



**US Army Corps
of Engineers®**

PUBLIC NOTICE

Omaha District, Regulatory Division, Denver Regulatory Office

**Permit Application
No. NWO-2025-
01265-DEN**

Published: August 12, 2026
Expires: September 11, 2026

Interested parties are hereby notified that the U.S. Army Corps of Engineers (USACE), Omaha District, Regulatory Division, Colorado Branch has received an application for a Department of the Army (DA) permit pursuant to Section 404 of the Clean Water Act (33 U.S.C. § 1344). The purpose of this public notice is to solicit comments from the public and information necessary to evaluate the probable impact on the public interest regarding the proposed activity as described below and as shown on the enclosed drawings.

APPLICANT: Molly Trujillo
SEMSWA
7437 Fairplay Street
Centennial, Colorado 80112

LOCATION OF PROPOSED ACTIVITY: The proposed activity would affect Waters associated with West Spring Creek. The project is located at latitude 39.570644, longitude -104.912657, in Section 32, Township 5 S, Range 67 W in Arapahoe County, Colorado.

PROPOSED ACTIVITY: The applicant is requesting a DA permit to discharge fill material into approximately 1,430 linear feet, or 0.234 acre of West Spring Creek streambed and abutting wetlands. The project would fill the existing channel invert to restore grade and reconnect the floodplain, using sheet pile to raise the local water table, ungrouted boulder drops, and cascades to control high flows. The bed and banks would be rebuilt with void-filled/soil riprap and soil lifts. The design also incorporates the existing storm sewer lines, adds a maintenance access path, and revegetates disturbed areas with native plant material.

Basic Project Purpose: Flow conveyance

Overall Project Purpose: The applicant's stated project purpose is to conduct stream and floodplain improvements in the project area to address safety concerns associated with flood conveyance through the project area and to protect existing infrastructure and private property.

MITIGATION: The applicant has provided the following information to explain how impacts to waters of the United States associated with the proposed activity are to be avoided, minimized, and compensated for: The proposed project has been designed to

minimize impacts on the stream channels, wetlands, and riparian areas to the greatest extent practicable. In addition to avoiding and minimizing direct impacts, Best Management Practices (BMPs) would be implemented during construction to minimize indirect impacts on the stream channel and riparian and upland areas. The applicant proposes to purchase 0.085 stream credits from a mitigation bank at a 1:1 ratio. Additionally, the applicant provided a qualitative assessment of stream functioning improvements that would result from the project that addresses the key parameters typically evaluated in a Colorado Stream Quantification Tool assessment. The USACE will determine the type and amount of compensatory mitigation necessary to offset losses of waters of the United States which may result from the proposed activity in accordance with 33 CFR § 332.

HISTORIC PROPERTIES/CULTURAL RESOURCES: Section 106 of the National Historic Preservation Act of 1966, as amended (54 U.S.C. § 306108), requires Federal agencies to consult with the appropriate State and/or Tribal Historic Preservation Officers to take into account the effects of actions they undertake or permit on historic properties listed in or eligible for listing in the National Register of Historic Places.

The USACE is evaluating the undertaking for effects to historic properties as required under Section 106 of the National Historic Preservation Act. This public notice serves to inform the public of the proposed undertaking and invites comments including those from local, State, and Federal government agencies with respect to historic resources.

The USACE's final eligibility and effect determination relative to historic resource impacts may be subject to additional coordination with the State Historic Preservation Officer, federally recognized tribes, and other interested parties, and with full consideration given to the proposed undertaking's potential direct and indirect effects on historic properties within the USACE-identified permit area.

ENDANGERED SPECIES: Section 7 of the Endangered Species Act (ESA) (16 U.S.C. § 1536) requires federal agencies to consult with the National Marine Fisheries Service (NMFS) and/or U.S. Fish and Wildlife Service (USFWS) on all actions that may affect a species listed (or proposed for listing) under the ESA as threatened or endangered or that may adversely modify designated critical habitat (or critical habitat proposed such designation). USACE's preliminary review indicates the described activity will have no effect on any threatened or endangered species or designated critical habitat.

Pursuant to Section 7 ESA, any required consultation with the Service will be conducted in accordance with 50 CFR part 402. The U.S. Federal Highway Administration (FHWA) is the lead Federal agency for ESA consultation for the proposed action. Any required consultation will be completed by FHWA. USACE will consider comments from this public notice, including any comments provided by the NMFS and/or USFWS, regarding the need to consult.

NAVIGATION: The proposed structure or activity is not located in the vicinity of a federal navigation channel.

SECTION 408: The applicant will not require permission under Section 14 of the Rivers and Harbors Act of 1899 (33 U.S.C. § 408) because the activity, in whole or in part, would not alter, occupy, or use a USACE Civil Works project.

WATER QUALITY CERTIFICATION: An Individual Water Quality Certification may be required from the Colorado Department of Public Health and Environment pursuant to Section 401 of the Clean Water Act (33 U.S.C. § 1341).

NATIONAL WILD AND SCENIC RIVERS: Coordination with the U.S. Forest Service may be initiated pursuant to Section 7 of the Wild and Scenic Rivers Act (16 U.S.C. § 1278).

NOTE: This public notice is being issued based on information furnished by the applicant. This information has not been verified or evaluated to ensure compliance with laws and regulation governing the regulatory program. The geographic extent of aquatic resources within the proposed project area that either are, or are presumed to be, within the USACE jurisdiction has not been verified by USACE personnel.

EVALUATION: The decision whether to issue a permit will be based on an evaluation of the probable impact including cumulative impacts of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefits, which reasonably may be expected to accrue from the proposal, must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered including cumulative impacts thereof; among these are conservation, economics, aesthetics, general environmental concerns, wetlands, historical properties, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, considerations of property ownership, and in general, the needs and welfare of the people. Evaluation of the impact of the activity on the public interest will also include application of the guidelines promulgated by the Administrator, Environmental Protection Agency (EPA), under authority of Section 404(b) of the Clean Water Act or the criteria established under authority of Section 102(a) of the Marine Protection Research and Sanctuaries Act of 1972. A permit will be granted unless its issuance is found to be contrary to the public interest.

COMMENTS: The USACE is soliciting comments from the public; Federal, State, and local agencies and officials; Tribal Nations; and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the USACE to determine whether to issue, modify, condition, or deny a permit for this proposed activity. To make this determination, comments are used to assess impacts to endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are

used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity. Any comments or objections which are received during this period may be forwarded to the applicant for possible resolution before the determination is made whether to issue or deny the requested permit. Please note that all comments received will become part of the administrative record and are subject to public release under the Freedom of Information Act.

Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider the application. Requests for public hearings shall state, with particularity, the reasons for holding a public hearing. Requests for a public hearing will be granted, unless the District Engineer determines that the issues raised are insubstantial or there is otherwise no valid interest to be served by a hearing.

The Omaha District, Regulatory Division, Denver Regulatory Office will receive written comments on the proposed activity, as outlined above, until September 11, 2026. Comments should be submitted electronically via the Regulatory Request System (RRS) at <https://rrs.usace.army.mil/rrs/public-notice>. Alternatively, you may submit comments to Ellison Koonce at Ellison.A.Koonce@usace.army.mil or U.S. Army Corps of Engineers, Denver Regulatory Office, Attention: Ellison Koonce, 9307 S Wadsworth Blvd., Littleton, CO 80128. Please reference USACE File Number **NWO-2025-01265-DEN** in your comments.

CITY OF CENTENNIAL NOTES

[illegible]

- SHALL BE SOLELY RESPONSIBLE FOR ESTABLISHING MEANS AND METHODS OF GROUND AND SURFACE WATER CONTROL APPROPRIATE FOR CONSTRUCTION IN ACCORDANCE WITH THE REQUIREMENTS OF THE PROJECT DRAWINGS AND SPECIFICATIONS AND ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS AND PERMITS.
22. THE CONTRACTOR SHALL PREPARE AND MAINTAIN THE STORMWATER MANAGEMENT PLAN AND OBTAIN THE NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT THROUGH THE COLORADO DEPARTMENT OF PUBLIC HEALTH (CDPHE) AND ALL OTHER APPROPRIATE FEDERAL, STATE AND LOCAL PERMITS. ADDITIONAL INFORMATION IS PROVIDED ON THE GRADING AND EROSION CONTROL PLANS.
23. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ON-SITE SURVEY CONTROL AND CONSTRUCTION STAKING.
24. CONTRACTOR SHALL FENCE OFF CRITICAL AREAS TO BE PROTECTED AT THE DISCRETION OF SEMSWA.
25. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING AND MAINTAINING PHYSICAL AND LEGAL ACCESS TO THE PROJECT SITE AND SHALL LIMIT TRANSPORTATION TO AND FROM THE SITE TO THOSE APPROVED BY ARAPAHOE COUNTY.
26. THE CONTRACTOR SHALL TAKE MEASURES TO PREVENT AND MANAGE SPILLS OF TOXIC MATERIALS, SUCH AS EQUIPMENT FUELS.
27. THE LOCATIONS OF EXISTING ABOVE GROUND AND UNDERGROUND UTILITIES ARE SHOWN IN THEIR APPROXIMATE LOCATIONS ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. CONTRACTOR TO CALL FOR UTILITIES LOCATOR AT LEAST 3 CALENDAR DAYS BEFORE EARTHWORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY THEIR FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL ABOVE GROUND AND UNDERGROUND UTILITIES. IN THE EVENT THAT THE CONTRACTOR UTILITY VERIFICATION RESULTS IN EXISTING STRUCTURES OR UTILITIES BEING IN CONFLICT WITH THE PROPOSED WORK OF THIS CONTRACT, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY UTILITIES AND COORDINATE ANY NEEDED MODIFICATIONS TO THE PROPOSED WORK AS DIRECTED BY AFFECTED AGENCY OR UTILITY.
28. THE CONTRACTOR SHALL COORDINATE WITH ALL AFFECTED UTILITY OWNERS TO ESTABLISH THE REQUIREMENTS AND METHODS TO ACCOMMODATE THE PROTECTION, TEMPORARY SUPPORT, ADJUSTMENT OR RELOCATION OF UTILITIES PRIOR TO THE START OF CONSTRUCTION.
29. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING AND MAINTAINING IN CONTINUOUS OPERATION, ALL EXISTING STRUCTURES. NOT ALL POTENTIALLY IMPACTED STRUCTURES MAY BE SHOWN ON THE DRAWINGS AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO IDENTIFY AND PROTECT ALL STRUCTURES INCLUDING BUT NOT LIMITED TO STREETS, CURB AND GUTTER, BRIDGE PIERS AND ABUTMENTS, CREEK BANK PROTECTION OF VARIOUS TYPES, CREEK DROP STRUCTURES, SIGNS, PEDESTRIAN WALKS, RETAINING WALLS AND FENCING. IN THE EVENT THAT A STRUCTURE OR UTILITY IS DAMAGED DURING CONSTRUCTION THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER OF THE FACILITY IN WRITING AND COORDINATE AND COOPERATE WITH NEEDED REPAIRS PER THE APPROPRIATE SPECIFICATIONS ACCORDING TO THE OWNER'S DIRECTION.
30. THE CONTRACTOR SHALL CONFIRM THE RECEIPT OF ALL NECESSARY PERMITS AND APPROVALS BEFORE THE START OF CONSTRUCTION.
31. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STANDARDS OF SEMSWA AND THE MILE HIGH FLOOD DISTRICT, AS NOTED, UNLESS SPECIFICALLY DETAILED OTHERWISE ON THESE PLANS AND ASSOCIATED SPECIFICATIONS.
32. THE CONTRACTOR SHALL MAINTAIN AT THE SITE AT ALL TIMES ONE SIGNED COPY OF THE PROJECT DRAWINGS AND SPECIFICATIONS, ONE COPY OF THE STORMWATER MANAGEMENT PLAN AND ONE COPY OF ALL REQUIRED PERMITS.
33. THE CONTRACTOR SHALL CONDUCT THEIR OPERATIONS IN SUCH A WAY THAT THE AREA OF DISTURBANCE IS MINIMIZED. ALL EXISTING TREES, SHRUBS AND VEGETATION SHALL BE PROTECTED UNLESS OTHERWISE NOTED ON THE DRAWINGS. NO TREES SHALL BE REMOVED WITHOUT APPROVAL. DESIGNATED ACCESS SHALL BE MINIMAL AND AGREED UPON WITH THE ENGINEER PRIOR TO CONSTRUCTION ACTIVITIES.
34. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR PROVIDING STABLE EXCAVATIONS AND TEMPORARY SLOPES AND FOR SATISFYING ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS. THIS INCLUDES BUT IS NOT LIMITED TO BENCHING, SHORING, AND SLOPING AS NEEDED FOR CONSTRUCTION.
35. ALL MATERIALS USED SHALL BE NEW AND WITHOUT FLAWS OR DEFECTS OF ANY TYPE AND SHALL BE THE BEST OF THEIR CLASS AND KIND.
36. WORK INCLUDES FURNISHING OF LABOR, MATERIALS, TOOLS, AND EQUIPMENT TO COMPLETE THE CONSTRUCTION OF ALL ELEMENTS OF THE DESIGN PLANS.

- ALL AREAS DISTURBED BY CONSTRUCTION.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ROADWAYS FREE AND CLEAR OF ALL CONSTRUCTION DEBRIS AND DIRT TRACKED FROM THE SITE AND SHALL REMOVE ALL DEBRIS RESULTING FROM WORK UNDER THIS CONTRACT TO AN APPROVED DUMP SITE.
5. LOCATION OF EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR AT LEAST 48 HOURS BUT NO MORE THAN 1 WEEK PRIOR TO CONSTRUCTION OR EXCAVATION. FOR INFORMATION, CONTACT UTILITY NOTIFICATION CENTER OF COLORADO (UNCC), AT 1-800-922-1987. THE CONTRACTOR MUST VERIFY PERTINENT LOCATIONS AND ELEVATIONS, ESPECIALLY AT CONNECTION POINTS AND AT POTENTIAL UTILITY CONFLICTS, AND THE CONTRACTOR IS RESPONSIBLE FOR RELOCATING ALL EXISTING UTILITIES THAT CONFLICT WITH THESE PLANS IN COORDINATION WITH THE RESPECTIVE UTILITY COMPANIES. NOTE THAT SEMSWA AND OTHER UTILITY ENTITIES DO NOT PARTICIPATE IN UNCC AND WILL REQUIRE DIRECT CONTACT FOR THESE LOCATE SERVICES.
6. THE CONTRACTOR SHALL COORDINATE WITH THE RESPECTIVE UTILITY COMPANIES PRIOR TO REMOVAL AND/OR RELOCATION OF UTILITIES TO ASSURE CONSTRUCTION IS ACCOMPLISHED IN A TIMELY FASHION AND WILL MINIMAL DISRUPTION TO SERVICE. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING, IN ADVANCE, ALL PARTIES AFFECTED BY ANY DISRUPTION OF UTILITY SERVICE.
7. THE INSTALLATION OF UTILITIES SHALL BE DONE IN SUCH A MANNER AS TO MINIMIZE POTENTIAL UTILITY CONFLICTS. IN GENERAL, STORM SEWER AND SANITARY SEWER SHOULD BE CONSTRUCTED PRIOR TO INSTALLATION OF FUEL LINES, GAS LINES AND DRY UTILITIES.
8. IF ANY INFORMATION NECESSARY FOR CONSTRUCTION IS NOT PROVIDED FOR IN THESE PLANS AND SPECIFICATIONS, THE CITY OF CENTENNIAL, ROADWAY DESIGN AND CONSTRUCTION STANDARDS SHALL APPLY IF NECESSARY INFORMATION IS NOT PROVIDED IN CITY OF CENTENNIAL, ROADWAY DESIGN AND CONSTRUCTION STANDARDS, THE FOLLOWING DOCUMENTS SHALL APPLY, IN THE ORDER OF PRECEDENCE PRESENTED:
- COLORADO DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION
 - MGPCE PAVEMENT DESIGN STANDARDS AND CONSTRUCTION SPECIFICATIONS MANUAL, LATEST EDITION
 - ARAPAHOE COUNTY INFRASTRUCTURE DESIGN AND CONSTRUCTION STANDARDS, LATEST EDITION

- Kimley»»Horn**
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6200 S SYRACUSE WAY, SUITE 300
GREENWOOD VILLAGE, CO 80221 (303) 228-2300

DESIGNED BY: CKR
DRAWN BY: CKP
CHECKED BY: TOS
DATE: 6/15/2026

BRING CREEK DOWNSTREAM E PHILLIPS
 VENUE CHANNEL IMPROVEMENTS
 100% CONSTRUCTION DRAWINGS
 GENERAL NOTES

PRELIMINARY
FOR REVIEW ONLY
NOT FOR
CONSTRUCTION
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PROJECT NO.
196159002

SHEET
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Know what's below.
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1. THIS IS A STANDARD DRAWING SHOWING COMMON SYMBOLLOGY. ALL SYMBOLS ARE NOT NECESSARILY USED ON THIS PROJECT.
2. SCREENING OR SHADING OF WORK IS USED TO INDICATE EXISTING COMPONENTS OR TO DE-EMPHASIZE PROPOSED IMPROVEMENTS TO HIGHLIGHT SELECTED TRADE WORK. REFER TO CONTEXT OF EACH DRAWING FOR USAGE.
3. THESE ABBREVIATIONS APPLY TO THE ENTIRE SET OF CONTRACT DRAWINGS.
4. LISTING OF ABBREVIATIONS DOES NOT IMPLY THAT ALL ABBREVIATIONS ARE USED IN THE CONTRACT DRAWINGS.
5. ABBREVIATIONS SHOWN ON THIS SHEET INCLUDE VARIATIONS OF A WORD. FOR EXAMPLE, "MOD" MAY MEAN MODIFY OR MODIFICATION; "INC" MAY MEAN INCLUDED OR INCLUDING AND "REINF" MAY MEAN EITHER REINFORCE OR REINFORCING.

ASPHALT CONCRETE	W/	WITH
APPROX	APPROXIMATE	
ASTM	AMERICAN SOCIETY OF TESTING AND MATERIALS	
BOW	BOTTOM OF WALL	
BP OR BOP	BEGINNING OF PROJECT	
CLR	CLEARANCE	
CDOT	COLORADO DEPARTMENT OF TRANSPORTATION	
COM	COMMUNICATIONS	
CONC	CONCRETE	
DIFF	DIFFERENCE	
DWG	DRAWING	
E	EAST OR ELECTRIC	
EA	EACH	
ELEV	ELECTRIC OR ELEVATION	
EP OR EOP	END OF PROJECT	
ESMT	EASEMENT	
EW	EACH WAY	
EX/EXIST	EXISTING	
FES	FLARED END SECTION	
FG	FINISHED GRADE	
FL	FLOW LINE	
FT	FOOT/FEET	
GSB	GROUTED SLOPING BOULDERS	
HCL	HORIZONTAL CONTROL LINE	
HP	HIGH POINT	
K	VERTICAL CURVE RATIO	
LF	LINEAR FEET	
LP	LOW POINT	
LT	LEFT	
MAINT	MAINTENANCE	
ME	MATCH EXISTING	
MIN	MINIMUM	
N	NORTH	
NE	NORTHEAST	
NO	NUMBER	
NW	NORTHWEST	
PROP	PROPOSED	
R	RADIUS	
RD	ROAD	
REV	REVISION	
RT	RIGHT	
R/W	RIGHT-OF-WAY	
S	SOUTH	
SD	STORM DRAIN	
SE	SOUTHEAST	
SF	SQUARE FEET	
SS	SANITARY SEWER	
ST	STREET	
STA	STATION	
SW	SIDEWALK OR SOUTHWEST	
SY	SQUARE YARDS	
TB	THRUST BLOCK	
TOW	TOP OF WALL	
TYP	TYPICAL	
VTC	VEHICLE TRACKING CONTROL	
WA	WATER	
WE	WEST	

@	AT
Ø	PHASE, DIAMETER
&	AND
'	FEET, MINUTES
"	INCHES, SECONDS
°	DEGREE
#	NUMBER
℄	CENTERLINE

SYMBOL OR LINETYPE	DESCRIPTION
-----XXXX-----	EXISTING MAJOR CONTOUR
-----XXXX-----	EXISTING MINOR CONTOUR
-----	PROPERTY LINE
-----G-----	GAS LINE
-----W-----	WATER LINE
-----OH-----	OVERHEAD POWER
-----ST-----	STORM LINE
-----E-----	UNDERGROUND POWER LINE
-----SS-----	SANITARY LINE
-----FO-----	COMMUNICATION LINE, FIBER OPTIC
-----T-----	COMMUNICATION LINE, TELEPHONE
=====	CURB AND GUTTER
	TREE/SHRUB
	SIGN
	TRAFFIC SIGNAL
	GAS VALVE
	LIGHT POLE
	POWER POLE
	GUY WIRE
	WATER VALVE
	FIRE HYDRANT
=====	EXISTING 100-YEAR FEMA BOUNDARY

SYMBOL OR LINETYPE	DESCRIPTION
	PROPOSED CHANNEL MAJOR CONTOUR
	PROPOSED CHANNEL MINOR CONTOUR
	PROPOSED SITE MAJOR CONTOUR
	PROPOSED SITE MINOR CONTOUR
	PROPOSED STREAM CENTERLINE ALIGNMENT
	PROPOSED STREAM TOE
	PROPOSED STREAM BANKFULL
	PROPOSED STREAM BANKFULL BENCH (BACK)
	STREAMSIDE ZONE
	TOP OF BANK
	PROPOSED TYPE M VOID-FILLED RIPRAP
	PROPOSED GRAVEL MAINTENANCE PATH
	PROPOSED 1-FT SOIL LIFTS
	PROPOSED SHEETPILE CUTOFF WALL
	PROPOSED LIMITS OF CONSTRUCTION
	PROPOSED BOULDER SILL
	PROPOSED MARKER POST

[illegible]

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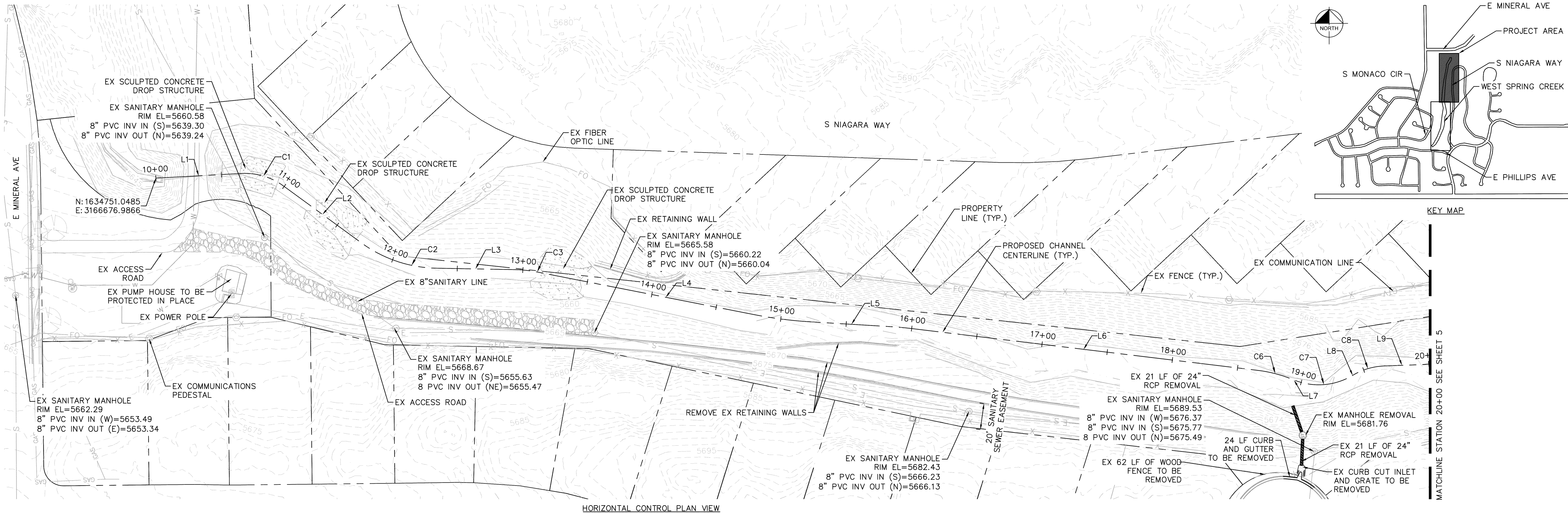
DESIGNED BY: CKP
DRAWN BY: CKP
CHECKED BY: TOS
DATE: 6/15/2026

WEST SPRING CREEK DOWNSTREAM E PHILLIPS
AVENUE CHANNEL IMPROVEMENTS
100% CONSTRUCTION DRAWINGS
LEGEND AND SYMBOLS

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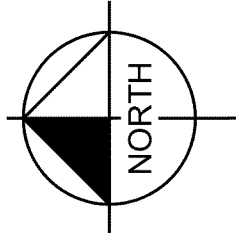
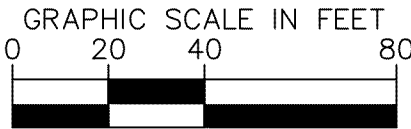


LINE TABLE			CURVE TABLE						
LINE	LENGTH	BEARING	CURVE	RADIUS	LENGTH	CHORD BEARING	CHORD	DELTA	TANGENT
L1	65.11	S3°09'51.16"E	C1	50.00'	34.33'	S16°30'19"W	33.66'	39°20'20"	17.87'
L2	73.47	S36°10'29.00"W	C2	100.00'	61.33'	S18°36'22"W	60.37'	35°08'14"	31.66'
L3	59.39	S1°02'15.15"W	C3	100.00'	17.59'	S6°04'40"W	17.57'	10°04'50"	8.82'
L4	168.67	S11°07'05.57"W	C6	100.00'	26.46'	S14°28'18"W	26.38'	15°09'38"	13.31'
L5	64.05	S3°27'20.58"W							
L6	267.76	S6°53'29.26"W							

BASIS OF BEARING:
BEARINGS ARE BASED UPON THE SOUTH LINE OF THE SOUTHEAST QUARTER OF SECTION 31, TOWNSHIP 5 SOUTH, RANGE 66 WEST OF THE 6TH P.M., WHICH BEARS S89°39'59"W AND IS MONUMENTED AT THE SOUTH QUARTER CORNER OF SECTION 31 BY A 3-1/4" ALUMINUM CAP LS 29039 AND AT THE SOUTHEAST CORNER OF SECTION 31 BY A 3-1/4" ALUMINUM CAP LS 29039 PER ARAPAHOE COUNTY'S HORIZONTAL CONTROL NETWORK.

BENCHMARK

NGS CONTROL MONUMENT C-378 RESET 1989 ELEV = 5814.13 (USGS
NGVD 29 DATUM) ELEVATION ADJUSTED TO NAVD 1988 ON 5-14-2008
BY LS NO. 29766 USING CORPSON; ELEV = 5817.04
TBM: CONTROL POINT 90 A 2-1/2 INCH ALUM CAP ELEV = 5804.01
(NAVD 88)
NAIL/DISK ON TOP OF CONCRETE STORM SEWER VAULT ELEV = 5735.90
(NAVD 88)

[illegible]

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**WEST SPRING CREEK DOWNSTREAM E PHILLIPS
AVENUE CHANNEL IMPROVEMENTS
100% CONSTRUCTION DRAWINGS
SURVEY CONTROL & EXISTING CONDITIONS**

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SHEET
4 OF 28



K:\NEW_WATERRESOURCES\19619002_WEST SPRING CREEK 60% DESIGN\CAD\PLANS\19619002_SRW.DWG
THIS DOCUMENT, TOGETHER WITH THE CONCEPTS AND DESIGNS PRESENTED HEREIN, IS AN INSTRUMENT OF SERVICE. IT IS INTENDED ONLY FOR THE SPECIFIED PURPOSE, AND CLIENT FOR WHICH IT WAS PREPARED. REUSE OF AND IMPROPER RELIANCE ON THIS DOCUMENT WITHOUT WRITTEN AUTHORIZATION AND ADAPTATION BY KIMLEY-HORN AND ASSOCIATES, INC. SHALL BE WITHOUT LIABILITY TO KIMLEY-HORN AND ASSOCIATES, INC.

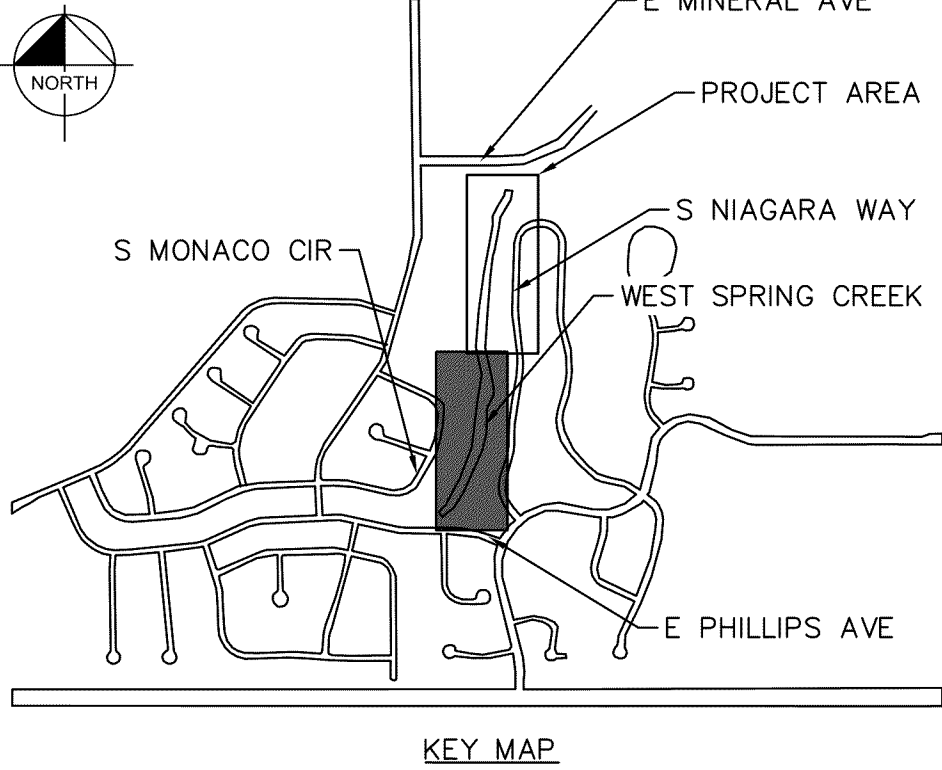
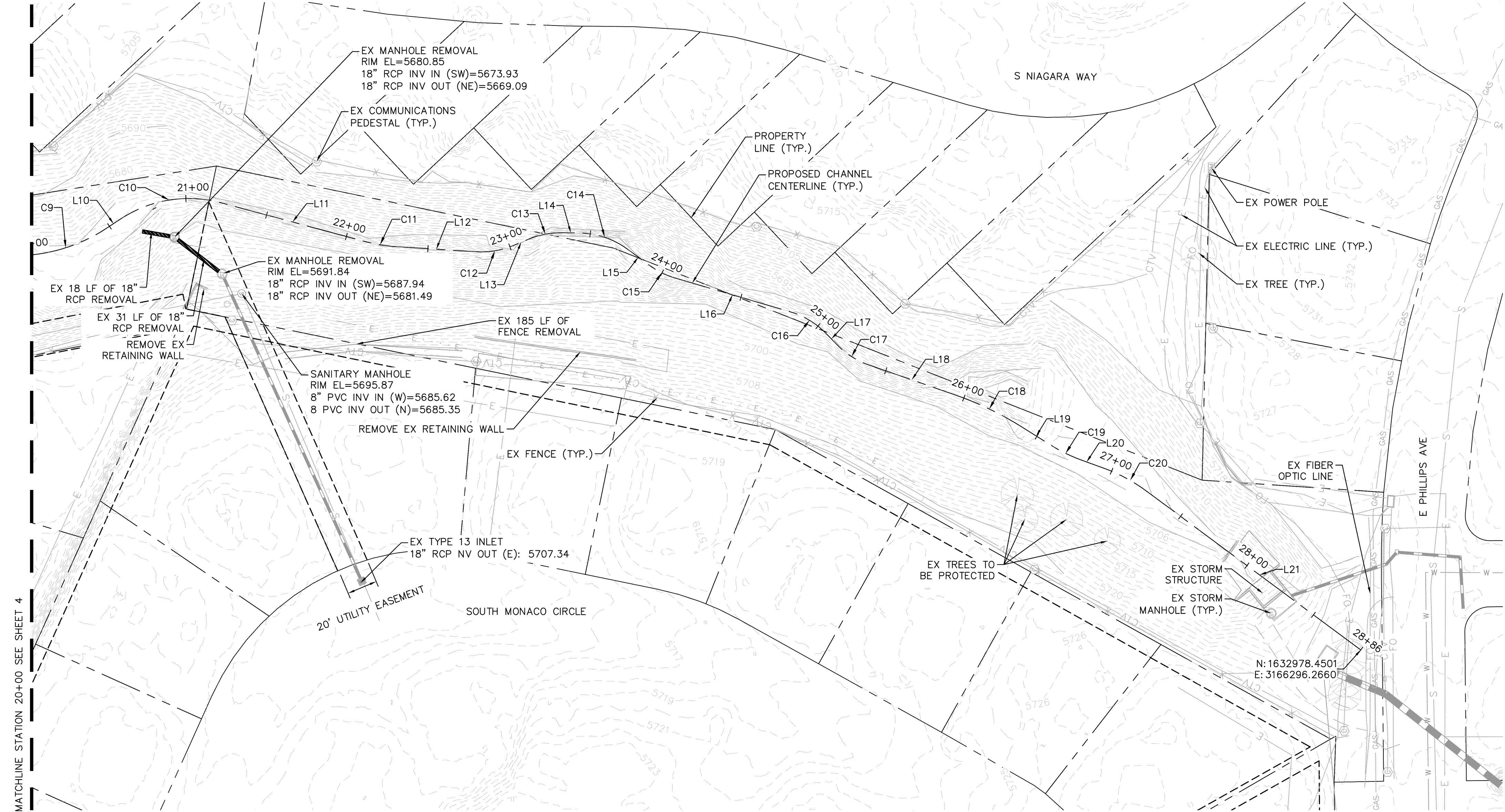
MATCHLINE STATION 20+00 SEE SHEET 4

LINE TABLE			CURVE TABLE						
LINE	LENGTH	BEARING	CURVE	RADIUS	LENGTH	CHORD BEARING	CHORD	DELTA	TANGENT
L7	1.99	S22°03'07.17"W	C7	50.00'	46.39'	S4°31'31"E	44.74'	53°09'15"	25.01'
L8	0.06	S31°06'08.21"E	C8	50.00'	25.36'	S16°34'18"E	25.09'	29°03'40"	12.96'
L9	27.00	S2°02'27.76"E	C9	100.00'	54.73'	S17°43'09"E	54.05'	31°21'23"	28.07'
L10	10.33	S33°23'50.73"E	C10	75.00'	63.48'	S9°08'53"E	61.61'	48°29'56"	33.78'
L11	89.39	S15°06'05.33"W	C11	100.00'	19.97'	S9°22'53"W	19.93'	11°26'24"	10.02'
L12	48.27	S3°39'41.39"W	C12	50.00'	22.68'	S9°20'04"E	22.49'	25°59'30"	11.54'
L13	10.78	S22°19'48.74"E	C13	50.00'	20.24'	S10°43'51"E	20.11'	23°11'56"	10.26'
L14	10.60	S0°52'06.87"W	C14	50.00'	30.93'	S18°35'28"W	30.44'	35°26'42"	15.98'
L15	16.62	S36°18'49.06"W	C15	50.00'	17.42'	S26°20'05"W	17.33'	19°57'29"	8.80'
L16	72.40	S16°21'20.10"W	C16	50.00'	25.82'	S31°09'00"W	25.54'	29°35'20"	13.21'
L17	9.14	S45°56'39.76"W	C17	50.00'	23.39'	S32°32'27"W	23.18'	26°48'25"	11.91'
L18	54.77	S19°08'14.49"W	C18	200.00'	45.50'	S25°39'17"W	45.40'	13°02'06"	22.85'
L19	19.99	S32°10'20.09"W	C19	100.00'	21.39'	S26°02'37"W	21.35'	12°15'27"	10.74'
L20	14.18	S19°54'53.51"W	C20	100.00'	29.05'	S28°14'12"W	28.95'	16°38'38"	14.63'
L21	161.52	S36°33'31.40"W							

HORIZONTAL CONTROL PLAN VIEW

NOTES

1. CONSIDERING THE DEPTH OF THE PIPE, THE STORM SEWER PIPE TO BE REMOVED COULD BE FLOW FILLED AS AN ALTERNATIVE TO BEING REMOVED.

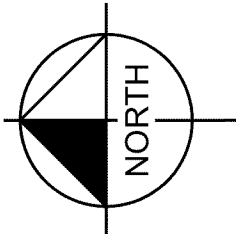
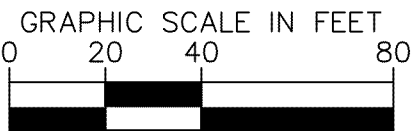


BASIS OF BEARING:

BEARINGS ARE BASED UPON THE SOUTH LINE OF THE SOUTHEAST QUARTER OF SECTION 31, TOWNSHIP 5 SOUTH, RANGE 66 WEST OF THE 6TH P.M., WHICH BEARS S89°39'59"W AND IS MONUMENTED AT THE SOUTH QUARTER CORNER OF SECTION 31 BY A 3-1/4 ALUMINUM CAP LS 29039 AND AT THE SOUTHEAST CORNER OF SECTION 31 BY A 3-1/4" ALUMINUM CAP LS 29039 PER ARAPAHOE COUNTY'S HORIZONTAL CONTROL NETWORK.

BENCHMARK

NGS CONTROL MONUMENT C-378 RESET 1989 ELEV = 5814.13 (USGS NGVD 29 DATUM) ELEVATION ADJUSTED TO NAVD 1988 ON 5-14-2008 BY LS NO. 29766 USING CORPSCON; ELEV = 5817.04
TBM: CONTROL POINT 90 A 2-1/2 INCH ALUM CAP ELEV = 5804.01 (NAVD 88)
NAIL/DISK ON TOP OF CONCRETE STORM SEWER VAULT ELEV = 5735.90 (NAVD 88)



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SURVEY CONTROL & EXISTING CONDITIONS

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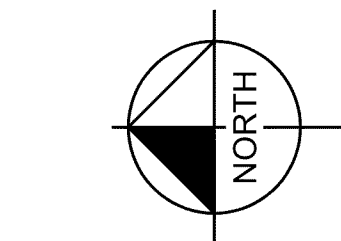
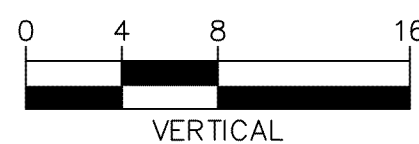
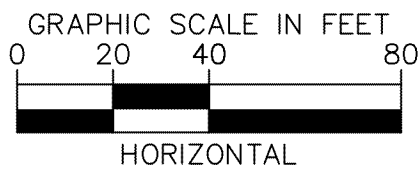
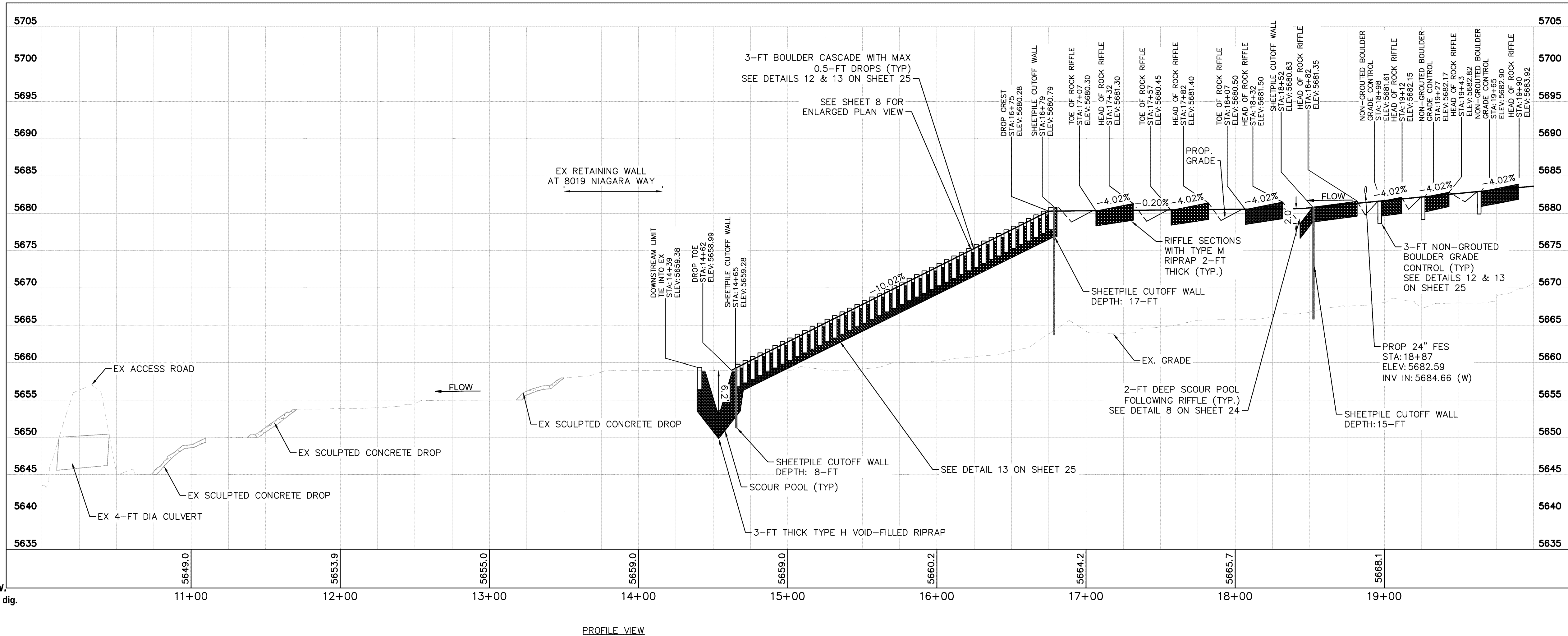
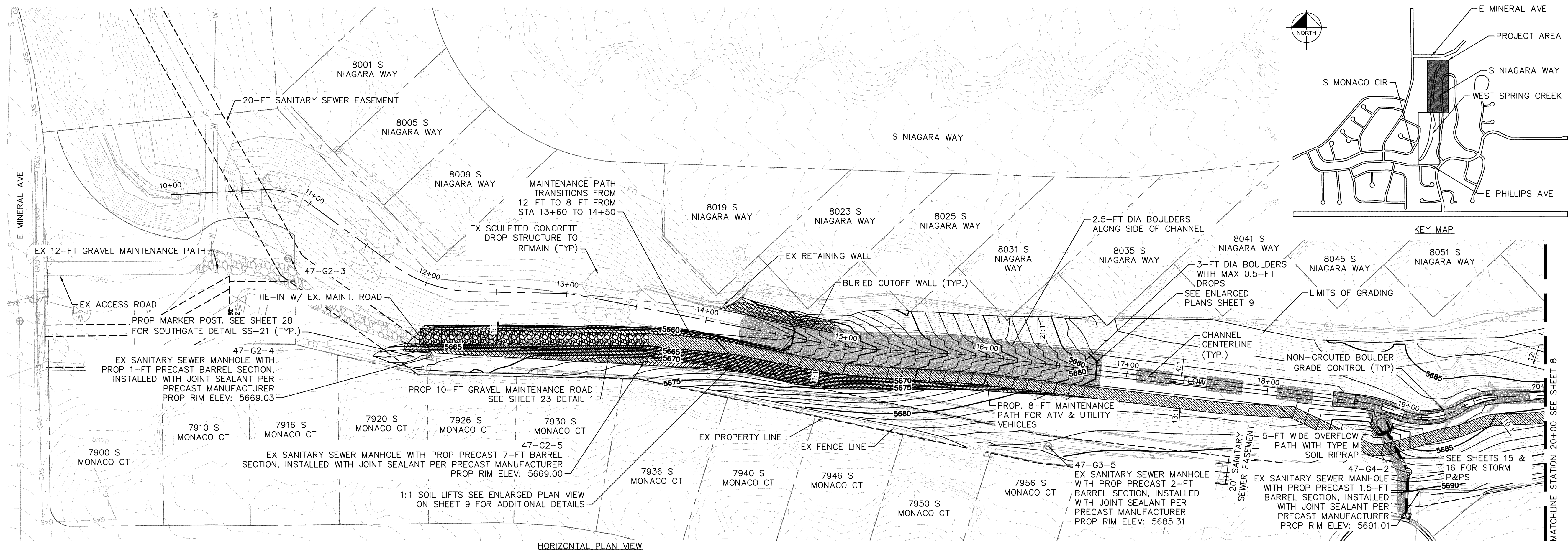
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NOTES:

1. SEE SHEETS 13 AND 14 FOR STRUCTURE STATION AND ELEVATIONS.
2. SEE SHEET 2 FOR NOTES ON CHANNEL FILL AND SOUTHGATE SANITATION DISTRICT SANITARY SEWER



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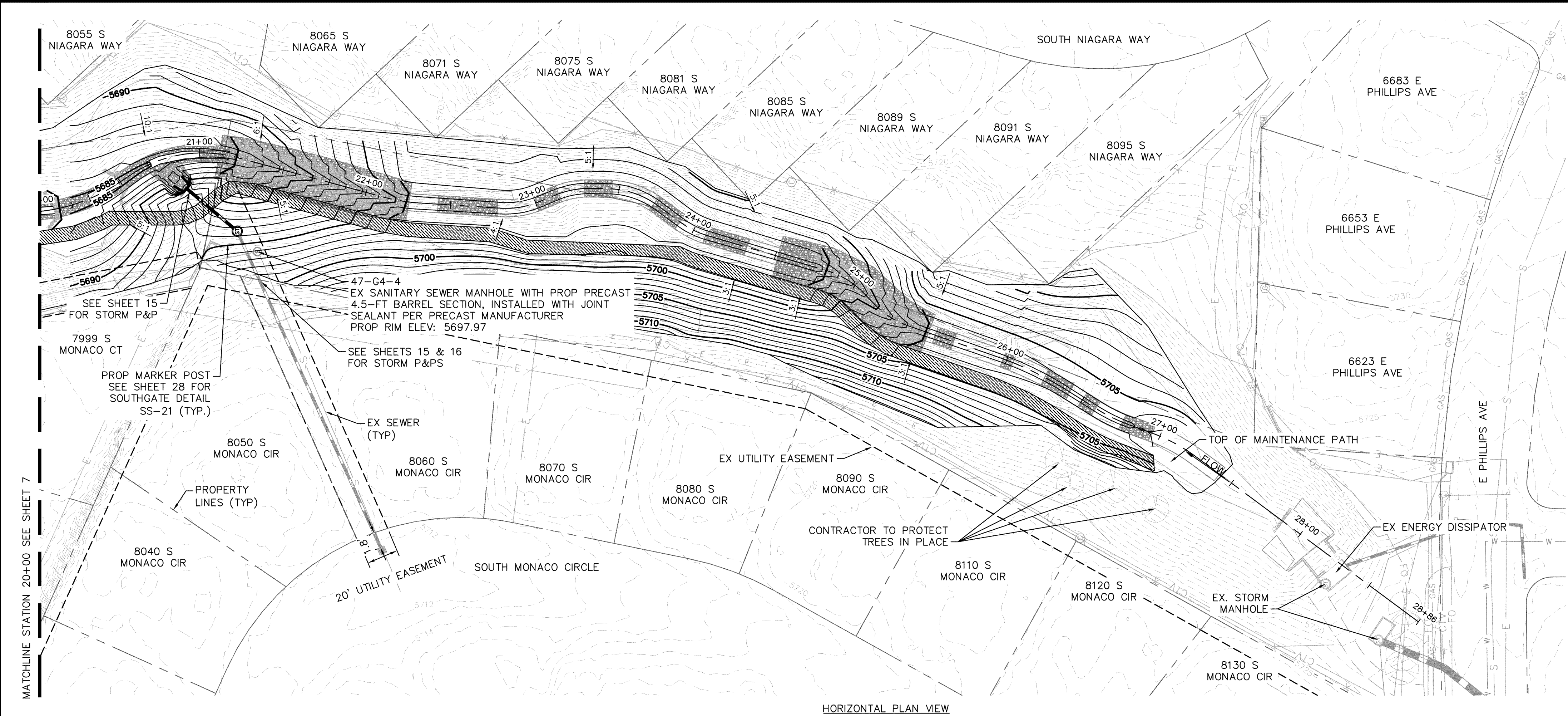
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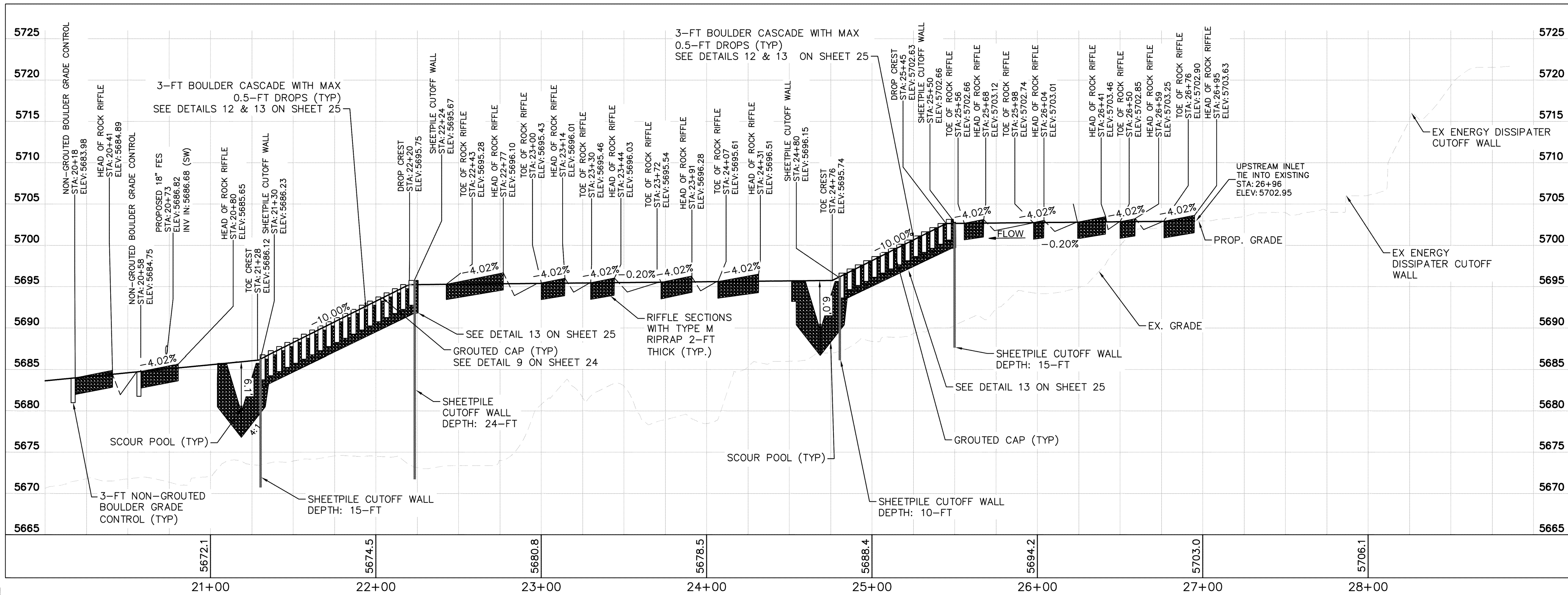
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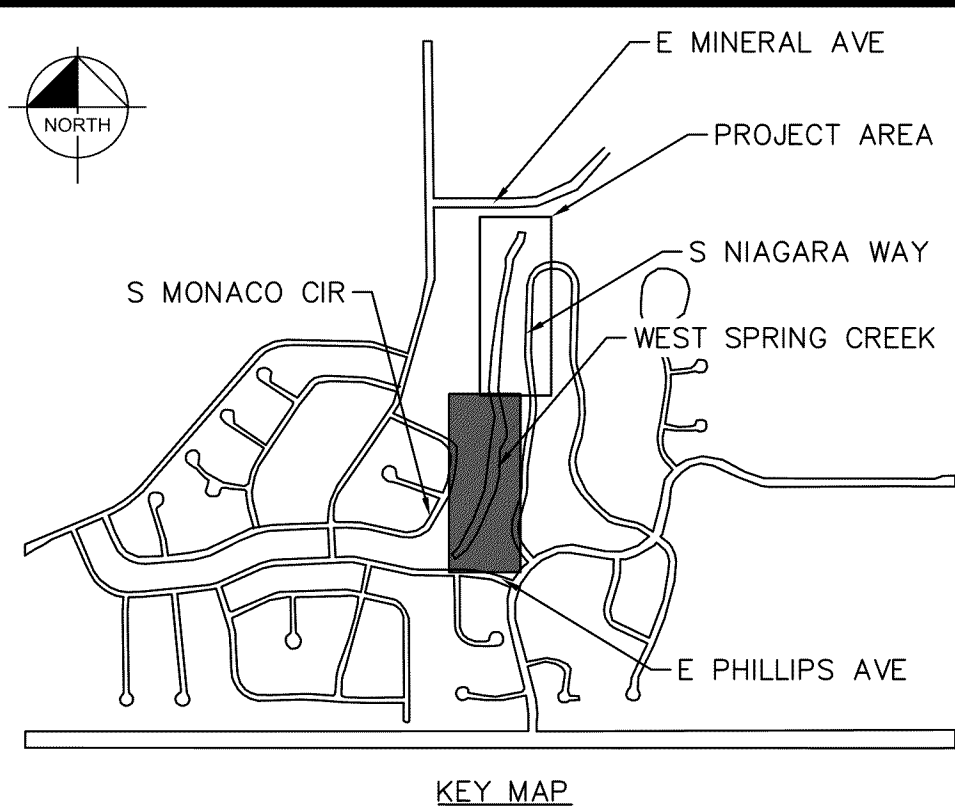
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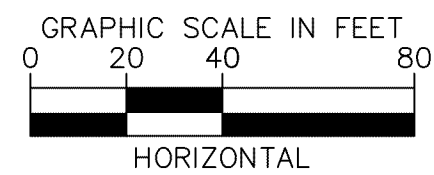
HORIZONTAL PLAN VIEW



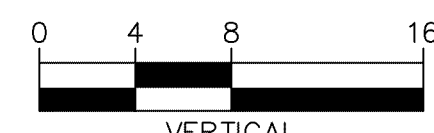
VERTICAL PROFILE VIEW



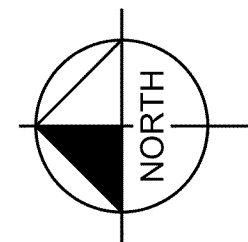
KEY MAP



HORIZONTAL



VERTICAL



NOTES:

1. SEE SHEETS 13 AND 14 FOR STRUCTURE STATION AND ELEVATIONS.
2. SEE SHEET 2 FOR NOTES ON CHANNEL FILL AND SOUTHGATE SANITATION DISTRICT SANITARY SEWER



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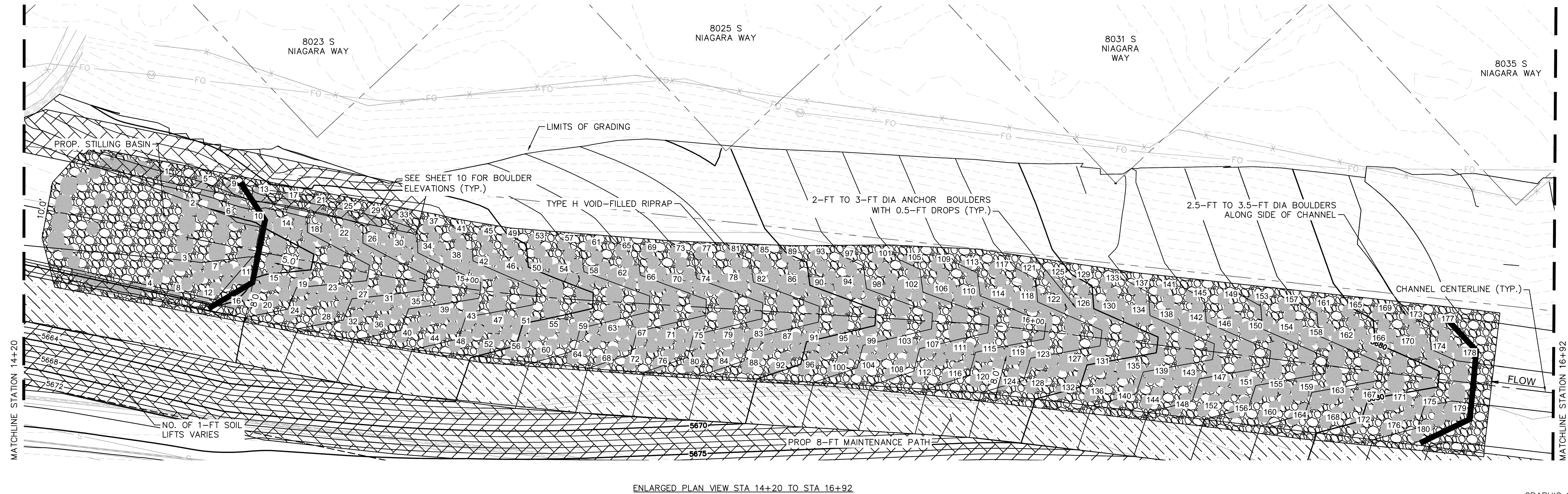
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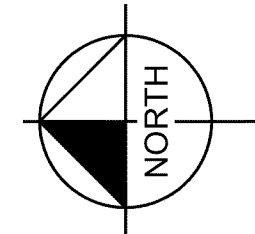
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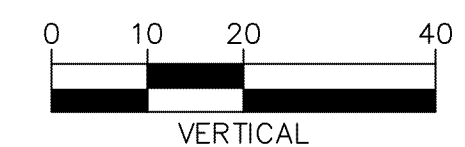
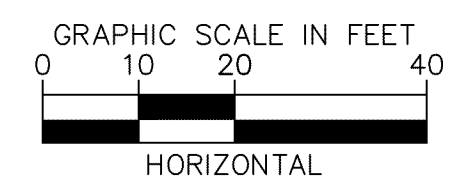
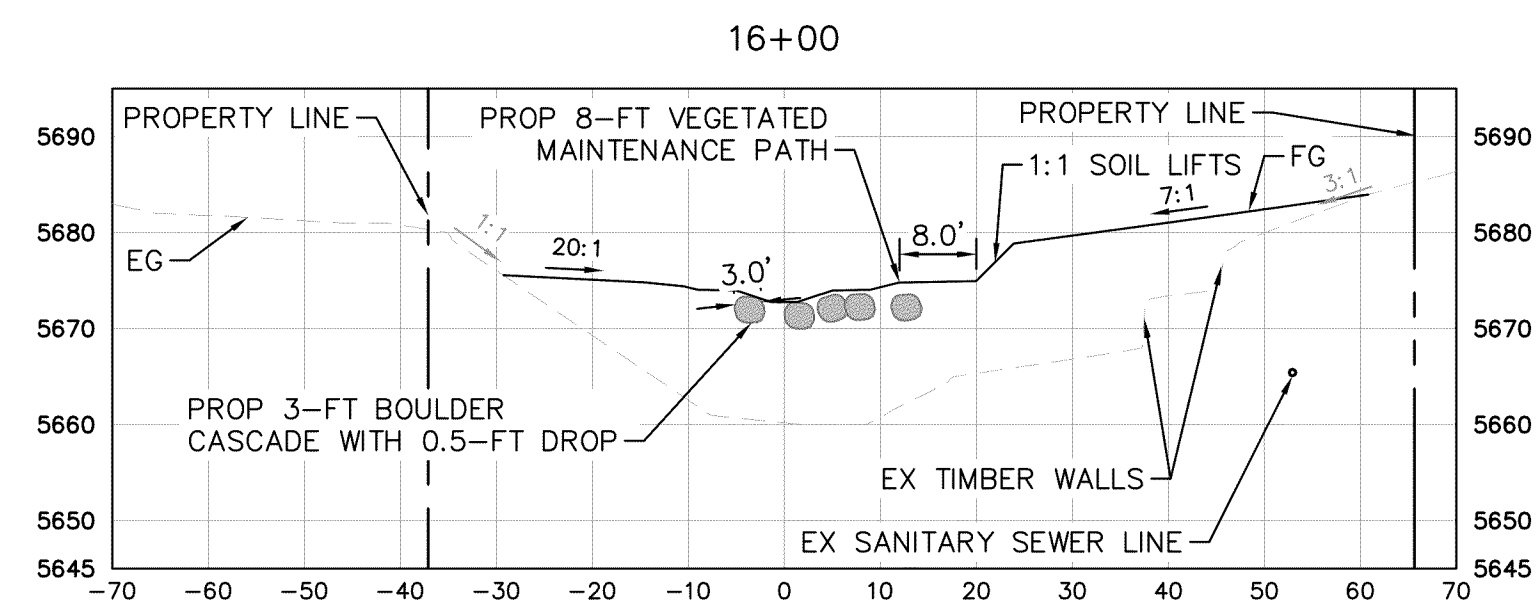
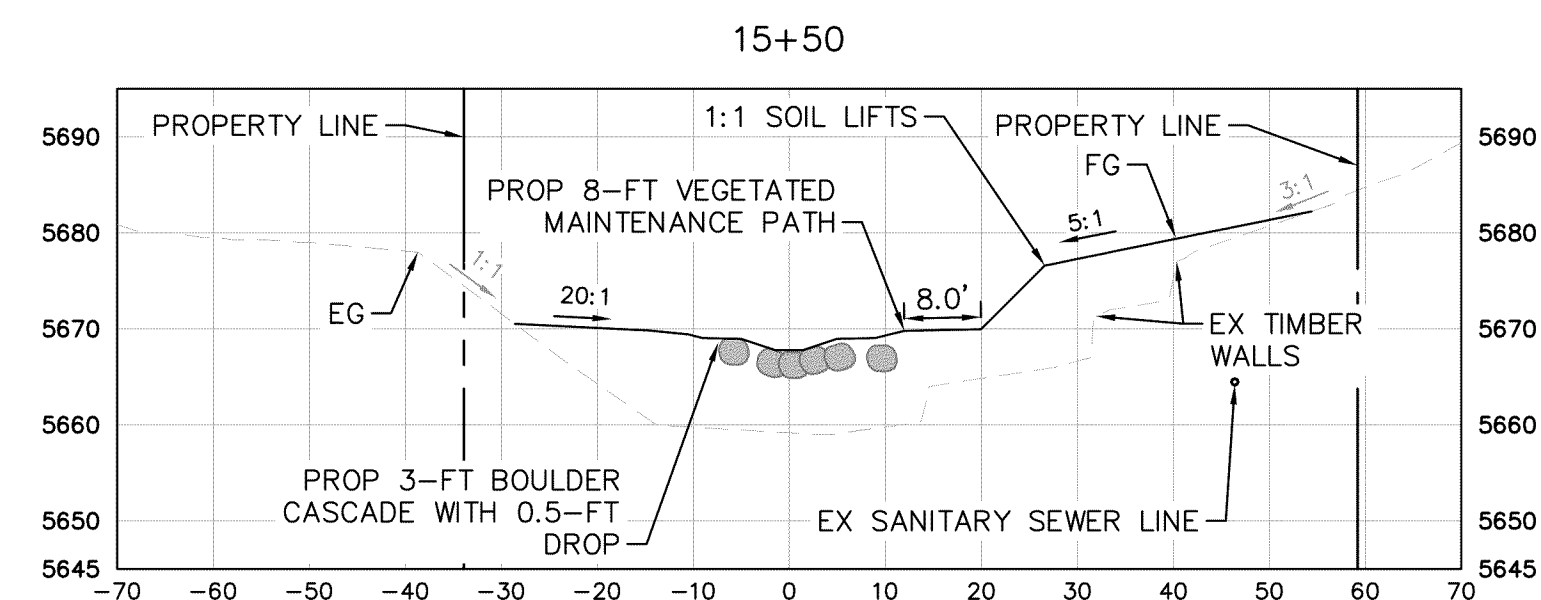
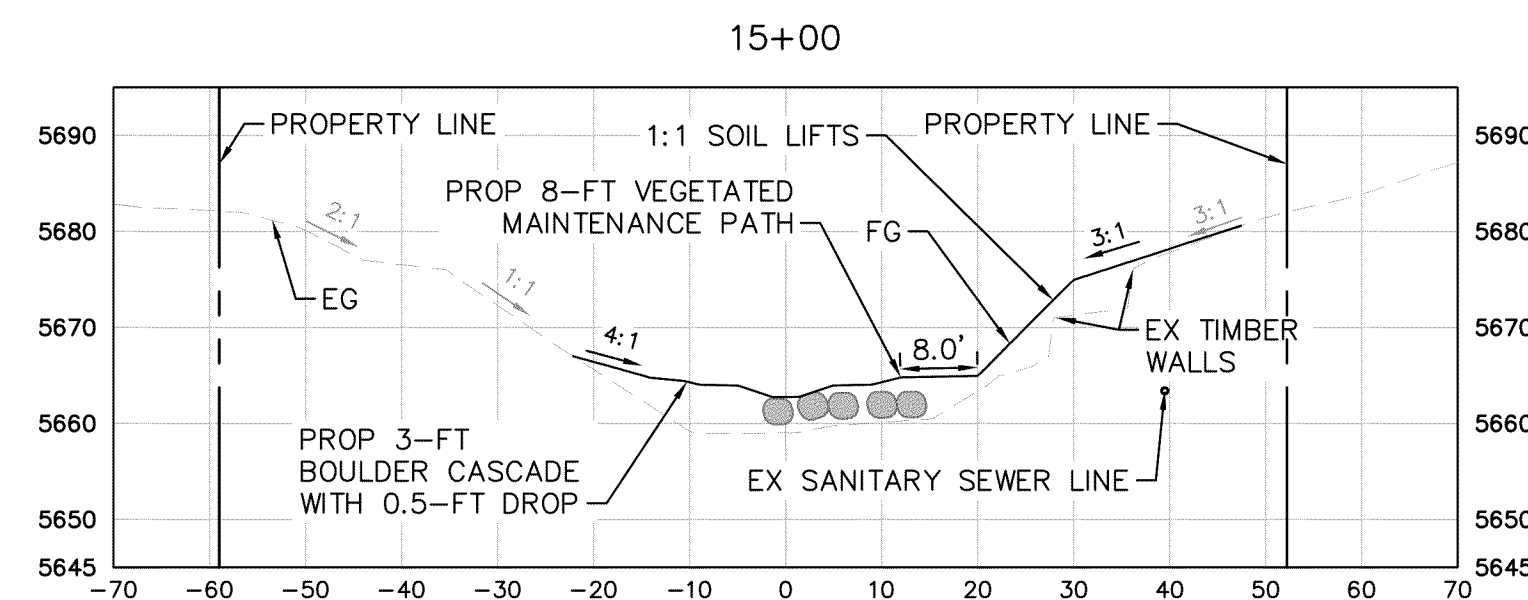
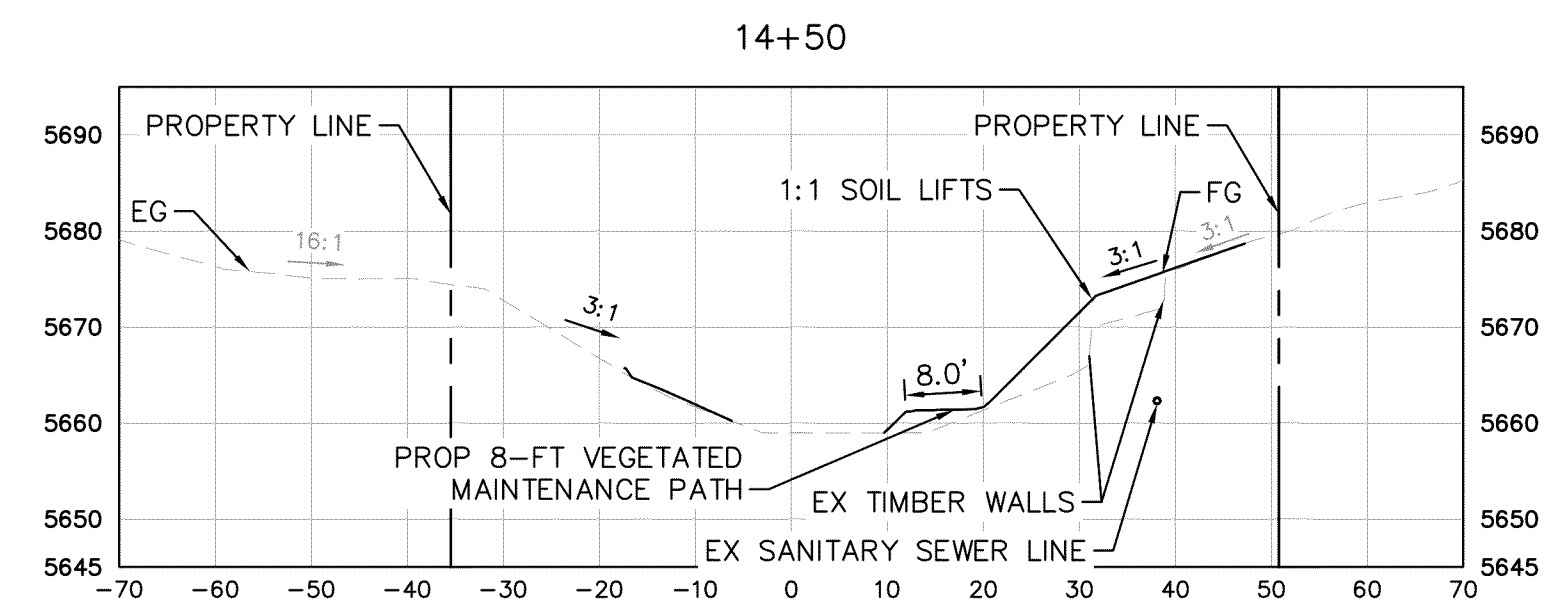
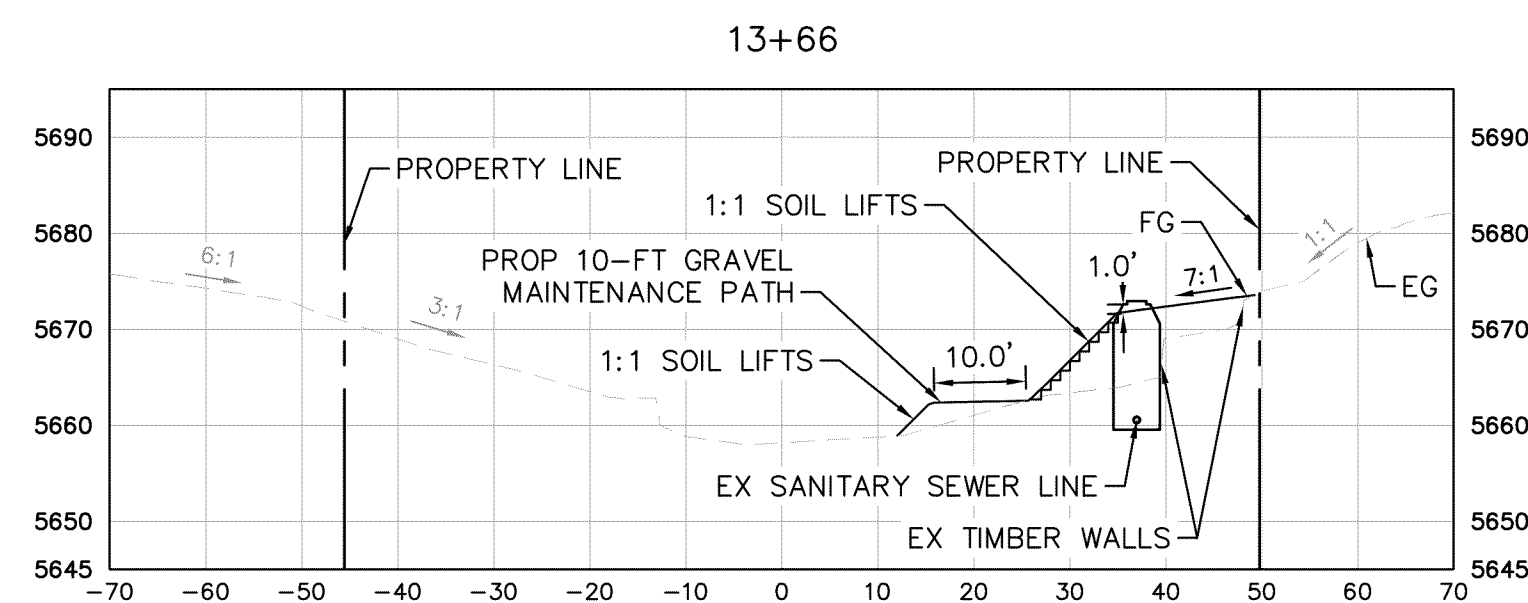
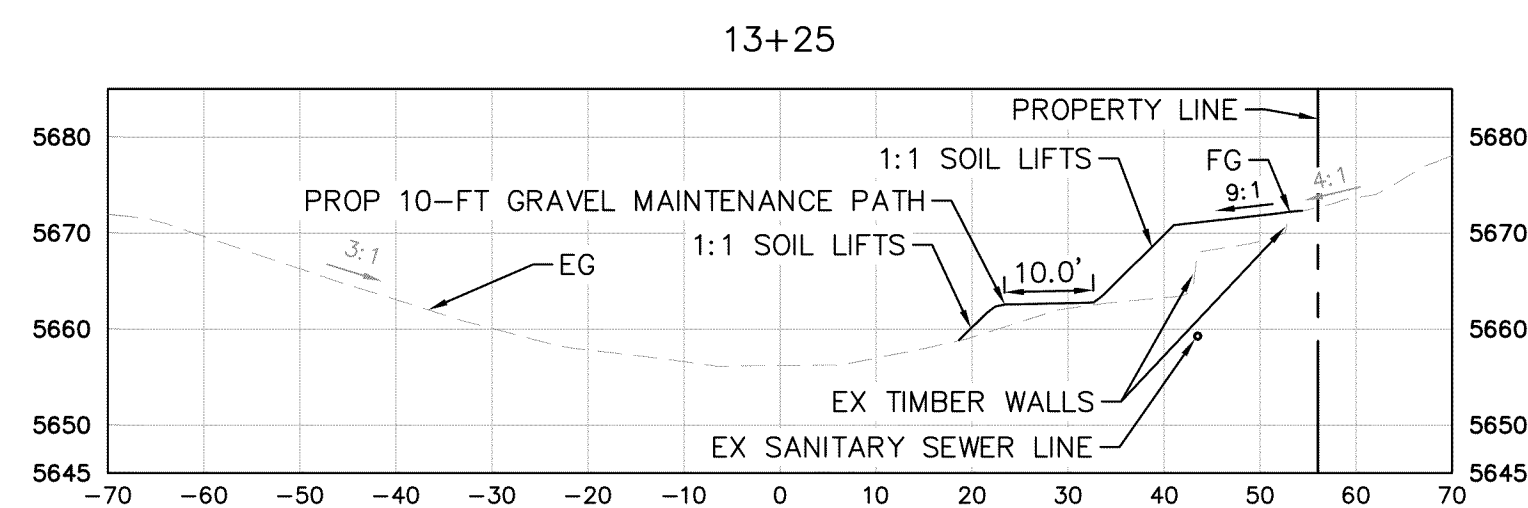
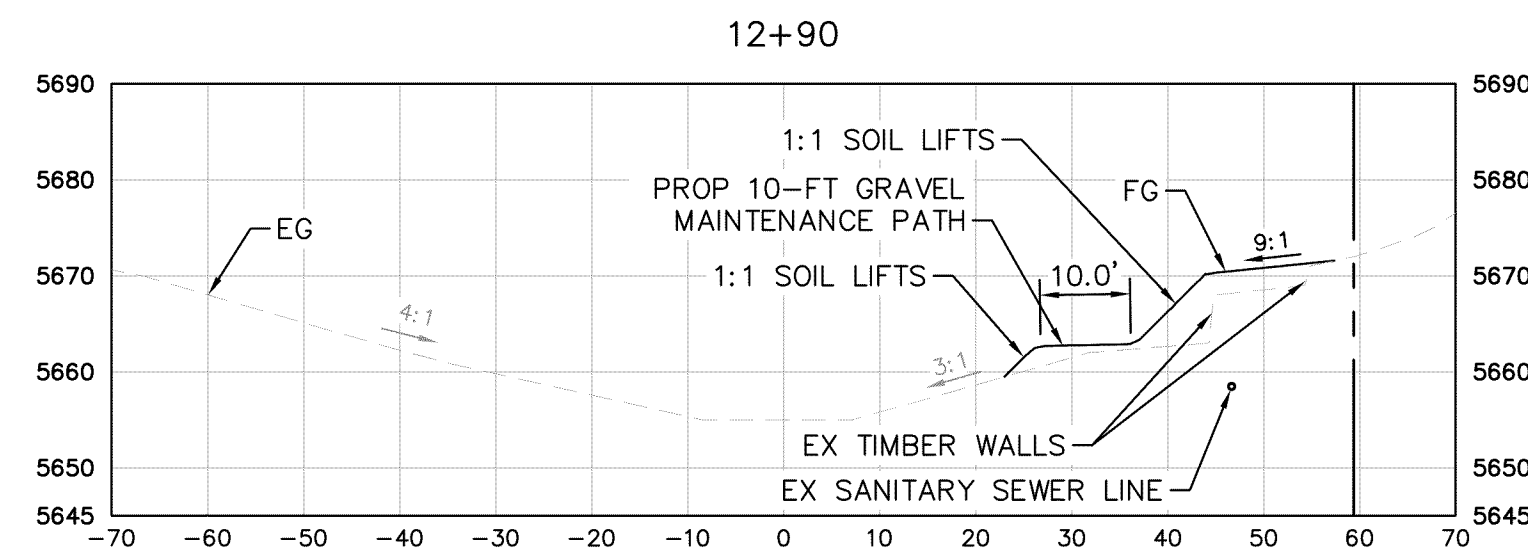
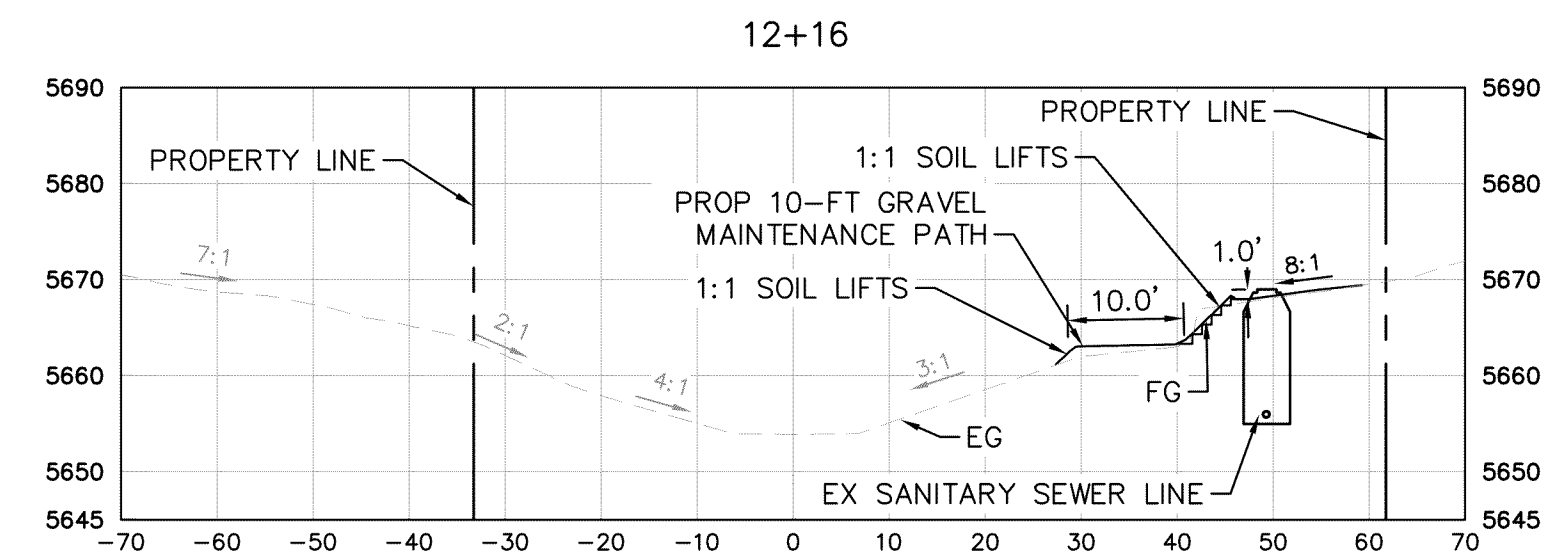
- PLACEMENT SHALL BE REVIEWED AND APPROVED BY THE ENGINEER DURING INITIAL PLACEMENT AND PRIOR TO INITIAL BACKFILLING AND BURYING OF BOULDERS.



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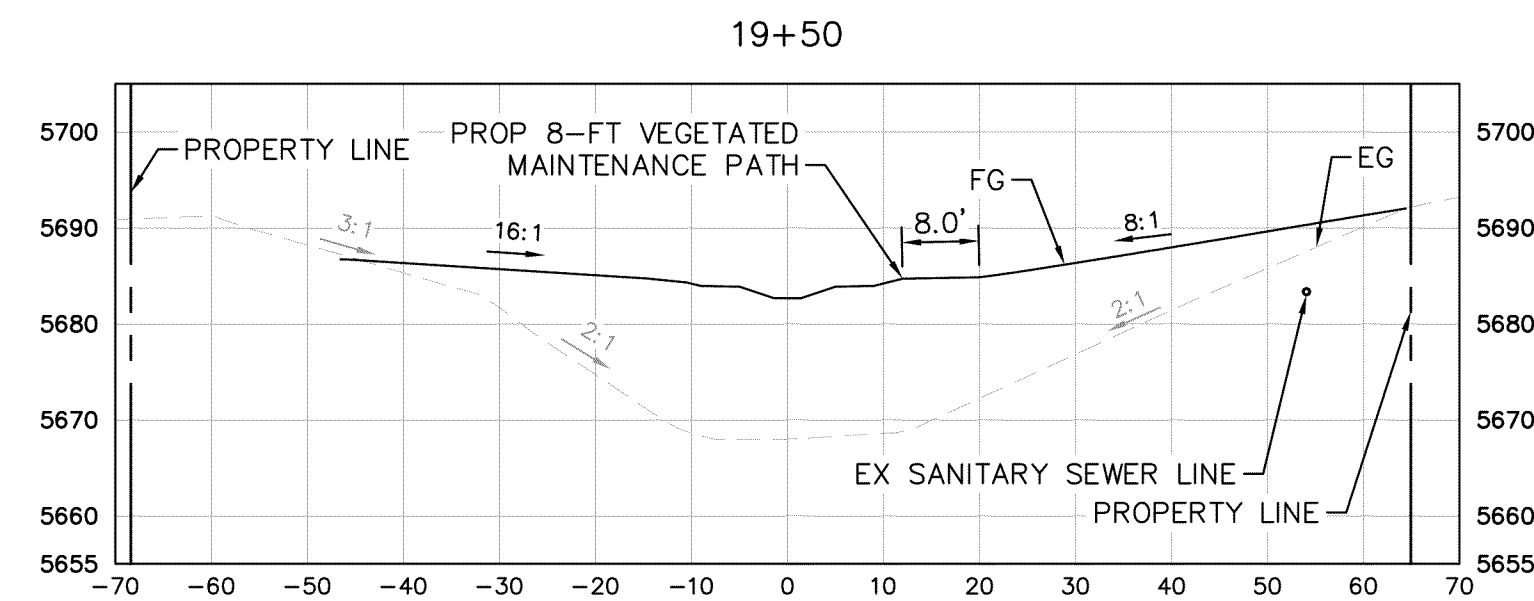
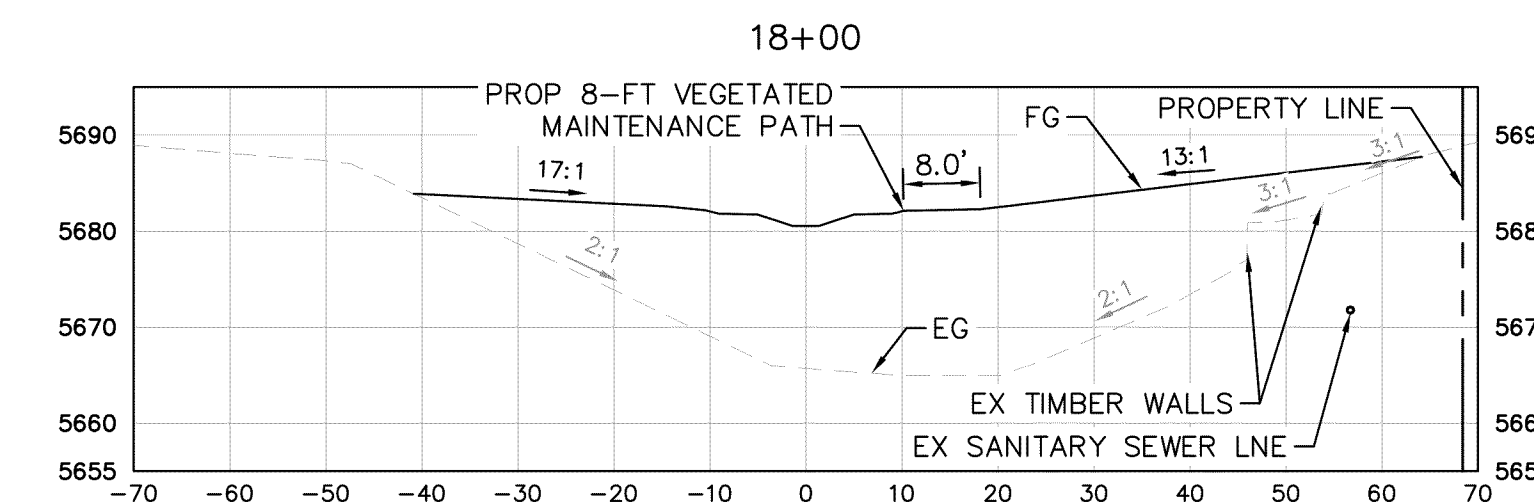
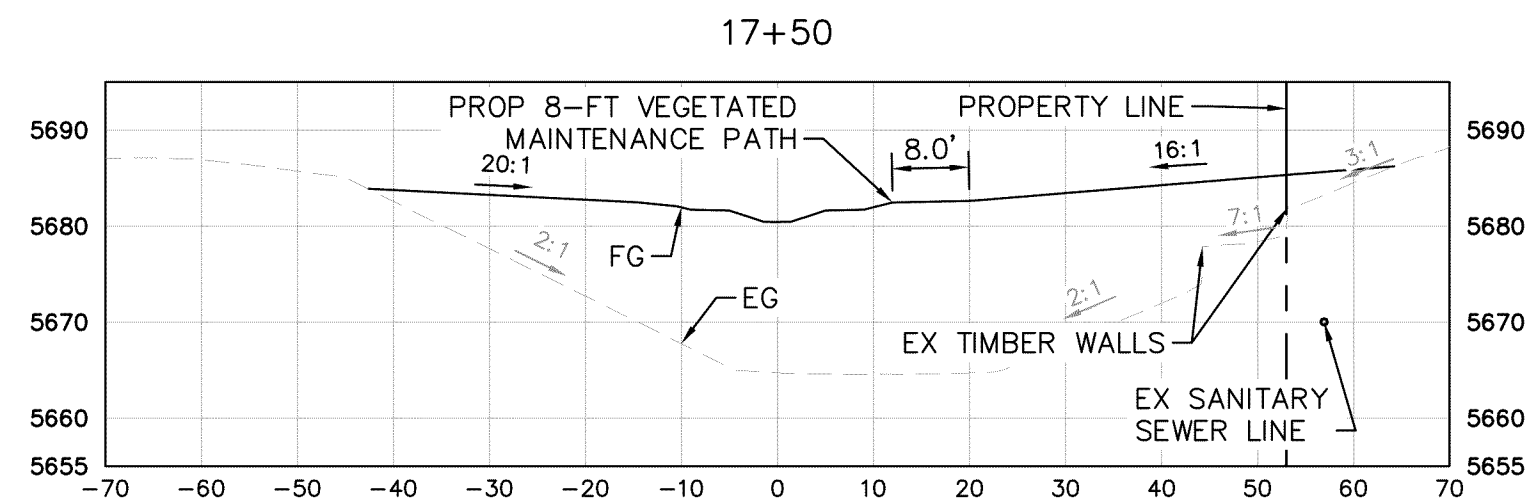
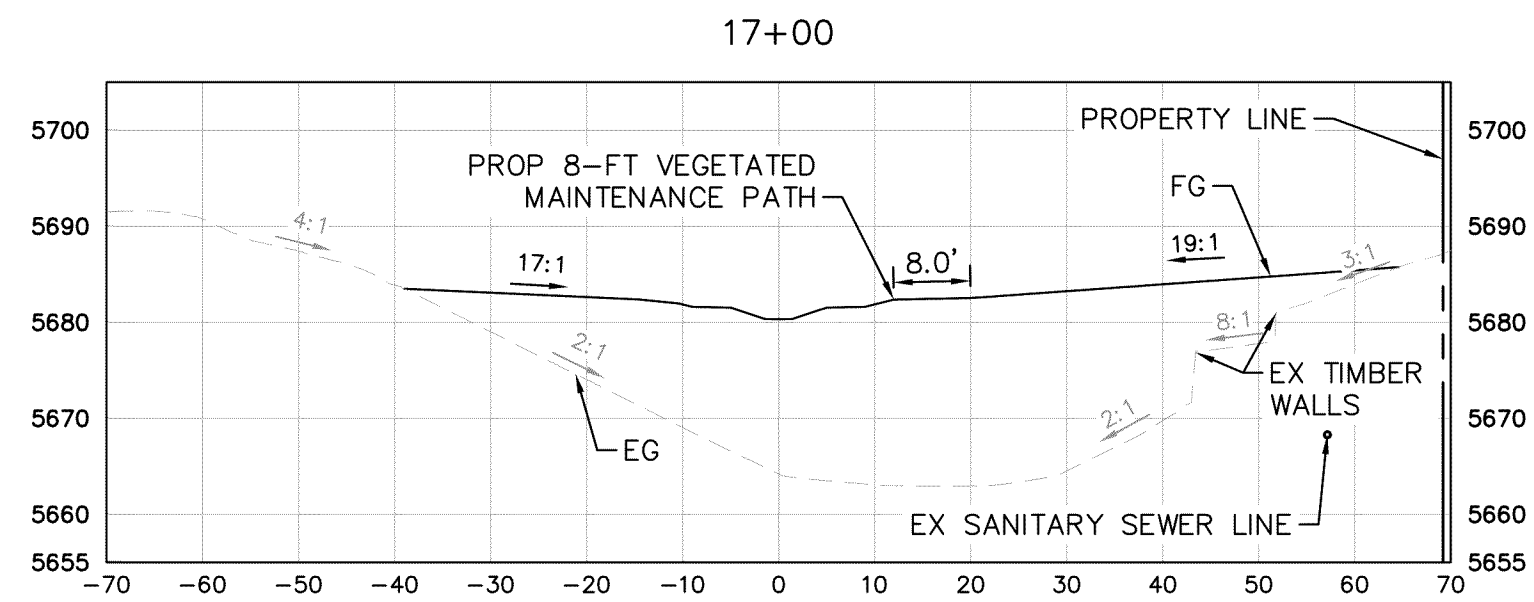
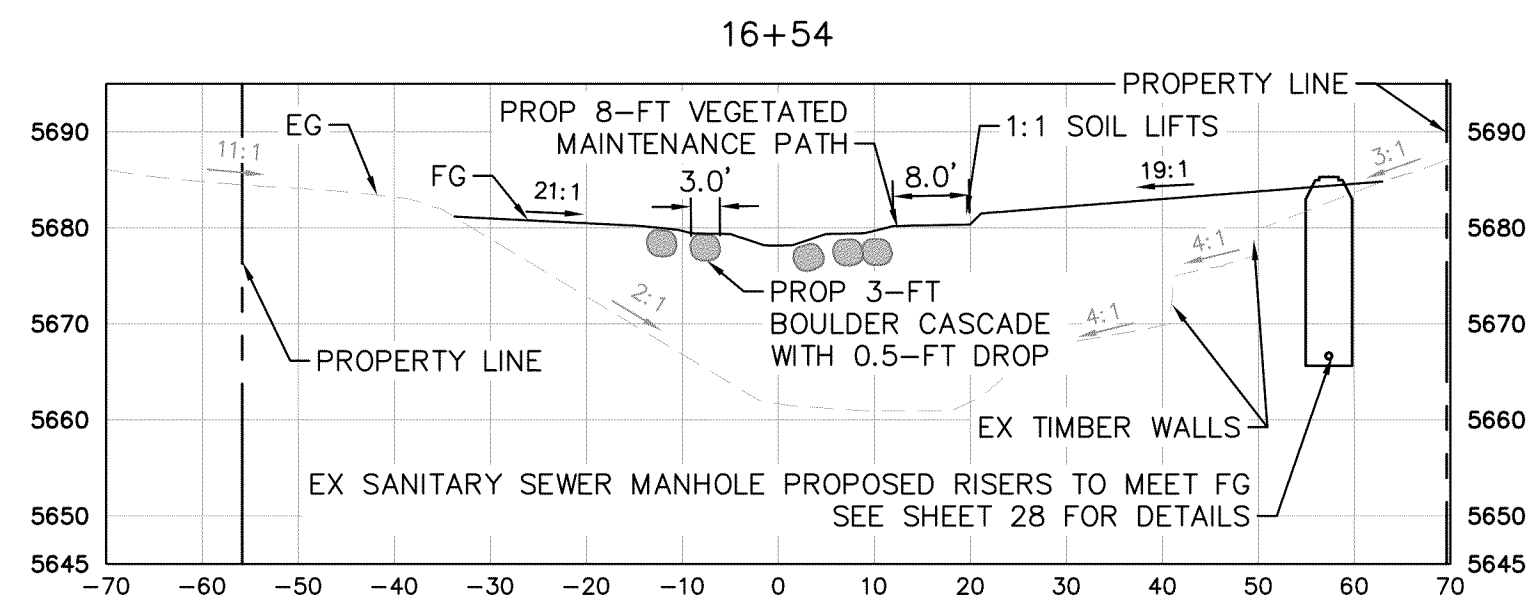
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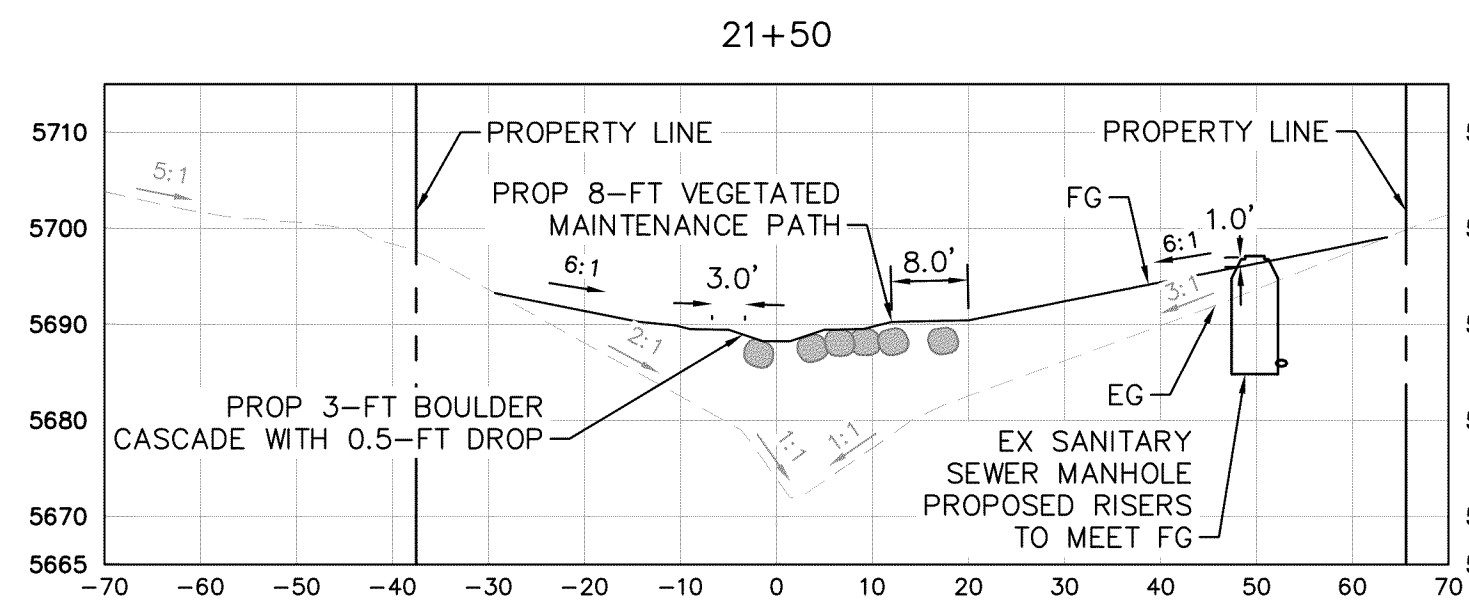
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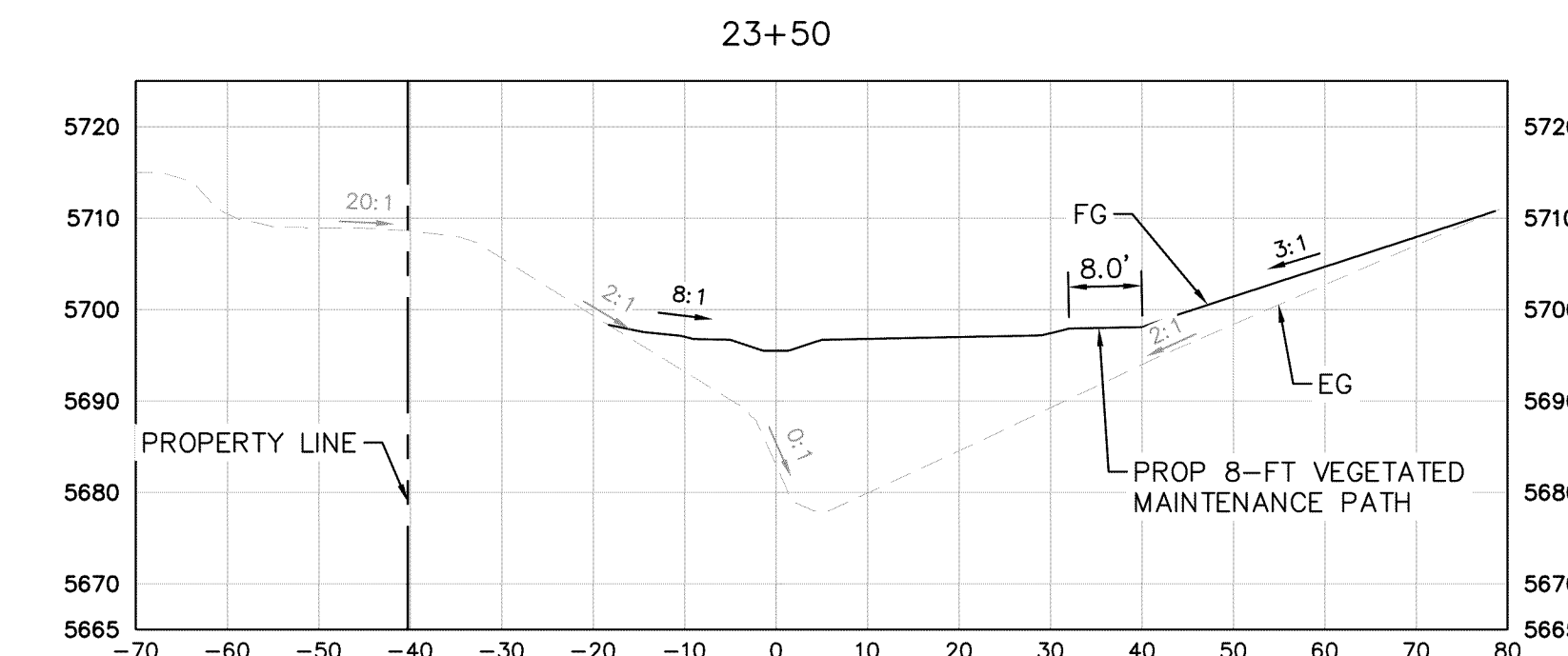
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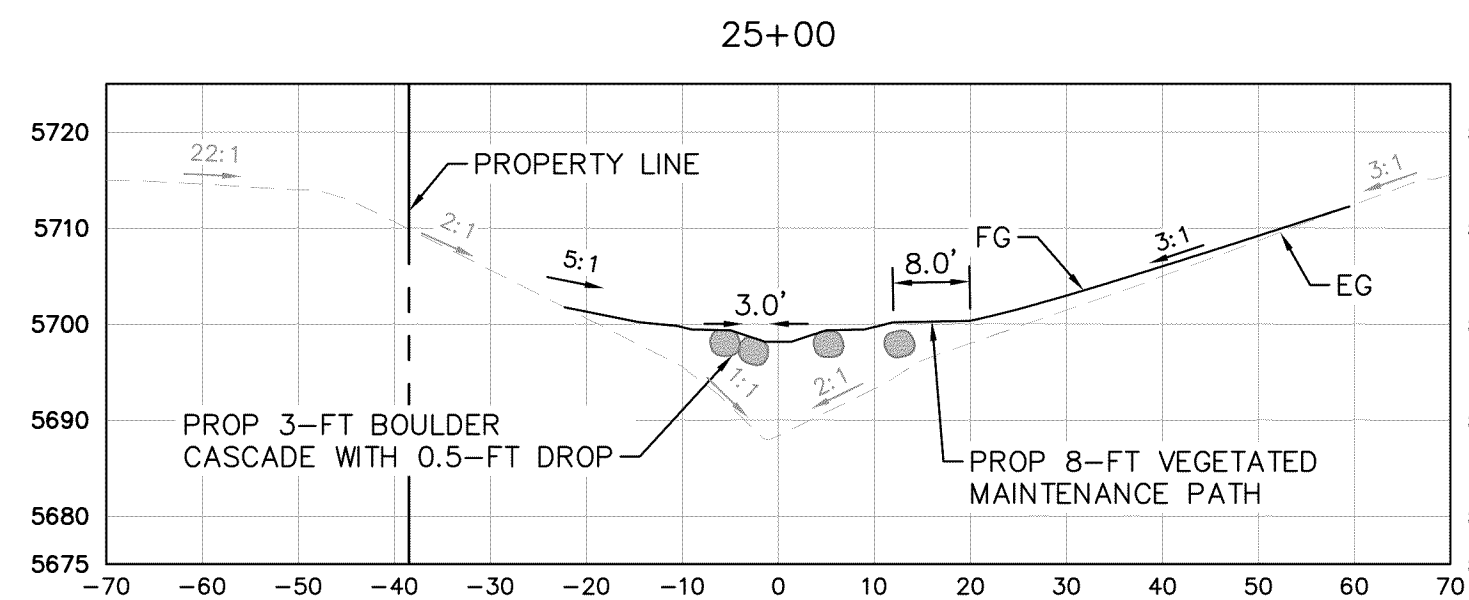
STATION 19+50 SECTION VIEW



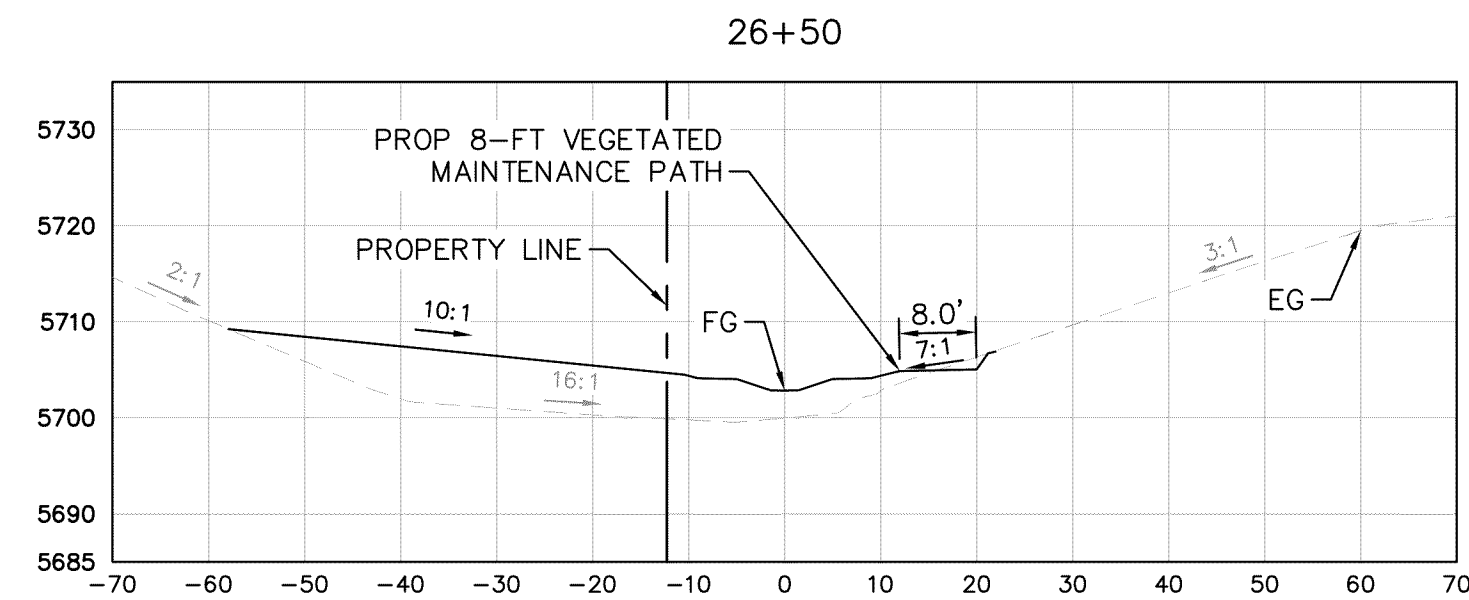
STATION 21+50 SECTION VIEW



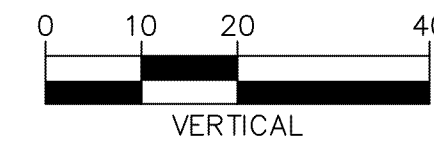
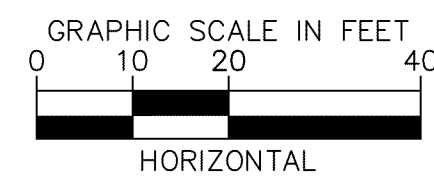
STATION 23+50 SECTION VIEW



STATION 25+00 SECTION VIEW



STATION 26+50 SECTION VIEW



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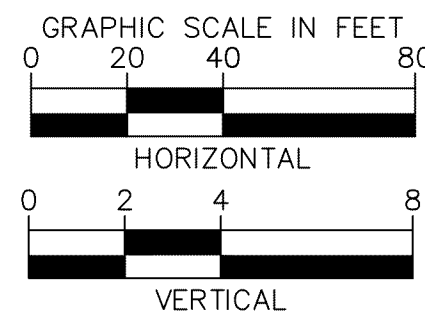
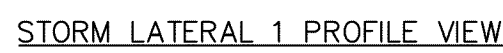
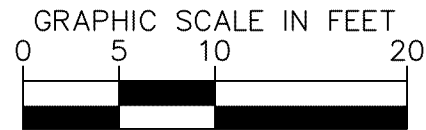
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AVENUE CHANNEL IMPROVEMENTS
100% CONSTRUCTION DRAWINGS
CHANNEL SECTIONS

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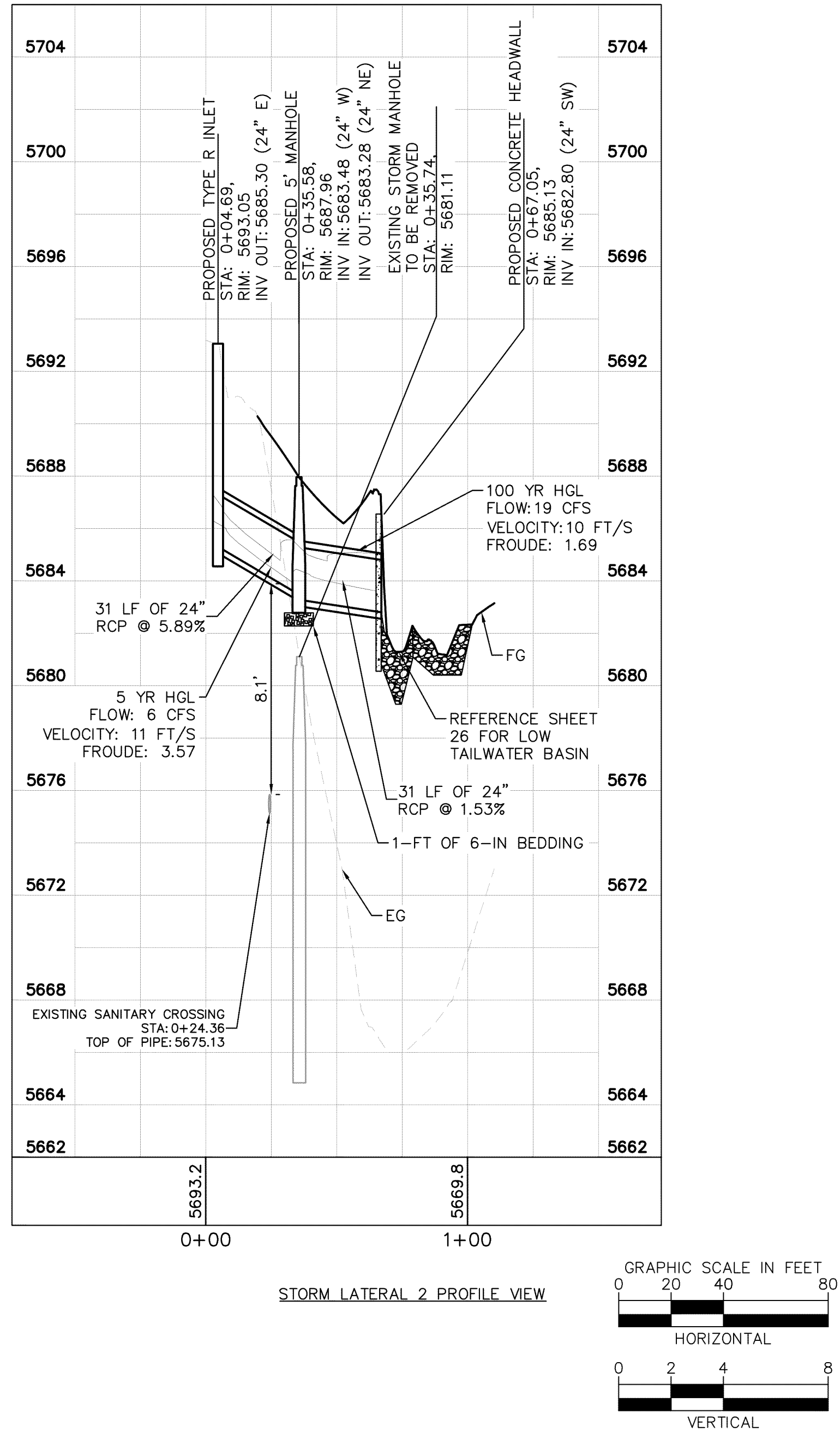
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STABILIZED SLOPE PLAN AND DETAILS

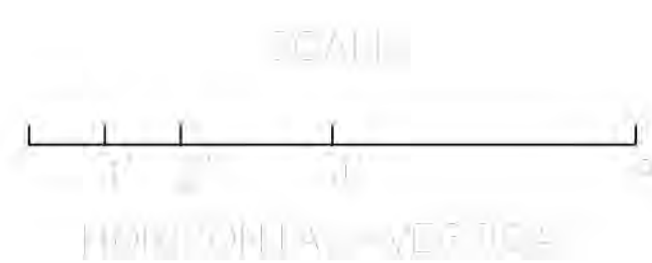
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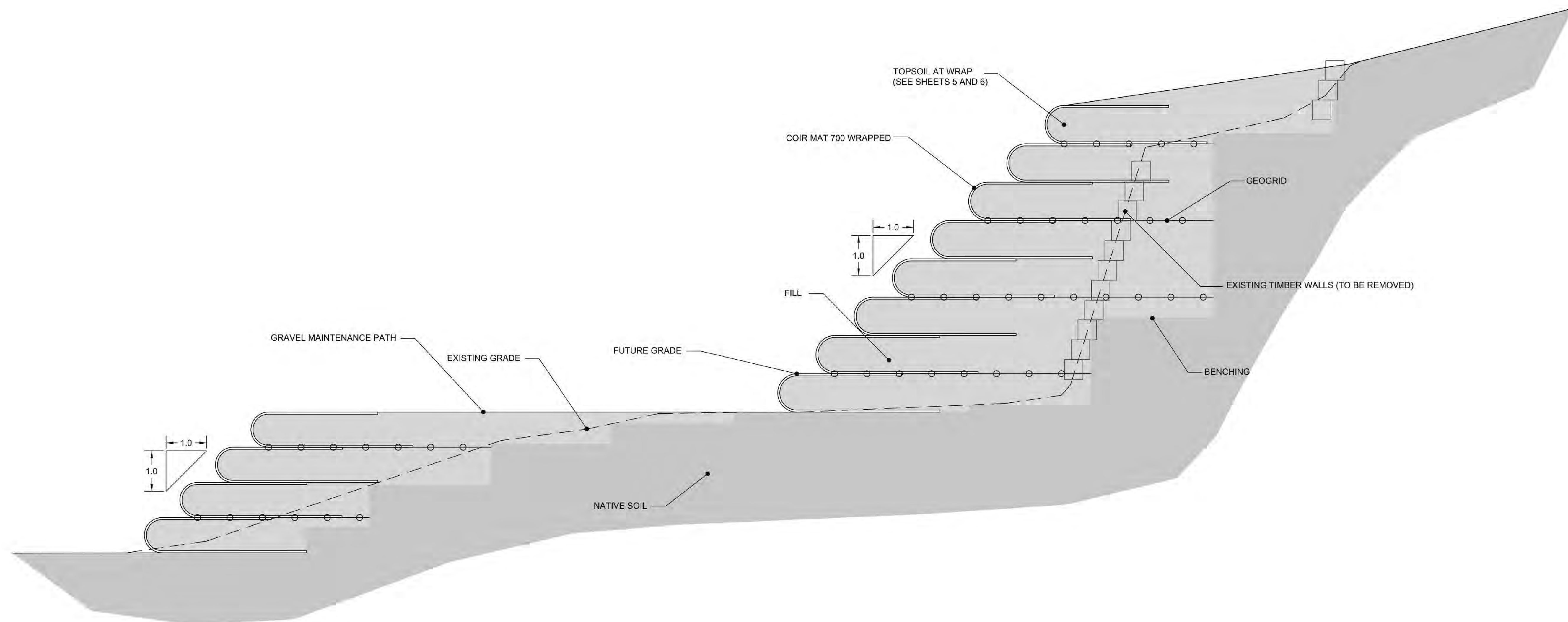


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CROSS SECTION 13+40 CONCEPT LAYOUT

- FOR GEOGRID AND COIR MAT DETAILS AND CONSTRUCTION NOTES SEE SHEETS 5 AND 6

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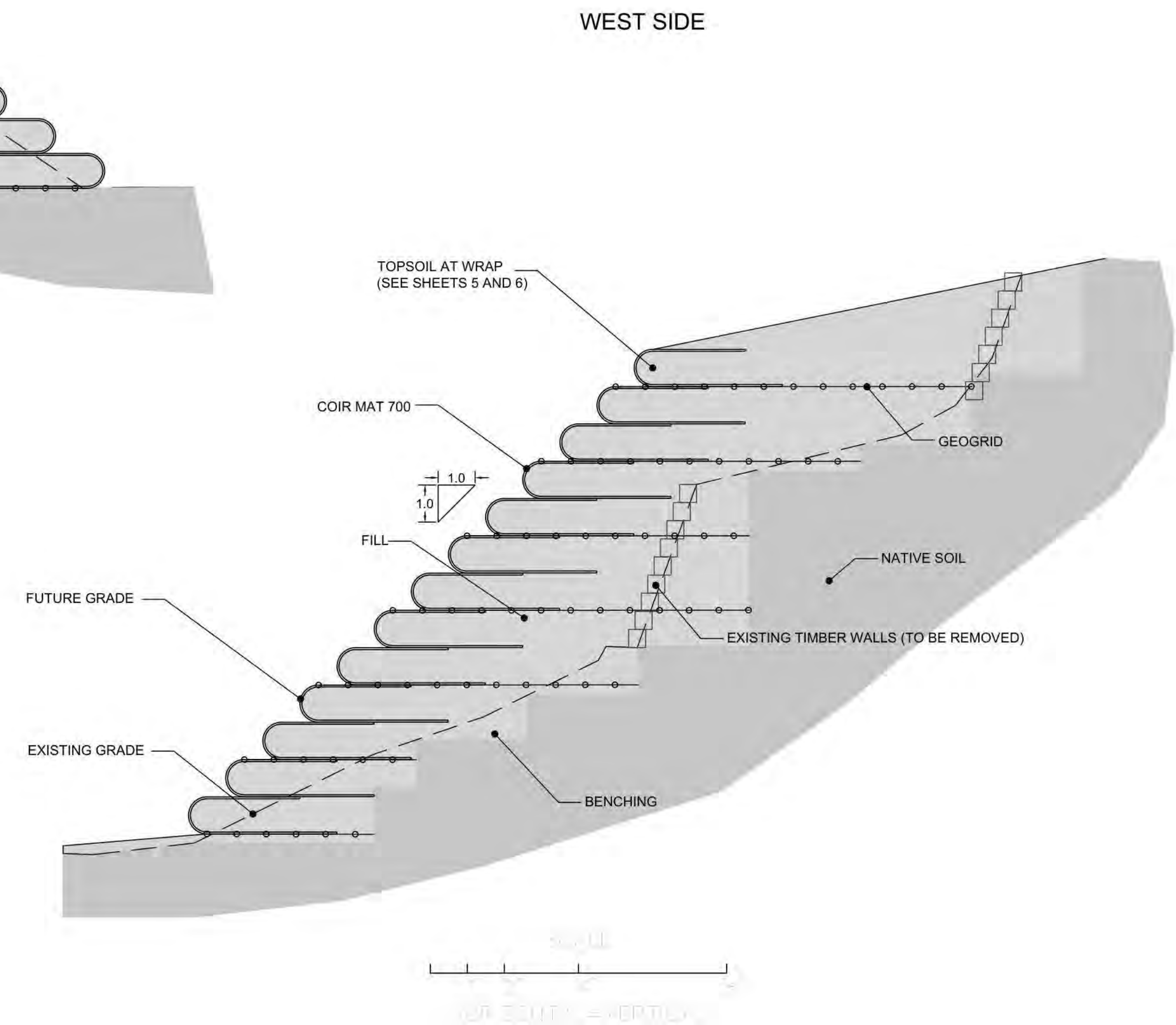
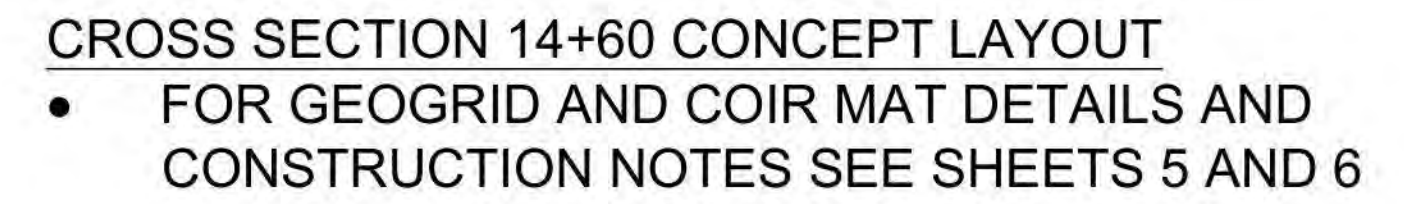
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REINFORCED SLOPE CONSTRUCTION

1. EXCAVATION

- 1.1. REMOVE ORGANIC MATERIAL, TOPSOIL, TRASH, DEBRIS, RIPRAP, AND OTHER DELETERIOUS MATERIALS FROM ALL AREAS TO BE FILLED AND AREAS TO BE CUT. ALL MATERIAL SHALL BE REMOVED FOR OFFSITE DISPOSAL IN ACCORDANCE WITH LOCAL LAWS AND REGULATIONS OR, IF APPROPRIATE, STOCKPILED FOR FUTURE USE. AREAS TO RECEIVE FILL SHALL BE EVALUATED BY THE GEOTECHNICAL ENGINEER PRIOR TO THE PLACEMENT OF ANY FILL MATERIALS. REUSE OF TOPSOIL OR OTHER MATERIALS AS ONLY DIRECTED BY ENGINEER.
- 1.2. ALL SLOPES TO RECEIVE FILL MUST BE PROPERLY BENCHING INTO THE EXISTING SIDE SLOPE FOR STABILITY AND TO FACILITATE EARTHWORK EQUIPMENT AND PROPER COMPACTION. FOR SLOPES BETWEEN APPROXIMATELY 3:1 (H:V) TO 1:1 (H:V), A MINIMUM BENCH WIDTH OF 3 FEET, OR THAT NECESSARY TO FACILITATE EARTHWORK, GEOGRID/EROSION MAT, AND PROPER COMPACTION EQUIPMENT, WHICHEVER IS GREATER.
- 1.3. AFTER PERFORMING THE REQUIRED EXCAVATIONS AND PRIOR TO THE PLACEMENT OF COMPACTED FILL, PREPARATION OF THE SUBGRADE SHALL BE PERFORMED. THIS INCLUDES MOISTURE CONDITIONING AND COMPACTING. NO COMPACTION TESTING REQUIRED, VISUAL INSPECTION ONLY REQUIRED.
- 1.4. IF BEDROCK IS EXPOSED AT THE PLANNED EXCAVATION DEPTH, IT SHALL BE SCRAPPED CLEAN AND FLAT.
- 1.5. IF SUBGRADE STABILIZATION IS REQUIRED (I.E., SOFT WET SUBGRADE CONDITIONS), THE OPTIMAL TYPE AND THICKNESS OF STABILIZATION CAN ONLY BE EVALUATED WHEN THE CONDITIONS AND MAGNITUDE OF INSTABILITY ARE EXPOSED. THIS BEING A CREEK, CONSTRUCTION PLANNING SHOULD ADDRESS THIS SO IT CAN BE IMPLEMENTED WHEN NECESSARY. CHANNELING, BYPASSING, DEWATERING TO ENABLE CONSTRUCTION OF THE REINFORCED SLOPE ELEMENTS IS THE CONTRACTOR'S RESPONSIBILITY.
- 1.6. SHOULD SEEPAGE FROM THE CREEK BANK BE OBSERVED DURING EARTHWORK ACTIVITIES, THE GEOTECHNICAL ENGINEER SHALL BE NOTIFIED FOR ADDITIONAL RECOMMENDATIONS SUCH AS BACK/BLANKET DRAINS TO PROPERLY COLLECT AND DIRECT SEEPAGE THROUGH ANY NEW FILL TO AVOID DESTABILIZING THE SLOPE.

2. FILL

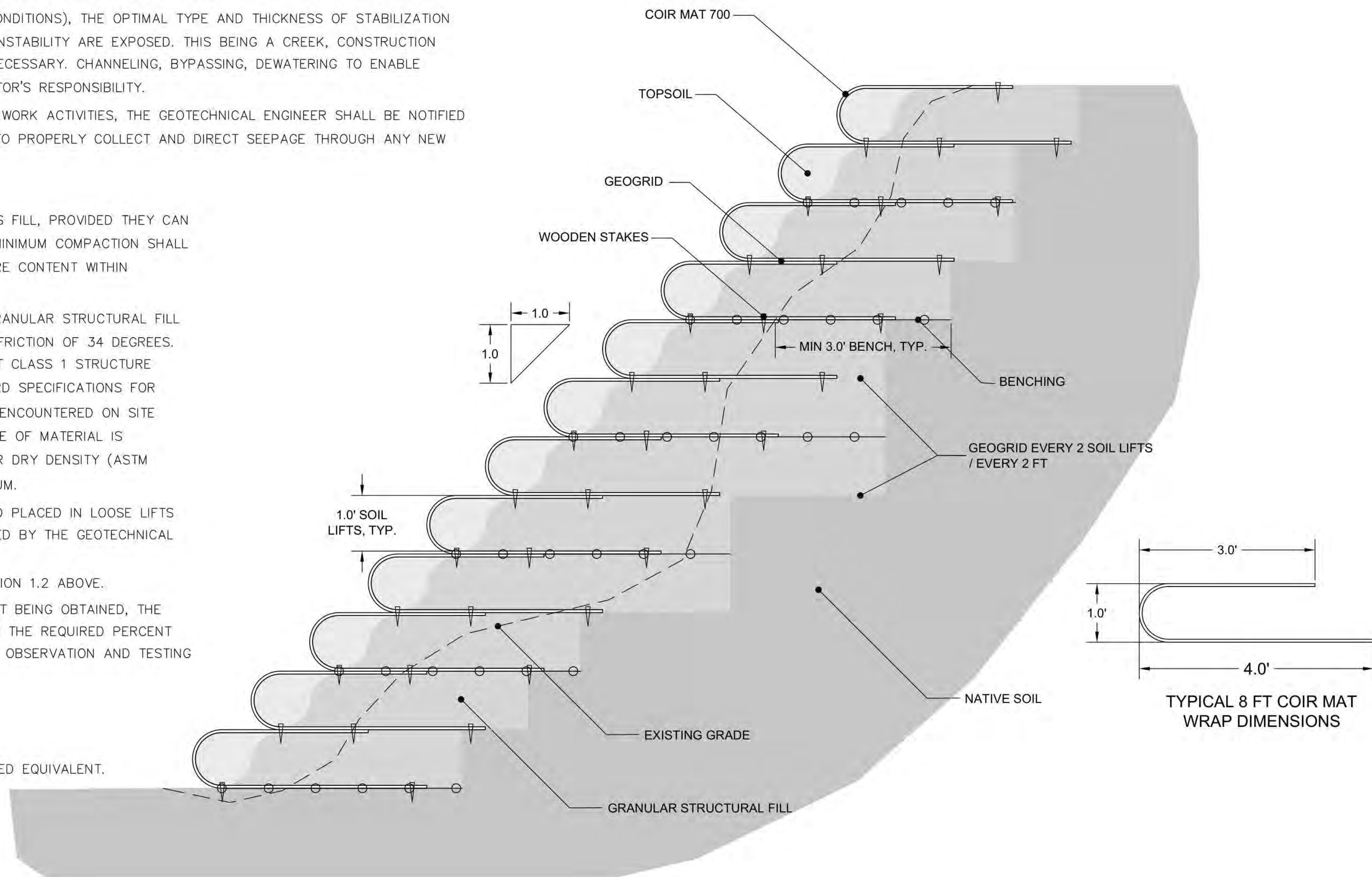
- 2.1. FOR FILL SLOPES UP TO 2:1 (H:V), ON-SITE SOILS MAY BE REUSED AS FILL, PROVIDED THEY CAN BE PROPERLY PROCESSED, MOISTURE CONDITIONED, AND COMPACTED. MINIMUM COMPACTION SHALL BE 90% STANDARD PROCTOR DRY DENSITY (ASTM D698) AT A MOISTURE CONTENT WITHIN APPROXIMATELY 2% OF OPTIMUM.
- 2.2. FOR FILL SLOPES STEEPER THAN 2:1 (H:V) THAT REQUIRE GEOGRID, GRANULAR STRUCTURAL FILL IS REQUIRED. THIS FILL MUST EXHIBIT A MINIMUM ANGLE OF INTERNAL FRICTION OF 34 DEGREES. THIS TYPE OF FILL TYPICALLY REQUIRES A MATERIAL THAT MEETS CDOT CLASS 1 STRUCTURE BACKFILL SPECIFICATIONS (SEE SECTION 703.08 OF THE CDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION). THIS TYPE OF MATERIAL WAS NOT ENCOUNTERED ON SITE DURING GEOTECHNICAL INVESTIGATIONS. THEREFORE, IMPORTING THIS TYPE OF MATERIAL IS ANTICIPATED. MINIMUM COMPACTION SHALL BE 95% STANDARD PROCTOR DRY DENSITY (ASTM D698), AT A MOISTURE CONTENT WITHIN APPROXIMATELY 2% OF OPTIMUM.
- 2.3. ALL FILL MATERIALS SHOULD BE PLACED ON A HORIZONTAL PLANE AND PLACED IN LOOSE LIFTS NOT TO EXCEED 12 INCHES IN THICKNESS, UNLESS OTHERWISE ACCEPTED BY THE GEOTECHNICAL ENGINEER.
- 2.4. STRUCTURAL FILL SHALL BE BENCHING INTO EXISTING SLOPES PER SECTION 1.2 ABOVE.
- 2.5. IF FIELD DENSITY TESTING INDICATES THE REQUIRED COMPACTION IS NOT BEING OBTAINED, THE FILL SHOULD BE RECONDITIONED AS NECESSARY AND RECOMPACTED TO THE REQUIRED PERCENT COMPACTION BEFORE PLACING ANY ADDITIONAL MATERIAL. COMPACTION OBSERVATION AND TESTING SHOULD BE CONTINUOUS DURING ALL EARTHWORK ACTIVITIES.

3. GEOGRID PLACEMENT

- 3.1. GEOGRID MATERIAL SHALL CONSIST OF TENSAR UX1100MSE OR APPROVED EQUIVALENT.
- 3.2. INSTALL GEOGRID PER THE MANUFACTURER INSTALLATION GUIDELINES.

TYPICAL DETAIL A

- FOR SLOPES BETWEEN 2H:1V AND 1H:1V (1:1 SLOPE SHOWN BELOW).
- COIR MAT AND GEOGRID REQUIRED.
- 1 FT SOIL LIFTS WRAPPED WITH COIR MAT AS SHOWN.
- 8 FT COIR MAT WIDTH SHOWN. ANY ADJUSTMENTS REQUIRE ENGINEER APPROVAL.
- GEOGRID LENGTH: 4 FT MIN. OR TO THE BACK OF BENCHING, WHICHEVER IS GREATER.
- IN NO CASE SHOULD GEOGRID BE GREATER THAN 12 FT.



Kimley»Horn

DESIGNED BY: CKP
DRAWN BY: CKP
CHECKED BY: TOS
DATE: 6/15/2026

WEST SPRING CREEK DOWNSTREAM E PHILLIPS
AVENUE CHANNEL IMPROVEMENTS
100% CONSTRUCTION DRAWINGS
STABILIZED SLOPE PLAN AND DETAILS

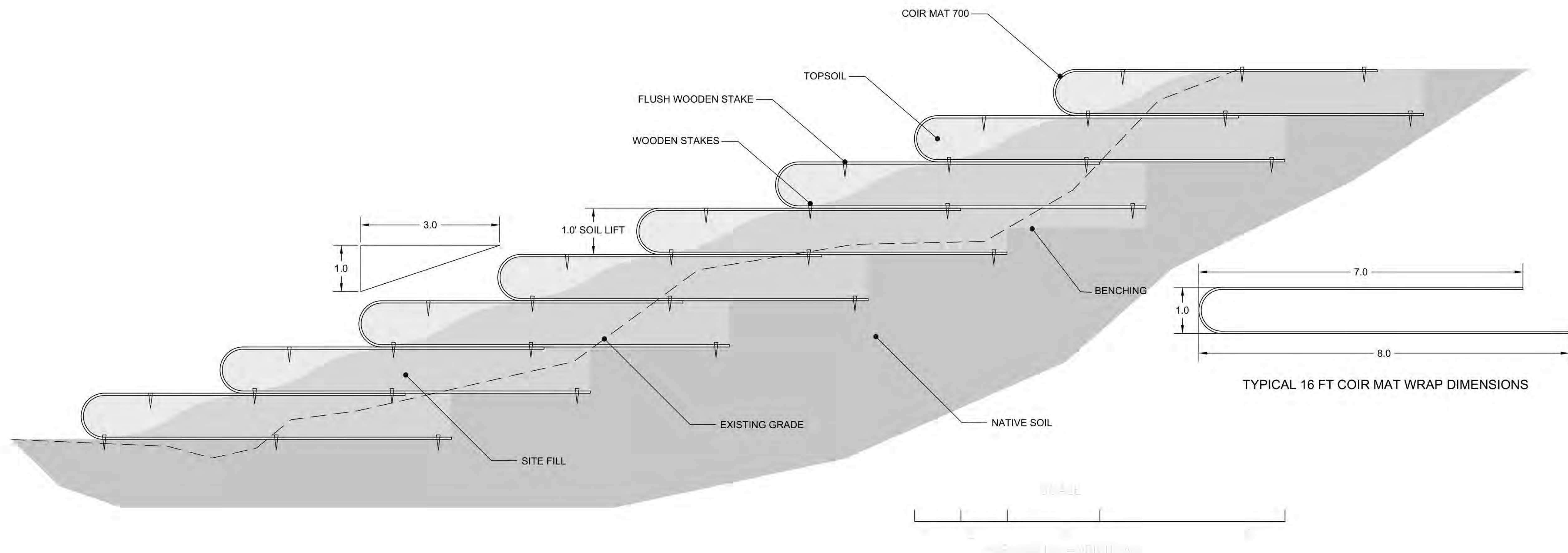
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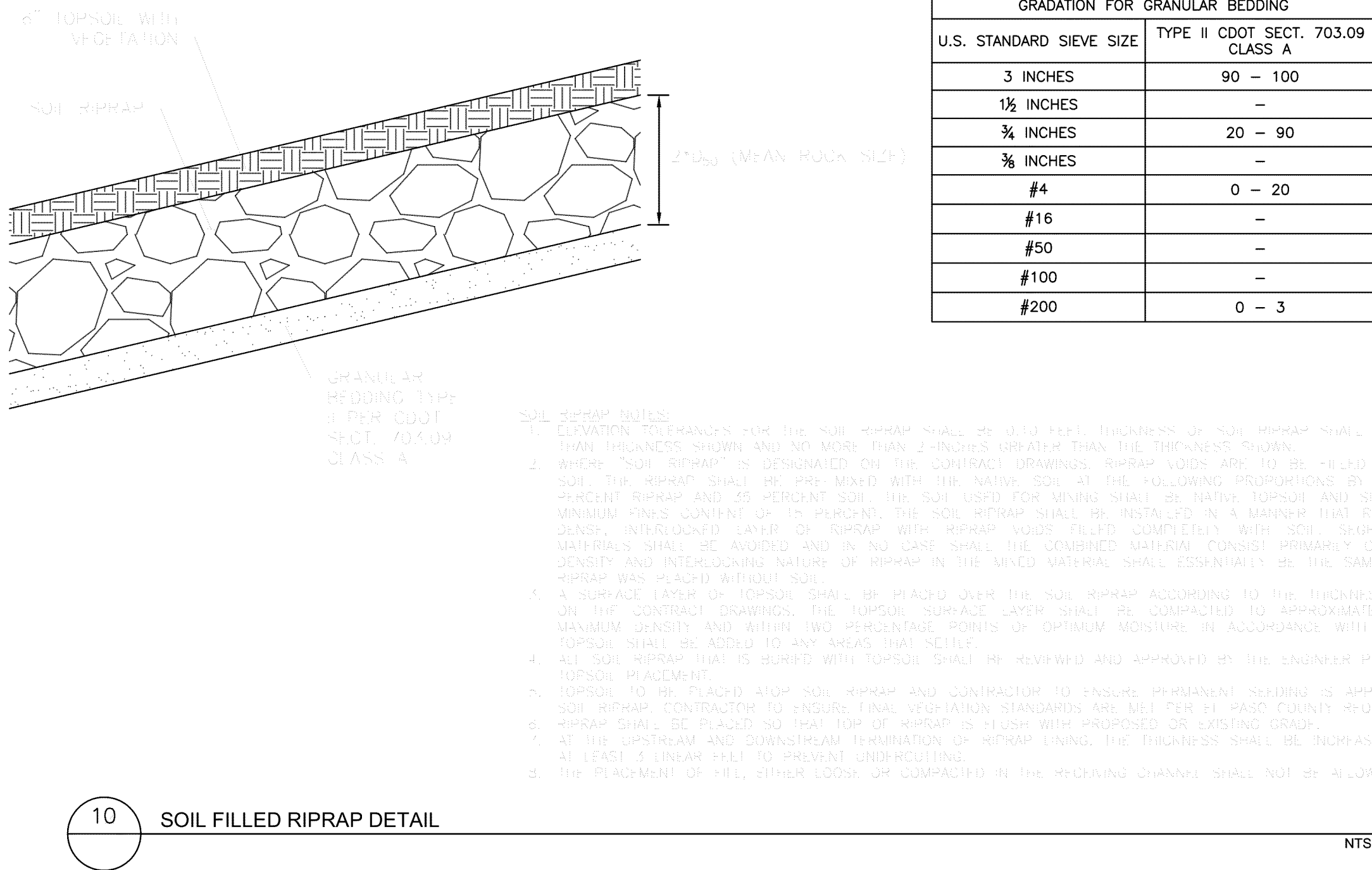
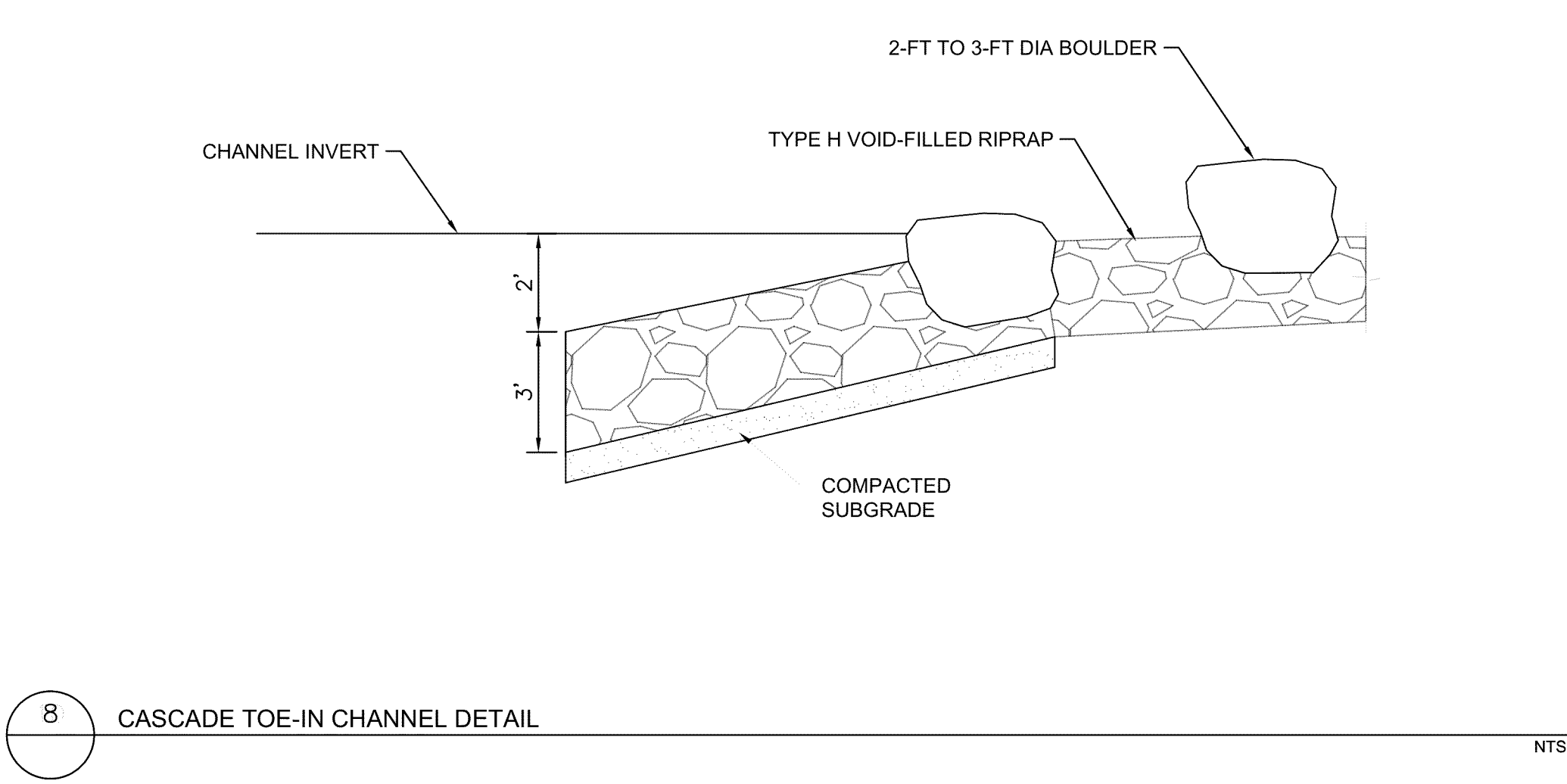
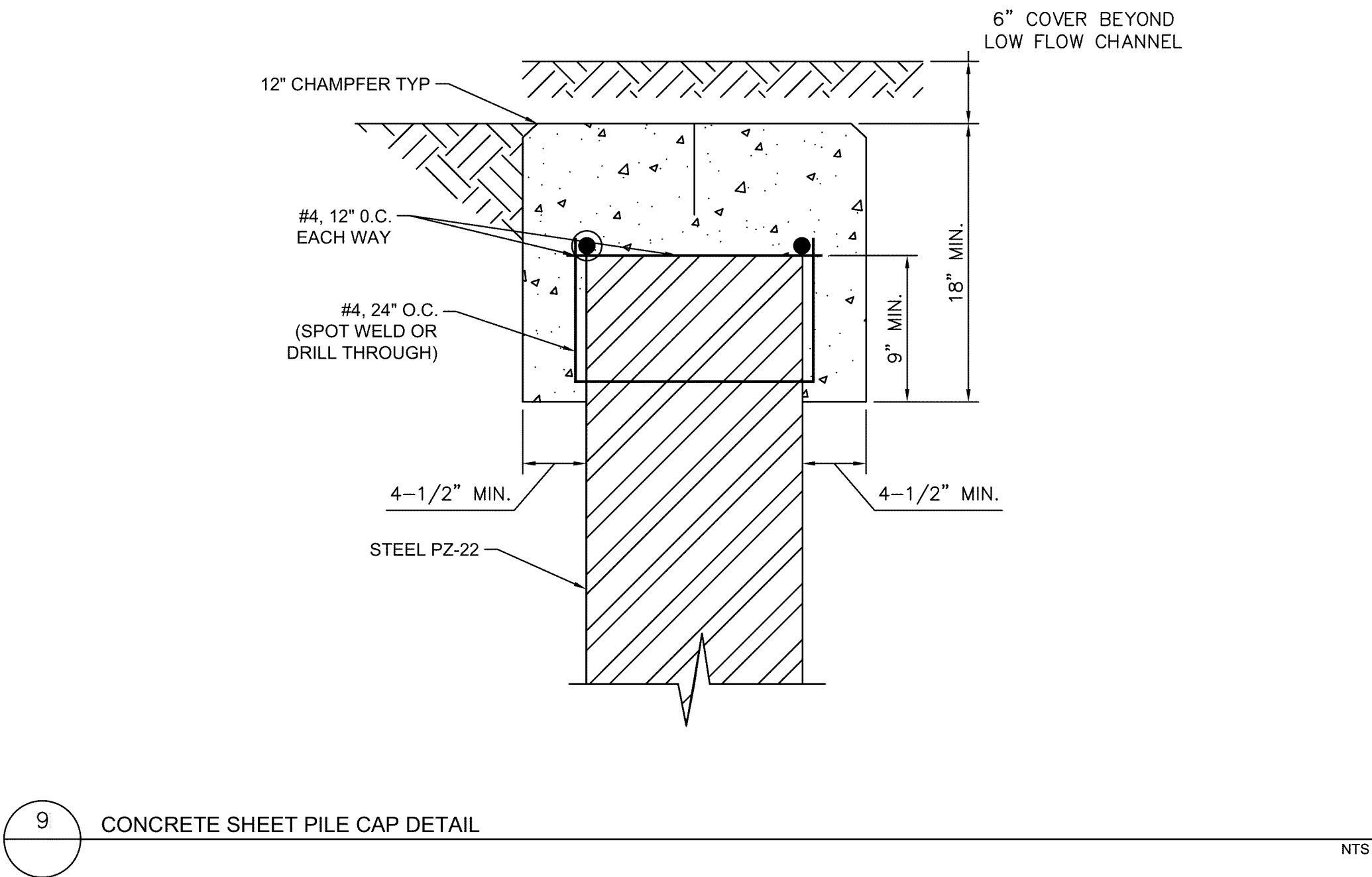
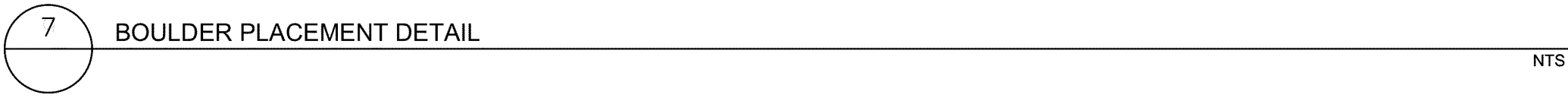
PROJECT NO.
196159002

SHEET
21 OF 28

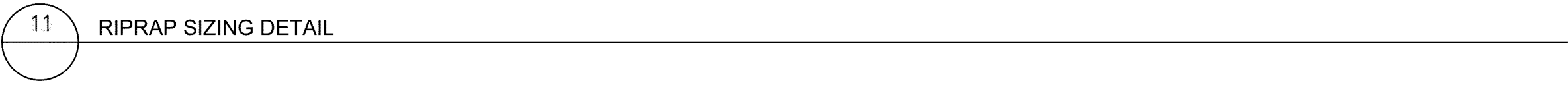
811 Know what's below.
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- FOR SLOPES SHALLOWER THAN 2H:1V (3:1 SLOPE SHOWN BELOW)
- COIR MAT ONLY REQUIRED (NO GEOGRID).
- 1 FT SOIL LIFTS WRAPPED WITH COIR MAT AS SHOWN.
- 16 FT COIR MAT WIDTH SHOWN. ANY ADJUSTMENTS REQUIRE ENGINEER APPROVAL.

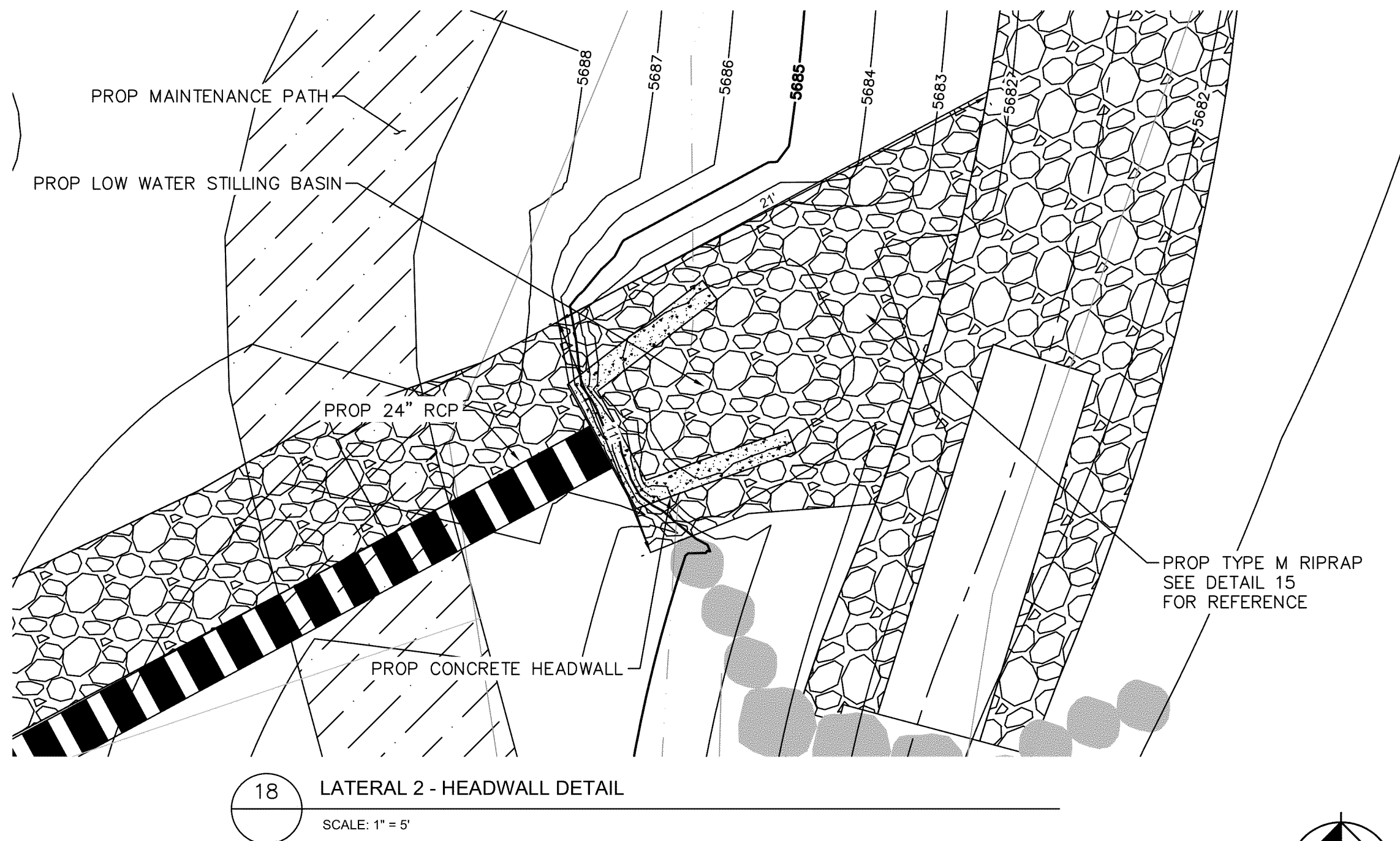
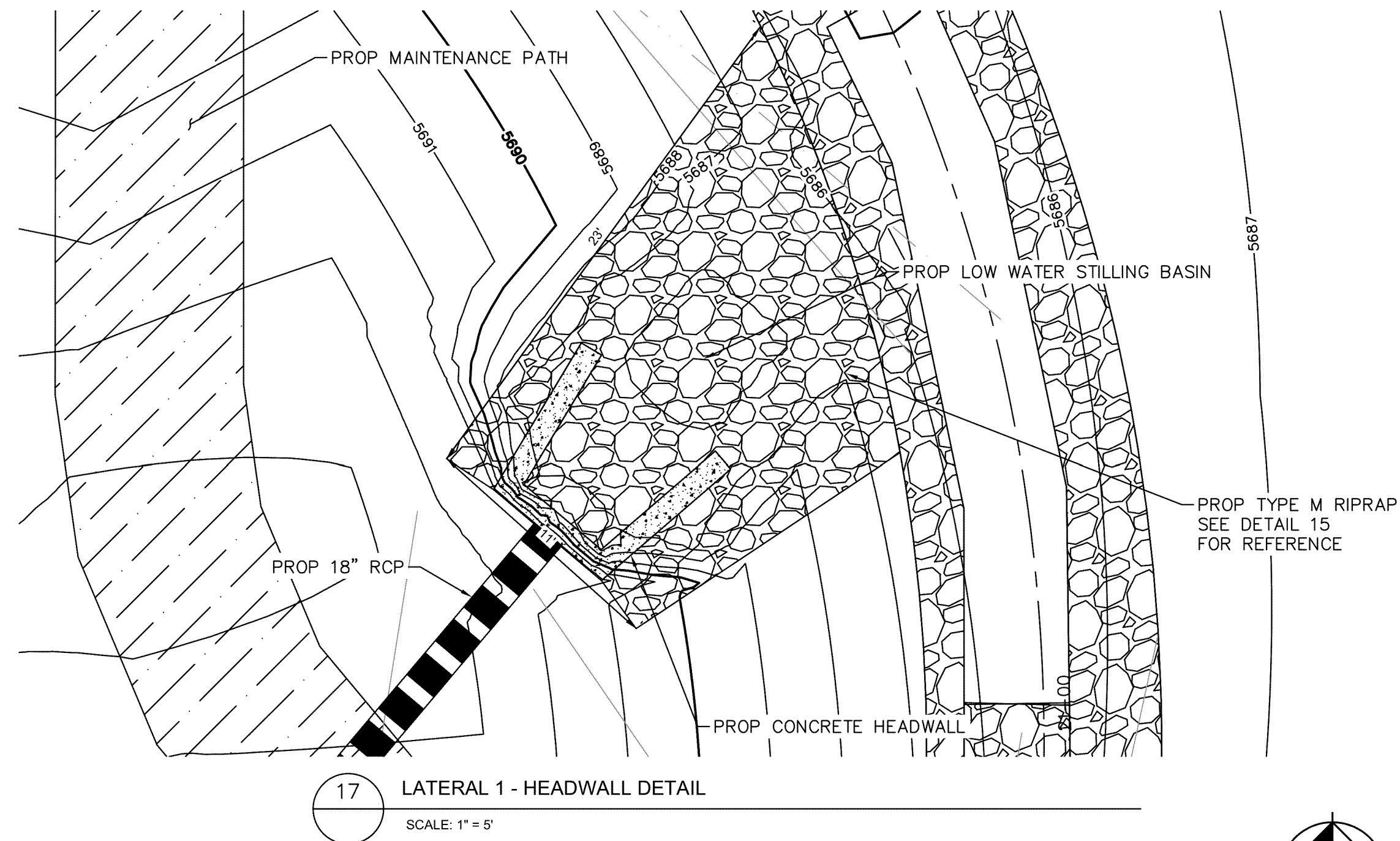




RIP RAP DESIGNATION	% SMALLER THAN GIVEN SIZE BY WIEGHT	INTERMEDIATE ROCK DIMENSION (INCHES)	D50* (INCHES)
TYPE VL	70 - 100 50 - 70 35 - 50 2 - 10	12 9 6 2	6
TYPE L	70 - 100 50 - 70 35 - 50 2 - 10	15 12 9 3	9
TYPE M	70 - 100 50 - 70 35 - 50 2 - 10	21 18 12 4	12
TYPE H	70 - 100 50 - 70 35 - 50 2 - 10	30 24 18 6	18
*D50 = MEAN ROCK SIZE			



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PROJECT OWNER

SOUTHEAST METRO STORMWATER
AUTHORITY (SEMSWA)
MOLLY TRUJILLO, PE, CFM, CPWP-M
7437 S FAIRPLAY ST,
CENTENNIAL, CO 80112
(303) 858-8844

WATER & SANITATION

SOUTHGATE SANITATION DISTRICT
3722 E ORCHARD RD,
CENTENNIAL, CO 80121
(303) 779-0261

ENGINEER

KIMLEY-HORN
FRANS J LAMBRECHTSEN, PE, CFM
6200 SOUTH SYRACUSE WAY
SUITE 300
GREENWOOD VILLAGE, CO 80111
(720) 484-4558

SURVEYOR

BASELINE ENGINEERING
NOAH NEMMERS
112 N RUBEY DR,
GOLDEN, CO 80403
(303) 549-7992
SURVEY PREPARED 04/22/2024

UTILITY LOCATE

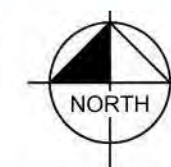
COLORADO 811
16361 TABLE MOUNTAIN PKWY
GOLDEN, CO 80403
(303) 232-1991

LAND OWNER

**SOUTH SUBURBAN PARKS AND
RECREATION**
4810 E COUNTY LINE RD,
LITTLETON, CO 80126
(303) 798-5131



1" = 1000'



SHEET INDEX

THIS GRADING, EROSION AND SEDIMENT CONTROL (GESC) DOCUMENT HAS BEEN PLACED IN THE PROJECT FILE FOR THIS PROJECT AND APPEARS TO FULFILL THE LATEST VERSION OF THE GRADING, EROSION AND SEDIMENT CONTROL MANUAL. ADDITIONAL GRADING, EROSION AND SEDIMENT CONTROL MEASURES MAY BE REQUIRED OF THE OWNER OR HIS/HER AGENTS, DUE TO UNFORESEEN EROSION PROBLEMS OR IF THE SUBMITTED PLAN DOES NOT FUNCTION AS INTENDED. THE REQUIREMENTS OF THIS GESC DOCUMENT SHALL RUN WITH THE LAND AND BE THE OBLIGATION OF THE LAND OWNER, OR HIS/HER DESIGNATED REPRESENTATIVE(S) UNTIL SUCH TIME AS THE PLAN IS PROPERLY COMPLETED, MODIFIED OR VOIDED.

ENGINEER CERTIFICATION

I HEREBY ATTEST THAT THIS GRADING, EROSION, AND SEDIMENT CONTROL (GESC) DOCUMENT FOR WEST SPRING CREEK DRAINAGE WITH THIS PLAN HAS BEEN PREPARED BY ME OR UNDER MY DIRECT SUPERVISION, AND TO THE BEST OF MY KNOWLEDGE AND ABILITY HAS BEEN PREPARED IN ACCORDANCE WITH THE LATEST VERSION OF THE GESC MANUAL. THE SIGNATURE AND STAMP AFFIXED HEREON CERTIFIES THAT THIS GESC DOCUMENT WAS PREPARED IN ACCORDANCE WITH THE REQUIRED REGULATIONS AND CRITERIA; HOWEVER, THE STAMP AND SIGNATURE DOES NOT CERTIFY OR GUARANTEE FUTURE PERFORMANCE OF THE EXECUTION OF THE PLAN BY THE OPERATOR. THE OPERATOR IS RESPONSIBLE FOR EXECUTING THE CONSTRUCTION WORK ACCORDING TO THE INFORMATION SET FORTH IN THE PLAN AND IN ACCORDANCE WITH ALL APPLICABLE REQUIREMENTS.

NAME OF ENGINEER: FRANS J LAMBRECHTSEN, PE, CFM DATE:
PE NUMBER: 54350
NAME OF ENGINEERING FIRM: KIMLEY-HORN AND ASSOCIATES, INC.

SOUTHEAST METRO STORMWATER AUTHORITY

I HEREBY CERTIFY THAT ADDITIONAL CONTROL MEASURES MAY BE REQUIRED OF THE PERMITTEE IF THE PLAN DOES NOT FUNCTION AS INTENDED. THE REQUIREMENTS OF THIS GESC DOCUMENT SHALL RUN WITH THE LAND AND BE THE OBLIGATION OF THE OWNER UNTIL SUCH TIME AS THE PLAN IS COMPLETED, MODIFIED, OR VOIDED.

DAN OLSEN
EXECUTIVE DIRECTOR: _____ DATE: _____

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ENGINEERING & CONSTRUCTION DIVISION

These plans have been reviewed by SEMSWA for Grading,
Erosion and Sediment Control Improvements Only.

Kimley»Horn
© 2026 KIMLEY-HORN AND ASSOCIATES, INC.
6200 S SYRACUSE WAY, SUITE 300
GREENWOOD VILLAGE, CO 80221 (303) 228-2300

DESIGNED BY: CKF
DRAWN BY: CKF
CHECKED BY: TOS
DATE: 6/15/2026

RING CREEK DOWNSTREAM E PHILLIPS
 AVENUE CHANNEL IMPROVEMENTS
 100% CONSTRUCTION DRAWINGS
 GESC COVER SHEET

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Kimley-Horn and Associates, Inc.

PROJECT NO.
196159002

SHEET
1 OF 19

PROJECT DESCRIPTION

Project description (proposed land use), nature of construction at site, construction phasing, and proposed schedule:

The project proposes to address the risk to life and safety the existing channel poses to the surrounding structures adjacent to the channel. West Spring Creek is an incised channel with portions of the channel being more than 25 ft below the adjacent property lines of the neighborhood surrounding the creek. This project proposed raising the channel bed with three boulder step pool structures throughout to provide grade control. Majority of the construction will be fill grading. The existing maintenance path will be realigned and transition to a ATV maintenance path along the entire length of the creek. The existing two storm systems that outfall to the creek are proposed to be raised to the proposed channel streamline.

Total area of the site (acres):
5.60

Total area of construction limits (acres):
5.60

Total area of disturbance limits (acres):
2.83

Project location (address or latitude and longitude at the expected main entrance to site):

The channel runs south to north and is bound by East Phillips Ave and East Mineral Ave. Expected main entrance to the site will be located at the East Mineral Ave entrance at:
Lat: 39.573446, Long: -104.912239.

EXISTING SITE CONDITIONS

Describe the existing topography, drainage patterns, and percent native vegetation cover on the site if the site is undisturbed. Alternatively, if the site is disturbed, describe the percent native vegetation cover in a similar, local and undisturbed area or adequate reference area. Include the methodology for determining the percent native vegetation cover and reference photos on Sheet 2.

The existing topography of the site has steep slide slopes ranging from 5:1 to 1:1.5. Grade variation from the channel thalweg to the top of bank ranges from 3ft to >25 ft. Flow is conveyed south to north through the existing incised channel. The site is 95% vegetated with majority of vegetation being native species. Vegetation cover was determined by aerial imagery and a site walk. See PHOTOS section. Two storm systems outfall to the creek, a 24 in RCP outfalls with flows from South Monaco Court and an 18 in RCP with flows from South Monaco Circle.

STORMWATER MANAGEMENT CONSIDERATIONS

Describe the general flow direction and manner in which runoff leaves the limits of construction. Include a description of the immediate conveyance or area receiving the runoff and the receiving water(s), if different than the immediate conveyance or area receiving the runoff. If the stormwater runoff is to a municipal separate storm sewer system, include the name of the entity owning that system, the location(s) of the stormwater runoff, and the receiving water(s).

The channel project has flow conveyed south to north via the existing West Spring Creek channel. The channel receives runoff from the upstream culvert under East Phillips Ave, as well as, flow from the west neighborhood from two separate storm systems. This creek is not within the Creek Cherry Watershed.

Describe how stormwater runoff from and through the site will be managed during construction:

During construction, stormwater runoff from the upstream culvert will be diverted via a temporary diversion ditch. The two stormwater systems will be diverted into the temporary diversion ditch as well. Flows will be conveyed via the ditch downstream until reaching the existing sculpted concrete drop structures.

SOILS

Topsoil composition and name from soils testing (such as 22% clay, 66% sand, 12% silt, Sandy Clay Loam):

Dominant soils within the project area are Renohill-Buick loams with 34% clay, 33% sand, 33% silt. (NRCS Classification).

Hydrologic soil group (USDA-NRCS classification):

Hydrologic soil group D (USDA-NRCS classification)

Topsoil depth (inches):

Topsoil depth has not been determined however it is estimated to be ~6 inches.

Is the topsoil suitable based on testing? Include justification.

Topsoil testing has not been completed however will be completed by the project team prior to construction.

If the topsoil is not suitable, provide the recommended amendments or import specifications. Note: a standard soil amendment recommendation includes fertilizer type, application rate per acre or 1,000 square feet, and application schedule.

Soil amendments will be determined by an ecologist during construction following topsoil testing and coordination with the project team.

FINAL STABILIZATION

Discuss permanent stabilization (structures, pavement or hardscape, sod, seeding, landscaping, etc.)

Permanent stabilization will include revegetation of all disturbed areas per the FINAL GESC plans including erosion control blanket and soil lifts. All gravel maintenance paths will be restored per SEMSWA standards. On site drainage features like the two storm systems will be inspected and cleaned of sediment and debris prior to completing construction. Adjacent drainage features to the site like the curb and gutter, and adjacent inlets on East Mineral Ave will be inspected and cleaned of sediment and debris via street sweeping.

CONTROL MEASURES

For each of the following pollutant sources, discuss what structural and/or non-structural control measures will be selected, designed, installed, and maintained during construction.

Land disturbance and storage of soils:

Two stockpiles will be utilized for bulk storage of fill on site. All stockpiles will be on South Suburban Parks and Recreation owned land and uphill of the channel bed. These piles will be protected by reinforced silt fences.

Vehicle tracking:

Four vehicle tracking pads will be placed on site. Two will be placed at the entrances into the site at a minimum of 50 ft in length, one at the north entrance on East Mineral Ave and one at the south entrance into the site along East Phillips Ave. The other two will be placed on the east side of the site. The vehicle tracking control will be installed per the SEMSWA detail. The Contractor shall restore any vegetation, asphalt or concrete damaged during construction activities.

Loading and unloading operations:

Loading and unloading operations will occur in designated areas identified by the contractor. Construction activities will be done within the defined limits of construction area. The contractor will minimize disturbing areas outside of the designated disturbance area.

Outdoor storage of construction site materials, building materials, fertilizers, and chemicals:

Two staging areas will be utilized for the project, one at the entrance from East Phillips Ave and one at the entrance onto the site adjacent to East Mineral Ave. Refer to the GESC plan for specific location. Construction site materials will be stored to prevent leaking or contamination to the soil on site.

Bulk storage of materials:

Two staging areas will be utilized for the project, one at the entrance from East Phillips Ave and one at the entrance onto the site adjacent to East Mineral Ave. Construction site materials will be stored safely onsite until utilized during construction. Refer to the GESC plan for specific location.

Vehicle/equipment maintenance and fueling:

All vehicle maintenance and fueling shall occur in the staging area and at least 50 feet away from the waterway. The staging area have a perimeter of silt fence or erosion control logs.

Significant dust or particle generating processes:

Dust shall be controlled with street sweeper equipment and water trucks to apply water on the exposed soil. The contractor shall minimize dust by maintaining damp soil on site within disturbed areas.

Concrete truck/equipment washing, including the chute, associated fixtures, and equipment:

The concrete washout area will utilize an Ecopan in the designated staging area. The concrete washout area shall have sufficient capacity for all concrete associated equipment to be washed out.

Dedicated asphalt and concrete batch plants:

N/A

Other areas or operations where spills can occur and management of contaminated soil:

For spills, an appropriate spill response and clean-up procedures shall be followed upon the incident of a spill within any area of the project site.

Routine maintenance activities involving fertilizers, pesticides, detergents, fuels, solvents, and oils:

All maintenance activities involving fertilizers, pesticides, fuels etc. will take place within the protected stabilized staging area located at least 50 feet away from any existing drainage features. For spills, an appropriate spill response and clean-up procedures shall be followed upon the incident of a spill within any area of the project site.

Other non-stormwater discharges including dewatering not covered by a CDPS permit, discharges covered under other CDPS permits, wash water that may contribute to pollutants, non-industrial waste sources, discharges from existing springs, irrigation return flow, and emergency fire-fighting activities. Note: proposed use of CDPHE-WQCD Low Risk Discharge Guidance Policy.

Portable toilets will be utilized on site. Toilets will be placed away from the existing stormwater systems and adjacent drainageway on a stable surface and staked down to prevent tipping. Non-industrial waste sources will be disposed of properly offsite.

Other potential pollutants:

N/A

SEED MIX

Seed mix (if different from SEMSWA standard seed mix):
See the attached seed mix design.

CALCULATIONS AND SIZING

Please check the control measures that are planned to be used during construction and provide the applicable calculations noted as necessary in the GESC Manual and Standard Notes and Details, including the following:

- ☐ Cut Back Curb (CBC) - required length, width and depth of sediment storage for disturbed tributary area
- ☒ Check Dam (CD) - required length, crest length, and depth
- ☒ Diversion Ditch (DD) - longitudinal slope, minimum width, depth, and if DD is lined or unlined based on site conditions to include flow, longitudinal slope, soil type
- ☒ Erosion Control Blanket (ECB) - sized for the shear stress from a 2-year return period event for site conditions expected during the operation of the matting
- ☐ Reinforced Check Dam (RCD) - required length, crest length, and depth
- ☐ Sediment Basin (SB) - orifice hole diameter and number or holes, overflow crest length, bottom area dimensions, pipe diameter
- ☐ Sediment Trap (ST) - length and width
- ☐ Slope Intercept Ditch (SID) - depth
- ☒ Temporary Stream Crossing (TSC) - length, crest length, crossing height, number of pipes and diameter, type of pipe
- ☐ Vehicle Tracking Control (VTC) - length, if less than 50-feet

DIVERISON DITCH CALCULATIONS

The diversion ditch to convey the 2-year flow for West Spring Creek is 118 cfs.
Ditch Length: ~1400 ft
Ditch Slope: ~3.4%
Side slopes: 2:1
Bottom Width: 2 ft

Flowmaster used to determine normal depth of diversion ditch to be 2.2 ft.

Diversion ditch path shall be determined by the contractor on site. Ditch to be plastic lined per diversion ditch detail.

EROSION CONTROL BLANKET CALCULATIONS

Coir Erosion control blanket shall be placed within the low flow channel and overbank and in all areas within the channel that exceed 0.5 psf of shear stress and on upland disturbed areas as indicated.

Check dams to be placed per plans. Check dams to be 4-ft wide (perpendicular to flow) and 1-ft in height.

Temporary stream crossing to be determined by the contractor on site.

CALCULATIONS AND SIZING (CONT.)

PHOTOS

Include existing site conditions reference photos below at a minimum in locations where the final stabilization is seed.



1. WATER QUALITY SHALL BE ONE OF THE CONTRACTOR'S PRIMARY CONCERNS WHILE WORKING IN THE WATERWAYS. A WATER CONTROL PLAN IS INTENDED TO HELP KEEP THE WATER CLEAN AND THE WORK AREA DEWATERED WHILE COMPLYING WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS. THE CONTRACTOR'S WATER CONTROL PLAN AT A MINIMUM MUST, THEREFORE, BE COMPLIANT WITH SEMSWA'S GRADING EROSION AND SEDIMENT CONTROL (GESC), CDPHE'S STORMWATER MANAGEMENT PLAN (SWMP), CDPHE'S DEWATERING PERMIT, AND ARMY CORPS OF ENGINEERS NATIONWIDE 404 PERMITS.
2. THE CONTRACTOR SHALL DEVELOP WITH SEMSWA A WATER CONTROL PLAN AND SUBMIT IT TO SEMSWA FOR REVIEW AND MUST BE APPROVED PRIOR TO CONTRACT AWARD AND NOTICE TO PROCEED.
3. WATER CONTROL INCLUDES CHANNEL BASE FLOW, STORMWATER RUNOFF, SNOW, ICE, AND GROUNDWATER. THE CONTRACTOR'S WATER CONTROL PLAN SHALL INCLUDE ALL MEANS AND METHODS NECESSARY TO LEGALLY CONVEY WATER THROUGH AND FROM THE PROJECT SITE SO THAT THE PROJECT MAY BE CONSTRUCTED. THE WATER QUALITY OF PROPERTIES UPSTREAM OR DOWNSTREAM OF THE PROJECT LIMITS SHALL NOT BE IMPACTED NEGATIVELY BY THE PROJECT'S CONSTRUCTION ACTIVITIES.
4. THE CONTRACTOR SHALL CONSIDER THE PROJECT SITE SOIL TYPE(S) AND PARTICLE SIZE(S) TO BE REMOVED TO MEET THE DISCHARGE LIMITS STIPULATED IN THE DEWATERING PERMIT WHEN CONSIDERING THE CONSTRUCTION DEWATERING SYSTEM TO BE IMPLEMENTED.
5. THE CONTRACTOR'S MEANS AND METHODS INCLUDED IN THE CONTRACTOR'S APPROVED WATER CONTROL PLAN SHALL INCLUDE ALL WATER CONTROL SPECIFIC MEASURES IN THE GRADING EROSION AND SEDIMENT CONTROL (GESC) PLAN IN ADDITION TO ADDITIONAL WATER CONTROL ITEMS INCLUDING, BUT NOT LIMITED TO PLASTIC-LINED DIVERSION DITCHES, PIPED CLEAR WATER, COFFER DAMS, WELL POINTS, HOSES, PUMPS, GENERATORS, SOUNDPROOFING, TEMPORARY POWER, TRENCH WALL SHORING AND ANY OTHER WATER CONTROL MEASURES NECESSARY AND APPROVED BY SEMSWA.
6. THE CONTRACTOR'S WATER CONTROL PLAN SHALL ACCOUNT FOR CONDITIONS THAT MAY REQUIRE RELOCATING WATER CONTROL MEASURES AS NEEDED TO MAINTAIN COMPLIANCE WITH APPLICABLE PERMITS AND BE BASED ON THE CONTRACTOR'S ACTUAL CONSTRUCTION SEQUENCE AND SELECTED MEANS AND METHODS, AND FIELD CONDITIONS.
7. THE CONTRACTOR SHALL INSPECT DAILY OR AS NECESSARY THEIR IMPLEMENTED WATER CONTROL PLAN. SEMSWA WILL ALSO INSPECT AS NECESSARY. IF FOR ANY REASON THE CONTRACTOR'S IMPLEMENTED WATER CONTROL PLAN NEEDS CORRECTIVE ACTION AS IDENTIFIED BY THE CONTRACTOR OR AS DIRECTED BY SEMSWA OR ITS OWNERS' REPRESENTATIVE, TO MAKE REPAIRS OR MODIFICATIONS, THE CONTRACTOR SHALL MAKE ALL SUCH CORRECTIONS IMMEDIATELY.
8. WATER CONTROL MEASURES MUST BE ABLE TO CONVEY THE WATER THAT FLOWS THROUGH THE SITE PLUS AN ADDITIONAL 10% TO ACCOMMODATE STORM EVENTS. THE CONTRACTOR SHALL CONSIDER CONTROL OF THE AVERAGE DAILY BASE FLOW THAT IS APPROXIMATELY 35 CUBIC FEET PER SECOND (CFS). CONTRACTOR SHOULD ALSO CONSIDER THAT THE APPROXIMATE 2-YR DISCHARGE FOR WEST SPRING CREEK IS 118 CFS.
9. IN THE EVENT THAT THE BASE FLOW MAY BE EXCEEDED AND CANNOT BE CONVEYED THROUGH THE CONTRACTOR'S WATER CONTROL DIVERSION, THE CONTRACTOR IS EXPECTED TO IMPLEMENT THE APPROPRIATE PERMANENT OR TEMPORARY CONTROL MEASURES TO PROTECT THE WORK. IF THE CONTRACTOR'S DIVERSION FAILS TO FUNCTION AS INTENDED, THE CONTRACTOR MAY BE REQUIRED TO SUBMIT SELF-REPORTING TO CDPHE PER THE PERMIT REQUIREMENTS.
10. THE CONTRACTOR'S SELECTED TEMPORARY STREAM CROSSING(S) SHALL BE INSTALLED ACCORDING TO THE TERMS AND CONDITIONS OF ALL PROJECT PERMITS UTILIZING SOUND ENGINEERING, HYDRAULIC, AND POLLUTION CONTROL PRACTICES. THE STREAM CROSSINGS MUST ACCOMMODATE PASSAGE FOR BASE FLOWS AND ENSURE THAT AT NO TIME SHALL CONTRACTORS' EQUIPMENT HAVE DIRECT CONTACT WITH ANY STREAMFLOW, AND CROSSINGS SHALL HAVE NO NEGATIVE IMPACTS ON WATER QUALITY OR DOWNSTREAM PROPERTY BEFORE, DURING, OR AFTER ITS REMOVAL.
11. THE CONTRACTOR MUST MONITOR, MAINTAIN, AND REVISE THEIR WATER CONTROL TO ANTICIPATE CHANGES IN CONDITIONS, INCLUDING WEATHER EVENTS, FREEZING CONDITIONS, OR REVISIONS TO THE GESC PLAN THAT MAY IMPACT THE WATER CONTROL PLAN.

1. THIS IS A STANDARD DRAWING SHOWING COMMON SYMBOLLOGY. ALL SYMBOLS ARE NOT NECESSARILY USED ON THIS PROJECT.
2. SCREENING OR SHADING OF WORK IS USED TO INDICATE EXISTING COMPONENTS OR TO DE-EMPHASIZE PROPOSED IMPROVEMENTS TO HIGHLIGHT SELECTED TRADE WORK. REFER TO CONTEXT OF EACH DRAWING FOR USAGE.
3. THESE ABBREVIATIONS APPLY TO THE ENTIRE SET OF CONTRACT DRAWINGS.
4. LISTING OF ABBREVIATIONS DOES NOT IMPLY THAT ALL ABBREVIATIONS ARE USED IN THE CONTRACT DRAWINGS.
5. ABBREVIATIONS SHOWN ON THIS SHEET INCLUDE VARIATIONS OF A WORD. FOR EXAMPLE, "MOD" MAY MEAN MODIFY OR MODIFICATION; "INC" MAY MEAN INCLUDED OR INCLUDING AND "REINF" MAY MEAN EITHER REINFORCE OR REINFORCING.

AC	ASPHALT CONCRETE
APPROX	APPROXIMATE
ASTM	AMERICAN SOCIETY OF TESTING AND MATERIALS
BOW	BOTTOM OF WALL
BP OR BOP	BEGINNING OF PROJECT
CLR	CLEARANCE
CDOT	COLORADO DEPARTMENT OF TRANSPORTATION
COM	COMMUNICATIONS
CONC	CONCRETE
DIFF	DIFFERENCE
DWG	DRAWING
E	EAST OR ELECTRIC
EA	EACH
ELEV	ELECTRIC OR ELEVATION
EP OR EOP	END OF PROJECT
ESMT	EASEMENT
EW	EACH WAY
EX/EXIST	EXISTING
FES	FLARED END SECTION
FG	FINISHED GRADE
FL	FLOW LINE
FT	FOOT/FEET
GSB	GROUTED SLOPING BOULDERS
HCL	HORIZONTAL CONTROL LINE
HP	HIGH POINT
K	VERTICAL CURVE RATIO
LF	LINEAR FEET
LP	LOW POINT
LT	LEFT
MAINT	MAINTENANCE
ME	MATCH EXISTING
MIN	MINIMUM
N	NORTH
NE	NORTHEAST
NO	NUMBER
NW	NORTHWEST
PROP	PROPOSED
R	RADIUS
RD	ROAD
REV	REVISION
RT	RIGHT
R/W	RIGHT-OF-WAY
S	SOUTH
SD	STORM DRAIN
SE	SOUTHEAST
SF	SQUARE FEET
SS	SANITARY SEWER
ST	STREET
STA	STATION
SW	SIDEWALK OR SOUTHWEST
SY	SQUARE YARDS
TB	THRUST BLOCK
TOW	TOP OF WALL
TYP	TYPICAL
WA	WATER
WE	WEST
W/	WITH

@	AT
Ø	PHASE, DIAMETER
&	AND
'	FEET, MINUTES
"	INCHES, SECONDS
°	DEGREE
#	NUMBER
℄	CENTERLINE

SYMBOL OR LINETYPE	DESCRIPTION
----- XXXX -----	EXISTING MAJOR CONTOUR
----- XXXX -----	EXISTING MINOR CONTOUR
-----	PROPERTY LINE
----- G -----	GAS LINE
----- W -----	WATER LINE
----- OH -----	OVERHEAD POWER
----- ST -----	STORM LINE
----- E -----	UNDERGROUND POWER LINE
----- SS -----	SANITARY LINE
----- FO -----	COMMUNICATION LINE, FIBER OPTIC
----- T -----	COMMUNICATION LINE, TELEPHONE
=====	CURB AND GUTTER
	TREE/SHRUB
	SIGN
	TRAFFIC SIGNAL
	GAS VALVE
	LIGHT POLE
	POWER POLE
	GUY WIRE
	WATER VALVE
	FIRE HYDRANT
=====	EXISTING 100-YEAR FEMA BOUNDARY

SYMBOL OR LINETYPE	DESCRIPTION
XXXX	PROPOSED CHANNEL MAJOR CONTOUR
XXXX	PROPOSED CHANNEL MINOR CONTOUR
XXXX	PROPOSED SITE MAJOR CONTOUR
XXXX	PROPOSED SITE MINOR CONTOUR
10+00	PROPOSED STREAM CENTERLINE ALIGNMENT
---	PROPOSED STREAM TOE
B	PROPOSED STREAM BANKFULL
BB	PROPOSED STREAM BANKFULL BENCH (BACK)
- - - -	STREAMSIDE ZONE
---	TOP OF BANK
	PROPOSED TYPE M VOID-FILLED RIPRAP
	PROPOSED GRAVEL MAINTENANCE PATH
	PROPOSED 1-FT SOIL LIFTS
	PROPOSED SHEETPILE CUTOFF WALL
LOC	PROPOSED LIMITS OF CONSTRUCTION
	PROPOSED BOULDER CASCADE

[illegible]

DESIGNED BY: CKP
DRAWN BY: CKP
CHECKED BY: TOS
DATE: 6/15/2026

WEST SPRING CREEK DOWNSTREAM E PHILLIPS
AVENUE CHANNEL IMPROVEMENTS
100% CONSTRUCTION DRAWINGS
LEGEND AND SYMBOLS

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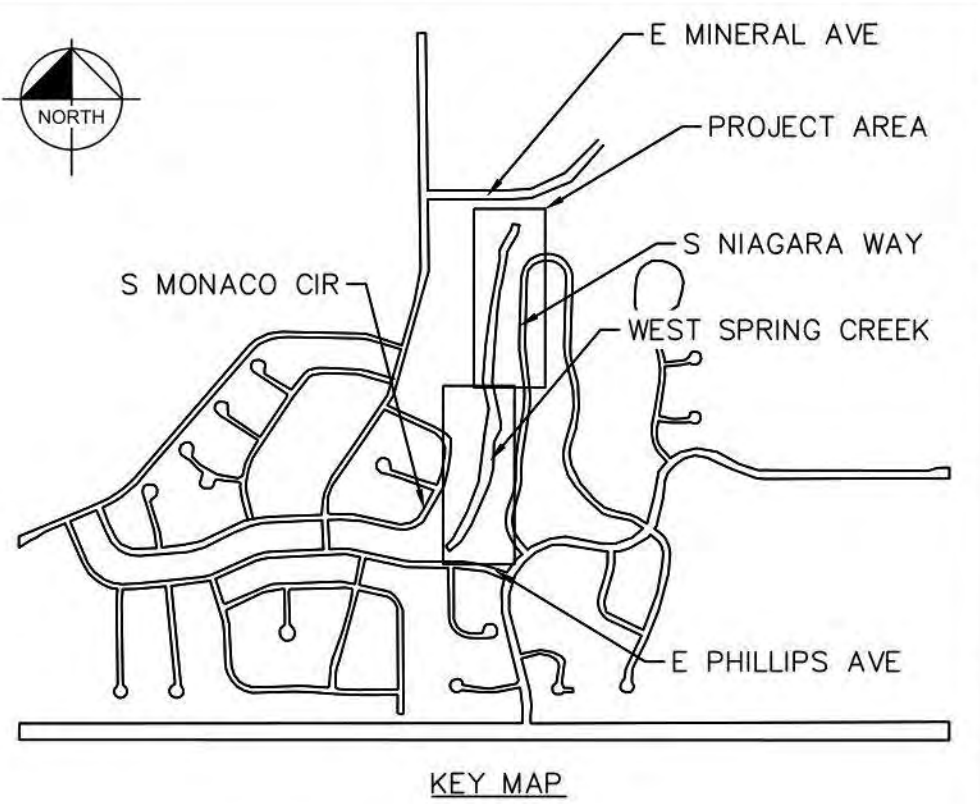
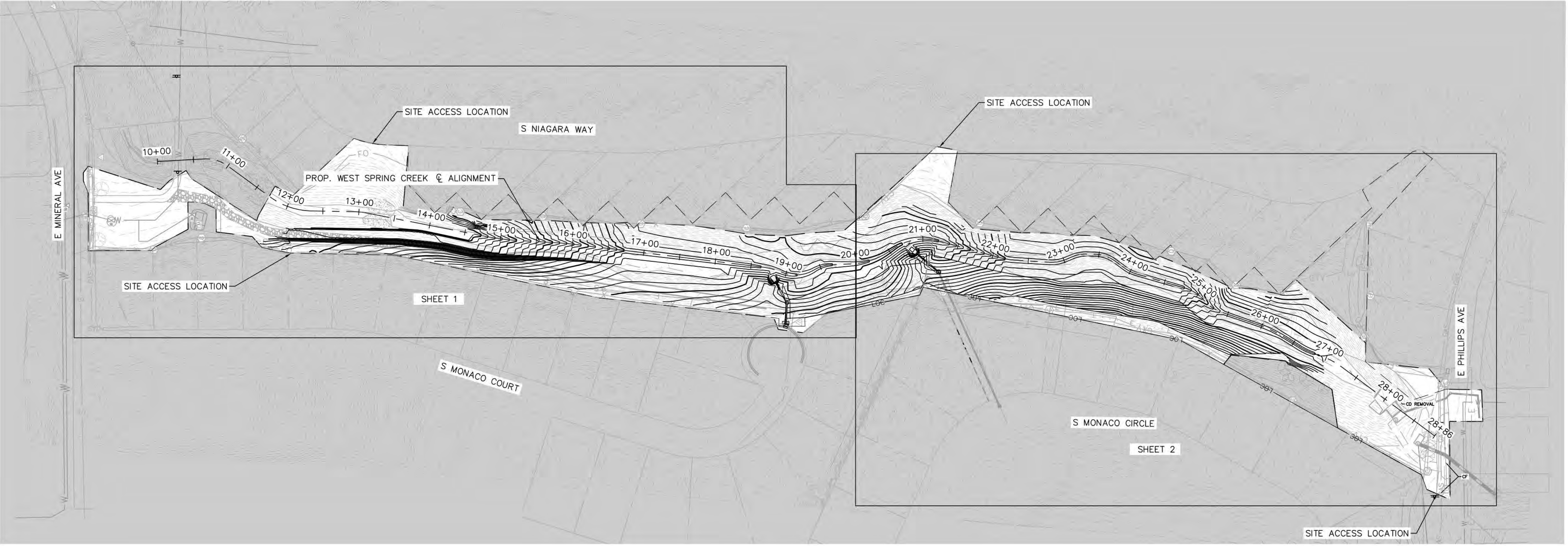
PROJECT NO.
196159002

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K:\NEW\WATERRESOURCES\196159002_WEST SPRING CREEK 60% DESIGN\CADD\PLANSHEET\196159002.GESC - OVERVIEW.DWG
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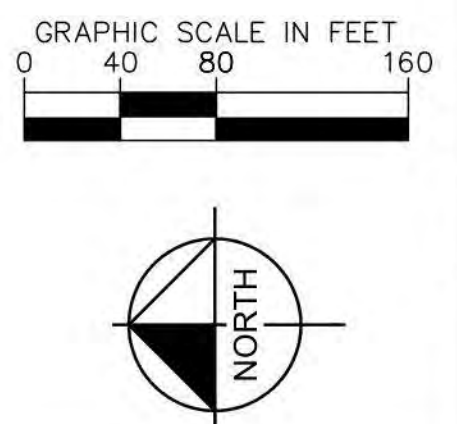


GESC OVERALL PLAN VIEW



SEMSWA ACCEPTANCE BLOCK

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WEST SPRING CREEK DOWNSTREAM E PHILLIPS
AVENUE CHANNEL IMPROVEMENTS
100% CONSTRUCTION DRAWINGS
OVERVIEW

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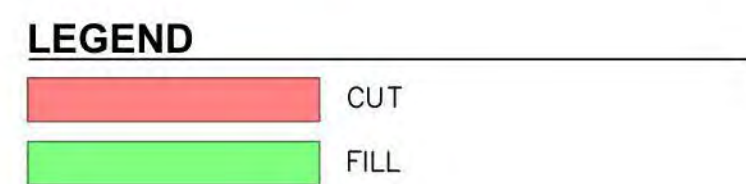
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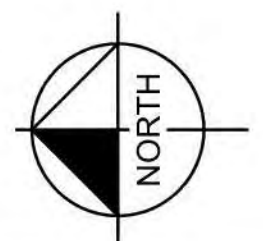
NO. REVISION BY DATE APPR.



CUT (CU. YDS)	21
FILL (CU. YDS)	32598

GRAPHIC SCALE IN FEET

A horizontal scale bar with tick marks at 0, 40, 80, and 160 feet. The bar is divided into alternating black and white segments. The first segment (0-40) is black, the second (40-80) is white, and the third (80-160) is black.



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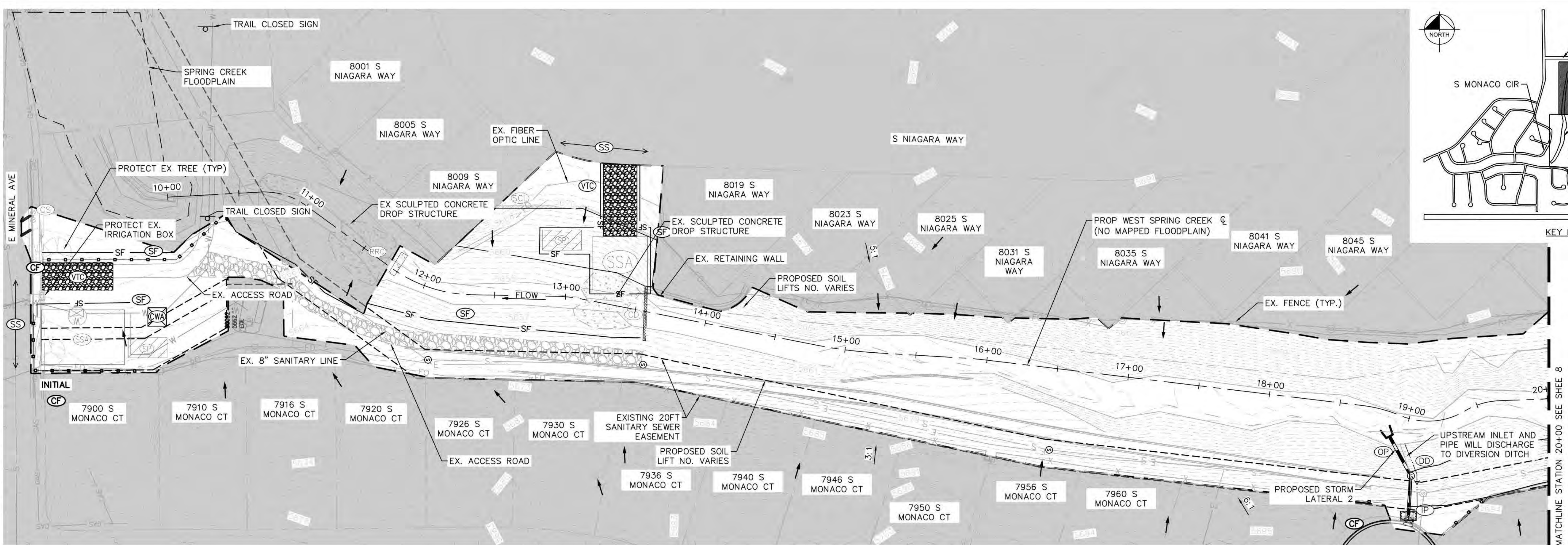
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SHEET 7 OF 19
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GESC INITIAL CONDITIONS

INITIAL GESC NOTES:

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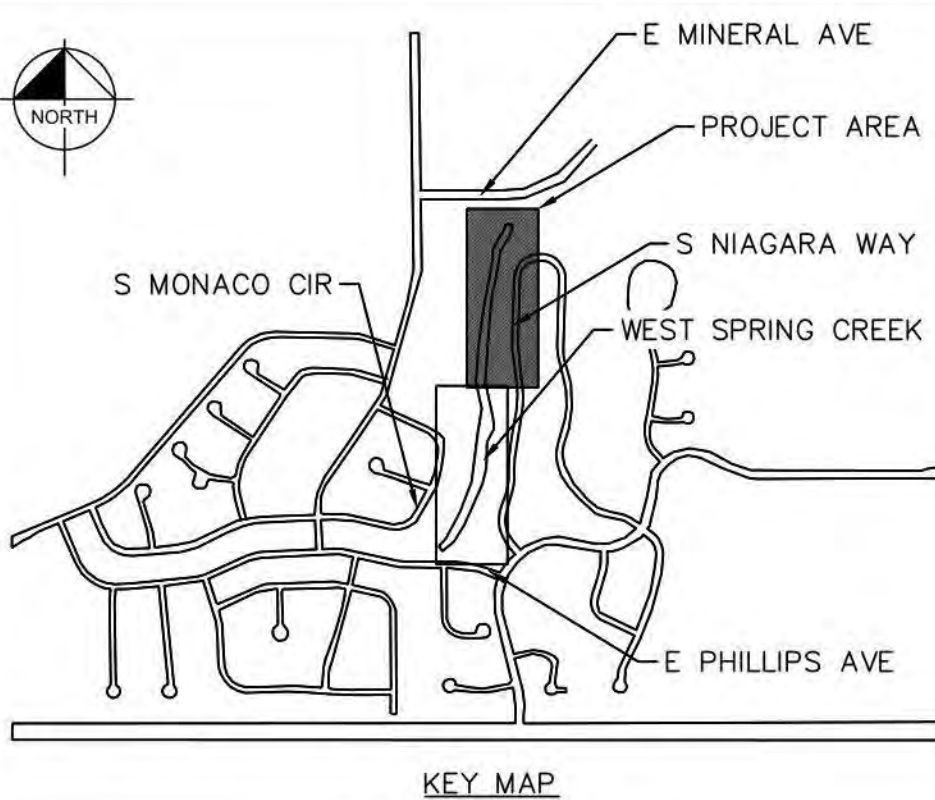
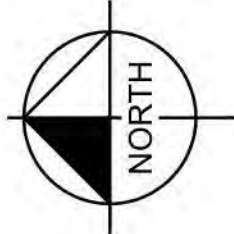
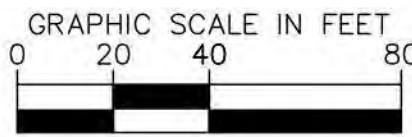
LEGEND

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- FLOW ARROW
- CF CONSTRUCTION FENCE
- SF SILT FENCE
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ENGINEERING & CONSTRUCTION DIVISION

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WEST SPRING CREEK DOWNSTREAM E PHILLIPS
AVENUE CHANNEL IMPROVEMENTS
100% CONSTRUCTION DRAWINGS
GESC PLANS - INITIAL CONDITIONS

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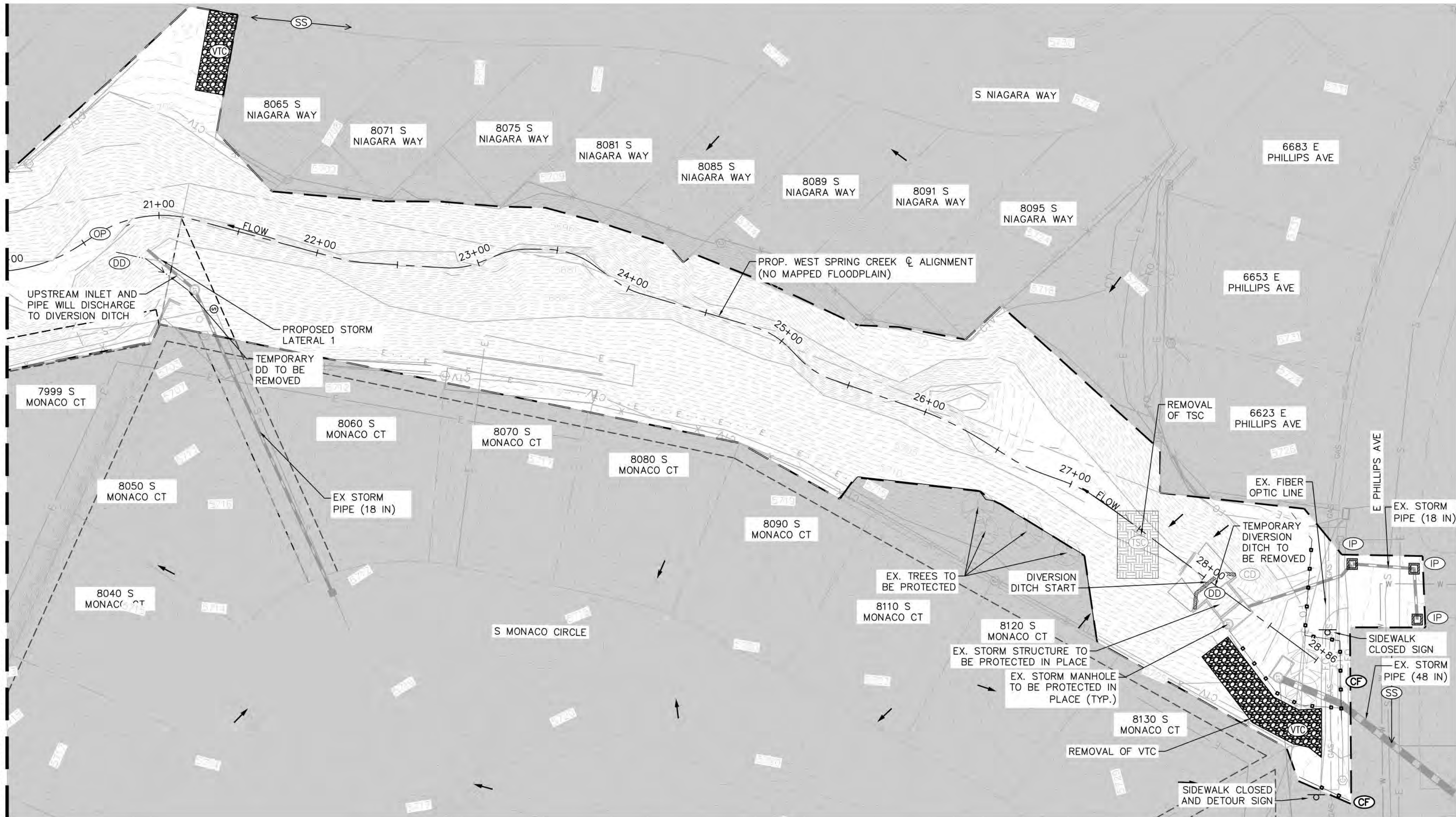
PROJECT NO.
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7 OF 19



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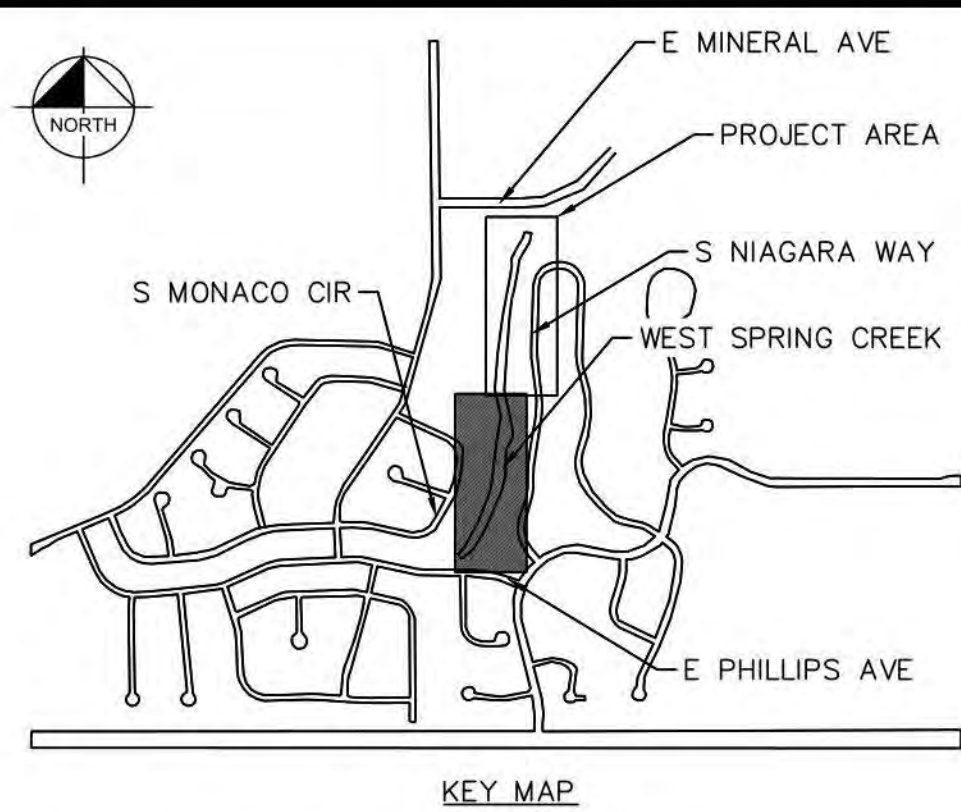
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GESC INITIAL CONDITIONS



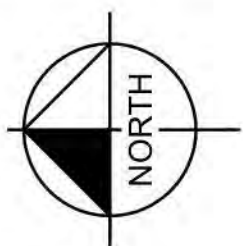
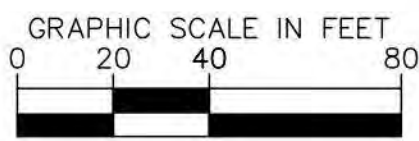
LEGEND

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- FLOW ARROW
- CF CONSTRUCTION FENCE
- SF SILT FENCE
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- IP INLET PROTECTION
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SEMSWA ACCEPTANCE BLOCK

ENGINEERING & CONSTRUCTION DIVISION

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NO.	REVISION	BY	DATE	APPR.

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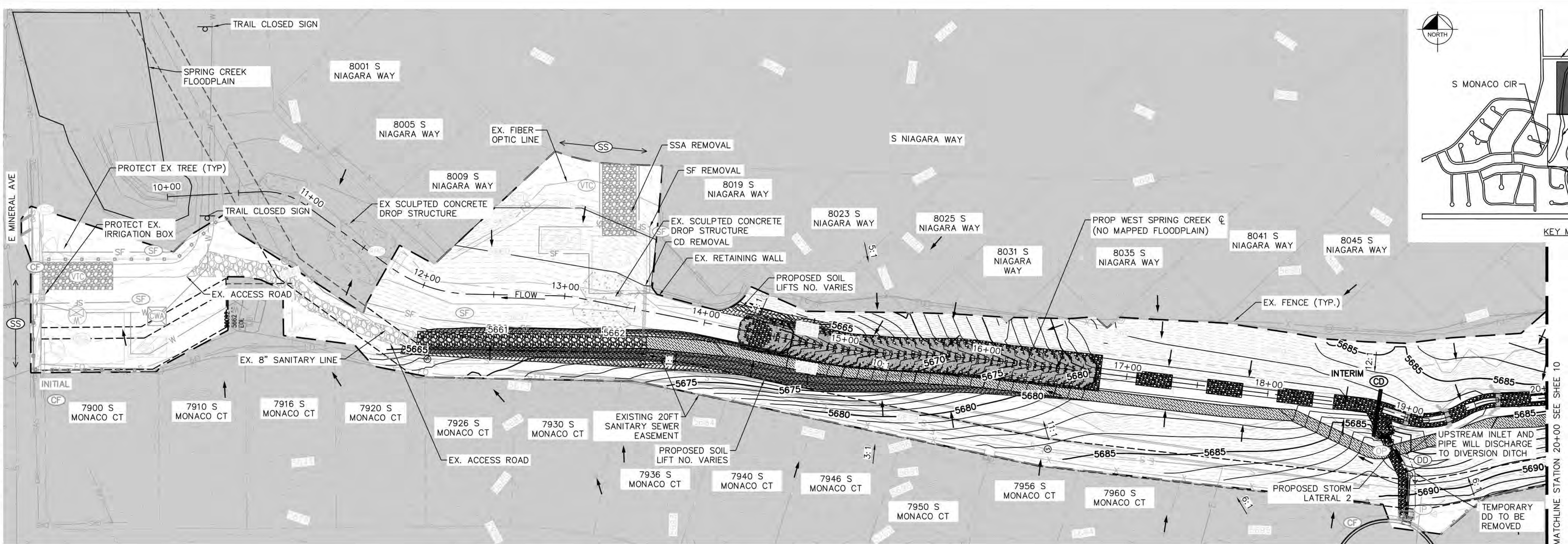
WEST SPRING CREEK DOWNSTREAM E PHILLIPS
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100% CONSTRUCTION DRAWINGS
GESC PLANS - INITIAL CONDITIONS

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NO. []



GESC INTERIM CONDITIONS

INTERIM GESC NOTES:

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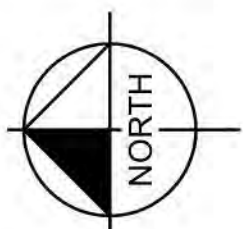
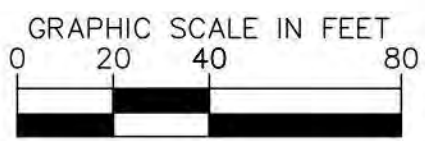
LEGEND

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WEST SPRING CREEK DOWNSTREAM E PHILLIPS AVENUE CHANNEL IMPROVEMENTS
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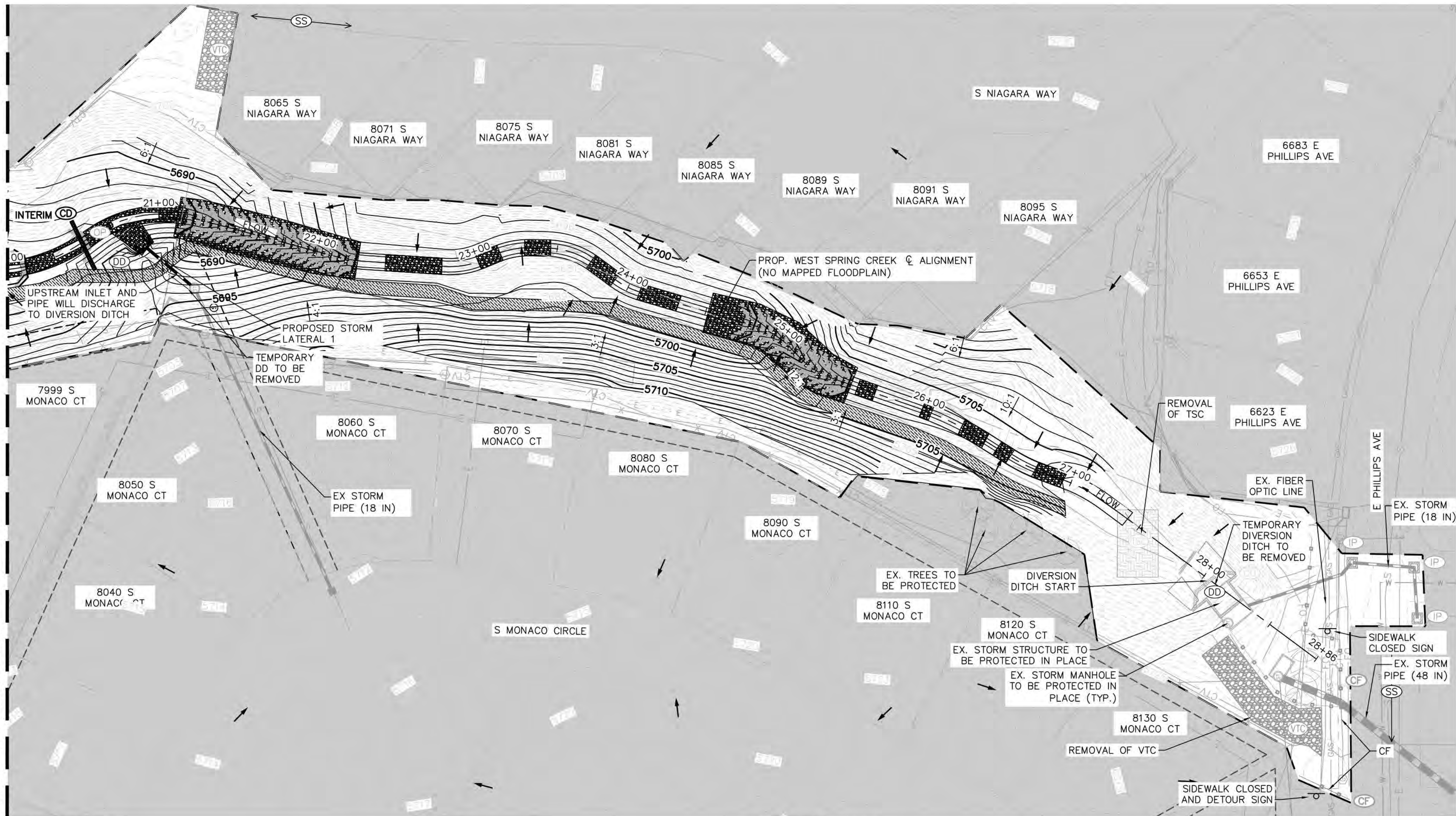
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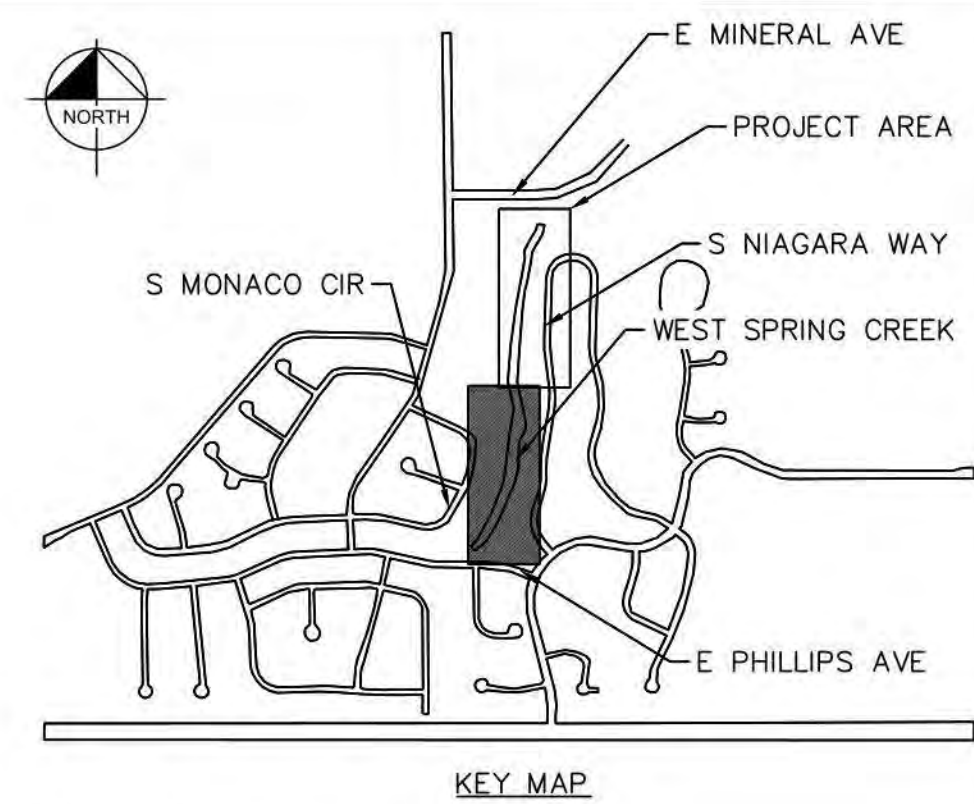
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GESC INTERIM CONDITIONS



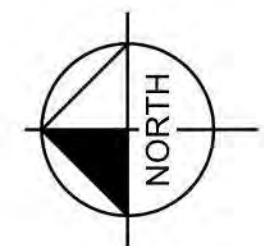
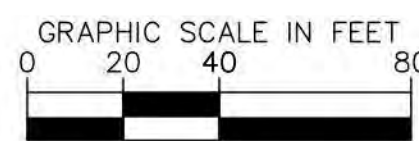
LEGEND

- LOC LIMITS OF CONSTRUCTION
- FLOW ARROW
- CF CONSTRUCTION FENCE
- SF SILT FENCE
- DD DIVERSION DITCH
- IP INLET PROTECTION
- OP OUTLET PROTECTION
- CS CURB SOCK
- CD CHECK DAM
- SCL SEDIMENT CONTROL LOG
- DW DEWATERING
- RRC REINFORCED CONCRETE BERM FOR CULVERT PROTECTION
- SS STREET SWEEPING
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- VTC VEHICLE TRACKING CONTROL
- SSA STABILIZED STAGING AREA
- CWA CONCRETE WASHOUT AREA
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- SM SEEDING AND MULCHING
- ECB EROSION CONTROL BLANKET (WOVEN 400-GRAM COIR MATTING, STRAW SPREAD UNDERNEATH)
- TS TRAIL/SIDEWALK CLOSED SIGN
- PROPOSED 1-FT SOIL LIFTS (SEE DETAIL)

SEMSWA ACCEPTANCE BLOCK

ENGINEERING & CONSTRUCTION DIVISION

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NO.	REVISION	BY	DATE	APPR.

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DRAWN BY: CKP
CHECKED BY: TOS
DATE: 6/15/2026

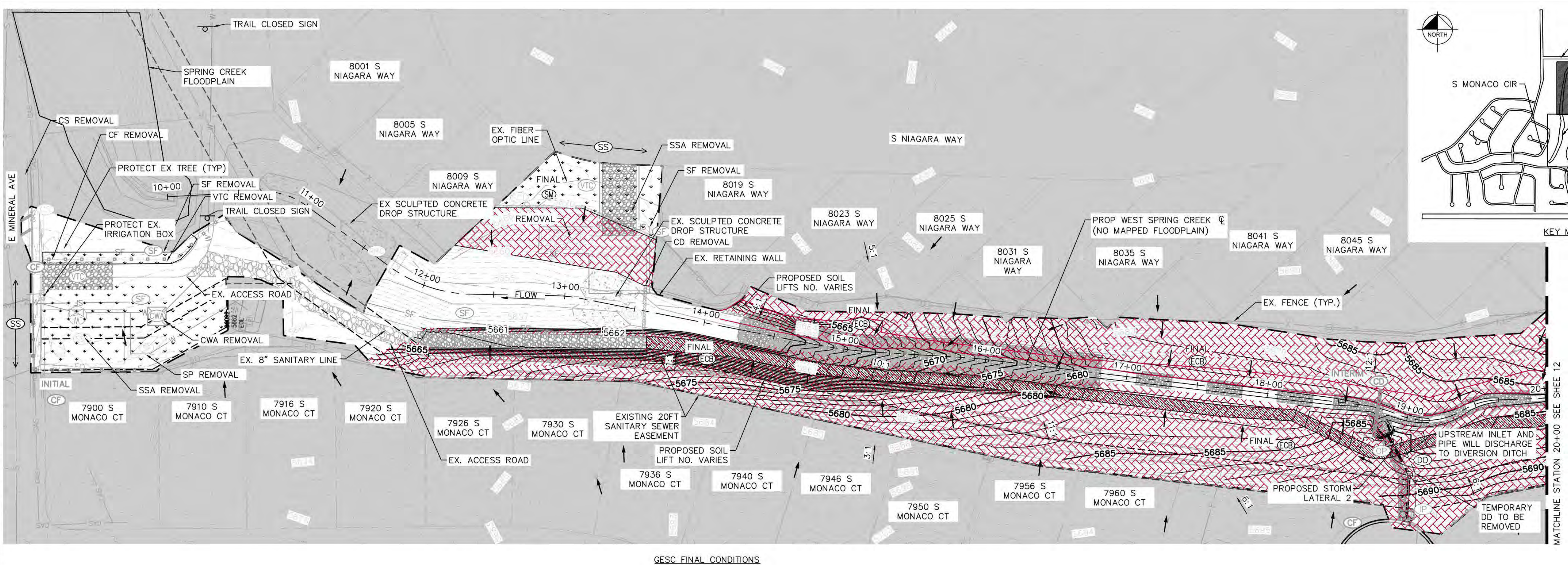
WEST SPRING CREEK DOWNSTREAM E PHILLIPS AVENUE CHANNEL IMPROVEMENTS
100% CONSTRUCTION DRAWINGS
GESC PLANS - INTERIM CONDITIONS

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PROJECT NO.
196159002

SHEET
10 OF 19

K:\NEW\WATERRESOURCES\196159002_WEST SPRING CREEK_60% DESIGN\ADDITIONAL SHEETS\04% DESIGN\196159002_GESC.DWG
THIS DOCUMENT, TOGETHER WITH THE CONCEPTS AND DESIGNS PRESENTED HEREIN, IS AN INSTRUMENT OF SERVICE. IT IS INTENDED ONLY FOR THE SPECIFIED PURPOSE AND CLIENT FOR WHICH IT WAS PREPARED. REUSE OF AND IMPROPER RELIANCE ON THIS DOCUMENT WITHOUT WRITTEN AUTHORIZATION AND ADAPTATION BY KIMLEY-HORN AND ASSOCIATES, INC. SHALL BE WITHOUT LIABILITY TO KIMLEY-HORN AND ASSOCIATES, INC.



- FINAL GESC NOTES:**
- A. SEE STANDARD NOTES AND DETAILS ON SHEET 16 FOR COMPLETE LIST OF GENERAL NOTES.
- ADDITIONAL FINAL GESC NOTES**
- B. APPROPRIATE CONTROL MEASURES MUST BE IMPLEMENTED PRIOR TO THE START OF LAND DISTURBANCE ACTIVITY, MUST CONTROL POTENTIAL POLLUTANTS DURING EACH PHASE OF CONSTRUCTION, AND MUST BE CONTINUED THROUGH FINAL STABILIZATION. APPROPRIATE STRUCTURAL AND NON-STRUCTURAL CONTROL MEASURES MUST BE MAINTAINED IN OPERATIONAL CONDITION.
- C. SCREENED/SHADED BACK CONTROL MEASURES WERE INSTALLED IN THE INITIAL STAGE AND SHALL BE LEFT IN PLACE IN THE INTERIM STAGE UNLESS OTHERWISE NOTED.
- D. CONTROL MEASURES, INCLUDING SEEDING AND MULCHING OF DISTURBED AREAS, MUST BE COMPLETED WITHIN 14 DAYS, IF THE AREA WILL REMAIN UNDISTURBED FOR A PERIOD GREATER THAN 30 DAYS.
- E. ALL PROPOSED SLOPES ON THIS PLAN HAVE A MAXIMUM SLOPE OF 3:1 EXCEPT FOR OUTSIDE BENDS OF POOLS.
- F. STOCKPILE AREAS MUST HAVE A PERIMETER CONTROL MEASURE (CM) I.E. SILT FENCE (SF) OR SEDIMENT CONTROL LOG (SCL).
- G. PRIOR TO THE IMPORT/EXPORT OF MATERIAL THE CONTRACTOR SHALL COORDINATE THE HAUL ROUTE, NUMBER OF TRUCKS, AND THE NUMBER OF TRIPS ETC. WITH THE SEMSWA STORMWATER INSPECTOR. THE BORROW/FILL SITE IF WITHIN SEMSWA BOUNDARIES, MAY REQUIRE ADDITIONAL APPROVED GESC PERMITS, PLANS, AND A REPORT.
- H. SEE CONSTRUCTION PLANS FOR DETAILS OF PERMANENT DRAINAGE FACILITIES SUCH AS DETENTION FACILITIES, WATER QUALITY FACILITIES, CULVERTS, STORM DRAINS, AND INLET AND OUTLET PROTECTION.
- I. ACCEPTANCE OF THE POST-CONSTRUCTION PERMANENT CONTROL MEASURES WILL NOT OCCUR UNTIL ALL TRIBUTARY AREAS TO THE PERMANENT CONTROL MEASURES ARE FINAL.
- J. STREET SWEEPING (SS) OPERATIONS SHALL UTILIZE A VACUUM-TYPE STREET SWEEPER, A BRUSH STYLE STREET SWEEPER, OR MANUALLY USING SHOVELS AND BROOMS. PAVEMENT SHALL NOT BE WASHED WITH WATER AT ANY TIME UNLESS ALL WATER IS CONTAINED AND COLLECTED AND IS NOT ALLOWED TO DRAIN INTO EXISTING STORM CONVEYANCES, ON OR OFF THE SITE.
- K. LOCATE CONCRETE WASHOUT AREA (CWA) 50' MINIMUM AWAY FROM ALL STORM CONVEYANCES.
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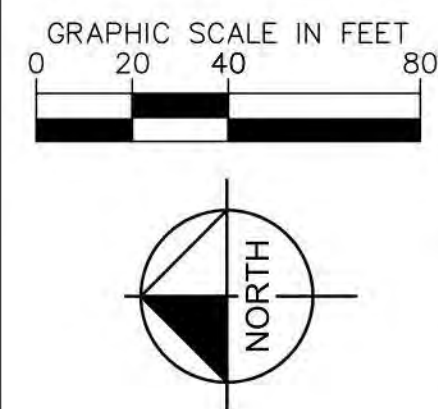
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WEST SPRING CREEK DOWNSTREAM E PHILLIPS
AVENUE CHANNEL IMPROVEMENTS
100% CONSTRUCTION DRAWINGS
GESC PLANS - FINAL CONDITIONS

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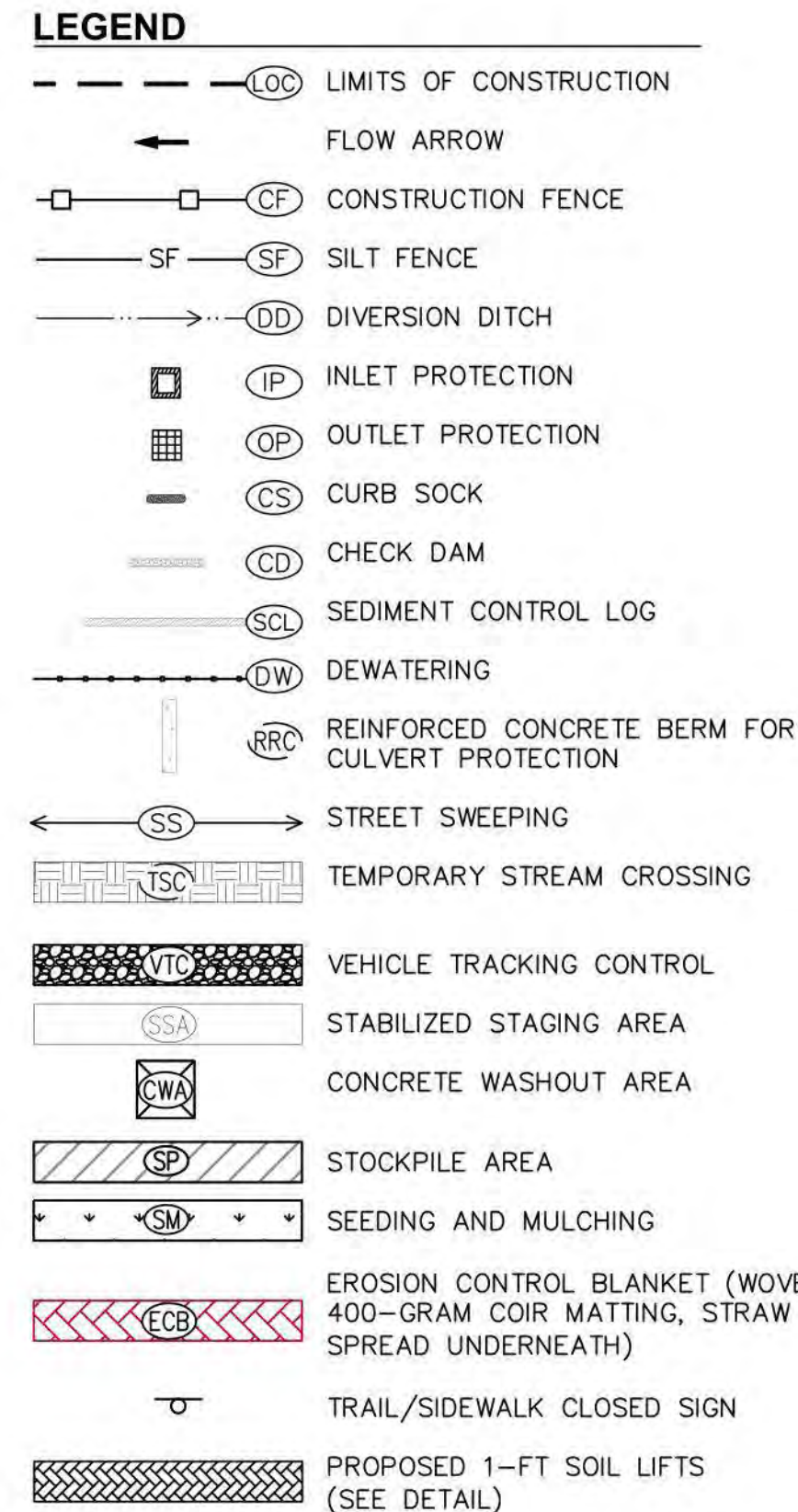
MATCHLINE STATION 20+00 SEE SHEET 11



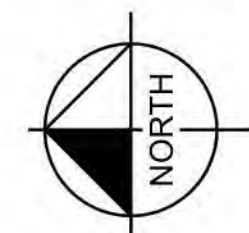
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¹NWPL = National Wetland Plant List
²LBS PLS = Pounds of Pure Live Seed, calculated as *Pounds of Seed* x (*Purity* x *Germination Rate*)
³LBS PLS/acre = Specified for broadcast seeding. Half this rate if drill seeding.

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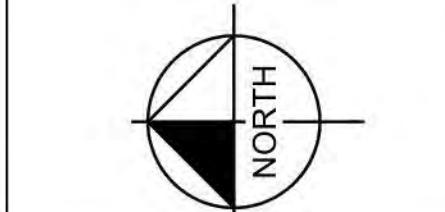
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CKP
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5/2026

100% CONSTRUCTION DRAWINGS
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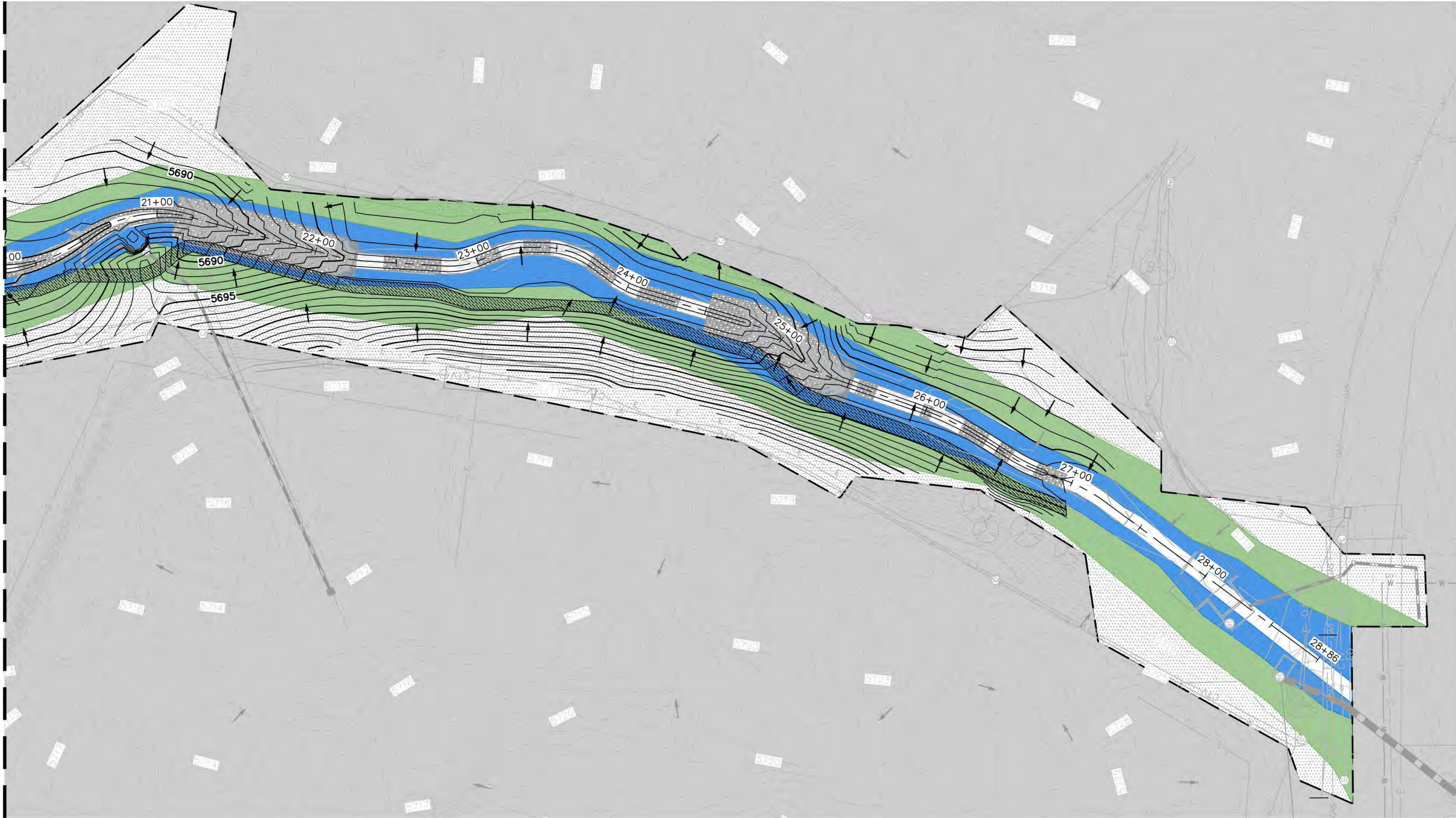
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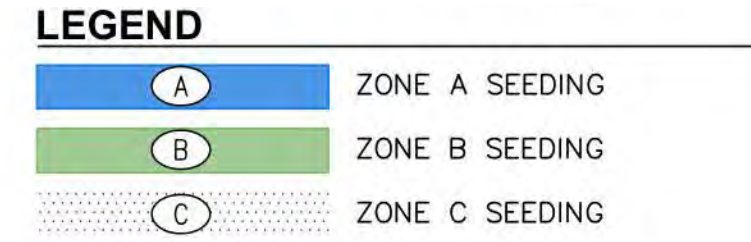
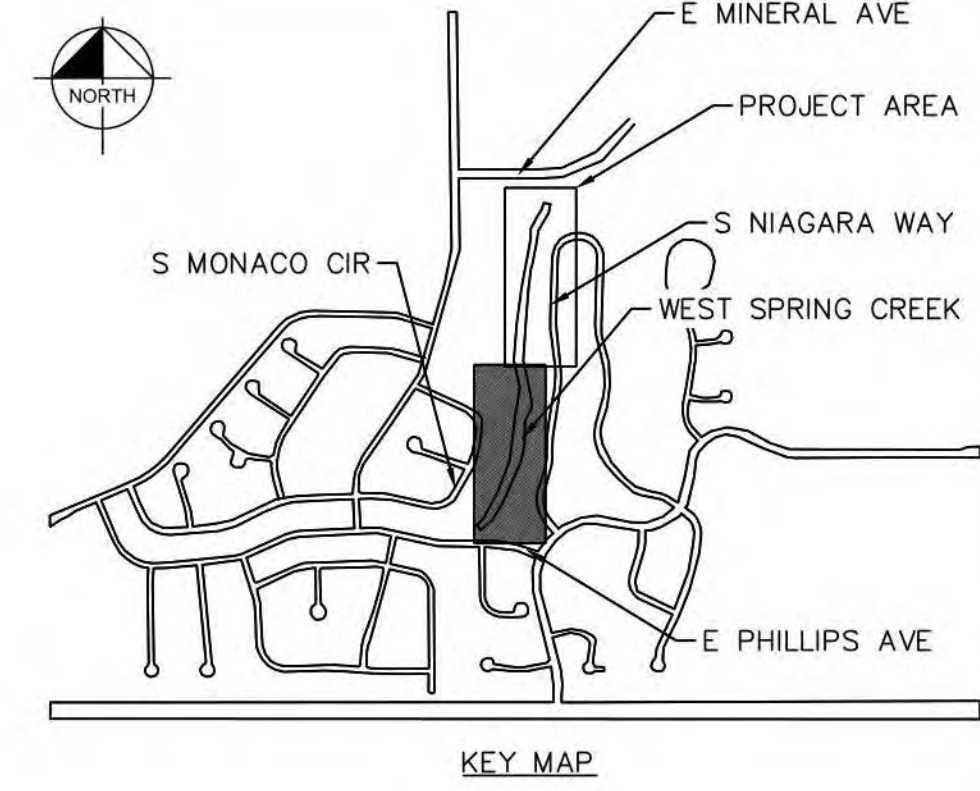
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K:\NEW_WATERRESOURCES\196159002_WEST SPRING CREEK_60% DESIGN\CADD\PLANSHEET\196159002_SEEDING.DWG
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MATCHLINE STATION 20+00 SEE SHEET 14



GESC FINAL CONDITIONS



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GRAPHIC SCALE IN FEET

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WEST SPRING CREEK DOWNSTREAM E PHILLIPS
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