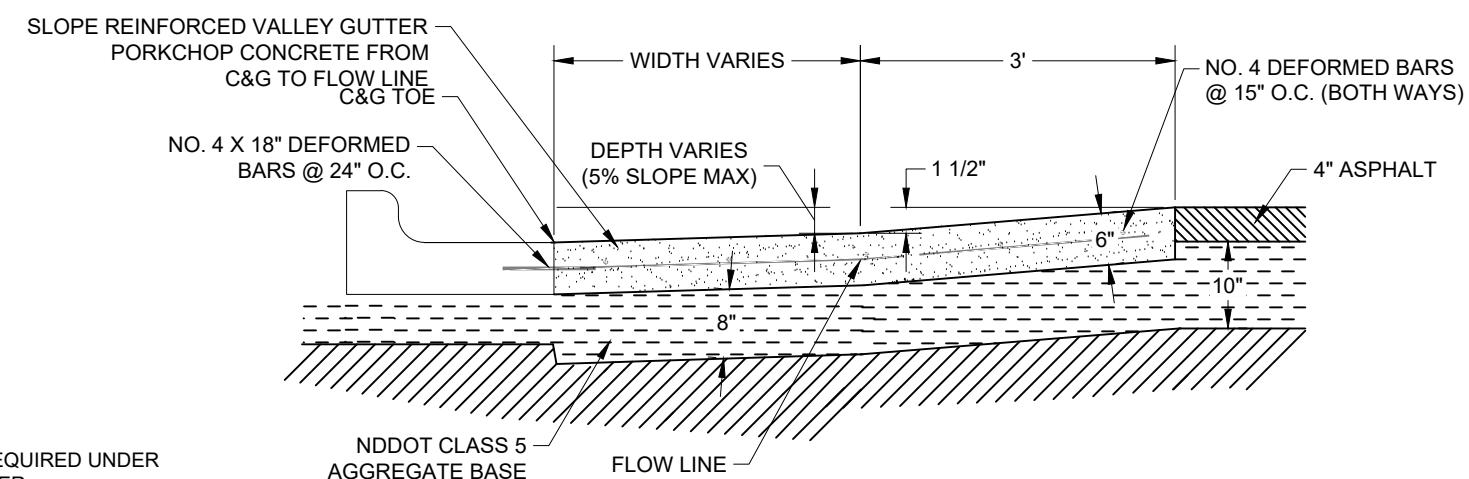
**VALLEY GUTTER TYPE A
ASPHALT STREET**



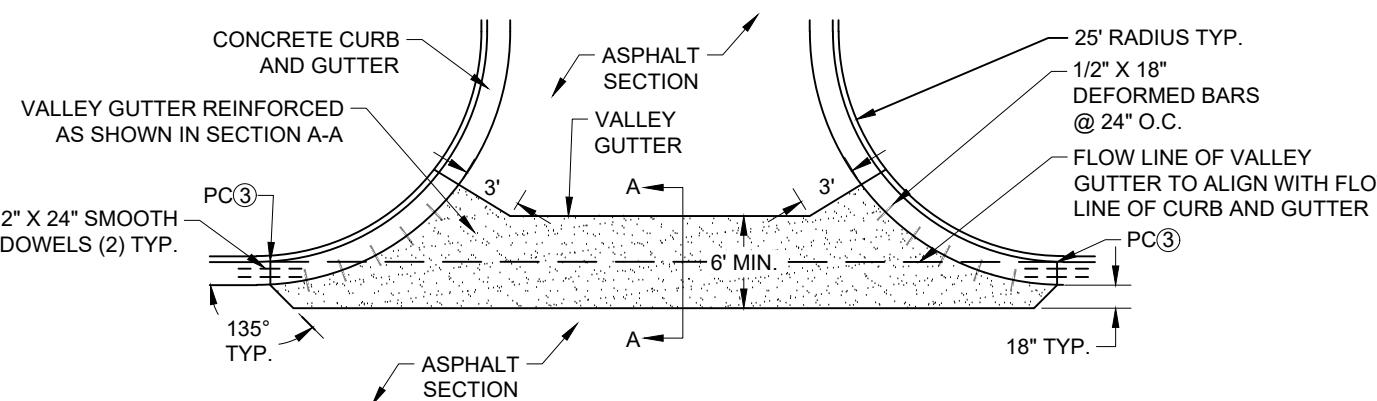
**VALLEY GUTTER TYPE A
SECTION A-A**



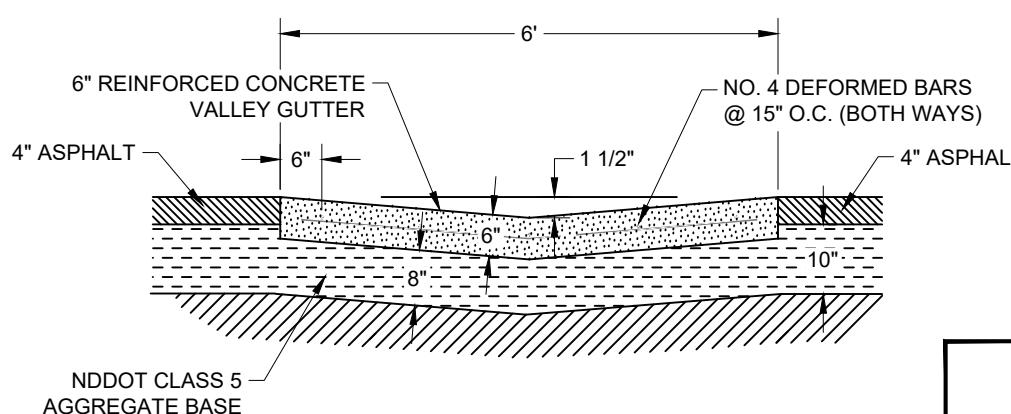
**VALLEY GUTTER TYPE A
SECTION B-B (DECLINE FROM C&G TOE)**



**VALLEY GUTTER TYPE A
SECTION B-B (INCLINE FROM C&G TOE)**



**VALLEY GUTTER TYPE B
PLAN VIEW**



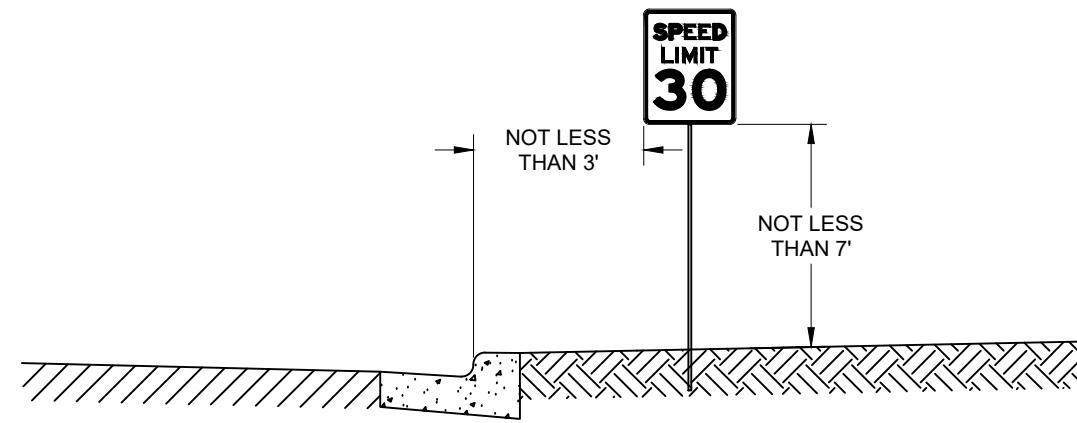
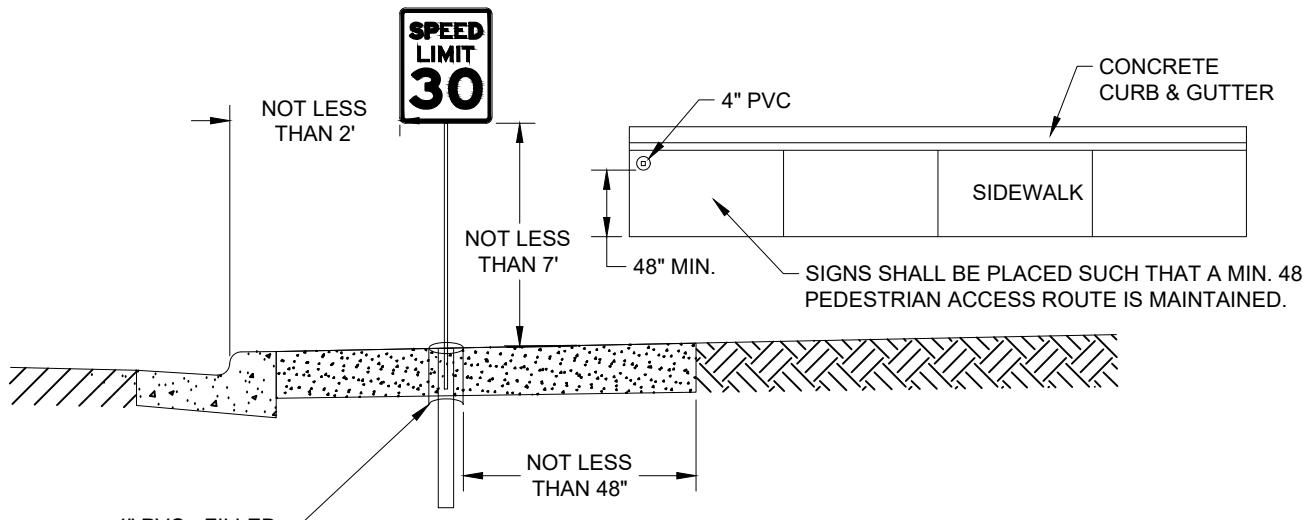
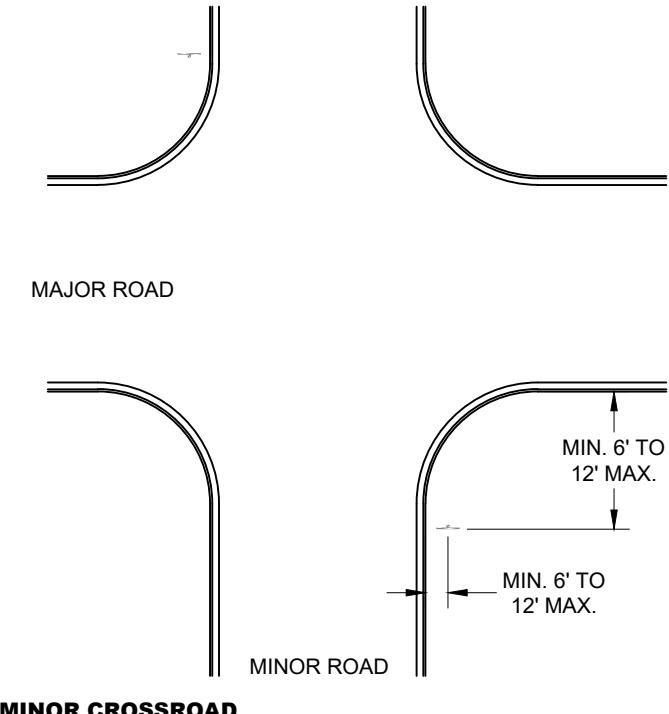
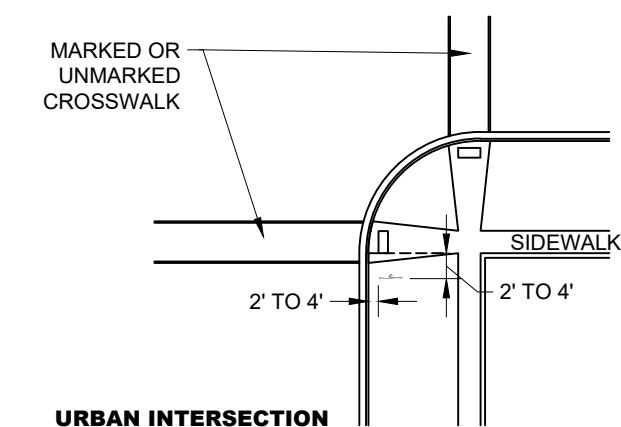
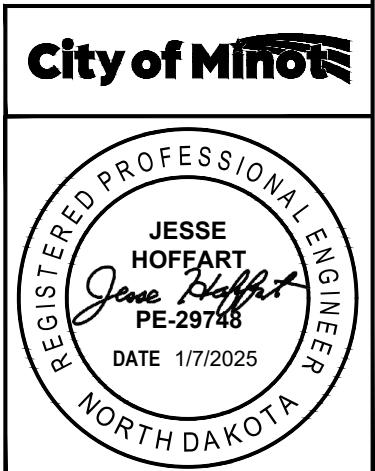
**VALLEY GUTTER TYPE B
SECTION A-A**

City of Minot



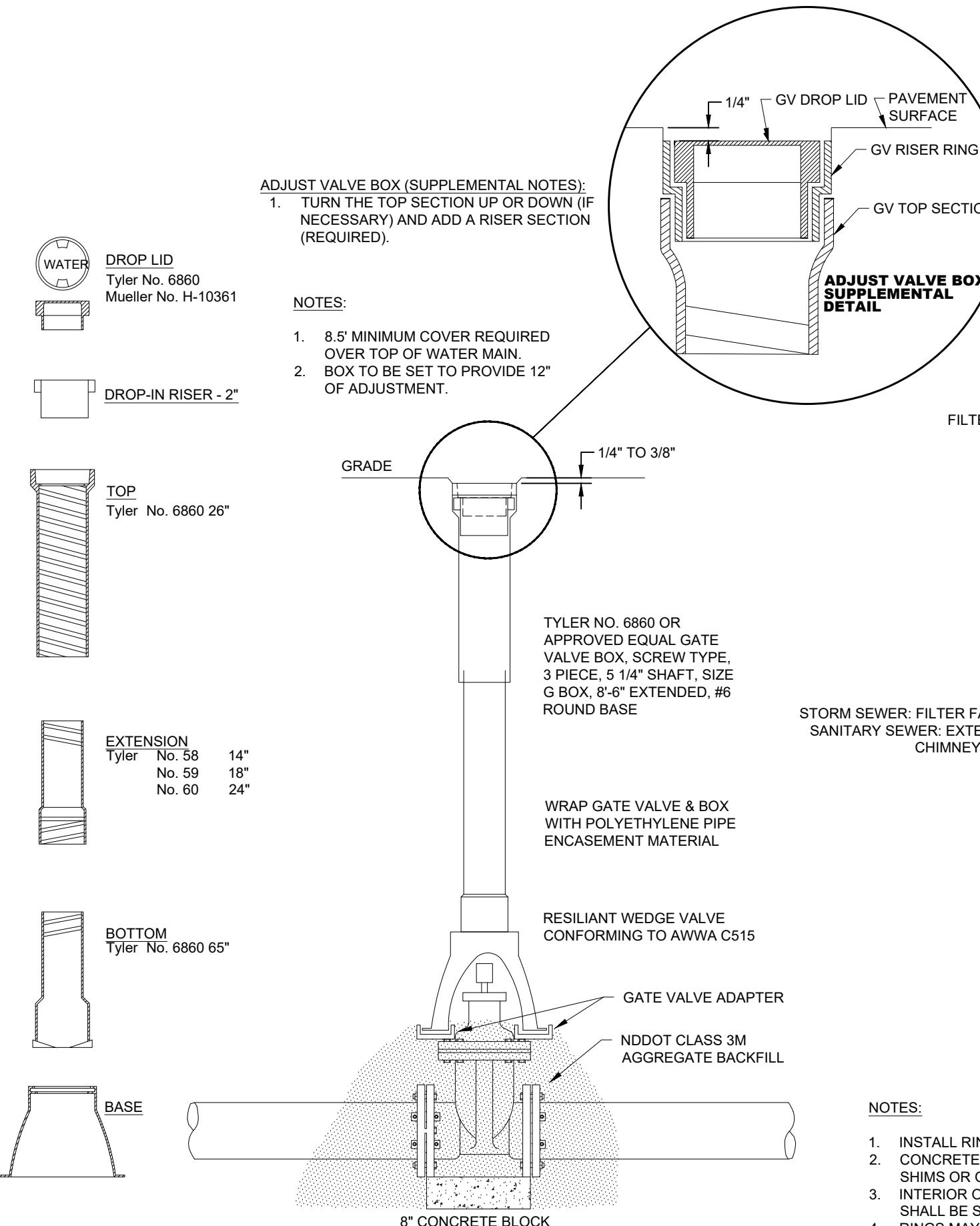
VALLEY GUTTER
DETAILS

STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(131)	23916	20	6

**SIGN IN GRASS BOULEVARD****SIGN IN CONCRETE****TYPICAL SIGN INSTALLATION
LATERAL LOCATIONS****MINOR CROSSROAD****URBAN INTERSECTION****TYPICAL SIGN INSTALLATION
AT INTERSECTIONS**

**SIGN INSTALLATION
DETAILS**

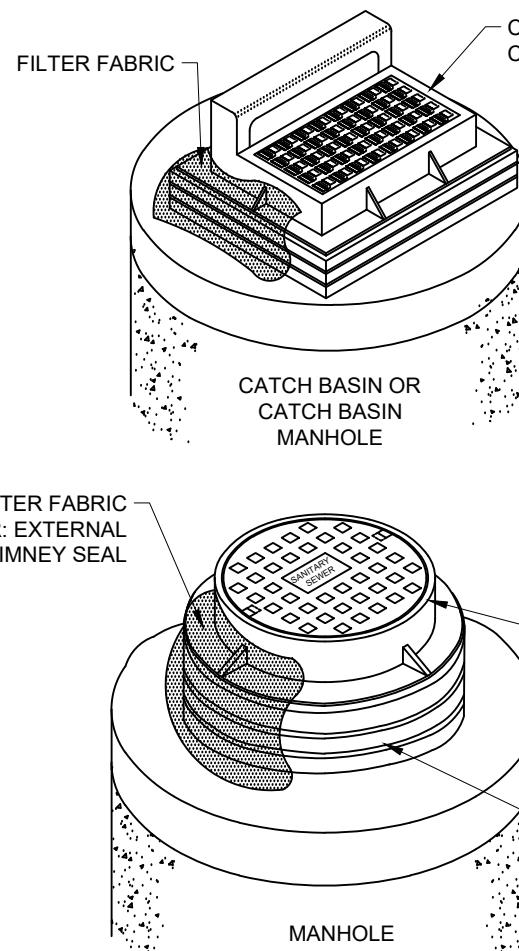
GATE VALVE AND BOX INSTALLATION



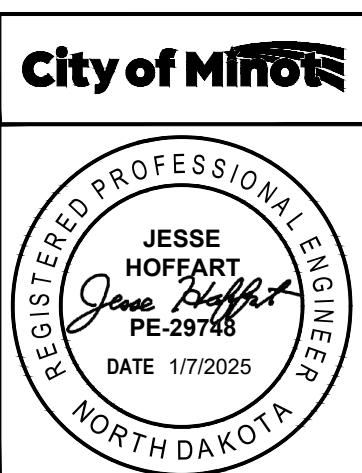
CASTING STRUCTURE ADJUSTMENT

NOTES

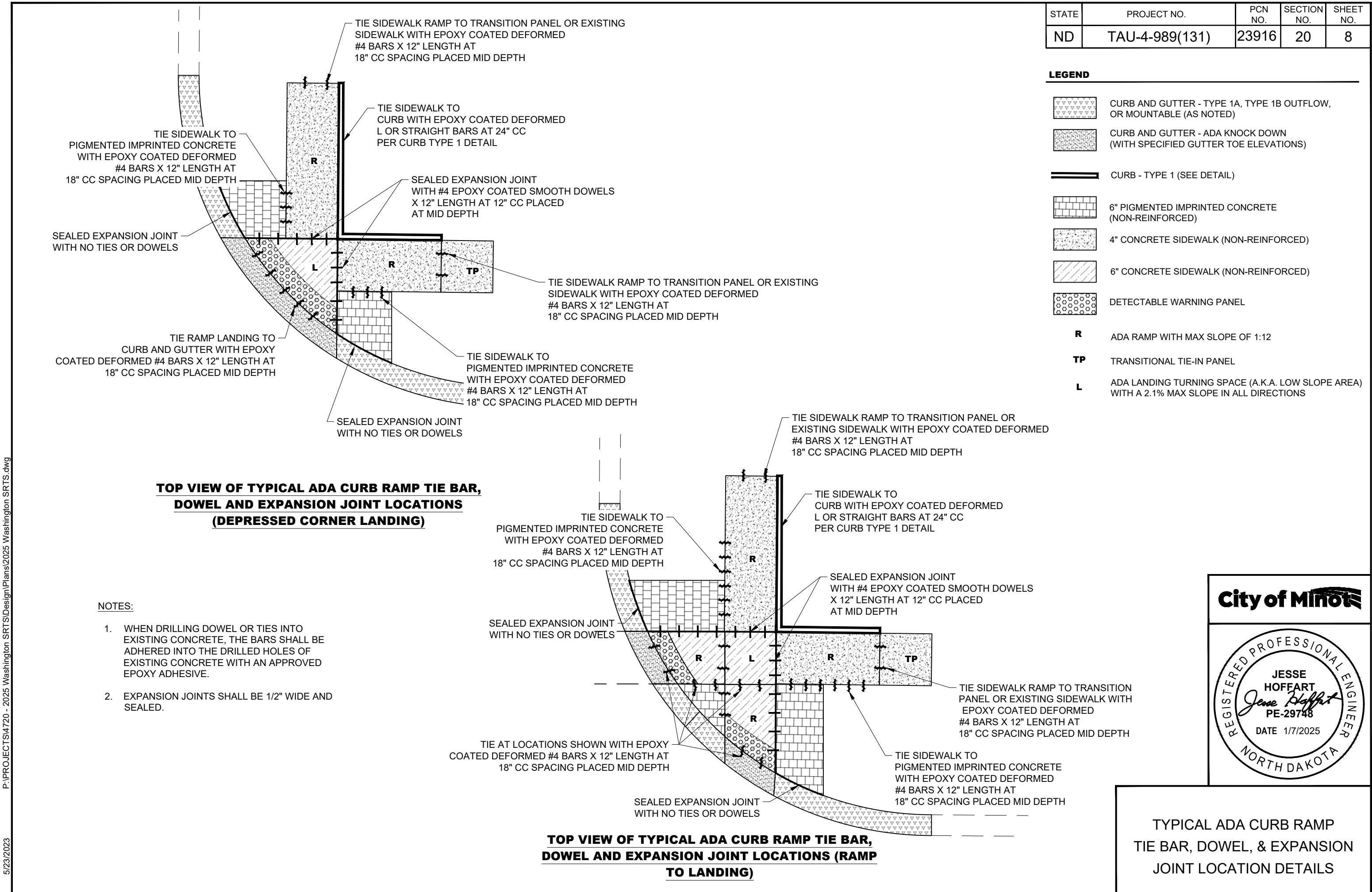
1. INSTALL RINGS TO ALLOW FOR MIN. 4", MAX. 12" OF ADJUSTMENT. (RECOMMEND 8" OF ADJUSTMENT.)
2. CONCRETE ADJUSTING RINGS SHALL BE 2" UNITS AND SHALL HAVE 3/8" MORTAR \pm 1/8". NO WOODEN SHIMS OR OTHER ORGANIC SHIMS ARE ALLOWED.
3. INTERIOR OF ADJUSTING RINGS SHALL BE NEATLY MORTARED. THE VOID UNDERNEATH THE CASTING SHALL BE SEALED WITH MORTAR. RINGS SHALL BE WIPE CLEAN.
4. RINGS MAY BE INSTALLED WITH A TOTAL OFFSET FROM VERTICAL OF UP TO 2" PER STRUCTURE.
5. WHEN USING ENGINEERED POLYMER RINGS, USE AT LEAST 2 RINGS TO MAKE ADJUSTMENT. USE SLOPED RINGS, NO SHIMS ALLOWED.
6. TOP OF FRAME SHALL BE DOWN 1/4" TO 3/8" FROM FINISHED PAVEMENT EXCEPT 1" BELOW GUTTER GRADE



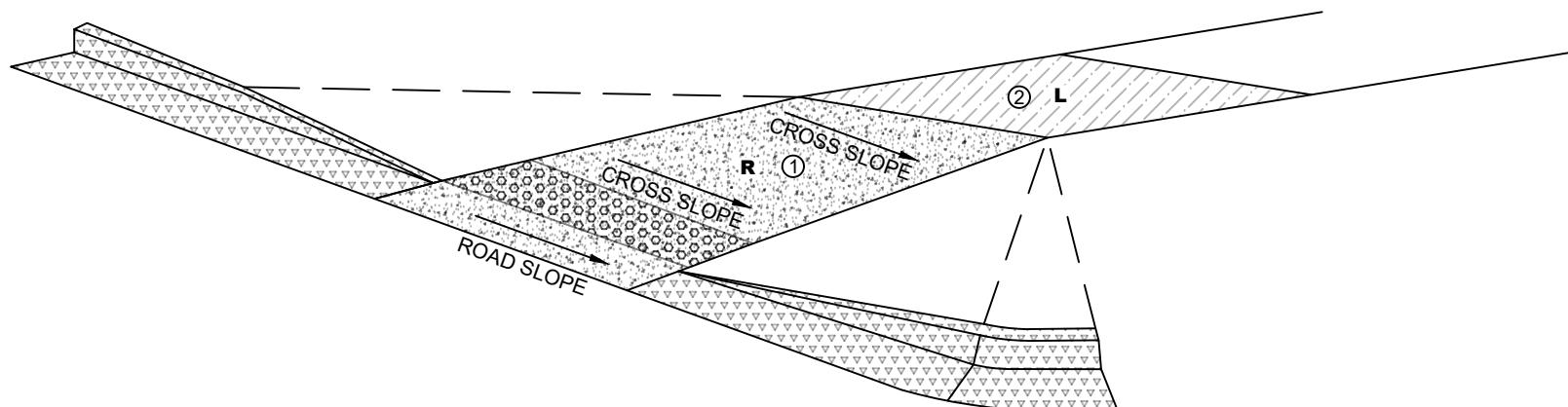
CURB BOX PROTECTION



VALVE BOX & CASTING ADJUSTMENT DETAILS



STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(131)	23916	20	9



WARPED TRANSITION RAMP

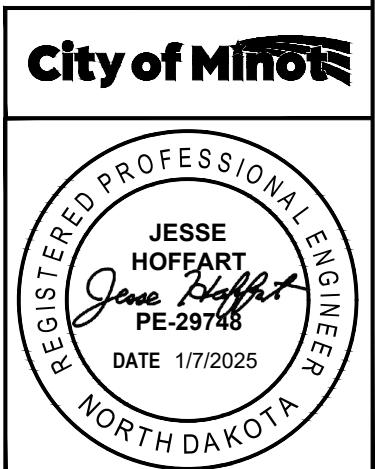
NOTES:

1. THIS DETAIL IS MEANT TO BE USED FOR MAKING A CURB RAMP NEXT TO A ROAD THAT HAS A RUNNING SLOPE GREATER THAN 2.1%. THIS DESIGN WILL GRADUALLY TRANSITION THIS STEEPER ROAD SLOPE INTO THE ALLOWABLE SLOPE FOR A SIDEWALK LANDING UNDER 2.1%
2. RATE OF CROSS-SLOPE TRANSITION VARIES. SEE SECTION 80 FOR MORE INFORMATION.
3. LANDING SHOULD NOT EXCEED 2.1% SLOPE IN ALL DIRECTIONS.

LEGEND

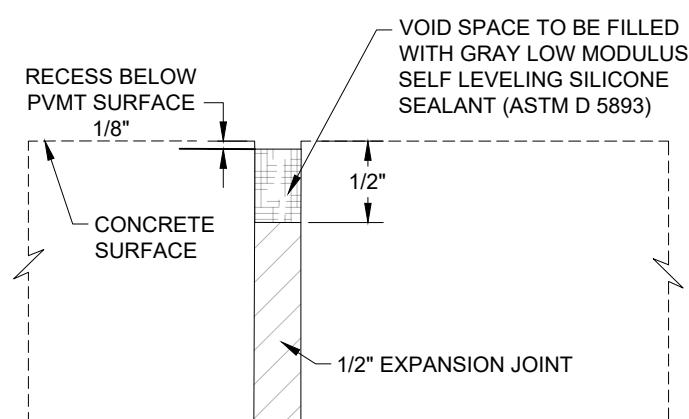
	CURB AND GUTTER - TYPE 1A, TYPE 1B OUTFLOW, OR MOUNTABLE (AS NOTED)
	CURB AND GUTTER - ADA KNOCK DOWN (WITH SPECIFIED GUTTER TOE ELEVATIONS)
	4" CONCRETE SIDEWALK (NON-REINFORCED)
	6" CONCRETE SIDEWALK (NON-REINFORCED)
	DETECTABLE WARNING PANEL

R ADA RAMP WITH MAX RUNNING SLOPE OF 1:12 (8.33%)
L ADA LANDING TURNING SPACE (A.K.A. LOW SLOPE AREA) WITH A 2.1% MAX SLOPE IN ALL DIRECTIONS



ADA TRANSITION RAMP
DETAIL

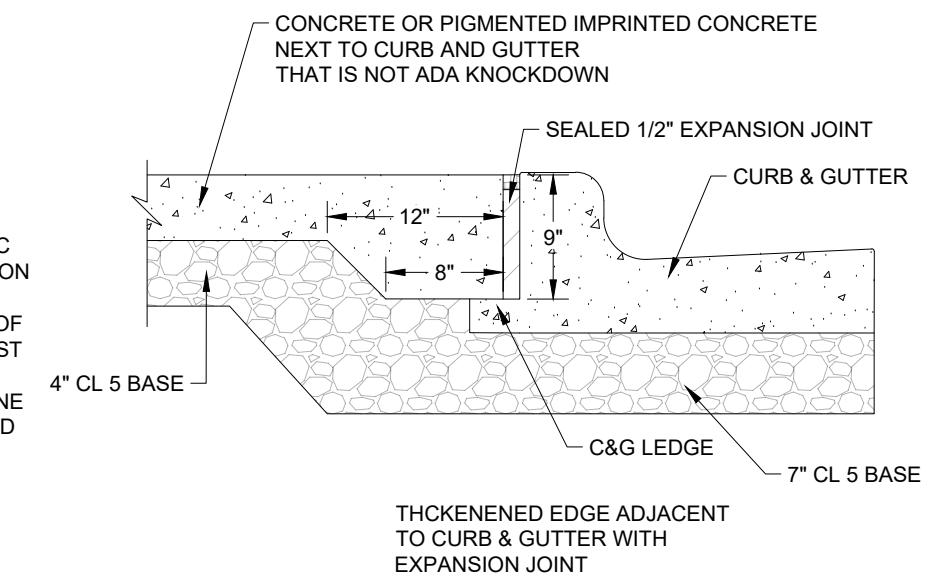
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(131)	23916	20	10



NOTES

1. AFTER REMOVAL OF PLASTIC EDGE CAPS OR TEAR STRIP ON EXPANSION JOINT TO MAKE THE VOID FOR PLACEMENT OF SILICONE SEALANT, AIR BLAST TO CLEAN ALL SIDES AND IMMEDIATELY PLACE SILICONE SEALANT TO THE CLEAN VOID SPACE.

SEALED EXPANSION JOINT

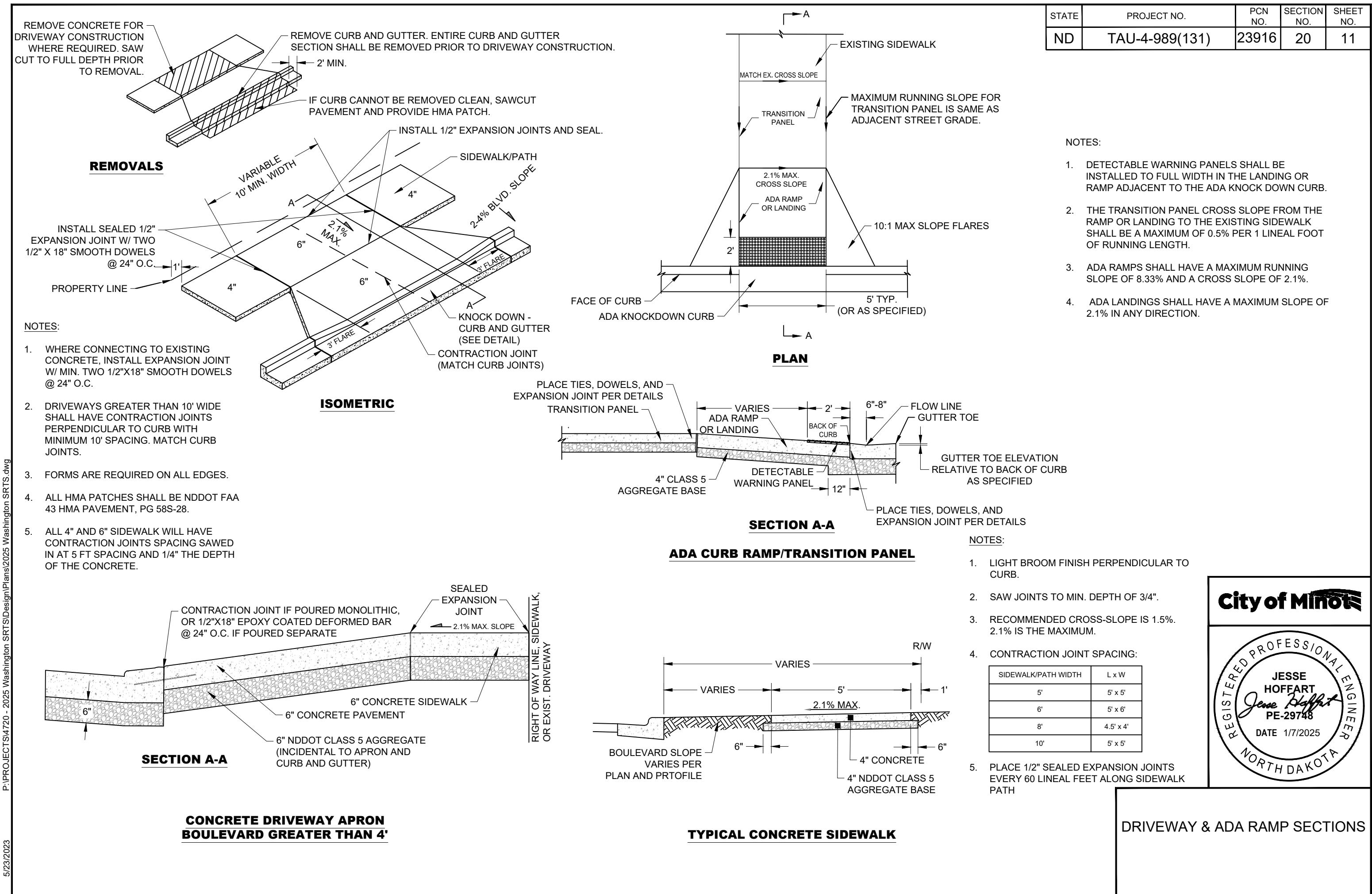


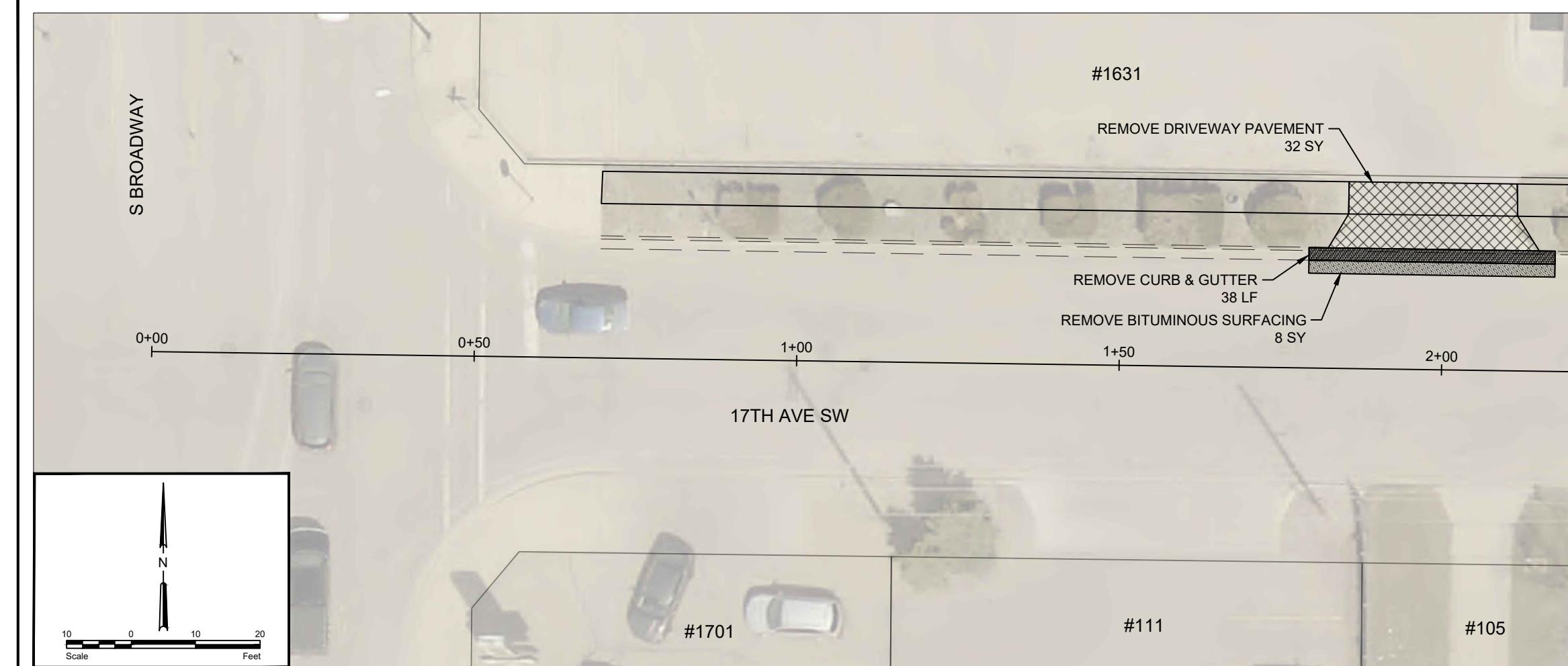
**THICKENED EDGE AND EXPANSION JOINT
(CONCRETE ADJACENT TO CURB AND GUTTER)**

City of Minot



EXPANSION JOINT
DETAILS



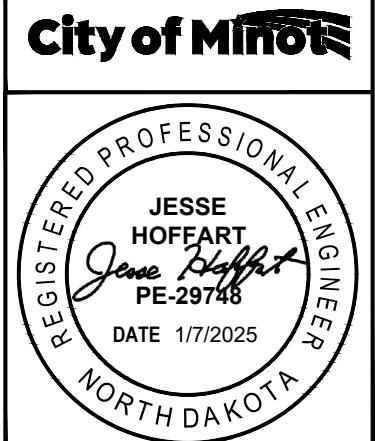
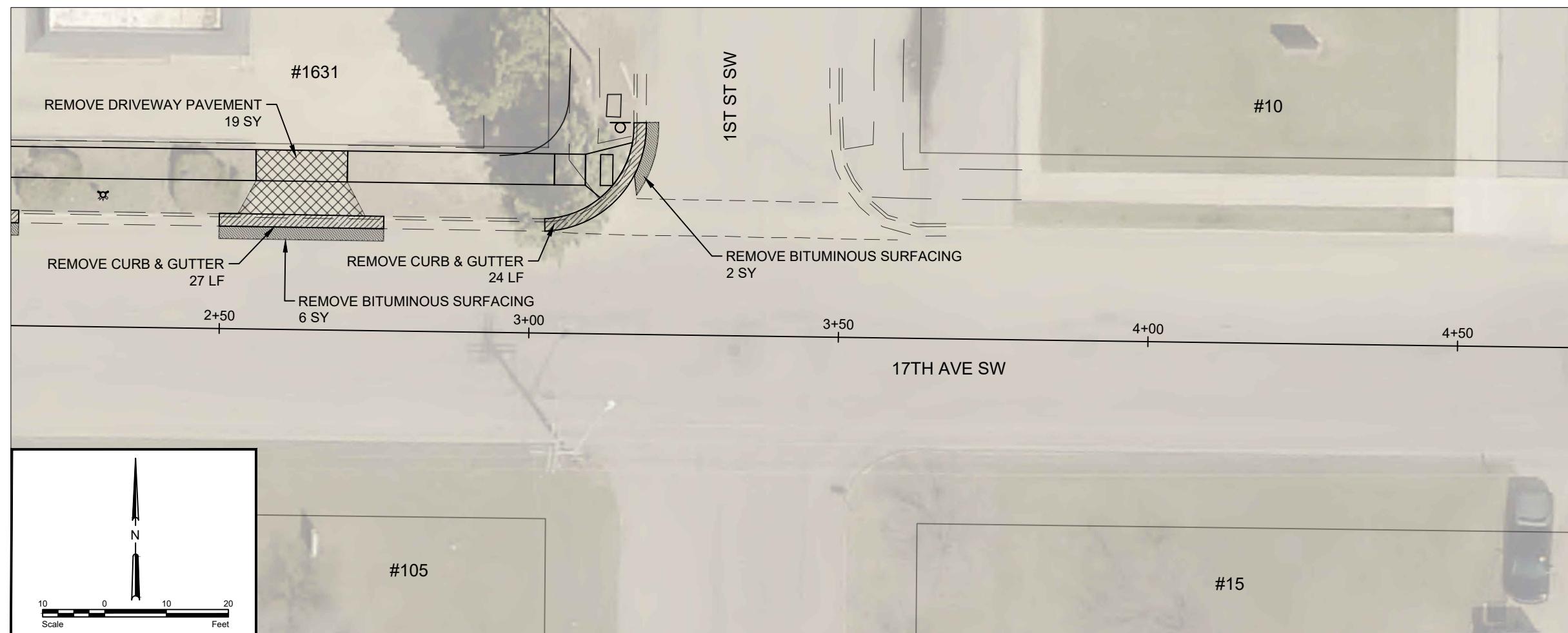


STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(131)	23916	40	1

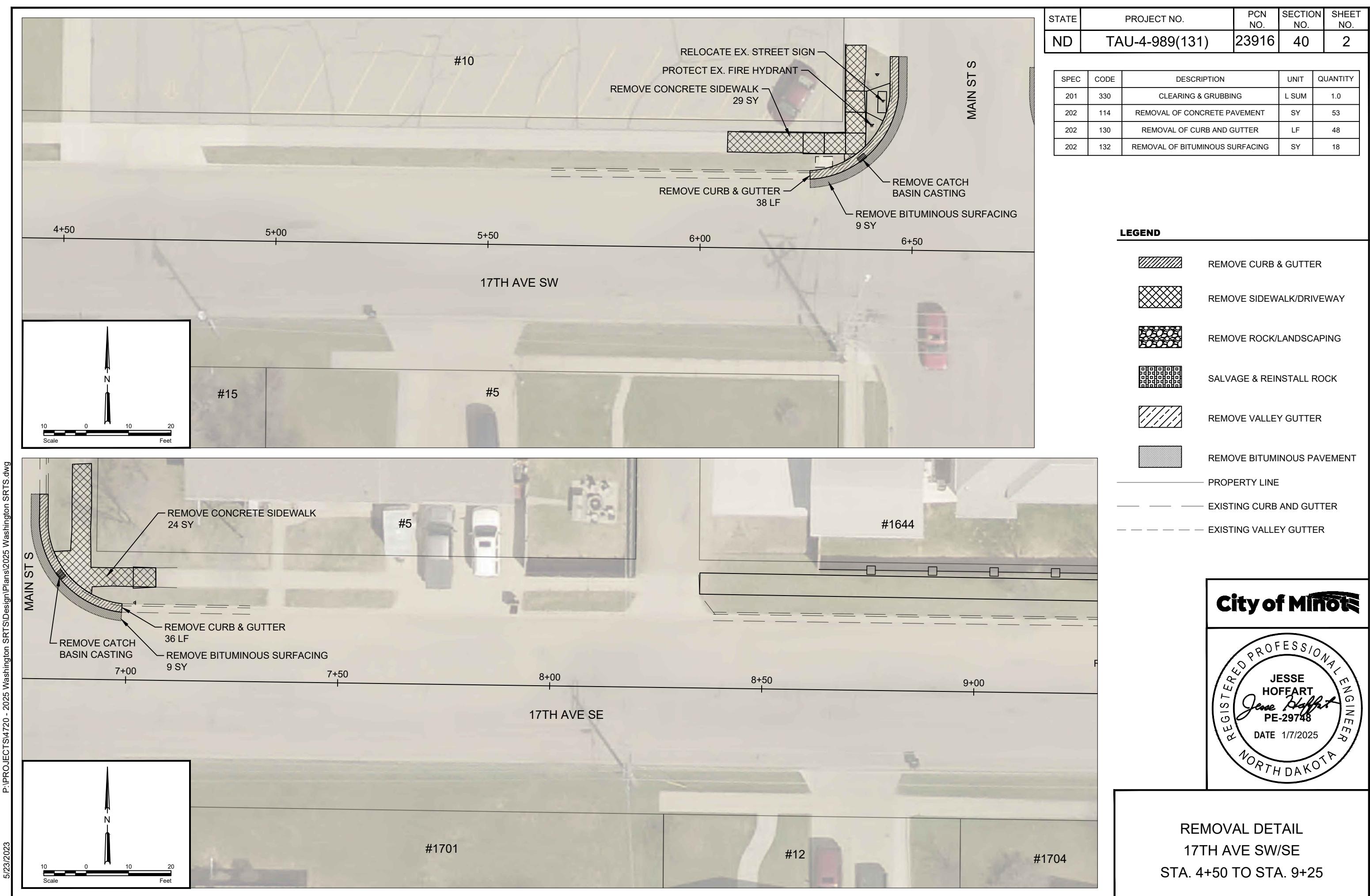
SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
201	330	CLEARING & GRUBBING	L SUM	1.0
202	114	REMOVAL OF CONCRETE PAVEMENT	SY	51
202	130	REMOVAL OF CURB AND GUTTER	LF	89
202	132	REMOVAL OF BITUMINOUS SURFACING	SY	16

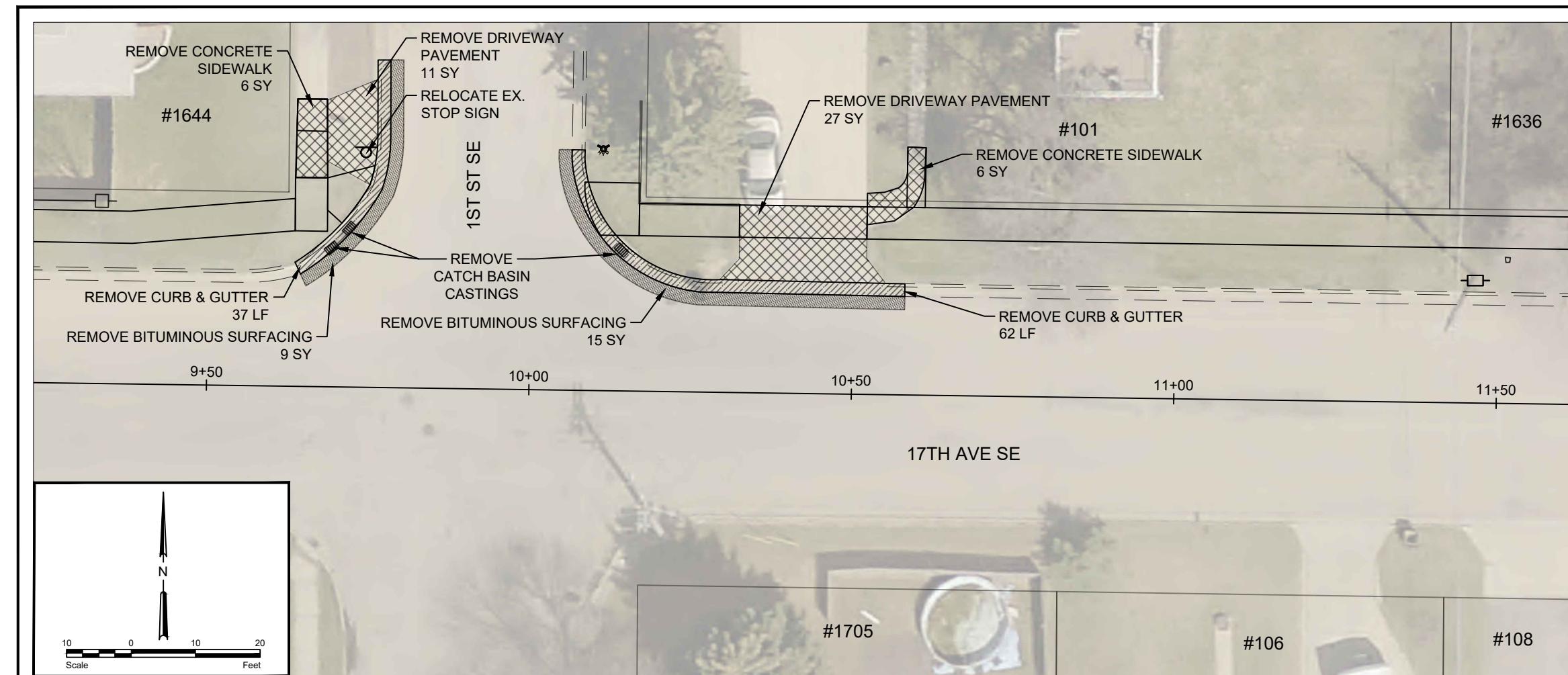
LEGEND

	REMOVE CURB & GUTTER
	REMOVE SIDEWALK/DRIVEWAY
	REMOVE ROCK/LANDSCAPING
	SALVAGE & REINSTALL ROCK
	REMOVE VALLEY GUTTER
	REMOVE BITUMINOUS PAVEMENT
—	PROPERTY LINE
—	EXISTING CURB AND GUTTER
—	EXISTING VALLEY GUTTER



REMOVAL DETAIL
17TH AVE SW
STA. 0+00 TO STA. 4+50



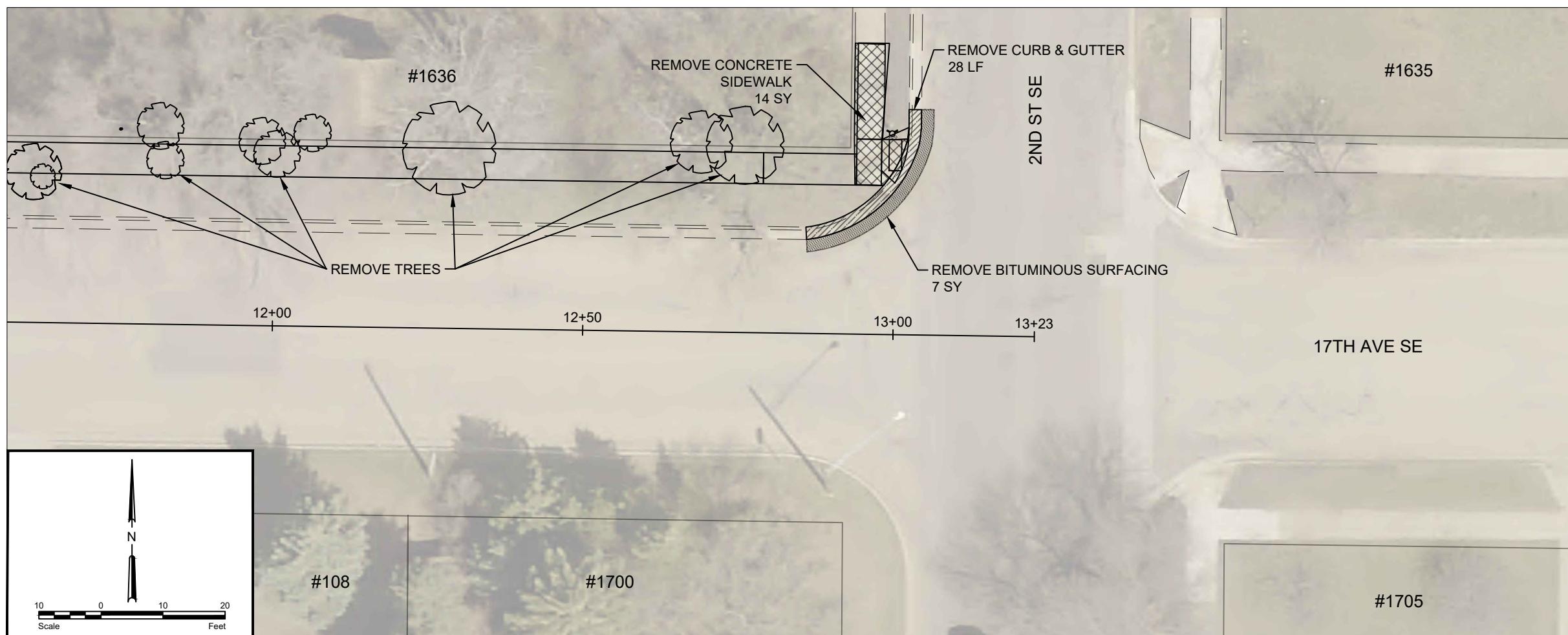


STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(131)	23916	40	3

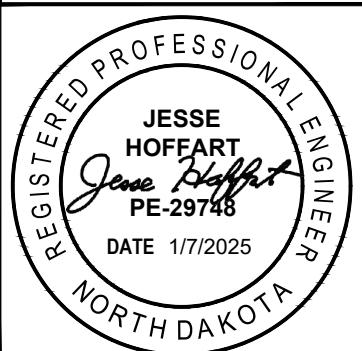
SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
201	330	CLEARING & GRUBBING	L SUM	1.0
202	114	REMOVAL OF CONCRETE PAVEMENT	SY	64
202	130	REMOVAL OF CURB AND GUTTER	LF	127
202	132	REMOVAL OF BITUMINOUS SURFACING	SY	31

LEGEND

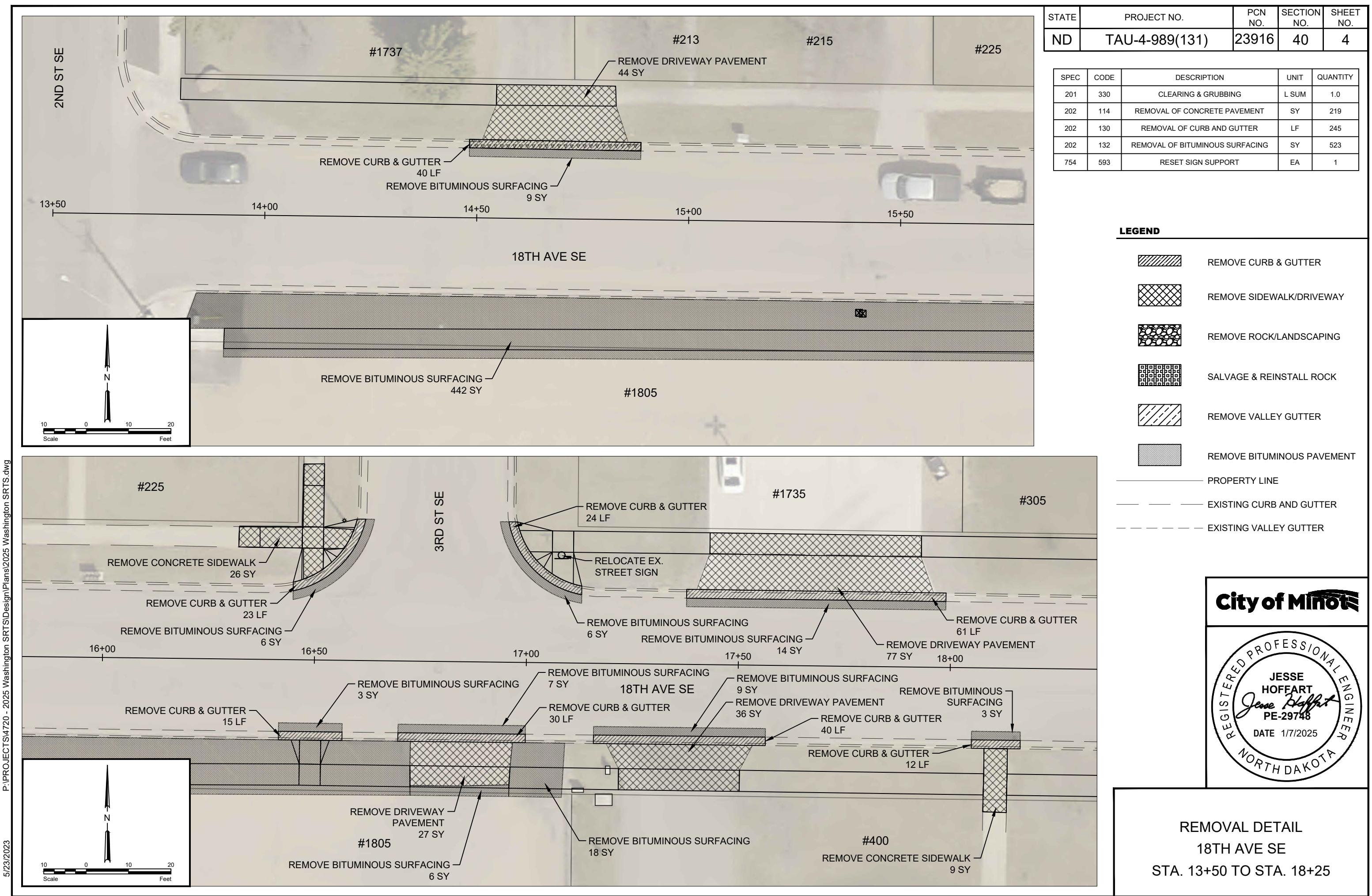
	REMOVE CURB & GUTTER
	REMOVE SIDEWALK/DRIVEWAY
	REMOVE ROCK/LANDSCAPING
	SALVAGE & REINSTALL ROCK
	REMOVE VALLEY GUTTER
	REMOVE BITUMINOUS PAVEMENT
—	PROPERTY LINE
—	EXISTING CURB AND GUTTER
—	EXISTING VALLEY GUTTER

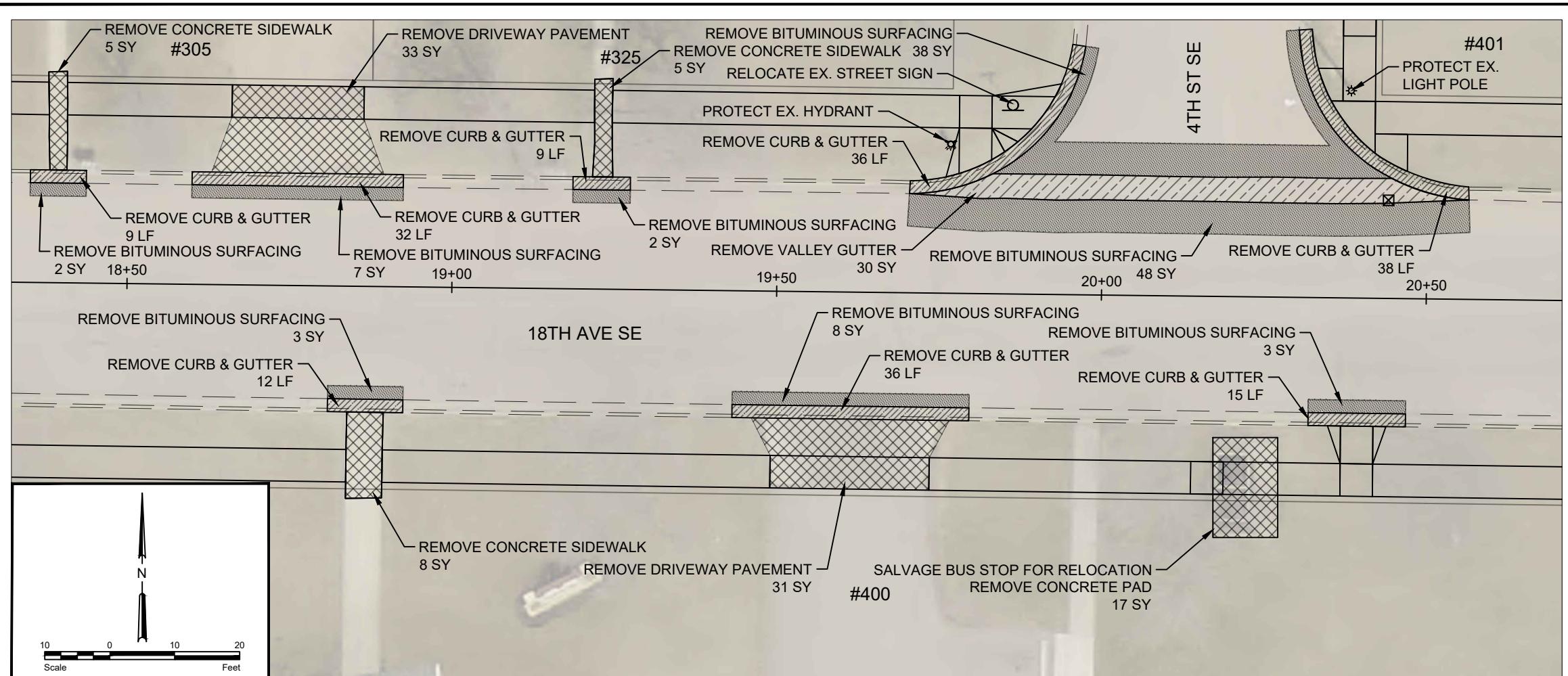


City of Minot



REMOVAL DETAIL
17TH AVE SE
STA. 9+25 TO STA. 13+23



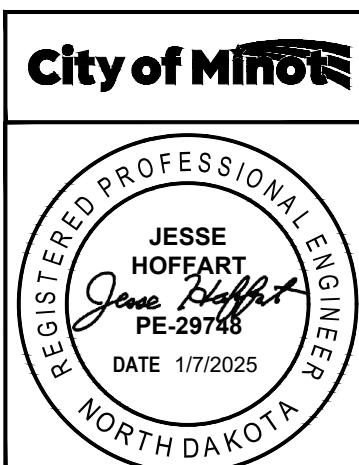


STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(131)	23916	40	5

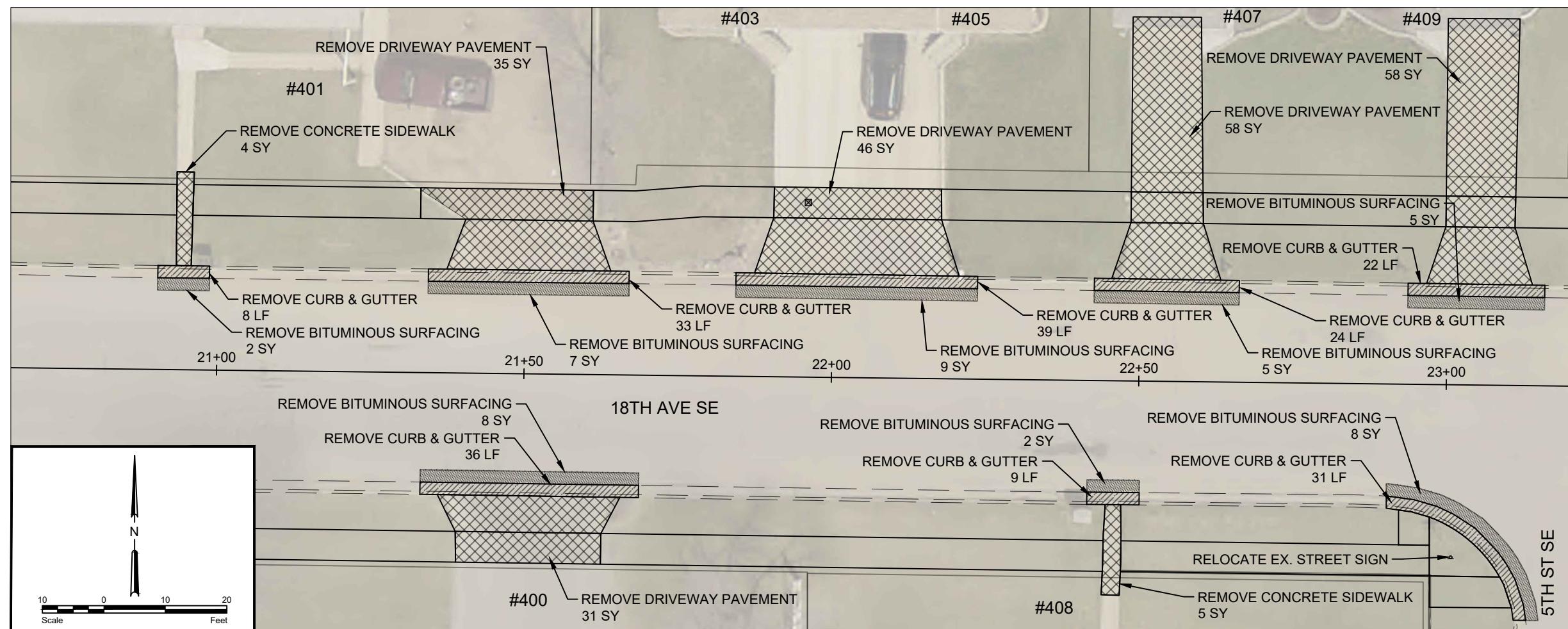
SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
201	330	CLEARING & GRUBBING	L SUM	1.0
202	114	REMOVAL OF CONCRETE PAVEMENT	SY	349
202	130	REMOVAL OF CURB AND GUTTER	LF	389
202	132	REMOVAL OF BITUMINOUS SURFACING	SY	157
754	593	RESET SIGN SUPPORT	EA	2

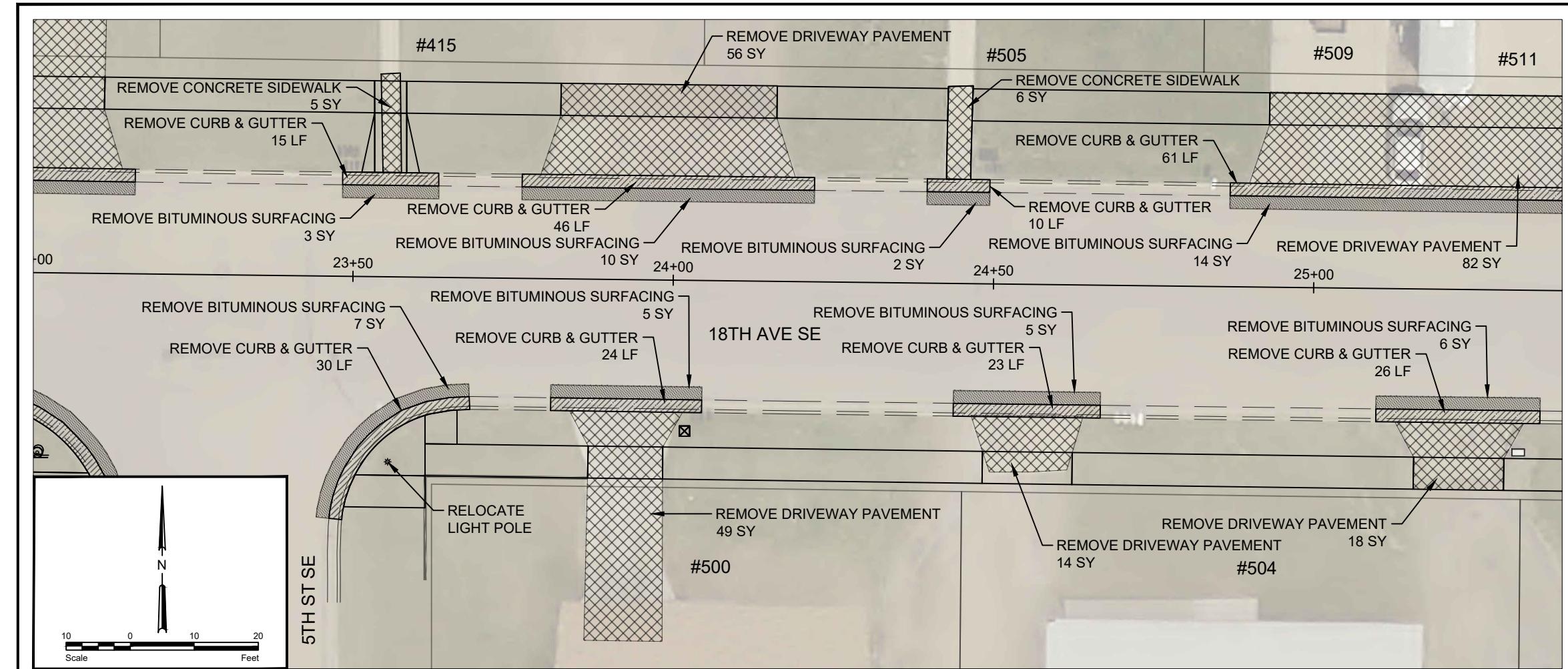
LEGEND

	REMOVE CURB & GUTTER
	REMOVE SIDEWALK/DRIVEWAY
	REMOVE ROCK/LANDSCAPING
	SALVAGE & REINSTALL ROCK
	REMOVE VALLEY GUTTER
	REMOVE BITUMINOUS PAVEMENT
—	PROPERTY LINE
—	EXISTING CURB AND GUTTER
—	EXISTING VALLEY GUTTER



REMOVAL DETAIL
18TH AVE SE
A. 18+25 TO STA. 23+00



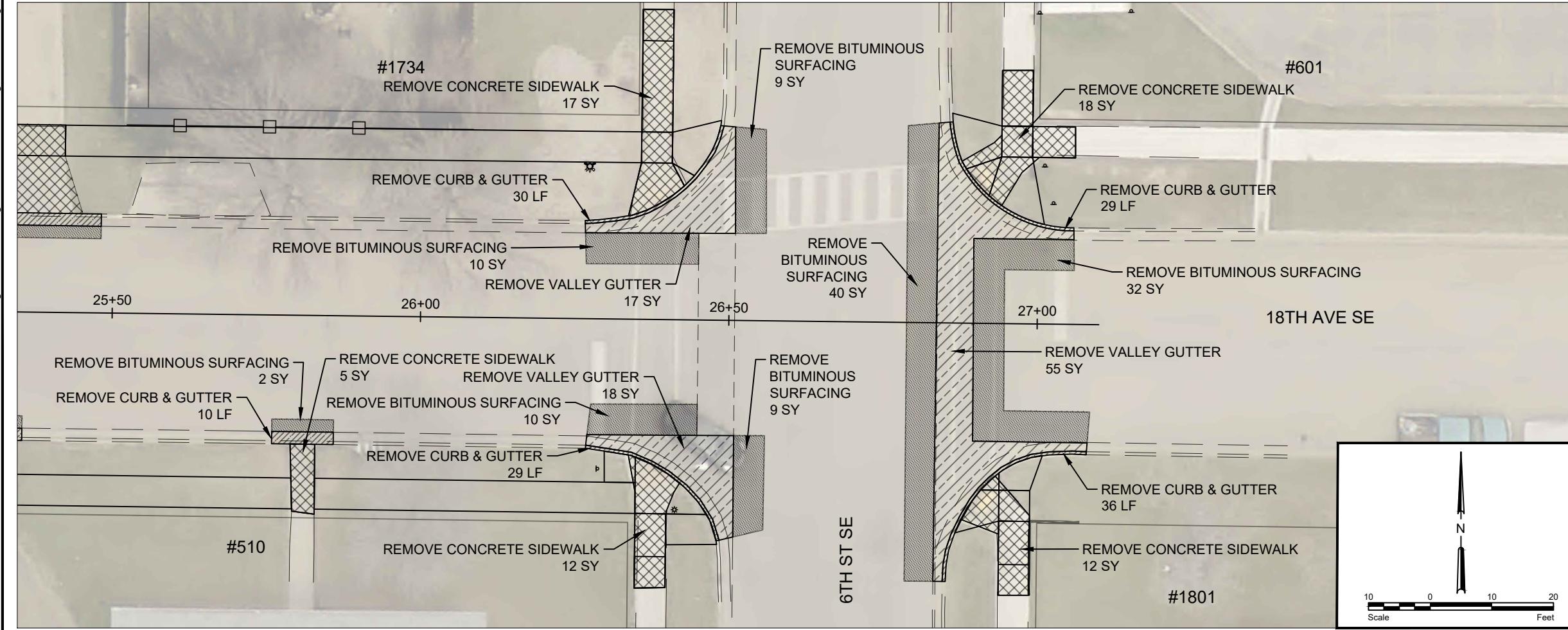
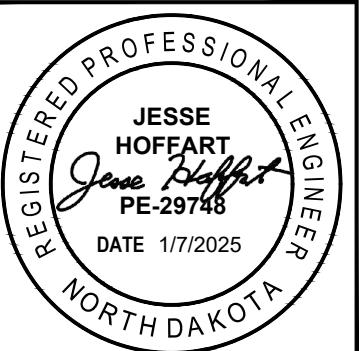


STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(131)	23916	40	6
SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
201	330	CLEARING & GRUBBING	L SUM	1.0
202	114	REMOVAL OF CONCRETE PAVEMENT	SY	298
202	130	REMOVAL OF CURB AND GUTTER	LF	369
202	132	REMOVAL OF BITUMINOUS SURFACING	SY	164

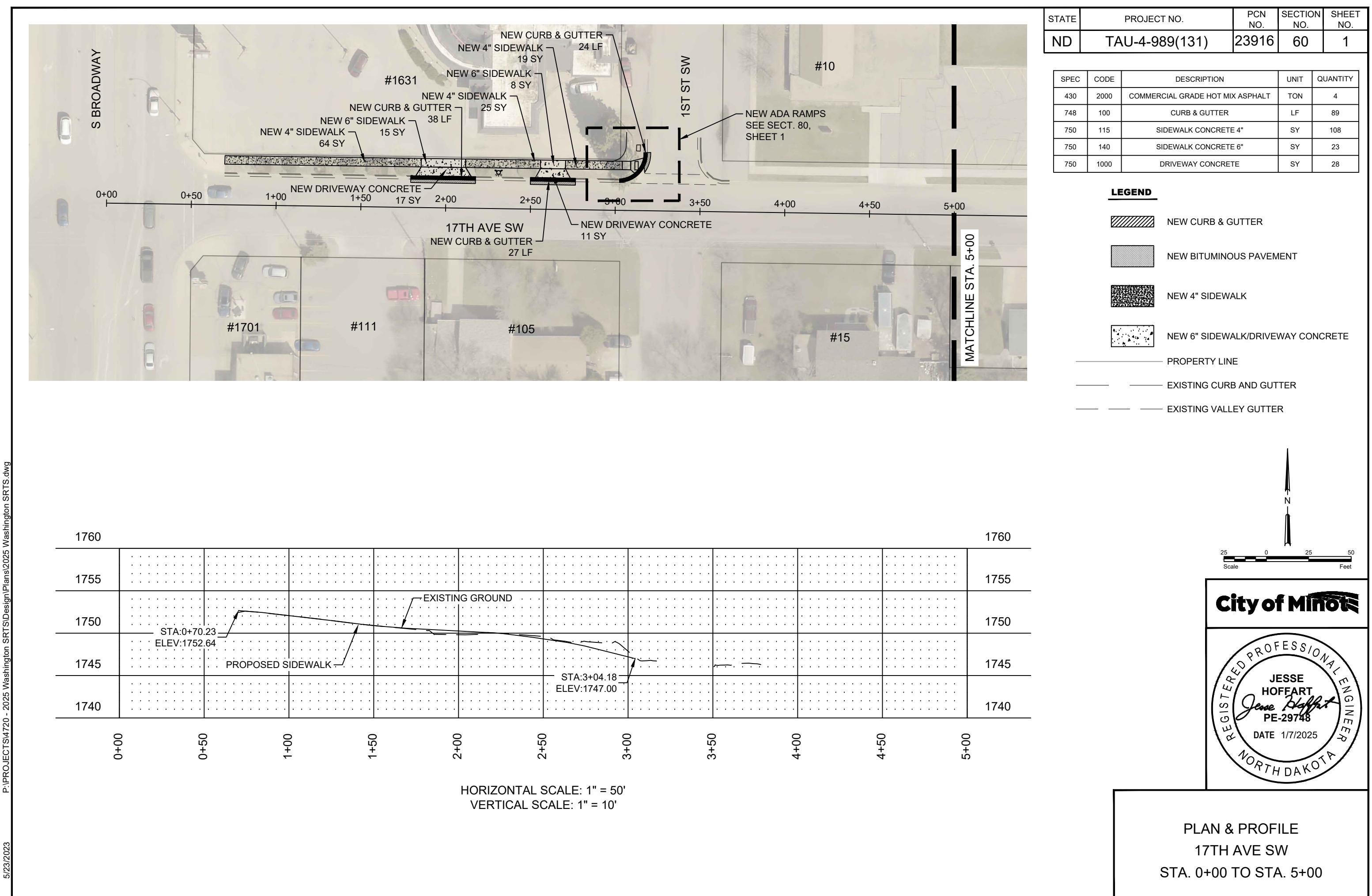
LEGEND

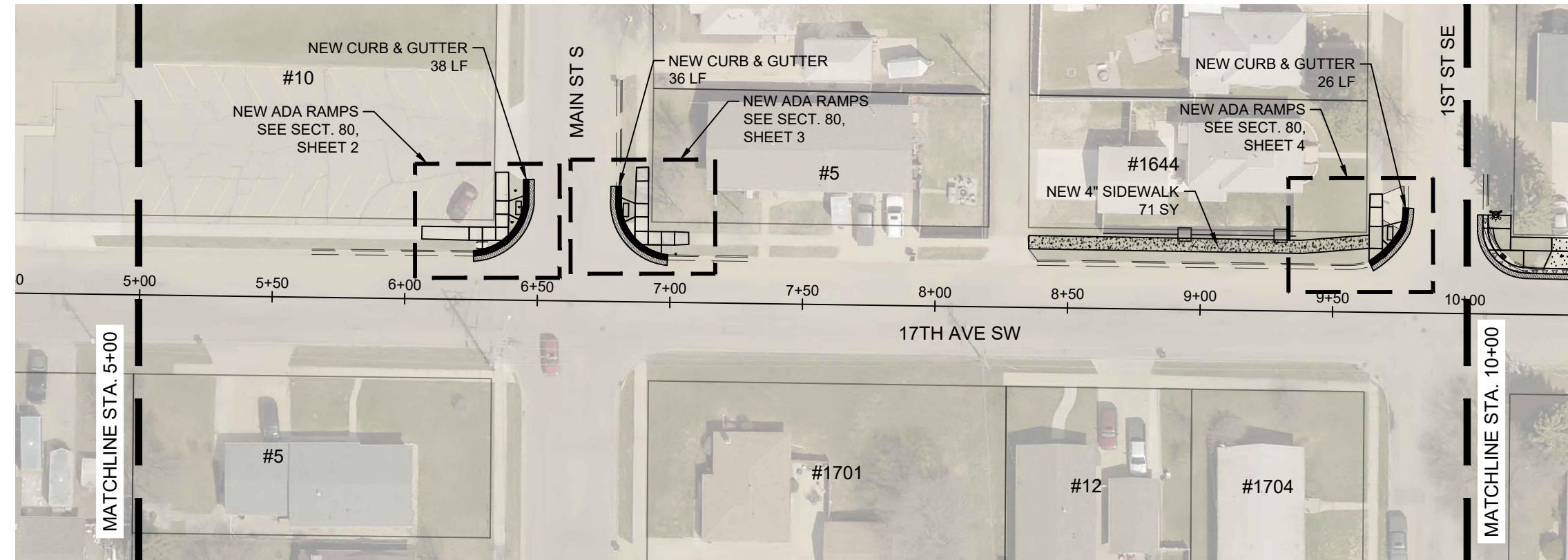
- Remove Curb & Gutter
- Remove Sidewalk/Driveway
- Remove Rock/Landscaping
- Salvage & Reinstall Rock
- Remove Valley Gutter
- Remove Bituminous Pavement
- Property Line
- Existing Curb and Gutter
- Existing Valley Gutter

City of Minot



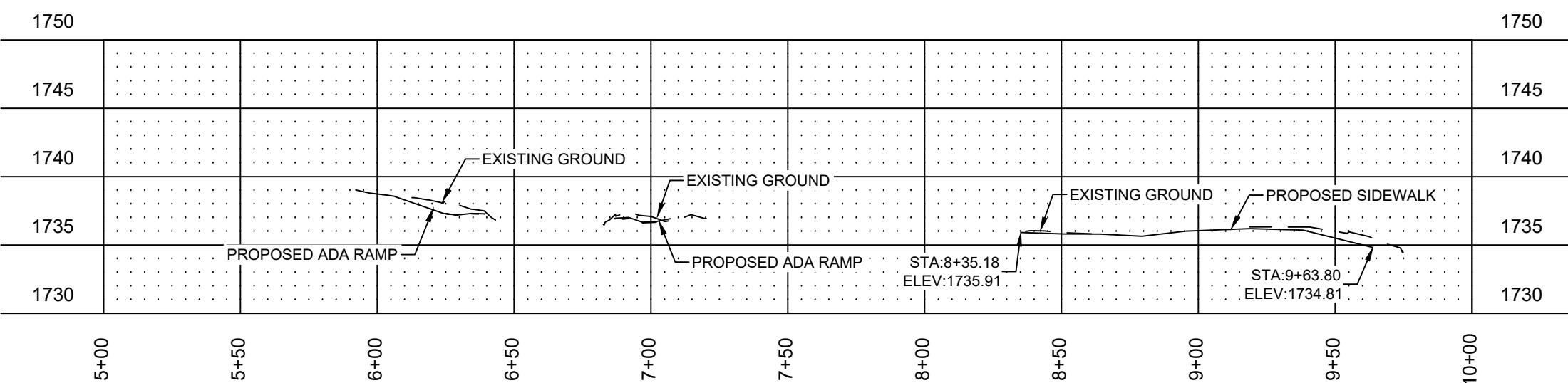
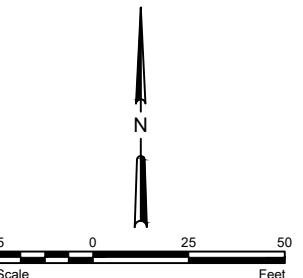
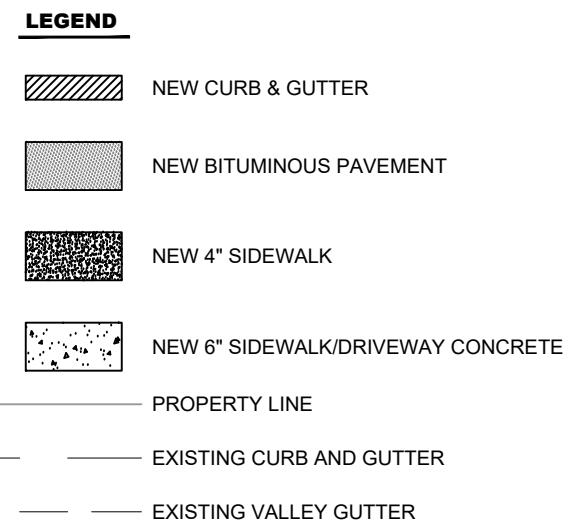
REMOVAL DETAIL
18TH AVE SE
STA. 23+00 TO STA. 27+10



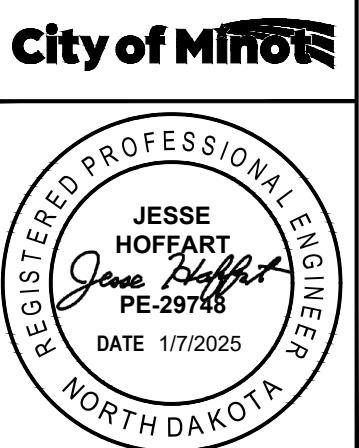


STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(131)	23916	60	2

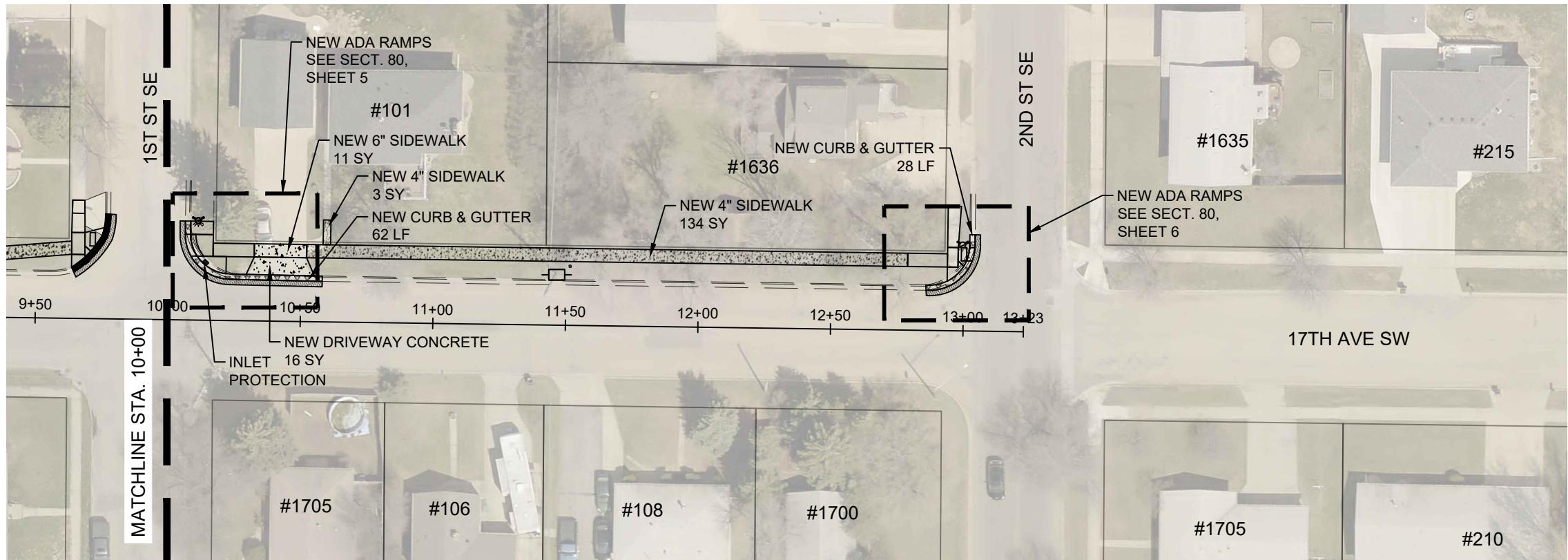
SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
430	2000	COMMERCIAL GRADE HOT MIX ASPHALT	TON	5
708	1540	INLET PROTECTION-SPECIAL	EA	4
748	100	CURB & GUTTER	LF	100
750	115	SIDEWALK CONCRETE 4"	SY	71



HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 10'

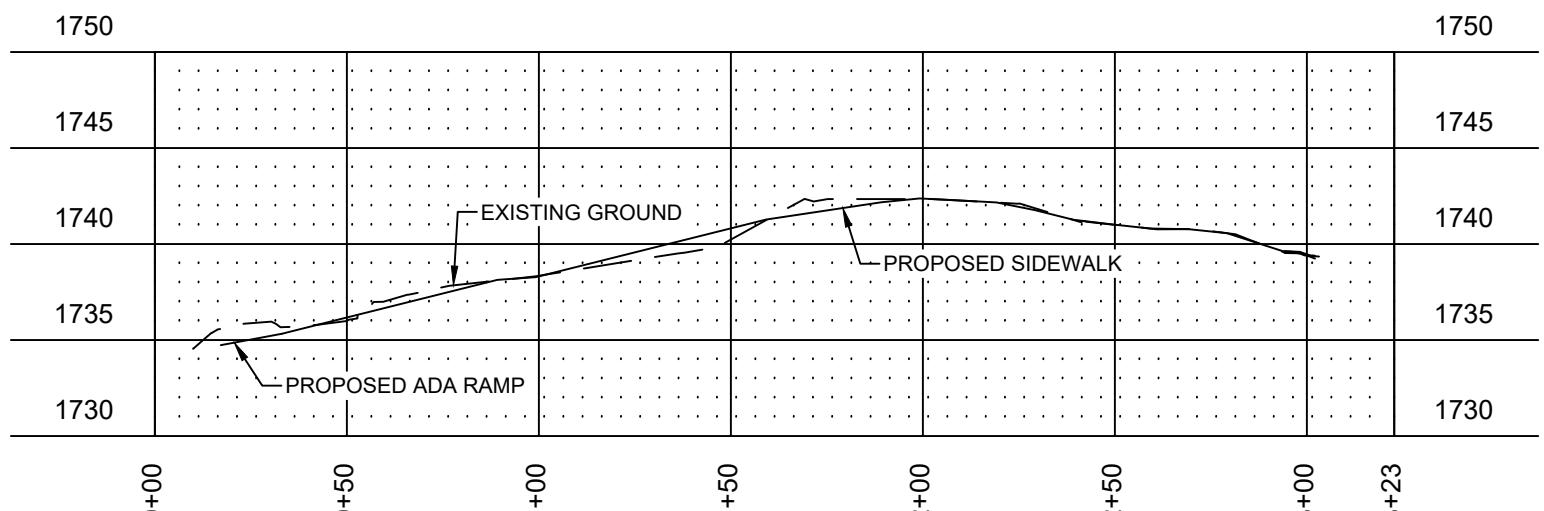
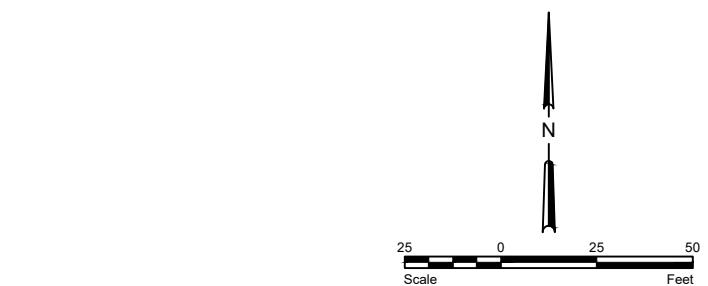
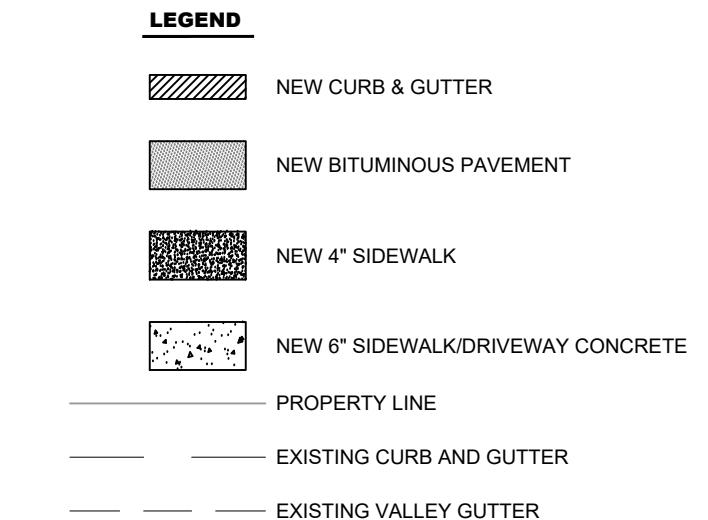


PLAN & PROFILE
17TH AVE SW
STA. 5+00 TO STA. 10+00

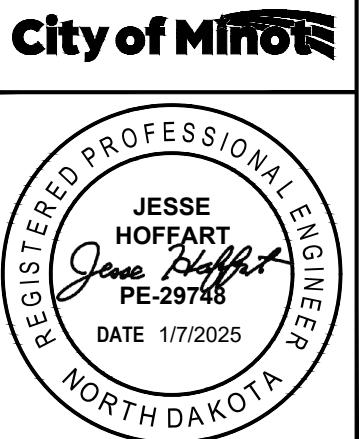


STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(131)	23916	60	3

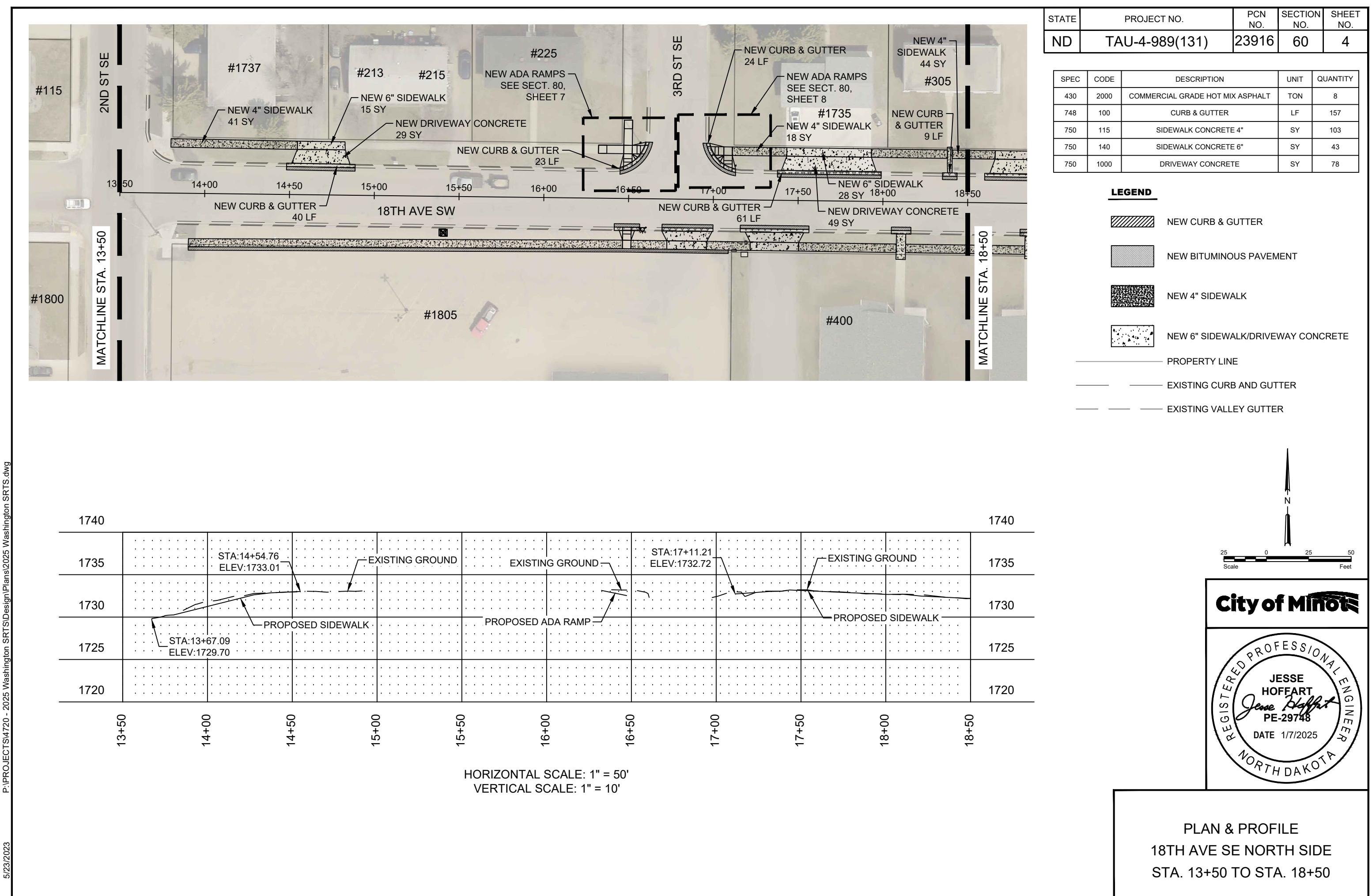
SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
430	2000	COMMERCIAL GRADE HOT MIX ASPHALT	TON	5
708	1540	INLET PROTECTION-SPECIAL	EA	1
748	100	CURB & GUTTER	LF	90
750	115	SIDEWALK CONCRETE 4"	SY	137
750	140	SIDEWALK CONCRETE 6"	SY	11
750	1000	DRIVEWAY CONCRETE	SY	16

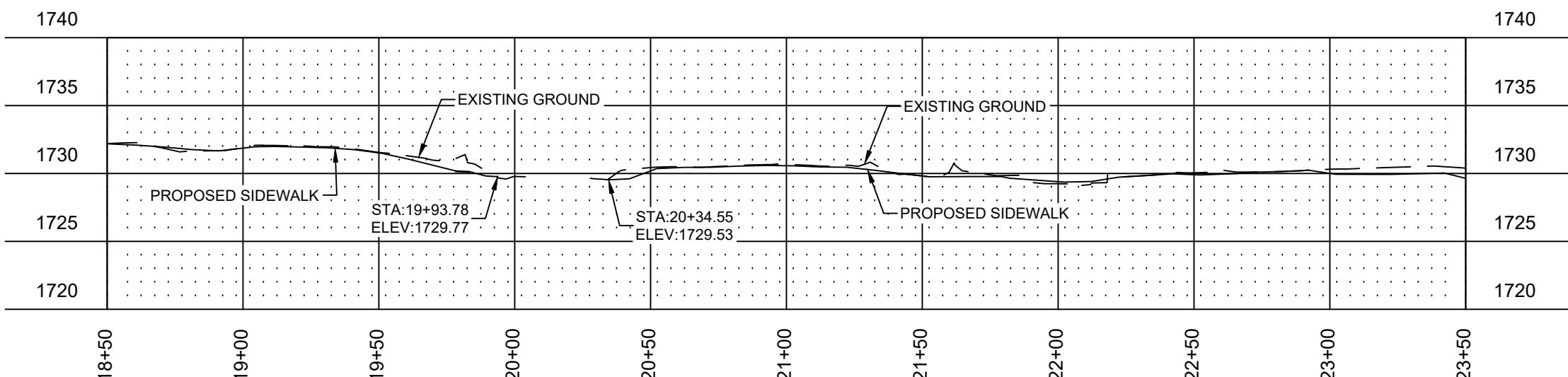
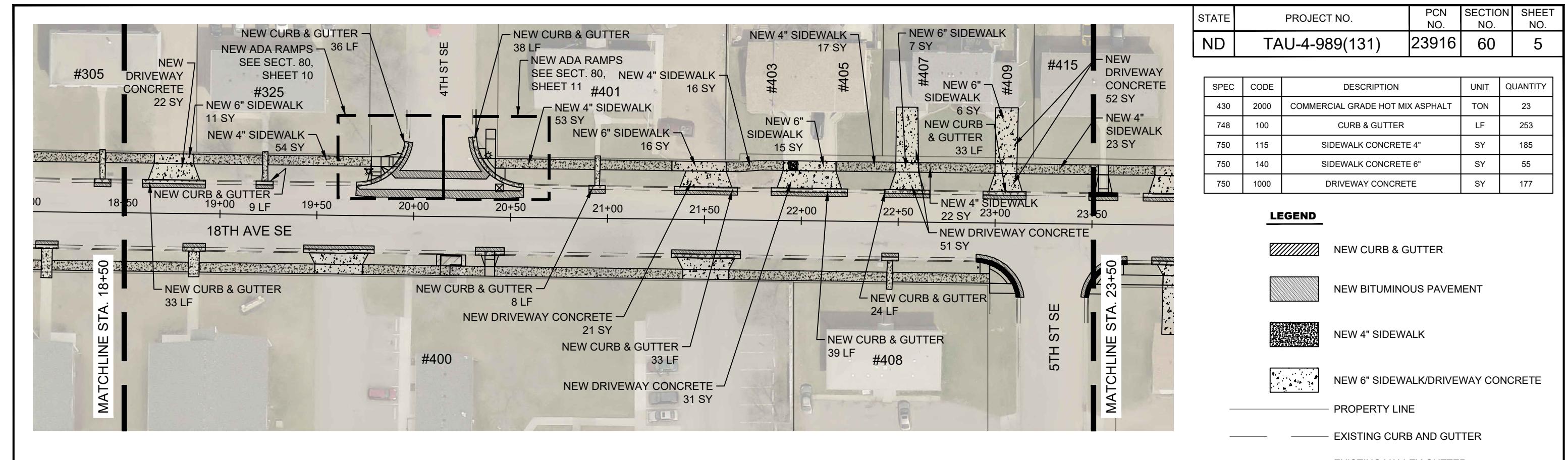


HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 10'

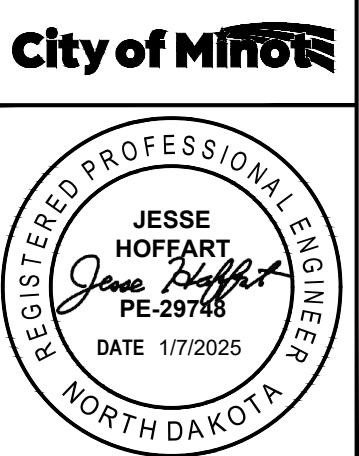
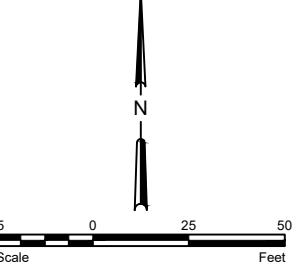


PLAN & PROFILE
17TH AVE SE
STA. 10+00 TO STA. 13+23

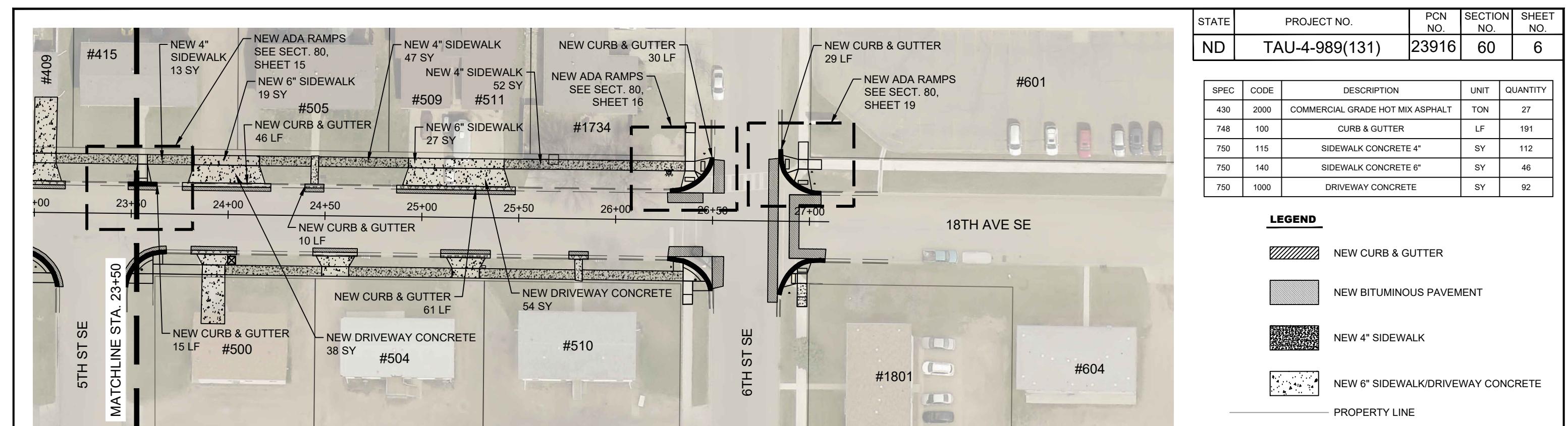




HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 10'

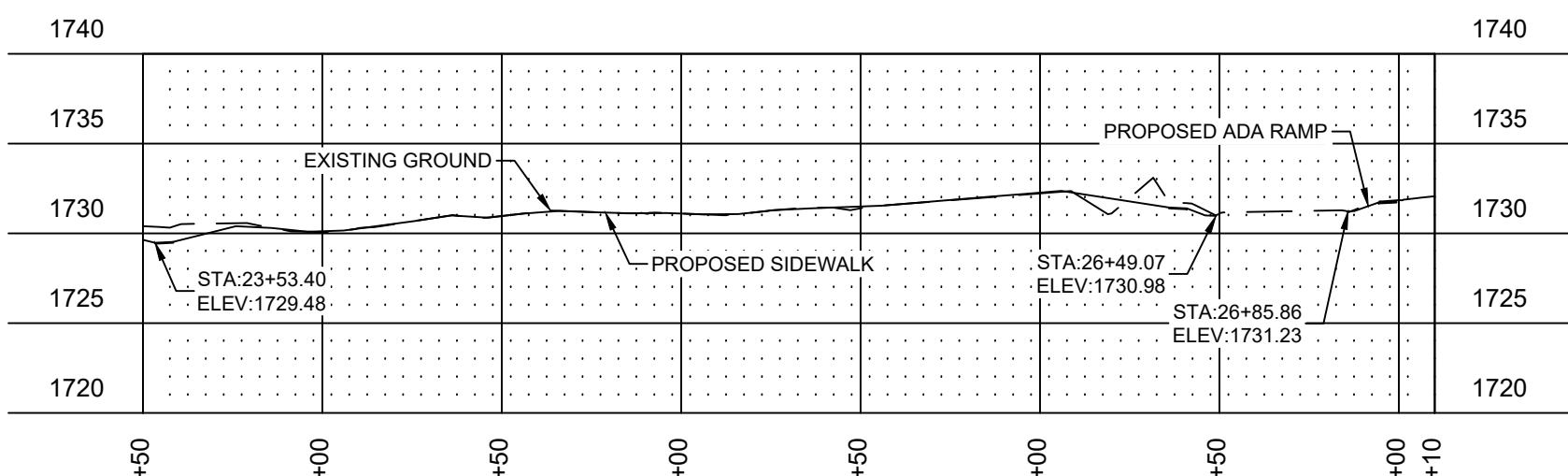


PLAN & PROFILE
18TH AVE SE NORTH SIDE
STA. 18+50 TO STA. 23+50



LEGEND

- NEW CURB & GUTTER
- NEW BITUMINOUS PAVEMENT
- NEW 4" SIDEWALK
- NEW 6" SIDEWALK/DRIVEWAY CONCRETE
- PROPERTY LINE
- EXISTING CURB AND GUTTER
- EXISTING VALLEY GUTTER



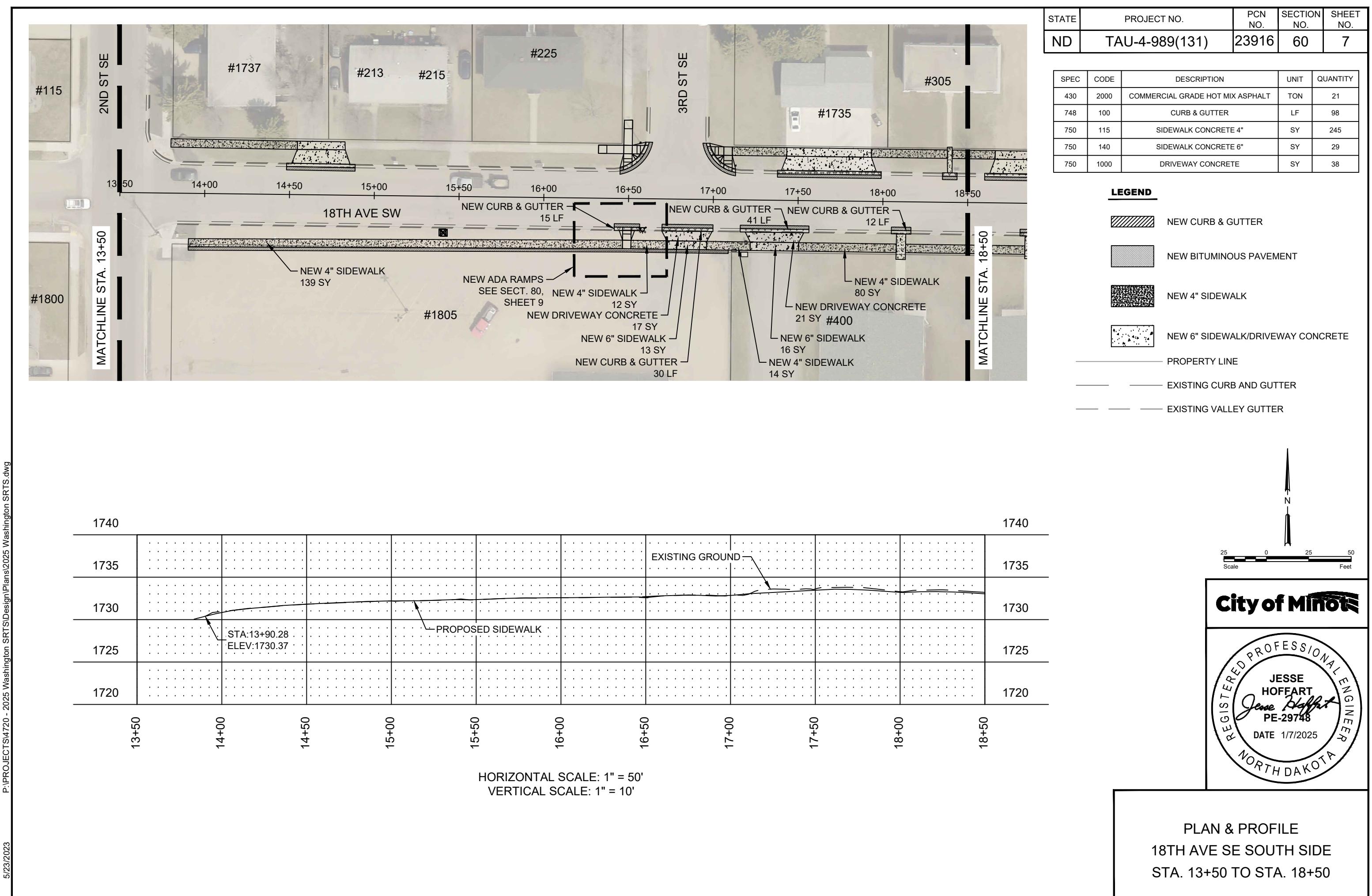
HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 10'

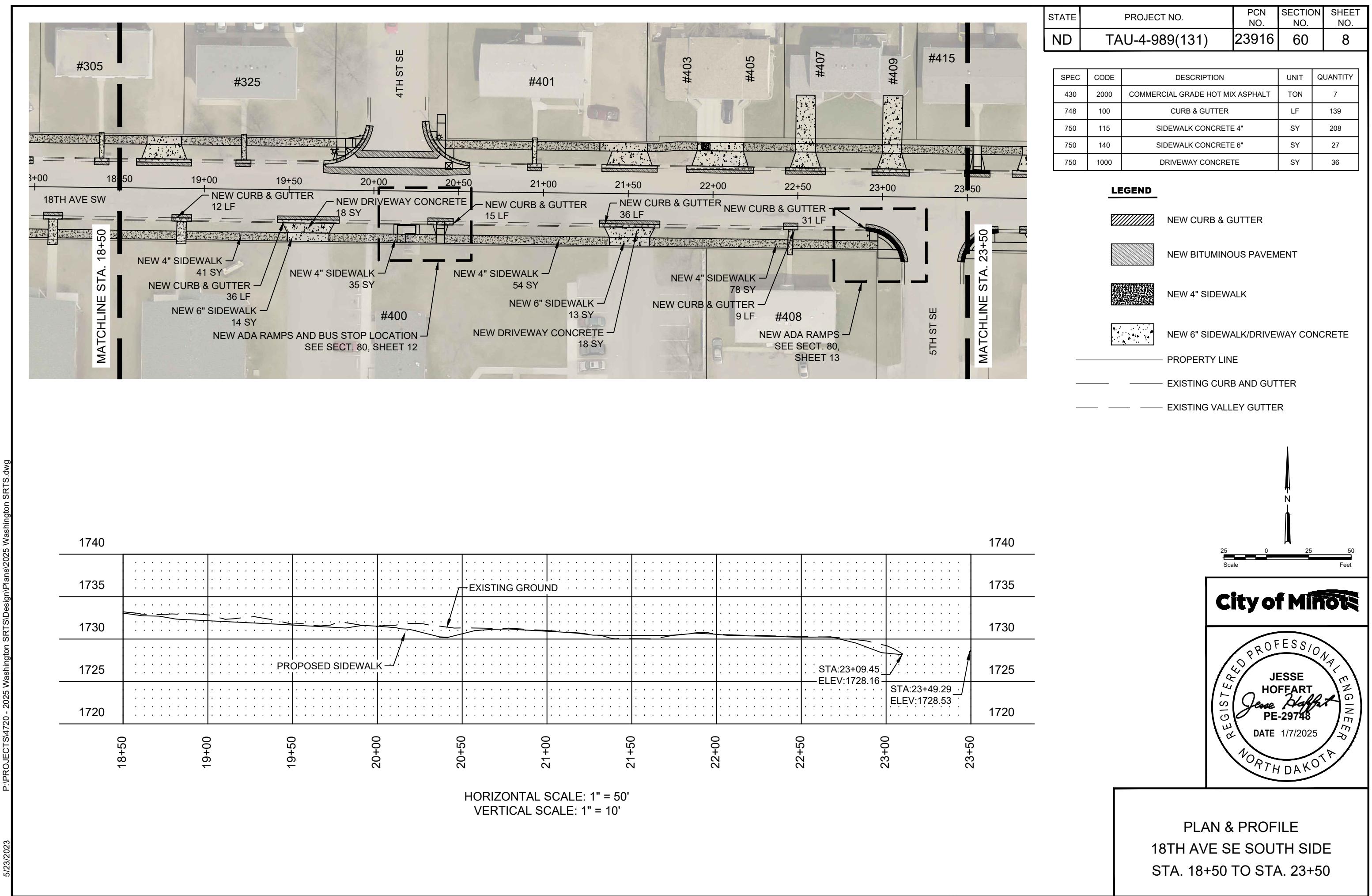
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Scale Feet

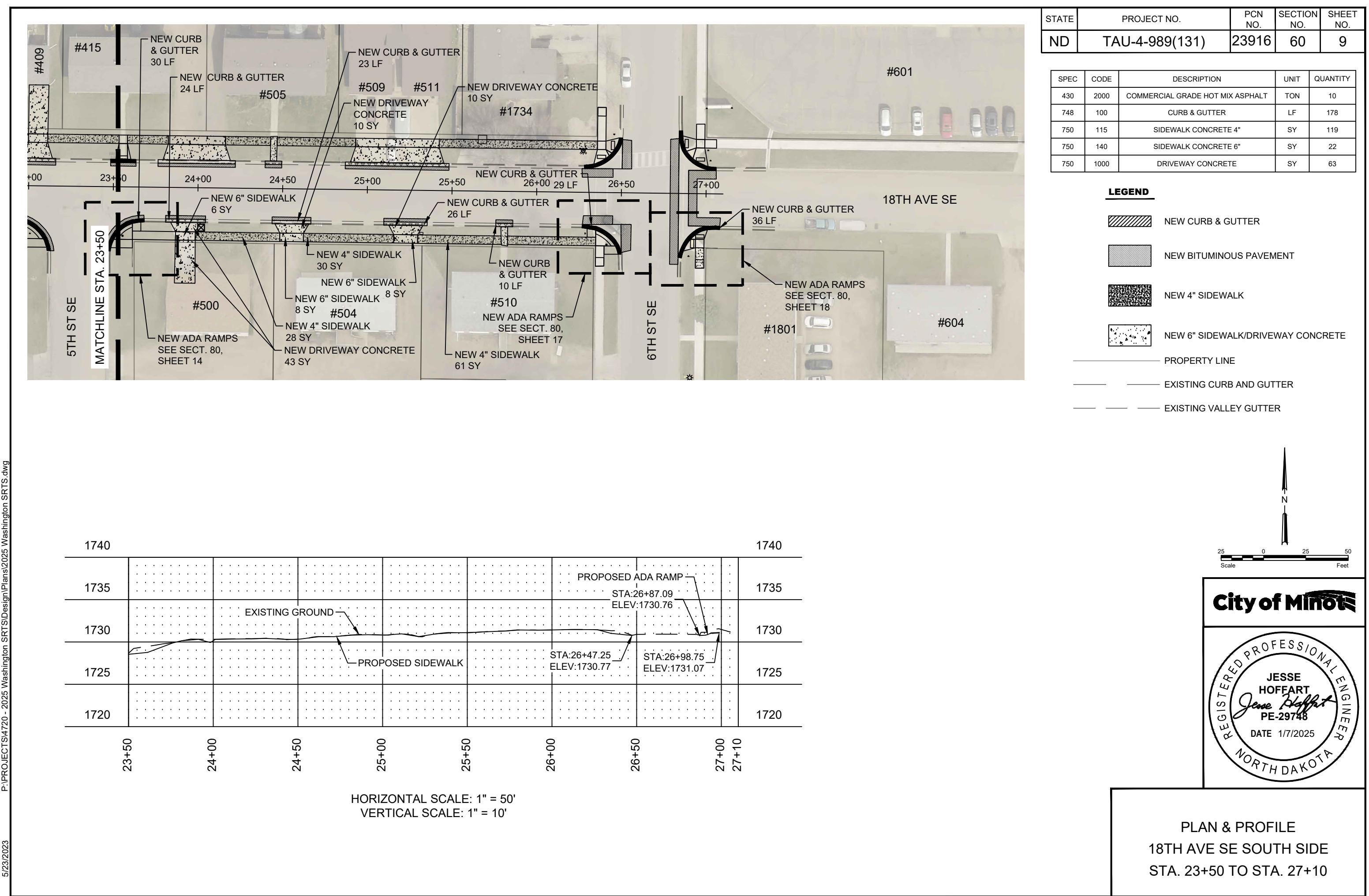
City of Minot

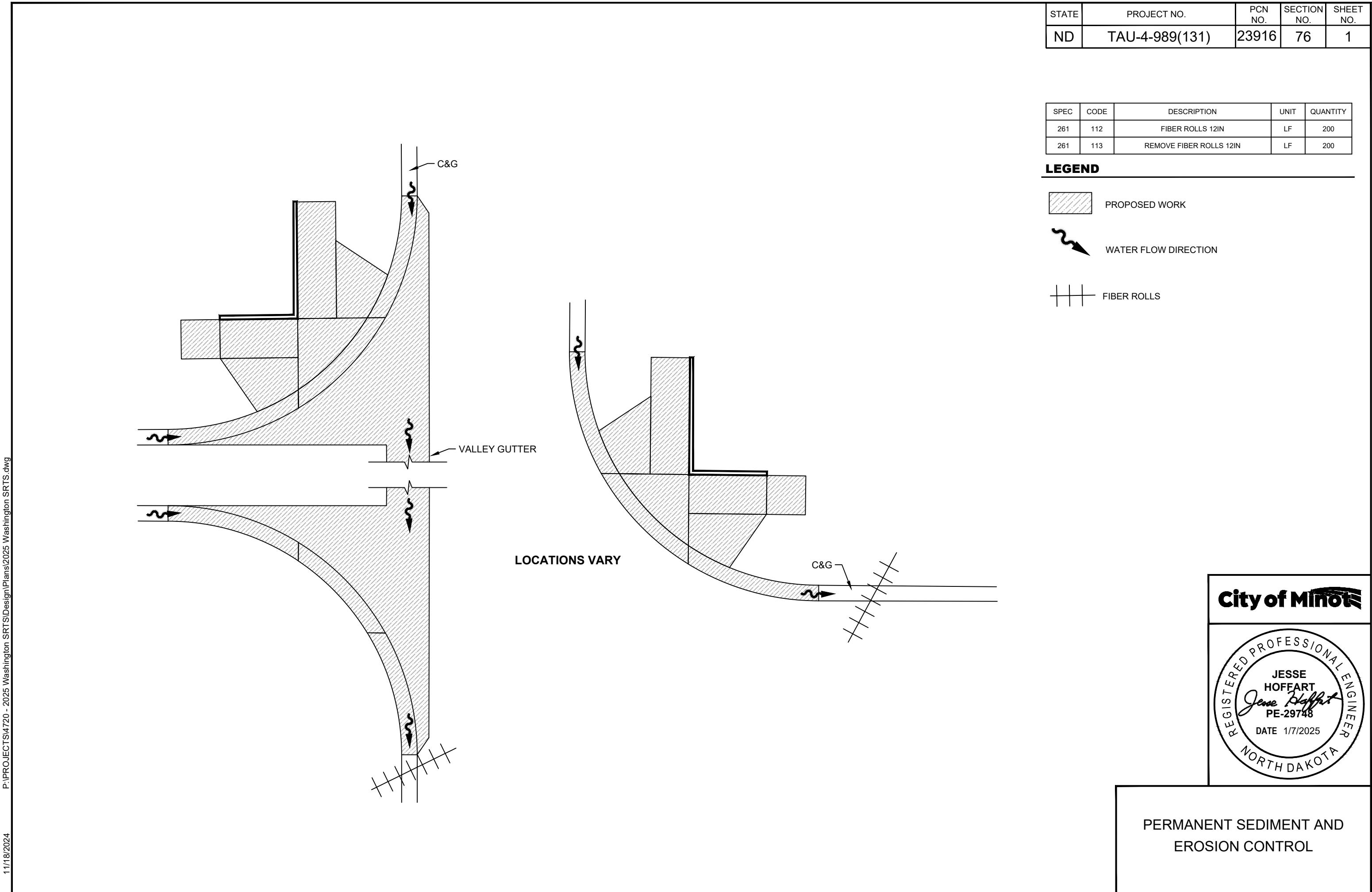
REGISTERED PROFESSIONAL ENGINEER
JESSE HOFFART
Jesse Hoffart
PE-29748
DATE 1/7/2025
NORTH DAKOTA

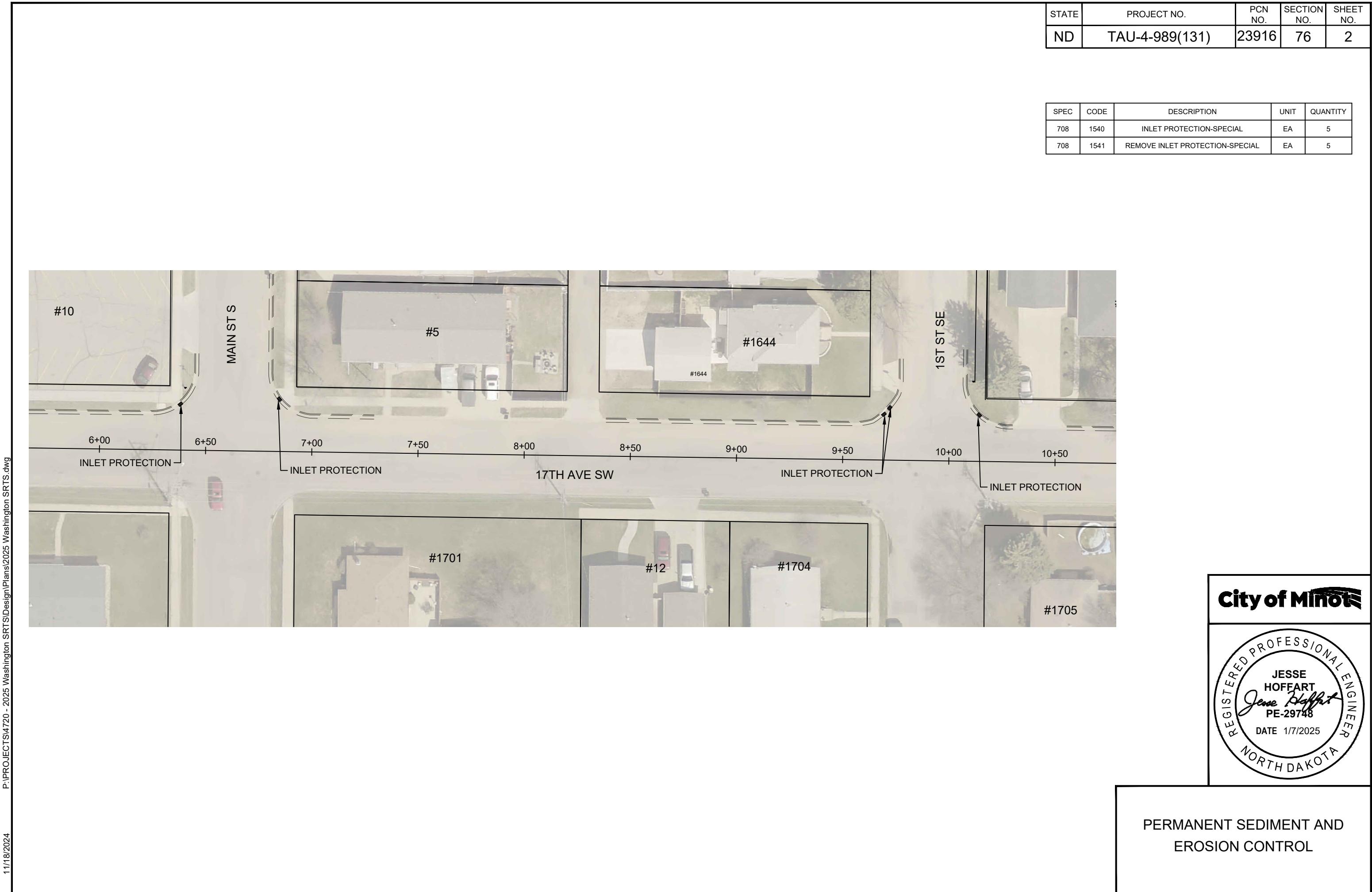
PLAN & PROFILE
18TH AVE SE NORTH SIDE
STA. 23+50 TO STA. 27+10

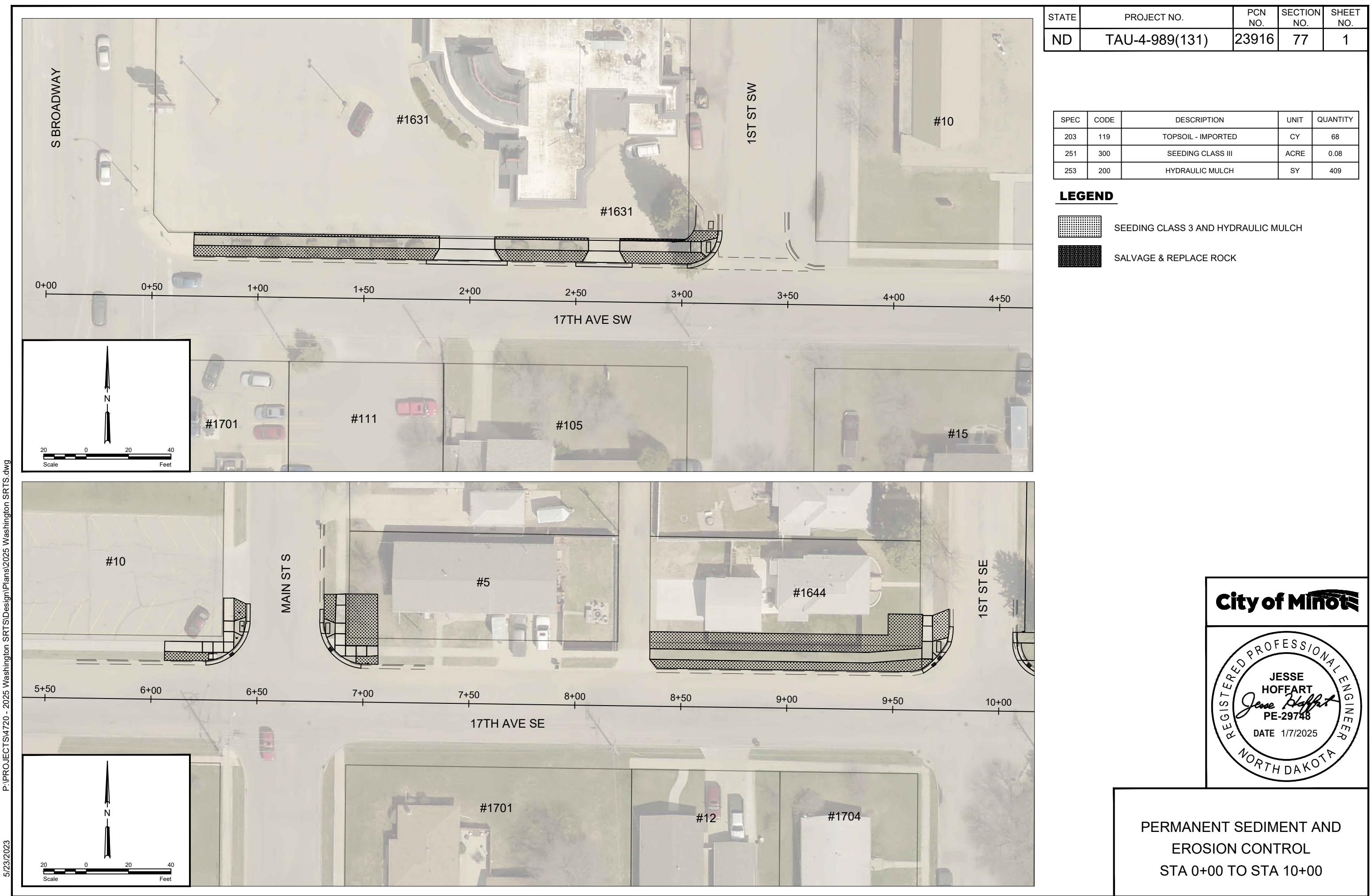


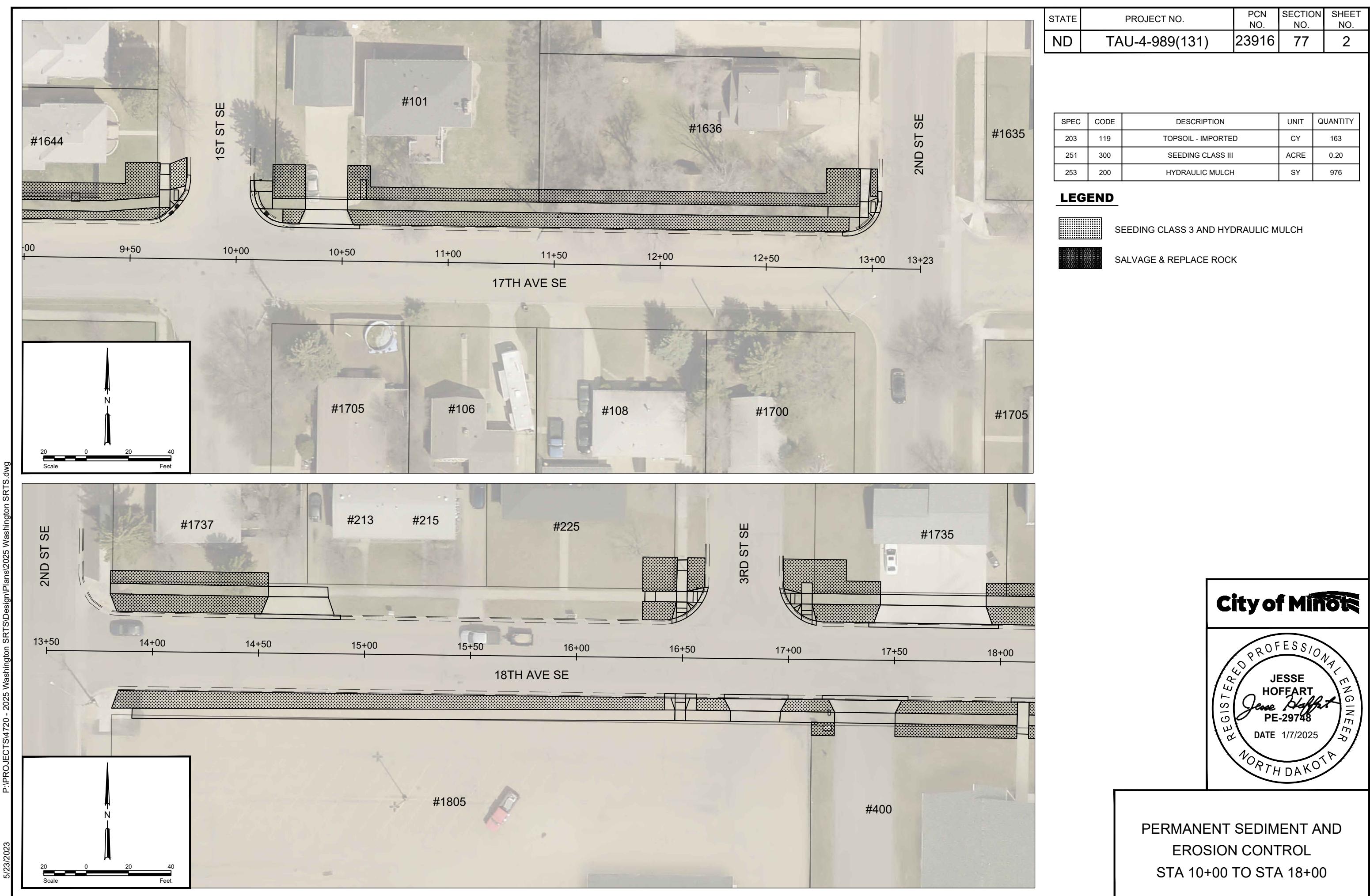


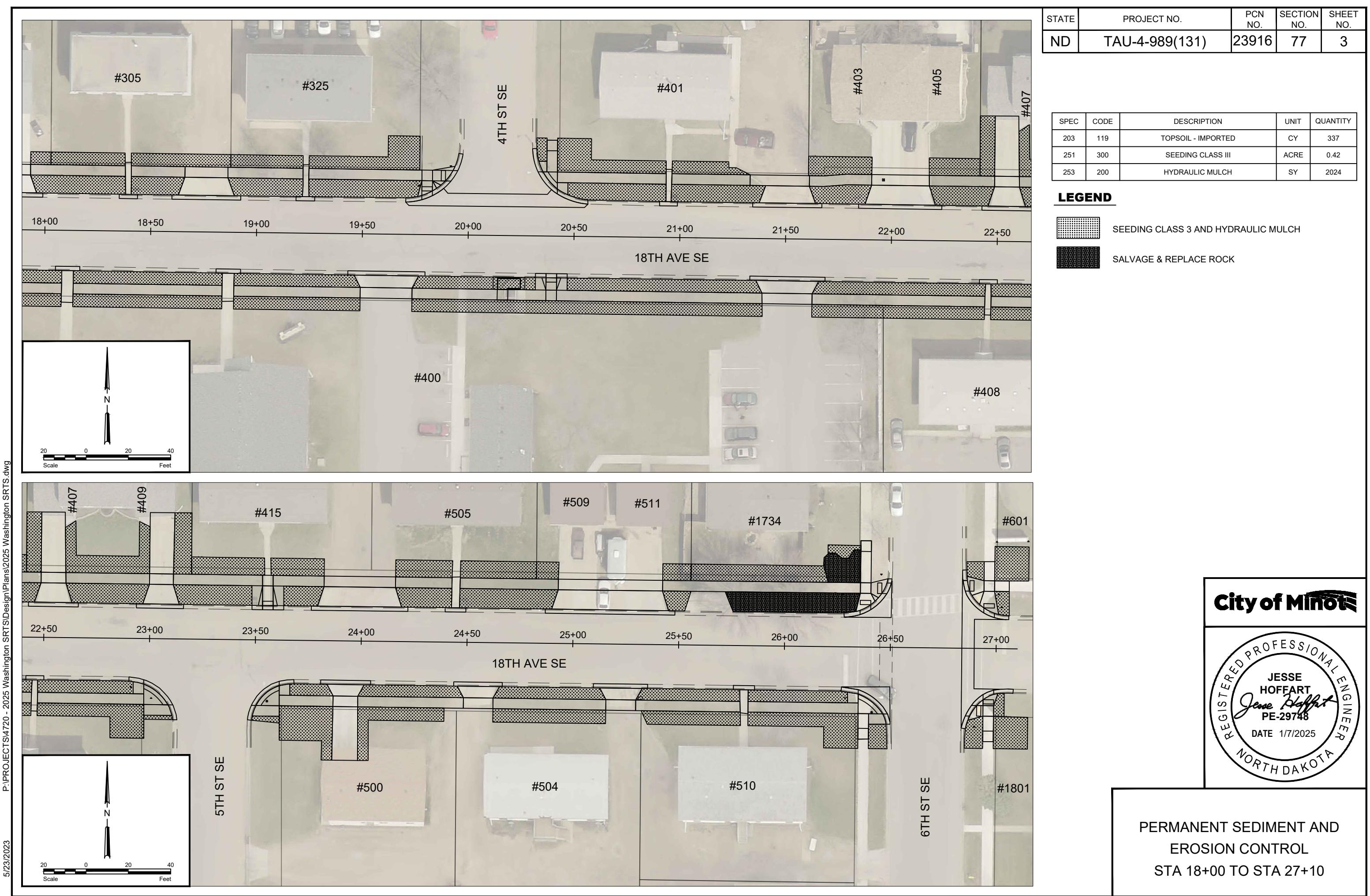












STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(131)	23916	80	1

#1631

17TH AVE SW

1ST ST SW

PROTECT EX. STOP SIGN

TYPE 1A
INFLOW C&GADA KNOCKDOWN
INFLOW C>YPE 1B
OUTFLOW C&G**LEGEND**

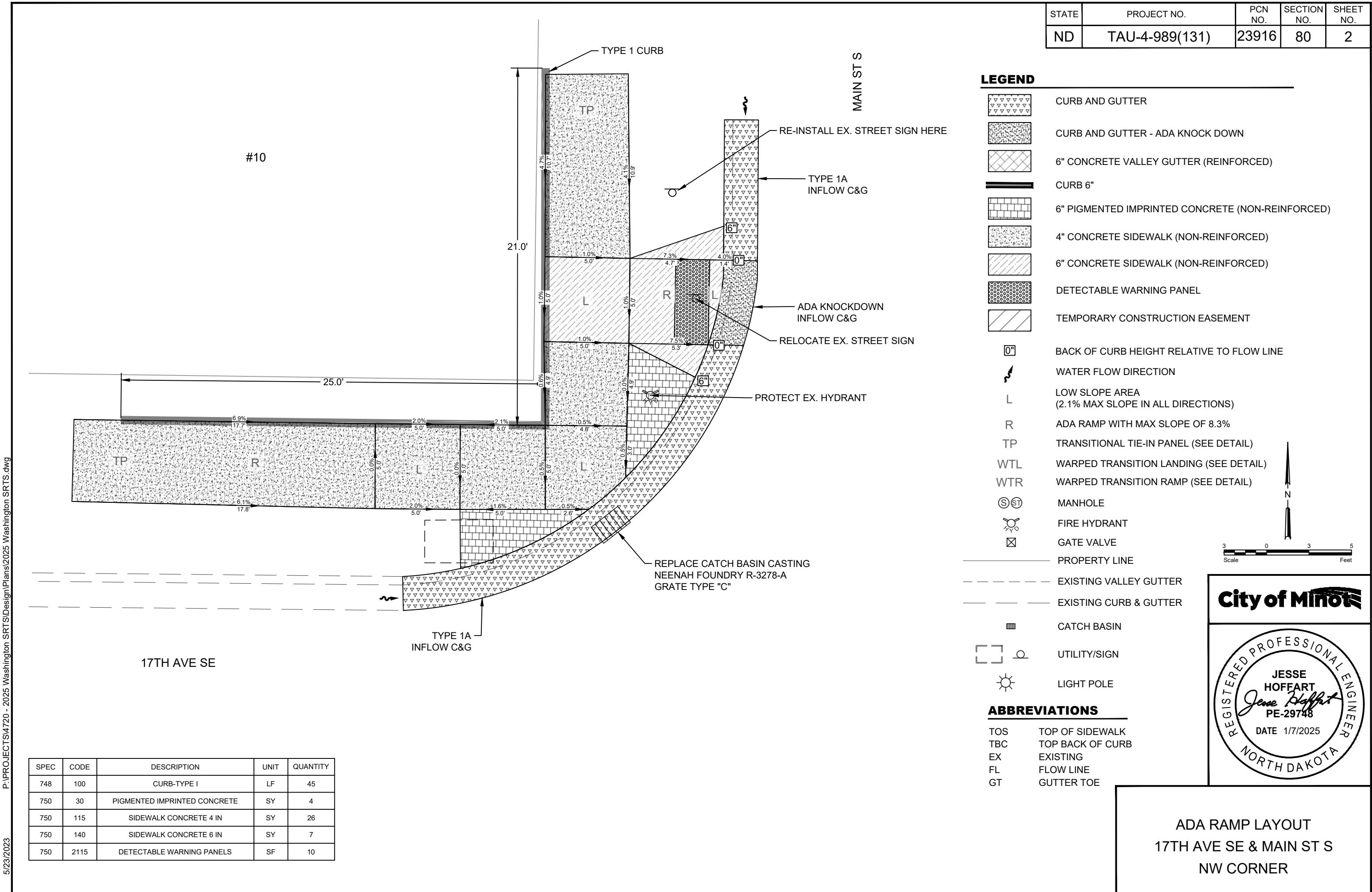
	CURB AND GUTTER
	CURB AND GUTTER - ADA KNOCK DOWN
	6" CONCRETE VALLEY GUTTER (REINFORCED)
	CURB 6"
	6" PIGMENTED IMPRINTED CONCRETE (NON-REINFORCED)
	4" CONCRETE SIDEWALK (NON-REINFORCED)
	6" CONCRETE SIDEWALK (NON-REINFORCED)
	DETECTABLE WARNING PANEL
	TEMPORARY CONSTRUCTION EASEMENT
	0" BACK OF CURB HEIGHT RELATIVE TO FLOW LINE
	WATER FLOW DIRECTION
	LOW SLOPE AREA (2.1% MAX SLOPE IN ALL DIRECTIONS)
	ADA RAMP WITH MAX SLOPE OF 8.3%
	TRANSITIONAL TIE-IN PANEL (SEE DETAIL)
	WARPED TRANSITION LANDING (SEE DETAIL)
	WARPED TRANSITION RAMP (SEE DETAIL)
	MANHOLE
	FIRE HYDRANT
	GATE VALVE
	PROPERTY LINE
	EXISTING VALLEY GUTTER
	EXISTING CURB & GUTTER
	CATCH BASIN
	UTILITY/SIGN
	LIGHT POLE

City of Minot**ABBREVIATIONS**

TOS	TOP OF SIDEWALK
TBC	TOP BACK OF CURB
EX	EXISTING
FL	FLOW LINE
GT	GUTTER TOE

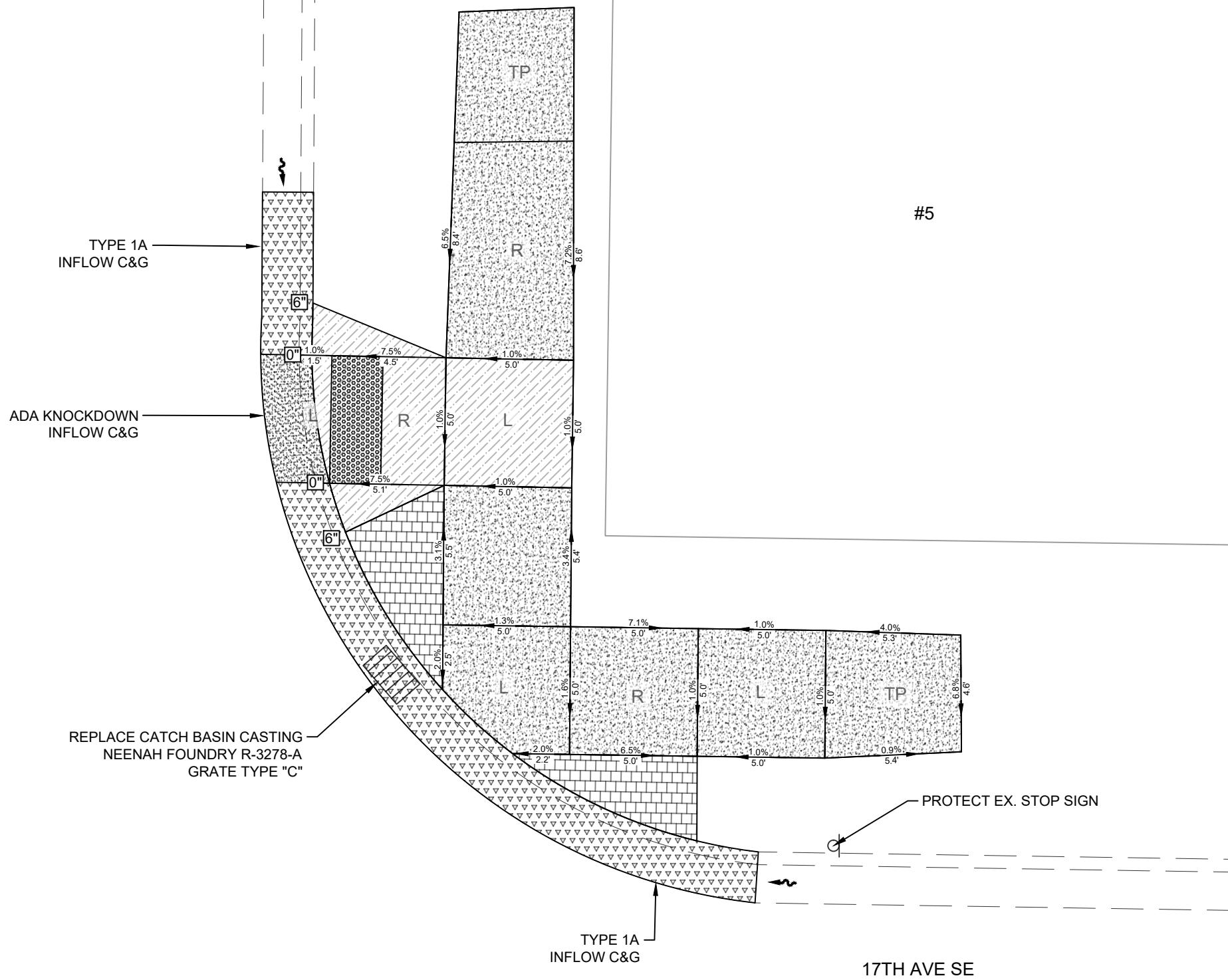
ADA RAMP LAYOUT
17TH AVE SW & 1ST ST SW
NW CORNER

SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
750	140	SIDEWALK CONCRETE 6 IN	SY	7
750	2115	DETECTABLE WARNING PANELS	SF	10



STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(131)	23916	80	3

MAIN ST S



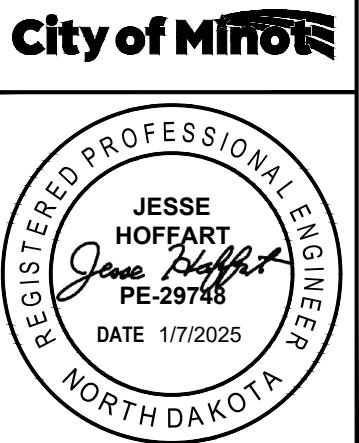
SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
750	30	PIGMENTED IMPRINTED CONCRETE	SY	3
750	115	SIDEWALK CONCRETE 4 IN	SY	21
750	140	SIDEWALK CONCRETE 6 IN	SY	7
750	2115	DETECTABLE WARNING PANELS	SF	10

LEGEND

	CURB AND GUTTER
	CURB AND GUTTER - ADA KNOCK DOWN
	6" CONCRETE VALLEY GUTTER (REINFORCED)
	CURB 6"
	6" PIGMENTED IMPRINTED CONCRETE (NON-REINFORCED)
	4" CONCRETE SIDEWALK (NON-REINFORCED)
	6" CONCRETE SIDEWALK (NON-REINFORCED)
	DETECTABLE WARNING PANEL
	TEMPORARY CONSTRUCTION EASEMENT
	0" BACK OF CURB HEIGHT RELATIVE TO FLOW LINE
	WATER FLOW DIRECTION
	L LOW SLOPE AREA (2.1% MAX SLOPE IN ALL DIRECTIONS)
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	WTR WARPED TRANSITION RAMP (SEE DETAIL)
	MANHOLE
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	GATE VALVE
	PROPERTY LINE
	EXISTING VALLEY GUTTER
	EXISTING CURB & GUTTER
	CATCH BASIN
	UTILITY/SIGN
	LIGHT POLE

ABBREVIATIONS

TOS	TOP OF SIDEWALK
TBC	TOP BACK OF CURB
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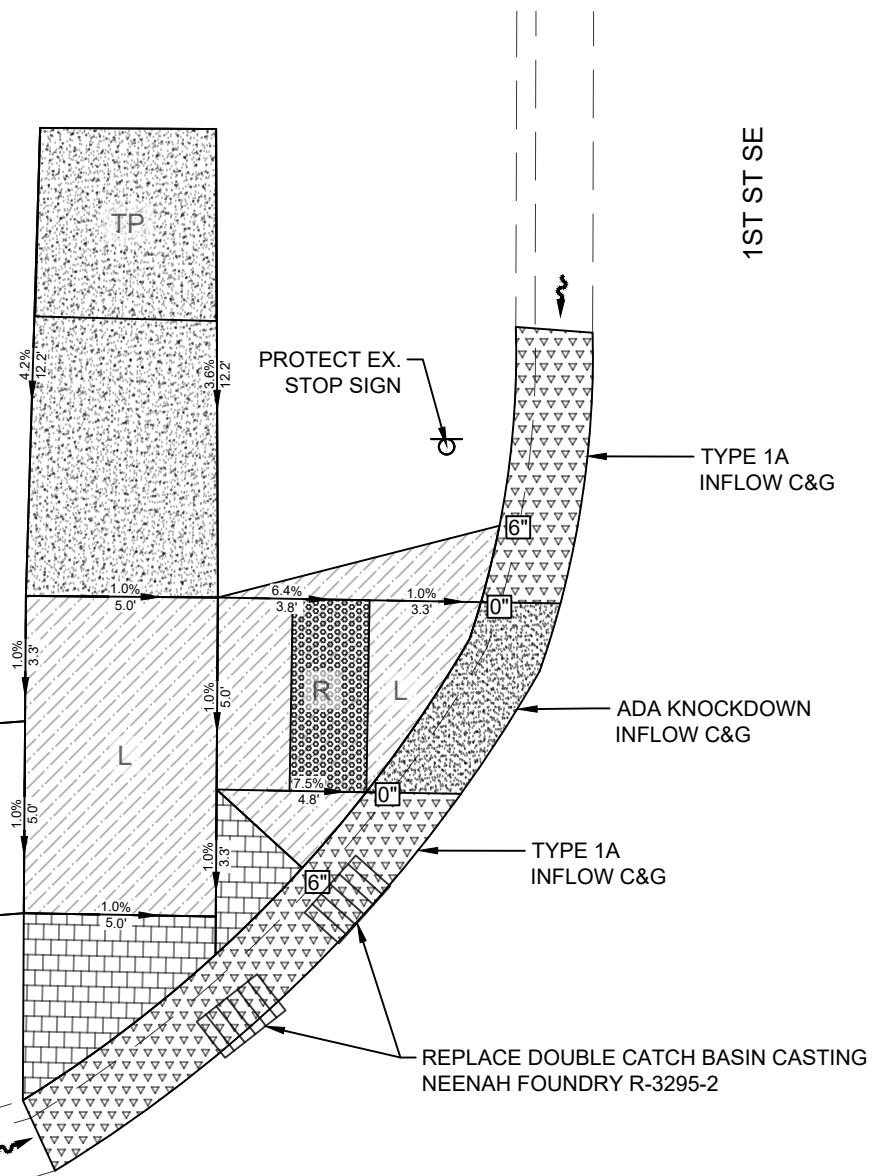
ADA RAMP LAYOUT
17TH AVE SE & MAIN ST S
NE CORNER

#1644

1ST ST SE

17TH AVE SE

SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
750	30	PIGMENTED IMPRINTED CONCRETE	SY	2
750	115	SIDEWALK CONCRETE 4 IN	SY	21
750	140	SIDEWALK CONCRETE 6 IN	SY	9
750	2115	DETECTABLE WARNING PANELS	SF	10



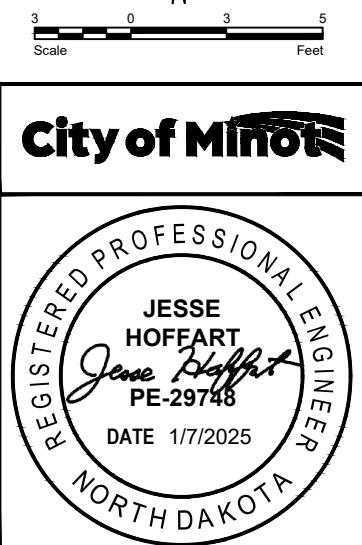
LEGEND

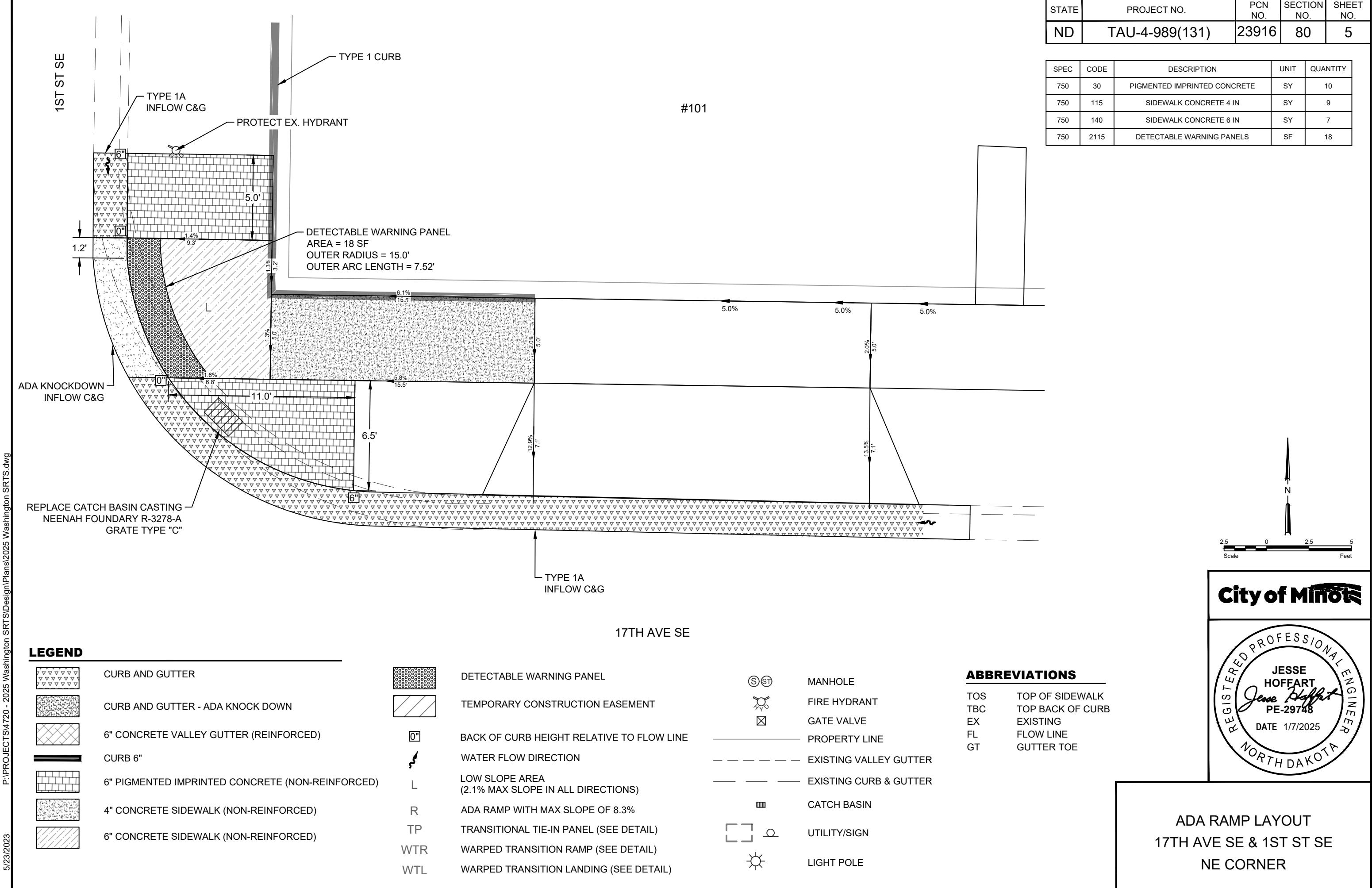
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	CURB AND GUTTER - ADA KNOCK DOWN
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	CURB 6"
	6" PIGMENTED IMPRINTED CONCRETE (NON-REINFORCED)
	4" CONCRETE SIDEWALK (NON-REINFORCED)
	6" CONCRETE SIDEWALK (NON-REINFORCED)
	DETECTABLE WARNING PANEL
	TEMPORARY CONSTRUCTION EASEMENT
	0" BACK OF CURB HEIGHT RELATIVE TO FLOW LINE
	WATER FLOW DIRECTION
	LOW SLOPE AREA (2.1% MAX SLOPE IN ALL DIRECTIONS)
	ADA RAMP WITH MAX SLOPE OF 8.3%
	TRANSITIONAL TIE-IN PANEL (SEE DETAIL)
	WARPED TRANSITION LANDING (SEE DETAIL)
	WARPED TRANSITION RAMP (SEE DETAIL)
	MANHOLE
	FIRE HYDRANT
	GATE VALVE
	PROPERTY LINE
	EXISTING VALLEY GUTTER
	EXISTING CURB & GUTTER
	CATCH BASIN
	UTILITY/SIGN
	LIGHT POLE
	Scale
	N
	City of Minot
	PROFESSIONAL ENGINEERING JESSE HOFFART

ABBREVIATIONS

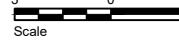
TOS TOP OF SIDEWALK
TBC TOP BACK OF CURB
EX EXISTING
FL FLOW LINE
GT GUTTER TOE

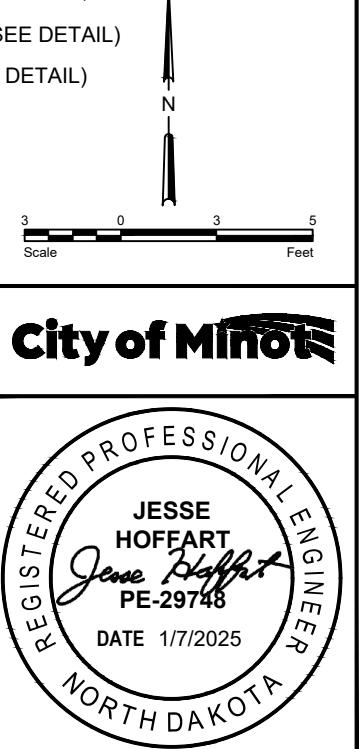
ADA RAMP LAYOUT
7TH AVE SE & 1ST ST SE
NW CORNER





LEGEND

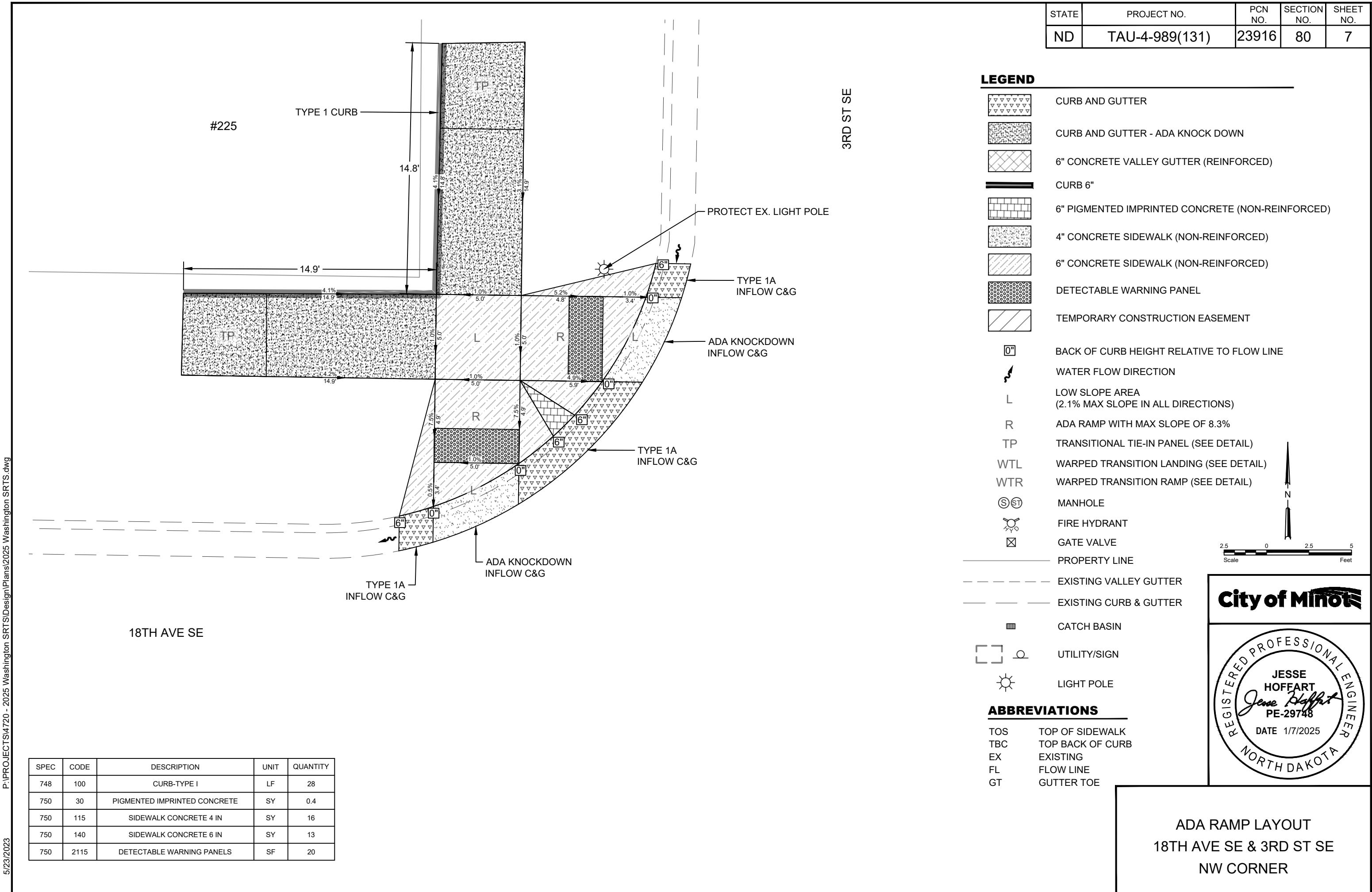
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	CURB AND GUTTER - ADA KNOCK DOWN
	6" CONCRETE VALLEY GUTTER (REINFORCED)
	CURB 6"
	6" PIGMENTED IMPRINTED CONCRETE (NON-REINFORCED)
	4" CONCRETE SIDEWALK (NON-REINFORCED)
	6" CONCRETE SIDEWALK (NON-REINFORCED)
	DETECTABLE WARNING PANEL
	TEMPORARY CONSTRUCTION EASEMENT
	0" BACK OF CURB HEIGHT RELATIVE TO FLOW LINE
	WATER FLOW DIRECTION
	L LOW SLOPE AREA (2.1% MAX SLOPE IN ALL DIRECTIONS)
	R ADA RAMP WITH MAX SLOPE OF 8.3%
	TP TRANSITIONAL TIE-IN PANEL (SEE DETAIL)
	WTL WARPED TRANSITION LANDING (SEE DETAIL)
	WTR WARPED TRANSITION RAMP (SEE DETAIL)
	MANHOLE
	FIRE HYDRANT
	GATE VALVE
	PROPERTY LINE
	EXISTING VALLEY GUTTER
	EXISTING CURB & GUTTER
	CATCH BASIN
	UTILITY/SIGN
	
	

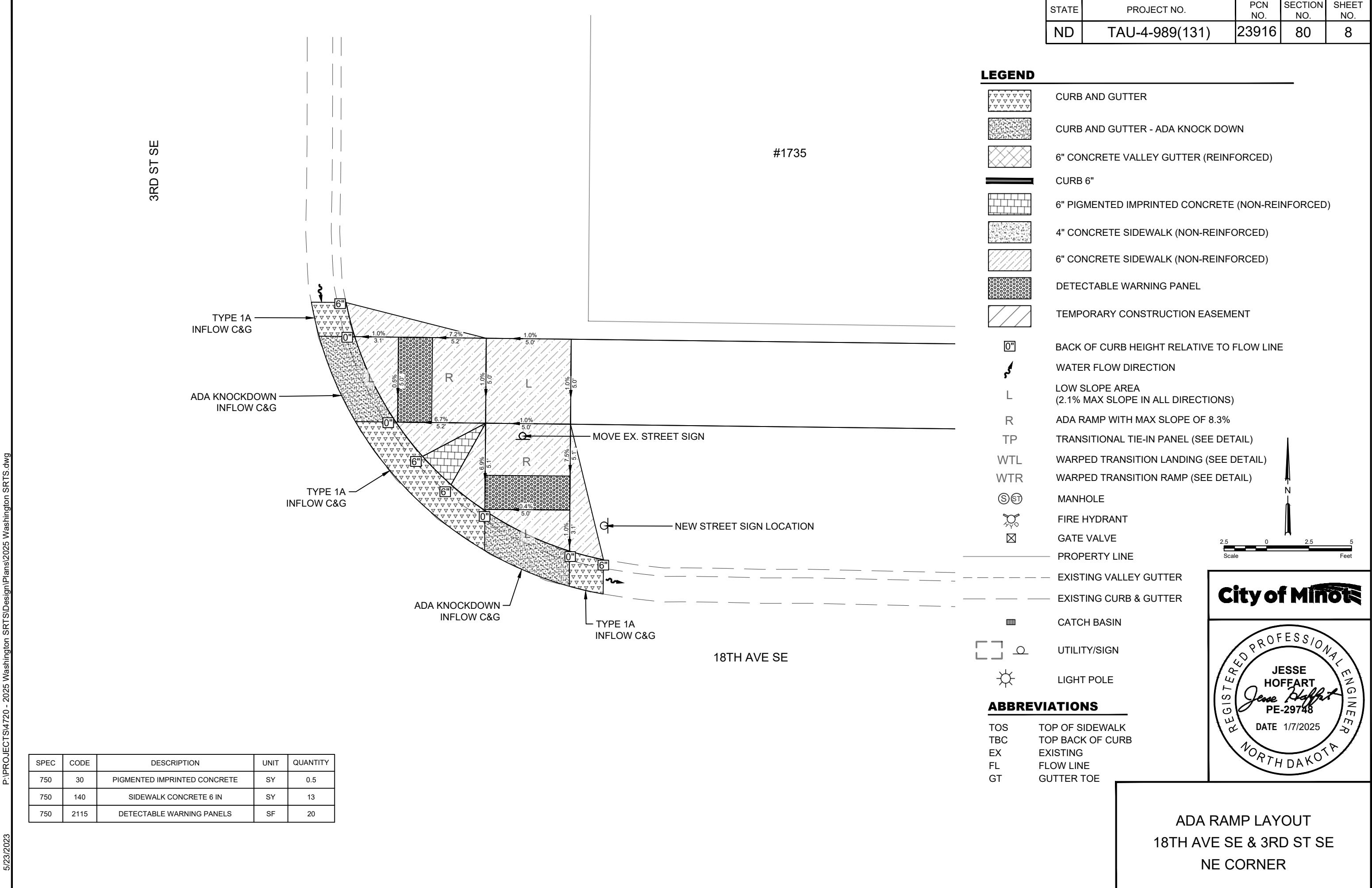


ABBREVIATIONS

TOS TOP OF SIDEWALK
TBC TOP BACK OF CURB
EX EXISTING
FL FLOW LINE
GT GUTTER TOE

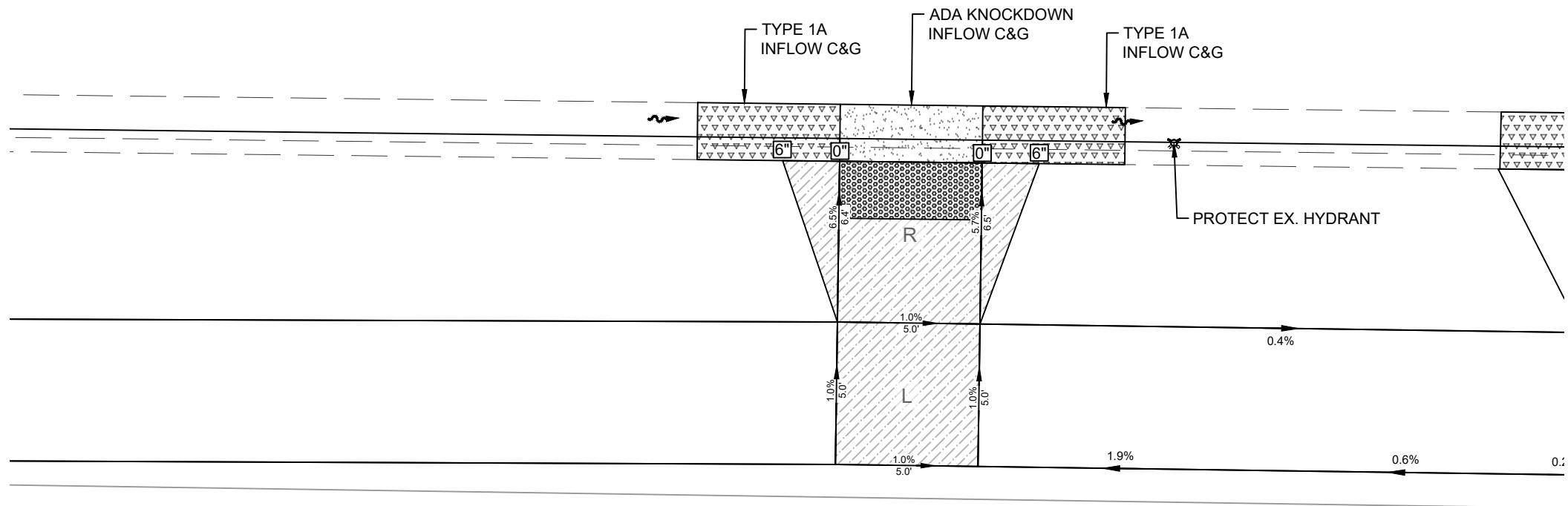
ADA RAMP LAYOUT
TH AVE SE & 2ND ST SE
NW CORNER





STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(131)	23916	80	9

18TH AVE SE



#1805

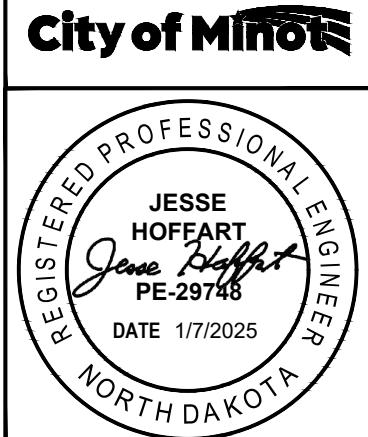
SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
750	140	SIDEWALK CONCRETE 6 IN	SY	7
750	2115	DETECTABLE WARNING PANELS	SF	10

LEGEND

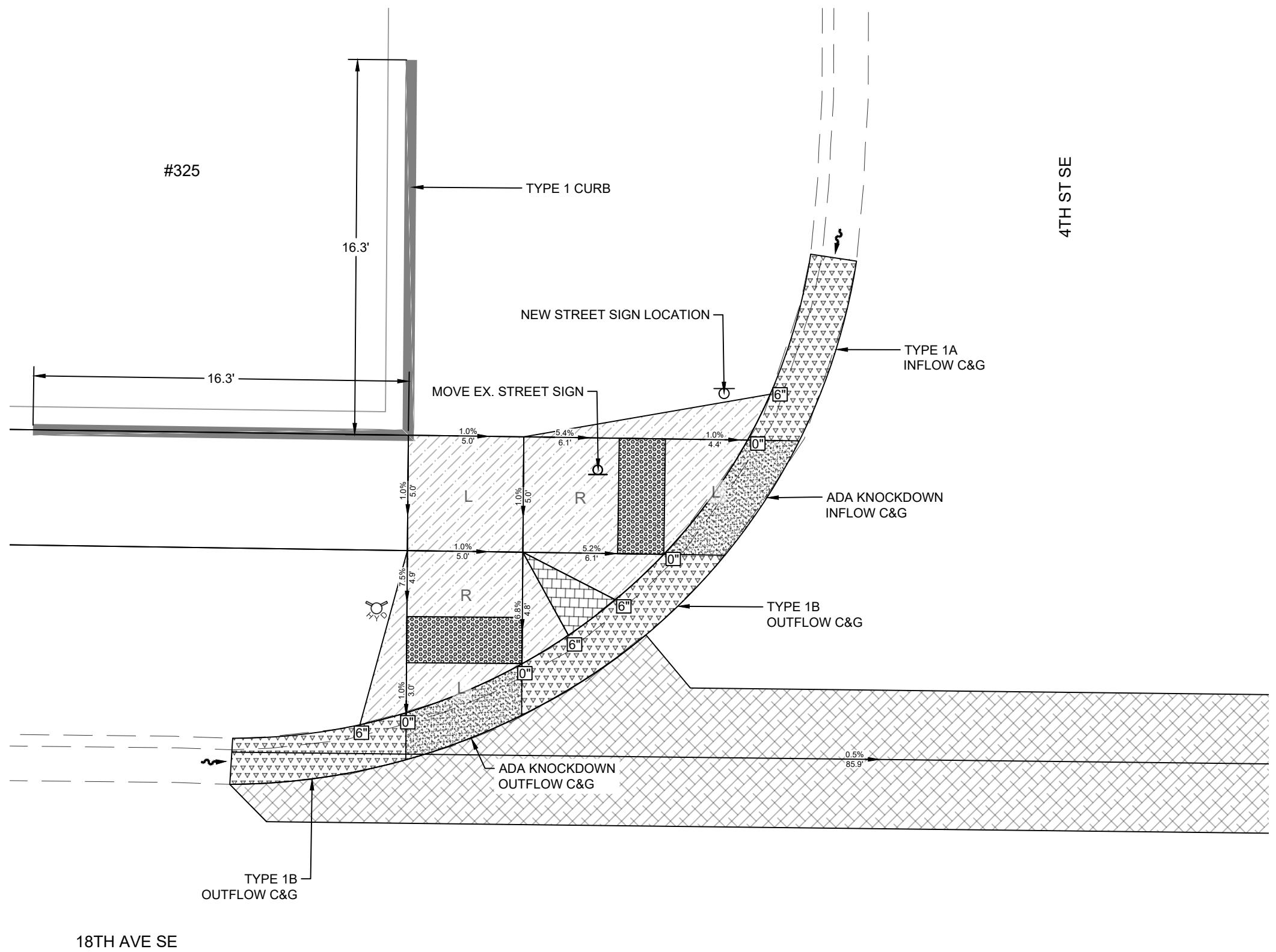
	CURB AND GUTTER
	CURB AND GUTTER - ADA KNOCK DOWN
	6" CONCRETE VALLEY GUTTER (REINFORCED)
	CURB 6"
	6" PIGMENTED IMPRINTED CONCRETE (NON-REINFORCED)
	4" CONCRETE SIDEWALK (NON-REINFORCED)
	6" CONCRETE SIDEWALK (NON-REINFORCED)
	DETECTABLE WARNING PANEL
	TEMPORARY CONSTRUCTION EASEMENT
	BACK OF CURB HEIGHT RELATIVE TO FLOW LINE
	WATER FLOW DIRECTION
	LOW SLOPE AREA (2.1% MAX SLOPE IN ALL DIRECTIONS)
	ADA RAMP WITH MAX SLOPE OF 8.3%
	TRANSITIONAL TIE-IN PANEL (SEE DETAIL)
	WARPED TRANSITION LANDING (SEE DETAIL)
	WARPED TRANSITION RAMP (SEE DETAIL)
	MANHOLE
	FIRE HYDRANT
	GATE VALVE
	PROPERTY LINE
	EXISTING VALLEY GUTTER
	EXISTING CURB & GUTTER
	CATCH BASIN
	UTILITY/SIGN
	LIGHT POLE

ABBREVIATIONS

TOS	TOP OF SIDEWALK
TBC	TOP BACK OF CURB
EX	EXISTING
FL	FLOW LINE
GT	GUTTER TOE



ADA RAMP LAYOUT
18TH AVE SE



LEGEND

CURB AND GUTTER

CURB AND GUTTER - ADA KNOCK DOWN

6" CONCRETE VALLEY GUTTER (REINFORCED)

CURB 6"

6" PIGMENTED IMPRINTED CONCRETE (NON-REINFORCED)

4" CONCRETE SIDEWALK (NON-REINFORCED)

6" CONCRETE SIDEWALK (NON-REINFORCED)

DETECTABLE WARNING PANEL

TEMPORARY CONSTRUCTION EASEMENT

0" BACK OF CURB HEIGHT RELATIVE TO FLOW LINE

WATER FLOW DIRECTION

L LOW SLOPE AREA
(2.1% MAX SLOPE IN ALL DIRECTIONS)

R ADA RAMP WITH MAX SLOPE OF 8.3%

TP TRANSITIONAL TIE-IN PANEL (SEE DETAIL)

WTL WARPED TRANSITION LANDING (SEE DETAIL)

WTR WARPED TRANSITION RAMP (SEE DETAIL)

(S) ST MANHOLE

FIRE HYDRANT

GATE VALVE

PROPERTY LINE

EXISTING VALLEY GUTTER

EXISTING CURB & GUTTER

CATCH BASIN

UTILITY/SIGN

LIGHT POLE

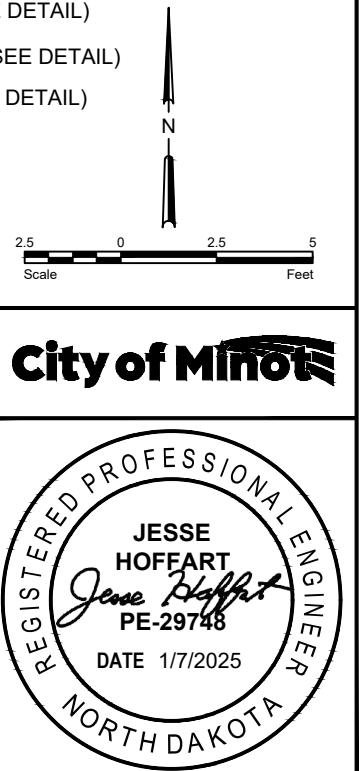
Scale

City of Minot

ERED PROFESSIONAL
JESSE
HOFFART

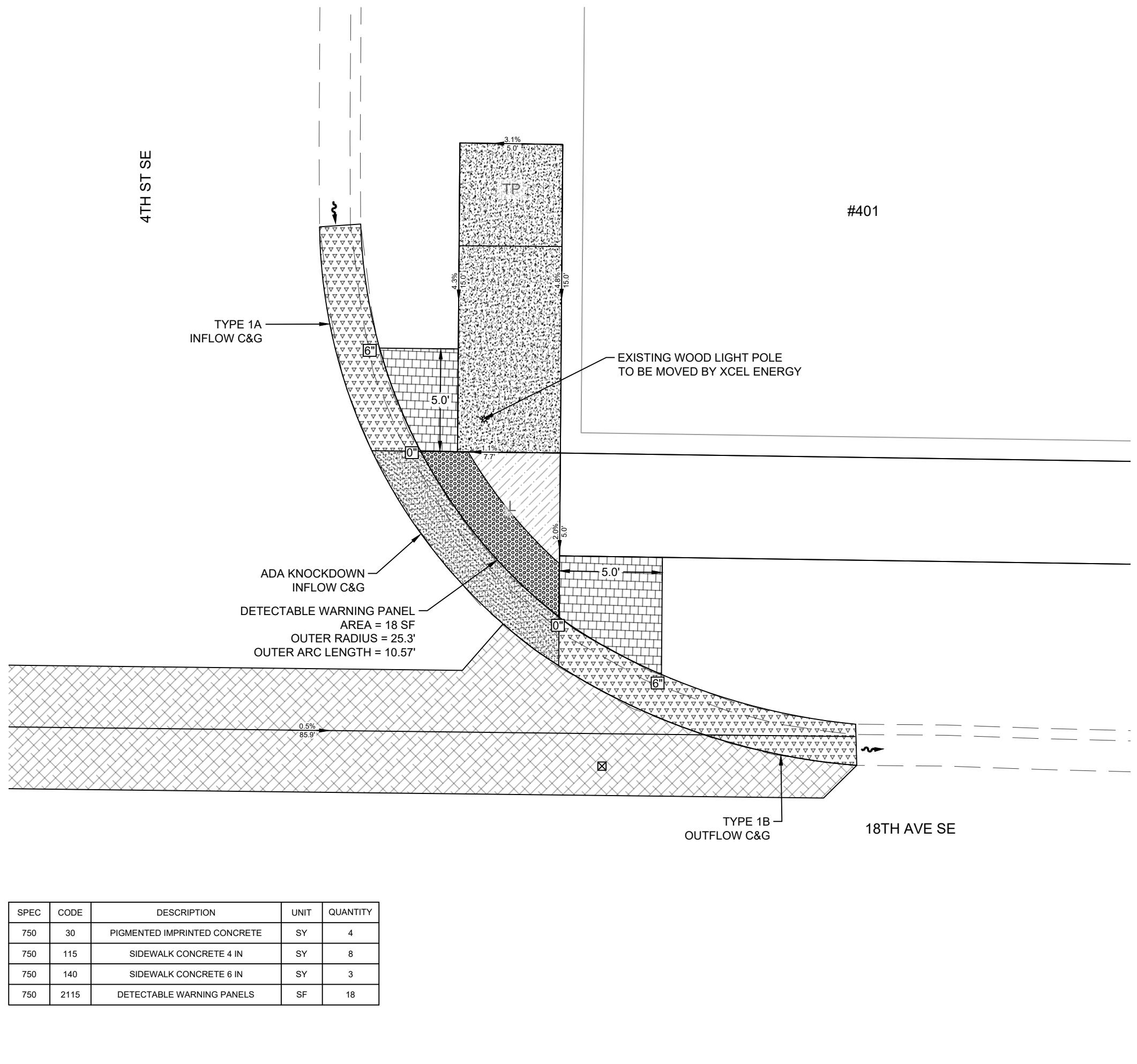
ABBREVIATIONS

TOS	TOP OF SIDEWALK
TBC	TOP BACK OF CURB
EX	EXISTING
FL	FLOW LINE
GT	GUTTER TOE



ADA RAMP LAYOUT
TH AVE SE & 4TH ST SE
NW CORNER

STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(131)	23916	80	11

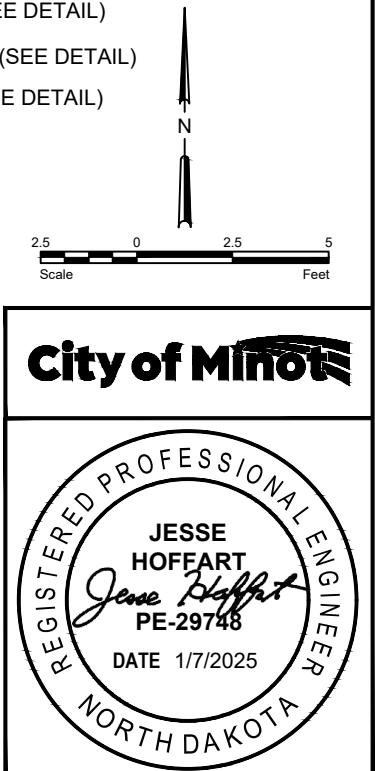


LEGEND

	CURB AND GUTTER
	CURB AND GUTTER - ADA KNOCK DOWN
	6" CONCRETE VALLEY GUTTER (REINFORCED)
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	6" PIGMENTED IMPRINTED CONCRETE (NON-REINFORCED)
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	MANHOLE
	FIRE HYDRANT
	GATE VALVE
	PROPERTY LINE
	EXISTING VALLEY GUTTER
	EXISTING CURB & GUTTER
	CATCH BASIN
	UTILITY/SIGN
	LIGHT POLE

ABBREVIATIONS

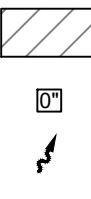
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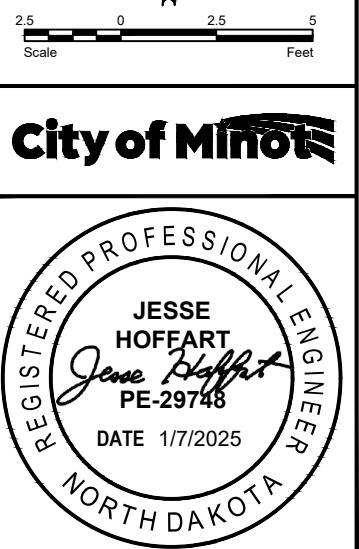


ADA RAMP LAYOUT
18TH AVE SE & 4TH ST SE
NE CORNER

20+50

LEGEND

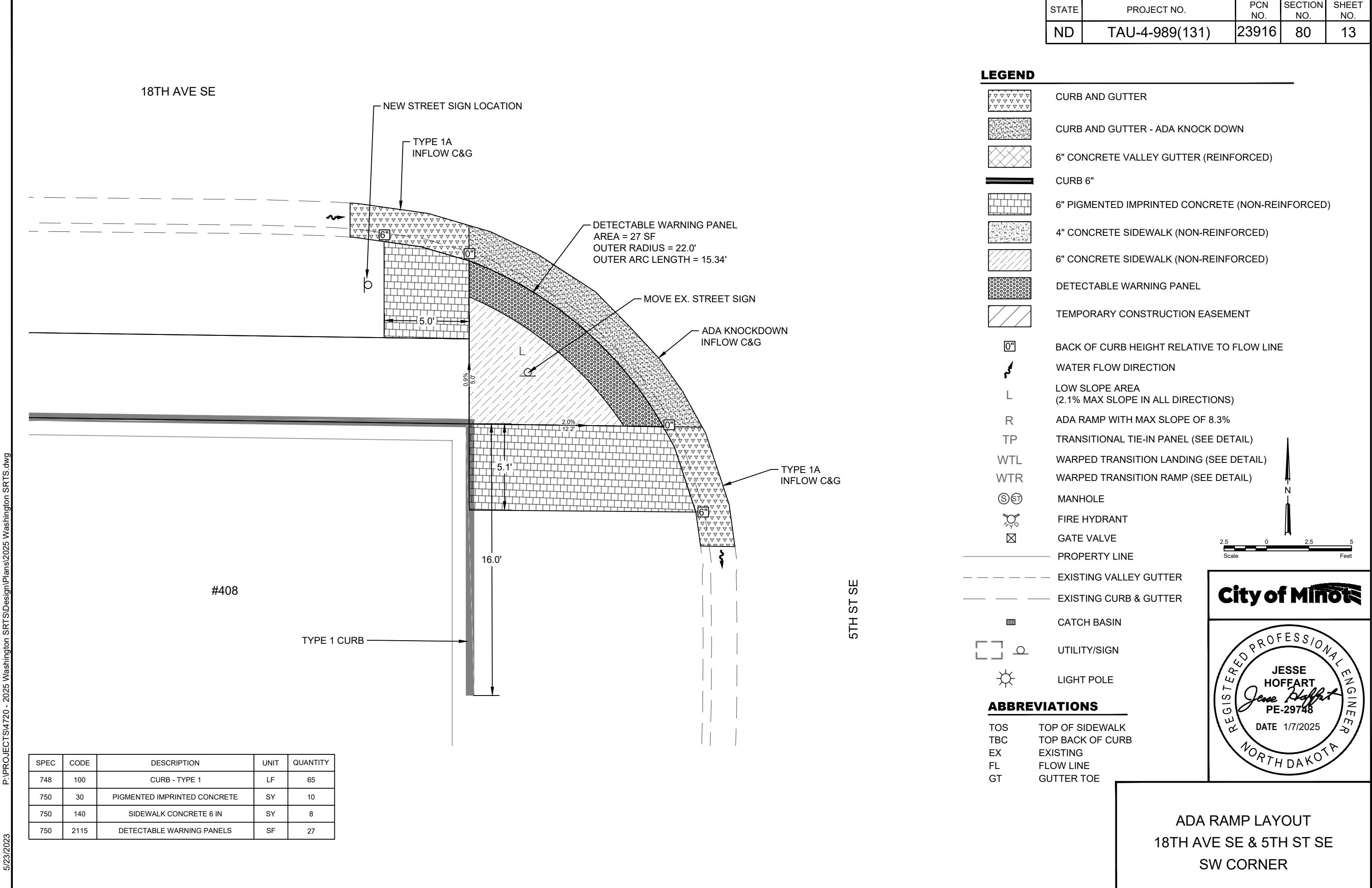
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	FIRE HYDRANT
	GATE VALVE
	PROPERTY LINE
	EXISTING VALLEY GUTTER
	EXISTING CURB & GUTTER
	CATCH BASIN
	UTILITY/SIGN
	LIGHT POLE
	Scale
	N
	City of Minot
	PROFESSIONAL SERVICES JESSE HOFFART

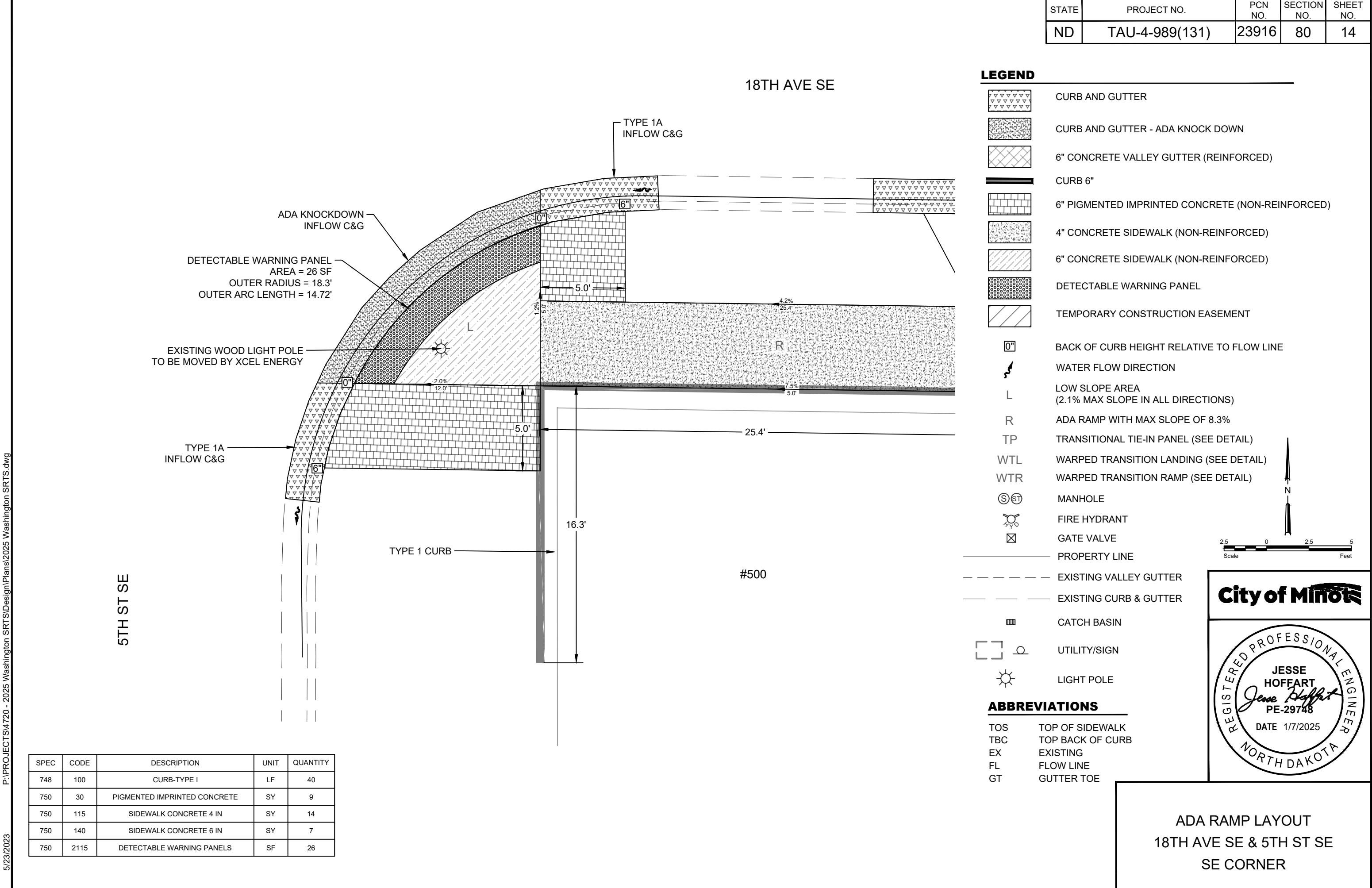


ADA RAMP LAYOUT 18TH AVE SE

SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
750	140	SIDEWALK CONCRETE 6 IN	SY	17
750	2115	DETECTABLE WARNING PANELS	SF	10
970	365	SHELTER	EA	1

#400





#415

LEGEND

	CURB AND GUTTER
	CURB AND GUTTER - ADA KNOCK DOWN
	6" CONCRETE VALLEY GUTTER (REINFORCED)
	CURB 6"
	6" PIGMENTED IMPRINTED CONCRETE (NON-REINFORCED)
	4" CONCRETE SIDEWALK (NON-REINFORCED)
	6" CONCRETE SIDEWALK (NON-REINFORCED)
	DETECTABLE WARNING PANEL
	TEMPORARY CONSTRUCTION EASEMENT
	0" BACK OF CURB HEIGHT RELATIVE TO FLOW LINE
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	L LOW SLOPE AREA (2.1% MAX SLOPE IN ALL DIRECTIONS)
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	FIRE HYDRANT
	GATE VALVE
	PROPERTY LINE
	EXISTING VALLEY GUTTER
	EXISTING CURB & GUTTER
	CATCH BASIN
	UTILITY/SIGN

ABBREVIATIONS

TOS	TOP OF SIDEWALK
TBC	TOP BACK OF CURB
EX	EXISTING
FL	FLOW LINE
GT	GUTTER TOE

ADA RAMP LAYOUT 18TH AVE SE

5/23/2023

SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
750	140	SIDEWALK CONCRETE 6 IN	SY	10
750	2115	DETECTABLE WARNING PANELS	SF	10

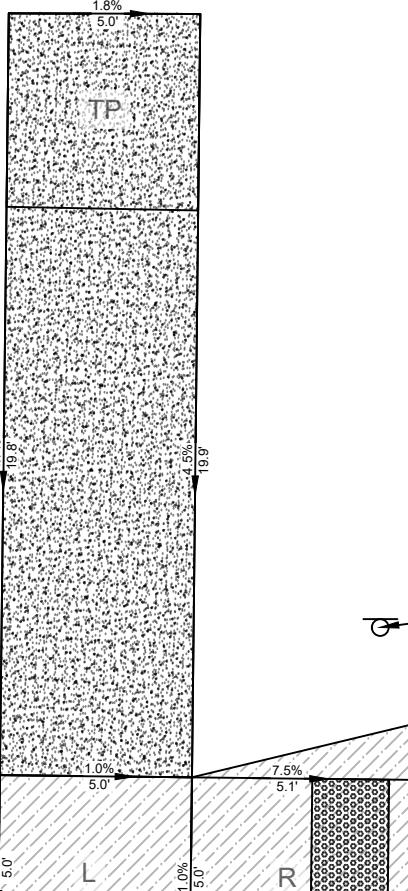
#1734

6TH ST SE

PROTECT EX. HYDRAN

18TH AVE SE

SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
748	1030	VALLEY GUTTER 72IN	SY	11
750	30	PIGMENTED IMPRINTED CONCRETE	SY	0.5
750	115	SIDEWALK CONCRETE 4 IN	SY	11
750	140	SIDEWALK CONCRETE 6 IN	SY	13
750	2115	DETECTABLE WARNING PANELS	SF	20



KNOCKDOWN – UTFLOW C&G

TYPE 1B
OUTFLOW C&G

NEW SIGN

— ADA KNOCKDOWN
OUTFLOW C&G

~ TYPE 1B
OUTFLOW C&G



CURB AND GUTTER

CURB AND GUTTER - ADA KNOCK DOWN

6" CONCRETE VALLEY GUTTER (REINFORCED)

CURB 6"

6" PIGMENTED IMPRINTED CONCRETE (NON-REINFORCED)

4" CONCRETE SIDEWALK (NON-REINFORCED)

6" CONCRETE SIDEWALK (NON-REINFORCED)

DETECTABLE WARNING PANEL

TEMPORARY CONSTRUCTION EASEMENT

0" BACK OF CURB HEIGHT RELATIVE TO FLOW LINE

WATER FLOW DIRECTION

L LOW SLOPE AREA
(2.1% MAX SLOPE IN ALL DIRECTIONS)

R ADA RAMP WITH MAX SLOPE OF 8.3%

TP TRANSITIONAL TIE-IN PANEL (SEE DETAIL)

WTL WARPED TRANSITION LANDING (SEE DETAIL)

WTR WARPED TRANSITION RAMP (SEE DETAIL)

MANHOLE

FIRE HYDRANT

GATE VALVE

PROPERTY LINE

EXISTING VALLEY GUTTER

EXISTING CURB & GUTTER

CATCH BASIN

UTILITY/SIGN

LIGHT POLE

N

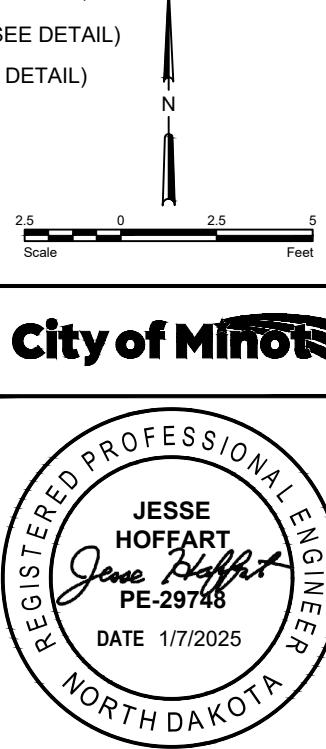
2.5 0 2.5

Scale

City of Minn

ERED PROFESSIONAL

**JESSE
HOFFART**



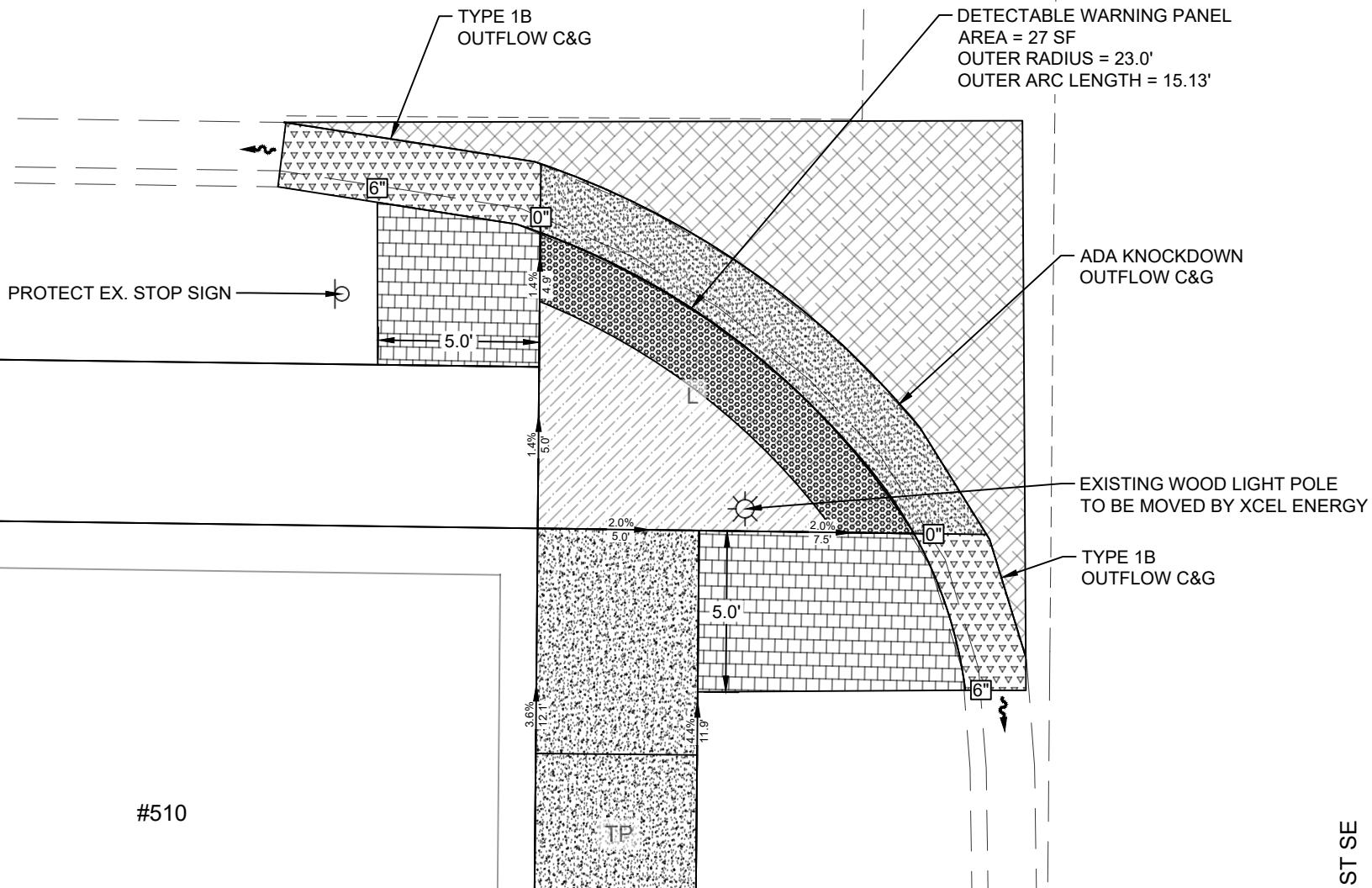
ABBREVIATIONS

TOS TOP OF SIDEWALK
TBC TOP BACK OF CURB
EX EXISTING
FL FLOW LINE
GT GUTTER TOE

ADA RAMP LAYOUT
TH AVE SE & 6TH ST SE
NW CORNER

STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(131)	23916	80	17

18TH AVE SE



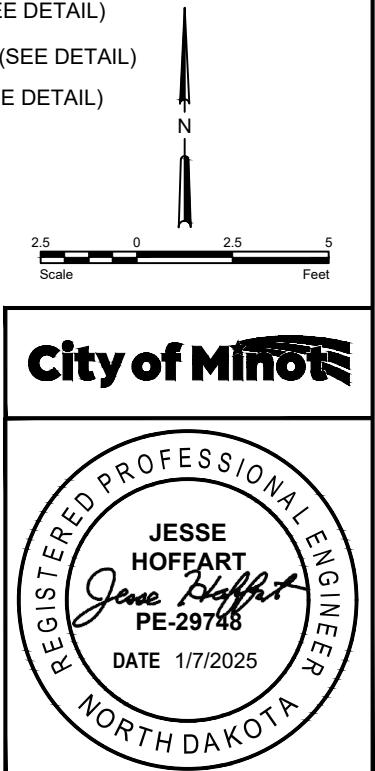
SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
748	1030	VALLEY GUTTER 72IN	SY	11
750	30	PIGMENTED IMPRINTED CONCRETE	SY	7
750	115	SIDEWALK CONCRETE 4 IN	SY	7
750	140	SIDEWALK CONCRETE 6 IN	SY	7
750	2115	DETECTABLE WARNING PANELS	SF	27

LEGEND

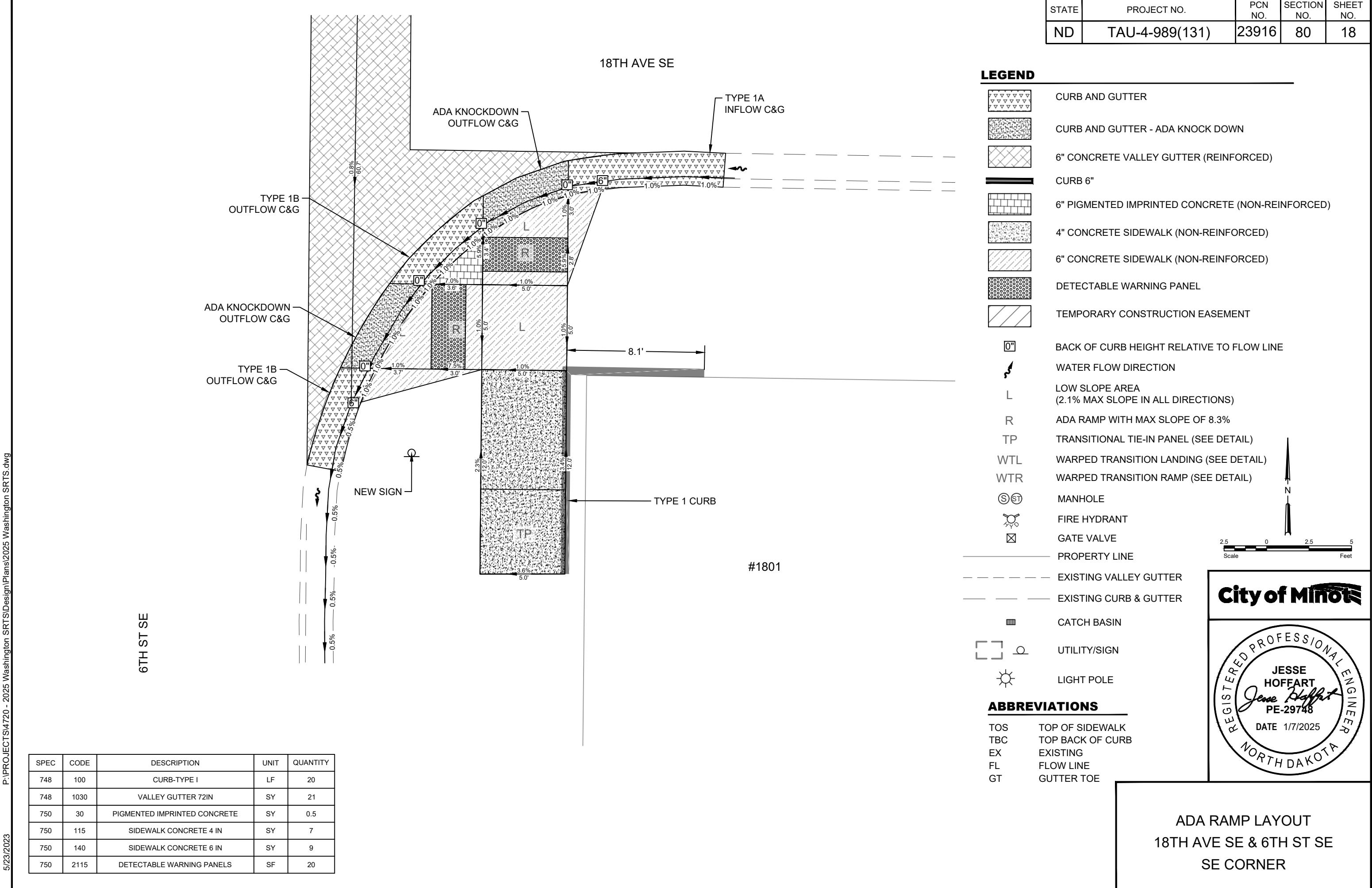
	CURB AND GUTTER
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	TEMPORARY CONSTRUCTION EASEMENT
	0" BACK OF CURB HEIGHT RELATIVE TO FLOW LINE
	WATER FLOW DIRECTION
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	MANHOLE
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	EXISTING VALLEY GUTTER
	EXISTING CURB & GUTTER
	CATCH BASIN
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	LIGHT POLE

ABBREVIATIONS

TOS	TOP OF SIDEWALK
TBC	TOP BACK OF CURB
EX	EXISTING
FL	FLOW LINE
GT	GUTTER TOE



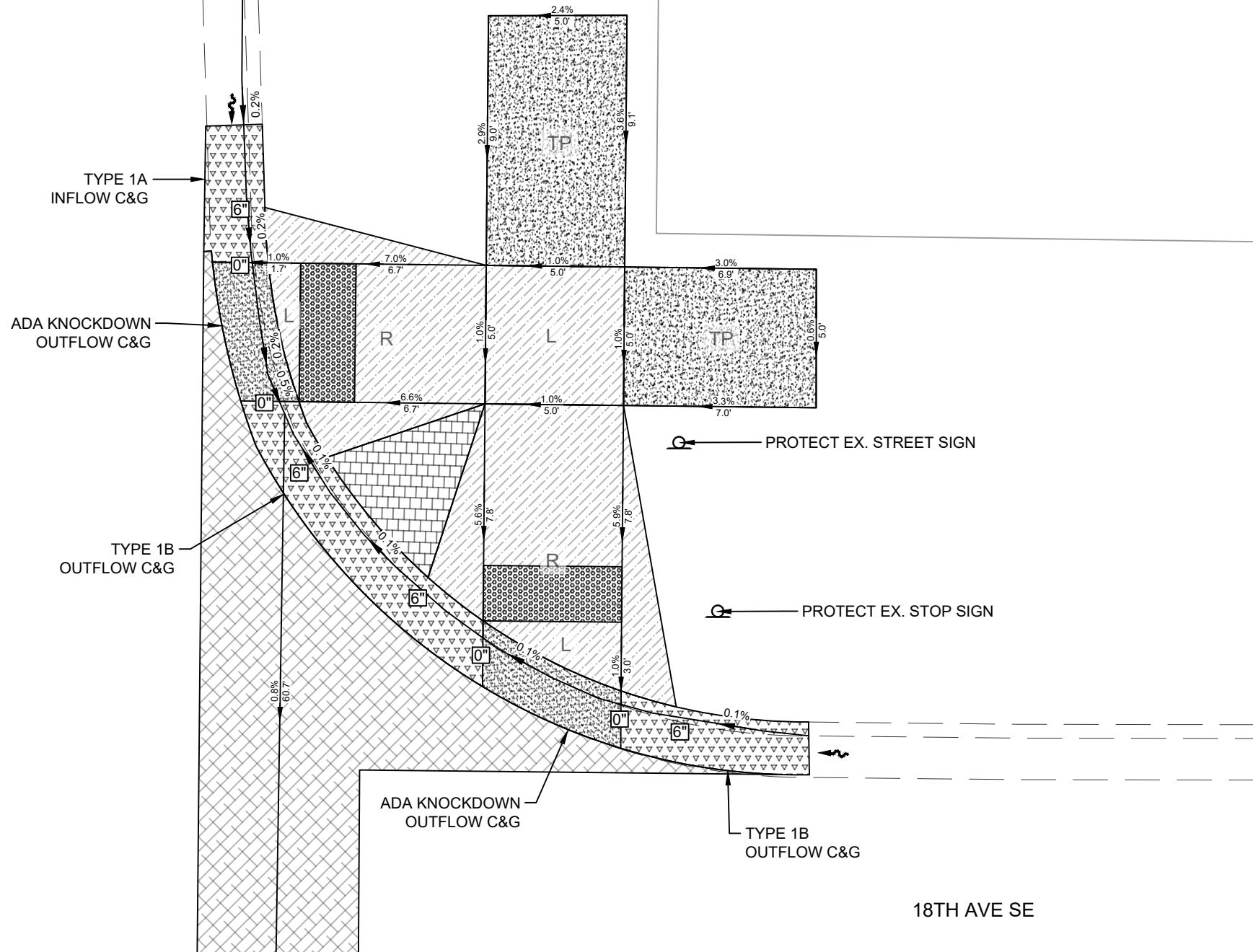
ADA RAMP LAYOUT
18TH AVE SE & 6TH ST SE
SW CORNER



STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(131)	23916	80	19

6TH ST SE

#601



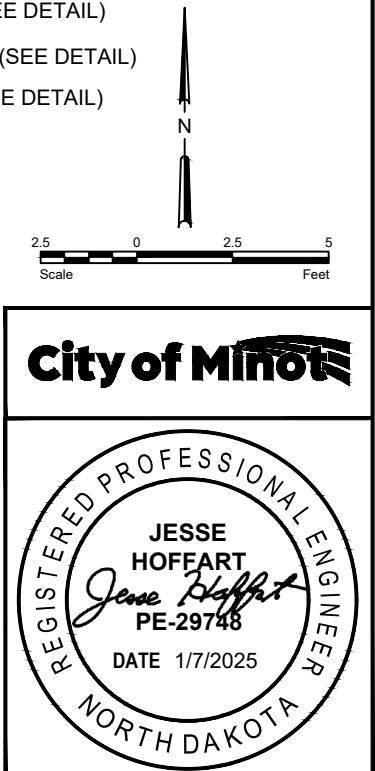
SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
748	1030	VALLEY GUTTER 72 IN	SY	21
750	30	PIGMENTED IMPRINTED CONCRETE	SY	2
750	115	SIDEWALK CONCRETE 4 IN	SY	9
750	140	SIDEWALK CONCRETE 6 IN	SY	16
750	2115	DETECTABLE WARNING PANELS	SF	20

LEGEND

	CURB AND GUTTER
	CURB AND GUTTER - ADA KNOCK DOWN
	6" CONCRETE VALLEY GUTTER (REINFORCED)
	CURB 6"
	6" PIGMENTED IMPRINTED CONCRETE (NON-REINFORCED)
	4" CONCRETE SIDEWALK (NON-REINFORCED)
	6" CONCRETE SIDEWALK (NON-REINFORCED)
	DETECTABLE WARNING PANEL
	TEMPORARY CONSTRUCTION EASEMENT
	0" BACK OF CURB HEIGHT RELATIVE TO FLOW LINE
	WATER FLOW DIRECTION
	LOW SLOPE AREA (2.1% MAX SLOPE IN ALL DIRECTIONS)
	ADA RAMP WITH MAX SLOPE OF 8.3%
	TRANSITIONAL TIE-IN PANEL (SEE DETAIL)
	WARPED TRANSITION LANDING (SEE DETAIL)
	WARPED TRANSITION RAMP (SEE DETAIL)
	MANHOLE
	FIRE HYDRANT
	GATE VALVE
	PROPERTY LINE
	EXISTING VALLEY GUTTER
	EXISTING CURB & GUTTER
	CATCH BASIN
	UTILITY/SIGN
	LIGHT POLE

ABBREVIATIONS

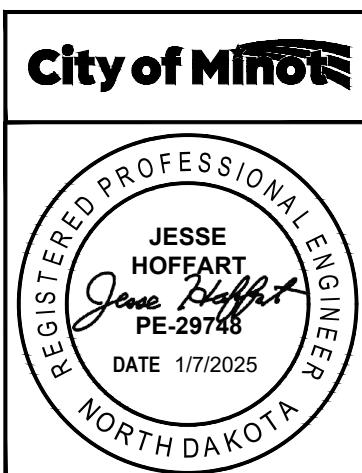
TOS	TOP OF SIDEWALK
TBC	TOP BACK OF CURB
EX	EXISTING
FL	FLOW LINE
GT	GUTTER TOE



ADA RAMP LAYOUT
18TH AVE SE & 6TH ST SE
NE CORNER

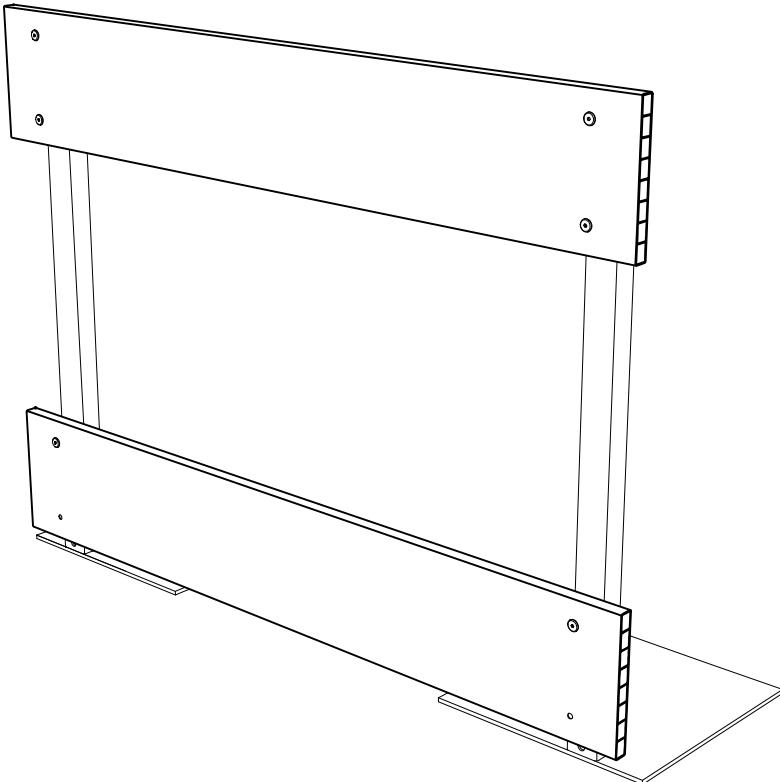
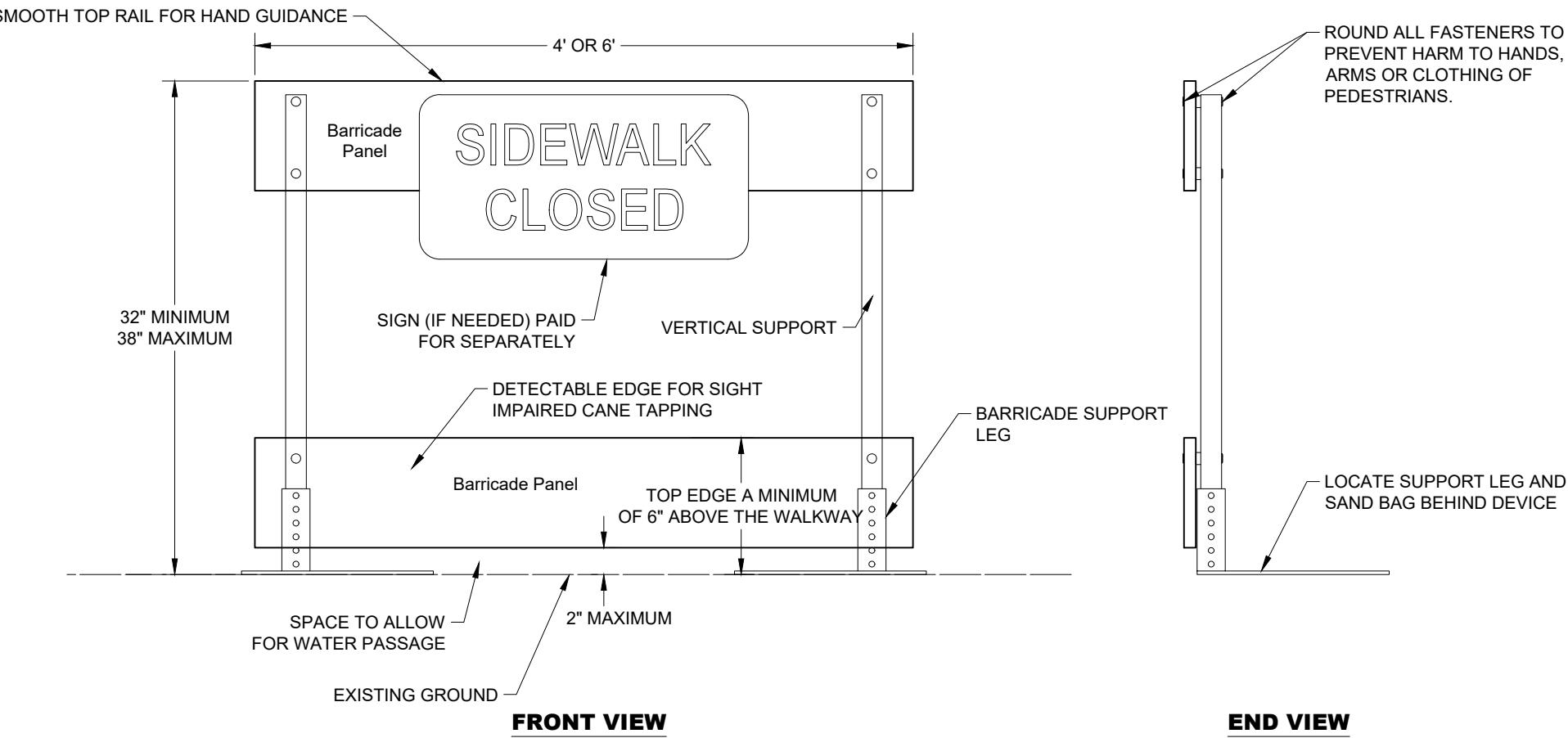
SIGN NUMBER	SIGN SIZE	DESCRIPTION	AMOUNT REQUIRED		TOTAL AMOUNT REQUIRED	UNITS PER AMOUNT	UNITS SUB TOTAL
			BY PHASE NO.	1 2			
5-1-48	48"x48"	EXIT GORE					35
20-1-60	60"x24"	ROAD WORK NEXT MILES					28
20-1b-60	60"x24"	NO WORK IN PROGRESS (Sign and installation only)					18
20-2-48	48"x24"	END ROAD WORK					26
20-4-36	36"x18"	PILOT CAR FOLLOW ME (Mounted to back of pilot car)					18
20-10-108	108"x48"	CONTRACTOR SIGN					70
20-50a-72	72"x36"	ROAD WORK NEXT MILES RT & LT ARROWS					43
20-52a-72	72"x24"	ROAD WORK NEXT MILES RT or LT ARROW					36
20-55-96	96"x48"	SPEED LIMIT ENFORCED - MINIMUM FEE \$80 WHEN WORKERS PRESENT					59
1-1-36	36"x36"	INTERSTATE ROUTE MARKER (Post and installation only)					10
1-4-24	24"x24"	U.S. ROUTE MARKER (Post and installation only)					10
1-5-24	24"x24"	STATE ROUTE MARKER (Post and installation only)					10
3-1-24	24"x12"	NORTH (Mounted on route marker post)					7
3-2-24	24"x12"	EAST (Mounted on route marker post)					7
3-3-24	24"x12"	SOUTH (Mounted on route marker post)					7
3-4-24	24"x12"	WEST (Mounted on route marker post)					7
4-8-24	24"x12"	DETOUR (Mounted on route marker post)					7
4-9-30	30"x24"	DETOUR ARROW RIGHT or LEFT/AHD AND RT or LT					15
4-10-48	48"x18"	DETOUR (INSIDE ARROW) RIGHT or LEFT (Mounted on barricade)					7
5-1-21	21"x15"	ADVANCE TURN ARROW RT or LT(Mounted on route marker post)					7
5-1-30	30"x21"	ADVANCE TURN ARROW RT or LT(Mounted on route marker post)					9
6-1-21	21"x15"	DIRECTIONAL ARROW RT or LT (Mounted on route marker post)					7
6-1-30	30"x21"	DIRECTIONAL ARROW RT or LT (Mounted on route marker post)					9
6-3-21	21"x15"	DIRECTIONAL ARROW UP (Mounted on route marker post)					7
1-1-48	48"x48"	STOP					32
1-2-60	60"x60"	YIELD					29
2-1-36	36"x48"	SPEED LIMIT (Portable only)					30
2-1-48	48"x60"	SPEED LIMIT					39
2-1aP-24	24"x18"	MINIMUM FEE \$80 (Mounted on Speed Limit post)					10
3-2-48	48"x48"	NO LEFT TURN	1		1	35	35
4-1-48	48"x60"	DO NOT PASS					39
4-7-48	48"x60"	KEEP RIGHT					39
5-1-48	48"x48"	DO NOT ENTER					35
6-1-54	54"x18"	ONE WAY RIGHT or LEFT (Mounted on STOP or DO NOT ENTER post)					14
7-1-12	12"x18"	NO PARKING ANY TIME					11
8-3-a	24"x30"	NO PARKING	8 8		8	6	48
9-9-24	24"x12"	SIDEWALK CLOSED (Mounted on barricade)	11 13		13	3	39
10-6-24	24"x36"	STOP HERE ON RED					16
11-2-48	48"x30"	ROAD CLOSED (Mounted on barricade)					12
11-2a-48	48"x30"	STREET CLOSED (Mounted on barricade)					12
11-3a-60	60"x30"	ROAD CLOSED MILES AHEAD LOCAL TRAFFIC ONLY (Mtd on barricade)					15
11-3c-60	60"x30"	STREET CLOSED MILES AHEAD LOCAL TRAFFIC ONLY (Mtd on barricade)					15
11-4a-60	60"x30"	STREET CLOSED TO THRU TRAFFIC (Mounted on barricade)	1		1	15	15
11-3-48	48"x48"	REVERSE TURN RIGHT or LEFT					35
11-4-48	48"x48"	REVERSE CURVE RIGHT or LEFT	2 2		2	35	70
1-4b-48	48"x48"	TWO LANE REVERSE CURVE RIGHT or LEFT					35
1-6-48	48"x24"	ONE DIRECTION LARGE ARROW					26
3-1-48	48"x48"	STOP AHEAD					35
3-3-48	48"x48"	SIGNAL AHEAD					35
3-4-48	48"x48"	BE PREPARED TO STOP					35
3-5-48	48"x48"	SPEED REDUCTION AHEAD					35
4-2-48	48"x48"	LANE ENDS RIGHT or LEFT					35
5-1-48	48"x48"	ROAD NARROWS					35
5-8-48	48"x48"	THRU TRAFFIC RIGHT LANE					35
5-9-48	48"x48"	ROAD WORK TRAFFIC ONLY DOWN & LT or RT ARROW					35
6-3-48	48"x48"	TWO WAY TRAFFIC					35
8-1-48	48"x48"	BUMP					35
8-3-48	48"x48"	PAVEMENT ENDS					35
8-7-48	48"x48"	LOOSE GRAVEL					35
8-11-48	48"x48"	UNEVEN LANES					35
8-12-48	48"x48"	NO CENTER LINE					35
8-17-48	48"x48"	SHOULDER DROP-OFF SYMBOL					35
8-53-48	48"x48"	TRUCKS ENTERING HIGHWAY					35
8-54-48	48"x48"	TRUCKS ENTERING AHEAD or FT or MILE					35
8-55-48	48"x48"	TRUCKS CROSSING AHEAD or FT or MILE					35
8-56-48	48"x48"	TRUCKS EXITING HIGHWAY					35
9-3a-48	48"x48"	CENTER LANE CLOSED SYMBOL					35
12-2-48	48"x48"	LOW CLEARANCE					35
13-1P-30	30"x30"	MPH ADVISORY SPEED PLAQUE (Mounted on warning sign post)					14
14-3-64	64"x48"	NO PASSING ZONE					28
16-2P-30	30"x24"	FEET PLAQUE (Mounted on warning sign post)					10
16-7p-24	48"x12"	LEFT or RIGHT DIAGONAL ARROW (Mounted on pedestrian sign post)	16 18		18	7	126
20-1-48	48"x48"	ROAD WORK AHEAD or FT or MILE	20 19		20	35	700
20-2-48	48"x48"	DETOUR AHEAD or FT or MILE					35
20-3-48	48"x48"	ROAD or STREET CLOSED AHEAD or FT or MILE					35
20-4-48	48"x48"	ONE LANE ROAD AHEAD or FT or MILE					35
20-5-48	48"x48"	RIGHT or CENTER or LEFT LANE CLOSED AHEAD or FT or MILE	2 2		2	35	70
20-7-48	48"x48"	FLAGGER					35
20-8-18	18"x18"	STOP - SLOW PADDLE Back to Back					5
20-52P-54	54"x12"	NEXT MILES (Mounted on warning sign post)					12
21-1-48	48"x48"	WORKERS					35
21-2-48	48"x48"	FRESH OIL					35

NOTE:
If additional signs are required, units will be calculated using the formula from Section III-18.06 of the Design Manual.
<http://www.dot.nd.gov/>



DEVICES LIST

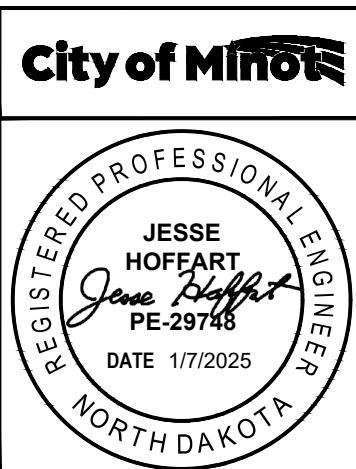
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(131)	23916	100	2



PERSPECTIVE VIEW

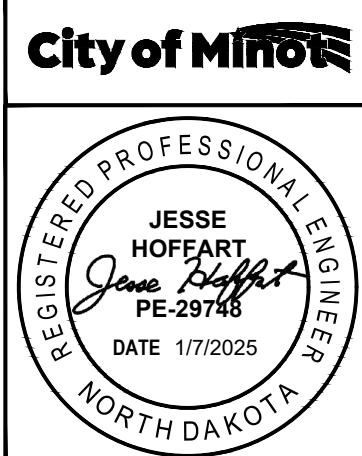
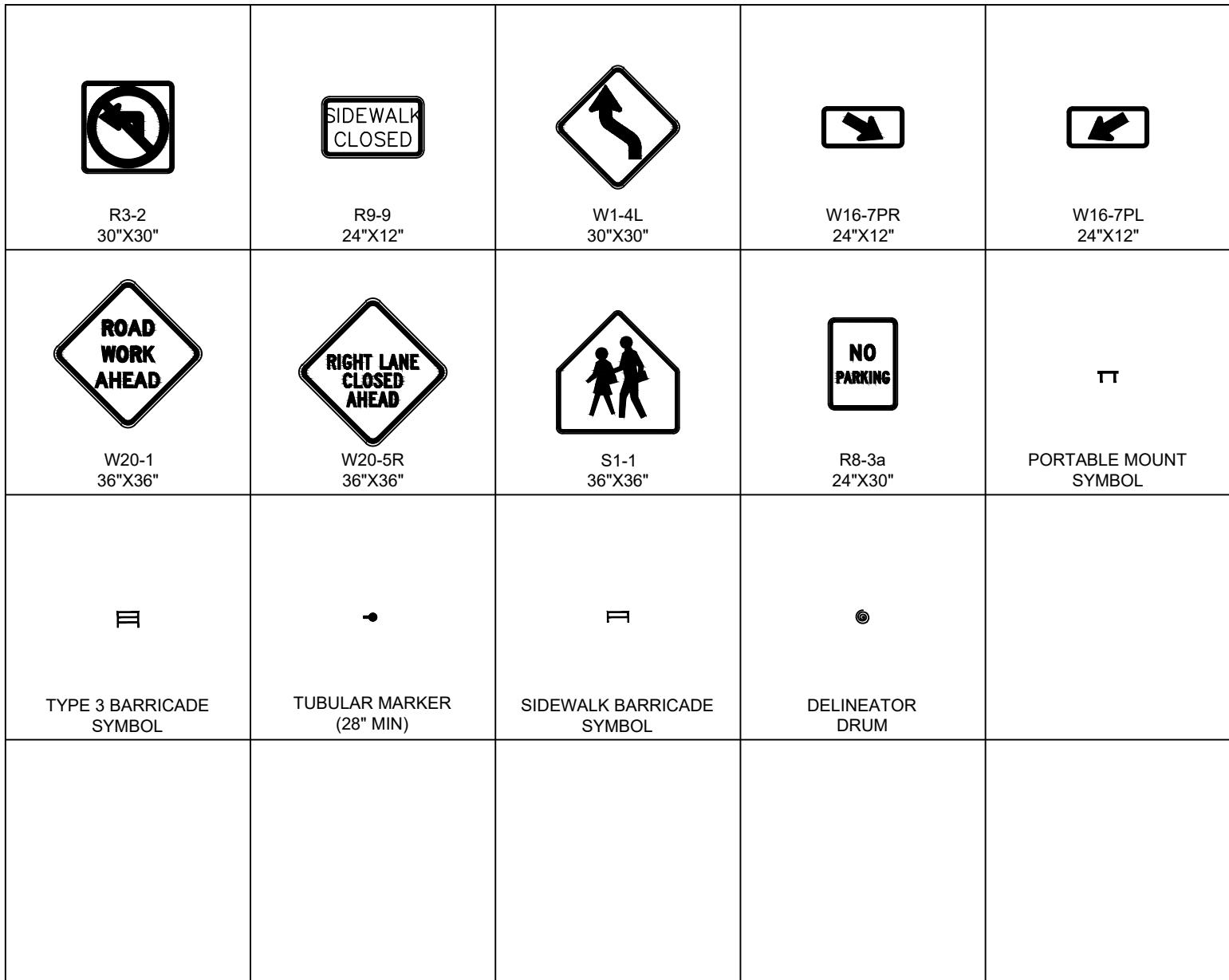
SIDEWALK BARRICADES

1. PROVIDE SELF STANDING SIDEWALK BARRICADE WITH NO SUPPORTS EXTENDING INTO THE PEDESTRIANS PATH.
2. USE ORANGE OR ORANGE AND WHITE DIAGONAL STRIPED BARRICADE PANELS CONTRASTING WITH THE WALKWAY SURFACE.
3. PROVIDE ADA COMPLIANT AND NCHRP 350 OR MASH TEST LEVEL 3 (TL3) APPROVED SIDEWALK BARRICADES.
4. INCLUDES ALL COSTS TO FURNISH, MAINTAIN AND REMOVE SIDEWALK BARRICADES IN THE PRICE BID FOR "SIDEWALK BARRICADE."
5. ADA COMPLIANT ORANGE OR WHITE HIGH DENSITY UV STABILIZED POLYETHYLENE INTERLOCKING WALL PANELS ARE AN ACCEPTABLE ALTERNATIVE TO TRADITIONAL BARRICADES.

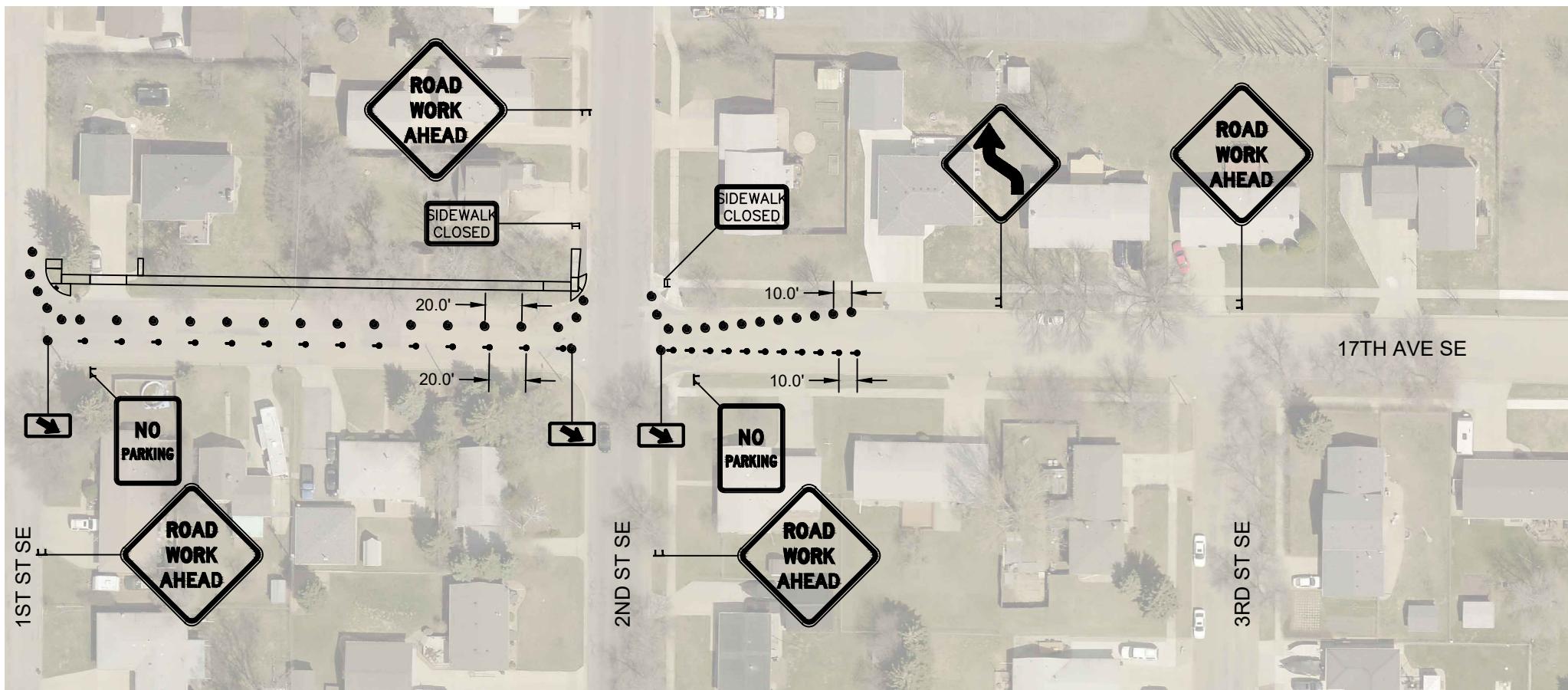
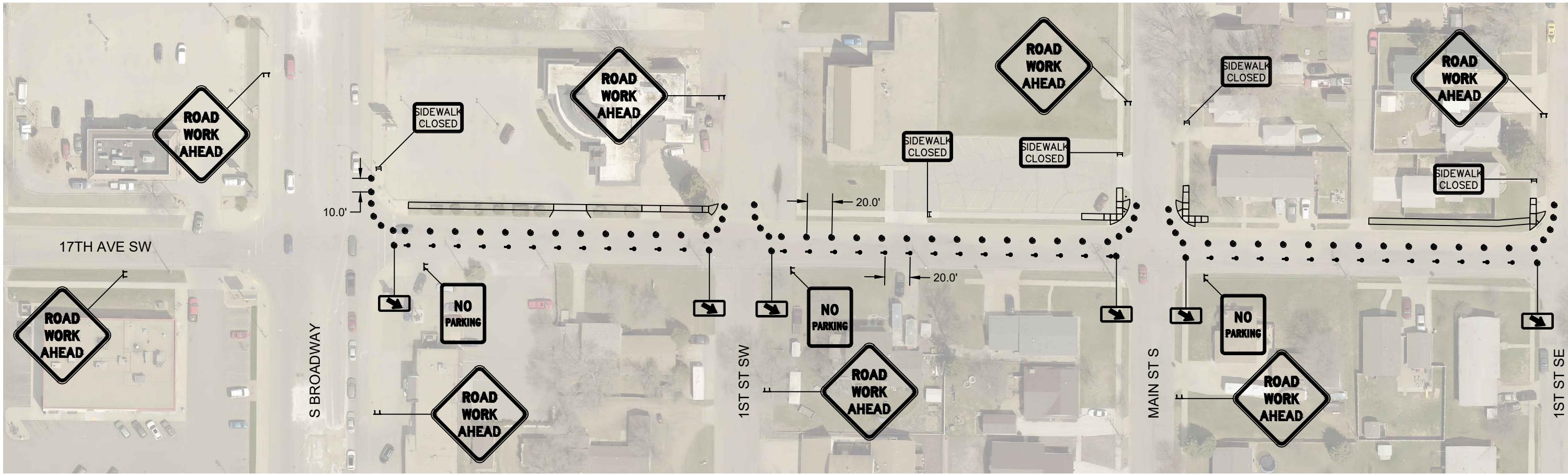


DEVICES DETAILS

STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(131)	23916	100	3



PLAN LEGEND



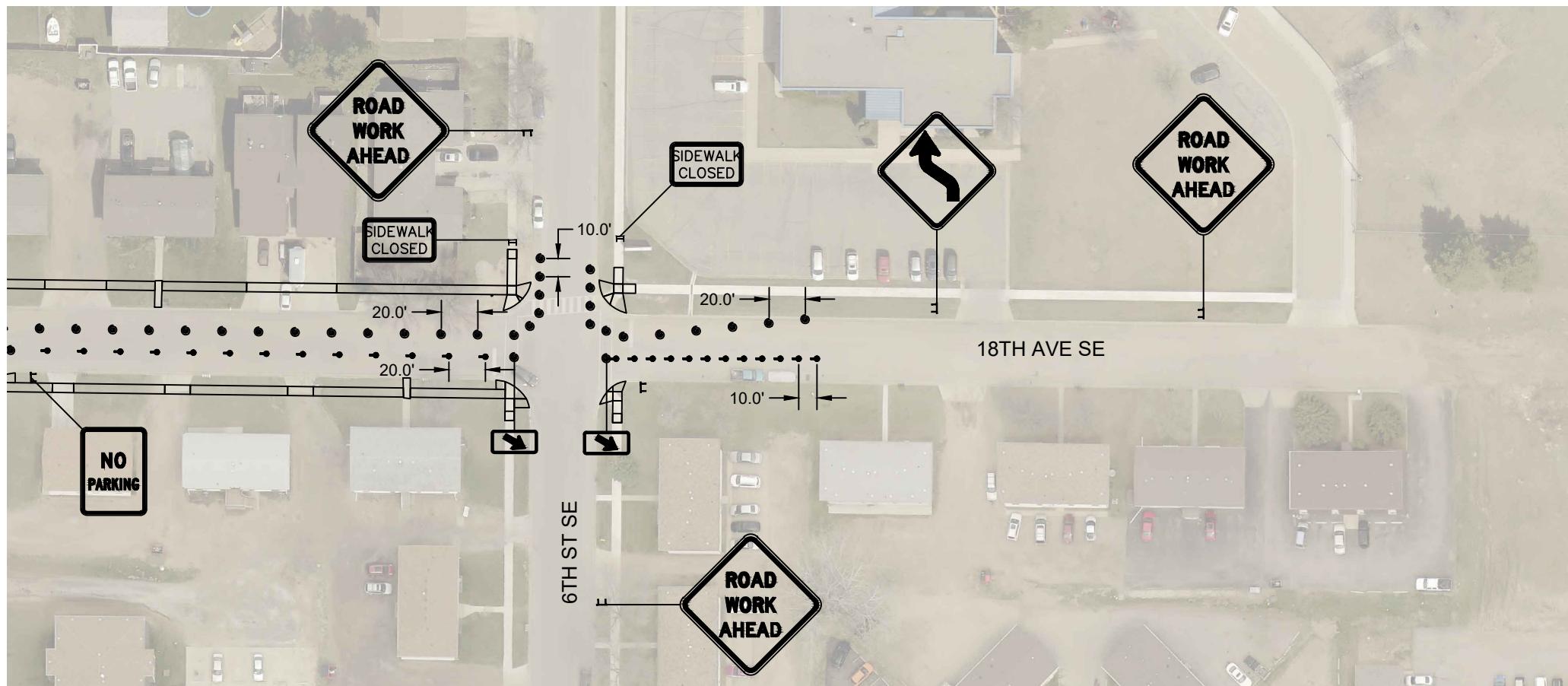
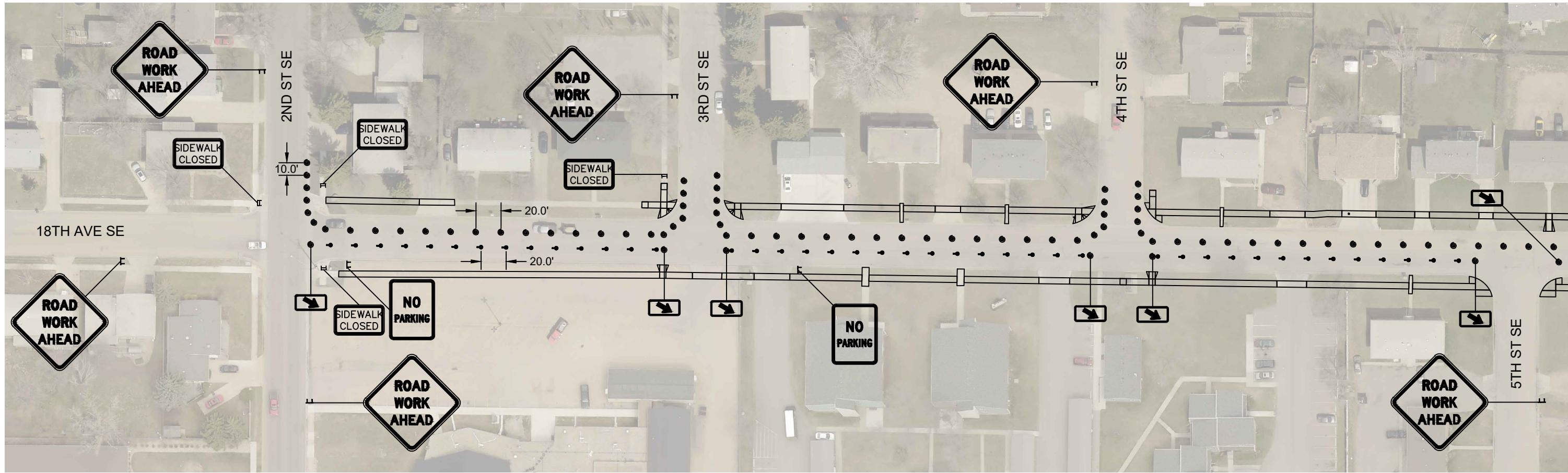
City of Minot



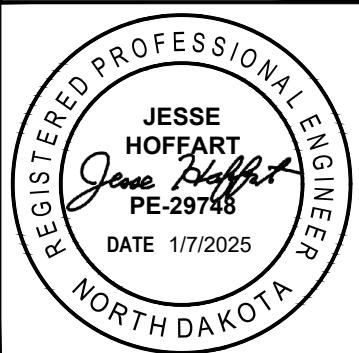
TRAFFIC CONTROL
17TH AVE SW/SE

40 0 40 80
Scale Feet

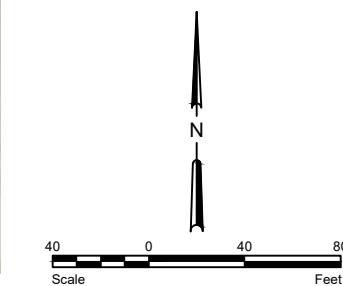
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(131)	23916	100	5



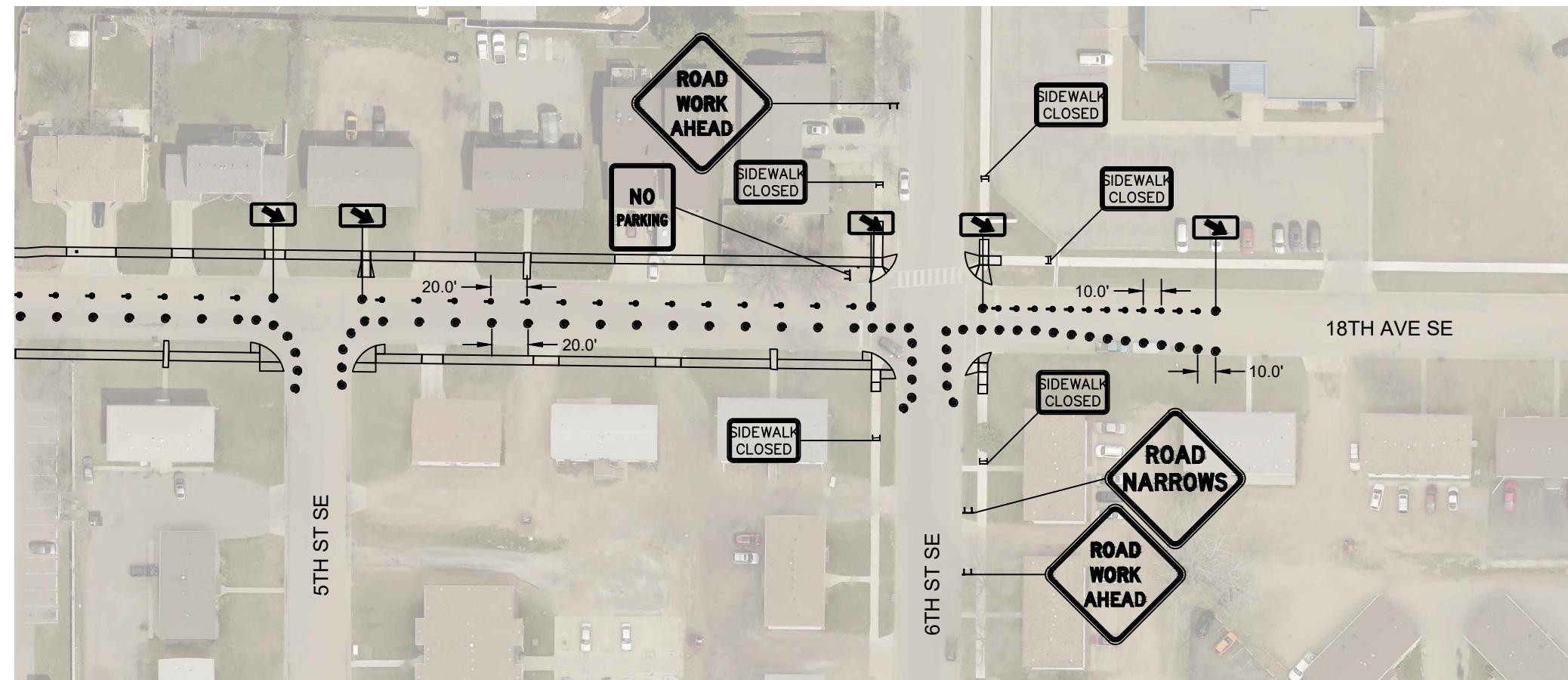
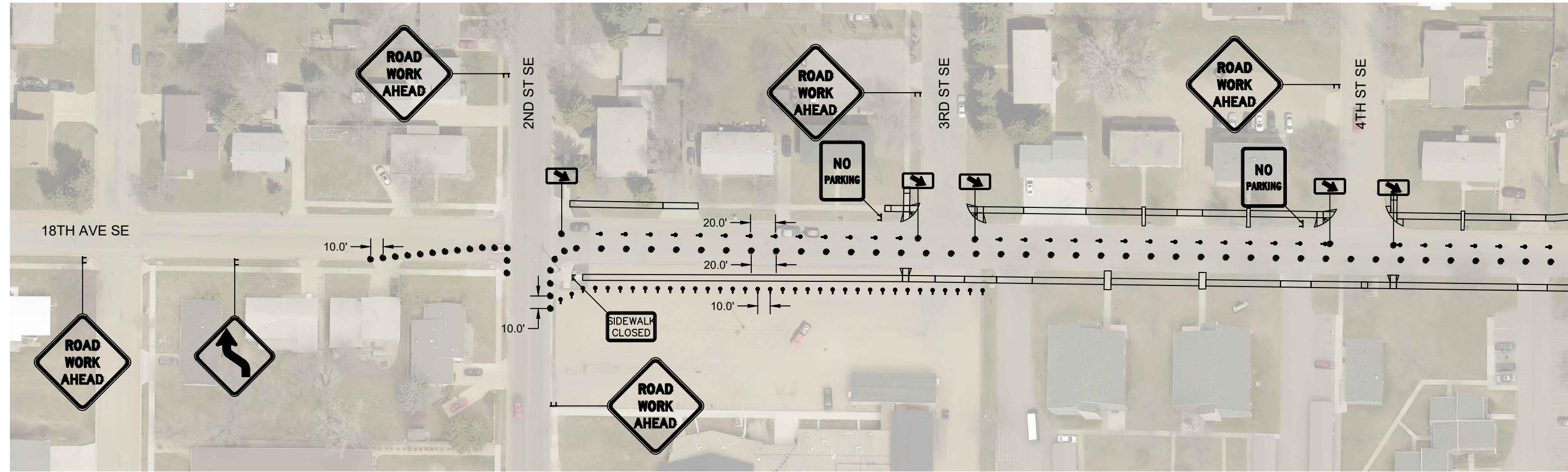
City of Minot



TRAFFIC CONTROL
18TH AVE SE - NORTH SIDE
PHASE I

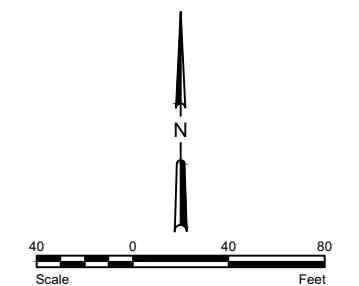


STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(131)	23916	100	6



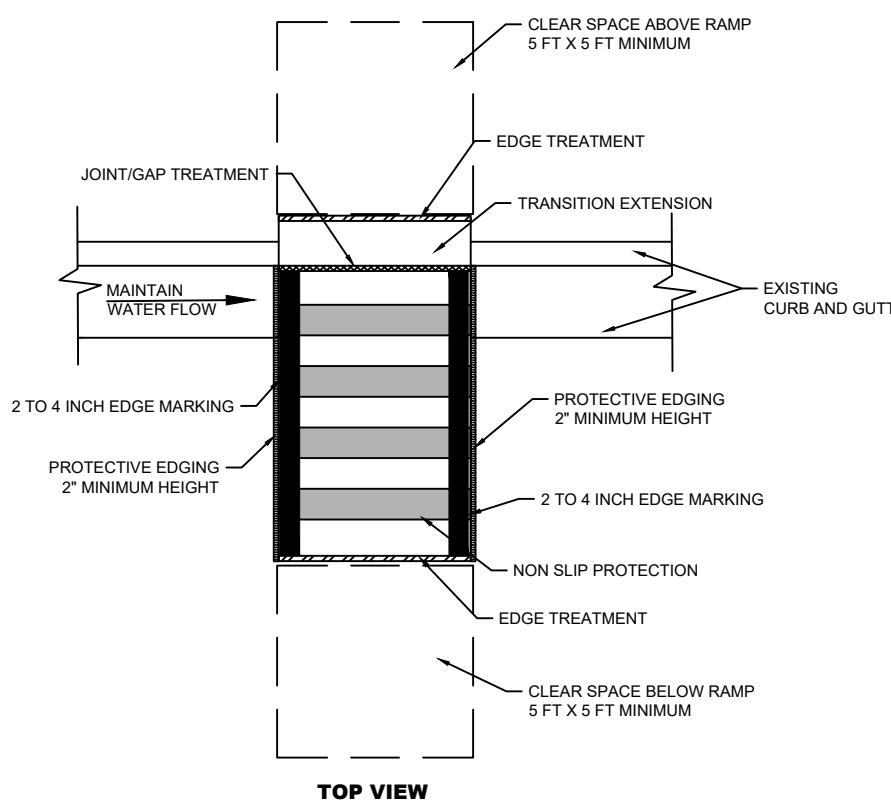
City of Minot

REGISTERED PROFESSIONAL ENGINEER
JESSE HOFFART
Jesse Hoffart
PE-29748
DATE 1/7/2025
NORTH DAKOTA

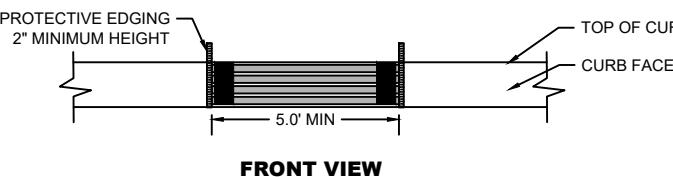


TRAFFIC CONTROL
18TH AVE SE - SOUTH SIDE
PHASE II

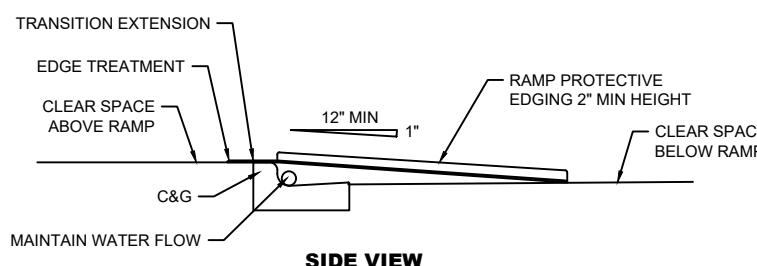
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(131)	23916	100	7



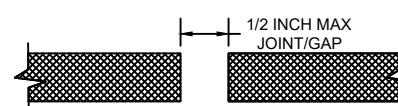
TOP VIEW



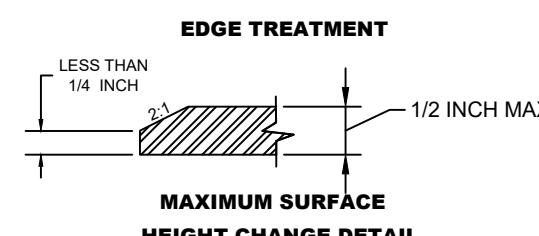
FRONT VIEW



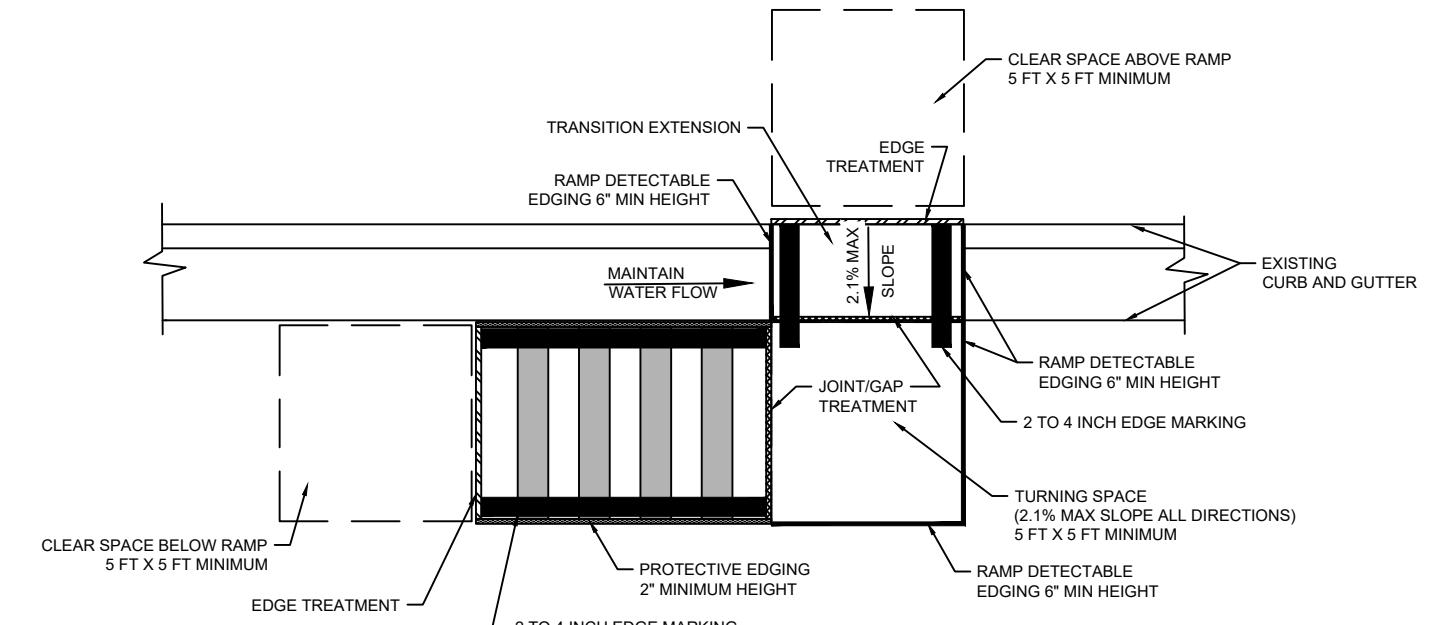
TEMPORARY PERPENDICULAR CURB RAMP



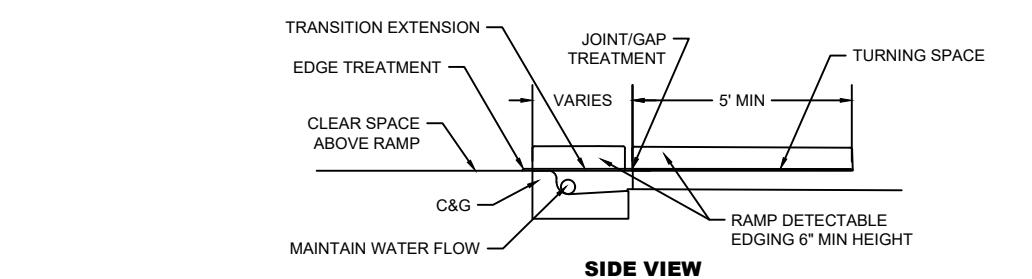
MAXIMUM WIDTH
LATERAL JOINTS OR GAPS



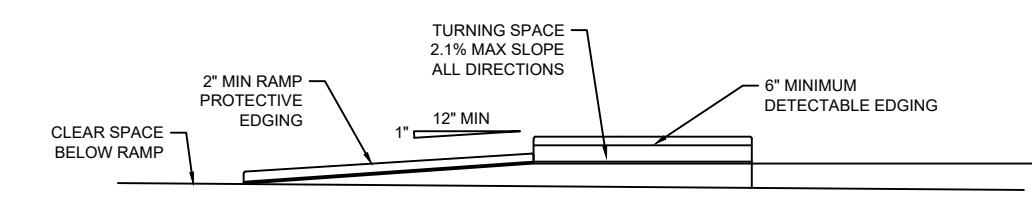
MAXIMUM SURFACE
HEIGHT CHANGE DETAIL



TOP VIEW



SIDE VIEW

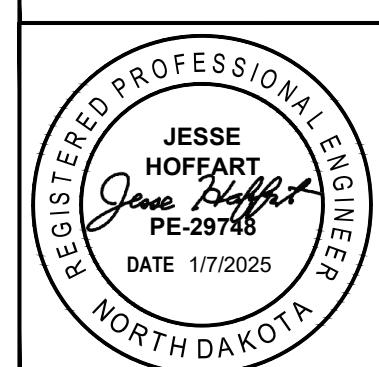


FRONT VIEW

TEMPORARY PARALLEL CURB RAMP

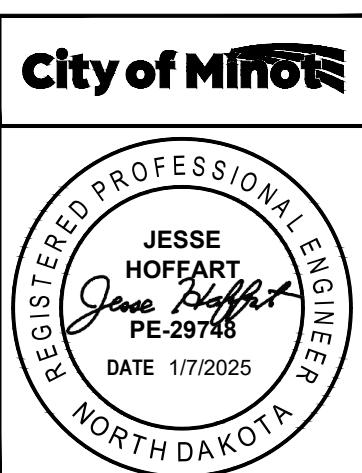
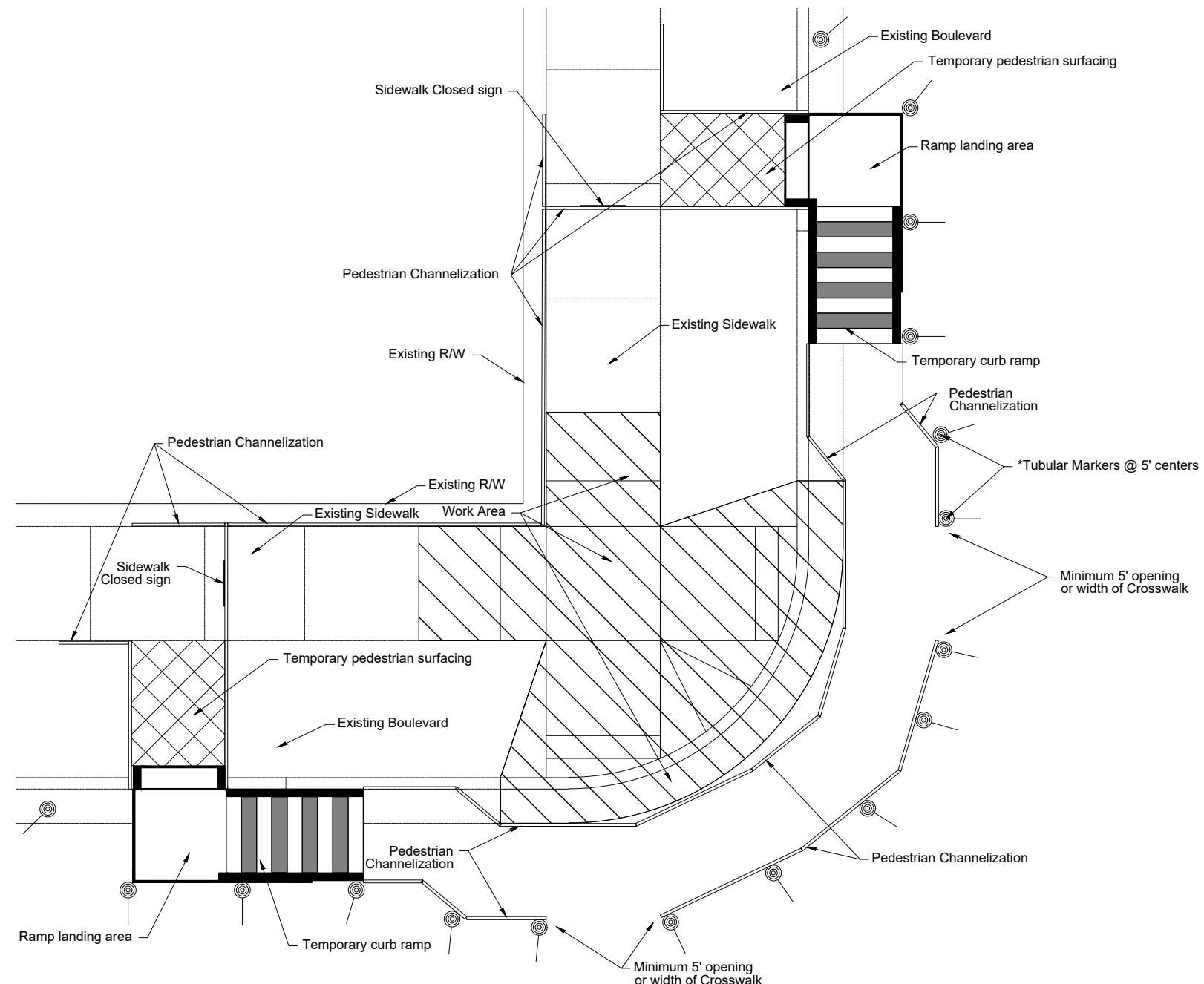
TEMPORARY CURB RAMP
DETAILS

City of Minot

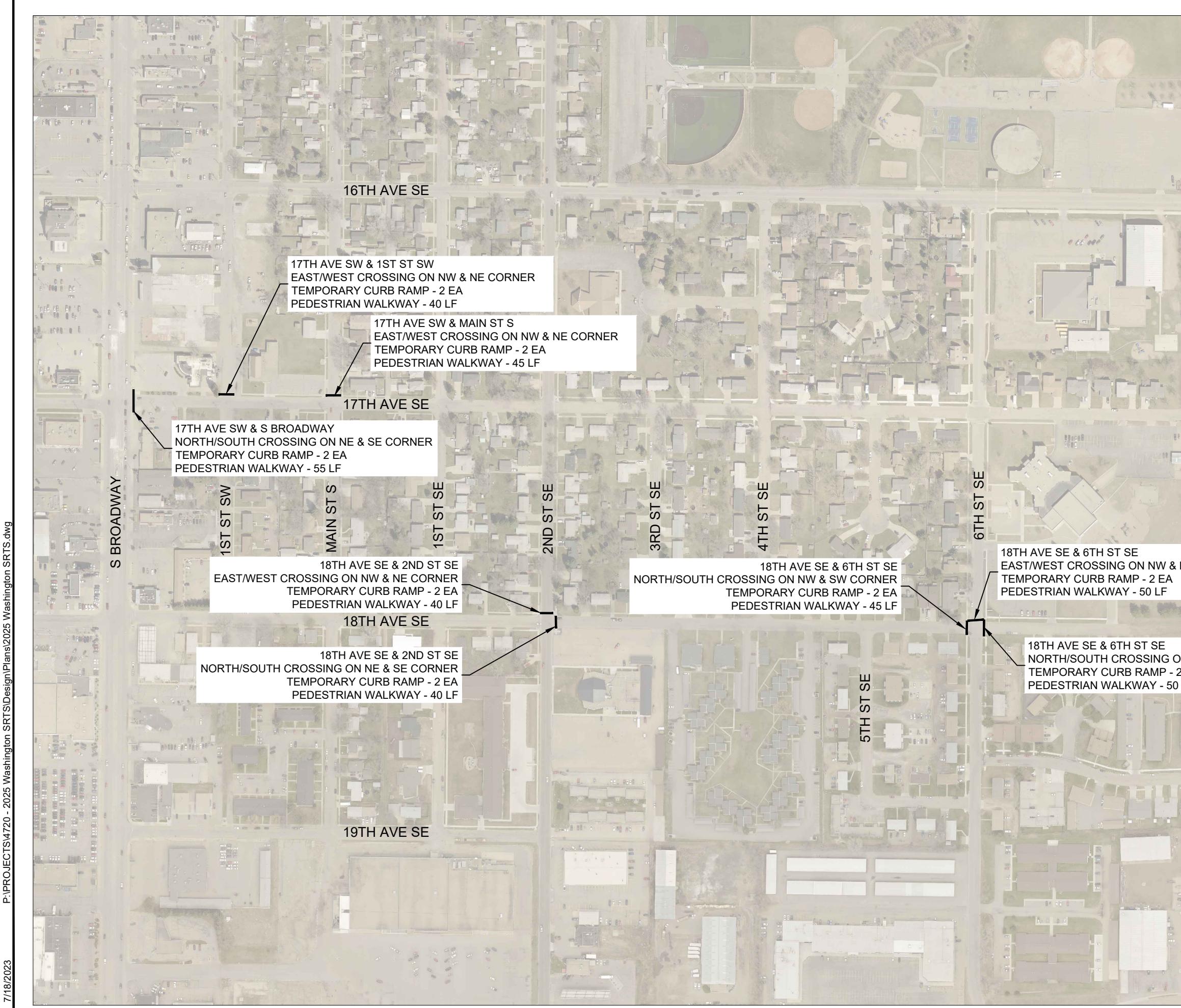


STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(131)	23916	100	8

*NOTE: Eliminate tubular markers if pedestrian channelization is retro-reflective



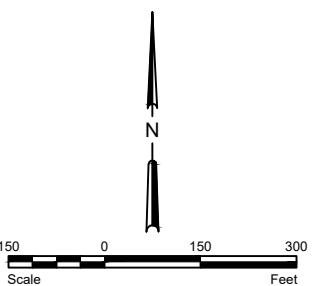
TEMPORARY CURB RAMP
TYPICAL LAYOUT



STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(131)	23916	100	9

LEGEND

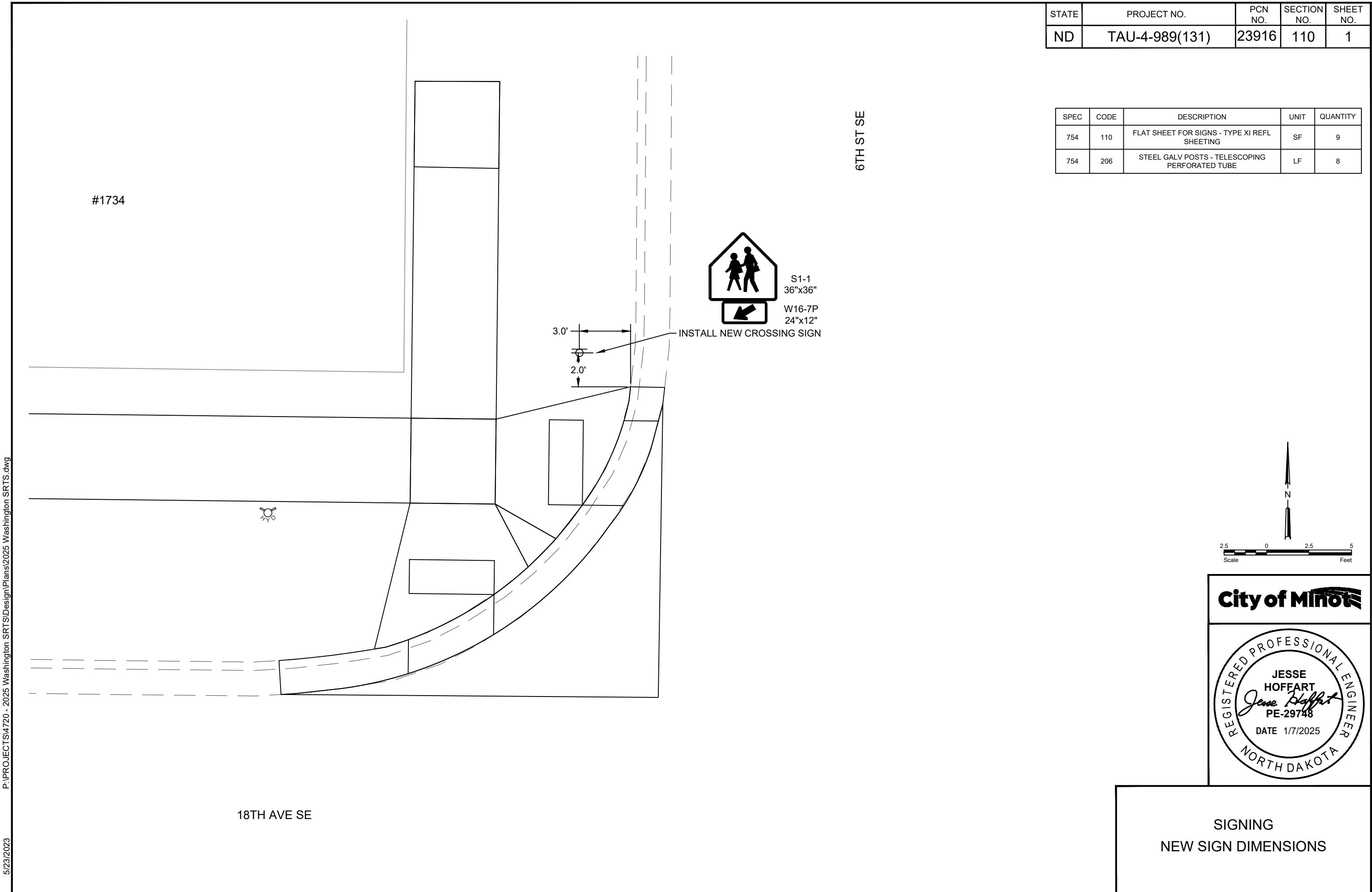
TEMPORARY CURB RAMP &
PEDESTRIAN ROUTE LOCATION



City of Minot



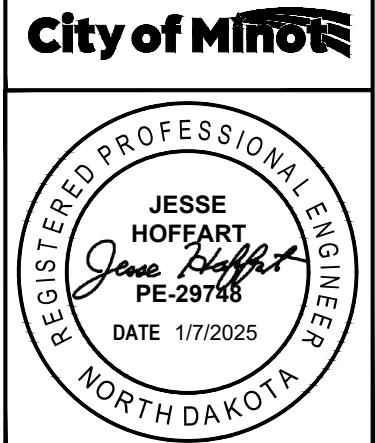
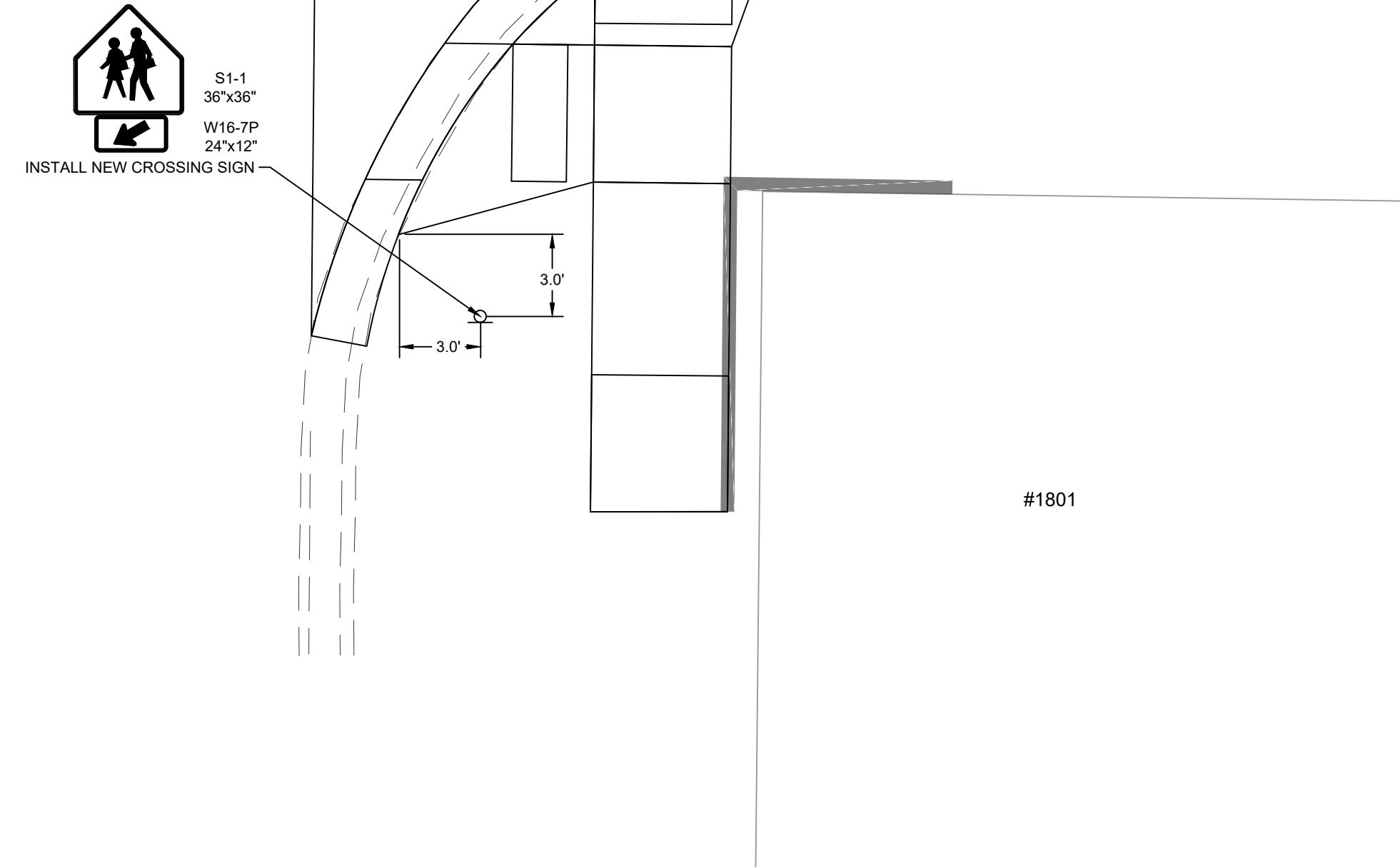
TEMPORARY CURB RAMP
PEDESTRIAN ROUTE
LOCATIONS



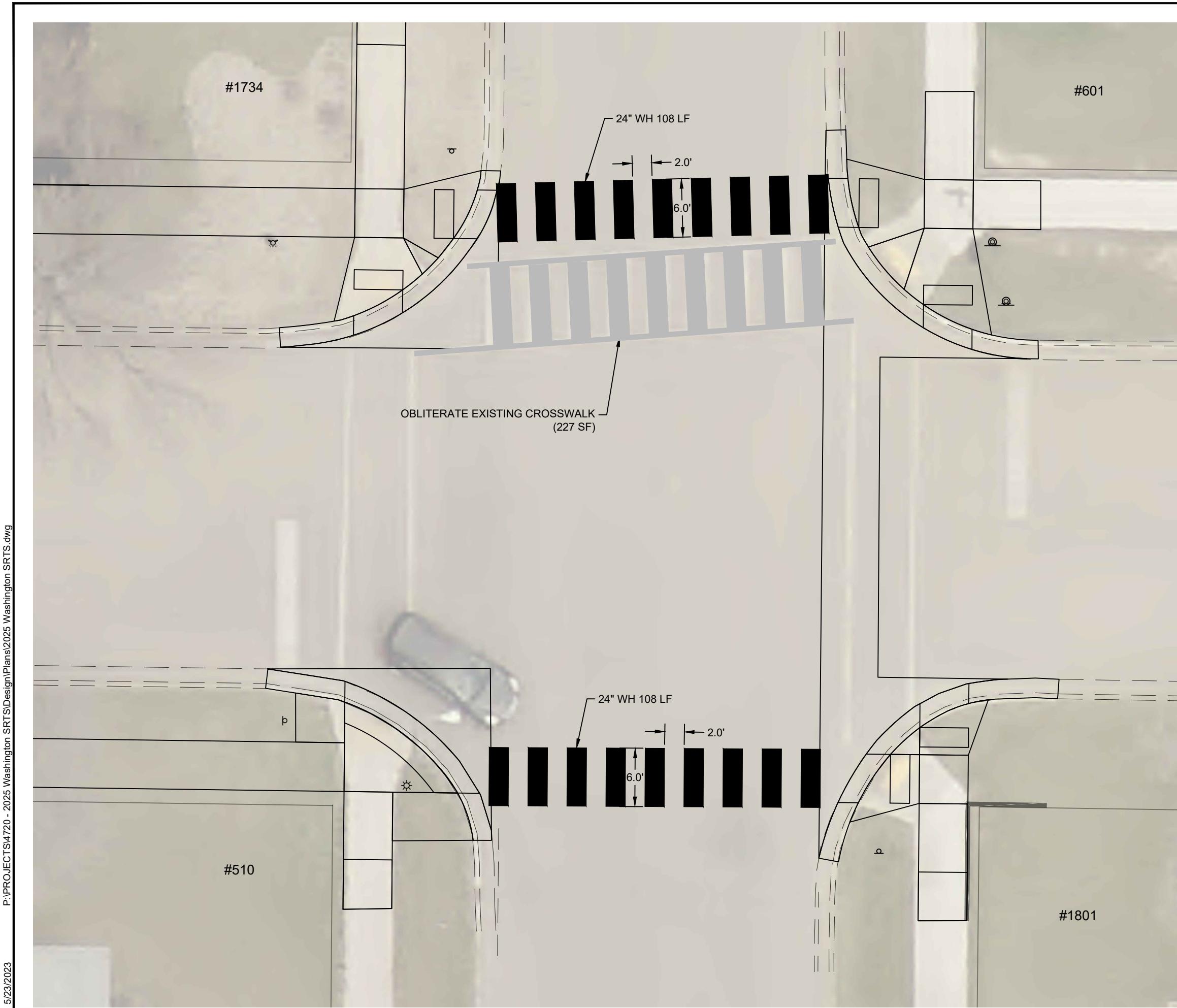
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(131)	23916	110	2

18TH AVE SE

SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
754	110	FLAT SHEET FOR SIGNS - TYPE XI REFL SHEETING	SF	9
754	206	STEEL GALV POSTS - TELESCOPING PERFORATED TUBE	LF	8

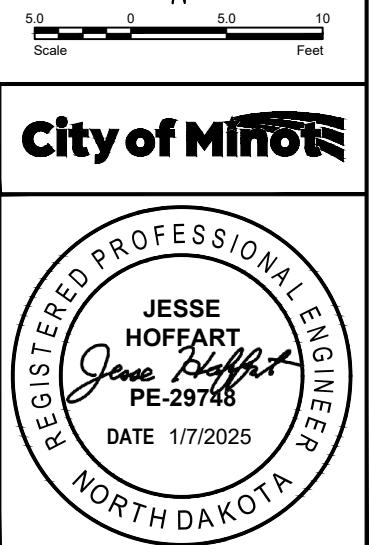


SIGNING
NEW SIGN DIMENSIONS

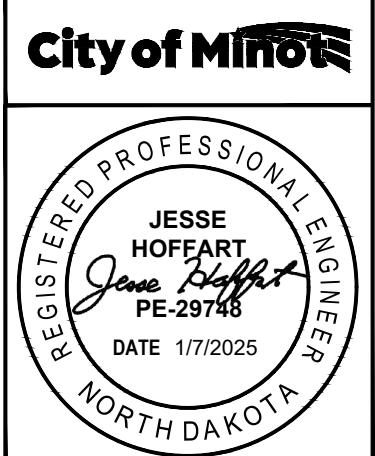
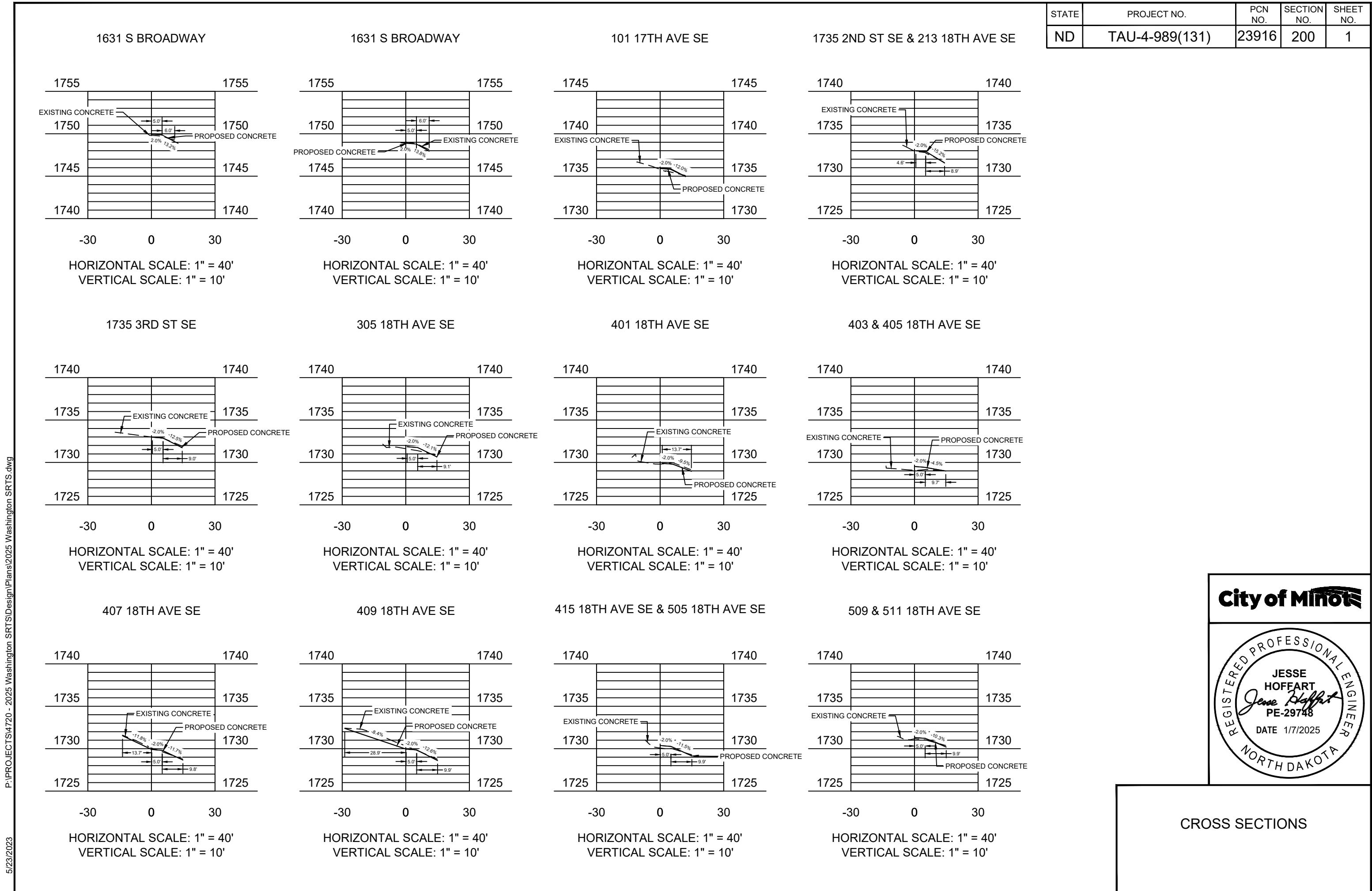


STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(131)	23916	120	1

SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
704	1500	OBLITERATION OF PAVEMENT MARKING	SF	227
762	1270	PREFORMED THERMO PLASTIC PVMT MK 24 IN LINE	LF	216



PAVEMENT MARKINGS
18TH AVE SE & 6TH ST SE



CROSS SECTIONS

