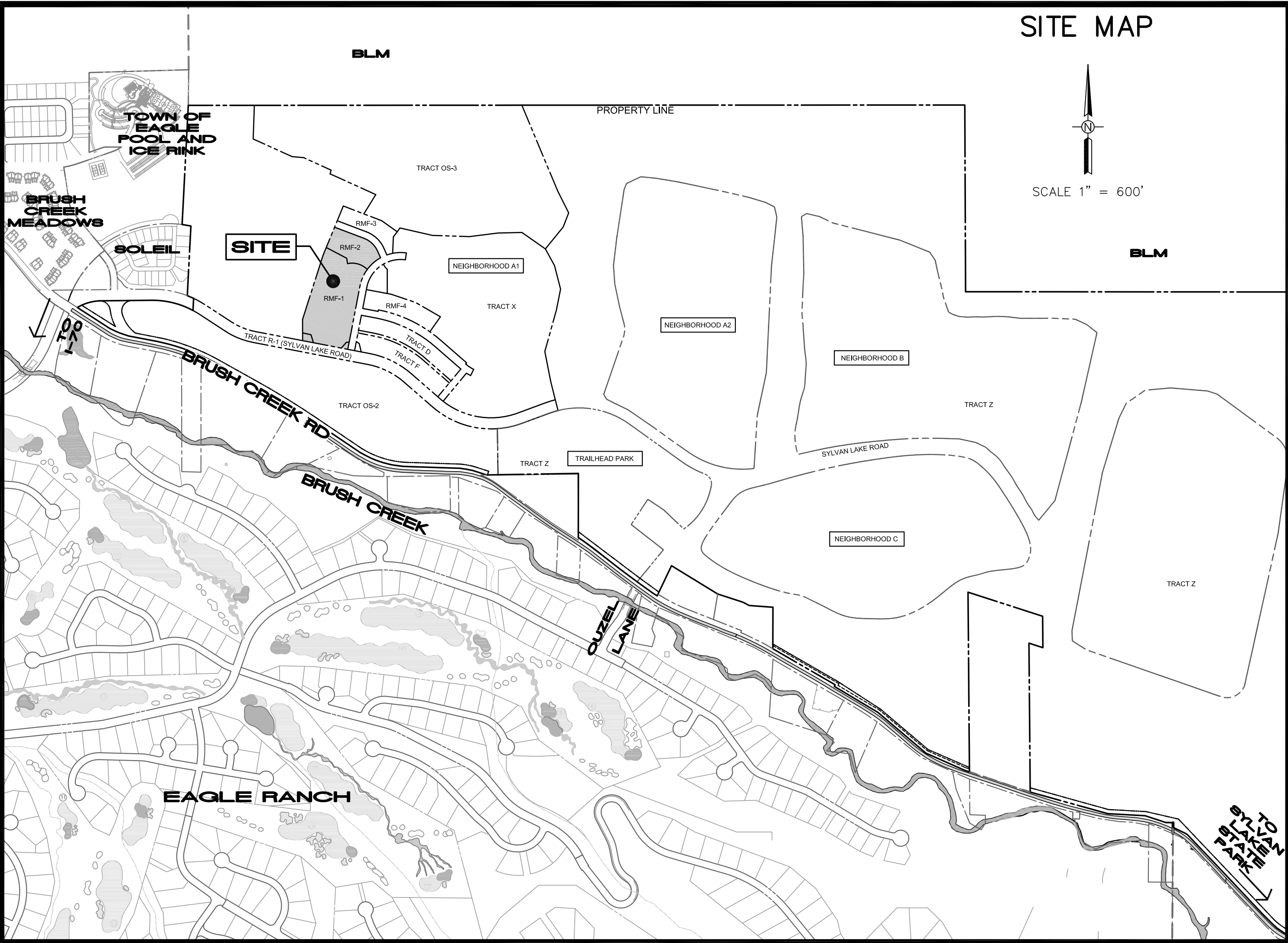


HAYMEADOW  
PARCELS RMF-1 AND RMF-2  
DEVELOPMENT PERMIT  
EAGLE, COLORADO  
JANUARY 2022

GENERAL NOTES

- Alpine Engineering, Inc., assumes no responsibility for utility locations. It is the contractor's responsibility to field verify the location of all utilities prior to commencement of any construction.
- The Contractor shall take all appropriate precautions to significantly reduce any potential pollution caused by his activities, including vehicle fueling, storage of fertilizers or chemicals, etc. The contractor shall have identified procedures for handling potential pollutants and have identified spill prevention and response procedures prior to any activities at the project site, and shall comply with the conditions and requirements of the capte stormwater management permit and plan.
- The Contractor shall minimize all off site soil tracking. All soil tracked off site shall be immediately cleaned up to the satisfaction of the owner & town of eagle. Install stabilized construction entrance prior to commencement of any construction activities.
- All excavating for roadway, retaining walls, drainage facilities and other trenches shall meet asha requirements.
- The Contractor shall keep a set of contract drawings marked up to fully indicate asbuilt conditions. The drawings shall be provided to alpine engineering, inc. Upon completion of this work. Asbuilt information needs to be GPS and submitted to the Town in Autocad and GIS formats.
- Safety is the responsibility of the contractor. The engineer is not responsible for safety in, on or about the project site, nor for compliance by the appropriate party with any regulations relating thereto.
- Observations of the work in progress and on-site visits are not to be construed as a guarantee or warranty by the engineer of the contractor's contractual obligations.
- If any groundwater is encountered the contractor shall contact Alpine Engineering, Inc. And H.P. Kumar immediately.
- The Contractor shall maintain traffic at all times to the satisfaction of the owner and the Town of Eagle. The contractor shall minimize traffic disruptions and provide adequate safety precautions to ensure public safety. The Contractor must submit traffic control plan to Town of Eagle and receive approval prior to any construction.
- The Contractor shall protect and preserve all trees, bushes, shrubs, and ground cover in a manner acceptable to the owner, and as defined within the pertinent permits.
- The Contractor shall maintain existing drainage channels, culverts, and appurtenances during construction as necessary to protect roads and property.
- The Contractor shall grade in order to provide positive drainage.
- Retaining walls greater than 4 feet in height shall require a structural design by a structural engineer.
- The Contractor shall adhere to all the terms, conditions & requirements contained within the U.S. Army Corps of Engineers 404 wetlands permit.
- Per the Final Plat prepared by Archibque Land Consulting, the ASSUMED BASIS OF BEARING: N89°57'47"E along a portion of the North of subject property between found U.S.G.L.O. brass cop monuments properly marked.
- Basis of elevation: NAVD 29 on U.S.G.L.O. benchmark D-280.

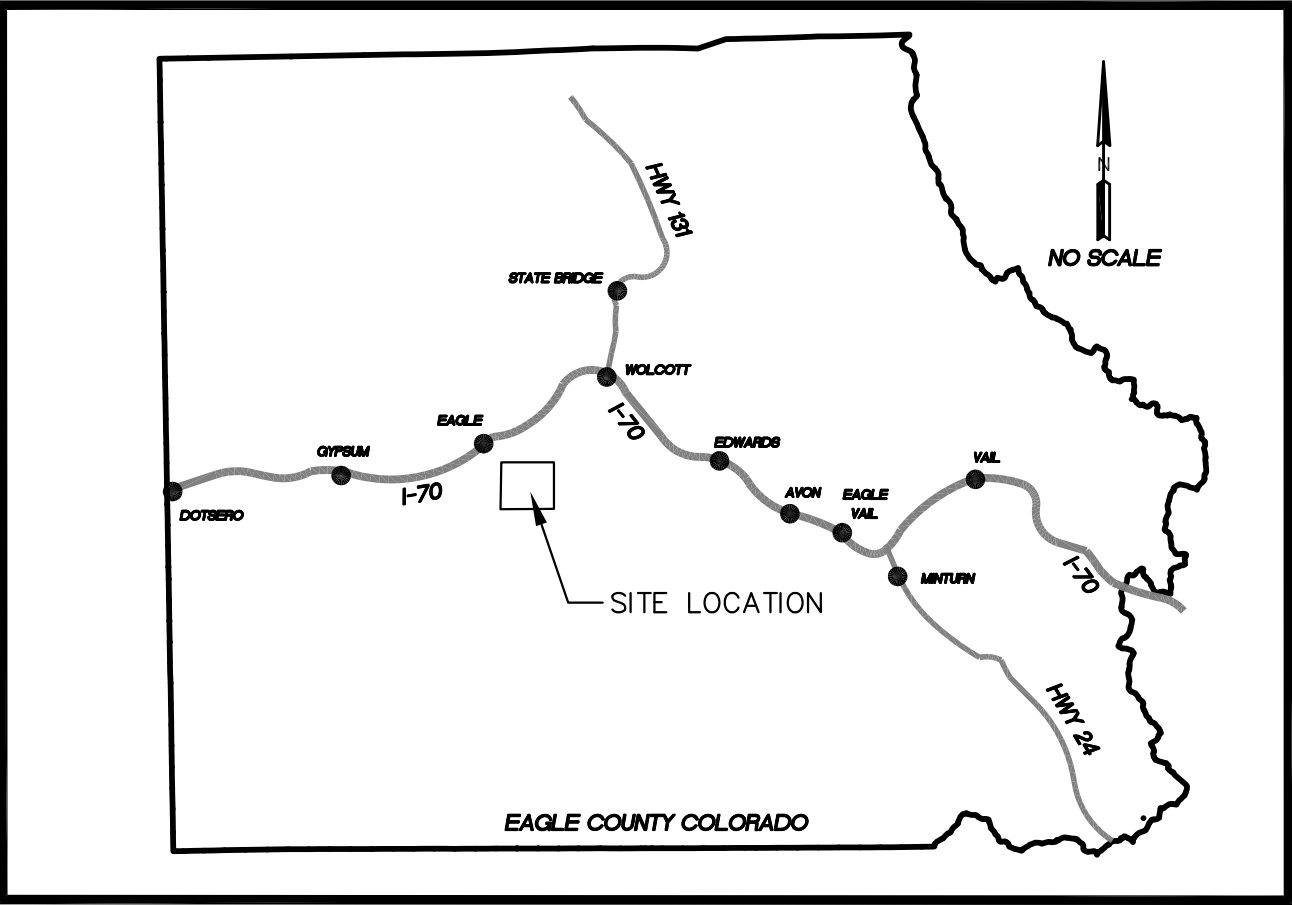


SHEET INDEX

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CIVIL NOTES	C1.02
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IRRIGATION PLAN	IR-1-IR-7
ELECTRICAL PLANS	E0.01

PROJECT CONTACTS

DEVELOPER, ABRIKA PROPERTIES, LLC	(970) 328-9519
OWNER'S REPRESENTATIVE: SCOTT SCHLOSSER (scottss@vail.net)	(970) 328-9519
PLANNER, PYLMAN AND ASSOCIATES: RICK PYLMAN (Rick@pylan.com)	(970) 926-6065
CIVIL ENGINEER, ALPINE ENGINEERING: MATT WADEY (wadey@alpinecivil.com)	(970) 926-3373
LANDSCAPE ARCHITECT, DHM DESIGN: LAURA KIRK (lkirk@dhdmsign.com)	(970) 963-6520
ARCHITECT, NEO STUDIO: MICHAEL NODA (michael@neostudioarch.com)	(303) 758-3800
SURVEYING, ALC: TED ARCHIBEQUE (ted@prolandsurvey.com)	(970) 328-6020
TOWN OF EAGLE, ENGINEERING: DENNIS WIKE (dennis.wike@townofeagle.org)	(970) 445-0847
TOWN OF EAGLE, PUBLIC WORKS: TOM GOSIOROWSKI (tom.gosiorowski@townofeagle.org)	(970) 328-6547
COMCAST (PHONE/CATV): Greg Aylesworth (Gregory_Aylesworth@comcast.com)	(720) 557-0060
BLACK HILLS ENERGY: JASON COX (jason.cox@blackhillscorp.com)	(970) 309-2432
HOLY CROSS ENERGY (ELECTRIC): KEITH HERNANDEZ (khermandez@holycross.com)	(970) 947-5439
CENTURY LINK (PHONE/CATV): JASON SHARPE (jason.sharpe@centurylink.com)	(970) 309-2973
GEOTECHNICAL ENGINEER, CESARE, INC: IAN CESARE (icesare@cesareinc.com)	(303) 220-0300



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April 20, 2022  
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HAYMEADOW FILING 1  
RMF-1 & RMF-2  
CIVIL COVER SHEET

DESIGNED	GLB, RIF	DATE	REVISIONS	NO.	DATE	BY
DRAWN	GLB, RIF	01/06/2022	MAJOR DEVELOPMENT PERMIT	1	01/06/2022	GLB
CHECKED	MCW	04/24/2022	MDP-RESPONSE TO COMMENTS	2	04/24/2022	GLB
JOB NO.	53480.5					
DATE	07/24/2021					

SHEET  
C1.01

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WATER SYSTEM NOTES:

- 1. Water construction shall conform to the latest standards and specifications per the Town of Eagle Public Works Manual.
- 2. All new underground facilities must be electronically locatable per SB 18–167.

SANITARY SEWER SYSTEM NOTES:

- 1. Sanitary Sewer construction shall conform to the latest standards and specifications per the Town of Eagle Public Works Manual.
- 2. All new underground facilities must be electronically locatable per SB18–167.

CONSTRUCTION NOTES

- 1. Town of Eagle (TOE) Fire Department (FD) Knox Lock to be placed at each entrance for after hours FD access.
- 2. Temporary entrances to have proper tracking pad and erosion control devices. Install signage accordingly.
- 3. Temporary toilets and trash to be added and subtracted throughout. Placement may be adjacent to current activities within the area of disturbance in order to ensure best practices.
- 4. Contractor to use water truck to reduce dust as needed.
- 5. Contractor to use future roads and recreation paths to best of their ability to reduce the need for additional temporary haul roads.
- 6. Contractor to operate within TOE standard construction hours and best practices. Additional working days, such as Sunday, contractor shall contact TOE for extended hours. Emergencies excluded such as broken utility pipe.
- 7. Contractor to preserve existing survey monumentation where possible.

DRAINAGE NOTES:

- 1. All storm drains and culverts shall be constructed in accordance with the Technical Specifications.
- 2. Types of structures refer to the Colorado Department of Transportation M and S Standards, CDOT Standard Specifications, or are included on the details sheets.
- 3. Alpine Engineering, Inc., assumes no responsibility for utility locations. It is the Contractor's responsibility to field verify the location of all utilities prior to commencement of any construction.
- 4. All drain pipes shall be installed with the required bedding.
- 5. Elevations shown are at pipe invert unless otherwise shown.
- 6. All standard storm drain structures are subject to modification by the Engineer to meet field requirements.
- 7. Contractor to provide Culvert Outlet Protection (see details) at storm drain and culvert outfalls unless otherwise noted.
- 8. All storm drain and culvert outfalls to have End Sections.
- 9. All Reinforced Concrete Pipe shall be Class 3 unless noted otherwise. All Reinforced Concrete Pipe Joints (RCP) shall utilize Type R–4 Rubber Gasket Joints which shall be in accordance with AASHTO M198 and ASTM C443 (standard specifications for joints for circular concrete pipe using rubber gaskets).
- 10. Pipe lengths indicated are slope lengths measured along the centerline of pipe from inside face of box (or manhole) to inside face of box (or manhole).
- 11. Pipe lengths for last run at outfalls do not include the Flared End Section.
- 12. Storm drainage facilities need to be periodically inspected and maintained in order to assure that they are functioning properly.

BLACK HILLS ENERGY SERVICE LINE EXCAVATION

All sites will be required to provide sand or road base with no frost for bedding and shading of the installed gas service line during the winter months. Contact your local Utility Construction Specialist for further information.

Providing that the main gas line is on your side of the street, and not in the street, you need to have a contractor dig a trench meeting the following requirements:

- 1. 4'x4' bell hole must be dug so that 4' of the main is exposed lengthwise, with a minimum of 1' clearance under the main and 1' behind the main, in order for the fusion tools to be used.
- 2. In the event there is a stub, a 4'x4' bell hole must be dug around the stub.
- 3. In the event the gas main is steel, a 6' square bell hole exposing the main must be dug, with a clearance of 16" under the main in order for welding equipment to be used.
- 4. Trench to be 6" wide and a minimum of 24" deep (30" is preferred).
- 5. Trenches must be dug to the foundation and the foundation completely exposed at the location of the service riser.
- 6. A minimum clearance of 3' is required between the gas line and any other utility or underground structures.
- 7. Service lines must be perpendicular from the main to the house. They may not cross adjoining properties.
- 8. They may not cross driveways or be trenched under a proposed driveway; this can be handled on a case by case basis for custom applications.

HOLY CROSS ENERGY NOTES:

TRENCH AND CONDUIT

- 1. The developer or contractor will contact Holy Cross Energy before conduit and vault installation begins to schedule a pre–construction meeting with the project inspector.
- 2. Changes in power facility construction from that shown on the project plans will not be made without advance approval from the Holy Cross Energy inspector.
- 3. Holy Cross Energy material shall not be moved from the project to which it was assigned without the advance approval of the inspector and the completion of necessary paperwork. Holy Cross Energy material shall not be installed for any use other than construction of power facilities.
- 4. All roads will be built to subgrade and all drainages will be constructed to grade before any vaults or conduits are installed.
- 5. All trench will be excavated deep enough to ensure that the top of installed power facilities will be 48" below final grade. Special care must be taken to insure that the top of conduits will be 48" below the bottom of drainage ditches and all other low areas.
- 6. Trench will be as straight as possible between vaults and shall have a smooth bottom free from low and high spots. Six inches of road base will be placed the entire length of the trench and well compacted prior to conduit installation. When placed in the trench, the conduit shall be in continuous contact with the compacted road base with no hold down weight added. Twelve inches of road base, as measured from the top of the conduit, will be placed on the conduit and well compacted prior to returning any native backfill to the trench. Large rocks shall not be placed directly on the road base layer. Care must be taken to avoid conduit damage during backfill and compaction; conduits found to be unusable at the time of power cable installation will be repaired by the developer or contractor before power can be made available.
- 7. Power facilities to be placed parallel to deeper utilities will have a horizontal separation from the deeper utility greater than the depth of such utility below final grade less four feet (see attached drawing). When crossing a deeper utility is unavoidable, the crossing will be made as close to perpendicular as possible.
- 8. Power line conduits will be installed with a minimum separation of 12" from all other new or existing underground utility lines. Wherever possible, this separation will be horizontal. The power line separation from plastic gas lines will be greater than this minimum wherever practicable. Power line conduits will be located deeper in the trench than the facilities of all other utilities unless the inspector grants a waiver prior to the start of construction.
- 9. Backfill and compaction above the road base layer will be as required by the governmental entity or other party having jurisdiction. Conduit bell ends will not be allowed in the vaults. Holy Cross Energy will supply factory couplers, 90°, 45°, and 22–1/2° elbows as needed for job. Non–factory bends and heated bends will not be allowed. No more than two 90° elbows will be allowed in a conduit run of 500 feet. The conduit shall run straight between factory bends. Allowed bends must be further than 5' from a vault. Factory elbows supplied must be used intact; they cannot be cut to make a lesser bend. Bells will not be cut off conduit sticks to use as couplers. Holy Cross Energy elbows and pipe will be used only for the power facility installation.
- 10. The conduit will not be backfilled without the Holy Cross Energy inspector seeing all joints unless the inspector gives prior permission. All joints shall be completely seated to the line marked on the male end of the conduit after sufficient glue is applied to both conduits being joined, even in areas where the trench cannot be excavated completely straight. Glue in the joint shall be allowed to completely dry prior to any stress being applied to the conduit on either side of the joint. Trench backfilled without the inspector viewing each joint or giving prior permission to cover the conduit will be re–excavated to expose the conduit, or the contractor will put a camera through each conduit in the span which was prematurely backfilled to The camera verification will be witnessed by the Holy Cross Energy inspector. Verify the joint seating and conduit condition.
- 11. Individual conduits shall enter each vault at a consistent location. There is to be no crossing of conduits in the trench.
- 12. Both ends of a conduit run shall be securely plugged at the time of installation with Holy Cross Energy supplied material. Conduit ending outside a vault shall be marked with a 4" x 4" post or other approved method.
- 13. Red trench marking tape will be supplied by Holy Cross Energy and shall be installed 18" to 24" above the conduit during backfill.
- 14. At completion of the job, the inspector will do a final inspection. If the job does not meet with Holy Cross Energy's specifications or the approval of inspector, service will not be provided until specifications are met.

II. VAULTS.

- 1. Vaults shall be installed as follows:
  - A. Splice vaults shall be installed with the manhole lid grade being slightly above final grade of the surrounding area, except when the vault is in a roadway, the manhole lid grade shall match the grade of the finished roadway surface.
  - B. Splice vaults located in roads or other sloped areas will be installed so that the concrete base and lid are at the slope of the surrounding area. Vaults placed in roads will not be located in areas normally traversed by vehicle wheels. The inspector must approve all vaults installed at a slope.
  - C. Transformer vaults and switchgear vaults will be installed with the bottom of the lid at final grade. The lid will be level.
  - D. Where transformer and switchgear vaults are set into hillsides or sloped cuts, the downhill side of the vault will be graded according to C above. The slope behind the vault will be laid back sufficiently to prohibit soil or rocks from sloughing onto the vault; if the slope cannot be laid back for enough, a retaining wall shall be constructed behind the vault at the direction of the inspector.
  - E. All vault pads will be placed on the vaults at the time of vault installation to protect the public and wildlife, unless otherwise instructed by the inspector. The holes through transformer and switchgear pads will be covered at the time of vault installation with concrete pieces supplied by Holy Cross Energy, unless otherwise instructed by the inspector.
  - F. Large vault pieces shall be jointed with a tar type sealant provided by Holy Cross Energy, with the exception of the vault lid, at the direction of the inspector.
- 2. Holes knocked in vaults for conduit installation shall be as small as possible and shall be grouted closed on the outside of the vault prior to backfill.
- 3. Conduit shall enter vaults perpendicular to the vault wall, at least 2" from any adjacent walls and at least 2" above the vault base. There shall be a minimum separation of 1" between conduits. See vault drawings.
- 4. Conduit will extend 4" into the vault (measured from the inside wall of the vault) after backfilling is complete.
- 5. Ground rods in vaults for underground cable installation shall be laid in the trench with the conduits. The end of the rod shall extend approximately 6" into the vault through the conduit knockout. The rod will have a 45° bend located approximately 3" from the vault end, with the bend going away from the conduits. The bent end of the rod must be far enough from the vault wall to allow crimping the grounding conductor onto the rod. The rod must be at least 2" from the conduit at its entrance into the vault. See vault drawings.
- 6. After the vault has been set, pipes extended in and grouted and the ground rod is in place, vaults shall be swept out removing all dirt or rocks. Cleanup shall be completed to the satisfaction of the inspector prior to cable installation being scheduled.
- 7. Pedestals for other utilities shall not be located closer than 10' to a vault on sides where transformers or switchgear will have access doors. Pedestals shall not be located closer than 5' to a vault on sides where the pad–mounted equipment will not have access doors.

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HAYMEADOW FILING 1  
RMF–1 & RMF–2  
CIVIL NOTES

ALPINE  
ENGINEERING INC.  
34510 HWY 6 / UNIT A9 PO BOX 97  
EDWARDS CO 81632 / 970.926.3373  
WWW.ALPINECIVIL.COM

DESIGNED	GLB, RIF	BY	REVISIONS	DATE	NO.
DRAWN	GLB, RIF	GLB	MAJOR DEVELOPMENT PERMIT	01/06/2022	1
CHECKED	MCW	GLB	MDP–RESPONSE TO COMMENTS	04/24/2022	2
JOB NO.	53480.5				
DATE	07/24/2021				

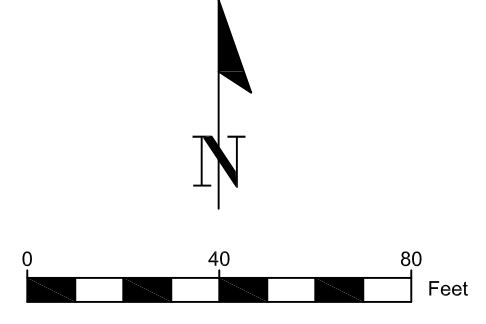
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LEGEND	
	SNOW STORAGE
	ACCESSIBLE ROUTE
	PROPOSED ASPHALT
	PROPOSED CONCRETE

LAND USE SUMMARY			
TRACT	PURPOSE	ACRES	PERCENT
RMF-1	RESIDENTIAL	5.00	79%
RMF-2	RESIDENTIAL	1.33	21%
TOTAL		6.33	100%

RMF-1:  
6 CONDOMINIUM BUILDINGS (A-C & E-G) WITH  
3 1-BEDROOM UNITS AND 8 2-BEDROOM UNITS  
CONDOMINIUM BUILDING D HAS 10 2-BEDROOM UNITS  
76 UNITS TOTAL

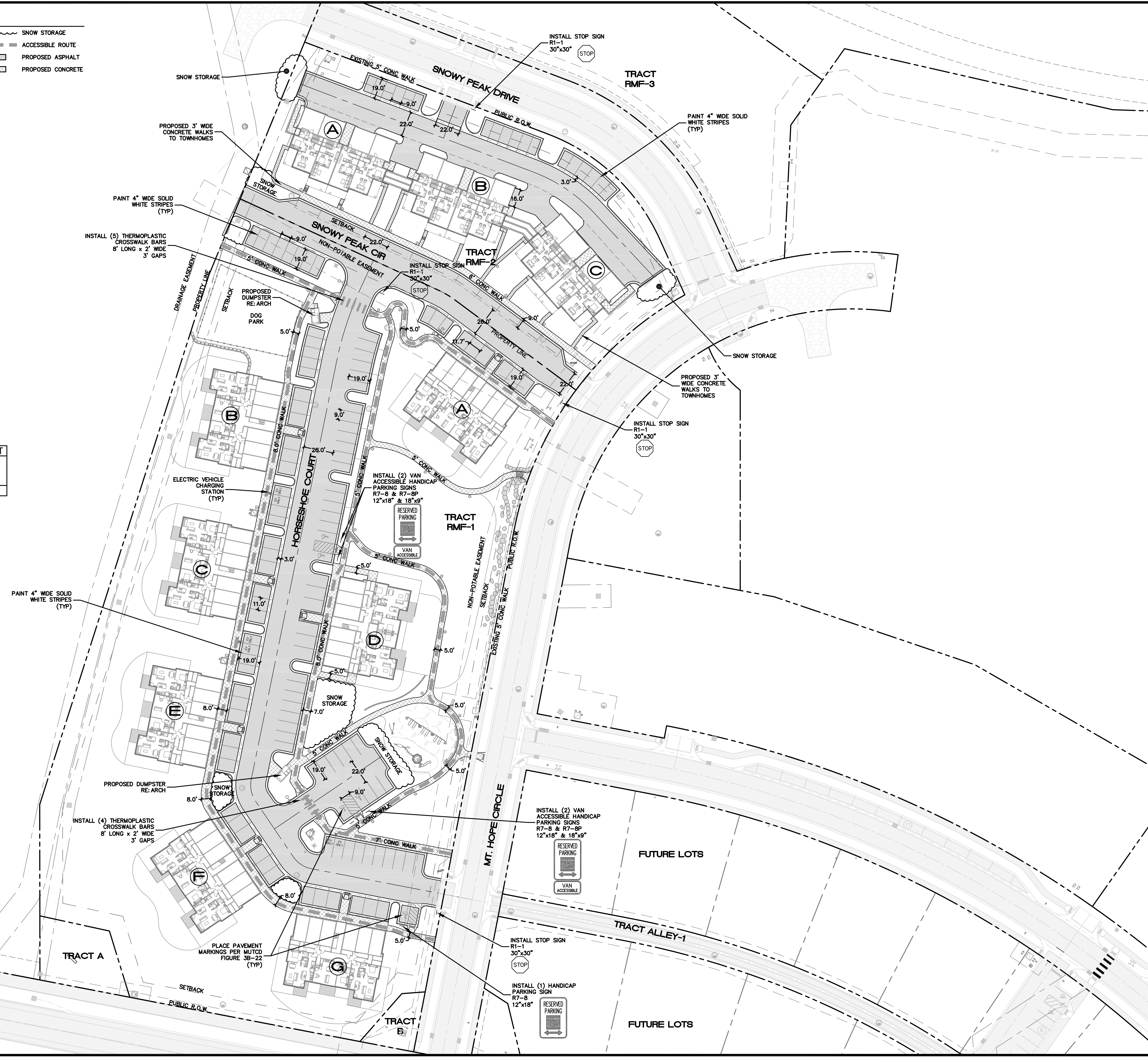
RMF-2:  
3 TOWNHOME BUILDINGS  
4 3-BEDROOM UNITS/BUILDING  
12 UNITS TOTAL

IMPERVIOUS AREA = 85,564 SF = 1.96 ACRES  
BUILDING COVERAGE = 46,235 SF = 1.06 ACRES

PARKING REQUIREMENTS		
UNIT TYPE	UNIT COUNT	PARKING COUNT
1 BR	18	27
2 BR	58	116
3 BR	12	30
TOTAL	88	173

PARKING TABLE (RMF-1)	
SURFACE (9'x19')	= 87
SURFACE (9'x22')	= 12
SURFACE (ADA)	= 5
SURFACE (GARAGE)	= 42
GARAGE RMF-1	= 42
GARAGE RMF-2	= 24
TOTAL	= 212

ELECTRIC VEHICLE CHARGING  
RMF-1: 7 SURFACE (1/BUILDING)  
42 GARAGE



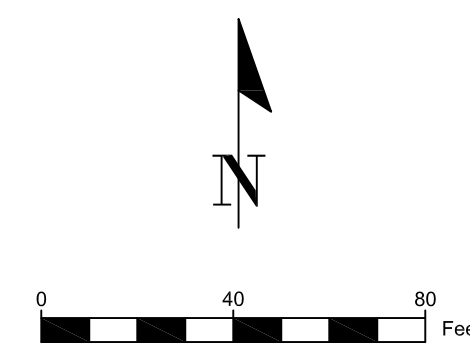
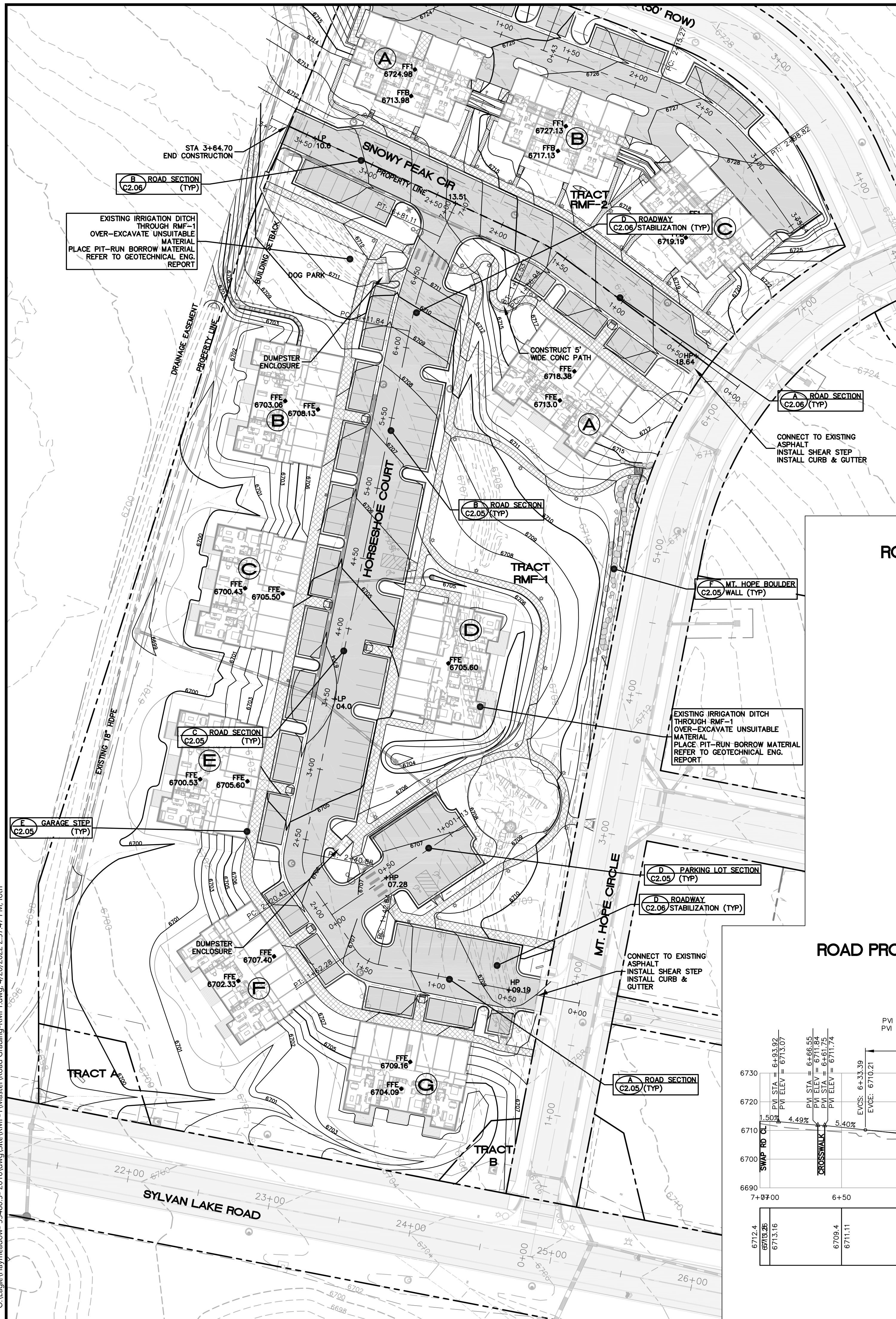
# HAYMEADOW FILING 1

## RMF-1 & RMF-2

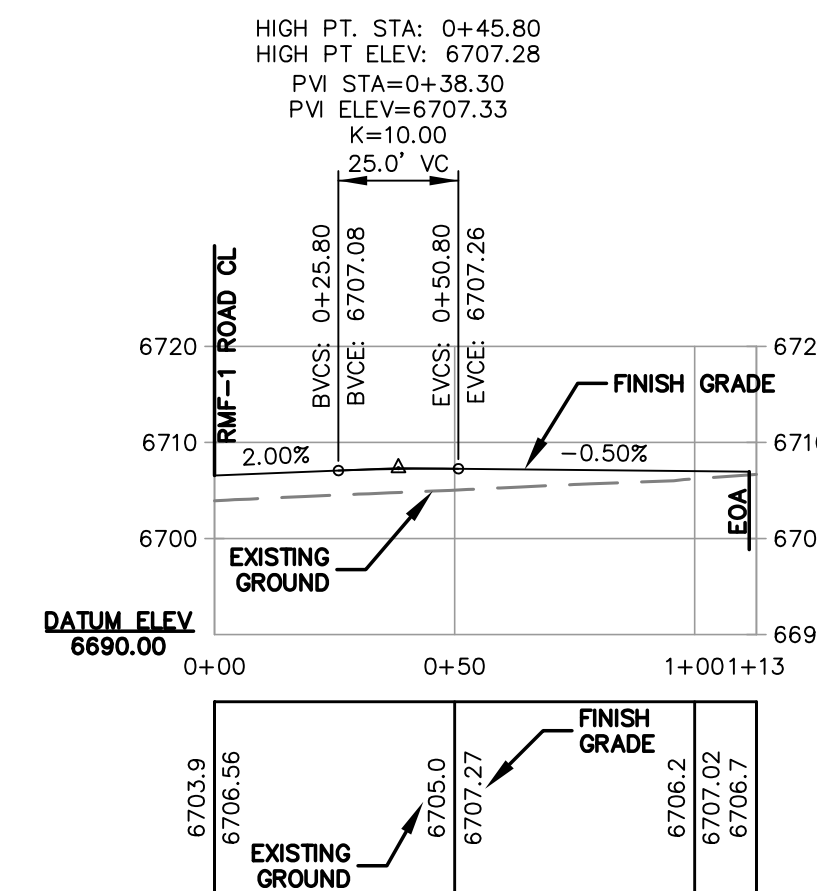
### OVERALL SITE PLAN

DESIGNED		BY	
GLB, RIF	GLB	GLB	GLB
DRAWN		REVISIONS	
GLB, RIF	GLB	NO.	DATE
CHECKED	MCW	1	01/06/2022
JOB NO.	53480.5	2	04/24/2022
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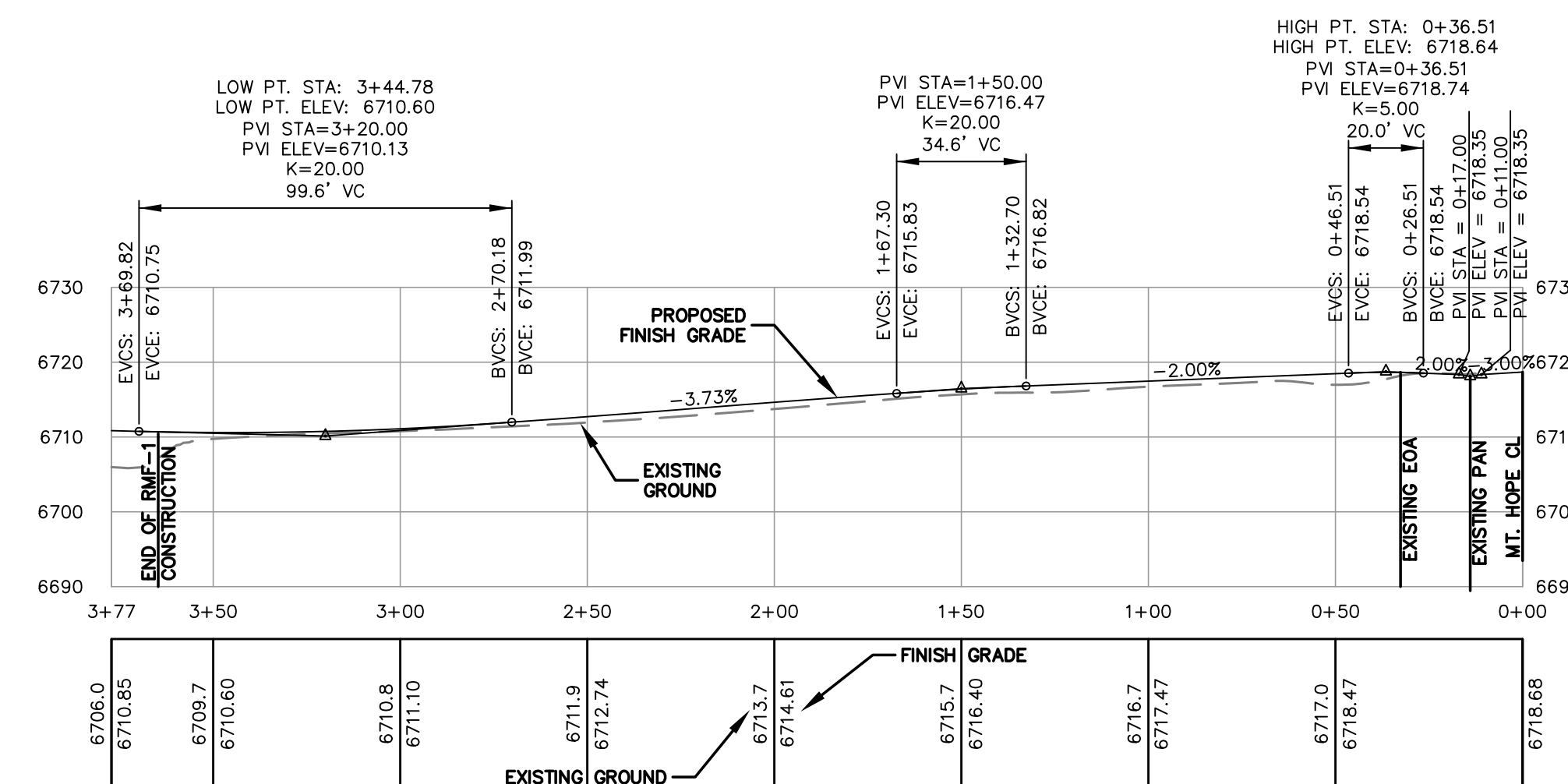




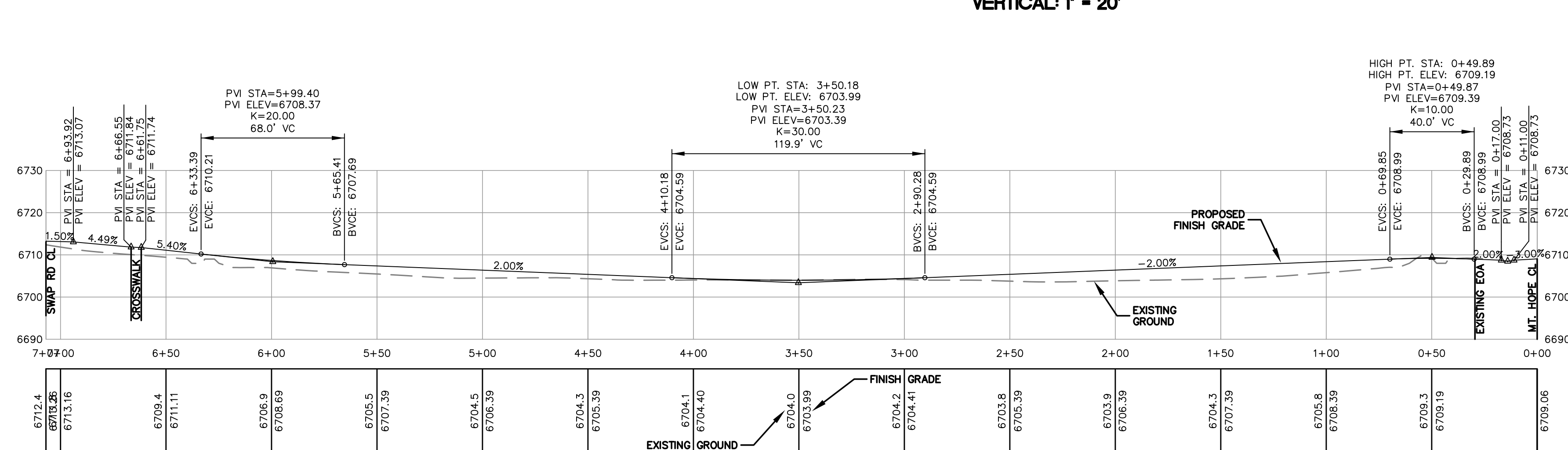
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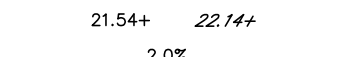



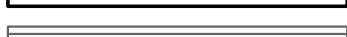


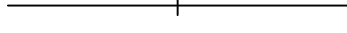


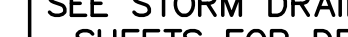
**SCALE**  
**HORIZONTAL: 1" = 40'**  
**VERTICAL: 1" = 20'**



**SCALE**  
**HORIZONTAL: 1" = 40'**  
**VERTICAL: 1" = 20'**



# LEGEND


	PROPOSED CONTOUR (5' INTERVAL)
	PROPOSED CONTOUR (1' INTERVAL)
	EXISTING CONTOUR (10' INTERVAL)
	EXISTING CONTOUR (2' INTERVAL)
	PROPOSED/EXISTING SPOT ELEVATION SLOPE
	GRADING AGAINST STEM WALL
	ASPHALT PAVING
	CONCRETE PAVING
	CONCRETE DRAINAGE PAN
	CONCRETE CURB & GUTTER
	STORM SEWER PIPE
	STORM SEWER MH, INLET, ETC
	ROAD CENTERLINE & STATIONING
	TRACT BOUNDARY
	BUILDING SETBACK

SEE STORM DRAINAGE PLAN & PROFILE  
SHEETS FOR DRAINAGE INFORMATION

SEE SHEETS C2.05–C2.06 FOR  
TYPICAL ROAD SECTIONS

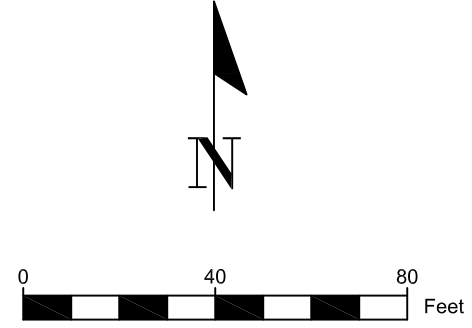
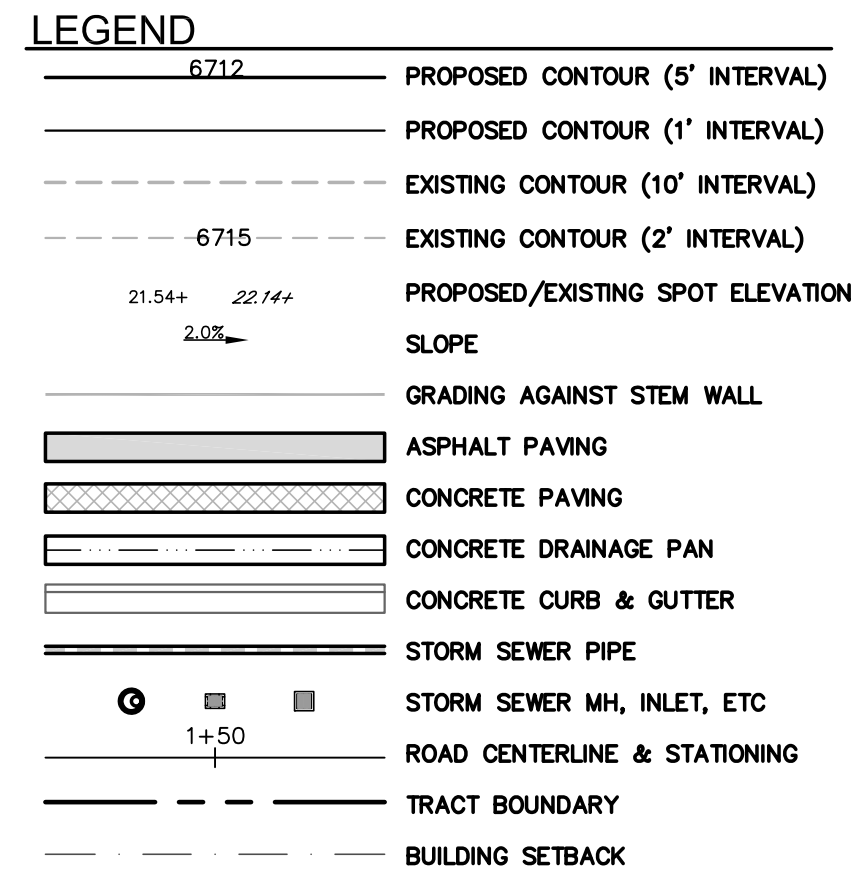
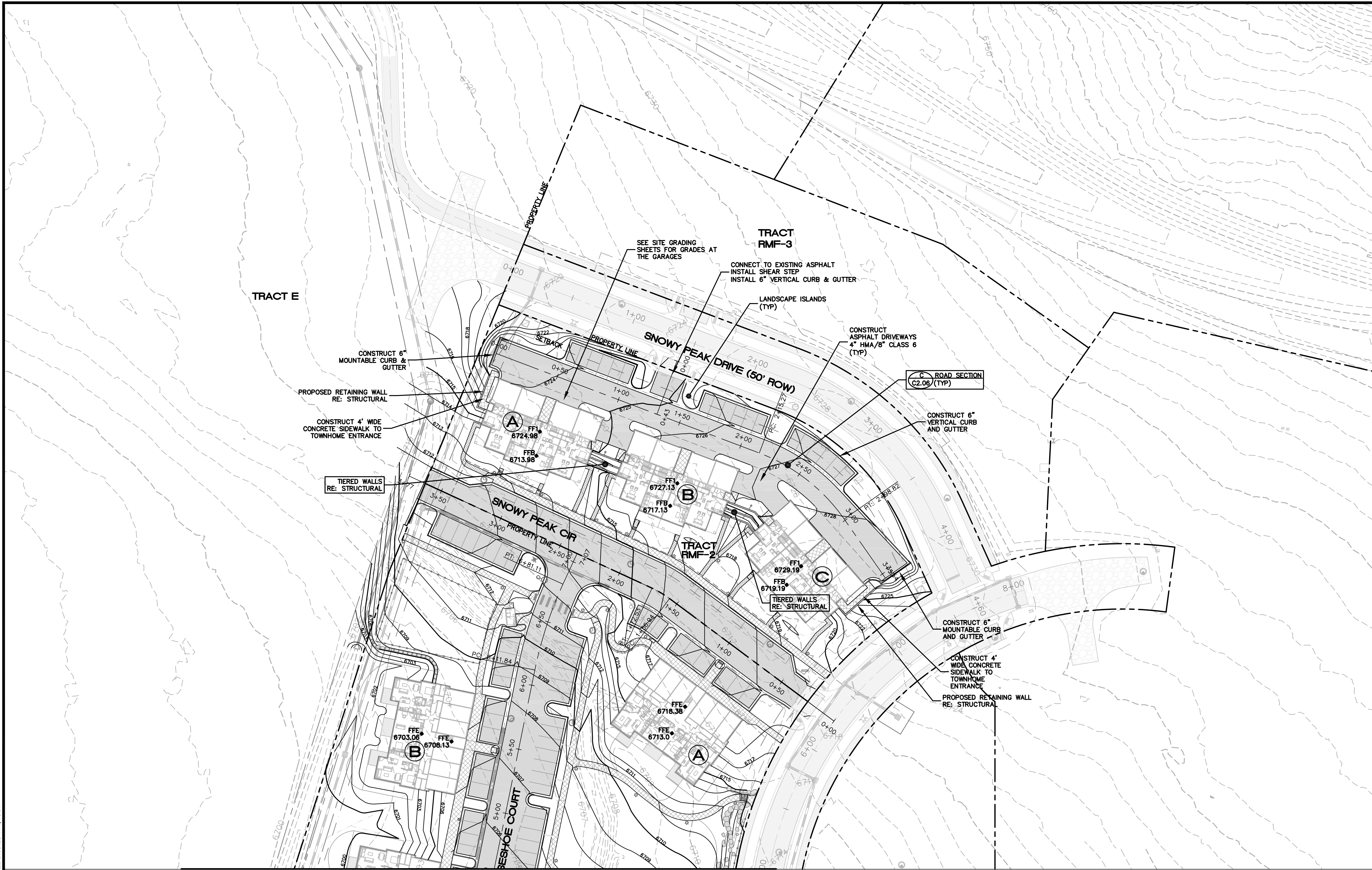
GEOTECHNICAL ENGINEER, CESARE,  
TO DETERMINE LIMITS OF ROADWAY  
AND SURFACE STABILIZATION

ALL ADA RAMPS SHOWN REQUIRE  
DETECTABLE WARNING PLATES PER  
ADA SPECIFICATIONS

SHEET C2.01		<table><tr><td>DESIGNED GLB, RIF</td><td></td></tr><tr><td>DRAWN GLB, RIF</td><td></td></tr><tr><td>CHECKED MCW</td><td></td></tr><tr><td>JOB NO. 53480.5</td><td></td></tr><tr><td>DATE 07/24/2021</td><td></td></tr></table>		DESIGNED GLB, RIF		DRAWN GLB, RIF		CHECKED MCW		JOB NO. 53480.5		DATE 07/24/2021		<table><tr><td>NO.</td><td>DATE</td><td>REVISIONS</td><td>BY</td></tr><tr><td>1</td><td>01/06/2022</td><td>MAJOR DEVELOPMENT PERMIT</td><td>GLB</td></tr><tr><td>2</td><td>04/24/2022</td><td>MDP-RESPONSE TO COMMENTS</td><td>GLB</td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr></table>		NO.	DATE	REVISIONS	BY	1	01/06/2022	MAJOR DEVELOPMENT PERMIT	GLB	2	04/24/2022	MDP-RESPONSE TO COMMENTS	GLB																													<div><h1>HAYMEADOW FILING 1</h1><h2>RMF-1 &amp; RMF-2</h2><h3>ROAD PLAN AND PROFILES</h3></div> <div><p>ALPINE ENGINEERING INC. 34510 HWY 6 / UNIT A8 / PO BOX 97 WADSWORTH CO 81632 / 970.926.3373 WWW.ALPINECIVIL.COM</p></div>	
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1	01/06/2022	MAJOR DEVELOPMENT PERMIT	GLB																																																						
2	04/24/2022	MDP-RESPONSE TO COMMENTS	GLB																																																						



O:\Eagle\Haymeadow-53480.5-2016.dwg\Site\RMF-1\Master\Road Grading-RMF1.dwg, 4/20/2022 3:03:23 PM, toth



SEE STORM DRAINAGE PLAN & PROFILE SHEETS FOR DRAINAGE INFORMATION

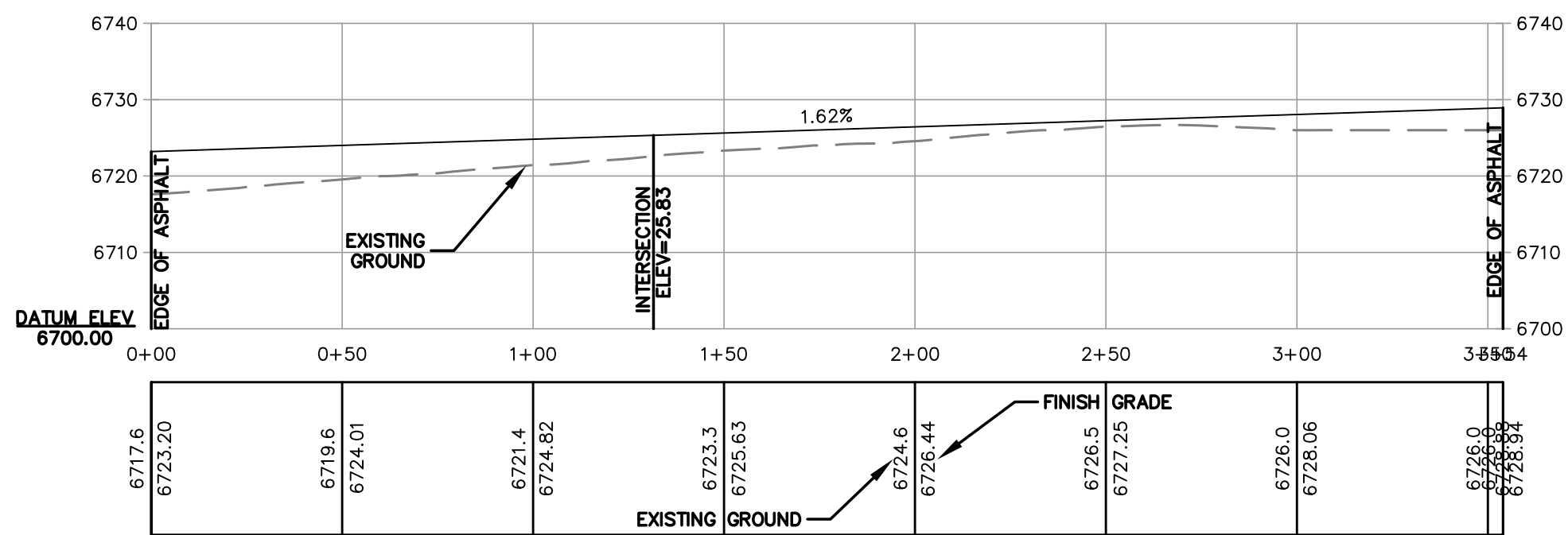
SEE SHEETS C2.05-C2.06 FOR TYPICAL ROAD SECTIONS

GEOTECHNICAL ENGINEER, CESARE, TO DETERMINE LIMITS OF ROADWAY AND SURFACE STABILIZATION

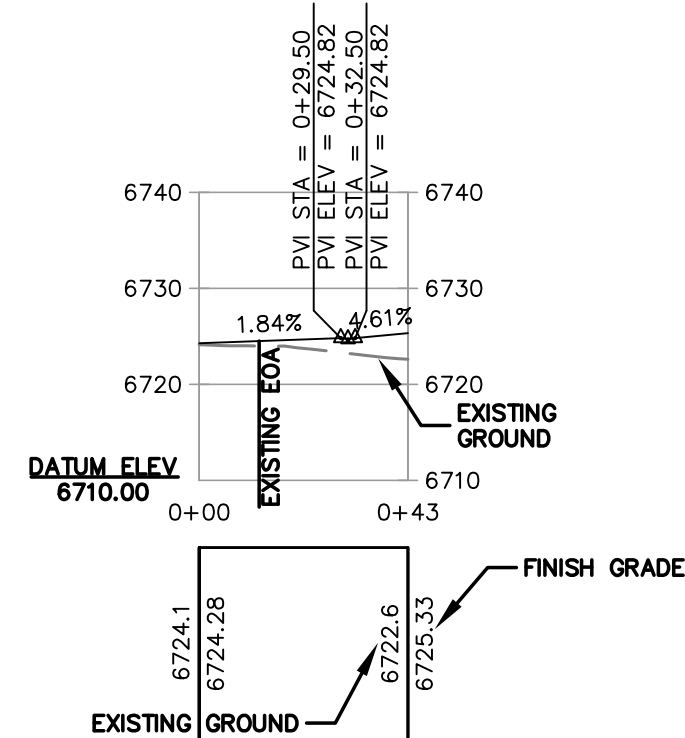
ALL ADA RAMPS SHOWN REQUIRE DETECTABLE WARNING PLATES PER ADA SPECIFICATIONS

**PRELIMINARY**  
April 20, 2022  
**NOT FOR CONSTRUCTION**

ROAD PROFILE: RMF-2



ROAD PROFILE: SNOWY PEAK CONNECTION



# HAYMEADOW FILING 1

## RMF-1 & RMF-2

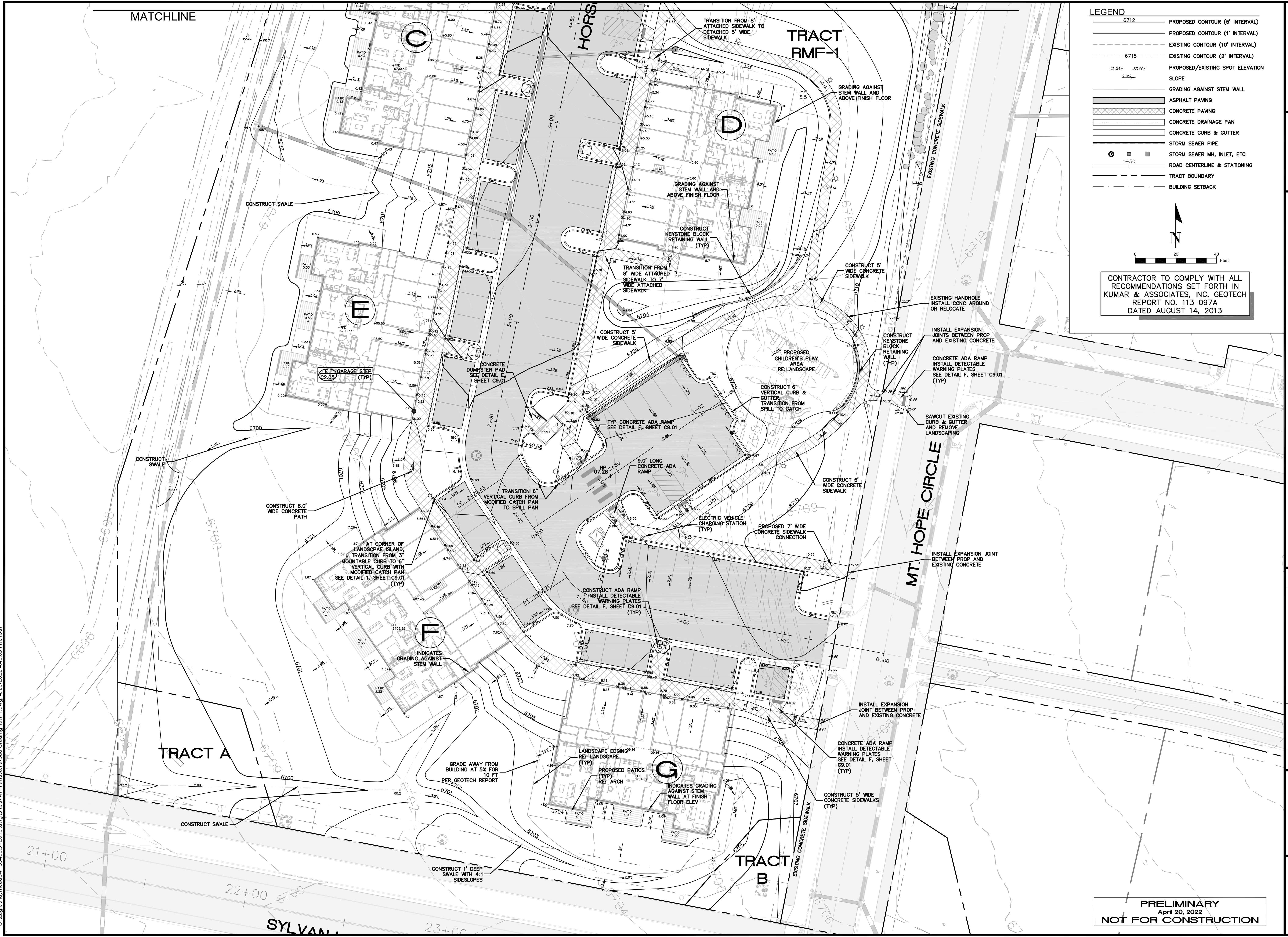
### ROAD PLAN AND PROFILES

NO.	DATE	REVISIONS	BY
1	01/06/2022	MAJOR DEVELOPMENT PERMIT	GLB
2	04/24/2022	MDP-RESPONSE TO COMMENTS	GLB

DESIGNED	GLB, RIF
DRAWN	GLB, RIF
CHECKED	MCW
JOB NO.	53480.5
DATE	07/24/2021

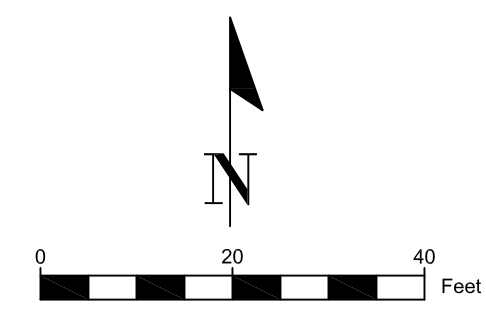


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**LEGEND**

- 6712 PROPOSED CONTOUR (5' INTERVAL)
- PROPOSED CONTOUR (1' INTERVAL)
- EXISTING CONTOUR (10' INTERVAL)
- 6715 EXISTING CONTOUR (2' INTERVAL)
- 21.54+ 22.14+ PROPOSED/EXISTING SPOT ELEVATION
- 2.0% SLOPE
- GRADING AGAINST STEM WALL
- ASPHALT PAVING
- CONCRETE PAVING
- CONCRETE DRAINAGE PAN
- CONCRETE CURB & GUTTER
- STORM SEWER PIPE
- STORM SEWER MH, INLET, ETC
- 1+50 ROAD CENTERLINE & STATIONING
- TRACT BOUNDARY
- BUILDING SETBACK



CONTRACTOR TO COMPLY WITH ALL RECOMMENDATIONS SET FORTH IN KUMAR & ASSOCIATES, INC. GEOTECH REPORT NO. 113 097A DATED AUGUST 14, 2013

PRELIMINARY  
April 20, 2022  
NOT FOR CONSTRUCTION



**HAYMEADOW FILING 1**  
**RMF-1 & RMF-2**  
**SITE GRADING**

NO.	DATE	REVISIONS	BY
1	01/06/2022	MAJOR DEVELOPMENT PERMIT	GLB
2	04/24/2022	MDP-RESPONSE TO COMMENTS	GLB

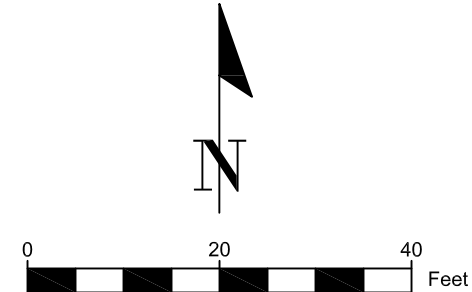
DESIGNED	GLB, RIF
DRAWN	GLB, RIF
CHECKED	MCW
JOB NO.	53480.5
DATE	07/24/2021

SHEET  
C2.03



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- LEGEND**
- 6712 PROPOSED CONTOUR (5' INTERVAL)
  - PROPOSED CONTOUR (1' INTERVAL)
  - EXISTING CONTOUR (10' INTERVAL)
  - 6715 EXISTING CONTOUR (2' INTERVAL)
  - 21.54+ 22.74+ PROPOSED/EXISTING SPOT ELEVATION
  - 2.05% SLOPE
  - GRADING AGAINST STEM WALL
  - ASPHALT PAVING
  - CONCRETE PAVING
  - CONCRETE DRAINAGE PAN
  - CONCRETE CURB & GUTTER
  - STORM SEWER PIPE
  - STORM SEWER MH, INLET, ETC
  - 1+50 ROAD CENTERLINE & STATIONING
  - TRACT BOUNDARY
  - BUILDING SETBACK



CONTRACTOR TO COMPLY WITH ALL  
RECOMMENDATIONS SET FORTH IN  
KUMAR & ASSOCIATES, INC. GEOTECH  
REPORT NO. 113 097A  
DATED AUGUST 14, 2013

**PRELIMINARY**  
April 20, 2022  
**NOT FOR CONSTRUCTION**

ACT E



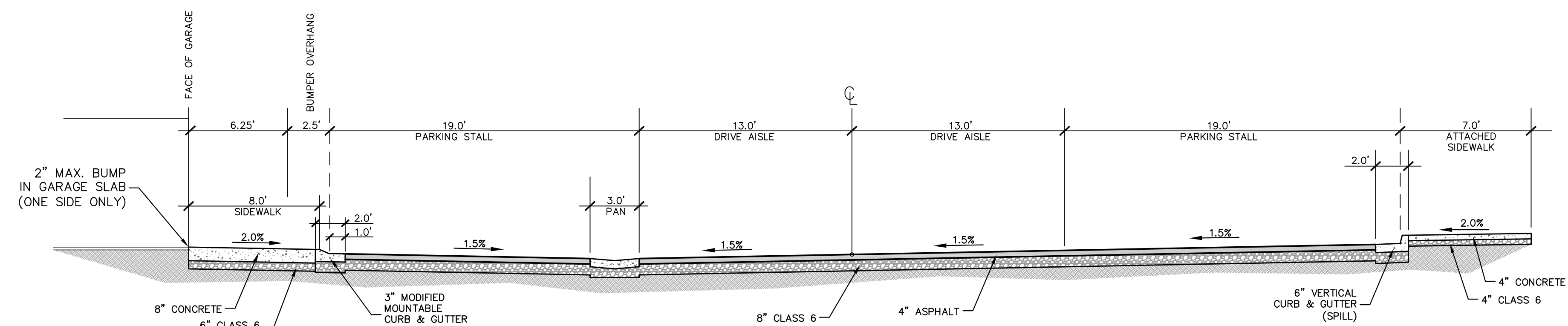
**HAYMEADOW FILING 1**  
**RMF-1 & RMF-2**  
**SITE GRADING**

NO.	DATE	REVISIONS	BY
1	01/06/2022	MAJOR DEVELOPMENT PERMIT	GLB
2	04/24/2022	MDP-RESPONSE TO COMMENTS	GLB

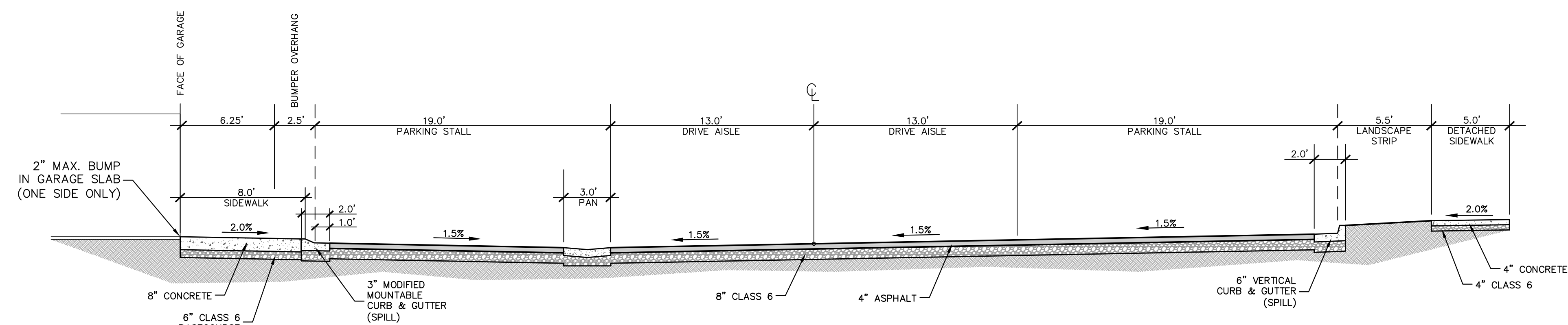
DESIGNED	GLB, RIF
DRAWN	GLB, RIF
CHECKED	MCW
JOB NO.	53480.5
DATE	07/24/2021

**SHEET**  
**C2.04**

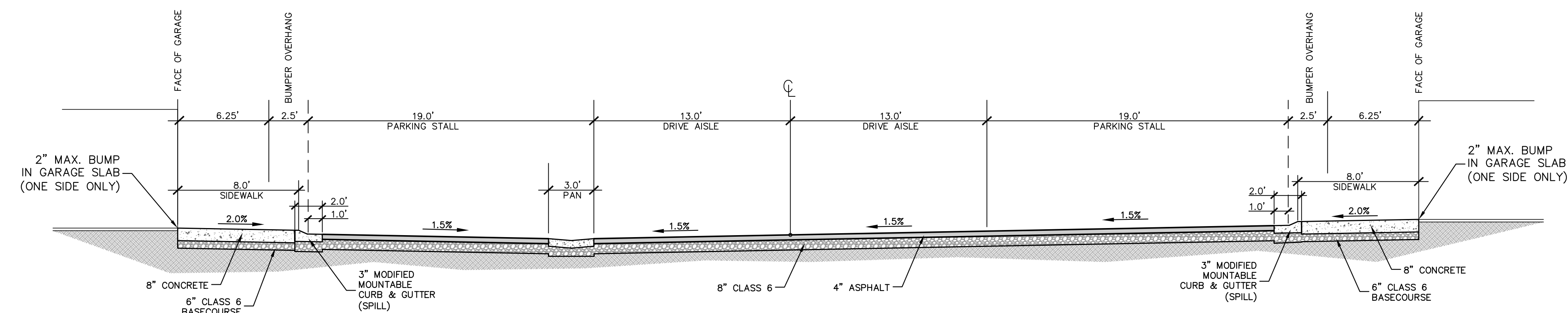




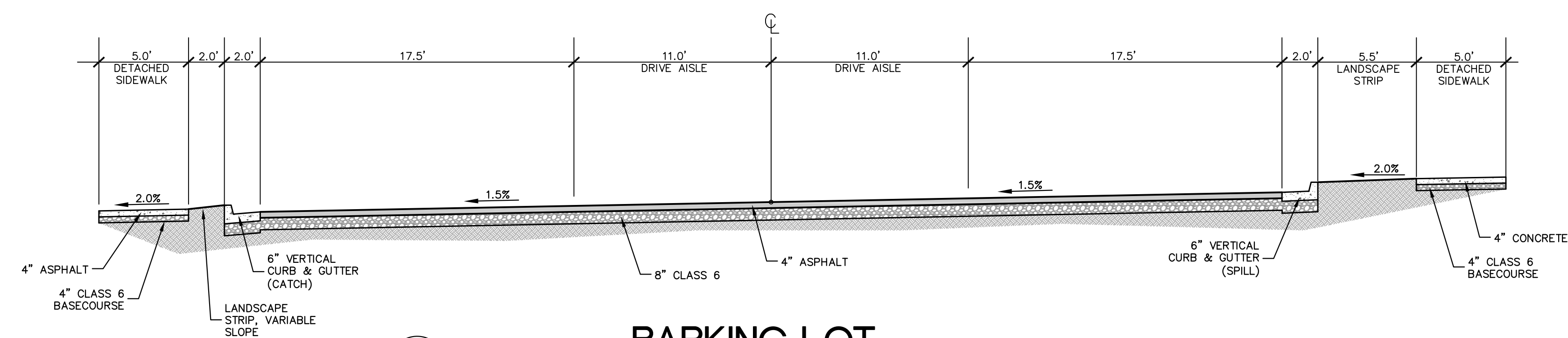
(A) HORSESHOE COURT  
RIGHT ATTACHED SIDEWALK  
TYPICAL CROSS SECTION



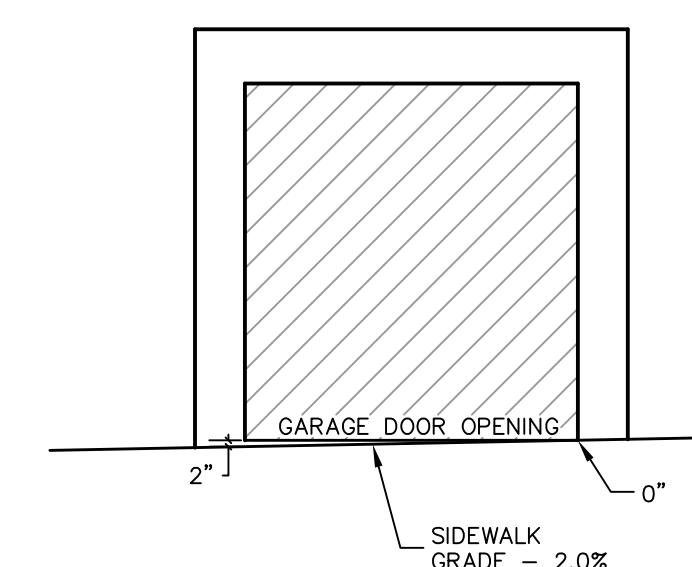
(B) HORSESHOE COURT  
RIGHT DETACHED SIDEWALK  
TYPICAL CROSS SECTION



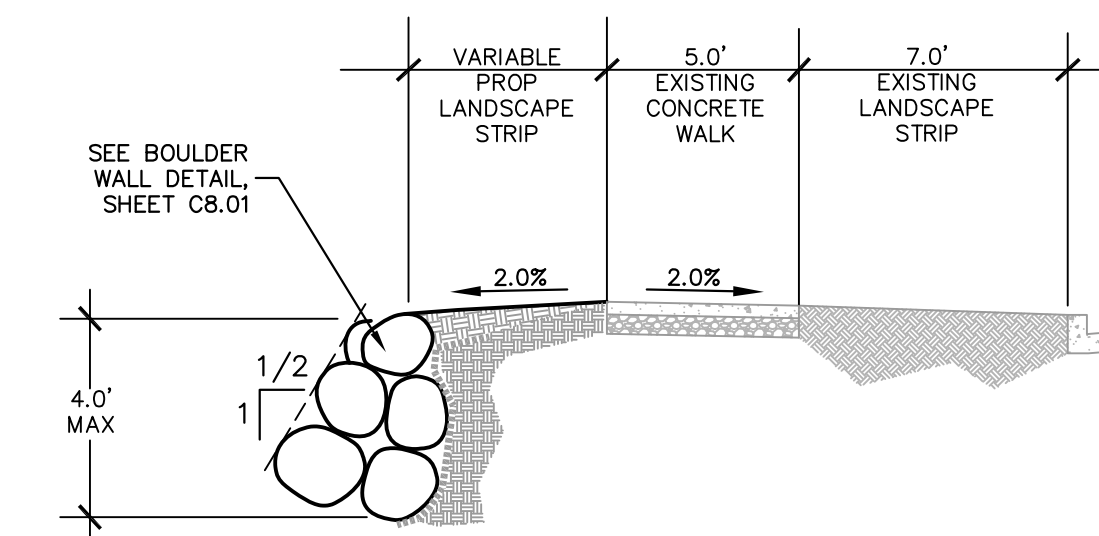
**C HORSESHOE COURT  
GARAGES BOTH SIDES  
TYPICAL CROSS SECTION**



**D** PARKING LOT  
TYPICAL CROSS SECTION



**(E) GARAGE DOOR STEP  
TYPICAL CROSS SECTION**



⑥ MT. HOPE BOULDER WALL  
TYPICAL SECTION

PRELIMINARY  
April 20, 2022  
NOT FOR CONSTRUCTION

DESIGNED	GLB. RIF	NO.	DATE	REVISIONS	BY
DRAWN	GLB. RIF	1	07/06/2022	MAJOR DEVELOPMENT PERMIT	GLB
CHECKED	MCW	2	04/24/2022	MDP-RESPONSE TO COMMENTS	GLB
JOB NO.	53480.5				
DATE	07/24/2021				





(D) TYPICAL ROADWAY STABILIZATION SECTION  
HP KUMAR FIGURE 1

PRELIMINARY  
April 20, 2022  
NOT FOR CONSTRUCTION

# HAYMEADOW FILING 1

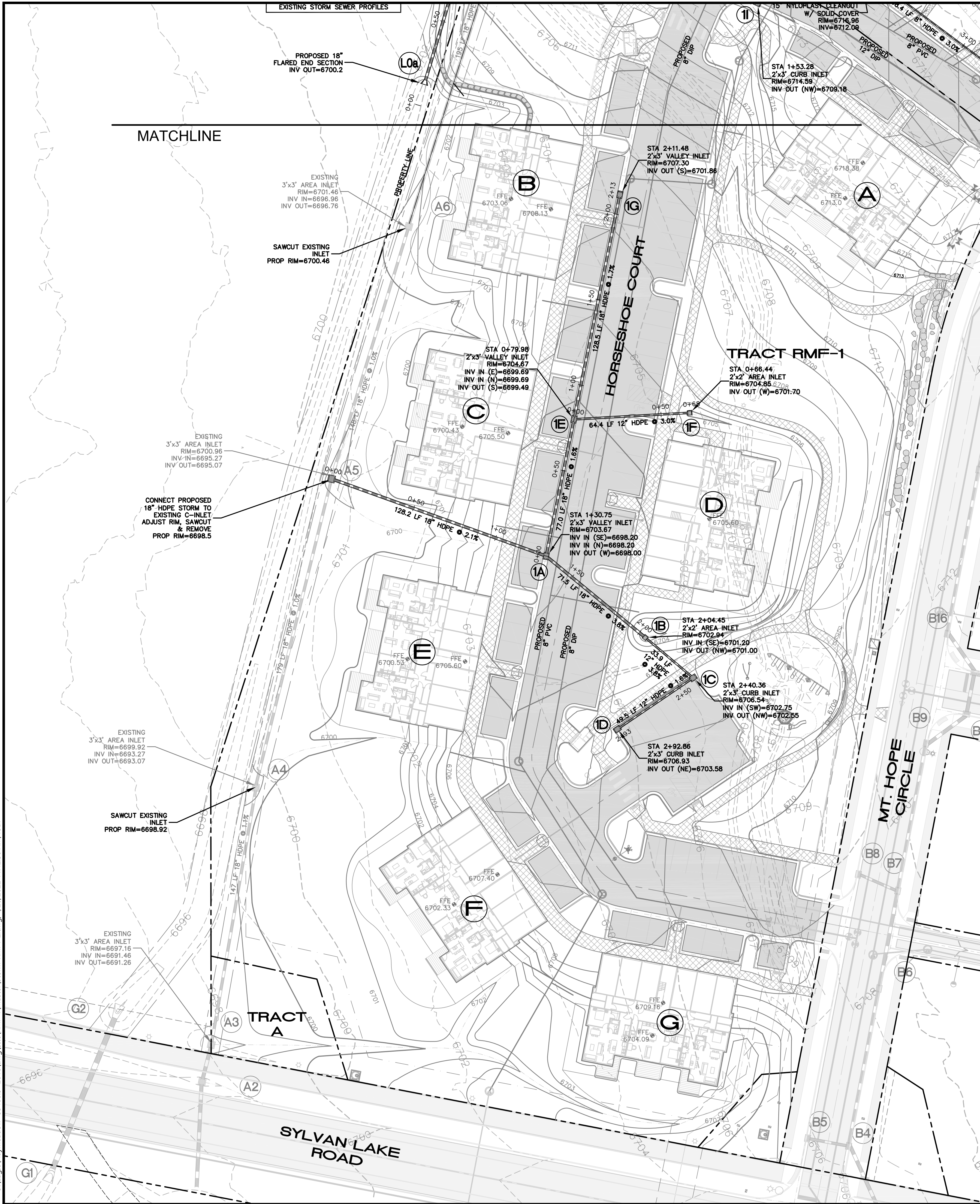
## RMF-1 & RMF-2

### TYPICAL ROAD SECTIONS

DESIGNED	GLB, RIF	NO.	DATE	REVISIONS	BY
DRAWN	GLB, RIF	1	01/06/2022	MAJOR DEVELOPMENT PERMIT	GLB
CHECKED	MCW	2	04/24/2022	MDP-RESPONSE TO COMMENTS	GLB
JOB NO.	53480.5				
DATE	07/24/2021				



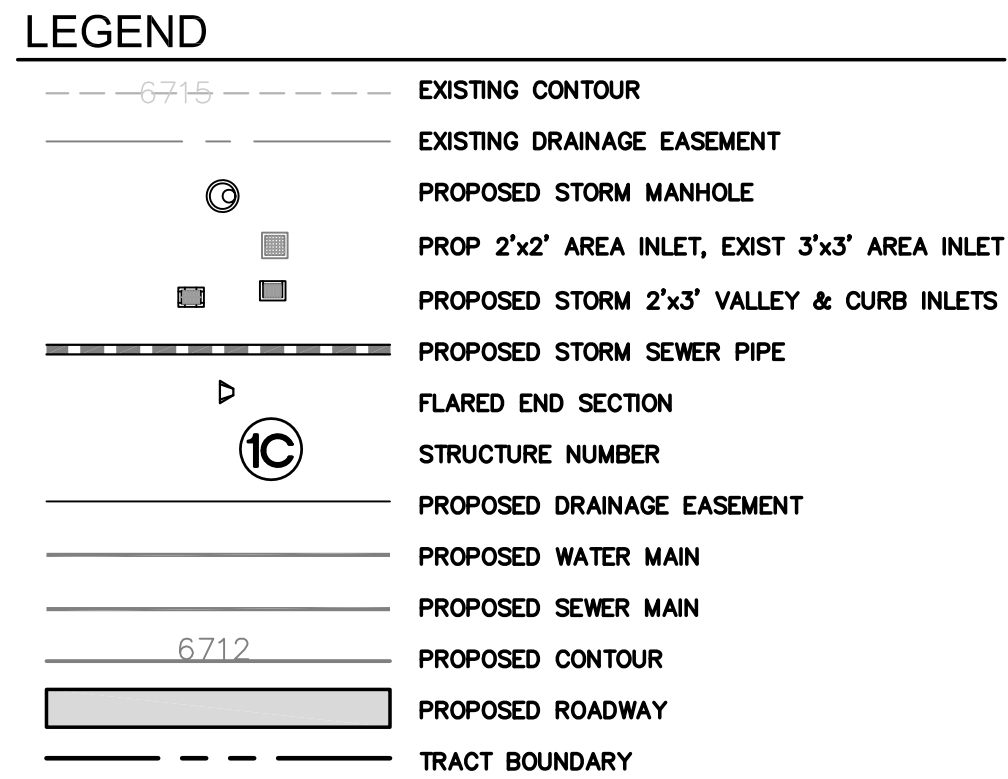
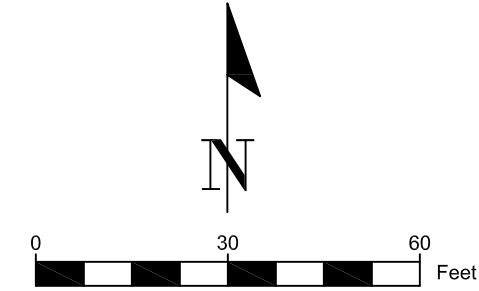
O:\Eagle\Haymeadow-53480.5-2016.dwg\Site\RMF-1\Master\Storm-RMF-1-2.dwg, 4/20/2022 11:42:58 AM, foth



ALL STORM PIPE TO BE ADS  
N-12 (WT) HDPE WITH TYPE  
R-4 GASKETED JOINTS

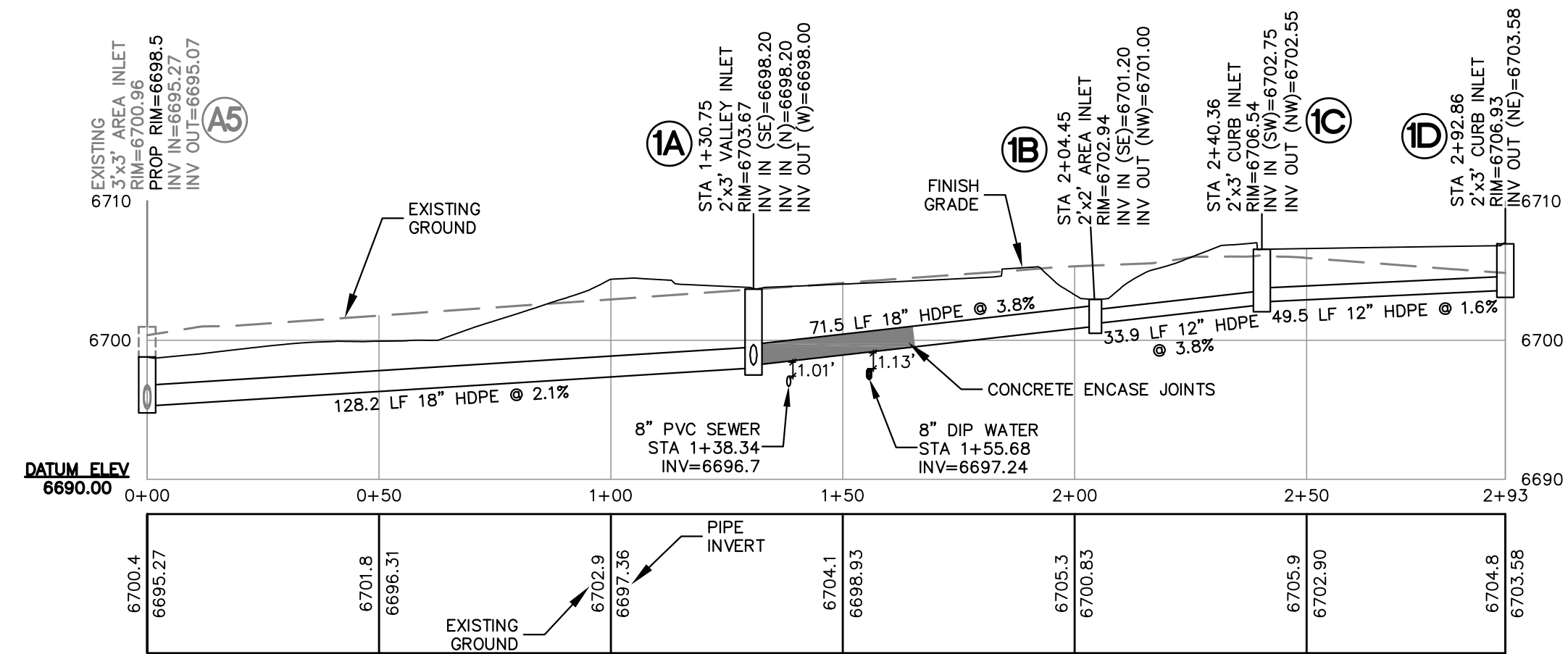
SEPARATION DISTANCES ARE  
FROM OUTSIDE OF STORM PIPE  
TO OUTSIDE OF CROSSING PIPE

AT WATER CROSSINGS, CONCRETE  
ENCASE THE BELL/SPIGOT GASKETED  
JOINTS OF HDPE STORM 10' BOTH  
SIDES OF CROSSING (TYP) PER SECTION  
4.07-TOE PUBLIC WORKS MANUAL

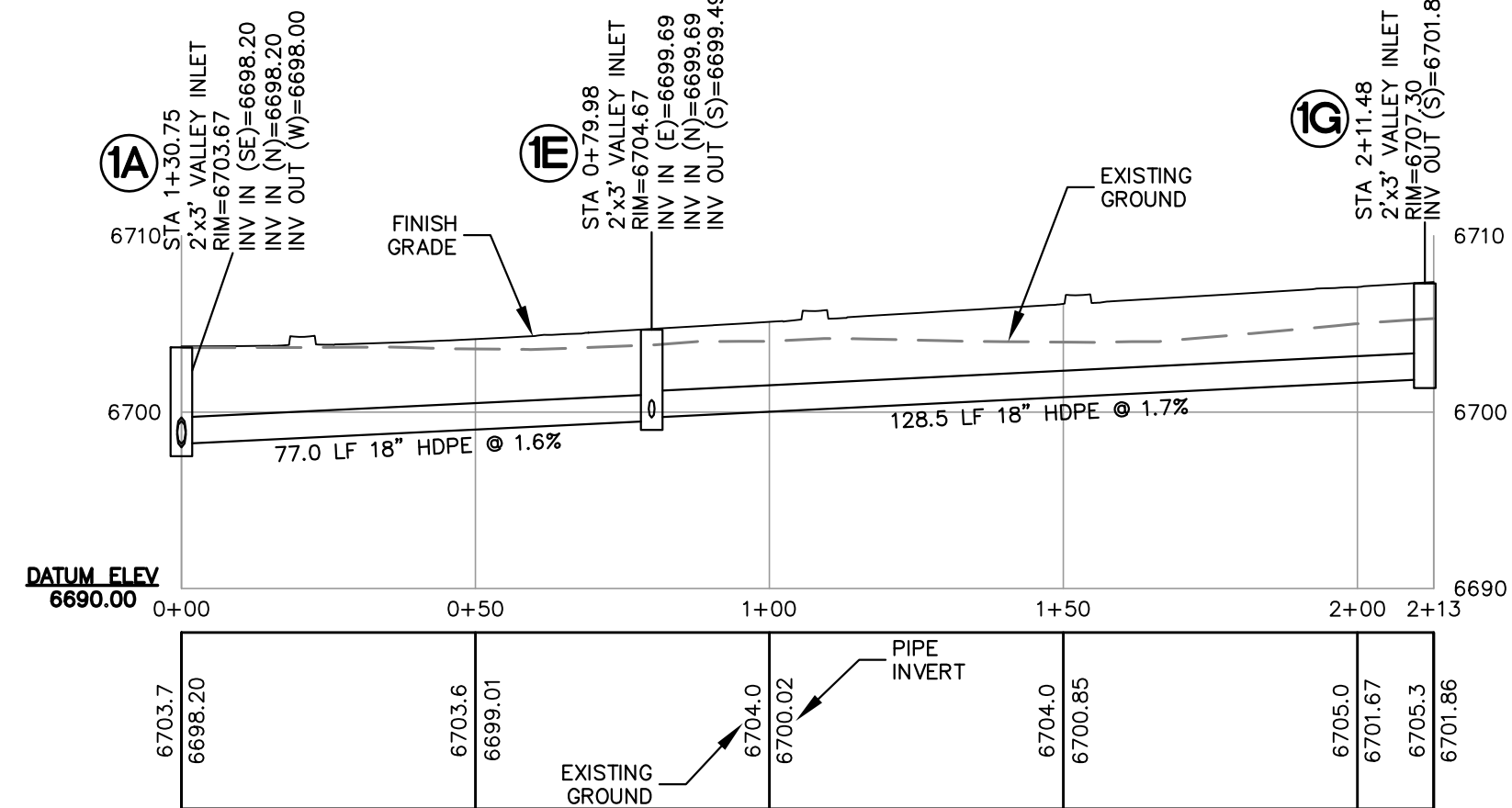


**PRELIMINARY**  
April 20, 2022  
**NOT FOR CONSTRUCTION**

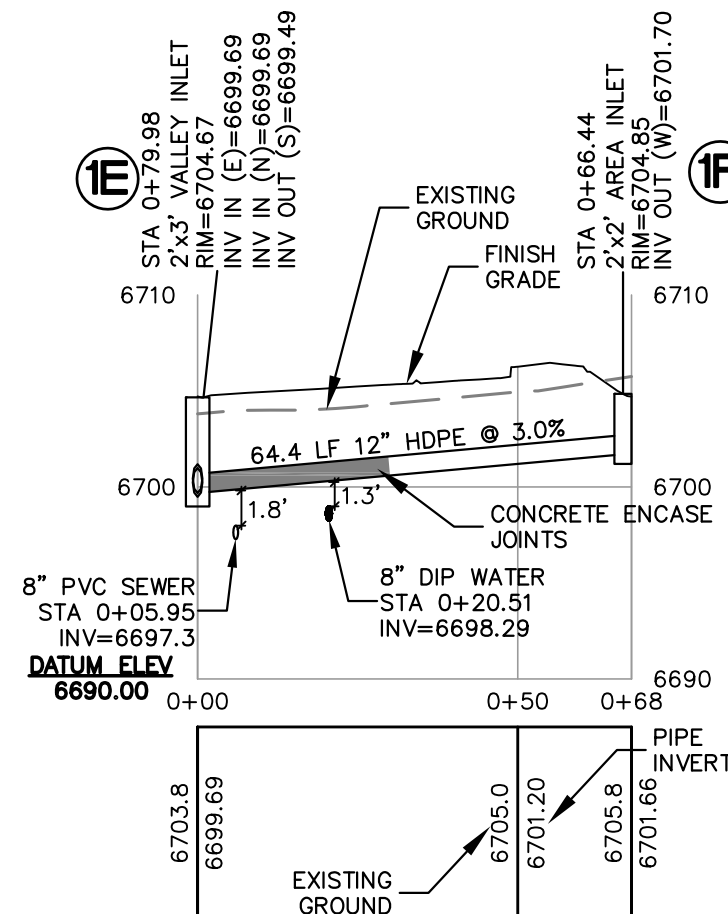
**PROFILE: STORM A5-1D**



**PROFILE: STORM 1A-1G**



**PROFILE: STORM 1E-1F**



# HAYMEADOW FILING 1

## RMF-1 & RMF-2

### STORM PLAN AND PROFILES



DESIGNED	GLB, RIF	DATE	NO.	REVISIONS	BY
DRAWN	GLB, RIF	01/06/2022	1	MAJOR DEVELOPMENT PERMIT	GLB
CHECKED	MCW	04/24/2022	2	MDP-RESPONSE TO COMMENTS	GLB
JOB NO.	53480.5				
DATE	07/24/2021				

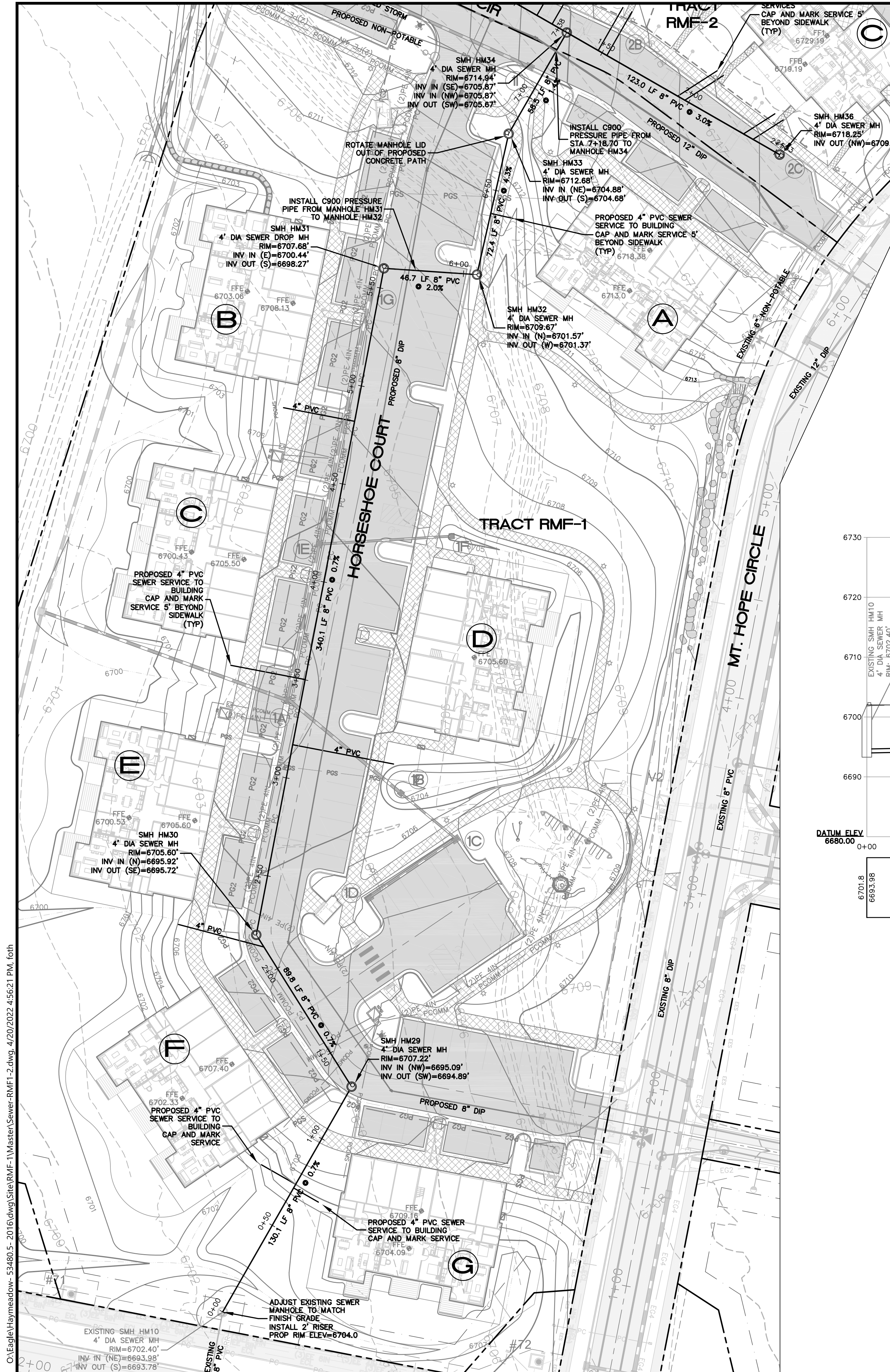
**SHEET**  
**C3.01**



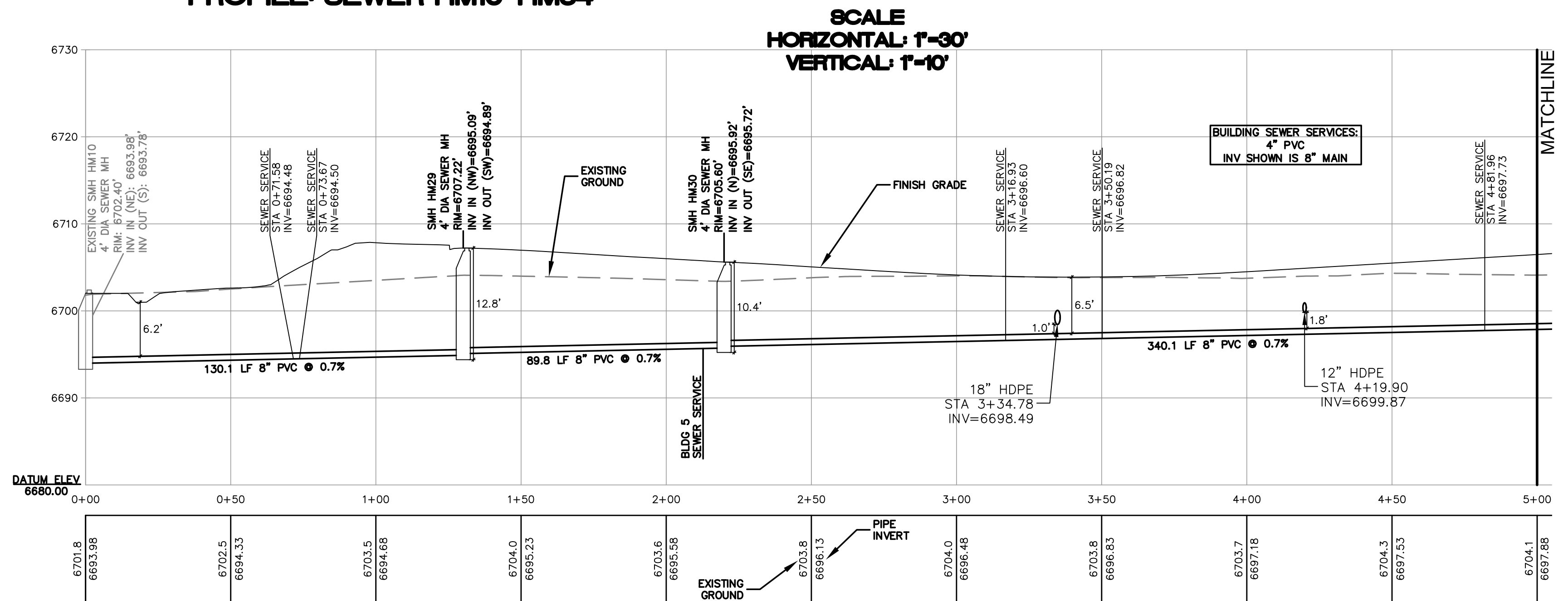




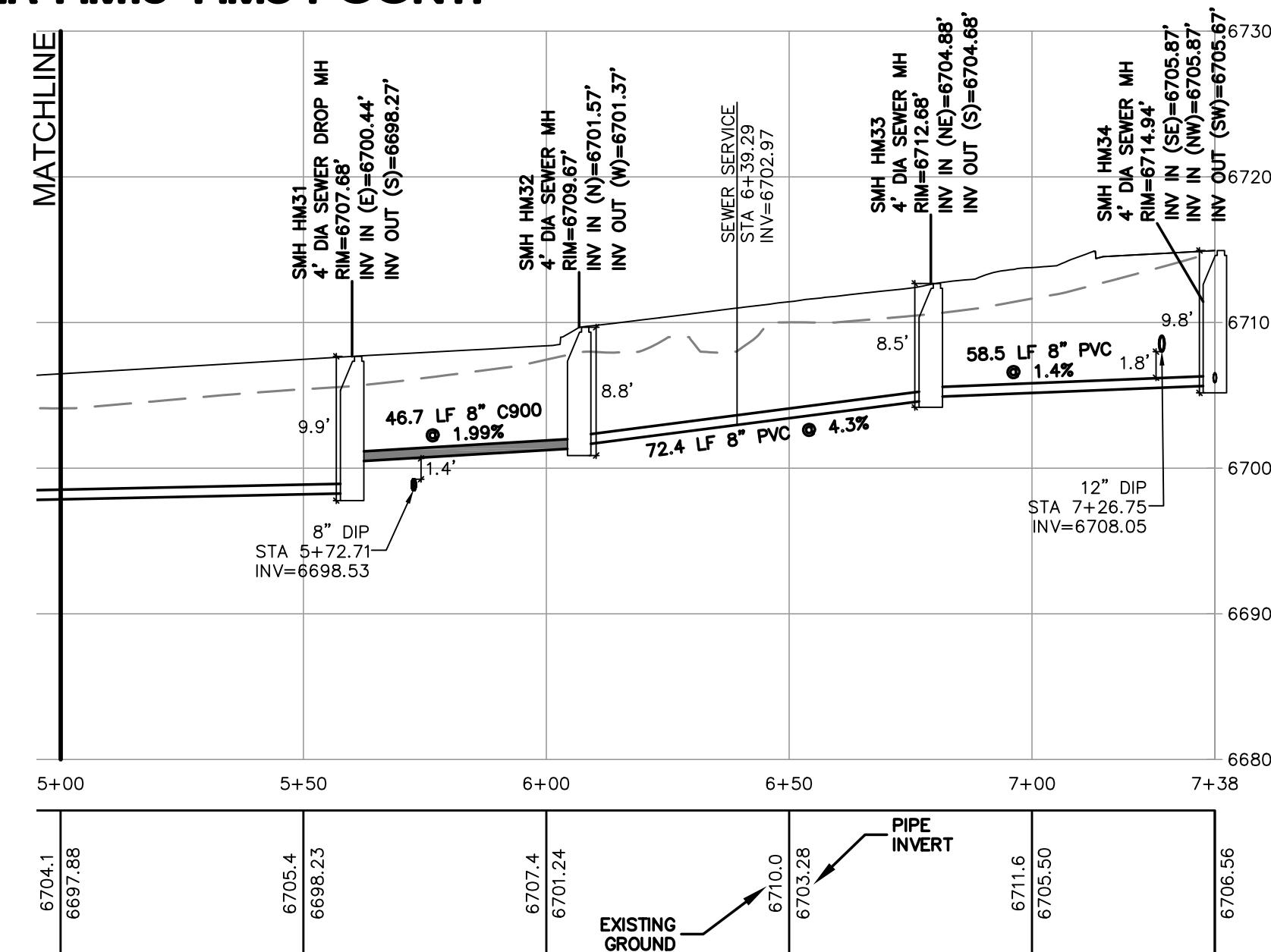
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PROFILE: SEWER HM10-HM34



PROFILE: SEWER HM10-HM34 CONT.



IN ACCORDANCE WITH CURRENT TOE PUBLIC WORKS MANUAL (JAN 2018-SECTION 1.08), INSTALL C-900 WITH HARCO COUPLERS 10' BOTH SIDES OF WATER LINE AT CROSSINGS

PER SB18-167, ALL NEW UNDERGROUND FACILITIES, INCLUDING SERVICE LINES, MUST BE ELECTRONICALLY LOCATABLE  
INSTALL TRACER WIRE TO ALL SEWER MAIN AND SERVICE LINES

ROTATE SEWER MANHOLE LIDS OUT OF WHEEL PATH

**LEGEND**

- PROPOSED WATER MAIN
- PROPOSED WATER SERVICE
- PROPOSED FIRE HYDRANT ASSEMBLY
- PROPOSED SANITARY SEWER MAIN W/ MANHOLE
- PROPOSED SANITARY SEWER SERVICE
- PROPOSED STORM SEWER & INLETS
- PROPOSED RAW WATER
- PROPOSED CONTOUR
- PROPOSED ROADWAY
- EXISTING WATER
- EXISTING SEWER
- EXISTING RAW WATER
- EXISTING CONTOUR
- TRACT BOUNDARY

**PRELIMINARY**  
April 20, 2022  
**NOT FOR CONSTRUCTION**

**ALPINE ENGINEERING INC.**  
34510 HWY 61 UNIT A9 PO BOX 97  
EDWARDS CO 81632 / 970.926.3373  
WWW.ALPINECIVIL.COM

**HAYMEADOW FILING 1**  
RMF-1 & RMF-2  
SEWER PLAN AND PROFILES

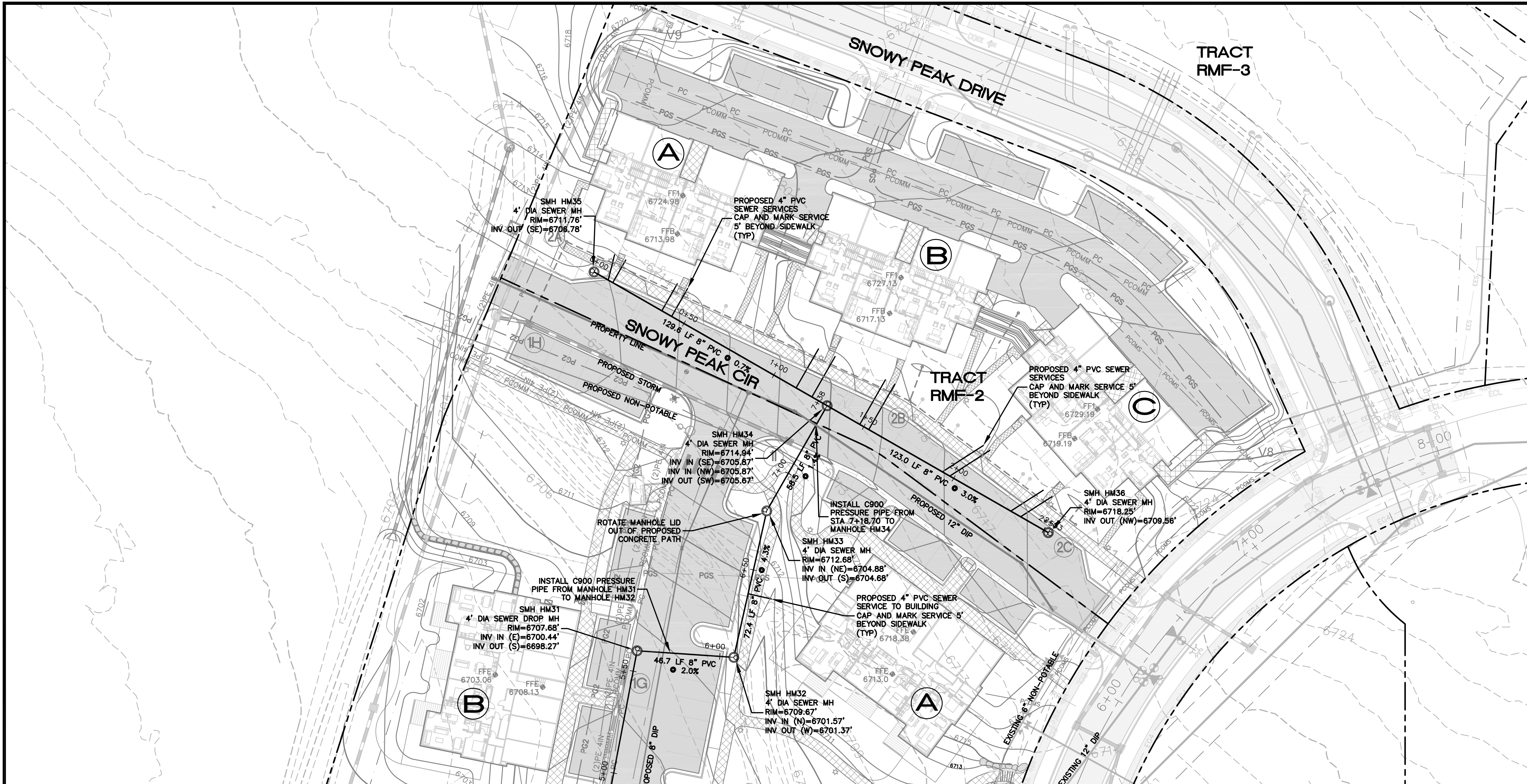
NO.	DATE	REVISIONS	BY
1	01/06/2022	MAJOR DEVELOPMENT PERMIT	GLB
2	04/24/2022	MDP-RESPONSE TO COMMENTS	GLB

DESIGNED	GLB, RIF
DRAWN	GLB, RIF
CHECKED	MCW
JOB NO.	53480.5
DATE	07/24/2021

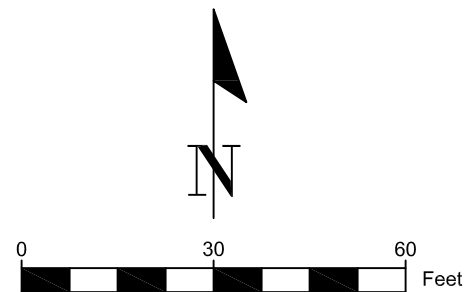
**SHEET**  
C4.01



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- LEGEND**
- PROPOSED WATER MAIN
  - PROPOSED WATER SERVICE
  - PROPOSED FIRE HYDRANT ASSEMBLY
  - PROPOSED SANITARY SEWER MAIN W/ MANHOLE
  - PROPOSED SANITARY SEWER SERVICE
  - PROPOSED STORM SEWER & INLETS
  - PROPOSED RAW WATER
  - PROPOSED CONTOUR
  - PROPOSED ROADWAY
  - EXISTING WATER
  - EXISTING SEWER
  - EXISTING RAW WATER
  - EXISTING CONTOUR
  - TRACT BOUNDARY



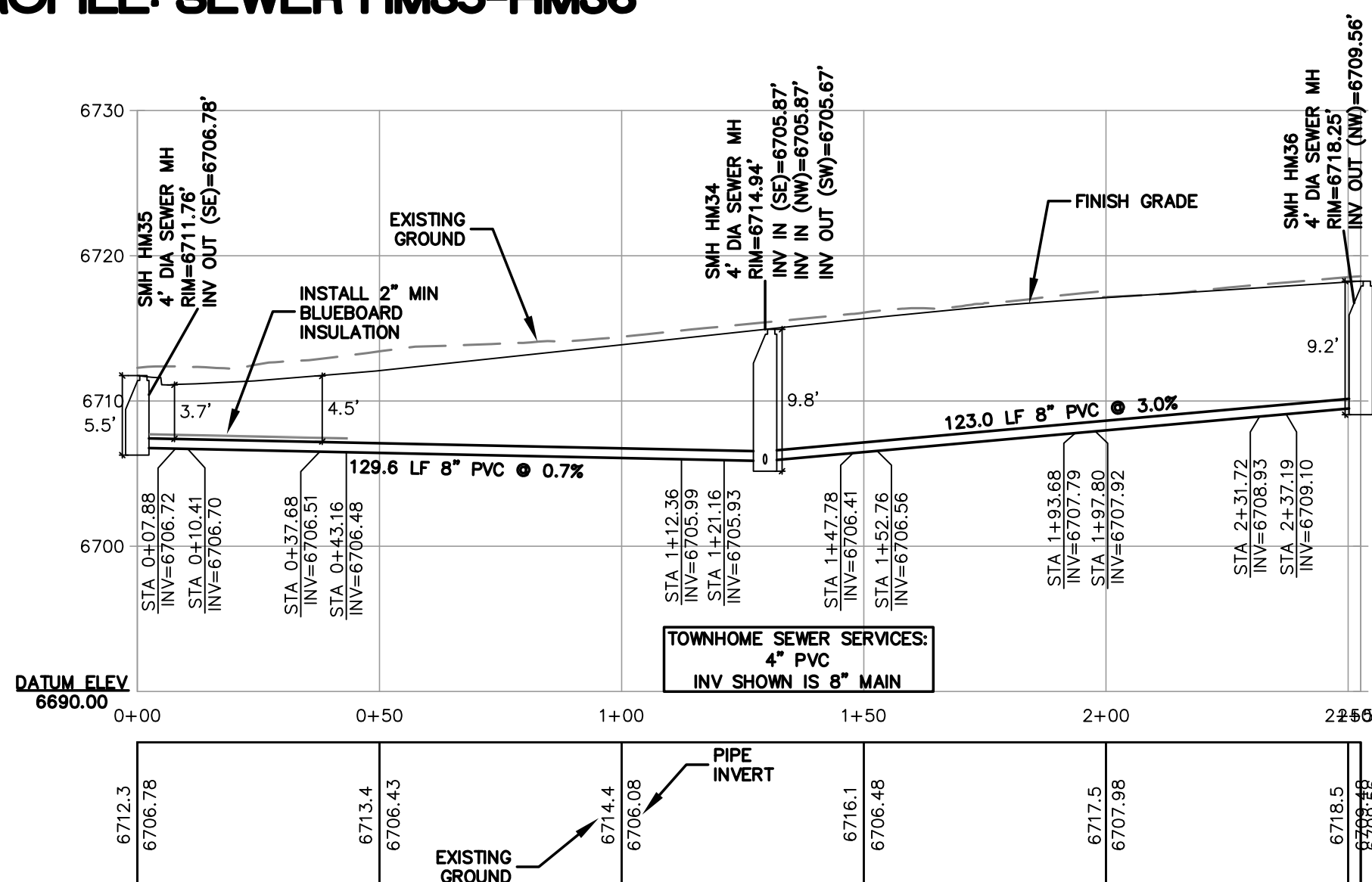
**PRELIMINARY**  
April 20, 2022  
**NOT FOR CONSTRUCTION**

IN ACCORDANCE WITH CURRENT TOE PUBLIC WORKS MANUAL (JAN 2018-SECTION 1.08), INSTALL C-900 WITH HARCO COUPLERS 10' BOTH SIDES OF WATER LINE AT CROSSINGS

PER SB18-167, ALL NEW UNDERGROUND FACILITIES, INCLUDING SERVICE LINES, MUST BE ELECTRONICALLY LOCATABLE  
INSTALL TRACER WIRE TO ALL SEWER MAIN AND SERVICE LINES

ROTATE SEWER MANHOLE LIDS OUT OF WHEEL PATH

**PROFILE: SEWER HM35-HM36**



**SCALE**  
**HORIZONTAL: 1"=30'**  
**VERTICAL: 1"=10'**



# HAYMEADOW FILING 1

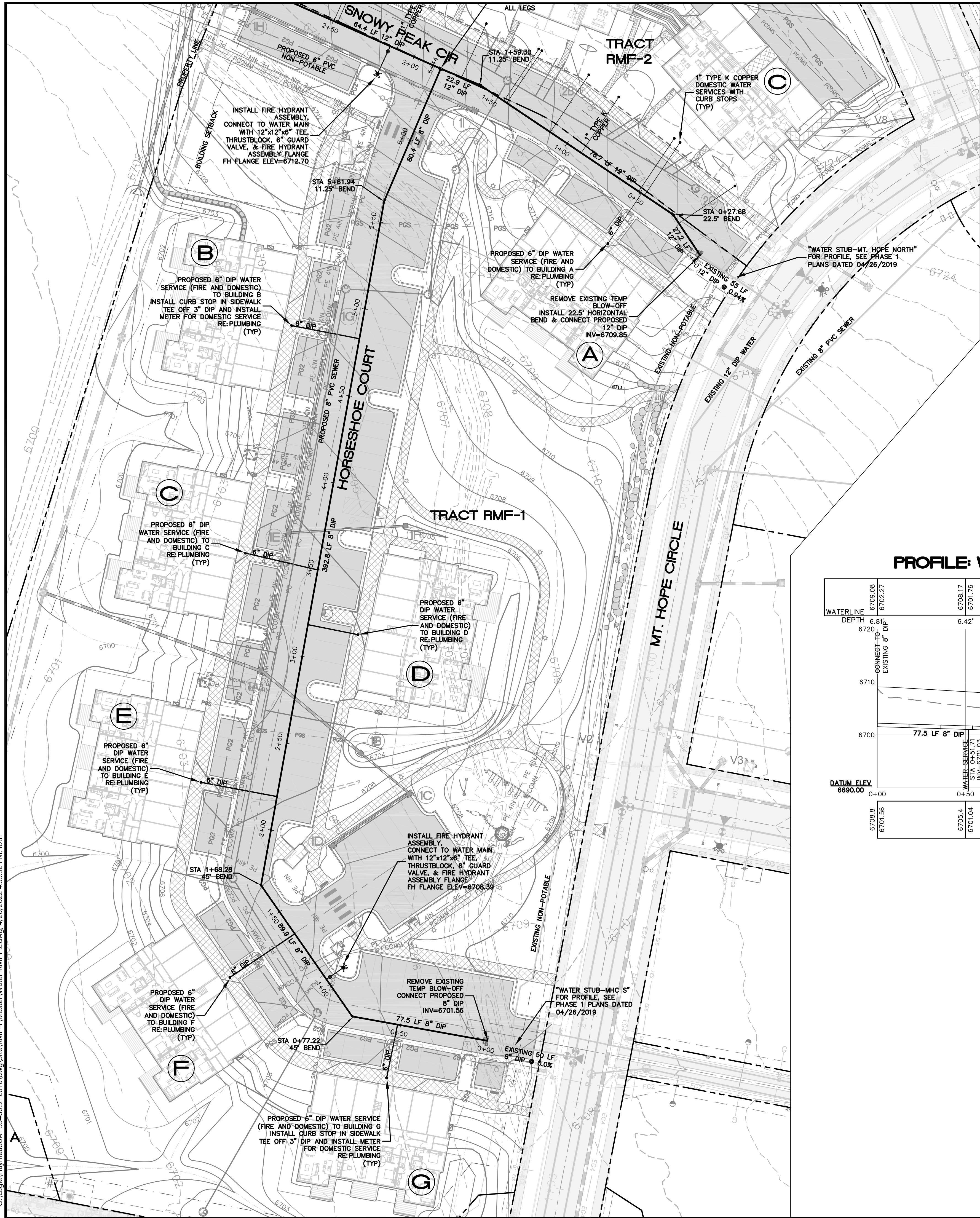
## RMF-1 & RMF-2

### SEWER PLAN AND PROFILES

NO.	DATE	REVISIONS	BY
1	01/06/2022	MAJOR DEVELOPMENT PERMIT	GLB
2	04/24/2022	MDP-RESPONSE TO COMMENTS	GLB
DESIGNED	GLB, RIF		
DRAWN	GLB, RIF		
CHECKED	MCW		
JOB NO.	53480.5		
DATE	07/24/2021		



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WATER SERVICE SIZING:  
TOWNHOMES-1" TYPE K COPPER  
CONDOS-6" DIP (FIRE & DOMESTIC)

FIRE HYDRANT FLANGE ELEVATION SHALL  
BE 4" ABOVE FINISH GRADE

PER SB18-167, ALL NEW UNDERGROUND  
FACILITIES, INCLUDING SERVICE LINES, MUST  
BE ELECTRONICALLY LOCATABLE  
INSTALL TRACER WIRE TO ALL WATER MAIN  
AND SERVICE LINES

FOR ALL CROSSINGS, REFER TO SANITARY  
SEWER AND STORM SEWER SHEETS FOR PIPE  
TYPE AND/OR ENCASEMENT AND LATEST TOE  
PW MANUAL (JAN 2018) FOR SPECIFICATIONS

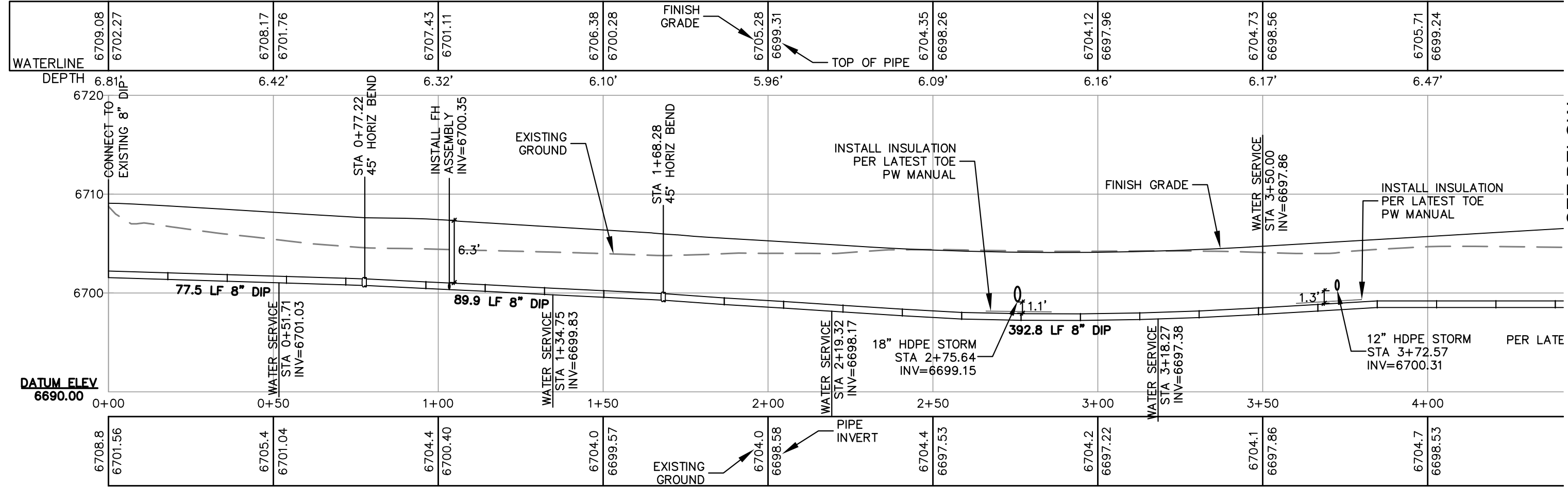
FOR TOE SPECIFICATIONS ON INSULATION,  
REFER TO DETAIL F, SHEET C8.04

**LEGEND**

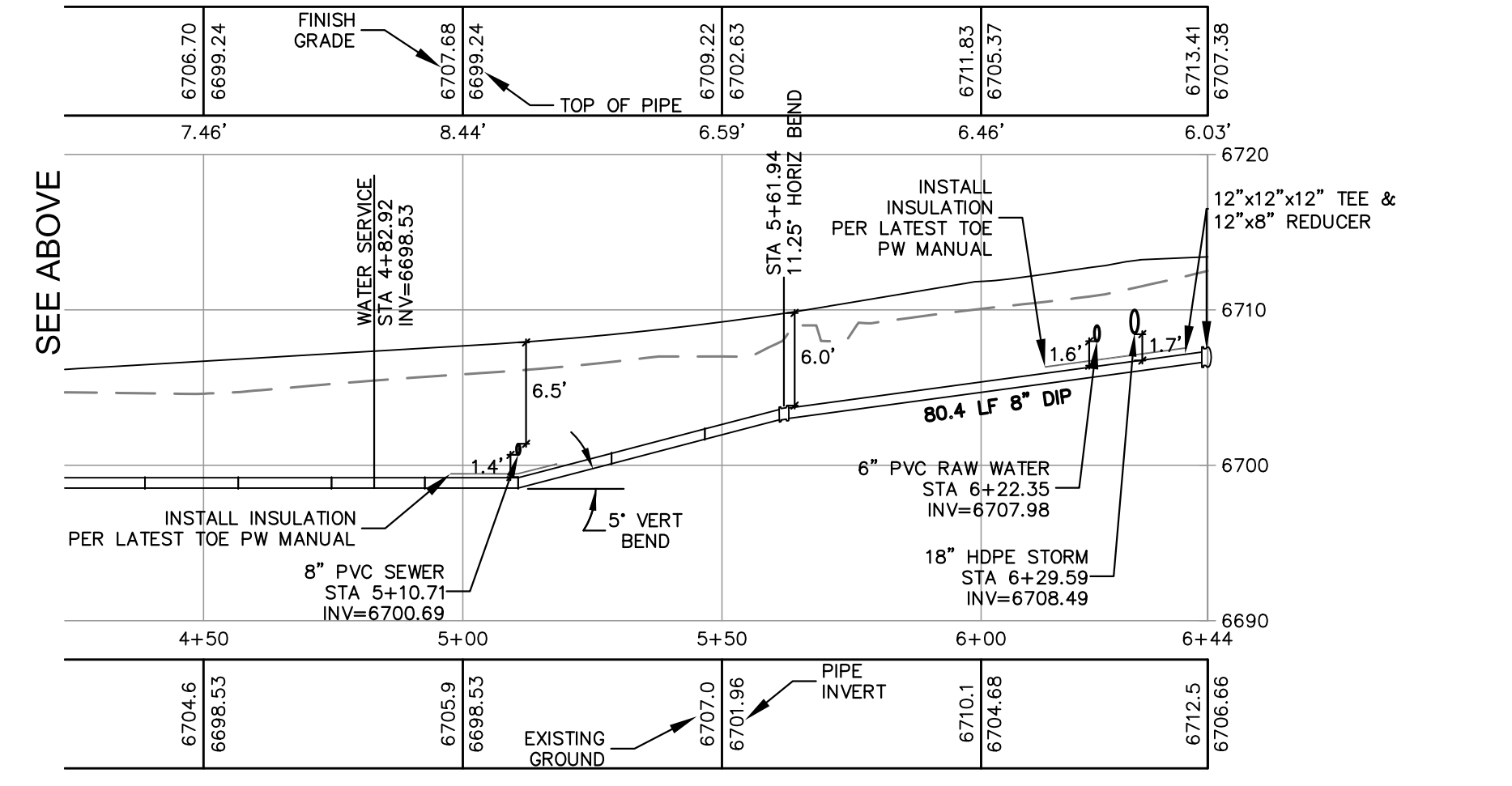
- PROPOSED WATER MAIN
- PROPOSED WATER SERVICE
- PROPOSED FIRE HYDRANT ASSEMBLY
- PROPOSED SANITARY SEWER MAIN W/ MANHOLE
- PROPOSED SANITARY SEWER SERVICE
- PROPOSED STORM SEWER & INLETS
- PROPOSED RAW WATER
- PROPOSED CONTOUR
- PROPOSED ROADWAY
- EXISTING WATER
- EXISTING SEWER
- EXISTING RAW WATER
- EXISTING CONTOUR
- TRACT BOUNDARY

**PRELIMINARY**  
April 20, 2022  
**NOT FOR CONSTRUCTION**

PROFILE: WATER-RMF1



SCALE  
HORIZONTAL: 1"=30'  
VERTICAL: 1"=10'



**HAYMEADOW FILING 1**  
RMF-1 & RMF-2  
WATER PLAN AND PROFILES

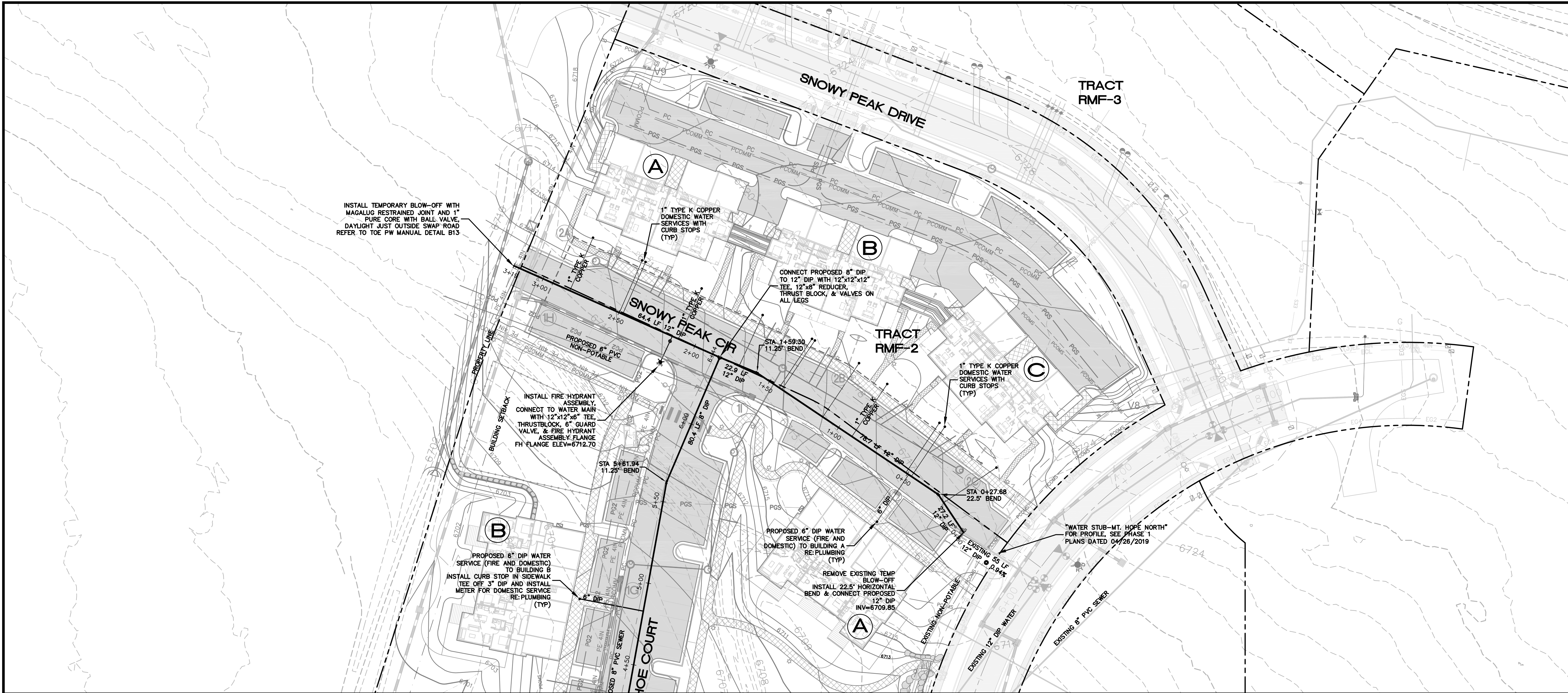
ALPINE  
ENGINEERING INC.  
34510 HWY 61 UNIT A9 PO BOX 97  
EDWARDS CO 81632 / 970.926.3373  
WWW.ALPINECIVIL.COM

DESIGNED	GLB, RIF	DATE	REVISIONS	BY
DRAWN	GLB, RIF	01/06/2022	MAJOR DEVELOPMENT PERMIT	GLB
CHECKED	MCW	04/24/2022	MDP-RESPONSE TO COMMENTS	GLB
JOB NO.	53480.5			
DATE	07/24/2021			

**SHEET**  
C5.01

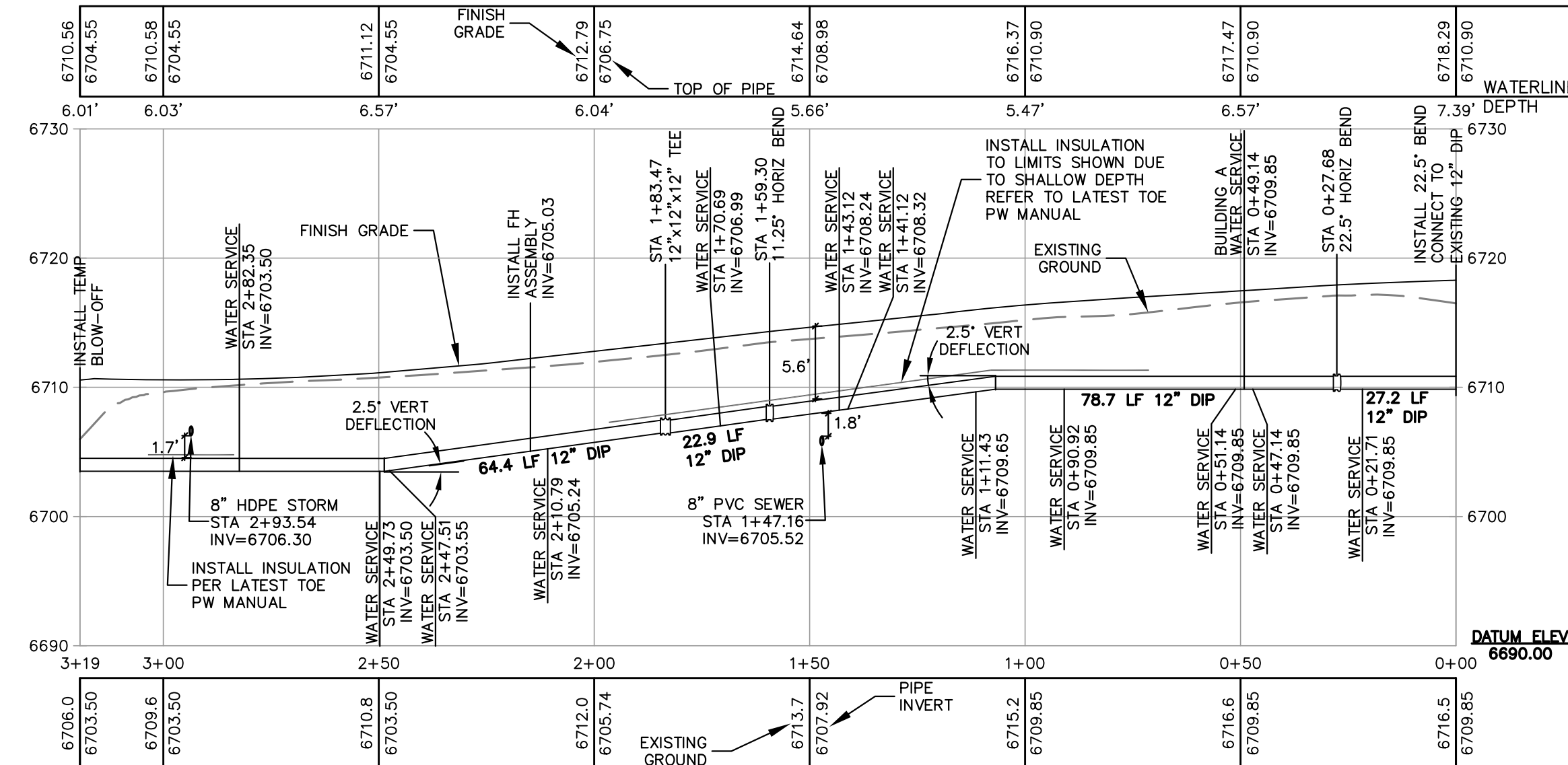


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PROFILE: WATER-RMF2

SCALE  
HORIZONTAL: 1"=30'  
VERTICAL: 1"=10'



WATER SERVICE SIZING:  
TOWNHOMES-1" TYPE K COPPER  
CONDOS-6" DIP (FIRE & DOMESTIC)

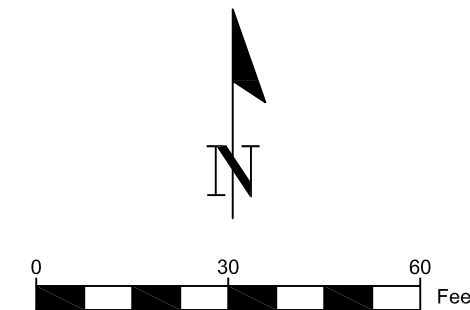
FIRE HYDRANT FLANGE ELEVATION SHALL  
BE 4" ABOVE FINISH GRADE

PER SB18-167, ALL NEW UNDERGROUND  
FACILITIES, INCLUDING SERVICE LINES, MUST  
BE ELECTRONICALLY LOCATABLE  
INSTALL TRACER WIRE TO ALL WATER MAIN  
AND SERVICE LINES

FOR ALL CROSSINGS, REFER TO SANITARY  
SEWER AND STORM SEWER SHEETS FOR PIPE  
TYPE AND/OR ENCASEMENT AND LATEST TOE  
PW MANUAL (JAN 2018) FOR SPECIFICATIONS

FOR TOE SPECIFICATIONS ON INSULATION,  
REFER TO DETAIL F, SHEET C8.04

PRELIMINARY  
April 20, 2022  
NOT FOR CONSTRUCTION



LEGEND

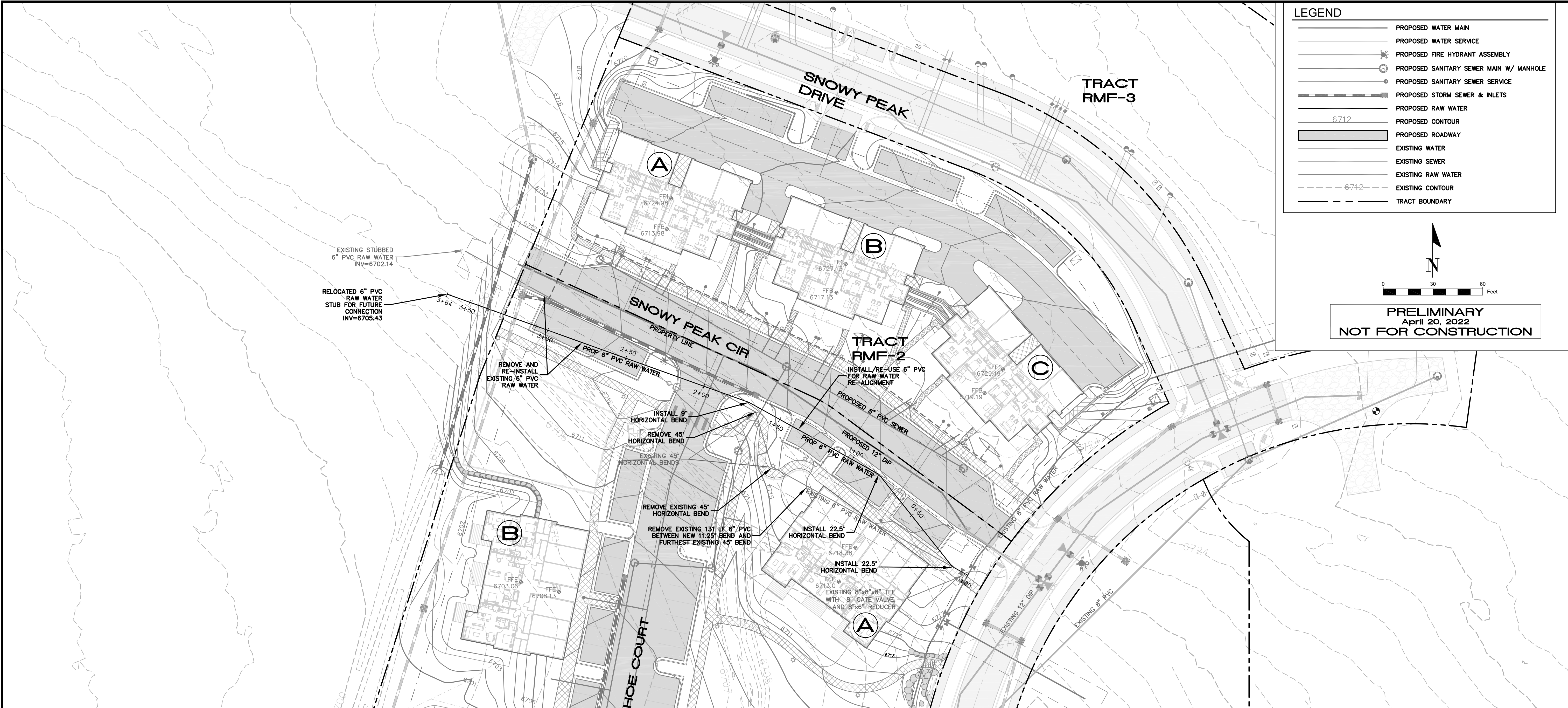
- PROPOSED WATER MAIN
- PROPOSED WATER SERVICE
- PROPOSED FIRE HYDRANT ASSEMBLY
- PROPOSED SANITARY SEWER MAIN W/ MANHOLE
- PROPOSED SANITARY SEWER SERVICE
- PROPOSED STORM SEWER & INLETS
- PROPOSED RAW WATER
- PROPOSED CONTOUR
- PROPOSED ROADWAY
- EXISTING WATER
- EXISTING SEWER
- EXISTING RAW WATER
- EXISTING CONTOUR
- TRACT BOUNDARY

NO.	DATE	REVISIONS	BY
1	01/06/2022	MAJOR DEVELOPMENT PERMIT	GLB
2	04/24/2022	MDP-RESPONSE TO COMMENTS	GLB

DESIGNED	GLB, RIF
DRAWN	GLB, RIF
CHECKED	MCW
JOB NO.	53480.5
DATE	07/24/2021

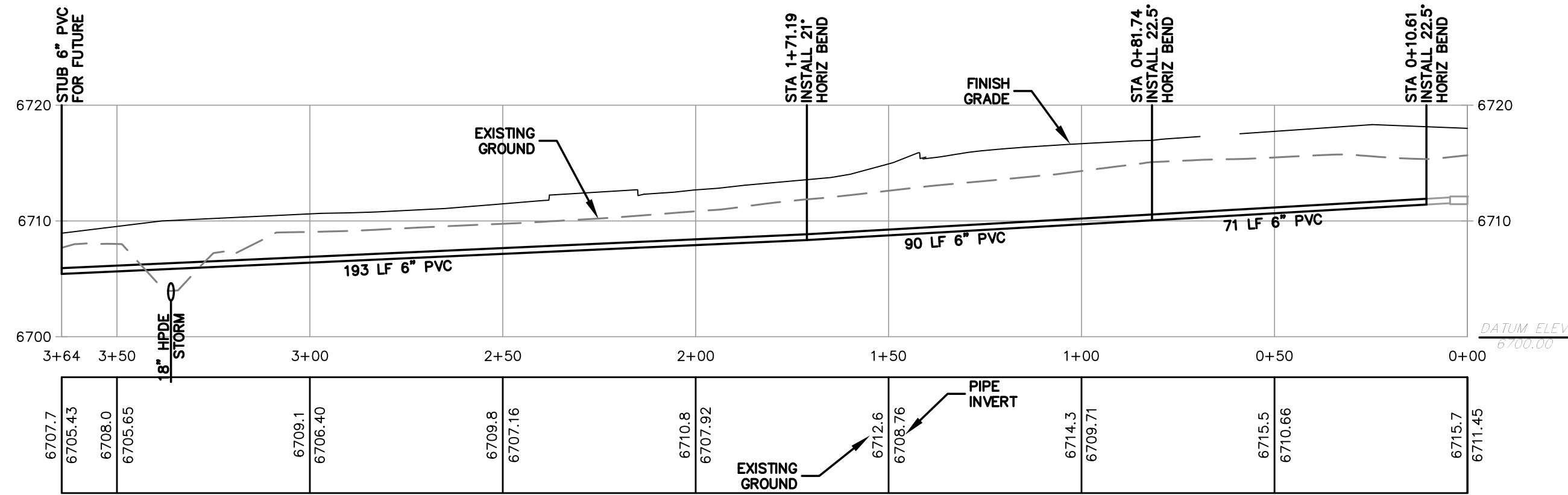


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PROFILE: EXISTING AND PROPOSED 6" RAW WATER

SCALE  
HORIZONTAL: 1" = 30'  
VERTICAL: 1" = 10'



ALPINE  
ENGINEERING INC.  
34510 HWY 6 / UNIT A9 / PO BOX 97  
EDWARDS CO 81632 / 970.926.3373  
WWW.ALPINECIVIL.COM

HAYMEADOW FILING 1  
RMF-1 & RMF-2  
RAW WATER PLAN AND PROFILE

NO.	DATE	REVISIONS	BY
1	01/06/2022	MAJOR DEVELOPMENT PERMIT	GLB
2	04/24/2022	MDP-RESPONSE TO COMMENTS	GLB

DESIGNED	GLB, RIF
DRAWN	GLB, RIF
CHECKED	MCW
JOB NO.	53480.5
DATE	07/24/2021

SHEET  
C6.01





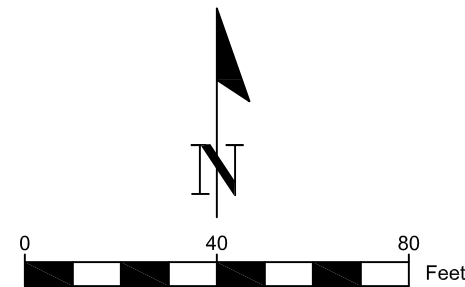


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LEGEND

- W — EROSION LOG WATTLES
- O — EROSION LOG INLET PROTECTION
- — SILT SACK INLET PROTECTION
- V — DITCH WATTLES



**PRELIMINARY**  
April 20, 2022  
**NOT FOR CONSTRUCTION**

- CONSTRUCTION SEQUENCE OF EROSION/SEDIMENT CONTROL MEASURES**  
BEFORE COMMENCING GRADING OR CONSTRUCTION
1. CONSTRUCT STABILIZED CONSTRUCTION ENTRANCES AT ALL POINTS OF INGRESS AND EGRESS.
  2. CONTRACTOR SHALL TAKE APPROPRIATE MEASURES TO ASSURE THAT NO SEDIMENT LEAVES THE SITE.
  3. CONSTRUCT SWALES, SILT FENCE AND WATTLES, AND ALL SEDIMENT CONTROL DEVICES.
  4. BEGIN EXCAVATION AND CONSTRUCTION.
  5. INSTALL EROSION CONTROL MEASURES AFTER DITCHES AND SWALES HAVE BEEN CONSTRUCTED AND TOPSOIL AND SEED HAVE BEEN PLACED. INSTALL INLET PROTECTION IN ALL INLETS AS THEY ARE CONSTRUCTED.
  6. TOPSOIL AND REVEGETATE ALL DISTURBED AREAS WITH APPROVED SEED MIX.
  7. CONTRACTOR SHALL REMOVE SEDIMENT CONTROL FACILITIES AFTER FINAL STABILIZATION.
- GENERAL NOTES FOR SEDIMENT CONTROL**
1. INSTALL AND MAINTAIN SEDIMENT CONTROL MEASURES IN ACCORDANCE WITH THESE PLANS AND AS NEEDED TO PREVENT SEDIMENT FROM DISCHARGING OFF-SITE.
  2. ALL PROPOSED SEDIMENT CONTROL MEASURES ARE TEMPORARY MEASURES UNLESS SPECIFIED OTHERWISE ON PLANS.
  3. SEDIMENT CONTROL MEASURES MAY REQUIRE FIELD ADJUSTMENTS AT THE TIME OF CONSTRUCTION TO INSURE THAT THEIR INTENDED PURPOSE IS ACCOMPLISHED.
  4. PROVIDE CONTINUOUS INSPECTION AND MAINTENANCE OF ALL SEDIMENT CONTROL MEASURES TO INSURE THAT SEDIMENT CONTROL EFFICIENCY IS OBTAINED UNTIL FINAL STABILIZATION OF SITE HAS TAKEN PLACE.
  5. INSTALL SEDIMENT CONTROL MEASURES AT THE ONSET OF GRADING OPERATIONS SO THAT EFFECTIVE SEDIMENT CONTROL CAN BE ACHIEVED DURING THE ENTIRE CONSTRUCTION PERIOD.
  6. STABILIZE ALL POINTS OF INGRESS AND EGRESS WITH CURRENT TOWN OF EAGLE PUBLIC WORKS MANUAL TRACKING PAD DETAIL DURING CONSTRUCTION TO PREVENT TRACKING OF MUD ONTO PUBLIC WAYS.
  7. FOR TEMPORARY STOCKPILES APPLY SEED, HYDROMULCH AND TACKIFIER IMMEDIATELY AFTER THEY ARE CONSTRUCTED FOR STABILIZATION. IF EROSION OCCURS AFTER APPLICATION OF THE TACKIFIER, USE EXCELSIOR C2 EROSION CONTROL FABRIC.
  8. THE TERM "REVEGETATION" ON THIS PLAN MEANS THE SUCCESSFUL GERMINATION AND ESTABLISHMENT OF STABLE GRASS COVER FROM A PROPERLY PREPARED SEEDBED CONTAINING THE SPECIFIED AMOUNTS OF FERTILIZER IN ACCORDANCE WITH APPLICABLE "STANDARDS AND SPECIFICATIONS". REFER TO LANDSCAPE PLANS FOR SEED MIX, FERTILIZER TYPE, MULCH, TACKIFIER AND APPLICATION RATES.
  9. APPROVAL SHALL BE REQUESTED UPON FINAL STABILIZATION OF ALL SITES BEFORE REMOVAL OF SEDIMENT CONTROLS.
  10. CONTRACTOR SHALL OBTAIN AND CONFORM TO STORMWATER DISCHARGE PERMIT AND FUGITIVE DUST PLAN AND KEEP STREETS CLEAN AND FREE OF SEDIMENT.

- FUGITIVE DUST CONTROL**  
THE CONTRACTOR IS RESPONSIBLE TO CONTROL FUGITIVE DUST AND TO INCORPORATE THE FOLLOWING:
1. ALL UNPAVED ROADS AND OTHER DISTURBED AREAS ON SITE SHALL BE WATERED TO MINIMIZE FUGITIVE DUST.
  2. HAUL ROADS SHALL BE TREATED WITH MAGNESIUM CHLORIDE IF WATER IS NOT CONTROLLING THE DUST.
  3. ALL DISTURBED SURFACE AREAS SHALL BE REVEGETATED OR SURFACED PER THE LANDSCAPE PLAN AS SOON AS POSSIBLE.
  4. MUD AND DIRT CARRYOUT ONTO PAVED SURFACES SHALL BE PREVENTED. ANY MUD AND DIRT CARRYOUT ONTO PAVED SURFACES SHALL BE CLEANED UP DAILY.

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# HAYMEADOW FILING 1

## RMF-1 & RMF-2

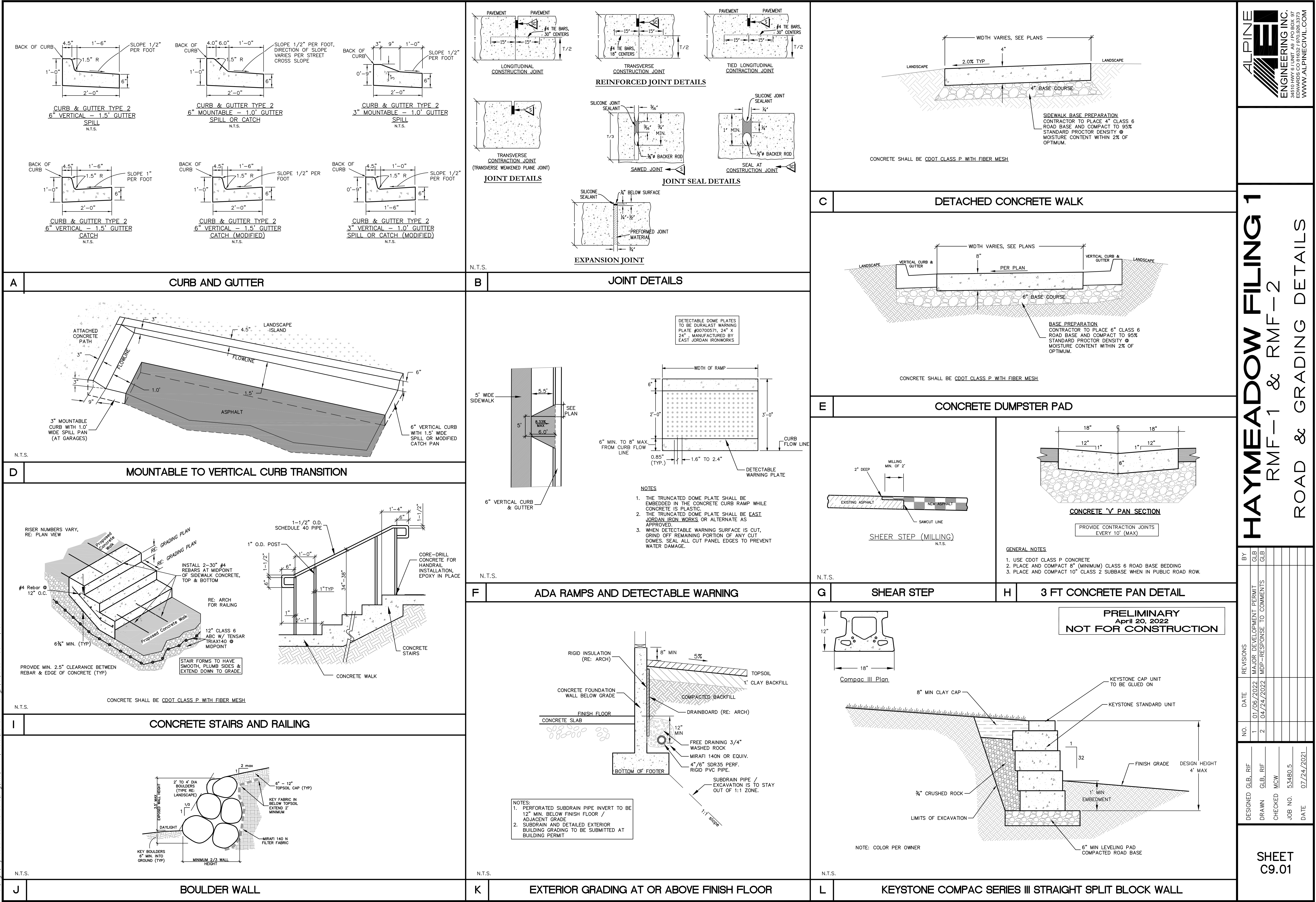
### SEDIMENT CONTROL PLAN

DESIGNED	GLB, RIF	DATE	REVISIONS	BY
DRAWN	GLB, RIF	01/06/2022	MAJOR DEVELOPMENT PERMIT	GLB
CHECKED	MCW	04/24/2022	MDP-RESPONSE TO COMMENTS	GLB
JOB NO.	53480.5			
DATE	07/24/2021			

**SHEET**  
C8.01



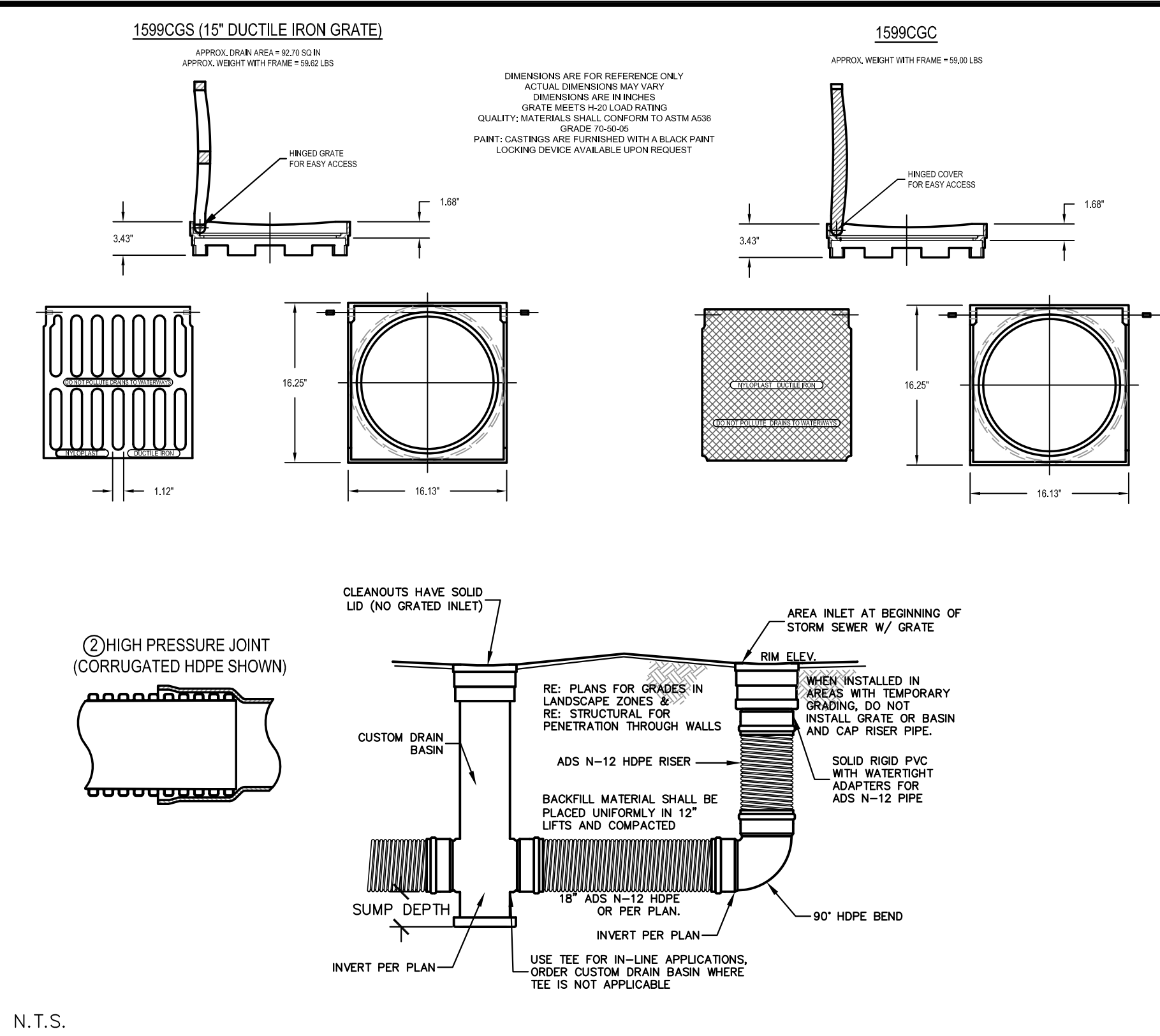
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<div><div>ALPINE</div><div>ENGINEERING INC.</div><div>34510 HWY 6 / UNIT A9 / P.O. BOX 97</div><div>EDWARDS CO 81632 / 970.926.3373</div><div>WWW.ALPINECIVIL.COM</div></div>		<div><div>HAYMEADOW FILING 1</div><div>RMF-1 &amp; RMF-2</div><div>ROAD &amp; GRADING DETAILS</div></div>	
DESIGNED	GLB, RIF	BY	GLB
DRAWN	GLB, RIF	REVISIONS	GLB
CHECKED	MCW	DATE	
JOB NO.	53480.5	NO.	
DATE	07/24/2021	1	01/06/2022
		2	04/24/2022
			MDP-RESPONSE TO COMMENTS

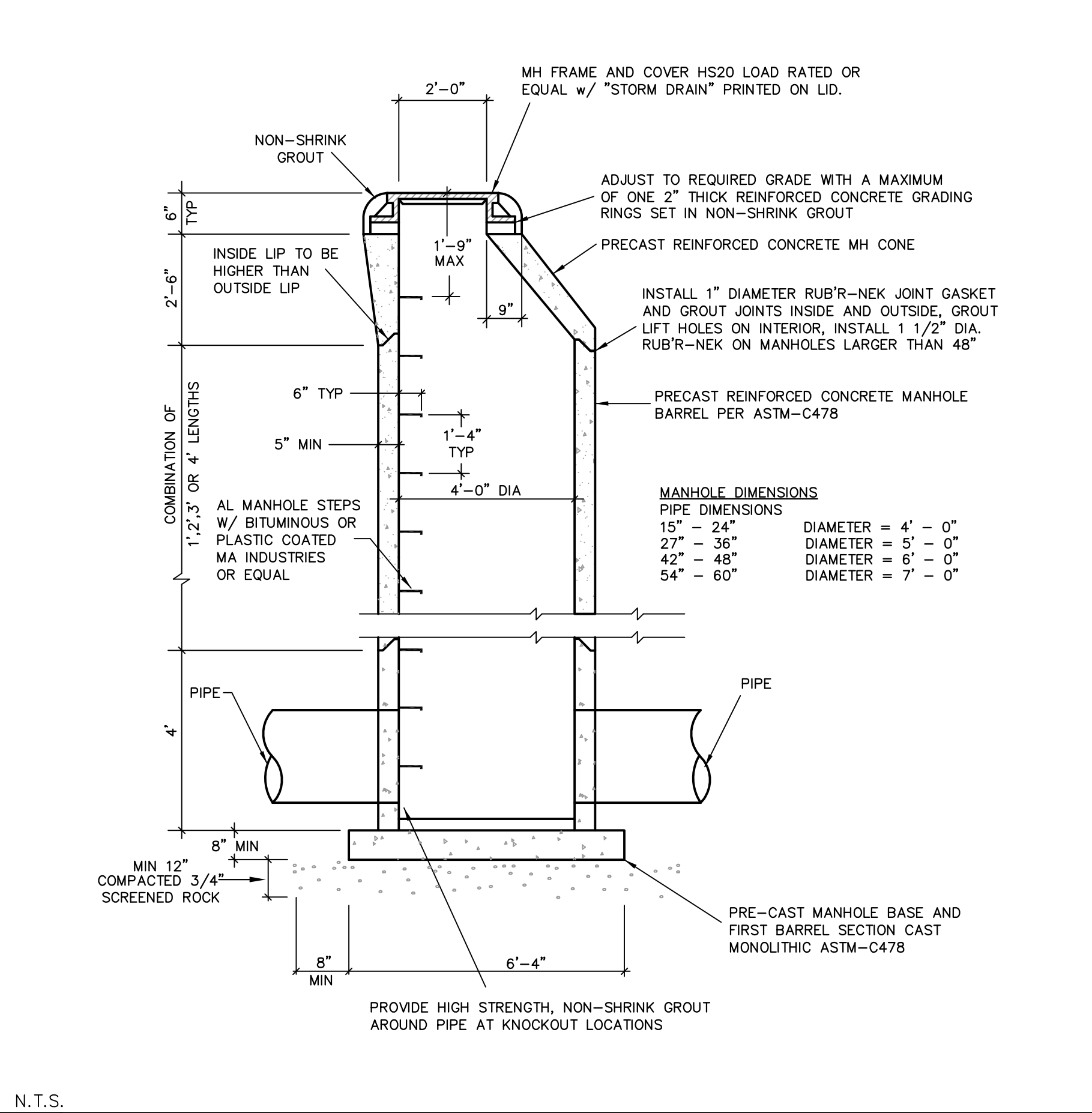


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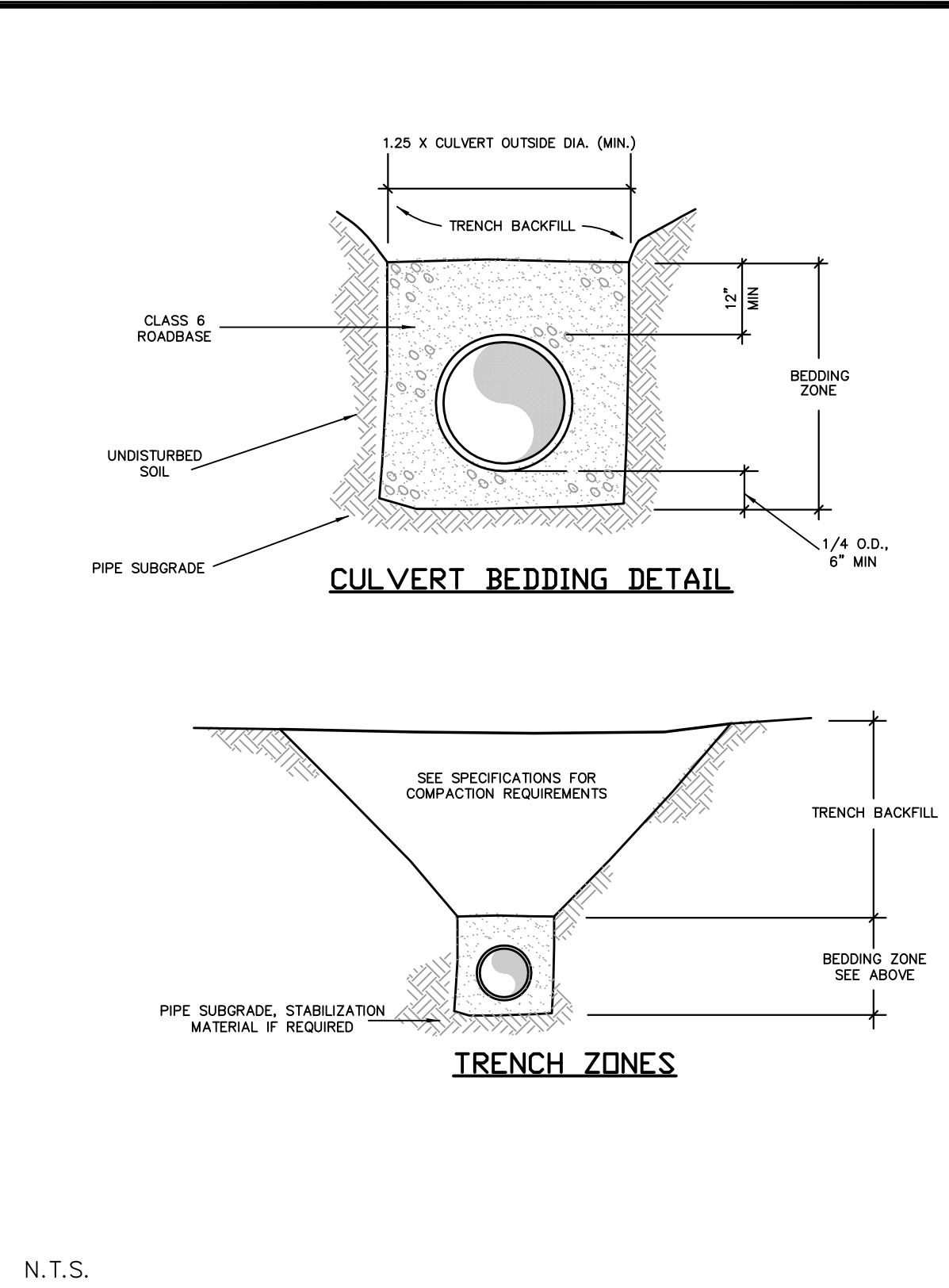
N.T.S.

A NYLOPLAST AREA INLETS (15')



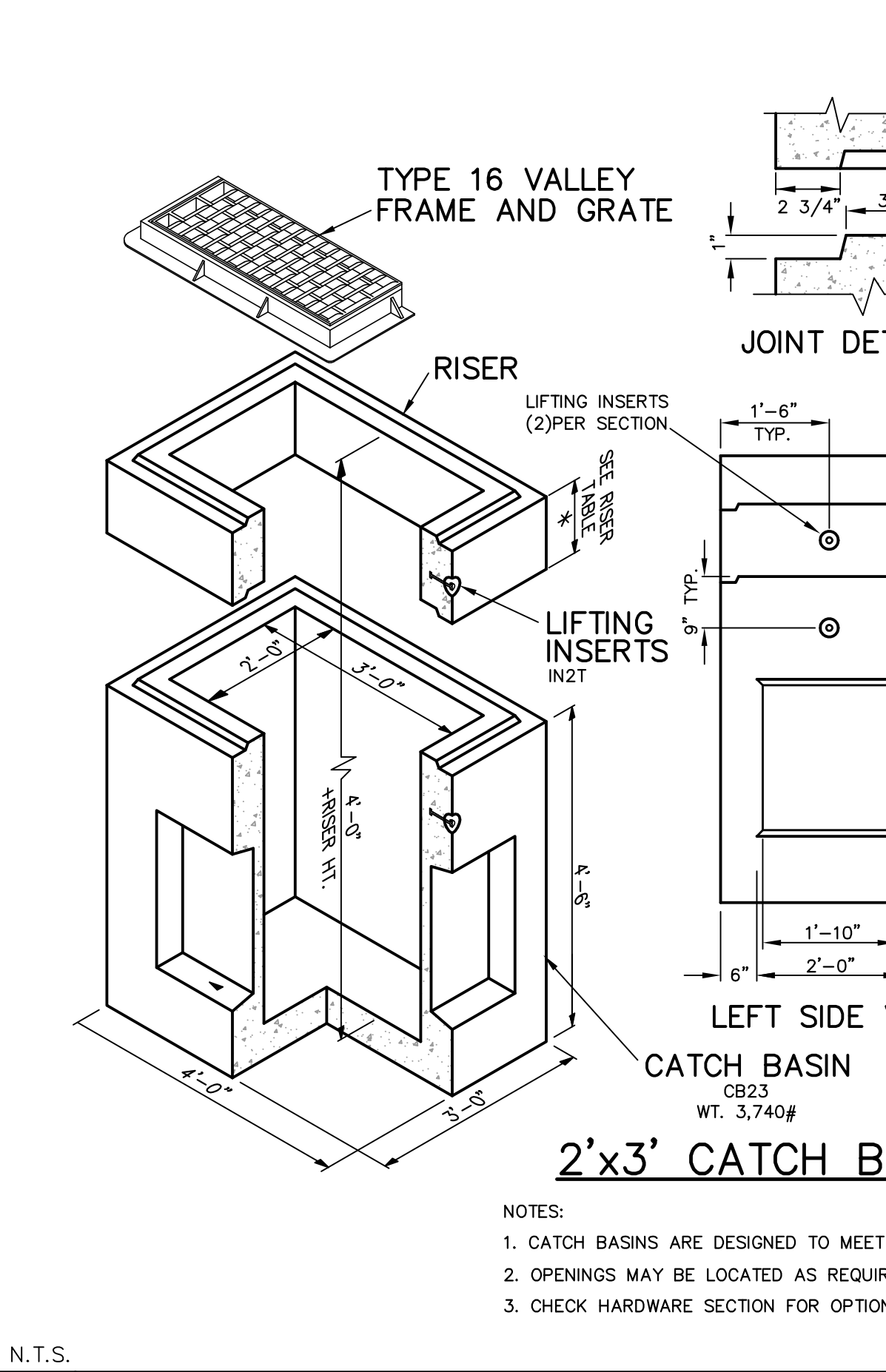
N.T.S.

D STORM SEWER MANHOLE



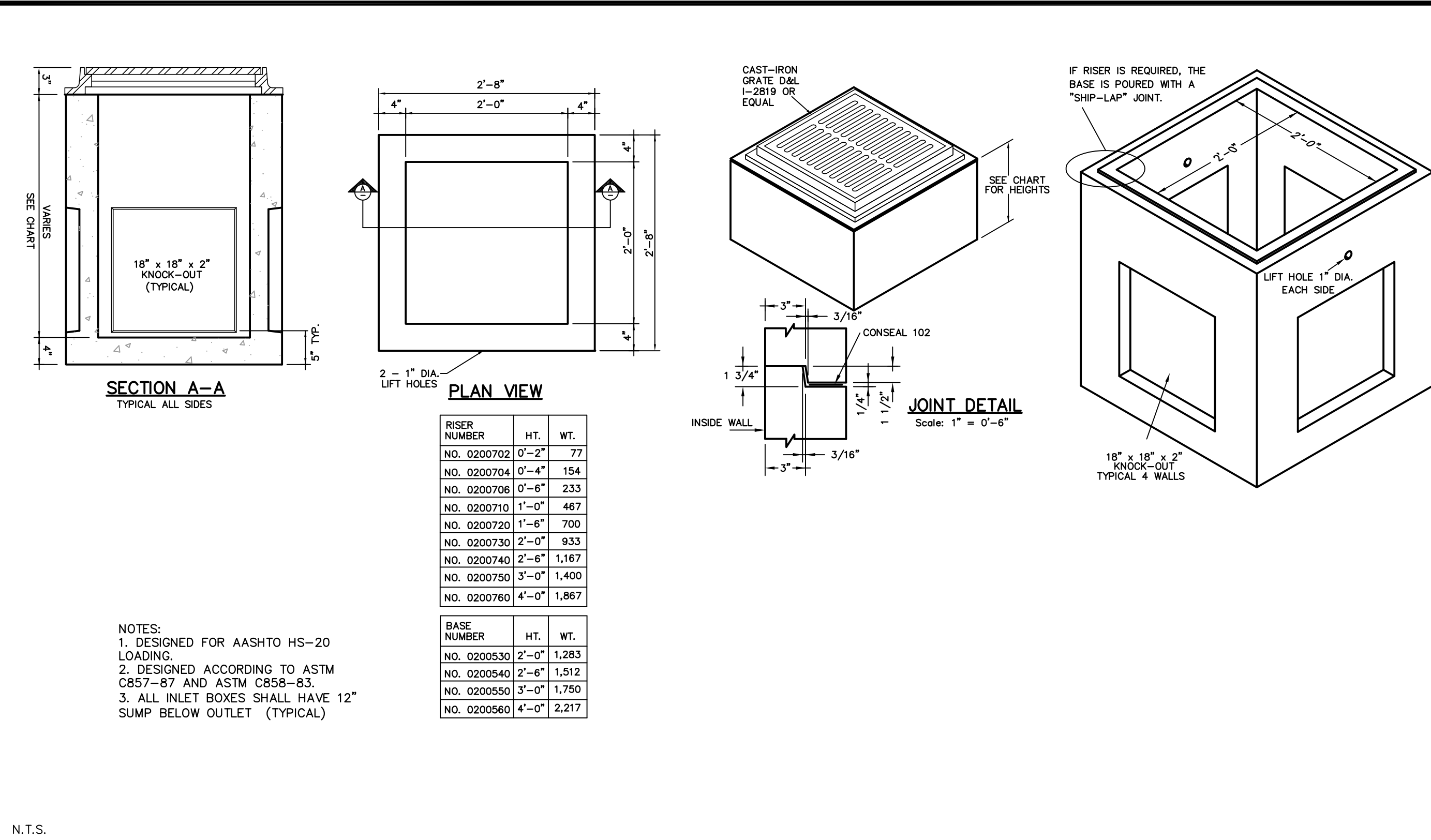
N.T.S.

B CULVERT BEDDING DETAIL



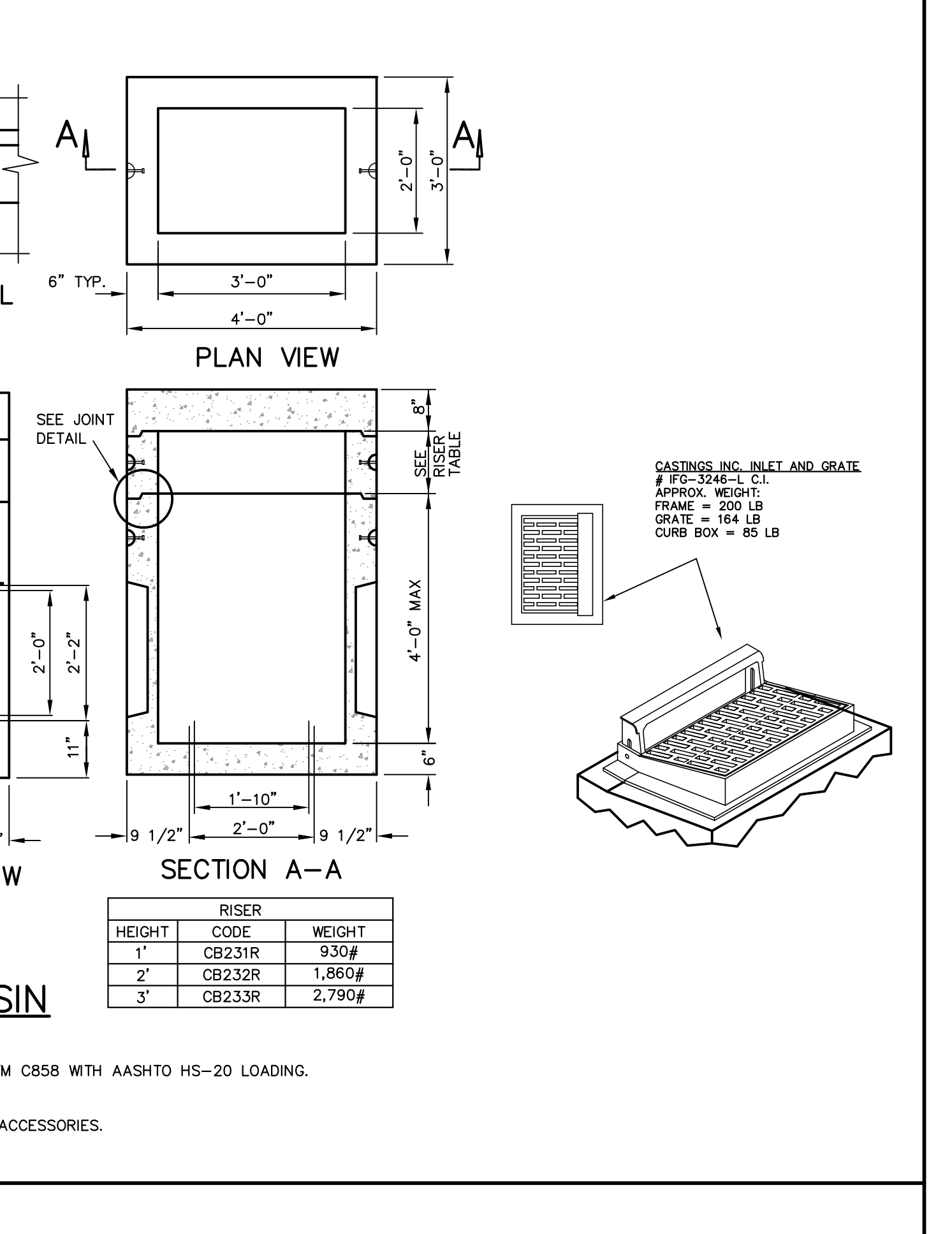
N.T.S.

E 2' x 3' INLET



N.T.S.

C 2'x2' INLET



HAYMEADOW FILING 1  
RMF-1 & RMF-2  
STORM DETAILS

NO.	DATE	REVISIONS	BY
1	01/06/2022	MAJOR DEVELOPMENT PERMIT	GLB
2	04/24/2022	MDP-RESPONSE TO COMMENTS	GLB

DESIGNED	GLB, RIF
DRAWN	GLB, RIF
CHECKED	MCW
JOB NO.	53480.5
DATE	07/24/2021

PRELIMINARY  
April 20, 2022  
NOT FOR CONSTRUCTION

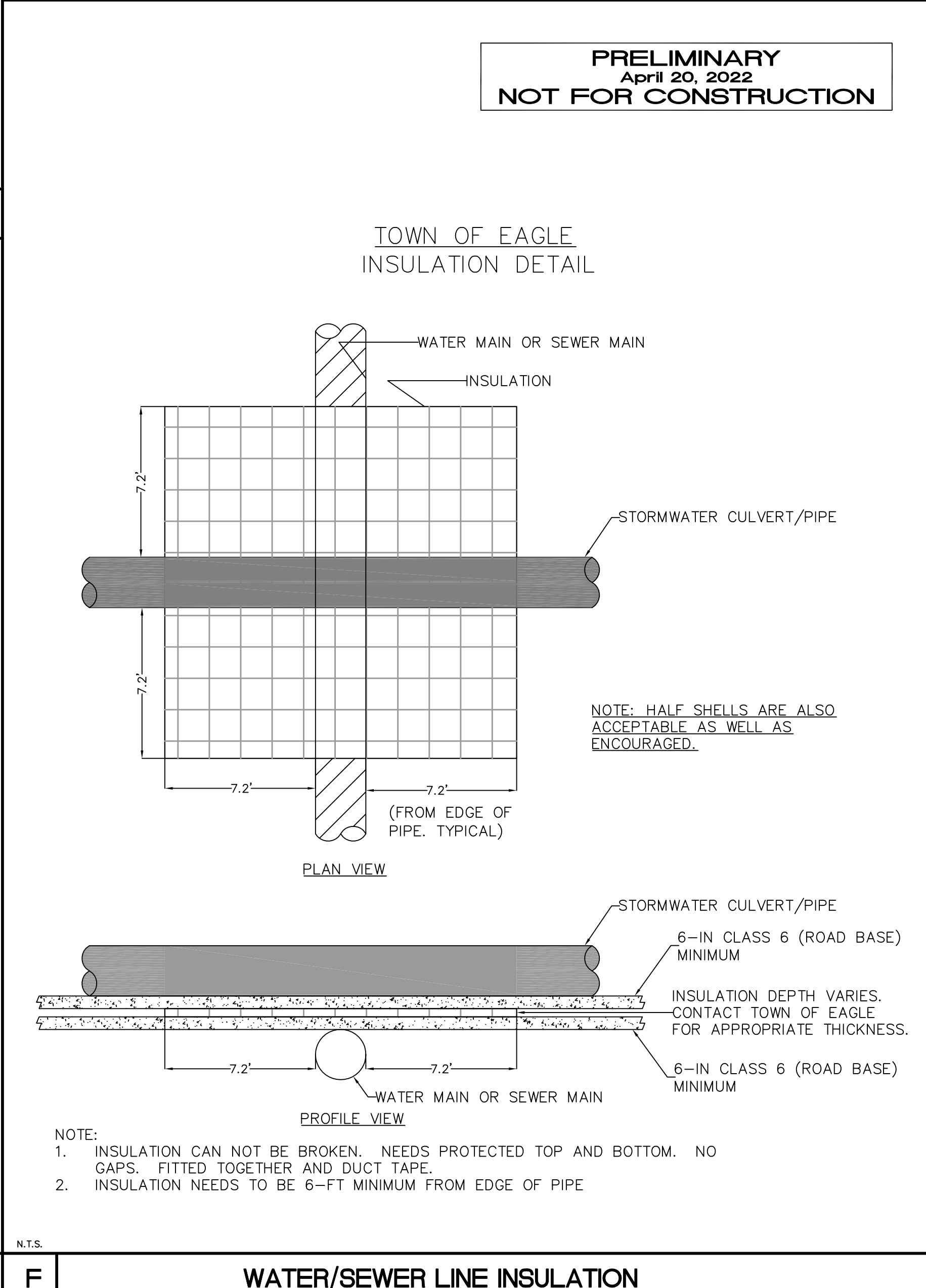
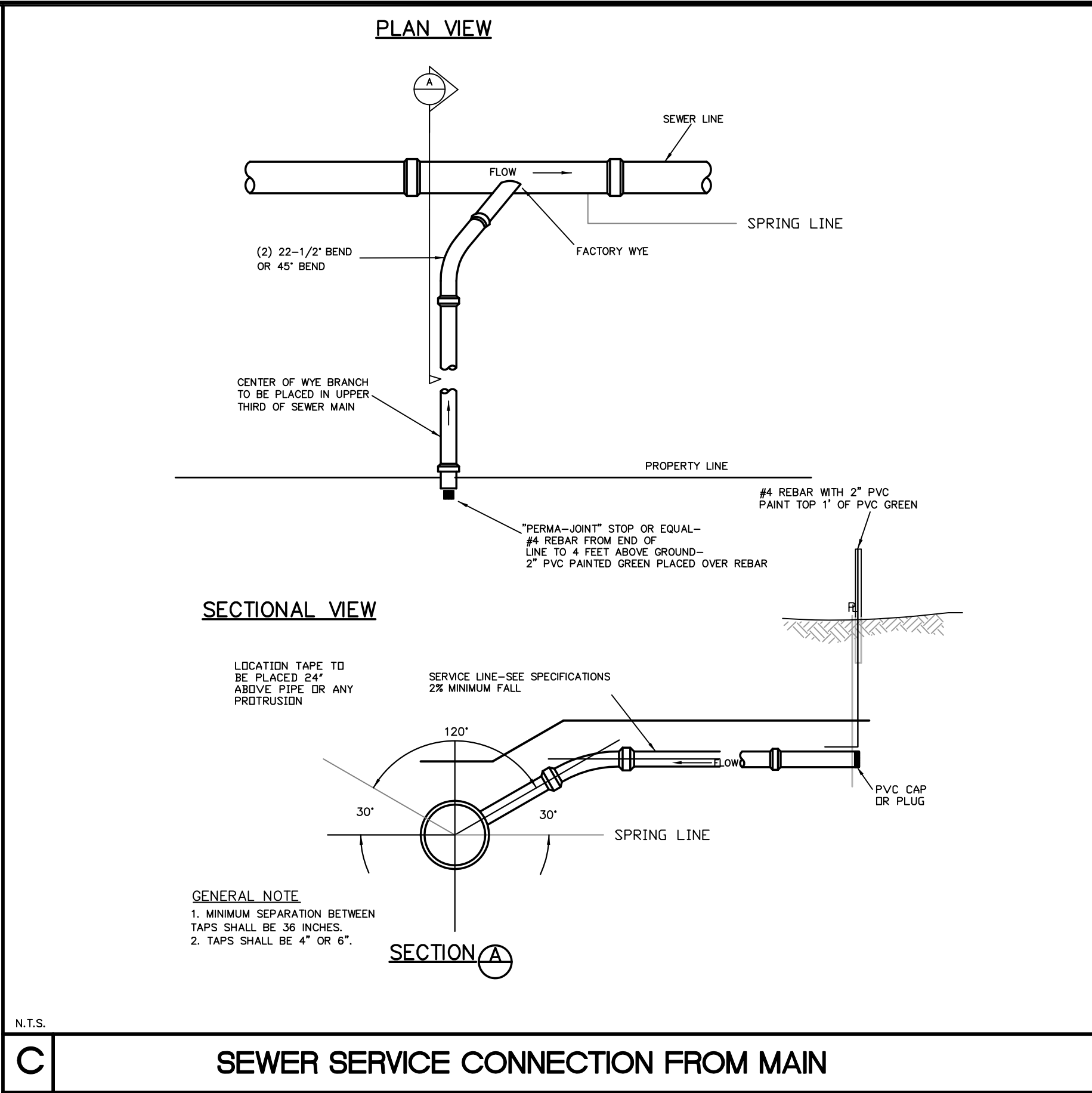
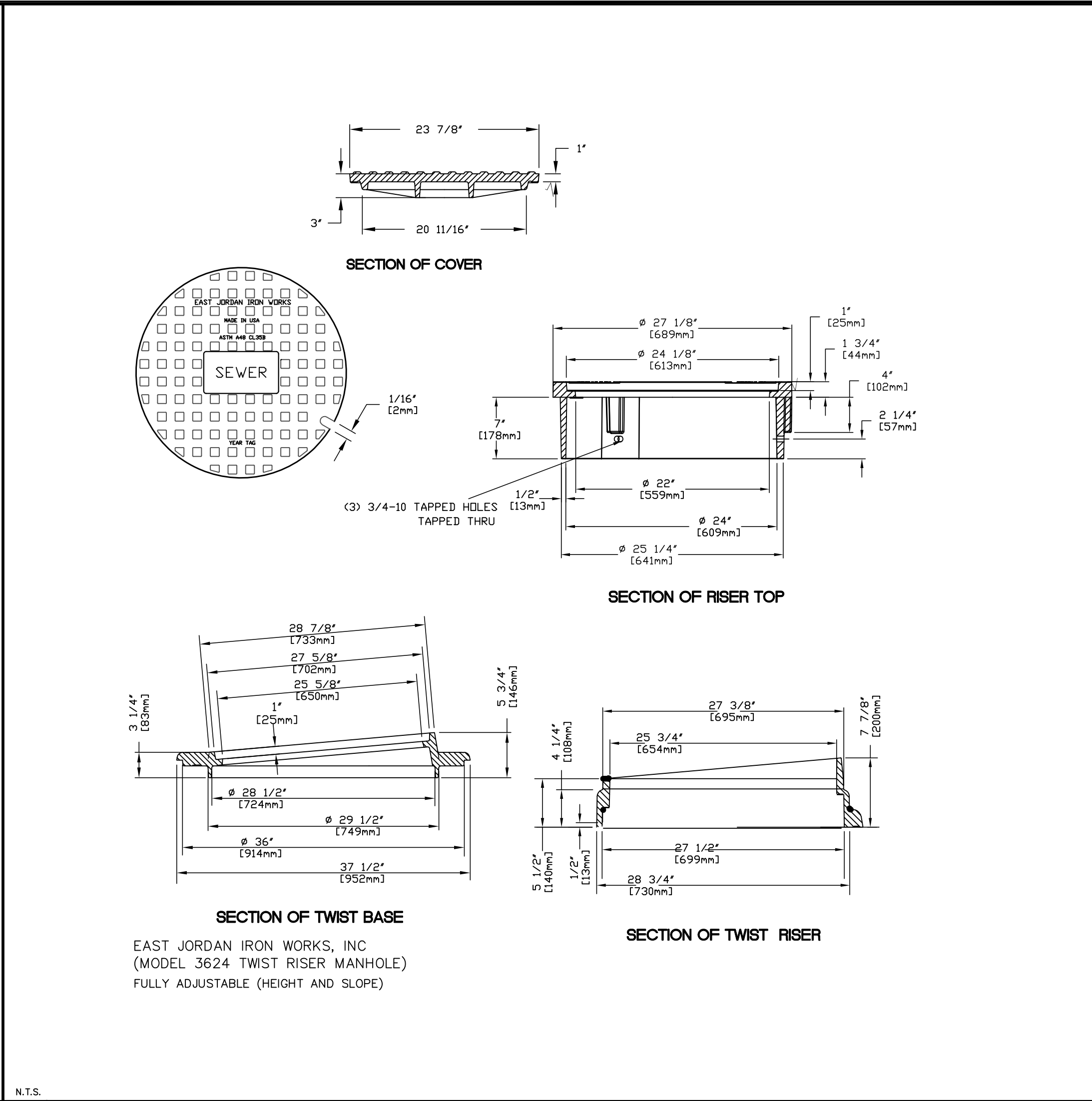
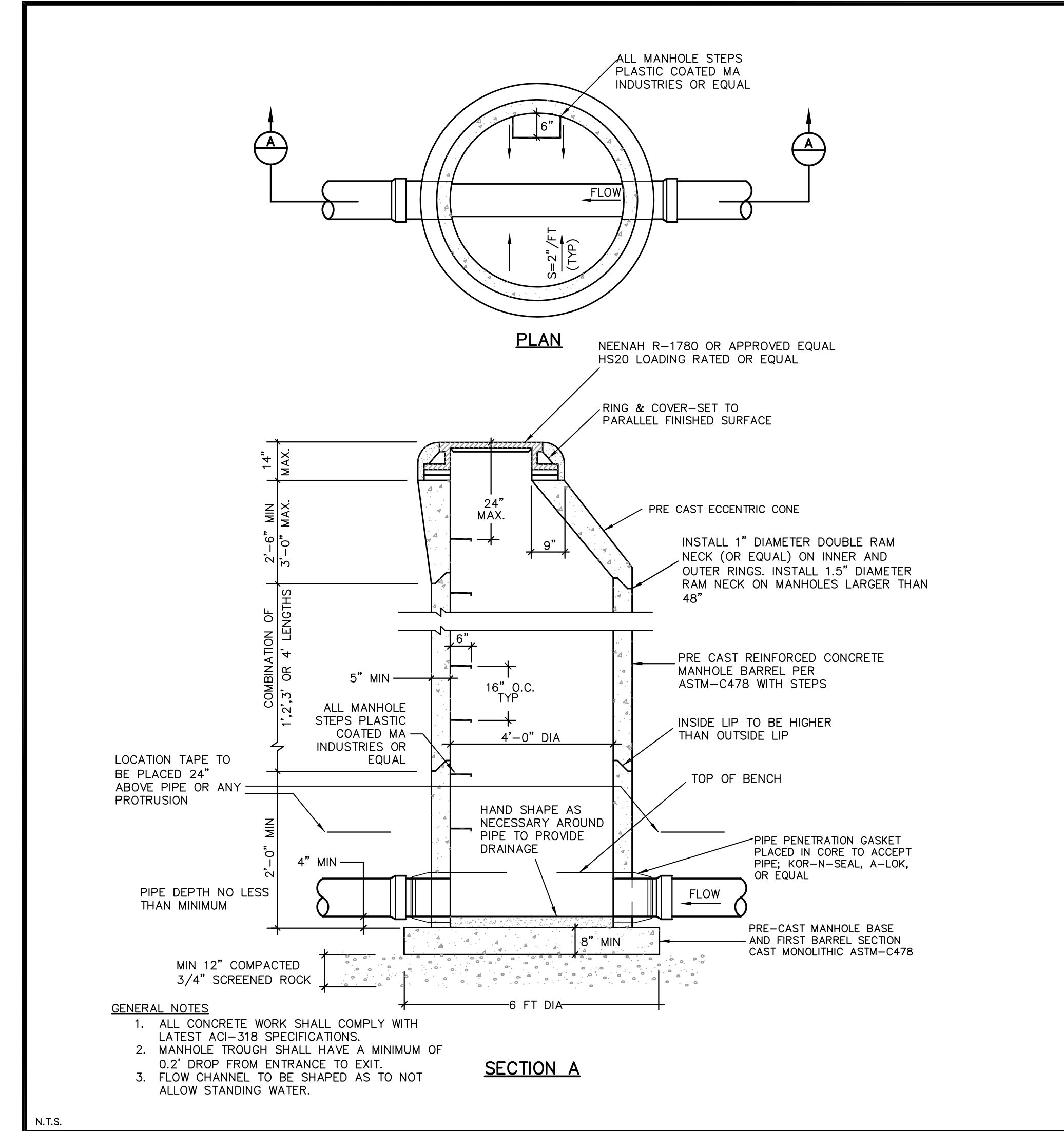
SHEET  
C9.02







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# HAYMEADOW FILING 1

## RMF-1 & RMF-2

### UTILITY DETAILS

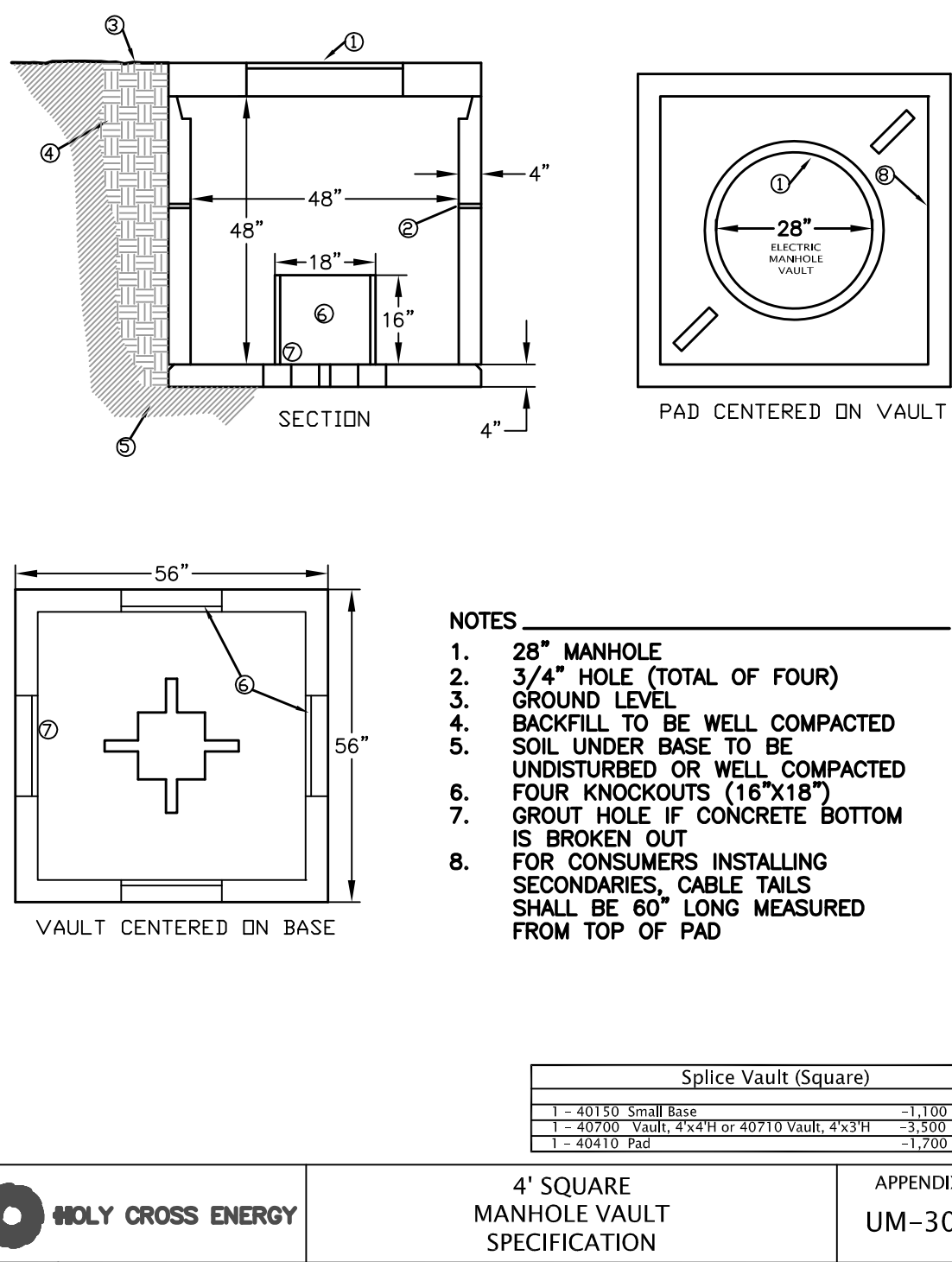
NO.	DATE	REVISIONS	BY
1	01/06/2022	MAJOR DEVELOPMENT PERMIT	GLB
2	04/24/2022	MDP-RESPONSE TO COMMENTS	GLB

DESIGNED	GLB, RIF
DRAWN	GLB, RIF
CHECKED	MCW
JOB NO.	53480.5
DATE	07/24/2021

**SHEET**  
**C9.04**



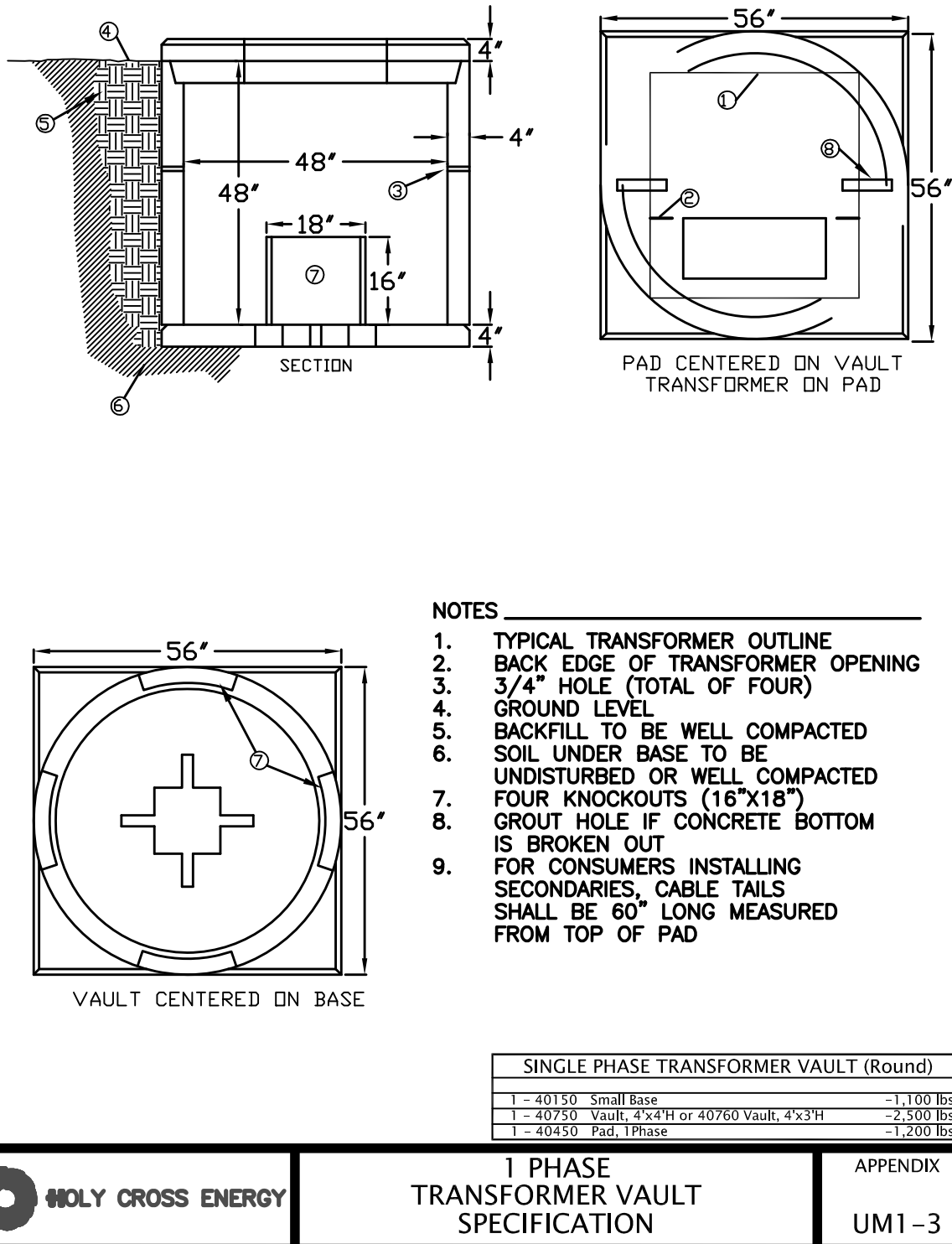
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- NOTES
- 28" MANHOLE
  - 3/4" HOLE (TOTAL OF FOUR)
  - GROUND LEVEL
  - BACKFILL TO BE WELL COMPACTED
  - SOIL UNDER BASE TO BE UNDISTURBED OR WELL COMPACTED
  - FOUR KNOCKOUTS (16"x18")
  - GROUT HOLE IF CONCRETE BOTTOM IS BROKEN OUT
  - FOR CONSUMERS INSTALLING SECONDARIES, CABLE TAILS SHALL BE 60" LONG MEASURED FROM TOP OF PAD

Splice Vault (Square)	
1 - 40150 Small Base	~1,100 lbs
1 - 40900 Vault, 4" x 3" x 3"	~2,500 lbs
1 - 40410 Pad	~1,200 lbs

4' SQUARE MANHOLE VAULT SPECIFICATION  
APPENDIX UM-30S



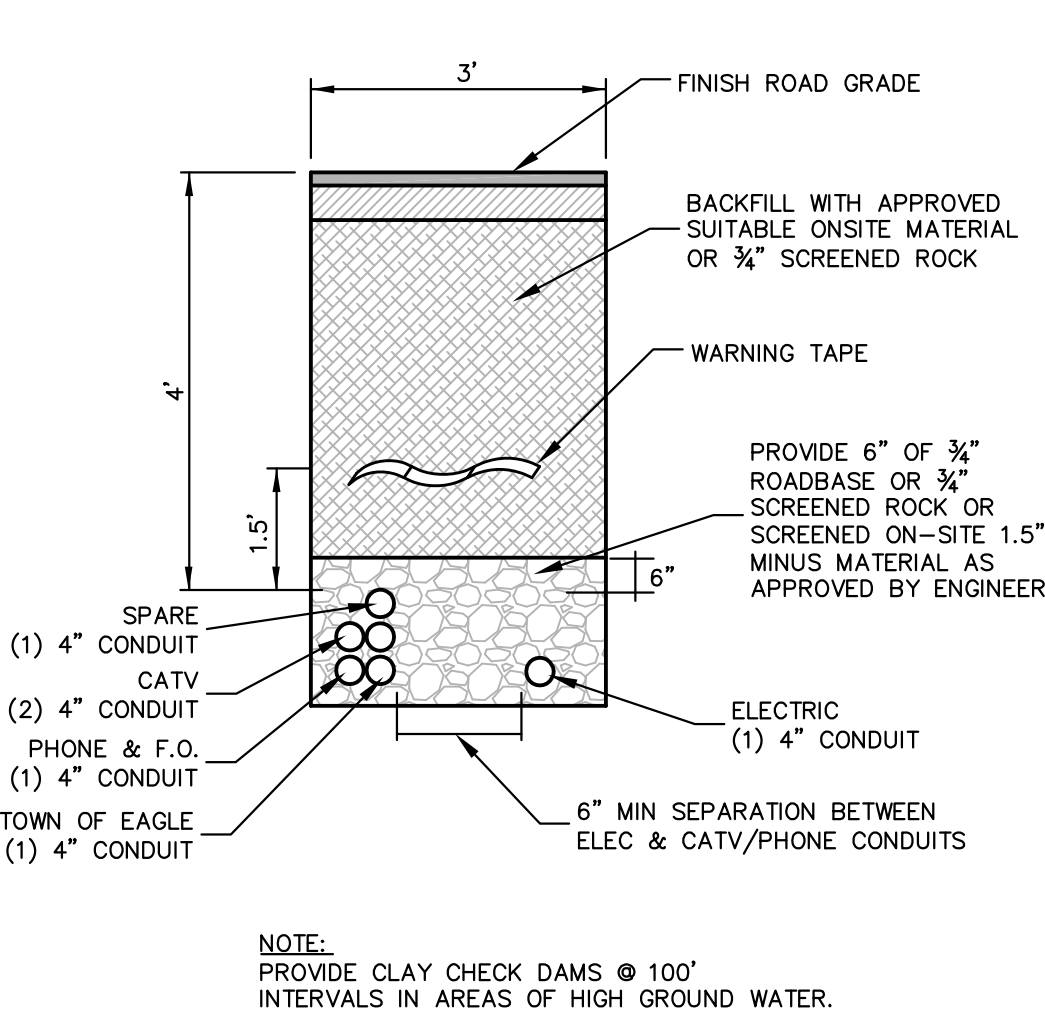
- NOTES
- TYPICAL TRANSFORMER OUTLINE
  - BACK EDGE OF TRANSFORMER OPENING
  - 3/4" HOLE (TOTAL OF FOUR)
  - GROUND LEVEL
  - BACKFILL TO BE WELL COMPACTED
  - SOIL UNDER BASE TO BE UNDISTURBED OR WELL COMPACTED
  - FOUR KNOCKOUTS (16"x18")
  - GROUT HOLE IF CONCRETE BOTTOM IS BROKEN OUT
  - FOR CONSUMERS INSTALLING SECONDARIES, CABLE TAILS SHALL BE 60" LONG MEASURED FROM TOP OF PAD

SINGLE PHASE TRANSFORMER VAULT (Round)	
1 - 40150 Small Base	~1,100 lbs
1 - 40900 Vault, 4" x 3" x 3"	~2,500 lbs
1 - 40450 Pad, 1 Phase	~1,200 lbs

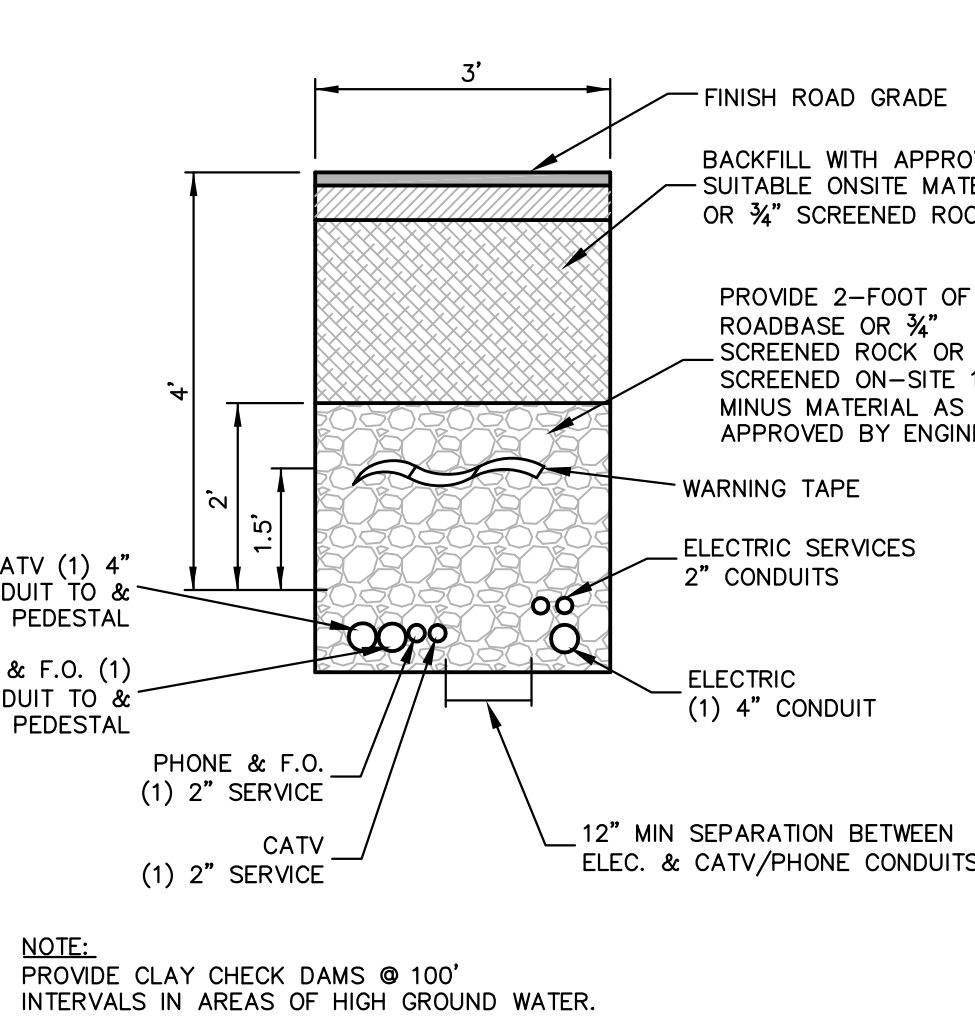
1 PHASE TRANSFORMER VAULT SPECIFICATION  
APPENDIX UM1-3

PRELIMINARY  
April 20, 2022  
NOT FOR CONSTRUCTION

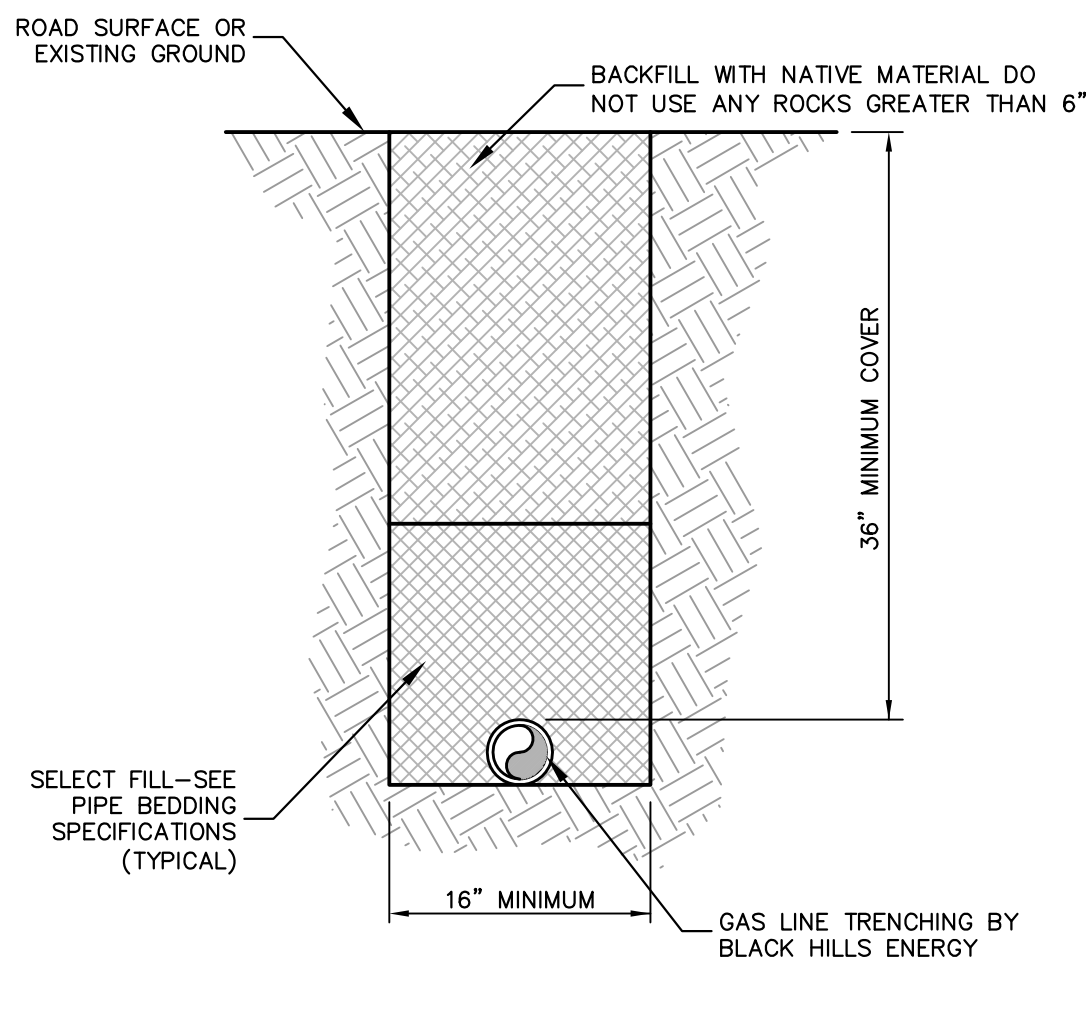
## ELECTRIC VAULTS



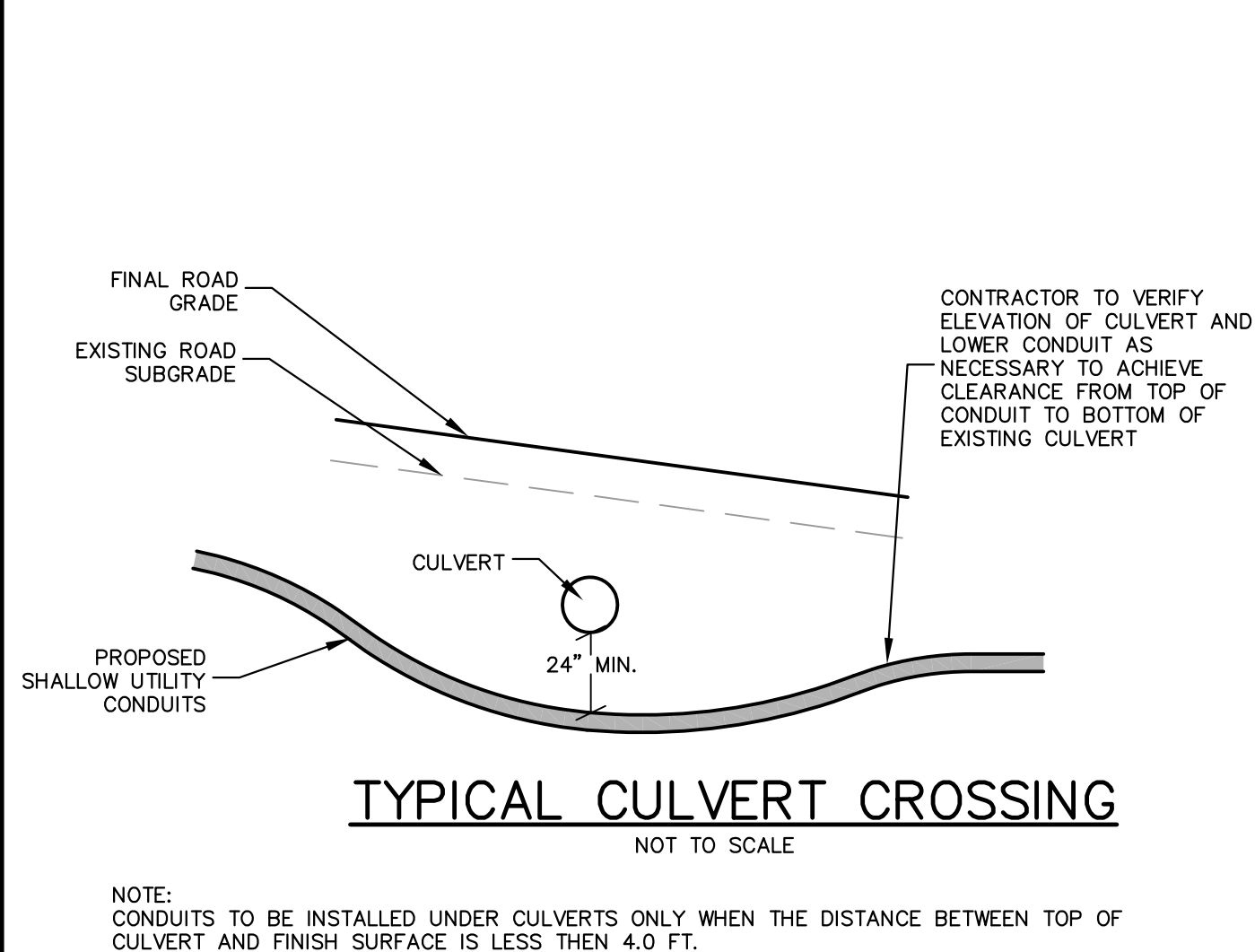
TYPICAL MAIN JOINT TRENCH



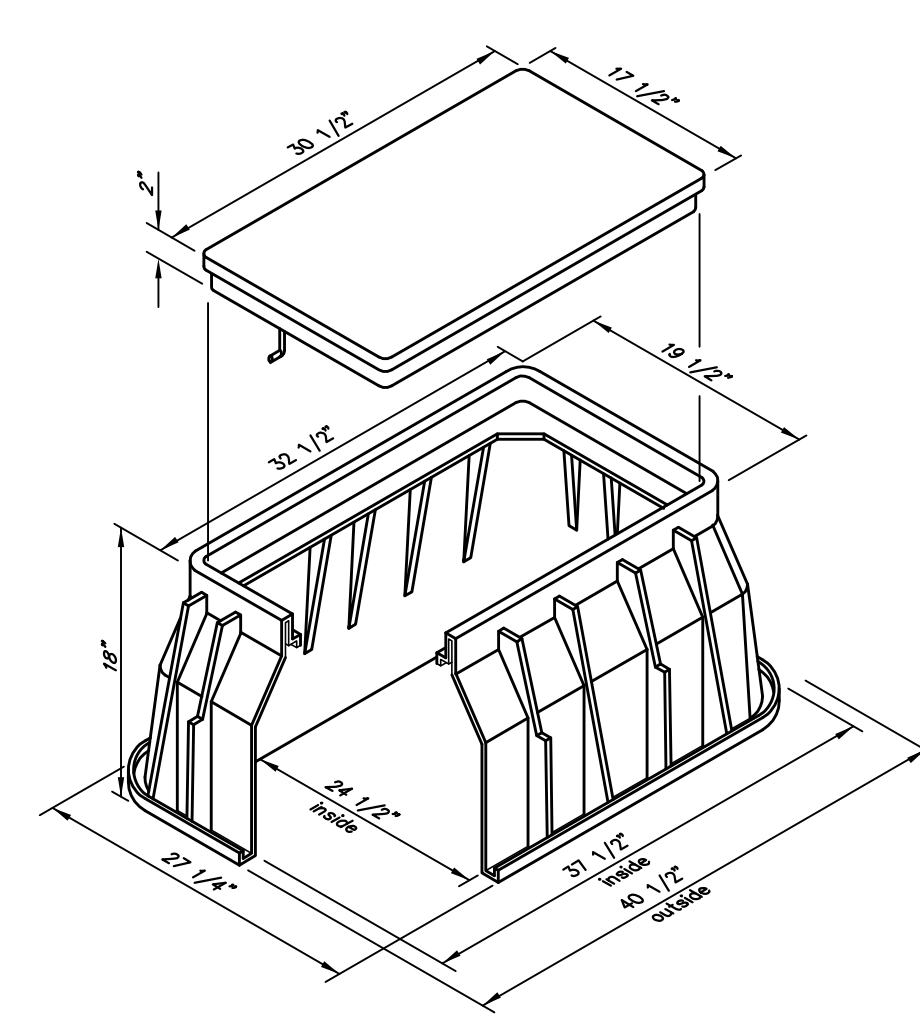
TYPICAL JOINT TRENCH MAINLINE WITH JOINT TRENCH SERVICE LINE SECTION



TYPICAL GAS TRENCH



TYPICAL CULVERT CROSSING  
NOT TO SCALE

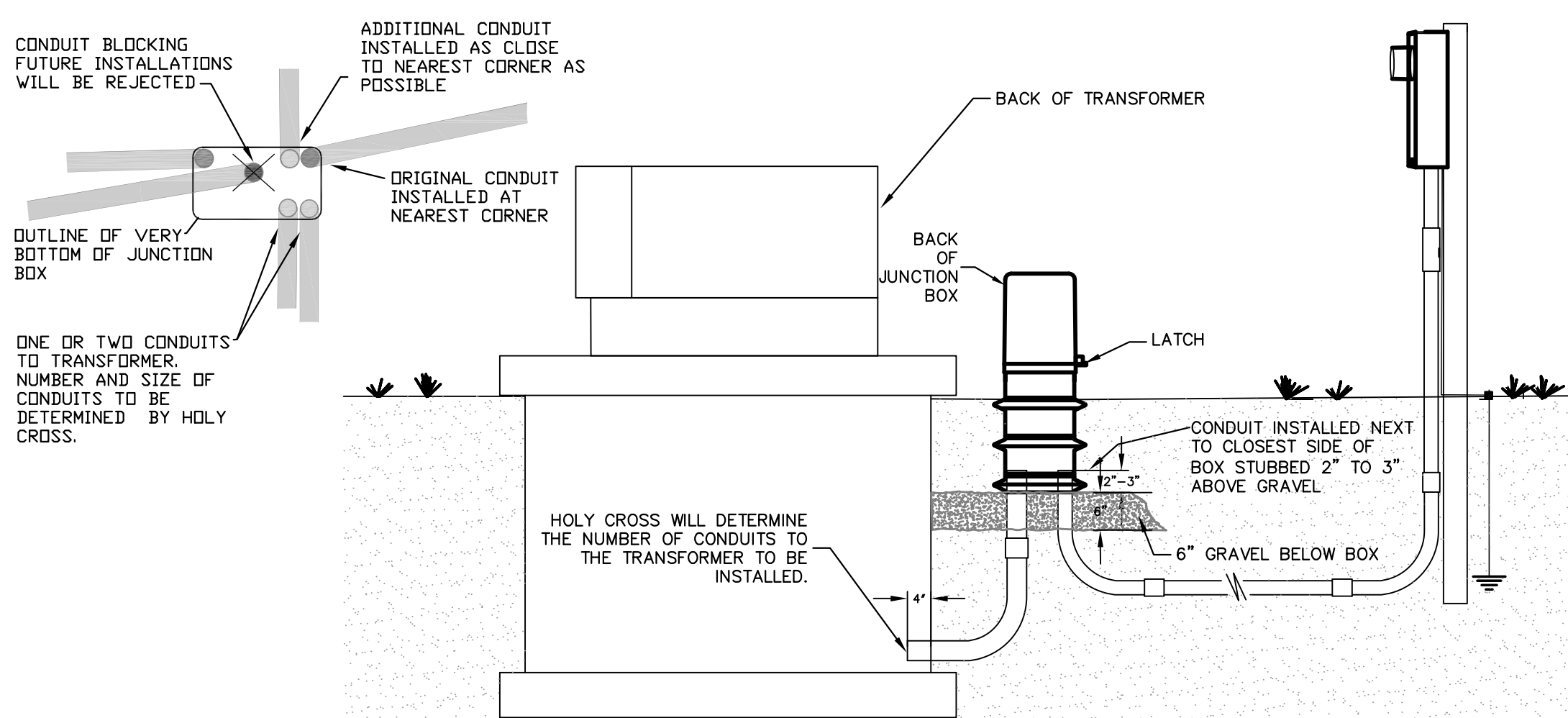


NOTE: USE 3'x4' SIZE HANDHOLE FOR COMMUNICATIONS SPLICING VAULT

## TRENCHING DETAILS

### SHALLOW UTILITY NOTES

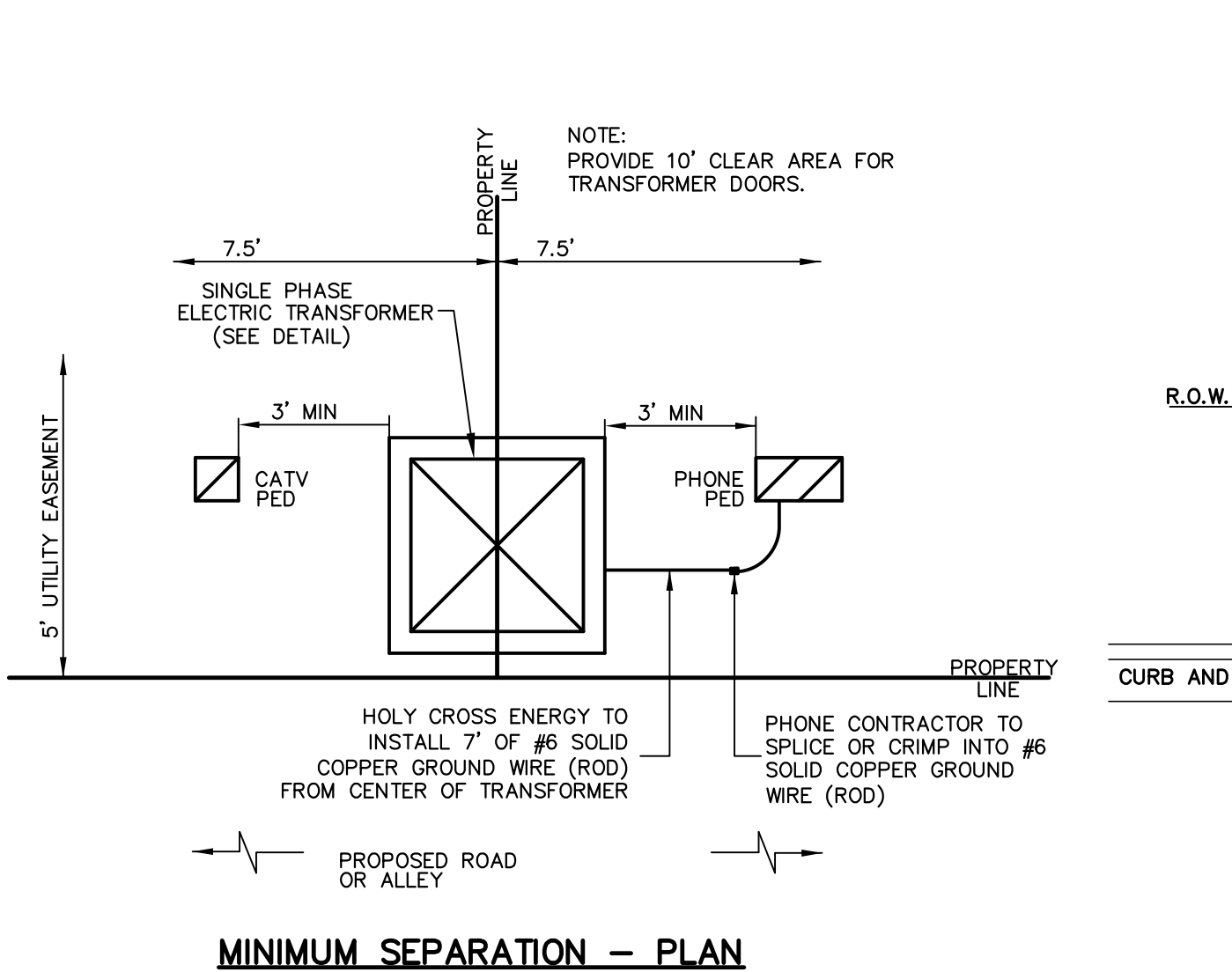
- ALL 90° BENDS IN CONDUIT SHALL HAVE A MINIMUM OF A 3' RADIUS. ALL 90° BENDS IN FIBER OPTIC CONDUIT SHALL HAVE A MINIMUM OF A 6' RADIUS.
- TRENCHES WITHIN ROADWAY PRISMS SHALL BE BACKFILLED AND COMPACTED TO 95% STANDARD PROCTOR. TRENCHES OUTSIDE ROADWAY PRISMS SHALL BE COMPACTED TO 90% STANDARD PROCTOR.
- WHEN FOUR OR MORE CONDUITS ARE REQUIRED IN THE SAME TRENCH, INCREASE THE TRENCH WIDTH TO PROVIDE 1' SEPARATION BETWEEN ELECTRIC AND TELEPHONE CONDUITS.
- SELECT FILL DENOTES NATIVE MATERIAL WITH NO ROCKS LARGER THAN 2" IN DIAMETER AND APPROVED BY THE ENGINEER. IF NO SELECT FILL EXISTS ON SITE, CONTRACTOR TO USE ROAD BASE.
- PROVIDE 2' OF SELECT BACK FILL ABOVE CONDUITS AND LAY WARNING TAPE AS REQUIRED BY THE UTILITY COMPANIES.
- PROVIDE 10' CLEAR AREA FOR ELECTRIC TRANSFORMER DOORS.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE CONSTRUCTION WITH ALL SHALLOW UTILITY COMPANIES AND TO HAVE ALL WORK DONE BY THE CONTRACTOR APPROVED AND ACCEPTED BY EACH RESPECTIVE SHALLOW UTILITY COMPANY.
- THE CONTRACTOR SHALL INSTALL ALL CONDUITS, VAULTS, PADS, PULL BOXES, PULL STRINGS, AND WATER CONTROL CABLES. THE GAS LINES, TRANSFORMERS, SWITCH GEARS, AND ALL OTHER CABLES TO BE INSTALLED BY THE RESPECTIVE UTILITY COMPANY.
- THE CONTRACTOR SHALL INSTALL CONDUITS FOR THE ELECTRIC AND PHONE LINES AS SHOWN ON THE PLANS.
- ALL WORK SHALL COMPLY TO THE INDIVIDUAL SHALLOW UTILITY COMPANY'S RULES AND REGULATIONS.
- THE CONTRACTOR SHALL REPAIR AND/OR REPLACE EXISTING UNDERDRAINS DISTURBED BY CONSTRUCTION TO THE SATISFACTION OF THE ENGINEER.
- THE CONTRACTOR SHALL INSTALL PULL STRINGS IN ALL CONDUITS WITH THE EXCEPTION OF JOINT TRENCH LOT SERVICE STUBS.



N.T.S.

HCE JUNCTION BOX DETAIL

## CULVERT CROSSING DETAIL

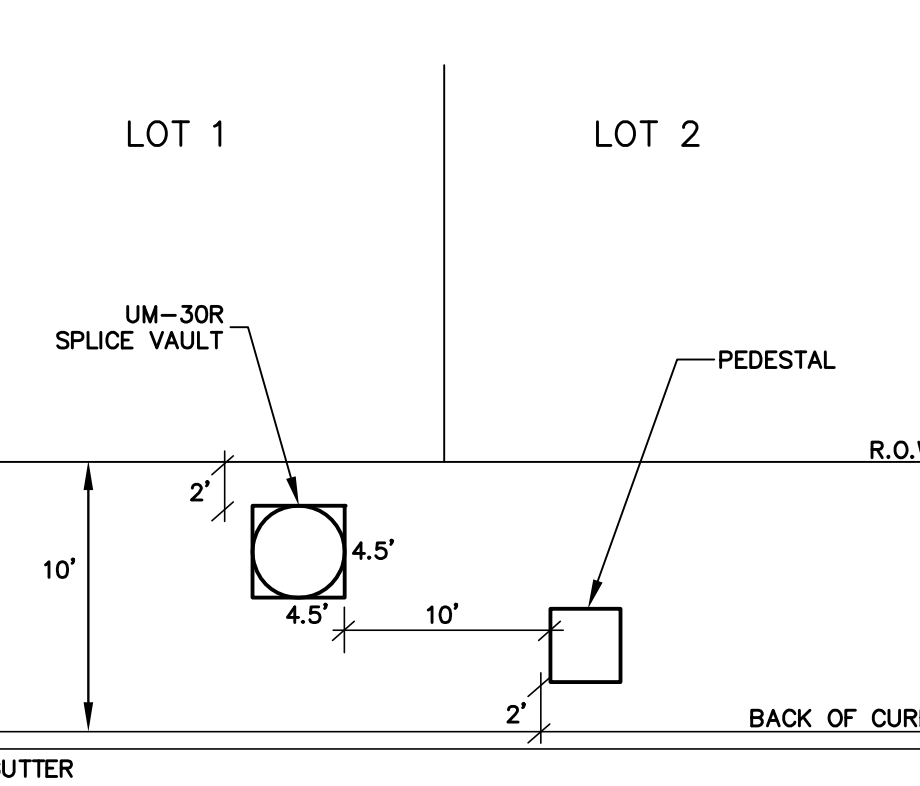


MINIMUM SEPARATION -- PLAN

NOT TO SCALE

SHALLOW UTILITY PLACEMENT DETAILS

## HANDHOLE DETAIL

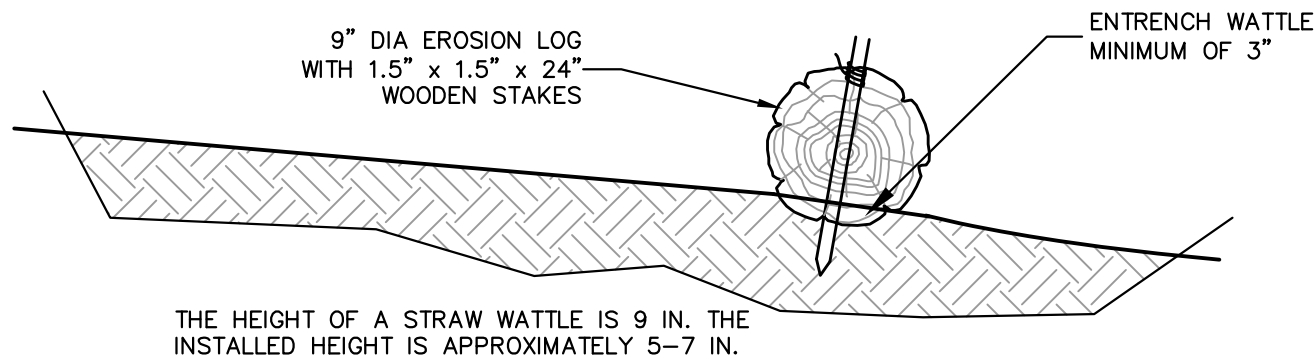


SHALLOW UTILITY VAULT PLACEMENT DETAIL

BY	REVISIONS	DATE	NO.	DESIGNED	DRAWN	CHECKED	JOB NO.	DATE
GLB	MAJOR DEVELOPMENT PERMIT	01/06/2022	1	GLB	GLB	GLB	53480.5	07/24/2021
GLB	MDP-RESPONSE TO COMMENTS	04/24/2022	2	GLB	GLB	GLB	53480.5	07/24/2021



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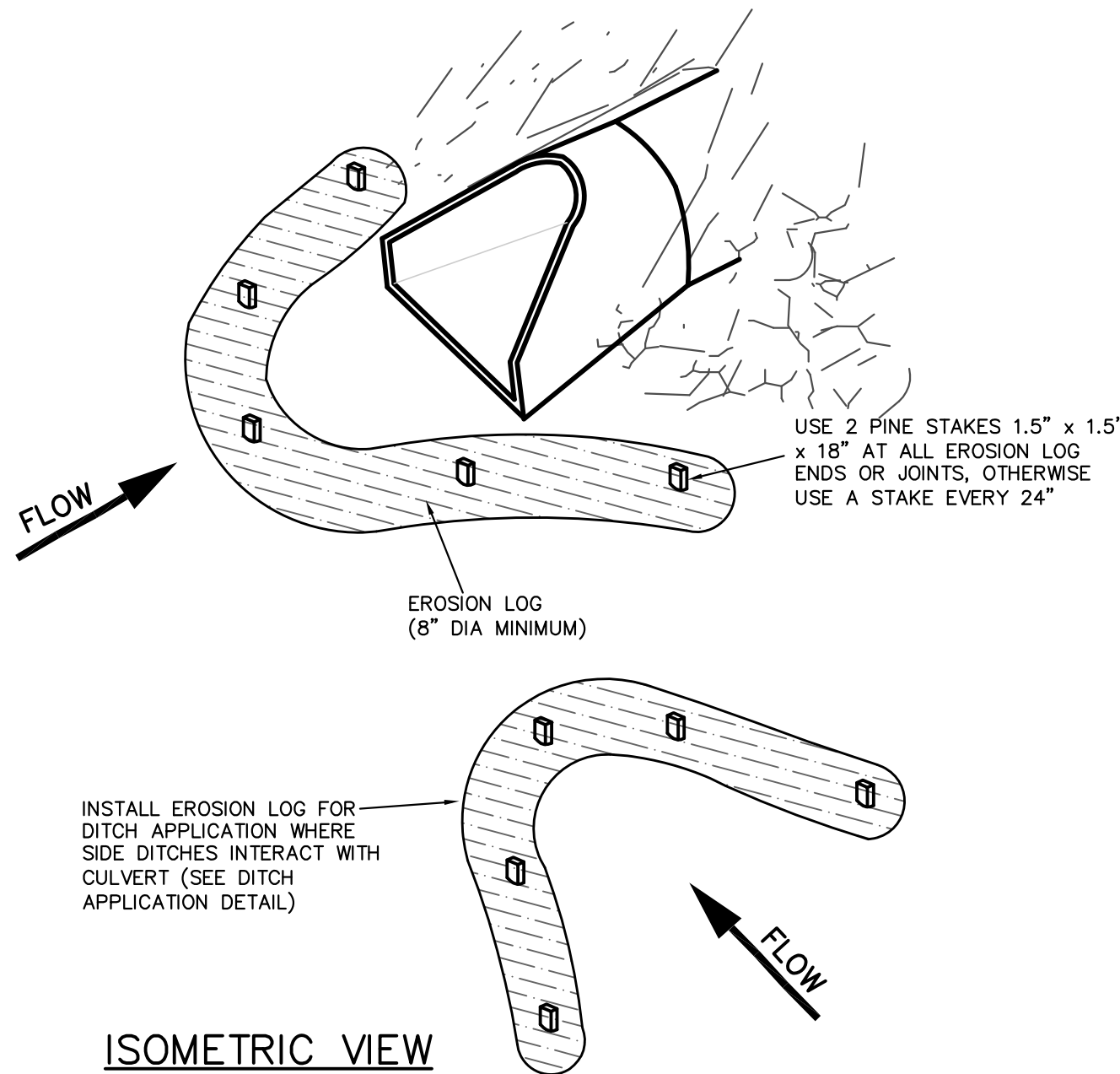
#### EROSION LOG WATTLE DETAIL

N.T.S.

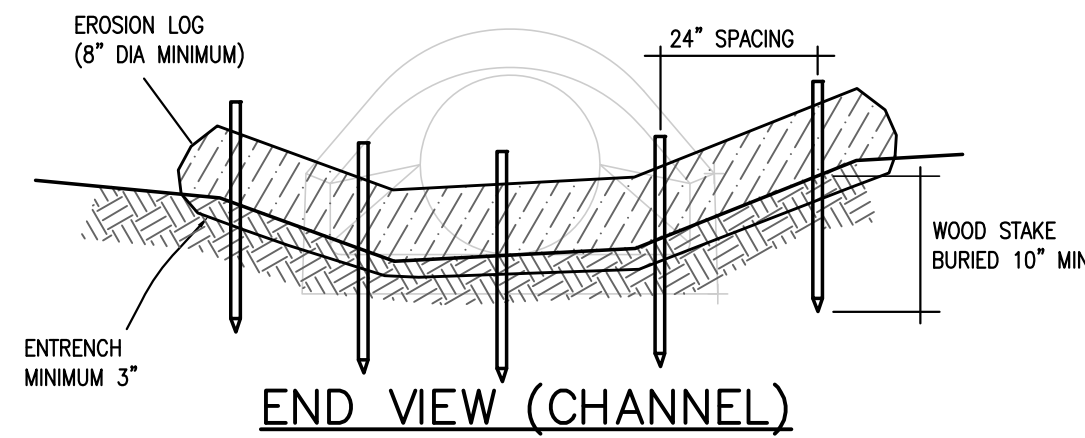
THIS SEDIMENT BARRIER IS DESIGNED FOR LOW SURFACE FLOWS NOT TO EXCEED 1 CFS FOR SMALL AREAS, SLOPE FLATTER THAN 3:1 OR SHORT SLOPES, AND WHERE SILT FENCES ARE NOT PRACTICABLE. STRAW WATTLES CAN ALSO BE INSTALLED ON CONTOUR ON STEEPER SLOPES TO REDUCE SURFACE, SPREAD WATER FLOW AND CAPTURE SEDIMENT. THE FOLLOWING IS A BRIEF DESCRIPTION OF THE STRAW WATTLES, THEIR USES AND INSTALLATION.

1. THE HEIGHT OF A STRAW WATTLE IS 9 IN. THE INSTALLED HEIGHT IS APPROXIMATELY 5 - 7 IN. THE STANDARD LENGTH OF STRAW WATTLES IS 25 FT., HOWEVER OTHER LENGTHS WILL BE MADE UPON REQUEST.
2. STRAW WATTLES CAN BE INSTALLED ON CONTOUR OF SLOPE, WITH A SLIGHT DOWNSLOPE ANGLE AT THE END OF EACH ROW TO ALLOW FOR SLOW DRAINAGE DURING HEAVY PRECIPITATION. THEY CAN ALSO BE USED AT THE TOP OF SLOPES TO PREVENT SHEETING OVER THE EDGE, AND THEY CAN BE USED AT THE TOE OF SLOPES. STRAW WATTLES CAN ALSO BE USED ALONG SIDEWALKS AND CURBS AND AROUND STORM DRAINS AND INLETS TO PREVENT SEDIMENT POLLUTION.
3. STRAW WATTLES CAN BE USED TO REPLACE SILT FENCES, STRAW BALE DIKES AND SAND BAG BARRIERS. THEY CAN ALSO BE PLACED IN DRAINAGE SWALES TO SLOW FLOWS AND CAPTURE SEDIMENT; THEY CAN BE USED AS LEVEL SPREADERS TO PREVENT CONCENTRATED FLOW, AND IN PLACE OF EARTHEN BERMS OR DIKES.
4. STRAW WATTLES SHOULD BE INSTALLED ON SURFACE.
5. LAY THE WATTLE IN THE TRENCH AND STAKE WITH 1.5" X 1.5" X 18" OR 24" WOOD STAKES AT EACH END AND 4-FOOT ON CENTER. WHEN INSTALLING RUNNING LENGTHS, STRAW WATTLE ENDS SHOULD BE BUTTJOINED FIRMLY TOGETHER TO PREVENT LEAKAGE, AND SECURELY STAKED TOGETHER BUT OVERLAPPING IS ACCEPTABLE.
6. WHEN USED ON SLOPES, STRAW WATTLES DO NOT REQUIRE REMOVAL AND CAN BE ABANDONED IN PLACE. HOWEVER, WHEN USED FOR TEMPORARY PURPOSES SUCH AS ALONG SIDEWALKS, CURBS, OR AROUND STORM DRAINS, THEY CAN BE REMOVED AND REUSED.
7. WATTLES INSTALLED ON SLOPES THAT ARE STEEPER THAN 2:1 SHALL BE SPACED AT 10' INTERVALS RATHER THAN 20' INTERVALS.

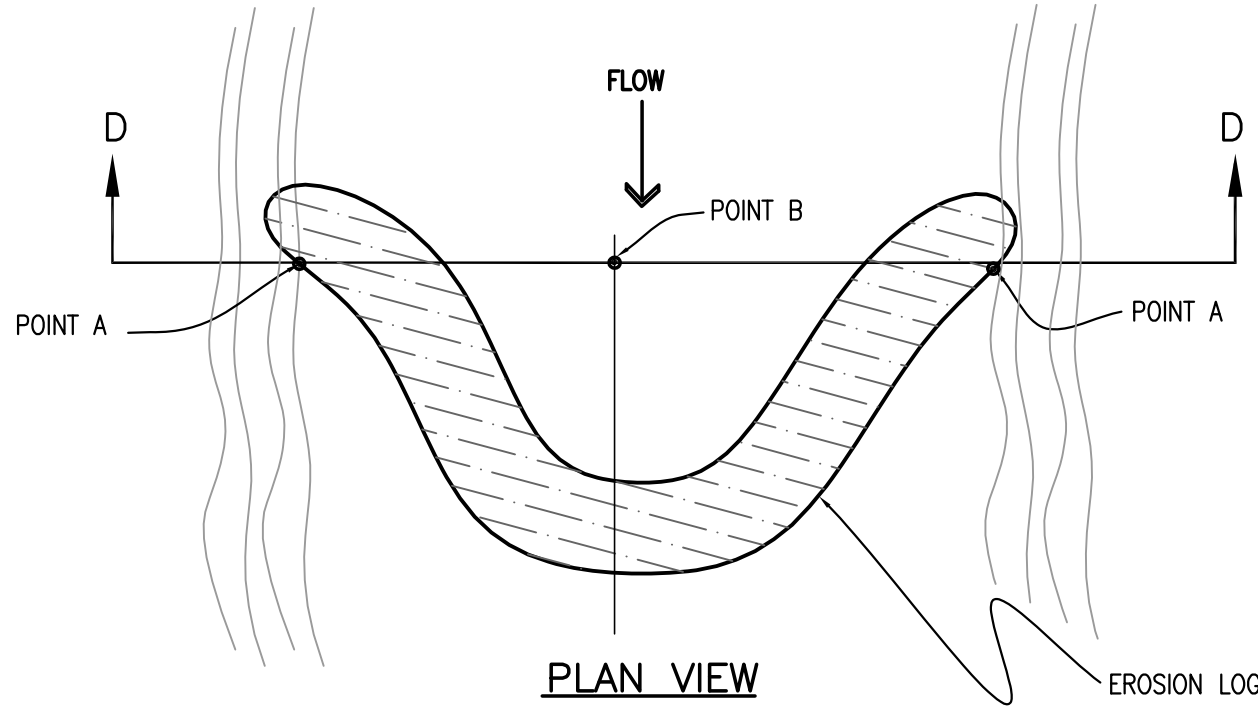
SYMBOL ON PLANS ——— W ——— W ———



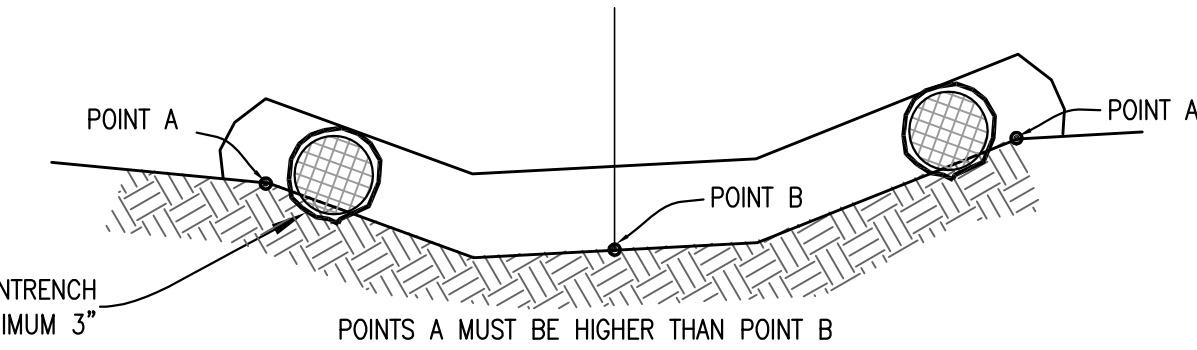
#### ISOMETRIC VIEW



#### END VIEW (CHANNEL)

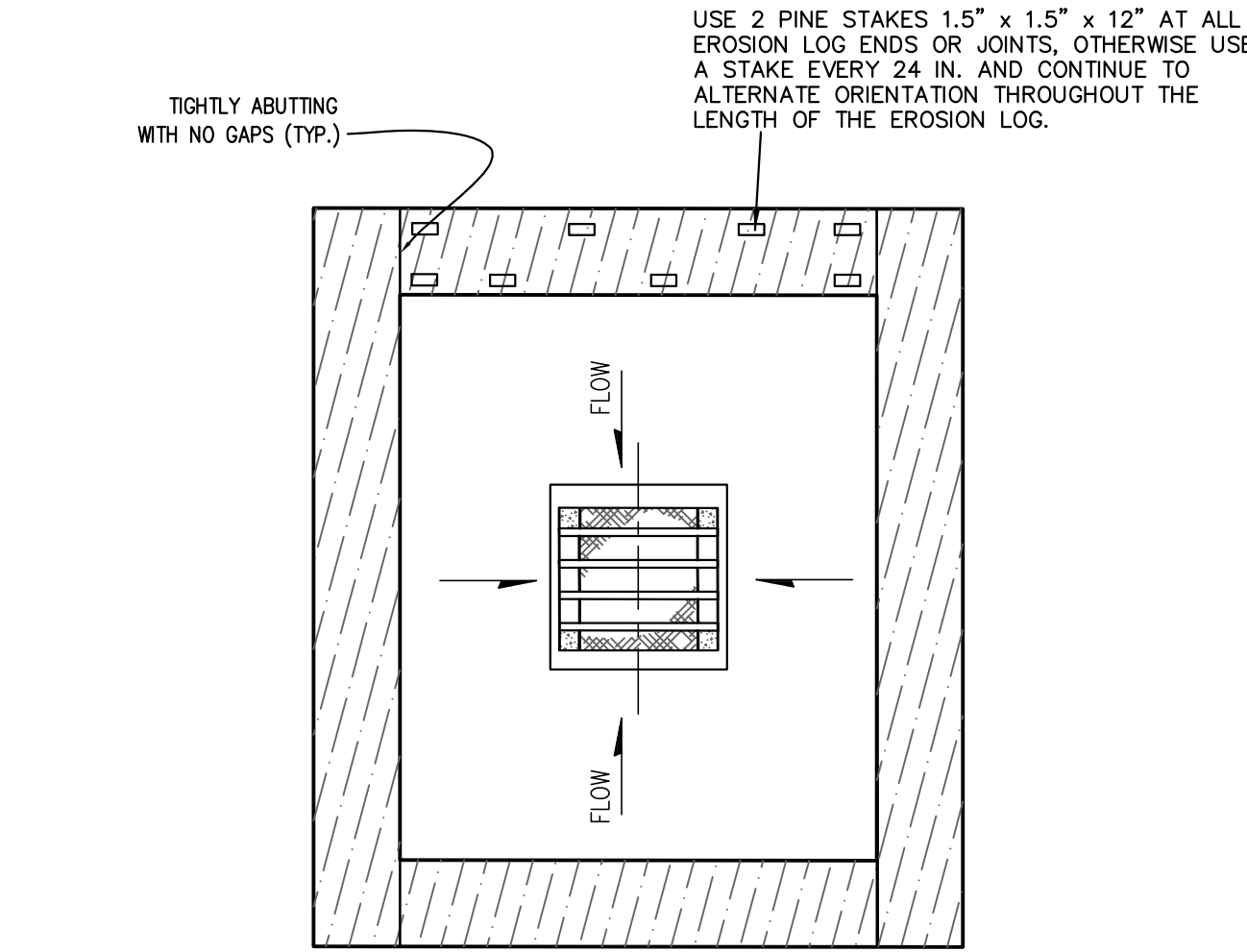
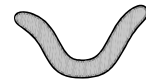


#### PLAN VIEW

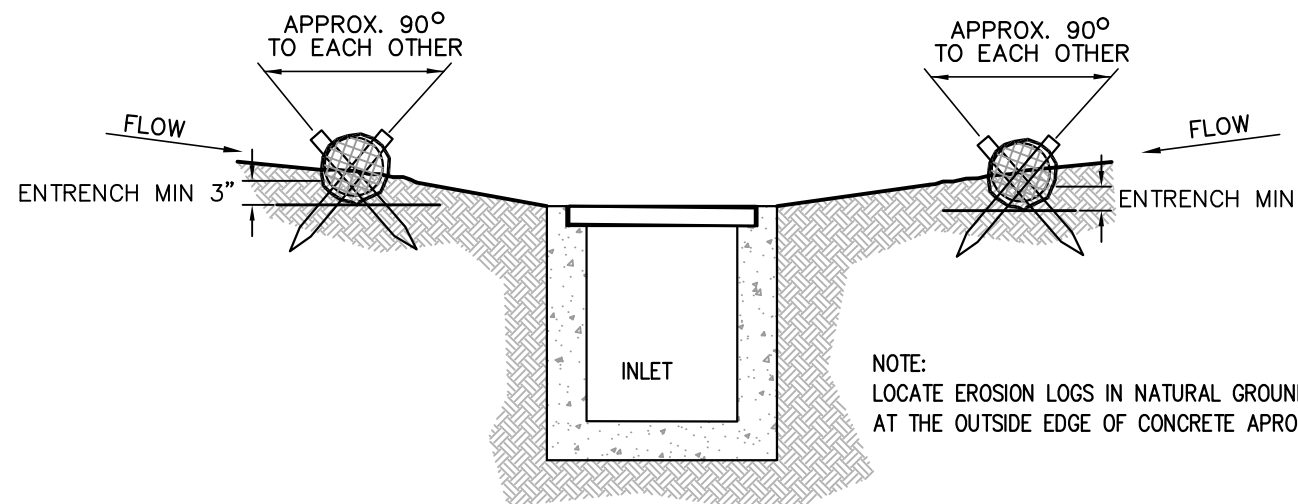


#### SECTION D-D

SYMBOL ON PLANS



#### PLAN VIEW



#### CROSS SECTION

SYMBOL ON PLANS



#### STRAW WATTLES-SLOPE PROTECTION

#### WATTLE CULVERT PROTECTION

#### DITCH WATTLES

#### EROSION LOG INLET PROTECTION

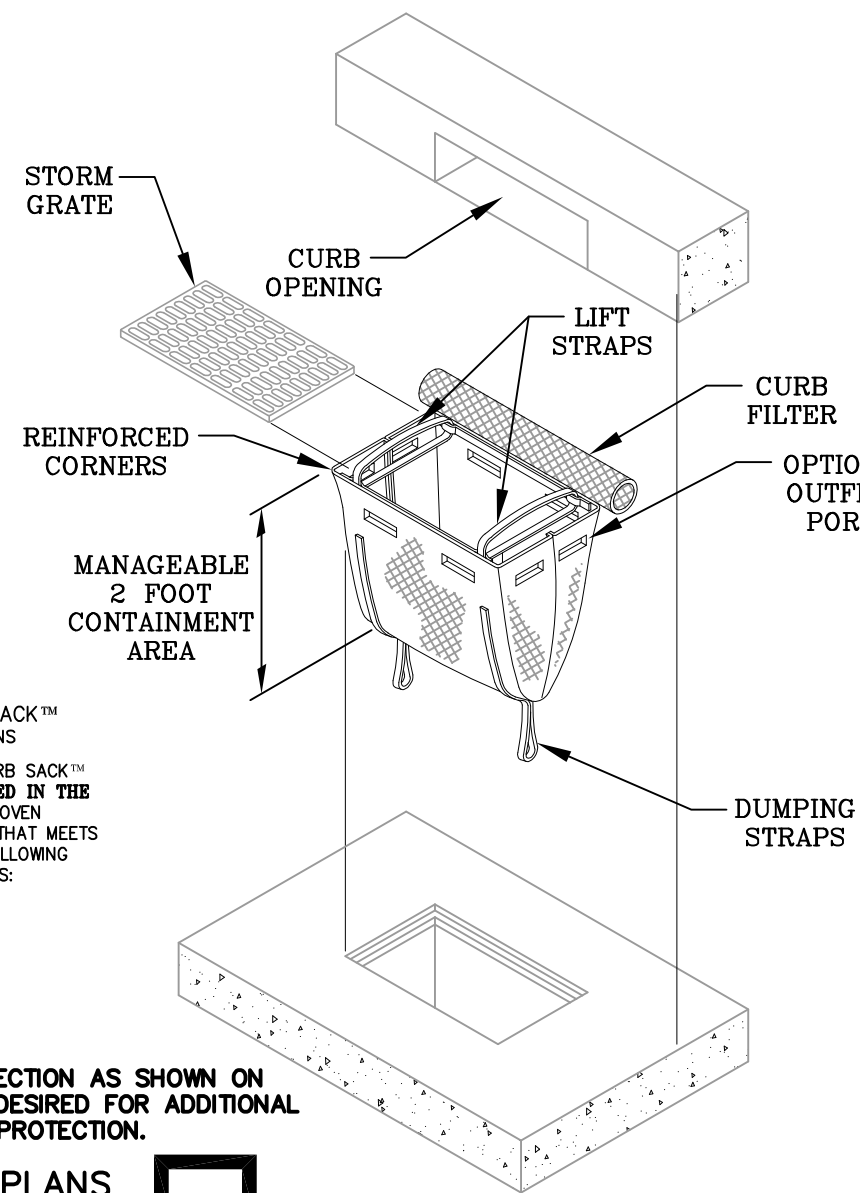
##### REGULAR FLOW DANDY CURB SACK™ (BLACK)

Mechanical Properties	Test Method	Units	MARV
Grab Tensile Strength	ASTM D 4632	kn (lbf)	1.78 (400) X 1.40 (315)
Grab Tensile Elongation	ASTM D 4632	%	10 X 15
Puncture Strength	ASTM D 4833	kn (lbf)	0.67 (150)
Mullen Burst Strength	ASTM D 3786	kPa (psi)	5508 (800)
Trapezoid Tear Strength	ASTM D 4533	kn (lbf)	0.67 (150) X 0.75 (165)
UV Resistance	ASTM D 4355	%	90
Apparent Opening Size	ASTM D 4751	Mm (US Std Sieve)	0.425 (40)
Flow Rate	ASTM D 4491	l/min/m² (gal/min/ft²)	2852 (70)
Permeability	ASTM D 4491	Sec	0.90

##### HI-FLOW DANDY CURB SACK™ (SAFETY ORANGE)

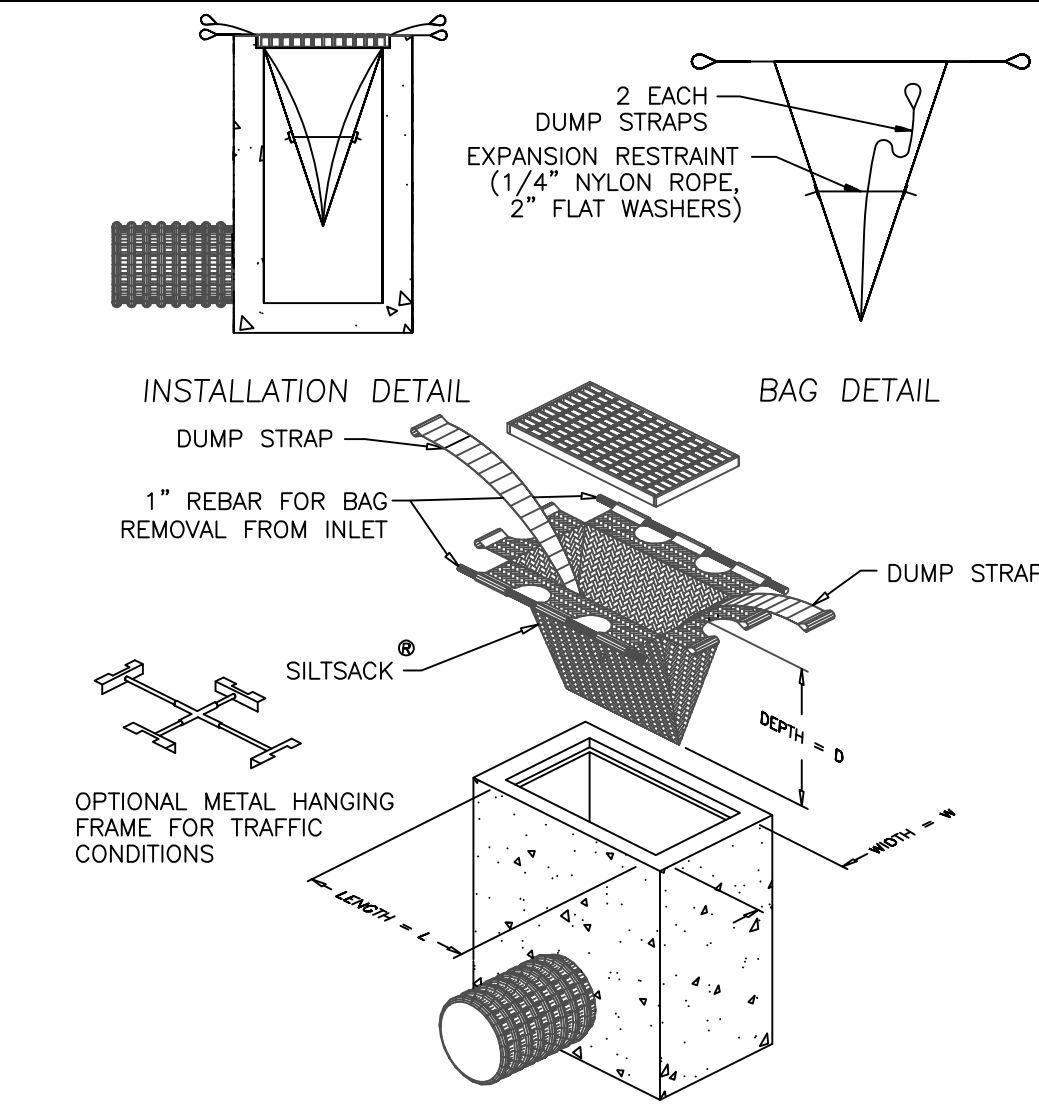
Mechanical Properties	Test Method	Units	MARV
Grab Tensile Strength	ASTM D 4632	kn (lbf)	1.62 (365) X 0.89 (200)
Grab Tensile Elongation	ASTM D 4632	%	24 X 10
Puncture Strength	ASTM D 4833	kn (lbf)	0.40 (90)
Mullen Burst Strength	ASTM D 3786	kPa (psi)	3097 (450)
Trapezoid Tear Strength	ASTM D 4533	kn (lbf)	0.51 (115) X 0.33 (75)
UV Resistance	ASTM D 4355	%	90
Apparent Opening Size	ASTM D 4751	Mm (US Std Sieve)	0.425 (40)
Flow Rate	ASTM D 4491	l/min/m² (gal/min/ft²)	5907 (145)
Permeability	ASTM D 4491	Sec	2.1

\*Note: All Dandy Sacks™ can be ordered with our optional oil absorbent pillows



INSTALL INLET PROTECTION AS SHOWN ON PLANS AND WHERE DESIRED FOR ADDITIONAL SEDIMENT CONTROL PROTECTION.

SYMBOL ON PLANS



NOTE: THE SILT SACK™ WILL BE MANUFACTURED FROM A WOVEN POLYPROPYLENE FABRIC THAT MEETS OR EXCEEDS THE FOLLOWING SPECIFICATIONS:

##### REGULAR FLOW SILT SACK® (FOR AREAS OF LOW TO MODERATE PRECIPITATION AND RUN-OFF)

PROPERTIES	TEST METHOD	UNITS
GRAB TENSILE STRENGTH	ASTM D-4632	300 LBS
GRAB TENSILE ELONGATION	ASTM D-4632	20 %
PUNCTURE	ASTM D-4833	100 LBS
MULLEN BURST	ASTM D-3786	800 PSI
TRAPEZOID TEAR	ASTM D-4533	100 LBS
UV RESISTANCE	ASTM D-4355	80 %
APPARENT OPENING SIZE	ASTM D-4751	40 US SIEVE
FLOW RATE	ASTM D-4491	40 GAL/MIN/50 FT
PERMEABILITY	ASTM D-4491	0.55 SEC -1

##### HI-FLOW SILT SACK® (FOR AREAS OF MODERATE TO HEAVY PRECIPITATION AND RUN-OFF)

PROPERTIES	TEST METHOD	UNITS
GRAB TENSILE STRENGTH	ASTM D-4632	265 LBS
GRAB TENSILE ELONGATION	ASTM D-4632	20 %
PUNCTURE	ASTM D-4833	100 LBS
MULLEN BURST	ASTM D-3786	450 PSI
TRAPEZOID TEAR	ASTM D-4533	40 LBS
UV RESISTANCE	ASTM D-4355	70 %
APPARENT OPENING SIZE	ASTM D-4751	40 US SIEVE
FLOW RATE	ASTM D-4491	200 GAL/MIN/50 FT
PERMEABILITY	ASTM D-4491	1.5 SEC -1

##### OIL-ABSORBANT SILT SACK®

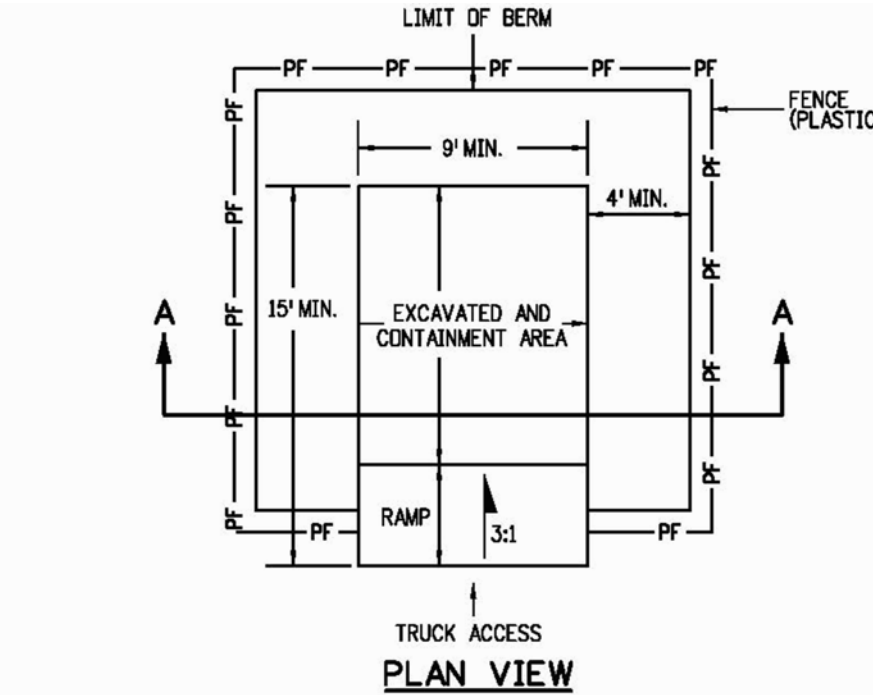
(FOR AREAS WHERE THERE IS A CONCERN FOR OIL RUN-OFF OR SPILLS)

DEPENDING ON YOUR PARTICULAR APPLICATION, THE SILT SACK® CAN BE MADE FROM EITHER ONE OF THE ABOVE FABRICS WITH AN OIL-ABSORBANT PILLION INSERT OR, MADE COMPLETELY FROM AN OIL-ABSORBANT SILT SACK WITH A WOVEN PILLION INSERT.

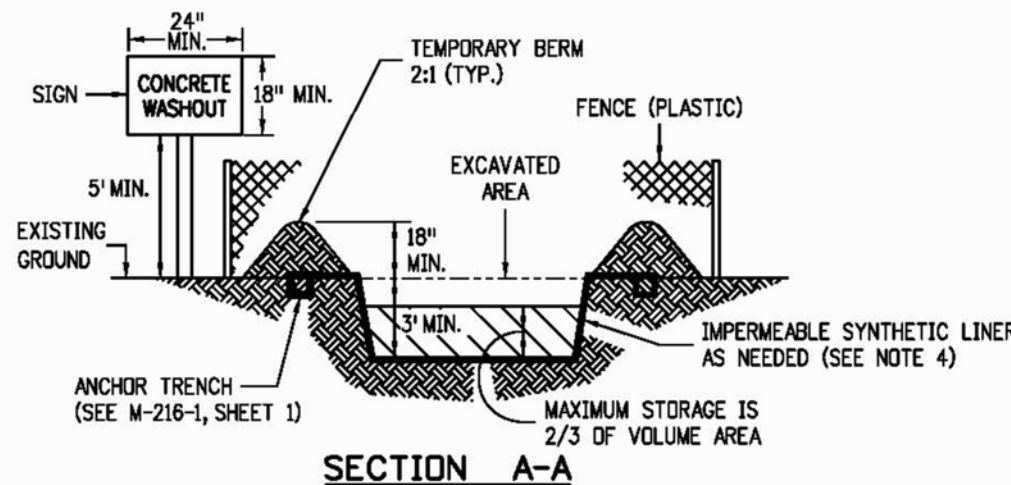
SYMBOL ON PLANS



INSTALL INLET PROTECTION AS SHOWN ON PLANS AND WHERE DESIRED FOR ADDITIONAL SEDIMENT CONTROL PROTECTION.



#### PLAN VIEW



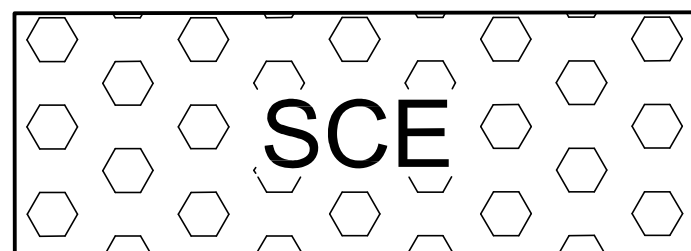
#### SECTION A-A

- NOTES:
1. A FENCE (PLASTIC) CONFORMING TO SECTION 607 SHALL BE INSTALLED AROUND THE CONCRETE WASHOUT AREA, EXCEPT AT THE OPENING.
  2. THE CONCRETE WASHOUT SIGN SHALL HAVE LETTERS AT LEAST 3 INCHES HIGH AND CONFORM TO SUBSECTION 630.02.
  3. ALL MATERIALS AND LABOR TO COMPLETE THE CONCRETE WASHOUT STRUCTURE SHALL BE INCLUDED IN THE COST OF WORK AND NOT PAID FOR SEPARATELY.
  4. THE BOTTOM OF EXCAVATION SHALL BE A MINIMUM OF FIVE FEET ABOVE GROUND WATER. IF NOT, IT SHALL BE LINED WITH AN IMPERMEABLE SYNTHETIC LINER THAT IS DESIGNED TO CONTROL SEEPAGE AT A MAXIMUM RATE OF 6 TO 10 CENTIMETERS PER SECOND.
  5. THE PAY ITEM NUMBER FOR CONCRETE WASHOUT STRUCTURE (EACH) IS 208-00045.

#### CONCRETE WASHOUT STRUCTURE

PRELIMINARY  
April 20, 2022  
NOT FOR CONSTRUCTION

SEE TOWN OF EAGLE PUBLIC  
WORKS MANUAL- APPENDIX E  
TRACKING PAD DETAIL (E11)



SYMBOL ON PLANS

NO.	DATE	REVISIONS	BY
1	01/06/2022	MAJOR DEVELOPMENT PERMIT	GLB
2	04/24/2022	MDP-RESPONSE TO COMMENTS	GLB

DESIGNED	GLB, RIF
DRAWN	GLB, RIF
CHECKED	MCW
JOB NO.	53480.5
DATE	07/24/2021