Information for File # 2015-03193-WMS

Applicant **Town of Hawthorne**

Corps Contact Bill Sande

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Primary County Douglas

Section 19

Township 47N

Range 12W

Information Complete On February 16, 2016

Posting Expires On March 17, 2016

Authorization Type WI-LOP-06

This application is being reviewed in accordance with the practices for documenting Corps jurisdiction under Sections 9 & 10 of the Rivers and Harbor Act of 1899 and Section 404 of the Clean Water Act identified in Regulatory Guidance Letter 07-01. We have made a preliminary determination that the aquatic resources that would be impacted by the proposed project are regulated by the Corps of Engineers under Section 404 of the Clean Water Act. Our jurisdictional review and final jurisdictional determination could result in modifications to the scope of the project's regulated waterbody/wetland impacts and compensatory mitigation requirements identified above. An approved jurisdictional determination will be made prior to reaching a permit decision, and will be posted on the St. Paul District web page at http://www.mvp.usace.army.mil/.

PROJECT DESCRIPTION AND PURPOSE: The proposed project involves the realignment and improvement of approximately 800 feet of Willis Road at the County Trunk Highway "V" intersection. The purpose of the project is to reconstruct the intersection to appropriate design standards as needed to accommodate safe travel on Willis Road due to an increase in traffic resulting from the closure of Crossover Road and Hines Road as part of Wisconsin Central Ltd.'s double track construction project. The improved roadway would be 26 feet wide, with an overall right-of-way width of 66 feet

for the length of the realignment. Two 24-inch equalization culverts would be installed to maintain hydrology between wetlands located on both sides of the new road. The north 350 feet of existing Willis Road would be abandoned and obliterated.

NAME, AREA AND TYPES OF WATERS (INCLUDING WETLANDS) SUBJECT TO LOSS: The project would result in the loss of approximately 0.57-acre of wetlands. Wetland impacts by wetland type includes; 0.17-acre of wet meadow, 0.17-acre of alder thicket and 0.23-acre of forested wetlands.

ALTERNATIVES CONSIDERED: An alternative alignment located west of the proposed project was evaluated. However, a review of the Wisconsin Wetland Inventory and a site review on October 5, 2015, revealed the construction of a new road segment through this area would permanently impact 1.24 to 1.48 acres of wetlands and result in increased fragmentation.

COMPENSATORY MITIGATION: The applicant proposes to compensate for the loss of 4.51 acres of wetlands by purchasing wetland credits from the Wisconsin Wetland Conservation Trust (WWCT) In-lieu Fee Program (ILFP) approved by the St. Paul District Corps on November 19, 2014.

Drawings See attached.

CANADIAN NATIONAL (CN) SUPERIOR SUBDIVISION
WILLIS ROAD REALIGNMENT

TOWN OF HAWTHORNE, WISCONSIN

ABBREVIATIONS

AADT	AVERAGE ANNUAL DAILY TRAFFIC
ADT	AVERAGE DAILY TRAFFIC
AGG	AGGREGATE
AVE	AVENUE
AVG	AVERAGE
BC	BACK OF CURB
BM	BENCHMARK
B/P	BOTTOM OF PIPE
BOT	BOTTOM
BIT	BITUMINOUS
BVC	BEGIN VERTICAL CURVE
BOP	BEGINNING OF PROJECT
CB	CATCH BASIN
CC	CONCRETE CORNER
C-C	CENTER TO CENTER
CF	CUBIC FEET
C&G	CURB & GUTTER
CIP	CAST IRON PIPE
CJ	CONSTRUCTION JOINT
C/L	CENTERLINE
CMP	CORRUGATED METAL PIPE
CO	CLEANOUT
CONC	CONCRETE
CP	CONTROL POINT
CV	COMPACTED VOLUME
D	DEGREE OF CURVATURE
DEPT	DEPARTMENT
DIA	DIAMETER
DIM	DIMENSION
DIP	DUCTILE-IRON PIPE
DWG	DRAWING
EBS	EXCAVATION BELOW SUBGRADE
E	EAST
EL	ELEVATION
E/L	EASEMENT LINE
ELEC	ELECTRIC
ESMT	EASEMENT
EST	ESTIMATE
EVC	END VERTICAL CURVE
ESAL	EQUIVALENT SINGLE AXEL LOAD
EW	END WALL
EX	EXISTING
EOP	END OF PROJECT
FE	FIELD ENTRANCE
FF	FINISHED FLOOR
FG	FINISHED GRADE
FL	FLOW LINE
FM	FORCE MAIN
GB	GRADE BREAK
GR	GRADE
GUT	GUTTER
GV	GATE VALVE
HD	HEAVY DUTY
HDPE	HIGH-DENSITY POLYETHYLENE PIPE
HGL	HYDRAULIC GRADE LINE
HORIZ	HORIZONTAL
HPT	HIGH POINT
HWL	HIGH WATER LEVEL
HWY	HIGHWAY
HYD	HYDRANT
I	INTERSECTION ANGLE
ID	INSIDE DIAMETER
INV	INVERT
IP	IRON PIPE
L	LENGTH OF CURVE
LAT	LATERAL
L.H.T.O	LEFT HAND TURNOUT
LPT	LOW POINT
MAX	MAXIMUM
MGD	MILLION GALLONS PER DAY
MIN	MINIMUM
MISC	MISCELLANEOUS
MJ	MECHANICAL JOINT
MON	MONUMENT
N	NORTH
NE	NORTHEAST
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
NW	NORTHWEST
OC	ON CENTER
OD	OUTSIDE DIAMETER
P	POLE
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVATURE
PI	POINT OF INTERSECTION
PL	PROPERTY LINE
PM	PARCEL MAP
POB	POINT OF BEGINNING
PP	POWER POLE
PRC	POINT OF REVERSE CURVE
PE	PRIVATE ENTRANCE
PROP	PROPOSED
PRVC	POINT OF REVERSE VERTICAL CURVE
PT	POINT OF TANGENCY
PVC	POLYVINYL CHLORIDE / POINT OF VERTICAL CURVE
PVI	POINT OF VERTICAL INTERSECT
PVMT	PAVEMENT
R	RADIUS
RC	REINFORCED CONCRETE
RCP	REINFORCED CONCRETE PIPE
RD	ROAD
REINF	REINFORCED
REQD	REQUIRED
REV	REVISE / REVISION
RH	RIGHT HAND
R.H.T.O.	RIGHT HAND TURNOUT
R/W OR ROW	RIGHT OF WAY
S	SOUTH
SAN	SANITARY
SMH	SANITARY MANHOLE
STMH	STORM MANHOLE
SE	SOUTHEAST
SPEC	SPECIFICATION
ST	STREET
STD	STANDARD
SW	SOUTHWEST
T	TANGENT LENGTH OF CURVE
TC	TOP OF CURB
T.O.	TURNOUT
TP	TOP OF PIPE
TR	TOP OF RAIL
TW	TOP OF WALL
TYP	TYPICAL
TNH	TOP NUT OF HYDRANT
VC	VERTICAL CURVE
VPC	VERTICAL POINT OF CURVE
VPI	VERTICAL POINT OF INTERSECTION
VPT	VERTICAL POINT OF TANGENCY
VAR	VARIABLE
W	WEST
W/	WITH
W/O	WITHOUT
WWF	WELDED WIRE FABRIC
X	EAST GRID COORDINATE
Y	NORTH GRID COORDINATE

STANDARD SYMBOLS

DETAIL BUBBLE: 1 / C100

SECTION BUBBLE: 1 / C100

DETAIL TAG: 1 / C100 DETAIL TAG SCALE: N.T.S.

TITLE TAG: TITLE TAG SCALE: N.T.S.

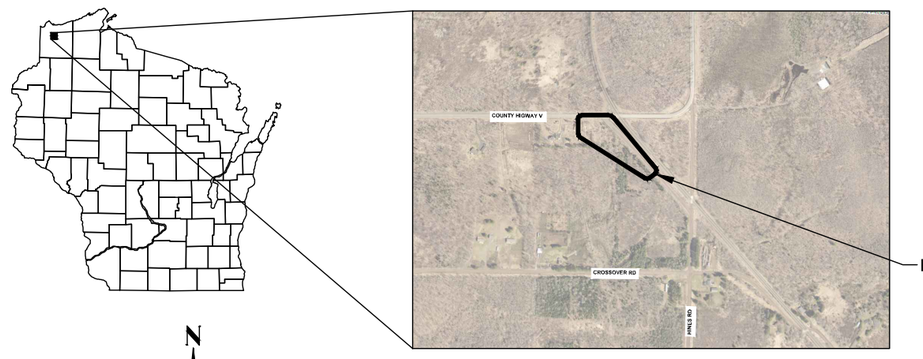
GRID BUBBLE: 1

REVISION TAG: 1

REVISION CLOUD:

BREAK LINE:

PROJECT LOCATION



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SHEET INDEX

T100	TITLE SHEET
C200	PLAN & PROFILE
C201	PLAN & PROFILE
C300	TYPICAL SECTION
C400	CROSS SECTIONS
C401	CROSS SECTIONS
C402	CROSS SECTIONS
C403	CROSS SECTIONS
C404	CROSS SECTIONS
C405	CROSS SECTIONS
C406	CROSS SECTIONS

GOVERNING SPECIFICATIONS

1.

2.

WARNING
BEFORE DIGGING, CALL 1-800-252-1166
FOR UNDERGROUND UTILITY LOCATIONS.
REQUIRED BY LAW

CONTRACTOR SHALL FIELD VERIFY THE LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES AND TOPOGRAPHIC FEATURES PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR VARIATIONS FROM THE PLANS.

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I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF WISCONSIN.

SIGNATURE: PRELIMINARY NOT FOR CONSTRUCTION

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DATE:	REV:	DESCRIPTION	REV. BY:

CANADIAN NATIONAL (CN)
SUPERIOR SUBDIVISION
MP 440.50 TO 446.10
TOWN OF HAWTHORNE, WISCONSIN

TITLE SHEET

JOB No: 151025
DATE: 01/21/16
DRAWN BY: DJJ
CHECKED BY: PJM

SHEET: T100

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Jan 21, 2016 - 8:51am
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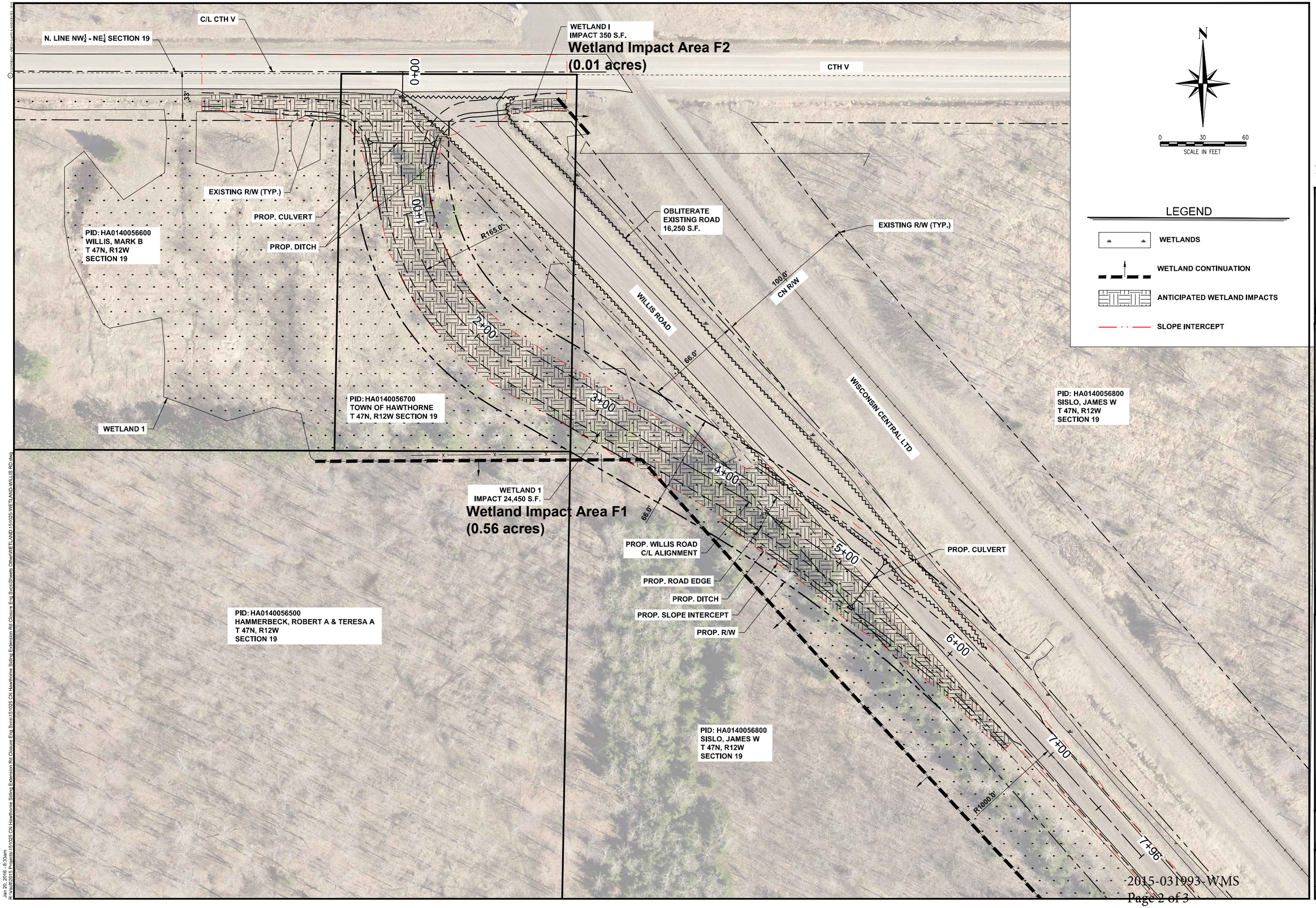

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TOWN OF HAWTHORNE, WISCOSIN

WILLIS ROAD REALIGNMENT
WETLAND IMPACTS

JOB No: 151025
DATE: 01/19/16
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C100

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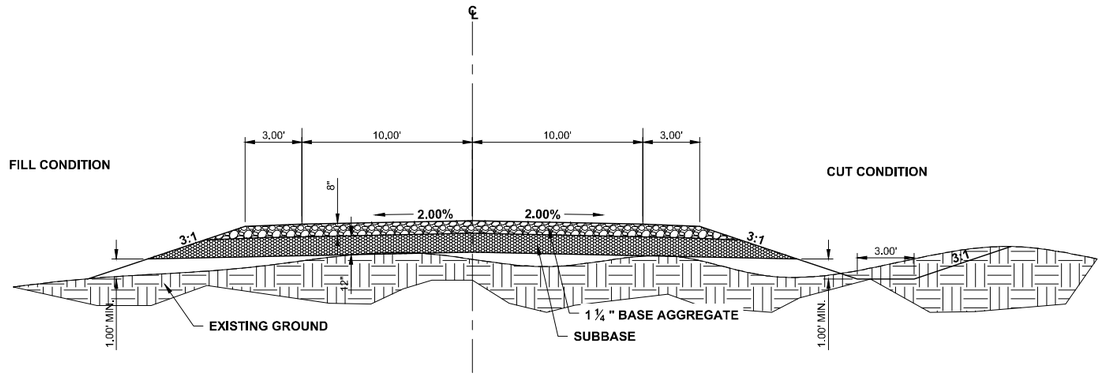

1/300 WILLIS ROAD TYPICAL SECTION

SCALE: NTS

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TYPICAL SECTIONS

JOB No: 151025
DATE: 01/21/2015
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SHEET: 300

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