EL PASO COUNTY, COLORADO
GRANDVIEW RESERVE DISTRICT
WTP WELL WATER COLLECTION

D.R. HORTON
COLORADO
2024

L O C A T I O N M A P

S H E E T I N D E X

GENERAL
G000 COVER SHEET
G001 ABBREVIATIONS

CIVIL
C100 CIVIL LEGENDS
C101 SITE PLAN
C102 SITE GRADING PLAN
C103 SITE DRIVEWAY PLAN
C104 YARD PIPING PLAN
C105 WELL TO WTP YARD PLAN
C106 WTP TO OFF-SITE YARD PIPING PLAN
C107 LANDSCAPING PLAN
C108 INITIAL EROSION CONTROL
C109 FINAL EROSION CONTROL
C500 CIVIL DETAILS
C501 CIVIL DETAILS
C502 CIVIL DETAILS

STRUCTURAL
S000 STRUCTURAL COVER SHEET
S100 FIRST LEVEL FOUNDATION PLAN
S101 MEZZANINE FRAMING PLAN
S102 ROOF FRAMING PLAN
S200 FOUNDATION DETAILS
S201 FRAMING DETAILS
S300 BUILDING SECTIONS
S500 TYPICAL CONCRETE DETAILS
S501 TYPICAL CONCRETE WALL / SLAB DETAILS
S502 TYPICAL CONCRETE MISC (MEP & PROCESS) DETAILS
S503 TYPICAL CONCRETE DETAILS
S504 TYPICAL MASONRY DETAILS
S505 TYPICAL MASONRY DETAILS
S506 TYPICAL PRECAST DETAILS
S507 TYPICAL BAR GRATE AND PLATFORM DETAILS

ARCHITECTURAL
A000 ARCHITECTURAL LEGENDS AND NOTES
A100 ARCHITECTURAL PLANS
A200 ARCHITECTURAL ELEVATIONS
A300 ARCHITECTURAL SECTIONS
A400 ARCHITECTURAL ENLARGED PLANS
A500 ARCHITECTURAL DETAILS
A600 ARCHITECTURAL SCHEDULES

PLUMBING
PL100 UNDERFLOOR PLUMBING PLAN
PL101 FIRST FLOOR PLUMBING PLAN
PL300 PLUMBING ISOMETRICS
PL500 PLUMBING DETAILS & SCHEDULES

PROCESS
P000 PROCESS LEGEND
P101 FIRST FLOOR PROCESS PLAN
P300 PROCESS HIGH SERVICE AND FEED PUMP SECTIONS
P301 PROCESS HYDROPNEUMATIC TANK SECTIONS
P302 DUALATOR SECTIONS 1 OF 2
P303 DUALATOR SECTIONS 2 OF 2
P400 ENLARGED PROCESS PLAN 1 OF 2
P401 ENLARGED PROCESS PLAN 2 OF 2
P500 PROCESS DETAILS
P600 PROCESS SCHEDULES

MECHANICAL
M000 MECHANICAL LEGEND
M101 FIRST FLOOR HVAC PLAN
M300 HVAC SECTIONS
M500 MECHANICAL DETAILS & SCHEDULES

ELECTRICAL
E000 ELECTRICAL LEGEND
E100 ELECTRICAL SITE PLAN
E101 FIRST FLOOR POWER PLAN
E102 FIRST FLOOR LIGHTING PLAN
E500 ELECTRICAL DETAILS
E501 ELECTRICAL ONE-LINE DIAGRAM
E600 ELECTRICAL SCHEDULES
E601 ELECTRICAL SCHEDULES

INSTRUMENTATION & CONTROL
IC000 P&ID LEGEND
IC500 P&ID - WELLS AND FILTRATION SYSTEM
IC501 P&ID - TOWER & GROUND STORAGE RESERVOIR
IC502 P&ID - LEGEND (TONKA)
IC503 P&ID - WTP (TONKA)
IC600 I&C - DETAILS & SCHEDULES

TOTAL SHEETS: 69

NORTH
0 2000
1000

VICINITY MAP
1"=2000'

HORIZONTAL CONTROL
MODIFIED COORDINATE SYSTEM -
SEE SHEETS IN DRAWINGS

VERTICAL DATUM
NAVD88

I HEARBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF COLORADO.

GREGORY LOUIS PANZA, P.E. DATE: 00/00/0000
LICENSE NUMBER: 37081
MY LICENSE RENEWAL DATE IS OCTOBER 31, 2025.
PAGES OR SHEETS COVERED BY THIS SEAL:
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I HEARBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF COLORADO.

JEREMY D. MIRONAS, P.E. DATE: 00/00/0000
LICENSE NUMBER: 47175
MY LICENSE RENEWAL DATE IS OCTOBER 31, 2025.
PAGES OR SHEETS COVERED BY THIS SEAL:
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DOUGLAS A. SULLIVAN, P.E. DATE: 00/00/0000
LICENSE NUMBER: 57977
MY LICENSE RENEWAL DATE IS OCTOBER 31, 2025.
PAGES OR SHEETS COVERED BY THIS SEAL:
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I HEARBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF COLORADO.

KEVIN S. SPARROW, P.E. DATE: 00/00/0000
LICENSE NUMBER: 47762
MY LICENSE RENEWAL DATE IS OCTOBER 31, 2025.
PAGES OR SHEETS COVERED BY THIS SEAL:
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I HEARBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF COLORADO.

NAME, P.E. DATE: *00/00/0000*
LICENSE NUMBER: *12345*
MY LICENSE RENEWAL DATE IS DECEMBER 31, 2023.
PAGES OR SHEETS COVERED BY THIS SEAL:
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NAME, P.E. DATE: *00/00/0000*
LICENSE NUMBER: *12345*
MY LICENSE RENEWAL DATE IS DECEMBER 31, 2023.
PAGES OR SHEETS COVERED BY THIS SEAL:
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HRGreen

1975 RESEARCH PARKWAY, SUITE 230 | COLORADO SPRINGS, CO 80920
Phone: 719.300.4140 | Toll Free: 800.728.7805 | Fax: 713.965.0044 | HRGreen.com

EL PASO COUNTY:

COUNTY PLAN REVIEW IS PROVIDED ONLY FOR GENERAL CONFORMANCE WITH COUNTY DESIGN CRITERIA. THE COUNTY IS NOT RESPONSIBLE FOR THE ACCURACY AND ADEQUACY OF THE DESIGN, DIMENSIONS, AND/ OR ELEVATIONS WHICH SHALL BE CONFIRMED AT THE JOB SITE. THE COUNTY THROUGH THE APPROVAL OF THIS DOCUMENT ASSUMES NO RESPONSIBILITY FOR COMPLETENESS AND/ OR ACCURACY OF THIS DOCUMENT.

FILED IN ACCORDANCE WITH THE REQUIREMENTS OF THE EL PASO COUNTY LAND DEVELOPMENT CODE, DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2, AND ENGINEERING CRITERIA MANUAL AS AMENDED.

IN ACCORDANCE WITH ECM SECTION 1.12, THESE CONSTRUCTION DOCUMENTS WILL BE VALID FOR CONSTRUCTION FOR A PERIOD OF 2 YEARS FROM THE DATE SIGNED BY THE EL PASO COUNTY ENGINEER. IF CONSTRUCTION HAS NOT STARTED WITHIN THOSE 2 YEARS, THE PLANS WILL NEED TO BE RESUBMITTED FOR APPROVAL, INCLUDING PAYMENT OF REVIEW FEES AT THE PLANNING AND COMMUNITY DEVELOPMENT DIRECTORS DISCRETION.

JENNIFER IRVINE, P.E. DATE
COUNTY ENGINEER / ECM ADMINISTRATOR

ENGINEER'S STATEMENT (FOR GEC PLAN WITHIN CONSTRUCTION DRAWING SET):

THESE DETAILED PLANS AND SPECIFICATIONS WERE PREPARED UNDER MY DIRECTION AND SUPERVISION. SAID PLANS AND SPECIFICATIONS HAVE BEEN PREPARED ACCORDING TO THE CRITERIA ESTABLISHED BY THE COUNTY FOR DETAILED ROADWAY, DRAINAGE, GRADING AND EROSION CONTROL PLANS AND SPECIFICATIONS, AND SAID PLANS AND SPECIFICATIONS ARE IN CONFORMITY WITH APPLICABLE MASTER DRAINAGE PLANS AND MASTER TRANSPORTATION PLANS. SAID PLANS AND SPECIFICATIONS MEET THE PURPOSES FOR WHICH THE PARTICULAR ROADWAY AND DRAINAGE FACILITIES ARE DESIGNED AND ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. I ACCEPT RESPONSIBILITY FOR ANY LIABILITY CAUSED BY ANY NEGLIGENT ACTS, ERRORS OR OMISSIONS ON MY PART IN PREPARATION OF THESE DETAILED PLANS AND SPECIFICATIONS.

GREG PANZA, P.E. #37081 DATE
FOR AND ON BEHALF OF HR GREEN, INC.

OWNER'S STATEMENT (FOR GEC PLAN WITHIN CONSTRUCTION DRAWING SET):

I, THE OWNER/DEVELOPER, HAVE READ AND WILL COMPLY WITH THE REQUIREMENTS OF THE GRADING AND EROSION CONTROL PLAN AND ALL OF THE REQUIREMENTS SPECIFIED IN THESE DETAILED PLANS AND SPECIFICATIONS.

OWNER'S SIGNATURE DATE

ENGINEERS STATEMENT:

THE DETAILED PLANS AND SPECIFICATIONS WERE PREPARED UNDER MY DIRECTION AND SUPERVISION. SAID DETAILS AND SPECIFICATIONS HAVE BEEN PREPARED ACCORDING TO THE CRITERIA ESTABLISHED BY THE STATE OF COLORADO.

GREG PANZA, P.E. #37081 DATE
FOR AND ON BEHALF OF HR GREEN, INC.

PROJECT CONTACTS:

OWNER/DEVELOPER
D.R. HORTON
9555 S. KINGSTON COURT, SUITE 200
ENGELWOOD, CO 80112
TELE: (303) 488-0061
ATTN: RILEY HILLEN, PE AND BRYAN REID, PE
EMAIL: RHILLEN@DRHORTON.COM AND BAREID1@DRHORTON.COM

APPLICANT
HR GREEN
5613 DTC PARKWAY | SUITE 950
GREENWOOD VILLAGE, CO 80111
TELE: (720) 602-4999
ATTN: GREGORY PANZA P.E.
EMAIL: GPANZA@HRGREEN.COM

CIVIL ENGINEER
HR GREEN
5613 DTC PARKWAY | SUITE 950
GREENWOOD VILLAGE, CO 80111
TELE: (720) 602-4999
ATTN: GREGORY PANZA P.E.
EMAIL: GPANZA@HRGREEN.COM

GEOTECHNICAL ENGINEER
COMPANY: CTL | THOMPSON
ADDRESS: 5170 MARK DABLING BLVD
COLORADO SPRINGS, CO 80918
TELE: (719) 528-8300
ATTN: JEFF JONES
EMAIL: COLORADOSPRINGS@CTLTHOMPSON.COM

TRAFFIC ENGINEER
LSC TRANSPORTATION CONSULTANTS INC.
2504 EAST PIKES PEAK AVENUE, SUITE 304
COLORADO SPRINGS, CO 80909
TELE: &719) 633-2868
ATTN: JEFFREY C. HODSON, P.E.
EMAIL: LSC@LSCTRANS.COM

SURVEYOR
EDWARD-JAMES SURVEYING, INC.
926 ELKTON DRIVE
COLORADO SPRINGS, CO 80907
TELE: (719) 576-1216
ATTN: JONATHAN W. TESSIN
EMAIL: JTESSIN@EJSURVEYING.COM

UTILITY CONTACTS:

WATER
GRANDVIEW RESERVE METROPOLITAN DISTRICT
1272 KELLY JOHNSON BLVD. SUITE 100
COLORADO SPRINGS, CO 80921
TELE: (719 499-8416
ATTN: PAUL HOWARD
EMAIL: PAULINFINITY1@MSN.COM

WASTEWATER / WATER
WOODMEN HILLS METRO DISTRICT
8046 EASTONVILLE ROAD
FALCON, CO 80831
TELE: (719) 495-2500
CONTACT: CODY RITTER
EMAIL: CODY@WHMD.ORG

ELECTRIC / FIBER
MOUNTAIN VIEW ELECTRIC ASSOCIATION
11140 E. WOODMEN RD.
FALCON, CO 80831
TELE: (800) 388-9881
ATTN: GINA PERRY
EMAIL: GINA.P@MVEA.COOP

NATURAL GAS
BLACK HILLS ENERGY
198 COUNTY LINE RD.
PALMER LAKE, CO 80133
TELE: (719) 332-5856
ATTN: BOB SWATEK
EMAIL: BOB.SWATEK@BLACKHILLSCORP.COM

FIRE
FALCON FIRE PROTECTION DISTRICT
7030 OLD MERIDIAN RD.
FALCON, CO 80831
TELE: (719) 495-4050
ATTN: TRENT HARWIG
EMAIL: THARWIG@FALCONFIREPD.ORG

COMMUNICATIONS
CENTURY LINK
ZAYO
USWEST

PCD #:

DRAWN BY: Author	JOB DATE: 2024	BAR IS ONE INCH ON OFFICIAL DRAWINGS 0 1" IF NOT ONE INCH, ADJUST SCALE ACCORDINGLY	
APPROVED: Approver	JOB NUMBER: 201662.06		
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NO.	DATE	BY	REVISION DESCRIPTION

HRGreen
HR GREEN - COLORADO SPRINGS
1975 RESEARCH PARKWAY | SUITE 230
COLORADO SPRINGS, CO 80920
PHONE: 719.300.4140
FAX: 713.965.0044

EL PASO COUNTY, COLORADO
GRANDVIEW RESERVE DISTRICT
D.R. HORTON
COLORADO

D·R·HORTON America's Builder

GENERAL

COVER SHEET

SHEET
G000

LEGEND

	EXISTING	PROPOSED
MATCH LINE		
PHASE LINE		
SECTION LINE		
PROPERTY LINE		
EASEMENT LINE		
RIGHT OF WAY		
CENTERLINE		
CHAIN LINK FENCE		
WOODEN FENCE		
ROD IRON FENCE		
GUARDRAIL		
CABLE TV	TV	TV
U.G. ELECTRIC	UE	UE
OVERHEAD ELECTRIC	OE	OE
FIBER OPTIC	FO	FO
GAS MAIN	GAS	GAS
SANITARY SEWER	S	S
STORM DRAIN		
TELEPHONE	UT	UT
WATER MAIN	W	W
SWALE		
TRAIL		
CURB & GUTTER		
DRAINAGE BASIN		
INDEX CONTOUR		
INTER. CONTOUR		
100-YR FLOODPLAIN		
FLOODWAY		
EDGE OF WETLANDS		

DRAINAGE

	EXISTING	PROPOSED
DRAINAGE BASIN		
BASIN TAG		I.D. AREA
DESIGN POINT		1

STORM SEWER

	EXISTING	PROPOSED
MANHOLE	ST	D
STORM INLET		
FLARED END SECTION		
RIPRAP		

SANITARY SEWER

	EXISTING	PROPOSED
CLEAN OUT		
MANHOLE	S	S
PLUG		

WATER

	EXISTING	PROPOSED
FIRE HYDRANT		
FIRE DEPT. CONNECTION		
GATE VALVE		
MANHOLE	W	W
METER	WM	WM
TEE		
REDUCER		

DRY UTILITIES

ELECTRIC METER	EM
ELECTRIC PEDESTAL	E
ELECTRICAL CABINET	E
ELECTRIC VAULT	EVU
FIBER OPTIC PULL BOX	F
FIBER OPTIC MANHOLE	FO
FIBER OPTIC PEDESTAL	FO
FIBER OPTIC SIGN	
FIBER OPTIC VAULT	FVU
GAS METER	GM
GAS SIGN	
GAS VAULT	GVU
TELEPHONE CABINET	T
TELEPHONE MANHOLE	TH
TELEPHONE SIGNAL/MAST	T
TELEPHONE SIGN	
TELEPHONE PEDESTAL	T
TRANSFORMER	
LIGHT POLE	
FIBER OPTIC VAULT	FVU

MISCELLANEOUS

SIGN	
BOLLLARD	
ACCESSIBLE PARKING	

BMP LEGEND:

CWA	CONCRETE WASHOUT AREA
CF	CONSTRUCTION FENCE
DD	DIVERSION DITCH
IP	INLET PROTECTION
OP	OUTLET PROTECTION
SF	SILT FENCE
VTC	VEHICLE TRACKING CONTRO
SSA	STABILIZED STAGING AREA
LOC	LIMITS OF CONSTRUCTION
CD	CHECK DAM
SM	SEEDING AND MULCHING
SB	SEDIMENT BASIN
SR	SURFACE ROUGHENING
ECB	EROSION CONTROL BLANKE
CIP	CULVERT INLET PROTECTIO
RS	ROCK SOCK
SBB	STRAW BALE BARRIER

6/2024

Xrefs: xgt-1-dh01; Legend; Erosion_Control_Key

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APPROVED: JAS JOB NUMBER:
CAD DATE: 7/18/2024 1:35:39 PM
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BAR IS ONE INCH ON OFFICIAL DRAWINGS. 0 1" IF NOT ONE INCH, ADJUST SCALE ACCORDINGLY.

NO.	DATE	BY	REVISION DESCRIPTION

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1975 RESEARCH PARKWAY | SUITE 230
COLORADO SPRINGS CO 80920
PHONE: 719.300.4140
FAX: 713.965.0044

EL PASO COUNTY, COLORDO
GRANDVIEW RESERVE DISTRICT
WTP WELL WATER COLLECTION
D.R. HORTON
COLORADO

D·R·HORTON America's Builder

CIVIL
CIVIL LEGENDS

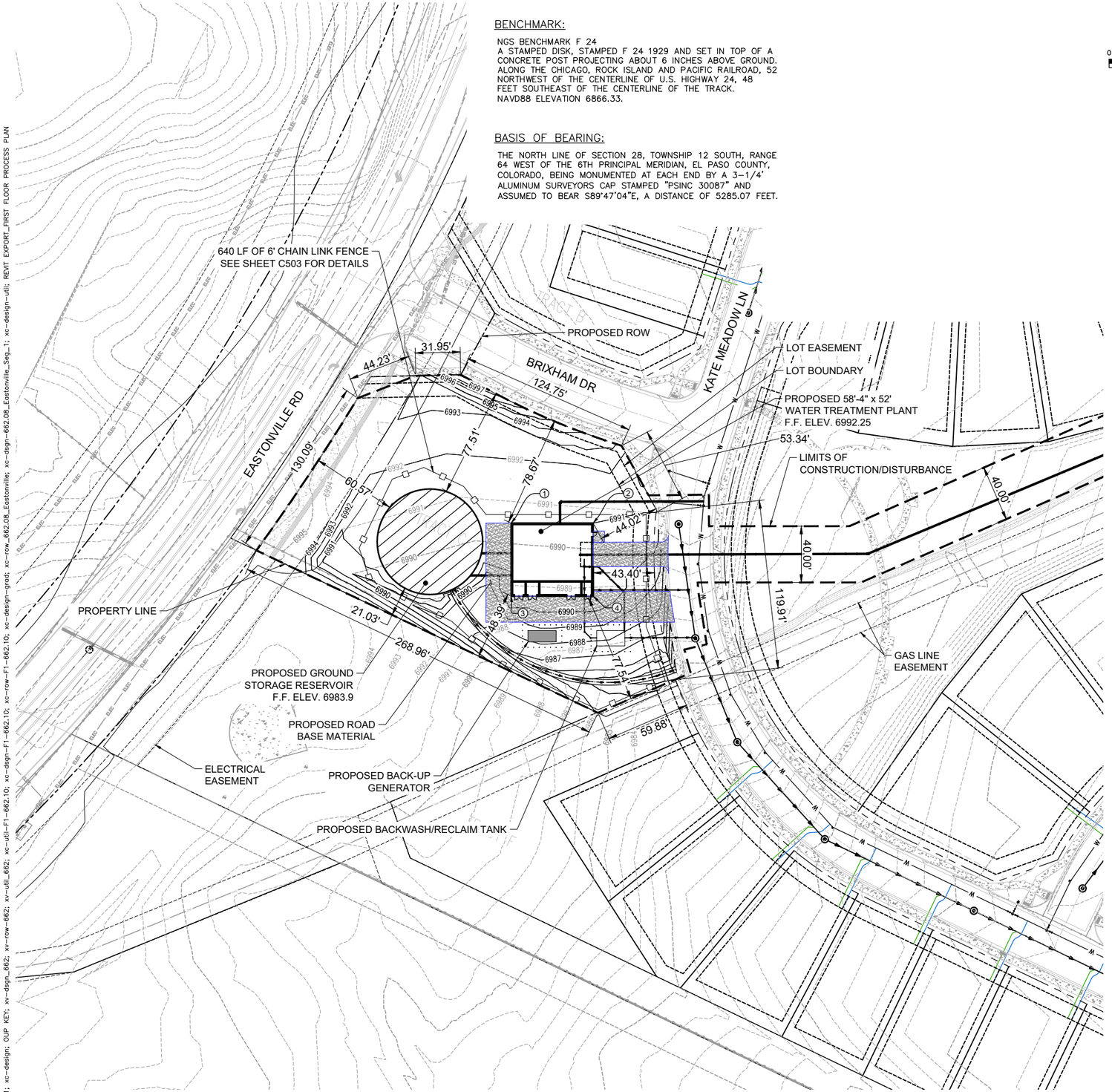
SHEET
C100

BENCHMARK:

NGS BENCHMARK F 24
A STAMPED DISK, STAMPED F 24 1929 AND SET IN TOP OF A CONCRETE POST PROJECTING ABOUT 6 INCHES ABOVE GROUND. ALONG THE CHICAGO, ROCK ISLAND AND PACIFIC RAILROAD, 52 NORTHWEST OF THE CENTERLINE OF U.S. HIGHWAY 24, 48 FEET SOUTHEAST OF THE CENTERLINE OF THE TRACK.
NAVD88 ELEVATION 6866.33.

BASIS OF BEARING:

THE NORTH LINE OF SECTION 28, TOWNSHIP 12 SOUTH, RANGE 64 WEST OF THE 6TH PRINCIPAL MERIDIAN, EL PASO COUNTY, COLORADO, BEING MONUMENTED AT EACH END BY A 3-1/4' ALUMINUM SURVEYORS CAP STAMPED "PSINC 30087" AND ASSUMED TO BEAR S89°47'04"E, A DISTANCE OF 5285.07 FEET.

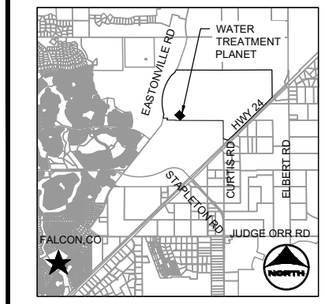


GENERAL NOTES:

1. "SCREENED" (LIGHT) DELINEATION SHOWN IN THIS SHEET DENOTES EXISTING CONDITIONS. "SCREENED" INFORMATION WAS TAKEN FROM PREVIOUS CONSTRUCTION DRAWINGS AND FIELD SURVEY, IS FOR REFERENCE ONLY, AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO ORDERING OF MATERIALS AND BEGINNING CONSTRUCTION. "BOLD" DELINEATION IS NEW WORK TO BE CONSTRUCTED UNDER THIS CONTRACT.
2. ALL INFORMATION PROVIDED WAS TAKEN FROM SURVEYS AND/OR EXISTING PLANS. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO FIELD VERIFY ALL HORIZONTAL AND VERTICAL INFORMATION BEFORE BEGINNING ANY WORK.
3. CONTRACTOR SHALL MAKE PROVISIONS TO MAINTAIN EXISTING LEVEL OF SECURITY AT SITE AT ALL TIMES.
4. OWNER IS NOT RESPONSIBLE FOR SECURED/UNSECURED STORED MATERIALS STORED ON SITE.
5. ALL WORK INVOLVED IN THIS PROJECT SHALL BE CONSTRUCTED ON DEVELOPER OWNED LAND, EL PASO COUNTY OWNED RIGHT-OF-WAY, OR ON EASEMENTS OBTAINED BY THE DEVELOPER. CONTRACTOR SHALL RESTRICT CONSTRUCTION OPERATIONS TO WITHIN THE DESIGNATED RIGHT-OF-WAY OR CONSTRUCTION EASEMENTS. ACCESS TO ALL WORK AREAS SHALL BE BY ACCESS EASEMENTS DEFINED ON DRAWINGS. NO MATERIALS, EXCAVATED MATERIAL, OR MATERIAL, OR EQUIPMENT SHALL BE STORED ON, PARKED ON, DEPOSITED ON, OR DRIVEN OVER ANY PRIVATE PROPERTY UNLESS WRITTEN AUTHORIZATION IS OBTAINED FROM THE PROPERTY OWNER BY THE CONTRACTOR. A COPY OF SUCH WRITTEN AGREEMENT SHALL BE PROVIDED TO THE CITY AND THE ENGINEER. UPON COMPLETION, CONTRACTOR SHALL PROVIDE TO THE CITY AND THE ENGINEER A WRITTEN RELEASE SIGNED BY THE PROPERTY OWNER.
6. CONTRACTOR SHALL MEASURE, RECORD, AND SUBMIT RECORD DRAWINGS AS REQUIRED IN CLOSEOUT SUBMITTALS SPECIFICATION SECTION. ADDITIONALLY, THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE ENGINEER DURING CONSTRUCTION AND SHALL PROVIDE ACCESS TO ALL UTILITIES PRIOR TO BEING BURIED; ALLOWING ACCURATE HORIZONTAL AND VERTICAL MEASUREMENTS TO BE ACQUIRED BY THE ENGINEER OR OWNER'S SURVEYOR. IN THE EVENT OF ANY DISCREPANCIES IDENTIFIED BY WOODMENHILLS METROPOLITAN DISTRICT (WHMD) AND AT NO COST TO WHMD, THE CONTRACTOR SHALL VERIFY THE LOCATION AND MEASUREMENTS OF ANY BURIED UTILITIES.
7. THE CONTRACTOR SHALL VIDEO RECORD THE ENTIRE PROJECT PRIOR TO BEGINNING CONSTRUCTION ACTIVITIES FOR THE PURPOSE OF DOCUMENTING EXISTING CONDITIONS. THE CONTRACTOR SHALL PROVIDE ONE COPY TO THE OWNER AND ONE COPY TO THE ENGINEER PRIOR TO PROCEEDING WITH ANY FIELD WORK.
8. TYPICAL WHMD STANDARDS AND SPECIFICATIONS ARE CALLED OUT PERIODICALLY THROUGHOUT PROJECT DOCUMENTS TO PROVIDE CLARIFICATION TO THE WHMD STANDARD SPECIFICATIONS OR FOR CONTRACTOR REFERENCE. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE WHMD STANDARD SPECIFICATIONS. WHMD REFERENCE CALLOUTS DO NOT NEGATE CONTRACTOR FROM FOLLOWING ANY WHMD SPECIFICATIONS NOT EXPLICITLY CALLED OUT IN PROJECT DRAWINGS.
9. CONTRACTOR SHALL CONTACT THE PRINCIPAL INSPECTOR 24 HOURS BEFORE BEGINNING CONSTRUCTION. CONTACT INFORMATION WILL BE PROVIDED AT THE PRECONSTRUCTION MEETING.
10. TEMPORARY FENCING: CONTRACTOR SHALL INSTALL AND MAINTAIN CONSTRUCTION FENCE AND PEDESTRIAN PROTECTION IN CONFORMANCE WITH THE INTERNATIONAL BUILDING CODE FOR THE DURATION OF THE PROJECT. PROVIDE TEMPORARY FENCING AROUND ANY OPEN EXCAVATION DURING CONSTRUCTION TO PROHIBIT UNAUTHORIZED ENTRANCE. FENCES SHALL BE CLOSED AT NIGHT. TEMPORARY FENCE MINIMUM 6' TALL CHAIN LINK.
11. DURING REMOVAL AND CONSTRUCTION THE CONTRACTOR SHALL USE ALL MEANS NECESSARY TO CONTROL DUST SPREADING FROM ALL WORK AND STAGING AREAS. DUST CONTROL MEASURES SHALL BE IN ACCORDANCE WITH COLORADO SPRINGS STORMWATER ENTERPRISE (SWENT) STORMWATER CONSTRUCTION MANUAL, BE APPROVED BY THE ENGINEER AND SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.
12. CONTRACTOR RESPONSIBLE TO CLEAN ALL TRACKED DIRT FROM PAVED SURFACES AT END OF EACH WORK DAY. CONTRACTOR RESPONSIBLE TO SWEEP HAUL AND STAGING ROUTE AS NECESSARY TO KEEP CLEAR OF DIRT AND DEBRIS. WATER SHALL BE USED DURING STREET SWEEPING EXCEPT DURING FREEZING CONDITIONS.
13. THE EXISTING CONDITION FOR THE PROPOSED PROJECT SITE WAS NATIVE GRASS WITH NO EXISTING BUILDINGS.
14. TRAFFIC PATTERNS FOR PROJECT SITE WILL BE MAINTENANCE AS REQUIRED.
15. NO SIGNS ARE ANTICIPATED FOR THE PROPOSED PROJECT SITE.
16. ADA PARKING SPACES WILL NOT BE LOCATED AT THE WATER TREATMENT PLANT AS IT WILL NOT BE ACCESSIBLE TO THE PUBLIC.

STRUCTURE LOCATES

Point #	Northing	Easting	Description
1	1419448.07	3265044.01	GRID LINE 1C
2	1419473.15	3265096.67	GRID LINE 5C
3	1419401.12	3265066.36	GRID LINE 1A
4	1419426.20	3265119.03	GRID LINE 5A



KEYMAP

PROJECT LEGEND:

- PROPERTY LINE
- RIGHT-OF-WAY LINE
- SECTION LINE
- EDGE OF PAVEMENT
- EXISTING FENCE
- EXISTING ELECTRIC LINE
- GAS — EXISTING GAS LINE
- EXISTING STORM DRAIN
- EXISTING WATERMAIN
- EXISTING WATER VALVE
- PROPOSED WATER SERVICE
- PROPOSED SANITARY SEWER
- PROPOSED SANITARY MANHOLE
- 5250 — EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- 5250 — PROPOSED MAJOR CONTOUR
- PROPOSED ELECT. EQUIPMENT
- PROPOSED DRIVEWAY
- PROPOSED CHEMICAL TANK
- PROPOSED EMERGENCY STORAGE
- FUTURE EMERGENCY STORAGE
- FUTURE PLUG VALVE
- LIMITS OF CONSTRUCTION

811 UNCC CALL BEFORE YOU DIG 811 OR 1-800-922-1987 Utility Notification Center of Colorado

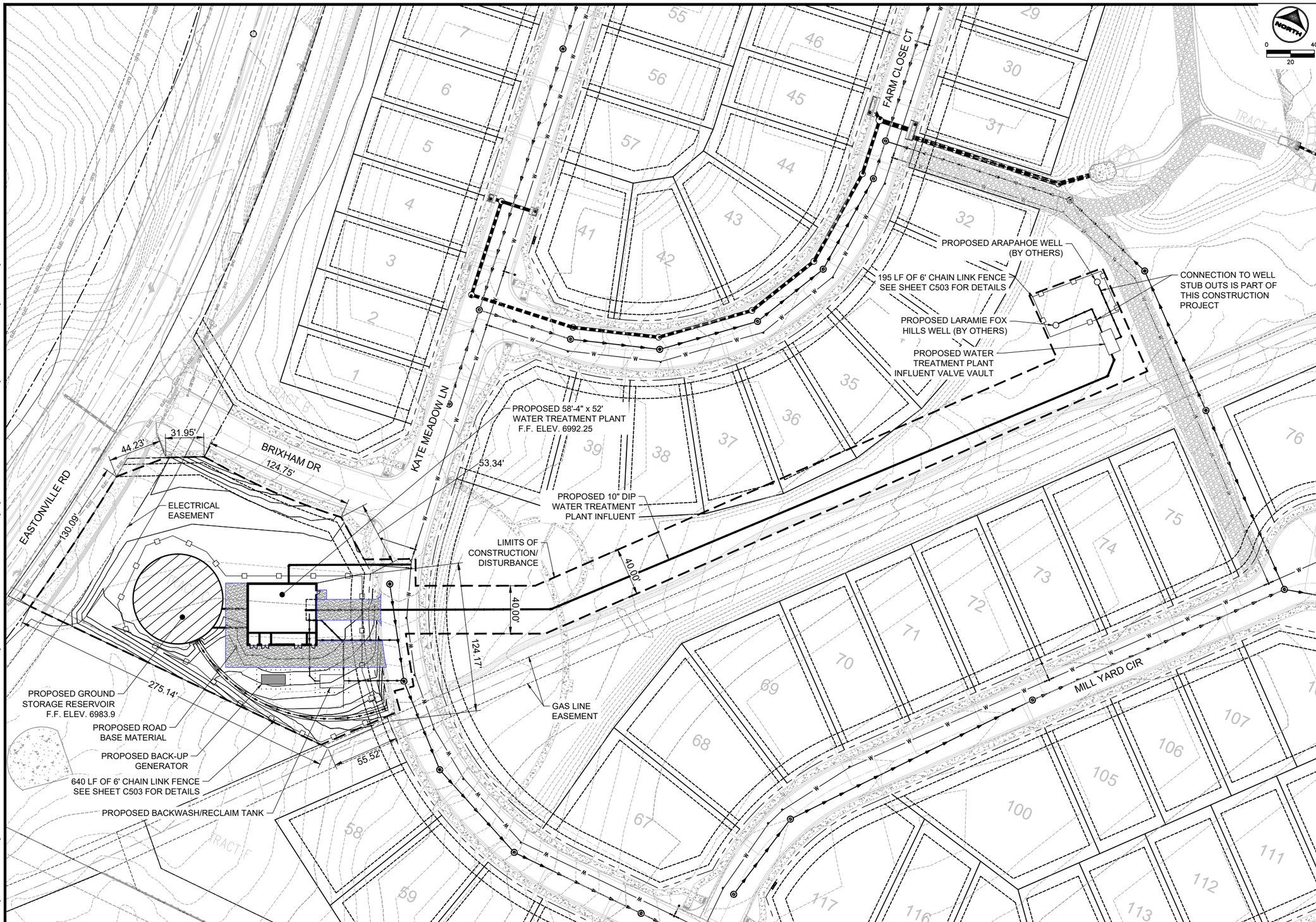
JES
JAS
8/16/2024 12:13:20 PM
J:\2020\201662.06\CAD\Dwgs\C\C101-SITE PLAN.dwg

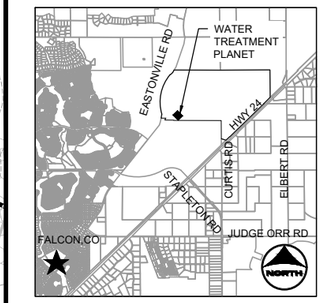
CIVIL

SITE PLAN

C101

Xrefs: xgl-1-dh01; xc-design; OUP KEY; xv-dsgn_662; xv-row-662; xv-util_662; xc-util-F1-662.10; xc-dsgn-F1-662.10; xc-row-F1-662.10; xc-design-grad; xc-row_662.08_Eastonville; xc-dsgn-662.08_Eastonville_Seg_1; xc-design-util; REVIT EXPORT_FIRST FLOOR PROCESS PLAN





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- EXISTING WATER VALVE
- PROPOSED WATER SERVICE
- PROPOSED SANITARY SEWER
- PROPOSED SANITARY MANHOLE
- 5250 — EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- 5250 — PROPOSED MAJOR CONTOUR
- PROPOSED ELECT. EQUIPMENT
- PROPOSED DRIVEWAY
- PROPOSED CHEMICAL TANK
- PROPOSED EMERGENCY STORAGE
- FUTURE EMERGENCY STORAGE
- FUTURE PLUG VALVE
- LIMITS OF CONSTRUCTION

811 UNCC CALL BEFORE YOU DIG 811 OR 1-800-922-1987 Utility Notification Center of Colorado

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HRGreen

HR GREEN - COLORADO SPRINGS
1975 RESEARCH PARKWAY | SUITE 230
COLORADO SPRINGS CO 80920
PHONE: 719.300.4140
FAX: 713.965.0044

EL PASO COUNTY, COLORDO
GRANDVIEW RESERVE DISTRICT
WTP WELL WATER COLLECTION
D.R. HORTON
COLORADO

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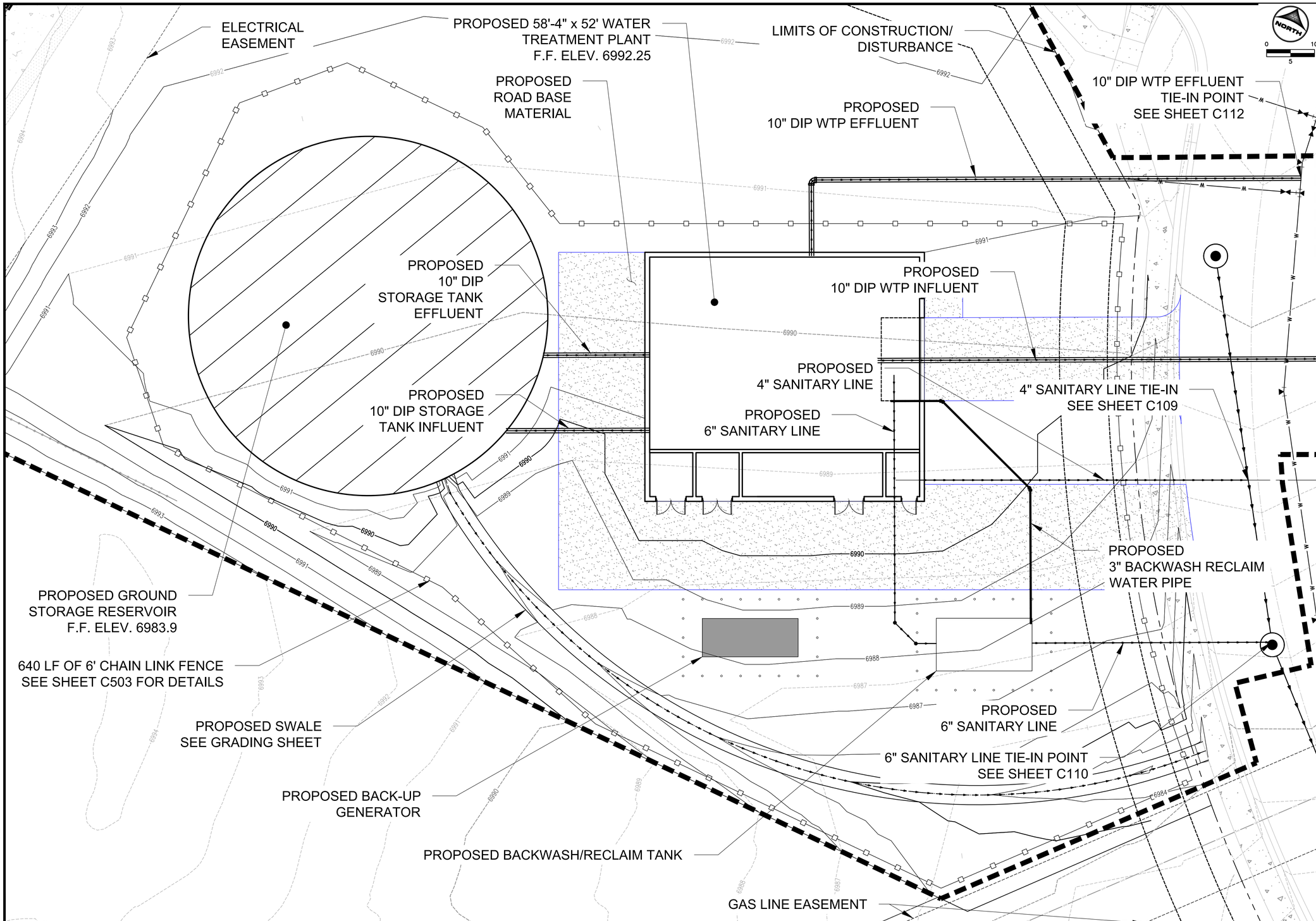
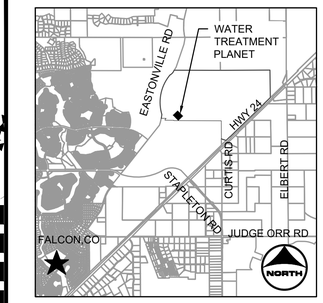
CIVIL

SITE PLAN – EXPANDED VIEW

SHEET C102

Xrefs: xgt-1-dh01; xc-design; OUP KEY; xv-dsgn_662; xv-row-662; xc-util_662; xc-util-F1-662.10; xc-dsgn-F1-662.10; xc-row-F1-662.10; xc-design-grad; xc-row_662.08_Eastonville; xc-dsgn-662.08_Eastonville_Seg_1; xc-design-util; REVIT EXPORT_FIRST FLOOR PROCESS PLAN





KEYMAP

PROJECT LEGEND:

- PROPERTY LINE
- RIGHT-OF-WAY LINE
- SECTION LINE
- EDGE OF PAVEMENT
- EXISTING FENCE
- EXISTING ELECTRIC LINE
- GAS — EXISTING GAS LINE
- EXISTING STORM DRAIN
- EXISTING WATERMAIN
- EXISTING WATER VALVE
- PROPOSED WATER SERVICE
- PROPOSED SANITARY SEWER
- PROPOSED SANITARY MANHOLE
- 5250 — EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- 5250 — PROPOSED MAJOR CONTOUR
- PROPOSED ELECT. EQUIPMENT
- PROPOSED DRIVEWAY
- PROPOSED CHEMICAL TANK
- PROPOSED EMERGENCY STORAGE
- FUTURE EMERGENCY STORAGE
- FUTURE PLUG VALVE
- LIMITS OF CONSTRUCTION

811 UNCC CALL BEFORE YOU DIG 811 OR 1-800-922-1987 Utility Notification Center of Colorado

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HRGreen

HR GREEN - COLORADO SPRINGS
1975 RESEARCH PARKWAY | SUITE 230
COLORADO SPRINGS CO 80920
PHONE: 719.300.4140
FAX: 713.965.0044

EL PASO COUNTY, COLORDO
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WTP WELL WATER COLLECTION
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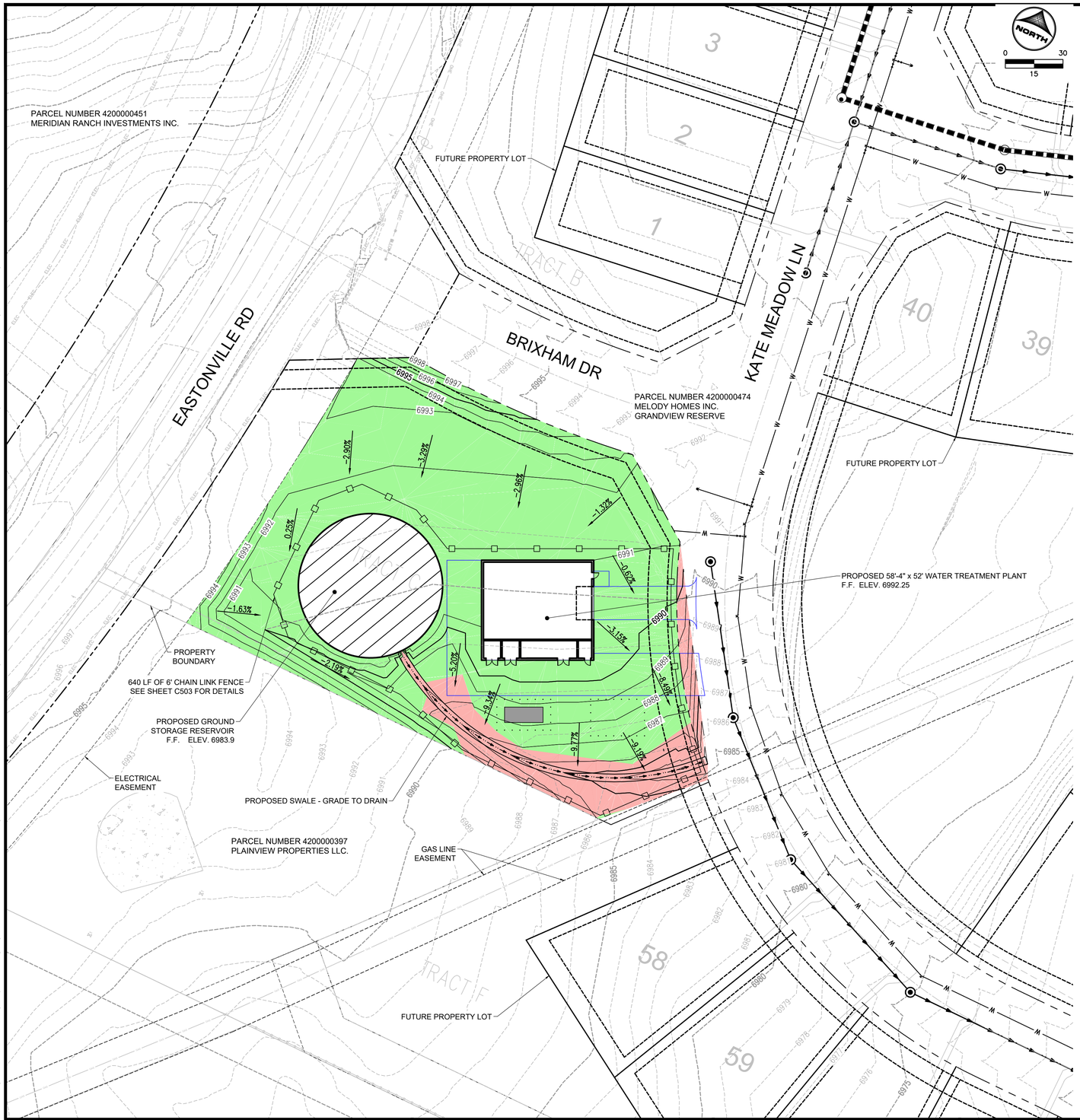
SITE PLAN – CONSOLIDATED VIEW

SHEET C103

Xrefs: xgt-1-dh01; xc-design; OUP KEY; xv-design_662; xv-row-662; xv-util_662; xc-util-F1-662.10; xc-dsgn-F1-662.10; xc-row-F1-662.10; xc-design-grad; xc-row_662.08_Eastonville; xc-dsgn-662.08_Eastonville_Seg_1; xc-design-util; REVIT EXPORT_FIRST FLOOR PROCESS PLAN



GENERAL NOTES:

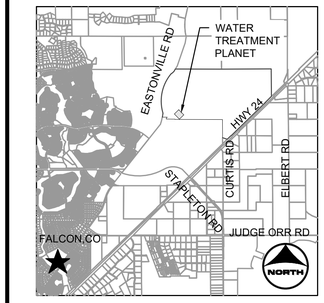
(GENERAL NOTES CONTAIN EXCERPTS FROM THE GEOTECHNICAL REPORT THAT ARE IN NO WAY MEANT TO RELIEVE CONTRACTOR FROM INFORMATION CONTAINED IN THE GEOTECHNICAL REPORT.)

1. REFER TO SHEET S.000 FOR ADDITIONAL GEOTECHNICAL REQUIREMENTS.
2. CONTRACTOR SHALL COMPLY WITH SPECIFICATION SECTION 31 5000 FOR SUPPORTS AND PROTECTION.
3. CONTRACTOR SHALL COMPLY WITH TECHNICAL SPECIFICATIONS AND WOODMENHILLS METROPOLITAN DISTRICT WATER AND WASTEWATER STANDARD SPECIFICATIONS FOR DEWATERING, GRADING, EXCAVATION, FILL AND BACKFILL, AND TRENCHING. SEE GEOTECHNICAL INVESTIGATION REPORT FOR EARTHWORK RECOMMENDATIONS. INSTALL EARTHWORK ACCORDING TO WOODMENHILLS METROPOLITAN DISTRICT WATER AND WASTEWATER STANDARD SPECIFICATIONS AND RECOMMENDATIONS FROM THE GEOTECHNICAL INVESTIGATION REPORT.
4. WATER LEVELS WERE OBSERVED WITHIN THE DEPTHS OF PLANNED EXCAVATION FOR THE PROPOSED STRUCTURES. DEWATERING WILL BE REQUIRED WHERE SEEPAGE IS ENCOUNTERED. GROUNDWATER LEVELS SHOULD BE MAINTAINED AT LEAST TWO FEET BELOW BOTTOM OF EXCAVATION UNTIL FOUNDATION SLABS ARE COMPLETED. THE CONTRACTOR IS RESPONSIBLE FOR EMPLOYING APPROPRIATE DEWATERING METHODS TO CONTROL SEEPAGE INTO THE EXCAVATION. SEE GEOTECHNICAL REPORT AND SPECIFICATION SECTION 31 2319 FOR MORE INFORMATION ON DEWATERING.
5. IN AREAS TO ACCEPT FILL, THE TOP 12 INCHES OF THE GROUND SURFACE SHALL BE SCARIFIED AND COMPACTED TO ELIMINATE A PLANE OF WEAKNESS ALONG THE CONTACT SURFACE. EACH LIFT PLACED ABOVE THE FOUNDATION LEVEL SHOULD BE COMPACTED TO AT LEAST 95 PERCENT OF THE SOIL'S STANDARD PROCTOR DENSITY (ASTM D698). THE MOISTURE CONTENT OF THE COHESIVE SOILS SHOULD BE MAINTAINED WITHIN A RANGE OF 0 PERCENT BELOW TO 4 PERCENT ABOVE THE MATERIALS STANDARD PROCTOR OPTIMUM MOISTURE CONTENT.
6. GENERAL FILL MATERIAL TO COMPLY WITH WOODMENHILLS METROPOLITAN DISTRICT WATER AND WASTEWATER STANDARD SPECIFICATIONS AND SHALL BE FREE OF FOREIGN SUBSTANCE, DEBRIS, LARGE STONES, ROCKS, ROOTS, ORGANIC OR FROZEN MATERIAL, EXPANSIVE MATERIAL AND OTHER DELETERIOUS MATERIALS. UNSUITABLE SOILS SHALL BE DISPOSED OF BY THE CONTRACTORS.
7. FILL SHALL NOT BE FROZEN AND SHALL NOT BE PLACED ON A FROZEN SURFACE. ALL COHESIVE SOILS USED AS FILL AT THIS SITE SHALL HAVE A MAXIMUM LIQUID LIMIT OF 45 AND A MAXIMUM PLASTICITY INDEX OF 20.
8. ENSURE THAT PREVIOUSLY COMPACTED LIFTS ARE SCARIFIED 2 INCHES DEEP PRIOR TO COMPACTING THE NEXT LIFT.
9. REMOVE, STOCKPILE, AND REPLACE NATIVE MATERIAL 8 INCHES (TOP SOIL) BELOW EXISTING SURFACE FOR ALL AREAS DISTURBED (NOT SURFACED WITH GRAVEL, RIPRAP, OR OTHER DESIGNATED MATERIALS) WITHIN THE LIMITS OF CONSTRUCTION. NO ADDITIONAL PAYMENT WILL BE MADE FOR TOPSOIL OR MATERIAL THAT THE CONTRACTOR NEEDS TO IMPORT FROM OFFSITE. SEE SHEET X.XXX FOR ADDITIONAL STOCKPILING NOTES.
10. SITE GRADING SHALL PROVIDE FOR POSITIVE DRAINAGE AWAY FROM ALL STRUCTURES AND FOUNDATIONS UNLESS NOTED OTHERWISE.
11. FENCING SHALL COMPLY WITH SPECIFICATION SECTION 32 3119. SEE TYPICAL DETAILS.

SITE DATA:

- PARCEL: 42000000474
- PROPERTY ADDRESS: PLAT #SF2311 TRACT C
- EXISTING ZONING: PUD, RR-2.5
- PARCEL SIZE: 176.7 ACRES
- LEGAL DESCRIPTION: A TRACT OF LAND BEING IN THE SOUTHWEST QUARTER OF SECTION 21, AND A PORTION OF THE NORTHWEST QUARTER OF SECTION 28, TOWNSHIP 12 SOUTH, RANGE 64 WEST OF THE 6TH PRINCIPAL MERIDIAN, COUNTY OF EL PASO, COLORADO
- EXISTING LAND USE IS UNDEVELOPED/NATURAL CONDITIONS
- WATER TREATMENT PLANT LOT AREA: 1.04 ACRES
- BUILDING: 3033 SF (7451 SF WITH TANK)
- PARKING WILL BE FOR MAINTENANCE ONLY

OPEN SPACE/LANDSCAPING - 73.1%
IMPERMEABLE SURFACE - 26.1%



KEYMAP

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- PROPERTY LINE
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- SECTION LINE
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- EXISTING FENCE
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- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- PROPOSED ELECT. EQUIPMENT
- PROPOSED DRIVEWAY
- LIMITS OF CONSTRUCTION
- CUT AREA
- FILL AREA

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APPROVED: JAS JOB NUMBER:
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HRGreen
HR GREEN - COLORADO SPRINGS
1975 RESEARCH PARKWAY | SUITE 230
COLORADO SPRINGS CO 80920
PHONE: 719.300.4140
FAX: 713.965.0044

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GRANDVIEW RESERVE DISTRICT
WTP WELL WATER COLLECTION
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COLORADO

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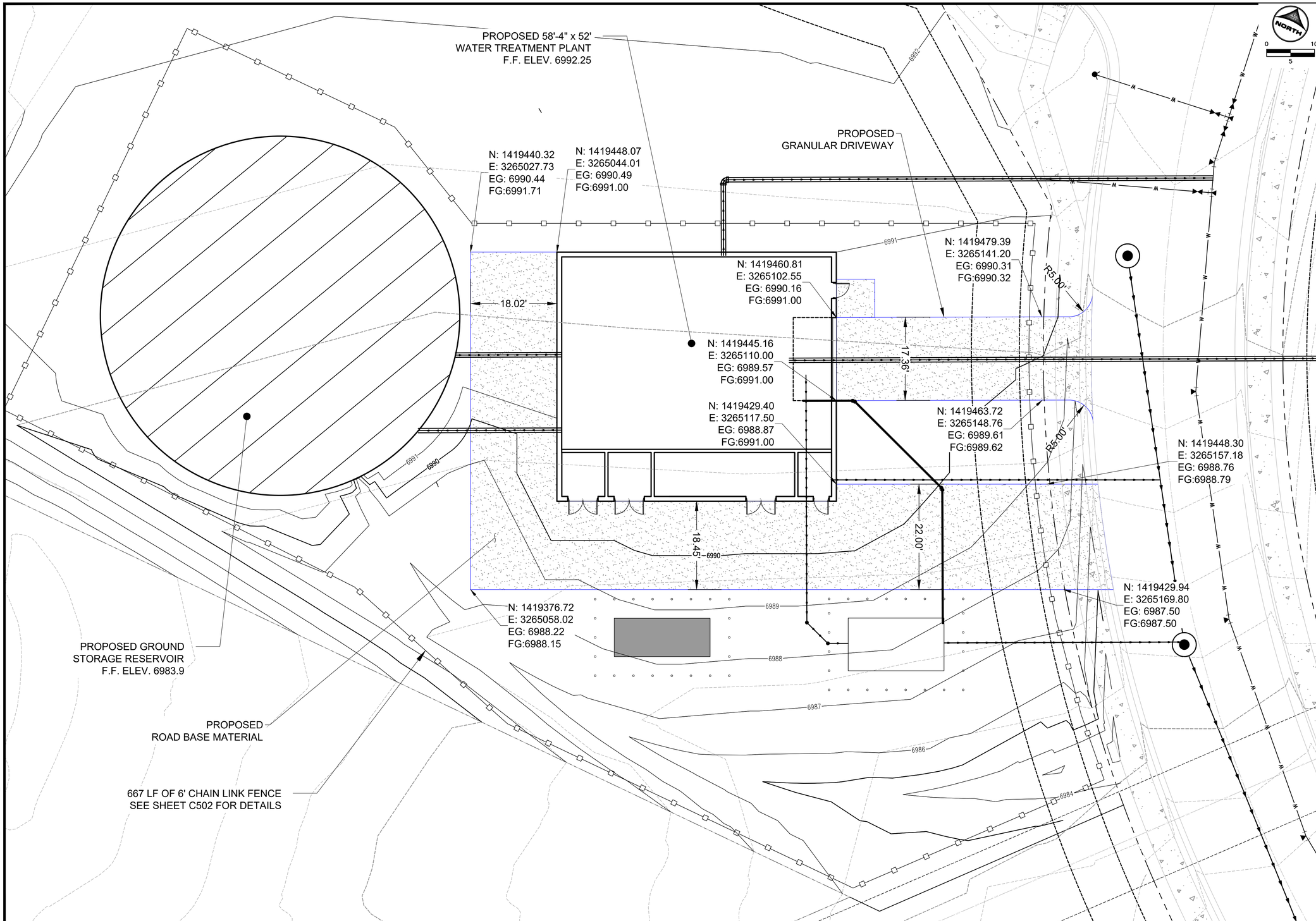
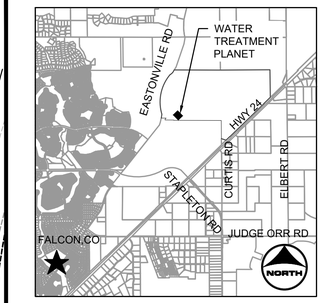
SITE GRADING PLAN

SHEET C104

Xrefs: xg:-1-dh01; xc-design; OUP KEY; Grading_Key; xc-design-grad; xc-util-F1-662.10; xc-dsgn-F1-662.10; xc-row-F1-662.10; xv-dsgn_662; xv-row-662; xv-util_662; xc-row_662.08_Eastonville; xc-dsgn-662.08_Eastonville_Seg_1; xc-design-util





KEYMAP

PROJECT LEGEND:

- PROPERTY LINE
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- PROPOSED ELECT. EQUIPMENT
- PROPOSED DRIVEWAY
- PROPOSED CHEMICAL TANK
- PROPOSED EMERGENCY STORAGE
- FUTURE EMERGENCY STORAGE
- FUTURE PLUG VALVE
- LIMITS OF CONSTRUCTION

GENERAL NOTES:

1. SEE DETAIL X/C5XX FOR TYPICAL GRANULAR DRIVEWAY SECTION.

811 UNCC CALL BEFORE YOU DIG 811 OR 1-800-922-1987 Utility Notification Center of Colorado

Xrefs: xgt-1-dh01; xc-design; OUP KEY; Grading_Key; xv-dsgn_662; xv-row-662; xv-util_662; xc-util-F1-662.10; xc-dsgn-F1-662.10; xc-row-F1-662.10; xc-dsgn-662.08_Eastonville; xc-dsgn-662.08_Eastonville_Sng_1; xc-design-grad; xc-design-util

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HR GREEN - COLORADO SPRINGS
1975 RESEARCH PARKWAY | SUITE 230
COLORADO SPRINGS CO 80920
PHONE: 719.300.4140
FAX: 713.965.0044

EL PASO COUNTY, COLORDO
GRANDVIEW RESERVE DISTRICT
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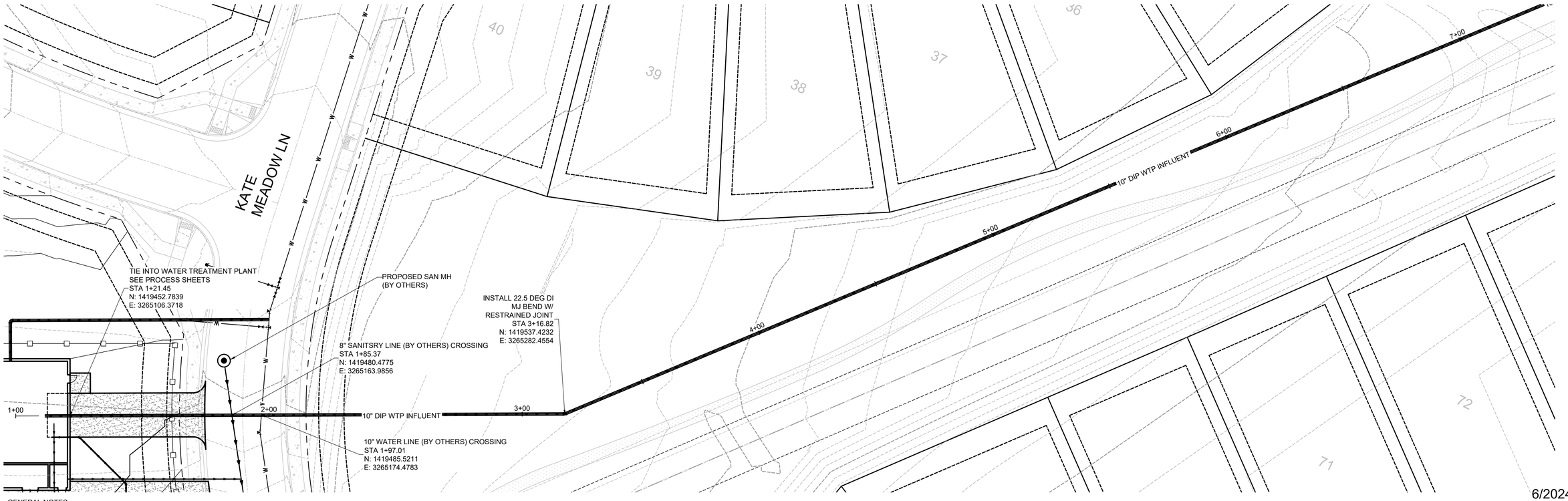
SITE DRIVEWAY PLAN

SHEET
C105



6/2024

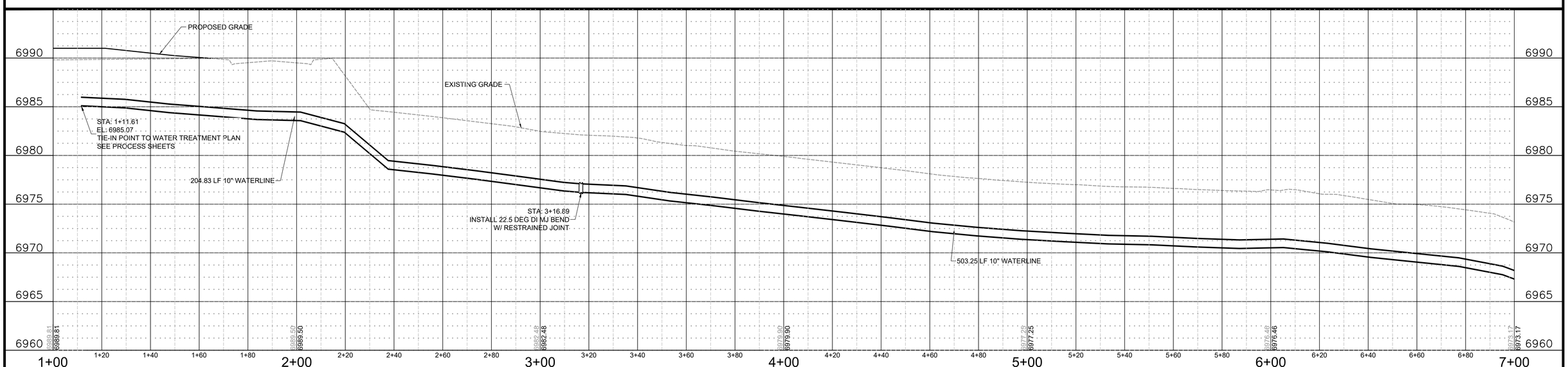
GENERAL NOTES:

1. SEE G.XXX FOR XXXX WATER AND WASTEWATER SYSTEM STANDARDS AND INSTALLATION NOTES.
2. SEE TECHNICAL SPECIFICATIONS FOR ADDITIONAL WATER AND WASTEWATER SPECIFICATIONS.

1 PLAN

NORTH

0 20
1"=20'



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HRGreen

HR GREEN - COLORADO SPRINGS
1975 RESEARCH PARKWAY | SUITE 230
COLORADO SPRINGS CO 80920
PHONE: 719.300.4140
FAX: 713.965.0044

EL PASO COUNTY, COLORDO
GRANDVIEW RESERVE DISTRICT
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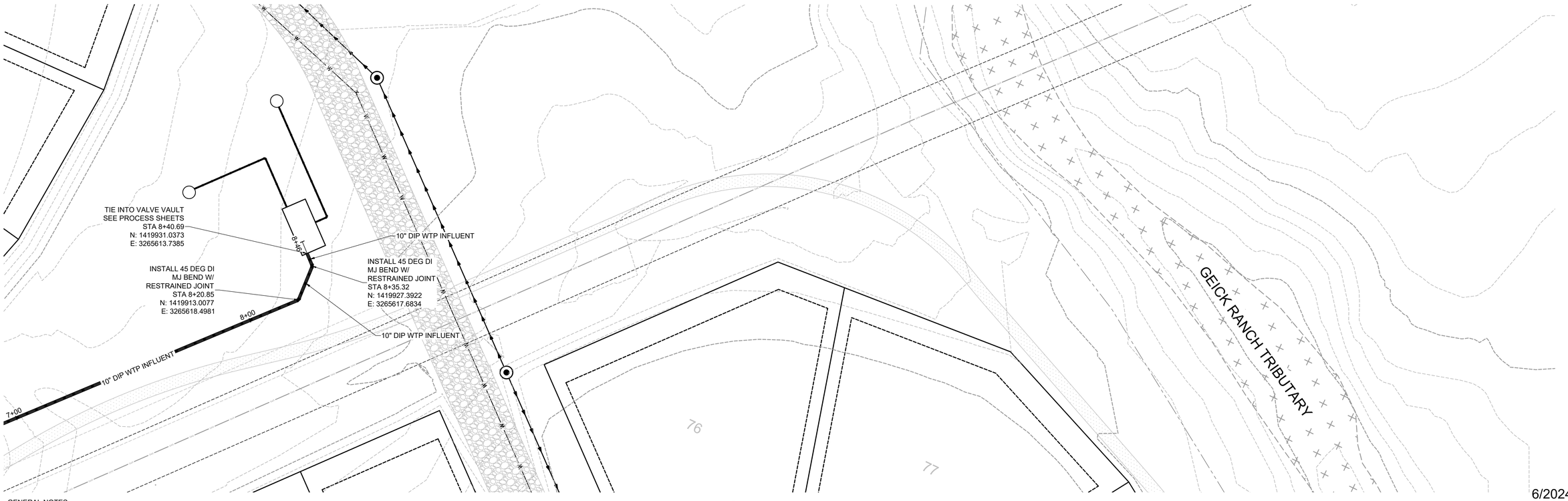
10 INCH WTP INFLUENT PLAN & PROFILE

SHEET
C106

Xrefs: xgt-1-dh01; xc-design; OUP KEY; xv-dsgn_662; xv-row-662; xv-util_662; xc-util-F1-662.10; xc-dsgn-F1-662.10; xc-row-F1-662.10; xc-design-grad; xc-row_662.08_Eastonville; xc-dsgn-662.08_Eastonville_Seg_1; xc-design-util; REVIT EXPORT_FIRST FLOOR PROCESS PLAN



6/2024

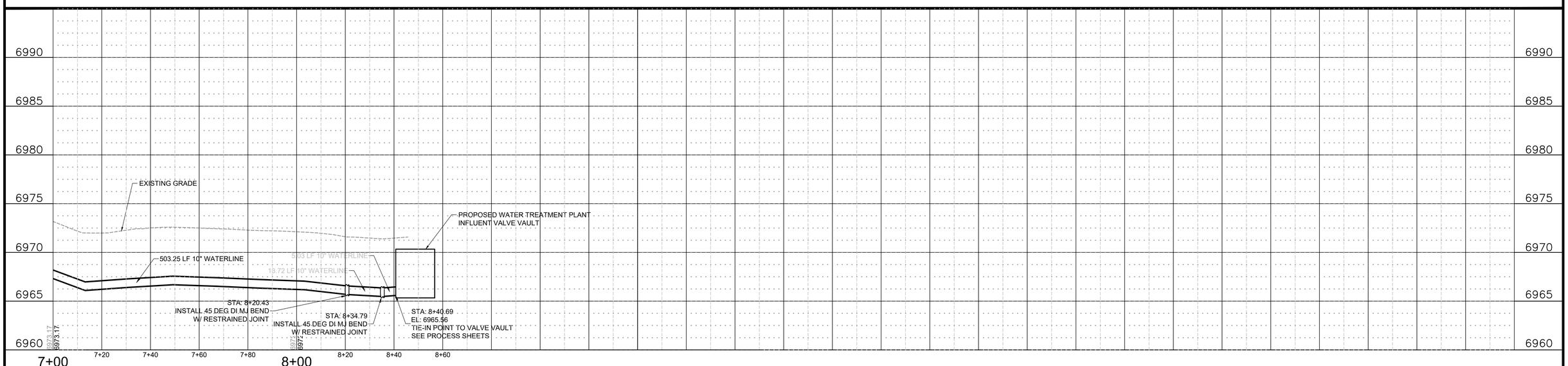
GENERAL NOTES:

1. SEE G.XXX FOR XXXX WATER AND WASTEWATER SYSTEM STANDARDS AND INSTALLATION NOTES.
2. SEE TECHNICAL SPECIFICATIONS FOR ADDITIONAL WATER AND WASTEWATER SPECIFICATIONS.

1 PLAN

NORTH

0 20
1"=20'



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HRGreen
HR GREEN - COLORADO SPRINGS
1975 RESEARCH PARKWAY | SUITE 230
COLORADO SPRINGS CO 80920
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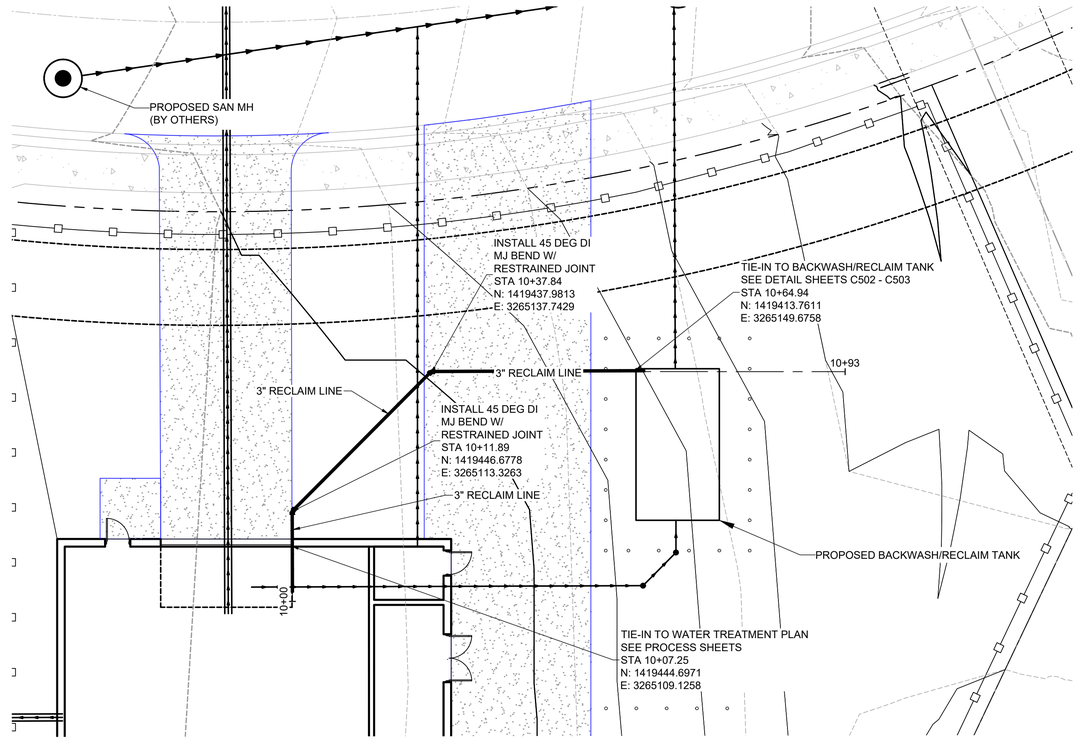
10 INCH WTP INFLUENT PLAN & PROFILE

SHEET
C107

Xrefs: xgt-1-dh01; xc-design; OUP KEY; xv-dsgn_662; xv-row-662; xv-util_662; xc-util-F1-662.10; xc-dsgn-F1-662.10; xc-row-F1-662.10; xc-design-grad; xc-row_662.08_Eastonville; xc-dsgn-662.08_Eastonville_Seg_1; xc-design-util; REVIT EXPORT_FIRST FLOOR PROCESS PLAN



6/2024

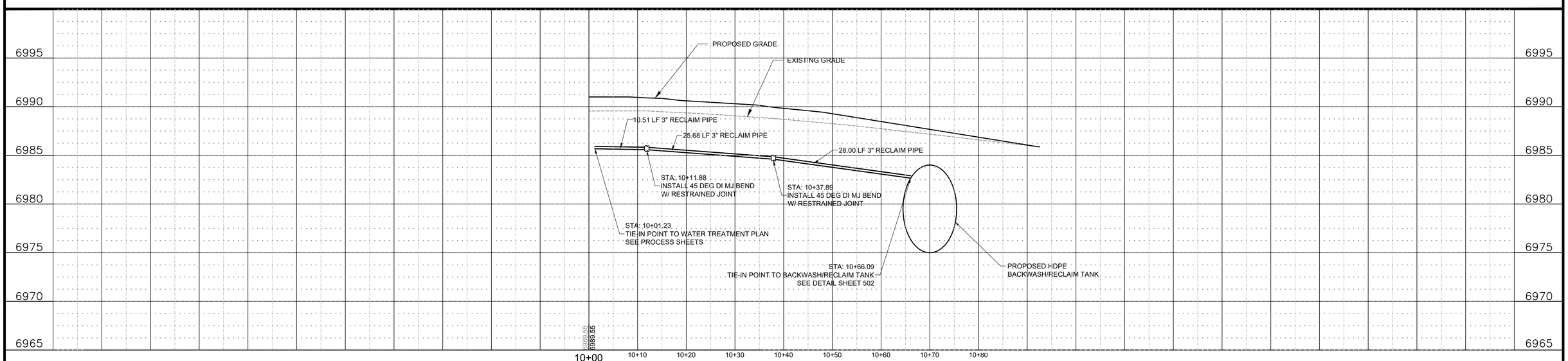
GENERAL NOTES:

1. SEE G.XXX FOR XXXX WATER AND WASTEWATER SYSTEM STANDARDS AND INSTALLATION NOTES.
2. SEE TECHNICAL SPECIFICATIONS FOR ADDITIONAL WATER AND WASTEWATER SPECIFICATIONS.

1 PLAN

NORTH

0 10
1"=10'



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HR GREEN - COLORADO SPRINGS
1975 RESEARCH PARKWAY | SUITE 230
COLORADO SPRINGS CO 80920
PHONE: 719.300.4140
FAX: 713.965.0044

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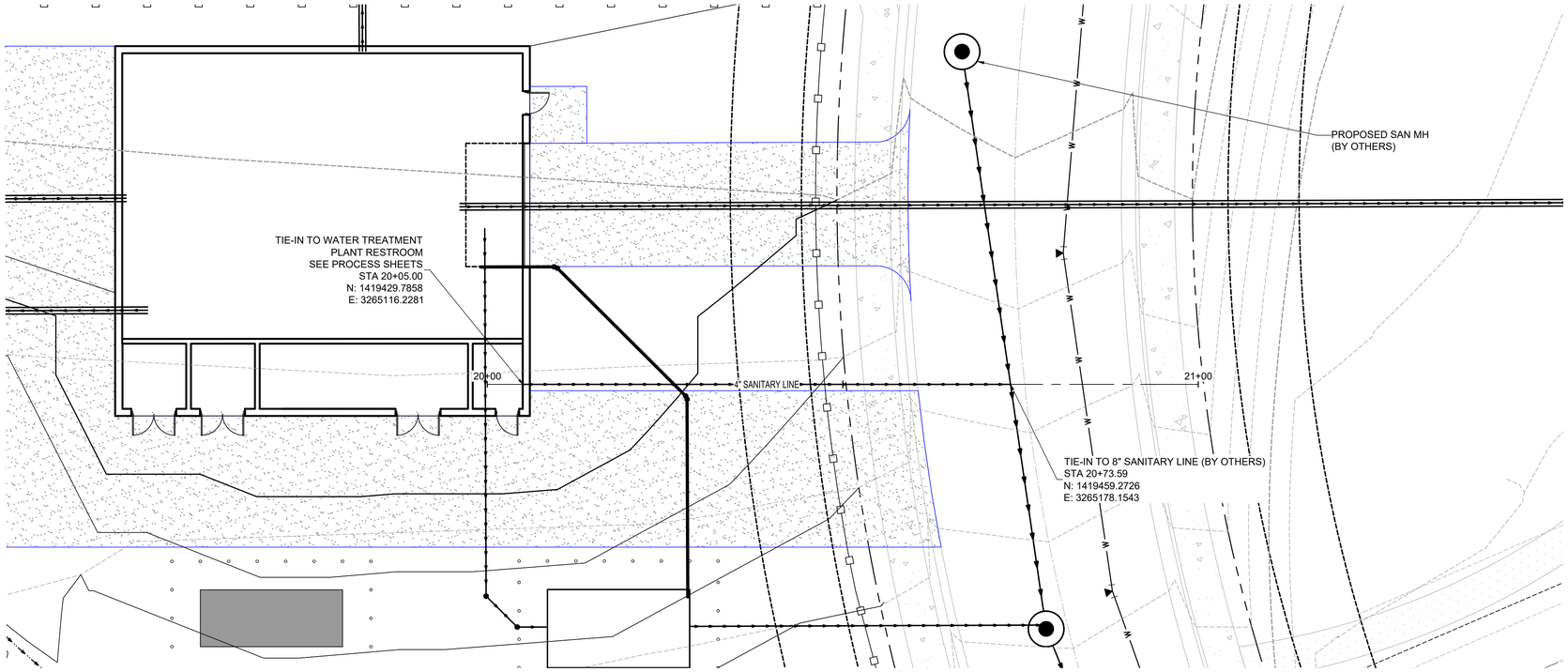
3 INCH BACKWASH RECLAIM WATER P&P

SHEET
C108

Xrefs: xgt-1-dh01; xc-design; OUP KEY; xv-dsgn_662; xv-row-662; xv-util_662; xc-util-F1-662.10; xc-dsgn-F1-662.10; xc-row-F1-662.10; xc-design-grad; xc-row_662.08_Eastonville; xc-dsgn-662.08_Eastonville_Seg_1; xc-design-util; REVIT EXPORT_FIRST FLOOR PROCESS PLAN



6/2024

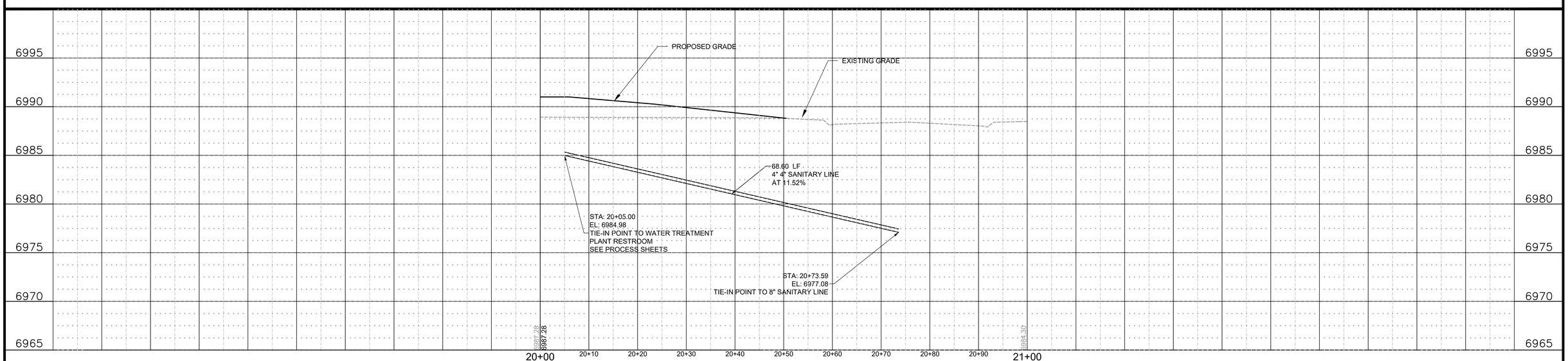
GENERAL NOTES:

1. SEE G.XXX FOR XXXX WATER AND WASTEWATER SYSTEM STANDARDS AND INSTALLATION NOTES.
2. SEE TECHNICAL SPECIFICATIONS FOR ADDITIONAL WATER AND WASTEWATER SPECIFICATIONS.

1 PLAN

NORTH

0 10
1"=10'



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1975 RESEARCH PARKWAY | SUITE 230
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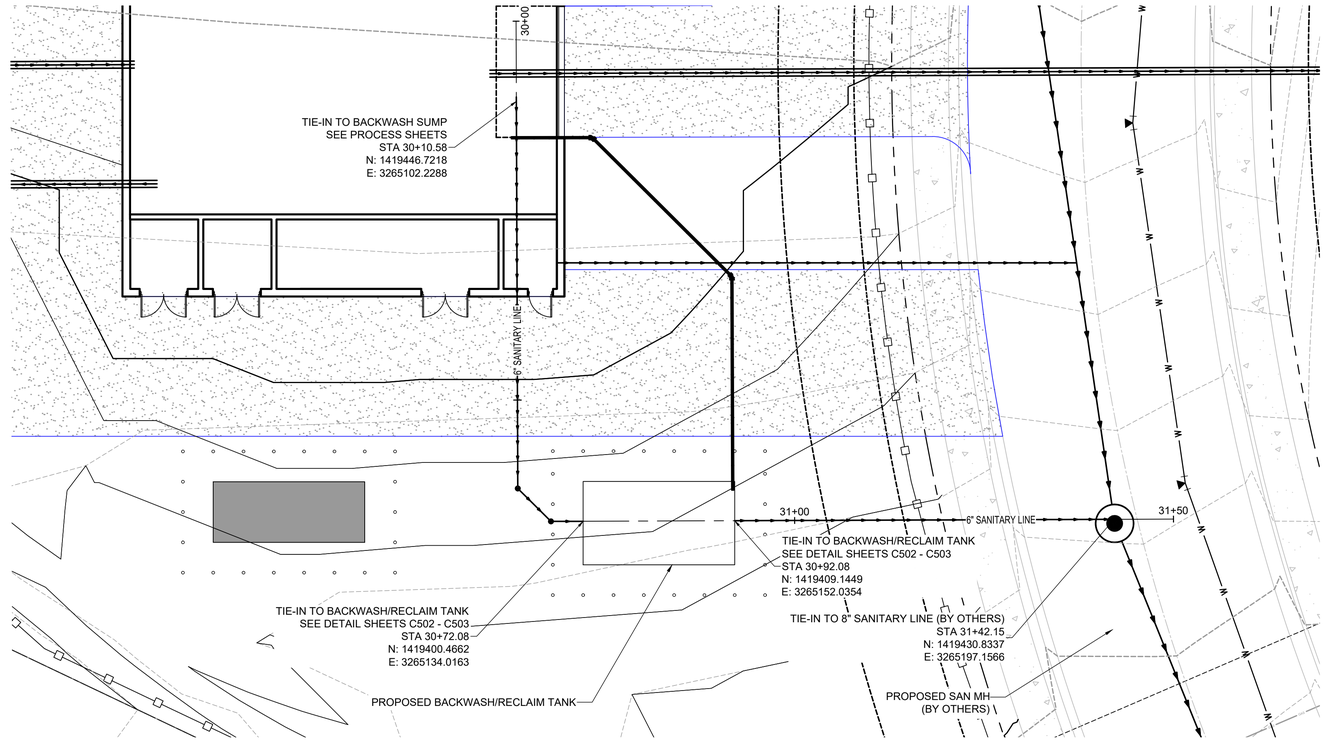
4 INCH SANITARY PIPE P&P

SHEET
C109

Xrefs: xgl-1-dh01; xc-design; OUP KEY; xv-dsgn_662; xv-row-662; xv-util_662; xc-util-F1-662.10; xc-dsgn-F1-662.10; xc-row-F1-662.10; xc-design-grad; xc-row_662.08_Eastonville; xc-dsgn-662.08_Eastonville_Seg_1; xc-design-util; REVIT EXPORT_FIRST FLOOR PROCESS PLAN



6/2024

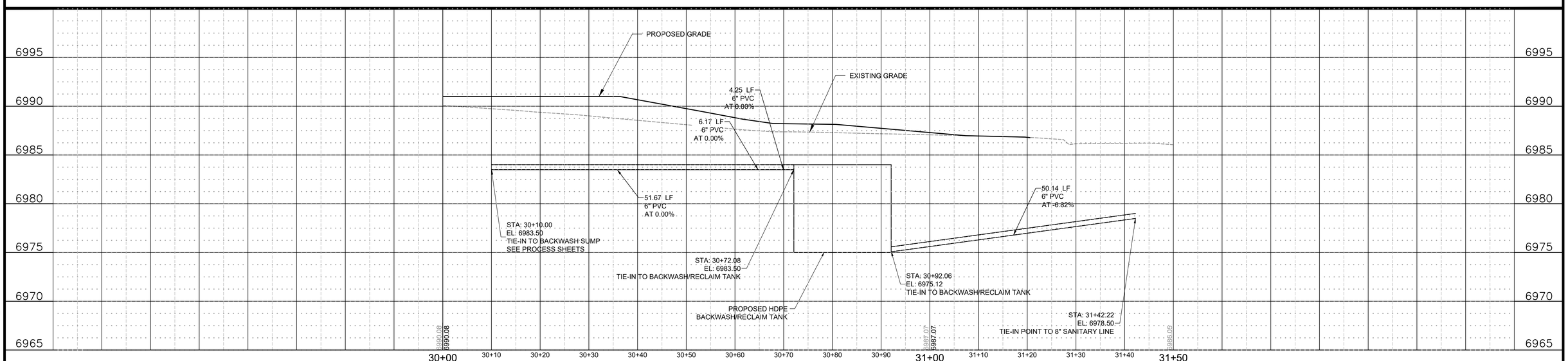
1 PLAN

NORTH

0 10
1"=10'

GENERAL NOTES:

1. SEE G.XXX FOR XXXX WATER AND WASTEWATER SYSTEM STANDARDS AND INSTALLATION NOTES.
2. SEE TECHNICAL SPECIFICATIONS FOR ADDITIONAL WATER AND WASTEWATER SPECIFICATIONS.



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COLORADO SPRINGS CO 80920
PHONE: 719.300.4140
FAX: 713.965.0044

EL PASO COUNTY, COLORDO
GRANDVIEW RESERVE DISTRICT
WTP WELL WATER COLLECTION
D.R. HORTON
COLORADO

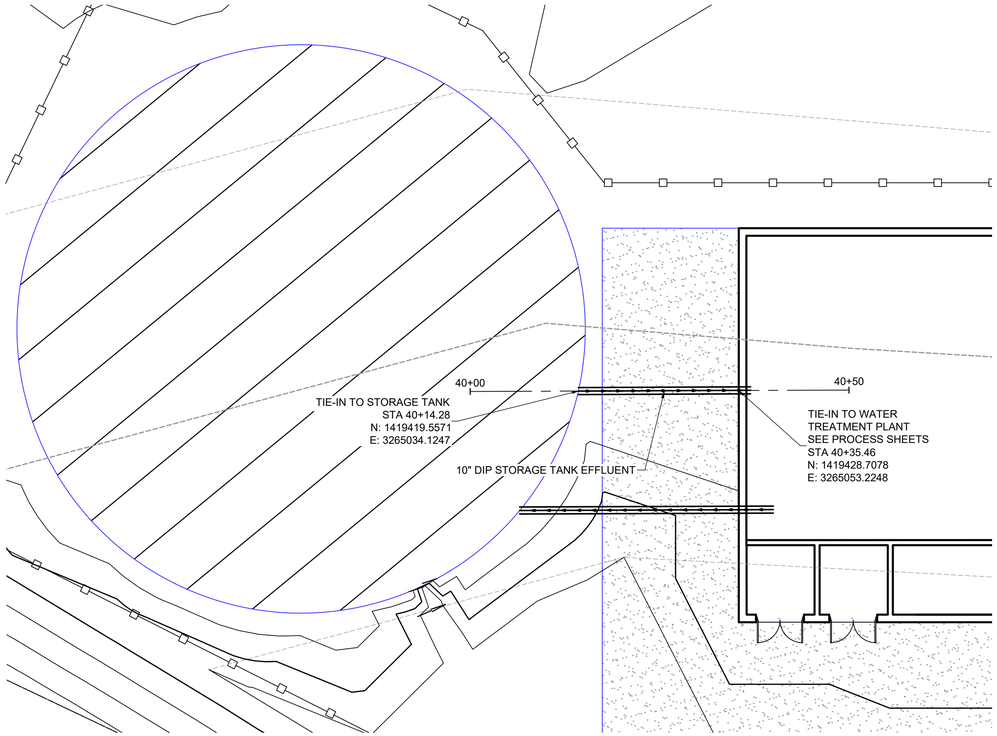
D·R·HORTON America's Builder

CIVIL

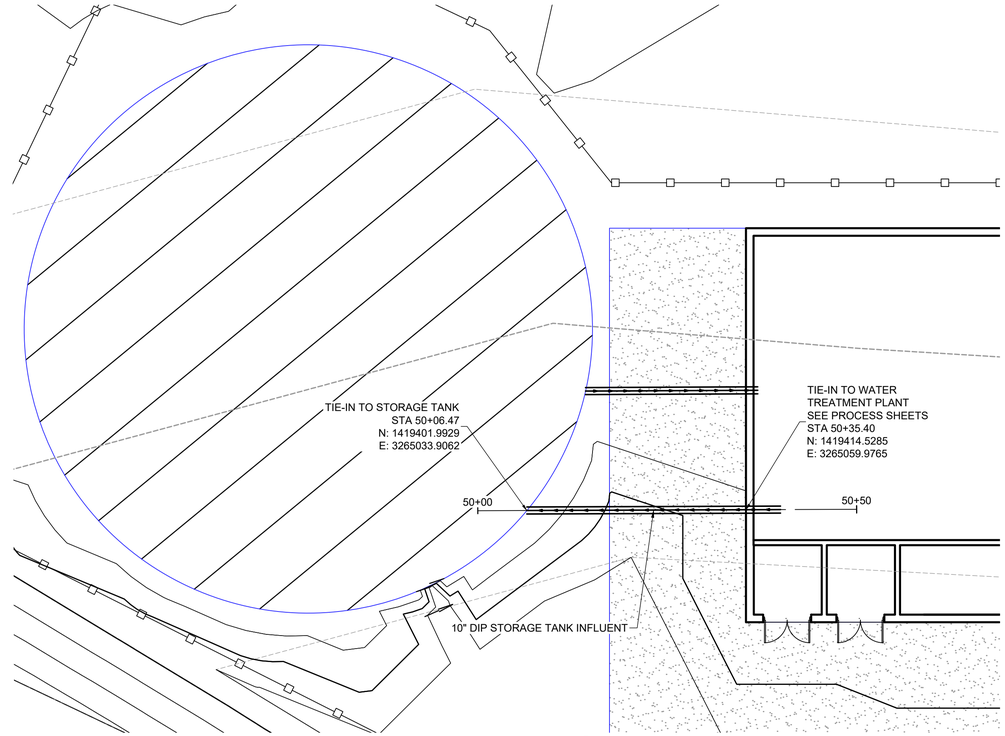
6 INCH SANITARY PIPE P&P

SHEET
C110

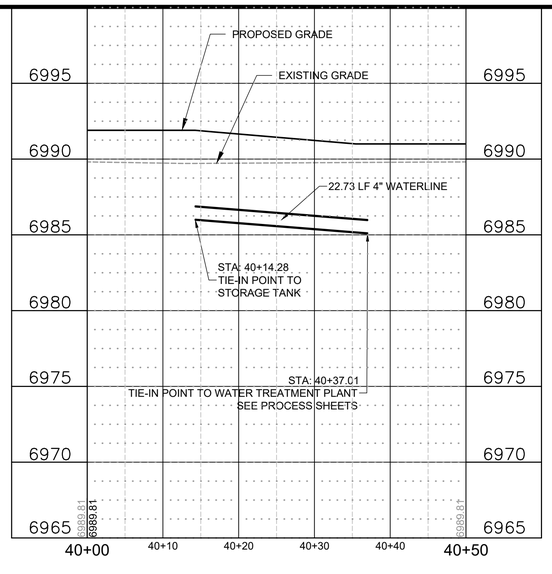
Xrefs: xgl-1-dth01; xc-design; OUP KEY; xv-dsgn_662; xv-row-662; xv-util_662; xc-util-F1-662.10; xc-dsgn-F1-662.10; xc-row-F1-662.10; xc-design-grad; xc-row_662.08_Eastonville; xc-dsgn-662.08_Eastonville_Seg_1; xc-design-util; REVIT EXPORT_FIRST FLOOR PROCESS PLAN

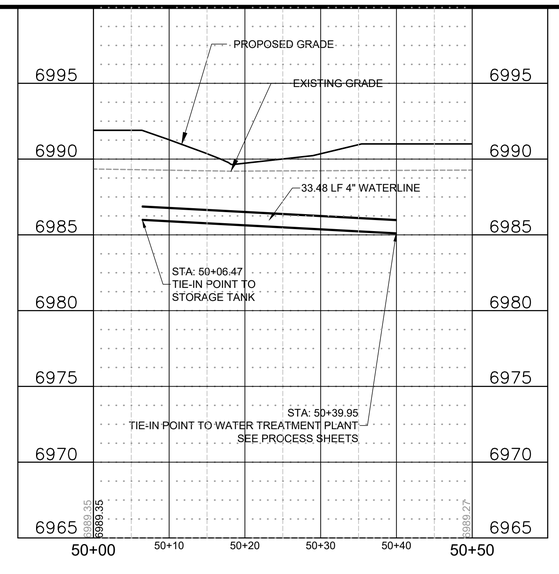


1 PLAN



1 PLAN





6/2024

GENERAL NOTES:

1. SEE G.XXX FOR XXXX WATER AND WASTEWATER SYSTEM STANDARDS AND INSTALLATION NOTES.
2. SEE TECHNICAL SPECIFICATIONS FOR ADDITIONAL WATER AND WASTEWATER SPECIFICATIONS.

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BAR IS ONE INCH ON OFFICIAL DRAWINGS. 0 1"
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COLORADO SPRINGS CO 80920
PHONE: 719.300.4140
FAX: 713.965.0044

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WTP WELL WATER COLLECTION
D.R. HORTON
COLORADO

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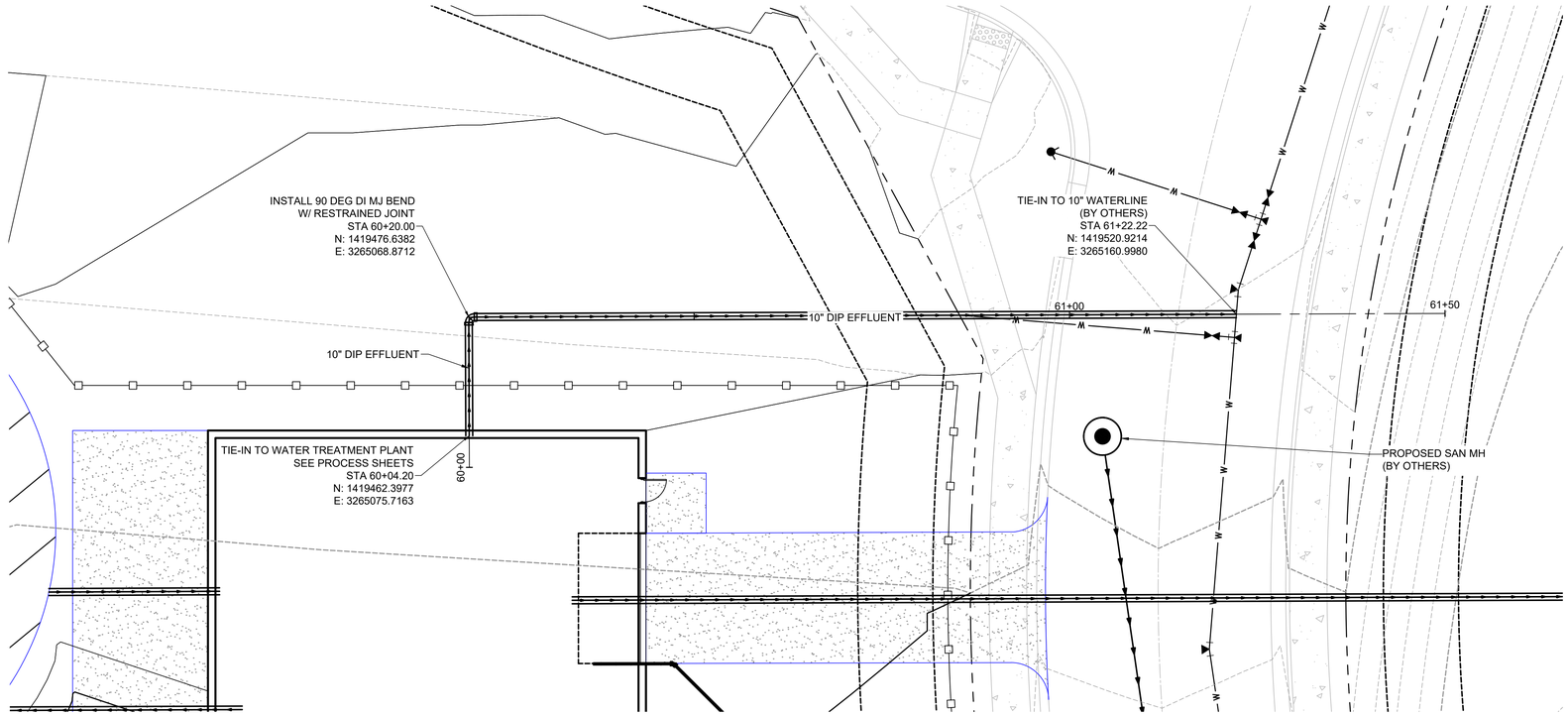
CIVIL

10 INCH STORAGE TANK PIPES P&P

SHEET
C111

Xrefs: xg1-1-dh01; xc-design; OUP KEY; xv-dsgn_662; xv-row-662; xv-util_662; xc-util-F1-662.10; xc-dsgn-F1-662.10; xc-row-F1-662.10; xc-design-grod; xc-row_662.08_Eastonville; xc-dsgn-662.08_Eastonville_Seg_1; xc-design-util; REVIT EXPORT_FIRST FLOOR PROCESS PLAN



GENERAL NOTES:

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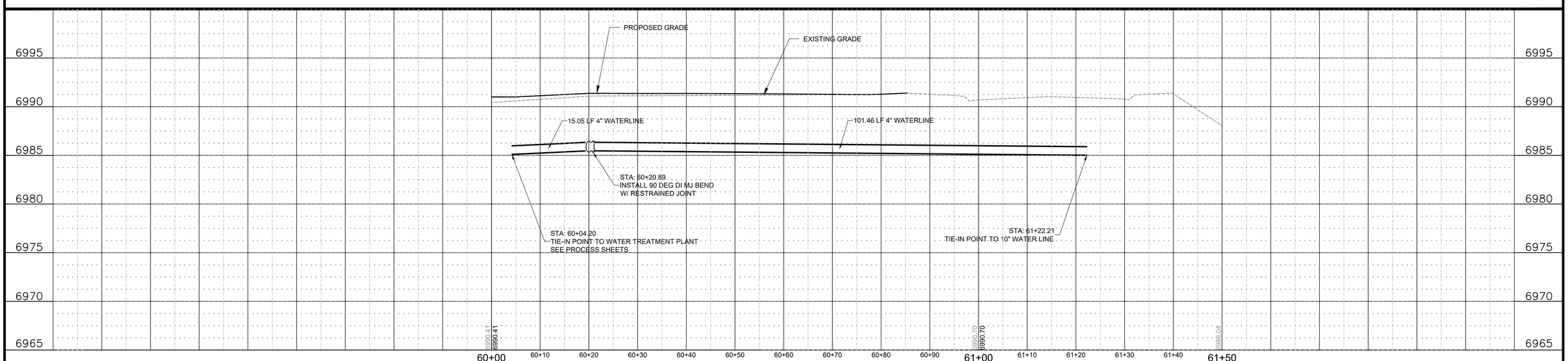
1 PLAN

NORTH

0 10
1"=10'

6/2024



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COLORADO SPRINGS CO 80920
PHONE: 719.300.4140
FAX: 713.965.0044

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WTP WELL WATER COLLECTION
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COLORADO

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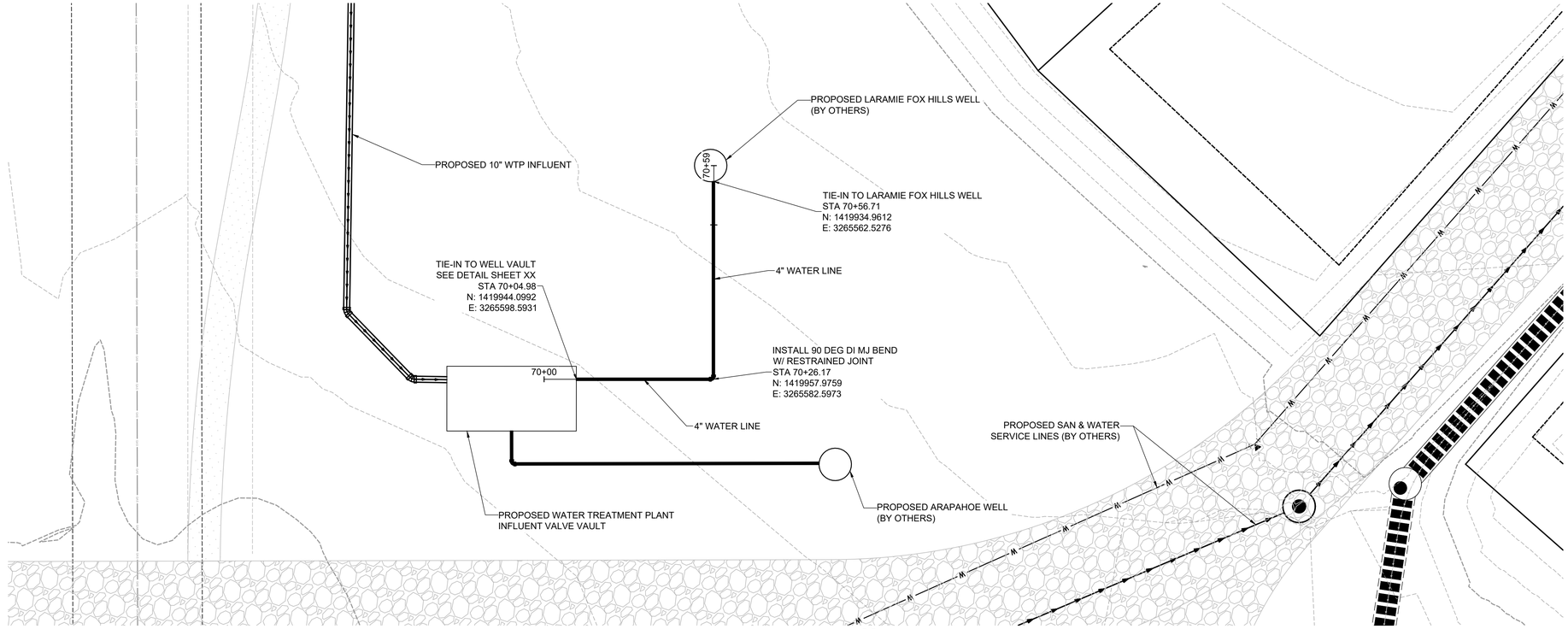
CIVIL
10 INCH EFFLUENT TO WATER SERVICE PIPE P&P

SHEET
C112

Xrefs: xgl-1-dh01; xc-design; OUP KEY; xv-dsgn_662; xv-row-662; xv-util_662; xc-util-F1-662.10; xc-dsgn-F1-662.10; xc-row-F1-662.10; xc-design-grad; xc-row_662.08_Eastonville; xc-dsgn-662.08_Eastonville_Seg_1; xc-design-util; REVIT EXPORT_FIRST FLOOR PROCESS PLAN



6/2024

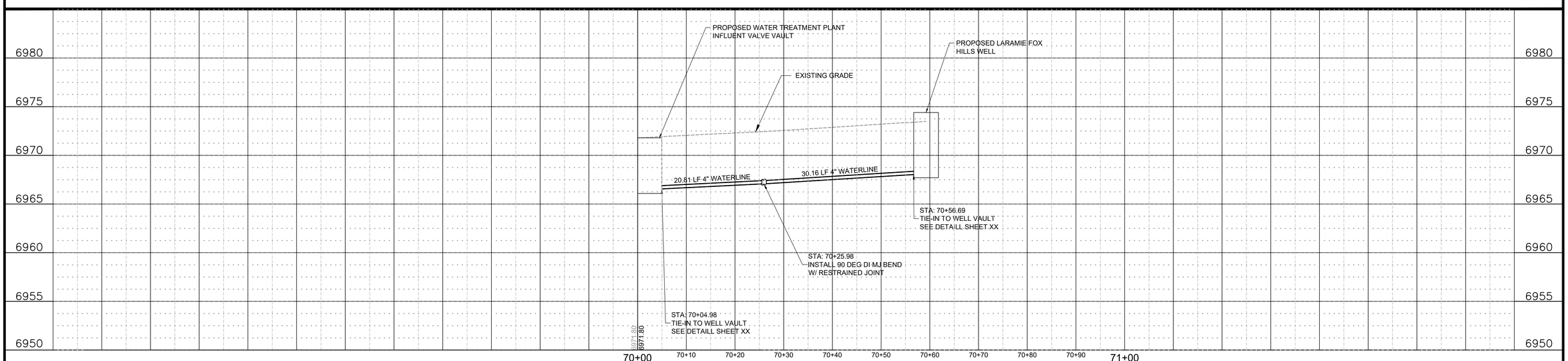
GENERAL NOTES:

1. SEE G.XXX FOR XXXX WATER AND WASTEWATER SYSTEM STANDARDS AND INSTALLATION NOTES.
2. SEE TECHNICAL SPECIFICATIONS FOR ADDITIONAL WATER AND WASTEWATER SPECIFICATIONS.

1 PLAN

NORTH

0 10
1"=10'



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WTP WELL WATER COLLECTION
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COLORADO

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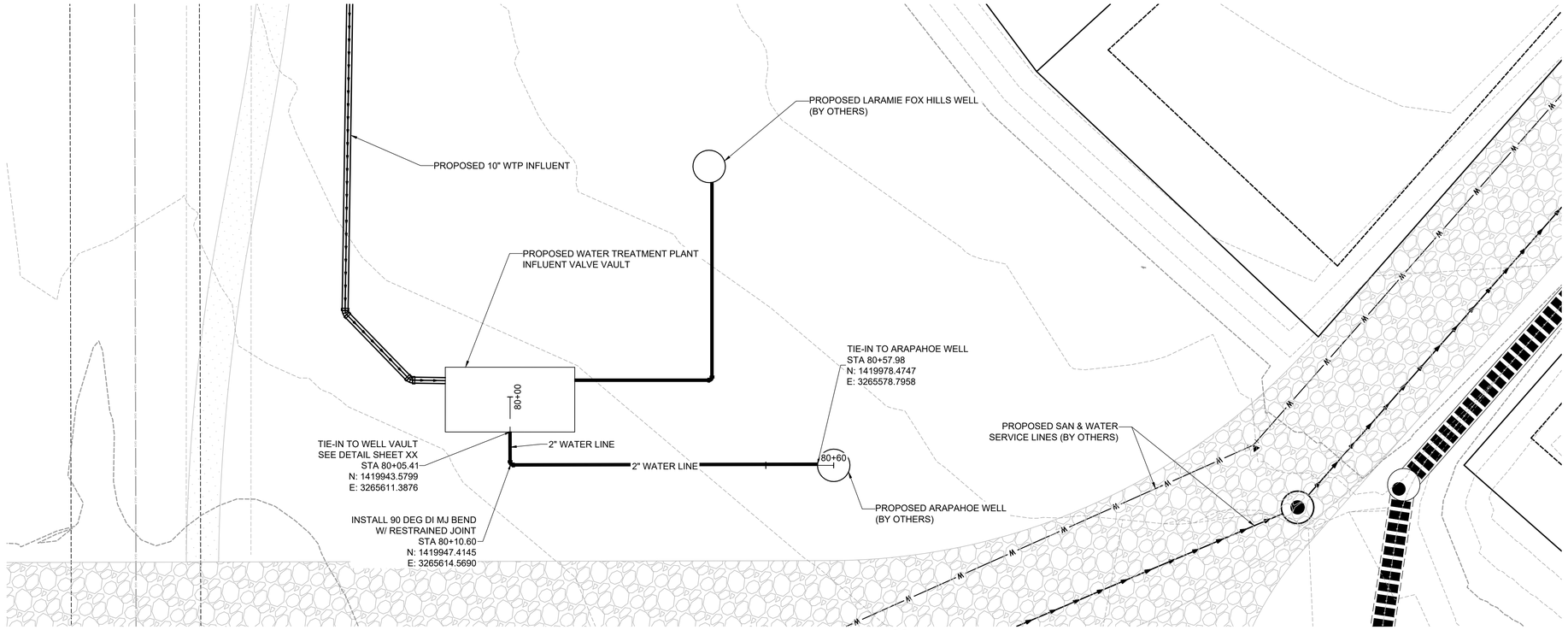
CIVIL
4 INCH LARAMIE FOX HILLS WELL WATER P&P

SHEET
C113

Xrefs: xgt-1-dh01; xc-design; OUP KEY; xv-dsgn_662; xv-row-662; xv-util_662; xc-util-F1-662.10; xc-dsgn-F1-662.10; xc-row-F1-662.10; xc-design-grad; xc-row_662.08_Eastonville; xc-dsgn-662.08_Eastonville_Seg_1; xc-design-util; REVIT EXPORT_FIRST FLOOR PROCESS PLAN



GENERAL NOTES:

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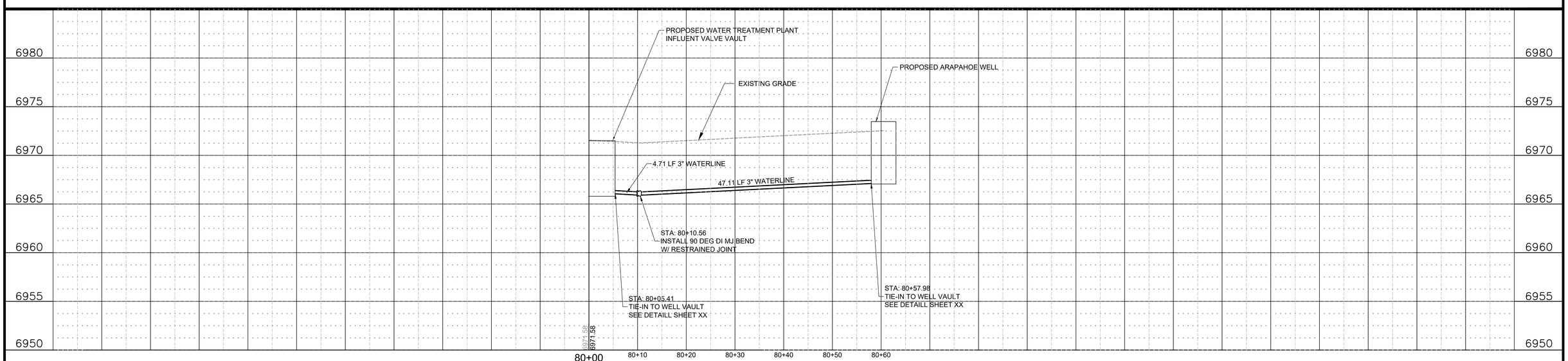
1 PLAN

NORTH

0 10
1"=10'

6/2024



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APPROVED: JAS JOB NUMBER:
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0 1"
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CIVIL

2 INCH ARAPAHOE WELL WATER P&P

SHEET
C114

Xrefs: xgt-1-dh01; xc-design; OUP KEY; xv-dsgn_662; xv-row-662; xv-util_662; xc-util-F1-662.10; xc-dsgn-F1-662.10; xc-row-F1-662.10; xc-design-grad; xc-row_662.08_Eastonville; xc-dsgn-662.08_Eastonville_Seg_1; xc-design-util; REVIT EXPORT_FIRST FLOOR PROCESS PLAN