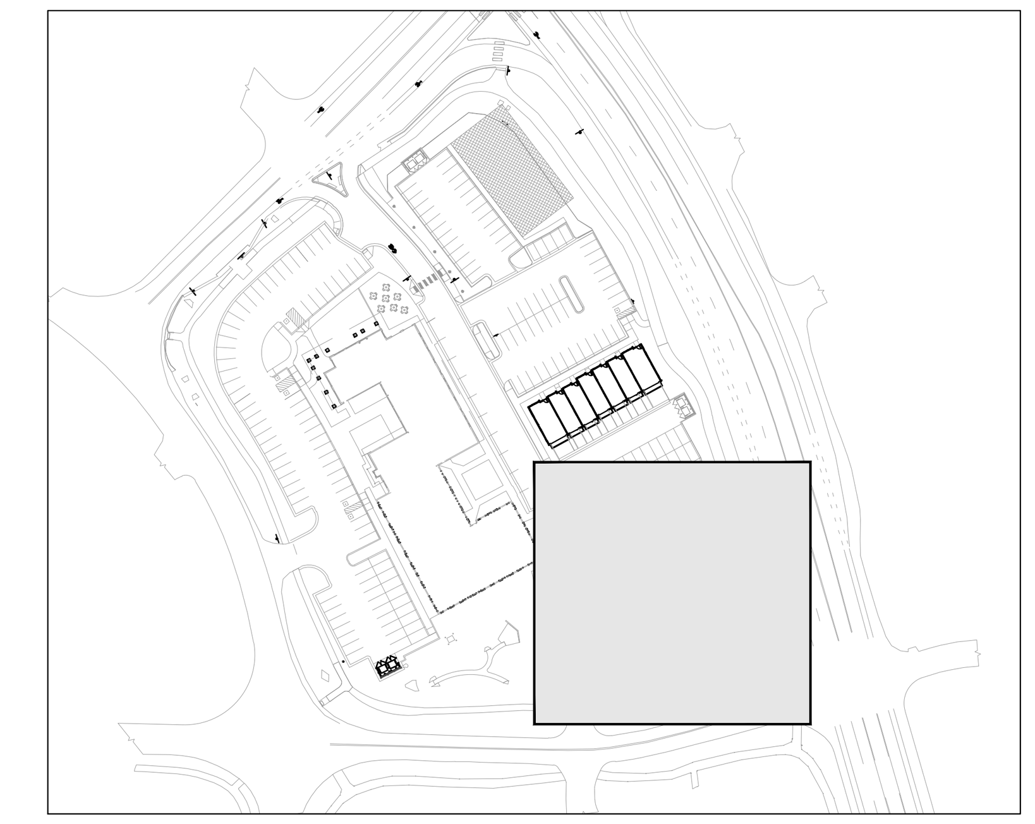
SEE SHEET C.202

NORTH

10 0 10 20 30

(IN FEET)
1 IN. = 10 FT.



KEY MAP
NOT TO SCALE

UTILITY PLAN LEGEND:

- EXISTING SANITARY SEWER W/ MH & C.O.
- EXISTING WATER
- PROPOSED SANITARY SEWER W/ MH & C.O.
- PROPOSED WATER PIPE
- PROPOSED GV, FH & CS
- PROPOSED STORM SEWER W/ FLARED END SECTION
- PROPOSED STORM INLET (CURB & AREA)
- PROPOSED STORM MANHOLE & CLEANOUT
- APPROX. PAVEMENT SAW CUT

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(970) 871-9494 ~ www.LANDMARK-CO.com

COLORADO LICENSED PROFESSIONAL ENGINEER
MICAH PATRICK GIBBONS
64423
3/13/26

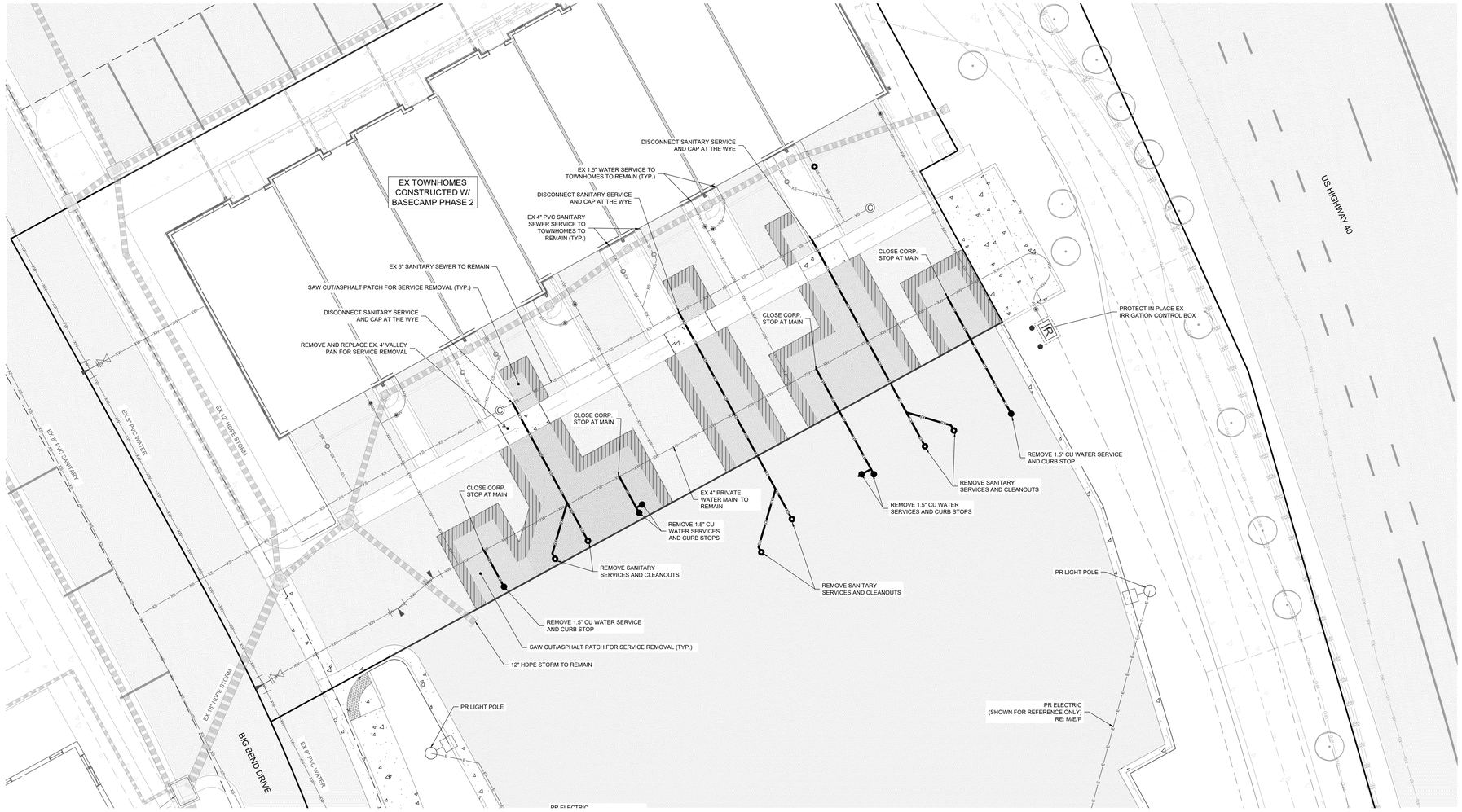
NO.	DATE:	BY:	DESCRIPTION:

PROJECT:	2387-008
DATE:	3/13/2026
CONTACT:	Micah Gibbons
EMAIL:	micahg@landmark-co.com

Steamboat Basecamp 2 Residential
Utility Plan
Lot 3

SHEET
C.201

SEE SHEET C.203



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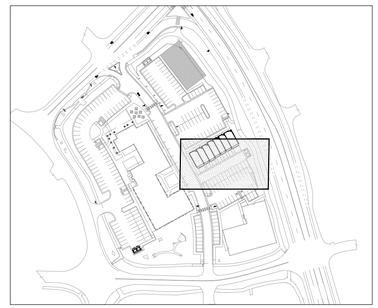

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COLORADO LICENSED
64423
3/13/26
PROFESSIONAL ENGINEER

NO.	DATE:	BY:	DESCRIPTION:

PROJECT:	2307-008
DATE:	3/13/2026
CONTACT:	Micah Gibbons
EMAIL:	micahg@landmark-co.com

Steamboat Basecamp 2 Residential
Utility Plan
Water and Sewer Removals

SHEET
C.202

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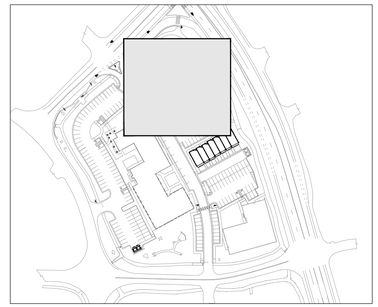

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COLORADO LICENSED
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NO.	DATE:	BY:	DESCRIPTION:

PROJECT: 2387-008
DATE: 3/13/2026
CONTACT: Micah Gibbons
EMAIL: micahg@landmark-co.com

Steamboat Basecamp 2 Residential

Utility Plan
Lot 2

SHEET
C.203

DRAWING FILENAME: P:\2387-008\DWG\Production Drawings\Construction Documents\2387-008-C3-C.203 - Water and Sewer Plan.dwg | LAYOUT NAME: C.203 | DATE: Mar 13, 2026 - 4:50pm CAD OPERATOR: micah
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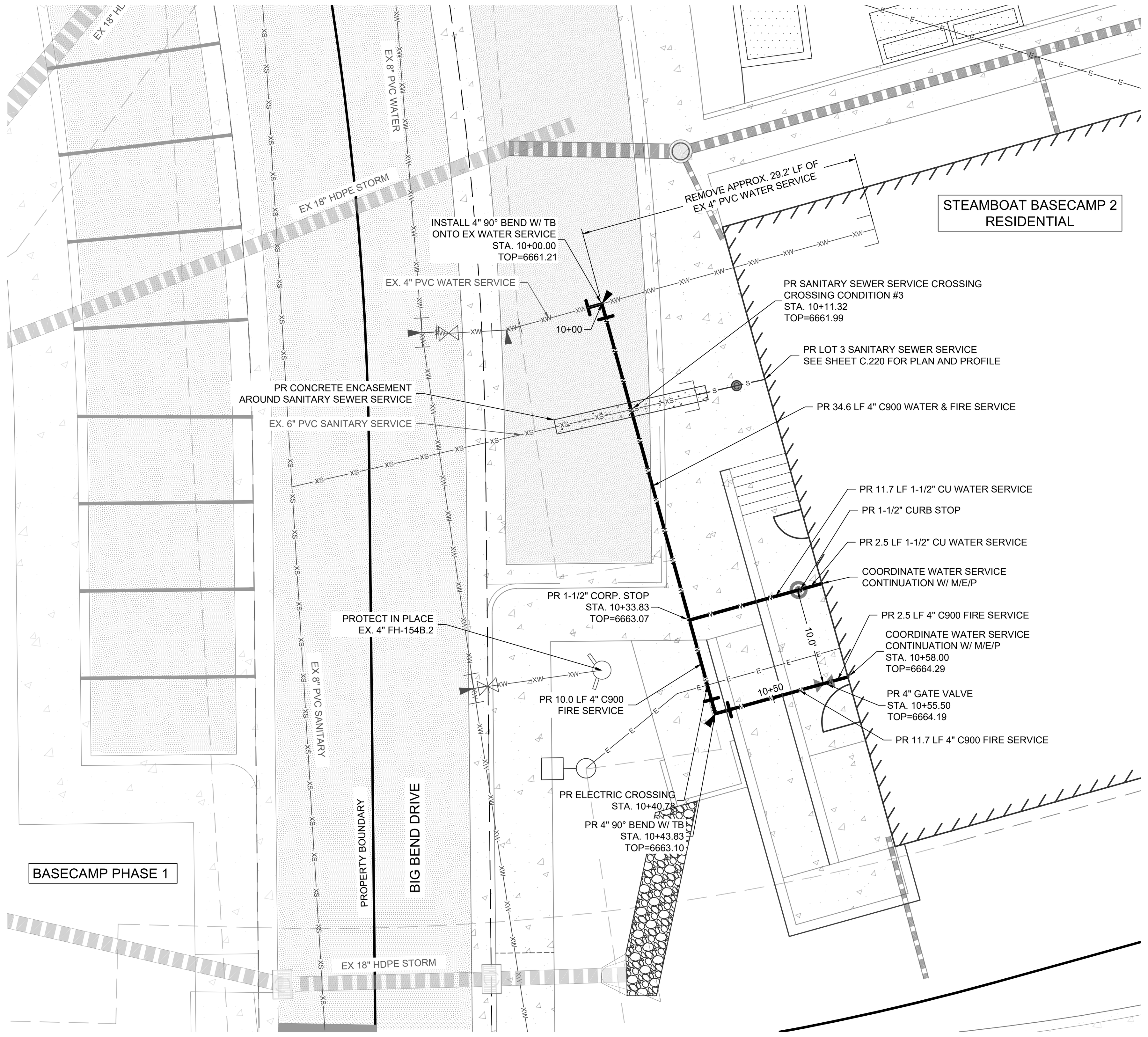
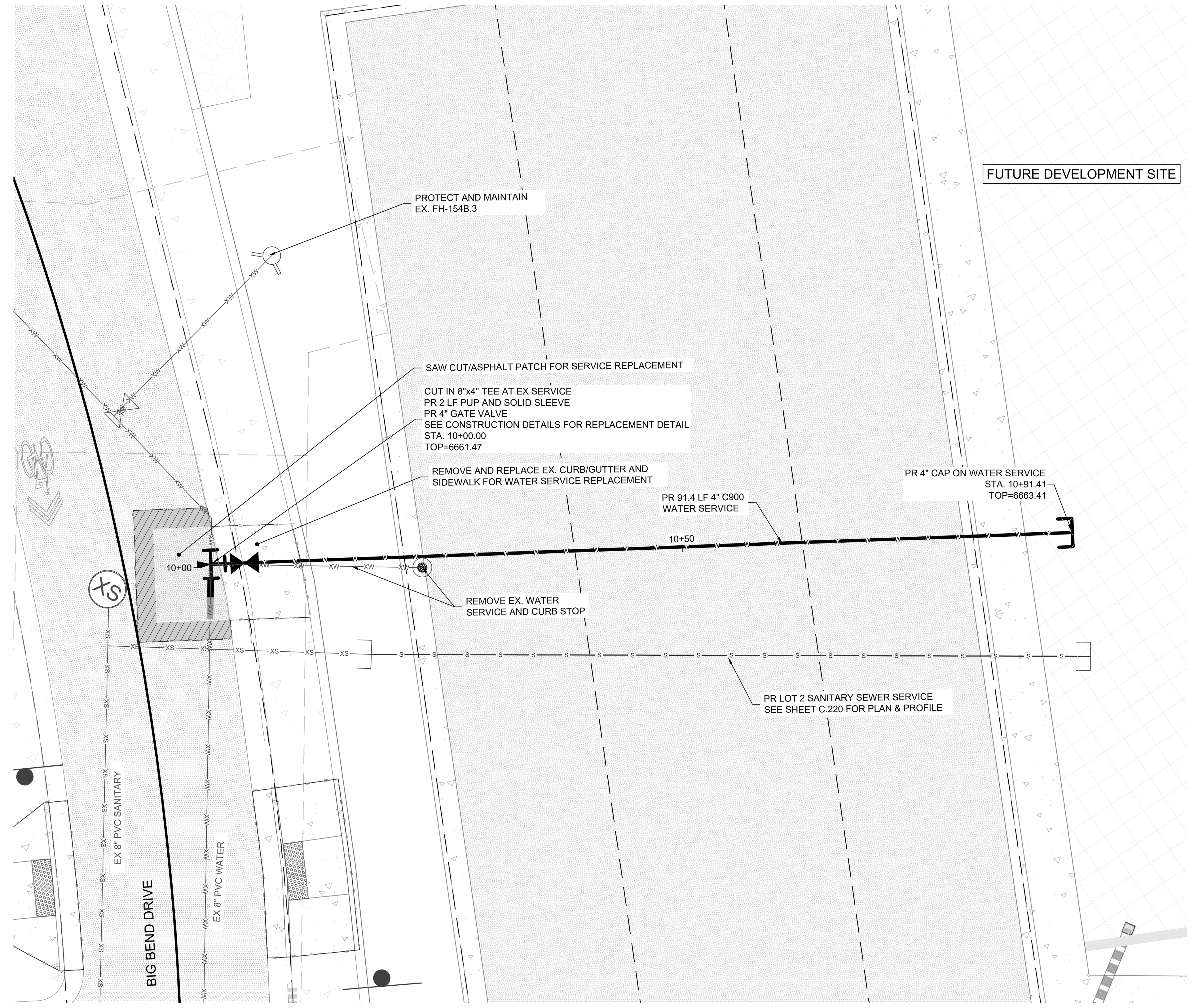
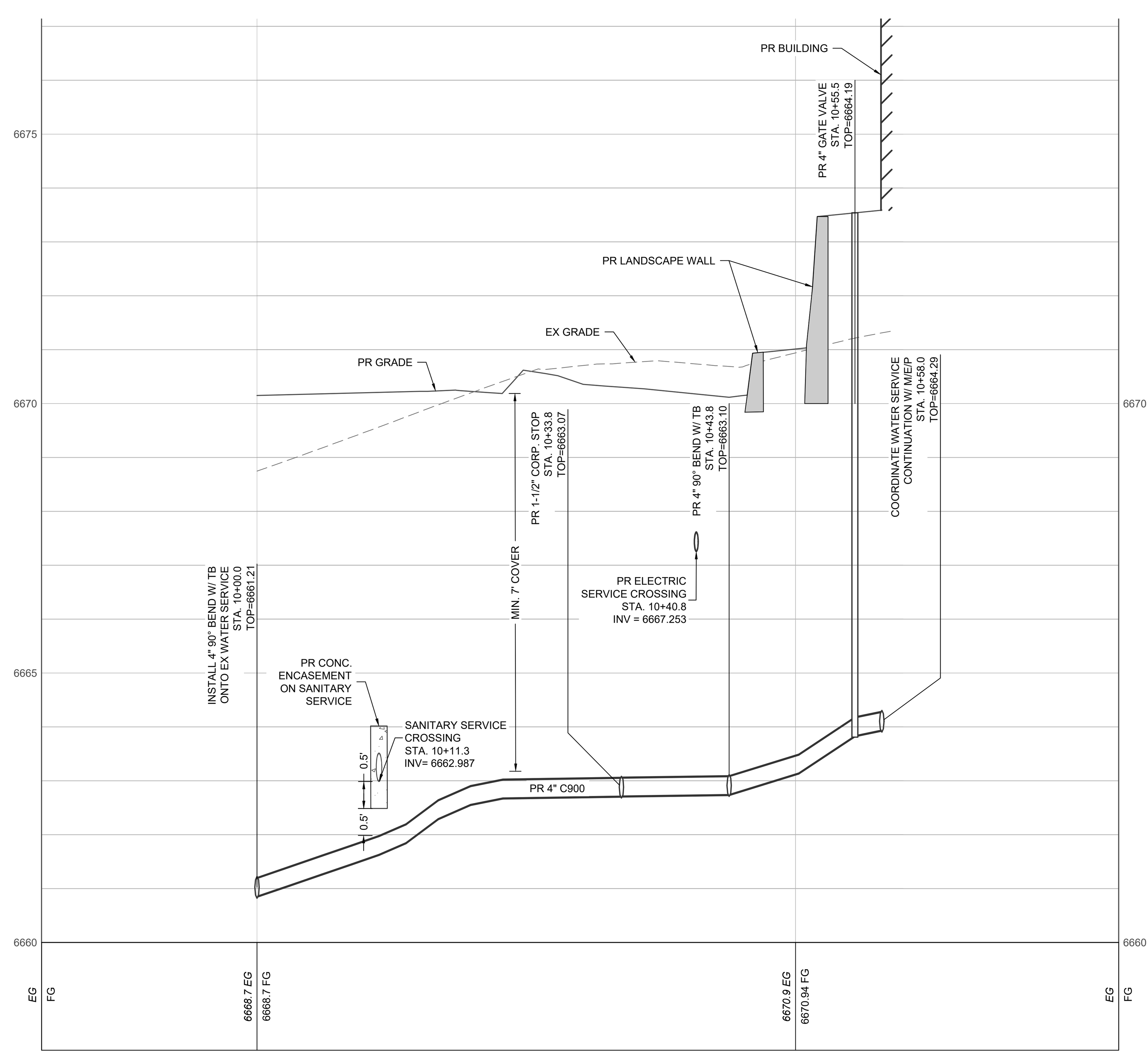




LOT 3 WATER SERVICE SERVICE PLAN & PROFILE

PROFILE SCALE: 1" = 10' (H) 1" = 2' (V)



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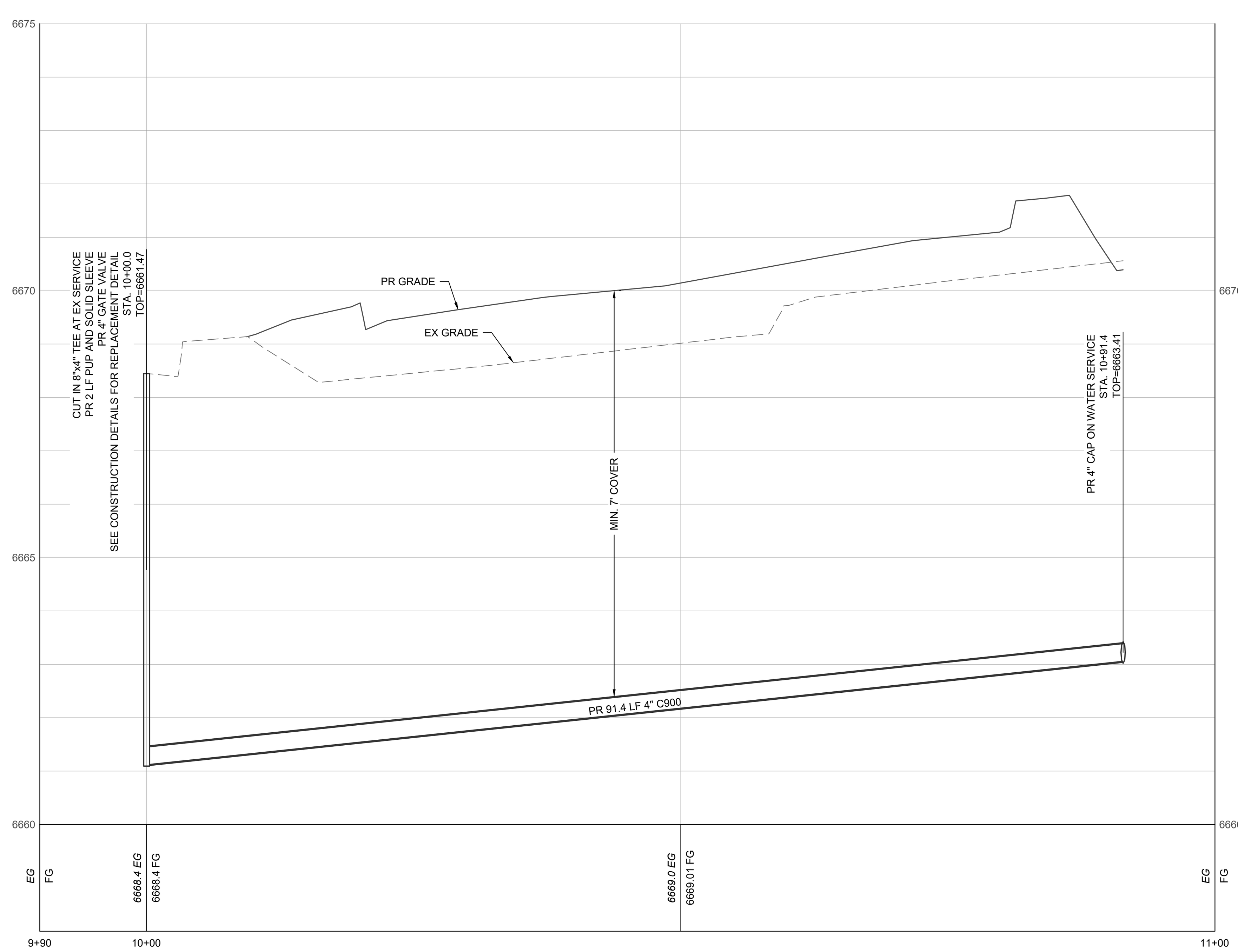
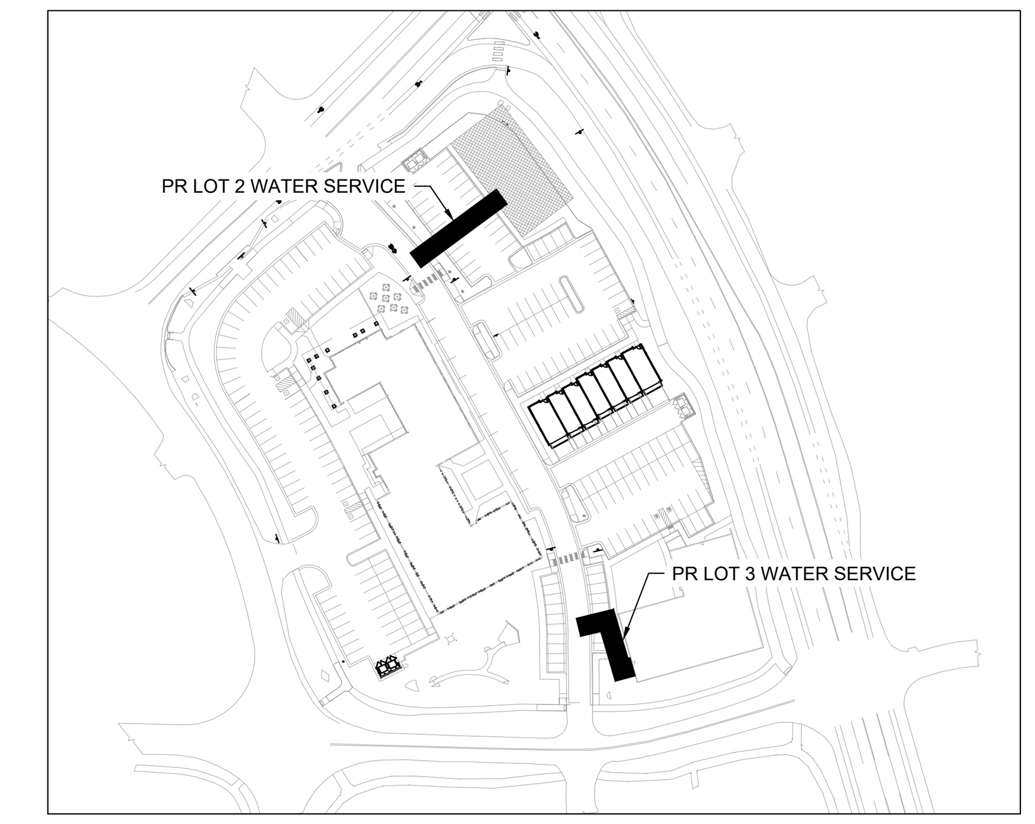


NORTH

10 0 10 20 30

(IN FEET)
1 IN. = 10 FT.



KEY MAP
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UTILITY PLAN LEGEND:

- EXISTING SANITARY SEWER W/ MH & C.O.
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- PROPOSED SANITARY SEWER W/ MH & C.O.
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(970) 871-9494 ~ www.LANDMARK-CO.com

COLORADO LICENSED PROFESSIONAL ENGINEER 64423 3/13/26

NO.	DATE:	BY:	DESCRIPTION:

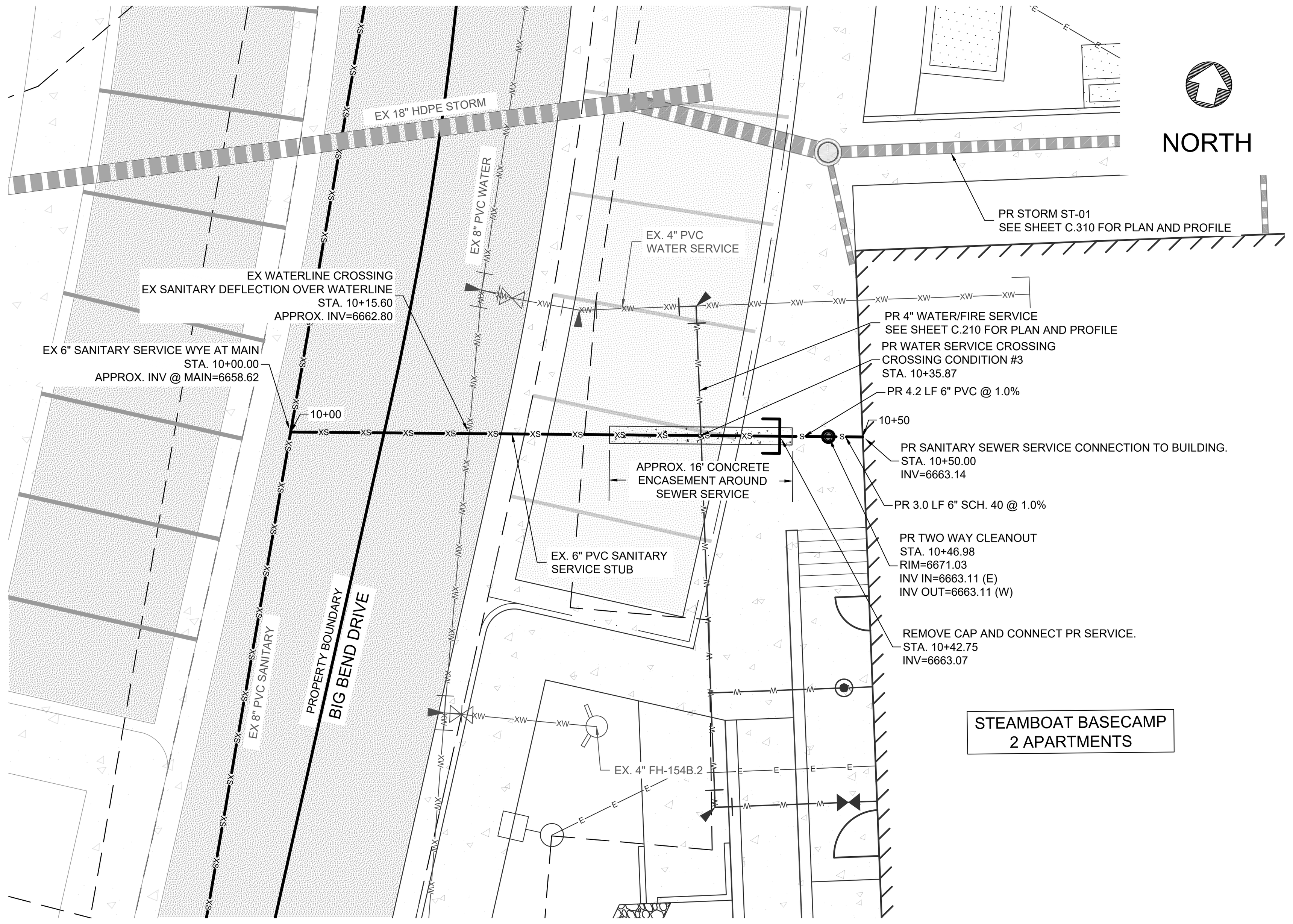
PROJECT:	2387-008
DATE:	3/13/2026
CONTACT:	Micah Gibbons
EMAIL:	micahg@landmark-co.com

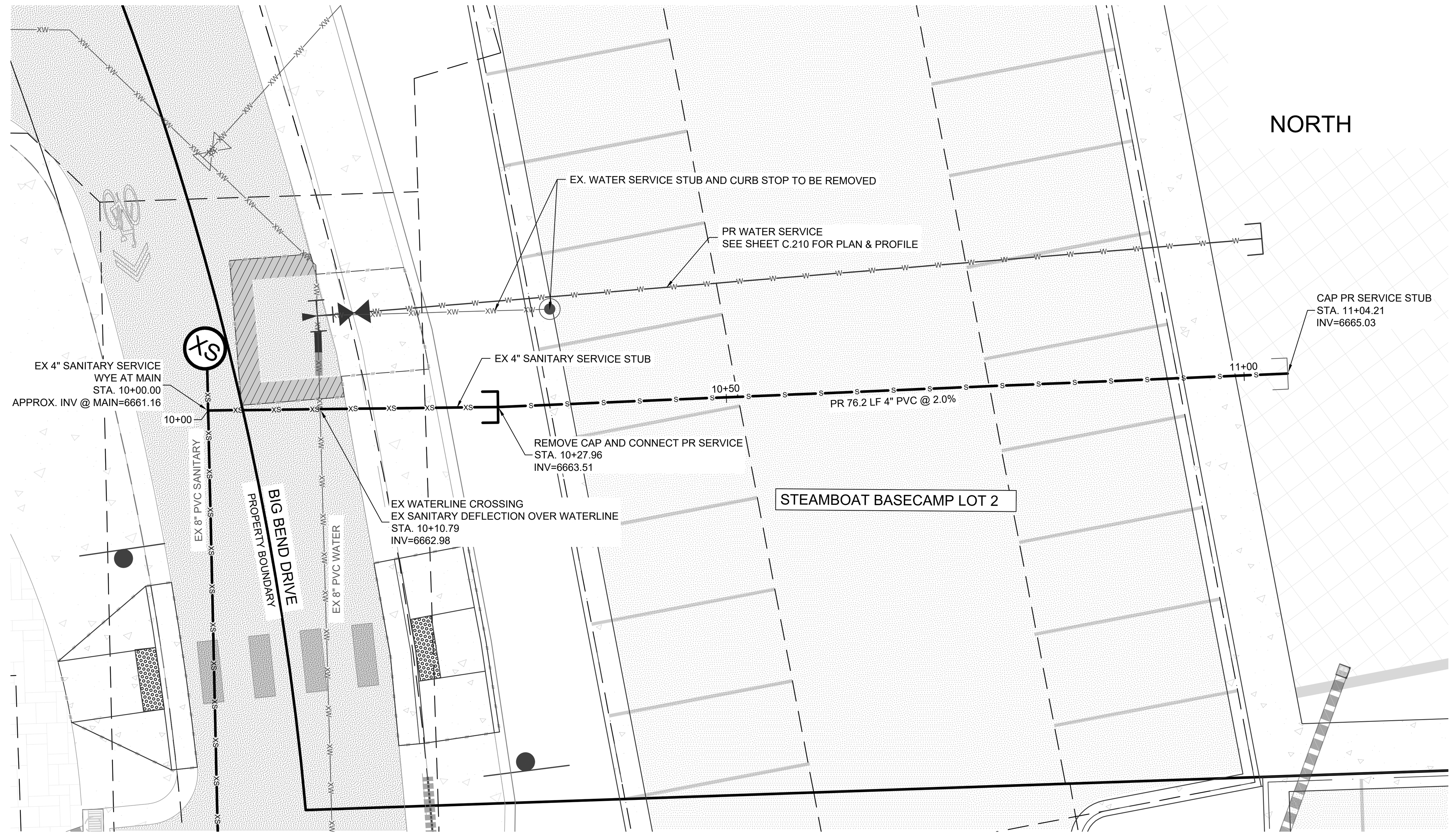
Steamboat Basecamp 2 Residential

Water Plan & Profile Lot 3

SHEET

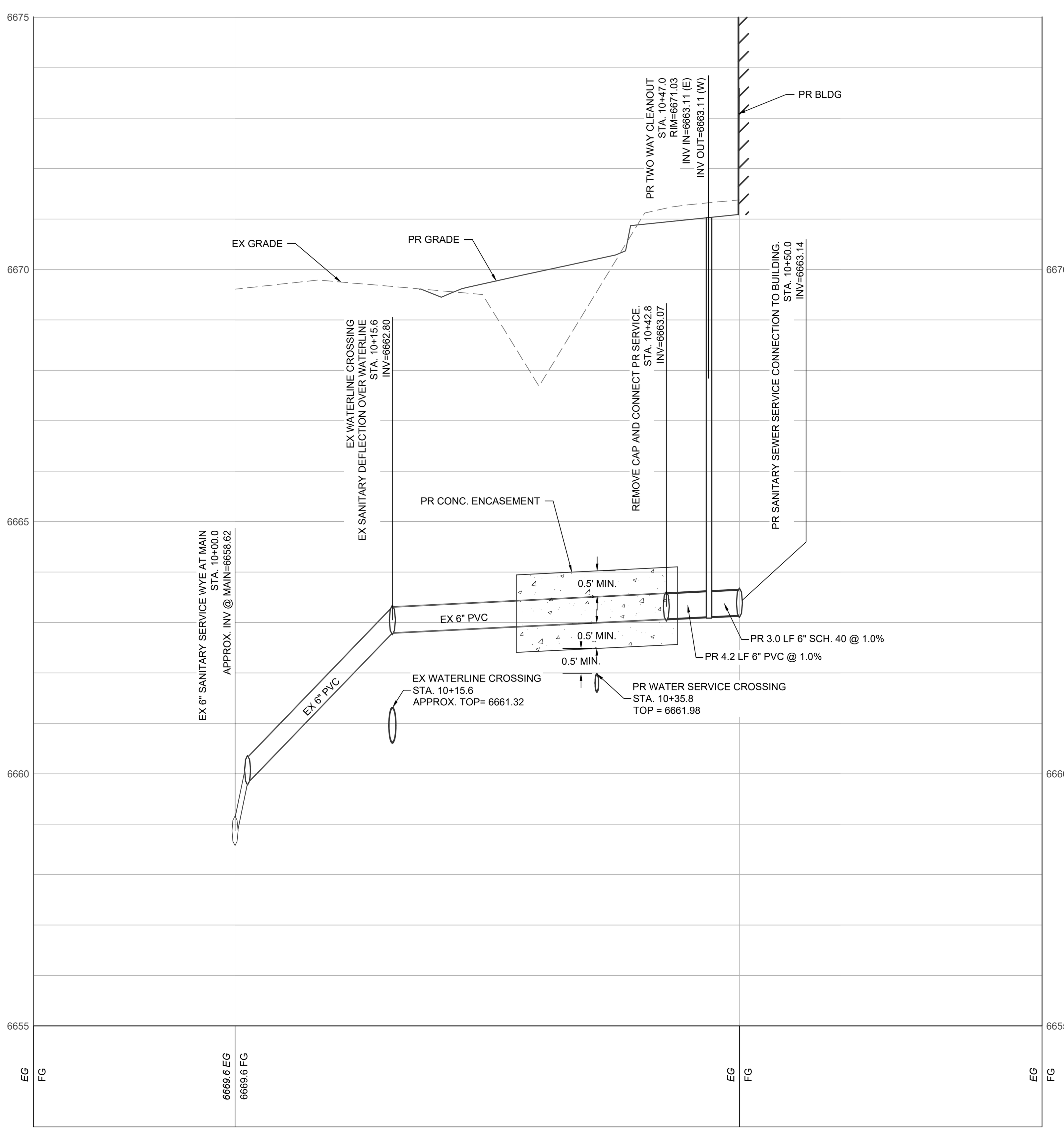
C.210





LOT 3 SANITARY SEWER SERVICE PLAN & PROFILE

PROFILE SCALE: 1" = 10' (H) 1" = 2' (V)



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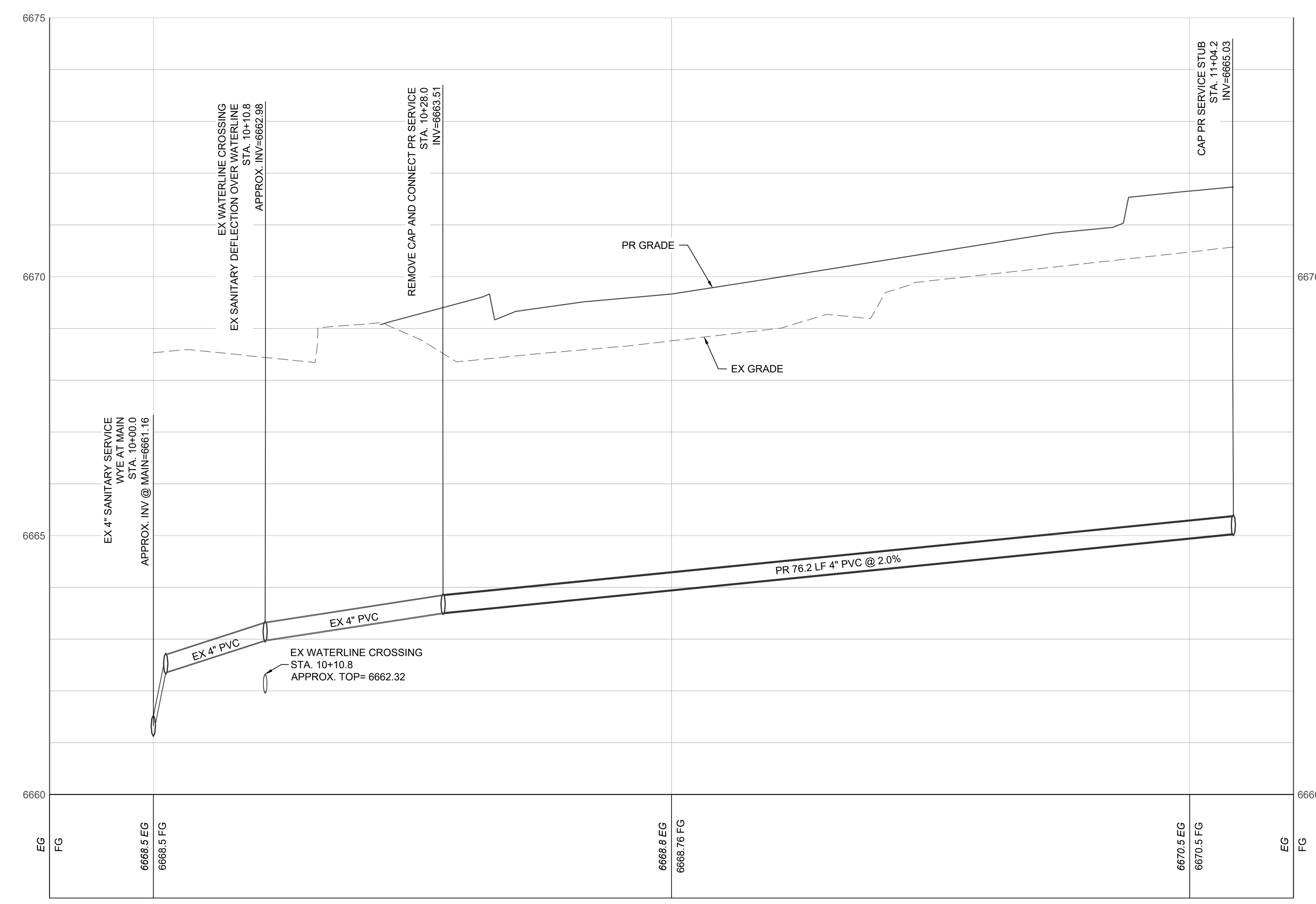

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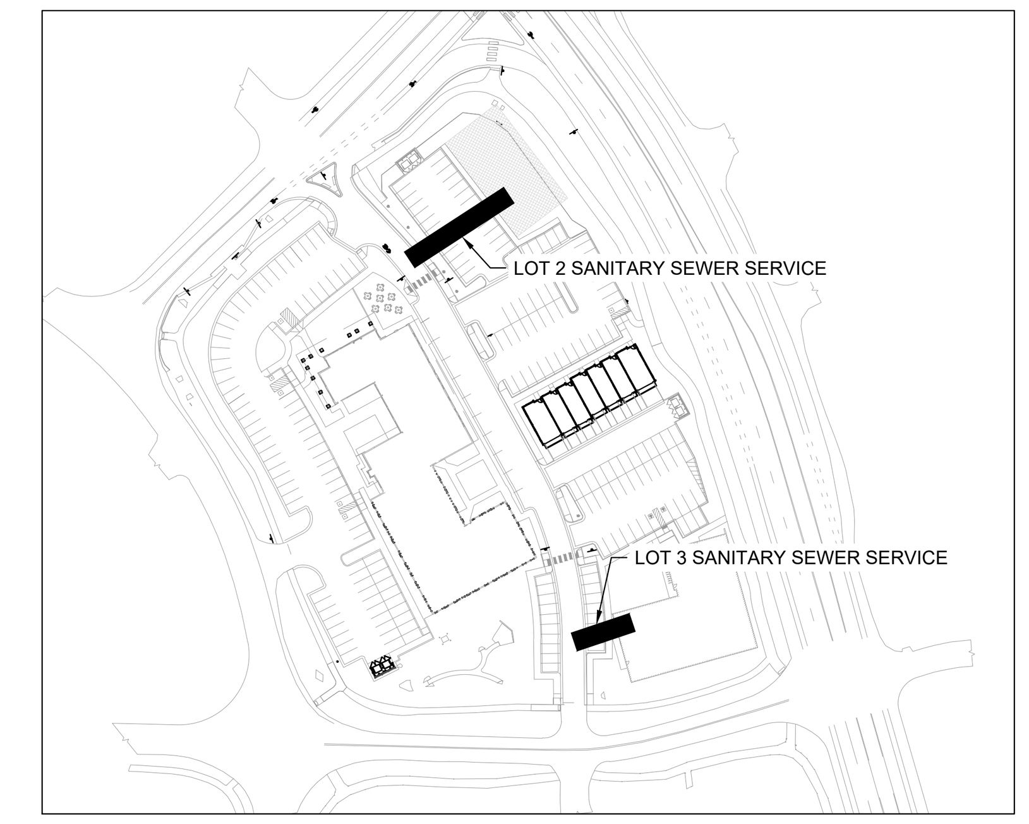
(IN FEET)
1 IN. = 10 FT.



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COLORADO LICENSED PROFESSIONAL ENGINEER 64423 3/13/26

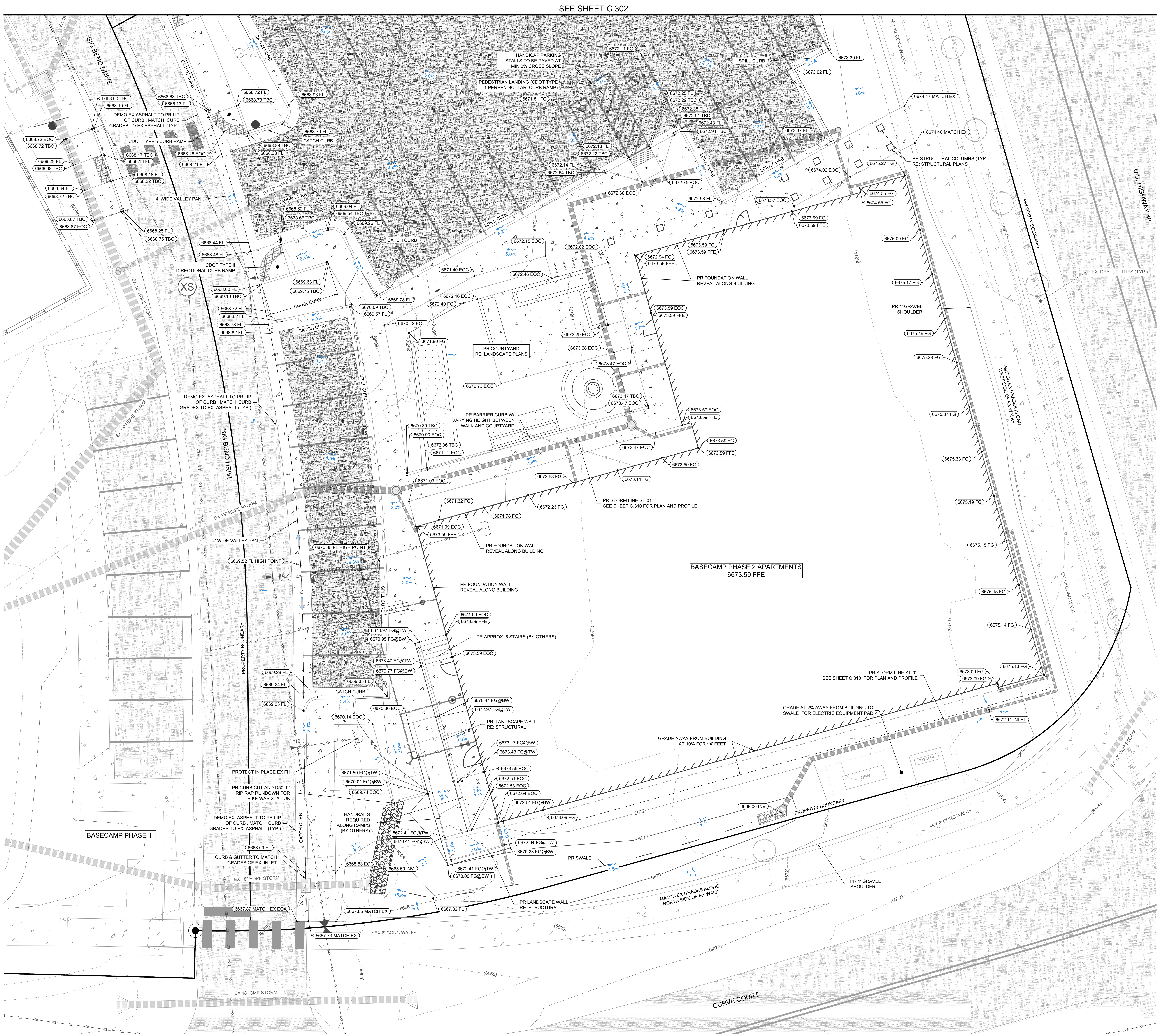
NO.	DATE:	BY:	DESCRIPTION:

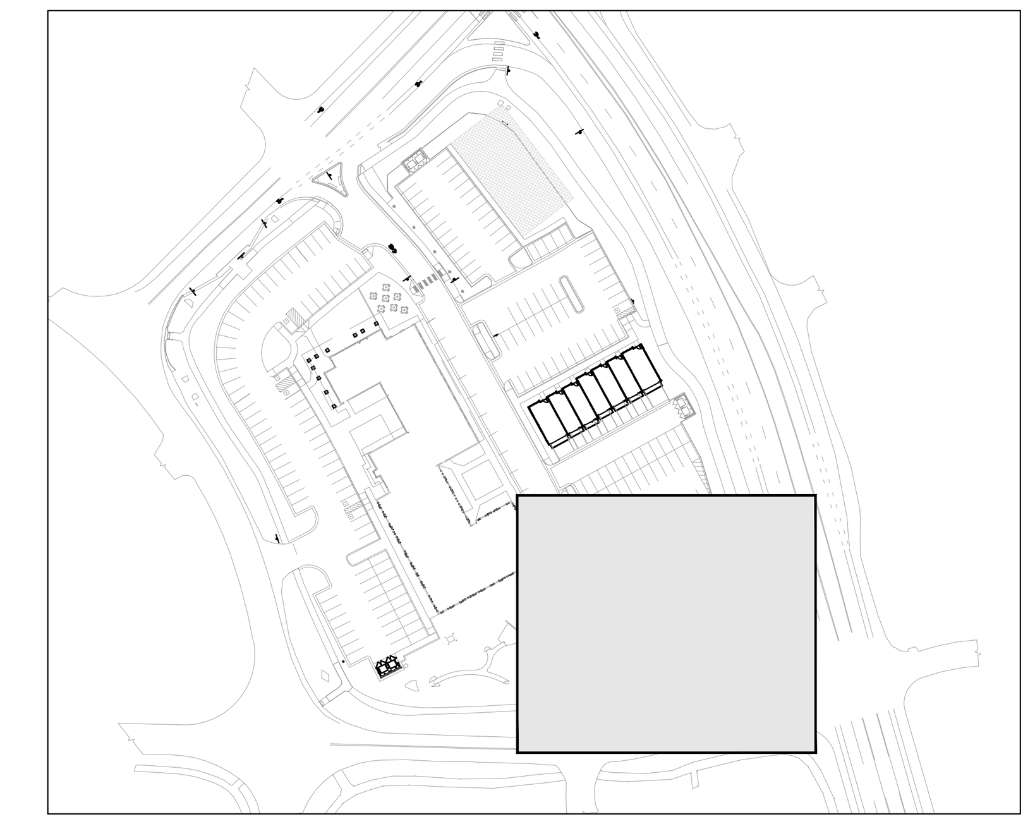
PROJECT:	2387-008
DATE:	3/13/2026
CONTACT:	Micah Gibbons
EMAIL:	micah@landmark-co.com

Steamboat Basecamp 2 Residential
Sanitary Sewer Plan & Profile

SHEET
C.220

SEE SHEET C.302





KEY MAP
NOT TO SCALE

LEGEND:

PROPOSED STORM SEWER W/ FLARED END SECTION	
PROPOSED STORM INLET (CURB & AREA)	
PROPOSED STORM MANHOLE & CLEANOUT	
EXISTING MAJOR CONTOUR	(6805)
EXISTING MINOR CONTOUR	
PROPOSED MAJOR CONTOUR	6805
PROPOSED MINOR CONTOUR	
PROPOSED SWALE	
PROPOSED CURB & GUTTER	
PROPERTY BOUNDARY	
SPOT ELEVATION	6790.50
PROPOSED OVERLAND FLOW DIRECTION W/ SLOPE	2.0%
STORM SEWER FLOW DIRECTION	
EX ASPHALT	
EX CONCRETE	
PR ASPHALT	
PR CONCRETE	

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2. PROJECT BENCHMARK: A RECOVERED NO.5 REBAR W/ ALUMINUM CAP STAMPED "LS 29039" HAVING AN ELEVATION OF 6667.80' BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) AS SHOWN HEREON.
3. ELEVATIONS FOR IMPROVEMENTS THAT ARE CONTROLLED BY ADJACENT EXISTING FACILITIES (SUCH AS PROPOSED GUTTERS ALONG EXISTING ASPHALT) MAY REQUIRE ADJUSTMENT BASED ON ACTUAL CONDITIONS. COORDINATE WITH ENGINEER TO ENSURE A CONSISTENT SECTION WITH SMOOTH TRANSITIONS WHERE NECESSARY.
4. SEE SOILS REPORT FOR PAVEMENT, SUBGRADE AND MATERIAL PREPARATION, DESIGN AND RECOMMENDATIONS.
5. ALL CURB SPOTS SHOWN ARE FLOWLINE ELEVATIONS, UNLESS NOTED OTHERWISE. ALL OTHER SPOTS ARE FINISHED GRADE ELEVATIONS.
6. CONTOUR INTERVAL = 2-FT

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COLORADO LICENSED PROFESSIONAL ENGINEER
MICAH PATRICK GIBBONS
64423
3/13/26

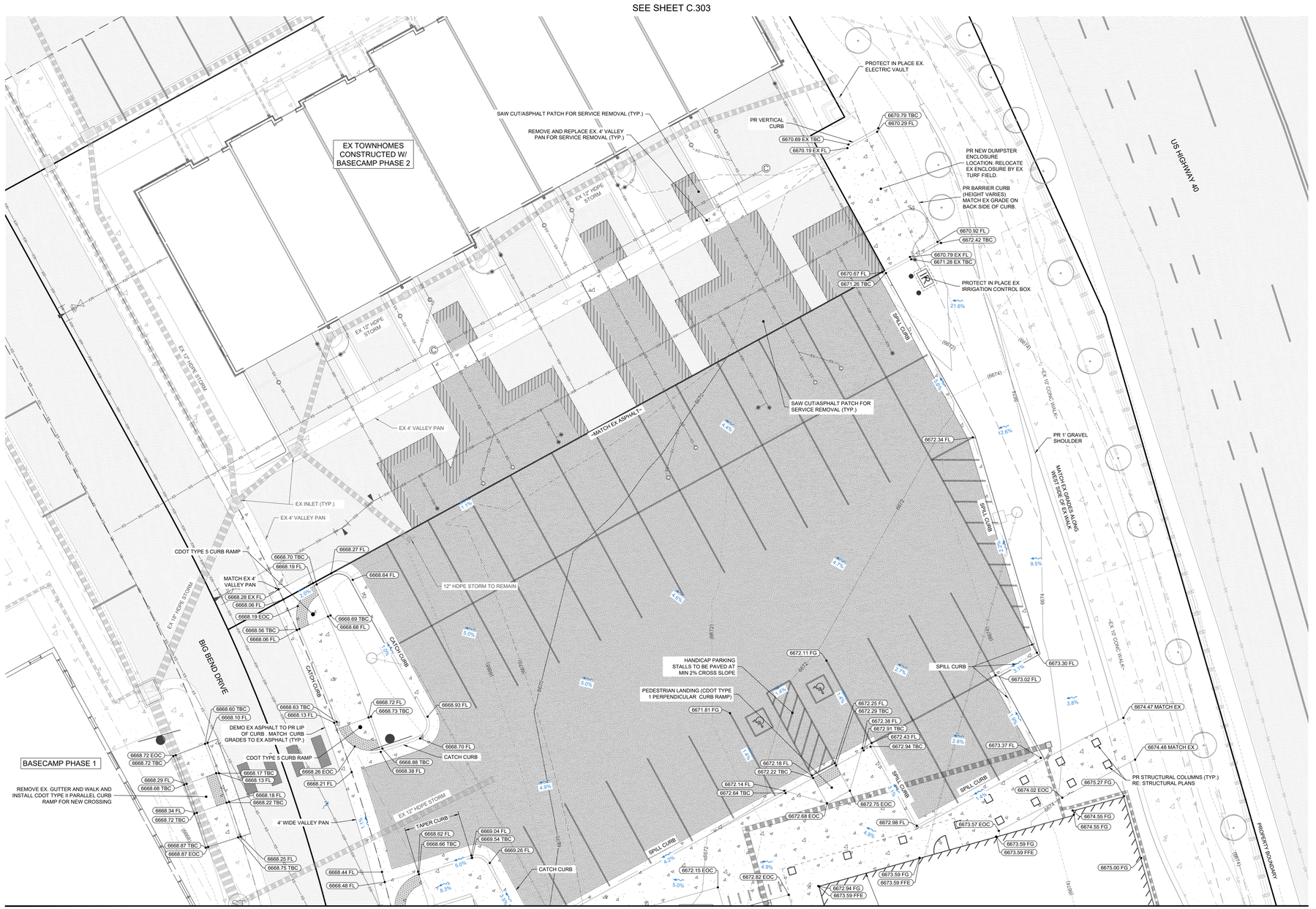
NO.	DATE:	BY:	DESCRIPTION:

PROJECT:	2387-008
DATE:	3/13/2026
CONTACT:	Micah Gibbons
EMAIL:	micahg@landmark-co.com

Steamboat Basecamp 2 Residential

Grading & Drainage Plan

SHEET
C.301



SEE SHEET C.301

NORTH

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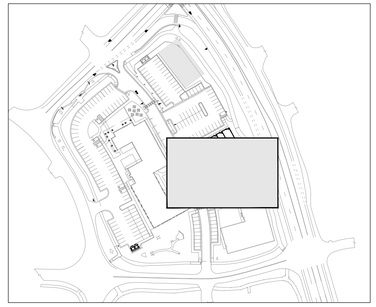
(IN FEET)
1 IN. = 10 FT.



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COLORADO LICENSED
PRINCE
64423
3/13/26
PROFESSIONAL ENGINEER

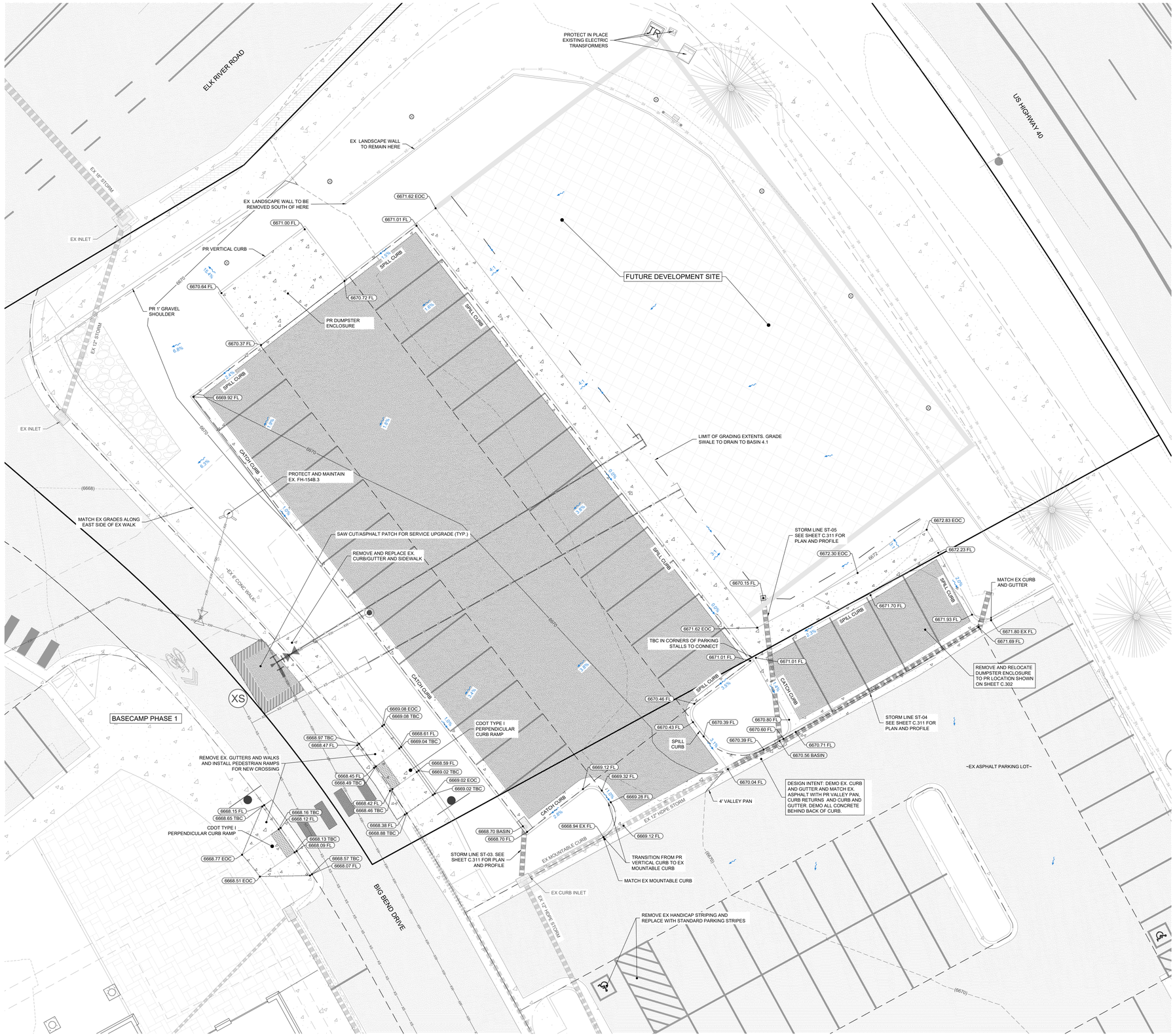
NO.	DATE:	BY:	DESCRIPTION:

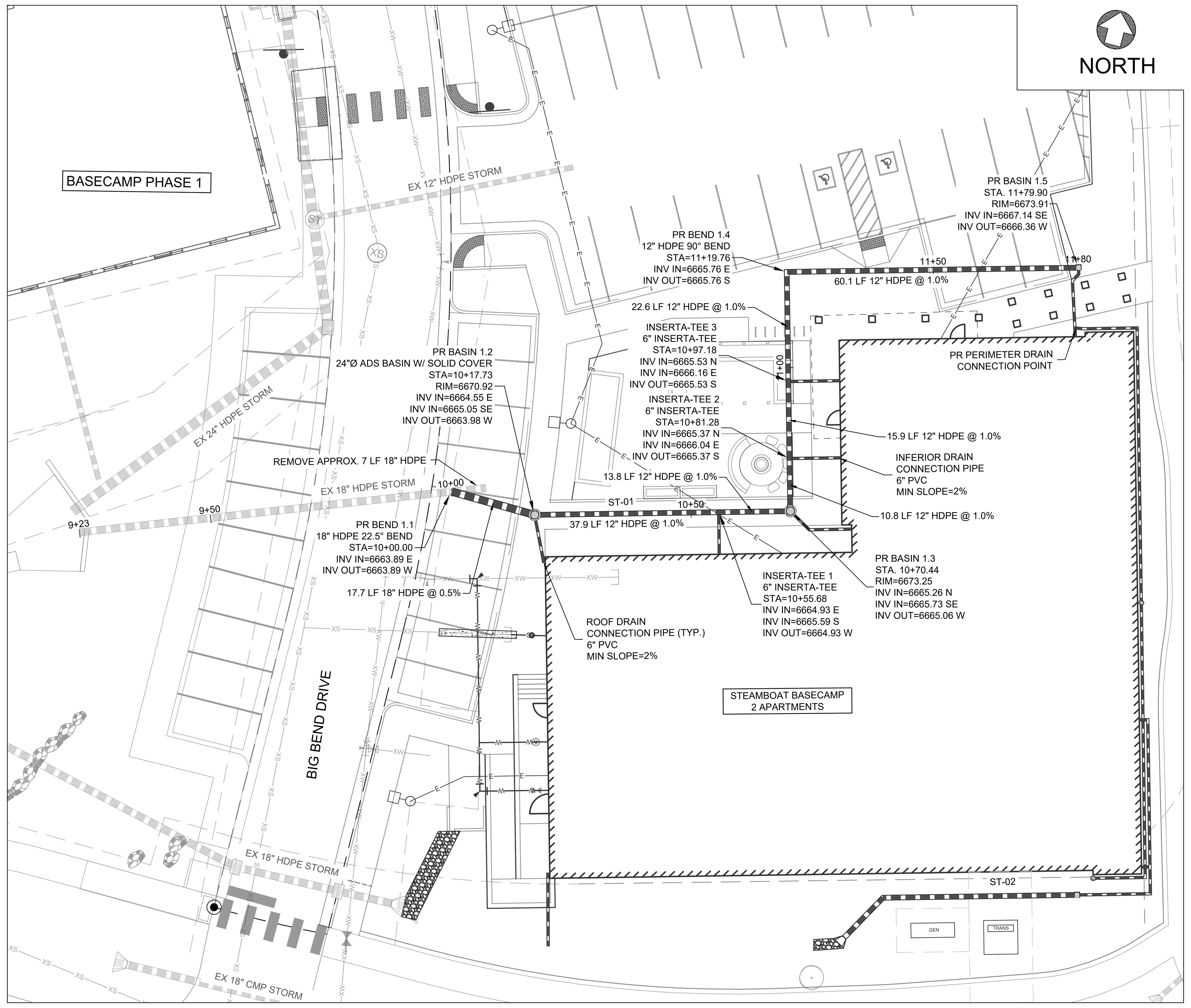
PROJECT:	2307-006
DATE:	3/13/2026
CONTACT:	Micah Gibbons
EMAIL:	micahg@landmark-co.com

Steamboat Basecamp 2 Residential
Grading & Drainage Plan

SHEET
C.303

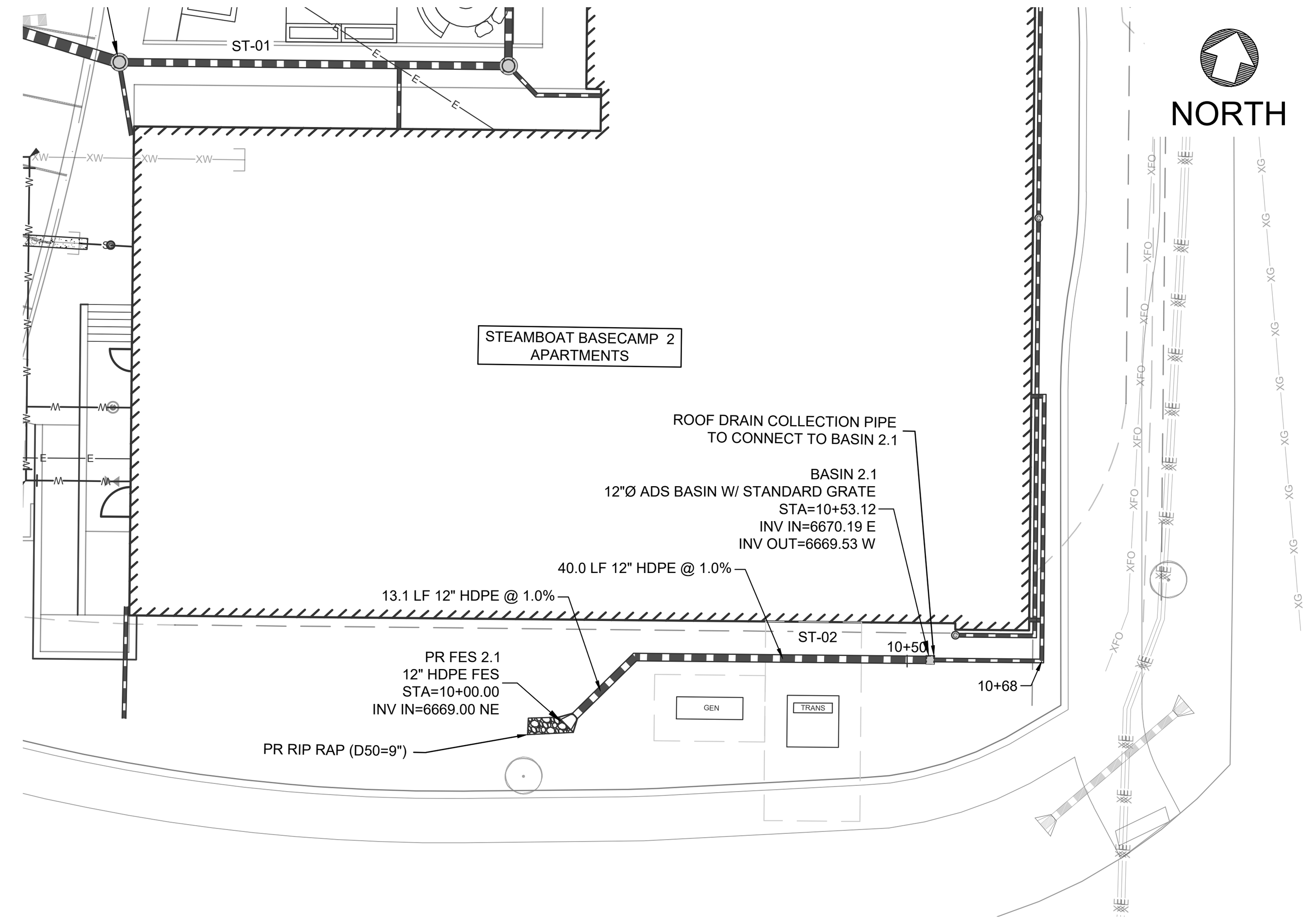
DRAWING FILENAME: P:\2307-006\Work\Production Drawings\Construction Documents\2307-006 C3-C-SHT-Grading & Drainage.dwg LAYOUT NAME: C.302 DATE: Mar 13, 2026 - 4:50pm CAD OPERATOR: micah
LIST OF XREFS: 2307-006.dwt|2307-006-dbase.jpg|2307-006-dbase.tif|2307-006-ALTA.dwg|2307-006-ALTA.tif|2307-006-base.jpg|2307-006-base.tif|2307-006-Grading & Drainage.dwg|2307-006-sheets|2307-006-sheets (Backup).dwg|2307-006-sheets (Backup 2).dwg|2307-006-sheets (Backup 3).dwg|2307-006-sheets (Backup 4).dwg|2307-006-sheets (Backup 5).dwg|2307-006-sheets (Backup 6).dwg|2307-006-sheets (Backup 7).dwg|2307-006-sheets (Backup 8).dwg|2307-006-sheets (Backup 9).dwg|2307-006-sheets (Backup 10).dwg|2307-006-sheets (Backup 11).dwg|2307-006-sheets (Backup 12).dwg|2307-006-sheets (Backup 13).dwg|2307-006-sheets (Backup 14).dwg|2307-006-sheets (Backup 15).dwg|2307-006-sheets (Backup 16).dwg|2307-006-sheets (Backup 17).dwg|2307-006-sheets (Backup 18).dwg|2307-006-sheets (Backup 19).dwg|2307-006-sheets (Backup 20).dwg|2307-006-sheets (Backup 21).dwg|2307-006-sheets (Backup


ELK RIVER ROAD
US HIGHWAY 40
PROTECT IN PLACE EXISTING ELECTRIC TRANSFORMERS
EX LANDSCAPE WALL TO REMAIN HERE
EX LANDSCAPE WALL TO BE REMOVED SOUTH OF HERE
EX 18" STORM
EX INLET
PR VERTICAL CURB
PR 1' GRAVEL SHOULDER
EX 12" STORM
EX INLET
PR DUMPSTER ENCLOSURE
FUTURE DEVELOPMENT SITE
LIMIT OF GRADING EXTENTS. GRADE SWALE TO DRAIN TO BASIN 4.1
PROTECT AND MAINTAIN EX. FH-154B.3
CATCH CURB
MATCH EX GRADES ALONG EAST SIDE OF EX WALK
SAW CUT/ASPHALT PATCH FOR SERVICE UPGRADE (TYP.)
REMOVE AND REPLACE EX. CURB/GUTTER AND SIDEWALK
EX 6' CONC WALK
BASECAMP PHASE 1
CDOT TYPE I PERPENDICULAR CURB RAMP
REMOVE EX. GUTTERS AND WALKS AND INSTALL PEDESTRIAN RAMPS FOR NEW CROSSING
CDOT TYPE I PERPENDICULAR CURB RAMP
STORM LINE ST-03. SEE SHEET C.311 FOR PLAN AND PROFILE
BIG BEND DRIVE
EX MOUNTABLE CURB
EX CURB INLET
EX 12" HDPE STORM
EX 12" RCP STORM
TRANSITION FROM PR VERTICAL CURB TO EX MOUNTABLE CURB
MATCH EX MOUNTABLE CURB
4' VALLEY PAN
DESIGN INTENT: DEMO EX. CURB AND GUTTER AND MATCH EX. ASPHALT WITH PR VALLEY PAN. CURB RETURNS AND CURB AND GUTTER. DEMO ALL CONCRETE BEHIND BACK OF CURB.
STORM LINE ST-04 SEE SHEET C.311 FOR PLAN AND PROFILE
STORM LINE ST-05 SEE SHEET C.311 FOR PLAN AND PROFILE
TBC IN CORNERS OF PARKING STALLS TO CONNECT
REMOVE AND RELOCATE DUMPSTER ENCLOSURE TO PR LOCATION SHOWN ON SHEET C.302
MATCH EX CURB AND GUTTER
~EX ASPHALT PARKING LOT~
REMOVE EX HANDICAP STRIPING AND REPLACE WITH STANDARD PARKING STRIPES
SPILL CURB
6671.62 EOC
6671.01 FL
6671.00 FL
6670.64 FL
6670.72 FL
6670.37 FL
6669.92 FL
6672.83 EOC
6672.23 FL
6672.30 EOC
6670.15 FL
6671.70 FL
6671.93 FL
6671.80 EX FL
6671.69 FL
6670.46 FL
6670.43 FL
6670.39 FL
6670.80 FL
6670.60 FL
6670.71 FL
6670.56 BASIN
6670.04 FL
6669.08 EOC
6669.08 TBC
6668.61 FL
6669.04 TBC
6668.97 TBC
6668.47 FL
6668.59 FL
6669.02 TBC
6668.45 FL
6668.49 TBC
6669.02 EOC
6669.02 TBC
6668.42 FL
6668.46 TBC
6668.38 FL
6668.88 TBC
6668.15 FL
6668.65 TBC
6668.16 TBC
6668.12 FL
6668.13 TBC
6668.09 FL
6668.77 EOC
6668.57 TBC
6668.07 FL
6668.51 EOC
6669.12 FL
6669.32 FL
6669.28 FL
6668.94 EX FL
6669.12 FL
6668.70 BASIN
6668.70 FL
(6668)
(6670)
(6672)
(6670)
(6670)
(6670



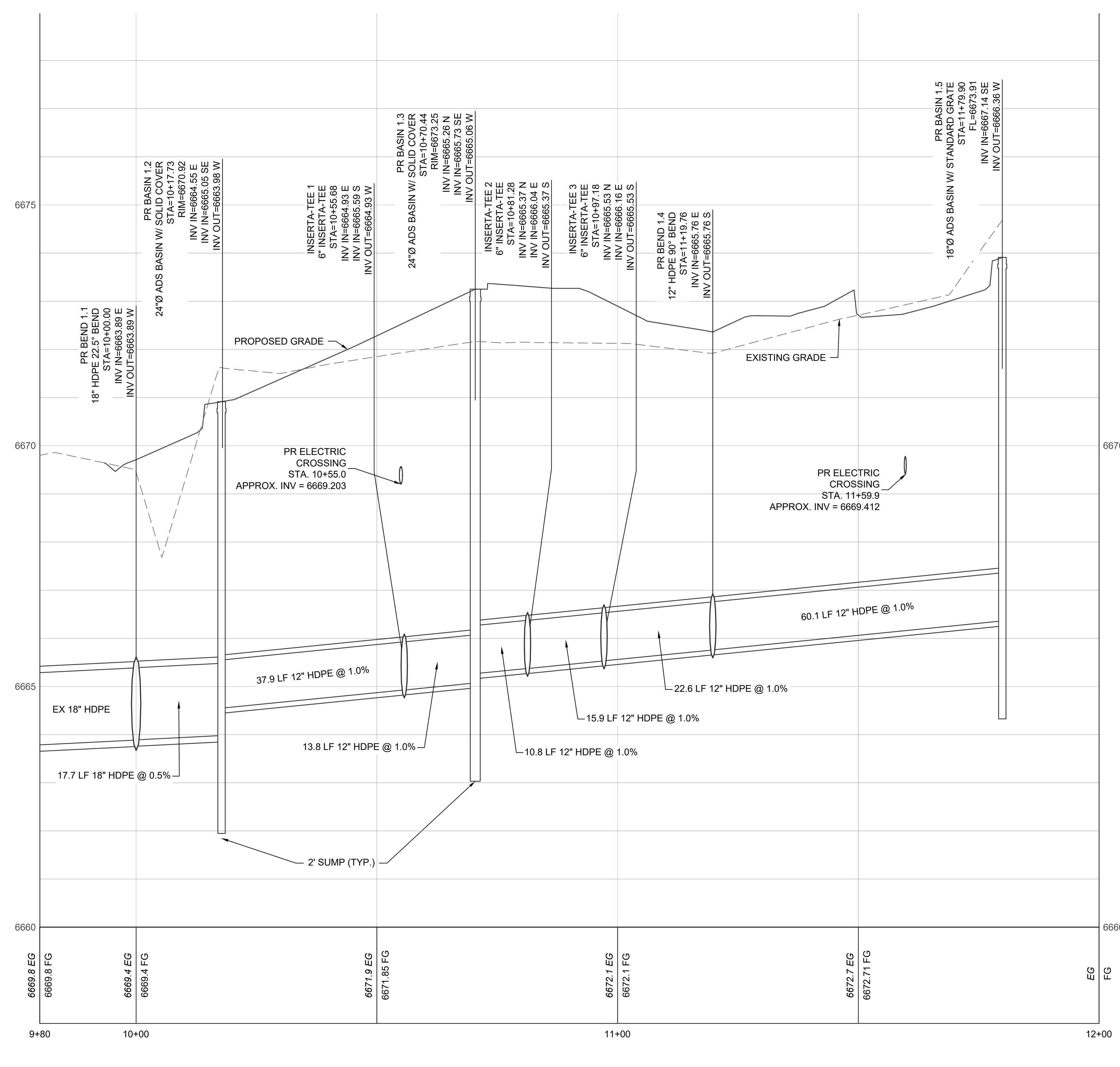
ST-01 PLAN & PROFILE

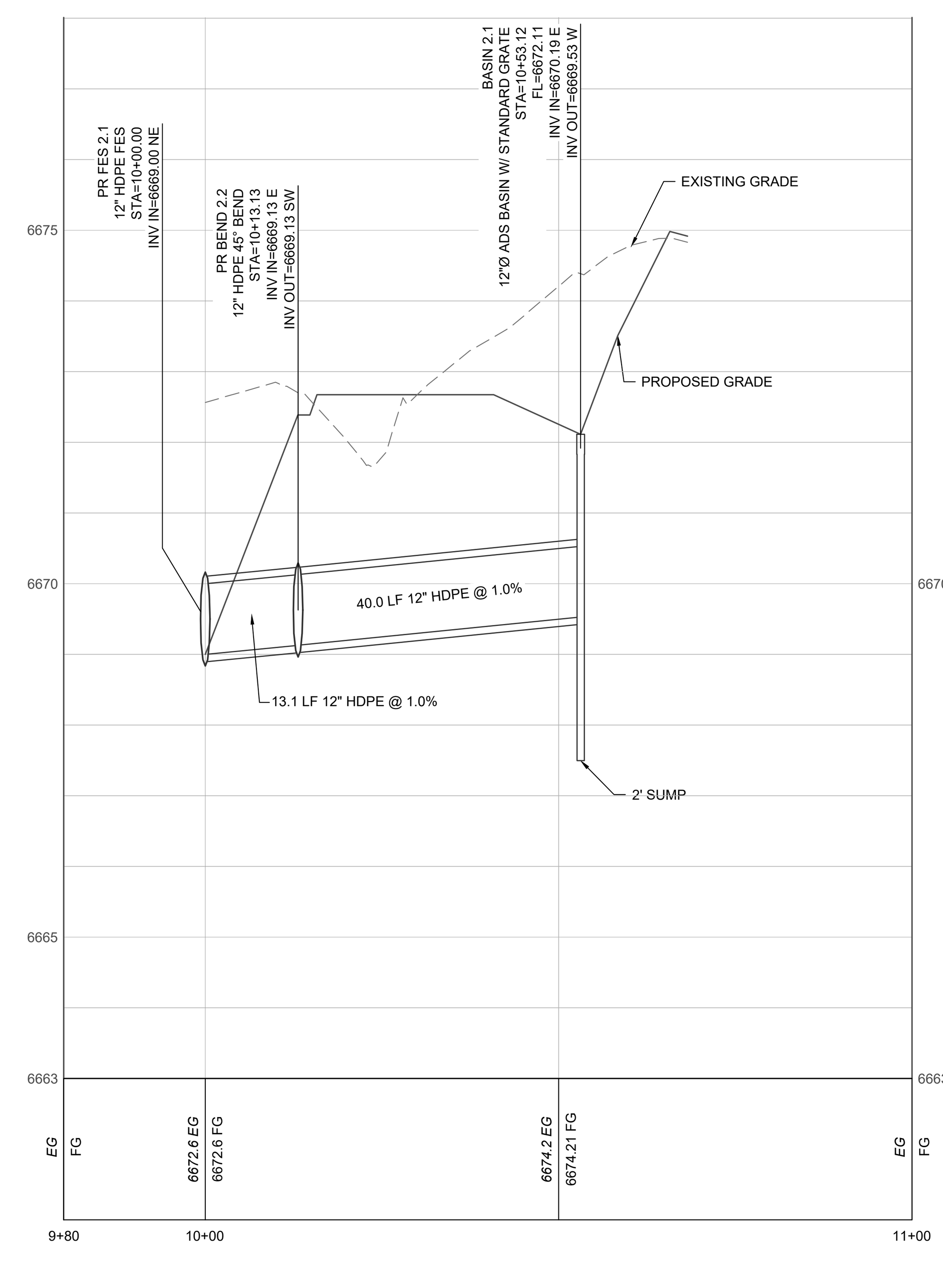
PROFILE SCALE: 1" = 20' (H) 1" = 2' (V)



ST-02 PLAN & PROFILE

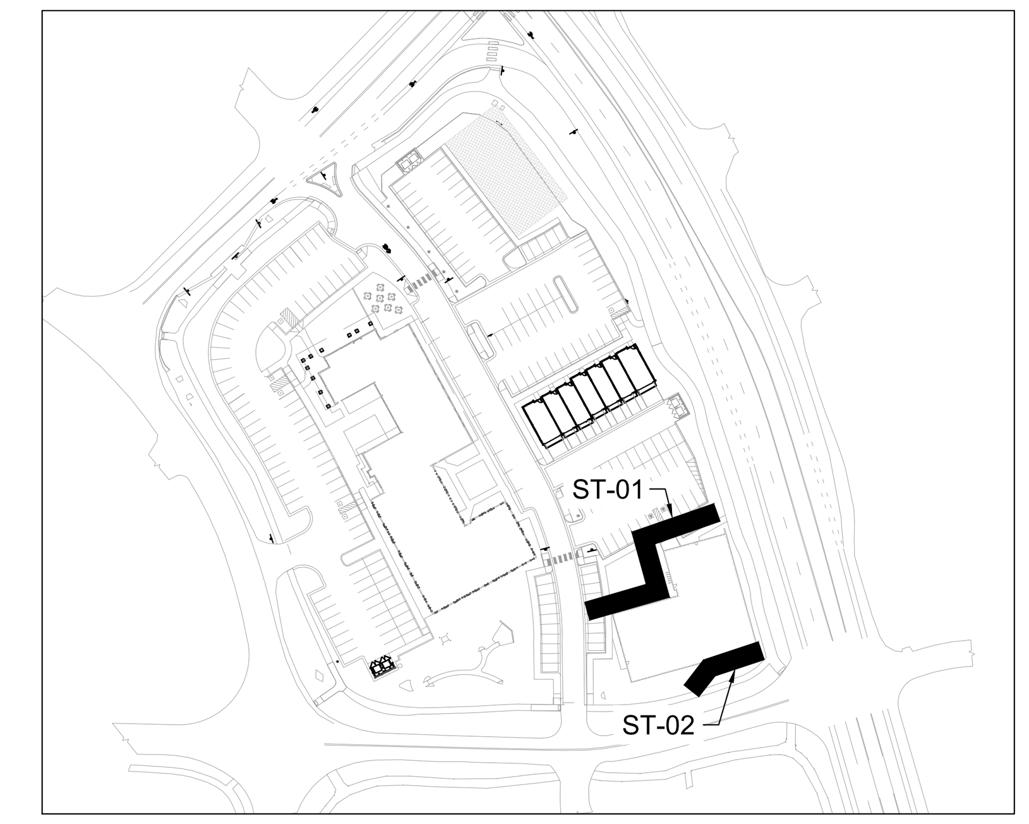
PROFILE SCALE: 1" = 20' (H) 1" = 2' (V)





20 0 20 40 60

(IN FEET)
1 IN. = 20 FT.



KEY MAP
NOT TO SCALE

UTILITY PLAN LEGEND:

- EXISTING SANITARY SEWER W/ MH & C.O.
- EXISTING WATER
- PROPOSED SANITARY SEWER W/ MH & C.O.
- PROPOSED WATER PIPE
- PROPOSED GV, FH & CS
- PROPOSED STORM SEWER W/ FLARED END SECTION
- PROPOSED STORM INLET (CURB & AREA)
- PROPOSED STORM MANHOLE & CLEANOUT
- APPROX. PAVEMENT SAW CUT

NOTES:

1. THE SIZE, TYPE AND LOCATION OF ALL KNOWN UNDERGROUND UTILITIES ARE APPROXIMATE WHEN SHOWN ON THESE DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE OF ALL UNDERGROUND UTILITIES IN THE AREA OF THE WORK. BEFORE COMMENCING NEW CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES AND SHALL BE RESPONSIBLE FOR ALL UNKNOWN UNDERGROUND UTILITIES.
2. EXISTING UNDERGROUND AND OVERHEAD PUBLIC AND PRIVATE UTILITIES AS SHOWN ARE INDICATED ACCORDING TO THE BEST INFORMATION MADE AVAILABLE TO THE ENGINEER. THE ENGINEER DOES NOT GUARANTEE NOR IS RESPONSIBLE FOR THE ACCURACY OF SUCH INFORMATION. EXISTING UTILITY MAINS AND SERVICES MAY NOT BE STRAIGHT LINES OR AS INDICATED ON THESE DRAWINGS. CONTRACTOR TO VERIFY EXISTING HORIZONTAL AND VERTICAL LOCATIONS PRIOR TO CONSTRUCTION.
3. ALL SEWER AND WATER CONSTRUCTION SHALL BE PER THE CITY OF STEAMBOAT SPRINGS STANDARD SPECIFICATIONS, LATEST EDITION.
4. MAINTAIN 10' HORIZONTAL AND 18" VERTICAL MINIMUM SEPARATION BETWEEN ALL SANITARY SEWER MAINS, WATER MAINS & SERVICES.
5. MANHOLES LOCATED OUTSIDE OF THE ROADWAY SHALL PROTRUDE 1' ABOVE EXISTING GRADE TO REDUCE INFILTRATION. GRADE SURFACE TO DRAIN AROUND/AWAY FROM MANHOLE RIMS.
6. ALL MANHOLES LOCATED IN THE ROADWAY SHALL HAVE RIM ELEVATIONS ADJUSTED TO ¼" BELOW FINISHED GRADE. IF NECESSARY, CONE SECTIONS SHALL BE ROTATED TO PREVENT LIDS BEING LOCATED WITHIN VEHICLE OR BICYCLE WHEEL PATHS.
7. SEWER SERVICE SHALL HAVE A MINIMUM OF 4-FT OF COVER.
8. WATER SERVICE SHALL HAVE A MINIMUM OF 7-FT OF COVER.
9. ALL WATER PIPE SHALL BE INSTALLED WITH A #10 SOLID COPPER WIRE COATED WITH 45 MIL POLYETHYLENE FOR LOCATING PURPOSES. "GLENN TEST STATIONS" BY VALVCO, INC TRACER WIRE TEST STATIONS SHALL BE INSTALLED ADJACENT TO ALL FIRE HYDRANTS. ADDITIONAL LOCATIONS MAY BE REQUIRED.
10. ALL MATERIALS USED FOR BACKFILL SHALL BE FREE FROM REFUSE ORGANIC MATERIAL, COBBLES, BOULDERS, LARGE ROCKS OR STONES OR FROZEN SOILS GREATER THAN 6-INCHES IN DIAMETER.
11. ALL TRENCHES SHALL BE COMPACTED TO 95% AS DETERMINED BY ASTM D698 (STANDARD PROCTOR) OR AS SPECIFIED BY GEOTECHNICAL ENGINEER.
12. ALL WATER MAINS AND SERVICES (4-INCHES AND LARGER DIAMETER) SHALL BE PVC, NOT D.I.P.
13. COORDINATE WATER/SEWER SERVICE AND PAVEMENT WORK DISRUPTIONS WITH OWNERS OF EX. TOWNHOMES AND CITY OF STEAMBOAT SPRINGS.

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COLORADO LICENSED PROFESSIONAL ENGINEER
MICAH PATRICK GIBBONS
64423
3/13/26

NO.	DATE:	BY:	DESCRIPTION:

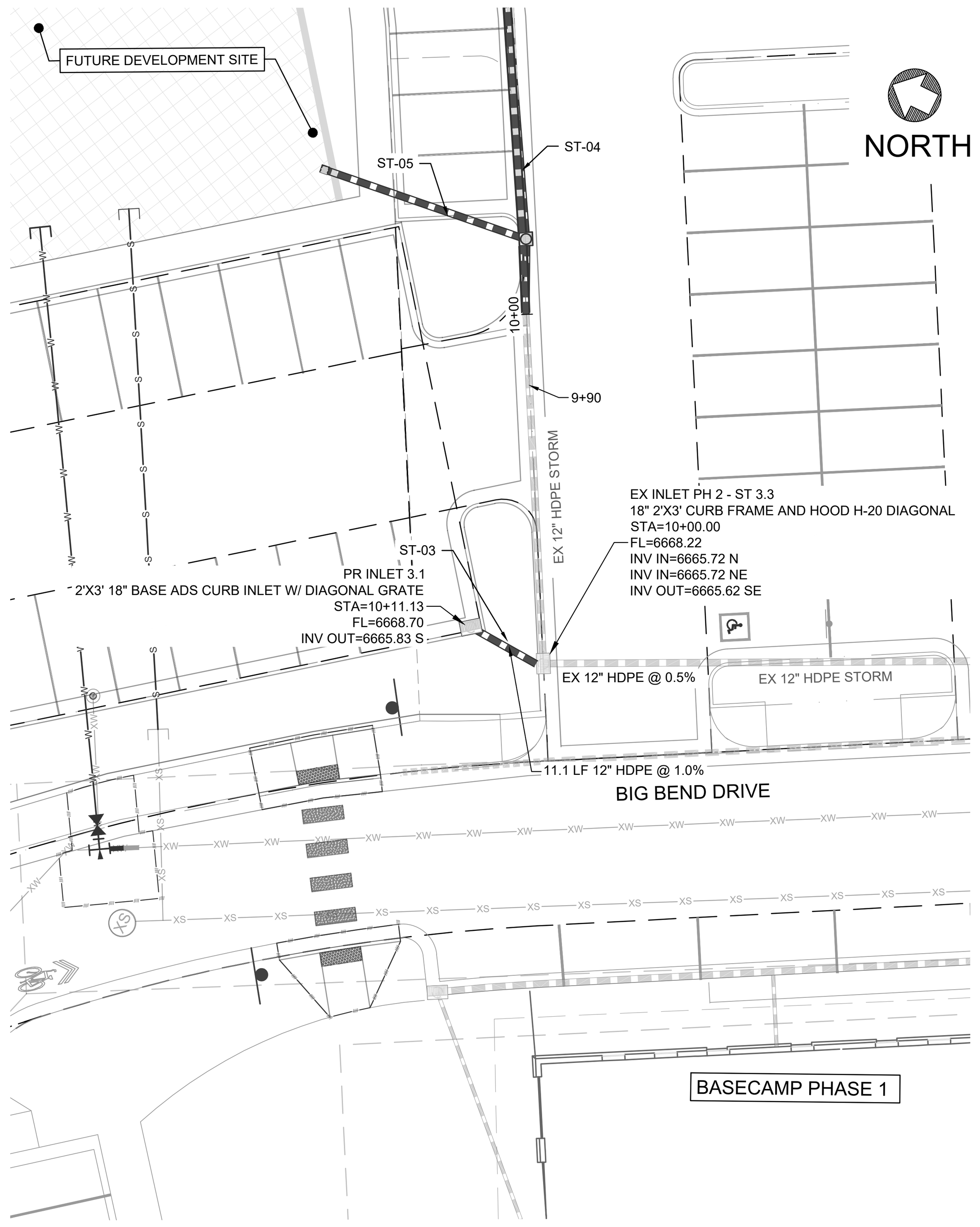
PROJECT:	2387-008
DATE:	3/13/2026
CONTACT:	Micah Gibbons
EMAIL:	micahg@landmark-co.com

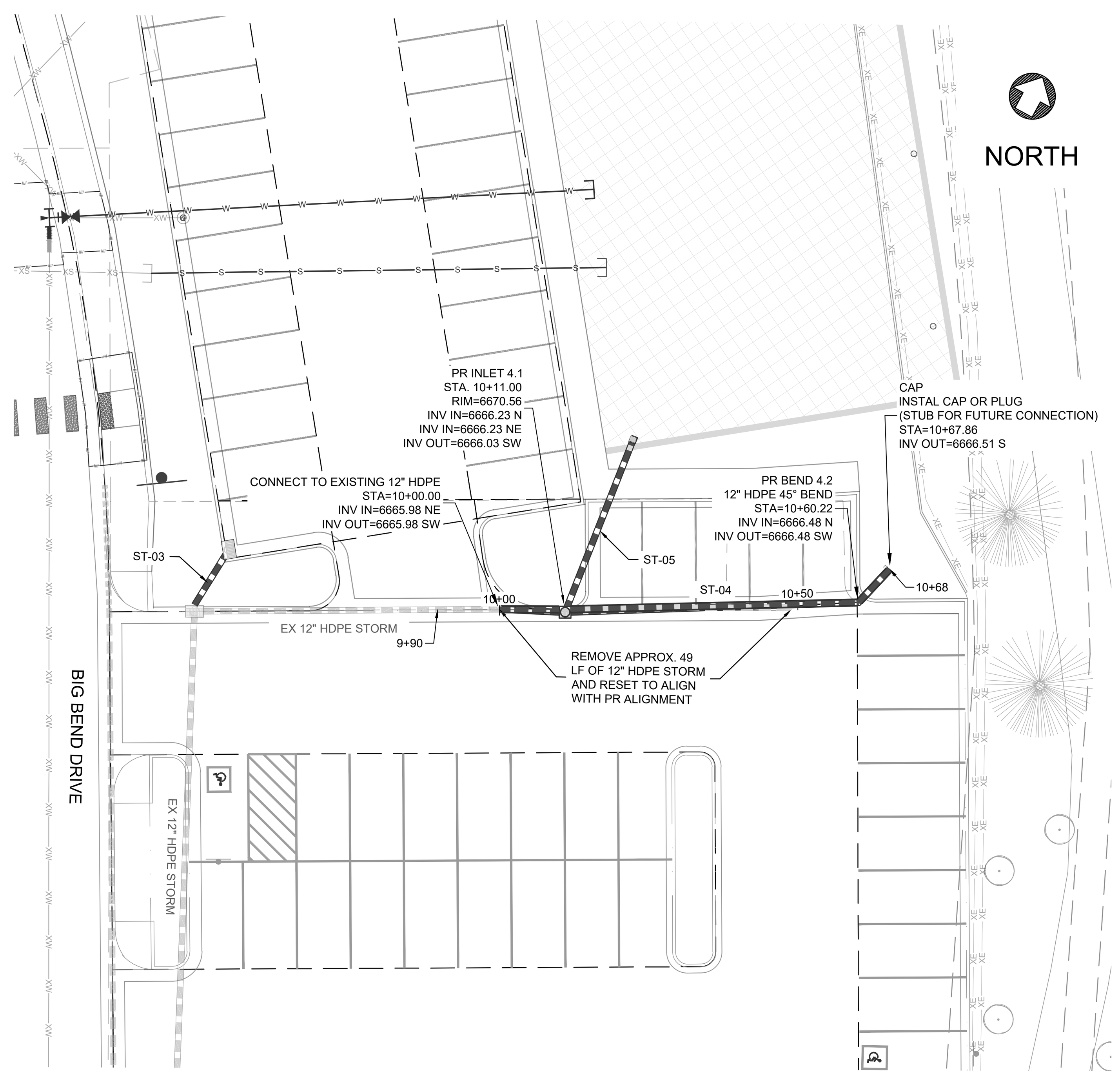
Steamboat Basecamp 2 Residential

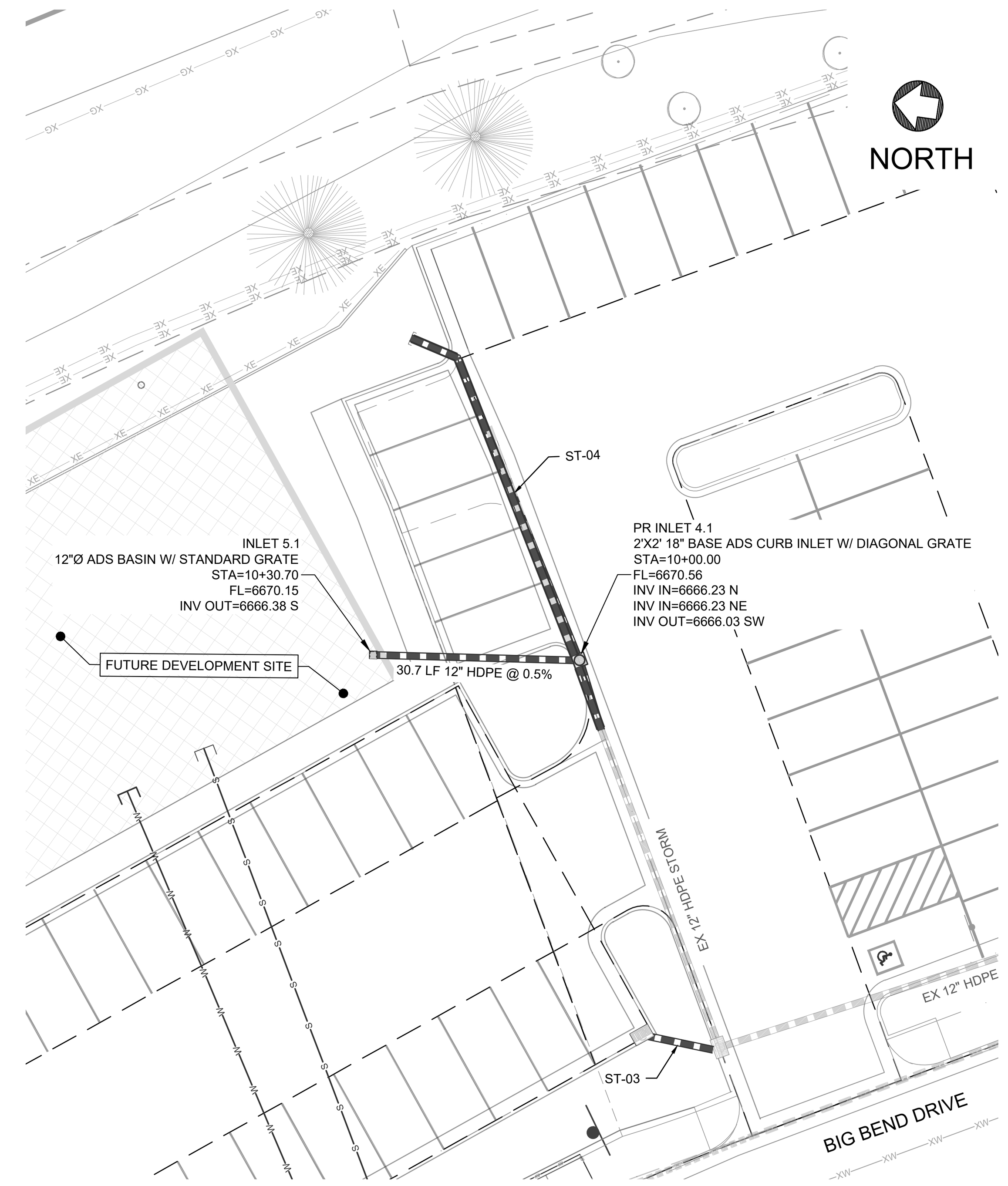
Storm Plan & Profile

SHEET

C.310

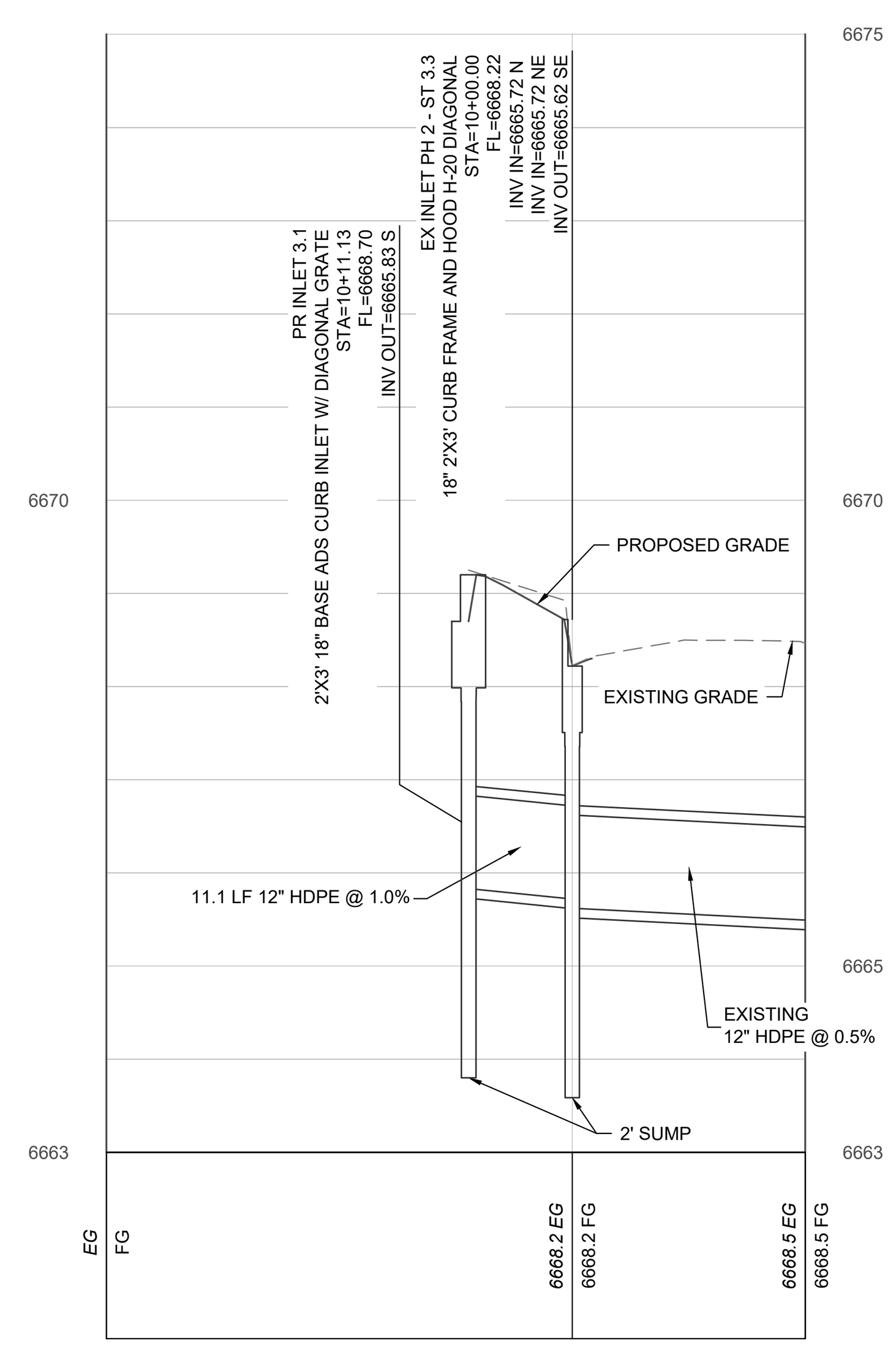






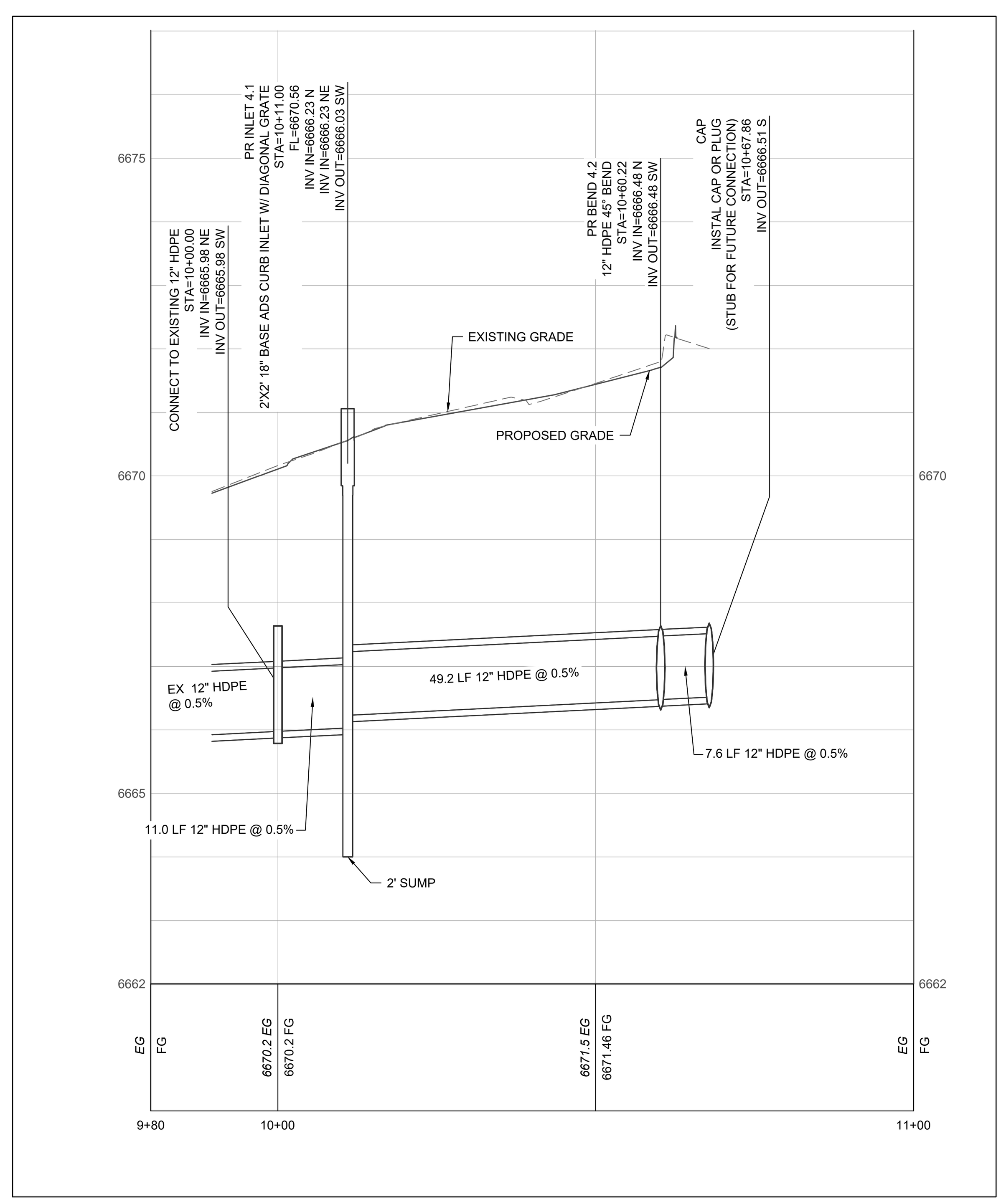
ST-03 PLAN & PROFILE

PROFILE SCALE: 1" = 20' (H) 1" = 2' (V)



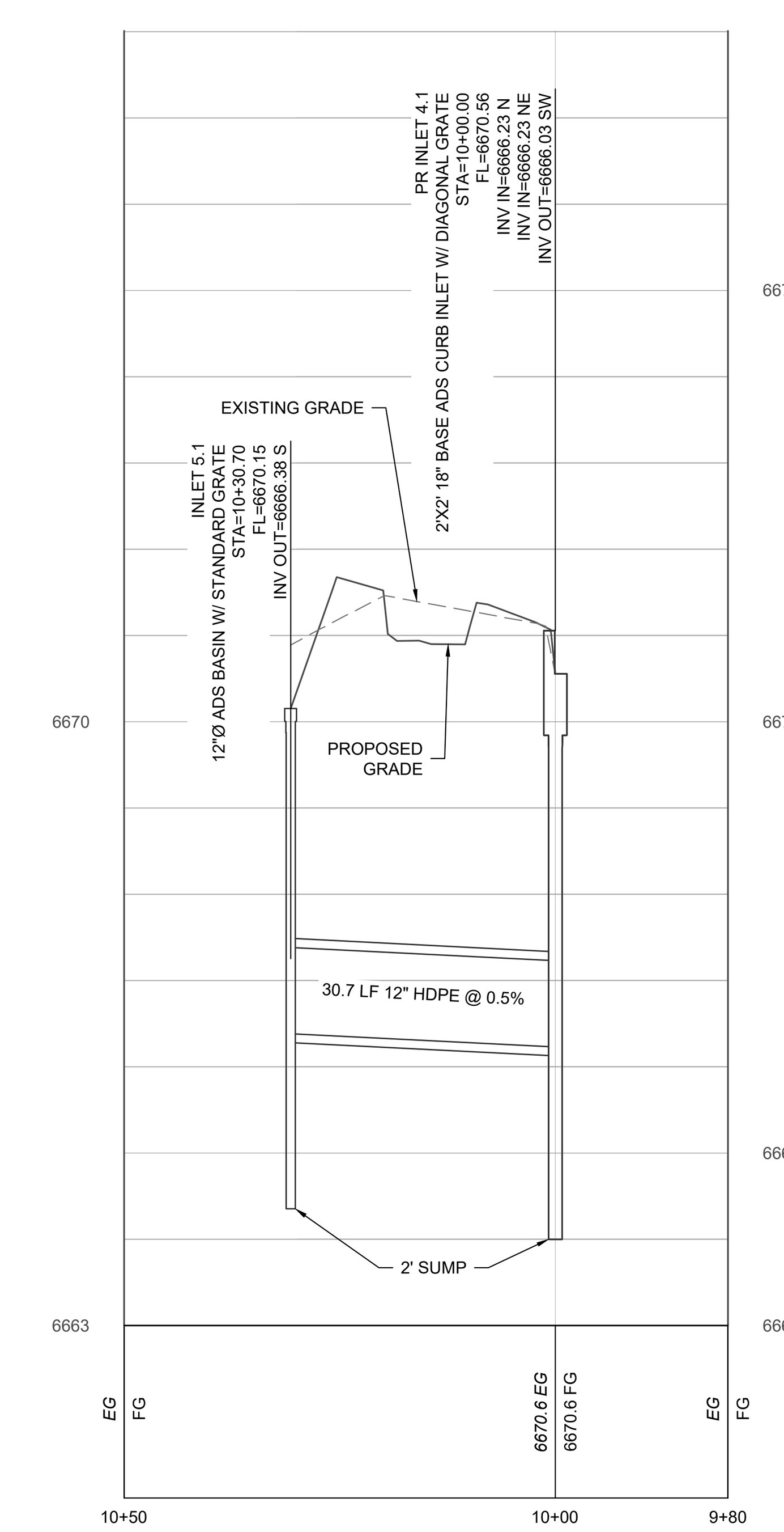
ST-04 PLAN & PROFILE

PROFILE SCALE: 1" = 20' (H) 1" = 2' (V)



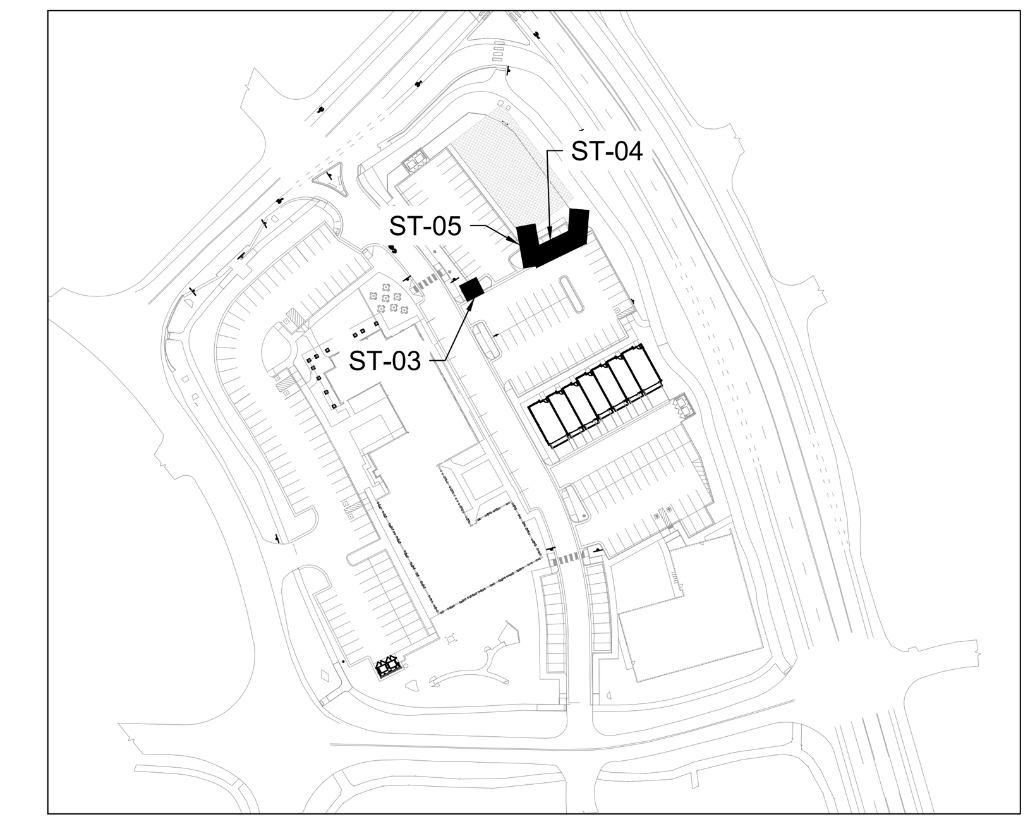
ST-05 PLAN & PROFILE

PROFILE SCALE: 1" = 20' (H) 1" = 2' (V)



20' 0 20' 40' 60'

(IN FEET)
1 IN. = 20 FT.



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- APPROX. PAVEMENT SAW CUT

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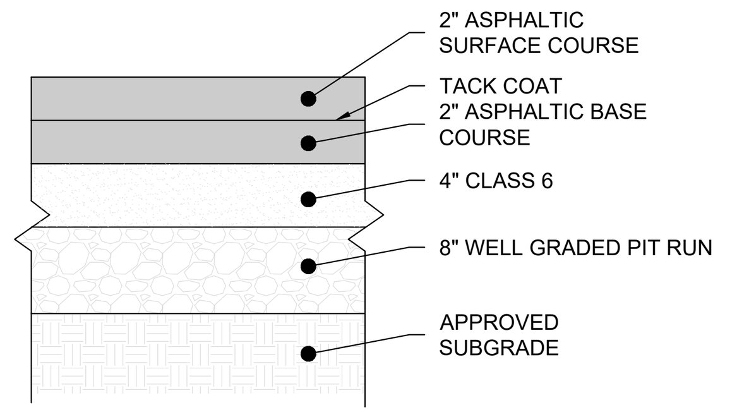
PROJECT:	2387-008
DATE:	3/13/2026
CONTACT:	Micah Gibbons
EMAIL:	micahg@landmark-co.com

Steamboat Basecamp 2 Residential

Storm Plan & Profile

SHEET

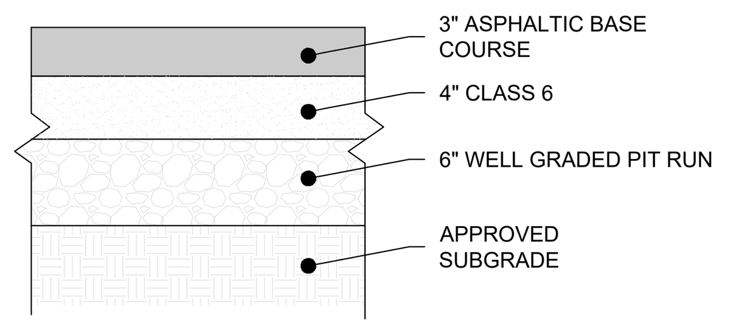
C.311



NOTE:

1. REFER TO NWCC REPORT FOR ADDITIONAL INFORMATION REGARDING PAVEMENT RECOMMENDATIONS.

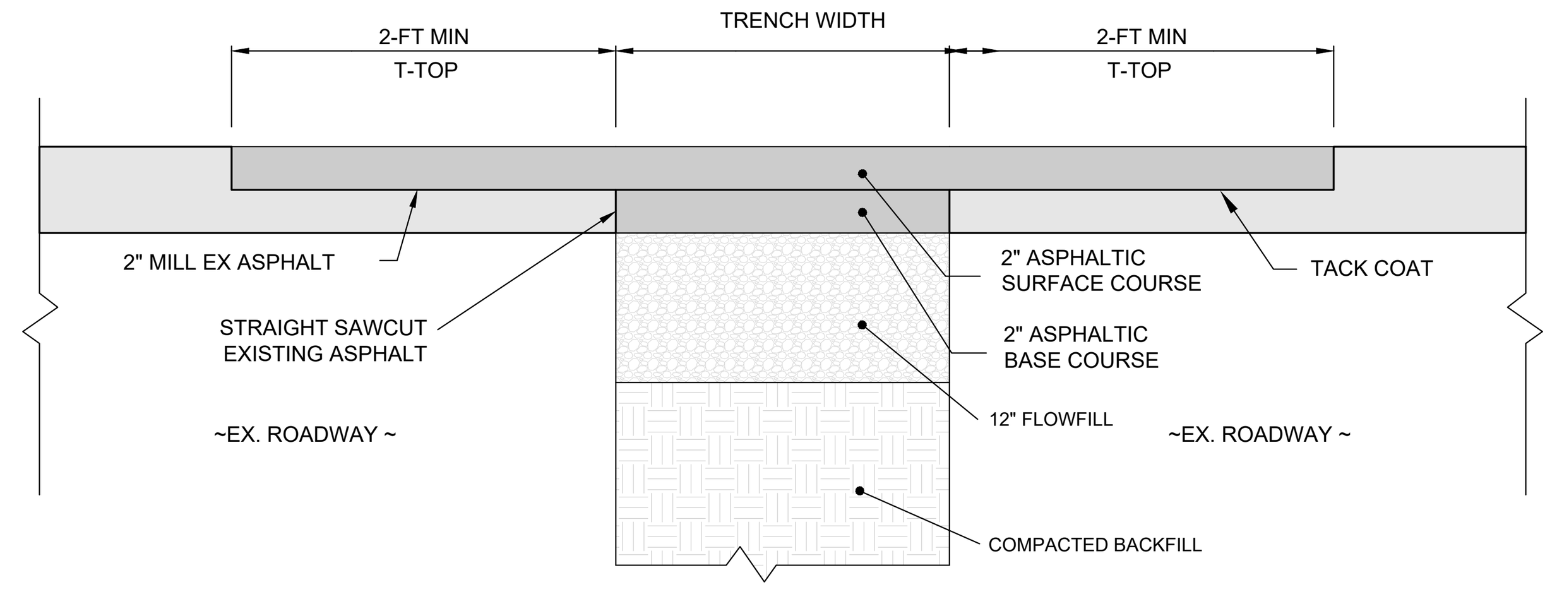
1.1 HEAVY TRAFFIC (ALL NON-PARKING STALLS) ASPHALT SECTION
N.T.S.



NOTE:

1. REFER TO NWCC REPORT FOR ADDITIONAL INFORMATION REGARDING PAVEMENT RECOMMENDATIONS.

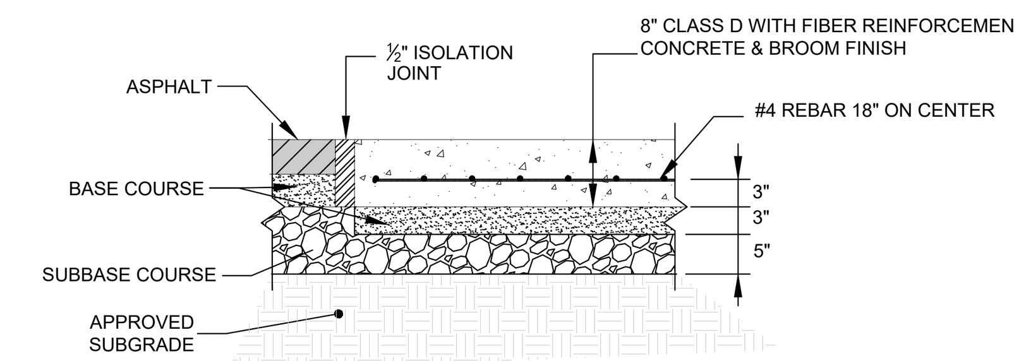
1.2 LIGHT TRAFFIC (PARKING STALLS) ASPHALT SECTION
N.T.S.



1.3 T-TOP AND ASPHALT TRENCH PATCH (W/ FLOWFILL) SECTION
N.T.S

NOTES:

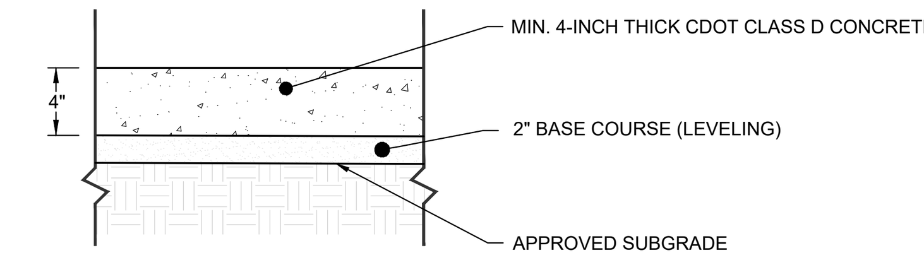
1. IF FINAL PAVING IS NOT SCHEDULED WITHIN 48 HOURS OF PLACEMENT OF FLOW FILL, CONTRACTOR SHALL PLACE FLOW FILL TO FINISHED GRADE, THEN THE TOP 4-INCHES SHALL BE REMOVED IMMEDIATELY PRIOR TO FINAL ASPHALT PAVING.



NOTE:

1. REFER TO NWCC REPORT FOR ADDITIONAL INFORMATION REGARDING PAVEMENT RECOMMENDATIONS.

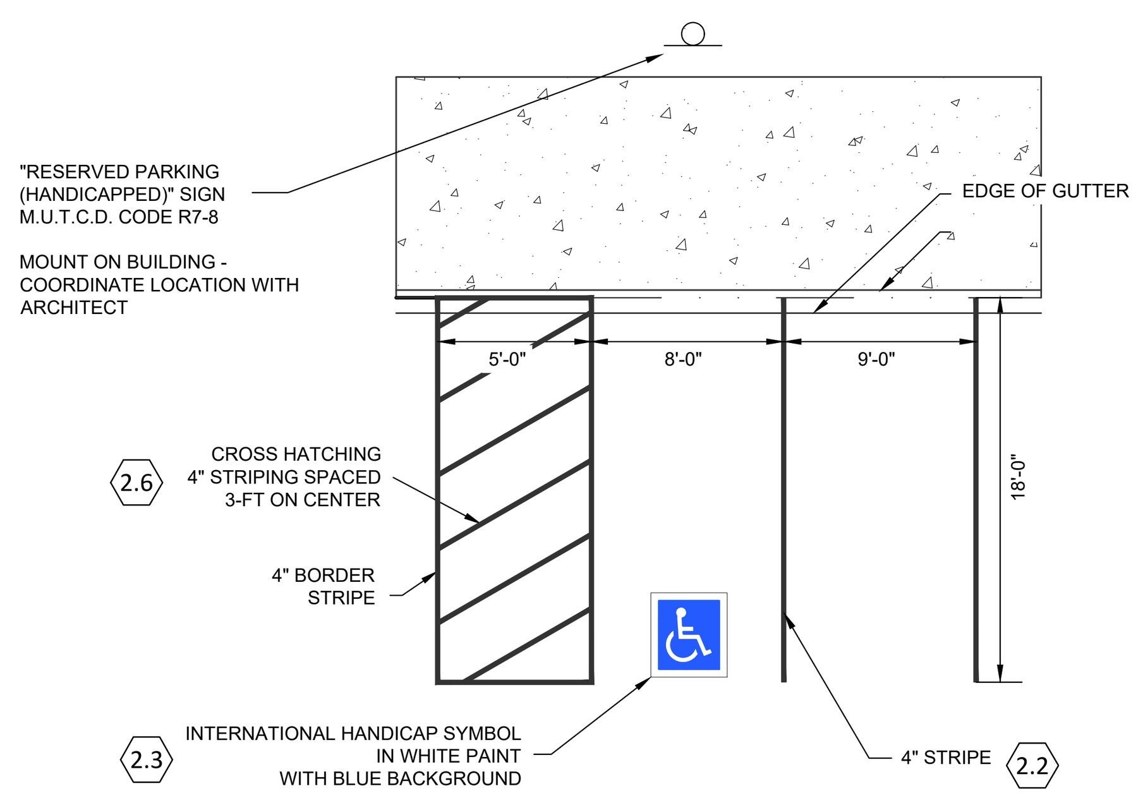
1.5 DUMPSTER PAD
N.T.S.



1.6 SIDEWALK AND PATIO SECTION - NON-TRAFFIC
N.T.S.

NOTE:

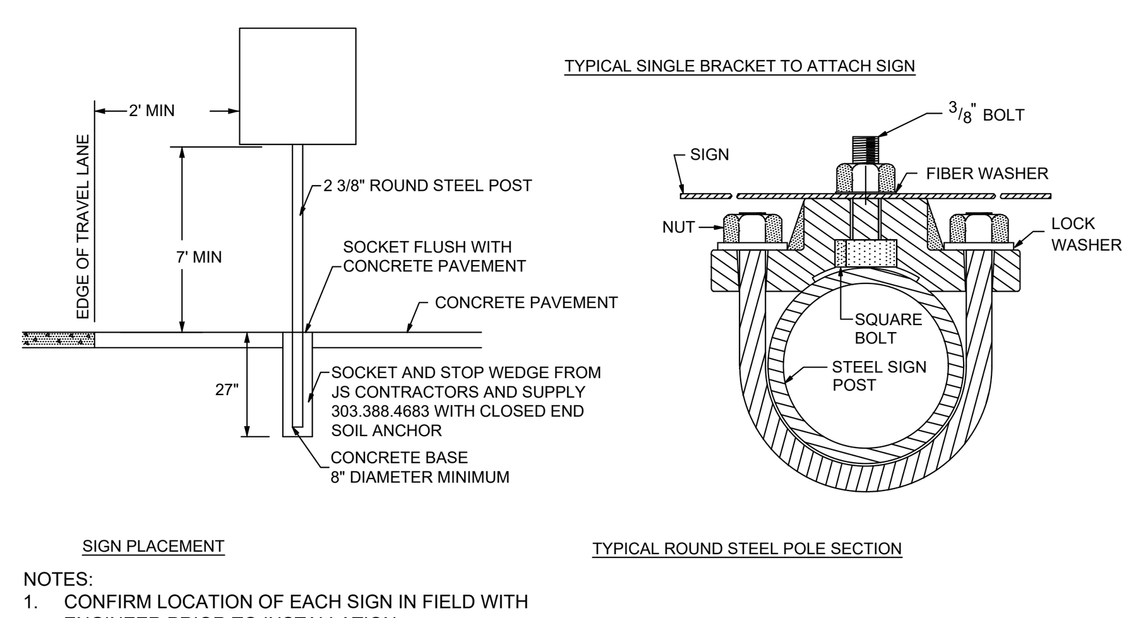
1. REFER TO NWCC REPORT FOR ADDITIONAL INFORMATION REGARDING PAVEMENT RECOMMENDATIONS.



PAVEMENT MARKING NOTES:

1. PAVEMENT MARKING PAINT SHALL BE YELLOW LATEX, WATERBORNE EMULSION, LEAD AND CHROMATE FREE, READY MIXED, COMPLYING WITH FS TT-P-1952, WITH DRYING TIME LESS THAN 45 MINUTES.
2. PAINT PAVEMENT MARKINGS ONLY ON CLEAN, DRY SURFACES AND AT A MINIMUM AMBIENT OR SURFACE TEMPERATURE OF 50° F AND MAXIMUM AMBIENT OR SURFACE TEMPERATURE OF 95° DEG F.

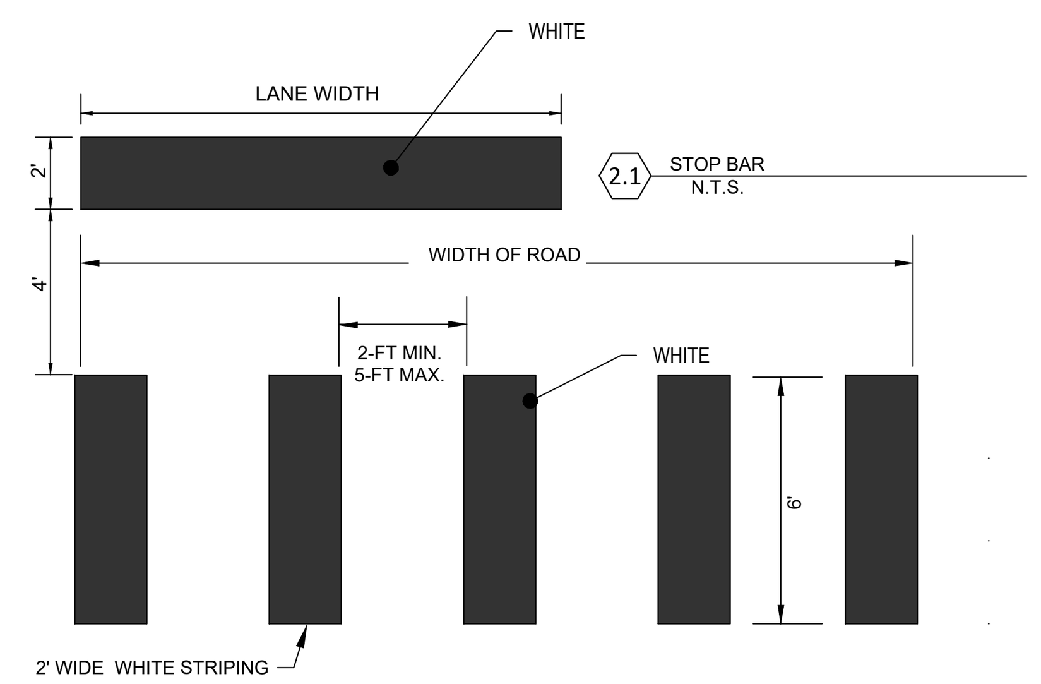
TYPICAL STRIPED PARKING LAYOUT
N.T.S.



NOTES:

1. CONFIRM LOCATION OF EACH SIGN IN FIELD WITH ENGINEER PRIOR TO INSTALLATION.

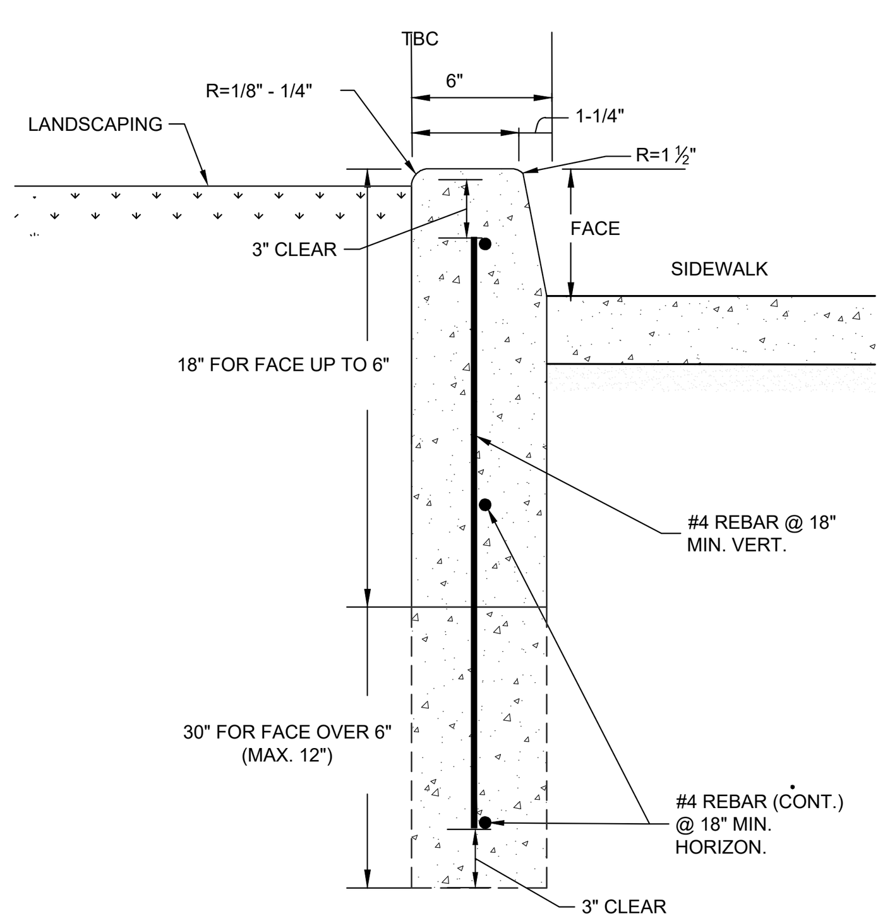
SIGN INSTALLATION DETAIL
N.T.S.



2.5 CONTINENTAL CROSS WALK STRIPING
N.T.S.

CONTINENTAL CROSS WALK STRIPING NOTES:

1. CENTER CROSSWALKS ON CURB RAMPS. IF SUCH RAMPS ARE NOT PROVIDED, CENTER ON SIGNAL POLES WHEREVER PRACTICAL.
2. CENTER CROSSWALKS ON EDGE LINES, LANE LINES AND CHANNELIZING LINES.
3. CENTER CROSSWALKS BETWEEN ADJACENT LINES.
4. MARKINGS SHALL NOT BE WITHIN WHEEL PATH OF VEHICLES.
5. REFER TO CDOT STANDARD PLAN NO. S-627-1 FOR ADDITIONAL INFORMATION



4.4 MODIFIED CDOT CURB TYPE-2 (SECTION B)
N.T.S.

NOTE:

THESE CURBS SHALL BE CONSTRUCTED USING THE SAME REQUIREMENTS AND METHODS AS DESCRIBED IN CDOT'S CURB, GUTTERS AND SIDEWALKS STANDARD PLAN NO. M-609-1

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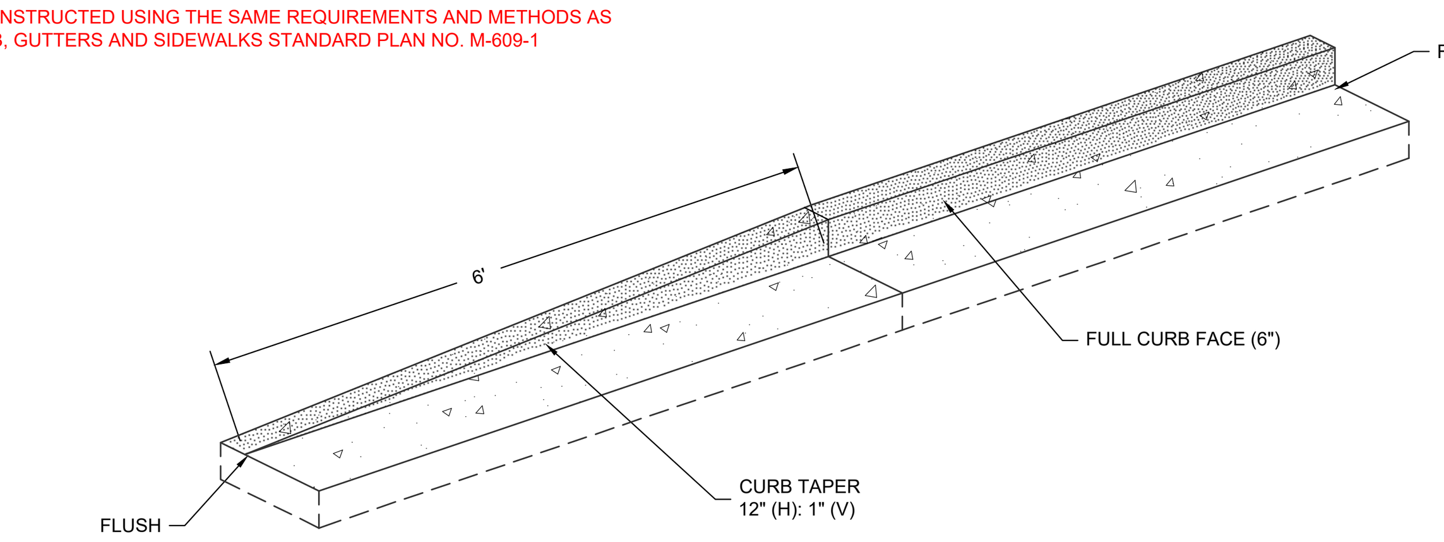
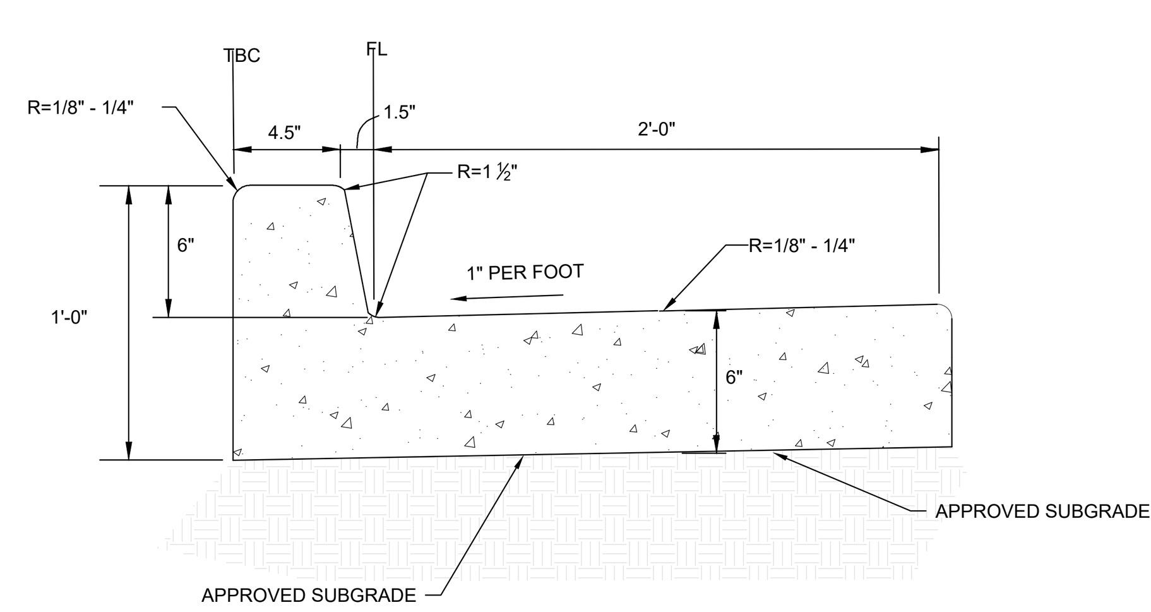


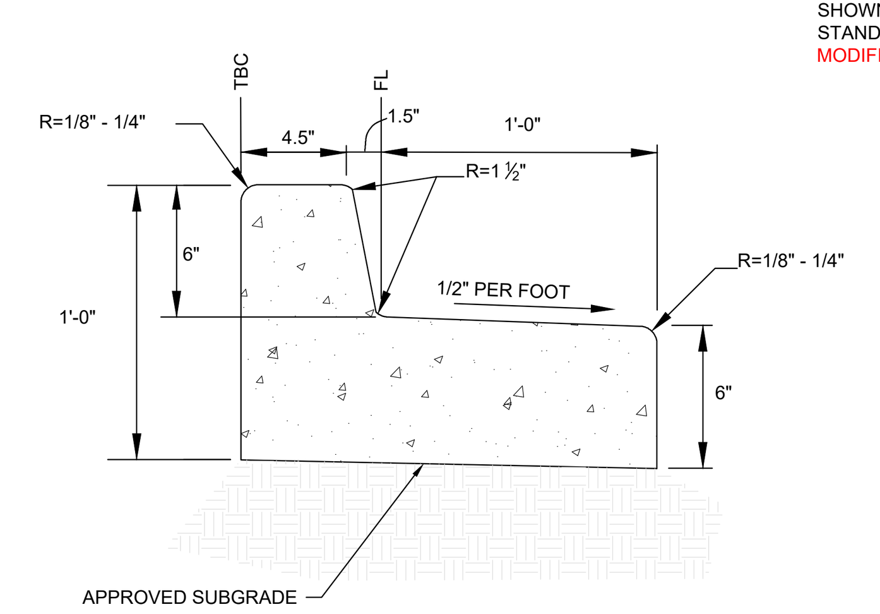
4.5 TAPERED CURB
N.T.S.

NOTE:

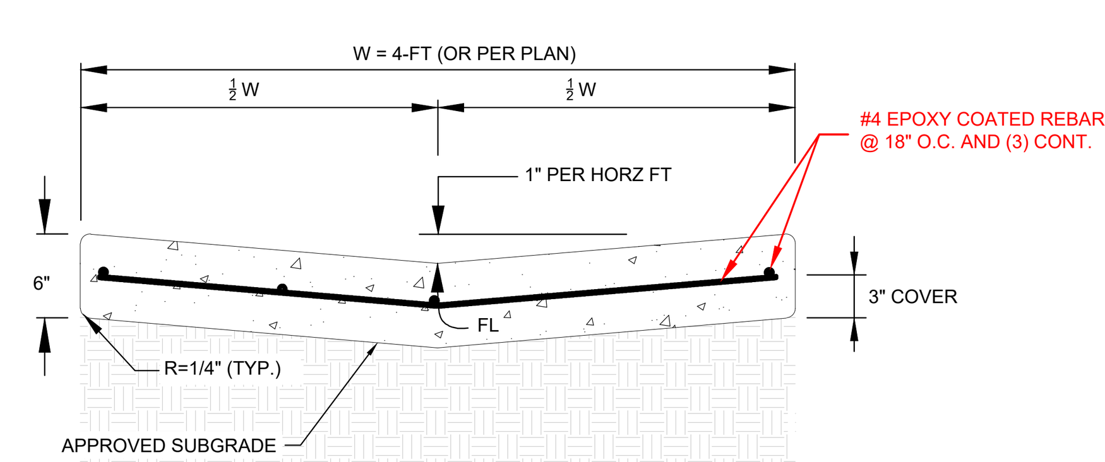
THESE DETAILS WERE REPLICATED FROM CDOT'S CURB, GUTTERS AND SIDEWALKS STANDARD PLAN NO. M-609-1 AND ARE SHOWN FOR CONVENIENCE. CONTRACTOR TO REFER TO THAT DOCUMENT AND THE CITY OF STEAMBOAT SPRINGS ENGINEERING STANDARDS FOR FULL REQUIREMENTS WHICH ARE HEREBY ADOPTED AND REFERENCED FOR THIS PROJECT. PROJECT SPECIFIC MODIFICATIONS ARE SHOWN IN RED.



4.1 CDOT CURB AND GUTTER TYPE-2 (SECTION IIB)
N.T.S.
A.K.A.: CATCH CURB AND GUTTER OR VERTICAL CURB



4.2 CDOT CURB AND GUTTER TYPE-2 (SECTION IB)
N.T.S.
A.K.A.: SPILL CURB AND GUTTER



4.3 CDOT GUTTER TYPE-2
N.T.S.
A.K.A.: VALLEY PAN

CALL UTILITY NOTIFICATION CENTER OF COLORADO

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CIVIL ENGINEERS | SURVEYORS
141 9th Street ~ P.O. Box 774943, Steamboat Springs, CO 80477
(970) 871-9494 ~ www.LANDMARK-CO.com

COLORADO LICENSED PROFESSIONAL ENGINEER 64423 3/13/26

NO.	DATE:	BY:	DESCRIPTION:

PROJECT: 2387-008
DATE: 3/13/2026
CONTACT: Micah Gibbons
EMAIL: micahg@landmark-co.com

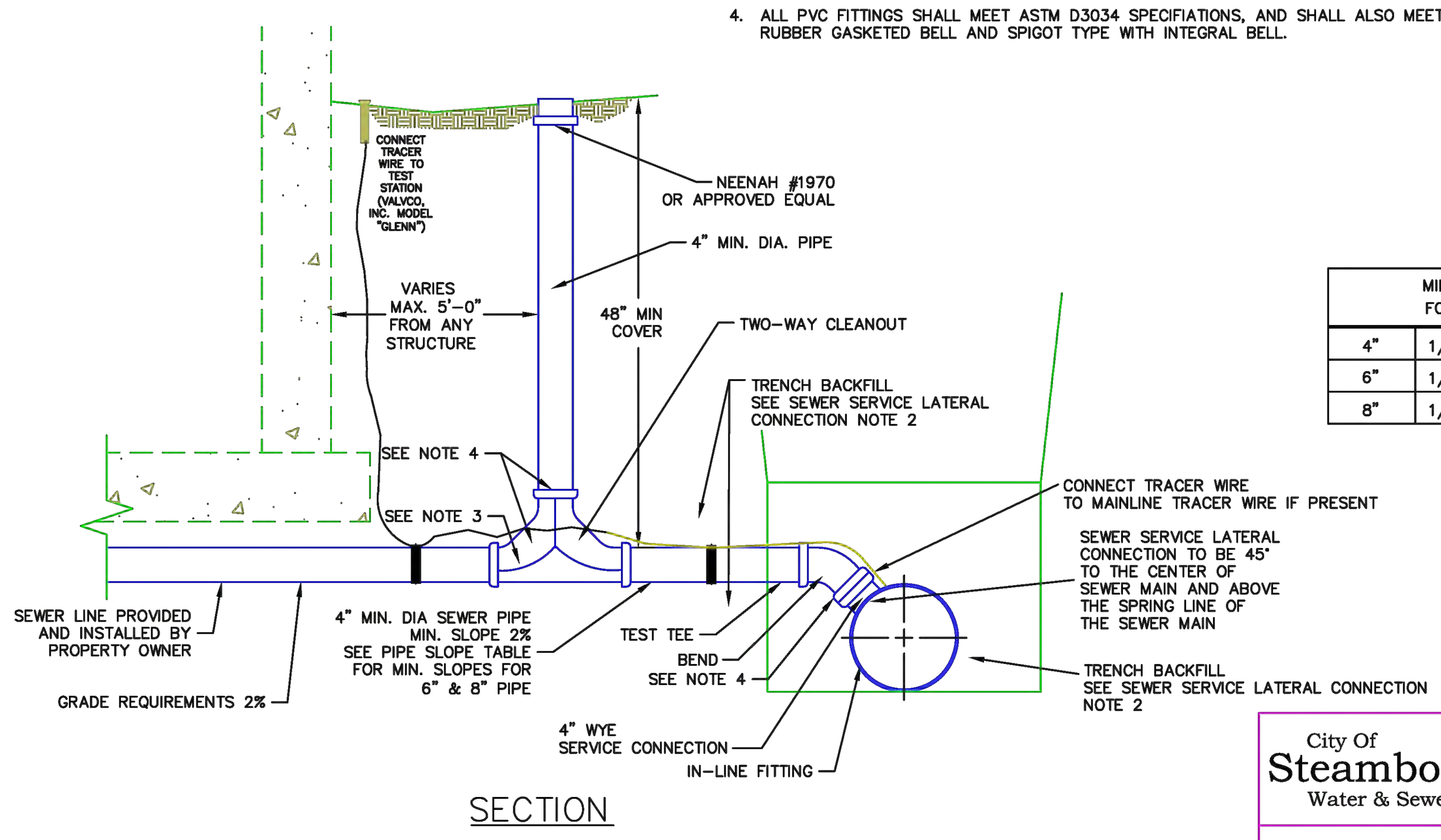
Steamboat Basecamp 2 Residential
Civil Details

SHEET
C.500

SEWER SERVICE LATERAL CONNECTION NOTES:

1. INSPECTION: PRIOR TO BACKFILL, SECURE A PASSING INSPECTION BY THE CITY UTILITY DEPARTMENT FOR ALL PIPE, FITTINGS, COUPLINGS, AND GRADE.
2. BACKFILL: INSTALL AND COMPACT ALL BACKFILL MATERIAL PER CITY OF STEAMBOAT SPRINGS STANDARD SPECIFICATIONS SECTION 24 AND AS SHOWN WITHIN THE TRENCH CROSS SECTION DETAIL.
3. RUBBER GASKETED BELL AND SPIGOT TYPE COUPLER FOR TRANSITION FROM SCHEDULE 40 PVC TO SDR35.
4. ALL PVC FITTINGS SHALL MEET ASTM D3034 SPECIFIATIONS, AND SHALL ALSO MEET ASTM D3212 SPECIFICATIONS FOR RUBBER GASKETED BELL AND SPIGOT TYPE WITH INTEGRAL BELL.

MINIMUM PIPE SLOPES FOR SEWER SERVICES		
4"	1/4" PER FOOT	2%
6"	1/8" PER FOOT	1%
8"	1/16" PER FOOT	0.5%



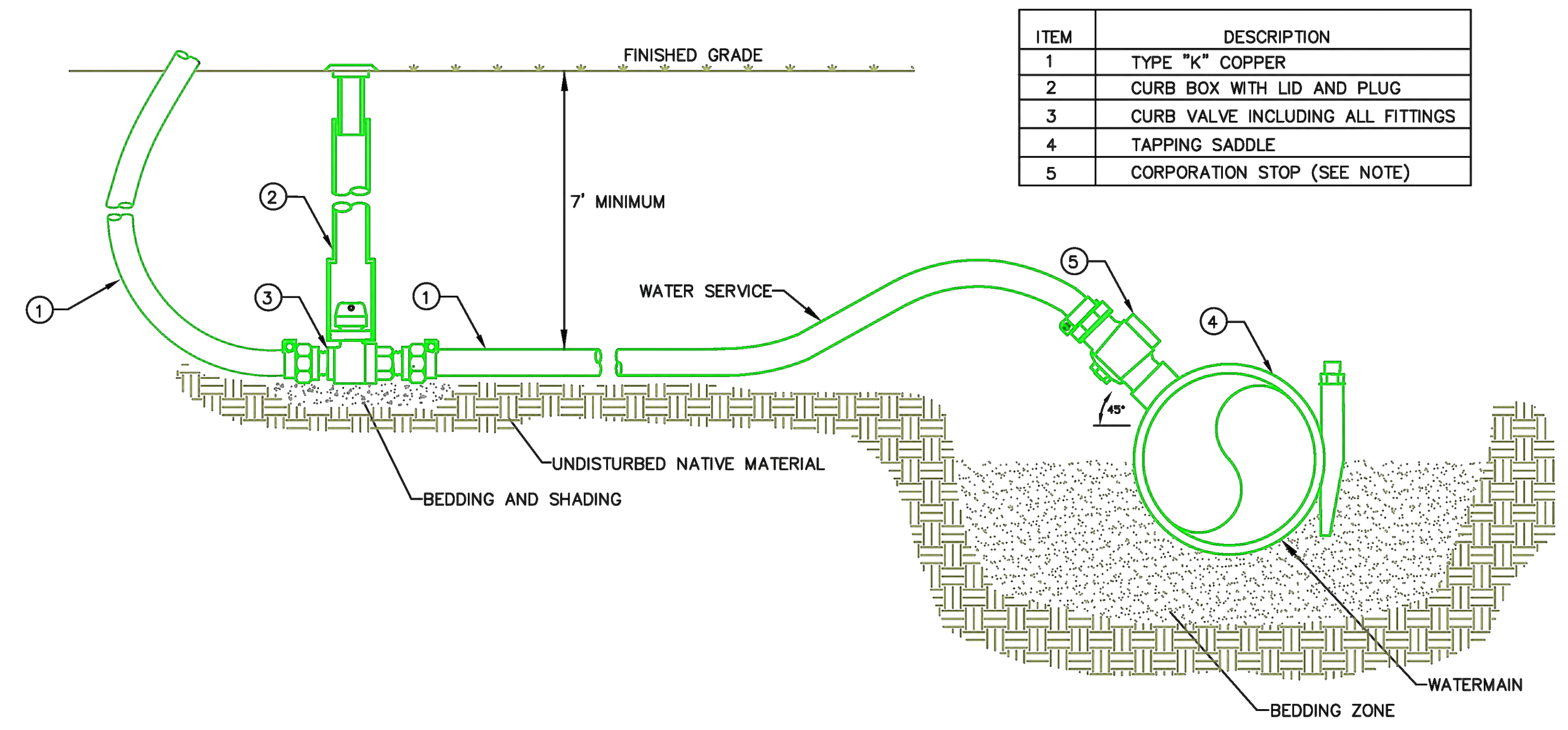
SECTION

SEWER SERVICE LATERAL CONNECTION DETAIL

NTS

City Of Steamboat Springs Water & Sewer
PO BOX 775088
STEAMBOAT SPRINGS, CO
(970) 879-2060 FAX (970) 879-8851
STANDARD DETAILS
Drawn by: ALG
Scale: N.T.S. Date: April 2023
Revision description:
SS-001 SANITARY SEWER

ITEM	DESCRIPTION
1	TYPE "K" COPPER
2	CURB BOX WITH LID AND PLUG
3	CURB VALVE INCLUDING ALL FITTINGS
4	TAPPING SADDLE
5	CORPORATION STOP (SEE NOTE)

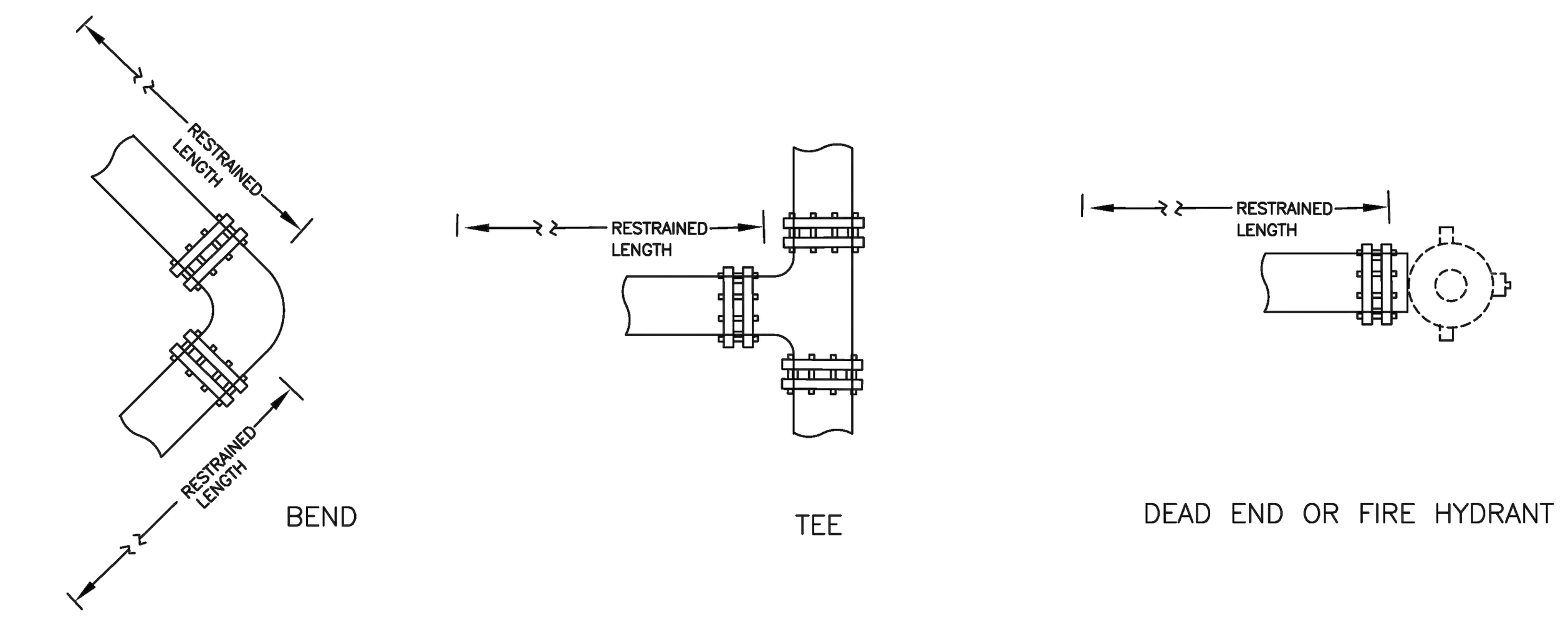


NOTE: CORPORATION STOP DEMARKS OWNERSHIP OF SERVICE LINE BETWEEN THE CITY AND PROPERTY OWNER.

CURB STOP DETAIL

NTS

City Of Steamboat Springs Water & Sewer
PO BOX 775088
STEAMBOAT SPRINGS, CO
(970) 879-2060 FAX (970) 879-8851
STANDARD DETAILS
Drawn by: JSF
Scale: N.T.S. Date: April 2023
Revision description:
W-007 WATER DISTRIBUTION



REQUIRED RESTRAINT LENGTH (FT)

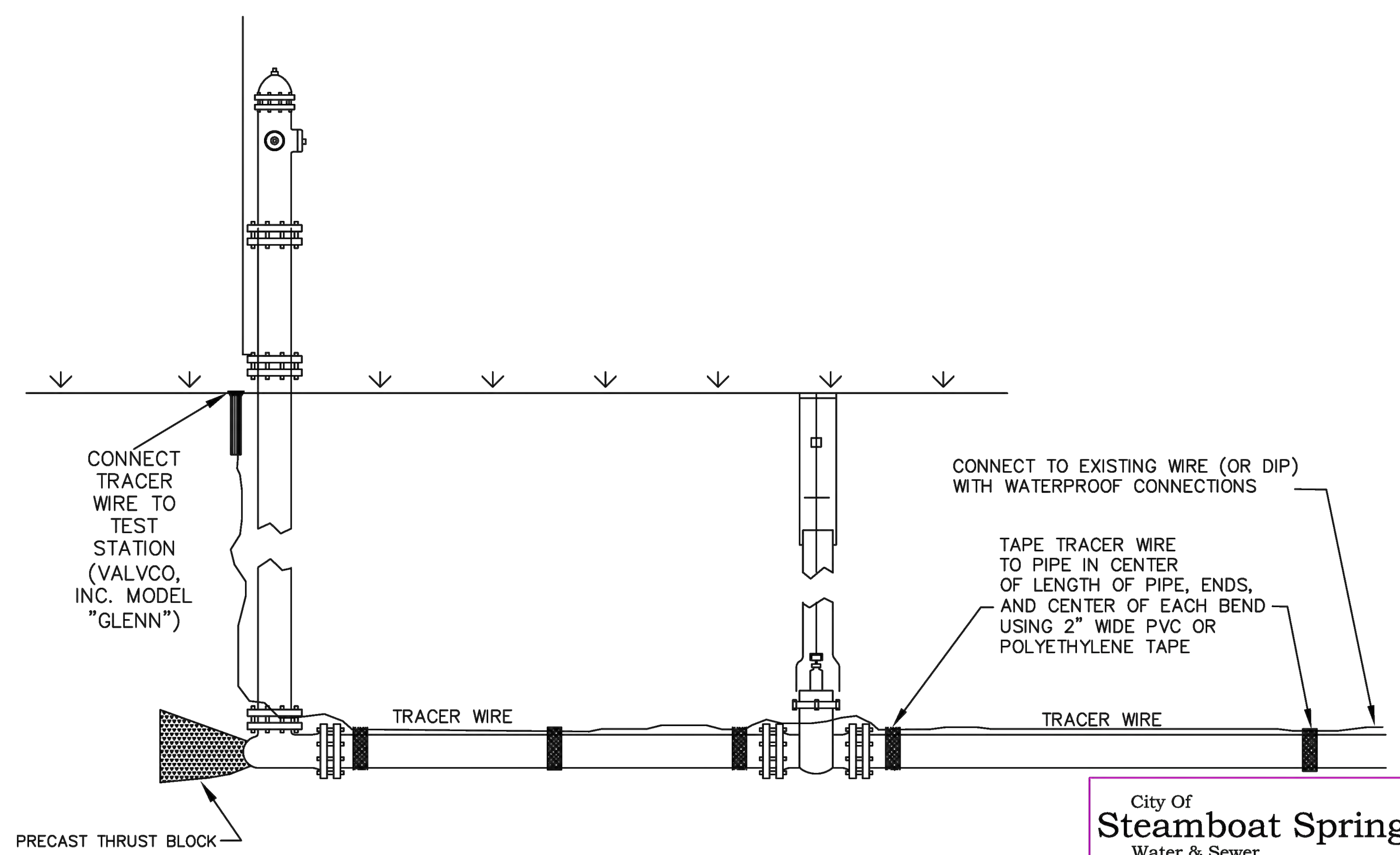
FITTING TYPE	MAIN SIZE (INCHES) 4"	6"	8"	10"	12"
90° BEND, BRANCH OF TEE, IN LINE VALVE, OR DEAD END	30'	45'	60'	73'	86'
45° BEND	20'	20'	20'	21'	25'
22 1/2° BEND	20'	20'	20'	20'	20'
11 1/4° BEND	20'	20'	20'	20'	20'

NOTE: THRUST BLOCKS ARE REQUIRED IN ADDITION TO JOINT RESTRAINT.

RESTRAINT DETAIL

NTS

City Of Steamboat Springs Water & Sewer
PO BOX 775088
STEAMBOAT SPRINGS, CO
(970) 879-2060 FAX (970) 879-8851
STANDARD DETAILS
Drawn by: GLB
Scale: N.T.S. Date: April 2023
Revision description:
D-003 GENERAL

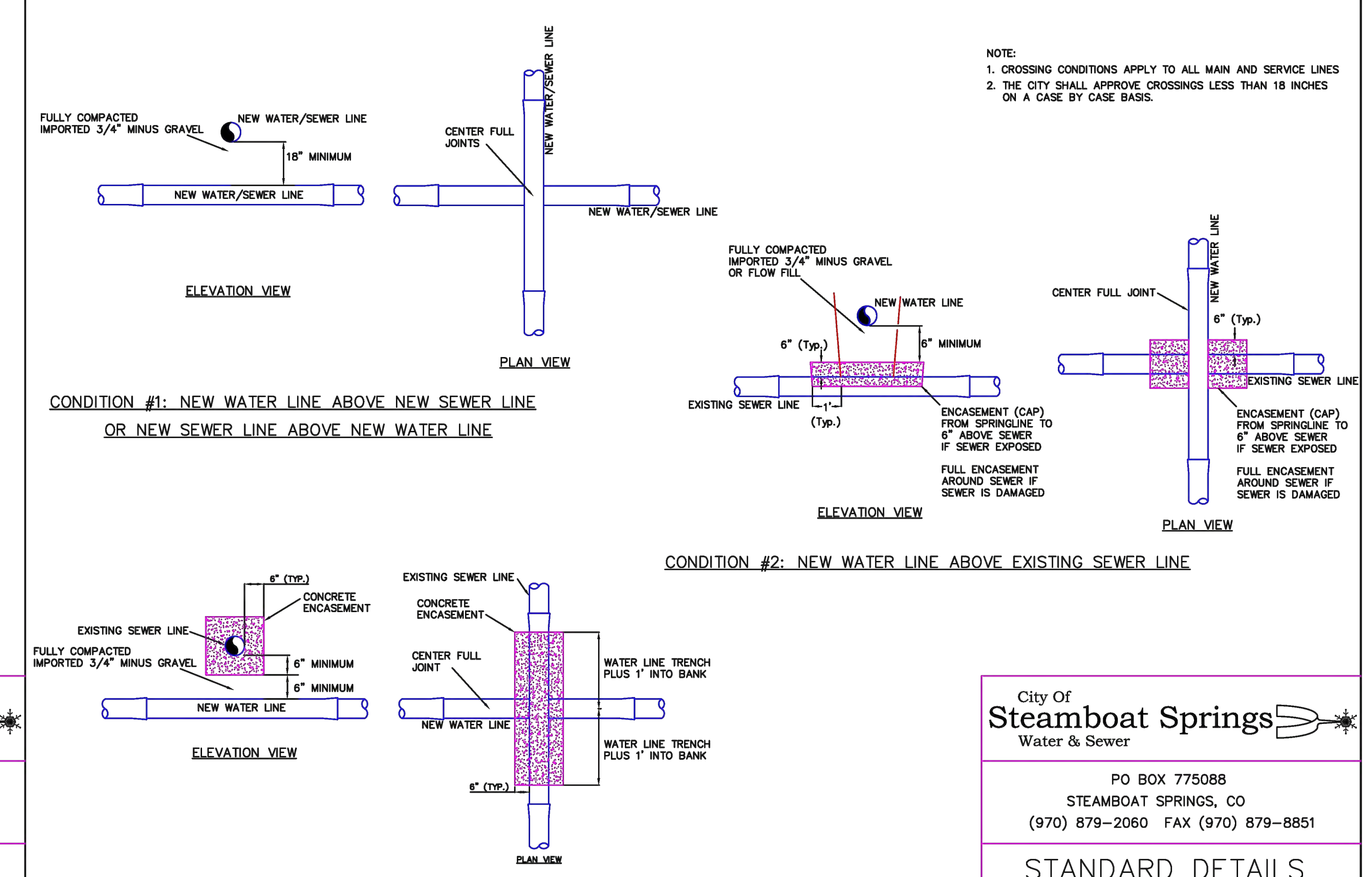


TRACER WIRE

NTS

City Of Steamboat Springs Water & Sewer
PO BOX 775088
STEAMBOAT SPRINGS, CO
(970) 879-2060 FAX (970) 879-8851
STANDARD DETAILS
Drawn by: GLB
Scale: N.T.S. Date: April 2023
Revision description: Update
D-002 GENERAL

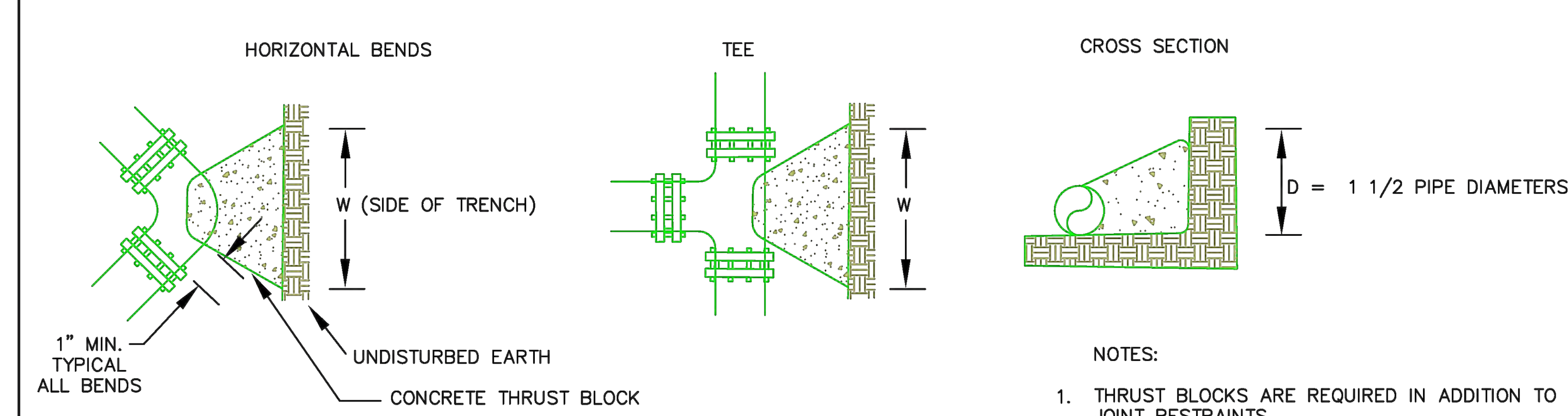
NOTE:
1. CROSSING CONDITIONS APPLY TO ALL MAIN AND SERVICE LINES
2. THE CITY SHALL APPROVE CROSSINGS LESS THAN 18 INCHES ON A CASE BY CASE BASIS.



WATER AND SEWER CROSSING CONDITIONS (SHEET 1 OF 2)

NTS

City Of Steamboat Springs Water & Sewer
PO BOX 775088
STEAMBOAT SPRINGS, CO
(970) 879-2060 FAX (970) 879-8851
STANDARD DETAILS
Drawn by: JS
Scale: N.T.S. Date: April 2023
Revision description: Update
SS-006 SANITARY SEWER



NOTES:

1. THRUST BLOCKS ARE REQUIRED IN ADDITION TO JOINT RESTRAINTS.
2. ALL THRUST BLOCKS SHALL BE PRE-CAST PRIOR TO PLACEMENT.
3. WRAP FITTINGS WITH POLYETHYLENE PRIOR TO PLACING THRUST BLOCKS SO THAT CONCRETE DOES NOT COME IN CONTACT WITH JOINT BOLTS.
4. THRUST BLOCKS SHALL BE INSTALLED SO THAT ALL JOINTS ARE ACCESSIBLE.
5. IF OVER-EXCAVATION OCCURS, THE CONTRACTOR SHALL PLACE COMPACTED CLASS 6 AGGREGATE BASE COURSE OR FLOW FILL BETWEEN THE THRUST BLOCK AND UNDISTURBED EARTH.

MINIMUM BEARING SURFACE (SF) FOR 200 PSI AND LESS

SIZE OF PIPE	BENDS 11-1/4°	22-1/2°	45°	90°	TEE OR DEAD END
4"	1.3	2.5	2.5	4	6.4
6"	1.3	2.5	5.0	9.0	6.4
8"	1.3	2.5	5.0	9.0	6.4
10"	1.9	3.8	7.4	13.7	9.7
12"	2.7	5.4	10.5	19.3	13.7

MINIMUM BEARING SURFACE (SF) FOR 201 TO 250 PSI

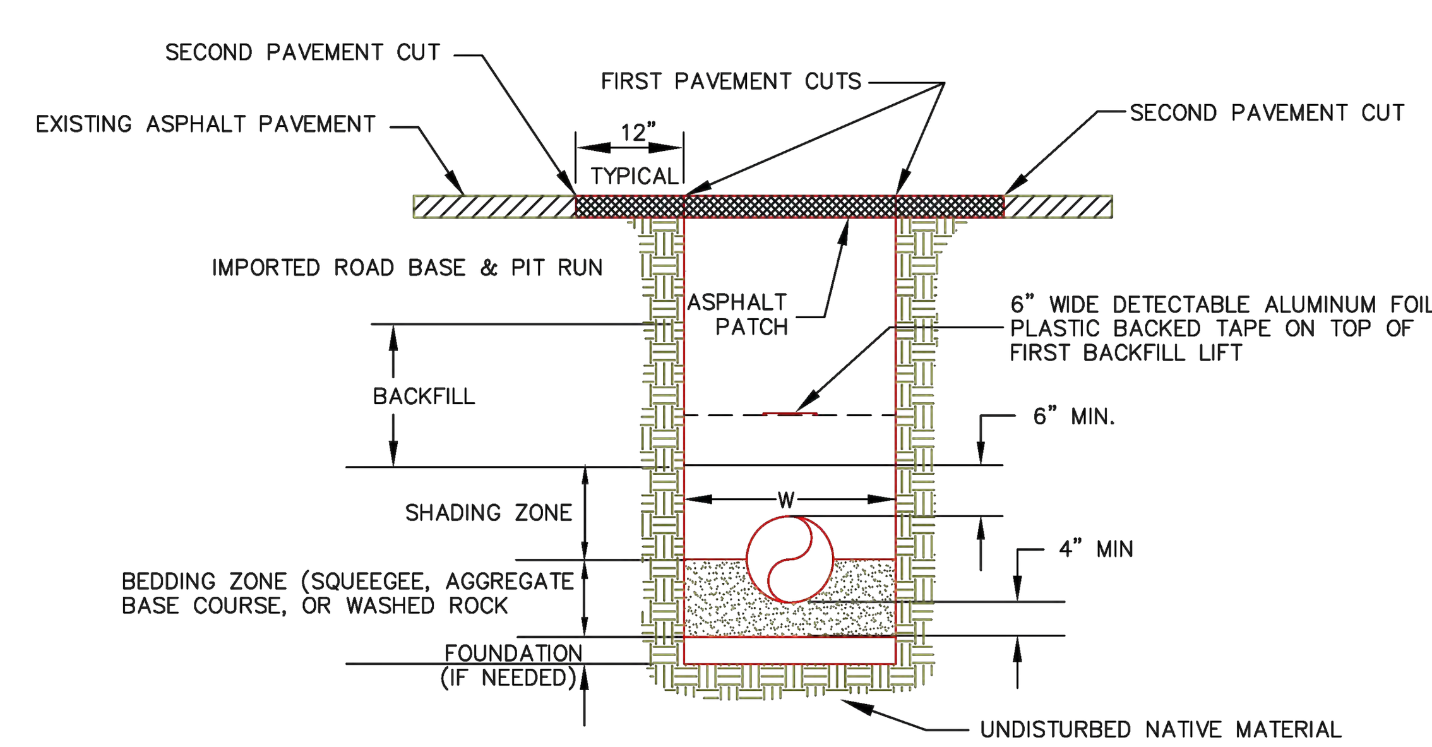
SIZE OF PIPE	BENDS 11-1/4°	22-1/2°	45°	90°	TEE OR DEAD END
4"	1.6	3.1	4	4	8.0
6"	1.6	3.1	6.2	11.4	8.0
8"	1.6	3.1	6.2	11.4	8.0
10"	2.4	4.7	9.25	17.1	12.0
12"	3.4	6.7	13.1	24.2	17.1

THRUST BLOCK BEARING AREA IN SQUARE FEET. (AREA = W X D)

THRUST BLOCK DETAIL

NTS

City Of Steamboat Springs Water & Sewer
PO BOX 775088
STEAMBOAT SPRINGS, CO
(970) 879-2060 FAX (970) 879-8851
STANDARD DETAILS
Drawn by: GLB
Scale: N.T.S. Date: April 2023
Revision description: Update
D-004 GENERAL



TRENCH CROSS SECTION

NTS

NOTES:

A GUIDE FOR DESIRABLE TRENCH WIDTH (W) AT THE TOP OF THE PIPE SHALL BE THE NOMINAL DIAMETER OF THE PIPE PLUS 12-INCHES ON EACH SIDE OF THE PIPE.

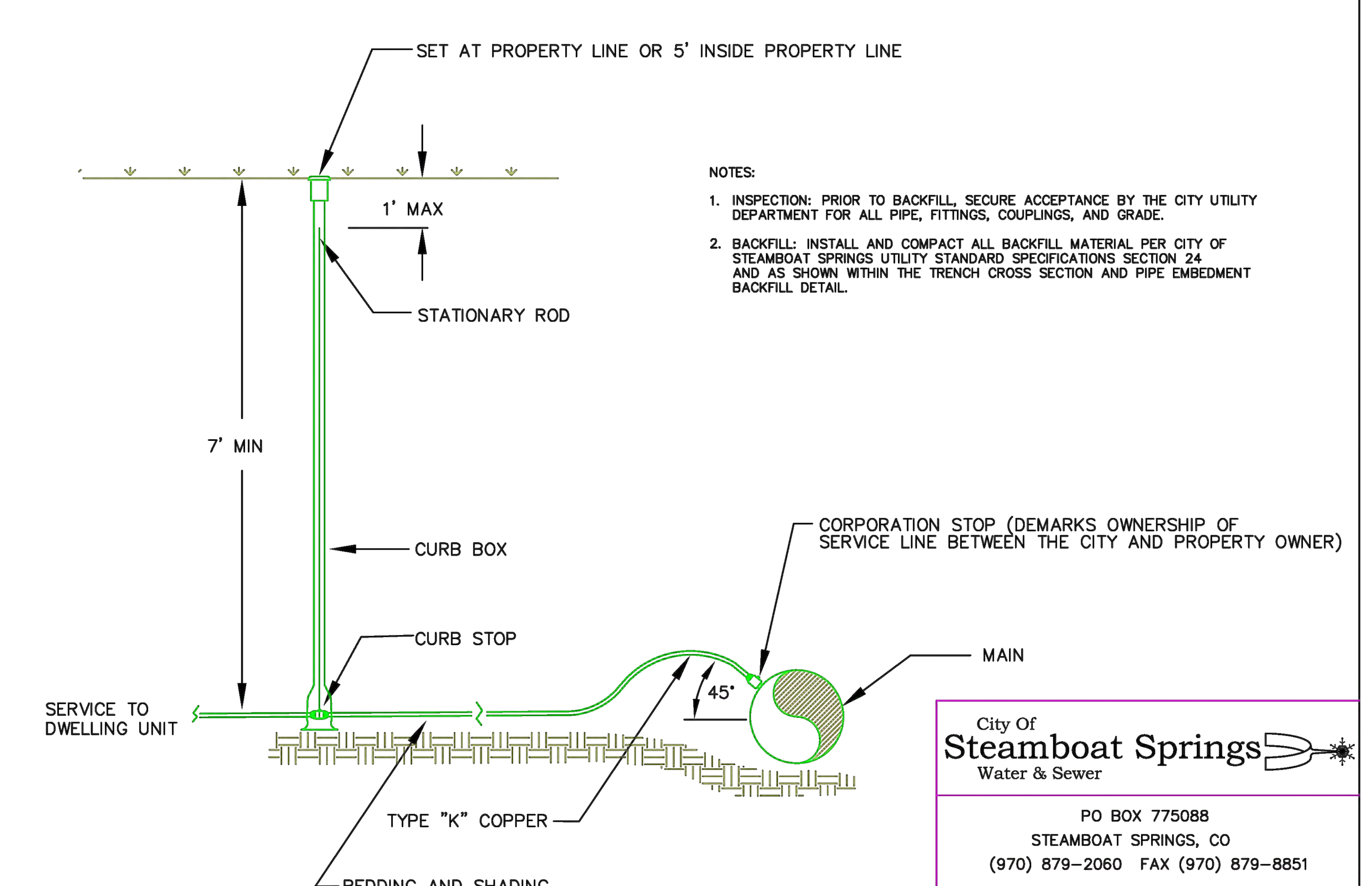
A SECOND PAVEMENT CUT SHALL BE REQUIRED PRIOR TO PLACING THE ASPHALT PATCH. REMOVE ALL IRREGULAR ASPHALT EDGES A MINIMUM OF 12-INCHES BEYOND ANY DAMAGED SURFACE TO A CLEAN VERTICAL EDGE. APPLY A BITUMINOUS TACK COAT PRIOR TO PLACING THE ASPHALT PATCH.

THE ASPHALT PATCH SHALL BE PLACED IN TWO 2-INCH LIFTS AND ROLLER COMPACTED TO MATCH THE ADJACENT ASPHALT EDGES.

SUB-BASE MATERIALS SHALL CONSIST OF 4-INCHES OF ROAD BASE ON 8-INCHES OF PIT-RUN. COMPACTION REQUIREMENTS SHALL EXCEED 95% MAXIMUM DRY DENSITY AS DETERMINED BY THE AASHTO T-180 TEST PROCEDURES.

THE CONTRACTOR MUST COMPLY WITH THE TRENCHING AND EXCAVATION REQUIREMENTS OF 29 CFR 1926.651 AND 1926.652 OR COMPARABLE OSHA-APPROVED STATE PLAN REQUIREMENTS.

City Of Steamboat Springs Water & Sewer
PO BOX 775088
STEAMBOAT SPRINGS, CO
(970) 879-2060 FAX (970) 879-8851
STANDARD DETAILS
Drawn by: JS
Scale: N.T.S. Date: April 2023
Revision description: Update
D-001 GENERAL



NOTES:

1. INSPECTION: PRIOR TO BACKFILL, SECURE ACCEPTANCE BY THE CITY UTILITY DEPARTMENT FOR ALL PIPE, FITTINGS, COUPLINGS, AND GRADE.
2. BACKFILL: INSTALL AND COMPACT ALL BACKFILL MATERIAL PER CITY OF STEAMBOAT SPRINGS UTILITY STANDARD SPECIFICATIONS SECTION 24 AND AS SHOWN WITHIN THE TRENCH CROSS SECTION AND PIPE EMBEDMENT BACKFILL DETAIL.

WATER SERVICE LINE DETAIL

NTS

City Of Steamboat Springs Water & Sewer
PO BOX 775088
STEAMBOAT SPRINGS, CO
(970) 879-2060 FAX (970) 879-8851
STANDARD DETAILS
Drawn by: GLB
Scale: N.T.S. Date: April 2023
Revision description: Update
W-001 WATER DISTRIBUTION

CALL UTILITY NOTIFICATION CENTER OF COLORADO

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(970) 871-9494 - www.LANDMARK-CO.com

COLORADO LICENSED PROFESSIONAL ENGINEER 64423 3/13/26

NO.	DATE:	BY:	DESCRIPTION:

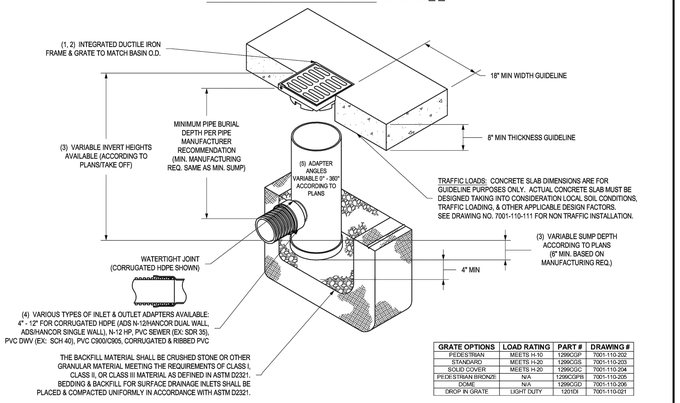
PROJECT: 2387-008
DATE: 3/13/2026
CONTACT: Micah Gibbons
EMAIL: micahg@landmark-co.com

Steamboat Basecamp 2 Residential

Water And Sewer Details

SHEET
C.510

NYLOPLAST 12" DRAIN BASIN: 2812AG _ _ X



GRATE OPTIONS	LOAD RATING	PART #	DRAWING #
PEDESTRIAN	MEETS H-10	1296CGP	7001-110-202
STANDARD	MEETS H-20	1296CGS	7001-110-203
SOLID COVER	MEETS H-20	1296CGC	7001-110-204
PEDESTRIAN BRONZE	N/A	1296CGPB	7001-110-205
DOME	N/A	1296CGD	7001-110-206
DROP IN GRATE	LIGHT DUTY	1201DI	7001-110-021

1 - GRATES/SOLID COVER SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05, WITH THE EXCEPTION OF THE BRONZE GRATE.
2 - FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05
3 - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 7001-110-065
4 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL), N-12 HP, & PVC SEWER.
5 - ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°, TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012.

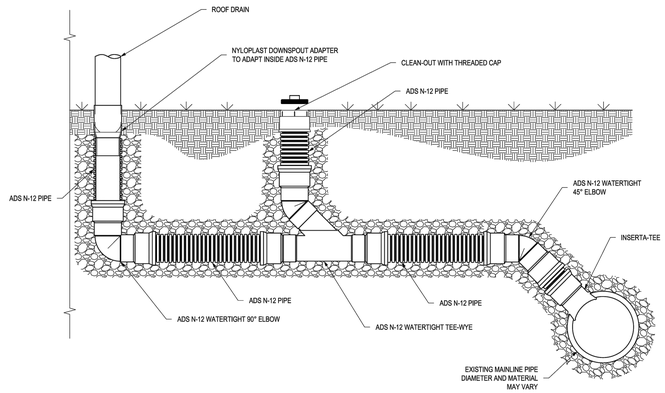
DRAWN BY	EBC	MATERIAL	
DATE	03-29-06		
REVISED BY	NMH	PROJECT NO./NAME	
DATE	03-11-16		
DWG SIZE	A	SCALE 1:20	SHEET 1 OF 1

Nyloplast — 3130 VERONA AVE BUFORD, GA 30518 PHN (770) 932-3443 FAX (770) 932-2490 www.nyloplast-us.com

TITLE: 12 IN DRAIN BASIN QUICK SPEC INSTALLATION DETAIL

DWG NO. 7001-110-189 REV E

NYLOPLAST DOWNSPOUT ADAPTER WITH CLEANOUT AND INSERTA-TEE



DRAWN BY	NMH	MATERIAL	
DATE	2-14-19		
APPD BY	NMH	PROJECT NO./NAME	
DATE	2-14-19		
DWG SIZE	A	SCALE 1:16	SHEET 1 OF 1

Nyloplast — 3130 VERONA AVE BUFORD, GA 30518 PHN (770) 932-3443 FAX (770) 932-2490 www.nyloplast-us.com

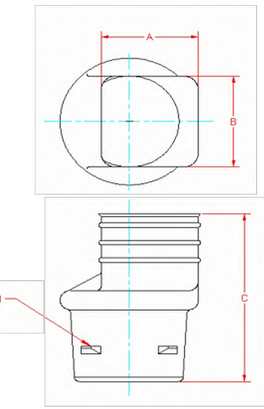
TITLE: NYLOPLAST DOWNSPOUT ADAPTER WITH CLEANOUT AND INSERTA-TEE TYING INTO MAINLINE AT 45°

DWG NO. 6000-110-234 REV A

DOWNSPOUT ADAPTERS

PART #	PIPE SIZE	A	B	C
0364AA	3 in (76 mm)	2.5 in (64 mm)	3.3 in (83 mm)	4.8 in (121 mm)
0464AA	4 in (102 mm)	2.5 in (64 mm)	3.3 in (83 mm)	4.8 in (121 mm)
0465AA	4 in (102 mm)	3.3 in (83 mm)	4.5 in (114 mm)	5.0 in (127 mm)
0466AA	4 in (102 mm)	2.6 in (65 mm)	2.6 in (65 mm)	4.6 in (118 mm)
0664AA	6 in (152 mm)	3.6 in (92 mm)	5.6 in (143 mm)	6.4 in (163 mm)
0664AC*	6 in (152 mm)	3.6 in (92 mm)	5.6 in (143 mm)	6.4 in (163 mm)

* Part 0664AC is PVC



NOTE: ALL DIMENSIONS ARE NOMINAL

ADS ADVANCED DRAINAGE SYSTEMS, INC.

DRAWING #:	6000
DRAWN BY:	JCB 03.20.07
APPROVED BY:	JCB 06.28.07
REVISIONS:	NJP 06.20.07

NON TRAFFIC INSTALLATION

DRAIN BASIN

INLINE DRAIN

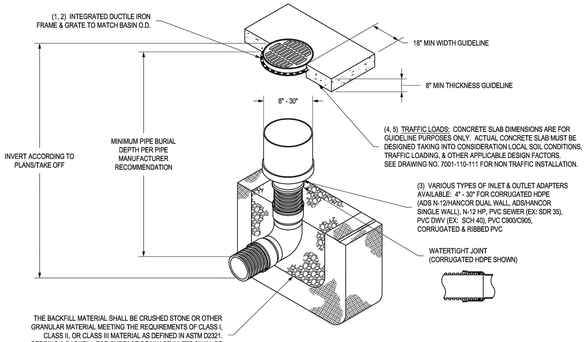
DRAWN BY	CJA	MATERIAL	
DATE	9-30-09		
REVISED BY	NMH	PROJECT NO./NAME	
DATE	03-11-16		
DWG SIZE	A	SCALE 1:25	SHEET 1 OF 1

ADS Nyloplast — 3130 VERONA AVE BUFORD, GA 30518 PHN (770) 932-3443 FAX (770) 932-2490 www.nyloplast-us.com

TITLE: DRAIN BASIN & INLINE DRAIN NON TRAFFIC INSTALLATION

DWG NO. 7001-110-111 REV F

NYLOPLAST INLINE DRAIN WITH STANDARD GRATE



1 - 8" - 30" STANDARD GRATES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
2 - 12" - 30" FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05. 8" & 10" STANDARD GRATES FIT DIRECTLY ONTO INLINE DRAINS SEE DRAWING NO. 7003-110-000 & 7003-110-001.
3 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL), N-12 HP, & PVC SEWER (4" - 24").
4 - 12" - 30" STANDARD GRATES SHALL MEET H-20 LOAD RATING.
5 - 8" & 10" STANDARD GRATES ARE RATED FOR LIGHT DUTY APPLICATIONS ONLY; NO CONCRETE COLLAR NEEDED FOR LIGHT DUTY RATING.

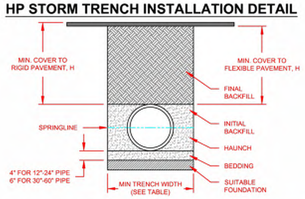
DRAWN BY	EBC	MATERIAL	
DATE	1-23-06		
REVISED BY	NMH	PROJECT NO./NAME	
DATE	03-15-16		
DWG SIZE	A	SCALE 1:40	SHEET 1 OF 1

ADS Nyloplast — 3130 VERONA AVE BUFORD, GA 30518 PHN (770) 932-3443 FAX (770) 932-2490 www.nyloplast-us.com

TITLE: INLINE DRAIN WITH STANDARD GRATE QUICK SPEC INSTALLATION DETAIL

DWG NO. 7003-110-022 REV J

HP STORM TRENCH INSTALLATION DETAIL



NOTES:

1. ALL PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS". LATEST ADDITION, WITH THE EXCEPTION THAT THE INITIAL BACKFILL MAY EXTEND TO THE CROWN OF THE PIPE. SOIL CLASSIFICATIONS ARE PER THE LATEST VERSION OF ASTM D2321. CLASS IVB MATERIALS (MH, CH) AS DEFINED IN PREVIOUS VERSIONS OF ASTM D2321 ARE NOT APPROPRIATE BACKFILL MATERIALS.
2. MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL, WHEN REQUIRED.
3. FOUNDATION: WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER, AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL.
4. BEDDING: SUITABLE MATERIAL SHALL BE CLASS I, II, III, OR IV. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. COMPACTION SHALL BE SPECIFIED BY THE ENGINEER IN ACCORDANCE WITH TABLE 3 FOR THE APPLICABLE FILL HEIGHTS LISTED. UNLESS OTHERWISE NOTED BY THE ENGINEER, MINIMUM BEDDING THICKNESS SHALL BE 4" (100mm) FOR 12"-24" (300mm-600mm) DIAMETER PIPE; 6" (150mm) FOR 30"-60" (750mm-1500mm) DIAMETER PIPE. THE MIDDLE 1/3 BENEATH THE PIPE INVERT SHALL BE LOOSELY PLACED. PLEASE NOTE, CLASS IV MATERIAL HAS LIMITED APPLICATION AND CAN BE DIFFICULT TO PLACE AND COMPACT; USE ONLY WITH THE APPROVAL OF A SOIL EXPERT.
5. INITIAL BACKFILL: SUITABLE MATERIAL SHALL BE CLASS I, II, III, OR IV IN THE PIPE ZONE EXTENDING TO THE CROWN OF THE PIPE. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. MATERIAL SHALL BE INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION. COMPACTION SHALL BE SPECIFIED BY THE ENGINEER IN ACCORDANCE WITH TABLE 3 FOR THE APPLICABLE FILL HEIGHTS LISTED. PLEASE NOTE, CLASS IV MATERIAL HAS LIMITED APPLICATION AND CAN BE DIFFICULT TO PLACE AND COMPACT; USE ONLY WITH THE APPROVAL OF A SOIL EXPERT.
6. MINIMUM COVER: MINIMUM COVER, H, IN NON-TRAFFIC APPLICATIONS (GRASS OR LANDSCAPE AREAS) IS 12" (300mm) FROM THE TOP OF PIPE TO FINISHED SURFACE. ADDITIONAL COVER MAY BE REQUIRED TO PREVENT FLOTATION. FOR TRAFFIC APPLICATIONS, CLASS I OR II MATERIAL COMPACTED TO 90% SPD AND CLASS III COMPACTED TO 95% SPD IS REQUIRED. FOR TRAFFIC APPLICATIONS, MINIMUM COVER, H, IS 12" (300mm) UP TO 48" (1200mm) DIAMETER PIPE AND 24" (600mm) OF COVER FOR 60" (1500mm) DIAMETER PIPE, MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TO TOP OF RIGID PAVEMENT.
7. FOR ADDITIONAL INFORMATION SEE TECHNICAL NOTE 2.04.

TABLE 1, RECOMMENDED MINIMUM TRENCH WIDTHS

PIPE DIAM.	MIN. TRENCH WIDTH
12" (300mm)	30" (762mm)
15" (375mm)	34" (864mm)
18" (450mm)	39" (991mm)
24" (600mm)	48" (1219mm)
30" (750mm)	64" (1626mm)
36" (1050mm)	72" (1829mm)
48" (1200mm)	80" (2032mm)
60" (1500mm)	96" (2438mm)

TABLE 2, MINIMUM RECOMMENDED COVER BASED ON VEHICLE LOADING CONDITIONS

PIPE DIAM.	SURFACE LIVE LOADING CONDITION H-25	HEAVY CONSTRUCTION (75T AXLE LOAD)*
12" - 48" (300mm - 1200mm)	12" (305mm)	48" (1219mm)
60" (1500mm)	24" (610mm)	60" (1524mm)

*VEHICLES IN EXCESS OF 75T MAY REQUIRE ADDITIONAL COVER

TABLE 3, MAXIMUM COVER FOR ADS HP STORM PIPE, ft

	CLASS I	CLASS II		CLASS III		CLASS IV
PIPE DIA	COMPACTED	95%	90%	85%	95%	90%	95%
12" (300mm)	41 (12.5m)	28 (8.5m)	21 (6.4m)	16 (4.9m)	20 (6.1m)	16 (4.9m)	16 (4.9m)
15" (375mm)	42 (12.8m)	29 (8.8m)	21 (6.4m)	16 (4.9m)	21 (6.4m)	16 (4.9m)	16 (4.9m)
18" (450mm)	44 (13.4m)	30 (9.1m)	21 (6.4m)	16 (4.9m)	22 (6.7m)	17 (5.2m)	16 (4.9m)
24" (600mm)	37 (11.3m)	26 (7.9m)	18 (5.5m)	14 (4.3m)	19 (5.8m)	14 (4.3m)	14 (4.3m)
30" (750mm)	39 (11.9m)	27 (8.2m)	19 (5.8m)	14 (4.3m)	19 (5.8m)	15 (4.6m)	14 (4.3m)
36" (900mm)	28 (8.5m)	20 (6.1m)	14 (4.3m)	10 (3.0m)	14 (4.3m)	11 (3.4m)	10 (3.0m)
42" (1050mm)	30 (9.1m)	21 (6.4m)	14 (4.3m)	10 (3.0m)	15 (4.6m)	11 (3.4m)	10 (3.0m)
48" (1200mm)	29 (8.8m)	20 (6.1m)	14 (4.3m)	9 (2.7m)	14 (4.3m)	10 (3.0m)	10 (3.0m)
60" (1500mm)	29 (8.8m)	20 (6.1m)	14 (4.3m)	9 (2.7m)	14 (4.3m)	10 (3.0m)	9 (2.7m)

FILL HEIGHT TABLE GENERATED USING AASHTO SECTION 12, LOAD RESISTANCE FACTOR DESIGN (LRFD) PROCEDURE WITH THE FOLLOWING ASSUMPTIONS:
NO HYDROSTATIC PRESSURE
UNIT WEIGHT OF SOIL (γs) = 120 PCF

REV	DESCRIPTION	BY	DATE
6	REV. MAXIMUM COVER HEIGHTS	RWD	01/11/17
		MMD/DYT	CHK'D

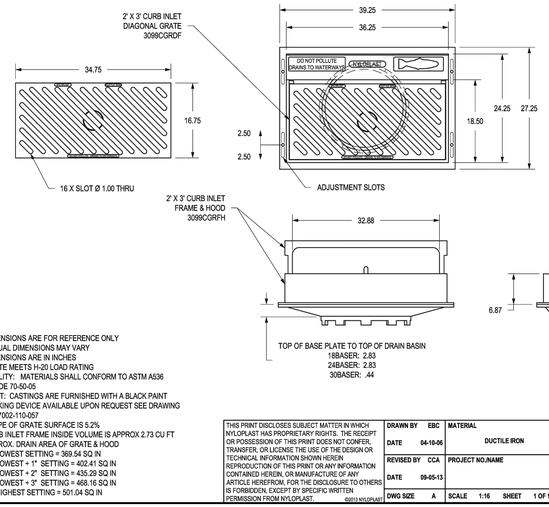
TRENCH INSTALLATION DETAIL (HP STORM) — DRAWING NUMBER: STD-101D

ADS ADVANCED DRAINAGE SYSTEMS, INC. — 4640 TRUEMAN BLVD HILLIARD, OHIO 43026

DRAWN BY:	JAS
DATE:	01/29/09
SCALE:	NTS
SHEET:	1 OF 1

3099CGRDF & 3099CGRFH

APPROX. GRATE DRAIN AREA = 232.87 SQ IN
*APPROX. WEIGHT WITH FRAME & HOOD = 344.00 LBS



DIMENSIONS ARE FOR REFERENCE ONLY
ACTUAL DIMENSIONS MAY VARY
DIMENSIONS ARE IN INCHES
GRATE MEETS H-20 LOAD RATING
QUALITY: MATERIALS SHALL CONFORM TO ASTM A536 GRADE 70-50-05
PAINT: CASTINGS ARE FURNISHED WITH A BLACK PAINT
LOCKING DEVICE AVAILABLE UPON REQUEST SEE DRAWING NO. 7002-110-057
SLOPE OF GRATE SURFACE IS 5.2%
CURB INLET FRAME INSIDE VOLUME IS APPROX 2.73 CU FT
APPROX. DRAIN AREA OF GRATE & HOOD
LOWEST SETTING = 369.54 SQ IN
LOWEST + 1" SETTING = 402.41 SQ IN
LOWEST + 2" SETTING = 435.29 SQ IN
LOWEST + 3" SETTING = 468.16 SQ IN
HIGHEST SETTING = 501.04 SQ IN

DRAWN BY	EBC	MATERIAL	
DATE	04-10-06		
REVISED BY	CCA	PROJECT NO./NAME	
DATE	09-05-13		
DWG SIZE	A	SCALE 1:16	SHEET 1 OF 1

ADS Nyloplast — 3130 VERONA AVE BUFORD, GA 30518 PHN (770) 932-3443 FAX (770) 932-2490 www.nyloplast-us.com

TITLE: 2 FT X 3 FT CURB INLET DIAGONAL GRATE ASSEMBLY

DWG NO. 7002-110-046 REV D

3099CGSQ & 3099CGSQFH

APPROX. GRATE DRAIN AREA = 146.18 SQ IN
*APPROX. WEIGHT WITH FRAME & HOOD = 287.00 LBS

DIMENSIONS ARE FOR REFERENCE ONLY
ACTUAL DIMENSIONS MAY VARY
DIMENSIONS ARE IN INCHES
GRATE MEETS H-20 LOAD RATING
QUALITY: MATERIALS SHALL CONFORM TO ASTM A536 GRADE 70-50-05
PAINT: CASTINGS ARE FURNISHED WITH A BLACK PAINT
LOCKING DEVICE AVAILABLE UPON REQUEST SEE DRAWING NO. 7002-110-053
SLOPE OF GRATE SURFACE IS 5.2%
CURB INLET FRAME INSIDE VOLUME IS APPROX 1.76 CU FT
APPROX. DRAIN AREA OF GRATE & HOOD
LOWEST SETTING = 227.37 SQ IN
LOWEST + 1" SETTING = 248.25 SQ IN
LOWEST + 2" SETTING = 269.12 SQ IN
LOWEST + 3" SETTING = 290.00 SQ IN
HIGHEST SETTING = 310.87 SQ IN

DRAWN BY	EBC	MATERIAL	
DATE	03-28-06	DUCTILE IRON	
REVISED BY	CCA	PROJECT NO./NAME	
DATE	09-05-13		
DWG SIZE	A	SCALE 1:16	SHEET 1 OF 1

ADS Nyloplast — 3130 VERONA AVE BUFORD, GA 30518 PHN (770) 932-3443 FAX (770) 932-2490 www.nyloplast-us.com

TITLE: 2 FT X 2 FT CURB INLET STANDARD GRATE ASSEMBLY

DWG NO. 7002-110-042 REV D

SECTION 2723

ENGINEERED SURFACE DRAINAGE PRODUCTS

GENERAL

PVC SURFACE DRAINAGE INLETS SHALL BE OF THE CURB INLET STRUCTURE TYPE AS INDICATED ON THE CONTRACT DRAWINGS AND REFERENCED WITHIN THE CONTRACT SPECIFICATIONS. THE **DUCTILE IRON FRAME, GRATE AND HOOD** FOR EACH OF THESE STRUCTURES ARE TO BE CONSIDERED AN INTEGRAL PART OF THE SURFACE DRAINAGE INLET AND SHALL BE FURNISHED BY THE SAME MANUFACTURER. THE CURB INLET STRUCTURE SHALL BE AS MANUFACTURED BY NYLOPLAST A DIVISION OF ADVANCED DRAINAGE SYSTEMS, INC. OR PRIOR APPROVED EQUAL.

MATERIALS

THE CURB INLET STRUCTURE REQUIRED FOR THIS CONTRACT SHALL BE MANUFACTURED FROM PVC PIPE STOCK, UTILIZING A THERMO-MOLDING PROCESS TO REFORM THE PIPE STOCK TO THE SPECIFIED CONFIGURATION. THE DRAINAGE PIPE CONNECTION STUBS SHALL BE MANUFACTURED FORM PVC PIPE STOCK AND FORMED TO PROVIDE A WATERTIGHT CONNECTION WITH THE SPECIFIED PIPE SYSTEM. THIS JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR JOINTS FOR DRAIN AND SEWER PLASTIC PIPE USING FLEXIBLE ELASTOMERIC SEALS. THE FLEXIBLE ELASTOMERIC SEALS SHALL CONFORM TO ASTM F477. THE PIPE BELL SPIGOT SHALL BE JOINED TO THE MAIN BODY OF THE STRUCTURE. THE RAW MATERIAL USED TO MANUFACTURE THE PIPE STOCK THAT IS USED TO MANUFACTURE THE MAIN BODY AND PIPE STUBS OF THE SURFACE DRAINAGE INLETS SHALL CONFORM TO ASTM D1784 CELL CLASS 12454.

THE GRATE, FRAME AND HOOD FOR ALL CURB INLET STRUCTURES SHALL BE DUCTILE IRON AND SHALL BE MADE SPECIFICALLY FOR EACH SO AS TO PROVIDE A ROUND BOTTOM FLANGE THAT CLOSELY MATCHES THE DIAMETER OF THE PVC STRUCTURE BODY. THE GRATE, FRAME AND HOOD SHALL BE CAPABLE OF SUPPORTING H-20 WHEEL LOADING FOR TRAFFIC AREAS. THE HOOD SECTION WILL HAVE A SOLID BACK AND BE ADJUSTABLE BY USE OF THREE (3) LOCKING HEX HEAD BOLTS. THE METAL USED IN THE MANUFACTURE OF THE CASTINGS SHALL CONFORM TO ASTM A536 GRADE 70-50-05 FOR DUCTILE IRON.

INSTALLATION

THE SPECIFIED PVC SURFACE DRAINAGE INLET SHALL BE INSTALLED USING CONVENTIONAL FLEXIBLE PIPE BACKFILL MATERIALS AND PROCEDURES. THE BACKFILL MATERIAL SHALL BE CRUSHED STONE OR OTHER GRANULAR MATERIAL MEETING THE REQUIREMENTS OF CLASS 1, CLASS 2, OR CLASS 3 MATERIAL AS DEFINED IN ASTM D2321. BEDDING AND BACKFILL FOR THE CURB INLET STRUCTURE SHALL BE PLACED AND COMPACTED UNIFORMLY IN ACCORDANCE WITH ASTM D2321. THE CURB INLET STRUCTURE BODY WILL BE CUT AT THE TIME OF THE FINAL GRADE. NO BRICK, STONE OR CONCRETE BLOCK WILL BE REQUIRED TO SET THE GRATE TO THE FINAL GRADE HEIGHT. FOR H-20 LOAD RATED INSTALLATIONS, A CONCRETE RING WILL BE POURED UNDER THE FRAME, GRATE, AND HOOD. THE CONCRETE SLAB MUST BE DESIGNED TAKING INTO CONSIDERATION LOCAL SOIL CONDITIONS, TRAFFIC LOADING, AND OTHER APPLICABLE DESIGN FACTORS. FOR OTHER INSTALLATION CONSIDERATIONS SUCH AS MIGRATION OF FINES, GROUND WATER, AND SOFT FOUNDATIONS REFER TO ASTM D2321 GUIDELINES.

CALL