A PORTION OF THE SOUTHWEST QUARTER OF SECTION 33, TOWNSHIP 12 SOUTH, RANGE 65 WEST OF THE 6TH P.M. CITY OF COLORADO SPRINGS, COUNTY OF EL PASO, STATE OF COLORADO

CONSTRUCTION DOCUMENTS MARCH 2024

OWNER'S STATEMENT

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

OWNER SIGNATURE

BRIAN BELAND BR 8812 CLIFF ALLEN POINT LLC PO BOX 88120 COLORADO SPRINGS CO 80908-8120

ENGINEER'S STATEMENT

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.

ERIC GUNDERSON, PE (CO #49487) - KIMLEY-HORN AND ASSOCIATES, INC. DATE

EL PASO COUNTY REVIEW STATEMENT

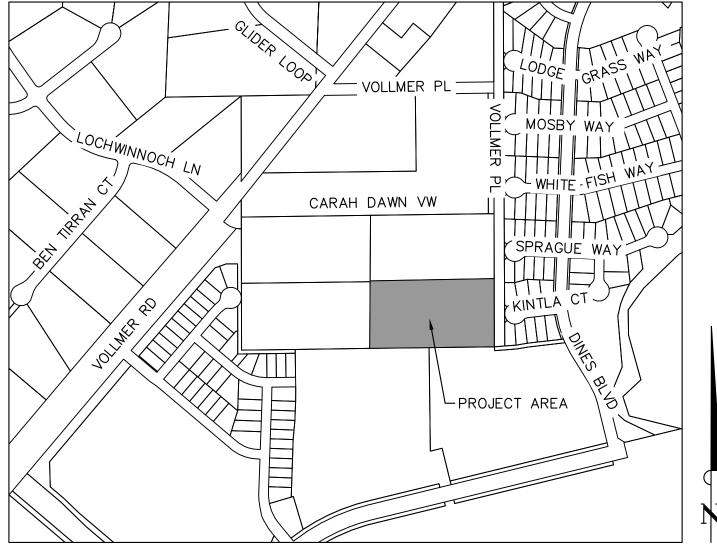
COUNTY PLAN REVIEW IS PROVIDED ONLY FOR GENERAL CONFORMANCE WITH COUNTY DESIGN CRITERIA. THE COUNTY IS NOT RESPONSIBLE FOR THE ACCURACY AND ADEQUACY OF THE DESIGN, DIMENSIONS, AND/OR ELEVATIONS WHICH SHALL BE CONFIRMED AT THE JOB SITE. THE COUNTY THROUGH THE APPROVAL OF THIS DOCUMENT ASSUMES NO RESPONSIBILITY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

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

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 DIRECTOR'S

DATE

JOSHUA PALMER, PE COUNTY ENGINEER/ECM ADMINISTRATOR



VICINITY MAP SCALE: 1"=500'

SHEET INDEX				
SHEET NO.	SHEET TITLE			
C0.0	COVER SHEET			
C1.0	DEMOLITION PLAN			
C1.1	OVERALL SITE PLAN			
C1.2	SITE PLAN INSETS			
C2.0	OVERALL GRADING PLAN			
C2.1	DETAILED GRADING PLAN			
C2.2	DETAILED GRADING PLAN			
C3.0	OVERALL STORM PLAN			
C3.1	STORM PLAN & PROFILE			
C3.2	STORM PLAN & PROFILE			
C3.3	STORM PLAN & PROFILE			
C3.4	DRAIN PLAN			
C4.0	UTILITY PLAN			
C5.0	SIGNAGE & STRIPING PLAN			
C5.1	SIGNAGE & STRIPING DETAILS			
C6.0	CONSTRUCTION DETAILS			
C6.1	CONSTRUCTION DETAILS			
C6.2	POND DETAILS			
C6.3	SCALE DETAIL			
L7.0	LANDSCAPE PLAN			
L7.1	LANDSCAPE NOTES			
L7.2	LANDSCAPE DETAILS			

LEGAL DESCRIPTION

LOT 4, AMENDED PLAT OF BARBARICK SUBDIVISION, COUNTY OF EL PASO, STATE OF

CONTAINING 5.290 ACRES (230,442 S.F.), MORE OR LESS.

A NON-EXCLUSIVE INGRESS AND EGRESS EASEMENT AS SET FORTH AND DESCRIBED IN DECLARATION AND BYLAWS OF BARBARICK SUBDIVISION PROPERTY OWNERS ASSOCIATES, INC., RECORDED FEBRUARY 12, 2008 UNDER RECEPTION NO. 208016289 AS AMENDED BY INSTRUMENT RECORDED MARCH 10, 2008 UNDER RECEPTION NO. 208028000.

LEASED PARCEL: 3.297 ACRES

BENCHMARK

4' DIAMETER PRECAST CONCRETE STORM SEWER MANHOLE RIM LOCATED IN THE SOUTHEASTERLY PORTION OF THE PROPERTY; ELEVATION = 7027.34 "NGVD 1929 AND THE 1960 SUPPLEMENTARY ADJUSTMENT" DATUM.

FEMA CLASSIFICATION

THIS PROPOERTY IS LOCATED WITHIN THE ZONE X (AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN) AS DETERMINED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY, FLOOD INSURANCE RATE MAP NO. 08041C0533G, EFFECTIVE DATE DECEMBER 7, 2018.

CONTACTS

BRIAN BELAND, BR 8812 CLIFF ALLEN POINT LLC PO BOX 88120 COLORADO SPRINGS CO 80908-8120 TEL: (719) 499-0208 CONTÀCT: BRIAN BELAND

RICHARD GRAHAM JR, GR INVESTMENTS LLC 4615 NORTHPARK DRIVE COLORADO SPRINGS CO 80918 TEL: (719) 499-0208 CONTÀCT: RICHARD GRAHAM JR

EL PASO COUNTY: EL PASO COUNTY PCD DEPARTMENT 2880 INTERNATIONAL CIRCLE, SUITE 110 COLORADO SPRINGS, CO 80910

KIMLEY-HORN AND ASSOCIATES, INC. 2 NEVADA NORTH AVE., SUITE 900 COLORADO SPRINGS, CO 80903 TEL: (719) 453-0182 CONTÀCT: ERIC GUNDERSON, P.E.

BUCHER DESIGN STUDIO, INC. 12325 ORACLE BLVD, SUITE 101 COLORADO SPRINGS, CO 80921 (719) 484-0480 CONTACT: JASON SHOUDIS

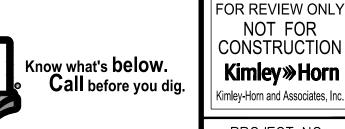
LANDSCAPE ARCHITECT: KIMLEY-HORN AND ASSOCIATES, INC. 2 NEVADA NORTH AVE., SUITE 900 COLORADO SPRINGS, CO 80903 (719) 284-7280

SURVEYOR:
LAND DEVELOPMENT CONSULTANTS, INC. 3898 MAIZELAND ROAD COLORADO SPRINGS, CO 80909 TEL: (719) 528-6133 CONTÀCT: DAVID V. HOSTETLER

DESIGNED BY: EJO DRAWN BY: RE CHECKED BY: EJG DATE: 3/7/202

Know what's below. Call before you dig.

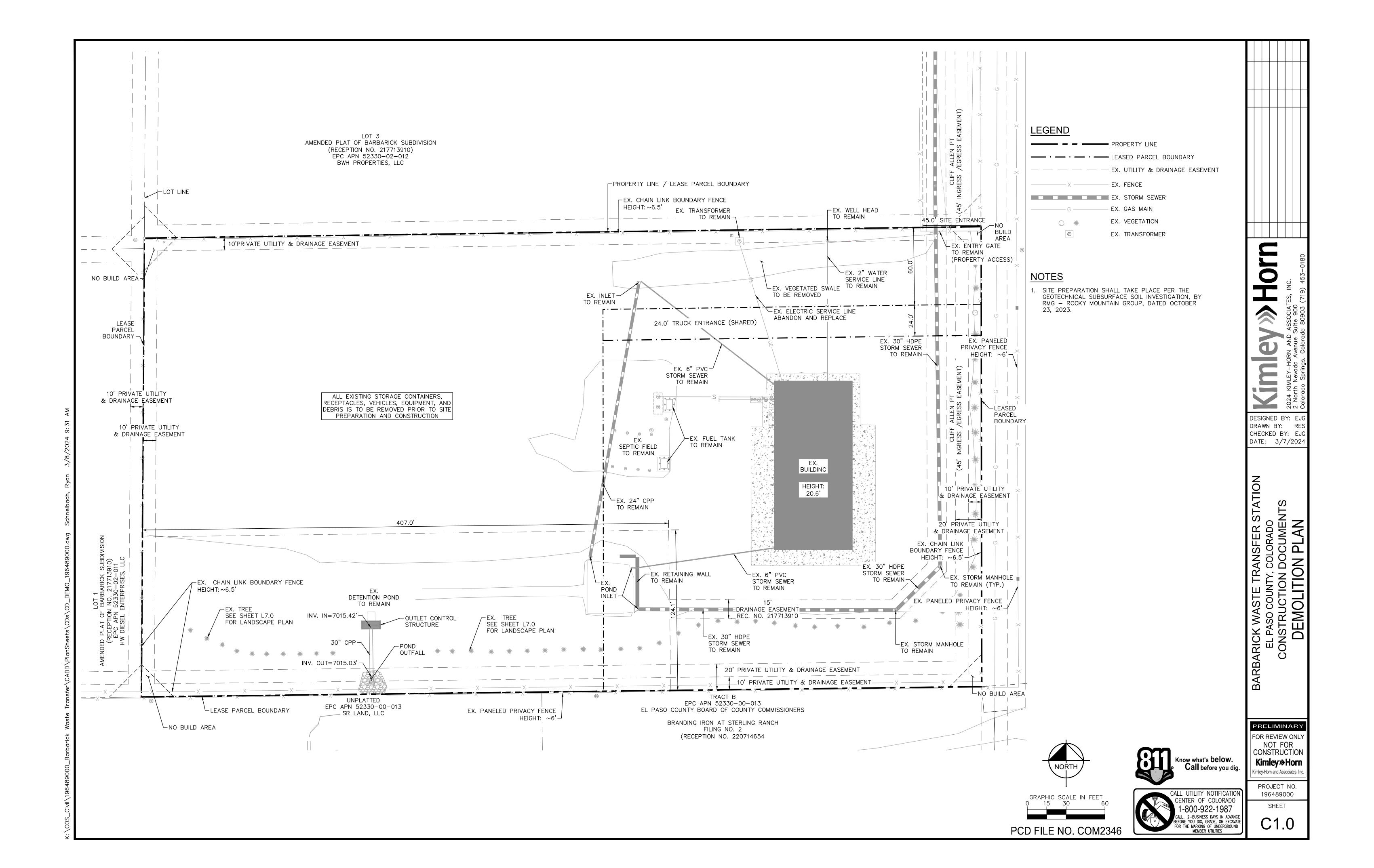


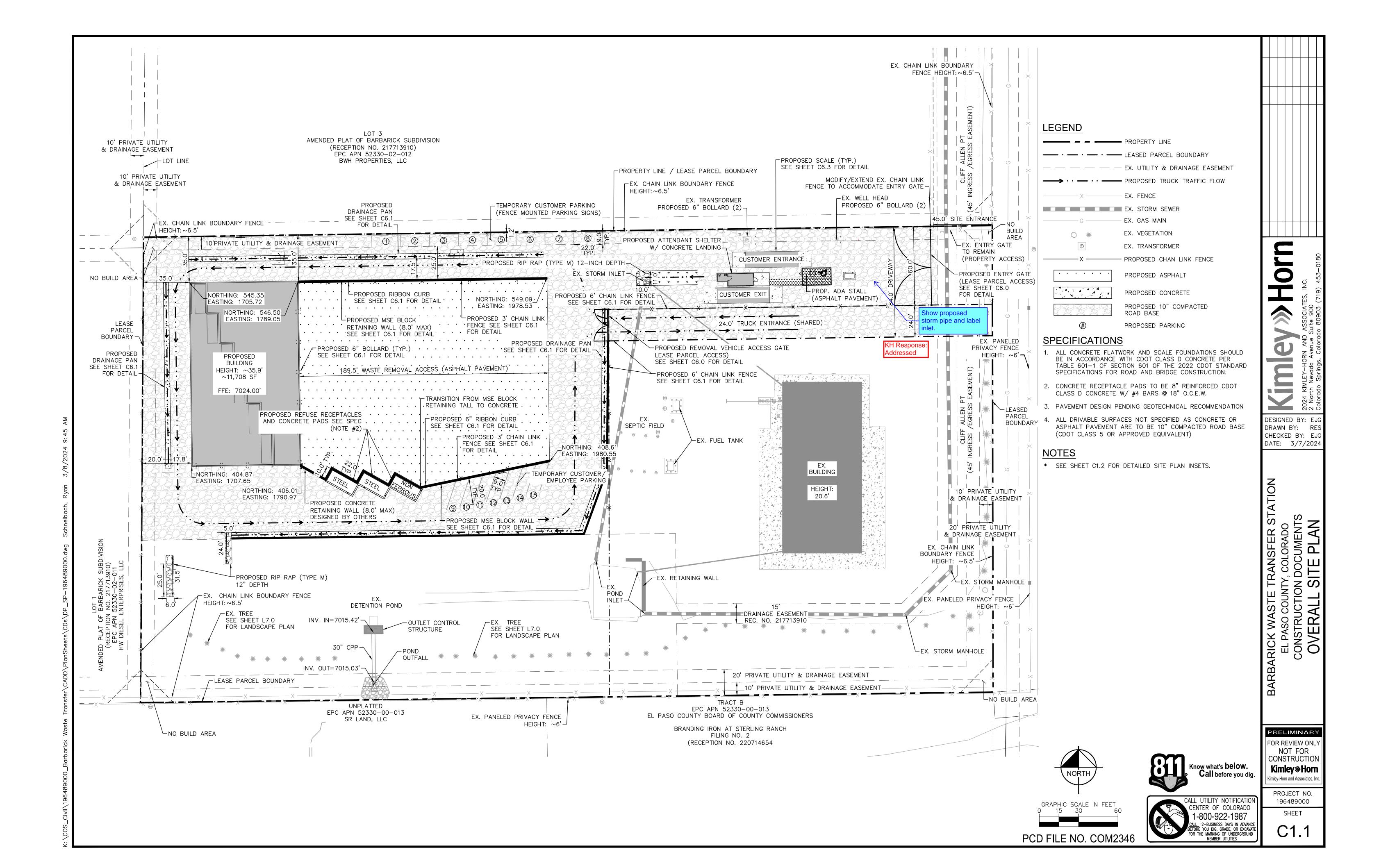


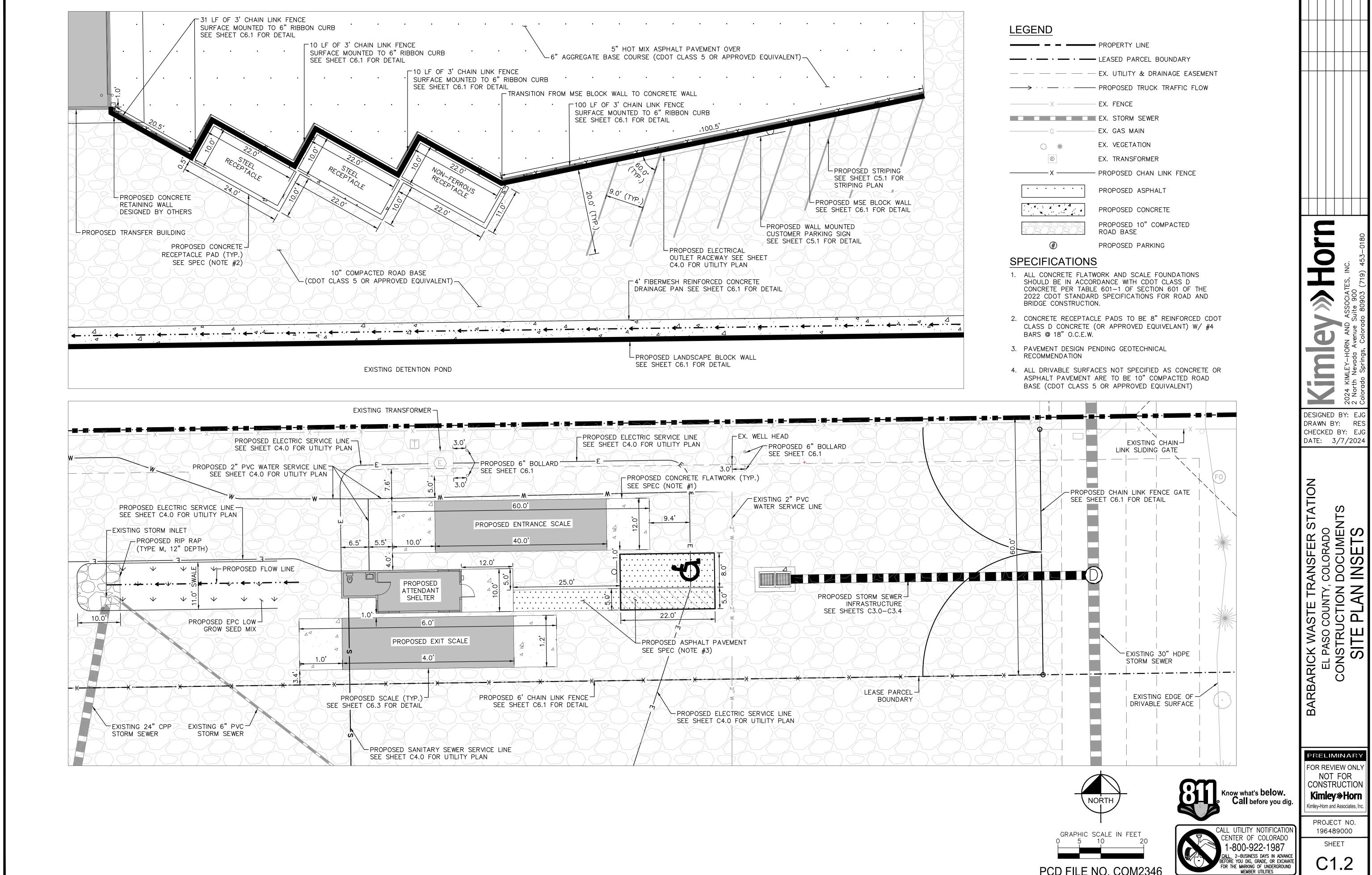
PROJECT NO. 196489000 SHEET

PRELIMINARY

PCD FILE NO. COM2346



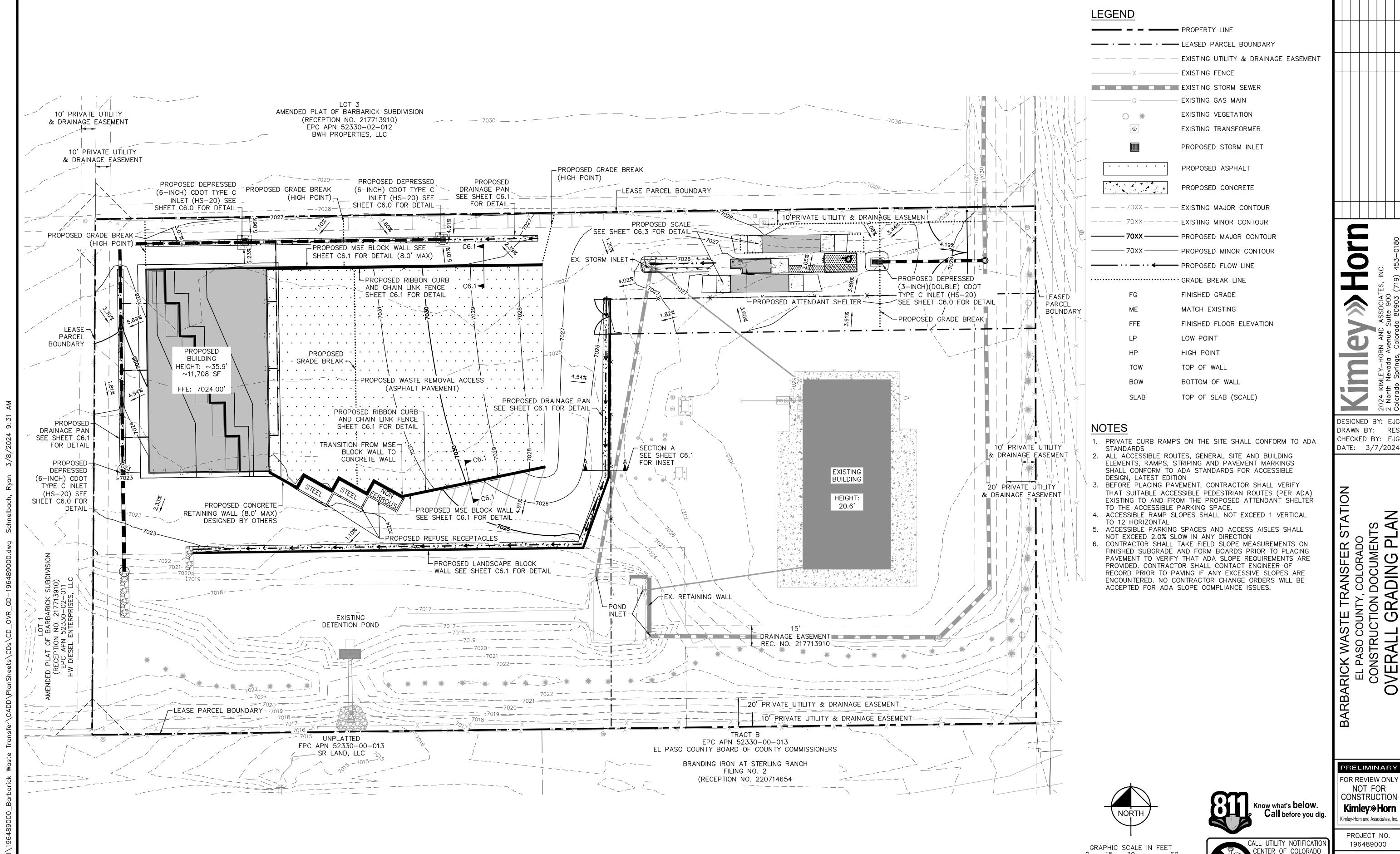




Kimley»Horn

C1.2

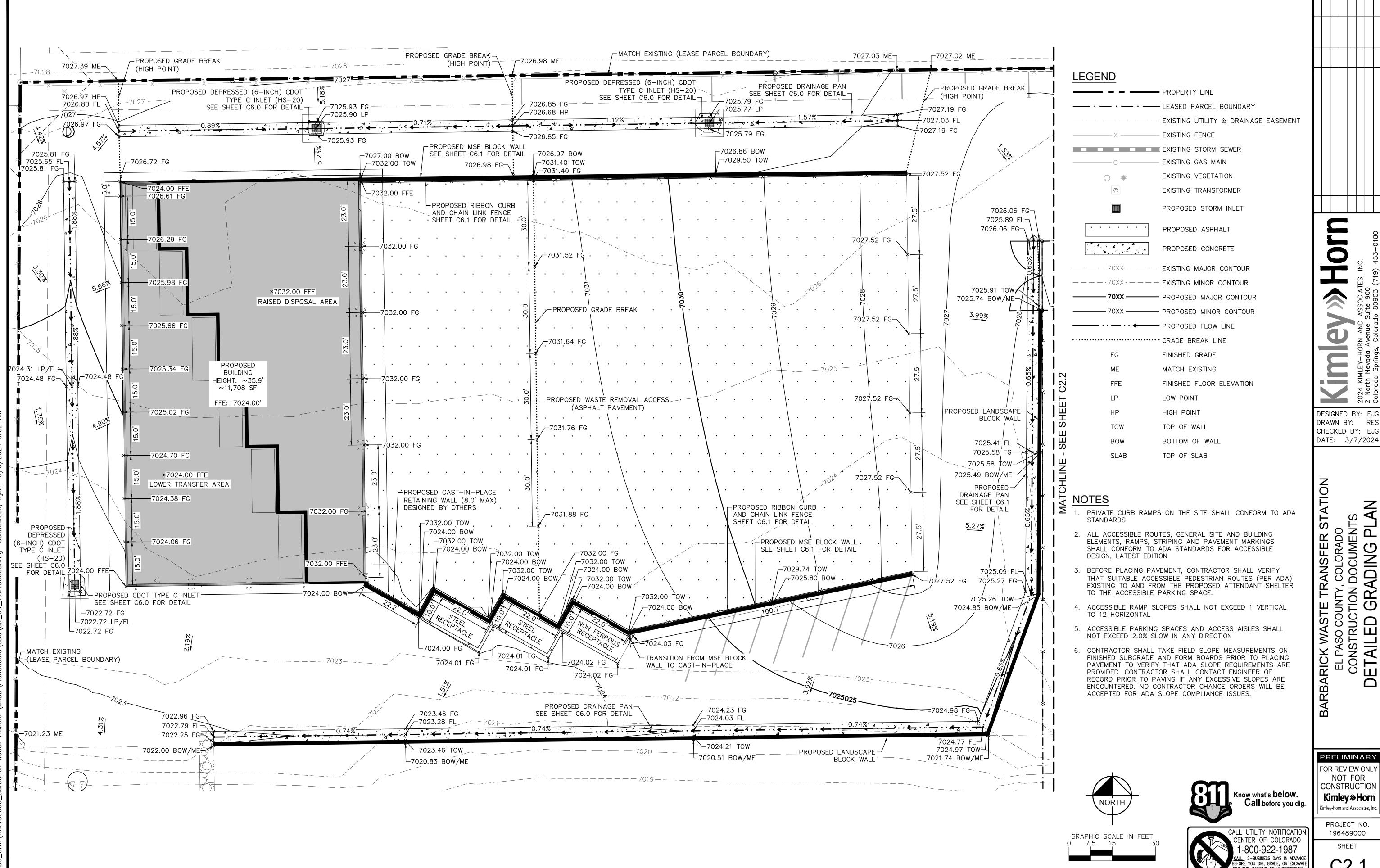
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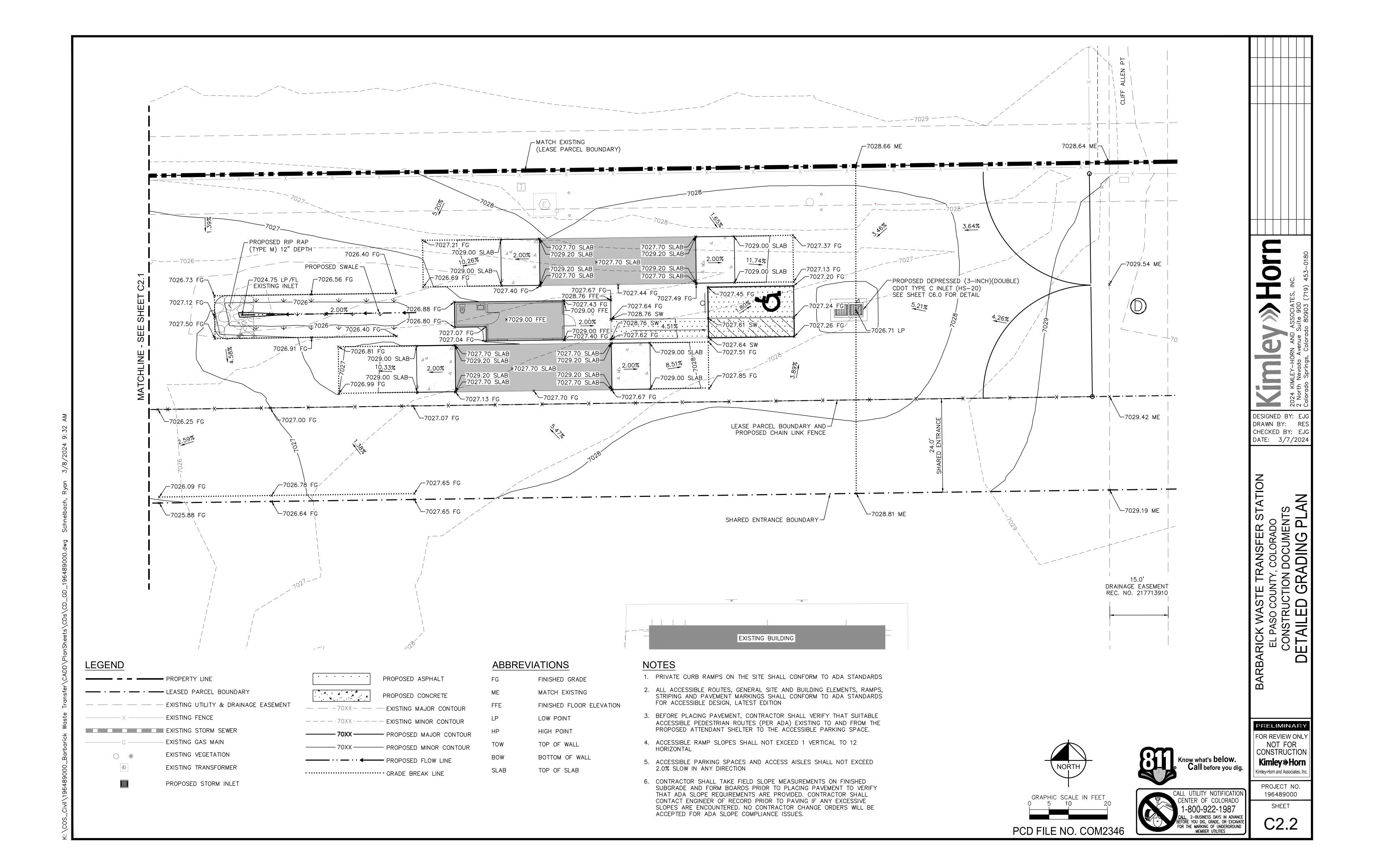
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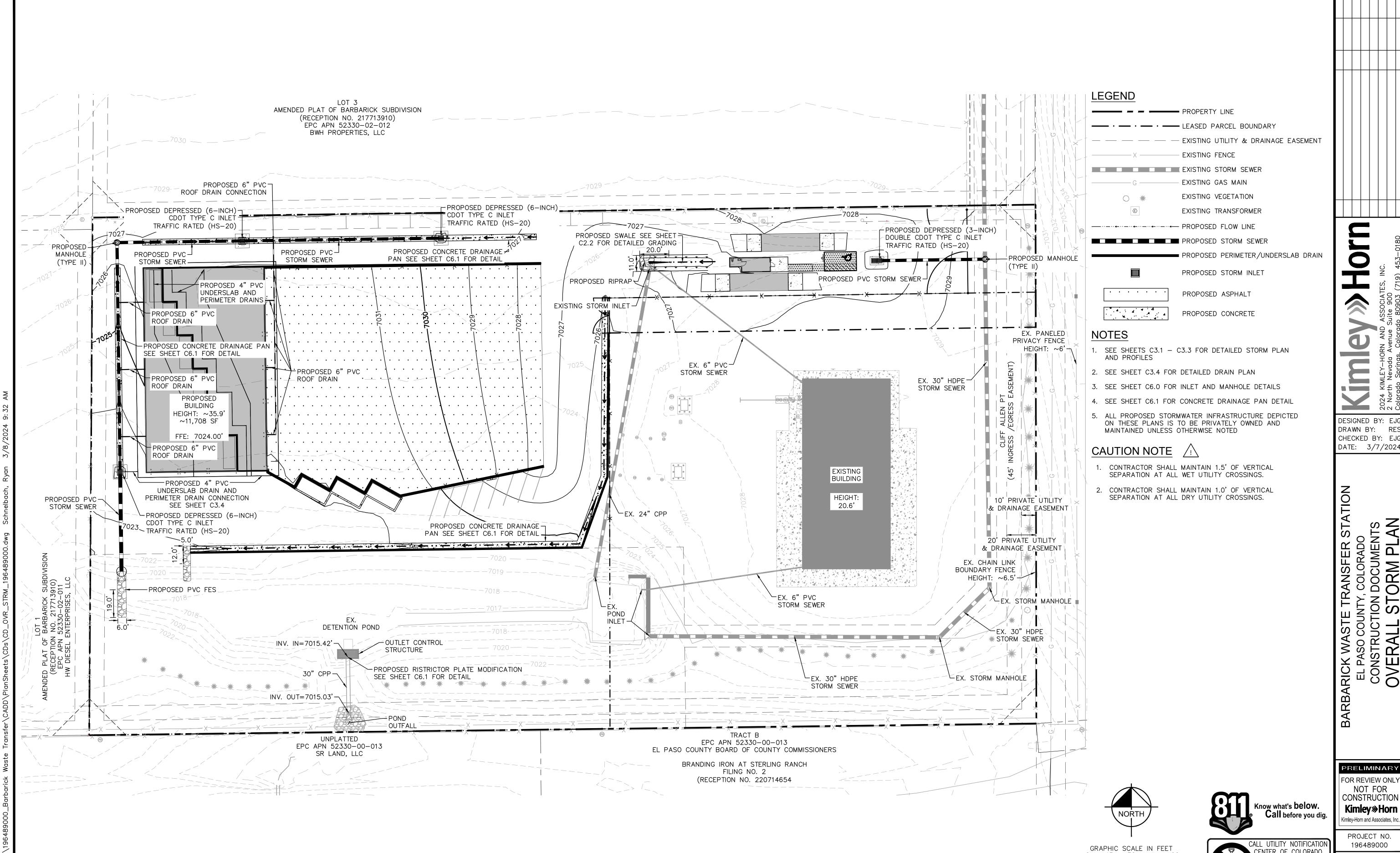
SHEET



FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES

PCD FILE NO. COM2346



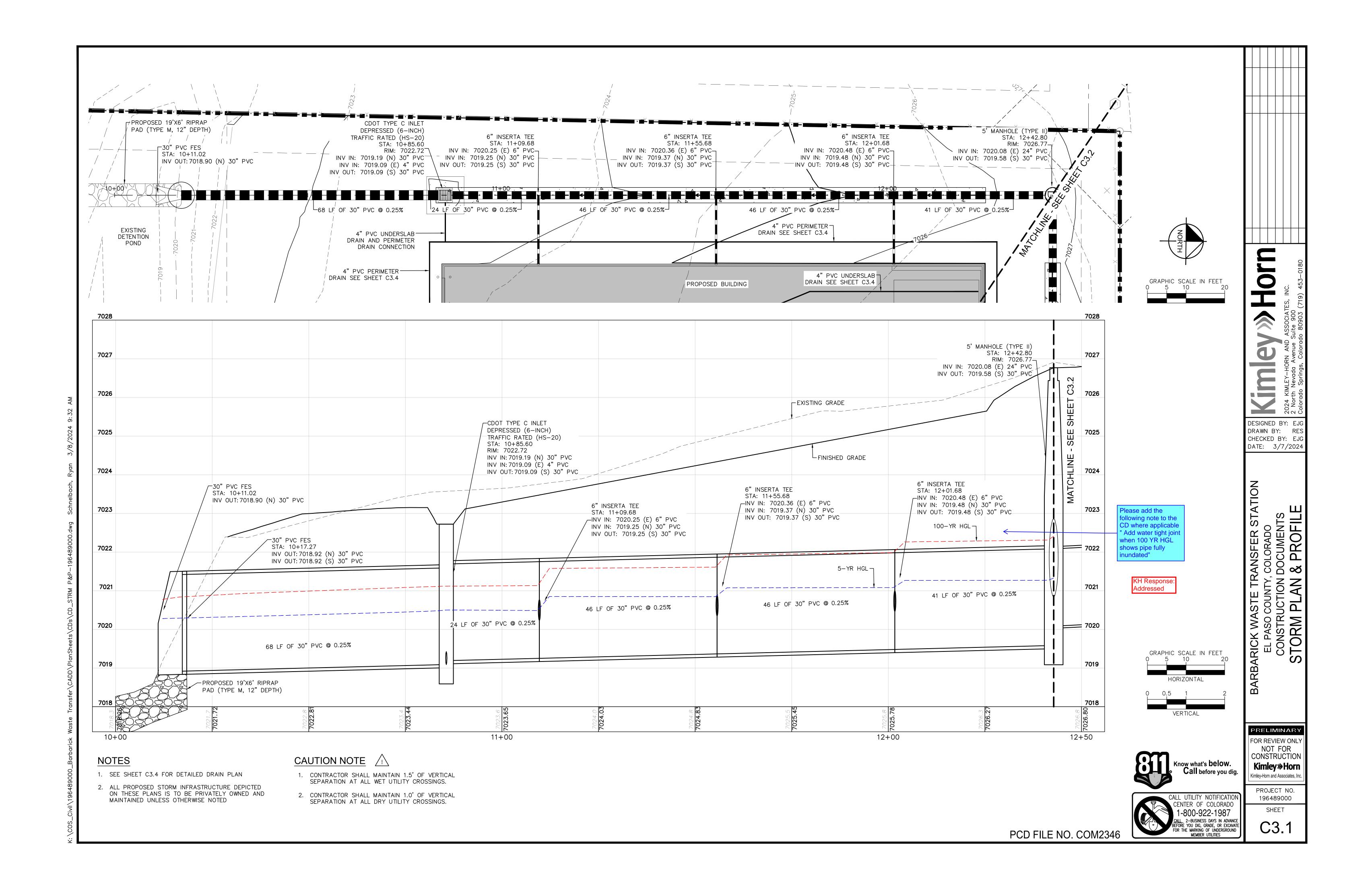


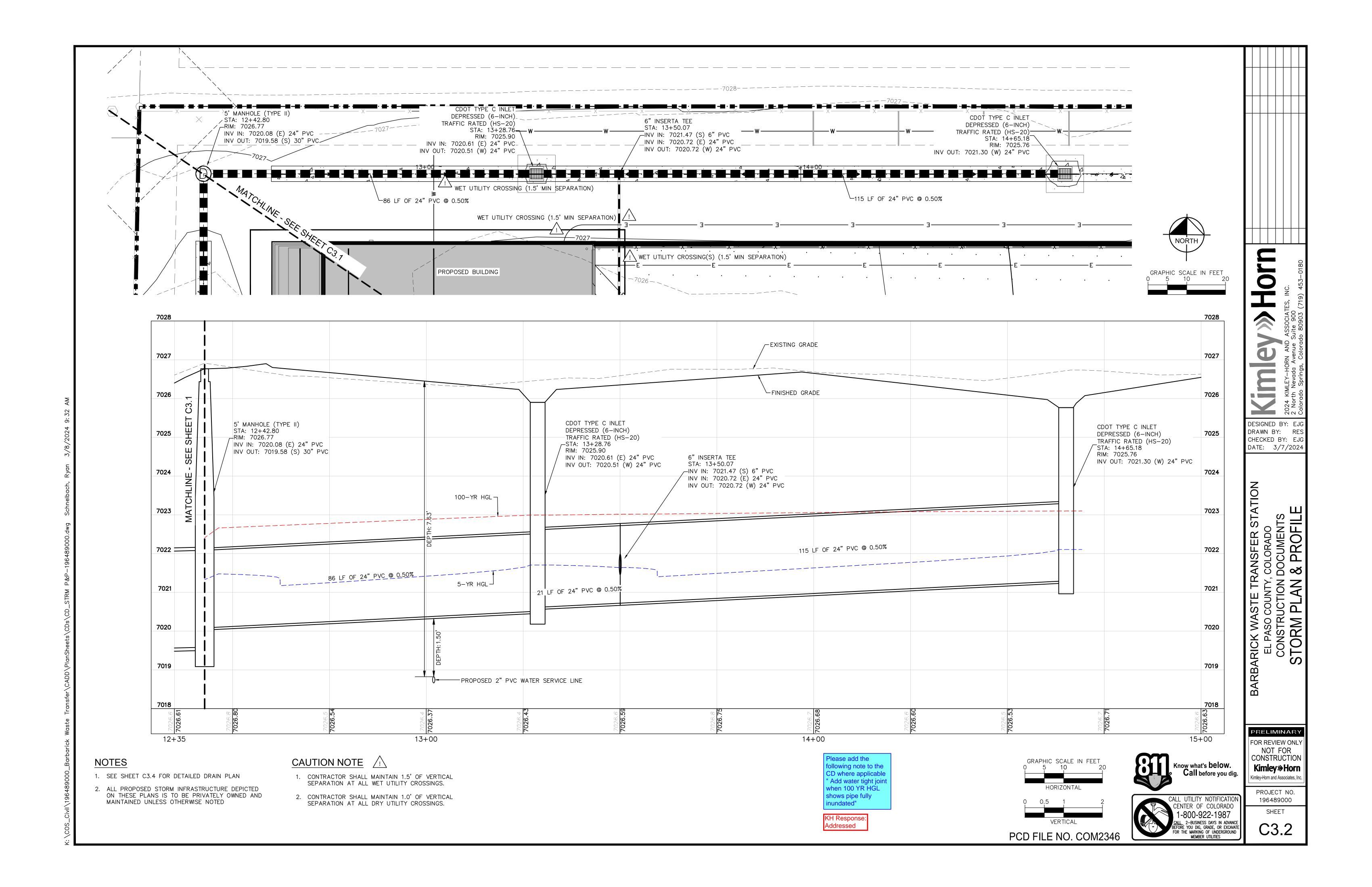


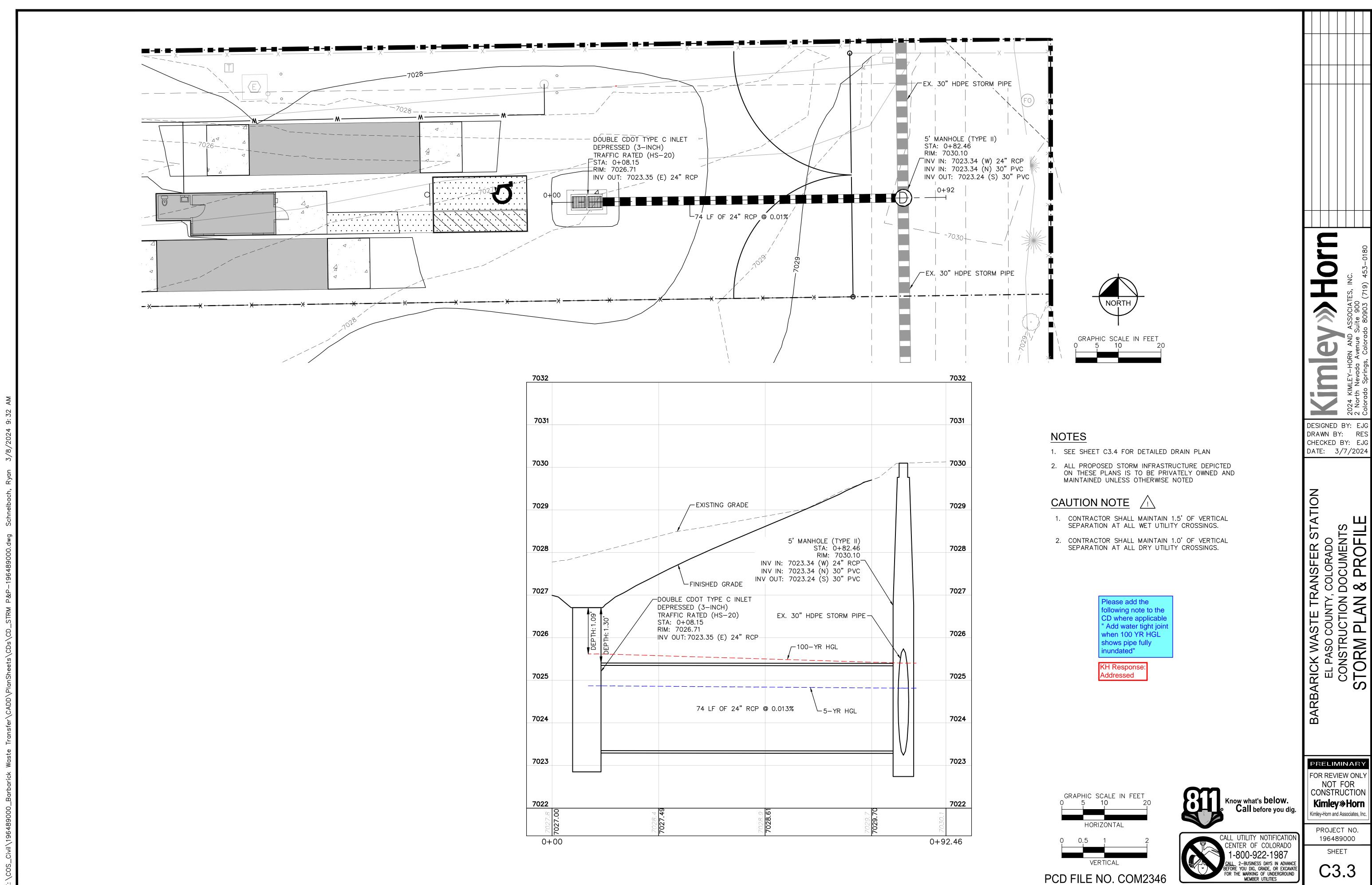
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SHEET

C3.0



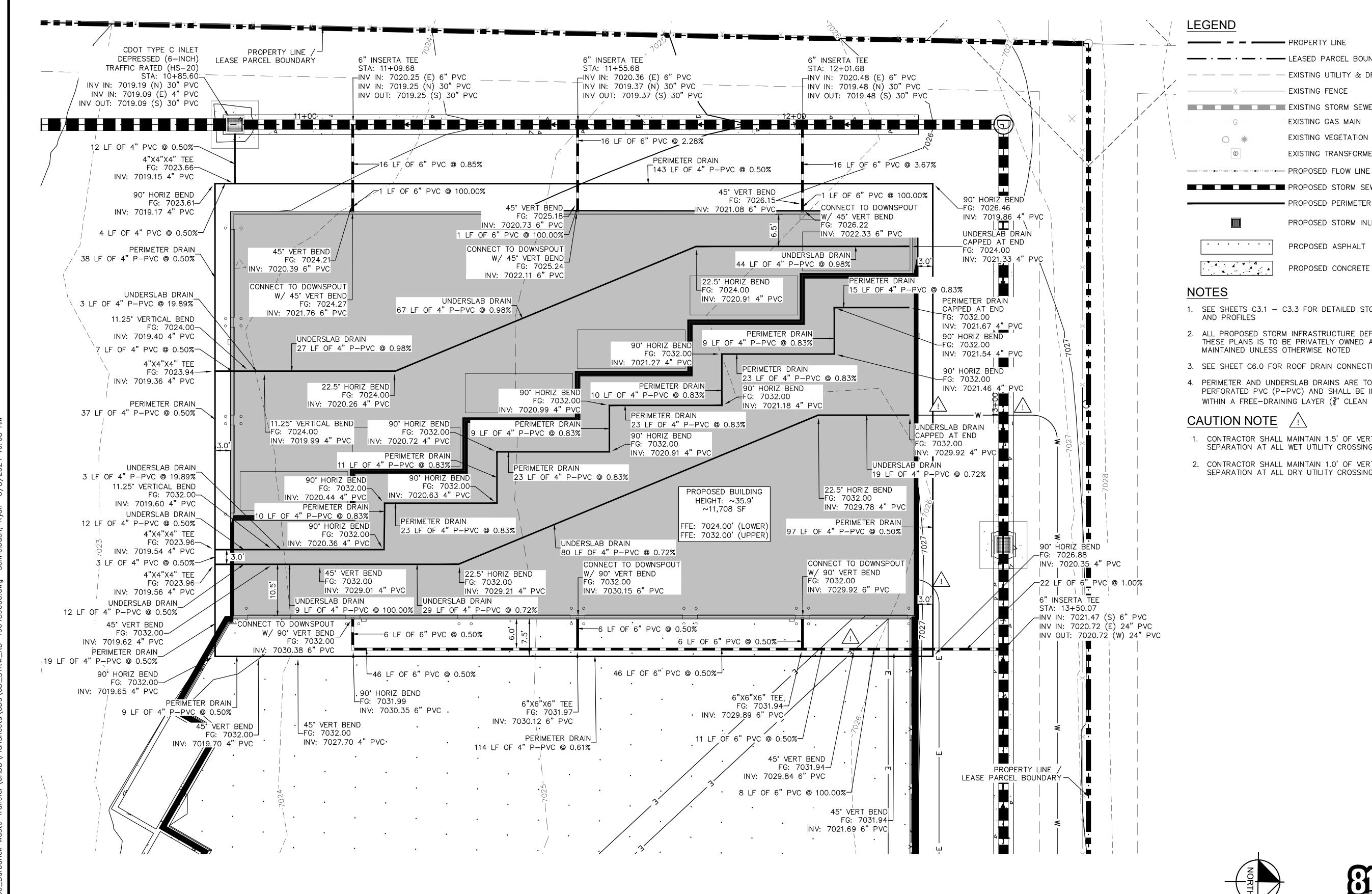




CHECKED BY: EJG



C3.3



LEGEND

PROPERTY LINE

— · — LEASED PARCEL BOUNDARY

EXISTING UTILITY & DRAINAGE EASEMENT

- EXISTING FENCE

EXISTING STORM SEWER

EXISTING VEGETATION ○ *

EXISTING TRANSFORMER

EXISTING GAS MAIN

PROPOSED STORM INLET

PROPOSED STORM SEWER

PROPOSED PERIMETER / UNDERSLAB DRAIN

PROPOSED ASPHALT

PROPOSED CONCRETE

NOTES

- 1. SEE SHEETS C3.1 C3.3 FOR DETAILED STORM PLAN AND PROFILES
- 2. ALL PROPOSED STORM INFRASTRUCTURE DEPICTED ON THESE PLANS IS TO BE PRIVATELY OWNED AND MAINTAINED UNLESS OTHERWISE NOTED
- 3. SEE SHEET C6.0 FOR ROOF DRAIN CONNECTION DETAIL
- 4. PERIMETER AND UNDERSLAB DRAINS ARE TO BE PERFORATED PVC (P-PVC) AND SHALL BE INSTALLED WITHIN A FREE-DRAINING LAYER (3" CLEAN GRAVEL).

CAUTION NOTE /!\

- 1. CONTRACTOR SHALL MAINTAIN 1.5' OF VERTICAL SEPARATION AT ALL WET UTILITY CROSSINGS.
- 2. CONTRACTOR SHALL MAINTAIN 1.0' OF VERTICAL SEPARATION AT ALL DRY UTILITY CROSSINGS.

GRAPHIC SCALE IN FEET

PCD FILE NO. COM2346

DESIGNED BY: EJO DRAWN BY: RE CHECKED BY: EJG DATE: 3/7/2024

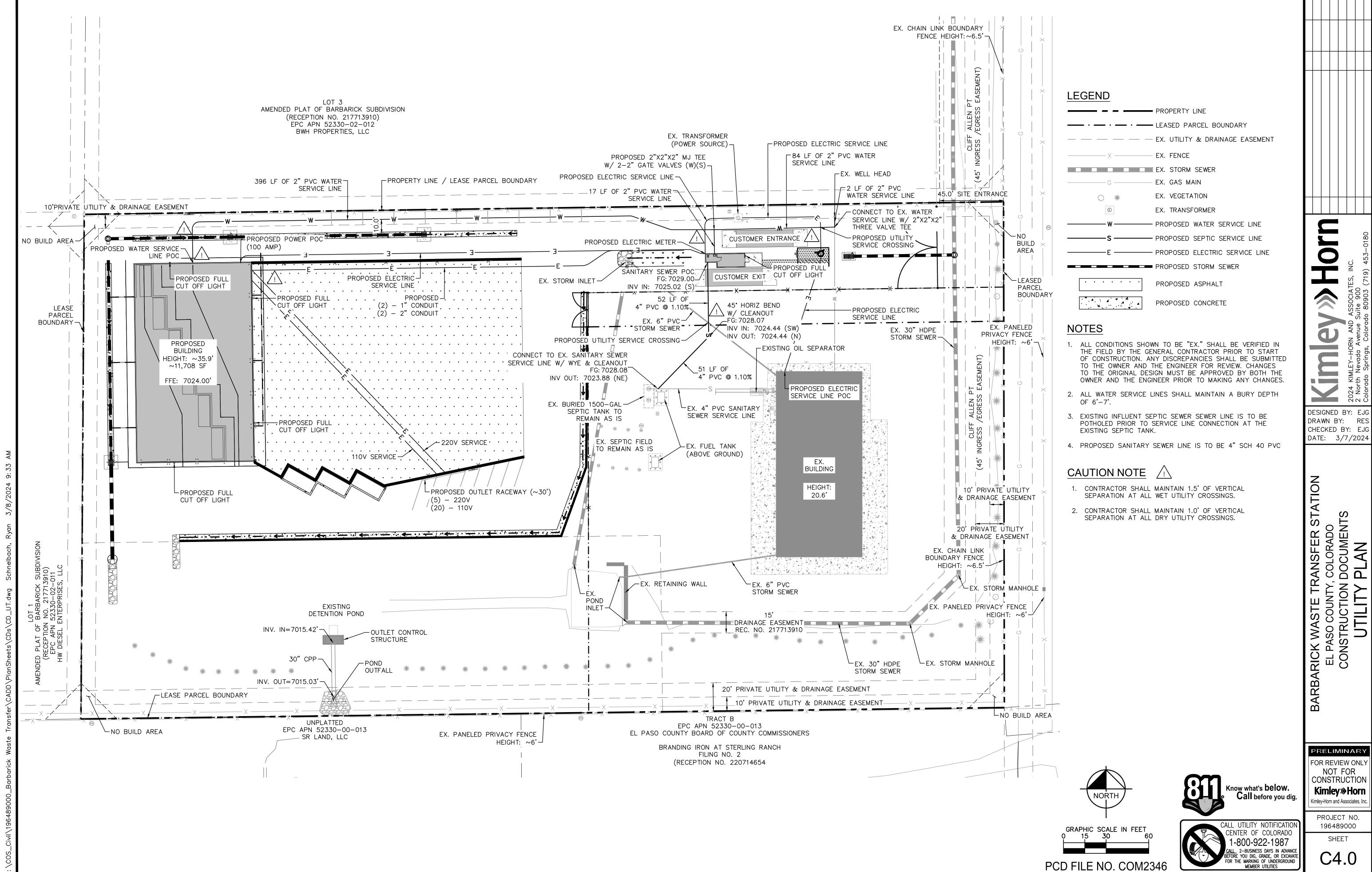
BARICK WASTE TRANSFER STATION
EL PASO COUNTY, COLORADO
CONSTRUCTION DOCUMENTS
DRAIN PLAN

PRELIMINARY FOR REVIEW ONLY NOT FOR CONSTRUCTION Know what's **below. Call** before you dig. **Kimley** **Horn

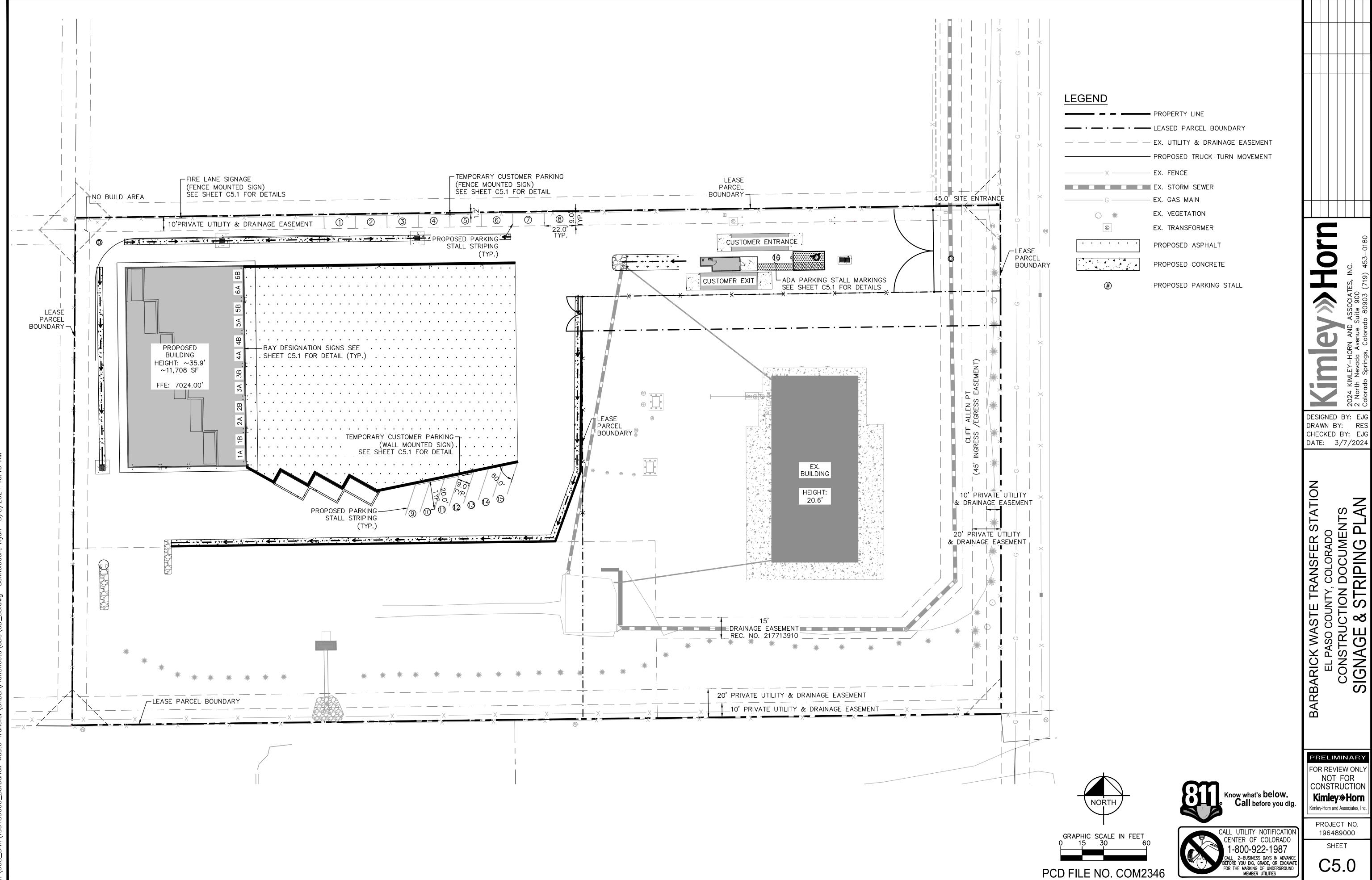


imley-Horn and Associates, In PROJECT NO. 196489000 SHEET

C3.4

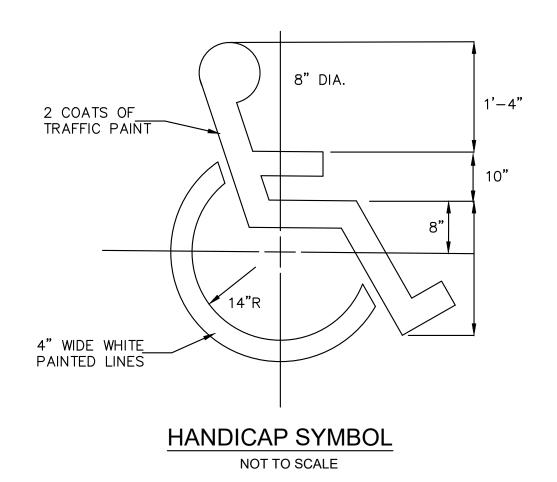


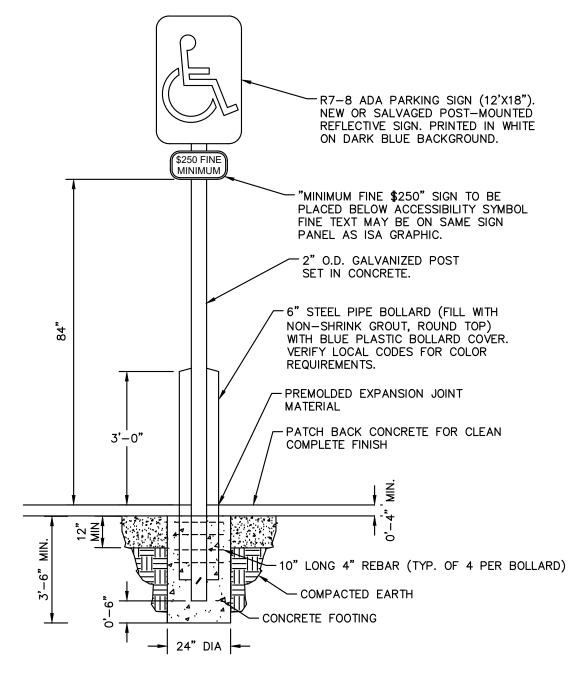




- 1. DIMENSIONS MAY VARY REFER TO SITE PLAN (SHEET C5.0).
- 2. SIGNAGE AND MARKINGS TO BE IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.

ACCESSIBLE PARKING DETAIL NOT TO SCALE





ADA PARKING SIGN DETAILS NOT TO SCALE



FIRE LANE SIGNAGE DETAIL NOT TO SCALE

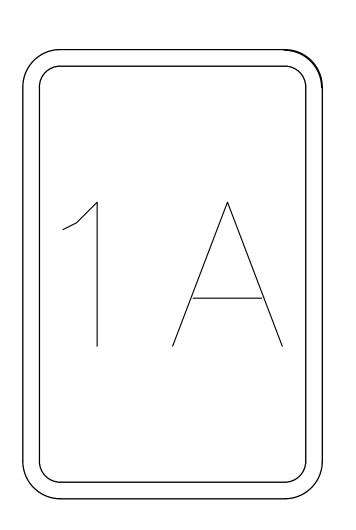
THAN TWO INCH (2") LETTERING AND HAVE A MINIMUM DIMENSION OF TWELVE INCHES (12") WIDE BY EIGHTEEN INCHES

- (18") HIGH.

 2. REFER TO THE COLORADO SPRINGS FIRE DEPARTMENT FIRE LANE STRIPING AND SIGNING HANDBOOK FOR ACCEPTABLE ALTERNATIVES AND REQUIREMENTS.
- 3. SIGN IS TO BE FENCE MOUNTED (CHAIN LINK FENCE).







BAY DESIGNATION SIGN DETAIL NOT TO SCALE





PCD FILE NO. COM2346

PRELIMINARY FOR REVIEW ONLY NOT FOR CONSTRUCTION **Kimley»Horn** imley-Horn and Associates, Inc

PROJECT NO. 196489000 SHEET

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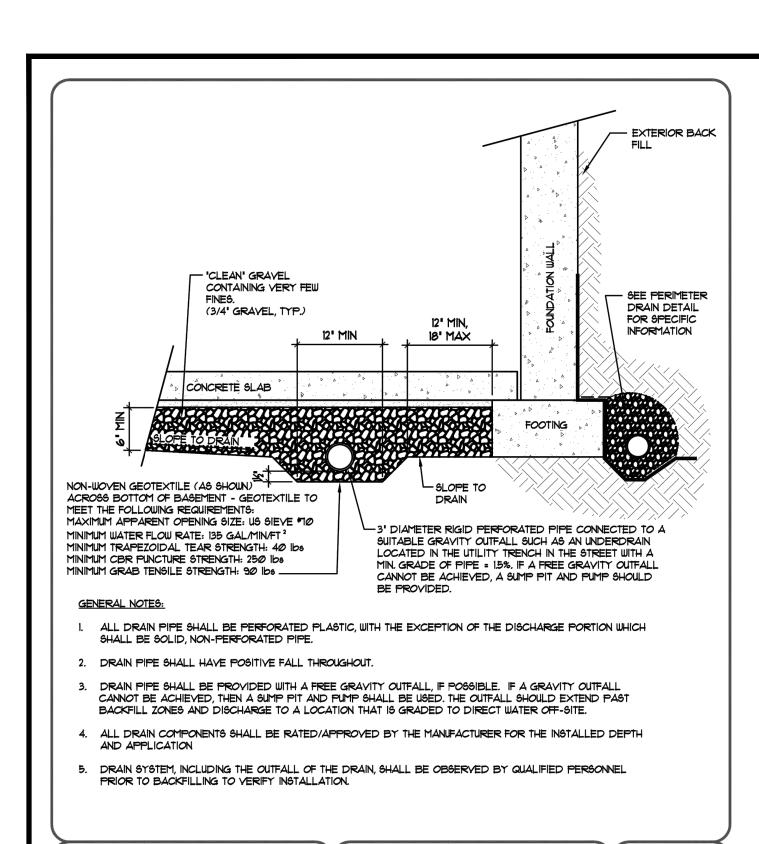
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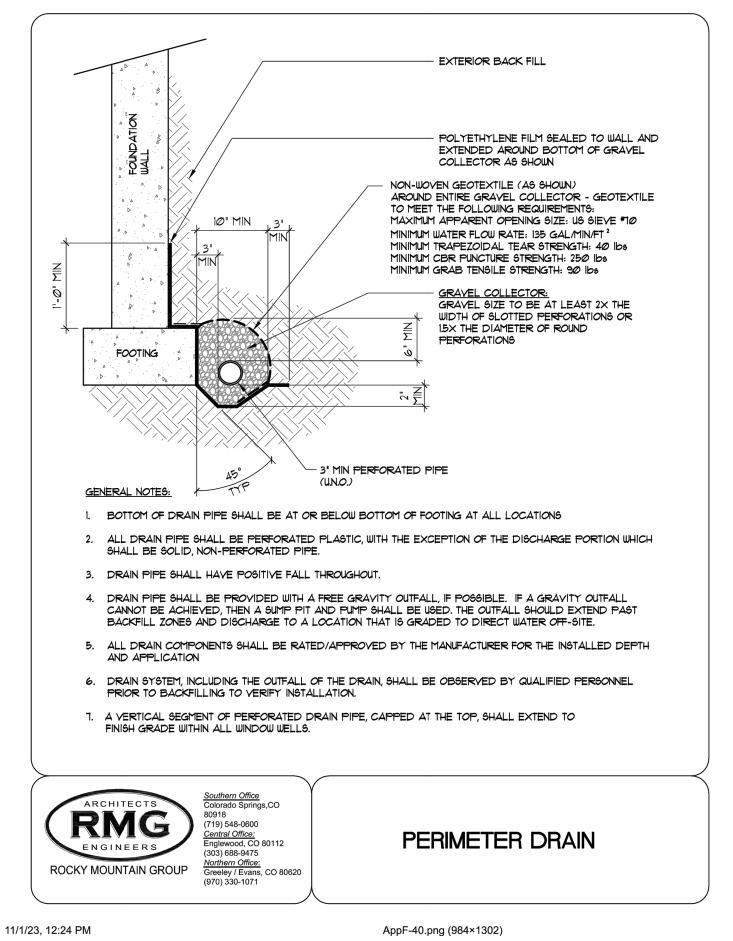
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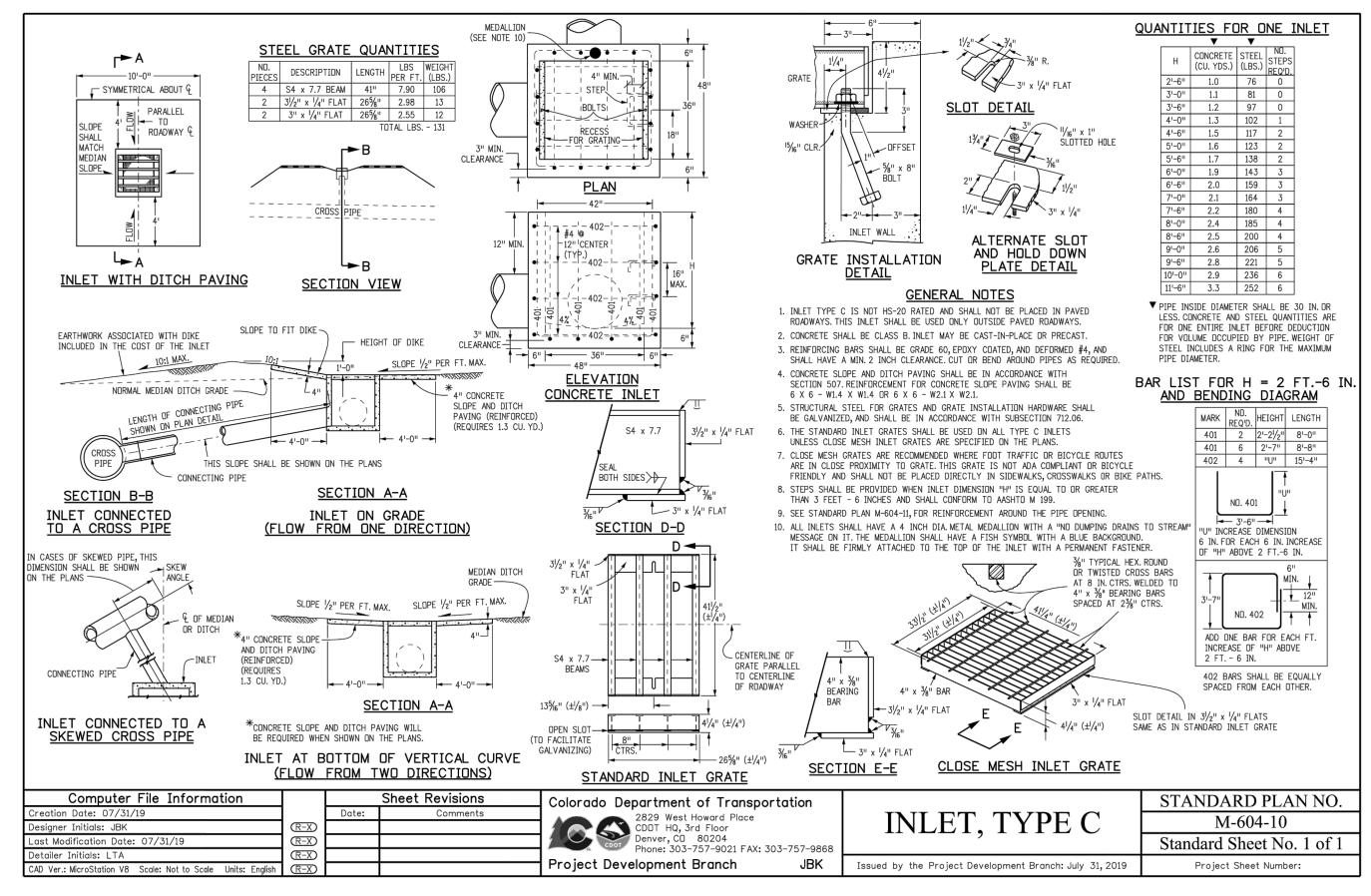
DESIGNED BY: EJO DRAWN BY: RE CHECKED BY: EJG DATE: 3/7/2024

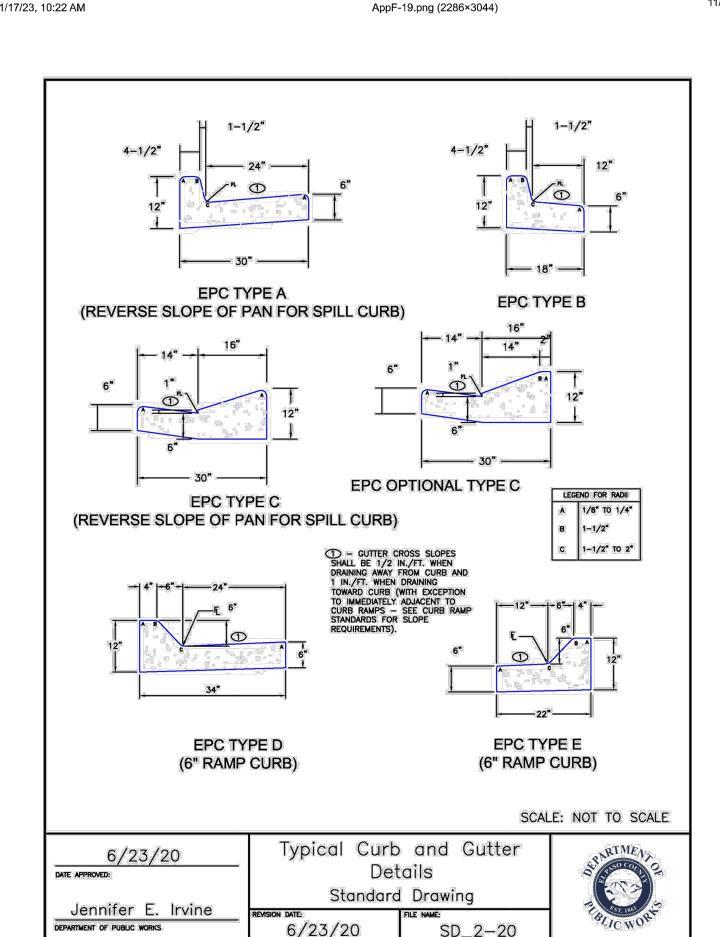
BARBARICK WASTE TRANSFER STATION
EL PASO COUNTY, COLORADO
CONSTRUCTION DOCUMENTS
SIGNAGE & STRIPING DETAILS

C5.1



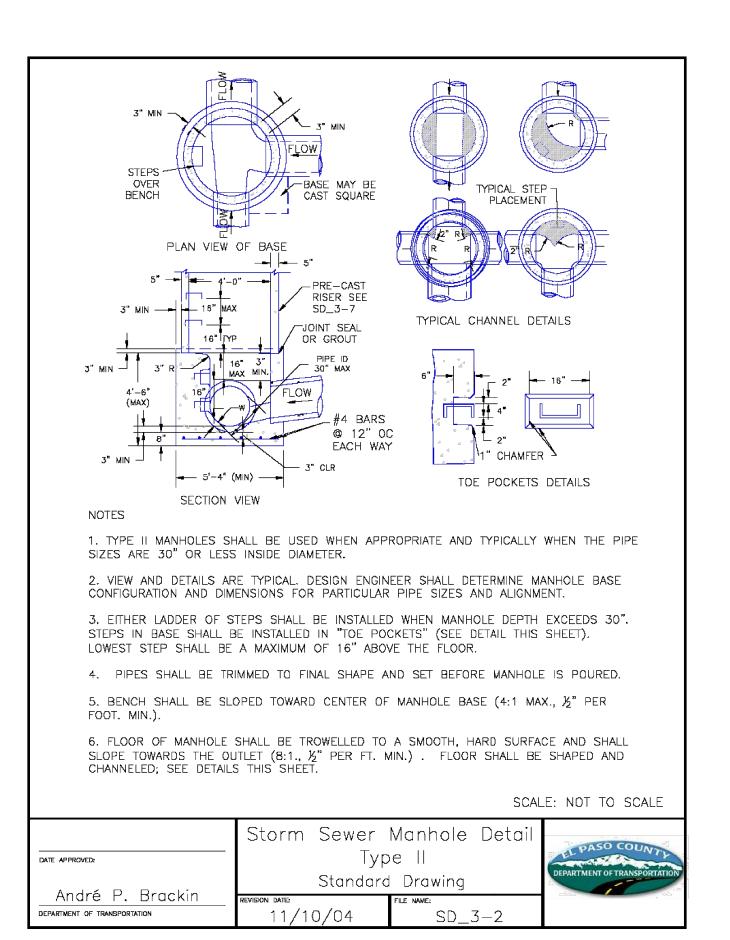


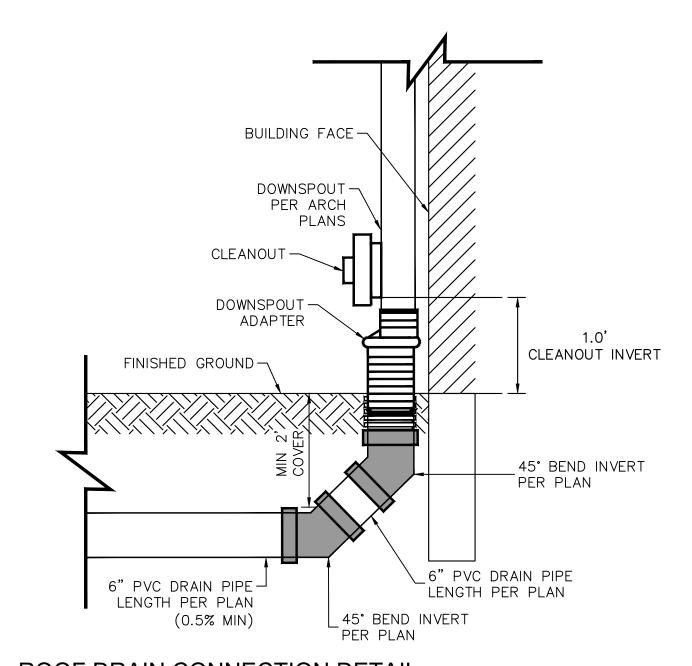




UNDERSLAB DRAIN

FIG No. 8





PRELIMINARY FOR REVIEW ONL CONSTRUCTION **Kimley Horn** Kimley-Horn and Associates, In

> PROJECT NO. 196489000 SHEET

> > C6.0

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Engineers / Architects

2910 AUSTIN BLUFFS PKWY, SUITE 10 COLORADO SPRINGS, CO 80918

(719) 548-0600 ~ WWW.RMGENGINEERS.COM

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PCD FILE NO. COM2346

ROOF DRAIN CONNECTION DETAIL

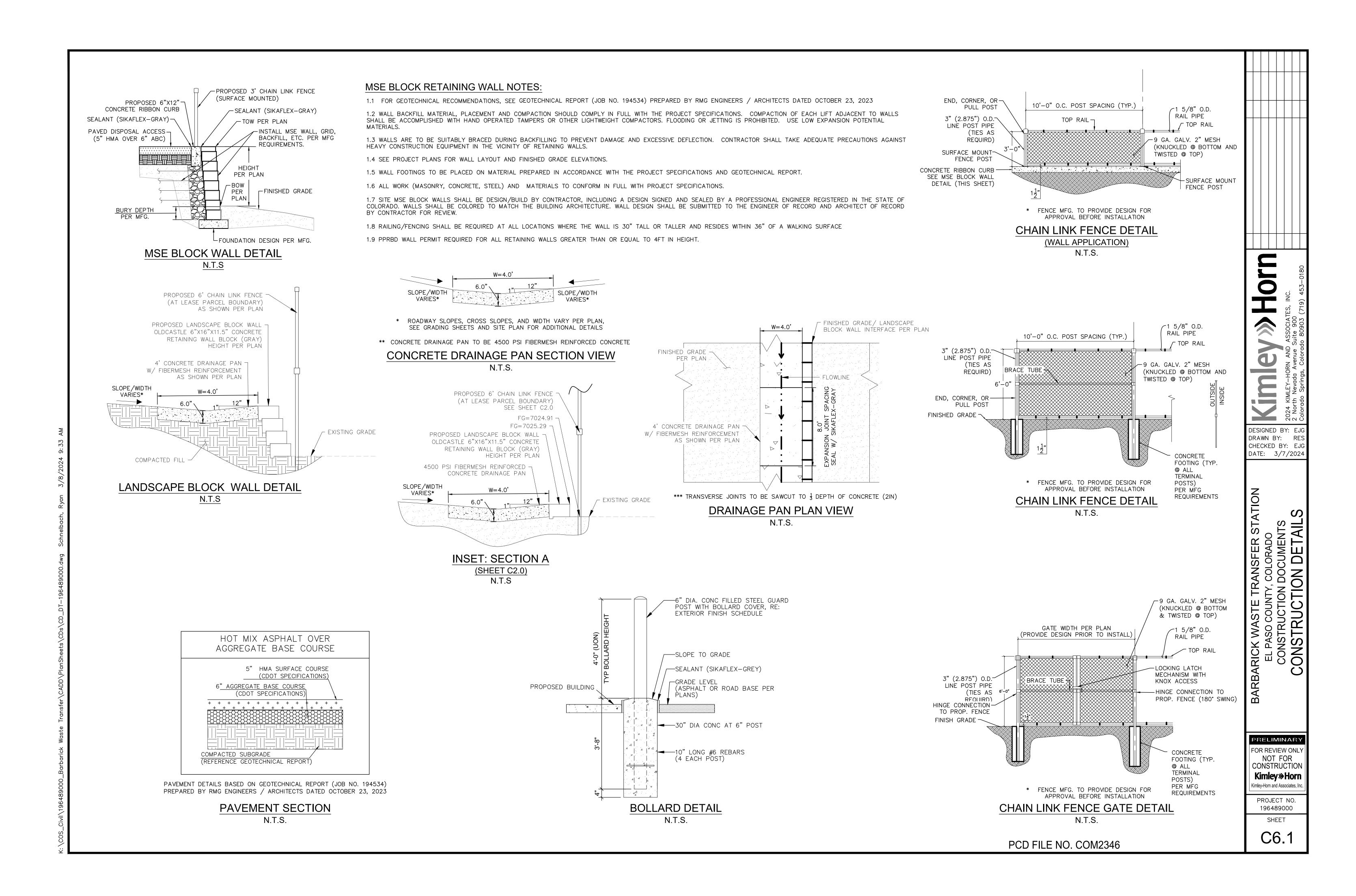
DESIGNED BY: EJ

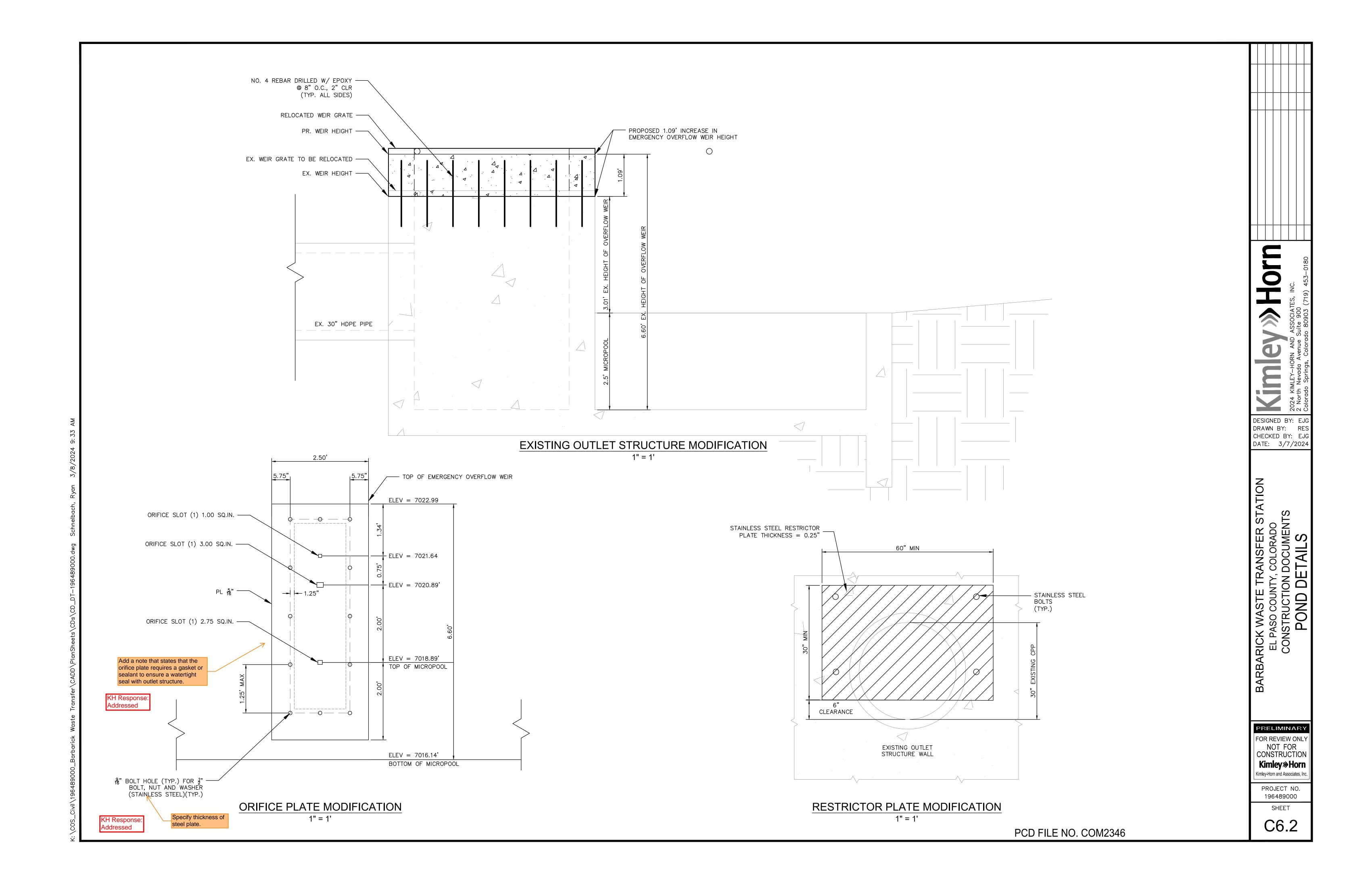
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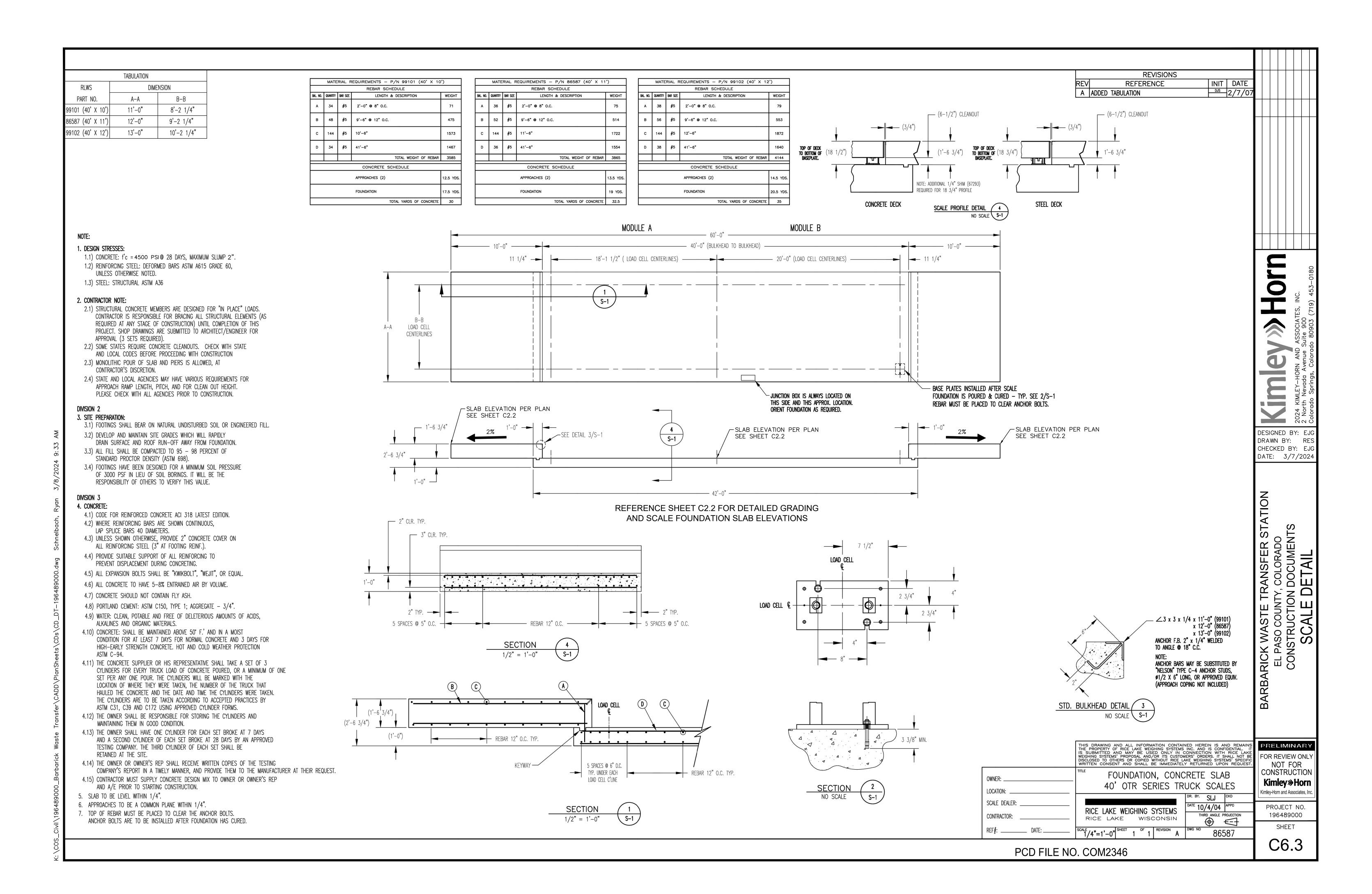
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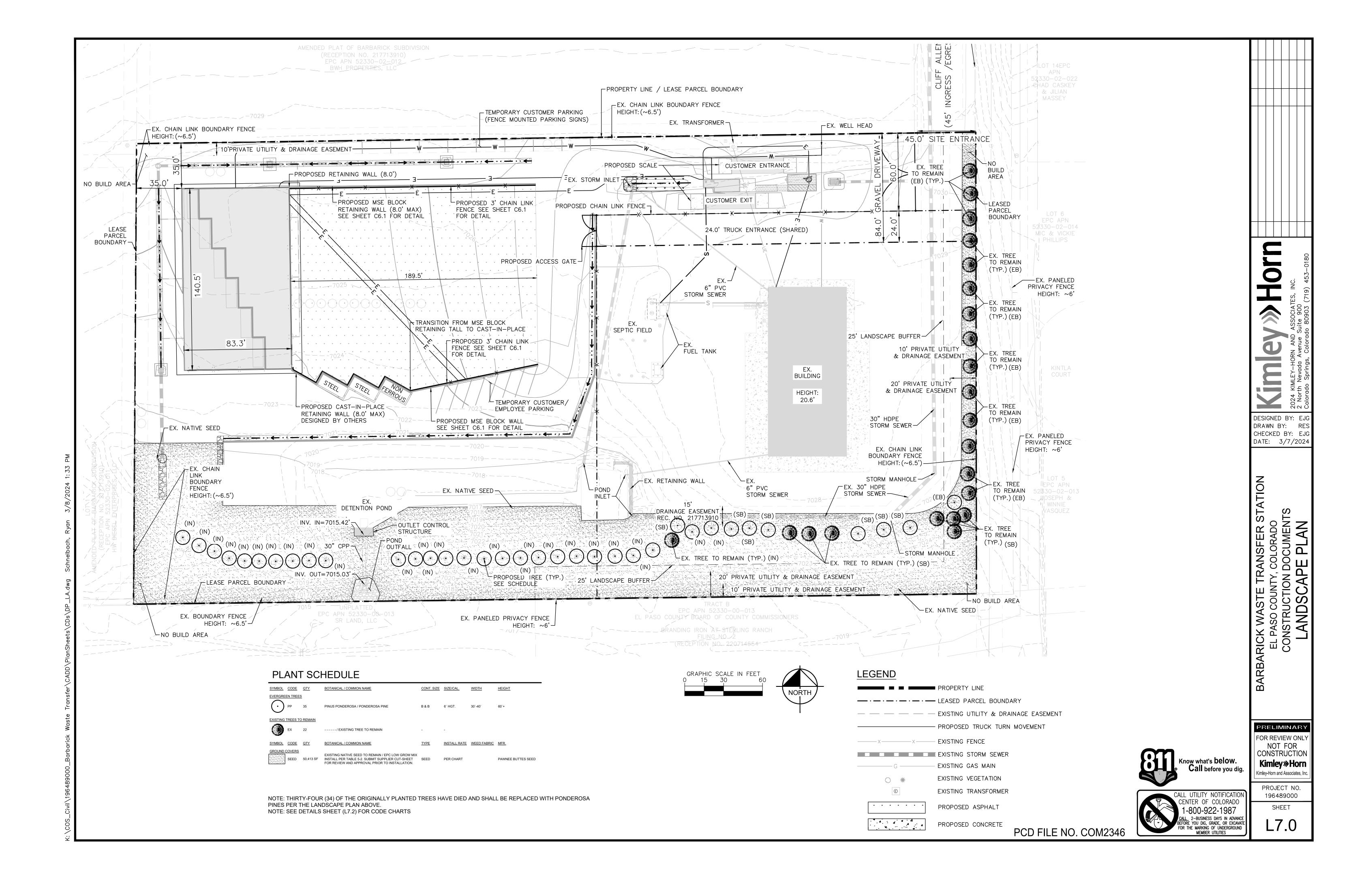
BARBARICK WASTE TRANS
EL PASO COUNTY, COLC
CONSTRUCTION DOCI
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A. SCOPE OF WORK

- 1. THE WORK CONSISTS OF: FURNISHING ALL LABOR, MATERIALS, EQUIPMENT, TOOLS, TRANSPORTATION, AND ANY OTHER APPURTENANCES NECESSARY FOR THE COMPLETION OF THIS PROJECT AS SHOWN ON THE DRAWINGS AND AS SPECIFIED
- 2. WORK SHALL INCLUDE MAINTENANCE AND WATERING OF ALL CONTRACT PLANTING AREAS UNTIL CERTIFICATION OF ACCEPTANCE BY THE OWNER.

B. PROTECTION OF EXISTING STRUCTURES

- 1. ALL EXISTING BUILDINGS, WALKS, WALLS, PAVING, PIPING, OTHER SITE CONSTRUCTION ITEMS, AND PLANTING ALREADY COMPLETED OR ESTABLISHED AND DESIGNATED TO REMAIN SHALL BE PROTECTED FROM DAMAGE BY THE CONTRACTOR UNLESS OTHERWISE SPECIFIED. ALL DAMAGE RESULTING FROM NEGLIGENCE SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER, AT NO COST TO THE OWNER.
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL NECESSARY BEST MANAGEMENT PRACTICES (BMP) DEVICES ACCORDING TO ALL REGULATORY AGENCY'S STANDARDS THROUGH THE DURATION OF ALL CONSTRUCTION
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY MAINTENANCE OF TRAFFIC (MOT) THAT MAY BE REQUIRED FOR THE
- 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES, WHETHER PUBLIC OR PRIVATE, PRIOR TO EXCAVATION. THE OWNER AND DESIGN PROFESSIONAL SHALL NOT BE RESPONSIBLE FOR THE ACCURACY AND COMPLETENESS OF ANY SUCH INFORMATION OR DATA. THE CONTRACTOR SHALL HAVE FULL RESPONSIBILITY FOR; REVIEWING AND CHECKING ALL SUCH INFORMATION AND DATA; LOCATING ALL UNDERGROUND FACILITIES DURING CONSTRUCTION; THE SAFETY AND PROTECTION THEREOF; REPAIRING ANY DAMAGE THERETO RESULTING FROM THE WORK. THE COST OF ALL WILL BE CONSIDERED AS HAVING BEEN INCLUDED IN THE CONTRACT PRICE. THE CONTRACTOR SHALL NOTIFY ANY AFFECTED UTILITY COMPANIES OR AGENCIES IN WRITING AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION.

PROTECTION OF EXISTING PLANT MATERIALS

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL UNAUTHORIZED CUTTING OR DAMAGE TO TREES AND SHRUBS EXISTING OR OTHERWISE CAUSED BY CARELESS FOLIPMENT OPERATION MATERIAL STOCKPILING FTC. THIS SHALL INCLUDE COMPACTION BY DRIVING OR PARKING INSIDE THE DRIP-LINE AND SPILLING OIL, GASOLINE, OR OTHER DELETERIOUS MATERIALS WITHIN THE DRIP-LINE. NO MATERIALS SHALL BE BURNED ON SITE. EXISTING TREES KILLED OR DAMAGED SO THAT THEY ARE MISSHAPEN AND/OR UNSIGHTLY SHALL BE REPLACED AT THE COST TO THE CONTRACTOR OF FOUR HUNDRED DOLLARS (\$400) PER CALIPER INCH ON AN ESCALATING SCALE WHICH ADDS AN ADDITIONAL TWENTY (20) PERCENT PER INCH OVER FOUR (4) INCHES CALIPER AS FIXED AND AGREED LIQUIDATED DAMAGES. CALIPER SHALL BE MEASURED SIX (6) INCHES ABOVE GROUND LEVEL FOR TREES UP TO AND INCLUDING FOUR (4) INCHES IN CALIPER AND TWELVE (12) INCHES ABOVE GROUND LEVEL FOR TREES OVER FOUR (4) INCHES IN CALIPER.
- 2. SEE TREE MITIGATION PLAN AND NOTES, IF APPLICABLE.
- 3. ALL TREES PROPOSED TO BE REMOVED WITHIN THE PUBLIC RIGHT-OF-WAY MUST BE COORDINATED WITH THE FORESTRY DEPARTMENT FOR PERMIT PRIOR TO TREE REMOVAL

MATERIALS

GENERAL

MATERIAL SAMPLES LISTED BELOW SHALL BE SUBMITTED FOR APPROVAL, ON SITE OR AS DETERMINED BY THE OWNER. UPON APPROVAL, DELIVERY OF MATERIALS MAY COMMENCE.

SAMPLE SIZE ONE (1) CUBIC FOOT TOPSOIL MIX

ONE (1) CUBIC FOOT

ONE (1) OF EACH VARIETY (OR TAGGED IN NURSERY)

PLANT MATERIALS

- a. FURNISH NURSERY-GROWN PLANTS TRUE TO GENUS, SPECIES, VARIETY, CULTIVAR, STEM FORM, SHEARING, AND OTHER FEATURES INDICATED IN PLANT SCHEDULE SHOWN ON DRAWINGS AND COMPLYING WITH ANSI Z60.1 AND THE COLORADO NURSERY ACT: AND WITH HEALTHY ROOT SYSTEMS DEVELOPED BY TRANSPLANTING OR ROOT PRUNING. PROVIDE WELL-SHAPED FULLY BRANCHED HEALTHY VIGOROUS STOCK DENSELY FOLIATED WHEN IN LEAF AND ERFE OF DISEASE PESTS, EGGS, LARVAE, AND DEFECTS SUCH AS KNOTS, SUN SCALD, INJURIES, ABRASIONS, AND DISFIGUREMENT.
- b. TREES FOR PLANTING IN ROWS SHALL BE UNIFORM IN SIZE AND SHAPE.
- z NO SUBSTITUTIONS SHALL BE MADE WITHOUT WRITTEN PERMISSION FROM THE PROJECT LANDSCAPE ARCHITECT. ANY ROW TREES MUST BE APPROVED BY OFFICE OF THE CITY FORESTER
- d. PROVIDE PLANTS OF SIZES, GRADES, AND BALL OR CONTAINER SIZES COMPLYING WITH ANSI Z60.1 AND COLORADO NURSERY ACT FOR TYPES AND FORM OF PLANTS REQUIRED. PLANTS OF A LARGER SIZE MAY BE USED IF ACCEPTABLE TO PROJECT LANDSCAPE ARCHITECT WITH A PROPORTIONATE INCREASE IN SIZE OF ROOTS OR BALLS.
- e. PLANTS SHALL BE SUBJECT TO INSPECTION AND APPROVAL AT THE PLACE OF GROWTH, OR UPON DELIVERY TO THE SITE, AS DETERMINED BY THE OWNER, FOR QUALITY, SIZE, AND VARIETY. SUCH APPROVAL SHALL NOT IMPAIR THE RIGHT OF INSPECTION AND REJECTION AT THE SITE DURING PROGRESS OF THE WORK OR AFTER COMPLETION FOR SIZE AND CONDITION OF ROOT BALLS OR ROOTS, LATENT DEFECTS OR INJURIES. REJECTED PLANTS SHALL BE REMOVED IMMEDIATELY FROM THE SITE. NOTICE REQUESTING INSPECTION SHALL BE SUBMITTED IN WRITING BY THE CONTRACTOR AT LEAST ONE (1) WEEK PRIOR TO ANTICIPATED DATE
- f. TREES WITH DAMAGED, CROOKED, OR MULTIPLE LEADERS; TIGHT VERTICAL BRANCHES WHERE BARK IS SQUEEZED BETWEEN TWO BRANCHES OR BETWEEN BRANCH AND TRUNK ("INCLUDED BARK"); CROSSING TRUNKS; CUT-OFF LIMBS MORE THAN $\frac{3}{4}$ INCH (19 MM) IN DIAMETER; OR WITH STEM GIRDLING ROOTS WILL BE REJECTED.
- g. FURNISH TREES AND SHRUBS WITH ROOTS BALLS MEASURED FROM TOP OF ROOT BALL, WHICH SHALL BEGIN AT ROOT FLARE ACCORDING TO ANSI Z60.1 AND COLORADO NURSERY ACT. ROOT FLARE SHALL BE VISIBLE BEFORE PLANTING.
- h. LABEL AT LEAST ONE PLANT OF EACH VARIETY, SIZE, AND CALIPER WITH A SECURELY ATTACHED, WATERPROOF TAG BEARING LEGIBLE DESIGNATION OF COMMON NAME AND FULL SCIENTIFIC NAME, INCLUDING GENUS AND SPECIES. INCLUDE NOMENCLATURE FOR HYBRID, VARIETY, OR CULTIVAR, IF APPLICABLE FOR THE PLANT AS SHOWN ON DRAWINGS.
- i. IF FORMAL ARRANGEMENTS OR CONSECUTIVE ORDER OF PLANTS IS SHOWN ON DRAWINGS, SELECT STOCK FOR UNIFORM HEIGHT AND SPREAD, AND NUMBER THE LABELS TO ASSURE SYMMETRY IN PLANTING.

E. SOIL MIXTURE

- 1. CONTRACTOR SHALL TEST EXISTING SOIL AND AMEND AS NECESSARY IN ACCORDANCE WITH THE GUIDELINES BELOW:
- 2. SOIL MIXTURE SHALL CONSIST OF TWO PARTS OF TOPSOIL AND ONE PART SAND, AS DESCRIBED BELOW. CONTRACTOR TO SUBMIT SAMPLES AND PH TESTING RESULTS OF SOIL MIXTURE FOR OWNER'S REPRESENTATIVE APPROVAL PRIOR TO PLANT INSTALLATION OPERATIONS COMMENCE.
- a. TOPSOIL FOR USE IN PREPARING SOIL MIXTURE FOR BACKFILLING PLANT OPENINGS SHALL BE FERTILE, FRIABLE, AND OF A LOAMY CHARACTER; REASONABLY FREE OF SUBSOIL, CLAY LUMPS, BRUSH WEEDS AND OTHER LITTER; FREE OF ROOTS, STUMPS, STONES LARGER THAN 2" IN ANY DIRECTION, AND OTHER EXTRANEOUS OR TOXIC MATTER HARMFUL TO PLANT GROWTH. IT SHALL CONTAIN THREE (3) TO FIVE (5) PERCENT DECOMPOSED ORGANIC MATTER, HAVE A PH BETWEEN 5.5 AND 8.0, AND SOLUBLE SALTS LESS THAN 3.0 MMHOS/CM. SUBMIT SOIL SAMPLE AND PH TESTING RESULTS FOR APPROVAL.
- b. SAND SHALL BE COARSE, CLEAN, WELL-DRAINING, NATIVE SAND.
- 3. TREES SHALL BE PLANTED IN THE EXISTING NATIVE SOIL ON SITE, UNLESS DETERMINED TO BE UNSUITABLE AT WHICH POINT THE CONTRACTOR SHALL CONTACT THE PROJECT LANDSCAPE ARCHITECT TO DISCUSS ALTERNATE RECOMMENDATION PRIOR TO PLANTING.

- 1. WATER NECESSARY FOR PLANTING AND MAINTENANCE SHALL BE OF SATISFACTORY QUALITY TO SUSTAIN ADEQUATE PLANT GROWTH AND SHALL NOT CONTAIN HARMFUL, NATURAL OR MAN-MADE ELEMENTS DETRIMENTAL TO PLANTS. WATER MEETING THE ABOVE STANDARD SHALL BE OBTAINED ON THE SITE FROM THE OWNER, IF AVAILABLE, AND THE CONTRACTOR SHALL BE RESPONSIBLE TO MAKE ARRANGEMENTS FOR ITS USE BY HIS TANKS. HOSES, SPRINKLERS, ETC... IF SUCH WATER IS NOT AVAILABLE AT THE SITE, THE CONTRACTOR SHALL PROVIDE SATISFACTORY WATER FROM SOURCES OFF THE SITE AT NO ADDITIONAL COST TO THE OWNER.
- * WATERING/IRRIGATION RESTRICTIONS MAY APPLY REFER TO PROPERTY'S JURISDICTIONAL AUTHORITY.

CONTRACTOR SHALL PROVIDE FERTILIZER APPLICATION SCHEDULE TO OWNER, AS APPLICABLE TO SOIL TYPE, PLANT INSTALLATION TYPE, AND SITE'S PROPOSED USE. SUGGESTED FERTILIZER TYPES SHALL BE ORGANIC OR OTHERWISE

NATURALLY-DERIVED

* FERTILIZER RESTRICTIONS MAY APPLY - REFER TO PROPERTY'S JURISDICTIONAL AUTHORITY.

1. MULCH MATERIAL SHALL BE MOISTENED AT THE TIME OF APPLICATION TO PREVENT WIND DISPLACEMENT, AND APPLIED AT A DEPTH OF THREE (3) INCHES CLEAR MULCH FROM EACH PLANT'S CROWN (BASE) OR AS SHOWN IN PLANTING DETAILS. MULCH SHALL BE DOUBLE SHREDDED HARDWOOD MULCH. DYED MULCH IS NOT ACCEPTABLE. SUBMIT SAMPLES TO PROJECT LANDSCAPE ARCHITECT FOR APPROVAL. MULCH SHALL BE PROVIDED OVER THE ENTIRE AREA OF EACH SHRUB BED, GROUND COVER, VINE BED, AND TREE RING (6' MINIMUM) PLANTED UNDER THIS CONTRACT, AS WELL AS FOR ANY EXISTING LANDSCAPE AREAS AS SHOWN ON PLANS.

DIGGING AND HANDLING

- 1. ALL TREES SPECIFIED SHALL BE BALLED AND BURLAPPED (B&B) UNLESS OTHERWISE APPROVED BY PROJECT LANDSCAPE
- 2. PROTECT ROOTS OR ROOT BALLS OF PLANTS AT ALL TIMES FROM SUN, DRYING WINDS, WATER AND FREEZING, AS NECESSARY UNTIL PLANTING. PLANT MATERIALS SHALL BE ADEQUATELY PACKED TO PREVENT DAMAGE DURING TRANSIT. TREES TRANSPORTED MORE THAN TEN (10) MILES OR WHICH ARE NOT PLANTED WITHIN THREE (3) DAYS OF DELIVERY TO THE SITE SHALL BE SPRAYED WITH AN ANTITRANSPIRANT PRODUCT ("WILTPRUF" OR EQUAL) TO MINIMIZE TRANSPIRATIONAL WATER LOSS
- 3. B&B, AND FIELD GROWN (FG) PLANTS SHALL BE DUG WITH FIRM, NATURAL BALLS OF SOIL OF SUFFICIENT SIZE TO ENCOMPASS THE FIBROUS AND FEEDING ROOTS OF THE PLANTS. NO PLANTS MOVED WITH A ROOT BALL SHALL BE PLANTED IF THE BALL IS CRACKED OR BROKEN. PLANTS SHALL NOT BE HANDLED BY STEMS.

CONTAINER GROWN STOCK

- ALL CONTAINER GROWN MATERIAL SHALL BE HEALTHY, VIGOROUS, WELL-ROOTED PLANTS ESTABLISHED IN THE CONTAINER IN WHICH THEY ARE SOLD. THE PLANTS SHALL HAVE TOPS WHICH ARE OF GOOD QUALITY AND ARE IN A HEALTHY GROWING CONDITION.
- 2. AN ESTABLISHED CONTAINER GROWN PLANT SHALL BE TRANSPLANTED INTO A CONTAINER AND GROWN IN THAT CONTAINER SUFFICIENTLY LONG ENOUGH FOR THE NEW FIBROUS ROOTS TO HAVE DEVELOPED SO THAT THE ROOT MASS WILL RETAIN ITS SHAPE AND HOLD TOGETHER WHEN REMOVED FROM THE CONTAINER. CONTAINER GROWN STOCK SHALL NOT BE HANDLED BY THEIR STEMS.
- 3. ROOT BOUND PLANTS ARE NOT ACCEPTABLE AND WILL BE REJECTED.

K. MATERIALS LIST

1. QUANTITIES NECESSARY TO COMPLETE THE WORK ON THE DRAWINGS SHALL BE FURNISHED BY THE CONTRACTOR. QUANTITY ESTIMATES HAVE BEEN MADE CAREFULLY, BUT THE LANDSCAPE ARCHITECT OR OWNER ASSUMES NO LIABILITY FOR OMISSIONS OR ERRORS. SHOULD A DISCREPANCY OCCUR BETWEEN THE PLANS AND THE PLANT LIST QUANTITY. THE PLANS SHALL GOVERN. ALL DIMENSIONS AND/OR SIZES SPECIFIED SHALL BE THE MINIMUM ACCEPTABLE SIZE.

FINE GRADING

- 1. FINE GRADING UNDER THIS CONTRACT SHALL CONSIST OF FINAL FINISHED GRADING OF LAWN AND PLANTING AREAS THAT HAVE BEEN DISTURBED DURING CONSTRUCTION.
- 2. THE CONTRACTOR SHALL FINE GRADE THE LAWN AND PLANTING AREAS TO BRING THE ROUGH GRADE UP TO FINAL FINISHED GRADE ALLOWING FOR THICKNESS OF SOD AND/OR MULCH DEPTH.
- 3. ALL PLANTING AREAS SHALL BE GRADED AND MAINTAINED FOR POSITIVE DRAINAGE TO SURFACE/SUBSURFACE STORM DRAIN SYSTEMS. AREAS ADJACENT TO BUILDINGS SHALL SLOPE AWAY FROM THE BUILDINGS. REFER TO CIVIL ENGINEER'S PLANS FOR FINAL GRADES. IF APPLICABLE.

PLANTING PROCEDURES

- 1. THE CONTRACTOR SHALL CLEAN WORK AND SURROUNDING AREAS OF ALL RUBBISH OR OBJECTIONABLE MATTER DAILY. ALL MORTAR CEMENT BUILDING MATERIALS AND TOXIC MATERIAL SHALL BE COMPLETELY REMOVED FROM PLANTING AREAS. THESE MATERIALS SHALL NOT BE MIXED WITH THE SOIL. SHOULD THE CONTRACTOR FIND SUCH SOIL CONDITIONS IN PLANTING AREAS WHICH WILL ADVERSELY AFFECT THE PLANT GROWTH, THE CONTRACTOR SHALL IMMEDIATELY CALL IT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE. FAILURE TO DO SO BEFORE PLANTING SHALL MAKE THE CORRECTIVE MEASURES THE RESPONSIBILITY OF THE CONTRACTOR.
- VERIFY LOCATIONS OF ALL UTILITIES. CONDUITS. SUPPLY LINES AND CABLES. INCLUDING BUT NOT LIMITED TO: ELECTRIC. GAS (LINES AND TANKS), WATER, SANITARY SEWER, STORMWATER SYSTEMS, CABLE, AND TELEPHONE. PROPERLY MAINTAIN AND PROTECT EXISTING UTILITIES. CALL COLORADO (811) TO LOCATE UTILITIES AT LEAST 48 HOURS PRIOR TO CONSTRUCTION
- 3. CONTRACTOR IS RESPONSIBLE TO REMOVE ALL EXISTING AND IMPORTED LIMEROCK AND LIMEROCK SUB-BASE FROM ALL PLANTING AREAS TO A MINIMUM DEPTH OF 36" OR TO NATIVE SOIL. CONTRACTOR IS RESPONSIBLE TO BACKFILL THESE PLANTING AREAS TO ROUGH FINISHED GRADE WITH CLEAN TOPSOIL FROM AN ON-SITE SOURCE OR AN IMPORTED SOURCE IF LIMEROCK OR OTHER ADVERSE CONDITIONS OCCUR IN PLANTED AREAS AFTER 36" DEEP EXCAVATION BY THE CONTRACTOR, AND POSITIVE DRAINAGE CAN NOT BE ACHIEVED, CONTRACTOR SHALL UTILIZE POOR DRAINAGE CONDITION
- 4. FURNISH NURSERY'S CERTIFICATE OF COMPLIANCE WITH ALL REQUIREMENTS AS SPECIFIED HEREIN. INSPECT AND SELECT PLANT MATERIALS BEFORE PLANTS ARE DUG AT NURSERY OR GROWING SITE.
- 5. COMPLY WITH APPLICABLE FEDERAL, STATE, COUNTY, AND LOCAL REGULATIONS GOVERNING LANDSCAPE MATERIALS AND WORK, UPON ARRIVAL AT THE SITE, PLANTS SHALL BE THOROUGHLY WATERED AND PROPERLY MAINTAINED UNTIL PLANTED. PLANTS STORED ONSITE SHALL NOT REMAIN UNPLANTED OR APPROPRIATELY HEALED IN FOR A PERIOD EXCEEDING TWENTY-FOUR (24) HOURS. AT ALL TIMES WORKMANLIKE METHODS CUSTOMARY IN ACCEPTED HORTICULTURAL PRACTICES AS USED IN THE TRADE SHALL BE EXERCISED.
- 6. WORK SHALL BE COORDINATED WITH OTHER TRADES TO PREVENT CONFLICTS. COORDINATE PLANTING WITH IRRIGATION WORK TO ASSURE AVAILABILITY OF WATER AND PROPER LOCATION OF IRRIGATION APPURTENANCES AND PLANTS.
- 7. ALL PLANTING OPENINGS SHALL BE EXCAVATED TO SIZE AND DEPTH IN ACCORDANCE WITH ANSI Z60.1-2014 AMERICAN STANDARD FOR NURSERY STOCK
- 8. TEST ALL TREE OPENINGS WITH WATER BEFORE PLANTING TO ASSURE PROPER DRAINAGE PERCOLATION IS AVAILABLE. NO ALLOWANCE WILL BE MADE FOR LOST PLANTS DUE TO IMPROPER DRAINAGE. IF POOR DRAINAGE EXISTS, UTILIZE "POOR DRAINAGE CONDITION" PLANTING DETAIL
- 9. TREES SHALL BE SET PLUMB AND HELD IN POSITION UNTIL THE PLANTING MIXTURE HAS BEEN FLUSHED INTO PLACE WITH A SLOW, FULL HOSE STREAM. ALL PLANTING SHALL BE PERFORMED BY PERSONNEL FAMILIAR WITH PLANTING PROCEDURES AND UNDER THE SUPERVISION OF A QUALIFIED LANDSCAPE FOREMEN.
- 10. PRIOR TO EXCAVATION OF TREE OPENINGS, AN AREA EQUAL TO TWO TIMES THE DIAMETER OF THE ROOT BALL SHALL BE ROTO-TILLED TO A DEPTH EQUAL TO THE DEPTH OF THE ROOT BALL.
- 11. EXCAVATION OF TREE OPENINGS SHALL BE PERFORMED USING EXTREME CARE TO AVOID DAMAGE TO SURFACE AND SUBSURFACE ELEMENTS SUCH AS UTILITIES OR HARDSCAPE ELEMENTS, FOOTERS AND PREPARED SUB-BASES.
- 12. IN CONTINUOUS SHRUB AND GROUND COVER BEDS, THE ROTO-TILLED PERIMETER SHOULD EXTEND TO A DISTANCE OF ONE FOOT BEYOND THE DIAMETER OF A SINGLE ROOT BALL. THE BED SHALL BE TILLED TO A DEPTH EQUAL TO THE ROOT BALL
- 13. TREE OPENINGS FOR WELL DRAINED SOILS SHALL BE DUG SO THAT THE BOTTOM OF THE ROOT BALL WILL REST ON UNDISTURBED SOIL AND THE TOP OF THE ROOT BALL WILL BE FLUSH WITH FINISH GRADE. IN POORLY DRAINED SOILS THE TREE OPENING SHALL BE DUG SO THAT THE ROOT BALL RESTS ON UNDISTURBED SOIL AND THE TOP OF THE ROOT BALL IS 1" ABOVE FINISH GRADE. PLANT PIT WALLS SHALL BE SCARIFIED PRIOR TO PLANT INSTALLATION.
- 14. TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO BUILDINGS AND BUILDING STRUCTURES WHILE INSTALLING
- 15. SOIL MIXTURE SHALL BE AS SPECIFIED IN SECTION 'E'.
- 16. TREES AND SHRUBS SHALL BE SET STRAIGHT AT AN ELEVATION THAT, AFTER SETTLEMENT, THE PLANT CROWN WILL STAND ONE (1) TO TWO (2) INCHES ABOVE GRADE. EACH PLANT SHALL BE SET IN THE CENTER OF THE PIT. SOIL MIXTURE SHALL BE BACK FILLED, THOROUGHLY TAMPED AROUND THE BALL, AND SETTLED BY WATER (AFTER TAMPING).
- 17. AMEND PINE AND OAK PLANT OPENINGS WITH ECTOMYCORRHIZAL SOIL APPLICATION PER MANUFACTURER'S

- RECOMMENDATION. ALL OTHER PLANT OPENINGS SHALL BE AMENDED WITH ENDOMYCORRHIZAL SOIL APPLICATION PER MANUFACTURER'S RECOMMENDATION. PROVIDE PRODUCT INFORMATION SUBMITTAL PRIOR TO INOCULATION.
- 18. FILL HOLE WITH SOIL MIXTURE, MAKING CERTAIN ALL SOIL IS SATURATED. TO DO THIS, FILL HOLE WITH WATER AND ALLOW TO SOAK MINIMUM TWENTY (20) MINUTES, STIRRING IF NECESSARY TO GET SOIL THOROUGHLY WET. PACK LIGHTLY WITH FEET, ADD MORE WET SOIL MIXTURE. DO NOT COVER TOP OF BALL WITH SOIL MIXTURE.
- 19. ALL BURLAP, ROPE, WIRES, BASKETS, ETC.., SHALL BE REMOVED FROM THE SIDES AND TOPS OF BALLS, BUT NO BURLAP SHALL BE PULLED FROM UNDERNEATH
- 20. TREES SHALL BE PRUNED, IN ACCORDANCE WITH ANSI A-300, TO PRESERVE THE NATURAL CHARACTER OF THE PLANT. ALL SOFT WOOD OR SUCKER GROWTH AND ALL BROKEN OR BADLY DAMAGED BRANCHES SHALL BE REMOVED WITH A CLEAN CUT. ALL PRUNING TO BE PERFORMED BY CERTIFIED ARBORIST.
- 21. SHRUBS AND GROUND COVER PLANTS SHALL BE EVENLY SPACED IN ACCORDANCE WITH THE DRAWINGS AND AS INDICATED ON THE PLANT LIST. MATERIALS INSTALLED SHALL MEET MINIMUM SPECIMEN REQUIREMENTS OR QUANTITIES SHOWN ON PLANS, WHICHEVER IS GREATER. CULTIVATE ALL PLANTING AREAS TO A MINIMUM DEPTH OF 6", REMOVE AND DISPOSE ALL DEBRIS. MIX TOP 4" THE PLANTING SOIL MIXTURE AS SPECIFIED IN SECTION E. THOROUGHLY WATER ALL PLANTS AFTER
- 22. TREE GUYING AND BRACING SHALL BE INSTALLED BY THE CONTRACTOR IN ACCORDANCE WITH THE PLANS TO INSURE STABILITY AND MAINTAIN TREES IN AN UPRIGHT POSITION. IF THE CONTRACTOR AND OWNER DECIDE TO WAIVE THE TREE GUYING AND BRACING. THE OWNER SHALL NOTIFY THE PROJECT LANDSCAPE ARCHITECT IN WRITING AND AGREE TO INDEMNIFY AND HOLD HARMLESS THE PROJECT LANDSCAPE ARCHITECT IN THE EVENT UNSUPPORTED TREES PLANTED UNDER THIS CONTRACT FALL AND DAMAGE PERSON OR PROPERTY.
- 23. ALL PLANT BEDS SHALL BE KEPT FREE OF NOXIOUS WEEDS UNTIL FINAL ACCEPTANCE OF WORK. IF DIRECTED BY THE OWNER, "ROUND-UP" SHALL BE APPLIED FOR WEED CONTROL BY QUALIFIED PERSONNEL TO ALL PLANTING AREAS IN SPOT APPLICATIONS PER MANUFACTURER'S RECOMMENDATIONS. PRIOR TO FINAL INSPECTION, TREAT ALL PLANTING BEDS WITH AN APPROVED PRE-EMERGENT HERBICIDE AT AN APPLICATION RATE RECOMMENDED BY THE MANUFACTURER. (AS ALLOWED BY JURISDICTIONAL AUTHORITY)

- THE WORK CONSISTS OF LAWN BED PREPARATION, SOIL PREPARATION, AND SODDING COMPLETE. IN STRICT ACCORDANCE WITH THE SPECIFICATIONS AND THE APPLICABLE DRAWINGS TO PRODUCE A TURF GRASS LAWN ACCEPTABLE TO THE
- 2. ALL AREAS THAT ARE TO BE SODDED SHALL BE CLEARED OF ANY ROUGH GRASS, WEEDS, AND DEBRIS BY MEANS OF A SOD CUTTER TO A DEPTH OF THREE (3) INCHES, AND THE GROUND BROUGHT TO AN EVEN GRADE. THE ENTIRE SURFACE SHALL BE ROLLED WITH A ROLLER WEIGHING NOT MORE THAN ONE-HUNDRED (100) POUNDS PER FOOT OF WIDTH. DURING THE ROLLING, ALL DEPRESSIONS CAUSED BY SETTLEMENT SHALL BE FILLED WITH ADDITIONAL SOIL, AND THE SURFACE SHALL BE REGRADED AND ROLLED UNTIL PRESENTING A SMOOTH AND EVEN FINISH TO THE REQUIRED GRADE.
- 3. PREPARE LOOSE BED FOUR (4) INCHES DEEP. HAND RAKE UNTIL ALL BUMPS AND DEPRESSIONS ARE REMOVED. WET PREPARED AREA THOROUGHLY.

SODDING

- a. THE CONTRACTOR SHALL SOD ALL AREAS THAT ARE NOT PAVED OR PLANTED AS DESIGNATED ON THE DRAWINGS WITHIN THE CONTRACT LIMITS, UNLESS SPECIFICALLY NOTED OTHERWISE.
- b. SOD PANELS SHALL BE LAID TIGHTLY TOGETHER SO AS TO MAKE A SOLID SODDED LAWN AREA. SOD SHALL BE LAID UNIFORMLY AGAINST THE EDGES OF ALL CURBS AND OTHER HARDSCAPE ELEMENTS. PAVED AND PLANTED AREAS. ADJACENT TO BUILDINGS, A 24 INCH STONE MULCH STRIP SHALL BE PROVIDED. IMMEDIATELY FOLLOWING SOD LAYING, THE LAWN AREAS SHALL BE ROLLED WITH A LAWN ROLLER CUSTOMARILY USED FOR SUCH PURPOSES, AND THEN THOROUGHLY IRRIGATED. IF. IN THE OPINION OF THE OWNER. TOP-DRESSING IS NECESSARY AFTER ROLLING TO FILL THE VOIDS BETWEEN THE SOD PANELS AND TO EVEN OUT INCONSISTENCIES IN THE SOD, CLEAN SAND, AS APPROVED BY THE OWNER'S REPRESENTATIVE, SHALL BE UNIFORMLY SPREAD OVER THE ENTIRE SURFACE OF THE SOD AND THOROUGHLY WATERED IN. FERTILIZE INSTALLED SOD AS ALLOWED BY PROPERTY'S JURISDICTIONAL AUTHORITY.
- 5. DURING DELIVERY, PRIOR TO, AND DURING THE PLANTING OF THE LAWN AREAS, THE SOD PANELS SHALL AT ALL TIMES BE PROTECTED FROM EXCESSIVE DRYING AND UNNECESSARY EXPOSURE OF THE ROOTS TO THE SUN. ALL SOD SHALL BE STACKED SO AS NOT TO BE DAMAGED BY SWEATING OR EXCESSIVE HEAT AND MOISTURE.

6 LAWN MAINTENANCE

- a. WITHIN THE CONTRACT LIMITS, THE CONTRACTOR SHALL PRODUCE A DENSE, WELL ESTABLISHED LAWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR AND RE-SODDING OF ALL ERODED, SUNKEN OR BARE SPOTS (LARGER THAN 12"X12") UNTIL CERTIFICATION OF ACCEPTANCE BY THE OWNER'S REPRESENTATIVE. REPAIRED SODDING SHALL BE ACCOMPLISHED AS IN THE ORIGINAL WORK. INCLUDING REGRADING IF NECESSARY
- b. CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING SOD/LAWN UNTIL ACCEPTANCE BY THE OWNER'S REPRESENTATIVE. PRIOR TO AND UPON ACCEPTANCE, CONTRACTOR TO PROVIDE WATERING/IRRIGATION SCHEDULE TO OWNER. OBSERVE ALL APPLICABLE WATERING RESTRICTIONS AS SET FORTH BY THE PROPERTY'S JURISDICTIONAL AUTHORITY.

a. CONTRACTOR SHALL INSTALL $4"X_8^{"}$ " ROLLED TOP STEEL EDGING BETWEEN ALL SOD/SEED AREAS AND PLANTING BEDS.

P. CLEANUP

1. UPON COMPLETION OF ALL PLANTING WORK AND BEFORE FINAL ACCEPTANCE, THE CONTRACTOR SHALL REMOVE ALL MATERIAL, EQUIPMENT, AND DEBRIS RESULTING FROM CONTRACTORS WORK. ALL PAVED AREAS SHALL BE CLEANED AND THE SITE LEFT IN A NEAT AND ACCEPTABLE CONDITION AS APPROVED BY THE OWNER'S REPRESENTATIVE.

PLANT MATERIAL MAINTENANCE

ALL PLANTS AND PLANTING INCLUDED UNDER THIS CONTRACT SHALL BE MAINTAINED BY WATERING, CULTIVATING, SPRAYING, PRUNING, AND ALL OTHER OPERATIONS (SUCH AS RE-STAKING OR REPAIRING GUY SUPPORTS) NECESSARY TO INSURE A HEALTHY PLANT CONDITION BY THE CONTRACTOR UNTIL CERTIFICATION OF ACCEPTANCE BY THE OWNER'S

FINAL INSPECTION AND ACCEPTANCE OF WORK

1. FINAL INSPECTION AT THE END OF THE WARRANTY PERIOD SHALL BE ON PLANTING, CONSTRUCTION AND ALL OTHER INCIDENTAL WORK PERTAINING TO THIS CONTRACT. ANY REPLACEMENT AT THIS TIME SHALL BE SUBJECT TO THE SAME ONE (1) YEAR WARRANTY (OR AS SPECIFIED BY THE LANDSCAPE ARCHITECT OR OWNER IN WRITING) BEGINNING WITH THE TIME OF REPLACEMENT AND ENDING WITH THE SAME INSPECTION AND ACCEPTANCE HEREIN DESCRIBED.

- 1. THE LIFE AND SATISFACTORY CONDITION OF ALL PLANT MATERIAL INSTALLED (INCLUDING SOD) BY THE LANDSCAPE CONTRACTOR SHALL BE WARRANTED BY THE CONTRACTOR FOR A MINIMUM OF ONE (1) CALENDAR YEAR COMMENCING AT THE TIME OF CERTIFICATION OF ACCEPTANCE BY THE OWNER'S REPRESENTATIVE.
- 2. ANY PLANT NOT FOUND IN A HEALTHY GROWING CONDITION AT THE END OF THE WARRANTY PERIOD SHALL BE REMOVED FROM THE SITE AND REPLACED AS SOON AS WEATHER CONDITIONS PERMIT. ALL REPLACEMENTS SHALL BE PLANTS OF THE SAME KIND AND SIZE AS SPECIFIED IN THE PLANT LIST. THEY SHALL BE FURNISHED PLANTED AND MULCHED AS SPECIFIED AT NO ADDITIONAL COST TO THE OWNER.
- 3. IN THE EVENT THE OWNER DOES NOT CONTRACT WITH THE CONTRACTOR FOR LANDSCAPE AND IRRIGATION MAINTENANCE, THE CONTRACTOR SHOULD VISIT THE PROJECT SITE PERIODICALLY DURING THE ONE (1) YEAR WARRANTY PERIOD TO EVALUATE MAINTENANCE PROCEDURES BEING PERFORMED BY THE OWNER. CONTRACTOR SHALL NOTIFY THE OWNER IN WRITING OF MAINTENANCE PROCEDURES OR CONDITIONS WHICH THREATEN VIGOROUS AND HEALTHY PLANT GROWTH.

PARKING LOT ISLAND NOTE

THE SOIL OF ANY PLANTER WITHIN THE PARKING LOT SHALL BE STRUCTURALLY RENOVATED (TILLED) OR REMOVED TO A DEPTH OF THIRTY INCHES (30") AND REPLACED WITH AN ACCEPTABLE GROWING MEDIUM FOR THE SPECIES INDICATED FOR INSTALLATION.

MAINTENANCE

- 1. LANDSCAPE IMPROVEMENTS AND MAINTENANCE SHALL BE THE RESPONSIBILITY OF THE OWNER, AND/ OR THEIR ASSIGNS.
- 2. ALL STREET TREES AND STREETSCAPE IMPROVEMENTS LOCATED IN THE R.O.W. WILL BE MAINTAINED BY THE ABUTTING PROPERTY OWNER

PRELIMINARY OR REVIEW ONL' CONSTRUCTION **Kimley **Horn**



CALL UTILITY NOTIFICATION ENTER OF COLORADO -BUSINESS DAYS IN ADVANC YOU DIG, GRADE, OR EXCAVAT HE MARKING OF UNDERGROUND MEMBER UTILITIES

timley-Horn and Associates, I PROJECT NO. 196489000 SHEET

PCD FILE NO. COM2346

1. TOPSOIL TO CONSIST OF DARK, LIGHT LOAM SOIL FREE OF ROCKS, ROOTS, AND FOREIGN MATERIALS. 2. THE FERTILIZER APPLICATION SHOULD BE DELAYED IF PLANTING DOES NOT OCCUR WITHIN 2-3 DAYS

OF FERTILIZING 3. COMPOST TO CONSIST OF 1 YEAR OLD ORGANIC MATERIAL AND SHOULD NOT INCLUDE CHICKEN

4. FROZEN MATERIALS OR MATERIALS GREATER THAN 1" DIA. SHOULD BE REMOVED.

5. REFER TO SPECS FOR COMPLETE SOIL PREPARATION REQUIREMENTS.

6. THE ROTO-TILLED PERIMETER SHOULD EXTEND TO A DISTANCE OF 1 FOOT BEYOND THE DIAMETER OF A SINGLE ROOT BALL.

ELEVATION

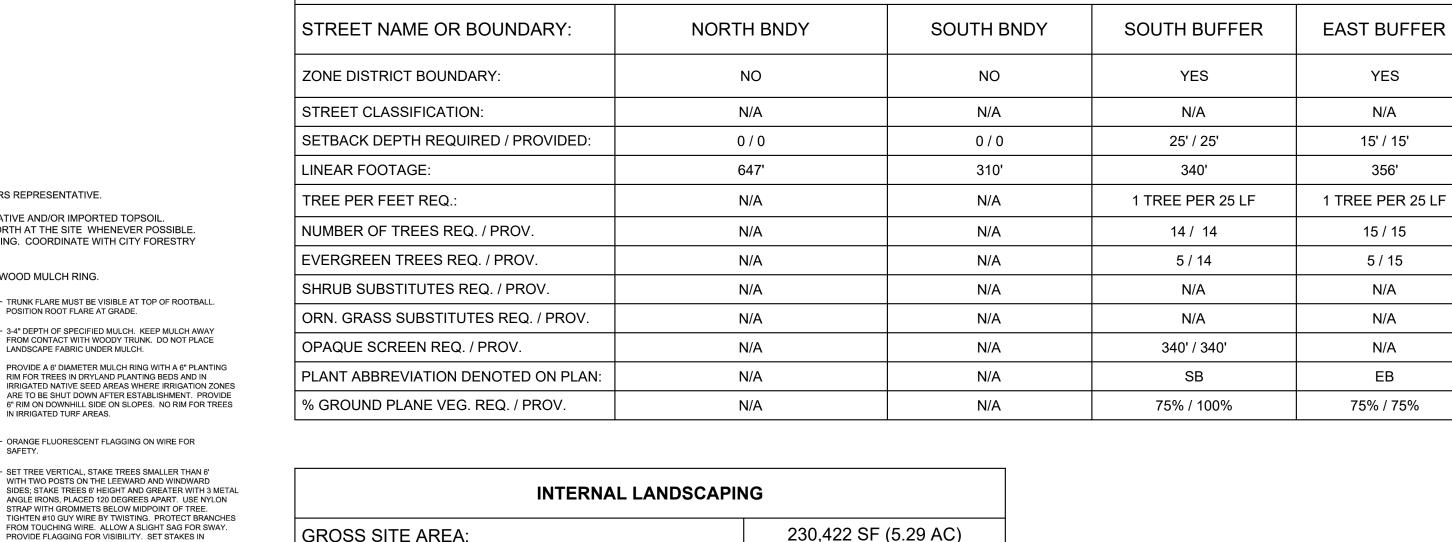
(1) 6'H "PERIMETER PLUS" CONSTRUCTION FENCE BY CONWED PLASTICS OR OWNER'S REPRESENTATIVE APPROVED EQUAL. SUBMIT PRODUCT INFORMATION FOR APPROVAL PRIOR TO INSTALLATION. 2) 8' TALL METAL "T" POSTS OR 2" x 2" X 8' PRESSURE TREATED WOOD POSTS WITH 24"

BURIAL BELOW GRADE.

196-489-000-01

INSTALLATION NOTES:

- A. POST SELECTION SHOULD BE BASED ON EXPECTED STRENGTH NEEDS AND THE LENGTH OF TIME FENCE WILL BE IN PLACE. FLEXIBLE FIBERGLASS ROD POSTS ARE RECOMMENDED FOR PARKS, ATHLETIC EVENTS AND CROWD CONTROL INSTALLATIONS. METAL "T" POSTS OR TREATED WOOD POSTS ARE TYPICALLY USED FOR CONSTRUCTION AND OTHER APPLICATIONS.
- B. POSTS SHOULD BE DRIVEN INTO THE GROUND TO A DEPTH OF 1/3 OF THE HEIGHT OF THE POST. FOR EXAMPLE, A 6' POST SHOULD BE SET AT LEAST 2' INTO THE GROUND.
- C. SPACE POSTS EVERY 6' (MIN.) TO 8' (MAX.).
- D. SECURE FENCING TO POST WITH NYLON CABLE TIES (AVAILABLE FROM CONWED PLASTICS). WOOD STRIPS MAY BE ALSO BE USED TO PROVIDE ADDITIONAL SUPPORT AND PROTECTION BETWEEN TIES AND POSTS.



LANDSCAPE SETBACKS AND BUFFERS

INTERNAL LANDSCAPING				
GROSS SITE AREA:	230,422 SF (5.29 AC)			
PERCENT MINIMUM INTERNAL AREA:	5%			
INTERNAL LANDSCAPE AREA REQ. / PROV.	11,521 SF / 50,413 SF			
TREE PER FEET REQ.	1 TREE PER 500 SF			
INTERNAL TREES REQ. / PROV.	23 / 28			
SHRUB SUBSTITUTES REQ. / PROV.	N/A			
ORN. GRASS SUBSTITUTES REQ. / PROV.	N/A			
PLANT ABBREVIATION DENOTED ON PLAN:	IN			
% GROUND PLANE VEG. REQ. / PROV.	75% / 100%			

Table B. El Paso County All-Purpose Low Grow Mix for Upland and Transition Areas

Disclaimer: These planting details are for City review and approval process and shall not be used for construction or bidding purposes.

1. DO NOT REMOVE OR CUT LEADER.

4. KEEP PLANTS MOIST AND SHADED UNTIL PLANTING.

8. ALL TREES TO BE DEEP WATERED AT TIME OF PLANTING.

2 PRUNE ONLY DEAD OR BROKEN BRANCHES IMMEDIATELY PRIOR TO PLANTING.

FOR CURRENT INSECT AND DISEASE RECOMMENDATIONS PRIOR TO PLANTING.

--- MIN 2 X ROOTBALL -----

EVERGREEN TREE PLANTING

3. DO NOT REMOVE ANY DOUBLE LEADER, UNLESS OTHERWISE DIRECTED BY OWNERS REPRESENTATIVE.

9. ALL TREES LOCATED IN ROCK/COBBLE BEDS SHALL HAVE A 36 INCH DIAMETER WOOD MULCH RING.

5. AMENDED BACKFILL SHALL BE 1/3 COMPOST (PREFERABLY CLASSIFIED) AND 2/3 NATIVE AND/OR IMPORTED TOPSOIL. 6. MARK THE NORTH SIDE OF TREE IN THE NURSERY, AND ROTATE TREE TO FACE NORTH AT THE SITE WHENEVER POSSIBLE.
7. PINE AND SPRUCE TREES TO BE SPRAYED FOR IPS BARK BEETLE PRIOR TO PLANTING. COORDINATE WITH CITY FORESTRY

- TRUNK FLARE MUST BE VISIBLE AT TOP OF ROOTBALL. POSITION ROOT FLARE AT GRADE.

- 3-4" DEPTH OF SPECIFIED MULCH. KEEP MULCH AWAY FROM CONTACT WITH WOODY TRUNK. DO NOT PLACE

RIM FOR TREES IN DRYLAND PLANTING BEDS AND IN

ORANGE FLUORESCENT FLAGGING ON WIRE FOR

SET TREE VERTICAL, STAKE TREES SMALLER THAN 6' WITH TWO POSTS ON THE LEEWARD AND WINDWARD

PROVIDE FLAGGING FOR VISIBILITY. SET STAKES IN MINIMUM 18" FIRM SOIL. REMOVE STAKES WITHIN 12-18 MONTHS OF PLANTING.

- AFTER TREE IS POSITIONED, REMOVE ALL TWINE, ROPE, PLASTIC, WIRE, BURLAP, AND RUBBER.

CARIFY SIDES OF PLANTING PIT. BACKFILL WITH AMENDED

SOIL MIX. ROOTBALL SHALL REST ON FIRM, UNDISTURBED SOIL.

Rev: 6-5-2023

196-489-000-12

PROVIDE A 6' DIAMETER MULCH RING WITH A 6" PLANTING

LANDSCAPE FABRIC UNDER MULCH.

IN IRRIGATED TURF AREAS.

	Scientific	Growth	% of	Pounds PLSIrrigatedbroadcastIrrigated	Pounds PLSnon-irrigated broadcastnon-irrigated	•non-irrigated drilled
Common Name	Name	Season/Form	Mix	hydroseeded	hydroseeded • irrigated drilled	
				(80 seeds/sq ft)	(40 seeds/sq ft)	(20 seeds/sq ft)
Buffalograss	Buchloe dactyloides	Warm, sod	25	9.6	4.8	2.4
Blue Grama	Bouteloua gracilis	Warm, bunch	20	10.8	5.4	2.7
Sideoats Grama	Bouteloua curtipendula	Warm, bunch	29	5.6	2.8	1.4
Green Needlegrass	Nassella viridula	Cool, bunch	5	3.2	1.6	0.8
Western Wheatgrass	Pascopyrum smithii	Cool, sod	20	12.0	6.0	3.0
Sand Dropseed	Sporobolus cryptandrus	Warm, bunch	1	0.8	0.4	0.2
		Seed rate (lbs PLS	S/acre)	42.0	21.0	10.3

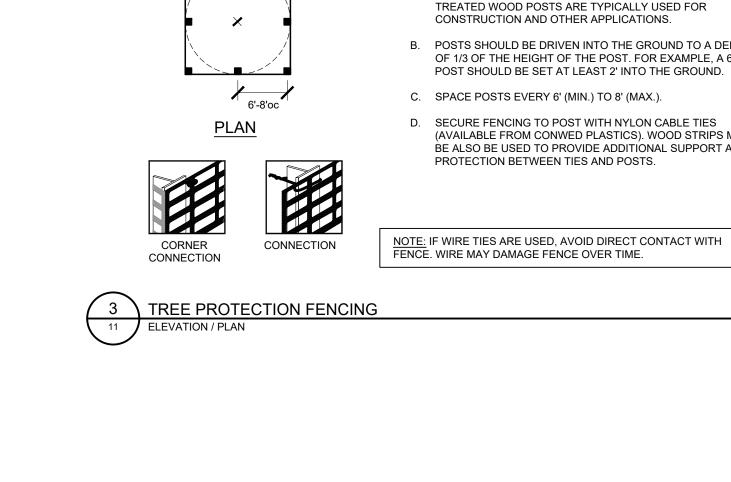
Know what's **below.**Call before you dig.

CALL UTILITY NOTIFICATION CENTER OF COLORADO CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES

PRELIMINARY FOR REVIEW ONLY NOT FOR CONSTRUCTION **Kimley** Whorn Kimley-Horn and Associates, Inc

PROJECT NO. 196489000 SHEET

PCD FILE NO. COM2346



200 DESIGNED BY: EJO DRAWN BY: RES CHECKED BY: EJO DATE: 3/7/2024

WEST BNDY

NO

N/A

0/0

355'

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

YES

N/A

15' / 15'

356'

15 / 15

5 / 15

N/A

N/A

N/A

EΒ

75% / 75%

BARBARICK WASTE TRANSFER STATION
EL PASO COUNTY, COLORADO
CONSTRUCTION DOCUMENTS
LANDSCAPE DETAILS

v2_Construction Drawings comments.pdf Markup Summary

Carlos (4)



Subject: Callout

Page Label: [1] 2 SITE PLAN

Author: Carlos

Date: 3/25/2024 4:04:52 PM

Status: Color: Layer: Space: Show proposed storm pipe and label inlet.



Subject: Callout

Page Label: [9] C3.1 STORM PLAN & PROFILE

Author: Carlos

Date: 3/25/2024 5:05:10 PM

Status: Color: Layer: Space: Please add the following note to the CD where applicable

" Add water tight joint when 100 YR HGL shows

pipe fully inundated"



Subject: Callout

Page Label: [10] C3.2 STORM PLAN & PROFILE

Author: Carlos

Date: 3/25/2024 5:05:18 PM

Status: Color: Layer: Space: Please add the following note to the CD where applicable

" Add water tight joint when 100 YR HGL shows

pipe fully inundated"



Subject: Callout

Page Label: [11] C3.3 STORM PLAN & PROFILE

Author: Carlos

Date: 3/25/2024 5:05:43 PM

Status: Color: Layer: Space: Please add the following note to the CD where applicable

"Add water tight joint when 100 YR HGL shows

pipe fully inundated"

Glenn Reese - EPC Stormwater (2)



Subject: SW - Textbox with Arrow Page Label: [18] C6.2 POND DETAILS Author: Glenn Reese - EPC Stormwater

Date: 3/25/2024 10:49:59 AM

Status: Color: ■ Layer: Space: Add a note that states that the orifice plate requires a gasket or sealant to ensure a watertight seal with outlet structure.



Subject: SW - Textbox with Arrow Page Label: [18] C6.2 POND DETAILS Author: Glenn Reese - EPC Stormwater

Date: 3/25/2024 10:49:59 AM

Status: Color: ■ Layer: Space: Specify thickness of steel plate.



Lot 4, Barbarick Subdivision El Paso County, Colorado

Prepared for:

Vollmer Road Partners, LLLP. 6035 Erin Parkway Drive, Suite 101 Colorado Springs, CO 80918 Contact: Richard Graham

Prepared by:

Kimley-Horn and Associates, Inc. 2 North Nevada Avenue, Suite 900 Colorado Springs, Colorado 80903 (719) 453-0180 Contact: Eric Gunderson, P.E.

Project #: 196489000

Prepared: March 6, 2024

PCD File Number: COM2346

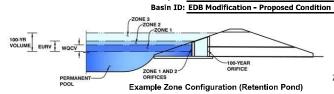
Kimley» Horn



DETENTION BASIN OUTLET STRUCTURE DESIGN

MHFD-Detention, Version 4.06 (July 2022)

Project: Barbarick Transfer Station



	Estimateu	Estimateu	
	Stage (ft)	Volume (ac-ft)	Outlet Type
Zone 1 (WQCV)	2.07	0.344	Orifice Plate
Zone 2 (EURV)	4.08	0.903	Orifice Plate
one 3 (100-year)	4.94	0.511	Weir&Pipe (Restrict)
·•	Total (all zones)	1,758	

User Input: Orifice at Underdrain Outlet (typically used to drain WQCV in a Filtration BMP)

Underdrain Orifice Invert Depth = N/A ft (distance below the filtration media surface) Underdrain Orifice Diameter : N/A inches

	Calculated Parameters for Underdrain				
Underdrain Orifice Area =	N/A	ft ²			
Underdrain Orifice Centroid =	N/A	feet			

User Input: Orifice Plate with one or more orifices or Elliptical Slot Weir (typically used to drain WQCV and/or EURV in a sedimentation BMP) Centroid of Lowest Orifice = 0.00 ft (relative to basin bottom at Stage = 0 ft)

Depth at top of Zone using Orifice Plate = 4.10 ft (relative to basin bottom at Stage = 0 ft) Orifice Plate: Orifice Vertical Spacing = N/A inches Orifice Plate: Orifice Area per Row = N/A sq. inches

i	Calculated Paramet	ers for Plate
WQ Orifice Area per Row =	N/A	ft ²
Elliptical Half-Width =	N/A	feet
Elliptical Slot Centroid =	N/A	feet
Elliptical Slot Area =	N/A	ft ²

User Input: Stage and Total Area of Each Orifice Row (numbered from lowest to highest)

	Row 1 (required)	Row 2 (optional)	Row 3 (optional)	Row 4 (optional)	Row 5 (optional)	Row 6 (optional)	Row 7 (optional)	Row 8 (optional)
Stage of Orifice Centroid (ft)	0.00	2.00	2.75					
Orifice Area (sq. inches)	2.75	3.00	1.00					

	Row 9 (optional)	Row 10 (optional)	Row 11 (optional)	Row 12 (optional)	Row 13 (optional)	Row 14 (optional)	Row 15 (optional)	Row 16 (optional)
Stage of Orifice Centroid (ft)								
Orifice Area (sq. inches)								

User Input: Vertical Orifice (Circular or Rectangular)

	Not Selected	Not Selected
Invert of Vertical Orifice =	N/A	N/A
Depth at top of Zone using Vertical Orifice =	N/A	N/A
Vertical Orifice Diameter =	N/A	N/A
•		

		Calculated Paramet	ers for Vertical Orific
		Not Selected	Not Selected
t (relative to basin bottom at Stage = 0 ft)	Vertical Orifice Area =	N/A	N/A
t (relative to basin bottom at Stage = 0 ft)	Vertical Orifice Centroid =	N/A	N/A

User Input: Overflow Weir (Dropbox with Flat or S	Calculated Paramete	ers for Overflow Wei			
	Zone 3 Weir	Not Selected		Zone 3 Weir	Not Selected
Overflow Weir Front Edge Height, Ho =	4.10	N/A	ft (relative to basin bottom at Stage = 0 ft) $$ Height of Grate Upper Edge, $H_t =$	4.10	N/A
Overflow Weir Front Edge Length =	12.00	N/A	feet Overflow Weir Slope Length =	4.00	N/A
Overflow Weir Grate Slope =	0.00	N/A	H:V Grate Open Area / 100-yr Orifice Area =	47.80	N/A
Horiz, Length of Weir Sides =	4.00	N/A	feet Overflow Grate Open Area w/o Debris =	33,41	N/A
Overflow Grate Type =	Type C Grate	N/A	Overflow Grate Open Area w/ Debris =	16.70	N/A
Debris Clogging % =	50%	N/A	%		

<u>User Input: Outlet Pipe w/ Flow Restriction Plate (Circular Orifice, Restrictor Plate, or Rectangular Orifice)</u>

	Zone 3 Restrictor	Not Selected	
Depth to Invert of Outlet Pipe =	1.02	N/A	
Outlet Pipe Diameter =	30.00	N/A	
ictor Plate Height Above Pipe Invert =	6.00		
•		labal	

Selected			Zone 3 Restrictor	Not Selected
N/A	ft (distance below basin bottom at Stage = 0	Oft) Outlet Orifice Area =	0.70	N/A
N/A	inches	Outlet Orifice Centroid =	0.30	N/A
	inches Half-Cent	ral Angle of Restrictor Plate on Pipe =	0.93	N/A
label o	outlet pipe inv. on CDs			

User Input: Emergency Spillway (Rectangular or Trapezoidal)

Restri

Spillway Invert Stage=	4.53	ft (relativ
Spillway Crest Length =	33.00	feet
Spillway End Slopes =	4.00	H:V
Freeboard above Max Water Surface =	1.00	feet

KH Response: Outlet pipe inv is labeled on the CDs. See overall storm plan

	_	Calculated Paramet	ers for Spillwa
1	way Design Flow Depth=	0.53	feet
	e at Top of Freeboard =	6.06	feet
١	a at Top of Freeboard =	0.76	acres
	ne at Top of Freeboard =	2.52	acre-ft
П			

Calculated Parameters for Outlet Pipe w/ Flow Restriction Plat

Routed Hydrograph Results	The user can overr	de the default CLIHI	P hydrographs and r	unoff volumes by ente	erina new values in	the Inflow Hydrodi	anhs table (Columns	W through AF)
· · · · · · · · · · · · · · · · · · ·								
Design Storm Return Period =		EURV	2 Year	5 Year	10 Year	25 Year	50 Year	100 Year
One-Hour Rainfall Depth (in) =	N/A	N/A	1.19	1.50	1.75	2.00	2.25	2.52
CUHP Runoff Volume (acre-ft) =	0.344	1.247	0.865	1.116	1.320	1.551	1.770	2.018
Inflow Hydrograph Volume (acre-ft) =	N/A	N/A	0.865	1.116	1.320	1.551	1.770	2.018
CUHP Predevelopment Peak Q (cfs) =	N/A	N/A	0.1	0.2	0.3	4.0	6.4	9.5
OPTIONAL Override Predevelopment Peak Q (cfs) =	N/A	N/A						
Predevelopment Unit Peak Flow, q (cfs/acre) =	N/A	N/A	0.01	0.02	0.03	0.38	0.60	0.89
Peak Inflow Q (cfs) =	N/A	N/A	17.8	23.0	27.1	32.6	37.2	41.3
Peak Outflow Q (cfs) =	0.2	0.4	0.3	0.3	0.4	3.0	5.7	7.7
Ratio Peak Outflow to Predevelopment Q =	N/A	N/A	N/A	1.5	1.4	0.7	0.9	0.8
Structure Controlling Flow =	Plate	KH Response:			verflow Weir	Overflow Weir 1	Overflow Weir 1/	Spillway
Max Velocity through Grate 1 (fps) =	N/A	NH Ke	sponse:		0.0	0.1	0.2	0.2
Max Velocity through Grate 2 (fps) =	N/A		The UD-Detention			N/A	N/A	N/A
Time to Drain 97% of Inflow Volume (hours) =	39		Title op-petention			76	7 5	74
Time to Drain 99% of Inflow Volume (hours) =	41	spread	spreadsheet uses the			82	81	81
Maximum Ponding Depth (ft) =	2.07		• •			4.24	4.32	4.53
Area at Maximum Ponding Depth (acres) =	0.33	empirio	empirical equation for			0.57	0.58	0.60
Maximum Volume Stored (acre-ft) =	0.347		calculating WQCV based off			1.333	1.384	1.502
		caicuia	iting vvQC	v based of	T			

impervious percentages and

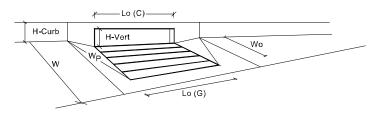
areas, not rational

calculations.

Per pages 7 and 60 above, these inflow should be 41.26 and 76.63cfs, right?

Inlet P1

INLET IN A SUMP OR SAG LOCATION MHFD-Inlet, Version 5.03 (August 2023)

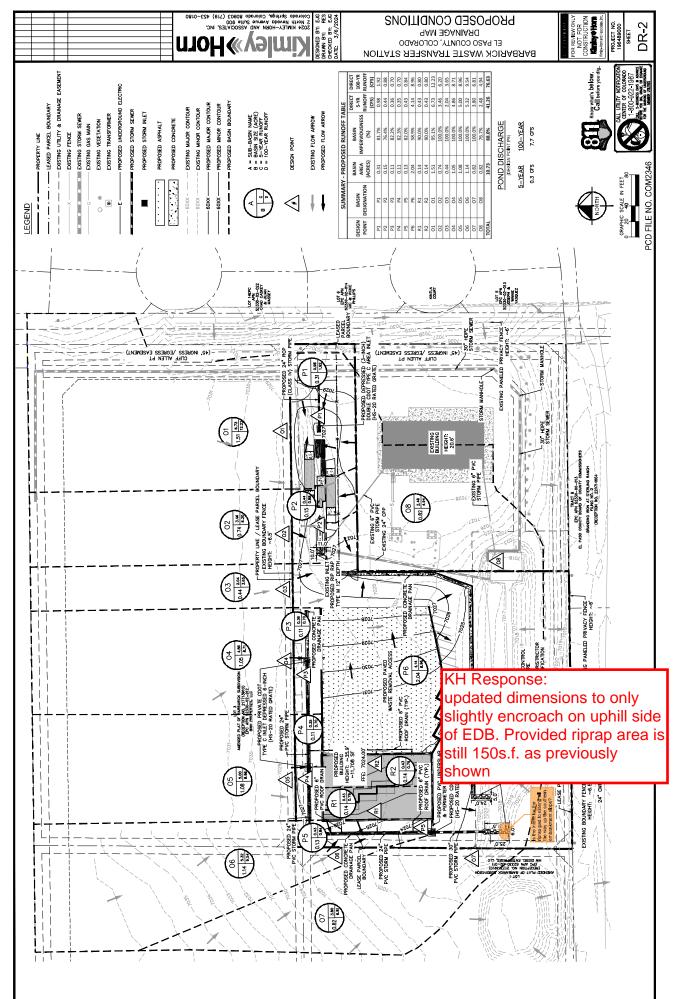


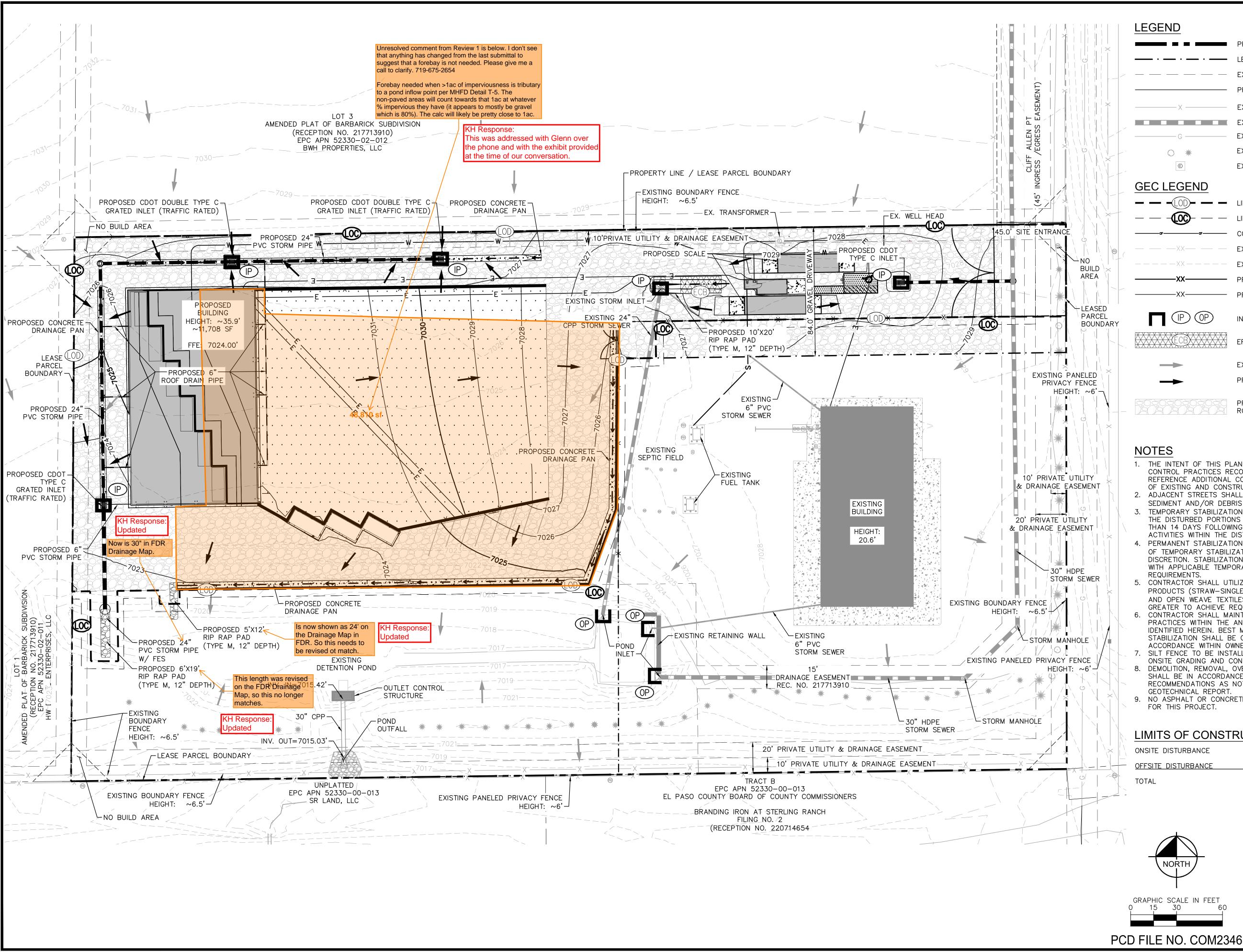
Design Information (Input) CDOT Type C Grate		MINOR	MAJOR	
Type of Injet	Type =		oe C Grate	
Local Depression (additional to continuous gutter depression 'a' from above)	a _{local} =	3.00	3.00	inches
Number of Unit Inlets (Grate or Curb Opening)	No =	2	2	
Water Depth at Flowline (outside of local depression)	Ponding Depth =	9.5	9.5	inches
Grate Information	_	MINOR	MAJOR	Override Depth
Length of a Unit Grate	$L_o(G) =$	2,92	2,92	feet
Width of a Unit Grate	W _o =	2.92	2.92	feet
Open Area Ratio for a Grate (typical values 0.15-0.90)	A _{ratio} =	0.70	0.70	
Clogging Factor for a Single Grate (typical value 0.50 - 0.70)	$C_f(G) =$	0.50	0.50	
Grate Weir Coefficient (typical value 2.15 - 3.60)	$C_w(G) =$	3.00	3.00	
Grate Orifice Coefficient (typical value 0.60 - 0.80)	C ₀ (G) =	0.70	0.70	
Curb Opening Information	_	MINOR	MAJOR	
Length of a Unit Curb Opening	$L_{o}(C) =$	N/A	N/A	feet
Height of Vertical Curb Opening in Inches	H _{vert} =	N/A	N/A	inches
Height of Curb Orifice Throat in Inches	H _{throat} =	N/A	N/A	inches
Angle of Throat	Theta =	N/A	N/A	degrees
Side Width for Depression Pan (typically the gutter width of 2 feet)	$W_p =$	N/A	N/A	feet
Clogging Factor for a Single Curb Opening (typical value 0.10)	$C_f(C) =$	N/A	N/A	
Curb Opening Weir Coefficient (typical value 2.3-3.7)	C _w (C) =	N/A	N/A	
Curb Opening Orifice Coefficient (typical value 0.60 - 0.70)	$C_{o}(C) =$	N/A	N/A	
Low Head Performance Reduction (Calculated)		MINOR	MAJOR	
Depth for Grate Midwidth	d _{Grate} =	0.80	0.80	ft
Depth for Curb Opening Weir Equation	d _{Curb} =	N/A	N/A	ft
Grated Inlet Performance Reduction Factor for Long Inlets	RF _{Grate} =	N/A	N/A	
Curb Opening Performance Reduction Factor for Long Inlets	RF _{Curb} =	N/A	N/A	
Combination Inlet Performance Reduction Factor for Long Inlets	RF _{Combination} =	N/A	N/A	
		MINOR	MAJOR	
Total Inlet Interception Capacity (assumes cloqued condition)	Q ₂ =	13.1	13.1	cfs
Inlet Capacity IS GOOD for Minor and Major Storms (>Q Peak)	Q PEAK REQUIRED =	5.3	12.0	cfs

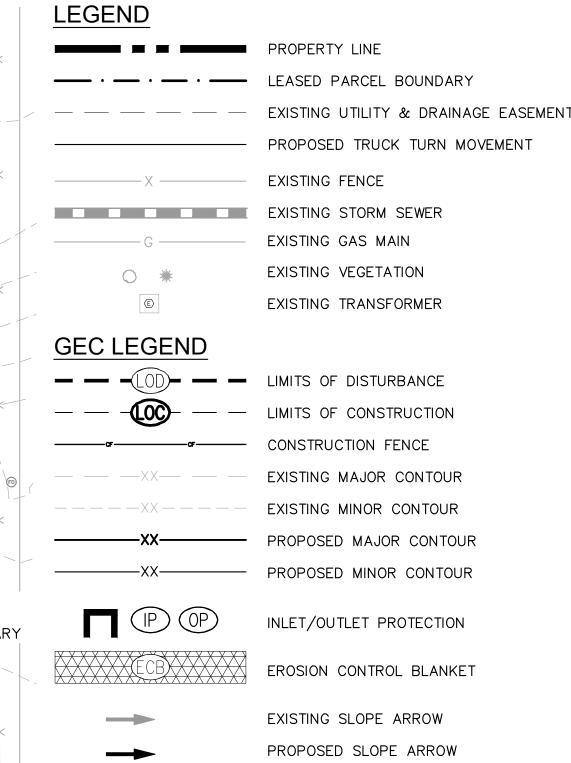
Recommend using the MHFD Inlet a swale spreadsheet to avoid the warning error.

KH Response:

We feel that although this spreadsheet gives an error for the proposed dimension, warning that this is non standard, that this spreadsheet better models the inlet. I've left these inlet calcs, is this acceptable with EPC?







1. THE INTENT OF THIS PLAN IS TO IDENTIFY THE EROSION CONTROL PRACTICES RECOMMENDED. THE CONTRACTOR SHALL REFERENCE ADDITIONAL CONSTRUCTION PLANS FOR DEMOLITION OF EXISTING AND CONSTRUCTION OF PROPOSED IMPROVEMENTS.

PROPOSED COMPACTED

ROAD BASE SURFACE

- ADJACENT STREETS SHALL BE KEPT CLEAN AND FREE OF SEDIMENT AND/OR DEBRIS AT ALL TIMES.
- TEMPORARY STABILIZATION (TS) SHALL BE IMPLEMENTED WITHIN THE DISTURBED PORTIONS OF THE PROJECT SITE NO LATER THAN 14 DAYS FOLLOWING THE CEASE OF CONSTRUCTION ACTIVITIES WITHIN THE DISTURBED AREAS.
- PERMANENT STABILIZATION (PS) MAY BE USED WITHIN AREAS OF TEMPORARY STABILIZATION (TS) AT THE CONTRACTOR'S DISCRETION. STABILIZATION SHALL BE APPLIED IN ACCORDANCE WITH APPLICABLE TEMPORARY STABILIZATION SEQUENCING
- 5. CONTRACTOR SHALL UTILIZE ROLLED EROSION CONTROL PRODUCTS (STRAW-SINGLE NET EROSION CONTROL BLANKETS AND OPEN WEAVE TEXTILES) ON ALL SLOPES 3H:1V OR GREATER TO ACHIEVE REQUIRED STABILIZATION.
- CONTRACTOR SHALL MAINTAIN ACCEPTABLE EROSION CONTROL PRACTICES WITHIN THE ANTICIPATED LIMITS OF CONSTRUCTION IDENTIFIED HEREIN. BEST MANAGEMENT PRACTICES AND STABILIZATION SHALL BE COMPLETED AS IDENTIFIED HEREIN IN ACCORDANCE WITHIN OWNER REQUIREMENTS.
- SILT FENCE TO BE INSTALLED PRIOR TO COMMENCEMENT OF ONSITE GRADING AND CONSTRUCTION ACTIVITIES.
- DEMOLITION, REMOVAL, OVEREXCAVATION AND SOIL TREATMENT SHALL BE IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEER RECOMMENDATIONS AS NOTED IN THE APPROVED PROJECT
- 9. NO ASPHALT OR CONCRETE BATCH PLANTS SHALL BE USED

LIMITS OF CONSTRUCTION

 $= \pm 2.31$ ACRES $= \pm 0.00$ ACRES $= \pm 2.31$ ACRES



Know what's **below**. Call before you dig.

CALL UTILITY NOTIFICATION CENTER OF COLORADO 2-BUSINESS DAYS IN ADVANCE FORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES

FOR REVIEW ONL' NOT FOR CONSTRUCTION **Kimley»Horn** Kimley-Horn and Associates, In

PRELIMINARY

DESIGNED BY: EJ

DRAWN BY: RE

CHECKED BY: EJ

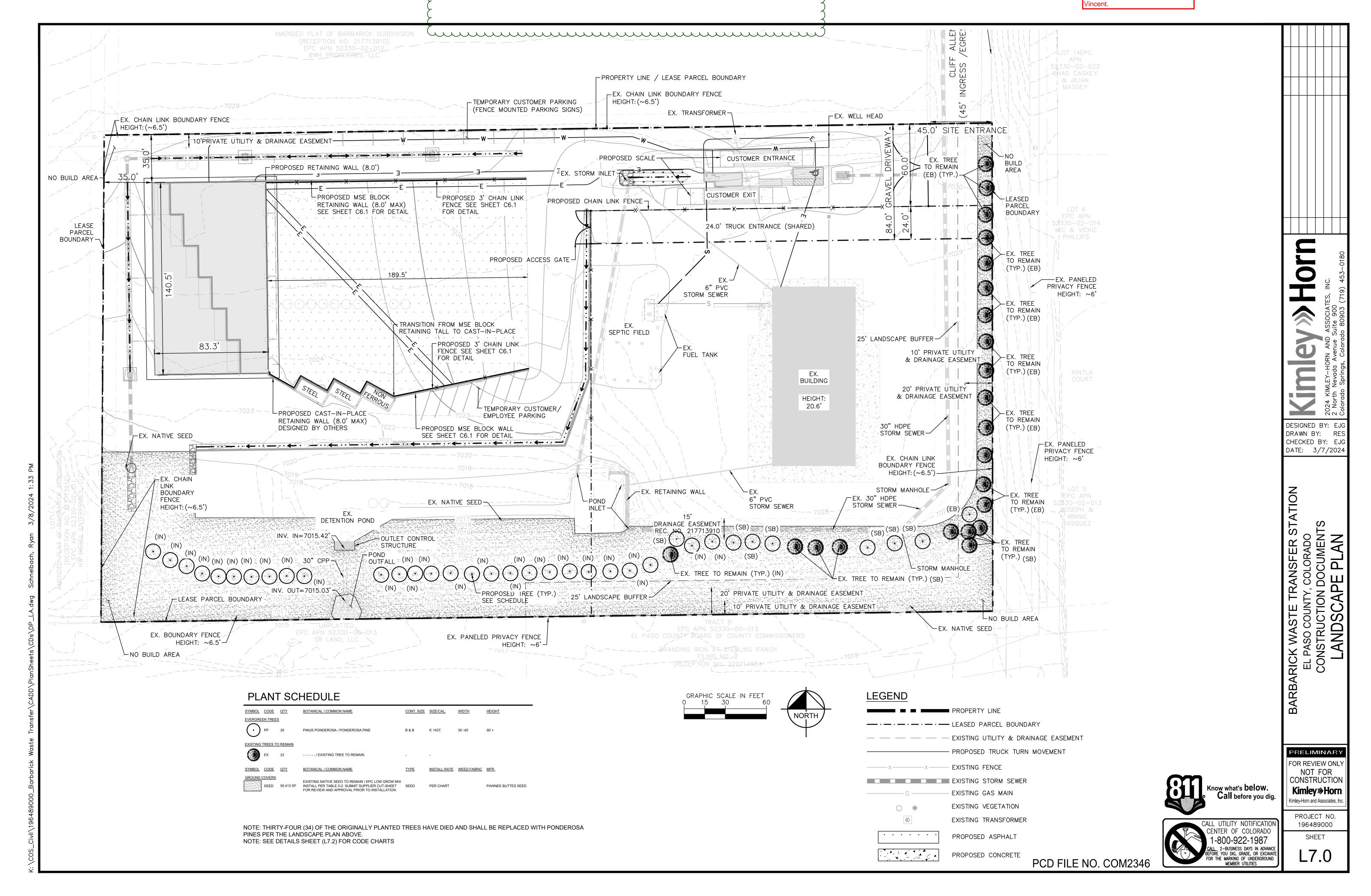
DATE: 3/6/202

8 <u>m</u>

EX WAST PASO CO ING AND FINAL

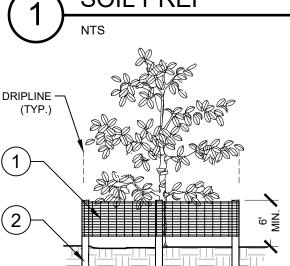
GRADI

PROJECT NO. 196489000 SHEET



1. TOPSOIL TO CONSIST OF DARK, LIGHT LOAM SOIL FREE OF ROCKS, ROOTS, AND FOREIGN MATERIALS. 2. THE FERTILIZER APPLICATION SHOULD BE DELAYED IF PLANTING DOES NOT OCCUR WITHIN 2-3 DAYS

- OF FERTILIZING 3. COMPOST TO CONSIST OF 1 YEAR OLD ORGANIC MATERIAL AND SHOULD NOT INCLUDE CHICKEN
- 4. FROZEN MATERIALS OR MATERIALS GREATER THAN 1" DIA. SHOULD BE REMOVED.
- 5. REFER TO SPECS FOR COMPLETE SOIL PREPARATION REQUIREMENTS.
- 6. THE ROTO-TILLED PERIMETER SHOULD EXTEND TO A DISTANCE OF 1 FOOT BEYOND THE DIAMETER OF

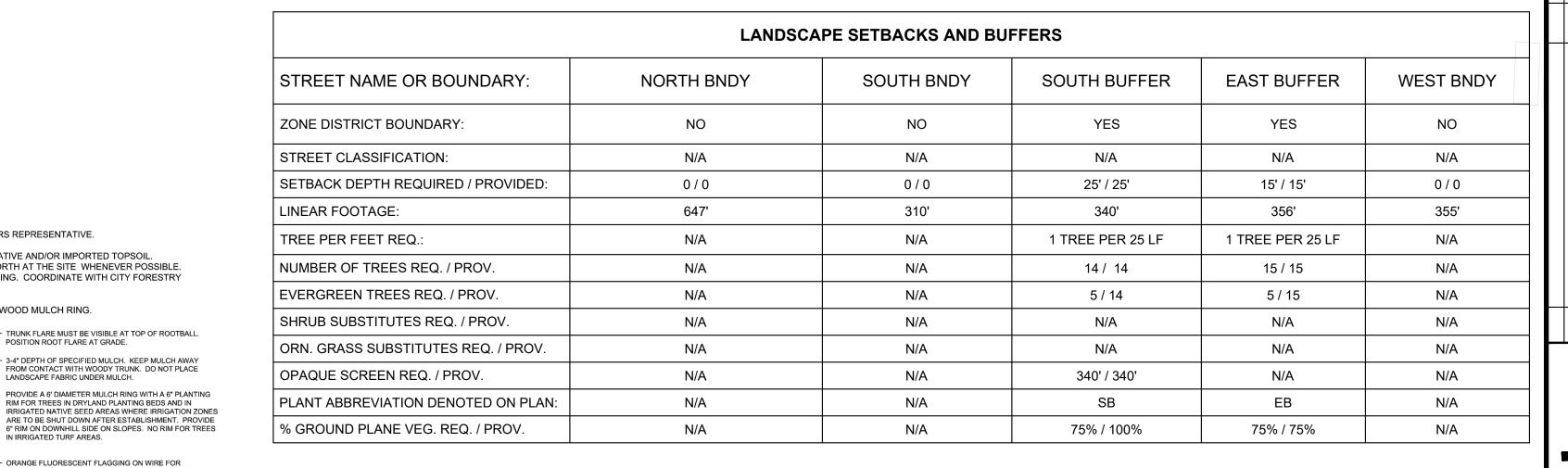


(1) 6'H "PERIMETER PLUS" CONSTRUCTION FENCE BY CONWED PLASTICS OR OWNER'S REPRESENTATIVE APPROVED EQUAL. SUBMIT PRODUCT INFORMATION FOR APPROVAL PRIOR TO INSTALLATION. 2) 8' TALL METAL "T" POSTS OR 2" x 2" X 8' PRESSURE TREATED WOOD POSTS WITH 24"

INSTALLATION NOTES:

- BE IN PLACE. FLEXIBLE FIBERGLASS ROD POSTS ARE RECOMMENDED FOR PARKS, ATHLETIC EVENTS AND TREATED WOOD POSTS ARE TYPICALLY USED FOR CONSTRUCTION AND OTHER APPLICATIONS.
- OF 1/3 OF THE HEIGHT OF THE POST. FOR EXAMPLE, A 6' POST SHOULD BE SET AT LEAST 2' INTO THE GROUND.





INTERNAL LANDSCAPING					
GROSS SITE AREA:	230,422 SF (5.29 AC)				
PERCENT MINIMUM INTERNAL AREA:	5%				
INTERNAL LANDSCAPE AREA REQ. / PROV.	11,521 SF / 50,413 SF				
TREE PER FEET REQ.	178EE-RER 500-SE-				
INTERNAL TREES REQ. / PROV.	23 / 28				
SHRUB SUBSTITUTES REQ. / PROV.	N/A				
ORN. GRASS SUBSTITUTES REQ. / PROV.	N/A				
PLANT ABBREVIATION DENOTED ON PLAN:					
% GROUND PLANE VEG. REQ. / PROV.	75% / 100%				

Please title as alternative landscape plan and explain in the LOI the justification for why you cant meet landscape code

Addressed, left as is per conversation ith Ashlyn and Aaron.

Table B. El Paso County All-Purpose Low Grow Mix for Upland and Transition Areas

Disclaimer: These planting details are for City review and approval process and shall not be used for construction or bidding purposes.

1. DO NOT REMOVE OR CUT LEADER.

4. KEEP PLANTS MOIST AND SHADED UNTIL PLANTING.

8. ALL TREES TO BE DEEP WATERED AT TIME OF PLANTING.

2 PRUNE ONLY DEAD OR BROKEN BRANCHES IMMEDIATELY PRIOR TO PLANTING.

FOR CURRENT INSECT AND DISEASE RECOMMENDATIONS PRIOR TO PLANTING.

--- MIN 2 X ROOTBALL -----

EVERGREEN TREE PLANTING

3. DO NOT REMOVE ANY DOUBLE LEADER, UNLESS OTHERWISE DIRECTED BY OWNERS REPRESENTATIVE.

9. ALL TREES LOCATED IN ROCK/COBBLE BEDS SHALL HAVE A 36 INCH DIAMETER WOOD MULCH RING.

5. AMENDED BACKFILL SHALL BE 1/3 COMPOST (PREFERABLY CLASSIFIED) AND 2/3 NATIVE AND/OR IMPORTED TOPSOIL. 6. MARK THE NORTH SIDE OF TREE IN THE NURSERY, AND ROTATE TREE TO FACE NORTH AT THE SITE WHENEVER POSSIBLE.

7. PINE AND SPRUCE TREES TO BE SPRAYED FOR IPS BARK BEETLE PRIOR TO PLANTING. COORDINATE WITH CITY FORESTRY

- TRUNK FLARE MUST BE VISIBLE AT TOP OF ROOTBALL. POSITION ROOT FLARE AT GRADE.

- 3-4" DEPTH OF SPECIFIED MULCH. KEEP MULCH AWAY FROM CONTACT WITH WOODY TRUNK. DO NOT PLACE

RIM FOR TREES IN DRYLAND PLANTING BEDS AND IN

ORANGE FLUORESCENT FLAGGING ON WIRE FOR

SET TREE VERTICAL, STAKE TREES SMALLER THAN 6' WITH TWO POSTS ON THE LEEWARD AND WINDWARD

PROVIDE FLAGGING FOR VISIBILITY. SET STAKES IN MINIMUM 18" FIRM SOIL. REMOVE STAKES WITHIN 12-18 MONTHS OF PLANTING.

- AFTER TREE IS POSITIONED, REMOVE ALL TWINE, ROPE, PLASTIC, WIRE, BURLAP, AND RUBBER.

SIDES; STAKE TREES 6' HEIGHT AND GREATER WITH 3 METAL ANGLE IRONS, PLACED 120 DEGREES APART. USE NYLON STRAP WITH GROMMETS BELOW MIDPOINT OF TREE. TIGHTEN #10 GUY WIRE BY TWISTING. PROTECT BRANCHES FROM TOUCHING WIRE. ALLOW A SLIGHT SAG FOR SWAY.

CARIFY SIDES OF PLANTING PIT. BACKFILL WITH AMENDED

SOIL MIX. ROOTBALL SHALL REST ON FIRM, UNDISTURBED SOIL.

Rev: 6-5-2023

196-489-000-12

PROVIDE A 6' DIAMETER MULCH RING WITH A 6" PLANTING

LANDSCAPE FABRIC UNDER MULCH.

IN IRRIGATED TURF AREAS.

				Pounds PLS	Pounds PLS	Pounds PLS
Common Name	Scientific Name	Growth Season/Form	% of Mix	Irrigated broadcastIrrigated hydroseeded	 non-irrigated broadcast non-irrigated hydroseeded irrigated drilled 	●non-irrigated drilled
				(80 seeds/sq ft)	(40 seeds/sq ft)	(20 seeds/sq ft)
Buffalograss	Buchloe dactyloides	Warm, sod	25	9.6	4.8	2.4
Blue Grama	Bouteloua gracilis	Warm, bunch	20	10.8	5.4	2.7
Sideoats Grama	Bouteloua curtipendula	Warm, bunch	29	5.6	2.8	1.4
Green Needlegrass	Nassella viridula	Cool, bunch	5	3.2	1.6	0.8
Western Wheatgrass	Pascopyrum smithii	Cool, sod	20	12.0	6.0	3.0
Sand Dropseed	Sporobolus cryptandrus	Warm, bunch	1	0.8	0.4	0.2
		Seed rate (lbs PLS	(acre)	42.0	21.0	10.3

Know what's **below.**Call before you dig.

CALL UTILITY NOTIFICATION CENTER OF COLORADO CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES

PRELIMINARY FOR REVIEW ONLY NOT FOR CONSTRUCTION **Kimley** Whorn Kimley-Horn and Associates, Inc

200

DESIGNED BY: EJO

DRAWN BY: RES CHECKED BY: EJO

DATE: 3/7/2024

BARBARICK WASTE TRANSFER STATION
EL PASO COUNTY, COLORADO
CONSTRUCTION DOCUMENTS
LANDSCAPE DETAILS

PROJECT NO. 196489000 SHEET

PCD FILE NO. COM2346

A SINGLE ROOT BALL. **ELEVATION** 6'-8'oc <u>PLAN</u> CORNER CONNECTION

BURIAL BELOW GRADE. A. POST SELECTION SHOULD BE BASED ON EXPECTED

196-489-000-01

STRENGTH NEEDS AND THE LENGTH OF TIME FENCE WILL CROWD CONTROL INSTALLATIONS. METAL "T" POSTS OR

B. POSTS SHOULD BE DRIVEN INTO THE GROUND TO A DEPTH

C. SPACE POSTS EVERY 6' (MIN.) TO 8' (MAX.).

D. SECURE FENCING TO POST WITH NYLON CABLE TIES (AVAILABLE FROM CONWED PLASTICS). WOOD STRIPS MAY BE ALSO BE USED TO PROVIDE ADDITIONAL SUPPORT AND PROTECTION BETWEEN TIES AND POSTS.

NOTE: IF WIRE TIES ARE USED, AVOID DIRECT CONTACT WITH FENCE. WIRE MAY DAMAGE FENCE OVER TIME.

A PORTION OF THE SOUTHWEST QUARTER OF SECTION 33, TOWNSHIP 12 SOUTH, RANGE 65 WEST OF THE 6TH P.M. CITY OF COLORADO SPRINGS, COUNTY OF EL PASO, STATE OF COLORADO

> SITE DEVELOPMENT PLAN MARCH 2024

OWNER'S STATEMENT

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

OWNER SIGNATURE

BRIAN BELAND BR 8812 CLIFF ALLEN POINT LLC PO BOX 88120 COLORADO SPRINGS CO 80908-8120

ENGINEER'S STATEMENT

THESE DETAILED PLANS AND SPECIFICATIONS WERE PREPARED UNDER MY DIRECTION AND SUPERVISION. SAID PLANS AND SPECIFICATIONS HAVE BEEN PREPARED ACCORDING TO THE ORITHER TO STANDENED BY THE COUNTY FOR DETAILED ROADWAY, PRIMINED, SPECIFICATIONS ARE IN CONFORMITY WITH APPLICABLE MASTER TRANSPORTATION PLANS. SAID PLANS AND SPECIFICATIONS HERE THE PROPOSES FOR WHICH THE PARTICULAR ROADWAY AND DRAINAGE FACILITIES ARE DISCORDED AND ARE CORRECT TO THE REST OF WAY ROADWAY AND DRAINAGE FACILITIES ARE DESCRIBED AND ECORPORT OF THE REST OF WAY REACREST ACTS, PROPOSES OR SPECIFICATIONS WAY CORRECT TO THE REST OF WAY REACREST ACTS, PROPOSES OR SPECIFICATIONS OF WELL PROPOSED AND ASSOCIATION OF THE SET DIRECTIONS AND SPECIFICATIONS.

ERIC GUNDERSON, PE (CO #49487) - KIMLEY-HORN AND ASSOCIATES, INC. DATE

GENERAL NOTE

THE PARTES RESPONSIBLE FOR THIS PLAN HAVE FAMILIARIZED THEMSELVES WITH ALL CURRENT ACCESSIBILITY CRITERIA AND SPECIFICATIONS AND THE PROPOSED PLAN REFLICTS ALL THE STE ELEMENTS REQUIRED BY THE APPLICABLE AND ESSIGN STANDARDS AND GUIDELINES AS PUBLISHED BY THE UNITED STATES DEPARTMENT OF AUST. APPROVAL OF THIS PLAN BY EL PASO COUNTY DOES NOT ASSURE COMPUNIONE WITH THE ADA OR ANY REGULATIONS OR GUIDELINES DIACTED OR PROMULGATED UNDER OR WITH RESPECT TO SUCH LANS.

CONTACTS

OWNER: BRIAN BELAND, BR 8812 CLIFF ALLEN POINT LLC PO BOX 88120 COLORADD SPRINGS CO 80908-8120

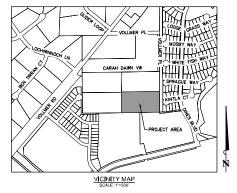
APPLICANT: RICHARD GRAHAM JR. 6035 ERIN PARKWAY DRIVE, SUITE 101 COLORADO SPRINGS CO 80918 TEL: (719) 440-9414 CONTACT: RICHARD GRAHAM JR

EL PASO COUNTY:
EL PASO COUNTY
PCO DEPARTMENT
2880 INTERNATIONAL CIRCLE, SUITE 110
COLORADD SPRINDS, CO 80910
PHONE: (719) 520-6300

ENGINEER
KIMLEY-HORN AND ASSOCIATES, INC.
2 NEVADA NORTH AVE., SUITE 300
COLORADO SPRINCS, CÓ 80903
TEL: (719) 453-0182
CONTACT: ERIC GUNDERSON, P.E.

ARCHITECT:
BUCHER DESIGN STUDIO, INC.
12325 ORACLE BLVD, SUITE 101
COLORADO SPRINGS, CO 80921
(719) 484-0480
CONTACT: JASON SHOUDIS

LANDSCAPE ARCHITECT: KIMLEY-HORN AND ASSOCIATES, INC. 2 NEVADA NORTH AVE, SUITE 300 COLORADO SPRINGS, CO 80903 (719) 284-7280 CONTACT: JIM HOUK



SHEET INDEX			
SHEET TITLE SHEET NO.			
COVER SHEET	SDP-1		
SITE PLAN	SDP-2		

SURVEYOR: LAND DEVELOPMENT CONSULTANTS, INC. 3898 MAIZELAND ROAD CDLORADO SPRINGS, CO 80909 TEL: (719) 528-6133 CONTACT: DAVID V. HOSTETLER

LEGAL DESCRIPTION

PARCEL A:
LOT 4, AMENDED PLAT OF BARBARICK SUBDIVISION, COUNTY OF EL PASO, STATE OF
COLORADO.

CONTAINING 5.290 ACRES (230,442 S.F.), MORE OR LESS.

PARCEL B:
A NON-EXCLUSIVE INGRESS AND ECRESS EASEMENT AS SET FORTH AND DESCRIBED IN DECLARATION AND BYLAWS OF BARBARICK SUBDIVISION PROPERTY OWNERS ASSOCIATES, INC., RECORDED FEBRUARY 12, 2008 UNDER RECEPTION NO. 2008108289 AS AMENDED BY INSTRUMENT RECORDED MARCH 10, 2008 UNDER RECEPTION NO. 200820800.

LEASED PARCEL: 3.927 ACRES

BENCHMARK

4 DIAMETER PRECAST CONCRETE STORM SEWER MANHOLE RIM LOCATED IN THE SOUTHEASTERLY PORTION OF THE PROPERTY, ELEVATION - 7027.34 "NGVD 1929 AND THE 1960 SUPPLEMENTARY ADJUSTMENT" DATUM.

FEMA CLASSIFICATION
THIS PROPOERTY IS LOCATED WITHIN THE ZONE X (AREAS DETERMINED TO BE DUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAND AS DETERMINED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY, FLOOD INSURANCE RATE MAP NO. 08041C0533G, EFFECTIVE DATE DECEMBER 7, 2018.

SITE DATA

ZONING CLASSIFICATION: I-3 CAD-0 (HEAVY INDUSTRIAL) VEHICLE/EQUIPMENT REPAIR AND STORAGE PROPOSED LAND USE: WASTE TRANSFER STATION FACILITY

JURISDICTION: EL PASO COUNTY SITE ADDRESS: 8812 CLIFE ALLEN PT 5233002013 TAX SCHEDULE NO .:

3.927 ACRES (143,638 S.F.) 5.290 ACRES (230,442 S.F.) BUILDING SETBACKS: 35' NORTH SETBACK 35' WEST SETBACK

EXISTING LOT COVERAGE: GRAVEL AND NATURAL PASTURE MEADOW VEGETATIVE COVER

MAXIMUM LOT COVERAGE: 25.0%

23.7% (54.731/230,442)X100 = 23.7% PROPOSED LOT COVERAGE

SITE COVERAGE: BUILDING - 19.974 S.F

PAVEMENT/HARDSCAPE - 35,747 S.F. - 117,601 S.F. - 57,120 S.F. LANDSCAPING (PERVIOUS AREA)

PARKING SUMMARY

	PARKING REQUIRED	PARKING PROVIDED
OFF-STREET	1/750 S.F.	15 (REGULAR)
ADA	1/25 SPACES	1 (ADA)
TOTAL	16 SPACES	16 SPACES

BUILDING DATA

BUILDING HEIGHT:

PROPOSED: MAXIMUM BY CODE: 34.9° 40.0° BUILDING GROSS S.F.:

Know what's below.



SHEET

PCD FILE NO. COM2346

ASSOCIATES INC.

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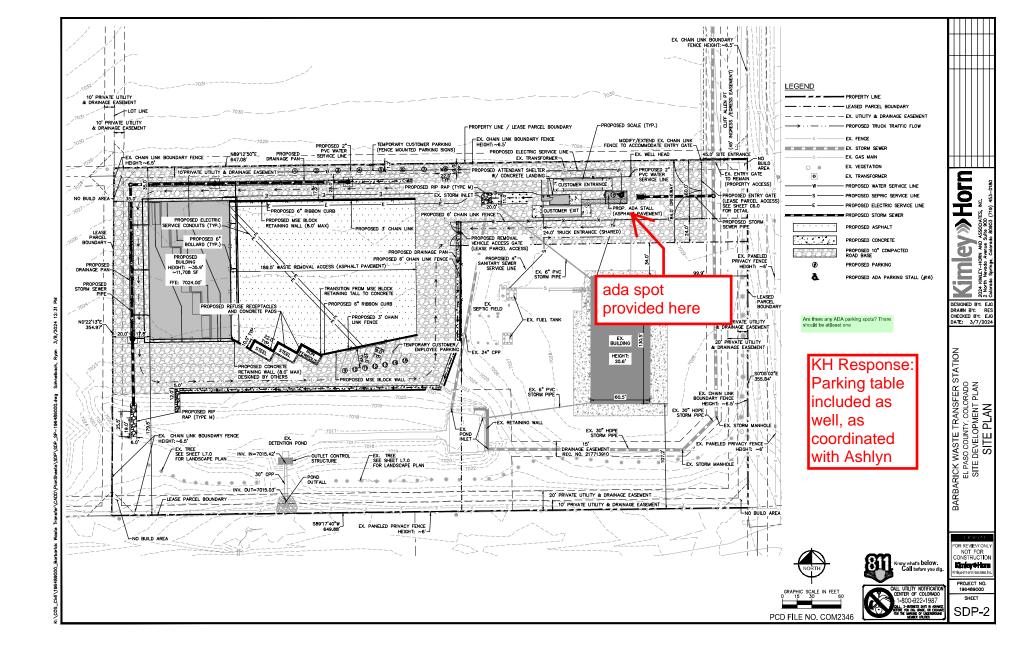
KIMIEY-HORN 2 North Newada Aw

BARBARICK WASTE TRANSFER STATION
EL PASO COUNTY, COLORADO
SITE DEVELOPMENT PLAN
COVER SHEET

OR REVIEW ONL NOT FOR ONSTRUCTION Kinier+Han

PROJECT NO. 196489000

SDP-1





								Fed Lamp	Terms		
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Statistics						
Description	Symbol	Avg		Max/Min	Avg/Min	
Attendant Shelter	+	0.1 fc	0.0 fc	N/A	N/A	5.0 fc
Property Line +20 Feet	+	0.0 fc	0.0 fc	N/A	N/A	0,1 fc

GENERAL NOTES

- A. DRAWINGS ARE BASED ON RECORD DRAWINGS (NOT GUARANTEED TO BE CURRENT AT THIS OF CONSTRUCTION) AN FIELD EVESTIGATION WITH DEMOLITION, EXAMPLE PLANS AND WIST THE SITE TO FIELD VERBY ACTUAL CONDITIONS AND COORDINATE SAME WITH OTHER TRADES PRIOR TO STARTING WORK.
- A LICENSED AND BONDED CONTRACTOR SHALL BE USED FOR INSTALLATION, ALL LOCAL CODES SHALL BE FOLLOWED DUR INSTALLATION.
- C. ALL LIGHTING FIXTURES SHALL BE FULL CUT-OFF OR HAVE SHEEDING TO REDUCE OFF-SITE LIGHTING IMPACTS ONTO ADJACENT REPORENTES AND ROADWAYS ALL EXTERIOR LIGHTING SHALL BE ARRANGED TO MEIGATE LIGHT (RECTES AWAY FROM ADJACENT PROPRIETS AND AVPUBLIC RICHT-OFF-WAY. AN AMENOMENT TO THIS PLAN MAY BE REQUI IF THE LIGHTING TYPE IS CHARGED.

KEYNOTE

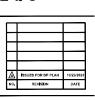
- UGHTING FOR THE WALKWAYS WILL BE PROMOED BY WALL-MOUNTED DOWN CASTING FIXTURES LOCATED O PROPOSED BULLOING, FINAL LOCATION TO BE DETERM DURING BULLDING DESIGN.
- EXTERIOR LIGHTING, EXCEPT SECURITY LIGHTING, WILL BE CONTROLLED BY A TIME CLOCK TO BE TURNED OFF DURING NON-OPERATING HOURS.

Chattan

10186 MT. LINCOLN DR. PEYTON, CO 80831 INFO@CHIARTANOEG.COM 719:257:2091

Z

BARBARICK WASTE TRANSFER STATION 8812 CLIFF ALLEN PT. COLORADO SPRINGS, CO



DATE:

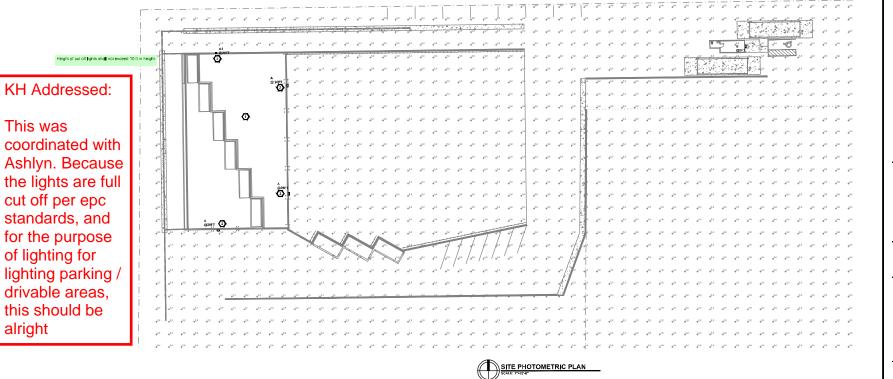
EET CONTENTS:

SITE PHOTOMETRIC PLAN

SHEET NUMBER:

FILE #:COM2346

E100



Include discussion related to construction waste. The text you added between Submittal 1 and 2 is only related to post-construction because you added text about storing waste within the proposed facility. My previous comment is provided at the bottom of the page for reference.

Management of Contaminated Soils - Contaminated soils are not anticipated on this encountered, the Qualified Stormwater Manager shall take appropriate containme KH Comment treatment measures.

Response:

- Loading and Unloading Operations Loading and unloading operations will be taking Addressed the Site; therefore, the potential exists for these operations to introduce sediment and nonsediment pollutants to stormwater discharges.
- Outdoor Storage of Materials Limited outdoor storage of materials is anticipated with construction of this site; however, outdoor storage of chemicals, fertilizers, etc. is not anticipated.
- Vehicle and Equipment Maintenance and Fueling Routine maintenance and fueling of vehicles and equipment is anticipated with this Site; therefore, the potential exists for pollutants associated with these activities to contribute pollutants to stormwater discharges.
- Significant Dust or Particulate Generating Processes Earth disturbing activities (grading, excavation, etc.) will be necessary for this project; therefore, the potential exists for windblown site soils to contribute sediment to stormwater discharges. Qualified Stormwater Manager shall use Dust Control and other specified BMPs from the ESCP to control sediment.
- Routine Maintenance Routine maintenance involving fertilizers, pesticides, detergents, fuels, solvents, oils, etc., other than those identified within Vehicle and Equipment Maintenance and Fueling are not anticipated with this project. If encountered, the Qualified Stormwater Manager shall take appropriate containment and treatment measures.
- Onsite Waste Management Waste management consisting of dumpsters are anticipated onsite; therefore, the potential exists for these operations to introduce sediment and nonsediment pollutants to stormwater discharges. These dumpsters are to be kept indoors within the proposed facility, will only accept dry-waste, and will be removed to the regional waste facility (Waste Management), daily. Liquid wastes and organic wastes are not accepted at the site.
- Concrete Truck / Equipment Washing Concrete truck and equipment washing are anticipated with this project. The Qualified Stormwater Manager shall take appropriate containment and treatment measures. A concrete washout structure is proposed for the containment of concrete runoff.
- Dedicated Asphalt and Concrete Batch Plants Dedicated asphalt and/or concrete batch plants are not anticipated with this project. If encountered, the Qualified Stormwater Manager shall take appropriate containment and treatment measures and document as necessary.
- Non-Industrial Waste Sources Non-Industrial waste sources limited to portable sanitary facilities are anticipated with this project. Worker trash receptacles and toilets will be provided in the locations shown on the GEC Plans.
- Form Oil If encountered, the Qualified Stormwater Manager shall take appropriate containment and treatment measures and document as necessary.
- Pesticides and/or Herbicides If encountered, the Qualified Stormwater Manager shall take appropriate containment and treatment measures and document as necessary.
- Saw Cutting Operations Saw cutting operations are not anticipated with this project. If water is used during saw cutting, Qualified Stormwater Manager shall take appropriate containment and treatment measures to prevent illigit material from leaving the site.
- Additional Pollutant Sources Additional areas or procedures where potential spills could occur are not anticipated with this project. Should additional pollutant sources be present, contractor shall implement appropriate treatment methods; add source to this plan and report to the inspector.

Logs for the identification of pollutant sources are included in the Appendices for reference and use.

Barbarick Transfer Station - El Paso County, CO **SWMP** KH Comment Response:

Addressed

lot grading will require temporary seeding within 14 days of establishment. This does not preclude the 7-day requirement for areas fully completed in the future. At a minimum in ensuring that this requirement is followed, adequate phasing/scheduling will be required.

FINAL STABILIZATION AND LONG TERM STORMWATER MANAGEMENT

Final Stabilization has been completed if the following criteria have been met:

- 1. All ground surface disturbing activities at the construction site have been completed.
- 2. Must provide non-vegetative erosion control measures designed and installed for either permanent or temporary (which would completely degrade and decompose without leaving litter) placement to provide cover. BMP controls may be used in lieu of erosion control measures provided that they are selected and designed to protect the seed and surface from erosion as much as possible without active maintenance until the natural stabilizing effect of vegetation is established.
- 3. All disturbed areas must be permanently stabilized, either by means of pavement, concrete, or stabilized road-base. The soil must be compacted per the Geotechnical Report found in **Appendix D**, to ensure final stabilization.
- 4. Must attempt to reestablish a perennial vegetative cover using topsoil preserved from the site and/or with additional (preferably local) topsoil from off-site, mulch, fertilizer, and/or other methods with seeding and planting. The vegetative cover, preferably of an indigenous seed mix, should be equivalent to the background cover. The permanent stabilization must include a uniform vegetative cover with an individual plant density of at least 70 percent of pre-disturbance levels, and is expected to occur within 3 to 3.5 years after project completion with average precipitation.
- 5. The onsite road base will be finalized once the soil has been stabilized and the base course has been installed immediately after soil compaction and subgrade has been established.
- 6. Concrete Trickle Channel installed with the on-site Extended Detention Basin will require temporary erosion control measures (i.e. Sediment Control Log or approved equivalent) to ensure excessive sediment or debris is not circulated within the system.
- 7. KH Comment Response: are infrastructure to be protected until upstream drainage areas are fully Addressed Update this section to be specific to this project.

Long-Term Stormwater Management:

The proposed stormwater system includes a storm sewer system throughout the site, discharging into either an on-site bioretention rain garden, water quality structures, or extended detention basin located in the east, southwest, southeast, and north portions of the Site, respectively. All long-term stormwater management systems will be maintained by the Owner and/or Operator of the building. In the event of failure of the system, the City of Brighton has been granted access to the drainage facilities for purposes of repair or maintenance. From these water quality BMPs, the water will discharge off-site into South Beebe Draw Metro District. Seeding shall be installed within 48 hours of final grading and meet the final stabilization requirements stated above.

INSPECTION AND MAINTENANCE

Inspections shall be the responsibility of the Qualified Stormwater Manager throughout the construction process.

2024 Financial Assurance Estimate Form

(with pre-plat construction)

Updated: 10/2023 PROJECT INFORMATION Date: March 2024 PCD File No.: COM2346 Project Name 8812 Cliff Allen Pt - Barbarick Transfer Station

			Unit				(with Pre-Plat Construction)		
Description	Quantity	Units	Cost			Total	% Complete		Remaining
SECTION 1 - GRADING AND EROSION CONTRO	L (Construction	n and Perm	anent BMPs)						
Earthwork									
less than 1,000; \$5,300 min		CY	\$ 8.00	=	\$	-		\$	-
1,000-5,000; \$8,000 min		CY	\$ 6.00	=	\$	-		\$	-
5,001-20,000; \$30,000 min	8606.	CY	\$ 5.00	=	\$	43,030.00		\$	43,030.0
20,001-50,000; \$100,000 min		CY	\$ 3.50	=	\$	-		\$	
50,001-200,000; \$175,000 min		CY	\$ 2.50	=	\$	-		\$	-
greater than 200,000; \$500,000 min		CY	\$ 2.00	=	\$	-		\$	-
Permanent Erosion Control Blanket		SY	\$ 9.00	=	\$	-		\$	-
Permanent Seeding (inc. noxious weed mgmnt.) & Mulching	1.2	AC	\$ 2,018.00	=	\$	2,421.60		\$	2,421.6
Permanent Pond/BMP (provide engineer's estimate)		EA		=	\$	-		\$	-
Concrete Washout Basin	1.	EA	\$ 1,172.00	=	\$	1,172.00		\$	1,172.0
Inlet Protection	8.	EA	\$ 217.00	=	\$	1,736.00		\$	1,736.0
Rock Check Dam		EA	\$ 651.00	=	\$	-		\$	-
Safety Fence (CONSTRUCTION FENCE)	960.	LF	\$ 3.00	=	\$	2,880.00		\$	2,880.0
Sediment Basin (EXISTING DETENTION POND)	.5	EA	\$ 2,294.00	=	\$	1,147.00		\$	1,147.0
Sediment Trap		EA	\$ 538.00	=	\$	-		\$	-
Silt Fence	841.	LF	\$ 3.00	=	\$	2,523.00		\$	2,523.0
Slope Drain		LF	\$ 43.00		\$	<u>-</u>		\$	-
Straw Bale		EA	\$ 33.00	=	\$	-		\$	-
Straw Wattle/Rock Sock	601.	LF	\$ 8.00	-	\$	4,808.00		\$	4,808.0
Surface Roughening		AC	\$ 269.00		\$	_		\$	-
Temporary Erosion Control Blanket	32.	SY	\$ 3.00	-	\$	96.00		\$	96.0
Temporary Seeding and Mulching	.01	AC	\$ 1,793.00	=	\$	17.93		\$	17.9
Vehicle Tracking Control	1.	EA	\$ 3,085.00	=	\$	3,085.00		\$	3,085.0
			, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	-	\$	-		\$	-
[insert items not listed but part of construction plans]					\$	_		\$	_
	ITENANCE (35%	o of Constr	uction RMPs)		\$	5,702.53		\$	5,702.5
- Subject to defect warranty financial assurance, A minimum of 20% shall be	TENANCE (33 /	o or consu	action bi-ii s)	_	4	3,702.33		4	3,70213
etained until final acceptance (MAXIMUM OF 80% COMPLETE ALLOWED)		Section	n 1 Subtotal	=	\$	68,619.06		\$	68,619.06
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SECTION 2 - PUBLIC IMPROVEMENTS *									
OADWAY IMPROVEMENTS									
		LS		=	\$	-		\$	-
Construction Traffic Control		LS Tons	\$ 37.00	=	\$	-		\$	-
Construction Traffic Control Aggregate Base Course (135 lbs/cf)			\$ 37.00 \$ 66.00			- - -			- -
Construction Traffic Control Aggregate Base Course (135 lbs/cf) Aggregate Base Course (135 lbs/cf)		Tons	-		\$			\$	
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Construction Traffic Control Aggregate Base Course (135 lbs/cf) Aggregate Base Course (135 lbs/cf) Asphalt Pavement (3" thick) Asphalt Pavement (6" thick) Asphalt Pavement (6" thick) Asphalt Pavement (147 lbs/cf)" thick Raised Median, Paved Regulatory Sign/Advisory Sign Guide/Street Name Sign Epoxy Pavement Marking Thermoplastic Pavement Marking Barricade - Type 3 Delineator - Type I Curb and Gutter, Type A (6" Vertical) Curb and Gutter, Type B (Median) Curb and Gutter, Type C (Ramp) 4" Sidewalk (common areas only) 5" Sidewalk 8" Sidewalk Pedestrian Ramp Cross Pan, local (8" thick, 6' wide to include return) Cross Pan, collector (9" thick, 8' wide to include return)		Tons CY SY SY SY Tons SF EA EA SF SF EA LF LF SY SY SY SY	\$ 66.00 \$ 18.00 \$ 38.00 \$ 114.00 \$ 392.00 \$ 17.00 \$ 30.00 \$ 259.00 \$ 38.00 \$ 38.00 \$ 38.00 \$ 38.00 \$ 4.00 \$ 125.00 \$ 1,496.00 \$ 1,496.00 \$ 79.00	= = = = = = = = = = = = = = = = = = = =	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - - - - - - - - - - - - -		* * * * * * * * * * * * * * * * * * * *	- - - - - - - - - - - - - - - - - - -
Construction Traffic Control Aggregate Base Course (135 lbs/cf) Aggregate Base Course (135 lbs/cf) Asphalt Pavement (3" thick) Asphalt Pavement (6" thick) Asphalt Pavement (6" thick) Asphalt Pavement (147 lbs/cf) Raised Median, Paved Regulatory Sign/Advisory Sign Guide/Street Name Sign Epoxy Pavement Marking Thermoplastic Pavement Marking Barricade - Type 3 Delineator - Type I Curb and Gutter, Type A (6" Vertical) Curb and Gutter, Type B (Median) Curb and Gutter, Type C (Ramp) 4" Sidewalk (common areas only) 5" Sidewalk 6" Sidewalk Pedestrian Ramp Cross Pan, local (8" thick, 6' wide to include return) Cross Pan, collector (9" thick, 8' wide to include return) Curb Opening with Drainage Chase		Tons CY SY SY SY Tons SF EA EA LF LF LF SY SY SY SY LF	\$ 66.00 \$ 18.00 \$ 25.00 \$ 114.00 \$ 392.00 \$ 17.00 \$ 30.00 \$ 259.00 \$ 38.00 \$ 38.00 \$ 38.00 \$ 38.00 \$ 38.00 \$ 38.00 \$ 17.00 \$ 392.00 \$ 119.00 \$ 119.00 \$ 119.00 \$ 1,926.00		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - - - - - - - - - - - - -		* * * * * * * * * * * * * * * * * * * *	- - - - - - - - - - - - - - - - - - -
Construction Traffic Control Aggregate Base Course (135 lbs/cf) Aggregate Base Course (135 lbs/cf) Asphalt Pavement (3" thick) Asphalt Pavement (4" thick) Asphalt Pavement (6" thick) Asphalt Pavement (6" thick) Asphalt Pavement (147 lbs/cf)" thick Raised Median, Paved Regulatory Sign/Advisory Sign Guide/Street Name Sign Epoxy Pavement Marking Thermoplastic Pavement Marking Barricade - Type 3 Delineator - Type I Curb and Gutter, Type A (6" Vertical) Curb and Gutter, Type B (Median) Curb and Gutter, Type C (Ramp) 4" Sidewalk (common areas only) 5" Sidewalk 6" Sidewalk 8" Sidewalk Pedestrian Ramp Cross Pan, local (8" thick, 6' wide to include return) Cross Pan, collector (9" thick, 8' wide to include return) Curb Opening with Drainage Chase Guardrail Type 3 (W-Beam)		Tons CY SY SY Tons SF EA EA LF LF SY SY SY LF	\$ 66.00 \$ 18.00 \$ 25.00 \$ 114.00 \$ 110.00 \$ 392.00 \$ 17.00 \$ 30.00 \$ 259.00 \$ 31.00 \$ 38.00 \$ 38.00 \$ 38.00 \$ 38.00 \$ 125.00 \$ 17.00 \$ 125.00 \$ 1496.00 \$ 19.00 \$ 19.0		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - - - - - - - - - - - - -		* * * * * * * * * * * * * * * * * * * *	- - - - - - - - - - - - - - - - - - -
Construction Traffic Control Aggregate Base Course (135 lbs/cf) Aggregate Base Course (135 lbs/cf) Asphalt Pavement (3" thick) Asphalt Pavement (4" thick) Asphalt Pavement (6" thick) Asphalt Pavement (6" thick) Asphalt Pavement (147 lbs/cf) Raised Median, Paved Regulatory Sign/Advisory Sign Guide/Street Name Sign Epoxy Pavement Marking Thermoplastic Pavement Marking Barricade - Type 3 Delineator - Type I Curb and Gutter, Type A (6" Vertical) Curb and Gutter, Type B (Median) Curb and Gutter, Type C (Ramp) 4" Sidewalk (common areas only) 5" Sidewalk 8" Sidewalk Pedestrian Ramp Cross Pan, local (8" thick, 6' wide to include return) Cross Pan, collector (9" thick, 8' wide to include return) Curb Opening with Drainage Chase Guardrail Type 3 (W-Beam) Guardrail Type 7 (Concrete)		Tons CY SY SY Tons SF EA EA LF LF SY SY SY LF	\$ 66.00 \$ 18.00 \$ 25.00 \$ 114.00 \$ 11.00 \$ 392.00 \$ 17.00 \$ 30.00 \$ 259.00 \$ 31.00 \$ 38.00 \$ 38.00 \$ 38.00 \$ 38.00 \$ 125.00 \$ 125.00 \$ 1496.00 \$ 19.00 \$ 19.00		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - - - - - - - - - - - - -		* * * * * * * * * * * * * * * * * * * *	- - - - - - - - - - - - - - - - - - -
Construction Traffic Control Aggregate Base Course (135 lbs/cf) Aggregate Base Course (135 lbs/cf) Asphalt Pavement (3" thick) Asphalt Pavement (6" thick) Asphalt Pavement (6" thick) Asphalt Pavement (147 lbs/cf)" thick Raised Median, Paved Regulatory Sign/Advisory Sign Guide/Street Name Sign Epoxy Pavement Marking Barricade - Type 3 Delineator - Type 1 Curb and Gutter, Type A (6" Vertical) Curb and Gutter, Type B (Median) Curb and Gutter, Type C (Ramp) 4" Sidewalk (common areas only) 5" Sidewalk 6" Sidewalk 8" Sidewalk Pedestrian Ramp Cross Pan, local (6" thick, 6' wide to include return) Curb Opening with Drainage Chase Guardrail Type 3 (W-Beam) Guardrail Type 7 (Concrete) Guardrail End Anchorage		Tons CY SY SY SY Tons SF EA EA SF EA LF	\$ 66.00 \$ 18.00 \$ 38.00 \$ 114.00 \$ 114.00 \$ 392.00 \$ 17.00 \$ 30.00 \$ 38.00 \$ 38.00 \$ 38.00 \$ 38.00 \$ 125.00 \$ 125.00 \$ 1,496.00 \$ 19.00 \$ 19.00 \$ 19.00 \$ 19.00 \$ 19.00 \$ 19.00 \$ 2,731.00		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - - - - - - - - - - - - -		* * * * * * * * * * * * * * * * * * * *	- - - - - - - - - - - - - - - - - - -
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Construction Traffic Control Aggregate Base Course (135 lbs/cf) Aggregate Base Course (135 lbs/cf) Asphalt Pavement (3" thick) Asphalt Pavement (4" thick) Asphalt Pavement (6" thick) Asphalt Pavement (6" thick) Asphalt Pavement (147 lbs/cf) Raised Median, Paved Regulatory Sign/Advisory Sign Guide/Street Name Sign Epoxy Pavement Marking Barricade - Type 3 Delineator - Type I Curb and Gutter, Type A (6" Vertical) Curb and Gutter, Type B (Median) Curb and Gutter, Type C (Ramp) 4" Sidewalk (common areas only) 5" Sidewalk 8" Sidewalk Pedestrian Ramp Cross Pan, local (8" thick, 6' wide to include return) Cross Pan, collector (9" thick, 8' wide to include return) Curb Opening with Drainage Chase Guardrail Type 3 (W-Beam) Guardrail Type 7 (Concrete) Guardrail Impact Attenuator Sound Barrier Fence (CMU block, 6' high) Sound Barrier Fence (panels, 6' high)		Tons CY SY SY SY Tons SF EA EA LF LF LF SY SY SY LF LF LF EA LF	\$ 66.00 \$ 18.00 \$ 38.00 \$ 114.00 \$ 392.00 \$ 17.00 \$ 30.00 \$ 259.00 \$ 38.00 \$ 38.00 \$ 38.00 \$ 38.00 \$ 14.00 \$ 38.00 \$ 1.00 \$ 1.25.00 \$ 1.25.00 \$ 1.496.00 \$ 1.926.00 \$		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$			* * * * * * * * * * * * * * * * * * * *	- - - - - - - - - - - - - - - - - - -
Construction Traffic Control Aggregate Base Course (135 lbs/cf) Aggregate Base Course (135 lbs/cf) Asphalt Pavement (3" thick) Asphalt Pavement (4" thick) Asphalt Pavement (6" thick) Asphalt Pavement (6" thick) Asphalt Pavement (147 lbs/cf) Raised Median, Paved Regulatory Sign/Advisory Sign Guide/Street Name Sign Epoxy Pavement Marking Thermoplastic Pavement Marking Barricade - Type 3 Delineator - Type I Curb and Gutter, Type A (6" Vertical) Curb and Gutter, Type B (Median) Curb and Gutter, Type C (Ramp) 4" Sidewalk (common areas only) 5" Sidewalk 8" Sidewalk Pedestrian Ramp Cross Pan, local (8" thick, 6' wide to include return) Cross Pan, collector (9" thick, 8" wide to include return) Curb Opening with Drainage Chase Guardrail Type 7 (Concrete) Guardrail End Anchorage Guardrail Impact Attenuator Sound Barrier Fence (CMU block, 6' high)		Tons CY SY SY SY Tons SF EA EA SF SF EA LF LF LF LF LF LF LF SY SY SY LF	\$ 66.00 \$ 18.00 \$ 38.00 \$ 114.00 \$ 392.00 \$ 17.00 \$ 30.00 \$ 259.00 \$ 38.00 \$ 38.00 \$ 38.00 \$ 38.00 \$ 38.00 \$ 14.00 \$ 1.25.00 \$ 1.496.00 \$ 1.926.00 \$ 1.926.00		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$			* * * * * * * * * * * * * * * * * * * *	- - - - - - - - - - - - - - - - - - -

PROJECT INFORMATION								
Project Name 8812 Cliff Allen Pt - Barbarick Transfer Statio	on	Date: March 2024		PCD File No.: COM2346				

Description Quantity Units Cost	· · · · · · · · · · · · · · · · · · ·	~~~			Unit			(with Pr	e-Plat Construction)
ROADWAY MPROVEMENTS	Description	<u> </u>	Quantity	Units	Cost		Total	% Complete	Remaining
Agarpaghe Basic Course (135 backer) Agarbagh Pawement (147 backer) B72. Tons \$ 106.00 = \$ 32,708.00 \$ 92,432.00 \$ 92,432.00 \$ 92,432.00 \$ 92,432.00 \$ 92,432.00 \$ 92,432.00 \$ 37,28.00 \$ 38,00.00 \$ 37,28.00 \$ 38,00.00 \$ 37,28.00 \$ 38,00.00 \$ 37,28.00 \$ 38,00.00 \$ 37,28.00 \$ 38,00.00 \$ 37,28.00 \$ 38,00.00 \$ 37,28.00 \$ 38,00.00 \$ 37,28.00 \$ 38,00.00 \$ 37,28.00 \$ 38,00.00 \$ 37,20.00 \$ 37,20.00 \$ 37,20.00 \$ 37,20.00 \$ 37,20.00 \$ 37,20.00 \$ 37	SECTION 3 - COMMON DEVELOPM	MENT IMPROV	'EMENTS (Pri	vate or Di	strict and N	OT Maint	ained by EPC)**		
Asphal Pavement (147 bbscf)	ROADWAY IMPROVEMENTS	7	Quantity	<u>Units</u>	Unit Cost		<u>Total</u>	% Complete	Remaining
Epoxy Pavement Marking	Aggregate Base Course (135 lbs/cf)	7	962.	Tons	\$ 34.00	=	\$ 32,708.00		\$ 32,708.00
Thermoplastic Pevement Marking	Asphalt Pavement (147 lbs/cf)	7	872.	Tons	\$ 106.00	=	\$ 92,432.00		\$ 92,432.00
Electrical Conduit (***)	Epoxy Pavement Marking	7	233.	SF	\$ 16.00	=	\$ 3,728.00		\$ 3,728.00
Section Sect	Thermoplastic Pavement Marking	7	12.	SF	\$ 28.00	=	\$ 336.00		\$ 336.00
MSE Block Retaining Wall (8 Max)	Electrical Conduit (1")	7	1030.	LF	\$ 20.00	=	\$ 20,600.00		\$ 20,600.00
STORM DRAIN IMPROVEMENTS (Exciption: Permanent Pond/BMP shall be iternized under Section 1)	Electrical Conduit (2")		910	LF	\$ 20.00	=	\$ 18,200,00		\$ 18,200.00
STORM DRANI MPROVEMENTS Exception: Permanent Pond/BMP shall be itemized under Section 1)	MSE Block Retaining Wall (8' Max)	7	1,400	SF	\$ 50.00	=	\$ 70,000.00		\$ 70,000.00
Section Sect	Concrete Retaining Wall (8' Max)	7	985.	SF	\$ 80.00	=	\$ 78,800.00		\$ 78,800.00
Storm Sewer Manhole (Box Base)	STORM DRAIN IMPROVEMENTS	(Exception	: Permanent Pon	d/BMP sha ll t	e itemized und	er Section 1)			
4" Perforated PVC Pipe 941. LF \$ 70,00 = \$ 65,870,00 \$ 65,870,00 \$ 65,870,00 \$ 65,870,00 \$ 67,870,00	Grated Inlet (CDOT Type C) (Depth <5')	7	5.	EA	\$ 5,611.00	=	\$ 28,055.00		\$ 28,055.00
6" PVC Pipe	Storm Sewer Manhole (Box Base)	7	2.	EA	\$ 14,061.00	=	\$ 28,122.00		\$ 28,122.00
24" PVC Pipe	4" Perforated PVC Pipe)	941.	LF	\$ 70,00	=	\$ 65,870,00		\$ 65,870.00
24" RCP Pipe	6" PVC Pipe)	205	LF	\$ 75.00	=	\$ 15,375.00		\$ 15,375.00
30" PVC Pipe	24" PVC Pipe)	371	LF	\$ 80.00	=	\$ 29,680.00		\$ 29,680.00
4' Concrete Drainage Pan (6", Fibermesh Reinforced) 30" PVC FES 1. EA \$800.00 = \$84,800.00 \$800.00 \$800.00 \$800.00 \$90.00	24" RCP Pipe)	71	LF	\$ 98.00		\$ 6,958.00		\$ 6,958.00
Section Sect	30" PVC Pipe)	70	LF	\$ 90.00		\$ 6,300.00		\$ 6,300.00
Riprap, Type M (12" Depth)	4' Concrete Drainage Pan (6", Fibermesh R	einforced)	848	LF	\$ 100.00	=	\$ 84,800.00		\$ 84,800.00
WATER SYSTEM IMPROVEMENTS Water Main Pipe (PVC), Size 8" Section 3 since they are Improvements for a single lot. LF \$ 84.00 = \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	30" PVC FES	(1.	EA	\$ 800.00	=	\$ 800.00		\$ 800.00
Water Main Pipe (PVC), Size 8" Section 3 since they are improvements for a single lot. LF \$ 98.00 = \$ - \$ - \$ - \$ \$ - \$ \$ \$	Riprap, Type M (12" Depth))	21.	Tons	\$ 97.00	=	\$ 2,037.00		\$ 2,037.00
Water Main Pipe (PVC), Size 8" Section 3 since they are improvements for a single lot. LF \$ 84.00 = \$ - \$ - \$ - \$ - \$ Gate Valves, 8" SF4	WATER SYSTEM IMPROVEMENTS	Please remove	items from						
Water Main Pipe (Ductile Iron), Size 8" Improvements for a single lot. EA \$ 98.00 = \$ \$ - \$ \$ - \$ \$ Fire Addressed \$ \$ 2,418.00 = \$ \$ - \$ \$ \$ -	Water Main Pipe (PVC), Size 8"			LF	\$ 84.00	=	\$ -		\$ -
Gate Valves, 8"	Water Main Pipe (Ductile Iron), Size 8"			LF	\$ 98.00	=	\$ -		\$ -
Water Service Line Installation, inc. tap and valves Addressed \$ 1,723.00 = \$ 3,446.00 \$ 3,446.00 \$ 3,446.00 \$ 3,446.00 \$ 3,446.00 \$ 3,446.00 \$ 3,446.00 \$ 3,446.00 \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$	Gate Valves, 8"	7	ior a onigro roa		\$ 2,418.00	=	\$ -		\$ -
Addressed	Fire Hydrant Assembly, w/ all valves)	KH Ros	nonco	\$ 8,584.00	=	\$ -		\$ -
= \$ - \$ - \$ - \$	Water Service Line Installation, inc. tap and	valves	17111769	porise	\$ 1,723.00	=	\$ 3,446.00		\$ 3,446.00
= \$ - \$ - \$ - \$	Fire Cistern Installation, complete)	Address	sed		=	\$ -		\$ -
SANITARY SEWER IMPROVEMENTS Sewer Main Pipe (PVC), Size 8")				=	\$ -		\$ -
LF \$ 84.00 = \$ - \$ - \$ - \$ Sanitary Sewer Manhole, Depth < 15 feet EA \$ 5,708.00 = \$ - \$ - \$ - \$ - \$ Sanitary Sever Line Installation, complete 1, EA \$ 1,825.00 = \$ 1,825.00	[insert items not listed but part of construction	on plans]				=	\$ -		\$ -
Sanitary Sewer Manhole, Depth < 15 feet	SANITARY SEWER IMPROVEMENTS)			,		-		
Sanitary Service Line Installation, complete Sanitary Sever Lift Station, complete EA Sanitary Sever Lift Station, complete Sanitary Sever Lift Station, complete Sever	Sewer Main Pipe (PVC), Size 8")		LF	\$ 84.00	=	\$ -		\$ -
Sanitary Sewer Lift Station, complete EA	Sanitary Sewer Manhole, Depth < 15 feet)		EA	\$ 5,708.00	=	\$ -		\$ -
= \$ - \$ - \$	Sanitary Service Line Installation, complete)	1.	EA	\$ 1,825.00	=	\$ 1,825.00		\$ 1,825.00
Insert items not listed but part of construction plans LANDSCAPING IMPROVEMENTS (For subdivision specific condition of approval, or PUD)	Sanitary Sewer Lift Station, complete)		EA		=	\$ -		\$ -
LANDSCAPING IMPROVEMENTS (For subdivision specific condition of approval, or PUD) Trees (Ponderosa Pine) 35. EA \$ 600.00 = \$ 21,000.00 \$ 21,000.00 Seeding (EPC Low Grow Mix) 50413. EA \$ 0.50 = \$ 25,206.50 \$ 25,206.50 Landscaping is not required to be included in the FAE. Please remove. = \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$		التنت				=	\$ -		\$ -
Trees (Ponderosa Pine) Seeding (EPC Low Grow Mix) Landscaping is not required to be included in the FAE. Please remove. 35. EA \$ 600.00 = \$ 21,000.00 \$ 21,000.00 EA \$ 0.50 = \$ 25,206.50 \$ 25,206.50 EA \$ 0.50 = \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	[insert items not listed but part of construction	on plans]				=	\$ -		\$ -
Seeding (EPC Low Grow Mix) Landscaping is not required to be included in the FAE. Please remove. Seeding (EPC Low Grow Mix) EA \$ 0.50 = \$ 25,206.50 \$ 25,206.50 FACTOR SEEDING SEEDING SEED SEEDING SEEDIN	LANDSCAPING IMPROVEMENTS	(Fo	or subdivision spe	cific condition	of approval, or	PUD)			
Seeding (EPC Low Grow Mix) Landscaping is not required to be included in the FAE. Please remove. Seeding (EPC Low Grow Mix) EA \$ 0.50 = \$ 25,206.50 \$ 25,206.50 FACTOR SEEDING SEEDING SEED SEEDING SEEDIN	Trees (Ponderosa Pine)		35.	EA	\$ 600.00	=	\$ 21,000.00		\$ 21,000.00
Landscaping is not required to be included in the FAE. Please remove. KH Response: = \$ \$ \$ \$ \$ \$ \$ \$ \$,		50413.	EA		=			
Please remove. = \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$		included in the	FAE.	Doors		=			
Addressed = \$ - \$			IKH	Kespo	nse:	=	+ · · · · · · · · · · · · · · · · · · ·		
"- Section 3 is not subject to defect warranty requirements of a 636.278 50 \$ 636.278 50						=			
	** - Section 3 is not subject to defect warranty requireme	ents	/ tuc				\$ 636,278.50		\$ 636,278.50

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v2_Financial Assurance Forms comments.pdf Markup Summary

Carlos (2)



Subject: Text Box Page Label: 3 Author: Carlos

Date: 3/25/2024 3:50:15 PM

Status: Color: Layer: Space: Landscaping is not required to be included in the

FAE. Please remove.



Subject: Cloud+ Page Label: 3 Author: Carlos

Date: 3/25/2024 3:50:58 PM

Status: Color: Layer: Space: Please remove items from Section 3 since they are improvements for a single lot.