

HAYMEADOW

PARCELS RMF-1 AND RMF-2

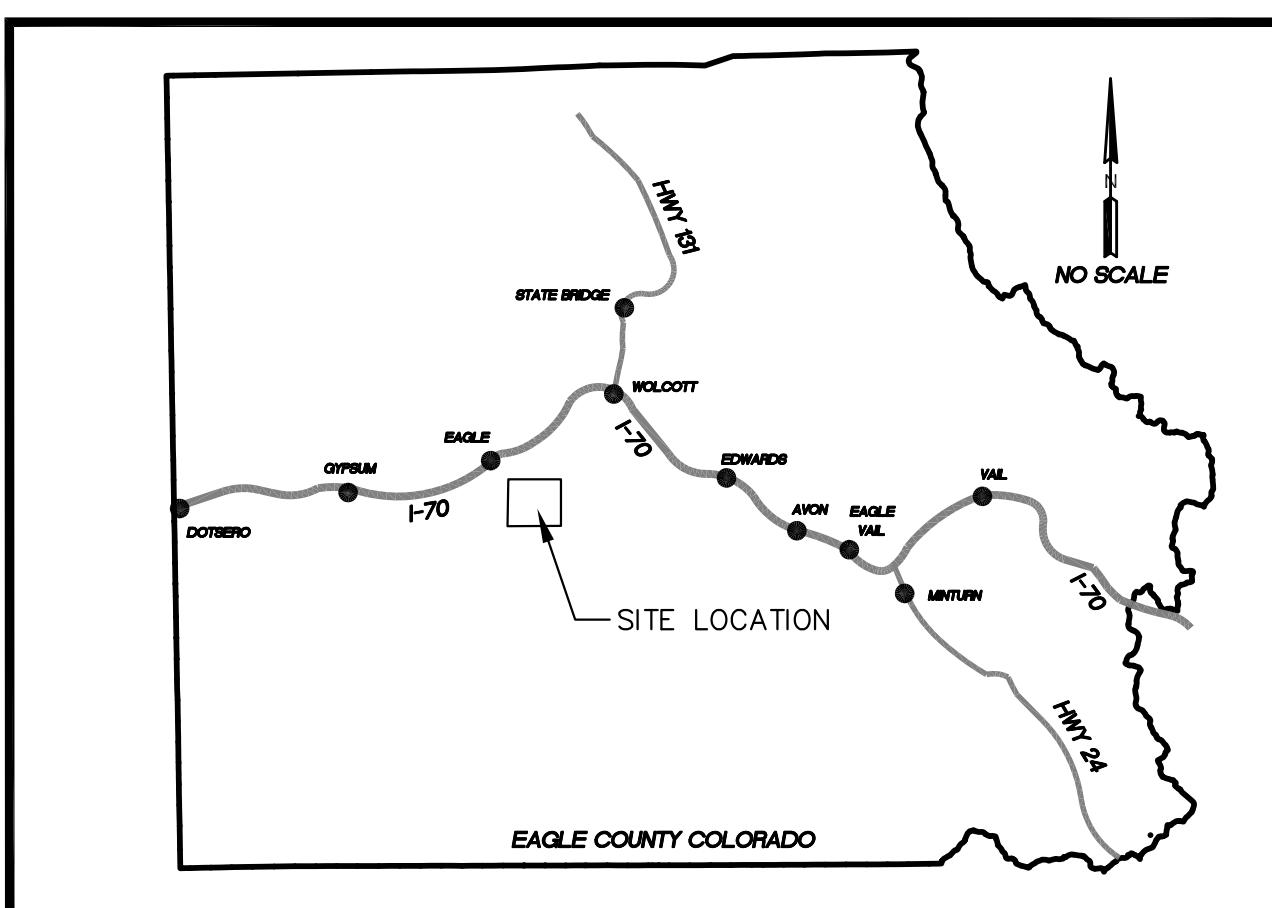
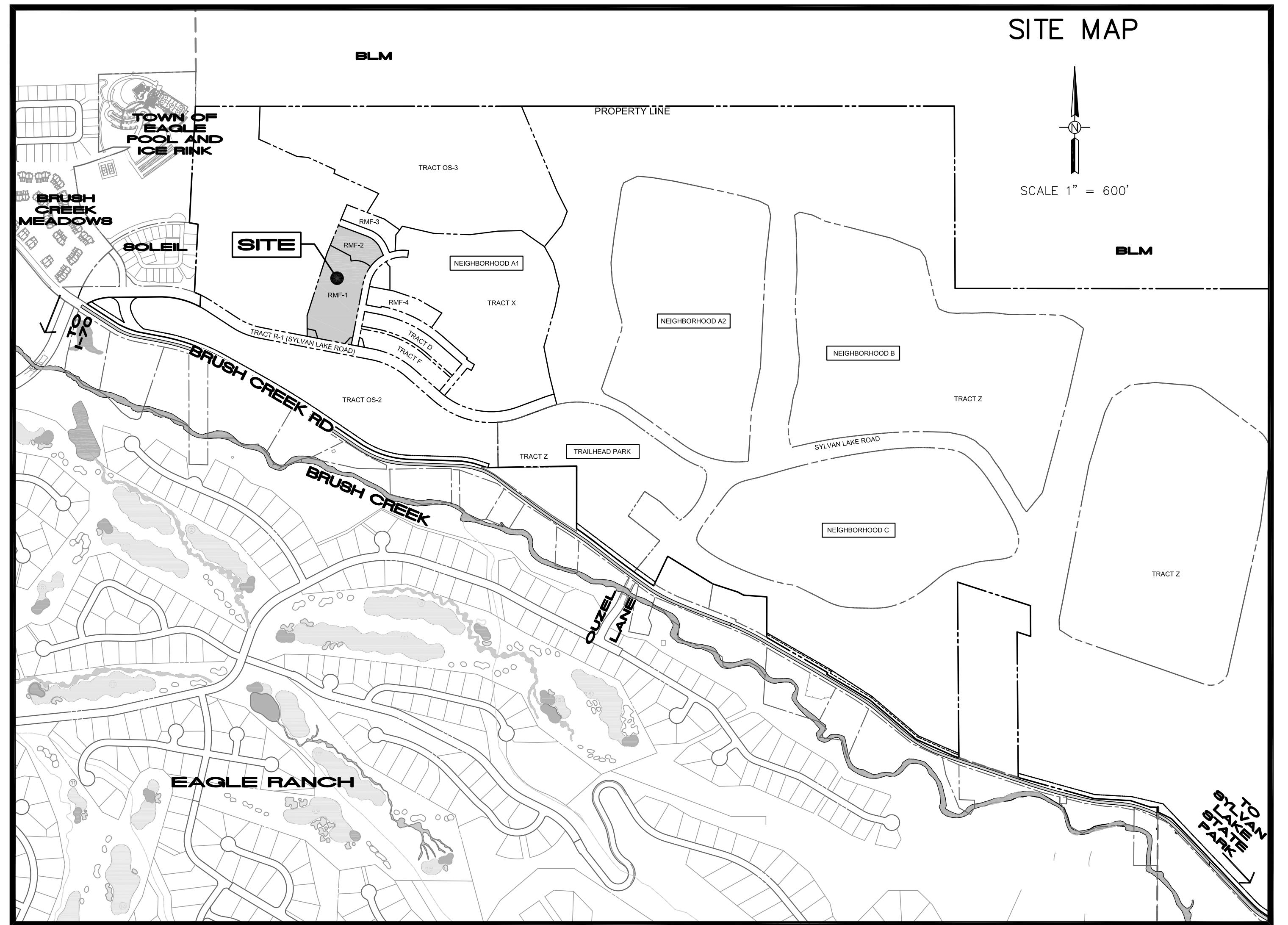
DEVELOPMENT PERMIT

EAGLE, COLORADO
JANUARY 2022

ALPINE
ENGINEERING INC.
34510 HWY 6 UNIT A9 / PO BOX 97
EDWARDS CO 80432-9733
WWW.ALPINECIVIL.COM

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 cdph stormwater management permit and plan.
- The Contractor shall minimize 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 osho 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, 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 Archibeque 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 cap monuments properly marked.
- Basis of elevation: NAVD 29 on U.S.G.L.O. benchmark D-280.

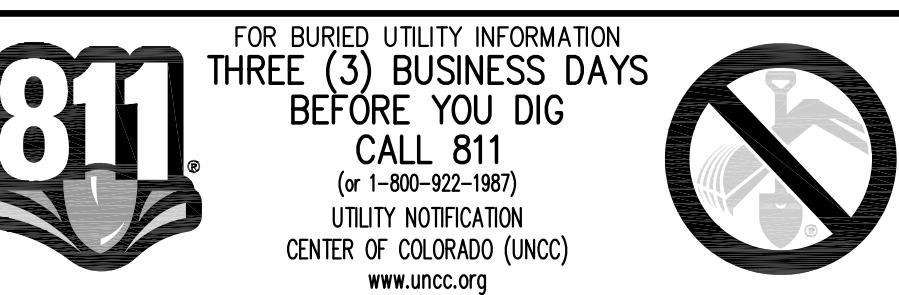


LOCATION MAP

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| PROJECT CONTACTS | |
|--|----------------|
| DEVELOPER, ABRICA PROPERTIES, LLC | (970) 328-9519 |
| OWNER'S REPRESENTATIVE: SCOTT SCHLOSSER (scotties@vail.net) | (970) 328-9519 |
| PLANNER, PYLMAN AND ASSOCIATES: RICK PYLMAN (rick@pylman.com) | (970) 926-6065 |
| CIVIL ENGINEER, ALPINE ENGINEERING: MATT WADEY (wadey@alpincivil.com) | (970) 926-3373 |
| LANDSCAPE ARCHITECT, DHM DESIGN: LAURA KIRK (lkirk@dhmdesigncom) | (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@blackhillsenergy.com) | (970) 309-2432 |
| HOLY CROSS ENERGY (ELECTRIC): KEITH HERNANDEZ (kernandez@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 |

PRELIMINARY
April 20, 2022
NOT FOR CONSTRUCTION



HAYMEADOW FILING 1
RMF-1 & RMF-2
CIVIL COVER SHEET

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

SHEET
C1.01

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

- I. 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. Undisturbed soil shall 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 practical. 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. Bells bends will not be allowed in the vaults. Holy Cross Energy only factory couplers 90°, 45°, and 2½" 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 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 sealed to the line marked on the main end of the conduit after sufficient seal is applied to both conduits being joined. A 1/4" area where the trench is cut into existing concrete shall be glued 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. A camera will be used to be witnessed by the Holy Cross Energy inspector. Verify the joint sealing 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 in areas of roads or in 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 far 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. Cleanout 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.

HAYMEADOW FILING 1

RME-1 & RME-2

The logo for Alpine Engineering Inc. is a vertical composition. On the left, the word "ALPINE" is written in a large, bold, black, sans-serif font. To its right is a graphic element consisting of several thick, black, horizontal bars of varying lengths, some with diagonal hatching. To the right of this graphic, the word "ENGINEERING" is written in a tall, narrow, black, sans-serif font. To the right of "ENGINEERING" is "INC." in a smaller, black, sans-serif font. At the bottom right, the address "34510 HWY 6 / UNIT A9 / PO BOX 97 EDWARDS CO 81632 / 970.926.3373" and the website "WWW.ALPINECIVIL.COM" are listed in a smaller, black, sans-serif font.

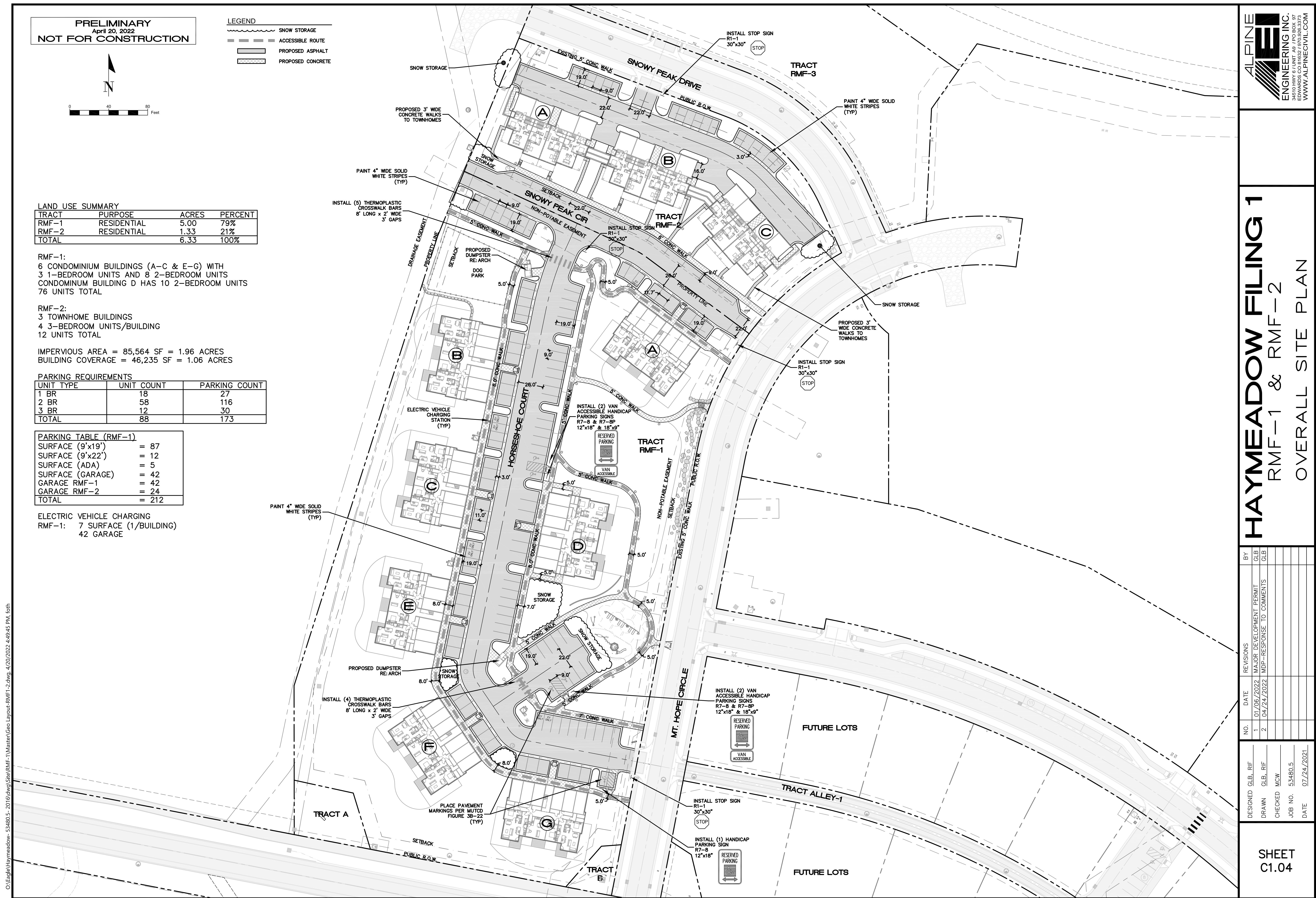
SHEET C1.03

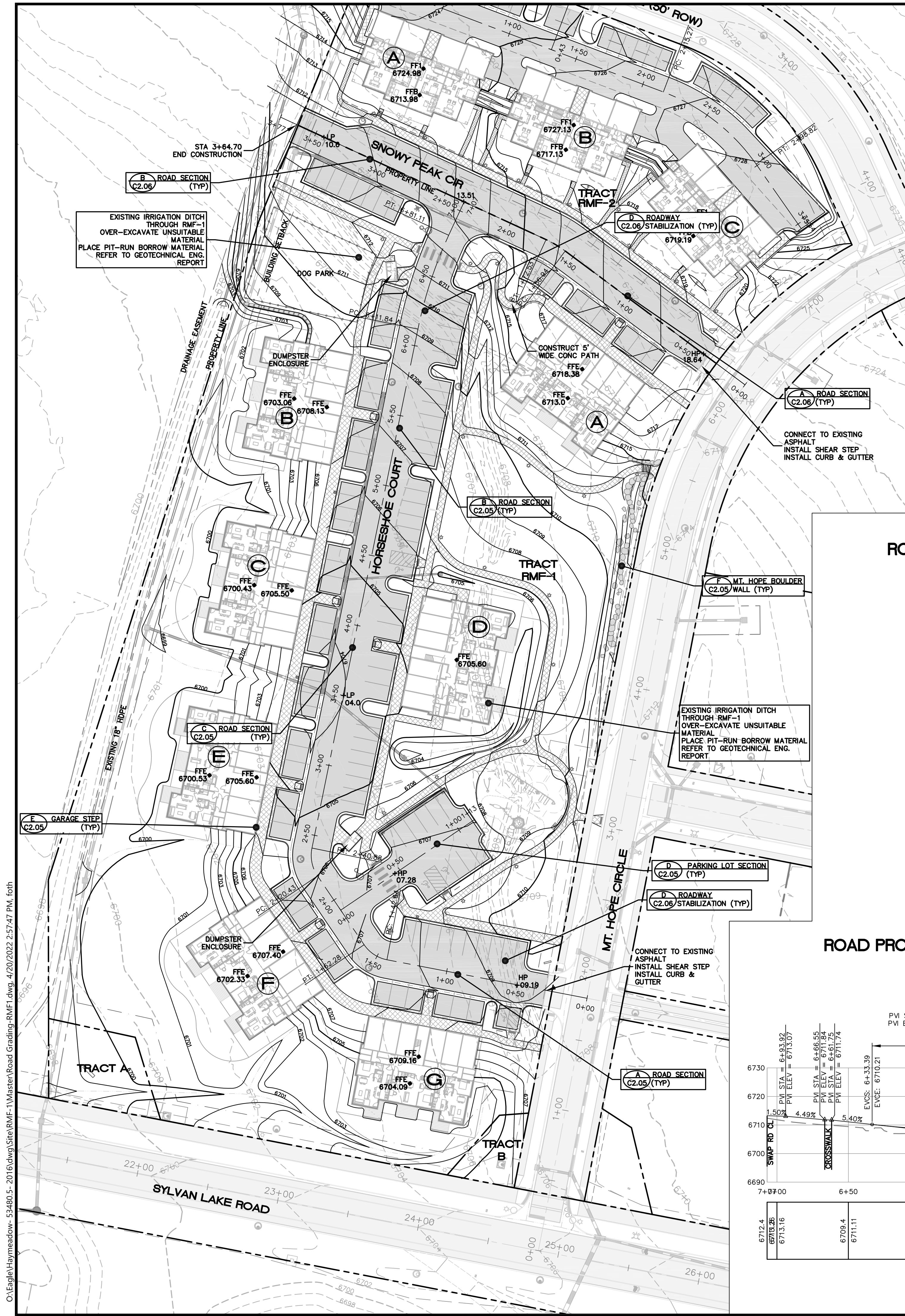
| | | | | | |
|----------|-------------------|-----|------------|----------------------------|-----|
| DESIGNED | <u>GLB, RIF</u> | NO. | DATE | REVISIONS | BY |
| DRAWN | <u>GLB, RIF</u> | 1 | 01/06/2022 | MAJOR DEVELOPMENT PERMIT | GLB |
| CHECKED | <u>MCW</u> | 2 | 04/24/2022 | MDP – RESPONSE TO COMMENTS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

SHEET
C1.03

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PRELIMINARY
April 20, 2022
NOT FOR CONSTRUCTION

ROAD PROFILE: PARKING LOT

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

| 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 |

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

ROAD PROFILE: SNOWY PEAK CIRCLE

LOW PT. STA: 3+44.78
LOW PT. ELEV: 6710.60
PVI STA=3+20.00
PVI ELEV=6710.13
K=20.00
99.6' VC

HIGH PT. STA: 0+36.51
HIGH PT. ELEV: 6718.64
PVI STA=0+36.51
PVI ELEV=6718.74
K=5.00
20.0' VC

END OF RMF-1 CONSTRUCTION

PROPOSED FINISH GRADE

EXISTING GROUND

-3.73%

-2.00%

EVCS: 3+69.82
EVCE: 6710.75

BVCS: 2+70.18
BVCE: 6711.99

EVCS: 1+67.30
EVCE: 6715.83

BVCS: 1+32.70
BVCE: 6716.82

EVCS: 0+46.51
EVCE: 6718.54

BVCS: 0+26.51
BVCE: 6718.35

EVCS: 0+17.00
EVCE: 6718.35

BVCS: 0+11.00
BVCE: 6718.35

EVCS: 0+06.60
EVCE: 6718.35

BVCS: 0+06.60
BVCE: 6718.35

EVCS: 0+00.00
EVCE: 6718.35

BVCS: 0+00.00
BVCE: 6718.35

MT. HOPE CL

EXISTING EOA

EXISTING PAN

FINISH GRADE

| STATION | EXISTING GROUND | PROPOSED FINISH GRADE |
|---------|-----------------|-----------------------|
| 3+77 | 6706.00 | 6706.00 |
| 3+50 | 6710.85 | 6710.85 |
| 3+00 | 6709.7 | 6709.7 |
| 2+50 | 6710.60 | 6710.60 |
| 2+00 | 6711.9 | 6711.9 |
| 1+50 | 6712.74 | 6713.7 |
| 1+00 | 6714.61 | 6715.7 |
| 0+50 | 6716.40 | 6716.40 |
| 0+00 | 6717.47 | 6717.47 |

ROAD PROFILE: HORSESHOE COURT

SWAP RD CL

CROSSWALK

PVI STA=5+99.40
PVI ELEV=6708.37
K=20.00
68.0' VC

PVI STA=6+66.55
PVI ELEV=6711.84
PVI STA=6+61.75
PVI ELEV=6711.74

EVCS: 6+33.39
EVCE: 6710.21

BVCS: 5+65.41
BVCE: 6707.69

1.50%
4.49%
5.40%

LOW PT. STA: 3+50.18
LOW PT. ELEV: 6703.99
PVI STA=3+50.23
PVI ELEV=6703.39
K=30.00
119.9' VC

EVCS: 4+10.18
EVCE: 6704.59

BVCS: 2+90.28
BVCE: 6704.59

2.00%

EXISTING GROUND

FINISH GRADE

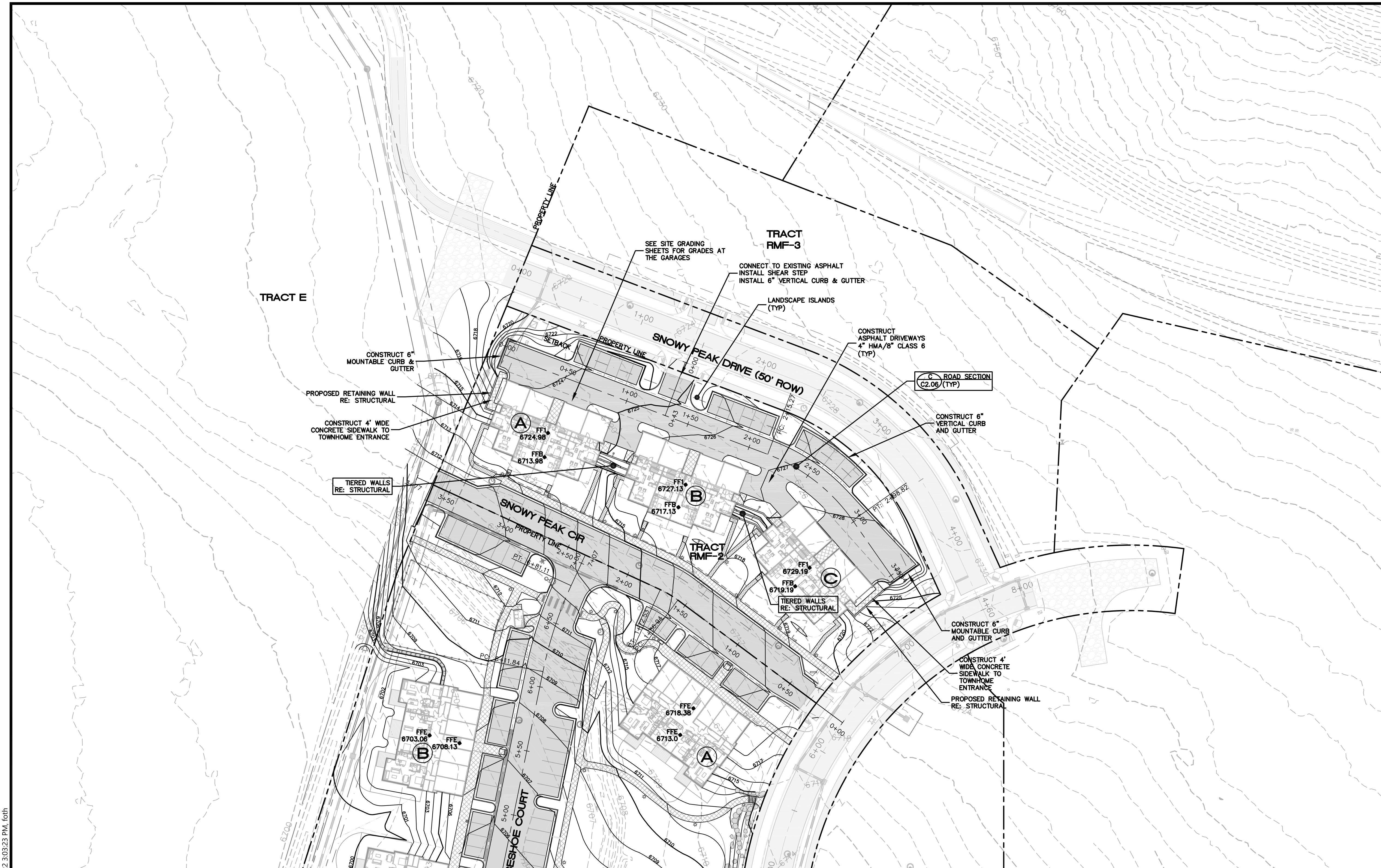
| STA | ELEV |
|---------|---------|
| 7+07.00 | 6712.4 |
| 6+71.26 | 6713.16 |
| 6+50 | 6709.4 |
| 6+00 | 6711.11 |
| 5+50 | 6706.9 |
| 5+00 | 6708.69 |
| 4+50 | 6705.5 |
| 4+00 | 6707.39 |
| 4+00 | 6704.5 |
| 4+00 | 6706.39 |
| 4+00 | 6704.40 |
| 3+50 | 6704.1 |
| 3+50 | 6704.0 |
| 3+50 | 6703.99 |
| 3+00 | 6704.2 |
| 3+00 | 6704.41 |
| 2+50 | 6703.8 |
| 2+50 | 6705.39 |
| 2+00 | 6706.39 |

HAYMEADOW FILING 1

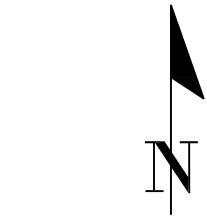
RMF-1 & RMF-2

ROAD PLAN AND PROFILES

SHEET C2.01



| LEGEND | |
|----------------------------|----------------------------------|
| 6712 | PROPOSED CONTOUR (5' INTERVAL) |
| 6711 | PROPOSED CONTOUR (1' INTERVAL) |
| 6710 | EXISTING CONTOUR (10' INTERVAL) |
| 6715 | EXISTING CONTOUR (2' INTERVAL) |
| 21.54+ 22.14+ | PROPOSED/EXISTING SPOT ELEVATION |
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| CONCRETE DRAINAGE PAN | |
| CONCRETE CURB & GUTTER | |
| STORM SEWER PIPE | |
| STORM SEWER MH, INLET, ETC | |
| 1+50 | ROAD CENTERLINE & STATIONING |
| TRACT BOUNDARY | |
| BUILDING SETBACK | |



0 40 80 Feet

SEE STORM DRAINAGE PLAN & PROFILE SHEETS FOR DRAINAGE INFORMATION

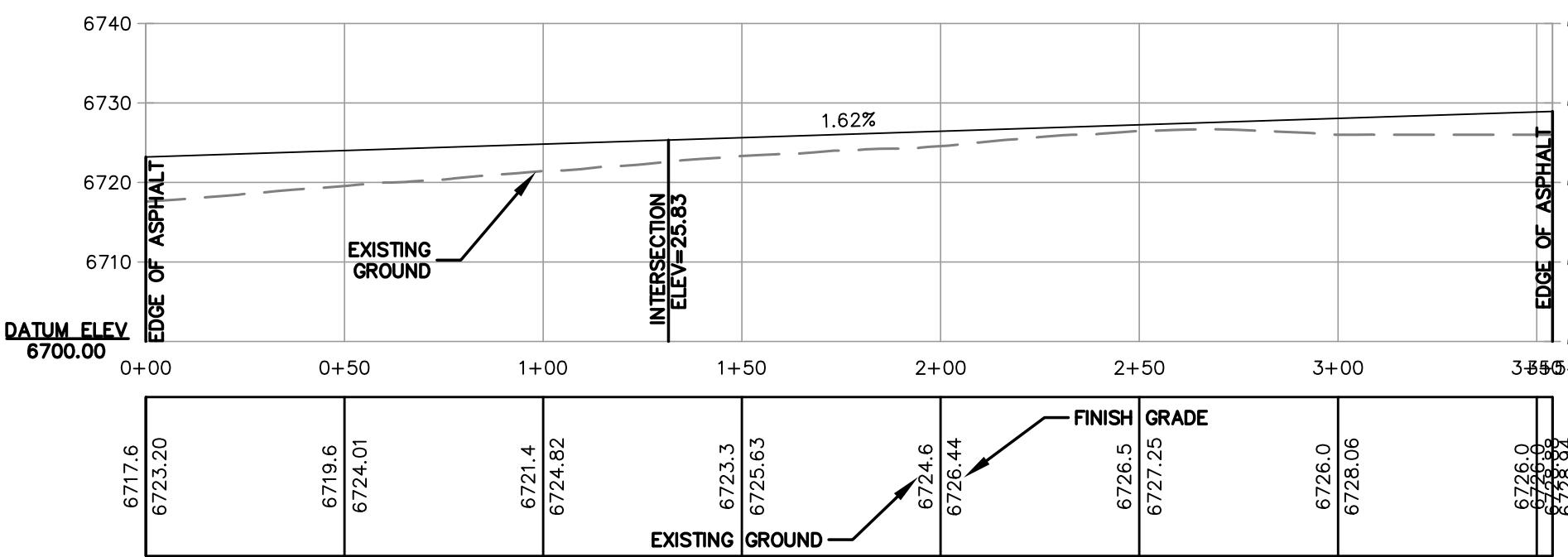
SEE SHEETS C2.05-C2.06 FOR TYPICAL ROAD SECTIONS

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

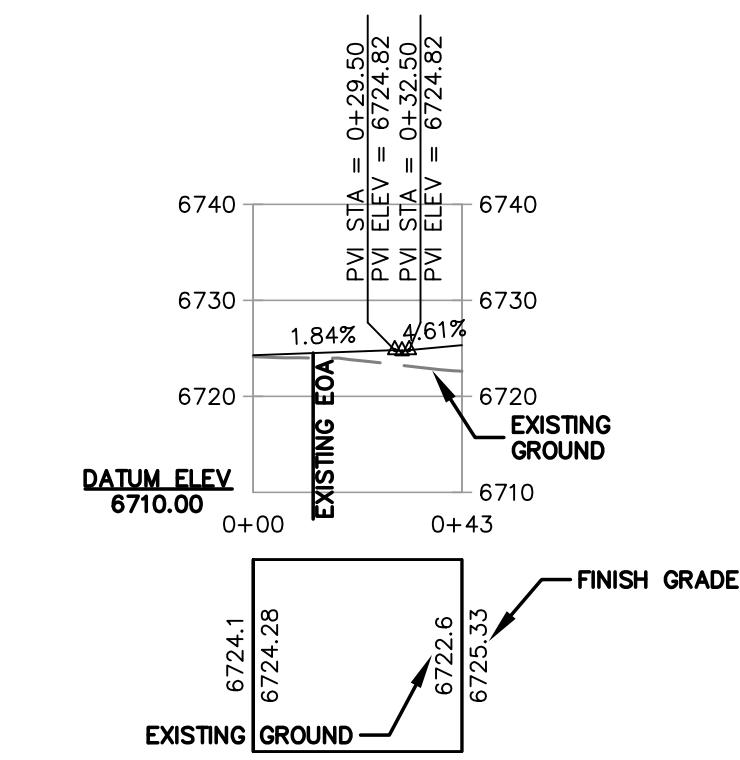
ALL ADA RAMPS SHOWN REQUIRE DETECTABLE WARNING PLATES PER ADA SPECIFICATIONS

PRELIMINARY
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NOT FOR CONSTRUCTION

ROAD PROFILE: RMF-2



ROAD PROFILE: SNOWY PEAK CONNECTION



HAYMEADOW FILING 1 RMF-1 & RMF-2

ROAD PLAN AND PROFILES

ALPINE
ENGINEERING INC.
34510 HWY 6 UNIT A9 / PO BOX 97
EDWARDS CO 81632 190263373
WWW.ALPINECIVIL.COM

SHEET
C2.02

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



ACT E

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

SHEET
C2.04

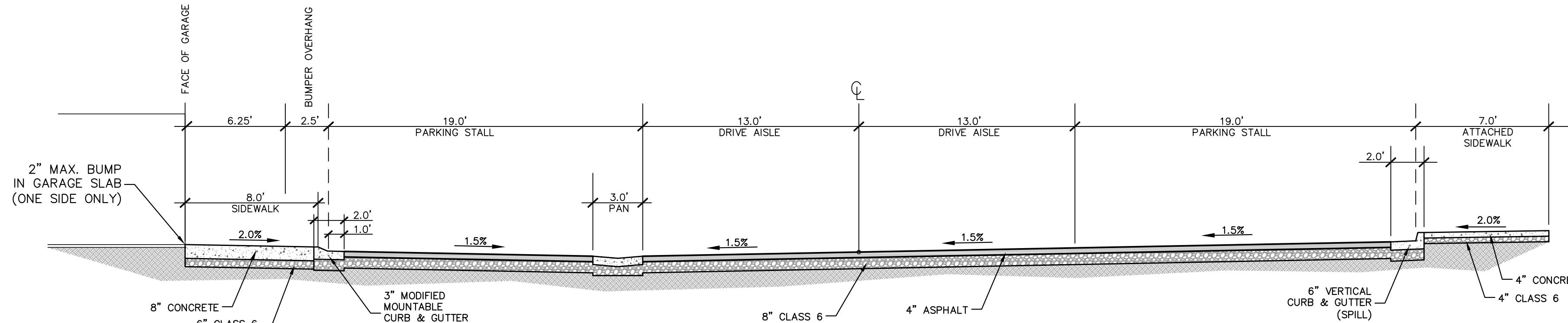
SHEET 08.04

| | |
|----------|-----------------|
| DESIGNED | <u>GLB, RIF</u> |
| DRAWN | <u>GLB, RIF</u> |
| CHECKED | <u>MCW</u> |
| CCB NO | 53180 5 |

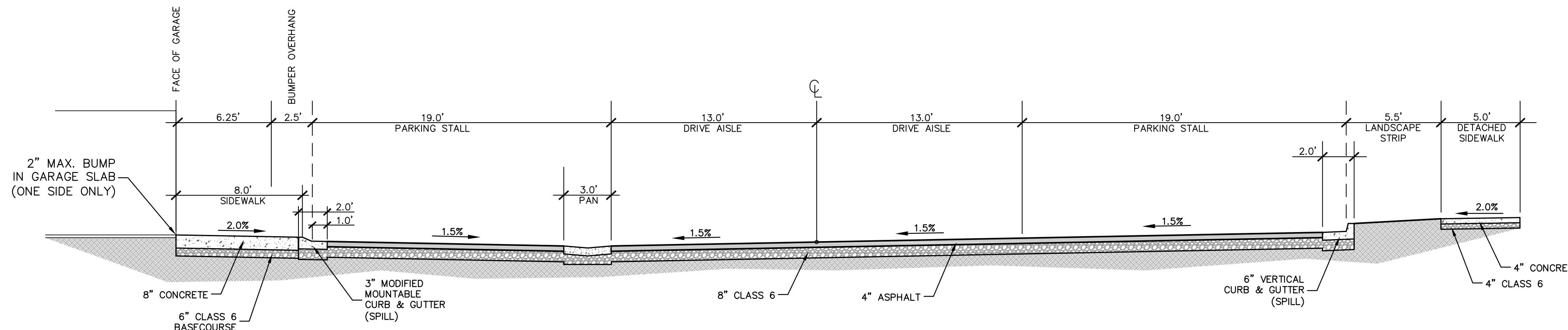
MEADOW FIELDS

HAYMEADOW FILLING 1

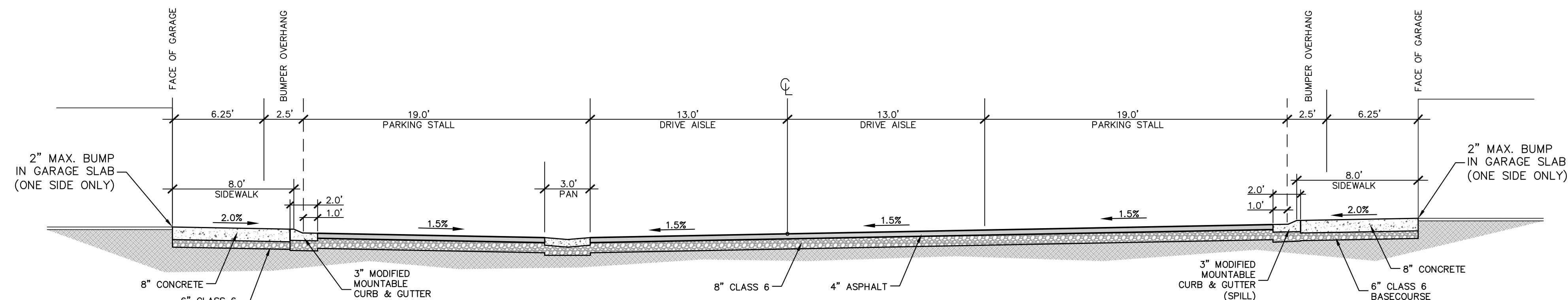
RMF-1 & RMF-2



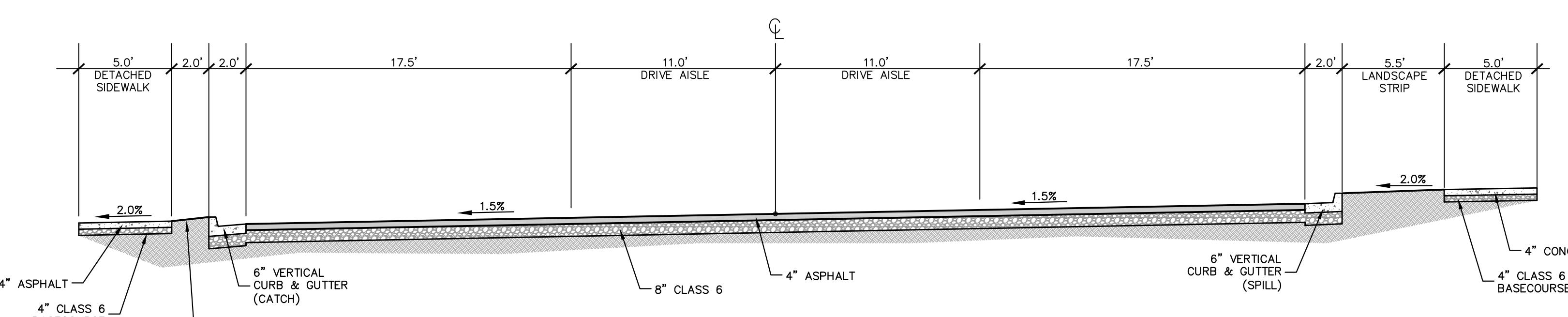
HORSESHOE COURT RIGHT ATTACHED SIDEWALK TYPICAL CROSS SECTION



B HORSESHOE COURT
RIGHT DETACHED SIDEWALK
TYPICAL CROSS SECTION

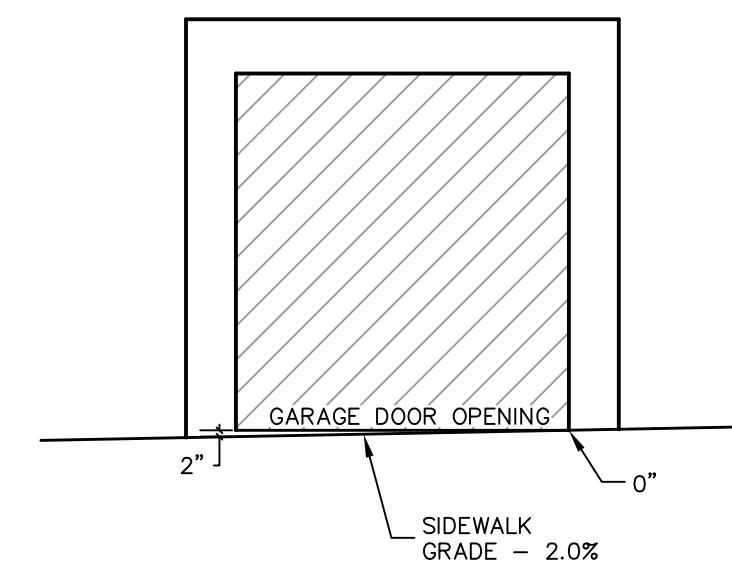


HORSESHOE COURT GARAGES BOTH SIDES TYPICAL CROSS SECTION

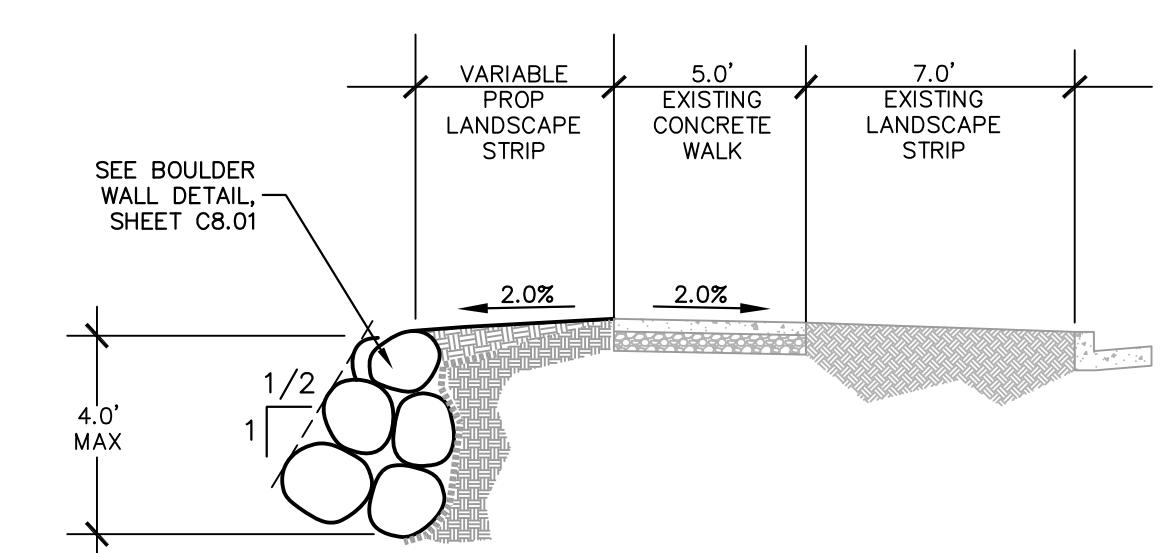


PARKING LOT

TYPICAL CROSS SECTION

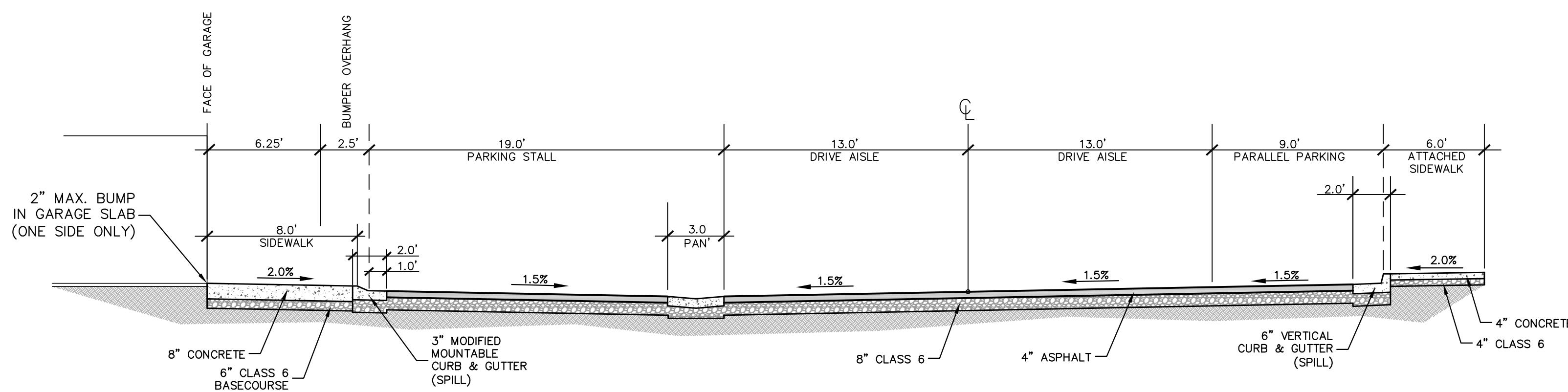


GARAGE DOOR STEP TYPICAL CROSS SECTION

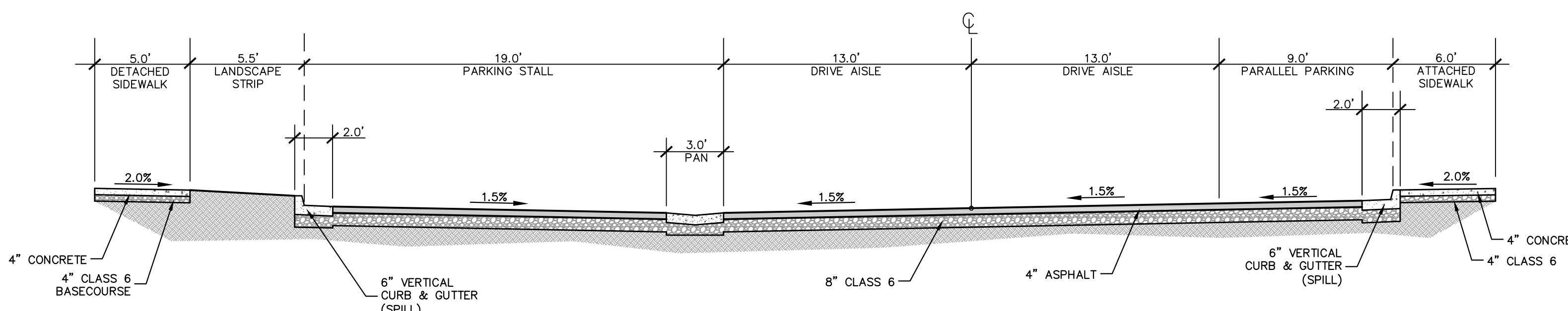


MT. HOPE BOULDER WALL

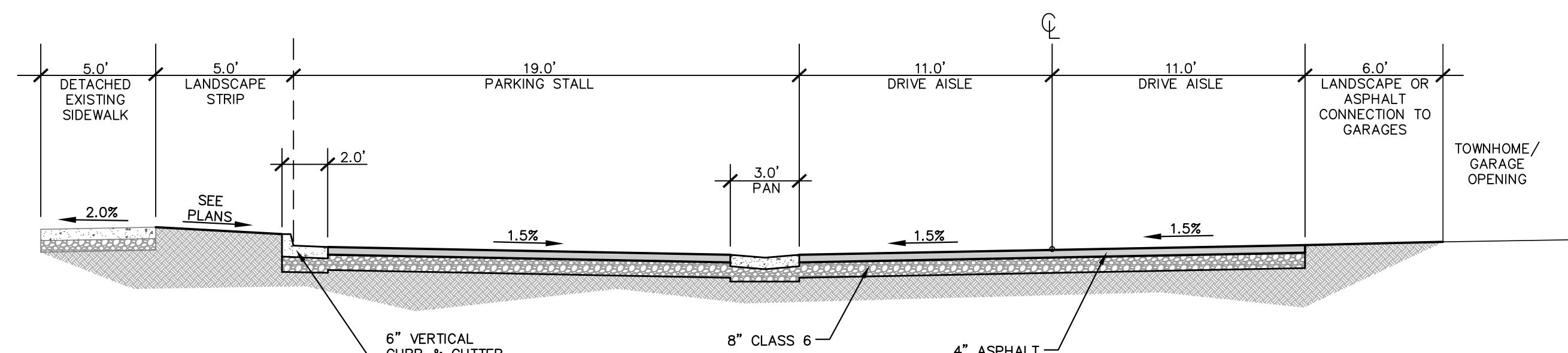
TYPICAL SECTION



A SNOWY PEAK CIRCLE
TYPICAL CROSS SECTION

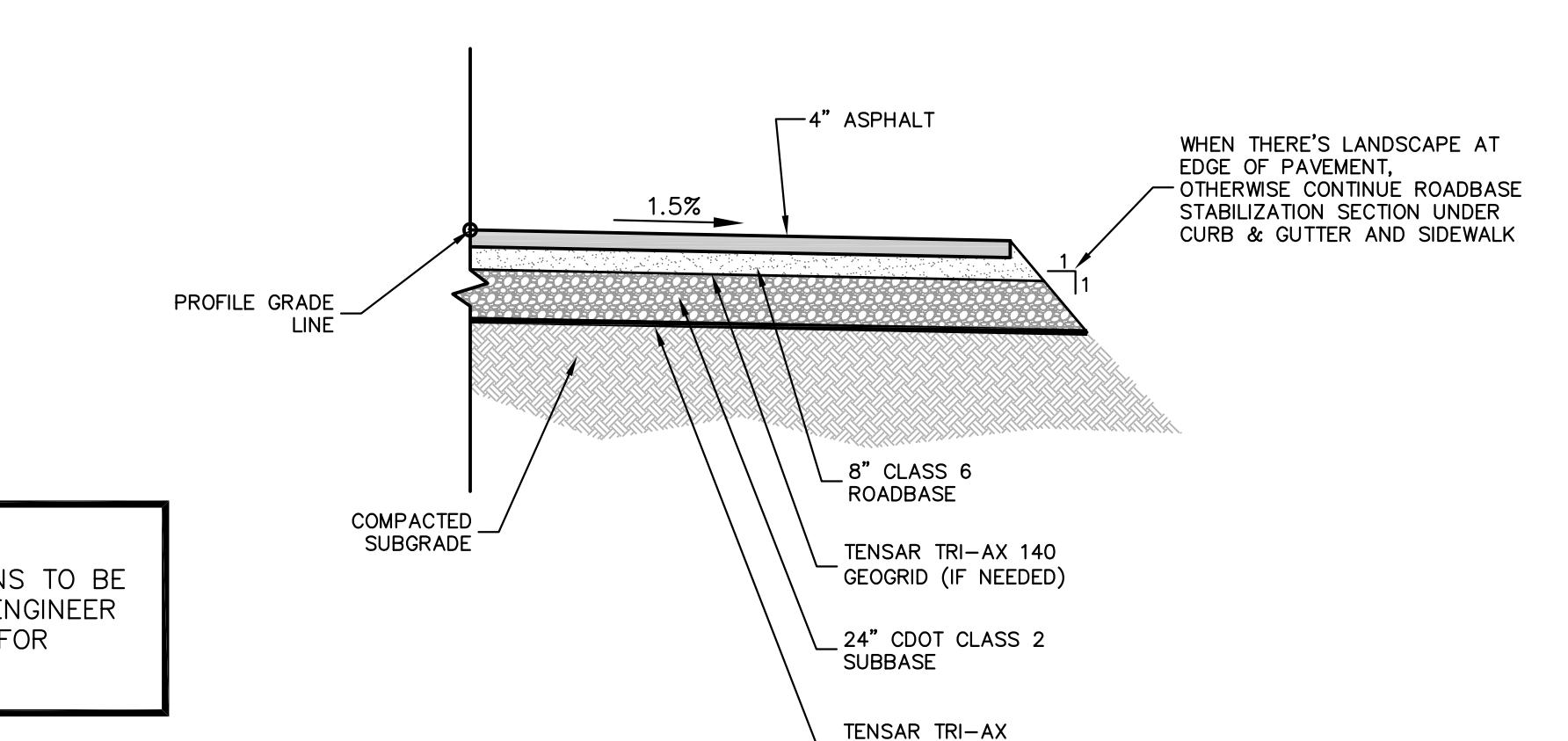


B SNOWY PEAK CIRCLE
TYPICAL CROSS SECTION



C RMF-2
TYPICAL CROSS SECTION

NOTES:
1. ROADWAY STABILIZATION STATIONS TO BE DETERMINED BY GEOTECHNICAL ENGINEER
2. REFER TO EACH ROAD SECTION FOR LANE WIDTHS/SLOPES, ETC.



D TYPICAL ROADWAY STABILIZATION SECTION
HP KUMAR FIGURE 1

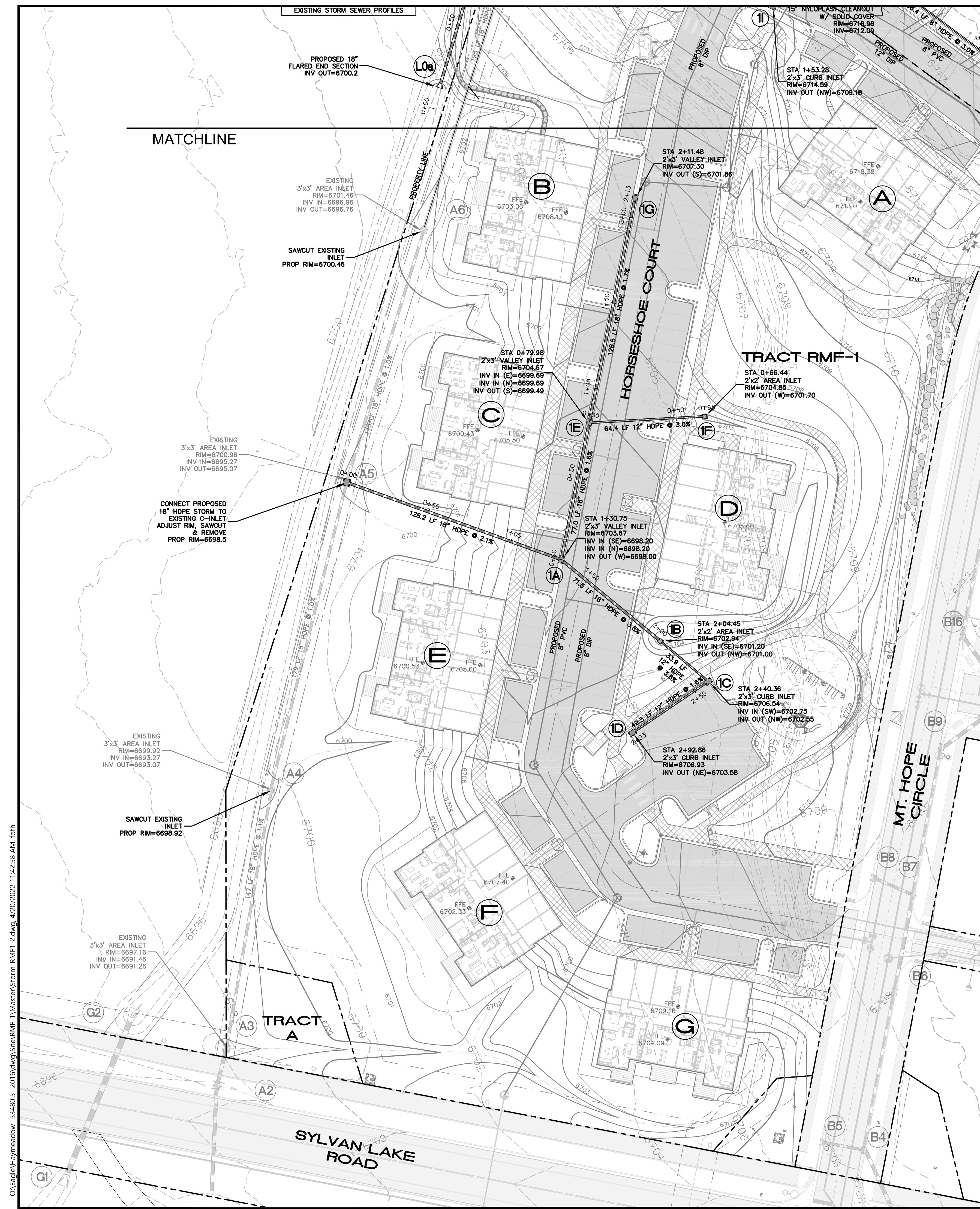
PRELIMINARY
April 20, 2022
NOT FOR CONSTRUCTION

HAYMEADOW FILING 1
RMF-1 & RMF-2
TYPICAL ROAD SECTIONS

ALPINE
ENGINEERING INC.
34510 HWY 6 UNIT A9 / PO BOX 97
EDWARDS CO 80162 970-326-3373
WWW.ALPINECIVIL.COM

SHEET
C2.06

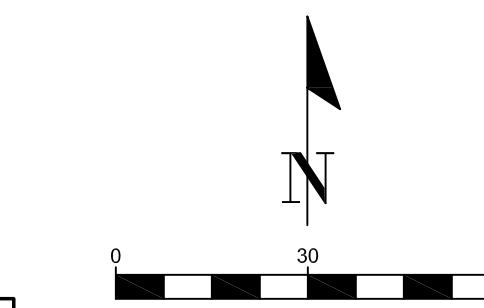
| DESIGNED | GLB, RIF | NO. | DATE | REVISIONS | BY |
|----------|------------|-----|------------|--------------------------|-----|
| DRAWN | GLB, RIF | 1 | 01/06/2022 | MAJOR DEVELOPMENT PERMIT | GLB |
| | | 2 | 04/24/2022 | MDP-RESPONSE TO COMMENTS | GLB |
| CHECKED | MCW | | | | |
| JOB NO. | 53480.5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



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

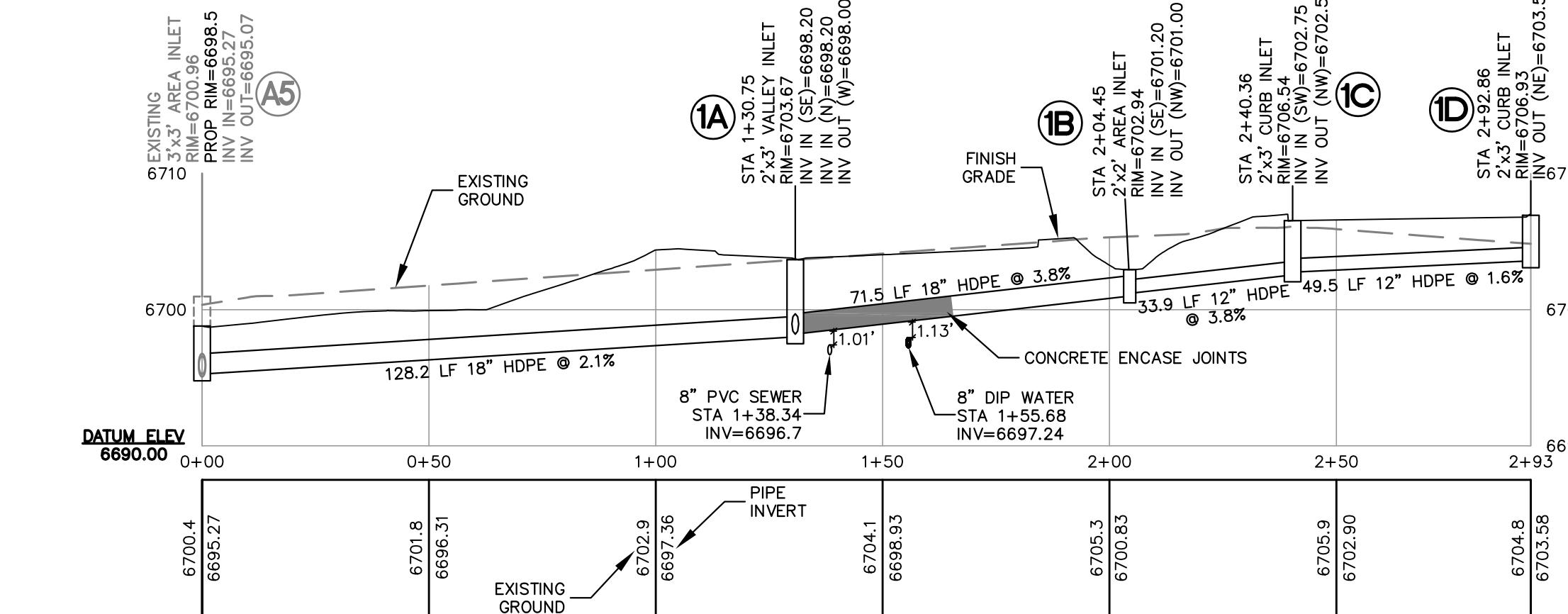
AT WATER CROSSINGS, CONCRETE ENCASE THE BELL/SPIGOT GASKETED JOINTS OF HDPE STORM 10' BOTH SIDES OF CROSSING (TYP) PER SECTION 4.07—TOE PUBLIC WORKS MANUAL



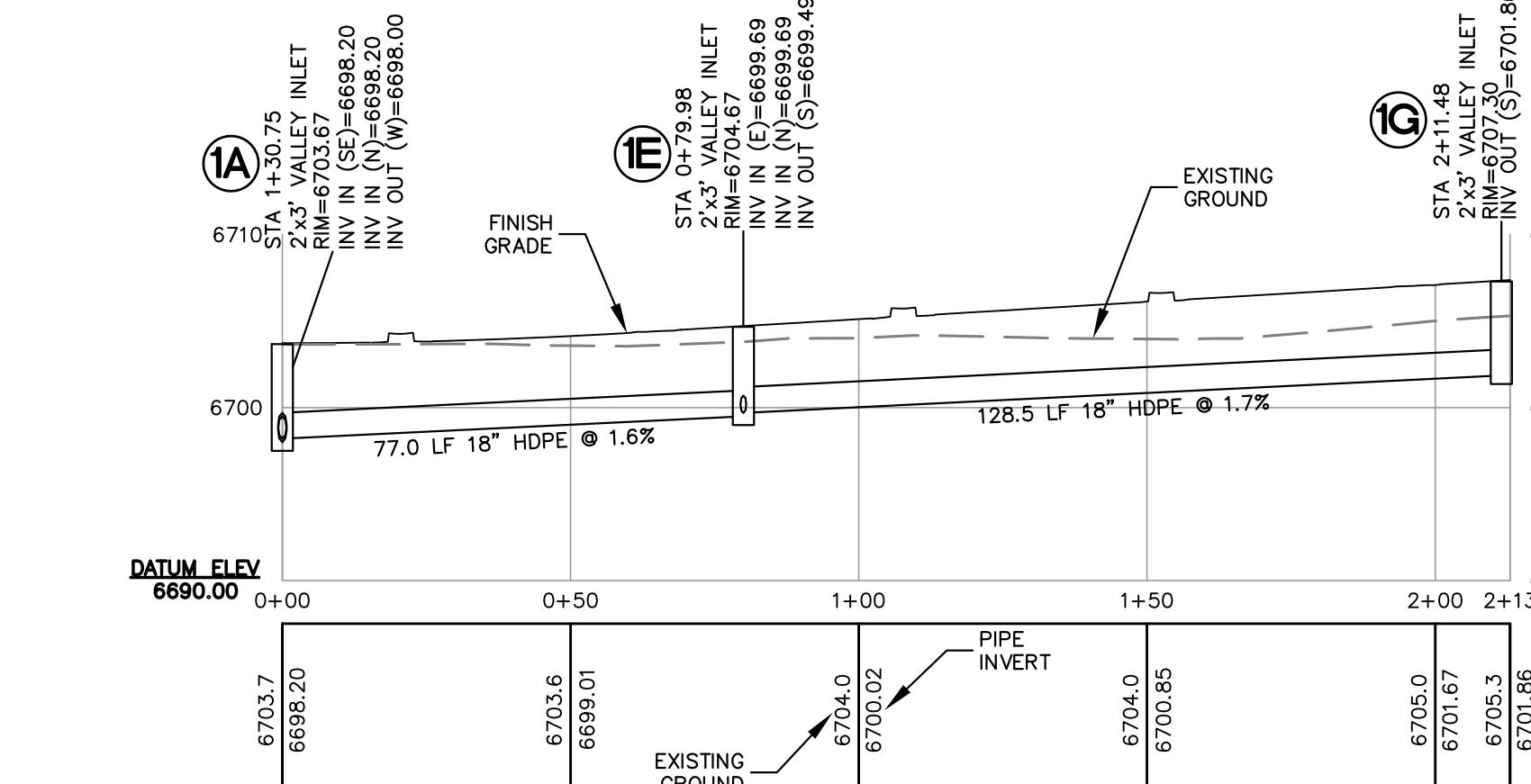
| | |
|------|---|
| 6715 | EXISTING CONTOUR |
| 6712 | PROPOSED CONTOUR |
| 6710 | PROPOSED ROADWAY |
| 6708 | TRACT BOUNDARY |
| 6706 | STRUCTURE NUMBER |
| 6704 | PROPOSED DRAINAGE EASEMENT |
| 6702 | PROPOSED WATER MAIN |
| 6700 | PROPOSED SEWER MAIN |
| 6698 | PROPOSED STORM SEWER PIPE |
| 6696 | FLARED END SECTION |
| 6694 | PROPOSED STORM 2'x3' VALLEY & CURB INLETS |
| 6692 | PROPOSED 2'x2' AREA INLET, EXIST 3'x3' AREA INLET |
| 6690 | PROPOSED STORM MANHOLE |
| 6688 | EXISTING DRAINAGE EASEMENT |
| 6686 | EXISTING CONTOUR |

PRELIMINARY
April 20, 2022
NOT FOR CONSTRUCTION

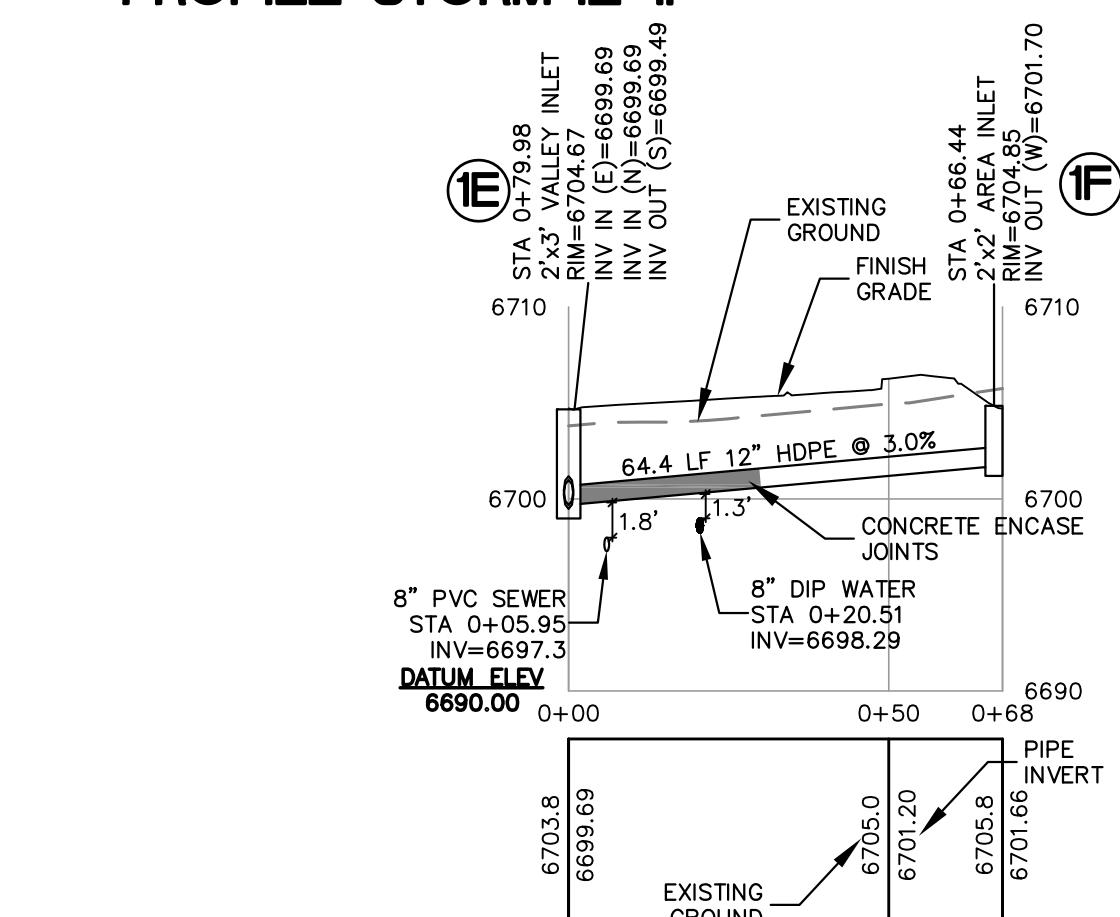
PROFILE: STORM A5-1D



PROFILE: STORM 1A-1G



PROFILE: STORM 1E-1F

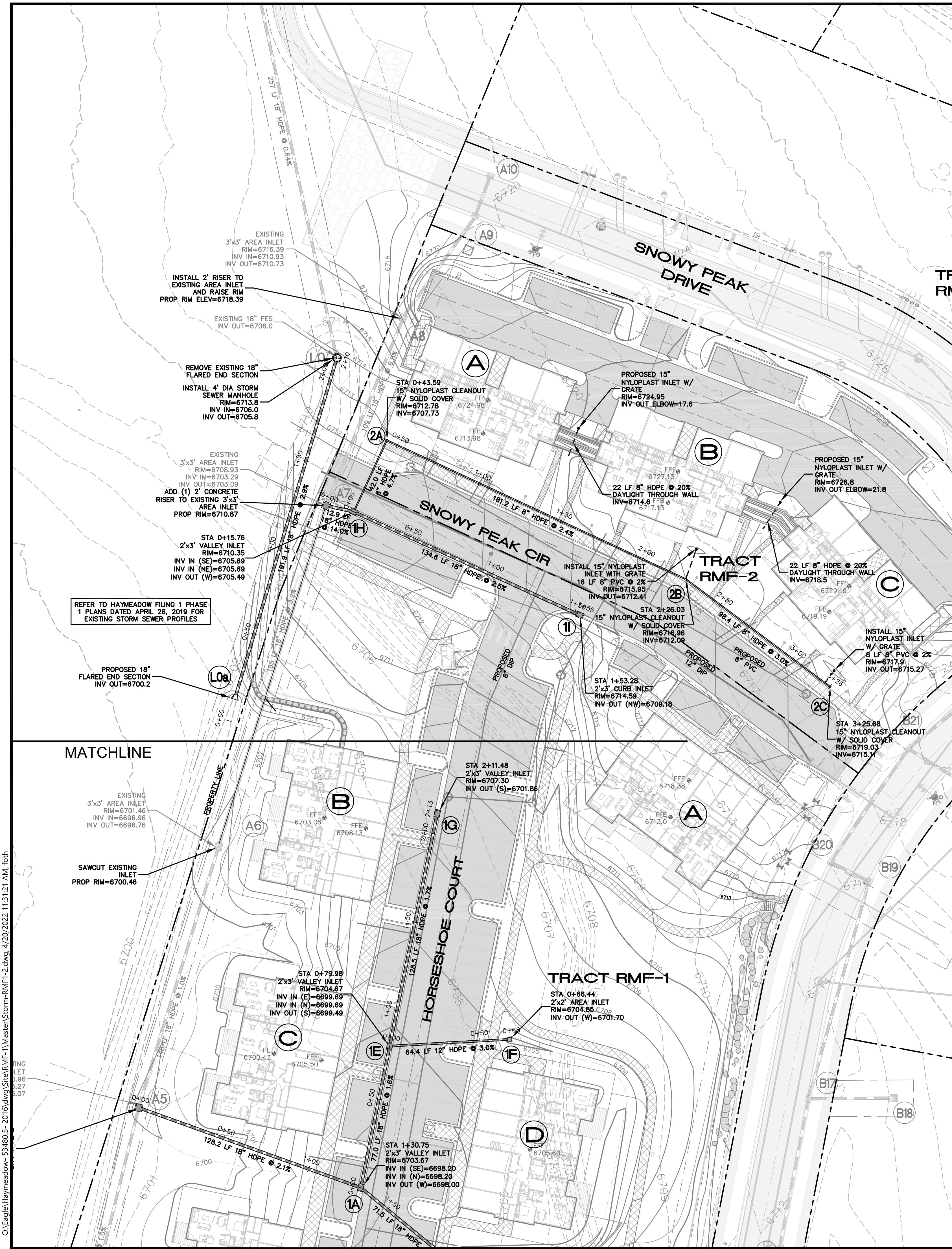


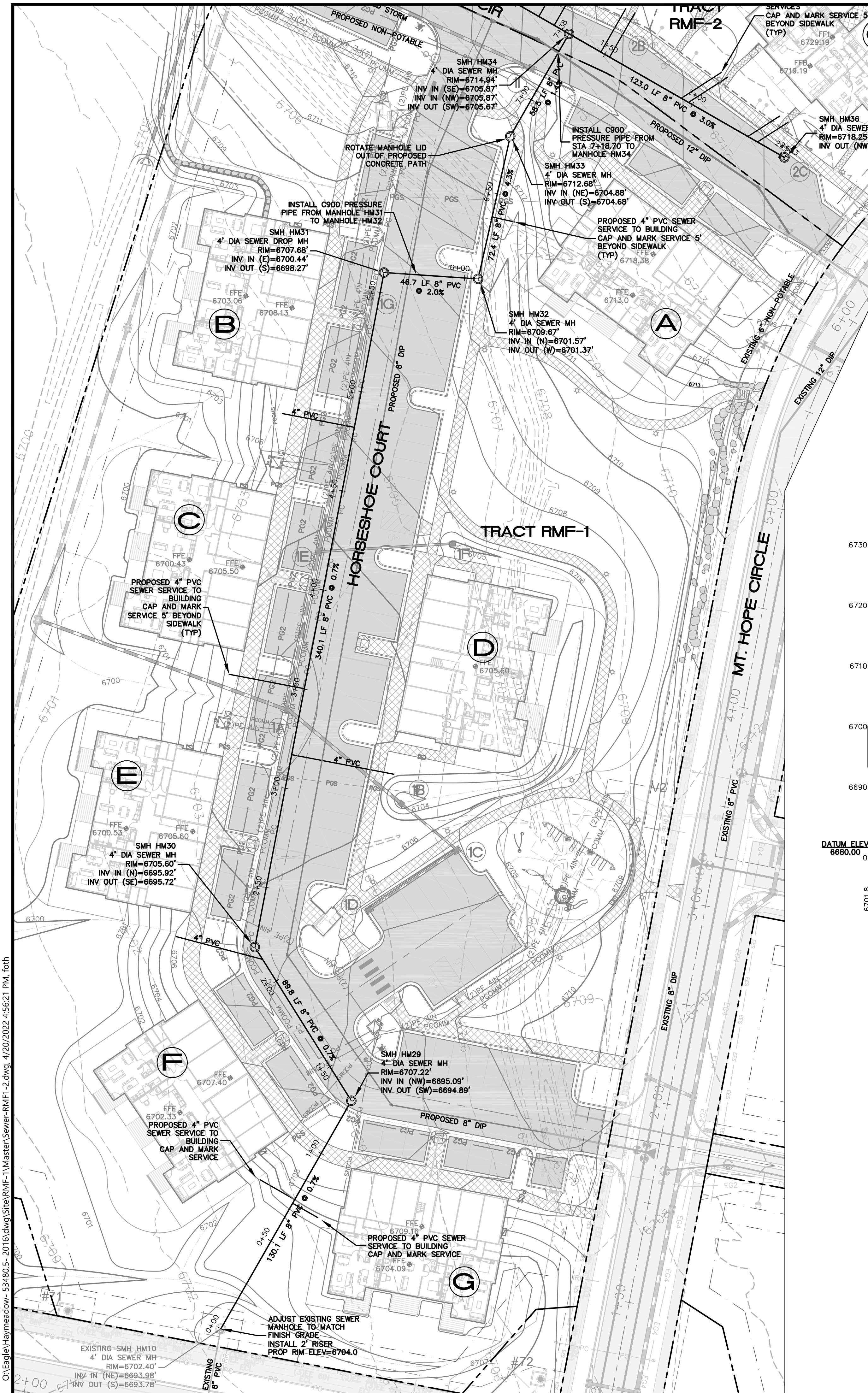
HAYMEADOW FILING 1
RMF-1 & RMF-2
STORM PLAN AND PROFILES

SHEET
C3.01

ALPINE
ENGINEERING INC.
34510 HWY 6 UNIT A9 / PO BOX 97
EDWARDS CO 81632 190263373
WWW.ALPINECIVIL.COM

| | | | |
|-------------------|-----|------------|--------------------------|
| DESIGNED GLB, RIF | NO. | DATE | REVISIONS |
| DRAWN GLB, RIF | 1 | 01/06/2022 | MAJOR DEVELOPMENT PERMIT |
| CHECKED MCW | 2 | 04/24/2022 | MDP—RESPONSE TO COMMENTS |
| JOB NO. 53380.5 | | | |
| DATE 07/24/2021 | | | |





U:\Eagle\Haymeadow-33480\5-2016\avg\SiteRMF-1\Master\Sewer-RMFI 1-2awg, 4\ZU\ZUZZ 4:56:21 PM, 10/

• C

IN ACCORDANCE WITH CURRENT TOE PUBLIC WORKS
MANUAL (JAN 2018–SECTION 1.08), INSTALL C-90
WITH HARCO COUPLERS 10' BOTH SIDES OF WATER
LINE AT CROSSINGS

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

ROTATE SEWER MANHOLE LIDS OUT
WHEEL PATH

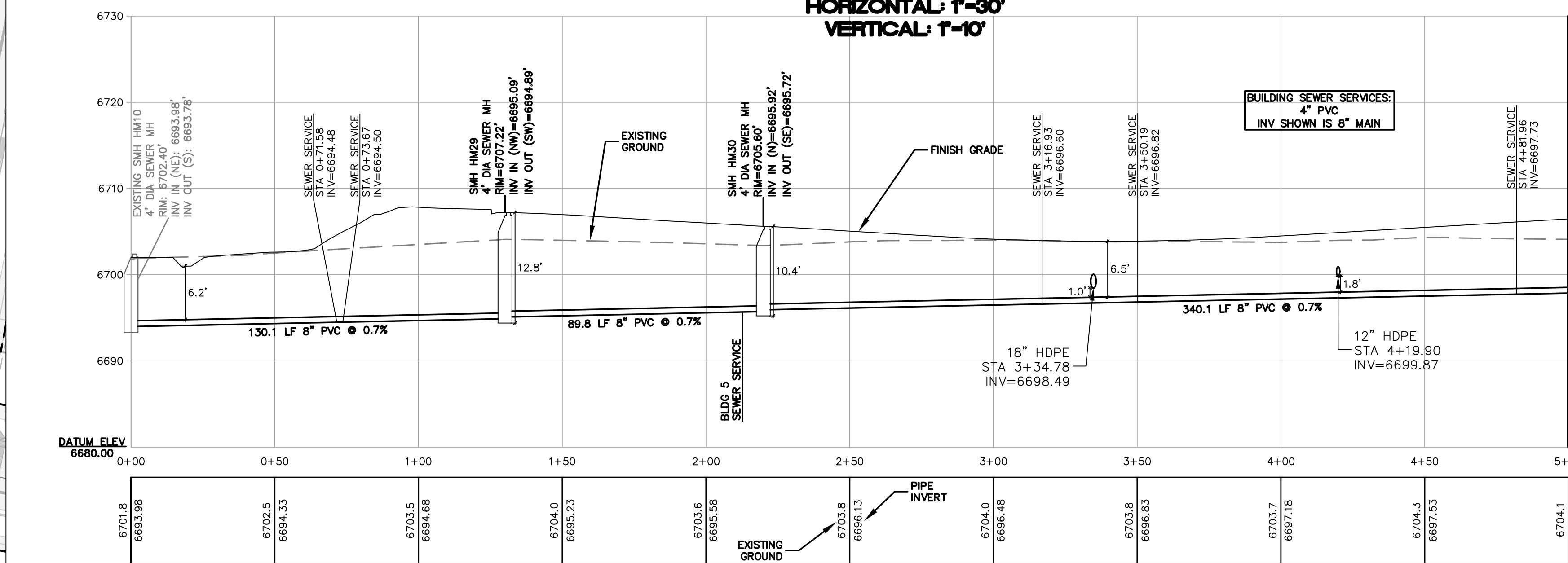
LEGEN

- PROPOSED WATER MAIN
- PROPOSED WATER SERVICE
-  PROPOSED FIRE HYDRANT ASSEMBLY
-  PROPOSED SANITARY SEWER MAIN W/ MANHOLE
- PROPOSED SANITARY SEWER SERVICE
-  PROPOSED STORM SEWER & INLETS
- 6712 PROPOSED RAW WATER
- PROPOSED CONTOUR
-  PROPOSED ROADWAY
- EXISTING WATER
- EXISTING SEWER
- EXISTING RAW WATER
- 6712 — — EXISTING CONTOUR
- — — — — TRACT BOUNDARY

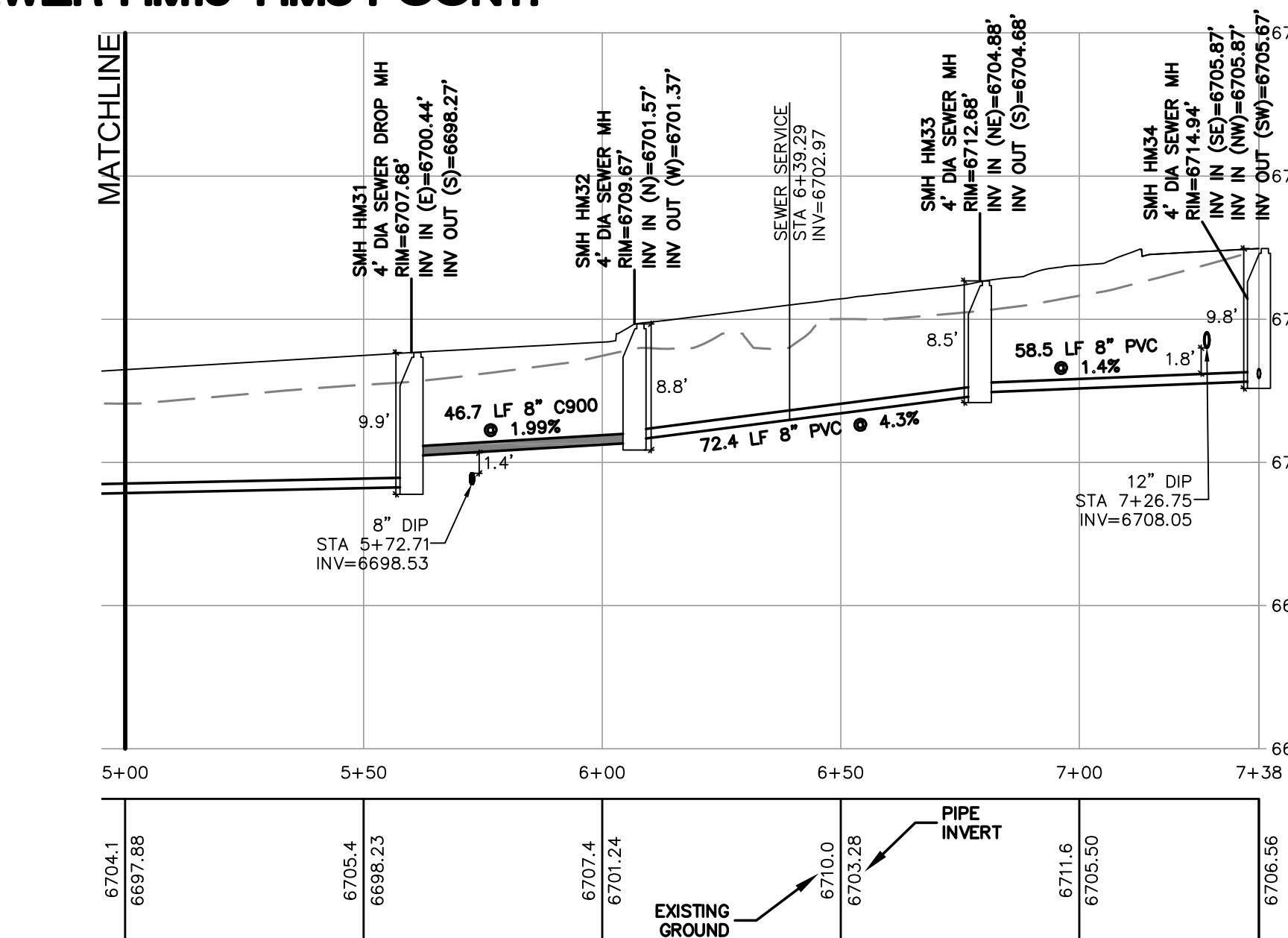
PRELIMINARY
April 20, 2022
NOT FOR CONSTRUCTION

PROFILE: SEWER HM10-HM3

SCALE
HORIZONTAL: 1"-10'
VERTICAL: 1"-10'



PROFILE: SEWER HM10-HM34 CON

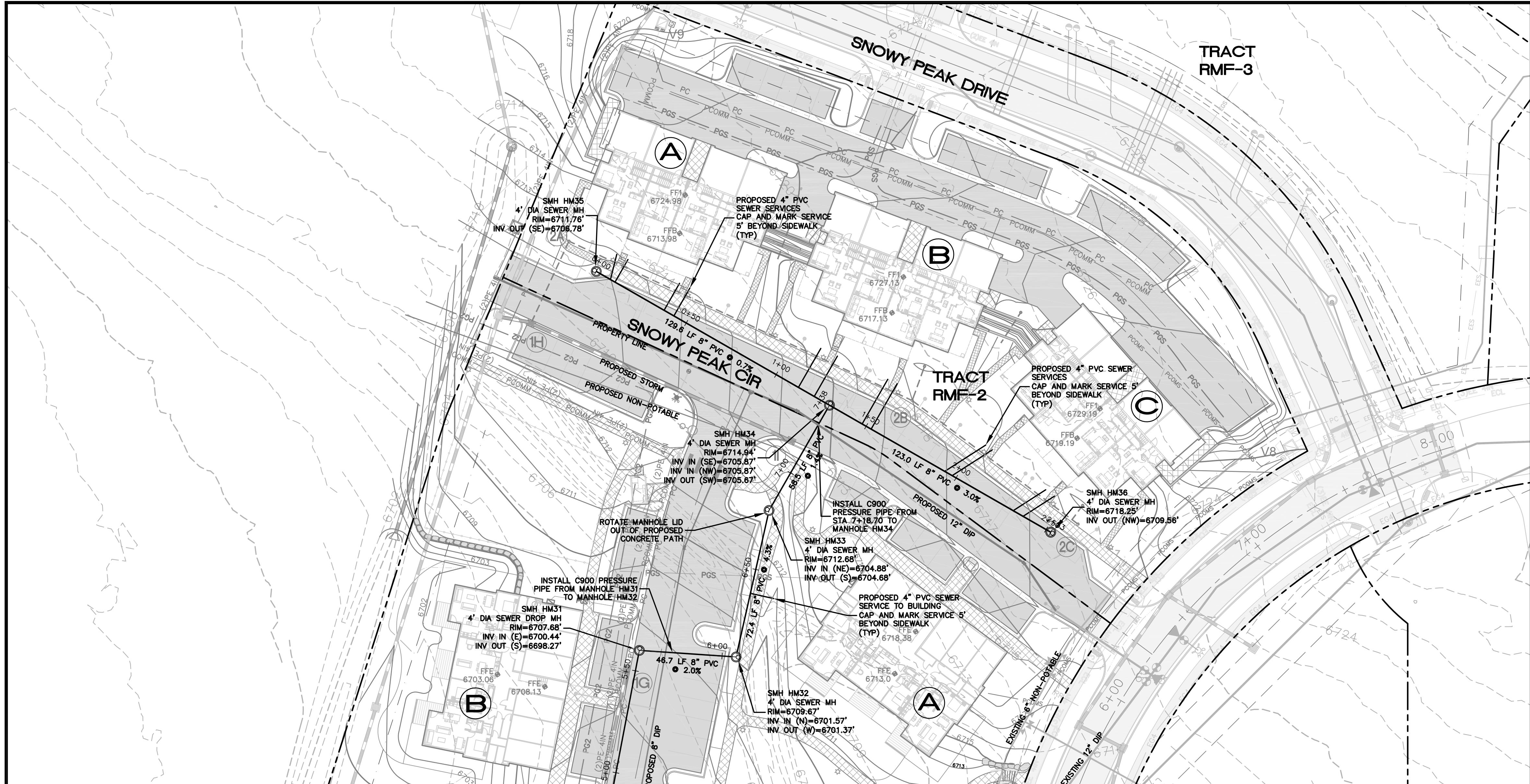


HAYMEADOW FILING

RMF-1 & RMF-2

SEWER PLAN AND PROFILES

SHEET
C1.01



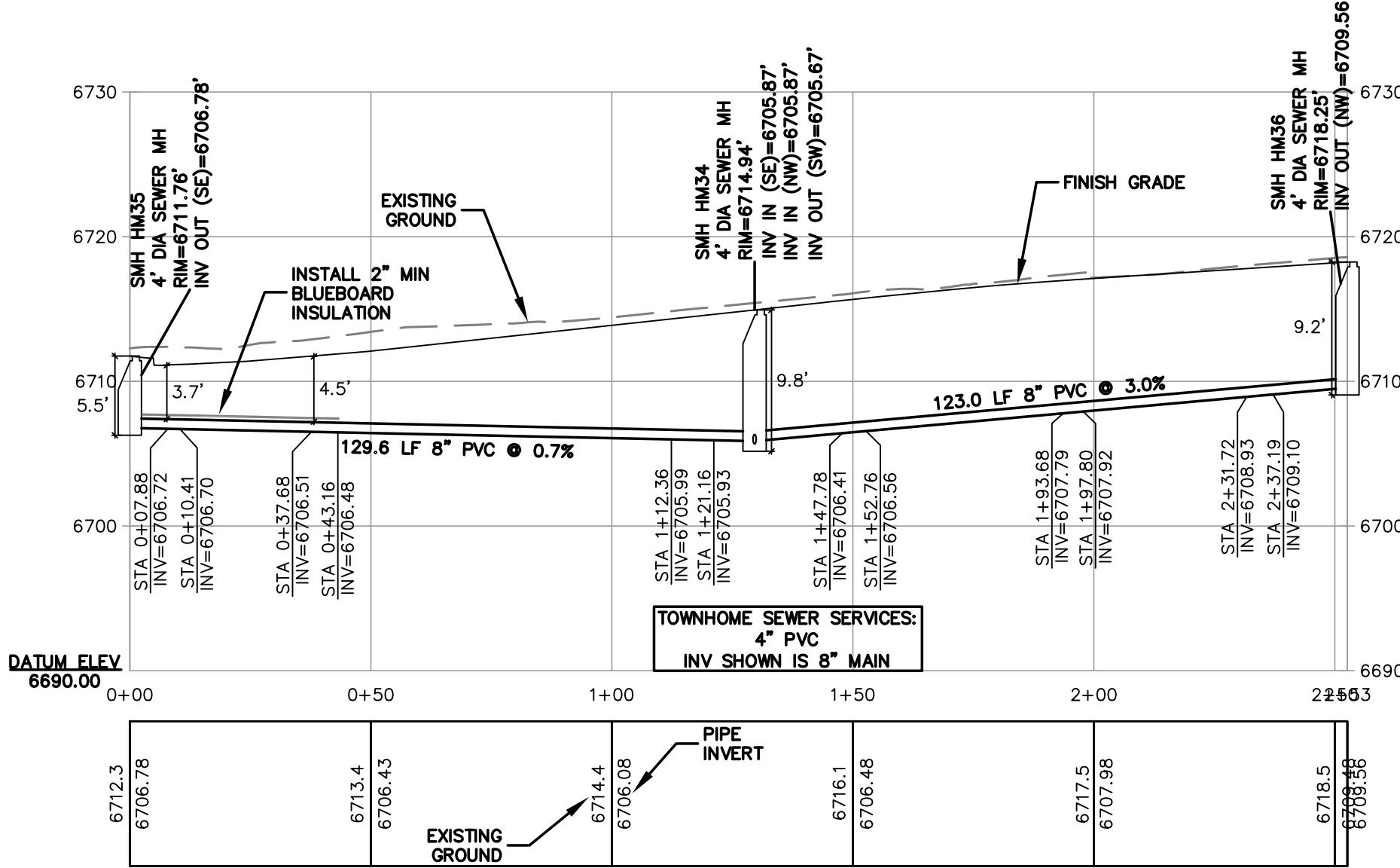
PRELIMINARY
April 20, 2022
NOT FOR CONSTRUCTION

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



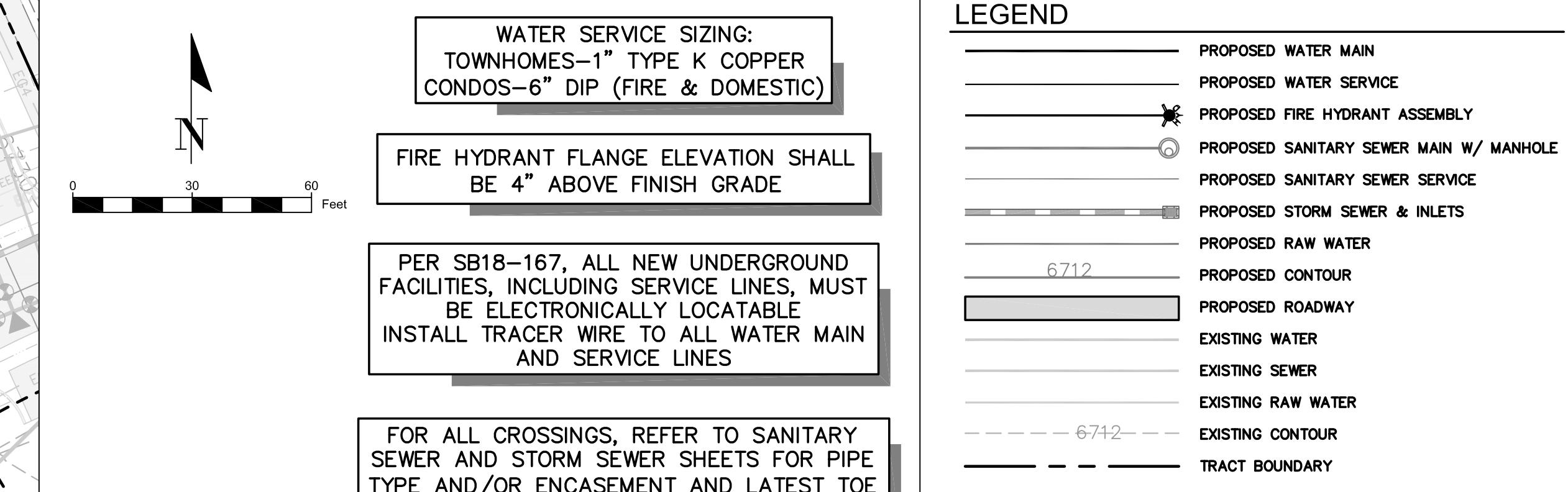
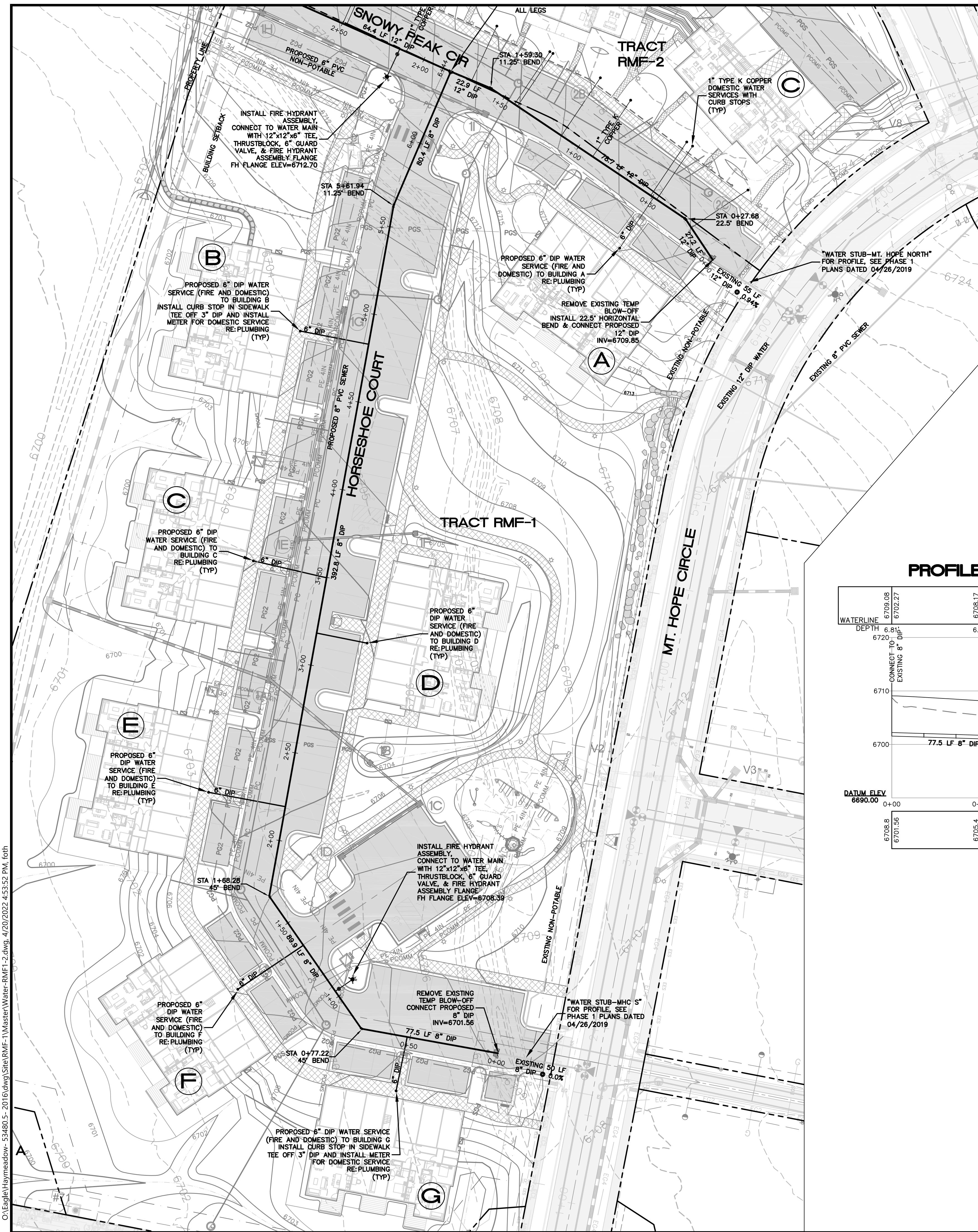
SCALE
HORIZONTAL: 1"-30'
VERTICAL: 1"-10'

HAYMEADOW FILING 1

RMF-1 & RMF-2

SEWER PLAN AND PROFILES

| 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 | | | | |



HAYMEADOW FILING 1 RMF-1 & RMF-2

WATER PLAN AND PROFILES

SHEET
C5.01

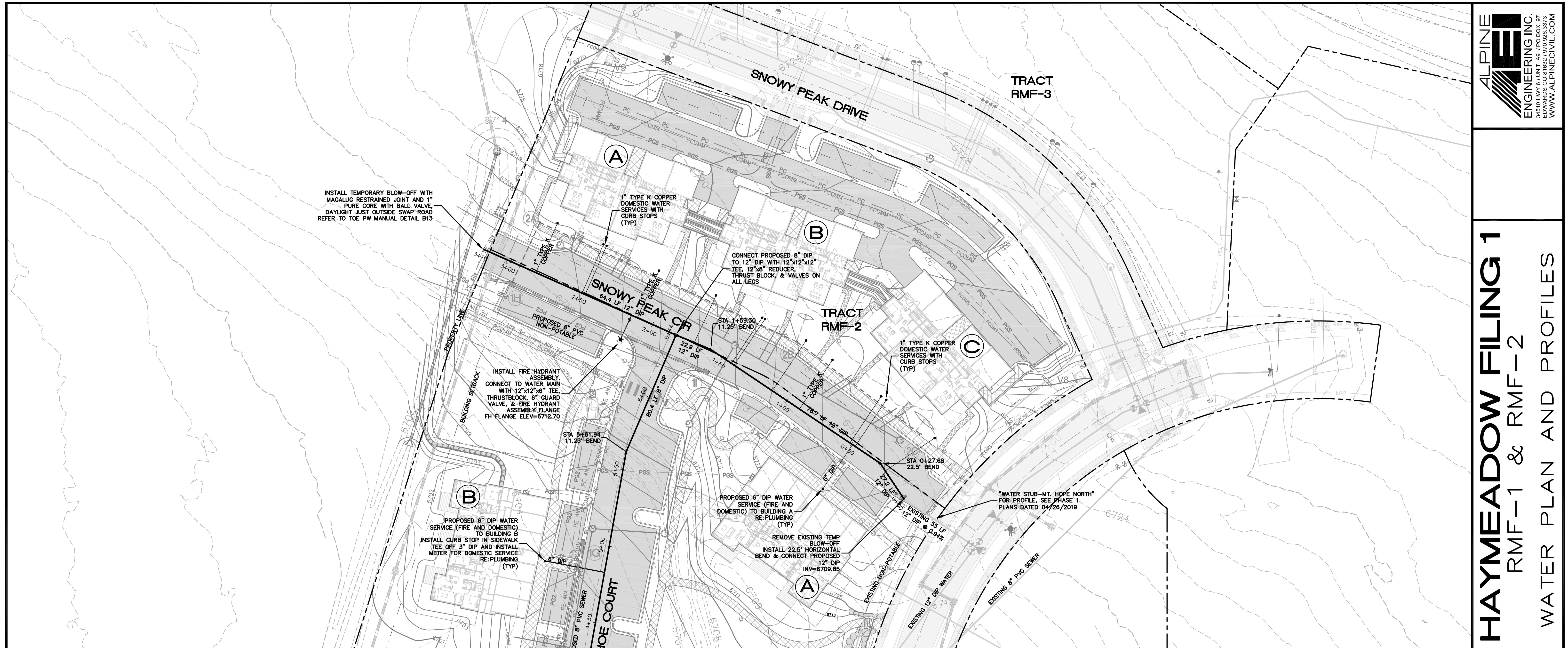
SEE BELOW

SEE ABOVE

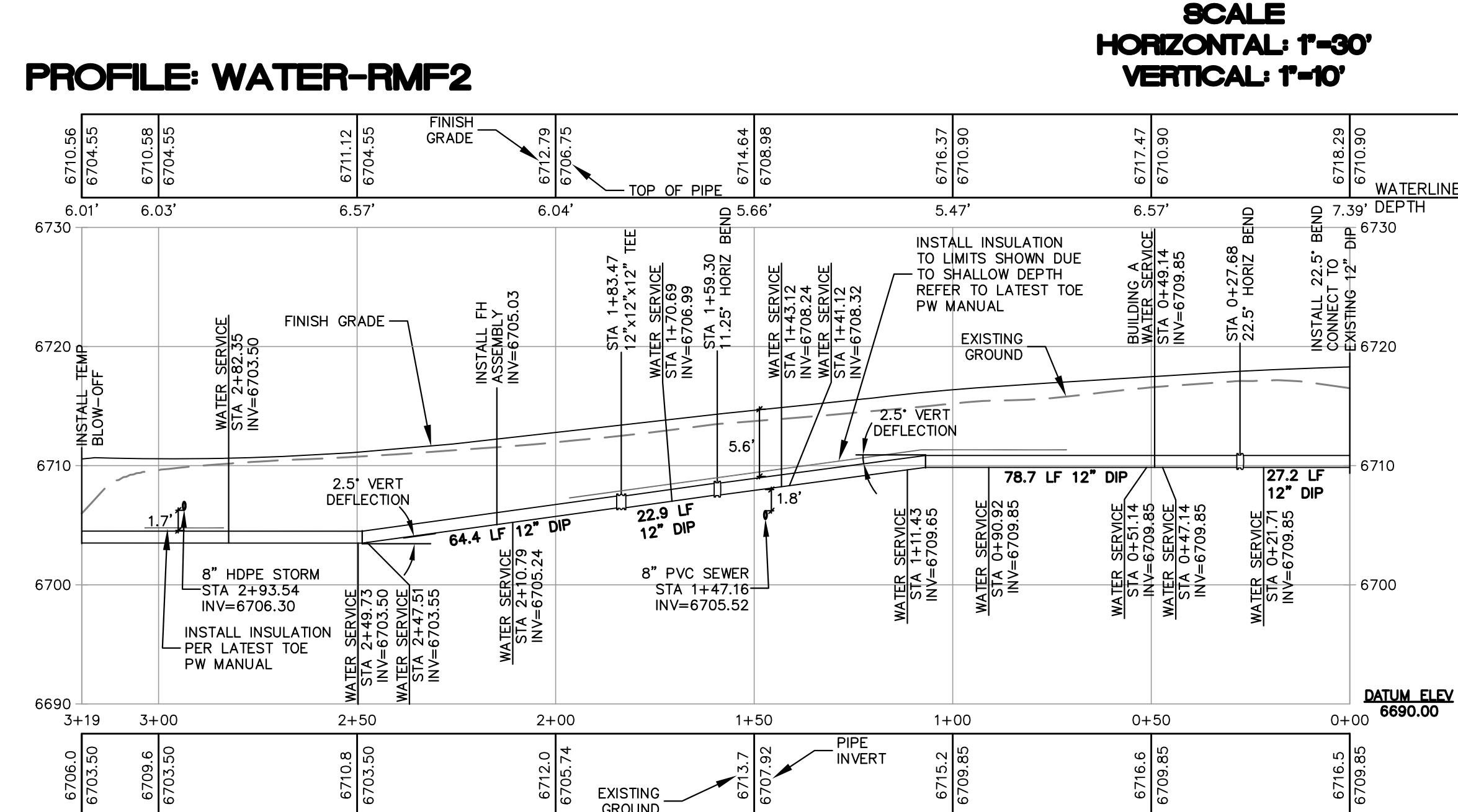
DESIGNED GLB, RIF
DRAWN GLB, RIF
CHECKED MCW

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

JOB NO. 53480.5
DATE 07/24/2021



**PRELIMINARY
April 20, 2022
FOR CONSTRUCTION**



SCALE
HORIZONTAL: 1"-3'
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

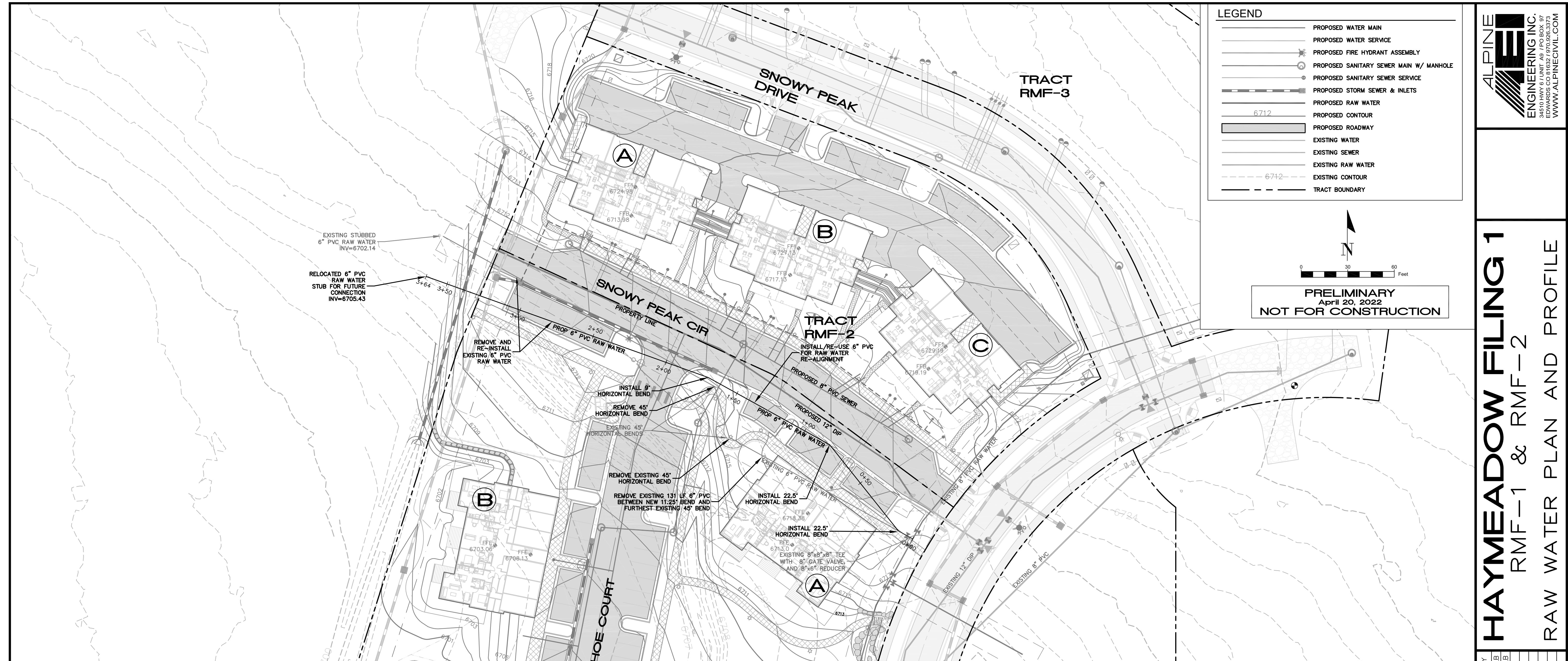
FOR ALL CROSSINGS, REFER TO SANITARY
SEWER AND STORM SEWER SHEETS FOR PIP
TYPE AND/OR ENCASEMENT AND LATEST TO
PW MANUAL (JAN 2018) FOR SPECIFICATION

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

A north arrow pointing upwards and a scale bar.

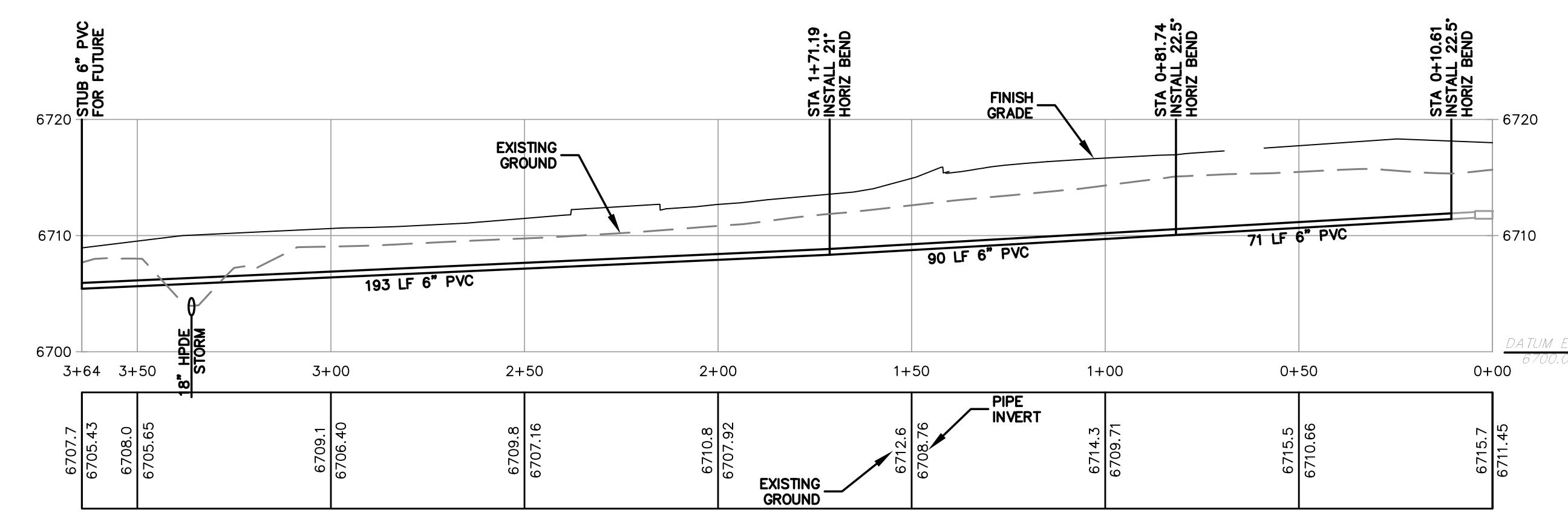
| LEGEND | |
|---|---|
| <hr/> | PROPOSED WATER MAIN |
| <hr/> | PROPOSED WATER SERVICE |
|  | PROPOSED FIRE HYDRANT ASSEMBLY |
|  | PROPOSED SANITARY SEWER MAIN W/ MANHOLE |
| <hr/> | PROPOSED SANITARY SEWER SERVICE |
|  | PROPOSED STORM SEWER & INLETS |
| <hr/> | PROPOSED RAW WATER |
| 6712 | PROPOSED CONTOUR |
|  | PROPOSED ROADWAY |
| <hr/> | EXISTING WATER |
| <hr/> | EXISTING SEWER |
| <hr/> | EXISTING RAW WATER |
| 6712 | EXISTING CONTOUR |
| <hr/> | TRACT BOUNDARY |

SHEET C5.02



PROFILE: EXISTING AND PROPOSED 6" RAW WATER

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



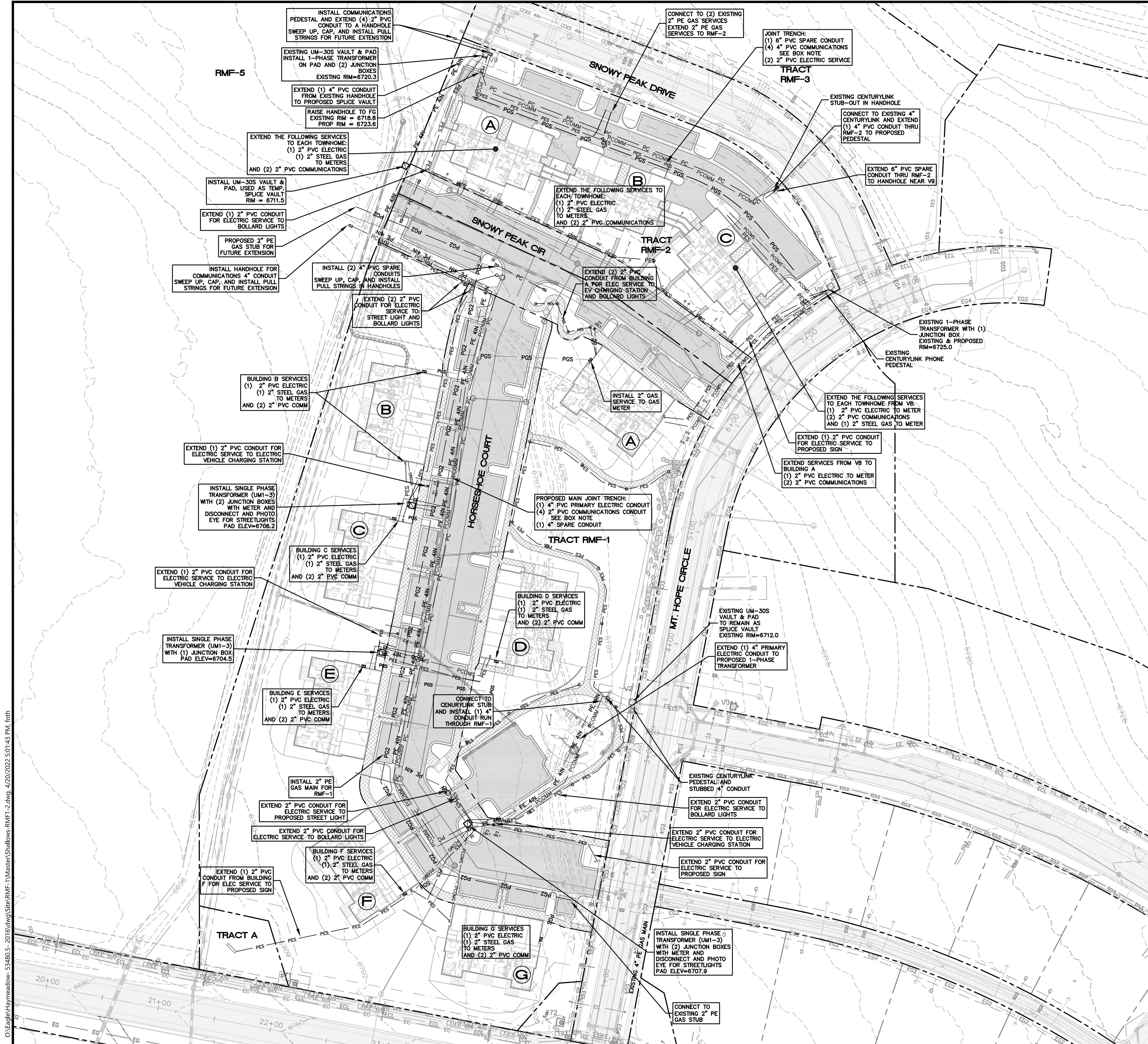
SHEET C6.01

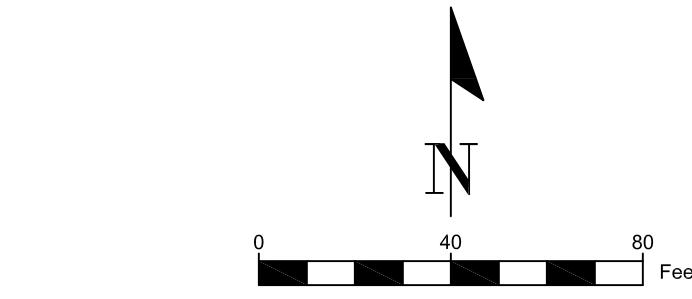
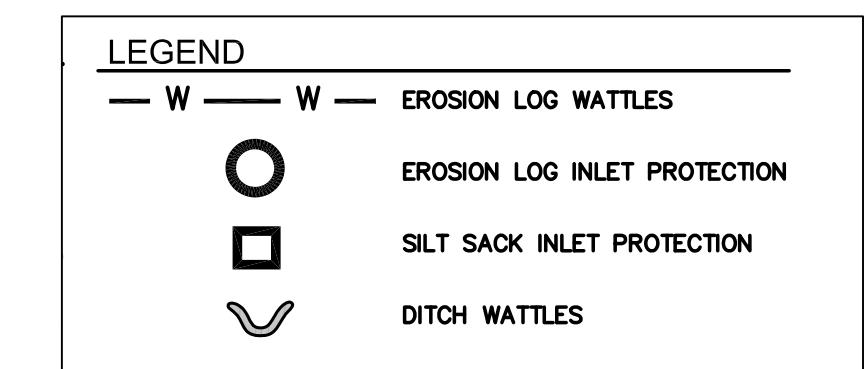
HAYMEADOW FILLING 1

RMF-1 & RMF-2

RAW WATER PLAN AND PROFILE

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





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 PUBLICWAYS.
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 'VEGETATION' ON THIS PLAN MEANS THE SUCCESSFUL GERMINATION AND SUBSEQUENT GROWTH OF CONSIDERATELY PLANTS SEEDED 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.

EUGITIVE 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.

HAYMEADOW FILING 1
RMF-1 & RMF-2
SEDIMENT CONTROL PLAN

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

JOB NO. 53480.5
DATE 07/24/2021

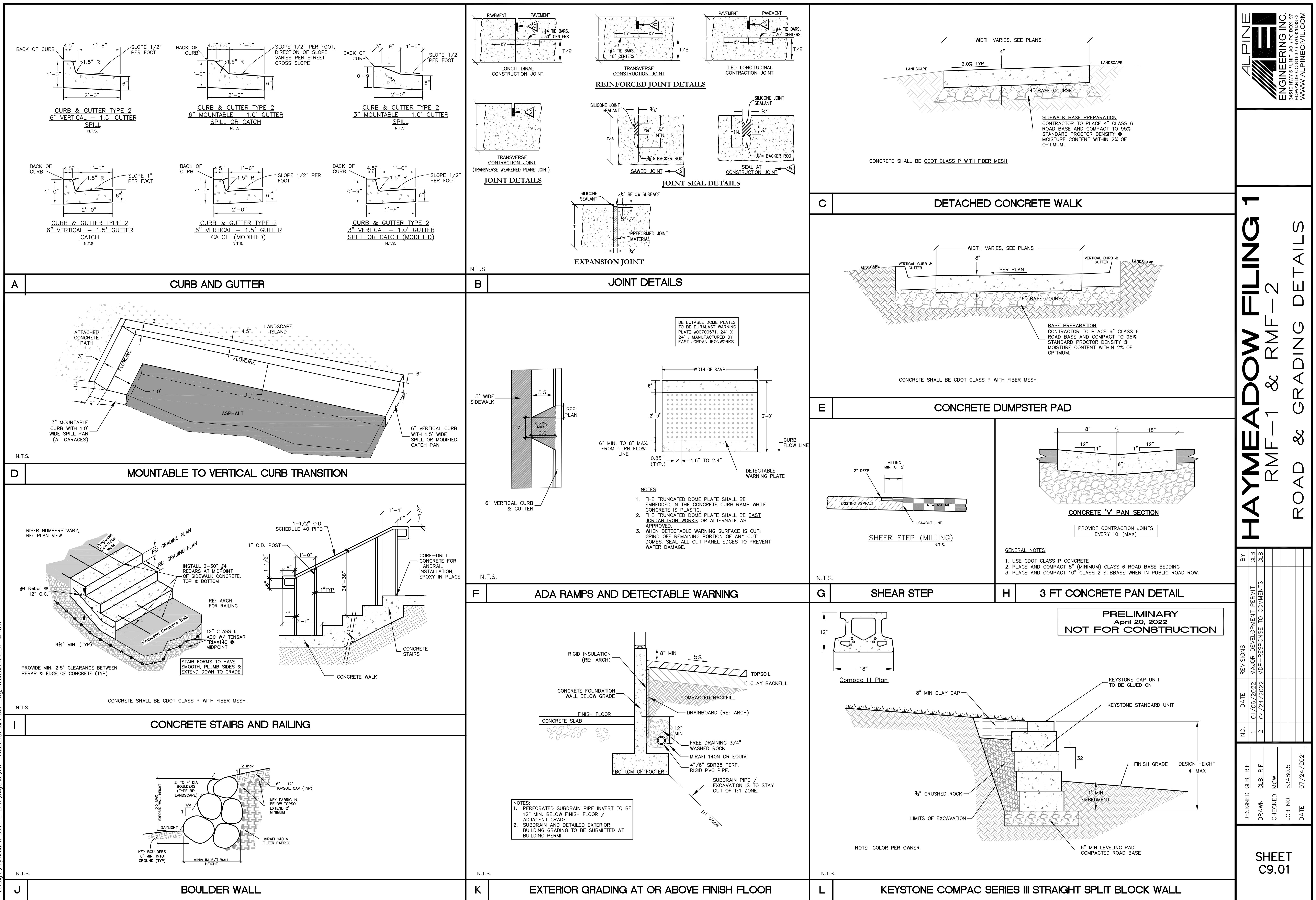
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C8.01

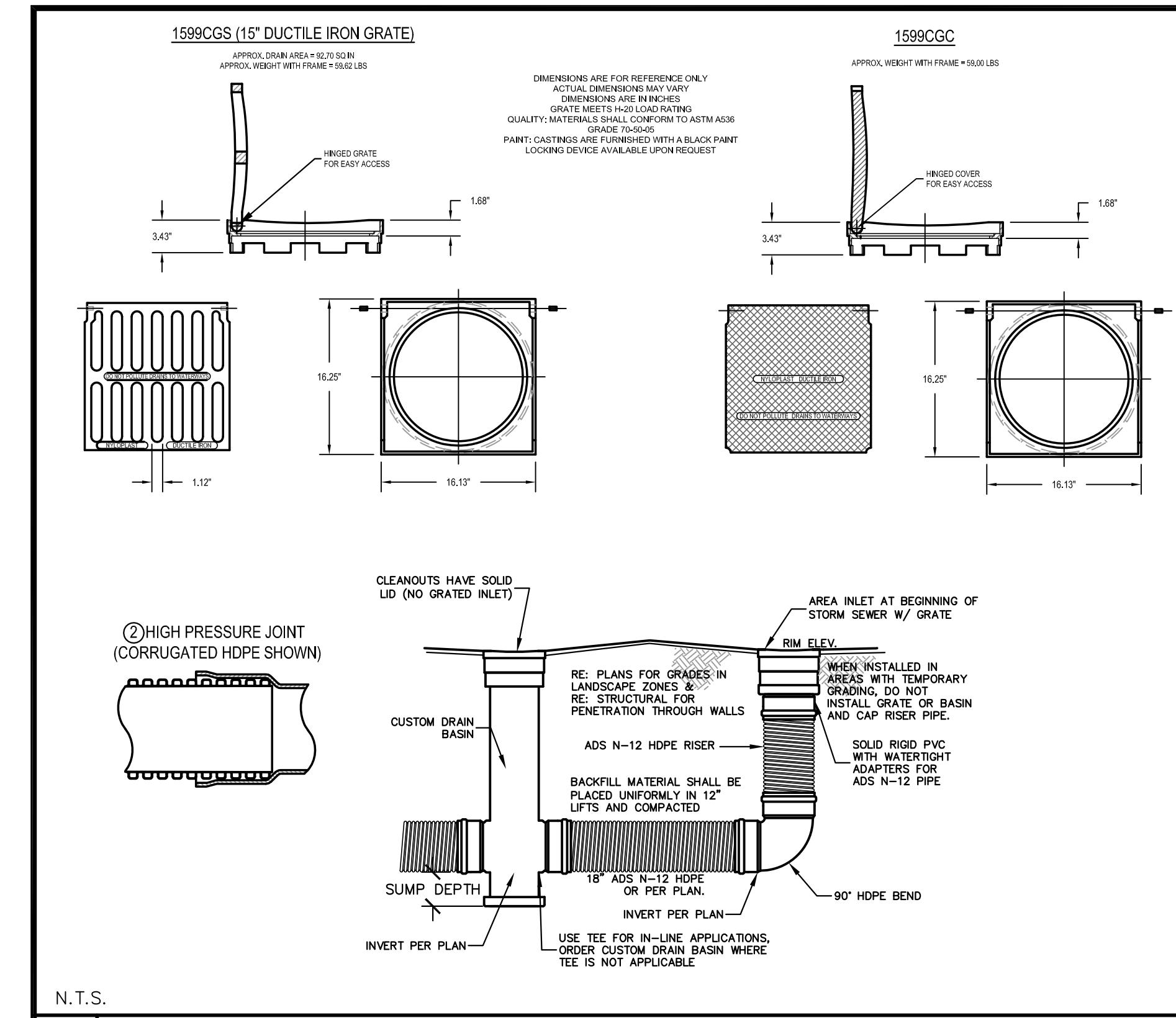
HAYMEADOW FILING 1

RMF-1 & RMF-2

ROAD & GRADING DETAILS

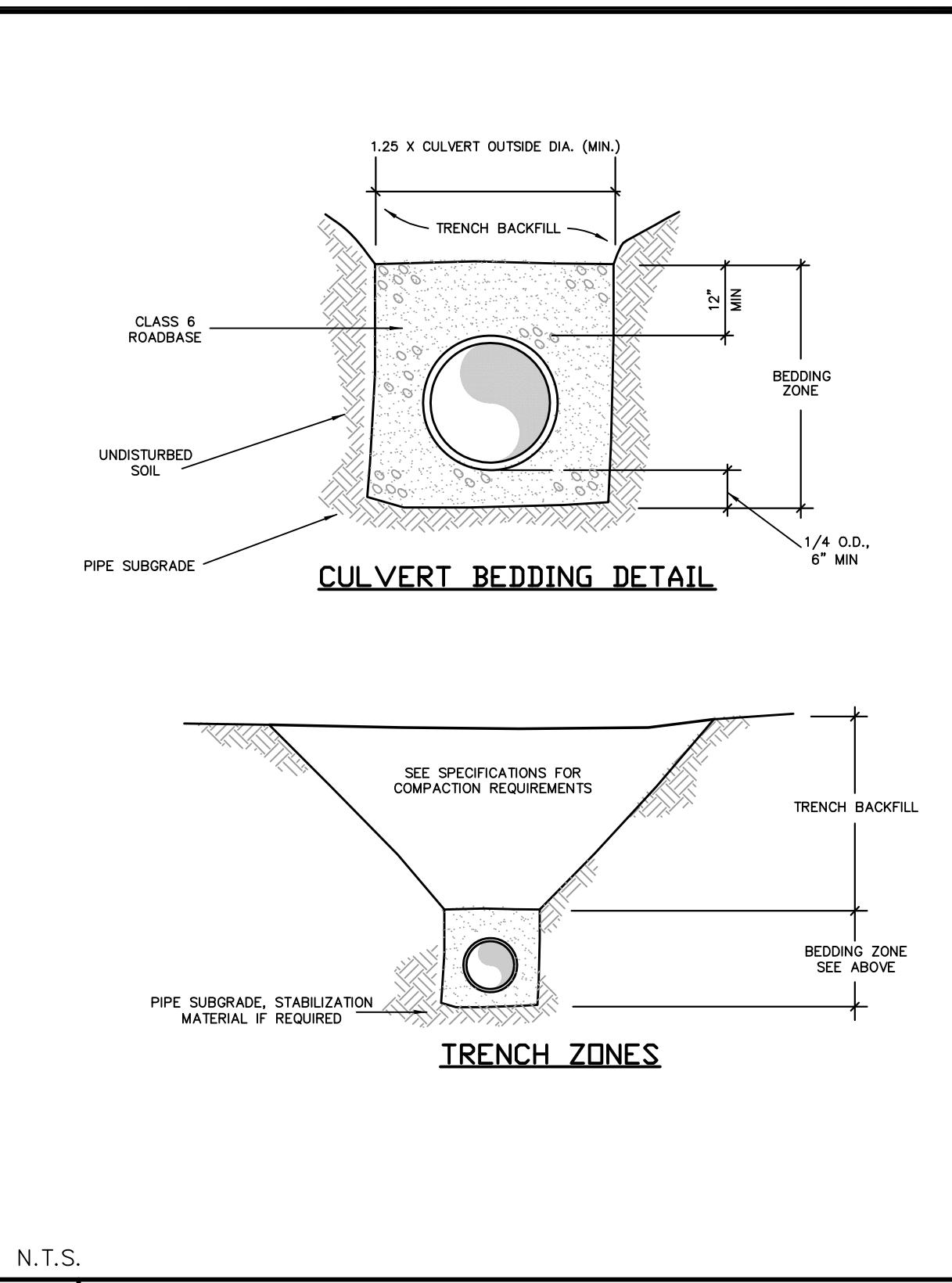
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|------------------------------|-------------------|--|--|--|--|
| DESIGNED | <u>GLB, RIF</u> | | | | |
| DRAWN | <u>GLB, RIF</u> | | | | |
| CHECKED | <u>MCW</u> | | | | |
| JOB NO. | <u>53480.5</u> | | | | |
| DATE | <u>07/24/2021</u> | | | | |
| SHEET C9.01 | | | | | |





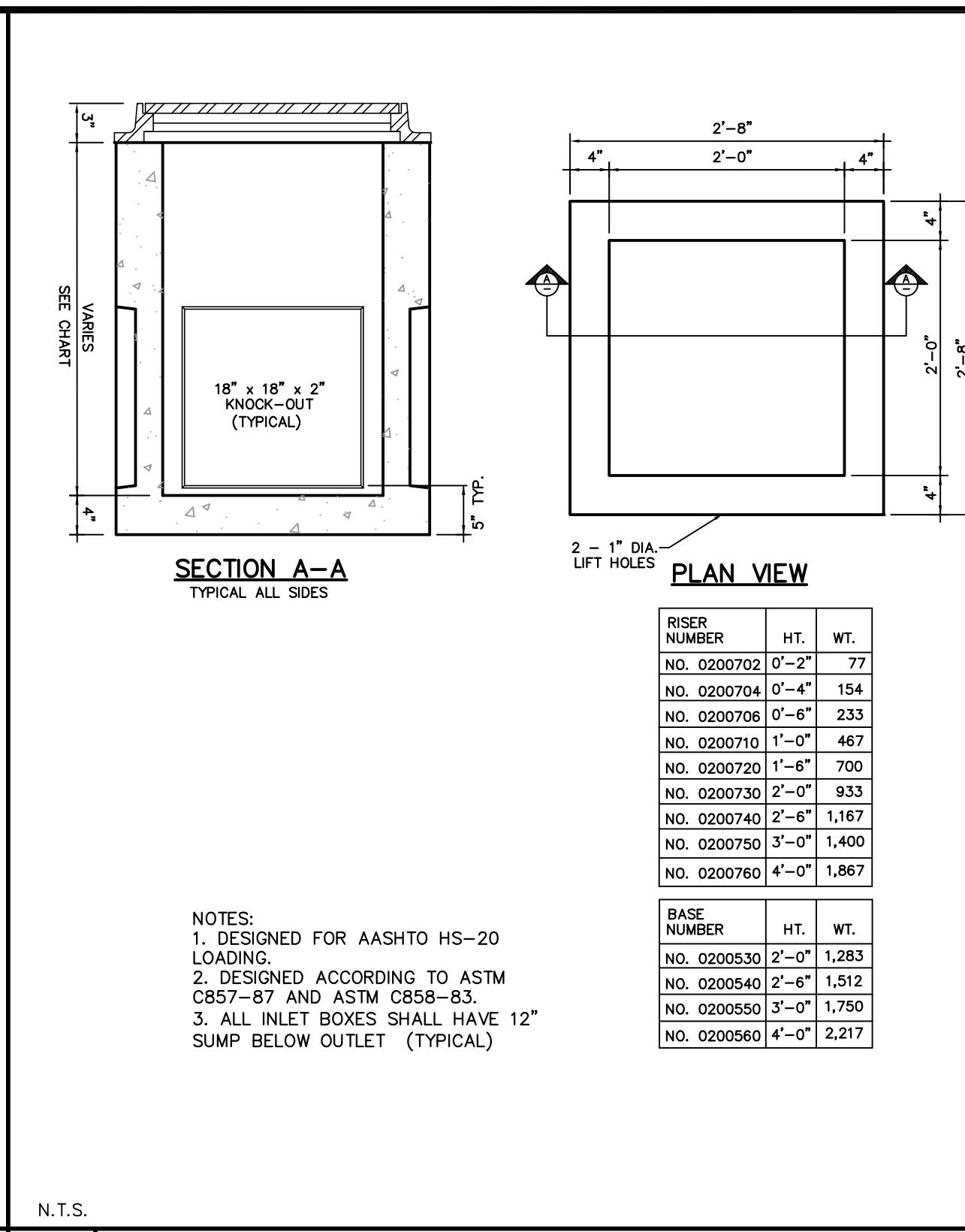
N.T.S.

A NYLOPLAST AREA INLETS (15")



N.T.S

CULVERT BEDDING DETAIL



N.T

2'x2' INLET

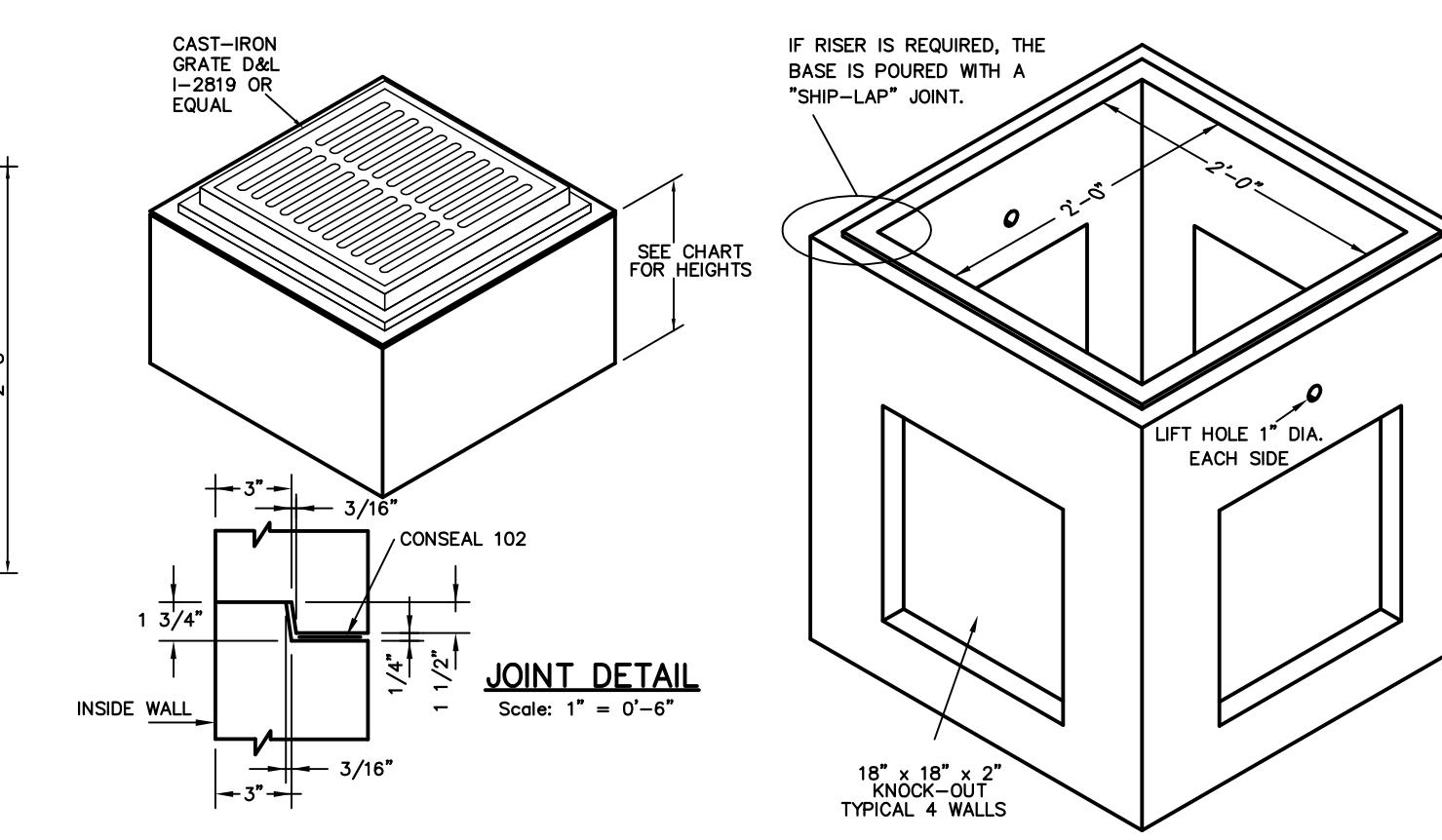
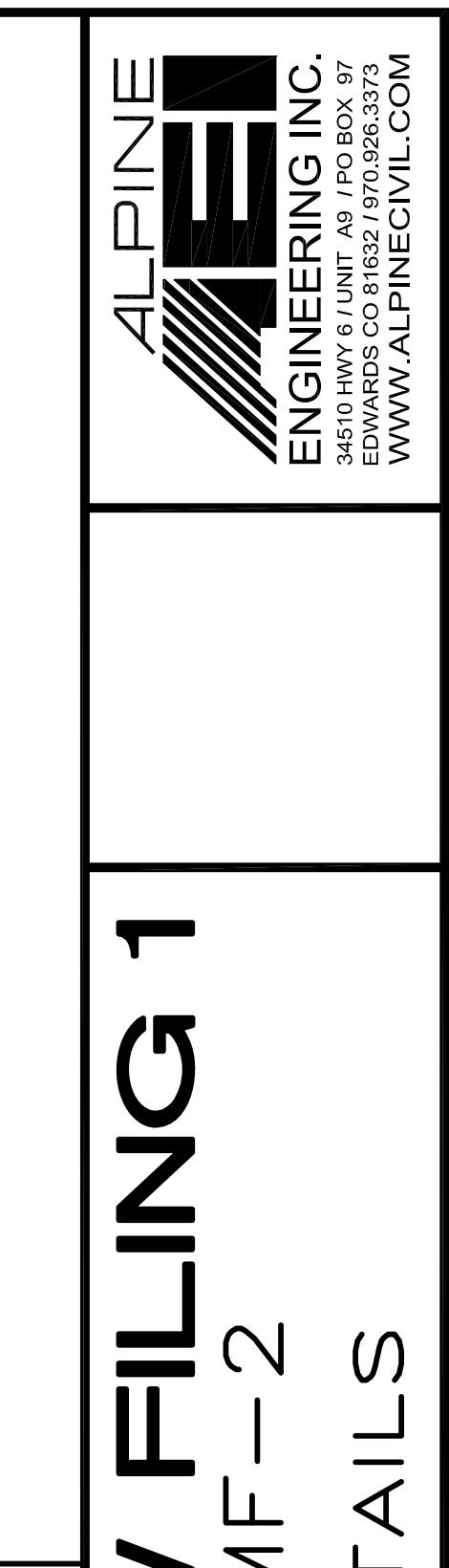


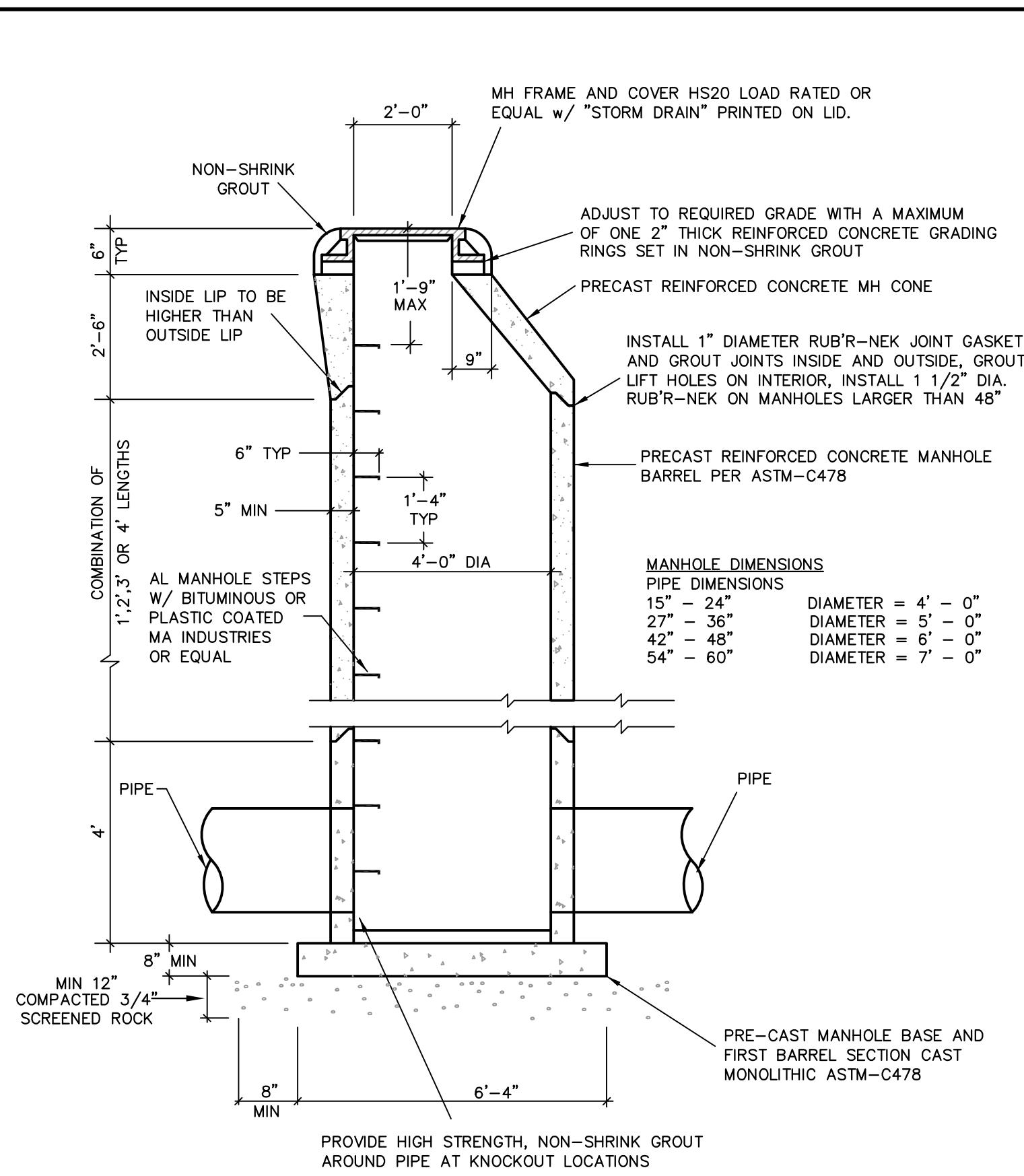
CHART
IGHTS



HAYMEADOW FILING 1

RMF-1 & RMF-2

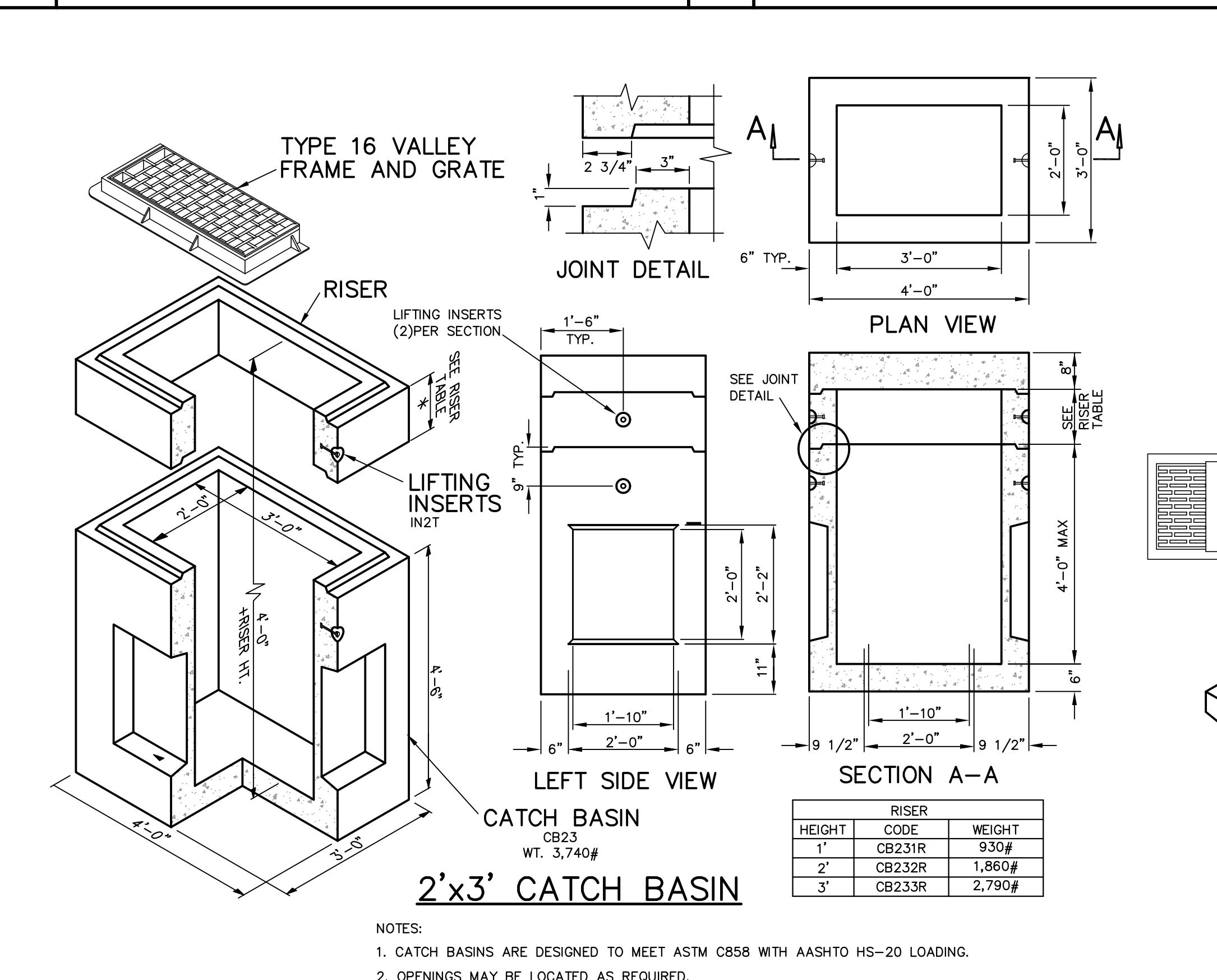
STORM DETAILS



M

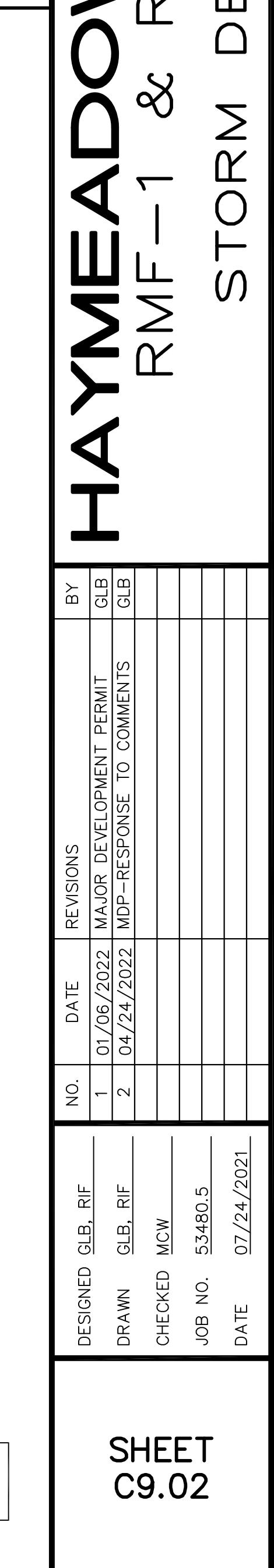
N.T.S.

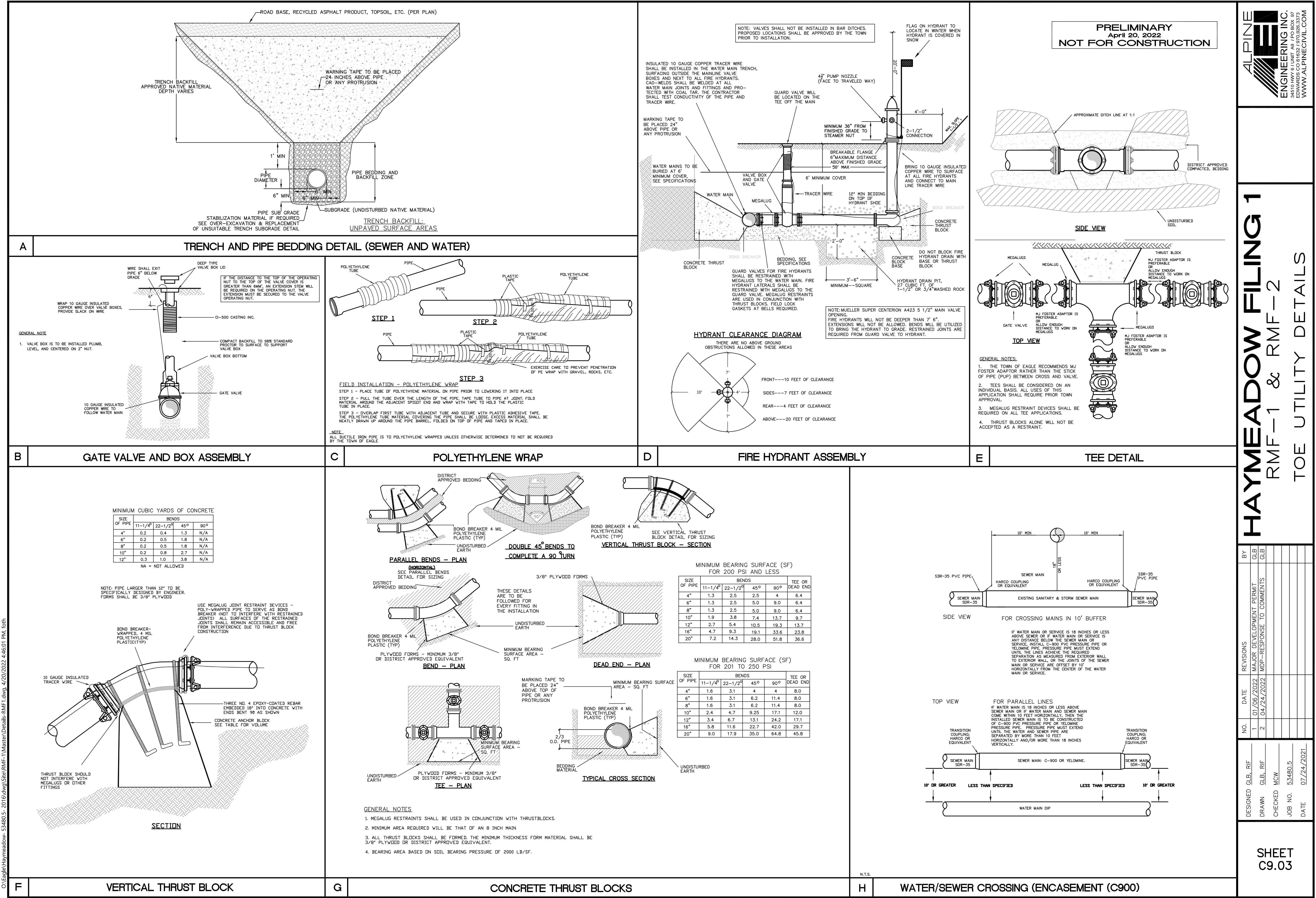
STORM SEWER MANHOLE

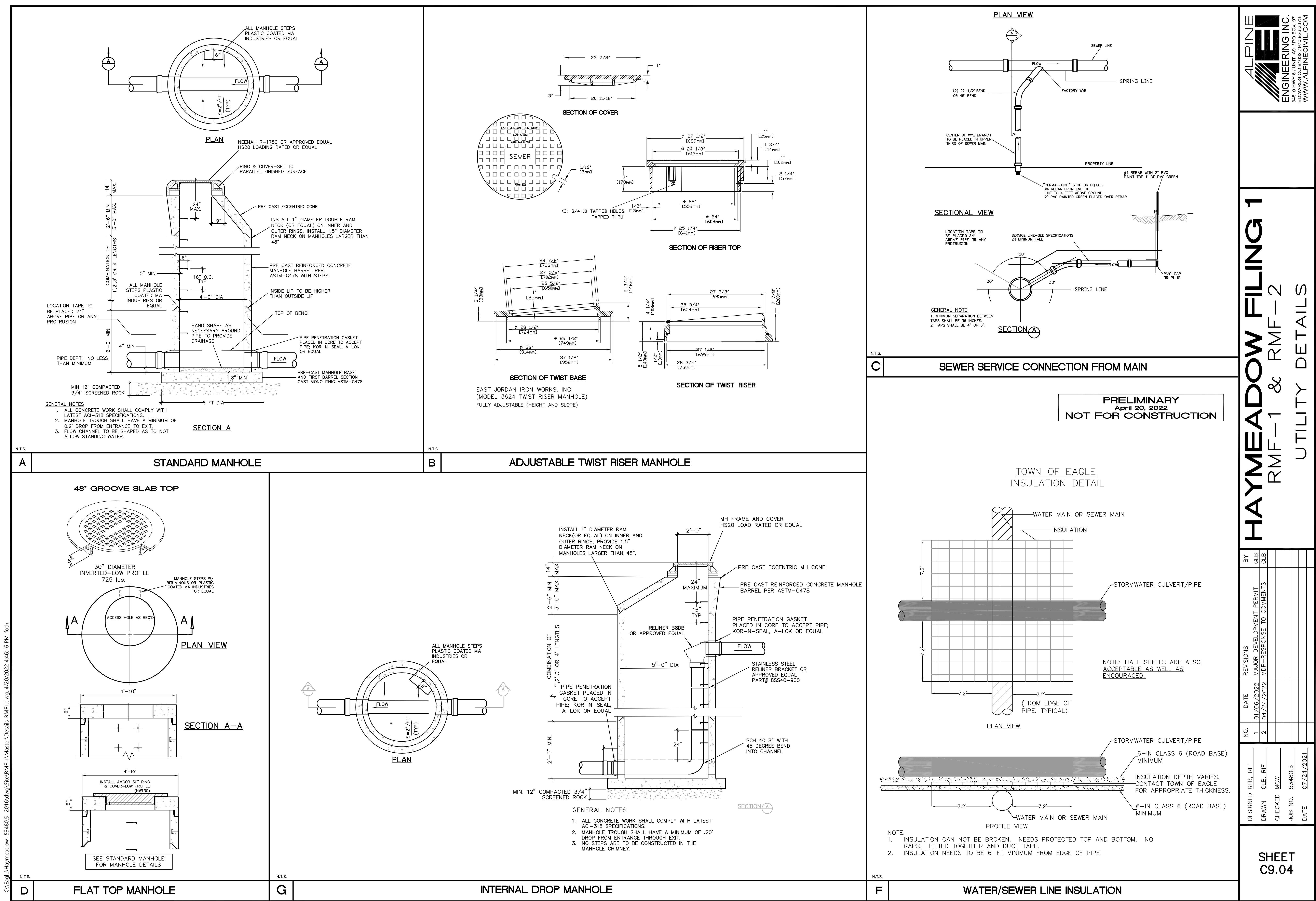


N.T.S.

2' x 3' INLET

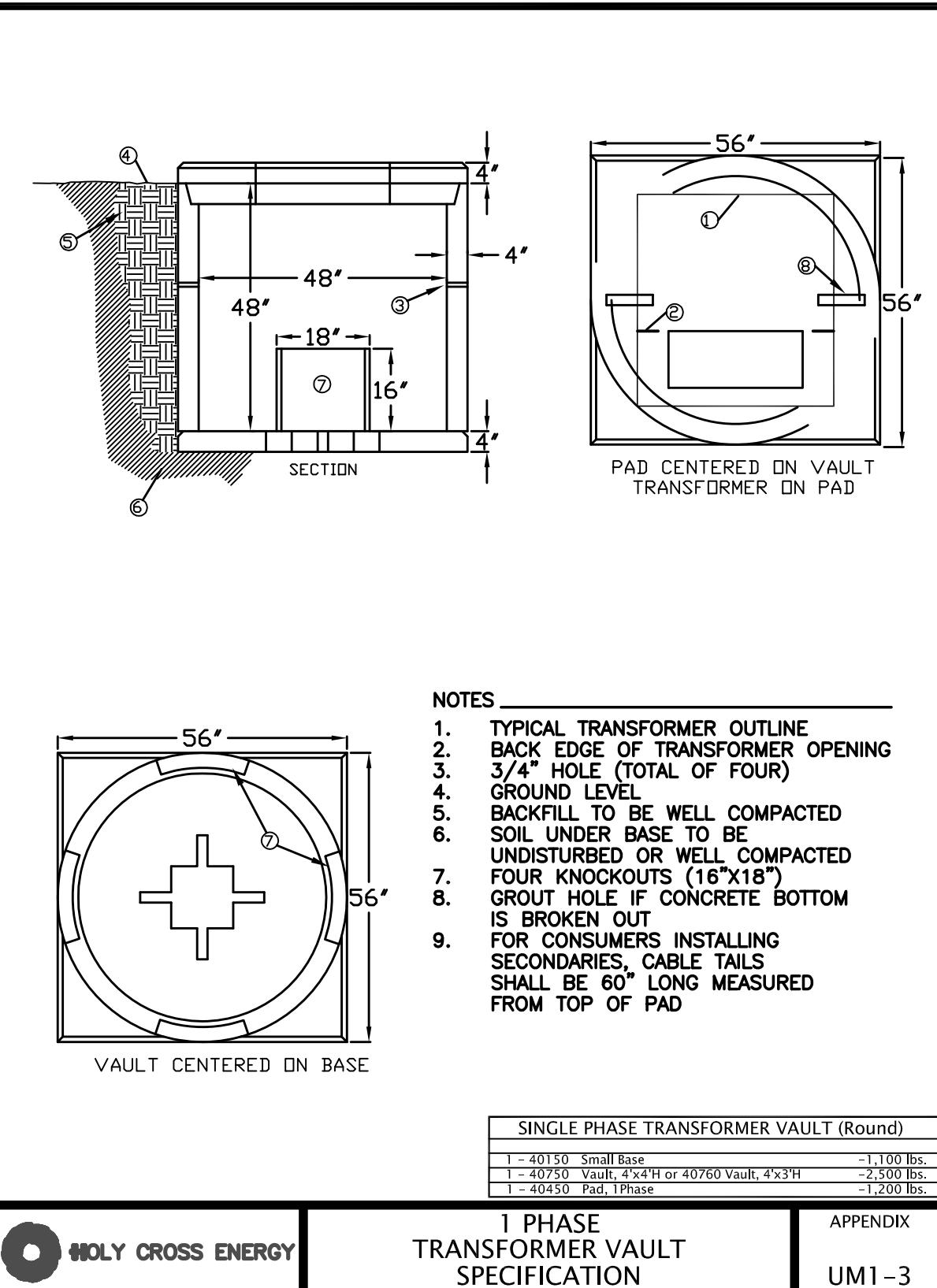
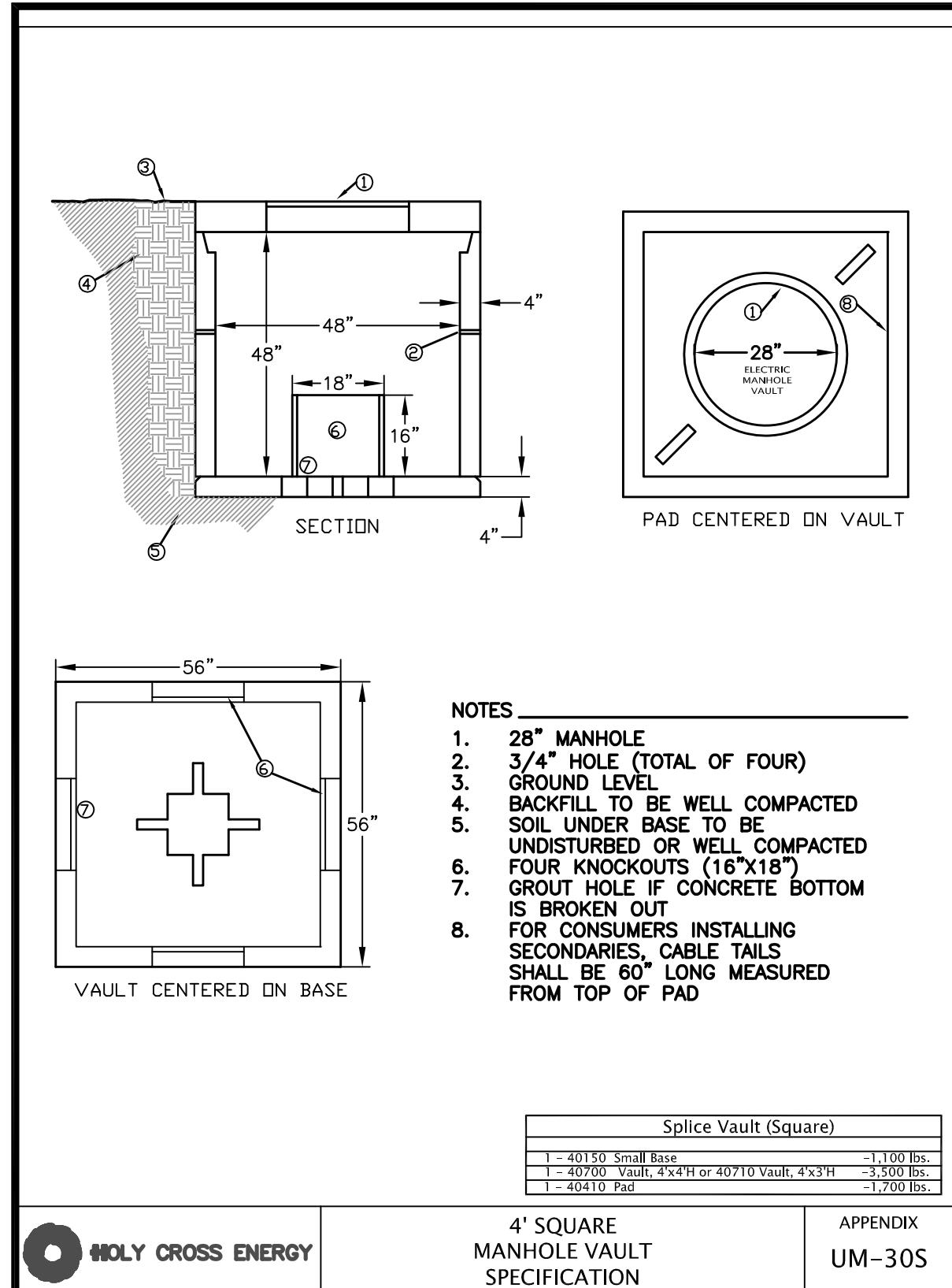






PRELIMINARY
April 20, 2022
NOT FOR CONSTRUCTION

HAYMEADOW FILING 1
RMF-1 & RMF-2
SHALLOW UTILITY DETAILS

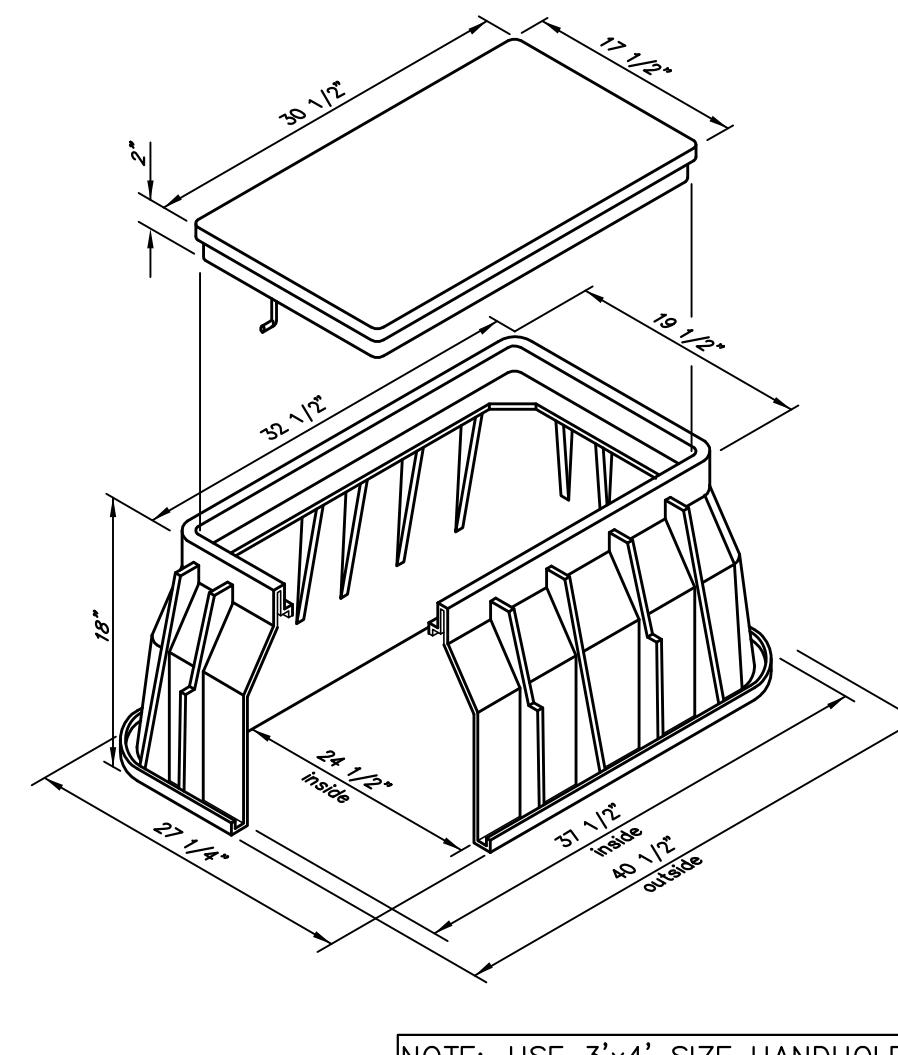
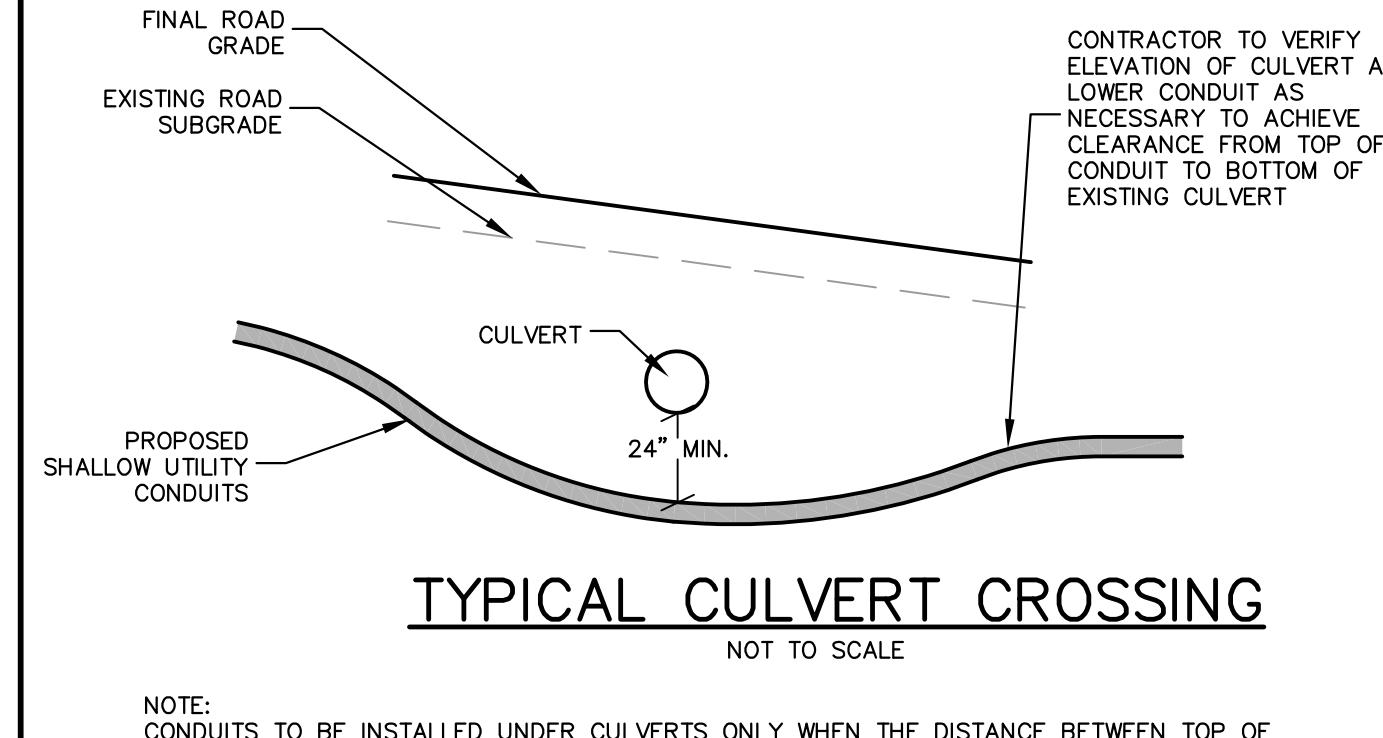
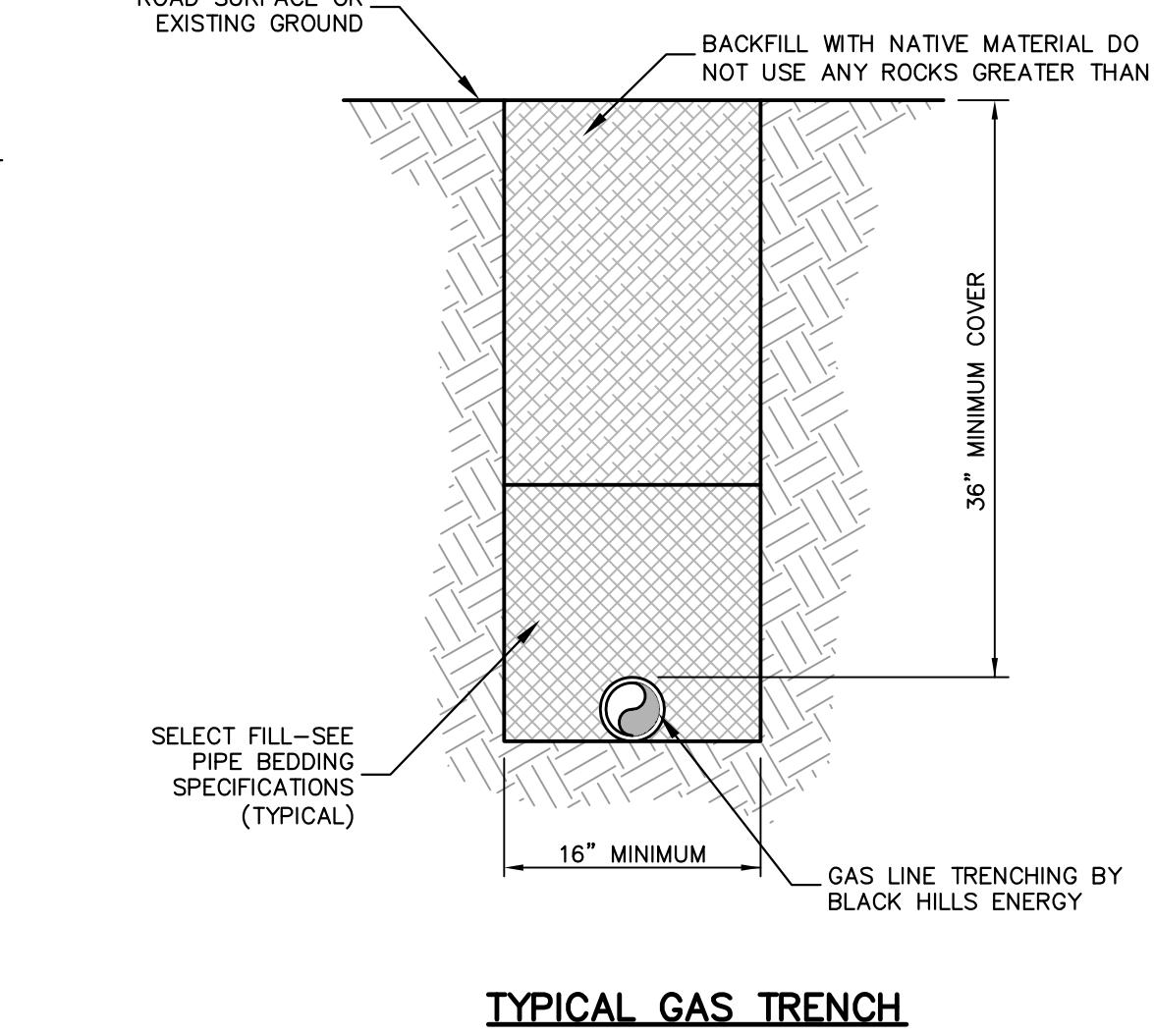
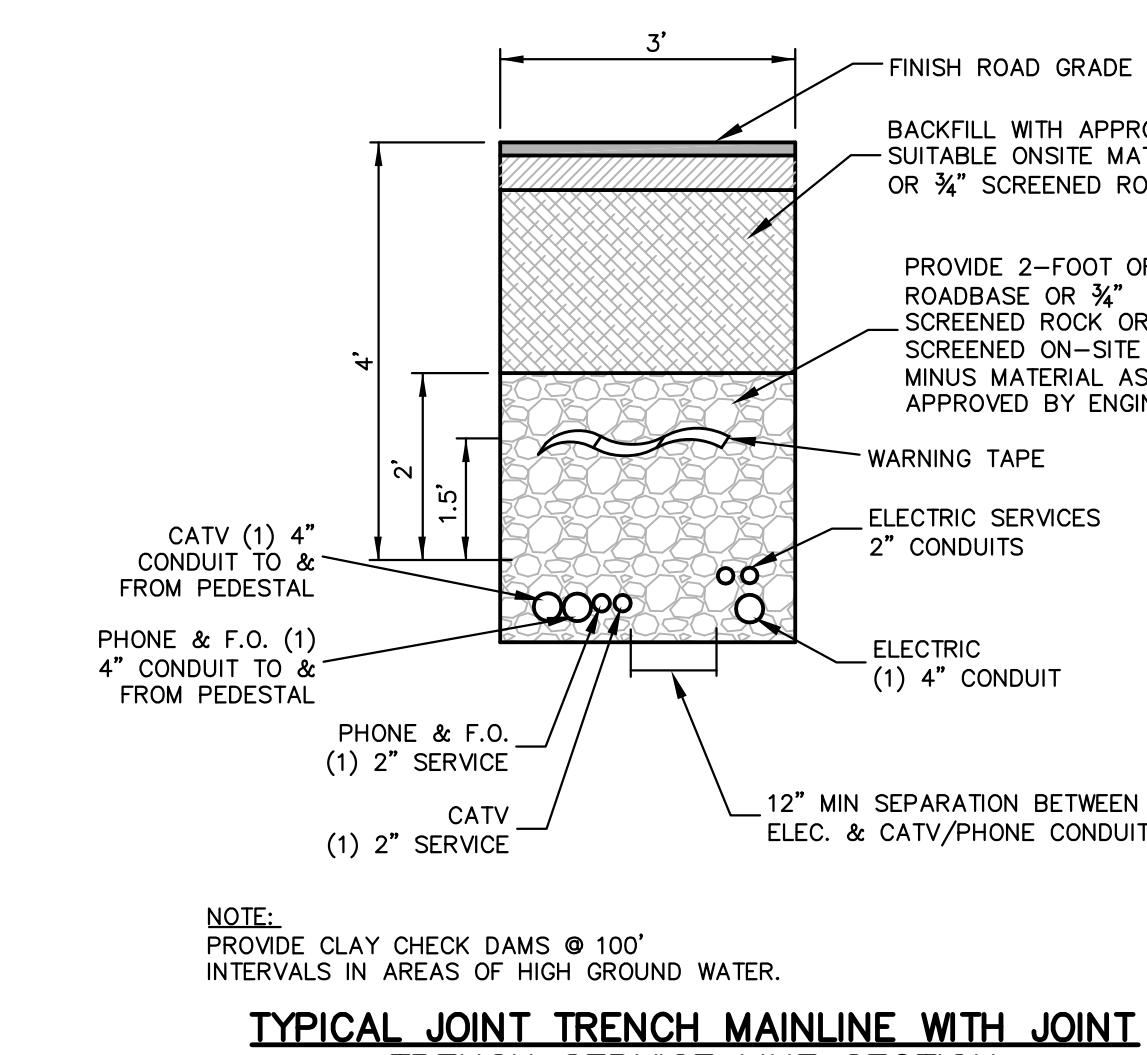
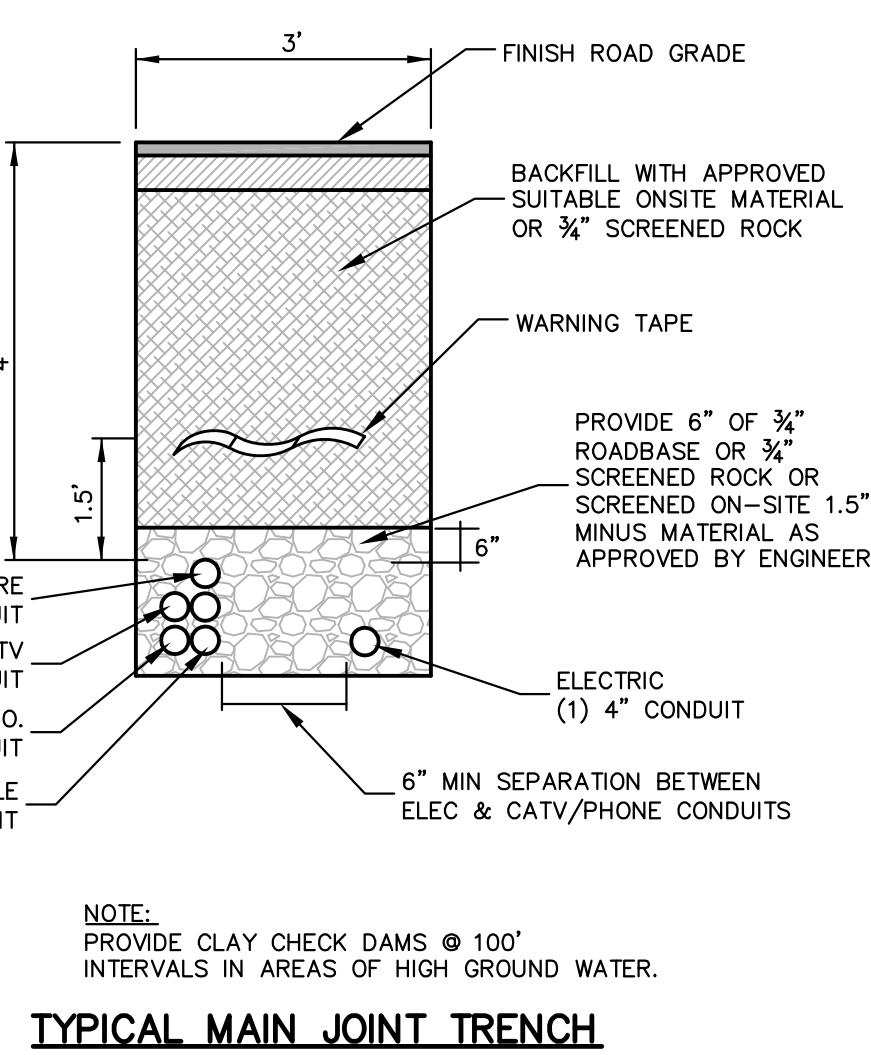


HOLY CROSS ENERGY 4' SQUARE MANHOLE VAULT SPECIFICATION APPENDIX UM-30S

HOLY CROSS ENERGY 1 PHASE TRANSFORMER VAULT SPECIFICATION APPENDIX UM1-3

A

ELECTRIC VAULTS



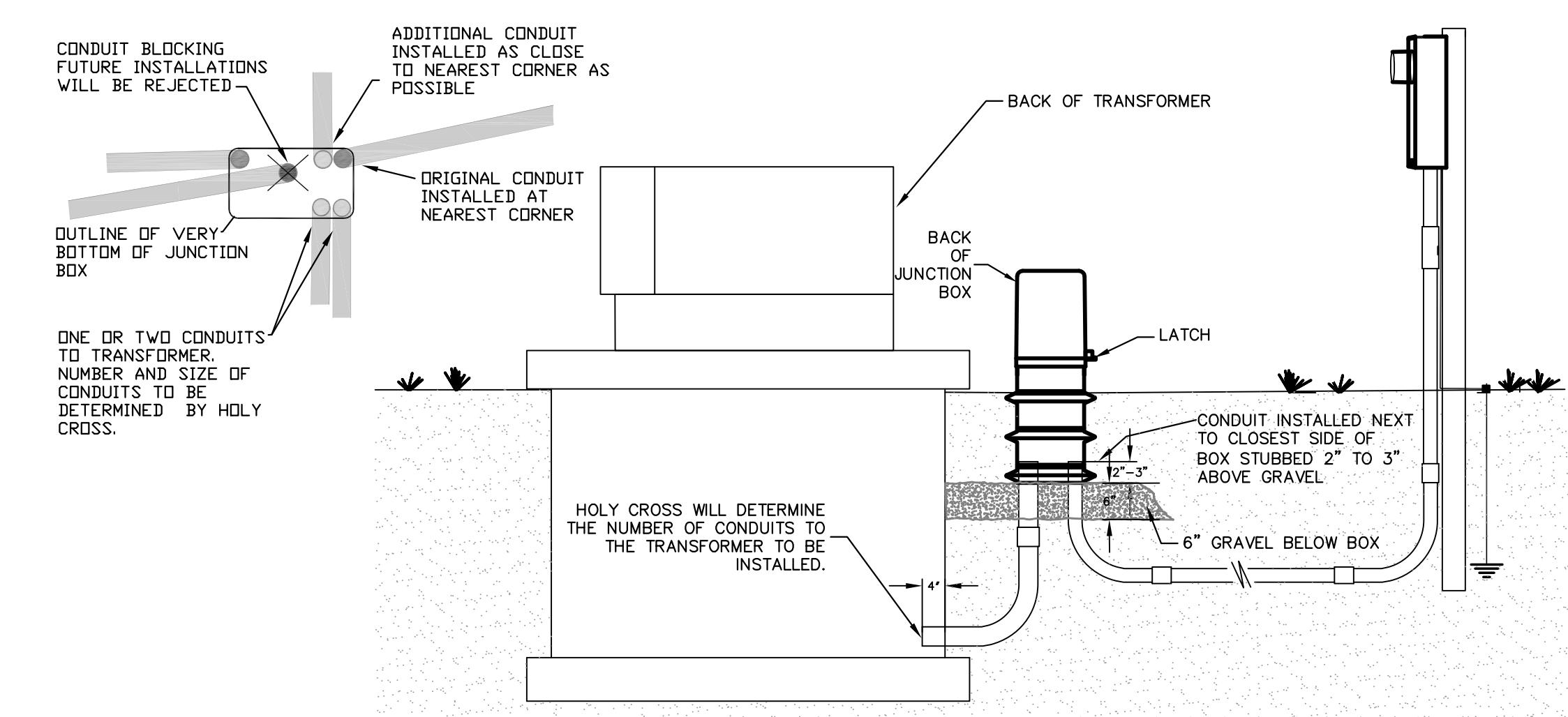
NOT TO SCALE

B

TRENCHING DETAILS

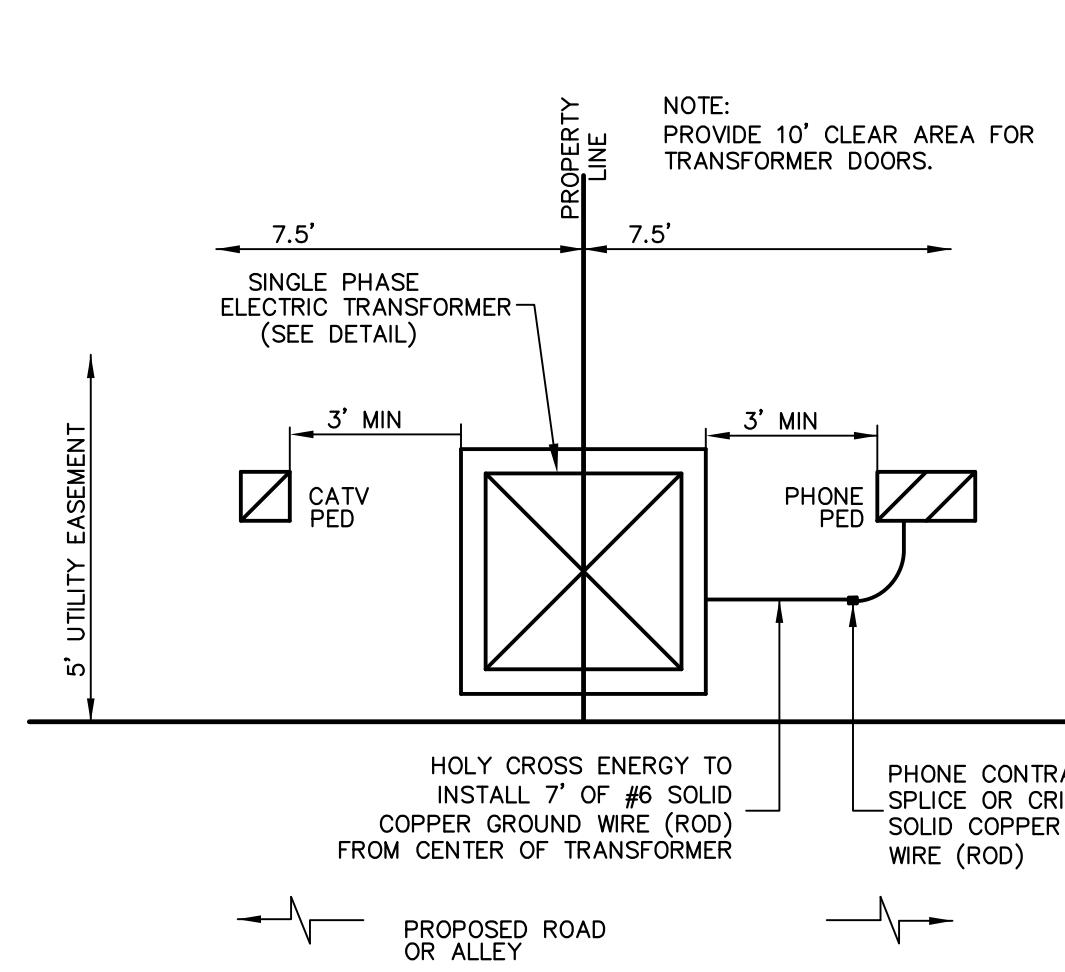
SHALLOW UTILITY NOTES

1. 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 8' RADIUS.
2. TRENCHES WITHIN ROADWAY PRISMS SHALL BE BACKFILLED AND COMPAKTED TO 95% STANDARD PROCTOR. TRENCHES OUTSIDE ROADWAY PRISMS SHALL BE COMPAKTED TO 90% STANDARD PROCTOR.
3. WHEN FOUR OR MORE CONDUITS ARE REQUIRED IN THE SAME TRENCH, INCREASE THE TRENCH WIDTH TO PROVIDE 1' SEPARATION BETWEEN ELECTRIC AND TELEPHONE CONDUITS.
4. 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.
5. PROVIDE 2' OF SELECT BACK FILL ABOVE CONDUITS AND LAY WARNING TAPE AS REQUIRED BY THE UTILITY COMPANIES.
6. PROVIDE 10' CLEAR AREA FOR ELECTRIC TRANSFORMER DOORS.
7. 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.
8. 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.
9. THE CONTRACTOR SHALL INSTALL CONDUITS FOR THE ELECTRIC AND PHONE LINES AS SHOWN ON THE PLANS.
10. ALL WORK SHALL COMPLY TO THE INDIVIDUAL SHALLOW UTILITY COMPANY'S RULES AND REGULATIONS.
11. THE CONTRACTOR SHALL REPAIR AND/OR REPLACE EXISTING UNDERDRAINS DISTURBED BY CONSTRUCTION TO THE SATISFACTION OF THE ENGINEER.
12. THE CONTRACTOR SHALL INSTALL PULL STRINGS IN ALL CONDUITS WITH THE EXCEPTION OF JOINT TRENCH LOT SERVICE STUBS.

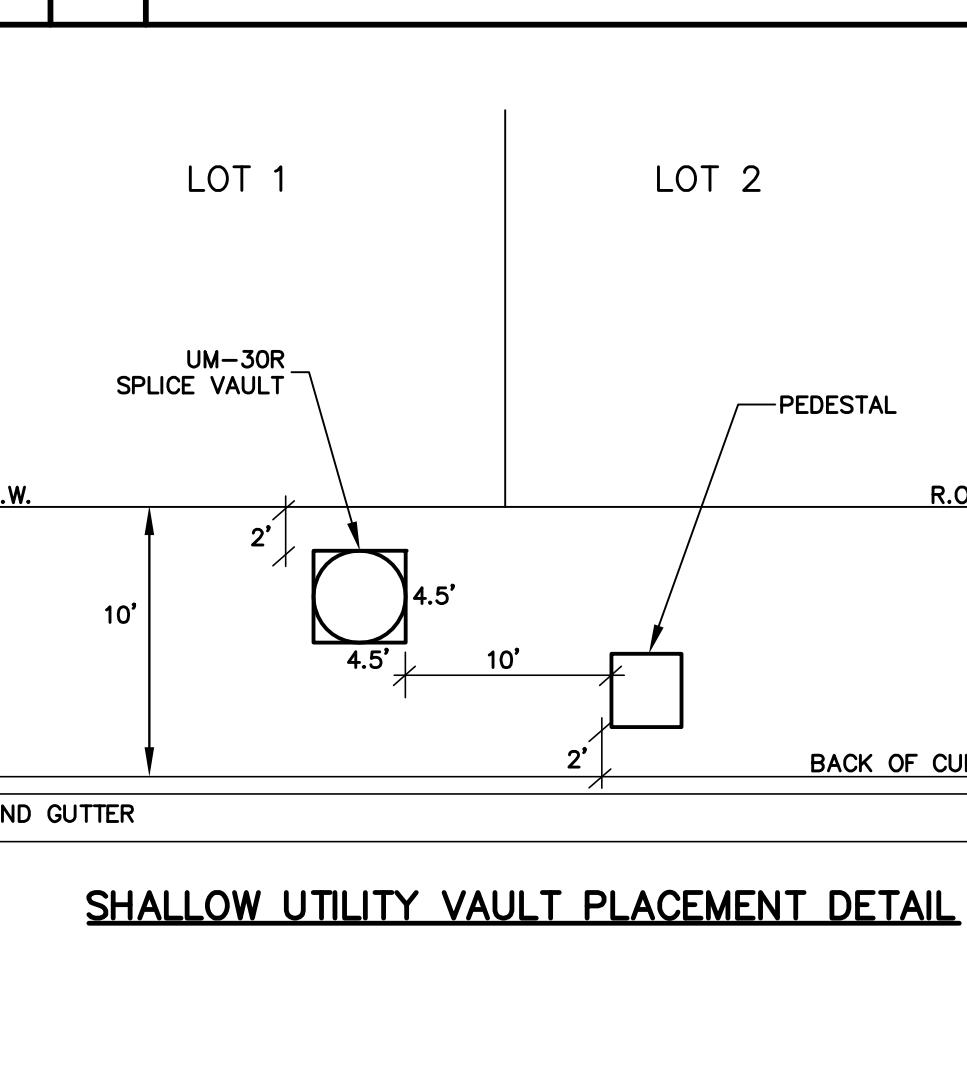


CULVERT CROSSING DETAIL

C



HANDHOLE DETAIL



E

HCE JUNCTION BOX DETAIL

F

SHALLOW UTILITY PLACEMENT DETAILS

SHEET
C9.05

HAYMEADOW FILING 1 & RMF-2

SEDIMENT CONTROL DETAILS

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 WATTERS 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 WATTERS, 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 WATTERS IS 25 FT., HOWEVER OTHER LENGTHS WILL BE MADE UPON REQUEST.
2. STRAW WATTERS 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 WATTERS CAN ALSO BE USED ALONG SIDEWALKS AND CURBS AND AROUND STORM DRAINS AND INLETS TO PREVENT SEDIMENT POLLUTION.
3. STRAW WATTERS 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 WATTERS 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 BUTTED FIRMLY TOGETHER TO PREVENT LEAKAGE, AND SECURELY STAKED TOGETHER BUT OVERLAPPING IS ACCEPTABLE.
6. WHEN USED ON SLOPES, STRAW WATTERS DO NOT REQUIRE REMOVAL AND CAN BE ABANDONED IN PLACE. HOWEVER, WHEN USED FOR TEMPORARY PURPOSES SUCH AS ALONG SIDEWALKS AND CURBS, OR AROUND STORM DRAINS, THEY CAN BE REMOVED AND REUSED.
7. WATTERS INSTALLED ON SLOPES THAT ARE STEEPER THAN 2:1 SHALL BE SPACED AT 10' INTERVALS RATHER THAN 20' INTERVALS.

SYMBOL ON PLANS

SYMBOL ON PLANS

PLAN VIEW

CROSS SECTION

SYMBOL ON PLANS

A STRAW WATTERS-SLOPE PROTECTION

| REGULAR FLOW DANDY CURB SACK™ (BLACK) | | | |
|---------------------------------------|-------------|------------------------|-------------------------|
| Mechanical Properties | Test Method | Units | MARV |
| Grab Tensile Strength | ASTM D-4632 | kN (lbs) | 1.78 (400) x 140 (315) |
| Grob Tensile Elongation | ASTM D-4632 | % | 15 x 15 |
| Puncture Strength | ASTM D-4833 | kN (lbs) | 0.67 (150) |
| Millipore Strength | ASTM D-4833 | kN (lbs) | 300 (67) |
| Trapezoid Tear Strength | ASTM D-4533 | kN (lbs) | 0.67 (150) x 0.75 (165) |
| UV Resistance | ASTM D-4355 | % | 80 |
| Apparent Opening Size | ASTM D-4751 | Min. (U.S. Std Sieve) | 0.425 (40) |
| Flow Rate | ASTM D-4491 | 1/min/m² (gal/min/ft²) | 2852 (70) |
| Permeability | ASTM D-4491 | Sec⁻¹ | 0.90 |

| HI-FLOW DANDY CURB SACK™ (SAFETY ORANGE) | | | |
|--|-------------|------------------------|-------------------------|
| Mechanical Properties | Test Method | Units | MARV |
| Grab Tensile Strength | ASTM D-4632 | kN (lbs) | 1.62 (365) x 0.89 (200) |
| Grob Tensile Elongation | ASTM D-4632 | % | 24 x 10 |
| Puncture Strength | ASTM D-4833 | kN (lbs) | 0.40 (90) |
| Millipore Strength | ASTM D-4833 | kN (lbs) | 300 (67) |
| Trapezoid Tear Strength | ASTM D-4533 | kN (lbs) | 0.51 (115) x 0.33 (75) |
| UV Resistance | ASTM D-4355 | % | 80 |
| Apparent Opening Size | ASTM D-4751 | Min. (U.S. Std Sieve) | 0.425 (40) |
| Flow Rate | ASTM D-4491 | 1/min/m² (gal/min/ft²) | 5907 (145) |
| Permeability | ASTM D-4491 | Sec⁻¹ | 2.1 |

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

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B WATTLE CULVERT PROTECTION

C DITCH WATTERS

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

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

SYMBOL ON PLANS

E CURB SACK INLET PROTECTION

F SILT SACK INLET PROTECTION

G CONCRETE WASHOUT

H STABILIZED CONSTRUCTION ENTRANCE

PRELIMINARY
April 20, 2022
NOT FOR CONSTRUCTION

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

SHEET
C9.06