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TOWN OF GRAND LAKE, COLORADO GRAND LAKE STREETScape

PHASE 3 ISSUED FOR CONSTRUCTION GRAND COUNTY, COLORADO

JUNE 22, 2020

CONTACTS:

OWNER/DEVELOPER
 TOWN OF GRAND LAKE
 1026 PARK AVENUE
 GRAND LAKE, COLORADO 80447
 CONTACT: JOHN CRONE, TOWN MANAGER
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 PHONE: 1-(303)-297-5660

UTILITY CONTACTS:

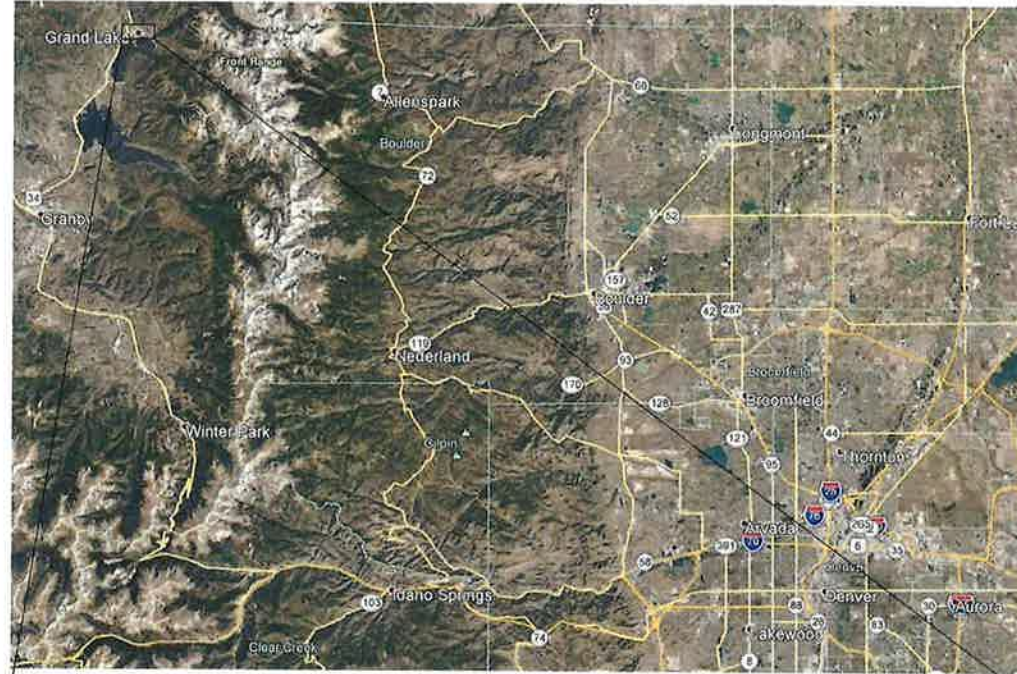
SEWER/SANITARY
 THREE LAKES WATER AND SANITATION DISTRICT
 1111 COUNTY ROAD 48
 GRAND LAKE, COLORADO 80447
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 TOWN OF GRAND LAKE WATER DEPARTMENT
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 GRAND LAKE, COLORADO 80447
 CONTACT: DAVE JOHNSON
 PHONE: 1-(970)-531-3309

ELECTRIC
 MOUNTAIN PARKS ELECTRIC
 321 W AGATE AVE
 GRANBY, COLORADO 80446
 CONTACT: KRISTEN WENINGER
 PHONE: 1-(970)-687-3378

NATURAL GAS
 XCEL ENERGY
 625 E AGATE AVE
 GRANBY, COLORADO 80446
 CONTACT: KATHLEEN JACOBY
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VICINITY MAP
 NO SCALE



SHEET LIST		
SHEET NUMBER	DRAWING NUMBER	SHEET TITLE
1	T-01	TITLE SHEET AND SHEET INDEX
2	GEN-01	GENERAL NOTES
3	TYP-01	TYPICAL SECTIONS
4	SAQ-01	SUMMARY OF APPROXIMATE QUANTITIES
5	GEM-01	GEOMETRIC LAYOUT
6-9	EXT-01 TO EXT-04	EXISTING CONDITIONS PLANS
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NOTE:
 REUSE OR MODIFICATION OF SAID DOCUMENTS, WITHOUT THE CONSULTANT'S PRIOR WRITTEN PERMISSION, SHALL BE AT CLIENT'S SOLE RISK, AND CLIENT AGREES TO INDEMNIFY AND HOLD CONSULTANT HARMLESS FROM ALL CLAIMS, DAMAGES, AND EXPENSES, INCLUDING ATTORNEY'S FEES, ARISING OUT OF SUCH REUSE OR MODIFICATION BY CLIENT OR BY OTHERS ACTING THROUGH CLIENT.



ANDREA LOWERY, P.E. #48373
 FOR AND ON BEHALF OF NV5, INC.

DATE



Know what's below.
 Call before you dig.
 CALL 2 BUSINESS DAYS IN ADVANCE BEFORE YOU DIG. CHASE OR ESCAVATE FOR THE MARKING OF UNDERGROUND UTILITIES.

NO.	BY	DATE	REVISIONS
1	A.L.	07/22/2020	ISSUED FOR CONSTRUCTION
2	A.L.	06/22/2020	ISSUED FOR CONSTRUCTION

GRAND LAKE STREETScape PHASE 3
TITLE SHEET AND SHEET INDEX
 PREPARED FOR: TOWN OF GRAND LAKE, CO DATE SUBMITTED: MAY 2019

NV5
 BEYOND ENGINEERING
 5445 MARK DABLING BLVD, SUITE 100 COLORADO SPRINGS, CO 80918
 719.268.8563 TEL 303.539.8840 FAX
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SHEET NUMBER	T-01
SCALE	VERTICAL: AS NOTED HORIZONTAL: AS NOTED
JOB NUMBER	223519-0000073

The engineer preparing these plans will not be responsible for or liable for, unauthorized changes to or uses of, and must be approved by the preparer of these plans.

GENERAL NOTES:

- UTILITY INFORMATION SHOWN IS PLOTTED FROM THE BEST AVAILABLE DATA. THE CONTRACTOR IS RESPONSIBLE FOR MAKING THEIR OWN DETERMINATION AS TO THE TYPE, SIZE, AND LOCATION OF UTILITIES THAT MAY BE NECESSARY TO AVOID DAMAGE THERETO, CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO AT 811 FOR UTILITY LOCATIONS A MINIMUM 48 HOURS PRIOR TO EXCAVATING. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY FOR ANY UTILITIES REQUIRING RELOCATION.
- ALL MATERIALS AND CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE PROJECT MANUAL AND LATEST EDITION OF RULES AND REGULATIONS. IF A CONFLICT SHALL ARISE THEN THE MOST STRINGENT REQUIREMENT SHALL APPLY. ALL CONSTRUCTION SHALL BE SUBJECT TO INSPECTION.
- CONTRACTOR SHALL SUBMIT A SCHEDULE TO THE TOWN A MINIMUM OF 5 WORKING DAYS PRIOR TO THE NOTICE TO PROCEED. AN UPDATED SCHEDULE SHALL BE SUBMITTED EVERY TWO WEEKS.
- CONTRACTOR SHALL OBTAIN PERMITS AS NECESSARY INCLUDING BUT NOT LIMITED TO THOSE LISTED IN THE SPECIFICATIONS. CONTRACTOR SHALL COORDINATE WITH THE TOWN TO REVIEW ALL PERMITS AND INCLUDE COSTS IN THE BID TO COMPLY WITH ALL PERMIT REQUIREMENTS. CONTRACTOR SHALL OBTAIN ALL PERMITS FOR STREET CUTS, UTILITY INTERFERENCES AND TRAFFIC CONTROL.
- CONTRACTOR AND SUBCONTRACTOR SHALL POSSESS A CURRENT LICENSE AND BE BONDED TO WORK WITHIN THE TOWN OF GRAND LAKE AND GRAND COUNTY.
- CONTRACTOR SHALL COMPLY WITH ALL PROVISIONS OF THE TOWN OF GRAND LAKE WHEN WORKING WITHIN RIGHTS-OF-WAY UNDER THEIR JURISDICTION PARTICULARLY PERTAINING TO PAVEMENT REPLACEMENT, TRAFFIC CONTROL AND TRAFFIC BARRIERS, IF APPLICABLE.
- 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". THESE REGULATIONS ARE DESCRIBED IN SUBPART P, PART 1926 OF THE CODE OF FEDERAL REGULATIONS. SHEETING AND SHORING SHALL BE UTILIZED WHERE NECESSARY TO PREVENT ANY EXCESSIVE WIDENING OR SLOUGHING OF THE TRENCH WHICH MAY BE DETRIMENTAL TO HUMAN SAFETY. TO THE PIPE BEING PLACED, TO TREES, OR TO ANY EXISTING STRUCTURE WHERE EXCAVATIONS ARE MADE UNDER SEVERE WATER CONDITIONS. THE CONTRACTOR MAY BE REQUIRED TO USE AN APPROVED PILING INSTEAD OF SHEETING AND SHORING.
- NO COLD MIX OR ASPHALT MILLINGS WILL BE ALLOWED FOR TEMPORARY PATCH MATERIAL; ONLY HOT MIX ASPHALT, UNIQUE PAVING MATERIAL (UPM), OR HIGH PERFORMANCE COLD MIX (HPM) TYPE PATCHING WILL BE ALLOWED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE PATCH IS PROPERLY MAINTAINED AND IN A SAFE CONDITION AT ALL TIMES.
- NIGHT AND WEEKEND WORK IS NOT ALLOWED WITHOUT PRIOR APPROVAL FROM THE TOWN.
- CONTRACTOR SHALL FOLLOW ALL APPLICABLE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION REQUIREMENTS FOR CONFINED SPACE ENTRY AS NECESSARY FOR THIS PROJECT.
- COMPACTION OF ALL TRENCHES MUST BE ATTAINED AND COMPACTION TEST RESULTS SUBMITTED TO THE ENGINEER PRIOR TO FINAL ACCEPTANCE.
- AN INDEPENDENT TESTING FIRM IS REQUIRED TO PERFORM AND PROVIDE CERTIFICATION FOR ALL REQUIRED MATERIAL SAMPLING AND TESTING AT THE COST OF THE CONTRACTOR. COPIES OF ALL TEST RESULTS SHALL BE FORWARDED TO THE ENGINEER AS SOON AS THEY BECOME AVAILABLE.
- THE CONTRACTOR SHALL HAVE ONSITE AT ALL TIMES ONE (1) SIGNED COPY OF PLANS AND THE PROJECT MANUAL.
- CONTRACTOR SHALL NOTIFY THE ENGINEER AND THE TOWN OF GRAND LAKE AT LEAST FORTY EIGHT (48) HOURS PRIOR TO THE START OF CONSTRUCTION. A PRE-CONSTRUCTION MEETING SHALL BE SCHEDULED WITH THE DISTRICT'S ENGINEERING INSPECTOR AT LEAST 72 HOURS PRIOR TO START OF WORK. THE CONTRACTOR SHALL NOTIFY THE CITY A MINIMUM OF 48 HOURS PRIOR TO TIC PRE-CONSTRUCTION CONFERENCE.
- THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTING AND MAINTAINING EROSION AND SEDIMENT CONTROL MEASURES AT ALL TIMES DURING CONSTRUCTION. THE PLAN MAY BE MODIFIED WITH APPROPRIATE APPROVALS FROM THE TOWN.
- ALL CONSTRUCTION ACTIVITIES MUST COMPLY WITH THE STATE OF COLORADO PERMITTING PROCESS FOR "STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY" AND ALL NPDES REGULATIONS. FOR INFORMATION, PLEASE CONTACT COLORADO DEPARTMENT OF HEALTH, WATER QUALITY CONTROL DIVISION, WQCD-PE-82, 4300 CHERRY DRIVE SOUTH, DENVER, COLORADO 80222-1530. ATTENTION: PERMITS AND ENFORCEMENT SECTION, PHONE (303) 692-3500. CURRENT REGULATIONS REQUIRE A PERMIT FOR DISTURBANCE OF ONE (1) ACRE OR MORE OF SOIL.
- 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 WATERS OF THE UNITED STATES. CONTRACTOR IS RESPONSIBLE FOR DETERMINING IF A STATE CONSTRUCTION DEWATERING DISCHARGE PERMIT.
- THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN TO CDOT FOR APPROVAL PRIOR TO OR WITH THE APPLICATION FOR THE PERMIT. THE TRAFFIC CONTROL PLAN SHALL INDICATE THE WORK ZONE, TEMPORARY TRAFFIC SIGNS, CHANNELIZING DEVICES, BARRICADES, AND PROPOSED WORKING HOURS.
- REPAIR OF ANY DAMAGE TO EXISTING IMPROVEMENTS OR LANDSCAPING IS THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE RESTORED TO ITS ORIGINAL CONDITION OR BETTER AT NO ADDITIONAL COST.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL DAMAGES AS THE RESULT OF CONSTRUCTION AND/OR CONSTRUCTION TRAFFIC. IN ADDITION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THESE STREETS ON A DAILY BASIS TO ASSURE THAT THEY ARE FREE OF CONSTRUCTION DEBRIS AND TRACKING FROM CONSTRUCTION TRAFFIC. THE COUNTY STORM WATER MANAGER MAY ISSUE A STOP WORK ORDER IF PROPER EROSION CONTROL MEASURES ARE NOT IMPLEMENTED OR MAINTAINED.
- CONTRACTOR SHALL REMOVE AND REPLACE ALL EXISTING FENCING DISTURBED BY CONSTRUCTION ACTIVITIES THROUGHOUT THE ENTIRE SITE, WHETHER OR NOT IDENTIFIED ON DRAWINGS. REPLACEMENT FENCING SHALL IDENTICALLY MATCH THE ORIGINAL FENCE. CONTRACTOR MUST TAKE ALL PRECAUTIONS NECESSARY WHEN WORKING AROUND EXISTING OVERHEAD ELECTRIC LINES TO PREVENT DAMAGE BY CONSTRUCTION CREW. SHOULD CONTRACTOR DAMAGE ELECTRIC FACILITIES, THEY MUST CONTACT THE UTILITY OWNER, WHO WILL REPAIR THE FACILITIES, WITH CONTRACTOR LIABLE FOR ALL ASSOCIATED COSTS.
- CONTRACTOR SHALL AT ALL TIMES TAKE PRECAUTIONS FOR PROTECTION OF EXISTING PUBLIC AND PRIVATE UTILITIES THAT MAY BE ENCOUNTERED DURING CONSTRUCTION, ANY DAMAGED INSTALLATIONS, PUBLIC OR PRIVATE, SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE TO ORIGINAL OR BETTER CONDITION.
- CONTRACTOR SHALL NOTIFY ALL THE ADJACENT RESIDENTS OF THE PROJECT WHICH SHALL INCLUDE THE CONTRACTOR AND DISTRICT CONTACT INFORMATION 72 HOURS PRIOR TO START OF CONSTRUCTION.
- CONTRACTOR SHALL NOTIFY ALL RESIDENTS IN WRITING AT LEAST 48 HOURS PRIOR TO ANY SHUT-OFF IN SERVICE. THE NOTICES MUST HAVE CONTRACTOR'S PHONE NUMBER AND NAME OF CONTACT PERSON, AND EMERGENCY PHONE NUMBER FOR AFTER HOUR CALLS. ALL SHUTOFFS MUST BE APPROVED BY THE CITY.
- ALL WORK, INCLUDING CORRECTION WORK, SHALL BE INSPECTED BY APPROPRIATE CITY OR DISTRICT REPRESENTATIVE WHO SHALL HAVE THE AUTHORITY TO HALT CONSTRUCTION WHEN STANDARD CONSTRUCTION PRACTICES ARE NOT BEING ADHERED TO.

GENERAL NOTES CONTINUED:

- THE CONTRACTOR SHALL WARRANT ALL WORK TO BE FREE FROM DEFECTS IN WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE-YEAR FROM THE DATE OF ACCEPTANCE INTO THE WARRANTY PERIOD OF ALL CONSTRUCTION CALLED FOR BY THE PROJECT DOCUMENTS AND IF APPLICABLE.
- CONTRACTOR SHALL REGULARLY PATROL THE PUBLIC LANDS ADJACENT TO THE DEVELOPMENT, REMOVE CONSTRUCTION DEBRIS AND KEEP THE JOB SITE CLEAN AND SAFE.
- UNLESS OTHERWISE SPECIFIED, WORK IS RESTRICTED TO THE HOURS OF 7:00 AM - 7:00PM.
- THE CONTRACTOR SHALL FURNISH THE DISTRICT WITH A SET OF RECORD PLANS PRIOR TO ENTERING INTO THE ONE-YEAR WARRANTY PERIOD. THESE PLANS SHALL SHOW LOCATION OF FITTINGS, PIPE SIZE, PIPE LENGTH, PIPE MATERIAL AND MANHOLES WITH INLET AND RIM ELEVATIONS.
- THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS AT AND ADJACENT TO THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK INCLUDING PEDESTRIANS AND VEHICLE TRAFFIC. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
- THE DUTY OF THE CITY/DISTRICT/ENGINEER TO CONDUCT CONSTRUCTION REVIEW OF THE CONTRACTOR'S PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES IN, ON OR NEAR THE CONSTRUCTION SITE.
- PROPERTY LINES SHOWN ON DRAWINGS ARE ONLY APPROXIMATE. CONTRACTOR SHALL VERIFY PROPERTY LINES AND ROW AND REMAIN WITHIN PUBLIC WAYS OR EASEMENTS FOR THE PROJECT.
- CONTRACTOR SHALL PERFORM BYPASS PUMPING AND MAINTAIN CONTINUOUS SEWER SERVICE TO ALL RESIDENTS DURING ALL REPAIRS, UNLESS OTHERWISE APPROVED BY THE CITY.

ROADWAY CONSTRUCTION NOTES:

- FOR PRELIMINARY PLAN QUANTITIES OF PAVEMENT MATERIALS, THE FOLLOWING RATES OF APPLICATION WERE USED:

HOT MIX ASPHALT PAVEMENT SX(75)(PG 58-34)	110 LBS./SQ. YD./INCH
AGGREGATE BASE COURSE (CLASS 6)	133 LBS./SQ. FT.
FMIJ SIFIED ASPHALT (CRS-2P)	0.10 GAL./SQ. YD.
EMULSIFIED ASPHALT (CSS-1) FOG SEAL	0.11 GAL./SQ. YD. (DIL.)
- A TACK COAT OF EMULSIFIED ASPHALT (MEDIUM-SETTING) IS TO BE APPLIED TO IMPROVE BOND AT THE FOLLOWING LOCATIONS:
 - BEFORE PLACING NEW PAVEMENT OVER EXISTING PAVEMENT
 - ALONG THE FACE OF ALL CURBS, GUTTERS, MANHOLES, ADJACENT EXISTING PAVEMENT, AND OTHER SURFACES AGAINST WHICH ASPHALT WILL BE PLACED
 - BETWEEN PAVEMENT COURSES WHEN ORDERED BY THE ENGINEER
- DILUTED EMULSIFIED ASPHALT FOR TACK COAT SHALL CONSIST OF 1 PART WATER AND 1 PART EMULSIFIED ASPHALT. RATES OF APPLICATION SHALL BE DETERMINED BY THE ENGINEER AT THE TIME OF APPLICATION.
- ANY LAYER OF HOT MIX ASPHALT PAVEMENT THAT IS TO HAVE A SUCCEEDING LAYER PLACED THEREON SHALL BE COMPLETED FULL WIDTH BEFORE SUCCEEDING LAYER IS PLACED.
- THE CONTRACTOR MAY USE AN EXPOSED LONGITUDINAL JOINT FOR A MAXIMUM OF ONE DAY. THE JOINT WILL CONSIST OF A VERTICAL FACE 1 INCH DEEP, AND AT THE BOTTOM OF A VERTICAL FACE, A 3:1 SLOPE TO THE EXISTING PAVEMENT (OR SUBGRADE). THE MAXIMUM DEPTH OF THE 3:1 SLOPE SHALL BE 2 INCHES. AT THE END OF ONE DAY, PLACEMENT OF THE HMA ON THE ADJACENT LANE IS REQUIRED.
- DEPTH OF MOISTURE-DENSITY CONTROL FOR THIS PROJECT SHALL BE AS FOLLOWS:
 - FULL DEPTH OF ALL EMBANKMENTS
 - THE MINIMUM THICKNESS OF TOPSOIL SHALL BE 4 INCHES.
- TYPE OF COMPACTION FOR THIS PROJECT WILL BE AASHTO T99. WATER USED FOR COMPACTION SHALL BE INCLUDED IN THE WORK AND SHALL NOT BE PAID FOR SEPARATELY.
- WATER SHALL BE USED AS A DUST PALLIATIVE WHERE REQUIRED. LOCATIONS SHALL BE AS DIRECTED BY THE ENGINEER AND SHALL BE INCLUDED IN THE WORK AND SHALL NOT BE PAID FOR SEPARATELY.
- ALL MATERIAL GENERATED WITHIN THE PROJECT LIMITS SHALL BE REMOVED FROM THE PROJECT SITE AT NO COST TO THE PROJECT UNLESS SPECIFIED BY THE PLANS.
- THE CONTRACTOR SHALL REPAIR OR REPLACE, AT THE CONTRACTOR'S EXPENSE, ANY EXISTING SIGNS DAMAGED BY THE CONTRACTOR.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN DRAINAGE DURING THE WORK. ANY REWORK OF MATERIALS DUE TO LACK OF THE MAINTENANCE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- REMOVAL OF TEMPORARY PAVEMENT MARKINGS SHALL BE INCLUDED IN THE WORK AND SHALL NOT BE PAID FOR SEPARATELY.
- TRAFFIC WILL USE THE PRESENT ROADWAY DURING CONSTRUCTION.
- THE CONTRACTOR SHALL PROTECT ANY NGS (NATIONAL GEODETIC SURVEY) BENCHMARKS LOCATED WITHIN PROJECT LIMITS. THE CONTRACTOR SHALL REPAIR OR REPLACE AT THE CONTRACTOR'S EXPENSE ANY NGS BENCHMARK DAMAGED BY THE CONTRACTOR.
- PRIOR TO PLACING BITUMINOUS PAVEMENT, SWEEPING OF DIRT AND GRAVEL FROM THE EXISTING MAT SHALL BE INCLUDED IN THE WORK AND SHALL NOT BE PAID FOR SEPARATELY.
- WHERE CUTTING OF ASPHALT PAVEMENT IS REQUIRED, THE CUTTING SHALL BE DONE TO A NEAT WORK LINE WITH A SAW OR CUTTING WHEEL, AS APPROVED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED SUBSIDIARY TO THE WORK.
- THE CONTRACTOR SHALL LIMIT CONSTRUCTION ACTIVITIES TO THOSE AREAS WITHIN THE LIMITS OF DISTURBANCE AND/OR TOES OF SLOPES SHOWN ON PLANS. ANY DISTURBANCE BEYOND THESE LIMITS SHALL BE RESTORED TO ORIGINAL CONDITION BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE. CONSTRUCTION ACTIVITIES IN ADDITION TO NORMAL CONSTRUCTION PROCEDURE SHALL INCLUDE THE PARKING OF VEHICLES OR EQUIPMENT, DISPOSAL OF LITTER, AND ANY OTHER ACTION WHICH WOULD ALTER EXISTING CONDITIONS.
- NO RIGHT-OF-WAY ACQUISITION WILL BE NEEDED FOR THIS PROJECT. ALL WORK SHALL BE COMPLETED ENTIRELY WITHIN THE EXISTING RIGHT-OF-WAY. THE BOUNDARY SHALL BE PHYSICALLY DELINEATED BY A PROFESSIONAL LAND SURVEYOR.
- ALL SURVEYING NECESSARY INCLUDING, BUT NOT LIMITED TO, TOPOGRAPHY AND BOUNDARY SURVEY SHALL BE CONDUCTED BY A PROFESSIONAL LAND SURVEYOR AND WILL BE CONSIDERED CONSTRUCTION SURVEYING WHICH SHALL BE PAID FOR AS LUMP SUM.
- THE CONTRACTOR SHALL PROTECT ALL EXISTING SURVEY MONUMENTATION DESIGNATED TO REMAIN FROM DAMAGE DURING CONSTRUCTION OPERATIONS. ANY MONUMENTS DISTURBED BY THE CONTRACTOR THAT ARE NOT DESIGNATED FOR RELOCATION SHALL BE RESET BY A PROFESSIONAL LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR AND ENGINEER SHALL NOTE THOSE MONUMENTS IN THE FIELD PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL PERFORM COMPACTION TESTING FOR THE EXISTING SUBGRADE FOR EVERY 1,000 LINEAL FEET OF ROADWAY WITH A MINIMUM OF 2 (TWO) TESTS PER ROADWAY. ANY AREAS WITH EXCESSIVE DEFLECTION SHALL BE SCARIFIED AND COMPACTED OR REPLACED. PROCTOR SAMPLING AND TESTING SHALL BE INCLUDED IN THE COST AND SHALL BE PAID FOR AS SUBGRADE COMPACTION TESTING.
- CONTRACTOR SHALL PROOFROLL THE SUBGRADE WITH A LOADED DUMP TRUCK UNDER THE OBSERVATION OF THE PROJECT ENGINEER OR TECHNICIAN. CONTRACTOR SHALL NOTIFY TOWN SO THAT THEY MAY BE PRESENT FOR THE PROOFROLL.

STORM DRAIN NOTES:

- NO AS-BUILT INFORMATION HAS BEEN PROVIDED FOR STORM DRAIN TIE-IN LOCATIONS. STORM DRAIN TIE-IN INFORMATION IS BASED ON FIELD SURVEY INVERT INFORMATION AT THE DOWNSTREAM MANHOLES. PROPOSED TIE-IN INVERT ELEVATIONS WERE DETERMINED USING THE DESIGNED PIPE SLOPE FROM THE PREVIOUS PHASE CONSTRUCTION DOCUMENTS "TOWN OF GRAND LAKE, CO - GRAND AVENUE STREETScape, ISSUED FOR CONSTRUCTION PHASE 1" DESIGNED BY DIAMONDBACK ENGINEERING & SURVEYING, INC. THIS PLAN DOES NOT GUARANTEE THE ACCURACY OF THE TIE-IN LOCATIONS; CONTRACTOR SHALL FIELD VERIFY TIE-IN LOCATIONS AND PIPE SIZES AND NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.

STORM DRAIN NOTES CONTINUED:

- CONTRACTOR SHALL VERIFY LOCATION OF EXISTING UNDERGROUND ELECTRIC AND GAS IN AREAS OF POTENTIAL CONFLICTS. NOTIFY ENGINEER OF ANY CONFLICTS AND POTENTIAL RELOCATION REQUIRED.
- ALL UTILITIES PROPOSED IN THE PHASE I AND II GRAND LAKE STREETScape CONSTRUCTION DOCUMENTS, PREPARED BY DIAMONDBACK ENGINEERING & SURVEYING, INC., INCLUDING, BUT NOT LIMITED TO, SANITARY FORCE MAIN, WATER MAIN, AND UNDERGROUND ELECTRICAL LINES ARE ASSUMED TO BE INSTALLED. CONTRACTOR SHALL FIELD VERIFY.
- AT PROPOSED UTILITY CROSSINGS, CONTRACTOR SHALL VERIFY THE REQUIRED GRADES AND CLEARANCES PRIOR TO START OF CONSTRUCTION. ANY REQUIRED CHANGES SHALL BE COORDINATED DIRECTLY WITH THE PROJECT ENGINEER.
- EXISTING PIPE LENGTHS ARE APPROXIMATE AND SHALL BE VERIFIED BY THE CONTRACTOR.
- UTILITY BURY DEPTH SHALL CONFORM TO TOWN STANDARD SPECIFICATIONS.
- PROPOSED STORM SEWER PIPE IS PUBLIC.
- ALL EXISTING UTILITIES TO REMAIN UNLESS OTHERWISE NOTED. CONTRACTOR TO PROTECT EXISTING UTILITIES IN PLACE AND PROTECT FROM DAMAGE.
- LENGTH OF PIPE IS MEASURED TO INSIDE EDGES OF STRUCTURE.
- ADDITIONAL ALIGNMENT INFORMATION FOR THE GRAND AVENUE HCL AND PARK AVENUE HCL CAN BE LOCATED ON GEM-01.
- ALL STORM SEWER MANHOLE AND INLET STATIONS AND OFFSETS PER ROADWAY CENTERLINE, ALL NORTHINGS AND EASTINGS FOR STORM SEWER MANHOLES AND INLETS ARE LOCATED AT THE CENTER OF STRUCTURE.
- ALL STORM SEWER MATERIALS AND CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE TOWN OF GRAND LAKE STANDARDS AND SPECIFICATIONS AND PROJECT SPECIFICATIONS.
- ALL STORM SEWER MANHOLES SHALL BE 4-FOOT DIAMETER UNLESS OTHERWISE NOTED.
- ALL INLETS ARE IN SUMP CONDITION UNLESS OTHERWISE NOTED.
- TYPE C INLETS, TYPE 13 INLETS, AND BOX BASE MANHOLES ARE PER CDOT STANDARDS AND SPECIFICATIONS, LATEST EDITION.

GENERAL NOTES FOR EROSION & SEDIMENT CONTROL:

- IT IS THE CONTRACTOR'S RESPONSIBILITY TO REMOVE ALL SEDIMENT, MUD, CONSTRUCTION DEBRIS, OR OTHER POTENTIAL POLLUTANTS THAT MAY HAVE BEEN DISCHARGED TO, OR ACCUMULATE IN, THE FLOWLINES, STORM DRAINAGE APPURTENANCES, AND PUBLIC RIGHTS OF WAYS AS A RESULT OF CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS CONSTRUCTION PROJECT. SAID REMOVAL SHALL BE CONDUCTED IN A TIMELY MANNER.
- ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED DUE TO UNFORESEEN PROBLEMS OF IF THE PLAN DOES NOT FUNCTION AS INTENDED.
- CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING DRAINAGE AND EROSION CONTROL FACILITIES CLEAN AS NECESSARY. STREETS SHALL BE KEPT FREE OF DEBRIS CAUSED BY TRAFFIC ENTERING/EXITING THE SITE.
- ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE PAVED, SEEDED WITH NATIVE VEGETATION, OR LANDSCAPED. REFER TO LANDSCAPE PLANS FOR PERMANENT SEED MIX AND PLANTING SPECIFICATIONS.
- THE EROSION CONTROL PLANS SHALL ONLY BE USED FOR INSTALLATION OF EROSION CONTROL MEASURES. DO NOT USE THE EROSION CONTROL PLANS FOR GRADING OR STORM DRAIN CONSTRUCTION.
- CONTRACTOR SHALL PREVENT SEDIMENT, DEBRIS AND ALL OTHER POLLUTANTS FROM ENTERING THE STORM SEWER SYSTEM DURING ALL EXCAVATION, TRENCHING, OR OTHER CONSTRUCTION OPERATIONS THAT ARE PART OF THIS PROJECT.
- THE CONTRACTOR SHALL ENSURE THAT ALL LOADS OF CUT AND FILL MATERIAL IMPORTED TO, OR EXPORTED FROM, THIS SITE SHALL BE PROPERLY COVERED TO PREVENT LOSS OF THE MATERIAL DURING TRANSPORT ON PUBLIC RIGHTS OF WAY.
- THE USE OF REBAR TO ANCHOR BEST MANAGEMENT PRACTICES IS PROHIBITED.
- APPROVED EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES SHALL BE MAINTAINED AND KEPT IN GOOD REPAIR FOR THE DURATION OF THIS PROJECT.
- THE CONTRACTOR SHALL PROTECT ALL STORM SEWER FACILITIES ADJACENT TO ANY LOCATION WHERE WORK IS OCCURRING.
- PAVED ROADWAYS WHICH ARE ADJACENT TO CONSTRUCTION SITES MUST BE SWEEP AS NEEDED WHEN SEDIMENT AND OTHER MATERIALS ARE TRACKED OR DISCHARGED ONTO THEM.
- CONTRACTOR SHALL IMPLEMENT VEHICLE TRACKING CONTROL THROUGHOUT THE PROJECT AND LOCATE VTC MEASURES AS NEEDED TO BEST ACCOMMODATE EACH PORTION OF THE PROJECT.
- SEEDING AND MULCHING SHALL OCCUR WITHIN 14 DAYS OF THE COMPLETION OF OVERLOP GRADING OR WITHIN 14 DAYS ON AREAS THAT ARE TO BE LEFT UNDISTURBED FOR A PERIOD OF 60 DAYS OR MORE.
- PERMANENT OR TEMPORARY SOIL STABILIZATION MEASURES SHALL BE APPLIED TO ALL DISTURBED AREAS AND SOIL STOCKPILES WITHIN 30 DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. SOIL STABILIZATION MEASURES SHALL BE APPLIED WITHIN 30 DAYS TO DISTURBED AREA WHICH MAY NOT BE AT FINAL GRADE, BUT WILL BE LEFT DORMANT FOR LONGER THAN 60 DAYS.
- EROSION CONTROL BLANKET SHALL BE INSTALLED ON ALL SLOPES STEEPER THAN 4:1.
- CONTRACTOR TO REFER TO CDOT EROSION CONTROL NOTES AND DETAILS PROVIDED ON DET-04 TO DET-06.
- CONTRACTOR SHALL MAINTAIN WATER TANK ON SITE AT ALL TIMES AND USE AS NECESSARY TO CONTROL DUST IN THE AIR.

CONSTRUCTION TRAFFIC CONTROL NOTES:

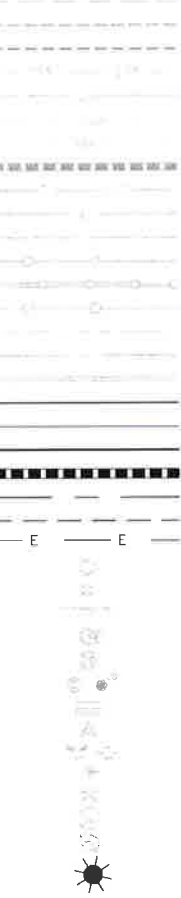
- THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN, PREPARED BY A CERTIFIED TRAFFIC CONTROL SUPERVISOR, TO THE TOWN OF GRAND LAKE FOR APPROVAL PRIOR TO START OF CONSTRUCTION.
- THE CONTRACTOR WILL NOT BE ALLOWED TO UTILIZE A LANE CLOSURE OR ROAD CLOSURE WITHOUT WRITTEN CONSENT BY THE TOWN OF GRAND LAKE.
- THE CONTRACTOR SHALL MAINTAIN A COPY OF THE APPROVED TRAFFIC CONTROL PLANS ON SITE AT ALL TIMES.
- THE APPROVED TRAFFIC CONTROL SHALL BE MAINTAINED AND INSPECTED DAILY BY THE CONTRACTOR'S TRAFFIC CONTROL SUPERVISOR.
- THE CONTRACTOR'S TRAFFIC CONTROL SUPERVISOR SHALL PROVIDE A TRAFFIC CONTROL SUPERVISOR LOG TO THE TOWN OF GRAND LAKE EACH DAY THEY ARE PRESENT ON SITE.
- THE CONTRACTOR SHALL ABIDE BY ALL LOCAL, COUNTY, STATE, AND FEDERAL TRAFFIC SAFETY GUIDELINES INCLUDING, BUT NOT LIMITED TO, THE TOWN OF GRAND LAKE, GRAND COUNTY, CDOT, AND MUTCD (MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES).
- THE CONTRACTOR'S TRAFFIC CONTROL PLAN SHALL ADHERE TO CDOT STANDARD PLAN S-530-01 (SHEET NO. 1 OF 24) (GENERAL NOTES). "MUTCD 2005 EDITION - CHAPTER 6H: TYPICAL APPLICATIONS" PROVIDED FOR INFORMATION ONLY. THE CONTRACTOR'S TRAFFIC CONTROL PLAN SHALL MEET OR EXCEED TYPICAL APPLICATIONS AS APPROPRIATE. THE TYPICAL APPLICATIONS LISTED BELOW ARE POTENTIALLY NECESSARY. THE CONTRACTOR'S TRAFFIC CONTROL SUPERVISOR SHALL MAKE THE FINAL DETERMINATION ON WHICH TYPICAL APPLICATIONS APPLY.

MUTCD FIGURE	MUTCD TYPICAL APPLICATIONS
6H-10	LANE CLOSURE ON TWO-LANE ROAD USING FLAGGERS (TA-10)
6H-11	LANE CLOSURE ON TWO-LANE ROAD WITH LOW TRAFFIC VOLUMES (TA-11)
6H-13	TEMPORARY ROAD CLOSURE (TA-13)
6H-15	WORK IN CENTER OF ROAD WITH LOW TRAFFIC VOLUMES (TA-15)
6H-18	LANE CLOSURE ON MINOR STREET (TA-18)

STREET LIGHTING GENERAL NOTES:

- ELECTRICAL DESIGN FOR STREET LIGHTING IS NOT INCLUDED IN THE SCOPE OF THIS PROJECT, ELECTRICAL DESIGN TO BE DONE BY OTHERS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE FOOTING AND INSTALLATION OF THE LIGHT POLES AND LUMINAIRES. STREET LIGHTS SHALL MATCH THOSE INSTALLED ON GRAND AVE.
- CONTRACTOR TO COORDINATE ELECTRICAL SUPPLY SOURCE WITH TOWN.
- PROPOSED LIGHT POLES TO BE CONNECTED BY 2" ELECTRICAL CONDUIT, UNLESS OTHERWISE NOTED.

LEGEND



ABBREVIATIONS

ABBREVIATION	DESCRIPTION
APPROX	APPROXIMATE
BOW	BOTTOM OF WALL
BAW	BACK OF WALK
C&G	CURB AND GUTTER
CF	CUBIC FEET
CL	CENTERLINE
CO	CLEAN OUT
CY	CUBIC YARDS
EG	EXISTING GRADE
EL	ELEVATION
FG	FINISHED GRADE
FL	FLOWLINE
E	EAST
EOC/EC	EDGE OF CONCRETE
EOI/EP	EDGE OF PAVEMENT
EX	EXISTING
HCL	HORIZONTAL CONTROL LINE
HGL	HORIZONTAL GRADE LINE
H.P.	HIGH POINT
LF	LINEAR FEET
LG	LIP OF GUTTER
L.P.	LOW POINT
M.E	MATCH EXISTING
MH	MANHOLE
N	NORTH
OHE	OVERHEAD ELECTRIC
PGL	PROFILE GRADE LINE
PL	PROPERTY LINE
P&P	PLAN AND PROFILE
PR	PROPOSED
ROW	RIGHT OF WAY
SD	STORM DRAIN
SF	SQUARE FEET
SS	SANITARY SEWER
SY	SQUARE YARDS
TC	TOP OF CURB/TOP OF TIMBER CURB
TBC	TOP BACK OF CURB
TOC	TOP OF CONCRETE
TOE	TOE OF SLOPE/WALL
TOW	TOP OF WALL
TYE	TYPICAL
UGE	UNDERGROUND ELECTRIC
W	WITH

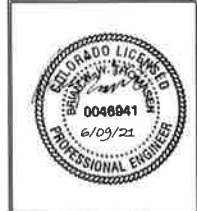


CALL 8 BUSINESS DAYS IN ADVANCE BEFORE YOU DIG. GRADE OR EXCAVATE FOR THE MARKING OF UNDERGROUND UTILITIES.

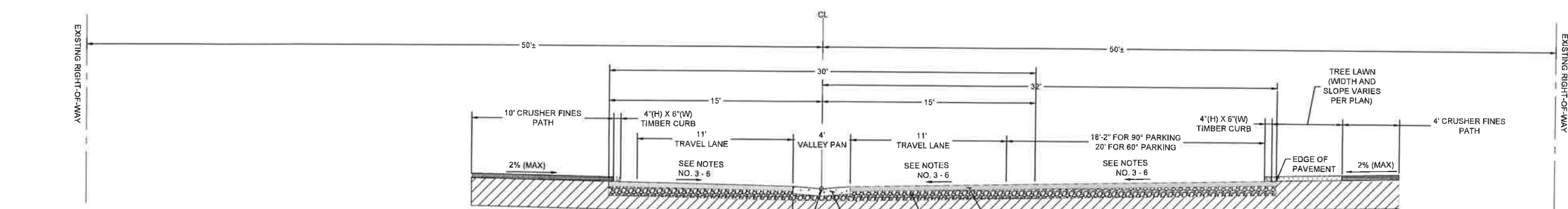
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2	ALL	02/27/2020	ISSUED FOR CONSTRUCTION	

GRAND LAKE STREETScape PHASE 3
GENERAL NOTES
 PREPARED FOR: TOWN OF GRAND LAKE, CO
 DATE SUBMITTED: MAY 2019
 WWW.NVS.COM

NVS
 BEYOND ENGINEERING
 5445 MARK DABLING BLVD., SUITE 100 COLORADO SPRINGS, CO 80918
 719.268.8563 TEL 303.539.9840 FAX

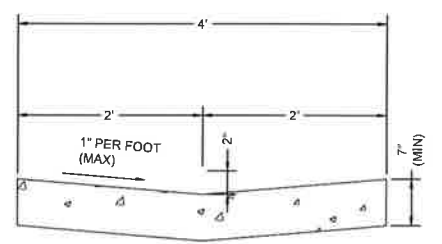


SHEET NUMBER	GEN-01
SCALE	VERTICAL: AS NOTED HORIZONTAL: AS NOTED
JOB NUMBER	223519-0000073



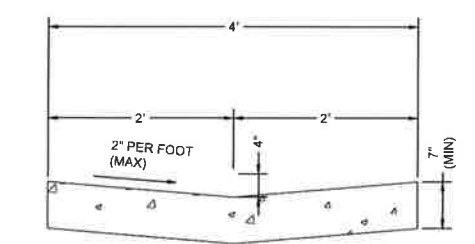
PARK AVE TYPICAL SECTION
NOT TO SCALE

- NOTES:
1. TYPICAL SECTION SHALL BE APPLIED TO BOTH RIGHT AND LEFT SIDES OF ROAD AS NEEDED PER PLANS. CRUSHER FINES PATH IS 4' WIDE ON NORTH SIDE AND 10' WIDE ON SOUTH SIDE OF PARK AVE.
 2. TREE LAWN WIDTH VARIES ON NORTH SIDE OF PARK AVENUE. REFER TO PLANS AND MEANDERING CRUSHER FINES PATH DETAIL THIS SHEET.
 3. TYPICAL ROADWAY CROSS SLOPE IS 2.0%, EXCEPT AS NOTED BELOW.
 4. STA. 2+25.00 TO STA. 2+50.00, ROADWAY CROSS SLOPE IS 2.6%.
 5. STA. 11+22.07 TO STA. 13+25.00, ROADWAY CROSS SLOPE IS 3.5% LEFT AND 2.0% RIGHT.
 6. EDGE OF PAVEMENT (EOP) LABELS SHOWN ON THE PLANS AND PROFILES SHEETS ARE FOR THE EOP AND DO NOT INCLUDE THE 4 INCHES OF GRADE OVER THE PAVEMENT.
 7. THE CONTRACTOR SHALL MATCH EXISTING GRADES ON ALL CUT AND FILL SLOPES. SLOPES SHALL NOT EXCEED A MAXIMUM SLOPE OF 3:1 UNLESS OTHERWISE NOTED ON THE PLANS.
 8. THE TOPSOIL SHALL BE PLACED AT A MINIMUM DEPTH OF 4 INCHES. ALL PROPOSED PAVEMENT (ASPHALT AND CONCRETE) SHALL MEET THE THICKNESS AND SECTION REQUIREMENTS OF THE GEOTECHNICAL REPORT.

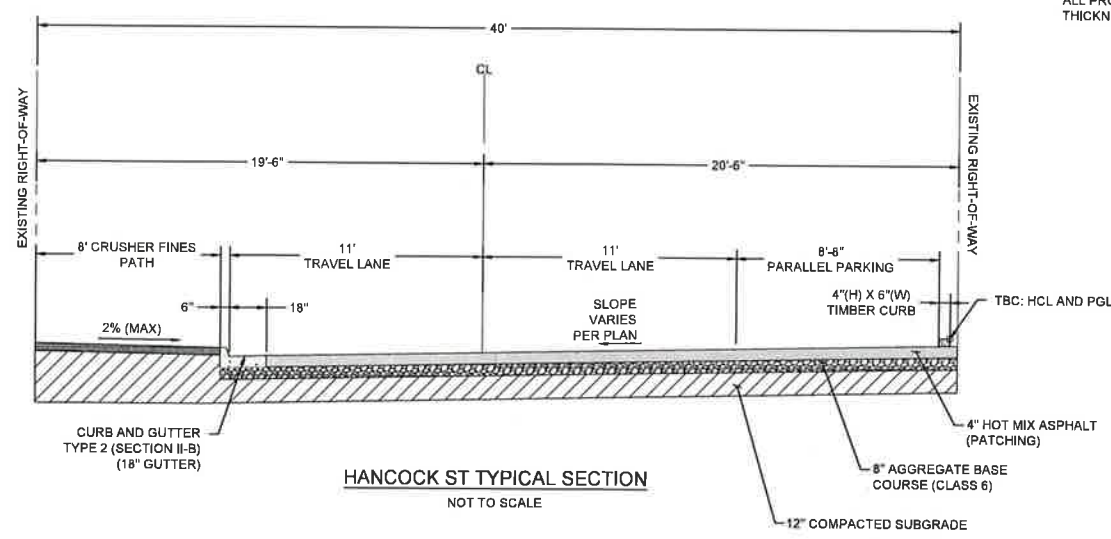


4' CONCRETE VALLEY PAN (PARK AVE) DETAIL
NOT TO SCALE

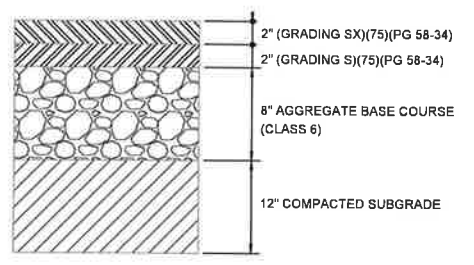
NOTES:
CONCRETE VALLEY PAN SHALL CONFORM TO CDOT STANDARD PLAN M-608-1, "GUTTER TYPE 2".



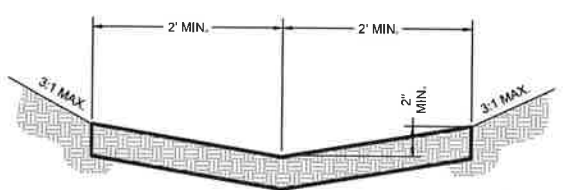
4' CONCRETE VALLEY PAN (SWC PARK AVE & GARFIELD ST) DETAIL
NOT TO SCALE



HANCOCK ST TYPICAL SECTION
NOT TO SCALE

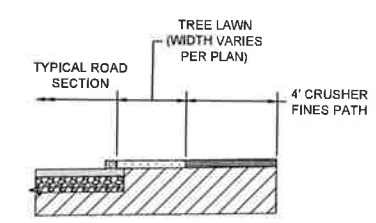


4" HOT MIX ASPHALT W/ 8" ABC (CLASS 6) AND HOT MIX ASPHALT DETAIL
NOT TO SCALE



DRAINAGE SWALE DETAIL
NOT TO SCALE

NOTES:
CONTRACTOR SHALL FIELD VERIFY ALL DRIVEWAY LOCATION AND TERMINATE SWALE SECTION AT ALL CONCRETE OR ASPHALT CROSSINGS. CONTRACTOR SHALL FIELD ADJUST SWALE SECTION AT ALL UTILITY VALVE AND METER BOXES. SWALE SECTIONS SHALL BE CONSTRUCTED TO SUIT ALL POTENTIAL CROSSING VEHICLES.



MEANDERING CRUSHER FINES PATH DETAIL
NOT TO SCALE

NO.	REV.	DATE	DESCRIPTION
1	AS	02/20/2020	ISSUED FOR BID
2	AL	07/22/2020	ISSUED FOR CONSTRUCTION
3	AL	07/22/2020	ISSUED FOR CONSTRUCTION

GRAND LAKE STREETScape PHASE 3
TYPICAL SECTIONS

PREPARED FOR: TOWN OF GRAND LAKE, CO DATE SUBMITTED: MAY 2019

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SHEET NUMBER
TYP-01
SCALE
VERTICAL: AS NOTED
HORIZONTAL: AS NOTED
JOB NUMBER
223519-0000073



DATE: 6/22/20 TIME: 1:23 PM DRAWING NAME: 04_SAQ.DWG
 SERVER: DIV-FILE DESIGNER: EDC PROJ MGR: BMMT PLOTTED BY: N/A
 PATH: N:\223519-0000073\CADD\CIVIL

CONTRACT ITEM NO.	CONTRACT ITEM	UNIT	PARK AVENUE HCL - PHASE 1		PARK AVENUE HCL - PHASE 2		PROJECT TOTALS	
			PLAN	AS. CONST.	PLAN	AS. CONST.	PLAN	AS. CONST.
1	CLEARING AND GRUBBING	LS	0.5		0.5		1	
2	REMOVAL OF TREE	EA	16		9		25	
3	REMOVAL OF STRUCTURE	EA	0		8		8	
4	REMOVAL OF CURB AND GUTTER	LF	123		0		123	
5	REMOVAL OF PAVERS	SY	0		5		5	
6	RESET BRICK PAVERS	SY	0		6		6	
7	REMOVAL OF CONCRETE PAVEMENT	SY	163		14		177	
8	REMOVAL OF ASPHALT MAT	SY	1697		9864		11561	
9	UNCLASSIFIED EXCAVATION (COMPLETE-IN-PLACE)	CY	4900		4600		9500	
10	STOCKPILE TOPSOIL	CY	387		277		665	
11	SUBGRADE SOIL PREPARATION	SY	7049		8496		15545	
12	EROSION LOG (12 INCH)	LF	1115		1091		2206	
13	SILT FENCE	LF	755		420		1175	
14	INLET PROTECTION (AGGREGATE BAG)	EA	8		6		14	
15	CONCRETE WASHOUT STRUCTURE	EA	1		1		2	
16	VEHICLE TRACKING PAD	EA	1		1		2	
17	RESET GROUND SIGN	EA	1		6		7	
18	RESET FENCE	LF	0		35		35	
19	ADJUST STRUCTURE (CLEAN OUT)	EA	1		2		3	
20	ADJUST MANHOLE	EA	4		4		8	
21	MODIFY INLET	EA	2		1		3	
22	ADJUST VALVE BOX	EA	4		10		14	
23	SEEDING (NATIVE)	AC	0.69		0.54		1.23	
24	SOIL RETENTION BLANKET (STRAW-COCOONUT)	SY	509		275		784	
25	AGGREGATE BASE COURSE (CLASS 6)(8 INCH)	TON	2813		3390		6202	
26	CRUSHER FINES PATH (6 INCH)	SY	636		929		1565	
27	HOT MIX ASPHALT (GRADING SX)(75)(PG 58-34)(4 INCH)	SY	7049		8496		15545	
28	CONCRETE PAVEMENT (6 INCH)	SY	24		32		56	
29	RETAINING WALL (DRY-STACK BOULDER)	FF	730		0		730	
30	8" HDPE STORM PIPE	LF	53		0		53	
31	15" HDPE STORM PIPE	LF	175		240		424	
32	18" HDPE STORM PIPE	LF	562		368		930	
33	18" HDPE END CAP	EA	1		0		1	
34	24" HDPE STORM PIPE	LF	186		0		186	
35	INLET TYPE C	EA	1		2		3	
36	INLET TYPE 13 (VALLEY)	EA	3		3		6	
37	NYLOPLAST DRAIN BASIN (12 INCH)	EA	1		0		1	
38	4' DIAMETER MANHOLE (SLAB BASE)	EA	1		0		1	
39	CURB AND GUTTER TYPE 2 (SECTION I-B)	LF	54		0		54	
40	CURB AND GUTTER TYPE 2 (SECTION II-B)	LF	53		92		144	
41	CONCRETE CURB RAMP	SY	81		73		164	
42	DETECTABLE WARNINGS	SF	219		137		356	
43	CONCRETE VALLEY PAN (7 INCH)	SF	4649		3321		7970	
44	TIMBER CURB (4"x8")(INCLUDES SAWING, SECUREMENT, AND HARDWARE)	LF	1400		1433		2833	
45	STREET LIGHT POLES	EA	10		7		17	
46	2 INCH ELECTRICAL CONDUIT	LF	1018		513		1531	
47	4 INCH ELECTRICAL CONDUIT	LF	0		111		111	
48	IRRIGATION SYSTEM	LS	0.5		0.5		1	
49	CONSTRUCTION SURVEYING	LS	0.5		0.5		1	
50	MOBILIZATION	LS	0.5		0.5		1	
51	PAVEMENT MARKING PAINT	LS	0.5		0.5		1	
52	SIGN PANEL (CLASS I)	SF	15		10.5		25.5	
53	STEEL SIGN POST (U-2)	LF	90		50		140	
54	ADJUST MONUMENT BOX	EA	1		2		3	
55	TRAFFIC CONTROL	LS	0.5		0.5		1	
BID ALT. NO. 1								
56	HOT MIX ASPHALT (GRADING SX)(75)(PG 58-34)(4 INCH) (CREDIT)	SY	7049		8496		15545	
57	COVER COAT MATERIAL (TYPE I)	SY	7049		8496		15545	
58	COVER COAT MATERIAL (TYPE II)	SY	7049		8496		15545	
59	EMULSIFIED ASPHALT (CRS-2P)	GAL	1410		1699		3109	
60	EMULSIFIED ASPHALT (CRS-1)(FOG SEAL)	GAL	775		935		1710	



Know what's below.
 Call before you dig.
 CALL 7 BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE
 OR EXCAVATE FOR THE MARKING OF UNDERGROUND UTILITIES.

REV	DATE	BY	DESCRIPTION
1	06/22/20	AJ	ISSUED FOR CONSTRUCTION
2	06/22/20	AJ	ISSUED FOR CONSTRUCTION

GRAND LAKE STREETSCAPE PHASE 3
 SUMMARY OF APPROXIMATE QUANTITIES

PREPARED FOR: TOWN OF GRAND LAKE, CO DATE SUBMITTED: MAY 2019

N|V|S
 BEYOND ENGINEERING

5445 MARK DABLING BLVD, SUITE 100 COLORADO SPRINGS, CO 80918
 719.268.6963 TEL 303.539.8640 FAX WWW.NVS.COM

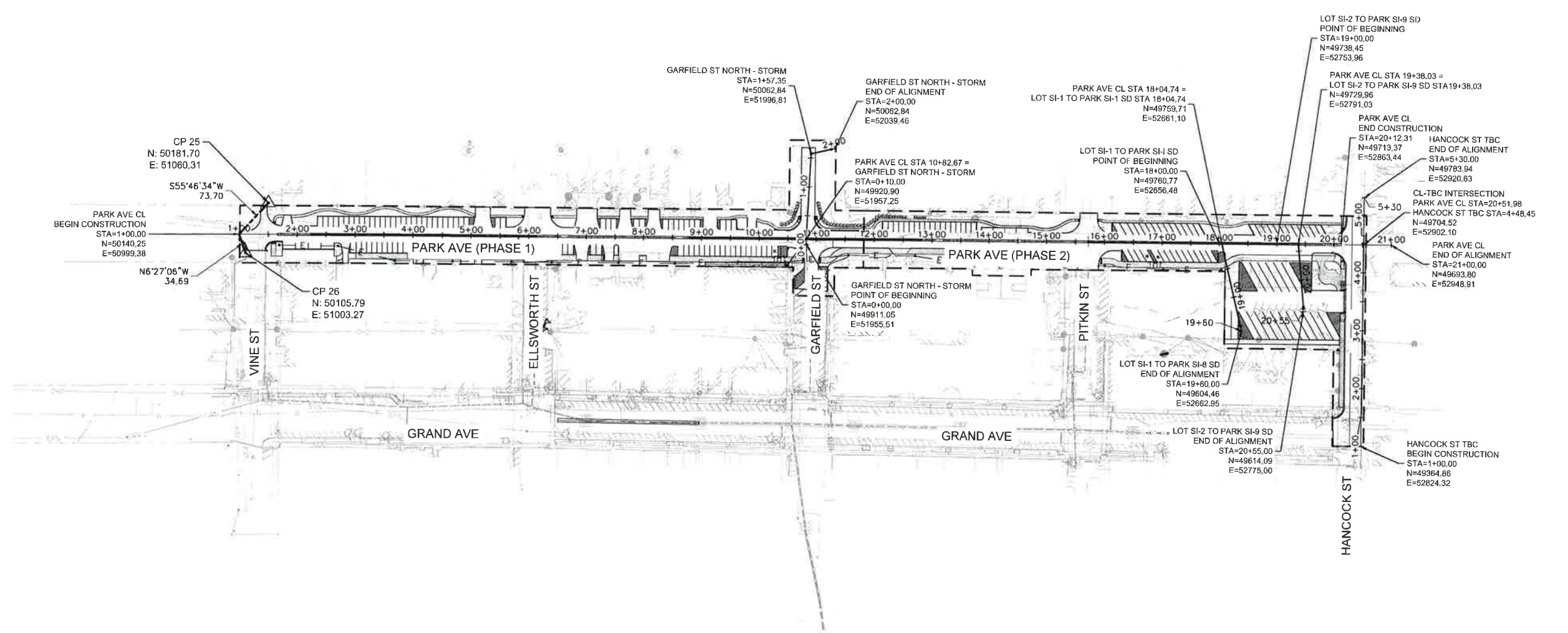


SHEET NUMBER
SAQ-01

SCALE
 VERTICAL: AS NOTED
 HORIZONTAL: AS NOTED

JOB NUMBER
 223519-0000073

CAUTION: The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or use of these plans unless they are specifically approved by the engineer of these plans.



PROJECT BENCHMARK:
 (SET BY DIAMONDBACK) CP3 EL: 8,398.77' (NAVD 88)

PROJECT BASIS OF BEARINGS:
 NAD83(2011) COLORADO STATE PLANE COORDINATE SYSTEM NORTH ZONE MODIFIED TO LOCAL GROUND

THE COMBINED SCALE FACTOR IS BASED ON OPUS SOLUTION FROM:
 DIAMOND BACK CONTROL POINT NUMBER 10

TO CONVERT FROM NAD83(2011) COLORADO STATE PLANE COORDINATE SYSTEM NORTH ZONE TO LOCAL GROUND (N:50,000 E:50,000) SYSTEM:

- 1) MULTIPLY THE COORDINATES BY THE INVERSE OF THE COMBINED SCALE FACTOR:
 CSF= 0.99955746 (INVERSE: 1.0004427359) USING AN ORIGIN OF 0,0
- 2) TRUNCATE THE COORDINATES BY SUBTRACTING:
 FALSE NORTHING: 1,285,660.951
 FALSE EASTING: 2,850,166.401
- 3) ROTATE THE DATASET:
 COUNTERCLOCKWISE 0D 12' 37" USING CP10 AS A BASEPOINT

CP10 COORDINATES:	NORTHING:	EASTING:
CO83-NF	1,334,733.656	2,911,886.543
CO83-NF MODIFIED GROUND	1,335,324.591	2,912,975.651
LOCAL GROUND SYSTEM	NORTHING: 49,663.64	EASTING: 52,809.25

GRAND LAKE (PHASE 3):

DATE OF REPORT: JUNE 27, 2019
 PREPARED BY STEVEN D. PARKER
 HORIZONTAL DATUM: LOCAL GROUND (FROM: DIAMONDBACK SURVEYING)
 VERTICAL DATUM: NAVD 88, GEOID12B
 UNITS: U.S. SURVEY FEET
 DATE OF FIELD SURVEY: MAY 6, 7, 8, & 15, 201

CONTROL POINTS (CP) 3, 4, 5, 10, AND 31 ARE NAILS WITH ORANGE PLASTIC CAPS FOUND BY A NV5 SURVEY CREW. ALL CP COORDINATES WERE ESTABLISHED USING SURVEY GRADE GNSS RECEIVERS AND RTK METHODS. FIVE-HUNDRED (500) EPOCHS WERE RECORDED AT EACH POINT USING TRIMBLE R10 RECEIVERS, SERIAL NUMBERS 5252421977 & 5302423148. THE COORDINATES PROVIDED HEREIN WERE OBTAINED BY CONVERTING FROM NAD83(2011) COLORADO STATE PLANE GRID - NORTH ZONE TO LOCAL GROUND VALUES USING THE FOLLOWING PARAMETERS:

- 1) MULTIPLY THE COORDINATES BY THE INVERSE OF THE COMBINED SCALE FACTOR
 a. CSF: 0.99955746 (INVERSE: 1.0004427359)
- 2) TRUNCATE THE COORDINATES
 a. FALSE NORTHING: 1,285,660.95
 b. FALSE EASTING: 2,850,166.40
- 3) ROTATE THE DATASET
 a. COUNTER-CLOCKWISE 0° 12' 37"
 b. BASEPOINT: N-49,663.64 E-52,809.25

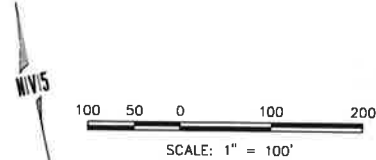
A LEVEL LOOP WAS PERFORMED FROM CP10 THROUGH CP21, 22, 23, 24, 26, 25, 27, 4, 3, 29, 28, 30, 31, AND BACK TO CP10 USING A LEICA DNO3 DIGITAL LEVEL, SERIAL NUMBER 33656. THE LEVEL LOOP SPECIFICATION WAS 2ND ORDER, CLASS 1 (0.025*SQRT(LENGTH OF THE TRAVERSE/5280)). THE ERROR OF CLOSURE WAS 0.002 FEET.

I, STEVEN PARKER, A DULY REGISTERED LAND SURVEYOR UNDER THE LAWS OF THE STATE OF COLORADO, DO HEREBY CERTIFY THAT THIS SURVEY CONTROL REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT IT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. IT IS NOT TO BE CONSTRUED, NOR DOES IT REPRESENT A MONUMENTED LAND SURVEY.

STEVEN D. PARKER
 COLORADO PROFESSIONAL LAND SURVEYOR, LICENSE NUMBER 38053
 JUNE 27, 2019

NV5, INC.
 2650 18TH STREET, SUITE 202
 DENVER, COLORADO 80211 TEL: (303) 220-6400

Control Point	Northing	Easting	Ortho Elev.	Desc.
CP3	50,000.00	49,999.96	8,398.63	FND Mag Nail w/OPC
CP4	49,951.90	50,538.12	8,384.80	FND Mag Nail w/OPC
CP5	49,794.02	50,991.01	8,387.34	FND Mag Nail w/OPC
CP10	49,663.64	52,809.25	8,396.13	FND Mag Nail w/OPC
CP21	49,838.47	52,476.66	8,393.96	SET Mag Nail w/Stainless Washer
CP22	49,777.68	52,392.88	8,393.25	SET Mag Nail w/Stainless Washer
CP23	49,965.65	51,966.40	8,394.78	SET Mag Nail w/Stainless Washer
CP24	50,111.92	51,514.66	8,391.19	SET Mag Nail w/Stainless Washer
CP25	50,181.70	51,060.31	8,395.12	SET Mag Nail w/Stainless Washer
CP26	50,105.79	51,003.27	8,393.22	SET Mag Nail w/Stainless Washer
CP27	49,986.04	51,004.75	8,388.28	SET Mag Nail w/Stainless Washer
CP28	49,590.54	51,847.36	8,389.60	SET Mag Nail w/Stainless Washer
CP29	49,687.33	51,459.50	8,387.70	SET Mag Nail w/Stainless Washer
CP30	49,461.63	52,391.96	8,391.59	SET Mag Nail w/Stainless Washer
CP31	49,339.62	52,809.03	8,394.60	FND Mag Nail w/OPC



NOTES:
 1. THIS MAP PRODUCT DOES NOT REPRESENT A MONUMENTED SURVEY. BOUNDARY LINES SHOWN HEREON ARE FROM INFORMATION PROVIDED BY THE TOWN OF GRAND LAKE AND/OR GRAND COUNTY GIS DATABASES. NV5, INC. ACCEPTS NO LIABILITY WITH RESPECT TO THE ACCURACY OF THE RECORD INFORMATION PROVIDED BY OTHERS.

NO.	DATE	REVISIONS
1	07/20/2020	ISSUED FOR BID
2	08/22/2020	ISSUED FOR CONSTRUCTION

GRAND LAKE STREETScape PHASE 3
GEOMETRIC LAYOUT
 PREPARED FOR: TOWN OF GRAND LAKE, CO DATE SUBMITTED: MAY 2019

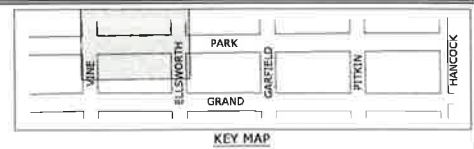
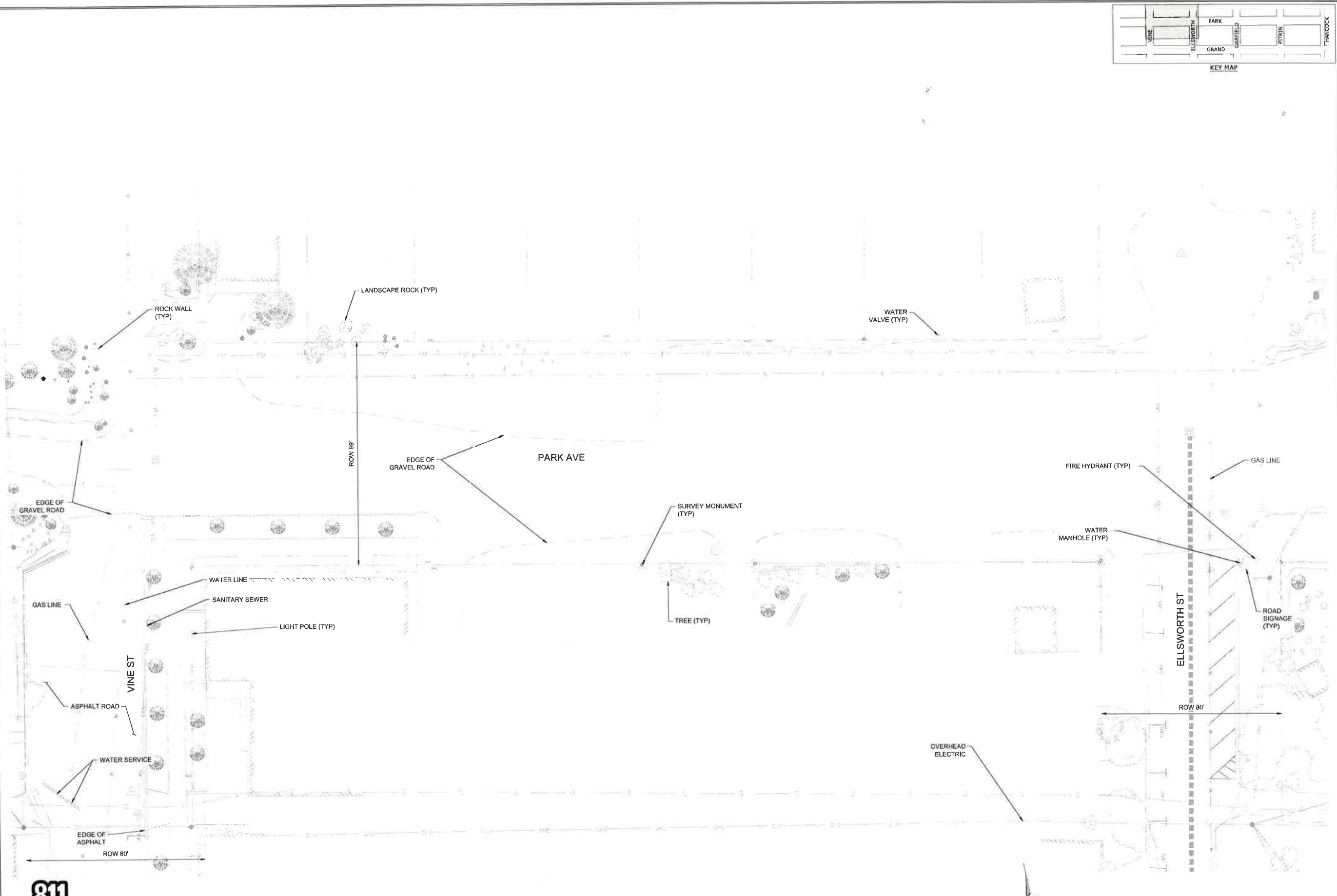
NV5
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SHEET NUMBER
GEM-01
 SCALE
 VERTICAL: AS NOTED
 HORIZONTAL: AS NOTED
 JOB NUMBER
 223519-000073

The engineer preparing these plans will not be responsible for or liable for, unapproved changes to or omissions from these plans. All changes to the plans must be in writing and must be approved by the preparer of these plans.

DATE: 6/22/20 TIME: 1:35 PM DRAWING NAME: 06 EXT.010
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 PATH: N:\223519-0000073\CADD\CIVIL



NO.	BY	DATE	REVISIONS
1	A.L.	07/27/20	ISSUED FOR CONSTRUCTION
2	A.L.	07/27/20	ISSUED FOR CONSTRUCTION

CAUTION
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GRAND LAKE STREETSCAPE PHASE 3
EXISTING CONDITIONS PLAN
PARK AVE - VINE ST TO ELLSWORTH ST

PREPARED FOR: TOWN OF GRAND LAKE, CO DATE SUBMITTED: MAY 2019

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SHEET NUMBER
EXT-01

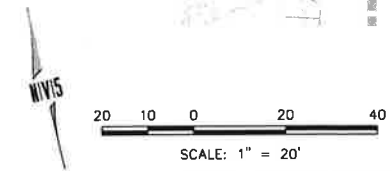
SCALE
 VERTICAL: AS NOTED
 HORIZONTAL: AS NOTED

JOB NUMBER
 223519-0000073



CALL 2 BUSINESS DAYS IN ADVANCE BEFORE YOU DIG. CAUSE ON DECATATE FOR THE MARKING OF UNDERGROUND UTILITIES.

PARK AVE - VINE ST TO ELLSWORTH ST
 SCALE: 1" = 20'



DATE: 5/22/20 TIME: 1:37 PM DRAWING NAME: 06 EXT.DWG
 SERVER: DV-FILE EDC: PROJ. MGR: BWMT PLOTTED BY: N/A
 PATH: N:\22319-0000073\CA00\CIVL



NO.	BY	DATE	REVISIONS
1	A.L.	02/20/2020	ISSUED FOR BIDDING
2	P.A.L.	02/22/2020	ISSUED FOR CONSTRUCTION

GRAND LAKE STREETSCAPE PHASE 3
 EXISTING CONDITIONS PLAN
 PARK AVE - GARFIELD ST

PREPARED FOR: TOWN OF GRAND LAKE, CO DATE SUBMITTED: MAY 2019

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SHEET NUMBER
EXT-02

SCALE
 VERTICAL: AS NOTED
 HORIZONTAL: AS NOTED

JOB NUMBER
 223519-0000073



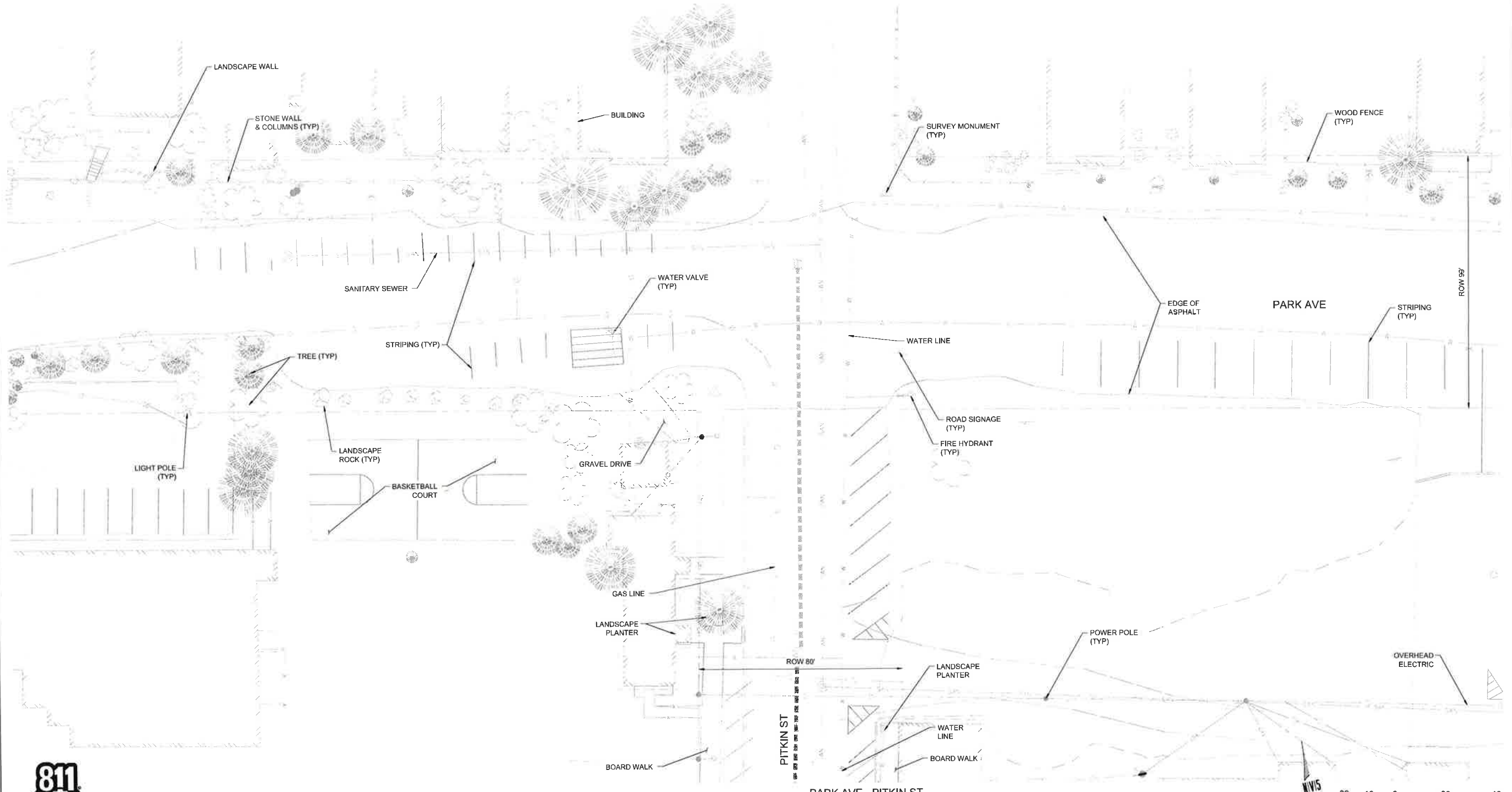
Know what's below.
 Call before you dig.
 CALL 7 BUSINESS DAYS IN ADVANCE BEFORE YOU DIG. GRADE OR EXCAVATE FOR THE MARKING OF UNDERGROUND UTILITIES.

PARK AVE - GARFIELD ST
 SCALE: 1" = 20'



CAUTION
 The engineer preparing these plans will not be responsible for or liable for, unauthorized changes to or uses of these plans. All changes to the plans must be in writing and must be approved by the engineer of these plans.

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NO.	BY	DATE	REVISIONS
1	A.L.	07/29/2020	ISSUED FOR CONSTRUCTION
2	A.L.	07/27/2020	ISSUED FOR CONSTRUCTION

CAUTION
 The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans. All changes to the plans must be in writing and must be approved by the preparer of these plans.

GRAND LAKE STREETSCAPE PHASE 3
EXISTING CONDITIONS PLAN
PARK AVE - PITKIN ST

PREPARED FOR: TOWN OF GRAND LAKE, CO DATE SUBMITTED: MAY 2019

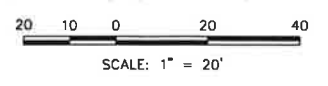
N|V|S
 BEYOND ENGINEERING
 5445 MARK DABLING BLVD., SUITE 100 COLORADO SPRINGS, CO 80918
 719.288.8563 TEL. 303.539.9840 FAX WWW.NV5.COM



SHEET NUMBER
EXT-03
 SCALE
 VERTICAL: AS NOTED
 HORIZONTAL: AS NOTED
 JOB NUMBER
 223519-0000073



PARK AVE - PITKIN ST
 SCALE: 1" = 20'



DATE: 6/22/20 TIME: 1:39 PM DRAWING NAME: 08 EXT.DWG
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NO.	BY	DATE	REVISIONS
1	A.S.	07/20/2020	ISSUED FOR BIDDING
2	P.A.L.	07/27/2020	ISSUED FOR CONSTRUCTION

CAUTION: The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans. All changes to the plans must be in writing and must be approved by the engineer of these plans.

GRAND LAKE STREETSCAPE PHASE 3
 EXISTING CONDITIONS PLAN
 HANCOCK ST - GRAND AVE TO PARK AVE

PREPARED FOR: TOWN OF GRAND LAKE, CO DATE SUBMITTED: MAY 2019

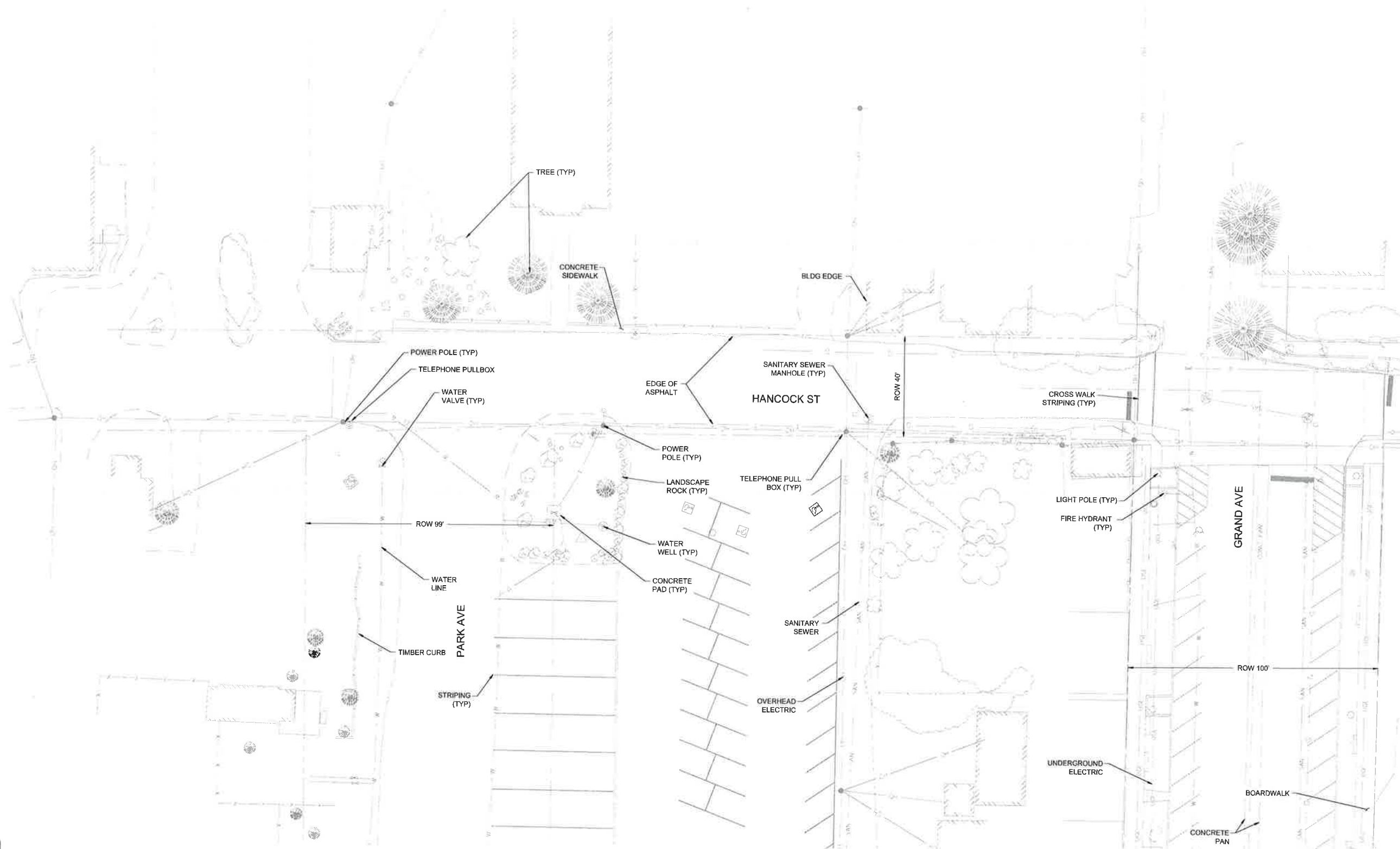
N|V|S
 BEYOND ENGINEERING
 5445 MARK DARLING BLVD, SUITE 100 COLORADO SPRINGS, CO 80918
 719.266.6563 TEL 303.539.8840 FAX WWW.NVS.COM



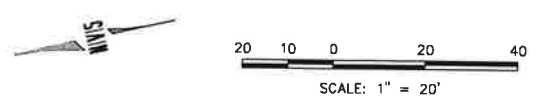
SHEET NUMBER
EXT-04

SCALE
 VERTICAL: AS NOTED
 HORIZONTAL: AS NOTED

JOB NUMBER
 223519-000073



HANCOCK ST - GRAND AVE TO PARK AVE
 SCALE: 1" = 20'

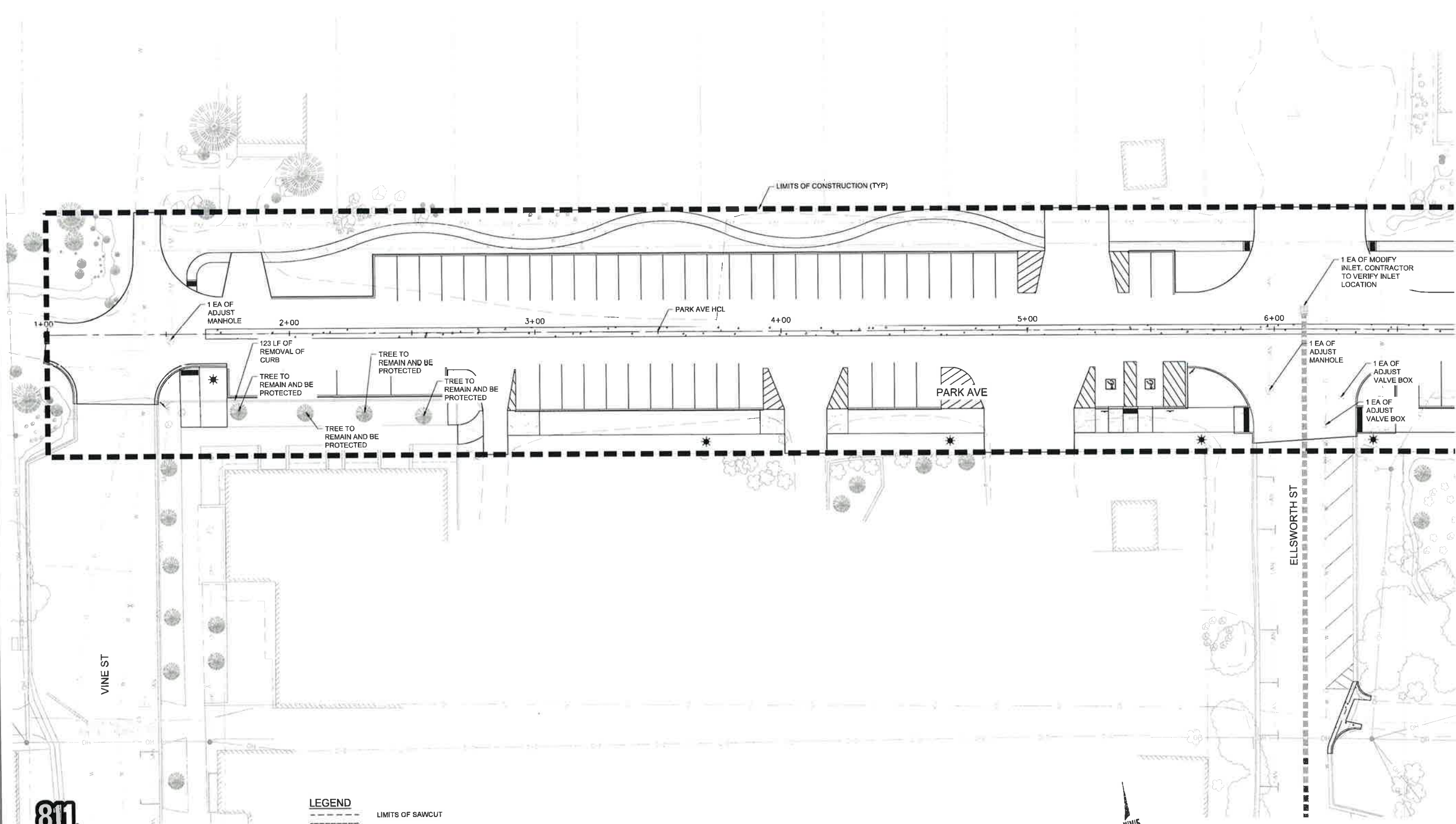
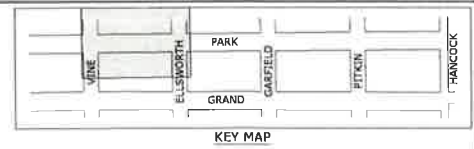


Know what's below.
 Call before you dig.
 CALL 1 BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE
 OR EXCAVATE FOR THE MARKING OF UNDERGROUND UTILITIES.

DATE: 6/15/21 TIME: 8:24 AM DRAWING NAME: D7_REM.DWG
 SERVER: DW-FILE DESIGNER: EDC PROJ MGR: BIMT PLOTTED BY: N/A
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- NOTES:
- UTILITY INFORMATION SHOWN IS PLOTTED FROM THE BEST AVAILABLE DATA. THE CONTRACTOR IS RESPONSIBLE FOR MAKING THEIR OWN DETERMINATION AS TO THE TYPE, SIZE, AND LOCATION OF UTILITIES THAT MAY BE NECESSARY TO AVOID DAMAGE THERETO. CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO AT 811 FOR UTILITY LOCATIONS A MINIMUM 48 HOURS PRIOR TO EXCAVATING. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY FOR ANY UTILITIES REQUIRING RELOCATION.
 - UTILITIES TO BE ADJUSTED, RESET, OR REMOVED SHALL BE COMPLETED BY THE UTILITY OWNER. THE CONTRACTOR SHALL COORDINATE THESE ADJUSTMENTS, RESETS, OR REMOVALS WITH THE UTILITY OWNER A MINIMUM OF 48 HOURS PRIOR TO EXCAVATION.
 - ANY GAS VALVES, WATER VALVES, CLEANOUTS, OR OTHER UTILITY FEATURES TO REMAIN IN PLACE SHALL BE ADJUSTED TO MATCH FINISHED GRADE.
 - ALL SAWCUTTING SHALL BE INCIDENTAL TO THE WORK BEING PERFORMED. SAWCUT LOCATIONS ARE PROVIDED FOR INFORMATION ONLY AND WILL NOT BE PAID FOR SEPARATELY.
 - SAWCUT TO NEAT VERTICAL AND HORIZONTAL LINES USING A CUTTING SAW OR OTHER METHOD AS APPROVED BY THE ENGINEER.

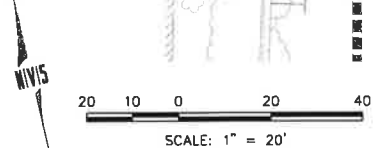
- NOTES CONTINUED:
- EXISTING POWER POLES, LIGHT POLES, AND ELECTRICAL/COMMUNICATION BOXES SHALL BE PROTECTED IN PLACE.
 - RESET GROUND SIGNS SHALL FOLLOW ALL LOCAL, STATE, AND FEDERAL GUIDELINES. PLACEMENT OF GROUND SIGNS SHALL BE PERFORMED AT THE DIRECTION OF THE PROJECT ENGINEER.
 - REMOVAL OF LANDSCAPE BOULDERS TO BE PAID FOR AS CLEARING AND GRUBBING.



LEGEND

	LIMITS OF SAWCUT
	LIMITS OF REMOVAL OF CONCRETE PAVEMENT
	LIMITS OF REMOVAL OF ASPHALT MAT

PARK AVE - VINE ST TO ELLSWORTH ST
 SCALE: 1" = 20'



CALL 2 BUSINESS DAYS IN ADVANCE BEFORE YOU DIG. GRADE OR EXCAVATE FOR THE MARKING OF UNDERGROUND UTILITIES.

NO.	BY	DATE	REVISIONS
1	A.S.	02/20/2020	ISSUED FOR BIDDING
2	A.S.	06/22/2021	ISSUED FOR CONSTRUCTION

The engineer preparing these plans will not be responsible for or liable for, unauthorized changes or uses of these plans. All changes to the plans must be in writing and must be approved by the preparer of these plans.

**GRAND LAKE STREETSCAPE PHASE 3
 REMOVAL AND RESET PLAN
 PARK AVE - VINE ST TO ELLSWORTH ST**

PREPARED FOR: TOWN OF GRAND LAKE, CO DATE SUBMITTED: MAY 2019

N|V|S
 BEYOND ENGINEERING
 5445 MARK DABLING BLVD., SUITE 100 COLORADO SPRINGS, CO 80918
 719.266.6563 TEL 303.539.9640 FAX
 WWW.NV5.COM



SHEET NUMBER	REM-01
SCALE	VERTICAL: AS NOTED HORIZONTAL: AS NOTED
JOB NUMBER	223519-0000073

06-15-2021

DATE: 6/22/20 TIME: 1:58 PM DRAWING NAME: 07 REM.DWG
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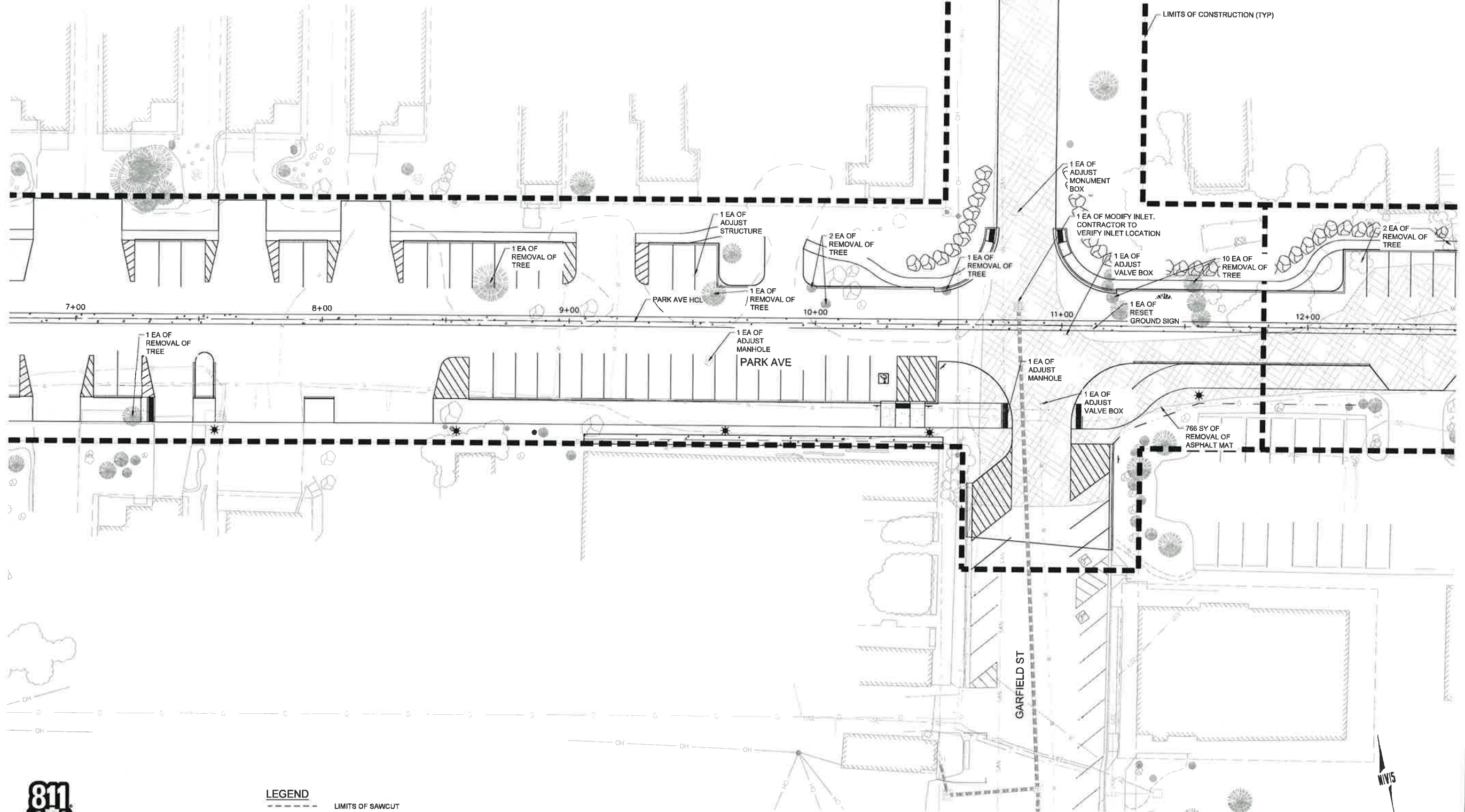
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 - UTILITIES TO BE ADJUSTED, RESET, OR REMOVED SHALL BE COMPLETED BY THE UTILITY OWNER, THE CONTRACTOR SHALL COORDINATE THESE ADJUSTMENTS, RESETS, OR REMOVALS WITH THE UTILITY OWNER A MINIMUM OF 48 HOURS PRIOR TO EXCAVATION.
 - ANY GAS VALVES, WATER VALVES, CLEANOUTS, OR OTHER UTILITY FEATURES TO REMAIN IN PLACE SHALL BE ADJUSTED TO MATCH FINISHED GRADE.
 - ALL SAWCUTTING SHALL BE INCIDENTAL TO THE WORK BEING PERFORMED. SAWCUT LOCATIONS ARE PROVIDED FOR INFORMATION ONLY AND WILL NOT BE PAID FOR SEPARATELY.
 - SAWCUT TO NEAT VERTICAL AND HORIZONTAL LINES USING A CUTTING SAW OR OTHER METHOD AS APPROVED BY THE ENGINEER.

- NOTES CONTINUED:
- EXISTING POWER POLES, LIGHT POLES, AND ELECTRICAL/COMMUNICATION BOXES SHALL BE PROTECTED IN PLACE.
 - RESET GROUND SIGNS SHALL FOLLOW ALL LOCAL, STATE, AND FEDERAL GUIDELINES. PLACEMENT OF GROUND SIGNS SHALL BE PERFORMED AT THE DIRECTION OF THE PROJECT ENGINEER.
 - REMOVAL OF LANDSCAPE BOULDERS TO BE PAID FOR AS CLEARING AND GRUBBING.



NO.	BY	DATE	REVISIONS
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2	A.L.	07/27/2020	ISSUED FOR CONSTRUCTION

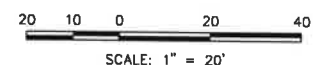
CAUTION
 The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or use of these plans. Any such changes or use must be in writing and must be approved by the engineer of these plans.



LEGEND

	LIMITS OF SAWCUT
	LIMITS OF REMOVAL OF CONCRETE PAVEMENT
	LIMITS OF REMOVAL OF ASPHALT MAT

PARK AVE - GARFIELD ST
 SCALE: 1" = 20'



GRAND LAKE STREETSCAPE PHASE 3
 REMOVAL AND RESET PLAN
 PARK AVE - GARFIELD ST

PREPARED FOR: TOWN OF GRAND LAKE, CO DATE SUBMITTED: MAY 2019



SHEET NUMBER
REM-02

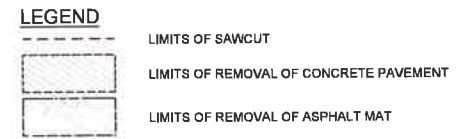
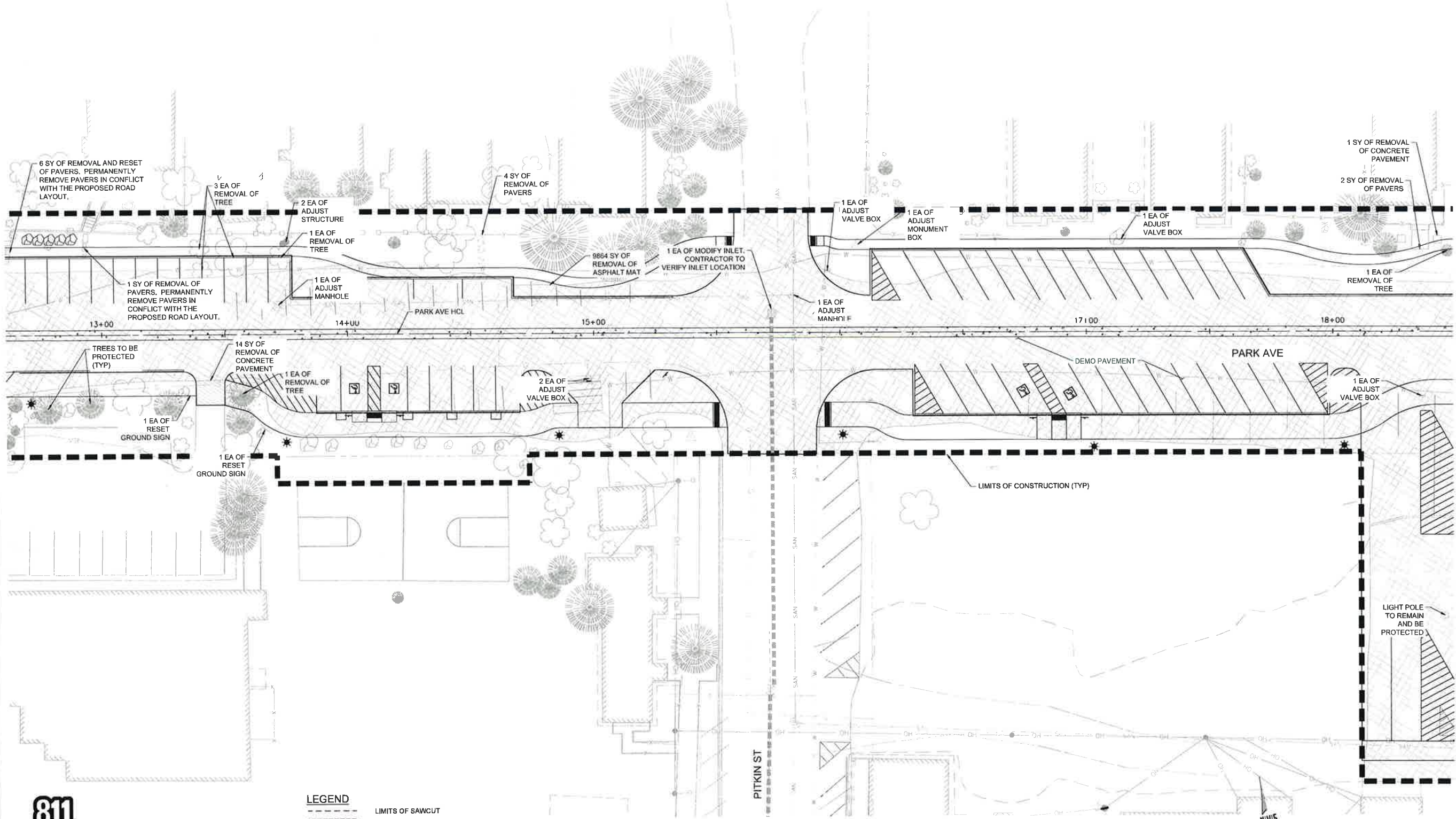
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 HORIZONTAL: AS NOTED

JOB NUMBER
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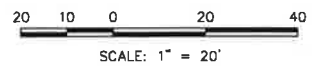
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- NOTES:
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 - REMOVAL OF LANDSCAPE BOULDERS TO BE PAID FOR AS CLEARING AND GRUBBING.

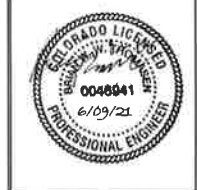


PARK AVE - PITKIN ST
 SCALE: 1" = 20'



**GRAND LAKE STREETSCAPE PHASE 3
 REMOVAL AND RESET PLAN
 PARK AVE - PITKIN ST**

N|V|S
 BEYOND ENGINEERING
 5445 MARK DABLING BLVD, SUITE 100 COLORADO SPRINGS, CO 80918
 719.266.8563 TEL. 303.539.5840 FAX
 WWW.NVS.COM



SHEET NUMBER:
REM-03
 SCALE:
 VERTICAL: AS NOTED
 HORIZONTAL: AS NOTED
 JOB NUMBER:
 223519-0000073

CAUTION
 The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans unless they are approved by the engineer.

PREPARED FOR: TOWN OF GRAND LAKE, CO DATE SUBMITTED: MAY 2019

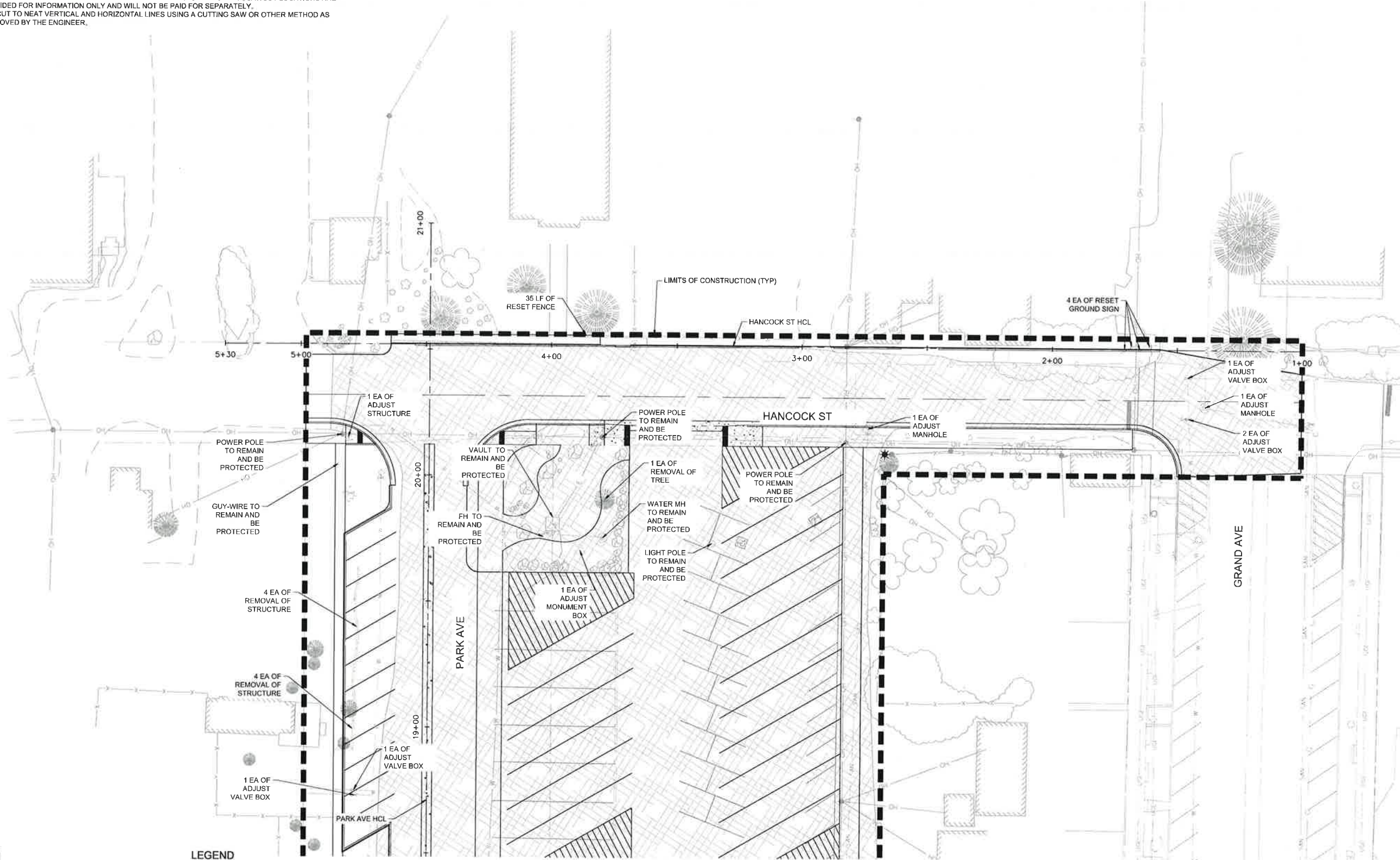
- NOTES:
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 - REMOVAL OF LANDSCAPE BOULDERS TO BE PAID FOR AS CLEARING AND GRUBBING.



NO.	DATE	DESCRIPTION
1	05/27/2021	ISSUED FOR BIDS
2	06/02/2021	ISSUED FOR CONSTRUCTION

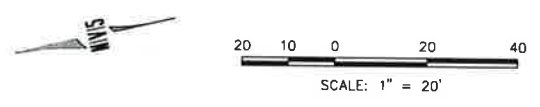
The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or omissions from these plans. Any changes to the plans must be in writing and must be approved by the engineer or these plans.



LEGEND

	LIMITS OF SAWCUT
	LIMITS OF REMOVAL OF CONCRETE PAVEMENT
	LIMITS OF REMOVAL OF ASPHALT MAT

HANCOCK ST - GRAND AVE TO PARK AVE
 SCALE: 1" = 20'



GRAND LAKE STREETSCAPE PHASE 3
 REMOVAL AND RESET PLAN
 HANCOCK ST - GRAND AVE TO PARK AVE

PREPARED FOR: TOWN OF GRAND LAKE, CO DATE SUBMITTED: MAY 2019



5445 MARK CABLEING BLVD, SUITE 100 COLORADO SPRINGS, CO 80918
 719.266.6563 TEL 303.559.8610 FAX
 WWW.NVS.COM

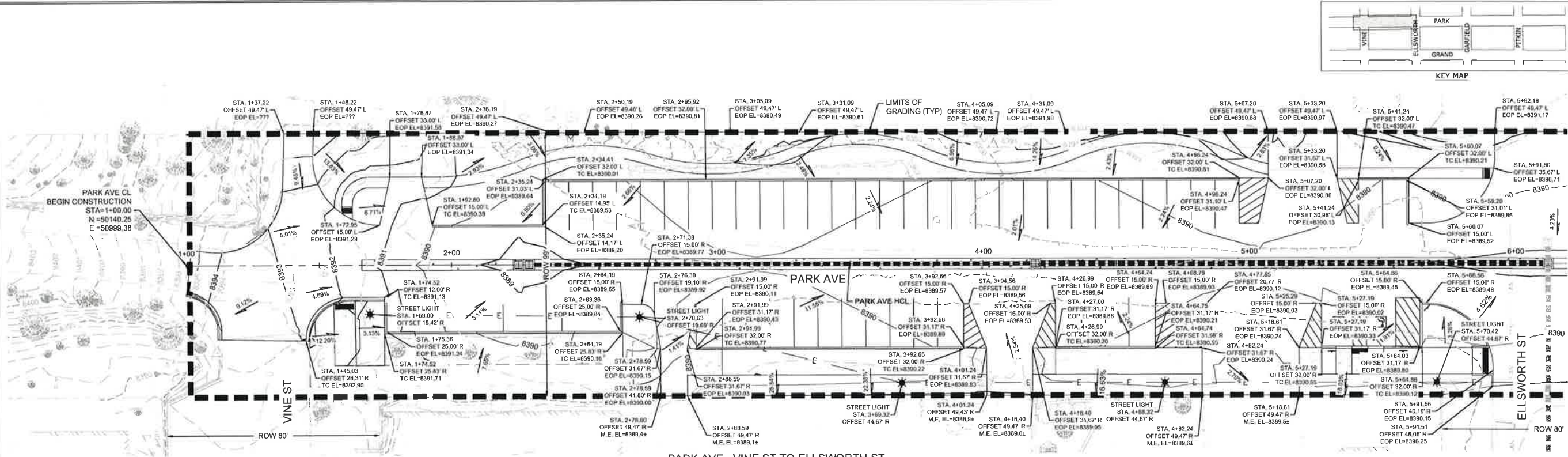


SHEET NUMBER
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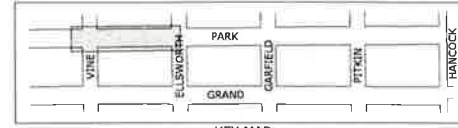
SCALE
 VERTICAL: AS NOTED
 HORIZONTAL: AS NOTED

JOB NUMBER
 223519-000073

DATE: 6/15/21 TIME: 9:25 AM DRAWING NAME: 08 PNP-DWG
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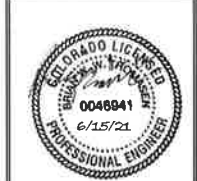
PARK AVE - VINE ST TO ELLSWORTH ST
 SCALE: 1" = 20'



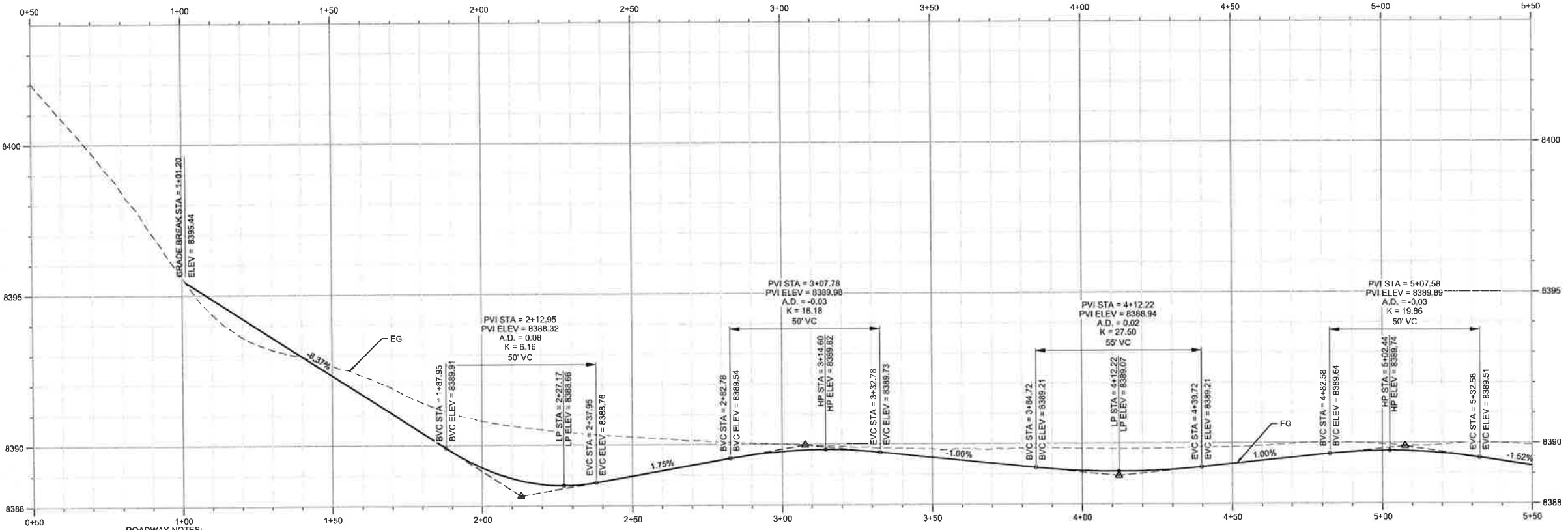
NO.	BY	DATE	DESCRIPTION
1	AL	06/15/2020	ISSUED FOR CONSTRUCTION
2	AL	07/17/2020	OWNER DIRECTED CHANGE
3	AL	07/17/2020	OWNER DIRECTED CHANGE

GRAND LAKE STREETSCAPE PHASE 3
PARK AVE PLAN AND PROFILE
STA: 1+00 TO 5+50

PREPARED FOR: TOWN OF GRAND LAKE, CO
 DATE SUBMITTED: MAY 2019
 5445 MARK DABLING BLVD, SUITE 100 COLORADO SPRINGS, CO 80918
 WWW.INVS.COM
 719.269.8563 TEL. 303.539.9840 FAX



SHEET NUMBER
PNP-01
 SCALE
 VERTICAL: AS NOTED
 HORIZONTAL: AS NOTED
 JOB NUMBER
23519-0000073



ROADWAY NOTES:

- REFER TO THE TYPICAL SECTIONS DRAWING FOR ADDITIONAL INFORMATION ON CURB AND GUTTER, CONCRETE SIDEWALK, SAWCUTTING, HOT MIX ASPHALT (PATCHING), AND CONCRETE PAVEMENT.
- A MINIMUM DISTANCE OF 5 FEET SHALL BE USED TO TRANSITION CURB AND GUTTER AND SIDEWALK FROM PROPOSED TO EXISTING.
- REFER TO ROADWAY INTERSECTION DETAILS INT-01 FOR INFORMATION ON TIE-INS.

GRADING NOTES:

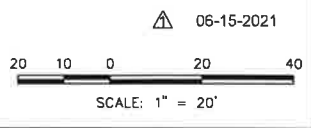
- THE OWNER/CONTRACTOR MUST OBTAIN A CDP'S STORMWATER DISCHARGE PERMIT FROM THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT, IF NECESSARY.
- ALL SIDEWALKS AND CRUSHER FINES PATHS SHALL HAVE A MAXIMUM CROSS SLOPE OF 2% AND A MAXIMUM LONGITUDINAL SLOPE OF 5% AND SHALL CONFORM TO CURRENT ADA GUIDELINES. HANDICAP PARKING AREAS PROVIDED PER CITY STANDARDS AND SHALL COMPLY WITH REQUIREMENTS OF THE CURRENT, ADOPTED UNIFORM BUILDING CODE. ADA COMPLIANT ZONE OF ACCESSIBILITY FROM BUILDING FRONT ENTRANCE TO HANDICAP PARKING STALLS. CROSS SLOPES NOT TO EXCEED 2% IN ALL DIRECTIONS.

- ALL CONCRETE SURFACES SHALL HAVE A MINIMUM SLOPE OF 0.5%.
- ALL ASPHALT SURFACES SHALL HAVE A MINIMUM SLOPE OF 1%.
- NO WORK SHALL BEGIN UNTIL ALL PERMITS HAVE BEEN OBTAINED.
- GUTTER GRADES SHALL BE A MINIMUM 0.5%.
- EDGE OF PAVEMENT (EOP) ELEVATIONS ARE NOT FINISHED GRADE (FG) ELEVATIONS.
- EDGE OF PAVEMENT (EOP) LABELS ARE FOR THE EOP AND DO NOT INCLUDE THE 4 INCHES OF GRADE OVER THE PAVEMENT.

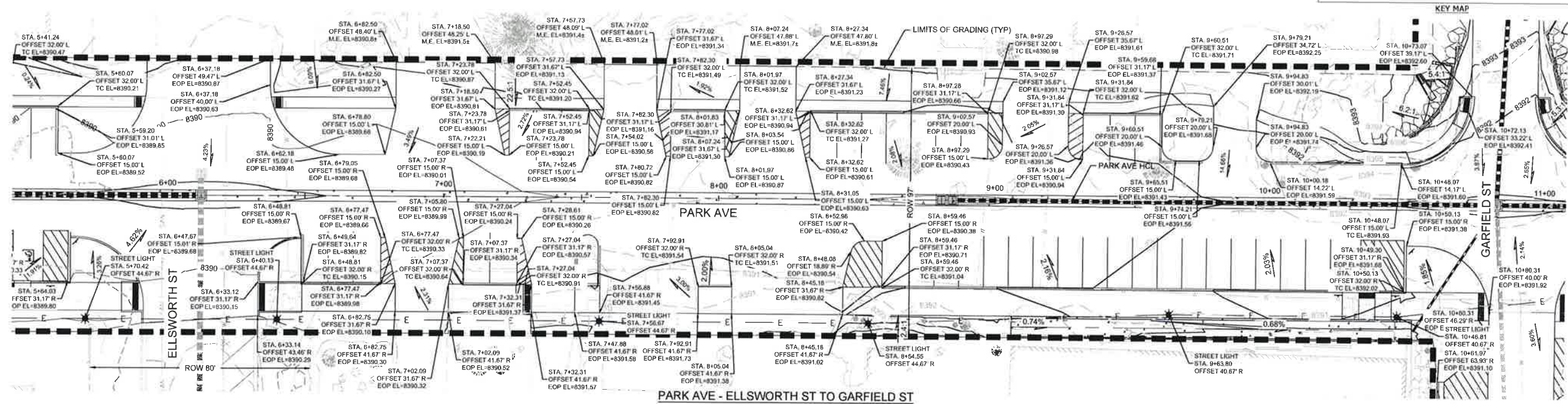
- FINAL GRADES ARE SUBJECT TO MINOR CHANGE BY CONTRACTOR. NO GRADE CHANGES IN EXCESS OF 0.05' WITHOUT ENGINEER APPROVAL.
- RETAINING WALLS GREATER THAN 4 FEET IN HEIGHT WILL REQUIRE A SEPARATE BUILDING PERMIT PRIOR TO INSTALLATION.
- MAXIMUM SLOPE ALLOWED FOR GRADING IS 3:1.
- ALL ACCESSIBLE RAMPS SHALL HAVE A MAXIMUM SLOPE OF 12:1.
- THE TOP OF TIMBER CURB IS TYPICALLY 0.34' ABOVE THE EDGE OF PAVEMENT.

NOTES

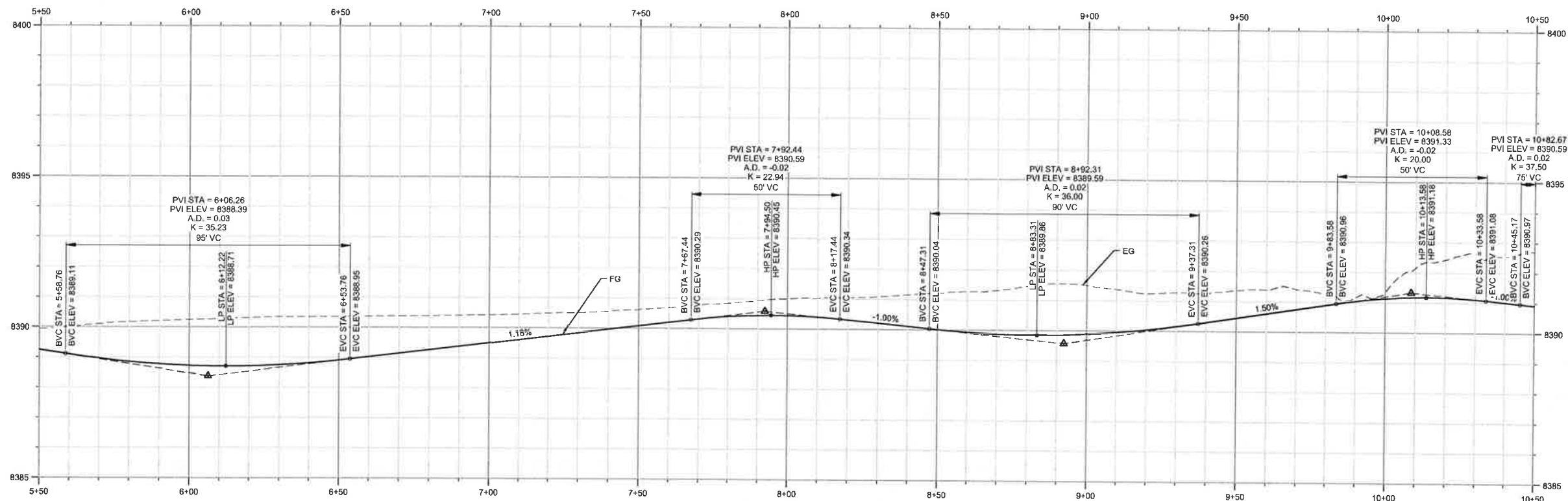
EOP = EDGE OF PAVEMENT
 TC = TOP OF CURB/TOP OF
 TIMBER CURB



DATE: 6/15/21 TIME: 5:25 AM DRAWING NAME: 06 PNP-DWG
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PARK AVE - ELLSWORTH ST TO GARFIELD ST
 SCALE: 1" = 20'



PARK CL - RD
 STA 5+0 TO 10+50
 SCALE: 1"=20' HORIZ, 1"=2' VERT

ROADWAY NOTES:

- REFER TO THE TYPICAL SECTIONS DRAWING FOR ADDITIONAL INFORMATION ON CURB AND GUTTER, CONCRETE SIDEWALK, SAWCUTTING, HOT MIX ASPHALT (PATCHING), AND CONCRETE PAVEMENT.
- A MINIMUM DISTANCE OF 5 FEET SHALL BE USED TO TRANSITION CURB AND GUTTER AND SIDEWALK FROM PROPOSED TO EXISTING.
- REFER TO ROADWAY INTERSECTION DETAILS INT-01 FOR INFORMATION ON TIE-INS.

GRADING NOTES:

- THE OWNER/CONTRACTOR MUST OBTAIN A CDPS STORMWATER DISCHARGE PERMIT FROM THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT, IF NECESSARY.
- ALL SIDEWALKS AND CRUSHER FINES PATHS SHALL HAVE A MAXIMUM CROSS SLOPE OF 2% AND A MAXIMUM LONGITUDINAL SLOPE OF 5% AND SHALL CONFORM TO CURRENT ADA GUIDELINES. HANDICAP PARKING AREAS PROVIDED PER CITY STANDARDS AND SHALL COMPLY WITH REQUIREMENTS OF THE CURRENT, ADOPTED UNIFORM BUILDING CODE. ADA COMPLIANT ZONE OF ACCESSIBILITY FROM BUILDING FRONT ENTRANCE TO HANDICAP PARKING STALLS. CROSS SLOPES NOT TO EXCEED 2% IN ALL DIRECTIONS.

- ALL CONCRETE SURFACES SHALL HAVE A MINIMUM SLOPE OF 0.5%.
- ALL ASPHALT SURFACES SHALL HAVE A MINIMUM SLOPE OF 1%.
- NO WORK SHALL BEGIN UNTIL ALL PERMITS HAVE BEEN OBTAINED.
- GUTTER GRADES SHALL BE A MINIMUM 0.5%.
- EDGE OF PAVEMENT (EOP) ELEVATIONS ARE NOT FINISHED GRADE (FG) ELEVATIONS. EDGE OF PAVEMENT (EOP) LABELS ARE FOR THE EOP AND DO NOT INCLUDE THE 4 INCHES OF GRADE OVER THE PAVEMENT.

- FINAL GRADES ARE SUBJECT TO MINOR CHANGE BY CONTRACTOR. NO GRADE CHANGES IN EXCESS OF 0.05' WITHOUT ENGINEER APPROVAL.
- RETAINING WALLS GREATER THAN 4 FEET IN HEIGHT WILL REQUIRE A SEPARATE BUILDING PERMIT PRIOR TO INSTALLATION.
- MAXIMUM SLOPE ALLOWED FOR GRADING IS 3:1.
- ALL ACCESSIBLE RAMPS SHALL HAVE A MAXIMUM SLOPE OF 12:1.
- THE TOP OF TIMBER CURB IS TYPICALLY 0.34' ABOVE THE EDGE OF PAVEMENT.

NOTES

EOP = EDGE OF PAVEMENT
 TC = TOP OF CURB/TOP OF
 TIMBER CURB



GRAND LAKE STREETSCAPE PHASE 3
 PARK AVE PLAN AND PROFILE
 STA: 5+50 TO 10+50

PREPARED FOR: TOWN OF GRAND LAKE, CO DATE SUBMITTED: MAY 2019



5445 MARK DABLING BLVD, SUITE 100 COLORADO SPRINGS, CO 80918
 719.288.6563 TEL. 303.539.9840 FAX
 WWW.NIV5.COM



SHEET NUMBER
PNP-02

SCALE
 VERTICAL: AS NOTED
 HORIZONTAL: AS NOTED

JOB NUMBER
 223519-0000073

REVISIONS
 NO. DATE BY
 1 07/29/2020 ISSUED FOR BIDDING
 2 ALL CHANGES TO BE MADE BY THE CONTRACTOR
 3 ALL CHANGES TO BE MADE BY THE CONTRACTOR
 4 ALL CHANGES TO BE MADE BY THE CONTRACTOR

The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans. All changes to the plans must be in writing and must be approved by the engineer of these plans.



CALL 811 BEFORE YOU DIG TO LOCATE UTILITIES. MARK AND EXCAVATE FOR THE MARKING OF UNDERGROUND UTILITIES.

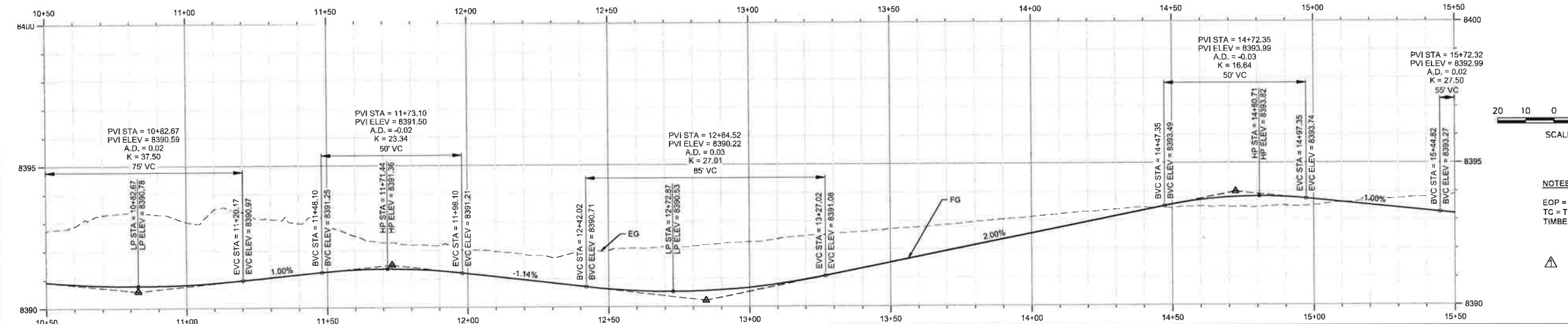
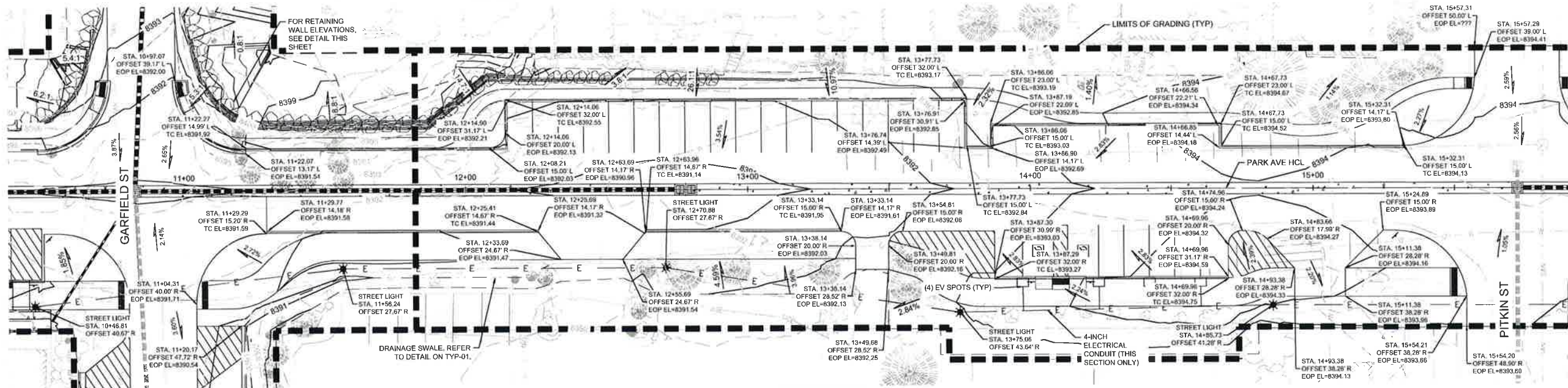
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 PATH: 6/15/21
 DESIGNED BY: N/A
 PLOTTED BY: N/A
 DWG FILE: D:\PROJBOX (NVS)\NFDEN-PROJ\223519-000003\CADD\CIVIL

GRADING NOTES:

1. THE OWNER/CONTRACTOR MUST OBTAIN A CDP'S STORMWATER DISCHARGE PERMIT FROM THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT, IF NECESSARY.
2. ALL SIDEWALKS AND CRUISHER FINES PATHS SHALL HAVE A MAXIMUM CROSS SLOPE OF 2% AND A MAXIMUM LONGITUDINAL SLOPE OF 5% AND SHALL CONFORM TO CURRENT ADA GUIDELINES. HANDICAP PARKING AREAS PROVIDED PER CITY STANDARDS AND SHALL COMPLY WITH REQUIREMENTS OF THE CURRENT, ADOPTED UNIFORM BUILDING CODE. ADA COMPLIANT ZONE OF ACCESSIBILITY FROM BUILDING FRONT ENTRANCE TO HANDICAP PARKING STALLS. CROSS SLOPES NOT TO EXCEED 2% IN ALL DIRECTIONS.

3. ALL CONCRETE SURFACES SHALL HAVE A MINIMUM SLOPE OF 0.5%.
4. ALL ASPHALT SURFACES SHALL HAVE A MINIMUM SLOPE OF 1%.
5. NO WORK SHALL BEGIN UNTIL ALL PERMITS HAVE BEEN OBTAINED.
6. GUTTER GRADES SHALL BE A MINIMUM 0.5%.
7. EDGE OF PAVEMENT (EOP) ELEVATIONS ARE NOT FINISHED GRADE (FG) ELEVATIONS. EDGE OF PAVEMENT (EOP) LABELS ARE FOR THE EOP AND DO NOT INCLUDE THE 4 INCHES OF GRADE OVER THE PAVEMENT.

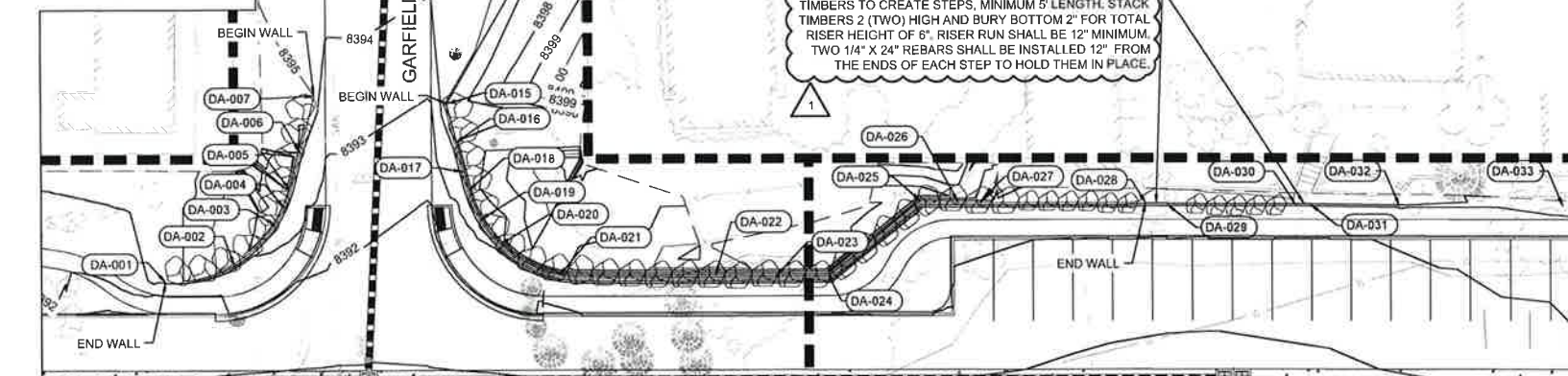
8. FINAL GRADES ARE SUBJECT TO MINOR CHANGE BY CONTRACTOR. NO GRADE CHANGES IN EXCESS OF 0.05' WITHOUT ENGINEER APPROVAL.
9. RETAINING WALLS GREATER THAN 4 FEET IN HEIGHT WILL REQUIRE A SEPARATE BUILDING PERMIT PRIOR TO INSTALLATION.
10. MAXIMUM SLOPE ALLOWED FOR GRADING IS 3:1.
11. ALL ACCESSIBLE RAMPS SHALL HAVE A MAXIMUM SLOPE OF 12:1.
12. THE TOP OF TIMBER CURB IS TYPICALLY 0.34' ABOVE THE EDGE OF PAVEMENT.



RETAINING WALL DATA POINTS

DATA POINT	STATION	OFFSET	TOW ELEVATION	BOW ELEVATION
(DA-001)	10+35.00	21.89' L	8394.20	8393.20
(DA-002)	10+52.40	25.80 L	8394.41	8394.39
(DA-003)	10+61.70	34.79 L	8394.54	8394.42
(DA-004)	10+63.68	38.60 L	8394.99	8394.43
(DA-005)	10+65.02	42.65 L	8395.44	8394.50
(DA-006)	10+67.33	51.00L	8395.94	8395.00
(DA-007)	10+70.72	63.77' L	8395.40	8394.40
(DA-015)	11+00.10	61.85' L	8396.15	8395.29
(DA-016)	11+02.48	53.22' L	8397.05	8395.05
(DA-017)	11+04.11	46.57' L	8398.00	8395.06
(DA-018)	11+05.38	42.48' L	8397.99	8395.00
(DA-019)	11+08.00	35.86' L	8398.08	8394.89
(DA-020)	11+12.46	30.33 L	8397.90	8395.00
(DA-021)	11+25.56	23.30' L	8397.15	8394.19
(DA-022)	11+61.15	23.27' L	8399.93	8393.99
(DA-023)	11+74.87	23.12' L	8399.99	8393.98
(DA-024)	11+86.62	23.46' L	8399.56	8393.74
(DA-025)	12+07.38	39.87' L	8398.74	8393.75
(DA-026)	12+15.83	38.62' L	8397.66	8393.85
(DA-027)	12+20.70	39.37' L	8396.80	8393.75
(DA-028)	12+58.42	38.98' L	8394.54	8394.24
(DA-029)	12+63.24	38.98' L	8394.66	8392.23
(DA-030)	12+92.24	39.00' L	8394.83	8392.29
(DA-031)	12+95.65	39.00' L	8394.84	8392.31
(DA-032)	13+15.88	38.61' L	8394.02	8393.02
(DA-033)	13+52.71	38.62' L	8393.68	8393.54

**PARK CL - RD
 STA 10+50 TO 15+50
 SCALE: 1"=20' HORIZ, 1"=2' VERT**



**GARFIELD ST - DRY-STACK BOULDER
 RETAINING WALL DETAIL
 SCALE: 1" = 20'**

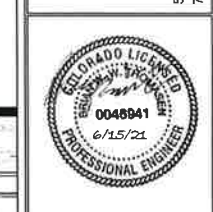


CALL 2 BUSINESS DAYS IN ADVANCE BEFORE YOU DIG OR EXCAVATE FOR THE MARKING OF UNDERGROUND UTILITIES.

NO.	DATE	BY	DESCRIPTION
1	03/15/20	WJ	ISSUED FOR CONSTRUCTION
2	06/22/2020	WJ	ISSUED FOR CONSTRUCTION
3	07/21/2020	WJ	OWNER DIRECTED CHANGE

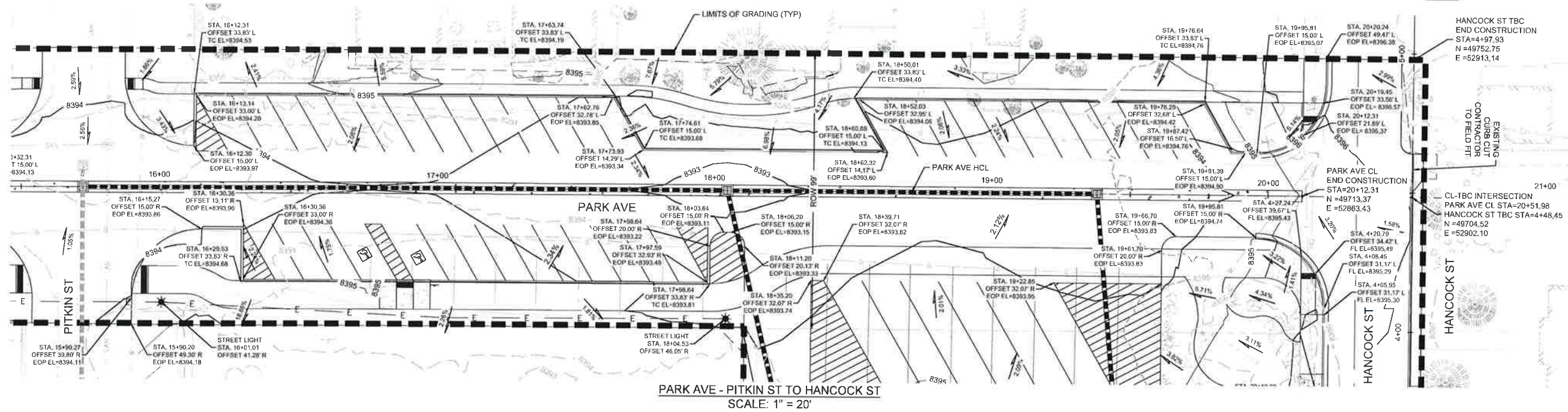
**GRAND LAKE STREETSCAPE PHASE 3
 PARK AVE PLAN AND PROFILE
 STA: 10+50 TO 15+50**

PREPARED FOR: TOWN OF GRAND LAKE, CO
 DATE SUBMITTED: MAY 2019
 WWW.NVS.COM
 5445 MARK DABLING BLVD, SUITE 100, COLORADO SPRINGS, CO 80918
 719.268.8563 TEL. 303.539.9840 FAX

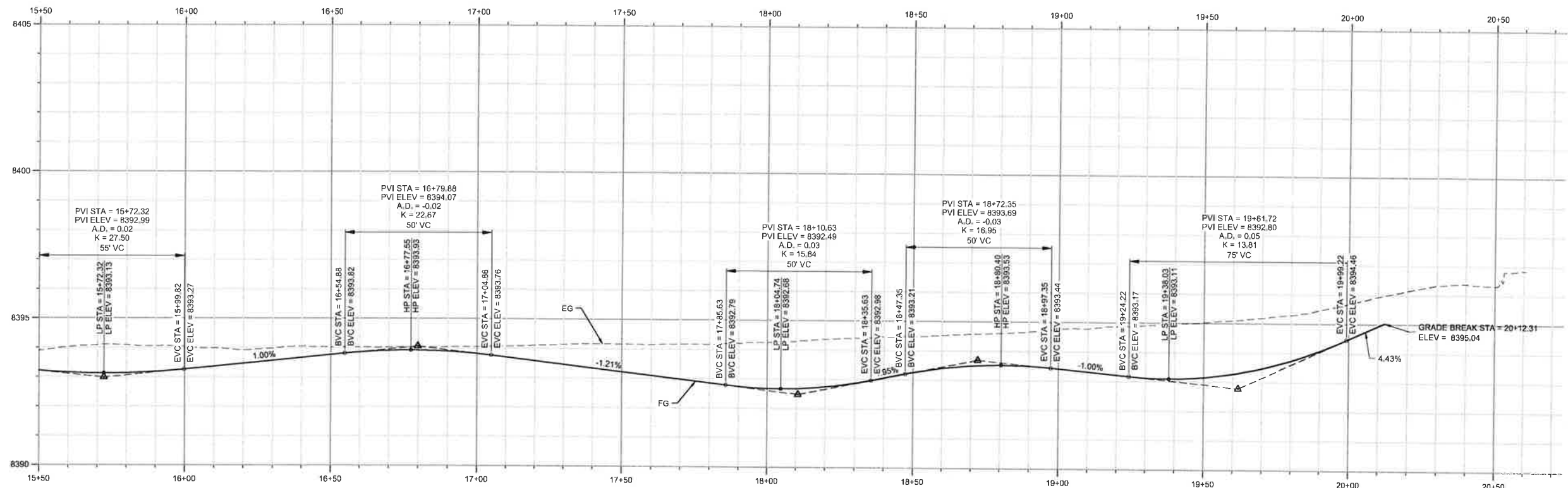


SHEET NUMBER
PNP-03
 SCALE
 VERTICAL: AS NOTED
 HORIZONTAL: AS NOTED
 JOB NUMBER
 223519-0000073

DATE: 6/21/21 TIME: 3:18 PM DRAWING NAME: 08 PNP-DWG
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PARK AVE - PITKIN ST TO HANCOCK ST
 SCALE: 1" = 20'



PARK CL - RD
 STA 15+50 TO 21+00
 SCALE: 1"=20' HORIZ, 1"=2' VERT

ROADWAY NOTES:

- REFER TO THE TYPICAL SECTIONS DRAWING FOR ADDITIONAL INFORMATION ON CURB AND GUTTER, CONCRETE SIDEWALK, SAWCUTTING, HOT MIX ASPHALT (PATCHING), AND CONCRETE PAVEMENT. A MINIMUM DISTANCE OF 5 FEET SHALL BE USED TO TRANSITION CURB AND GUTTER AND SIDEWALK FROM PROPOSED TO EXISTING.
- REFER TO ROADWAY INTERSECTION DETAILS INT-01 FOR INFORMATION ON TIE-INS.

GRADING NOTES:

- THE OWNER/CONTRACTOR MUST OBTAIN A CDPS STORMWATER DISCHARGE PERMIT FROM THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT, IF NECESSARY.
- ALL SIDEWALKS AND CRUSHER FINES PATHS SHALL HAVE A MAXIMUM CROSS SLOPE OF 2% AND A MAXIMUM LONGITUDINAL SLOPE OF 5% AND SHALL CONFORM TO CURRENT ADA GUIDELINES. HANDICAP PARKING AREAS PROVIDED PER CITY STANDARDS AND SHALL COMPLY WITH REQUIREMENTS OF THE CURRENT, ADOPTED UNIFORM BUILDING CODE. ADA COMPLIANT ZONE OF ACCESSIBILITY FROM BUILDING FRONT ENTRANCE TO HANDICAP PARKING STALLS. CROSS SLOPES NOT TO EXCEED 2% IN ALL DIRECTIONS.

- ALL CONCRETE SURFACES SHALL HAVE A MINIMUM SLOPE OF 0.5%.
- ALL ASPHALT SURFACES SHALL HAVE A MINIMUM SLOPE OF 1%.
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- GUTTER GRADES SHALL BE A MINIMUM 0.5%.
- EDGE OF PAVEMENT (EOP) ELEVATIONS ARE NOT FINISHED GRADE (FG) ELEVATIONS. EDGE OF PAVEMENT (EOP) LABELS ARE FOR THE EOP AND DO NOT INCLUDE THE 4 INCHES OF GRADE OVER THE PAVEMENT.

- FINAL GRADES ARE SUBJECT TO MINOR CHANGE BY CONTRACTOR. NO GRADE CHANGES IN EXCESS OF 0.05' WITHOUT ENGINEER APPROVAL.
- RETAINING WALLS GREATER THAN 4 FEET IN HEIGHT WILL REQUIRE A SEPARATE BUILDING PERMIT PRIOR TO INSTALLATION.
- MAXIMUM SLOPE ALLOWED FOR GRADING IS 3:1.
- ALL ACCESSIBLE RAMPS SHALL HAVE A MAXIMUM SLOPE OF 12:1.
- THE TOP OF TIMBER CURB IS TYPICALLY 0.34' ABOVE THE EDGE OF PAVEMENT.

NOTES

EOP = EDGE OF PAVEMENT
 TC = TOP OF CURB/TOP OF
 TIMBER CURB

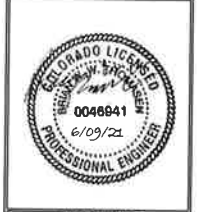


NO.	DATE	DESCRIPTION
1	07/20/2020	ISSUED FOR BID
2	07/27/2020	ISSUED FOR CONSTRUCTION
3	07/27/2020	UNLESS DIRECTED OTHERWISE

GRAND LAKE STREETSCAPE PHASE 3
PARK AVE PLAN AND PROFILE
STA: 15+50 TO 21+00

PREPARED FOR: TOWN OF GRAND LAKE, CO DATE SUBMITTED: MAY 2019

NV5
 BEYOND ENGINEERING
 5445 MARK DABLING BLVD, SUITE 100 COLORADO SPRINGS, CO 80918
 719.268.8563 TEL. 303.539.9840 FAX
 WWW.NV5.COM



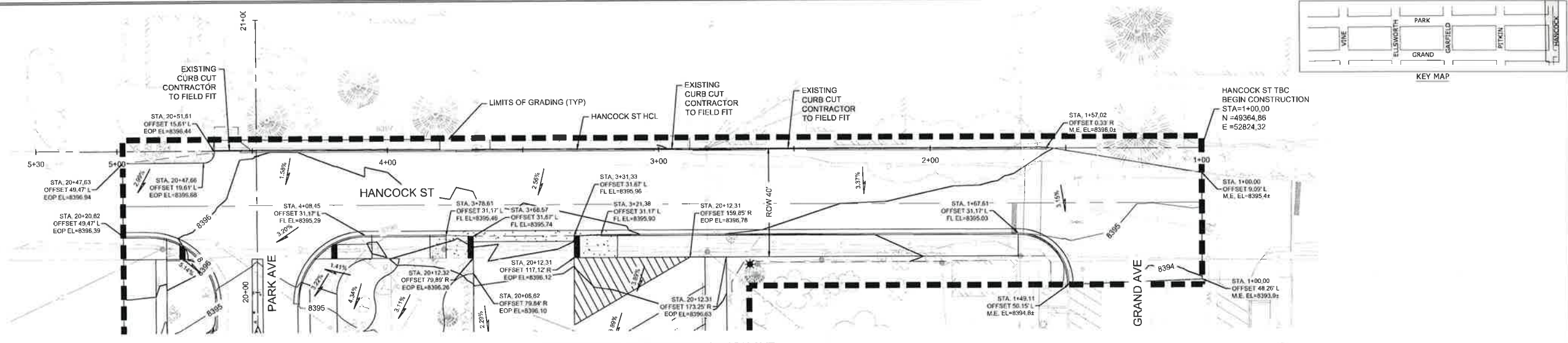
SHEET NUMBER
PNP-04

SCALE
 VERTICAL: AS NOTED
 HORIZONTAL: AS NOTED

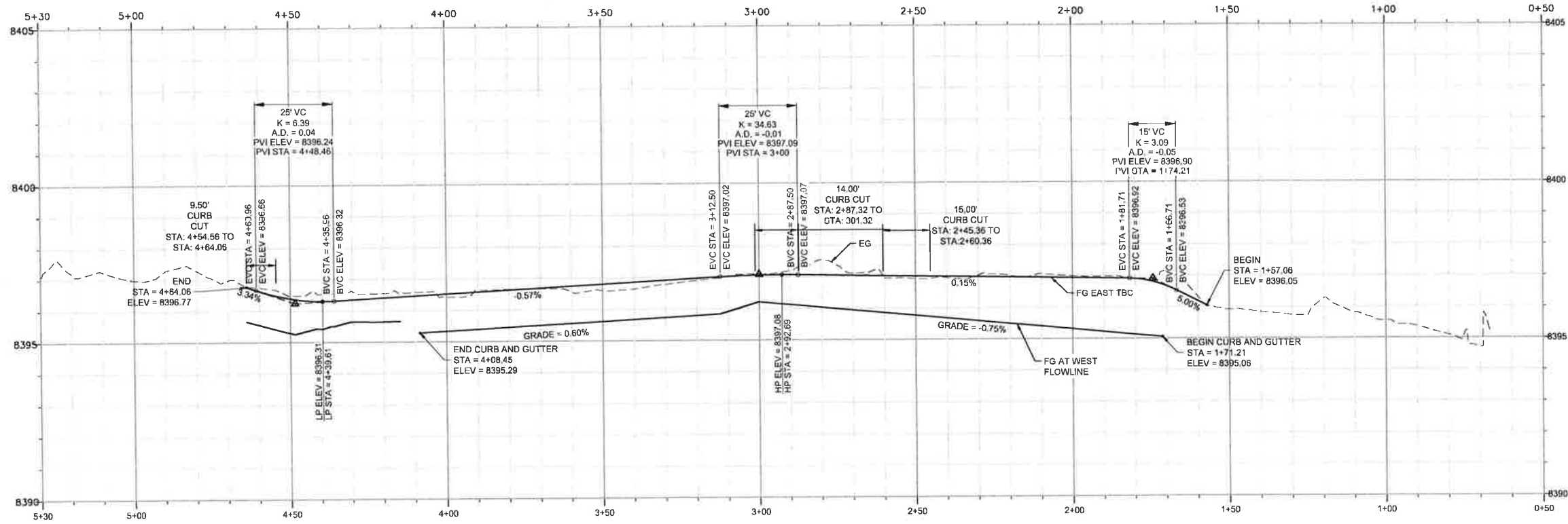
JOB NUMBER
 223519-0000073

CAUTION
 The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans. All changes to the plans must be in writing and must be approved by the engineer of these plans.

DATE: 6/10/21 TIME: 4:59 AM DRAWING NAME: 08 PNP-05
 SERVER: \\N:\23519-000073\CADD\CIVIL PLOTTED BY: N/A
 PATH:



HANCOCK ST - GRAND AVE TO PARK AVE
 SCALE: 1" = 20'



HANCOCK TBC - RD
 STA 0+50 TO 5+30
 SCALE: 1"=20' HORIZ, 1"=2' VERT

ROADWAY NOTES:

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- REFER TO ROADWAY INTERSECTION DETAILS INT-01 FOR INFORMATION ON TIE-INS.

GRADING NOTES:

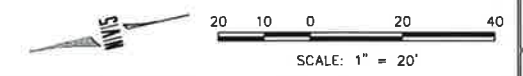
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NOTES

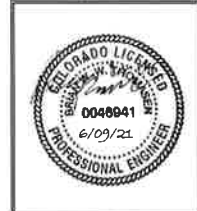
EOP = EDGE OF PAVEMENT
 TC = TOP OF CURB/TOP OF
 TIMBER CURB



NO.	DATE	BY	REVISIONS
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2	05/27/2020	AL	ISSUED FOR CONSTRUCTION

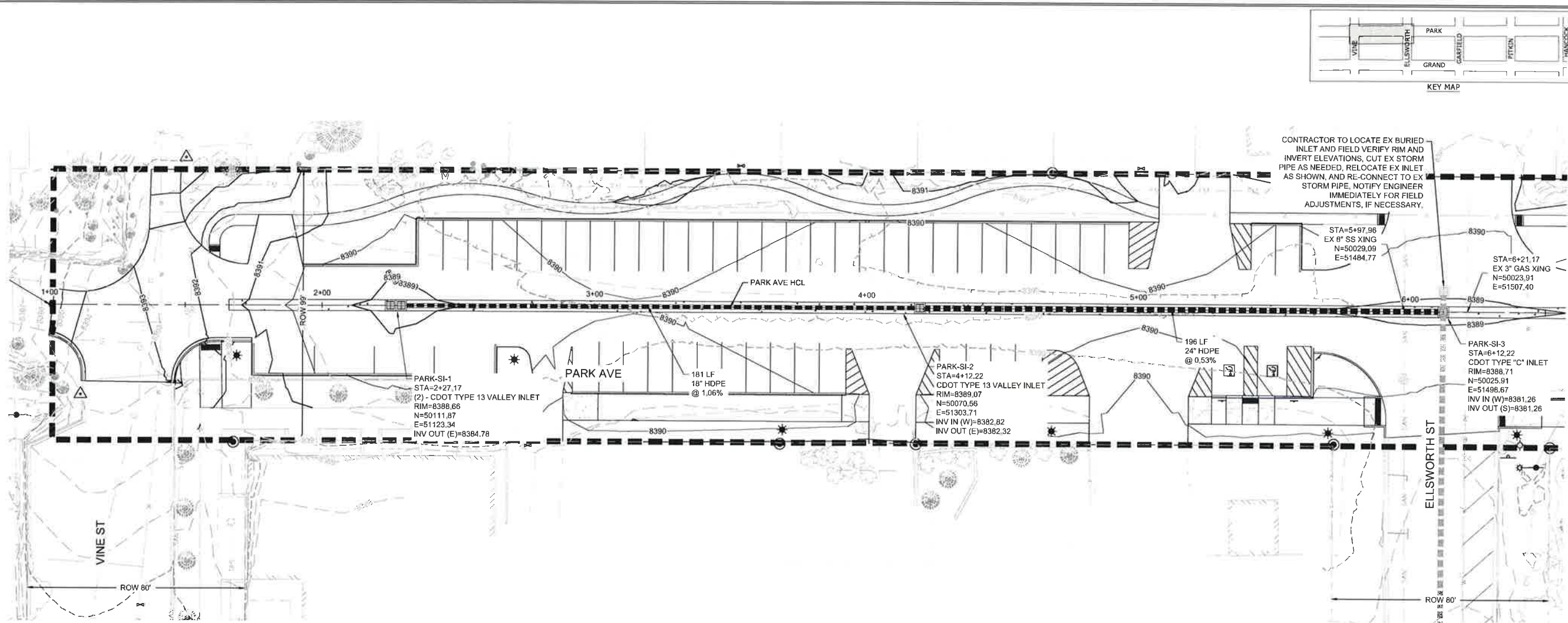
GRAND LAKE STREETSCAPE PHASE 3
HANCOCK ST PLAN AND PROFILE
 STA: 1+00 TO 4+50

PREPARED FOR: TOWN OF GRAND LAKE, CO DATE SUBMITTED: MAY 2019
 WWW.NV5.COM
 5445 MARK DABLING BLVD, SUITE 100 COLORADO SPRINGS, CO 80918
 719.268.8563 TEL. 303.539.9840 FAX

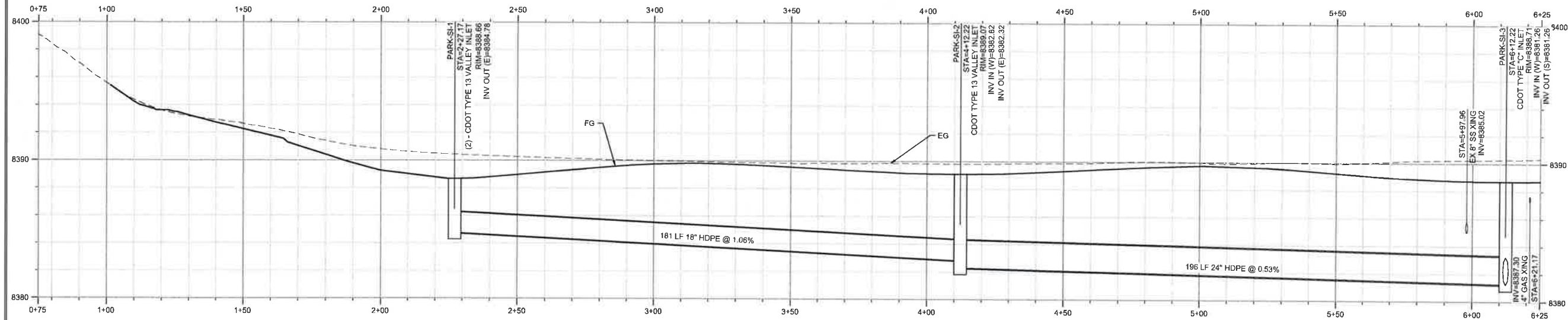


SHEET NUMBER
PNP-05
 SCALE
 VERTICAL: AS NOTED
 HORIZONTAL: AS NOTED
 JOB NUMBER
 223519-0000073

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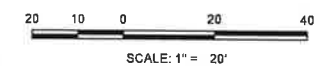
PARK AVE - VINE ST TO ELLSWORTH ST
 SCALE: 1" = 20'



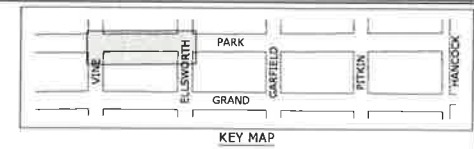
PARK CL - RD
 STA 0+75 TO 6+25
 SCALE: 1"=20' HORIZ, 1"=4' VERT



Know what's below.
 Call before you dig.
 CALL 7 BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE
 OR EXCAVATE FOR THE MARKING OF UNDERGROUND UTILITIES.



06-15-2021



GRAND LAKE STREETSCAPE PHASE 3
STORM DRAIN PLAN AND PROFILE
PARK AVE - VINE ST TO ELLSWORTH ST

PREPARED FOR: TOWN OF GRAND LAKE, CO DATE SUBMITTED: MAY 2019



5445 MARK DABLING BLVD, SUITE 100 COLORADO SPRINGS, CO 80918
 719.268.8563 TEL 303.539.8940 FAX WWW.NVS.COM



SHEET NUMBER
DRP-01

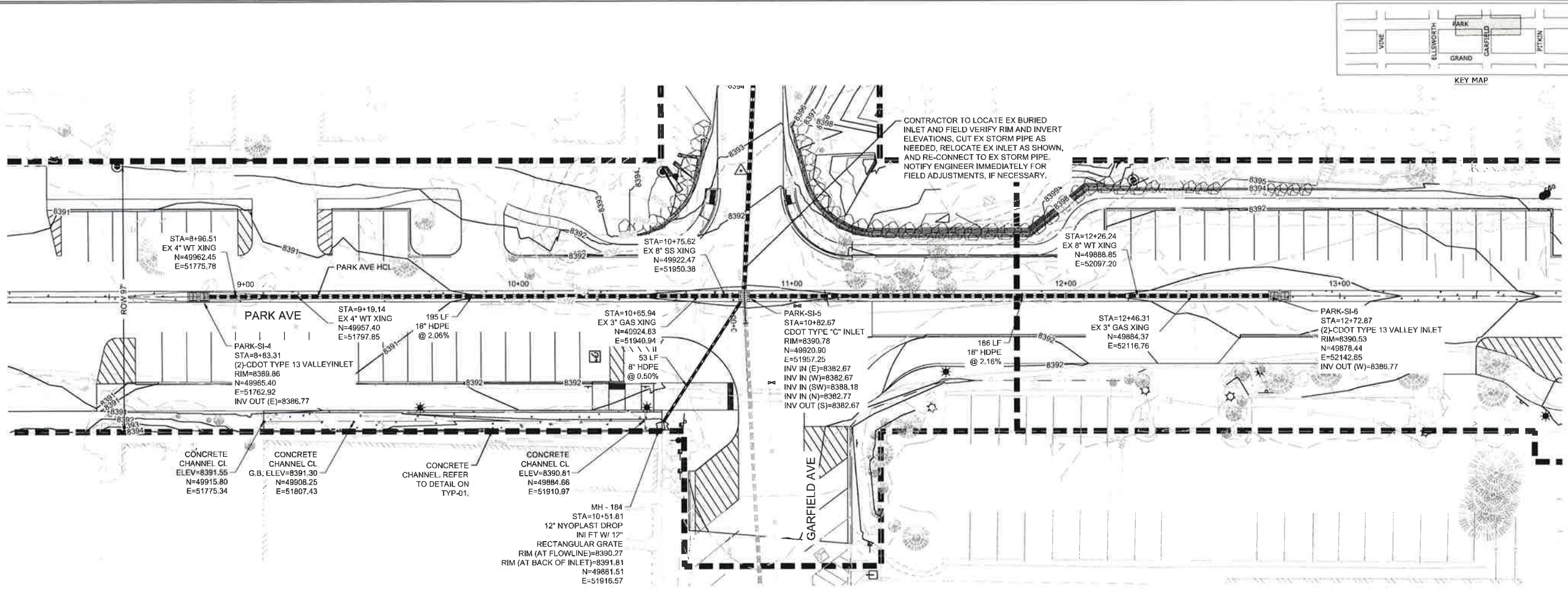
SCALE
 VERTICAL: AS NOTED
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JOB NUMBER
 223519-0000073

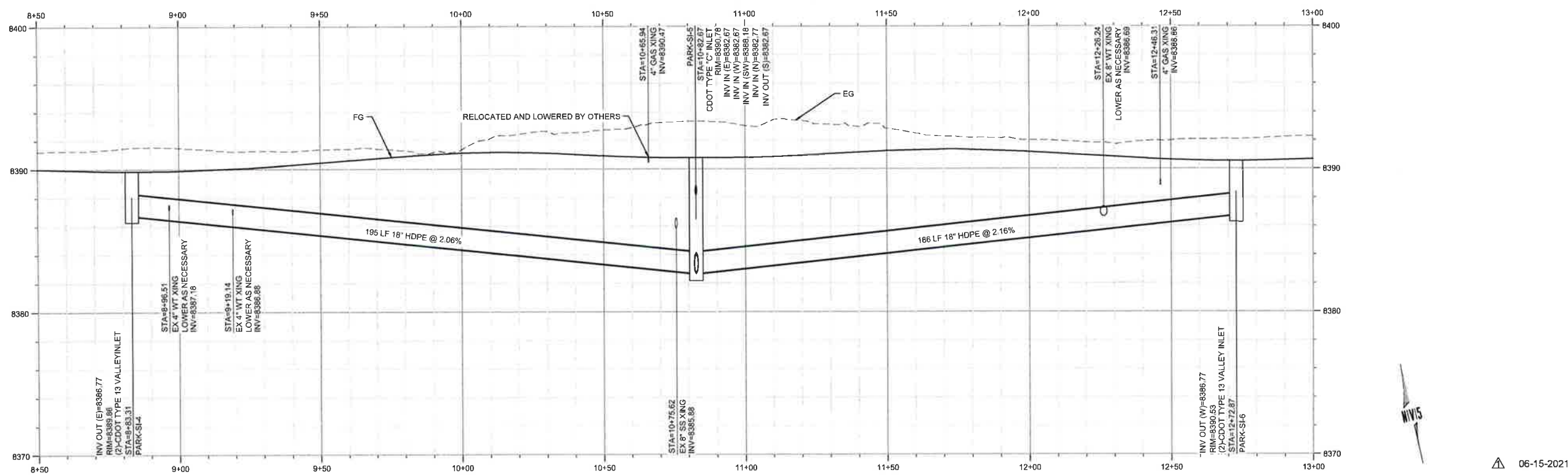
NO.	DATE	BY	REVISIONS
1	07/23/2020	A.L.	ISSUED FOR BIDS
2	07/23/2020	A.L.	REVISED FOR PERMITS
3	07/23/2020	A.L.	OWNER DIRECTED CHANGE
4	07/23/2020	A.L.	OWNER DIRECTED CHANGE

NO. 11/19
 The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or reuse of these plans, except to the extent that the engineer has approved in writing and must be approved by the engineer of these plans.

DATE: 6/15/21 TIME: 9:25 AM DRAWING NAME: DRP-02
 DESIGNED BY: N/A
 CHECKED BY: N/A
 DRAWN BY: N/A
 PLOTTED BY: N/A
 PROJECT NO: 223519-000073
 SHEET NO: 02



PARK AVE - GARFIELD ST
 SCALE: 1" = 20'



PARK CL - RD
 STA 8+50 TO 13+00
 SCALE: 1"=20' HORIZ, 1"=4' VERT



Know what's below.
 Call before you dig.
 CALL 2 BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE
 OR EXCAVATE FOR THE MARKING OF UNDERGROUND UTILITIES.

NO.	DATE	ISSUED FOR
1	02/20/2020	ISSUED FOR BID
2	05/17/2020	ISSUED FOR CONSTRUCTION
3	07/12/2021	OWNER RECEIVED CHANGE

GRAND LAKE STREETScape PHASE 3
STORM DRAIN PLAN AND PROFILE
PARK AVE - GARFIELD ST

NV5
 BEYOND ENGINEERING
 5445 MARK DABLING BLVD, SUITE 100 COLORADO SPRINGS, CO 80918
 719.268.6563 TEL. 303.539.9940 FAX
 WWW.NV5.COM



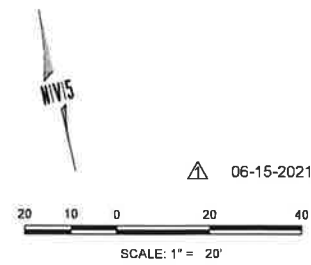
SHEET NUMBER
DRP-02

SCALE
 VERTICAL: AS NOTED
 HORIZONTAL: AS NOTED

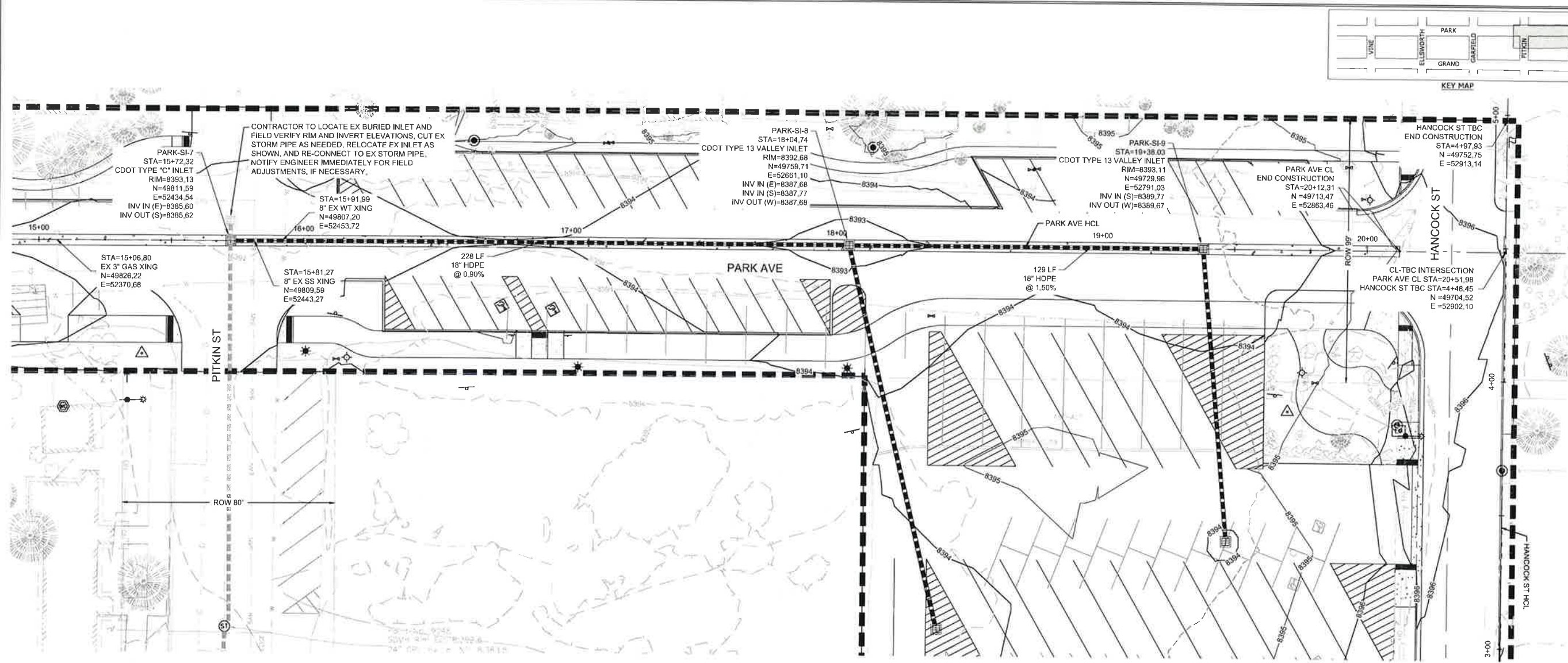
JOB NUMBER
223519-000073

CAUTION
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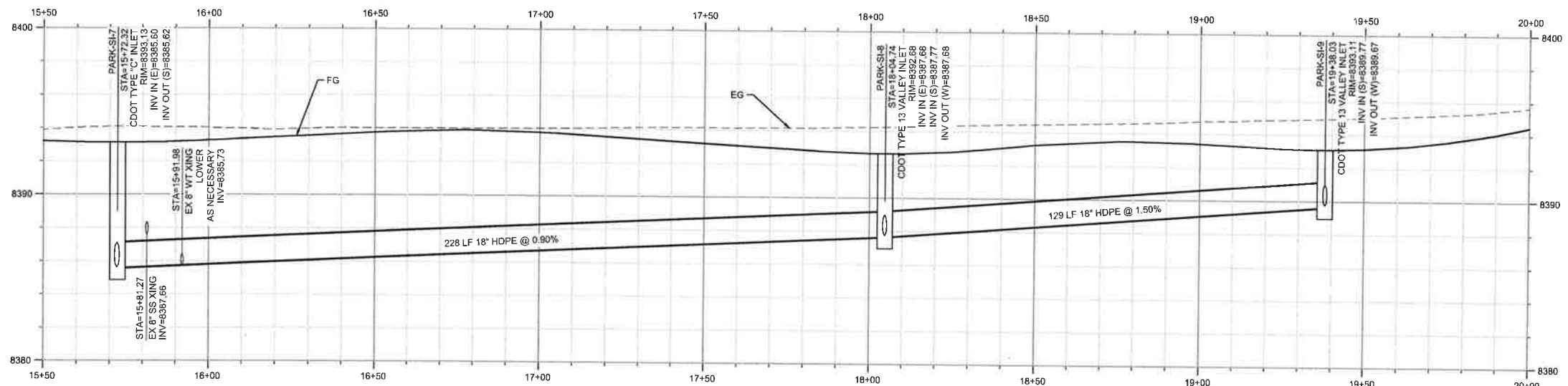
PREPARED FOR: TOWN OF GRAND LAKE, CO DATE SUBMITTED: MAY 2019



DATE: 5/9/21 TIME: 3:19 PM DRAWING NAME: 09 DRP.DWG
 SERVER: EDC PROJ. MGR: BMMT PLOTTED BY: N/A
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PARK AVE - PITKIN ST TO HANCOCK ST
 SCALE: 1" = 20'



PARK CL - RD
 STA 15+50 TO 20+00
 SCALE: 1"=20' HORIZ, 1"=4' VERT

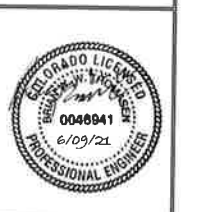


NO.	BY	DATE	REVISION
1	AL	02/20/2020	ISSUED FOR BID
2	AL	05/22/2020	ISSUED FOR CONSTRUCTION

GRAND LAKE STREETSCAPE PHASE 3
STORM DRAIN PLAN AND PROFILE
PARK AVE - PITKIN ST TO HANCOCK ST

PREPARED FOR: TOWN OF GRAND LAKE, CO DATE SUBMITTED: MAY 2019

NV5
 BEYOND ENGINEERING
 5445 MARK DABLING BLVD, SUITE 100 COLORADO SPRINGS, CO 80918
 719.268.6553 TEL 303.539.9640 FAX
 WWW.NV5.COM



SHEET NUMBER
DRP-03

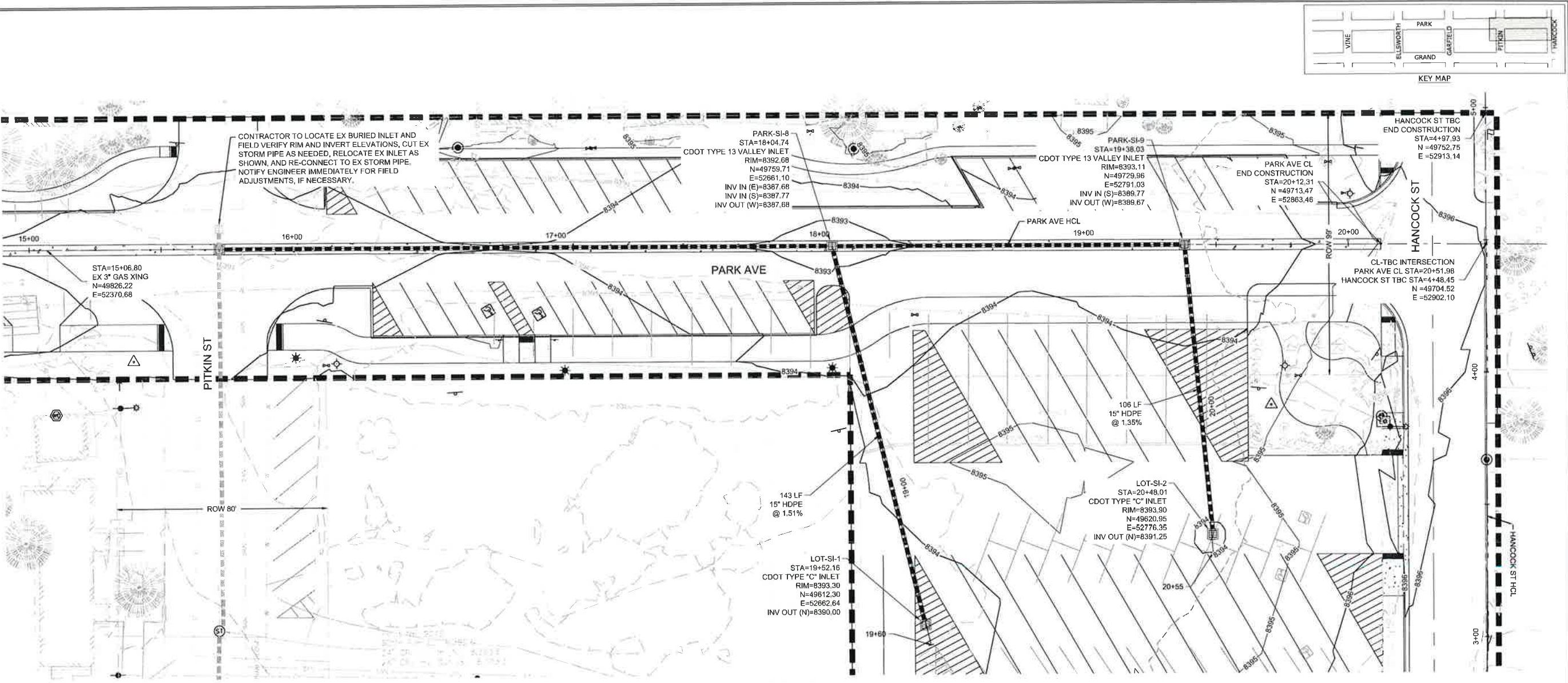
SCALE
 VERTICAL: AS NOTED
 HORIZONTAL: AS NOTED

JOB NUMBER
 223519-0000073



CAUTION
 The engineer preparing these plans will not be responsible for or liable for unauthorized changes to or omissions from these plans. All changes to the plans must be in writing and must be approved by the engineer of these plans.

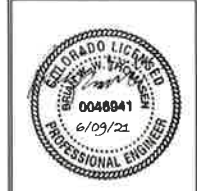
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NO.	BY	DATE	DESCRIPTION
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2	AL	07/27/2020	ISSUED FOR CONSTRUCTION

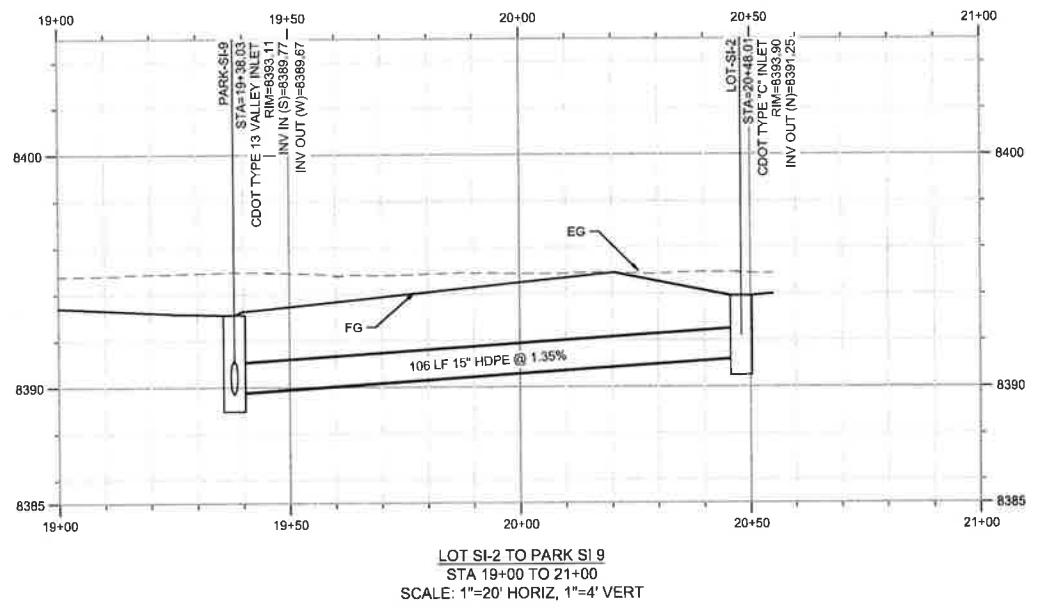
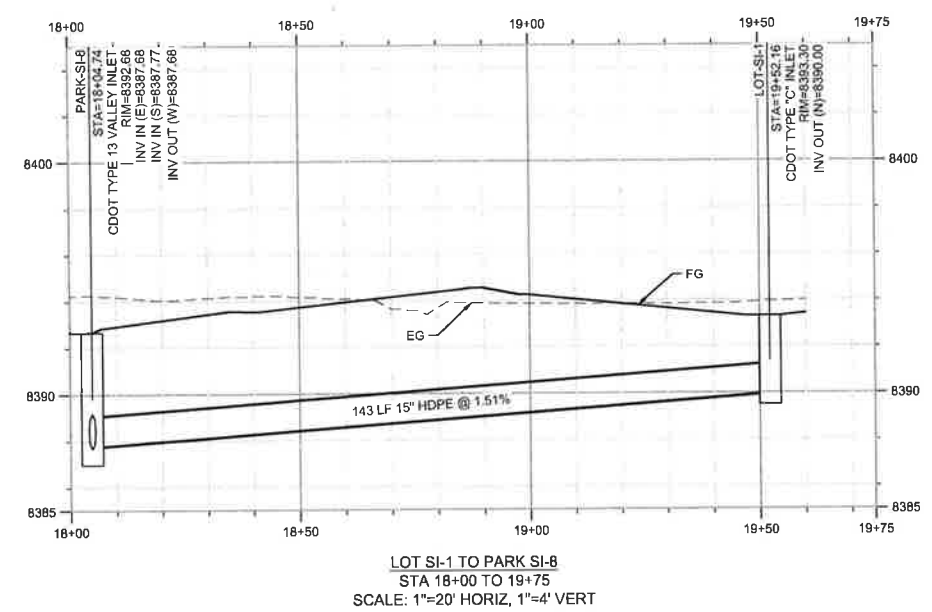
GRAND LAKE STREETScape PHASE 3
STORM DRAIN PLAN AND PROFILE
PARK AVE - PITKIN ST TO HANCOCK ST

PREPARED FOR: TOWN OF GRAND LAKE, CO DATE SUBMITTED: MAY 2019
 COLORADO SPRINGS, CO 80918
 WWW.NV5.COM



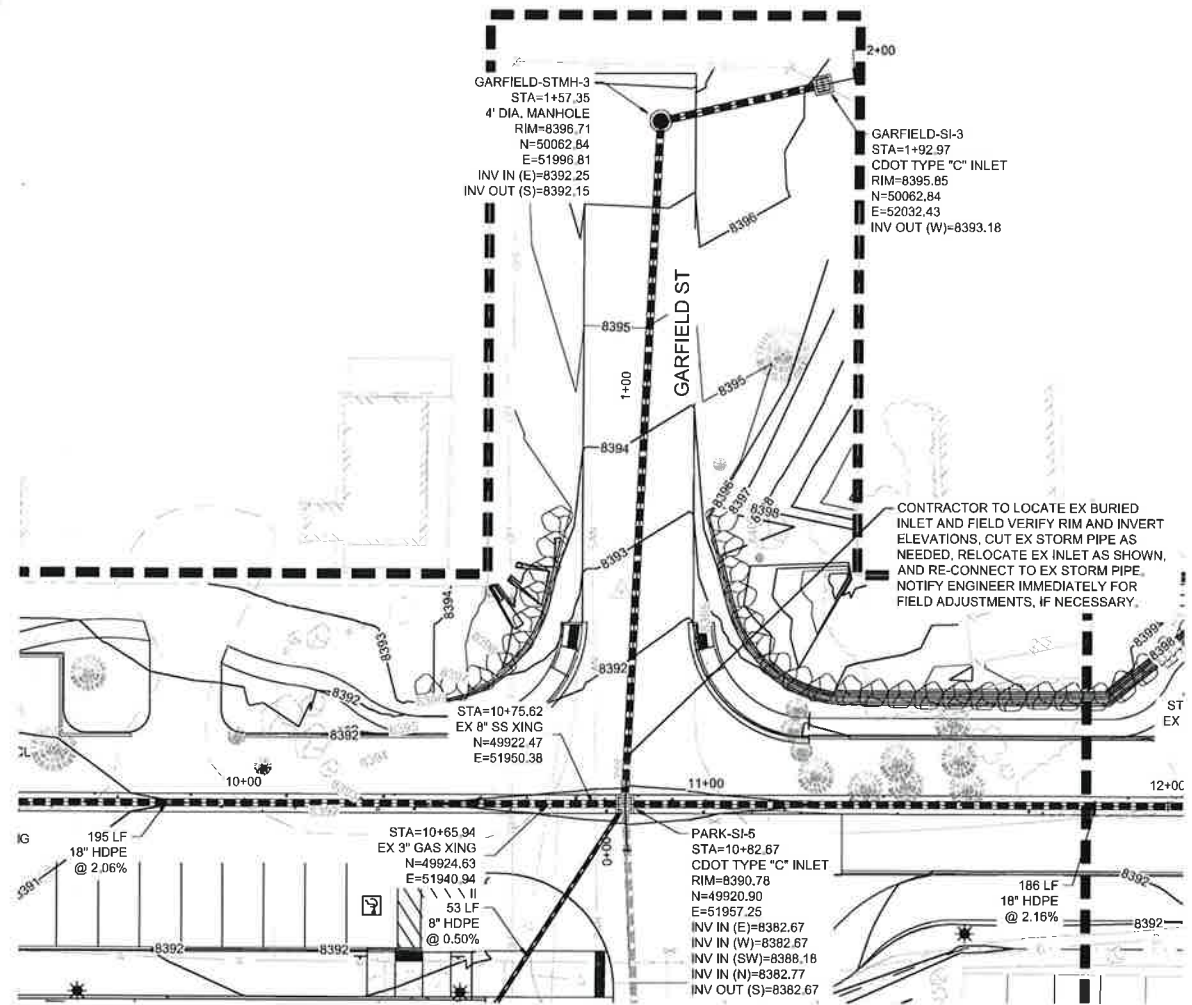
SHEET NUMBER: **DRP-04**
 SCALE: VERTICAL: AS NOTED, HORIZONTAL: AS NOTED
 JOB NUMBER: 223519-0000073

PARK AND HANCOCK PARKING LOT
 SCALE: 1" = 20'



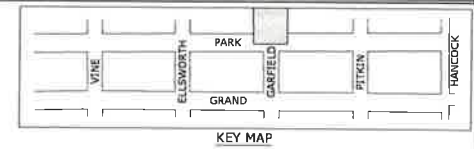
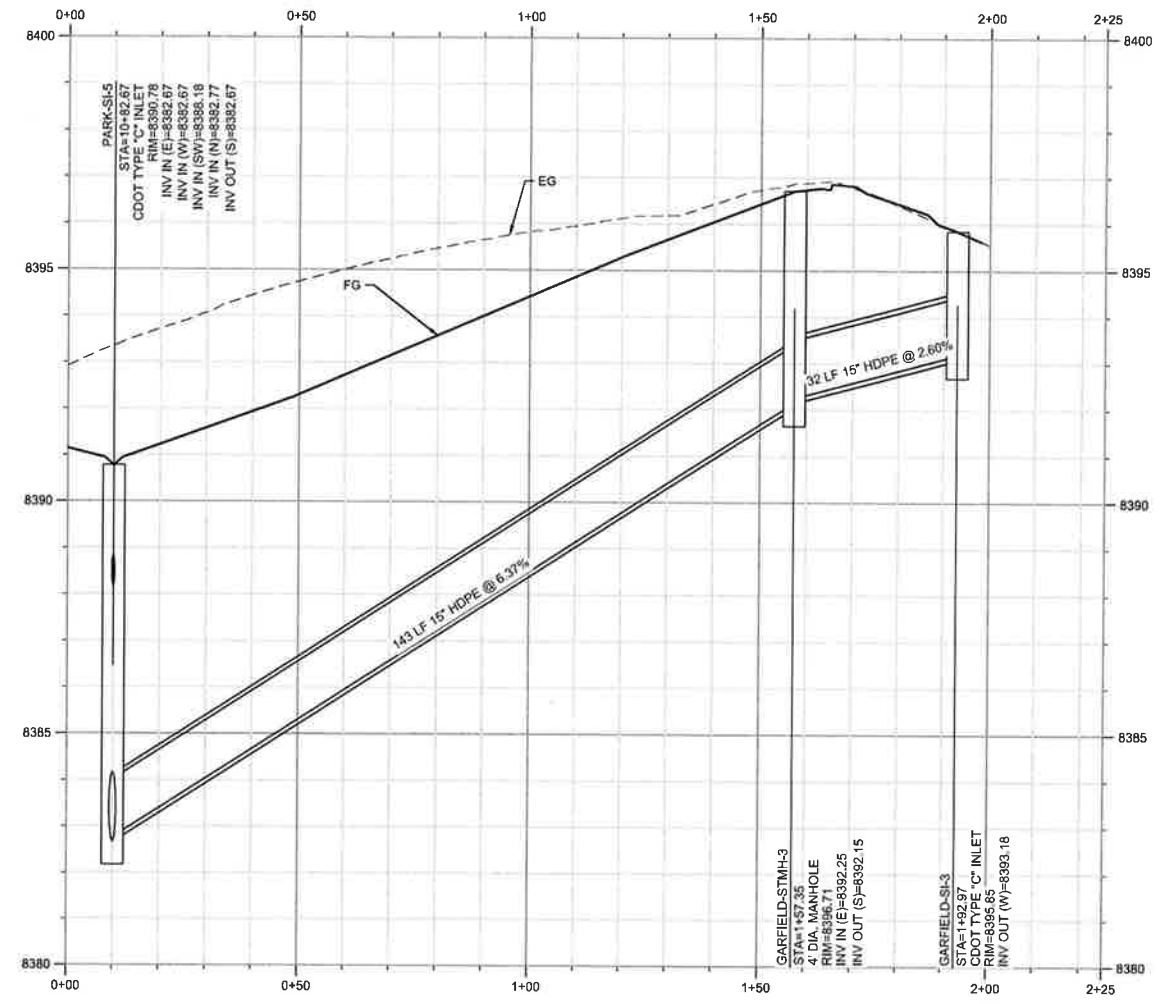
The engineer preparing these plans will not be responsible for or liable for unauthorized changes to or use of these plans. All changes to the plans or the drawings must be approved by the preparer of these plans.

DATE: 6/10/21 TIME: 5:12 AM DRAWING NAME: DRP-DWG
 SERVER: \\D:\FILE DESIGNER: N:\22319-0000073\CAD\CIVIL PLOTTED BY: N/A
 PATH:



GARFIELD ST
SCALE: 1" = 20'

CONTRACTOR TO LOCATE EX BURIED INLET AND FIELD VERIFY RIM AND INVERT ELEVATIONS. CUT EX STORM PIPE AS NEEDED, RELOCATE EX INLET AS SHOWN, AND RE-CONNECT TO EX STORM PIPE. NOTIFY ENGINEER IMMEDIATELY FOR FIELD ADJUSTMENTS, IF NECESSARY.



NO.	BY	DATE	DESCRIPTION
1	ALL	07/27/2019	ISSUED FOR CONSTRUCTION
2	ALL	06/22/2020	ISSUED FOR CONSTRUCTION

GRAND LAKE STREETSCAPE PHASE 3
STORM DRAIN PLAN AND PROFILE
GARFIELD ST

PREPARED FOR: TOWN OF GRAND LAKE, CO DATE SUBMITTED: MAY 2019
 WWW.NV5.COM
 5445 MARK DABLING BLVD., SUITE 100 COLORADO SPRINGS, CO 80918
 719.268.8893 TEL. 303.539.8640 FAX



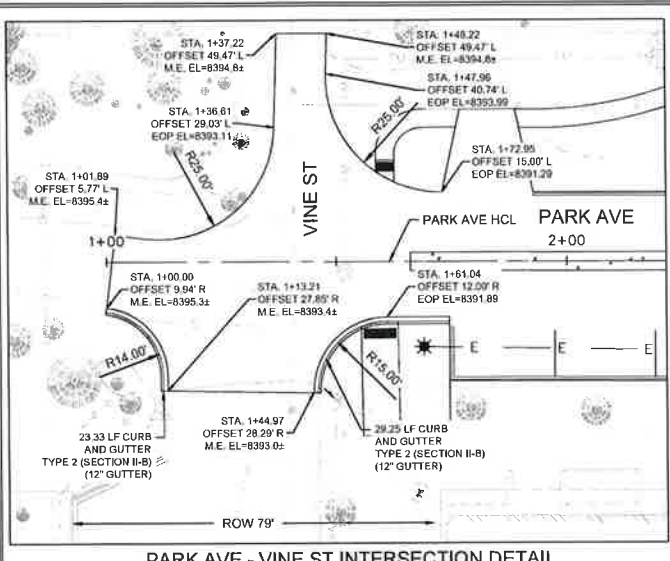
SHEET NUMBER
DRP-05
 SCALE
 VERTICAL: AS NOTED
 HORIZONTAL: AS NOTED
 JOB NUMBER
 223519-0000073



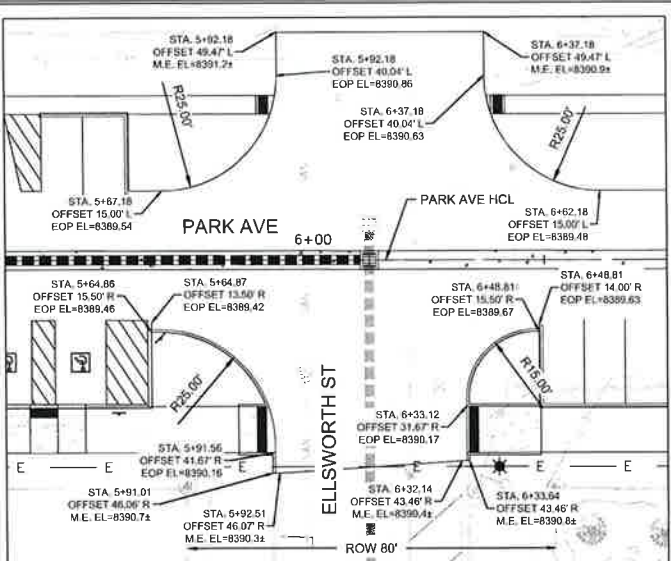
CALL 2 BUSINESS DAYS IN ADVANCE BEFORE YOU DIG. GRADE OR EXCAVATE FOR THE MARKING OF UNDERGROUND UTILITIES.

The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or use of these plans. The plans must be in writing and must be approved by the preparer of these plans.

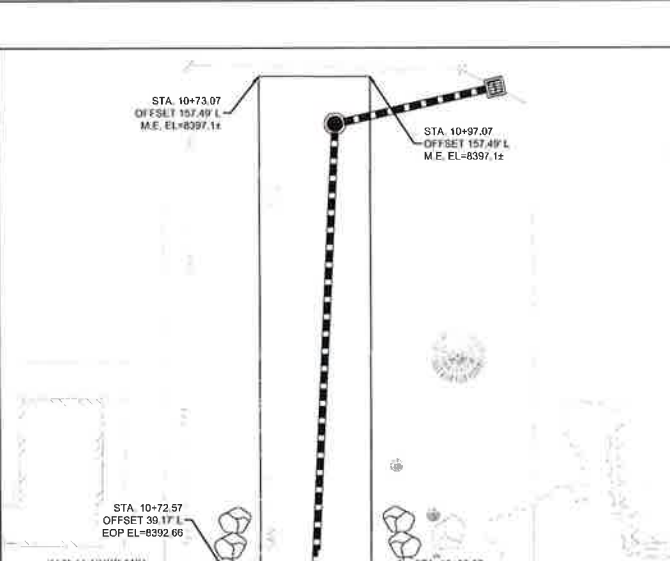
DATE: 6/15/21 TIME: 9:27 AM DRAWING NAME: 09A INT.DWG
 DESIGNED BY: N/A
 PLOTTED BY: N/A
 SERVER: D:\PROJBOX (NVS)\NVS\23519-0000073\CADD\CIVIL



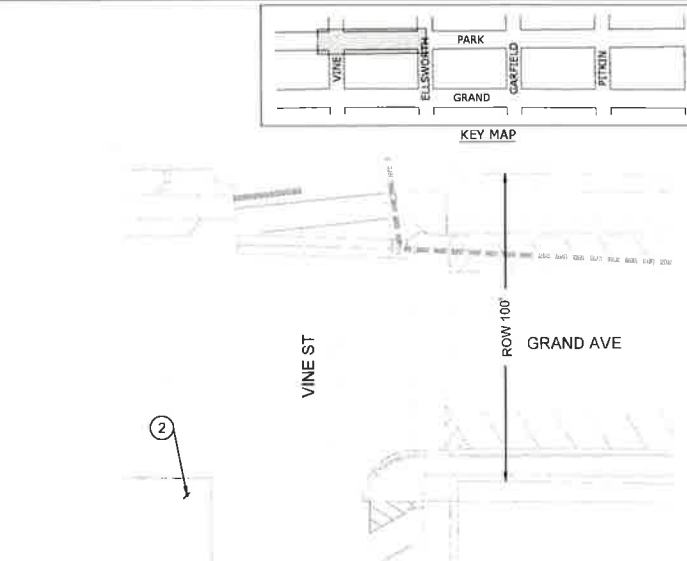
PARK AVE - VINE ST INTERSECTION DETAIL
 SCALE: 1" = 20"



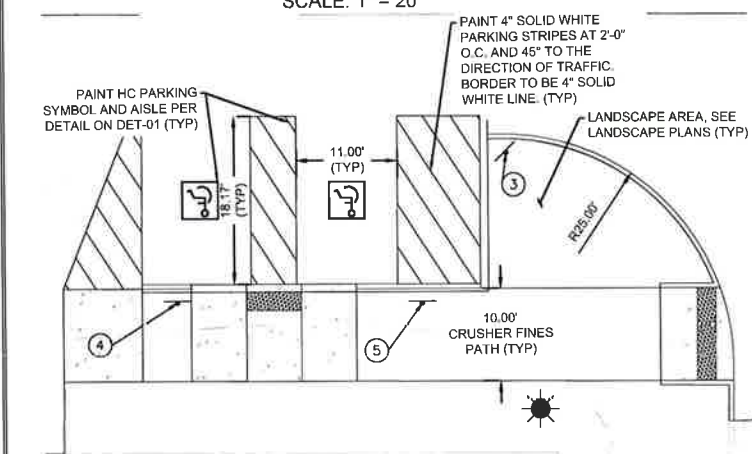
PARK AVE - ELLSWORTH ST INTERSECTION DETAIL
 SCALE: 1" = 20"



PARK AVE - GARFIELD ST INTERSECTION DETAIL
 SCALE: 1" = 20"

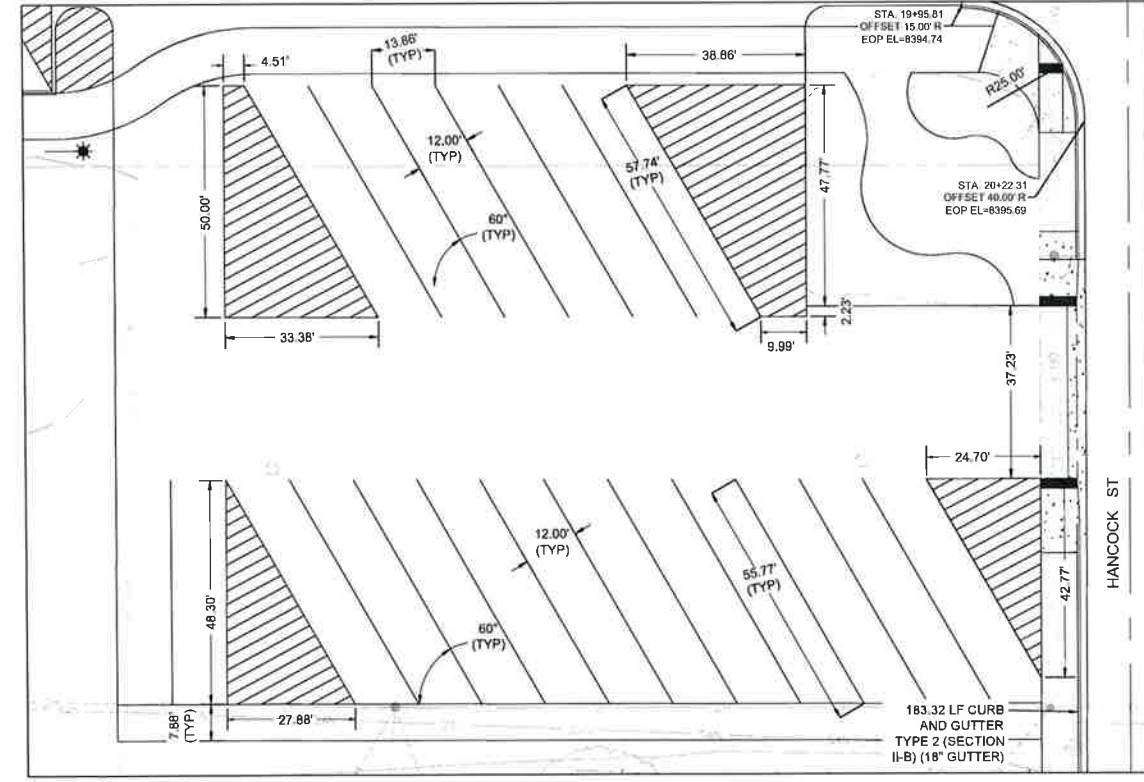


VINE ST AND GRAND AVE PARKING SIGN
 SCALE: 1" = 30"

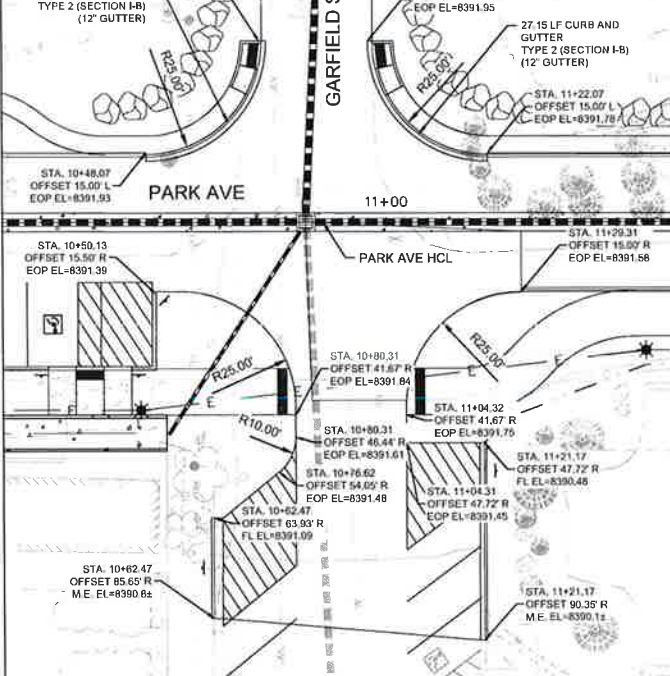


TYPICAL 90° PARKING DIMENSIONS - PARK AVE
 SCALE: 1" = 10"

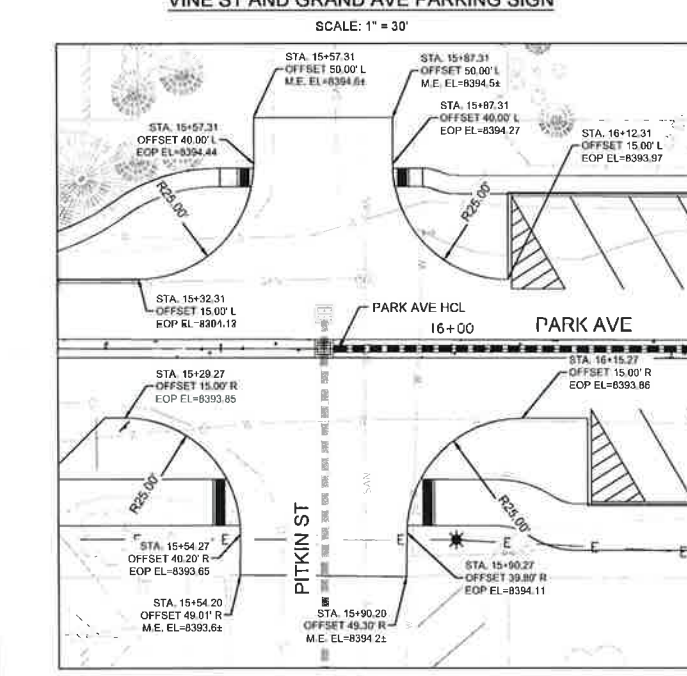
- LEGEND**
- ① "R.V. AND TRAILER PARKING" (RIGHT) SIGN
 - ② "R.V. AND TRAILER PARKING" (LEFT) SIGN
 - ③ "R.V. AND TRAILER PARKING ONLY AHEAD" SIGN
 - ④ ADA HANDICAP VAN ACCESSIBLE SIGN (SEE DET-01 FOR DETAIL)
 - ⑤ "MOTORCYCLE AND BICYCLE PARKING ONLY" SIGN



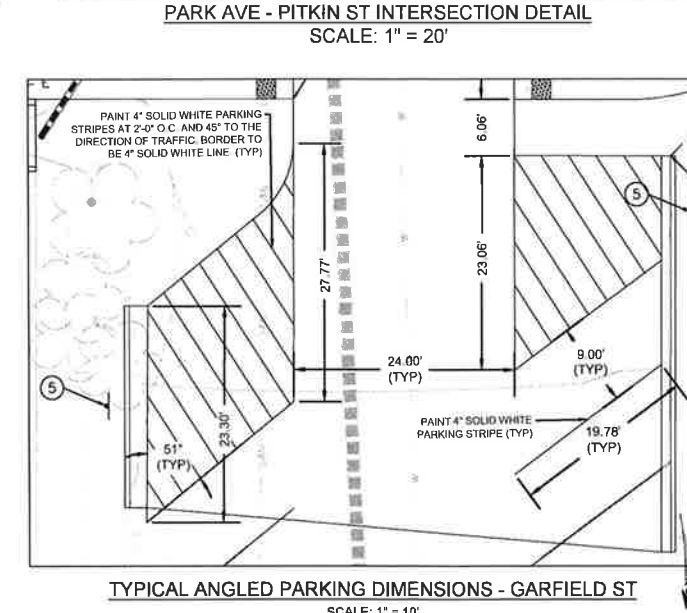
TYPICAL 60° PARKING DIMENSIONS
 EAST PARKING LOT AT HANCOCK ST
 SCALE: 1" = 20"



PARK AVE - PITKIN ST INTERSECTION DETAIL
 SCALE: 1" = 20"



PARK AVE - HANCOCK ST INTERSECTION DETAIL
 SCALE: 1" = 20"



TYPICAL ANGLED PARKING DIMENSIONS - GARFIELD ST
 SCALE: 1" = 10"



Know what's below.
 Call before you dig.
 CALL 3 BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE
 OR EXCAVATE FOR THE MARKING OF UNDERGROUND UTILITIES.

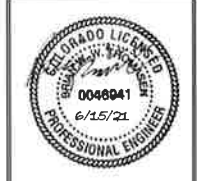
NO.	BY	DATE	REVISIONS
1	AL	06/22/2020	ISSUED FOR CONSTRUCTION
2	AL	07/23/2020	OWNER DIRECTED CHANGE

**GRAND LAKE STREETSCAPE PHASE 3
 ROADWAY INTERSECTION DETAILS**

PREPARED FOR: TOWN OF GRAND LAKE, CO
 WWW.NVS.COM



5445 MARK DABLING BLVD, SUITE 100
 COLORADO SPRINGS, CO 80918
 719.268.8563 TEL 303.539.9940 FAX



SHEET NUMBER
INT-01

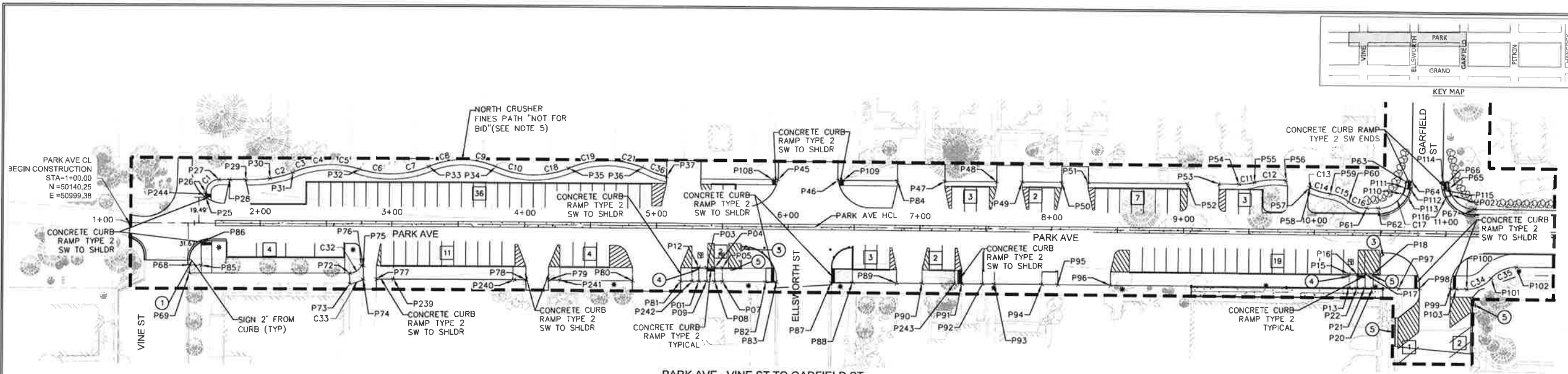
SCALE
 VERTICAL: AS NOTED
 HORIZONTAL: AS NOTED

JOB NUMBER
 223519-0000073

DATE SUBMITTED: MAY 2019

06-15-2021

DATE: 6/15/21 TIME: 9:28 AM DRAWING NAME: 08B SITE PLAN
 SERVER: DIV-FILE DESIGNER: EDC PROJ MGR: BWMT PLOTTED BY: N/A
 PATH: D:\PROJBOX\INVS\INVEN-PROJ\223519-0000073\CADD\CIVIL



PARK AVE - VINE ST TO GARFIELD ST
 SCALE: 1" = 40'

POINT NAME	DESCRIPTION	ELEVATION	NORTHING	EASTING
P01	BW	8390.73	50003.09	51411.69
P02	BW	8392.43	49945.02	51984.58
P03	FL	8390.17	50011.98	51419.88
P04	FL	8390.08	50010.64	51425.73
P05	FL	8389.99	50009.30	51431.58
P07	BW	8390.49	49999.07	51429.23
P08	BW	8390.57	50000.41	51423.38
P09	BW	8390.65	50001.75	51417.54
P12	FL	8390.26	50013.32	51414.03
P13	BW	8392.00	49892.75	51893.48
P15	FL	8391.89	49902.99	51895.83
P16	FL	8391.84	49901.65	51901.68
P17	FL	8391.78	49900.31	51907.52
P18	FL	8391.72	49898.97	51913.37
P20	BW	8391.83	49888.73	51911.03
P21	BW	8391.89	49890.07	51905.18
P22	BW	8391.95	49891.41	51899.33
P25	PI	8391.67	50146.16	51060.90
P26	PC	8391.66	50149.58	51061.69
P27	PT	8391.61	50157.09	51073.67
P28	PI	8391.58	50155.26	51081.68
P29	PI	8391.34	50152.58	51093.37
P30	PC	8390.86	50149.56	51111.37
P31	FL	8390.37	50150.13	51129.29
P32	FL	8390.54	50141.35	51179.53
P33	FL	8391.11	50131.85	51231.15
P34	FL	8390.75	50121.06	51279.78
P35	FL	8390.64	50107.75	51333.69
P36	FL	8391.06	50096.37	51388.31

POINT NAME	DESCRIPTION	ELEVATION	NORTHING	EASTING
P37	PI	8390.92	50085.70	51404.63
P45	PI	8390.71	50065.24	51486.73
P46	PI	8390.88	50055.01	51531.39
P47	PI	8390.85	50036.95	51610.23
P48	PI	8391.13	50028.20	51648.47
P49	PI	8391.30	50023.89	51667.27
P50	PI	8391.34	50017.14	51696.73
P51	PI	8391.31	50012.66	51716.33
P52	PI	8391.12	49995.87	51789.65
P53	PI	8391.61	49990.51	51813.05
P54	PC	8391.50	49987.07	51828.05
P55	FL	8391.79	49985.97	51839.86
P56	PI	8392.29	49982.24	51863.81
P57	PI	8392.28	49973.18	51880.45
P58	FL	8392.27	49972.73	51881.03
P59	FL	8392.17	49965.32	51894.46
P60	FL	8392.07	49956.49	51906.78
P61	PT	8391.97	49948.79	51919.05
P62	PC	8391.95	49946.81	51927.69
P63	BW	8393.17	49962.22	51952.25
P64	FL	8392.60	49961.22	51956.63
P65	BW	8392.46	49949.92	51983.90
P66	BW	8392.60	49954.85	51984.41
P67	PT	8391.80	49930.30	51999.82
P69	PI	8392.96	50093.18	51036.26
P72	PC	8389.84	50065.35	51154.96
P73	PI	8389.93	50058.65	51153.29
P74	PI	8390.00	50059.64	51164.13
P75	PI	8390.15	50069.52	51166.39

POINT NAME	DESCRIPTION	ELEVATION	NORTHING	EASTING
P76	PI	8389.99	50069.85	51164.96
P77	PI	8389.83	50057.54	51173.90
P78	PI	8389.63	50032.39	51283.71
P79	PI	8389.75	50028.56	51300.44
P80	PI	8390.34	50014.31	51362.67
P81	PI	8390.04	50006.19	51398.12
P82	TOC	8390.20	49991.68	51461.50
P83	PI	8390.16	49989.92	51469.17
P84	PI	8390.35	50044.99	51575.14
P85	PI	8392.19	50096.96	51046.57
P86	FL	8392.08	50114.14	51050.22
P87	PI	8390.33	49980.63	51509.76
P88	TOC	8390.01	49977.06	51525.36
P89	PI	8390.30	49969.55	51558.12
P90	PI	8390.52	49965.23	51576.97
P91	PI	8391.57	49958.49	51606.43
P92	PI	8391.58	49955.01	51621.61
P93	PI	8391.45	49953.00	51630.38
P94	PI	8391.73	49944.96	51665.50
P95	PI	8391.38	49942.25	51677.32
P96	PI	8391.02	49933.29	51716.46
P97	TOC	8391.88	49884.36	51930.12
P98	PI	8391.84	49880.81	51945.65
P99	PI	8391.75	49875.45	51969.05
P100	PC	8391.85	49872.70	51981.03
P101	FL	8392.03	49876.80	52001.24
P102	PT	8392.21	49880.89	52021.44
P103	TOC	8391.79	49874.46	51973.36
P108	TOC	8390.71	50066.14	51482.78

POINT NAME	DESCRIPTION	ELEVATION	NORTHING	EASTING
P109	TOC	8390.83	50054.12	51535.28
P110	BW	8392.77	49953.44	51947.81
P111	BW	8392.94	49957.56	51950.56
P112	FL	8392.40	49955.53	51954.58
P113	FL	8392.19	49950.50	51951.23
P115	FL	8392.55	49949.85	51979.40
P116	FL	8391.96	49943.86	51980.23
P239	TOC	8390.90	50054.64	51186.58
P240	TOC	8390.33	50034.38	51275.02
P241	TOC	8390.40	50026.57	51309.14
P242	TOC	8390.76	50004.20	51406.81
P243	TOC	8391.10	49959.74	51600.96
P244	TOC	8391.66	50148.60	51061.46

- NOTES:
1. POINT AND CURVE LABELS ARE FOR BACK OF CRUSHER FINES PATH UNLESS OTHERWISE NOTED.
 2. REFER TO TYP-01 FOR CRUSHER FINES PATH DETAIL.
 3. REFER TO PNP-01 TO PNP-04 AND INT-01 SHEETS FOR HORIZONTAL CONTROL INFORMATION.
 4. PARKING SIGNAGE SHALL HAVE A GREEN LEGEND AND BORDER ON A WHITE BACKGROUND PER U.S. DEPARTMENT OF TRANSPORTATION'S MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
 5. NORTH CRUSHER FINES PATH ON NORTH SIDE OF PARK AVE. IS NOT FOR BID IN THIS CONSTRUCTION PHASE.

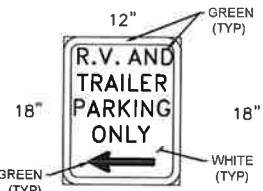
CURVE #	LENGTH [FT]	RADIUS [FT]	DELTA [°]
C1	15.71	10.00	90.00
C2	18.09	88.27	11.74
C3	14.66	73.00	11.51
C4	11.05	73.00	8.68
C5	26.05	73.00	20.44
C6	26.78	77.00	19.93
C7	26.78	77.00	19.93
C8	26.07	62.98	23.72
C9	25.23	62.99	22.95
C10	29.23	70.00	23.92
C11	11.89	45.00	15.14
C12	24.40	63.00	22.19
C13	0.73	63.00	0.66
C14	15.40	49.00	18.01
C15	15.36	28.00	31.42
C16	14.75	22.00	38.42
C17	32.20	20.49	90.04
C18	29.23	70.00	23.92
C19	29.09	73.28	22.74
C21	29.55	73.05	23.18
C32	11.17	10.00	63.97
C33	11.06	17.88	35.45
C34	21.25	25.00	48.70
C35	21.25	25.00	48.70
C36	16.77	69.82	13.77

LEGEND

- ① "R.V. AND TRAILER PARKING" (RIGHT) SIGN
- ② "R.V. AND TRAILER PARKING" (LEFT) SIGN
- ③ "R.V. AND TRAILER PARKING ONLY AHEAD" SIGN
- ④ ADA HANDICAP VAN ACCESSIBLE SIGN (SEE DET-01 FOR DETAIL)
- ⑤ "MOTORCYCLE AND BICYCLE PARKING ONLY" SIGN
- # NUMBER OF PARKING SPOTS PER BAY



R.V. AND TRAILER (RIGHT) SIGN DETAIL



R.V. AND TRAILER (LEFT) SIGN DETAIL

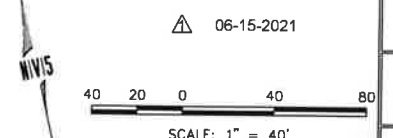


R.V. AND TRAILER SIGN DETAIL



MOTORCYCLE AND BICYCLE SIGN DETAIL

PARKING STALLS	
STANDARD	93
ADA HANDICAP	3
MOTORCYCLE	3
TOTAL	99



SHEET NUMBER
SP-01
 SCALE
 VERTICAL: AS NOTED
 HORIZONTAL: AS NOTED
 JOB NUMBER
 223519-0000073

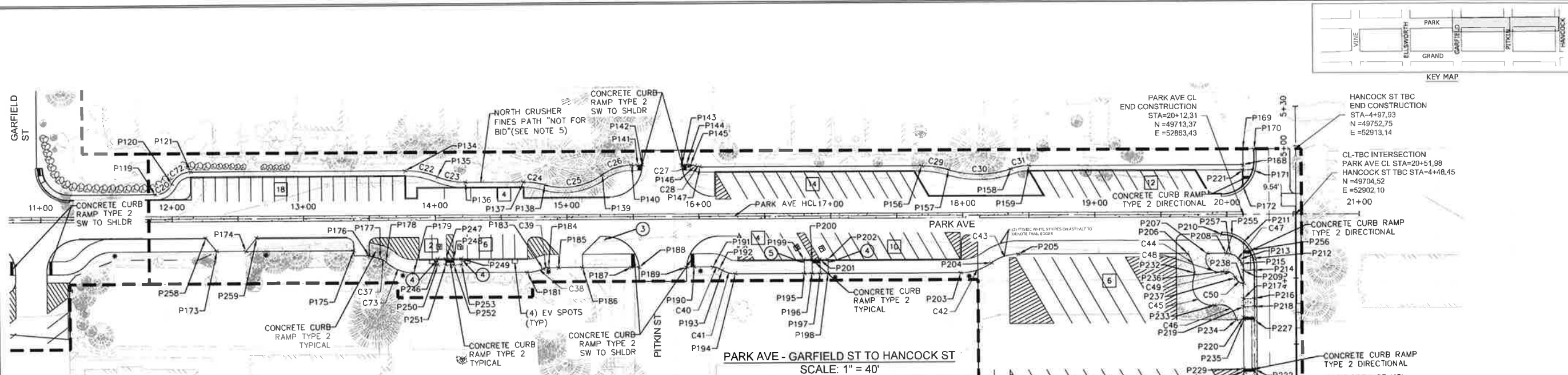
GRAND LAKE STREETSCAPE PHASE 3

SITE PLAN

PREPARED FOR: TOWN OF GRAND LAKE, CO DATE SUBMITTED: MAY 2019

5445 MARK DABLING BLVD, SUITE 100 COLORADO SPRINGS, CO 80918
 719.268.8563 TEL. 303.529.9840 FAX
 WWW.INVS.COM

DATE: 6/15/21 TIME: 9:28 AM DRAWING NAME: OBB SITE.DWG
 SERVER: D:\PROJ\2021\210519-000073\0000\01\DWG\OBB SITE.DWG
 DESIGNER: EDC PROJ. MGR: BMMT PLOTTED BY: N/A
 D:\PROJ\2021\210519-000073\0000\01\DWG\OBB SITE.DWG



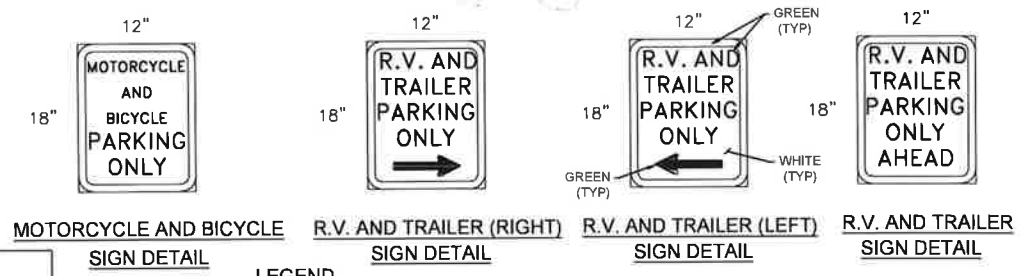
POINT NAME	DESCRIPTION	ELEVATION	NORTHING	EASTING
P119	PC	8392.36	49915.72	52063.47
P120	PRC	8392.55	49920.64	52077.54
P121	PT	8392.68	49926.26	52093.62
P134	PC	8393.24	49889.87	52252.50
P135	PRC	8393.51	49879.76	52275.13
P136	PT	8393.95	49870.92	52294.94
P137	PL	8394.70	49861.01	52338.22
P138	PRC	8394.64	49855.11	52353.55
P139	PRC	8394.24	49852.73	52397.41
P140	PT	8394.39	49854.77	52420.70
P141	TOC	8394.42	49853.74	52425.20
P142	PI	8394.41	49852.96	52428.60
P143	PI	8394.27	49846.26	52457.88
P144	TOC	8394.28	49845.48	52461.28
P145	PC	8394.33	49844.81	52464.21
P146	PRC	8394.38	49843.23	52467.74
P147	PT	8394.44	49841.65	52471.28
P156	PC	8394.23	49804.19	52634.84
P157	PRC	8394.30	49796.57	52654.14
P158	PRC	8394.48	49786.65	52699.96
P159	PT	8394.47	49786.03	52714.16
P168	PI	8396.73	49749.93	52871.81
P169	PI	8396.24	49761.60	52874.48
P170	FL	8396.36	49759.70	52882.76
P171	FL	8396.16	49744.32	52878.36
P172	FL	8395.66	49734.06	52868.17
P173	PI	8391.47	49863.14	52098.95
P174	PI	8391.54	49858.23	52120.40
P175	PI	8392.09	49839.82	52200.77
P176	PI	8392.18	49833.46	52211.28
P177	PC	8392.47	49829.49	52218.75
P178	PRC	8392.65	49826.10	52222.44
P179	PT	8393.25	49813.20	52240.88
P181	PC	8394.82	49793.88	52325.22
P183	PRC	8394.45	49793.68	52337.48

POINT NAME	DESCRIPTION	ELEVATION	NORTHING	EASTING
P184	PT	8394.37	49793.61	52341.59
P185	PI	8394.13	49791.90	52349.05
P186	PI	8393.96	49787.88	52366.59
P187	TOC	8393.70	49779.62	52402.64
P188	PI	8393.66	49778.32	52408.35
P189	PI	8394.09	49770.26	52443.56
P190	TOC	8394.14	49768.04	52449.26
P191	PC	8394.26	49765.76	52463.18
P192	PT	8394.38	49763.34	52467.75
P193	PC	8394.44	49761.65	52469.57
P194	PT	8394.69	49756.81	52478.72
P195	BW	8394.91	49745.19	52529.48
P196	BW	8394.88	49743.86	52535.33
P197	BW	8394.85	49742.52	52541.18
P198	BW	8394.63	49741.18	52547.03
P199	FL	8394.69	49755.46	52531.83
P200	FL	8394.66	49754.12	52537.68
P201	FL	8394.63	49752.78	52543.53
P202	FL	8394.60	49751.44	52549.38
P203	PC	8393.69	49718.74	52645.12
P204	PRC	8393.63	49720.83	52669.47
P205	PT	8393.82	49722.65	52690.77
P206	PI	8394.10	49694.02	52815.80
P207	PI	8394.74	49690.75	52830.10
P208	PC	8395.26	49687.52	52844.18
P209	PT	8395.96	49671.95	52853.95
P210	FL	8394.74	49702.44	52844.00
P211	FL	8395.43	49692.69	52858.70
P212	FL	8395.53	49679.06	52863.40
P213	BW	8395.60	49680.79	52852.84
P214	FL	8395.30	49670.05	52862.23
P215	BW	8395.82	49677.28	52854.05
P216	FL	8395.42	49649.25	52857.47
P217	BW	8396.08	49651.14	52849.19
P218	FL	8395.46	49643.40	52856.13

POINT NAME	DESCRIPTION	ELEVATION	NORTHING	EASTING
P219	BW	8396.12	49645.29	52847.85
P220	BW	8396.23	49637.45	52846.06
P221	BW	8396.65	49746.03	52870.91
P222	FL	8395.96	49597.42	52845.09
P227	FL	8395.74	49633.72	52853.40
P229	BW	8396.12	49599.21	52837.29
P230	BW	8396.18	49597.26	52836.84
P231	FL	8396.00	49595.47	52844.64
P232	PI	8394.54	49678.35	52817.34
P233	PRC	8395.50	49651.09	52826.88
P234	PI	8396.10	49636.82	52840.07
P235	BW	8396.26	49635.50	52845.61
P236	PRC	8395.31	49674.57	52838.47
P237	PRC	8395.79	49667.93	52846.76
P238	PI	8396.02	49662.28	52851.74
P246	FL	8393.32	49819.32	52261.20
P247	FL	8393.44	49817.98	52267.05
P248	FL	8393.56	49816.64	52272.90
P249	FL	8393.68	49815.30	52278.74
P250	BW	8393.70	49814.93	52260.19
P251	BW	8393.82	49813.59	52266.04
P252	BW	8393.94	49812.25	52271.89
P253	BW	8394.06	49810.91	52277.74
P255	FL	8395.00	49699.42	52851.42
P256	FL	8395.48	49685.70	52862.23
P257	BW	8395.57	49686.54	52846.96
P258	PI	8391.44	49874.73	52093.12
P259	PI	8391.14	49866.13	52130.69

CURVE #	LENGTH [FT]	RADIUS [FT]	DELTA [°]
C20	15.72	14.00	64.32
C22	24.94	64.00	22.33
C23	21.83	56.00	22.33
C24	16.47	58.00	16.27
C25	45.48	50.00	52.11
C26	23.77	38.00	35.84
C27	3.90	10.00	22.33
C28	3.90	10.00	22.33
C29	20.30	69.00	16.86
C30	48.19	76.04	36.31
C31	13.04	39.79	18.77
C37	5.06	10.00	29.01
C38	12.35	30.00	23.59
C39	4.14	10.00	23.74
C40	5.24	10.00	30.00
C41	10.48	20.00	30.01
C42	24.84	40.00	35.58
C43	21.73	35.00	35.58
C44	16.02	25.00	36.72
C45	27.95	15.00	106.74
C46	19.68	12.00	93.97
C47	20.42	13.00	90.00
C48	22.89	10.00	131.17
C49	11.63	8.00	83.26
C50	7.84	7.00	64.17
C72	17.96	16.00	64.32
C73	23.07	30.00	44.07

PARKING STALLS	
STANDARD	56
ADA HANDICAP	4
MOTORCYCLE	1
RV	19
EV	8
TOTAL	90



- LEGEND**
- ① "R.V. AND TRAILER PARKING" (RIGHT) SIGN
 - ② "R.V. AND TRAILER PARKING" (LEFT) SIGN
 - ③ "R.V. AND TRAILER PARKING ONLY AHEAD" SIGN
 - ④ ADA HANDICAP VAN ACCESSIBLE SIGN (SEE DET-01 FOR DETAIL)
 - ⑤ "MOTORCYCLE AND BICYCLE PARKING ONLY" SIGN
 - # NUMBER OF PARKING SPOTS PER BAY
- SW TO SHLDR = SIDEWALK TO SHOULDER

- NOTES:**
- POINT AND CURVE LABELS ARE FOR BACK OF CRUSHER FINES PATH UNLESS OTHERWISE NOTED.
 - REFER TO TYP-01 FOR CRUSHER FINES PATH DETAIL.
 - REFER TO PNP-01 TO PNP-04 AND INT-01 SHEETS FOR HORIZONTAL CONTROL INFORMATION.
 - PARKING SIGNAGE SHALL HAVE A GREEN LEGEND AND BORDER ON A WHITE BACKGROUND PER U.S. DEPARTMENT OF TRANSPORTATION'S MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
 - NORTH CRUSHER FINES PATH ON NORTH SIDE OF PARK AVE. IS NOT FOR BID IN THIS CONSTRUCTION PHASE.

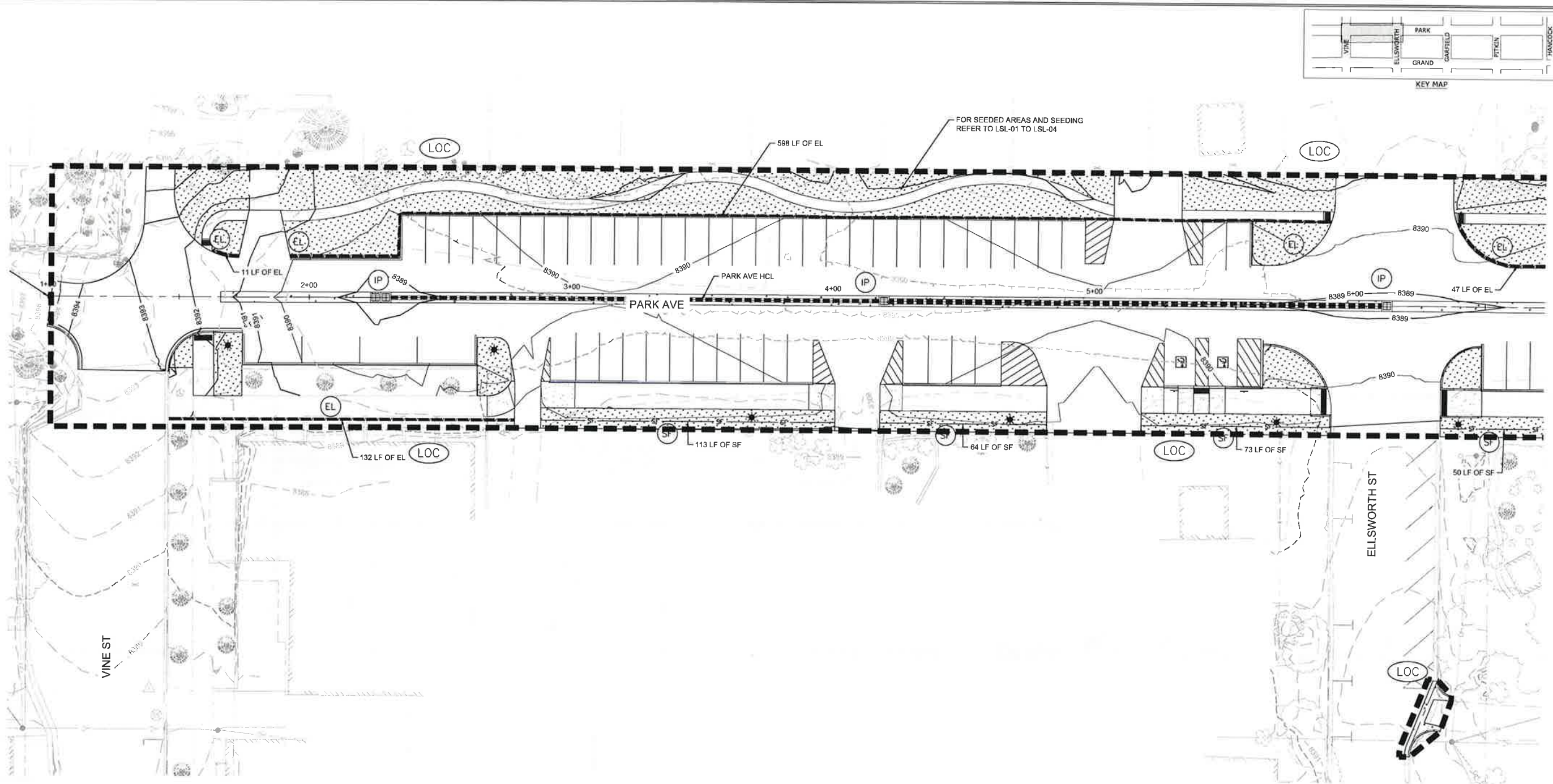


GRAND LAKE STREETScape PHASE 3
 SITE PLAN
 PREPARED FOR: TOWN OF GRAND LAKE, CO
 DATE SUBMITTED: MAY 2019
 COLORADO SPRINGS, CO 80918
 WWW.NVS.COM
 5645 MARK DABLING BLVD, SUITE 100
 719.288.8663 TEL. 303.539.9640 FAX

SHEET NUMBER
SP-02
 SCALE
 VERTICAL: AS NOTED
 HORIZONTAL: AS NOTED
 JOB NUMBER
 223519-000073

06-15-2021

DATE: 6/15/21 TIME: 9:28 AM DRAWING NAME: 10 EROSION
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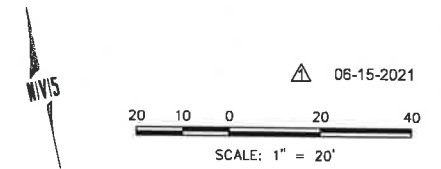


- EROSION CONTROL NOTES:**
1. PROTECT ALL EXISTING VEGETATION PER DIRECTION OF THE PROJECT ENGINEER.
 2. CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING POSSIBLE STAGING AREAS AND COORDINATING WITH PROPERTY OWNERS AND PROJECT ENGINEER. IF ANY STAGING OR OTHER CONSTRUCTION ACTIVITY CAUSES THE TOTAL DISTURBED AREA TO EXCEED ONE ACRE, CONTRACTOR WILL BE RESPONSIBLE FOR OBTAINING REQUIRED PERMITS.
 3. THE CONTRACTOR SHALL IDENTIFY SUITABLE LOCATIONS FOR VEHICLE TRACKING CONTROL, STABILIZED STAGING AREA, CONCRETE WASHOUT, AND STOCKPILE PRIOR TO CONSTRUCTION. THE PROPOSED LOCATIONS SHALL BE APPROVED BY THE TOWN ENGINEER PRIOR TO START OF CONSTRUCTION. NO TEMPORARY EASEMENTS WILL BE PROVIDED FOR THESE LOCATIONS AND, IF NECESSARY, THE CONTRACTOR SHALL ACQUIRE SUCH EASEMENTS OR AGREEMENTS AT NO COST TO THE PROJECT.

- EROSION CONTROL BMP MAINTENANCE NOTES:**
1. THE CONSTRUCTION ENTRANCE AND SILT FENCE SHALL BE INSTALLED AS A FIRST STEP IN THE GRADING PROCESS.
 2. THE SILT FENCE SHOWN ON THE EROSION CONTROL PLANS SHALL BE SECURED IN ACCORDANCE WITH CDOT STANDARDS AND SPECIFICATIONS. THE SILT FENCE SHALL BE INSTALLED PRIOR TO OVERLOT GRADING.
 3. THE CONSTRUCTION SUPERINTENDENT SHALL HAVE THE OVERALL RESPONSIBILITY FOR PLAN IMPLEMENTATION. THEY SHALL ALSO BE RESPONSIBLE FOR SEEING THAT APPROPRIATE CONSTRUCTION WORKERS AND SUBCONTRACTORS ARE AWARE OF THE PROVISIONS OF THE PLAN.
 4. CLEAN-UP PROCEDURE:
 - 4.1. TRANSPORT TRASH AND DEBRIS AND UNACCEPTABLE SOIL MATERIALS FROM THE PROJECT SITE AND DISPOSE OF LEGALLY.
 - 4.2. REMOVE ALL TEMPORARY SHORING, BRACING, EROSION CONTROL, AND OTHER PROTECTION DEVICES WHEN NO LONGER IN USE.

DESCRIPTION	SYMBOL
LIMITS OF CONSTRUCTION	LOC
CONSTRUCTION FENCE	CF
SILT FENCE	SF
EROSION LOG	EL
INLET PROTECTION	IP
ROCK SOCK	RS
TEMPORARY SEEDING AND MULCHING	[Pattern]
SOIL RETENTION BLANKET	[Pattern]

PARK AVE - VINE ST TO ELLSWORTH ST
 SCALE: 1" = 20'

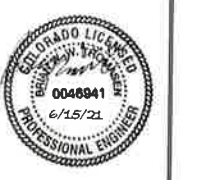


NO.	REV.	DATE	BY	DESCRIPTION
1	A.L.	02/07/2020	LSL	ISSUED FOR CONSTRUCTION
2	A.L.	06/22/2021	LSL	ISSUED FOR CONSTRUCTION

NO. 11/11/21

GRAND LAKE STREETScape PHASE 3
EROSION CONTROL PLAN
PARK AVE - VINE ST TO ELLSWORTH ST
 PREPARED FOR: TOWN OF GRAND LAKE, CO DATE SUBMITTED: MAY 2019

NV5
 BEYOND ENGINEERING
 5445 MARK DABLING BLVD, SUITE 100 COLORADO SPRINGS, CO 80918
 719.268.8563 TEL 303.539.9840 FAX
 WWW.NV5.COM

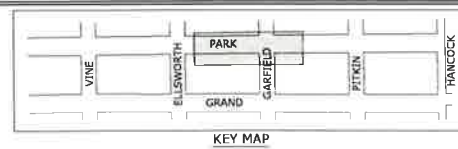
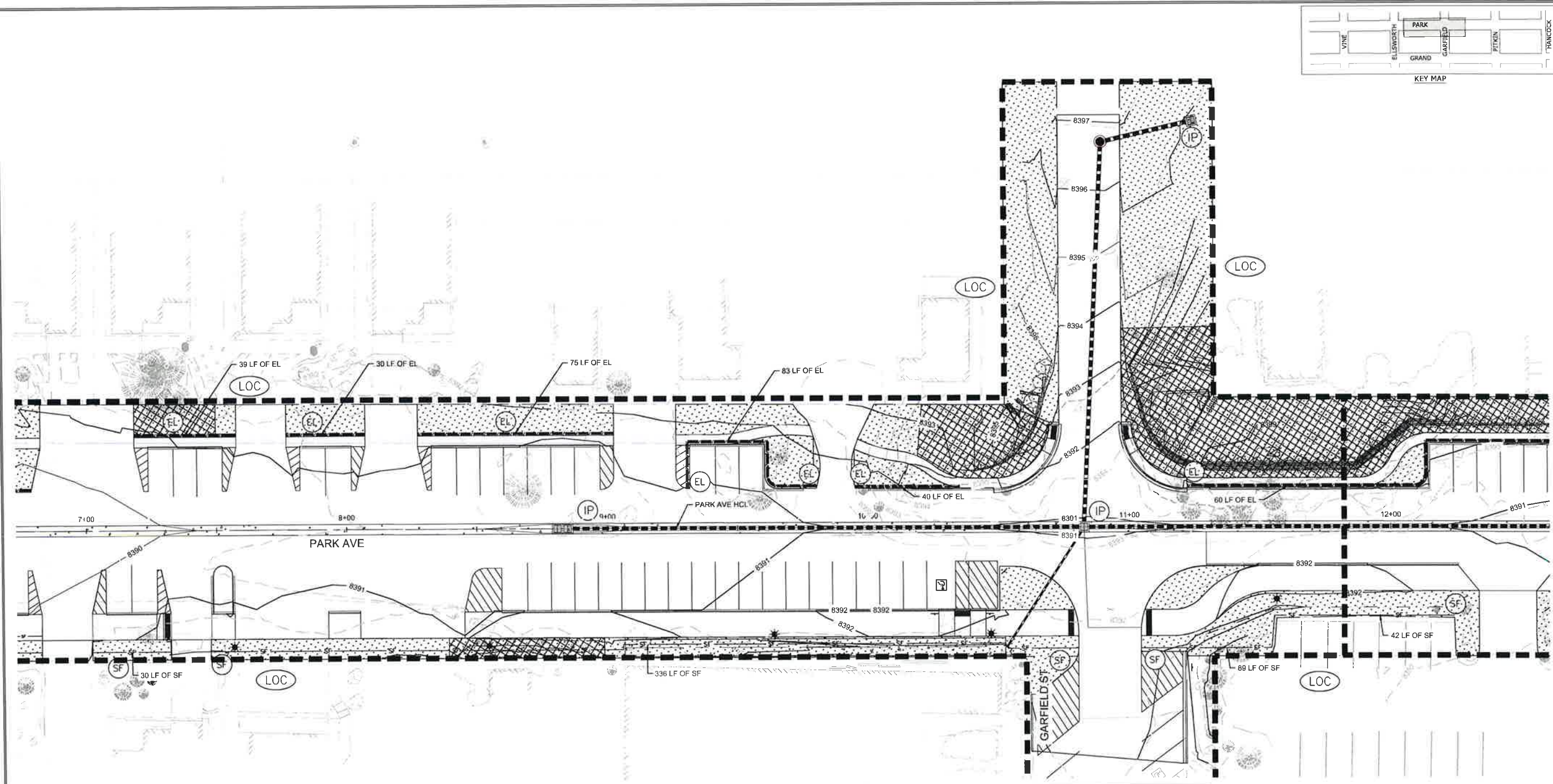


SHEET NUMBER
ERO-01
 SCALE
 VERTICAL: AS NOTED
 HORIZONTAL: AS NOTED
 JOB NUMBER
 223519-0000073



The engineer preparing these plans will not be responsible for or liable for any unauthorized changes to or uses of these plans and must be approved by the engineer of these plans.

DATE: 6/15/21 TIME: 9:29 AM DRAWING NAME: 10. EROSION CONTROL
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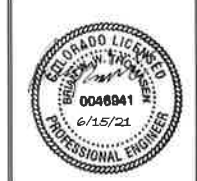
NO.	BY	DATE	REVISIONS
1	ALL	07/27/2020	ISSUED FOR CONSTRUCTION
2	ALL	06/22/2021	ISSUED FOR CONSTRUCTION

CAUTION
 The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans. Any changes to these plans must be approved by the preparer of these plans.

GRAND LAKE STREETSCAPE PHASE 3
EROSION CONTROL PLAN
PARK AVE - GARFIELD ST

PREPARED FOR: TOWN OF GRAND LAKE, CO DATE SUBMITTED: MAY 2019

NV5
 BEYOND ENGINEERING
 5445 MARK DABLING BLVD, SUITE 100 COLORADO SPRINGS, CO 80916
 719.268.8563 TEL 303.539.8840 FAX
 WWW.NV5.COM



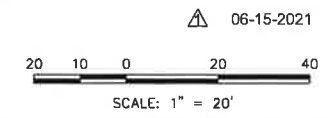
SHEET NUMBER
ERO-02
 SCALE
 VERTICAL: AS NOTED
 HORIZONTAL: AS NOTED
 JOB NUMBER
 223519-0000073

- EROSION CONTROL NOTES:**
- PROTECT ALL EXISTING VEGETATION PER DIRECTION OF THE PROJECT ENGINEER.
 - CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING POSSIBLE STAGING AREAS AND COORDINATING WITH PROPERTY OWNERS AND PROJECT ENGINEER. IF ANY STAGING OR OTHER CONSTRUCTION ACTIVITY CAUSES THE TOTAL DISTURBED AREA TO EXCEED ONE ACRE, CONTRACTOR WILL BE RESPONSIBLE FOR OBTAINING REQUIRED PERMITS.
 - THE CONTRACTOR SHALL IDENTIFY SUITABLE LOCATIONS FOR VEHICLE TRACKING CONTROL, STABILIZED STAGING AREA, CONCRETE WASHOUT, AND STOCKPILE PRIOR TO CONSTRUCTION. THE PROPOSED LOCATIONS SHALL BE APPROVED BY THE TOWN ENGINEER PRIOR TO START OF CONSTRUCTION. NO TEMPORARY EASEMENTS WILL BE PROVIDED FOR THESE LOCATIONS AND, IF NECESSARY, THE CONTRACTOR SHALL ACQUIRE SUCH EASEMENTS OR AGREEMENTS AT NO COST TO THE PROJECT.

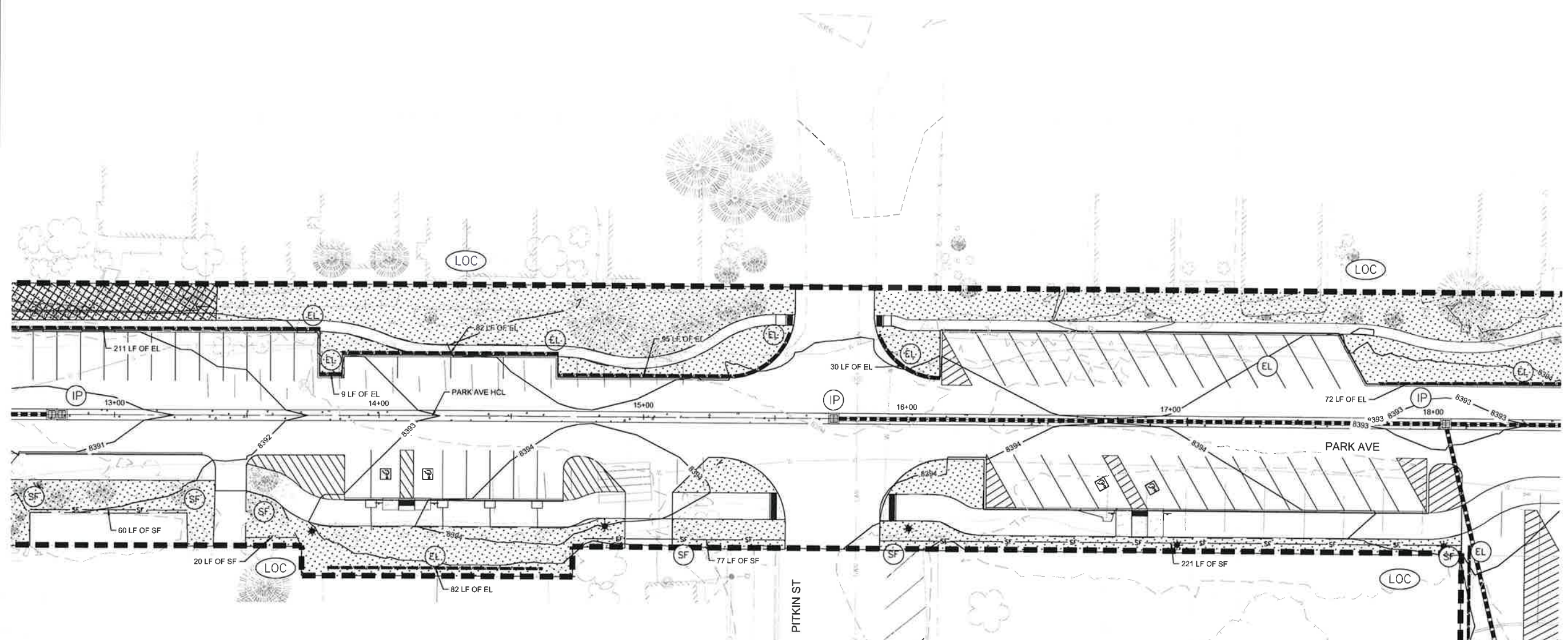
- EROSION CONTROL BMP MAINTENANCE NOTES:**
- THE CONSTRUCTION ENTRANCE AND SILT FENCE SHALL BE INSTALLED AS A FIRST STEP IN THE GRADING PROCESS.
 - THE SILT FENCE SHOWN ON THE EROSION CONTROL PLANS SHALL BE SECURED IN ACCORDANCE WITH CDOT STANDARDS AND SPECIFICATIONS. THE SILT FENCE SHALL BE INSTALLED PRIOR TO OVERLOT GRADING.
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DESCRIPTION	SYMBOL
LIMITS OF CONSTRUCTION	LOC
CONSTRUCTION FENCE	CF
SILT FENCE	SF
EROSION LOG	EL
INLET PROTECTION	IP
ROCK SOCK	RS
TEMPORARY SEEDING AND MULCHING	[Stippled Pattern]
SOIL RETENTION BLANKET	[Cross-hatched Pattern]

PARK AVE - GARFIELD ST
 SCALE: 1" = 20'



DATE: 6/9/21 TIME: 3:25 PM DRAWING NAME: 10 ERO.DWG
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NO.	BY	DATE	REVISIONS
1	ALL	07/20/2020	ISSUED FOR BIDDING
2	ALL	07/22/2020	ISSUED FOR CONSTRUCTION

The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans. All changes to the plans must be in writing and must be approved by the provider of these plans.
CAUTION

GRAND LAKE STREETSCAPE PHASE 3
EROSION CONTROL LAN
PARK AVE - PITKIN ST

PREPARED FOR: TOWN OF GRAND LAKE, CO DATE SUBMITTED: MAY 2019
 WWW.NV5.COM



SHEET NUMBER
ERO-03

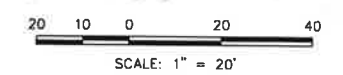
SCALE
 VERTICAL: AS NOTED
 HORIZONTAL: AS NOTED
 JOB NUMBER
 223519-000073

- EROSION CONTROL NOTES:**
1. PROTECT ALL EXISTING VEGETATION PER DIRECTION OF THE PROJECT ENGINEER.
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 - 4.2. REMOVE ALL TEMPORARY SHORING, BRACING, EROSION CONTROL, AND OTHER PROTECTION DEVICES WHEN NO LONGER IN USE.

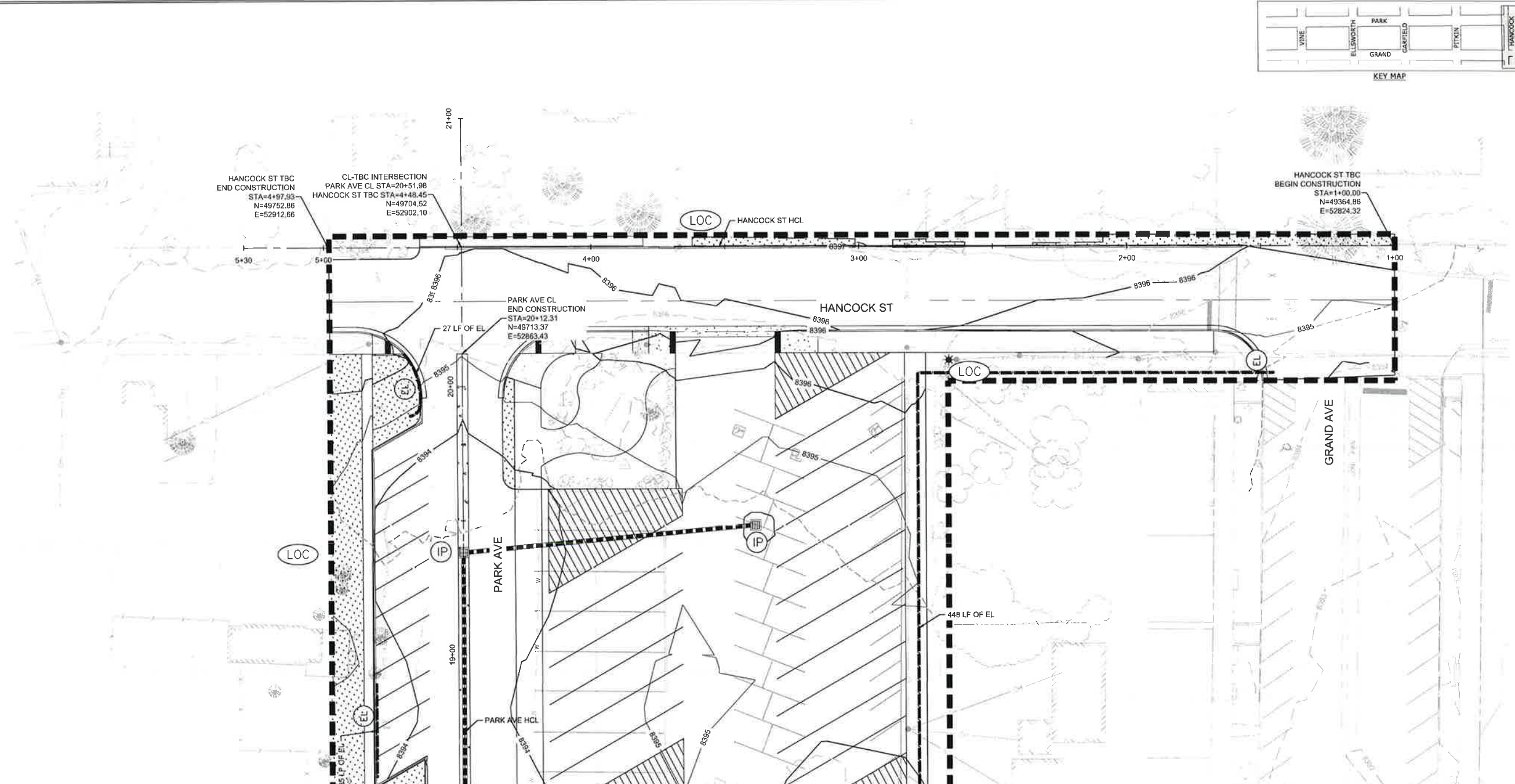
DESCRIPTION	SYMBOL
LIMITS OF CONSTRUCTION	LOC
CONSTRUCTION FENCE	CF
SILT FENCE	SF
EROSION LOG	EL
INLET PROTECTION	IP
ROCK SOCK	RS
TEMPORARY SEEDING AND MULCHING	(Dotted pattern)
SOIL RETENTION BLANKET	(Cross-hatched pattern)

PARK AVE - PITKIN ST
 SCALE: 1" = 20'



Know what's below.
 Call before you dig.
 CALL 2 BUSINESS DAYS IN ADVANCE BEFORE YOU DIG. GRADE OR EXCAVATE FOR THE MARKING OF UNDERGROUND UTILITIES.

DATE: 6/2/21 TIME: 3:25 PM DRAWING NAME: 10_EROSION
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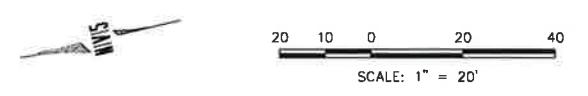


- EROSION CONTROL NOTES:**
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DESCRIPTION	SYMBOL
LIMITS OF CONSTRUCTION	LOC
CONSTRUCTION FENCE	CF
SILT FENCE	SF
EROSION LOG	EL
INLET PROTECTION	IP
ROCK SOCK	RS
TEMPORARY SEEDING AND MULCHING	[Pattern]
SOIL RETENTION BLANKET	[Pattern]

HANCOCK ST - GRAND AVE TO PARK AVE
 SCALE: 1" = 20'



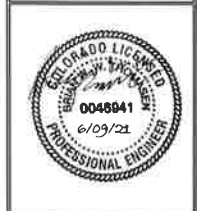
NO.	BY	DATE	REVISION
1	AL	07/27/2020	ISSUED FOR BIDDING
2	AL	07/27/2020	ISSUED FOR CONSTRUCTION

The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans. All changes to the plans must be in writing and must be approved by the preparer of these plans.

GRAND LAKE STREETSCAPE PHASE 3
EROSION CONTROL PLAN
HANCOCK ST - GRAND AVE TO PARK AVE

PREPARED FOR: TOWN OF GRAND LAKE, CO DATE SUBMITTED: MAY 2019

N|V|S
 BEYOND ENGINEERING
 5445 MARK DABLING BLVD, SUITE 100 COLORADO SPRINGS, CO 80918
 719.288.8563 TEL. 303.539.3840 FAX
 WWW.NVS.COM

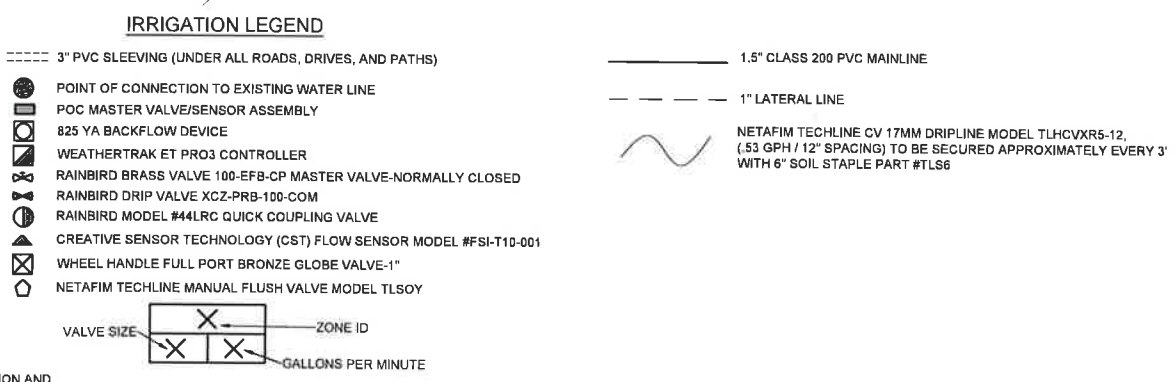
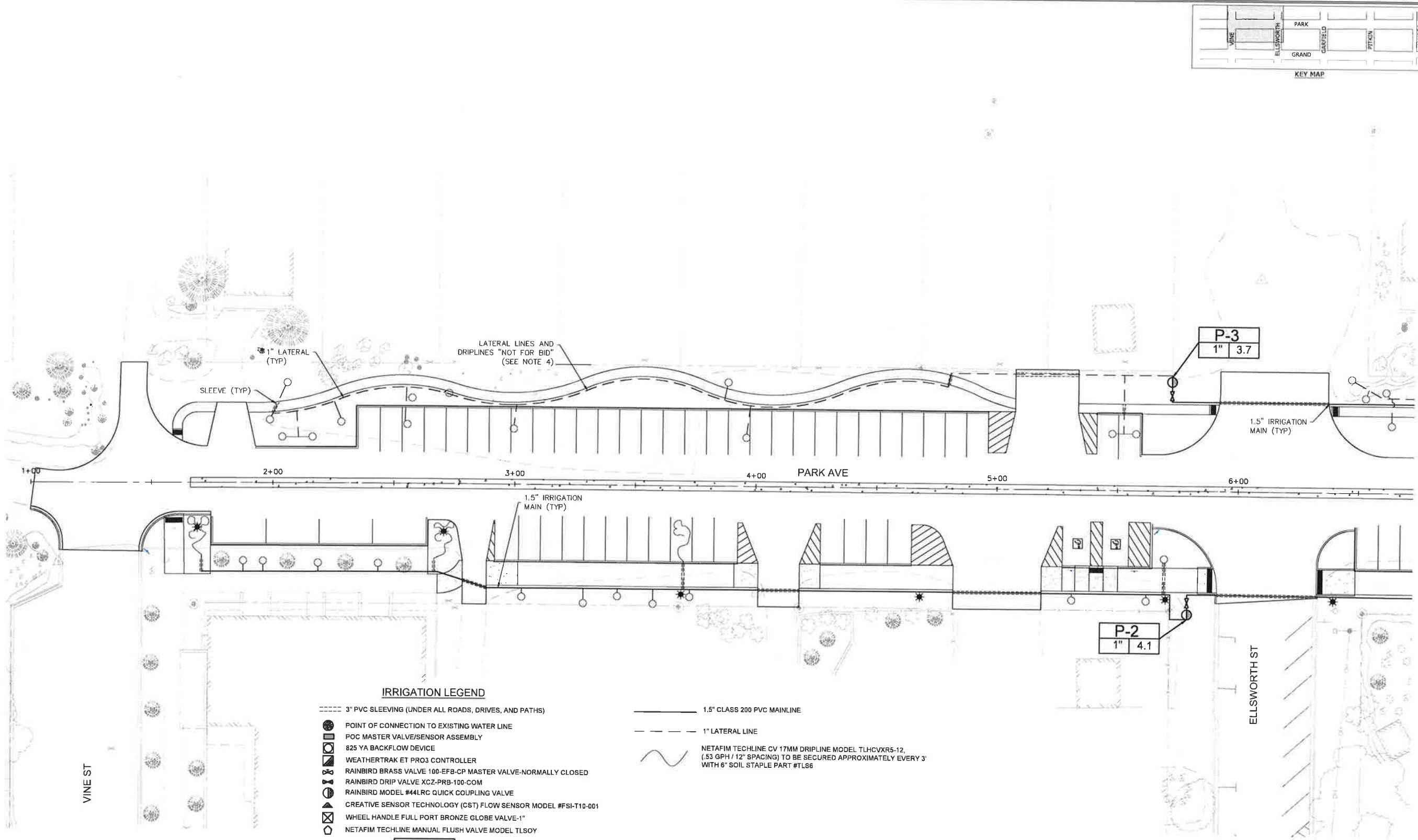


SHEET NUMBER
ERO-04

SCALE
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 HORIZONTAL: AS NOTED

JOB NUMBER
 223519-0000073

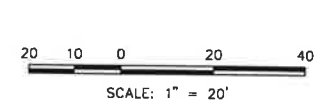
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 PATH: C:\PROJBOX (NWS)\NFS\EN-PROJ\223519-0000073\CA00\CIVL



- NOTES:**
- SEE LANDSCAPE PLANS FOR PLANTING INFORMATION AND LOCATIONS.
 - IRRIGATION CONTRACTOR IS RESPONSIBLE FOR MAKING SURE THAT THE IRRIGATION SYSTEM IS FUNCTIONING PROPERLY AND THAT ALL PLANTS ON THE SYSTEM ARE GETTING ADEQUATE WATER.
 - IRRIGATION MAINLINE TO BE CAPPED AT BOTH ENDS, CONTRACTOR TO MARK LINE LOCATION AT BOTH ENDS.
 - LATERAL LINES AND NETAFIM DRIPLINES ARE "NOT FOR BID" IN THIS CONSTRUCTION PHASE.



PARK AVE - VINE ST TO ELLSWORTH ST
 SCALE: 1" = 20'



06-15-2021

NO.	DATE	BY	REVISIONS
1	02/20/2020	ALL	ISSUED FOR BID
2	06/22/2020	ALL	ISSUED FOR CONSTRUCTION

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CAUTION

GRAND LAKE STREETSCAPE PHASE 3
 IRRIGATION PLANS
 PARK AVE - VINE ST TO ELLSWORTH ST
 PREPARED FOR: TOWN OF GRAND LAKE, CO DATE SUBMITTED: MAY 2019

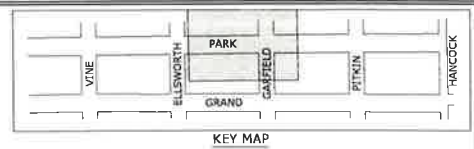
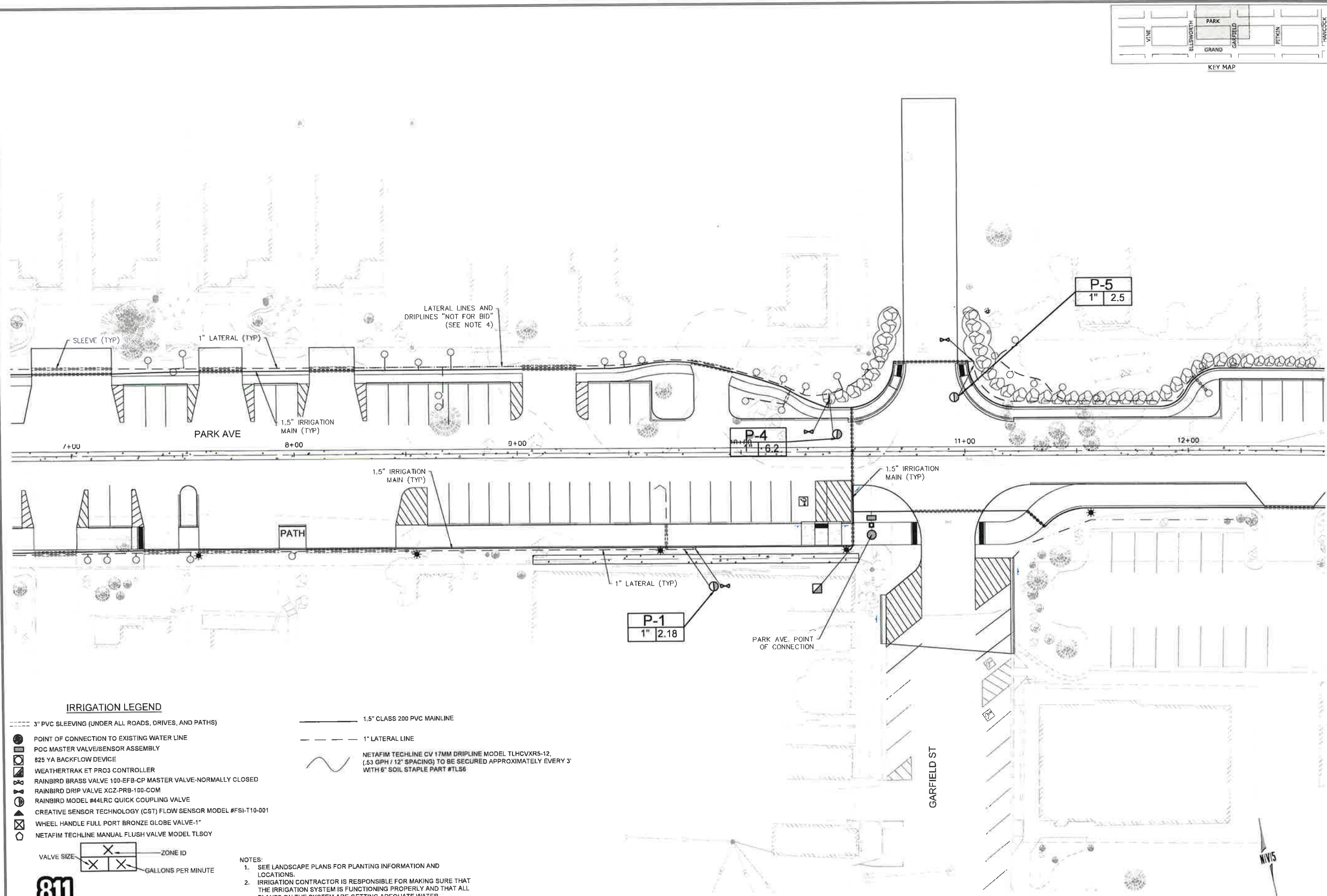
NIV5
 BEYOND ENGINEERING
 COLORADO SPRINGS, CO 80918
 WWW.NIV5.COM
 5445 MARK DABLING BLVD, SUITE 100
 719.288.8563 TEL. 303.539.9840 FAX



SHEET NUMBER
IRR-01

SCALE
 VERTICAL: AS NOTED
 HORIZONTAL: AS NOTED

JOB NUMBER
 223519-0000073

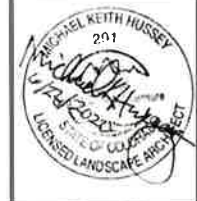


NO.	BY	DATE	REVISION
1	AL	07/27/20	ISSUED FOR CONSTRUCTION
2	AL	08/22/20	

CAUTION
 The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or use of these plans. All changes to these plans must be in writing and must be approved by the preparer of these plans.

GRAND LAKE STREETSCAPE PHASE 3
IRRIGATION PLAN 5
PARK AVE - GARFIELD ST

N|V5
 BEYOND ENGINEERING
 5445 MARK DABLING BLVD, SUITE 100 CO. ORADO SPRINGS, CO 80918
 719.268.8563 TEL. 303.539.8840 FAX
 WWW.NV5.COM



SHEET NUMBER
IRR-02
 SCALE
 VERTICAL: AS NOTED
 HORIZONTAL: AS NOTED
 JOB NUMBER
 223519-000073

- IRRIGATION LEGEND**
- 3" PVC SLEEVING (UNDER ALL ROADS, DRIVES, AND PATHS)
 - POINT OF CONNECTION TO EXISTING WATER LINE
 - POC MASTER VALVE/SENSOR ASSEMBLY
 - 825 YA BACKFLOW DEVICE
 - WEATHERTRAK ET PRO3 CONTROLLER
 - RAINBIRD BRASS VALVE 100-EFB-CP MASTER VALVE-NORMALLY CLOSED
 - RAINBIRD DRIP VALVE XCZ-PRB-100-COM
 - RAINBIRD MODEL #44LRC QUICK COUPLING VALVE
 - CREATIVE SENSOR TECHNOLOGY (CST) FLOW SENSOR MODEL #FSI-T10-001
 - WHEEL HANDLE FULL PORT BRONZE GLOBE VALVE-1"
 - NETAFIM TECHLINE MANUAL FLUSH VALVE MODEL TL50Y
 - 1.5" CLASS 200 PVC MAINLINE
 - - - 1" LATERAL LINE
 - ~ NETAFIM TECHLINE CV 17MM DRIPLINE MODEL TLHCVXR5-12, (.53 GPH / 12" SPACING) TO BE SECURED APPROXIMATELY EVERY 3' WITH 6" SOIL STAPLE PART #TL56

VALVE SIZE:

X	X	ZONE ID
X	X	GALLONS PER MINUTE

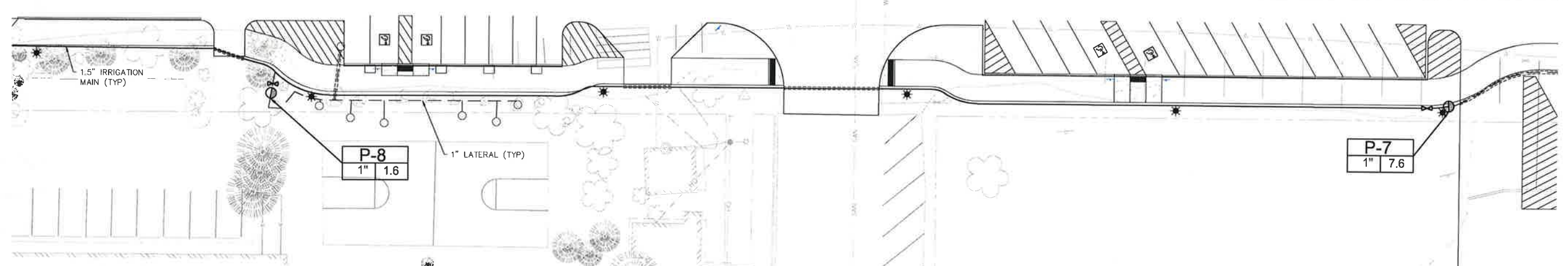
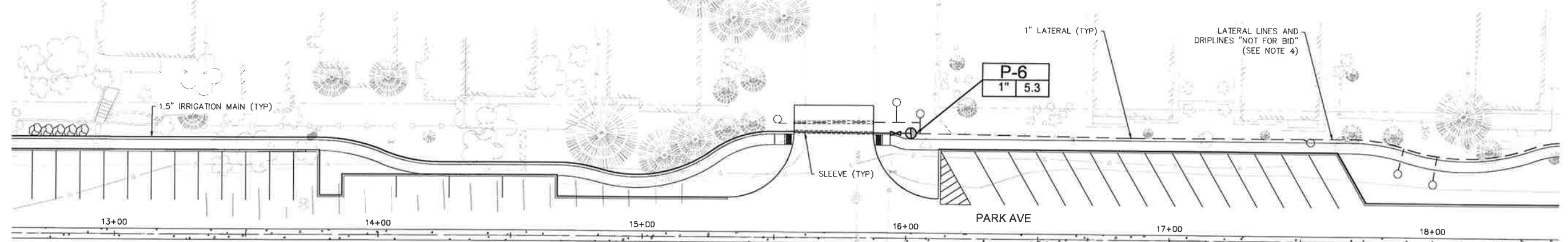
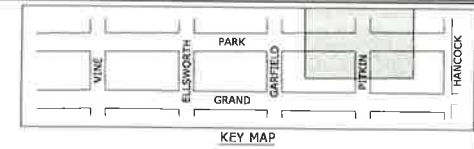
811
 Know what's below.
 Call before you dig.
 CALL 1 BUSINESS DAY IN ADVANCE BEFORE YOU DIG. GRADE OR EXCAVATE FOR THE MARKING OF UNDERGROUND UTILITIES.

- NOTES:**
- SEE LANDSCAPE PLANS FOR PLANTING INFORMATION AND LOCATIONS.
 - IRRIGATION CONTRACTOR IS RESPONSIBLE FOR MAKING SURE THAT THE IRRIGATION SYSTEM IS FUNCTIONING PROPERLY AND THAT ALL PLANTS ON THE SYSTEM ARE GETTING ADEQUATE WATER.
 - IRRIGATION MAINLINE TO BE CAPPED AT BOTH ENDS. CONTRACTOR TO MARK LINE LOCATION AT BOTH ENDS.
 - LATERAL LINES AND NETAFIM DRIPLINES ARE "NOT FOR BID" IN THIS CONSTRUCTION PHASE.

PARK AVE - GARFIELD ST
 SCALE: 1" = 20'



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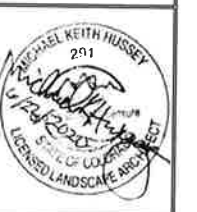


NO.	BY	DATE	REVISIONS
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2	ALL	06/22/2020	ISSUED FOR CONSTRUCTION

GRAND LAKE STREETSCAPE PHASE 3
IRRIGATION PLAN 5
PARK AVE - PITKIN ST

PREPARED FOR: TOWN OF GRAND LAKE, CO DATE SUBMITTED: MAY 2019

NV5
 BEYOND ENGINEERING
 5445 MARK DABLING BLVD., SUITE 100 COLORADO SPRINGS, CO 80918
 719.268.8583 TEL 303.539.8640 FAX
 WWW.NV5.COM



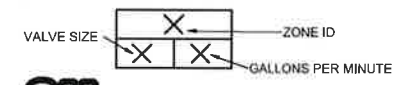
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JOB NUMBER
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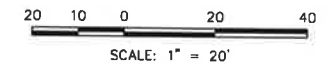
IRRIGATION LEGEND

- 3" PVC SLEEVING (UNDER ALL ROADS, DRIVES, AND PATHS)
- POINT OF CONNECTION TO EXISTING WATER LINE
- POC MASTER VALVE/SENSOR ASSEMBLY
- ⊗ 825 YA BACKFLOW DEVICE
- ⊗ WEATHERTRAK ET PRO3 CONTROLLER
- ⊗ RAINBIRD BRASS VALVE 100-EFB-CP MASTER VALVE-NORMALLY CLOSED
- ⊗ RAINBIRD DRIP VALVE XCZ-PRB-100-COM
- ⊗ RAINBIRD MODEL #44LRC QUICK COUPLING VALVE
- ⊗ CREATIVE SENSOR TECHNOLOGY (CST) FLOW SENSOR MODEL #FSI-T10-001
- ⊗ WHEEL HANDLE FULL PORT BRONZE GLOBE VALVE-1"
- ⊗ NETAFIM TECHLINE MANUAL FLUSH VALVE MODEL TL50Y
- 1.5" CLASS 200 PVC MAINLINE
- 1" LATERAL LINE
- ~ NETAFIM TECHLINE CV 17MM DRIPLINE MODEL TLHCVXR5-12, (.53 GPH / 12" SPACING) TO BE SECURED APPROXIMATELY EVERY 3' WITH 6" SOIL STAPLE PART #TL56



- NOTES:**
- SEE LANDSCAPE PLANS FOR PLANTING INFORMATION AND LOCATIONS.
 - IRRIGATION CONTRACTOR IS RESPONSIBLE FOR MAKING SURE THAT THE IRRIGATION SYSTEM IS FUNCTIONING PROPERLY AND THAT ALL PLANTS ON THE SYSTEM ARE GETTING ADEQUATE WATER.
 - IRRIGATION MAINLINE TO BE CAPPED AT BOTH ENDS. CONTRACTOR TO MARK LINE LOCATION AT BOTH ENDS.
 - LATERAL LINES AND NETAFIM DRIPLINES ARE "NOT FOR BID" IN THIS CONSTRUCTION PHASE.

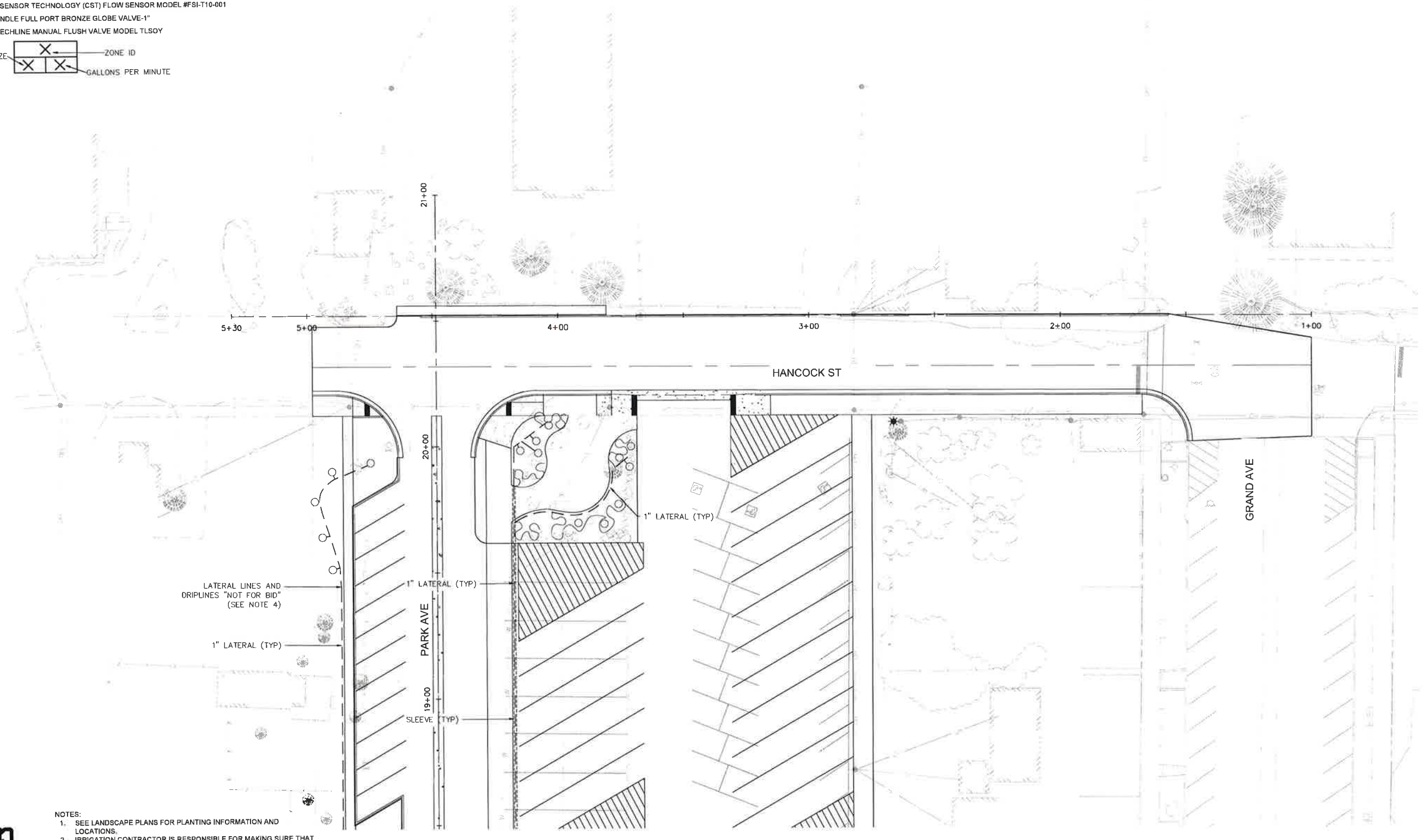
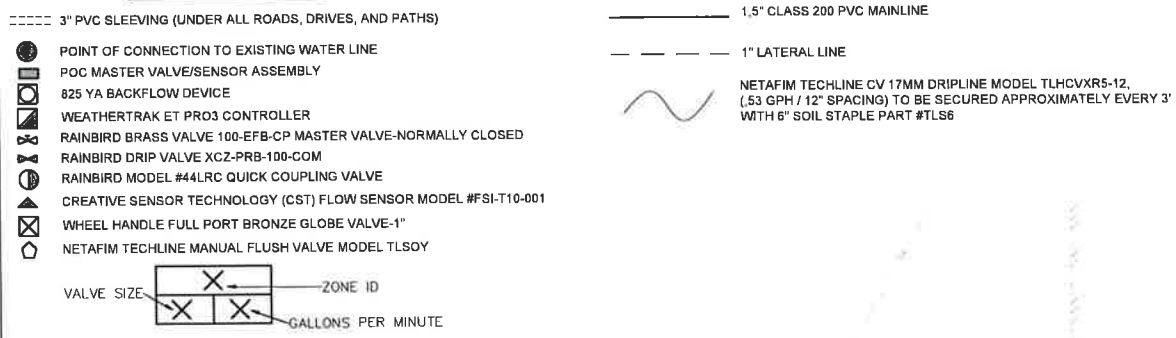
PARK AVE - PITKIN ST
 SCALE: 1" = 20'



The engineer preparing these plans is not responsible for, or liable for, unauthorized changes to or sets of these plans. All changes to the plans must be in writing and must be approved by the preparer of these plans.

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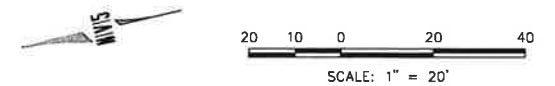
IRRIGATION LEGEND



- NOTES:**
1. SEE LANDSCAPE PLANS FOR PLANTING INFORMATION AND LOCATIONS.
 2. IRRIGATION CONTRACTOR IS RESPONSIBLE FOR MAKING SURE THAT THE IRRIGATION SYSTEM IS FUNCTIONING PROPERLY AND THAT ALL PLANTS ON THE SYSTEM ARE GETTING ADEQUATE WATER.
 3. IRRIGATION MAINLINE TO BE CAPPED AT BOTH ENDS. CONTRACTOR TO MARK LINE LOCATION AT BOTH ENDS.
 4. LATERAL LINES AND NETAFIM DRIP LINES ARE "NOT FOR BID" IN THIS CONSTRUCTION PHASE.



HANCOCK ST - GRAND AVE TO PARK AVE
 SCALE: 1" = 20'



NO.	BY	DATE	REVISIONS
1	AL	02/27/2020	ISSUED FOR BID
2	AL	02/25/2020	ISSUED FOR CONSTRUCTION

GRAND LAKE STREETSCAPE PHASE 3
 IRRIGATION PLANS
 HANCOCK ST - GRAND AVE TO PARK AVE
 PREPARED FOR: TOWN OF GRAND LAKE, CO DATE SUBMITTED: MAY 2019

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 5445 MARK DABLING BLVD, SUITE 100 COLORADO SPRINGS, CO 80918
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SHEET NUMBER
IRR-04
 SCALE
 VERTICAL: AS NOTED
 HORIZONTAL: AS NOTED
 JOB NUMBER
 223519-0000073

CURB RAMP GENERAL NOTES

1. IN NEW CONSTRUCTION OR FULL-DEPTH RECONSTRUCTION, PROVIDE A SEPARATE CURB RAMP FOR EACH MARKED OR UNMARKED PEDESTRIAN STREET CROSSING. CURB RAMP SHALL BE CONTIGUOUS WITH THE WIDTH OF THE PEDESTRIAN STREET CROSSING OR CROSSWALK STRIP, OR AS SHOWN ON THE CONTRACT PLANS.

2. ALTERNATIONS ARE OFFERED AS CHANGES TO AN EXISTING HIGHWAY THAT AFFECT PEDESTRIAN ACCESS, CIRCULATION, OR USE. ALTERNATIONS INCLUDE, BUT ARE NOT LIMITED TO, REPAIRS, REHABILITATION, RECONSTRUCTION, CURB RAMP RETROFIT, HISTORIC RESTORATION, OR CHANGES OR REARRANGING OF THE STRUCTURAL PARTS OF ELEMENTS OF A PEDESTRIAN FACILITY.

3. A WALKABLE SURFACE IS DEFINED AS A PAVED SURFACE ADJACENT TO A CURB RAMP OR TURNING SPACE, WITHOUT RAISED OBSTACLES, THAT CAN BE WALKED BY A USER WHO IS VISUALLY IMPAIRED.

4. IN ALTERNATIONS, WHERE AN EXISTING PHYSICAL CONSTRAINT PREVENTS PROVIDING A SEPARATE CURB RAMP FOR EACH PEDESTRIAN STREET CROSSING, A SINGLE CONTIGUOUS RAMP ON THE APPROACH SHALL BE PERMITTED TO SERVE MULTIPLE PEDESTRIAN STREET CROSSINGS. THE USE OF A SINGLE CONTIGUOUS RAMP SHALL BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION. SEPARATE RAMP ARE NOT ACCEPTABLE IN NEW CONSTRUCTION OR FULL-DEPTH RECONSTRUCTION.

5. DETECTABLE WARNING SURFACES SHALL BE PROVIDED TO INDICATE THE BOUNDARY BETWEEN A PEDESTRIAN ROUTE AND VEHICULAR ROUTES WHERE THERE IS A TURNING SPACE OR CROSSING. DETECTABLE WARNING SURFACES SHALL BE PROVIDED AT THE FOLLOWING LOCATIONS:
1. CURB RAMP, BLIND SPOTS, TRANSITION, AND EXPANDED CORNER AT PEDESTRIAN STREET CROSSINGS;
2. PEDESTRIAN CROSSING TO CROSSING OR TO TURNING SPACE;
3. TURNING SPACE TO TURNING SPACE WHERE THE EDGE OF THE PAVEMENT IS NOT PROVIDED TO PEDESTRIAN CROSSING, TRANSITION, AND TURNING SPACE AT SIDEWALK OR STREET LEVEL; TURNING SPACE WHERE THE AREA IS NOT PROVIDED TO PEDESTRIAN CROSSING, TRANSITION, AND TURNING SPACE AT SIDEWALK OR STREET LEVEL; TURNING SPACE WHERE THE AREA IS NOT PROVIDED TO PEDESTRIAN CROSSING, TRANSITION, AND TURNING SPACE AT SIDEWALK OR STREET LEVEL.

6. DETECTABLE WARNING SURFACES SHALL CONTRAST VISUALLY WITH THE ADJACENT CURB, SIDEWALK, OR PEDESTRIAN SURFACE SURFACE, EITHER LIGHT-COLORING OR DARK-COLORING, FEDERAL YELLOW COLOR IS PREFERRED. WHEN OTHER COLORS ARE USED, THE ENGINEER SHALL BE APPROVED BY THE ENGINEER.

7. IN ALTERNATIONS, TO AVOID CHANGING GRADE INEXISTENTLY ON STEEP HIGHLIGHTS, A CURB RAMP LENGTH IS NOT REQUIRED TO EXCEED 10 FEET REGARDLESS OF THE RESULTING RAMP RUNNING SLOPE.

8. ALL SLOPES ARE MEASURED WITH RESPECT TO A LEVEL PLANE.

9. DRAINAGE STRUCTURES, TRAFFIC SIGNAL EQUIPMENT, OR OTHER EQUIPMENT SHALL NOT BE INSTALLED ON THE CURB RAMP, OR TURNING SPACE AREA.

10. IN NEW CONSTRUCTION, FULL-DEPTH RECONSTRUCTION, MAINTENANCE HOLE COVERS, GREAT LIDS, OR SANITARY SHALL NOT BE CONSTRUCTED WITHIN ANY PART OF CURB RAMP OR TURNING SPACE. IN ALTERNATIONS, WHERE THESE STRUCTURES ARE BELIEVED TO BE LOCATED OUTSIDE OF THE CURB RAMP OR TURNING SPACE, THEY MUST NOT CREATE A VERTICAL DISCONTINUITY GREATER THAN 1/8" AND ANY VERTICAL DISCONTINUITY BETWEEN 1/8" AND 1/2" MUST BE BELIEVED WITH A SLOPE NOT STEEPER THAN 1:20. THE SLOPE SHALL BE APPLIED ACROSS THE ENTIRE SURFACE DISCONTINUITY.

11. CONSTRUCTION OF ANY REQUIRED PEDESTRIAN CURB SHALL BE INCLUDED IN THE BID PRICE OF THE CONCRETE CURB RAMP AND WILL NOT BE PAID FOR SEPARATELY.

12. ALL CURB RAMP JOINTS AND GRADE BREAKS SHALL BE FLUSH (1/8") JOINT BETWEEN THE ROADWAY SURFACE AND THE OUTER PAV SHALL BE FLUSH.

13. THE CONTRACTOR SHALL VERIFY REMOVAL LIMITS ARE SUFFICIENT TO PROVIDE POSITIVE DRAINAGE, MAINTAIN EXISTING DRAINAGE PATTERNS, AND AVOID PONDING IN THE FINAL CONSTRUCTION.

14. FLARED SIDE SLOPES MAY BE USED TO INDICATE WHERE THEY MEET A NON-WALKABLE SURFACE, OR WHERE THE ADJACENT RAMP SURFACE IS DESIGNED TO PEDESTRIAN SURFACE.

15. THE CHANGE IN GRADE AT THE BOTTOM OF THE CURB RAMP SHALL NOT EXCEED AN ALGEBRAIC DIFFERENCE OF 1/32" AT THE CORNER SLOPE OF THE GUTTER AT THE FOOT OF A RAMP, TURNING SPACE, OR BLENDED TRANSITION SHALL NOT EXCEED 5:0.0.

16. GRADE BREAKS AT THE TOP AND BOTTOM OF RAMP RAMP SHALL BE PERPENDICULAR TO THE DIRECTION OF THE RAMP. GRADE BREAKS SHALL NOT BE PERMITTED ON THE SURFACE OF THE RAMP RUN OR TURNING SPACE. SURFACE SLOPES THAT MEET AT GRADE BREAKS SHALL BE FLUSH.

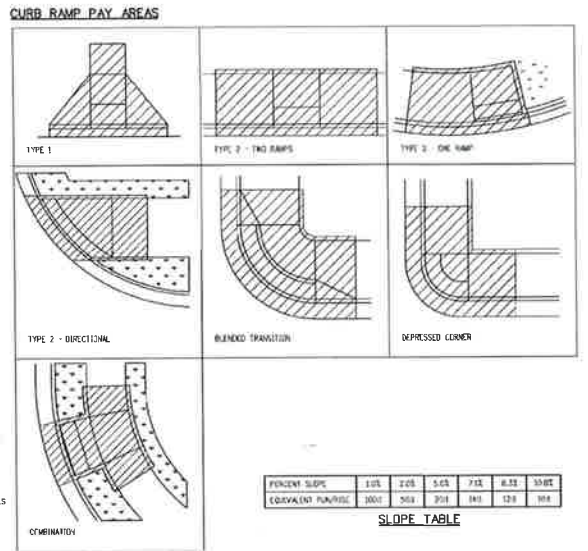
17. A DRAINAGE FENCE, WITH SLOPES PERPENDICULAR TO THE DIRECTION OF PEDESTRIAN MOVEMENT, SHALL BE APPLIED TO ALL RAMP AND TURNING SPACE SURFACES.

18. IN ALTERNATIONS, WHERE A RAMP OR TURNING SPACE MUST BE INTO AN EXISTING CURB, THAT CANNOT BE ALTERED, THE RAMP OR TURNING SPACE MAY BE LIMITED TO TRANSITION TO THE EXISTING CURB. THE TRANSITION TO THE EXISTING CURB SHALL BE SLOPE 2:1. THE LENGTH OF THE RAMP OR TURNING SPACE TO TRANSITION TO THE EXISTING CURB SHALL BE SLOPE 2:1. THE RATE OF CHANGE ON A RAMP OR TURNING SPACE SHALL NOT EXCEED 20 PER CENT PER FOOT.

19. DESIGN AND CONSTRUCTION CURB RAMP, TURNING SPACE, AND FLARE SLOPES WITH THE FLATEST SLOPES POSSIBLE. THE SLOPES INDICATED IN THESE DETAILS SHOW THE MAXIMUM SLOPES ALLOWABLE. PREFERRED VALUES TO BE USED DURING DESIGN, LAYOUT, AND CONSTRUCTION ARE:

- RAMP RUNNING SLOPE 7:51
- RAMP CROSS SLOPE 1:32
- TURNING SPACE RUNNING SLOPE 1:32
- TURNING SPACE CROSS SLOPE 1:32
- FLARE SLOPE 0.0-0.02

GENERAL NOTES & PAY AREAS

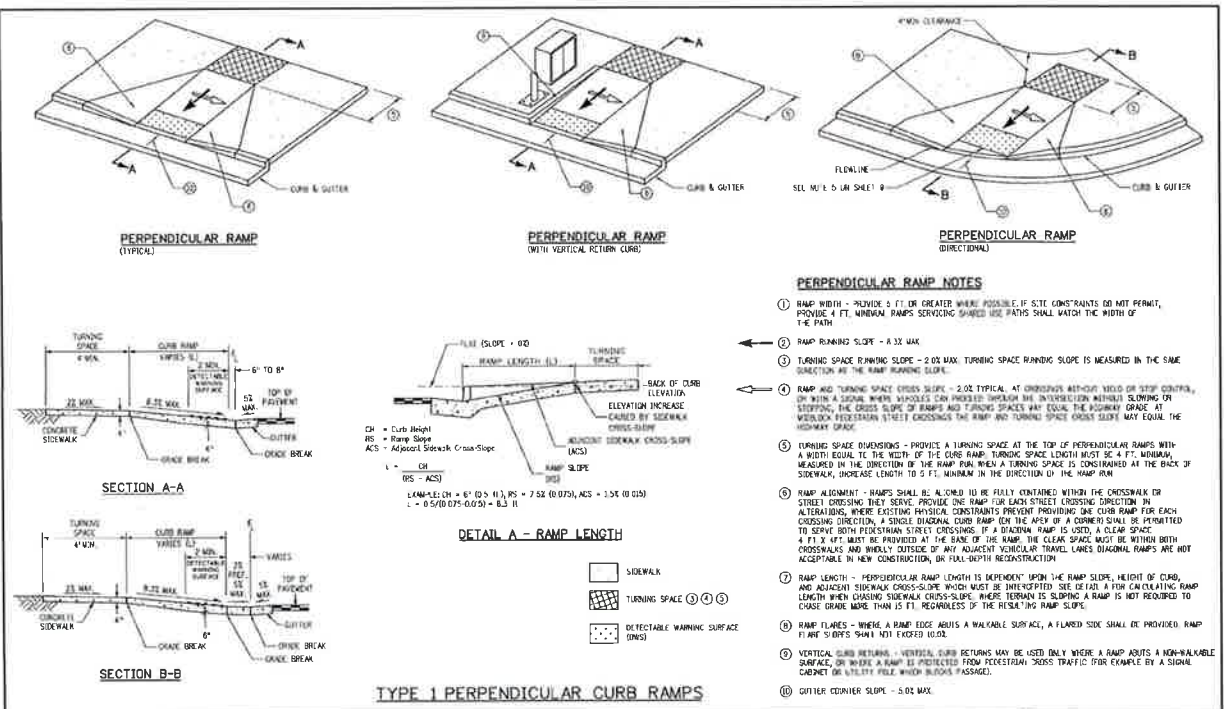


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Last Modification Date: 07/31/19				Denver, CO 80204	
Detailer: LTA				Phone: 303-757-9021 FAX: 303-757-9858	
CAD User: Miroslava VB	Scale: Not to Scale Units: English			Project Development Branch	JBK

Computer File Information		Sheet Revisions		Colorado Department of Transportation	
Date	Comments	Date	Comments	Date	Comments
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Designer: JBC				CDOT HQ, 3rd Floor	
Last Modification Date: 07/31/19				Denver, CO 80204	
Detailer: LTA				Phone: 303-757-9021 FAX: 303-757-9858	
CAD User: Miroslava VB	Scale: Not to Scale Units: English			Project Development Branch	JBK

CURB RAMP

STANDARD PLAN NO.	
M-608-1	
Standard Sheet No. 1 of 10	



PERPENDICULAR RAMP NOTES

1. RAMP WIDTH - PROVIDE 5 FT. OR GREATER WHERE POSSIBLE. IF SITE CONSTRAINTS DO NOT PERMIT, PROVIDE 4 FT. MINIMUM. RAMP SURFACING SHALL BE FINISH SHALL MATCH THE WIDTH OF THE PATH.

2. RAMP RUNNING SLOPE - A 3:1 MAX.

3. TURNING SPACE RUNNING SLOPE - 2:02 MAX. TURNING SPACE RUNNING SLOPE IS MEASURED IN THE SAME DIRECTION AS THE RAMP RUNNING SLOPE.

4. RAMP AND TURNING SPACE CROSS SLOPE - 2:02 TYPICAL. AT INTERSECTIONS WITH-OUT-OF-STREET CROSSING, OR WITH A SIDEWALK WHERE WALKWAY OR SIDEWALK INTERSECTION WITH-OUT-OF-STREET CROSSING, THE CROSS SLOPE OF RAMP AND TURNING SPACE MAY EQUAL THE SIDEWALK GRADE AT WALKWAY INTERSECTION STREET CROSSING. THE RAMP AND TURNING SPACE CROSS SLOPE MAY EQUAL THE SIDEWALK GRADE.

5. TURNING SPACE DIMENSIONS - PROVIDE A TURNING SPACE AT THE TOP OF PERPENDICULAR RAMP WITH A WIDTH EQUAL TO THE WIDTH OF THE CURB RAMP. TURNING SPACE LENGTH MUST BE 4 FT. MINIMUM, MEASURED IN THE DIRECTION OF THE RAMP RUN. WHEN A TURNING SPACE IS CONSIDERED AT THE BACK OF SIDEWALK, INCREASE LENGTH TO 5 FT. MINIMUM IN THE DIRECTION OF THE RAMP RUN.

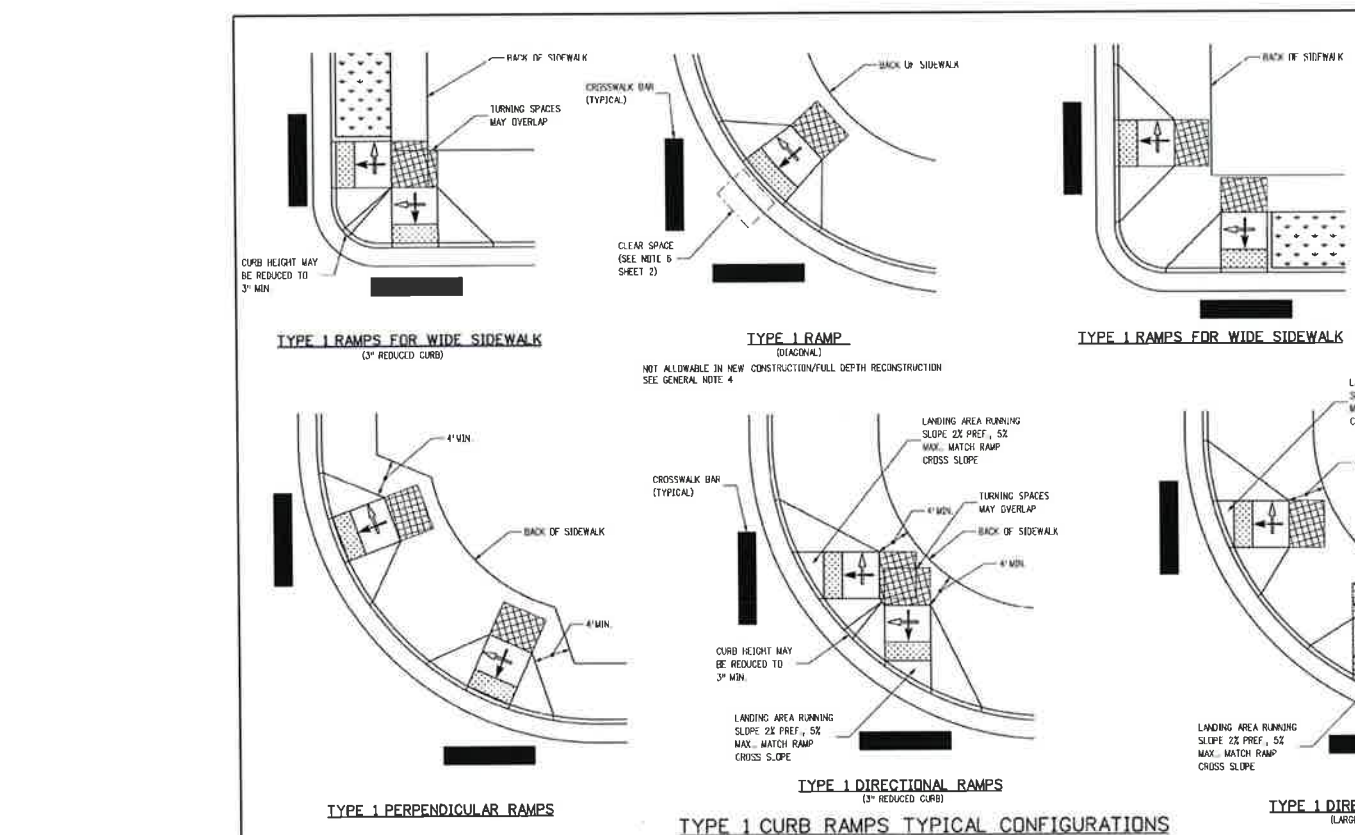
6. RAMP ALIGNMENT - RAMP SHALL BE FULLY CONTAINED WITHIN THE CROSSWALK OR STREET CROSSING THEY SERVE. PROVIDE ONE RAMP FOR EACH STREET CROSSING DIRECTION. IN ALTERNATIONS, WHERE EXISTING PHYSICAL CONSTRAINTS PREVENT PROVIDING ONE CURB RAMP FOR EACH CROSSING DIRECTION, A SINGLE DIRECTIONAL CURB RAMP FOR THE ASPECT OF A CORNER SHALL BE PERMITTED TO SERVE BOTH PEDESTRIAN STREET CROSSINGS. IF A DIRECTIONAL RAMP IS USED, A CLEAR SPACE 4 FT. X 4 FT. MUST BE PROVIDED AT THE BASE OF THE RAMP. THE CLEAR SPACE MUST BE WITHIN BOTH CROSSWALKS AND INWELLY OUTSIDE OF ANY ADJACENT VEHICULAR TRAVEL LANES. DIRECTIONAL RAMP ARE NOT ACCEPTABLE IN NEW CONSTRUCTION OR FULL-DEPTH RECONSTRUCTION.

7. RAMP LENGTH - PERPENDICULAR RAMP LENGTH IS DEPENDENT UPON THE RAMP SLOPE, HEIGHT OF CURB, AND ADJACENT SIDEWALK CROSS-SLOPE. WIDTH MUST BE INTERCEPTED SEE DETAIL A FOR CALCULATING RAMP LENGTH WHEN EXISTING SIDEWALK CROSS-SLOPE. THESE TURNING SPACE RAMP IS NOT REQUIRED TO CROSS GRADE MORE THAN 1/8". REGARDLESS OF THE RESULTING RAMP SLOPE.

8. RAMP FLARES - WHERE A RAMP EDGE ADJUTS A WALKABLE SURFACE, A FLARED SIDE SHALL BE PROVIDED. RAMP FLARE SLOPES SHALL NOT EXCEED 5:1.

9. VERTICAL CURB RETURN - VERTICAL CURB RETURN MAY BE USED ONLY WHERE A RAMP ADJUTS A NON-WALKABLE SURFACE, OR WHERE A RAMP IS PROTECTED FROM PEDESTRIAN CROSS TRAFFIC FOR EXAMPLE BY A SIGNAL CABINET OR UTILITY POLE WHICH BLOCKS PASSAGE.

10. GUTTER CENTER SLOPE - 5:02 MAX.



Computer File Information		Sheet Revisions		Colorado Department of Transportation	
Date	Comments	Date	Comments	Date	Comments
Creation Date: 07/31/19				2020 West Howard Place	
Designer: JBC				CDOT HQ, 3rd Floor	
Last Modification Date: 07/31/19				Denver, CO 80204	
Detailer: LTA				Phone: 303-757-9021 FAX: 303-757-9858	
CAD User: Miroslava VB	Scale: Not to Scale Units: English			Project Development Branch	JBK

Computer File Information		Sheet Revisions		Colorado Department of Transportation	
Date	Comments	Date	Comments	Date	Comments
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Last Modification Date: 07/31/19				Denver, CO 80204	
Detailer: LTA				Phone: 303-757-9021 FAX: 303-757-9858	
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CURB RAMP

STANDARD PLAN NO.	
M-608-1	
Standard Sheet No. 3 of 10	



GRAND LAKE STREETScape PHASE 3 STANDARD DETAILS

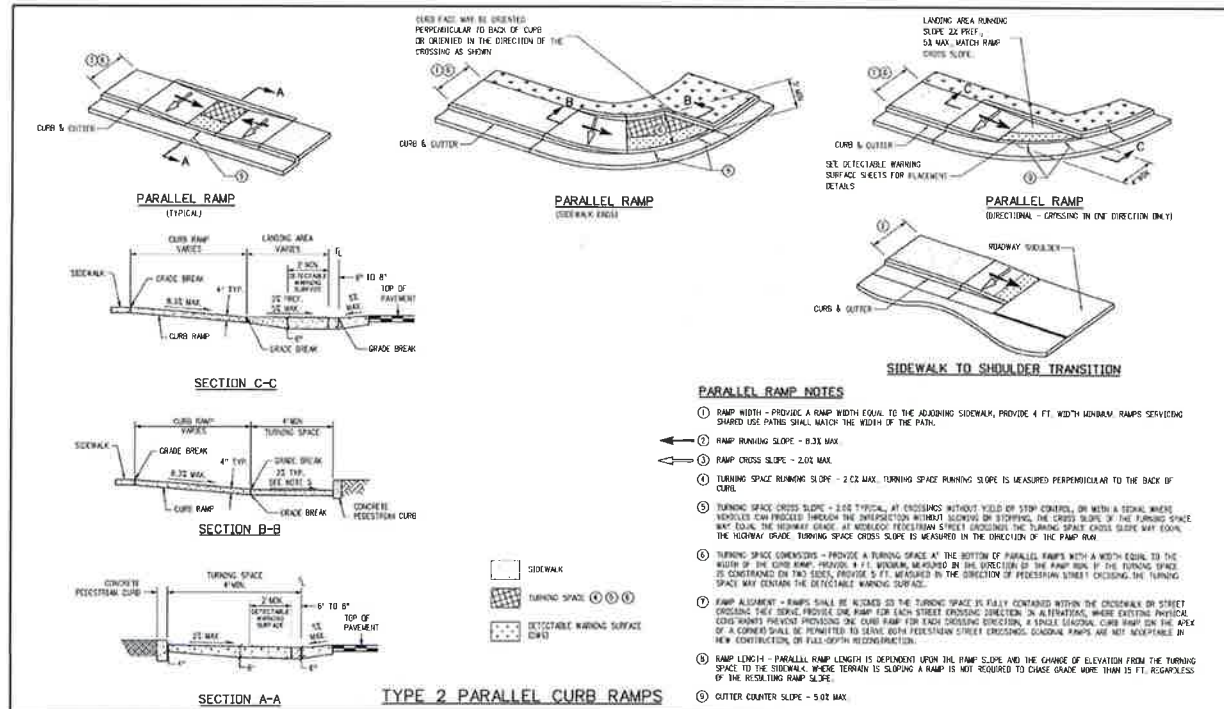


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719.268.8563 TEL. 303.539.9840 FAX. WWW.NIV5.COM

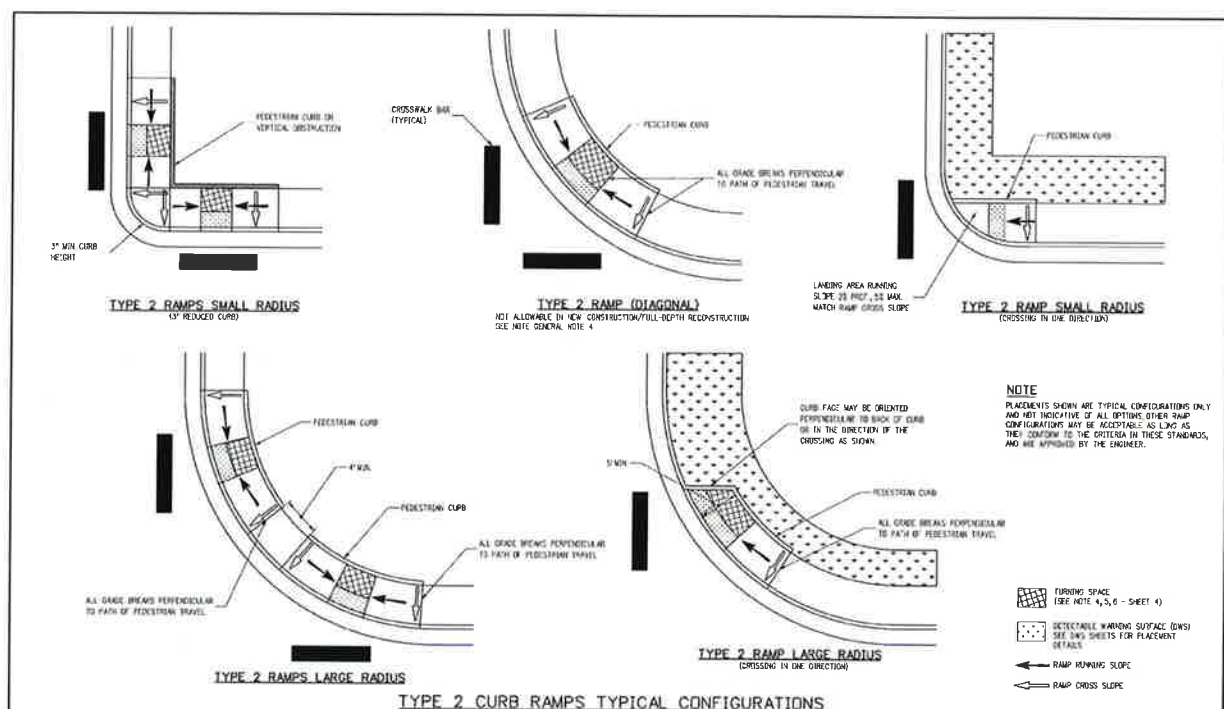
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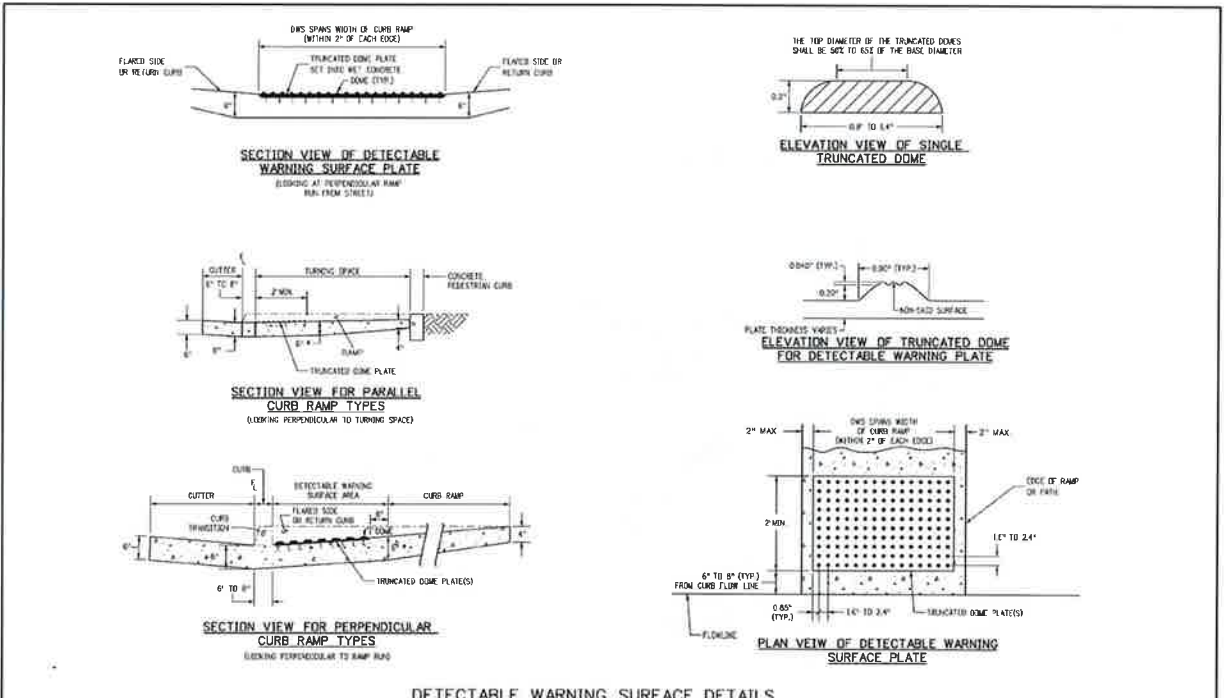
NOII/TVO
DATE SUBMITTED: MAY 2019
PREPARED FOR: TOWN OF GRAND LAKE, CO



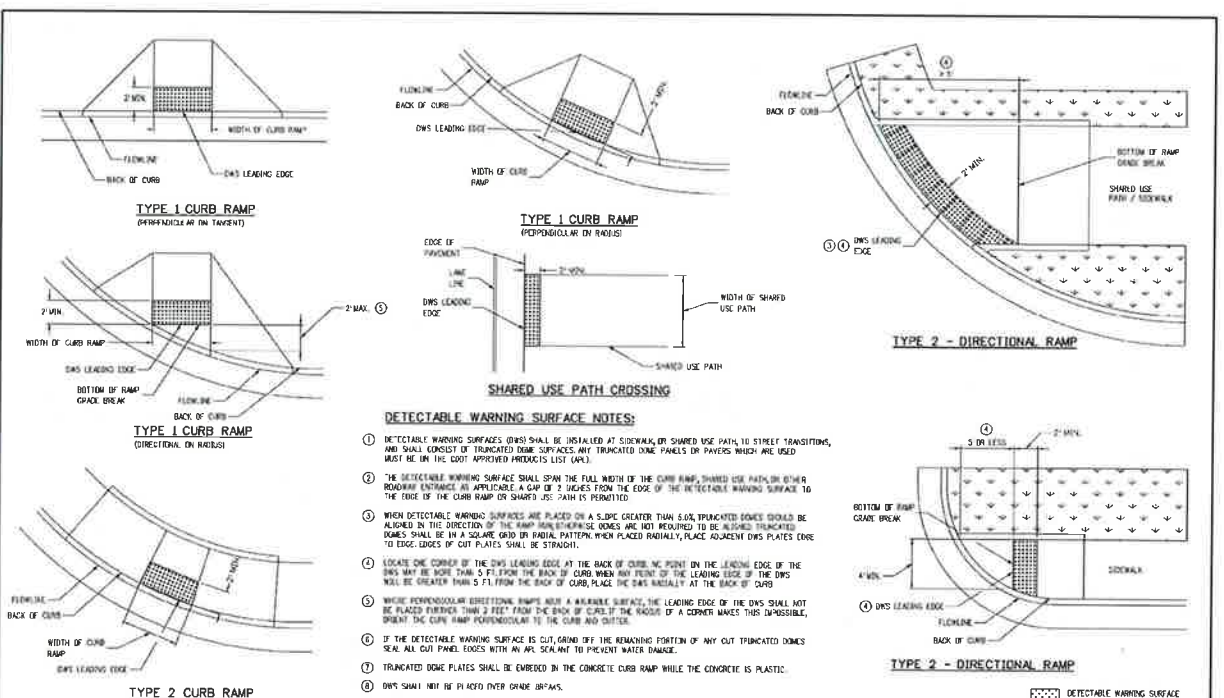
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Issued by the Project Development Branch: July 31, 2019		Project Sheet Number: _____	



Computer File Information	Sheet Revisions	Colorado Department of Transportation	STANDARD PLAN NO.
Creation Date: 07/31/19 Designer: JJB Last Modification Date: 07/31/19 Designer: JJB CAD File: M:\23519-000073\11 Det (Roadway) DWG	Date: _____ Comments: _____	2829 West Harvard Place COOT, 100, 3rd Floor Denver, CO 80204 Phone: 303-757-9921 FAX: 303-757-9968 Project Development Branch JJB	M-608-1 Standard Sheet No. 5 of 10
Issued by the Project Development Branch: July 31, 2019		Project Sheet Number: _____	



Computer File Information	Sheet Revisions	Colorado Department of Transportation	STANDARD PLAN NO.
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Issued by the Project Development Branch: July 31, 2019		Project Sheet Number: _____	



Computer File Information	Sheet Revisions	Colorado Department of Transportation	STANDARD PLAN NO.
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Issued by the Project Development Branch: July 31, 2019		Project Sheet Number: _____	

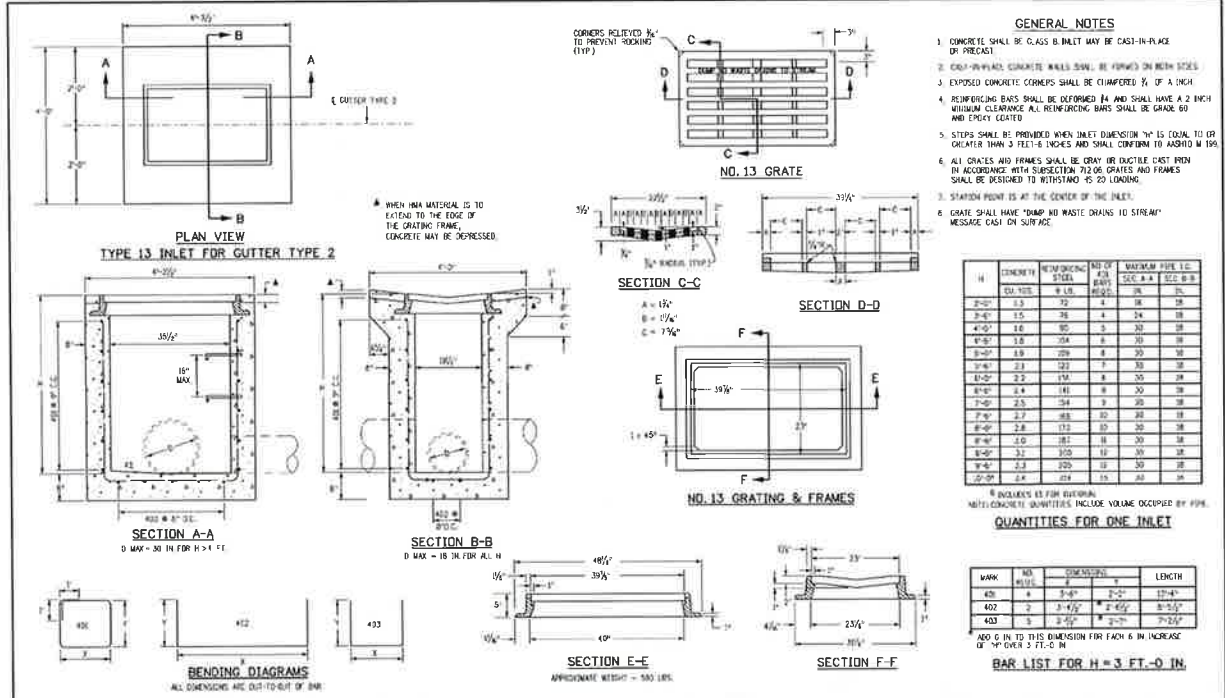
GRAND LAKE STREETSCAPE PHASE 3
 STANDARD DETAILS
 PREPARED FOR: TOWN OF GRAND LAKE, CO DATE SUBMITTED: MAY 2019
 COLORADO SPRINGS, CO 80918
 WWW.NV5.COM
 5445 MARK DABLING BLVD., SUITE 100
 719.286.8663 TEL. 303.559.9940 FAX

NV5
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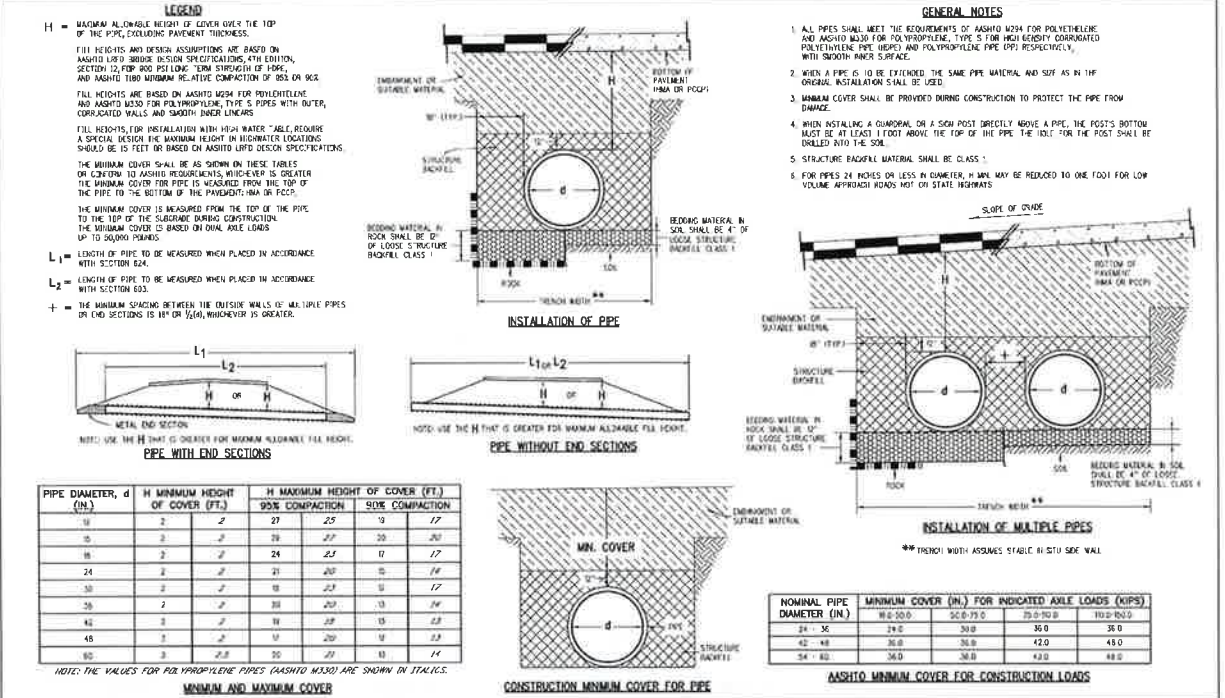
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 NOL/NVS

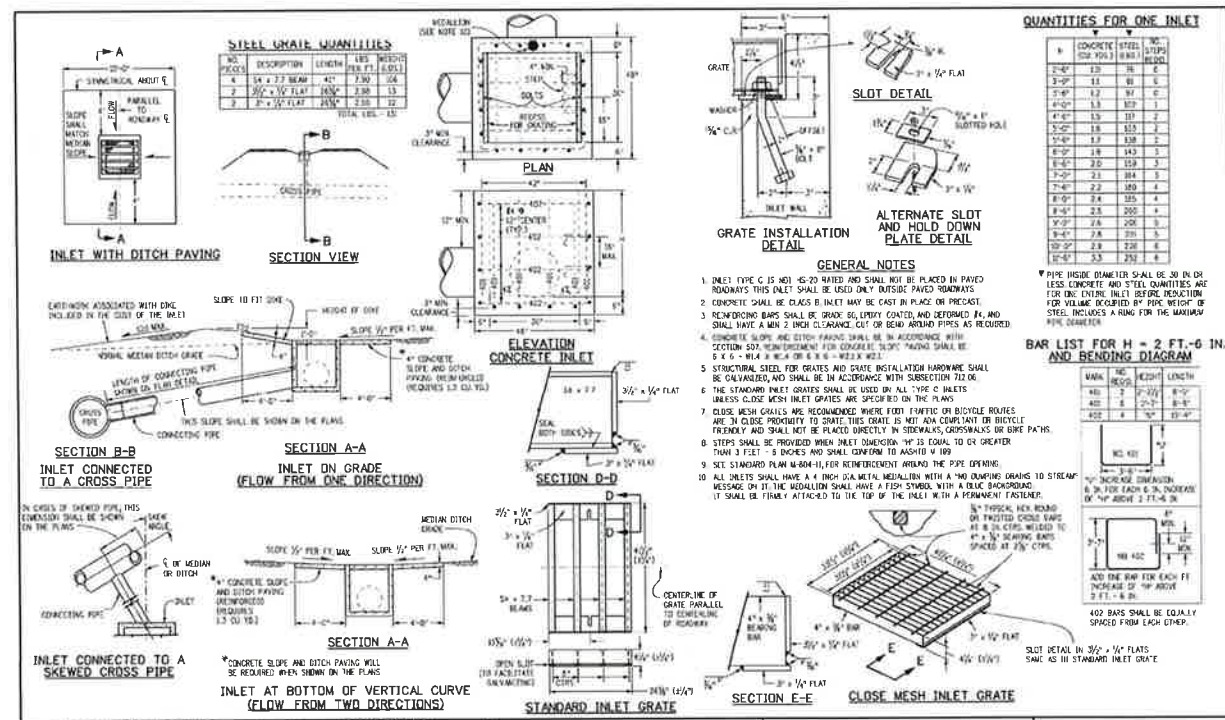




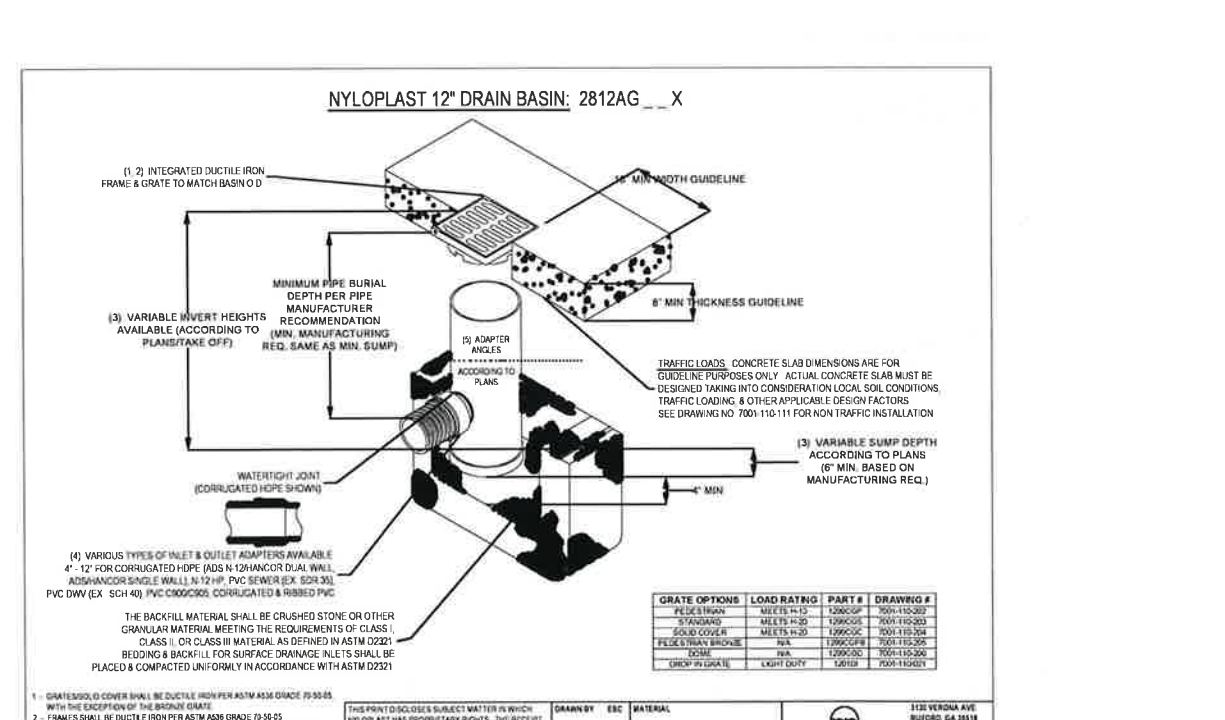
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Last Modification Date: 07/31/19	Comments: _____	Issued by the Project Development Branch: July 31, 2019		Project Sheet Number:
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CAD File Modification: 08/01/2019				



Computer File Information	Sheet Revisions	Colorado Department of Transportation	CORRUGATED	STANDARD PLAN NO.
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Designer: JDB	Checked: _____	Project Development Branch	JBK	Standard Sheet No. 1 of 1
Last Modification Date: 07/31/19	Comments: _____	Issued by the Project Development Branch: July 31, 2019		Project Sheet Number:
Customer: JDB				
CAD File Modification: 08/01/2019				

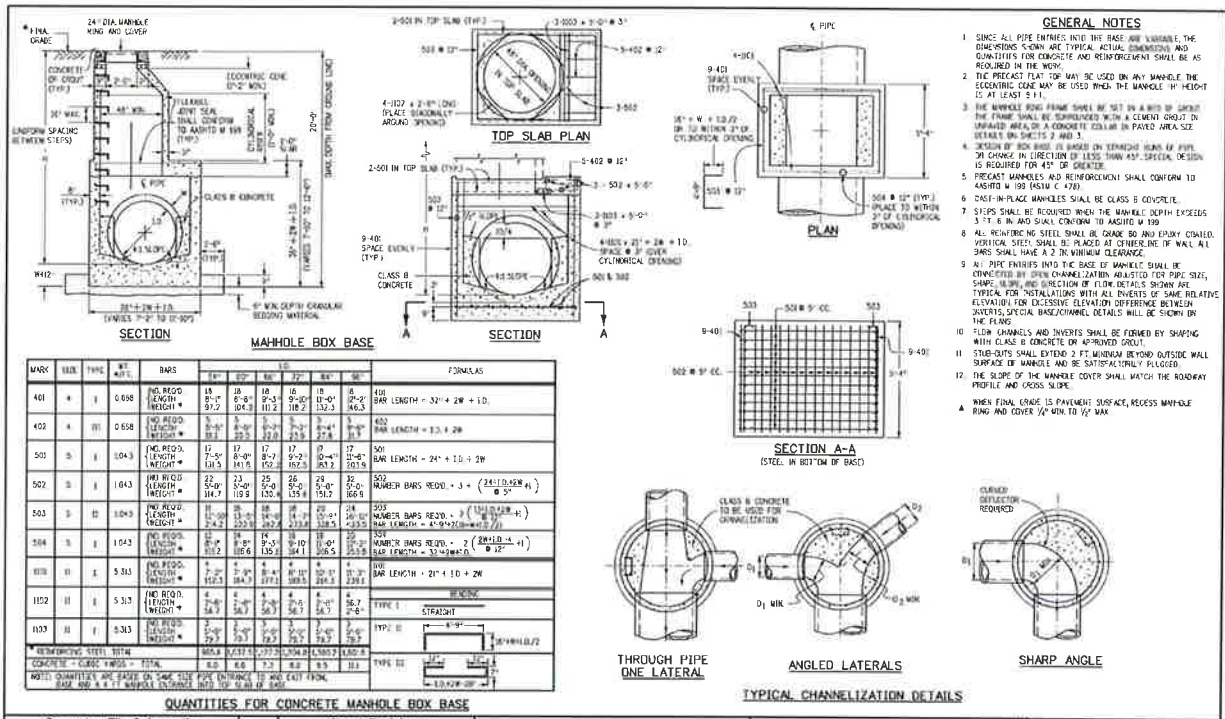


Computer File Information	Sheet Revisions	Colorado Department of Transportation	INLET, TYPE C	STANDARD PLAN NO.
Creation Code: 07/31/19	Date: _____	2629 West Harvard Place COOT #10, 2nd Floor Denver, CO 80202 Phone: 303-757-9031 FAX: 303-757-9868	M-604-10	M-604-10
Designer: JDB	Checked: _____	Project Development Branch	JBK	Standard Sheet No. 1 of 1
Last Modification Date: 07/31/19	Comments: _____	Issued by the Project Development Branch: July 31, 2019		Project Sheet Number:
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CAD File Modification: 08/01/2019				

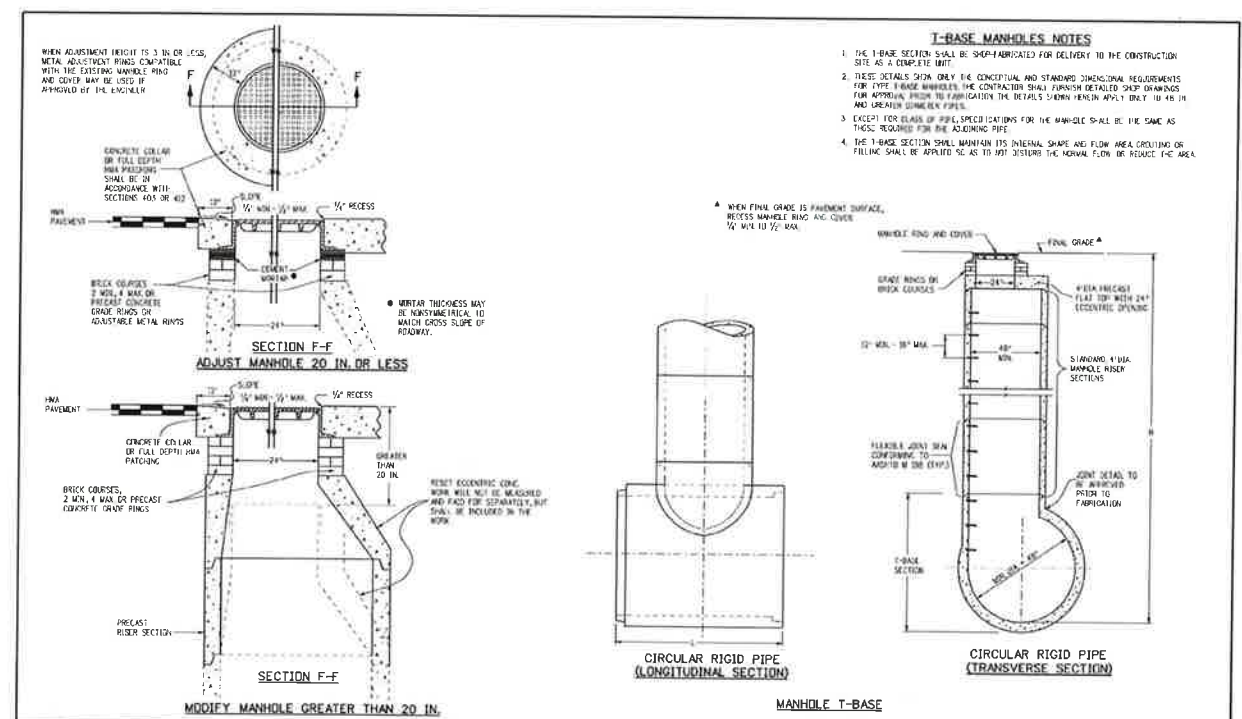


Computer File Information	Sheet Revisions	Colorado Department of Transportation	NYLOPLAST 12\"/> 	STANDARD PLAN NO.
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Designer: JDB	Checked: _____	Project Development Branch	JBK	Standard Sheet No. 1 of 1
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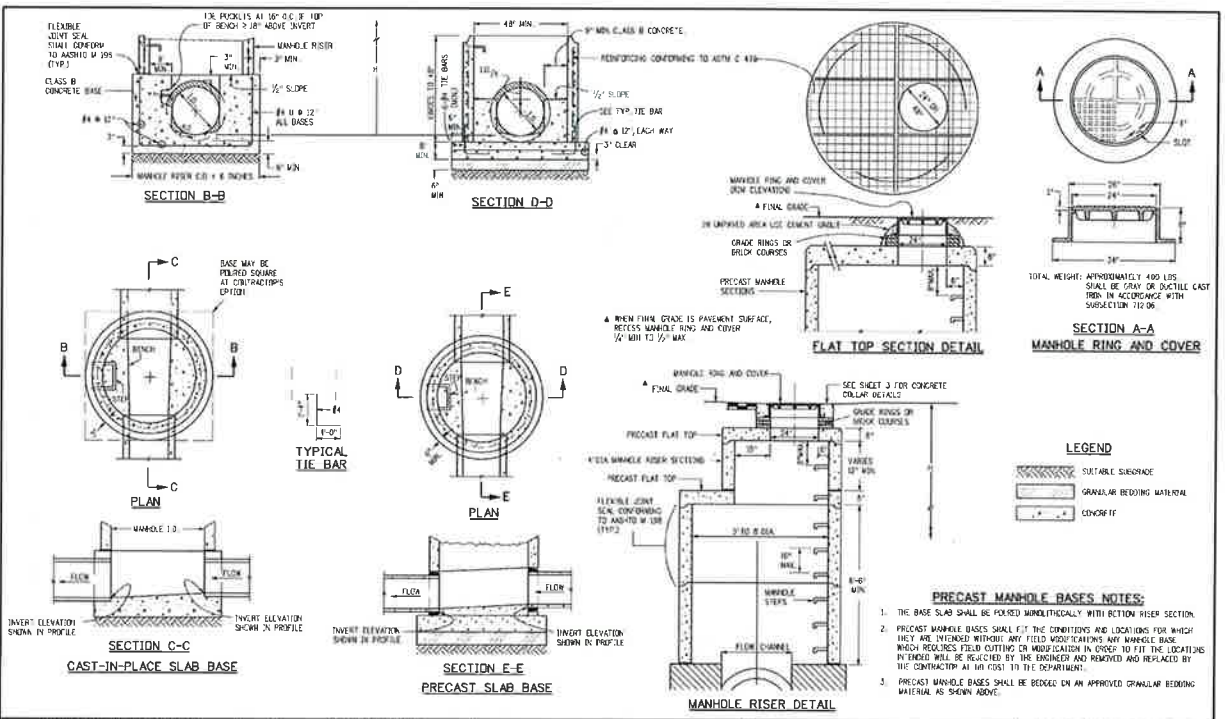




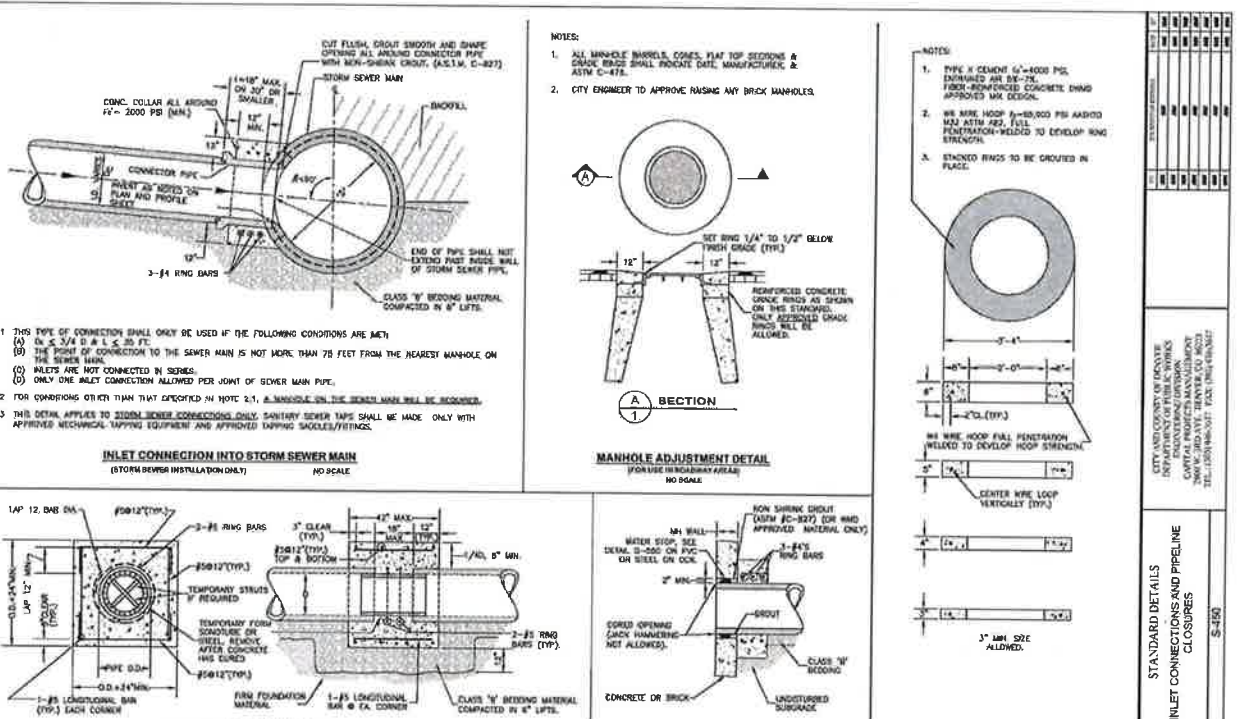
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Creation Date: 07/21/19	Designer: JMB	Date:	Comments:	2022 West Howard Place	COOT, P.O. Box 400	M-604-20	
Design: JMB	Checker: JMB			Denver, CO 80202	Phone: 303-757-9021 Fax: 303-757-9568	Standard Sheet No. 1 of 3	
Issue Modification Date: 07/21/19	Checker: JMB			Project Development Branch	JBK	Issued by the Project Development Branch: July 31, 2019	Project Sheet Number:
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Issue Modification Date: 07/21/19	Checker: JMB						
Design: JMB	Checker: JMB						
Issue Modification Date: 07/21/19	Checker: JMB						
Design: JMB	Checker: JMB						



Computer File Information		Sheet Revisions		Colorado Department of Transportation		STANDARD PLAN NO.	
Creation Date: 07/21/19	Designer: JMB	Date:	Comments:	2022 West Howard Place	COOT, P.O. Box 400	M-604-20	
Design: JMB	Checker: JMB			Denver, CO 80202	Phone: 303-757-9021 Fax: 303-757-9568	Standard Sheet No. 3 of 3	
Issue Modification Date: 07/21/19	Checker: JMB			Project Development Branch	JBK	Issued by the Project Development Branch: July 31, 2019	Project Sheet Number:
Design: JMB	Checker: JMB						
Issue Modification Date: 07/21/19	Checker: JMB						
Design: JMB	Checker: JMB						
Issue Modification Date: 07/21/19	Checker: JMB						
Design: JMB	Checker: JMB						



Computer File Information		Sheet Revisions		Colorado Department of Transportation		STANDARD PLAN NO.	
Creation Date: 07/21/19	Designer: JMB	Date:	Comments:	2022 West Howard Place	COOT, P.O. Box 400	M-604-20	
Design: JMB	Checker: JMB			Denver, CO 80202	Phone: 303-757-9021 Fax: 303-757-9568	Standard Sheet No. 2 of 3	
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Issue Modification Date: 07/21/19	Checker: JMB						
Design: JMB	Checker: JMB						



Computer File Information		Sheet Revisions		Colorado Department of Transportation		STANDARD PLAN NO.	
Creation Date: 07/21/19	Designer: JMB	Date:	Comments:	2022 West Howard Place	COOT, P.O. Box 400	M-604-20	
Design: JMB	Checker: JMB			Denver, CO 80202	Phone: 303-757-9021 Fax: 303-757-9568	Standard Sheet No. 2 of 3	
Issue Modification Date: 07/21/19	Checker: JMB			Project Development Branch	JBK	Issued by the Project Development Branch: July 31, 2019	Project Sheet Number:
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Issue Modification Date: 07/21/19	Checker: JMB						
Design: JMB	Checker: JMB						
Issue Modification Date: 07/21/19	Checker: JMB						
Design: JMB	Checker: JMB						

GRAND LAKE STREETScape PHASE 3
 STANDARD DETAILS
 PREPARED FOR: TOWN OF GRAND LAKE, CO
 DATE SUBMITTED: MAY 2019
 WWW.NV5.COM
 COLORADO SPRINGS, CO 80918
 5445 MARK DABLING BLVD., SUITE 100
 719.268.8563 TEL 303.539.8940 FAX

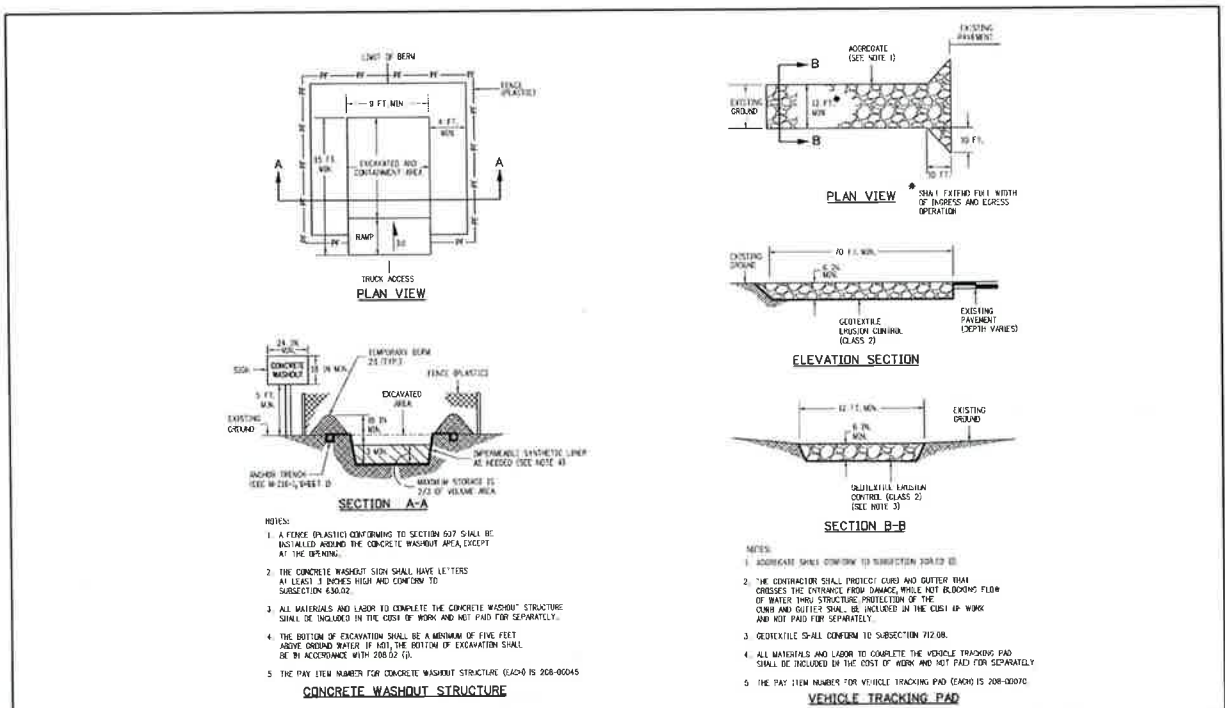
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CITY AND COUNTY OF COLORADO
 DEPARTMENT OF PUBLIC WORKS
 CAPITAL PROJECTS MANAGEMENT
 TEL: 303.733.8222 FAX: 303.733.8222

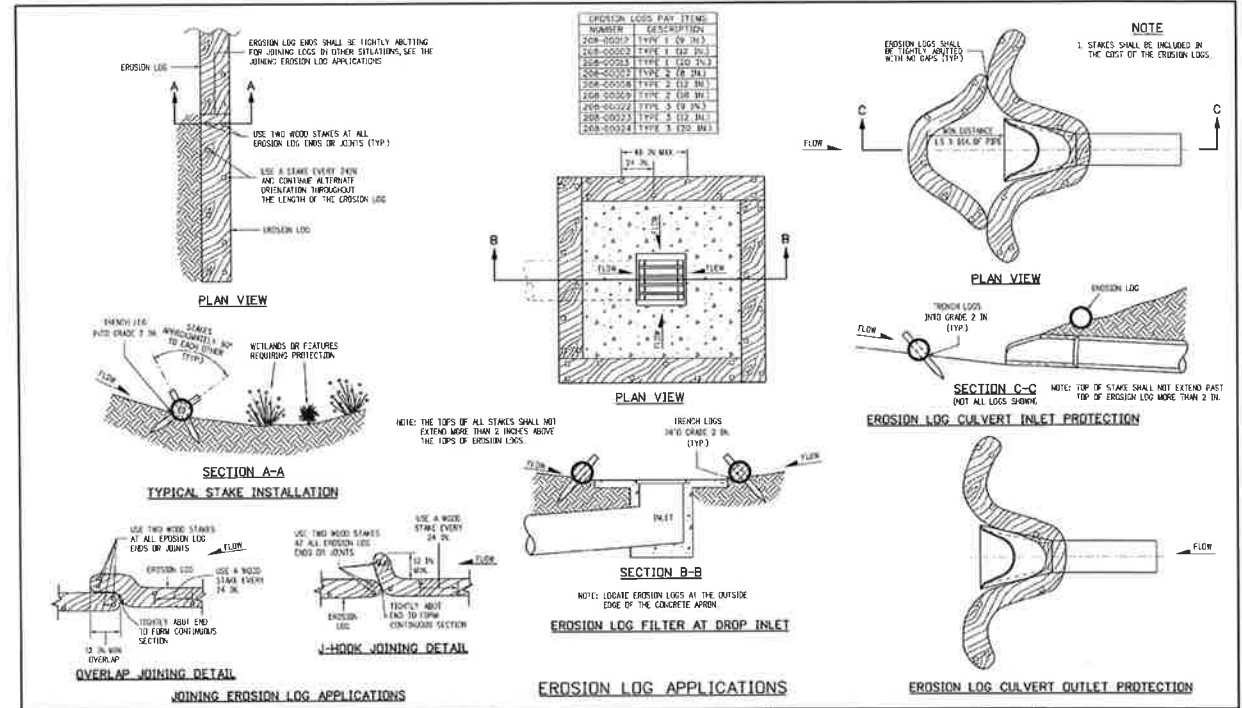
STANDARD DETAILS
 INLET CONNECTIONS AND PIPELINE CLOSURES
 S-180

SHEET NUMBER
DET-05
 SCALE
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 HORIZONTAL: AS NOTED
 JOB NUMBER
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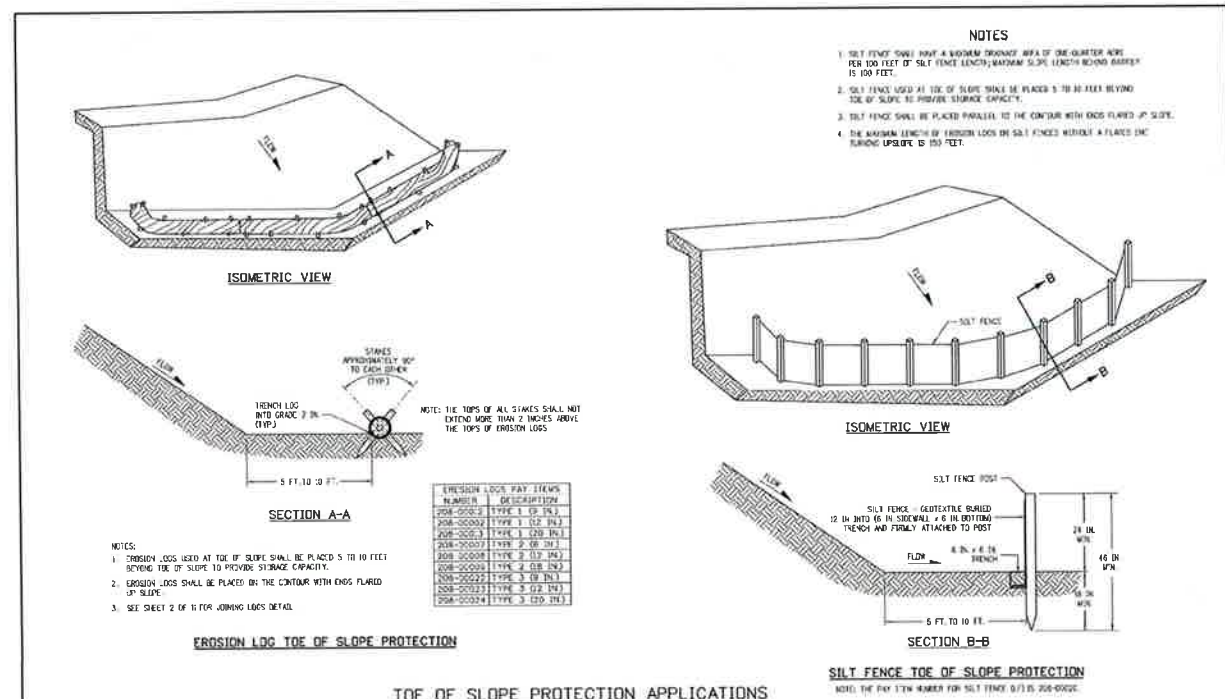




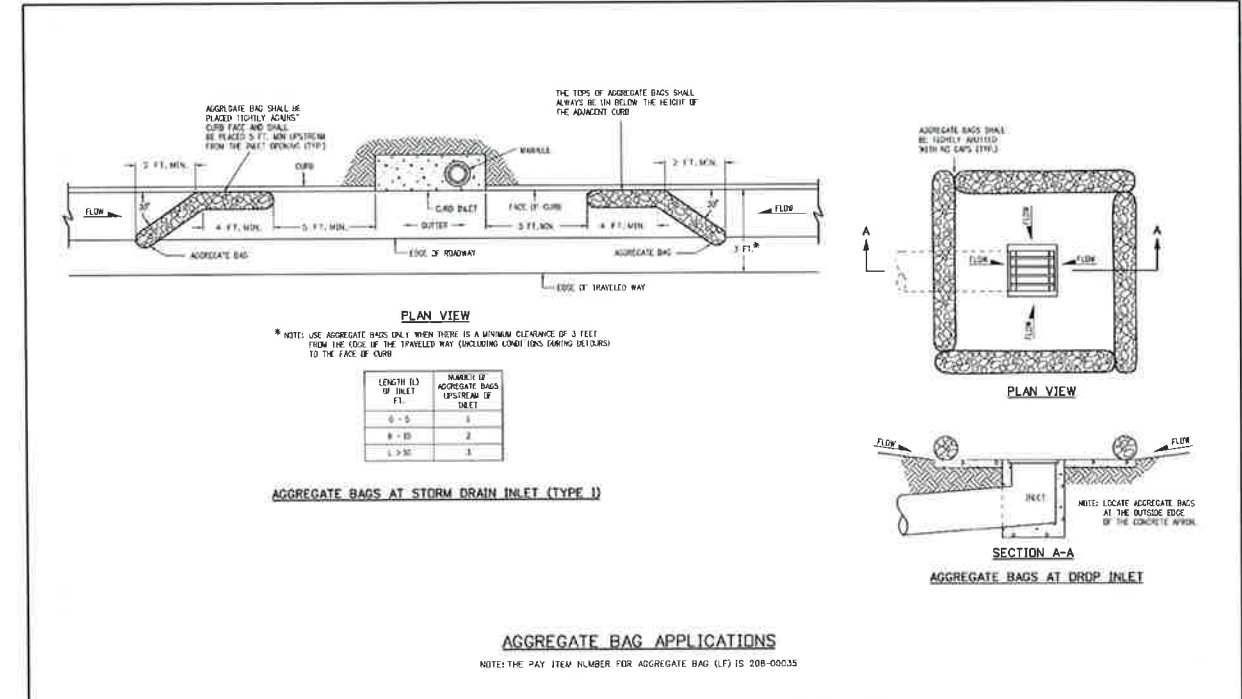
Computer File Information	Sheet Revisions	Colorado Department of Transportation	TEMPORARY EROSION CONTROL	STANDARD PLAN NO. M-208-1
Creation Date: 07/31/19 Designer: JBM Last Modification Date: 07/31/19 Customer: L.A. CAD User: M.Westhoff	Date: _____ Comments: _____	2829 West Howard Place COOT 100, 3rd Floor Denver, CO 80204 Phone: 303-757-9021 FAX: 303-757-9888 Project Development Branch JBK	Issued by the Project Development Branch July 31, 2019	Project Sheet No. 1 of 11 Project Sheet Number: _____



Computer File Information	Sheet Revisions	Colorado Department of Transportation	TEMPORARY EROSION CONTROL	STANDARD PLAN NO. M-208-1
Creation Date: 07/31/19 Designer: JBM Last Modification Date: 07/31/19 Customer: L.A. CAD User: M.Westhoff	Date: _____ Comments: _____	2829 West Howard Place COOT 100, 3rd Floor Denver, CO 80204 Phone: 303-757-9021 FAX: 303-757-9888 Project Development Branch JBK	Issued by the Project Development Branch July 31, 2019	Project Sheet No. 2 of 11 Project Sheet Number: _____



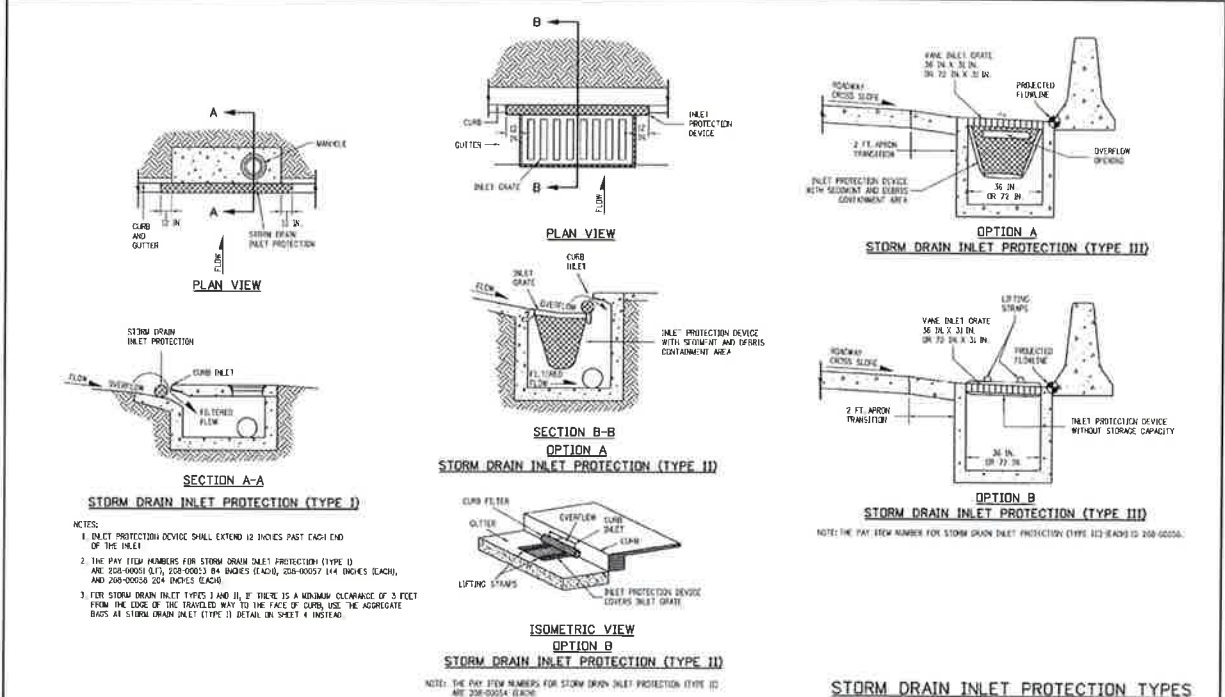
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Creation Date: 07/31/19 Designer: JBM Last Modification Date: 07/31/19 Customer: L.A. CAD User: M.Westhoff	Date: _____ Comments: _____	2829 West Howard Place COOT 100, 3rd Floor Denver, CO 80204 Phone: 303-757-9021 FAX: 303-757-9888 Project Development Branch JBK	Issued by the Project Development Branch July 31, 2019	Project Sheet No. 3 of 11 Project Sheet Number: _____



Computer File Information	Sheet Revisions	Colorado Department of Transportation	TEMPORARY EROSION CONTROL	STANDARD PLAN NO. M-208-1
Creation Date: 07/31/19 Designer: JBM Last Modification Date: 07/31/19 Customer: L.A. CAD User: M.Westhoff	Date: _____ Comments: _____	2829 West Howard Place COOT 100, 3rd Floor Denver, CO 80204 Phone: 303-757-9021 FAX: 303-757-9888 Project Development Branch JBK	Issued by the Project Development Branch July 31, 2019	Project Sheet No. 4 of 11 Project Sheet Number: _____

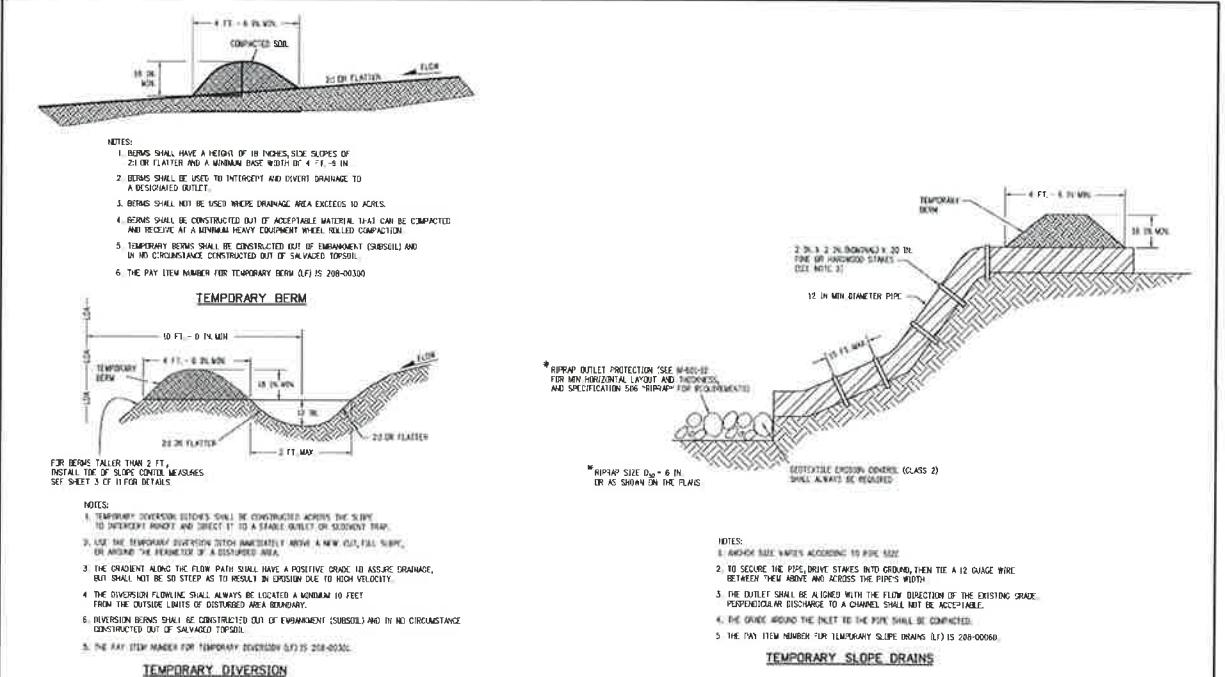
GRAND LAKE STREETSCAPE PHASE 3 STANDARD DETAILS
 PREPARED FOR: TOWN OF GRAND LAKE, CO DATE SUBMITTED: MAY 2019
 5445 MARK DABLING BLVD., SUITE 100 COLORADO SPRINGS, CO 80918
 719.268.8583 TEL 303.538.9840 FAX WWW.NV5.COM
NV5 BEYOND ENGINEERING
 SHEET NUMBER **DET-06**
 SCALE
 VERTICAL: AS NOTED
 HORIZONTAL: AS NOTED
 JOB NUMBER 223519-0000073





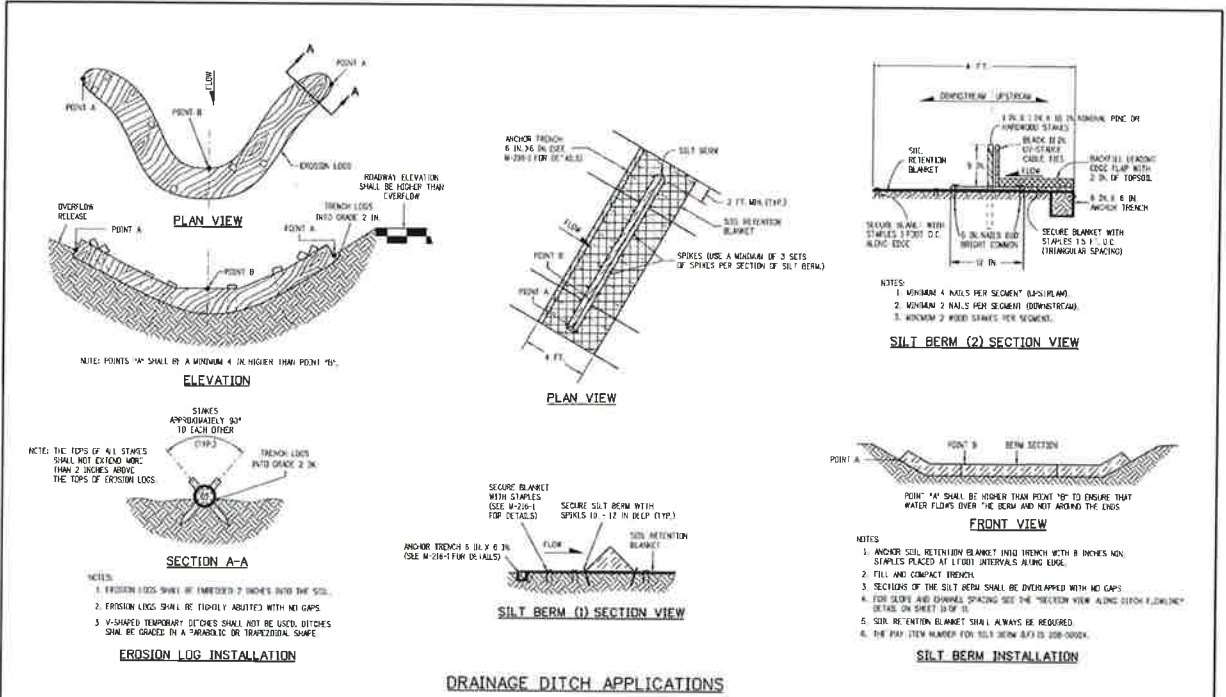
- NOTES:**
1. INLET PROTECTION DEVICE SHALL EXTEND 12 INCHES PAST EACH END OF THE INLET.
 2. THE PAY ITEM NUMBERS FOR STORM DRAIN INLET PROTECTION (TYPE I) ARE 208-0001 (L), 208-0003 (R), 208-0005 (L), 208-0007 (R), 208-0009 (L), AND 208-0011 (R) INCHES EACH, AND 208-0004 FOR INCHES EACH.
 3. FOR STORM DRAIN INLET TYPES I AND II, IF THERE IS A MINIMUM CLEARANCE OF 3 FEET FROM THE EDGE OF THE TRAVELED WAY TO THE FACE OF CURB, USE THE AGGREGATE BASES AS STORM DRAIN INLET (TYPE I) DETAIL ON SHEET 4 INSTALLED.
- NOTES:** THE PAY ITEM NUMBER FOR STORM DRAIN INLET PROTECTION (TYPE II) ARE 208-0004 (L) AND 208-0005 (R).
- NOTES:** THE PAY ITEM NUMBER FOR STORM DRAIN INLET PROTECTION (TYPE III) ARE 208-0002 (L) AND 208-0006 (R).

Computer File Information		Sheet Revisions		Colorado Department of Transportation		TEMPORARY EROSION CONTROL		STANDARD PLAN NO. M-208-1	
Creation Date: 07/31/19	Designer: JBA	Date:	Comments:	2829 West Howard Place	CDOT HQ, 5th Floor	Denver, CO 80204	Phone: 303-757-9824 FAX: 303-757-9868	Project Development Branch	JBK
Design: JBA	Checker: JBA	Issue:	Issue:	Project Development Branch	JBK	Issued by the Project Development Branch July 31, 2019	Project Sheet Number:	Standard Sheet No. 5 of 11	



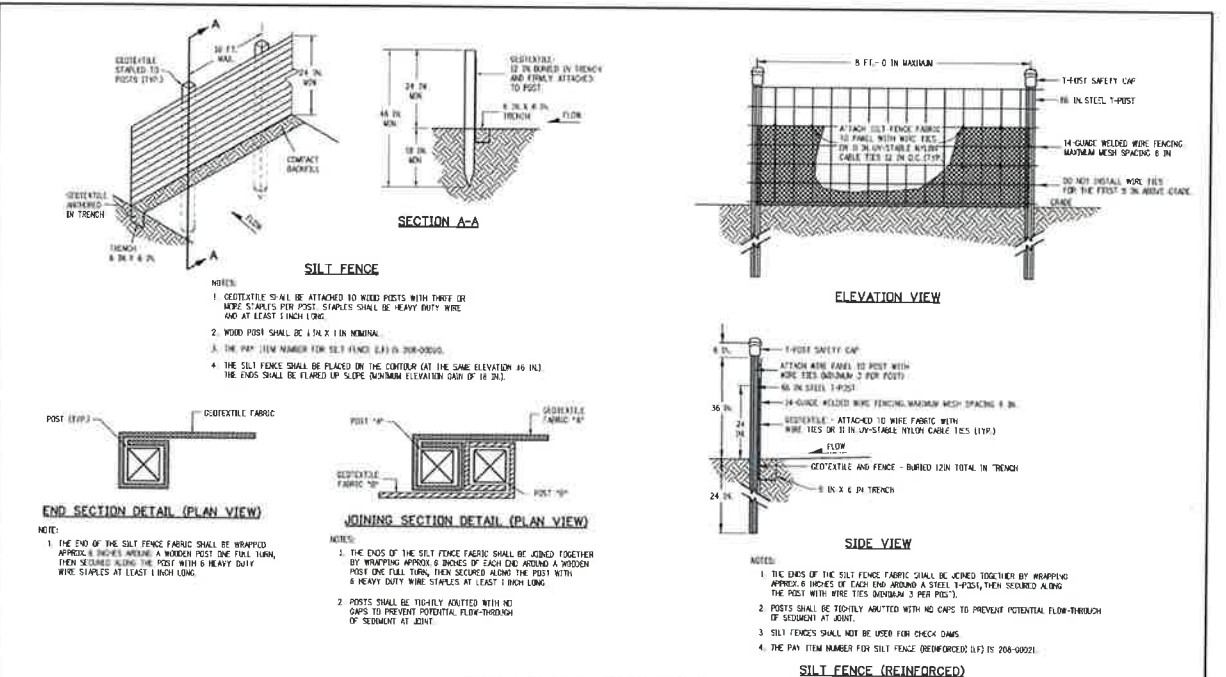
- NOTES:**
1. BERMS SHALL HAVE A HEIGHT OF 18 INCHES, 5% SLOPE OF 2:1 ON FLAT AND A MINIMUM BASE WIDTH OF 4' x 4' x 18 IN.
 2. BERMS SHALL BE USED TO INTERCEPT AND DIVERT DRAINAGE TO A DESIGNATED OUTLET.
 3. BERMS SHALL NOT BE USED WHERE DRAINAGE AREA EXCEEDS 10 ACRES.
 4. BERMS SHALL BE CONSTRUCTED OUT OF ACCEPTABLE MATERIAL THAT CAN BE COMPACTED AND RESISTS A MINIMUM HEAVY EQUIPMENT WHEEL ROLLING COMPACTION.
 5. TEMPORARY BERMS SHALL BE CONSTRUCTED OUT OF EMPAKMENT (SUBSOL) AND IN NO CIRCUMSTANCES CONSTRUCTED OUT OF SALVAGED TOPSOIL.
 6. THE PAY ITEM NUMBER FOR TEMPORARY BERM (L) IS 208-0030.
- NOTES:**
1. APPROXIMATE WIDTHS ACCORDING TO PIPE SIZE.
 2. TO SECURE THE PIPE DRIVE STAKES INTO GROUND, THEN TIE 4 1/2 GAUGE WIRE BETWEEN THEM ABOVE AND ACROSS THE PIPE'S WIDTH.
 3. THE OUTLET SHALL BE ALIGNED WITH THE FLOW DIRECTION OF THE EXISTING GRADE. PERPENDICULAR DISCHARGE TO A CHANNEL SHALL NOT BE ACCEPTABLE.
 4. THE GRADE AROUND THE INLET TO THE PIPE SHALL BE COMPACTED.
 5. THE PAY ITEM NUMBER FOR TEMPORARY SLOPE DRAINS (L) IS 208-0050.
- NOTES:**
1. TEMPORARY DIVERSION DITCHES SHALL BE CONSTRUCTED ACROSS THE SLOPE TO INTERCEPT RUNOFF AND DIRECT IT TO A STABLE OUTLET OR SEDIMENT TRAP.
 2. ON A SLOPE, THE PROVISION OF A DISBURSED AREA.
 3. THE CRADLE ALONG THE FLOW PATH SHALL HAVE A POSITIVE SLOPE TO ASSURE DRAINAGE, BUT SHALL NOT BE SO STEEP AS TO RESULT IN EXCESSIVE SLOPE TO HIGH VELOCITY.
 4. THE DIVERSION FLOWLINE SHALL ALWAYS BE LOCATED A MINIMUM 10 FEET FROM THE OUTSIDE LIMITS OF DISTURBED AREA BOUNDARY.
 5. DIVERSION BERMS SHALL BE CONSTRUCTED OUT OF EMPAKMENT (SUBSOL) AND IN NO CIRCUMSTANCES CONSTRUCTED OUT OF SALVAGED TOPSOIL.
 6. THE PAY ITEM NUMBER FOR TEMPORARY DIVERSION (L) IS 208-0035.

Computer File Information		Sheet Revisions		Colorado Department of Transportation		TEMPORARY EROSION CONTROL		STANDARD PLAN NO. M-208-1	
Creation Date: 07/31/19	Designer: JBA	Date:	Comments:	2829 West Howard Place	CDOT HQ, 5th Floor	Denver, CO 80204	Phone: 303-757-9824 FAX: 303-757-9868	Project Development Branch	JBK
Design: JBA	Checker: JBA	Issue:	Issue:	Project Development Branch	JBK	Issued by the Project Development Branch July 31, 2019	Project Sheet Number:	Standard Sheet No. 7 of 11	



- NOTES:** POINTS "A" SHALL BE A MINIMUM 4' IN LOWER THAN POINT "B".
- NOTES:** THE TIPS OF ALL STAPLES SHALL NOT EXTEND MORE THAN 2 INCHES ABOVE THE TOPS OF EROSION LOGS.
- NOTES:**
1. EROSION LOGS SHALL BE EMBEDDED 2 INCHES INTO THE SOIL.
 2. EROSION LOGS SHALL BE TIGHTLY ADJUTED WITH NO GAPS.
 3. V-SHAPED TEMPORARY SLOPES SHALL NOT BE USED. DITCHES SHALL BE GRADED IN A PARABOLIC OR TRIANGULAR SHAPE.
- NOTES:**
1. ANCHOR TRENCH 6 IN. WIDE BY 6 IN. DEEP (SEE M-208-1 FOR DETAILS).
 2. STAPLES APPROXIMATELY 8" TO EACH OTHER.
 3. TRENCH LOGS INTO GRADE 2 IN.
- NOTES:**
1. ANCHOR 4' WIDE PER SECTION (SEE PLAN).
 2. ANCHOR 2' WIDE PER SECTION (DOWNSTREAM).
 3. ANCHOR 2' WIDE STAPLES PER SECTION.
- NOTES:**
1. ANCHOR SILT RETENTION BLANKET INTO TRENCH WITH 8 INCHES NON-STAPLES PLACED AT 1' TO 1'1/2' INTERVALS ALONG EDGE.
 2. FILL AND COMPACT TRENCH.
 3. SECTIONS OF THE SILT BERM SHALL BE OVERLAPPED WITH NO GAPS.
 4. FOR SLOPE AND CHANNEL SPACING SEE THE "REVISION VIEW" ALONG WITH FLOWLINE DETAILS ON SHEET 5 OF 11.
 5. SOIL RETENTION BLANKET SHALL ALWAYS BE REQUIRED.
 6. THE PAY ITEM NUMBER FOR SILT BERM (L) IS 208-0004.

Computer File Information		Sheet Revisions		Colorado Department of Transportation		TEMPORARY EROSION CONTROL		STANDARD PLAN NO. M-208-1	
Creation Date: 07/31/19	Designer: JBA	Date:	Comments:	2829 West Howard Place	CDOT HQ, 5th Floor	Denver, CO 80204	Phone: 303-757-9824 FAX: 303-757-9868	Project Development Branch	JBK
Design: JBA	Checker: JBA	Issue:	Issue:	Project Development Branch	JBK	Issued by the Project Development Branch July 31, 2019	Project Sheet Number:	Standard Sheet No. 6 of 11	



- NOTES:**
1. GEOTEXTILE TO BE ATTACHED TO WOOD POSTS WITH THREE OR MORE STAPLES PER POST. STAPLES SHALL BE HEAVY DUTY WIRE AND AT LEAST 1 INCH LONG.
 2. WOOD POST SHALL BE 1 IN. X 2 IN. MINIMUM.
 3. THE PAY ITEM NUMBER FOR SILT FENCE (L) IS 208-0005.
 4. THE SILT FENCE SHALL BE PLACED ON THE CENTER (AT THE SAME ELEVATION AS IN) THE ENDS SHALL BE FLARED UP SLOPE A MINIMUM ELEVATION GAIN OF 1:2.
- NOTES:**
1. THE ENDS OF THE SILT FENCE FABRIC SHALL BE JOINED TOGETHER BY WRAPPING APPROX 6 INCHES OF EACH END AROUND A WOOD POST, THEN SECURED ALONG THE POST WITH A HEAVY DUTY WIRE STAPLES AT LEAST 1 INCH LONG.
 2. POSTS SHALL BE TIGHTLY ADJUTED WITH NO GAPS TO PREVENT POTENTIAL FLOW-THROUGH OF SEDIMENT AT JOINT.
 3. SILT FENCES SHALL NOT BE USED FOR CHECK DAMS.
 4. THE PAY ITEM NUMBER FOR SILT FENCE (REINFORCED) (L) IS 208-0002.

Computer File Information		Sheet Revisions		Colorado Department of Transportation		TEMPORARY EROSION CONTROL		STANDARD PLAN NO. M-208-1	
Creation Date: 07/31/19	Designer: JBA	Date:	Comments:	2829 West Howard Place	CDOT HQ, 5th Floor	Denver, CO 80204	Phone: 303-757-9824 FAX: 303-757-9868	Project Development Branch	JBK
Design: JBA	Checker: JBA	Issue:	Issue:	Project Development Branch	JBK	Issued by the Project Development Branch July 31, 2019	Project Sheet Number:	Standard Sheet No. 8 of 11	

GRAND LAKE STREETScape PHASE 3 STANDARD DETAILS

PREPARED FOR: TOWN OF GRAND LAKE, CO DATE SUBMITTED: MAY 2019

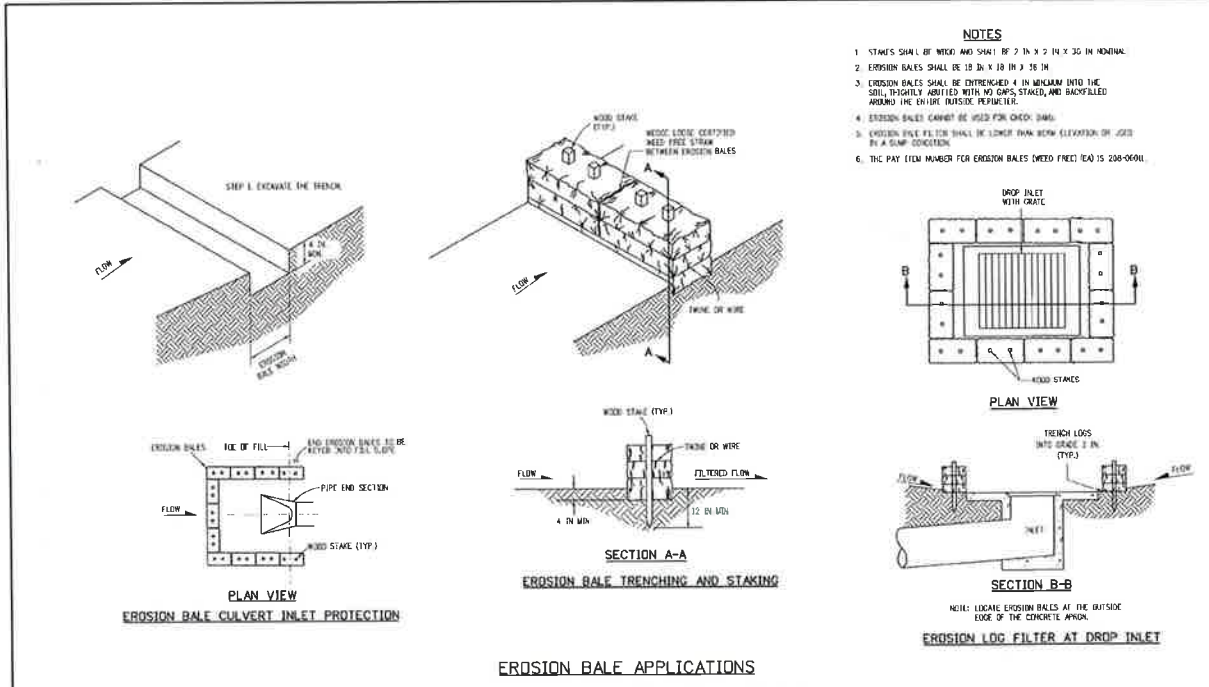


BEYOND ENGINEERING
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SHEET NUMBER	DET-07
SCALE	VERTICAL: AS NOTED HORIZONTAL: AS NOTED
JOB NUMBER	223519-000073



CAUTION
 The engineer preparing these plans will not be responsible for any liability for unauthorized changes to or use of these plans. Any such changes or use must be approved by the preparer of these plans.



Computer File Information		Sheet Revisions		Colorado Department of Transportation		TEMPORARY EROSION CONTROL		STANDARD PLAN NO.	
Creation Date: 07/21/19	07/21/19	07/21/19		2829 West Harvard Place		6001 P.O. Box Four		M-208-1	
Designer: JBR	JBR			Denver, CO 80204		Phone: 303-757-9028 FAX: 303-757-9868		Standard Sheet No. 10 of 11	
Last Modification: 07/21/19	07/21/19			Project Development Branch	JBK	Issued by the Project Development Branch: July 31, 2019		Project Sheet Number:	
Drawn: JBR	JBR								
CAD File Modification: None	None								

NO.	BY	DATE	REVISION
1	J.A.	07/22/2020	ISSUED FOR CONSTRUCTION
2	J.A.	07/22/2020	ISSUED FOR CONSTRUCTION

GRAND LAKE STREETScape PHASE 3 STANDARD DETAILS

PREPARED FOR: TOWN OF GRAND LAKE, CO DATE SUBMITTED: MAY 2019

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SHEET NUMBER
DET-08

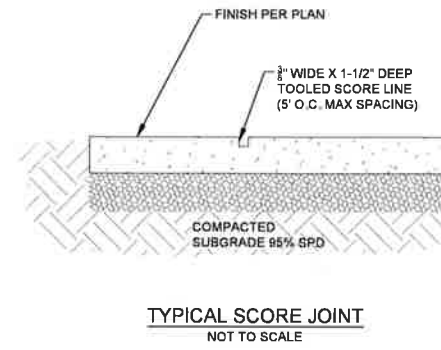
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JOB NUMBER
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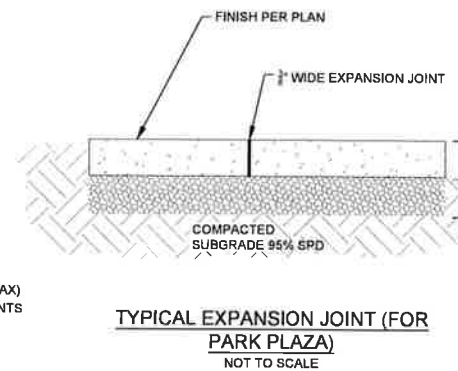


CAUTION
 The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans unless they are specifically approved by the engineer on these plans.

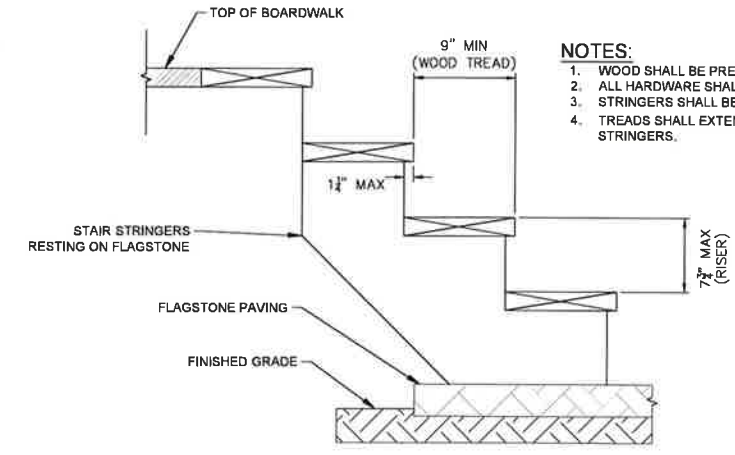
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NOTE:
 1. USE 1/2\"/>



NOTE:
 1. PROVIDE CONSTRUCTION JOINTS BETWEEN ALL POURS SCORE JOINT (NOT TO EXCEED 10')



NOTES:
 1. WOOD SHALL BE PRESSURE TREATED.
 2. ALL HARDWARE SHALL BE GALVANIZED.
 3. STRINGERS SHALL BE A MAXIMUM OF 18\"/>



Know what's below.
 Call before you dig.
 CALL 7 BUSINESS DAYS IN ADVANCE BEFORE YOU DIG. CEASE OR EXCAVATE FOR THE MARKING OF UNDERGROUND UTILITIES.

NO.	BY	DATE	REVISIONS
1	A.L.	07/22/2020	ISSUED FOR CONSTRUCTION
2	A.L.	08/27/2020	ISSUED FOR CONSTRUCTION

CAUTION
 The engineer preparing these plans will not be responsible for any errors or omissions or for any consequences arising from the use of these plans. The contractor shall be responsible for obtaining all necessary permits and must be approved by the engineer of these plans.

GRAND LAKE STREETSCAPE PHASE 3 LANDSCAPE, IRRIGATION, & LIGHTING DETAILS

PREPARED FOR: TOWN OF GRAND LAKE, CO DATE SUBMITTED: MAY 2019



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SHEET NUMBER
DET-09

SCALE
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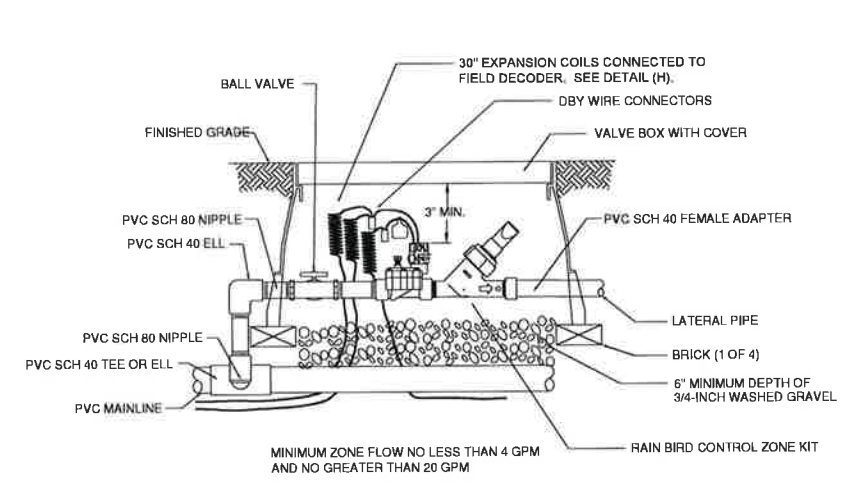
JOB NUMBER
 223519-000073

IRRIGATION SCHEDULE: Equipment Schedule:

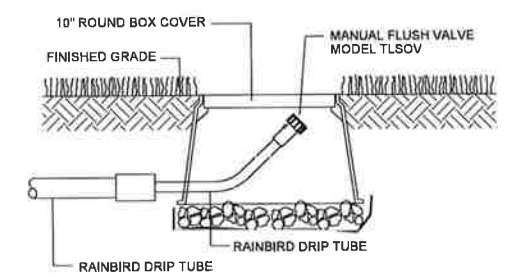
SYM.	SIZE	DESCRIPTION/REMARKS
●	1.00"	FEBCO 825YA Reduced Pressure Zone backflow preventer with air gap and funnel attachments. Installed per manufacturer's specifications.
⊕		RAINBIRD XCZ-PRB-100-COM Drip Control Zone Kit for drip zones. Refer to watering schedule below for proper valve application per drip zone. All drip zone valve to have individual field decoder for use with Two-Wire system.
○	1.00"	RAINBIRD Model #441RC Quick Coupling Valve

1	VALVE NO.
1" 10'	EST. GPM
	VALVE SIZE
1.50"	Class 200 PVC Mainline (BOE, NSF Rated)
1.00"	Class 200 PVC Lateral Line (BOE, NSF Rated)
4.00"	Class 200 PVC Sleeve (TYP)
0.75"	NETAFIM TECHLINE CV Dripline #TLHCVXR5-12,

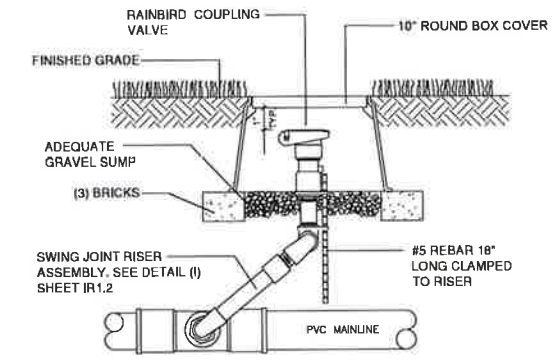
- Notes:**
- Precipitation Rate is the average precipitation for this zone expressed in inches per hour.
 - Run Time (i.e. R T) is the required operating time needed to apply 1.25 inches of water per week for sod areas.
 - Drawing is diagrammatic, precise placement of equipment may not be possible as indicated. Field changes which do not alter design intent may be performed by installer.
 - Quantities which can be determined graphically from the drawings prevail over scheduled quantities.
 - Run Times are for a three (3) day watering schedule.
 - All shrubs to be irrigated using landscape dripline. There shall be no spaghetti tubing used to water shrubs.
 - All irrigation zone laterals not labeled shall be 1" in size.
 - All valve box covers and round box lids to be stamped/branded with the appropriate function (i.e. QC for Quick Coupler) or with the appropriate controller and zone number as programmed (i.e. A01). Rainbird Valve Boxes.
 - Drip lines shall be buried 2" using CV tubing TLCVA-12 and staked every 2' to 3' with 6" soil staples.
 - Before turning the system over to the owner the backflow shall be tested by a Colorado certified tester.
 - 50 minute runtime equals .35 inches per hour



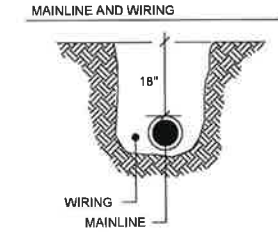
XCZ-PRB-100-COM CONTROL ZONE KIT
NOT TO SCALE



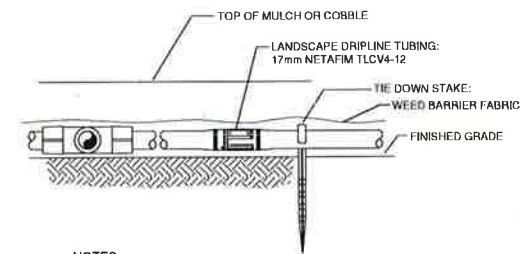
DRIP FLUSHING END CAP DETAIL
NOT TO SCALE



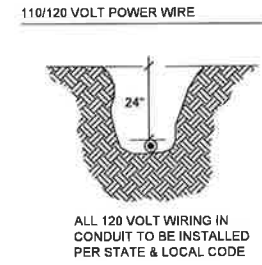
STAKED QCV DETAIL
NOT TO SCALE



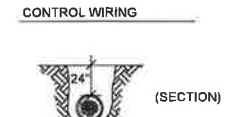
PVC PIPE TRENCHING DETAIL
NOT TO SCALE



LANDSCAPE DRIPLINE ON GRADE
NOT TO SCALE



WIRE TRENCHING DETAIL
NOT TO SCALE



PROVIDE PVC CONDUIT FOR WIRES WHEN ALONG SIDE MAINLINE SLEEVE BENEATH WALKS OR PAVEMENT.



BAND 20" LOOP OF WIRES IN ALL CHANGES OF DIRECTION GREATER THAN 30 DEGREES. UNTIE LOOPS AFTER CONNECTIONS ARE MADE

- NO PIPING SHALL BE INSTALLED WITH LESS THAN 12" LATERAL CLEARANCE (MIN. 6" SEPARATION IN SHARED TRENCH).
- INSTALL ALL MAINLINE AND LATERAL LINE PIPING PER SPECIFICATIONS AND IN FULL ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS
- DEPTHS INDICATED ARE MINIMUM DEPTHS TO TOP OF PIPELINE AND NOT TRENCH DEPTH.
- COMMON WIRE SHALL BE PRESENT IN ALL MAINLINE TRENCHES (TO BE USED AS 'TRACER' BY MAINTENANCE).
- WIRING AND PIPING SHALL BE INSTALLED IN SEPARATE SLEEVES AT LOCATIONS NOTED ON DRAWINGS.
- SLEEVE MINIMUM SIZING SHALL BE DOUBLE THE BUNDLE OR PIPE DIAMETER OR AS INDICATED ON THE DRAWINGS. STAMP "S" ON CURB OR CONCRETE AT SLEEVE LOCATIONS.

NO.	BY	DATE	REVISIONS
1	AL	07/22/2020	ISSUED FOR CONSTRUCTION
2	AL	07/22/2020	

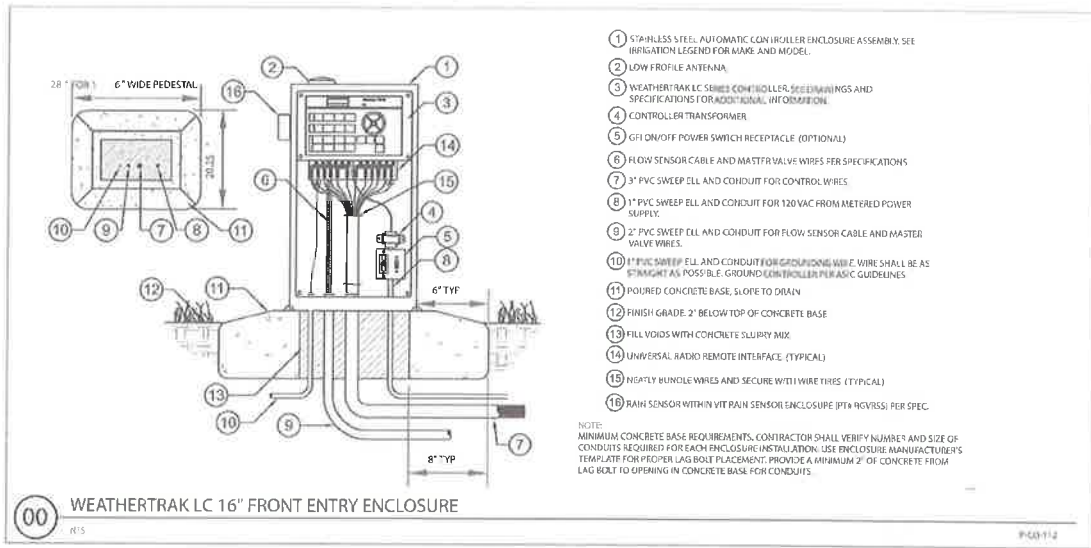
GRAND LAKE STREETSCAPE PHASE 3 LANDSCAPE, IRRIGATION, & LIGHTING DETAILS

PREPARED FOR: TOWN OF GRAND LAKE, CO DATE SUBMITTED: MAY 2019
 5445 MARK DABLING BLVD., SUITE 100 COLORADO SPRINGS, CO 80918
 WWW.NV5.COM
 719.268.8563 TEL. 303.539.8640 FAX

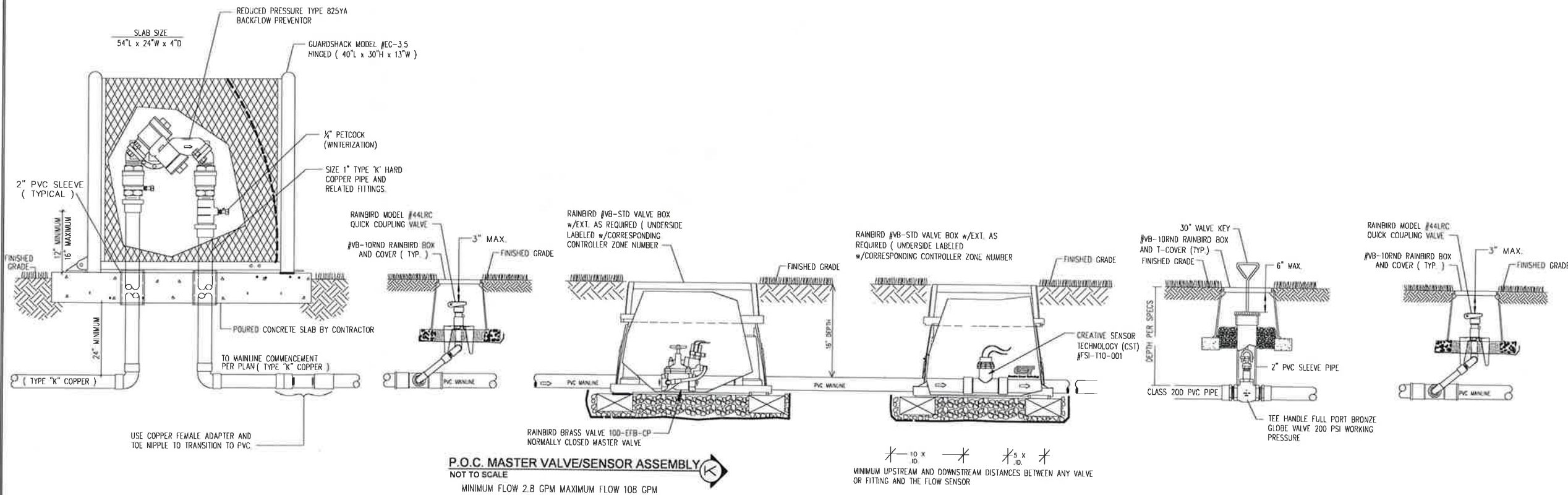


SHEET NUMBER	DET-10
SCALE	VERTICAL: AS NOTED HORIZONTAL: AS NOTED
JOB NUMBER	223519-000073





WEATHERTRAK LC 16" FRONT ENTRY ENCLOSURE
 NOT TO SCALE



10 x ID * * *
 5 x ID * * *
 MINIMUM UPSTREAM AND DOWNSTREAM DISTANCES BETWEEN ANY VALVE OR FITTING AND THE FLOW SENSOR

NO.	BY	DATE	REVISIONS
1	A.L.	07/27/2020	ISSUED FOR BID
2	A.L.	08/27/2020	ISSUED FOR CONSTRUCTION

GRAND LAKE STREETScape PHASE 3
 LANDSCAPE, IRRIGATION, & LIGHTING
 DETAILS

N|V5
 BEYOND ENGINEERING
 COLORADO SPRINGS, CO 80918
 WWW.NV5.COM
 5445 MARK DABLING BLVD, SUITE 100
 719.288.8583 TEL. 303.538.9840 FAX



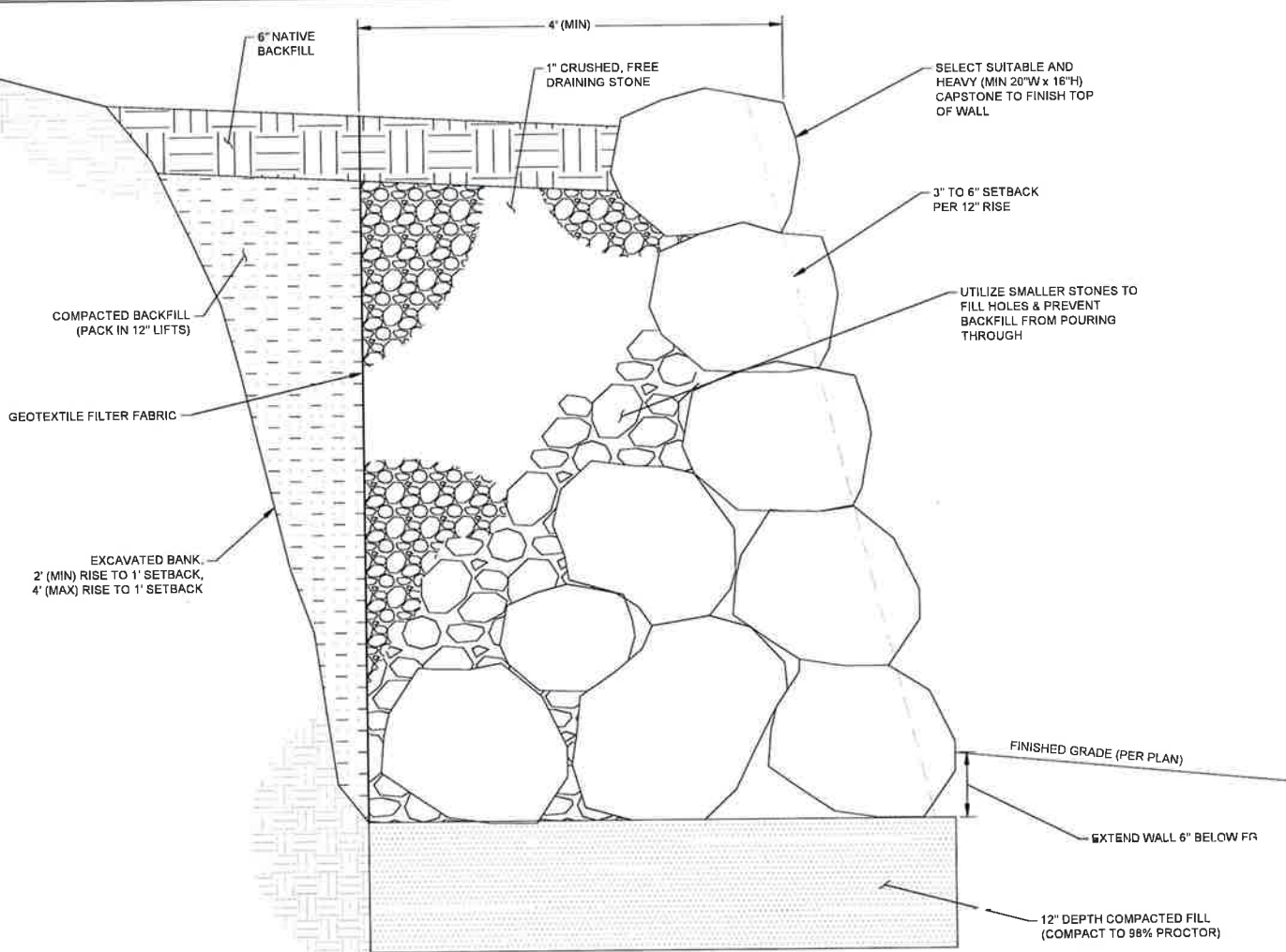
SHEET NUMBER	DET-11
SCALE	HORIZONTAL: AS NOTED VERTICAL: AS NOTED
JOB NUMBER	223519-000073

CAUTION
 The engineer responsible for these plans will not be responsible for or liable for unauthorized changes to these plans. All changes to the plans must be in writing and must be approved by the engineer of these plans.

DATE SUBMITTED: MAY 2019
 PREPARED FOR: TOWN OF GRAND LAKE, CO

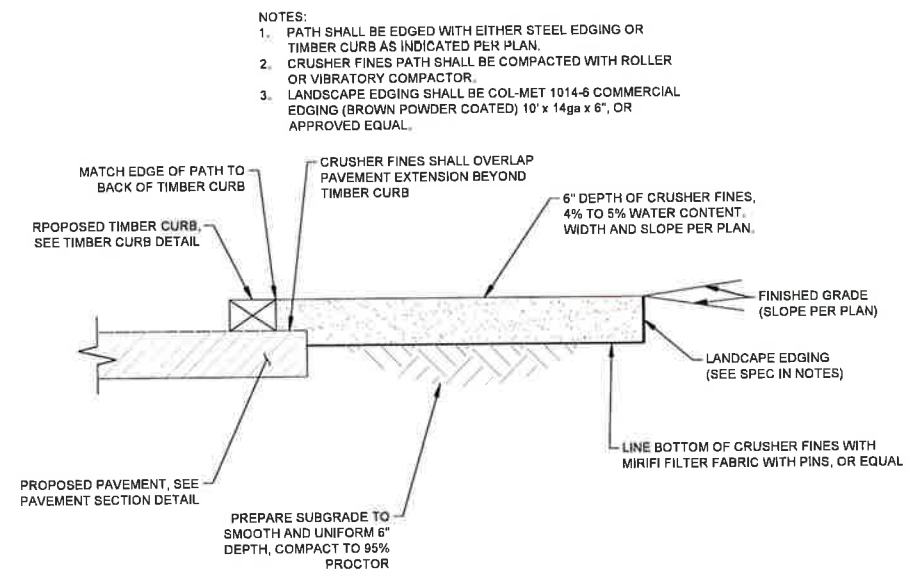


Know what's below.
 Call before you dig.
 CALL 2 BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE OR EXCAVATE FOR THE MARKING OF UNDERGROUND UTILITIES.



- NOTES:
1. FILTER FABRIC SHALL BE SRW SB3 SPUNBOND POLYPROPYLENE GEOTEXTILE, OR APPROVED EQUAL.
 2. DRY STACKED BOULDERS SHALL BE MINIMUM 20\"/>

DRY-STACK BOULDER WALL DETAIL
NOT TO SCALE



- NOTES:
1. PATH SHALL BE EDGED WITH EITHER STEEL EDGING OR TIMBER CURB AS INDICATED PER PLAN.
 2. CRUSHER FINES PATH SHALL BE COMPACTED WITH ROLLER OR VIBRATORY COMPACTOR.
 3. LANDSCAPE EDGING SHALL BE COL-MET 1014-6 COMMERCIAL EDGING (BROWN POWDER COATED) 10\"/>

CRUSHER FINES PATH SECTION DETAIL
NOT TO SCALE

MODEL	COLOR	MOUNTING SOURCE	LIGHT SOURCE				NOTES
			INC	CF	HQ (W & H)	LED	
MC20	40, 41, 42, 43, 44	Page 40-45 for arm extension	100W	28, 32 or 42W	36, 50, 70, 100 or 150 W"	27W	
MC20	45, 46, 48, 49, 50	Page 40-45 for post riser & poles	100W	28, 32 or 42W	36, 50, 70, 100 or 150 W"	27W	See page 17 for ACCESSORIES
MC12E1	51, 52, 53, 54, 55	Page 46 for stems, risers & canopy	100W	28, 32 or 42W	N/A	27W	See page 18 for SLAM OPTIONS
	57, 58, 59, 60, 61	Page 46 for collars & chain					
	62, 63, 64, 65, 67	Page 46 for mounting holes					

STREET LIGHT FIXTURE DETAIL
NOT TO SCALE

- NOTES:
1. LUMINAIRES TO BE MODEL MC20/61/PM70/61 /INC/PR3/61 (MODEL/COLOR/MOUNTING SOURCE AND COLOR/LIGHT SOURCE/GLOBE). THE POLE SHALL BE TYPE A, CATALOG 3AAP12. THE POLE AND LUMINAIRE SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS.

GRAND LAKE STREETSCAPE PHASE 3
LANDSCAPE, IRRIGATION, & LIGHTING
DETAILS

PREPARED FOR: TOWN OF GRAND LAKE, CO DATE SUBMITTED: MAY 2019

N|V|S
BEYOND ENGINEERING
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SHEET NUMBER
DET-12

SCALE
VERTICAL: AS NOTED
HORIZONTAL: AS NOTED

JOB NUMBER
223519-0000073



CAUTION: The engineer preparing these plans will not be responsible for any errors or omissions. All changes to the plans must be in writing and must be approved by the preparer of these plans.