

New East Bethel Temple Wat Lao

FOR

SITE, EXISTING CONDITIONS, GRADING, EROSION CONTROL, SWPPP, AND UTILITIES

FOR

4722 217th Avenue NE, East Bethel, MN 55011



2 Existing Site
C1 Scale : NO SCALE

Sheet Index:

C1: Civil Cover Sheet

C2: Existing/Survey & Removal Plan

C3: Survey Legend

C4: Civil Site Plan

C5: Erosion & Sediment Control Plan

C6: Erosion & Sediment Control Details

C7: Stormwater Pollution Prevention Plan (SWPPP)

C8: Grading Plan

C8.1: Grading plan (right turn lane)

C9: Utility Plan

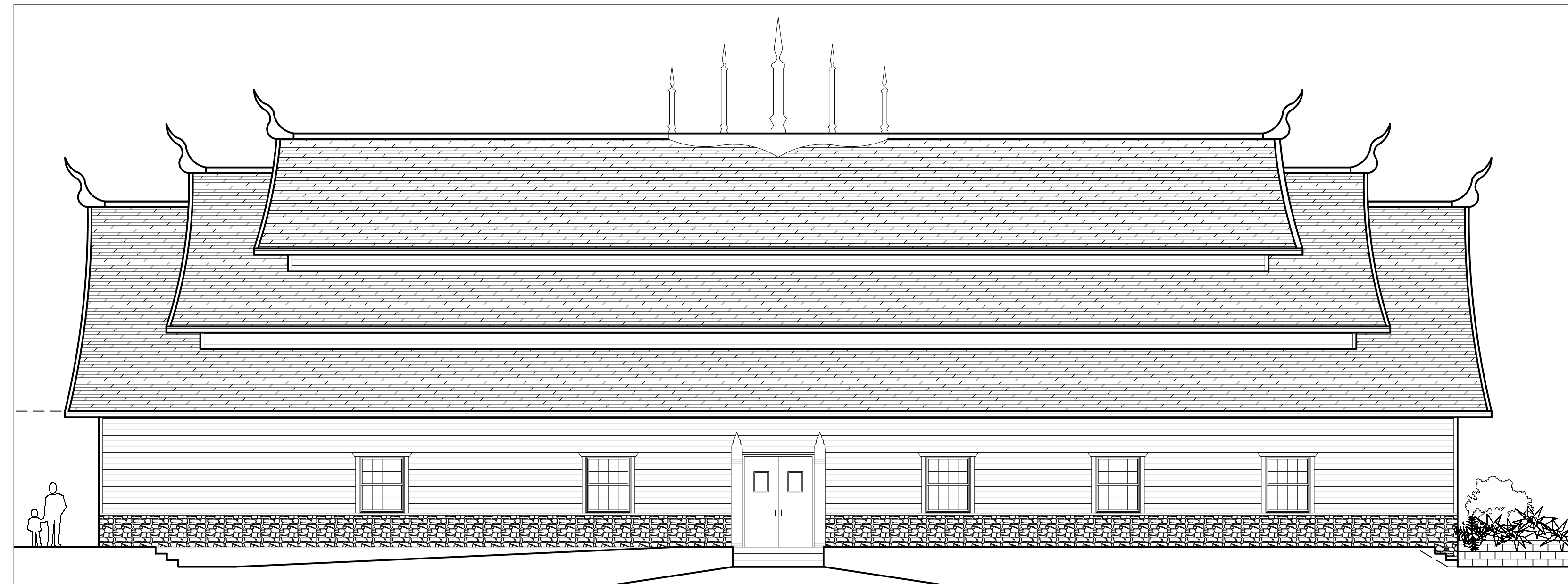
C10: Details

C11: Rain garden details

C12: Traffic control plan

Attachments:

Anoka County highway department required turn lane details.



1 Proposed structure
C1 Scale : $\frac{1}{8}'' = 1' - 0''$

GENERAL SITE WORK NOTES:

1. ALL STOCKPILES SHALL BE LOCATED WITHIN THE CONSTRUCTION LIMITS OR DESIGNATED STAGING AREAS.
2. ALL CONTROL OF WATER AND EROSION AND SEDIMENT CONTROL MEASURES SHALL BE SEQUENCED, INSTALLED, AND MAINTAINED BY THE CONTRACTOR. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE EROSION & SEDIMENT CONTROL PLAN FOR THE PROJECT. SEE EROSION & SEDIMENT CONTROL PLAN SHEET AND NOTES FOR ADDITIONAL INFORMATION.
3. ALL PUBLIC ROADWAYS AND PRIVATE DRIVEWAYS INSIDE THE CONSTRUCTION LIMITS SHALL REMAIN OPEN FOR THE DURATION OF CONSTRUCTION.
4. EXISTING TOPOGRAPHIC SURVEY SHOWN IS BASED ON A SITE SURVEY PERFORMED BY WIDSETH, INC. ON MAY, 2022.

GENERAL EARTHWORK NOTES:

- A. THE CONTRACTOR SHALL MINIMIZE DISTURBANCE OF TREES/SHRUBS NOT MARKED FOR REMOVAL, INCLUDING MINIMIZING DISTURBANCE OF SOILS WITHIN THE TREES DRIPLINE ZONES. CONTRACTORS SHALL NOT STOCKPILE MATERIAL INSIDE THE TREE DRIPLINES.
- B. CONTRACTOR SHALL PROTECT ALL STRUCTURES AND UTILITIES NOT BEING MARKED OF REMOVAL.
- C. CONTRACTOR SHALL COORDINATE ALL DEMOLITION OF UNDERGROUND UTILITY WORK WITH OWNER.
- D. NO CONCRETE OR RUBBLE SHALL BE BACKFILLED ONSITE. BURNING OF DEBRIS ON SITE SHALL NOT BE ALLOWED.

PROJECT

New East Bethel Temple
Wat Lao Xayabhoummaram

REVISIONS

REVISION 1: 6/17/2022
REVISION 2: 7/20/2022
REVISION 3: 10/03/2022
REVISION 4: 10/19/2022

PROJECT ADDRESS

4722 217th Avenue NE, East
Bethel, MN 55011

CUSTOMER INFORMATION

Owner:
Wat Lao Xayabhoummaram

Contractor:
Diego Bernal
612-407-0154
612-806-1023
diegofer1969@gmail.com
Land Construction LLC
AHR Construction Corp

Architect:
HL Architects
320-237-7411
hlarchitects2000@gmail.com
5111th Ave. S,
Waite Park, MN 56387



DATE 10/19/2022

DRAWN BY: Devonte Johnson

Becklin & Whitney
Consulting Engineers, Inc.
139 1st Ave. E, Suite 100
P.O. Box 471
Cambridge, MN 55008
Ph: 763-689-5631
office.becklinwhitney@gmail.com

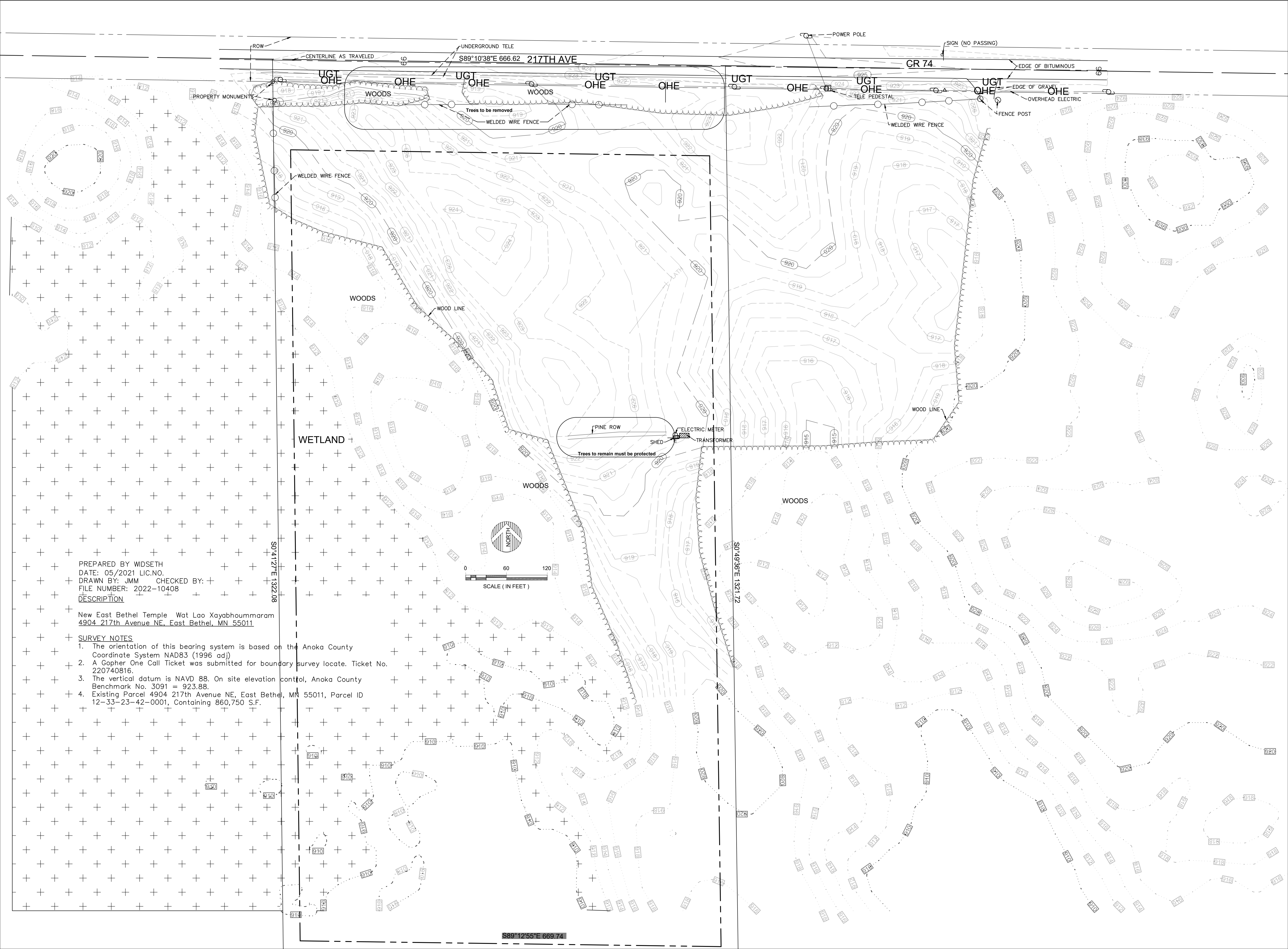
I HEREBY CERTIFY THAT THIS PLAN,
SPECIFICATION, OR REPORT WAS PREPARED
BY ME OR UNDER MY DIRECT SUPERVISION
AND THAT I AM A DULY REGISTERED
PROFESSIONAL ENGINEER UNDER THE LAWS
OF THE STATE OF MINNESOTA.

Douglas K. Whitney, P.E. License # 15910
Date: October 19, 2022

Civil Cover Sheet

C1

Page Size: 22 x 34



PROJECT

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






Douglas K. Whitney

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












Existing Conditions

C2







SURVEY MONUMENTS

	BENCH MARK
	FOUND CIM
	FOUND CPNT.
	FOUND JLM
	FOUND LATH
	FOUND PIPE
	FOUND READING
	STAKED CIM
	STAKED CPNT.
	STAKED JLM
	STAKED PIPE









EXISTING TOPO SYMBOLS

	AC UNIT
	FENCE POST
	FLAG POLE
	GUARD POST
	GUY ANCHOR
	GUY POLE
	HANDICAP SYMBOL
	MAILBOX
	SHRUB
	SIGN DOUBLE POST
	SIGN SINGLE POST
	TREE CONIFER
	TREE DECIDUOUS
	TREE STUMP
	TV DISH
	WETLAND SYMBOL
	YARD LIGHT

EXISTING UTILITY MUNICIPAL SYMBOLS



















	APRON
	LIFT STATION
	SANITARY CLEANOUT
	SANITARY MANHOLE
	STORM CATCH BASIN
	STORM INLET

EXISTING UTILITY MUNICIPAL SYMBOLS (cont.)










	STORM MANHOLE
	WATER CURB STOP
	WATER HANDHOLE
	WATER HYDRANT
	WATER MANHOLE
	WATER METER
	WATER VALVE
	WATER WELL

UTILITY UTILITY SIZE & TYPE





















EXISTING UTILITY PRIVATE SYMBOLS

	ELEC GROUND LIGHT
	ELEC HANDHOLE
	ELEC LIGHT POLE
	ELEC MANHOLE
	ELEC METER
	ELEC PEDESTAL
	ELEC POLE
	ELEC SIGNAL
	ELEC TRANSFORMER BOX
	GAS METER
	GAS VALVE
	LP TANK
	TELE HANDHOLE
	TELE MANHOLE
	TELE PEDESTAL
	TELE POLE
	TV HANDHOLE
	TV PEDESTAL

SOIL BORING SYMBOLS

	LASER-INDUCED FLUORESCENCE BORING
	LYSIMETER
	MONITOR WELL
	PERC TEST
	PIEZOMETER
	RECOVERY WELL
	SOIL BORING
	SOIL VAPOR POINT
	VAPOR SURVEY POINT



PROPOSED UTILITY MUNICIPAL SYMBOLS

	APRON PROPOSED
	SANITARY CLEANOUT PROPOSED
	SANITARY LIFT STATION PROPOSED
	SANITARY LIFT STATION VALVE MANHOLE PROPOSED
	SANITARY MANHOLE PROPOSED
	SANITARY PLUG PROPOSED
	STORM CATCH BASIN PROPOSED
	STORM MANHOLE PROPOSED
	WATER 11 1/4° BEND PROPOSED
	WATER 22 1/2° BEND PROPOSED
	WATER 45° BEND PROPOSED
	WATER 90° BEND PROPOSED
	WATER CAP PROPOSED
	WATER CROSS PROPOSED
	WATER CURB STOP PROPOSED
	WATER HYDRANT PROPOSED
	WATER REDUCER PROPOSED
	WATER SLEEVE PROPOSED
	WATER TEE PROPOSED
	WATER VALVE PROPOSED






PROPOSED UTILITY PRIVATE SYMBOLS

	ELEC LIGHT POLE PROPOSED
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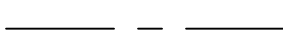


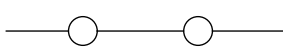

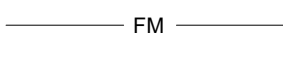
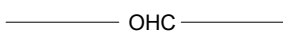
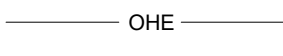
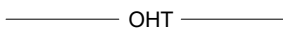
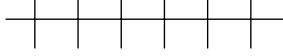
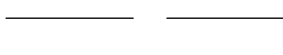


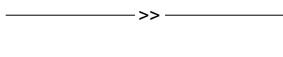
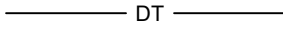
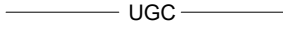
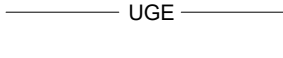
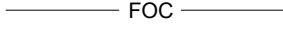

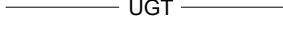





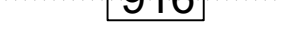
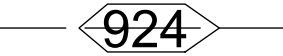
EROSION CONTROL SYMBOLS

	SURFACE DRAINAGE ARROW
	STORM DRAIN INLET PROTECTION

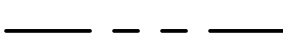
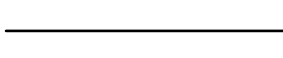
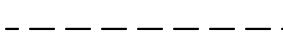
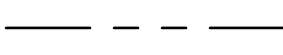
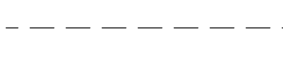
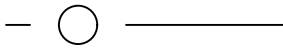
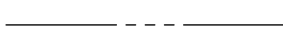

TRAFFIC CONTROL DEVICES & SYMBOLS

	TRAFFIC CONTROL SIGN (1 POST)
	TRAFFIC CONTROL SIGN (2 POST)
	TYPE III BARRICADE
	DRUM CHANNELIZER
	FLASHING ARROW OR MESSAGE BOARD

EXISTING TOPOGRAPHIC LINES

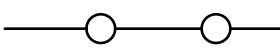
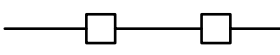
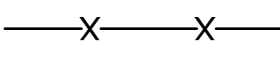
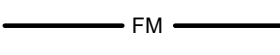
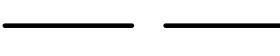
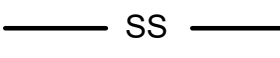
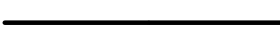
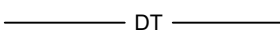
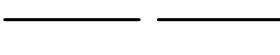

	CENTER LINE
	EDGE OF WOODS
	FENCE BARB WIRE
	FENCE CHAIN LINK
	FENCE WOOD
	FORCEMAIN
	OVERHEAD CABLE TV
	OVERHEAD ELECTRIC
	OVERHEAD TELE
	RAILROAD
	RETAINING WALL
	SANITARY SEWER
	SANITARY SEWER SERVICE
	STORM SEWER
	STORM SEWER DRAIN TILE
	UNDERGROUND CABLE TV
	UNDERGROUND ELECTRIC
	UNDERGROUND FIBER OPTIC
	UNDERGROUND GAS
	UNDERGROUND TELE
	WATERMAIN
	WATERMAIN SERVICE
	WETLAND EDGE
	Interpolated grading
	Wideth survey grading
	Anoka County GIS grading
	Proposed elevations

R/W, LOT & EASEMENTS LINES

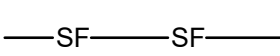
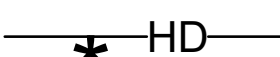
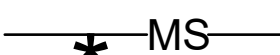
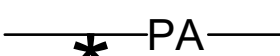

	BUILDING SETBACK LINE
	LOT LINE PROPOSED
	EASEMENT LINE
	EASEMENT LINE PROPOSED
	LOT LINE
	MNDOT CONTROLLED ACCESS LINE
	RIGHT OF WAY EXISTING
	RIGHT OF WAY PROPOSED

SURVEY PREPARED BY WIDSETH
VERIFY WHAT NAME GOES HERE
DATE: 05/2021 LIC.NO.
DRAWN BY: JMM CHECKED BY:
FILE NUMBER: 2022-10408

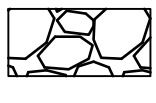




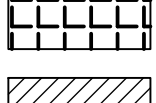

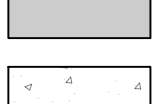
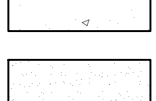

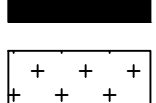
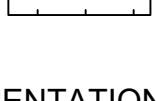
PROPOSED CONSTRUCTION LINES

	FENCE CHAIN LINK PROPOSED
	FENCE WOOD PROPOSED
	FENCE BARB WIRE PROPOSED
	FORCEMAIN PROPOSED
	SANITARY SEWER PROPOSED
	SANITARY SERVICE PROPOSED
	STORM SEWER PROPOSED
	STORM SEWER DRAIN TILE PROPOSED
	WATERMAIN PROPOSED
	WATERMAIN SERVICE PROPOSED

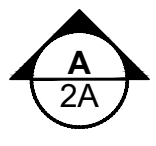
EROSION CONTROL LINES

	SILT FENCE
	SILT FENCE TYPE HEAVY DUTY
	SILT FENCE TYPE MACHINE SLICED
	SILT FENCE TYPE PREASSEMBLED
	FLOTATION SILT CURTAIN

HATCH PATTERN AND SHADING LEGEND

	RANDOM RIPRAP
	SOD
	SEED
	HYDRAULIC STABILIZER
	EROSION CONTROL BLANKET
	TEMP. ROCK CONSTRUCTION ENTRANCE
	BUILDING WALL HATCH
	BITUMINOUS SURFACE
	CONCRETE SURFACE
	GRAVEL SURFACE
	EASEMENT PATTERN
	WETLAND

DOCUMENTATION SYMBOLS

	SECTION ARROW - SECTION NUMBER TOP; PAGE OF SECTION BOTTOM
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PROJECT

New East Bethel Temple
Wat Lao Xayabhoummaram

REVISIONS

REVISION 1: 6/17/2022
REVISION 2: 7/20/2022
REVISION 3: 10/03/2022
REVISION 4: 10/19/2022

PROJECT ADDRESS

4722 217th Avenue NE, East
Bethel, MN 55011

CUSTOMER INFORMATION

Owner:
Wat Lao Xayabhoummaram

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612-407-0154
612-806-1023
diegofer1969@gmail.com
Land Construction LLC
AHR Construction Corp

Architect:
HL Architects
320-237-7411
hlarchitects2000@gmail.com
5111th Ave. S,
Waite Park, MN 56387



DATE 10/19/2022

DRAWN BY: Devonte Johnson

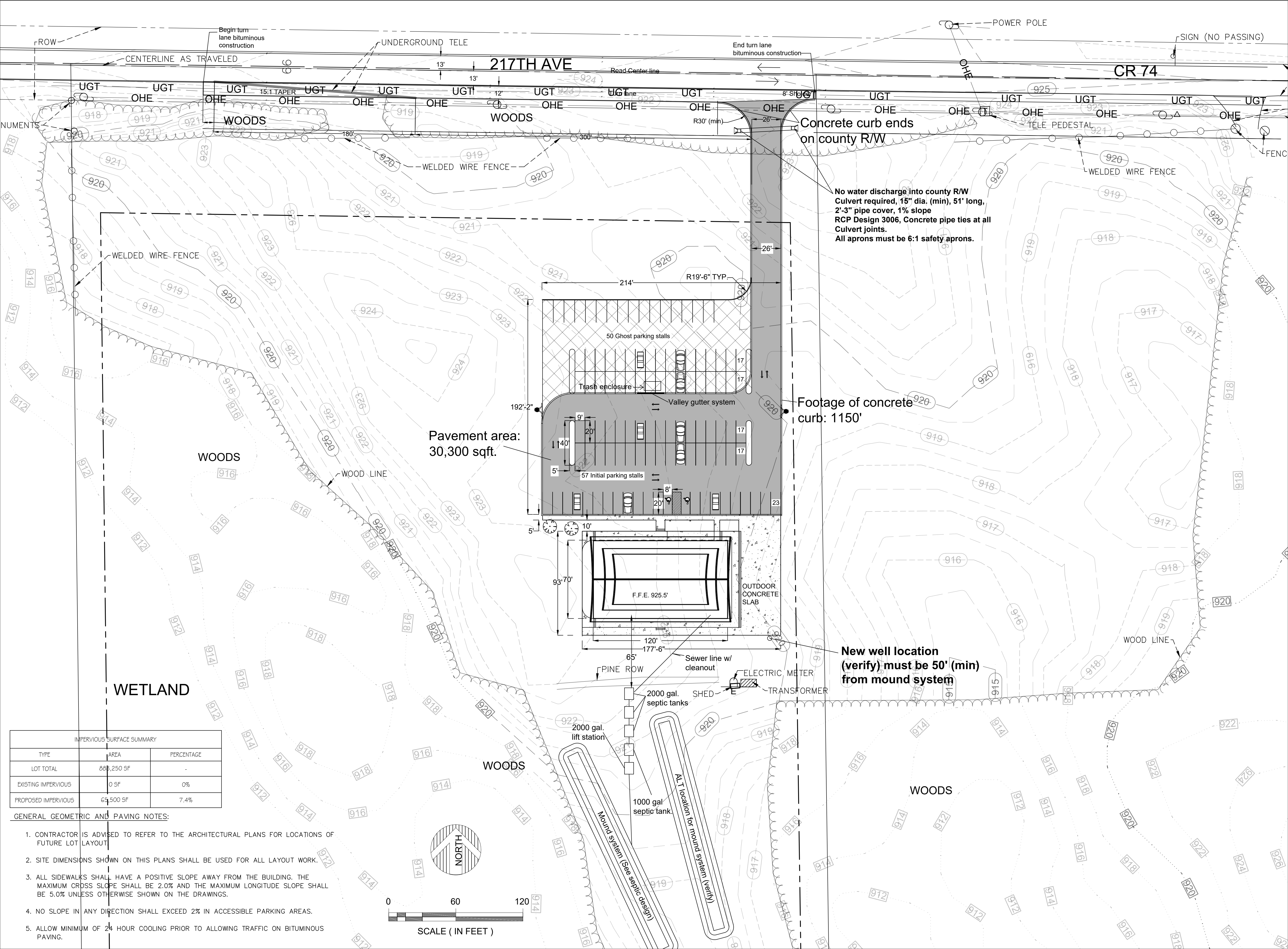
Becklin & Whitney
Consulting Engineers, Inc.
139 1st Ave. E, Suite 100
P.O. Box 471
Cambridge, MN 55008
Ph: 763-689-5631
office.becklinwhitney@gmail.com

I HEREBY CERTIFY THAT THIS PLAN,
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AND THAT I AM A DULY REGISTERED
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OF THE STATE OF MINNESOTA.

Douglas K. Whitney, P.E. License # 15910
Date: October 19, 2022

Survey Legend

C3



IMPERVIOUS SURFACE SUMMARY		
TYPE	AREA	PERCENTAGE
LOT TOTAL	688,250 SF	-
EXISTING IMPERVIOUS	0 SF	0%
PROPOSED IMPERVIOUS	69,500 SF	7.4%

- GENERAL GEOMETRIC AND PAVING NOTES:
- CONTRACTOR IS ADVISED TO REFER TO THE ARCHITECTURAL PLANS FOR LOCATIONS OF FUTURE LOT LAYOUT
 - SITE DIMENSIONS SHOWN ON THIS PLANS SHALL BE USED FOR ALL LAYOUT WORK.
 - ALL SIDEWALKS SHALL HAVE A POSITIVE SLOPE AWAY FROM THE BUILDING. THE MAXIMUM CROSS SLOPE SHALL BE 2.0% AND THE MAXIMUM LONGITUDE SLOPE SHALL BE 5.0% UNLESS OTHERWISE SHOWN ON THE DRAWINGS.
 - NO SLOPE IN ANY DIRECTION SHALL EXCEED 2% IN ACCESSIBLE PARKING AREAS.
 - ALLOW MINIMUM OF 24 HOUR COOLING PRIOR TO ALLOWING TRAFFIC ON BITUMINOUS PAVING.

PROJECT

New East Bethel Temple
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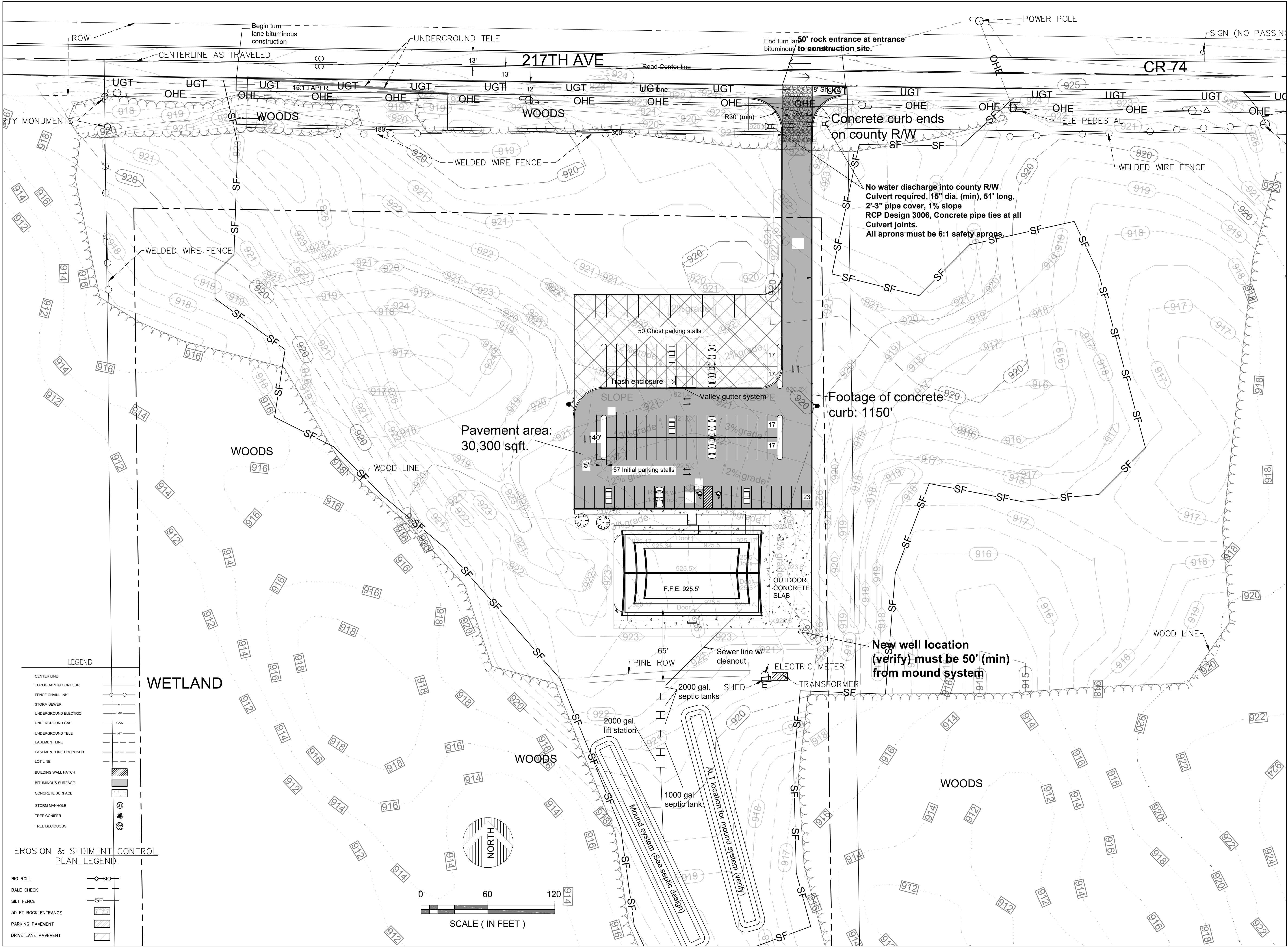
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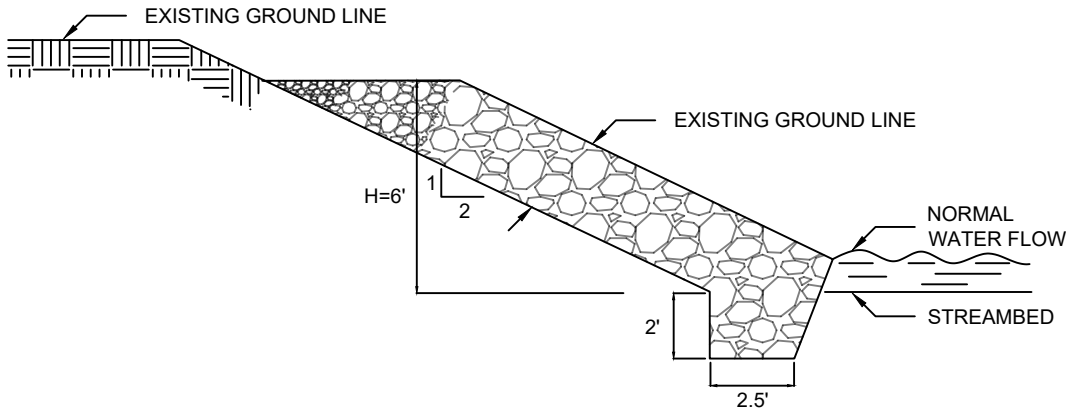
Erosion & Sediment Control Plan

C5

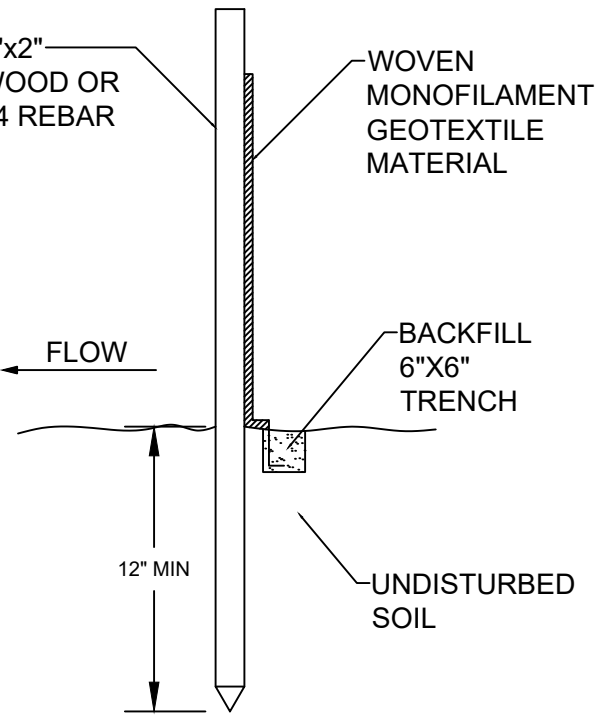
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GENERAL EROSION AND SEDIMENTATION CONTROL NOTES:

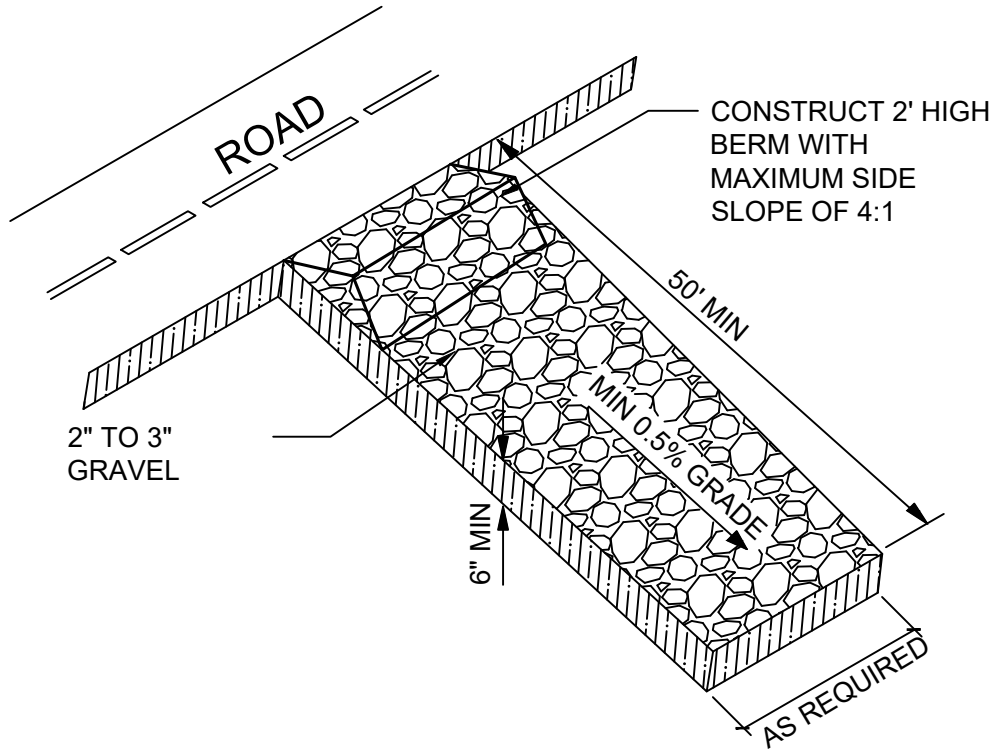
1. CONTRACTOR MUST NOTIFY CITY INSPECTOR PRIOR TO ANY LAND DISTURBANCES. FAILURE TO DO SO MAY RESULT IN FINES, THE REVOCATION OF PERMIT AND A STOP WORK ORDER BEING ISSUED.
2. INSTALL PERIMETER EROSION CONTROL AT THE LOCATIONS SHOWN ON THE PLANS PRIOR TO COMMENCEMENT OF ANY LAND DISTURBANCE OR CONSTRUCTION ACTIVITIES. SILT FENCE SHALL FOLLOW EXISTING CONTOURS AS CLOSELY AS FEASIBLE.
3. BEFORE BEGINNING CONSTRUCTION, INSTALL A TEMPORARY ROCK CONSTRUCTION ENTRANCE AT EACH POINT WHERE VEHICLES EXIT THE CONSTRUCTION SITE. USE 2 INCH OR GREATER DIAMETER ROCK IN A LAYER AT LEAST 6 INCHES THICK ACROSS THE ENTIRE WIDTH OF THE ENTRANCE. EXTEND THE ROCK ENTRANCE AT LEAST 50 FEET INTO THE CONSTRUCTION ZONE USING A GEO-TECXITILE FABRIC BENEATH THE AGGREGATE TO PREVENT MIGRATION OF SOIL INTO THE ROCK FROM BELOW.
4. GENERAL CONTRACTOR SHALL DENOTE ON PLAN THE TEMPORARY PARKING AND STORAGE AREA WHICH SHALL ALSO BE USED AS THE EQUIPMENT MAINTENANCE AND CLEANING AREA, EMPLOYEE PARKING AREA, AND AREA FOR LOCATION PORTABLE FACILITIES, OFFICE TRAILERS AND TOILET FACILITIES.
5. REMOVE ALL SOILS AND SEDIMENTS TRACKED OR OTHERWISE DEPOSITED ONTO PUBLIC AND PRIVATE PAVEMENT AREAS. REMOVAL SHALL BE ON A DAILY BASIS WHEN TRACKING OCCURS AND MAY BE ORDERED BY MINNEAPOLIS INSPECTORS AT ANY TIME IF CONDITIONS WARRANT. SWEEPING SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THE CONSTRUCTION AND DONE IN A MANNER TO PREVENT DUST BEING BLOWN TO ADJACENT PROPERTIES.
6. INSTALL INLET PROTECTION AT ALL PUBLIC AND PRIVATE CATCH BASIN INLETS. WHICH RECEIVE RUNOFF FROM THE DISTURBBED AREAS. CONTRACTOR SHALL CLEAN, REMOVE SEDIMENT OR REPLACE STORM INLET PROTECTION DEVICES ON A ROUTINE BASIS SUCH THAT THE DEVICES ARE FULLY FUNCTIONAL FOR THE NEXT RAIN EVENT. SEDIMENT FILTER FABRIC WRAPPED GRATES ARE NOT ALLOWED FOR INLET PROTECTION.
7. LOCATE SOIL OR DIRT STOCKPILES NO LESS THAN 25 FEET FROM ANY PUBLIC OR PRIVATE ROADWAY OR DRAINAGE CHANNEL IF REMAINING FOR MORE THAN SEVEN DAYS, STABILIZE THE STOCKPILES BY MYUCHING, VEGITATIVE COVER, TARPS, OR OTHER MEANS. CONTROL EROSION FORM ALL STOCKPILES BY PLACING SILT BARRIERS AROUND THE PILES. TEMPORARY STOCKPILES LOCATED ON PAVED SURFACES MUST BE NO LESS THAN 2 FEET FROM THE DRAINAGE/GUTTER LINE AND SHALL BE COVERED IF LEFT MORE THAN 24 HOURS.
8. MAINTAIN ALL TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES IN PLACE UNTIL THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED. INSPECT TEMPORARY EROSION AND SEDIMENT CONTROL ON A DAILY BASIS AND REPLACE DETERIORATED, OR ROTTED EROSION CONTROL DEVICES IMMEDIATELY.
9. TEMPORARILY OR PERMANENTLY STABILIZED ALL CONSTRUCTION AREAS WHICH HAVE UNDERGONE FINAL GRADING, AND ALL AREAS IN WHICH GRADING OR SIDE BUILDING CONSTRUCTION OPERATIONS ARE NOT ACTIVELY UNDERWAY AGAINST EROSION DUE TO RAIN, WIND AND RUNNING WATER WITHIN 7 DAYS. USE SEE AND MULCH, EROSION CONTROL MATTING, AND/OR SODDING AND STAKING IN GREEN SPACE AREAS. REMOVE ALL TEMPORARY SYNTHETIC, STRUCTURAL, NON-BIODEGRADABLE EROSION AND SEDIMENT CONTROL DEVICES AFTER THE SITE HAS UNDERGONE FINAL STABILIZATION WITH PERMANENT VEGETATION ESTABLISHMENT. FINAL STABILIZATION FOR PURPOSE OF THIS REMOVAL IS 70% ESTABLISHED COVER OVER DENUDED AREA.
10. READY MIXED CONCRETE AND CONCRETE BATCH/MIX PLANTS ARE PROHIBITED WITHIN THE PUBLIC RIGHT OF WAY. ALL CONCRETE RELATED PRODUCTION, CLEANING AND MIXING ACTIVITIES AHSLL BE DONE IN THE DESIGNATED CONCRETE MIXING/WASHOUT LOCATIONS AS DETERMINED BY THE CONTRACTOR. UNDER NO CIRCUMSTANCES MAY WASHOUT WATER DRAIN INTO THE PUBLIC RIGHT OF WAY OR INTO ANY PUBLIC OR PRIVATE STORM DRAIN CONVEYANCE.
11. DUE TO THE GRADE CHANGES DURING THE DEVELOPMENT OF THE PROJECT, CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE EROSION CONTROL MEASURES TO PREVENT EROSION.
12. CHANGES TO APPROVED EROSION CONTROL PLAN MUST BE APPROVED BY THE EROSION CONTROL INSPECTOR PRIOR TO IMPLEMENTATION. CONTRACTOR TO PROVIDE INSTALLATION AND DETAILS FOR ALL PROPOSED ALTERNATES TYPE DEVICES.
13. STREET SWEEPING SHALL BE PERFORMED IF SEDIMENT COLLECTS ON STREETS.
14. ALL CONSTRUCTION SHALL BE STABILIZED AT THE END OF EACH WORKING DAY. THIS INCLUDES BACKFILLING OF TRENCHES FOR UTILITY CONSTRUCTION AND PLACEMENT OF GRAVEL OF BITUMINOUS PAVING FOR ROAD CONSTRUCTION.



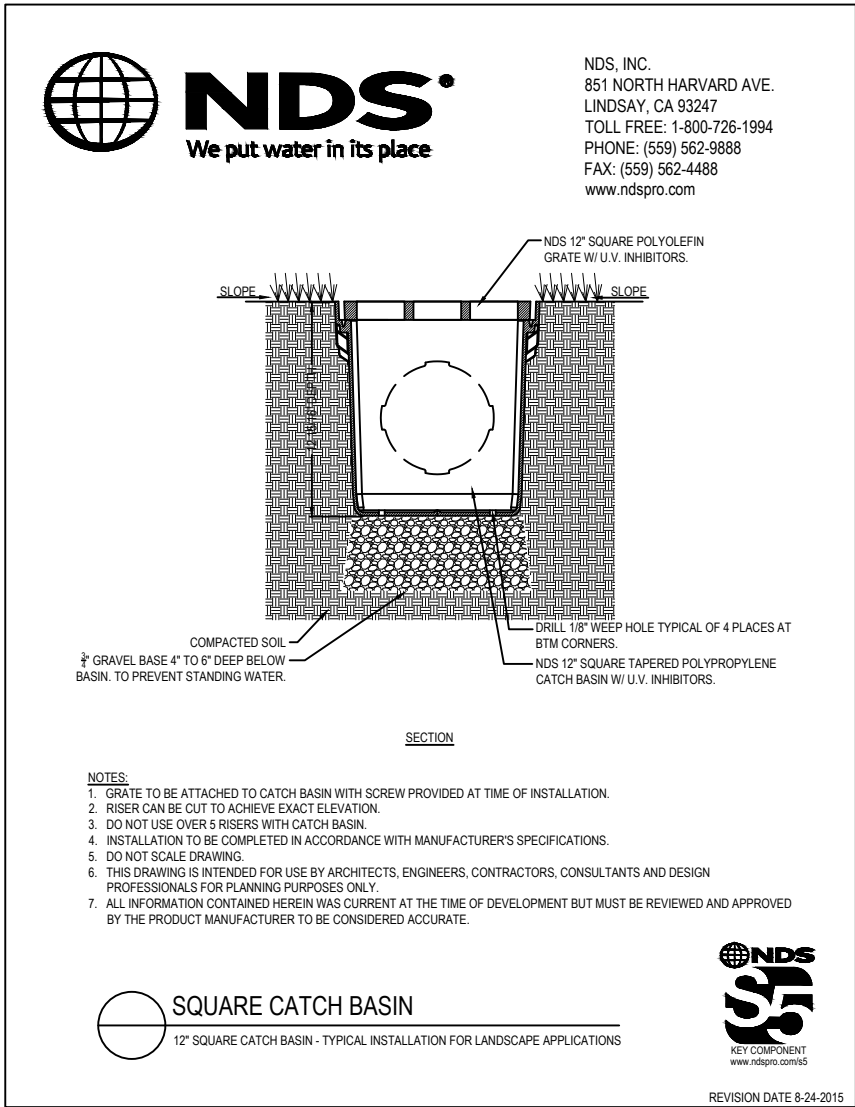
EROS 1-C6	EROSION CONTROL	SCALE: NTS BECKLIN & WHITNEY CONSULTING ENGINEERS
	RIP RAP	



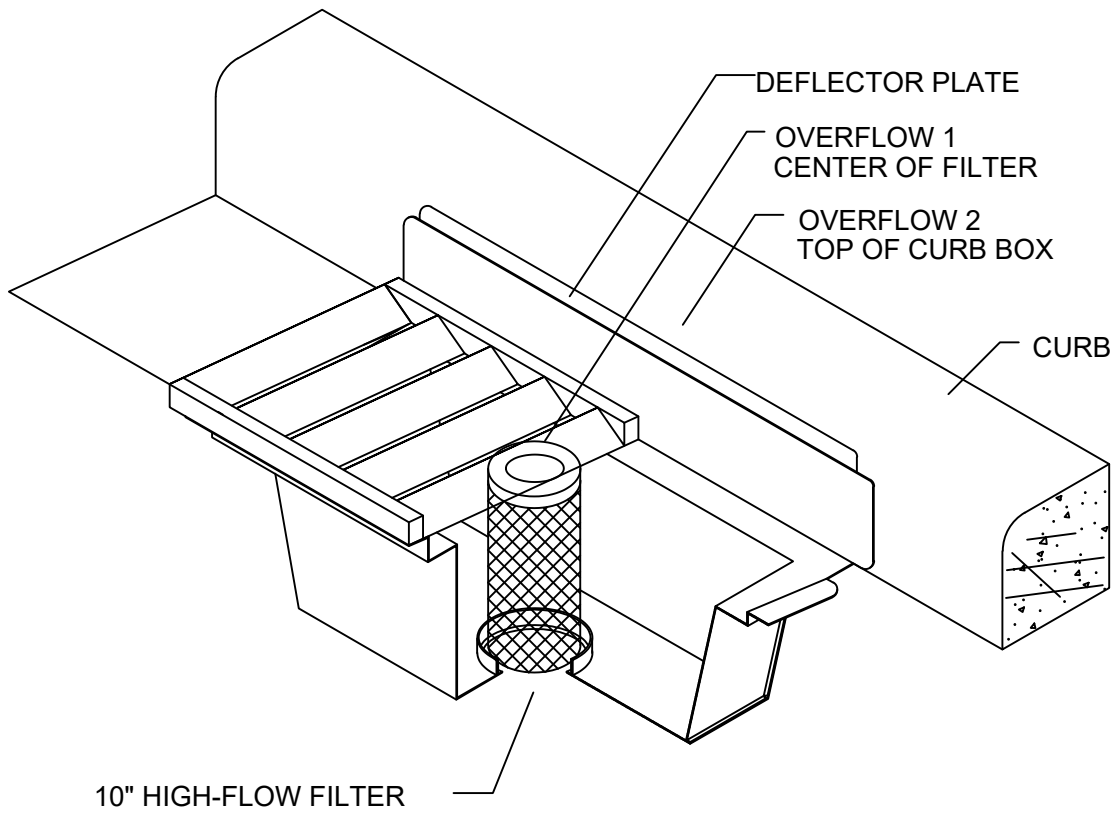
EROS 4-C6	EROSION CONTROL	DRAWN BY: KG SCALE: NTS BECKLIN & WHITNEY CONSULTING ENGINEERS
	SILT FENCE	



EROS 3-C6	EROSION CONTROL	DRAWN BY: KG SCALE: NTS BECKLIN & WHITNEY CONSULTING ENGINEERS
	ROCK ENTRANCE DRIVE	



EROS 6-C6	EROSION CONTROL	DRAWN BY: KG SCALE: NTS BECKLIN & WHITNEY CONSULTING ENGINEERS
	STANDARD CATCH BASIN	



- NOTES:
- WIMCO CG MODEL OR APPROVED EQUAL TO MATCH CASTING
 - SILT FENCE/FABRIC NOT ALLOWED TO BE USED AS INLET PROTECTION

STM 9-C6	STORM SEWER	DRAWN BY: KG SCALE: NTS BECKLIN & WHITNEY CONSULTING ENGINEERS
	INLET PROTECTION FOR CURB AND GUTTER	

PROJECT

New East Bethel Temple
Wat Lao Xayabhoummaram

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Douglas K. Whitney, P.E. License # 15910
Date: October 19, 2022

Erosion & Sediment control
details

C6

CONSTRUCTION ACTIVITY REQUIREMENTS: EROSION CONTROL PRACTICES, PROCEDURES & MAINTENANCE STANDARDS

The operator is responsible for the installation, operation, and continued maintenance of all temporary and permanent water quality management BMPs, as well as all erosion prevention and sediment control BMPs, for the duration of the construction work at the site, until final stabilization is achieved. All BMPs must be adequately located, designed, installed and maintained to prevent erosion from a minimum 0.5 inch total rainfall event within 24 hours.

All nonfunctional BMPs must be required, replaced or supplemented with functional BMPs by the end of the next business day after discovery, or as soon as conditions allow access unless another time frame is specified in the SWPPP. All eroded material that leaves the site shall be collected by the Operator and returned to the site at the Operator's expense and incidental to the project cost.

Temporary or permanent stabilization shall be initiated as soon as possible, not later than the end of the next work day following the day earth-disturbing activities in that portion of the site have temporarily or permanently ceased. All exposed soil areas shall be stabilized within 14 days after the construction activity in that portion of the site has temporarily or permanently ceased. Initiated stabilization is defined as completing one (or more) of the following: soil preparation for vegetation, mulching (or other temporary non-vegetative BMP), seeding/plating, or scheduling stabilization measures to be fully installed and completed within the 14 day timeframe.

All exposed soils within 200 feet and draining to a DNR Public Waters must be stabilized within 24 hours of temporarily or permanently ceasing work, during the fish spawning period of March 15 to June 15. Temporary stockpiles without significant silt, clay or organic components (e.g. clean aggregate stockpiles, demolition concrete stockpiles, sand stockpiles) and the constructed base components of roads, parking lots and similar surfaces are exempt from this requirement.

Temporary stabilization BMPs shall only be implemented when presented stabilization BMPs cannot be implemented within the 14 day timeframe for exposed soils.

Please refer to “Temporary Erosion and Sediment Control Plan” and “Stormwater Details” of the construction plan set for BMP installation details and locations.

Temporary/Permanent Drainage Ditches & Swales: The normal wetted perimeter (2-year, 24-hour precipitation event) of any temporary or permanent drainage ditch, channel, or swale that drains water from any portion of the construction site, or diverts water around the site, must be stabilized within the last 200 lineal feet from the property edge, or from the point of discharge into any surface water within 24-hours of connection. Stabilization of the remaining portions of the channel must be stabilized within 14-days. All stormwater conveyance channels must use Erosion Control and velocity dissipation devices within and along the length of the channel and at any outlets. Temporary or permanent ditches of swales that are being used as a temporary sediment system (within properly designed rock ditch checks, bio-rolls, silt dikes, etc.) do not need to be stabilized. These areas must be stabilized within 24-hours after no longer being used as a sediment containment system. Mulch, hydromulch, tackifier, or polyacrylamide below the wetted perimeter of a ditch, swale, or other surface water conveyance is not acceptable stabilization.

Erosion Control Blankets/Mats: Operator shall verify during regular inspections that no gullies, rills, or scour holes have formed under Erosion Control blankets and mats. All repairs must be completed within 24-hours of discovery, or as soon as field conditions allow access.

Mulch: Operator must apply mulch in a uniform pattern over the disturbed soils, to achieve a minimum of 90% ground cover.

Dust Control: Dust from the site will be controlled by increased street sweeping and/or using a mobile pressure-type distributor truck to apply potable water to disturbed areas. The mobile unit will apply water at a rate necessary to prevent runoff and ponding.

Storm Sewer Outlets: Pipe outlets must have temporary or permanent energy dissipation within 24-hours after hydraulic connection to receiving surface water.

Temporary Erosion Control BMPs

Type 1 Mulch: Apply to disturbed slopes less than 1:3 with blower equipment or concurrently with a hydrolock at 2 tons/acre. Immediately overspray (if not hydromulch) with a tackifier (per manufacturer recommended rates) or disc-anchored.

Rapid Stabilization Method #3: This work shall consist of operations necessary to rapidly stabilize small critical areas within 200 feet of Surface Waters, to prevent off site sediment and/or to comply with permit requirements. Install per MNDOT specifications 2575.3N.

Rapid Stabilization Method #4: (wood fiber, natural net only) is an acceptable BMP for disturbed areas adjacent to environment sensitive areas, surface waters, and within the last 200 feet of ditch bottoms.

Temporary Winter Cover: Areas of exposed soils that are not completed before the winter will be stabilized with Type #3 (certified as Weed Free) adjacent to wetland or stormwater ponds. All other disturbed areas shall be stabilized with Type #1 mulch, unless alternative more protective BMPs are specific within the SWPPP. All exposed soils shall be stabilized before construction is completed for the season.

Hydro-Mulch Type #5: Hydraulic Soil Stabilizer in combination with a tackifier will be installed per manufacturer specifications to exposed soil areas to provide temporary long-term or permanent cover for vegetation establishment.

POLLUTION PREVENTION MANAGEMENT MEASURES

Potential sources of pollutants from construction activities include:

Sediment and Fugitive dust generated from clearing and grabbing, import/export operations, removals/compaction, mass/fine grading, excavations, trenching, topsoil striping, stockpiling, wet/dry pavement cutting, street construction.
Basic/acidic PH Levels from curb and gutter, manhole structures, sidewalks, driveway aprons, foundations, bridge abutments, wet/dry pavement cutting, masonry washout/cleanout.
Excess nutrients from landscaping installations, soil additives, fertilization, mulching.
Hydrocarbons from street construction, demolition/removals, wet/dry pavement cutting.

Operator will comply with all of the pollution prevention and management measures identified in the NPDES-CSW permit. Operator will submit a spill prevention and response plan (SPRP) to the engineer within 7 days prior to any construction activity. The SPRP must satisfactorily address (at a minimum) the following NPDES requirement by the proposed implementation and maintenance of appropriate BMPs.

No-Exposure: Construction and building products (that have the potential to leach pollutants), pesticides, herbicides, insecticides, fertilizers, treatment chemicals, and landscaping materials must be under cover (plastic sheeting or temporary roofs) to minimize contact with stormwater and precipitation.

Solid Waste: (sediment, asphalt, concrete millings, construction, and demolition debris) and other wastes must be disposed of properly and shall comply with MPCA disposal requirements (ch. 7035).

Hazardous Material: (e.g. gas, diesel, oil, antifreeze, paint solvents, soaps, detergents, wood preservatives, cleaning solvents, curing compounds, acids, etc.) must be stored in sealed containers in restricted access areas to prevent vandalism. Secondary spill containment is required for all materials if stored on-site for more than 24 consecutive hours (Double walled tanks are acceptable for secondary containment)/ Storage and disposal of hazardous wastes and materials must be in compliance with MPCA regulations (ch. 7045).

Portable toilets: must be positioned and secured so they are not tipped or knocked over.

Equipment/Vehicle Fueling, External Washing, and Maintenance Practices: When vehicle fueling, maintenance, or external washing must occur on-site, the activity is limited to a contained portion of the staging area, unless infeasible through a SWPPP amendment. Procedures for spill response and materials for containment and clean up (drip pans, dry absorbents, and spill kits) will be available at all times on-site. Engine degreasing is prohibited on-site.

Concrete, Stucco, Paint, Curing Compounds, Solvents, and other Washout Wastes: Temporary or Long-Term storage of washout waste is prohibited on-site (slurry must be hauled immediately off-site). Operator must submit a concrete washout plan to the project engineer for approval of all on-site washout locations. On-site washout locations must be located 200 feet from an environmentally sensitive area and surface waters, have “concrete washout area” signage, and be contained in a leak-proof container or impermeable liner. Liquid and solid wastes should not contact the ground (unless permitted in the concrete washout plan), be contained to prevent runoff from the washout location, and must be disposed of properly and in compliance with MPCA regulations.

Burning: Burning of garbage, construction debris, trees, brush, or other negative material is not allowed on site, unless prior approval is granted by the owner.

INSPECTION AND MAINTENANCE

The operator must inspect the entire construction site at least once every seven (7) days during active construction and within 24-hours after a rainfall event greater than 0.5 inches in 24-hours. The operator shall provide a rainfall gauge on-site, within one mile of the site, or source of the weather reporting system that uses site specific rainfall data from radar summaries. The location and source of the rainfall gauge or reporting system must be documented in the first SWPPP inspection report. Refer to SWPPP narrative for additional details.

FINAL STABILIZATION

The contractor must ensure final stabilization of the entire site. SWPPP Narrative for additional details.

PROJECT

New East Bethel Temple
Wat Lao Xayabhoummaram

REVISIONS

REVISION 1 : 6/17/2022
REVISION 2: 7/20/2022
REVISION 3: 10/03/2022
REVISION 4: 10/19/2022

PROJECT ADDRESS

4722 217th Avenue NE, East
Bethel, MN 55011

CUSTOMER INFORMATION

Owner:
Wat Lao Xayabhoummaram

Contractor:
Diego Bernal
612-407-0154
612-806-1023
diegofer1969@gmail.com
Land Construction LLC
AHR Construction Corp

Architect:
HL Architects
320-237-7411
hlarchitects2000@gmail.com
5111th Ave. S,
Waite Park, MN 56387



DATE 10/19/2022

DRAWN BY: Devonte Johnson

Becklin & Whitney
Consulting Engineers, Inc.
139 1st Ave. E, Suite 100
P.O. Box 471
Cambridge, MN 55008
Ph: 763-689-5631
office.becklinwhitney@gmail.com

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

A handwritten signature in black ink, appearing to read "Doug Whitney", written over a horizontal line.

Douglas K. Whitney, P.E. License # 15910
Date: October 19, 2022

Stormwater Pollution Prevention
Plan (SWPPP)

C7

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Douglas

C8

EXISTING TOPOGRAPHIC LINES

- Interpolated grading
- Widseth survey grading
- Anoka County GIS grading

GENERAL GRADING NOTES:

- ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE IN PLACE BEFORE BEGINNING SIER GRADING ACTIVITIES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING QUANTITIES OF CUT, FILL AND WASTE MATERIAL, TO BE HANDLED, AND FOR THE AMOUNT OF GRADING TO BE DONE. ALL COSTS ASSOCIATED WITH IMPORTING SUITABLE MATERIAL AND SEPORTING UNSTABLE/EXCESS/WASTE MATERIAL SHALL BE INCLUDED IN THE BID PRICE.
- CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO AVOID PRIORTIES DURING THE CONSTRUCTION PHASES OF THIS PROJECT. CONTRACTOR WILL BE HELD SOLELY RESPONSIBLE FOR ANY DAMAGES TO THE ADJACENT PROPERTIES OCCURING DURING THE CONSTRUCTION PHASES OF THIS PROJECT.
- SAFETY NOTICE TO CONTRACTORS: IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONTRACTOR WILL BE SOLEY AND COMPLETELY RESPONSIBLE FOR CONDITIONS ON THE JOB SITE, INCLUDING SAFETY IF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE DUTY OF THE ENGINEER OR THE DEVELOPER TO CONDUCT CONSTRUCTION REVIEW OF THE CONTRACTOR'S PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES IN, ON OR NEAR THE CONSTRUCTION SITE.
- CONTRACTOR SHALL COMPLETE THE SIETE GRADING CONSTRUCTION IN ACCORDANCE WITH THE REQUIREMENTS OF THE OWNER'S SOILS ENGINEER. ALL SOIL TESTING SHALL BE COMPLETED BY THE OWNERS SOILS ENGINEER. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL REQUIRED SOIL TEST AND INSPECTIONS WITH THE SOIL ENGINEER.
- PRIOR TO PLACEMENT OF THE AGGREGATE BASE, A TEST ROLL SHALL BE PERFORMED ON THE STREET AND PARKING AREA SUBGRADE, CONTRACTOR SHALL PROVIDE LOADED TANDEM AXLE TRUCK WITH WITH A GROSS WEIGHT OF 25 TONS. THE TEST ROLLING SHALL BE AT THE DIRECTION OF THE SOILS ENGINEER AND SHALL BE COMPLETED IN ACCORDANCE WITH THE REQUIREMENTS OF THE SOILS ENGINEER.
- REPLACE ALL SUBGRADE SOIL DISTURBED CONSTRUCTION DURING CONSTRUCTION THAT HAVE BECOME UNSUITABLE AND WILL NOT PASS A TEST ROLL. REMOVE UNSUITABLE SOIL FROM THE SITE AND IMPORT SUITABLE SOIL AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR SHALL STRIP, STOCKPILE AND RE-SPREAD EXISTING ONSITE TOPSOIL. IF MATERIAL IS APPROVED BY THE LANDSCAPE ARCHITECT AND/OR SPECIFICATIONS PROVIDE A UNIFORM THICKNESS OF 6" MINIMUM IN ALL DISTURBED AREAS TO BE LANDSCAPED.
- CONTRACTOR SHALL DISPOSE OF ANY EXCESS SOIL MATERIAL UNLESS OTHERWISE DIRECTED.
- REFER TO LANDSCAPE PLAN FOR PERMANENT TURF RESTORATION AND PLANTING INFORMATION.
- MAINTAIN TEMPORARY PROTECTION MEASURES DURING CONSTRUCTION ACTIVITIES.
- SEE SITE PLAN SHEET C4 FOR SITE LAYOUT.
- PROPOSED CONTOURS AND SPOT ELEVATIONS ARE TO FINISHED SURFACE GRADE.
- PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDINGS AT ALL TIMES.
- UNIFORMLY GRADED AREAS WITHIN LIMITS OF GRADING AND PROVIDED A SMOOTH FINISHED SURFACE WITH UNIFORM SLOPES POINTS WHERE ELEVATIONS ARE SHOWN OR BETWEEN SUCH POINTS AND EXISTING GRADES.
- LIMIT THE DISTURBED AREA AS MUCH AS POSSIBLE AND CONDUCT GRADING OPERATIONS IN A MANNER TO MINIMIZE THE POTENTIAL FOR EROSION.

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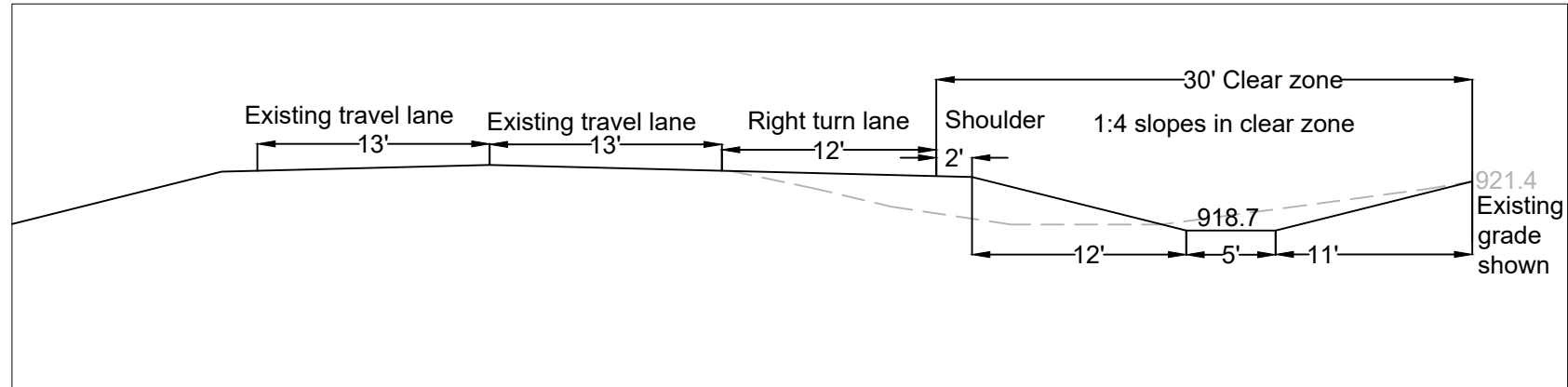
Douglas K. Whitney

Douglas K. Whitney, P.E. License # 15910
Date: October 19, 2022

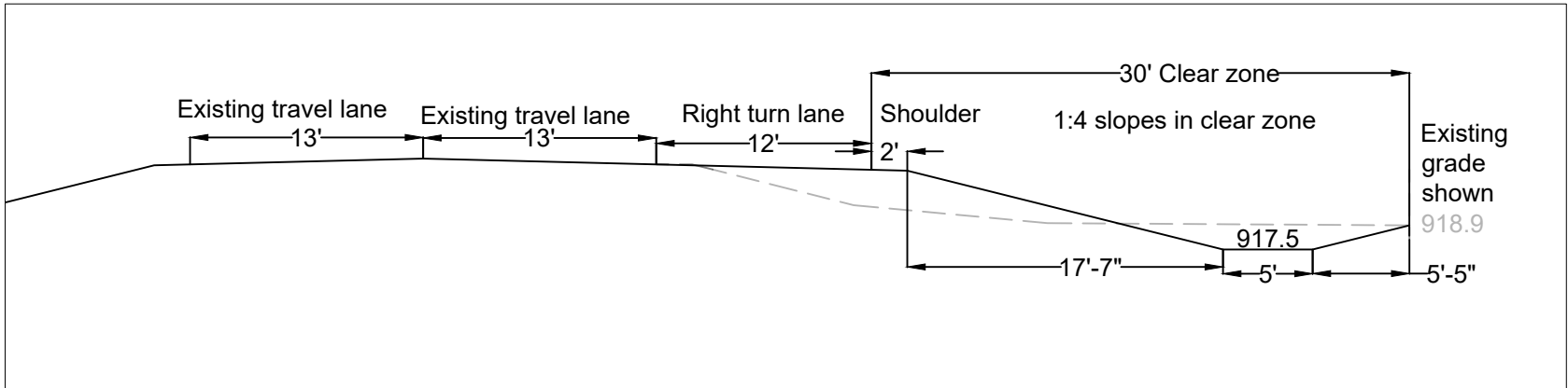
Grading Plan
(Right turn lane)

C8.1

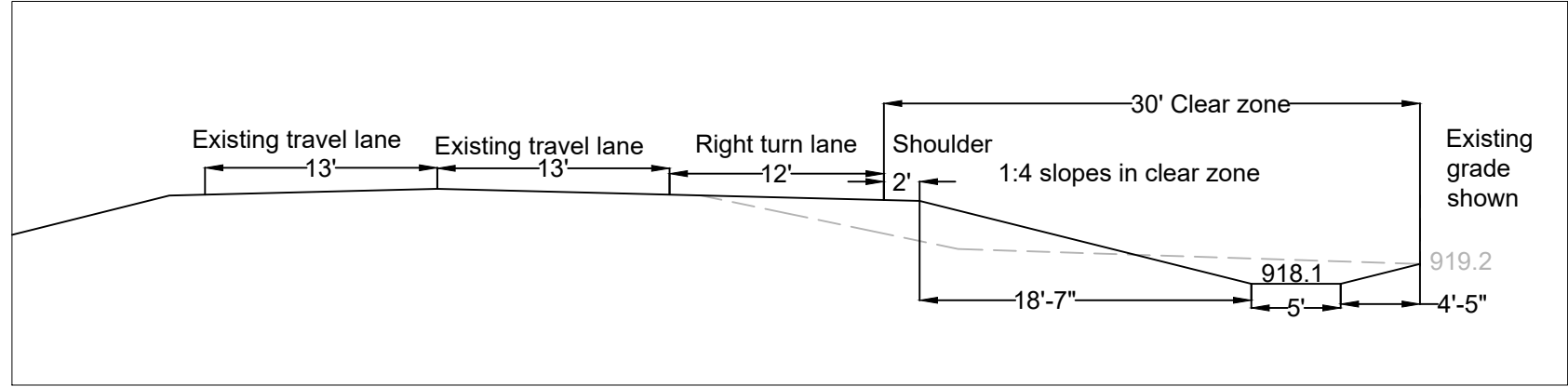
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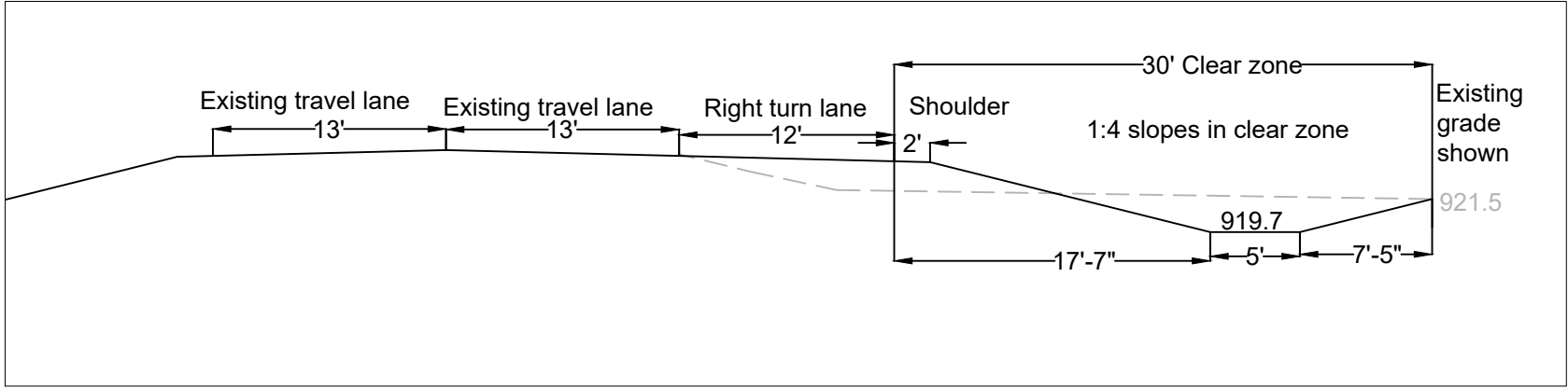
1 Turn lane section 1
S8.1 Scale : 1" = 10'



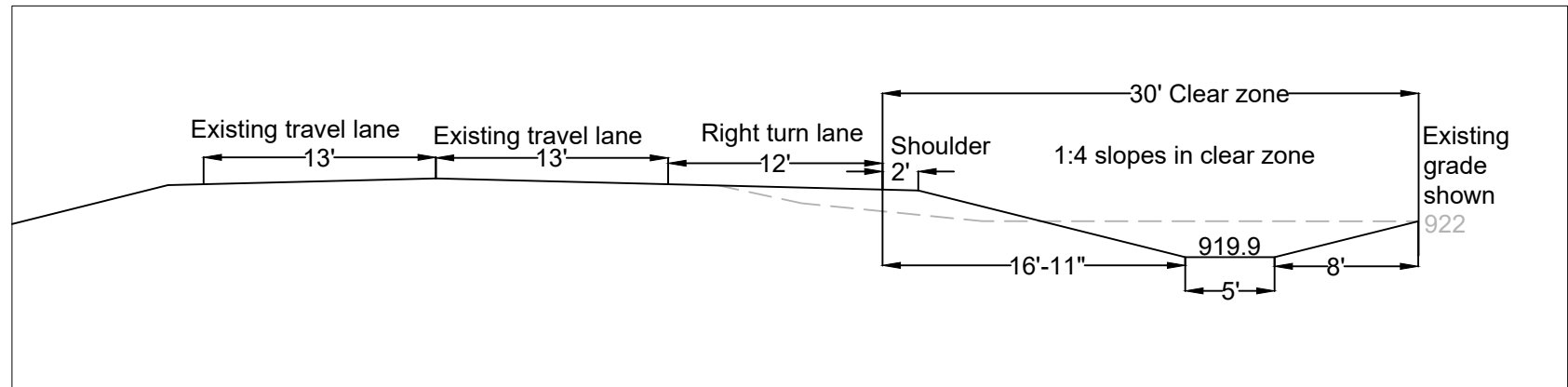
2 Turn lane section 2
S8.1 Scale : 1" = 10'



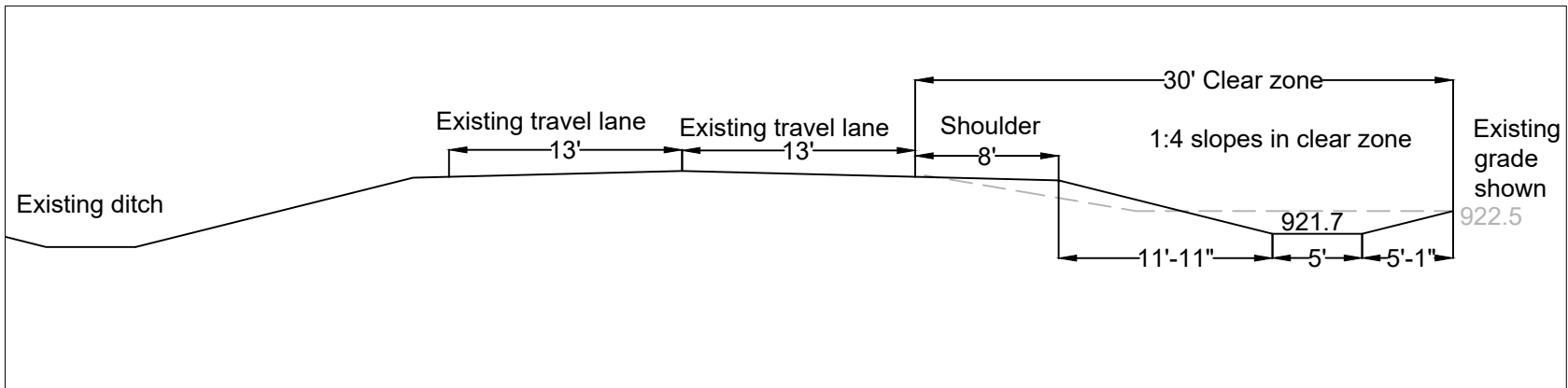
3 Turn lane section 3
S8.1 Scale : 1" = 10'



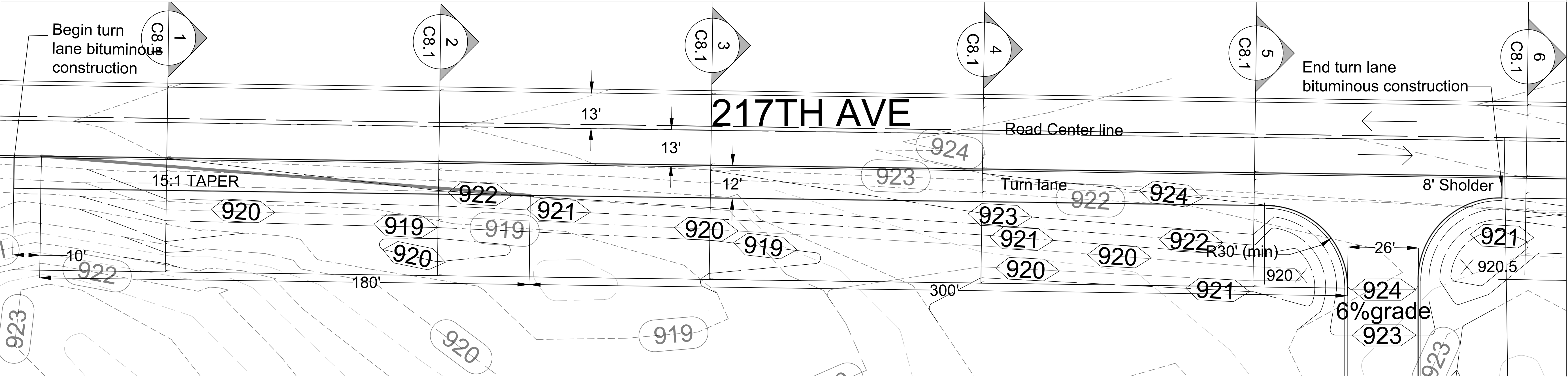
4 Turn lane section 4
S8.1 Scale : 1" = 10'



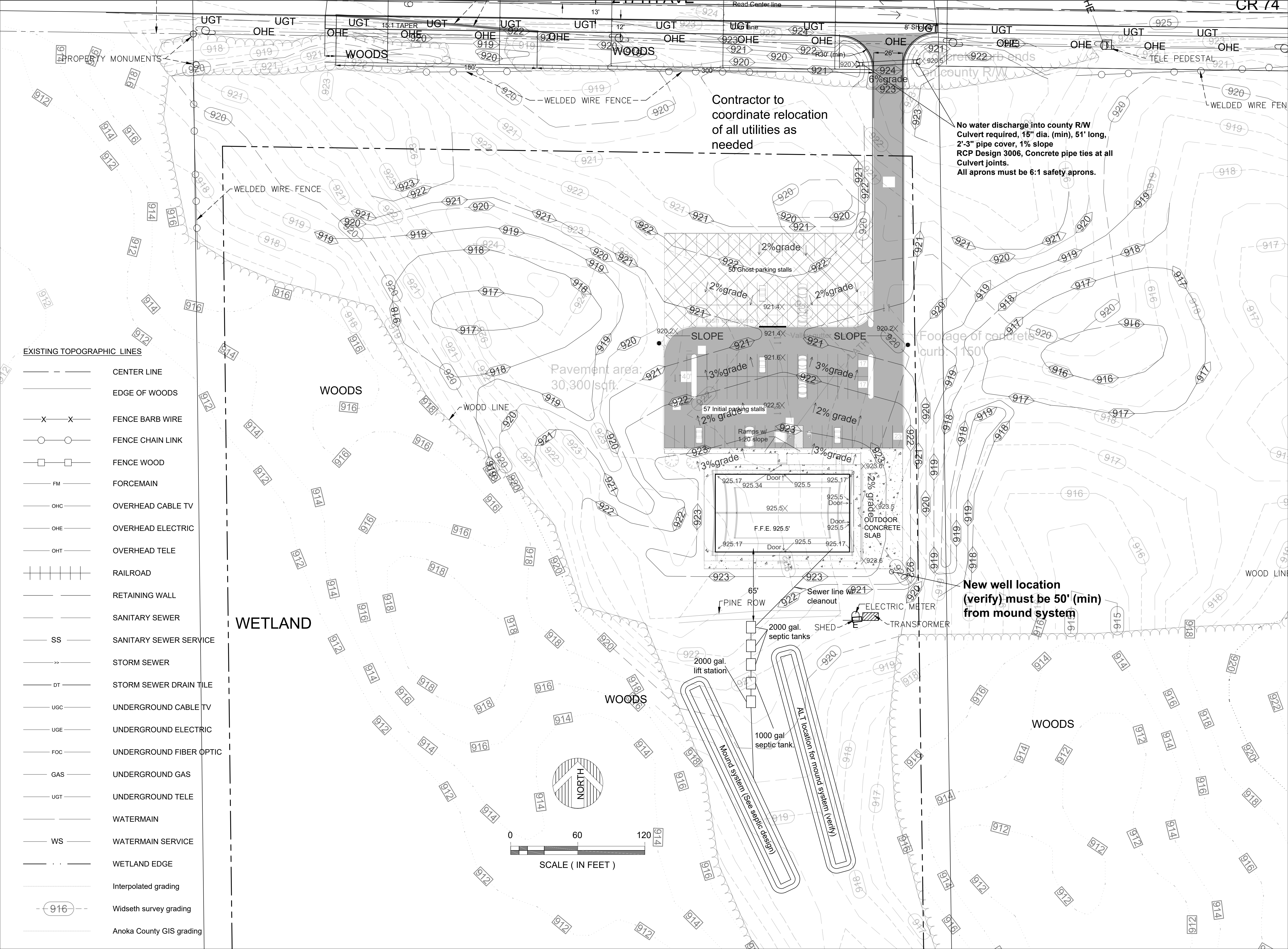
5 Turn lane section 5
S8.1 Scale : 1" = 10'



6 Turn lane section 6
S8.1 Scale : 1" = 10'



7 New turn lane detail
C8.1 Scale : 1" = 20'



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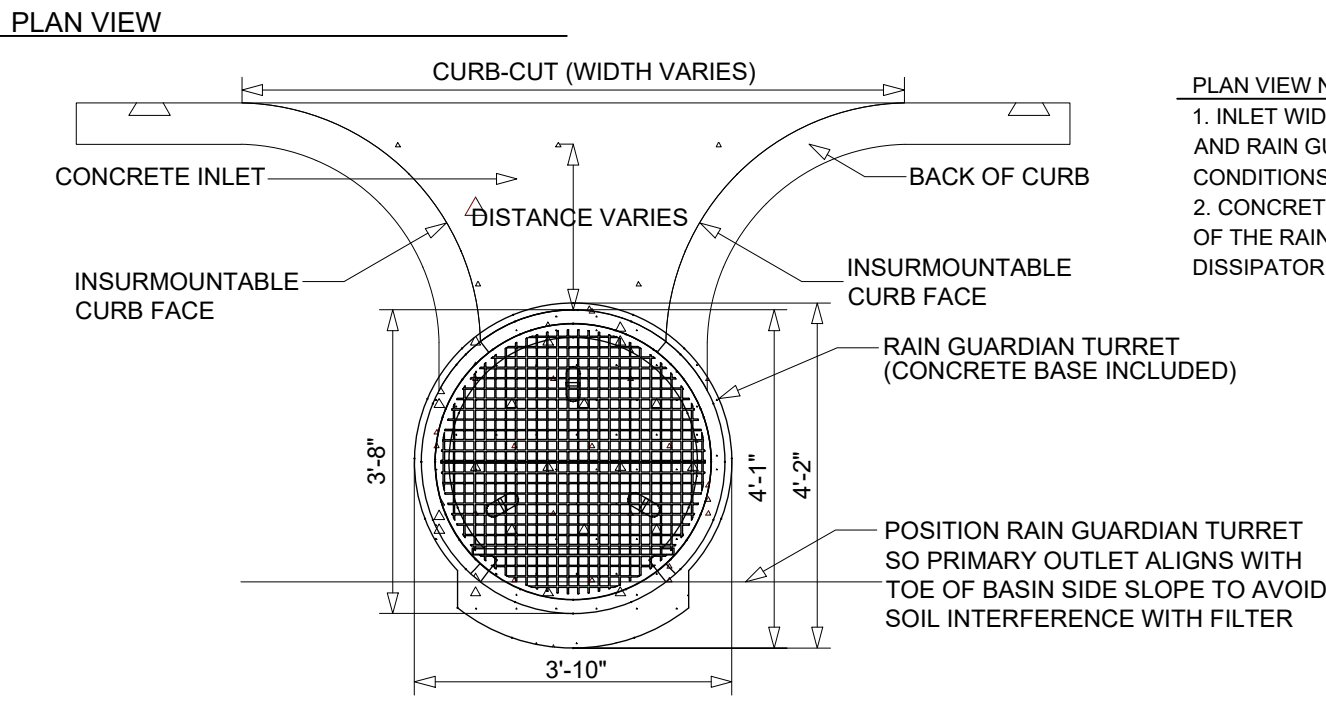
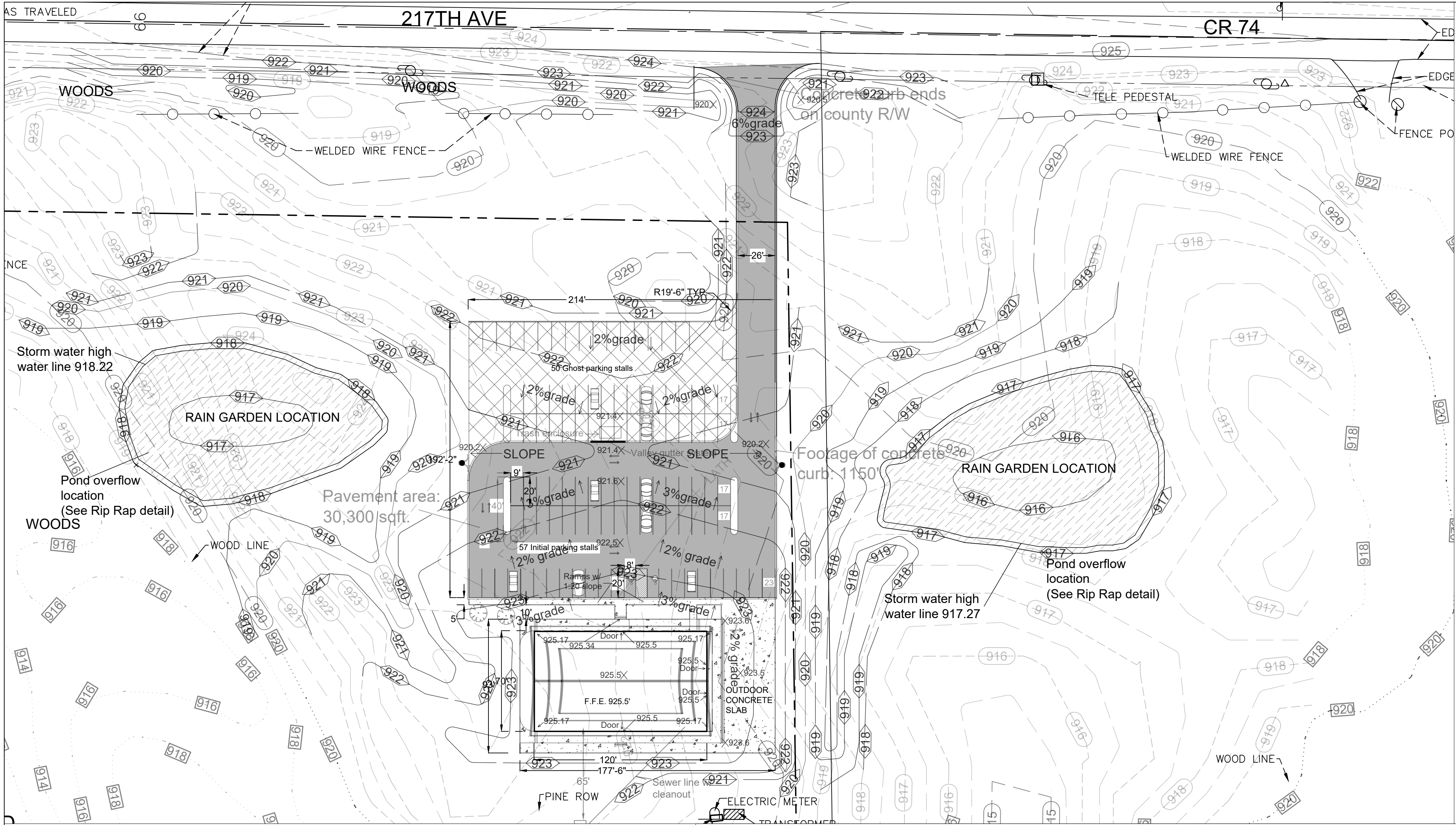
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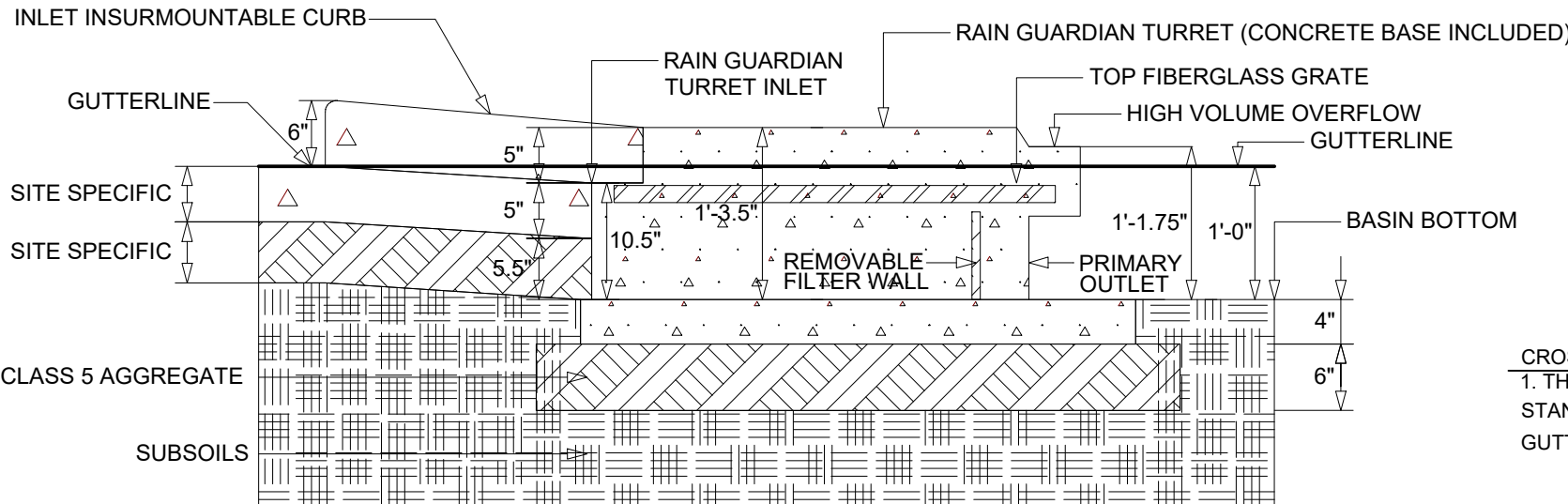
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Utility Plan

C9



ELEVATION VIEW



- SPECIFICATIONS
1. STEEL REINFORCED, COLD JOINT SECURED MONOLITHIC CONCRETE STRUCTURE (1,030 LBS). CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS. CONCRETE AIR ENTRAINMENT (4% TO 8% BY VOLUME). MANUFACTURED AND DESIGNED TO ASTM C888.
 2. THREE-POINT PICK USING RECESSED LIFTING POCKETS WITH A STANDARD HOOK.
 3. TWO-PIECE FIBERGLASS TOP GRATE (16 LBS/PIECE, 1-1/2" THICK) - 1,760 LB CONCENTRATED LOAD OR 409 LB/SQ-FT UNIFORM LOAD.

- INSTALLATION NOTES
1. INSTALL THE CLASS 5 BASE (COMPACTED TO 95% STANDARD PROCTOR). THE DISTANCE FROM THE BACK OF THE CURB MAY VARY BASED ON SITE CONDITIONS, BUT CONSIDERATIONS SHOULD INCLUDE SLOPE OF THE INLET AND BASIN SIDE SLOPES ADJACENT TO THE RAIN GUARDIAN TURRET. POSITION RAIN GUARDIAN TURRET SO PRIMARY OUTLET ALIGNS WITH TOE OF BASIN SIDE SLOPE TO AVOID SOIL INTERFERENCE WITH REMOVABLE FILTER WALL. EXCAVATE 1' 10" BELOW THE GUTTERLINE ELEVATION (I.E. THE BIORETENTION OVERFLOW ELEVATION) TO ACCOMMODATE THE 1' PONDING DEPTH, 6" CLASS 5 AGGREGATE, AND 4" RAIN GUARDIAN TURRET BASE (INCLUDED). THEREFORE, THE TOP OF THE CLASS 5 COMPACTED BASE IS PRECISELY 1' 4" BELOW THE GUTTERLINE ELEVATION. THE INLET TO THE RAIN GUARDIAN TURRET WILL BE 10-1/2" ABOVE THE TOP OF THE CONCRETE BASE AND 1-1/2" BELOW THE GUTTERLINE ELEVATION TO ACCOMMODATE A SLOPED INLET FROM THE GUTTER TO THE RAIN GUARDIAN TURRET.
 2. SET RAIN GUARDIAN TURRET ON THE PREPARED CLASS 5 BASE.
 3. INSTALL FRAMING FOR HIGH VOLUME OVERFLOW RAIN GUARDIAN TURRET AND BACK OF CURB. TOP ELEVATIONS OF THE FRAMING SHOULD MATCH THE TOP OF THE CURB ON THE STREET SIDE AND THE TOP OF THE RAIN GUARDIAN TURRET ON THE BIORETENTION SIDE.
 4. INSTALL EXPANSION/CONTRACTION JOINT MATERIAL OR A SHEET OF POLY TO SERVE AS A BOND BREAK BETWEEN RAIN GUARDIAN TURRET AND CONCRETE INLET BEFORE POURING INLET.
 5. SIDE CURBS OF THE POURED INLET MUST HAVE AN INSURMOUNTABLE PROFILE TO PREVENT WATER FLOW FROM OVERTOPPING THE DOWNSTREAM SIDE OF THE INLET.
 6. REMOVABLE FILTER WALL SHOULD BE INSTALLED WITH FILTER FABRIC FACING THE RAIN GUARDIAN TURRET INLET.

MANUFACTURED BY: **FORTERRA** Structural & Specialty

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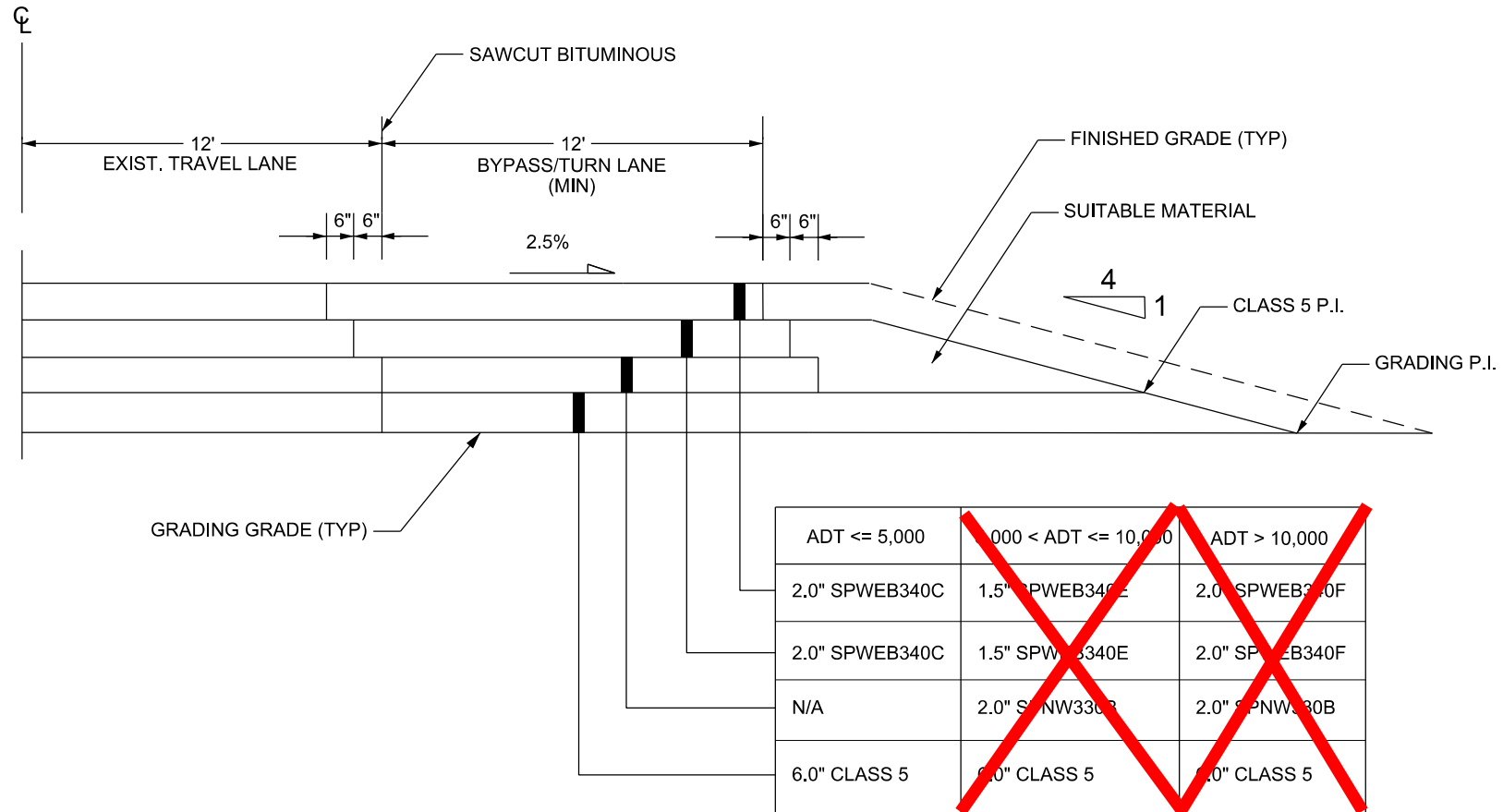
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Rain garden details

CII

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ANOKA COUNTY HIGHWAY DEPARTMENT



MIX DESIGN
(2360 SPEC)

ALL DISTURBED SOIL MUST BE SEEDED, MULCHED, AND DISK ANCHORED IN ACCORDANCE WITH MN/DOT STANDARD SPECIFICATIONS. RAPID-DEGRADABLE STRAW BLANKET SHALL BE USED IN AREAS OF HIGH EROSION.

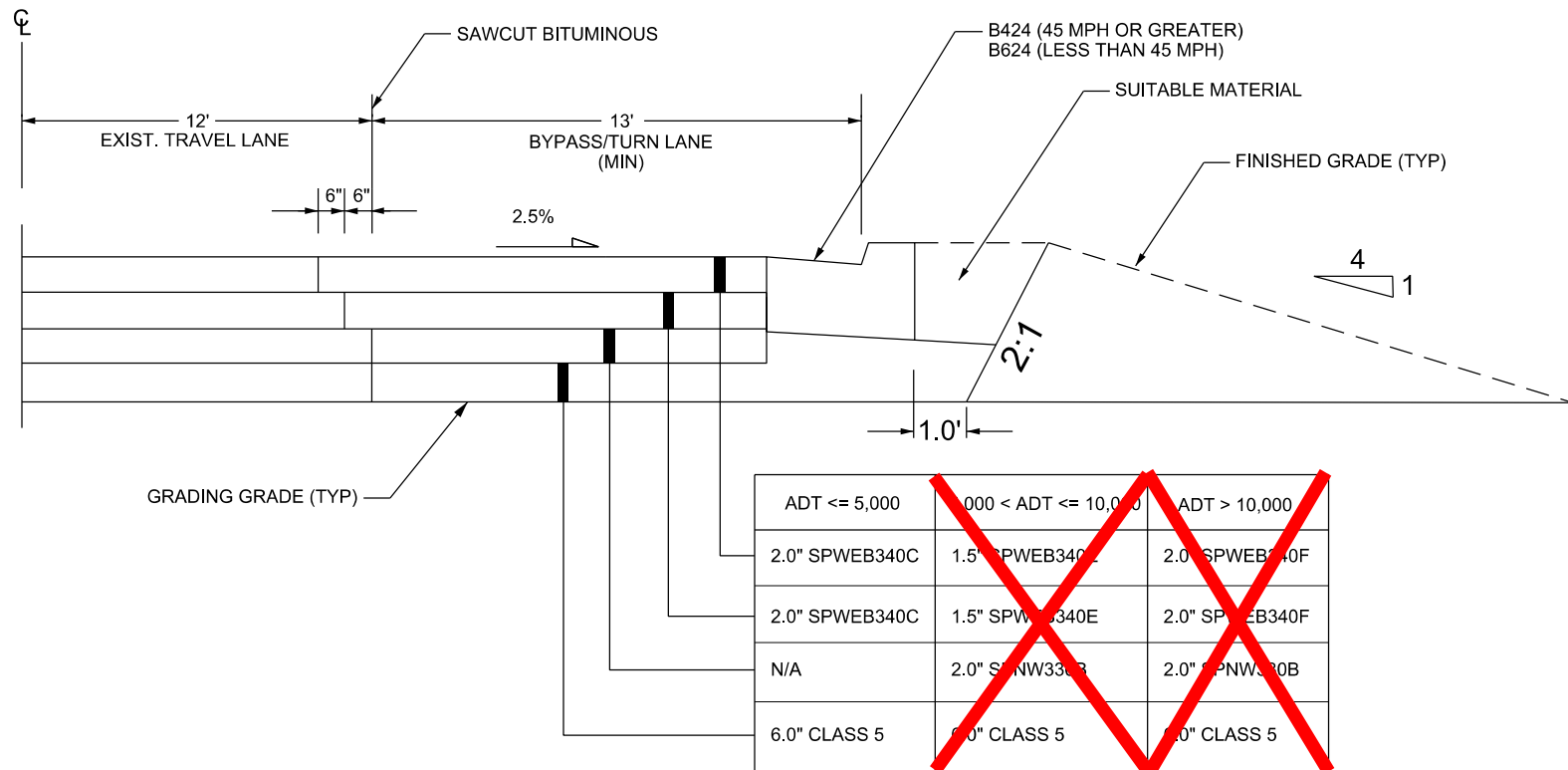
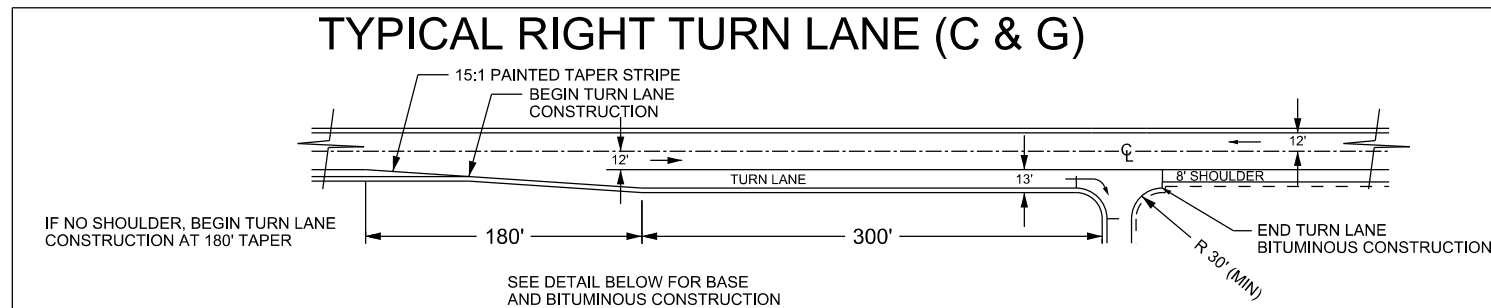
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Base and Bituminous Construction Detail

DETAIL A
September 2019



ANOKA COUNTY HIGHWAY DEPARTMENT



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(2360 SPEC)

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NOT TO SCALE

Base and Bituminous Construction Detail
For Curb and Gutter Section

DETAIL A

January 2020

