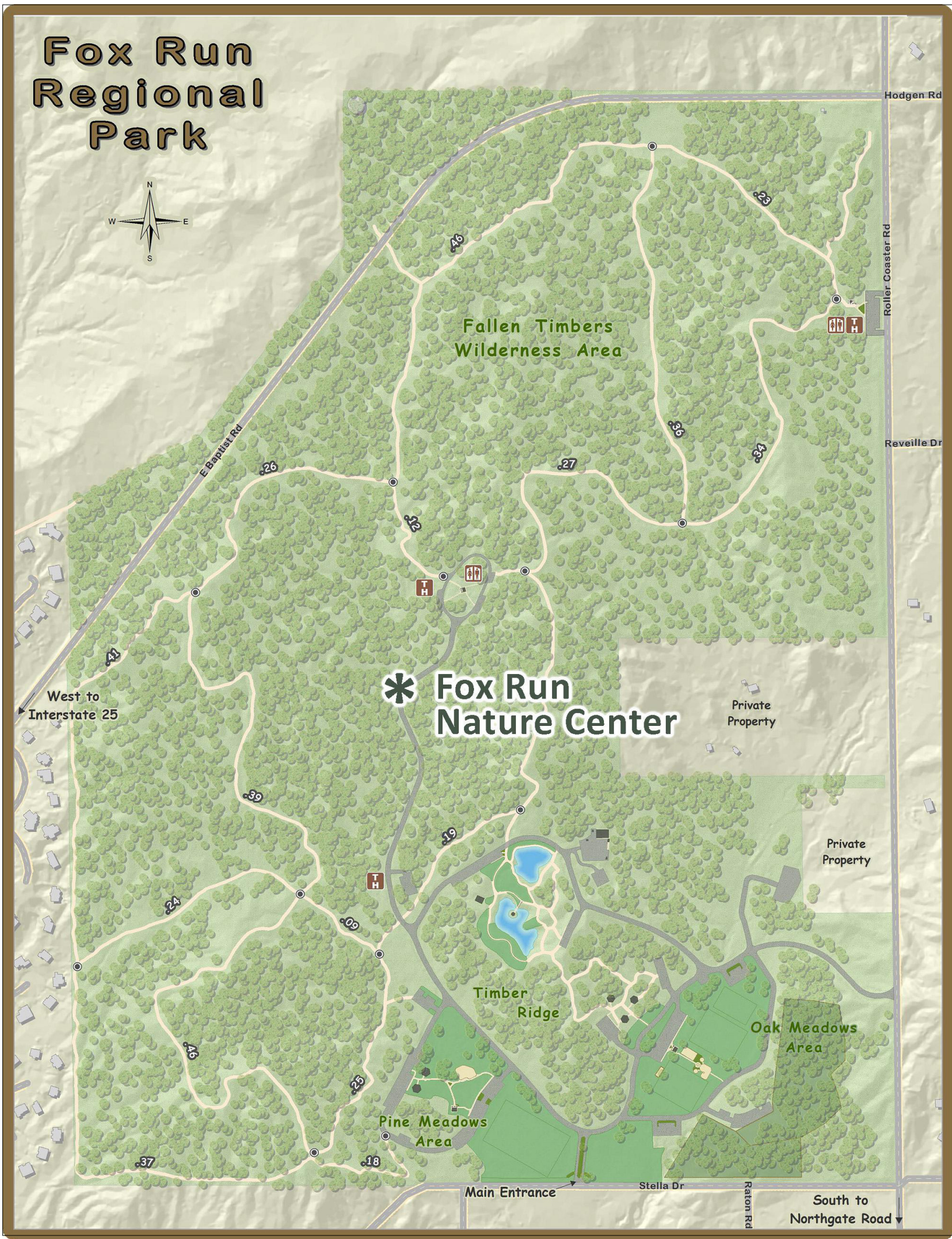
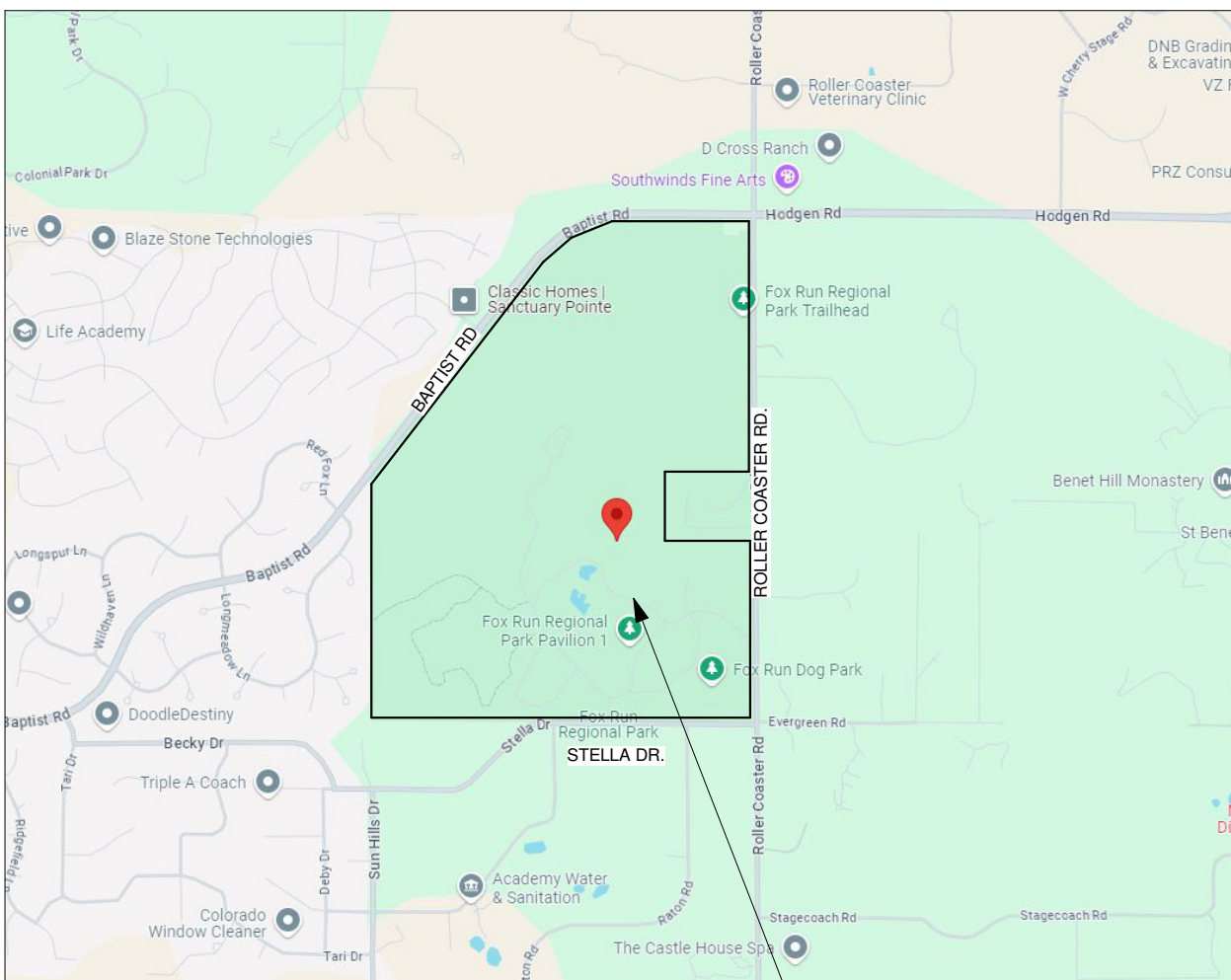
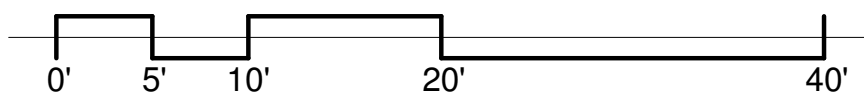


FOX RUN NATURE CENTER
FOX RUN REGIONAL PARK, EL PASO COUNTY, COLORADO



PARK MAP

SCALE: NTS



VICINITY MAP

SCALE: NTS



PROJECT DATA

OWNER: EL PASO COUNTY, 200 S CASCADE AVE STE 150, COLORADO SPRINGS CO, 80903, 719-520-7529, JASON MEYER, TODD MARTS
APPLICANT: BASELINE CORPORATION, 1048 ELKTON DRIVE, COLORADO SPRINGS, CO 80907, 719 531-6200, STEVE BAGGS
PROJECT ADDRESS: 2110 STELLA DR, COLORADO SPRINGS, COLORADO 809021
TAX SCHEDULE NUMBER: 6100000297
LEGAL DESCRIPTION: NW4 & SW4, EX NE4SW4 OF SEC 28-11-66 E2SE4, S2SE4NE4, THAT PART OF N2SE4NE4 OF SEC 29 LY SELY OF A STRAIGHT LN CONNECTING SW4 AND NE COR OF SD N2 SEC 29-11-66
LOT SIZE: 389.5 ACRES
ZONING: RR-5
PROJECT DESCRIPTION: NEW SINGLE STORY, TWO BUILDING NATURE CENTER WITH A VIEWING TOWER AND CANOPY WALK. THE NON-COMBUSTIBLE CONSTRUCTION BUILDING WITHA MULT-PURPOSE ROOM, EXHIBIT SPACE, OUTDOOR DECK, OFFICES, STORAGE AND RESTROOMS
TOTAL BUILDING AREA: 8,245 SQFT WITH A 4,565 SQFT OUTDOOR PATIO
NUMBER OF LEVELS: 1 STORY WITH CANOPY WALK AND VIEWING PLATFORM
BUILDING HEIGHT: 75'-0"
PARKING CALCULATIONS: PARKING SPACES 39 SPACES, ACCESSIBLE PARKING SPACES 2 SPACES, TOTAL SPACES 41 SPACES, BUS PARKING 3 SPACES

CIVIL SHEET INDEX

- C1 EXISTING CONDITIONS & DEMO PLAN I
- C2 EXISTING CONDITIONS & DEMO PLAN II
- C3 SITE PLAN
- C4 STRIPING PLAN
- C5 DRIVEWAY & PARKING AREA GRADING PLAN
- C6 BUILDING GRADING PLAN
- C7 ROAD RECLAMATION GRADING PLAN
- C8 WALL PLAN AND PROFILE I
- C9 WALL PLAN AND PROFILE II
- C10 WALL PLAN AND PROFILE III
- C11 WALL PLAN AND PROFILE IV
- C12 UTILITY SERVICES PLAN
- C13 OFF-SITE WATER SYSTEM PLAN
- C14 ON-SITE WATER SYSTEM PLAN
- C15 OVERALL STORM SYSTEM PLAN
- C16 ROOF DRAIN AND PATIO PLAN AND PROFILE
- C17 POND PLAN AND PROFILE
- C18 DETAILS
- G1-4 OWTS PLANS

NOTE: THE OWNER AGREES ON BEHALF OF HIM/HERSELF AND ANY DEVELOPER OR BUILDING SUCCESSORS AND ASSIGNEES THAT SUBDIVIDER AND/OR SUCCESSORS AND ASSIGNEES SHALL BE REQUIRED TO PAY TRAFFIC IMPACT FEES IN ACCORDANCE WITH THE EL PASO COUNTY ROAD IMPACT FEE PROGRAM RESOLUTION (RESOLUTION NO. 19-471), OR ANY AMENDMENTS THERETO, AT OR PRIOR TO THE TIME OF BUILDING PERMIT SUBMITTALS. THE FEE OBLIGATION, IF NOT PAID AT FINAL PLAT RECORDING, SHALL BE DOCUMENTED ON ALL SALES DOCUMENTS AND ON PLAT NOTES TO ENSURE THAT A TITLE SEARCH WOULD FIND THE FEE OBLIGATION BEFORE SALE OF THE PROPERTY.

PROJECT TEAM

OWNER: El Paso County, 200 S Cascade Ave Ste 150, Colorado Springs CO, 80903, 719-520-7529, Jason Meyer, Todd Marts
ARCHITECT: TDG Architecture, 201 E. Las Animas Street, Ste. 113, Colorado Springs, CO 80903, 719-623-5641, Sharon Allen, Mark Tremmel
LANDSCAPE ARCHITECT: Tapis Associates, 400 Marine Street, Terrace Level, Colorado Springs, CO 80919, 719 593-1540, Priscilla Marbaker
STRUCTURAL ENGINEER: RMG Engineers, 2910 Austin Bluffs Parkway, Colorado Springs, CO 80918, 719 548-0600, Mike Thompson
GREEN INITIATIVES, MECHANICAL, ELECTRICAL, ENGINEER: PCD Engineering, Inc., 4303 E. Brighton Boulevard, Suite #3, Denver, CO 80216, 303 733-3078, Jacob Goodman, LEEDap, BEMP, Alex Pontasch, Walter Shoup
GEOTECHNICAL ENGINEERING: RMG Engineers, 2910 Austin Bluffs Parkway, Colorado Springs, CO 80918, 719 548-0600, Kelli Zigler, PE

EXHIBIT DESIGNER: Studio Tectonic, 400 Marine Street, Carriage House, Boulder, CO 80302, 720 398-3030, Seth Frankel, Zach Mosely
CIVIL ENGINEER: Baseline Engineering Corporation, 112 N. Rubey Drive, #210, Golden, CO 80403, 303 940-9966, Steven G. Baggs, PE, Alan Lunsford
COST ESTIMATOR: Colarelli Construction, 111 S. Tejon St., Suite 112, Colorado Springs, CO 80903, 719 475-7997, Mike Senger
TRAFFIC ENGINEER: SM Rocha, LLC, 8703 Yates Drive, Suite 210, Westminster, CO 80031, 719 203-6639, Mike Rocha, TOPS, TSOS, Brandon Wilson

REVISIONS		
DATE	FOR	

NOT FOR CONSTRUCTION

TDG Architecture

201 East Las Animas, Suite 113, Colorado Springs, CO 80903, 719-623-5641 (Phone), 719-623-5643 (Fax)

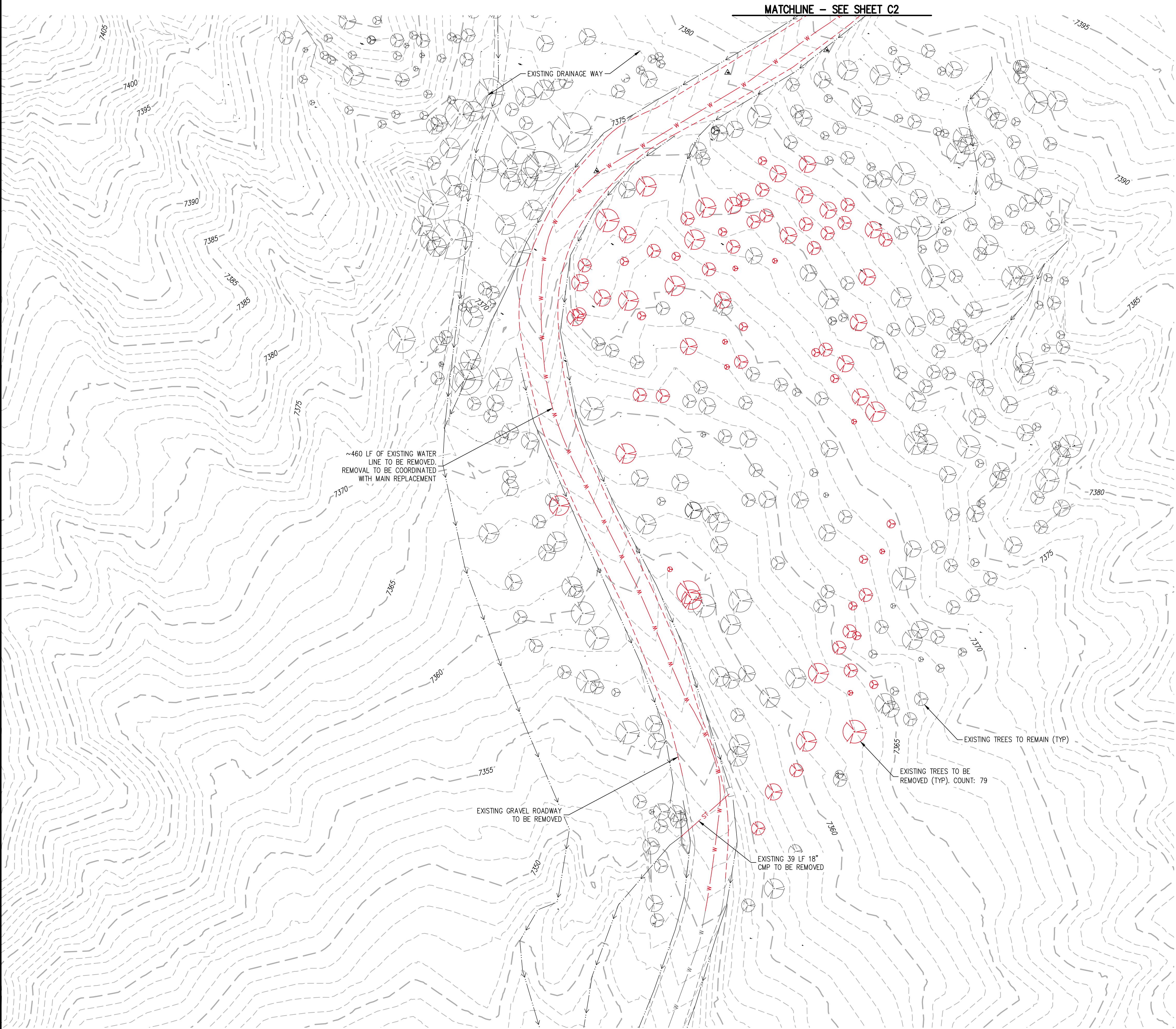
FOX RUN NATURE CENTER

Fox Run Regional Park, 2110 Stella Drive, Colorado Springs, CO 80921

DEVELOPMENT PLAN - COVER SHEET

DATE: 10/24/24, DRAWN BY: tdg, CHECKED BY: TDG, PROJECT NO.: 22164, SHEET: DP-CS, 1 OF XX

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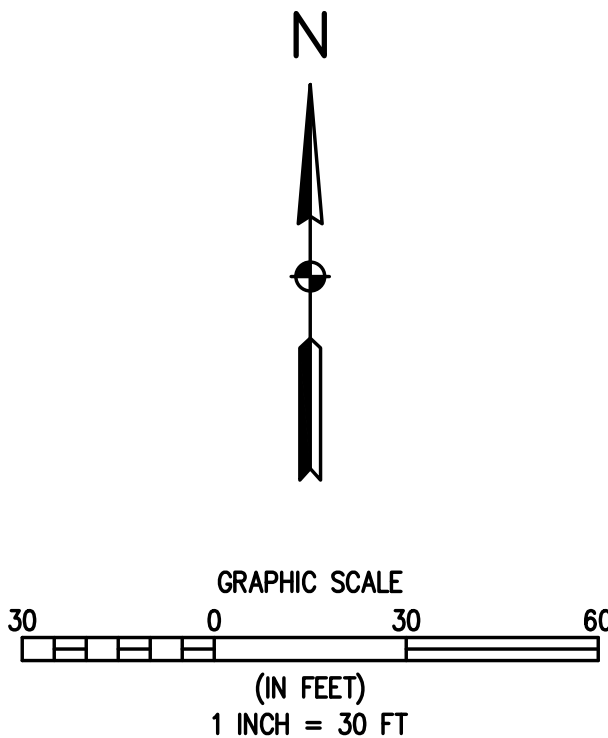


LEGEND

EXISTING LINETYPES		DEMO LINETYPES		
5280				MAJOR CONTOUR (5' INTERVAL)
81				MINOR CONTOUR (1' INTERVAL)
W	W			EDGE OF GRAVEL
		W	W	WATER LINE
EXISTING SYMBOLS	DEMO SYMBOLS			
		CONIFEROUS TREE		

DEMOLITION NOTES:

1. IN GENERAL, DEMOLITION ITEMS INCLUDE BUT ARE NOT LIMITED TO TREES, GRAVEL ROAD, STORM SEWER CULVERTS, WATER MAIN, ETC. REMOVAL ITEMS ARE SHOWN ON THE DEMOLITION PLAN.
2. CONTRACTOR TO COORDINATE WITH PROJECT TEAM AND EL PASO COUNTY STAFF PRIOR TO REMOVAL OF ANY TREES. THE TREES SHOWN ARE PER FIELD SURVEY FOR TREES 4' AND LARGER. SO ADDITIONAL TREES MAY BE ENCOUNTERED THAT NEED TO BE PROTECTED OR REMOVED. TREE REMOVAL WILL ADHERE TO THE TREE PROTECTION PLAN TO AVOID REMOVAL OF OR DAMAGE TO TREES THAT ARE TO REMAIN. TREES ARE TO BE DISPOSED OF AT AN APPROVED OFFSITE LOCATION UNLESS OTHERWISE DIRECTED BY EL PASO COUNTY PARKS PERSONNEL.
3. REMOVAL OF THE WATER MAIN SHALL BE IN COMPLIANCE WITH ALL REQUIREMENTS OF THE DONALA WATER & SANITATION DISTRICT. REMOVAL OF THE EXISTING WATER MAIN IN ACCORDANCE WITH THE APPROVED PLANS WILL REQUIRE A TEMPORARY WATER SERVICE PLAN TO MAINTAIN THE WATER SERVICE FOR THE PORTIONS OF THE FOX RUN PARK THAT ALSO UTILIZE THIS MAIN.
4. DISPOSAL OF REMOVAL ITEMS SHALL BE TO AN APPROVED OFFSITE LOCATION UNLESS OTHERWISE DIRECTED BY EL PASO COUNTY PERSONNEL.



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AUL

DRAWN BY
AUL

CHECKED BY
SGB

DATE
06/26/2024

PREPARED BY

REVISION DESCRIPTION
60 % DESIGN SET

EL PASO COUNTY
FOX RUN NATURE CENTER
EXISTING CONDITIONS & DEMO PLAN 1

FOR AND ON BEHALF OF
BASELINE CORPORATION

INITIAL SUBMITTAL
XX/XX/XX

DRAWING SIZE
24" X 36"

SURVEY FIRM
BASELINE

SURVEY DATE
10/31/2023

JOB NO.
C035069

DRAWING NAME
35069 Demo Plan.dwg

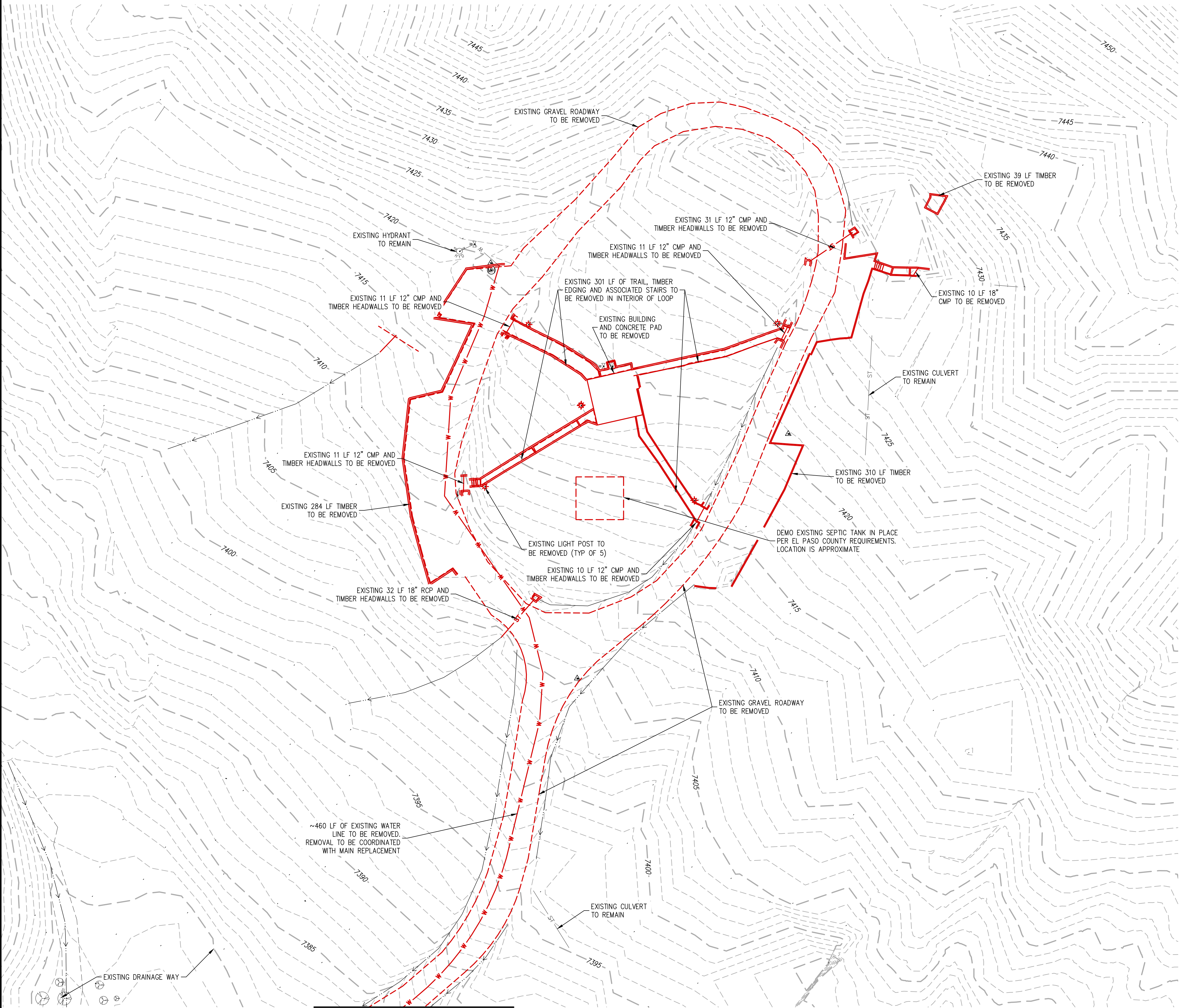
SHEET
1 OF 16

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C1

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MATCHLINE - SEE SHEET C1

LEGEND

EXISTING LINETYPES

5280
81

W W

EXISTING SYMBOLS



DEMO LINETYPES

5280
81

W W

DEMO SYMBOLS

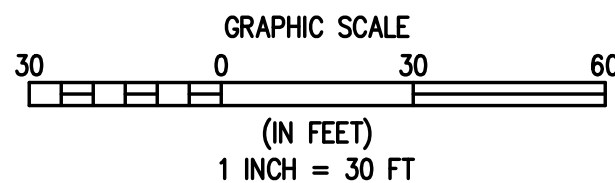


CONIFEROUS TREE

MAJOR CONTOUR (5' INTERVAL)
MINOR CONTOUR (1' INTERVAL)
EDGE OF GRAVEL
WATER LINE

DEMOLITION NOTES:

1. IN GENERAL, DEMOLITION ITEMS INCLUDE BUT ARE NOT LIMITED TO TREES, GRAVEL ROAD, STORM SEWER CULVERTS, WATER MAIN, ETC. REMOVAL ITEMS ARE SHOWN ON THE DEMOLITION PLAN.
2. CONTRACTOR TO COORDINATE WITH PROJECT TEAM AND EL PASO COUNTY STAFF PRIOR TO REMOVAL OF ANY TREES. THE TREES SHOWN ARE PER FIELD SURVEY FOR TREES 4' AND LARGER. SO ADDITIONAL TREES MAY BE ENCOUNTERED THAT NEED TO BE PROTECTED OR REMOVED. TREE REMOVAL WILL ADHERE TO THE TREE PROTECTION PLAN TO AVOID REMOVAL OF OR DAMAGE TO TREES THAT ARE TO REMAIN. TREES ARE TO BE DISPOSED OF AT AN APPROVED OFFSITE LOCATION UNLESS OTHERWISE DIRECTED BY EL PASO COUNTY PARKS PERSONNEL.
3. REMOVAL OF THE WATER MAIN SHALL BE IN COMPLIANCE WITH ALL REQUIREMENTS OF THE DONALA WATER & SANITATION DISTRICT. REMOVAL OF THE EXISTING WATER MAIN IN ACCORDANCE WITH THE APPROVED PLANS WILL REQUIRE A TEMPORARY WATER SERVICE PLAN TO MAINTAIN THE WATER SERVICE FOR THE PORTIONS OF THE FOX RUN PARK THAT ALSO UTILIZE THIS MAIN.
4. DISPOSAL OF REMOVAL ITEMS SHALL BE TO AN APPROVED OFFSITE LOCATION UNLESS OTHERWISE DIRECTED BY EL PASO COUNTY PERSONNEL.



EL PASO COUNTY PARKS

FOX RUN NATURE CENTER

EXISTING CONDITIONS & DEMO PLAN II

EL PASO COUNTY

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FOR AND ON BEHALF OF
BASELINE CORPORATION

INITIAL SUBMITTAL XX/XX/XX

DRAWING SIZE 24" X 36"

SURVEY FIRM BASELINE SURVEY DATE 10/31/2023

JOB NO. C035069

DRAWING NAME 35069 Demo Plan.dwg

SHEET 2 OF 16

C2

DESIGNED BY AJL
DRAWN BY AJL
CHECKED BY SGB

DATE 06/26/2024
PREPARED BY

REVISION DESCRIPTION
60 % DESIGN SET

60 % DESIGN SET

EL PASO COUNTY

FOX RUN NATURE CENTER

EXISTING CONDITIONS & DEMO PLAN II

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FOR AND ON BEHALF OF
BASELINE CORPORATION

INITIAL SUBMITTAL XX/XX/XX

DRAWING SIZE 24" X 36"

SURVEY FIRM BASELINE SURVEY DATE 10/31/2023

JOB NO. C035069

DRAWING NAME 35069 Demo Plan.dwg

SHEET 2 OF 16

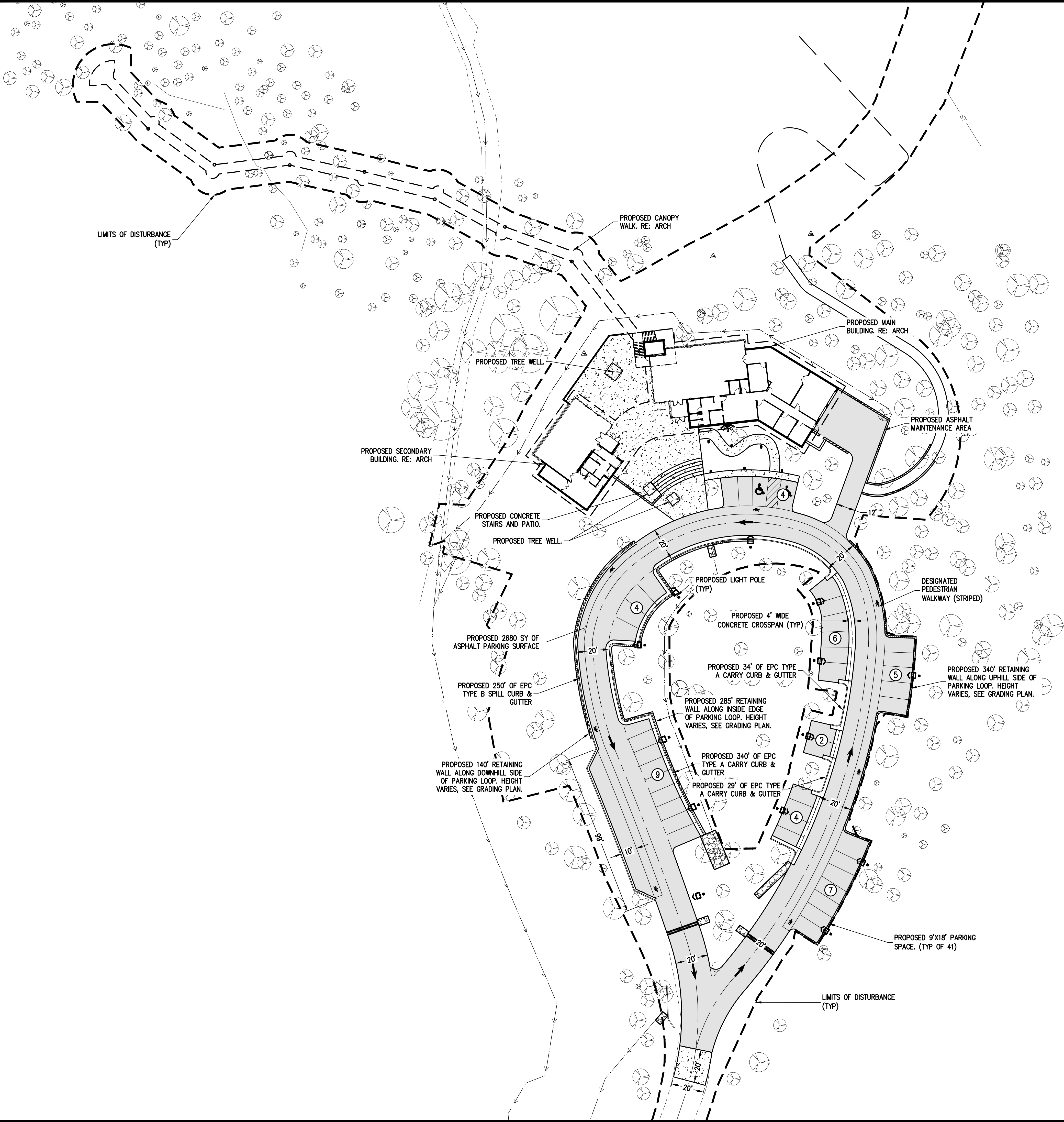
C2

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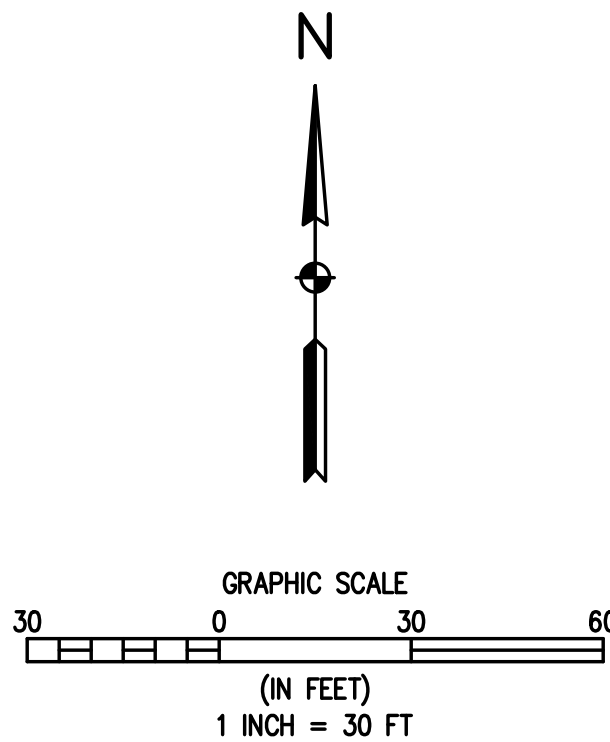


LEGEND

EXISTING LINETYPES		PROPOSED LINETYPES		
				EDGE OF ASPHALT
				EDGE OF BUILDING
				RETAINING WALL
				CURB AND GUTTER (SPILL/CATCH)
EXISTING SYMBOLS	PROPOSED SYMBOLS			
				CONIFEROUS TREE
				ADA PARKING STALL
				ASPHALT PAVING - REFER TO SOILS REPORT FOR PAVING SECTION
				CONCRETE PAVING
				PEDESTRIAN WALKWAY

SITE NOTES:

- IN GENERAL, THE SITE PLAN IDENTIFIES THOSE ITEMS INCLUDED FOR THE CONSTRUCTION OF THE FOX RUN NATURE CENTER INCLUDING THE BUILDINGS, CANOPY WALK, PAVED ACCESS ROAD, PAVED PARKING, ADA ACCESS ROUTES, BUILDING ACCESS & MAINTENANCE AREAS, CONCRETE PLAZA, RETAINING WALLS, ETC.
- ALL CONSTRUCTION TO BE IN ACCORDANCE WITH THE EL PASO COUNTY ENGINEERING CRITERIA MANUAL UNLESS OTHERWISE NOTED.
- THE LOOPED ACCESS ROAD WILL BE CONSTRUCTED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT REQUIREMENTS AND EL PASO COUNTY STANDARDS. PAVEMENT SECTION AND SUBGRADE PREPARATION PER GEOTECHNICAL REPORT.
- CURB & GUTTER SHALL OF THE TYPE INDICATED ON THE PLANS AND IN ACCORDANCE WITH EL PASO COUNTY STANDARD DETAILS. CONCRETE CROSS PAN AS SHOWN ON THE PLANS SHALL BE IN ACCORDANCE WITH THE EL PASO COUNTY STANDARD DETAIL AS MODIFIED BY THE PLANS TO A 4 FOOT WIDTH. CONCRETE STRENGTH SHALL BE 4500 PSI MINIMUM.
- CONCRETE PLAZA AND SIDEWALK TO BE CONSTRUCTED TO CURRENT EL PASO COUNTY STANDARDS. CONCRETE THICKNESS TO BE 5" WITH A MINIMUM STRENGTH OF 4500 PSI.
- PARKING LOT STRIPING INCLUDES PARKING STALL STRIPING, ADA STRIPING AND DESIGNATED PEDESTRIAN WALKWAY STRIPING AS INDICATED ON THE PLANS. STRIPING TO MEET EL PASO COUNTY REQUIREMENTS.
- RETAINING WALLS ARE TO BE CONSTRUCTED TO HEIGHTS INDICATED ON THE PLANS.
- TREE WELLS TO BE FORMED WITH STRUCTURAL CONCRETE WALLS AND PEDESTRIAN SAFE TREE WELL GRATES. TREE WELL DIMENSIONS TO BE VERIFIED BY THE LANDSCAPE ARCHITECT AND EL PASO COUNTY PARKS PERSONNEL. VERIFY DIMENSIONS SHOWN ON PLANS.
- SITE LIGHTING TO BE INSTALLED IN ACCORDANCE WITH ELECTRICAL SITE PLAN AND DETAILS.
- SEE ARCHITECTURAL SITE PLAN FOR ARCHITECTURAL FEATURES AND DETAILS.



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DRAWN BY	AJL
CHECKED BY	SGB

PREPARED BY	DATE
	06/26/2024

REVISION	DESCRIPTION
60 %	DESIGN SET

EL PASO COUNTY PARKS	EL PASO COUNTY
FOX RUN NATURE CENTER	
SITE PLAN	

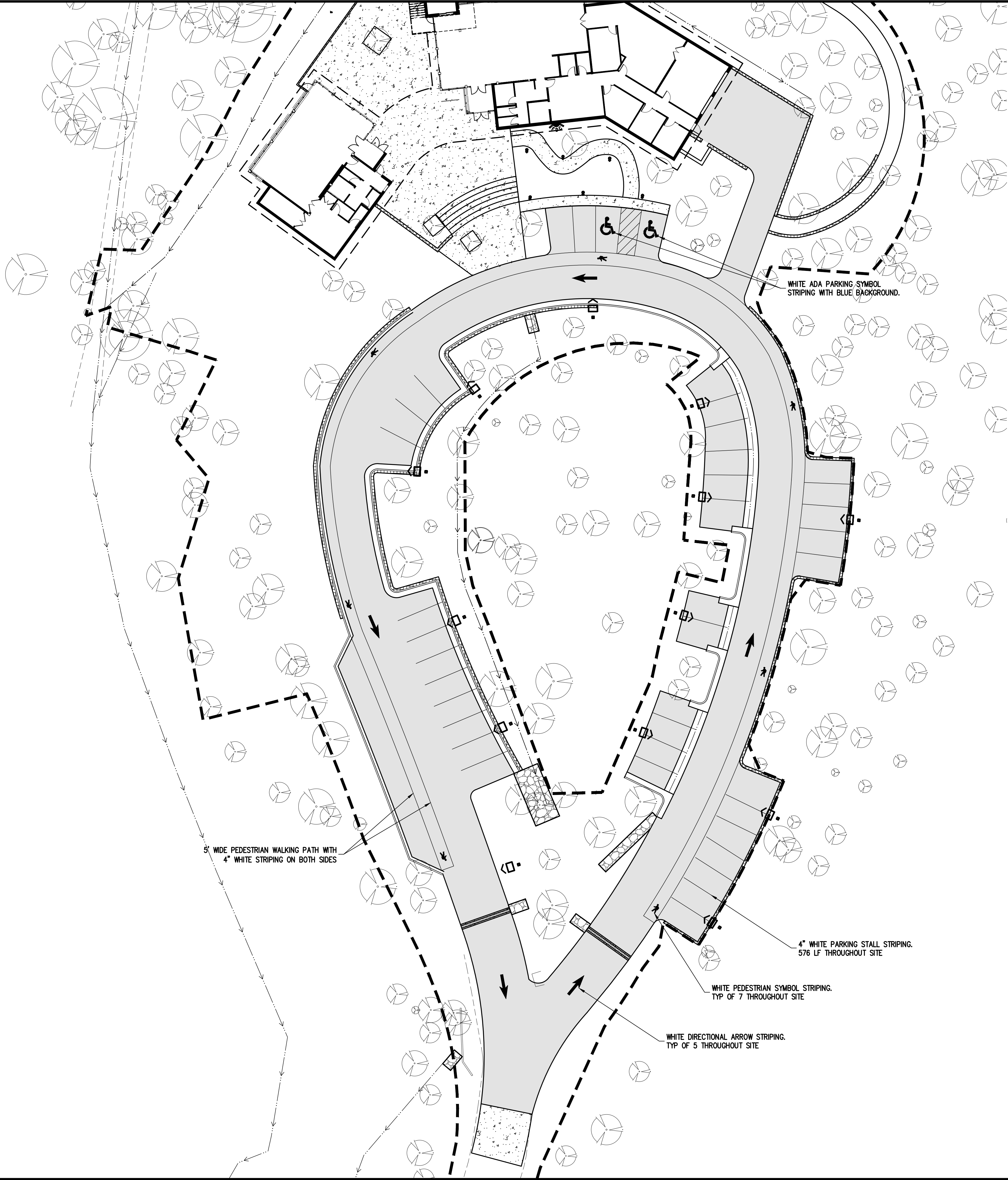
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CONSTRUCTION

FOR AND ON BEHALF OF BASELINE CORPORATION	
INITIAL SUBMITTAL	XX/XX/XX
DRAWING SIZE	24" X 36"
SURVEY FIRM	SURVEY DATE
BASELINE	10/31/2023
JOB NO.	C035069
DRAWING NAME	35069 Site Plan.dwg
SHEET	3 OF 16

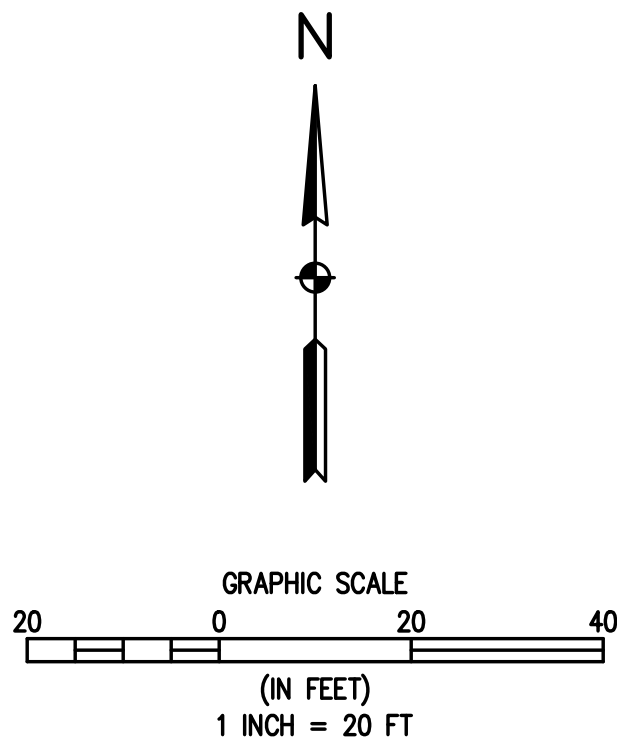
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LEGEND

EXISTING LINETYPES		PROPOSED LINETYPES		
				EDGE OF ASPHALT
				EDGE OF BUILDING
				RETAINING WALL
				CURB AND GUTTER (SPILL/CATCH)
EXISTING SYMBOLS	PROPOSED SYMBOLS			
				CONIFEROUS TREE
				ADA PARKING STALL
				ASPHALT PAVING - REFER TO SOILS REPORT FOR PAVING SECTION
				CONCRETE PAVING
				PEDESTRIAN WALKWAY



EL PASO COUNTY PARKS

FOX RUN NATURE CENTER

STRIPING PLAN

EL PASO COUNTY

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CONSTRUCTION

FOR AND ON BEHALF OF
BASELINE CORPORATION

INITIAL SUBMITTAL XX/XX/XX

DRAWING SIZE 24" X 36"

SURVEY FIRM SURVEY DATE

BASELINE 10/31/2023

JOB NO. C035069

DRAWING NAME

35069 Striping Plan.dwg

SHEET 4 OF 16

C4

DESIGNED BY
AUL

DRAWN BY
AUL

CHECKED BY
SGB

PREPARED BY

DATE
06/26/2024

REVISION DESCRIPTION
60 % DESIGN SET

LEGEND

EXISTING LINETYPES	PROPOSED LINETYPES	
5280	5280	MAJOR CONTOUR (5' INTERVAL)
81	81	MINOR CONTOUR (1' INTERVAL)
		EDGE OF GRAVEL
		EDGE OF ASPHALT
	SF	SILT FENCE

EXISTING PROPOSED
SYMBOLS SYMBOLS

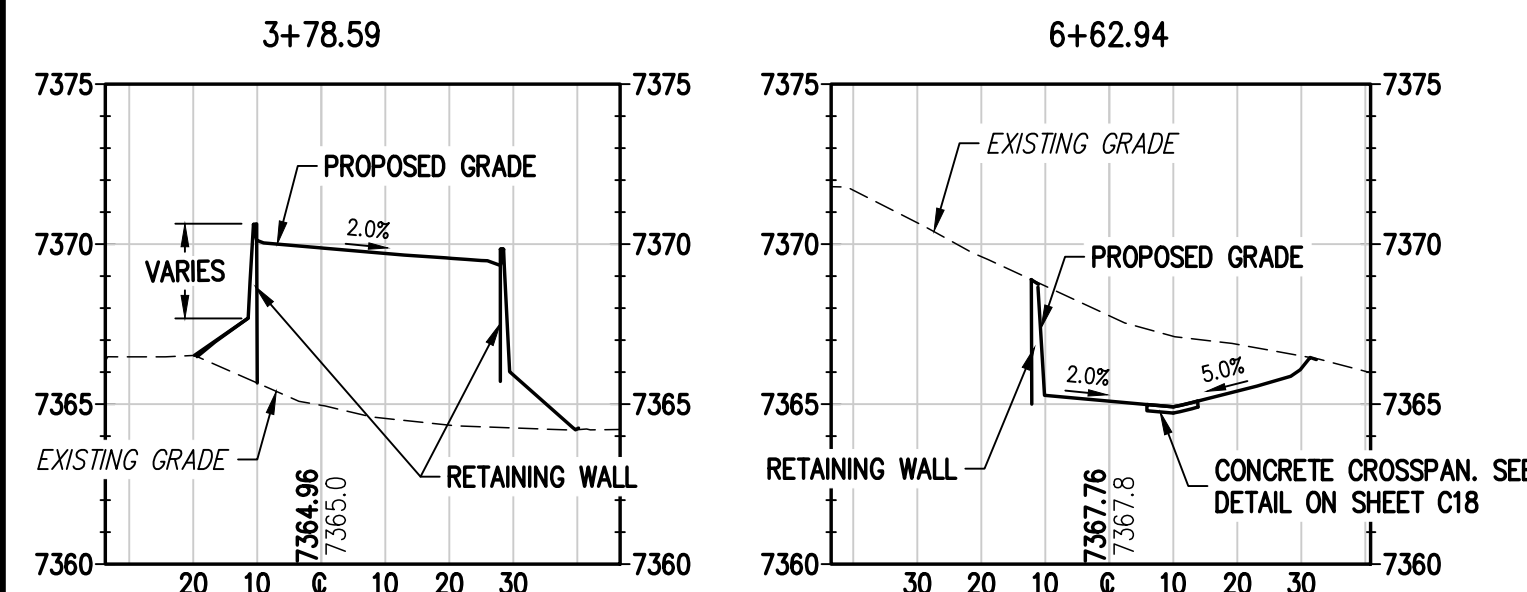
- CONIFEROUS TREE
NOMINAL SLOPE ON CUT OR FILL
SPOT ELEVATION
FLOW DIRECTION, TYPICALLY ON PAVED SURFACES

ASPHALT PAVING - REFER TO SOILS
REPORT FOR PAVING SECTION

CONCRETE PAVING

ESTIMATED EARTHWORK QUANTITIES

-DISTURBED AREA = 1.56 ACRES
-CUT = 1300 CY
-FILL = 3800 CY
-APPROX EXTRA CUT ALLOWANCE
FOR FLATWORK = 700 CY
-NET = 1800 CY (FILL)

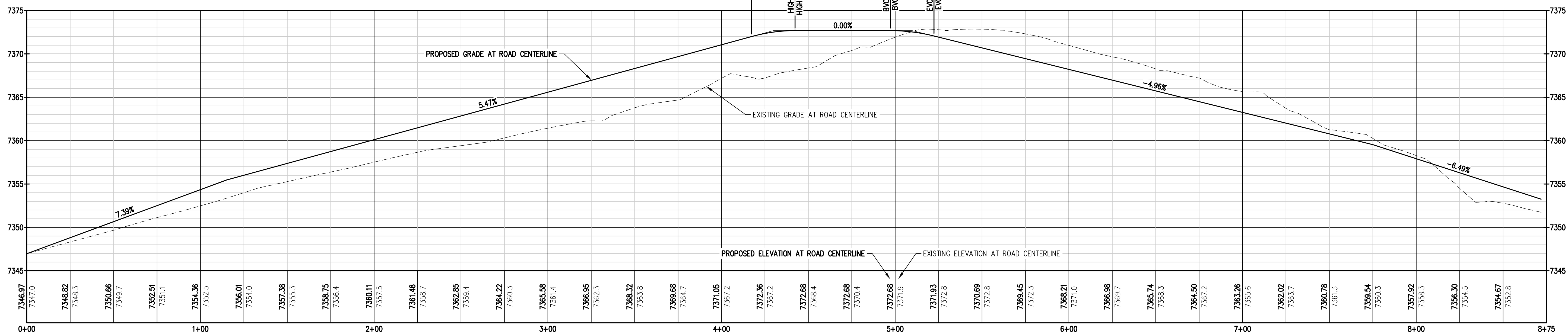
B
C5/C5
LOOP ROAD SECTION
SCALE: 1" = 30'A
C5/C5
LOOP ROAD SECTION
SCALE: 1" = 30'SEE GRADING & EROSION CONTROL NOTES
ON SHEET C11

ALIGNMENT LINE TABLE

LINE #	LENGTH	BEARING
L1	57.54'	N 18°35'57" E

ALIGNMENT CURVE TABLE

CURVE #	RADIUS	LENGTH	DELTA	CHORD BEARING	CHORD LENGTH
C1	155.41'	104.46'	38°30'47"	N 00°35'39" W	102.51'
C2	1781.12'	121.64'	3°54'47"	N 20°50'02" W	121.62'
C3	218.77'	63.16'	16°32'32"	N 11°04'26" W	62.94'
C4	70.63'	63.40'	51°25'45"	N 31°33'01" E	61.29'
C5	104.41'	95.27'	52°16'38"	N 79°21'11" E	92.00'
C6	61.10'	48.78'	45°44'46"	S 53°03'53" E	47.50'
C7	91.30'	46.76'	29°20'53"	S 10°07'06" E	46.25'
C8	349.31'	184.84'	30°19'07"	S 19°20'37" W	182.69'
C9	350.75'	34.28'	5°35'57"	S 37°29'23" W	34.26'
C10	104.11'	51.77'	28°29'35"	S 28°04'09" W	51.24'

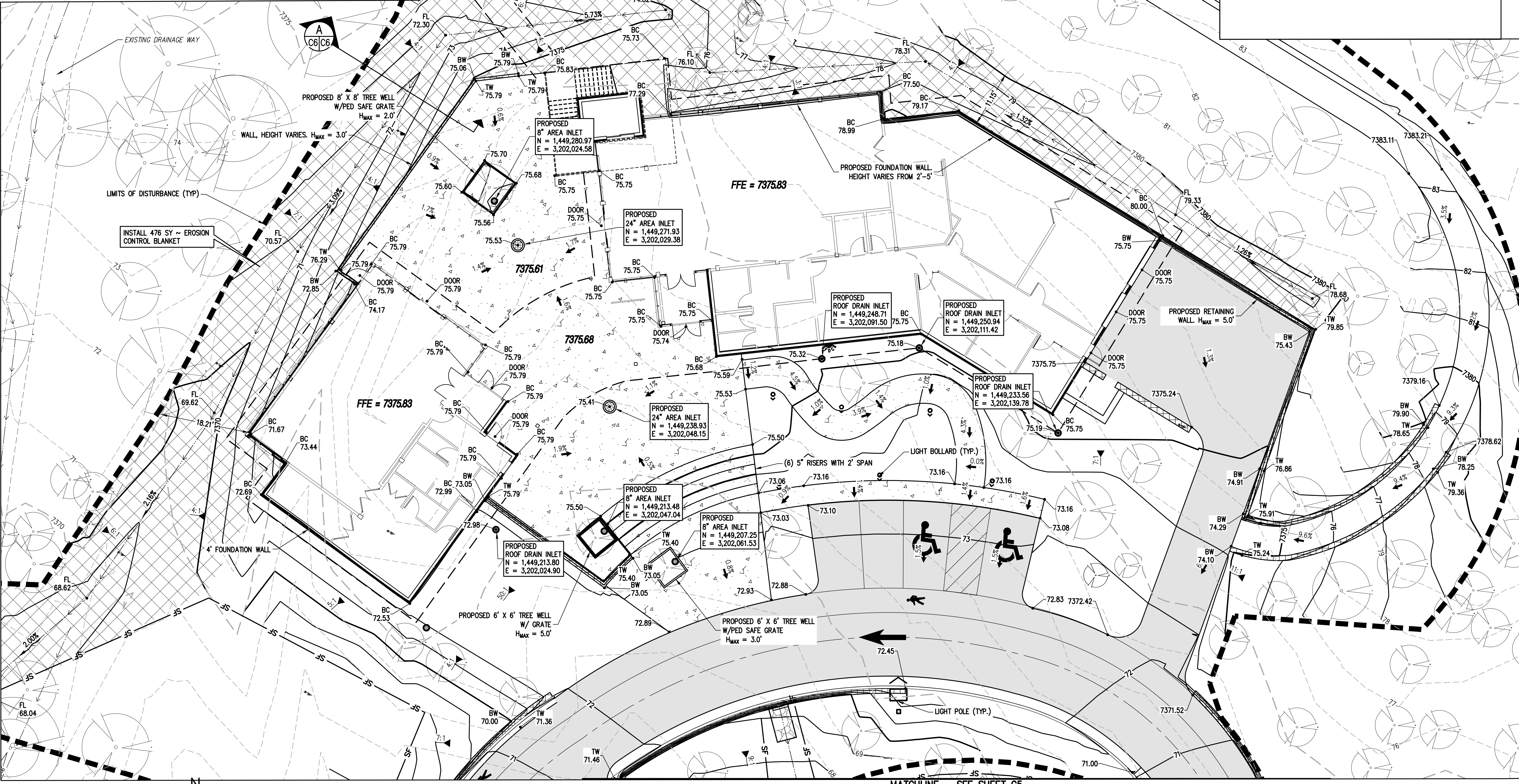
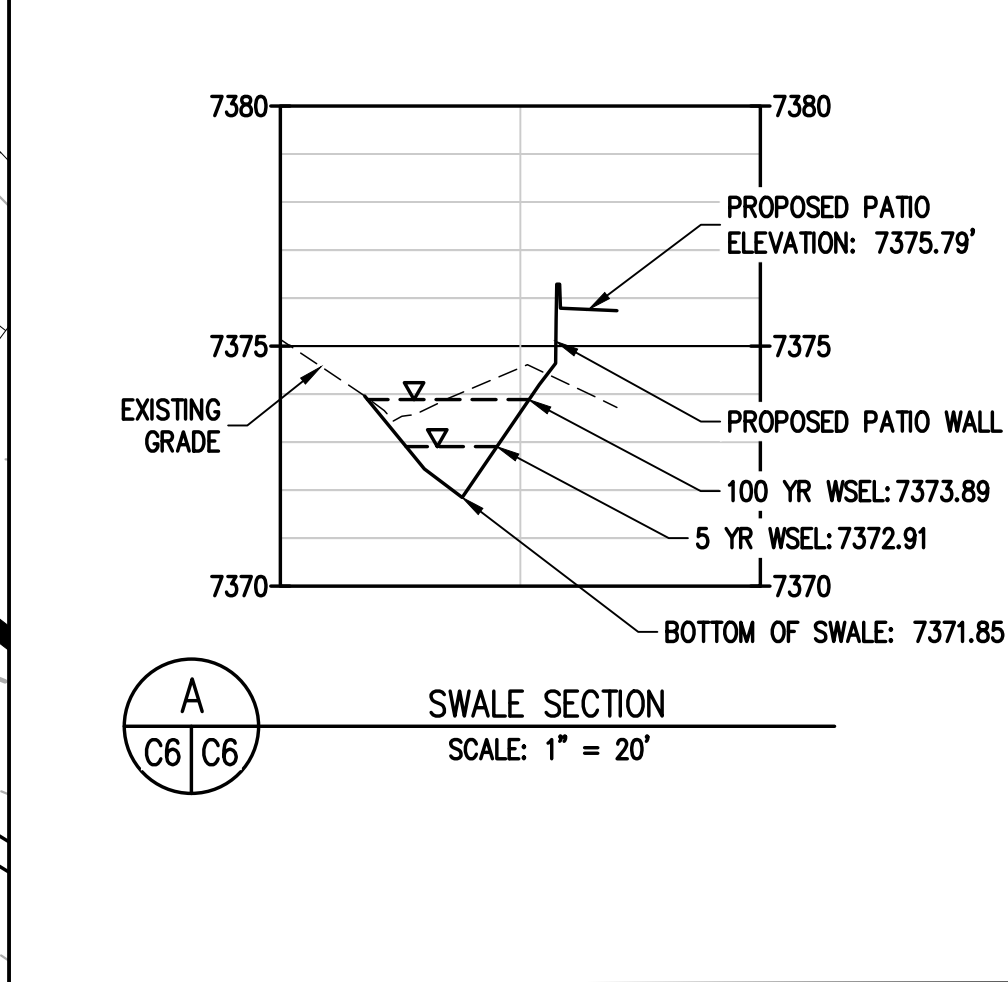
GRAPHIC SCALE
(IN FEET)
HORIZ: 1 INCH = 30 FT
VERT: 1 INCH = 6 FT

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A/JL
CHECKED BY
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06/26/2024
PREPARED BYREVISION DESCRIPTION
60 % DESIGN SETEL PASO COUNTY PARKS
FOX RUN NATURE CENTER
DRIVEWAY & PARKING AREA GRADING PLANPREPARED UNDER THE DIRECT
SUPERVISION OFPRELIMINARY
NOT FOR
CONSTRUCTIONFOR AND ON BEHALF OF
BASELINE CORPORATION
INITIAL SUBMITTAL XX/XX/XX
DRAWING SIZE 24" X 36"
SURVEY FIRM BASELINE SURVEY DATE 10/31/2023
JOB NO. C035069
DRAWING NAME 35069 Grading Plan.dwg
SHEET 5 OF 16
C5

GRADING & EROSION CONTROL NOTES:

1. SITE GRADING TO BE COMPLETED TO THE LINES AND GRADES INDICATED ON THE PLANS. IN GENERAL, THE SITE GRADING INCLUDES OVERLOT GRADING FOR THE BUILDINGS, ACCESS ROAD AND PARKING LOT, PLAZA AND LANDSCAPE AREAS, DRAINAGE SWALES AND A WATER QUALITY FACILITY.
2. ELEVATIONS AND TREE LOCATIONS ARE BASED ON FIELD SURVEY BY BASELINE ENGINEERING. TREES SMALLER THAN 4" IN DIAMETER AND ADJUSTMENT OF THE SITE SINCE THE SURVEY WAS COMPLETED MAY RESULT IN ADDITIONAL TREES WITHIN THE DEMOLITION AND PRESERVATION AREAS.
3. SUBGRADE REQUIREMENTS FOR THE BUILDING, ACCESS ROAD, PARKING LOT AND HARDSCAPE AREAS SHALL BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT FOR THE SITE.
4. ALL CONSTRUCTION TO BE IN ACCORDANCE WITH THE EL PASO COUNTY ENGINEERING CRITERIA MANUAL UNLESS OTHERWISE NOTED.
5. EXTREME CAUTION SHALL BE USED TO PROTECT TREES AND VEGETATION AREAS INDICATED TO REMAIN ON THE CIVIL AND LANDSCAPE PLANS. LIMITS OF DISTURBANCE ARE NOTED ON THE DESIGN PLANS. ADJUSTMENT OF THESE LIMITS IS SUBJECT TO APPROVAL BY THE DESIGN TEAM AND/OR EL PASO COUNTY STAFF. THESE LIMITS MAY BE AFFECTED BY TREE PROTECTION REQUIREMENTS AND OTHER FIELD CONDITIONS.
6. LIMITS OF DISTURBANCE IS INDICATED FOR THE CANOPY WALK PORTION OF THE SITE. GRADING IS NOT REQUIRED FOR THIS PORTION OF THE PROJECT OTHER THAN GRADING DISTANCE FROM THE INSTALLATION OF THE SUPPORT TOWERS AND CONSTRUCTION ACCESS. THE AREA UNDER THE CANOPY WALK WILL BE REVEGETATED TO ITS NATURAL STATE UPON COMPLETION OF THE PROJECT.
7. GRADING OPERATIONS SHALL NOT COMMENCE UNTIL INITIAL CONSTRUCTION BMPs ARE IN PLACE IN ACCORDANCE WITH THE APPROVED GRADING & EROSION CONTROL PLAN.
8. INITIAL CONSTRUCTION BMPs INCLUDE SILT FENCING ON DOWN STREAM PERIMETER OF SITE AND EROSION BLANKETS ON THE MAIN DIVERSION SWALE. WATER QUALITY FACILITY TO BE UTILIZED AS TEMPORARY SEDIMENT BASIN DURING CONSTRUCTION.
9. INTERIM CONSTRUCTION BMPs TO INCLUDE INLET PROTECTION WHERE APPLICABLE, ROCK CHECKS IN THE GRADED ROADWAY FLOWLINE, CONCRETE WASHOUT, VEHICLE TRACKING CONTROL AND SILT FENCE AT CANOPY WALK SUPPORT TOWER CONSTRUCTION LOCATIONS.
10. FINAL CONSTRUCTION BMPs INCLUDE RESEEDING AND REVEGETATION OF THE SITE IN ACCORDANCE WITH THE APPROVED LANDSCAPE PLANS.



GRAPHIC SCALE

10 0 10 20

(IN FEET)

1 INCH = 10 FT

LEGEND

EXISTING UNETYPES	PROPOSED UNETYPES	
5280	5280	MAJOR CONTOUR (5' INTERVAL)
81	81	MINOR CONTOUR (1' INTERVAL)
		EDGE OF GRAVEL
		EDGE OF ASPHALT
	SF	SILT FENCE

EXISTING SYMBOLS	PROPOSED SYMBOLS	
		CONIFEROUS TREE
		NOMINAL SLOPE ON CUT OR FILL
		SPOT ELEVATION
		FLOW DIRECTION, TYPICALLY ON PAVED SURFACES

	ASPHALT PAVING - REFER TO SOILS REPORT FOR PAVING SECTION
	CONCRETE PAVING
	EROSION CONTROL BLANKET

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A/JL	06/26/2024		60 % DESIGN SET
AW			
A/JL			
SGB			

EL PASO COUNTY

FOX RUN NATURE CENTER

BUILDING GRADING PLAN

PREPARED UNDER THE DIRECT SUPERVISION OF

PRELIMINARY NOT FOR CONSTRUCTION

FOR AND ON BEHALF OF

BASELINE CORPORATION

INITIAL SUBMITTAL: XX/XX/XX

DRAWING SIZE: 24" X 36"

SURVEY FIRM: BASELINE

SURVEY DATE: 10/31/2023

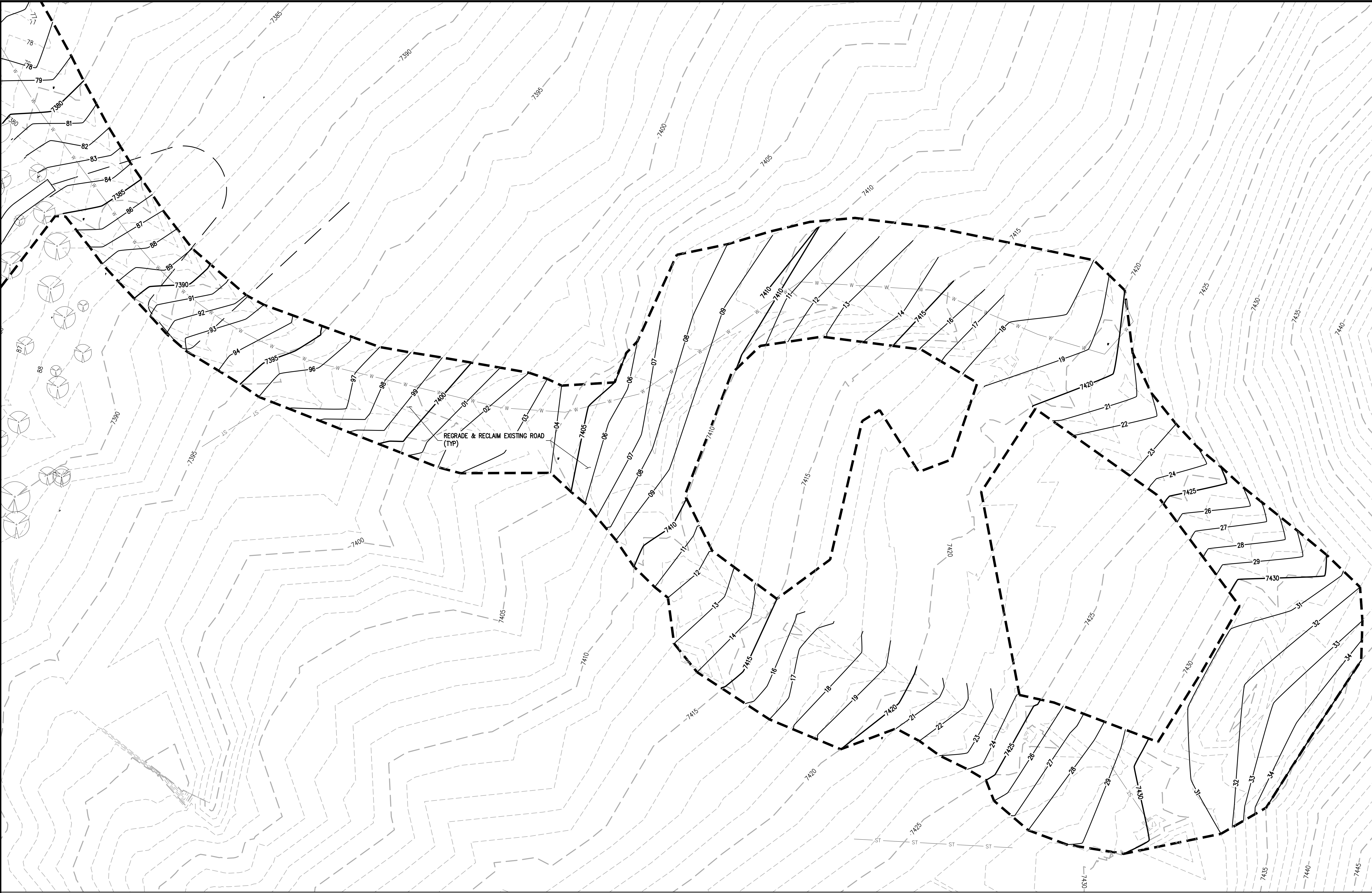
JOB NO.: C035069

DRAWING NAME: 35069 Grading Plan.dwg

SHEET: 6 OF 16

C6

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GRAPHIC SCALE

(IN FEET)

1 INCH = 20 FT

LEGEND

EXISTING LINETYPES	PROPOSED LINETYPES	
--- 5280 ---	--- 5280 ---	MAJOR CONTOUR (5' INTERVAL)
--- 81 ---	--- 81 ---	MINOR CONTOUR (1' INTERVAL)
---	---	EDGE OF GRAVEL
---	---	EDGE OF ASPHALT
---	--- SF ---	SILT FENCE

EXISTING SYMBOLS	PROPOSED SYMBOLS	
		CONIFEROUS TREE
		NOMINAL SLOPE ON CUT OR FILL
		SPOT ELEVATION
		FLOW DIRECTION, TYPICALLY ON PAVED SURFACES

	ASPHALT PAVING -- REFER TO SOILS REPORT FOR PAVING SECTION
	CONCRETE PAVING
	EROSION CONTROL BLANKET

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INITIAL SUBMITTAL	XX/XX/XX
DRAWING SIZE	24" X 36"
SURVEY FIRM	SURVEY DATE
BASELINE	10/31/2023
JOB NO.	C035069
DRAWING NAME	35069 Grading Plan.dwg
SHEET	7 OF 16

C7

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AJL	06/26/2024		60 % DESIGN SET
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AJL			
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SGB			

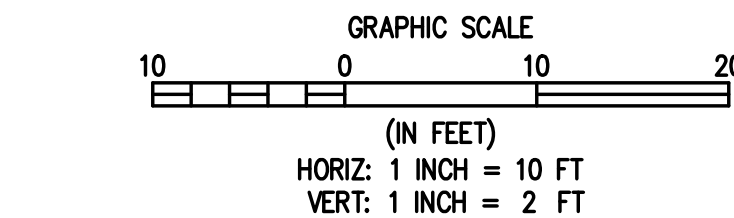
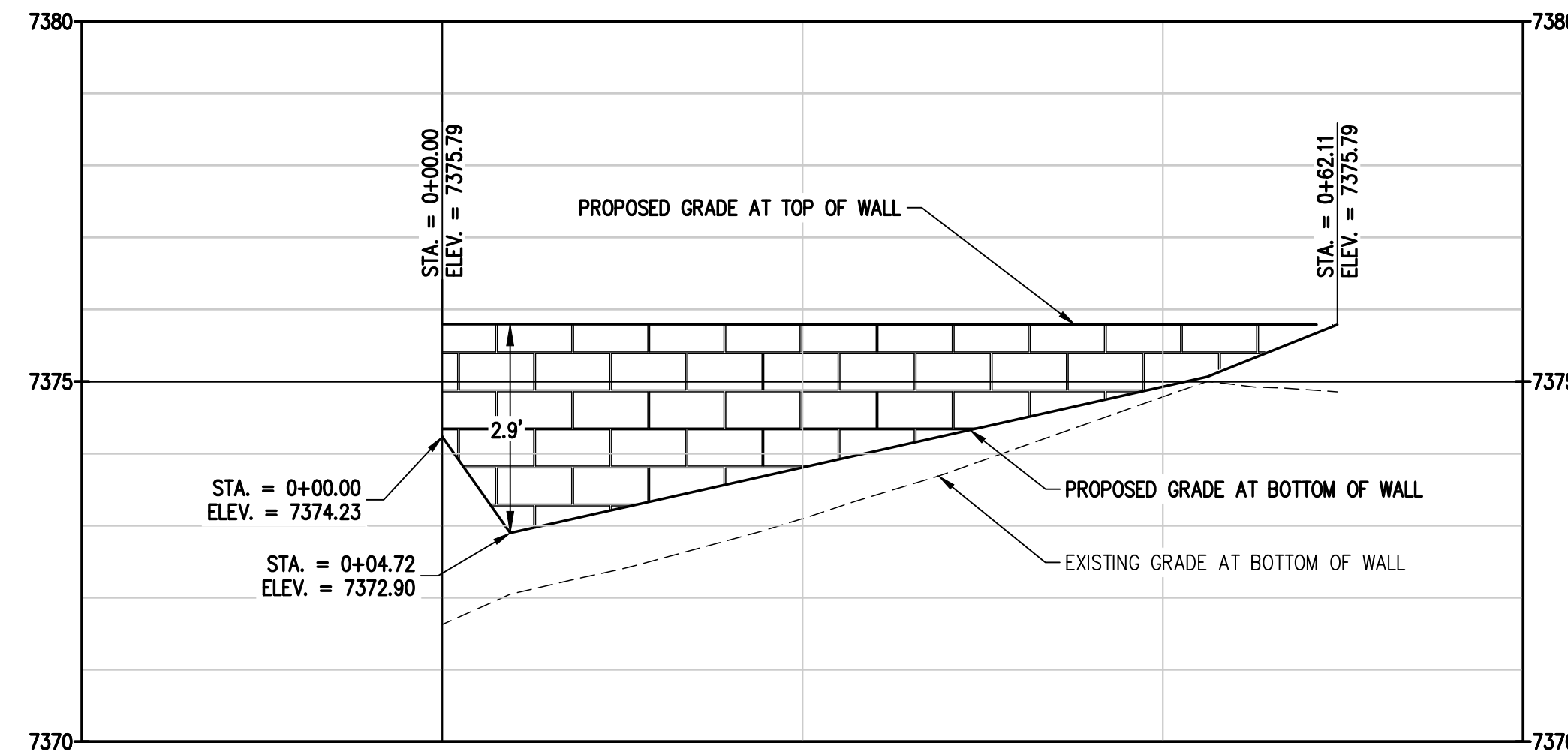
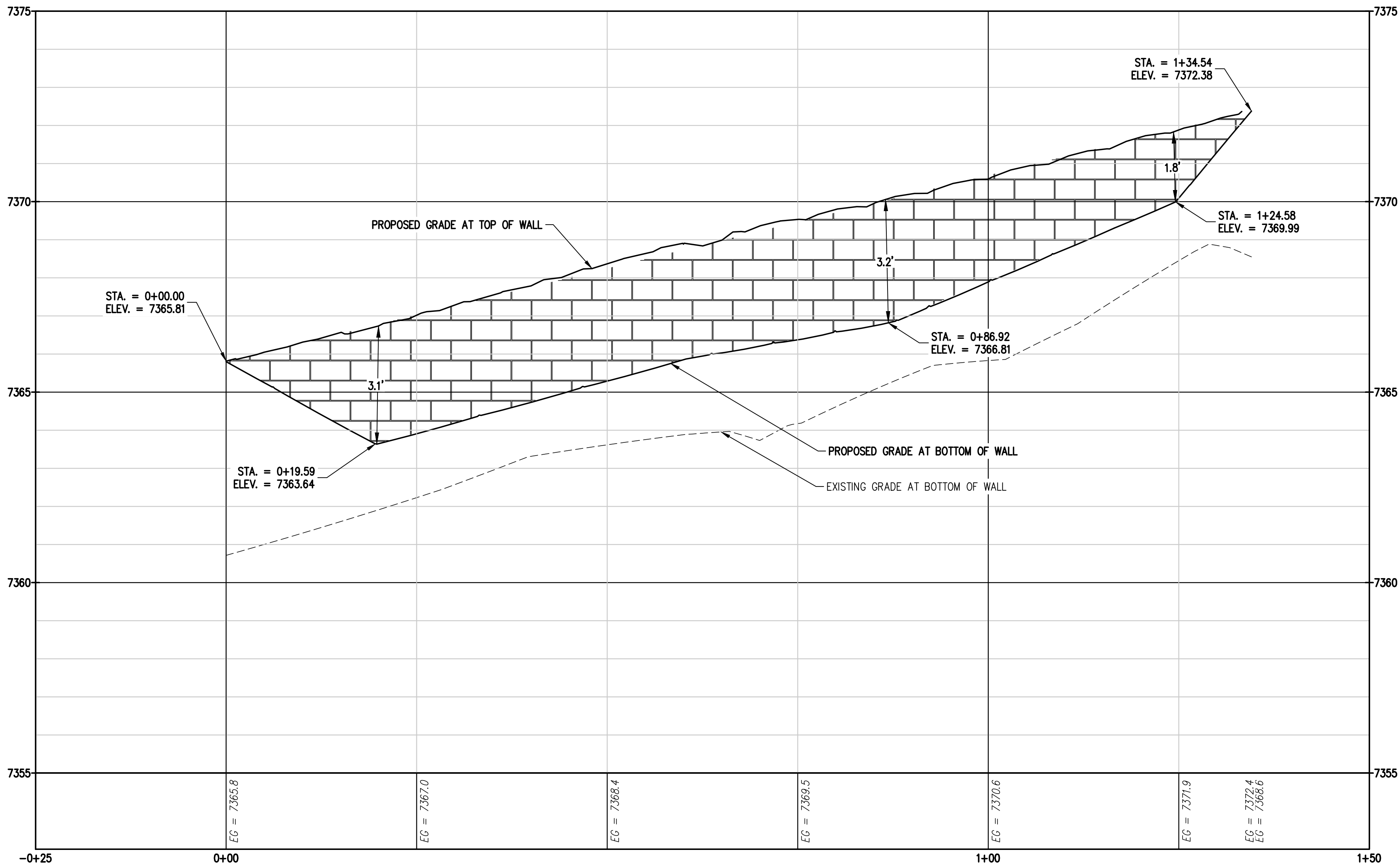
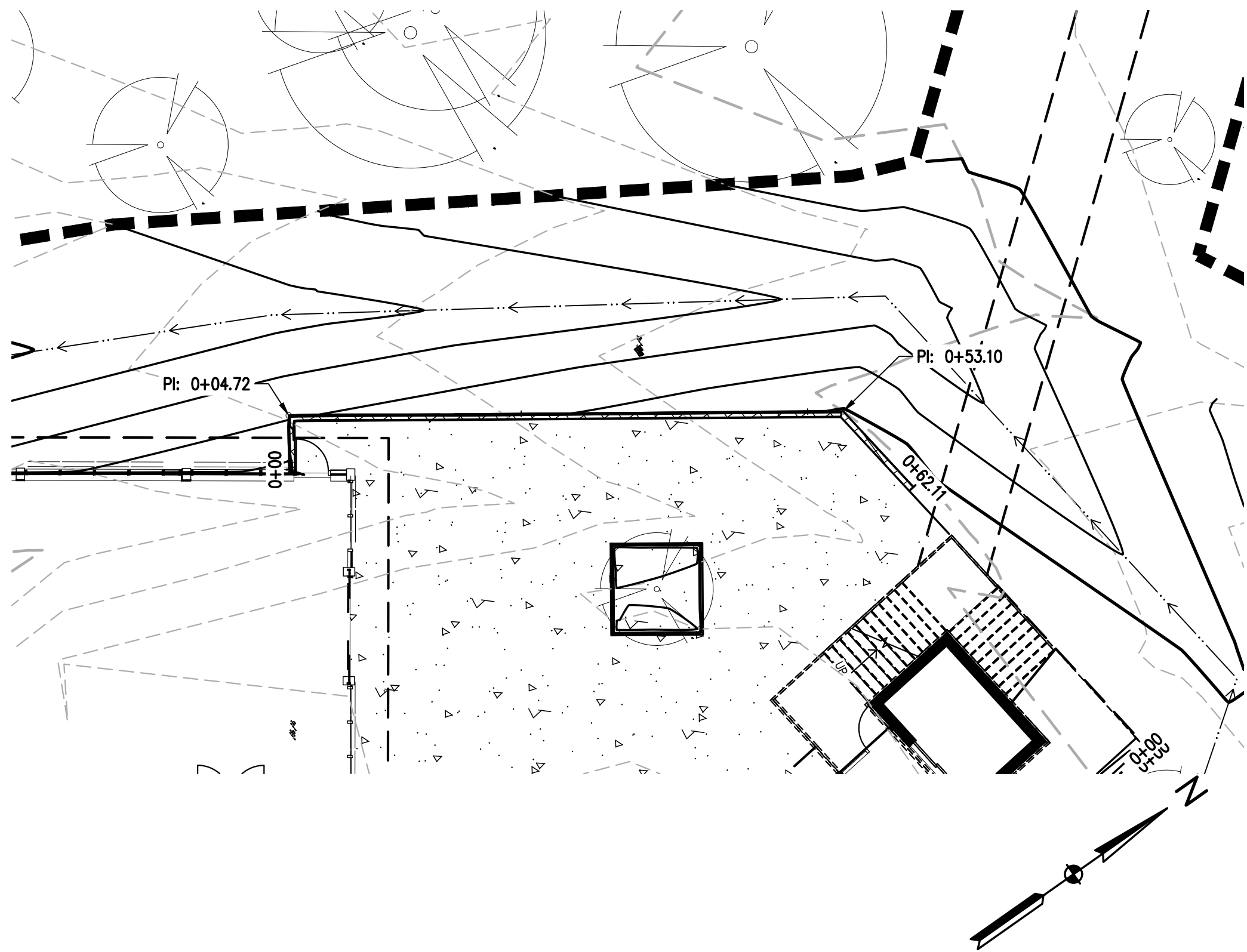
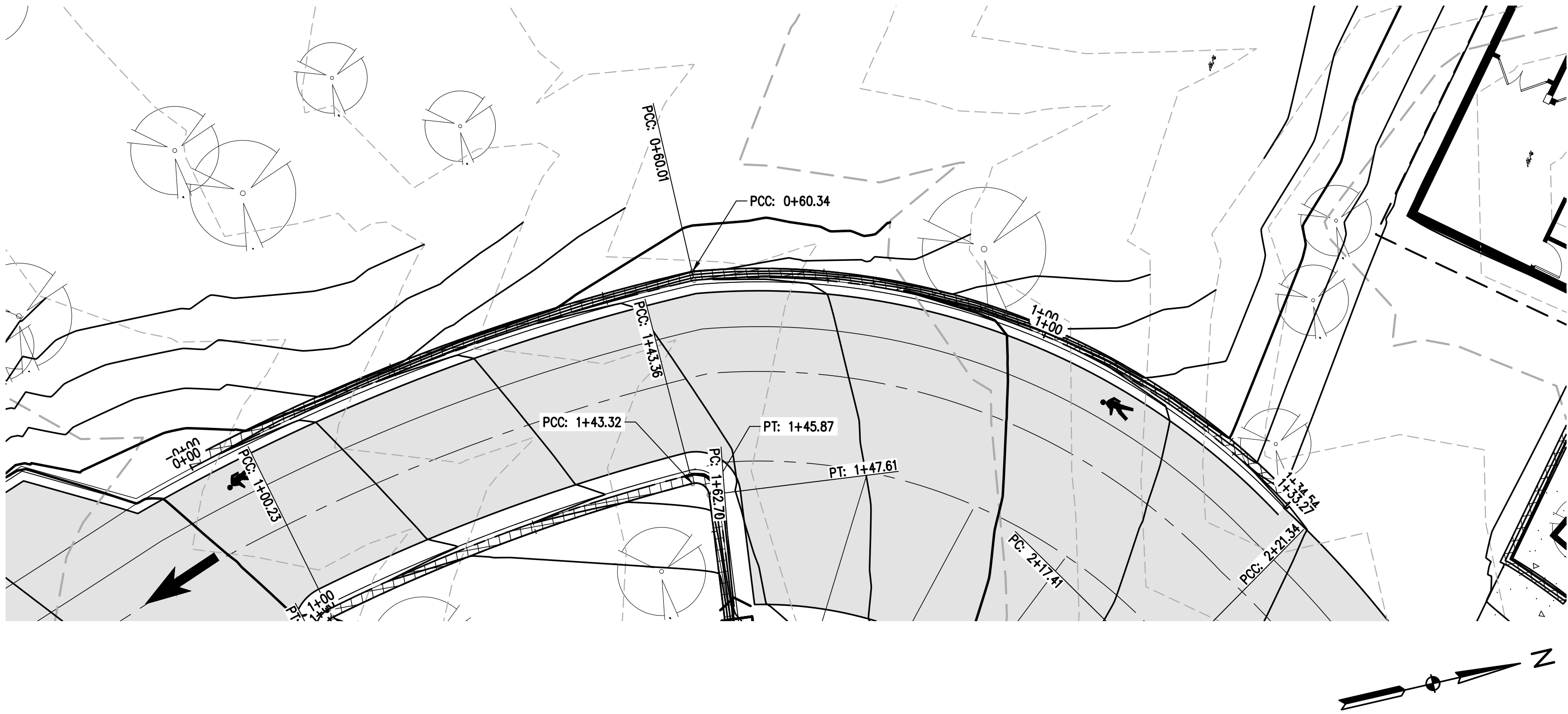
EL PASO COUNTY PARKS

FOX RUN NATURE CENTER

ROAD RECLAMATION GRADING PLAN

EL PASO COUNTY

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1
C8 WALL PLAN AND PROFILE I

DESIGNED BY: AJL
DRAWN BY: AJL
CHECKED BY: SGB

DATE: 06/26/2024

PREPARED BY:

REVISION DESCRIPTION: 60% DESIGN SET

EL PASO COUNTY

FOX RUN NATURE CENTER

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INITIAL SUBMITTAL: XX/XX/XX
DRAWING SIZE: 24" X 36"

SURVEY FIRM: BASELINE
SURVEY DATE: 10/31/2023

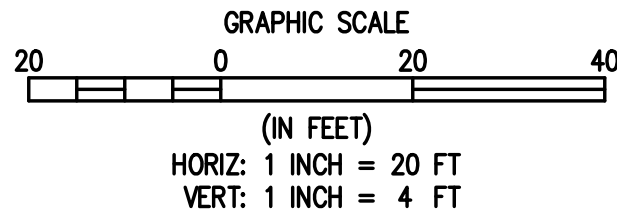
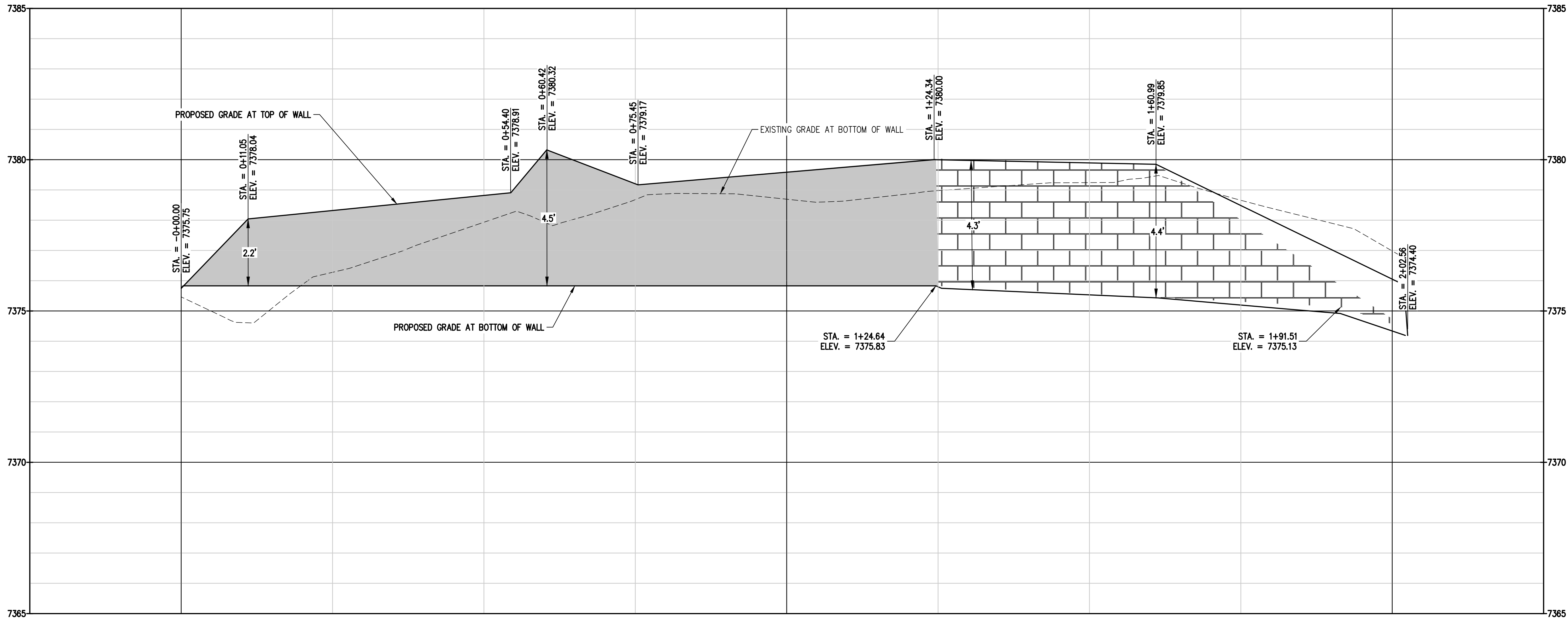
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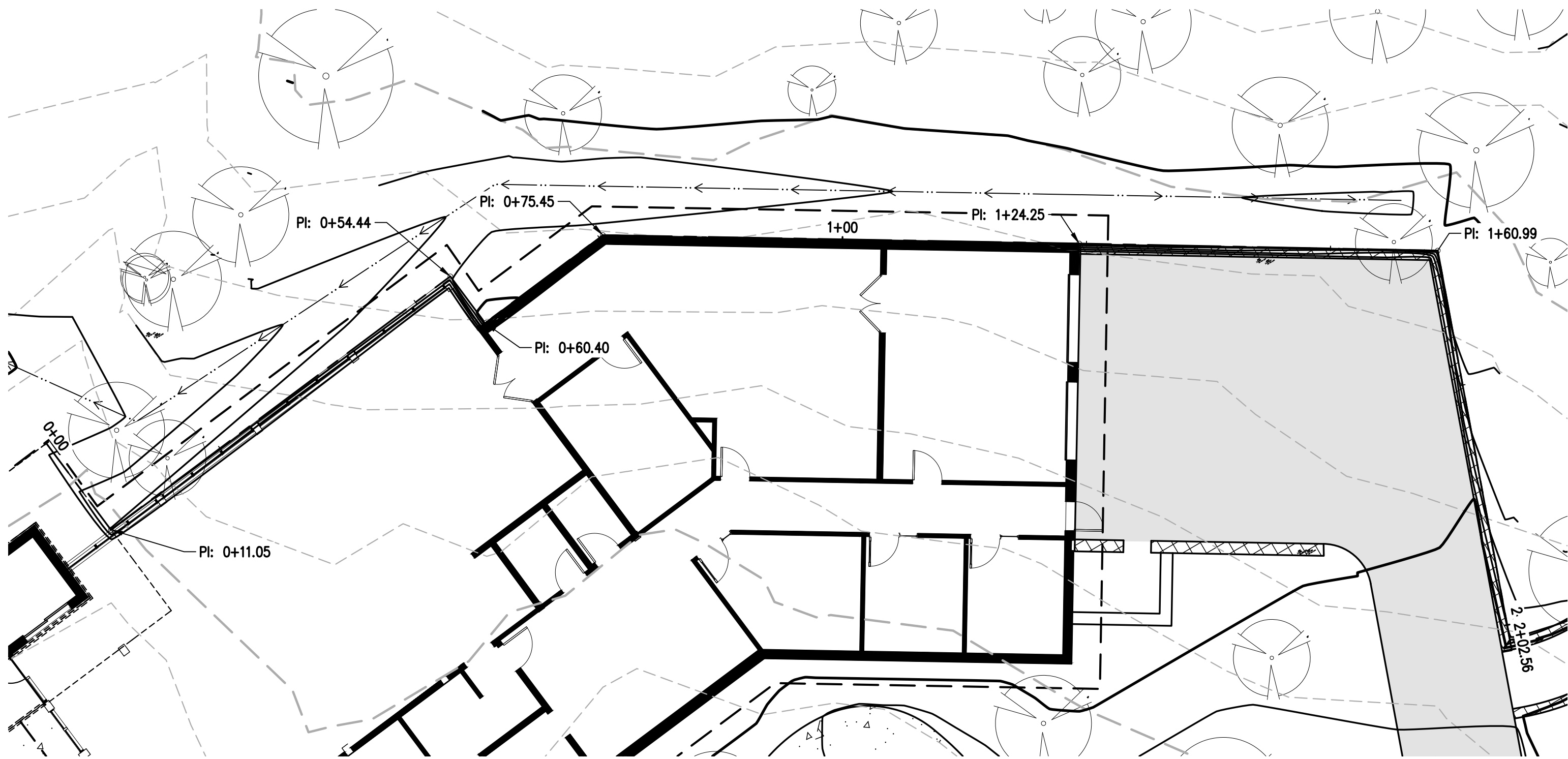
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C9

WALL PLAN AND PROFILE II



EL PASO COUNTY PARKS

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INITIAL SUBMITTAL XX/XX/XX

DRAWING SIZE 24" X 36"

SURVEY FIRM SURVEY DATE

BASELINE 10/31/2023

JOB NO. C035069

DRAWING NAME

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REVISION DESCRIPTION

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AJL

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EL PASO COUNTY PARKS

FOX RUN NATURE CENTER

EL PASO COUNTY

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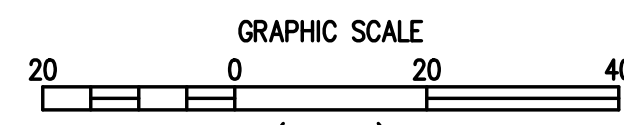
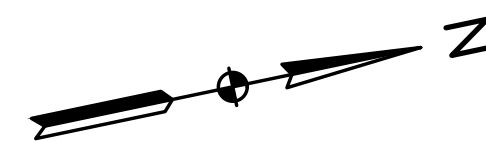
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SURVEY FIRM	SURVEY DATE
BASELINE	10/31/2022

JOB NO.	C035069
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DRAWING NAME
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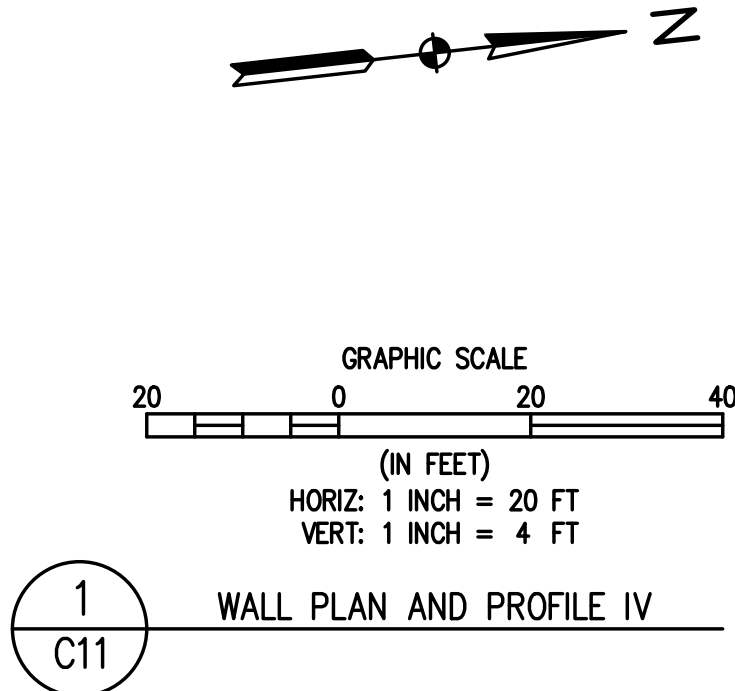
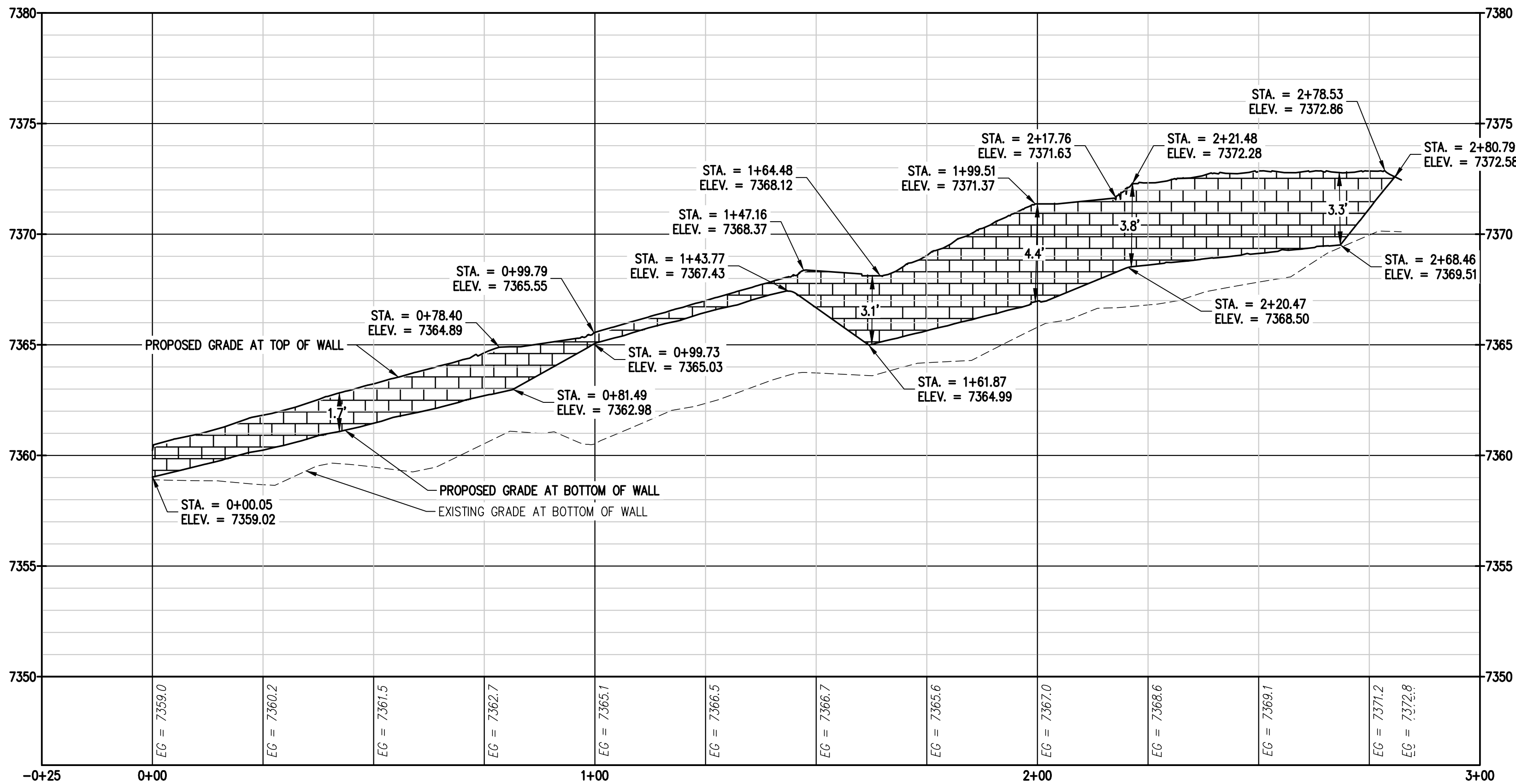
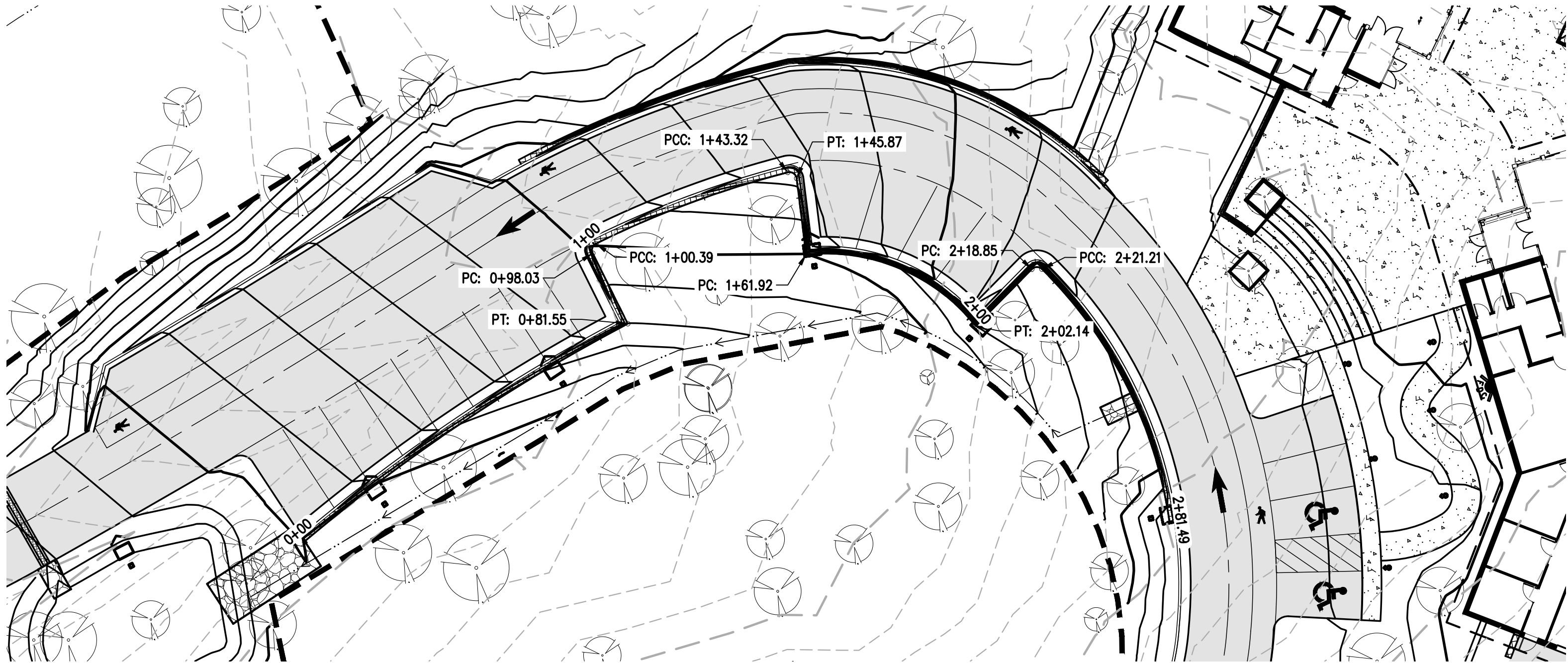
HORIZ: 1 INCH = 20 FT
VERT: 1 INCH = 4 FT

WALL PLAN AND PROFILE II

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WALL PLAN AND PROFILE II

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FOX RUN NATURE CENTER

EL PASO COUNTY

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BASELINE CORPORATION

INITIAL SUBMITTAL
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DRAWING SIZE
24" X 36"

SURVEY FIRM
BASELINE

SURVEY DATE
10/31/2023

JOB NO.
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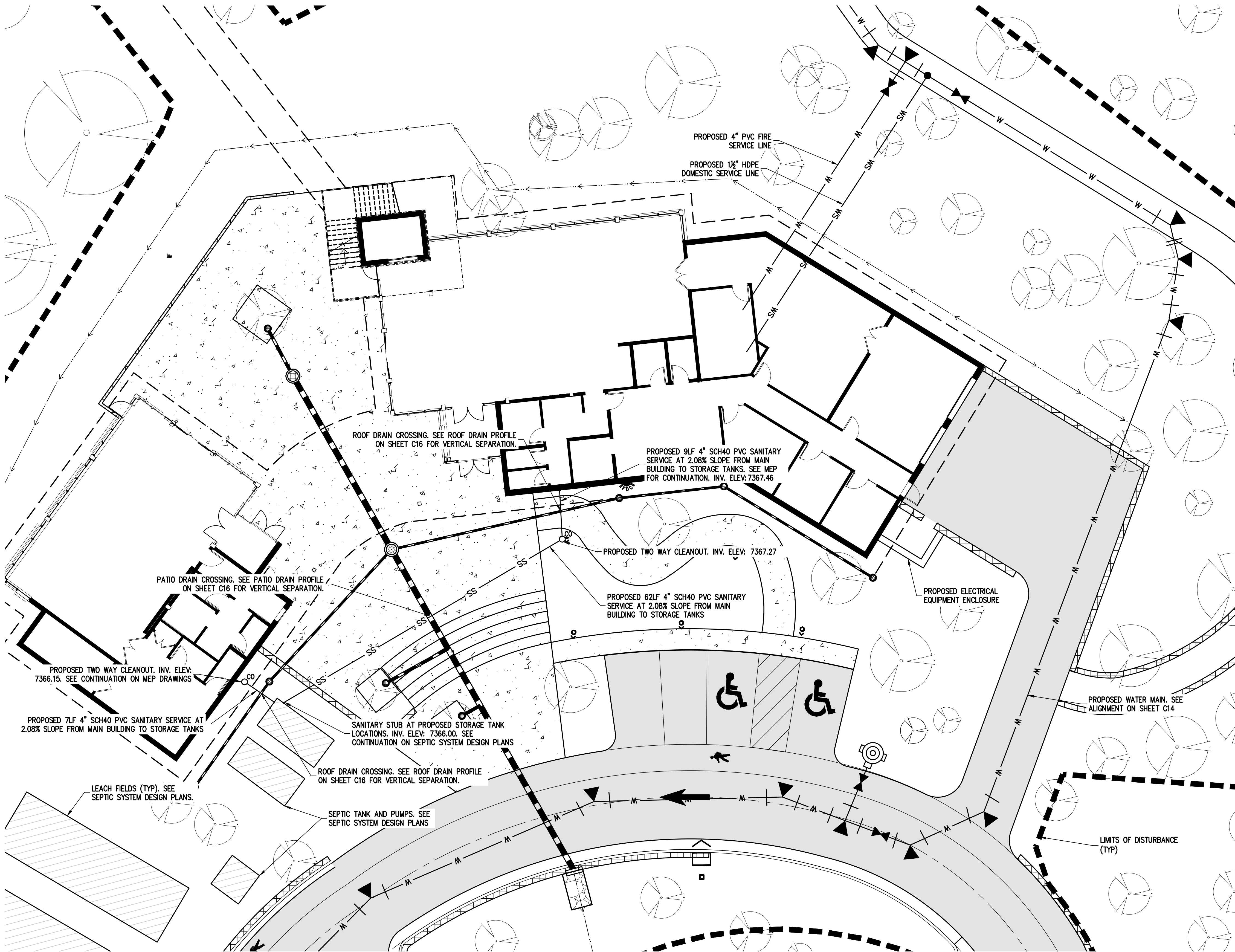
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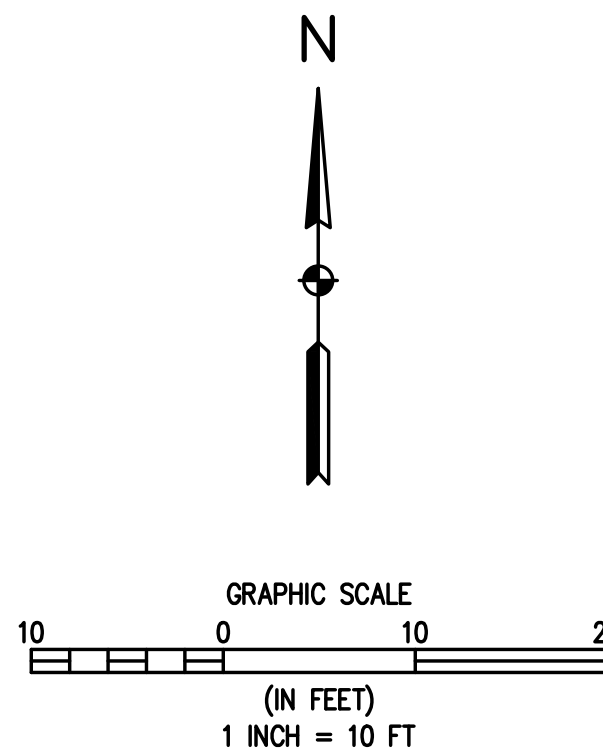


LEGEND

EXISTING LINETYPES	PROPOSED LINETYPES	
5280	5280	MAJOR CONTOUR (5' INTERVAL)
81	81	MINOR CONTOUR (1' INTERVAL)
		EDGE OF GRAVEL
		EDGE OF ASPHALT
SAN	SAN	SANITARY SEWER MAIN
W	W	WATER LINE
ST	ST	STORM SEWER
EXISTING SYMBOLS	PROPOSED SYMBOLS	
		CONIFEROUS TREE
		CLEANOUT
		TYPE 'C' INLET
		ASPHALT PAVING - REFER TO SOILS REPORT FOR PAVING SECTION
		CONCRETE PAVING

UTILITY NOTES

- IN GENERAL, THE SITE UTILITY CONSTRUCTION CONSISTS OF THE UPSIZING AND RELOCATION OF THE EXISTING 4" WATER MAIN TO A 6" WATER MAIN, INSTALLATION OF A DOMESTIC SERVICE AND A FIRE MAIN, INSTALLATION OF WASTEWATER SERVICES FOR EACH BUILDING AND CONSTRUCTION OF AN ONSITE WASTEWATER TREATMENT SYSTEM.
- ALL CONSTRUCTION OF THE WATER MAIN, FIRE MAIN AND WATER SERVICE SHALL BE IN COMPLIANCE WITH ALL REQUIREMENTS OF THE DONALA WATER & SANITATION DISTRICT.
- WATER MAIN REPLACEMENT WILL REQUIRE REMOVAL OF THE EXISTING 4" WATER MAIN AND SHALL BE IN COMPLIANCE WITH ALL REQUIREMENTS OF THE DONALA WATER & SANITATION DISTRICT. REMOVAL OF THE EXISTING WATER MAIN IN ACCORDANCE WITH THE APPROVED PLANS WILL REQUIRE A TEMPORARY WATER SERVICE PLAN TO MAINTAIN THE WATER SERVICE FOR THE OTHER PORTIONS OF THE FOX RUN PARK THAT ALSO UTILIZE THIS MAIN. IT IS ANTICIPATED THAT A PHASED REMOVAL AND REPLACEMENT WILL BE REQUIRED FOR THE WATER MAIN TO ALLOW FOR A TEMPORARY WATER PLAN AS EACH SEGMENT OF THE 4" MAIN IS REMOVED.
- THE PROPOSED 6" WATER MAIN FOLLOWS THE EXISTING MAIN ROUTE IN THE ROAD WITH THE EXCEPTION OF THE AREA WHERE IT IS ROUTED AROUND THE PROPOSED BUILDING. ALL WATER MAIN AND WATER SERVICE CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST DONALA WATER & SANITATION DISTRICT STANDARDS AND SPECIFICATIONS.
- WATER SERVICES FOR THE FOX RUN NATURE CENTER INCLUDE A 1.5" (ID EQUIVALENT) HDPE DOMESTIC WATER SERVICE AND A 4" PVC FIRE MAIN AS SHOWN ON THE PLANS. METER AND BACKFLOW EQUIPMENT WILL BE LOCATED INSIDE THE BUILDING.
- A PROPOSED FIRE HYDRANT AND FIRE DEPARTMENT CONNECTION ARE LOCATED ON THE FRONT SIDE OF THE MAIN BUILDING.
- WASTEWATER SERVICES WILL LEAVE EACH PROPOSED BUILDING AS SHOWN ON THE PLANS. THE 4" PVC SERVICES WILL CONNECT TO THE PROPOSED SEPTIC SYSTEM AS SHOWN ON THE PLANS. SEE SEPTIC SYSTEM PLANS FOR ADDITIONAL DETAILS.
- AN ELECTRIC EQUIPMENT ENCLOSURE IS PROVIDED AT THE SOUTHEAST CORNER OF THE PROPOSED MAIN BUILDING. ELECTRIC SERVICE EXTENSION TO BE PROVIDED BY MOUNTAIN VIEW ELECTRIC.



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SGB

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06/26/2024

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EL PASO COUNTY

EL PASO COUNTY PARKS
FOX RUN NATURE CENTER
UTILITY SERVICES PLAN

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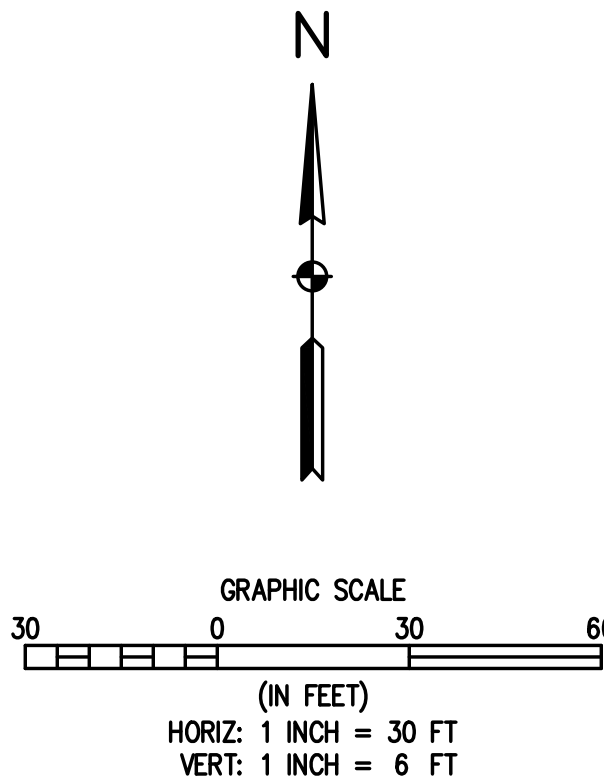
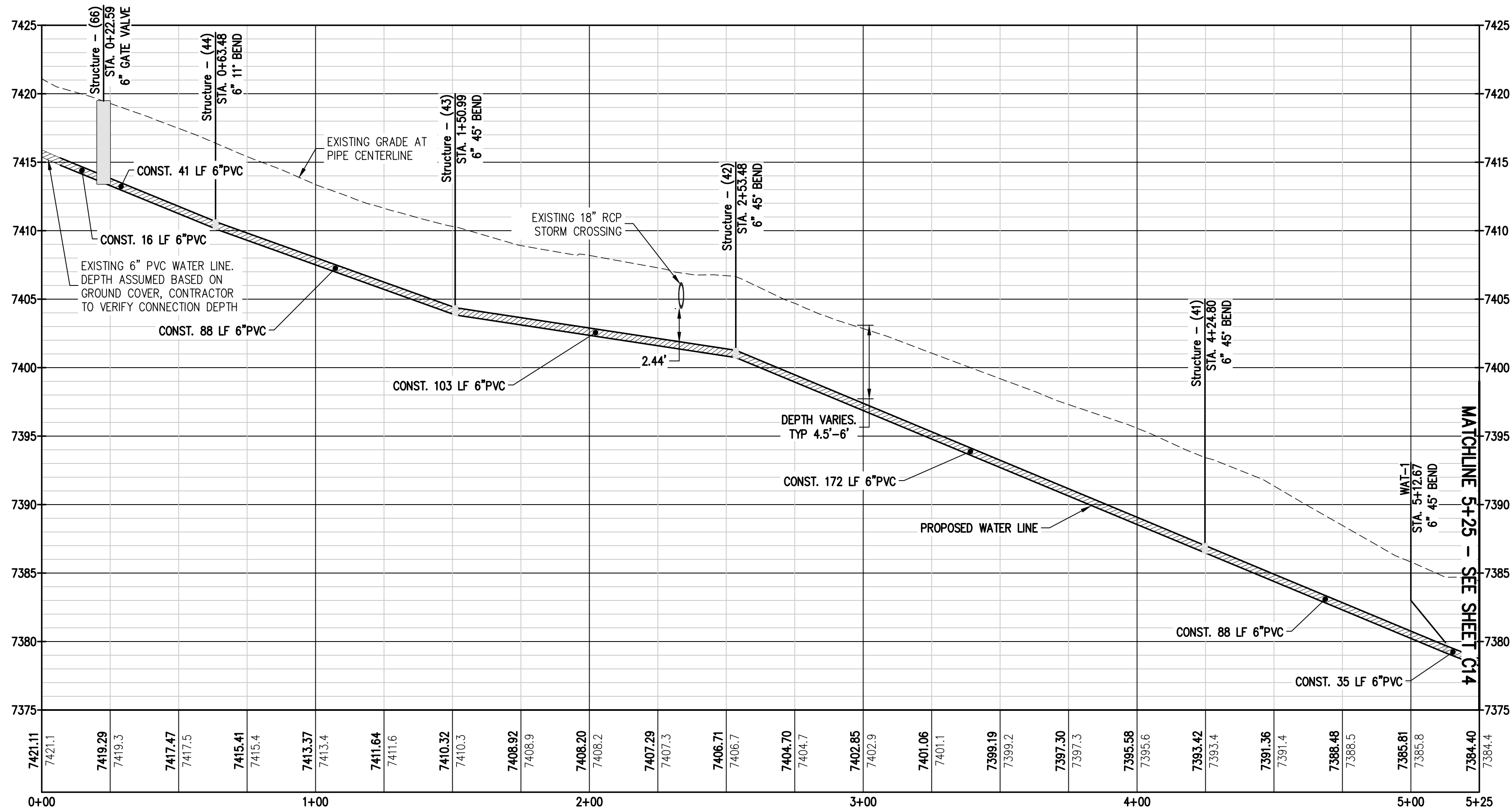
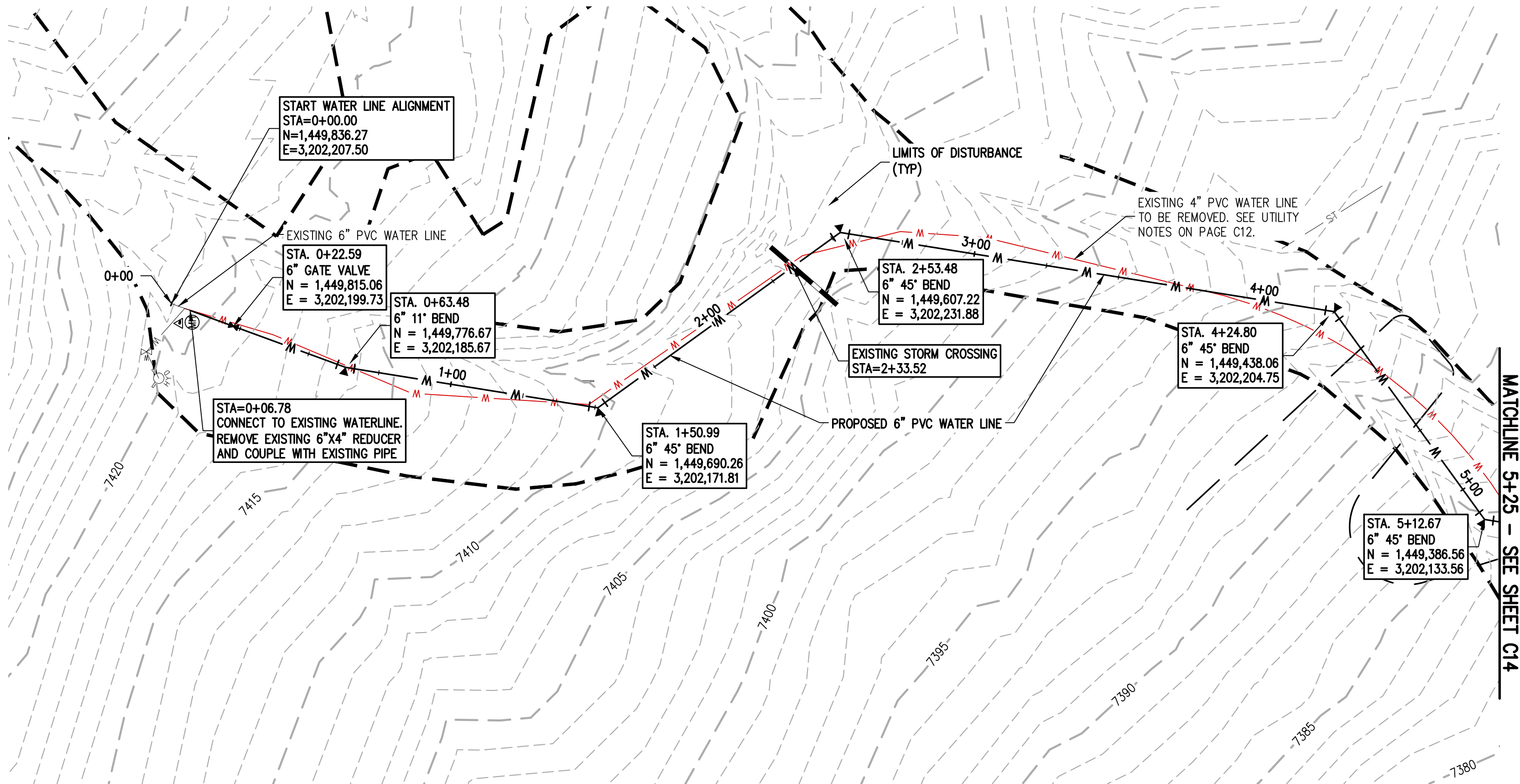
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BASELINE CORPORATION
INITIAL SUBMITTAL XX/XX/XX
DRAWING SIZE 24" X 36"
SURVEY FIRM SURVEY DATE
BASELINE 10/31/2023
JOB NO. C035069
DRAWING NAME
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SHEET 12 OF 16

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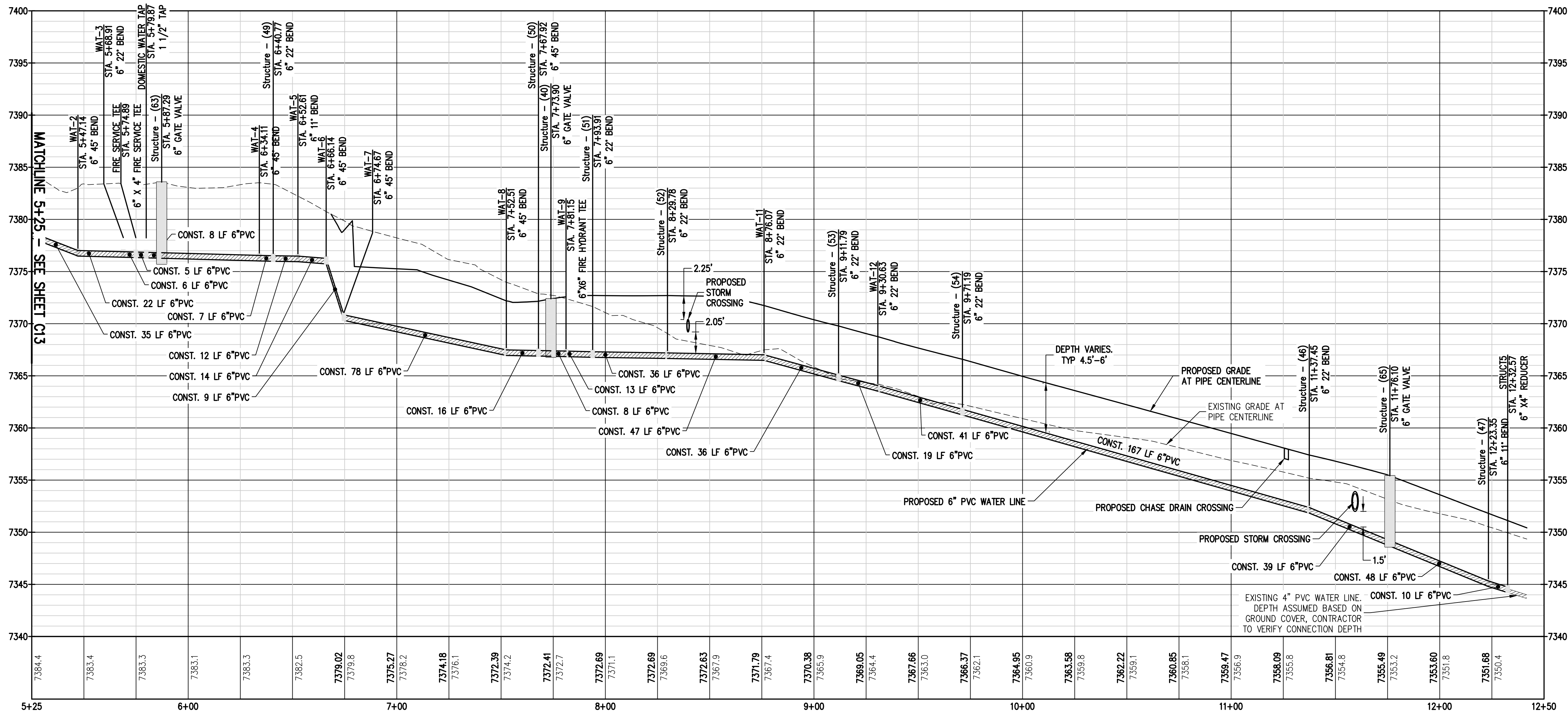
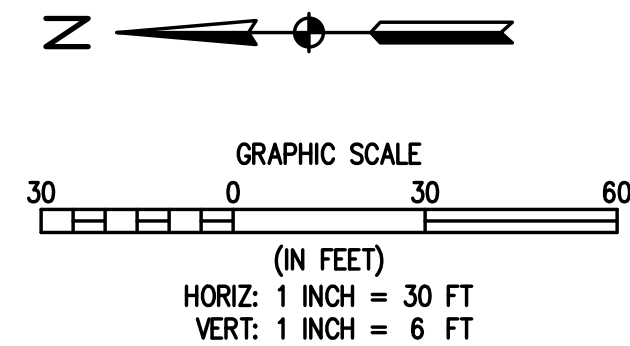
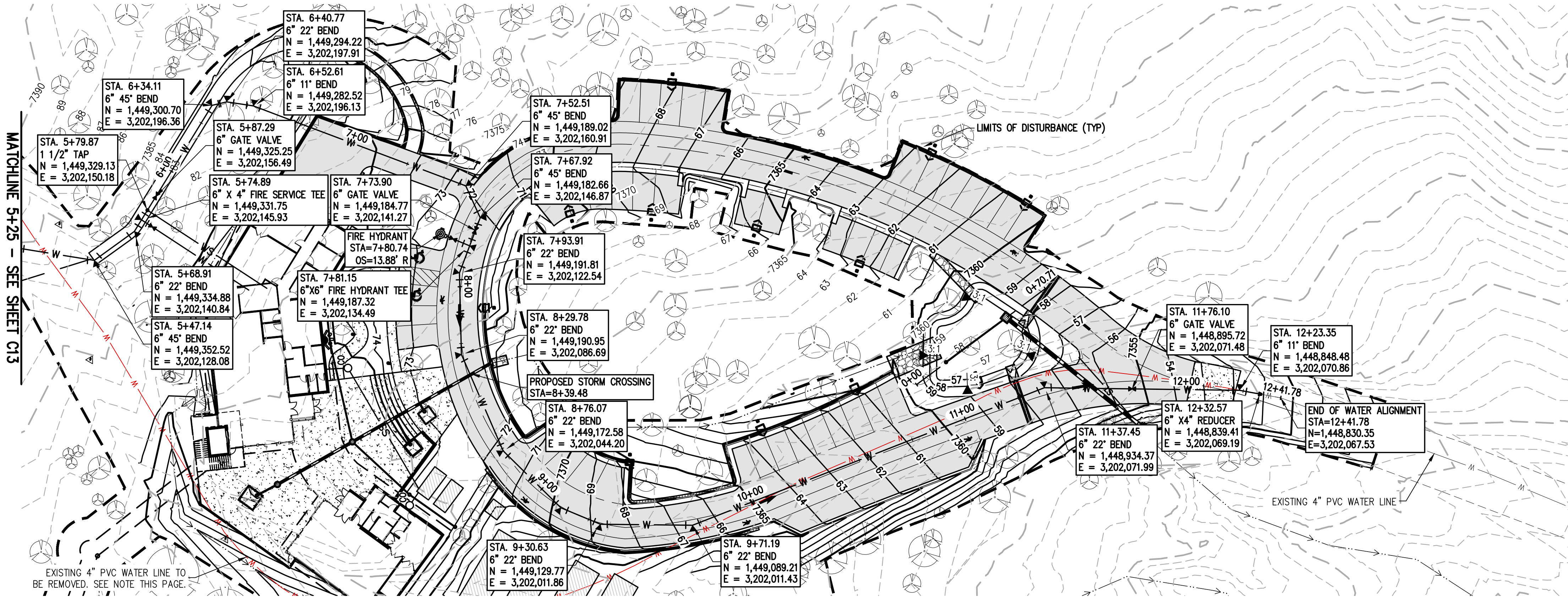
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5280	5280	MAJOR CONTOUR (5' INTERVAL)
81	81	MINOR CONTOUR (1' INTERVAL)
		EDGE OF GRAVEL
		EDGE OF ASPHALT
SAN	SAN	SANITARY SEWER MAIN
W	W	WATER LINE
ST	ST	STORM SEWER
EXISTING SYMBOLS	PROPOSED SYMBOLS	
		CONIFEROUS TREE
		CLEANOUT
		TYPE 'C' INLET
		ASPHALT PAVING -- REFER TO SOILS REPORT FOR PAVING SECTION
		CONCRETE PAVING



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FOX RUN NATURE CENTER	
OFF-SITE WATER SYSTEM PLAN	
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FOR AND ON BEHALF OF BASELINE CORPORATION	
INITIAL SUBMITTAL	XX/XX/XX
DRAWING SIZE	24" X 36"
SURVEY FIRM	BASELINE
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FOX RUN NATURE CENTER

ON-SITE WATER SYSTEM PLAN

FOR AND ON BEHALF OF
BASELINE CORPORATION

INITIAL SUBMITTAL
XX/XX/XX

DRAWING SIZE
24" X 36"

SURVEY FIRM
BASELINE

SURVEY DATE
10/31/2023

JOB NO.
C035069

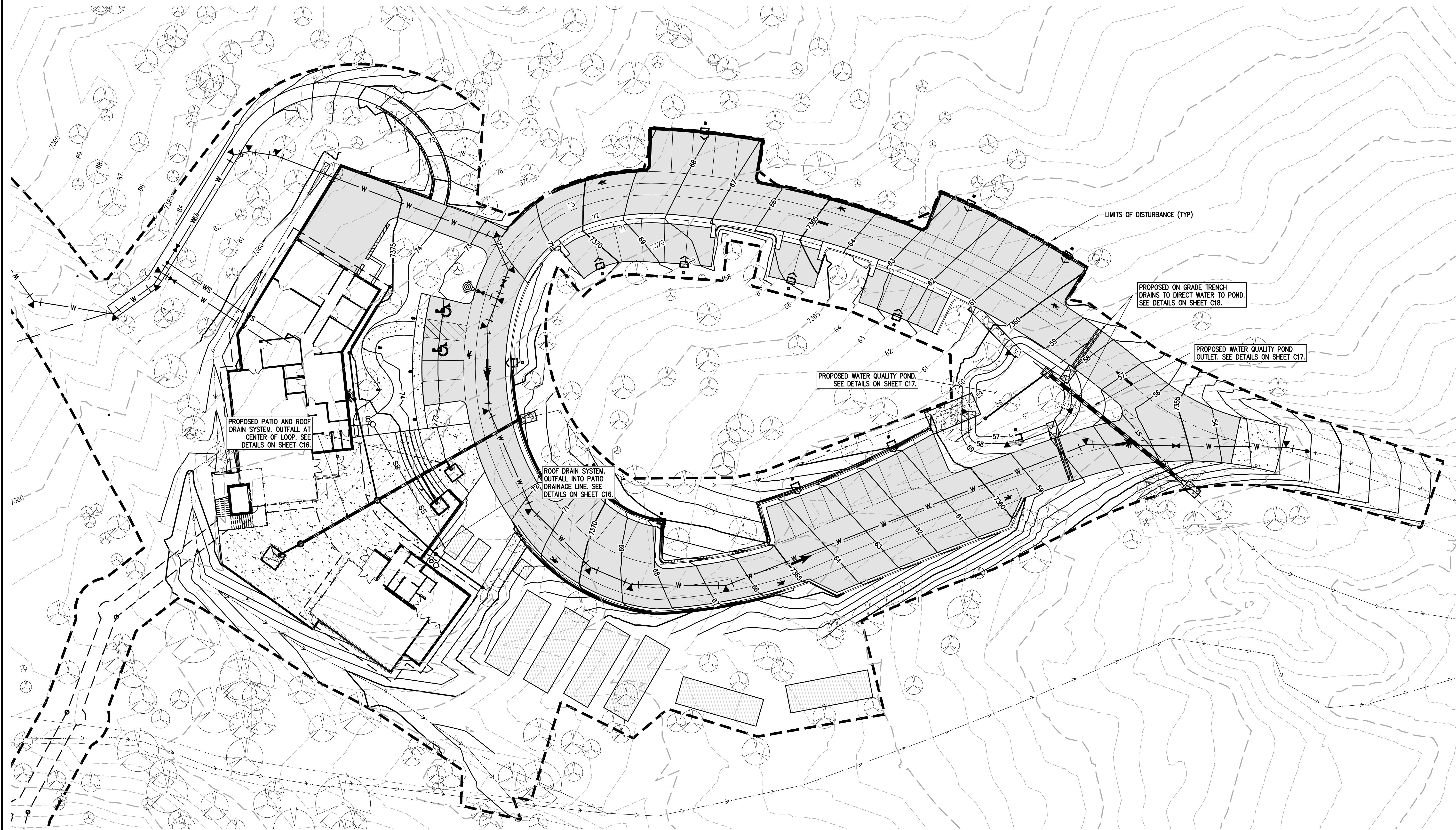
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SHEET
14 OF 16















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



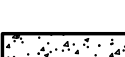
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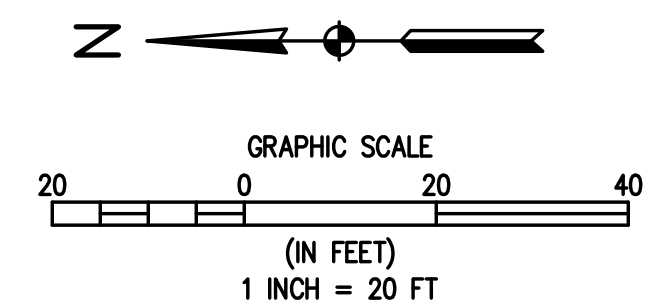


EXISTING LINETYPES

<u>EXISTING LINETYPES</u>	<u>PROPOSED LINETYPES</u>	
 —5280—	 —5280—	MAJOR CONTOUR (5' INTERVAL)
 —81—	 —81—	MINOR CONTOUR (1' INTERVAL)
		EDGE OF GRAVEL
		EDGE OF ASPHALT
 —SAN— —SAN—	 —SAN—	SANITARY SEWER MAIN
 —W— —W—	 —W—	WATER LINE
 —ST— —ST—		STORM SEWER

EXISTING SYMBOLS	PROPOSED SYMBOLS	
		CONIFEROUS TREE
		CLEANOUT
		TYPE 'C' INLET
		ASPHALT PAVING – REFER TO SOILS REPORT FOR PAVING SECTION
		CONCRETE PAVING

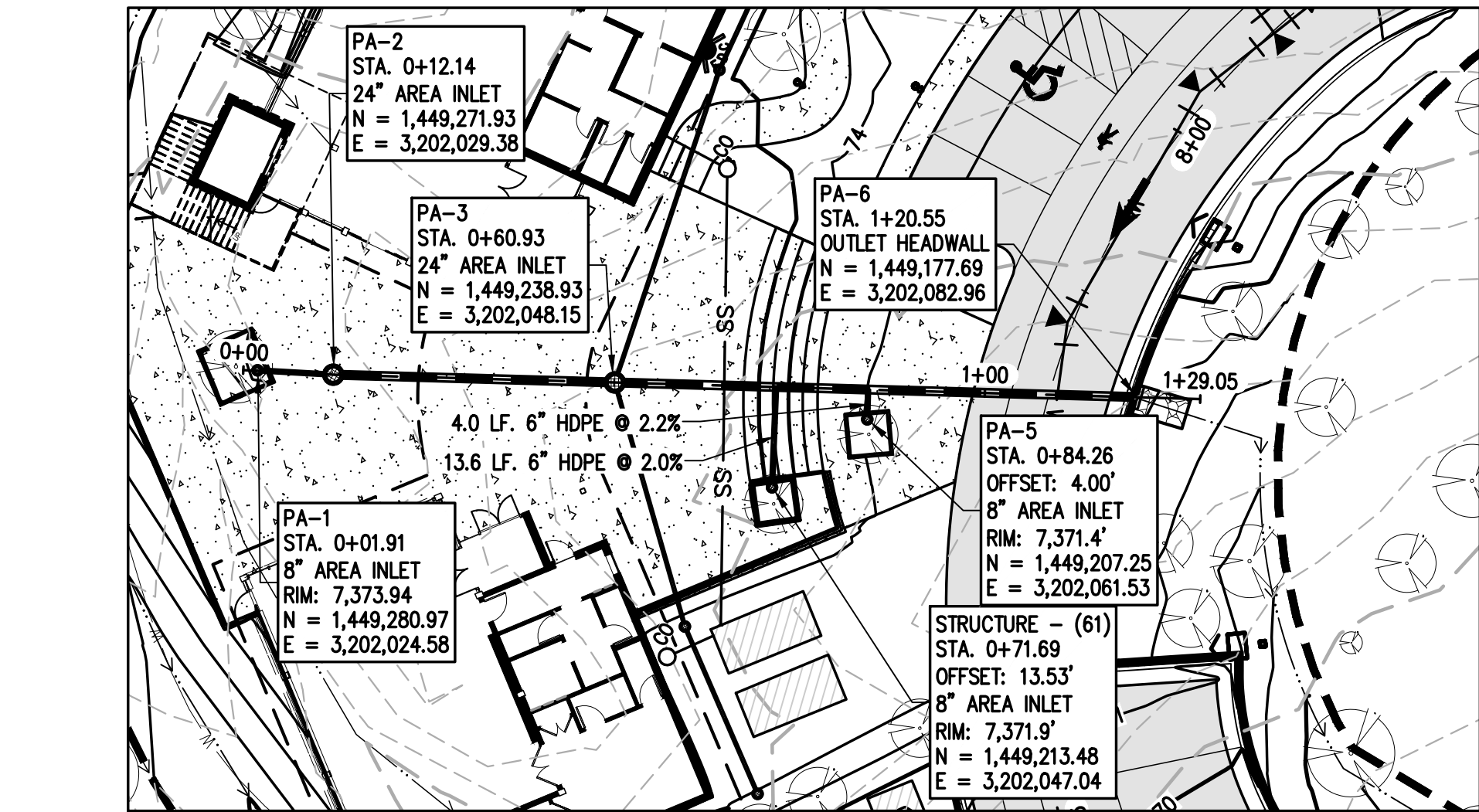
1. STORMWATER FACILITIES TO BE CONSTRUCTED TO THE LINES AND GRADES INDICATED ON THE PLANS. IN GENERAL, THE STORMWATER FACILITIES INCLUDE A DIVERSION SWALE TO DIRECT OFFSITE RUNOFF AROUND THE PROPOSED BUILDING AND IMPROVEMENTS; STORM SEWER FACILITIES AS REQUIRED TO COLLECT RUNOFF FROM THE PLAZA AREA, ROOF DRAINS, TREE WELLS AND THE ACCESS ROAD/PARKING LOT; AND A WATER QUALITY FACILITY TO TREAT DEVELOPED RUNOFF.
2. A DIVERSION SWALE WILL BE GRADED AS SHOWN ON THE PLANS TO DIVERT OFFSITE RUNOFF FROM THE NORTH AND NORTHWEST AROUND THE PROPOSED IMPROVEMENTS. SWALE DEPTH VARIES TO A MAXIMUM DEPTH OF 3.15 FEET +/- SWALE SIDE SLOPE TO BE 4:1 AND WILL BE PROTECTED WITH AN EROSION BLANKET FOR ITS FULL SECTION AS VEGETATION IS RE-ESTABLISHED.
3. STORM SEWER WILL BE CONSTRUCTED IN THE PLAZA AREA TO COLLECT RUNOFF FROM THE PLAZA, ROOF DRAINS AND TREE WELLS. STORM SEWER PIPING WILL BE HDPE PIPE OF THE SIZES INDICATED AND INSTALLED TO THE GRADES SHOWN ON THE PLANS. PLAZA INLETS WILL BE 24" DIAMETER AREA INLETS WITH PEDESTRIAN SAF GRATES AND TREE WELL INLETS WILL BE 8" DIAMETER AREA INLETS. ROOF DRAINS WILL BE CONNECTED TO THE PLAZA DRAIN AS INDICATED ON THE PLANS. THE PLAZA STORM SEWER WILL OUTFALL INTO THE AREA INSIDE THE ACCESS ROAD LOOP. A RIPRAP PAD WILL PROTECT THE OUTFALL AND THE NATURAL CONTOURS WILL DIRECT THE RUNOFF TO THE WATER QUALITY FACILITY.
4. TRENCH DRAINS WILL BE CONSTRUCTED ACROSS THE ACCESS ROAD ON EACH SIDE OF THE WATER QUALITY FACILITY TO DIRECT ROAD RUNOFF INTO THE FACILITY.
5. THE WATER QUALITY FACILITY WILL BE A RAIN GARDEN FACILITY THAT INCLUDES A GROWING MEDIUM WITH A 4" DIAMETER SLOTTED UNDERDRAIN, TYPE C OUTLET STRUCTURE AND AN 18" RCP OUTLET PIPE. ROCK RIPRAP RUNDOWNS ARE TO BE CONSTRUCTED TO DIRECT ROADWAY RUNOFF INTO THE WATER QUALITY FACILITY. CONSTRUCT WATER QUALITY FACILITY PER APPROVED PLANS AND PER PERTINENT EL PASO COUNTY CRITERIA.
6. ALL STORMWATER CONSTRUCTION TO BE IN ACCORDANCE WITH THE APPROVED DRAINAGE REPORT AND EL PASO COUNTY ENGINEERING CRITERIA MANUAL UNLESS OTHERWISE NOTED.
7. REVEGETATION OF THE WATER QUALITY FACILITY TO BE IN ACCORDANCE WITH RAIN GARDEN REQUIREMENTS AND THE APPROVED LANDSCAPE PLANS.



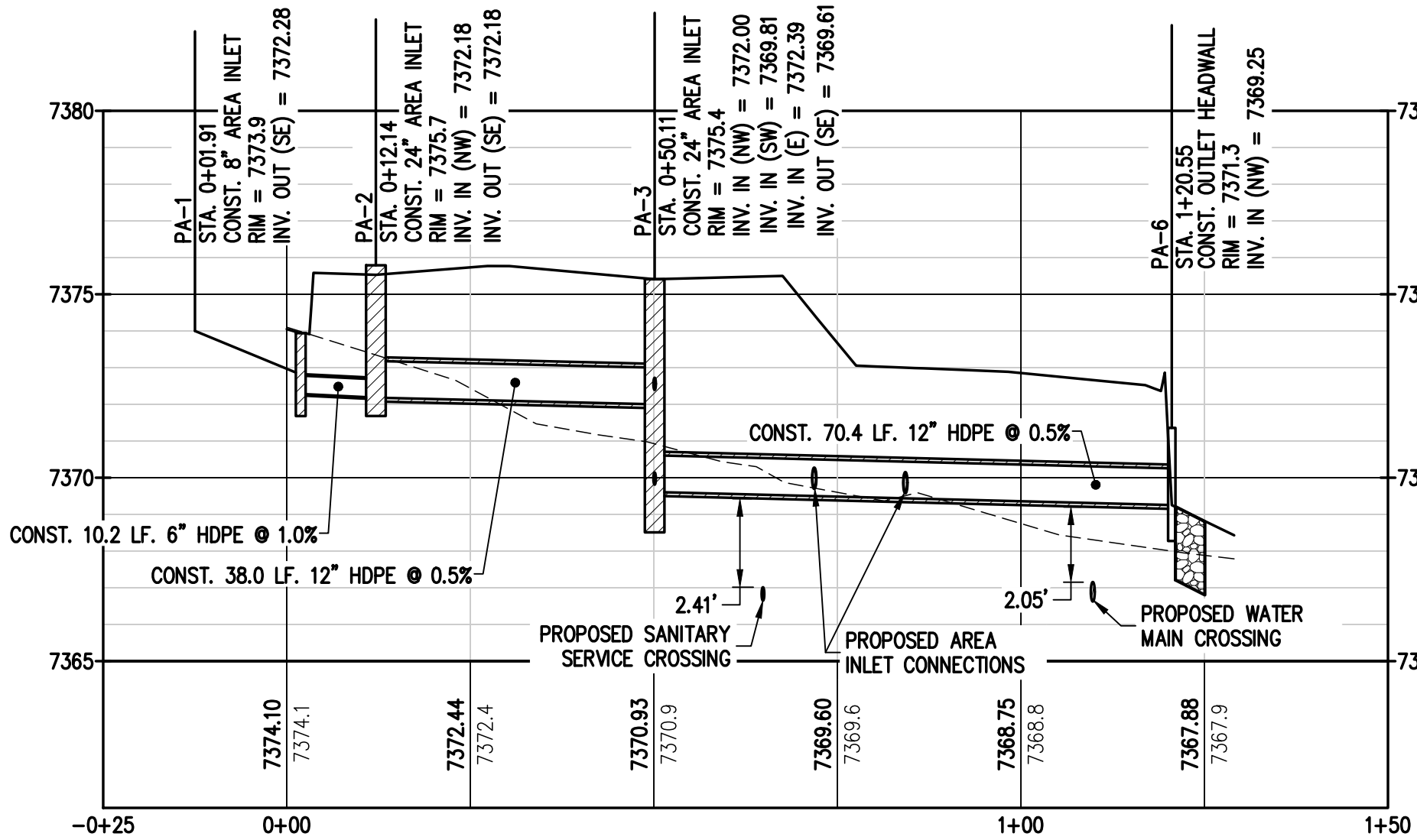
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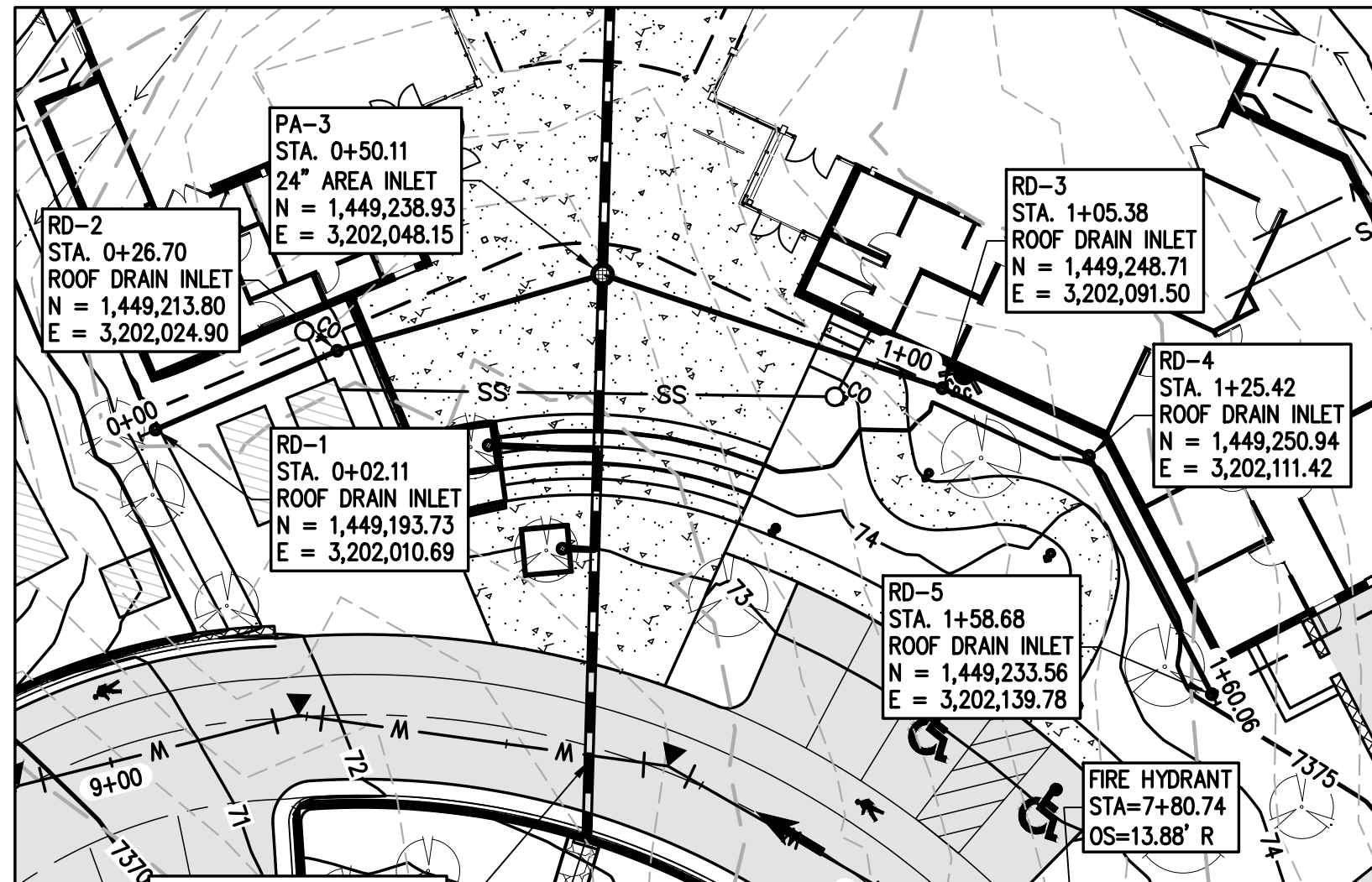
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5280	5280	MAJOR CONTOUR (5' INTERVAL)	81	81	MINOR CONTOUR (1' INTERVAL)
81	81	EDGE OF GRAVEL	1	1	EDGE OF ASPHALT
SAN	SAN	SANITARY SEWER MAIN	1	1	TYPE 'C' INLET
W	W	WATER LINE	1	1	ASPHALT PAVING - REFER TO SOILS REPORT FOR PAVING SECTION
ST	ST	STORM SEWER	1	1	CONCRETE PAVING



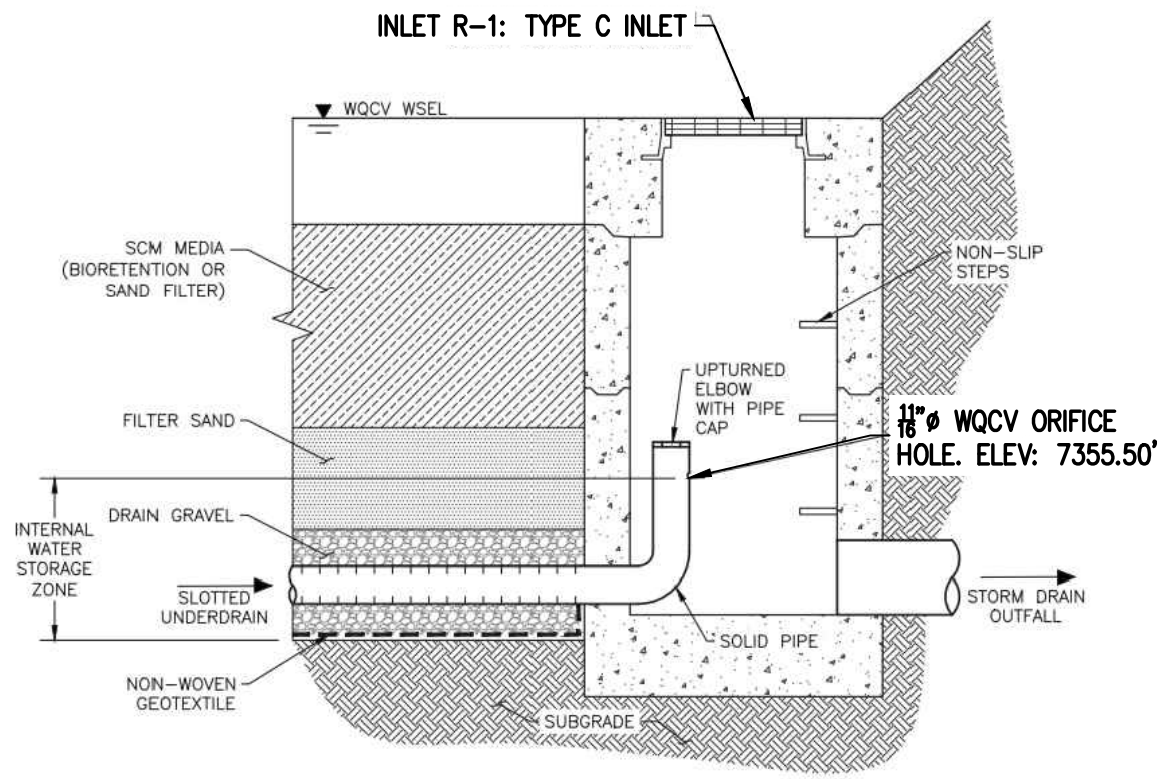
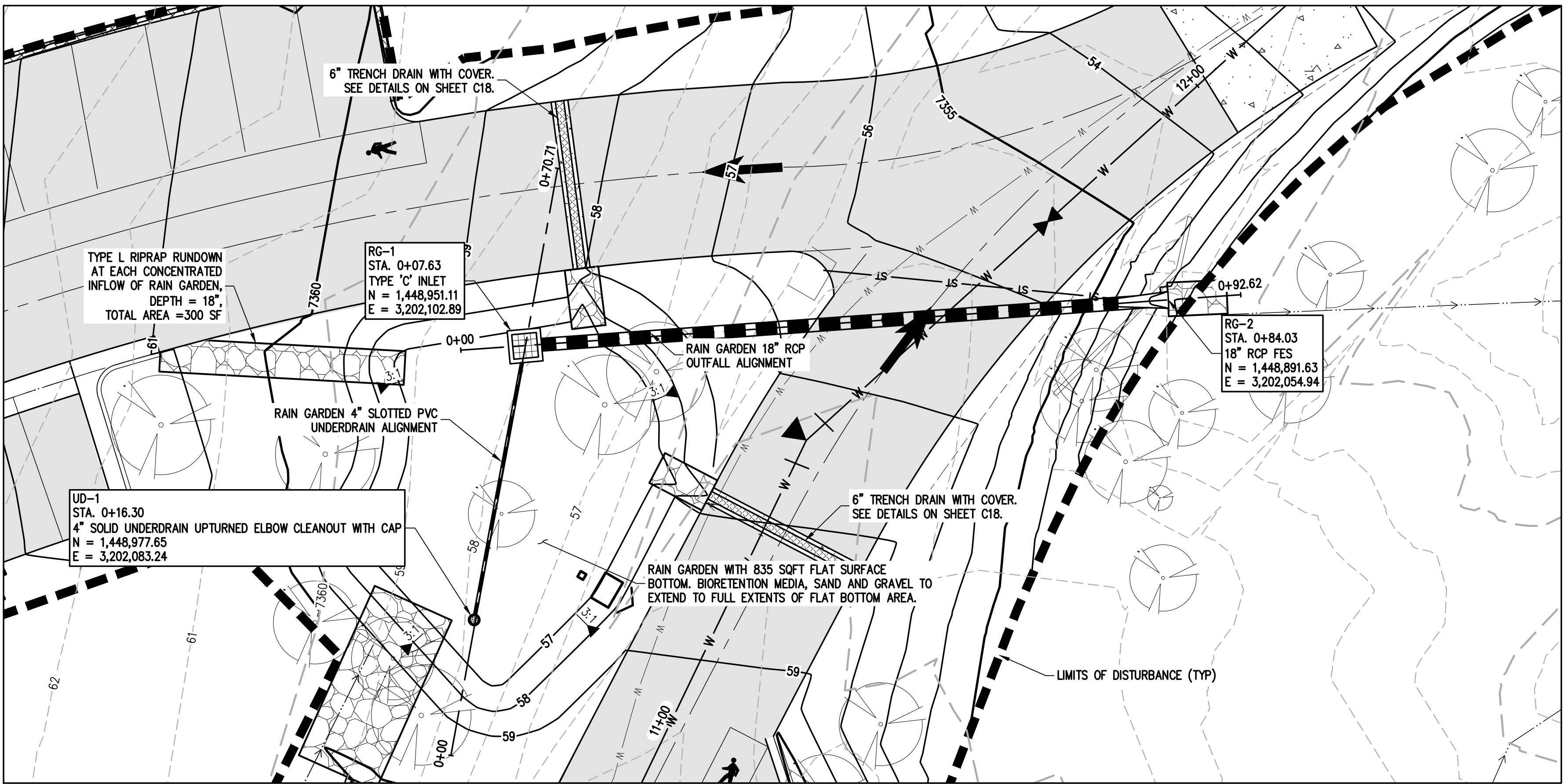
PATIO DRAIN PLAN



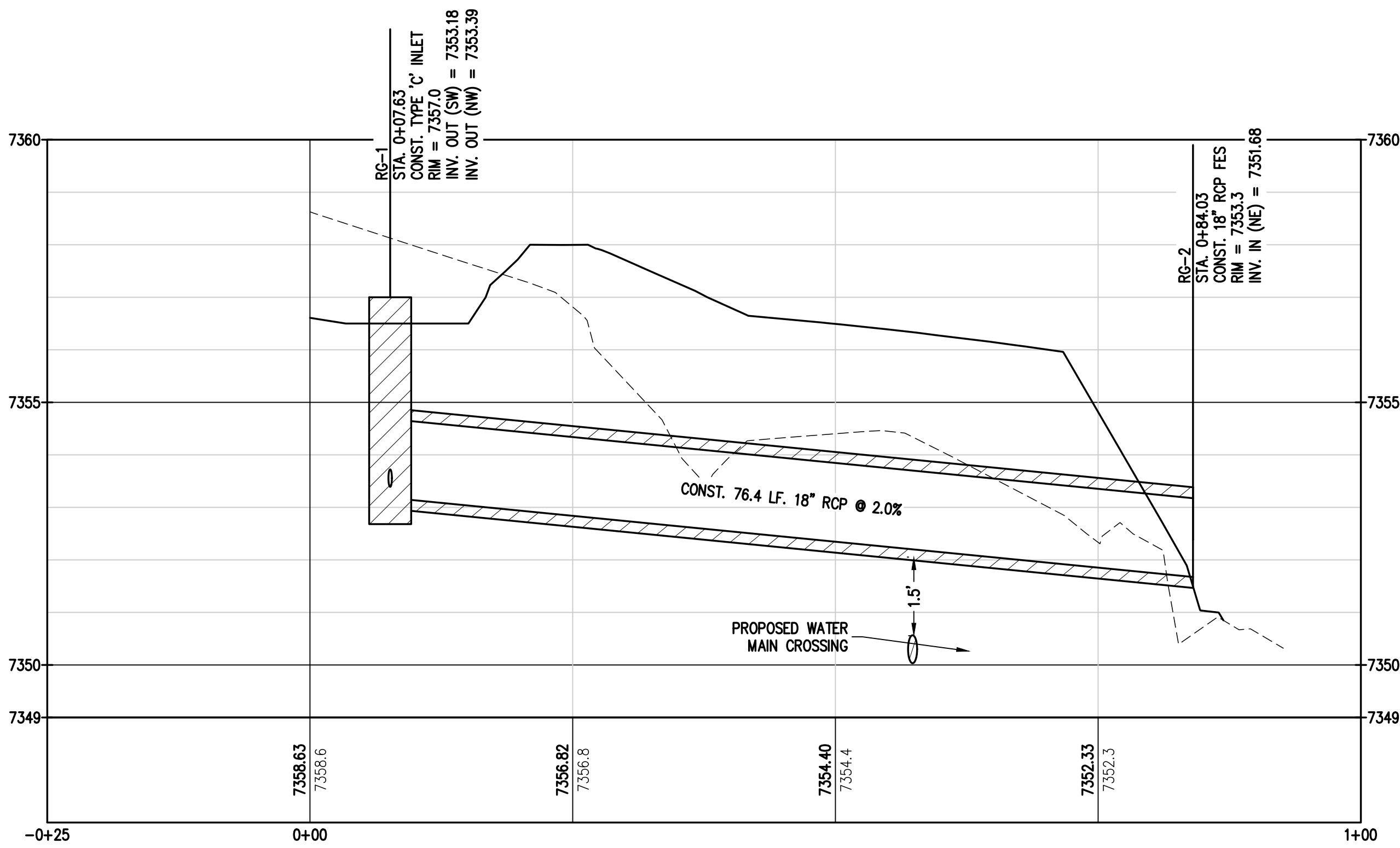
PATIO DRAIN PROFILE



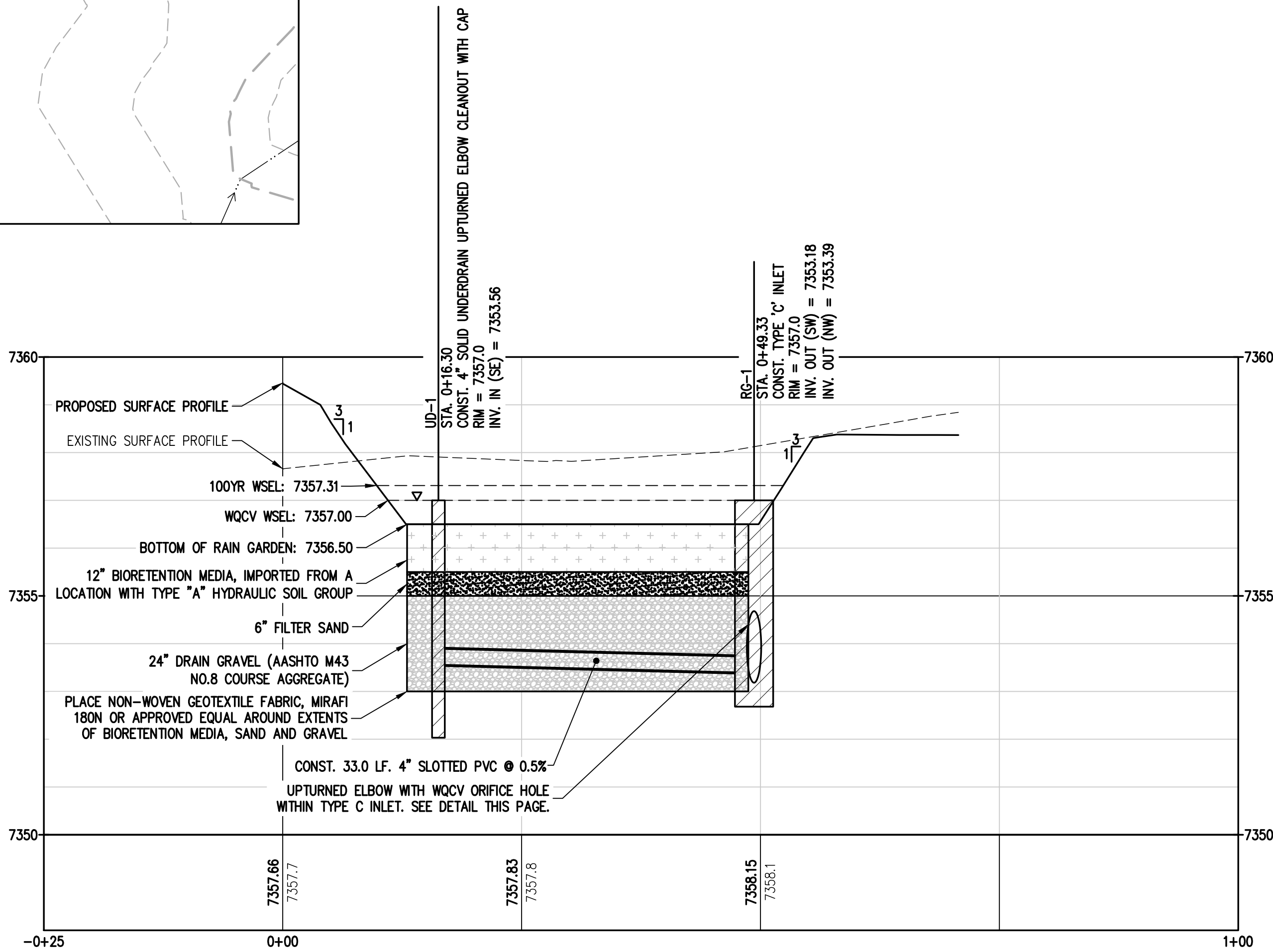
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RAIN GARDEN INLET WITH UPTURNED ELBOW



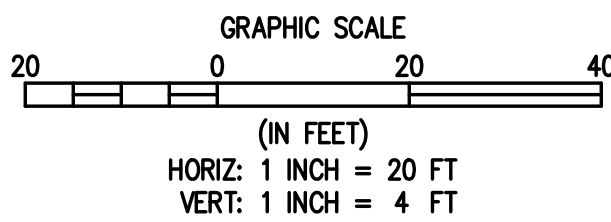
RAIN GARDEN 18" RCP OUTFALL PROFILE



RAIN GARDEN 4" SLOTTED PVC UNDERDRAIN PROFILE

LEGEND

EXISTING LINETYPES	PROPOSED LINETYPES	EXISTING SYMBOLS	PROPOSED SYMBOLS
5280	5280	CONIFEROUS TREE	CLEANOUT
81	81	TYPE 'C' INLET	ASPHALT PAVING - REFER TO SOILS REPORT FOR PAVING SECTION
			CONCRETE PAVING
SAN	SAN		
W	W		
ST	ST		



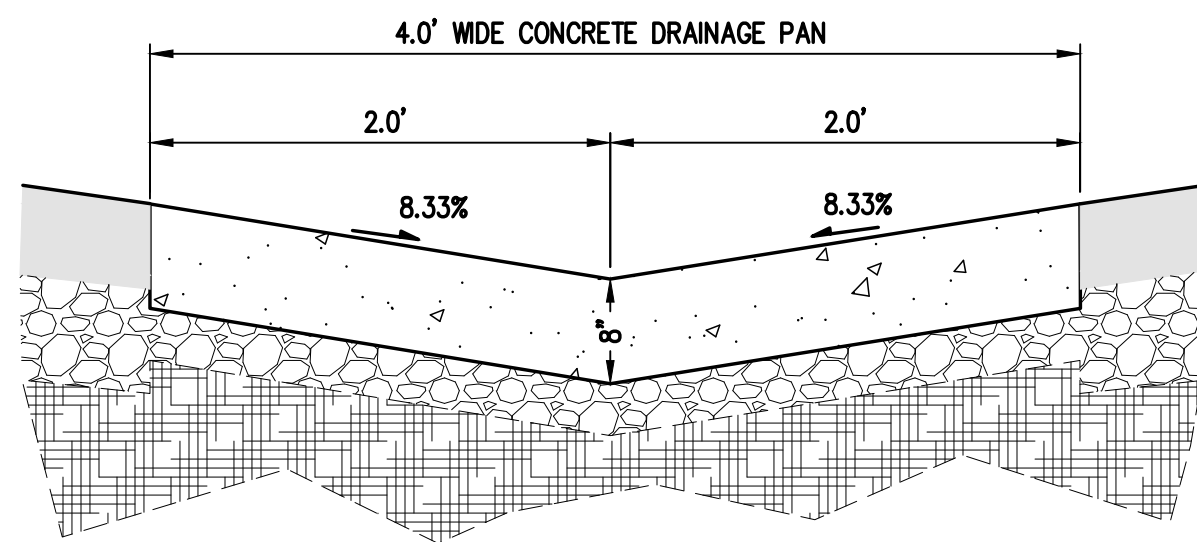
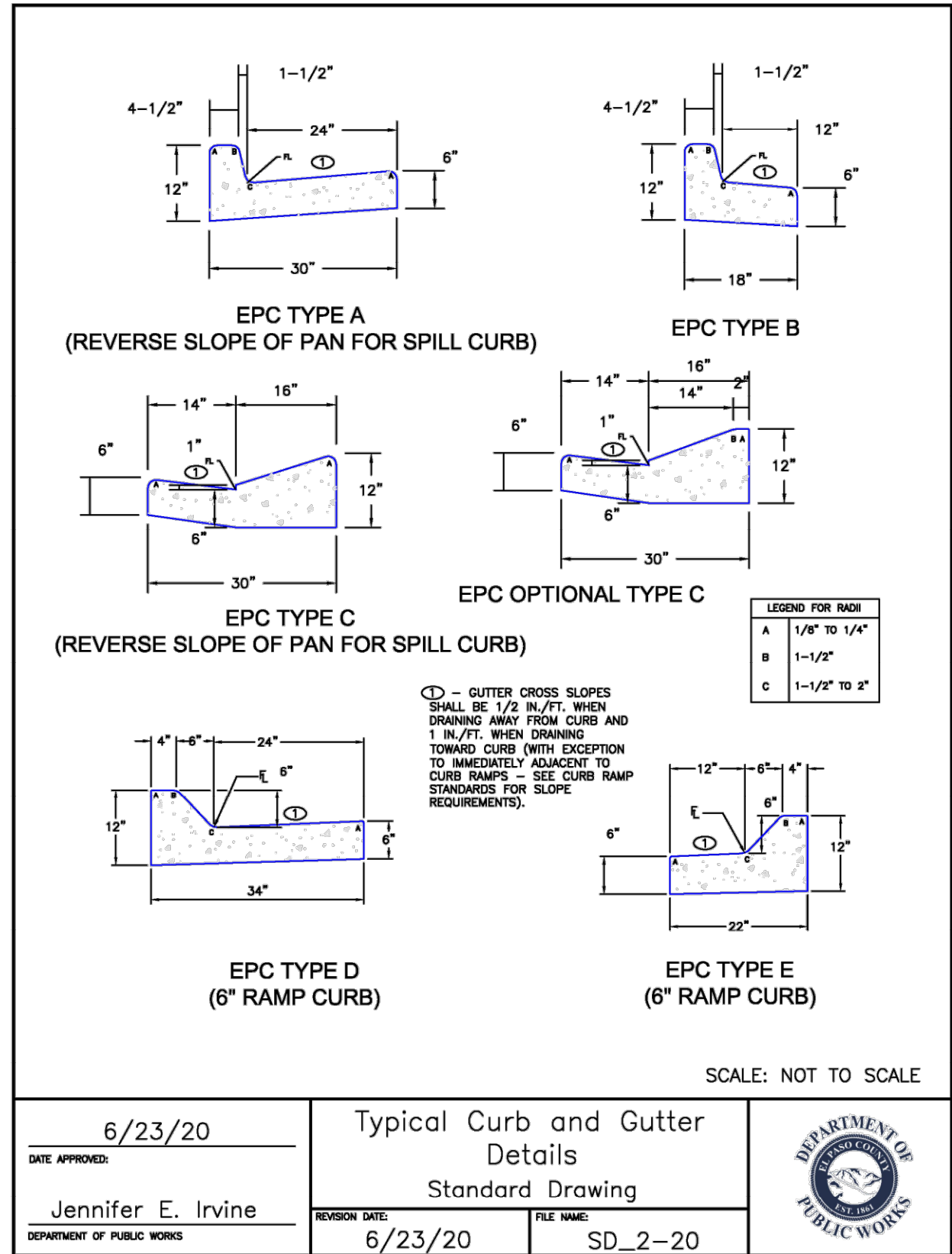
DESIGNED BY	DATE	PREPARED BY	REVISION DESCRIPTION
AJL	06/26/2024		60 % DESIGN SET
AW			
AJL			
SGB			

EL PASO COUNTY PARKS	EL PASO COUNTY
FOX RUN NATURE CENTER	
POND PLAN AND PROFILE	

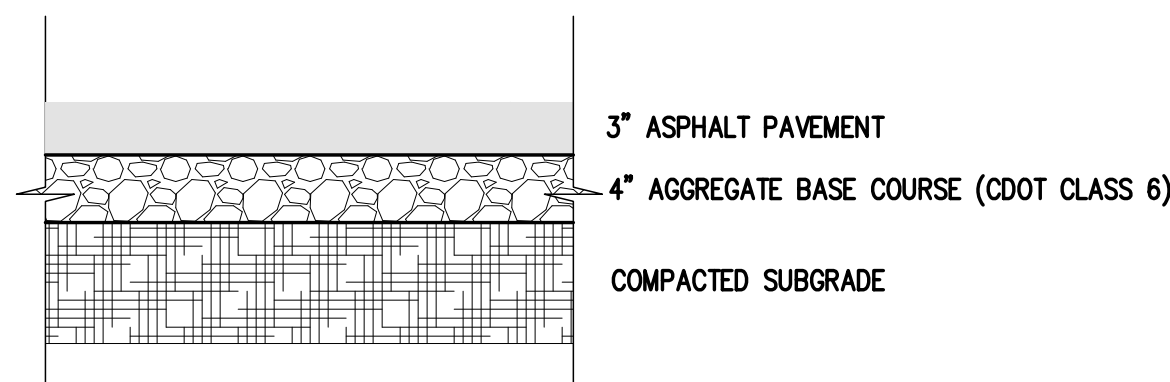
PREPARED UNDER THE DIRECT SUPERVISION OF

PRELIMINARY
NOT FOR
CONSTRUCTION

FOR AND ON BEHALF OF BASELINE CORPORATION	INITIAL SUBMITTAL	XX/XX/XX
DRAWING SIZE	24" X 36"	
SURVEY FIRM	BASELINE	SURVEY DATE 10/31/2023
JOB NO.	C035069	
DRAWING NAME	35069 Utility Plan.dwg	
SHEET	17	OF 16



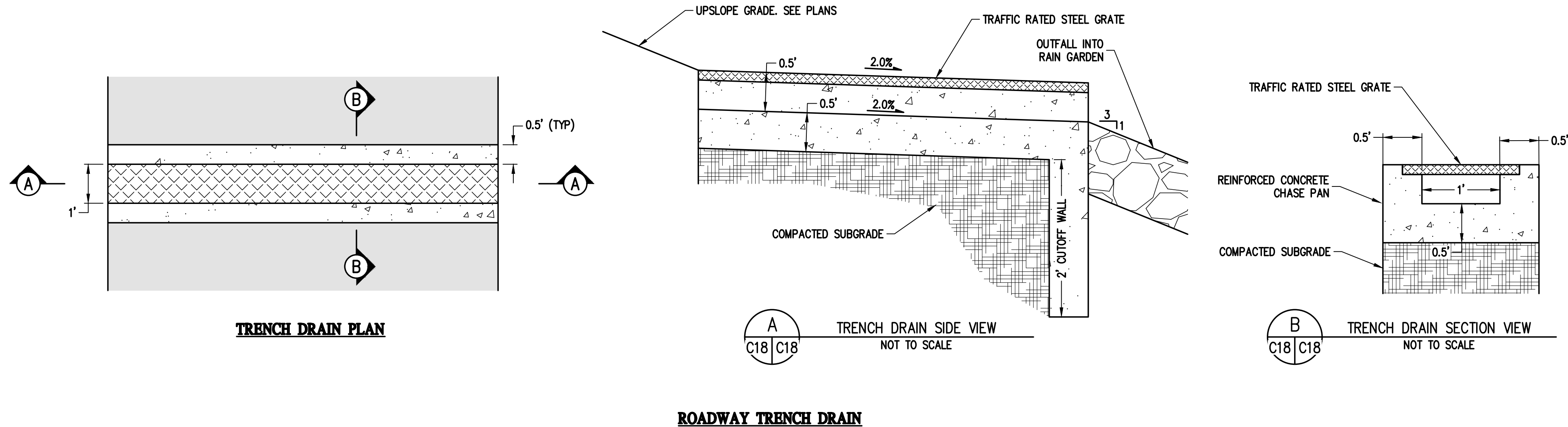
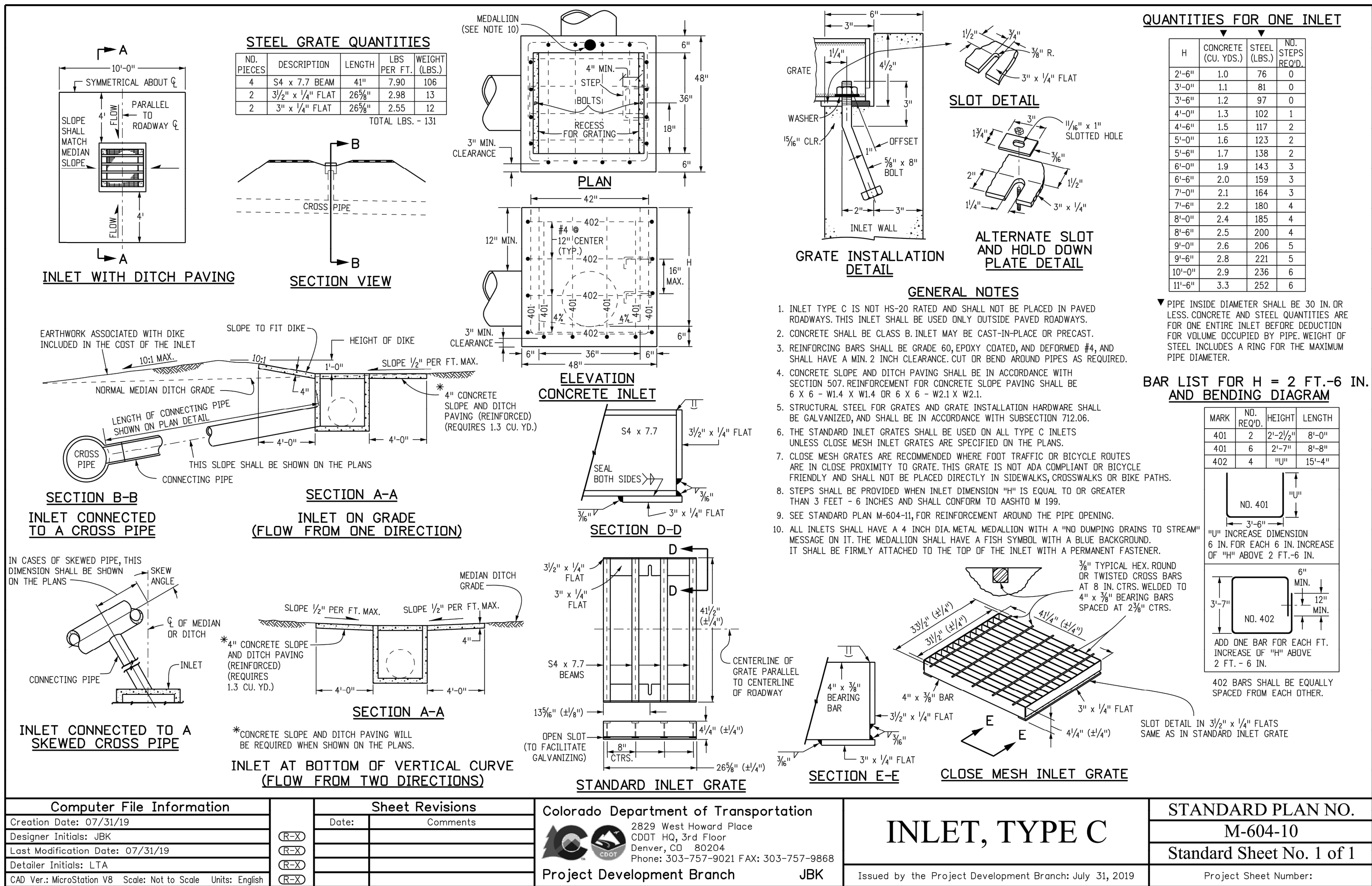
CONCRETE PAN SECTION



NOTE:

ASPHALT SECTION SHOWN BASED ON TABLE D-2- MINIMUM PAVEMENT SECTIONS IN EL PASO COUNTY ENGINEERING CRITERIA MANUAL FOR LOCAL ROADS. FINAL PAVEMENT SECTION TO BE DETERMINED BY GEOTECHNICAL ENGINEER IN PAVEMENT DESIGN REPORT.

ASPHALT PAVEMENT SECTION



NOTES:
Site conditions require a designed septic system. We recommend a septic tank and pressurized absorption field system. A pumping chamber with control panel will be required.

DESIGN CRITERIA:
El Paso County Health Department: Onsite Wastewater Treatment System (OWTS) Regulations Dated May 23, 2018 effective July 7, 2018.

PROFILE PITS:
Six test pit excavation were observed by Entech Engineering, Inc. The results of those observations are included in a OWTS Site Evaluation dated November 17, 2023, Revised March 8, 2024, Entech Job No. 231597. A Long Term Acceptance Rate (LTAR) value of 0.35 gallons per square foot per day was recommended for Treatment Level 1, Soil Type 3. A Maximum Long Term Acceptance Rate (LTAR) value of 0.80 gallons per square foot per day was recommended was recommended for Treatment Level 3, with a 3'-0" Sand Filter provided the sand clay loam is fully penetrated. Bedrock was not encountered in the test pits. Redoximorphic Features were not encountered in the test pits.

DESIGN DATA - Pike's Peak Maintenance Building:
5 Full Time Employees @ 15 Gallons Per Day Per Person = 75 Gallons Per Day (GPD)
385 Short Term Visitors @ 5 Gallons Per Day Per Person = 1,925 Gallons Per Day (GPD)
390 Person Occupancy Load = 2,000 Gallons Per Day (GPD)

DESIGN FLOW:
2,000 GPD

SOIL TYPE:
Type 1, R-0, Maximum LTAR of 0.80 with Minimum 3'-0" Sand Filter, Treatment Level 3

SEPTIC TANK:
The septic tank capacity should be a minimum of 4,000 gallons (suitable for 2,000 GPD flow rate). The septic tank shall comply with El Paso County Health Department regulations. The tank should be checked periodically and pumped as needed. Risers for tank shall also be traffic rated.

TRAFFIC RATED PUMPING CHAMBER:
A Lindsay Pre-Cast or similar pumping chamber with a minimum capacity of 1,000 gallons shall be sealed at all joints and shall be coated with a suitable asphaltic waterproofing. A pump with a high water alarm shall be installed in the pumping chamber. The pumping chamber shall comply with El Paso County Health Department regulations. Periodic monitoring of water usage is recommended to adjust dosing to 5 to 6 doses per day, with a 330 gallon minimum dose. Install check valve / air release valve to permit line to drain to pumping tank or to field.

INSTALLATION OBSERVATION:
The installation of the septic system shall be observed to check compliance with the design. Recommended observations include:
1) A meeting with Entech, builder, homeowner, and the installer to stake the field locations.
2) Site observation during and after each bed is excavated (BEFORE SAND PLACEMENT).
3) Site observation of pipe installation, distribution valves and manifold assembly, pumping chamber, and verify that the stand pipes have been installed;
4) final site observation including soil cover over the bed.

PRE-CONSTRUCTION MEETING:
Contractor should contact Entech Engineering, Inc. to discuss installation and scheduling of recommended observations. A site meeting with an engineer from Entech Engineering, Inc., a El Paso County Health Officer and the OWTS contractor is required prior to excavation or installation of the field. The absorption field location will be finalized by the pre-construction meeting. The installed system minimum horizontal distances must be maintained from pertinent physical features according to El Paso County Health Department Regulations.

WATER
Any well must be located a minimum of 100 feet away from the soil treatment area.
The soil treatment area shall be 25 feet from any drainage.

CALCULATIONS

390 PERSONS

LTAR (0.80) 3'-0" SAND FILTER

BASIC REQUIRED AREA

$A = \frac{Q}{LTAR}$

FOR BED SYSTEM (CHAMBERS)

Q = 2,000 GPD

0.80 - SAND FILTER, TREATMENT LEVEL 1 (LTAR)

10 - BED (PRESSURE DISTRIBUTION)

10 - SIZE ADJUSTMENT FACTOR (CHAMBERS)

$A = \frac{(2,000)(10)(10)}{0.80}$

A= 2,500 SF USE 2,592 SF

QUICK 4 = $\frac{2,592}{12}$ = 216

USE 216

TOTAL - 216 QUICK 4 INFILTRATORS

(6) BEDS WITH (4) ROWS OF 9 INFILTRATORS
FOR TOTAL OF 216 INFILTRATORS



VICINITY MAP
SCALE: N.T.S.



MODIFICATIONS TO THIS
DESIGN MAY BE REQUIRED,
TO BE DETERMINED AT THE
TIME OF SITE OBSERVATIONS.

PRELIMINARY NOT FOR CONSTRUCTION

REVISIONS	BY:

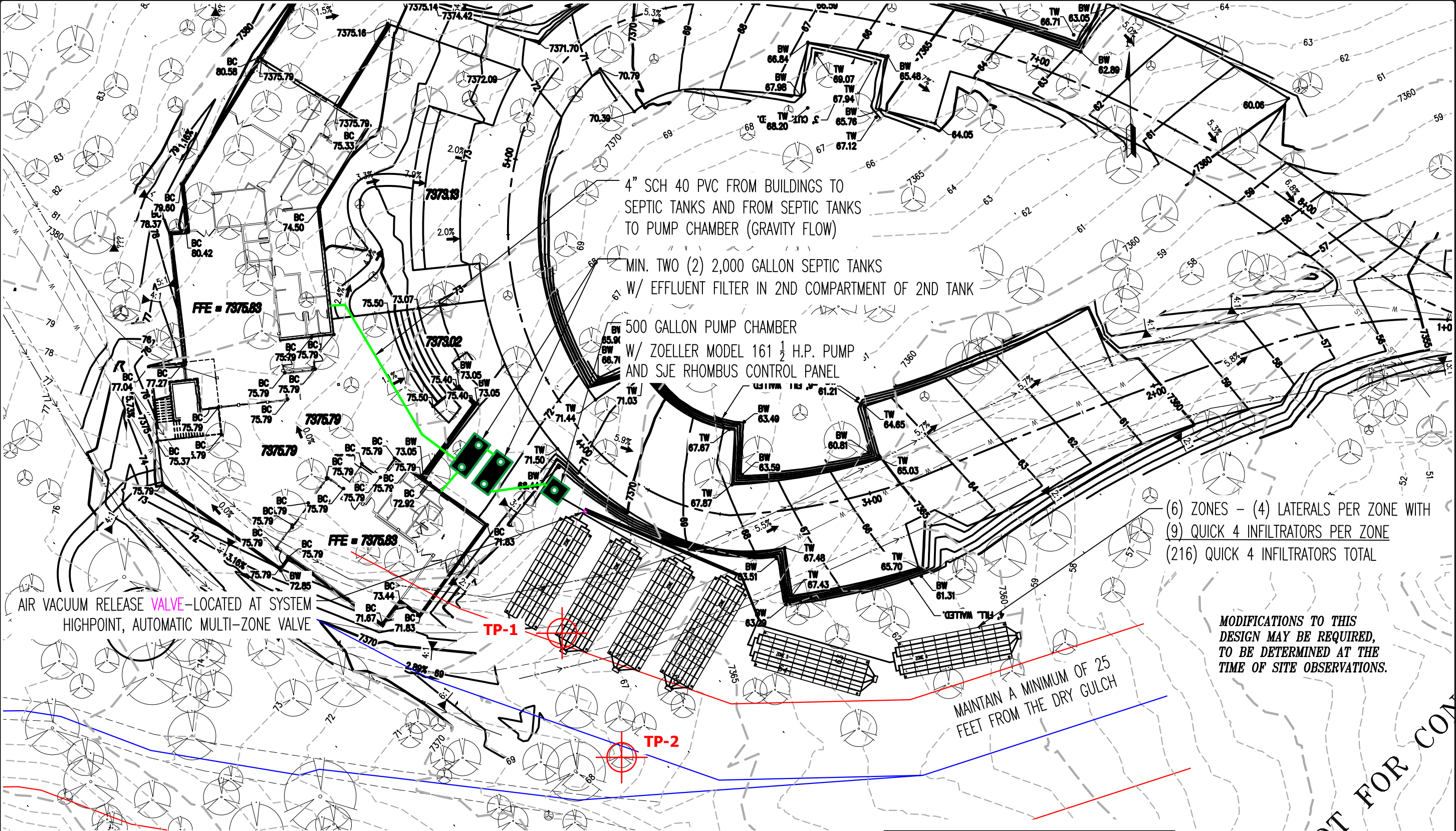
ENTECH
ENGINEERING, INC.

505 ELKTON DRIVE
COLORADO SPRINGS, CO. 80907

(719) 531-5599

ON-SITE WASTEWATER TREATMENT SYSTEM
2110 STELLA DRIVE
EL PASO COUNTY, COLORADO
FOR: TREMMEL DESIGN GROUP

DRAWN BY: R. JAQUET
DESIGNED BY: R. JAQUET
CHECKED BY: R. JAQUET
DATE: 3/8/2024
SCALE: AS SHOWN
JOB NO.: 231597
SHEET NO.: 1 OF 4



NOTE: BUILDERS/OWNERS SHOULD REVIEW THEIR COVENANTS TO VERIFY IF THERE ARE SETBACK OR LAND-CLEARING RESTRICTIONS THAT MIGHT AFFECT SYSTEM INSTALLATION, PRIOR TO CONSTRUCTION.

NOTE: THE CONFIGURATION OF THE BED SYSTEM CAN BE ALTERED TO ACCOMMODATE SITE SPECIFIC CONDITIONS AS APPROVED BY ENTECH

NOTE: LOCATE VALVE BOX AT THE "HIGH POINT" IN THE SYSTEM AND PROVIDE AIR RELEASE VALVE.

NOTE: ENGINEER TO REVIEW PROPOSED LAYOUT PRIOR TO CONSTRUCTION W/ OWNER & INSTALLER.

THE MAXIMUM SOIL COVER OVER THE TOP OF A SEPTIC TANK IS 48" UNLESS OTHERWISE APPROVED BY **EL PASO COUNTY**

ORIENTATION APPROXIMATE; COORDINATE EXACT LOCATION & ORIENTATION WITH ENGINEER ON-SITE, PRIOR TO CLEARING & CONSTRUCTION.

SITE PLAN
SCALE: 1" = 60'

ZONES MAY BE INSTALLED IN GROUPS AND SPACED AROUND SITE TO AVOID TREES ETC. THE LATERALS WITHIN EACH ZONE MUST BE AT THE SAME ELEVATION AND INSTALLED LEVEL.

(6) ZONES - (4) LATERALS PER ZONE WITH
(9) QUICK 4 INFILTRATORS PER ZONE
(216) QUICK 4 INFILTRATORS TOTAL

MODIFICATIONS TO THIS DESIGN MAY BE REQUIRED, TO BE DETERMINED AT THE TIME OF SITE OBSERVATIONS.

MAINTAIN A MINIMUM OF 25 FEET FROM THE DRY GULCH

REVISIONS	BY:

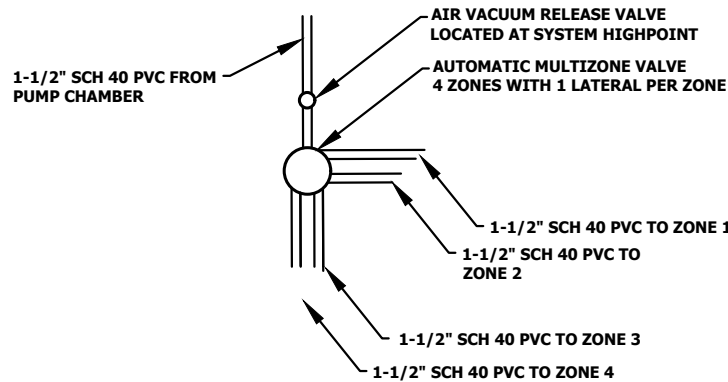
ENTECH
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ON-SITE WASTEWATER TREATMENT SYSTEM
2110 STELLA DRIVE
EL PASO COUNTY, COLORADO
FOR: TREMMEL DESIGN GROUP

DRAWN BY:	R. JAQUET
DESIGNED BY:	R. JAQUET
CHECKED BY:	R. JAQUET
DATE:	3/8/2024
SCALE:	AS SHOWN
JOB NO.:	231597
SHEET NO.:	2 OF 4

PRELIMINARY NOT FOR CONSTRUCTION

ZONES MAY BE INSTALLED IN GROUPS AND SPACED AROUND SITE TO AVOID TREES ETC. THE LATERALS WITHIN EACH ZONE MUST BE AT THE SAME ELEVATION AND INSTALLED LEVEL.



MULTIZONE DETAIL

SCALE: NOT TO SCALE

"Secondary" sand media requirements:

Effective size: 0.15-0.60 mm

Uniformity coefficient: ≤ 7.0

Percent fines passing #200 sieve: ≤ 3.0

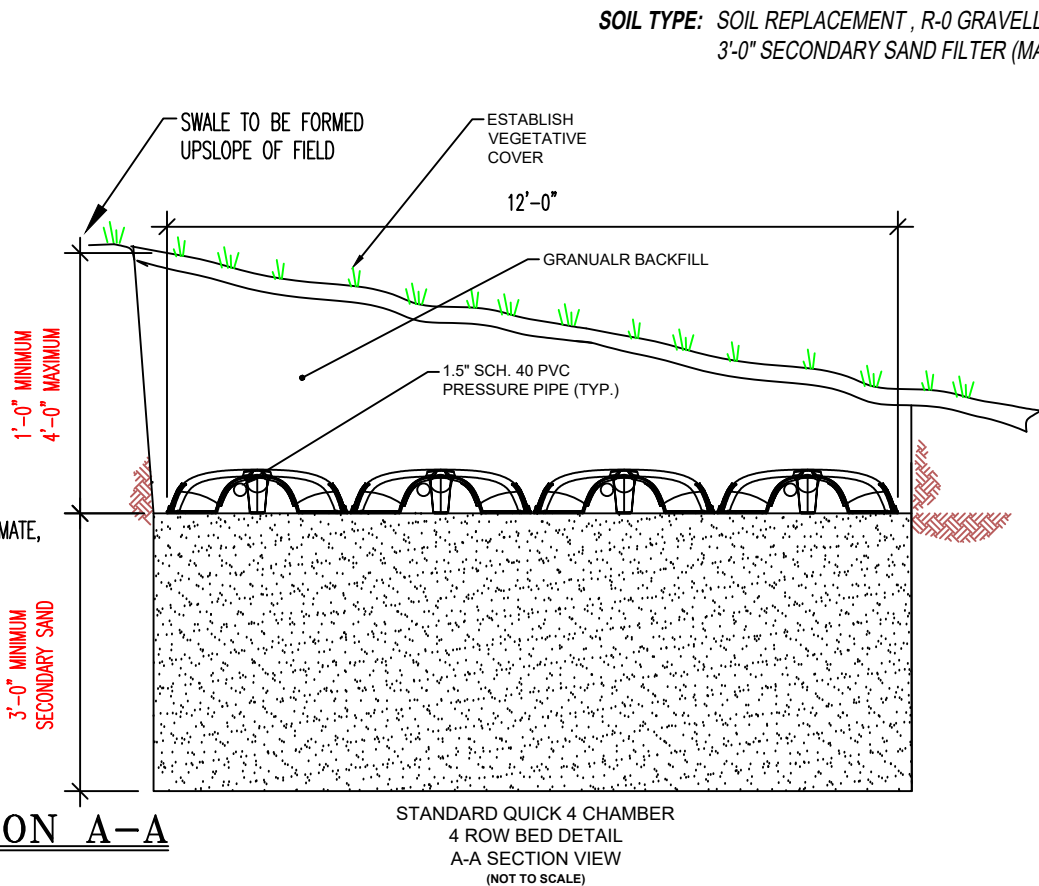
Sieve % Passing

# 3/8	100
# 4	95-100
# 8	85-100
# 16	50-85
# 30	25-60
# 50	10-30
# 100	Less than 8
# 200	Less than OR equal to 3

NOTE:
EXCAVATION DEPTH IS APPROXIMATE,
FIELD DETERMINE

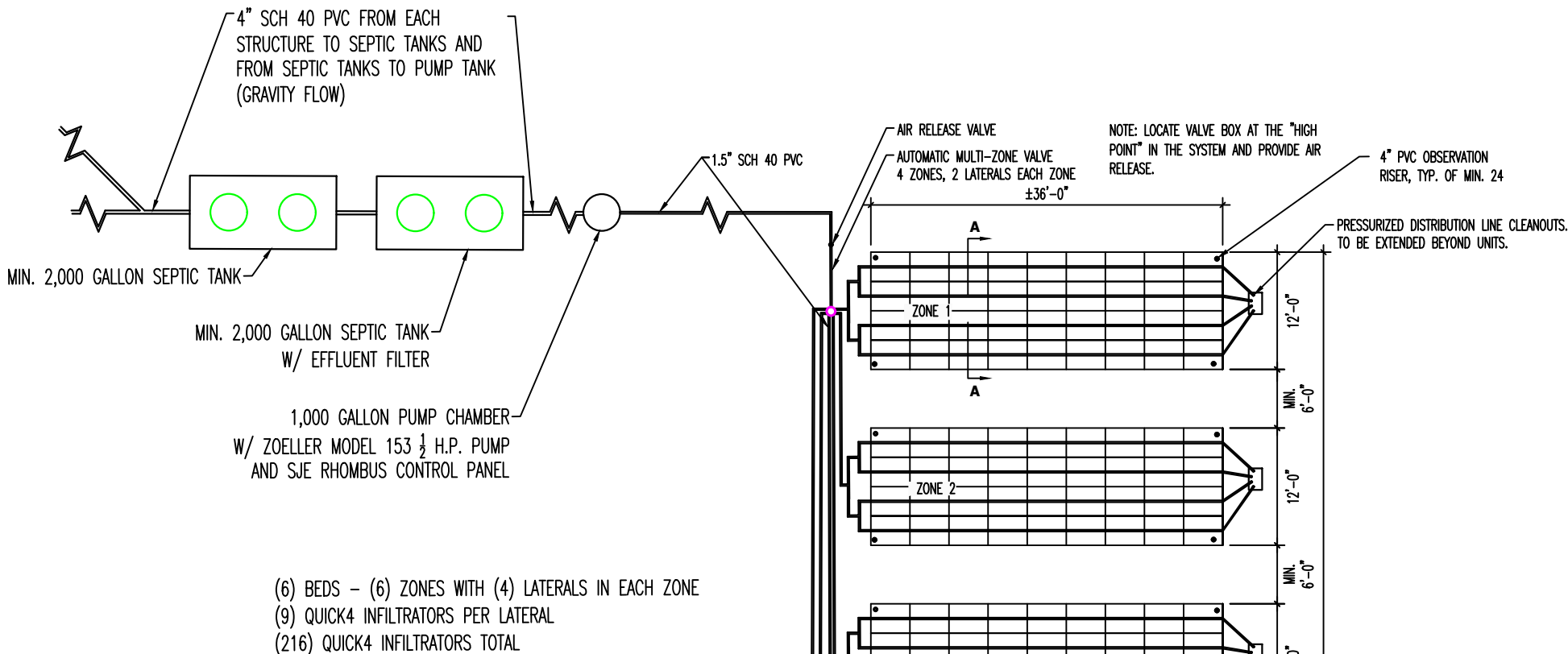
12" MINIMUM COVER
OVER LOW PROFILE
ARC36 INFILTRATORS

SECTION A-A



STANDARD QUICK 4 CHAMBER
4 ROW BED DETAIL
A-A SECTION VIEW
(NOT TO SCALE)

SOIL TYPE: SOIL REPLACEMENT, R-0 GRAVELLY LOAMY SAND
3'-0" SECONDARY SAND FILTER (MAXIMUM LTAR = 0.80)



1.5" SCH 40 PVC RIGID MANIFOLD
1.5" SCH 40 PVC PIPE LATERAL WITH ONE 3/16" HOLE @ 48" O.C. (STAGGER AT 10 O'CLOCK AND 2 O'CLOCK POSITIONS)- IN ADDITION TO DRAINAGE HOLES (EACH END)
STANDARD QUICK-4 (34"x48") INFILTRATORS (216 TOTAL)

ABSORPTION FIELD LAYOUT

SCALE: NOT TO SCALE

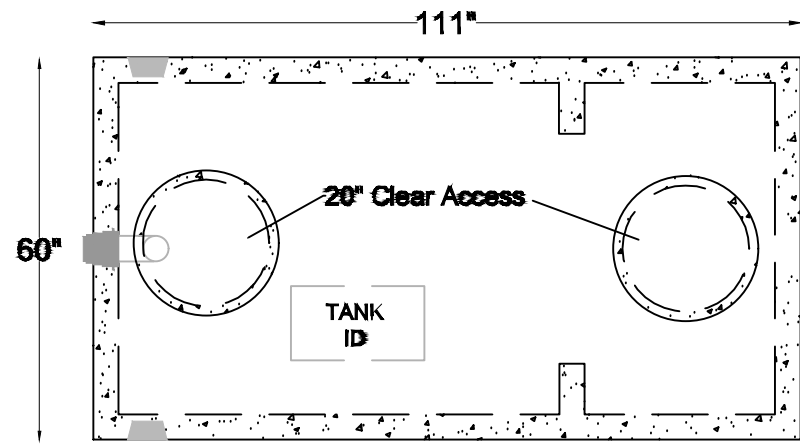
MODIFICATIONS TO THIS DESIGN MAY BE REQUIRED, TO BE DETERMINED AT THE TIME OF SITE OBSERVATIONS.

REVISIONS	BY:

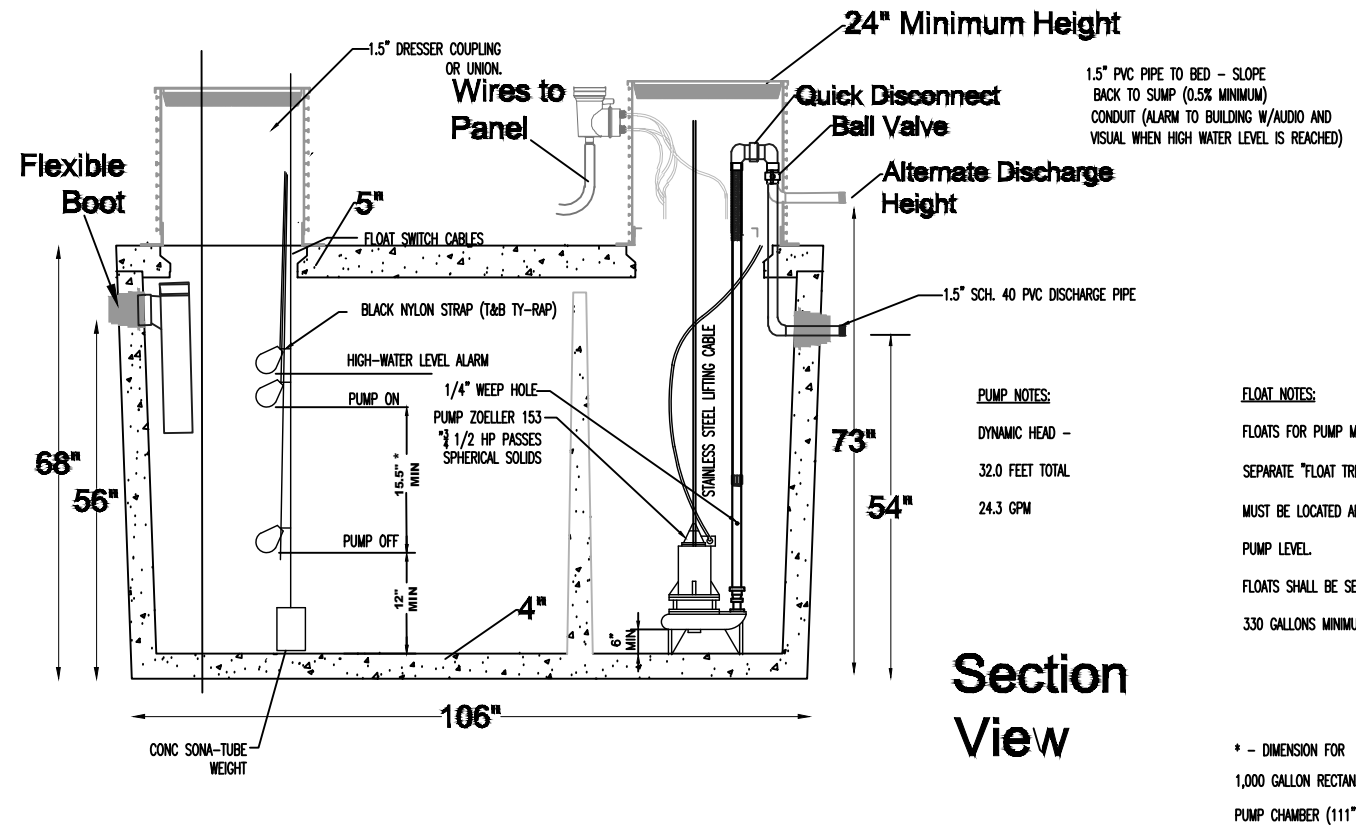
ENTECH
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COLORADO SPRINGS, CO 80907
(719) 531-5599

ON-SITE WASTEWATER TREATMENT SYSTEM
2110 STELLA DRIVE
EL PASO COUNTY, COLORADO
FOR: TREMMEL DESIGN GROUP

DRAWN BY: R. JAQUET
DESIGNED BY: R. JAQUET
CHECKED BY: R. JAQUET
DATE: 3/8/2024
SCALE: AS SHOWN
JOB NO.: 231597
SHEET NO.: 3 OF 4



Top View



Section View

1,000 GALLON PUMP CHAMBER
SCALE: N.T.S.

* - 15.5" SEPARATION ASSUMES VALLEY PRE-CAST, ONE COMPARTMENT TANK
DIMENSION WILL CHANGE DEPENDING UPON ACTUAL TANK DIMENSIONS.

MODIFICATIONS TO THIS DESIGN MAY BE REQUIRED, TO BE DETERMINED AT THE TIME OF SITE OBSERVATIONS.

* - DIMENSION FOR
1,000 GALLON RECTANGULAR
PUMP CHAMBER (111" X 60")

PUMP NOTES:
DYNAMIC HEAD -
32.0 FEET TOTAL
24.3 GPM

FLOAT NOTES:
FLOATS FOR PUMP MUST BE ON A
SEPARATE "FLOAT TREE." OFF-FLOAT
MUST BE LOCATED ABOVE THE
PUMP LEVEL.
FLOATS SHALL BE SET TO ACHIEVE
330 GALLONS MINIMUM DOSE.

REVISIONS	BY:

ENTECH
ENGINEERING, INC.

505 ELKTON DRIVE
COLORADO SPRINGS, CO. 80907
(719) 531-5599

ON-SITE WASTEWATER TREATMENT SYSTEM
2110 STEINBOCK DRIVE
EL PASO COUNTY, COLORADO
FOR: TREMMEL DESIGN GROUP

DRAWN BY: R. JAQUET
DESIGNED BY: R. JAQUET
CHECKED BY: R. JAQUET
DATE: 3/8/2024
SCALE: AS SHOWN
JOB NO.: 231597
SHEET NO.: 4 OF 4 SHEETS