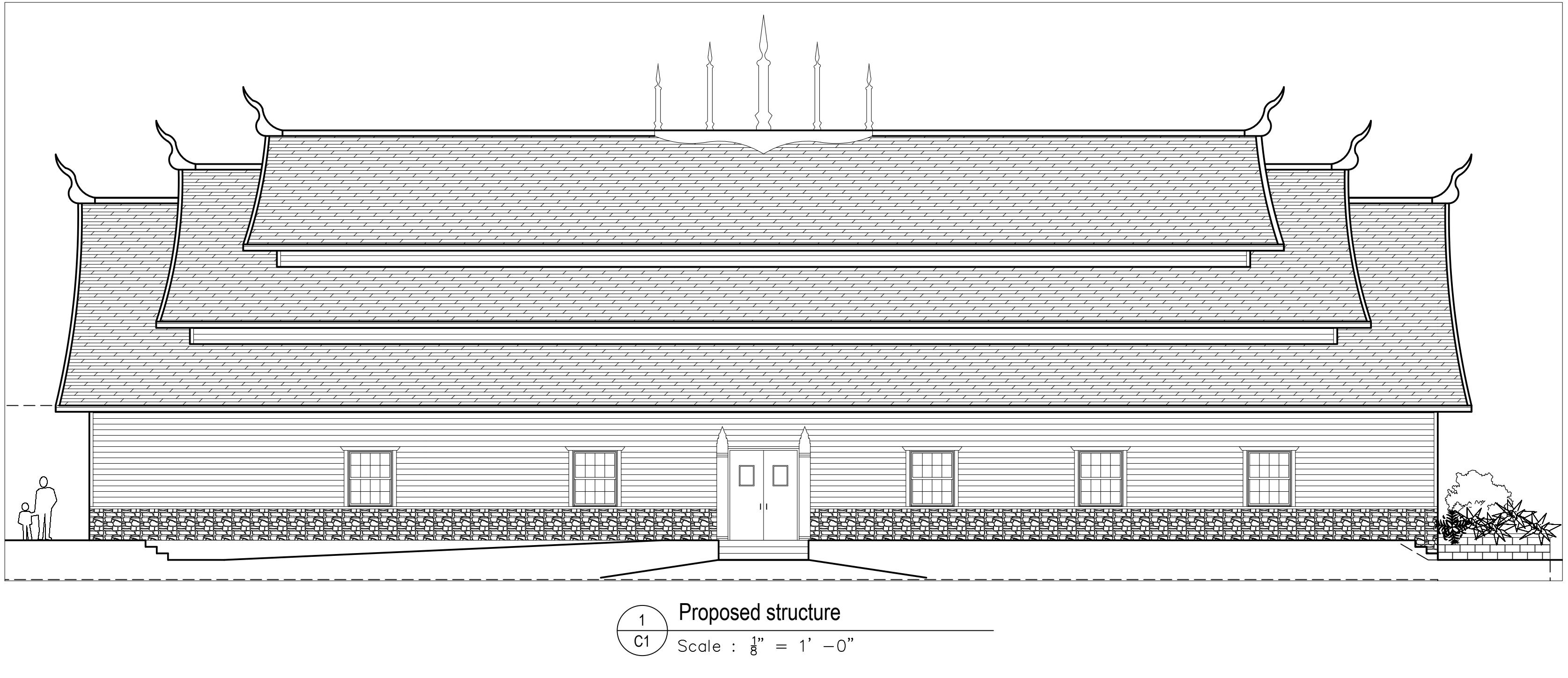


**Sheet Index:**

- 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.

**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 FOR 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.

New East Bethel Temple
Wat Lao Xayaboummaram
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

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Wat Lao Xayaboummaram

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

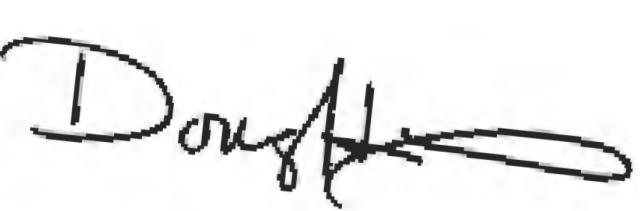
Architect:
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DATE 10/19/2022
DRAWN BY: Devonte Johnson

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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

Survey Legend

C3

Page Size: 22 x 34

SURVEY MONUMENTS

EXISTING UTILITY MUNICIPAL SYMBOLS (cont.)

◆ BENCH MARK	◎ STORM MANHOLE
● FOUND CIM	○ WATER CURB STOP
FOUND CPNT.	○ ^w WATER HANDHOLE
● JLM	○ WATER HYDRANT
× LATH	○ WATER MANHOLE
● READING	○ ^w WATER METER
× FOUND READING	○ ^w WATER VALVE
○ STAKED CIM	○ WATER WELL
STAKED CPNT.	UTILITY UTILITY SIZE & TYPE
STAKED JLM	
○ STAKED PIPE	

EXISTING UTILITY PRIVATE SYMBOLS

◀ ELEC GROUND LIGHT
○ ^E ELEC HANDHOLE
○ ELEC LIGHT POLE
○ ELEC MANHOLE
○ ELEC METER
▶ FLAG POLE
○ ELEC PEDESTAL
○ GUARD POST
○ ELEC POLE
○ GUY ANCHOR
○ GUY POLE
○ ELEC SIGNAL
○ ELEC TRANSFORMER BOX
○ ^G GAS METER
○ ^G GAS VALVE
○ LP TANK
○ ^T TELE HANDHOLE
○ ^T TELE MANHOLE
○ ^T TELE PEDESTAL
○ ^T TELE POLE
○ ^T TREE CONIFER
○ ^T TREE DECIDUOUS
○ ^T TREE STUMP
○ ^{SD} TV DISH
○ ^T TV HANDHOLE
○ ^T TV PEDESTAL
○ ^T WETLAND SYMBOL
○ ^T YARD LIGHT

SOIL BORING SYMBOLS

○ ^{IF} LASER-INDUCED FLUORESCENCE BORING
● ^{LY} LYSIMETER
○ ^{MW} MONITOR WELL
○ ^{PT} PERC TEST
○ ^{PZ} PIEZOMETER
○ ^{RW} RECOVERY WELL
○ ^{SB} SOIL BORING
○ ^{VP} SOIL VAPOR POINT
○ ^{VS} VAPOR SURVEY POINT

EXISTING TOPO SYMBOLS

AC AC UNIT
○ FENCE POST
▶ FLAG POLE
○ GUARD POST
➢ GUY ANCHOR
● GUY POLE
○ HANDICAP SYMBOL
○ MAILBOX
○ SHRUB
○ ^o SIGN DOUBLE POST
○ ^T SIGN SINGLE POST
● TREE CONIFER
● TREE DECIDUOUS
○ ^T TREE STUMP
○ ^{SD} TV DISH
○ ^T WETLAND SYMBOL
○ ^T YARD LIGHT

EXISTING UTILITY MUNICIPAL SYMBOLS

△ APRON
○ ^L LIFT STATION
○ SANITARY CLEANOUT
○ SANITARY MANHOLE
□ STORM CATCH BASIN
○ ^o STORM INLET

PROPOSED UTILITY MUNICIPAL SYMBOLS

◀ APRON PROPOSED
● ^{co} 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
■ ELEC TRANSFORMER BOX
■ GAS METER
■ GAS VALVE
■ LP TANK

TRAFFIC CONTROL DEVICES & SYMBOLS

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

EXISTING TOPOGRAPHIC LINES

— — — CENTER LINE
— — — EDGE OF WOODS
— X — X — FENCE BARB WIRE
— ○ — ○ — FENCE CHAIN LINK
— □ — □ — FENCE WOOD

PROPOSED CONSTRUCTION LINES

— ○ — ○ — FENCE CHAIN LINK PROPOSED
— □ — □ — FENCE WOOD PROPOSED
— X — X — FENCE BARB WIRE PROPOSED
— FM — — FORCemain
— SS — — SANITARY SERVICE PROPOSED

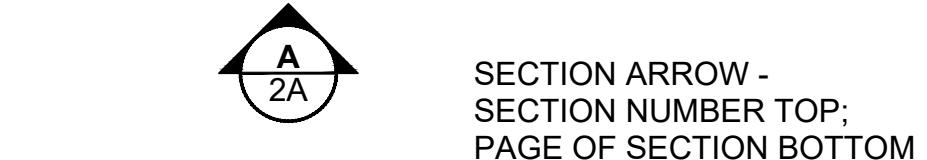
EROSION CONTROL LINES

— SF — SF — SILT FENCE
— HD — — SILT FENCE TYPE HEAVY DUTY
— MS — — SILT FENCE TYPE MACHINE SLICED
— PA — — SILT FENCE TYPE PREASSEMBLED
— W — W — FLOTATION SILT CURTAIN

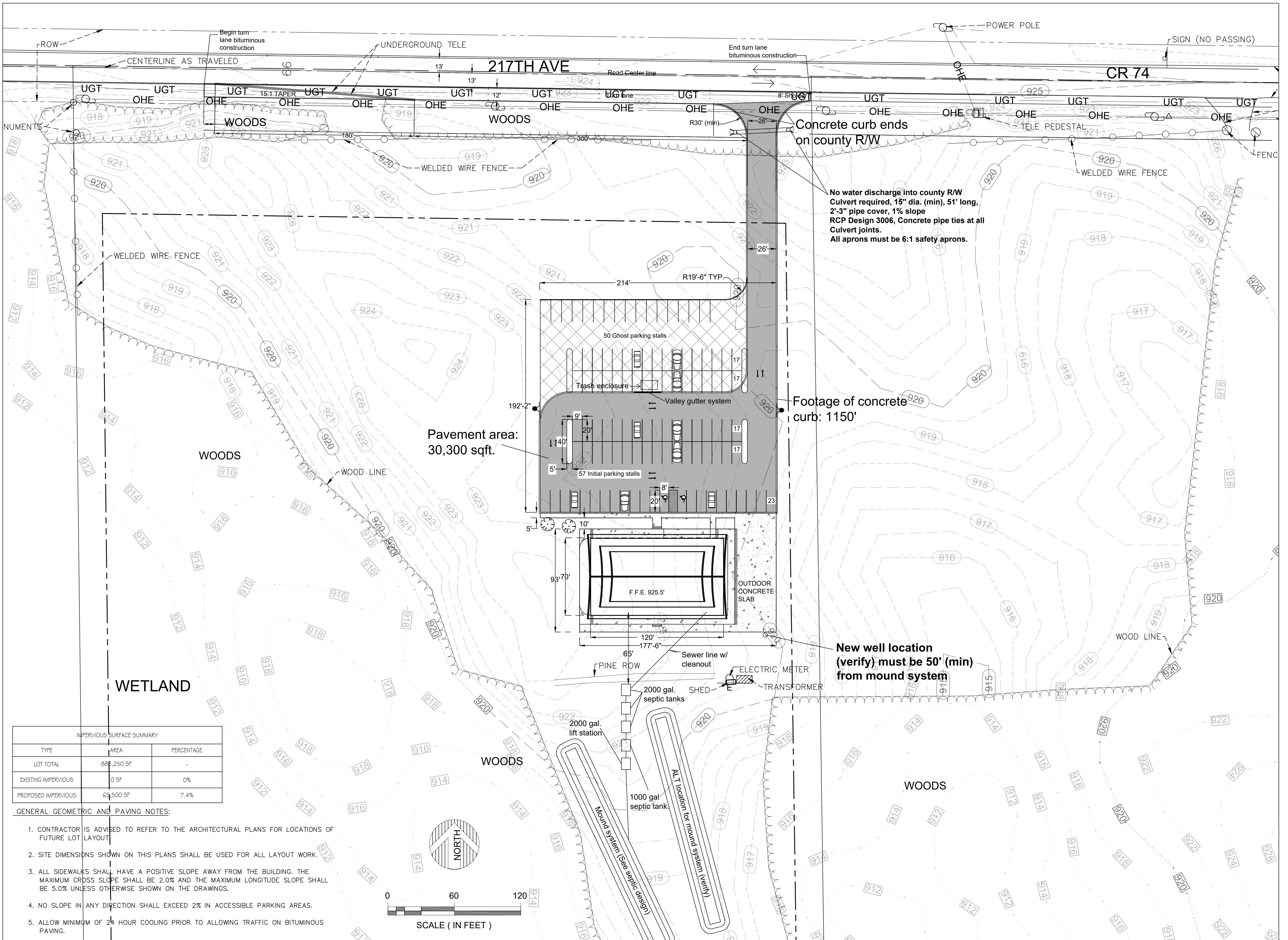
HATCH PATTERN AND SHADING LEGEND

	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



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



PROJECT

New East Bethel Temple

Vat Lao Xayabhoum REVISIONS

REVISION 1 : 6/17/2022

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AHR Construction Co.

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Becklin & Whitney

Consulting Engineers

DATE 10/19/2022

BY: Devonte Johnson

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

Civil Site Plan

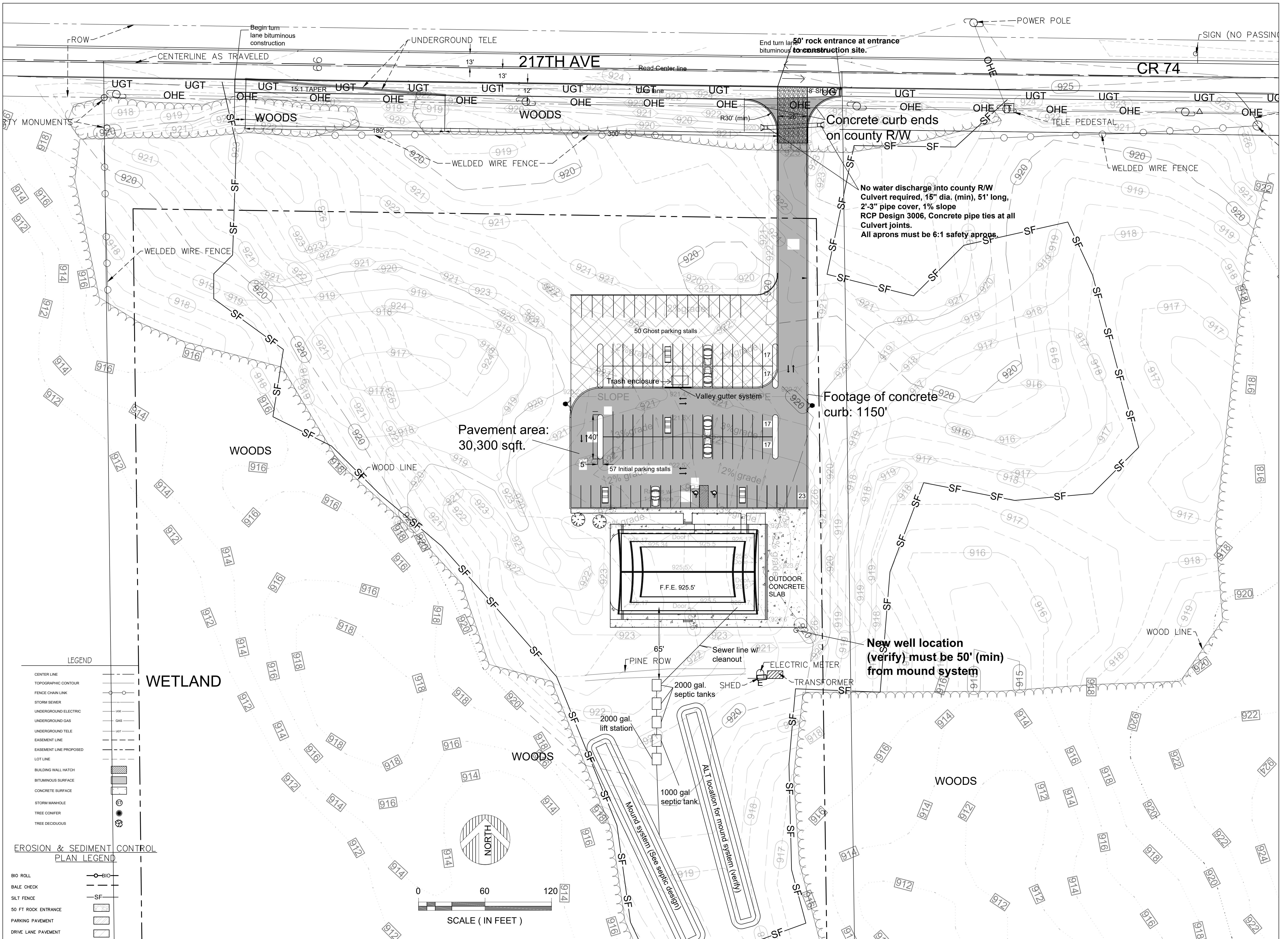
EMI Site Plan

Civil Site Plan

Civil Site Plan

61

22 24



PROJECT

New East Bethel Temple /at Lao Xayabhoumram

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2010 Erosion & Sediment Control Plan

C5

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 linear 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 or 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 grubbing, 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.

REVISION 1: 6/17/2022

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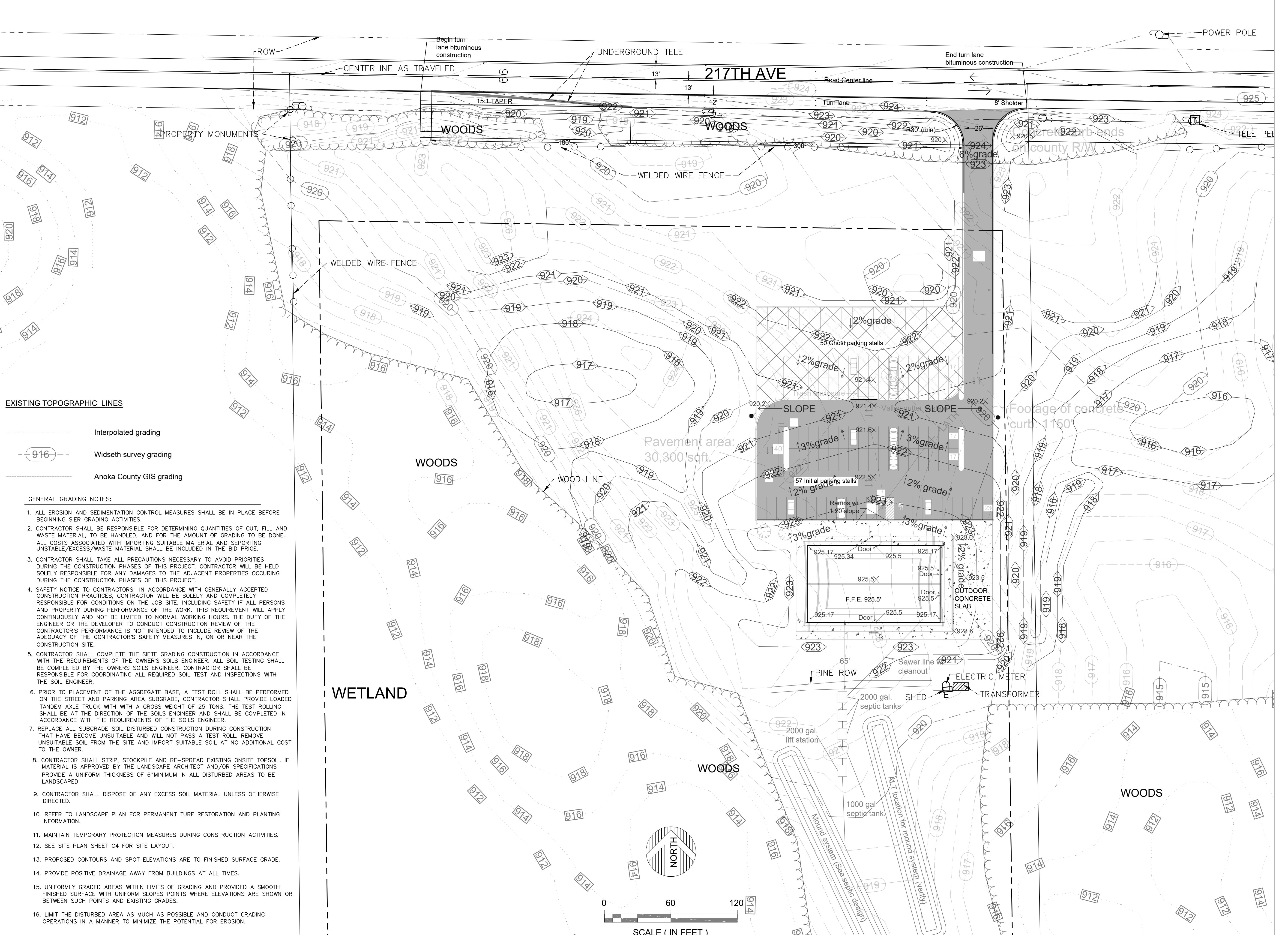
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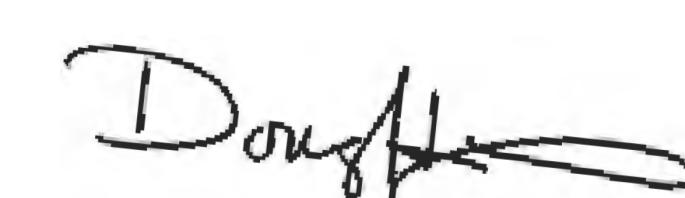
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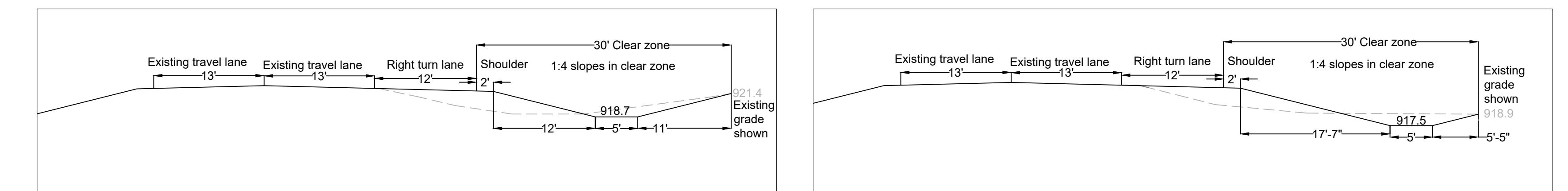
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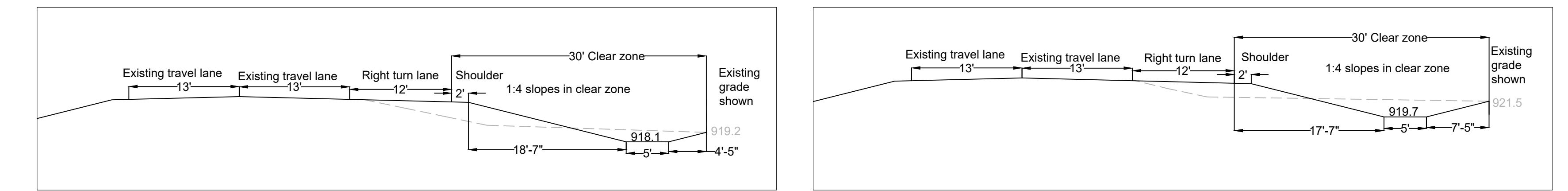
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 Douglas K. Whitney, P.E. License # 15910
 Date: October 19, 2022
Grading Plan
(Right turn lane)

C8.1

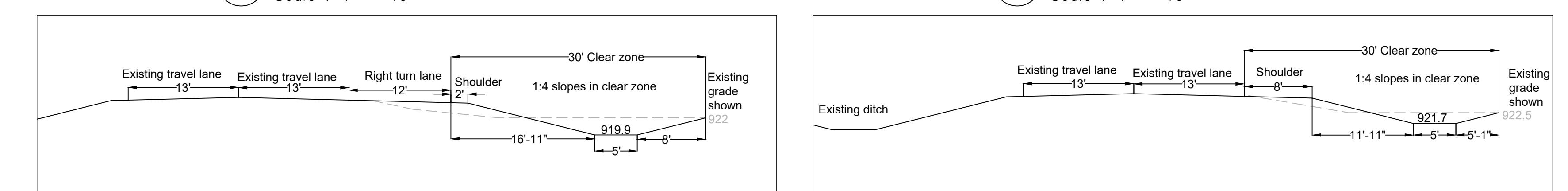
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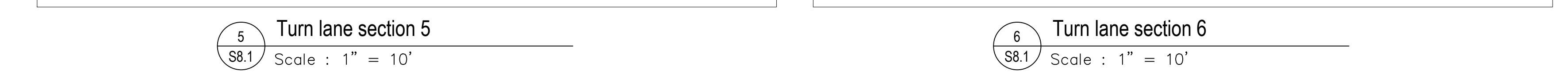
Turn lane section 2



Turn lane section 3



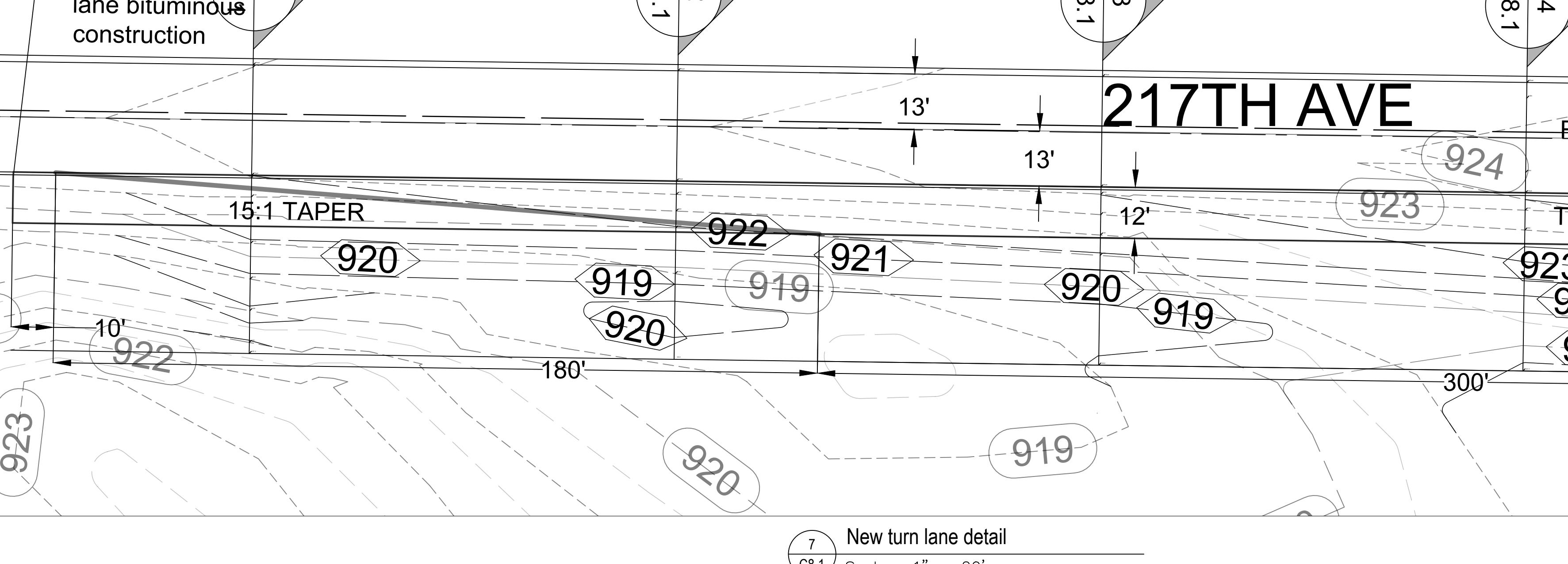
Turn lane section 4



Turn lane section 5



Turn lane section 6



New turn lane detail

C8.1 Scale : 1" = 20'

Douglas K. Whitney, P.E. License # 15910
Date: October 19, 2022Grading Plan
(Right turn lane)

C8.1

Page Size: 22 x 34

PROJECT

New East Bethel Temple

Wat Lao Xayaboummaram

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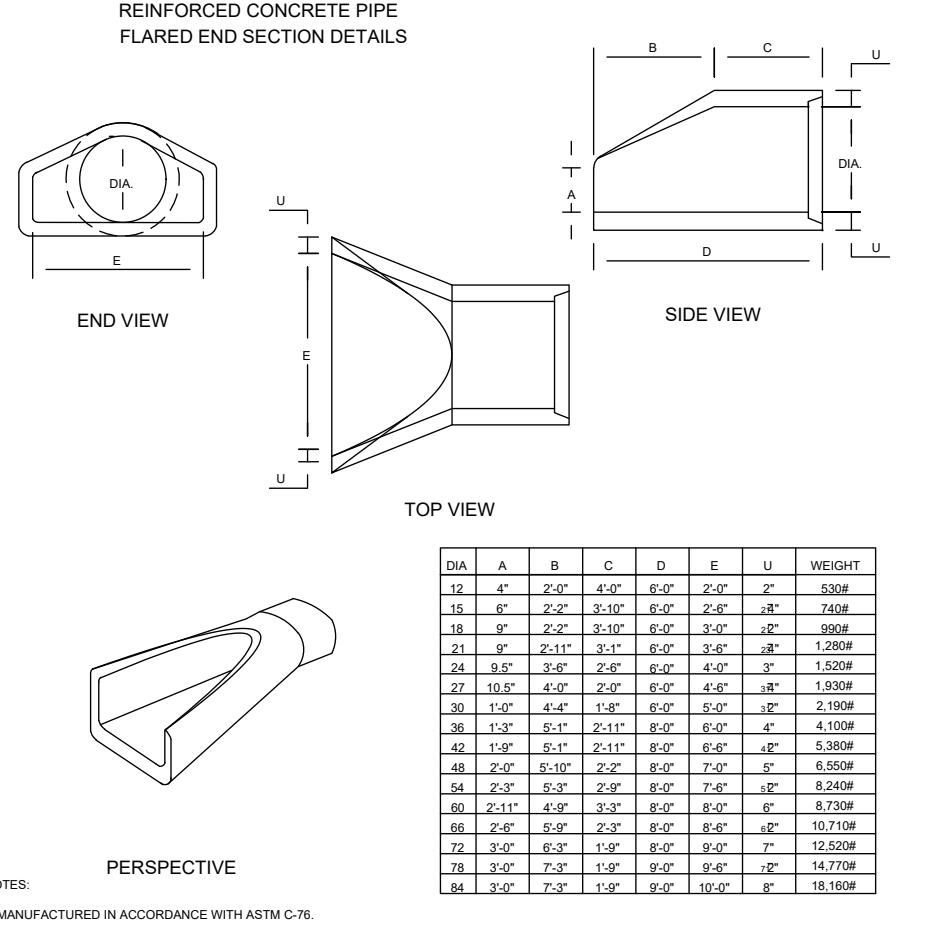
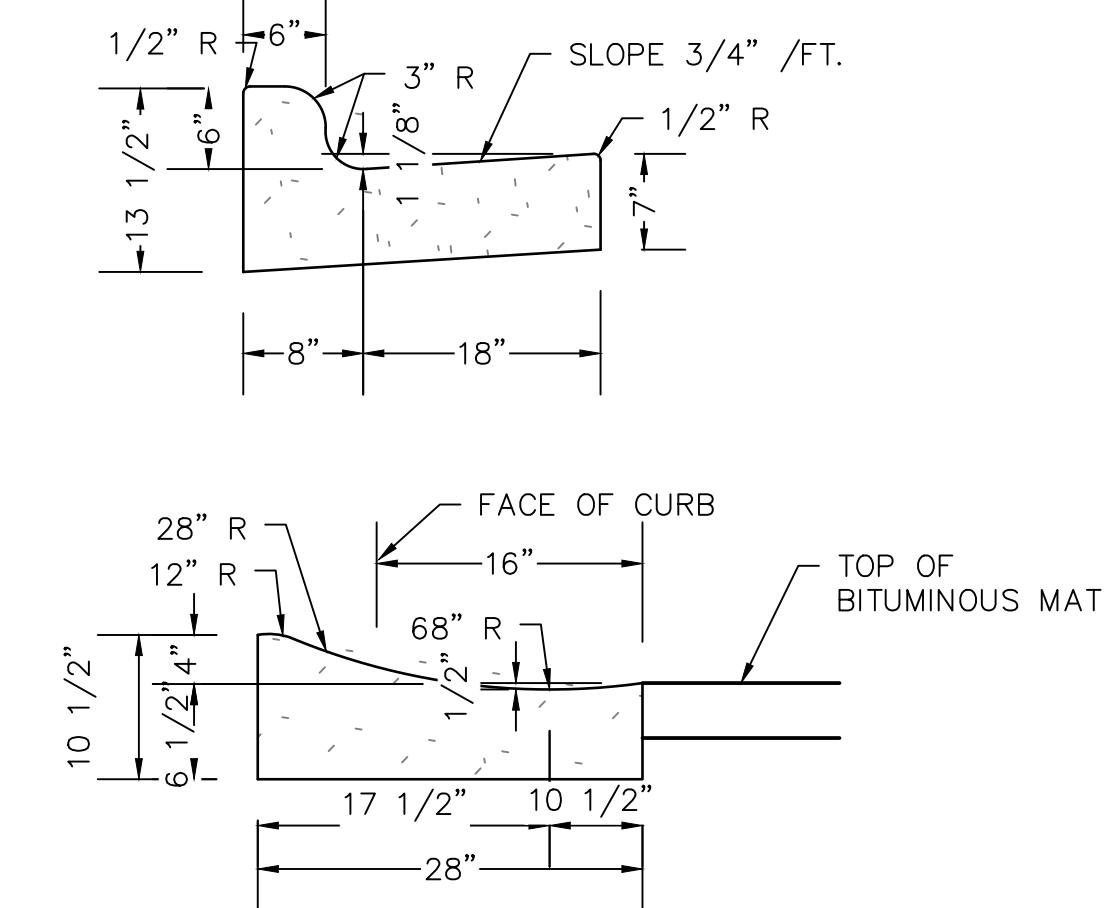
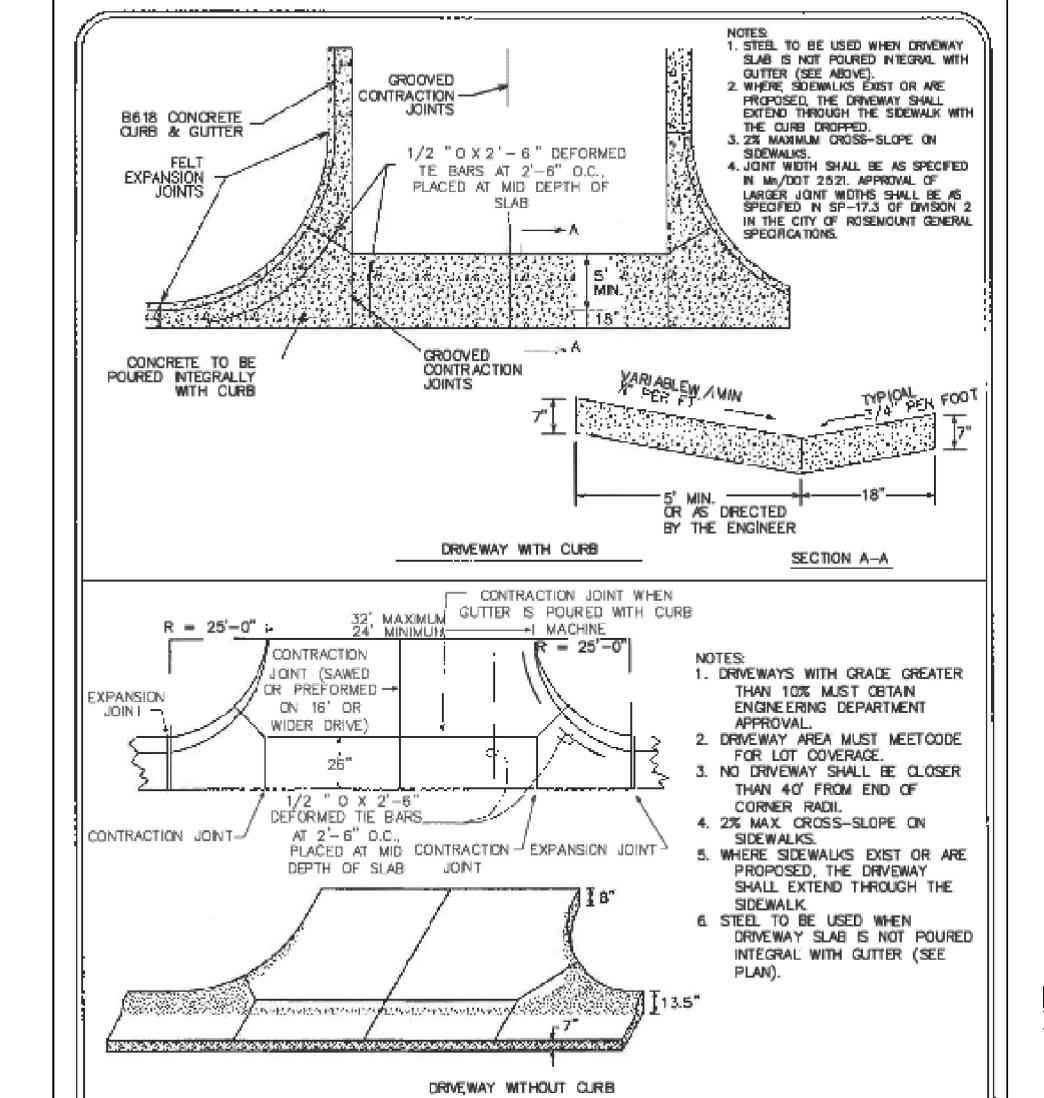
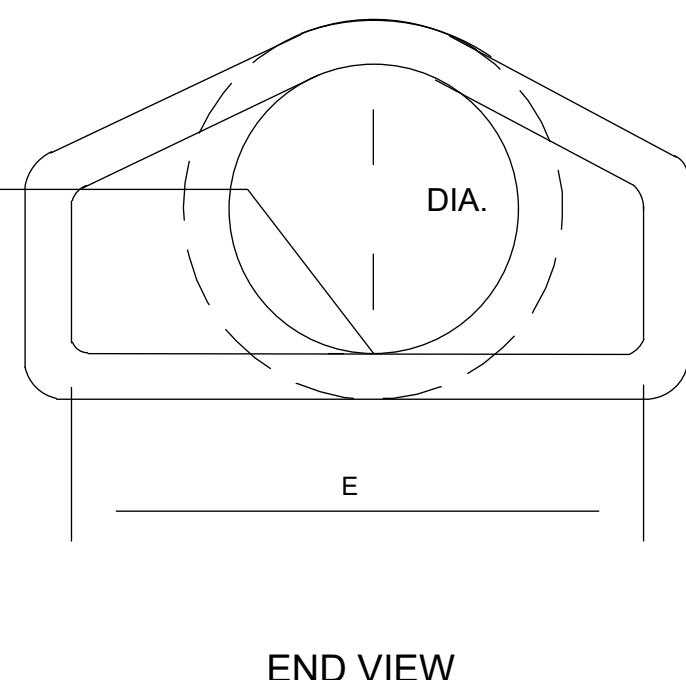
I HEREBY CERTIFY THAT THIS PLAN,
SPECIFICATION, OR REPORT WAS PREPARED
BY ME OR UNDER MY DIRECT SUPERVISION
AND THAT I AM A DULY REGISTERED
PROFESSIONAL ENGINEER UNDER THE LAWS
OF THE STATE OF MINNESOTA.

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

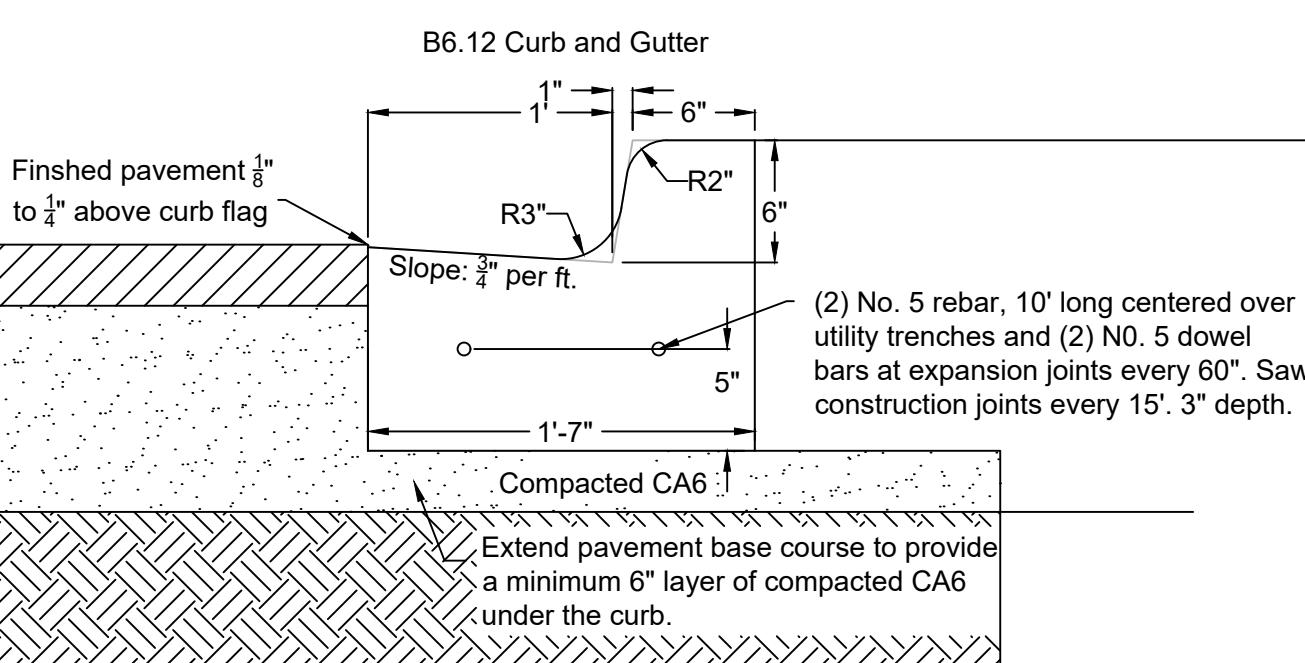
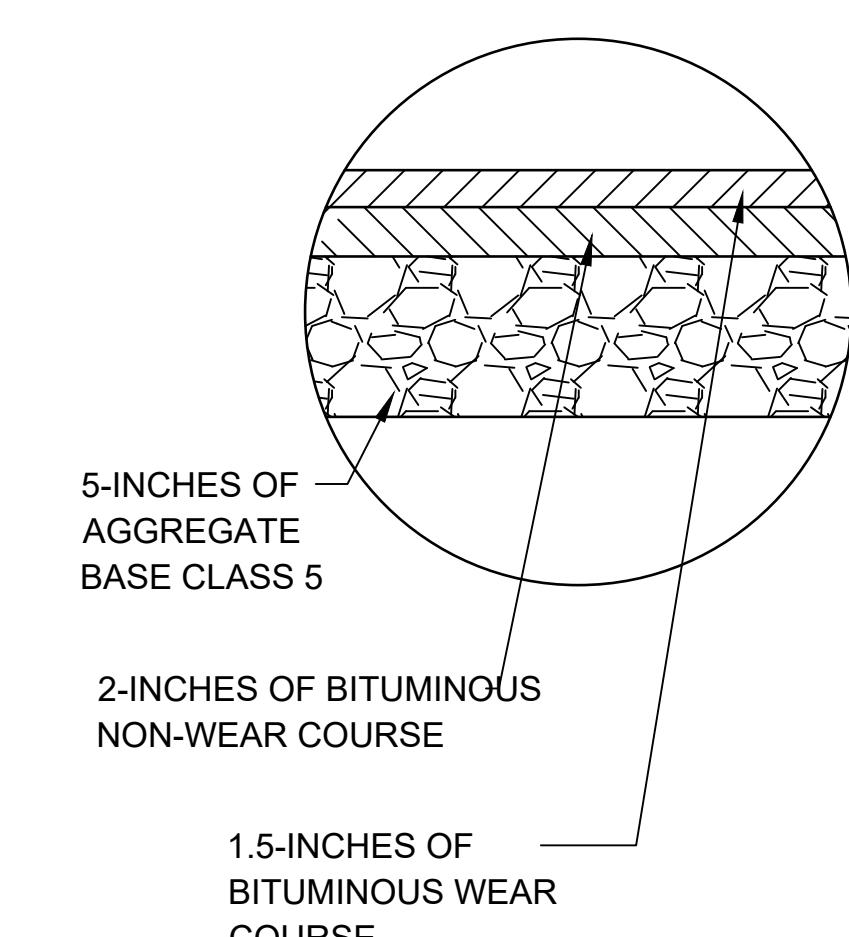
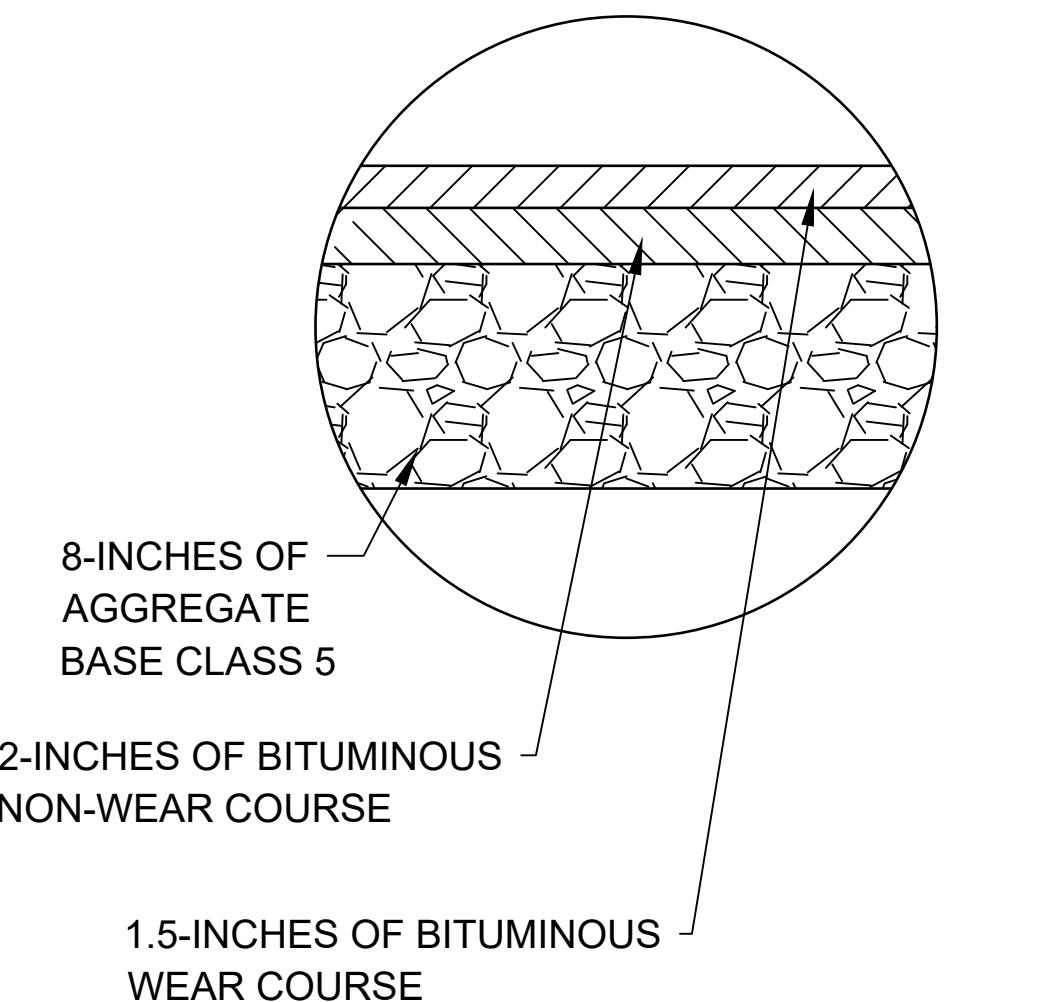
Details

C10

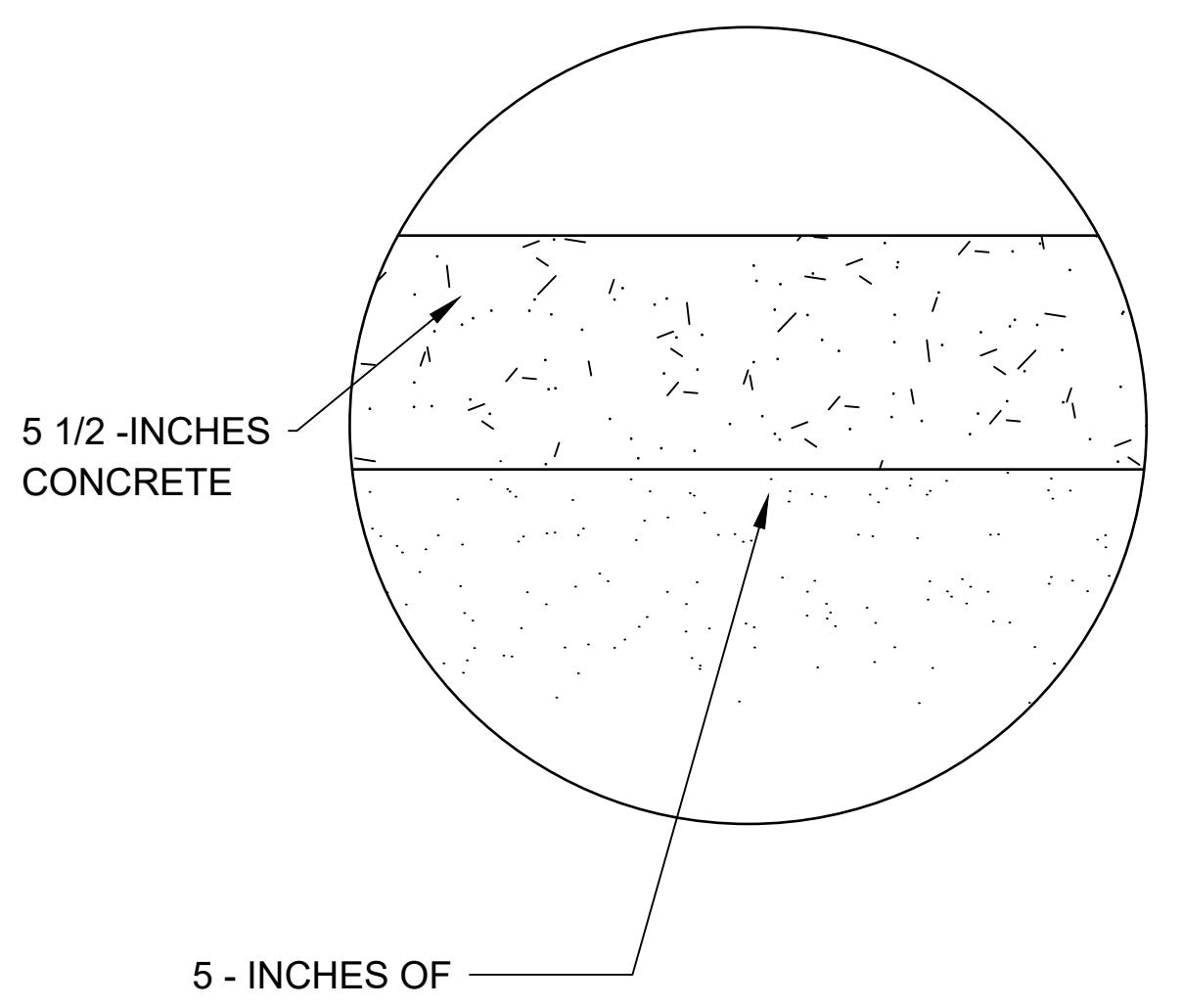
Page Size: 22 x 34

SEE UTILITY PLAN FOR
INVERT ELEVATIONNOTES:
1. MINIMUM OF 3" AGGREGATE BASE,
CLASS 5 UNDER ALL CURB AND GUTTER

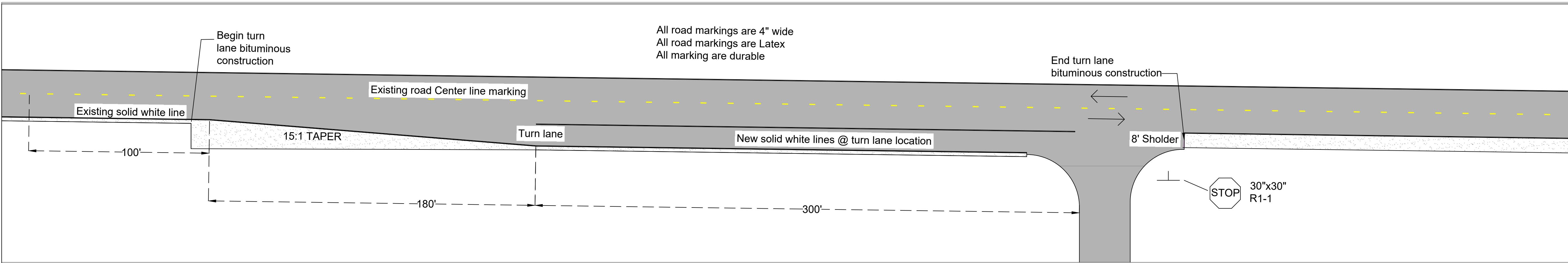
STM 1-C10	STORM SEWER	DRAWN BY: KG SCALE: NTS BECKLIN & WHITNEY CONSULTING ENGINEERS	STM 2-C10	STORM SEWER	DRAWN BY: KG SCALE: NTS BECKLIN & WHITNEY CONSULTING ENGINEERS	SITE 3-C10	CIVIL SITE	SCALE: NTS BECKLIN & WHITNEY CONSULTING ENGINEERS	SITE 4-C10	CIVIL SITE	DRAWN BY: KG SCALE: NTS BECKLIN & WHITNEY CONSULTING ENGINEERS
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SITE 5-C10	CIVIL SITE	DRAWN BY: KG SCALE: NTS BECKLIN & WHITNEY CONSULTING ENGINEERS	SITE 6-C10	CIVIL SITE	DRAWN BY: KG SCALE: NTS BECKLIN & WHITNEY CONSULTING ENGINEERS	SITE 7-C10	CIVIL SITE	DRAWN BY: DJ SCALE: NTS BECKLIN & WHITNEY CONSULTING ENGINEERS
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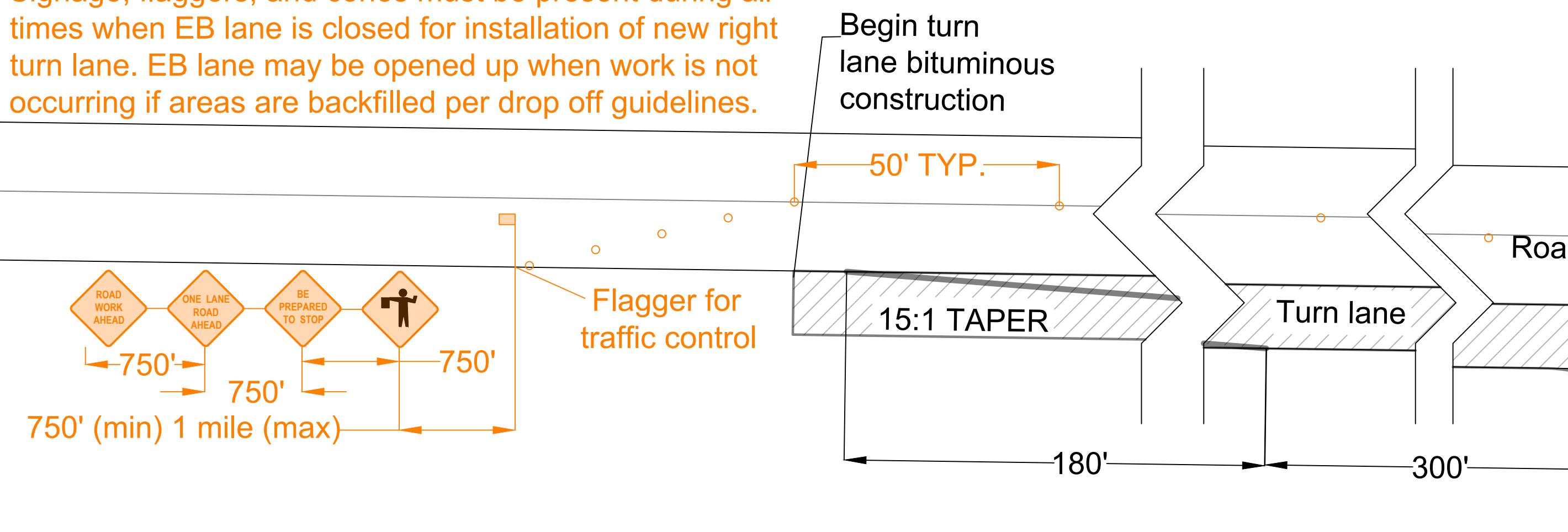


SITE 8-C10	CIVIL SITE	DRAWN BY: KG SCALE: NTS BECKLIN & WHITNEY CONSULTING ENGINEERS
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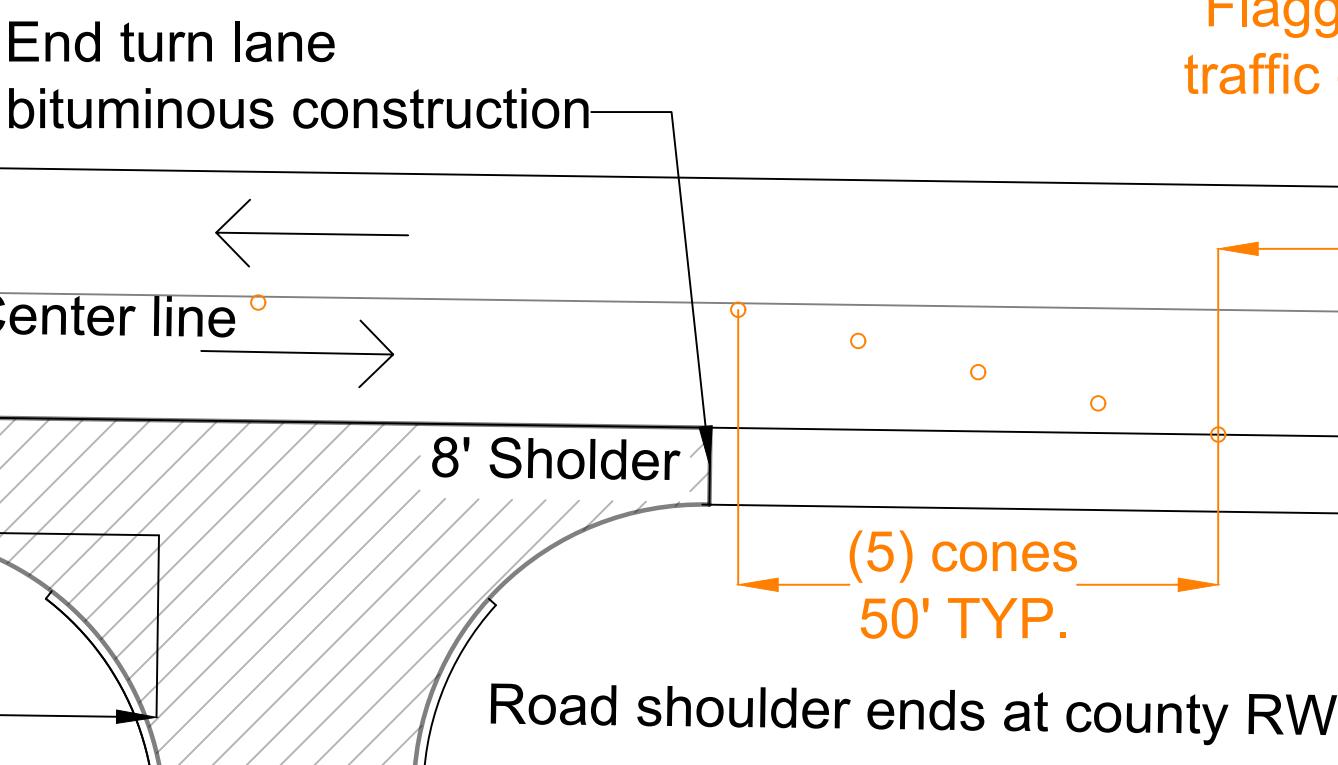


1
C12
Scale : 1" = 30'

Signage, flaggers, and cones must be present during all times when EB lane is closed for installation of new right turn lane. EB lane may be opened up when work is not occurring if areas are backfilled per drop off guidelines.

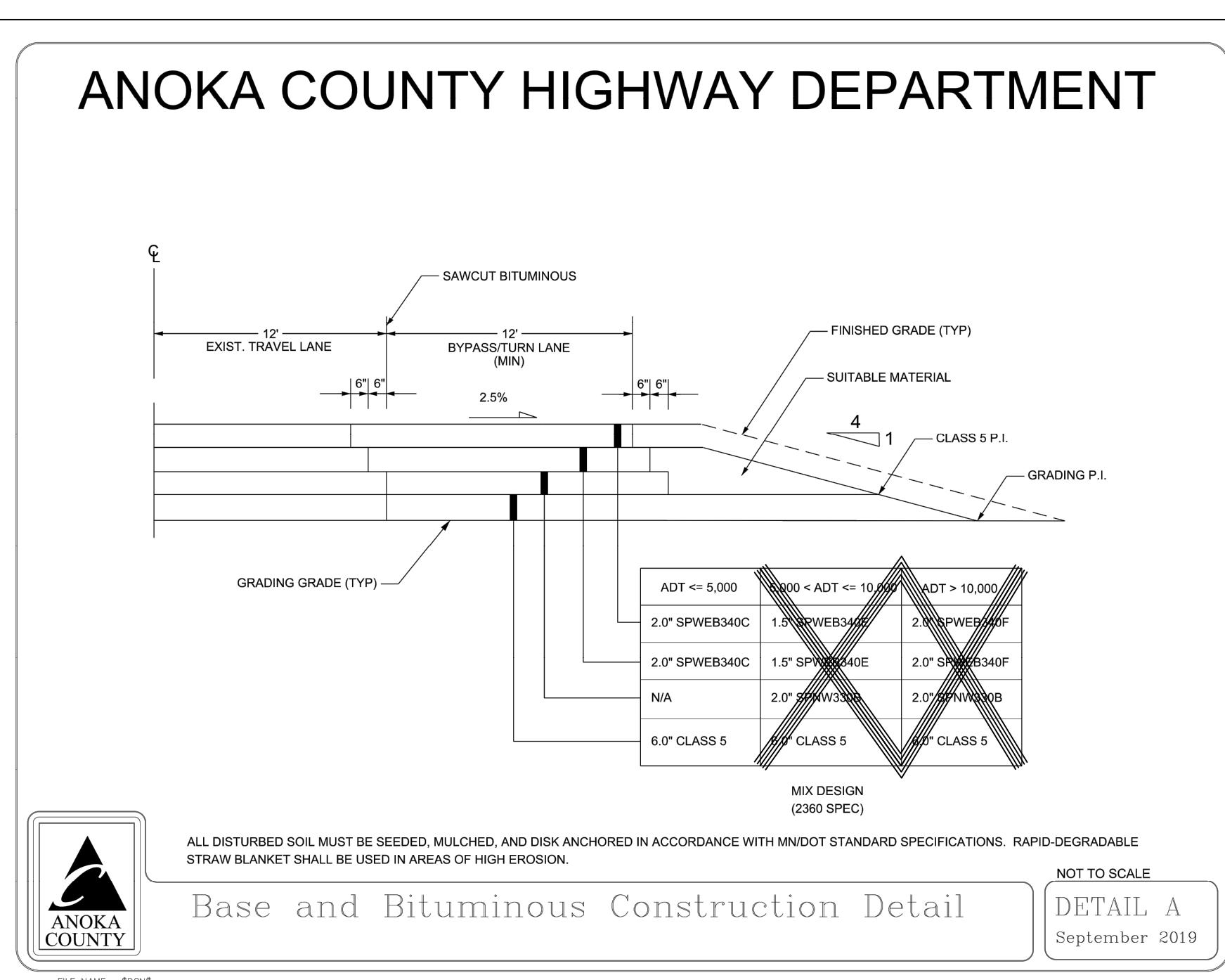


Notify all utilities prior to construction to allow for relocation



750' (min) 1 mile (max)
Flagger for traffic control
750' 750' 750' 750'

100'
(5) cones
50' TYP.



3
C12
Scale : NO SCALE

Base and bituminous construction details

Traffic control notes

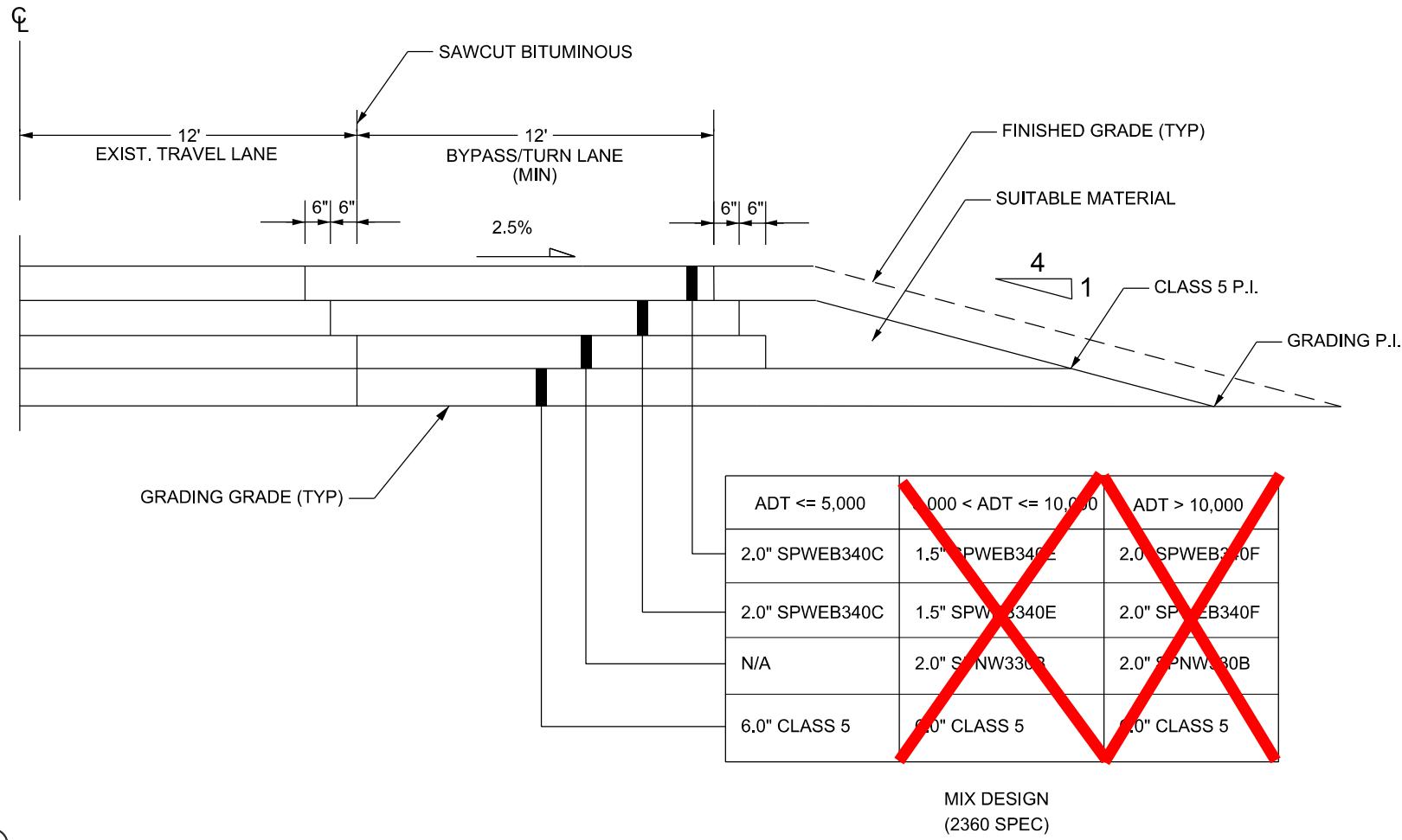
All construction must conform with MnDOT Road Design Manual.

800AADT used for roadway design
Design vehicle: WB-50
55MPH posted speed limit for area
Site distance: 285' per 5-2.02.02.01

0.5% (min) grade for highways
0.5% grade for first 25' of landing
6% (max) grade for entrance

CR74 Curb to match existing (no curb)

ANOKA COUNTY HIGHWAY DEPARTMENT

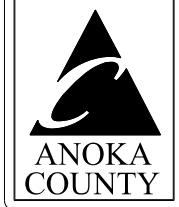


ALL DISTURBED SOIL MUST BE SEADED, MULCHED, AND DISK ANCHORED IN ACCORDANCE WITH MN/DOT STANDARD SPECIFICATIONS. RAPID-DEGRADABLE STRAW BLANKET SHALL BE USED IN AREAS OF HIGH EROSION.

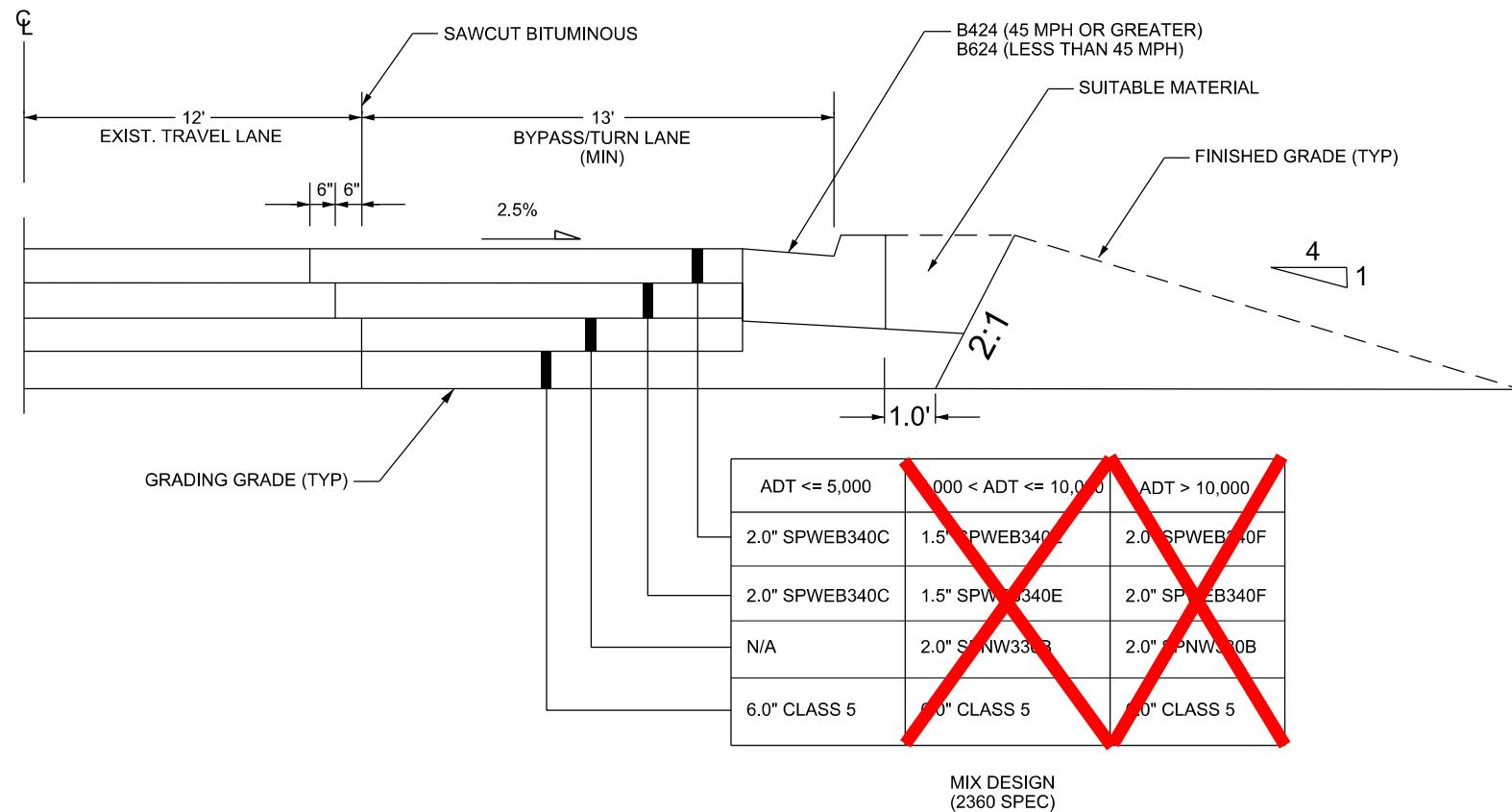
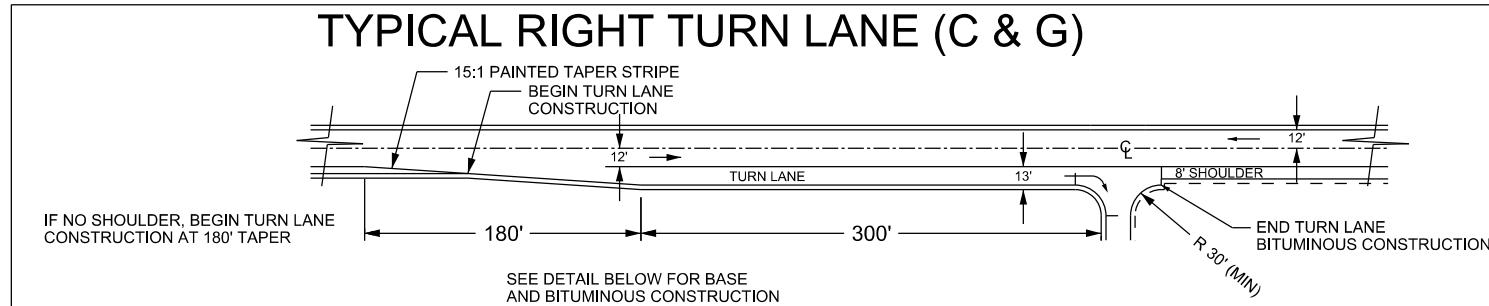
NOT TO SCALE

Base and Bituminous Construction Detail

DETAIL A
September 2019



ANOKA COUNTY HIGHWAY DEPARTMENT



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

NOT TO SCALE

Base and Bituminous Construction Detail
For Curb and Gutter Section

DETAIL A
January 2020

