SITE CONSTRUCTION DRAWINGS
STORE #2293
14201 ALPINE PHLOX ST.
PARKER, CO 80134

PROJECT TEAM

APPLICANT
KUM & GO L.C.
1459 GRAND AVE
DES MOINES, IA 50309
CONTACT: DAN GARNEAU
PH: (515) 457-6392
E: DAN.GARNEAU@KUMANDGO.COM

OWNER
CMCE LLC
7353 S ALTON WAY STE A-100
CENTENNIAL, CO 80112-2329
CONTACT: MATT JANKE
PH: 303-770-9111
E: MJANKE@E5XMANAGEMENT.COM

ARCHITECT
BRR ARCHITECTURE
8131 METCALF AVE., SUITE 300
OVERLAND PARK, KS 66204
CONTACT: ASHLEY WEBER
PH: (913) 236-3325

ENGINEERING CONSULTANT
ENTITLEMENT & ENGINEERING SOLUTIONS, INC.
3801 E. FLORIDA AVE., SUITE 425
DENVER, CO 80210
CONTACT: KRYSTA HOUTCHENS, PE
PH: (970) 380-7054
E: KRYSTA.HOUTCHENS@EES.US.COM

LANDSCAPE ARCHITECT
VALERIAN LLC
907 YUMA ST, SUITE 130
DENVER, CO 80204
CONTACT: NATHANIEL RONEY
PH: (303) 347-1200
E: NATHANIEL@VALERIANLLC.COM

TOWN OF PARKER
TOWN OF PARKER
20120 EAST MAIN STREET
PARKER, CO 80138-7334
ATTN: CARSON BYERHOF
P: (303) 805-3331

TOWN OF PARKER PLAN REVIEW
20120 E. MAINSTREET
PARKER, CO 80138
ATTN: BRIEANNA SIMON
P: (303) 805-3338

SURVEYOR
FORESIGHT WEST SURVEYING INC.
1309 S. INCA STREET
DENVER, CO 80223
ATTN: RY P. RUSK
P: (303) 504-4440

FIRE DEPARTMENT
SOUTH METRO FIRE AND RESCUE AUTHORITY
DISTRICT 45
16801 NORTHGATE DRIVE
PARKER, CO 80134
ATTN: RANDY CAPRA
P: (303) 805-3163

WATER / SANITARY SEWER
PARKER WATER AND SANITATION DISTRICT
18100 WOODMAN DRIVE
PARKER, CO 80134
ATTN: DRAYTON SANDERSON
P: (303) 841-4627
EMAIL: DSANDERSON@PWSD.ORG

GAS SERVICE
PUBLIC SERVICE COMPANY OF COLORADO
1800 LARIMER ST., SUITE 1100
DENVER, CO 80202
P: (303) 571-7511

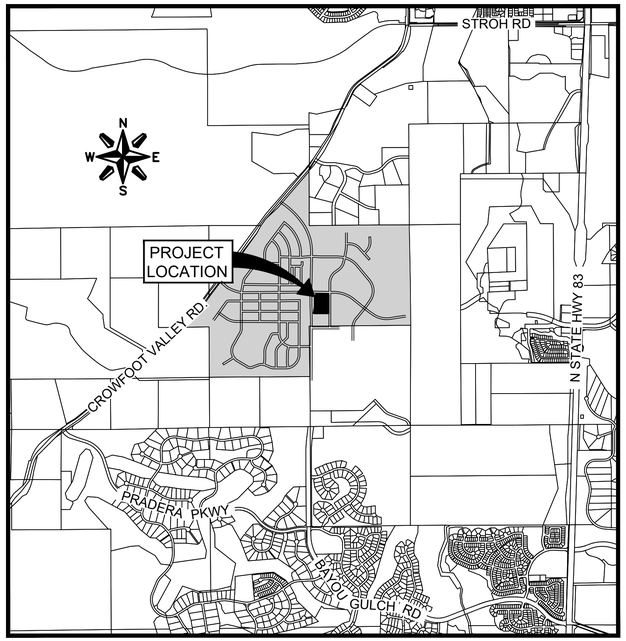
GEOTECHNICAL ENGINEER
OLSSON, INC.
3990 FOX STREET
DENVER, COLORADO, 80216
ATTN: PRESTON MILLS, PE
P: (303) 237-2072
GEOTECHNICAL EVALUATION REPORT, DATED 09/16/2022, OLSSON PROJECT NO. 022-03197

TRAFFIC ENGINEER
LSC TRANSPORTATION CONSULTANTS, INC.
1889 YORK STREET
DENVER, COLORADO 80206
ATTN: CHISTOPHER MCGRANAHAN, PE, PTOE
P: (303) 333-1105

ELECTRICAL SERVICE
CORE
DISTRICT 7
5496 N US HWY 85
SEDALIA, CO 80135
ATTN: JAMES ANEST
P: (800) 332 9540

TELEPHONE
CENTURYLINK
7759 S WHEELING CT.
ENGLEWOOD, CO 80112
ATTN: TRAVIS YOUNG
EMAIL: TRAVIS.YOUNG@LUMEN.COM

WHERE & MEANS MORE!



VICINITY MAP
SCALE: 1" = 2000'

BENCHMARK:

ELEVATIONS ARE BASED UPON A POST-PROCESSED STATIC GNSS CONNECTION MADE TO DOUGLAS COUNTY GIS POINT 1.051038 BEING A FOUND 3.25" ALLOY CAP STAMPED "DOUGLAS COUNTY - 1.051038 - SECONDARY CONTROL MONUMENT" UTILIZING GEOID18 TO MODEL THE ELLIPSOID SEPARATION AND HAVING A PUBLISHED ELEVATION OF: 6053.87 FEET (NAVD 88). SITE BENCH MARK: FWS CONTROL POINT 501 BEING A SET NO.5 REBAR WITH A 2" ALLOY CAP STAMPED "FWS CONTROL POINT" LOCATED APPROXIMATELY 144.5' SOUTH OF THE INTERSECTION OF THE CENTER-LINES OF NORTH PINERY PARKWAY AND ALPINE PHLOX STREET AND 23' WEST OF THE CENTER-LINE OF ALPINE PHLOX STREET HAVING AN ESTABLISHED ELEVATION OF 6069.33' NAVD 88.

BASIS OF BEARINGS:

THE BASIS OF BEARINGS FOR THIS SURVEY IS THE WEST LINE OF THE NORTHEAST QUARTER OF SECTION 9, TOWNSHIP 7 SOUTH, RANGE 66 WEST OF THE 6TH P.M., BEING MONUMENTED AT THE NORTH QUARTER CORNER OF SECTION 9 BY A FOUND 1" PIPE WITH A 3.25" ALLOY CAP STAMPED "SURVEY MONUMENT-1986 - 1/4 - 4/9-CC-LS 6935 -ARCHER & ASSOC." AND AT THE CENTER OF SECTION 9 BY A SET NO.6 REBAR WITH A 3.25" ALLOY CAP STAMPED "T7S R66W- C 1/4 S9 - 2022 - PLS 38226" WITH THE LINE BETWEEN ASSUMED TO BEAR NORTH 00°16'46" WEST AS RECORDED ON THE PLAT OF TRAILS AT CROWFOOT FILING NO. 9, RECEPTION NO. 20200098683.

FLOODPLAIN NOTE:

THE FLOOD ZONE CLASSIFICATION FOR THIS PROPERTY IS ZONE X WHICH IS DEFINED AS AREAS OF MINIMAL FLOOD HAZARD AS REFERENCED ON FLOOD INSURANCE RATE MAP NUMBER 08035C0183G REVISED MARCH 16, 2016:
COMMUNITY-PARKER, TOWN OF
NUMBER- 080310, PANEL 0183

LEGAL DESCRIPTION:

LOT 1, TRAILS AT CROWFOOT FILING NO. 9, 1ST AMENDMENT,
TOWN OF PARKER, COUNTY OF DOUGLAS, STATE OF COLORADO

PROJECT STATEMENT:

THE PARCEL DESIGNATED FOR THE KUM AND GO GAS AND C-STORE IMPROVEMENTS IS INCLUDED WITH THE HESS RANCH PLANNED DEVELOPMENT

CAUTION - NOTICE TO CONTRACTOR:

1. ALL UTILITY LOCATIONS SHOWN ARE BASED ON MAPS PROVIDED BY THE APPROPRIATE UTILITY COMPANY AND FIELD SURFACE EVIDENCE AT THE TIME OF SURVEY AND ARE TO BE CONSIDERED AN APPROXIMATE LOCATION ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE FIELD LOCATION OF ALL UTILITIES, PUBLIC OR PRIVATE, WHETHER SHOWN ON THE PLANS OR NOT, PRIOR TO CONSTRUCTION. REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO CONSTRUCTION.
2. WHERE A PROPOSED UTILITY CROSSES AN EXISTING UTILITY, IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF SUCH EXISTING UTILITY, EITHER THROUGH POTHOLING OR ALTERNATIVE METHOD. REPORT INFORMATION TO THE ENGINEER PRIOR TO CONSTRUCTION.
3. THE CONTRACTOR SHALL OBTAIN THE LATEST CAD FILE OF SITE IMPROVEMENTS FROM THE ENGINEER OF RECORD FOR HORIZONTAL AND VERTICAL SURVEY CONTROL PRIOR TO CONSTRUCTION. CONTRACTOR TO VERIFY WITH ENGINEER OF RECORD ANY DISCREPANCIES BETWEEN THE CAD FILES AND CONSTRUCTION PLANS PRIOR TO INSTALLATION OF PLAN IMPROVEMENTS.

811 Know what's **below.** **Call** before you dig.
CALL 811 SEVENTY-TWO HOURS PRIOR TO DIGGING, GRADING OR EXCAVATING FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

CONTRACTOR RESPONSIBLE FOR AS-BUILT DRAWINGS AS REQUIRED FOR ACCEPTANCE OF WORK FROM TOWN OF PARKER OR ANY OTHER GOVERNING AGENCY.

NOTE: CONTRACTOR SHALL REFERENCE THE GEOTECHNICAL ENGINEERING STUDY DATED SEPTEMBER 16, 2022 PREPARED BY OLSSON. THE CONTRACTOR SHALL ALSO REFERENCE THE ALTA/NSPS LAND TITLE SURVEY DATED JULY 13, 2022 PREPARED BY FORESIGHT WEST SURVEYING INC.

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SIGHT DISTANCE CERTIFICATION

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THE PROPOSED SUBDIVISION, _____, IS DESIGNED IN ACCORDANCE WITH THE TOWN OF PARKER SIGHT DISTANCE CRITERIA AND WITH AASHTO POLICY ON GEOMETRIC DESIGN OF HIGHWAY & STREETS.

_____ _____
KRYSTA HOUTCHENS, PE DATE

THE TOWN OF PARKER REVIEW CONSTITUTES GENERAL COMPLIANCE WITH THE TOWN'S STANDARDS AND APPROVED VARIANCES, SUBJECT TO THESE PLANS BEING STAMPED, SIGNED, AND DATED BY THE PROFESSIONAL ENGINEER OF RECORD. REVIEW BY THE TOWN DOES NOT CONSTITUTE APPROVAL OF THE PLAN DESIGN OR ACCURACY AND CORRECTNESS OF ENGINEERING CALCULATIONS. ERRORS IN THE DESIGN OR CALCULATIONS REMAIN THE RESPONSIBILITY OF THE REGISTERED PROFESSIONAL ENGINEER WHOSE STAMP AND SIGNATURE ARE AFFIXED TO THIS DOCUMENT. THIS REVIEW DOES NOT CONSTITUTE APPROVAL OF ANY PRIVATE ON-SITE IMPROVEMENTS WHICH MAY BE SHOWN. CONSTRUCTION CANNOT COMMENCE UNTIL ALL REQUIRED DRAINAGE/TRAFFIC REPORT(S), FINAL DEVELOPMENT PLAN(S), SPECIAL REVIEW(S), GRADING PERMIT, AND/OR OTHER PERMITS ARE COMPLETE, APPROVED AND ON FILE WITH THE TOWN OF PARKER.

_____ _____
TOWN OF PARKER, DATE
DIRECTOR OF ENGINEERING/PUBLIC WORKS

EES ENTITLEMENT AND ENGINEERING SOLUTIONS, INC.
3801 E. Florida Avenue, Suite 425
Denver, CO 80210
303-572-7997 www.ees.us.com

PRELIMINARY NOT FOR CONSTRUCTION

Kum & Go
1459 Grand Ave
Des Moines, IA 50309
P: 888-458-6646

2293 - PARKER, COLORADO
BAYOU GULCH RD AND PINERY PKWY

COVER SHEET

KG PROJECT TEAM: EES
RDM: RF
SDM: DG
CPM: BS

REVISIONS		
	DATE	REVISION DESCRIPTION
△		

DATE: 07-12-2023

SHEET NUMBER: C0.0
1 OF 43

P:\KUM & GO\CO, PARKER_2293 - PINERY AND BAYOU GULCH\08 CAD\C0\2293 - 01 - COVER SHEET.DWG

CRITERIA PLAN 04/2020

GENERAL NOTES

1. ALL WORK AND CONSTRUCTION OF THIS PROJECT ON PRIVATE PROPERTY SHALL CONFORM TO KUM & GO STANDARD SPECIFICATIONS, TOWN OF PARKER ENGINEERING STANDARDS, PARKER WATER AND SANITATION DISTRICT STANDARDS, AND THE SPECIFICATIONS/DETAILS SHOWN ON THESE PLANS.
2. ALL WORK AND CONSTRUCTION WITHIN PUBLIC RIGHT OF WAY AND EASEMENTS SHALL CONFORM TO THE TECHNICAL SPECIFICATIONS, STANDARD DETAILS, AND TOWN OF PARKER ROADWAY AND CONSTRUCTION CRITERIA MANUAL STANDARDS, AND THE GRANTOR OF THE EASEMENT AS APPLICABLE.
3. IN CASE OF A CONFLICT BETWEEN VARYING SPECIFICATIONS, THE MOST STRINGENT SHALL APPLY.
4. THE CONTRACTOR SHALL OBTAIN A COPY OF THE LATEST STANDARD SPECIFICATIONS AND DETAILS OF ALL AGENCIES EXERCISING JURISDICTION OVER THIS PROJECT, WHICH ARE INCORPORATED BY REFERENCE ON THESE PLANS. A COPY OF THESE SPECIFICATIONS AND DETAILS SHALL BE MAINTAINED ON THE JOBSITE AT ALL TIMES.
5. THE CONTRACTOR SHALL HAVE IN HIS POSSESSION AT ALL TIMES ONE (1) SIGNED COPY OF THE PLANS, STANDARDS, AND SPECIFICATIONS AS APPROVED BY THE APPROPRIATE GOVERNING AGENCY AND OWNER. THE CONTRACTOR SHALL NOT CHANGE OR DEVIATE FROM THESE PLANS WITHOUT FIRST OBTAINING WRITTEN APPROVAL FROM THE OWNER, ENGINEER, AND GOVERNING AGENCY.
6. ALL WORK SHALL CONFORM TO ALL LOCAL, STATE, AND FEDERAL APPLICABLE LAWS AND REGULATIONS.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL JOB SITE SAFETY ON THE PROJECT. THIS SHALL INCLUDE THE SAFETY OF HIS OWN PERSONNEL, SUBCONTRACTORS, ALL VISITORS TO THE SITE, AND THE GENERAL PUBLIC. ALL JOB SITE SAFETY SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS AND CODES, AND ENSURE COMPLIANCE INCLUDING, BUT NOT LIMITED TO, THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REQUIREMENTS.
8. THE CONTRACTOR SHALL CONTACT ONE CALL AT #811 A MINIMUM OF 72 HOURS (EXCLUDING WEEKENDS AND HOLIDAYS) IN ADVANCE OF ANY EXCAVATION.
9. THE LOCATIONS OF EXISTING UTILITIES AND STRUCTURES SHOWN ON THE PLANS ARE APPROXIMATE AND HAVE BEEN SHOWN FROM AVAILABLE SURVEYS AND/OR RECORDS. THERE MAY BE ADDITIONAL UTILITIES PRESENT, THE EXISTENCE OF WHICH IS NOT PRESENTLY KNOWN OR SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THEIR EXISTENCE, EXACT LOCATION/SIZE, ADEQUATELY PROTECT/SUPPORT, AND TO AVOID DAMAGE THERETO. THE CONTRACTOR SHALL INCLUDE, AT NO ADDITIONAL COST, ANY POTHOLING OR EXPLORATORY EXCAVATIONS NECESSARY TO LOCATE EXISTING UTILITIES. UTILITIES SHALL BE LOCATED SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS TO PLANS IF REVISIONS ARE NECESSARY DUE TO ACTUAL LOCATION OF EXISTING FACILITIES. DAMAGE TO UTILITIES AND STRUCTURES SHALL BE REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE GOVERNING AGENCY AND/OR THE UTILITY OWNER.
10. ALL MATERIALS SHALL BE NEW UNLESS OTHERWISE INDICATED IN THE PLANS, AND SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE OWNER OR THE OWNER'S REPRESENTATIVE.
11. LOCATIONS AND ELEVATIONS OF EXISTING IMPROVEMENTS TO BE MET (OR AVOIDED) BY THE PROPOSED WORK SHALL BE CONFIRMED BY THE CONTRACTOR THROUGH FIELD EXPLORATIONS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL REPORT TO THE OWNER ANY DISCREPANCIES BETWEEN HIS MEASUREMENTS AND THESE PLANS.
12. THE CONTRACTOR SHALL CONTACT THE OWNER IMMEDIATELY UPON DISCOVERY OF ANY ERRORS OR INCONSISTENCIES SHOWN IN THE PLANS AND/OR SPECIFICATIONS. DO NOT SCALE DRAWINGS - USE ONLY DIMENSIONS PROVIDED ON THESE PLANS.
13. ALL ESTIMATES OF QUANTITIES ARE FOR INFORMATIONAL PURPOSES ONLY. CONTRACTOR AND SUBCONTRACTORS SHALL BE RESPONSIBLE FOR DETERMINING ACTUAL QUANTITIES, AND SHALL PROVIDE ALL WORK AND MATERIALS NECESSARY TO CONSTRUCT THE PROJECT IN ITS ENTIRETY.
14. CONTRACTOR SHALL PROTECT ALL EXISTING IMPROVEMENTS NOT DESIGNATED FOR REMOVAL AND THOSE IMPROVEMENTS THAT ARE OUTSIDE THE LIMITS OF THE PROPOSED CONSTRUCTION. CONTRACTOR SHALL TAKE CARE TO AVOID DAMAGE THERETO AND SHALL PROVIDE TEMPORARY FENCING, BARRICADES, SUPPORTS, RESTRAINTS, AND/OR BRACING WHERE REQUIRED TO PROTECT EXISTING IMPROVEMENTS. DAMAGE TO EXISTING IMPROVEMENTS SHALL BE REPAIRED AND/OR REPLACED TO EQUAL OR BETTER CONDITION AT THE CONTRACTOR'S EXPENSE.
15. ALL GRADING AND CONSTRUCTION ACTIVITIES SHALL BE CONFINED TO THE OWNER'S PROPERTY, PUBLIC RIGHT-OF-WAY, PERMANENT EASEMENTS, AND TEMPORARY CONSTRUCTION EASEMENTS.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS NOT OBTAINED BY THE OWNER OR OWNER'S REPRESENTATIVES, AND PAY ALL FEES AS REQUIRED BY THE CONSTRUCTION COVERED IN THESE PLANS.
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE APPROPRIATE GOVERNING AGENCIES AND LOCAL FIRE DEPARTMENT OF ALL STREET CLOSURES AND EXISTING FIRE HYDRANTS/FIRE SUPPRESSION TAKEN OUT OF SERVICE AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.
18. THE CONTRACTOR IS RESPONSIBLE FOR ALL SITE SECURITY AND SHALL PROPERLY PROTECT AND BARRICADE THE CONSTRUCTION SITE UNTIL CONSTRUCTION IS COMPLETE. STORAGE, LOSS DUE TO THEFT, OR VANDALISM OF MATERIALS AND EQUIPMENT (SECURED OR UNSECURED) WILL BE SOLELY AT THE CONTRACTOR'S EXPENSE.
19. PRIOR TO BEGINNING THE WORK, THE CONTRACTOR SHALL OBTAIN ANY WRITTEN AGREEMENTS FOR INGRESS AND EGRESS TO THE WORK FROM ADJACENT PRIVATE PROPERTY OWNERS. ACCESS TO ANY ADJACENT PRIVATE PROPERTY SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD, DURING ALL HOURS OF OPERATION FOR THE BUSINESS LOCATED ON THOSE PARCELS.
20. FOR ANY CHANGES OR DEVIATIONS FROM THESE PLANS PROPOSED BY THE CONTRACTOR, SHOP DRAWINGS AND MATERIAL SPECIFICATIONS SHALL BE SUBMITTED TO OWNER FOR REVIEW AND APPROVAL PRIOR TO PLACEMENT OF MATERIAL.
21. CONTRACTOR MUST COORDINATE ALL CONSTRUCTION WITH THE DESIGNATED KUM & GO CONSTRUCTION PROJECT MANAGER.
22. CONTRACTOR SHALL PROTECT AND PRESERVE ALL SURVEY CONTROL AND PROPERTY MONUMENTATION. ANY DAMAGED MONUMENTS SHALL BE RESET BY A PROFESSIONAL LAND SURVEYOR LICENSED IN THE PROJECT'S STATE AT THE CONTRACTOR'S EXPENSE.
23. PRIOR TO MOVING OFF THE JOB SITE THE CONTRACTOR SHALL NOTIFY THE OWNER OR THE OWNER'S REPRESENTATIVE TO PERFORM THE FINAL WALK-THROUGH OF THE CONSTRUCTION SITE.
24. TEMPORARY POWER, TELEPHONE, AND WATER FOR THE SITE IS THE CONTRACTOR'S RESPONSIBILITY UNLESS OTHERWISE SPECIFIED.
25. CONTRACTOR SHALL REFER TO OTHER DRAWINGS ISSUED BY ARCHITECT, STRUCTURAL, ELECTRICAL, AND MECHANICAL ENGINEERS. ENSURE COORDINATION OF EXACT LOCATION AND DIMENSIONS OF BUILDINGS, EXITS, RAMPS, UTILITY ENTRANCE LOCATIONS AND GRADES AROUND THE BUILDING. IMMEDIATELY NOTIFY OWNER OF ANY DISCREPANCIES.
26. NO BELOW GRADE WORK SHALL BE BACKFILLED (INCLUDING BEDDING MATERIAL ABOVE THE SPRING LINE OF THE PIPE) UNTIL THE CONSTRUCTION HAS BEEN INSPECTED AND APPROVED FOR BACKFILLING BY THE APPROPRIATE GOVERNING AGENCY, OWNER AND/OR OWNER'S REPRESENTATIVE.
27. THE CONTRACTOR SHALL PROVIDE ALL TRAFFIC CONTROL NECESSARY TO COMPLETE THE WORK. ALL TRAFFIC CONTROL DEVICES AND METHODS OF CONTROLLING TRAFFIC THROUGH CONSTRUCTION ZONES SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MUTCD, AND ALL REVISIONS THERETO INCLUDING LOCAL AND STATE SUPPLEMENTS. ADDITIONAL WORK IN THE RIGHT-OF-WAY OR TRAFFIC CONTROL PERMITS MAY BE NECESSARY AND SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
28. IF UNANTICIPATED HAZARDOUS MATERIALS OF ANY KIND ARE ENCOUNTERED IN THE WORK, THE CONTRACTOR SHALL IMMEDIATELY CEASE ALL CONSTRUCTION OPERATIONS AND NOTIFY THE OWNER AND/OR OWNER'S REPRESENTATIVE FOR FURTHER DIRECTION.
29. ALL DEBRIS RESULTING FROM CONSTRUCTION AND DEMOLITION SHALL BE HAULED OFF SITE AND DISPOSED OF PROPERLY AND LEGALLY.
30. GENERAL CONTRACTOR SHALL COORDINATE WITH POSTMASTER TO DETERMINE MAILBOX LOCATION.

SITE PLAN NOTES

1. DIMENSIONS SHOWN ON THE SITE PLAN ARE TO FACE OF CURB LINE IN CURBED AREAS AND EXTERIOR FACE OF BUILDING, UNLESS OTHERWISE SPECIFIED.
2. A SEPARATE SIGN APPLICATION TO THE TOWN OF PARKER IS REQUIRED FOR ALL SIGNS.

DEMOLITION PLAN NOTES

1. PRIOR TO BIDDING, CONTRACTOR SHALL VISIT THE SITE TO BECOME FAMILIAR WITH THE EXISTING CONDITIONS OF THE PROJECT AREA AND ANTICIPATED DEMOLITION REQUIREMENTS.
2. CONTRACTOR TO PROTECT ALL UTILITY, PAVING, BUILDINGS, ETC. OUTSIDE OF LIMITS OF PROPOSED CONSTRUCTION DURING DEMOLITION OPERATIONS.
3. ALL EXISTING PAVEMENT ONSITE SHALL BE REMOVED UNLESS OTHERWISE NOTED.
4. CONTRACTOR SHALL REFER TO PAVING PLAN FOR DETAILS ON LIMITS OF PAVING DEMOLITION, AND EROSION CONTROL PLAN FOR PERIMETER CONTROL.
5. ALL DEMOLITION WORK ON THIS CONSTRUCTION SITE SHALL BE IN CONFORMANCE WITH LOCAL STANDARDS AND GUIDELINES.
6. THIS DEMOLITION PLAN DEPICTS THE ANTICIPATED REMOVALS NECESSARY FOR CONSTRUCTION OF THE PROJECT. MISCELLANEOUS AND MINOR REMOVALS MAY NOT BE SHOWN IN DETAIL BUT ARE CONSIDERED OBLIGATORY TO THE PROJECT. ADDITIONAL REMOVALS MAY BE NECESSARY AND THE CONTRACTOR WILL BE REQUIRED TO REMOVE ALL EXISTING IMPROVEMENTS THAT ARE IN CONFLICT WITH THE PROPOSED CONSTRUCTION AND AS OTHERWISE DIRECTED BY THE OWNER.
7. CONTRACTOR SHALL COORDINATE DEMOLITION AND/OR RELOCATION OF EXISTING UTILITIES WITH THE APPROPRIATE UTILITY OWNER AND IN ACCORDANCE WITH THE UTILITY OWNER'S REQUIREMENTS. INTERRUPTIONS IN SERVICE SHALL BE COORDINATED WITH THE UTILITY OWNER AND PROPERTY OWNER(S) IMPACTED. CONTRACTOR SHALL COORDINATE WITH THE RESPECTIVE UTILITY COMPANY FOR PORTIONS OF THE WORK TO BE PERFORMED BY UTILITY COMPANY'S FORCES, AND PROVIDE ADEQUATE NOTICE FOR SCHEDULING. THE CONTRACTOR IS RESPONSIBLE FOR PAYING ALL FEES AND CHARGES, UNLESS OTHERWISE PAID BY KUM & GO PRIOR TO CONSTRUCTION. UTILITY REMOVAL TRENCHES SHALL BE BACKFILLED WITH APPROVED MATERIAL AND MEET COMPACTION REQUIREMENTS PER THE GEOTECHNICAL REPORT.
8. THE SITE MAY CONTAIN EXISTING FOOTINGS OR OTHER UNDERGROUND STRUCTURES THAT ARE NOT DEPICTED ON THIS PLAN. CONTRACTOR SHALL TAKE CARE TO REMOVE ALL NECESSARY STRUCTURES AND BACKFILL IN CONFORMANCE WITH THE GEOTECHNICAL REPORT. BOTTOM OF EXCAVATION SUBGRADE SHALL BE INSPECTED BY THE GEOTECHNICAL TESTING ENGINEER AND APPROVED PRIOR TO ANY BACKFILL.
9. CONTRACTOR TO COMPLETELY REMOVE TREES DESIGNATED TO BE REMOVED, STUMPS, AND ROOT SYSTEMS.
10. PRIOR TO DEMOLITION WORK, EROSION CONTROL DEVICES ARE TO BE INSTALLED. EROSION CONTROL MEASURES SHALL BE ADJUSTED AS DEMOLITION AND CONSTRUCTION SEQUENCING WARRANTS.
11. ALL EXISTING UNUSED SERVICE LINES FOR WATER AND WASTEWATER SHALL BE REMOVED PER LOCAL UTILITY COMPANY STANDARDS. ALL EXISTING UNUSED GAS, TELEPHONE, FIBER OR ELECTRIC LINE/SERVICE SHALL BE COORDINATED FOR REMOVAL WITH UTILITY COMPANY.
12. THE CONTRACTOR IS RESPONSIBLE FOR DEMOLITION, REMOVAL, AND DISPOSING IN A MANNER APPROVED BY ALL GOVERNING AUTHORITIES FOR ALL STRUCTURES, PADS, WALLS, PANS, FOUNDATIONS, PAVEMENT, UTILITIES, ETC. TO BE DEMOLISHED, SUCH THAT THE IMPROVEMENTS SHOWN ON THE PLANS CAN BE CONSTRUCTED. DEMOLITION AND DISPOSAL PERMITS SHALL BE THE CONTRACTOR'S RESPONSIBILITY. ALL FACILITIES TO BE REMOVED SHALL BE UNDERCUT TO APPROVED GRADE AND BROUGHT UP TO PROPOSED GRADE WITH SUITABLE COMPACTED FILL MATERIAL PER THE GEOTECHNICAL REPORT.
13. DURING DEMOLITION OPERATIONS, THE CONTRACTOR MUST PROTECT THE PUBLIC AT ALL TIMES USING MEANS OF THEIR CHOICE.
14. CONTRACTOR SHALL PRESERVE ALL LANDSCAPING NOT TO BE REMOVED FOR CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING ALL AREAS DISTURBED BY CONSTRUCTION.
15. SAWCUTS SHALL BE TO FULL DEPTH OF EXISTING PAVEMENT. CONCRETE PAVEMENT SHALL BE REMOVED TO NEAREST EXISTING JOINT WHEN LESS THAN 5' FROM PROPOSED SAWCUT.

GRADING PLAN NOTES

1. PRIOR TO ANY GRADING OPERATIONS, ALL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE ADEQUATELY IN PLACE. REFER TO THE EROSION AND SEDIMENT CONTROL PLAN FOR REQUIREMENTS.
2. THE CONTOUR LINES, SPOT ELEVATIONS AND BUILDING FLOOR ELEVATIONS SHOWN ARE TO FINISH GRADE FOR SURFACE OF PAVEMENT, TOP OF SIDEWALKS AND CURBS, TOP OF FLOOR SLABS, ETC. REFER TO TYPICAL SECTIONS FOR MULCH, SOD, PAVING, SLAB AND AGGREGATE BASE THICKNESS TO DEDUCT FOR SUBGRADE ELEVATIONS.
3. ALL TOP OF CURB AND SIDEWALK ELEVATIONS SHALL BE 0.5' ABOVE GUTTER ELEVATIONS UNLESS OTHERWISE NOTED. IN AREAS WITH SIDEWALK ABUTTING BACK OF CURB, TOP OF CURB ELEVATIONS SHALL BE EQUAL TO SIDEWALK ELEVATIONS.
4. THE CONTRACTOR SHALL FINISH GRADE SLOPES AS SHOWN NO STEEPER THAN ONE FOOT VERTICAL IN THREE FEET HORIZONTAL.
5. CONTRACTOR SHALL GRADE LANDSCAPED AREAS TO PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDINGS AND SIDEWALKS WHEN FINISH LANDSCAPE MATERIALS ARE IN PLACE. SLOPE SHALL BE A 2% MINIMUM.
6. SITE AND BUILDING PAD PREPARATION, GRADING AND EXCAVATION PROCEDURES SHALL CONFORM TO THE RECOMMENDATIONS OUTLINED IN THE GEOTECHNICAL REPORT PREPARED BY OLSSON, SEPTEMBER 16, 2022 PROJ. NO. 022-03197.
7. IN CASE OF ANY DISCREPANCIES REGARDING EARTHWORK BETWEEN THE GEOTECHNICAL REPORT AND THE SPECIFICATIONS SHOWN IN THESE PLANS, NOTIFY THE OWNER IMMEDIATELY.
8. ALL HERBACEOUS VEGETATION AND TOPSOIL SHALL BE STRIPPED TO A MINIMUM DEPTH OF 2-6 INCHES PER GEOTECHNICAL REPORT AND REMOVED FROM SITE OR STOCKPILED FOR LATER USE IN LANDSCAPED AREAS.
9. ALL EXISTING PAVEMENT, UTILITIES, BURIED DEBRIS, RUBBLE, AND/OR STRUCTURES/FOUNDATIONS ENCOUNTERED WITHIN AREAS OF DISTURBANCE SHALL BE COMPLETELY REMOVED PRIOR TO OR DURING EARTHWORK OPERATIONS. WASTED MATERIAL SHALL NOT BE BURIED ONSITE WITHOUT THE PRIOR APPROVAL OF THE OWNER.
10. THE UPPER 24" OF ALL UTILITY TRENCHES IN UNPAVED AREAS SHALL BE BACKFILLED WITH COMPACTED COHESIVE SOILS. SEE GEOTECHNICAL REPORT FOR COMPACTION AND MOISTURE RECOMMENDATIONS.
11. FINAL PAVEMENT SUBGRADES SHALL BE PROOFROLLED IMMEDIATELY PRIOR TO THE PLACEMENT OF THE PAVEMENT TO DETECT LOCALIZED AREAS OF INSTABILITY. PROOFROLLING IS NOT RECOMMENDED IN THE AREAS OF THE NEW FUEL TANKS OR DELIVERY LINE INSTALLATION.
12. SUITABLE FILL MATERIALS SHALL BE PLACED IN THIN LIFTS OF 4 TO 8 INCHES LOOSE MEASUREMENT, UNLESS OTHERWISE ALLOWED IN THE GEOTECHNICAL REPORT.
13. IF REQUIRED, THE CONTRACTOR SHALL OBTAIN ALL LOCAL AND STATE PERMITS AND AUTHORIZATION TO DISCHARGE FROM DEWATERING ACTIVITIES.
14. THE CONTRACTOR SHALL DEWATER ALL EXCAVATIONS AND TRENCHES AS NEEDED FOR THE CONSTRUCTION OF THE PROJECT USING MEANS/METHODS OF HIS CHOICE. REFER TO THE GEOTECHNICAL REPORT FOR ANTICIPATED LEVELS OF GROUNDWATER AND DEWATERING RECOMMENDATIONS.
15. ALL EXCAVATIONS AND TRENCHES SHALL BE SLOPED/SHORED/BRACED FOR PROTECTION OF PERSONNEL IN ACCORDANCE WITH OSHA REGULATIONS AND AT THE CONTRACTOR'S FULL DISCRETION BASED ON THE SITE CONDITIONS. OPEN EXCAVATIONS SHALL BE ADEQUATELY PROTECTED AND/OR FENCED AS NECESSARY AND FOR THE SAFETY OF THE PUBLIC.

STORMWATER MANAGEMENT AND EROSION/SEDIMENT CONTROL NOTES

1. THIS PROJECT REQUIRES A PERMIT FOR STORMWATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITY FROM THE STATE'S GOVERNING AUTHORITY. CONTRACTOR TO COMMENCE WORK ON THIS SITE ONLY AFTER AN ACTIVE PERMIT NUMBER HAS BEEN OBTAINED FROM THE STATE'S GOVERNING AUTHORITY. A LOCAL CONSTRUCTION STORMWATER PERMIT IS ALSO REQUIRED BY TOWN OF PARKER.
2. THE CONTRACTOR SHALL CONTINUOUSLY PROVIDE ADEQUATE STORMWATER MANAGEMENT IN ACCORDANCE WITH THE APPROVED GRADING, EROSION AND SEDIMENT CONTROL REPORT FOR KUM & GO GAS & C-STORE #2293 NORTH PINERY PARKWAY AND NORTH BAYOU GULCH ROAD.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING THE PUBLIC STREETS, ACCESS ROUTES, AND WATERWAYS IN THE VICINITY OF THE JOB SITE CLEAN AND FREE OF ROCKS, SOIL AND DEBRIS.
4. THE CONTRACTOR SHALL INSTALL EROSION AND SEDIMENTATION CONTROL "BEST MANAGEMENT PRACTICES" (BMPS) PRIOR TO ANY SITE PREPARATION WORK (E.G., CLEARING, GRUBBING, DEMOLITION, OR EXCAVATION).
5. THE PLACEMENT OF EROSION AND SEDIMENT BMPS SHALL BE IN ACCORDANCE WITH THE EROSION AND SEDIMENT CONTROL PLAN PREPARED FOR THE PROJECT. CONTRACTOR TO ADJUST QUANTITY, LOCATION, AND TYPE OF EROSION AND SEDIMENT CONTROL BMPS AS NECESSARY FOR THE VARIOUS PHASES OF THE WORK AND AS ACTUAL CONDITIONS WARRANT. CONTRACTOR SHALL CONTINUOUSLY MODIFY THE EROSION AND SEDIMENT CONTROL PLAN WITH CURRENT BMPS IN ACCORDANCE WITH THE CONSTRUCTION STORMWATER PERMIT REQUIREMENTS. ADDITIONAL EROSION AND SEDIMENT CONTROL BMPS EMPLOYED BY THE CONTRACTOR AT HIS DISCRETION WILL NOT BE MEASURED OR PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE WORK.
6. A GROUNDWATER DISCHARGE PERMIT MAY BE REQUIRED FROM THE STATE GOVERNING AUTHORITY PRIOR TO DISCHARGE.
7. GROUNDWATER SHALL BE SAMPLED AND SENT TO AN APPROVED LABORATORY FOR TESTING PRIOR TO BEING DISCHARGED. TESTING SHALL BE IN ACCORDANCE WITH THE PERMIT FOR STORMWATER DISCHARGE.
8. APPROVED EROSION AND SEDIMENT CONTROL BMPS SHALL BE MAINTAINED AND KEPT IN GOOD REPAIR FOR THE DURATION OF THIS PROJECT. UNLESS OTHERWISE REQUIRED BY THE STATE'S CONSTRUCTION STORMWATER PERMIT, AT A MINIMUM THE CONTRACTOR SHALL INSPECT ALL BMPS EVERY 14 DAYS, AND AFTER ALL SIGNIFICANT PRECIPITATION EVENTS I.E. RAINFALL, SNOWMELT. ALL NECESSARY MAINTENANCE AND REPAIR ACTIVITIES SHALL BE COMPLETED WITHIN TWENTY-FOUR (24) HOURS AFTER DIRECTION BY THE INSPECTOR. ACCUMULATED SEDIMENT AND CONSTRUCTION DEBRIS SHALL BE REMOVED WEEKLY FROM ALL BMPS, OR AT ANY TIME THAT SEDIMENT OR CONSTRUCTION DEBRIS ADVERSELY IMPACTS THE FUNCTIONING OF THE BMPS.
9. TOPSOIL AND SUITABLE EARTHEN MATERIALS SHALL BE SEGREGATED AND STOCKPILED WITHIN THE LIMITS OF CONSTRUCTION FOR USE ON AREAS TO BE FILLED AND RE-VEGETATED. ANY AND ALL STOCKPILES SHALL BE PLACED IN AN APPROVED LOCATION AND PROTECTED FROM EROSIVE ELEMENTS USING MEASURES SPECIFIED IN THE EROSION/SEDIMENT CONTROL PLAN AND GRADING, EROSION AND SEDIMENT CONTROL REPORT FOR KUM & GO GAS & C-STORE #2293 NORTH PINERY PARKWAY AND NORTH BAYOU GULCH ROAD.
10. SOILS THAT WILL BE STOCKPILED FOR MORE THAN THIRTY (30) DAYS SHALL BE MULCHED AND SEEDED WITH A TEMPORARY OR PERMANENT GRASS COVER WITHIN FOURTEEN (14) DAYS OF STOCKPILE CONSTRUCTION.
11. ANY SETTLEMENT OR SOIL ACCUMULATIONS BEYOND THE LIMITS OF CONSTRUCTION DUE TO GRADING OR EROSION SHALL BE REPAIRED IMMEDIATELY BY THE CONTRACTOR. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR REMEDIATION OF ANY ADVERSE IMPACTS TO ADJACENT WATERWAYS, WETLANDS, PROPERTIES, ETC. RESULTING FROM WORK DONE AS PART OF THIS PROJECT.
12. A WATER SOURCE MUST BE AVAILABLE ON SITE DURING EARTHWORK OPERATIONS AND UTILIZED AS REQUIRED TO MINIMIZE DUST FROM EARTHWORK EQUIPMENT AND WIND.
13. THE CONTRACTOR MUST KEEP ALL POLLUTANTS, INCLUDING SEDIMENT, CONSTRUCTION DEBRIS, AND TRENCH BACKFILL MATERIALS FROM ENTERING THE STORM SEWER SYSTEM.
14. ALL SPILLS INCLUDING, BUT NOT LIMITED TO, PETROLEUM PRODUCTS, SOLVENTS, AND CEMENT SHALL BE CLEANED UP IMMEDIATELY. THE LOCAL CITY/COUNTY AND STATE'S GOVERNING AUTHORITY SHALL BE NOTIFIED IMMEDIATELY.
15. THE CONTRACTOR SHALL ENSURE THAT ALL LOADS OF CUT AND FILL MATERIAL IMPORTED TO OR EXPORTED FROM THE SITE SHALL BE PROPERLY COVERED TO PREVENT LOSS OF THE MATERIAL DURING TRANSPORT ON PUBLIC RIGHT-OF-WAY. ALL MATERIAL EXPORTED FROM THE SITE SHALL BE DISPOSED OF AT A SITE PERMITTED TO ACCEPT SUCH MATERIAL.
16. THE USE OF REBAR, STEEL STAKES OR STEEL FENCE POSTS FOR STAKING DOWN STRAW OR HAY BALES, OR TO SUPPORT SILT FENCING USED AS AN EROSION CONTROL MEASURE, IS PROHIBITED.
17. THE CLEANING OF CONCRETE DELIVERY TRUCK CHUTES IS RESTRICTED TO APPROVED LOCATIONS ON THE JOB SITE. THE DISCHARGE OF WATER CONTAINING WASTE CEMENT TO THE STORM SEWER SYSTEM IS PROHIBITED. ALL CONCRETE WASTE SHALL BE PROPERLY CLEANED UP AND DISPOSED OF AT AN APPROPRIATE LOCATION.
18. CONTRACTOR SHALL PROVIDE A COMPLETED "NOTICE OF TERMINATION" TO OWNER, FOR OWNERS SUBMITTAL TO THE STATE'S GOVERNING AUTHORITY ONCE THE PROJECT IS COMPLETE, ALL DISTURBED AREAS HAVE BEEN STABILIZED AND TEMPORARY BMPS HAVE BEEN REMOVED.
19. THE CONTRACTOR SHALL CLEAN OUT ALL EXISTING AND PROPOSED INLETS, PIPES AND MANHOLES OF DEBRIS AND SEDIMENTATION AT COMPLETION OF SITEWORK. THIS WORK SHALL BE DONE TO THE SATISFACTION OF THE OWNER AND LOCAL AUTHORITIES. ANY CONSTRUCTION DEBRIS OR MUD DROPPED INTO MANHOLES, INLETS, PIPES OR TRACKED ONTO EXISTING ROADWAYS SHALL BE REMOVED IMMEDIATELY BY THE CONTRACTOR. THE CONTRACTOR SHALL REPAIR ANY EXCAVATIONS OR PAVEMENT FAILURES CAUSED BY HIS CONSTRUCTION.

PAVING NOTES

1. ALL PAVING WORK AND SUBGRADE PREPARATION/STABILIZATION SHALL CONFORM TO THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT, PREPARED BY OLSSON, SEPTEMBER 16, 2022 PROJ. NO. 022-03197. IN CASE OF ANY CONFLICT WITH THESE PLANS, NOTIFY OWNER IMMEDIATELY.
2. UNLESS PROVIDED FOR IN THE PLANS, CONTRACTOR SHALL DEVELOP A CONCRETE PAVEMENT JOINTING PLAN USING THE PROPOSED PAVING PLAN AND SITE CONDITIONS. JOINT LAYOUT SHALL BE IN ACCORDANCE WITH ACI 330R "GUIDE FOR THE DESIGN AND CONSTRUCTION OF CONCRETE PARKING LOTS," AND STANDARD CONSTRUCTION PRACTICES. JOINT DETAILS SHALL BE IN ACCORDANCE WITH TOWN OF PARKER ROADWAY AND CONSTRUCTION CRITERIA MANUAL STANDARDS. CONTRACTOR SHALL PROVIDE A PAVEMENT JOINTING PLAN FOR OWNER APPROVAL.
3. ALL CONCRETE PAVEMENT AND CONSTRUCTION SHALL MEET THE TOWN OF PARKER ROADWAY AND CONSTRUCTION CRITERIA MANUAL STANDARDS. CONCRETE PAVEMENT SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4000 PSI, TYPE I/II PORTLAND CEMENT (UNLESS OTHERWISE SPECIFIED IN THE GEOTECHNICAL REPORT FOR HIGHER SULFATE RESISTANCE), A SLUMP OF 4 INCHES +/- 1 INCH, AND AN AIR CONTENT OF 6% +/- 1%.
4. PAVEMENT MUST HAVE A SOLAR REFLECTANCE INDEX (SRI) OF 29 OR HIGHER.
5. ALL RADIUS DIMENSIONS SHOWN ON THE PAVING PLAN ARE TO BACK OF CURB UNLESS OTHERWISE NOTED.
6. ALL PAVEMENT MARKINGS FOR PARKING STALLS SHALL BE 4" WIDE YELLOW MARKINGS, CONFORMING TO AASHTO M248 READY MIXED YELLOW TRAFFIC PAINT.
7. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL ACCESSIBLE AREAS AND ROUTES ARE BUILT IN ACCORDANCE WITH THE PLANS AND THE "2010 ADA STANDARDS FOR ACCESSIBLE DESIGN". THE SITE MAY BE INSPECTED BY CITY PERSONNEL FOR COMPLIANCE WITH THE STANDARDS.
8. ADA ACCESSIBLE PARKING STALLS AND AISLES SHALL BE CONSTRUCTED WITH A MAXIMUM SLOPE OF 2.00% IN ANY DIRECTION. ADA ACCESSIBLE ROUTES SHALL BE CONSTRUCTED WITH A MAXIMUM CROSS SLOPE OF 2.00% AND A MAXIMUM LONGITUDINAL SLOPE OF 5.00%
9. (UNLESS RAMPS AND LANDINGS ARE PROVIDED PER ADA STANDARDS). CURB RAMPS SHALL HAVE A MAXIMUM LONGITUDINAL SLOPE OF 8.33% (12:1). ACCESSIBLE MANEUVERING AREAS AT DOORS SHALL BE CONSTRUCTED WITH A MAXIMUM 2.00% IN ANY DIRECTION. CONTRACTOR SHALL FIELD VERIFY ADA GRADES AND FORMWORK PRIOR TO PLACING ANY CONCRETE. OWNER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCY SHOWN ON THE PLANS.

UTILITY NOTES

1. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITIES AT PROPOSED POINTS OF CONNECTION AND CONFIRM EXACT LOCATIONS/SIZES OF ALL UTILITY SERVICE LINE HOOKUPS TO THE BUILDING (PER MEP PLANS) PRIOR TO UTILITIES CONSTRUCTION.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ARRANGING ONSITE MEETINGS WITH THE CITY, GOVERNING AGENCIES, AND UTILITY OWNERS PRIOR TO THE START OF ANY CONSTRUCTION OR INSTALLATION OF UTILITIES.
3. THE CONTRACTOR SHALL CONSTRUCT ALL WATER AND SANITARY SEWER SERVICE LINES AND CONNECTIONS IN ACCORDANCE WITH THE APPLICABLE STANDARDS AND SPECIFICATIONS OF THE CITY OR LOCAL UTILITY PROVIDER.
4. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING UTILITY SERVICE CONNECTIONS WITH THE APPROPRIATE UTILITY COMPANY/OWNER, AND TO OBTAIN ALL PERMITS AND PAY ALL FEES AS REQUIRED FOR SERVICE CONNECTIONS TO UTILITY MAINS.
5. UTILITY TRENCHES AND STRUCTURE EXCAVATIONS ARE TO BE SLOPED OR BRACED AND SHEETED AS NECESSARY FOR THE SAFETY OF THE WORKMEN AND THE PROTECTION OF OTHER UTILITIES IN COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REQUIREMENTS.
6. UNLESS OTHERWISE NOTED, CONTRACTOR SHALL PROVIDE TRENCHING FOR ALL UTILITY SERVICE LINES.
7. CONTRACTOR TO SET AND ADJUST ALL PROPOSED UTILITY STRUCTURES, CLEANOUTS, VALVES, METER PITS, ETC. TO FINISH GRADE. EXISTING ITEMS AFFECTED BY THE WORK SHALL BE ADJUSTED AS REQUIRED TO MATCH FINISH GRADE.
8. THE CONTRACTOR SHALL COORDINATE WATER MAIN WORK WITH THE FIRE DEPARTMENT TO ENSURE ADEQUATE FIRE PROTECTION IS CONSTANTLY AVAILABLE TO THE SITE AND ADJACENT PROPERTIES. CONTRACTOR WILL BE RESPONS

CONSTRUCTION NOTES:

1. ALL MATERIALS AND CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE LATEST EDITION OF THE COLORADO DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, THE LATEST EDITION OF THE TOWN OF PARKER ROADWAY DESIGN AND CONSTRUCTION CRITERIA MANUAL, AND THE TOWN OF PARKER STORM DRAINAGE AND ENVIRONMENTAL CRITERIA MANUAL.
2. ALL MATERIALS AND WORKMANSHIP SHALL BE SUBJECT TO INSPECTION BY THE TOWN OF PARKER PUBLIC WORKS DEPARTMENT. THE TOWN RESERVES THE RIGHT TO ACCEPT OR REJECT ANY SUCH MATERIALS AND WORKMANSHIP THAT DOES NOT CONFORM TO ITS STANDARDS AND SPECIFICATIONS.
3. A PRECONSTRUCTION MEETING SHALL BE SCHEDULED A MINIMUM OF 48 HOURS AND A MAXIMUM OF 96 HOURS PRIOR TO THE START OF CONSTRUCTION. A PRECONSTRUCTION MEETING WILL NOT BE SCHEDULED UNTIL THE GRADING PERMIT AND ALL OTHER NECESSARY PERMITS HAVE BEEN OBTAINED.
4. THE TOWN INSPECTOR SHALL BE CONTACTED A MINIMUM OF 24 HOURS PRIOR TO A NECESSARY INSPECTION. IF A TOWN INSPECTOR IS NOT AVAILABLE AFTER PROPER NOTICE OF CONSTRUCTION ACTIVITY HAS BEEN PROVIDED, THE PERMITTEE MAY COMMENCE WORK IN THE TOWN INSPECTOR'S ABSENCE. HOWEVER, THE TOWN OF PARKER RESERVES THE RIGHT TO REJECT THE IMPROVEMENT IF SUBSEQUENT TESTING REVEALS AN IMPROPER INSTALLATION.
5. LOCATION OF EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO ACTUAL CONSTRUCTION IN ACCORDANCE WITH ALL STATE AND LOCAL LAWS. THE CONTRACTOR SHALL FIELD VERIFY SIZE AND HORIZONTAL AND VERTICAL LOCATIONS OF EXISTING FACILITIES PRIOR TO CONSTRUCTION, AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
6. THE CONTRACTOR SHALL HAVE ONE (1) SIGNED COPY OF THE PLANS, APPROVED BY THE TOWN OF PARKER DIRECTOR OF ENGINEERING/PUBLIC WORKS, AND ONE (1) COPY OF THE ROADWAY DESIGN AND CONSTRUCTION CRITERIA AT THE JOB SITE AT ALL TIMES.
7. A PLAN FOR TRAFFIC CONTROL DURING CONSTRUCTION SHALL BE SUBMITTED TO THE TOWN OF PARKER FOR ACCEPTANCE WITH THE RIGHT-OF-WAY USE PERMIT APPLICATION. A PERMIT WILL NOT BE ISSUED WITHOUT AN APPROVED TRAFFIC CONTROL PLAN FOR USE DURING CONSTRUCTION.
8. ALL TRENCHES SHALL BE ADEQUATELY SUPPORTED AND THE SAFETY OF WORKERS PROVIDED FOR AS REQUIRED BY THE MOST RECENT OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) "SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION."
9. COMPACTION OF ALL TRENCHES MUST BE ATTAINED AND COMPACTION TEST RESULTS SUBMITTED TO THE DEVELOPMENT REVIEW ENGINEER IN PRELIMINARY FORM PRIOR TO PAVING AND IN FINAL FORM PRIOR TO PROBATIONARY ACCEPTANCE.
10. THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTING AND MAINTAINING EROSION AND SEDIMENT CONTROL MEASURES AT ALL TIMES DURING CONSTRUCTION. THE PLAN MAY BE MODIFIED AS FIELD CONDITIONS WARRANT WITH APPROVAL FROM THE TOWN OF PARKER PUBLIC WORKS DEPARTMENT.
11. THE CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN PROPER TRAFFIC CONTROL DEVICES UNTIL THE SITE IS OPEN TO TRAFFIC. THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN TO THE TOWN OF PARKER PUBLIC WORKS DEPARTMENT FOR APPROVAL PRIOR TO CONSTRUCTION.
12. PLANS ARE APPROVED FOR PERIOD OF 1 (ONE) YEAR FROM THE DATE SHOWN ON THE TOWN OF PARKER SIGNATURE BLOCK. PLANS SHALL BE RESUBMITTED TO THE TOWN FOR APPROVAL AFTER 1 YEAR. THE COST OF THE PLAN RE-REVIEW AND RE-ACCEPTANCE WILL BE CHARGED BACK TO THE DEVELOPER INCLUDING ALL TIME AND EXPENSES OF THE TOWN OF PARKER PUBLIC WORKS DEPARTMENT.
13. REPAIR OF ANY DAMAGE TO EXISTING IMPROVEMENTS OR LANDSCAPING IS THE RESPONSIBILITY OF THE CONTRACTOR. SUCH RESTORATION MAY BE REQUIRED TO BE COMPLETED PRIOR TO ACCEPTANCE OF COMPLETED IMPROVEMENTS.
14. ALL DAMAGED EXISTING CURB, GUTTER, AND SIDEWALK SHALL BE REPAIRED PRIOR TO ACCEPTANCE OF COMPLETED IMPROVEMENTS.
15. ALL CONSTRUCTION ACTIVITIES MUST COMPLY WITH THE STATE OF COLORADO PERMITTING PROCESS FOR "STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY." FOR INFORMATION, PLEASE CONTACT COLORADO DEPARTMENT OF HEATH, WATER QUALITY CONTROL DIVISION, WQCD-PE-B2, 4300 CHERRY DRIVE SOUTH, DENVER, COLORADO 80222-1530. ATTENTION: PERMITS AND ENFORCEMENT SECTION. PHONE (303) 692-3500.
16. IF DEWATERING IS REQUIRED, A STATE CONSTRUCTION DEWATERING DISCHARGE PERMIT IS REQUIRED FOR DISCHARGES TO A STORM SEWER, CHANNEL, IRRIGATION DITCH, ANY STREET THAT IS TRIBUTARY TO THE AFOREMENTIONED FACILITIES, OR ANY WATER OF THE UNITED STATES.
17. ALL REFERENCES TO BOOKS, PAGES, MAPS, AND RECEPTION NUMBER ARE PUBLIC DOCUMENTS ON FILE WITH THE COUNTY CLERK AND RECORDER'S OFFICE.

ROADWAY NOTES:

1. PAVING SHALL NOT COMMENCE UNTIL A SOILS REPORT AND PAVEMENT DESIGN IS APPROVED BY THE TOWN OF PARKER AND SUBGRADE COMPACTION TESTS ARE SUBMITTED TO AND APPROVED BY THE TOWN INSPECTOR.
2. STANDARD TOWN OF PARKER CURB RAMPS ARE TO BE CONSTRUCTED AT ALL CURB RETURNS AND AT ALL "T" INTERSECTIONS IN ACCORDANCE WITH THE LATEST TOWN OF PARKER STANDARDS
3. ALL STATIONING IS BASED ON CENTERLINE OF ROADWAYS UNLESS OTHERWISE NOTED.
4. ALL ELEVATIONS ARE ON USGS DATUM WITH DATE. RANGE POINT OR MONUMENT SHALL BE SHOWN ON THE CONSTRUCTION PLANS.
5. EXCEPT WHERE OTHERWISE PROVIDED FOR IN THESE PLANS AND SPECIFICATIONS, THE COLORADO DEPARTMENT OF HIGHWAYS STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, THE COLORADO DEPARTMENT OF HIGHWAYS M AND S STANDARDS, AND THE TOWN OF PARKER ROADWAY DESIGN AND CONSTRUCTION CRITERIA MANUAL, LATEST EDITION, SHALL APPLY.

STORM DRAINAGE INFRASTRUCTURE NOTES:

1. ALL STORM DRAINAGE IMPROVEMENTS ARE SUBJECT TO COMPLIANCE WITH THE COLORADO DEPARTMENT OF TRANSPORTATION (CDOT) CURRENT EDITION OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, M & S STANDARDS, AND ALL STANDARD SPECIAL PROVISIONS CURRENTLY USED BY CDOT, WITH THE MODIFICATIONS SET FORTH IN THE TOWN OF PARKER'S STORM DRAINAGE AND ENVIRONMENTAL CRITERIA MANUAL (SDECM), AS AMENDED.
2. THE CONTRACTOR SHALL COMPLY WITH THE "COLORADO WATER QUALITY CONTROL ACT" (TITLE 25, ARTICLE 8 CRS), THE "PROTECTION OF FISHING STREAMS" TITLE 33, ARTICLE 5, CRS), THE "CLEAN WATER ACT" (33 USC 1344), CHERRY CREEK RESERVOIR CONTROL REGULATION NO. 72" (5 CCR 1002-72), THE REGULATION PROMULGATED, CERTIFICATION OR PERMITS ISSUES, AND THE REQUIREMENTS PRESENTED IN THE SDECM REVISION TO SECTION 107 AND THE CONSTRUCTION BMP PLAN. IN THE EVENT OF CONFLICTS BETWEEN THESE REQUIREMENTS AND WATER QUALITY CONTROL LAWS, RULES, OR REGULATIONS OF OTHER FEDERAL, OR STATE AGENCIES, THE MORE RESTRICTIVE LAWS, RULES, OR REGULATIONS SHALL APPLY.
3. INSPECTIONS: CONSTRUCTION SHALL NOT BEGIN UNTIL A GRADING PERMIT HAS BEEN ISSUED FOR THE PROJECT. THE CONTRACTOR SHALL NOTIFY THE TOWN OF PARKER ENGINEERING DEPARTMENT (PUBLIC WORKS) TO SCHEDULE INSPECTIONS A MINIMUM OF 48 HOURS PRIOR THE CONSTRUCTION OF ALL DRAINAGE INFRASTRUCTURE (STORM SEWERS, INLETS, MANHOLES, ENERGY DISSIPATERS, RIPRAP, GROUTED BOULDERS, DETENTION POND OUTLET STRUCTURES, FOREBAYS, TRICKLE CHANNELS, ETC), FAILURE TO NOTIFY THE ENGINEERING DEPARTMENT FOR INSPECTIONS MAY RESULT IN NON-ACCEPTANCE OF THE INFRASTRUCTURE BY THE TOWN. URBAN DRAINAGE AND FLOOD CONTROL DISTRICT MUST ALSO BE NOTIFIED IN A SIMILAR MANNER FOR ALL MAINTENANCE ELIGIBLE DRAINAGE INFRASTRUCTURES (CONSULT WITH STORMWATER ENGINEERING DIVISION).
4. STRUCTURAL BACKFILL (CDOT CLASS 1) SHALL BE COMPACTED TO CONFORM TO CDOT STANDARD SPECIFICATION 203.03. STRUCTURAL BACKFILL (CDOT CLASS 2) SHALL CONFORM TO CDOT STANDARD SPECIFICATION 203.07. AT THE CONTRACTOR'S OPTION, STRUCTURAL BACKFILL (SQUEEGEE) MEETING THE GRADATION REQUIREMENTS CONTAINED IN REVISION OF SECTION 206 OF THE CDOT STANDARD SPECIFICATIONS AS PRESENTED IN THE SDECM, MAY BE SUBSTITUTED FOR STRUCTURE BACKFILL (CLASS 1) OR CLASS 2) FOR BACKFILLING OF CULVERT PIPES, STORM SEWER PIPES, MANHOLES AND INLET STRUCTURES; HOWEVER, THE TOP 2 FEET BELOW SUBGRADE ELEVATION SHALL BE THE REQUIRED EMBANKMENT MATERIAL.
5. ALL EXCAVATIONS SHALL MEET OSHA REQUIREMENTS.
6. TESTING: PROBATIONARY ACCEPTANCE OF STORM DRAINAGE IMPROVEMENTS WILL BE CONTINGENT UPON SATISFACTORY TESTING RESULTS. IN ALL CASES WHERE TESTS INDICATE COMPACTION LESS THAN THAT REQUIRED BY TOWN SPECIFICATIONS, ADDITIONAL COMPACTION AND TESTS WILL BE REQUIRED UNTIL THE SPECIFICATIONS ARE MET. FREQUENCY OF TESTING WILL BE AS FOLLOWS:
   - 1 TEST FOR SUBGRADE AND 1 TEST FOR BACKFILL AT EVERY ABOVE GROUND APPURTENANCE (MANHOLES, INLETS, ETC)
   - 1 TEST EVERY 200 LF OF MAINLINE TRENCH EVERY 1 FOOT OF BACKFILL LIFT AND WITHIN 1 FOOT FROM ALL STRUCTURES.
7. ALLOWABLE STORM SEWER CONDUIT MATERIAL WITHIN THE TOWN OF PARKER SHALL BE LIMITED TO REINFORCED CONCRETE PIPE (RCP) CONFORMING TO CDOT STANDARD SPECIFICATION 706.02.
8. ALL RCP JOINTS SHALL BE MANUFACTURED IN ACCORDANCE WITH ASTM C443. RUBBER GASKETS SHALL BE USED ON ALL PIPE JOINTS CONFORMING TO ASTM C443. ALL RCP SECTIONS SHALL BE JOINED IN SUCH A MANNER THAT THE ENDS ARE FULLY ENTERED AND THE INNER SURFACES ARE REASONABLE FLUSH. AVERAGE JOINT GAP THAT EXCEEDS ½ INCH SHALL BE FILLED WITH AN APPROVED FLEXIBLE PLASTIC SEALANT.
9. JOINT RESTRAINTS AND TOE-WALLS, CONFORMING TO CDOT M&S STANDARD PLAN NO. M-601-11 SHALL BE USED ON ALL RCP FLARED END SECTION OUTFALLS.
10. EPOXY COATED REBAR SHALL BE USED AS REINFORCING STEEL ON ALL STORM INLETS AND STRUCTURES. REFERENCE CDOT M&S STANDARD PLAN NO. M-604-10, 11, 12, AND 13.
11. CDOT CLASS D CONCRETE SHALL BE USED FOR ALL CONCRETE DRAINAGE STRUCTURES.
12. PRE-CAST INLETS AND MANHOLE BASES SHALL NOT BE USED WITHIN THE TOWN OF PARKER RIGHT-OF-WAY, WITH THE EXCEPTION OF CDOT TYPE C AND D INLETS.
13. TWO (2) MANHOLE ACCESS POINTS ARE REQUIRED ON ALL TYPE "R" CURB INLETS GREATER THAN OR EQUAL TO TEN (10) FEET IN LENGTH AS PRESENTED IN CDOT M&S STANDARD PLAN NO. M-604-12.
14. ALL GROUTING (BOULDERS, RIPRAP) SHALL BE IN ACCORDANCE WITH THE REVISION OF SECTION 506 OF THE CDOT STANDARD SPECIFICATIONS AS PRESENTED IN THE SDECM.
15. ALL BOULDERS AND RIPRAP SHALL BE SELECTED AND PLACED IN ACCORDANCE WITH THE REVISION OF SECTION 506 OF THE CDOT STANDARD SPECIFICATIONS AS PRESENTED IN THE SDECM.
16. CONTRACTOR SHALL REFER TO THE TOWN OF PARKER'S CONSTRUCTION BEST MANAGEMENT PRACTICES DETAILS AND NOTES FOR ALL REQUIREMENTS RELATING TO RE-VEGETATION, SEDIMENT AND EROSION CONTROL REQUIREMENTS FOR CONSTRUCTION ACTIVITIES.
17. PIPE BELLS SHALL NOT BE CAST INTO MANHOLE BASES OR INLETS.

SIGNAGE AND STRIPING NOTES:

1. ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MOST RECENT VERSION OF THE FEDERAL MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), COLORADO SUPPLEMENTAL MUTCD, AND THE TOWN OF PARKER ROADWAY DESIGN AND CONSTRUCTION CRITERIA MANUAL. FURTHER SPECIFICATIONS AND ILLUSTRATIONS ARE LOCATED IN THE COLORADO DEPARTMENT OF TRANSPORTATION (CDOT) M AND S STANDARDS.
2. A FIELD INSPECTION OF LOCATION AND INSTALLATION OF ALL SIGNS AND MARKINGS SHALL BE PERFORMED BY THE TOWN OF PARKER.
3. THE CONTRACTOR INSTALLING SIGNS SHALL BE RESPONSIBLE FOR THE LOCATING AND PROTECTING OF ALL UNDERGROUND UTILITIES.
4. TYPE III (LIGHTED) BARRICADES SHALL BE SET AT THE ENDS OF ROADWAYS SEPARATING FINISHED (AND/OR ACCEPTED) AND UNFINISHED CONSTRUCTION AREAS AND SHALL BE MAINTAINED BY THE CONTRACTOR/DEVELOPER. A "ROAD CLOSED AHEAD" AND "TO BE EXTENDED" WARNING SIGNS SHALL BE INSTALLED APPROPRIATELY IN ADVANCE OF THE TYPE III BARRICADES.
5. SPECIAL CARE SHALL BE TAKEN IN SIGN LOCATIONS TO ENSURE AN UNOBSTRUCTED VIEW OF EACH SIGN.
6. WHERE STOP SIGN CONTROL IS APPROPRIATE, 36 INCH STOP SIGNS SHALL BE USED FOR APPROACHES TO ANY ROADWAY THAT IS CLASSIFIED AS A COLLECTOR OR GREATER.
7. A 7 FOOT MINIMUM POST LENGTH SHALL BE MAINTAINED FROM THE BOTTOM OF THE SIGN PANEL TO THE GROUND. THIS REQUIREMENT FOR VERTICAL CLEARANCE IS FOR ALL SIGNS.
8. DELINEATION OF ROADWAYS SHALL BE AS SPECIFIED IN THE COLORADO DEPARTMENT OF TRANSPORTATION M AND S STANDARDS.
9. RAISED MEDIAN ISLAND NOSES SHALL HAVE R4-7 SIGNS AT EACH END AND A 4"X12" HIGH INTENSITY YELLOW SIGN BLANK LOCATED MIDWAY BETWEEN THE R4-7 SIGN AND FINISHED GRADE ON EACH POST.
10. SIGNAGE AND STRIPING HAS BEEN DETERMINED BY INFORMATION AVAILABLE AT THE TIME OF REVIEW. PRIOR TO THE INITIATION OF ANY WARRANTY PERIOD, THE TOWN OF PARKER RESERVES THE RIGHT TO REQUIRE MODIFICATIONS TO EXISTING, OR INSTALLATION OF, ADDITIONAL SIGNAGE AND/OR PAVEMENT MARKING IF IT IS DETERMINED THAT CONDITIONS WARRANT SUCH MODIFICATION ACCORDING TO THE MUTCD OR THE CDOT M AND S STANDARDS. ALL SIGNAGE AND STRIPING SHALL FALL UNDER THE REQUIREMENTS OF THE TWO-YEAR WARRANTY PERIOD FOR NEW CONSTRUCTION. ADDITIONALLY, ALL PAVEMENT MARKINGS SHALL NOT LIFT OR PEEL DURING THE FIRST YEAR AFTER INSTALLATION.
11. DIAMOND GRADE MATERIAL SHALL BE USED ON ALL STOP SIGNS AND OVERHEAD SIGNS. ALL OTHER ROADSIDE TRAFFIC CONTROL DEVICES SHALL USE HIGH INTENSITY GRADE SHEETING. NO FLUORESCENT YELLOW GREEN SHEETING SHALL BE USED UNLESS SPECIFICALLY APPROVED BY THE TOWN OF PARKER.
12. ALL STREET NAME SIGNS SHALL BE HIGH INTENSITY, EXTRUDED, GREEN AND WHITE BLADES. ARTERIAL AND COLLECTOR STREET NAME SIGNS SHALL BE 9 INCH BLADES AND HAVE MIXED CASE LETTERING. LOCAL STREET NAME SIGNS SHALL BE 6 INCHES BLADES WITH MIXED CASE LETTERING.
13. ALL LAYOUTS FOR INTERNALLY ILLUMINATED STREET NAME SIGNS SHALL BE SUBMITTED TO THE TOWN FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
14. ALL REMOVED SIGNS SHALL BE RETURNED TO THE TOWN OF PARKER.
15. CROSSWALKS:
    - SHALL BE CONSTRUCTED USING PREFORMED THERMO-PLASTIC OR APPROVED EQUAL.
    - SHALL BE LONGITUDINAL 2 FEET BY 10 FEET (CONTINENTAL) TYPE OR OTHER APPROVED BY THE TOWN OF PARKER.
    - SHALL LINE UP WITH HANDICAP RAMPS.
    - SHALL BE CENTERED WITHIN LANES AND PLACED ON LANE AND CURB LINES SO AS TO AVOID VEHICLE WHEEL PATHS.
16. ALL PAVEMENT MARKING MATERIAL (INCLUDING WORDS AND SYMBOLS) SHALL BE AS FOLLOWS:
    - FOR CONCRETE SURFACE:
      LONG LINE MARKINGS (CHANNELIZATION LINES, SKIPS, ETC.) SHALL BE EPOXY PAINT. OTHER PAINT MAY BE USED FOR TEMPORARY APPLICATION ONLY WHEN APPROVED BY THE TOWN OF PARKER.

      WORDS, SYMBOLS, AND CROSSWALKS/STOP BARS SHALL BE METHYL-MYTHACRALATE, PREFORMED THERMOPLASTIC (90 MIL), PREFORMED PLASTIC (90 MIL), INLAYED TAPE (STAMARK), OR AS SPECIFIED.

      (SAND OR WATER BLAST CURING COMPOUND PRIOR TO INSTALLATION OF MARKINGS.)
    - FOR ASPHALT SURFACE:
      LONG LINE MARKINGS (CHANNELIZATION LINES, SKIPS, ETC.) SHALL BE EPOXY PAINT. OTHER PAINT MAY BE USED FOR TEMPORARY APPLICATION ONLY WHEN APPROVED BY THE TOWN OF PARKER.

      WORDS, SYMBOLS, AND CROSSWALKS/STOP BARS SHALL BE HOT APPLIED THERMOPLASTIC (90 MIL), PREFORMED PLASTIC (90 MIL), INLAYED TAPE (STAMARK), METHYL-MYTHACRALATE, OR AS SPECIFIED.
17. INSPECTION AND APPROVAL OF STRIPING AND CROSSWALK LAYOUT TO BE DONE BY TOWN OF PARKER DEVELOPMENT REVIEW ENGINEER (CALL 303-840-9546) PRIOR TO APPLICATION OF FINAL STRIPING.

EES GENERAL NOTES:

1. NO WORK IS TO BEGIN UNTIL NECESSARY PERMITS HAVE BEEN OBTAINED.
2. ENTIRE INSTALLATION SHALL MEET ALL APPLICABLE CODES.
3. VERIFY ALL CONDITIONS AND DIMENSIONS ON SITE.
4. GENERAL CONTRACTOR TO COORDINATE ALL UTILITY WORK WITH THE APPROPRIATE UTILITY PROVIDER. GENERAL CONTRACTOR TO VERIFY AND FOLLOW ALL UTILITY PROVIDER REQUIREMENTS, PROCEDURES, STANDARDS AND SPECIFICATIONS.
5. GENERAL CONTRACTOR TO PROVIDE ALL EQUIPMENT AND PERSONNEL REQUIRED FOR FINAL CHECKOUT OF ALL FACILITIES BY OWNER'S REPRESENTATIVE.
6. GENERAL CONTRACTOR TO PERFORM GENERAL YARD AND BUILDING CLEAN-UP AT THE COMPLETION OF WORK.
7. ALL PUBLIC IMPROVEMENTS SHALL BE IN ACCORDANCE WITH THE TOWN STANDARDS AND SPECIFICATIONS, LATEST REVISION THEREOF. IT IS RECOMMENDED THAT THE CONTRACTOR OBTAIN A COPY OF THESE MANUALS FROM THE TOWN FOR REFERENCE DURING ALL SITE CONSTRUCTION.
8. THE STANDARDS AND SPECIFICATIONS SHALL GOVERN SHOULD A DISCREPANCY ARISE BETWEEN THE STANDARDS AND SPECIFICATIONS AND THE PLANS. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES.
9. ALL ASPHALT CUTS FOR UTILITIES AND PAVEMENT WITHIN PUBLIC RIGHT OF WAYS SHALL BE IN ACCORDANCE WITH THE TOWN OF PARKER STANDARDS AND SPECIFICATIONS.
10. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE ACTUAL LOCATION AND ELEVATION OF EXISTING UTILITIES WHICH MAY BE IN CONFLICT WITH THE PROPOSED CONSTRUCTION. IF A CONFLICT DOES EXIST, THE CONTRACTOR SHALL STOP WORK IMMEDIATELY AND NOTIFY ENGINEER IMMEDIATELY.
11. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY ALL UTILITIES WHEN CONSTRUCTION WORK BEGINS IN THE VICINITY OF ANY UTILITY LINES AND TO ARRANGE FOR A REPRESENTATIVE OF THE UTILITY TO BE PRESENT IF THE CONTRACTOR'S OPERATIONS ARE IN CLOSE PROXIMITY TO ANY LINES IN THEIR EXISTING OR RELOCATED POSITION WHICH COULD CREATE A HAZARDOUS CONDITION.
12. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL INSPECTION AND TESTING REQUIRED FOR APPROVAL OF WORK.
13. NOTES LOCATED ON ANY SHEET IN THE SET ARE APPLICABLE TO ENTIRE SET.

CONTRACTOR RESPONSIBLE FOR AS-BUILT DRAWINGS AS REQUIRED FOR ACCEPTANCE OF WORK FROM TOWN OF PARKER, COLORADO, OR ANY OTHER GOVERNING AGENCY.

THE OWNER/CONTRACTOR MUST OBTAIN A C.D.P.S. STORM WATER DISCHARGE PERMIT FROM THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT, IF REQUIRED.

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TOWN OF PARKER, DIRECTOR OF ENGINEERING/PUBLIC WORKS — DATE

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Denver, CO 80210
303-572-7997 www.ees.us.com

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Des Moines, IA 50309
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2293 - PARKER, COLORADO
BAYOU GULCH RD AND PINERY PKWY
GENERAL NOTES - TOWN OF PARKER

KG PROJECT TEAM: EES
RDM: RF
SDM: DG
CPM: BS

REVISIONS

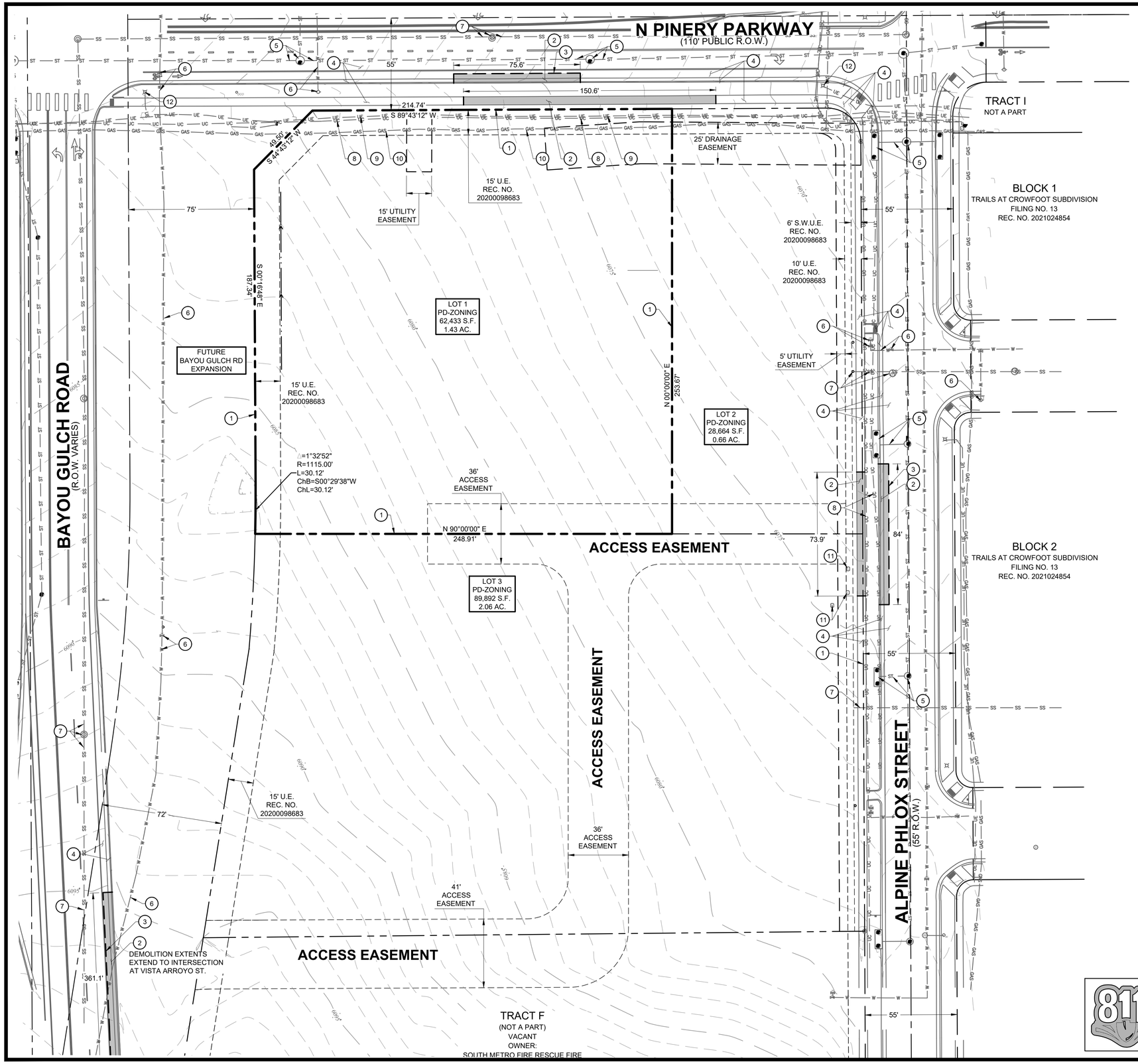
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CRITERIA PLAN 04/2020



LEGEND

- PROPERTY BOUNDARY
- EASEMENT
- EXISTING CURB AND GUTTER
- EXISTING MINOR CONTOUR
- EXISTING MAJOR CONTOUR
- EXISTING FIRE HYDRANT
- EXISTING WATER MAIN GATE
- EXISTING SANITARY/STORM MANHOLE
- EXISTING STORM SEWER
- EXISTING STORM INLET
- EXISTING GAS LINE
- EXISTING COMMUNICATIONS LINE
- EXISTING ELECTRIC LINE
- EXISTING ELECTRIC STRUCTURE
- EXISTING SANITARY LINE
- EXISTING WATER LINE
- EXISTING TO BE REMOVED

EXISTING CONDITION & DEMOLITION SCHEDULE:

1. PROPERTY LINE

EXISTING TO BE REMOVED

2. EXISTING CURB AND GUTTER, SIDEWALK AND ASPHALT.
3. SAWCUT LINE, 3' FROM CURB LIP

EXISTING TO REMAIN

4. ASPHALT / CONCRETE CURB AND GUTTER / SIDEWALK / ADA RAMP
5. STORM SEWER INLET / MAIN LINE / MANHOLE
6. FIRE HYDRANT / WATER MAIN / WATER VALVE
7. SANITARY MANHOLE/STRUCTURE. PROTECT IN PLACE. VERIFY RIM ELEVATION.
8. COMMUNICATIONS LINE
9. ELECTRIC LINE
10. GAS LINE
11. IRRIGATION CONTROL BOX
12. STREET LIGHT POLE

NOTE: ALL OTHER UTILITIES AND UTILITY BOXES THAT ARE NOT CALLED OUT TO BE REMOVED, OR RELOCATED, ARE TO REMAIN.

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2293 - PARKER, COLORADO
BAYOU GULCH RD AND PINERY PKWY

EXISTING CONDITIONS
AND DEMOLITION PLAN

KG PROJECT TEAM: EES
RDM: RF
SDM: DG
CPM: BS

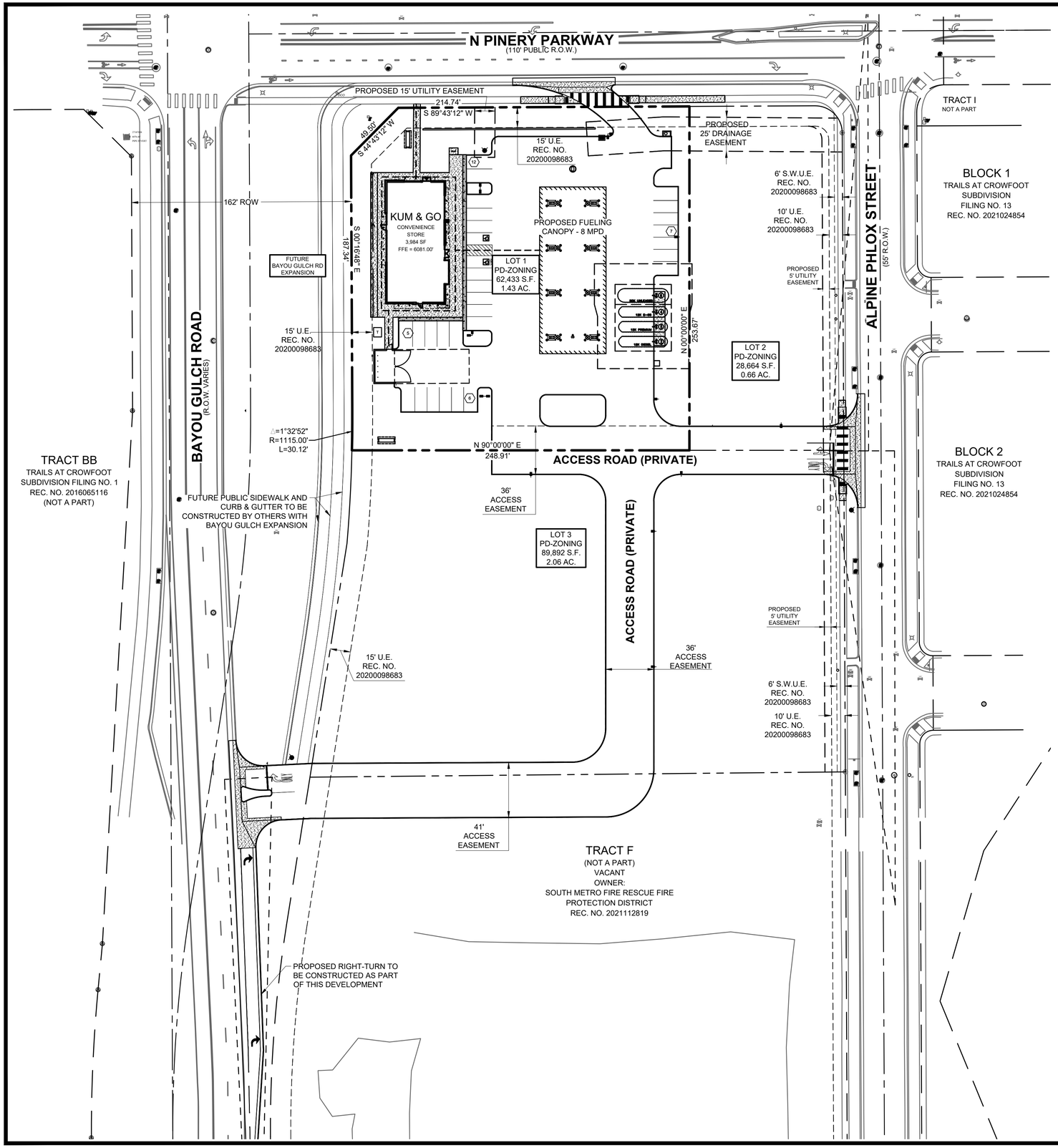
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CRITERIA PLAN 04/2020



N

SCALE IN FEET
0 40 80

IF BAR DOES NOT MEASURE
1 INCH THEN DRAWING IS
NOT TO SCALE

SITE PLAN LEGEND

- PROPERTY BOUNDARY
- EXISTING EASEMENT
- EXISTING CURB & GUTTER
- PROPOSED INTEGRAL CURB
- PROPOSED BUILDING
- PROPOSED ACCESSIBLE ROUTE
- PROPOSED CONCRETE WALK
- PROPOSED COLORED CONCRETE
- EXISTING STORM SEWER MANHOLE/INLET
- PROPOSED STORM SEWER MANHOLE/INLET
- EXISTING STREET LIGHTING
- EXISTING FIRE HYDRANT
- EXISTING SIGNAGE
- PROPOSED SITE LIGHTING
- 13 PROPOSED PARKING COUNT

GENERAL NOTES:

1. ALL ITEMS IN SCHEDULE ARE FINAL UNLESS NOTED OTHERWISE.
2. ALL EXISTING UTILITIES TO REMAIN UNLESS NOTED OTHERWISE.
3. ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH STANDARD SPECIFICATIONS OF ALL GOVERNING JURISDICTIONS AS APPLICABLE.
4. EMERGENCY AND SERVICE TRUCKS WILL MANEUVER THROUGH DRIVE AISLES IN A ONE-WAY TRAFFIC MOVEMENT.
5. CARS/TRUCKS WILL MANEUVER AROUND BUILDING DRIVE AISLES IN A TWO-WAY TRAFFIC MOVEMENT UNLESS OTHERWISE NOTED FOR SPECIFIC DRIVES.
6. HANDICAP PARKING AREAS PROVIDED PER TOWN STANDARDS AND SHALL COMPLY WITH REQUIREMENTS OF THE CURRENT, ADOPTED UNIFORM BUILDING CODE.
7. CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR PRECISE BUILDING DIMENSIONS, SERVICE AREA, DIMENSIONS, AND ELEVATIONS.
8. THE DISPOSAL OF DEMOLISHED ITEMS SHALL COMPLY TO ALL STATE AND LOCAL REQUIREMENTS.
9. MECHANICAL UNITS, DUMPSTERS AND TRASH COMPACTORS SHALL BE SCREENED IN ACCORDANCE WITH THE TOWN LAND DEVELOPMENT ORDINANCE.
10. ALL SIGNAGE SHALL BE BY SEPARATE PERMIT THROUGH THE TOWN. ALL SIGNS SHALL BE INSTALLED IN ACCORDANCE WITH THE LAND DEVELOPMENT ORDINANCE.
11. ALL ACCESSIBLE RAMPS SHALL HAVE A MAXIMUM SLOPE OF 12:1.
12. SIDEWALKS SHALL NOT EXCEED 2% CROSS SLOPE.
13. ALL DIMENSIONS ARE FLOWLINE TO FLOWLINE UNLESS OTHERWISE NOTED.
14. ALL PARKING LOT STRIPING SHALL BE WHITE.
15. THE CONTRACTOR SHALL OBTAIN THE LATEST CAD FILE OF SITE IMPROVEMENTS FROM THE ENGINEER OF RECORD FOR HORIZONTAL AND VERTICAL SURVEY CONTROL PRIOR TO CONSTRUCTION. CONTRACTOR TO VERIFY WITH ENGINEER OF RECORD ANY DISCREPANCIES BETWEEN THE CAD FILES AND CONSTRUCTION PLANS PRIOR TO INSTALLATION OF PLAN IMPROVEMENTS.

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2293 - PARKER, COLORADO
BAYOU GULCH RD AND PINERY PKWY

OVERALL SITE PLAN

KG PROJECT TEAM: EES
RDM: RF
SDM: DG
CPM: BS

REVISIONS

DATE	REVISION DESCRIPTION

DATE: 07-12-2023

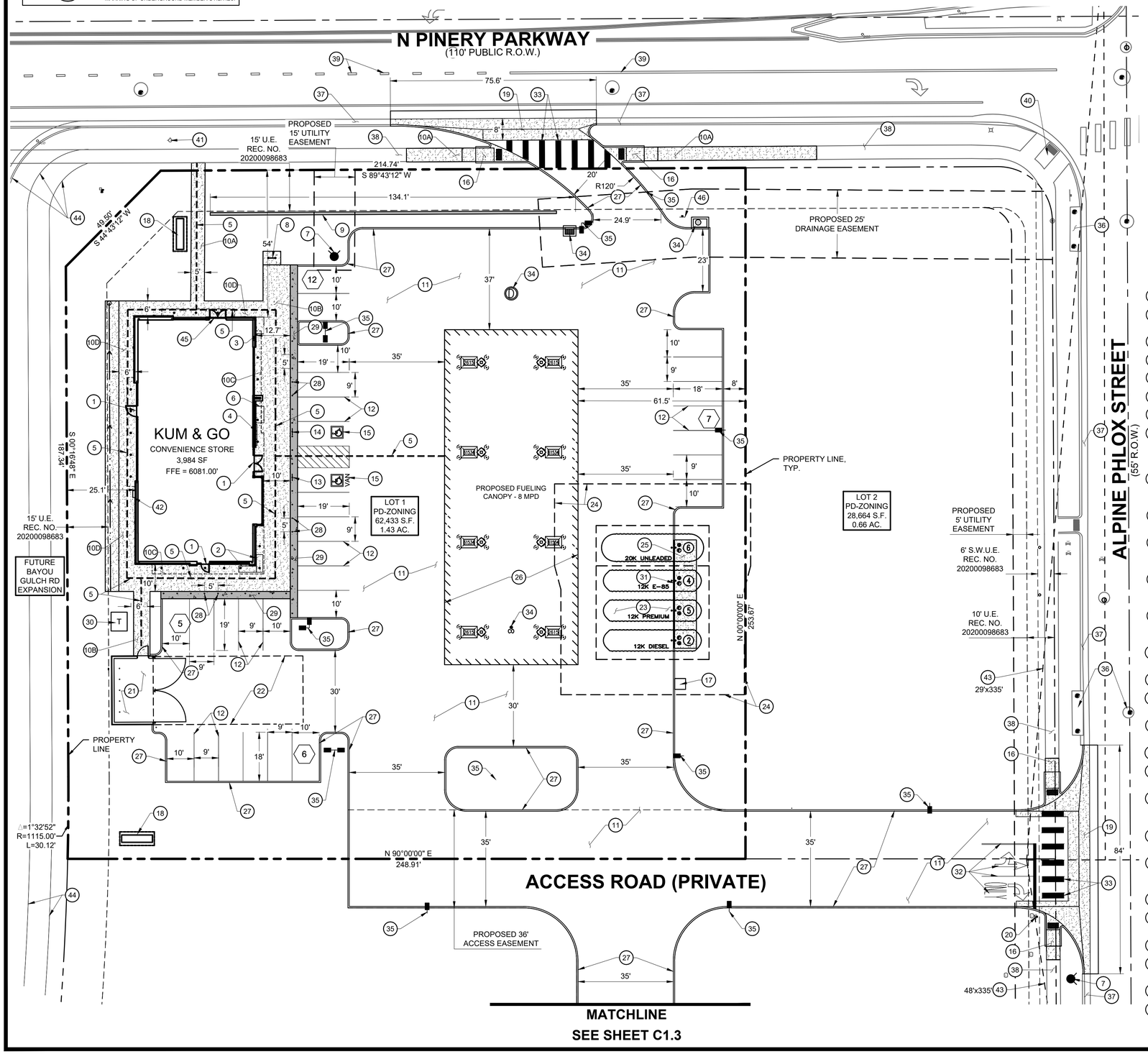
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CRITERIA PLAN 04/2020

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N

SCALE IN FEET
0 20 40

IF BAR DOES NOT MEASURE 1 INCH THEN DRAWING IS NOT TO SCALE

SITE PLAN LEGEND

- PROPERTY BOUNDARY
- EXISTING EASEMENT
- EXISTING CURB & GUTTER
- PROPOSED CURB
- PROPOSED BUILDING
- PROPOSED ACCESSIBLE ROUTE
- PROPOSED CONCRETE WALK
- PROPOSED COLORED CONCRETE
- EXISTING STORM SEWER MANHOLE/INLET
- PROPOSED STORM SEWER MANHOLE/INLET
- EXISTING STREET LIGHTING
- EXISTING FIRE HYDRANT
- EXISTING SIGNAGE
- PROPOSED SITE LIGHTING
- (13) PROPOSED PARKING COUNT

SITE SCHEDULE:

1. BUILDING ENTRY, REFER TO ARCHITECTURAL PLANS.
2. PROPANE CAGE (9' X 9', 4" CONCRETE PAD. 1.5% SLOPE AWAY FROM SIDE WALL OF BUILDING.
3. MISCELLANEOUS MERCHANDISE.
4. FIREWOOD.
5. ADA ROUTE.
6. ICE MERCHANDISER.
7. FIRE HYDRANT.
8. PROPOSED BOLLARD BIKE RACK ON 5.0' x 6.5' x 4" THICK CONCRETE PAD (5 BIKE SPACES PROVIDED).REFER TO DETAIL ON SHEET C5.1 FOR MORE INFORMATION.
9. LANDSCAPE SCREEN HEDGE PER TOWN OF PARKER STANDARDS. SEE LANDSCAPE PLANS FOR MORE INFORMATION.
10A. 4" CONCRETE SITE SIDEWALK. (REFERENCE ARCHITECTURAL DRAWINGS FOR CONTROL JOINT PLAN).
10B. 4" CONCRETE SITE SIDEWALK, 1.5% MAX. CROSS SLOPE. (REFERENCE ARCHITECTURAL DRAWINGS FOR CONTROL JOINT PLAN).
10C. BUILDING CONCRETE SIDEWALK, 1.5% MAX. CROSS SLOPE. (REFERENCE ARCHITECTURAL DRAWINGS FOR CONTROL JOINT PLAN).
10D. BUILDING CONCRETE SIDEWALK ADJACENT TO LANDSCAPE, 1.5% MAX. CROSS SLOPE. (REFERENCE ARCHITECTURAL DRAWINGS FOR CONTROL JOINT PLAN).
11. STANDARD DUTY CONCRETE PAVEMENT. (REFERENCE GEOTECHNICAL ENGINEERING REPORT)
12. 4" WIDE WHITE PAVEMENT MARKING, TYP.
13. BOLLARD MOUNTED ADA VAN PARKING SIGN. REFER TO DETAIL ON SHEET C5.1.
14. BOLLARD MOUNTED ADA PARKING SIGN. REFER TO DETAIL ON SHEET C5.1.
15. ACCESSIBLE PARKING SPACE.
16. ADA CURB RAMP PER TOWN OF PARKER DEVELOPMENT DESIGN STANDARDS. REFER TO DETAIL ON SHEET C5.6.
17. AIR MACHINE LOCATION, 4'X4' CONCRETE PAD. KEEP AT LEAST Ø20' AWAY FROM DISPENSERS AND TANK FULL PORTS. REFER TO DETAIL ON SHEET C5.1.
18. 8' TALL MONUMENT SIGN. REFER TO SEPARATE SIGNAGE PERMIT UNDER SEPARATE COVER.
19. INTERSECTION CROSS PAN LAYOUT PER TOWN OF PARKER DEVELOPMENT DESIGN STANDARDS. REFER TO DETAIL ON SHEET C5.6.
20. STOP SIGN (R1-1). REFER TO DETAIL ON SHEET C5.1.
21. 14'-8" X 24'-8" TRASH ENCLOSURE. (REFER TO ARCHITECTURAL PLANS).
22. 55'X25' MINIMUM GARBAGE TRUCK CLEAR SPACE.
23. UNDERGROUND FUEL STORAGE TANKS. (REFER TO PETROLEUM PLANS).
24. TANK OVERDIG LIMITS, WITH APPROVED BACKFILL.
25. 8' X 40' CONCRETE PAD FOR FUEL FILL LIDS. ALL FUEL FILL LIDS SHALL BE 1" ABOVE FINISH GRADE.
26. FUELING CANOPY.
27. INTEGRAL CONCRETE CURB. REFER TO DETAIL ON SHEET C5.2.
28. 4" DIAMETER BOLLARDS @ 5' O.C. REFER TO DETAIL ON SHEET C5.1.
29. BROOM FINISH CONCRETE PAVEMENT. REFER TO DETAIL ON SHEET C5.3.
30. ELECTRICAL TRANSFORMER LOCATION. SEE UTILITY PLAN UNDER SEPARATE COVER FOR MORE INFORMATION.
31. PAINT CURB ALONG FRONT OF TANKS YELLOW.
32. DRIVEWAY ENTRANCE PAVEMENT MARKINGS. REFER TO DETAIL ON SHEET C5.4.
33. 2'X10' CROSSWALK STRIPES PER TOWN OF PARKER ROADWAY DESIGN AND CONSTRUCTION CRITERIA MANUAL STANDARDS.
34. STORM INLET/MANHOLE. REFER TO SHEETS C4.3 - C4.5 FOR MORE INFORMATION.
35. APPROXIMATE LOCATION OF SITE LIGHTING. (SEE PHOTOMETRICS PLAN.)
36. EXISTING STORM SEWER MAIN / INLET / MANHOLE TO REMAIN.
37. EXISTING CURB AND GUTTER TO REMAIN.
38. EXISTING SIDEWALK TO REMAIN.
39. EXISTING ROAD PAVEMENT MARKINGS TO REMAIN.
40. EXISTING ADA RAMP.
41. EXISTING FIRE HYDRANT.
42. PROPOSED EUSERC ELECTRICAL CABINET (30"W x 30"H x 11"D).
43. PROPOSED SIGHT TRIANGLE.
44. FUTURE SIDEWALK AND CURB & GUTTER TO BE CONSTRUCTED BY OTHER WITH BAYOU GULCH EXPANSION.
45. PROPOSED FIRE RISER ROOM ENTRY.
46. DO NOT ENTER SIGN (R5-1).

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BAYOU GULCH RD AND PINERY PKWY

DETAILED SITE PLAN - NORTH

KG PROJECT TEAM: EES
RDM: RF
SDM: DG
CPM: BS

REVISIONS		
	DATE	REVISION DESCRIPTION
△		

DATE: 07-12-2023

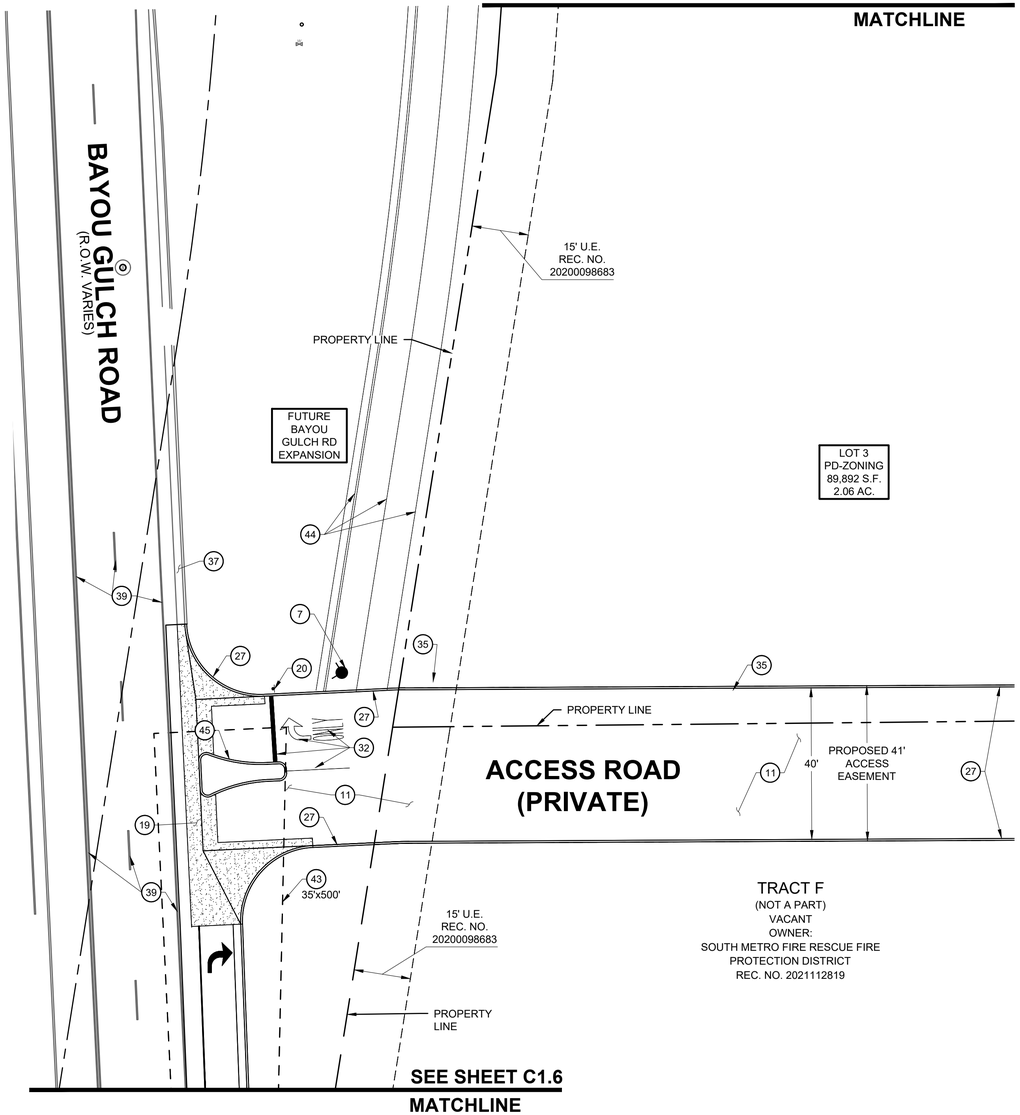
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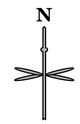
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CRITERIA PLAN 04/2020

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SITE PLAN LEGEND

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- PROPOSED STORM SEWER MANHOLE/INLET
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1. BUILDING ENTRY, REFER TO ARCHITECTURAL PLANS.
2. PROPANE CAGE (9' X 9', 4" CONCRETE PAD. 1.5% SLOPE AWAY FROM SIDE WALL OF BUILDING.
3. MISCELLANEOUS MERCHANDISE.
4. FIREWOOD.
5. ADA ROUTE.
6. ICE MERCHANDISER.
7. FIRE HYDRANT.
8. PROPOSED BOLLARD BIKE RACK ON 5.0' x 6.5' x 4" THICK CONCRETE PAD (5 BIKE SPACES PROVIDED),REFER TO DETAIL ON SHEET C5.1 FOR MORE INFORMATION.
9. 1' WIDE X 4' TALL SCREEN WALL PER TOWN OF PARKER STANDARDS. SEE ARCHITECTURAL PLANS FOR MORE INFORMATION.
10A. 4" CONCRETE SITE SIDEWALK. (REFERENCE ARCHITECTURAL DRAWINGS FOR CONTROL JOINT PLAN).
10B. 4" CONCRETE SITE SIDEWALK, 1.5% MAX. CROSS SLOPE. (REFERENCE ARCHITECTURAL DRAWINGS FOR CONTROL JOINT PLAN).
10C. BUILDING CONCRETE SIDEWALK, 1.5% MAX. CROSS SLOPE. (REFERENCE ARCHITECTURAL DRAWINGS FOR CONTROL JOINT PLAN).
10D. BUILDING CONCRETE SIDEWALK ADJACENT TO LANDSCAPE, 1.5% MAX. CROSS SLOPE. (REFERENCE ARCHITECTURAL DRAWINGS FOR CONTROL JOINT PLAN).
11. STANDARD DUTY CONCRETE PAVEMENT. (REFERENCE GEOTECHNICAL ENGINEERING REPORT)
12. 4" WIDE WHITE PAVEMENT MARKING, TYP.
13. BOLLARD MOUNTED ADA VAN PARKING SIGN. REFER TO DETAIL ON SHEET C5.1.
14. BOLLARD MOUNTED ADA PARKING SIGN. REFER TO DETAIL ON SHEET C5.1.
15. ACCESSIBLE PARKING SPACE.
16. ADA CURB RAMP PER TOWN OF PARKER DEVELOPMENT DESIGN STANDARDS. REFER TO DETAIL ON SHEET C5.6.
17. AIR MACHINE LOCATION, 4'X4' CONCRETE PAD. KEEP AT LEAST Ø20' AWAY FROM DISPENSERS AND TANK FULL PORTS. REFER TO DETAIL ON SHEET C5.1.
18. 8' TALL MONUMENT SIGN. REFER TO SEPARATE SIGNAGE PERMIT UNDER SEPARATE COVER.
19. INTERSECTION CROSS PAN LAYOUT PER TOWN OF PARKER DEVELOPMENT DESIGN STANDARDS. REFER TO DETAIL ON SHEET C5.6.
20. STOP SIGN (R1-1). REFER TO DETAIL ON SHEET C5.1.
21. 14'-8" X 24'-8" TRASH ENCLOSURE. (REFER TO ARCHITECTURAL PLANS).
22. 55'X25' MINIMUM GARBAGE TRUCK CLEAR SPACE.
23. UNDERGROUND FUEL STORAGE TANKS. (REFER TO PETROLEUM PLANS).
24. TANK OVERDIG LIMITS, WITH APPROVED BACKFILL.
25. 8' X 40' CONCRETE PAD FOR FUEL FILL LIDS. ALL FUEL FILL LIDS SHALL BE 1" ABOVE FINISH GRADE.
26. FUELING CANOPY.
27. INTEGRAL CONCRETE CURB. REFER TO DETAIL ON SHEET C5.2.
28. 4" DIAMETER BOLLARDS @ 5' O.C. REFER TO DETAIL ON SHEET C5.1.
29. BROOM FINISH CONCRETE PAVEMENT. REFER TO DETAIL ON SHEET C5.3.
30. ELECTRICAL TRANSFORMER LOCATION. SEE UTILITY PLAN UNDER SEPARATE COVER FOR MORE INFORMATION.
31. PAINT CURB ALONG FRONT OF TANKS YELLOW.
32. DRIVEWAY ENTRANCE PAVEMENT MARKINGS. REFER TO DETAIL ON SHEET C5.4.
33. 2'X10' CROSSWALK STRIPES PER TOWN OF PARKER ROADWAY DESIGN AND CONSTRUCTION CRITERIA MANUAL STANDARDS.
34. STORM INLET/MANHOLE. REFER TO SHEETS C4.3 - C4.5 FOR MORE INFORMATION.
35. APPROXIMATE LOCATION OF SITE LIGHTING. (SEE PHOTOMETRICS PLAN.)
36. EXISTING STORM SEWER MAIN / INLET / MANHOLE TO REMAIN.
37. EXISTING CURB AND GUTTER TO REMAIN.
38. EXISTING SIDEWALK TO REMAIN.
39. EXISTING ROAD PAVEMENT MARKINGS TO REMAIN.
40. EXISTING ADA RAMP.
41. EXISTING FIRE HYDRANT.
42. PROPOSED EUSERC ELECTRICAL CABINET (30"W x 30"H x 11"D).
43. PROPOSED SIGHT TRIANGLE.
44. FUTURE SIDEWALK AND CURB & GUTTER TO BE CONSTRUCTED BY OTHER WITH BAYOU GULCH EXPANSION.
45. PROPOSED MOUNTABLE CURB ISLAND.

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2293 - PARKER, COLORADO
BAYOU GULCH RD AND PINERY PKWY

DETAILED SITE PLAN - SOUTH

KG PROJECT TEAM: EES
RDM: RF
SDM: DG
CPM: BS

REVISIONS

	DATE	REVISION DESCRIPTION
△		

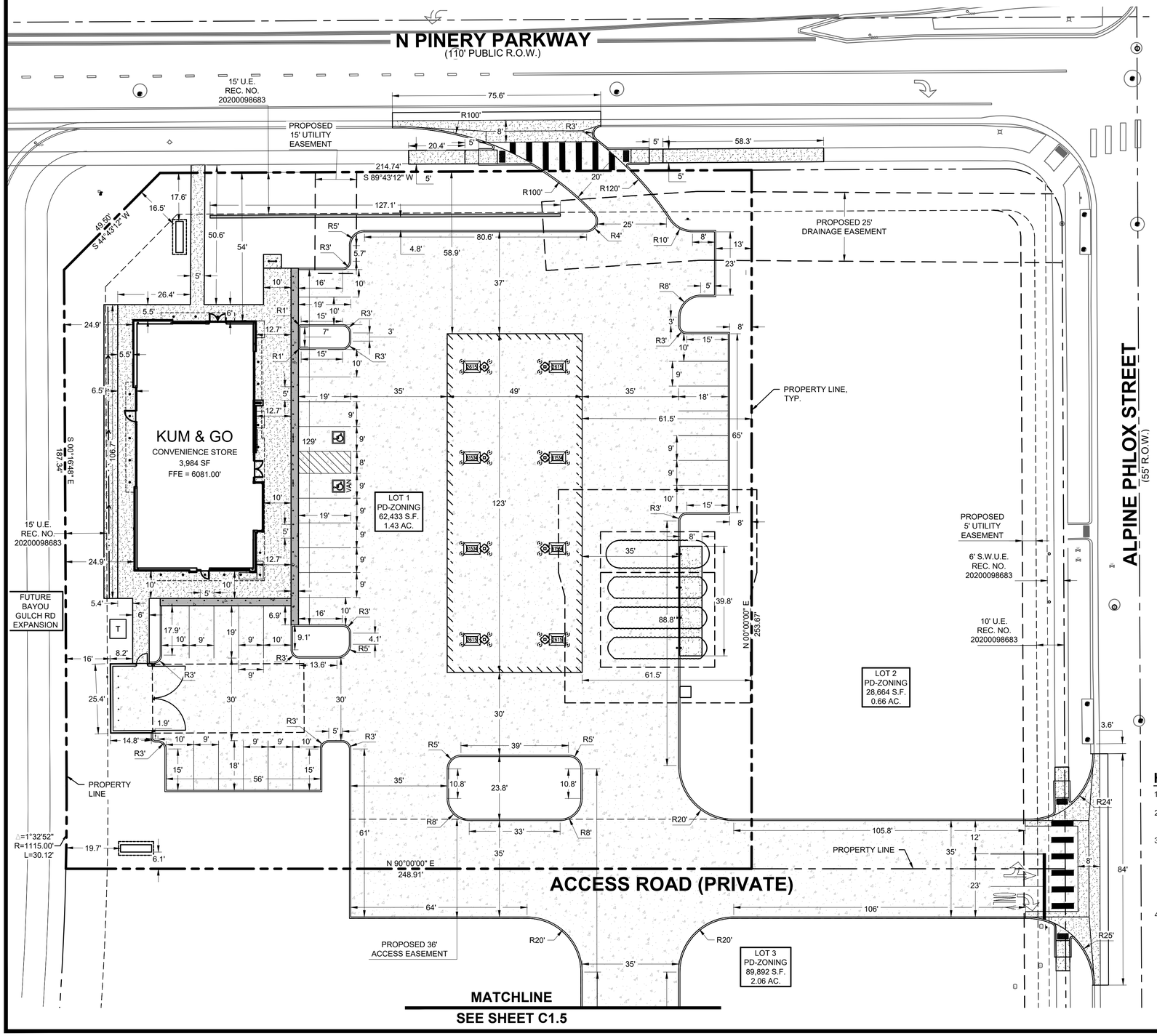
DATE: 07-12-2023

SHEET NUMBER:
C1.3
7 OF 43

P:\KUM & GO\CO, PARKER_2293 - PINERY AND BAYOU GULCH\08 CAD\CD\2293 - 07 - DETAILED SITE PLAN - SOUTH.DWG

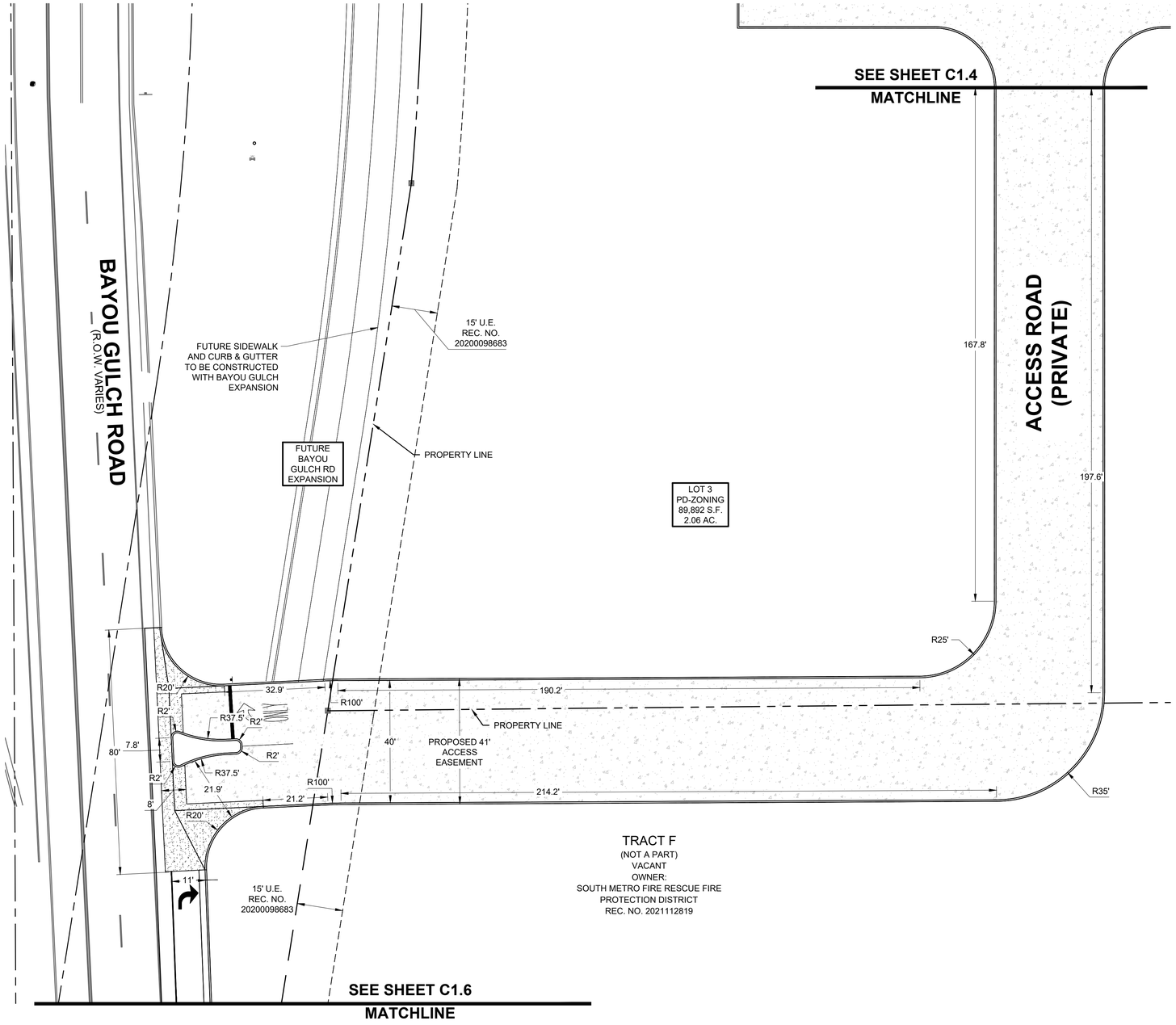
811 Know what's **below.** **Call** before you dig.

CALL 811 SEVENTY-TWO HOURS PRIOR TO DIGGING, GRADING OR EXCAVATING FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.



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N

SCALE IN FEET
0 20 40

IF BAR DOES NOT MEASURE 1 INCH THEN DRAWING IS NOT TO SCALE

HORIZONTAL CONTROL PLAN LEGEND

- PROPERTY BOUNDARY
- EXISTING EASEMENT
- EXISTING CURB & GUTTER
- PROPOSED INTEGRAL CURB
- PROPOSED BUILDING
- PROPOSED TRASH ENCLOSURE, PARKING AREA AND DRIVE AISLES STANDARD CONCRETE PAVEMENT (SEE DETAIL SHEET)
- PROPOSED CONCRETE SIDEWALK

HORIZONTAL CONTROL NOTES:

1. ALL DIMENSIONS ARE TO FLOWLINE UNLESS OTHERWISE NOTED.
2. THE CONTRACTOR SHALL OBTAIN THE LATEST CAD FILE OF SITE IMPROVEMENTS FROM THE ENGINEER OF RECORD FOR HORIZONTAL AND VERTICAL SURVEY CONTROL PRIOR TO CONSTRUCTION. CONTRACTOR TO VERIFY WITH ENGINEER OF RECORD ANY DISCREPANCIES BETWEEN THE CAD FILES AND CONSTRUCTION PLANS PRIOR TO INSTALLATION OF PLAN IMPROVEMENTS.
3. SEE ARCHITECTURAL PLANS FOR BUILDING DIMENSIONS.

TRASH ENCLOSURE AND PAVEMENT SECTIONS:

SITE PARKING AND DRIVE AREAS - STANDARD DUTY CONCRETE PAVEMENT
A = 6" CONCRETE PAVEMENT
B = 12" PREPARED SUBGRADE

NOTE:

PAVEMENT SECTIONS PER GEOTECHNICAL ENGINEERING SERVICES REPORT, PREPARED BY OLSSON, PROJECT NO. 022-03197, DATED 09-16-2022 AND ANY ADDENDUMS.

SOIL PREPARATION NOTE:

SOIL PREPARATION SHALL BE PER RECOMMENDATIONS FROM A GEOTECHNICAL ENGINEERING REPORT PREPARED FOR THIS SITE AS FOLLOWS

GEOTECHNICAL ENGINEER: OLSSON
REPORT NO. 022-03197

THE CONTRACTOR MUST FULLY REVIEW THIS REPORT PRIOR TO CONSTRUCTION INFORMATION IN THE GEOTECHNICAL REPORT SUPERSEDES ANY CONFLICTING INFORMATION CONTAINED IN THE CONSTRUCTION PLANS AND SPECIFICATIONS.

HORIZONTAL CONTROL NOTES:

1. ALL DIMENSIONS ARE TO FLOWLINE UNLESS OTHERWISE NOTED.
2. UNLESS OTHERWISE NOTED, ALL RADII ON PARKING ISLAND SHALL BE 3'.
3. THE CONTRACTOR SHALL OBTAIN THE LATEST CAD FILE OF SITE IMPROVEMENTS FROM THE ENGINEER OF RECORD FOR HORIZONTAL AND VERTICAL SURVEY CONTROL PRIOR TO CONSTRUCTION. CONTRACTOR TO VERIFY WITH ENGINEER OF RECORD ANY DISCREPANCIES BETWEEN THE CAD FILES AND CONSTRUCTION PLANS PRIOR TO INSTALLATION OF PLAN IMPROVEMENTS.
4. SEE ARCHITECTURAL PLANS FOR BUILDING DIMENSIONS.

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2293 - PARKER, COLORADO
BAYOU GULCH RD AND PINERY PKWY

DETAILED HORIZONTAL CONTROL &PAVING PLAN - SOUTH

KG PROJECT TEAM: EES
RDM: RF
SDM: DG
CPM: BS

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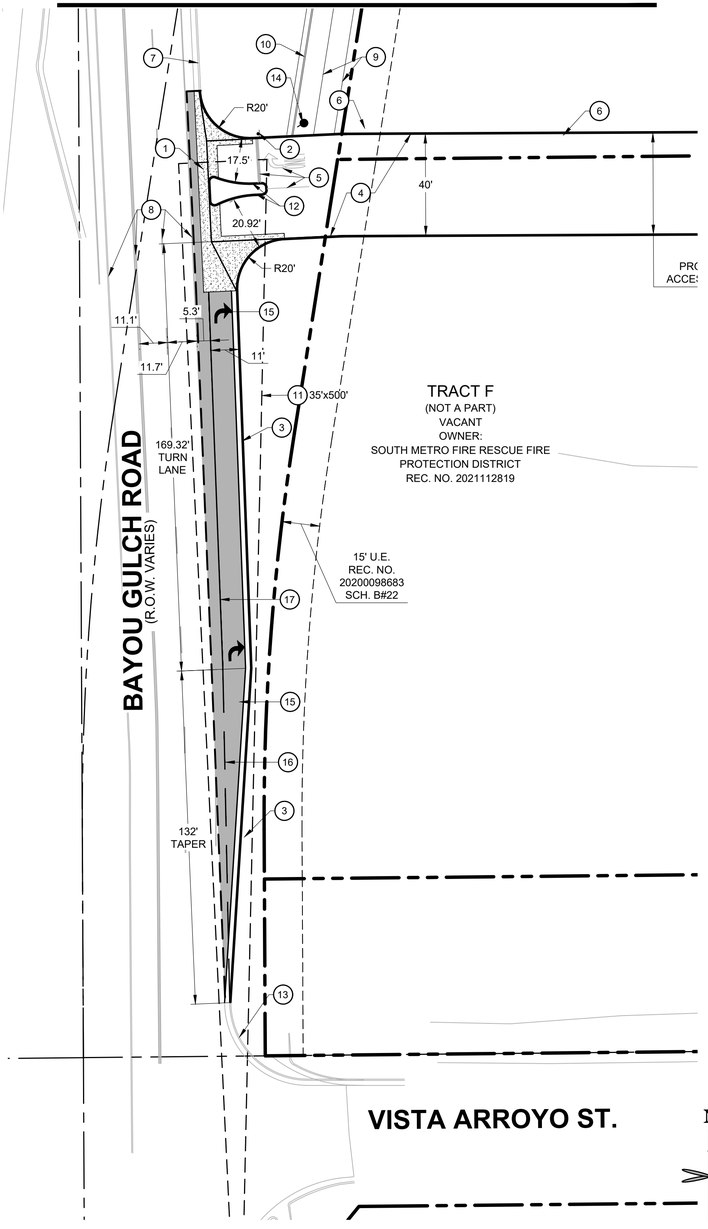
DATE: 07-12-2023

SHEET NUMBER: C1.5
9 OF 43

P:\KUM & GO\CO. PARKER_2293 - PINERY AND BAYOU GULCH\08 CAD\CD\2293 - 09 - DET HORIZ CONT PLAN - SOUTH.DWG

CRITERIA PLAN 04/2020

SEE SHEET C1.3 - MATCHLINE



OFFSITE SITE PLAN

SCALE IN FEET
0 30 60

IF BAR DOES NOT MEASURE
1 INCH THEN DRAWING IS
NOT TO SCALE

SITE PLAN LEGEND

- PROPERTY BOUNDARY
- PROPOSED EASEMENT
- EXISTING EASEMENT
- EXISTING CURB & GUTTER
- PROPOSED VERTICAL CURB & GUTTER
- PROPOSED ASPHALT
- PROPOSED SITE LIGHT

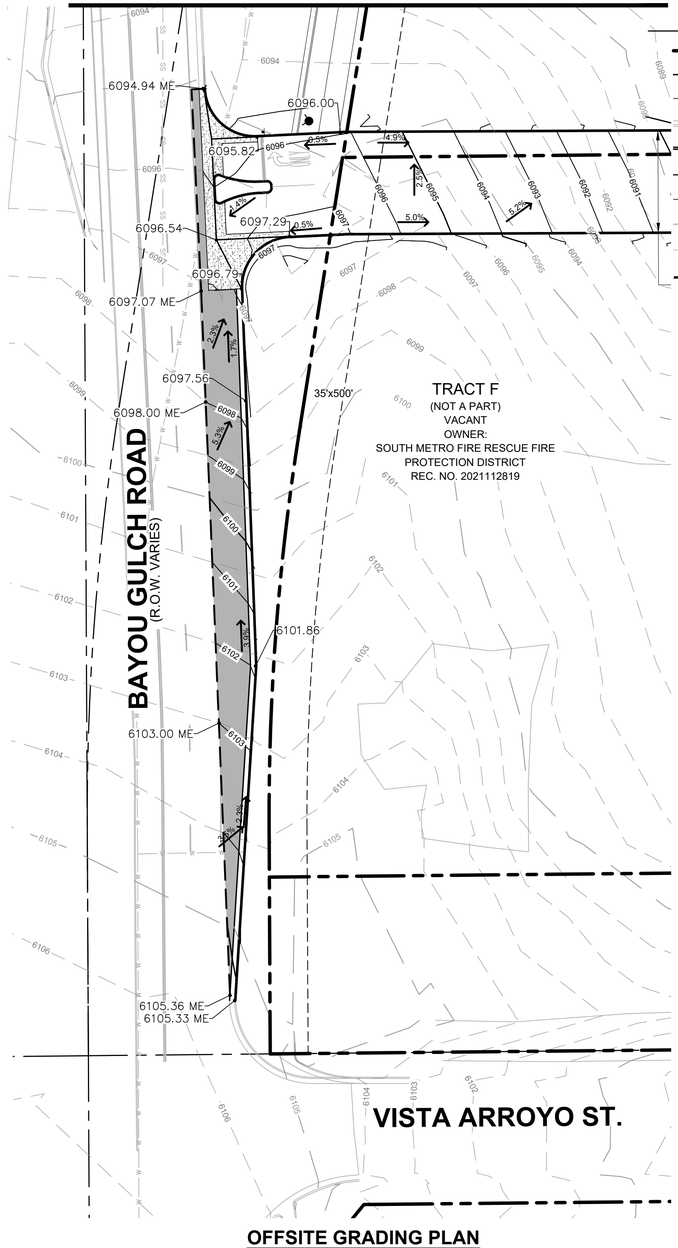
SITE SCHEDULE:

1. 8' CONCRETE CROSSPAN
2. STOP SIGN (R1-1).
3. VERTICAL CURB AND GUTTER PER TOWN OF PARKER STANDARD DETAILS.
4. INTEGRAL CONCRETE CURB.
5. DRIVEWAY ENTRANCE PAVEMENT MARKINGS.
6. APPROXIMATE LOCATION OF SITE LIGHTING. REFER TO PHOTOMETRIC PLAN FOR DETAILS.
7. EXISTING CURB AND GUTTER TO REMAIN.
8. EXISTING ROAD PAVEMENT MARKINGS TO REMAIN.
9. 8' CONCRETE PUBLIC SIDEWALK TO BE CONSTRUCTED WITH BAYOU GULCH EXPANSION.
10. FUTURE CURB & GUTTER TO BE CONSTRUCTED WITH BAYOU GULCH EXPANSION.
11. PROPOSED SIGHT TRIANGLE.
12. PROPOSED MOUNTABLE CURB ISLAND.
13. EXISTING CURB & GUTTER PER DOUGLAS COUNTY IMPROVEMENTS.
14. PROPOSED FIRE HYDRANT.
15. PROPOSED DIRECTION OF TRAVEL ARROW PAVEMENT MARKING.
16. PROPOSED 8" SKIP WHITE LANE DROP STRIPING. 3 FOOT SEGMENTS WITH 9 FOOT GAPS.
17. PROPOSED 8" SOLID WHITE CHANNELIZING LANE STRIPING.

BENCHMARK:

ELEVATIONS ARE BASED UPON A POST-PROCESSED STATIC GNSS CONNECTION MADE TO DOUGLAS COUNTY GIS POINT 1.051038 BEING A FOUND 3.25" ALLOY CAP STAMPED "DOUGLAS COUNTY - 1.051038 - SECONDARY CONTROL MONUMENT" UTILIZING GEOID18 TO MODEL THE ELLIPSOID SEPARATION AND HAVING A PUBLISHED ELEVATION OF: 6053.87 FEET (NAVD 88). SITE BENCH MARK: FWS CONTROL POINT 501 BEING A SET NO.5 REBAR WITH A 2" ALLOY CAP STAMPED "FWS CONTROL POINT" LOCATED APPROXIMATELY 144.5' SOUTH OF THE INTERSECTION OF THE CENTER-LINES OF NORTH PINERY PARKWAY AND ALPINE PHLOX STREET AND 23' WEST OF THE CENTER-LINE OF ALPINE PHLOX STREET HAVING AN ESTABLISHED ELEVATION OF 6069.33' NAVD 88.

SEE SHEET C2.4 - MATCHLINE



OFFSITE GRADING PLAN

SCALE IN FEET
0 30 60

IF BAR DOES NOT MEASURE
1 INCH THEN DRAWING IS
NOT TO SCALE

LEGEND

- PROPERTY BOUNDARY
- PROPOSED EASEMENT
- EXISTING EASEMENT
- EXISTING CURB AND GUTTER
- PROPOSED CURB AND GUTTER
- 6080 — PROPOSED MAJOR CONTOUR
- 6081 — PROPOSED MINOR CONTOUR
- 6080 — EXISTING MAJOR CONTOUR
- 6081 — EXISTING MINOR CONTOUR
- PROPOSED ACCESSIBLE ROUTE
- 5836.21 — PROPOSED FLOW LINE ELEVATION
- 5836.21 SW — PROPOSED SIDEWALK ELEVATION
- 5836.21 ME — PROPOSED GRADE TO MATCH EXISTING
- 5836.21 TBC — PROPOSED TOP BACK OF CURB ELEVATION
- 5836.21 FG — PROPOSED FINISHED GRADE ELEVATION
- 5836.21 — PROPOSED EXTERIOR GRADE AT FOUNDATION
- 3.1% — FLOW ARROW AND GRADE

GENERAL NOTES:

1. CATCH CURB AND GUTTER FLOWLINE GRADES SHALL BE A MINIMUM 0.5% UNLESS OTHERWISE SHOWN.
2. ALL ADA SIDEWALKS, RAMPS AND PARKING STALLS SHALL COMPLY WITH CITY AND STATE APPLICABLE CODES AND STANDARDS.
3. ALL SPOT ELEVATIONS ARE IN REFERENCE TO THE BENCHMARK.
4. SIDEWALKS SHALL NOT EXCEED 2% CROSS SLOPE.
5. ALL ELEVATIONS ARE FLOWLINE UNLESS OTHERWISE NOTED.
6. OFFSITE EASEMENTS REQUIRED FOR ANY GRADING BEYOND PROPERTY BOUNDARY.
7. NO WORK IS TO BEGIN UNTIL ALL PERMITS HAVE BEEN OBTAINED.
8. FINAL GRADES ARE SUBJECT TO MINOR CHANGE BY CONTRACTOR. NO GRADE CHANGES IN EXCESS OF 0.05' WITHOUT ENGINEER APPROVAL.
9. ANY FILL MATERIAL REQUIRED TO BRING THE SITE TO GRADE SHALL BE CLEAN FILL APPROVED BY GEOTECHNICAL ENGINEER.
10. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR MINIMIZING DEPOSITION OF ONSITE SEDIMENTS ONTO SURROUNDING PUBLIC STREETS DURING CONSTRUCTION.

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

CALL 811 SEVENTY-TWO HOURS PRIOR TO DIGGING, GRADING OR EXCAVATING FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

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2293 - PARKER, COLORADO
BAYOU GULCH RD AND PINERY PKWY

OFFSITE ACCESS SITE & GRADING PLAN

KG PROJECT TEAM: EES
RDM: RF
SDM: DG
CPM: BS

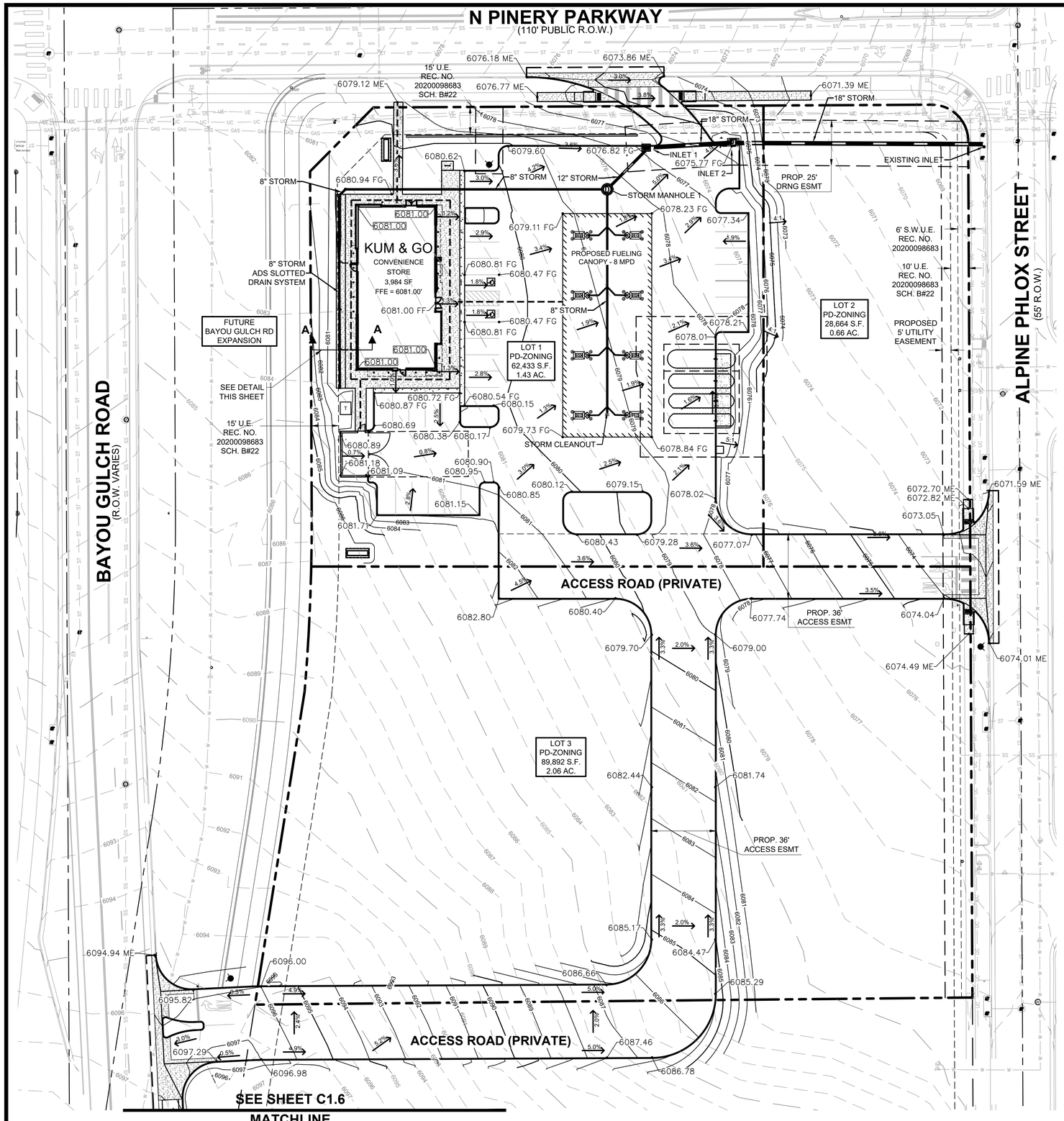
REVISIONS	DATE	REVISION DESCRIPTION
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DATE: 07-12-2023

SHEET NUMBER:
C1.6
10 OF 43

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CRITERIA PLAN 04/2020



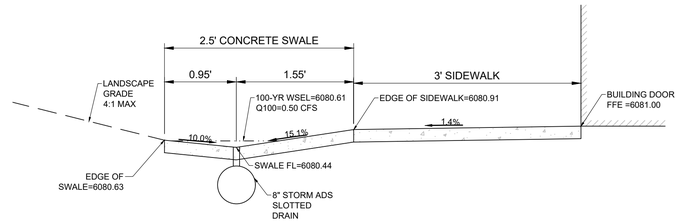
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SCALE IN FEET
0 30 60

IF BAR DOES NOT MEASURE 1 INCH THEN DRAWING IS NOT TO SCALE

LEGEND

- PROPERTY BOUNDARY
- EXISTING EASEMENT
- EXISTING CURB AND GUTTER
- PROPOSED CURB AND GUTTER
- 6080 — PROPOSED MAJOR CONTOUR
- 6081 — PROPOSED MINOR CONTOUR
- 6080 — EXISTING MAJOR CONTOUR
- 6081 — EXISTING MINOR CONTOUR
- PROPOSED ACCESSIBLE ROUTE
- 5836.21 — PROPOSED FLOW LINE ELEVATION
- 5836.21 SW — PROPOSED SIDEWALK ELEVATION
- 5836.21 ME — PROPOSED GRADE TO MATCH EXISTING
- 5836.21 TBC — PROPOSED TOP BACK OF CURB ELEVATION
- 5836.21 FG — PROPOSED FINISHED GRADE ELEVATION
- 5836.21 — PROPOSED EXTERIOR GRADE AT FOUNDATION
- 3.1% — FLOW ARROW AND GRADE



CROSS-SECTION A-A
SCALE: 1"=2'

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3. ALL SPOT ELEVATIONS ARE IN REFERENCE TO THE BENCHMARK.
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BAYOU GULCH RD AND PINERY PKWY
OVERALL GRADING PLAN

KG PROJECT TEAM: EES
RDM: RF
SDM: DG
CPM: BS

REVISIONS

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SHEET NUMBER: C2.1
11 OF 43

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CRITERIA PLAN 04/2020

CALL UTILITY NOTIFICATION CENTER OF COLORADO

1-800-922-1987 or 811

CALL 3-BUSINESS DAYS (NOT INCLUDING INITIAL DAY OF CONTACT) IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

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

PROPOSED 15' UTILITY EASEMENT

15' U.E. REC. NO. 20200098683

LANDSCAPE SCREENING HEDGE

PROPOSED 25' DRAINAGE EASEMENT

INLET 1
TYPE 13 COMBINATION

INLET 2
5' TYPE R

KUM & GO
CONVENIENCE STORE
3,984 SF
FFE = 6081.00'

DRAINAGE SWALE ON ADS SLOTTED DRAIN IN CONCRETE SWALE

6' WALK

5' CONCRETE SWALE

SEE SHEET C2.1 FOR CROSS SECTION DETAIL

20K UNLEADED

12K E-85

MATCHLINE
SEE SHEET C2.3

N

SCALE IN FEET
0 10 20

IF BAR DOES NOT MEASURE 1 INCH THEN DRAWING IS NOT TO SCALE

LEGEND

PROPERTY BOUNDARY	5836.21 — PROPOSED FLOW LINE ELEVATION
EXISTING EASEMENT	5836.21 SW — PROPOSED SIDEWALK ELEVATION
EXISTING CURB AND GUTTER	5836.21 TBC — PROPOSED TOP BACK OF CURB ELEVATION
PROPOSED CURB AND GUTTER	5836.21 FG — PROPOSED FINISHED GRADE ELEVATION
6080 — PROPOSED MAJOR CONTOUR	5836.21 GB — PROPOSED GRADE BREAK ELEVATION
6081 — PROPOSED MINOR CONTOUR	3.1% — FLOW ARROW AND GRADE
- 6080 - EXISTING MAJOR CONTOUR	
- 6081 - EXISTING MINOR CONTOUR	
PROPOSED ACCESSIBLE ROUTE	

BENCHMARK:

ELEVATIONS ARE BASED UPON A POST-PROCESSED STATIC GNSS CONNECTION MADE TO DOUGLAS COUNTY GIS POINT 1.051038 BEING A FOUND 3.25" ALLOY CAP STAMPED "DOUGLAS COUNTY - 1.051038 - SECONDARY CONTROL MONUMENT" UTILIZING GEOID18 TO MODEL THE ELLIPSOID SEPARATION AND HAVING A PUBLISHED ELEVATION OF: 6053.87 FEET (NAVD 88). SITE BENCH MARK: FWS CONTROL POINT 501 BEING A SET NO.5 REBAR WITH A 2" ALLOY CAP STAMPED "FWS CONTROL POINT" LOCATED APPROXIMATELY 144.5' SOUTH OF THE INTERSECTION OF THE CENTER-LINES OF NORTH PINERY PARKWAY AND ALPINE PHLOX STREET AND 23' WEST OF THE CENTER-LINE OF ALPINE PHLOX STREET HAVING AN ESTABLISHED ELEVATION OF 6069.33' NAVD 88.

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Des Moines, IA 50309
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2293 - PARKER, COLORADO
BAYOU GULCH RD AND PINERY PKWY
ENLARGENED GRADING PLAN - NORTH

KG PROJECT TEAM: EES
RDM: RF
SDM: DG
CPM: BS

REVISIONS	DATE	REVISION DESCRIPTION
△		

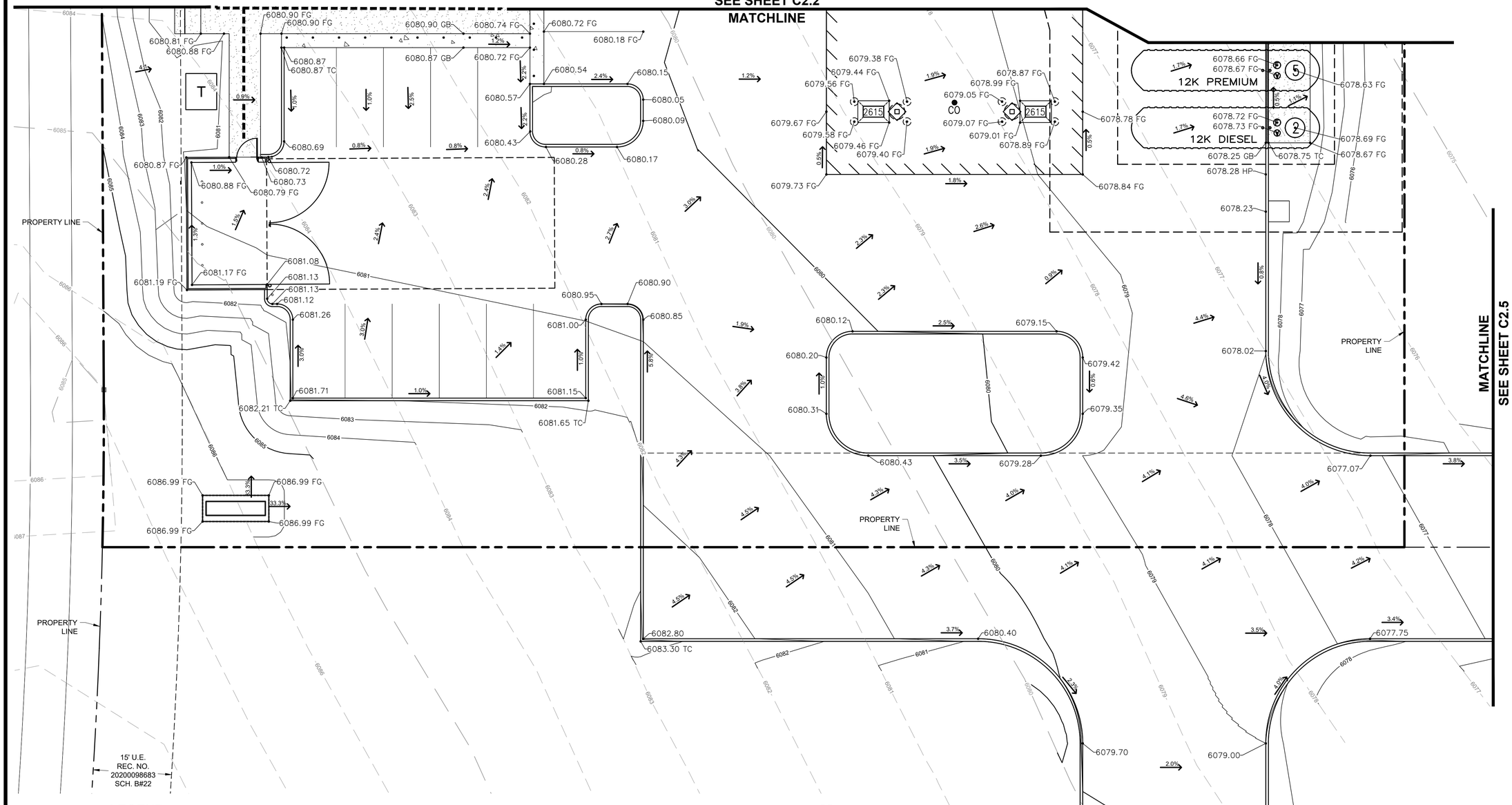
DATE: 07-12-2023

SHEET NUMBER: C2.2
12 OF 43

P:\KUM & GO\CO, PARKER_2293 - PINERY AND BAYOU GULCH\08 CAD\CD\2293 - 11 - DET GRADING PLAN - NORTH.DWG

CRITERIA PLAN 04/2020

SEE SHEET C2.2
MATCHLINE



LEGEND

	PROPERTY BOUNDARY
	EXISTING EASEMENT
	EXISTING CURB AND GUTTER
	PROPOSED CURB AND GUTTER
6080	PROPOSED MAJOR CONTOUR
6081	PROPOSED MINOR CONTOUR
- 6080 -	EXISTING MAJOR CONTOUR
— 6081 —	EXISTING MINOR CONTOUR
	PROPOSED ACCESSIBLE ROUTE
5836.21	PROPOSED FLOW LINE ELEVATION
5836.21 HP	PROPOSED HIGH POINT ELEVATION
5836.21 SW	PROPOSED SIDEWALK ELEVATION
5836.21 ME	PROPOSED GRADE TO MATCH EXISTING
5836.21 TBC	PROPOSED TOP BACK OF CURB ELEVATION
5836.21 FG	PROPOSED FINISHED GRADE ELEVATION
5836.21	PROPOSED EXTERIOR GRADE AT FOUNDATION
3.1%	FLOW ARROW AND GRADE

BENCHMARK:

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N

SCALE IN FEET
0 10 20

IF BAR DOES NOT MEASURE 1 INCH THEN DRAWING IS NOT TO SCALE

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2293 - PARKER, COLORADO
BAYOU GULCH RD AND PINERY PKWY

ENLARGENED GRADING PLAN - SOUTH

KG PROJECT TEAM: EES
RDM: RF
SDM: DG
CPM: BS

REVISIONS

	DATE	REVISION DESCRIPTION
1		

DATE: 07-12-2023

SHEET NUMBER: C2.3
13 OF 43

CRITERIA PLAN 04/2020

P:\KUM & GO\CO, PARKER_2293 - PINERY AND BAYOU GULCH\08 CAD\CD\2293 - 12 - DET GRADING PLAN - SOUTH.DWG

15' U.E.
REC. NO.
20200098683
SCH. B#22

LOT 3
PD-ZONING
89,892 S.F.
2.06 AC.

6095.08 ME
6095.11 ME
6094.94 ME
6095.37 ME
6095.65 ME
6095.82
6095.50
6095.62 FG
6095.95
6095.92
6096.22 ME
6096.12
6096.21
6096.43
6096.53
6096.56
6096.62
6096.00 HP
6095.32
6093.95
PROPERTY LINE
6097.38 HP
6097.22 FG
6097.29
6096.63 FG
6096.54
6096.73 ME
6096.79
6097.07 ME
6096.11
6093.47
6086.66
6087.46

SEE SHEET C2.1 MATCHLINE

LEGEND

- PROPERTY BOUNDARY
- EXISTING EASEMENT
- EXISTING CURB AND GUTTER
- PROPOSED CURB AND GUTTER
- 6080 — PROPOSED MAJOR CONTOUR
- 6081 — PROPOSED MINOR CONTOUR
- - 6080 - — EXISTING MAJOR CONTOUR
- — — 6081 — — — EXISTING MINOR CONTOUR
- PROPOSED ACCESSIBLE ROUTE
- 5836.21 — PROPOSED FLOW LINE ELEVATION
- 5836.21 HP — PROPOSED HIGH POINT ELEVATION
- 5836.21 SW — PROPOSED SIDEWALK ELEVATION
- 5836.21 ME — PROPOSED GRADE TO MATCH EXISTING
- 5836.21 TBC — PROPOSED TOP BACK OF CURB ELEVATION
- 5836.21 FG — PROPOSED FINISHED GRADE ELEVATION
- 5836.21 — PROPOSED EXTERIOR GRADE AT FOUNDATION
- 3.1% — FLOW ARROW AND GRADE

N

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2293 - PARKER, COLORADO
BAYOU GULCH RD AND PINERY PKWY
ENLARGENED GRADING PLAN
- SOUTHWEST

KG PROJECT TEAM: EES
RDM: RF
SDM: DG
CPM: BS

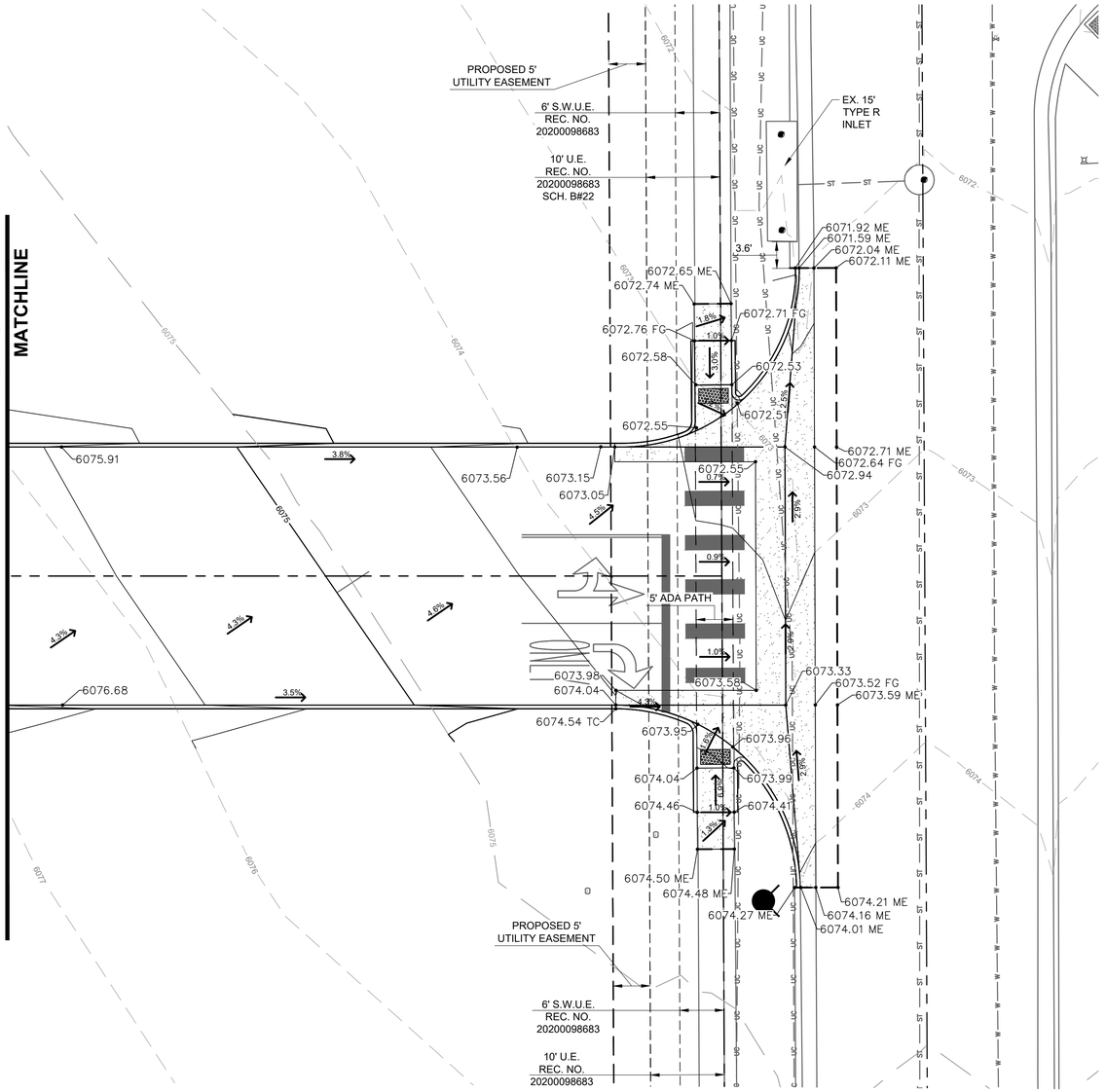
REVISIONS	REVISION DESCRIPTION	DATE
△		

DATE: 07-12-2023

SHEET NUMBER:
C2.4
14 OF 43

P:\KUM & GO\CO, PARKER_2293 - PINERY AND BAYOU GULCH\06 CAD\CD\2293 - 13 - DET GRADING PLAN - SW.DWG

CRITERIA PLAN 04/2020



N

SCALE IN FEET
0 10 20

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LEGEND

	PROPERTY BOUNDARY
	EXISTING EASEMENT
	EXISTING CURB AND GUTTER
	PROPOSED CURB AND GUTTER
6080	PROPOSED MAJOR CONTOUR
6081	PROPOSED MINOR CONTOUR
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BAYOU GULCH RD AND PINERY PKWY
ENLARGENED GRADING PLAN - EAST

KG PROJECT TEAM: EES
RDM: RF
SDM: DG
CPM: BS

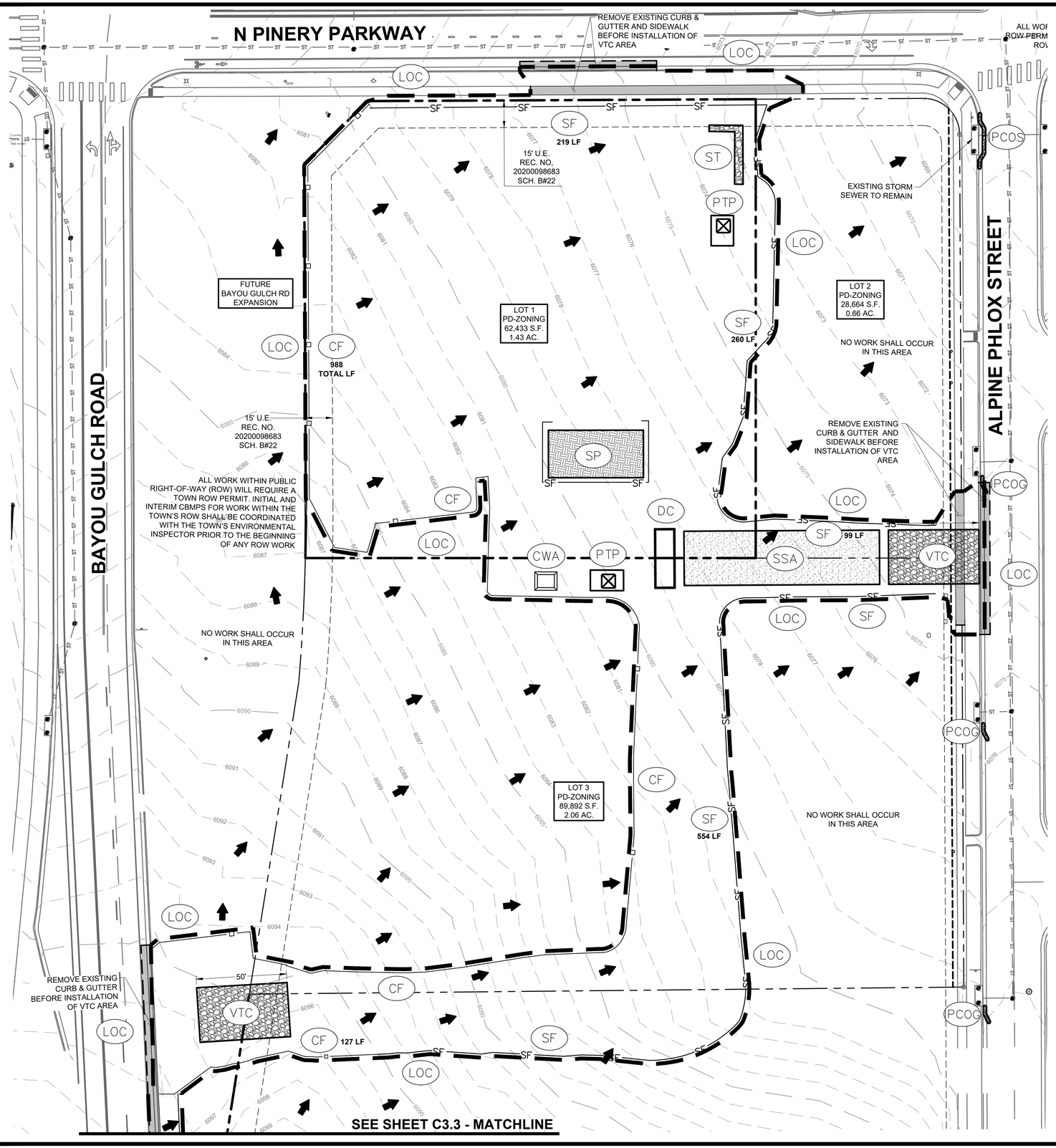
REVISIONS	DATE	REVISION DESCRIPTION
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DATE: 07-12-2023

SHEET NUMBER:
C2.5
15 OF 43

P:\KUM & GO\CO. PARKER_2293 - PINERY AND BAYOU GULCH\08 CAD\CD\2293 - 14 - DET GRADING PLAN - EAST.DWG

CRITERIA PLAN 04/2020



N

SCALE IN FEET
0 30 60

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REFER TO SHEET C3.4 FOR BMP LEGEND AND SYMBOLS

NOTES:

1. SEE THIS CD SET, SHEETS C3.4 THROUGH C3.14, AND/OR TOWN OF PARKER WEBSITE FOR LEGEND AND DETAILS: HTTP://WWW.PARKERONLINE.ORG/532/CONSTRUCTION-BEST-MANAGEMENT-PRACTICES FOR STANDARD NOTES AND BMP DETAILS.
2. BMPs ON INITIAL PLAN TO BE INSTALLED PRIOR TO CONSTRUCTION AND REMAIN UNTIL STABILIZATION UNLESS OTHERWISE NOTED.
3. PORTABLE TOILETS MAY BE LOCATED AS NEEDED BY THE CONTRACTOR WITH PROPER PROTECTION PER TOWN OF PARKER STANDARDS.
4. SURFACE ROUGHENING WILL BE IMPLEMENTED ON DISTURBED SLOPES AS NEEDED.
5. ALL TOPSOIL IS REQUIRED PER THE TOWN OF PARKER REGULATIONS TO BE STOCKPILED ONCE STRIPPED AND RE-USED DURING FINAL STABILIZATION SEEDING TO PROMOTE GERMINATION AND RE-GROWTH.
6. CONTRACTOR TO PLACE TRENCH SOILS ON THE UPHILL SIDE OF THE TRENCH.
7. CONSTRUCTION TRAFFIC TO UTILIZE PRIVATE DRIVE. PUBLIC ACCESS ROUTE TO THE SOUTH SHALL BE INSPECTED PRIOR TO THE START OF ANY CONSTRUCTION. ANY DAMAGE TO THE ACCESS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE REPAIRED AND OR REPLACED PRIOR TO THE ISSUANCE OF THE CERTIFICATE OF OCCUPANCY. NOTE, IF NOT INSPECTED AND IDENTIFIED, ANY DAMAGE MAY HOLD UP ISSUANCE OF A CERTIFICATE OF OCCUPANCY UNTIL OFF-SITE (PUBLIC ACCESS) CONDITION IS ACCEPTABLE TO THAT PROPERTY OWNER.
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2293 - PARKER, COLORADO
BAYOU GULCH RD AND PINERY PKWY
EROSION AND STORMWATER CONTROL PLAN - INITIAL

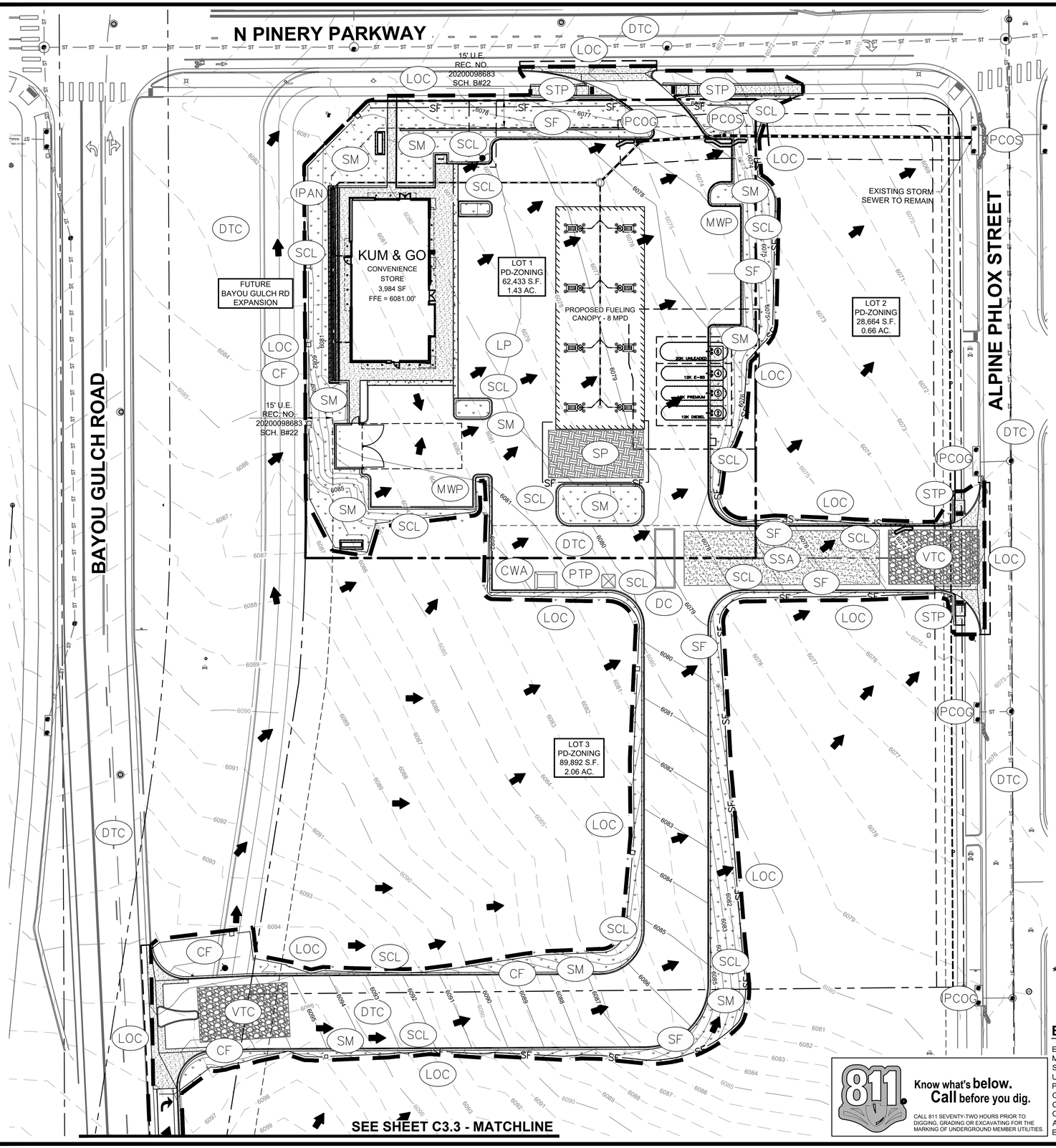
KG PROJECT TEAM: EES
RDM: RF
SDM: DG
CPM: BS

REVISIONS		
	DATE	REVISION DESCRIPTION

DATE: 07-12-2023

SHEET NUMBER: C3.1
16 OF 43

P:\KUM & GO\CO. PARKER_2293 - PINERY AND BAYOU GULCH\08 CAD\CD\2293 - 15 - CBMP PLAN - INITIAL.DWG



N

SCALE IN FEET
0 30 60

IF BAR DOES NOT MEASURE
1 INCH THEN DRAWING IS
NOT TO SCALE

REFER TO SHEET C3.4 FOR BMP LEGEND AND SYMBOLS

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GRADING QUANTITIES

CUT*	±998 CY
FUELING TANK EXCAVATION EXPORT*	±1,245 CY
FILL*	±3,643 CY
NET*	±1,400 CY (FILL)
AREA OF DISTURBANCE	±2.49 AC

* QUANTITIES ARE RAW VALUES FROM EXISTING GRADE TO FINISHED GRADE AND DO NOT ACCOMMODATE ANY PAVEMENT SECTIONS, OVER-EXCAVATION OR UTILITY TRENCHING. CONTRACTOR IS RESPONSIBLE TO DO THEIR OWN INDEPENDENT CALCULATIONS. HAUL-ON OR HAUL-OFF OF MATERIAL SHALL BE AT NO ADDITIONAL CHARGE.

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THE TOWN OF PARKER REVIEW CONSTITUTES GENERAL COMPLIANCE WITH THE TOWN'S STANDARDS AND APPROVED VARIANCES, SUBJECT TO THESE PLANS BEING STAMPED, SIGNED, AND DATED BY THE PROFESSIONAL ENGINEER OF RECORD. REVIEW BY THE TOWN DOES NOT CONSTITUTE APPROVAL OF THE PLAN DESIGN OR ACCURACY AND CORRECTNESS OF ENGINEERING CALCULATIONS. ERRORS IN THE DESIGN OR CALCULATIONS REMAIN THE RESPONSIBILITY OF THE REGISTERED PROFESSIONAL ENGINEER WHOSE STAMP AND SIGNATURE ARE AFFIXED TO THIS DOCUMENT. THIS REVIEW DOES NOT CONSTITUTE APPROVAL OF ANY PRIVATE ON-SITE IMPROVEMENTS WHICH MAY BE SHOWN. CONSTRUCTION CANNOT COMMENCE UNTIL ALL REQUIRED DRAINAGE/TRAFFIC REPORT(S), FINAL DEVELOPMENT PLAN(S), SPECIAL REVIEW(S), GRADING PERMIT, AND/OR OTHER PERMITS ARE COMPLETE, APPROVED AND ON FILE WITH THE TOWN OF PARKER.

TOWN OF PARKER,
DIRECTOR OF ENGINEERING/PUBLIC WORKS

DATE

EES ENTITLEMENT AND ENGINEERING SOLUTIONS, INC.
3801 E. Florida Avenue, Suite 425
Denver, CO 80210
303-572-7997 www.ees.us.com

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Kum & Go
1459 Grand Ave
Des Moines, IA 50309
P: 888-458-6646

2293 - PARKER, COLORADO
BAYOU GULCH RD AND PINERY PKWY
EROSION AND STORMWATER CONTROL PLAN - INTERIM AND FINAL

KG PROJECT TEAM: EES
RDM: RF
SDM: DG
CPM: BS

REVISIONS

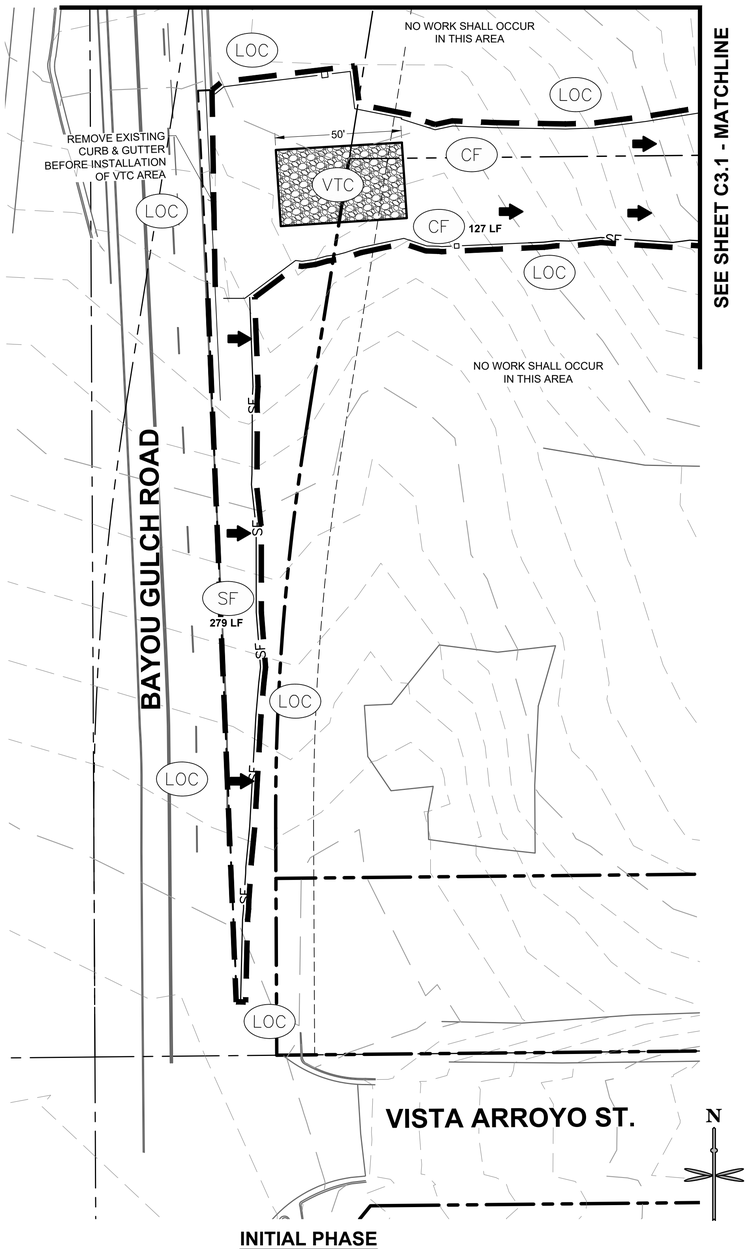
	DATE	REVISION DESCRIPTION

DATE: 07-12-2023

SHEET NUMBER:
C3.2
17 OF 43

P:\KUM & GO\CO, PARKER_2293 - PINERY AND BAYOU GULCH\08 CAD\CD\2293 - 16 - CBMP PLAN - I AND F.DWG

CRITERIA PLAN 04/2020



INITIAL PHASE

SCALE IN FEET
0 30 60

IF BAR DOES NOT MEASURE
1 INCH THEN DRAWING IS
NOT TO SCALE

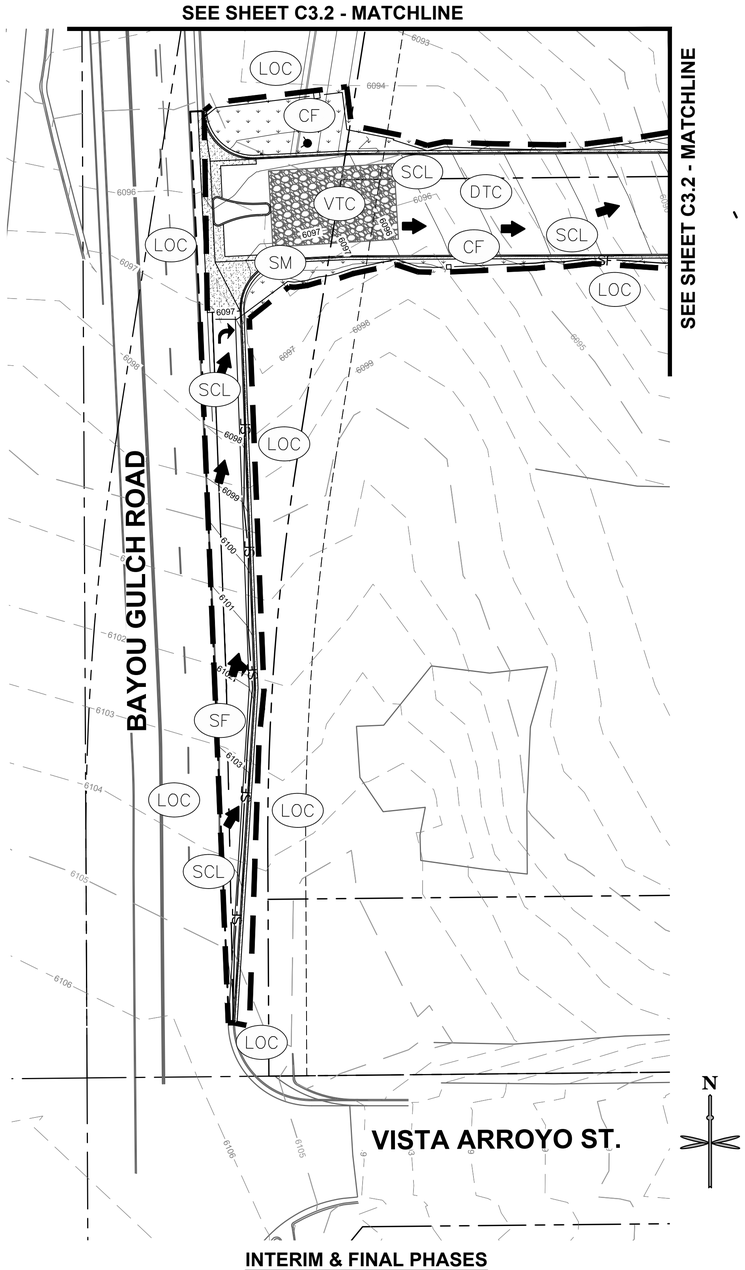
REFER TO SHEET C3.4 FOR BMP LEGEND AND SYMBOLS

NOTES:

1. SEE THIS CD SET, SHEETS C3.4 THROUGH C3.14, AND/OR TOWN OF PARKER WEBSITE FOR LEGEND AND DETAILS: HTTP://WWW.PARKERONLINE.ORG/532/CONSTRUCTION-BEST-MANAGEMENT-PRACTICES FOR STANDARD NOTES AND BMP DETAILS.
2. BMPs ON INITIAL PLAN TO BE INSTALLED PRIOR TO CONSTRUCTION AND REMAIN UNTIL STABILIZATION UNLESS OTHERWISE NOTED.
3. PORTABLE TOILETS MAY BE LOCATED AS NEEDED BY THE CONTRACTOR WITH PROPER PROTECTION PER TOWN OF PARKER STANDARDS.
4. SURFACE ROUGHENING WILL BE IMPLEMENTED ON DISTURBED SLOPES AS NEEDED.
5. ALL TOPSOIL IS REQUIRED PER THE TOWN OF PARKER REGULATIONS TO BE STOCKPILED ONCE STRIPPED AND RE-USED DURING FINAL STABILIZATION SEEDING TO PROMOTE GERMINATION AND RE-GROWTH.
6. CONTRACTOR TO PLACE TRENCH SOILS ON THE UPHILL SIDE OF THE TRENCH.
7. CONSTRUCTION TRAFFIC TO UTILIZE PRIVATE DRIVE. PUBLIC ACCESS ROUTE TO THE SOUTH SHALL BE INSPECTED PRIOR TO THE START OF ANY CONSTRUCTION. ANY DAMAGE TO THE ACCESS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE REPAIRED AND OR REPLACED PRIOR TO THE ISSUANCE OF THE CERTIFICATE OF OCCUPANCY. NOTE, IF NOT INSPECTED AND IDENTIFIED, ANY DAMAGE MAY HOLD UP ISSUANCE OF A CERTIFICATE OF OCCUPANCY UNTIL OFF-SITE (PUBLIC ACCESS) CONDITION IS ACCEPTABLE TO THAT PROPERTY OWNER.
8. LOT PROTECTION (LP) IS REQUIRED ON COMMERCIAL LOTS WHEN LANDSCAPING IS NOT POSSIBLE.
9. ALL WORK WITHIN PUBLIC RIGHT-OF-WAY (ROW) WILL REQUIRE A TOWN ROW PERMIT. INITIAL AND INTERIM CBMPS FOR WORK WITHIN THE TOWN'S ROW SHALL BE COORDINATED WITH THE TOWN'S ENVIRONMENTAL INSPECTOR PRIOR TO THE BEGINNING OF ANY ROW WORK.
10. ANY ONSITE BULK FUEL STORAGE REQUIRES A FIRE LIFE SAFETY PERMIT FROM THE TOWN OF PARKER PRIOR TO INSTALLATION.

BENCHMARK:

ELEVATIONS ARE BASED UPON A POST-PROCESSED STATIC GNSS CONNECTION MADE TO DOUGLAS COUNTY GIS POINT 1.051038 BEING A FOUND 3.25" ALLOY CAP STAMPED "DOUGLAS COUNTY - 1.051038 - SECONDARY CONTROL MONUMENT" UTILIZING GEOID18 TO MODEL THE ELLIPSOID SEPARATION AND HAVING A PUBLISHED ELEVATION OF: 6053.87 FEET (NAVD 88). SITE BENCH MARK: FWS CONTROL POINT 501 BEING A SET NO.5 REBAR WITH A 2" ALLOY CAP STAMPED "FWS CONTROL POINT" LOCATED APPROXIMATELY 144.5' SOUTH OF THE INTERSECTION OF THE CENTER-LINES OF NORTH PINERY PARKWAY AND ALPINE PHLOX STREET AND 23' WEST OF THE CENTER-LINE OF ALPINE PHLOX STREET HAVING AN ESTABLISHED ELEVATION OF 6069.33' NAVD 88.



INTERIM & FINAL PHASES

SCALE IN FEET
0 30 60

IF BAR DOES NOT MEASURE
1 INCH THEN DRAWING IS
NOT TO SCALE

REFER TO SHEET C3.4 FOR BMP LEGEND AND SYMBOLS

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TOWN OF PARKER, DIRECTOR OF ENGINEERING/PUBLIC WORKS — DATE

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2293 - PARKER, COLORADO
BAYOU GULCH RD AND PINERY PKWY
EROSION AND STORMWATER CONTROL PLAN - OFFSITE

KG PROJECT TEAM: EES
RDM: RF
SDM: DG
CPM: BS

REVISIONS

	DATE	REVISION DESCRIPTION

DATE: 07-12-2023

SHEET NUMBER:
C3.3
18 OF 43

P:\KUM & GO\CO, PARKER_2293 - PINERY AND BAYOU GULCH\08 CAD\CD\2293 - 16A - CBMP PLAN - OFFSITE.DWG

CRITERIA PLAN 04/2020

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

1. GRADING, DRILLING, CLEARING, EXCAVATING, BACK-FILLING, SOIL STRIPPING, SOIL IMPORTING EXPORTING OR ANY OTHER FORM OF SOIL DISTURBANCE SHALL NOT COMMENCE UNTIL A TOWN OF PARKER GRADING/EXCAVATION PERMIT HAS BEEN ISSUED.

2. THE TOWN OF PARKER GRADING/EXCAVATION PERMIT IS VALID FOR A PERIOD OF 2 YEARS FROM THE DATE OF ISSUANCE. ANY LAPSE IN PERMIT COVERAGE MAY RESULT IN THE ISSUANCE OF A STOP WORK ORDER AND/OR FINES.

3. ALL EROSION AND SEDIMENT CONTROL BMPS SHALL BE INSTALLED ACCORDING TO THE CBMP PLAN INSTALLATION NOTES AND DETAILS AND/OR PERMITTED VARIANCES. ALL MATERIALS, WORKMANSHIP AND INSTALLATION METHODS ARE SUBJECT TO INSPECTION BY THE TOWN'S INSPECTOR. THE TOWN OF PARKER RESERVES THE RIGHT TO ACCEPT OR REJECT ANY SUCH MATERIALS, WORKMANSHIP AND/OR INSTALLATION METHODS THAT DO NOT CONFORM TO THE CBMP PLAN AND/OR PERMITTED VARIANCES.

4. THE EROSION CONTROL SUPERVISOR SHALL REVISE OR MODIFY THE EROSION AND SEDIMENT CONTROL MEASURES IF IT BECOMES APPARENT THAT THE ORIGINAL PLAN IS INADEQUATE, OR AS A RESULT OF DEFICIENCIES IDENTIFIED DURING INSPECTIONS PERFORMED BY THE TOWN'S INSPECTOR.

5. THE INSTALLATION OF ADDITIONAL EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPS) MAY BE REQUIRED OF THE EROSION CONTROL SUPERVISOR, PROPERTY OWNER, SITE DEVELOPER, CONTRACTOR AND/OR THEIR AUTHORIZED AGENTS AT ANY TIME THROUGHOUT THE DURATION OF THE PROJECT CONSTRUCTION AND/OR SUBSEQUENT REVEGETATION PERIOD.

6. THE EROSION CONTROL SUPERVISOR SHALL BE RESPONSIBLE FOR ENSURING THAT THE SITE REMAINS IN COMPLIANCE WITH THE NOTICE OF NUISANCE REPORTS (a.k.a, CONSTRUCTION SITE RUNOFF CONTROL INSPECTION REPORTS), APPROVED CBMP PLAN(S) AND THE TOWN OF PARKER STORM DRAINAGE AND ENVIRONMENTAL CRITERIA MANUAL.

7. THE EROSION CONTROL SUPERVISOR SHALL BE READILY AVAILABLE TO DISCUSS AND CORRECT ANY PROBLEMS THAT MAY ARISE RELATING TO GRADING, EROSION AND SEDIMENT CONTROL.

8. IF IT IS ANTICIPATED THAT ALL OR A PORTION OF THE PROJECT WILL OCCUR DURING SEASONS SUSCEPTIBLE TO SNOWFALL, THE USE OF CERTAIN EROSION AND SEDIMENT CONTROL BMPS ADJACENT TO PUBLIC ROADWAYS MAY NEED TO BE RECONSIDERED DUE TO THE NATURE OF SNOW REMOVAL OPERATIONS. AN APPROVED ALTERNATIVE MAY BE NECESSARY TO MINIMIZE DAMAGE FROM THESE OPERATIONS. THE TOWN OF PARKER ASSUMES NO RESPONSIBILITY FOR DAMAGE TO ANY BMPS AS A RESULT OF SNOW PLOWING AND SNOW REMOVAL.

9. AREAS OF LAND DISTURBANCE EQUAL TO 40 ACRES OR GREATER SHALL NOT BE EXPOSED FOR MORE THAN 30 CONSECUTIVE DAYS WITHOUT TEMPORARY OR PERMANENT STABILIZATION.

10. AUTHORIZED EXEMPTIONS MAY BE ALLOWED TO THE 40-ACRE LIMIT FOR REMOVAL AND STORAGE OF CUT MATERIAL WHERE (A) GEOTECHNICAL LIMITATIONS RESTRICT THE USE OF TEMPORARY OR PERMANENT STABILIZATION OF THE STORED MATERIAL (E.G., SWELLING SOILS, ROCK) AND (B) WHEN THE OWNER CAN DEMONSTRATE THAT THE 40-ACRE LIMIT IS PHYSICALLY AND/OR FINANCIALLY IMPRACTICABLE. FOR SITES GRANTED THIS EXEMPTION, A PHASING AND EARTHWORK QUANTITIES PLAN SHALL BE SUBMITTED TO THE PUBLIC WORKS DEPARTMENT AND APPROVED PRIOR TO THE COMMENCEMENT OF LAND DISTURBANCE ACTIVITIES. SUBMITTAL REQUIREMENTS INCLUDE:

    (I) PHASING PLAN SHOWING CUT AND FILL VOLUMES AND LOCATIONS FOR EACH PHASE AND PROJECT TOTALS.

    (II) EARTHWORK QUANTITY PLAN SHOWING CUT AND FILL VOLUMES AND LOCATIONS FOR EACH PHASE AND PROJECT TOTALS.

    (III) BMP PLAN SHOWING SPECIFIC EROSION AND SEDIMENT CONTROLS FOR EACH PHASE.

Town of Parker COLORADO | CBMP CONSTRUCTION BEST MANAGEMENT PRACTICES | GEN NOTES 1 OF 4 Oct. 2013

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

11. ANY EROSION AND SEDIMENT CONTROL BMPS THAT ARE DAMAGED OR IN NEED OF MAINTENANCE OR REPLACEMENT SHALL BE CORRECTED AS SOON AS POSSIBLE, IMMEDIATELY IN MOST CASES.

12. ALL DEFICIENCIES LISTED ON THE NOTICE OF NUISANCE FORM SHALL BE COMPLETED AS SOON AS POSSIBLE, IMMEDIATELY IN MOST CASES. ALL REQUIRED ACTIONS MUST BE IN THE CORRECTED FORM DURING THE FOLLOW-UP INSPECTION.

13. THE EROSION CONTROL SUPERVISOR IS RESPONSIBLE FOR ENSURING THAT ALL STREETS, CURBS, GUTTERS, SIDEWALKS, DRIVEWAYS, PARKING LOTS, ALLEYS, TRICKLE CHANNELS, AND/OR OTHER IMPERVIOUS SURFACES IMPACTED BY CONSTRUCTION ACTIVITIES ARE THOROUGHLY CLEANED THROUGHOUT THE DAY IF THEY BECOME SOILED. THESE AREAS MUST ALSO BE THOROUGHLY CLEAN BEFORE THE END OF THE WORK DAY.

14. BULK STORAGE STRUCTURES FOR PETROLEUM PRODUCTS AND OTHER CHEMICALS SHALL HAVE ADEQUATE PROTECTION SO AS TO CONTAIN ALL SPILLS AND PREVENT ANY SPILLED MATERIAL FROM ENTERING STATE WATERS.

15. ALL TRASH RECEPTACLES ON SITE SHALL BE FREE OF HOLES, CRACKS, GAPS, AND/OR OTHER PERMEABLE AREAS THAT MAY ALLOW FOR THE DISCHARGE OF POLLUTANTS.

16. ALL TRASH RECEPTACLES ON SITE SHALL BE EMPTIED AT A FREQUENCY AS TO ENSURE THAT THE TRASH REMAINS CONFINED TO THE RECEPTACLE.

17. ALL LOOSE TRASH AND LITTER ASSOCIATED WITH THE PROJECT MUST BE REMOVED AND PROPERLY DISCARDED ON A DAILY BASIS.

18. ALL PORTABLE TOILETS SHALL BE STAKED DOWN AT ALL TIMES USING U-SHAPED REBAR STAKES. THE PORTABLE TOILETS SHALL ALSO BE PLACED A MINIMUM DISTANCE OF 10 FEET FROM ALL IMPERVIOUS SURFACES, INCLUDING, BUT NOT LIMITED TO STREETS CURBS, GUTTERS, SIDEWALKS AND PARKING LOTS.

19. THE EROSION CONTROL SUPERVISOR SHALL MAINTAIN STRICT ADHERENCE TO THE LIMITS OF CONSTRUCTION AND PROPERTY LIMITS FOR ALL MATERIALS, VEHICLES AND EQUIPMENT. FAILURE TO ABIDE BY THIS REQUIREMENT MAY RESULT IN THE ISSUANCE OF A STOP WORK ORDER.

20. ALL CONSTRUCTION TRAFFIC MUST ENTER AND EXIT THE SITE THROUGH THE APPROVED ACCESS POINT(S). A VEHICLE TRACKING CONTROL PAD IS REQUIRED AT ALL APPROVED ACCESS POINTS TO THE SITE. EXCEPTIONS MAY BE CONSIDERED FOR CONSTRUCTION ACTIVITY OCCURRING IMMEDIATELY ADJACENT TO PAVED AREAS AND WHERE ALTERNATIVE BMP'S ARE IMPLEMENTED. SUCH ACTIVITY MAY INCLUDE, BUT NOT BE LIMITED TO RESIDENTIAL CONSTRUCTION, UTILITY CONSTRUCTION, ETC.

21. NO PERMANENT SLOPES GREATER THAN 3:1 ARE ALLOWED.

22. ALL PERMANENT SLOPES STEEPER THAN 4:1 (HORIZONTAL TO VERTICAL) SHALL REQUIRE EROSION CONTROL BLANKET(S). TEMPORARY SLOPES IN TEMPORARY SEDIMENT BASINS THAT ARE STEEPER THAN 4:1 MAY REQUIRE EROSION CONTROL BLANKETS.

23. THE EROSION CONTROL SUPERVISOR SHALL BE RESPONSIBLE FOR CORRECTING ANY ADVERSE IMPACTS THAT OCCUR TO NEIGHBORING PROPERTIES. THE EROSION CONTROL SUPERVISOR MUST OBTAIN PERMISSION FROM LAND OWNERS PRIOR TO ENTERING SUCH PROPERTY.

24. A WATER SOURCE SHALL BE AVAILABLE ONSITE DURING CONSTRUCTION ACTIVITIES, AND UTILIZED TO MINIMIZE FUGITIVE DUST. ALTERNATIVE BMPS MAY BE REQUIRED IF INITIAL ATTEMPTS TO SUPPRESS DUST ARE UNSUCCESSFUL.

Town of Parker COLORADO | CBMP CONSTRUCTION BEST MANAGEMENT PRACTICES | GEN NOTES 2 OF 4 Oct. 2013

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

25. ALL CHEMICAL OR HAZARDOUS MATERIAL SPILLS, INCLUDING CONCRETE WASHOUT WATER, WHICH MAY ENTER WATERS OF THE STATE OF COLORADO, WHICH INCLUDES BUT ARE NOT LIMITED TO, SURFACE WATER, GROUND WATER, DRY GULLIES OR STORM SEWERS LEADING TO SURFACE WATER, SHALL BE IMMEDIATELY REPORTED TO THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT (CDPHE) PER 25-8-601, AND THE TOWN OF PARKER. RELEASES OF PETROLEUM PRODUCTS AND CERTAIN HAZARDOUS SUBSTANCES LISTED UNDER THE FEDERAL CLEAN WATER ACT (40 CFR PART 116) MUST BE REPORTED TO THE NATIONAL RESPONSE CENTER AND THE CDPHE. SPILLS THAT POSE AN IMMEDIATE SAFETY HAZARD SHALL BE REPORTED TO 911.

26. THE CLEANING OF CONCRETE TRUCKS AND EQUIPMENT IS RESTRICTED TO THE APPROVED CONCRETE WASHOUT LOCATION ON THE JOB SITE. CONCRETE WASH WATER SHALL NOT BE DISCHARGED TO STATE WATERS OR STORM SEWER SYSTEMS.

27. VEHICLE AND EQUIPMENT DEGREASING IS PROHIBITED ON THE JOB SITE.

28. ALL DEWATERING ON SITE SHALL BE COORDINATED WITH THE TOWN'S INSPECTOR. A STATE PERMIT MAY BE REQUIRED FOR DEWATERING. THE EROSION CONTROL SUPERVISOR IS RESPONSIBLE FOR OBTAINING AND ADHERING TO ALL APPLICABLE PERMITS.

29. HYDRAULIC SEEDING AND/OR HYDRAULIC MULCHING ARE ONLY ALLOWED IN AREAS UNDER TEMPORARY OR PERMANENT IRRIGATION OR FOR THE PURPOSE OF TEMPORARY SOIL STABILIZATION.

30. APPLICABLE CONSTRUCTION BMPS SHALL REMAIN IN PLACE AND PROPERLY MAINTAINED UNTIL ALL LANDSCAPING HAS BEEN INSTALLED AND THE DESIRABLE VEGETATION HAS REACHED A POINT IN WHICH EROSION AND SEDIMENTATION IS NO LONGER A CONCERN AS DETERMINED BY THE TOWN'S INSPECTOR.

31. GRADING SECURITY RELEASE REQUIREMENTS:

    1) DEVELOPABLE PROPERTY: IN ORDER FOR THE GRADING SECURITY TO BE RELEASED, THE SITE MUST MEET ITEMS A-H OR ITEM I (BELOW).

        A. ALL SOIL-DISTURBING ACTIVITIES ASSOCIATED WITH THE GRADING PERMIT HAVE PERMANENTLY CEASED.
        B. UNIFORM PERENNIAL VEGETATION COVER HAS BEEN ESTABLISHED WITH AN INDIVIDUAL PLANT DENSITY OF AT LEAST SEVENTY PERCENT (70%) OF PRE-DISTURBANCE LEVELS.
        C. ALL CBMPS HAVE BEEN PROPERLY REMOVED FROM THE SITE.
        D. IF ANY EROSION IS PRESENT, IT IS INSIGNIFICANT AND IS NOT LEAVING THE SITE AND/OR LEADING INTO ANY ON-SITE DRAINAGE INFRASTRUCTURE THAT MAY CONVEY SURFACE WATER OFF SITE.
        E. WEEDS REPRESENT NO MORE THAN FIFTY PERCENT (50%) OF THE TOTAL VEGETATION ON THE SITE.
        F. NO WEEDS ARE PRESENT FROM LIST A OF THE COLORADO NOXIOUS WEED LIST, AS AMENDED.
        G. THE SITE IS PREDOMINANTLY FREE OF WEEDS FROM LIST B OF THE COLORADO NOXIOUS WEED LIST, AS AMENDED.
        H. WEEDS ARE EVENLY DISTRIBUTED THROUGHOUT THE SITE WITH NO LARGE CONCENTRATIONS PRESENT.
        I. A NEW GRADING PERMIT AND REPLACEMENT SECURITY HAS BEEN SUBMITTED AND APPROVED

    FOR THE APPLICABLE SITE OR ASSIGNMENT AS PROVIDED BY SECTION 11.10.150 OF THE TOWN OF PARKER MUNICIPAL CODE. IT IS THE PROPERTY OWNER'S OBLIGATION AT THE TIME OF CLOSING TO ENSURE THAT THE NEW SITE OWNER HAS PROVIDED THE TOWN WITH A REPLACEMENT SECURITY.

Town of Parker COLORADO | CBMP CONSTRUCTION BEST MANAGEMENT PRACTICES | GEN NOTES 3 OF 4 Oct. 2013

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

2) NONDEVELOPABLE PROPERTY: IN ORDER FOR THE GRADING SECURITY TO BE RELEASED, THE SITE MUST MEET ITEMS A-H AND J, OR ITEMS I AND J (BELOW).

    A. ALL SOIL-DISTURBING ACTIVITIES ASSOCIATED WITH THE GRADING PERMIT HAVE PERMANENTLY CEASED.
    B. ALL CBMPS HAVE BEEN PROPERLY REMOVED FROM THE SITE.
    C. EROSION IS NEGLIGIBLE, IF EVEN PRESENT.
    D. THE VEGETATION REPRESENTS A PERENNIAL STAND OF A DENSE, UNIFORM SURFACE OF GRASS WITH NO AREA GREATER THAN ONE (1) SQUARE FOOT THAT IS BARREN OF DESIRABLE VEGETATION. INFREQUENT, WIDELY SCATTERED AREAS WHERE NATIVE VEGETATION HAS NOT YET TAKEN HOLD MAY QUALIFY FOR ACCEPTANCE AT THE DISCRETION OF THE TOWN.
    E. WEEDS REPRESENT NO MORE THAN TEN PERCENT (10%) OF THE TOTAL VEGETATION ON SITE.
    F. NO WEEDS ARE PRESENT FROM LIST A OF THE COLORADO NOXIOUS WEED LIST, AS AMENDED.
    G. THE SITE IS PREDOMINANTLY FREE OF WEEDS FROM LIST B OF THE COLORADO NOXIOUS WEED LIST, AS AMENDED.
    H. WEEDS ARE EVENLY DISTRIBUTED THROUGHOUT THE SITE WITH NO LARGE CONCENTRATIONS PRESENT.
    I. A NEW GRADING PERMIT AND REPLACEMENT SECURITY HAS BEEN SUBMITTED AND APPROVED FOR THE APPLICABLE SITE OR THE GRADING PERMIT HAS BEEN ASSIGNED AS PROVIDED BY SECTION 11.10.150 OF THE TOWN OF PARKER MUNICIPAL CODE. IT IS THE PROPERTY OWNER'S OBLIGATION, AT THE TIME OF CLOSING ON THE SALE OF A SITE THAT IS SUBJECT TO A GRADING PERMIT, TO ENSURE THAT THE NEW PROPERTY OWNER HAS PROVIDED THE TOWN WITH A REPLACEMENT SECURITY.
    J. ALL KNOWN DRAINAGE ISSUES ASSOCIATED WITH THE PROJECT HAVE BEEN MITIGATED AND A SUFFICIENT AMOUNT OF TIME HAS PASSED TO ENSURE THAT SUCH ISSUES HAVE BEEN CORRECTED. THIS REQUIREMENT DOES NOT INCLUDE THOSE DRAINAGE ISSUES ORIGINATING ON RESIDENTIAL LOTS.

(D) NOXIOUS WEEDS MUST BE CONTROLLED AS PROVIDED UNDER STATE LAW AND SECTION 6.01.260 OF THE TOWN OF PARKER MUNICIPAL CODE. FAILURE TO CONTROL NOXIOUS WEEDS ON THE SITE MAY CONSTITUTE A NUISANCE, SUBJECT TO THE PENALTIES CONTAINED IN THE CODE.

DEFINITIONS:

DEVELOPABLE PROPERTY MEANS ANY LAND THAT HAS BEEN GRADED AND IS PART OF A PLATTED LOT OR PLATTED TRACT OF RECORD, THAT WAS PLATTED FOR FUTURE DEVELOPMENT, INCLUDING RESIDENTIAL HOME CONSTRUCTION OR PUBLIC IMPROVEMENTS.

NONDEVELOPABLE PROPERTY MEANS LAND THAT HAS BEEN GRADED AND WILL NOT BE FURTHER DISTURBED AS PART OF ANY FUTURE DEVELOPMENT, EXAMPLES INCLUDE, BUT ARE NOT LIMITED TO: PARKS, OPEN SPACE, HOMEOWNER ASSOCIATION OR BUSINESS ASSOCIATION PLATTED TRACTS, DETENTION PONDS AND DRAINAGEWAYS.

32. FAILURE TO COMPLY WITH ANY OF THE REQUIREMENTS DESCRIBED IN THIS SECTION MAY RESULT IN THE ISSUANCE OF A NOTICE OF INTENT TO ISSUE A STOP WORK ORDER, A STOP WORK ORDER AND/OR THE REMEDIES/PENALTIES DESCRIBED IN CHAPTER 11.10 OF THE TOWN OF PARKER MUNICIPAL CODE.

33. ANY PERSON CONVICTED OF VIOLATING ANY PROVISION OF THE TOWN OF PARKER, GRADING & EARTH MOVEMENT SECTION OF THE MUNICIPAL CODE SHALL BE GUILTY OF A MISDEMEANOR AND, UPON CONVICTION, BE PUNISHED BY A FINE OF NOT MORE THAN FOUR HUNDRED NINETY NINE DOLLARS ($499.00) FOR EACH SEPARATE OFFENSE, EACH DAY A VIOLATION CONTINUES SHALL CONSTITUTE A SEPARATE OFFENSE. THE TOWN ALSO MAY SEEK IN MUNICIPAL COURT AN INJUNCTION, ABATEMENT, RESTITUTION OR ANY OTHER REMEDY TO PREVENT, ENJOIN, ABATE OR REMOVE THE VIOLATION. A PERSON CONVICTED OF VIOLATING CHAPTER 11.10 OF THE TOWN OF PARKER MUNICIPAL CODE SHALL BE LIABLE FOR THE ACTUAL COST OF REHABILITATING THE PROPERTY. THE COSTS MAY BE RECOVERED AS RESTITUTION IN MUNICIPAL COURT PROCEEDINGS OR IN A SEPARATE CIVIL ACTION.

34. THE TOWN OF PARKER RESERVES THE RIGHT TO ALLOW MODIFICATIONS AND SUBSTITUTIONS TO THE CBMP NOTES AND DETAILS WHEN SUCH MODIFICATIONS AND SUBSTITUTIONS OFFER THE SAME LEVEL OF PROTECTION AS THE STANDARD REQUIREMENTS BASED UPON THE SPECIFIC SITUATION, AS DETERMINED BY TOWN STAFF. DUE TO THE INSIGNIFICANCE AND REGULARITY OF SUCH MODIFICATIONS AND SUBSTITUTIONS, THE APPROVAL OF SUCH VARIATIONS MAY NOT BE DOCUMENTED BY TOWN STAFF.

Town of Parker COLORADO | CBMP CONSTRUCTION BEST MANAGEMENT PRACTICES | GEN NOTES 4 OF 4 Oct. 2013

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

CD	CHECK DAM	
CF	CONSTRUCTION FENCE	
CP	CULVERT PROTECTION	
CWA	CONCRETE WASHOUT AREA	
D	DEWATERING	
DD	DIVERSION DITCH	
DP	DETENTION POND PROTECTION	
DTC	DEBRIS TRASH CONTROL	
ECB	EROSION CONTROL BLANKET	
IPAN	INLET PROTECTION FOR AREA INLETS NOT IN PAVEMENT	
IPAP	INLET PROTECTION FOR AREA INLETS IN PAVEMENT	
IPCOG	INLET PROTECTION, CURB ON-GRADE, TYPE R INLET	
IPCOS	INLET PROTECTION, CURB ON SUMP, TYPE R INLET	

Town of Parker COLORADO | CBMP CONSTRUCTION BEST MANAGEMENT PRACTICES | LEGEND 1 OF 3 Oct. 2013

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

LP	LOT PROTECTION	
MWP	MASONRY WORK PROTECTION	
PTP	PORTABLE TOILET PROTECTION	
RCSC	ROUGH CUT STREET CONTROL	
RS	ROCK SOCK	
RSS	ROCK SOCK IN SWALE	
SB	STRAW BALE	
SCL	SEDIMENT CONTROL LOGS	
SF	SILT FENCE	
SMC	SEEDING, MULCHING AND CRIMPING	
SR	SURFACE ROUGHING	
SSA	STABILIZED STAGING AREA	
STP	SIDEWALK TRANSITION PROTECTION	

Town of Parker COLORADO | CBMP CONSTRUCTION BEST MANAGEMENT PRACTICES | LEGEND 2 OF 3 Oct. 2013

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

TI	TEMPORARY IRRIGATION	
TSB	TEMPORARY SEDIMENT BASIN	
VTC	VEHICLE TRACKING CONTROL	

Town of Parker COLORADO | CBMP CONSTRUCTION BEST MANAGEMENT PRACTICES | LEGEND 3 OF 3 Oct. 2013

THE TOWN OF PARKER REVIEW CONSTITUTES GENERAL COMPLIANCE WITH THE TOWN'S STANDARDS AND APPROVED VARIANCES, SUBJECT TO THESE PLANS BEING STAMPED, SIGNED, AND DATED BY THE PROFESSIONAL ENGINEER OF RECORD. REVIEW BY THE TOWN DOES NOT CONSTITUTE APPROVAL OF THE PLAN DESIGN OR ACCURACY AND CORRECTNESS OF ENGINEERING CALCULATIONS. ERRORS IN THE DESIGN OR CALCULATIONS REMAIN THE RESPONSIBILITY OF THE REGISTERED PROFESSIONAL ENGINEER WHOSE STAMP AND SIGNATURE ARE AFFIXED TO THIS DOCUMENT. THIS REVIEW DOES NOT CONSTITUTE APPROVAL OF ANY PRIVATE ON-SITE IMPROVEMENTS WHICH MAY BE SHOWN. CONSTRUCTION CANNOT COMMENCE UNTIL ALL REQUIRED DRAINAGE/TRAFFIC REPORT(S), FINAL DEVELOPMENT PLAN(S), SPECIAL REVIEW(S), GRADING PERMIT, AND/OR OTHER PERMITS ARE COMPLETE, APPROVED AND ON FILE WITH THE TOWN OF PARKER.

TOWN OF PARKER, DIRECTOR OF ENGINEERING/PUBLIC WORKS _____ DATE _____

EES ENTITLEMENT AND ENGINEERING SOLUTIONS, INC
3801 E. Florida Avenue, Suite 425
Denver, CO 80210
303-572-7997 www.ees.us.com

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Kum & Go.
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2293 - PARKER, COLORADO
BAYOU GULCH RD AND PINERY PKWY
EROSION AND STORMWATER CONTROL
DETAILS

KG PROJECT TEAM: EES
RDM: RF
SDM: DG
CPM: BS

REVISIONS	DATE	REVISION DESCRIPTION
△		

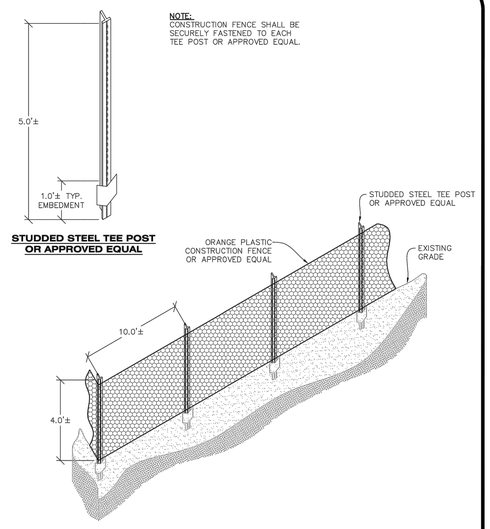
DATE: 07-12-2023

SHEET NUMBER: C3.4
19 OF 43

P:\KUM & GO\CO, PARKER_2293 - PINERY AND BAYOU GULCH\08 CAD\CD\2293 - 17 - CBMP DETAILS 1.DWG

CRITERIA PLAN 04/2020

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.



STUDDED STEEL TEE POST OR APPROVED EQUAL

CF **CONSTRUCTION FENCE**

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

CONSTRUCTION FENCE INSTALLATION NOTES

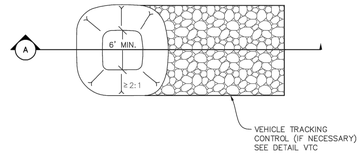
1. THE CONSTRUCTION FENCE SHALL BE SECURELY FASTENED TO EACH POST OR APPROVED EQUAL.

CONSTRUCTION FENCE INSPECTION AND MAINTENANCE NOTES

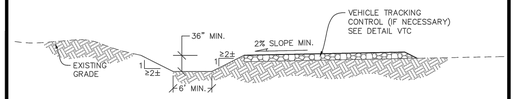
1. THE EROSION CONTROL SUPERVISOR SHALL REGULARLY INSPECT THE CONSTRUCTION FENCE AND MAKE ANY NECESSARY REPAIRS.
2. CONSTRUCTION FENCE SHALL BE REPAIRED WHEN THE FENCING MATERIAL FALLS OUT OF COMPLIANCE WITH THE NOTES AND DETAILS.

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

NOTE:
A VTC PAD IS NOT NECESSARY IF THERE IS ANOTHER VTC PAD IN BETWEEN THE CWA AND ROADWAY, PARKING LOT, DRIVE AISLES, ETC.



PLAN VIEW



SECTION A

CWA **CONCRETE WASHOUT AREA**

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

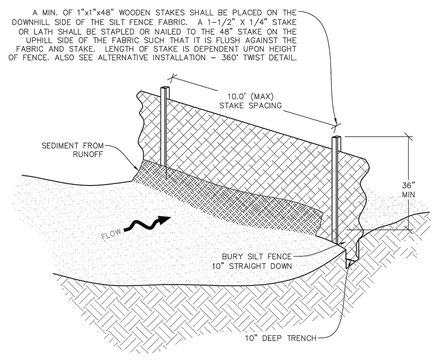
CONCRETE WASHOUT AREA INSTALLATION NOTES

1. CONCRETE WASHOUT AREAS SHALL BE INSTALLED PRIOR TO ANY CONCRETE PLACEMENT ON SITE.
2. A VEHICLE TRACKING CONTROL PAD IS REQUIRED AT THE ACCESS POINT TO ALL CONCRETE WASHOUT AREAS WHEN NO OTHER VTC PAD EXISTS IN BETWEEN THE CWA AND THE ROADWAY.
3. IF GROUNDWATER IS ENCOUNTERED WHEN DIGGING THE PIT, A NEW LOCATION SHOULD BE SELECTED. IF NO OTHER LOCATION CAN BE FOUND, A ONE-PIECE IMPERVIOUS LINER SHALL BE REQUIRED ALONG THE BOTTOM AND SIDES OF THE SUBSURFACE PIT.

CONCRETE WASHOUT AREA INSPECTION AND MAINTENANCE NOTES

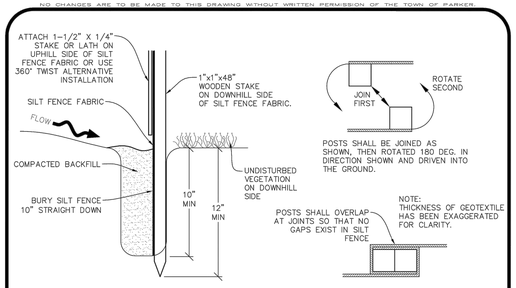
1. THE EROSION CONTROL SUPERVISOR SHALL REGULARLY INSPECT THE CONCRETE WASHOUT AREA.
2. CONCRETE WASHOUT MATERIALS SHALL BE REMOVED BEFORE ITS CAPACITY HAS BEEN REACHED.
3. CONCRETE WASHOUT AREAS SHALL BE ENLARGED AS NECESSARY TO MAINTAIN CAPACITY FOR WASTED CONCRETE AND ASSOCIATED WASH WATER.
4. CONCRETE WASHOUT WATER, WASTED PIECES OF CONCRETE AND ALL OTHER DEBRIS IN THE SUBSURFACE PIT SHALL BE TRANSPORTED FROM THE JOB SITE AS NECESSARY TO ENSURE ADEQUATE CAPACITY.
5. CONCRETE WASHOUT AREAS SHALL REMAIN IN PLACE UNTIL ALL CONCRETE FOR THE PROJECT IS PLACED.
6. WHEN CONCRETE WASHOUT AREAS ARE REMOVED, THE TOWN'S INSPECTOR MAY REQUIRE EXCAVATIONS TO BE FILLED WITH SUITABLE COMPACTED BACKFILL AND TOPSOIL, ANY DISTURBED AREAS ASSOCIATED WITH THE INSTALLATION, MAINTENANCE, AND/OR REMOVAL OF THE CONCRETE WASHOUT AREAS SHALL BE ROUGHENED, SEEDED, MULCHED, AND CRIMPED PER THE TOWN'S SPECIFICATIONS (SEE DETAIL SMC).

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—x—x— SF **SILT FENCE**

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INSTALLATION DETAIL **JOINT SECTIONS**



STEP 1 **STEP 2**

ALTERNATIVE INSTALLATION - 360° TWIST

—x—x— SF **SILT FENCE**

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SILT FENCE INSTALLATION NOTES

1. SEE CBMP PLAN FOR LOCATION(S) OF SILT FENCE.
2. ALL SILT FENCE SHALL BE INSTALLED IN GOOD CONDITION AND FREE OF ANY DEFECTS INCLUDING RIPS, HOLES AND OBVIOUS WEAR.
3. A UNIFORM 10" DEEP ANCHOR TRENCH SHALL BE EXCAVATED USING A TRENCHER.
4. A 10" DEEP ANCHOR SLIT SHALL BE FORMED IF USING A STATIC SLICING METHOD.
5. EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF THE ANCHOR TRENCH.
6. ANCHOR TRENCH SHALL BE GENERALLY FREE OF ROCKS OR OTHER DEBRIS PRIOR TO THE PLACEMENT OF THE SILT FENCE.
7. THE ANCHOR TRENCH SHALL BE THOROUGHLY BACKFILLED WITH SOIL THAT IS GENERALLY FREE OF ROCKS AND DEBRIS.
8. ALL EXCAVATED MATERIAL SHALL BE PLACED ON THE UP-GRADIENT SIDE OF THE SILT FENCE.
9. STAKES SHALL BE POSITIONED ON THE DOWNHILL SIDE OF THE SILT FENCE FABRIC AND PLACED ON 10.0' CENTERS OR LESS. STAKES SHALL BE EMBEDDED A MINIMUM OF 12" INTO THE GROUND. A WOODEN LATH SHALL BE ATTACHED TO THE OPPOSING (UPHILL) SIDE OF THE STAKE FOR ADDED STRENGTH AND SUPPORT. THE LATH SHALL HAVE THE FOLLOWING DIMENSIONS: 1"x¼"x24".
10. SILT FENCE SHALL BE PULLED TIGHT AS IT IS ANCHORED TO THE STAKES. THERE SHOULD NOT BE SIGNIFICANT SAGGING ALONG ANY PORTION OF THE SILT FENCE AFTER IT HAS BEEN ANCHORED TO THE STAKES.
11. SILT FENCE FABRIC SHALL BE ANCHORED TO THE STAKES AND LATHS USING STAPLES OR NAILS OF AN APPROXIMATE LENGTH. ENOUGH STAPLES AND NAILS SHOULD BE PLACED ALONG THE LATH TO ENSURE PROPER ATTACHMENT.
12. SILT FENCE FABRIC SHALL MEET THE FOLLOWING MANDATORY REQUIREMENTS:

PROPERTIES	TEST METHOD	MANDATORY REQUIREMENTS
GRAB TENSILE STRENGTH	ASTM D 4632	≥ 124 LBS
MULLEN BURST STRENGTH	ASTM D 3786	≥ 300 PSI
PUNCTURE STRENGTH	ASTM D 4833	≥ 60 LBS
TRAPEZOID TEAR STRENGTH	ASTM D 4533	≥ 65 LBS
UV RESISTANCE	ASTM D 4355	≥ 80% AT 500 HOURS OF UV EXPOSURE
FLOW RATE	ASTM D 4491	≥ 10 GAL/MIN/FT2

13. AN ORIGINAL PRODUCT SPECIFICATION SHEET FROM THE SILT FENCE MANUFACTURER SHALL BE MADE AVAILABLE AT THE REQUEST OF THE TOWN'S INSPECTOR. THE PRODUCT SPECIFICATION SHEET SHALL PROVIDE THE RESULTS FOR THE TEST METHODS ABOVE.
14. SILT FENCE JOINTS SHALL BE CONNECTED ACCORDING TO THE ATTACHED DRAWING.
15. SILT FENCE THAT IS INSTALLED BEHIND CURBS AND SIDEWALKS MUST BE DONE SO THAT NO MORE THAN A 2" GAP EXISTS BETWEEN CONCRETE AND THE SILT FENCE. EROSION CONTROL BLANKETING (ECB) BETWEEN THE GAP MAY BE REQUIRED IN INSTANCES WHERE THIS DOES NOT OCCUR.

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REVISIONS

△	DATE	REVISION DESCRIPTION

DATE: 07-12-2023

SHEET NUMBER: C3.5
20 OF 43

P:\KUM & GO\CO, PARKER_2293 - PINERY AND BAYOU GULCH\08 CAD\CD\2293 - 18 - CBMP DETAILS 2.DWG

CRITERIA PLAN 04/2020

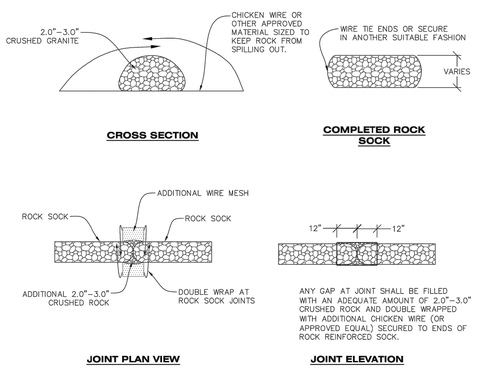
NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

SILT FENCE INSPECTION AND MAINTENANCE NOTES

1. THE EROSION CONTROL SUPERVISOR SHALL REGULARLY INSPECT THE SILT FENCE.
2. ACCUMULATED SEDIMENT SHALL BE REMOVED REGULARLY.
3. SILT FENCE SHALL REMAIN IN PLACE AND PROPERLY MAINTAINED UNTIL VEGETATIVE COVER HAS REACHED A CONSISTENT DENSITY OF AT LEAST 70% OF FULL VEGETATIVE COVER AND EROSION AND SEDIMENTATION IS NO LONGER A POSSIBILITY AS DETERMINED BY THE TOWN'S INSPECTOR OR AS OTHERWISE DIRECTED BY THE TOWN'S INSPECTOR.
4. SILT FENCE SHALL BE REPLACED WHEN THERE ARE ANY SIGNS OF WEAR AND/OR DAMAGE.
5. WHEN THE SILT FENCE IS REMOVED, ANY DISTURBED AREAS ASSOCIATED WITH THE INSTALLATION, MAINTENANCE, AND/OR REMOVAL OF THE SILT FENCE MAY NEED TO BE ROUGHENED, SEEDED, MULCHED, AND CRIMPED PER THE TOWN'S SPECIFICATIONS (SEE DETAIL SMC).

Town of Parker COLORADO | CBMP CONSTRUCTION BEST MANAGEMENT PRACTICES | SF 4 OF 4 Oct. 2013

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RS **ROCK SOCK**

Town of Parker COLORADO | CBMP CONSTRUCTION BEST MANAGEMENT PRACTICES | RS 1 OF 2 Oct. 2013

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ROCK SOCK INSTALLATION NOTES

1. SEE CBMP PLAN FOR LOCATION(S) OF ROCK SOCK.
2. CRUSHED ROCK SHALL BE APPROXIMATELY 2.0"–3.0" GRANITE IN SIZE WITH A FRACTURED FACE (ALL SIDES).
3. ROCK SOCK SHALL BE APPROXIMATELY ONE CONTINUOUS PIECE OR SHALL BE CONSTRUCTED USING WIRE WRAPPED JOINTS (SEE DETAIL RS).
4. ROCK SOCK SHALL BE CONSTRUCTED USING CHICKEN WIRE OR OTHER APPROVED MATERIAL SIZED TO KEEP ROCK FROM SPILLING OUT.
5. MINIMUM ROCK SOCK DIAMETER SHALL VARY BASED ON APPLICATION (7" MIN).
6. TUBULAR MARKERS MAY NEED TO BE USED IN CONJUNCTION WITH ROCKS SOCKS ANYTIME THE ROCK SOCK IS PLACED ON A ROADWAY, SIDEWALK, PARKING LOT OR OTHER LOCATION SUSCEPTIBLE TO VEHICLE OR PEDESTRIAN TRAFFIC. TUBULAR MARKERS SHALL CONFORM TO THE TUBULAR MARKER DETAIL.

ROCK SOCK INSPECTION AND MAINTENANCE NOTES

1. THE EROSION CONTROL SUPERVISOR SHALL REGULARLY INSPECT THE ROCK SOCKS.
2. ROCK SOCKS SHALL BE REPLACED IF THEY BECOME HEAVILY SOILED OR DAMAGED.
3. ROCK SOCKS SHALL REMAIN IN PLACE AND PROPERLY MAINTAINED UNTIL VEGETATIVE COVER HAS REACHED A CONSISTENT DENSITY OF AT LEAST 70% OF FULL VEGETATIVE COVER AND EROSION AND SEDIMENTATION IS NO LONGER A POSSIBILITY AS DETERMINED BY THE TOWN'S INSPECTOR OR AS OTHERWISE DIRECTED BY THE TOWN'S INSPECTOR.

Town of Parker COLORADO | CBMP CONSTRUCTION BEST MANAGEMENT PRACTICES | RS 2 OF 2 Oct. 2013

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SEEDING AND MULCHING SHALL BE PERFORMED ACCORDING TO THE ACCOMPANYING DETAIL(S) AND TEXT. NO EXCEPTIONS SHALL BE MADE

1. SEE PLAN VIEW FOR:
   - LOCATION(S) OF SEEDING AND MULCHING
   - TYPE OF SEED MIX
2. SEED MIXES MAY CONFORM TO THE TABLE PROVIDED WITH THE SMC NOTES OR ALTERNATIVES MAY BE ALLOWED WITH PRIOR PERMISSION BY THE TOWN'S INSPECTOR.
3. SEEDING MAY BE PERFORMED YEAR ROUND ASSUMING THE SOIL IS NOT FROZEN. SEEDING DURING TIMES OF EXTREME TEMPERATURES SHOULD BE AVOIDED IF POSSIBLE.
4. AT THE BEGINNING OF THE LAND DISTURBANCE ACTIVITIES, IT IS HIGHLY RECOMMENDED THAT AN APPROPRIATE AMOUNT OF NATIVE TOPSOIL BE STRIPPED FROM THE SITE AND STOCKPILED. ALL AREAS, PRIOR TO PERMANENT SEEDING AND MULCHING, WILL LIKELY NEED TO BE COVERED WITH AN APPROPRIATE LAYER OF TOPSOIL. THIS REQUIREMENT APPLIES TO ALL AREAS WHERE NATIVE SEEDING IS SPECIFIED ON THE CBMP PLAN AND/OR LANDSCAPING PLANS.
5. IT IS STRONGLY RECOMMENDED THAT SAMPLES FROM THE STRIPPED TOPSOIL BE PROPERLY COLLECTED AND TESTED BY A QUALIFIED LABORATORY TO ENSURE ADEQUATE NUTRIENT CONTENT PRIOR TO SEEDING AND MULCHING. IF IT IS DISCOVERED THAT THE TOPSOIL IS VOID OF THE NUTRIENTS NECESSARY TO SUCCESSFULLY ESTABLISH THE REQUIRED VEGETATION, THEN THE APPROPRIATE AMENDMENTS SHALL BE ADDED.
6. ALL AREAS TO BE SEEDED AND MULCHED SHALL BE SURFACE ROUGHENED ACCORDING TO THE SURFACE ROUGHENING DETAILS AND NOTES. SURFACE ROUGHENING SHALL OCCUR AFTER PLACEMENT OF THE TOPSOIL.
7. WHEN INSTALLED WITH A DRILL SEEDER, SEED SHALL BE PLACED AT A DEPTH OF ¼ – ½ INCH. ROW SPACING SHALL BE NO MORE THAN 6–INCHES.
8. ALL AREAS INCAPABLE OF BEING DRILL SEEDED SHALL BE SURFACE ROUGHENED ACCORDING TO THE SURFACE ROUGHENING NOTES OR EFFECTIVELY ROUGHENED USING A HARROW OR OTHER SUCH IMPLEMENT. ALL AREAS SHALL BE UNIFORMLY HAND BROADCASTED WITH THE PROPER SEED MIX APPLIED AT TWO TIMES THE DRILL SEEDED RATE. BROADCASTED AREAS SHALL THEN BE RE–HARROWED OR RE–RAKED USING A HARD–TIPPED RAKE TO ENSURE THAT SEEDS ARE BURIED TO AN APPROXIMATE DEPTH OF ¼ – ½ INCH.
9. AFTER SEEDING HAS BEEN COMPLETED, MULCH SHALL BE UNIFORMLY APPLIED AT A RATE OF 2 TONS/ACRE (4,000 LBS/ACRE). MULCH SHALL BE MECHANICALLY CRIMPED TO A DEPTH OF 2 INCHES USING A CRIMPER. MULCH SHALL BE HAND CRIMPED AND COVERED WITH A TACKIFIER IN AREAS WHERE MECHANICAL CRIMPING IS NOT POSSIBLE. WHEN SOILS PERMIT, ALL MULCH SHALL BE CRIMPED SUCH THAT THE INDIVIDUAL PIECES OF STRAW OR HAY FORM EXAGGERATED V–SHAPES PROTRUDING OUT OF THE GROUND SEVERAL INCHES.
10. IN CERTAIN INSTANCES, IT MAY BE NECESSARY TO APPLY A TACKIFIER IN ORDER TO HELP WITH STRAW DISPLACEMENT. TACKIFIER SHALL BE APPLIED ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS.

Town of Parker COLORADO | CBMP CONSTRUCTION BEST MANAGEMENT PRACTICES | SMC 1 OF 3 Oct. 2013

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SEEDING AND MULCHING MAINTENANCE NOTES

1. THE EROSION CONTROL SUPERVISOR SHALL REGULARLY INSPECT THE SEEDING AND MULCHING.
2. ANY SEEDED AND MULCHED AREAS THAT BECOME DAMAGED SHALL BE REPAIRED WITHIN THE TIME FRAME SPECIFIED BY THE TOWN'S INSPECTOR.

WEED MANAGEMENT

1. ALL HERBICIDES SHALL BE APPLIED BY COMMERCIAL PESTICIDE APPLICATORS LICENSED BY THE COLORADO DEPARTMENT OF AGRICULTURE AS QUALIFIED APPLICATORS. THE CONTRACTOR SHALL FURNISH DOCUMENTATION OF SUCH LICENSING PRIOR TO HERBICIDE APPLICATION.
2. HERBICIDE APPLICATION METHOD SHALL BE SUCH THAT PLANT GROWTH OUTSIDE THE DESIGNATED TREATMENT AREAS WILL NOT BE DAMAGED. ALL DAMAGE CAUSED BY IMPROPER HERBICIDE APPLICATION SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
3. HERBICIDES SHALL BE APPLIED DURING THE APPROPRIATE SEASONS, WHEN TARGET PLANTS ARE ACTIVELY GROWING.
4. AFTER THE GRASS SEED IS ESTABLISHED, APPROPRIATE HERBICIDES SHALL BE APPLIED TO CONTROL THE REMAINING WEEDS TO ENSURE A TIMELY RETURN OF THE FINANCIAL SECURITY. PROPER TIMING OF HERBICIDE APPLICATIONS ARE NECESSARY TO ACHIEVE THE SUPPRESSION OF WEED SEED PRODUCTION AND DEPLETION OF WEED ROOT MASS. ULTIMATELY, THE HERBICIDES USED SHALL BE BASED UPON THE TARGET WEEDS.
5. HERBICIDE TREATMENTS SHALL CONTINUE AT AN APPROPRIATE RATE UNTIL IT IS EVIDENT THAT WEED GROWTH PRESENCE AND GROWTH IS MINIMAL AND MAY BE CONTROLLED THROUGH MOWING AND/OR ANNUAL HERBICIDE TREATMENT.

Town of Parker COLORADO | CBMP CONSTRUCTION BEST MANAGEMENT PRACTICES | SMC 2 OF 3 Oct. 2013

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TOWN OF PARKER, SEED MIX 1
20% CANADA WILDRYE
15% CRESTED WHEATGRASS
15% SLENDER WHEATGRASS
10% ANNUAL RYEGRASS
10% SHEEP FESCUE
10% BIG BLUESTEM
10% SIDEOATS GRAMA
5% CANADA BLUEGRASS
5% BLUE GRAMA

SEEDING RATE:
DRILLED: 25 LBS/ACRE
BROADCAST: 50 LBS/ACRE

TOWN OF PARKER, SEED MIX 2
22% SLENDER WHEATGRASS
18% SODAR STREAMBANK WHEATGRASS
13% ARIZONA FESCUE
13% BLUE GRAMA
12% BUFFALOGRASS
12% BARLEY OR OATS
5% SPIKE MUHLY
5% INDIAN RICEGRASS

SEEDING RATE:
DRILLED: 25 LBS/ACRE
BROADCAST: 50 LBS/ACRE

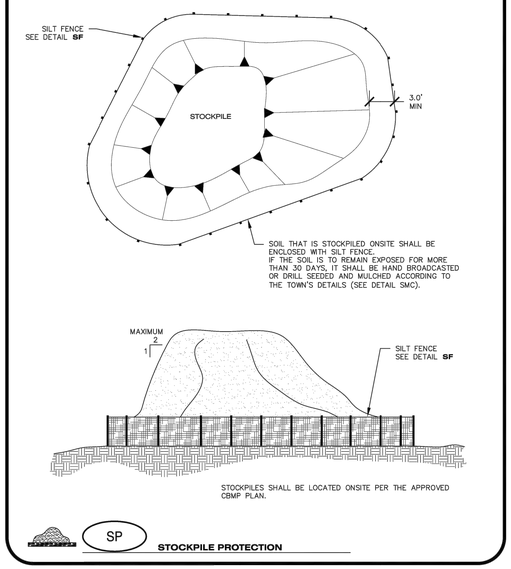
TOWN OF PARKER, SEED MIX 3 (LOW-GROWTH MIX)
25% EPHRAIM CRESTED WHEATGRASS
23% SHEEP FESCUE
18% PERENNIAL RYEGRASS
13% CANADA BLUEGRASS
12% BARLEY OR OATS
9% BLUE FESCUE

SEEDING RATE:
DRILLED: 25 LBS/ACRE
BROADCAST: 50 LBS/ACRE

SEED MIX 4:
OTHER SEED MIXES APPROVED BY THE TOWN OF PARKER

Town of Parker COLORADO | CBMP CONSTRUCTION BEST MANAGEMENT PRACTICES | SMC 3 OF 3 Oct. 2013

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SP **STOCKPILE PROTECTION**

Town of Parker COLORADO | CBMP CONSTRUCTION BEST MANAGEMENT PRACTICES | SP JUNE 2006

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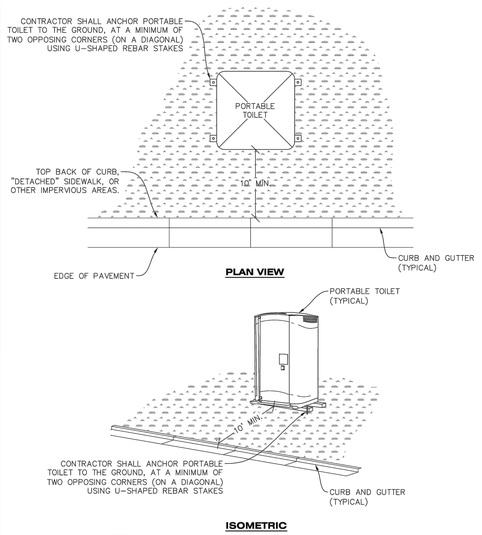
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PTP

PORTABLE TOILET PROTECTION

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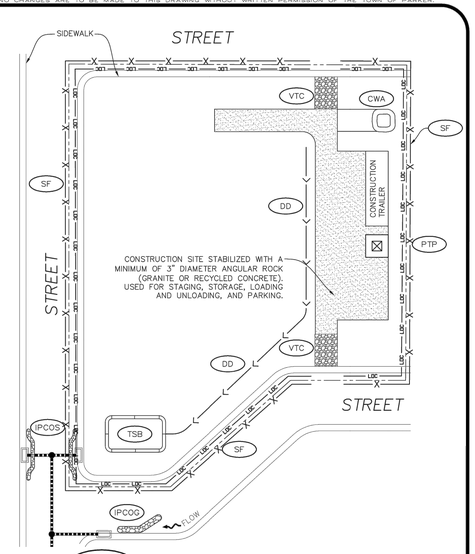
PORTABLE TOILET PROTECTION INSTALLATION NOTES

1. PORTABLE TOILETS SHALL BE PLACED A MINIMUM OF 10.0' BEHIND ALL CURBS, SIDEWALKS, AND OTHER IMPERVIOUS AREAS.
2. ALL PORTABLE TOILETS MUST BE GROUPED TOGETHER.
3. PORTABLE TOILETS SHALL BE SECURELY ANCHORED TO THE GROUND USING U-SHAPED REBAR STAKES.
4. U-SHAPED REBAR STAKES SHALL BE POSITIONED ON AT LEAST 2 OPPOSING (DIGITAL) CORNERS.

PORTABLE TOILET PROTECTION INSPECTION AND MAINTENANCE NOTES

2. THE EROSION CONTROL SUPERVISOR SHALL REGULARLY INSPECT THE PORTABLE TOILET PROTECTION.
3. PORTABLE TOILETS SHALL BE SERVICED AT THE NECESSARY INTERVALS TO ELIMINATE THE POSSIBILITY OF OVERFLOW.
4. WHEN THE PORTABLE TOILETS ARE REMOVED, ANY DISTURBED AREAS ASSOCIATED WITH THE INSTALLATION, MAINTENANCE, AND/OR REMOVAL OF THE TOILETS MAY NEED TO BE LANDSCAPED OR ROUGHENED, SEEDED, MULCHED, AND CRIMPED PER THE TOWN'S SPECIFICATIONS (SEE DETAIL SMC).
5. PORTABLE TOILETS THAT ARE NOT CONSISTENTLY MAINTAINED IN ACCORDANCE WITH THESE REQUIREMENTS MAY NEED TO BE CLUSTERED TOGETHER, IN ONE CENTRALIZED LOCATION IN ORDER TO INCREASE COMPLIANCE AND REDUCE THE CHANCE OF A SPILL.

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.



STABILIZED STAGING AREA

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

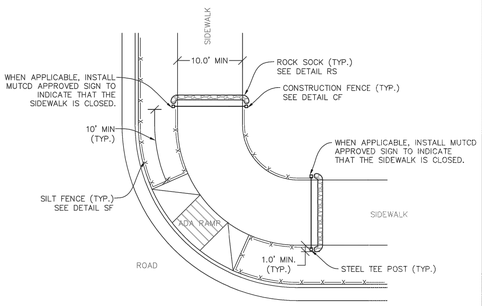
STABILIZED STAGING AREA INSTALLATION NOTES

1. SEE CBMP PLAN FOR LOCATION OF STAGING AREA. CONTRACTOR MAY MODIFY LOCATION AND SIZE OF STABILIZED STAGING AREA WITH TOWN APPROVAL.
2. STABILIZED STAGING AREA SHALL BE LARGE ENOUGH TO FULLY CONTAIN PARKING, STORAGE, AND LOADING OPERATIONS.
3. THE STABILIZED STAGING AREA SHALL CONSIST OF A MINIMUM OF 3" DIAMETER OF ANGULAR ROCK (GRANITE OR RECYCLED CONCRETE).
4. SSA FOR SMALLER SITES MAY NOT BE PRACTICAL. IN THESE AND SIMILAR SITUATIONS, VARIANCES MAY BE PERMITTED BY THE TOWN.

STABILIZED STAGING AREA INSPECTION AND MAINTENANCE NOTES

1. THE EROSION CONTROL SUPERVISOR SHALL REGULARLY INSPECT THE STAGING AREA.
2. STABILIZED STAGING AREA SHALL BE ENLARGED AS NECESSARY TO CONTAIN PARKING, STORAGE, LOADING, AND UNLOADING.

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

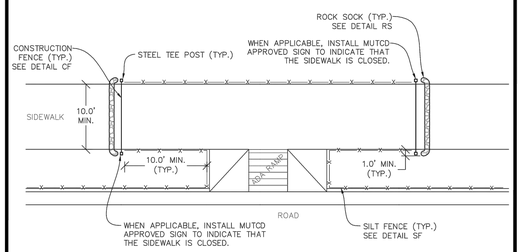


NOTE:
SEDIMENT CONTROL LOGS (SCL) MAY BE USED IN LIEU OF SILT FENCE (SF) WITH PRIOR APPROVAL FROM TOWN.

STP

SIDEWALK TRANSITION PROTECTION (AT INTERSECTION)

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.



NOTE:
SEDIMENT CONTROL LOGS (SCL) MAY BE USED IN LIEU OF SILT FENCE (SF) WITH PRIOR APPROVAL FROM TOWN.

STP

SIDEWALK TRANSITION PROTECTION (ALONG STRAIGHT ROADWAY)

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

SIDEWALK TRANSITION PROTECTION INSTALLATION NOTES

1. SEE PLAN VIEW FOR LOCATION(S) OF SIDEWALK TRANSITION PROTECTION.
2. ROCK SOCK SHALL BE CONSTRUCTED ACCORDING TO THE DETAIL (SEE DETAIL RS).
3. SILT FENCE SHALL BE CONSTRUCTED ACCORDING TO THE DETAIL (SEE DETAIL SF).
4. CONSTRUCTION FENCE SHALL BE CONSTRUCTED ACCORDING TO THE DETAIL (SEE DETAIL CF).
5. SEDIMENT CONTROL LOGS MAY BE USED IS LIEU OF SILT FENCE WITH PRIOR APPROVAL FROM THE TOWN.

SIDEWALK TRANSITION PROTECTION INSPECTION & MAINTENANCE NOTES

1. THE EROSION CONTROL SUPERVISOR SHALL REGULARLY INSPECT THE SIDEWALK TRANSITION INSPECTION.

THE TOWN OF PARKER REVIEW CONSTITUTES GENERAL COMPLIANCE WITH THE TOWN'S STANDARDS AND APPROVED VARIANCES, SUBJECT TO THESE PLANS BEING STAMPED, SIGNED, AND DATED BY THE PROFESSIONAL ENGINEER OF RECORD. REVIEW BY THE TOWN DOES NOT CONSTITUTE APPROVAL OF THE PLAN DESIGN OR ACCURACY AND CORRECTNESS OF ENGINEERING CALCULATIONS. ERRORS IN THE DESIGN OR CALCULATIONS REMAIN THE RESPONSIBILITY OF THE REGISTERED PROFESSIONAL ENGINEER WHOSE STAMP AND SIGNATURE ARE AFFIXED TO THIS DOCUMENT. THIS REVIEW DOES NOT CONSTITUTE APPROVAL OF ANY PRIVATE ON-SITE IMPROVEMENTS WHICH MAY BE SHOWN. CONSTRUCTION CANNOT COMMENCE UNTIL ALL REQUIRED DRAINAGE/TRAFFIC REPORT(S), FINAL DEVELOPMENT PLAN(S), SPECIAL REVIEW(S), GRADING PERMIT, AND/OR OTHER PERMITS ARE COMPLETE, APPROVED AND ON FILE WITH THE TOWN OF PARKER.

TOWN OF PARKER, DIRECTOR OF ENGINEERING/PUBLIC WORKS

DATE

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303-572-7997 www.ees.us.com

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2293 - PARKER, COLORADO
BAYOU GULCH RD AND PINERY PKWY
EROSION AND STORMWATER CONTROL DETAILS

KG PROJECT TEAM: EES
RDM: RF
SDM: DG
CPM: BS

REVISIONS

	DATE	REVISION DESCRIPTION
1		

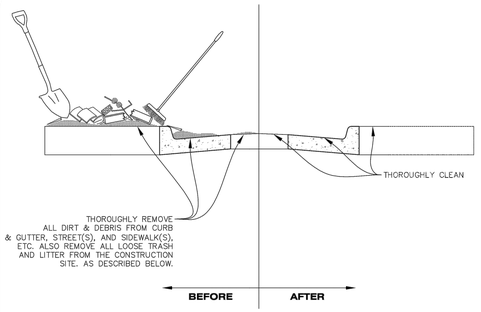
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CRITERIA PLAN 04/2020

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.



NOTE:

1. THE EROSION CONTROL SUPERVISOR IS RESPONSIBLE FOR ENSURING THAT ALL STREETS, CURBS, GUTTERS, SIDEWALKS, DRIVEWAYS, PARKING LOTS, ALLEYS, TRICKLE CHANNELS, AND/OR OTHER IMPERVIOUS SURFACES IMPACTED BY CONSTRUCTION ACTIVITIES ARE THOROUGHLY CLEANED THROUGHOUT THE DAY IF THEY BECOME SOILED. THESE AREAS MUST ALSO BE THOROUGHLY CLEAN BEFORE THE END OF THE WORK DAY. FURTHERMORE, ALL LOOSE TRASH AND LITTER ASSOCIATED WITH THE PROJECT MUST BE REMOVED AND PROPERLY DISCARDED ON A DAILY BASIS.

DTC **DEBRIS AND TRASH CONTROL**

Town of Parker COLORADO | CBMP CONSTRUCTION BEST MANAGEMENT PRACTICES | DTC 1 OF 2 Oct. 2013

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

DEBRIS CONTROL NOTES:

1. A COMBINATION OF SURFACE SCRAPING AND SWEEPING MAY BE NECESSARY TO PROPERLY CLEAN THESE AREAS.
2. ALL CHEMICAL SPILLS AND/OR STAINS ON THE SITE SHALL BE CLEANED TO THE MAXIMUM EXTENT PRACTICABLE. IN SOME CASES IT MAY BE NECESSARY TO USE PRESSURIZED WATER AND A VAC-TRUCK.
3. ON-SITE PERSONNEL, DELIVERY DRIVERS, ETC., SHOULD BE EDUCATED ON THE NEED FOR CONTINUAL DEBRIS AND TRASH CONTROL.

Town of Parker COLORADO | CBMP CONSTRUCTION BEST MANAGEMENT PRACTICES | DTC 2 OF 2 Oct. 2013

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

AREA INLET PROTECTION INSTALLATION NOTES

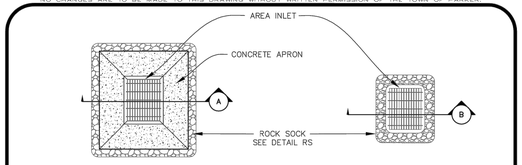
1. SEE PLAN VIEW FOR LOCATION(S) OF AREA INLET PROTECTION.
2. THE AREA INLET PROTECTION SHOWN ON CBMP PLANS SHALL BE INSTALLED ON EXISTING INLETS PRIOR TO ANY LAND DISTURBING ACTIVITIES OR IMMEDIATELY AFTER THE INSTALLATION OF NEW INLETS. AN INTERIM STYLE OF INLET PROTECTION MAY BE ALLOWED UNTIL THE INSTALLATION OF THE GUTTER AND/OR PAVEMENT.

AREA INLET PROTECTION INSPECTION AND MAINTENANCE NOTES

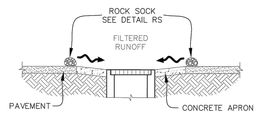
1. THE EROSION CONTROL SUPERVISOR SHALL REGULARLY INSPECT THE AREA INLET PROTECTION.
2. AREA INLET PROTECTION SHALL REMAIN IN PLACE AND PROPERLY MAINTAINED UNTIL VEGETATIVE COVER HAS REACHED A CONSISTENT DENSITY OF AT LEAST 70% OF FULL VEGETATIVE COVER AND EROSION AND SEDIMENTATION IS NO LONGER A POSSIBILITY AS DETERMINED BY THE TOWN'S INSPECTOR OR AS OTHERWISE DIRECTED BY THE TOWN'S INSPECTOR.
3. WHEN THE AREA INLET PROTECTION IS REMOVED, ANY DISTURBED AREAS ASSOCIATED WITH THE INSTALLATION, MAINTENANCE, AND/OR REMOVAL OF THE AREA INLET PROTECTION MAY NEED TO BE ROUGHENED, SEEDED, MULCHED, AND CRIMPED PER THE TOWN'S SPECIFICATIONS (SEE DETAIL SMC).
4. ACCUMULATED SEDIMENT SHALL BE REMOVED AS SOON AS POSSIBLE, IMMEDIATELY IN MOST CASES.

Town of Parker COLORADO | CBMP CONSTRUCTION BEST MANAGEMENT PRACTICES | IPA 1 OF 1 Oct. 2013

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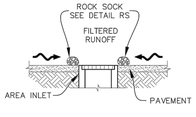


AREA INLET WITH CONCRETE APRON PLAN VIEW

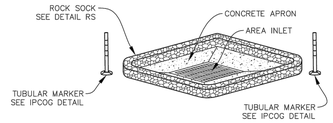


SECTION A

AREA INLET PLAN VIEW



SECTION B

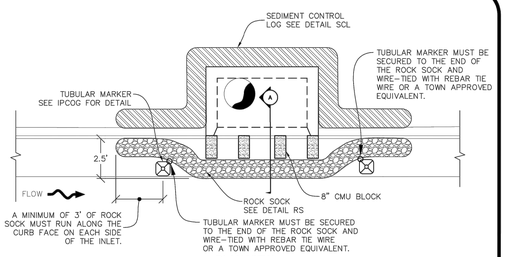


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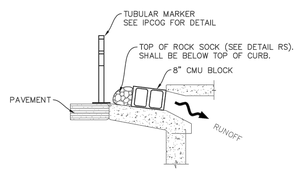
IPAP **INLET PROTECTION FOR AREA INLETS IN PAVEMENT**

Town of Parker COLORADO | CBMP CONSTRUCTION BEST MANAGEMENT PRACTICES | IPAP 1 OF 1 Oct. 2013

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.



PLAN VIEW



SECTION A

IPCOS **INLET PROTECTION, CURB ON SUMP, TYPE R INLET**

Town of Parker COLORADO | CBMP CONSTRUCTION BEST MANAGEMENT PRACTICES | IPCOS 1 OF 2 Oct. 2013

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

CURB INLET PROTECTION INSTALLATION NOTES

1. SEE CBMP PLAN FOR LOCATION(S) OF CURB INLET PROTECTION.
2. CRUSHED ROCK SHALL BE 2.0"-3.0" IN SIZE WITH A FRACTURED FACE (ALL SIDES).
3. ROCK SOCK SHALL BE ONE CONTINUOUS PIECE OR SHALL BE CONSTRUCTED USING WIRE WRAPPED JOINTS (SEE DETAIL RS).
4. ROCK SOCK SHALL BE CONSTRUCTED USING CHICKEN WIRE OR OTHER APPROVED MATERIAL SIZED TO KEEP ROCK FROM SPILLING OUT.
5. ROCK SOCK SHALL EXTEND 3.0' ALONG THE CURB BEYOND LOCATIONS WHERE IT RETURNS TO CONTACT CURB FACE.
6. TUBULAR TRAFFIC MARKERS SHALL BE A MINIMUM OF 36" IN HEIGHT WITH REFLECTIVE BANDS AND OCTAGON SHAPED BASES.
7. THE CURB INLET PROTECTION SHOWN ON CBMP PLAN SHALL BE INSTALLED ON EXISTING INLETS PRIOR TO ANY LAND DISTURBING ACTIVITIES OR IMMEDIATELY AFTER THE INSTALLATION OF THE FIRST LIFT OF ASPHALT ON ROADWAYS DRAINING TO THE CURB INLET. CMU BLOCKS OR THE ROCK SOCK SHALL BE USED AS INTERIM PROTECTION UNTIL THE FIRST LIFT OF ASPHALT IS INSTALLED.

CURB INLET PROTECTION INSPECTION AND MAINTENANCE NOTES

1. THE EROSION CONTROL SUPERVISOR SHALL REGULARLY INSPECT THE CURB INLET PROTECTION.
2. ACCUMULATED SEDIMENT SHALL BE REMOVED AS SOON AS POSSIBLE, IMMEDIATELY IN MOST CASES.
3. ROCK SOCKS SHALL BE REPLACED IF THEY BECOME HEAVILY SOILED OR DAMAGED.
4. CURB INLET PROTECTION SHALL REMAIN IN PLACE AND PROPERLY MAINTAINED UNTIL VEGETATIVE COVER HAS REACHED A CONSISTENT DENSITY OF AT LEAST 70% OF FULL VEGETATIVE COVER AND EROSION AND SEDIMENTATION IS NO LONGER A POSSIBILITY AS DETERMINED BY THE TOWN'S INSPECTOR OR AS OTHERWISE DIRECTED BY THE TOWN'S INSPECTOR.

Town of Parker COLORADO | CBMP CONSTRUCTION BEST MANAGEMENT PRACTICES | IPCOS 2 OF 2 Oct. 2013

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TOWN OF PARKER, DIRECTOR OF ENGINEERING/PUBLIC WORKS — DATE

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2293 - PARKER, COLORADO
BAYOU GULCH RD AND PINERY PKWY
EROSION AND STORMWATER CONTROL DETAILS

KG PROJECT TEAM: EES
RDM: RF
SDM: DG
CPM: BS

REVISIONS

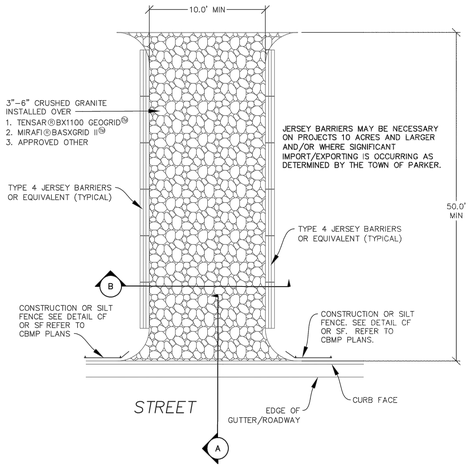
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DATE: 07-12-2023

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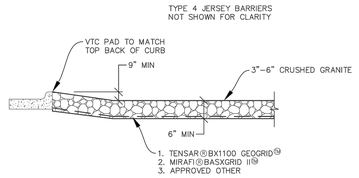
NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

ON SITES LESS THAN 10 ACRES AND WHERE SIGNIFICANT SOIL IMPORTING/EXPORTING IS NOT OCCURRING, CONSTRUCTION FENCE (CF) OR SILT FENCE (SF) MAY BE USED IN LIEU OF THE TYPE 4 JERSEY BARRIERS WITH PRIOR APPROVAL FROM THE TOWN'S INSPECTOR.

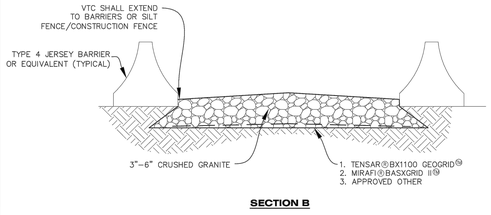


VTC **VEHICLE TRACKING CONTROL**

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.



SECTION A



SECTION B

VTC **VEHICLE TRACKING CONTROL**

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

VEHICLE TRACKING CONTROL PAD INSTALLATION NOTES

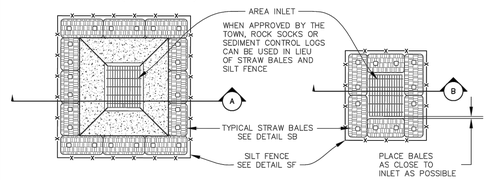
1. SEE CBMP PLAN FOR LOCATION(S) OF VEHICLE TRACKING CONTROL PAD(S).
2. ALL CONSTRUCTION TRAFFIC MUST ENTER AND EXIT THE SITE THROUGH THE APPROVED ACCESS POINT(S). A VEHICLE TRACKING CONTROL PAD IS REQUIRED AT ALL APPROVED ACCESS POINTS TO THE SITE. EXCEPTIONS MAY BE CONSIDERED FOR CONSTRUCTION ACTIVITY OCCURRING IMMEDIATELY ADJACENT TO PAVED AREAS AND WHERE ALTERNATIVE BMP'S ARE IMPLEMENTED. SUCH ACTIVITY MAY INCLUDE, BUT NOT BE LIMITED TO RESIDENTIAL CONSTRUCTION, UTILITY CONSTRUCTION, ETC.
3. THE VEHICLE TRACKING CONTROL PAD(S) INDICATED ON CBMP PLAN SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.
4. VEHICLE TRACKING CONTROL PADS SHALL BE A MINIMUM OF 50-FEET LONG AND 10-FEET WIDE, UNLESS A VARIANCE HAS BEEN GRANTED BY THE TOWN'S INSPECTOR.
5. A BIAXIAL GEO-GRID SHALL BE PLACED UNDER THE VEHICLE TRACKING CONTROL PAD PRIOR TO THE PLACEMENT OF ROCK. THE AREA SHALL BE FREE FROM ANY VOIDS, ROCKS AND DEBRIS. THE BIAXIAL GEO-GRID SHALL BE TENSAR BX1100, MIRAFI BASXGRID II, OR AN APPROVED EQUAL. GEO-GRID SHALL BE PLACED, AND APPROPRIATELY OVERLAPPED IF NECESSARY, TO COVER THE ENTIRE LENGTH AND WIDTH OF THE VEHICLE TRACKING CONTROL PAD.
6. CRUSHED ROCK SHALL BE A MINIMUM OF 3-6" GRANITE WITH A FRACTURED FACE (ALL SIDES).

VEHICLE TRACKING CONTROL PAD INSTALLATION AND MAINTENANCE NOTES

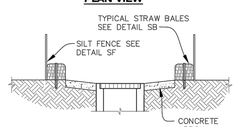
1. THE EROSION CONTROL SUPERVISOR SHALL REGULARLY INSPECT THE VEHICLE TRACKING CONTROL PAD.
2. WHEN THE VEHICLE TRACKING CONTROL PAD IS REMOVED, ANY DISTURBED AREAS ASSOCIATED WITH THE INSTALLATION, MAINTENANCE, AND/OR REMOVAL OF THE VEHICLE TRACKING CONTROL PAD SHALL BE ROUGHENED, SEEDED, MULCHED, AND CRIMPED PER THE TOWN'S SPECIFICATIONS (SEE DETAIL SMC).
3. THE VEHICLE TRACKING CONTROL PAD SHALL BE MAINTAINED SUCH THAT THE ROCK REMAINS RELATIVELY LOOSE AND ACCUMULATED MUD AND OTHER DEBRIS IS REGULARLY REMOVED.

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

THIS METHOD OF INLET PROTECTION SHALL NOT BE USED ON INLETS RECEIVING SIGNIFICANT FLOWS, SUCH AS IN CERTAIN SWALES/CHANNELS OR HIGHWAY MEDIANS. INLET PROTECTION FOR AREA INLETS IN PAVEMENT (SEE DETAIL IPAP) SHALL BE USED IN THESE CONDITIONS.

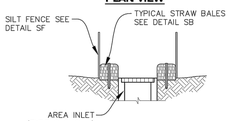


AREA INLET WITH CONCRETE APRON PLAN VIEW

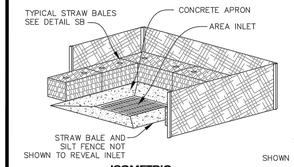


SECTION A

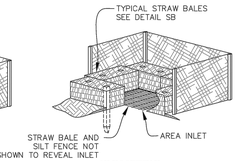
AREA INLET PLAN VIEW



SECTION B



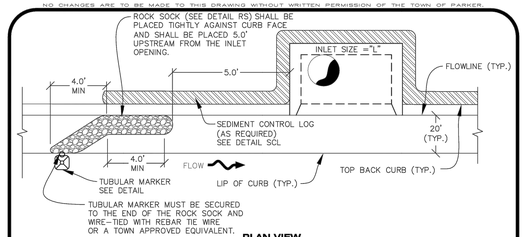
ISOMETRIC



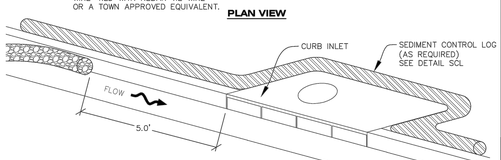
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IPAN **INLET PROTECTION FOR AREA INLETS NOT IN PAVEMENT**

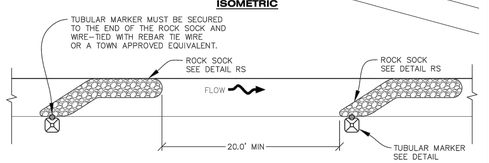
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PLAN VIEW



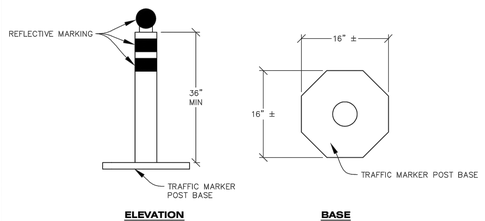
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PLAN VIEW FOR MULTIPLE ROCK SOCKS

IPCOG **INLET PROTECTION, CURB ON-GRADE, TYPE R INLET**

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.



ELEVATION **BASE**

TUBULAR TRAFFIC MARKER DETAIL

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

INLET PROTECTION, CURB ON-GRADE INSTALLATION NOTES

1. SEE CBMP PLAN FOR LOCATION(S) OF ON-GRADE INLET PROTECTION.
2. CRUSHED ROCK SHALL BE 2.0"-3.0" IN SIZE WITH A FRACTURED FACE (ALL SIDES).
3. ROCK SOCK FOR ON-GRADE INLET PROTECTION SHALL BE ONE CONTINUOUS PIECE.
4. ROCK SOCK SHALL BE CONSTRUCTED USING CHICKEN WIRE OR OTHER APPROVED MATERIAL, SIZED TO KEEP ROCK FROM SPILLING OUT.
5. ROCK SOCK SHALL BE PLACED 5.0' UPHILL OF THE INLET OPENING.
6. TUBULAR MARKER SHALL BE A MINIMUM OF 3.0' HIGH WITH REFLECTIVE BANDS AND OCTAGON SHAPED BASES.
7. THE CURB INLET PROTECTION SHOWN ON CBMP PLAN SHALL BE INSTALLED ON EXISTING INLETS PRIOR TO ANY LAND DISTURBING ACTIVITIES OR IMMEDIATELY AFTER THE APPLICABLE INSTALLATION OF THE FIRST LIFT OF ASPHALT ON ROADWAYS DRAINING TO THE INLET.

ON-GRADE INLET PROTECTION INSPECTION AND MAINTENANCE NOTES

1. THE EROSION CONTROL SUPERVISOR SHALL REGULARLY INSPECT THE ON-GRADE INLET PROTECTION.
2. ACCUMULATED SEDIMENT SHALL BE REMOVED AS SOON AS POSSIBLE, IMMEDIATELY IN MOST CASES.
3. ROCK SOCKS SHALL BE REPLACED IF THEY BECOME HEAVILY SOILED OR DAMAGED.
4. ON-GRADE INLET PROTECTION SHALL REMAIN IN PLACE AND PROPERLY MAINTAINED UNTIL VEGETATIVE COVER HAS REACHED A CONSISTENT DENSITY OF AT LEAST 70% OF FULL VEGETATIVE COVER AND EROSION AND SEDIMENTATION IS NO LONGER A POSSIBILITY AS DETERMINED BY THE TOWN'S INSPECTOR OR AS OTHERWISE DIRECTED BY THE TOWN'S INSPECTOR.

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2293 - PARKER, COLORADO
BAYOU GULCH RD AND PINERY PKWY
EROSION AND STORMWATER CONTROL DETAILS

KG PROJECT TEAM: EES
RDM: RF
SDM: DG
CPM: BS

REVISIONS

	DATE	REVISION DESCRIPTION
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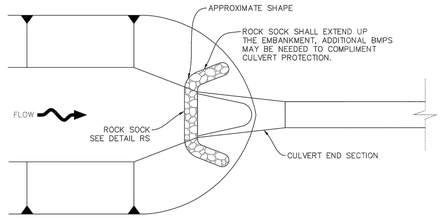
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SHEET NUMBER: C3.9
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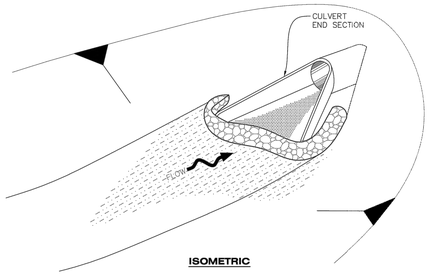
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CRITERIA PLAN 04/2020

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PLAN



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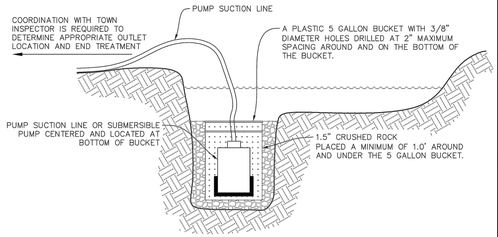
CP **CULVERT PROTECTION (INLET)**

CULVERT PROTECTION (INLET) INSTALLATION NOTES

1. SEE PLAN VIEW FOR LOCATION(S) OF CULVERT PROTECTION (INLET).
2. ROCK SOCK SHALL BE CONSTRUCTED ACCORDING TO THE DETAIL (SEE DETAIL RS).
3. ROCK SOCK SHALL BE APPROXIMATELY 12" IN DIAMETER.
4. ROCK SOCK SHALL EXTEND ABOVE THE FLOW LINE ELEVATION ON BOTH SIDES OF THE CULVERT END SECTION.

CULVERT PROTECTION (INLET) INSPECTION AND MAINTENANCE NOTES

1. THE EROSION CONTROL SUPERVISOR SHALL REGULARLY INSPECT THE CULVERT PROTECTION (INLET).
2. AT A MINIMUM, ACCUMULATED SEDIMENT SHALL BE REMOVED ONCE SEDIMENT HAS REACHED A DEPTH EQUAL TO 1/2 THE HEIGHT OF THE ROCK SOCK.
3. CULVERT PROTECTION (INLET) IS TO REMAIN IN PLACE AND PROPERLY MAINTAINED UNTIL VEGETATIVE COVER HAS REACHED A CONSISTENT DENSITY OF AT LEAST 70% OF FULL VEGETATIVE COVER AND EROSION AND SEDIMENTATION IS NO LONGER A POSSIBILITY AS DETERMINED BY THE TOWN'S INSPECTOR OR AS OTHERWISE DIRECTED BY THE TOWN'S INSPECTOR.
4. WHEN THE CULVERT INLET PROTECTION IS REMOVED, THE TOWN'S INSPECTOR MAY REQUIRE ANY DISTURBED AREAS ASSOCIATED WITH THE INSTALLATION, MAINTENANCE, AND/OR REMOVAL OF THE CULVERT INLET PROTECTION TO BE ROUGHENED, SEEDED, MULCHED, AND CRIMPED PER THE TOWN'S SPECIFICATIONS (SEE DETAIL SMC).



TYPICAL DEWATERING SUMP

NOTE:
IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE APPROPRIATE MEASURES TO PROTECT PUMPING EQUIPMENT AND MINIMIZE SEDIMENT. USE OF A PLASTIC 5 GALLON BUCKET IS SUGGESTED BUT NOT REQUIRED. THE CONTRACTOR SHALL NOT HOLD THE TOWN LIABLE FOR DAMAGE TO PUMPING EQUIPMENT REGARDLESS OF METHODS USED.

D **DEWATERING**

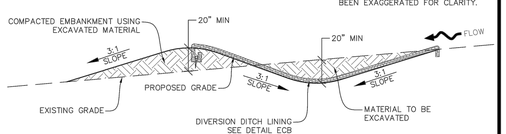
DEWATERING INSTALLATION NOTES

1. IT IS THE EROSION CONTROL SUPERVISOR'S RESPONSIBILITY TO ENSURE THAT ALL DEWATERING IS PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT (CDPHE).

DEWATERING MAINTENANCE NOTES

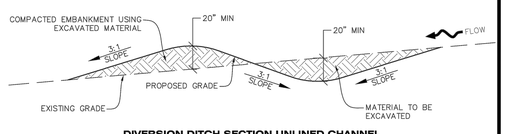
1. THE EROSION CONTROL SUPERVISOR SHALL INSPECT THE DEWATERING OPERATION TO ENSURE THAT THE DISCHARGE WATER IS DRAINING TO THE PROPER LOCATION(S) AND PERFORM ANY NECESSARY REPAIRS OR MAINTENANCE ON A FREQUENT BASIS.

NOTE:
DITCH LINING THICKNESS HAS BEEN EXAGGERATED FOR CLARITY.



DIVISION DITCH GEOMETRY AND REQUIRED LINING MATERIAL SHALL BE OBTAINED FROM ASSOCIATED CBMP PLANS VIA THE DESIGN ENGINEER. IF THIS INFORMATION IS NOT PROVIDED ON THE CBMP PLANS, THE CONTRACTOR SHALL NOTIFY THE TOWN PRIOR TO CONSTRUCTION

DIVERSION DITCH SECTION LINED CHANNEL



DIVERSION DITCH SECTION UNLINED CHANNEL

DD **DIVERSION DITCH**

DIVERSION DITCH INSTALLATION NOTES

1. SEE THE PLAN VIEW FOR THE LOCATION(S) OF THE DIVERSION DITCHES.
2. A PLASTIC LINER, RIPRAP, OR EROSION CONTROL BLANKET MAY BE NECESSARY TO PROTECT THE DIVERSION DITCH. THE REQUIRED LINING MATERIAL SHALL BE OBTAINED FROM THE CBMP PLANS VIA THE DESIGN ENGINEER.
3. ALL MATERIAL EXCAVATED FROM THE DITCH MAY BE USED TO CONSTRUCT THE BERM ON THE DOWNHILL SIDE OF THE DITCH.
4. THE DIVERSION DITCH SHALL BE A MINIMUM OF 20" DEEP WITH APPROX. 3:1 SIDE SLOPES. THE ADJACENT BERM SHALL BE A MINIMUM OF 20" IN HEIGHT WITH APPROX. 3:1 SIDE SLOPES. ALL EMBANKMENTS SHALL BE FIRMLY COMPACTED.
5. THE DISCHARGE FROM THE DIVERSION DITCH SHALL BE DIRECTED TOWARDS AN APPROPRIATELY SIZED TEMPORARY SEDIMENT BASIN OR OTHER APPROVED AREA.

DIVERSION DITCH INSPECTION AND MAINTENANCE NOTES

1. THE EROSION CONTROL SUPERVISOR SHALL REGULARLY INSPECT THE DIVERSION DITCH.
2. ACCUMULATED SEDIMENT SHALL BE REMOVED ONCE THE SEDIMENT HAS REACHED A DEPTH EQUAL TO 1/2 (10") THE CREST HEIGHT.
3. DIVERSION DITCHES SHALL BE RE-GRADED FOLLOWING THE SIGNS OF MODERATE OR MORE SOIL EROSION OR ANY DAMAGE.
4. DIVERSION DITCHES ARE TO REMAIN IN PLACE AND PROPERLY MAINTAINED UNTIL VEGETATIVE COVER HAS REACHED A CONSISTENT DENSITY OF AT LEAST 70% OF FULL VEGETATIVE COVER AND EROSION AND SEDIMENTATION IS NO LONGER A POSSIBILITY AS DETERMINED BY THE TOWN'S INSPECTOR OR AS OTHERWISE DIRECTED BY THE TOWN'S INSPECTOR. ALTERNATIVELY, THE DIVERSION DITCHES MAY BE REMOVED WHEN THE SITE'S TOPOGRAPHY CHANGES SUCH THAT SIGNIFICANT RUNOFF IS NO LONGER POSSIBLE. IN SOME INSTANCES, THE DIVERSION DITCHES MAY REMAIN IN PLACE PERMANENTLY.

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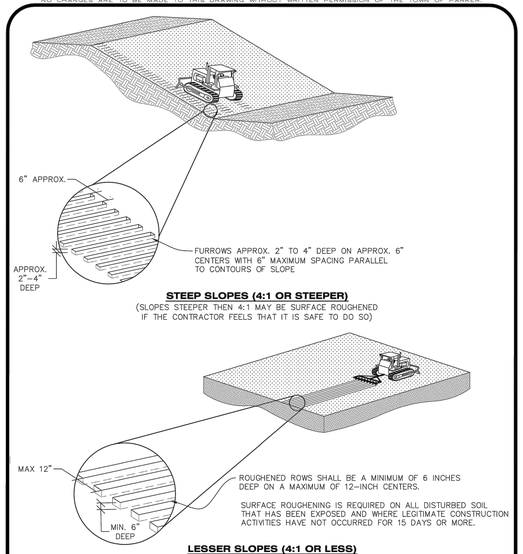
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CRITERIA PLAN 04/2020

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STEEP SLOPES (4:1 OR STEEPER)
(SLOPES STEEPER THEN 4:1 MAY BE SURFACE ROUGHENED IF THE CONTRACTOR FEELS THAT IT IS SAFE TO DO SO)

LESSER SLOPES (4:1 OR LESS)

SR **SURFACE ROUGHING**

Town of Parker COLORADO | **CBMP** CONSTRUCTION BEST MANAGEMENT PRACTICES | SR 1 OF 2 Oct. 2013

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

SURFACE ROUGHENING INSTALLATION NOTES

1. SEE CBMP PLAN FOR LOCATION(S) OF SURFACE ROUGHENING.
2. DISTURBED AREAS THAT REMAIN INACTIVE FOR 15 DAYS OR MORE MUST RECEIVE SURFACE ROUGHENING OR ANOTHER APPROVED BMP FROM THE SDECM. DETERMINATION OF JOB SITE INACTIVITY IS AT THE DISCRETION OF THE TOWN'S INSPECTOR.
3. FOR STEEP SLOPES (3:1 OR STEEPER), IT IS ACCEPTABLE TO "TRACK" THE SLOPES, ACCORDING TO THE CBMP DETAILS.
4. SCHEDULES FOR REQUIRING STABILIZATION MAY BE MODIFIED BY THE PERMITTEE TO ALLOW FOR SPECIAL CONSIDERATIONS SUCH AS STABILIZING ACCESS AREAS AND AREAS IN CLOSE PROXIMITY TO CONTINUING CONSTRUCTION.

SURFACE ROUGHENING INSPECTION AND MAINTENANCE NOTES

1. THE EROSION CONTROL SUPERVISOR SHALL PROACTIVELY INSPECT THE SURFACE ROUGHENING.

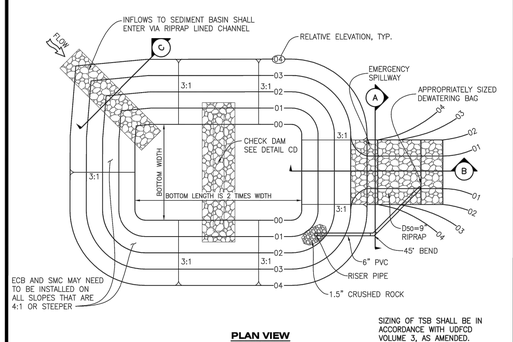
Town of Parker COLORADO | **CBMP** CONSTRUCTION BEST MANAGEMENT PRACTICES | SR 2 OF 2 Oct. 2013

To allow for a proper and timely establishment of native grasses, temporary irrigation is required over all areas where permanent native seeding is proposed. This includes, but is not limited to: detention ponds, drainageways, park and trail areas, general open space, etc. **In addition to the landscape plans, please show the temporary irrigation symbol (TI) on the CBMP Plan over all areas where permanent native seeding is proposed.** As a reminder, when working within Parker Water and Sanitation District's (PWSD) jurisdiction, the following is required:

- Temporary irrigation for native seed must be supplied by a fire hydrant hook-up. Use of proposed/existing landscape irrigation taps is not allowed. Please indicate on the irrigation plans fire hydrants that are to be used for the temporary irrigation mainline and provide a detail for the connection. This detail should show the hydrant, PRV, PWSD water meter, a 2" backflow assembly, a 2" x 2" cam lock for fire department quick disconnect and a support system for all components
- The following note must be shown on the Irrigation plan set "Temporary irrigation for establishment of native vegetation must be installed above ground, and removed immediately after establishment is complete, or in no case, any longer than one growing season." PWSD may allow temporary irrigation to continue for one additional growing season with prior approval.
- The following note must be shown on the Irrigation plan set "All temporary irrigation components including but not limited to mainlines, laterals, valves, heads and quick couplers must be installed above ground."
- All temporary irrigation components including but not limited to mainlines, laterals, valves, heads and quick couplers must be clearly labeled on the plans.
- Provide detail drawings for all above ground components including but not limited to mainlines, laterals, valves, heads and quick couplers.

If the project is outside of PWSD's jurisdiction, check with the applicable water provider regarding their specific requirements for temporary irrigation.

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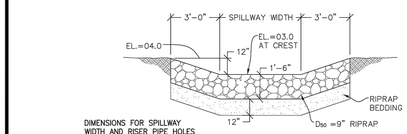
PLAN VIEW

SIZING OF TSB SHALL BE IN ACCORDANCE WITH UDFCD VOLUME 3, AS AMENDED.

TSB **TEMPORARY SEDIMENT BASIN**

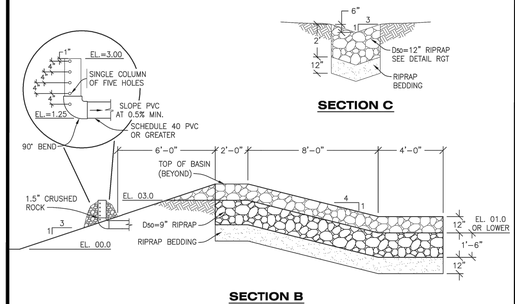
Town of Parker COLORADO | **CBMP** CONSTRUCTION BEST MANAGEMENT PRACTICES | TSB 1 OF 3 Oct. 2013

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DIMENSIONS FOR SPILLWAY WIDTH AND RISER PIPE HOLES SHALL BE IN ACCORDANCE WITH UDFCD VOLUME 3, AS AMENDED.

SECTION A



SECTION B

SECTION C

TSB **TEMPORARY SEDIMENT BASIN**

Town of Parker COLORADO | **CBMP** CONSTRUCTION BEST MANAGEMENT PRACTICES | TSB 2 OF 3 Oct. 2013

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TEMPORARY SEDIMENT BASIN INSTALLATION NOTES

1. SEE CBMP PLAN FOR LOCATION(S) OF SEDIMENT BASIN(S).
2. THE TEMPORARY SEDIMENT BASIN(S) SHALL BE INSTALLED AND FUNCTIONING PRIOR TO ANY OTHER GRADING ACTIVITIES.
3. THE EXACT DIMENSIONS AND DETAILS OF THE TEMPORARY SEDIMENT BASIN SHALL BE DETERMINED BY THE DESIGN ENGINEER, IN ACCORDANCE WITH UDFCD VOLUME 3, AS AMENDED.
4. EMBANKMENT MATERIAL SHALL CONSIST OF SOIL FREE OF DEBRIS, ORGANIC MATERIAL, AND ROCKS OR CONCRETE GREATER THAN 3" AND SHALL HAVE A MINIMUM OF 15% BY WEIGHT PASSING THE NO. 200 SIEVE.
5. EMBANKMENT MATERIAL SHALL BE COMPACTED TO A MINIMUM OF 95% DENSITY, AND WITHIN +/– 2% OF OPTIMUM MOISTURE IN ACCORDANCE WITH ASTM D698.
6. AN APPROPRIATELY SIZED DEWATERING BAG SHALL BE SECURED TO THE END OF THE DISCHARGE PIPE. THE DEWATERING BAG SHALL BE REPLACED ONCE SEDIMENT ACCUMULATION REACHES 50%.

TEMPORARY SEDIMENT BASIN INSPECTION AND MAINTENANCE NOTES

1. THE EROSION CONTROL SUPERVISOR SHALL REGULARLY INSPECT THE TEMPORARY SEDIMENT BASIN.
2. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN THE SEDIMENT REACHES A DEPTH OF 2.0', OR WITHIN 2.0' OF THE SPILLWAY CREST, OR AS OTHERWISE DIRECTED BY THE TOWN'S INSPECTOR.
3. SEDIMENT BASINS SHALL REMAIN IN PLACE AND PROPERLY MAINTAINED UNTIL UPSTREAM VEGETATIVE COVER HAS REACHED A CONSISTENT DENSITY OF AT LEAST 70% OF FULL VEGETATIVE COVER AND EROSION AND SEDIMENTATION IS NO LONGER A POSSIBILITY AS DETERMINED BY THE TOWN'S INSPECTOR.

Town of Parker COLORADO | **CBMP** CONSTRUCTION BEST MANAGEMENT PRACTICES | TSB 3 OF 3 Oct. 2013

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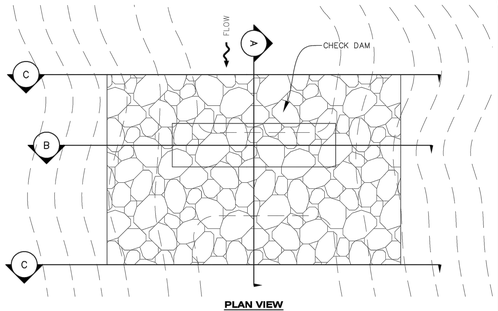
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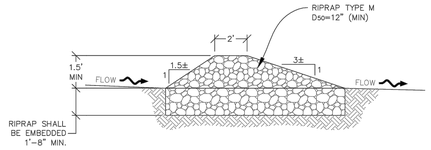
CRITERIA PLAN 04/2020

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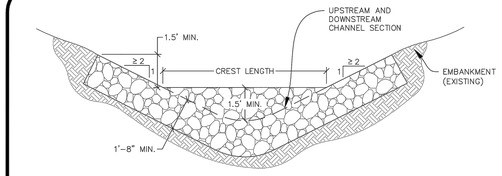
PLAN VIEW



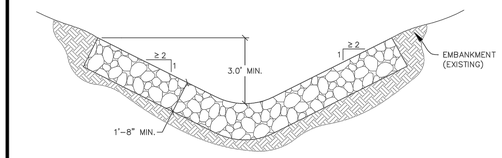
SECTION A

CD **CHECK DAM**

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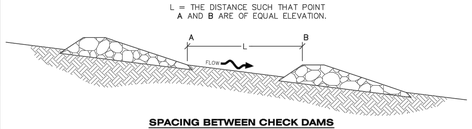


SECTION B



SECTION C

NOTE: SECTION C IS LOCATED IMMEDIATELY UPSTREAM AND DOWNSTREAM OF THE CHECK DAM, THEREFORE NO ROCK IS SHOWN WITHIN THE CHANNEL FLOW AREA.



SPACING BETWEEN CHECK DAMS

CD **CHECK DAM**

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

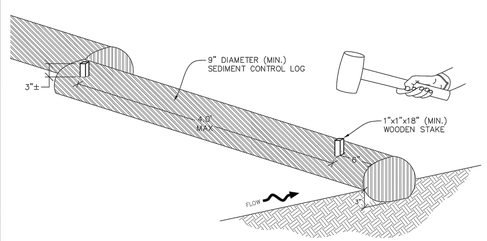
CHECK DAM INSTALLATION NOTES

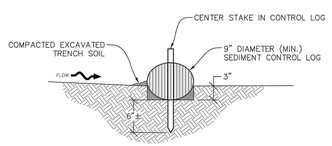
1. SEE PLAN VIEW FOR LOCATION(S) OF CHECK DAMS.
2. CHECK DAMS SHOWN ON CBMP PLAN SHALL BE INSTALLED WHEN DIRECTED BY THE TOWN'S INSPECTOR.
3. RIPRAP UTILIZED FOR CHECK DAMS SHALL HAVE A D50 MEDIAN STONE SIZE OF 12".
4. RIPRAP PAD SHALL BE TRENCHED INTO THE GROUND A MINIMUM OF 1'-8".
5. THE MAXIMUM SPACING BETWEEN CHECK DAMS SHOULD BE SUCH THAT THE BOTTOM OF THE UPSTREAM DAM IS AT THE SAME ELEVATION AS THE TOP OF THE DOWNSTREAM DAM AS SHOWN IN THE DETAIL.

CHECK DAM INSPECTION AND MAINTENANCE NOTES

1. THE EROSION CONTROL SUPERVISOR SHALL REGULARLY INSPECT THE CHECK DAMS.
2. ACCUMULATED SEDIMENT SHALL BE REMOVED ONCE SEDIMENT HAS REACHED A DEPTH EQUAL TO 1/2 THE HEIGHT OF THE CREST OR AS OTHERWISE DIRECTED BY THE TOWN'S INSPECTOR.
3. CHECK DAMS SHALL REMAIN IN PLACE AND PROPERLY MAINTAINED UNTIL VEGETATIVE COVER HAS REACHED A CONSISTENT DENSITY OF AT LEAST 70% OF FULL VEGETATIVE COVER AND EROSION AND SEDIMENTATION IS NO LONGER A POSSIBILITY AS DETERMINED BY THE TOWN'S INSPECTOR OR AS OTHERWISE DIRECTED BY THE TOWN'S INSPECTOR.
4. WHEN CHECK DAMS ARE REMOVED, THE TOWN'S INSPECTOR MAY REQUIRE EXCAVATIONS TO BE FILLED WITH SUITABLE COMPACTED TOPSOIL AND ANY DISTURBED AREAS ASSOCIATED WITH THE INSTALLATION, MAINTENANCE, AND/OR REMOVAL OF THE CHECK DAMS BE ROUGHENED, SEEDED, MULCHED, AND CRIMPED PER THE TOWN'S SPECIFICATIONS (SEE DETAIL SMC).
5. IN SOME INSTANCES, CHECK DAMS MAY REMAIN IN PLACE PERMANENTLY.

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

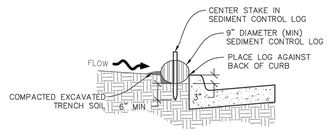




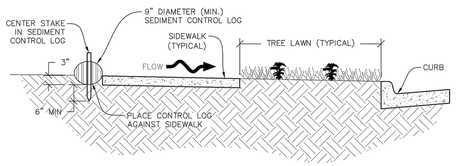
SECTION A

SCL **SEDIMENT CONTROL LOG**

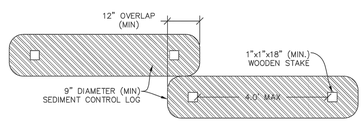
NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.



SEDIMENT CONTROL LOG AT BACK OF CURB



SEDIMENT CONTROL LOG AT SIDEWALK WITH TREE LAWN



SEDIMENT CONTROL LOG JOINTS

SCL **SEDIMENT CONTROL LOG**

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

SEDIMENT CONTROL LOG INSTALLATION NOTES

1. SEE CBMP PLAN FOR LOCATION(S) OF SEDIMENT CONTROL LOGS.
2. ALL SEDIMENT CONTROL LOGS SHALL BE INSTALLED FREE OF DEFECTS INCLUDING RIPS, HOLES AND OBVIOUS WEAR.
3. SEDIMENT CONTROL LOGS SHALL BE INSTALLED IMMEDIATELY ADJACENT TO AN IMPERVIOUS SURFACE SUCH AS A CURB HEAD, SIDEWALK, INLET LID, ETC. NO GAPS SHALL EXIST BETWEEN THE SEDIMENT CONTROL LOG AND THE IMPERVIOUS SURFACE.
4. A UNIFORM 3" DEEP ANCHOR TRENCH (APPROX.) IN THE SHAPE OF A HALF-SPHERE SHALL BE EXCAVATED USING A TRENCHER, SPADE-SHAPED SHOVEL, OR PICK. THE ANCHOR TRENCH SHALL BE SIZED TO ALLOW FOR THE SEDIMENT CONTROL LOG TO SEAT TIGHTLY AGAINST THE ANCHOR TRENCH.
5. EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF THE ANCHOR TRENCH AND PROPERLY COMPACTED.
6. ANCHOR TRENCH SHALL BE RELATIVELY FREE OF ROCKS OR OTHER DEBRIS PRIOR TO THE PLACEMENT.
7. All SEDIMENT CONTROL LOGS SHALL BE PLACED 3" (APPROX.) BELOW THE GROUND AND PULLED TIGHT ON BOTH ENDS TO REMOVE ANY CURVES OR SNAGS.
8. THE UPHILL SIDE OF THE SEDIMENT CONTROL LOG SHALL BE BACKFILLED WITH SOIL THAT IS RELATIVELY FREE OF ROCKS AND DEBRIS. THE SOIL SHALL BE TIGHTLY COMPACTED AGAINST THE GROUND AND SEDIMENT CONTROL LOG USING A SHOVEL, OR SIMILAR DEVICE.
9. SEDIMENT CONTROL LOG STAKES SHALL BE MADE OF WOOD AND SECURELY ANCHOR THE SCL IN PLACE.
10. STAKES SHALL BE PLACED ON 4.0' CENTERS AND EMBEDDED APPROXIMATELY 6" INTO THE GROUND. STAKES THAT ARE BROKEN PRIOR TO OR DURING INSTALLATION SHALL BE REPLACED.
11. SEDIMENT CONTROL LOGS SHALL OVERLAP A MINIMUM OF 12". THE OVERLAPPING SHALL OCCUR ON THE UP-GRADIENT SIDE OF THE LOGS.
12. SEDIMENT CONTROL LOGS SHALL BE STAKED WITHIN 6" FROM EACH END.
13. SEDIMENT CONTROL LOGS THAT ARE INSTALLED BEHIND CURBS AND SIDEWALKS MUST BE DONE SO THAT NO MORE THAN A 2" GAP EXISTS BETWEEN THE CONCRETE AND THE LOG. EROSION CONTROL BLANKETING (ECB) BETWEEN THE GAP MAY BE REQUIRED IN INSTANCES WHERE THIS DOES NOT OCCUR.

SEDIMENT CONTROL LOG INSPECTION AND MAINTENANCE NOTES

1. THE EROSION CONTROL SUPERVISOR SHALL REGULARLY INSPECT THE SEDIMENT CONTROL LOGS.
2. ACCUMULATED SEDIMENT SHALL BE REMOVED ONCE THE SEDIMENT HAS REACHED A DEPTH EQUAL TO 1/2 THE HEIGHT OF EXPOSED LOG.
3. SEDIMENT CONTROL LOGS SHALL REMAIN IN PLACE AND PROPERLY MAINTAINED UNTIL VEGETATIVE COVER HAS REACHED A CONSISTENT DENSITY OF AT LEAST 70% OF FULL VEGETATIVE COVER AND EROSION AND SEDIMENTATION IS NO LONGER A POSSIBILITY AS DETERMINED BY THE TOWN'S INSPECTOR OR AS OTHERWISE DIRECTED BY THE TOWN'S INSPECTOR.
4. SEDIMENT CONTROL LOGS SHALL BE REPLACED WHEN THERE ARE ANY SIGNS OF WEAR OR DAMAGE THAT WOULD PREVENT THE SCL FROM FUNCTIONING AS DESIGNED.
5. WHEN THE SEDIMENT CONTROL LOGS ARE REMOVED, ANY DISTURBED AREAS ASSOCIATED WITH THE INSTALLATION, MAINTENANCE, AND/OR REMOVAL OF THE SEDIMENT CONTROL LOGS MAY NEED TO BE ROUGHENED, SEEDED, MULCHED, AND CRIMPED PER THE TOWN'S SPECIFICATIONS (SEE DETAIL SMC).

THE TOWN OF PARKER REVIEW CONSTITUTES GENERAL COMPLIANCE WITH THE TOWN'S STANDARDS AND APPROVED VARIANCES, SUBJECT TO THESE PLANS BEING STAMPED, SIGNED, AND DATED BY THE PROFESSIONAL ENGINEER OF RECORD. REVIEW BY THE TOWN DOES NOT CONSTITUTE APPROVAL OF THE PLAN DESIGN OR ACCURACY AND CORRECTNESS OF ENGINEERING CALCULATIONS. ERRORS IN THE DESIGN OR CALCULATIONS REMAIN THE RESPONSIBILITY OF THE REGISTERED PROFESSIONAL ENGINEER WHOSE STAMP AND SIGNATURE ARE AFFIXED TO THIS DOCUMENT. THIS REVIEW DOES NOT CONSTITUTE APPROVAL OF ANY PRIVATE ON-SITE IMPROVEMENTS WHICH MAY BE SHOWN. CONSTRUCTION CANNOT COMMENCE UNTIL ALL REQUIRED DRAINAGE/TRAFFIC REPORT(S), FINAL DEVELOPMENT PLAN(S), SPECIAL REVIEW(S), GRADING PERMIT, AND/OR OTHER PERMITS ARE COMPLETE, APPROVED AND ON FILE WITH THE TOWN OF PARKER.

TOWN OF PARKER, DIRECTOR OF ENGINEERING/PUBLIC WORKS — DATE

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Denver, CO 80210
303-572-7997 www.ees.us.com

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Kum & Go
1459 Grand Ave
Des Moines, IA 50309
P: 888-458-6646

2293 - PARKER, COLORADO
BAYOU GULCH RD AND PINERY PKWY
EROSION AND STORMWATER CONTROL
DETAILS

KG PROJECT TEAM: EES
RDM: RF
SDM: DG
CPM: BS

	DATE	REVISION DESCRIPTION
△		

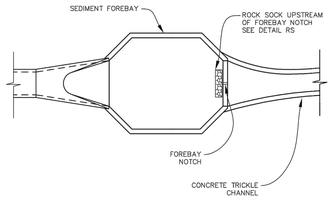
REVISIONS

DATE: 07-12-2023

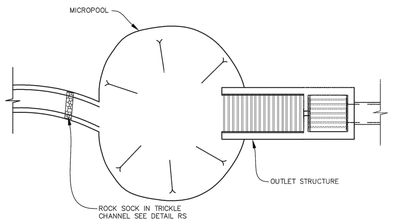
SHEET NUMBER:
C3.12
27 OF 43

P:\KUM & GO\CO, PARKER_2293 - PINERY AND BAYOU GULCH\08 CAD\CD\C3.11 EROSION AND STORMWATER CONTROL DETAILS.DWG

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.



FOREBAY



OUTLET / MICROPOOL

DP

DETENTION POND PROTECTION

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

DETENTION POND PROTECTION INSTALLATION NOTES

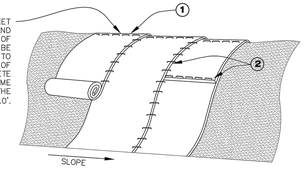
1. DETENTION POND PROTECTION SHALL BE INSTALLED IMMEDIATELY FOLLOWING THE CONSTRUCTION OF THE TRICKLE CHANNEL AND FOREBAY.
2. CRUSHED ROCK SHALL BE 2.0"–3.0" IN SIZE WITH A FRACTURED FACE (ALL SIDES).
3. ROCK SOCK FOR OUTLET STRUCTURE AND FOREBAY PROTECTION SHALL BE ONE CONTINUOUS PIECE (SEE DETAIL RS).

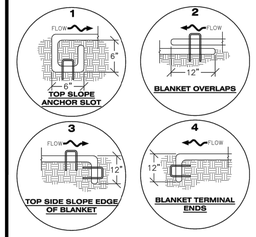
DETENTION POND PROTECTION INSPECTION AND MAINTENANCE NOTES

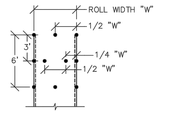
1. THE EROSION CONTROL SUPERVISOR SHALL REGULARLY INSPECT THE OUTLET STRUCTURE PROTECTION.
2. ACCUMULATED SEDIMENT SHALL BE REMOVED IMMEDIATELY.
3. OUTLET STRUCTURE PROTECTION SHALL REMAIN IN PLACE AND PROPERLY MAINTAINED UNTIL VEGETATIVE COVER HAS REACHED A CONSISTENT DENSITY OF AT LEAST 70% OF FULL VEGETATIVE COVER AND EROSION AND SEDIMENTATION IS NO LONGER A POSSIBILITY AS DETERMINED BY THE TOWN'S INSPECTOR OR AS OTHERWISE DIRECTED BY THE TOWN'S INSPECTOR.

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START EROSION BLANKET AT THE TOP OF SLOPE AND EXTEND PAST THE TOE OF SLOPE. BLANKET SHALL BE PLACED PERPENDICULAR TO THE TOP AND BOTTOM OF THE SLOPE. COMPLETE SUBSEQUENT ROWS IN THE SAME MANNER, OVERLAPPING THE BLANKETS A MINIMUM OF 1.0".







STAPLE PATTERN

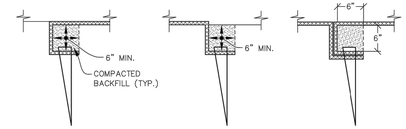
NOTE: STAPLES SHALL BE INSTALLED PER MANUFACTURERS RECOMMENDATION. IF MANUFACTURER INFO IS NOT AVAILABLE THEN ABOVE STAPLE PATTERN SHALL BE USED. WOODEN STAKES SHALL NOT BE USED FOR EROSION CONTROL BLANKET ON SLOPES.

NOTE:
WHEN NECESSARY, ALL SEEDING SHALL BE COMPLETED PRIOR TO THE PLACEMENT OF EROSION CONTROL BLANKETS. PLEASE SEE DETAIL SMC FOR SEEDING, MULCHING, AND CRIMPING REQUIREMENTS.

ECB

EROSION CONTROL BLANKET (SLOPE)

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.



TOE OF SLOPE ANCHOR TRENCH

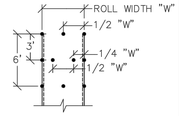
TOP OF SLOPE ANCHOR TRENCH

JOINT ANCHOR TRENCH USED TO JOIN BLANKETS TOGETHER (LONGITUDINAL)



SAW 2" x 4" LUMBER ON DIAGONAL

WOOD STAKE DETAIL
ALTERNATIVE WOOD STAKE PRODUCTS MAY BE USED WITH APPROVAL FROM THE TOWN.



NOTES:
1. WOOD STAKES SHALL BE INSTALLED SUCH THAT ONLY 1" IS EXPOSED ABOVE THE GROUND.
2. WHEN NECESSARY, ALL SEEDING SHALL BE COMPLETED PRIOR TO THE PLACEMENT OF EROSION CONTROL BLANKETS. PLEASE SEE DETAIL SMC FOR SEEDING, MULCHING, AND CRIMPING REQUIREMENTS.

STAKING PATTERN

NOTE: STAKES SHALL BE INSTALLED PER MANUFACTURERS RECOMMENDATION. IF MANUFACTURER INFO IS NOT AVAILABLE THEN ABOVE STAKING PATTERN SHALL BE USED. STAPLES SHALL NOT BE USED FOR EROSION CONTROL BLANKET IN CHANNELS.

ECB

EROSION CONTROL BLANKET (CHANNEL)

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

EROSION CONTROL BLANKET INSTALLATION NOTES

1. SEE THE PLAN VIEW FOR THE LOCATION(S) OF THE EROSION CONTROL BLANKETS.
2. EROSION CONTROL BLANKETS USED FOR CHANNEL PROTECTION SHALL BE PROPERLY SELECTED BY THE DESIGN ENGINEER BASED ON CURRENT AND FUTURE FLOW RATES WITHIN THE CHANNEL. BASED ON THESE CALCULATIONS, TURF REINFORCEMENT MATTING OR RIPRAP MAY BE NECESSARY IN LIEU OF EROSION CONTROL BLANKETS.
3. IMMEDIATELY PRIOR TO BLANKET INSTALLATION, SOIL SURFACE SHALL BE SMOOTH. AND FREE OF ANY GAPS, VOIDS, WEEDS, ROCKS, STICKS, OR OTHER MISCELLANEOUS DEBRIS.
4. EROSION CONTROL BLANKET SHALL THEN BE INSTALLED ACCORDING TO THE DETAILED DRAWINGS.
5. ANY DAMAGED OR REMAINING STAPLES OR STAKES SHALL BE REMOVED FROM THE SITE.
6. ALL EROSION CONTROL BLANKETS FOR SLOPE PROTECTION INSTALLED IN THE TOWN SHALL BE DOUBLE NET, STRAW OR EXCELSIOR.

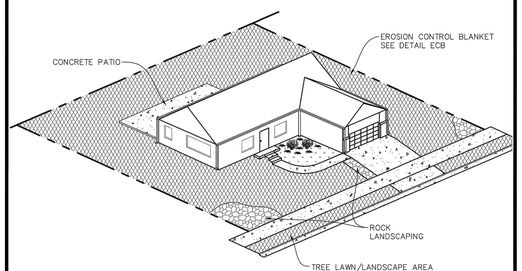
MANUFACTURER	PRODUCT NAME
NORTH AMERICAN GREEN	S150
APPROVED EQUAL	APPROVED EQUAL

7. IN MOST CASES, EROSION CONTROL BLANKETS FOR SLOPE PROTECTION ARE TO REMAIN IN PLACE PERMANENTLY.

EROSION CONTROL BLANKET MAINTENANCE NOTES

1. THE EROSION CONTROL SUPERVISOR SHALL REGULARLY INSPECT THE EROSION CONTROL BLANKETS AND MAKE ANY NECESSARY REPAIRS.

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.



LP

LOT PROTECTION

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

EROSION CONTROL BLANKET FOR LOT PROTECTION INSTALLATION NOTES

1. ALL EROSION CONTROL BLANKETS FOR LOT PROTECTION INSTALLED IN THE TOWN SHALL MEET THE FOLLOWING MINIMUM REQUIREMENTS:

MANUFACTURER	PRODUCT NAME
NORTH AMERICAN GREEN	S150 BN
APPROVED EQUAL	APPROVED EQUAL

2. ALL EROSION CONTROL BLANKETS FOR LOT PROTECTION SHALL BE INSTALLED ACCORDING TO THE DETAIL DRAWINGS, WITH THE FOLLOWING ALLOWANCES AND ADDITIONS:
   - THE TOWN WILL ALLOW THE USE OF BIODEGRADABLE, EROSION CONTROL BLANKET–SPECIFIC STAPLES, IN LIEU OF TRADITIONAL METAL STAPLES.
   - ALL EROSION CONTROL BLANKET EDGES (SIDES AND ENDS) MUST OVERLAP THE ADJACENT BLANKET BY A MINIMUM OF 6–INCHES WITH THE UP–GRADIENT EDGES BEING PLACED ON TOP OF THE DOWN–GRADIENT EDGE OF THE ADJACENT BLANKET.
   - THE EDGES (SIDES AND ENDS) OF THE EROSION CONTROL BLANKETS DO NOT NEED TO BE TRENCHED INTO THE GROUND ASSUMING THE SITE CONDITIONS WILL NOT CAUSE EROSION BENEATH THE BLANKETS. THESE ASSUMPTIONS WILL BE THE RESPONSIBILITY OF THE EROSION CONTROL SUPERVISOR. ON OCCASION, THE TOWN'S INSPECTOR MAY REQUEST TRENCHING BASED UPON SITE CONDITIONS.
   - TOPSOIL PLACEMENT, SEEDING, AND MULCHING WILL NOT BE REQUIRED ON THE LOTS PRIOR TO THE INSTALLATION OF THE EROSION CONTROL BLANKET.
3. ANY DAMAGED OR EXCESS STAPLES SHALL BE REMOVED FROM THE SITE FOLLOWING INSTALLATION.
4. THE EROSION CONTROL BLANKETING REQUIRED AS PART OF THE LOT PROTECTION (LP) REQUIREMENT MUST BE INSTALLED OVER ALL UN–LANDSCAPED AREAS WITHIN EACH RESIDENTIAL, MULTI–FAMILY, AND COMMERCIAL LOT PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY / TEMPORARY CERTIFICATE OF OCCUPANCY.

EROSION CONTROL BLANKET FOR LOT PROTECTION MAINTENANCE NOTES

1. THE EROSION CONTROL SUPERVISOR SHALL REGULARLY INSPECT THE EROSION CONTROL BLANKET FOR LOT PROTECTION.
2. EROSION CONTROL BLANKETS FOR LOT PROTECTION ARE INTENDED TO REMAIN IN PLACE AND MAINTAINED UNTIL LANDSCAPING IS INSTALLED.

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TOWN OF PARKER, DIRECTOR OF ENGINEERING/PUBLIC WORKS — DATE

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2293 - PARKER, COLORADO
BAYOU GULCH RD AND PINERY PKWY
EROSION AND STORMWATER CONTROL DETAILS

KG PROJECT TEAM: EES
RDM: RF
SDM: DG
CPM: BS

△	DATE	REVISION DESCRIPTION

REVISIONS

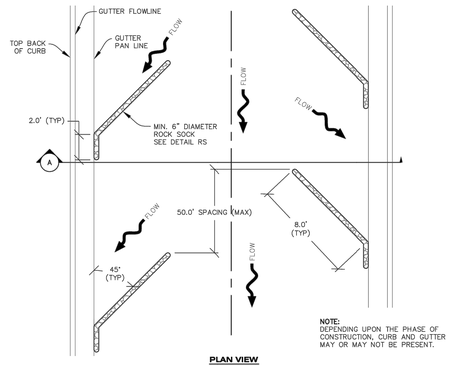
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SHEET NUMBER: C3.13
28 OF 43

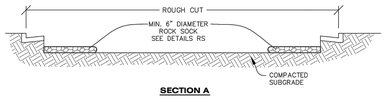
CRITERIA PLAN 04/2020

P:\KUM & GO\CO, PARKER_2293 - PINERY AND BAYOU GULCH\08 CAD\CD\C3.12 EROSION AND STORMWATER CONTROL DETAILS.DWG

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.



PLAN VIEW



SECTION A

RCSC

ROUGH CUT STREET CONTROL

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

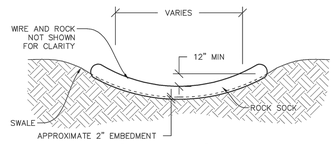
ROUGH CUT STREET CONTROL INSTALLATION NOTES

1. SEE CBMP PLAN FOR LOCATION(S) OF ROUGH CUT STREET CONTROL.
2. THE SPACING OF THE ROUGH CUT STREET CONTROL MAY BE DETERMINED BY THE DESIGN ENGINEER AND SHOWN ON THE CBMP PLAN.

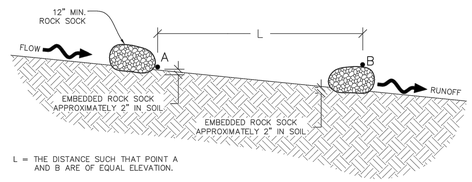
ROUGH CUT STREET CONTROL INSPECTION AND MAINTENANCE NOTES

1. THE EROSION CONTROL SUPERVISOR SHALL REGULARLY INSPECT THE ROUGH CUT STREET CONTROL.
2. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN THE SEDIMENT DEPTH IS 1/2 THE HEIGHT OF THE ROCK SOCK.
3. ROUGH CUT STREET CONTROL SHALL BE REPAIRED IMMEDIATELY FOLLOWING ANY SIGN OF WEAR OR ALTERATION OF THE ORIGINAL SHAPE AND DIMENSIONS.
4. ROUGH CUT STREET CONTROL SHALL BE KEPT IN PLACE AND MAINTAINED UNTIL SUB-GRADE PREPARATION BEGINS FOR PAVING. AT THAT POINT, THE RCSC SHOULD BE REMOVED IN INCREMENTS BASED ON SUBGRADE PREPARATION.

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.



SWALE ELEVATION



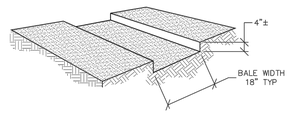
L = THE DISTANCE SUCH THAT POINT A AND B ARE OF EQUAL ELEVATION.

SWALE SPACING

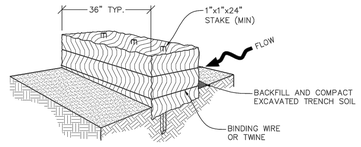
RSS

ROCK SOCK IN SWALE

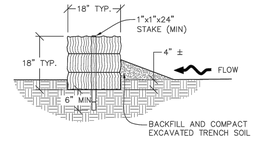
NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.



TRENCH EXCAVATION



STRAW BALE INSTALLATION



SECTION

SB

STRAW BALE

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

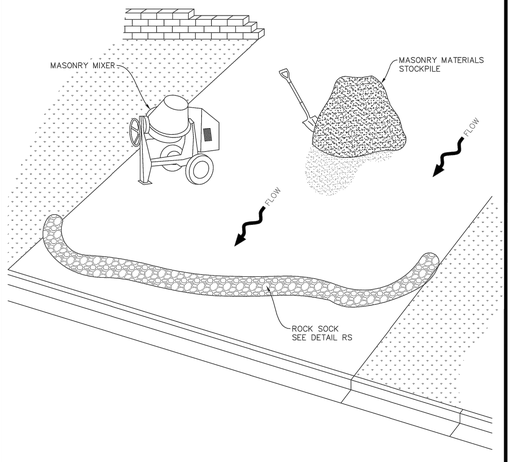
STRAW BALE INSTALLATION NOTES

1. SEE CBMP PLAN FOR LOCATION(S) OF STRAW BALES.
2. TYPICAL STRAW BALES SHALL BE APPROXIMATELY 36"X18"X18".
3. TWO (2) WOODEN STAKES SHALL BE USED TO HOLD EACH BALE IN PLACE. WOODEN STAKES SHALL BE A MINIMUM OF 1"X1"X24".
4. WOODEN STAKES SHALL BE PLACED APPROXIMATELY 6" INTO THE GROUND.
5. STRAW BALES SHALL BE SPACED AND POSITIONED ACCORDING TO DETAILS.

STRAW BALE INSPECTION AND MAINTENANCE NOTES

1. THE EROSION CONTROL SUPERVISOR SHALL REGULARLY INSPECT THE STRAW BALES.
2. ACCUMULATED SEDIMENT SHALL BE REMOVED ONCE THE SEDIMENT HAS REACHED A DEPTH EQUAL TO 1/2 THE HEIGHT OF THE STRAW BALE.
3. STRAW BALES MAY NEED TO BE REPLACED IF THEY BECOME HEAVILY SOILED, ROTTEN, OR OTHERWISE DAMAGED.
4. STRAW BALES SHALL REMAIN IN PLACE AND PROPERLY MAINTAINED UNTIL VEGETATIVE COVER HAS REACHED A CONSISTENT DENSITY OF AT LEAST 70% OF FULL VEGETATIVE COVER AND EROSION AND SEDIMENTATION IS NO LONGER A POSSIBILITY AS DETERMINED BY THE TOWN'S INSPECTOR OR AS OTHERWISE DIRECTED BY THE TOWN INSPECTOR.
5. WHEN THE STRAW BALES ARE REMOVED, ANY DISTURBED AREAS ASSOCIATED WITH THE INSTALLATION, MAINTENANCE, AND/OR REMOVAL OF THE STRAW BALES MAY NEED TO BE ROUGHENED, SEEDED, MULCHED, AND CRIMPED PER THE TOWN'S SPECIFICATIONS (SEE DETAIL SMC).

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.



MWP

MASONRY WORK PROTECTION

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

MASONRY WORK PROTECTION INSTALLATION NOTES

1. MASONRY WORK PROTECTION MAY NEED TO BE INSTALLED WHEN MASONRY WORK AND MIXING IS OCCURRING.
2. A ROCK SOCK SHALL BE INSTALLED IN A CRESCENT SHAPE ON THE DOWNHILL SIDE OF THE MASONRY WORK AND MIXER.
3. CRUSHED ROCK SHALL BE 2.0"–3.0" IN SIZE WITH A FRACTURED FACE (ALL SIDES).
4. ROCK SOCK SHALL BE ONE CONTINUOUS PIECE OR SHALL BE CONSTRUCTED USING WIRE WRAPPED JOINTS (SEE DETAIL RS).
5. ROCK SOCK SHALL BE CONSTRUCTED USING CHICKEN WIRE OR OTHER APPROVED MATERIAL, SIZED TO KEEP ROCK FROM SPILLING OUT.

MASONRY WORK PROTECTION INSPECTION AND MAINTENANCE NOTES

1. THE EROSION CONTROL SUPERVISOR SHALL REGULARLY INSPECT THE MASONRY WORK PROTECTION.
2. ALL CONCRETE WASTE SHALL BE REGULARLY CLEANED AND PLACED IN THE CONCRETE WASH OUT AREA.
3. ROCK SOCKS SHALL BE REPLACED IF THEY BECOME HEAVILY SOILED OR DAMAGED.

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TOWN OF PARKER, DIRECTOR OF ENGINEERING/PUBLIC WORKS — DATE

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1459 Grand Ave
Des Moines, IA 50309
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2293 - PARKER, COLORADO
BAYOU GULCH RD AND PINERY PKWY
EROSION AND STORMWATER CONTROL DETAILS

KG PROJECT TEAM: EES
RDM: RF
SDM: DG
CPM: BS

REVISIONS

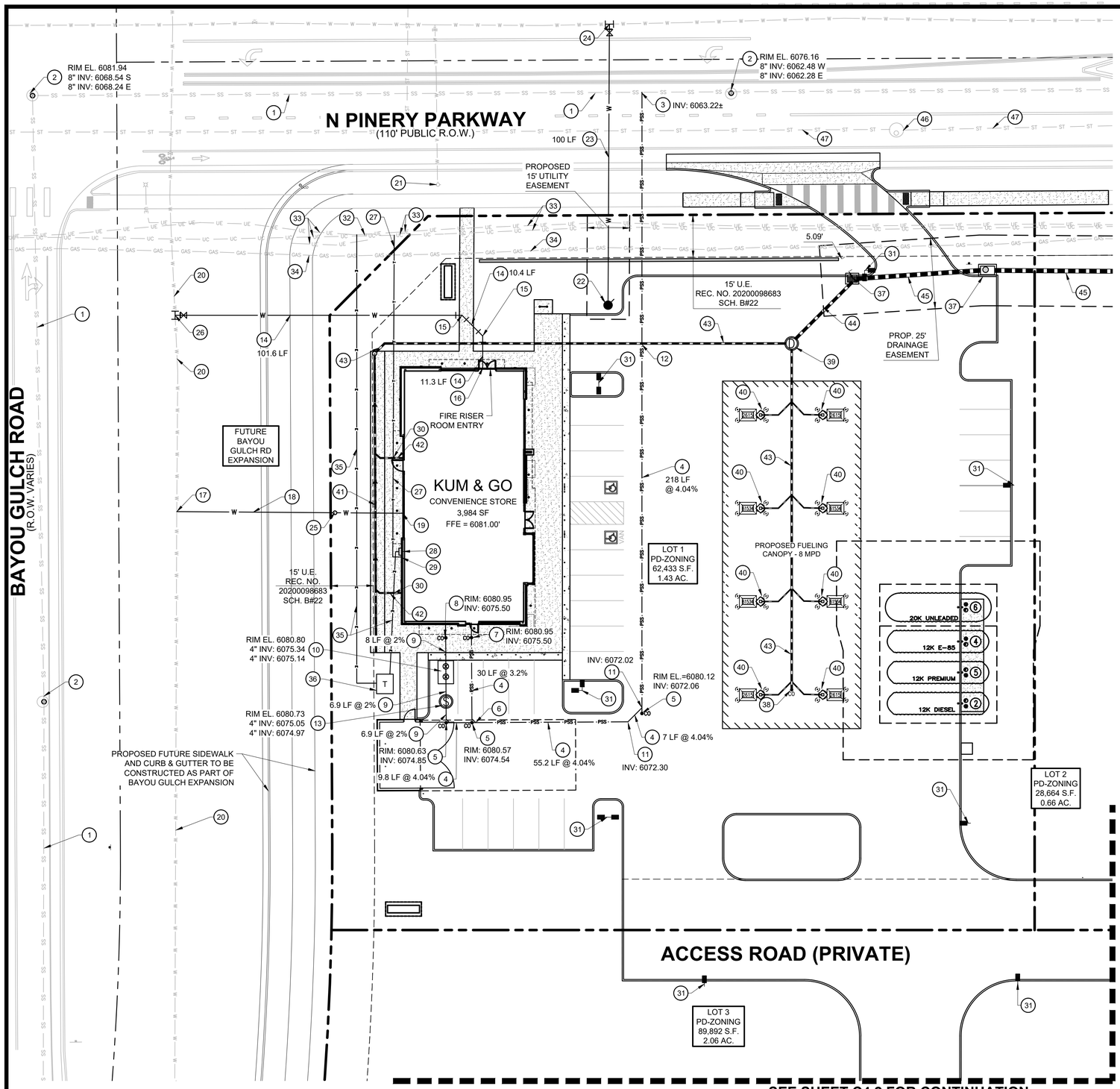
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DATE: 07-12-2023

SHEET NUMBER: C3.14
29 OF 43

P:\KUM & GO\CO_PARKER_2293 - PINERY AND BAYOU GULCH\08 CAD\CD\C3.13 EROSION AND STORMWATER CONTROL DETAILS.DWG

CRITERIA PLAN 04/2020



N

SCALE IN FEET
0 20 40

IF BAR DOES NOT MEASURE 1 INCH THEN DRAWING IS NOT TO SCALE

UTILITY LEGEND

- PROPERTY BOUNDARY
- EXISTING EASEMENT
- EXISTING SANITARY SEWER
- EXISTING WATER
- EXISTING STORM SEWER
- EXISTING UNDERGROUND ELECTRIC
- EXISTING UNDERGROUND COMMUNICATION
- EXISTING GAS
- PROPOSED SANITARY SEWER
- PROPOSED WATER
- PROPOSED STORM SEWER
- PROPOSED UNDERGROUND ELECTRIC
- PROPOSED COMMUNICATION LINE
- PROPOSED STORM INLET AND MANHOLE
- PROPOSED DRAINAGE FLOW ARROWS
- EXISTING STREET LIGHT
- EXISTING FIRE HYDRANT
- PROPOSED SITE LIGHT

SANITARY SEWER

1. EXISTING 8" SANITARY SEWER MAIN TO REMAIN.
2. EXISTING SANITARY SEWER MANHOLE TO REMAIN.
3. PROPOSED WYE CONNECTION AT EXISTING 8" SANITARY SEWER MAIN.
4. PROPOSED 4" PVC SANITARY SERVICE. SEE PLAN FOR PIPE SLOPE AND LENGTH.
5. PROPOSED 4" SANITARY SEWER CLEANOUT. SEE PLAN FOR INVERT ELEVATION.
6. PROPOSED WYE CONNECTION. SEE PLAN FOR INVERT ELEVATION.
7. PROPOSED 4" SANITARY SEWER SERVICE CONNECTION 5' FROM BUILDING.
8. PROPOSED 4" GREASE INTERCEPTOR SERVICE CONNECTION 5' FROM BUILDING.
9. PROPOSED 4" PVC GREASE INTERCEPTOR SERVICE LINE. SEE PLAN FOR PIPE SLOPE AND LENGTH.
10. PROPOSED 1,000 GALLON GREASE INTERCEPTOR WITH SAMPLE PORT. SEE PLAN FOR PIPE CONNECTION INVERT ELEVATIONS AND RIM ELEVATIONS.
11. PROPOSED 4" 45° BEND. SEE PLAN FOR INVERT ELEVATION.
12. PROPOSED 4" SEWER SERVICE LINE CROSSING WITH PROPOSED 8" STORM SEWER.
    4" SS INV: 6066.81
    8"SD INV: 6075.45
13. PROPOSED SANITARY SAMPLING MANHOLE.

WATER

14. PROPOSED 6" DIP FIRE LINE (PRIVATE).
15. PROPOSED 45° - 6" DIP BENDS WITH THRUST BLOCKS.
16. PROPOSED 6" DIP FIRE SERVICE LINE (PRIVATE) CONNECTION TO BUILDING. PROVIDE 5.5-FT OF COVER.
17. PROPOSED 2" DOMESTIC WATER SERVICE TAP.
18. PROPOSED 81 LF OF 2" TYPE K COPPER DOMESTIC WATER SERVICE LINE.
19. PROPOSED 2" TYPE K COPPER DOMESTIC WATER CONNECTION TO BUILDING AND WATER METER INSET BUILDING. PROVIDE 5.5-FT OF COVER. STUB 5' OFF OF BUILDING.
20. EXISTING WATER MAIN TO REMAIN.
21. EXISTING FIRE HYDRANT TO REMAIN.
22. PROPOSED FIRE HYDRANT.
23. PROPOSED 6" DIP FIRE HYDRANT LINE (PUBLIC).
24. PROPOSED 6" DIP FIRE HYDRANT SERVICE CONNECTION TO WATER MAIN. INSTALL 12"X6" TAPPING SLEEVE WITH 6" TAPPING VALVE.
25. PROPOSED 2" CURB STOP.
26. PROPOSED 6" DIP FIRE LINE SERVICE CONNECTION TO WATER MAIN. INSTALL 12"X6" TAPPING SLEEVE WITH 6" TAPPING VALVE.

DRY UTILITIES

27. APPROXIMATE LOCATION OF PROPOSED TELECOMMUNICATION SERVICE LINE.
28. PROPOSED ELECTRICAL BUILDING CONNECTION. CORE EUSREC CABINET (30"W x 30"H x 11"D)
29. PROPOSED TELECOMMUNICATION BUILDING CONNECTION.
30. ELECTRICAL AND TELECOMMUNICATION LINES UNDER PROPOSED ROOF DRAIN AT CROSSING.
31. APPROXIMATE LOCATION OF PROPOSED SITE LIGHT.
32. EXISTING TEL-PED TO REMAIN.
33. EXISTING UNDERGROUND TELECOMMUNICATIONS AND ELECTRIC TO REMAIN.
34. EXISTING GAS MAIN TO REMAIN.
35. APPROXIMATE LOCATION OF PROPOSED UNDERGROUND ELECTRICAL SERVICE LINE.
36. PROPOSED ELECTRIC TRANSFORMER PAD.

STORM SEWER

NOTE: REFERENCE SHEETS C4.3- C4.5 FOR SEWER DESIGN INFORMATION.

37. PROPOSED STORM SEWER INLET.
38. PROPOSED STORM SEWER CLEANOUT.
39. PROPOSED STORM SEWER MANHOLE.
40. PROPOSED 4" PVC CANOPY DRAIN PIPE CONNECTION.
41. PROPOSED 8" STORM ADS SLOTTED DRAIN.
42. PROPOSED 6" ROOF DOWNSPOUT WITH DRAIN LINE CONNECTION TO 8" ADS SLOTTED DRAIN.
43. PROPOSED 8" STORM SEWER, SDR 35 PVC SOLID OR DUEL WALL HDPE W/ WATER TIGHT FITTINGS.
44. PROPOSED 12" STORM SEWER, SDR 35 PVC SOLID OR DUEL WALL HDPE W/ WATER TIGHT FITTINGS.
45. PROPOSED 18" RCP STORM SEWER.
46. EXISTING STORM STRUCTURE TO REMAIN.
47. EXISTING STORM SEWER TO REMAIN.

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TOWN OF PARKER, DIRECTOR OF ENGINEERING/PUBLIC WORKS — DATE

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

CALL UTILITY NOTIFICATION CENTER OF COLORADO
1-800-922-1987 or 811
CALL 3-BUSINESS DAYS (NOT INCLUDING INITIAL DAY OF CONTACT) IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

NOTE: THE PROPOSED UTILITY CONNECTION WITHIN TOWN RIGHT-OF-WAY WILL REQUIRE A TOWN RIGHT-OF-WAY PERMIT PRIOR TO COMMENCING WORK. THE TOWN REQUIRES CONNECTIONS TO BE BORED TO THE EXTENT POSSIBLE, AND ANY STREET CUT ALLOWED BY THE TOWN WILL BE REQUIRED TO BE PATCHED ACCORDING TO THE TOWN'S CONSTRUCTION STANDARDS AND DETAILS. THE LIMITS OF PATCHING WILL BE DETERMINED BY THE TOWN AT THE TIME OF CONSTRUCTION. THE TOWN OF PARKER DOES NOT ALLOW ROADWAY CLOSURES FOR UTILITY WORK.

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2293 - PARKER, COLORADO
BAYOU GULCH RD AND PINERY PKWY

UTILITY PLAN

KG PROJECT TEAM: EES
RDM: RF
SDM: DG
CPM: BS

REVISIONS

	DATE	REVISION DESCRIPTION
1		

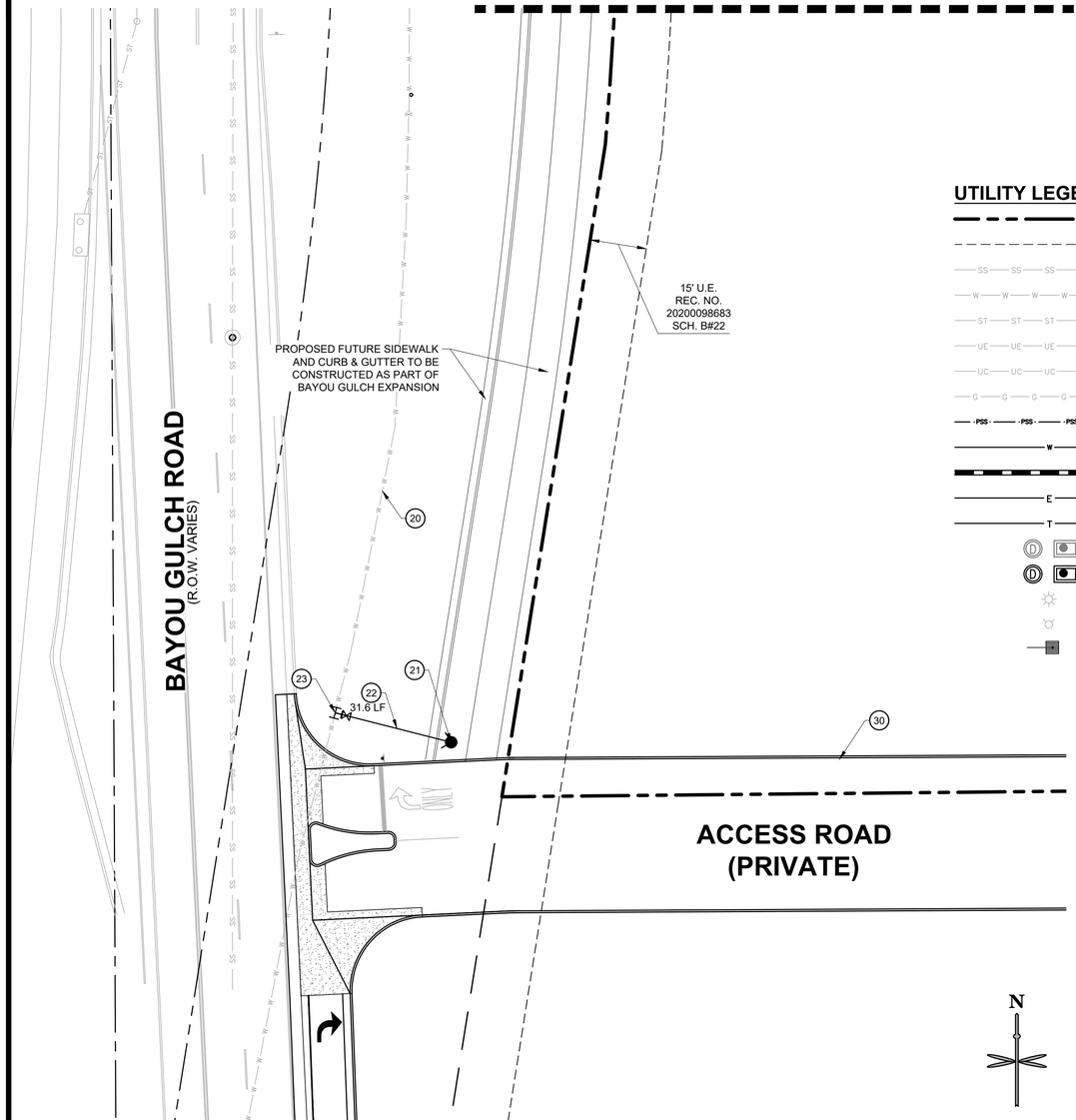
DATE: 07-12-2023

SHEET NUMBER: C4.1
30 OF 43

P:\KUM & GO\CO, PARKER_2293 - PINERY AND BAYOU GULCH\08 CAD\CD\2293 - 08B - UTILITY PLAN.DWG

CRITERIA PLAN 04/2020

SEE SHEET C4.1 FOR CONTINUATION



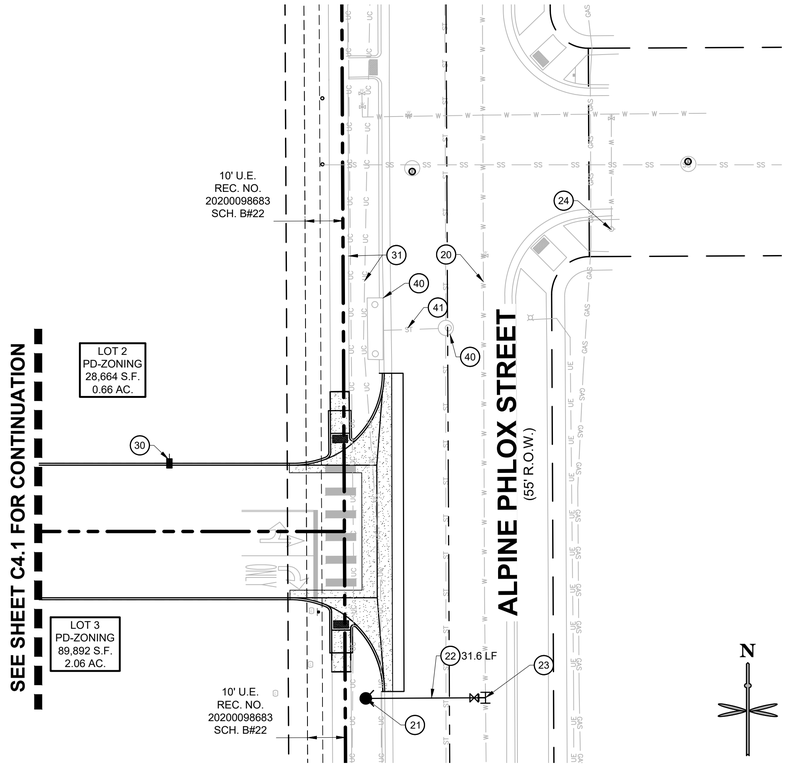
BAYOU GULCH ACCESS

SCALE IN FEET
0 20 40

IF BAR DOES NOT MEASURE
1 INCH THEN DRAWING IS
NOT TO SCALE

UTILITY LEGEND

- PROPERTY BOUNDARY
- EXISTING EASEMENT
- SS — EXISTING SANITARY SEWER
- W — EXISTING WATER
- ST — EXISTING STORM SEWER
- UE — EXISTING UNDERGROUND ELECTRIC
- UC — EXISTING UNDERGROUND COMMUNICATION
- G — EXISTING GAS
- PSS — PROPOSED SANITARY SEWER
- W — PROPOSED WATER
- PROPOSED STORM SEWER
- E — PROPOSED UNDERGROUND ELECTRIC
- T — PROPOSED COMMUNICATION LINE
- PROPOSED STORM INLET AND MANHOLE
- PROPOSED DRAINAGE FLOW ARROWS
- EXISTING STREET LIGHT
- EXISTING FIRE HYDRANT
- PROPOSED SITE LIGHT



ALPINE PHLOX ACCESS

SCALE IN FEET
0 20 40

IF BAR DOES NOT MEASURE
1 INCH THEN DRAWING IS
NOT TO SCALE

WATER

(20) EXISTING WATER MAIN TO REMAIN.

(21) PROPOSED FIRE HYDRANT.

(22) PROPOSED 6" DIP FIRE HYDRANT LINE (PUBLIC).

(23) PROPOSED 6" DIP FIRE HYDRANT SERVICE CONNECTION TO WATER MAIN. INSTALL 12"X6" TAPPING SLEEVE WITH 6" TAPPING VALVE.

(24) EXISTING FIRE HYDRANT TO REMAIN

DRY UTILITIES

(30) APPROXIMATE LOCATION OF PROPOSED SITE LIGHT.

(31) EXISTING UNDERGROUND TELECOMMUNICATIONS AND ELECTRIC TO REMAIN.

STORM SEWER

NOTE: REFERENCE KUM & GO GAS AND C-STORE CONSTRUCTION DOCUMENTS FOR STORM SEWER DESIGN INFORMATION.

(40) EXISTING STORM STRUCTURE TO REMAIN.

(41) EXISTING STORM SEWER TO REMAIN.

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2293 - PARKER, COLORADO
BAYOU GULCH RD AND PINERY PKWY

OFFSITE UTILITY PLAN

KG PROJECT TEAM: EES
RDM: RF
SDM: DG
CPM: BS

REVISIONS

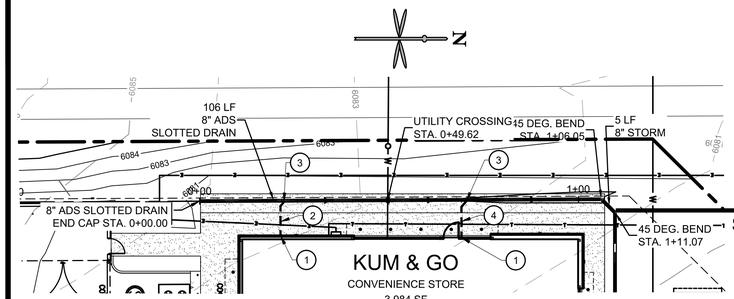
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DATE: 07-12-2023

SHEET NUMBER:
C4.2
31 OF 43

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CRITERIA PLAN 04/2020



MATCHLINE
SEE PLAN BELOW

STORM SEWER PIPING AND STRUCTURE NOTES:

1. PROPOSED 6" ROOF DRAIN DOWN SPOUT BUILDING CONNECTION. REFER TO ARCHITECTURAL PLANS FOR DETAILS AND INFORMATION REGARDING POINT OF CONNECTION / CONTINUATION AT THE BUILDING. 6" INV.=6079.60
2. 9.2 LF OF 6" PVC STORM @ 2%
3. 6" PVC CONNECTION WITH 8" ADS SLOTTED DRAIN SYSTEM SEE PROFILE FOR ELEVATION.
4. 9.2 LF OF 6" PVC STORM @ 4.8%

SCALE IN FEET
0 20 40

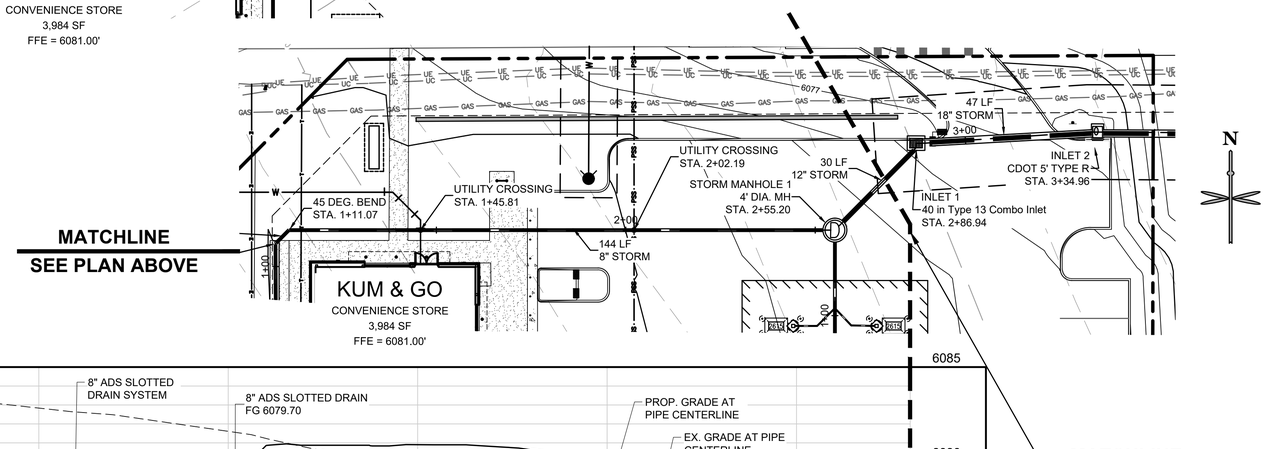
IF BAR DOES NOT MEASURE 1 INCH THEN DRAWING IS NOT TO SCALE

NOTE:

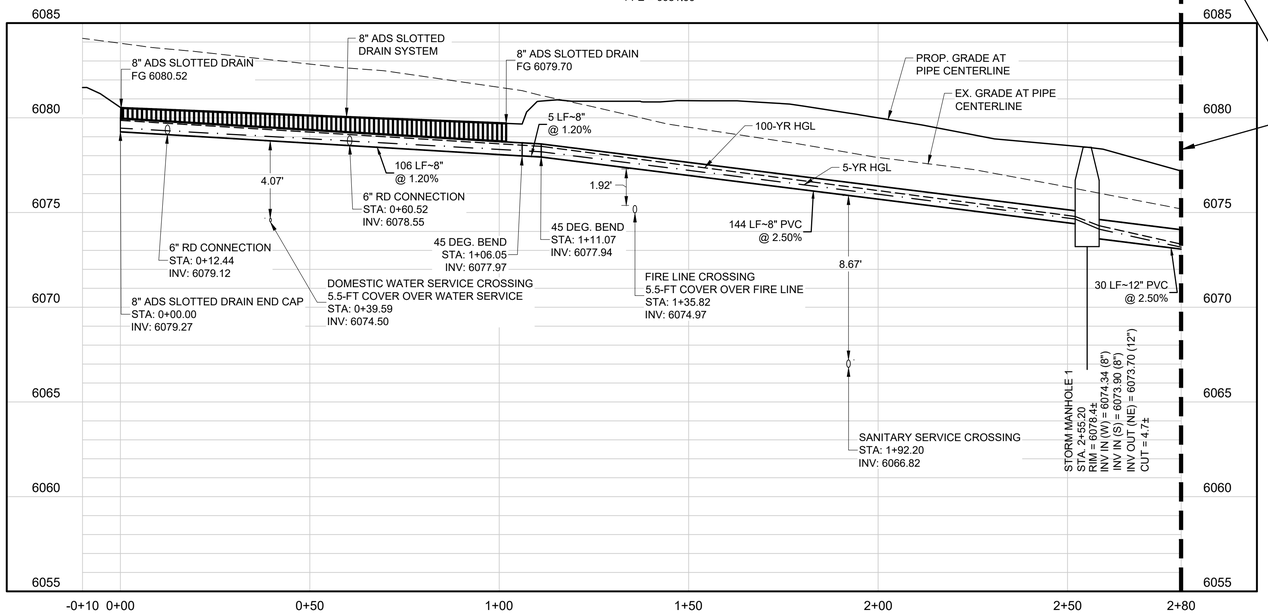
1. SEE SHEETS C5.5 AND C5.6 FOR 8" ADS SLOTTED DRAIN SYSTEM DETAILS.

PLAN LEGEND

- PROPERTY BOUNDARY
- EXISTING EASEMENT
- EXISTING MAJOR CONTOUR (5280)
- EXISTING MINOR CONTOUR (5280)
- PROPOSED MAJOR CONTOUR (5200)
- PROPOSED MINOR CONTOUR (5200)
- EXISTING STORM SEWER (ST)
- PROPOSED STORM SEWER
- EXISTING STORM INLET AND MANHOLE
- PROPOSED STORM INLET AND MANHOLE



MATCHLINE
SEE PLAN ABOVE



MATCHLINE
SEE SHEET C4.4

PROFILE STORM SEWER (STA: -0+10 TO 2+80)

SCALES: 1'=20' HORIZONTAL, 1"=4' VERTICAL

BENCHMARK:

ELEVATIONS ARE BASED UPON A POST-PROCESSED STATIC GNSS CONNECTION MADE TO DOUGLAS COUNTY GIS POINT 1.051038 BEING A FOUND 3.25" ALLOY CAP STAMPED "DOUGLAS COUNTY - 1.051038 - SECONDARY CONTROL MONUMENT" UTILIZING GEOID18 TO MODEL THE ELLIPSOID SEPARATION AND HAVING A PUBLISHED ELEVATION OF: 6053.87 FEET (NAVD 88). SITE BENCH MARK: FWS CONTROL POINT 501 BEING A SET NO.5 REBAR WITH A 2" ALLOY CAP STAMPED "FWS CONTROL POINT" LOCATED APPROXIMATELY 144.5' SOUTH OF THE INTERSECTION OF THE CENTER-LINES OF NORTH PINERY PARKWAY AND ALPINE PHLOX STREET AND 23' WEST OF THE CENTER-LINE OF ALPINE PHLOX STREET HAVING AN ESTABLISHED ELEVATION OF 6069.33' NAVD 88.

811 Know what's **below.** **Call** before you dig.
CALL 811 SEVENTY-TWO HOURS PRIOR TO DIGGING, GRADING OR EXCAVATING FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

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2293 - PARKER, COLORADO
BAYOU GULCH RD AND PINERY PKWY

STORM SEWER PLAN AND PROFILE

KG PROJECT TEAM: EES
RDM: RF
SDM: DG
CPM: BS

REVISIONS

	DATE	REVISION DESCRIPTION
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DATE: 07-12-2023

SHEET NUMBER:
C4.3
32 OF 43

P:\KUM & GO\CO, PARKER_2293 - PINERY AND BAYOU GULCH\08 CAD\CD\2293 - 23 - STORM SEWER PP.DWG

CRITERIA PLAN 04/2020

SCALE IN FEET
0 20 40

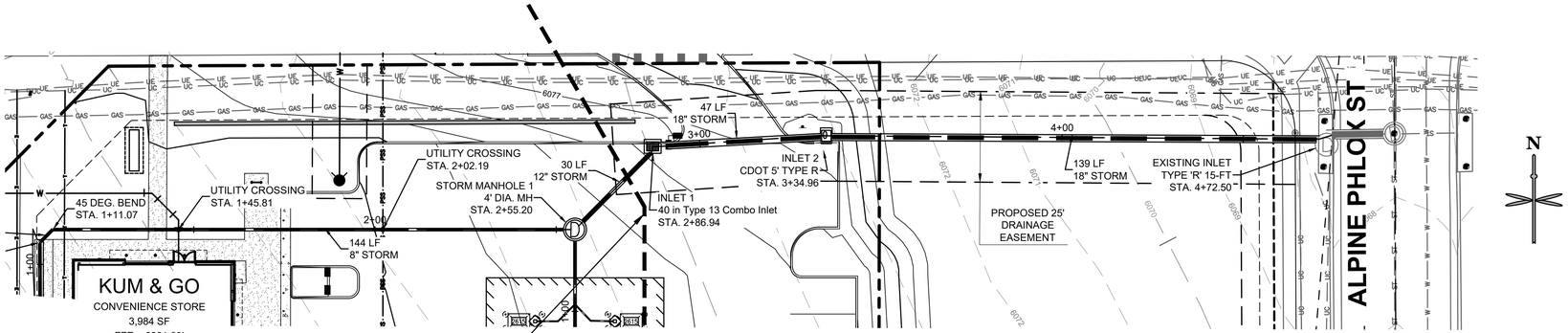
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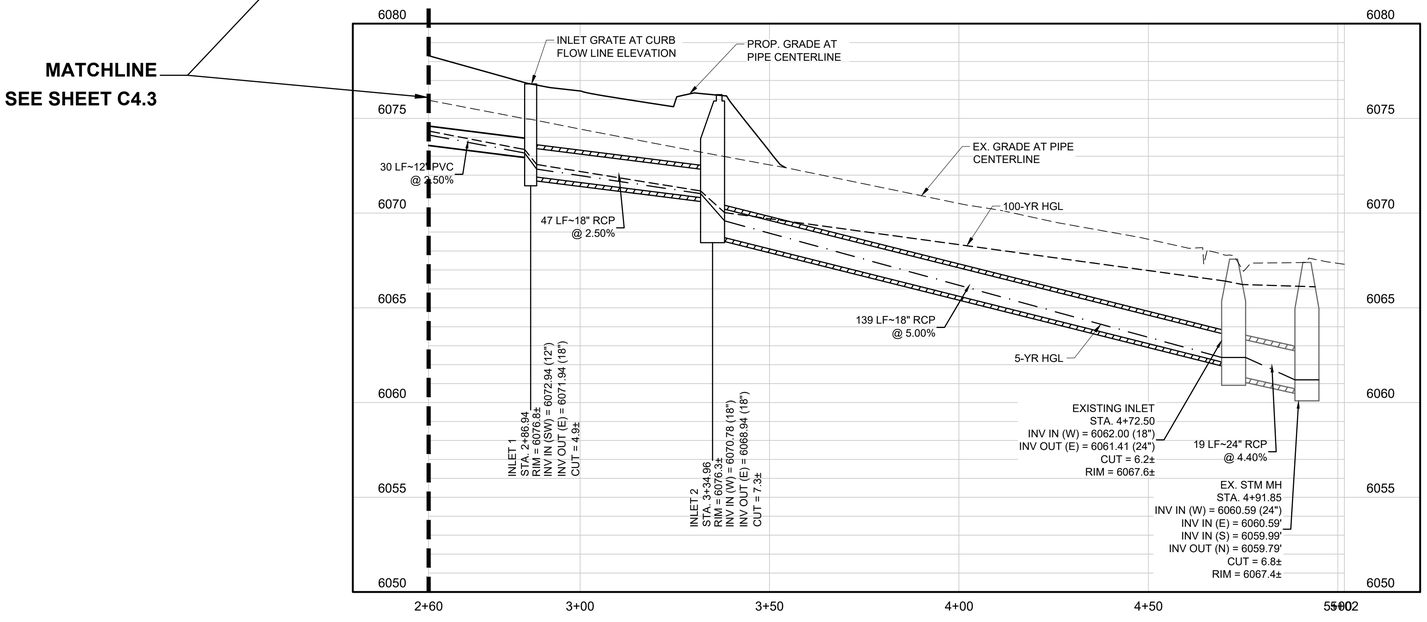
NOTE:

1. SEE SHEETS C5.5 AND C5.6 FOR 8" ADS SLOTTED DRAIN SYSTEM DETAILS.

PLAN LEGEND

- PROPERTY BOUNDARY
- EXISTING EASEMENT
- EXISTING MAJOR CONTOUR (5280)
- EXISTING MINOR CONTOUR (5280)
- PROPOSED MAJOR CONTOUR (5200)
- PROPOSED MINOR CONTOUR (5200)
- EXISTING STORM SEWER (ST)
- PROPOSED STORM SEWER
- EXISTING STORM INLET AND MANHOLE
- PROPOSED STORM INLET AND MANHOLE





PROFILE STORM SEWER (STA: 2+60 TO 5+02)

SCALES: 1'=20' HORIZONTAL, 1"=4' VERTICAL

BENCHMARK:

ELEVATIONS ARE BASED UPON A POST-PROCESSED STATIC GNSS CONNECTION MADE TO DOUGLAS COUNTY GIS POINT 1.051038 BEING A FOUND 3.25" ALLOY CAP STAMPED "DOUGLAS COUNTY - 1.051038 - SECONDARY CONTROL MONUMENT" UTILIZING GEOID18 TO MODEL THE ELLIPSOID SEPARATION AND HAVING A PUBLISHED ELEVATION OF: 6053.87 FEET (NAVD 88). SITE BENCH MARK: FWS CONTROL POINT 501 BEING A SET NO.5 REBAR WITH A 2" ALLOY CAP STAMPED "FWS CONTROL POINT" LOCATED APPROXIMATELY 144.5' SOUTH OF THE INTERSECTION OF THE CENTER-LINES OF NORTH PINERY PARKWAY AND ALPINE PHLOX STREET AND 23' WEST OF THE CENTER-LINE OF ALPINE PHLOX STREET HAVING AN ESTABLISHED ELEVATION OF 6069.33' NAVD 88.

811 Know what's **below.** **Call** before you dig.
CALL 811 SEVENTY-TWO HOURS PRIOR TO DIGGING, GRADING OR EXCAVATING FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

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Kum & Go
1459 Grand Ave
Des Moines, IA 50309
P: 888-458-6646

2293 - PARKER, COLORADO
BAYOU GULCH RD AND PINERY PKWY

STORM SEWER PLAN AND PROFILE

KG PROJECT TEAM: EES
RDM: RF
SDM: DG
CPM: BS

REVISIONS

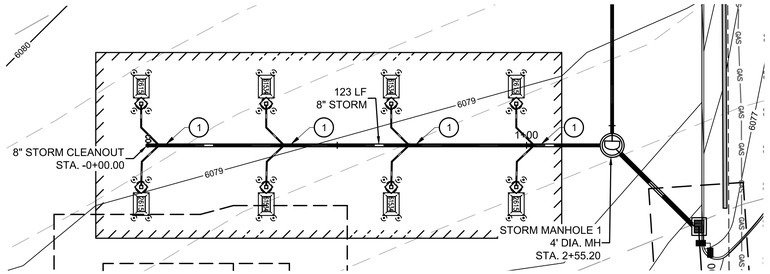
△	DATE	REVISION DESCRIPTION

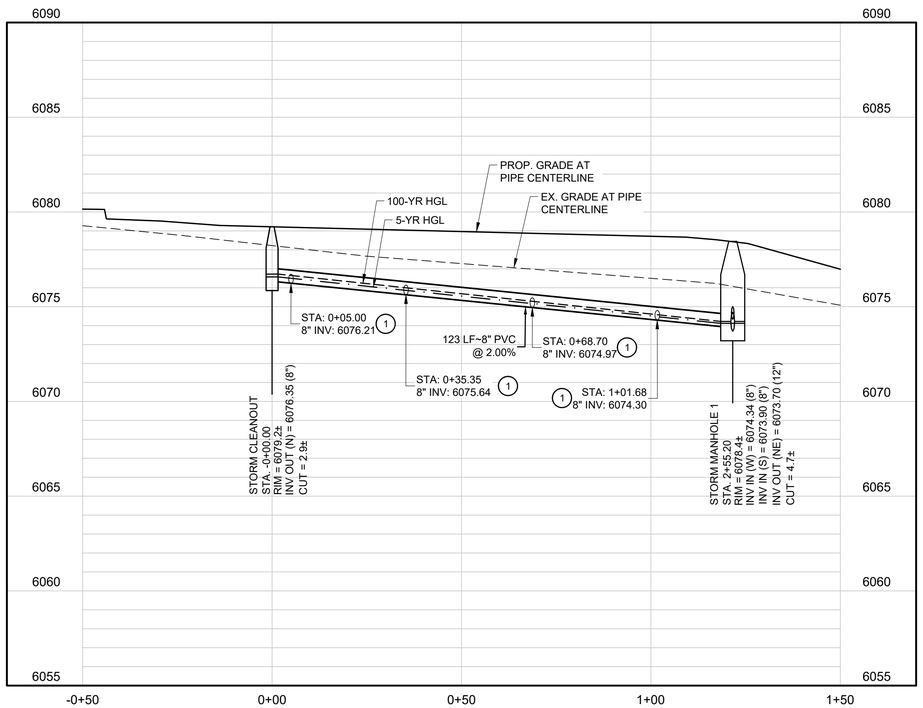
DATE: 07-12-2023

SHEET NUMBER: C4.4
33 OF 43

P:\KUM & GO\CO, PARKER_2293 - PINERY AND BAYOU GULCH\08 CAD\CD\2293 - 23 - STORM SEWER PP.DWG

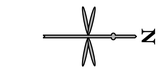
CRITERIA PLAN 04/2020





PROFILE STORM SEWER 2 (STA: -0+50 TO 1+50)

SCALES: 1'=20' HORIZONTAL, 1"=4' VERTICAL



PLAN LEGEND

- PROPERTY BOUNDARY
- EXISTING EASEMENT
- EXISTING MAJOR CONTOUR (5280)
- EXISTING MINOR CONTOUR (5280)
- PROPOSED MAJOR CONTOUR (5200)
- PROPOSED MINOR CONTOUR (5200)
- EXISTING STORM SEWER (ST)
- PROPOSED STORM SEWER
- EXISTING STORM INLET AND MANHOLE
- PROPOSED STORM INLET AND MANHOLE

STORM SEWER PIPING AND STRUCTURE NOTES:

1. 6" CANOPY DRAINAGE CONNECTION, EAST AND WEST. SEE PROFILE FOR INVERT ELEVATION.

BENCHMARK:

ELEVATIONS ARE BASED UPON A POST-PROCESSED STATIC GNSS CONNECTION MADE TO DOUGLAS COUNTY GIS POINT 1.051038 BEING A FOUND 3.25" ALLOY CAP STAMPED "DOUGLAS COUNTY - 1.051038 - SECONDARY CONTROL MONUMENT" UTILIZING GEOID18 TO MODEL THE ELLIPSOID SEPARATION AND HAVING A PUBLISHED ELEVATION OF: 6053.87 FEET (NAVD 88). SITE BENCH MARK: FWS CONTROL POINT 501 BEING A SET NO.5 REBAR WITH A 2" ALLOY CAP STAMPED "FWS CONTROL POINT" LOCATED APPROXIMATELY 144.5' SOUTH OF THE INTERSECTION OF THE CENTER-LINES OF NORTH PINERY PARKWAY AND ALPINE PHLOX STREET AND 23' WEST OF THE CENTER-LINE OF ALPINE PHLOX STREET HAVING AN ESTABLISHED ELEVATION OF 6069.33' NAVD 88.

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BAYOU GULCH RD AND PINERY PKWY

STORM SEWER PLAN AND PROFILE

KG PROJECT TEAM: EES
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SDM: DG
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REVISIONS

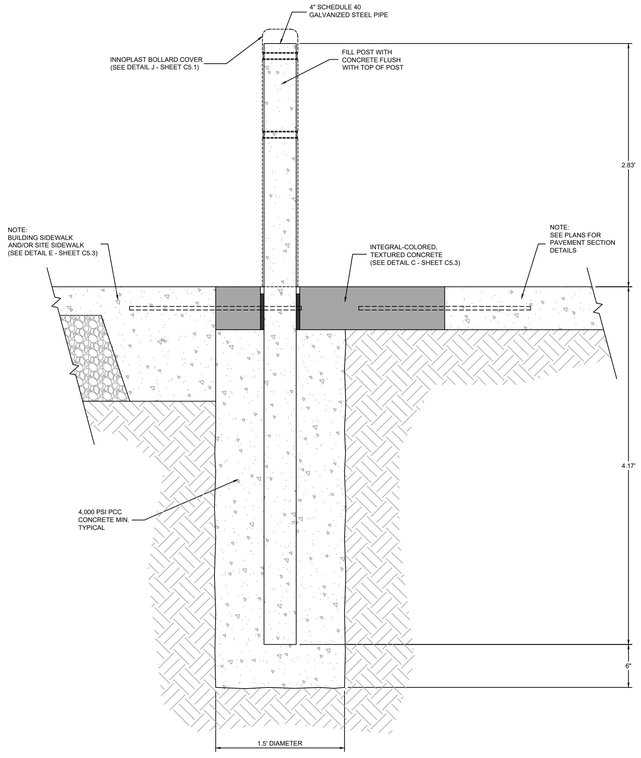
	DATE	REVISION DESCRIPTION
1		

DATE: 07-12-2023

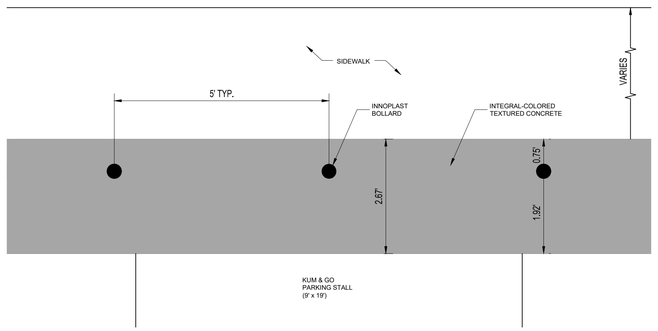
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34 OF 43

P:\KUM & GO\CO, PARKER_2293 - PINERY AND BAYOU GULCH\08 CAD\CD\2293 - 24 - STORM SEWER PP.DWG

CRITERIA PLAN 04/2020



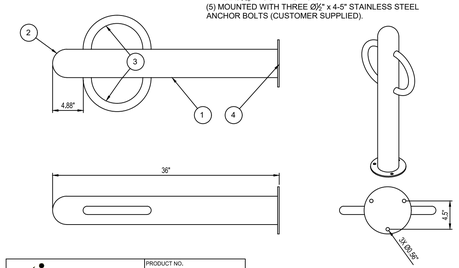
I BOLLARD DETAIL (TYP.)
NOT TO SCALE



H BOLLARD DETAIL (PLAN VIEW)
NOT TO SCALE

NOTES:
1. BIKE RACK TO BE INSTALLED IN CENTER OF 5'-0" x 6'-6" CONCRETE PAD.
2. BOLLARD SHALL HAVE A ONYX POWDER COAT FINISH.

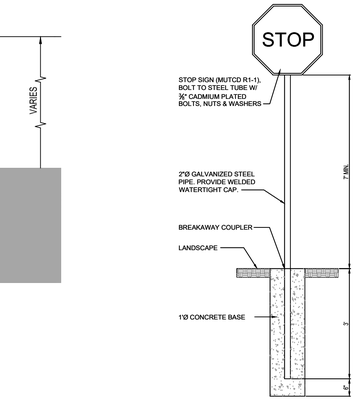
MATERIALS LIST
(1) TUBING - Ø4½" x ¼" WALL STEEL TUBING.
(2) CAP - Ø4½" x ¼" WALL STEEL DOME.
(3) LOOP - Ø1.315" x .133" WALL STEEL TUBING.
(4) SURFACE PLATE - Ø7½" x ½" THICK STEEL PLATE WITH THREE Ø⅝" MOUNTING HOLES.
(5) MOUNTED WITH THREE Ø⅝" x 4-5" STAINLESS STEEL ANCHOR BOLTS (CUSTOMER SUPPLIED).



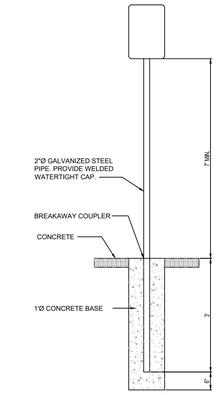
siteSCAPES PRODUCT NO. BP4-02-SM-PF
*Available in powder coat and DuraCoat finishes

NOTE:
BIKE RACKS OWNER
SUPPLIED-CONTRACTOR INSTALLED

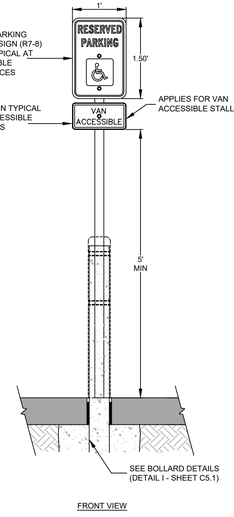
G BOLLARD BIKE RACK DETAIL
NOT TO SCALE

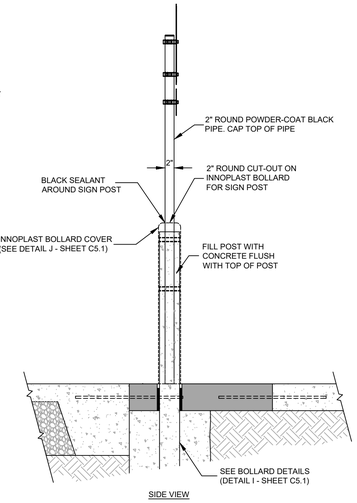


C SIGN IN LANDSCAPE
NOT TO SCALE

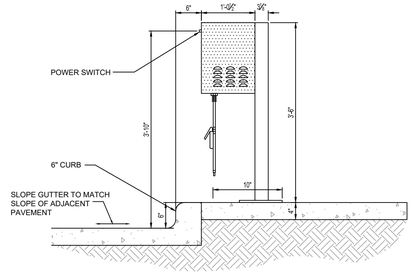


B SIGN IN CONCRETE
NOT TO SCALE

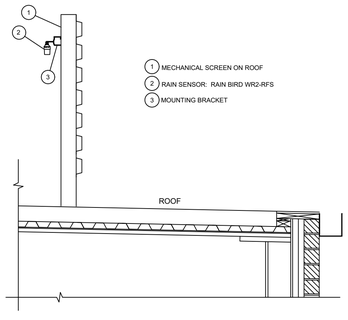




A BOLLARD–MOUNTED ADA SIGN
NOT TO SCALE

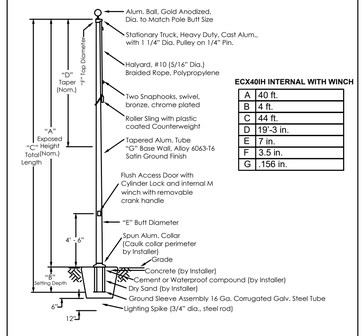


D AIR MACHINE
NOT TO SCALE



E RAIN SENSOR
NOT TO SCALE

NOTE:
FLAG POLES OWNER SUPPLIED-OWNER INSTALLED



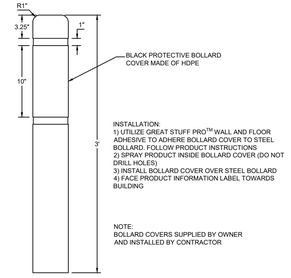
ECX40IH INTERNAL WITH WINCH	
A	40 ft.
B	4 ft.
C	44 ft.
D	19'-3 in.
E	7 in.
F	3.5 in.
G	.156 in.

CUSTOMER NAME: Kum & Go DATE:
POLE SECTIONS 2 QUANTITY 1 FINISH Satin Finish

F 40' FLAG POLE
NOT TO SCALE



NOMINAL WALL: 0.125"



J INNOPLAST BOLLARD COVER
NOT TO SCALE

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CIVIL DETAILS

KG PROJECT TEAM: EES
RDM: RF
SDM: DG
CPM: BS

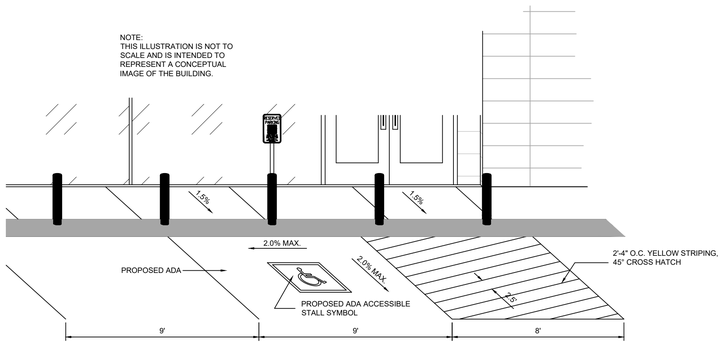
REVISIONS

	DATE	REVISION DESCRIPTION
1		

DATE: 07-12-2023

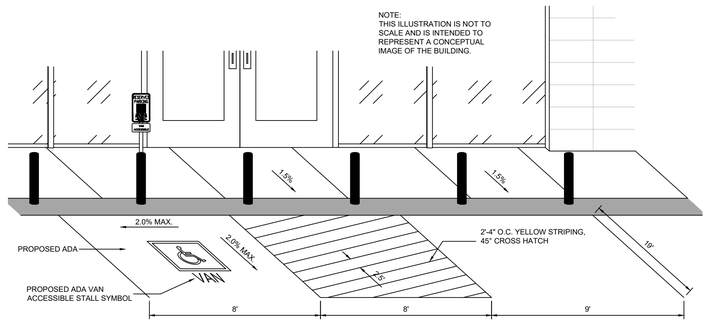
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P:\KUM & GO\CO. PARKER_2293 - PINERY AND BAYOU GULCH\08 CAD\CD\2293 - 25 - CIVIL DETAILS.DWG



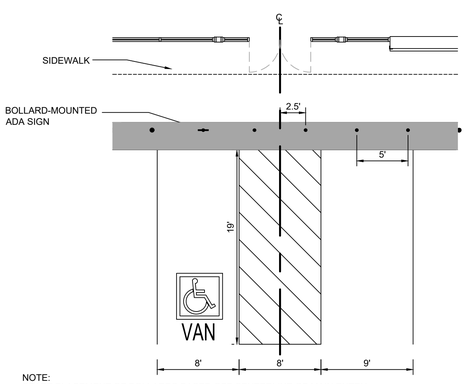
NOTES:
1. ALL ACCESSIBLE STALL PAVEMENT MARKINGS SHALL BE 4" WIDE YELLOW STRIPES.
2. ACCESSIBLE AISLE SHALL BE 8' WIDE FOR VANS.
3. ACCESSIBLE PARKING AREA SURFACE SHALL NOT EXCEED 2% SLOPE IN ANY DIRECTION.
4. A SIGN MUST MARK ACCESSIBLE PARKING. THE SYMBOL ON THE PAVEMENT IS NOT ADEQUATE.

M BUILDING SIDE SIDEWALK & PARKING STALL
NOT TO SCALE



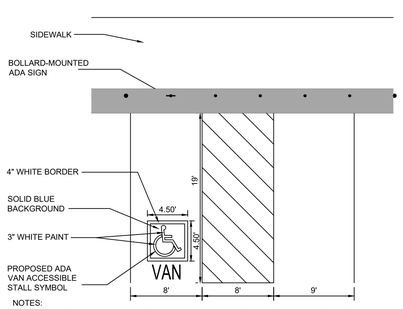
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L BUILDING FRONT SIDEWALK & PARKING STALL
NOT TO SCALE



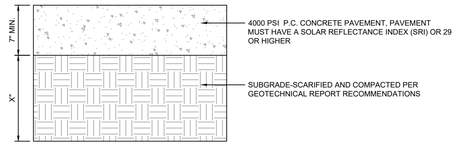
NOTE:
START PLACEMENT OF BOLLARDS BASED OFF CENTERLINE OF MAIN ENTRY.

K BOLLARD PLACEMENT DETAILS
NOT TO SCALE

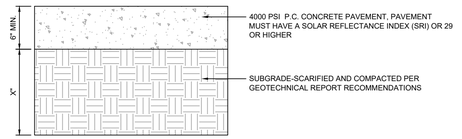


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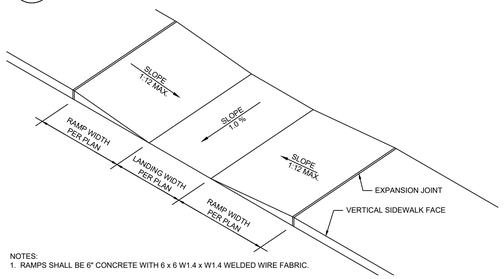
J ACCESSIBLE FRONT PARKING STALL
NOT TO SCALE



I HEAVY DUTY CONCRETE PAVEMENT SECTION
NOT TO SCALE

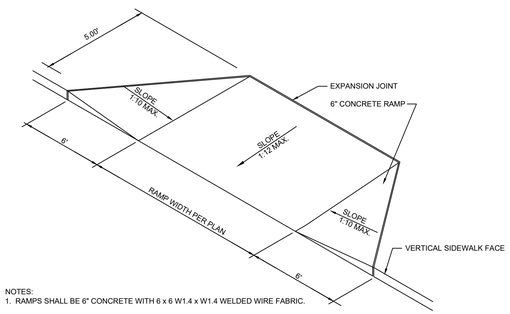


H STANDARD DUTY CONCRETE PAVEMENT SECTION
NOT TO SCALE



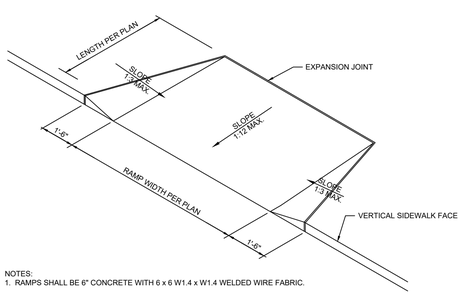
NOTES:
1. RAMPS SHALL BE 6" CONCRETE WITH 6 x 6 W1.4 x W1.4 WELDED WIRE FABRIC.

G ADA PARALLEL CURB RAMP DETAIL
NOT TO SCALE



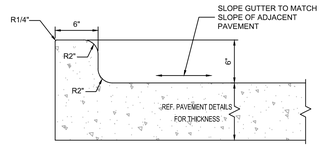
NOTES:
1. RAMPS SHALL BE 6" CONCRETE WITH 6 x 6 W1.4 x W1.4 WELDED WIRE FABRIC.

F ADA CURB RAMP DETAIL, TYPE 2
NOT TO SCALE

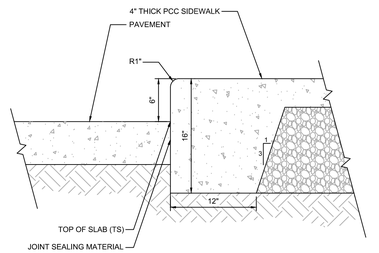


NOTES:
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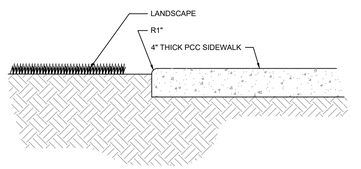
E ADA CURB RAMP DETAIL, TYPE 1
NOT TO SCALE



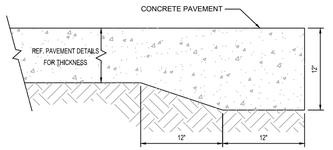
D INTEGRAL CONCRETE CURB DETAIL
NOT TO SCALE



C 6" CURB/SIDEWALK DETAIL
NOT TO SCALE



B SIDEWALK DETAIL
NOT TO SCALE



A THICKENED CONCRETE PAVEMENT EDGE
NOT TO SCALE

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Denver, CO 80210
303-572-7997 www.ees.us.com

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Kum & Go

1459 Grand Ave
Des Moines, IA 50309
P: 888-458-6646

2293 - PARKER, COLORADO
BAYOU GULCH RD AND PINERY PKWY

CIVIL DETAILS

KG PROJECT TEAM: EES
RDM: RF
SDM: DG
CPM: BS

REVISIONS

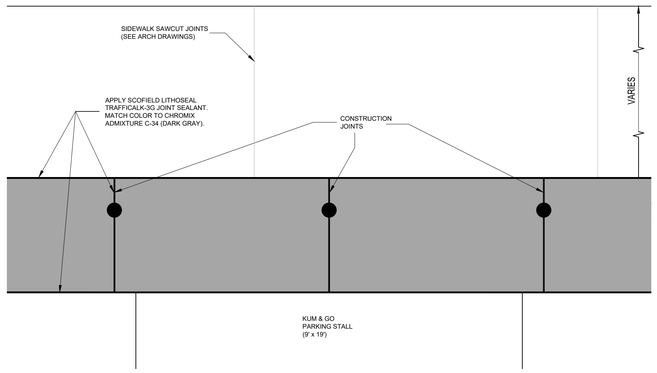
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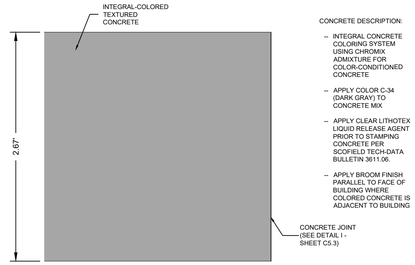
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36 OF 43

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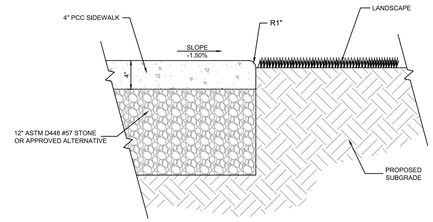
CRITERIA PLAN 04/2020



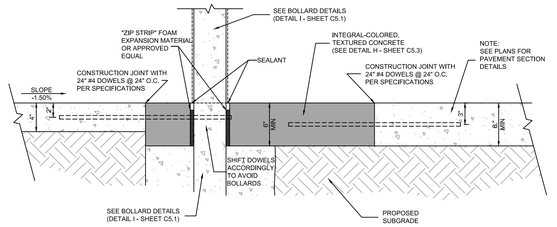
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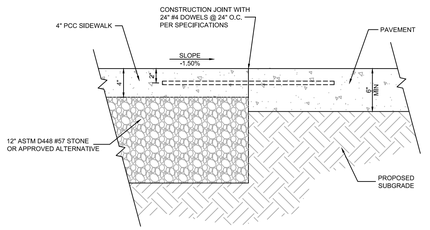
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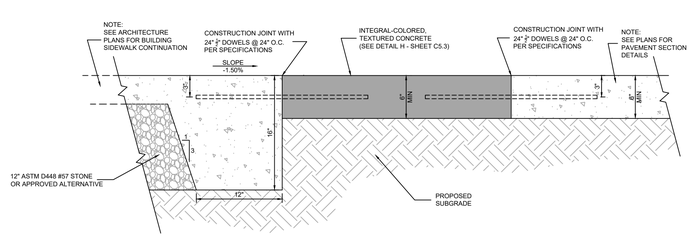
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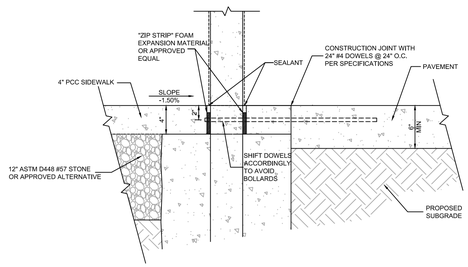
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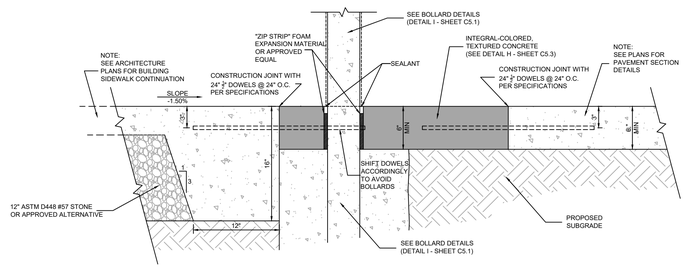
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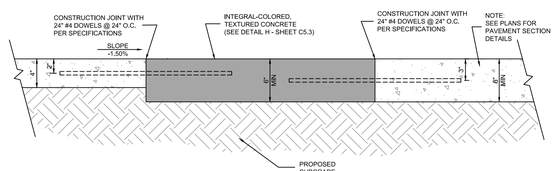
B BUILDING SIDEWALK TO PAVEMENT DETAIL
NOT TO SCALE



E SITE SIDEWALK AT BOLLARD - NO COLORED CONCRETE
NOT TO SCALE



A BUILDING SIDEWALK AT BOLLARD DETAIL
NOT TO SCALE



D SITE SIDEWALK TO PAVEMENT DETAIL
NOT TO SCALE

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TOWN OF PARKER,
DIRECTOR OF ENGINEERING/PUBLIC WORKS

DATE

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BAYOU GULCH RD AND PINERY PKWY

CIVIL DETAILS

KG PROJECT TEAM: EES
RDM: RF
SDM: DG
CPM: BS

REVISIONS

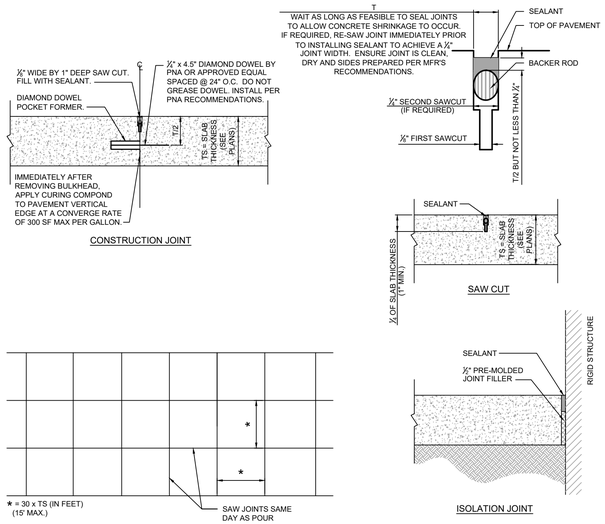
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DATE: 07-12-2023

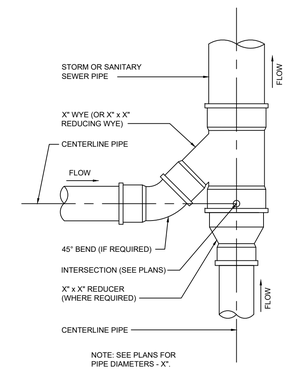
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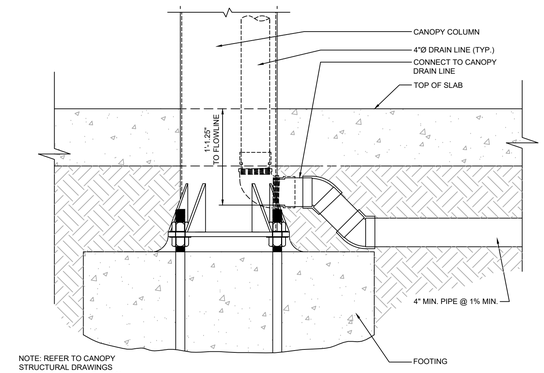
CRITERIA PLAN 04/2020



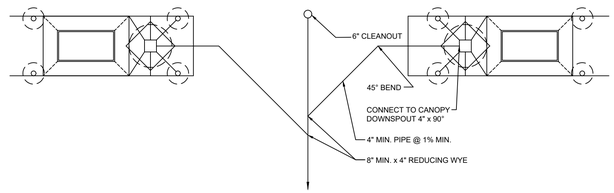
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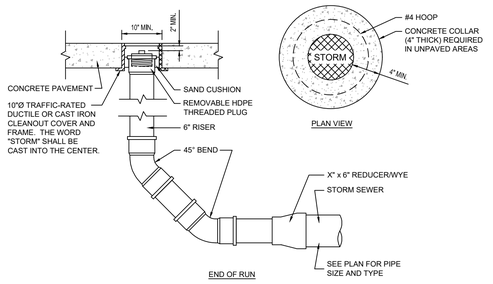
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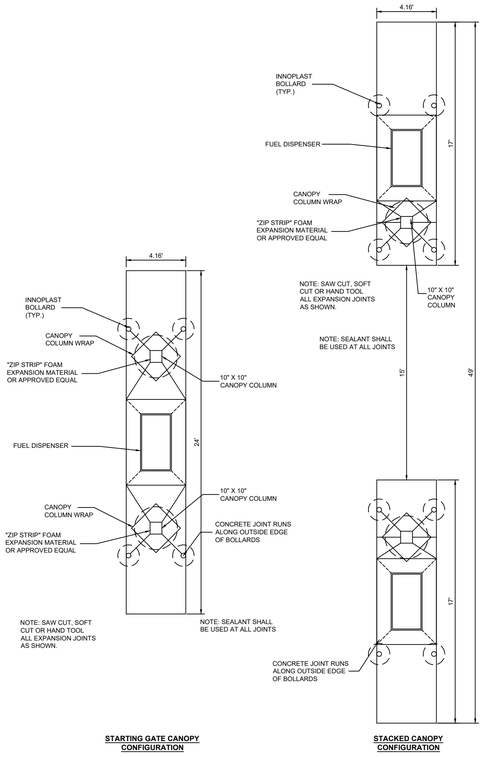
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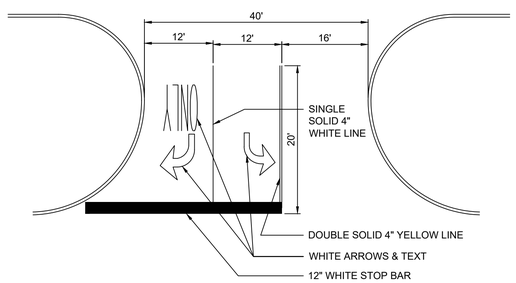
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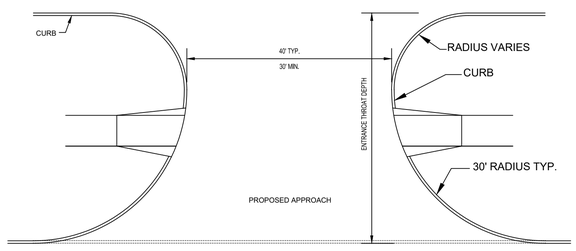
A STORM SEWER CLEANOUT
NOT TO SCALE



G CONCRETE JOINTS AT CANOPY COLUMNS
NOT TO SCALE



F DRIVEWAY ENTRANCE MARKINGS
NOT TO SCALE



E DRIVEWAY ENTRANCE
NOT TO SCALE

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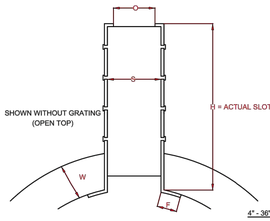
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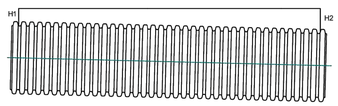
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CRITERIA PLAN 04/2020

DURASLOT® VARIABLE SLOT RISER
4" - 36" DIAMETER





ELEVATION VIEW

4" - 36" PIPE WITH VARIABLE SLOT RISER DIMENSIONS

PIPE DIAM.	H	W	F	O	S	PRODUCT # (GRATED)	PRODUCT # (OPEN TOP)
4" (100mm)	VARIES	0.34"	0.5"	1.25"	1.75"	0490DS	0490DSOT
6" (150mm)	VARIES	0.5" (13mm)	0.75" (19mm)	1.75" (44mm)	2.25" (57mm)	0690DS	0690DSOT
8" (200mm)	VARIES	0.625" (16mm)	0.75" (19mm)	1.75" (44mm)	2.25" (57mm)	0890DS	0890DSOT
10" (250mm)	VARIES	0.75" (19mm)	0.75" (19mm)	1.75" (44mm)	2.25" (57mm)	1090DS	1090DSOT
12" (300mm)	VARIES	1.125" (29mm)	0.75" (19mm)	1.75" (44mm)	2.25" (57mm)	1290DS	1290DSOT
15" (375mm)	VARIES	1.25" (32mm)	0.75" (19mm)	1.75" (44mm)	2.25" (57mm)	1590DS	1590DSOT
18" (450mm)	VARIES	1.5" 38mm)	0.75" (19mm)	1.75" (44mm)	2.25" (57mm)	1890DS	1890DSOT
24" (600mm)	VARIES	1.875" (48mm)	1.0" (25mm)	1.75" (44mm)	2.25" (57mm)	2490DS	2490DSOT
30" (750mm)	VARIES	2.55" (65mm)	1" (25mm)	1.75" (45mm)	2.25" (57mm)	3090DS	3090DSOT
36" (900mm)	VARIES	2.85" (72mm)	1" (25mm)	1.75" (45mm)	2.25" (57mm)	3690DS	3690DSOT

NOTE:
A. SLOT HEIGHTS TO CONFORM TO DIMENSIONS ON PROJECT PLANS. 'H' AT EACH END OF EACH LENGTH OF DURASLOT® TO BE DETAILED ON SLOT DIMENSIONS LAYOUTS FOR APPROVAL BEFORE PRODUCTION.
B. DIMENSION FROM GRADE TO PIPE INVERT: H (ACTUAL SLOT HEIGHT) + PIPE DIAMETER + RECESS (¾"-1¼")
C. H1 AND H2 VARY BASED ON PROJECT SPECIFICATIONS.

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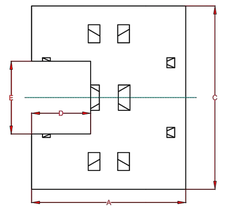
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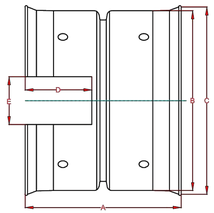
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SHEET 1 OF 1

DURASLOT® ADAPTERS
4" - 36" DIAMETER

(ST CLEATED INTERNAL ADAPTER FOR 4" PIPE DIAMETER)



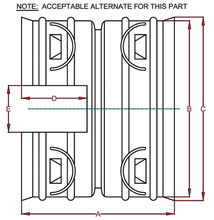
(BELL-BELL ADAPTER FOR 6-10" PIPE DIAMETER)



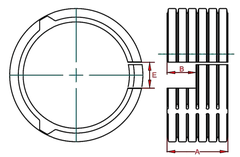
2.5", 6" & VARIABLE SLOT RISER ADAPTER DIMENSIONS

PIPE DIAM.	A	B	C	D	E	PRODUCT #
4" (100mm)	4" (100mm)	NA	4.75" (120mm)	1.25" (32mm)	2" (50mm)	0462DS
6" (150mm)	7.25" (184mm)	6.95" (177mm)	7.63" (194mm)	3" (76mm)	2.5" (64mm)	0662DS
8" (200mm)	8.25" (210mm)	9.17" (233mm)	10.13" (257mm)	3.5" (89mm)	2.5" (64mm)	0862DS
10" (250mm)	9.25 (235mm)	11.56" (294mm)	12.13" (308mm)	4" (100mm)	2.5" (64mm)	1062DS
12" (300mm)	14" (356mm)	14.6" (371mm)	15.4" (391mm)	5.5" (140mm)	2.5" (64mm)	1262DS
15" (375mm)	16" (406mm)	17.75 (449mm)	18.6" (472mm)	6.5" (165mm)	2.5" (64mm)	1562DS
18" (450mm)	18" (457mm)	21.4" (544mm)	22.4" (569mm)	7.5" (191mm)	2.5" (64mm)	1862DS
24" (600mm)	14.8" (374mm)	28.2" (716mm)	29.25" (743mm)	6" (152mm)	2.5" (64mm)	2462DS
30" (750mm)	16.5" (419mm)	8" (203mm)	NA	NA	2.5" (64mm)	3062DS
36" (900mm)	20.8" (528mm)	10" (254mm)	NA	NA	2.5" (64mm)	3662DS

(ST CLEATED EXTERNAL ADAPTER FOR 12" PIPE DIAMETER)
NOTE: ACCEPTABLE ALTERNATE FOR THIS PART



(SPLIT COUPLER ADAPTER FOR 30 & 36" PIPE DIAMETER)



END VIEW SIDE VIEW

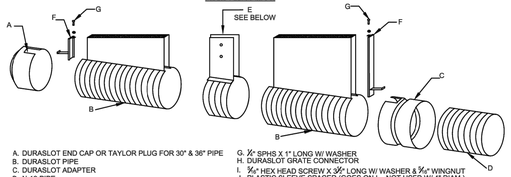
NOTE: ALL DIMENSIONS ARE FOR REFERENCE ONLY

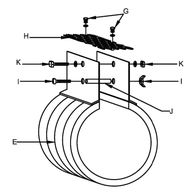
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REVISIONS:	
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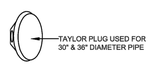
DURASLOT® VARIABLE ASSEMBLY

GRATED ASSEMBLY



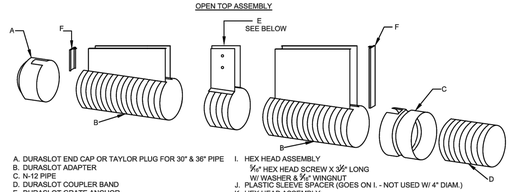


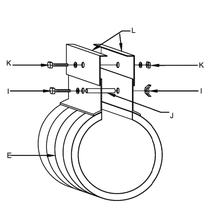
A. DURASLOT END CAP OR TAYLOR PLUG FOR 30" & 36" PIPE
B. DURASLOT PIPE
C. DURASLOT ADAPTER
D. N-12 PIPE
E. DURASLOT COUPLER BAND
F. DURASLOT GRATE ANCHOR
G. ⅞" SPHS X 1" LONG W/ WASHER
H. DURASLOT GRATE CONNECTOR
I. ⅜" HEX HEAD SCREW X 3½" LONG W/ WASHER & ⅜" WINGNUT
J. PLASTIC SLEEVE SPACER (GOES ON I. - NOT USED W/ 4" DIAM.)
K. HEX HEAD ASSEMBLY:
⅜" HEX HEAD SCREW X 3½" LONG
W/ (2) WASHERS AND ⅜" HEX NUT



NOTE: EACH CAP (A) & ADAPTER (C) COMES WITH AN ANCHOR (F)
EACH COUPLER BAND (E) COMES WITH HARDWARE - I,J,K, & L

OPEN TOP ASSEMBLY





A. DURASLOT END CAP OR TAYLOR PLUG FOR 30" & 36" PIPE
B. DURASLOT ADAPTER
C. N-12 PIPE
D. DURASLOT COUPLER BAND
E. DURASLOT GRATE ANCHOR
I. HEX HEAD ASSEMBLY
⅜" HEX HEAD SCREW X 3½" LONG
W/ WASHER & ⅜" WINGNUT
J. PLASTIC SLEEVE SPACER (GOES ON I. - NOT USED W/ 4" DIAM.)
K. HEX HEAD ASSEMBLY:
⅜" HEX HEAD SCREW X 3½" LONG
W/ (2) WASHERS AND ⅜" HEX NUT
L. DURASLOT BAND FLANGES

NOTE: EACH CAP (A) & ADAPTER (C) COMES WITH A CAP (F)
EACH COUPLER BAND (E) COMES WITH HARDWARE
(I,J,K, & L)

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REV.	DESCRIPTION	BY	MM/DD/YY	CHKD

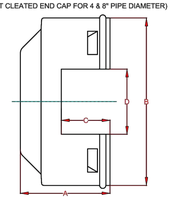
DRAWING NUMBER:

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

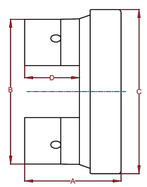
DESIGNED
DRAWN
CHECKED
DATE
SCALE: NTS
SHEET 1 OF 1

DURASLOT® END CAPS
4" - 36" DIAMETER

(ST CLEATED END CAP FOR 4 & 8" PIPE DIAMETER)



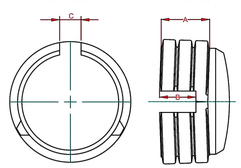
(SPIGOT END CAP FOR 6 & 10" PIPE DIAMETER)



2.5", 6" & VARIABLE SLOT RISER END CAP DIMENSIONS

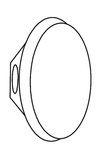
PIPE DIAM.	A	B	C	D	PRODUCT #
4" (100mm)	2.75" (70mm)	5.125" (130mm)	1.5" (38mm)	2" (50mm)	0433DS
6" (150mm)	4.5" (114mm)	6.95" (177mm)	7.63" (194mm)	3" (76mm)	0633DS
8" (200mm)	4.25" (108mm)	9.875" (249mm)	2.5" (64mm)	2.5" (64mm)	0833DS
10" (250mm)	5" (127mm)	11.56" (294mm)	12.13" (308mm)	3.5" (89mm)	1033DS
12" (300mm)	5.76" (146mm)	4.25" (108mm)	2.5" (64mm)	NA	1233DS
15" (375mm)	7.77" (197mm)	6.25" (159mm)	2.5" (64mm)	NA	1533DS
18" (450mm)	8.04" (204mm)	6.50" (165mm)	2.5" (64mm)	NA	1833DS
24" (600mm)	9.45" (240mm)	8" (200mm)	2.5" (64mm)	NA	2433DS
30" (750mm)	NA	NA	NA	NA	3033AA
36" (900mm)	NA	NA	NA	NA	3633AA

(SPLIT END CAP FOR 12" - 24" PIPE DIAMETER)



END VIEW TOP VIEW

(TAYLOR END PLUG FOR 30 & 36" PIPE DIAMETER)



NOTE: ALL FITTINGS DIMENSIONS ARE FOR REFERENCE ONLY

ADS ADVANCED DRAINAGE SYSTEMS, INC.

DRAWING #:	
DRAWN BY:	
APPROVED BY:	
REVISIONS:	
SCALE:	NTS

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TOWN OF PARKER,
DIRECTOR OF ENGINEERING/PUBLIC WORKS

DATE

EES SETTLEMENT AND ENGINEERING SOLUTIONS, INC.
3801 E. Florida Avenue, Suite 425
Denver, CO 80210
303-572-7997 www.ees.us.com

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CONSTRUCTION

Kum & Go

1459 Grand Ave
Des Moines, IA 50309
P: 888-458-6646

2293 - PARKER, COLORADO
BAYOU GULCH RD AND PINERY PKWY

CIVIL DETAILS

KG PROJECT TEAM: EES
RDM: RF
SDM: DG
CPM: BS

	DATE	REVISION DESCRIPTION
△		

REVISIONS

DATE: 07-12-2023

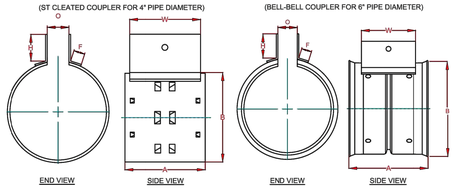
SHEET NUMBER:
C5.5
40 OF 43

P:\KUM & GO\CO, PARKER_2293 - PINERY AND BAYOU GULCH\08 CAD\CD\2293 - 29 - CIVIL DETAILS.DWG

CRITERIA PLAN 04/2020

DURASLOT® VARIABLE COUPLERS
4" - 36" DIAMETER

(ST CLEATED COUPLER FOR 4" PIPE DIAMETER)

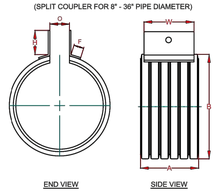


END VIEW SIDE VIEW

(BELL-BELL COUPLER FOR 6" PIPE DIAMETER)

END VIEW SIDE VIEW

(SPLIT COUPLER FOR 8" - 36" PIPE DIAMETER)



END VIEW SIDE VIEW

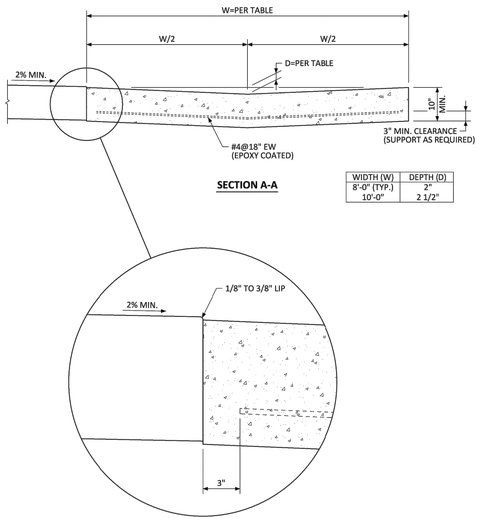
NOTE: ALL FITTINGS DIMENSIONS ARE FOR REFERENCE ONLY

VARIABLE SLOT RISER COUPLER BAND DIMENSIONS

PIPE DIAM.	H	O	F	W	A	B	PRODUCT #
4" (100mm)	VARIES	1.875" (48mm)	0.75" (19mm)	3.75" (95mm)	4" (100mm)	4.75" (120mm)	0491DS
6" (150mm)	VARIES	2.375" (60mm)	1" (25mm)	5" (127mm)	7.25" (184mm)	7.625" (194mm)	0691DS
8" (200mm)	VARIES	2.375" (60mm)	1" (25mm)	5" (127mm)	8" (152mm)	10" (254mm)	0891DS
10" (250mm)	VARIES	2.375" (60mm)	1" (25mm)	5" (127mm)	5.5" (140mm)	12.5" (318mm)	1091DS
12" (300mm)	VARIES	2.375" (60mm)	1" (25mm)	8" (203mm)	7.75" (197mm)	******	1291DS
15" (375mm)	VARIES	2.375" (60mm)	1" (25mm)	9" (229mm)	10.5 (267mm)	******	1591DS
18" (450mm)	VARIES	2.375" (60mm)	1" (25mm)	9" (229mm)	10.5 (267mm)	******	1891DS
24" (600mm)	VARIES	2.375" (60mm)	1" (25mm)	10" (254mm)	12.63" (321mm)	******	2491DS
30" (750mm)	VARIES	2.375" (60mm)	1" (25mm)	10" (254mm)	16.5" (419mm)	******	3091DS
36" (900mm)	VARIES	2.375" (60mm)	1" (25mm)	10" (254mm)	20.8" (528mm)	******	3691DS

ADS ADVANCED DRAINAGE SYSTEMS, INC.

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DRAWN BY:		
APPROVED BY:		
REVISIONS:		
SCALE:	NTS	



SECTION A-A

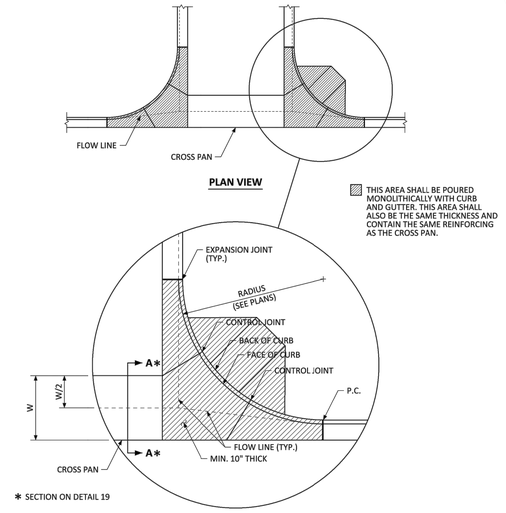
WIDTH (W)	DEPTH (D)
8'-0" (TYP.)	2"
10'-0"	2 1/2"

GENERAL NOTES

1. CONTRACTION JOINTS SHALL BE PROVIDED AT 10' MAXIMUM SPACING.

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

PARKER COLORADO | **INTERSECTION CROSS PAN LAYOUT STANDARD DETAIL** | DATE NOVEMBER 2020 | DETAIL 19 1 OF 2



PLAN VIEW

THIS AREA SHALL BE POURED MONOLITHICALLY WITH CURB AND GUTTER. THIS AREA SHALL ALSO BE THE SAME THICKNESS AND CONTAIN THE SAME REINFORCING AS THE CROSS PAN.

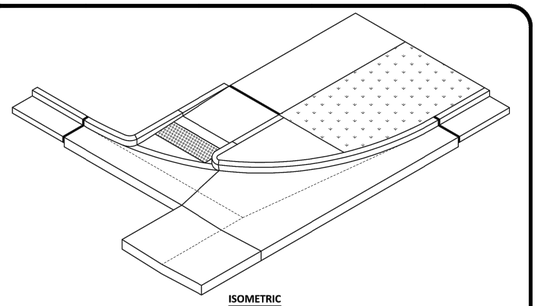
* SECTION ON DETAIL 19

GENERAL NOTES

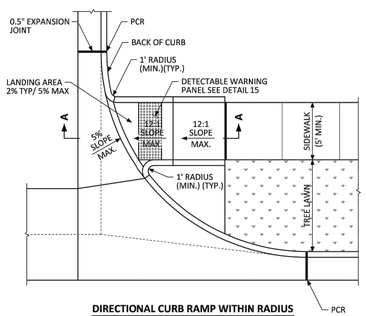
1. EXPANSION JOINTS SHALL BE SEALED IN ACCORDANCE WITH THE LATEST CDOT M&S STANDARD PLANS.
2. REINFORCING SHALL BE CONTINUOUS FROM CROSS PAN TO APRONS AND PLACED AS SHOWN IN STANDARD DETAIL 19.

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

PARKER COLORADO | **INTERSECTION CROSS PAN LAYOUT STANDARD DETAIL** | DATE NOVEMBER 2020 | DETAIL 19 2 OF 2



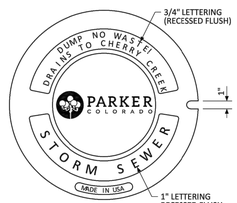
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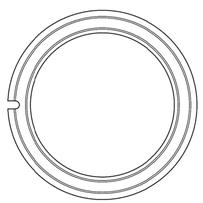
DIRECTIONAL CURB RAMP WITHIN RADIUS
(DETACHED SIDEWALK)

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

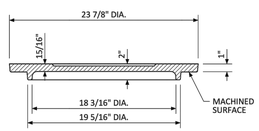
PARKER COLORADO | **DIRECTIONAL CURB RAMP WITHIN RADIUS LAYOUT STANDARD DETAIL** | DATE NOVEMBER 2020 | DETAIL 18 2 OF 2



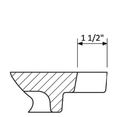
TOP OF COVER



COVER BOTTOM



SECTION



OPEN PICKHOLE DETAIL

GENERAL NOTES

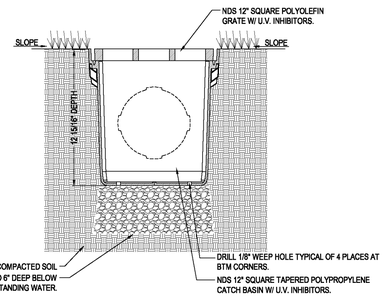
1. LOAD RATING - HEAVY DUTY.
2. COATING - UNDIPPED.
3. ESTIMATED WEIGHT - 112 LBS.
4. MATERIAL SPECIFICATION - GRAY IRON ASTM A48 CL35B.
5. FOR USE ON ALL PRIVATE AND PUBLIC STORM SEWER.

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

PARKER COLORADO | **MANHOLE COVER STANDARD DETAIL** | DATE NOVEMBER 2020 | DETAIL 33 1 OF 1

NDS®
We put water in its place

NDS, INC.
851 NORTH HARVARD AVE.
LINDSAY, CA 93247
TOLL FREE: 1-800-726-1994
PHONE: (559) 562-9888
FAX: (559) 562-4488
www.ndspro.com



SECTION

NOTES:
1. GRATE TO BE ATTACHED TO CATCH BASIN WITH SCREW PROVIDED AT TIME OF INSTALLATION.
2. RISER CAN BE CUT TO ACHIEVE EXACT ELEVATION.
3. DO NOT USE OVER 6 RISERS WITH CATCH BASIN.
4. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
5. DO NOT SCALE DRAWING.
6. THIS DRAWING IS INTENDED FOR USE BY ARCHITECTS, ENGINEERS, CONTRACTORS, CONSULTANTS AND DESIGN PROFESSIONALS FOR PLANNING PURPOSES ONLY.
7. ALL INFORMATION CONTAINED HEREIN WAS CURRENT AT THE TIME OF DEVELOPMENT BUT MUST BE REVIEWED AND APPROVED BY THE PRODUCT MANUFACTURER TO BE CONSIDERED ACCURATE.

SQUARE CATCH BASIN

12" SQUARE CATCH BASIN - TYPICAL INSTALLATION FOR LANDSCAPE APPLICATIONS

NDS KEY COMPONENT www.ndspro.com/ndsS

REVISION DATE 8-24-2015

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TOWN OF PARKER,
DIRECTOR OF ENGINEERING/PUBLIC WORKS

DATE

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3801 E. Florida Avenue, Suite 425
Denver, CO 80210
303-572-7397 www.ees.us.com

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Kum & Go

1459 Grand Ave
Des Moines, IA 50309
P: 888-458-6646

2293 - PARKER, COLORADO
BAYOU GULCH RD AND PINERY PKWY

CIVIL DETAILS

KG PROJECT TEAM: EES
RDM: RF
SDM: DG
CPM: BS

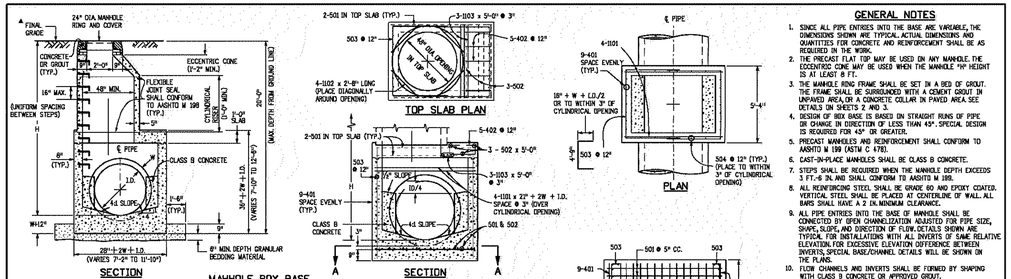
REVISIONS		
△	DATE	REVISION DESCRIPTION

DATE: 07-12-2023

SHEET NUMBER:
C5.6
41 OF 43

CRITERIA PLAN 04/2020

P:\KUM & GO\CO, PARKER_2293 - PINERY AND BAYOU GULCH\08 CAD\CIVIL\2293 - 30 - CIVIL DETAILS.DWG



MARK	SIZE	TYPE	WT./FT.	BARS	I.D. 54"	60"	66"	72"	84"	90"	FORMULAS
401	4	I	0.668	NO. REQ'D.	18	18	18	18	18	18	401
				LENGTH	8'-1"	8'-8"	9'-3"	9'-10"	11'-0"	12'-0"	BAR LENGTH = 32" + 2W + I.D.
				WEIGHT #	87.2	104.2	111.2	118.2	132.3	146.3	
402	4	III	0.688	NO. REQ'D.	5	5	5	5	5	5	402
				LENGTH	5'-6"	6'-0"	6'-7"	7'-2"	8'-4"	9'-0"	BAR LENGTH = I.D. + 2W
				WEIGHT #	18.1	20.0	22.0	23.8	27.8	31.7	
501	5	I	1.043	NO. REQ'D.	17	17	17	17	17	17	501
				LENGTH	8'-6"	9'-0"	9'-6"	10'-0"	10'-4"	11'-0"	BAR LENGTH = 24" + I.D. + 2W
				WEIGHT #	131.5	141.6	152.2	162.5	183.3	203.9	
502	5	I	1.043	NO. REQ'D.	22	23	25	26	28	32	502
				LENGTH	5'-0"	5'-0"	5'-0"	5'-0"	5'-0"	5'-0"	NUMBER BARS REQ'D. = 3 + $\left(\frac{244+I.D.+2W}{5"} H\right)$
				WEIGHT #	114.7	119.9	130.4	135.6	151.2	166.9	
503	5	II	1.043	NO. REQ'D.	18	18	18	18	23	24	503
				LENGTH	13'-10"	14'-6"	14'-7"	15'-9"	10'-10"	11'-3"	NUMBER BARS REQ'D. = 2 $\left(\frac{134+I.D.+2W}{5"} H\right)$ @ 5"
				WEIGHT #	214.2	223.8	362.6	273.8	328.5	423.5	BAR LENGTH = 4'-9"+I.D.+W+I.D./2
504	5	I	1.043	NO. REQ'D.	13	14	14	15	18	20	504
				LENGTH	9'-6"	9'-6"	9'-6"	9'-6"	9'-6"	9'-6"	NUMBER BARS REQ'D. = 2 $\left(\frac{294+I.D.+4}{12"} H\right)$ @ 12"
				WEIGHT #	101.2	120.6	130.1	164.1	206.5	253.5	BAR LENGTH = 32"+2W+I.D.
1101	11	I	5.313	NO. REQ'D.	4	4	4	4	4	4	1101
				LENGTH	7'-2"	7'-8"	8'-4"	8'-11"	10'-1"	11'-2"	BAR LENGTH = 21" + I.D. + 2W
				WEIGHT #	152.3	164.7	177.1	189.5	214.3	239.1	
1102	11	I	5.313	NO. REQ'D.	4	4	4	4	4	4	BENDING
				LENGTH	2'-8"	2'-8"	2'-8"	2'-8"	2'-8"	2'-8"	TYPE I STRAIGHT
				WEIGHT #	56.7	56.7	56.7	56.7	56.7	56.7	
1103	11	I	5.313	NO. REQ'D.	3	3	3	3	3	3	TYPE II 1'-0" 18"+W+I.D./2
				LENGTH	5'-0"	5'-0"	5'-0"	5'-0"	5'-0"	5'-0"	
				WEIGHT #	78.7	78.7	78.7	78.7	78.7	78.7	
* REINFORCING STEEL TOTAL					965.8	1,037.5	1,127.2	1,204.0	1,380.2	1,601.6	TYPE III 12" 12" 12" I.D.+2W-36"
CONCRETE - CUBIC YARDS - TOTAL					8.0	8.5	7.3	8.0	9.5	11.1	

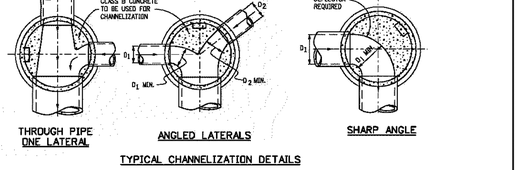
NOTES: QUANTITIES ARE BASED ON SAME SIZE PIPE ENTRANCE TO AND EXIT FROM BASE AND A 4 FT. MANHOLE ENTRANCE INTO TOP SLAB OF BASE.

QUANTITIES FOR CONCRETE MANHOLE BOX BASE

GENERAL NOTES

1. SINCE ALL PIPE ENTRIES INTO THE BASE ARE VARIABLE, THE DIMENSIONS SHOWN ARE TYPICAL. ACTUAL DIMENSIONS AND QUANTITIES FOR CONCRETE AND REINFORCEMENT SHALL BE AS REQUIRED IN THE WORK.
2. THE PRECAST FLAT TOP MAY BE USED ON ANY MANHOLE. THE ECCENTRIC CONE MAY BE USED WHEN THE MANHOLE 'H#' HEIGHT IS AT LEAST 8 FT.
3. THE MANHOLE RING FRAME SHALL BE SET IN A BED OF GROUT. THE FRAME SHALL BE SURROUNDED WITH A CEMENT GROUT IN UNPAVED AREA, OR A CONCRETE COLLAR IN PAVED AREA. SEE DETAILS ON SHEETS 2 AND 3.
4. DESIGN OF BOX BASE IS BASED ON STRAIGHT RUNS OF PIPE OR CHANGE IN DIRECTION OF LESS THAN 45°. SPECIAL DESIGN IS REQUIRED FOR 45° OR GREATER.
5. PRECAST MANHOLES AND REINFORCEMENT SHALL CONFORM TO AASHTO M 199 (ASTM C 478).
6. CAST-IN-PLACE MANHOLES SHALL BE CLASS B CONCRETE.
7. STEPS SHALL BE REQUIRED WHEN THE MANHOLE DEPTH EXCEEDS 3 FT.-6 IN. AND SHALL CONFORM TO AASHTO M 199.
8. ALL REINFORCING STEEL SHALL BE GRADE 60 AND EPOXY COATED. VERTICAL STEEL SHALL BE PLACED AT CENTERLINE OF WALL. ALL BARS SHALL HAVE A 2 IN. MINIMUM CLEARANCE.
9. ALL PIPE ENTRIES INTO THE BASE OF MANHOLE SHALL BE CONNECTED BY OPEN CHANNELIZATION ADJUSTED FOR PIPE SIZE, SHAPE, SLOPE, AND DIRECTION OF FLOW. DETAILS SHOWN ARE TYPICAL FOR INSTALLATIONS WITH ALL INVERTS OF SAME RELATIVE ELEVATION. FOR EXCESSIVE ELEVATION DIFFERENCE BETWEEN INVERTS, SPECIAL BASE/CHANNEL DETAILS WILL BE SHOWN ON THE PLANS.
10. FLOW CHANNELS AND INVERTS SHALL BE FORMED BY SHAPING WITH CLASS B CONCRETE OR APPROVED GROUT.
11. STUB-OUTS SHALL EXTEND 2 FT. MINIMUM BEYOND OUTSIDE WALL SURFACE OF MANHOLE AND BE SATISFACTORILY PLUGGED.
12. THE SLOPE OF THE MANHOLE COVER SHALL MATCH THE ROADWAY PROFILE IN THIS CROSS SECTION.

▲ WHEN FINAL GRADE IS PAVEMENT SURFACE, RECESS MANHOLE RING AND COVER ¼" MIN. TO ½" MAX.



TYPICAL CHANNELIZATION DETAILS

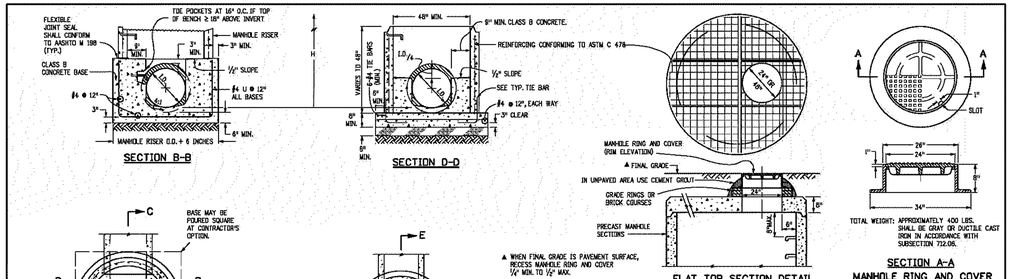
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MANHOLES

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STANDARD PLAN NO.
M-604-20
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Project Sheet Number:



LEGEND
- SUITABLE SUBGRADE
- GRANULAR BEDDING MATERIAL
- CONCRETE

PRECAST MANHOLE BASES NOTES:

1. THE BASE SLAB SHALL BE POURED MONOLITHICALLY WITH BOTTOM RISER SECTION.
2. PRECAST MANHOLE BASES SHALL FIT THE CONDITIONS AND LOCATIONS FOR WHICH THEY ARE INTENDED WITHOUT ANY FIELD MODIFICATIONS. ANY MANHOLE BASE WHICH REQUIRES FIELD CUTTING OR MODIFICATION IN ORDER TO FIT THE LOCATIONS INTENDED WILL BE REJECTED BY THE ENGINEER AND REMOVED AND REPLACED BY THE CONTRACTOR AT NO COST TO THE DEPARTMENT.
3. PRECAST MANHOLE BASES SHALL BE BEDDED ON AN APPROVED GRANULAR BEDDING MATERIAL AS SHOWN ABOVE.

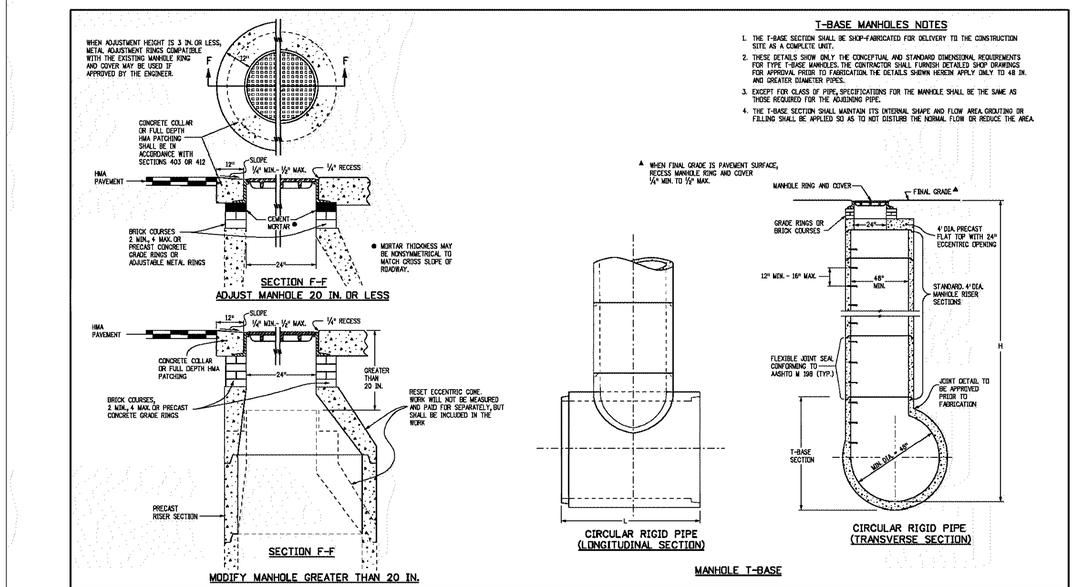
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MANHOLES

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MANHOLES

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TOWN OF PARKER, DIRECTOR OF ENGINEERING/PUBLIC WORKS

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2293 - PARKER, COLORADO
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CIVIL DETAILS

KG PROJECT TEAM: EES
RDM: RF
SDM: DG
CPM: BS

REVISIONS

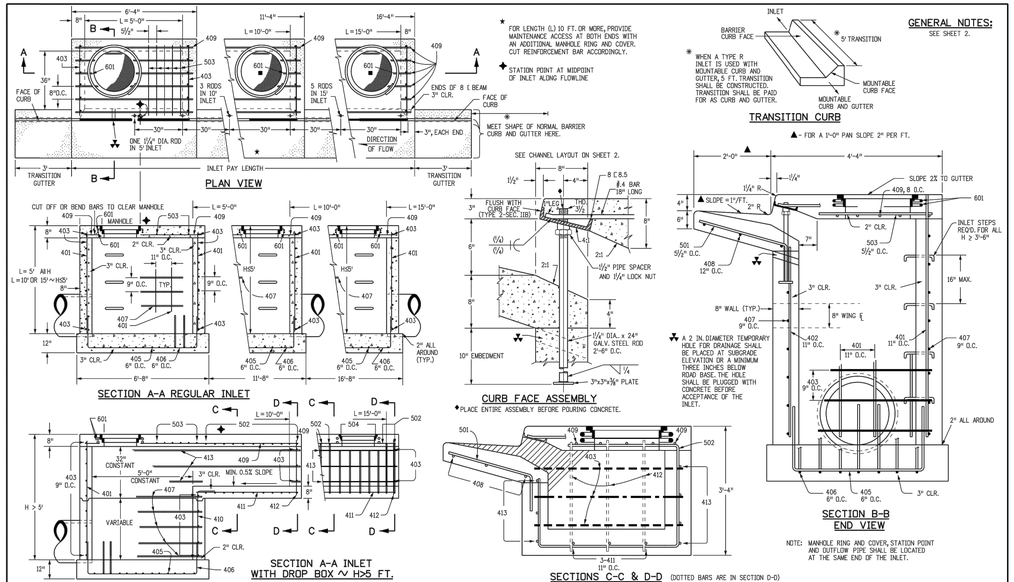
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DATE: 07-12-2023

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GENERAL NOTES:

SEE SHEET 2.

MARK	BAR # OR SIZE	O.C. SPACING	TYPE	ALL INLETS		INLETS: H ≤ 5 FT.				INLETS: H > 5 FT.			
				L = 5 FT.		L = 10 FT.		L = 15 FT.		L = 10 FT.		L = 15 FT.	
				NO. REQ'D.	LENGTH	NO. REQ'D.	LENGTH	NO. REQ'D.	LENGTH	NO. REQ'D.	LENGTH	NO. REQ'D.	LENGTH
401	4	11"	II	15	*	21	*	26	*	11	*	11	*
402	4	11"	II	13	*	18	*	23	*	7	*	7	*
403	4	9"	II	*	4'-0"	*	4'-0"	*	4'-0"	*	4'-0"	*	4'-0"
405	4	6"	VI	11	6'-10"	21	6'-10"	31	6'-10"	11	6'-10"	11	6'-10"
406	4	6"	VIII	7	8'-10"	7	13'-10"	7	18'-10"	7	8'-10"	7	8'-10"
407	4	9"	II	*	5'-10"	*	10'-10"	*	15'-10"	*	5'-10"	*	5'-10"
408	4	12"	II	3	6'-10"	3	11'-10"	3	16'-10"	3	11'-10"	3	16'-10"
409	4	8"	II	6	5'-10"	6	10'-10"	6	15'-10"	6	10'-10"	6	15'-10"
410	4	11"	VII							3	3	3	*
411	4	11"	II							3	5'-2"	3	10'-2"
412	4	11"	II							3	2'-9"	3	2'-9"
413	4	9"	II							7	10'-10"	7	15'-10"
501	5	5½"	IV	11	3'-4"	22	3'-4"	33	3'-4"	22	3'-4"	33	3'-4"
502	5	5½"	III							11	11'-5"	17	11'-5"
503	5	5½"	II	5	3'-6"	16	3'-6"	27	3'-6"	6	3'-6"	6	3'-6"
504	5	5½"	IX							5	8'-4"		
601	6	2½"	V	2	8'-10"	2	8'-10"	2	8'-10"	2	8'-10"	4	8'-10"
■ BE8.5				1	5'-10"	1	10'-10"	1	15'-10"	1	10'-10"	1	15'-10"
				2 BARS, 1 RODS		4 BARS, 3 RODS		8 BARS, 5 RODS		4 BARS, 3 RODS		8 BARS, 5 RODS	
						REGULAR INLETS				DROP BOX INLETS			

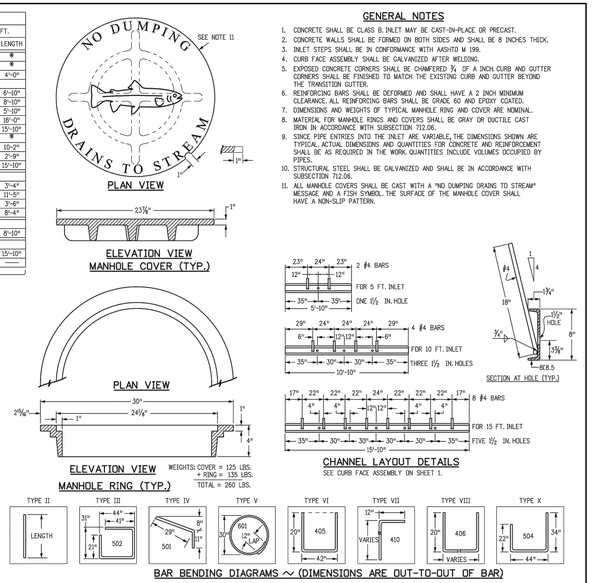
* VARIABLE REFER TO TABLE TWO.
■ INCLUDE #4,18 IN. BARS (SEE CHANNEL LAYOUT).

TABLE ONE ~ BAR LIST FOR CURB INLETS, TYPE "R"

"H"	LENGTH			NO. REQ'D. REGULAR		NO. REQ'D. DROP BOX		L = 5 FT.		L = 10 FT.		L = 15 FT.	
	401	402	410	403	407	403	407	CONC. CU. YDS.	STEEL LBS.	CONC. CU. YDS.	STEEL LBS.	CONC. CU. YDS.	STEEL LBS.
3'-0"	2'-8"	1'-8"		10	7			3.2	285	5.3	497	7.4	706
3'-6"	3'-2"	2'-2"		10	7			3.4	305	5.7	528	7.9	747
4'-0"	3'-8"	2'-8"		12	9			3.7	326	6.0	559	8.4	786
4'-6"	4'-2"	3'-2"		12	9			3.9	334	6.4	571	8.8	803
5'-0"	4'-8"	3'-8"		14	11			4.1	354	6.7	602	9.3	844
5'-6"	5'-2"	4'-2"	3'-5"	16	13	15	6	4.4	375	6.0	607	7.4	850
6'-0"	5'-8"	4'-8"	3'-11"	16	13	16	6	4.6	382	6.2	616	7.6	860
6'-6"	6'-2"	5'-2"	4'-5"	18	15	18	8	4.8	402	6.4	637	7.8	880
7'-0"	6'-8"	5'-8"	4'-11"	20	17	19	10	5.0	423	6.6	654	8.0	897
7'-6"	7'-2"	6'-2"	5'-4"	20	17	20	10	5.3	430	6.9	664	8.3	907
8'-0"	7'-8"	6'-8"	5'-11"	22	19	22	12	5.5	451	7.1	684	8.5	927
8'-6"	8'-2"	7'-2"	6'-5"	24	21	23	14	5.7	471	7.3	702	8.7	944
9'-0"	8'-8"	7'-8"	6'-11"	24	21	24	14	6.0	479	7.6	711	9.0	954
9'-6"	9'-2"	8'-2"	7'-5"	26	23	26	16	6.2	499	7.8	732	9.2	974
10'-0"	9'-8"	8'-8"	7'-11"	28	25	27	18	6.4	520	8.0	749	9.4	992
10'-6"	10'-2"	9'-2"	8'-5"	28	25	28	18	6.7	527	8.3	759	9.7	1001
11'-0"	10'-8"	9'-8"	8'-11"	30	27	30	20	6.9	547	8.5	779	9.9	1022

NOTES: FOR L = 5 FT., L = 10 FT., AND L = 15 FT.
REGULAR INLETS: TOTAL QUANTITIES NEEDED ARE OUTSIDE THE HEAVY BLACK LINE.
DROP BOX INLETS: TOTAL QUANTITIES NEEDED ARE INSIDE THE HEAVY BLACK LINE.
STEEL WEIGHTS DO NOT INCLUDE STRUCTURAL STEEL CHANNEL.

TABLE TWO ~ BARS AND QUANTITIES VARIABLE WITH "H"



GENERAL NOTES

1. CONCRETE SHALL BE CLASS B. INLET MAY BE CAST-IN-PLACE OR PRECAST.
2. CONCRETE WALLS SHALL BE FORMED ON BOTH SIDES AND SHALL BE 6 INCHES THICK.
3. INLET STEPS SHALL BE IN CONFORMANCE WITH AASHTO M 199.
4. CURB FACE ASSEMBLY SHALL BE GALVANIZED AFTER WELDING.
5. EXPOSED CONCRETE CORNERS SHALL BE CHAMFERED ¾" OF A 2 INCH CURB AND GUTTER CORNERS SHALL BE FINISHED TO MATCH THE EXISTING CURB AND GUTTER BEYOND THE TRANSITION GUTTER.
6. REINFORCING BARS SHALL BE DEFORMED AND SHALL HAVE A 2 INCH MINIMUM CLEARANCE, ALL REINFORCING BARS SHALL BE GRADE 60 AND EPOXY COATED.
7. DIMENSIONS AND WEIGHTS OF TYPICAL MANHOLE RING AND COVER ARE NOMINAL.
8. MATERIAL FOR MANHOLE RINGS AND COVERS SHALL BE GRAY OR DUCTILE CAST IRON IN ACCORDANCE WITH SUBSECTION 712.06.
9. SINCE PIPE ENTRIES INTO THE INLET ARE VARIABLE, THE DIMENSIONS SHOWN ARE TYPICAL. ACTUAL DIMENSIONS AND QUANTITIES FOR CONCRETE AND REINFORCEMENT SHALL BE AS REQUIRED IN THE WORK. QUANTITIES INCLUDE VOLUMES OCCUPIED BY PIPES.
10. STRUCTURAL STEEL SHALL BE GALVANIZED AND SHALL BE IN ACCORDANCE WITH SUBSECTION 712.06.
11. ALL MANHOLE COVERS SHALL BE CAST WITH A "NO DUMPING DRAINS TO STREAM" MESSAGE AND A FISH SYMBOL. THE SURFACE OF THE MANHOLE COVER SHALL HAVE A NON-SLIP PATTERN.



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CURB INLET TYPE R

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CURB INLET TYPE R

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