Building a Better World for All of Us®

MEMORANDUM

TO: City Council

FROM: Greg Anderson, City Engineer

DATE: February 1, 2017

RE: Alexander Court
SEH No. CANNO 140030 14.00

This memo is to update the council on the status of the Alexander Court Project, the proposed access road to the hotel project in the northwest quadrant of the Highway 52/CSAH 24 interchange. At the regular council meeting on December 6, 2016 preparation of the construction plans was ordered. The draft plans are now ready and attached to this memo.

The Public Works Commission will review the draft plans at their February 7 meeting, prior to the council meeting.

Below is an estimated project schedule for the project moving forward:

- Council accepts plans and orders advertisement for bids — February 7
- Anticipated bid opening — March 23
- Council receives bids and awards project — April 4
- Construction begins — Early May
- Construction Complete — June/July

We are requesting council authorization of placing the advertisement for bids for the Alexander Court Project as presented.

ah
Attachments
s:\ae\c\canno\140030\1-genl\16-meet\bid memo to council 2017 02 01.docx

LEGEND

5+00 6+00 — STREET CENTERLINE

5 6 — SURVEY BASELINE

COUNTY

SECTION

QUARTER

SIXTEENTH

CORPORATE LIMITS

EXISTING

RIGHT OF WAY

PERMANENT EASEMENT

PROPERTY LINE

R.R. RIGHT OF WAY

SANITARY SEWER AND MANHOLE

FORCE MAIN

SANITARY SEWER SERVICE & CLEANOUT

WATER MAIN, HYDRANT AND VALVE

WATER SERVICE AND CURB STOP BOX

WATER VALVE MANHOLE

STORM SEWER, APRON, MANHOLE AND CATCH BASIN

CULVERT

BULKHEAD

BURIED FIBER OPTIC CABLE

BURIED FIBER OPTIC DUCT OR CONDUIT

BURIED PHONE CABLE AND PEDESTAL

BURIED PHONE DUCT OR CONDUIT AND MANHOLE

BURIED TV CABLE AND PEDESTAL

BURIED ELECTRIC CABLE

BURIED ELECTRIC DUCT OR CONDUIT AND MANHOLE

OVERHEAD ELECTRIC, POLE AND DOWN GUY ANCHOR

LIGHT POLE

TRAFFIC SIGNAL STANDARD

GAS MAIN

GAS SIGN, VALVE AND VENT

PETROLEUM PIPELINE

SOIL BORING

TRAVERSE POINT

CONCRETE CURB AND GUTTER

EXISTING PAVEMENT OR SIDEWALK

SIGN (HWY, PARK, STOP, ETC.)

STREET NAME SIGN

DITCH

RAILROAD TRACKS

FENCE (UNIDENTIFIED)

BARBED WIRE FENCE

CHAIN LINK FENCE

ELECTRIC WIRE FENCE

WOOD FENCE

WOVEN WIRE FENCE

PLATE BEAM GUARDRAIL

CABLE GUARDRAIL

DECIDUOUS AND CONIFEROUS TREE

BUSH–SHRUB

WOODED AREA

WETLAND

BUILDING

PROPOSED

NEW RIGHT OF WAY

PERMANENT EASEMENT

TEMPORARY EASEMENT

SANITARY SEWER AND MANHOLE

FORCE MAIN

SANITARY SEWER SERVICE & CLEANOUT

WATER MAIN, HYDRANT AND VALVE

WATER SERVICE AND CURB STOP BOX

WATER VALVE MANHOLE

STORM SEWER, MANHOLE AND CATCH BASIN

CULVERT

BULKHEAD

DRAIN PIPE

DITCH

CONCRETE CURB AND GUTTER

SILT FENCE

FLOATATION SILT CURTAIN

BIOROLL

LIGHT POLE

TRAFFIC SIGNAL, STANDARD

SIGN (HWY, PARK, STOP, ETC.)

STREET LIGHT FEED POINT

STREET LIGHTING CABLE

REMOVE TREE

DRAFT

CITY OF CANNON FALLS, MINNESOTA

CONSTRUCTION PLANS FOR

STORM SEWER, AGGREGATE BASE, CONCRETE CURB AND GUTTER, BITUMINOUS SURFACING

ALEXANDER COURT

CITY PROJECT NO.
CANNO 140030

NOTE:
THE SUBSURFACE UTILITY QUALITY INFORMATION IN THIS PLAN IS LEVEL D. THIS UTILITY QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CI/ASCE 38–02 ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA."

THE CONTRACTOR SHALL CALL THE GOPHER STATE ONE CALL SYSTEM AT 811 BEFORE COMMENCING EXCAVATION.

811 Know what's **below.** **Call** before you dig.

GOVERNING SPECIFICATIONS

THE 2014 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN EXCEPT AS MODIFIED BY THE SPECIFICATIONS FOR THIS PROJECT.

ALL TRAFFIC CONTROL DEVICES AND SIGNING SHALL CONFORM TO THE MMUTCD, INCLUDING "FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS", – CURRENT EDITION.

INDEX

THIS PLAN CONTAINS 11 SHEETS.

PROJECT LOCATION

CITY OF CANNON FALLS
GOODHUE COUNTY

CANNON FALLS, MINNESOTA

SEH
PHONE: 651.490.2000
3535 VADNAIS CENTER DR.
ST. PAUL, MN 55110–5196
www.sehinc.com

I HEREBY CERTIFY THAT THIS PLAN 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 MINNESOTA.

GREGORY F. ANDERSON, PE
Signature

Date: 01.3.16 Lic. No. 26859

FILE NO. CANNO 140030

1 / 11

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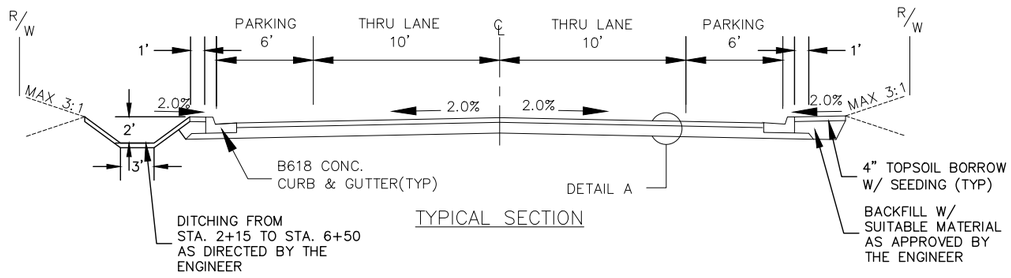
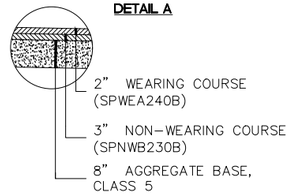


TYPICAL SECTION



BASIS OF ESTIMATED QUANTITIES

AGGREGATE BASE CLASS 5	CV AS MEASURED IN FIELD
SELECT GRANULAR BORROW	CV AS MEASURED IN FIELD
BITUMINOUS WEARING COURSE MIXTURE	113 #/SY/IN
BITUMINOUS BASE COURSE MIXTURE	113 #/SY/IN

EARTHWORK SUMMARY

COMMON EXCAVATION: 846 CY (P) (CV)
- TOPSOIL STRIPING: 350 CY (P) (CV)
- COMMON BORROW: 496 CY (P) (CV)

EMBANKMENT: 2625 CY
- AGGREGATE BASE CL 5: 776 CY (CV)
- SELECT GRANULAR BORROW: 1353 CY (CV)
- COMMON BORROW 496 CY (P) (CV) (PAID AS COMMON EXC.)

EARTHWORK NOTES:

COMMON EXCAVATION INCLUDES TOPSOIL STRIPING AND DITCH GRADING QUANTITIES.

GENERAL NOTES

1. CONTRACTOR SHALL NOTIFY PROPERTY OWNERS 72 HOURS IN ADVANCE OF DISRUPTION OF ACCESS TO PROPERTY OR BOULEVARDS.
2. CONTRACTOR SHALL MINIMIZE INTERRUPTION OF SANITARY SEWER AND WATER MAIN SERVICE TO ADJACENT PROPERTIES. ANY PROPERTY OUT OF SERVICE SHALL BE COORDINATED 72 HOURS IN ADVANCE BY THE CONTRACTOR WITH THE CITY, RESIDENTS AND BUSINESS OWNERS.
3. ANY USE OF TRENCH BOX, SHEETING, SHORING OR OTHER METHODS OR MEANS OF CONSTRUCTION NECESSARY TO COMPLETE CONSTRUCTION WITHIN CONSTRUCTION LIMITS OR SLOPE EASEMENTS SHOWN WILL BE CONSIDERED INCIDENTAL AND NO DIRECT COMPENSATION WILL BE MADE THEREFORE.
4. ALL SALVAGED ITEMS OWNED BY GOODHUE COUNTY OR THE CITY OF CANNON FALLS SHALL BE DELIVERED TO THE OWNER AS DIRECTED BY THE ENGINEER.
5. ALL TRAFFIC LANES TO BE USED DURING CONSTRUCTION MUST BE DELINEATED TO KEEP VEHICLES A SAFE DISTANCE AWAY FROM THE EXCAVATION. THE DELINEATION SHOULD COINCIDE WITH POINTS ESTABLISHED BY PROJECTING A 1 (V) : 2 (H) OR GREATER (FLATTER) SLOPE BETWEEN THE EDGE OF THE TRAFFIC SURFACE AND THE BOTTOM OF THE EXCAVATION.
6. WATER, GAS, ELECTRIC, SEWER, CABLE TV, ETC. LINES SHOWN ON THE DRAWINGS ARE PLOTTED FROM THE BEST INFORMATION AVAILABLE AT THE TIME OF PLAN PREPARATION. THE PLANS MAY NOT DEPICT THE EXACT LOCATIONS OR ELEVATIONS AND THE CONTRACTOR SHALL VERIFY ALL EXISTING UTILITY LOCATIONS AND ELEVATIONS PRIOR TO COMMENCING ANY EXCAVATION.
7. CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES AND PIPING NOT MARKED FOR REMOVAL. AT ALL TIMES DURING CONSTRUCTION
8. STREET WIDTH DIMENSIONS AND RADII ARE TO FACE OF CURB, UNLESS NOTED OTHERWISE.
9. WHERE SURVEY CONTROL MONUMENTS OR IRONS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE ANY SUCH ITEMS ARE REMOVED. THE CONTRACTOR SHALL CAREFULLY PRESERVE & PROTECT ALL MONUMENTS AND IRONS UNTIL THE OWNER & AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.
10. ALL DRIVEWAYS, SIDEWALKS, TRAILS & EXISTING STREETS SHALL BE SAWCUT AT THE MATCH POINTS OR AS DIRECTED.
11. NO TREES OR SHRUBS ARE TO BE REMOVED WITHOUT BEING MARKED FOR REMOVAL BY THE ENGINEER.
12. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION AND ELEVATION OF ALL EXISTING UTILITIES PRIOR TO COMMENCING ANY EXCAVATION.
13. ALL BMP'S SHALL BE IN PLACE PRIOR TO ANY CONSTRUCTION ACTIVITY.
14. COMPACTION OF ROADWAY EMBANKMENT WILL BE BY THE "QUALITY COMPACTION (VISUAL INSPECTION) METHOD".
15. CONSTRUCTION OF "FIELD ENTRANCES", "FARM ENTRANCES", AND "ROAD APPROACHES" SHALL FOLLOW MN/DOT STANDARD PLATE 9000 D.
16. TEMPORARY EROSION CONTROL DEVICES AND THEIR SUGGESTED LOCATIONS ARE SHOWN IN THE PLANS ALONG WITH PAY ITEMS FOR THEIR USE. THIS DOES NOT HOWEVER RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITIES TO CONDUCT HIS CONSTRUCTION IN A MANNER THAT WILL SUFFICIENTLY CONTROL EROSION. RESPONSIBILITIES FOR CONTROL OF EROSION ARE SET FORTH IN MN/DOT SPECIFICATIONS 1717, 1803, 2101, 2105, 2573, 2575 AND AS AMENDED BY THE SPECIAL PROVISIONS.

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DRAWN BY: DJC
DESIGNER: DJC
CHECKED BY: GFA
DESIGN TEAM

NO.	BY	DATE	REVISIONS

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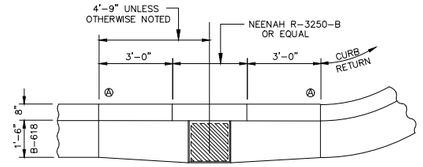
CANNON FALLS, MINNESOTA

TYPICAL SECTION - GENERAL NOTES
ALEXANDER COURT

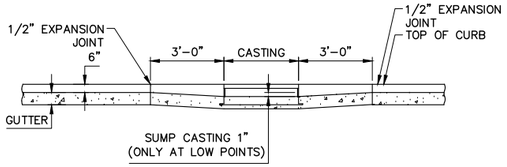
FILE NO. 140030

2/11



Ⓐ TAPER CONC. CURB & GUTTER TO MATCH CASTING

PLAN

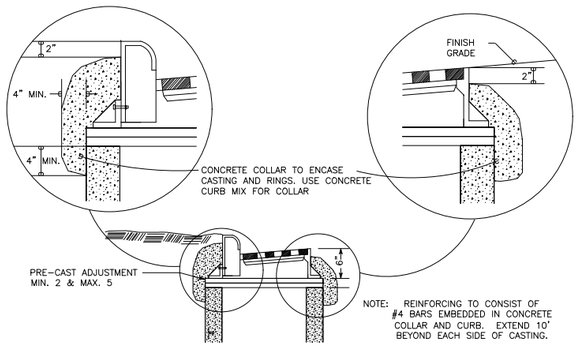


SECTION

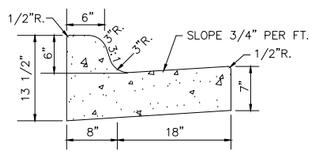
NTS

MNDOT B618 CURB AND GUTTER CONSTRUCTION AT CATCH BASIN (WITH 2X3 CASTING)

Revised: Oct. 2011 | SEH Plate No. STR-02



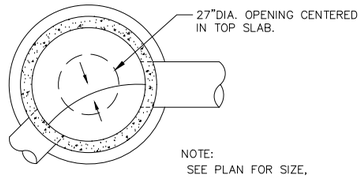
CONCRETE ENCASED CATCH BASIN CASTING FOR STORM DRAIN



B618 C&G

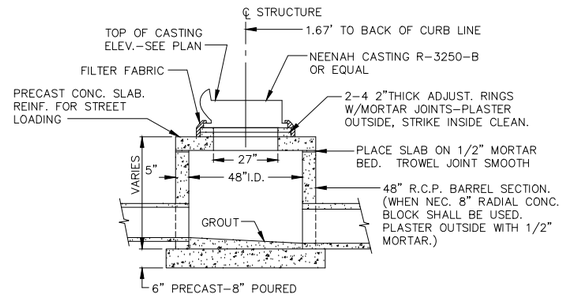
NOTE: THE CITY'S STANDARD C&G IS B618
OTHER STYLES OF CURBS CAN BE UTILIZED TO MATCH EXISTING C&G WITH APPROVAL FROM DIRECTOR OF PUBLIC WORKS

STANDARD DETAILS
CURB TYPE



NOTE:
SEE PLAN FOR SIZE, TYPE AND LOCATION OF CONNECTING PIPE.

PLAN



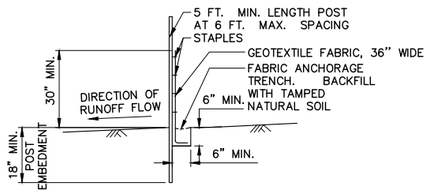
SECTION

TYPE "Y" CATCH BASIN
(ROUND CASTING)

NTS

SILT FENCE

Revised: Jan. 2013 | SEH Plate No. ERO-15



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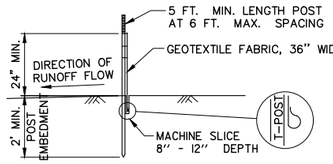
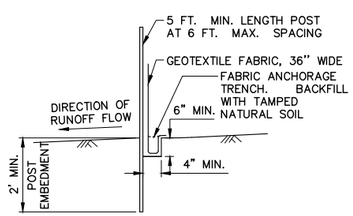


STANDARD MACHINE SLICED



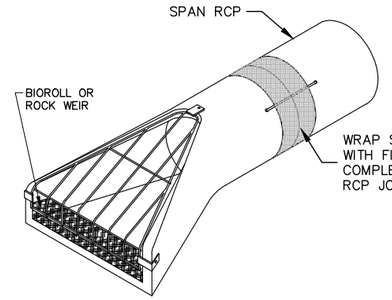
HEAVY DUTY

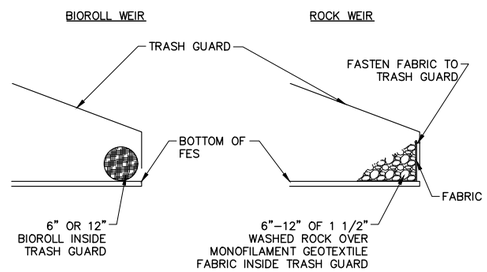
DESIGN GUIDELINES:
(SEE MNDOT SPEC. 2573.3C AND 3886)

NTS

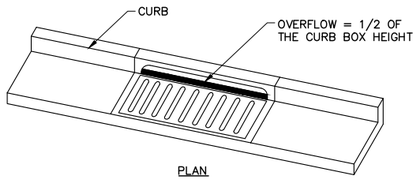
APRON OUTLET PROTECTION

Revised: Oct. 2011 | SEH Plate No. ERO-10



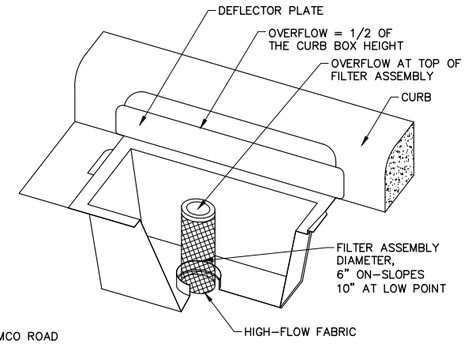


NTS



PLAN

WIMCO ROAD DRAIN – MODEL VARIES*
HIGH FLOW INLET PROTECTION CURB AND GUTTER MODEL OR APPROVED EQUAL.



* INSTALL WIMCO ROAD DRAIN OR APPROVED EQUAL. MODEL #'S TO BE COMPATIBLE WITH THE CASTINGS USED ON PROJECT.

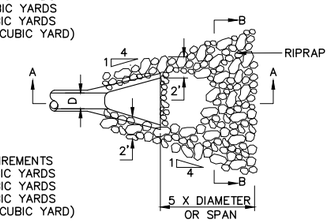
NTS

INLET PROTECTION

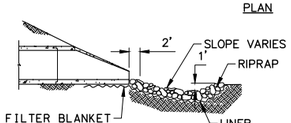
Revised: Oct. 2011 | SEH Plate No. ERO-04

CLASS II RIPRAP REQUIREMENTS
12" TO 24" 4 CUBIC YARDS
27" TO 33" 8 CUBIC YARDS
36" TO 48" 12 CUBIC YARDS
(APPROX. 1.4 TONS PER CUBIC YARD)

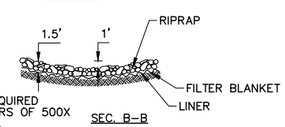
CLASS III RIPRAP* REQUIREMENTS
12" TO 24" 6 CUBIC YARDS
27" TO 33" 12 CUBIC YARDS
36" TO 48" 18 CUBIC YARDS
(APPROX. 1.4 TONS PER CUBIC YARD)



PLAN



SEC. A-A



NOTE: FILTER BLANKET REQUIRED UNDER RIPRAP OR 2 LAYERS OF 500X "MIRAFI" FABRIC OR EQUAL

SEC. B-B

* CLASS III RIPRAP, D50= 9 IN.

NTS

CLASS II AND III RIPRAP AT OUTLETS

Revised: Oct. 2011 | SEH Plate No. ERO-23

DRAWN BY: DJC
DESIGNER: DJC
CHECKED BY: GFA
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 UNDER THE LAWS OF THE STATE OF MINNESOTA.

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Date: 01.3.16 Lic. No. 26859

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3535 VADNAIS CENTER DR.
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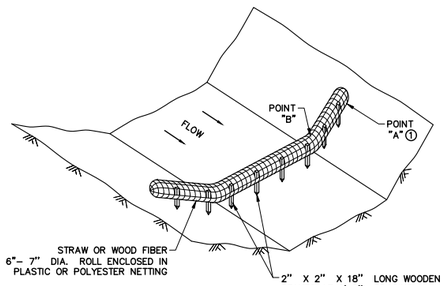
CANNON FALLS, MINNESOTA

DETAILS
ALEXANDER COURT

FILE NO. 140030

3 / 11



① POINT "A" SHALL BE A MINIMUM OF 6" HIGHER THAN POINT "B" TO ENSURE THAT WATER FLOWS OVER THE DIKE AND NOT AROUND THE ENDS.

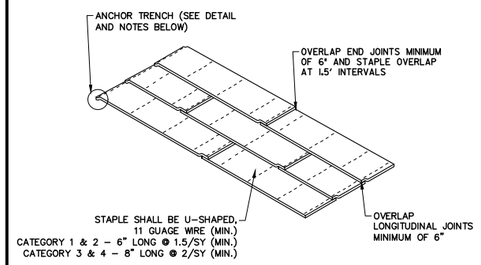
NTS

SEH

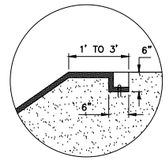
BIOROLL DITCH CHECK

Revised: Oct. 2011

SEH Plate No. ERO–05



ANCHOR TRENCH
1. DIG 6" X 6" TRENCH
2. LAY BLANKET IN TRENCH
3. STAPLE AT 1.5' INTERVALS
4. BACKFILL WITH NATURAL SOIL AND COMPACT
5. BLANKET LENGTH SHALL NOT EXCEED 100' WITHOUT AN ANCHOR TRENCH



NTS

SEH

EROSION CONTROL BLANKET INSTALLATION

Revised: Oct. 2011

SEH Plate No. ERO–11

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DESIGNER: DJC
CHECKED BY: GFA
DESIGN TEAM

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DETAILS
ALEXANDER COURT

FILE NO. 140030

4 / 11

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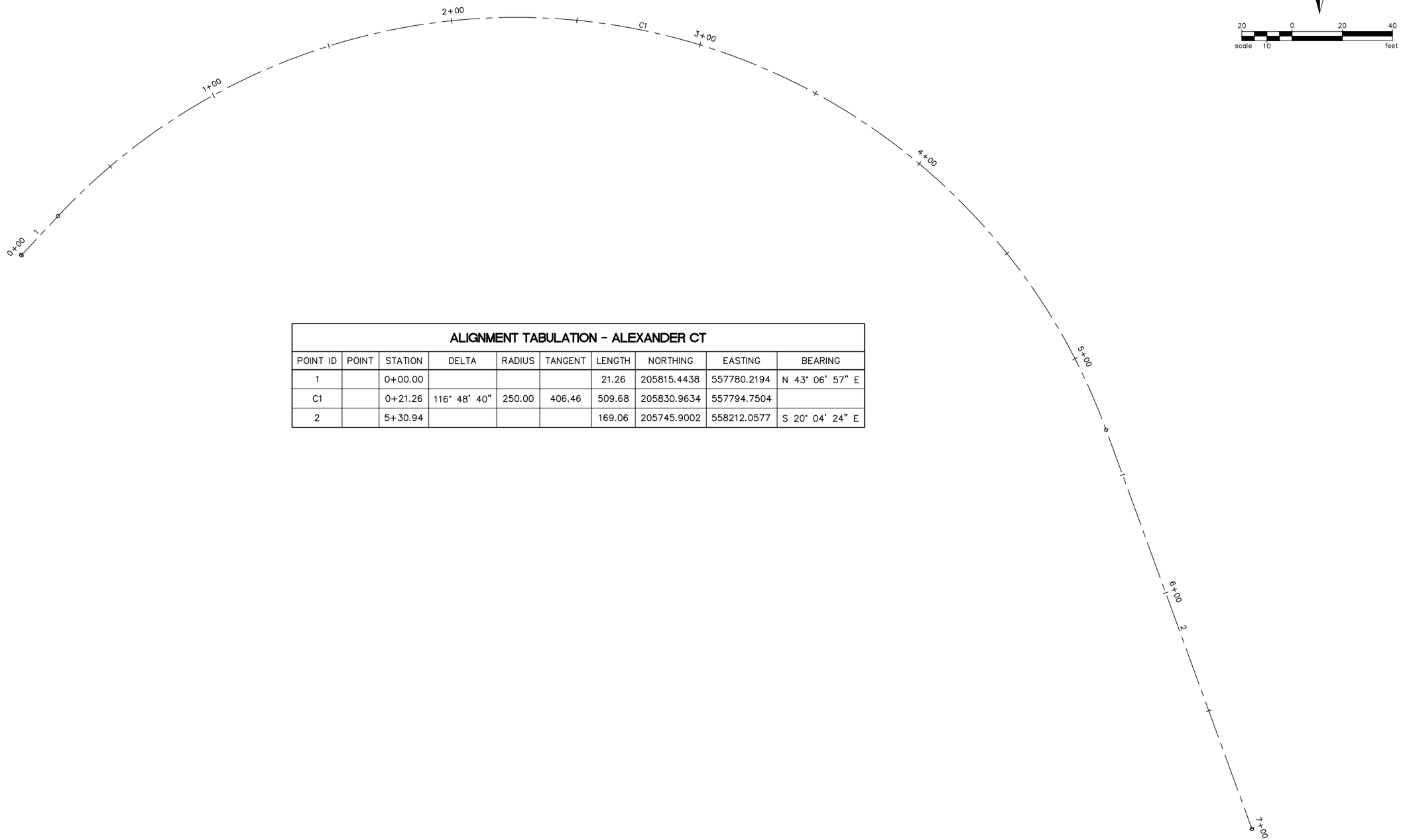

ALIGNMENT TABULATION - ALEXANDER CT

POINT ID	POINT	STATION	DELTA	RADIUS	TANGENT	LENGTH	NORTHING	EASTING	BEARING
1		0+00.00				21.26	205815.4438	557780.2194	N 43° 06' 57" E
C1		0+21.26	116° 48' 40"	250.00	406.46	509.68	205830.9634	557794.7504	
2		5+30.94				169.06	205745.9002	558212.0577	S 20° 04' 24" E

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DRAWN BY: DJC
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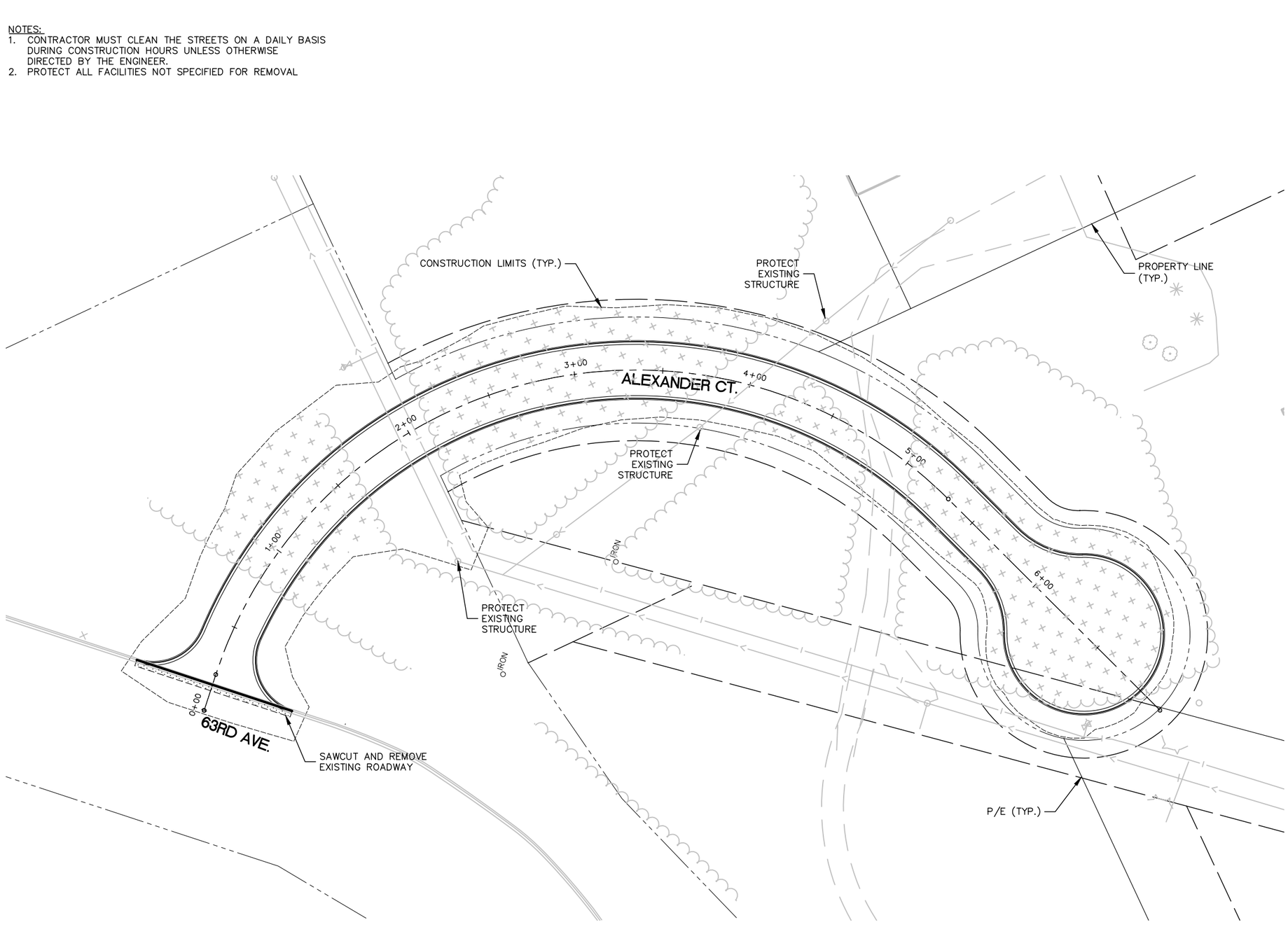
CANNON FALLS, MINNESOTA

ALIGNMENT PLAN
ALEXANDER COURT

FILE NO. 140030

5/11

NOTES:
1. CONTRACTOR MUST CLEAN THE STREETS ON A DAILY BASIS DURING CONSTRUCTION HOURS UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
2. PROTECT ALL FACILITIES NOT SPECIFIED FOR REMOVAL



30 0 30 60
scale 15 feet

LEGEND

- REMOVE CONCRETE CURB AND GUTTER
- SAWCUT BITUMINOUS PAVEMENT (FULL DEPTH)
- CLEAR AND GRUB (ACRE) (AS MARKED BY ENGINEER IN FIELD)
- REMOVE BITUMINOUS PAVEMENT

ALEXANDER COURT

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DRAWN BY: DJC
DESIGNER: DJC
CHECKED BY: GFA
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 UNDER THE LAWS OF THE STATE OF MINNESOTA.

GREGORY F. ANDERSON, PE
Date: 01.3.16 Lic. No. 26859

SEH
PHONE: 651.490.2000
3535 VADNAIS CENTER DR.
ST. PAUL, MN 55110-5196
www.sehinc.com

CANNON FALLS, MINNESOTA

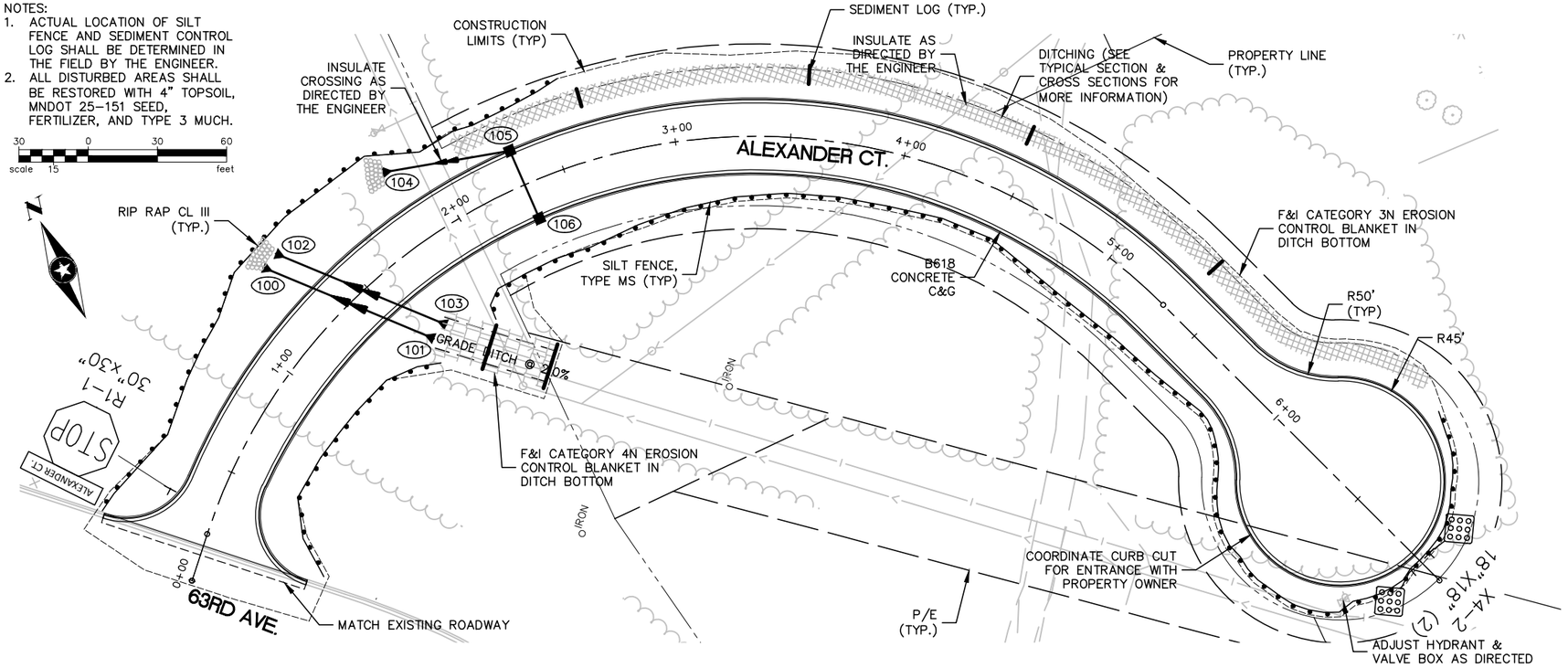
REMOVAL PLAN
ALEXANDER COURT

FILE NO. 140030

6/11

NOTES:
1. ACTUAL LOCATION OF SILT FENCE AND SEDIMENT CONTROL LOG SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.
2. ALL DISTURBED AREAS SHALL BE RESTORED WITH 4" TOPSOIL, MNDOT 25-151 SEED, FERTILIZER, AND TYPE 3 MUCH.

30 0 30 60
scale 15 feet



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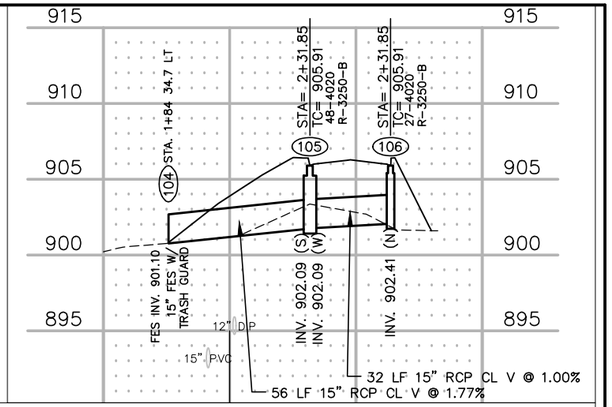
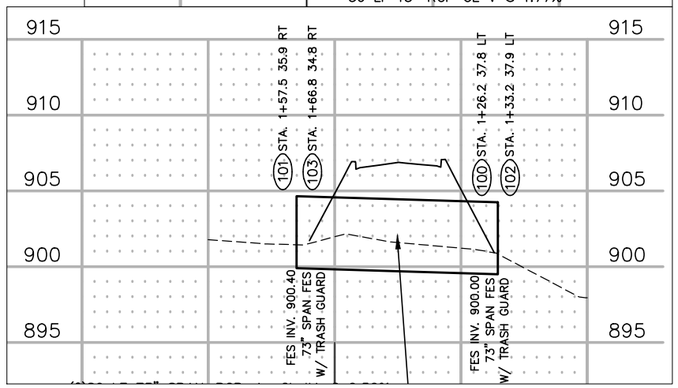
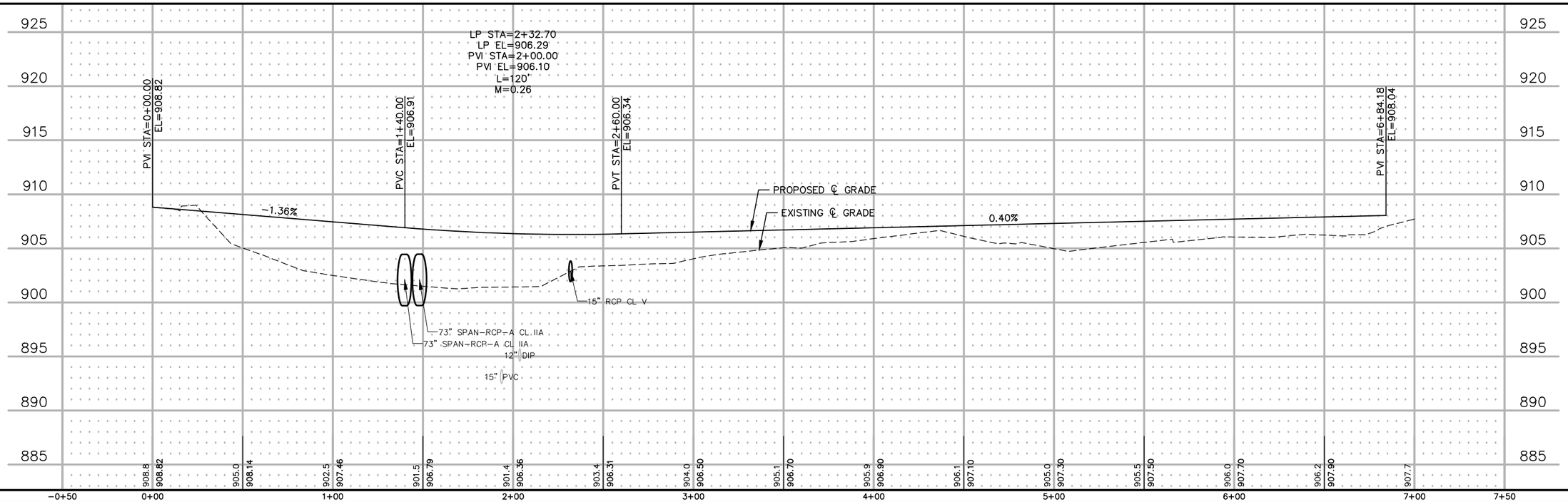
TNH END OF CUL-DE-SAC

ALEXANDER COURT







DRAWN BY: DJC				I HEREBY CERTIFY THAT THIS PLAN 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 MINNESOTA.	SEH PHONE: 651.490.2000 3535 VADNAIS CENTER DR. ST. PAUL, MN 55110-5196 www.sehinc.com	CANNON FALLS, MINNESOTA	CONSTRUCTION PLAN ALEXANDER COURT	FILE NO. 140030	7 / 11
DESIGNER: DJC				GREGORY F. ANDERSON, PE					
CHECKED BY: GFA				Date: 01.3.16 Lic. No. 26859					
DESIGN TEAM	NO.	BY	DATE	REVISIONS					

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STORM WATER POLLUTION PREVENTION PLAN (SWPPP)

SWPPP SUMMARY/OVERVIEW:
THIS STORM WATER POLLUTION PREVENTION PLAN (SWPPP) HAS BEEN DEVELOPED TO ADDRESS THE REQUIREMENTS OF NPDES PERMIT MN R100001, PART III, SUBPART A. THIS SWPPP INCLUDES A COMBINATION OF NARRATIVE AND PLAN SHEETS THAT DESCRIBE THE TEMPORARY AND PERMANENT STORM WATER MANAGEMENT PLAN FOR THE PROJECT.

PROJECT INFORMATION:

LOCATION:	CANNON FALLS, MN
LATITUDE/LONGITUDE::	44.4847, -92.9107
PROJECT DESCRIPTION:	ALEXANDER COURT
SOIL DISTURBING ACTIVITIES:	GRADING, CURB AND GUTTER, BITUMINOUS PAVEMENT, STORM SEWER AND RESTORATION

CONTACTS:

OWNER:	CITY OF CANNON FALLS
CONTACT:	TOM BERGESON, PUBLIC WORKS DIRECTOR
ADDRESS:	918 RIVER ROAD
PHONE:	507-263-4626
EMAIL:	TBERGESON@CI.CANNON-FALLS.MN.US

ENGINEER:	SHORT ELLIOT HENDRICKSON INC. (SEH)
CONTACT:	GREG ANDERSON
PHONE:	651.490.2000
EMAIL:	GANDERSON@SEHINC.COM
PROJECT NO.:	CANNO.129637

KNOWLEDGEABLE PERSON/CHAIN OF RESPONSIBILITY
THE CONTRACTOR SHALL IDENTIFY A PERSON KNOWLEDGEABLE AND EXPERIENCED IN THE APPLICATION OF EROSION PREVENTION AND SEDIMENT CONTROL BMPS WHO WILL OVERSEE THE IMPLEMENTATION OF THE SWPPP, INCLUDING: INSTALLATION, INSPECTION AND MAINTENANCE OF THE EROSION PREVENTION AND SEDIMENT CONTROL BMPS. THE GENERAL CONTRACTOR SHALL ATTACH CONTACT INFORMATION TO THE SWPPP PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITY.

CONTRACTOR: _____
CONTACT: _____
PHONE: _____
EMAIL: _____

THE CONTRACTOR SHALL ESTABLISH A CHAIN OF RESPONSIBILITY FOR ALL CONTRACTORS AND SUB-CONTRACTORS ON SITE TO ENSURE THE SWPPP IS BEING PROPERLY IMPLEMENTED AND MAINTAINED. THE CONTRACTOR SHALL PROVIDE THE CHAIN OF RESPONSIBILITY TO THE OWNER AND ATTACH TO THE SWPPP PRIOR TO ANY CONSTRUCTION ACTIVITY.

GENERAL SWPPP RESPONSIBILITIES:
THE CONTRACTOR SHALL KEEP THE SWPPP, INCLUDING ALL AMENDMENTS AND INSPECTION AND MAINTENANCE RECORDS ON SITE DURING CONSTRUCTION.

THE SWPPP WILL BE AMENDED AS NEEDED AND/OR AS REQUIRED BY PROVISIONS OF THE PERMIT. AMENDMENTS WILL BE APPROVED BY BOTH THE OWNER AND CONTRACTOR AND WILL BE ATTACHED OR OTHERWISE INCLUDED WITH THE SWPPP DOCUMENTS. THE SWPPP AMENDMENTS SHALL BE INITIATED, FACILITATED, AND PROCESSED BY THE CONTRACTOR. THE SWPPP AND AMENDMENTS SHALL BE KEPT ON SITE BY THE CONTRACTOR WHENEVER CONSTRUCTION ACTIVITY IS IN PROGRESS.

THE CONTRACTOR SHALL DOCUMENT AMENDMENTS TO THE SWPPP AS A RESULT OF INSPECTION(S) WITHIN 7 DAYS.

BOTH THE OWNER AND CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER TERMINATION AND/OR TRANSFER OF THE PERMIT.

LONG TERM OPERATION AND MAINTENANCE
THE OWNER WILL BE RESPONSIBLE OR WILL OTHERWISE IDENTIFY WHO WILL BE RESPONSIBLE FOR THE LONG TERM OPERATION AND MAINTENANCE OF THE PERMANENT STORMWATER MANAGEMENT SYSTEM(S).

TRAINING DOCUMENTATION:

PREPARER/DESIGNER OF SWPPP:	DUSTIN CESAFSKY
EMPLOYER:	SEH INC.
TRAINING AND DATE OBTAINED:	DESIGN OF CONSTRUCTION SWPP PLANS, JAN 2015
NAME OF INSTRUCTOR(S):	JOHN CHAPMAN, U OF M

THE CONTRACTOR (OPERATOR) SHALL ADD TO THE SWPPP TRAINING RECORDS FOR THE FOLLOWING PERSONNEL:

-INDIVIDUALS OVERSEEING THE IMPLEMENTATION OF, REVISING, AND AMENDING THE SWPPP
-INDIVIDUALS PERFORMING INSPECTIONS
-INDIVIDUALS PERFORMING OR SUPERVISING THE INSTALLATION, MAINTENANCE AND REPAIR OF BMPS

TRAINING MUST RELATE TO THE INDIVIDUAL'S JOB DUTIES AND RESPONSIBILITIES AND SHALL INCLUDE:

1) DATES OF TRAINING
2) NAME OF INSTRUCTORS
3) CONTENT AND HOURS OF TRAINING

THE CONTRACTOR SHALL ENSURE THAT THE INDIVIDUALS ARE TRAINED BY LOCAL, STATE, FEDERAL AGENCIES, PROFESSIONAL ORGANIZATIONS, OR OTHER ENTITIES WITH EXPERTISE IN EROSION PREVENTION, SEDIMENT CONTROL, PERIMETER CONTROL, PERMANENT STORMWATER MANAGEMENT AND THE MINNESOTA NPDES/SDS CONSTRUCTION STORMWATER PERMIT.

PROJECT SUMMARY:

TOTAL PROJECT AREA:	1.21 AC
TOTAL DISTURBED AREA:	1.21 AC
PRE-CONSTRUCTION IMPERVIOUS AREA:	0.00 AC
POST-CONSTRUCTION IMPERVIOUS AREA:	0.61 AC
IMPERVIOUS AREA ADDED:	0.61 AC

RECEIVING WATER(S) WITHIN ONE MILE FROM PROJECT BOUNDARIES:
(http://pca-gis02.pca.state.mn.us/CSW/index.html)

ID	NAME	TYPE	SPECIAL WATER CLASSIFICATION	ADDITIONAL BMP'S
07040002-526	LITTLE CANNON RIVER	STREAM	ESCHERICHIA COLI; TURBIDITY	C.1 AND C.2 OF APPENDIX A

DOES THE PROJECT DISCHARGE TO A CALCAREOUS FEN:	NO
IS THE PROJECT LOCATED IN A KARST AREA:	NO
PROJECTS LOCATED IN KARST AREA MEASURES IMPLEMENTED TO ENSURE PROTECTION OF DRINKING WATER SUPPLY: N/A	

SITE SOIL INFORMATION: (http://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx)
(SOIL INFORMATION PROVIDED IS FOR NPDES PERMIT INFORMATION ONLY. SOIL INFORMATION WAS OBTAINED FROM THE USGS WEBSITE. THE CONTRACTOR SHALL NOT RELY ON THIS SOIL INFORMATION FOR CONSTRUCTION PURPOSES.)

SOIL NAME:	HYDROLOGIC CLASSIFICATION:
SPARTA LOAMY SAND	A
UDIFLUVENTS LOAM	B

RELATED REVIEWS & PERMITS:
ENVIRONMENTAL, WETLAND, ENDANGERED OR THREATENED SPECIES, ARCHAEOLOGICAL, LOCAL, STATE, AND/OF FEDERAL REVIEWS/PERMITS:

TYPE OF PERMIT/REVIEW:	REQUIRED ACTION(S):
N/A	N/A

IMPLEMENTATION SEQUENCE:
THE CONTRACTOR SHALL COMPLY WITH THE FOLLOWING SEQUENCE.
THE ENGINEER MAY APPROVE ADJUSTMENTS TO THE SEQUENCE AS NEEDED.

1.	INSTALL ROCK CONSTRUCTION ENTRANCE(S)
2.	INSTALL PERIMETER CONTROL AND STABILIZE DOWN GRADIENT BOUNDARIES
3.	COMPLETE SITE GRADING
4.	INSTALL UTILITIES, STORM SEWER, INLET PROTECTION, CURB & GUTTER, PAVING
5.	COMPLETE FINAL GRADING AND STABILIZE DISTURBED AREAS
6.	AFTER CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED, REMOVE ACCUMULATED SEDIMENT, REMOVE BMPS, AND RE-STABILIZE ANY AREAS DISTURBED BY THEIR REMOVAL.

THE FOLLOWING DOCUMENTS ARE CONSIDERED PART OF THE SWPPP:
PLAN AND PROFILE PLAN SHEET: 7
EROSION AND SEDIMENT CONTROL PLAN SHEET: 7
TURF ESTABLISHMENT PLAN SHEETS: 7
STORM SEWER PLAN & PROFILE PLAN SHEETS: 7
GRADING PLAN SHEETS: 7
DETAIL PLAN SHEETS: 3-4
SWPPP NOTE AND DETAIL SHEETS: 8-9
PROJECT SPECIFICATIONS: PROJECT MANUAL
PROJECT BID FORM: PROJECT MANUAL

TEMPORARY SEDIMENT BASINS:
THE CONTRACTOR SHALL INSTALL TEMPORARY SEDIMENT BASIN(S) INDICATED ON PLANS AND REQUIRED BY THE NPDES CONSTRUCTION PERMIT.

TEMPORARY SEDIMENT BASIN OUTLETS SHALL BE CONSTRUCTED TO PREVENT SHORT-CIRCUITING AND PREVENT THE DISCHARGE OF FLOATING DEBRIS.

BASINS MUST HAVE THE ABILITY TO ALLOW COMPLETE DRAWDOWN, INCLUDE A STABILIZED EMERGENCY OVERFLOW, WITHDRAW WATER FROM THE SURFACE, AND PROVIDE ENERGY DISSIPATION AT THE OUTLET.

TEMPORARY SEDIMENT BASINS SHALL BE PROVIDED WITH ENERGY DISSIPATION AT ANY BASIN OUTLET TO PREVENT SOIL EROSION.

SEDIMENT BASINS MUST BE SITUATED OUTSIDE OF SURFACE WATERS AND ANY BUFFER ZONES, AND MUST BE DESIGNED TO AVOID THE DRAINING WATER FROM WETLANDS.

TEMPORARY SEDIMENT BASINS SHALL BE CONSTRUCTED AND MADE OPERATIONAL CONCURRENT OR PRIOR TO SOIL DISTURBANCE THAT IS UPGRADIENT AND CONTRIBUTES RUNOFF TO THE BASIN.

PERMANENT STORMWATER MANAGEMENT SYSTEM
PERMANENT STORMWATER MANAGEMENT SYSTEM IS DESIGNED TO MEET THE REQUIREMENTS OF NPDES GENERAL STORMWATER PERMIT FOR CONSTRUCTION ACTIVITY.

NEW (ADDED) IMPERVIOUS:		0.61 AC
WATER QUALITY VOLUME (WQV):		N/A AF
PERMANENT MANAGEMENT SYSTEM:	WQV INFILTRATED	WQV TREATED (NOT INFILTRATED)
N/A	N/A AF	N/A AF
TOTAL WQV INFILTRATED/TREATED		N/A AF
IF NOT INFILTRATING TOTAL WQV - DOCUMENT REASON FOR INFEASIBILITY:		
N/A		

CONTRACTOR SHALL ENSURE INFILTRATION/FILTRATION SYSTEMS ARE NOT BE EXCAVATED TO FINAL GRADE UNTIL THE CONTRIBUTING DRAINAGE AREA HAS BEEN CONSTRUCTED AND FULLY STABILIZED.

CONTRACTOR SHALL IMPLEMENT RIGOROUS EROSION PREVENTION AND SEDIMENT CONTROLS BMPS SHALL BE USED TO KEEP SEDIMENT AND RUNOFF COMPLETELY AWAY FROM THE INFILTRATION/FILTRATION AREA(S).

CONTRACTOR SHALL STAKE OFF AND MARK INFILTRATION/FILTRATION AREA(S) TO AVOID SOIL COMPACTION.

THE CONTRACTOR SHALL COMPLETE ON-SITE TESTING TO VERIFY INFILTRATION/FILTRATION RATES AFTER ALL CONSTRUCTION IS COMPLETE.

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DRAWN BY: DJC
DESIGNER: DJC
CHECKED BY: GFA
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 UNDER THE LAWS OF THE STATE OF MINNESOTA.

GREGORY F. ANDERSON, PE
Date: 01.3.16 Lic. No. 26859

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CANNON FALLS, MINNESOTA

SWPP PLAN
ALEXANDER COURT

FILE NO. 140030

EROSION PREVENTION MEASURES AND TIMING:
THE CONTRACTOR IS RESPONSIBLE FOR ALL EROSION PREVENTION MEASURES FOR THE PROJECT.

EROSION PREVENTION MEASURES SHOWN ON PLANS ARE THE ABSOLUTE MINIMUM REQUIREMENTS. THE CONTRACTOR SHALL IMPLEMENT ADDITIONAL EROSION PREVENTION MEASURES AS NECESSARY TO PROPERLY MANAGE THE PROJECT AREA.

THE CONTRACTOR SHALL PLAN AND IMPLEMENT APPROPRIATE CONSTRUCTION PRACTICES AND CONSTRUCTION PHASING TO MINIMIZE EROSION AND RETAIN VEGETATION WHENEVER POSSIBLE.

THE CONTRACTOR SHALL DELINEATE AREAS NOT TO BE DISTURBED AND/OR TO BE PROTECTED WITH FLAGS, STAKES, SIGNS, SILT FENCE, OR OTHER MEANS NECESSARY TO PROTECT THESE AREAS BEFORE CONSTRUCTION BEGINS ON THE SITE.

THE CONTRACTOR SHALL STABILIZE ALL EXPOSED SOILS IMMEDIATELY TO LIMIT SOIL EROSION. IN NO CASE SHALL ANY EXPOSED AREAS, INCLUDING STOCK PILES, HAVE EXPOSED SOILS FOR MORE THAN 7 DAYS WITHOUT PROVIDING TEMPORARY OR PERMANENT STABILIZATION.

DRAINAGE PATHS, DITCHES, AND/OR SWALES SHALL HAVE TEMPORARY OR PERMANENT STABILIZATION WITHIN 24 HOURS OF CONNECTING TO A SURFACE WATER OR 24 HOURS AFTER CONSTRUCTION ACTIVITY IN THE DITCH/SWALE HAS TEMPORARILY OR PERMANENTLY CEASED.

THE CONTRACTOR SHALL COMPLETE THE STABILIZATION OF ALL EXPOSED SOILS WITHIN 24 HOURS THAT LIE WITHIN 200 FEET OF PUBLIC WATERS PROMULGATED "WORK IN WATER RESTRICTIONS" BY THE MN DNR DURING SPECIFIED FISH SPAWNING TIMES.

THE CONTRACTOR SHALL IMPLEMENT STORMWATER CONVEYANCE CHANNELS WHEN APPROPRIATE TO ROUTE WATER AROUND UNSTABILIZED AREAS ON SITE TO REDUCE EROSION.

THE CONTRACTOR SHALL IMPLEMENT EROSION CONTROL BMPS AND VELOCITY DISSIPATION DEVICES ALONG CONSTRUCTED STORMWATER CONVEYANCE CHANNELS AND OUTLETS.

THE CONTRACTOR SHALL STABILIZE TEMPORARY AND/OR PERMANENT DRAINAGE DITCHES OR SWALES WITHIN 200 LINEAL FEET FROM PROPERTY EDGE, OR DISCHARGE POINT(S) WITHIN 24 HOURS AFTER CONNECTING TO A SURFACE WATER OR PROPERTY EDGE.

TEMPORARY OR PERMANENT DITCHES OR SWALES USED AS A SEDIMENT CONTAINMENT SYSTEM DURING CONSTRUCTION MUST BE STABILIZED WITHIN 24 HOURS AFTER NO LONGER BEING USED AS A SEDIMENT CONTAINMENT SYSTEM.

THE CONTRACTOR SHALL NOT UTILIZE HYDROMULCH, TACKIFIER, POLYACRYLAMIDE OR SIMILIAR EROSION PREVENTION PRACTICES AS A FORM OF STABILIZATION FOR TEMPORARY OR PERMANENT DRAINAGE DITCHES OR SWALES.

THE CONTRACTOR SHALL ENSURE PIPE OUTLETS HAVE TEMPORARY OR PERMANENT ENERGY DISSIPATION WITHIN 24 HOURS OF CONNECTION TO A SURFACE WATER.

THE CONTRACTOR SHALL DIRECT DISCHARGES FROM BMPS TO VEGETATED AREAS TO INCREASE SEDIMENT REMOVAL AND MAXIMIZE STORMWATER INFILTRATION. VELOCITY DISSIPATION DEVICES MUST BE USED TO PREVENT EROSION WHEN DIRECTING STORMWATER TO VEGETATED AREAS.

SEDIMENT CONTROL MEASURES AND TIMING:
THE CONTRACTOR IS RESPONSIBLE FOR ALL SEDIMENT CONTROL MEASURES FOR THE PROJECT.

SEDIMENT CONTROL MEASURES SHOWN ON PLANS ARE THE ABSOLUTE MINIMUM REQUIREMENTS. THE CONTRACTOR SHALL IMPLEMENT ADDITIONAL SEDIMENT CONTROL MEASURES AS NECESSARY TO PROPERLY MANAGE THE PROJECT AREA.

THE CONTRACTOR SHALL ENSURE SEDIMENT CONTROL MEASURES ARE ESTABLISHED ON ALL DOWN GRADIENT PERIMETERS BEFORE ANY UPGRADIENT LAND DISTURBING ACTIVITIES BEGIN. THESE MEASURES SHALL REMAIN IN PLACE UNTIL FINAL STABILIZATION HAS BEEN ESTABLISHED.

THE CONTRACTOR SHALL ENSURE THERE ARE NO UNBROKEN SLOPE LENGTH GREATER THAN 75 FEET ON SLOPES 3:1 OR STEEPER.

THE CONTRACTOR SHALL ENSURE SEDIMENT CONTROL PRACTICES REMOVED OR ADJUSTED FOR SHORT-TERM ACTIVITIES BE RE-INSTALLED IMMEDIATELY AFTER THE SHORT-TERM ACTIVITY HAS BEEN COMPLETED. SEDIMENT CONTROL PRACTICES MUST BE REINSTALLED BEFORE THE NEXT PRECIPITATION EVENT EVEN IF THE SHORT-TERM ACTIVITY IS NOT COMPLETE.

THE CONTRACTOR SHALL ENSURE STORM DRAIN INLETS AND CULVERT INLETS ARE PROTECTED BY APPROPRIATE BMPS DURING CONSTRUCTION UNTIL ALL SOURCES WITH POTENTIAL FOR DISCHARGING TO THE INLET HAS BEEN STABILIZED. INLET AND CULVERT PROTECTION SHALL CONFORM TO THE 2014 MNDOT SPECIFICATIONS 2573.

THE CONTRACTOR SHALL ENSURE STOCK PILES ARE PROVIDED WITH AN EFFECTIVE SEDIMENT PERIMETER CONTROL AND STOCK PILES SHALL NOT BE PLACED IN ANY TYPE OF SURFACE WATER OR NATURAL BUFFER.

THE CONTRACTOR SHALL INSTALL PERIMETER CONTROL AROUND ALL STAGING AREAS, BORROW PITS, AND AREAS CONSIDERED ENVIRONMENTALLY SENSITIVE.

THE CONTRACTOR SHALL ENSURE VEHICLE TRACKING BE MINIMIZED WITH EFFECTIVE BMPS. WHERE THE BMPS FAIL TO PREVENT SEDIMENT FROM TRACKING ONTO STREETS THE CONTRACTOR SHALL CONDUCT STREET SWEEPING TO REMOVE ALL TRACKED SEDIMENT.

THE CONTRACTOR SHALL IMPLEMENT CONSTRUCTION PRACTICES TO MINIMIZE SOIL COMPACTION.

THE CONTRACTOR SHALL ENSURE ALL CONSTRUCTION ACTIVITY REMAIN WITHIN PROJECT LIMITS AND THAT ALL IDENTIFIED RECEIVING WATER BUFFERS ARE MAINTAINED.

THE CONTRACTOR SHALL NOT UTILIZE SEDIMENT CONTROL CHEMICALS ON SITE.

EROSION PREVENTION BMP SUMMARY:
SEE EROSION AND SEDIMENT CONTROL PLAN SHEET AND BID FORM FOR TYPE, LOCATION, AND QUANTITY OF EROSION PREVENTION BMPS.

SEDIMENT CONTROL BMP SUMMARY:
SEE EROSION AND SEDIMENT CONTROL PLAN SHEETS AND BID FORM FOR TYPE, LOCATION, AND QUANTITY OF SEDIMENT CONTROL BMPS.

DEWATERING AND BASIN DRAINING ACTIVITIES:
THE CONTRACTOR IS RESPONSIBLE FOR ADHERING TO ALL DEWATERING AND SURFACE DRAINAGE REGULATIONS.

WATER FROM DEWATERING ACTIVITIES SHALL DISCHARGE TO A TEMPORARY AND/OR PERMANENT SEDIMENT BASIN.

IF WATER CANNOT BE DISCHARGED TO A SEDIMENTATION BASIN, IT SHALL BE TREATED WITH OTHER APPROPRIATE BMPS, TO EFFECTIVELY REMOVE SEDIMENT.

DISCHARGE THAT CONTAINS OIL OR GREASE MUST BE TREATED WITH AN OIL-WATER SEPARATOR OR SUITABLE FILTRATION DEVICE PRIOR TO DISCHARGE.

DISCHARGE POINTS SHALL BE PROTECTED FROM EROSION AND SCOUR.

DISCHARGE WATER SHALL BE DISPERSED OVER AN ACCEPTED ENERGY DISSIPATION MEASURE.

WATER FROM DEWATERING SHALL BE DISCHARGED IN A MANNER THAN DOES NOT CAUSE NUISANCE CONDITIONS, EROSION, OR INUNDATION OF WETLANDS.

BACKWASH WATER USED FOR FILTERING SHALL BE HAULED AWAY FOR DISPOSAL, RETURNED TO THE BEGINNING OF TREATMENT PROCESS, OR INCORPORATED INTO THE SITE IN A MANNER THAT DOES NOT CAUSE EROSION. THE CONTRACTOR SHALL REPLACE AND CLEAN FILTER MEDIAS USED IN DEWATERING DEVICES WHEN REQUIRED TO MAINTAIN ADEQUATE FUNCTION.

INSPECTION AND MAINTENANCE:
ALL INSPECTIONS, MAINTENANCE, REPAIRS, REPLACEMENTS, AND REMOVAL OF BMPS IS TO BE CONSIDERED INCIDENTAL TO THE BMP BID ITEMS.

THE CONTRACTOR IS RESPONSIBLE FOR COMPLETING SITE INSPECTIONS, AND BMP MAINTENANCE TO ENSURE COMPLIANCE WITH THE PERMIT REQUIREMENTS.

THE CONTRACTOR SHALL INSPECT THE CONSTRUCTION SITE ONCE EVERY 7 DAYS DURING ACTIVE CONSTRUCTION AND WITHIN 24 HOURS AFTER A RAINFALL EVENT GREATER THAN 0.5 INCHES IN 24 HOURS.

THE CONTRACTOR SHALL DOCUMENT A WRITTEN SUMMARY OF ALL INSPECTIONS AND MAINTENANCE ACTIVITIES CONDUCTED WITHIN 24 HOURS OF OCCURRENCE. RECORDS OF EACH ACTIVITY SHALL INCLUDE THE FOLLOWING:

-DATE AND TIME OF INSPECTIONS;
-NAME OF PERSON(S) CONDUCTING INSPECTION;
-FINDINGS AND RECOMMENDATIONS FOR CORRECTIVE ACTIONS IF NECESSARY;
-CORRECTIVE ACTIONS TAKEN;
-DATE AND AMOUNT OF RAINFALL EVENTS;
-POINTS OF DISCHARGE OBSERVED DURING INSPECTION AND DESCRIPTION OF THE DISCHARGE
-AMENDMENTS MADE TO THE SWPPP.

THE CONTRACTOR SHALL SUBMIT A COPY OF THE WRITTEN INSPECTIONS TO THE ENGINEER AND OWNER ON A MONTHLY BASIS. IF MONTHLY INSPECTION REPORTS ARE NOT SUBMITTED, MONTHLY PAYMENTS MAY BE HELD.

THE CONTRACTOR SHALL KEEP THE SWPPP, ALL INSPECTION REPORTS, AND AMENDMENTS ONSITE. THE CONTRACTOR SHALL DESIGNATE A SPECIFIC ONSITE LOCATION TO KEEP THE RECORDS.

THE CONTRACTOR IS RESPONSIBLE FOR THE OPERATION AND MAINTENANCE OF TEMPORARY AND PERMANENT WATER QUALITY BMP'S, AS WELL AS EROSION AND SEDIMENT CONTROL BMP'S.

THE CONTRACTOR SHALL INSPECT EROSION PREVENTION AND SEDIMENTATION CONTROL BMPS TO ENSURE INTEGRITY AND EFFECTIVENESS. ALL NONFUNCTIONAL BMPS SHALL BE REPAIRED, REPLACED, OR SUPPLEMENTED WITH FUNCTIONAL BMPS WITHIN 24 HOURS OF FINDING. THE CONTRACTOR SHALL INVESTIGATE AND COMPLY WITH THE FOLLOWING INSPECTION AND MAINTENANCE REQUIREMENTS:

PERIMETER CONTROL DEVICES, INCLUDING SILT FENCE SHALL BE REPAIRED, OR REPLACED, WHEN THEY BECOME NONFUNCTIONAL OR THE SEDIMENT REACHES 1/3 OF THE DEVICE HEIGHT. THESE REPAIRS SHALL BE MADE WITHIN 24 HOURS OF DISCOVERY.

TEMPORARY AND PERMANENT SEDIMENT BASINS SHALL BE DRAINED AND THE SEDIMENT REMOVED WHEN THE DEPTH OF SEDIMENT COLLECTED IN THE BASIN REACHES ½ THE STORAGE VOLUME. DRAINAGE AND REMOVAL MUST BE COMPLETED WITHIN 72 HOURS OF DISCOVERY.

SURFACE WATERS, INCLUDING DRAINAGE DITCHES AND CONVEYANCE SYSTEMS, MUST BE INSPECTED FOR EVIDENCE OF EROSION AND SEDIMENT DEPOSITION. THE CONTRACTOR SHALL REMOVE ALL DELTAS AND SEDIMENT DEPOSITED IN SURFACE WATERS, INCLUDING DRAINAGE WAYS, CATCH BASINS, AND OTHER DRAINAGE SYSTEMS. THE CONTRACTOR SHALL RE-STABLIZE THE AREAS WHERE SEDIMENT REMOVAL RESULTS IN EXPOSED SOIL. REMOVAL AND STABILIZATION MUST TAKE PLACE WITHIN 7 DAYS OF DISCOVERY, UNLESS PRECLUDED BY LEGAL, REGULATORY, OR PHYSICAL CONSTRAINTS. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING ALL LOCAL, REGIONAL, STATE AND FEDERAL AUTHORITIES AND OBTAIN ANY APPLICABLE PERMITS, PRIOR TO CONDUCTING ANY WORK IN SURFACE WATERS.

CONSTRUCTION SITE VEHICLE EXIT LOCATIONS SHALL BE INSPECTED DAILY FOR EVIDENCE OF SEDIMENT TRACKING ONTO PAVED SURFACES. TRACKED SEDIMENT MUST BE REMOVED FROM ALL PAVED SURFACES WITHIN 24 HOURS OF DISCOVERY.

IF SEDIMENT ESCAPES THE CONSTRUCTION SITE, OFF-SITE ACCUMULATIONS OF SEDIMENT MUST BE REMOVED IN A MANOR AND AT A FREQUENCY SUFFICIENT TO MINIMIZE OFF-SITE IMPACTS.

INFILTRATION AREAS SHALL BE INSPECTED FOR SIGNS OF SEDIMENTATION AND COMPACTION.

POLLUTION PREVENTION MANAGEMENT MEASURES:
THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL POLLUTION PREVENTION MANAGEMENT MEASURES.

ALL POLLUTION PREVENTION MEASURES ARE CONSIDERED INCIDENTAL TO THE MOBILIZATION BID ITEM, UNLESS OTHERWISE NOTED.

THE CONTRACTOR IS RESPONSIBLE FOR INFORMING ALL VISITORS AND/OR PERSONNEL ON-SITE OF THE POLLUTION PREVENTION MANAGEMENT MEASURES. POLLUTION PREVENTION MANAGEMENT MEASURES INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING:

THE CONTRACTOR IS RESPONSIBLE FOR THE PROPER DISPOSAL, IN COMPLIANCE WITH MPCA DISPOSAL REQUIREMENTS, OF ALL HAZARDOUS MATERIALS, SOLID WASTE, AND PRODUCTS ON-SITE.

THE CONTRACTOR SHALL ENSURE BUILDING PRODUCTS THAT HAVE THE POTENTIAL TO LEACH POLLUTANTS ARE KEPT UNDER COVER TO PREVENT THE DISCHARGE OF POLLUTANTS.

THE CONTRACTOR SHALL ENSURE PESTICIDES, HERBICIDES, INSECTICIDES, FERTILIZERS, TREATMENT CHEMICALS, AND LANDSCAPE MATERIALS ARE COVERED TO PREVENT THE DISCHARGE OF POLLUTANTS.

THE CONTRACTOR SHALL ENSURE HAZARDOUS MATERIALS AND TOXIC WASTE IS PROPERLY STORED IN SEALED CONTAINERS TO PREVENT SPILLS, LEAKS, OR OTHER DISCHARGE. STORAGE AND DISPOSAL OF HAZARDOUS WASTE OR HAZARDOUS MATERIALS MUST BE IN COMPLIANCE WITH MINN. R. CH. 7045 INCLUDING SECONDARY CONTAINMENT AS APPLICABLE.

THE CONTRACTOR SHALL ENSURE ASPHALT SUBSTANCES USED ON-SITE SHALL ARE APPLIED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

THE CONTRACTOR SHALL ENSURE PAINT CONTAINERS AND CURING COMPOUNDS SHALL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT AND/OR CURING COMPOUNDS SHALL NOT BE DISCHARGED INTO THE STORM SEWER SYSTEM AND SHALL BE PROPERLY DISPOSED OF ACCORDING TO MANUFACTURER'S INSTRUCTION.

THE CONTRACTOR SHALL ENSURE SOLID WASTE BE STORED, COLLECTED AND DISPOSED OF PROPERLY IN COMPLIANCE WITH MINN. R. CH. 7035.

THE CONTRACTOR SHALL ENSURE POTABLE TOILETS ARE POSITIONED SO THAT THEY ARE SECURE AND WILL NOT BE TIPPED OR KNOCKED OVER. SANITARY WASTE MUST BE DISPOSED OF PROPERLY IN ACCORDANCE WITH MINN. R, CH. 7041.

THE CONTRACTOR SHALL MONITOR ALL VEHICLES ON-SITE FOR LEAKS AND RECEIVE REGULAR PREVENTION MAINTENANCE TO REDUCE THE CHANCE OF LEEKAGE.

EXTERNAL WASHING OF TRUCKS AND OTHER CONSTRUCTION VEHICLES AND ENGINE DEGREASING ARE PROHIBITED AT THE CONSTRUCTION SITE.

THE CONTRACTOR SHALL ENSURE WASHOUT WASTE MUST NOT CONTACT THE GROUND AND SHALL BE PROPERLY DISPOSED OF IN COMPLIANCE WITH MPCA RULES.

THE CONTRACTOR SHALL INCLUDE SPILL KITS WITH ALL FUELING SOURCES AND MAINTENANCE ACTIVITIES. SECONDARY CONTAINMENT MEASURES SHALL BE INSTALLED AND MAINTAINED BY THE CONTRACTOR.

THE CONTRACTOR SHALL ENSURE SPILLS ARE CONTAINED AND CLEANED UP IMMEDIATELY UPON DISCOVERY. SPILLS LARGE ENOUGH TO REACH THE STORM WATER CONVEYANCE SYSTEM SHALL BE REPORTED TO THE MINNESOTA DUTY OFFICER AT 1.800.422.0798.

FINAL STABILIZATION:
THE CONTRACTOR IS RESPONSIBLE FOR ENSURING FINAL STABILIZATION OF THE ENTIRE SITE. FINAL STABILIZATION INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING:

ALL SOIL DISTURBING ACTIVITIES HAVE BEEN COMPLETED.

ALL EXPOSED SOILS HAVE BEEN UNIFORMLY STABILIZED WITH AT LEAST 70% VEGETATION COVERAGE.

PERMANENT STORM WATER MANAGEMENT SYSTEM(S) ARE CONSTRUCTED AND ARE OPERATING AS DESIGNED.

ALL DRAINAGE DITCHES, PONDS, AND ALL STORM WATER CONVEYANCE SYSTEMS HAVE BEEN CLEARED OF SEDIMENT AND STABILIZED WITH PERMANENT COVER TO PRECLUDE EROSION.

ALL TEMPORARY BMPS HAVE BEEN REMOVED AND PROPERLY DISPOSED OF.

IN RESIDENTIAL CONSTRUCTION, INDIVIDUAL LOTS ARE CONSIDERED FINALLY STABILIZED IF THE STRUCTURE(S) ARE FINISHED AND TEMPORARY EROSION PROTECTION AND DOWNGRADIENT PERIMETER CONTROL HAS BEEN COMPLETED, THE RESIDENCE HAS BEEN SOLD TO THE HOMEOWNER, AND THE HOMEOWNER HAS BEEN PROVIDED A "HOMEOWNER FACT SHEET" BY THE CONTRACTOR TO INFORM THE HOMEOWNER OF THE NEEDS FOR, AND BENEFITS OF, PERMANENT COVER.

AGRICULTURAL LAND DISTURBED HAS BEEN RETURNED TO ITS PRECONSTRUCTION AGRICULTURAL USE.

FINAL STABILIZATION SHALL BE PREFORMED IN ACCORDANCE WITH MNDOT 2014 SPECIFICATION 2575.

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DRAWN BY: DJC
DESIGNER: DJC
CHECKED BY: GFA
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 UNDER THE LAWS OF THE STATE OF MINNESOTA.

GREGORY F. ANDERSON, PE
Date: 01.3.16 Lic. No. 26859

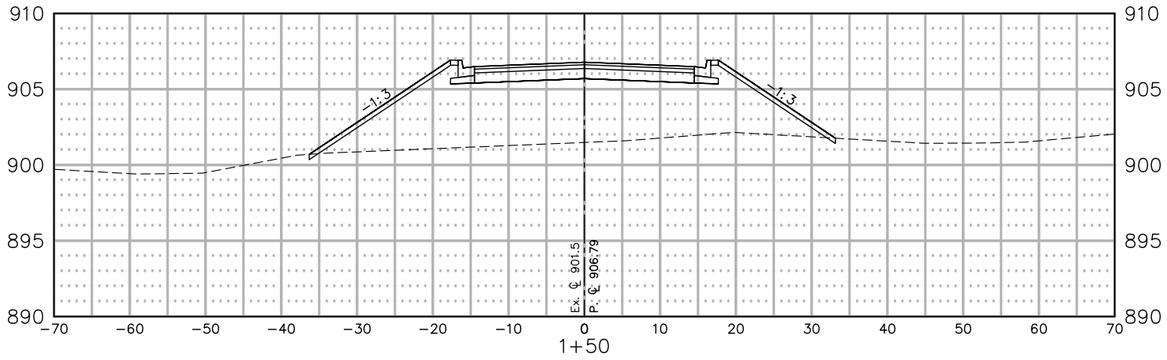
SEH
PHONE: 651.490.2000
3535 VADNAIS CENTER DR.
ST. PAUL, MN 55110-5196
www.sehinc.com

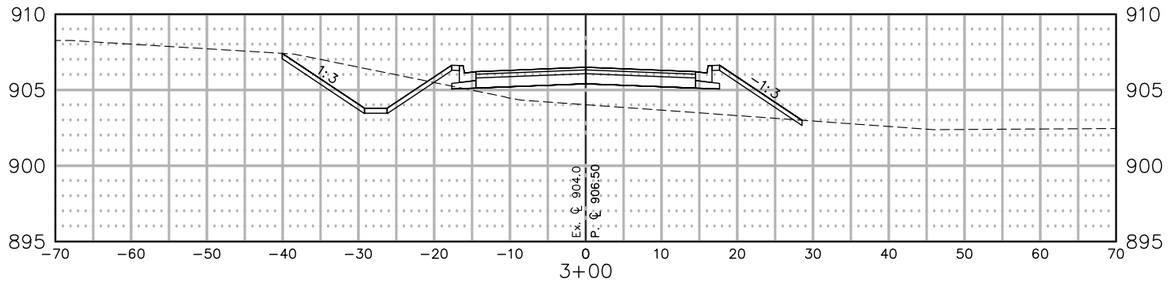
CANNON FALLS, MINNESOTA

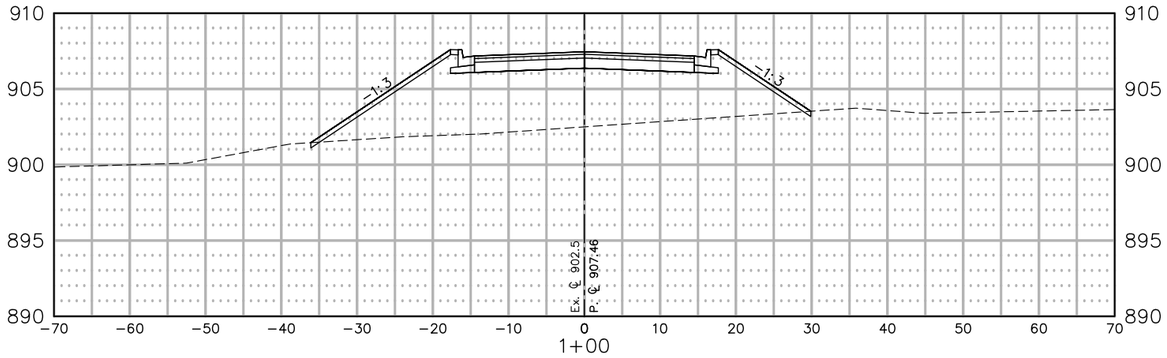
SWPP PLAN
ALEXANDER COURT

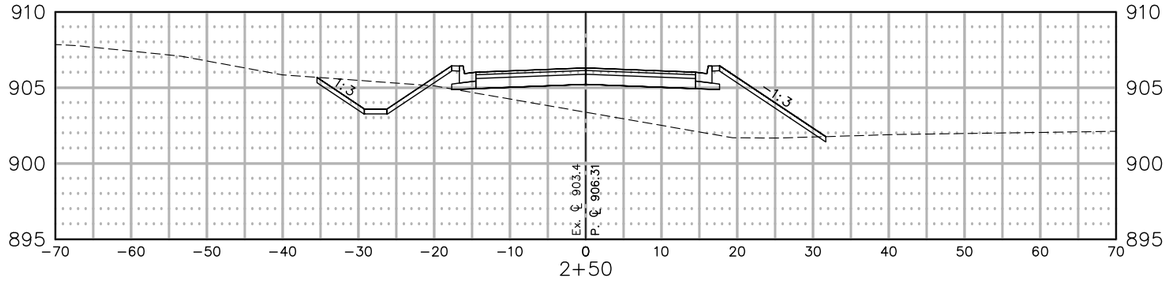
FILE NO. 140030

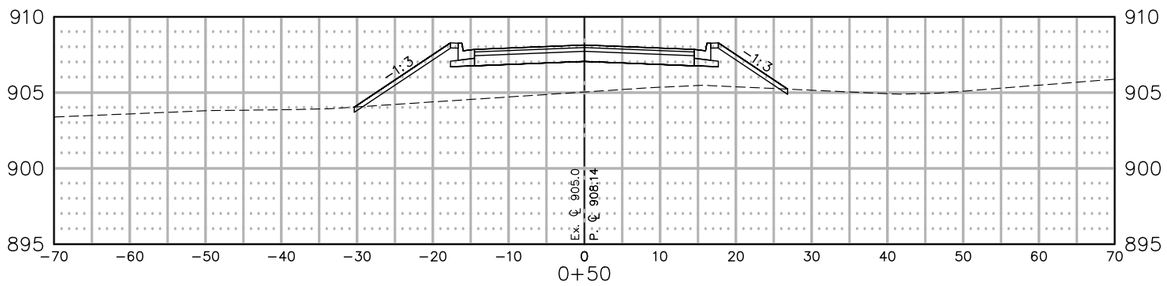
9/11

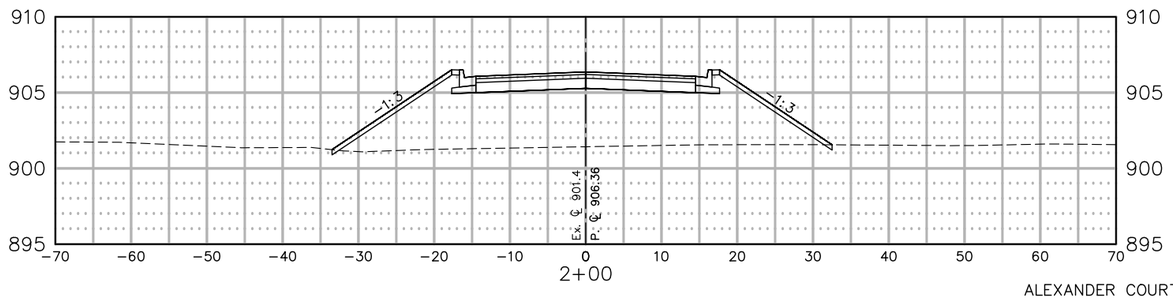












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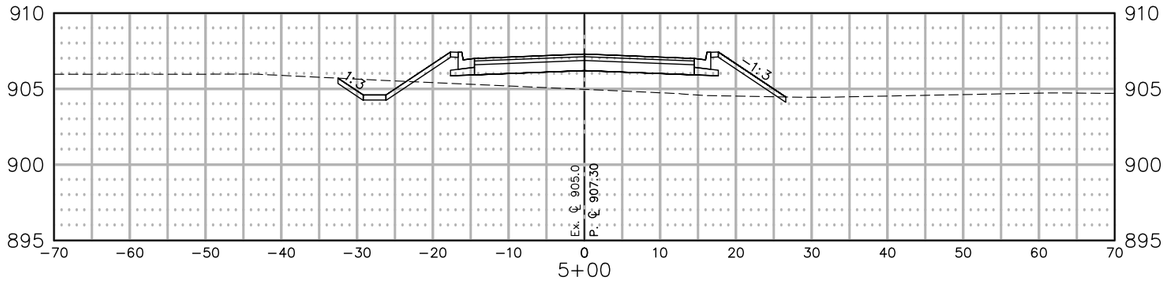

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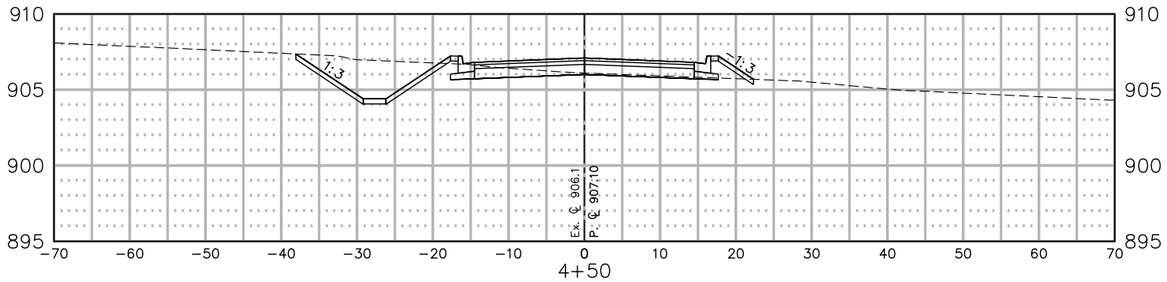

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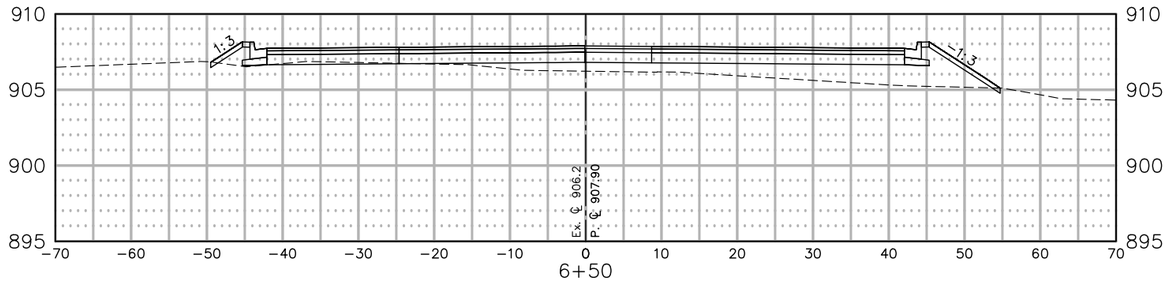

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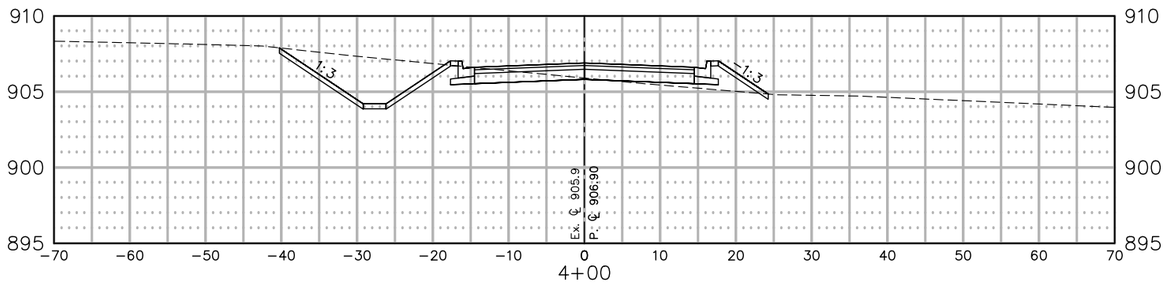

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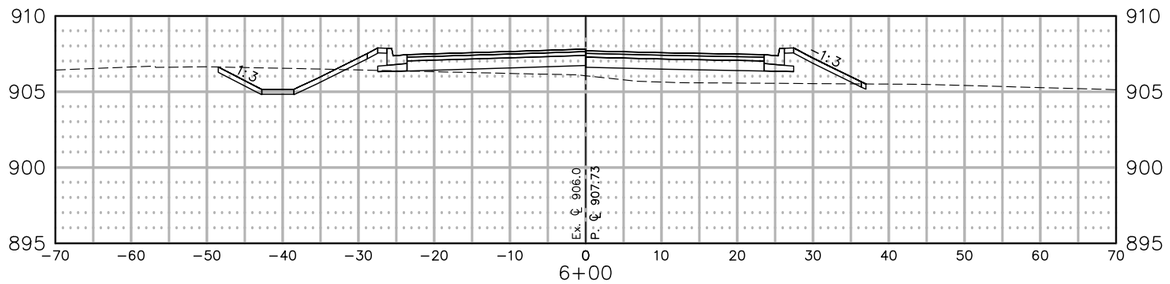

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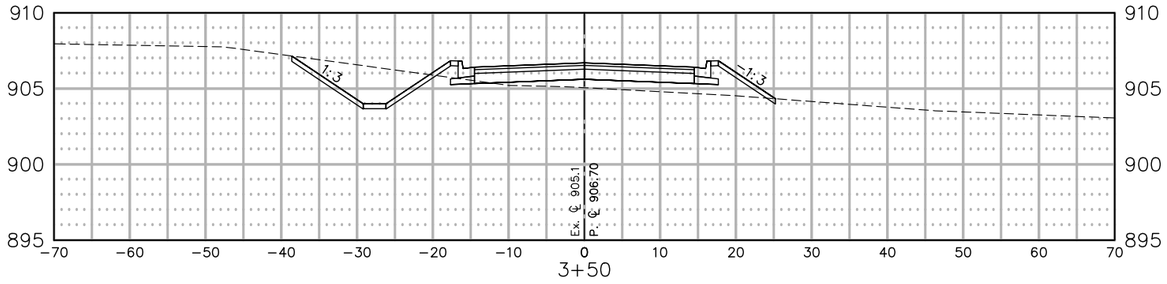

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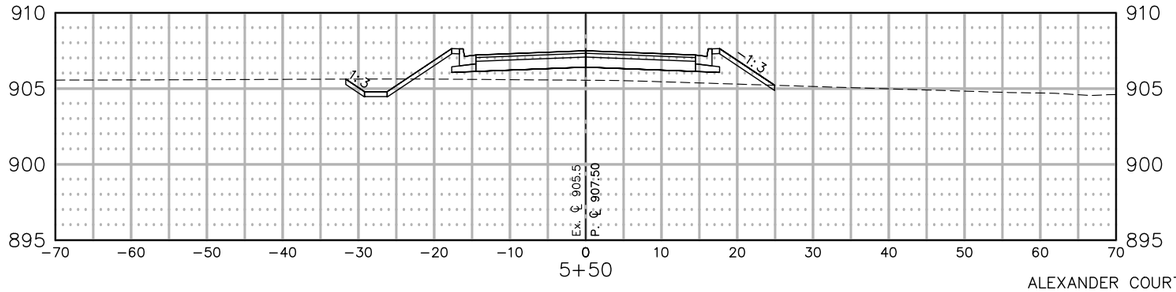

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