

Anoka County Contract No. C0004771

**JOINT POWERS AGREEMENT
FOR THE SIGNAL RECONSTRUCTION AT COUNTY STATE AID HIGHWAY 7
(SEVENTH AVENUE) AND COUNTY STATE AID HIGHWAY 31/GRANT STREET
IN THE CITY OF ANOKA, MN
(SAP 002-607-023)**

THIS AGREEMENT is made and entered into this 21 day of February, 2017 by and between the County of Anoka, a political subdivision of the State of Minnesota, 2100 Third Avenue, Anoka, Minnesota 55303, hereinafter referred to as "County", and the City of Anoka, 2015 First Avenue North, Anoka, MN 55303, hereinafter referred to as "City".

WITNESSETH

WHEREAS, the parties to this agreement agree it is in the best interest of the traveling public to reconstruct the signal at County State Aid Highway 7 (Seventh Avenue) and County State Aid Highway 31/Grant Street and,

WHEREAS, said parties mutually agree that the signal at County State Aid Highway 7 (CSAH 7) and County State Aid Highway 31 (CSAH 31)/Grant Street is in need of reconstruction; and,

WHEREAS, the County has prepared preliminary design plans for the signal reconstruction at CSAH 7 and CSAH 31/Grant Street in accordance with Anoka County and the Minnesota Department of Transportation standards to a staff approved layout condition; and,

WHEREAS, Anoka County has jurisdiction over CSAH 7 and CSAH 31, west of County State Aid Highway 7 and,

WHEREAS, the City of Anoka has jurisdiction over Grant Street east of County State Aid Highway 7 and,

WHEREAS, the parties agree that it is in their best interest that the cost of said project be shared; and,

WHEREAS, Minn. Stat. § 471.59 authorizes political subdivisions of the state to enter into joint powers agreements for the joint exercise of powers common to each.

NOW, THEREFORE, IT IS MUTUALLY STIPULATED AND AGREED:

I. PURPOSE AND UNDERSTANDING

The parties have joined together for the purpose of reconstructing the traffic control system and pedestrian ramps at the intersection of CSAH 7 (7th Avenue) and CSAH 31/Grant Street; as described in the plans and specifications numbered Anoka County Project SAP 002-607-023 (hereinafter referred to as "Project") on file in the office of the Anoka County Highway Department. As part of the approval of

the Project, the City and County have reached an agreement with regards to other matters which are described below:

The parties to this Joint Powers Agreement (JPA) agree in principle that construction of County State Aid Project No. 002-607-023 at the intersection of CSAH 7 and CSAH 31 is in the best interest of the traveling public and that the Preliminary Layout as shown in Exhibit "A" defines the preliminary design of the Project.

It is agreed that the Exhibit "A" preliminary plan dated November 23, 2015 has been reviewed and accepted by the parties and is suitable for preparation of final construction documents. Any significant changes made hereafter to the design as presented in the Exhibit "A" preliminary plan will require approval by the parties as an amendment to this JPA. These same changes will require a change in the cost share to include any additional design engineering costs that may occur.

IMPROVEMENTS:

It is agreed by the parties that in 2016, the traffic signal system at CSAH 7 and CSAH 31/Grant Street will be reconstructed to the extent shown in "Exhibit A". Improvements include, but are not limited to: traffic signal reconstruction and ADA compliant pedestrian ramps.

INTERSECTIONS:

As agreed by the parties, improvements to the following intersections have been incorporated in the Exhibit "A" preliminary plan:

CSAH 7 / CSAH 31/Grant Street: Full Access Intersection with Traffic Signal

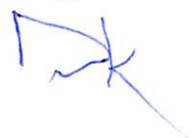
RIGHT OF WAY:

The parties agree that the County will acquire all necessary right-of-way and easements for the Project. Acquisition of any additional right-of-way and/or easements needed for improvements to the City street intersections beyond what is defined in the Exhibit "A" preliminary plan will be the responsibility of the City. It is agreed by the parties that all necessary right of way and easements will be in legal possession of the County prior to acceptance of bids for the project. Any City owned property or easements required for the construction will be conveyed to the County at no cost.

TRAFFIC SIGNALS:

CSAH 7 and CSAH 31/Grant Street Intersection:

The parties agree that the existing traffic control signal system at the CSAH 31 and CSAH 7 intersection will be reconstructed with this project. ~~The parties agree that the cost of the reconstruction of this signal shall be standard County cost share; with 100% of the EVP reconstruction cost to the City; and 62.5% of the traffic signal cost to the City and 37.5% of the traffic signal cost to the County.~~



SIDEWALK:

The parties agree that all proposed sidewalk construction is replacing existing sidewalk. This work is the County's cost since it is replacement of existing sidewalk.

The parties understand that the cost for the sidewalk includes: concrete surfacing, aggregate base, excavation (including muck excavation), borrow material (granular and topsoil), and turf establishment. The parties agree that the County also pays for the design of the sidewalk, the additional right of way and easements required to construct the sidewalk at the proper location, and any removal items required to construct the sidewalk.

TRAFFIC CONTROL:

The parties understand and agree that CSAH 7, CSAH 31, and Grant St. will be open to thru traffic and controlled with an all-way stop during construction. The parties agree and understand the cost share for traffic control for the city shall be a prorated share based on the city project cost divided by the total project cost.

LANDSCAPING/STREETSCAPING:

The parties agree that if the City wishes to include landscaping or streetscape features in the project, they shall be designed in accordance with Anoka County Highway Department Landscape/Streetscape Guidelines. The City shall supply the signed plan sheets and specifications for the proposed landscape/streetscape. The total cost of the design as well as the construction cost above standard median cost will be at the expense of the requesting City or split between the requesting Cities. Future maintenance of any landscaping/streetscaping will be the sole responsibility of the City.

UTILITIES:

The City shall provide all City utility easement documents to the County upon signature of this agreement.

PERMITS:

The parties agree that the County will secure all necessary permits for this Project. The City agrees to coordinate with the County in securing the permits required by the Lower Rum River WMO, city permits, as well as any other permits that may be required. The County also requests that the City inform the County of any ordinances or city regulations that affect construction at the time of the signing of this JPA. (e.g. setbacks, tree clearing ordinances, or any other city ordinances.)

II. METHOD

The County shall cause the construction of Anoka County Project SP 002-607-023, in conformance with proposed engineering plans and specifications.

III. COSTS

The contract costs of the work, or if the work is not contracted, the cost of all labor, materials, normal engineering costs and equipment rental required to complete the work, shall constitute the "actual construction costs" and shall be so referred to herein. "Estimated construction costs" are good faith projections of the costs, which will be incurred for this project. Actual costs will vary and those will be the costs for which the relevant parties will be responsible.

The estimated construction cost of the total project is \$299,410.00. The total estimated construction cost to the City is \$152,396.18. The City participation in construction engineering will be at a rate of eight percent (8%) of their designated construction share of \$152,396.18. The estimated cost to the City for construction engineering is \$12,191.69. In summary, the total City share of this project is \$159,057.54 (includes construction and construction engineering costs). (see summary below).

*(\$152,396.18+ \$12,191.69 = \$164,587.87)

On January 31, 2017, the City shall pay to the County, upon written demand by the County, one hundred percent (100%) of its portion of the cost of the project estimated at \$156,701.08. Prior to billing, this estimate will be updated by the County to reflect the actual construction costs. An updated cost estimate shall be provided to the City at the time of billing. The City's share of the cost of the project shall include only construction and construction engineering expense and does not include engineering design and administrative expenses incurred by the County.

IV. TERM

This Agreement shall continue until terminated as provided hereinafter.

V. DISBURSEMENT OF FUNDS

All funds disbursed by the County or City pursuant to this Agreement shall be disbursed by each entity pursuant to the method provided by law.

VI. CONTRACTS AND PURCHASES

All contracts let and purchases made pursuant to this Agreement shall be made by the County in conformance to the State laws.

VII. STRICT ACCOUNTABILITY

A strict accounting shall be made of all funds and report of all receipts and shall be made upon request by either party. Prior to City payment to the County, Anoka County shall provide the City a copy of all cost participation documents submitted to MnDOT State Aid to assist the City in their application for MSA funding.

VIII. TERMINATION

This Agreement may be terminated by either party at any time, with or without cause, upon not less than thirty (30) days written notice delivered by mail or in person to the other party. If notice is delivered by mail, it shall be deemed to be received two days after mailing. Such termination shall not

be effective with respect to any solicitation of bids or any purchases of services or goods which occurred prior to such notice of termination. The City shall pay its pro rata share of costs which the County incurred prior to such notice of termination.

IX. SIGNALIZATION POWER

The City of Anoka shall at their sole expense, install and cause the installation of an adequate electrical power source to the service cabinet for the CSAH 7/CSAH 31/Grant Street traffic control signal system including any necessary extension of power lines. The City of Anoka shall be the lead agency in this matter. Upon completion of said traffic control signal installation, the ongoing cost of the electrical power to the signal shall be the sole cost and expense of the City of Anoka.

X. MAINTENANCE

- A. Maintenance of the sidewalk shall be the responsibility of the City. The City shall be responsible for general routine maintenance such as, sweeping, clearing, plowing, trash removal and other incidental items.
- B. Maintenance of streetlights and cost of electrical power to the streetlights shall be the sole obligation of the City.
- C. Maintenance of the completed traffic control signals and signal equipment at the CSAH 7/CSAH 31 intersection shall be the sole obligation of the County.
- D. The County shall maintain the said traffic signal controllers, traffic signal and pedestrian indications, loop detectors and associated wiring of the said traffic control signals at the sole obligation of the County.
- E. Painting of the traffic signals shall be the sole obligation of the County. Any variation of painting color standards will be billed to the City.
- F. Timing of the completed traffic control signals shall be determined by the County.
- G. Only the County shall have access to the controller cabinets.
- H. The traffic control signals shall be the property of the County.
- I. The City shall be responsible for maintenance of the luminaries, luminaire relamping, and luminaire painting.
- J. All maintenance of the EVP Systems at the CSAH 7/CSAH 31/Grant Street intersection shall be completed by the County. The City shall be billed by the County on a quarterly basis for all incurred costs.
- K. EVP Emitter Units may be installed on and used only by Emergency Vehicles responding to an emergency as defined in Minnesota Statutes §169.01, Subdivision 5, and §169.03. The City shall provide a list to the County Engineer, or the County's duly appointed representative, of all such vehicles with emitter units on an annual basis.
- L. Malfunctions of the EVP Systems shall be immediately reported to the County.

M. All timing of said EVP Systems shall be determined by the County.

N. In the event said EVP Systems or components are, in the opinion of the County, being misused, or the conditions set forth are violated, and such misuse or violation continues after receipt by the City, written notice thereof from the County, the County shall remove the EVP Systems. Upon removal of the EVP Systems pursuant to this paragraph, the field wiring, cabinet wiring, detector receiver, infrared detector heads and indicator lamps and all other components shall become the property of the County.

XI. NOTICE

For purposes of delivery of any notices herein, the notice shall be effective if delivered to the County Administrator of Anoka County, 2100 Third Avenue, Anoka, Minnesota 55303, on behalf of the County, and to the City Manager of Anoka, 2015 First Avenue North, Anoka, MN 55303, on behalf of the City.

XII. INDEMNIFICATION

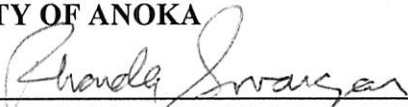
The City and County mutually agree to indemnify and hold harmless each other from any claims, losses, costs, expenses or damages resulting from the acts or omissions of the respective officers, agents, or employees relating to activities conducted by either party under this Agreement.

XIII. ENTIRE AGREEMENT REQUIREMENT OF A WRITING

It is understood and agreed that the entire agreement of the parties is contained herein and that this Agreement supersedes all oral agreements and all negotiations between the parties relating to the subject matter thereof, as well as any previous agreement presently in effect between the parties to the subject matter thereof. Any alterations, variations, or modifications of the provisions of this Agreement shall be valid only when they have been reduced to writing and duly signed by the parties.

IN WITNESS WHEREOF, the parties to this Agreement have hereunto set their hands on the dates written below.

COUNTY OF ANOKA

By: 
Rhonda Sivarajah, Chair
Board of Commissioners

Dated: 5-26-17

CITY OF ANOKA

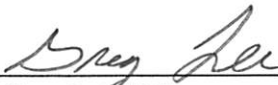
By: 
Phil Rice
Mayor

Dated: 02-21-2017

ATTEST

By: 
Jerry Soma
County Administrator

Dated: 5-26-17

By: 
Greg Lee, P.E.
City Manager/Public Services Director/
City Engineer

Dated: 3/22/17

RECOMMENDED FOR APPROVAL

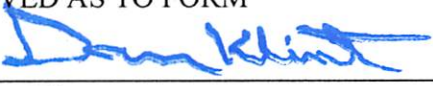
By: 
Douglas W. Fischer, P.E.
County Engineer

Dated: 5/25/17

By: 
Scott Baumgartner
City Attorney

Dated: 3/29/17

APPROVED AS TO FORM

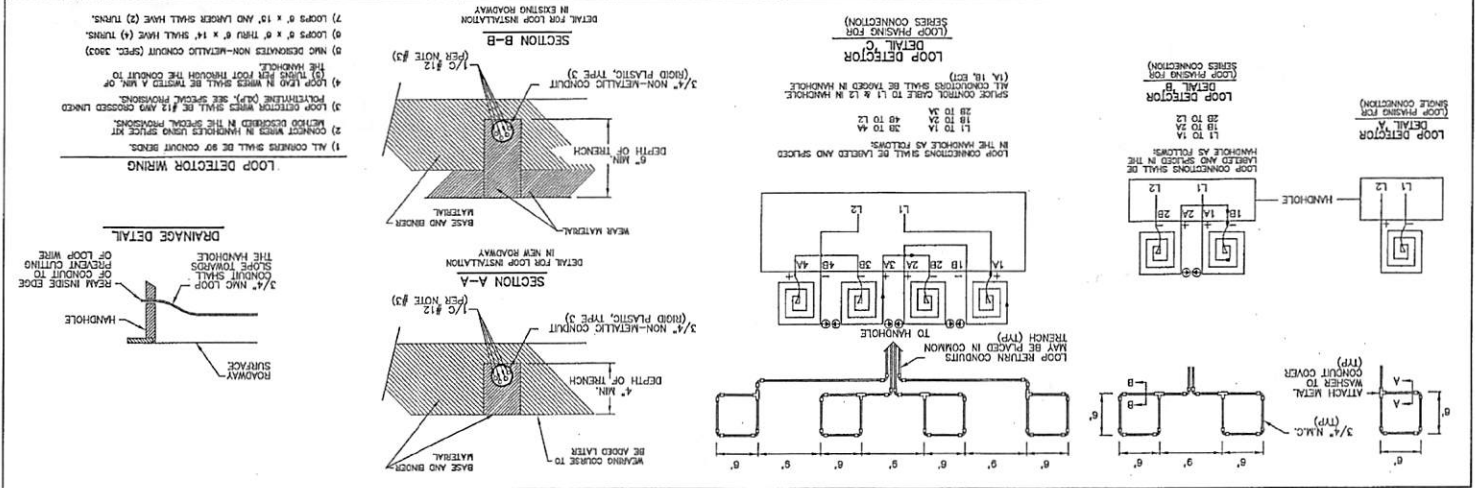
By: 
Dan Klint
Assistant County Attorney

Dated: 5/30/17

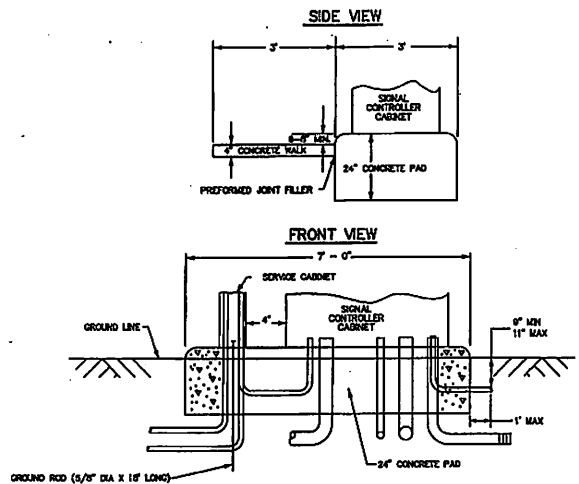
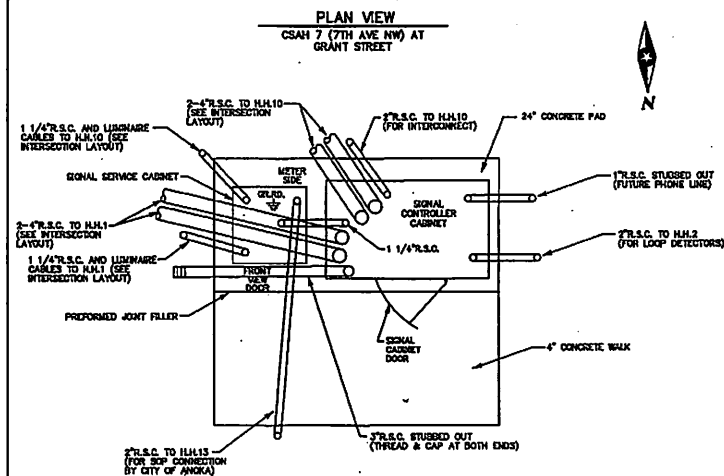
(2) INCLUDES REMOVAL OF ALL REPAIRS, PEDESTRIANS, CURB RAMP, AND PEDESTRIAN CURB RAMP INSTALLATIONS.

STATEMENT OF ESTIMATED QUANTITIES				
ITEM NO	ITEM	UNIT	TOTAL ESTIMATED QUANTITY	SAP QTY PROJ 2019-17
				PARTICIPATION

1) ITEM NO. 1222001 SHALL INCLUDE ALL LABOR AND MATERIALS REQUIRED TO MAINTAIN VEHICULAR AND PEDESTRIAN TRAFFIC THROUGH THE INTERSECTION DURING THE ENTIRE CONSTRUCTION PERIOD. THIS INCLUDES BUT IS NOT LIMITED TO ALL REQUIRED SIGNS AND SIGN SUPPORTS, "STOP" AND "STOP AHEAD" ROAD WORK SIGNS, LEFT/RIGHT LANE CLOSING SIGNS, "ROADWAY CLOSED" (ETC.) TRAFFIC CONTROL NOISES.



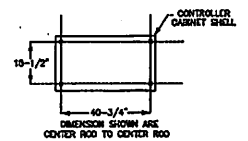
TYPICAL PAD WITH CONTROLLER CABINET AND SERVICE CABINET SEE INTERSECTION LAYOUT FOR CABLE INFORMATION (NOT TO SCALE)



NOTES:

1. THE ANCHOR RODS, NUTS AND WASHERS FOR THE COUNTY FURNISHED CONTROLLER AND CABINET SHALL BE FURNISHED BY THE COUNTY AND INSTALLED BY THE CONTRACTOR.
2. THE UPPER PART OF THE NEW EQUIPMENT PAD SHALL BE REVEALED OR CHAMFERED IN A NEAT MANNER AS DIRECTED BY THE ENGINEER.
3. THE TOP OF THE CONDUITS SHALL BE DREADED AND CAPPED AFTER INSTALLATION (UNTIL CABLES ARE INSTALLED).
4. CONDUIT SHALL PROJECT A MINIMUM OF 3\"
5. CONDUIT SHALL BE LOCATED INSIDE THE CABINET WHERE DIRECTED BY THE ENGINEER, BUT SHALL NOT INTERFERE WITH THE CABINET FUNCTIONS (SUPPORTING MEMBERS, ETC.).
6. CONCRETE MIX 3432 OR EQUAL SHALL BE USED FOR THE EQUIPMENT PAD AND SIDEWALK.
7. CONDUITS WITH BOTH ENDS TERMINATING WITHIN THE PAD SHALL NOT BE INSTALLED BELOW THE CONCRETE.
8. THE EXACT LOCATION OF CONDUITS WITHIN THE PAD SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.
9. ANCHOR RODS SHALL PROJECT A MINIMUM OF 3\"
10. CONTRACTOR SHALL PROVIDE MINIMUM 4-INCH CLEARANCE BETWEEN CONTROLLER AND SERVICE CABINETS ON THE EQUIPMENT PAD FOUNDATION AS SHOWN.

CONTROLLER CABINET TYPE "P" & "R" BOLT PATTERN



DESIGNED BY: AG	DATE: 12/18/18	BY: [Signature]	DATE: 12/18/18	REVISIONS:	1. REVISION: 12/18/18	2. REVISION: 12/18/18	3. REVISION: 12/18/18	4. REVISION: 12/18/18	5. REVISION: 12/18/18	6. REVISION: 12/18/18	7. REVISION: 12/18/18	8. REVISION: 12/18/18	9. REVISION: 12/18/18	10. REVISION: 12/18/18	11. REVISION: 12/18/18	12. REVISION: 12/18/18	13. REVISION: 12/18/18	14. REVISION: 12/18/18	15. REVISION: 12/18/18	16. REVISION: 12/18/18	17. REVISION: 12/18/18	18. REVISION: 12/18/18	19. REVISION: 12/18/18	20. REVISION: 12/18/18	21. REVISION: 12/18/18	22. REVISION: 12/18/18	23. REVISION: 12/18/18	24. REVISION: 12/18/18	25. REVISION: 12/18/18	26. REVISION: 12/18/18	27. REVISION: 12/18/18	28. REVISION: 12/18/18	29. REVISION: 12/18/18	30. REVISION: 12/18/18	31. REVISION: 12/18/18	32. REVISION: 12/18/18	33. REVISION: 12/18/18	34. REVISION: 12/18/18	35. REVISION: 12/18/18	36. REVISION: 12/18/18	37. REVISION: 12/18/18	38. REVISION: 12/18/18	39. REVISION: 12/18/18	40. REVISION: 12/18/18	41. REVISION: 12/18/18	42. REVISION: 12/18/18	43. REVISION: 12/18/18	44. REVISION: 12/18/18	45. REVISION: 12/18/18	46. REVISION: 12/18/18	47. REVISION: 12/18/18	48. REVISION: 12/18/18	49. REVISION: 12/18/18	50. REVISION: 12/18/18
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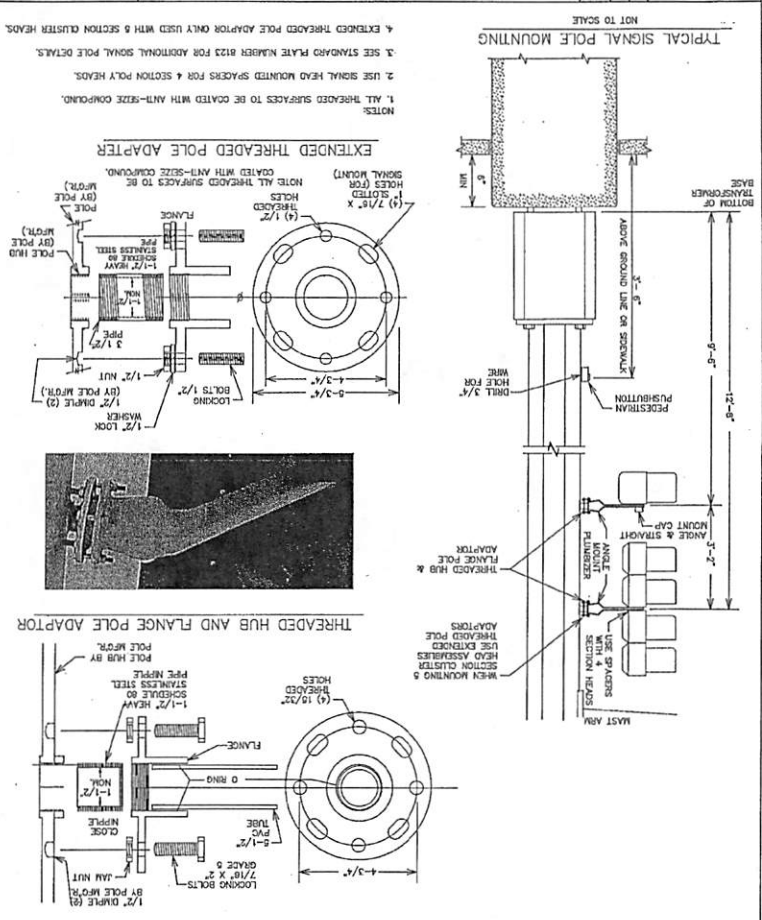
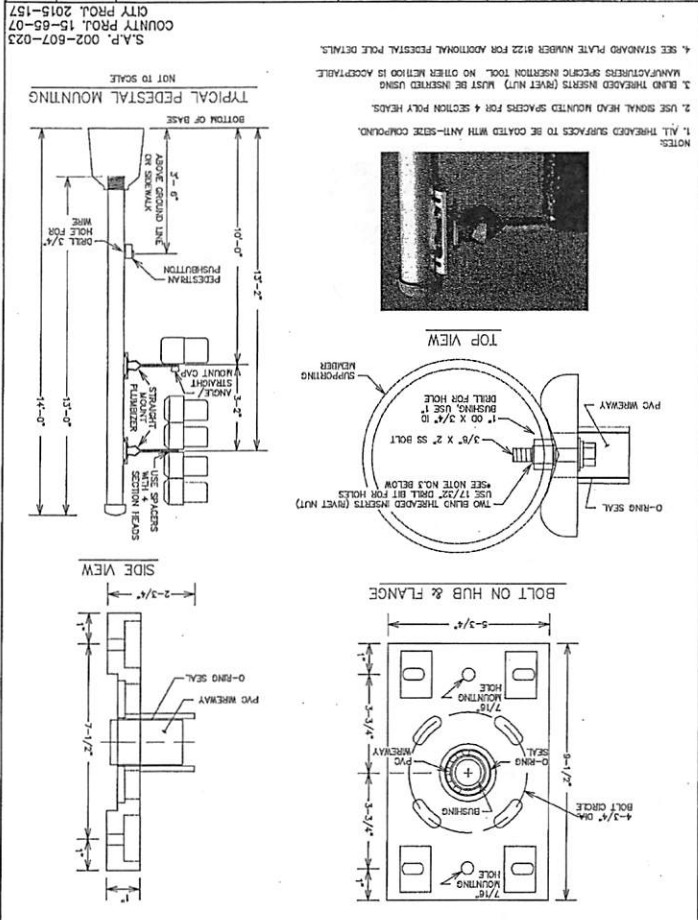
S.A.P. 002-807-023
COUNTY PROJ. 15-85-07
CITY PROJ. 2015-157

ANOKA COUNTY
CITY OF ANOKA

TRAFFIC CONTROL SIGNAL SYSTEM
EQUIPMENT PAD DETAILS
CSAH 7 (7TH AVE NORTH) AT
GRANT STREET (CSAH 50)

FILE NO.
ANOKA 132413
4
29

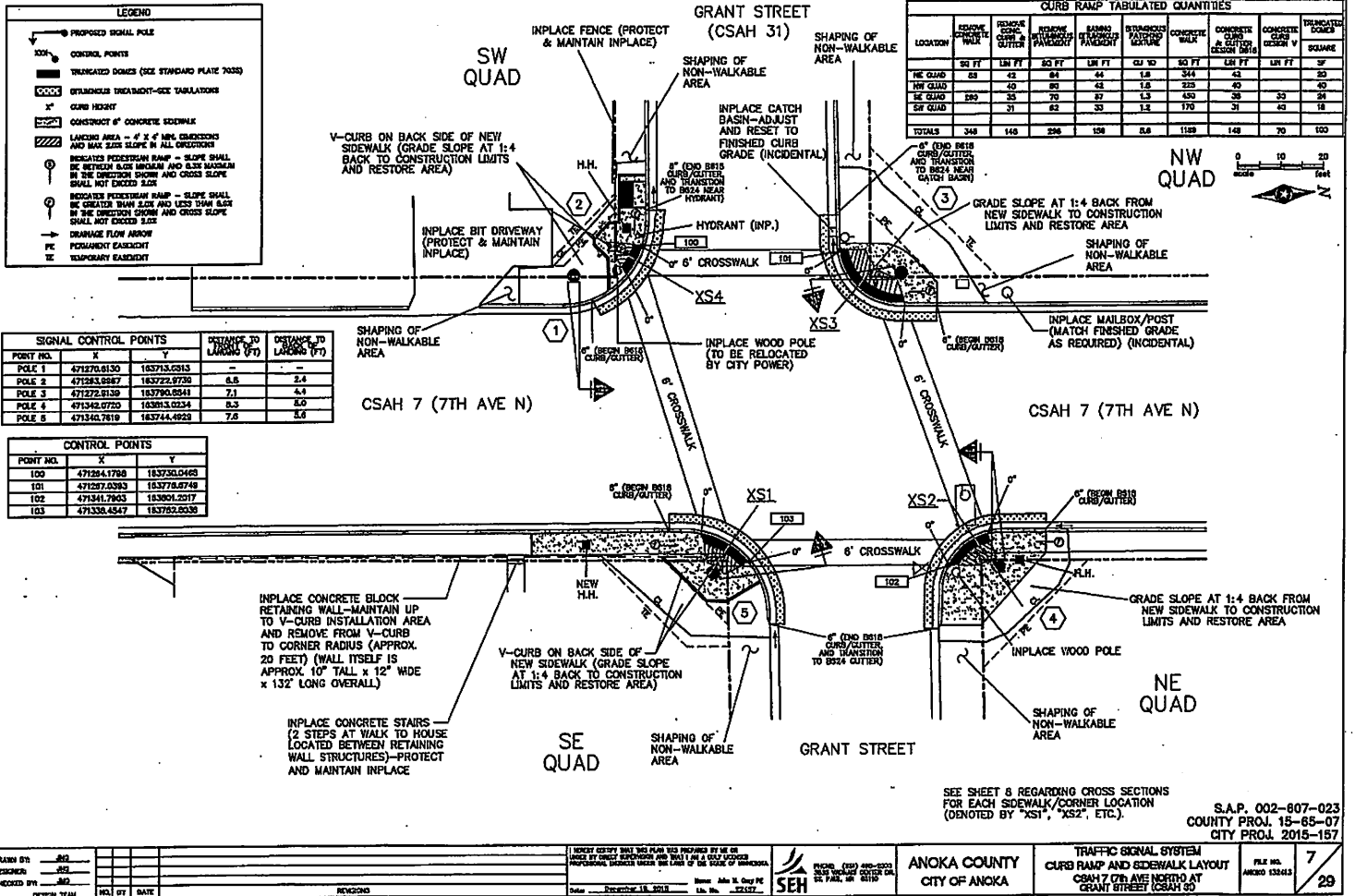
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LEGEND	
PROPOSED SIGNAL POLE	
CONTROL POINTS	
TRUNCATED DOMES (SEE STANDARD PLATE 703D)	
STANDARD TREATMENT-SEE TABULATIONS	
CURB HEIGHT	
CONSTRUCT 6" CONCRETE SIDEWALK	
LANDING AREA - 4' X 4' MIN. DIMENSIONS AND MAX. SLOPE 1:4 IN ALL DIRECTIONS	
INDICATES PEDESTRIAN RAMP - SLOPE SHALL BE BETWEEN 1:12 MINIMUM AND 1:20 MAXIMUM IN THE DIRECTION SHOWN AND CROSS SLOPE SHALL NOT EXCEED 5:1	
INDICATES PEDESTRIAN RAMP - SLOPE SHALL BE GREATER THAN 1:20 AND LESS THAN 1:12 IN THE DIRECTION SHOWN AND CROSS SLOPE SHALL NOT EXCEED 5:1	
PERMANENT EASEMENT	
TEMPORARY EASEMENT	

SIGNAL CONTROL POINTS			
POINT NO.	X	Y	
POLE 1	471270.8130	183715.0513	
POLE 2	471283.0867	183722.9739	
POLE 3	471272.8139	183790.8541	
POLE 4	471342.0720	183813.0234	
POLE 5	471340.7819	183744.4823	

CONTROL POINTS		
POINT NO.	X	Y
100	471284.1798	183730.0465
101	471287.0383	183778.8748
102	471341.7923	183801.2017
103	471338.4547	183762.6338



CURB RAMP TABULATED QUANTITIES											
LOCATION	REMOVE CONCRETE WALK	REMOVE CURB & GUTTER	REMOVE EXISTING PAVEMENT	REMOVE EXISTING PAVEMENT	STRIP/PAVE PATCHED MORTAR	CONCRETE WALK	CONCRETE CURB & GUTTER (SECTION 010)	CONCRETE CURB (SECTION V)	TRUNCATED DOMES		
	SQ FT	LN FT	SQ FT	LN FT	SQ YD	SQ FT	LN FT	LN FT	SQ	LN FT	SQ
NE QUAD	65	42	84	44	1.8	344	43		25		
NW QUAD	40	80	44	44	1.8	235	42		40		
SE QUAD	290	55	70	87	1.5	450	38	33	81		
SW QUAD	21	62	33	33	1.5	170	31	42	18		
TOTALS	340	145	236	108	6.6	1189	148	70	103		



SEE SHEET 8 REGARDING CROSS SECTIONS FOR EACH SIDEWALK/CORNER LOCATION (DENOTED BY "XS1", "XS2", ETC.).

S.A.P. 002-807-023
COUNTY PROJ. 15-65-07
CITY PROJ. 2015-157

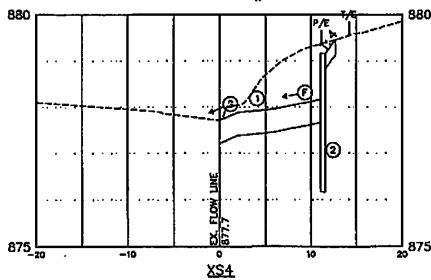
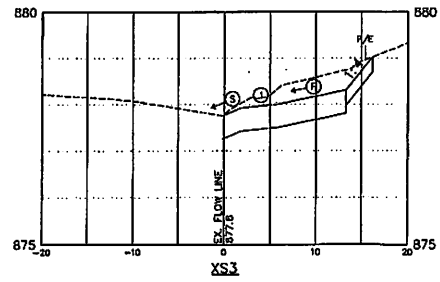
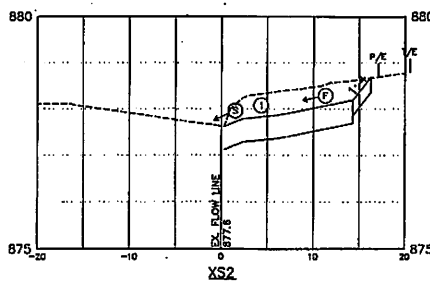
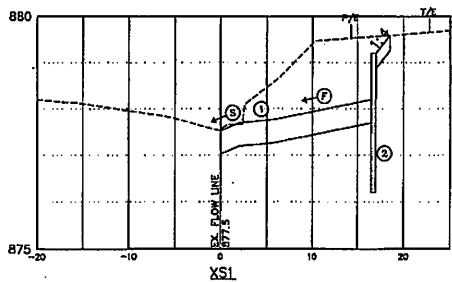
ANOKA COUNTY
CITY OF ANOKA

TRAFFIC SIGNAL SYSTEM
CURB RAMP AND SIDEWALK LAYOUT
CSAH 7 (7TH AVE NORTH) AT
GRANT STREET (CSAH 31)

FILE NO.
ANOKA 132415

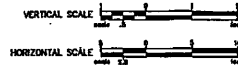
7
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LEGEND:

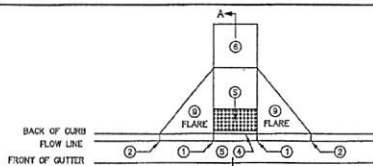
- ① MAXIMUM 2% SLOPE
- ② DESIGN V6 CONCRETE CURB
- ③ INDICATES PEDESTRIAN RAMP - SLOPE SHALL BE BETWEEN 5.0% MINIMUM AND 8.3% MAXIMUM IN THE DIRECTION SHOWN AND CROSS SLOPE SHALL NOT EXCEED 2.0%
- ④ INDICATES PEDESTRIAN RAMP - SLOPE SHALL BE GREATER THAN 2.0% AND LESS THAN 5.0% IN THE DIRECTION SHOWN AND CROSS SLOPE SHALL NOT EXCEED 2.0%



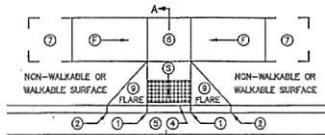
S.A.P. 002-607-023
COUNTY PROJ. 15-65-07
CITY PROJ. 2015-157

DESIGNED BY: JC	DATE: 10/15/15	REVISIONS:	1. HENRY COUNTY THAT THE PLAN WAS PREPARED BY THE SEH	ANOKA COUNTY	TRAFFIC SIGNAL SYSTEM	FILE NO. 15-65-07	8
CHECKED BY: JC	DATE: 10/15/15		FOR THE CITY OF ANOKA	CITY OF ANOKA	CROSS-SECTIONS FOR BOULEVARDS	ANOKA 15-65-07	29
DESIGNED BY: JC	DATE: 10/15/15		FOR THE CITY OF ANOKA		CSAH 7 (7th AVE NORTH) AT		
					GRANT STREET (CSAH 20)		

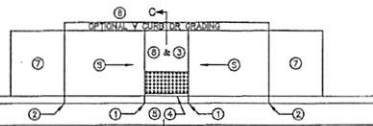
(1) PROVIDE A S&W CUT AT ALL REMOVAL LIMITS OR REMOVE TO NEAREST JUNT.
(2) CLASSIFY AS REMOVED OR REPAIRABLE. THE EXAMINATION REPORTOR PREPARE THE
APPROPRIATE S&W. CLASSIFY COMMON DEFECTS AND TYPICAL DEFECTS AS REMOVED OR REPAIRABLE.
(3) ALL DEFECTS ARE TO BE REPAIRED OR REMOVED.
(4) THE REMOVED DEFECTS SHALL HAVE A MINIMUM TOP SURF AND SHALL BE REPAIRED
AS FOLLOWS:
- SECONDARY
- REPAIR OR REPLACE AT A RATE OF 220 LB/MSD.
(5) REPAIRATION WILL BE MEASURED AND PAID FOR SEPARATELY.



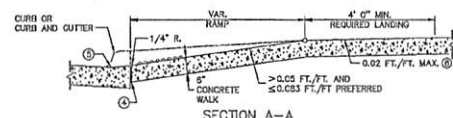
PERPENDICULAR



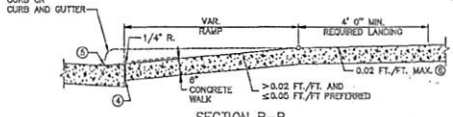
TIERED PERPENDICULAR



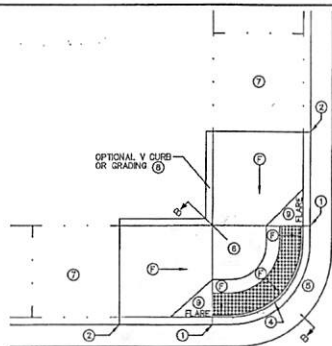
PARALLEL



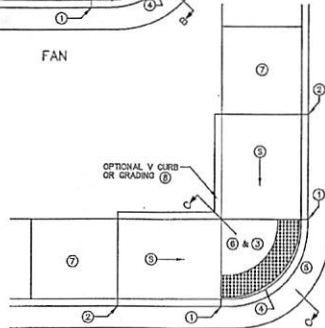
SECTION A-A PERPENDICULAR/TIERED/DIAGONAL



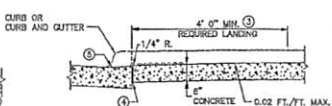
SECTION B-B FAN



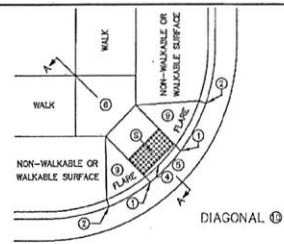
FAN



DEPRESSED CORNER



SECTION C-C PARALLEL/DEPRESSED CORNER



DIAGONAL

NOTES:
LANDINGS SHALL BE LOCATED ANYWHERE THE PEDESTRIAN ACCESS ROUTE CHANGES DIRECTION, AT THE TOP OF RAMP THAT HAVE RUNNING SLOPES GREATER THAN 5.0%, AND IF THE APPROACHING WALK IS INVERSE GRADE.
METAL CURB RAMP LANDINGS SHALL BE CONSTRUCTED WITHIN 15" FROM THE BACK OF CURB, WITH 6" FROM THE BACK OF CURB BEING THE PREFERRED DISTANCE.
SECONDARY CURB RAMP LANDINGS ARE REQUIRED FOR EVERY 30' OF VERTICAL RISE WHEN THE LONGITUDINAL SLOPE IS GREATER THAN 5.0%.
CONSTRUCTION JOINTS SHALL BE CONSTRUCTED ALONG ALL GRADE BREAKS.
ALL GRADE BREAKS WITHIN THE PAR SHALL BE PERPENDICULAR TO THE PATH OF TRAVEL TO ENSURE RAMP AND LANDINGS ARE PROPERLY CONSTRUCTED. LANDINGS MAY BE CAST SEPARATELY. FOLLOW SIDEWALK REINFORCEMENT DETAILS ON SHEET 5 WHEN LANDINGS ARE CAST SEPARATELY.
ALL SLOPES ARE ABSOLUTE, RATHER THAN RELATIVE TO SIDEWALK/ROADWAY GRADES.
TOP OF CURB SHALL MATCH PROPOSED ADJACENT WALK GRADE.
4' MINIMUM WIDTH OF DETECTABLE WARNING IS REQUIRED FOR ALL RAMP. DETECTABLE WARNING SHALL CONTINUOUSLY EXTEND FOR A MINIMUM OF 24" IN THE PATH OF TRAVEL. SHARED USE PATHS SHALL HAVE DETECTABLE WARNING ACROSS THE ENTIRE WIDTH OF PATH WHEN THE PATH CROSSES A ROAD.
SEE STANDARD PLATE 7038 AND SHEET 4 OF 5 FOR ADDITIONAL DETAILS ON DETECTABLE WARNING.
① 0" CURB HEIGHT.
② FULL CURB HEIGHT.
③ DETECTABLE WARNING MAY BE PART OF 4' X 4' LANDING AREA IF IT IS NOT FEASIBLE TO CONSTRUCT THE LANDING OUTSIDE OF THE DETECTABLE WARNING AREA.
④ 1/2" PREFORMED JOINT FILLER MATERIAL ASHOTO IN 21A. JOINT FILLER SHALL BE PLACED FLUSH WITH THE BACK OF CURB AND ADJACENT SIDEWALK. JOINT SHALL BE FREE OF DEBRIS.
⑤ RECTANGULAR DETECTABLE WARNING SHALL BE SETBACK 3" FROM THE BACK OF CURB.
⑥ RADIAL DETECTABLE WARNING SHALL BE SETBACK 3" MINIMUM TO 6" MAXIMUM FROM THE BACK OF CURB.
⑦ SEE PEDESTRIAN ACCESS ROUTE CURB AND GUTTER DETAIL FOR INFORMATION ON CONSTRUCTING CURB AND GUTTER AT CURB OPENINGS. SEE SHEET NO. 3 OF 5.
⑧ 4' BY 4' MIN. LANDING WITH MAX. 2.0% SLOPE IN ALL DIRECTIONS.
⑨ IF LONGITUDINAL SLOPE IS GREATER THAN 5.0%, 4' X 4' MIN. LANDING WITH MAX. 2.0% SLOPE IN ALL DIRECTIONS REQUIRED.
⑩ V CURB, IF USED, SHALL BE PLACED OUTSIDE THE SIDEWALK LIMITS WHEN RIGHT OF WAY ALLOWED. SEE SHEET 5 OF 5.
⑪ SEE SHEET 4 OF 5, TYPICAL SDC TREATMENT OPTIONS, FOR DETAILS ON FLARES AND RETURNED CURBS.
⑫ DIAGONAL RAMP SHOULD ONLY BE USED AFTER ALL OTHER CURB RAMP TYPES HAVE BEEN EVALUATED AND DEEMED IMPRACTICAL.

LEGEND

THESE LONGITUDINAL SLOPE RANGES SHALL BE THE STARTING POINT. IF THE CONDITIONS WARRANT, LONGITUDINAL SLOPES UP TO 8.3% OR FLATTER ARE ALLOWED.
① INDICATES PEDESTRIAN RAMP - SLOPE SHALL BE BETWEEN 5.0% MINIMUM AND 8.3% MAXIMUM IN THE DIRECTION SHOWN AND THE CROSS SLOPE SHALL NOT EXCEED 2.0%.
② INDICATES PEDESTRIAN RAMP - SLOPE SHALL BE GREATER THAN 2.0% AND LESS THAN 5.0% IN THE DIRECTION SHOWN AND CROSS SLOPE SHALL NOT EXCEED 2.0%.

REVISION:

PEDESTRIAN CURB RAMP DETAILS



APPROVED: 8-6-2014

STATE DESIGN ENGINEER

STANDARD PLAN 5-297.250

1 OF 5

ANOKA COUNTY CITY OF ANOKA

TRAFFIC SIGNAL SYSTEM PEDESTRIAN CURB RAMP DETAILS CSAH 7 (2) AVE NORTH AT GRANT STREET (CSAH 30)

FILE NO. 10 ANOKA 132413 29

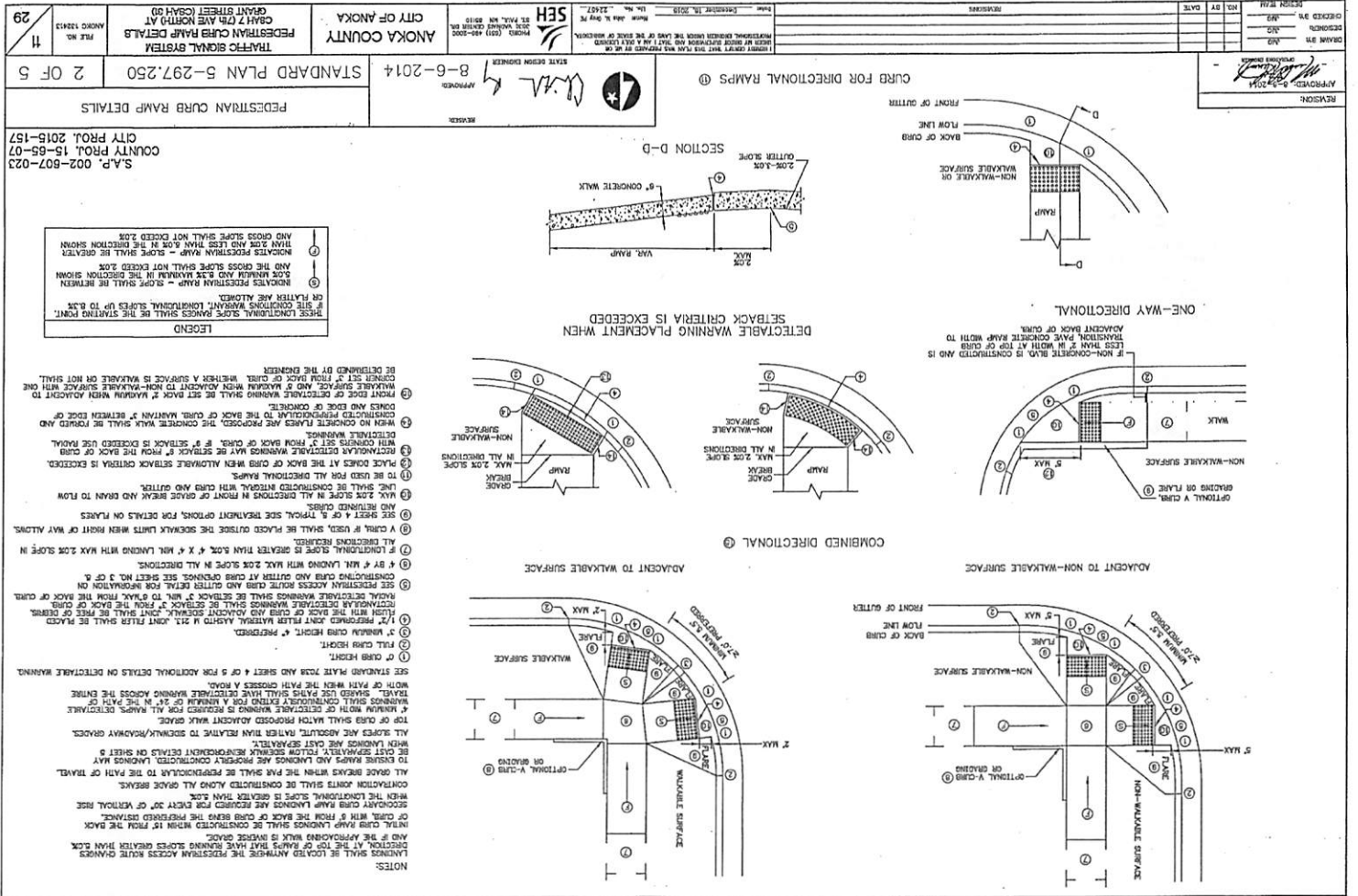
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APPROVED: 8-6-2014
DESIGNED: [Signature]
CHECKED BY: [Signature]

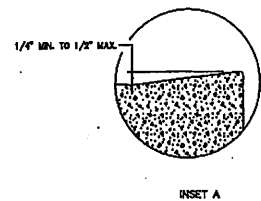
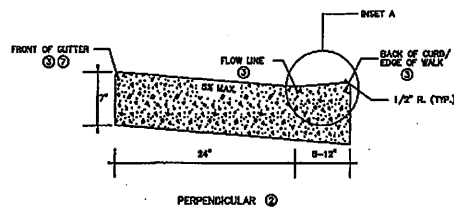
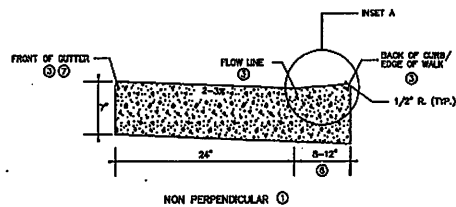
NO.	BY	DATE	REVISIONS
1	AN	8-6-2014	DESIGNED
2	AN	8-6-2014	CHECKED

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY CLOSE SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
Date: December 10, 2014
Name: John R. Day PE
Lic. No.: 22452

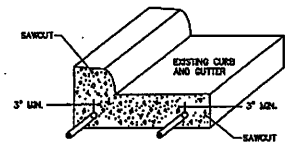
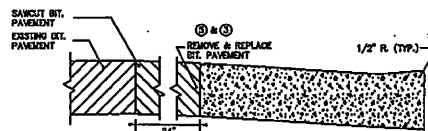
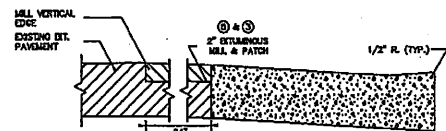
SEH

PROJECT: 2013 800-0000 2533 VILLAGE CENTER DR ST. PAUL, MN 55110

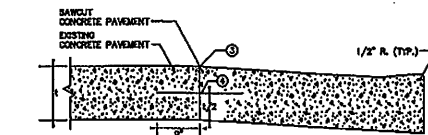
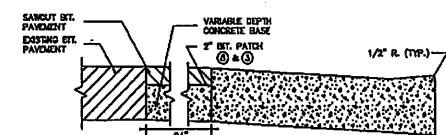




PEDESTRIAN ACCESS ROUTE
CURB & GUTTER DETAIL



FOR USE ON CURB RAMP RETROFITS



PAVEMENT TREATMENT OPTIONS
IN FRONT OF CURB & GUTTER
FOR USE ON CURB RAMP RETROFITS

- NOTES:
- POSITIVE FLOW LINE DRAINAGE SHALL BE MAINTAINED THROUGH THE PEDESTRIAN ACCESS ROUTE (PAR) AT A 2% MINIMUM.
 - NO PAVING SHALL BE PRESENT IN THE PAR.
 - ANY VERTICAL LIP THAT OCCURS AT THE FLOW LINE SHALL NOT BE GREATER THAN 1/4 INCH.
 - FOR USE AT CURB CUTS WHERE THE PEDESTRIAN'S PATH OF TRAVEL IS ASSUMED NON PERPENDICULAR TO THE CUTTER FLOW LINE. RAMP TYPES INCLUDE: FANS, DEPRESSIONS, CORNERS, & ONE WAY AND CORNER DECELERATORS.
 - FOR USE AT CURB CUTS WHERE THE PEDESTRIAN'S PATH OF TRAVEL IS ASSUMED PERPENDICULAR TO THE CUTTER FLOW LINE. RAMP TYPES INCLUDE: PERPENDICULAR, TAPERED PERPENDICULAR, PARALLEL, AND DIAGONAL RAMP.
 - THERE SHALL BE NO VERTICAL DISCONTINUITIES GREATER THAN 1/4 INCH.
 - DRILL AND GROUT NO. 4 EPOXY-COATED 18" LONG REBAR AT 30" CENTER TO CENTER INTO EXISTING CONCRETE PAVEMENT.
 - ELEVATION CHANGE TAKES PLACE FROM THE EXISTING TO NEW FRONT OF GUTTER. PATCH IS USED TO MATCH THE NEW GUTTER FACE INTO THE EXISTING ROADWAY.
 - VARIABLE WIDTH FOR DIRECTIONAL CURB APPLICATIONS.
 - TOP FRONT OF GUTTER SHALL BE CONSTRUCTED FLUSH WITH PROPOSED ADJACENT PAVEMENT ELEVATION. PAR GUTTER SHALL NOT BE OVERLAP.
 - WHERE PLAN SPECIFIES, DRILL AND GROUT 2 - NO. 4 X 18" LONG REINFORCEMENT BARS (EPOXY COATED).

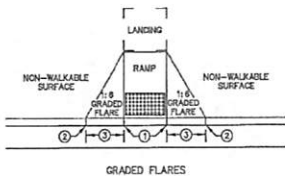
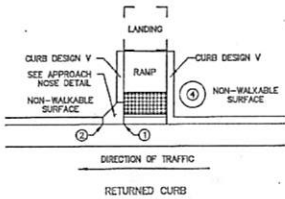
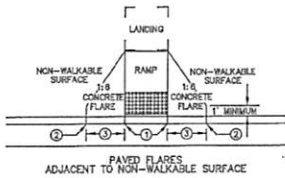
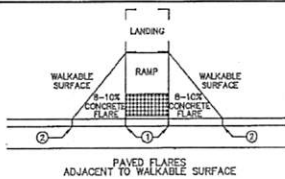
S.A.P. 002-807-023
COUNTY PROJ. 15-85-07
CITY PROJ. 2015-157

REVISION:
APPROVED: 8-6-2014
DESIGNED BY: [Signature]
CHECKED BY: [Signature]

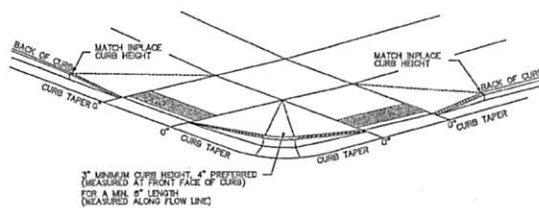
DESIGNED BY: [Signature]
CHECKED BY: [Signature]
DATE: 8-6-2014
STATE DESIGN ENGINEER

PEDESTRIAN CURB RAMP DETAILS
STANDARD PLAN 5-297.250
3 OF 5

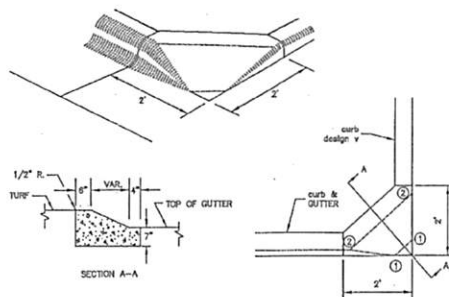
DRAWN BY: [Signature]	DESIGNED BY: [Signature]	CHECKED BY: [Signature]	DATE: 8-6-2014	STATE DESIGN ENGINEER	ANOKA COUNTY CITY OF ANOKA	TRAFFIC SIGNAL SYSTEM PEDESTRIAN CURB RAMP DETAILS CROSS 7TH AVE NORTH AT GRANT STREET (CSAH 55)	FILE NO. ANOKA 132413	12 29
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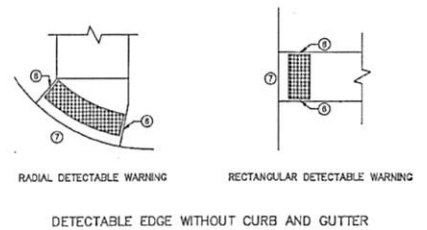
TYPICAL SIDE TREATMENT OPTIONS ②



DETECTABLE EDGE WITH CURB AND GUTTER ③



APPROACH NOSE DETAIL FOR DOWNSTREAM SIDE OF TRAFFIC



NOTES:

- SEE STANDARD PLATE 7033 AND THIS SHEET FOR ADDITIONAL DETAILS ON DETECTABLE WARNINGS.
- WHETHER A SURFACE IS WALKABLE OR NOT SHALL BE DETERMINED BY THE ENGINEER.
- CONCRETE FLARE LENGTHS ADJACENT TO NON-WALKABLE SURFACES SHOULD BE LESS THAN 8' LONG MEASURED ALONG THE RAMP FROM THE BACK OF CURB.
- 1' CURB HEIGHT.
- 2' FULL CURB HEIGHT.
- 3' - 3" FLARE.
- 4' BARRICADE OBJECT OR OBSTRUCTION.
- 5' SEE TREATMENTS ARE APPLICABLE TO ALL RAMP TYPES AND SHOULD BE IMPLEMENTED AS REQUIRED ON ALL RAMP TYPES AS FIELD CONDITIONS DICTATE. THE ENGINEER SHALL DETERMINE THE RAMP SIDE TREATMENTS BASED ON MAINTENANCE OF BOTH ROADWAY AND SIDEWALK, ADJACENT PROPERTY CONSIDERATIONS, AND MITIGATING OBSTRUCTION IMPACTS.
- 6' WHEN NO CONCRETE FLARES ARE PROPOSED, THE CONCRETE WALK SHALL BE FORMED AND CONSTRUCTED PERPENDICULAR TO THE EDGE OF ROADWAY. MAINTAIN 3" BETWEEN EDGE OF DOWNS AND EDGE OF CONCRETE.
- 7' IF NO CURB AND GUTTER IS PLACED IN RURAL SECTIONS, DETECTABLE WARNINGS SHALL BE PLACED 1' FROM THE EDGE OF ROADWAY TO PROVIDE VISUAL CONTRAST.
- 8' ALL CONSTRUCTED CURBS MUST HAVE A CONTINUOUS DETECTABLE EDGE FOR THE VISUALLY IMPAIRED. THIS DETECTABLE EDGE REQUIRES DETECTABLE WARNINGS WHEREVER THERE IS ZERO-INCH HIGH CURB. CURB TAPERINGS ARE CONSIDERED A DETECTABLE EDGE WHEN THE TAPER STARTS WITHIN 3' OF THE EDGE OF THE DETECTABLE WARNINGS AND UNIFORMLY RISES TO A 3-INCH MINIMUM CURB HEIGHT. ANY CURB NOT PART OF A CURB TAPER AND LESS THAN 3 INCHES IN HEIGHT IS NOT CONSIDERED A DETECTABLE EDGE AND THEREFORE IS NOT COMPLIANT WITH ACCESSIBILITY STANDARDS.

S.A.P. 002-607-023
COUNTY PROJ. 15-65-07
CITY PROJ. 2015-157

REVISIONS:
APPROVAL: 8-6-2014
Mark R. Rupp
SEAL

DRAWN BY:	JMS
DESIGNED BY:	JMS
CHECKED BY:	JMS
DESIGN TEAM:	

NO.	BY	DATE	REVISIONS
1	JMS	8-6-2014	1.0

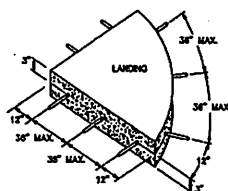
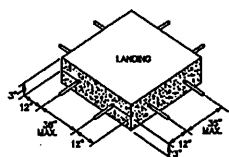
I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A QUALIFIED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF ILLINOIS.	
Date:	December 15, 2015
City:	Anoka
State:	Ill. No. 22457

RECEIVED:
APPROVED: 8-6-2014
Mark R. Rupp
SEAL

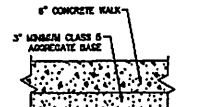
PHONE: (201) 410-0200
3035 ANDRASE CENTER DR.
ST. PAUL, MN 55110

ANOKA COUNTY
CITY OF ANOKA

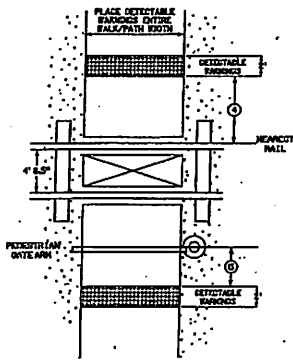
PEDESTRIAN CURB RAMP DETAILS	
STANDARD PLAN 5-297.250	4 OF 5
TRAFFIC SIGNAL SYSTEM	
PEDESTRIAN CURB RAMP DETAILS	
CSAH 7.07A AVE NORTH AT	
GRANT STREET (CSAH 39)	
FILE NO.	13
ANOKA 132413	29



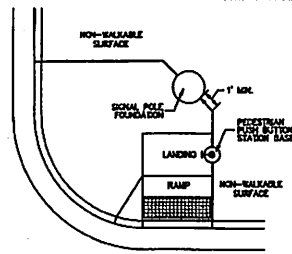
SIDEWALK REINFORCEMENT ② ②



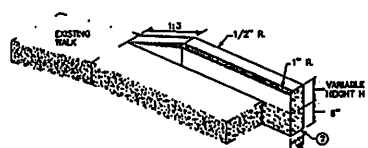
TYPICAL SIDEWALK SECTION WITHIN INTERSECTION CORNER



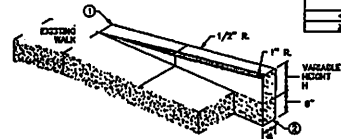
RAILROAD CROSSING PLAN VIEW



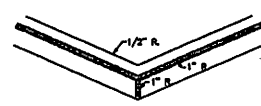
CONCRETE WALK EDGES ADJACENT TO CONCRETE STRUCTURES



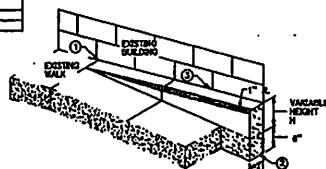
V CURB ADJACENT TO LANDSCAPE CURB WITH SIDEWALK LIMITS



V CURB ADJACENT TO LANDSCAPE CURB OUTSIDE SIDEWALK LIMITS



V CURB INTERSECTION



V CURB ADJACENT TO BUILDING OR BARRIER

CONCRETE CURB DESIGN V	
CURB HEIGHT H	CURB WIDTH W
4\"	4\"
6\"	6\"

- NOTES:
- ALL V CURB CONTRACTION JOINTS SHALL MATCH CONCRETE WALK JOINTS.
 - WHERE RIGHT-OF-WAY ALLOWS, USE OF V CURB SHOULD BE MINIMIZED. GRADING ADJACENT TURN OR CLOSING ADJACENT PAVEMENT IS PREFERRED.
 - V CURB SHALL BE PLACED OUTSIDE THE SIDEWALK LIMITS WHEN RIGHT OF WAY ALLOWS. V CURB NEXT TO BUILDING SHALL BE A 4\"
 - TOP OF SIDEWALK ELEVATIONS.
 - ① DOW TAPERS AT TRANSITION SECTION SHALL MATCH INPLACE SIDEWALK GRADES.
 - ② ALL V CURB SHALL MATCH BOTTOM OF ADJACENT WALK.
 - ③ EDGE BETWEEN NEW V CURB AND INPLACE STRUCTURE SHALL BE SEALED AND JOINT BREAKER SHALL BE USED BETWEEN EXISTING STRUCTURE AND PLACED V-CURB.
 - ④ NEAREST EDGE OF DETECTABLE WARNING SURFACES SHALL BE PLACED 12\"
 - ⑤ WHEN PEDESTRIAN GATES ARE PROVIDED, DETECTABLE WARNING SURFACES SHALL BE PLACED ON THE EDGE OF THE GATES OPPOSITE THE RAIL, 2\"
 - ⑥ WHEN PLAN SPECIFICS, DOWEL AND GROUT NO. 4 12\"
 - ⑦ TO DETAIL RAMP AND LANDINGS ARE PROPERLY CONSTRUCTED, LANDINGS MAY BE CAST SEPARATELY. FOLLOW SIDEWALK REINFORCEMENT DETAILS ON DIS SHEET WHEN LANDINGS ARE CAST SEPARATELY.

S.A.P. 002-807-023
COUNTY PROJ. 15-85-07
CITY PROJ. 2015-157

REVISION	
APPROVED 2-9-2015	DESIGN ENGINEER

DRAWN BY	DESIGNED BY	CHECKED BY	DATE
...	...	...	...

NO. BY	DATE	REVISIONS
...	...	...

I HEREBY CERTIFY THAT THIS PLAN AND SPECIFICATIONS WERE PREPARED BY ME OR UNDER MY CLOSE PERSONAL SUPERVISION AND THAT I AM A duly LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF ILLINOIS.

DATE: 02-09-2015 CH. No. 22872

SEAL DESIGN ENGINEER
APPROVED 2-9-2015

PEDESTRIAN CURB RAMP DETAILS	
STANDARD PLAN 5-297.250	5 OF 5
ANOKA COUNTY CITY OF ANOKA	TRAFFIC SIGNAL SYSTEM PEDESTRIAN CURB RAMP DETAILS CRASH 7 07th AVE NORTH AT CRASH STREET (CRASH 30)
FILE NO. ANOKA 52413	14 29

STRIPING NOTES & GUIDELINES

GENERAL INFORMATION:

THE ENGINEER'S INVOLVEMENT IN THE APPLICATION OF THE MATERIAL SHALL BE LIMITED TO FIELD OBSERVATION AND INSPECTION. THE CONTRACTOR WILL PLACE NECESSARY "SPOTTING" AT APPROPRIATE POINTS TO PROVIDE HORIZONTAL CONTROL FOR STRIPING AND TO DETERMINE NECESSARY STARTING AND CUTOFF POINTS. LONGITUDINAL JOINTS, PAVEMENT CODES AND EXISTING MARKINGS MAY SERVE AS HORIZONTAL CONTROL, WHEN SO DIRECTED.

EDGE LINES AND LANE LINES ARE TO BE BROKEN ONLY AT INTERSECTIONS WITH PUBLIC ROADS AND AT PRIVATE ENTRANCES IF THEY ARE CONTROLLED BY A YIELD SIGN, STOP SIGN OR TRAFFIC SIGNAL. THE BREAK POINT IS TO BE AT THE START OF THE RADIUS FOR THE INTERSECTION OR AT MARKED STOP LINES OR CROSSWALKS.

A TOLERANCE OF 1/4 INCH UNDER OR 1/4 INCH OVER THE SPECIFIED WIDTH WILL BE ALLOWED FOR STRIPING PROVIDED THE VARIATION IS GRADUAL AND DOES NOT DETRACT FROM THE GENERAL APPEARANCE. BROKEN LINE SEGMENTS MAY VARY UP TO ONE-HALF FOOT FROM THE SPECIFIED LENGTH PROVIDED THE OVER AND UNDER VARIATIONS ARE REASONABLY COMPENSATORY. ALIGNMENT DEVIATIONS FROM THE CONTROL GUIDE SHALL NOT EXCEED 1 INCH. MATERIAL SHALL NOT BE APPLIED OVER LONGITUDINAL JOINTS. ESTABLISHMENT OF APPLICATION TOLERANCES SHALL NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY TO COMPLY AS CLOSELY AS PRACTICABLE WITH THE PLANNED DIMENSIONS.

EPOXY:

THE ROAD SURFACE SHALL BE CLEANED AT THE DISCRETION OF THE ENGINEER JUST PRIOR TO APPLICATION. PAVEMENT CLEANING SHALL CONSIST OF AT LEAST BRUSHING WITH A ROTARY BRUSH (NON-METALLIC) OR AS RECOMMENDED BY THE MATERIAL MANUFACTURER AND ACCEPTABLE TO THE ENGINEER. NEW PORTLAND CEMENT CONCRETE SURFACES SHALL BE SANDBLAST CLEANED TO REMOVE ANY SURFACE TREATMENTS AND/OR LANTANCE. ON LOW SPEED (SPEED LIMIT 35 OR LESS) URBAN PORTLAND CEMENT CONCRETE ROADWAYS, SANDBLAST CLEANING SHALL BE USED FOR ALL PAVEMENT MARKINGS.

THE EPOXY MARKING APPLICATION SHALL IMMEDIATELY FOLLOW THE PAVEMENT CLEANING. GLASS BEADS SHALL BE APPLIED IMMEDIATELY AFTER APPLICATION OF THE EPOXY RESIN LANE TO PROVIDE AN IMMEDIATE NO-TRACK SYSTEM.

FOR 15 LB APPLICATIONS, GLASS BEADS SHALL BE APPLIED AT A RATE OF AT LEAST 25 LB/GAL. THE "NO-TRACKING" CONDITION SHALL BE DETERMINED ON AN APPLICATION OF SPECIFIED THICKNESS TO THE PAVEMENT AND COVERED WITH GLASS BEADS AT THE RATE OF AT LEAST 25 LB/GAL.

OPERATIONS SHALL BE CONDUCTED ONLY WHEN THE ROADWAY PAVEMENT SURFACE TEMPERATURES ARE 50 DEGREES F OR GREATER.

PREFORM THERMOPLASTIC APPLICATION:

MAT TEMPERATURE SHALL BE CHECKED USING A THERMOMETER TO MAKE SURE THE MELT IS BEING DONE IN THE PROPER TEMPERATURE RANGE. THE TEMPERATURE SHOULD MEASURE BETWEEN 150 DEGREES F (ASPHALT FIRM ENOUGH TO WALK ON) AND 180 DEGREES F. APPLICATION BELOW 150 DEGREES F MAY NOT GET A PROPER MELT. MELTS ARE NOT RECOMMENDED AFTER SEPTEMBER 15 AS THE ASPHALT COOLS TOO FAST AT THE TIME OF YEAR.

NO PRIMER IS USED FOR MELT APPLICATION. DO NOT INSTALL LANE LINES ON AN ASPHALT SEAM. ROLLING OF ALL THE MARKINGS SHOULD BE LENGTHWISE IN THE DIRECTION THEY WERE LAD. FOR CROSSWALKS AND STOP BARS, INITIAL TAMPING WITH THE TAMPING CART IS RECOMMENDED USING ONLY 100 LBS OF WEIGHT.

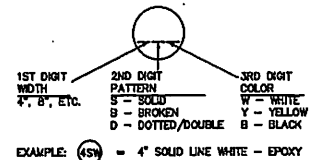
USE COMPACTION ROLLER TO CHASE (MELT) MARKINGS INTO PAVEMENT SURFACE. USE MEDIUM SPEED AND WATER ON ROLLER. DO NOT USE VIBRATOR IF MARKING BUCKLES OR DISTORTS SEVERELY IN FRONT OF ROLLER. MAT TEMPERATURE ON ROLLER SPEED MAY BE TOO HIGH.

SYMBOLS & MATERIALS LEGEND

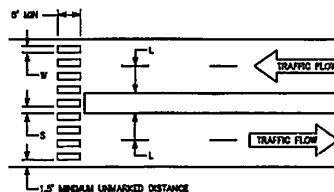
- ZEBRA CROSSWALK (WHITE) - 6' x 3' BLOCKS
- ↩ PAVEMENT MESSAGE (RIGHT ARROW)-PREFORM THERMOPLASTIC
- 24 INCH SOLID WHITE STOP BAR-EPOXY

STRIPING KEY

- CIRCLE - EPOXY
- SQUARE - PREFORM THERMOPLASTIC
- △ TRIANGLE - PAINT
- ⬠ PENTAGON - REMOVEABLE PREFORMED PLASTIC MARKING



CROSSWALK PAVEMENT MARKING DETAIL



WIDTH OF BASE LANE (L)	WIDTH OF MARKED AREA (V)	WIDTH OF SPACE (S)
6'	3'	3'
10'	3'	3'
11'	3'	3'
12'	3'	3'
13'	3'	3'

- NOTES:
- CROSSWALK AREAS TO BE CENTERED/ALIGNED ON CENTER LINE AND LANE LINES.
 - A MINIMUM OF 1.5' CLEAR DISTANCE MUST BE LEFT ADJACENT TO CURB. IF LAST MARKED AREA FALLS INTO THIS DISTANCE, IT MUST BE OMITTED.

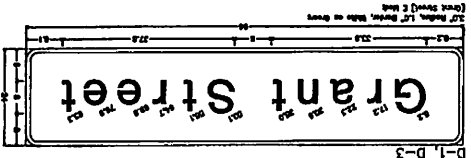
PAVEMENT MARKING TABULATION

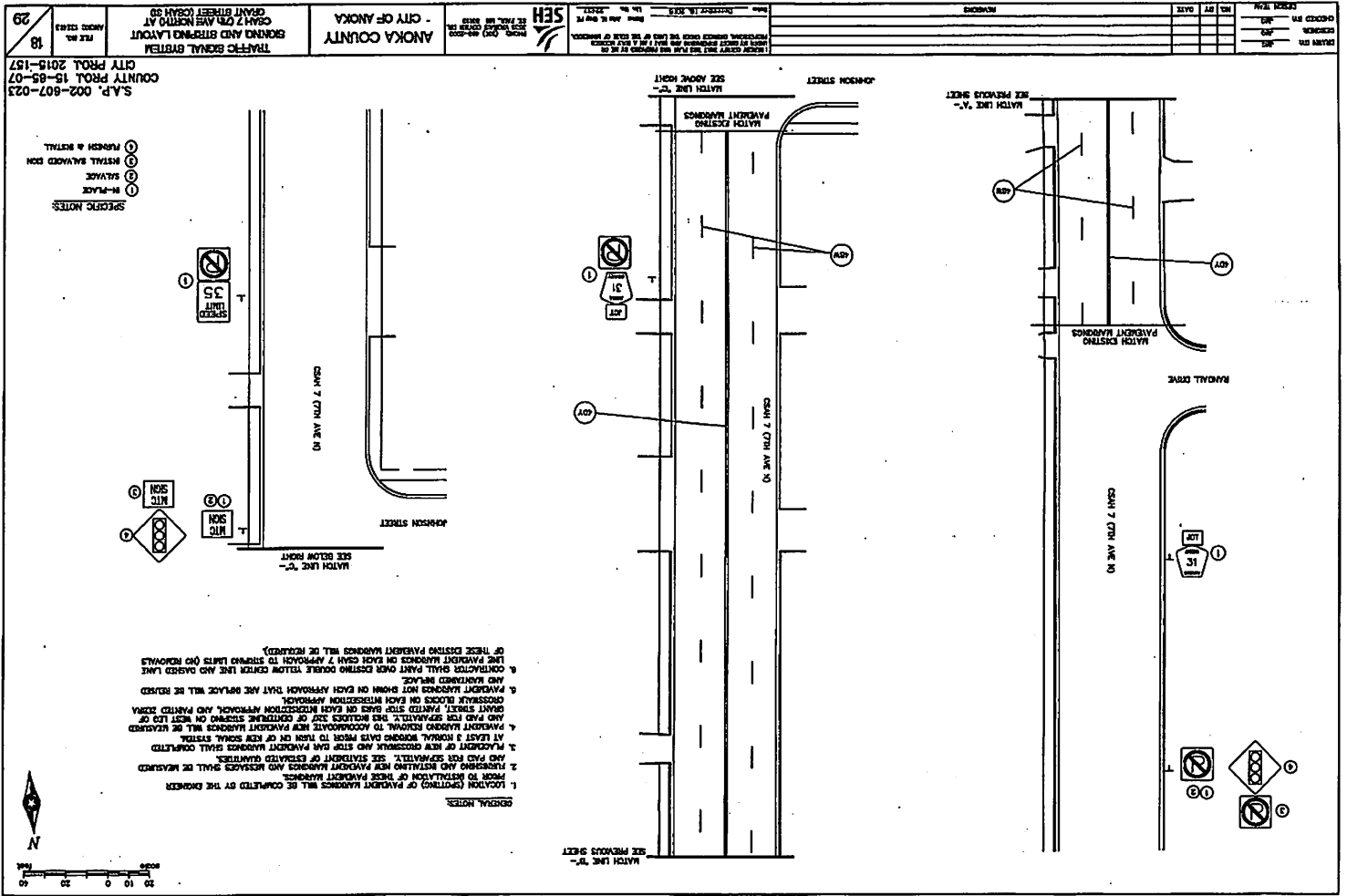
ITEM	UNIT	TOTAL ESTIMATED QUANTITY
PAVEMENT MARKING REMOVAL (LANE LINE, STOP BARS)	LN. FT.	420
PAVEMENT MARKING REMOVAL (ZEBRA CROSSWALK)	SQ. FT.	594
4 INCH SOLID LINE WHITE-EPOXY (LANE LINE)	LN. FT.	200
4 INCH BROKEN LINE WHITE-EPOXY (LANE LINE)	LN. FT.	300
24 INCH SOLID LINE WHITE-EPOXY (STOP BAR)	LN. FT.	100
4 INCH DOUBLE SOLID LINE YELLOW-EPOXY (CENTER LINE)	LN. FT.	1200
PAVEMENT MESSAGE (RT ARROW) PREFORM THERMOPLASTIC	EACH	2
CROSSWALK PREFORM THERMOPLASTIC	SQ. FT.	594

NOTE: EACH TURN ARROW IS ASSIGNED TO BE 15 SQUARE FEET FOR QUOTING PURPOSES.

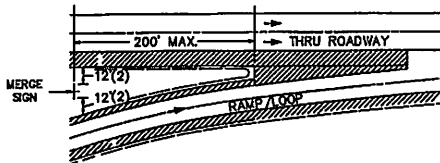
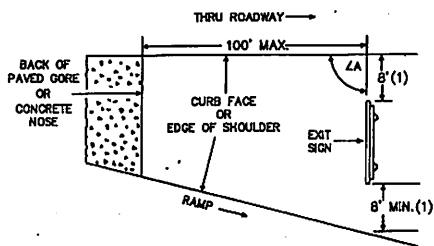
S.A.P. 002-807-023
COUNTY PROJ. 15-65-07
CITY PROJ. 2015-157

DESIGN BY: JES	CHECKED BY: JES	DATE: 12/15/2015	PROJECT NAME: STRIPING NOTES AND TABULATIONS	1. I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY CLOSE SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF ILLINOIS.	2. I, ENGINEER, JOHN B. BAY, PE, LICENSE NO. 000-000000, DESIGN NO. 000-000000, DATE 12/15/2015.	SEH	ANOKA COUNTY CITY OF ANOKA	TRAFFIC SIGNAL SYSTEM STRIPING NOTES AND TABULATIONS CSAH 70TH AVE NORTH AT GRANT STREET (CSAH 30)	FILE NO. ANOKA 123456	15 29
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GORE PLACEMENT



SPECIFIC NOTES:

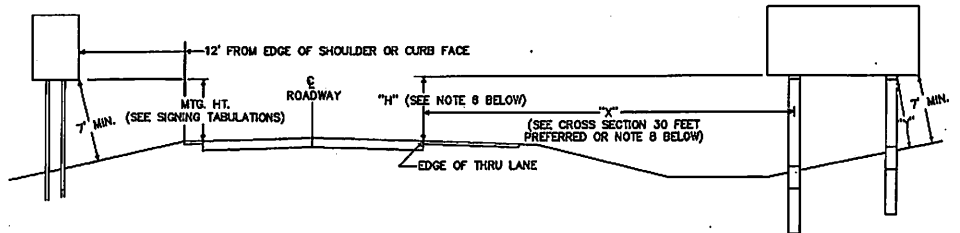
(1) EXIT SIGNS

IF THESE OFFSETS CANNOT BE ATTAINED WITHIN 100 FEET OF THE PAVED GORE, A 4 FOOT OFFSET IS ACCEPTABLE. IF THE 4 FOOT OFFSETS CANNOT BE ATTAINED WITHIN 100 FEET OF THE PAVED GORE, CONTACT THE PROJECT ENGINEER.

(2) MERGE SIGNS

IF THESE OFFSETS CANNOT BE ATTAINED WITHIN 200 FEET OF THE PAVED GORE, A 4 FOOT OFFSET IS ACCEPTABLE. IF THE 4 FOOT OFFSETS CANNOT BE ATTAINED WITHIN 200 FEET OF THE PAVED GORE, CONTACT THE PROJECT ENGINEER.

ROADSIDE PLACEMENT



ROUTE MARKER, REGULATORY & WARNING SIGNS - TYPE C
GUIDE SIGNS - TYPE D

GUIDE SIGN - TYPE A

NOTES:

- ALL TYPE C AND D MOUNTING HEIGHTS ARE MEASURED VERTICALLY FROM THE BOTTOM OF THE SIGN TO THE ELEVATION OF THE NEAR EDGE OF PAVEMENT IN RURAL AREAS OR TO THE TOP OF THE CURB OR IN THE ABSENCE OF CURB, TO THE NEAR EDGE OF THE TRAVELED WAY.
- SIGN FACES SHALL BE VERTICAL.
- OVERHEAD SIGNS SHALL BE POSITIONED AT RIGHT ANGLES TO THE THRU ROADWAY UNLESS OTHERWISE NOTED.
- TO AVOID SPECULAR GLARE, $\angle A$ SHALL BE APPROXIMATELY 93° FOR SIGNS LOCATED LESS THAN 30' FROM THE EDGE OF THRU LANE AND APPROXIMATELY 92° FOR SIGNS LOCATED 30' OR MORE FROM EDGE OF THRU LANE. THIS APPLIES TO SIGNS TYPE A, C, & D AND INCLUDES SIGNS IN THE GORE.
- "Y" IS THE PERPENDICULAR DISTANCE FROM THE GROUND LINE TO THE FRICTION FUSE ON THE POST. THIS DISTANCE SHALL BE AT LEAST 7'.
- WHERE "X" IS LESS THAN 30', "H" SHALL BE 7'. WHERE "X" IS 30' OR GREATER, MINIMUM AND PREFERRED "H" IS 5'.
- LATERAL CLEARANCES GIVEN APPLY TO RIGHT AND OR LEFT SIDE INSTALLATION.
- WHEN A TYPE A SIGN IS INSTALLED DIRECTLY BEHIND TRAFFIC BARRIER, THE LEFT EDGE OF THE SIGN PANEL SHALL BE LOCATED A MINIMUM OF 8 FEET BEHIND THE FACE OF THE TRAFFIC BARRIER.

SIGN PLACEMENT

S.A.P. 002-607-023
COUNTY PROJ. 15-65-07
CITY PROJ. 2015-157

DESIGN BY: JWS	DATE: 12/15/2015	REVISIONS:	DATE: 12/15/2015	BY: JWS
CHECKED BY: JWS	DATE: 12/15/2015	REVISIONS:	DATE: 12/15/2015	BY: JWS
DESIGN TEAM:	NO. BY DATE	REVISIONS	DATE	BY

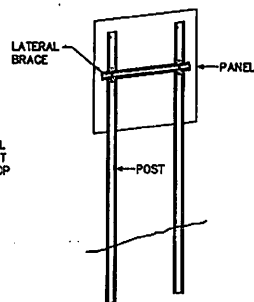
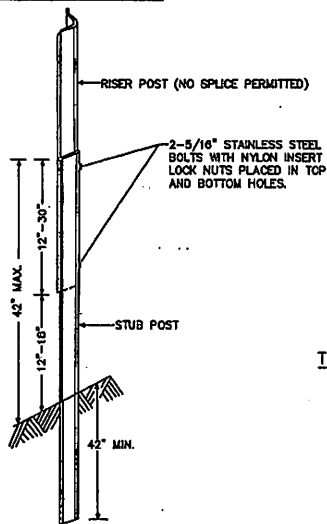


ANOKA COUNTY
CITY OF ANOKA

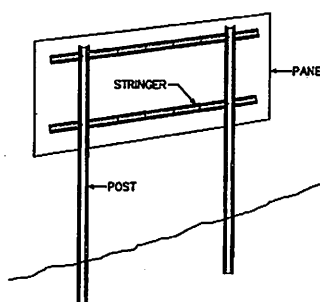
TRAFFIC SIGNAL SYSTEM
SIGN PLACEMENT DETAILS
CRASH 7 ON AVE NORTH AT
GRANT STREET (CRASH 50)

FILE NO. 19
ANOKA 132413
29

TYPE C & D POST



TYPICAL TYPE C INSTALLATION

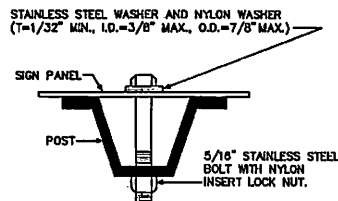


TYPICAL TYPE D INSTALLATION

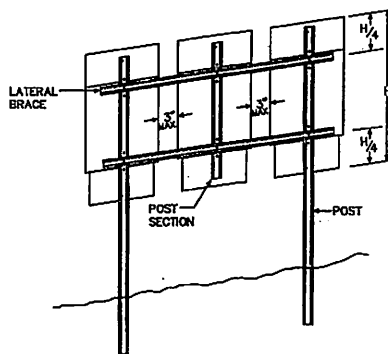
NOTES:

1. USE 3 LB/FT STUB POSTS. SHALL CONFORM TO MNDOT 3401.
2. USE 2.5 LB/FT RISER POSTS, STRINGERS, KNEE BRACES AND LATERAL BRACES. ALL SHALL CONFORM TO MNDOT 3401.
3. SEE SIGN DATA SHEETS FOR NUMBER OF POSTS, KNEE BRACES, POST LENGTHS AND SPACINGS, AS DETERMINED FROM TEM CHARTS 6.3 AND 6.4.
4. IF MORE THAN TWO POSTS ARE NEEDED, THE MINIMUM SPACING SHALL BE 45" BETWEEN POSTS.
5. TYPE D SIGN PANELS SHALL BE BOLTED TO STRINGERS AT 24" MAXIMUM INTERVALS IN ACCORDANCE WITH THE TYPE D STRINGER AND PANEL-JOINT DETAIL (SEE STANDARD SIGNS MANUAL).
6. MOUNTING (PUNCH CODE) FOR TYPE C SIGN PANELS SHALL BE AS INDICATED IN THE STANDARD SIGNS MANUAL UNLESS OTHERWISE SPECIFIED.
7. ALL RISER (VERTICAL) U POSTS SHALL BE SPLICED. DRIVEN STUB POSTS SHALL BE AT LEAST 7' LONG.
8. USE STAINLESS STEEL 5/16" BOLTS, WASHERS AND NYLON INSERT LOCK NUTS AS SHOWN FOR ALL GROUND MOUNTED AND OVERHEAD MOUNTED SIGNS.
9. STAINLESS STEEL WASHER WITH SAME DIMENSIONS SHALL BE PROVIDED BETWEEN ALL NYLON WASHERS AND BOLT HEADS.
10. BRACING STUBS SHALL BE NO MORE THAN 4" ABOVE GROUND AND EMBEDDED AT LEAST 42".
11. A-FRAME BRACKET SHALL BE STEEL CONFORMING TO MNDOT 3306 AND GALVANIZED IN ACCORDANCE WITH MNDOT 3394.
12. COLLARS SHALL BE USED TO SHIM OVERLAYS AND LEGEND COMPONENTS AWAY FROM PANEL WHERE INTERFERENCE WITH BOLT HEADS IS ENCOUNTERED. MNDOT 3352.2A6.
13. 2 POST TYPE C SIGNS SHALL BE REINFORCED WITH AT LEAST ONE LATERAL BRACE. INSTALLATIONS WHERE THE TOTAL PANEL HEIGHT IS 60" OR MORE SHALL HAVE TWO LATERAL BRACES LOCATED APPROXIMATELY AT THE QUARTER POINTS.
14. WHERE 2 SINGLE POST TYPE C SIGNS ARE INSTALLED SIDE BY SIDE, THEY SHALL BE REINFORCED LATERALLY BY AT LEAST 2 BRACES, BOLTED AT EACH POST AND LOCATED APPROXIMATELY AT THE QUARTER POINTS.
15. WHERE 3 OR MORE TYPE C SIGNS ARE INSTALLED SIDE BY SIDE, THEY SHALL BE REINFORCED LATERALLY BY AT LEAST 2 BRACES, BOLTED AT EACH POST AND POST SECTION AND LOCATED APPROXIMATELY AT THE QUARTER POINTS AS SHOWN IN MODIFIED TYPE C INSTALLATION.

U POST BREAKAWAY SPLICE



U POST MOUNTING
TYPE C SIGNS



MODIFIED TYPE C INSTALLATION

TYPE C & D SIGN STRUCTURAL DETAILS

REVISED: 3-7-2014

S.A.P. 002-807-023
COUNTY PROJ 15-85-07
CITY PROJ 2015-157

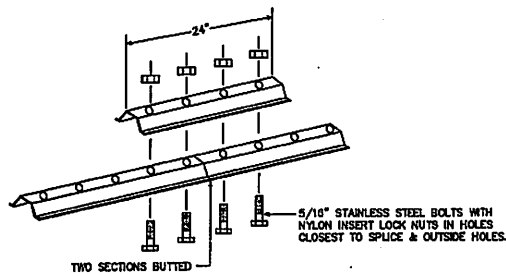
DESIGNED BY: JAC	DATE: 10/1/14	PROJECT: 15-85-07	FILE NO: 20
CHECKED BY: JAC	DATE: 10/1/14	PROJECT: 15-85-07	FILE NO: 29
APPROVED BY: JAC	DATE: 10/1/14	PROJECT: 15-85-07	FILE NO: 29
DESIGNED BY: JAC	DATE: 10/1/14	PROJECT: 15-85-07	FILE NO: 29
CHECKED BY: JAC	DATE: 10/1/14	PROJECT: 15-85-07	FILE NO: 29
APPROVED BY: JAC	DATE: 10/1/14	PROJECT: 15-85-07	FILE NO: 29

ANOKA COUNTY
CITY OF ANOKA

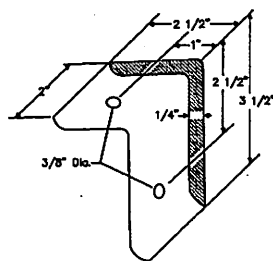
TRAFFIC SIGNAL SYSTEM
SIGN STRUCTURAL DETAILS
CSAH 7 ON AVE NORTH AT
GRANT STREET (CSAH 30)

ANOKA 12413

20
29

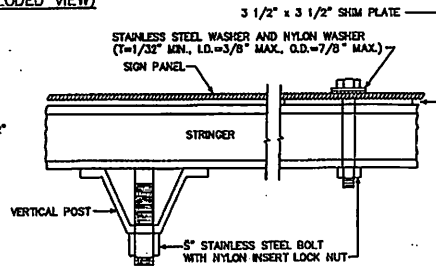


LATERAL BRACE OR STRINGER
SPlice DETAIL (EXPLODED VIEW)

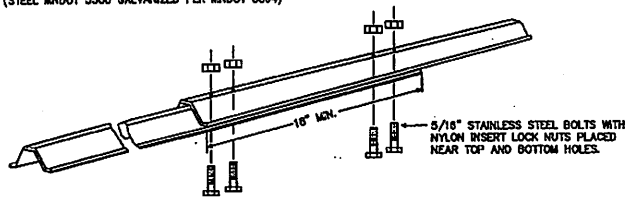


A-FRAME BRACKET

(STEEL MANDOT 3306 GALVANIZED PER MANDOT 3394)

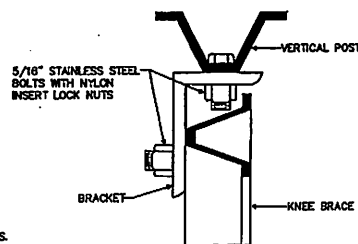


SECTION B-B

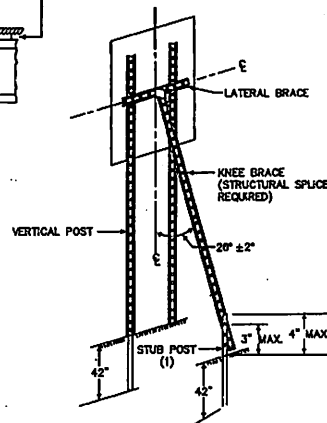


STRUCTURAL SPlice

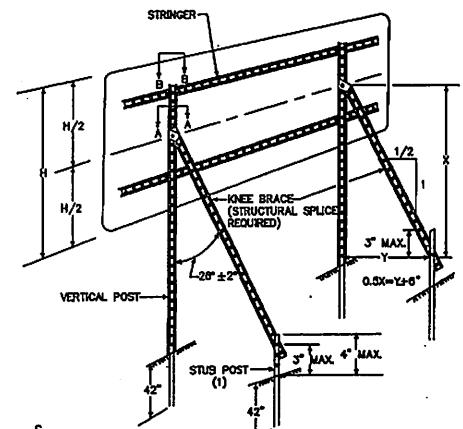
(USE WHEN IT IS NECESSARY TO FABRICATE THE CORRECT LENGTH OF POST FROM TWO PIECES)
REVISED: 12-4-2013



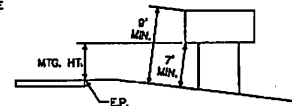
SECTION A-A



TYPICAL "A-FRAME" INSTALLATION
TYPE "C" SIGNS



TYPICAL "A-FRAME" INSTALLATION
TYPE "D" SIGNS



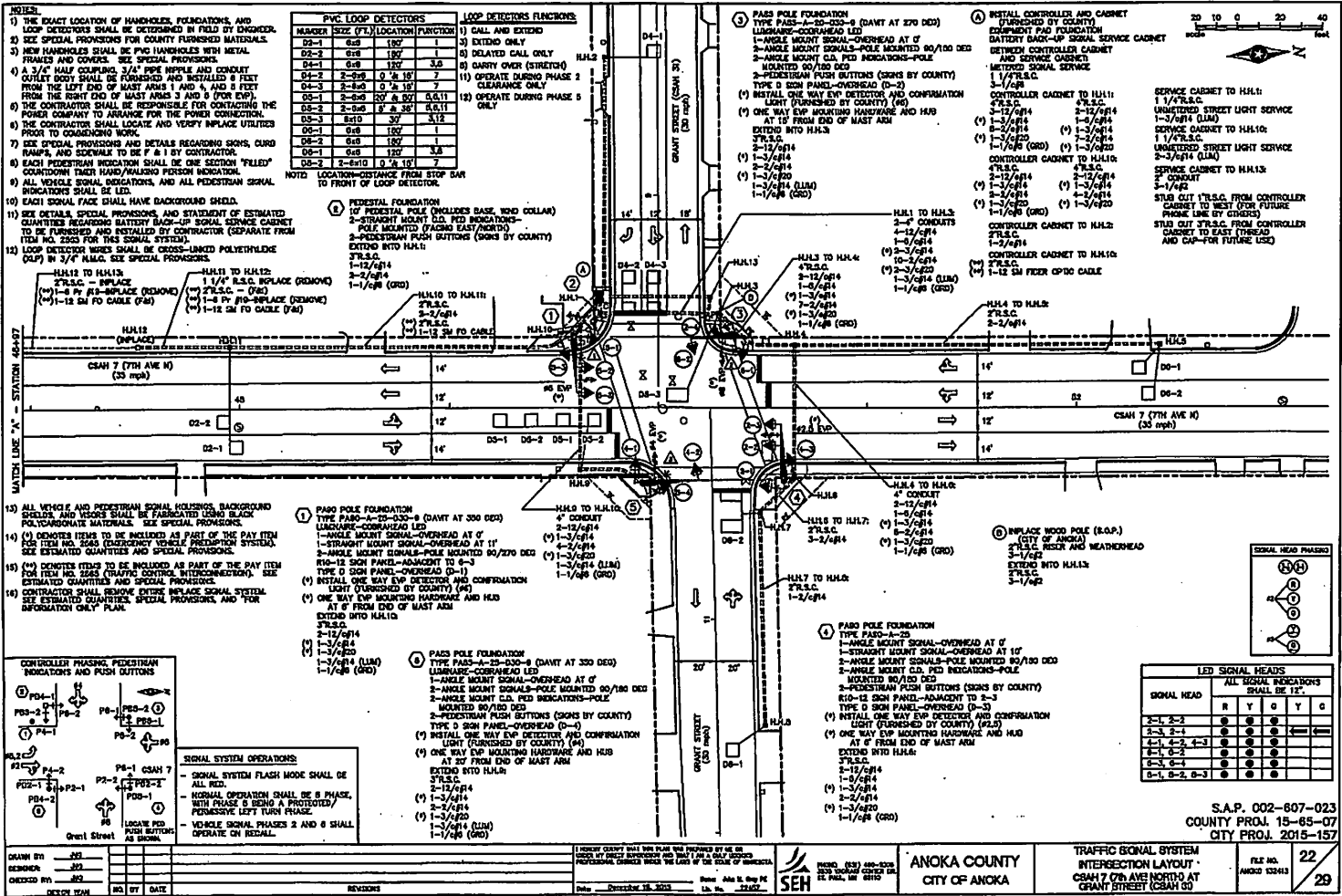
TYPICAL MOUNTING

(1) OFFSET STUB POST 1' TOWARD ROADWAY
RELATIVE TO VERTICAL POST. ATTACH STUB
POST AND KNEE BRACE BACK TO BACK.

TYPE C & D SIGN
STRUCTURAL DETAILS

DRAWN BY: JES DESIGNED BY: JES CHECKED BY: JES DESIGN TEAM:	NO. BY: DATE:	REVISIONS:	I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A duly LICENSED PROFESSIONAL ENGINEER, LICENSED UNDER THE LAWS OF THE STATE OF ILLINOIS. Date: December 18, 2013 State: Illinois License No.: 02422	ANOKA COUNTY CITY OF ANOKA	TRAFFIC SIGNAL SYSTEM SIGN STRUCTURAL DETAILS CS&H 7.0th AVE NORTH @ GRANT STREET (CS&H 20)	FILE NO.: 21 ANOKA 132413 29
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S.A.P. 002-807-023
COUNTY PROJ. 15-05-07
CITY PROJ. 2015-157



LED SIGNAL HEADS									
ALL SIGNAL INDICATORS SHALL BE 12"									
SIGNAL HEAD		R	Y	G	Y	G			
2-1	2-2	●	●	●	●	●			
2-1	2-1	●	●	●	●	●			
2-1	2-2	●	●	●	●	●			
2-1	2-2	●	●	●	●	●			
2-1	2-2	●	●	●	●	●			
2-1	2-2	●	●	●	●	●			
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2-1	2-2	●	●	●	●	●			

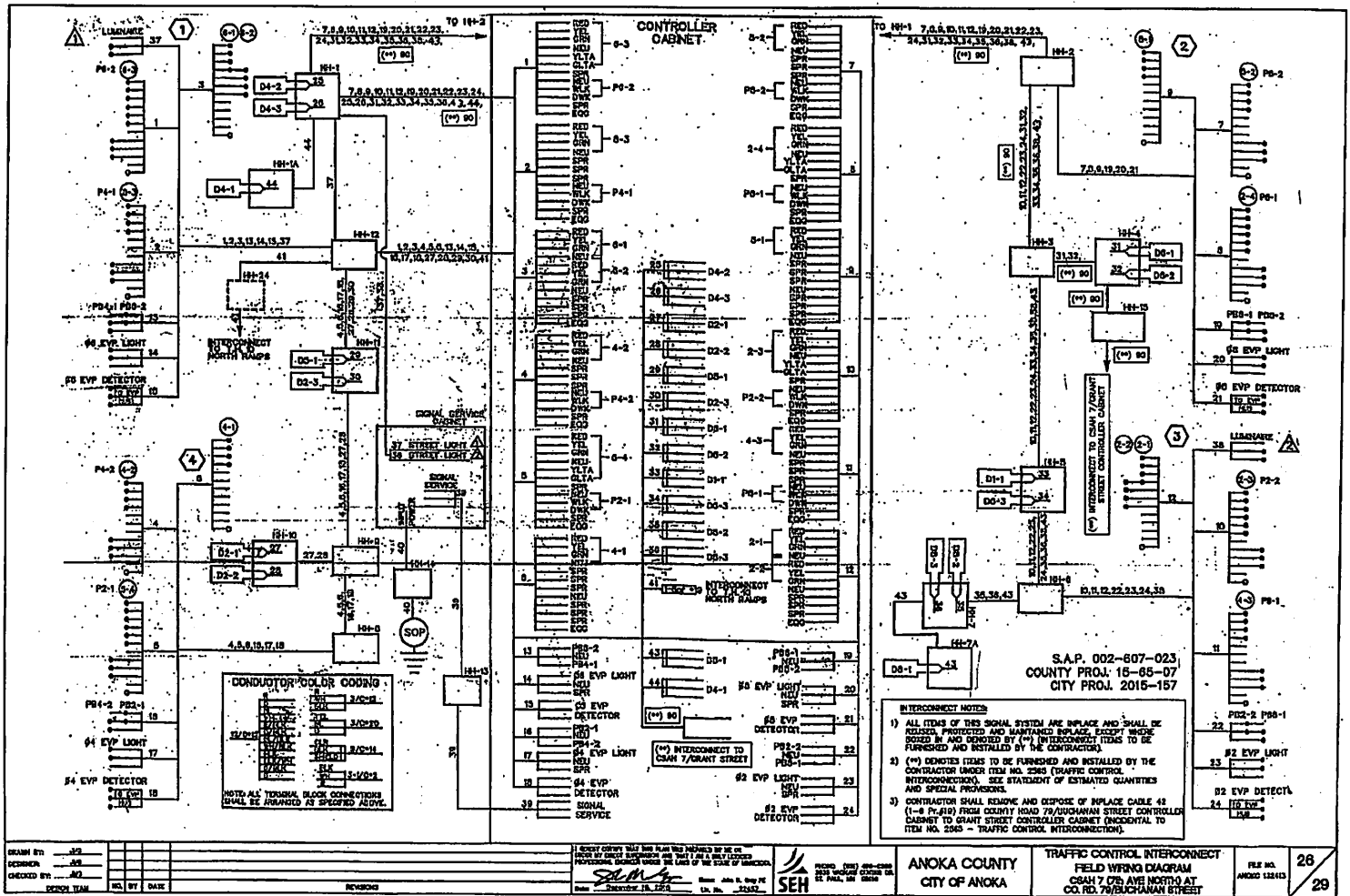
S.A.P. 002-607-023
COUNTY PROJ. 15-65-07
CITY PROJ. 2015-157

ANOKA COUNTY
CITY OF ANOKA

TRAFFIC SIGNAL SYSTEM
INTERSECTION LAYOUT
CSAH 7 (7th Ave N) NORTH
GRANT STREET (CSAH 50)

FILE NO.
ANOKA 133413

22
29



DETECTOR CHART					DISTANCE FROM STOP BAR
DESIGNATION	PHASE	SIZE IN FT.	FUNCTION		
D2-1	2	1-8 X 6	(1)		250'
D2-2	2	1-8 X 6	(1)		250'
D4-1	6	1-8 X 6	(1)		250'
D4-2	6	1-8 X 6	(1)		250'
D4-3	4	1-8 X 6	(2)		150'
D4-4	4	AS SHOWN	(3)		
D4-5	6	1-8 X 6	(2)		150'
D4-6	6	1-8 X 6	(2)		150'
D1-1	1	2-8 X 8	(2)		

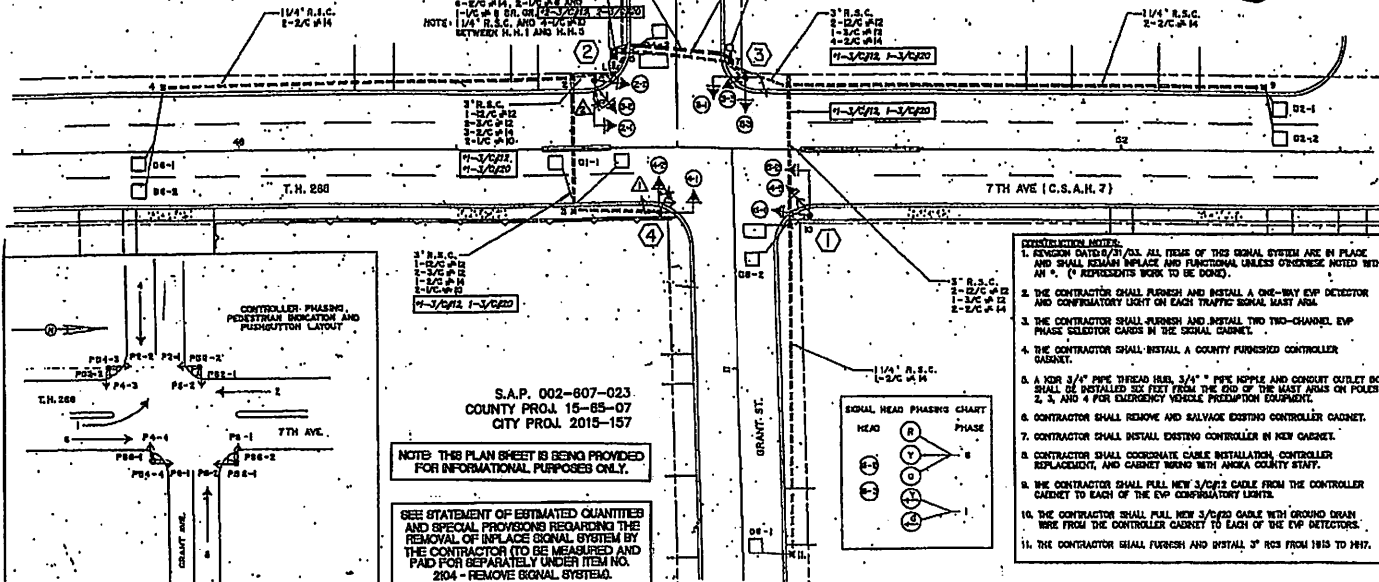
SIGNAL INDICATION CHART					TYPE AND SIZE INCHES
PHASE	PHASE	PHASE	PHASE	PHASE	
1	2	3	4	5	
6	7	8	9	10	
11	12	13	14	15	
16	17	18	19	20	
21	22	23	24	25	
26	27	28	29	30	
31	32	33	34	35	
36	37	38	39	40	
41	42	43	44	45	
46	47	48	49	50	
51	52	53	54	55	
56	57	58	59	60	

- (1) CALL AND EXTEND
(2) EXTEND ONLY
(3) CALL AFTER DELAY, DEMONSTRATE EXTEND
(4) LOOPS IN PVC

CONTROLLER AND GASKET
EXTEND INTO H.N. 1 (1" R.S.C.)
3"-2/C #12 3"-2/C #14 AND
3"-2/C #16 (1" R.S.C.)
EXTEND INTO H.N. 2 (1" R.S.C.)
3"-2/C #12 3"-2/C #14 AND
3"-2/C #16 (1" R.S.C.)
NOTE: 1/4" R.S.C. AND 1/2" R.S.C.
BETWEEN H.N. 1 AND H.N. 2

1. LIGHT MOVED TO 311 + 100 Pk 1
2. TYPE P20-A-15 ONE WAY SIGNAL (OVERHEAD)
3. TYPE P20-A-15 ONE WAY SIGNAL (OVERHEAD)
4. TYPE P20-A-15 ONE WAY SIGNAL (OVERHEAD)
5. TYPE P20-A-15 ONE WAY SIGNAL (OVERHEAD)
6. TYPE P20-A-15 ONE WAY SIGNAL (OVERHEAD)
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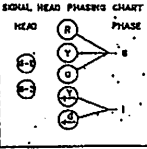
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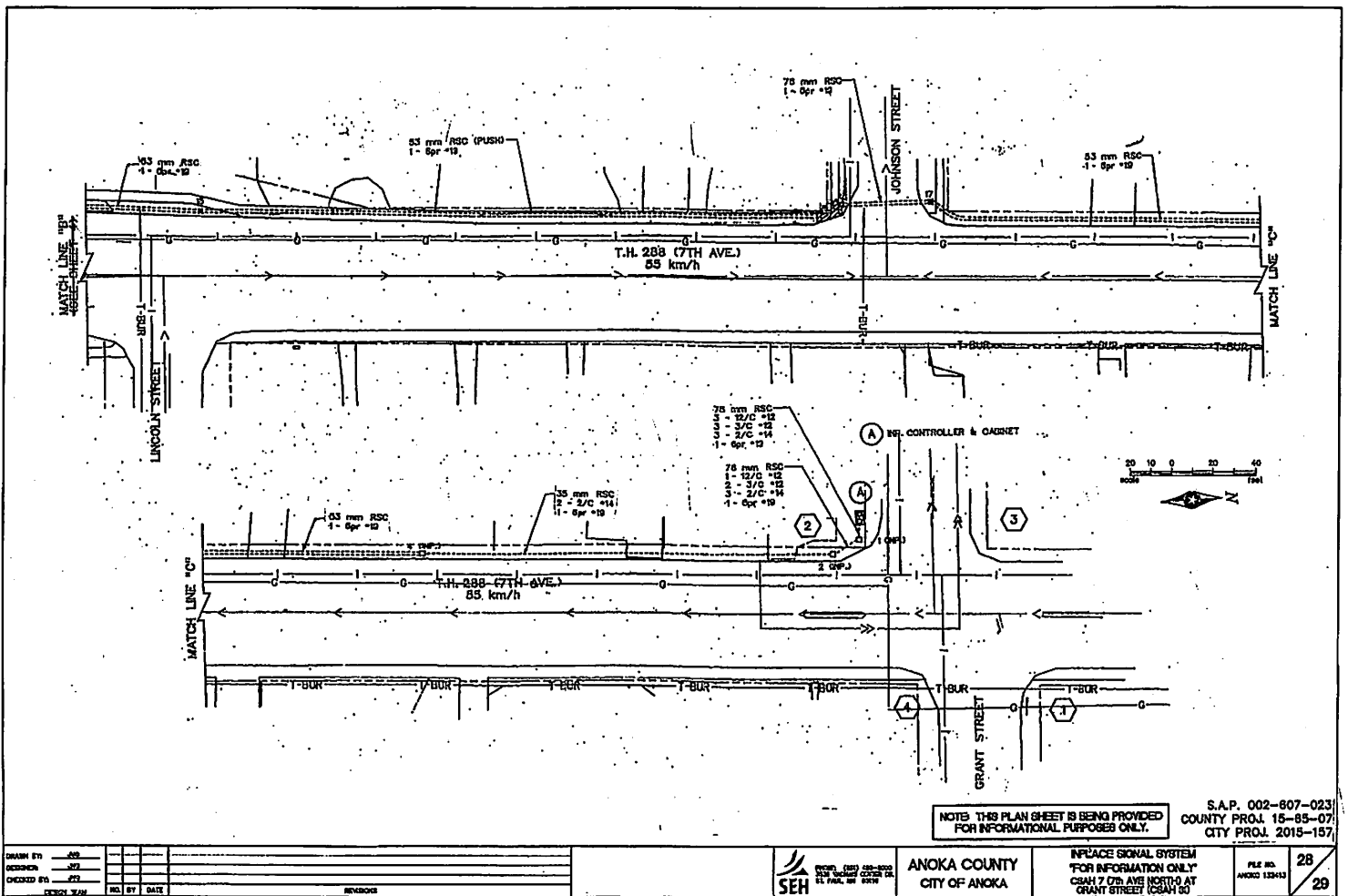


S.A.P. 002-807-023
COUNTY PROJ. 15-85-07
CITY PROJ. 2015-157
NOTE: THIS PLAN SHEET IS BEING PROVIDED
FOR INFORMATIONAL PURPOSES ONLY.

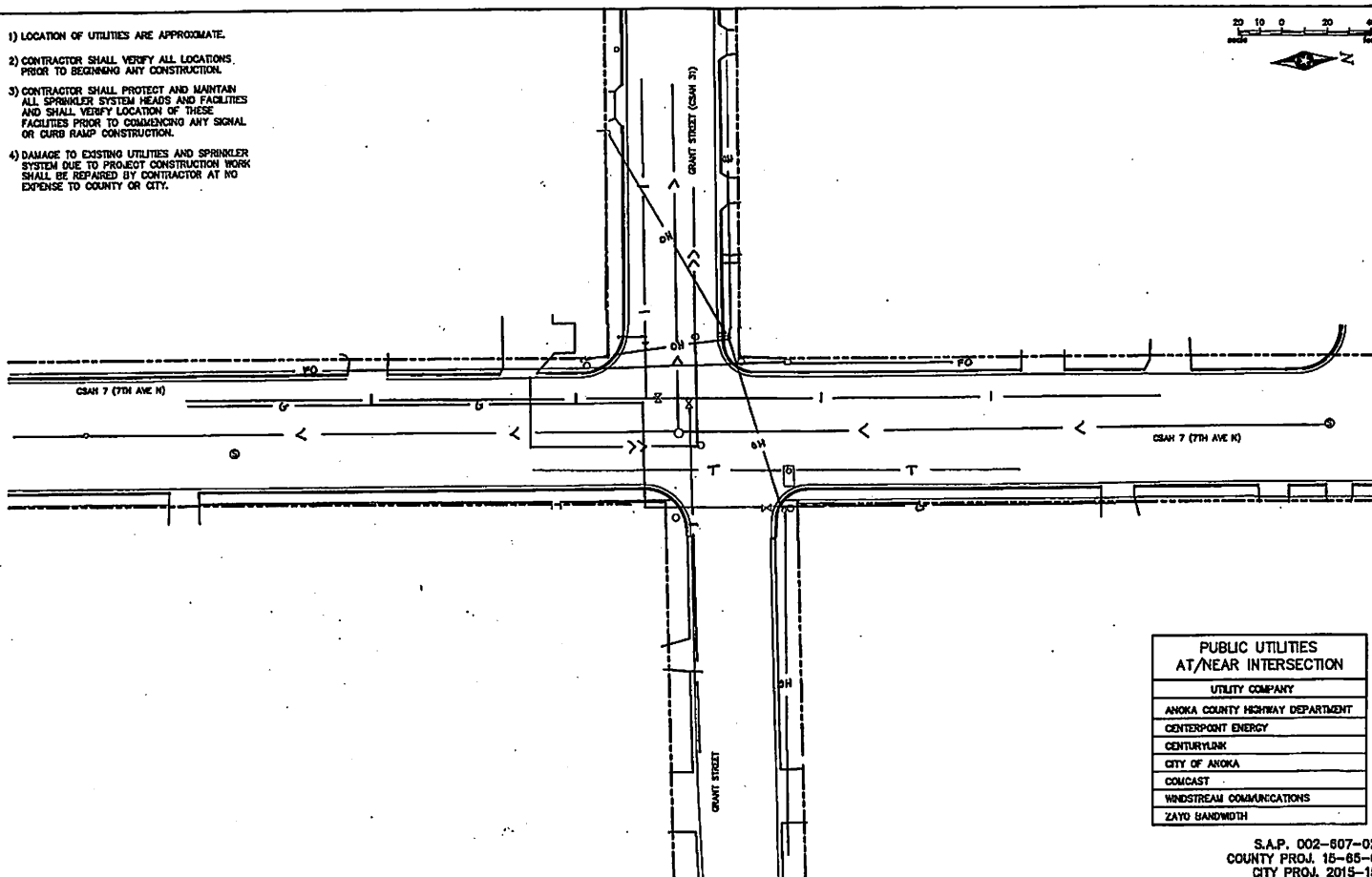
SEE STATEMENT OF ESTIMATED QUANTITIES
AND SPECIAL PROVISIONS REGARDING THE
REMOVAL OF INPLACE SIGNAL SYSTEM BY
THE CONTRACTOR TO BE MEASURED AND
PAID FOR SEPARATELY UNDER ITEM NO.
204 - REMOVE SIGNAL SYSTEM.

- CONSTRUCTION NOTES:
1. REMOVAL DATED 8/23/15. ALL ITEMS OF THIS SIGNAL SYSTEM ARE IN PLACE AND SHALL REMAIN IN PLACE AND FUNCTIONAL UNLESS OTHERWISE NOTED WITHIN AN "X". ("X" REPRESENTS WORK TO BE DONE).
2. THE CONTRACTOR SHALL FURNISH AND INSTALL A ONE-WAY EWP DETECTOR AND CONFIGURATORY LIGHT ON EACH TRAFFIC SIGNAL MAST ARM.
3. THE CONTRACTOR SHALL FURNISH AND INSTALL TWO TWO-CHANNEL EWP PHASE SELECTOR CABLES IN THE SIGNAL CABINET.
4. THE CONTRACTOR SHALL INSTALL A COUNTY FURNISHED CONTROLLER CABINET.
5. A 1/2" X 1/2" PIPE W/END HUB 3/4" X 1/2" PIPE NUTS AND CONDUIT OUTLET BODY SHALL BE INSTALLED SIX FEET FROM THE END OF THE MAST ARMS ON POLES 1, 2, 3, AND 4 FOR EMERGENCY VEHICLE PROTECTION EQUIPMENT.
6. CONTRACTOR SHALL REMOVE AND SALVAGE EXISTING CONTROLLER CABINET.
7. CONTRACTOR SHALL INSTALL EXISTING CONTROLLER IN NEW CABINET.
8. CONTRACTOR SHALL COORDINATE CABLE INSTALLATION, CONTROLLER REPLACEMENT, AND CABINET BURNING WITH ANOKA COUNTY STAFF.
9. THE CONTRACTOR SHALL PULL NEW 3/4" CABLE FROM THE CONTROLLER CABINET TO EACH OF THE EWP CONFIGURATORY LIGHTS.
10. THE CONTRACTOR SHALL PULL NEW 3/4" CABLE WITH GROUND DRAIN WIRE FROM THE CONTROLLER CABINET TO EACH OF THE EWP DETECTORS.
11. THE CONTRACTOR SHALL FURNISH AND INSTALL 3" RGS FROM 1915 TO 1917.





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PUBLIC UTILITIES AT/NEAR INTERSECTION
UTILITY COMPANY
ANOKA COUNTY HIGHWAY DEPARTMENT
CENTERPOINT ENERGY
CENTURYLINK
CITY OF ANOKA
COMCAST
WINDSTREAM COMMUNICATIONS
ZAYO BANDWIDTH

S.A.P. 002-807-023
COUNTY PROJ. 15-65-07
CITY PROJ. 2015-157

DRAWN BY: <u>ACE</u> CHECKED BY: <u>ACE</u> DATE: <u>12/11/13</u>	NO. <u>17</u> DATE <u>12/11/13</u>	I HEREBY CERTIFY THAT THE PLAN AND SPECIFICATIONS OF THE CHAIN AND SUPPORT ARE TRUE AND CORRECT AND THAT I AM A LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA. <u>Richard A. Gray PE</u> Date: <u>December 11, 2013</u>	(PHONE) 612-685-2200 (FAX) 612-685-2201 10000 UNIVERSITY AVENUE, SUITE 100 ST. PAUL, MN 55155	ANOKA COUNTY CITY OF ANOKA	TRAFFIC SIGNAL SYSTEM UTILITIES CS#H 7.07A AVE NORTH AT CHRYST STREET (CS#H 30)	FILE NO. ANOKA 124-143	28 29
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EXHIBIT "B"
7TH GRANT SIGNAL SYSTEM

					TH GRANT SIGNAL SYSTEM		PARTICIPATING FEDERAL FUNDS				
ITEM NO.	ITEM DESCRIPTION	UNIT	TOTAL PROJECT QUANTITIES ESTIMATED	ESTIMATE		ANOKA COUNTY 903-007-023 ROADWAY QUANTITIES ESTIMATED	ANOKA COUNTY 03-500-07 COST	CITY OF ANOKA ROADWAY QUANTITIES ESTIMATED	CITY OF ANOKA COST	CITY OF ANOKA ROADWAY QUANTITIES ESTIMATED	
				Unit Cost	Total						
2102.502	Pavement Marking Removal	SQ FT	594	\$5.00	\$3,970.00	594	\$3,970.00	.000	\$0.00		
2102.502	Pavement Marking Removal	LN FT	420	\$3.00	\$1,260.00	420	\$1,260.00		\$0.00		
2104.501	Remove Curb & Gutter	LN FT	148	\$15.00	\$2,220.00	148	\$2,220.00		\$0.00		
2104.501	Remove Retaining Wall	LN FT	20	\$50.00	\$1,000.00	20	\$1,000.00		\$0.00		
2104.503	Remove Bituminous Pavement	SQ FT	298	\$15.00	\$4,440.00	298	\$4,440.00		\$0.00		
2104.503	Remove Concrete Walk	SQ FT	345	\$5.00	\$1,725.00	345	\$1,725.00		\$0.00		
2104.509	Remove Signal System	EACH	1	\$7,000.00	\$7,000.00	0.375	\$2,625.00	0.625	\$4,375.00		
2104.513	Sawing Bituminous Pavement	LN FT	156	\$5.00	\$780.00	156	\$780.00		\$0.00		
2104.523	Salvage Sign	EACH	10	\$75.00	\$750.00	10	\$750.00		\$0.00		
2105.501	Common Excavation	CU YD	74	\$20.00	\$1,480.00	74	\$1,480.00		\$0.00		
2123.010	Slud Loader	HOUR	8	\$100.00	\$800.00	8	\$800.00		\$0.00		
2231.502	Bituminous Patching Mixture	CU YD	5	\$500.00	\$2,500.00	5	\$2,500.00		\$0.00		
2511.501	6" Concrete Walk	LN FT	1189	\$12.00	\$14,268.00	345	\$4,140.00	844	\$10,128.00		
2531.501	Concrete Curb and Gutter Design B018	LN FT	748	\$40.00	\$30,020.00	74	\$2,960.00	74	\$2,960.00		
2531.502	Concrete Curb Design V5	LN FT	70	\$40.00	\$2,800.00	35	\$1,400.00	35	\$1,400.00		
2531.502	Concrete Curb Design V5	SQ FT	100	\$50.00	\$5,000.00		\$0.00		\$0.00		
2531.618	Truncated Domes	LUMP SUM	1	\$7,500.00	\$7,500.00	0.491	\$3,662.50	509	\$3,837.50		
2543.001	Traffic Control	EACH	4	\$2,500.00	\$10,000.00	1.984	\$4,910.00	2.036	\$5,090.00		
2543.002	Portable Changeable Message Sign	HOUR	1	\$75.00	\$75.00	0.491	\$36.83	509	\$38.18		
2543.010	Police Officer	SQ FT	64	\$40.00	\$2,560.00	64	\$2,560.00		\$0.00		
2544.531	Sign Panels Type D Signals	SQ FT	62	\$40.00	\$2,480.00	62	\$2,480.00		\$0.00		
2544.537	Install Sign Type C	EACH	9	\$50.00	\$450.00	9	\$450.00		\$0.00		
2545.511	Traffic Control Signal System	SGF SYS	1	\$147,600.00	\$147,600.00	0.375	\$55,350.00	0.625	\$92,250.00		
2545.513	Emergency Vehicle Preemption System	LUMP SUM	1	\$3,900.00	\$3,900.00		\$0.00	1	\$3,900.00		
2545.514	Traffic Control Interconnect	LUMP SUM	1	\$18,100.00	\$18,100.00	1	\$18,100.00		\$0.00		
2545.602	Signal Service Cabinet	EACH	1	\$7,500.00	\$7,500.00	0.375	\$2,812.50	0.625	\$4,687.50		
2574.525	Common Topsoil Borrow	CU YD	17	\$20.00	\$340.00	17	\$340.00		\$0.00		
2575.501	Seeding	ACRE	0.04	\$1,000.00	\$40.00	0.04	\$40.00		\$0.00		
2575.502	Seed Mixture 25-131	LB	14	\$5.00	\$70.00	14	\$70.00		\$0.00		
2575.528	Erosion Control Blankets Category 0	SQ YD	144	\$3.00	\$432.00	144	\$432.00		\$0.00		
2575.529	Pavement Marking Preform Thermoplastic	SQ FT	30	\$30.00	\$900.00	30	\$900.00		\$0.00		
2582.502	4" Solid Line Epoxy	LN FT	200	\$1.00	\$200.00	200	\$200.00		\$0.00		
2582.502	4" Broken Line Epoxy	LN FT	360	\$1.00	\$360.00	360	\$360.00		\$0.00		
2582.502	24" Solid Line Epoxy	LN FT	100	\$10.00	\$1,000.00	100	\$1,000.00		\$0.00		
2582.502	4" Double Solid Line Epoxy	LN FT	1200	\$1.00	\$1,200.00	1200	\$1,200.00		\$0.00		
2582.503	Crosswalk Preformed Thermoplastic	SQ FT	594	\$15.00	\$8,910.00	594	\$8,910.00		\$0.00		
							\$0.00		\$0.00		
	County Furnished Items (cabinet)	EACH	1	\$30,000.00	\$30,000.00	0.375	\$11,250.00	0.625	\$10,750.00		
							\$0.00		\$0.00		
BASE BID TOTAL:					\$299,410.00		\$147,013.83		\$152,396.18		

Project Number - Project Name - FUNDING SPLITS								
	PROJECT TOTALS	ANOKA COUNTY TOTALS	ANOKA COUNTY FEDERAL FUNDS	ANOKA COUNTY STATE AID FUNDS	ANOKA COUNTY LOCAL FUNDS	CITY OF ANOKA TOTALS	CITY OF ANOKA FEDERAL FUNDS	CITY OF ANOKA STATE AID FUNDS
ROADWAY	\$299,410.00	\$147,013.83	\$0.00	\$147,013.83	\$0.00	\$152,396.18	\$0.00	\$0.00
DRAINAGE (County 80%, City 10%, City 10%)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
CONSTRUCTION TOTAL	\$299,410.00	\$147,013.83	\$0.00	\$147,013.83	\$0.00	\$152,396.18	\$0.00	\$0.00
8% CONSTRUCTION ENGINEERING	\$23,952.80	\$11,781.11		\$11,781.11	\$0.00	\$12,191.69		\$0.00
DESIGN ENGINEERING	\$0.00	\$0.00						
RIGHT OF WAY	\$0.00	\$0.00						
PROJECT TOTAL	\$323,362.80	\$158,774.93	\$0.00	\$158,774.93	\$0.00	\$164,587.87	\$0.00	\$0.00

EXHIBIT "C"

COST-SHARING AGREEMENT FOR PROJECTS CONSTRUCTED IN ANOKA COUNTY USING COUNTY STATE AID FUNDS OR LOCAL TAX LEVY DOLLARS

ITEMS	COUNTY SHARE	CITY SHARE
Concrete Curb & Gutter	50%	50%
Concrete Curb & Gutter for Median Construction	100%	0%
Concrete Median	100%	0 ^{*1}
Concrete Sidewalk	0%	100%
Concrete Sidewalk Replacement	100%	0%
Bikeways	0%	100%
Bikeway Replacement	100%	0%
Unless existing trail not placed at edge of RAW		
Construction or Adjustment of Local Utilities	0%	100%
Grading, Base and Bituminous	100%	0%
Storm Sewer	based on state aid letter ^{*2}	based on state aid letter ^{*2}
Driveway Upgrades	100%, in-kind	100%, of up-grades
Traffic Signals, new & replacements (communities larger than 5,000) w/ State Aid approved SJR	½ the cost of its legs of the intersection	the cost of its legs of the intersection plus ½ the cost of the County legs of the intersection
Traffic Signals, new & replacements (communities less than 5,000) w/ State Aid approved SJR	100%	0%
Traffic Signal, w/o State Aid approved SJR	0%	100%
EVP	0%	100%
Engineering Services	^{*3}	^{*3}
Right-of-Way	100% ^{*4}	0%
Street Lights	0%	100%
Noise Walls	100%, if not previously notified ^{*5}	100%, if previously notified ^{*5}

- ^{*1} ~~The County pays for 100% of Standard Median Design such as plain concrete. If a local unit of government requests decorative median such as brick, stamped concrete, or landscaping, the local unit will pay the additional cost above the cost of standard median.~~
- ^{*2} ~~In the event no State Aid is being used, or in the event the state aid letter does not determine cost split percentages, drainage cost shares will be computed by the proportion of contributing flow outside the County right of way to the total contributing flow.~~
- ^{*3} ~~Engineering shall be paid by the Lead Agency except that any participating agency will pay construction engineering in the amount of 8% of the construction costs paid by that agency.~~
- ^{*4} ~~In the event that the Township or City requests purchase of right-of-way in excess of those right-of-ways required by County construction, the Township or City participates to the extent an agreement can be reached in these properties. For instance, a Township or City may request a sidewalk be constructed alongside a County roadway which would require additional right-of-way, in which case the Township or City may pay for that portion of the right-of-way. Acquisition of right-of-way for new alignments shall be the responsibility of the Township or City in which the alignment is located. This provision may be waived by agreement with the County Board if the roadway replaces an existing alignment and the local unit of government takes jurisdiction of that existing alignment. In addition, any costs, including right-of-way costs, incurred by the County because a Township or City did not acquire sufficient right-of-way during the platting process or redevelopment process as requested by the County shall be paid by the Township or City.~~
- ^{*5} ~~Notification includes any letter to the agency indicating that noise will potentially be an issue in the future, likely received during the Plat Review Process. Maintenance shall be the responsibility of the agency paying for the initial installation. When the County is the responsible agency, it shall pay 100% of Standard Noise Wall Cost. If a local agency requests decorative noise walls, the requesting agency will pay the additional cost above the cost of standard noise wall.~~