TRIVIEW METROPOLITAN DISTRICT NORTHERN DELIVERY SYSTEM - BOOSTER PUMP STATION

EL PASO COUNTY. CO

MAY 2023

PCD File No. PPR-22-62

CODE STATEMENT II. CODE ABSTRACT (CONT.) APPLICABLE CODES INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING: GENERAL PROPERTY INFORMATION -LOCATION: EL PASO COUNTY -LEGAL DESCRIPTION: SEC 03-12-66 -EPC PARCEL SCHED #: 6203000002 PIKES PEAK REGIONAL BUILDING CODE (2017) INTERNATIONAL BUILDING CODE (2015) INTERNATIONAL ENERGY CONSERVATION CODE (2015) INTERNATIONAL MECHANICAL CODE (2015) -70NING -LAND USE: -OWNER: -TAX STATUS: POLITICAL SUBDIVISION CITY OF COLORADO SPRINGS INTERNATIONAL FUEL GAS CODE (2015) INTERNATIONAL PLUMBING CODE (2018) POLITICAL/EXEMPT NATIONAL ELECTRICAL CODE (2020) ICC/ANSI A117.1 ACCESSIBILITY STANDARD (2009) BUILDING CONSTRUCTION -TOTAL BUILDING AREA: 1.496 SF -BUILDING HEIGHT: -# OF LEVELS: CODE ABSTRACT: SCOPE THE PURPOSE OF THIS PROJECT IS TO CONSTRUCT A PUMP STATION FOR THE TRIVIEW METROPOLITAN DISTRICT. THE BUILDING WILL HOUSE A PUMPING SYSTEM, PIPING, ELECTRICAL AND CONTROLS EQUIPMENT. ASSOCIATED BUILDING CODE ANALYSIS -CONSTRUCTION TYPE: -O.C. CLASSIFICATION: TYPE II-B -ALLOWABLE HEIGHT: EGRESS REQUIREMENTS: -OC. LOAD CALCULATION APPURTENANCES INCLUDE UNDERGROUND SERVICE $1.496 \text{ SF } \times 1/100 = 14.96 \text{ SF}$ -TOTAL EXITS PROVIDED:

PROPERTY LINE PROPERTY LINE EASEMENT/LEASE AGREEMENT AREA EX FENCE EX WATER LINE EX UG ELECTRIC LINE EX OH ELECTRIC LINE PROPERTY LINE 7385 EX CONTOURS—MAJOR EX CONTOURS—MINOR PP CONTOURS—MINOR PP UG ELECTRIC LINE PP UG ELECTRIC LINE

EX OH ELECTRIC LINE

EX TELEPHONE LINE

EX STORM SEWER LINE

EX ELEC POWER POLE

EX FIRE HYDRANT

EX TREE (SIZE VARIES)

EX CONTOURS—MINOR

7385 — PP CONTOURS—MAJOR

7386 — PP CONTOURS—MINOR

PP UG ELECTRIC LINE

LINE — W — PP WATER LINE

R LINE — PP FIRE HYDRANT

POLE — X — PP FENCE (BARBED WIRE)

PP FENCE (SPLIT RAIL)

PP VEHICLE TRAFFIC CIRCULATION PATH

SIGNATURE BLOCKS

DISTRICT APPROVALS

0

THE TRIVEIW METROPOLITAN DISTRICT RECOGNIZES THE DESIGN ENGINEER AS HAVING RESPONSIBILITY FOR THE DESIGN. THE TRIVIEW METROPOLITAN DISTRICT HAS LIMITED ITS SCOPE OF REVIEW ACCORDINGLY.

SIGNATURE: James Monager

TITLE: District Manager

DATE: 5-26-23

IN CASE OF ERRORS OR OMISSIONS WITH THE DESIGN AS SHOWN ON THIS DOCUMENT, THE STANDARDS AS DEFINED IN THE "GENERAL NOTES" SHALL GOVERN.

ENGINEER'S STATEMENT

THESE 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 APPLICABLE GOVERNING AGENCIES.



5-26-23

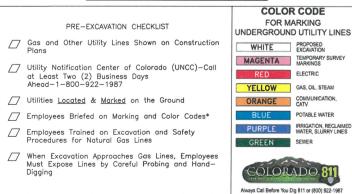
224.29 PROJECT NO

100% STAMPED



VICINITY MAP





DS-HYDRO a Division of RESPEC 5540 TECH CENTER DR., SUITE 100 COLORADO SPRINGS, COLORADO 80919 (719) 227-0072

THE PARTIES RESPONSIBLE FOR THIS PLAN HAVE FAMILIARIZED THEMSELVES WITH ALL CURRENT ACCESSIBILITY CRITERIA AND SPECIFICATION AND THE PROPOSED PLAN REFLECTS ALL SITE ELEMENTS REQUIRED BY THE APPLICABLE ADA DESIGN STANDARDS AND GUIDELINES AS PUBLISHED BY THE UNITED STATES DEPARTMENT OF JUSTICE. APPROVAL OF THIS PLAN BY TRIVIEW METROPOLITAN DISTRICT DOES NOT ASSURE COMPLIANCE WITH THE ADA OR ANY OTHER FEDERAL OR STATE ACCESSIBILITY LAWS OR ANY REGULATIONS OR GUIDELINES ENACTED OR PROMULGATED UNDER OR WITH RESPECT TO SUCH LAWS.

	SHEET INDEX							
SHEET NUMBER	DESCRIPTION	SHEET NUMBER	DESCRIPTION					
	COVER SHEET							
GENERAL	COVER SHEET	ARCHITECTU	DAI					
G1	GENERAL NOTES	ATCHITECTO	ARCHITECTURAL FLOOR PLAN					
E	GENERAL NOTES GENERAL NOTES	A2	ARCHITECTURAL ROOF PLAN					
	FEMA FLOODPLAIN MAP	A3	EAST & WEST BUILDING ELEVATIONS					
G4	VICINITY MAP	A4	NORTH & SOUTH BUILDING ELEVATIONS					
G5	PROCESS FLOW DIAGRAM	A5	ARCHITECTURAL SECTIONS					
G6	HYDRAULIC PROFILE	A6	ARCHITECTURAL DETAILS					
CIVIL		A7	LIFE SAFETY PLAN					
CIVIL C1	OVERALL SITE PLAN	DDOCECC						
C2	SITE DEVELOPMENT PLAN	PROCESS P1	PROCESS FLOOR PLAN					
02	& ACCESS ROAD	P2	PROCESS PIPE SECTIONS					
C3	SITE DEVELOPMENT PLAN	P3	PROCESS PIPE SECTIONS					
	& ACCESS ROAD	P4	PUMP DETAILS					
C4	UTILITY PLAN	P5	PROCESS DETAILS					
C5	SITE FENCING	-P5	PROCESS DETAILS					
C6	PUMP STATION INLET/OUTLET							
	ALIGNMENT PLAN & PROFILE	PLUMBING						
C7	CSU WATERLINE REPLACEMENT	PL1	PLUMBING PLAN					
C8	PLAN & PROFILE LANDSCAPE PLAN	PL2	PLUMBING ISOMETRIC					
C9	LANDSCAPE PLAIN LANDSCAPE DETAILS	MECHANICAL						
C10	LANDSCAPE DETAILS	M-001	LEGENDS AND ABBREVIATIONS					
C11	LANDSCAPE DETAILS	M-002	SCHEDULES					
C12	CIVIL DETAILS	M-003	SPECIFICATIONS					
C13	CIVIL DETAILS	M - 101	HVAC PLAN					
C14	CIVIL DETAILS	M - 601	HVAC DETAILS & DIAGRAMS					
C15	CIVIL DETAILS							
CTDLICTLIDAL		ELECTRICAL	0,4,50,0,,505,15					
STRUCTURAL S1	STRUCTURAL NOTES	E1	SYMBOLS LEGEND & SCHEDULES					
S2	STRUCTURAL NOTES STRUCTURAL FLOOR PLAN	E2 E3	ELECTRICAL POWER PLAN ELECTRICAL LIGHTING PLAN					
32	& SECTIONS	E4	ONE-LINE DIAGRAM & PANEL					
S3	STRUCTURAL FOUNDATION PLAN		SCHEDULES					
S4	STRUCTURAL ANCHOR PLAN	E5	ELECTRICAL CONCRETE EMBEDDED					
S5	STRUCTURAL DETAILS		CONDUIT PLAN					
S6	STRUCTURAL DETAILS	E6	ELECTRICAL LUMINAIRE PLAN					
S7	STRUCTURAL DETAILS							

CHEET INDEV

*NOTE: BOXED SHEETS INDICATE SITE DEVELOPMENT PLAN SUBMITTAL

PARTICIPANTS

OWNER
TRIVIEW METROPOLITAN DISTRICT
16055 OLD FOREST POINT
STE 302
MONUMENT, CO 80132
CONTACT: JIM MCGRADY
PHONE: (719) 488-6868

CONSULTING/DESIGN ENGINEER
JDS-HYDRO CONSULTANTS,
A DIVISION OF RESPEC
5540 TECH CENTER DR
STE 100
COLORADO SPRINGS, CO 80919
CONTACT: MARIO DIPASQUALE, PE
PHONE: (719) 402-0018

DRAINAGE ENGINEER
RESPEC
121 S TEJON ST
STE 1110
COLORADO SPRINGS, CO 80903
CONTACT: RICH GALLEGOS, PE
PHONE: (719) 266-5212

SURVEY DATA

TOPOGRAPHY SURVEY CENTENNIAL LAND SURVEYING, LLC. SEE SURVEY FOR ESTABLISHED CONTROL. THE FOLLOWING COORDINATE SYSTEM AND DATUM RECORD IS AS FOLLOWS:

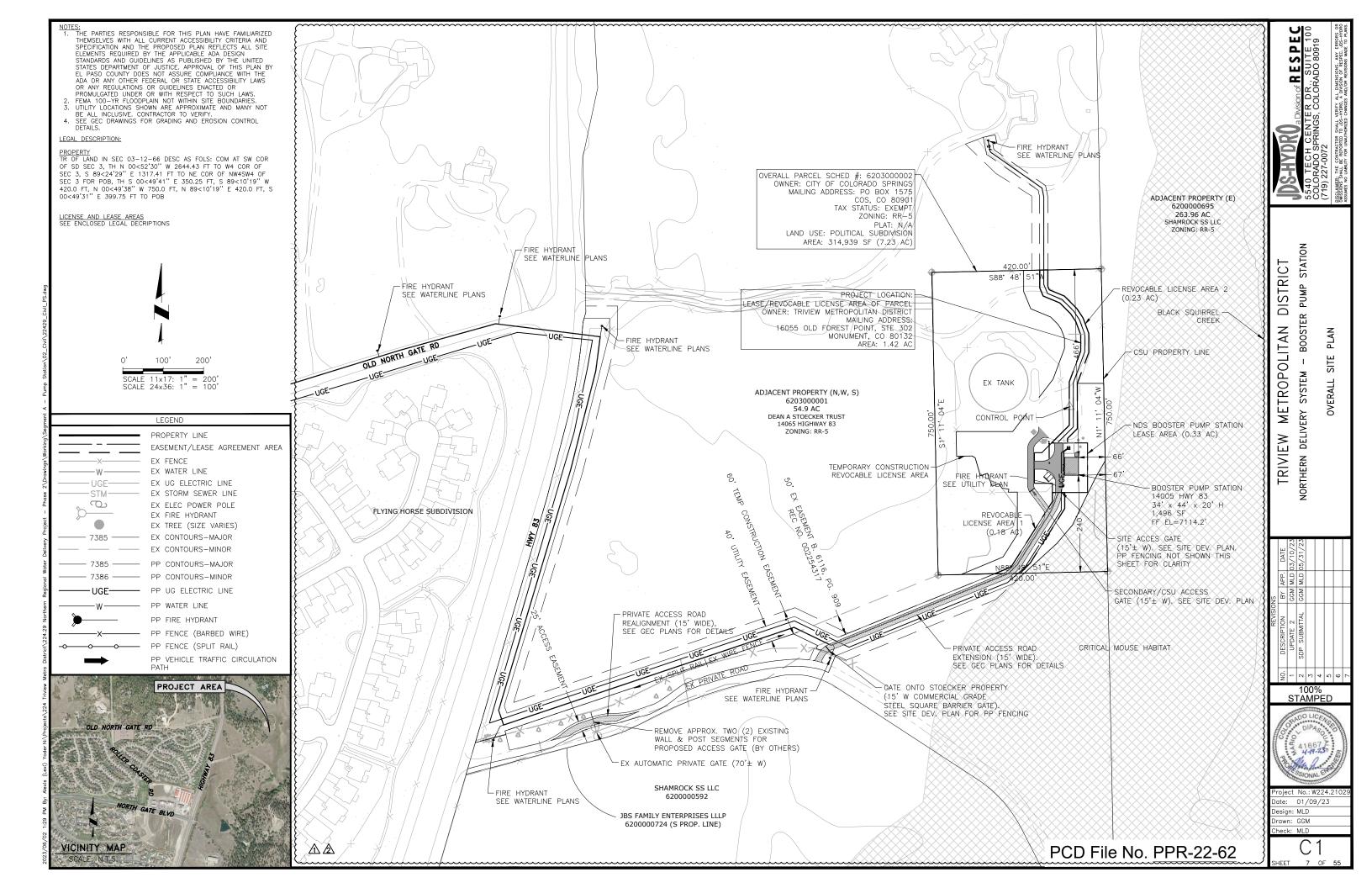
HORIZONTAL DATUM: HORIZONTAL COORDINATES ARE MODIFIED COLORADO STATE PLANE CENTRAL BASED UPON THE FOLLOWING: COORDINATES ARE SCALED FROM CONTROL POINT 5052 BEING A 2-INCH ALUMINUM CAP STAMPED AZTEC CP 52 SET AT THE TOP OF A DIRT BANK ALONG THE EAST SIDE OF GLEN EAGLE DR. APPROXIMATELY 380+— FEET NORTHERLY OF ST. LAWRENCE WAY. VALUES ARE BASED UPON A STATIC SURVEY SESSION WITH THE FOLLOWING RESULTS:

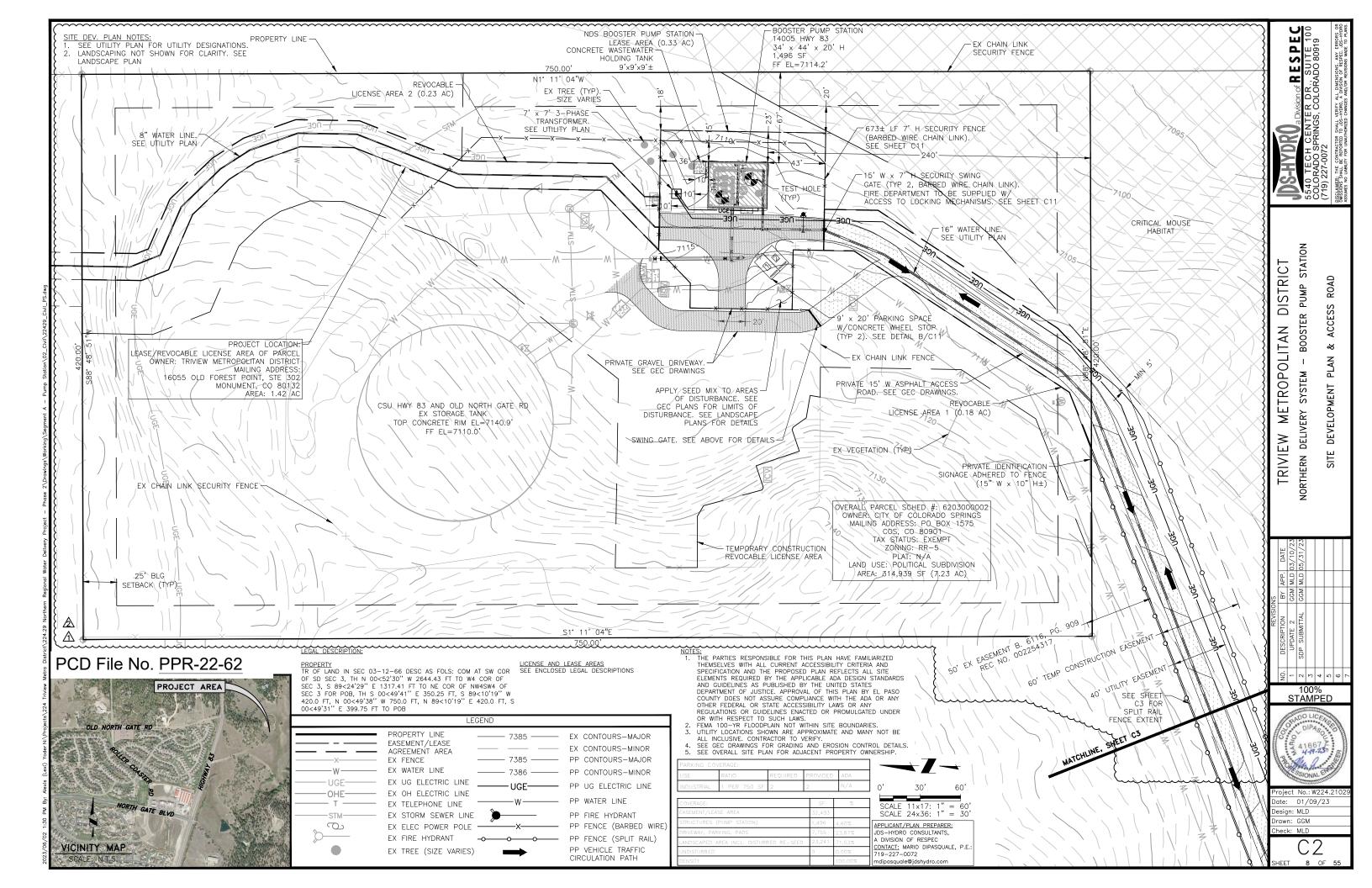
LATITUDE: 39-04-05916N; LONGITUDE: 104-49-24.82486 W STATE PLANE NORTHING: 1,450,401.759; STATE PLANE EASTING: 3,192,049.712 SCALE FACTOR: 1.0004063250

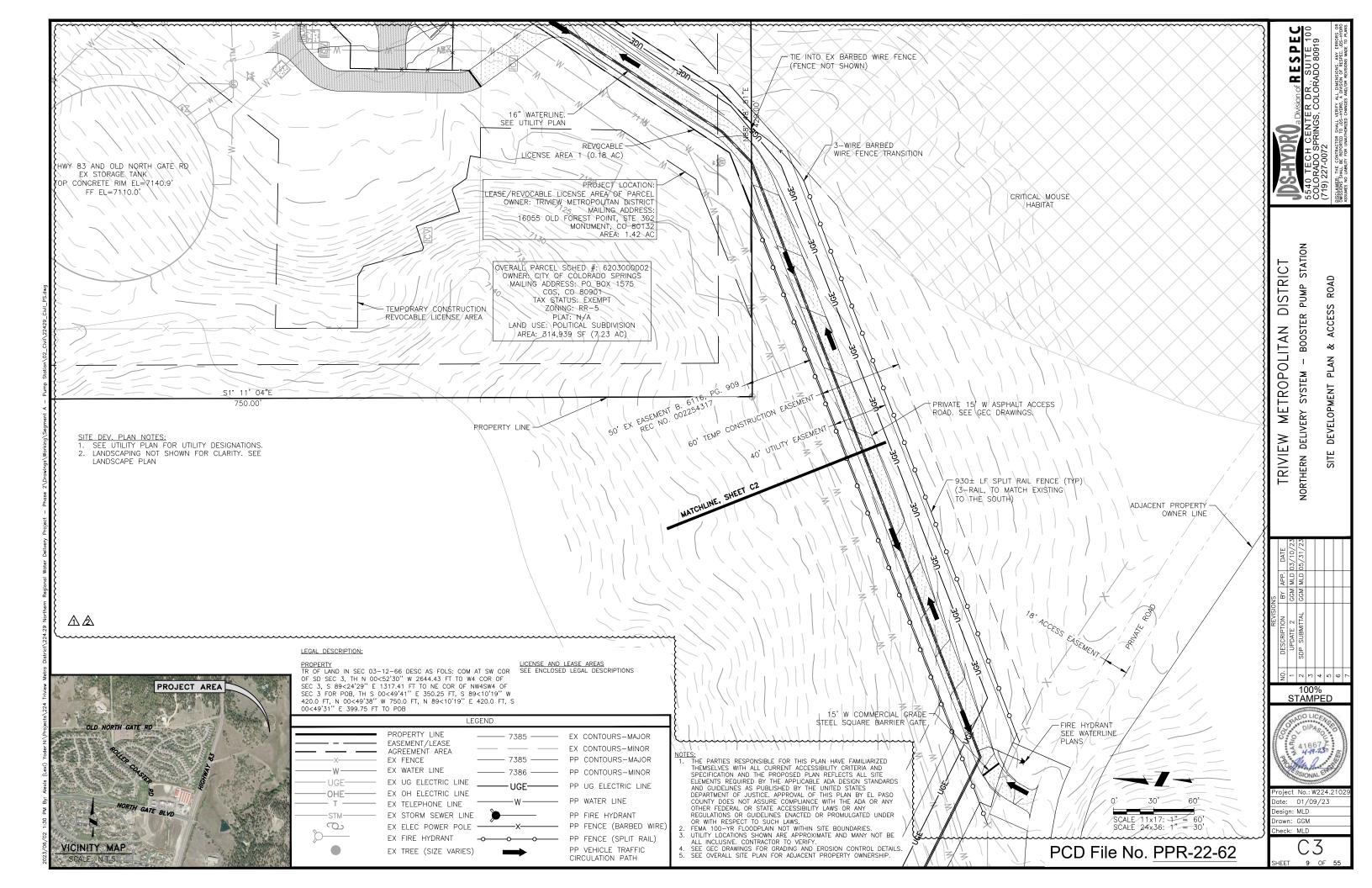
TRUNCATE NORTHING: 1,000,000.00; TRUNCATE EASTING: 3,000,000.00 PROJECT NORTHING: 450,401.759; PROJECT EASTING: 192,049.712

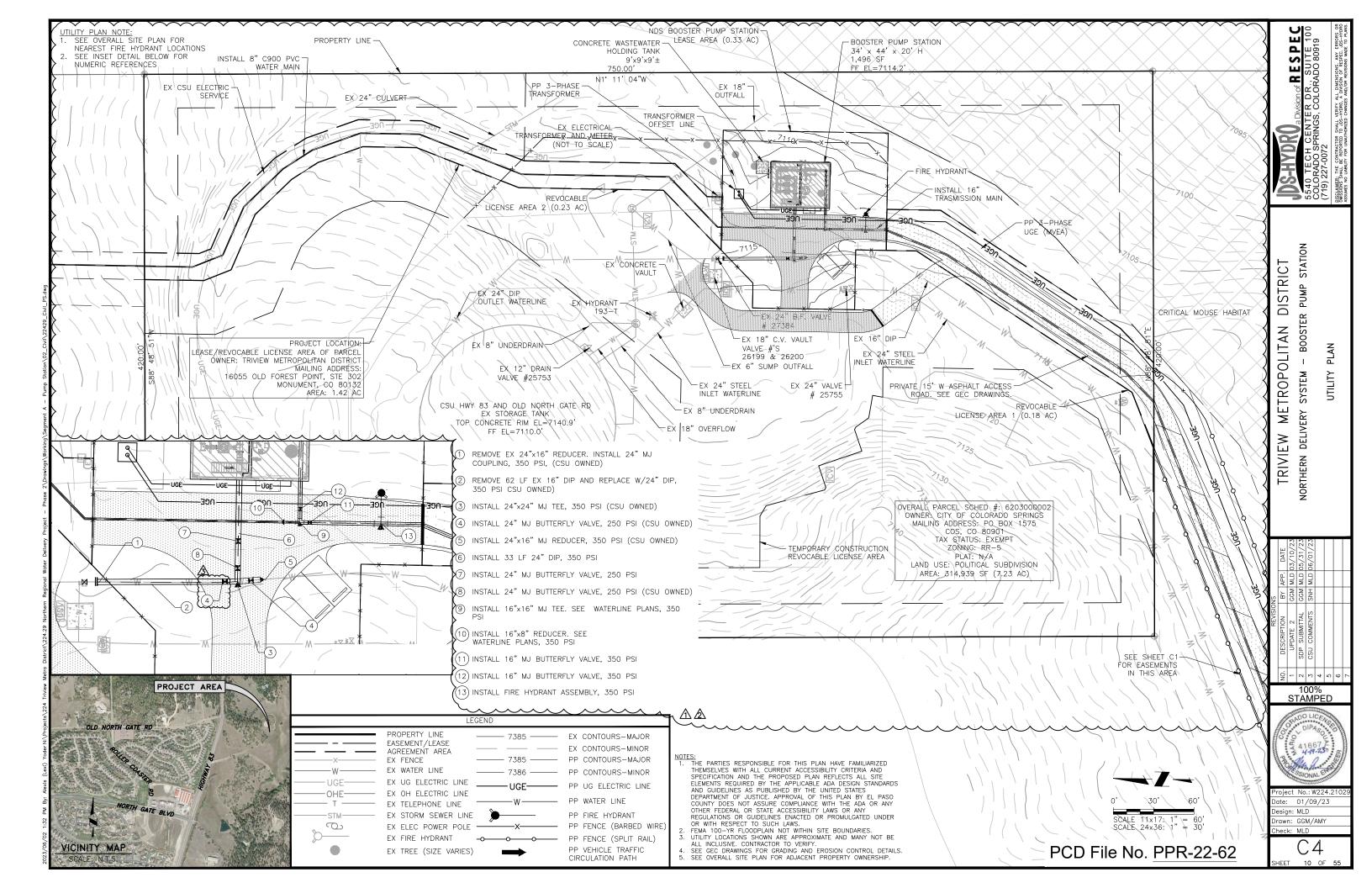
VERTICAL DATUM: NAVD

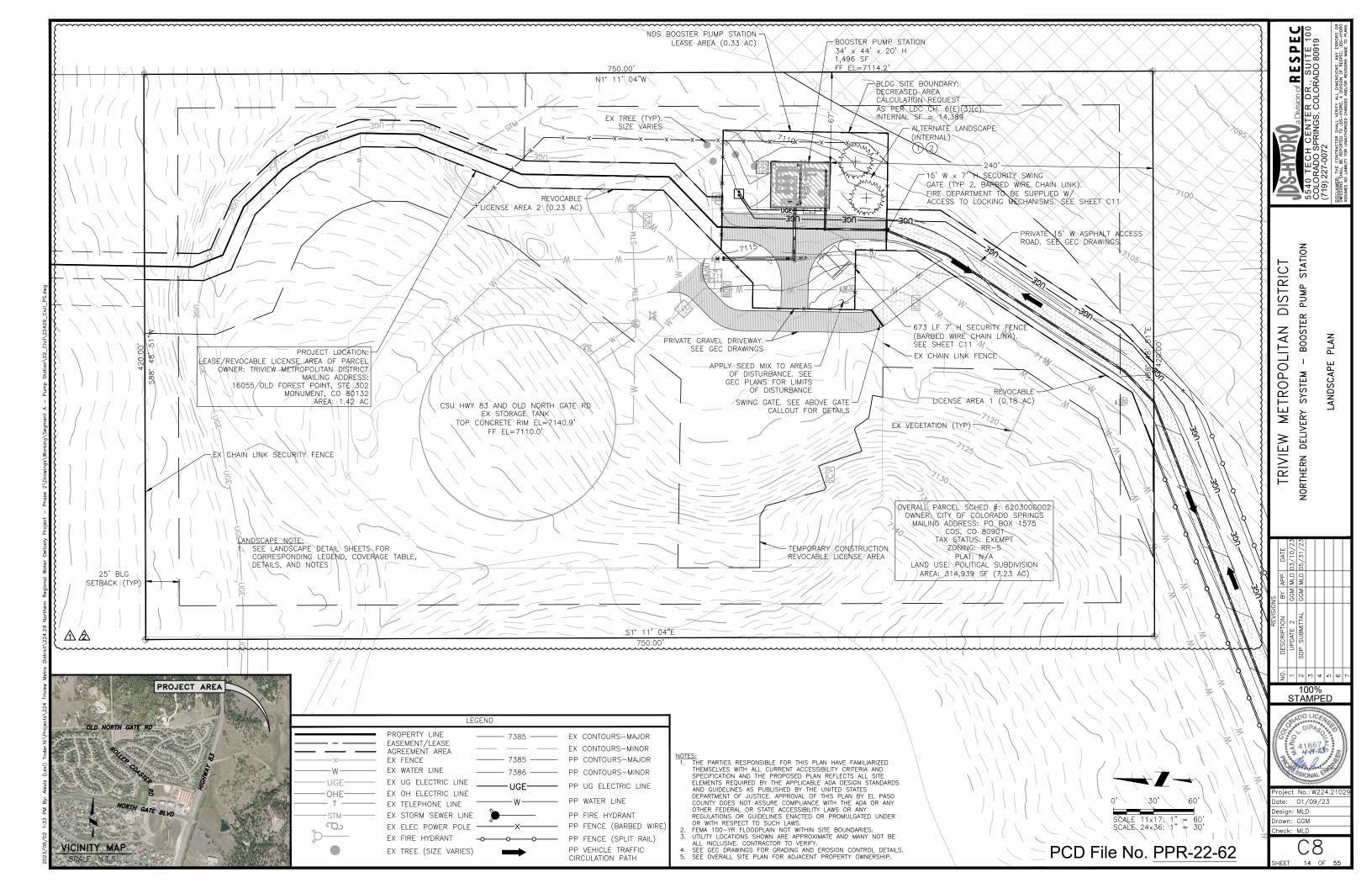
NAVD 88 WITH GEOID G18US; BENCHMARK: CP 5052 EL: 7213.70 BENCHMARK: NGS CS110/DM9842 EL: 6843.25; BENCHMARK: NGS S294/KK0272











% GROUNDCOVER REQUIRED/PROVIDED (SEED MIX)	75/100
MIN. PLANT SIZES & PERCENTAGE OF LIVE GROUND COVER	
INTERNAL AREA REQUIRED/PROVIDED	719/982
% MINIMUM INTERNAL AREA	5
INTERNAL	
EASEMENT/LEASE AREA (SITE REDUCED)	14,389
APPLICABLE LANDSCAPE COVERAGE:	

El Paso County Conservation District Shotgun Mix

Common Name (All Native)	Recommended Variety	Percent of Seed Mix	Non Irrigated PLS Rate Per Acre (Drilled) 1.08	
Bluestem, Big	Kaw, Bison, Champ	20.0%		
Grama, Blue	Lovington, Hachita, Alma	10.0%	0.12	
Green Needlegrass	Lodorm	10.0%	0.48	
Wheatgrass, Western	Arriba, Barton	20.0%	1.60	
Grama, Sideoats	Vaughn, Butte, El Reno, Niner	10.0%	0.46	
Switchgrass	Glackwell, Greenville	10.0%	0.20	
Prairie Sandreed Goshen, Pronghorn		10.0%	0.32	
Yellow Indiangrass	Cheyenne, Holt, Llano	10.0%	0.51	

Note: The above listed PLS rate per acre is for drilled application. If seeding is completed using broadcasting methods, the PLS rate shall be doubled.

LANDSCAPE SCHEDULE — XERIC/LOW WATER VEGETATION									
SYMBOL	BOTANICAL NAME	COMMON NAME	QTY.	MATURE SIZE	PLANTING	COMMENTS			
***	EVERGREEN TREE			(HEIGHT x WIDTH)	SIZE (MIN)				
**************************************	PINUS PONDEROSA	PONDEROSA PINE	2	60'/100' × 25'	6' MIN. HEIGHT	MUST ARRIVE BALLED AND BURLAPPED. PRUNE TO SHAPE TREE AT EARLY GROWTH			

LANDSCAPE KEY/DESCRIPTIONS

(1) TYP PLANTING REF: SHEET C10

LIVE GROUND COVER/SEED MIX REF: ABOVE AND GEC SHEETS. SEED BLEND INSTALLED PER SUPPLIER'S SPECS. SUBMIT CUT SHEET FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION. APPLY TO EXTENT OF SITE DISTURBED AREA

LANDSCAPING NOTES:

- 1. PLANT QUANTITY AND SUBSTITUTION: IN CASE OF DISCREPANCY IN PLANT QUANTITIES SHOWN ON THE PLANT TABLE AND THOSE SHOWN ON THE PLANTING PLAN, THE QUANTITIES SHOWN ON THE PLANTING PLAN SHALL GOVERN. THE MINIMUM ACCEPTABLE SIZES OF PLANTS MEASURED BEFORE PRUNING WITH BRANCHES IN NORMAL POSITION SHALL CONFORM TO THE PLANTING SIZES AS SPECIFIED IN THE SCHEDULE. ANY SUBSTITUTION OF PLANT SIZE OR SPECIES MUST BE SUBMITTED TO THE ENGINEER IN WRITING FOR APPROVAL PRIOR TO INSTALLATION
- 2. ACCEPTABLE PLANT MATERIAL: ALL PLANTS SHALL MEET OR EXCEED STANDARDS SET BY THE "COLORADO NURSERY ASSOCIATION," AND THE "AMERICAN STANDARD OF NURSERY STOCK." ALL PLANTS SHALL BE TYPICAL OF THEIR SPECIES, HEALTHY, FREE OF DISEASE, INSECT PESTS, MECHANICAL INJURIES, AND HAVE ADEQUATE ROOT SYSTEMS. ALL PLANTINGS SHALL BE INSTALLED PER PLANTING DETAILS. ALL PLANT MATERIAL SHALL BE INSPECTED BY THE ENGINEER OR OWNER PRIOR TO INSTALLATION. STAKING/CONTRACTOR INSPECTION NOTE: ALL PLANTING LOCATIONS TO BE STAKED AND INSPECTED BY CONTRACTOR PRIOR TO INSTALLATION. ALL PLANTS TO BE INSPECTED AT NURSERY LOCATION PRIOR TO TRANSPORTING TO THE SITE.
- 3. SITE DISTURBANCE: ALL AREAS OF SITE DISTURBANCE DUE TO CONSTRUCTION SHALL BE RENOVATED OR PLANTED PER THIS PLAN UNLESS OTHERWISE NOTED. SITE—SPECIFIC LANDSCAPING SHALL AT A MINIMUM, INCLUDE REVEGETATION OF DISTURBED AREAS WITH MATERIALS INDIGENOUS TO THE SITE OR OTHERWISE ADAPTABLE (SEE LEFT KEY DESCRIPTIONS AND EROSION CONTROL NOTES SHEET FOR SEED MIX).
- 4. SOIL AMENDMENTS: CONTRACTOR SHALL AMENDED PLANTING AREAS AS FOLLOWS: -ADD MINIMUM OF 3 CUBIC YARDS OF WELL-COMPOSTED AGED MANURE OR
 - PREMIUM COMPOST PER 1000

-ALL AMENDED AREAS SHALL BE TILLED TO A DEPTH OF 6" PRIOR TO PLANTING -3 CUBIC YARDS PER 1000 S.F. OF WELL-COMPOSTED AGED MANURE OR

-ALL AMENDED AREAS SHALL BE TILLED TO A DEPTH OF 6" PRIOR TO

PREMIUM COMPOST PLANTING

- 5. SEEDED TURF: ALL SEEDED OR HYDROMULCHED AREAS SHALL DEMONSTRATE 95% GERMINATION PRIOR TO FINAL
- 6. IRRIGATION: OWNER TO WATER FOR ONE TO TWO GROWING SEASONS UNTIL ESTABLISHED AND ON AN AS-NEEDED BASIS THEREAFTER. DISTURBED AREA SEED/GRASS MIXTURE MUST BE IRRIGATED BY OWNER UNTIL ESTABLISHED AND IN TIMES OF DROUGHT. THE ON-GOING MAINTENANCE OF THE NATIVE GRASS IS THE RESPONSIBILITY OF OWNER. AUTOMATED IRRIGATION SYSTEM SHALL DRIP IRRIGATE ALL TREE, SHRUB, AND GROUND COVER PLANTING AREAS AND SPRAY ANY TURE
- 7. INORGANIC AND ORGANIC MULCH/FABRIC: ALL PLANTINGS (INCLUDING THOSE IN ROCK MULCH AREAS) TO RECEIVE 3-INCH DEPTH OF SHREDDED CEDAR WOOD MULCH UNLESS OTHERWISE SPECIFIED. MULCH RINGS TO BE SIZED PER PLANTING DETAILS (15-INCH DIA. FOR (5) GALLON SHRUBS/GRASSES. WOOD MULCH TO BE "GORILLA HAIR CEDAR MULCH" AVAILABLE FROM C&C SAND CO. (719)471-7222 OR PIONEER SAND CO. (719)599-8100. SUBMIT PRODUCT INFOR. TO DESIGN ENGINEER FOR APPROVAL PRIOR TO INSTALLATION. HIGH QUALITY COMMERCIAL-GRADE (SPUN-BONDED POLYPROPYLENE OR EQUAL) LANDSCAPING FABRIC SHALL BE APPLIED UNDER ALL ROCK BASES
- 8. STEEL EDGE: ALL EDGER SHALL BE ACME 4" PERFORATED STEEL EDGER "SELF COLORING" 14 GAUGE OR APPROVED
- 9. APPROVAL: ANY FIELD CHANGES OR DEVIATIONS TO THESE PLANS WITHOUT PRIOR APPROVAL OF AN AMENDED DEVELOPMENT PLAN MAY RESULT IN A DELAY OF FINAL APPROVAL AND THE ISSUANCE OF A CERTIFICATE OF
- 10. FINAL TREE LOCATIONS: ALL TREE LOCATIONS SHALL BE STAKED FOR APPROVAL BY OWNER REPRESENTATIVE / ENGINEER PRIOR TO PLANTING, SHRUBS SHALL BE PLACED IN THEIR LOCATIONS PER THIS PLAN AND APPROVED BY OWNER REPRESENTATIVE/ENGINEER. THE FINAL LOCATION OF TREES TO BE PLANTED MAY REQUIRE ADJUSTMENT BASED ON APPROVAL OF THE FINAL UTILITIES PLANS AND ASSOCIATED FINAL PLAT AND
- 11. COMPLIANCE WITH PLANS: THE COMPLETED LANDSCAPING SHALL COMPLY WITH THE APPROVED LANDSCAPE PLAN AND SHALL INCLUDE THE QUANTITIES, LOCATIONS, SPECIES AND SIZES OF PLANTS AND OTHER LANDSCAPE MATERIALS AS REPRESENTED ON THE APPROVED LANDSCAPE PLAN. SEEDED LANDSCAPE AREAS SHALL HAVE NO BARE AREAS LARGER THAN 6 SQUARE INCHES AFTER GERMINATION.

12. MAINTENANCE:

THE OWNER IS RESPONSIBLE FOR ALL REGULAR AND NORMAL MAINTENANCE OF REQUIRED LANDSCAPING INCLUDING WEEDING, IRRIGATION, FERTILIZING, PRUNING AND MOWING.

REPLACEMENT OF DEAD, DISEASED OR SUBSTANTIALLY DAMAGED PLANT MATERIALS SHALL OCCUR WITHIN 6 MONTHS FROM WHEN THE PLANT MATERIAL DIED, OR WHEN THE INSPECTION DETERMINED THE PLANT MATERIAL WAS DEAD OR DAMAGED. REPLACEMENT SHALL BE OF THE SAME OR SIMILAR TYPE AS ORIGINALLY APPROVED. AN ALTERNATIVE TYPE OF SPECIES SHALL REQUIRE APPROVAL BY THE PCD DIRECTOR.

C. MAINTENANCE INSPECTIONS MAY BE PERFORMED PERIODICALLY. FAILURE TO MAINTAIN THE LANDSCAPING IN COMPLIANCE WITH THE APPROVAL IS CONSIDERED A ZONING VIOLATION.

- ** BY APPROVING THIS PLAN, THE DIRECTOR IS ACKNOWLEDGING AN ALTERNATE LANDSCAPE DESIGN AS IT RELATES AND CONFORMS TO HOMELAND SECURITY STANDARDS AND PROMOTES WATER CONSERVATION WHILE MEETING THE PURPOSES DESCRIBED IN THE LAND DEVELOPMENT CODE.
- ** CONTRACTOR TO REFER TO ANY TRIVIEW METROPOLITAN DISTRICT LANDSCAPE SPECIFICATIONS FOR SPECIFIC SOIL AMENDMENT AND PREPARATION FOR SOD, SEED AND PLANTING AREAS.

ivision of **RESPE**ER DR., SUITE 1

COLORADO 80919

BOOSTER DELIVERY

DISTRI

METROPOLITAN

TRIVIEW

- 2 m 4 m

STAMPED



ote: 01/09/23 esign: MLD awn: GGM