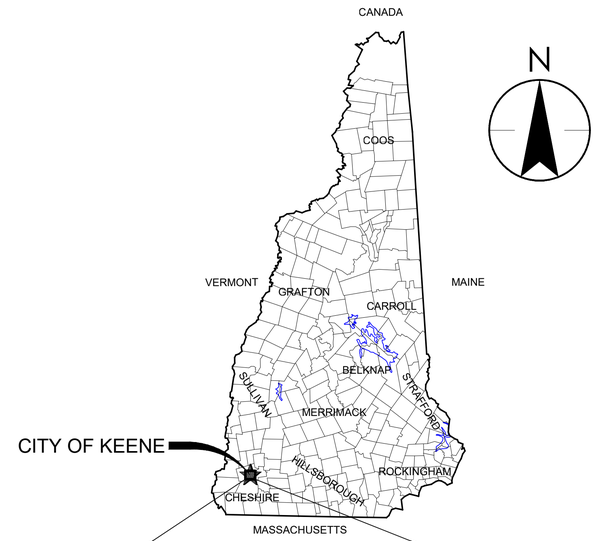
Stantec

DEPARTMENT OF PUBLIC WORKS
CITY OF KEENE, NH
COUNTY OF CHESHIRE

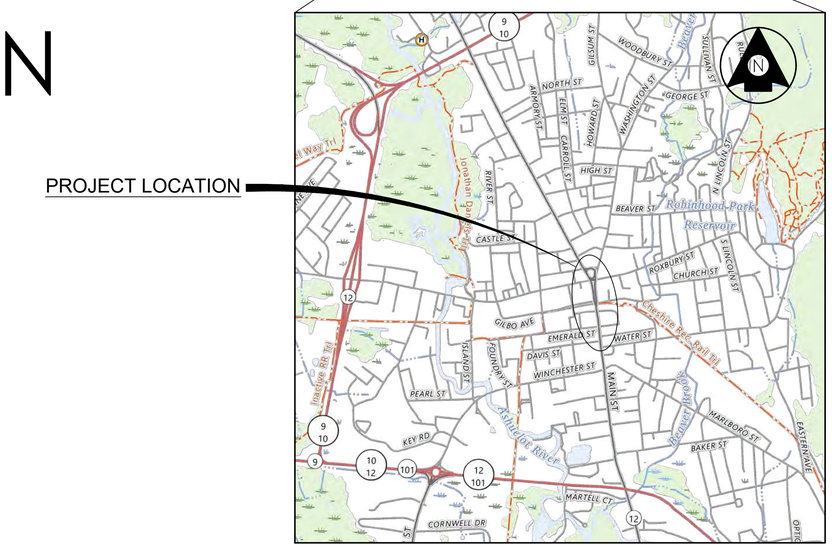
DOWNTOWN INFRASTRUCTURE IMPROVEMENT & RECONSTRUCTION PROJECT

JANUARY 2025

STANTEC PROJECT NUMBER: 179450974



LOCATION MAP



VICINITY MAP
SCALE: 1" = 1,000'

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GENERAL NOTES

1. THE MINIMUM ACCEPTABLE STANDARDS FOR ALL CONSTRUCTION MATERIALS AND METHODS SHALL BE IN ACCORDANCE WITH THE NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION (NHDOT) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2016 EDITION AND ALL SUBSEQUENT AMENDMENTS. ITEM NUMBERS REFERENCED IN THE DRAWINGS AND THE CONTRACT DOCUMENTS ARE NHDOT ITEM NUMBERS.

2. IN THE EVENT OF A CONFLICT OF INFORMATION IN THE CONTRACT DOCUMENTS, SECTION 01095 – STANDARDS AND DEFINITIONS – SECTION 1.3C ADDRESSES AND CLARIFIES THAT THE MORE STRINGENT REQUIREMENT OF THE DOCUMENTS SHALL APPLY AS DETERMINED BY THE ENGINEER.

3. CONTRACTOR SHALL NOTIFY DIG–SAFE (1–888–344–7233) A MINIMUM OF 72 HOURS PRIOR TO BEGINNING CONSTRUCTION. THE CONTRACTOR SHALL REPAIR, AT HIS/HER OWN EXPENSE, ANY UNDERGROUND CABLES OR UTILITIES DAMAGED BY HIS/HER OPERATIONS INCLUDING ANY DAMAGE DONE DRIVING HIS/HER EQUIPMENT OVER EXISTING UNDERGROUND CABLES OR UTILITIES.

4. ALL CLEARING LIMITS AND TREE REMOVALS, IF REQUIRED, MUST BE MARKED OUT AND REVIEWED BY THE CITY OF KEENE AND THE ENGINEER PRIOR TO BEGINNING ANY CLEARING AND TREE REMOVAL OPERATIONS. THE CONTRACTOR SHALL TAKE NOTE OF THE REQUIREMENTS RELATIVE TO THE NORTHERN LONG EARED BAT AS INDICATED IN SECTION 01010 – PROSECUTION OF WORK.

5. PAVEMENT MARKING AND SIGN NOTES ARE SHOWN ON THE PAVEMENT MARKING AND SIGN PLANS.

6. ALL ROADS SHALL REMAIN OPEN TO TRAFFIC AT ALL TIMES, EXCEPT WHEN A TEMPORARY DETOUR SHALL BE USED. NO DETOUR SHALL BE USED WITHOUT PRIOR APPROVAL OF THE ENGINEER AND OWNER. WHEN A DETOUR IS NOT IN PLACE, A MINIMUM OF ONE LANE TWO WAY TRAFFIC MUST BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION. TWO WAY TRAFFIC MUST BE RESTORED AT THE END OF EACH WORK DAY. THE CONTRACTOR MUST CONTACT THE KEENE FIRE, POLICE, AND SCHOOL DEPARTMENTS PRIOR TO BEGINNING CONSTRUCTION AT THE START OF EACH WORK DAY. THE CONTRACTOR SHALL PROVIDE ALL SIGNAGE, BARRICADES, AND FLAGGERS AS REQUIRED FOR TRAFFIC CONTROL AND COORDINATION WITH OTHER CONSTRUCTION OPERATIONS ON ADJACENT STREETS. ALL TRAFFIC CONTROL PLANS SHALL BE SUBMITTED FOR REVIEW AND APPROVAL BY THE CITY.

7. THE CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION OPERATIONS AND TRAFFIC CONTROL WITH OTHER CITY PROJECTS.

8. WORK SHALL NOT BEGIN BEFORE 7:00 AM AND MUST END BY 5:00 PM UNLESS OTHERWISE APPROVED BY THE CITY IN WRITING. NO WORK ON WEEKENDS SHALL BE PERMITTED UNLESS OTHERWISE APPROVED BY THE CITY IN WRITING. SEE SECTION 01010 – PROSECUTION OF WORK, RELATIVE TO ADDITIONAL REQUIREMENTS ASSOCIATED WITH WORK HOURS AND SCHEDULE.

9. ALL PERMANENT CONSTRUCTION WARNING SIGNS MUST BE ERECTED PRIOR TO BEGINNING CONSTRUCTION.

10. ALL PERMANENT AND TEMPORARY TRAFFIC CONTROL SIGNS SHALL MEET THE CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).

    A. PERMANENT CONSTRUCTION SIGNS SHALL CONFORM TO NHDOT "WORK ZONE TRAFFIC CONTROL STANDARD PLANS" SHEET TC–2 WITH REGARD TO SIGN TYPE, QUANTITY AND LAYOUT.

    B. TEMPORARY CONSTRUCTION SIGNS USED FOR DAILY LANE CLOSURES AND TRAFFIC CONTROL SHALL CONFORM TO NHDOT "WORK ZONE TRAFFIC CONTROL STANDARD PLANS" SHEET TC–3 AND TC–8 WITH REGARD TO TAPER LENGTHS, CHANNELIZING DEVICES AND SIGN TYPE, QUANTITY AND LAYOUT. REMOVE THOSE EXCESS MATERIALS FROM SITE AT NO EXPENSE TO THE OWNER.

11. THE CONTRACTOR MUST COORDINATE ALL WORK WITH THE CITY OF KEENE, THE ENGINEER, AND ANY AFFECTED ABUTTERS. ALL WORK OUTSIDE THE ROADWAY RIGHT OF WAY CAUSED BY THE CONTRACTOR'S WORK PLAN SHALL BE COORDINATED WITH THE AFFECTED PROPERTY OWNER. WORK SHALL NOT PROCEED WITHOUT APPROVAL OF THE KEENE ENGINEERING DEPARTMENT.

12. ALL ELEVATIONS AND LOCATIONS OF EXISTING UTILITY AND DRAINAGE STRUCTURES SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO UTILIZATION OF THE DESIGN ELEVATIONS SHOWN ON THE PLAN.

13. BACKFILL OF THE TRENCHES SHALL BE COMPACTED TO 95% MAX. DRY DENSITY UNDER ALL PAVED AREAS AND 92% MAX. DRY DENSITY UNDER OTHER AREAS IN ACCORDANCE WITH NHDOT STANDARD SPECIFICATIONS – SECTION 304.

14. SHORING AND STABILIZATION OF TRENCH SIDEWALLS DURING EXCAVATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

15. ALL CULVERTS, DRAINAGE STRUCTURES, UTILITY WORK, AND ROAD CONSTRUCTION SHALL BE SUBJECT TO FINAL INSPECTION BY THE CITY OF KEENE PRIOR TO ACCEPTANCE.

16. THE CONTRACTOR SHALL PROVIDE A MINIMUM OF 4" LOAM AND SEED OVER ALL DISTURBED UNPAVED AREAS UNLESS OTHERWISE SPECIFIED.

17. ALL PAVEMENT CUTTING SHALL BE COMPLETED BY SAW CUTTING ONLY.

18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND FITTING OF VARIOUS ITEMS OF WORK AT THE PROJECT SITE.

19. THE CONTRACTOR SHALL SUBMIT HIS/HER PROPOSED CONSTRUCTION SCHEDULE TO THE CITY OF KEENE FOR REVIEW AND APPROVAL AT LEAST TWO (2) WEEKS PRIOR TO THE START OF CONSTRUCTION. NO WORK SHALL BE CONDUCTED WITHOUT AN APPROVED SCHEDULE. UPDATED SCHEDULES SHALL BE PROVIDED TO THE CITY OF KEENE FOR REVIEW AND APPROVAL EVERY TWO (2) WEEKS DURING CONSTRUCTION.

20. BLASTING, IF REQUIRED, SHALL BE PERFORMED BY A LICENSED BLASTING CONTRACTOR MEETING NHDOT AND CITY OF KEENE REQUIREMENTS.

21. THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH THE CITY OF KEEEN, COMCAST COMMUNICATIONS, EVERSOURCE, LIBERTY UTLITIES, AND ALL OTHER AFFECTED UTILITY COMPANIES.

22. THE CONTRACTOR SHALL MEET THE REQUIREMENTS OF THE EPA NPDES PHASE II PROGRAM AND SUBSEQUENT PROGRAMS AS APPLICABLE AT THE TIME OF CONSTRUCTION OF THIS PROJECT.

23. THE CONTRACTOR SHALL PROVIDE FOR AND MAINTAIN CONTINUOUS DRAINAGE THROUGHOUT CONSTRUCTION.

24. THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES AND SHALL PROVIDE ALL NECESSARY CONTINUOUS BARRIERS OF SUFFICIENT TYPE, SIZE, AND STRENGTH TO PREVENT ACCESS TO ALL OPEN EXCAVATIONS AT THE COMPLETION OF EACH DAYS WORK.

25. WOOD FROM TREES TO BE REMOVED FROM THE PROJECT SHALL BE FIRST OFFERED TO THE ADJACENT PROPERTY OWNER. SHOULD THE ADJACENT PROPERTY OWNER NOT WANT SOME OR ALL THE WOOD, THE CONTRACTOR SHALL REMOVE THE EXCESS WOOD FROM SITE AT NO EXPENSE TO THE CITY OF KEENE.

26. CONTRACTOR TO PERFORM TEST PITS PRIOR TO ORDERING SEWER AND/OR DRAINAGE STRUCTURES TO VERIFY ELEVATIONS AND REQUIRED OPENINGS.

27. CONTRACTOR SHALL VERIFY BENCH MARK ELEVATIONS PRIOR TO THE START OF CONSTRUCTION.

28. CATCH BASIN RIM ELEVATIONS SHALL BE SET 1" BELOW FINISHED ROADWAY GRADES.

29. ALL WORK IN AND ADJACENT TO CITY STREETS SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE CITY OF KEENE STREET OPENING AND NHDOT STANDARDS AND SPECIFICATIONS. THE CONTRACTOR IS REQUIRED TO OBTAIN ALL THE NECESSARY PERMITS FROM THE CITY OF KEENE PRIOR TO THE START OF CONSTRUCTION.

30. LAYOUT OF THE PROPOSED IMPROVEMENTS INDICATED WITHIN THIS PROJECT SHALL BE CONDUCTED BY A LAND SURVEYOR LICENSED IN THE STATE OF NEW HAMPSHIRE.

31. ALL MONUMENTATION AFFECTED BY THE PROJECT SHALL BE REMOVED AND RESET BY THE CONTRACTOR'S LICENSED LAND SURVEYOR. THE CONTRACTOR'S LAND SURVEYOR SHALL BE LICENSED IN THE STATE OF NEW HAMPSHIRE.

32. THE CONTRACTOR SHALL COMPLY WITH THE CONDITIONS OF THE PROJECT PERMITS (SEE CONTRACT DOCUMENTS). THIS WORK SHALL BE CONSIDERED TO BE INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.

33. ALL PROJECTS, WHICH WILL ENCOMPASS CONSTRUCTION ACTIVITIES OVER THE COURSE OF TWO OR MORE CONSTRUCTION SEASONS, SHALL BE REQUIRED TO HOLD A "PROJECT WINTER MAINTENANCE MEETING" PRIOR TO OCTOBER 15TH. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SNOW REMOVAL REQUIRED FOR CONSTRUCTION. PLACING AND REMOVING SNOW ON PRIVATE PROPERTY SHALL NOT BE ALLOWED. THE REMOVAL OF SNOW SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

34. THE CONTRACTOR SHALL PROVIDE FOR ACCESS TO ADJACENT BUSINESSES DURING CONSTRUCTION AND PROVIDE CONSTRUCTION SIGNAGE CONVEYING THE MESSAGE "BUSINESS OPEN DURING CONSTRUCTION".

35. THE CONTRACTOR SHALL PROVIDE FOR TEMPORARY MEASURES TO MAINTAIN PEDESTRIAN ACCESS THROUGH THE WORK ZONE DURING CONSTRUCTION.

Stantec

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Notes

Revision	By	Appd	YYYY-MM-DD
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Permit/Seal

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Client/Project Logo

Client/Project
CITY OF KEENE

KEENE DOWNTOWN IMPROVEMENTS

KEENE, NEW HAMPSHIRE

Title
INDEX & GENERAL NOTES

Project No.	Scale
179450806	NTS

Revision	Sheet	Drawing No.
-	02 of 232	**IND-01**

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ORIGINAL SHEET - ANSI D

EARTHWORK

1. EXCAVATION CONSISTS OF REMOVAL OF MATERIAL ENCOUNTERED TO SUBGRADE ELEVATIONS INDICATED AND SUBSEQUENT DISPOSAL OF MATERIALS REMOVED. UNAUTHORIZED EXCAVATION CONSISTS OF REMOVAL OF MATERIALS BEYOND INDICATED SUBGRADE ELEVATIONS OR DIMENSIONS WITHOUT SPECIFIC DIRECTION OF THE ENGINEER. UNAUTHORIZED EXCAVATION, AS WELL AS REMEDIAL WORK FOR CORRECTION, SHALL BE AT THE CONTRACTOR'S EXPENSE.

1. SUBGRADE: THE UNDISTURBED EARTH OR THE COMPACTED SOIL LAYER IMMEDIATELY BELOW GRANULAR SUBBASE.

2. STRUCTURE: BUILDINGS, FOUNDATIONS, SLABS, TANKS, CURBS, OR OTHER MAN-MADE STATIONARY FEATURES OCCURRING ABOVE OR BELOW GROUND SURFACE.

3. FINISHED GRADE: THE WORD "FINISHED GRADE" AS USED HEREIN SHALL MEAN THE REQUIRED FINAL GRADE ELEVATIONS INDICATED ON THE CONTRACT DRAWINGS. SPOT ELEVATIONS SHALL GOVERN OVER PROPOSED CONTOURS. WHERE NOT OTHERWISE INDICATED, PROJECT SITE AREAS SHALL BE GIVEN UNIFORM SLOPES BETWEEN POINTS FOR WHICH FINISHED GRADES ARE INDICATED OR BETWEEN SUCH POINTS AND EXISTING ESTABLISHED GRADES.

4. NOTIFICATION – FOR APPROVAL OF FILL MATERIAL, THE CONTRACTOR SHALL:

   A. NOTIFY THE ENGINEER AT LEAST 14 WORKING DAYS IN ADVANCE OF INTENTION TO IMPORT MATERIAL.

   B. SUBMIT A CERTIFICATE OF COMPLIANCE TO THE ENGINEER FOR EACH MATERIAL. CERTIFICATE SHALL INCLUDE:

      – THE CONTRACTOR'S STATEMENT THAT THE NAMED MATERIAL MEETS THE SPECIFIED REQUIREMENTS.

      – A COPY OF THE TESTING LABORATORY'S REPORT.

      – THE LOCATION OF THE MATERIAL'S ORIGIN WITH DATE OF TEST ANALYSIS HIGHLIGHTED.

   C. SOURCES SHALL BE ACCESSIBLE TO THE OWNER, OR HIS AGENT, FOR INSPECTION OR ADDITIONAL SAMPLING AND TESTING.

6. THE REQUIREMENTS OF THE 2003 INTERNATIONAL BUILDING CODE AND THE APPLICABLE PORTIONS OF THE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES, 2016, ESTABLISH THE MINIMUM ACCEPTABLE QUALITY OF WORKMANSHIP AND MATERIALS, AND ALL WORK SHALL CONFORM THERETO UNLESS MORE STRINGENT REQUIREMENTS ARE INDICATED OR SPECIFIED BY THE CONTRACT DOCUMENTS.

7. DUST CONTROL – USE ALL MEANS NECESSARY TO CONTROL DUST ON AND NEAR THE WORK AND ON AND NEAR ALL OFF-SITE BORROW AREAS IF SUCH DUST IS CAUSED BY THE CONTRACTOR'S OPERATIONS DURING PERFORMANCE OF THE WORK OR IF RESULTING FROM THE CONDITION IN WHICH THE CONTRACTOR LEAVES THE SITE. THOROUGHLY MOISTEN ALL SURFACES AS REQUIRED TO PREVENT DUST FROM BEING A NUISANCE TO THE OWNER, PUBLIC, AND CONCURRENT PERFORMANCE OF OTHER WORK ON THE SITE.

8. BRACING – PROPERLY SUPPORT ALL TRENCHES AND OTHER EXCAVATIONS IN STRICT ACCORDANCE WITH ALL PERTINENT, CURRENT OSHA RULES AND REGULATIONS. BRACE, SHEET, AND SUPPORT TRENCH WALLS AND OTHER EXCAVATIONS IN SUCH A MANNER THAT THEY WILL BE SAFE AND THAT THE GROUND ALONGSIDE THE EXCAVATION WILL NOT SLIDE OR SETTLE, AND THAT ALL EXISTING IMPROVEMENTS OF EVERY KIND, WHETHER ON PUBLIC OR PRIVATE PROPERTY, WILL BE FULLY PROTECTED FROM DAMAGE. IN THE EVENT OF DAMAGE TO SUCH IMPROVEMENTS, IMMEDIATELY MAKE ALL REPAIRS AND REPLACEMENTS NECESSARY TO THE APPROVAL OF THE ENGINEER AND AT NO ADDITIONAL COST TO THE OWNER.

9. CRUSHED STONE FOR BEDDING – SHALL BE DURABLE CRUSHED ROCK CONSISTING OF THE ANGULAR FRAGMENTS OBTAINED BY BREAKING AND CRUSHING SOLID OR SHATTERED NATURAL ROCK, AND REASONABLY FREE FROM SAND, CLAY, LOAM OR DELETERIOUS MATERIAL AND NOT MORE THAN 1% OF SATISFACTORY MATERIAL PASSING A NO. 200 SIEVE WILL BE ALLOWED TO ADHERE TO THE CRUSHED STONE. THE CRUSHED STONE SHALL BE UNIFORMLY BLENDED ACCORDING TO THE GRADING REQUIREMENTS FOR THE RESPECTIVE STONE SIZES SHOWN IN THE FOLLOWING TABLE FOR ASTM SPECIFICATION C33, STONE SIZE NUMBER 67 AS FOLLOWS:

SQUARE OPENING SIEVE	PERCENT BY WEIGHT PASSING THROUGH
1"	100
3/4"	90 – 100
3/8"	20 – 55
NO. 4	0 – 10
NO. 8	0 – 5

10. SUBBASE MATERIAL UNDER PAVED SURFACES – SHALL CONSIST OF NATURALLY OR ARTIFICIALLY GRADED MIXTURE OF CRUSHED GRAVEL, AND NATURAL OR CRUSHED SAND AND SHALL CONFORM TO NHDOT SPECIFICATIONS – SECTION 304 – AGGREGATE BASE COURSE AS FOLLOWS:

    CRUSHED GRAVEL: SECTION 304, ITEM 304.3 (TABLE 1)

    GRAVEL: SECTION 304, ITEM 304.2 (TABLE 1)

11. FAMILIARIZATION – PRIOR TO ALL WORK IN THIS SECTION, THE CONTRACTOR SHALL BECOME THOROUGHLY FAMILIAR WITH THE SITE, THE BUILDING AND SITE CONDITIONS, AND ALL PORTIONS OF THE WORK. THE CONTRACTOR SHALL SATISFY HIMSELF, BY AN ACTUAL SITE EXAMINATION OF THE WORK, AS TO THE EXISTING CONDITIONS, CONTOURS AND ELEVATIONS AND THE AMOUNT OF WORK REQUIRED UNDER THIS PROJECT.

12. PROVIDE AND MAINTAIN AT ALL TIMES DURING CONSTRUCTION, AMPLE MEANS AND DEVICES WITH WHICH TO REMOVE PROMPTLY AND DISPOSE OF ALL WATER FROM EVERY SOURCE ENTERING THE EXCAVATIONS OR OTHER PARTS OF THE WORK. DEWATER BY MEANS WHICH WILL ENSURE DRY EXCAVATIONS AND THE PRESERVATION OF THE FINAL LINES AND GRADES OF BOTTOMS OF EXCAVATIONS. THE CONTRACTOR SHALL TAKE NOTE OF THE REQUIREMENTS OF SPECIAL PROVISION 202.910 – TREATMENT AND DISPOSAL OF CONTAMINATED GROUNDWATER.

PAVEMENT

1. BITUMINOUS CONCRETE SHALL BE PREPARED, MIXED, TRANSPORTED, PLACED, COMPACTED, AND FINISHED IN ACCORDANCE WITH THE REQUIREMENTS SET FORTH IN THE 2016 EDITION OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" PUBLISHED BY THE STATE OF NEW HAMPSHIRE, DEPARTMENT OF TRANSPORTATION. SPECIFICALLY, 401 PLANT MIX PAVEMENTS – GENERAL, SECTION 403 – HOT BITUMINOUS PAVEMENT, AND SECTION 410 – BITUMINOUS SURFACE TREATMENT OF THE NHDOT SPECIFICATIONS SHALL APPLY TO THIS PROJECT.

2. THE CONTRACTOR SHALL SUPPLY ALL MATERIALS, LABOR, SERVICES, EQUIPMENT, AND TOOLS REQUIRED TO PERFORM ALL HOT-MIXED ASPHALT PAVING AND RELATED WORK NECESSARY FOR PROPER COMPLETION OF THE WORK AS DEFINED BY THE CONTRACT DOCUMENTS.

3. THE CONTRACTOR SHALL REMOVE AND REPLACE ALL PAVEMENT DAMAGED IN ANY WAY BY HIS OPERATIONS ON ALL ROADS, STREETS, DRIVES, OR OTHER PAVED AREAS.

4. ALL EXISTING PAVEMENT TO BE REMOVED SHALL BE SEVERED BY A SAWCUT. PAVEMENT SAW CUTS DAMAGED DURING THE COURSE OF THE WORK SHALL BE RESAWN, PROVIDING A PERPENDICULAR EDGE, JUST PRIOR TO INSTALLATION OF THE NEW PAVEMENT.

5. CERTIFICATES OF COMPLIANCE – THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER, SWORN MATERIAL CERTIFICATES FROM THE SUPPLIERS OF BITUMINOUS CONCRETE MATERIALS. THE CERTIFICATES SHALL INDICATE THAT THE MATERIALS PROVIDED ARE IN EVERY WAY IN CONFORMANCE WITH THE REQUIREMENTS OF THESE SPECIFICATIONS.

6. WEATHER LIMITATIONS: APPLY PRIME AND TACK COATS WHEN AMBIENT TEMPERATURE IS ABOVE 50 DEG F (10 DEG C) AND WHEN TEMPERATURE HAS NOT BEEN BELOW 35 DEG F (1 DEG C) FOR 12 HOURS IMMEDIATELY PRIOR TO APPLICATION. DO NOT APPLY WHEN BASE IS WET OR CONTAINS AN EXCESS OF MOISTURE. BASE COURSE MAY BE PLACED WHEN AIR TEMPERATURE IS 40 DEGREES AND RISING OR WHEN OTHERWISE ACCEPTABLE TO THE ENGINEER. CONSTRUCT BITUMINOUS CONCRETE SURFACE COURSES ONLY WHEN ATMOSPHERIC TEMPERATURE IS 50 DEGREES F OR ABOVE, WHEN THE UNDERLYING BASE IS DRY, AND WHEN WEATHER DOES NOT INDICATE FOG, RAIN OR OTHER UNSUITABLE CONDITIONS.

7. PRE-PAVING CONFERENCE: THE CONTRACTOR SHALL ARRANGE A PRE-PAVING CONFERENCE WITH THE ENGINEER TO REVIEW AND APPROVE THE PAVING SCHEDULE, PERSONNEL INVOLVED, THE SOURCE OF PAVING MIX AND THE TYPE OF PAVING MIX.

8. SETTLEMENT – SHOULD ANY PAVEMENT SETTLEMENT OCCUR WITHIN ONE YEAR OF COMPLETION OF THE CONTRACT, THE CONTRACTOR SHALL REMOVE AND REPLACE SUCH PAVEMENT AT HIS OWN EXPENSE AS DIRECTED BY THE ENGINEER OR THE OWNER. IF THE CONTRACTOR FAILS TO MAKE SUCH REPAIRS PROMPTLY UPON RECEIPT OF NOTICE TO DO SO FROM THE OWNER, THEN THE OWNER MAY MAKE SUCH REPAIRS AS NECESSARY AND THE COSTS INCURRED IN MAKING SUCH REPAIRS SHALL BE TAKEN FROM THE CONTRACTOR'S WARRANTY BOND.

9. ALL MATERIALS REQUIRED UNDER THIS SECTION SHALL COMPLY TO NHDOT SPECIFICATIONS; SECTIONS 702, 703 AND 708. GRAVEL – SHALL BE PROVIDED AS SPECIFIED UNDER THE SPECIFICATIONS AND NOTES. BITUMINOUS CONCRETE – SHALL COMPLY WITH SECTION 401: BASE COURSES OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" BY THE STATE OF NEW HAMPSHIRE, DEPARTMENT OF TRANSPORTATION. TYPE (3/4") MIX SHALL BE USED FOR BASE COURSE AND TYPE (3/8") FOR WEARING COURSE.

10. PROOF-ROLL PREPARED SUBBASE SURFACE TO CHECK FOR UNSTABLE AREAS AND AREAS REQUIRING ADDITIONAL COMPACTION. NOTIFY ENGINEER OF UNSATISFACTORY CONDITIONS. DO NOT BEGIN PAVING WORK UNTIL DEFICIENT SUBBASE AREAS HAVE BEEN CORRECTED AND ARE READY TO RECEIVE PAVING.

11. TACK COAT: APPLY TO CONTACT SURFACES OF PREVIOUSLY CONSTRUCTED ASPHALT OR PORTLAND CEMENT CONCRETE AND SURFACES ABUTTING OR PROJECTING INTO HOT-MIXED ASPHALT PAVEMENT. DISTRIBUTE AT RATE OF 0.05 TO 0.15 GAL. PER SQ. YD. OF SURFACE. ALLOW TO DRY UNTIL AT PROPER CONDITION TO RECEIVE PAVING.

12. EXERCISE CARE IN APPLYING BITUMINOUS MATERIALS TO AVOID SMEARING OF ADJOINING CONCRETE SURFACES. REMOVE AND CLEAN DAMAGED SURFACES.

13. WHERE NEW PAVEMENT ABUTS EXISTING, A CLEAN STRAIGHT SAWCUT SHALL BE MADE AND A SMOOTH, FLUSH, AND LEVEL TRANSITION OF FINISH SURFACE SHALL BE MAINTAINED. METHODS FOR ON-SITE PAVEMENTS SHALL CONFORM TO APPLICABLE PROVISIONS BELOW:

    A. ALL TRENCHING AND BACKFILLING SHALL BE COMPLETED AND ANY RESULTANT SETTLEMENT FILLED AND COMPACTED BEFORE THE WORK OF THIS SECTION HAS BEGUN. ROUGH GRADING SHALL HAVE BEEN COMPLETED AND ACCEPTED. ALL UNEVEN AREAS SHALL BE FRESHLY LEVELED AND FILLED TO BRING ROUGH GRADE TO A TRUE AND EVEN SUBGRADE SURFACE BEFORE INSTALLING THE GRAVEL BASE COURSE. BEFORE GRAVEL BASE IS SPREAD, THE SUBGRADE SHALL BE ROLLED BY A SELF-PROPELLED ROLLER WEIGHING NOT LESS THAN 10 TONS. ALL DEPRESSIONS OCCURRING SHALL BE FILLED WITH SUITABLE MATERIALS AND AGAIN ROLLED UNTIL THE SURFACE IS SMOOTH AND HARD. ANY PORTION OF THE SUBGRADE WHICH IS NOT ACCESSIBLE TO A ROLLER SHALL BE REPAIRED THOROUGHLY WITH HAND TAMPERS.

    B. EXISTING GRAVEL ROADWAY MATERIAL SHALL BE RESHAPED TO THE PROPOSED LINE AND GRADE PRIOR TO PLACING THE CRUSHED GRAVEL BASE.

    C. GRAVEL BASE SHALL BE SPREAD AND COMPACTED BY ROLLING. BASE SHALL BE HELD BELOW FINISH GRADE BY THICKNESS OF PAVEMENT.

    D. FOLLOWING THE FINAL ROLLING, THE SURFACE OF THE BASE SHALL BE TESTED WITH A 10' STRAIGHTENED EDGE OR STRINGS FOR DEPRESSIONS OR IRREGULARITIES, WHICH SHALL BE SATISFACTORILY ELIMINATED BY ROLLING OR BY REPLACING THE SURFACE SO THAT THE SURFACE SHALL BE UNIFORM AND TRUE TO THE SPECIFIED GRADE AND CROSS SECTION.

PAVEMENT (CONT.)

E. BITUMINOUS CONCRETE PAVING FOR ROADWAYS AND DRIVEWAY APRONS SHALL BE LAID IN THE NUMBER OF COURSES AS IDENTIFIED ON THE PLANS, THE BASE / BINDER COURSES CONTAINING THE COARSE AGGREGATE AND THE WEARING COURSE CONTAINING THE FINE AGGREGATE SHALL BE AS INDICATED FOR THE VARIOUS NOTED AREAS OF CONSTRUCTION.

14. SET FRAMES FOR CATCH BASINS 1/2" BELOW FINISHED GRADE. ALL OTHER STRUCTURES WITHIN AREAS TO BE PAVED SHALL BE SET TO FINAL GRADE AS PART OF THIS WORK.

15. FINISH TOLERANCES – FINISH ALL SURFACES TO THE FOLLOWING TOLERANCES:

    A. BASE COURSE: PLUS 0.00' TO MINUS 0.05' FROM LINE AND GRADE SHOWN ON THE DRAWINGS.

    B. WEARING COURSE: PLUS OR MINUS 0.02' AT ANY POINT FROM LINE AND GRADE SHOWN ON THE DRAWINGS.

16. PROTECTION – PROTECT ALL PAVEMENT FROM TRAFFIC DURING ALL OPERATIONS AND UNTIL IT IS THOROUGHLY SET AND CURED AND IS NOT DAMAGED BY NORMAL FOOT OR WHEELED TRAFFIC.

17. SWEEP AND CLEAN SURFACE TO ELIMINATE LOOSE MATERIAL AND DUST PRIOR TO PLACING PAVEMENT MARKINGS.

18. DO NOT APPLY TRAFFIC AND LANE MARKING PAINT UNTIL LAYOUT AND PLACEMENT HAVE BEEN VERIFIED WITH ENGINEER.

RESTORATION NOTES

TOPSOILING

TOPSOIL IS REQUIRED ON ANY AREA WHERE IT IS NECESSARY TO ESTABLISH A VEGETATIVE COVER. IF THERE IS INSUFFICIENT NATURALLY OCCURRING TOPSOIL, ADDITIONAL TOPSOIL SHALL BE PROVIDED TO A MINIMUM FINISHED DEPTH OF FOUR INCHES (4").

1. LOAM, SANDY LOAM, OR SILTY LOAM SHALL BE USED FOR TOPSOIL MATERIAL.
2. THE MATERIAL SHALL BE FRIABLE AND FREE OF TREE ROOTS, WEEDS, STONES (GREATER THAN TWO INCHES) AND ANY OTHER DEBRIS. SOIL WHICH HAS BEEN TREATED WITH HERBICIDE IS UNACCEPTABLE.
3. THE MATERIAL SHALL BE TAKEN FROM THE NATURAL SURFACE LAYERS ("A" HORIZON) OF SOILS CAPABLE OF PRODUCING GOOD YIELDS OF CULTIVATED CROPS OR HAY.
4. AREAS WHERE TOPSOIL HAS BEEN REMOVED SHALL BE PROTECTED AGAINST EROSION.
5. TOPSOIL SHALL NOT BE STOCKPILED WHERE IT WILL INTERFERE WITH ANY DRAINAGE COURSE OR WITHIN TWENTY-FIVE FEET OF A WETLAND RESOURCE AREA.
6. TOPSOIL SHALL NOT BE COLLECTED OR SPREAD WHILE IT IS WET.
7. SUBSURFACES SHALL BE SCARIFIED OR OTHERWISE TILLED TO FACILITATE BONDING OF SOIL LAYERS.
8. TOPSOIL SHALL BE UNIFORMLY SPREAD TO PROVIDE A MINIMUM FINISHED DEPTH OF FOUR (4) INCHES AFTER SETTLEMENT FOR ALL AREAS (15.4 C.Y./1,000 S.F. OR 672.2 C.Y/ACRE).

PERMANENT SEEDING

UNLESS OTHERWISE INDICATED OR DIRECTED BY THE ENGINEER, GROUND COVER WILL BE ESTABLISHED BY HYDRO-SEEDING. ALL LOCATIONS ASSOCIATED WITH THIS PROJECT ARE DESIGNATED LAWN AREAS, SLOPE AREAS AND MISCELLANEOUS AREAS WILL BE VERIFIED WITH THE OWNER PRIOR TO HYDROSEEDING.

SEED MIXTURE

WHERE USED	MIXTURE	LBS / ACRE
LAWN AREAS	PARK SEED – TYPE 15	
	RED FESCUE (CREEPING)	40
	PERENNIAL RYEGRASS	50
	KENTUCKY BLUEGRASS	25
	RED TOP	5
	TOTAL LBS PER ACRE	120
SLOPE AND ALL OTHER AREAS OF PROPERTY NOT DESIGNATED AS LAWN	SLOPE SEED – TYPE 44	
	RED FESCUE (CREEPING)	35
	PERENNIAL RYEGRASS	30
	BIRDSFOOT TREFOIL	5
	RED TOP	5
	ALSIKE CLOVER	5
	TOTAL LBS PER ACRE	80

SITE PREPARATIONS

1. SHAPE AND SMOOTH THE SURFACE TO BE SPECIFIED ON DESIGN.
2. LIME ACCORDING TO SOIL TEST TO PH 6.5 OR IN THE ABSENCE OF A SOIL TEST, APPLY LIME AT THE RATE OF 2-3 TONS OF GROUND LIMESTONE PER ACRE (100-150 LBS. PER 1000 S.F.)
3. FERTILIZE ACCORDING TO SOIL TEST OR AT A RATE OF 1000 LBS. PER ACRE OF 10-10-10 FERTILIZER OR AS REQUIRED PER THE NHDOT STANDARD SPECIFICATIONS.
4. WORK UP A SEEDBED 3" TO 6" DEEP, THOROUGHLY INCORPORATING THE LIME AND FERTILIZER INTO THE SOIL.
5. SEED DURING THE PERIOD FROM AUGUST 10 TO SEPTEMBER 15, OR IN THE SPRING BEFORE MAY 20 FOR PERMANENT COVER. SEEDING AT OTHER TIMES SHALL BE CONSIDERED A TEMPORARY COVER.
6. APPLY SEED UNIFORMLY ACCORDING TO DIRECTIONS BY HYDRAULIC APPLICATION (HYDROSEEDING).
7. THE SEEDED AREA IS TO BE PROTECTED FROM EQUIPMENT, TRAMPLING, MULCHING, AND OTHER DESTRUCTIVE ACTIVITY.

RESTORATION NOTES (CONT.)

TEMPORARY SEEDING

TEMPORARY SEED MIXTURE (NOT FOR WETLAND RESTORATION): WHEN IT IS IMPRACTICAL TO ESTABLISH PERMANENT PROTECTIVE VEGETATION ON DISTURBED EARTH BY OCTOBER 15, USE "CONSERVATION MIX" OR THE FOLLOWING SEED MIXTURE FOR AREAS OUTSIDE OF CONSTRUCTION TRAFFIC:

SWITCHGRASS (BLACKWELL OR SHELTER)	4.0
BIG BLUESTEM (NIAGRA OR KAW)	4.0
LITTLE BLUESTEM (CAMPER OR BLAZE)	2.0
SAND LOVEGRASS (NE-27 OR BLAZE)	1.5
BIRDSFOOT TREFOIL (VIKING)	2.0
TOTAL POUNDS PLS PER ACRE	13.5

INOCULUM SPECIFIC TO BIRDSFOOT TREFOIL MUST BE USED WITH THIS MIXTURE. IF SEEDING BY HAND, A STICKING AGENT SUCH AS MILK OR COLA SHALL BE USED TO STICK INOCULUM TO THE SEED. IF SEEDING WITH HYDROSEEDER, USE FOUR (4) TIMES THE RECOMMENDED AMOUNT OF INOCULUM.

MULCH MATERIAL

ON SOILS SUBJECT TO EROSION SUCH AS SLOPES AND ON SEEDED AREAS OF TEMPORARY COVER WHERE MOISTURE CONSERVATION IS NECESSARY FOR SEED GERMINATION, MULCH MATERIAL WILL BE USED.

1. WHERE FEASIBLE, COMPLETE EARTHWORK AND CONSTRUCTION ACCORDING TO PLANS.
2. ALL ESSENTIAL GRADING NEEDED TO PREVENT EROSION AND SILTATION IS TO BE COMPLETED PRIOR TO APPLICATION OF MULCH MATERIAL.

	APPLICATION RATE		
MULCH MATERIAL	PER 1,000 SF	PER ACRE	REMARKS
HAY OR STRAW	70 – 90 LBS	1.5 TONS	LIGHTLY COVER 75% – 90% OF SURFACE, SUBJECT TO BLOWING AND SLIPPING UNLESS ANCHORED.
JUTE OR WOOD EXCELSIOR MATS			APPLY ACCORDING TO MANUFACTURER'S DIRECTIONS. USE IN AREA OF HIGH FLOWS.

3. HYDROMULCH WITH 1 1/2 TONS OF STRAW PER ACRE ON ALL DISTURBED AREAS IMMEDIATELY AFTER SEEDING.
4. MULCHES SUSCEPTIBLE TO BLOWING AND THOSE ON STEEP SLOPES WILL REQUIRE ANCHORING.

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CITY OF KEENE

KEENE DOWNTOWN IMPROVEMENTS

KEENE, NEW HAMPSHIRE

Title
NOTES

Project No.	Scale
179450806	NTS
Revision -	Sheet 03 of 232
Drawing No.	NOT-01

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ORIGINAL SHEET - ANSI D

CIVIL LEGENDS

PROPOSED LEGEND

- PROPOSED BOUND
- PROPOSED BENCHMARK
- PROPOSED CATCH BASIN (SQUARE)
- PROPOSED CATCH BASIN (ROUND)
- PROPOSED COMMUNICATION MANHOLE
- PROPOSED CURB INLET
- PROPOSED DRAIN MANHOLE (DMH)
- PROPOSED DRILL HOLE
- PROPOSED ELECTRICAL MANHOLE
- PROPOSED GUY POLE
- PROPOSED SURVEY POINT
- PROPOSED IRON PIN
- PROPOSED NATURAL GAS MANHOLE
- PROPOSED HYDRANT
- PROPOSED SANITARY SEWER MANHOLE (SMH)
- PROPOSED SINGLE POLE SIGN
- PROPOSED DOUBLE POLE SIGN
- PROPOSED TELEPHONE MANHOLE
- TP1 PROPOSED TEST PIT
- B1 PROPOSED BORING
- PROPOSED UTILITY POLE
- PROPOSED WATER SHUTOFF
- PROPOSED GATE VALVE
- PROPOSED WELL
- PROPOSED FLOOD LIGHT
- PROPOSED LIGHT POST
- PROPOSED DRAINAGE FLOW
- PROPOSED CONIFEROUS TREE
- PROPOSED DECIDUOUS TREE

- 100 PROPOSED MAJOR CONTOUR
- 98 PROPOSED MINOR CONTOUR
- X 95.5 PROPOSED SPOT ELEVATION
- PROPOSED RAILROAD TRACKS
- PROPOSED DITCH/SWALE
- PROPOSED EDGE OF RIVER
- PROPOSED EDGE OF POND
- PROPOSED EDGE OF WETLAND
- PROPOSED DEMOLITION WORK
- PROPOSED EASEMENT
- PROPOSED LIMITS OF CONSTRUCTION
- PROPOSED RIGHT OF WAY
- PROPOSED PROPERTY LINE
- G PROPOSED FUEL GAS
- GAS PROPOSED NATURAL GAS
- OHE PROPOSED OVERHEAD POWER
- UGE PROPOSED UNDERGROUND POWER
- CATV PROPOSED CABLE TV
- T PROPOSED OVERHEAD TELEPHONE
- UGT PROPOSED UNDERGROUND TELEPHONE
- S PROPOSED SANITARY SEWER
- FM PROPOSED SANITARY SEWER (FORCE MAIN)
- W PROPOSED WATER MAIN
- PS PROPOSED PRESSURE STEAM
- PROPOSED STORM DRAIN
- UD PROPOSED FOOTING UNDERDRAIN
- RD PROPOSED ROOF DRAIN
- PROPOSED FIRE PROTECTION
- PROPOSED GUARD RAIL
- PROPOSED FENCE (BARBED WIRE)
- PROPOSED FENCE (CHAIN LINK)
- PROPOSED FENCE (WOODEN)
- PROPOSED RETAINING WALL
- PROPOSED STONE WALL
- PROPOSED SILT FENCE
- PROPOSED HAYBALES
- PROPOSED TREE LINE

EXISTING LEGEND

- EXISTING BOUND
- EXISTING BENCHMARK
- EXISTING SURVEY POINT
- EXISTING CATCH BASIN (SQUARE)
- EXISTING CATCH BASIN (ROUND)
- EXISTING COMMUNICATION MANHOLE
- EXISTING CURB INLET
- EXISTING DRAIN MANHOLE (DMH)
- EXISTING ELECTRICAL MANHOLE
- EXISTING GUY POLE
- EXISTING HYDRANT
- EXISTING IRON PIN
- EXISTING NATURAL GAS MANHOLE
- EXISTING SEWER MANHOLE (SMH)
- EXISTING SINGLE POLE SIGN
- EXISTING DOUBLE POLE SIGN
- EXISTING FLOOD LIGHT
- EXISTING LIGHT POST
- MB EXISTING MAILBOX
- EXISTING DRAINAGE FLOW
- TP1 EXISTING TEST PIT
- B1 EXISTING BORING
- EXISTING STUMP
- EXISTING CONIFEROUS TREE
- EXISTING DECIDUOUS TREE
- EXISTING WETLAND
- EXISTING TELEPHONE MANHOLE
- EXISTING UTILITY POLE
- EXISTING WATER SHUTOFF
- EXISTING GATE VALVE
- EXISTING WELL

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- EXISTING EASEMENT
- EXISTING PROPERTY LINE
- EXISTING RIGHT-OF-WAY
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- G EXISTING FUEL GAS
- GAS EXISTING NATURAL GAS
- OHE EXISTING OVERHEAD POWER
- UGE EXISTING UNDERGROUND POWER
- S EXISTING SANITARY SEWER
- FM EXISTING SANITARY SEWER (FORCE MAIN)
- SD EXISTING STORM DRAIN
- PS EXISTING PRESSURE STEAM
- W EXISTING WATER MAIN
- CATV EXISTING CABLE TV
- T EXISTING OVERHEAD TELEPHONE
- UGT EXISTING UNDERGROUND TELEPHONE
- EXISTING GUARD RAIL
- EXISTING FENCE
- EXISTING CHAINLINK FENCE
- EXISTING WOODEN FENCE
- EXISTING RETAINING WALL
- EXISTING HAYBALES
- EXISTING STONE WALL
- EXISTING TREE/SHRUB LINE

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File Name: 50806_SYM	TJG Dwn.	TJG Dsgn.	DBM Chkd.	2025-01-28 YYYY-MM-DD

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KEENE DOWNTOWN IMPROVEMENTS

KEENE, NEW HAMPSHIRE

Title
SYMBOLS AND LEGEND

Project No.	Scale
179450806	NTS

Revision	Sheet	Drawing No.
-	04 of 232	**SYM-01**

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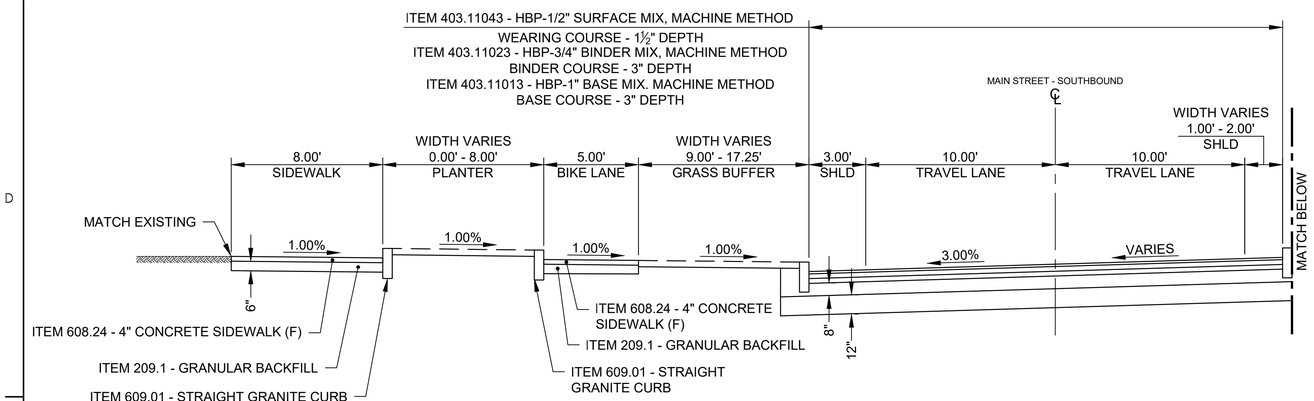

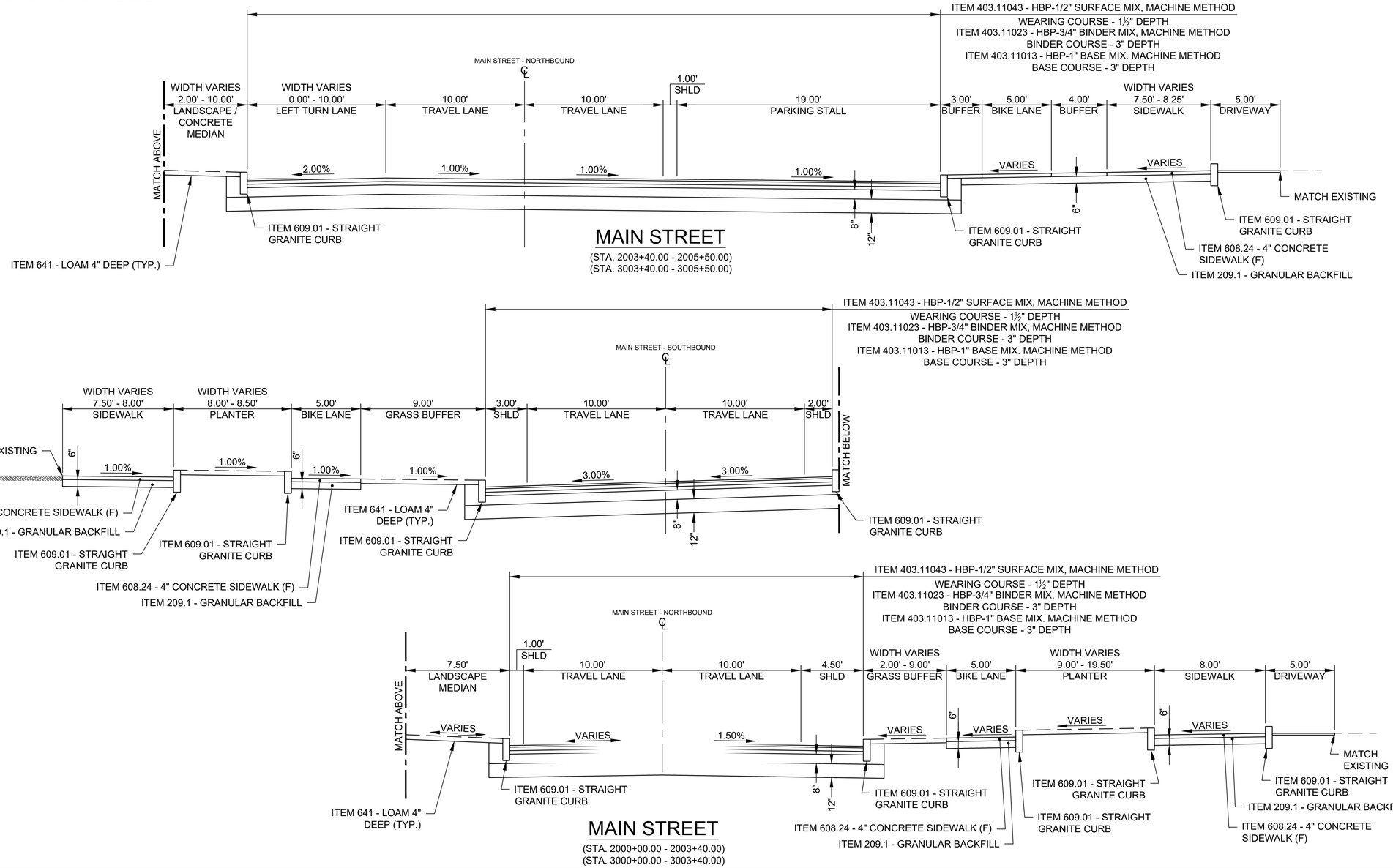

MAIN STREET

(STA. 2003+40.00 - 2005+50.00)
(STA. 3003+40.00 - 3005+50.00)

MAIN STREET

(STA. 2000+00.00 - 2003+40.00)
(STA. 3000+00.00 - 3003+40.00)

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Title
TYPICAL SECTIONS
SHEET 01 OF 09

Project No.	Scale
179450806	1" = 4'

Revision	Sheet	Drawing No.
-	05 of 232	TYP-01

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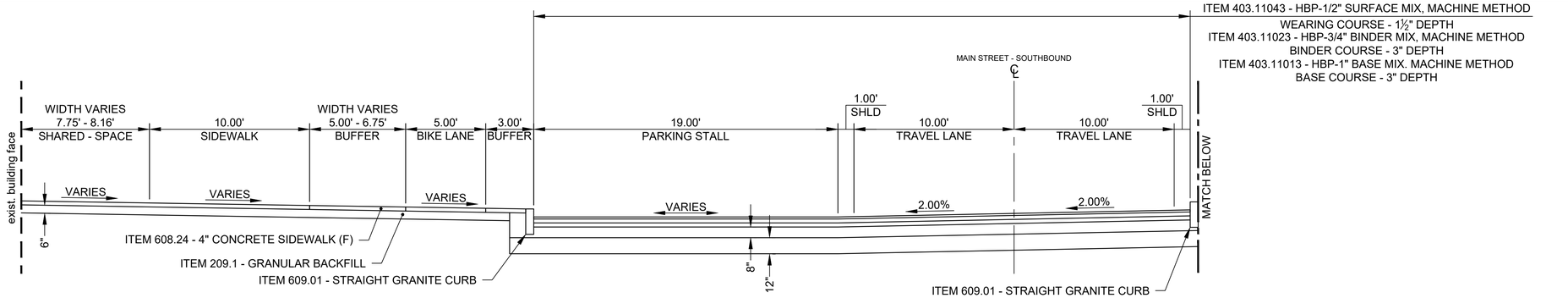

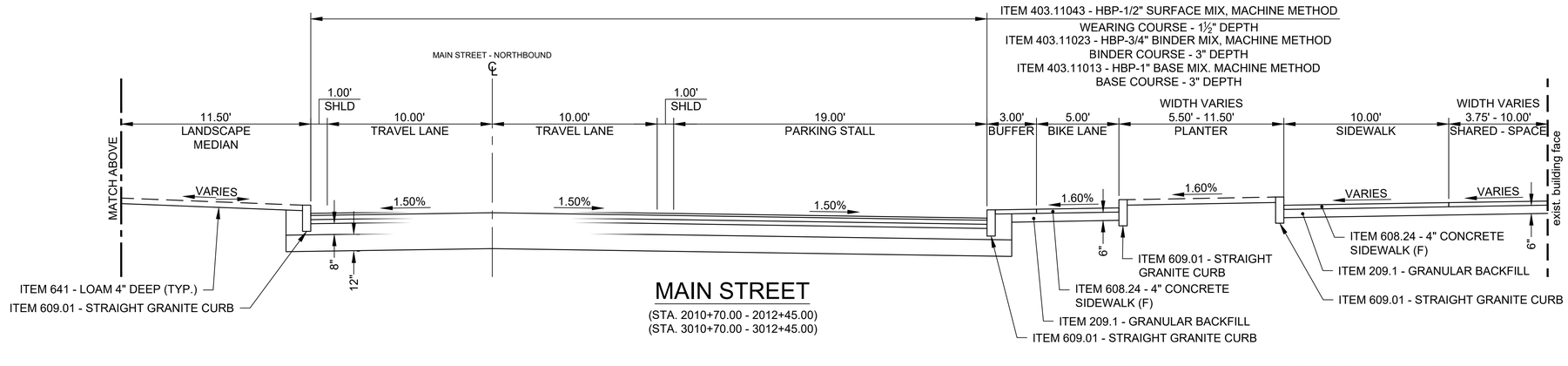

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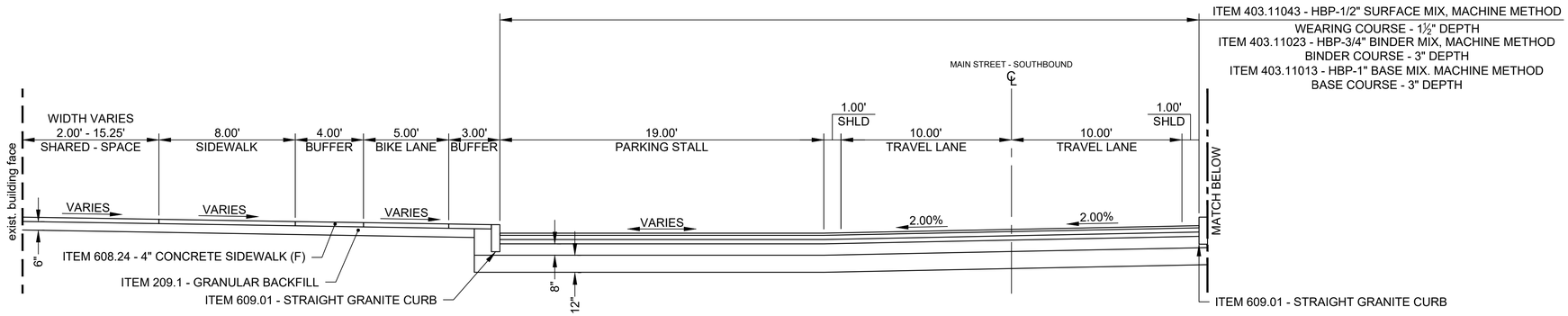
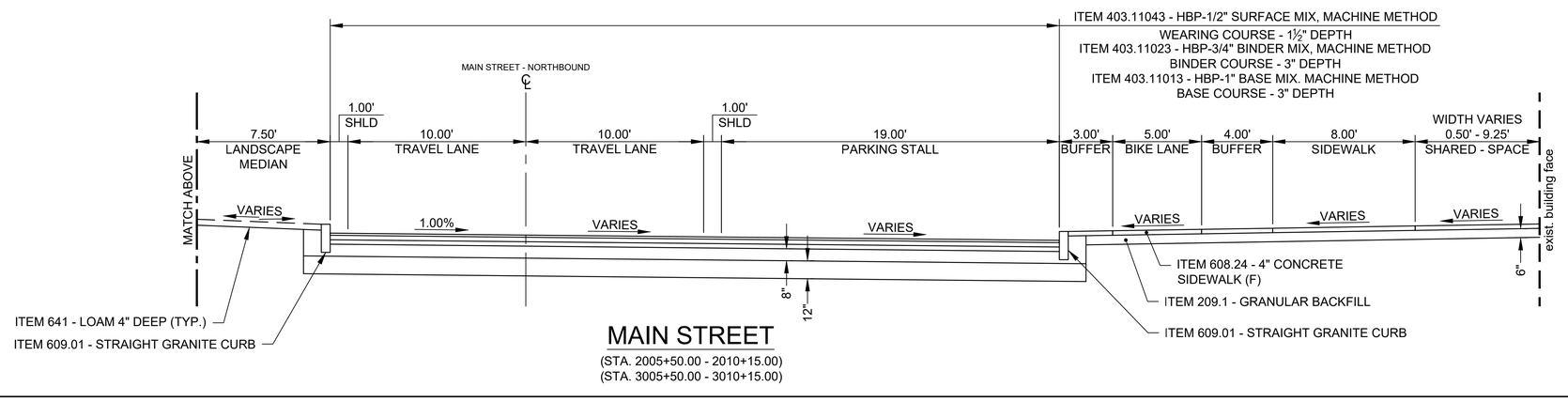
(STA. 3010+70.00 - 3012+45.00)





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(STA. 2005+50.00 - 2010+15.00)
(STA. 3005+50.00 - 3010+15.00)

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File Name: 50806_TYP	TJG Dwn.	TJG Dsgn.	DEM Chkd.	2025-01-28 YYYY-MM-DD

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KEENE DOWNTOWN IMPROVEMENTS

KEENE, NEW HAMPSHIRE

Title
TYPICAL SECTIONS
SHEET 02 OF 09

Project No.	Scale
179450806	1" = 4'

Revision	Sheet	Drawing No.
-	06 of 232	**TYP-02**

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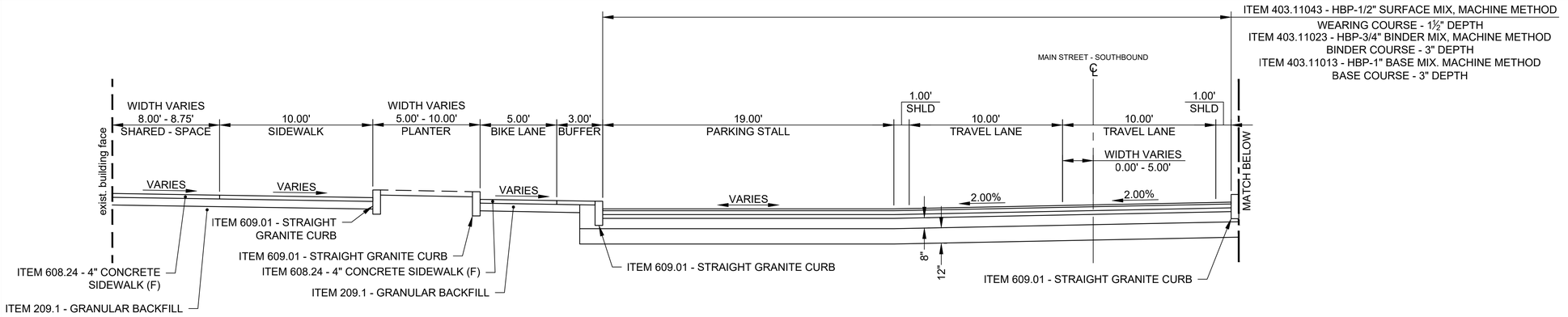

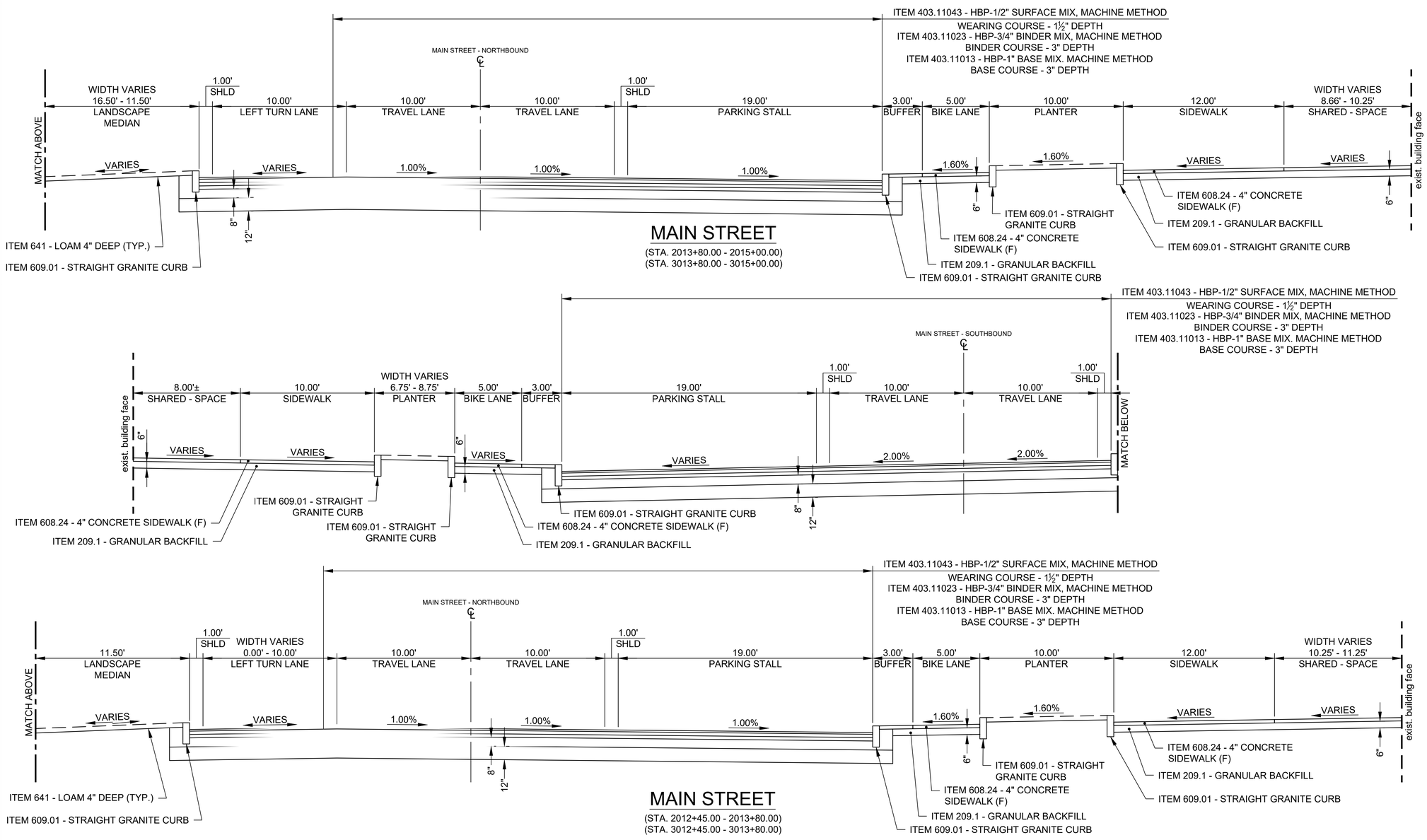

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KEENE, NEW HAMPSHIRE

Title
TYPICAL SECTIONS
SHEET 03 OF 09

Project No.	Scale
179450806	1" = 4'
Revision: -	Sheet: 07 of 232

Drawing No.
TYP-03

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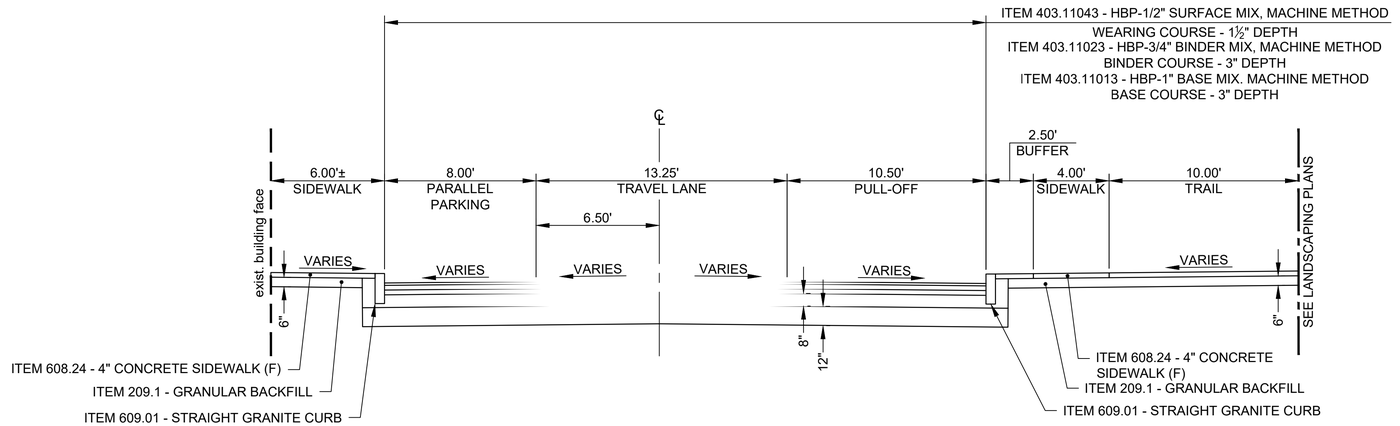
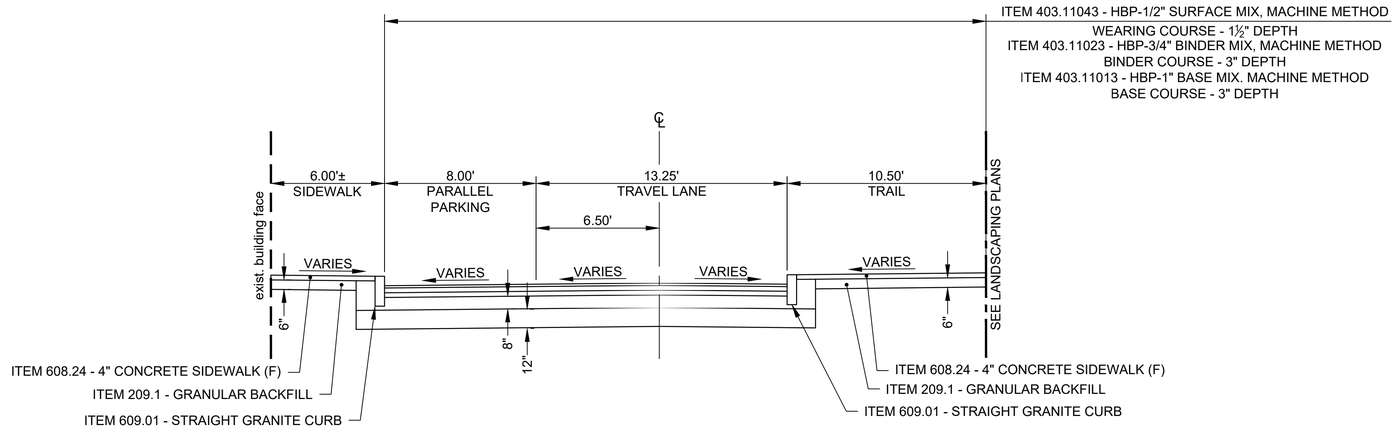


RAILROAD STREET

(STA. 81+60.00 - 82+31.00)



RAILROAD STREET

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KEENE, NEW HAMPSHIRE

Title
TYPICAL SECTIONS
SHEET 04 OF 09

Project No.	Scale
179450806	1" = 4'

Revision	Sheet	Drawing No.
-	08 of 232	**TYP-04**

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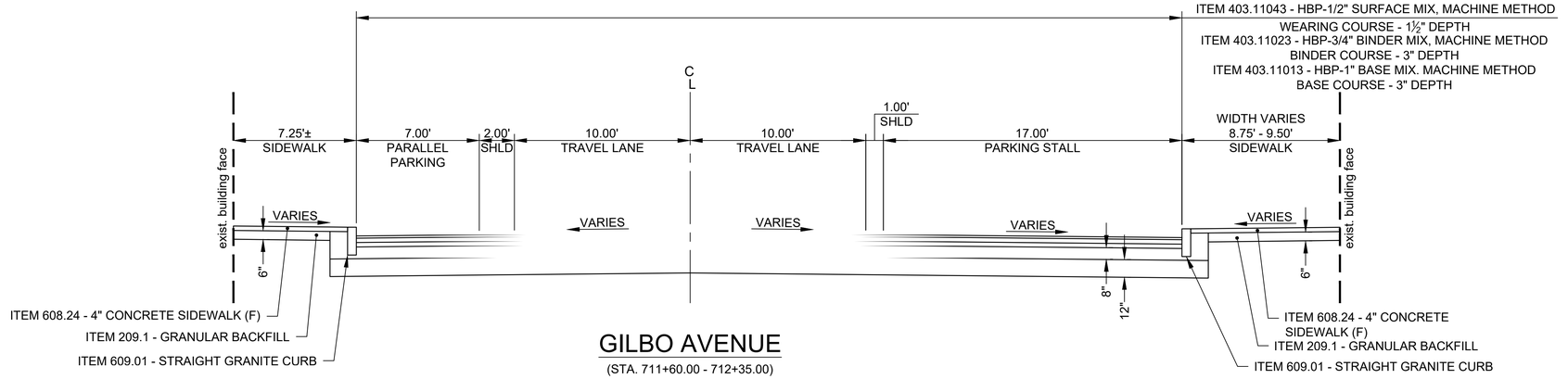

GILBO AVENUE

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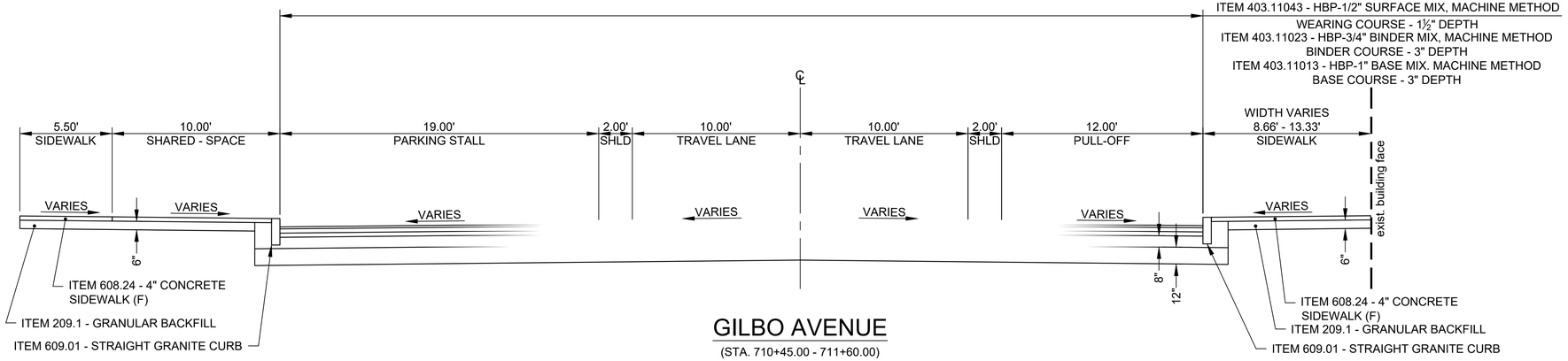
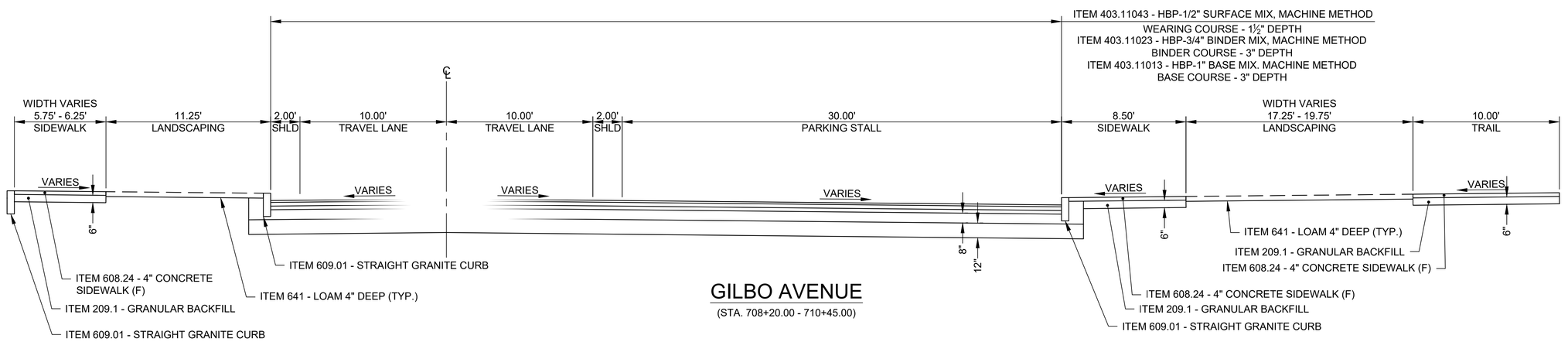


GILBO AVENUE

(STA. 710+45.00 - 711+60.00)



GILBO AVENUE

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KEENE, NEW HAMPSHIRE

Title
TYPICAL SECTIONS
SHEET 05 OF 09

Project No.	Scale
179450806	1" = 4'

Revision	Sheet	Drawing No.
-	09 of 232	**TYP-05**

ORIGINAL SHEET - ANSI D

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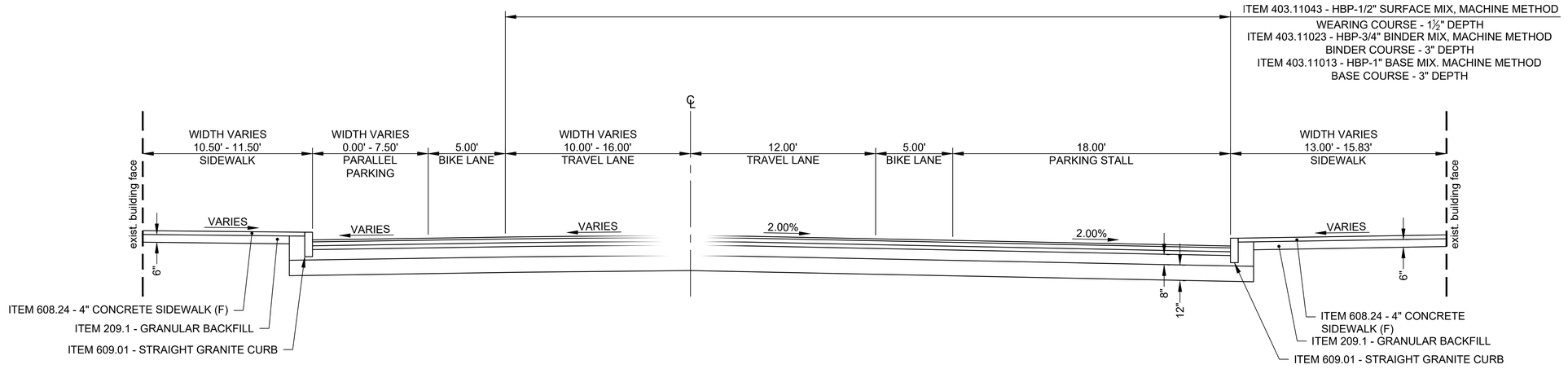
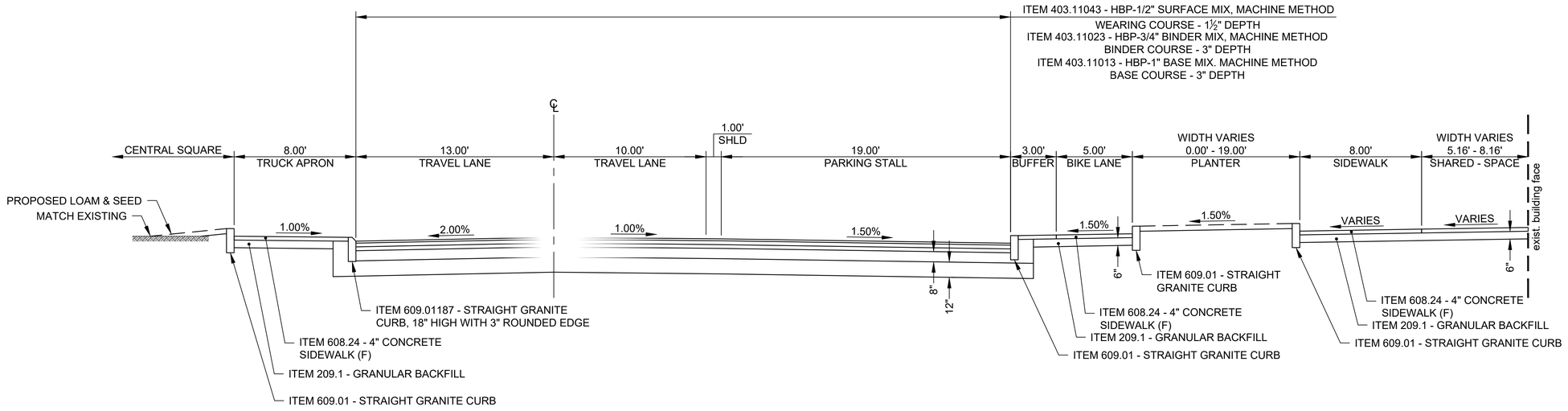


WASHINGTON STREET

(STA. 402+80.00 - 403+42.00)



WASHINGTON STREET

(STA. 400+70.00 - 402+25.00)

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Notes

Revision	By	Appd	YYYY-MM-DD
Issued	By	Appd	YYYY-MM-DD
File Name: 50806_TYP	TJG Dwn.	TJG Dsgn.	DEM Chkd. 2025-01-28 YYYY-MM-DD

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Client/Project
CITY OF KEENE

KEENE DOWNTOWN IMPROVEMENTS

KEENE, NEW HAMPSHIRE

Title
TYPICAL SECTIONS
SHEET 06 OF 09

Project No.	Scale
179450806	1" = 4'

Revision	Sheet	Drawing No.
-	10 of 232	TYP-06

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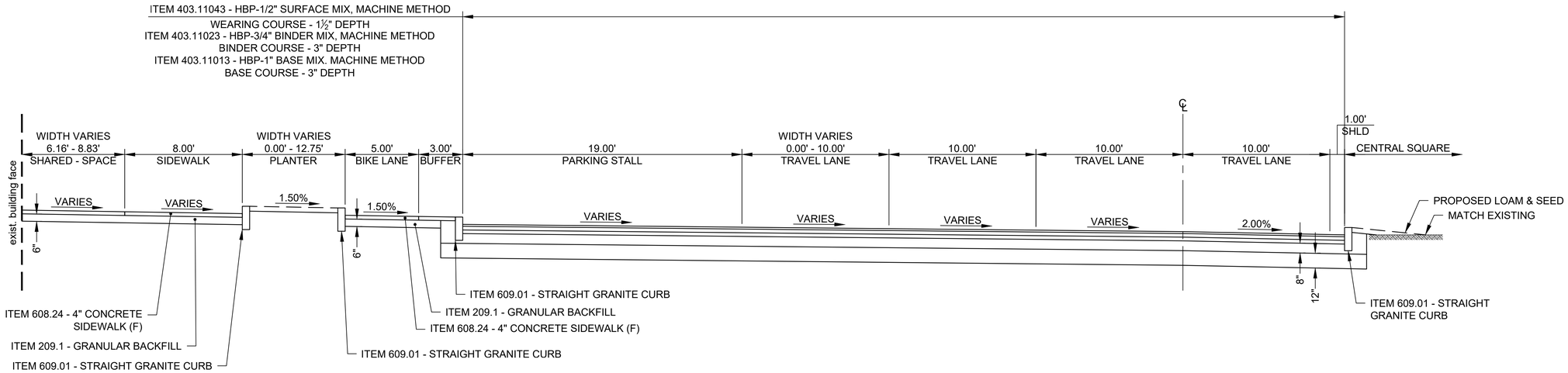
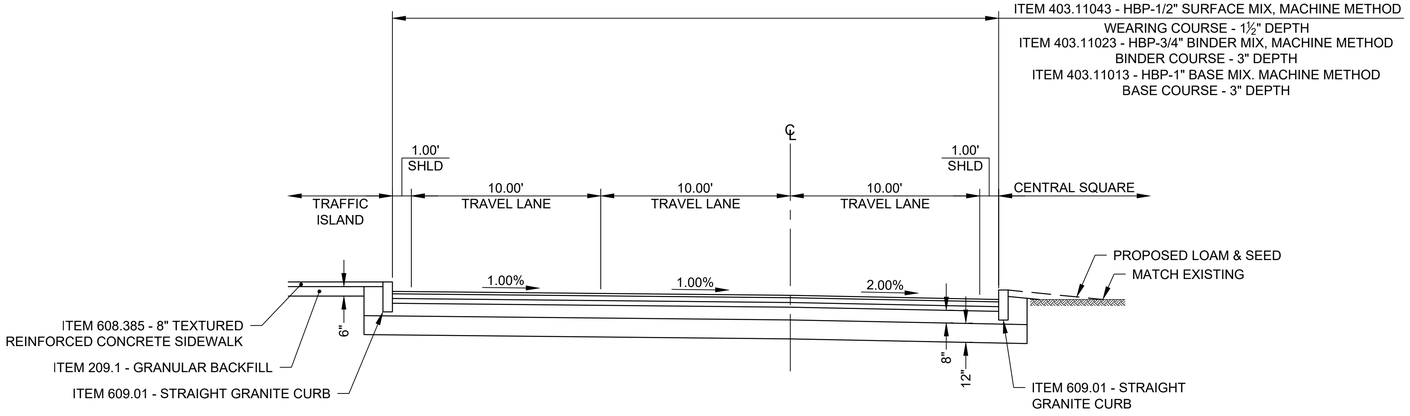


COURT STREET

(STA. 501+00.00 - 502+25.00)



COURT STREET

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Issued	By	Appd	YYYY-MM-DD
File Name: 50806_TYP	TJG Dwn.	TJG Dsgn.	DEM Chkd.	2025-01-28 YYYY-MM-DD

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KEENE, NEW HAMPSHIRE

Title
TYPICAL SECTIONS
SHEET 07 OF 09

Project No.	Scale
179450806	1" = 4'

Revision	Sheet	Drawing No.
-	11 of 232	TYP-07

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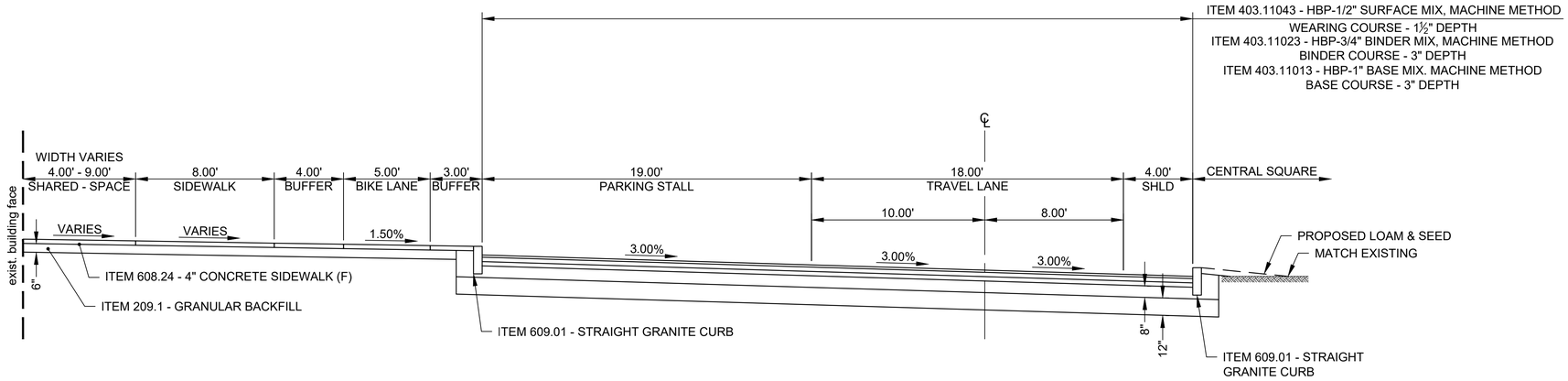

CENTRAL SQUARE - NORTH

(STA. 800+45.00 - 802+35.00)

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Issued	By	Appd	YYYY-MM-DD
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KEENE DOWNTOWN IMPROVEMENTS

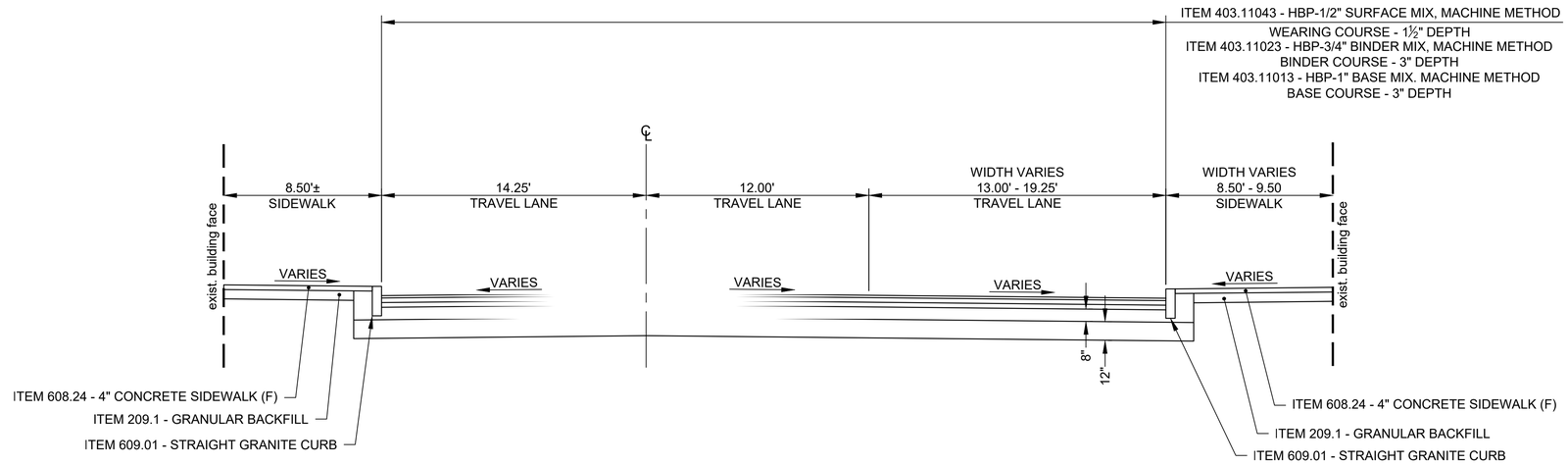
KEENE, NEW HAMPSHIRE

Title
TYPICAL SECTIONS
SHEET 08 OF 09

Project No.	Scale
179450806	1" = 4'

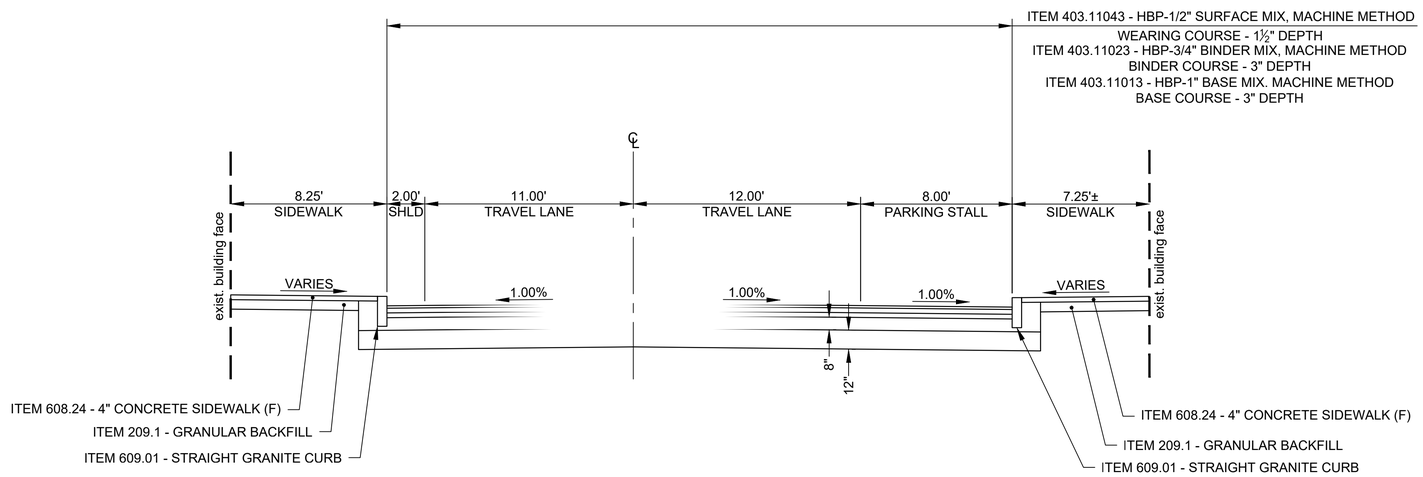
Revision	Sheet	Drawing No.
-	12 of 232	**TYP-08**

ORIGINAL SHEET - ANSI D



WEST STREET

(STA. 300+90.00 - 302+00.00)



ROXBURY STREET

(STA. 200+45.00 - 201+25.00)

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-			

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	Dwn.	Dsgn.	Chkd. YYYY-MM-DD

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KEENE DOWNTOWN IMPROVEMENTS

KEENE, NEW HAMPSHIRE

Title
TYPICAL SECTIONS
SHEET 09 OF 09

Project No.	Scale
179450806	1" = 4'

Revision	Sheet	Drawing No.
-	13 of 232	TYP-09

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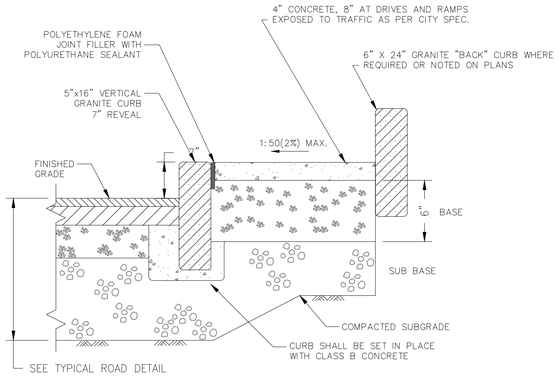
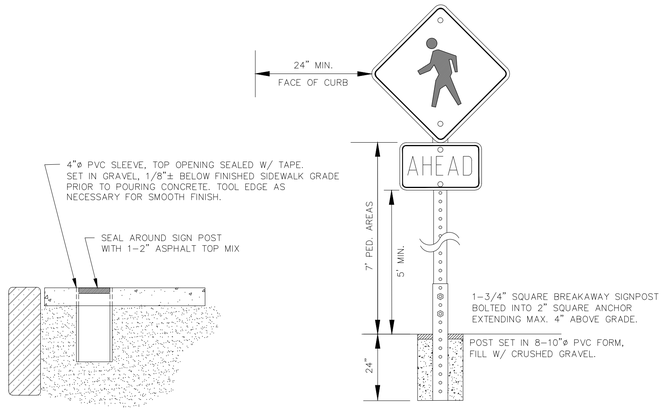


ALL SIDEWALKS SHALL COMPLY WITH KEENE SIDEWALK CONSTRUCTION SPECIFICATIONS.

1 SIDEWALK DETAIL

NOT TO SCALE



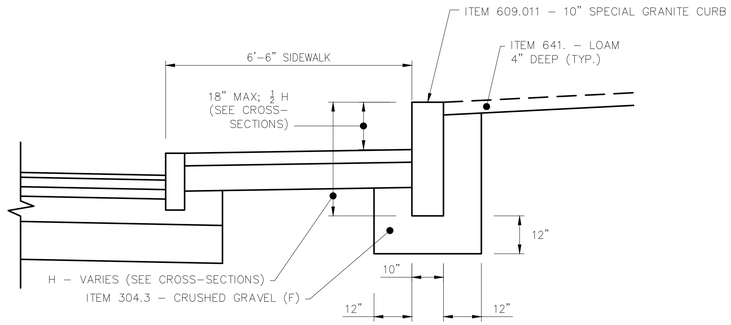
NOTES:
1.) SIGN TYPE AND SIZE VARIES DEPENDING ON LOCATION. ALL APPLICATIONS SHALL COMPLY WITH MUTCD.
2.) ALL SIGN HARDWARE AND MATERIALS SHALL BE PROVIDED IN ACCORDANCE WITH NH STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.
3.) SLEEVE AND ALL ASSOCIATED WORK SHALL BE SUBSIDIARY TO SIDEWALK CONSTRUCTION.
4.) SIGNPOST LOCATION TO BE COORDINATED WITH AND MARKED OUT ON SITE BY THE KEENE DPW HIGHWAY DIVISION.

2 SIGN POST DETAIL

NOT TO SCALE

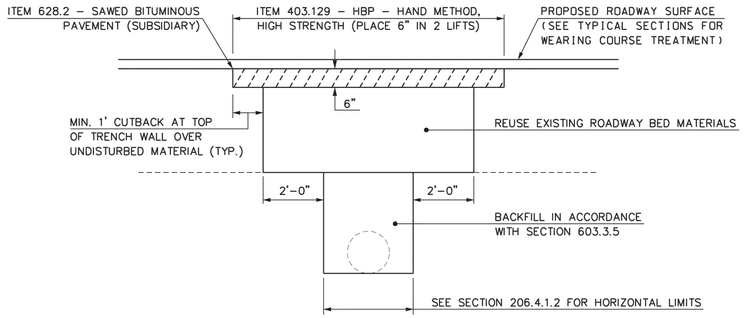
SIDEWALK NOTES

1. CONCRETE SIDEWALKS SHALL BE A MINIMUM OF 5 FEET WIDE, 6 FEET WIDE IN COMMERCIAL AREAS
2. CONCRETE SIDEWALKS SHALL BE A MINIMUM OF 4" THICK. 8" THICK WHERE EXPOSED TO TRAFFIC
3. SUB BASE SHALL BE A MINIMUM THICKNESS OF 12" OF CLEAN GRANULAR MATERIAL OR SUITABLE NATIVE/EXISTING MATERIAL COMPACTED TO 95%.
4. BASE SHALL BE A MINIMUM THICKNESS OF 6" OF CRUSHED GRAVEL COMPACTED TO 95%
5. SIDEWALKS SHALL BE GRADED TO DRAIN, CROSS SLOPE NOT TO EXCEED 2%
6. MAXIMUM LONGITUDINAL GRADE SHALL BE 8.3%
7. MINIMUM LONGITUDINAL GRADE SHALL BE 0.5%
8. CONCRETE SHALL BE 4000 PSI CLASS AA CONCRETE WITH 1.5 LBS OF SYNTHETIC FIBER REINFORCEMENT PER CUBIC YARD,
9. CONCRETE SHALL HAVE 5-9% AIR ENTRAINMENT.
10. SLUMP SHALL BE BETWEEN 3" AND 5".
11. 4 TEST CYLINDERS PER LOAD OF CONCRETE, BY CERTIFIED CONCRETE TESTER.
12. MAXIMUM SPACING OF EXPANSION JOINTS SHALL BE 30 FEET, AT CURB RAMPS, AND EXTEND FULL WIDTH OF SIDEWALK.
13. CONTROL JOINTS SHALL BE A UNIFORM DISTANCE APART, TYPICALLY SPACED FIVE FEET, AND 3/4" DEEP.
15. ALL EDGES AND JOINTS SHALL BE FINISHED WITH A HAND EDGING TOOL.
16. THE SURFACE OF THE SIDEWALK SHALL BE MAG-FLOATED AND TROWELED, AND GIVEN A FINE GRAINED BROOM FINISH.
17. AS SOON AS THE CONCRETE HAS ATTAINED ITS INITIAL SET, IT SHALL BE COVERED WITH PLASTIC, BURLAP, OR OTHER APPROVED MATERIAL AND KEPT MOIST FOR A MINIMUM OF 7 DAYS TO CURE, AND SHALL NOT BE ALLOWED TO FREEZE. NO TRAFFIC SHALL BE ALLOWED ON THE SIDEWALK DURING THE CURING PERIOD.
18. CONCRETE SHALL BE SEALED WITHTHE FOLLOWING METHOD, OR AS APPROVED BY THE ENGINEER:
    A. WATER REPELLANT TREATMENT OF SILANE-SILOXANE APPLIED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.



BACK CURB DETAIL

STA. 31+18 RT TO STA. 31+69 RT
NOT TO SCALE



PERMANENT PAVEMENT TRENCH REPAIR FOR DRAINAGE OR CONDUIT

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Issued	By	Appd	YYYY-MM-DD
File Name: 50806_DTL	TJG Dwn.	TJG Dsgn.	DEM Chkd.	2025-01-29 YYYY-MM-DD

Permit/Seal

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Client/Project Logo

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KEENE DOWNTOWN IMPROVEMENTS

KEENE, NEW HAMPSHIRE

Title
ROADWAY DETAILS
(SHEET 01 OF 04)

Project No.	Scale
179450806	NTS
Revision: -	Sheet: 15 of 232
	Drawing No. DTL-01

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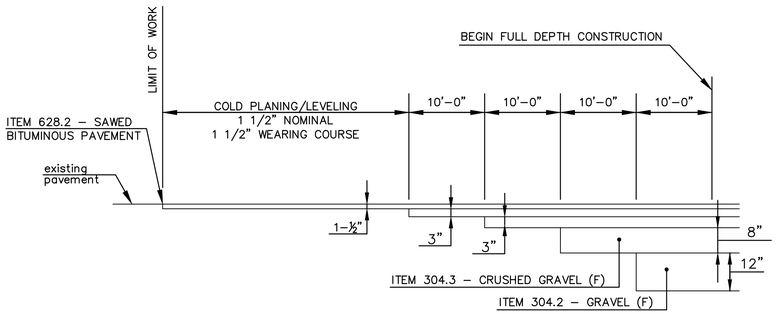
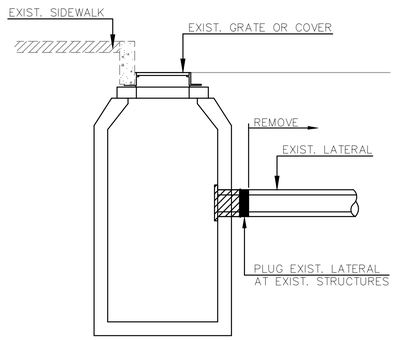


CONSTRUCTION APPROACH

NOT TO SCALE

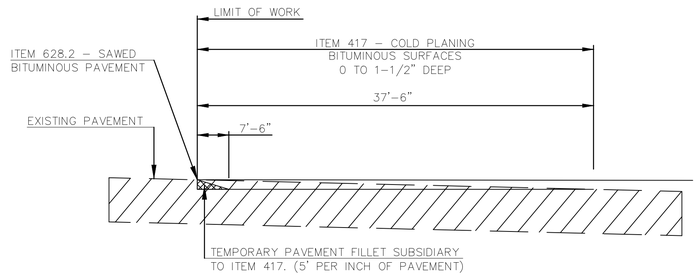


NOTES:

1. FOR EXISTING BRICK MANHOLES, REPAIR EXISTING BRICK WORK AND FILL ANNULAR SPACE WITH NON-SHRINK GROUT AS NECESSARY.
2. THE CONTRACTOR SHALL INSTALL PLUGS A MINIMUM OF 12" INTO EXISTING LATERAL AT EXISTING STRUCTURES, FILL WITH NON-SHRINK GROUT TO THE FACE OF THE STRUCTURE AND PARGE A MINIMUM OF 2" AROUND THE ABANDONED CONNECTION.
3. THE CONTRACTOR SHALL UTILIZE THE EXISTING OPENING AT THE STRUCTURE FOR INSTALLATION OF NEW LATERALS WHENEVER POSSIBLE.
4. PLUG EXISTING INVERTS SHALL BE SUBSIDIARY AND NOT MEASURED SEPARATELY.

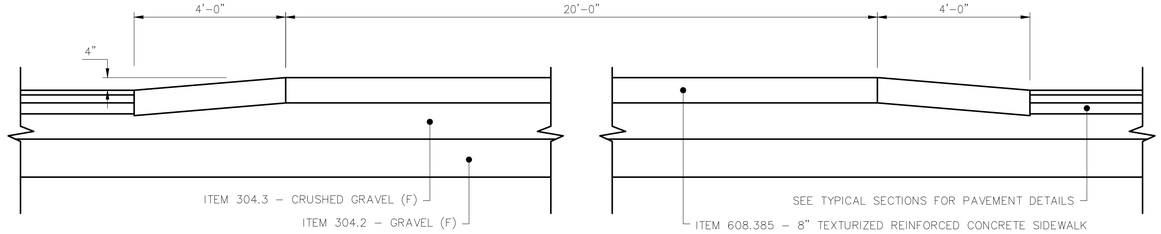
TYPICAL DETAIL FOR PLUGGING EXISTING LATERAL AT EXISTING STRUCTURE

NOT TO SCALE



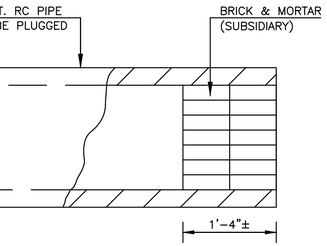
PAVEMENT TRANSITION SIDE ROADS AND MAJOR DRIVEWAYS

NOT TO SCALE



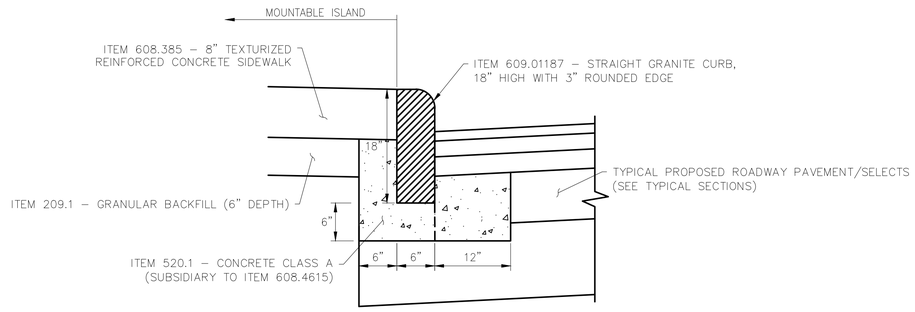
SPEED TABLE DETAIL

NOT TO SCALE



PIPE PLUG DETAIL

NOT TO SCALE



MOUNTABLE ISLAND DETAIL

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Issued	By	Appd	YYYY-MM-DD

File Name: 50806_DTL	TJG	TJG	DEM	2025-01-29
	Dwn.	Dsgn.	Chkd.	YYYY-MM-DD

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KEENE, NEW HAMPSHIRE

Title
ROADWAY DETAILS
(SHEET 02 OF 04)

Project No.	Scale
179450806	NTS

Revision	Sheet	Drawing No.
-	16 of 232	DTL-02

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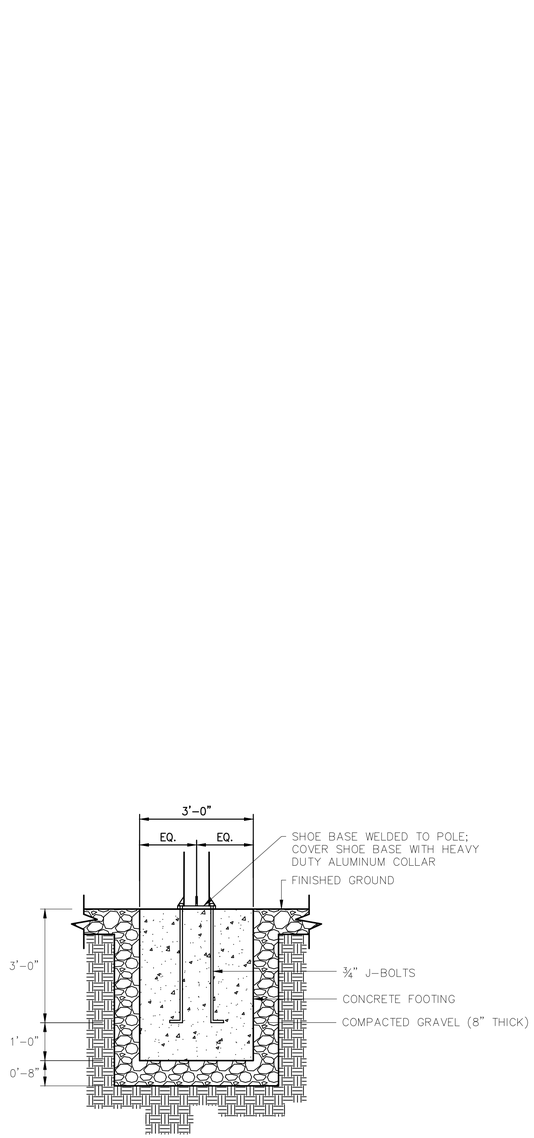
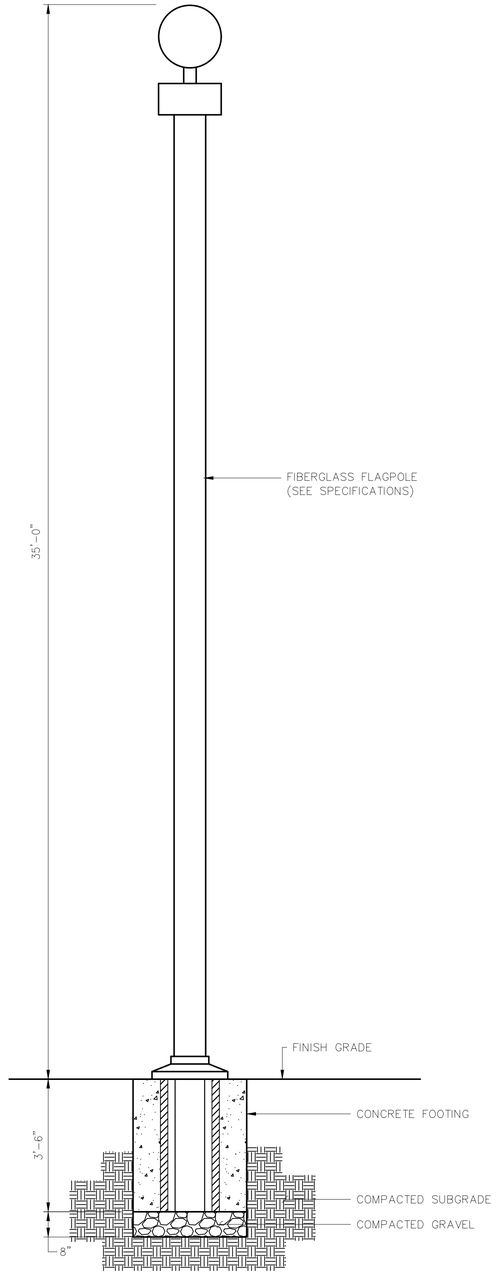


FLAGPOLE SHOE BASE FOOTING DETAIL

NOT TO SCALE



FLAGPOLE DETAIL

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			2025-01-29 YYYY-MM-DD

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KEENE, NEW HAMPSHIRE

Title
ROADWAY DETAILS
(SHEET 03 OF 04)

Project No.	Scale
179450806	NTS

Revision	Sheet	Drawing No.
-	17 of 232	**DTL-03**

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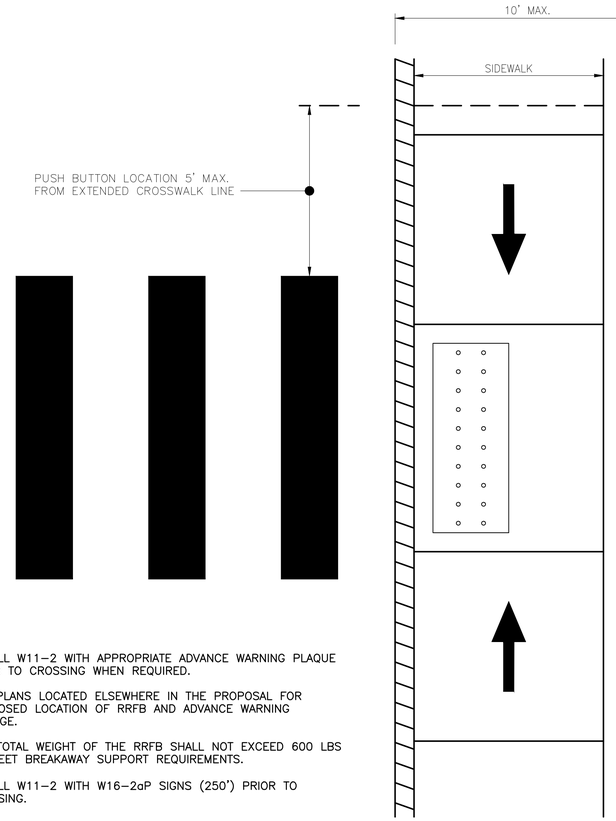
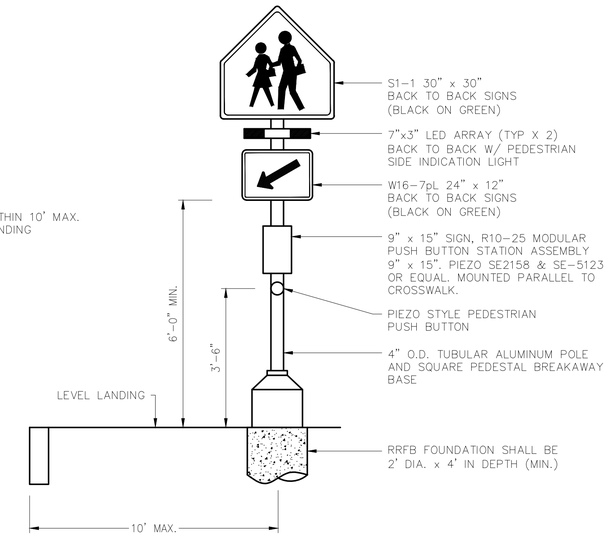


NOTES:

1. INSTALL W11-2 WITH APPROPRIATE ADVANCE WARNING PLAQUE PRIOR TO CROSSING WHEN REQUIRED.
2. SEE PLANS LOCATED ELSEWHERE IN THE PROPOSAL FOR PROPOSED LOCATION OF RRFB AND ADVANCE WARNING SIGNAGE.
3. THE TOTAL WEIGHT OF THE RRFB SHALL NOT EXCEED 600 LBS TO MEET BREAKAWAY SUPPORT REQUIREMENTS.
4. INSTALL W11-2 WITH W16-2aP SIGNS (250') PRIOR TO CROSSING.

RRFB LOCATION - STANDARD SIDEWALK

NOT TO SCALE



RECTANGULAR RAPID FLASHING BEACON (RRFB) DETAIL

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KEENE, NEW HAMPSHIRE

Title
ROADWAY DETAILS
(SHEET 04 OF 04)

Project No.	Scale
179450806	NTS

Revision	Sheet	Drawing No.
-	18 of 232	DTL-04

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ORIGINAL SHEET - ANSI D

GENERAL NOTES:

1. THESE SHEETS ARE IN ACCORDANCE WITH THE AMERICANS WITH DISABILITIES ACT (ADA), AND THE REQUIREMENTS OF THE 2011 PROPOSED ACCESSIBILITY GUIDELINES FOR PEDESTRIAN FACILITIES IN THE PUBLIC RIGHT OF WAY (PROWAG).

2. NOT ALL FACILITIES CAN BE CONSTRUCTED TO MEET THE DESIGN STANDARDS. FACILITIES THAT CANNOT BE CONSTRUCTED TO MEET THE DESIGN STANDARDS SHALL BE CONSTRUCTED TO MEET THE STANDARDS TO THE GREATEST EXTENT PRACTICABLE. NONSTANDARD FEATURES SHALL BE DOCUMENTED ON TECHNICAL INFEASIBILITY FORM AND SUBMITTED TO NHDOT ADA COORDINATOR FOR APPROVAL.

3. TO CHECK FIELD LAYOUT ALL SLOPES AND GRADES SHALL BE MEASURED WITH A DIGITAL LEVEL USING AT LEAST TWO READINGS. WHERE THE READINGS VARY, THE MEASUREMENTS SHALL BE AVERAGED. GRADE (RUNNING SLOPE) SHALL BE MEASURED ALONG THE CENTERLINE AND OFFSET 1.00' TO 1.50' FROM THE CENTERLINE. CROSS SLOPES SHALL BE MEASURED PERPENDICULAR TO CENTERLINE AT 5.00' TO 10.00' INTERVALS.

4. GRADES (RUNNING SLOPES) ARE MEASURED IN THE DIRECTION OF PEDESTRIAN TRAVEL. CROSS SLOPES ARE MEASURED PERPENDICULAR TO THE DIRECTION OF PEDESTRIAN TRAVEL.

5. JOINTS BETWEEN SIDEWALKS, CURB RAMPS, TURNING SPACES AND ROADWAYS SHALL BE FLUSH AND FREE FROM ABRUPT VERTICAL CHANGES GREATER THAN 1/4". VERTICAL SURFACE DISCONTINUITIES BETWEEN 1/4" AND 1/2" SHALL BE BEVELED WITH A SLOPE NOT STEEPER THAN 2:1. THE BEVEL SHALL BE APPLIED ACROSS THE ENTIRE JOINT. SEE DETAIL ON SHEET 9 OF 9.

6. SIDEWALKS ARE CONNECTED TO ROADWAYS BY EITHER BLENDED TRANSITIONS OR CURB RAMPS. BLENDED TRANSITIONS ARE CONNECTIONS BETWEEN THE SIDEWALK LEVEL AND THE ROADWAY LEVEL THAT HAVE A MAXIMUM GRADE (RUNNING SLOPE) OF 5%, AND TRANSITIONS GREATER THAN 5% ARE CONSIDERED CURB RAMPS.

7. CURB RAMPS AND BLENDED TRANSITIONS MAY REQUIRE THE INSTALLATION OF DETECTABLE WARNINGS. SEE ADDITIONAL "DETECTABLE WARNING DEVICE NOTES" ON THIS SHEET, AND DETAILS ON SHEET 6 OF 10 FOR DIMENSIONS, ORIENTATION AND INSTALLATION.

8. VERTICAL ALIGNMENT SHALL BE GENERALLY PLANAR. GRADE BREAKS WITHIN THE PEDESTRIAN ACCESS ROUTE SHALL BE PERPENDICULAR TO THE DIRECTION OF TRAVEL AND SHALL NOT BE ROUNDED.

9. THE CROSS SLOPE OF PEDESTRIAN ACCESS ROUTES (PAR) SHALL BE 2% MAXIMUM. THE FOLLOWING EXCEPTIONS ARE ALLOWED:

   A. WHERE PEDESTRIAN CROSSINGS ARE PROVIDED AT INTERSECTIONS WITHOUT YIELD OR STOP CONTROL OR WHERE THERE IS ANY TRAFFIC SIGNAL, THE CROSS SLOPE OF A PEDESTRIAN ACCESS ROUTE CONTAINED WITHIN A CROSSING SHALL BE 5% MAXIMUM.

   B. WHERE MIDBLOCK PEDESTRIAN CROSSINGS ARE PROVIDED, THE CROSS SLOPE OF A PEDESTRIAN ACCESS ROUTE CONTAINED WITHIN A MIDBLOCK CROSSING SHALL BE PERMITTED TO EQUAL THE STREET OR HIGHWAY GRADE.

10. THE MINIMUM CLEAR WIDTH FOR PEDESTRIAN ACCESS ROUTES IS 4.00', EXCLUSIVE OF THE CURB. WHEN WALKWAY WIDTHS ARE LESS THAN 5.00', 5.00' x 5.00' PASSING SPACES, OR A FEATURE OF EQUAL OR GREATER DIMENSIONS (E.G., DRIVEWAYS) THAT MEET THE SLOPE CRITERIA, SHALL BE PROVIDED AT A MAXIMUM INTERVAL OF 200'. EXISTING DRIVEWAYS AND STREET CROSSINGS MAY ALSO SERVE AS PASSING SPACES.

11. THE BUFFER ZONE IS A PHYSICAL DISTANCE SEPARATING THE PEDESTRIAN ACCESS ROUTE FROM THE VEHICLE TRAVELED WAY. THE BUFFER ZONE MAY BE PLANTED OR PAVED.

12. WHEN CROSSING DRIVEWAYS, THE WORK SHALL BE IN CONFORMANCE WITH NHDOT DRIVEWAY DETAILS SHEET. THE CROSS SLOPE ACROSS DRIVEWAYS SHALL BE 2% MAXIMUM.

13. FOR ACCESSIBLE PEDESTRIAN SIGNAL PUSH BUTTONS, SEE DETAILS ON SHEET 8 OF 9.

14. FOR RAMP COUNTER SLOPE REQUIREMENTS, SEE DETAILS ON SHEET 9 OF 9.

CURB RAMP NOTES:

15. THE MINIMUM WIDTH OF A CURB RAMP SHALL BE 4.00'.

16. THE FULL WIDTH OF THE RAMP OR LANDING SHALL BE CONTAINED WITHIN THE PAVEMENT MARKINGS AT MARKED CROSSWALKS.

17. CURB RAMPS ARE NOT REQUIRED IN LOCATIONS WHERE THERE IS NO ACCESSIBLE PEDESTRIAN ACCESS ROUTE. UNLESS IT IS SERVING AS A LANDING FOR A PEDESTRIAN SIGNAL.

18. THE GRADE (RUNNING SLOPE) OF A CURB RAMP SHALL BE A MAXIMUM OF 8.3%.

19. WHERE EXISTING CONDITIONS DO NOT ALLOW THE CONSTRUCTION OF A CURB RAMP WITH A GRADE (RUNNING SLOPE) OF 8.3% OR LESS, THE RAMP LENGTH SHALL NOT BE REQUIRED TO EXCEED 15.00'.

20. THE CROSS SLOPE OF THE CURB RAMP SHALL BE AS FLAT AS POSSIBLE AND STILL PROVIDE POSITIVE DRAINAGE. THE CROSS SLOPE OF A CURB RAMP SHALL BE 2% MAXIMUM. SEE NOTE 9 FOR EXCEPTIONS. WHERE THE EXISTING ROADWAY GRADE EXCEEDS 2%, THE CURB RAMPS MAY BE WARPED ACCORDING TO THE DETAIL ON SHEET 9 OF 9 TO TIE INTO THE ROADWAY GRADE.

21. RAMP SIDE TREATMENT OPTIONS ARE DETAILED ON SHEET 7 OF 9 FOR USE WITHIN THE BUFFER ZONE, WHERE A PEDESTRIAN CIRCULATION PATH CROSSES THE CURB RAMP, FLARED SIDES SHALL BE INSTALLED WITH A SLOPE OF 10% MAXIMUM. THE SLOPE OF FLARED SIDES IS MEASURED PARALLEL TO THE CURB LINE. (ALSO SEE CURB RAMP CONFIGURATION TYPE 7 ON SHEET 3 OF 9).

22. THE BACKSIDE OF A PARALLEL RAMP SHOULD BE GRADED TO MATCH EXISTING TERRAIN. UNLESS OTHERWISE SHOWN IN THE CONTRACT DOCUMENTS. WHERE GRADING IS NOT FEASIBLE DUE TO LIMITED ROW OR PHYSICAL CONSTRAINTS, A BACK CURB MAY BE INSTALLED. SEE DETAILS ON SHEET 7 OF 9.

TURNING SPACE AND CLEAR SPACE NOTES:

23. WHERE A CHANGE IN DIRECTION IS REQUIRED TO UTILIZE A CURB RAMP, A TURNING SPACE SHALL BE PROVIDED AT THE BASE AND/OR THE TOP OF CURB RAMP AS APPLICABLE. TURNING SPACES SHALL BE PERMITTED TO OVERLAP CLEAR SPACES.

24. WHERE THERE ARE NO VERTICAL CONSTRAINTS AT THE BACK OF SIDEWALK, (E.G., VERTICAL CURB, BUILDINGS, FENCES) THE TURNING SPACE DIMENSIONS SHALL BE 4.00' X 4.00' MINIMUM. WHERE THE TURNING SPACE IS CONSTRAINED AT THE BACK OF THE SIDEWALK, THE TURNING SPACE SHALL BE 4.00' X 5.00' MINIMUM. THE 5.00' DIMENSION SHALL BE PROVIDED PERPENDICULAR TO THE CONSTRAINT.

25. TURNING SPACE MAXIMUM CROSS SLOPE IS 2% IN AN DIRECTION.

26. BEYOND THE BOTTOM GRADE BREAK, A CLEAR SPACE OF 4.00' X 4.00' MINIMUM SHALL BE PROVIDED WITHIN THE WIDTH OF THE PEDESTRIAN CROSSWALK, AND OUTSIDE THE PARALLEL VEHICLE TRAVEL LANE. THE CLEAR SPACE MAY OVERLAP TURNING SPACES, DETECTABLE WARNING SURFACES, AND DROP CURBS.

DETECTABLE WARNING DEVICE NOTES:

27. DETECTABLE WARNING DEVICES (DWD) SHALL BE PROVIDED AT THE FOLLOWING LOCATIONS OF PEDESTRIAN ACCESS ROUTES:

   A. CURB RAMPS AT PEDESTRIAN CROSSINGS.

   B. PEDESTRIAN REFUGE ISLANDS (WHERE THE LENGTH OF THE PEDESTRIAN ACCESS ROUTE ACROSS THE REFUGE ISLAND IS GREATER THAN OR EQUAL TO 6.00'). SEE SHEET 8 OF 9

   C. PEDESTRIAN AT-GRADE RAIL CROSSING NOT LOCATED WITHIN A STREET OR HIGHWAY.

   D. DRIVEWAY CROSSINGS WITH NHDOT APPROVED AND MAINTAINED SIGNALS, YIELD OR STOP CONTROL. DETECTABLE WARNING DEVICES SHALL NOT BE PROVIDED AT CROSSINGS OF UNCONTROLLED DRIVEWAY APRONS.

28. SOME DETECTABLE WARNING PRODUCTS REQUIRE A CONCRETE BORDER FOR PROPER INSTALLATION. IF REQUIRED, THE BORDER SHALL NOT EXCEED 2" IN WIDTH OR 6" ALONG ROADWAY EDGE/CURB. THE BORDER DIMENSIONS SHALL BE MEASURED FROM THE INSIDE EDGE OF THE RADIUS.

29. THE DETAILS PROVIDED ARE NOT DRAWN TO SCALE. THE QUANTITY OF DOMES DEPICTED ON THE DETECTABLE WARNING DEVICE DETAIL IS FOR ILLUSTRATION ONLY. THE SIZE OF THE DETECTABLE WARNING FIELD SHALL BE 2.00' MINIMUM IN THE DIRECTION OF TRAVEL AND SHALL EXTEND THE FULL WIDTH OF THE CURB RAMP OR FLUSH SURFACE, EXCLUDING ANY FLARED SIDES. THE WIDTH OF THE DETECTABLE WARNING FIELD INCLUDES A CONCRETE BORDER, IF PROVIDED. PLACEMENT AND ORIENTATION SHALL BE IN COMPLIANCE WITH THE DETAILS.

30. ON SLOPES OF 5% OR GREATER, THE ROWS OF DOMES SHALL BE ALIGNED TO BE PERPENDICULAR OR RADIAL TO THE LOWER GRADE BREAK ON THE RAMP RUN. WHERE DOMES ARE ARRAYED RADIALLY THEY MAY DIFFER IN DOME DIAMETER AND CENTER-TO-CENTER SPACING WITHIN THE RANGES SPECIFIED ON SHEET 9. ON SLOPES LESS THEN 5%, DOME ORIENTATION IS LESS CRITICAL AND MAY DIFFER FROM PERPENDICULAR OR RADIAL ALIGNMENT TO THE GRADE BREAK.

31. THE DETECTABLE WARNING SURFACES SHALL CONTRAST VISUALLY WITH ADJACENT GUTTER, STREET OR HIGHWAY, OR PEDESTRIAN ACCESS ROUTE SURFACE.

32. DETECTABLE WARNING PANELS SHALL BE CAST IRON WITH NO SURFACE COATING AND SHALL BE ALLOWED TO TRANSITION TO THEIR NATURAL PATINA.

DEFINITION OF TERMS:

LANDING: A 4.00' X 4.00' CLEAR SPACE WITH A 2% SLOPE OR LESS IN ALL DIRECTIONS.

MAXIMUM EXTENT FEASIBLE: ALL CHANGES THAT ARE POSSIBLE ARE MADE TO COMPLY WITH ACCESSIBILITY STANDARDS.

PEDESTRIAN ACCESS ROUTE (PAR): A CONTINUOUS AND UNOBSTRUCTED PATH OF TRAVEL PROVIDED FOR PEDESTRIANS WITH DISABLITIES WITHIN OR CONINCIDING WITH A PEDESTRIAN CIRCULATION PATH. PAR SHALL BE 4'W MIN.(EXCLUDING CURBING), 2% MAX. CROSS SLOPE AND 1/4" OR LESS VERTICAL DISCONTINUITY.

TECHNICAL INFEASIBILITY: EXISTING PHYSICAL OR SITE CONSTRAINTS THAT PROHIBIT MODIFICATIONS OR ADDITIONS OF ELEMENTS, SPACES OR FEATURES TO COMPLY WITH MINIMUM ACCESSIBILITY REQUIREMENTS.

INDEX OF SHEETS

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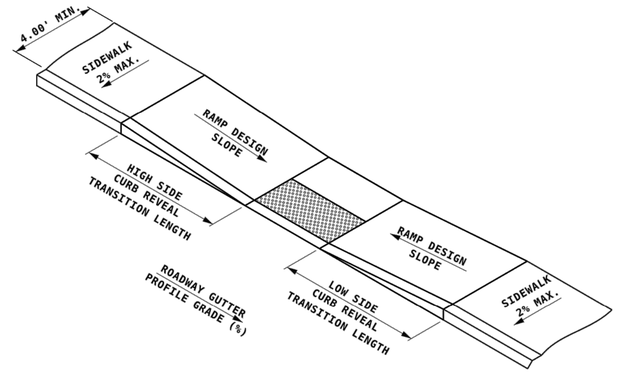
6 OF 9	DETECTABLE WARNING DEVICE PLACEMENT OPTIONS
7 OF 9	RAMP SIDE CONFIGURATIONS AND BACK TREATMENTS
8 OF 9	RR X-INGS, ROUNDABOUTS, PEDESTRIAN BUTTONS
9 OF 9	DETECTABLE WARNING DEVICE, TRUNCATED DOMES, MISCELLANEOUS DETAILS



TYPICAL CURB TRANSITION LENGTH TABLE

CURB REVEAL (INCHES)		7	6	5	4	3	2	1
	ROADWAY PROFILE GRADE (%)	Minimum Transition Length Required (FT)						
Low Side Transition Length	-10%	5.0	5.0	5.0	5.0	5.0	5.0	5.0
	-9%	5.0	5.0	5.0	5.0	5.0	5.0	5.0
	-8%	5.0	5.0	5.0	5.0	5.0	5.0	5.0
	-7%	5.0	5.0	5.0	5.0	5.0	5.0	5.0
	-6%	5.0	5.0	5.0	5.0	5.0	5.0	5.0
	-5%	5.0	5.0	5.0	5.0	5.0	5.0	5.0
	-4%	5.1	5.0	5.0	5.0	5.0	5.0	5.0
	-3%	5.6	5.0	5.0	5.0	5.0	5.0	5.0
	-2%	6.1	5.3	5.0	5.0	5.0	5.0	5.0
	-1%	6.9	5.9	5.0	5.0	5.0	5.0	5.0
	0%	7.8	6.7	5.6	5.0	5.0	5.0	5.0
High Side Transition Length	1%	9.0	7.7	6.4	5.1	5.0	5.0	5.0
	2%	10.6	9.1	7.6	6.1	5.0	5.0	5.0
	3%	13.0	11.1	9.3	7.4	5.6	5.0	5.0
	4%	15.0	14.3	11.9	9.5	7.1	5.0	5.0
	5%	15.0	15.0	15.0	13.3	10.0	6.8	5.0
	6%	15.0	15.0	15.0	15.0	15.0	11.3	5.3
	7%	15.0	15.0	15.0	15.0	15.0	15.0	15.0
	8%	15.0	15.0	15.0	15.0	15.0	15.0	15.0
	9%	15.0	15.0	15.0	15.0	15.0	15.0	15.0
	10%	15.0	15.0	15.0	15.0	15.0	15.0	15.0

THIS TABLE REPRESENTS THE MINIMUM LENGTH OF CURB RAMP TRANSITION BASED ON THE EXISTING ROADWAY PROFILE GRADE AND THE CURB REVEAL AT FULL HEIGHT ALONG THE SIDEWALK. THE MINIMUM TRANSITION LENGTH REQUIRED IS BASED ON 7.5% SLOPE AND INDICATED CURB REVEAL.

TREATMENT KEY LEGEND

(RESURFACING STYLE PROJECTS)

#—#—$—$

- RAMP BACK TREATMENT OPTION - SEE SHEET 7
- RAMP SIDE CONFIGURATION - SEE SHEET 7
- DETECTABLE WARNING DEVICE PLACEMENT - SEE SHEET 6
- RAMP CONFIGURATION TYPE - SEE SHEETS 2-5 (X = OMIT THIS OPTION)

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Title
SIDEWALK CURB RAMP DETAILS (SHEET 01 OF 09)

Project No.	Scale
179450806	NTS

Revision	Sheet	Drawing No.
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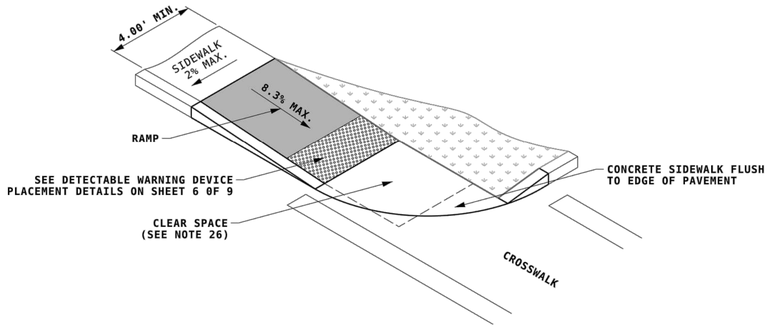

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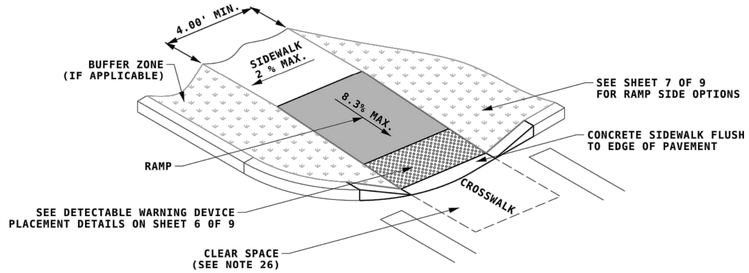

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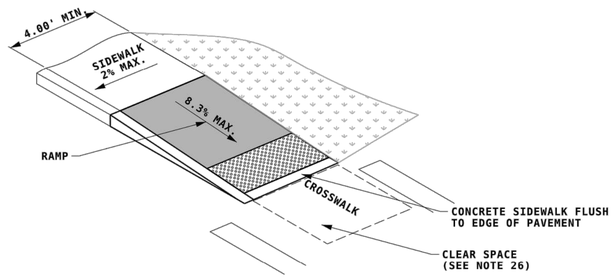

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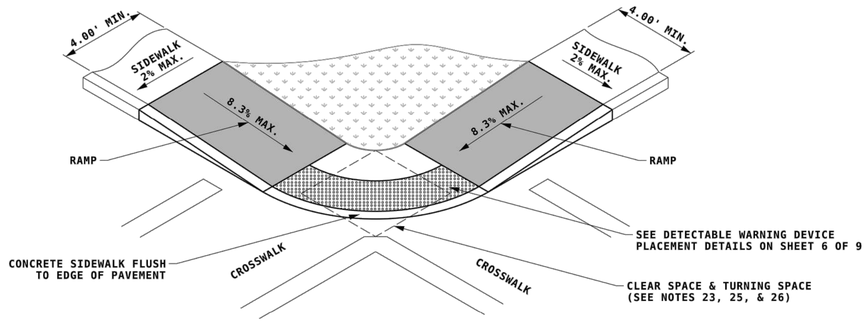

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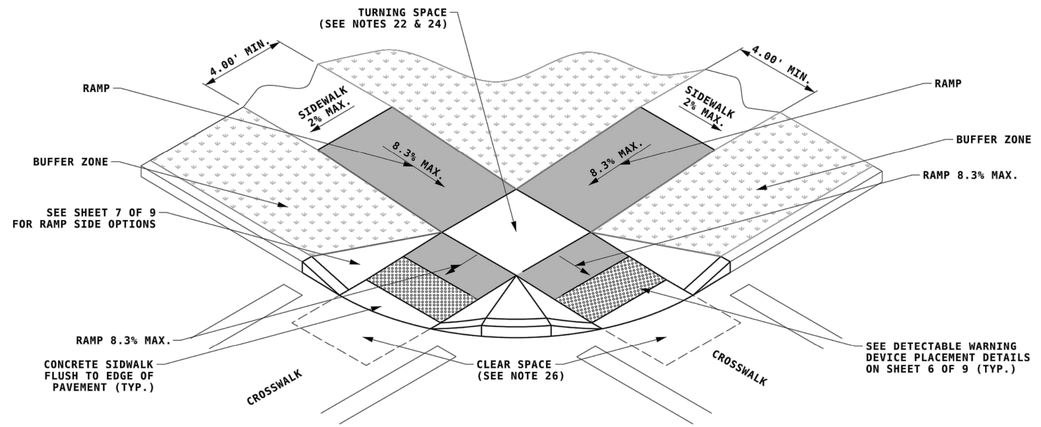

TYPE 5

CURB RAMP CONFIGURATIONS

NOTE:
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Project No.	Scale
179450806	NTS
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Drawing No.	**DTL-06**

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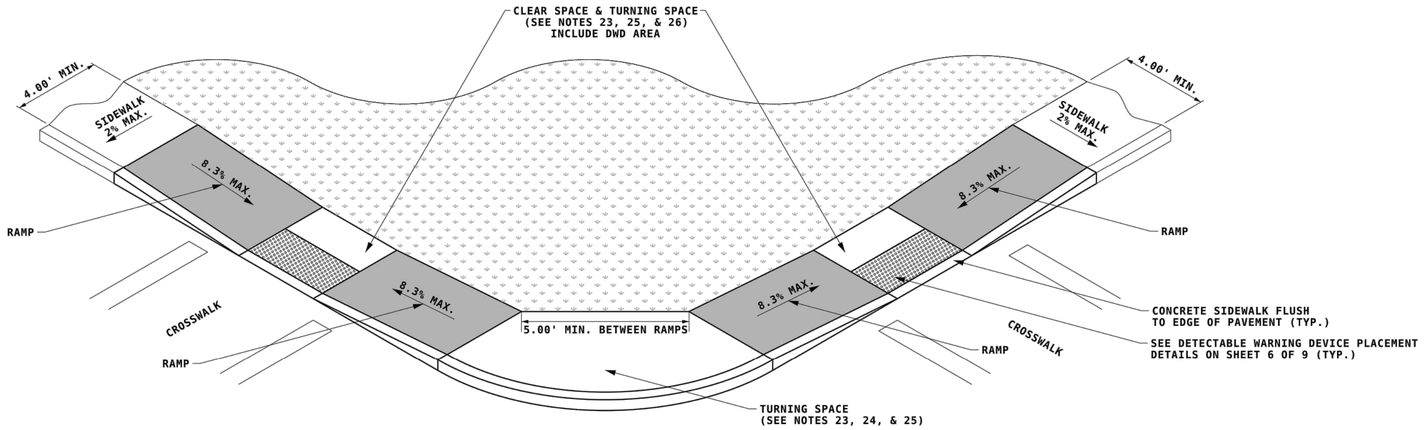

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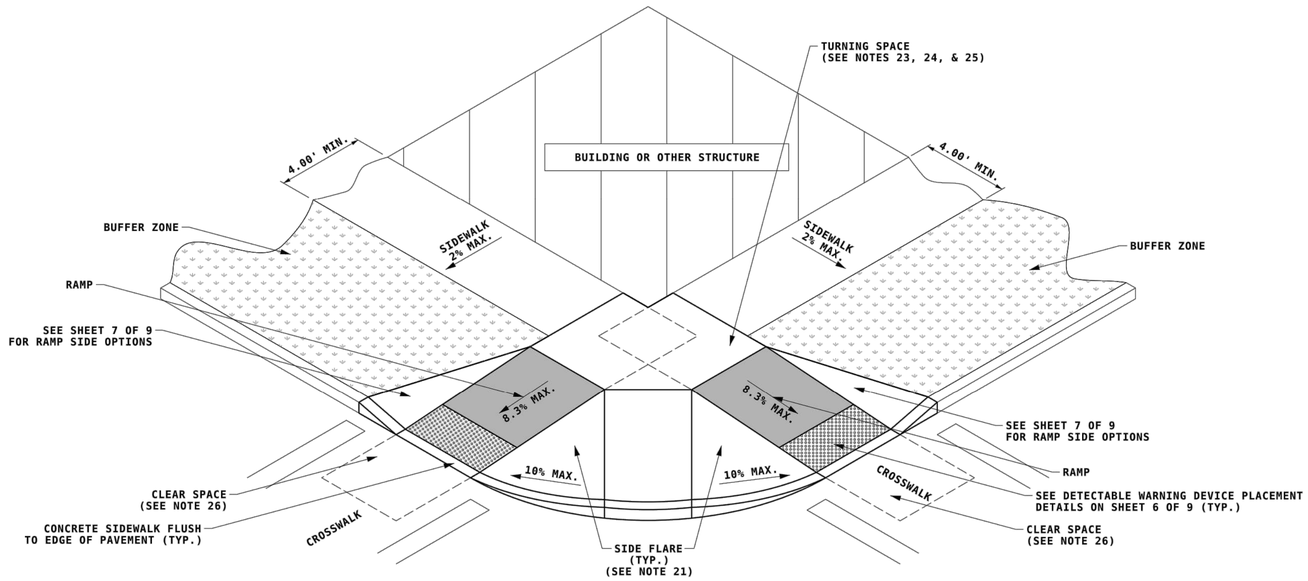

TYPE 7

CURB RAMP CONFIGURATIONS

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Title
SIDEWALK CURB RAMP DETAILS
(SHEET 03 OF 09)

Project No.	Scale
179450806	NTS

Revision	Sheet	Drawing No.
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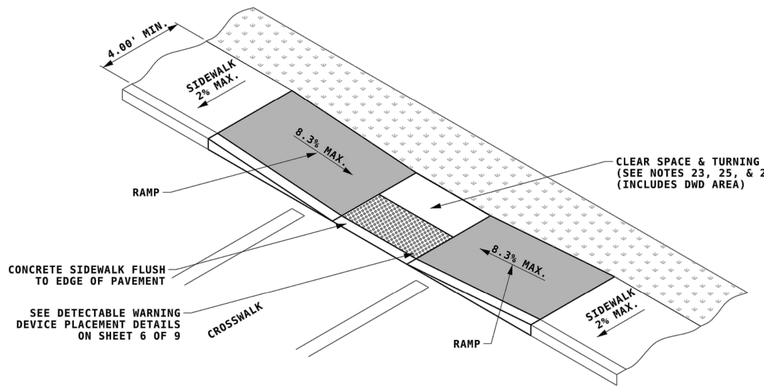

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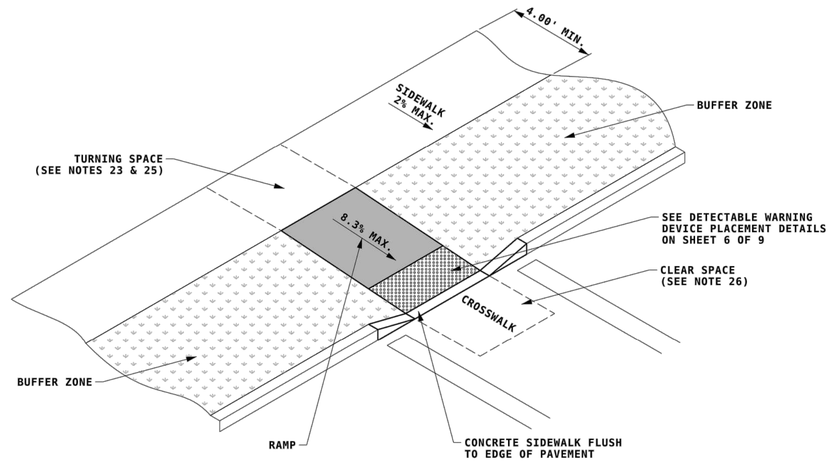

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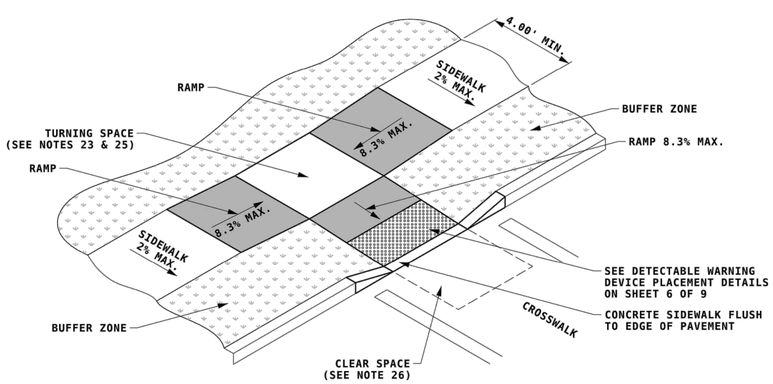

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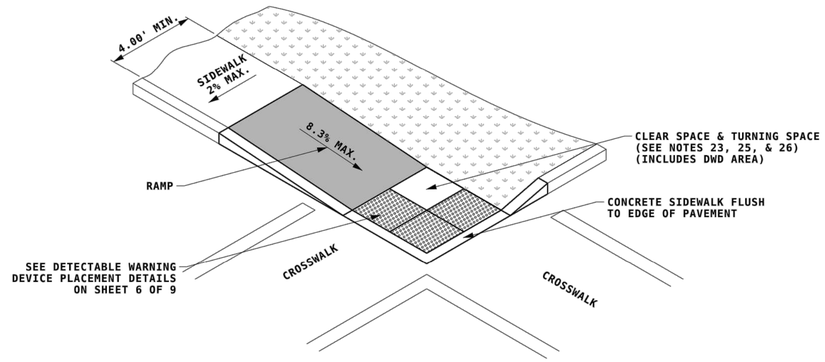

TYPE 11

CURB RAMP CONFIGURATIONS

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Title
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Project No.	Scale
179450806	NTS

Revision	Sheet	Drawing No.
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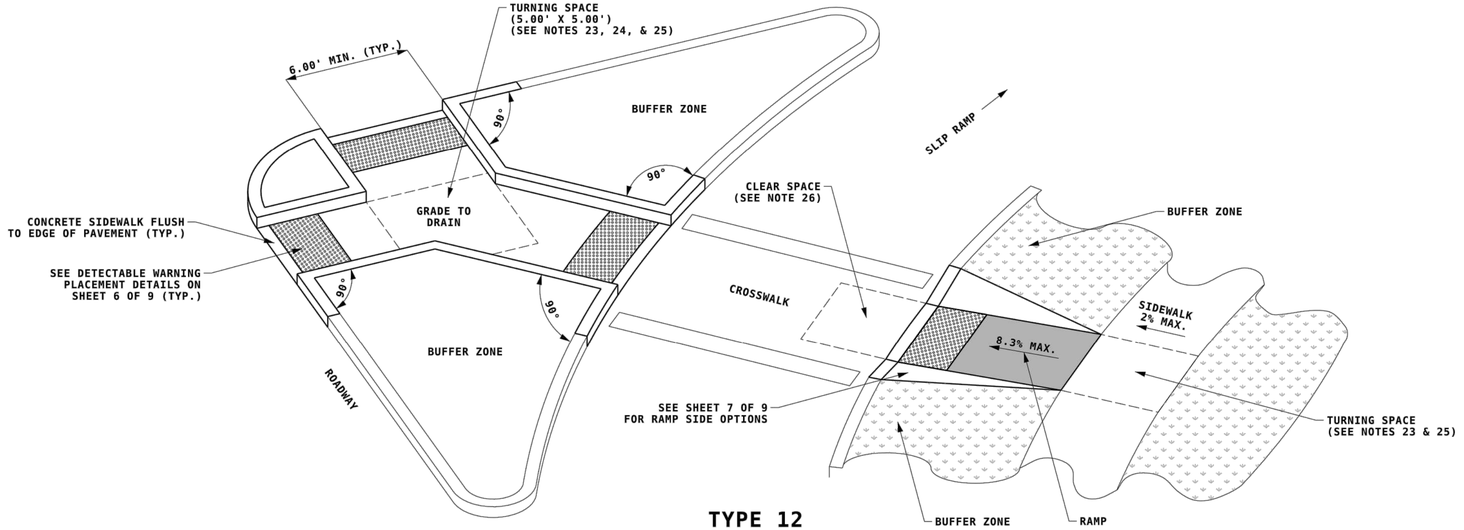

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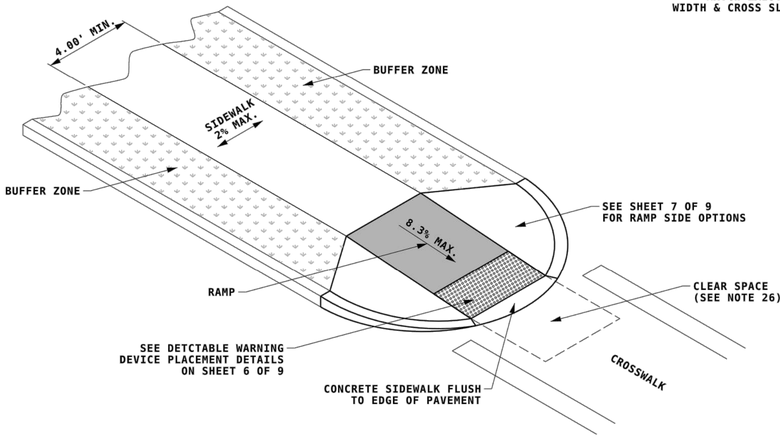

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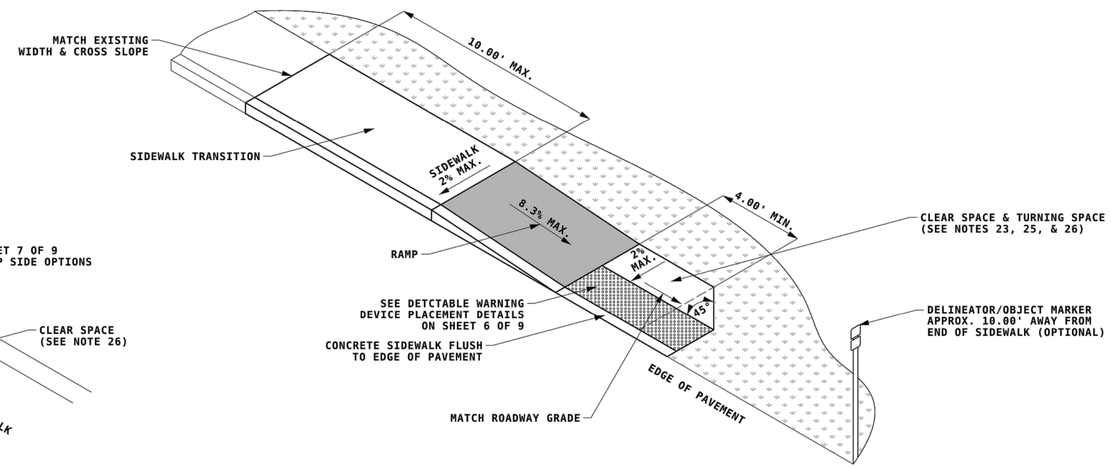
ACCESS ISLAND CURB RAMP



TYPE 14
SIDEWALK TO SHOULDER TRANSITION

CURB RAMP CONFIGURATIONS

NOTE:
ALL NOTES REFERENCED ON THIS SHEET CAN BE FOUND ON SIDEWALK CURB RAMP DETAILS, SHEET 1 OF 9.

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Notes

Revision	By	Appd	YYYY-MM-DD

Issued	By	Appd	YYYY-MM-DD
File Name: 50806_DTL	TJG Dwn.	TJG Dsgn.	DEM Chkd.	2025-01-29 YYYY-MM-DD

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KEENE DOWNTOWN IMPROVEMENTS

KEENE, NEW HAMPSHIRE

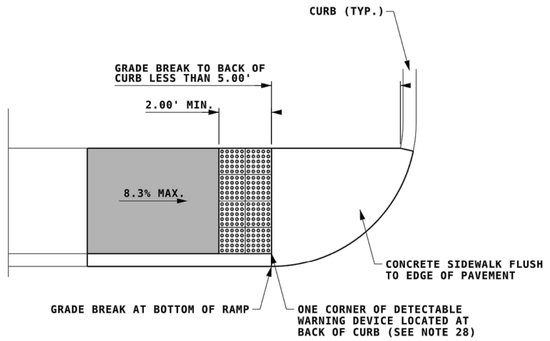
Title
SIDEWALK CURB RAMP DETAILS
(SHEET 05 OF 09)

Project No.	Scale
179450806	NTS

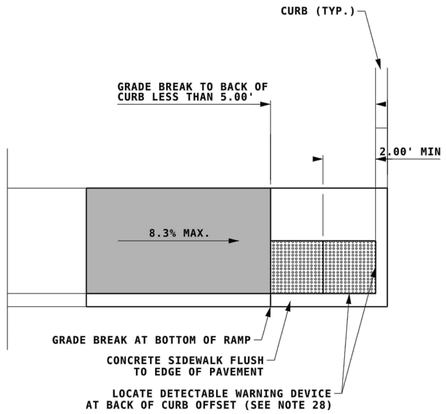
Revision	Sheet	Drawing No.
-	23 of 232	**DTL-09**

ORIGINAL SHEET - ANSI D

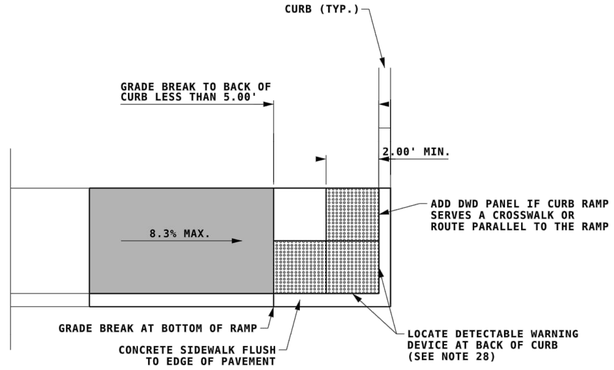
u:\179450806\transportation\drawing\cad\50806_dtl 2025.01.29 2:28:37 PM



OPTION 1

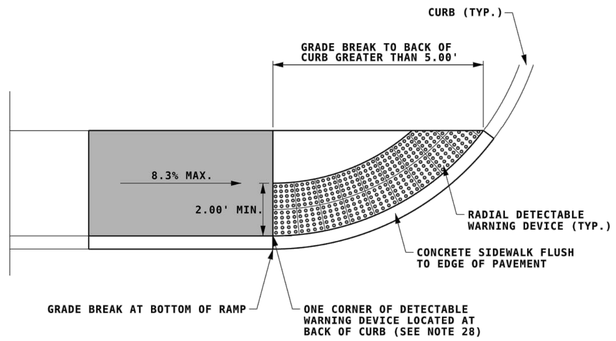


OPTION 2

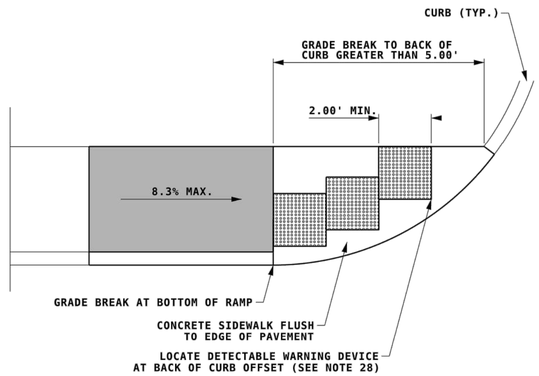


OPTION 2A

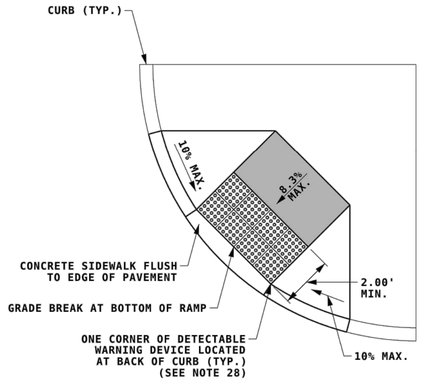
GRADE BREAK TO BACK OF CURB LESS THAN 5.00'



OPTION 3



OPTION 4



OPTION 5

GRADE BREAK TO BACK OF CURB GREATER THAN 5.00'

DETECTABLE WARNING DEVICE (DWD) PLACEMENT OPTION DETAILS

NOTE:
ALL NOTES REFERENCED ON THIS SHEET CAN BE FOUND ON SIDEWALK CURB RAMP DETAILS, SHEET 1 OF 9.

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Issued	By	Appd	YYYY-MM-DD

File Name: 50806_DTL	TJG	TJG	DEM	2025-01-29
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KEENE, NEW HAMPSHIRE

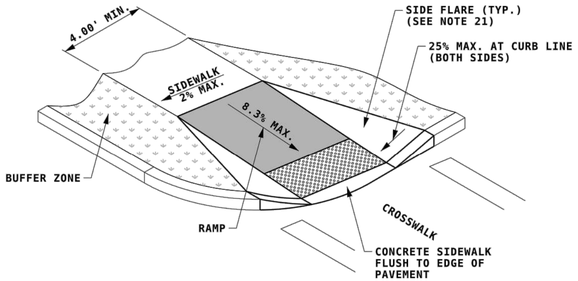
Title
SIDEWALK CURB RAMP DETAILS (SHEET 06 OF 09)

Project No.	Scale
179450806	NTS

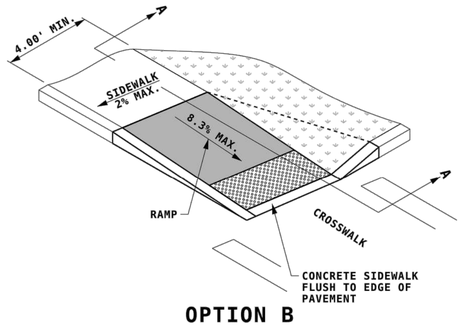
Revision	Sheet	Drawing No.
-	24 of 232	**DTL-10**

c:\179450806\transportation\drawings\cad\50806_dtl 2025-01-29 2:28:58 PM

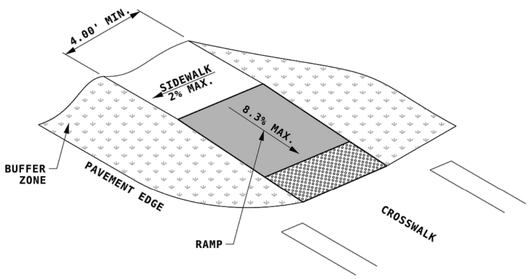
ORIGINAL SHEET - ANSI D



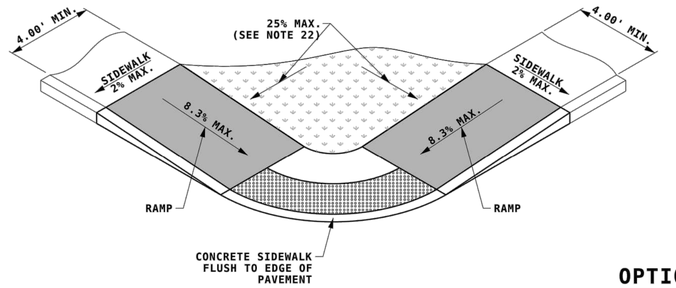
OPTION A
FLARE CONCRETE



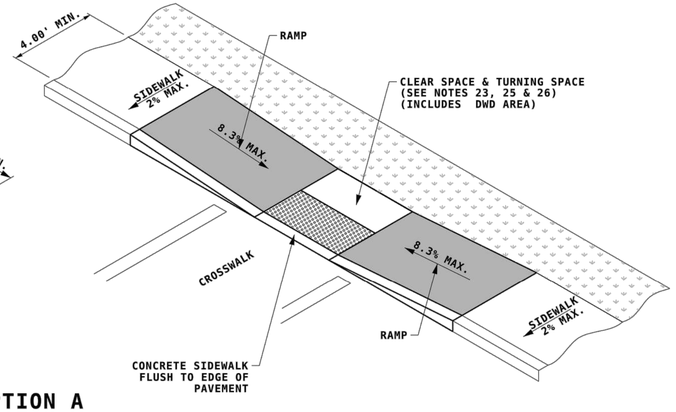
OPTION B
GRADED EARTH

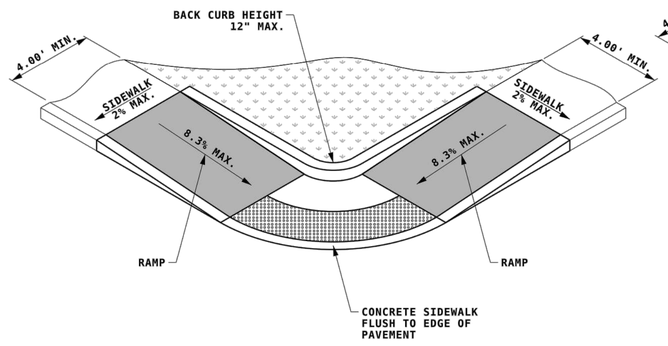


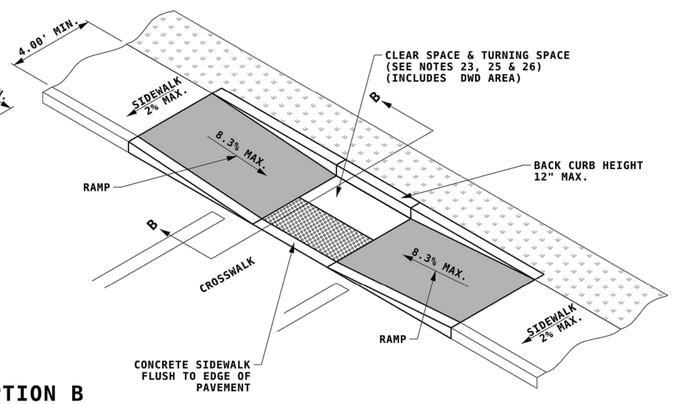
OPTION C
UNCURBED INTERSECTION



OPTION A
GRADED EARTH AND TURF







OPTION B
BACK CURB

RAMP SIDE CONFIGURATIONS

RAMP BACK TREATMENTS

NOTE:
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KEENE, NEW HAMPSHIRE

Title
SIDEWALK CURB RAMP DETAILS (SHEET 07 OF 09)

Project No.	Scale
179450806	NTS

Revision	Sheet	Drawing No.
-	25 of 232	**DTL-11**

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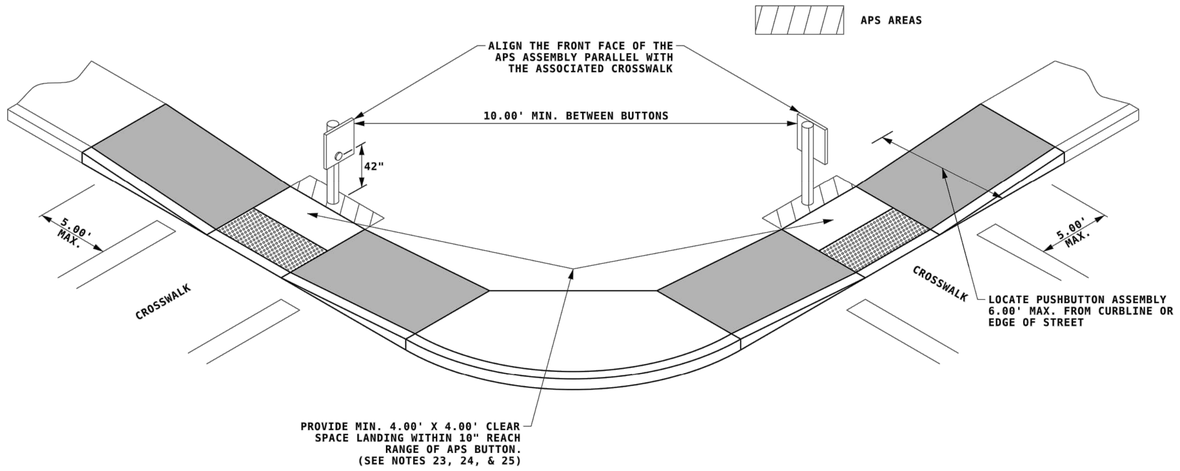
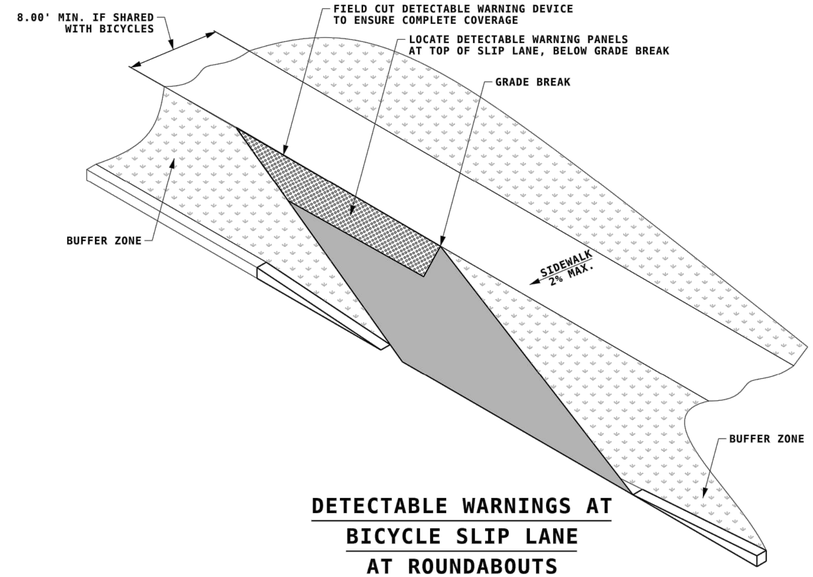
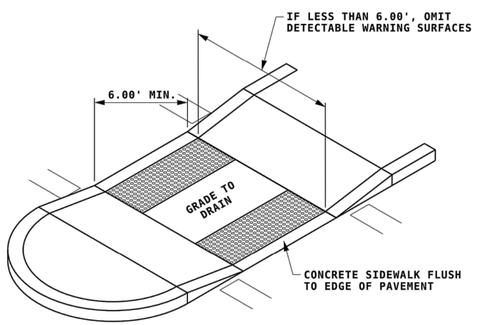
2025.01.29 2:29:50 PM
ORIGINAL SHEET - ANSI D



ACCESSIBLE PEDESTRIAN SIGNAL (APS) PUSHBUTTON LOCATION

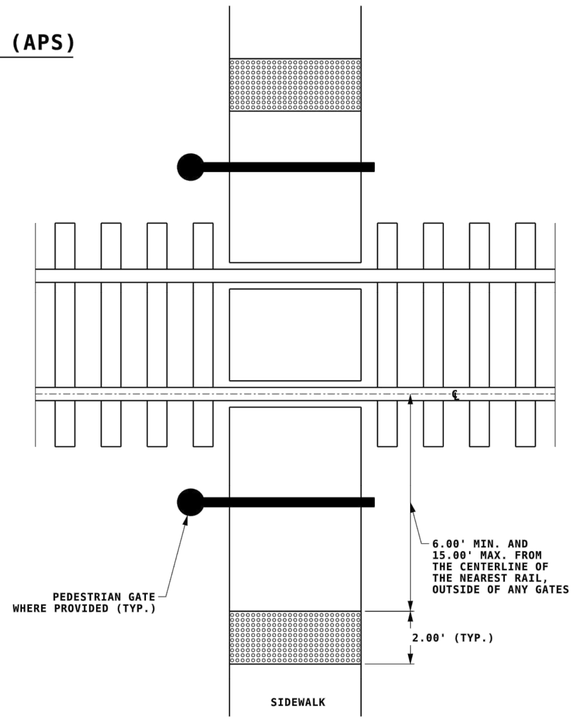


DETECTABLE WARNINGS AT BICYCLE SLIP LANE AT ROUNDABOUTS

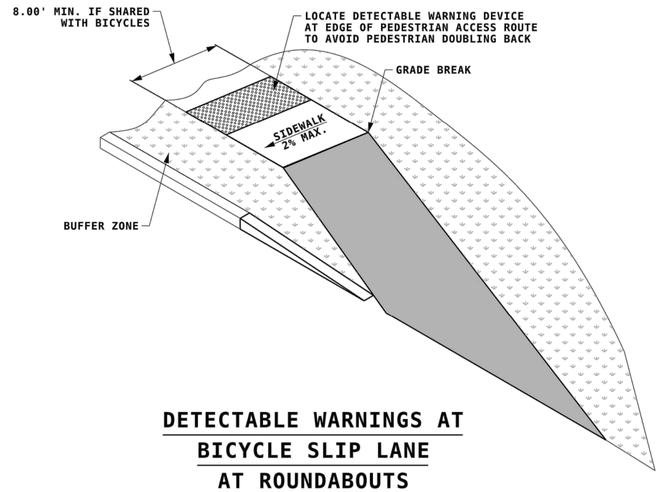


DETECTABLE WARNINGS AT PEDESTRIAN REFUGE ISLANDS

NON-ELEVATED CROSSING



DETECTABLE WARNINGS AT RAILROAD CROSSING



DETECTABLE WARNINGS AT BICYCLE SLIP LANE AT ROUNDABOUTS

NOTE:
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	Dwn.	Dsgn.	Chkd.	YYYY-MM-DD

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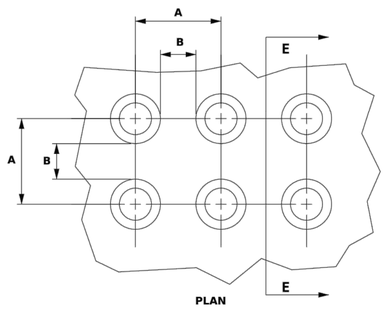
Title
SIDEWALK CURB RAMP DETAILS (SHEET 08 OF 09)

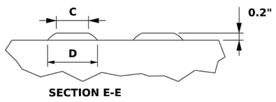
Project No.	Scale
179450806	NTS

Revision	Sheet	Drawing No.
-	26 of 232	DTL-12

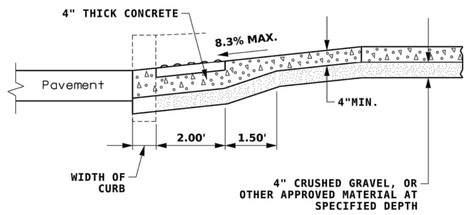
ORIGINAL SHEET - ANSI D



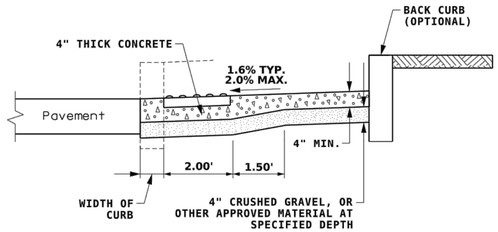
TRUNCATED DOME DIMENSIONS		
DIM.	MIN. (IN)	MAX. (IN)
A	1.6"	2.4"
B	0.65"	1.5"
C	50% - 65% OF D DIM.	
D	0.9"	1.4"



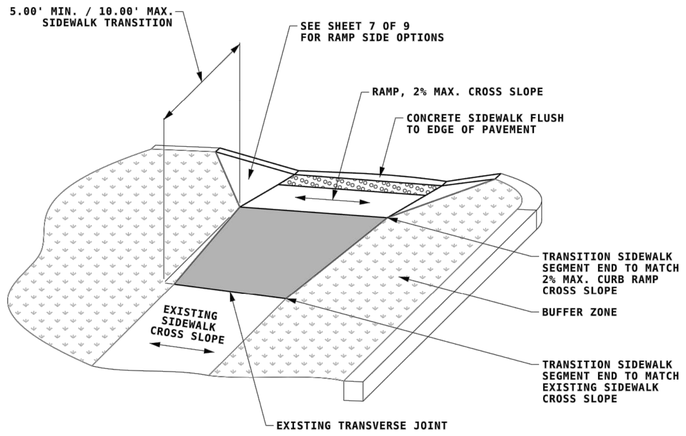
DETECTABLE WARNING DEVICES (DWD)
TRUNCATED DOME DETAILS



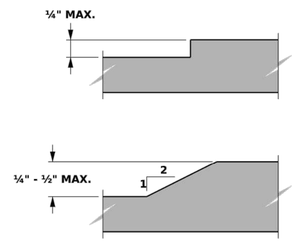
SECTION A-A
SEE SHEET 7 OF 9



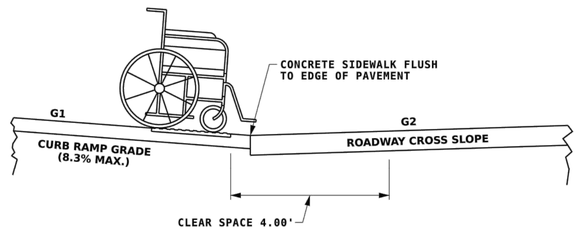
SECTION B-B
SEE SHEET 7 OF 9



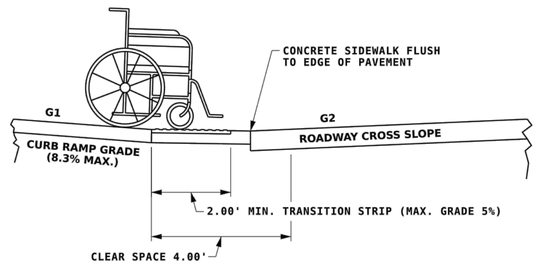
TRANSITION BETWEEN CURB RAMP AND EXISTING SIDEWALK
USE FOR CROSS SLOPE AND WIDTH TRANSITIONS



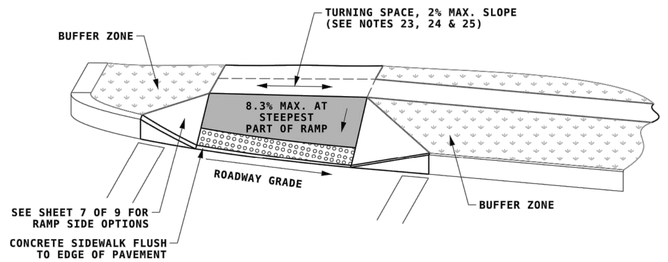
VERTICAL SURFACE DISCONTINUITIES
SEE NOTE 5



COUNTER SLOPE CONDITION 1
A = G2 - G1
ALGEBRAIC DIFFERENCE (A) BETWEEN ROADWAY CROSS SLOPE AND CURB RAMP GRADE IS LESS THAN 13.3%.



COUNTER SLOPE CONDITION 2
A = G2 - G1
ALGEBRAIC DIFFERENCE (A) BETWEEN ROADWAY SLOPE AND CURB RAMP GRADE IS GREATER THAN 13.3%. TRANSITIION STRIP REQUIRED (MAX. GRADE 5%)



CURB RAMP CROSS SLOPE TRANSITION
REFER TO NOTE 20 FOR CROSS SLOPE REQUIREMENTS

NOTE:
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KEENE, NEW HAMPSHIRE

Title
SIDEWALK CURB RAMP DETAILS (SHEET 09 OF 09)

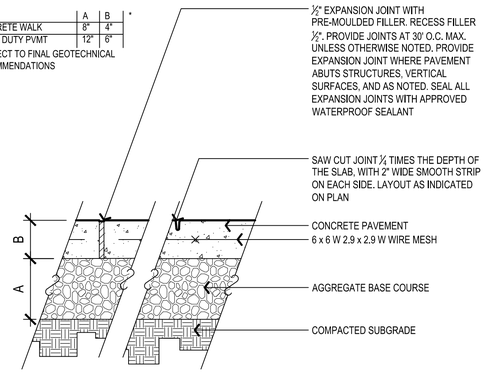
Project No.	Scale
179450806	NTS

Revision	Sheet	Drawing No.
-	27 of 232	DTL-13

ORIGINAL SHEET - ANSI D

	A	B	*
CONCRETE WALK	8"	4"	
HEAVY DUTY PVMT	12"	6"	

*SUBJECT TO FINAL GEOTECHNICAL RECOMMENDATIONS



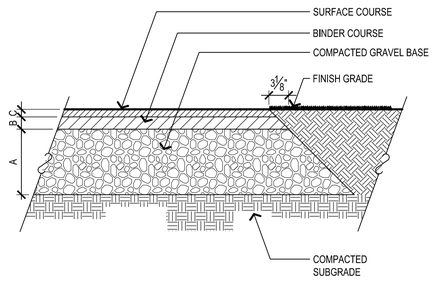
NOTE:

1. PROVIDE LIGHT BROOM FINISH PERPENDICULAR TO THE TRAFFIC FLOW UNLESS OTHERWISE NOTED.

1 CEMENT CONCRETE PAVEMENT

1 1/2" = 1'-0" BC1794-50806-36

	A	B	C
BIT. CONCRETE WALK	6"	1 ½"	1"
BIT. CONCRETE ROAD	12"	2"	1"

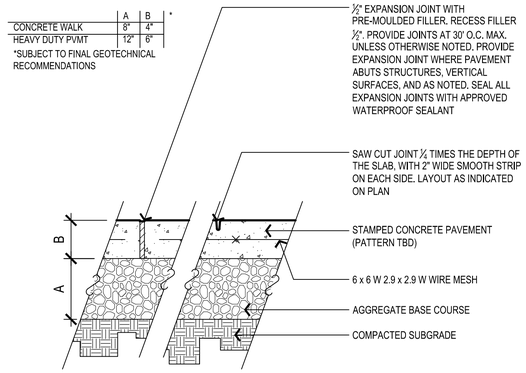


2 BITUMINOUS CONCRETE PAVING

1" = 1'-0" BC1794-50806-03

	A	B	*
CONCRETE WALK	8"	4"	
HEAVY DUTY PVMT	12"	6"	

*SUBJECT TO FINAL GEOTECHNICAL RECOMMENDATIONS

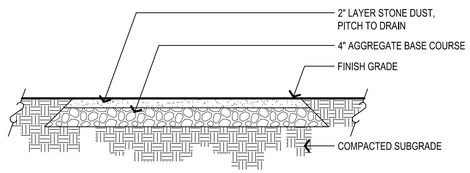


NOTE:

1. PROVIDE LIGHT BROOM FINISH PERPENDICULAR TO THE TRAFFIC FLOW UNLESS OTHERWISE NOTED.

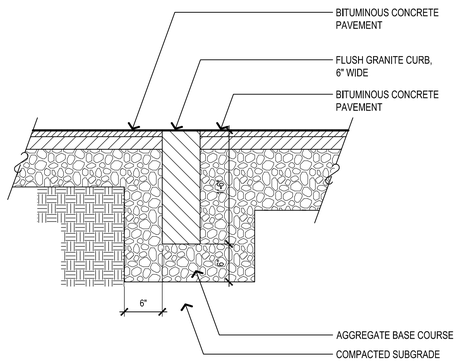
3 STAMPED CONCRETE PAVEMENT

1 1/2" = 1'-0" BC1794-50806-35



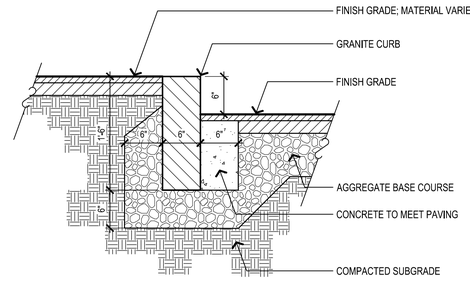
4 STONE DUST PAVING

3/4" = 1'-0" BC1794-50806-31



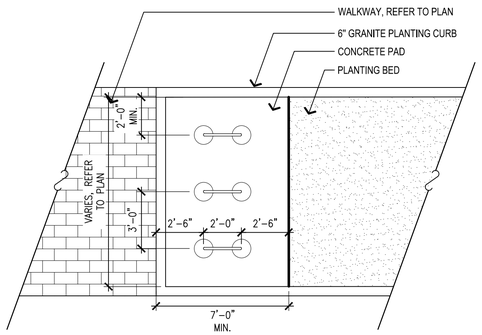
5 FLUSH GRANITE CURB

1" = 1'-0" BC1794-50806-04



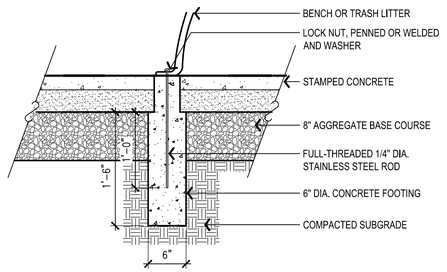
6 VERTICAL GRANITE CURB

1" = 1'-0" BC1794-50806-22



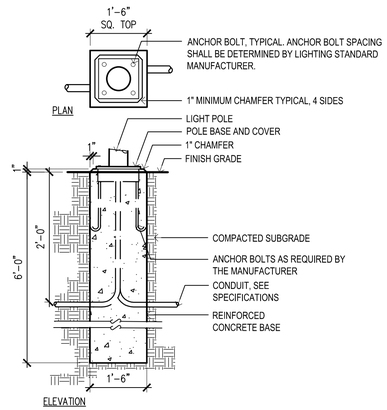
7 BICYCLE RACK CONCRETE PAD LAYOUT

1/4" = 1'-0" BC1794-50806-15



8 SITE FURNISHING AT GRADE FOOTING

1" = 1'-0" BC1794-50806-37



9 PRECAST LIGHT POLE FLUSH BASE

1/2" = 1'-0" BC1794-50806-27

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Notes

Revision	By	Appd	YYYY-MM-DD

Issued	By	Appd	YYYY-MM-DD

File Name: 50806_LA DETAILS	XXX	TJG	DEM	----
	Dwn.	Dsgn.	Chkd.	YYYY-MM-DD

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Client/Project
CITY OF KEENE

KEENE DOWNTOWN IMPROVEMENTS

KEENE, NEW HAMPSHIRE

Title
LANDSCAPING SITE DETAILS (SHEET 01 OF 04)

Project No.	Scale
179450806	1"=20'

Revision	Sheet	Drawing No.
0	28 of 232	DTL-14

\\1794508806\transportation\drawing\cad\05-landscape\50806_la-details

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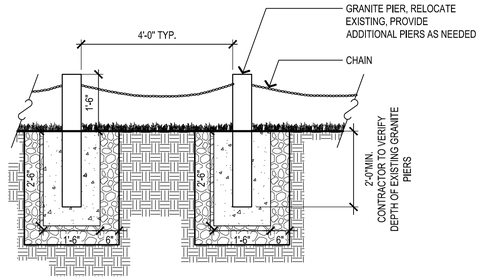
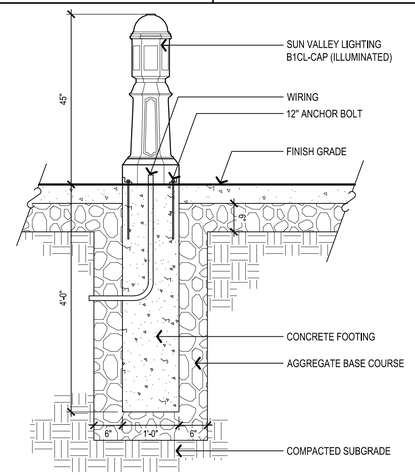


1 GRANITE PIER AND CHAIN

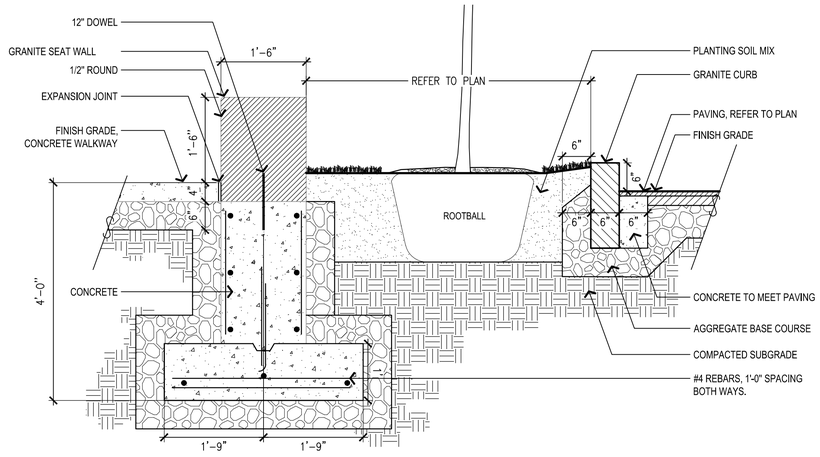
1/2" = 1'-0"

BC1794-50806-24



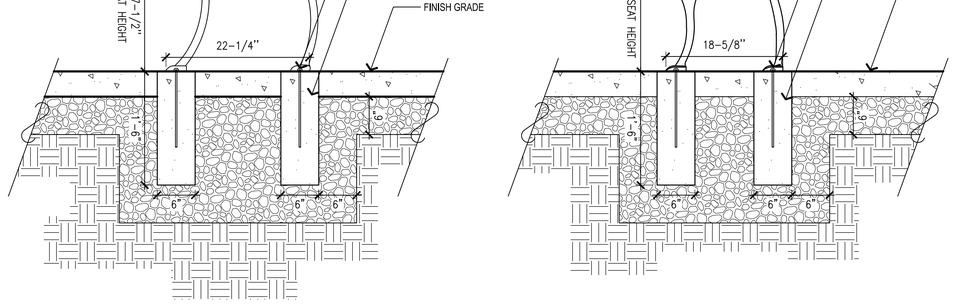
2 BOLLARD LIGHT

3/4" = 1'-0"



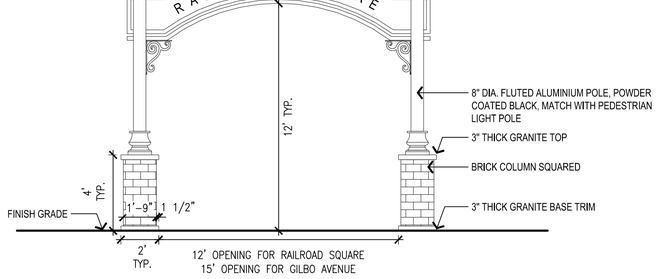
3 PLANTING BEDS WITH GRANITE BENCH AND GRANITE CURB

3/4" = 1'-0"



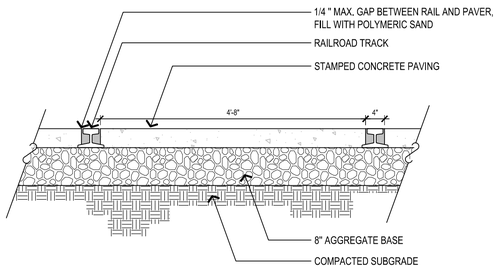
4 BENCH WITH / WITHOUT BACK REST

1" = 1'-0"



5 GATEWAY ARCH

1/4" = 1'-0"



6 RAILROAD TRACKS

3/4" = 1'-0"

DETAIL-FILE

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Issued	By	Appd	YYYY-MM-DD
File Name: 50806_LA DETAILS	XXX Dwn.	TJG Dsgn.	DEM Chkd.	---- YYYY-MM-DD

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KEENE, NEW HAMPSHIRE

Title
LANDSCAPING SITE DETAILS (SHEET 02 OF 04)

Project No.	Scale
179450806	1"=20'

Revision	Sheet	Drawing No.
0	29 of 232	DTL-15

\\1794508\Workspace\Section\Drawing\Cad\05.bim.docspan\50806_LA details

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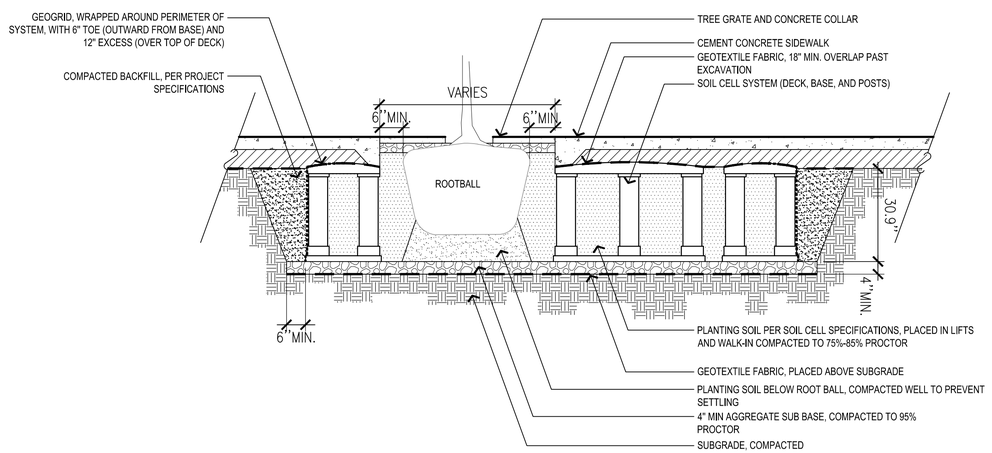
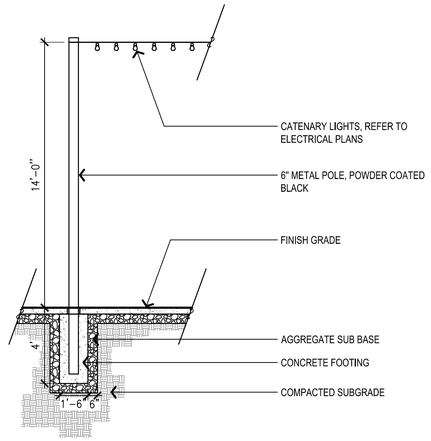


1 SOIL CELL SYSTEM WITH TREE GRATE

1/2" = 1'-0"



2 POLE MOUNTED CATENARY LIGHTS

1/4" = 1'-0"

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File Name: 50806_LA DETAILS	XXX Dwn.	TJG Dsgn.	DEM Chkd.	---- YYYY-MM-DD

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Title
LANDSCAPING SITE DETAILS (SHEET 03 OF 04)

Project No.	Scale
179450806	1"=20'

Revision	Sheet	Drawing No.
0	30 of 232	DTL-16

u:\179450806\transportation\drawing\cad\03 landscape\50806_la details

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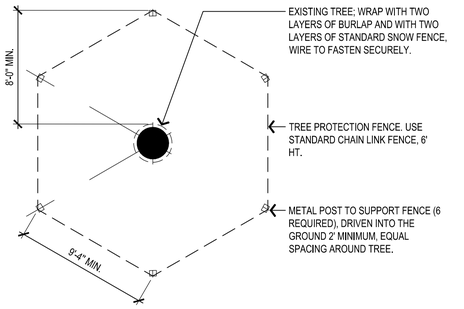
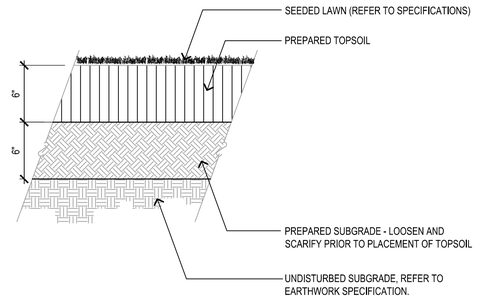


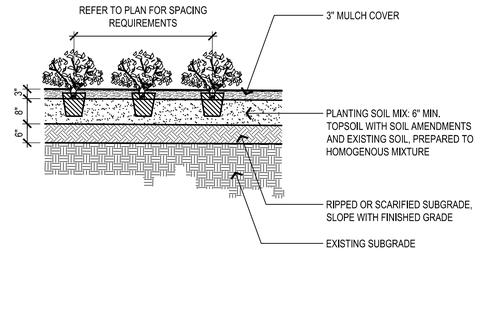
1 EXISTING TREE PROTECTION

3/16" = 1'-0" BC1794-50806-38



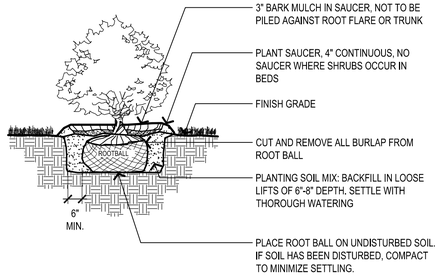
2 LOAM AND SEED

1 1/2" = 1'-0" BC1794-50806-11



3 GROUND COVER PLANTING

1/2" = 1'-0" BC1794-50806-41

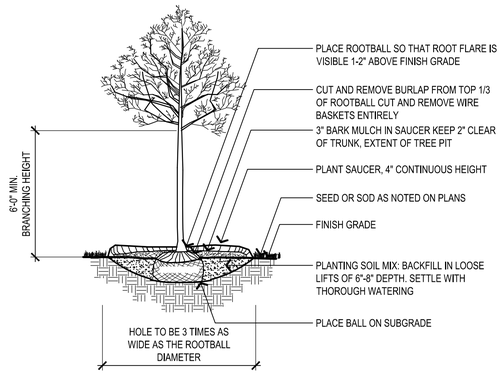


NOTES:

1. SHRUB SHALL BEAR SAME RELATIONSHIP TO FINISHED GRADE AS IT BORE TO NURSERY OR FIELD GRADE.
2. WHERE SHRUBS OCCUR IN GROUPINGS IN PLANT BEDS, PROVIDE 2 - FOOT DEEP CONTINUOUS LOAM BED.

4 SHRUB PLANTING

3/8" = 1'-0" BC1794-50806-40

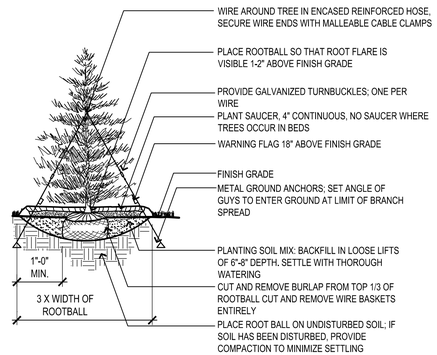


NOTE:

1. TREE SHALL BEAR SAME RELATIONSHIP TO FINISHED GRADE AS IT BORE TO NURSERY OR FIELD GRADE

5 DECIDUOUS TREE PLANTING

1/4" = 1'-0" BC1794-50806-12

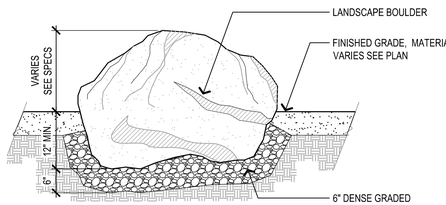


NOTE:

1. TREE SHALL BEAR SAME RELATIONSHIP TO FINISHED GRADE AS IT BORE TO NURSERY OR FIELD GRADE .
2. INSTALL THREE GUYS PER TREE; EQUALLY SPACED AROUND BALL. ATTACH GUYS AT 2/3 HEIGHT OF TREE; USE DOUBLE STRAND GALVANIZED STEEL WIRE.
3. ROOT FLARE SHALL BE VISIBLE 1-2" ABOVE FINISH GRADE.

6 EVERGREEN TREE PLANTING

1/8" = 1'-0" BC1794-50806-06

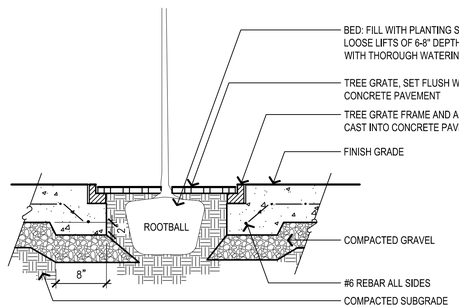


NOTES:

1. PLACEMENT OF BOULDERS TO BE REVIEWED IN FIELD BY LANDSCAPE ARCHITECT
2. BOULDERS SHALL BE STABLE, FREE OF MAJOR CRACKS, OF A NATIVE VARIETY AND SOURCED LOCALLY. SLIGHT COLOR VARIATION IS ACCEPTABLE. TEXTURE SHALL BE CONSISTENT.
3. BOULDERS SHALL BE CHOSEN BY LANDSCAPE ARCHITECT FROM SURPLUS OF AVAILABLE BOULDERS AT SUPPLIER.
4. INSTALLER TO MOVE AND PLACE BOULDERS USING EQUIPMENT THAT WILL NOT HARM OR SCRATCH THE BOULDER SURFACE
5. BOULDERS SHALL APPROXIMATE SIZES SHOWN ON PLAN, RANGING BETWEEN 4 AND 12 CUBIC FEET PER STONE

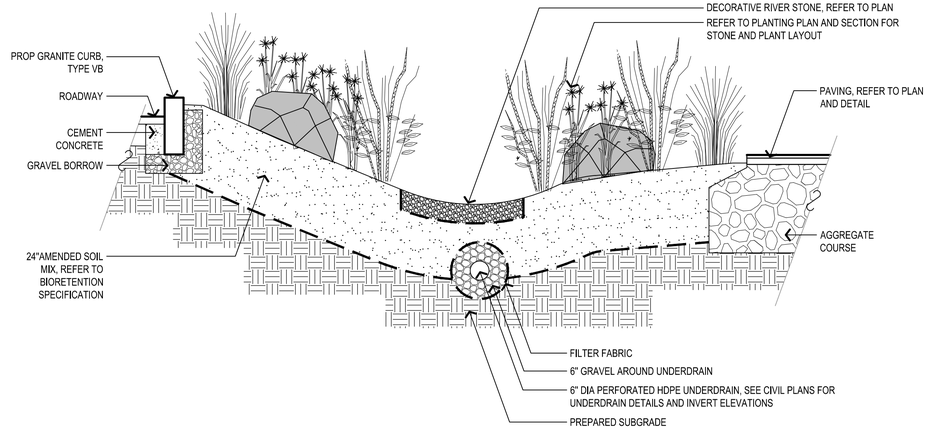
7 LANDSCAPE BOULDER

3/4" = 1'-0" BC1794-50806-42



8 TREE GRATE

1" = 1'-0" BC1794-50806-39



9 BIORETENTION BASIN

1/2" = 1'-0"

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KEENE, NEW HAMPSHIRE

Title
LANDSCAPING SITE DETAILS (SHEET 04 OF 04)

Project No. 179450806

Scale 1"=20'

Revision 0

Sheet 31 of 232

Drawing No. **DTL-17**

\\179450806\transportation\drawing_cad\05 landscape\50806_la details

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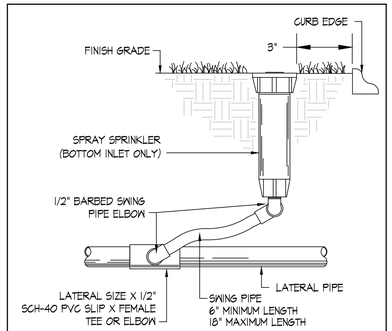
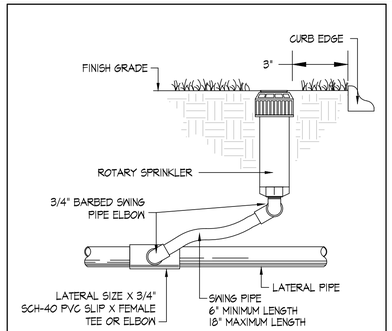
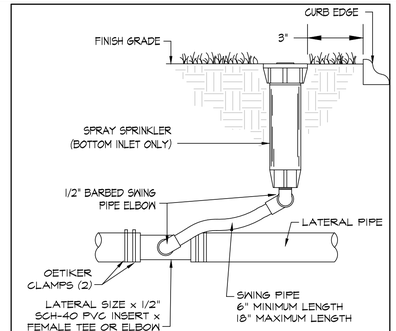


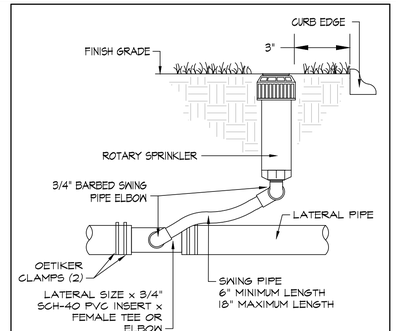
1 SPRAY SPRINKLER DETAIL
NO SCALE



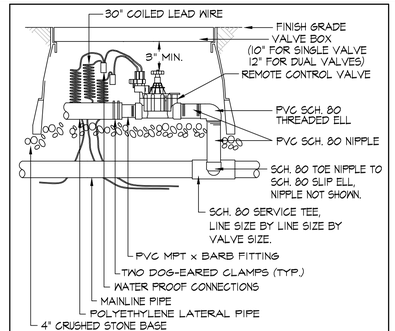
2 ROTARY SPRINKLER DETAIL
NO SCALE



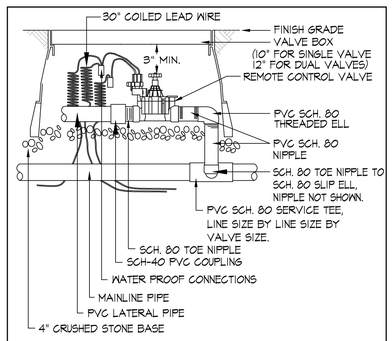
3 SPRAY SPRINKLER DETAIL (WITH POLYETHYLENE LATERAL LINE)
NO SCALE



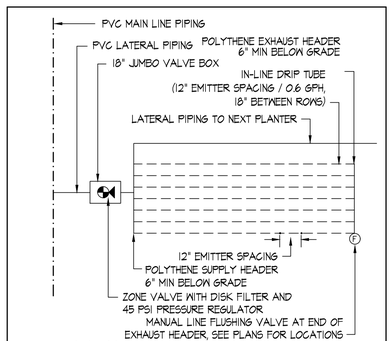
4 ROTARY SPRINKLER DETAIL (WITH POLYETHYLENE LATERAL LINE)
NO SCALE



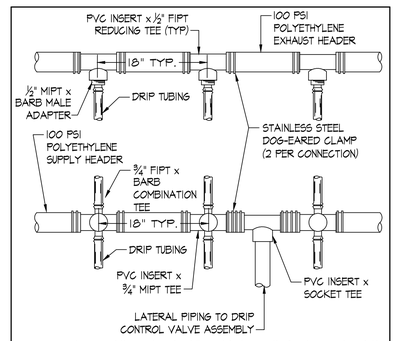
5 24 VOLT ELECTRIC VALVE DETAIL (WITH POLYETHYLENE LATERAL LINE)
NO SCALE



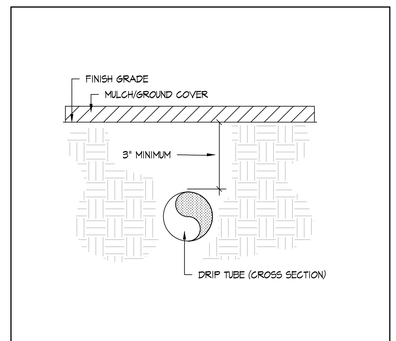
6 24 VOLT ELECTRIC VALVE DETAIL
NO SCALE



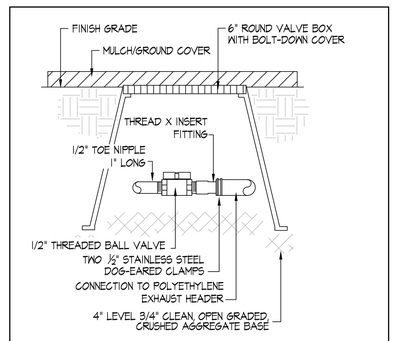
7 TYPICAL DRIP ZONE DETAIL
NO SCALE LANDSCAPE BEDS



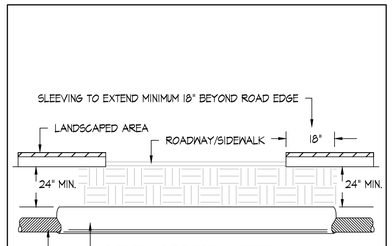
8 DRIP ZONE SUPPLY/EXHAUST HEADER DETAIL
NO SCALE



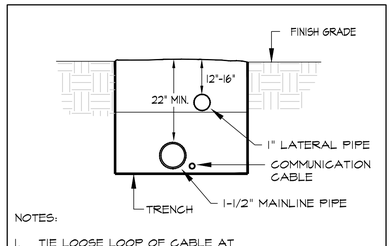
9 IN-LINE DRIP TUBE CROSS SECTION DETAIL
NO SCALE



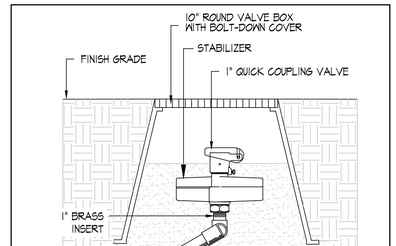
10 MANUAL FLUSHING VALVE DETAIL
NO SCALE LANDSCAPE BEDS



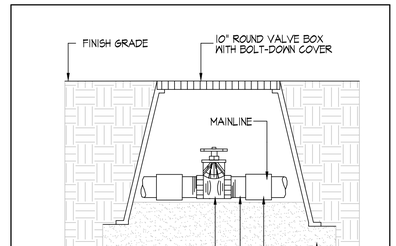
11 PIPE AND WIRE SLEEVE DETAIL
NO SCALE



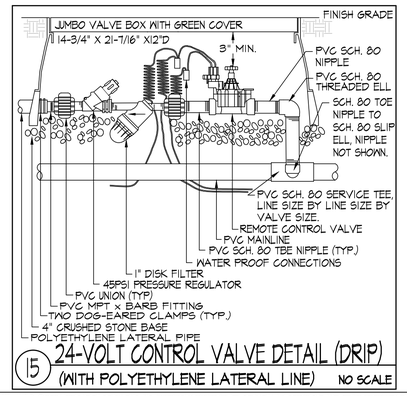
12 TRENCH AND WIRE DETAIL
NO SCALE



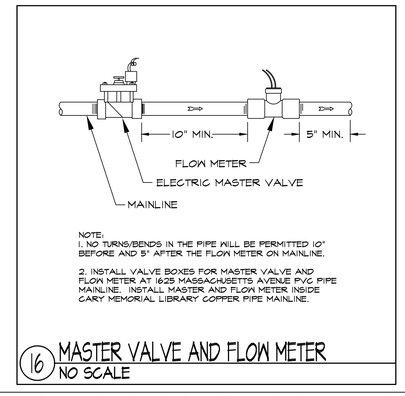
13 QUICK COUPLING VALVE DETAIL
NO SCALE



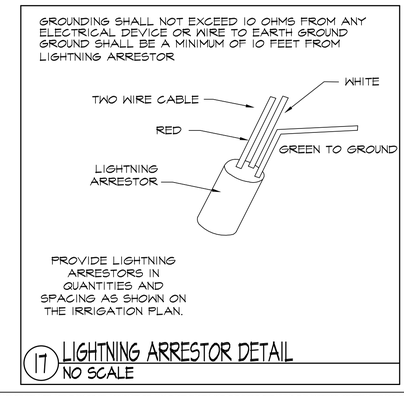
14 ISOLATION GATE VALVE DETAIL
NO SCALE (1-1/2" IN SIZE)



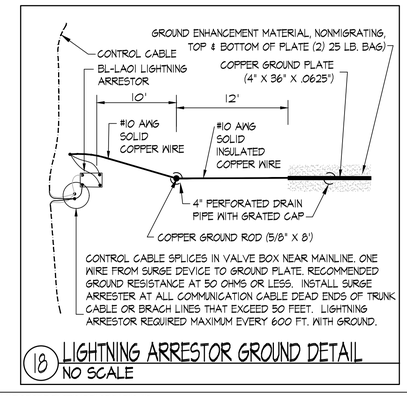
15 24-VOLT CONTROL VALVE DETAIL (DRIP)
(WITH POLYETHYLENE LATERAL LINE) NO SCALE



16 MASTER VALVE AND FLOW METER
NO SCALE



17 LIGHTNING ARRESTOR DETAIL
NO SCALE



18 LIGHTNING ARRESTOR GROUND DETAIL
NO SCALE

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Revision | By | Appd | YYYY-MM-DD

Issued | By | Appd | YYYY-MM-DD

File Name: S0806_IRRIGATION DETAILS | JGD Dwn. | JGD Dsgn. | JRB Chkd. | 2024.12.16 YYYY-MM-DD

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KEENE DOWNTOWN IMPROVEMENTS

KEENE, NEW HAMPSHIRE

Title
IRRIGATION DETAILS - 1

Project No. 179450806 | Scale N.T.S

Revision 0 | Sheet ## of ## | Drawing No. **IRR-34**

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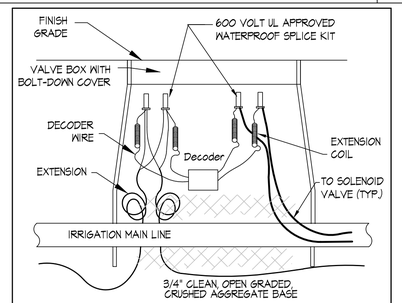
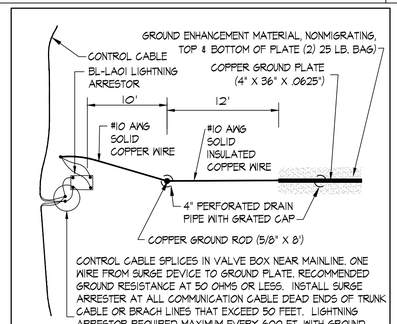
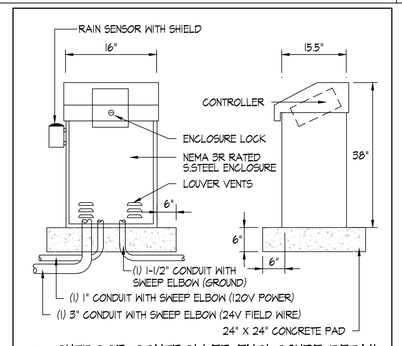


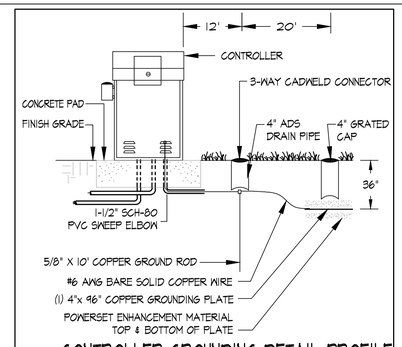
1 DECODER IN VALVE BOX DETAIL
NO SCALE



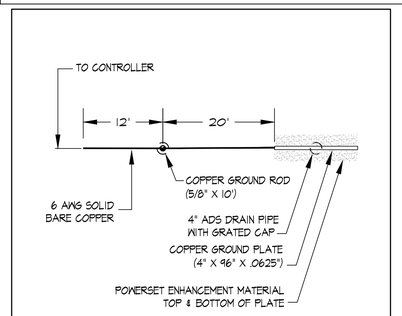
2 LIGHTNING ARRESTOR GROUND DETAIL
NO SCALE



3 OUTDOOR CONTROLLER ENCLOSURE DETAIL
NO SCALE



4 CONTROLLER GROUNDING DETAIL-PROFILE
NO SCALE



5 CONTROLLER GROUNDING DETAIL-PLAN
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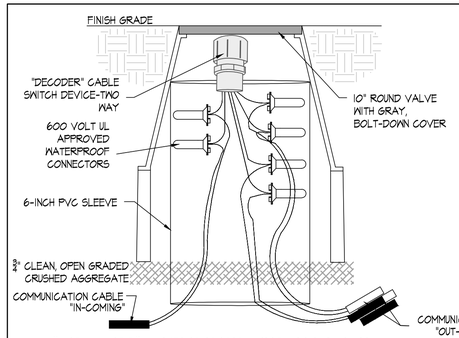
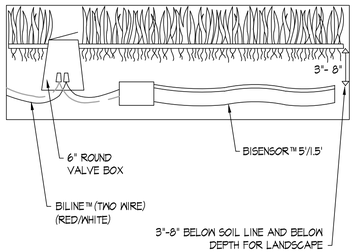


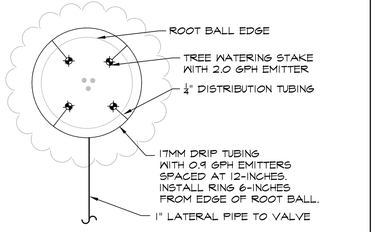
NOTE: CABLE FUSED DEVICE SHALL BE AVAILABLE IN A 2-WAY OR 3-WAY CONFIGURATION (INSTALLATION FOR TWO WAY SHOWN). DEVICE SHALL BE INSTALLED AT ALL TWO OR THREE WAY WIRE BRANCH JUNCTIONS. DEVICE MAY BE INSTALLED ON ALL LONG WIRE RUNS TO BREAK CIRCUIT IN HALF. ALL WIRES SHALL BE INSTALLED IN 600 VOLT UL APPROVED SPLICE KITS. INSIDE 10-INCH VALVE BOXES. SUFFICIENT SLACK, MINIMUM OF 48 INCHES, SHOULD BE ALLOWED TO BRING SPLICES ABOVE GRADE. CABLES SHOULD BE CLEARLY MARKED INCOMING FROM WHERE AND OUTGOING TO WHERE. CLEARLY MARK THE MILLIAMP DRAW FOR EACH LEG OF CABLE BASED ON THE NUMBER OF DEVICES DOWNSTREAM FROM THE FUSED POSITION. FUSES ARE LOCATED BENEATH DEVICE'S THREADED CAP. FUSES MAY BE PULLED OUT TO ISOLATE BRANCHES AND SECTIONS OF THE COMMUNICATION CABLE.

6 "DECODER" CABLE FUSED INSTALLATION
NO SCALE



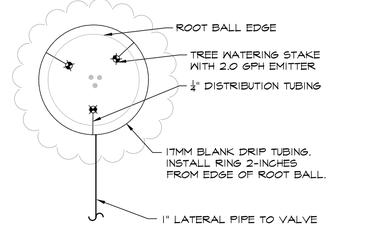
7 BISENSOR DETAIL
NO SCALE

NOTE:
TREE WATERING STAKES SHALL BE DRIVEN INTO THE ROOT BALL WITH ONLY THE CAP ABOVE GRADE.
½" DISTRIBUTION TUBING SHALL BE CONNECTED TO 17MM DRIP TUBING. ½" TUBING SHALL BE INSTALLED BELOW GRADE AND INSERTED INTO THE TREE STAKE INLET. ALL TREES SHALL RECEIVE 2.0 GPH EMITTERS. TREE STAKES TO BE INSTALLED HALFWAY BETWEEN TREE TRUNK AND EDGE OF ROOTBALL.

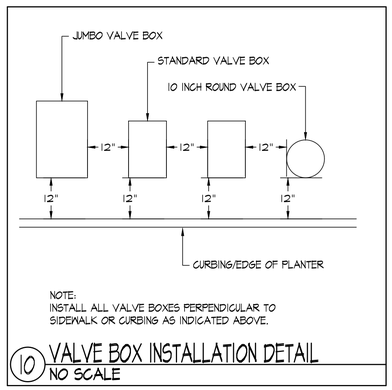


8 TREE WATERING STAKE- PLAN VIEW
NO SCALE PROPOSED SIDEWALK TREES

NOTE:
TREE WATERING STAKES SHALL BE DRIVEN INTO THE ROOT BALL WITH ONLY THE CAP ABOVE GRADE.
½" DISTRIBUTION TUBING SHALL BE CONNECTED TO 17MM DRIP TUBING. ½" TUBING SHALL BE INSTALLED BELOW GRADE AND INSERTED INTO THE TREE STAKE INLET. ALL TREES SHALL RECEIVE 2.0 GPH EMITTERS. TREE STAKES TO BE INSTALLED HALFWAY BETWEEN TREE TRUNK AND EDGE OF ROOTBALL.



9 TREE WATERING STAKE- PLAN VIEW
NO SCALE TREES IN LANDSCAPE



NOTE:
INSTALL ALL VALVE BOXES PERPENDICULAR TO SIDEWALK OR CURBING AS INDICATED ABOVE.

10 VALVE BOX INSTALLATION DETAIL
NO SCALE

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Issued	By	Appd	YYYY-MM-DD
File Name: S0806_IRRIGATION DETAILS	JGD Dwn.	JGD Dsgn.	JRB Chkd.	2024.12.16 YYYY-MM-DD

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Title
IRRIGATION DETAILS - 2

Project No.	Scale
179450806	N.T.S

Revision	Sheet	Drawing No.
0	## of ##	IRR-35

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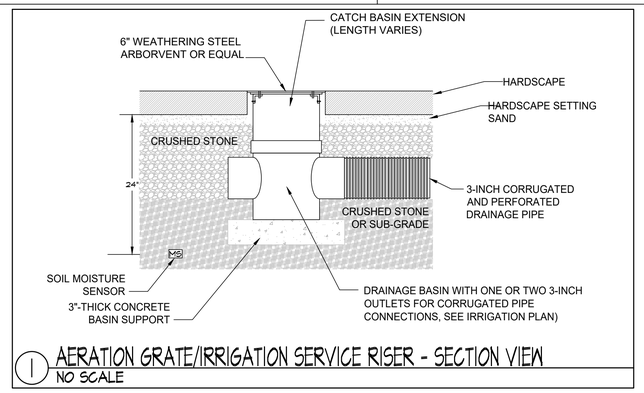
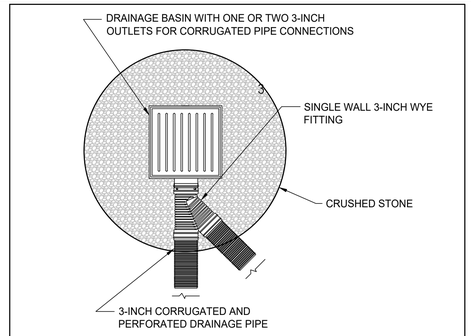
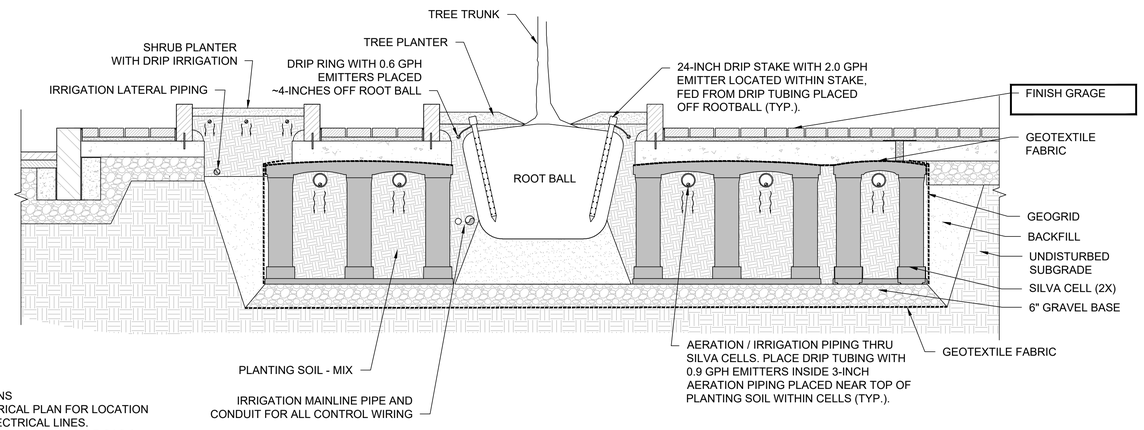


1 AERATION GRATE/IRRIGATION SERVICE RISER - SECTION VIEW
NO SCALE



2 DRAINAGE BASIN WITH WYE FITTING - PLAN VIEW
NO SCALE



NOTES:
1. SEE LANDSCAPE PLANS
2. SEE LIGHTING/ELECTRICAL PLAN FOR LOCATION OF STREET LIGHT ELECTRICAL LINES.
3. SEE UTILITY PLANS FOR LOCATIONS OF GAS & ELECTRIC LINES.

3 STREET TREE IRRIGATION DETAIL WITH SILVA CELL - SECTION VIEW
NO SCALE

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File Name: 50806_IRRIGATION DETAILS_2 — JGD Dwn. — JGD Dsgn. — JRB Chkd. — 2024.12.16 YYYY-MM-DD

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Title
IRRIGATION DETAILS - 3

Project No.
179450806

Scale
N.T.S

Revision
0

Sheet
of

Drawing No.
IRR-36

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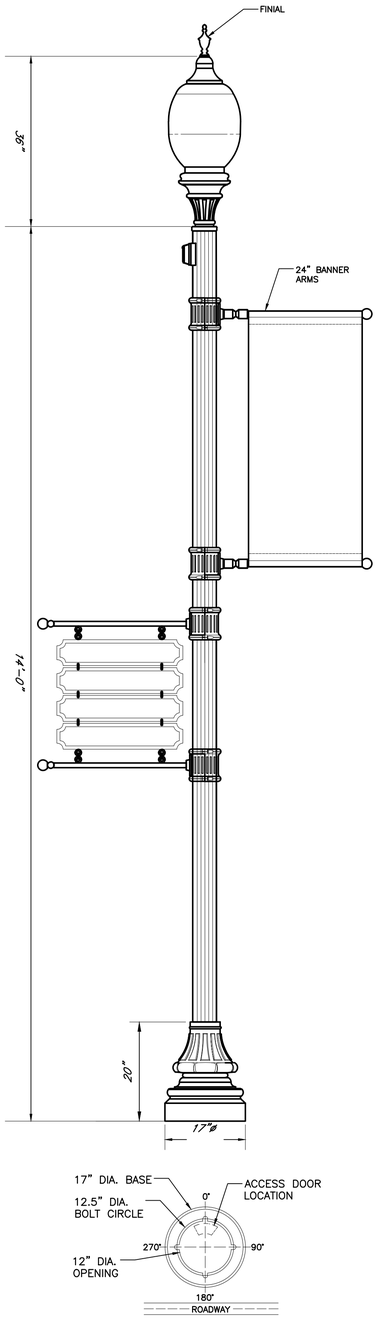
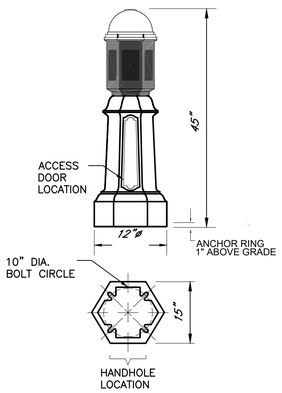


DESCRIPTION OF COMPONENTS:

LUMINAIRE: PEMCO
TYPE III: LEX2-PA-C5-80W3K-U-3-N-N-PC-D-BK
TYPE V: LEX2-PA-C5-80W3K-U-5-N-N-PC-D-BK

POLE: PEMCO
TYPE A: PLB112-4-14-F-188-T300-GFIC-BK
TYPE B: PLB112-4-14-F-188-T300-GFIC(IN-USE)-(2)BANNER ARMS-BK
TYPE BS: PLB112-4-14-F-188-T300-GFIC(IN-USE)-(2)BANNER ARMS (2)STREET SIGN ARM-BK
TYPE S: PLB112-4-14-F-188-T300-GFIC(IN-USE)-(2)STREET SIGN ARM-BK

1. FINIAL: GF4 Finial – Made of cast aluminum
2. ROOF: Made of clear prismatic acrylic with solid top internal reflector.
3. LAMP/OPTICS: 80W LED MODULE – 87W, 94-104-LPW
   TYPE III – 8110 LUMENS
   TYPE V – 8581 LUMENS
   short distribution, >100.000hrs @25C&70%LM.
4. LENS/GLOBE: Made of prismatic acrylic. (No bands, cages or spinning.)
5. FITTER/CAPITALS: Made of cast aluminum, mechanically secured. 3"dia. x 3" high tenon, TYPE C5/PLC5 @ 9-15/16" High.
6. DRIVERS: IP66 Rated, 350mA, quadruple tap, 120, 208, 240, 277 volt, wired at 120 volt, field replaceable 10kV/10kA surge suppression, c/w quick disconnect plug.
7. POLE: Fluted – Standard 12 Flutes
   Made of thick walled, .188,
   Straight. 5" O.D.
   Pole height is 14'-0".
8. RECEPTACLE: GFCI, WR, Duplex receptacle with WP In-Use cover, locate on sidewalk side.
9. BANNER ARMS: made from aluminum, 1" dia. with length matching existing style 16#X45, clamshell type shall be cast aluminum, field mounted.
10. ACCESS DOOR: Made of aluminum, covering an opening of 4"x 5", giving access to a ground lug.
11. FINISH: An application finish via a multi-step paint processing, finish coat of two part aliphatic acrylic polyurethane. aluminum components shall have a multi-stage. polyester powder coat paint process, color to be matching black BK.
12. PHOTOCELL: button eye photo control type.
13. WIRING: Included, from luminaire to the base for line Voltage.
14. GASKETING: Neoprene and/or silicone gasketing is applied.
15. HARDWARE: All exposed screws will be stainless steel. All easily accessible exterior hardware shall be tamper resistant
16. ANCHORAGE: Anchor bolt orientation shall be parallel to roadway.
17. TRAFFIC SIGNAL HARDWARE: clamshell type. No banding will be allowed.



B KEENE LIGHTED BOLLARD – LED
SCALE: NTS

KD KEENE SINGLE ACORN LIGHT POLE – LED
SCALE: NTS

GENERAL NOTES AND SPECIFICATIONS

1. THE SCOPE OF WORK IS TO PROVIDE ALL LABOR, MATERIALS, SERVICES, SUPPLIES, TOOLS, EQUIPMENT, TRANSPORTATION, AND FACILITIES NECESSARY TO FURNISH AND INSTALL COMPLETE ELECTRICAL WORK AS CALLED FOR ON THE DRAWINGS, SPECIFIED, OR AS MAY REASONABLY BE IMPLIED AS BEING INCIDENTAL TO THIS WORK.

2. SECURE AND PAY COSTS OF PERMITS, CERTIFICATES, LICENSES, INSPECTIONS, AND APPROVALS. ANY POWER OUTAGE SHALL BE SCHEDULED AND APPROVED BY THE OWNER.

3. DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF WORK. BASIC DESIGN CONCEPTS INDICATED ARE TO BE EITHER FOLLOWED OR BETTERED. WORK IS INTENDED TO INCLUDE ITEMS NECESSARY FOR PROPER OPERATION AND COMPLETION. FIELD VERIFY ALL LOCATIONS, ELEVATIONS, AND DIMENSIONS.

4. EXECUTE ALL WORK IN A NEAT AND WORKMANLIKE MANNER IN CONFORMANCE WITH BEST MODERN TRADE PRACTICE, BY COMPETENT, EXPERIENCED MECHANICS, PRESENTING A NEAT APPEARANCE WHEN COMPLETED. REPLACE WORK NOT APPROVED BY OWNER WITHOUT ADDITIONAL CHARGE.

5. ALL MATERIALS AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE, AND ALL CODES, REGULATIONS AND REQUIREMENTS OF ALL MUNICIPAL, STATE, FEDERAL AND OTHER PUBLIC OR PRIVATE AUTHORITIES WHICH HAVE JURISDICTION. IN EACH CASE, CODES ARE MINIMUM REQUIREMENTS.

6. SHOP DRAWINGS: SUBMIT COMPLETE CATALOG INFORMATION FOR ALL MATERIALS AND EQUIPMENT TO BE PURCHASED AND USED ON THIS PROJECT, AS SPECIFIED ON THE DRAWINGS. DO NOT INSTALL MATERIALS OR EQUIPMENT WITHOUT APPROVAL BY THE OWNER. UNAPPROVED MATERIAL ALREADY INSTALLED SHALL BE SUBJECT TO REMOVAL AND REPLACEMENT WITH APPROVED MATERIALS AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR IS RESPONSIBLE FOR INSURING THAT APPROVED SUBSTITUTE ITEMS WILL FIT INTO AVAILABLE SPACES AND FOR ANY EXTRA CHARGES BY OTHER TRADES.

7. AS THERE MAY BE VARIOUS CONDITIONS AT THE SITE WHICH DO NOT SHOW ON THE ACCOMPANYING DRAWINGS, OR WHICH ARE AT VARIANCE WITH THE CONDITIONS INDICATED ON THE DRAWINGS, IT IS IMPORTANT THAT EACH BIDDER VISIT THE SITE AND ACQUAINT THEMSELVES WITH EXISTING CONDITIONS AND TAKE THESE CONDITIONS INTO CONSIDERATION WHEN PREPARING THEIR BID. EACH BIDDER SHALL OBTAIN INFORMATION OR MAKE ANY MEASUREMENT DESIRED. LACK OF KNOWLEDGE RELATIVE TO EXISTING SITE CONDITIONS WILL NOT BE ALLOWED AS A BASIS FOR EXTRA COMPENSATION.

8. THE FINISHED INSTALLATION SHALL BE COMPLETE IN EVERY RESPECT AND DETAIL, TESTED AND LEFT READY IN PERFECT OPERATING CONDITION FOR THE OWNER'S USE.

9. MATERIALS AND EQUIPMENT SHALL BE LISTED BY UNDERWRITERS' LABORATORIES AND SHALL BE INSTALLED IN ACCORDANCE WITH SUCH LISTINGS.

10. THE ELECTRICAL CONTRACTOR SHALL GUARANTEE THAT MATERIALS, EQUIPMENT AND WORKMANSHIP PROVIDED BY THEM SHALL BE FREE FROM DEFECTS IN MATERIALS OR WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE OF THE WORK DONE UNDER THIS CONTRACT, AND SHALL REPLACE PARTS FOUND TO BE DEFECTIVE WITHIN THE PERIOD COVERED BY SUCH GUARANTEE, WITHOUT COST TO THE OWNER.

11. INSTALLATION SHALL BE MADE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

12. ELECTRICAL CONTRACTOR SHALL CARRY ALL COSTS RELATING TO REMOVAL AND DISPOSAL OF ALL ELECTRICAL EQUIPMENT, LIGHTING FIXTURES, CONCRETE BASES AND RELATED EQUIPMENT.

GENERAL SITE CONSTRUCTION NOTES:

1. ALIGN FIXTURES ALONG ALL CONTINUOUS STRAIGHT SECTIONS. FIXTURES SHALL BE SET AT A NOMINAL DISTANCE OF 3 FT. FROM EDGE OF CURBS/WALKWAYS TO CENTER OF FIXTURE BASE OR AS INDICATED BY STATIONING. SEE TYPICAL LIGHT POLE LAYOUT TO EDGE OF WALKWAY DETAIL.

2. EXISTING LIGHTING TO REMAIN IN PLACE AND OPERATIONAL UNTIL NEW LIGHTING IS INSTALLED. EXISTING UNDERGROUND WIRE AND CONDUIT SHALL BE REMOVED. CONTRACTOR SHALL CARRY ALL COSTS RELATING TO THE REMOVAL AND DISPOSAL OF CONCRETE BASES, WIRING, AND ASSOCIATED MATERIALS. OWNER'S EXISTING LIGHT FIXTURES AND POLES (QTY. 20 AS SELECTED BY TOWN REPRESENTATIVE) SHALL BE TURNED OVER TO THE OWNER AND SHALL BE TRANSPORTED TO THE OWNER'S STORAGE SITE (MAXIMUM OF 10 MILES FROM PROJECT SITE.)

3. WHERE CONDUIT IS TO BE INSTALLED UNDER EXISTING PAVED WALKWAY. PAVEMENT SHALL BE CUT AND PATCHED.

4. LOCATION OF PROPOSED ELECTRICAL SERVICES ARE INTENDED NOT TO DISTURB ROOT SYSTEMS OF EXISTING TREES OR SHRUBS. ELECTRICAL CONTRACTOR SHALL EXERCISE DUE CARE TO PREVENT DAMAGE THERETO. ALL GRASS AREAS DISTURBED SHALL BE RESTORED TO ROUGH GRADE. TOPSOIL AND GRASS SEEDING SHALL BE DONE BY GENERAL CONTRACTOR. LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR REMOVAL, CARE & REPLANTING OF ALL PLANTINGS AND SHRUBS DISTURBED DURING CONSTRUCTION.

9. EXISTING UTILITIES ARE SHOWN USING THE BEST AVAILABLE RECORD PLAN INFORMATION. EXPLORATORY EXCAVATION BY CONTRACTOR SHALL BE PERFORMED AT ALL POTENTIAL UTILITY CONFLICTS TO LOCATE EXISTING UTILITIES, PRIOR TO INSTALLATION OF UNDERGROUND CONDUITS, DUCTBANKS, AND BASES. CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF ALL UTILITIES WHETHER OR NOT THEY ARE SHOWN ON THE PLANS. ALL REPAIRS TO DAMAGED UTILITIES SHALL BE MADE BY THE CONTRACTOR USING MATERIALS APPROVED BY THE ENGINEER AT NO ADDITIONAL EXPENSE TO THE OWNER.

10. CONTRACTOR TO CONTACT DIG SAFE AT 1-888-DIG-SAFE, PRIOR TO COMMENCING WORK. CONTRACTOR SHALL VERIFY LOCATION OF ALL OVERHEAD AND UNDERGROUND ELECTRIC AND TELEPHONE LINES AND TAKE NECESSARY PRECAUTIONS IN STRICT ACCORDANCE WITH OSHA STANDARDS DURING CONSTRUCTION. CONTRACTOR SHALL CONTACT LOCAL ELECTRICAL, CABLE AND TELEPHONE UTILITIES REGARDING ANY NECESSARY SUPPORT OF ANY UTILITY POLES DURING CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR THE SUPPORT OR TEMPORARY RELOCATION OF ALL UTILITY POLES AFFECTED BY THE CONSTRUCTION.

11. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING BARRIERS TO PREVENT PUBLIC ENTRY TO ANY AREAS OF CONSTRUCTION INCLUDING HOLES TRENCHED, PILES OF FILL MATERIAL, CONSTRUCTION MATERIALS, AND ANY OTHER CONSTRUCTION HAZARDS. BARRIERS SHALL BE PROVIDED AT ALL HOURS AND SHALL CLEARLY INDICATE THE AREA NOT TO BE TRESPASSED.

0 20' 40'

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File Name: 50806_LIGHTING DETAILS	XXX Dwn.	TJG Dsgn.	DEM Chkd.	2025-01-29 YYYY-MM-DD

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KEENE DOWNTOWN IMPROVEMENTS

KEENE, NEW HAMPSHIRE

Title
SITE LIGHTING DETAILS (SHEET 01 OF 03)

Project No.	Scale
179450806	1"=20'

Revision	Sheet	Drawing No.
0	142 of 232	LT-7

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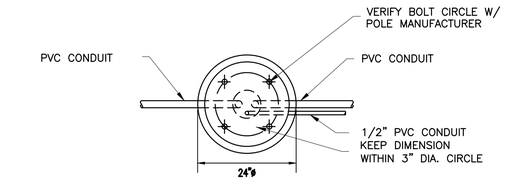
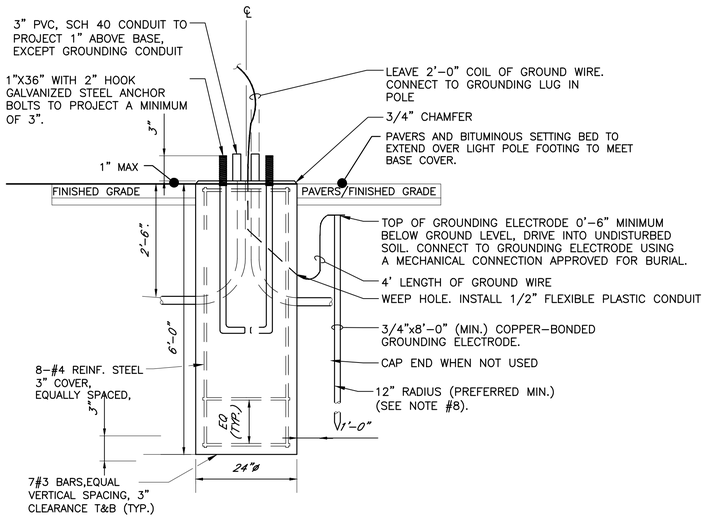
ORIGINAL SHEET - ANSI D



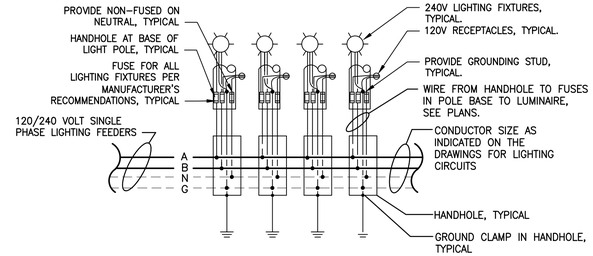


ELEVATION

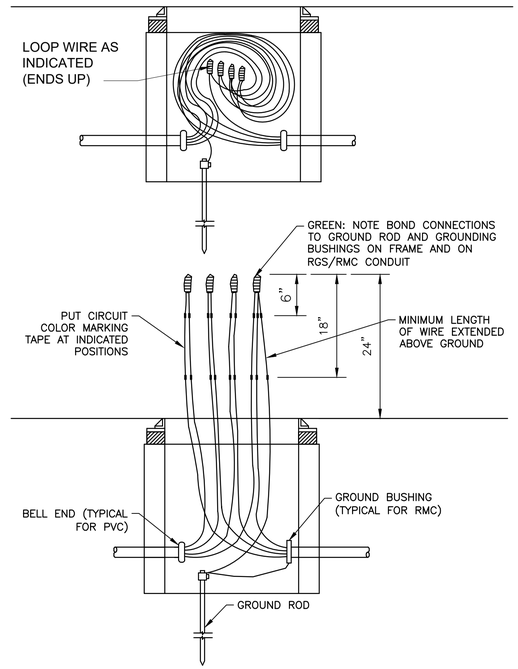
CONCRETE BASE AND GENERAL NOTES:

1. ALL CONCRETE BASES TO BE CONCRETE CLASS B, AND SHALL HAVE A SMOOTH LEVEL TOP SURFACE FINISHED WITH A 3/4" RADIUS EDGING TOOL.
2. ALL REINFORCING STEEL TO CONFORM TO THE REQUIREMENTS FOR "REINFORCING STEEL".
3. TEMPLATE FOR ANCHOR BOLTS, STAINLESS STEEL ANCHOR BOLTS, NUTS AND WASHERS TO BE OBTAINED BY CONTRACTOR PRIOR TO CONSTRUCTION OF BASES.
4. CONDUIT SIZE – AS SHOWN ON THE PLANS.
5. ALL EXPOSED METAL HARDWARE EXCEPT ANCHOR BOLTS SHALL BE GALVANIZED STEEL.
6. IF THE ELECTRICAL CONDUIT IN THE CONCRETE BASE IS GALVANIZED STEEL, GROUNDING BUSHINGS SHALL BE USED.
7. THE MINIMUM RADIUS FOR RIGID METALLIC OR NONMETALLIC ELECTRICAL CONDUIT SHALL BE SIX TIMES THE INSIDE DIAMETER OF THE CONDUIT.
8. GROUT TO ELIMINATE ANY SPACE BETWEEN CONCRETE BASE AND METAL BASE OF FIXTURE.

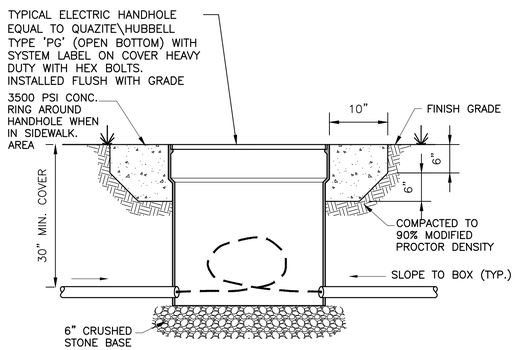
LB CONCRETE LIGHT POLE BASE
SCALE: NTS



1L 120/240 VOLT – 1PH CIRCUITING ONE LINE DIAGRAM
SCALE: NTS



HR TYPICAL HANDHOLE WIRING DETAIL
SCALE: NTS



TYPE HS – 13"x24"x36"
TYPE HM – 17"x30"x36"
TYPE HL – 24"x36"x36"

HANDHOLE GENERAL NOTES:

1. TERMINATE CONDUIT RUN WITH END BELL. CONDUIT DESTINATION TO BE PERMANENTLY MARKED ON CONDUIT END. CONDUIT SIZE AS SHOWN ON DRAWING SCH. 40 PVC. LIMIT (3) 3" DIAMETER CONDUITS PER KNOCKOUT.
2. INSTALL 1/4" DIAMETER NYLON PULL LINE IN EACH DUCT, INCLUDING 10' SLACK, AND SECURE TO CONDUIT PLUG. PLUGGED CONDUIT TO BE LEFT ACCESSIBLE.
3. INSTALL ON VIRGIN OR WELL TAMPED GRAVEL. WHERE POOR SOIL EXISTS, REMOVE TO 6" BELOW BOTTOM OF HANDHOLE AND BACKFILL WITH COMPACTED CLEAN GRAVEL, FREE OF FOREIGN MATTER AND DEBRIS, AND EXTENDING 12" PST EDGE OF STRUCTURE. REMAINING BACKFILL SHALL NOT CONTAIN ASHES, FROZEN MATERIAL DEBRIS OR STONES LAGER THAN 2" IN MAXIMUM DIA.
4. "LIGHTING" LETTERS OR "POWER", LETTERS 2-1/2" HIGH

HH TYPICAL TIER 22 HANDHOLE DETAIL
SCALE: NTS

0 20' 40'

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Notes

Revision	By	Appd	YYYY-MM-DD

Issued	By	Appd	YYYY-MM-DD
File Name: 50806_LIGHTING DETAILS	XXX Dwn.	TJG Dsgn.	DEM Chkd.	2025-01-29 YYYY-MM-DD

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CITY OF KEENE

KEENE DOWNTOWN IMPROVEMENTS

KEENE, NEW HAMPSHIRE

Title
SITE LIGHTING DETAILS
(SHEET 02 OF 03)

Project No.	Scale
179450806	1"=20'
Revision 0	Sheet 143 of 232
Drawing No.	LT-08

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CONDUIT & CONDUCTOR SCHEDULE

KEY	CONDUIT TYPE	CONDUIT SIZE	CONDUCTORS				
			FOR FIXTURES + POLE RECP	FOR RECEPTACLES	FOR EQUIPMENT	FOR TELEPHONE	FOR GROUND
A	PVC	2"	3#10				1#10G
B	PVC	3"	3#6				1#6G
B2	PVC	3"	2-3#6				1#6G
B4	PVC	3"	4-3#6				1#6G
C	PVC	3"	3#4				1#4G
C2	PVC	3"	2-3#4				1#4G
C4	PVC	3"	4-3#4				1#4G
D	PVC	3"	3#2				1#2G
D2	PVC	3"	2-3#2				1#2G
D4	PVC	3"	4-3#2				1#2G
E	PVC	3"	#500 PULL CORD				
R3		4"		2#10,2#8, 2#2			1#2G
		4'					

GENERAL NOTES:

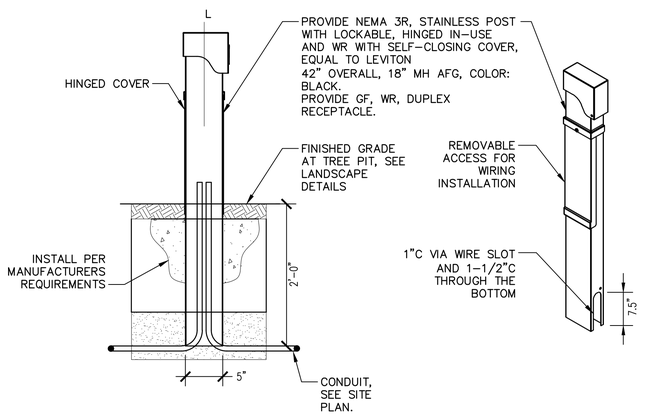
1. NDS PERMITTED IN SINGLE RUN OF CONDUIT

2. D AT BASE WITH Y-TYPE FUSE KIT
OD SEAL]) FYC-6 AND 10 AMP FUSE

3. RAL CONDUCTOR SHALL BE CLEARLY IDENTIFIED BY
DICATING CIRCUIT NUMBER AND PANEL SOURCES
POLE BASE AND HANDHOLE.

4. LEL TAP CONNECTOR EQUAL TO ILSCO GTA SERIES
COVER FOR TAPS AT POLE BASE.

5. LEL TAP CONNECTOR EQUAL TO ILSCO PED SERIES
DIRECT BURIAL IN JUNCTION BOXES, HANDHOLES AND MANHOLES.



TR DUPLEX RECEPTACLE POWER PEDESTAL @ TREE PIT
SCALE: NTS

0 20' 40'

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Issued	By	Appd	YYYY-MM-DD
File Name: 50806_LIGHTING DETAILS	XXX	TJG	DEM	2025-01-29
	Dwn.	Dsgn.	Chkd.	YYYY-MM-DD

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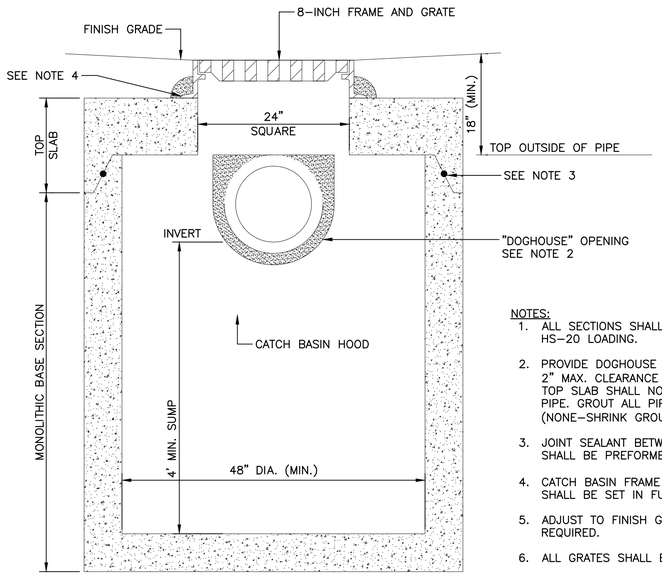
KEENE DOWNTOWN IMPROVEMENTS

KEENE, NEW HAMPSHIRE

Title
SITE LIGHTING DETAILS
(SHEET 03 OF 03)

Project No. 179450806
Scale 1"=20'
Revision 0
Sheet 144 of 232
Drawing No. LT-09

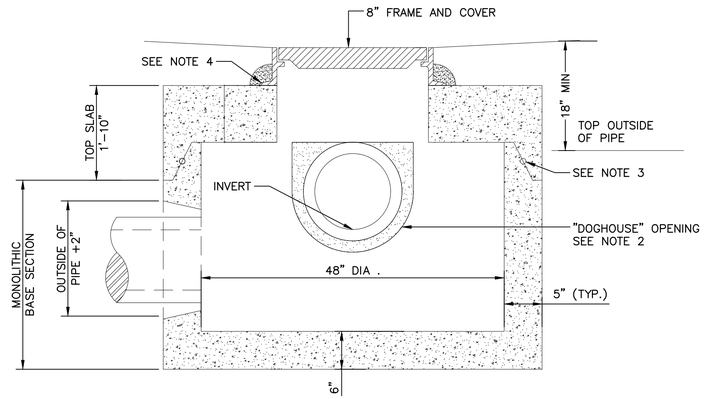
ORIGINAL SHEET - ANSI D



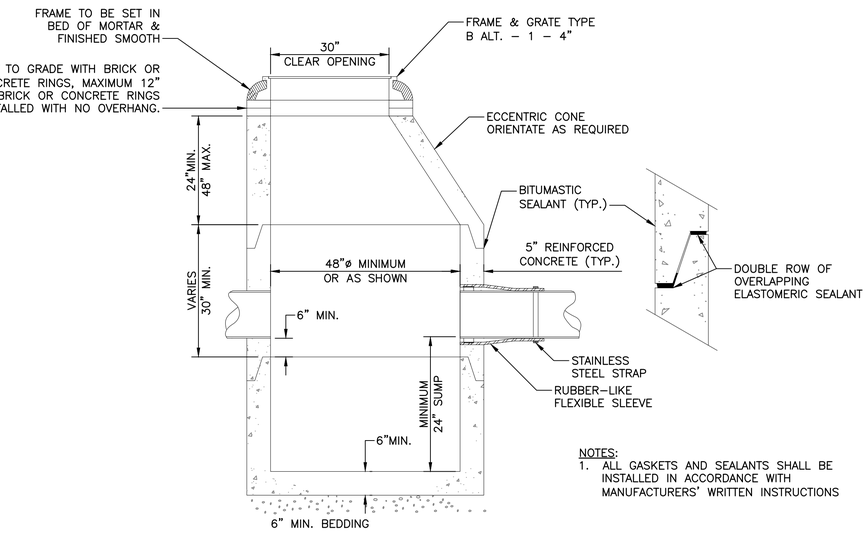
NOTES:
1. ALL SECTIONS SHALL BE DESIGNED FOR HS–20 LOADING.
2. PROVIDE DOGHOUSE OPENING FOR PIPES WITH 2" MAX. CLEARANCE TO OUTSIDE OF PIPE. TOP SLAB SHALL NOT REST DIRECTLY ON PIPE. GROUT ALL PIPE CONNECTIONS (NONE–SHRINK GROUT).
3. JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE PREFORMED BUTYL RUBBER.
4. CATCH BASIN FRAME AND GRATE (8" DEPTH) SHALL BE SET IN FULL MORTAR BED.
5. ADJUST TO FINISH GRADE WITH MORTAR AS REQUIRED.
6. ALL GRATES SHALL BE ADA COMPLIANT.

1 SPECIAL CATCH BASIN - SHALLOW
NTS

NOTES:
1. ALL SECTIONS SHALL BE DESIGNED FOR HS–20 LOADING.
2. PROVIDE DOGHOUSE OPENING FOR PIPES WITH 2" MAX. CLEARANCE TO OUTSIDE OF PIPE. TOP SLAB SHALL NOT REST DIRECTLY ON PIPE. GROUT ALL PIPE CONNECTIONS (NON–SHRINK GROUT).
3. JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE PREFORMED BUTYL RUBBER.
4. MANHOLE FRAME AND COVER (8" DEPTH) SHALL BE SET IN FULL MORTAR BED.
5. ADJUST TO FINISH GRADE WITH CLAY BRICK AND MORTAR AS REQUIRED.
6. PROVIDE BRICK CHIPS AND MORTAR OR 4000 PSI CEMENT CONCRETE TABLE.

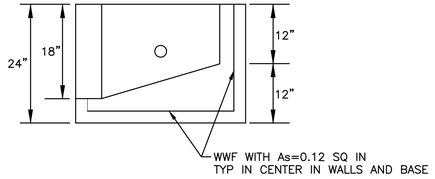


2 SPECIAL MANHOLE - SHALLOW
NTS

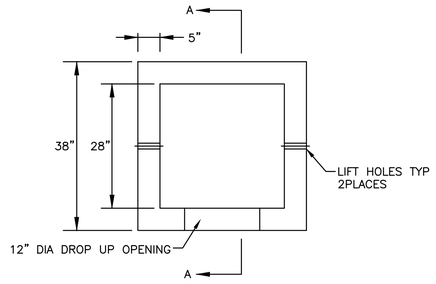


NOTES:
1. ALL GASKETS AND SEALANTS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' WRITTEN INSTRUCTIONS

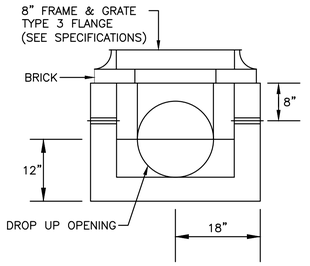
3 DRAINAGE STRUCTURE DETAIL
NTS



SECTION A-A



PLAN VIEW



ELEVATION

NOTES:
1. DESIGNED FOR AASHTO HS25–44 LOADING.
2. CONCRETE STRENGTH fc = 4000 PSI.
3. REINFORCING STEEL ASTM A185 (WWF) fy =6000 PSI.
4. CURB INLETS ARE REQUIRED WHEN GUTTER INLETS ARE INSTALLED AGAINST CURBING.

4 GUTTER INLET DETAIL
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KEENE, NEW HAMPSHIRE

Title
STORMWATER DETAILS
(SHEET 01 OF 03)

Project No.	Scale
179450806	NTS

Revision	Sheet	Drawing No.
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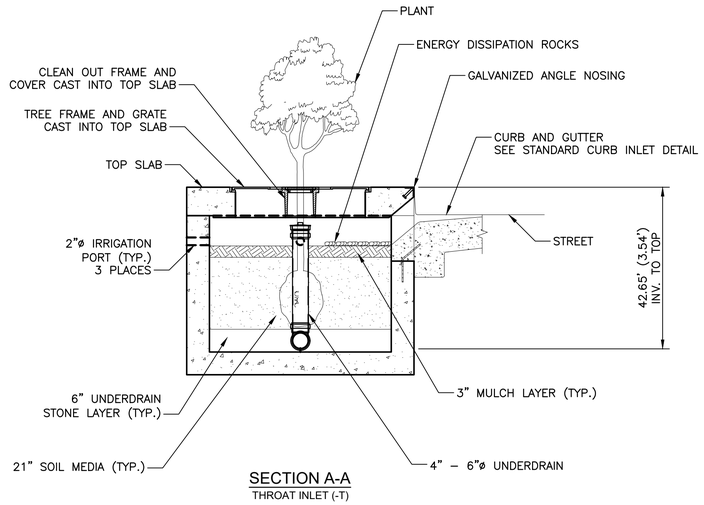
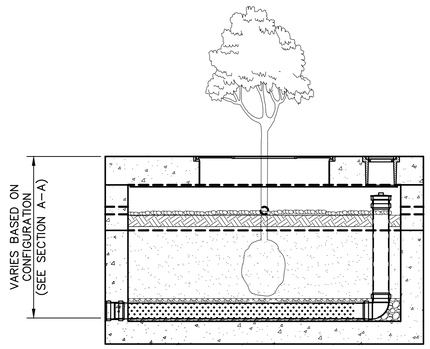
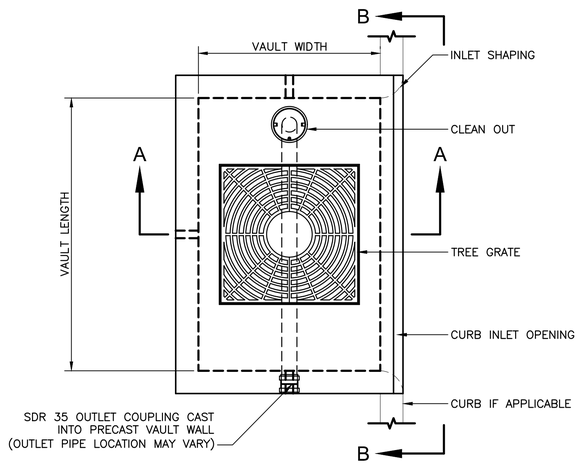
ORIGINAL SHEET - ANSI D



SECTION A-A
THROAT INLET (-T)

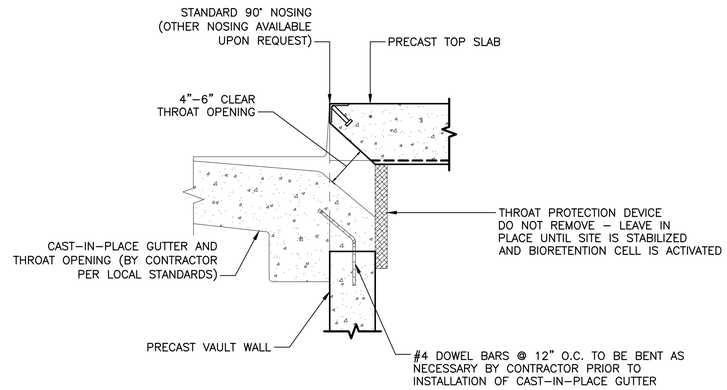


SECTION B-B
THROAT INLET (-T)



PLAN VIEW

STRUCTURE TABLE				
LOCATION	RIM ELEV.	INV. IN	INV. OUT	PIPE SIZE (IN)
BMP–03				
BMP–05				



STANDARD CURB INLET DETAIL

1 BIORETENTION CELL TYPE 1 (BMP-03 & BMP-05)
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KEENE, NEW HAMPSHIRE

Title
STORMWATER DETAILS
SHEET (02 OF 03)

Project No.	Scale
179450806	NTS
Revision: -	Sheet: 39 of 232
Drawing No.	DTL-22

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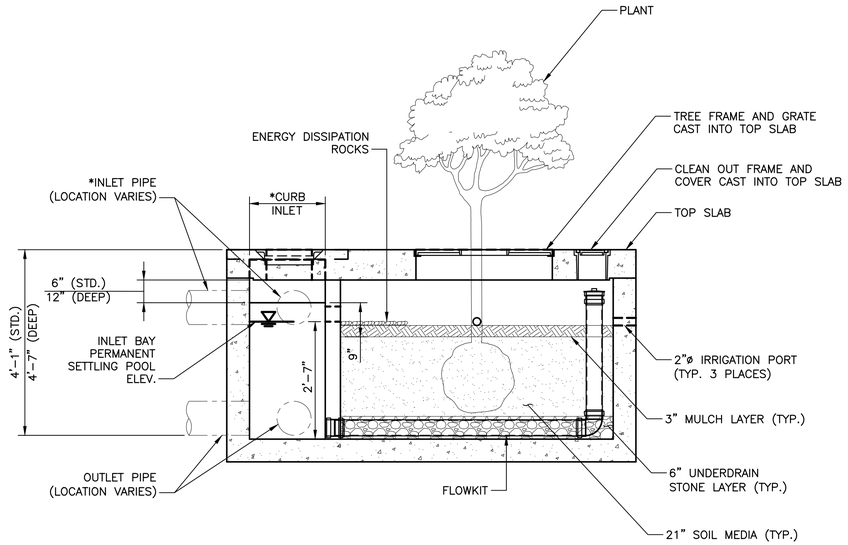
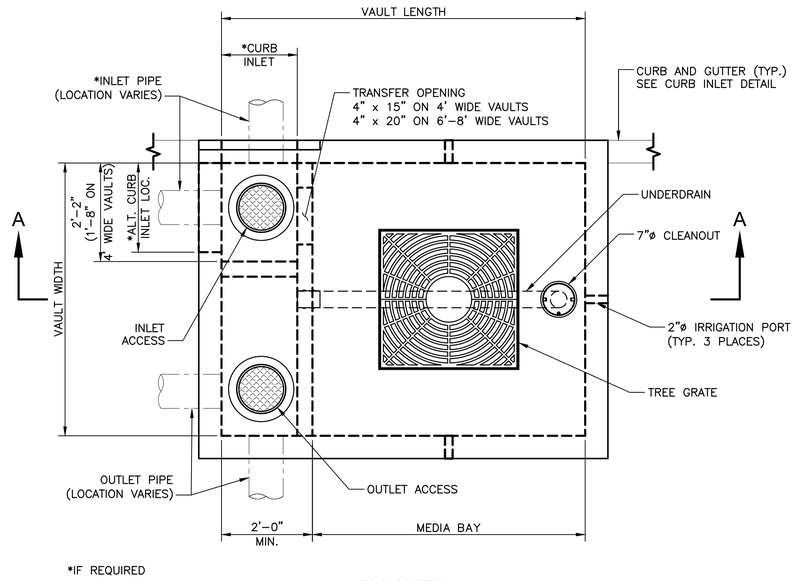


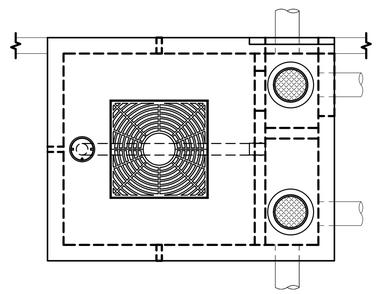
SECTION A-A
(STANDARD DEPTH SHOWN)

STRUCTURE TABLE				
LOCATION	RIM ELEV.	INV. IN	INV. OUT	PIPE SIZE (IN)
BMP-01				
BMP-02				
BMP-04				

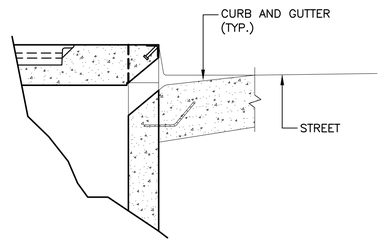


*IF REQUIRED

PLAN VIEW



ALTERNATE ORIENTATION



CURB INLET DETAIL

1 BIORETENTION CELL TYPE 2 (BMP-01, BMP-02 & BMP-04)
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KEENE, NEW HAMPSHIRE

Title
STORMWATER DETAILS
SHEET (03 OF 03)

Project No.	Scale
179450806	NTS

Revision	Sheet	Drawing No.
-	40 of 232	DTL-23

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ORIGINAL SHEET - ANSI D

EROSION CONTROL NOTES AND STRATEGIES

1. Erosion Control/Stormwater Control Selection, Sequencing and Maintenance
   - 1.1. Comply with RSA 485-A:17 Terrain Alteration.
   - 1.2. Install and maintain all erosion control/stormwater controls in accordance with the New Hampshire Stormwater Management Manual, Volume 3, Erosion and Sediment Controls During Construction, December 2008 (BMP Manual), available from the NH Department of Environmental Services (NHDES).
   - 1.3. Install erosion control/stormwater control measures prior to the start of work and in accordance with the manufacturer's recommendations.
   - 1.4. Select erosion control/stormwater control measures based on the size and nature of the project and physical characteristics of the site, including slope, soil type, vegetative cover, and proximity to jurisdictional areas.
   - 1.5. Install perimeter controls prior to earth disturbing activities.
   - 1.6. Install stormwater treatment ponds and drainage swales before rough grading the site.
   - 1.7. Clean, replace, and augment stormwater control measures and infiltration basins as necessary to prevent sedimentation beyond project limits throughout the project duration.
   - 1.8. Inspect erosion and sediment control measures in accordance with Section 645 of the specifications, weekly, and within 24 hours (during normal work hours), of any storm event greater than 0.25 inches of rain in a 24-hour period.
   - 1.9. Contain stockpiles with temporary perimeter controls. Protect inactive soil stockpiles with soil stabilization measures (temporary erosion control seed mix and mulch, soil binder) or cover them with anchored tarps. If the stockpile is to remain undisturbed for more than 14 days, mulch the stockpile.
   - 1.10. Maintain temporary erosion and stormwater control measures in place until the area has been permanently stabilized.
   - 1.11. An area is considered stable if one of the following has occurred:
     - Base course gravels have been installed in areas to be paved;
     - A minimum of 85% vegetative growth has been established;
     - A minimum of 3”of non-erosive material such as stone or rip-rap has been installed;
     - Temporary slope stabilization has been properly installed (see Table 1).
   - 1.12. Direct runoff to temporary practices until permanent stormwater infrastructure is constructed and stabilized.
   - 1.13. Use temporary mulching, permanent mulching, temporary vegetative cover, and permanent vegetative cover to reduce the need for dust control. Use mechanical sweepers on paved surfaces where necessary to prevent dust buildup. Apply water, or other dust inhibiting agents or tackifiers.
   - 1.14. Plan activities to account for sensitive site conditions
     - Sequence construction to limit the duration and area of exposed soils.
     - Clearly flag areas to be protected in the field and provide construction barrier to prevent trafficking outside of work areas.
     - Protect and maximize existing native vegetation and natural forest buffers between construction activities and sensitive areas.
     - When work is undertaken in a flowing watercourse, implement stream flow diversion methods prior to any excavation or filling activity.
   - 1.15. Utilize storm drain inlet protection to prevent sediment from entering a storm drainage system prior to the permanent stabilization of the contributing disturbed area.
   - 1.16. Use care to ensure that sediments do not enter any existing catch basins during construction. Place temporary inlet protection at inlets in areas of soil disturbance that are subject to sedimentation.
   - 1.17. Construct, stabilize, and maintain temporary and permanent ditches in a manner that will minimize scour. Direct temporary and permanent ditches to drain to sediment basins or stormwater collection areas.
   - 1.18. Supplement channel protection measures with perimeter control measures when ditch lines occur at the bottom of long fill slopes. Install the perimeter controls on the fill slope to minimize the potential for fill slope sediment deposits in the ditch line.
   - 1.19. Divert sediment laden water away from drainage inlet structures to the extent possible.
   - 1.20. Install sediment barriers and sediment traps at drainage inlets to prevent sediment from entering the drainage system.
   - 1.21. Clean catch basins, drainage pipes, and culverts if significant sediment is deposited.
   - 1.22. Construct and stabilize dewatering infiltration basins prior to any excavation that may require dewatering.
   - 1.23. Place and stabilize temporary sediment basins or traps at locations where concentrated flow (channels and pipes) discharge to the surrounding environment from areas of unstabilized earth disturbing activities.
   - 1.24. Stabilize, to appropriate anticipated velocities, conveyance channels or pumping systems needed to convey construction stormwater to basins and discharge locations prior to use.
   - 1.25. Size temporary sediment basins to contain the 2-year, 24 hour storm event.
   - 1.26. Size temporary sediment traps to contain 3,600 cubic feet of storage for each acre of drainage area.
   - 1.27. Construct detention basins to accommodate the 2-year, 24-hour storm event.
2. Construction Planning
   - 2.1. Divert off site runoff or clean water away from the construction activities to reduce the volume that needs to be treated on site.
   - 2.2. Divert storm runoff from upslope drainage areas away from disturbed areas, slopes and around active work areas to a stabilized outlet location.
   - 2.3. Construct impermeable barriers, as necessary, to collect or divert concentrated flows from work or disturbed areas.
   - 2.4. Locate staging areas and stockpiles outside of wetlands jurisdiction.
   - 2.5. Do not store, maintain, or repair mobile heavy equipment in wetlands, unless equipment cannot be practicably removed and secondary containment is provided.
   - 2.6. Provide a water truck to control excessive dust, at the discretion of the Contract Administrator.
3. Site Stabilization
   - 3.1. Stabilize all areas of unstabilized soil as soon as practicable, but no later than 45 days after initial disturbance.
   - 3.2. Limit unstabilized soil to a maximum of 5 acres unless documentation is provided that demonstrates that cuts and fills are such that 5 acres is unreasonable.
   - 3.3. Use erosion control seed mix in all inactive construction areas that will not be permanently seeded within two weeks of disturbance and prior to September 15th of any given year in order to achieve vegetative stabilization prior to the end of the growing season.
   - 3.4. Apply, and reapply as necessary, soil tackifiers in accordance with the manufacturer’s specifications to minimize soil and mulch loss until permanent vegetation is established.
   - 3.5. Stabilize basins, ditches and swales prior to directing runoff to them.
   - 3.6. Stabilize roadway and parking areas within 72 hours of achieving finished grade.
   - 3.7. Stabilize cut and fill slopes within 72 hours of achieving finished grade.
   - 3.8. When temporarily stabilizing soils and slopes, utilize the techniques outlined in Table 1.
   - 3.9. Stabilize all areas that can be stabilized prior to opening up new areas to construction activities.
   - 3.10. Utilize Table 1 when selecting temporary soil stabilization measures.
   - 3.11. Divert off-site water through the project in an appropriate manner so as not to disturb the upstream or downstream soils, vegetation or hydrology beyond the permitted area.
   - 3.12. Install and maintain construction exits anywhere traffic leaves a construction site onto a public right-of-way.
   - 3.13. Sweep all construction related debris and soil from the adjacent paved roadways, as necessary.
4. Slope Protection
   - 4.1. Intercept and divert storm runoff from upslope drainage areas away from unprotected and newly established areas and slopes to a stabilized outlet or conveyance.
   - 4.2. Consider how groundwater seepage on cut slopes may impact slope stability and incorporate appropriate measures to minimize erosion.
   - 4.3. Convey storm water down the slope in a stabilized channel or slope drain.
   - 4.4. The outer face of the fill slope should be in a loose, ruffled condition prior to turf establishment.
5. Winter Construction
   - 5.1. To minimize erosion and sedimentation impacts, limit the extent and duration of winter excavation and earthwork activities. The maximum amount of disturbed earth shall not exceed a total of 5 acres from May 1st through October 15th, or exceed one acre during winter months, unless the contractor demonstrates to the Department that the additional area of disturbance is necessary to meet the contractor’s Critical Path Method (CPM) schedule, and the contractor has adequate resources available to ensure that environmental requirements will be met.
   - 5.2. Construction performed any time between October 15th and May 1st of any year is considered winter construction. During winter construction:
     - Stabilize all proposed vegetation areas which do not exhibit a minimum of 85% vegetative growth by October 15th, or which are disturbed after October 15th, in accordance with Table 1.
     - Stabilize all ditches or swales which do not exhibit a minimum of 85% vegetative growth by October 15th, or which are disturbed after October 15th, in accordance with Table 1.
     - Protect incomplete road surfaces, where base course gravels have not been installed, and where work has stopped for the season after October 15th, in accordance with Table 1.
     - Unless a winter construction plan has been approved by NHDOT, conduct winter excavation and earthwork such that no more than 1 acre of the project is without stabilization an any one time.
6. Wildlife Protection Measures
   - 6.1. Report all observations of threatened and endangered species on the project site to the Department’s Bureau of Environment by phone at 603-271-3226 or by email at Bureau16@dot.nh.gov, indicating in the subject line the project name, number, and that a threatened/endangered species was found.
   - 6.2. Photograph the observed species and nearby elements of habitat or areas of land disturbance and provide them to the Department’s Bureau of Environment at the above email address.
   - 6.3. In the event that a threatened or endangered species is observed on the project during work, the species shall not be disturbed, handled, or harmed prior to receiving direction from the Bureau of Environment.
   - 6.4. Utilize wildlife friendly erosion control methods when:
     - Erosion control blankets are used,
     - A protected species or habitat is documented,
     - The proposed work is in or adjacent to a priority resource area, and/or when specifically requested by NHB or NHF&G

GUIDANCE ON SELECTING TEMPORARY SOIL STABILIZATION MEASURES
TABLE 1

APPLICATION AREAS	DRY MULCH METHODS				HYDRAULICALLY APPLIED MULCHES[2]				ROLLED EROSION CONTROL BLANKETS[3]			
	HMT	WC	SG	CB	HM	SMM	BFM	FRM	SNSB	DNSB	DNSCB	DNCB
SLOPES[1]												
STEEPER THAN 2:1	NO	NO	YES	NO	NO	NO	NO	YES	NO	NO	NO	YES
2:1 SLOPE	YES1	YES[1]	YES	YES	NO	NO	YES	YES	NO	YES	YES	YES
3:1 SLOPE	YES	YES	YES	YES	NO	YES	YES	YES	YES	YES	YES	NO
4:1 SLOPE	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	NO	NO
WINTER STABILIZATION	4T/AC	YES	YES	YES	NO	NO	YES	YES	YES	YES	YES	YES
CHANNELS												
LOW FLOW CHANNELS	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	YES	YES
HIGH FLOW CHANNELS	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	YES

ABBREV.	STABILIZATION MEASURE	ABBREV.	STABILIZATION MEASURE	ABBREV.	STABILIZATION MEASURE
HMT	HAY MULCH & TACK	HM	HYDRAULIC MULCH	SNSB	SINGLE NET STRAW BLANKET
WC	WOOD CHIPS	SMM	STABILIZED MULCH MATRIX	DNSB	DOUBLE NET STRAW BLANKET
SG	STUMP GRINDINGS	BFM	BONDED FIBER MATRIX	DNSCB	2 NET STRAW-COCONUT BLANKET
CB	COMPOST BLANKET	FRM	FIBER REINFORCED MEDIUM	DNCB	2 NET COCONUT BLANKET

NOTES:
1. All slope stabilization options assume a slope length ≤ 10 times the horizontal distance component of the slope, in feet.
2. Do not apply products containing polyacrylamide (PAM) directly to, or within 100 feet of any surface water without NHDES approval.
3. Install all methods in Table 1 per the manufacturer’s recommendation for time of year and steepness of slope.

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Notes

Revision — By — Appd — YYYY-MM-DD

Issued — By — Appd — YYYY-MM-DD

File Name: 50806_DTL — TJG Dwn. — TJG Dsgn. — DEM Chkd. — 2025-01-29 YYYY-MM-DD

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KEENE, NEW HAMPSHIRE

Title
EROSION CONTROL DETAILS
(SHEET 01 OF 03)

Project No. 179450806
Scale NTS
Revision -
Sheet 41 of 232
Drawing No. DTL-24

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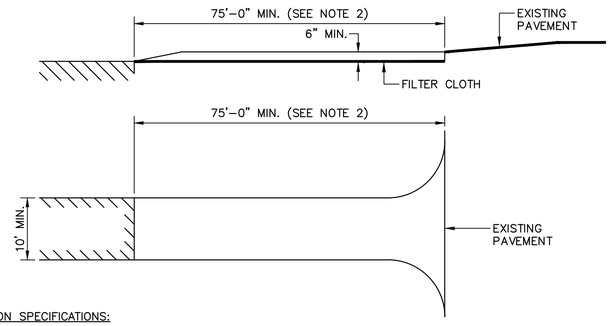


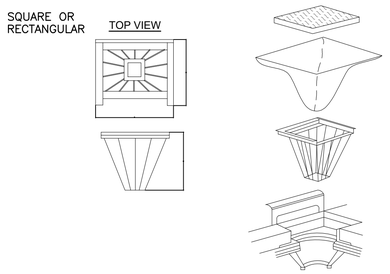
CONSTRUCTION SPECIFICATIONS:

1. STONE FOR A STABILIZED CONSTRUCTION ENTRANCE SHALL BE 3 INCH MINIMUM STONE, RECLAIMED STONE, OR RECYCLED CONCRETE EQUIVALENT.
2. THE LENGTH OF THE STABILIZED ENTRANCE MAY BE REDUCED TO 50 FEET IF A 3 INCH TO 6 INCH HIGH BERM IS INSTALLED AT THE ENTRANCE OF THE PROJECT SITE.
3. THE THICKNESS OF THE STONE FOR THE STABILIZED ENTRANCE SHALL NOT BE LESS THAN 6 INCHES.
4. THE WIDTH OF THE ENTRANCE SHALL NOT BE LESS THAN THE FULL WIDTH OF THE ENTRANCE WHERE INGRESS OR EGRESS OCCURS OR 10 FEET, WHICHEVER IS GREATER.
5. GEOTEXTILE FILTER CLOTH SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING THE STONE.
6. ALL SURFACE WATER THAT IS FLOWING TO OR DIVERTED TOWARDS THE CONSTRUCTION ENTRANCE SHALL BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A BERM WITH 5:1 SLOPES THAT CAN BE CROSSED BY VEHICLES MAY BE SUBSTITUTED FOR THE PIPE.
7. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS–OF–WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIRS AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENTS. ALL SEDIMENTS SPILLED, WASHED, OR TRACKED ONTO PUBLIC RIGHTS–OF–WAY MUST BE REMOVED PROMPTLY.
8. WHEELS SHALL BE CLEANED TO REMOVE MUD PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS–OF–WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. FOR UNDERGROUND INFILTRATION BASINS:
   a. DO NOT TRAFFIC EXPOSED SOIL SURFACE WITH CONSTRUCTION EQUIPMENT. IF FEASIBLE, PERFORM EXCAVATIONS WITH EQUIPMENT POSITIONED OUTSIDE THE LIMITS OF THE INFILTRATION SYSTEM.
   b. AFTER THE INFILTRATION SYSTEM AREA IS EXCAVATED TO THE FINAL DESIGN ELEVATION, THE FLOOR SHOULD BE DEEPLY TILLED WITH A ROTARY TILLER OR DISC HARROW TO RESTORE INFILTRATION RATES, FOLLOWED BY A PASS WITH A LEVELING DRAG.
   c. DO NOT PLACE INFILTRATION SYSTEMS INTO SERVICE UNTIL THE CONTRIBUTING AREAS HAVE BEEN FULLY STABILIZED.

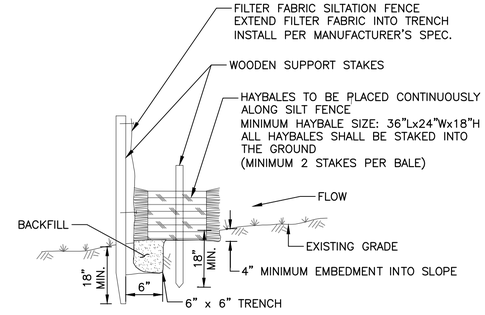
1 CRUSHED STONE CONSTRUCTION ENTRANCE
NTS

FILTER BASKET NOTES:

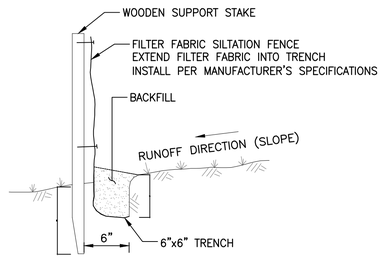
1. INLET BASKETS SHALL BE USED ON ALL CATCH BASINS IN PAVEMENT AREAS WITHIN THE PROJECT LIMITS AND/OR AS DIRECTED BY THE ENGINEER.
2. FILTER FABRIC SHALL BE PUSHED DOWN AND FORMED TO THE SHAPE OF THE BASKET. THE SHEET OF FABRIC SHALL BE LARGE ENOUGH TO BE SUPPORTED BY THE BASKET FRAME WHEN HOLDING SEDIMENT AND EXTEND AT LEAST 6 INCHES PAST THE FRAME. THE INLET GRATE SHALL BE PLACED OVER THE BASKET/FRAME AND WILL SERVE AS THE FABRIC ANCHOR.
3. THE FILTER FABRIC SHALL BE A GEO–TEXTILE FABRIC: POLYESTER, POLYPROPYLENE, STABILIZED NYLON, POLYETHYLENE OR POLYVINYLIDENE CHLORIDE MEETING THE FOLLOWING SPECIFICATIONS:
   – GRAB STRENGTH: 45 lb. MINIMUM IN ANY PRINCIPAL DIRECTION (ASTM D1682).
   – MULLEN BURST STRENGTH: MINIMUM 60 psi (ASTM D774).
   – THE FABRIC SHALL HAVE AN OPENING NO GREATER THAN A NUMBER 20 U.S. STANDARD SIEVE AND MINIMUM PERMEABILITY OF 120 gpm/sq. ft.
4. THE INLET BASKET SHALL BE INSPECTED WITHIN 24 HOURS AFTER EACH RAINFALL OR DAILY DURING EXTENDED PERIODS OF PRECIPITATION. REPAIRS SHALL BE MADE IMMEDIATELY, AS NECESSARY, TO PREVENT PARTICLES FROM ENTERING THE DRAINAGE PIPING SYSTEM AND/OR CAUSING SURFACE FLOODING.
5. INLET BASKETS SHALL BE MAINTAINED IN PLACE UNTIL ALL PAVING IS COMPLETED AND ALL UNPAVED AREAS HAVE BEEN STABILIZED WITH VEGETATION.



2 INLET FILTER BASKET
NTS



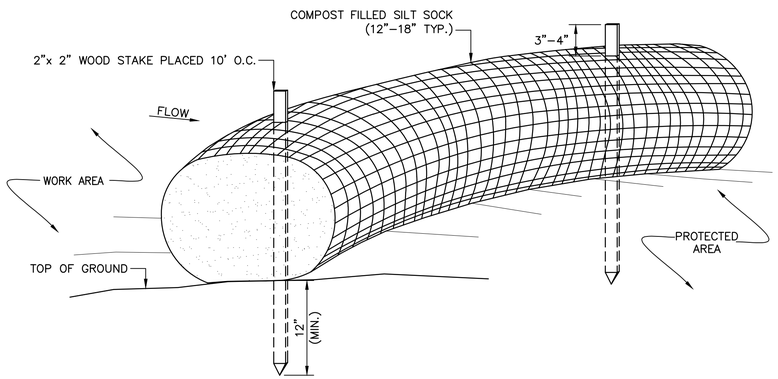
3 SILT FENCE WITH HAY BALES
NTS



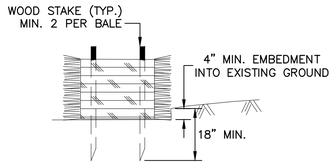
4 SILT FENCE
NTS

NOTES:

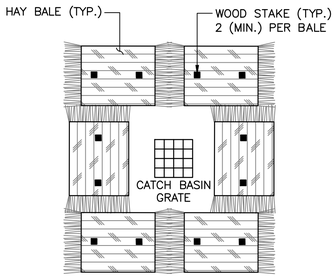
1. SILT SOCK SHALL BE FILTREXX™ SILTSOXX™ OR APPROVED EQUIVALENT.
2. SEE SPECIFICATIONS FOR SOCK SIZE AND COMPOST FILL REQUIREMENTS.
3. SILT SOCK SHALL BE INSPECTED PERIODICALLY AND AFTER ALL STORM EVENTS, AND REPAIR OR REPLACEMENT SHALL BE PERFORMED AS NEEDED.
4. AFTER IMPACT AREA HAS BEEN FULLY STABILIZED, THE COMPOST MATERIAL SHALL BE DISPERSED ON SITE, AS DETERMINED BY THE ENGINEER.



6 SILT SOCK
NTS



5 STAKED HAYBALE
NTS

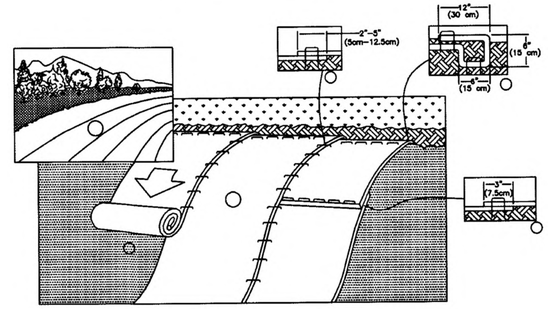


NOTES:

1. BALES TO REMAIN UNTIL SUBBASE PREPARATION IS COMPLETE AND ROADWAY PAVING IS TO BEGIN OR UNTIL ALL UPSTREAM AREAS ARE STABILIZED WITH VEGETATION.
2. SILT SOCK MAY BE USED AT CATCH BASINS INSTEAD OF HAY BALES WITH APPROVAL OF THE ENGINEER.

7 SEDIMENT CONTROL AT CATCH BASINS
NTS

SLOPE INSTALLATION



NOTES:

1. PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECP's), INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. (NOTE: WHEN USING CELL–O–SEED DO NOT SEED PREPARED AREA. CELL–O–SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.)
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE RECP's IN A 6" DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF RECP's EXTENDED BEYOND THE IP–SLOPE PORTION OF THE TRENCH. ANCHOR THE RECP's WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF RECP's BACK OVER SEED AND COMPACTED SOIL. SECURE RECP's OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE RECP's.
3. ROLL THE RECP's (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE. RECP's WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOILS SURFACE. RECP's MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATION AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT SYSTEM™ , STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
4. THE EDGES OF PARALLEL RECP's MUST BE STAPLED WITH APPROXIMATELY 2"–5" OVERLAP DEPENDING ON RECP's TYPE.
5. CONSECUTIVE RECP's SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART ACROSS ENTIRE RECP's WIDTH.
6. IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY SECURE THE RECP's.

8 EROSION CONTROL BLANKET
NTS

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Revision	By	Appd	YYYY-MM-DD
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File Name: 50806_DTL	TJG Dwn.	TJG Dsgn.	DEM Chkd.
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Title
EROSION CONTROL DETAILS
SHEET (02 OF 03)

Project No.	Scale
179450806	NTS

Revision	Sheet	Drawing No.
-	42 of 232	**DTL-25**

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ORIGINAL SHEET - ANSI D

REPORT OBSERVATIONS OF COMMON NIGHTHAWKS

The NH Fish & Game Department is requesting observations of Common Nighthawk that could be encountered onsite.

Report sightings immediately to NHFG Wildlife Division at 603-271-2461 (M-F 8-4) and NHFGreview@wildlife.nh.gov

Please report promptly, noting specific location and date – Photographs strongly encouraged

Photo credit: Rebecca Suomala

- **State Endangered**
  - Possession and take prohibited
  - Nests protected
- Medium-sized bird (about the size of a dove) ~ 9 inches from tip to end of tail
- Wingspan is 21-22 inches
- Well camouflaged with mottling pattern of browns, black and grey
- Distinct, broad, white patch on underside of each outer wing (visible when flying)
- "peent" – sounding call

Photo credit: Pam Hunt

- Nesting occurs typically between mid-late May and early August
- Nests usually consists of 2 eggs that are dark and speckled
- May have more than 1 nest in a season
- Nest is not "built" but rather eggs are laid directly on the ground in an open area (gravel, bare dirt, pea stone, bark/mulch)
- Incubation is for 16-20 days – another 30 plus days for fledging

Photo credit: Stephanie Parkinson

- An adult doing a broken wing display if driven from the nest.
- Adults may also hiss and open their mouth at you if in distress.

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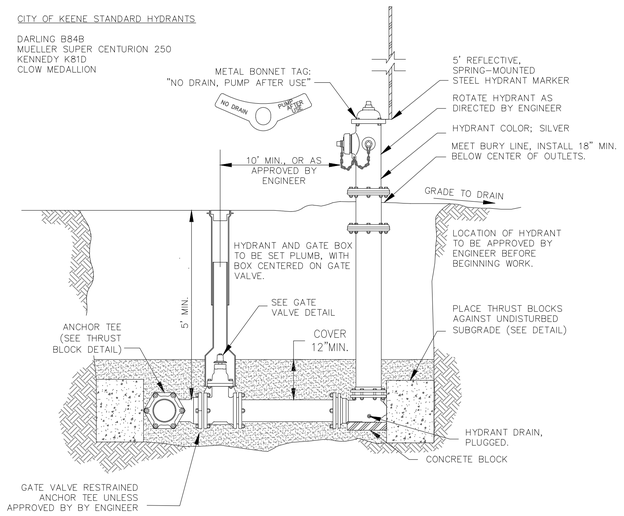
Title
EROSION CONTROL DETAILS
SHEET (03 OF 03)

Project No.	Scale
179450806	NTS

Revision	Sheet	Drawing No.
-	43 of 232	DTL-26

ORIGINAL SHEET - ANSI D



1 HYDRANT DETAIL

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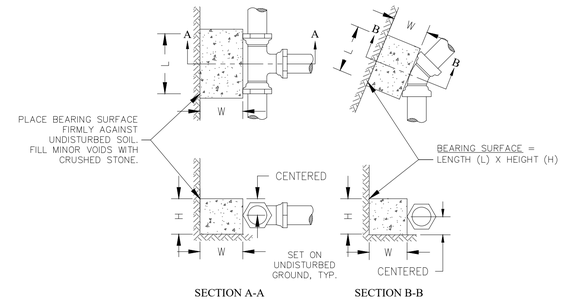


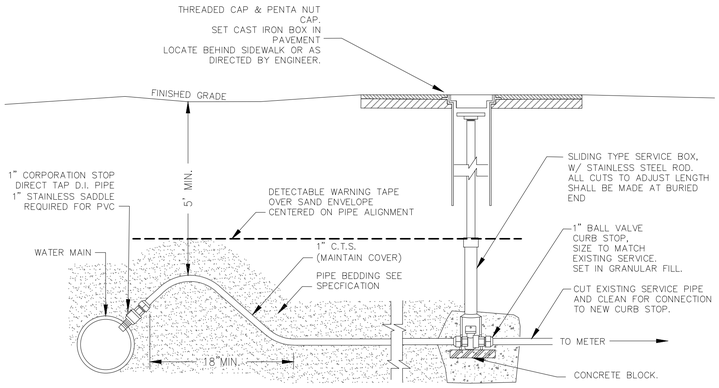
NOTES:
1.) PIPE LARGER THAN 12" WILL REQUIRE USE OF CAST IN PLACE CONCRETE.
2.) CAST IN PLACE CONCRETE FOR 12" OR SMALLER NOT ALLOWED WITHOUT APPROVAL OF ENGINEER.
3.) WIDTH (W) WILL BE APPROXIMATELY EQUAL TO HEIGHT (H).

SQUARE FEET BEARING SURFACE REQUIRED (L x H)

FITTING TYPE/SIZE	6"	8"	10"	12"
90° BEND	3	6	9	12
HYDRANT, TEE, CAP	3	4	6	9
45°, 22°, 11.25° BEND	2	3	5	7

4 THRUST BLOCK DETAIL

NOT TO SCALE



1.) NO JOINTS PERMITTED BETWEEN CORPORATION AND CURB STOP

2.) SERVICE PIPE SHALL BE MINIMUM 1" ASTM #3550 C.T.S. PLASTIC RATED FOR 200 PSI MIN. NO 1-1/4" OR 3" SERVICES ALLOWED.

3.) ALL CORPORATIONS, CURB STOPS, UNIONS, MALE/FEMALE ADAPTORS SHALL BE LEAD-FREE COMPRESSION TYPE FITTINGS. EXISTING FITTINGS THAT ARE NOT COMPRESSION TYPE SHALL BE ABANDONED, OR ADAPTED TO COMPRESSION FITTINGS.

4.) NO THREE-PART UNIONS ARE PERMITTED BETWEEN THE CORPORATION AND THE CURB STOP.

5.) CURB STOP BOXES SHALL BE ERIE STYLE, 5'-6" BURIAL DEPTH WITH 30" STAINLESS STEEL ROD AND PLUG TYPE COVER. COVER SHALL BE THREADED ONTO THE BOX. ANY CUTS TO MEET GRADE SHALL BE MADE ON THE BURIED END OF THE EXTENSION.

6.) NEW TAPS SHALL BE MADE ON THE SIDE OF THE MAIN, APPROXIMATELY 45°, AND MADE FOR CC TYPE THREAD. 1" TAPS MAY BE MADE DIRECTLY INTO THE MAIN. 1-1/2" AND 2" TAPS, OR TAPS INTO PVC WATER MAIN SHALL HAVE DOUBLE STRAP CORPORATION SADDLES. FIRE LINES SHALL NOT BE TAPPED FOR DOMESTIC USE.

7.) CORPORATION SADDLES SHALL BE STAINLESS STEEL, DOUBLE STUD, NSF 61 CERTIFIED, RATED FOR 150 PSI. ALL HARDWARE SHALL BE 304 STAINLESS STEEL WITH ANTI-GALLING COMPOUND COATED THREADS. GASKETS SHALL COVER THE SADDLE WITH MULTIPLE CONCENTRIC RIBS.

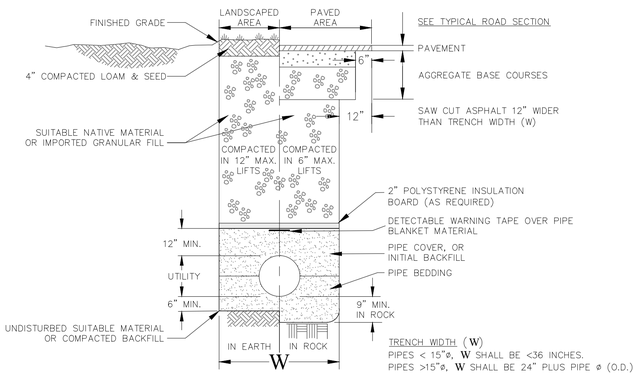
8.) ALL SERVICES MUST BE INSPECTED BY THE ENGINEERING OR WATER DIVISION BEFORE BACKFILLING.

2 WATER SERVICE DETAIL

NOT TO SCALE

5 GATE VALVE DETAIL

NOT TO SCALE



WATER PIPES WITH LESS THAN 5 FT OF COVER SHALL BE INSULATED WITH 2" THICK POLYSTYRENE INSULATION, CENTERED ON THE PIPE ALIGNMENT. INSULATION SHALL EXTEND THE SAME DISTANCE BEYOND THE OUTER SURFACE OF PIPE (HORIZONTALLY) AS THE REDUCED AMOUNT OF COVER DEPTH.

3 WATER TRENCH DETAIL

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Issued	By	Appd	YYYY-MM-DD
File Name: 50806_DTL	TJG Dwn.	TJG Dsgn.	DEM Chkd.	2025-01-29 YYYY-MM-DD

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CITY OF KEENE

KEENE DOWNTOWN IMPROVEMENTS

KEENE, NEW HAMPSHIRE

Title
WATER DETAILS (SHEET 01 OF 01)

Project No.	Scale
179450806	NTS

Revision	Sheet	Drawing No.
-	44 of 232	DTL-28

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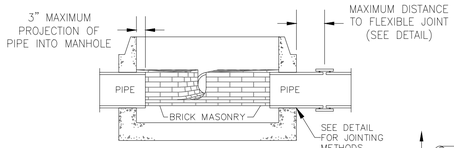
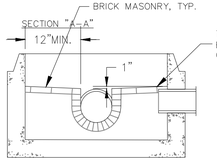


SECTION "A–A"



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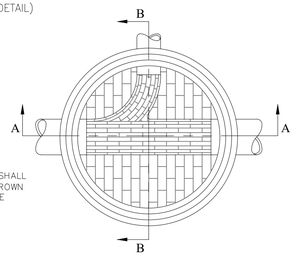


TYPICAL MANHOLE – PLAN VIEW

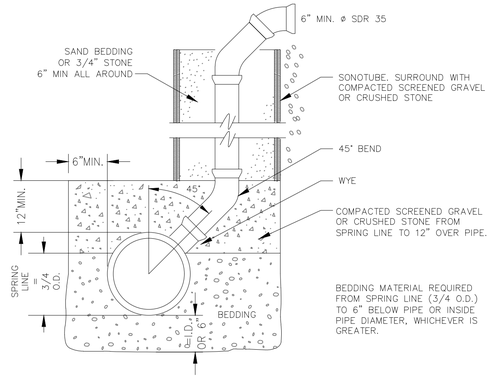
TYPICAL MANHOLE – PLAN VIEW

SECTION "B–B"

1. INVERT AND SHELF TO BE CONSTRUCTED AFTER LEAKAGE TEST
2. CARE SHALL BE TAKEN TO ENSURE THAT BRICK INVERT IS A SMOOTH CONTINUATION OF THE SEWER INVERT. INVERT BRICKS SHALL BE LAID ON EDGE
3. BASE SECTION TO BE FULL WALL THICKNESS AND MONLITHIC TO A POINT 6" ABOVE THE PIPE

1 SEWER MANHOLE CHANNEL DETAIL

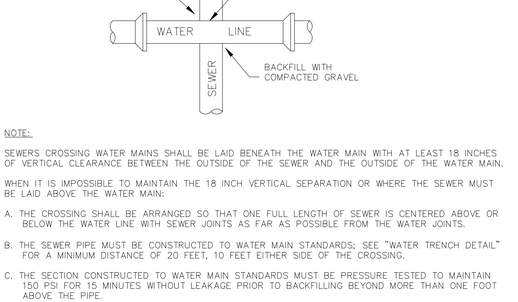
NOT TO SCALE



NOTE: CHIMNEY TO BE CONSTRUCTED OF SAME PIPE AS SEWER MAIN.

2 SEWER CHIMNEY DETAIL

NOT TO SCALE



NOTE:

SEWERS CROSSING WATER MAINS SHALL BE LAID BENEATH THE WATER MAIN WITH AT LEAST 18 INCHES OF VERTICAL CLEARANCE BETWEEN THE OUTSIDE OF THE SEWER AND THE OUTSIDE OF THE WATER MAIN.

WHEN IT IS IMPOSSIBLE TO MAINTAIN THE 18 INCH VERTICAL SEPARATION OR WHERE THE SEWER MUST BE LAID ABOVE THE WATER MAIN:

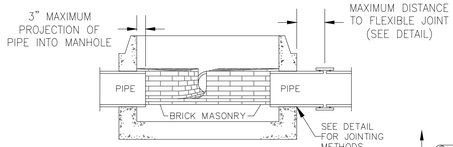
A. THE CROSSING SHALL BE ARRANGED SO THAT ONE FULL LENGTH OF SEWER IS CENTERED ABOVE OR BELOW THE WATER LINE WITH SEWER JOINTS AS FAR AS POSSIBLE FROM THE WATER JOINTS.

B. THE SEWER PIPE MUST BE CONSTRUCTED TO WATER MAIN STANDARDS; SEE "WATER TRENCH DETAIL" FOR A MINIMUM DISTANCE OF 20 FEET, 10 FEET EITHER SIDE OF THE CROSSING.

C. THE SECTION CONSTRUCTED TO WATER MAIN STANDARDS MUST BE PRESSURE TESTED TO MAINTAIN 150 PSI FOR 15 MINUTES WITHOUT LEAKAGE PRIOR TO BACKFILLING BEYOND MORE THAN ONE FOOT ABOVE THE PIPE.

3 SEWER CROSSING DETAIL

NOT TO SCALE



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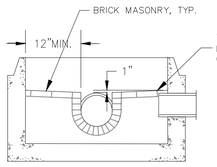

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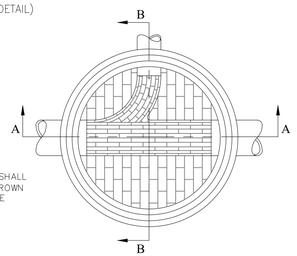
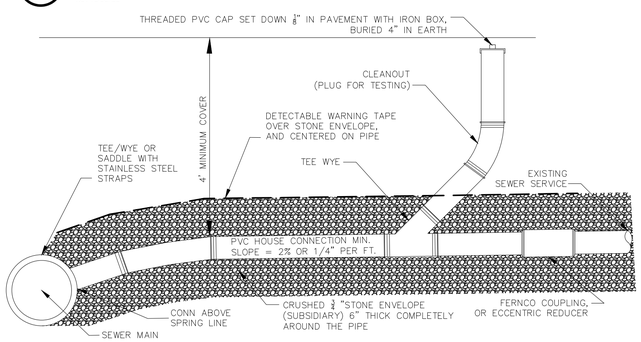


TYPICAL MANHOLE – PLAN VIEW

4 SEWER MANHOLE SHELF DETAIL

NOT TO SCALE



1.) GRAVITY SEWER SERVICE PIPE SHALL BE MINIMUM 4" INSIDE DIAMETER, SDR 35 PVC, WITH PUSH–ON, RUBBER GASKET JOINTS –OR– CLASS 52 CEMENT–LINED DUCTILE IRON PIPE. GLUED JOINTS ARE NOT PERMITTED.

2.) PRESSURE MAIN PIPE SHALL BE SDR 26 PVC (MIN. 160 PSI RATING) WITH PUSH ON, RUBBER GASKET JOINTS.

3.) A CLEAN–OUT IS REQUIRED AT: 90°, 45°, BENDS, WHERE MORE THAN ONE 22.5° BEND OR DEFLECTION IS INSTALLED; WHERE THE SERVICE EXCEEDS 90 FEET IN LENGTH; OR AS DIRECTED BY THE CITY ENGINEER.

4.) INSTALLER SHALL DETERMINE PIPE FLOW AT 1/4" PER FOOT 2% (MINIMUM SLOPE) TO ENSURE PROPER FUNCTION.

5.) ALL CONNECTION OF DISSIMILAR PIPE MATERIALS SHALL HAVE THE APPROPRIATELY SIZED "FERNCO" TYPE COUPLING. CONNECTION OF DISSIMILAR SIZES SHALL MAINTAIN THE INVERT ELEVATION WITH AN ECCENTRIC COUPLING.

6.) FOR CONNECTION TO SEWER MAINS, ONLY SADDLES OR WYES MAY BE USED.

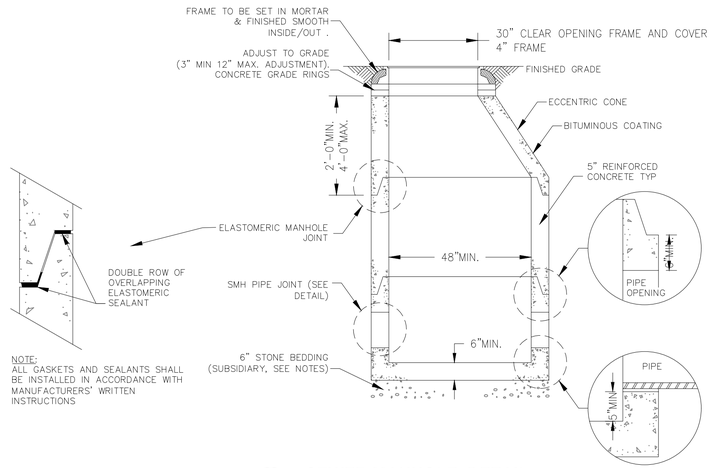
7.) ANY SERVICE CONNECTED TO A MANHOLE SHALL HAVE A BACKFLOW VALVE INSTALLED IN THE SERVICE LINE.

8.) TEN FEET OF HORIZONTAL SEPERATION DISTANCE SHALL BE MAINTAINED BETWEEN ALL DISSIMILAR UTILITIES.

9.) SEWER PIPE BEDDING SHALL BE 6" OF 3/4" WASHED STONE, AND A MINIMUM OF 6" 3/4" STONE COVER.

6 SEWER MANHOLE SHELF DETAIL

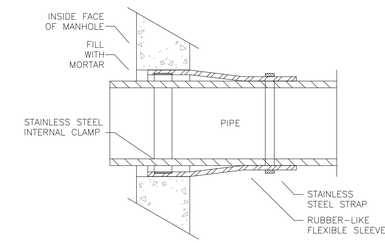
NOT TO SCALE



NOTE:
ALL GASKETS AND SEALANTS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' WRITTEN INSTRUCTIONS

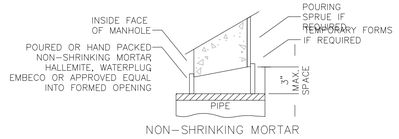
5 SEWER MANHOLE DETAIL

NOT TO SCALE



KOR–N–SEAL JOINT SLEEVE

NOTE:
ALL GASKETS, SEALANTS, MORTAR, ETC... SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' WRITTEN INSTRUCTIONS



NON–SHRINKING MORTAR

6 SEWER PIPE JOINT DETAIL

NOT TO SCALE

SEWER NOTES

1. SEWER MANHOLES AND ALL COMPONENT PARTS SHALL HAVE ADEQUATE SPACE, STRENGTH AND LEAKPROOF QUALITIES REQUIRED BY, AND SHALL BE CONSTRUCTED IN ACCORDANCE WITH, THE NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES (NHDES) CODE OF ADMINISTRATIVE RULES ENV––WQ 700.
2. MANHOLE BARREL SECTIONS BASES AND CONE SECTIONS SHALL BE CONSTRUCTED OF PRECAST STEEL REINFORCED CONCRETE CONFORMING TO ASTM C478.
3. HORIZONTAL JOINTS BETWEEN SECTIONS OF PRECAST CONCRETE BARRELS SHALL BE SEALED FOR WATER––TIGHTNESS USING AN OVERLAPPING DOUBLE ROW OF ELASTOMERIC OR MASTIC––LIKE SEALANT.
4. INVERTS AND SHELVES: MANHOLES SHALL HAVE A BRICK––PAVED SHELF AND INVERT, CONSTRUCTED TO CONFORM TO THE SIZE OF PIPE AND FLOW. CARE SHALL BE TAKEN TO INSURE THAT THE BRICK INVERT IS A SMOOTH CONTINUATION OF THE SEWER INVERT. INVERT BRICKS SHALL BE LAID ON EDGE. AT CHANGES IN DIRECTION, THE INVERTS SHALL BE LAID OUT IN CURVES OF THE LONGEST POSSIBLE TANGENT TO THE CENTER LINE OF THE SEWER PIPES. SHELVES SHALL BE CONSTRUCTED TO AN ELEVATION OF 1" ABOVE THE HIGHEST PIPE CROWN AND SLOPE TO DRAIN TOWARD THE CHANNEL. UNDERLAYMENT OF INVERT AND SHELF, AND ALL BRICK MASONRY FOR SHELF AND INVERTS SHALL COMPLY WITH ASTM 032, CLAY OR SHALE, FOR GRADE SS HARD BRICK.
5. FRAMS AND COVER SHALL BE OF HEAVY DUTY DESIGN AND PROVIDE A 30–INCH CLEAR OPENING. A 3–INCH (MINIMUM HEIGHT) WORD SEWER SHALL BE PLAINLY CAST INTO THE CENTER OF EACH COVER. ALL CASTINGS SHALL BE MANUFACTURED IN NORTH AMERICA.
6. BEDDING SHALL BE SCREENED GRAVEL AND/OR CRUSHED STONE FREE FROM CLAY, LOAM, ORGANIC MATTER AND MEETING ASTM C33 STONE SIZE NO. 67.

   100% PASSING 1 INCH SCREEN 0 –– 10% PASSING #4 SIEVE
   90 –– 100% PASSING 3/4 INCH SCREEN 0 –– 5% PASSING #8 SIEVE
   20 –– 55% PASSING 3/8 INCH SCREEN
   WHERE ORDERED BY THE ENGINEER TO STABILIZE THE BASE, USE 1––1/2 INCH SCREENED GRAVEL OR CRUSHED STONE SHALL BE USED.
7. SHALLOW MANHOLE: WHEN MANHOLE IS LESS THAN 6 FEET DEEP, A REINFORCED CONCRETE SLAB COVER HAVING AN ECCENTRIC ENTRANCE AND CAPABLE OF SUPPORTING H––20 LOADS MAY BE USED.
8. PIPE TO MANHOLE JOINTS SHALL BE ELASTOMERIC SEALING RING CAST IN THE MANHOLE OPENING WITH THE SEAL FORMED ON THE SURFACE OF THE PIPE BY A STAINLESS STEEL COMPRESSION RING.
9. FLEXIBLE PIPE JOINT: A FLEXIBLE JOINT SHALL BE PROVIDED WITHIN THE WITHIN 48 INCHES OF THE MANHOLE FOR RCP PIPE OR WITHIN 60 INCHES FOR PVC PIPE LARGER THAN 15––INCH DIAMETER. NO FLEXIBLE JOINT SHALL BE REQUIRED FOR DUCTILE IRON OR PVC PIPE UP TO 15––INCH DIAMETER. pIPE JOINTS TO BE SEAL WITH HYDRAULIC CEMENT INSIDE SMH AFTER TESTING
10. MANHOLE STEPS: NO MANHOLE STEPS ARE PERMITTED.
11. A LEAKAGE TEST SHALL BE PERFORMED IN ACCORDANCE WITH N.H. ENV––WQ 700. INVERT AND SHELF TO BE CONSTRUCTED AFTER LEAKAGE TEST.

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Title
SEWER DETAILS (SHEET 01 OF 01)

Project No.	Scale
179450806	NTS

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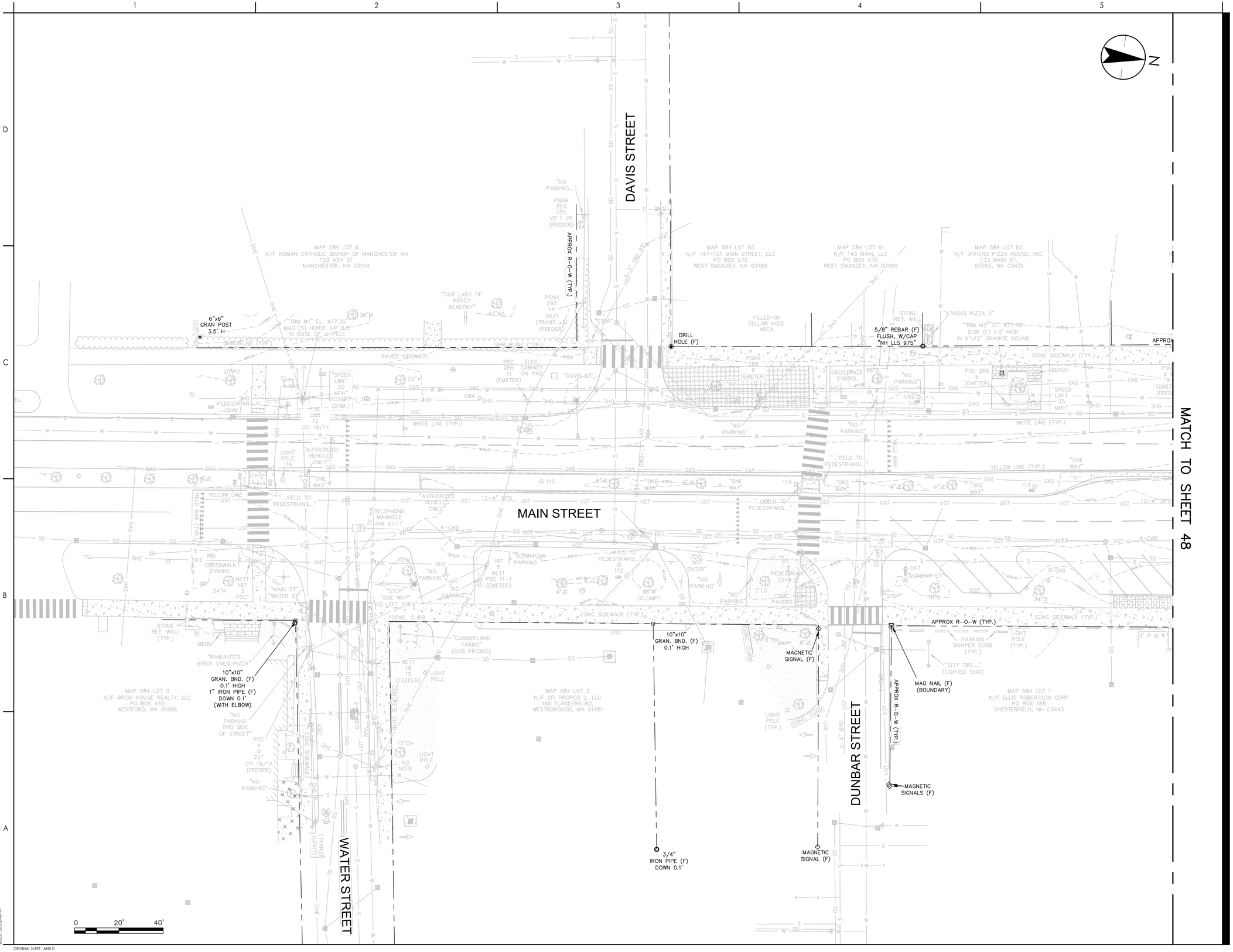

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Title
EXISTING CONDITIONS PLAN (SHEET 01 OF 06)

Project No.	Scale
179450806	1"=20'

Revision	Sheet	Drawing No.
0	47 of 232	EXC-01

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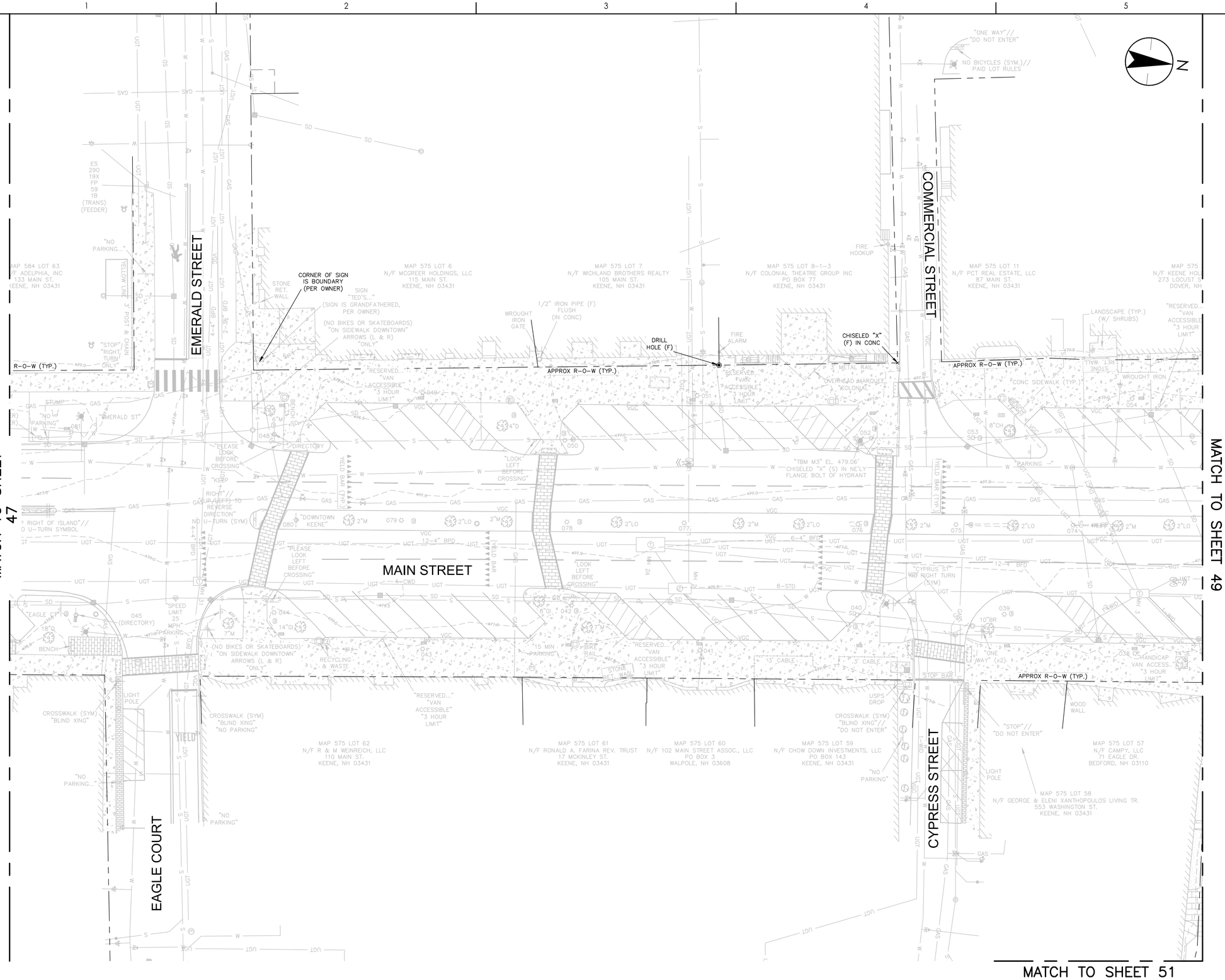

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Project No.	Scale
179450806	1"=20'

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0	48 of 232	EXC-02

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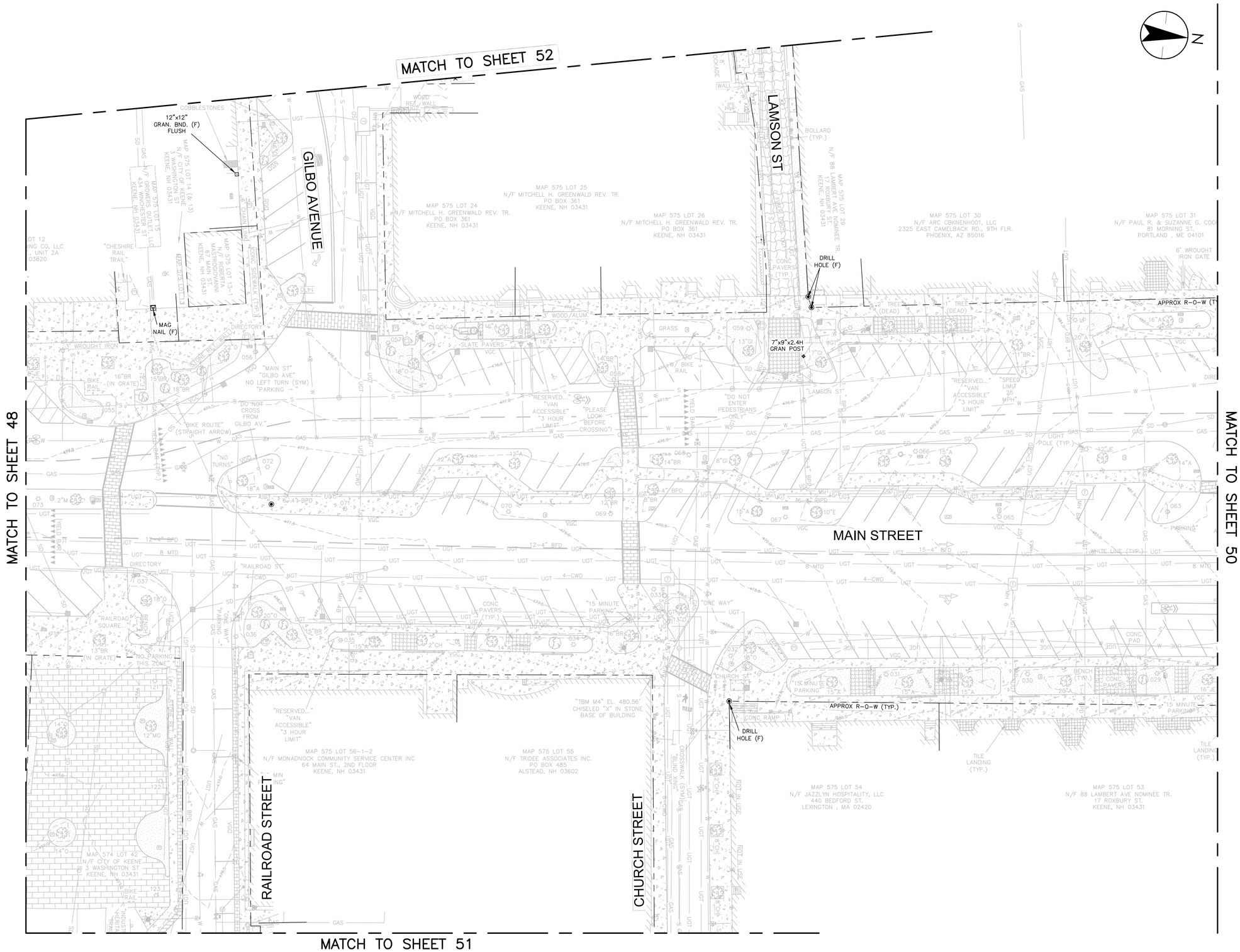

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EXISTING CONDITIONS PLAN (SHEET 03 OF 06)

Project No.	Scale
179450806	1"=20'

Revision	Sheet	Drawing No.
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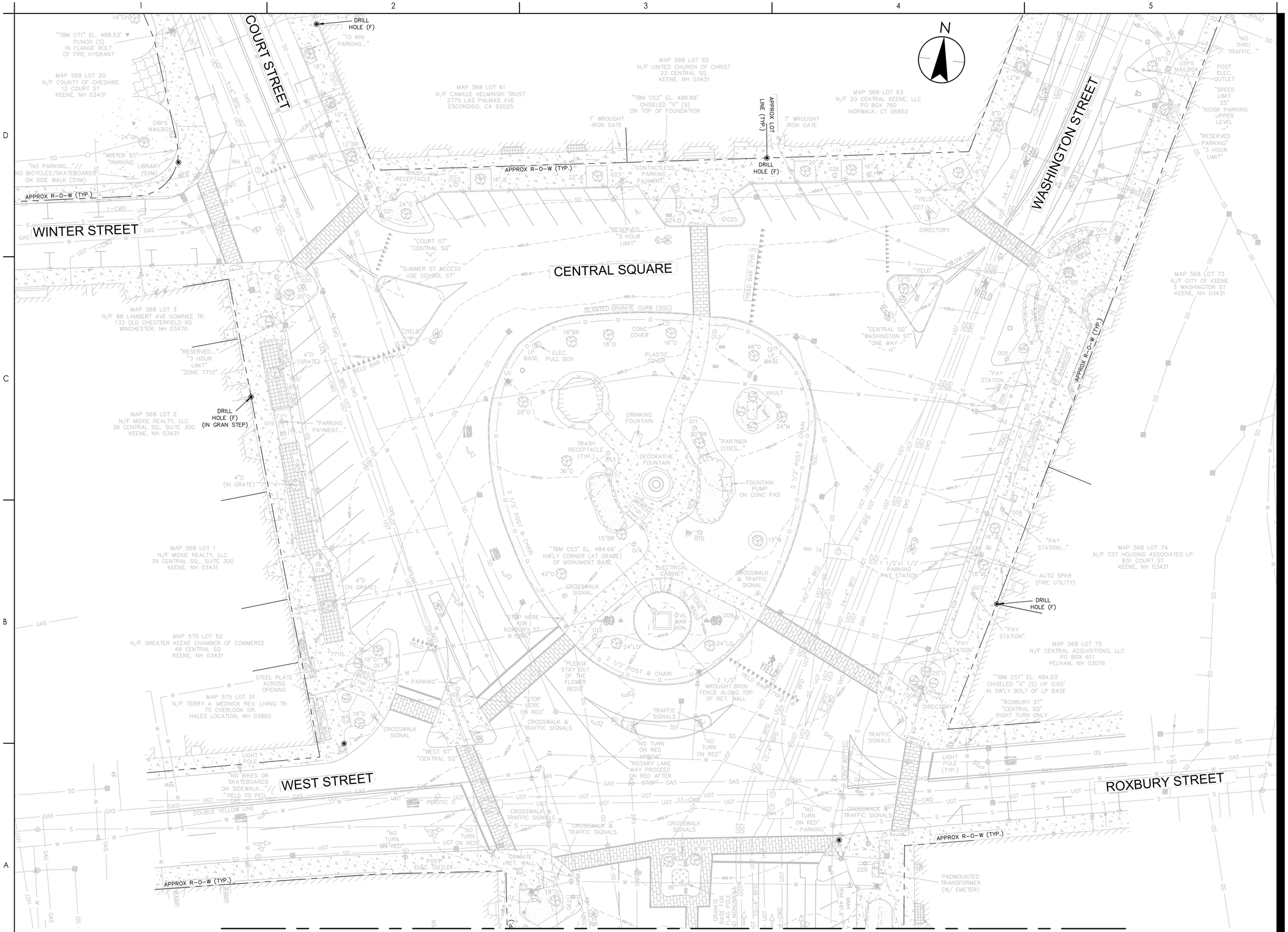

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EXISTING CONDITIONS PLAN
(SHEET 04 OF 06)

Project No.	Scale
179450806	1"=20'

Revision	Sheet	Drawing No.
0	50 of 232	EXC-04

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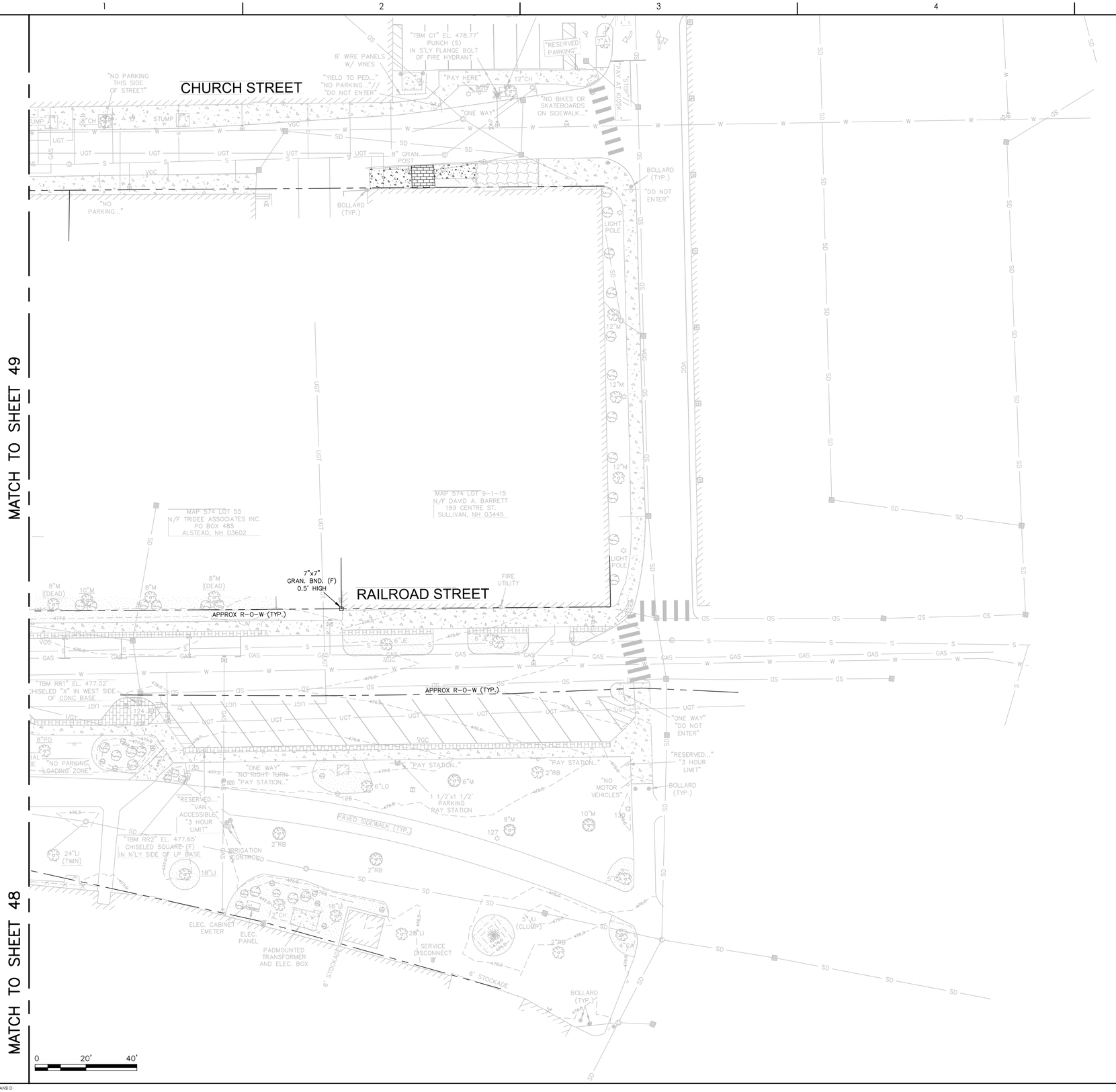

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(SHEET 05 OF 06)

Project No.	Scale
179450806	1"=20'

Revision	Sheet	Drawing No.
0	51 of 232	EXC-05

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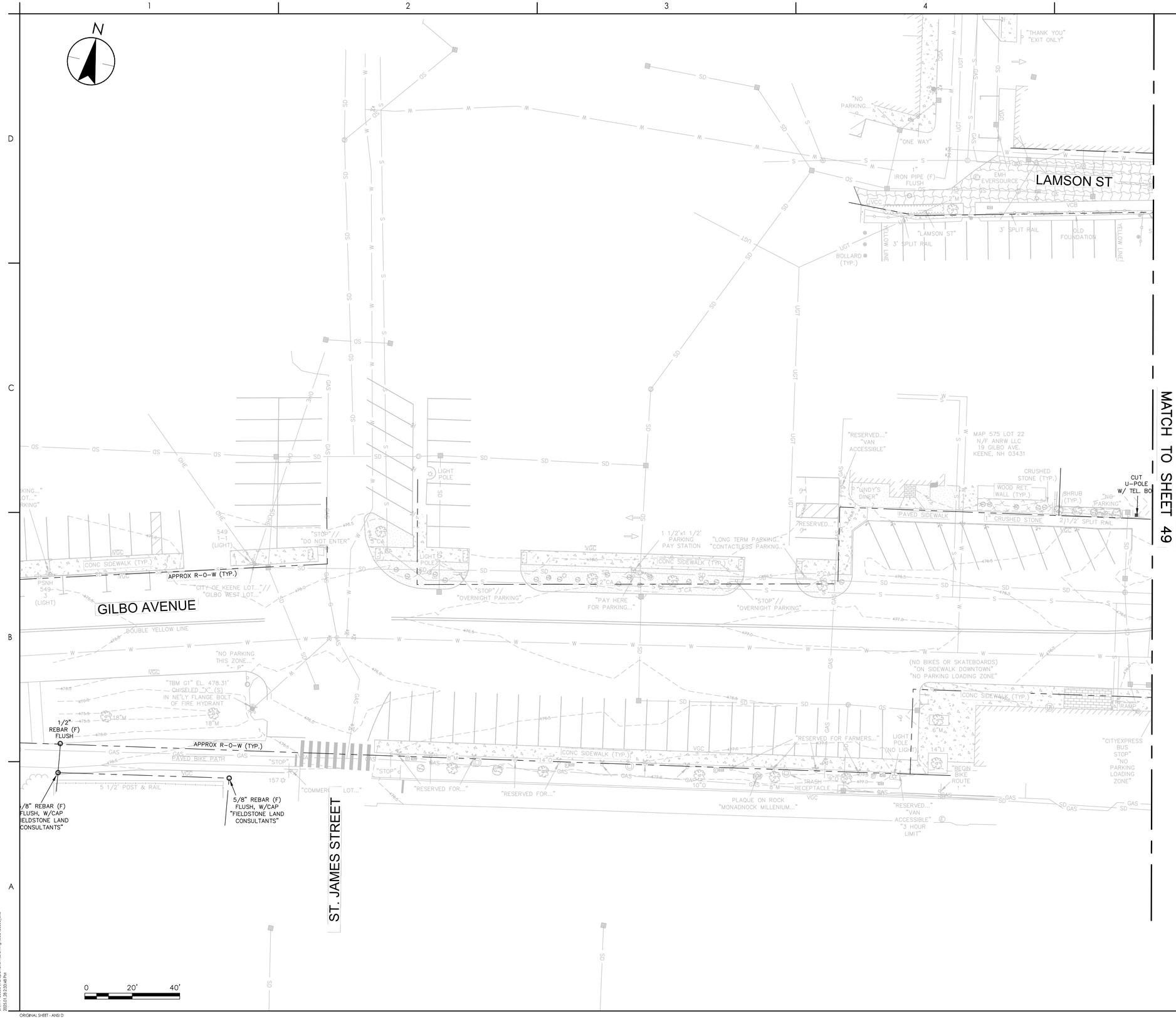

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KEENE DOWNTOWN IMPROVEMENTS

KEENE, NEW HAMPSHIRE

Title

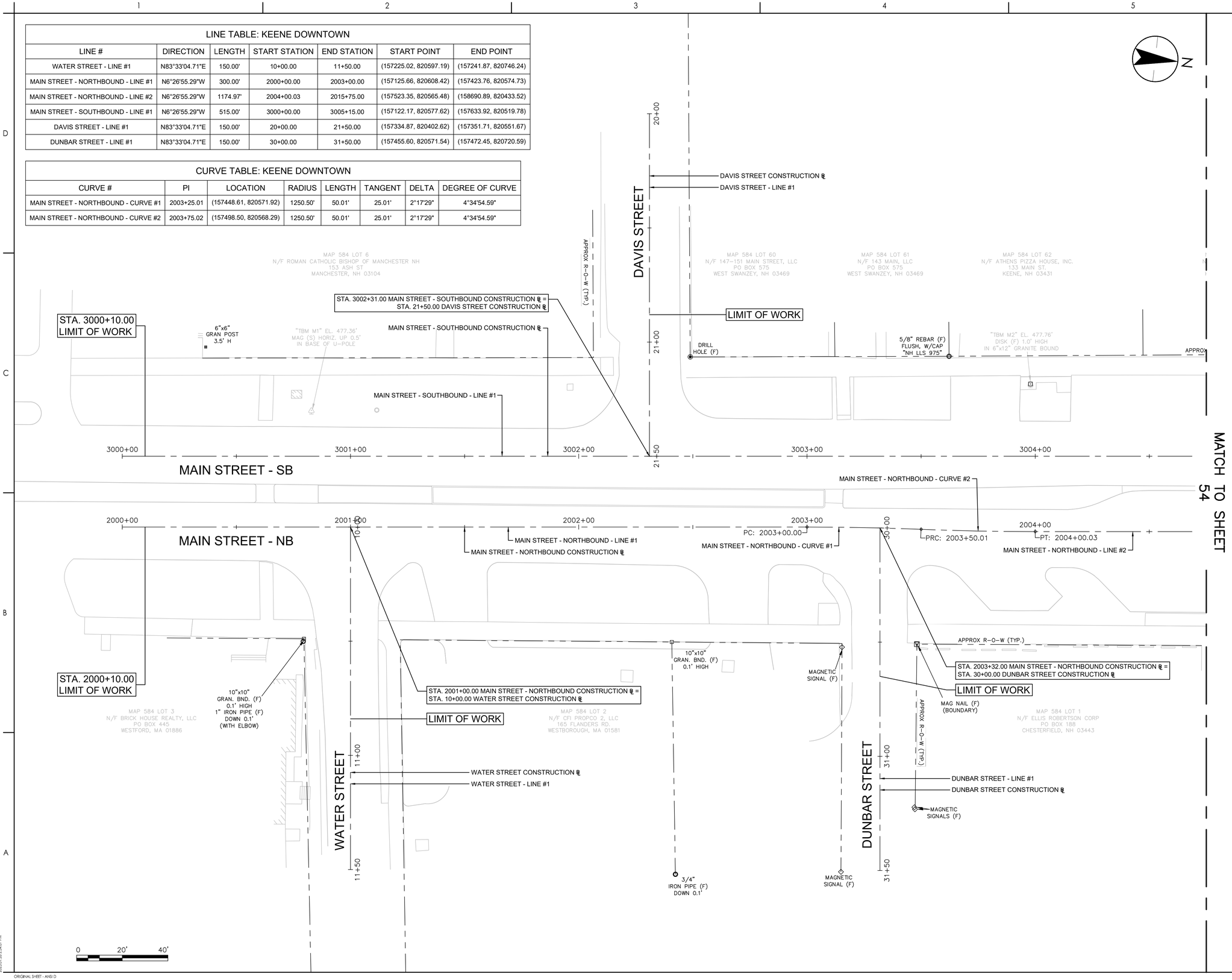
EXISTING CONDITIONS PLAN (SHEET 06 OF 06)

Project No.	Scale
179450806	1"=20'

Revision	Sheet	Drawing No.
0	52 of 232	EXC-06

LINE TABLE: KEENE DOWNTOWN						
LINE #	DIRECTION	LENGTH	START STATION	END STATION	START POINT	END POINT
WATER STREET - LINE #1	N83°33'04.71"E	150.00'	10+00.00	11+50.00	(157225.02, 820597.19)	(157241.87, 820746.24)
MAIN STREET - NORTHBOUND - LINE #1	N6°26'55.29"W	300.00'	2000+00.00	2003+00.00	(157125.66, 820608.42)	(157423.76, 820574.73)
MAIN STREET - NORTHBOUND - LINE #2	N6°26'55.29"W	1174.97'	2004+00.03	2015+75.00	(157523.35, 820565.48)	(158690.89, 820433.52)
MAIN STREET - SOUTHBOUND - LINE #1	N6°26'55.29"W	515.00'	3000+00.00	3005+15.00	(157122.17, 820577.62)	(157633.92, 820519.78)
DAVIS STREET - LINE #1	N83°33'04.71"E	150.00'	20+00.00	21+50.00	(157334.87, 820402.62)	(157351.71, 820551.67)
DUNBAR STREET - LINE #1	N83°33'04.71"E	150.00'	30+00.00	31+50.00	(157455.60, 820571.54)	(157472.45, 820720.59)

CURVE TABLE: KEENE DOWNTOWN							
CURVE #	PI	LOCATION	RADIUS	LENGTH	TANGENT	DELTA	DEGREE OF CURVE
MAIN STREET - NORTHBOUND - CURVE #1	2003+25.01	(157448.61, 820571.92)	1250.50'	50.01'	25.01'	2°17'29"	4°34'54.59"
MAIN STREET - NORTHBOUND - CURVE #2	2003+75.02	(157498.50, 820568.29)	1250.50'	50.01'	25.01'	2°17'29"	4°34'54.59"



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Revision	By	Appd	YYYY-MM-DD

Issued	By	Appd	YYYY-MM-DD

File Name: 50806_ALI	XXX	TJG	DEM	2025-01-28
	Dwn.	Dsgn.	Chkd.	YYYY-MM-DD

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Client/Project
CITY OF KEENE

KEENE DOWNTOWN IMPROVEMENTS

KEENE, NEW HAMPSHIRE

Title
ALIGNMENT PLAN
(SHEET 01 OF 06)

Project No.	Scale
179450806	1"=20'

Revision	Sheet	Drawing No.
0	53 of 232	**ALI-01**

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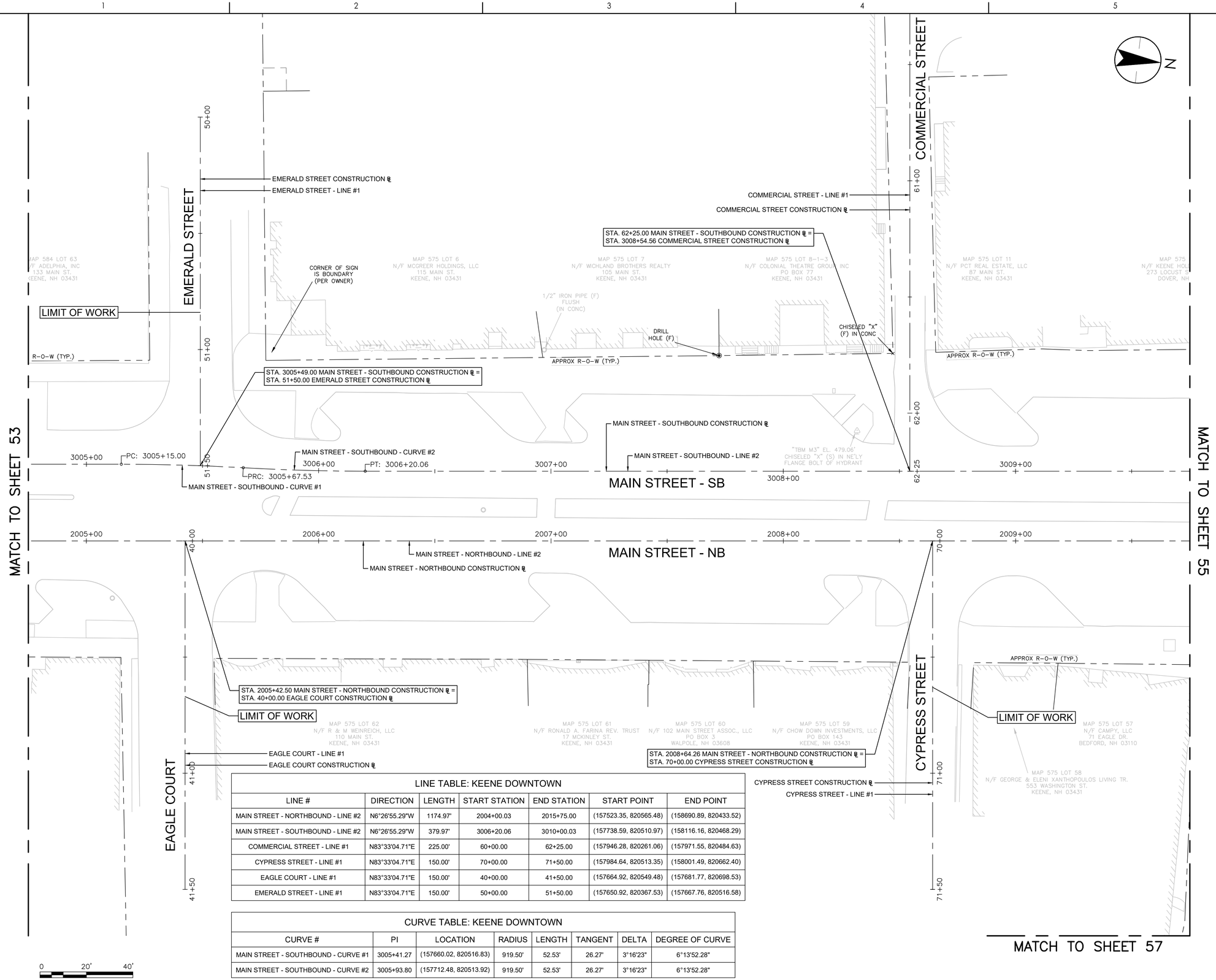

LINE TABLE: KEENE DOWNTOWN						
LINE #	DIRECTION	LENGTH	START STATION	END STATION	START POINT	END POINT
MAIN STREET - NORTHBOUND - LINE #2	N6°26'55.29"W	1174.97'	2004+00.03	2015+75.00	(157523.35, 820565.48)	(158690.89, 820433.52)
MAIN STREET - SOUTHBOUND - LINE #2	N6°26'55.29"W	379.97'	3006+20.06	3010+00.03	(157738.59, 820510.97)	(158116.16, 820468.29)
COMMERCIAL STREET - LINE #1	N83°33'04.71"E	225.00'	60+00.00	62+25.00	(157946.28, 820261.06)	(157971.55, 820484.63)
CYPRESS STREET - LINE #1	N83°33'04.71"E	150.00'	70+00.00	71+50.00	(157984.64, 820513.35)	(158001.49, 820662.40)
EAGLE COURT - LINE #1	N83°33'04.71"E	150.00'	40+00.00	41+50.00	(157664.92, 820549.48)	(157681.77, 820698.53)
EMERALD STREET - LINE #1	N83°33'04.71"E	150.00'	50+00.00	51+50.00	(157650.92, 820367.53)	(157667.76, 820516.58)

CURVE TABLE: KEENE DOWNTOWN							
CURVE #	PI	LOCATION	RADIUS	LENGTH	TANGENT	DELTA	DEGREE OF CURVE
MAIN STREET - SOUTHBOUND - CURVE #1	3005+41.27	(157660.02, 820516.83)	919.50'	52.53'	26.27'	3°16'23"	6°13'52.28"
MAIN STREET - SOUTHBOUND - CURVE #2	3005+93.80	(157712.48, 820513.92)	919.50'	52.53'	26.27'	3°16'23"	6°13'52.28"

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KEENE DOWNTOWN IMPROVEMENTS

KEENE, NEW HAMPSHIRE

Title
ALIGNMENT PLAN
(SHEET 02 OF 06)

Project No.	Scale
179450806	1"=20'
Revision: 0	Sheet: 54 of 232
Drawing No.	**ALI-02**

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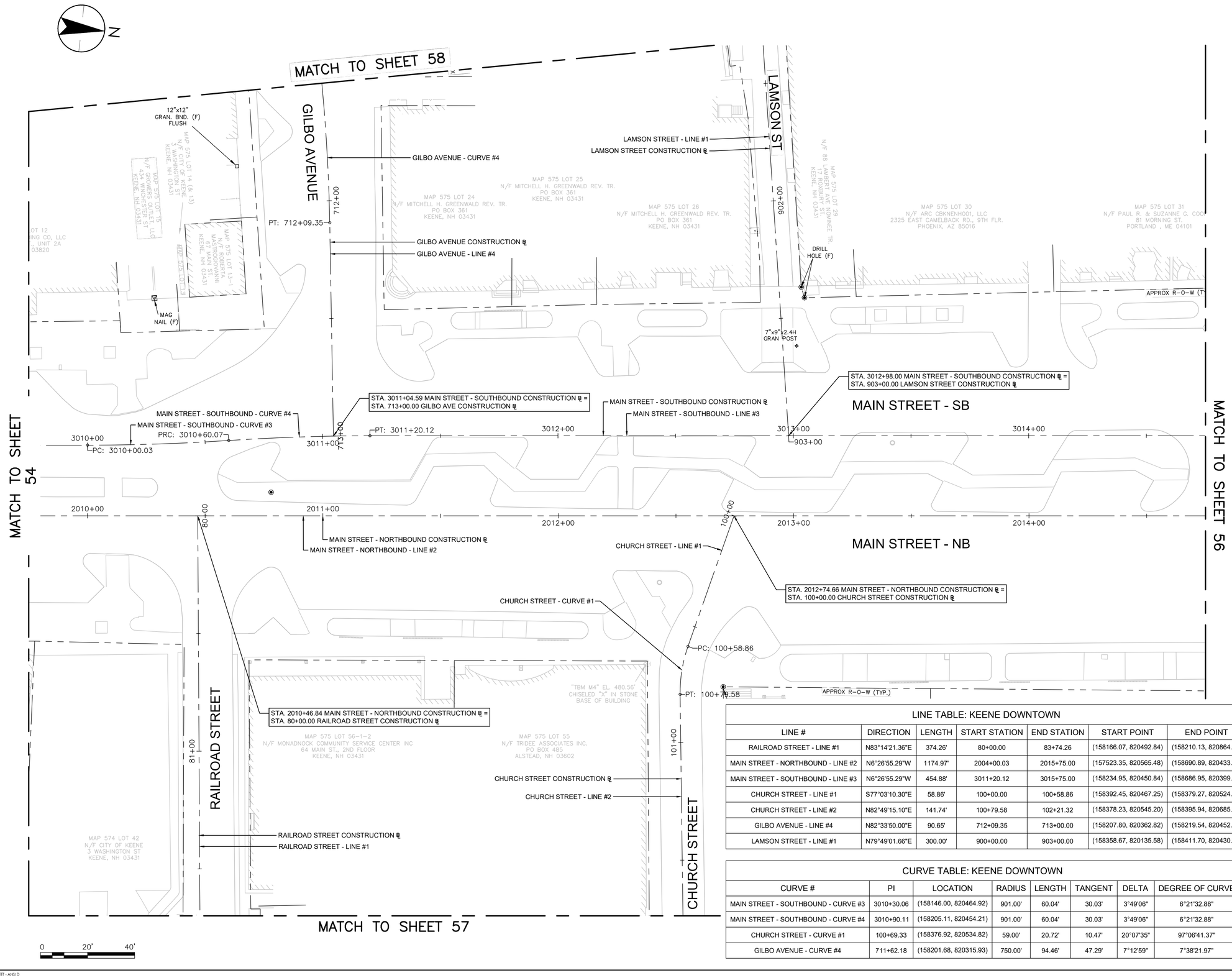

LINE TABLE: KEENE DOWNTOWN						
LINE #	DIRECTION	LENGTH	START STATION	END STATION	START POINT	END POINT
RAILROAD STREET - LINE #1	N83°14'21.36"E	374.26'	80+00.00	83+74.26	(158166.07, 820492.84)	(158210.13, 820864.49)
MAIN STREET - NORTHBOUND - LINE #2	N6°26'55.29"W	1174.97'	2004+00.03	2015+75.00	(157523.35, 820565.48)	(158690.89, 820433.52)
MAIN STREET - SOUTHBOUND - LINE #3	N6°26'55.29"W	454.88'	3011+20.12	3015+75.00	(158234.95, 820450.84)	(158686.95, 820399.75)
CHURCH STREET - LINE #1	S77°03'10.30"E	58.86'	100+00.00	100+58.86	(158392.45, 820467.25)	(158379.27, 820524.61)
CHURCH STREET - LINE #2	N82°49'15.10"E	141.74'	100+79.58	102+21.32	(158378.23, 820545.20)	(158395.94, 820685.84)
GILBO AVENUE - LINE #4	N82°33'50.00"E	90.65'	712+09.35	713+00.00	(158207.80, 820362.82)	(158219.54, 820452.71)
LAMSON STREET - LINE #1	N79°49'01.66"E	300.00'	900+00.00	903+00.00	(158358.67, 820135.58)	(158411.70, 820430.86)

CURVE TABLE: KEENE DOWNTOWN							
CURVE #	PI	LOCATION	RADIUS	LENGTH	TANGENT	DELTA	DEGREE OF CURVE
MAIN STREET - SOUTHBOUND - CURVE #3	3010+30.06	(158146.00, 820464.92)	901.00'	60.04'	30.03'	3°49'06"	6°21'32.88"
MAIN STREET - SOUTHBOUND - CURVE #4	3010+90.11	(158205.11, 820454.21)	901.00'	60.04'	30.03'	3°49'06"	6°21'32.88"
CHURCH STREET - CURVE #1	100+69.33	(158376.92, 820534.82)	59.00'	20.72'	10.47'	20°07'35"	97°06'41.37"
GILBO AVENUE - CURVE #4	711+62.18	(158201.68, 820315.93)	750.00'	94.46'	47.29'	7°12'59"	7°38'21.97"

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KEENE DOWNTOWN IMPROVEMENTS

KEENE, NEW HAMPSHIRE

Title
ALIGNMENT PLAN
(SHEET 03 OF 06)

Project No. 179450806
Scale 1"=20'
Revision 0
Sheet 55 of 232
Drawing No. **ALI-03**

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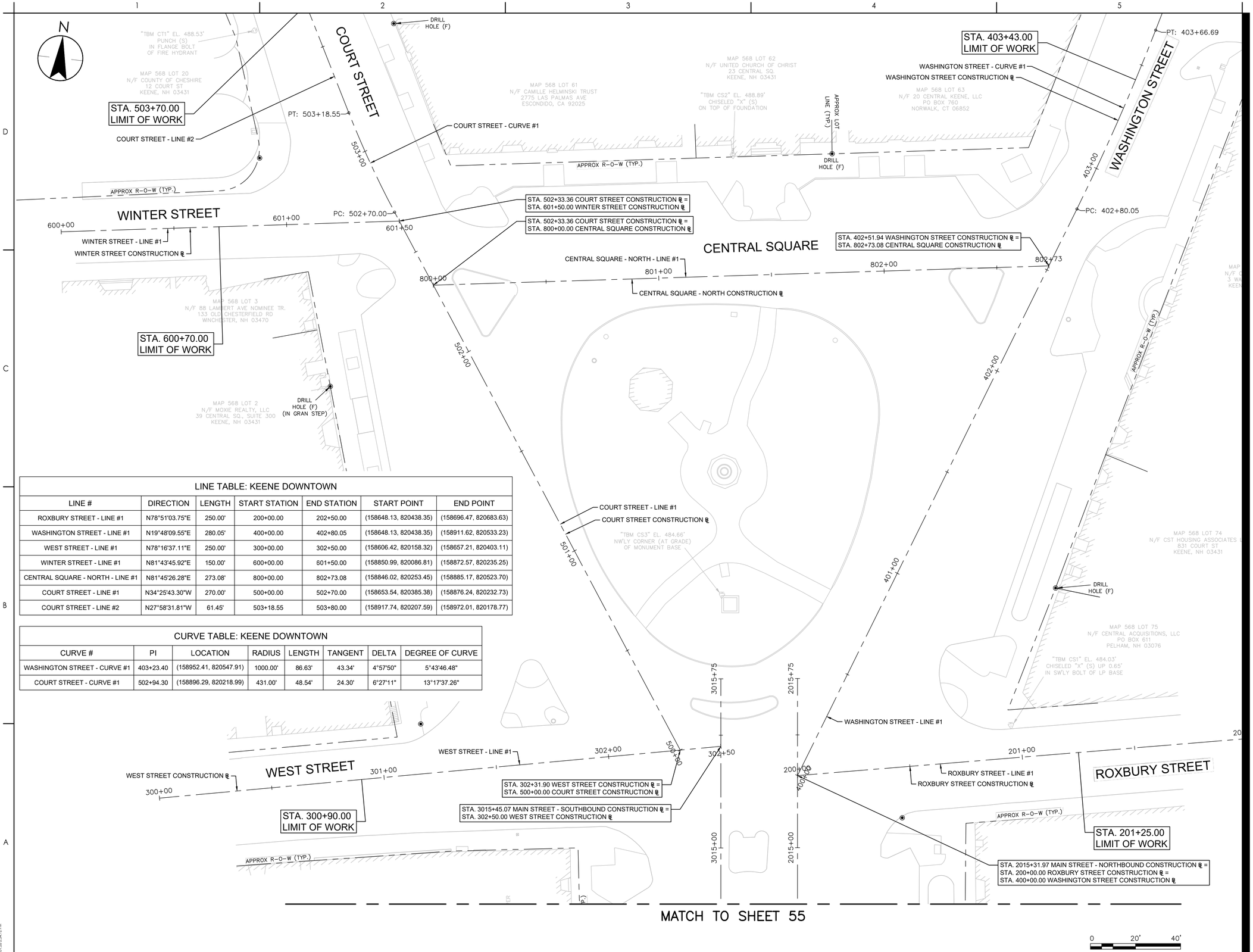
ORIGINAL SHEET - ANSI D



LINE TABLE: KEENE DOWNTOWN						
LINE #	DIRECTION	LENGTH	START STATION	END STATION	START POINT	END POINT
ROXBURY STREET - LINE #1	N78°51'03.75"E	250.00'	200+00.00	202+50.00	(158648.13, 820438.35)	(158696.47, 820683.63)
WASHINGTON STREET - LINE #1	N19°48'09.55"E	280.05'	400+00.00	402+80.05	(158648.13, 820438.35)	(158911.62, 820533.23)
WEST STREET - LINE #1	N78°16'37.11"E	250.00'	300+00.00	302+50.00	(158606.42, 820158.32)	(158657.21, 820403.11)
WINTER STREET - LINE #1	N81°43'45.92"E	150.00'	600+00.00	601+50.00	(158850.99, 820086.81)	(158872.57, 820235.25)
CENTRAL SQUARE - NORTH - LINE #1	N81°45'26.28"E	273.08'	800+00.00	802+73.08	(158846.02, 820253.45)	(158885.17, 820523.70)
COURT STREET - LINE #1	N34°25'43.30"W	270.00'	500+00.00	502+70.00	(158653.54, 820385.38)	(158876.24, 820232.73)
COURT STREET - LINE #2	N27°58'31.81"W	61.45'	503+18.55	503+80.00	(158917.74, 820207.59)	(158972.01, 820178.77)

CURVE TABLE: KEENE DOWNTOWN							
CURVE #	PI	LOCATION	RADIUS	LENGTH	TANGENT	DELTA	DEGREE OF CURVE
WASHINGTON STREET - CURVE #1	403+23.40	(158952.41, 820547.91)	1000.00'	86.63'	43.34'	4°57'50"	5°43'46.48"
COURT STREET - CURVE #1	502+94.30	(158896.29, 820218.99)	431.00'	48.54'	24.30'	6°27'11"	13°17'37.26"

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KEENE DOWNTOWN IMPROVEMENTS

KEENE, NEW HAMPSHIRE

Title
ALIGNMENT PLAN
(SHEET 04 OF 06)

Project No.	Scale
179450806	1"=20'

Revision	Sheet	Drawing No.
0	56 of 232	ALI-04

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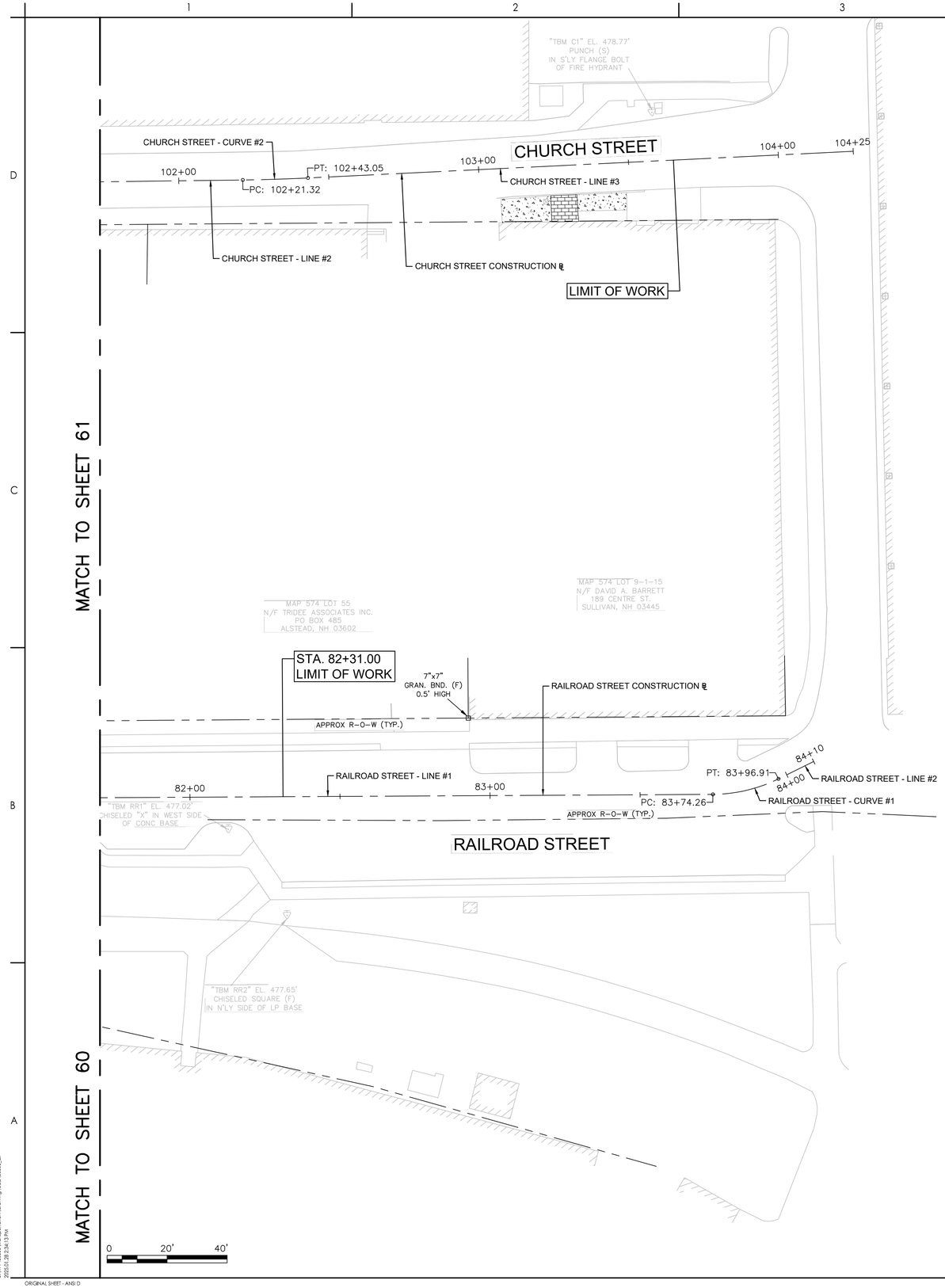

LINE TABLE: KEENE DOWNTOWN						
LINE #	DIRECTION	LENGTH	START STATION	END STATION	START POINT	END POINT
RAILROAD STREET - LINE #1	N83°14'21.36"E	374.26'	80+00.00	83+74.26	(158166.07, 820492.84)	(158210.13, 820864.49)
RAILROAD STREET - LINE #2	N57°17'07.36"E	13.09'	83+96.91	84+10.00	(158217.71, 820885.63)	(158224.79, 820896.65)
CHURCH STREET - LINE #2	N82°49'15.10"E	141.74'	100+79.58	102+21.32	(158378.23, 820545.20)	(158395.94, 820685.84)
CHURCH STREET - LINE #3	N80°44'45.23"E	181.95'	102+43.05	104+25.00	(158399.05, 820707.34)	(158428.31, 820886.92)

CURVE TABLE: KEENE DOWNTOWN							
CURVE #	PI	LOCATION	RADIUS	LENGTH	TANGENT	DELTA	DEGREE OF CURVE
RAILROAD STREET - CURVE #1	83+85.78	(158211.48, 820875.94)	50.00'	22.65'	11.52'	25°57'14"	114°35'29.61"
CHURCH STREET - CURVE #2	102+32.19	(158397.30, 820696.62)	600.00'	21.73'	10.87'	2°04'30"	9°32'57.47"

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KEENE DOWNTOWN IMPROVEMENTS

KEENE, NEW HAMPSHIRE

Title
ALIGNMENT PLAN
(SHEET 05 OF 06)

Project No.
179450806

Scale
1"=20'

Revision
0

Sheet
57 of 232

Drawing No.
ALI-05

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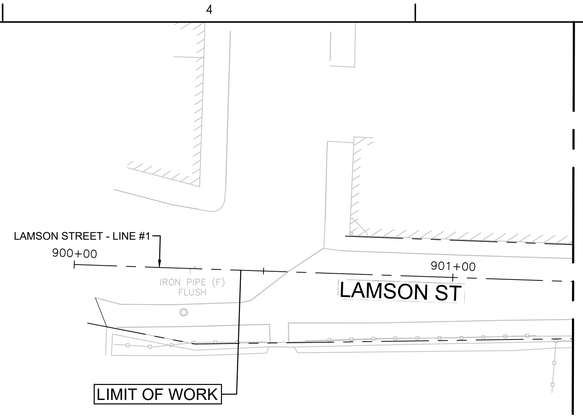
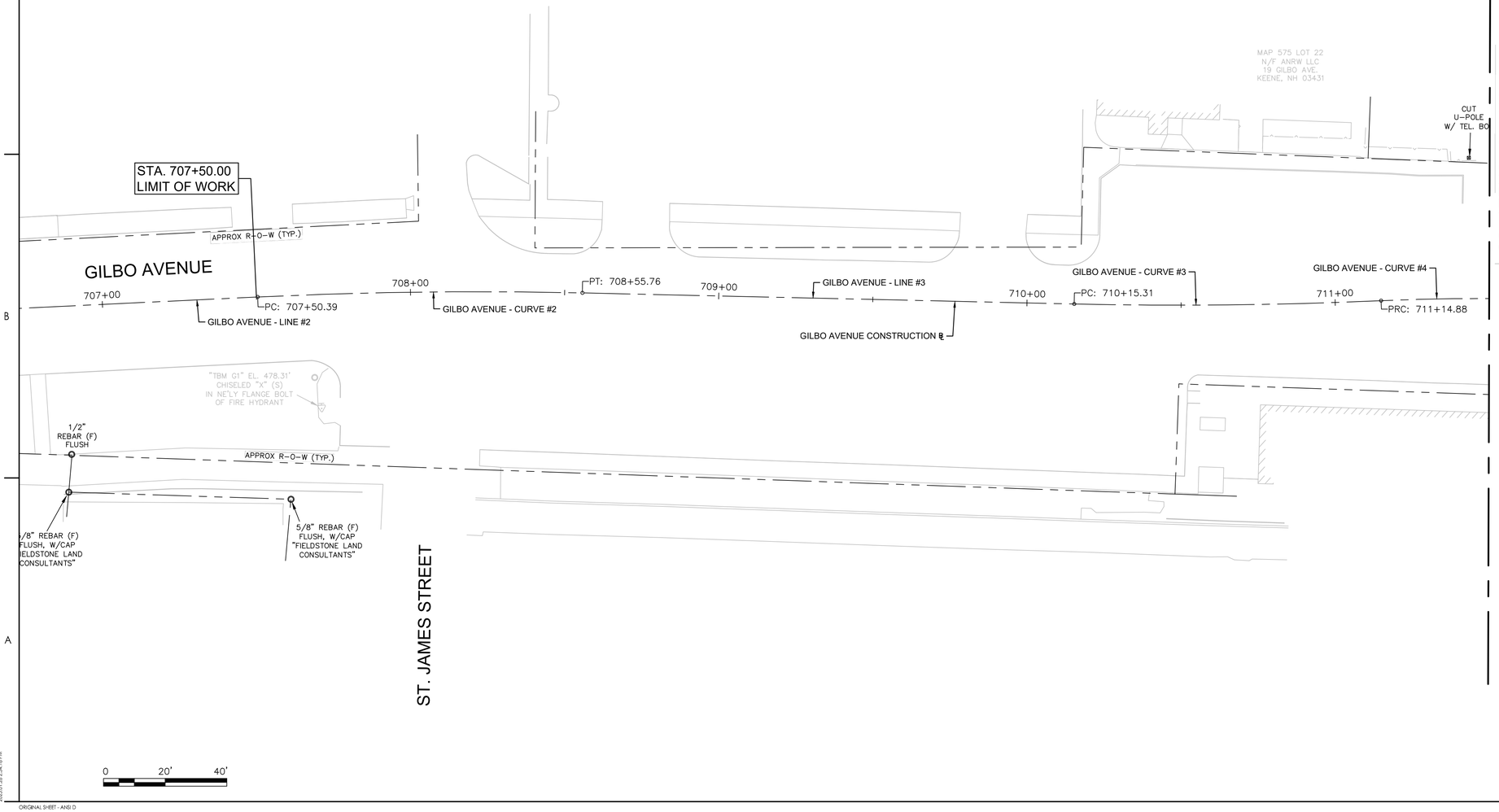
ORIGINAL SHEET - ANSI D

LINE TABLE: KEENE DOWNTOWN						
LINE #	DIRECTION	LENGTH	START STATION	END STATION	START POINT	END POINT
GILBO AVENUE - LINE #2	N75°07'33.06"E	272.64'	704+77.75	707+50.39	(158044.28, 819650.16)	(158114.26, 819913.67)
GILBO AVENUE - LINE #3	N79°09'02.36"E	159.55'	708+55.76	710+15.31	(158137.71, 820016.37)	(158167.75, 820173.07)
LAMSON STREET - LINE #1	N79°49'01.66"E	300.00'	900+00.00	903+00.00	(158358.67, 820135.58)	(158411.70, 820430.86)

CURVE TABLE: KEENE DOWNTOWN							
CURVE #	PI	LOCATION	RADIUS	LENGTH	TANGENT	DELTA	DEGREE OF CURVE
GILBO AVENUE - CURVE #2	708+03.10	(158127.79, 819964.61)	1500.00'	105.37'	52.71'	4°01'29"	3°49'10.99"
GILBO AVENUE - CURVE #3	710+65.12	(158177.12, 820221.99)	1500.00'	99.57'	49.80'	3°48'12"	3°49'10.99"
GILBO AVENUE - CURVE #4	711+62.18	(158201.68, 820315.93)	750.00'	94.46'	47.29'	7°12'59"	7°38'21.97"





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KEENE DOWNTOWN IMPROVEMENTS

KEENE, NEW HAMPSHIRE

Title
ALIGNMENT PLAN
(SHEET 06 OF 06)

Project No.
179450806

Scale
1"=20'

Revision
0

Sheet
58 of 232

Drawing No.
ALI-06

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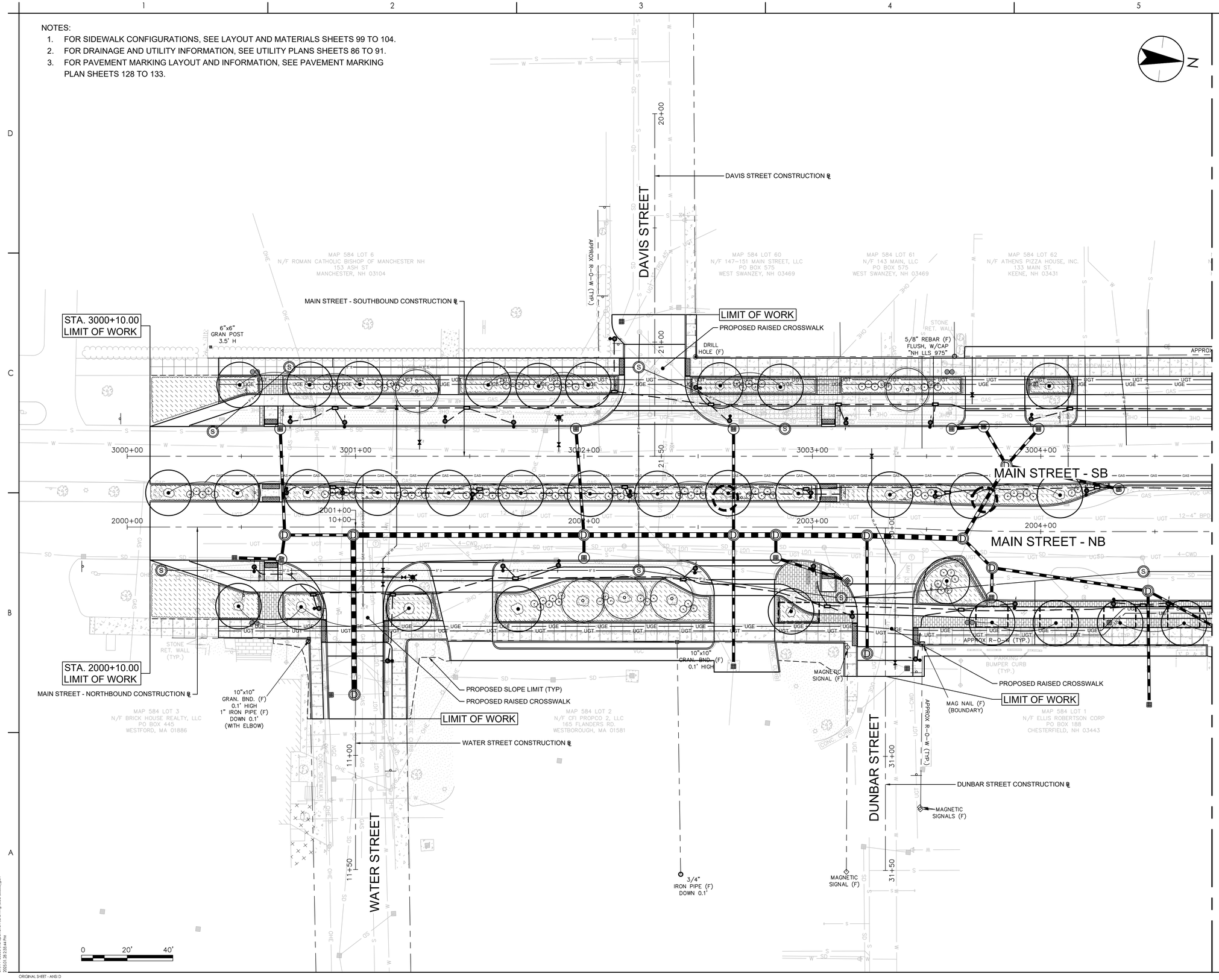
ORIGINAL SHEET - ANSI D

NOTES:

1. FOR SIDEWALK CONFIGURATIONS, SEE LAYOUT AND MATERIALS SHEETS 99 TO 104.
2. FOR DRAINAGE AND UTILITY INFORMATION, SEE UTILITY PLANS SHEETS 86 TO 91.
3. FOR PAVEMENT MARKING LAYOUT AND INFORMATION, SEE PAVEMENT MARKING PLAN SHEETS 128 TO 133.



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KEENE DOWNTOWN IMPROVEMENTS

KEENE, NEW HAMPSHIRE

Title
GENERAL PLAN
(SHEET 01 OF 06)

Project No.	Scale
179450806	1"=20'

Revision	Sheet	Drawing No.
0	59 of 232	GEN-01

ORIGINAL SHEET - ANSI D

NOTES:

1. FOR SIDEWALK CONFIGURATIONS, SEE LAYOUT AND MATERIALS SHEETS 99 TO 104.
2. FOR DRAINAGE AND UTILITY INFORMATION, SEE UTILITY PLANS SHEETS 86 TO 91.
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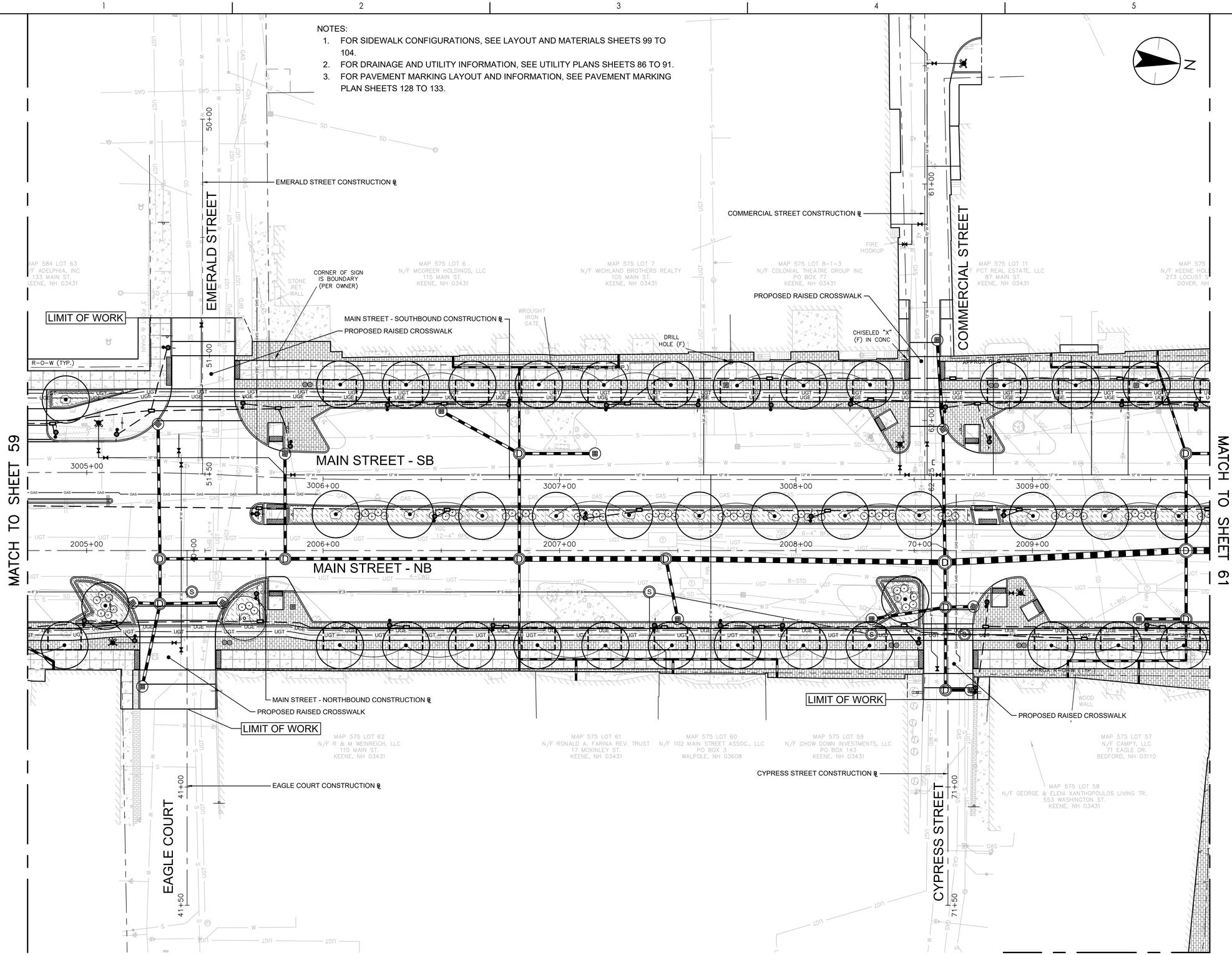

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KEENE DOWNTOWN IMPROVEMENTS

KEENE, NEW HAMPSHIRE

Title
GENERAL PLAN
(SHEET 02 OF 06)

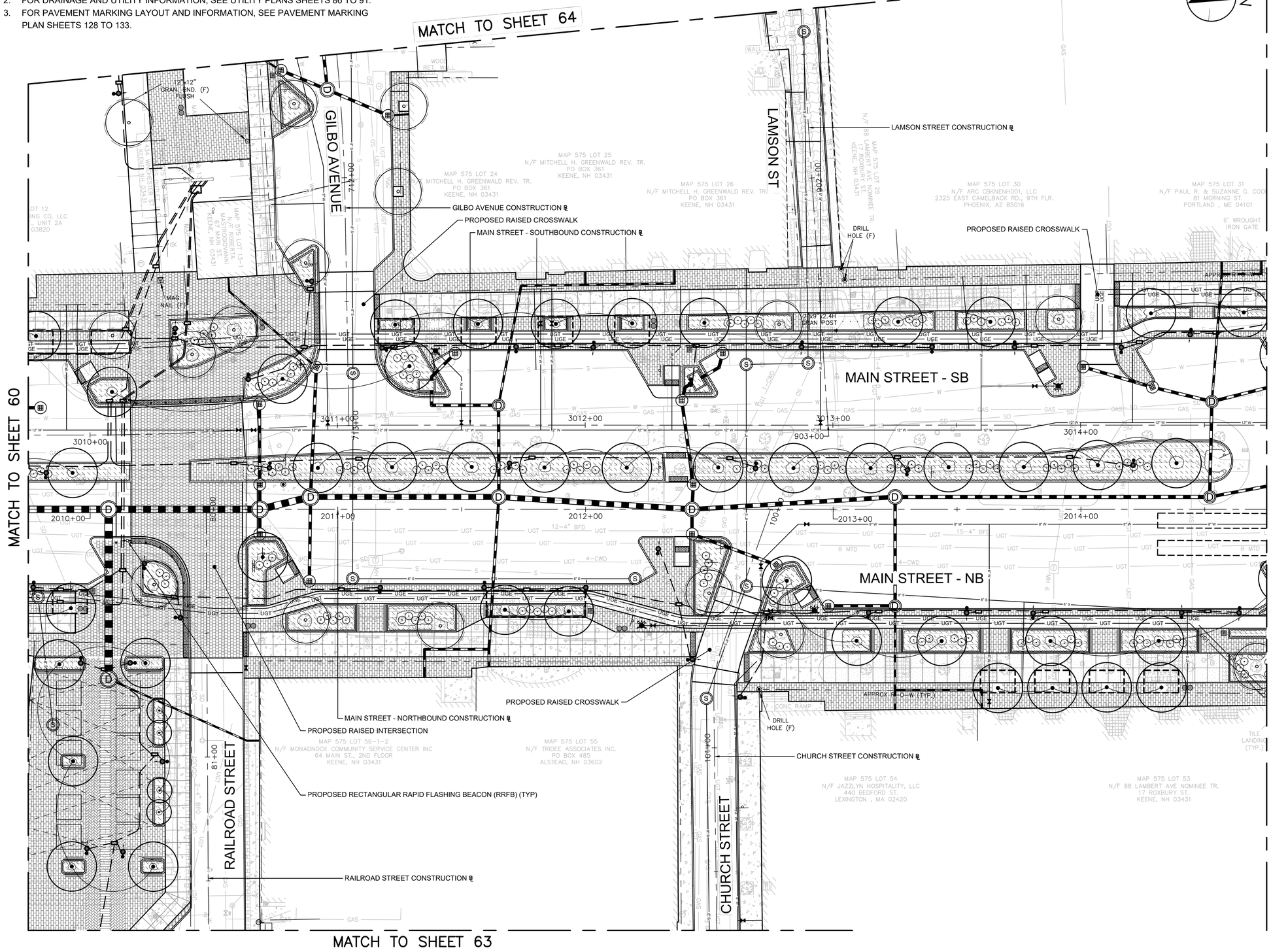
Project No.	Scale
179450806	1"=20'
Revision: 0	Sheet: 60 of 232
	Drawing No. GEN-02

\\179450806\transportation\drawing\cad\50806_gen 2025.01.28 2:34:33 PM

ORIGINAL SHEET - ANSI D

NOTES:

1. FOR SIDEWALK CONFIGURATIONS, SEE LAYOUT AND MATERIALS SHEETS 99 TO 104.
2. FOR DRAINAGE AND UTILITY INFORMATION, SEE UTILITY PLANS SHEETS 86 TO 91.
3. FOR PAVEMENT MARKING LAYOUT AND INFORMATION, SEE PAVEMENT MARKING PLAN SHEETS 128 TO 133.



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KEENE, NEW HAMPSHIRE

Title
GENERAL PLAN
(SHEET 03 OF 06)

Project No.
179450806

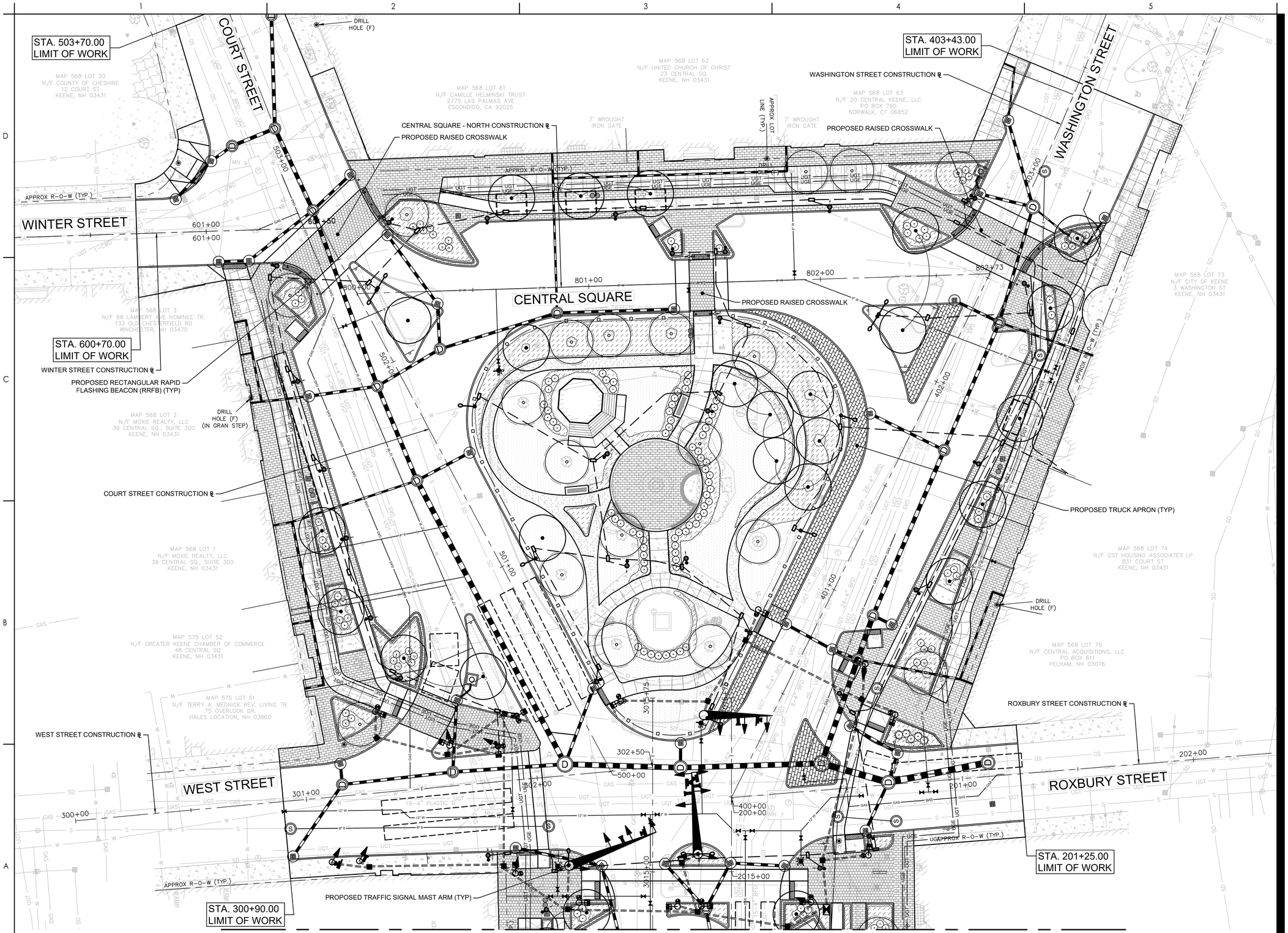
Scale
1"=20'

Revision
0

Sheet
61 of 232

Drawing No.
GEN-03

ORIGINAL SHEET - ANSI D



NOTES:

1. FOR SIDEWALK CONFIGURATIONS, SEE LAYOUT AND MATERIALS SHEETS 99 TO 104.
2. FOR DRAINAGE AND UTILITY INFORMATION, SEE UTILITY PLANS SHEETS 86 TO 91.
3. FOR PAVEMENT MARKING LAYOUT AND INFORMATION, SEE PAVEMENT MARKING PLAN SHEETS 128 TO 133.

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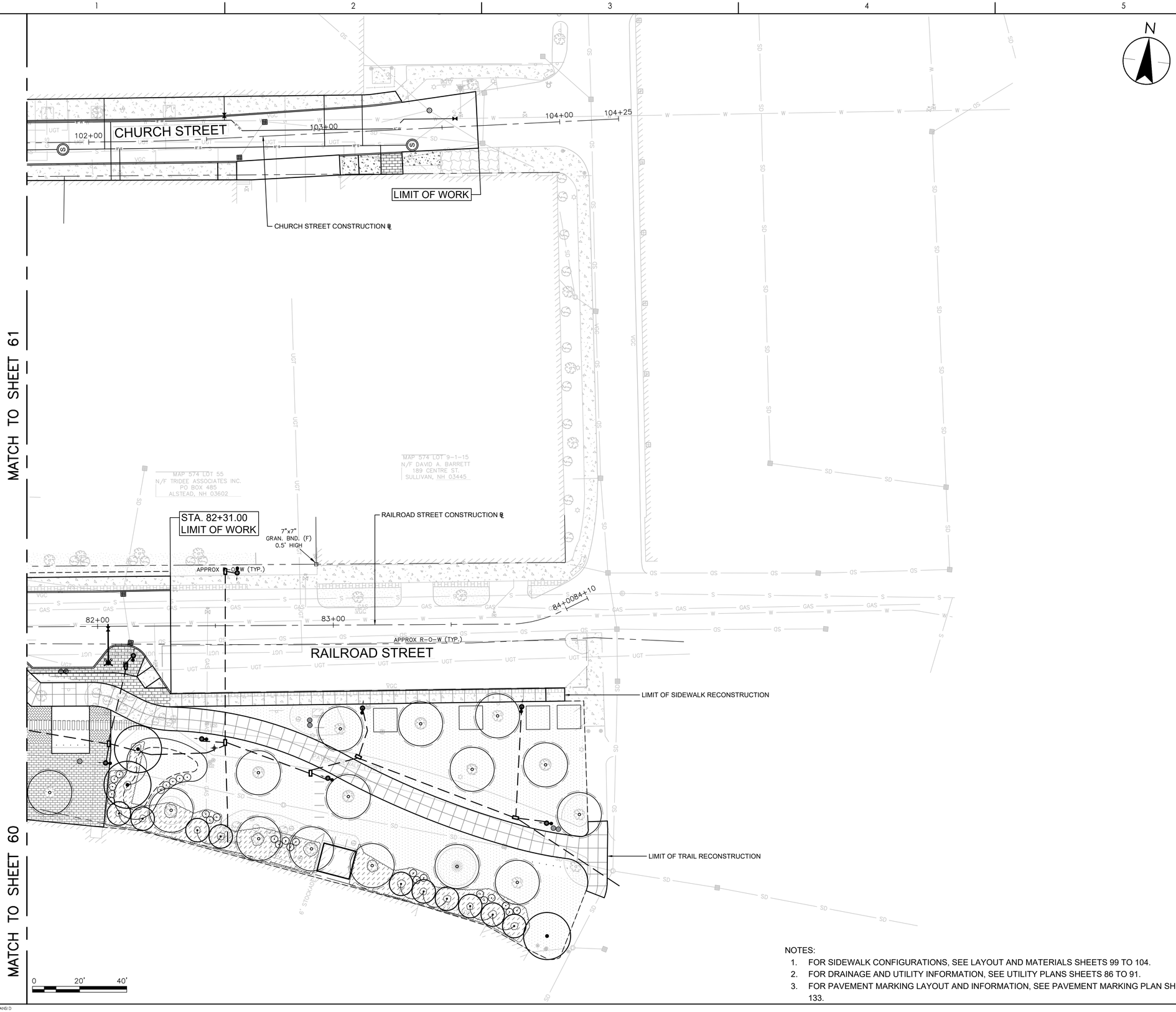
Title
GENERAL PLAN
(SHEET 04 OF 06)

Project No.	Scale
179450806	1"=20'

Revision	Sheet	Drawing No.
0	62 of 232	GEN-04



NOTES:

1. FOR SIDEWALK CONFIGURATIONS, SEE LAYOUT AND MATERIALS SHEETS 99 TO 104.
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Title
GENERAL PLAN
(SHEET 05 OF 06)

Project No.	Scale
179450806	1"=20'

Revision	Sheet	Drawing No.
0	63 of 232	GEN-05

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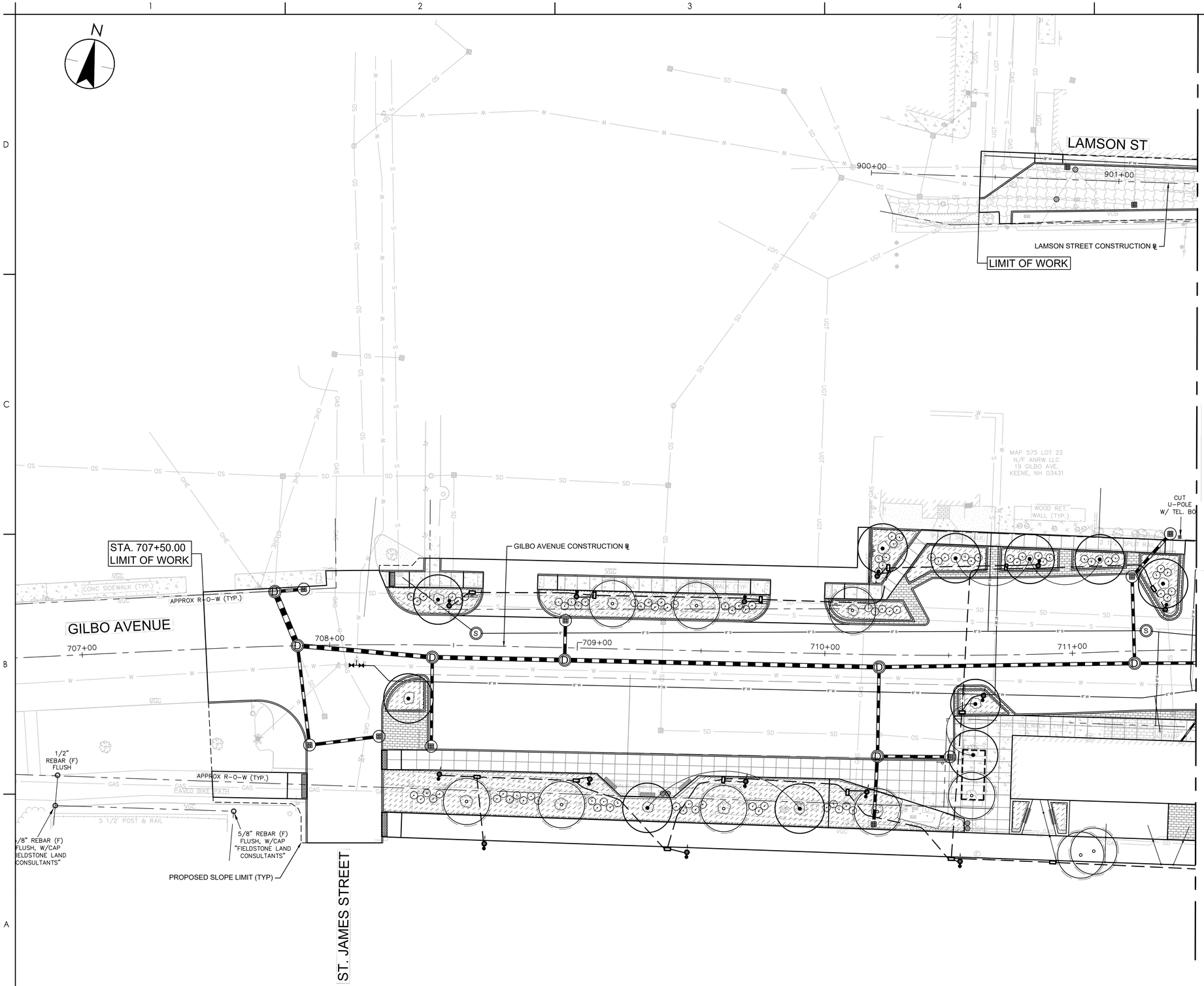

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Title
GENERAL PLAN
(SHEET 06 OF 06)

Project No.	Scale
179450806	1"=20'

Revision	Sheet	Drawing No.
0	64 of 232	GEN-06

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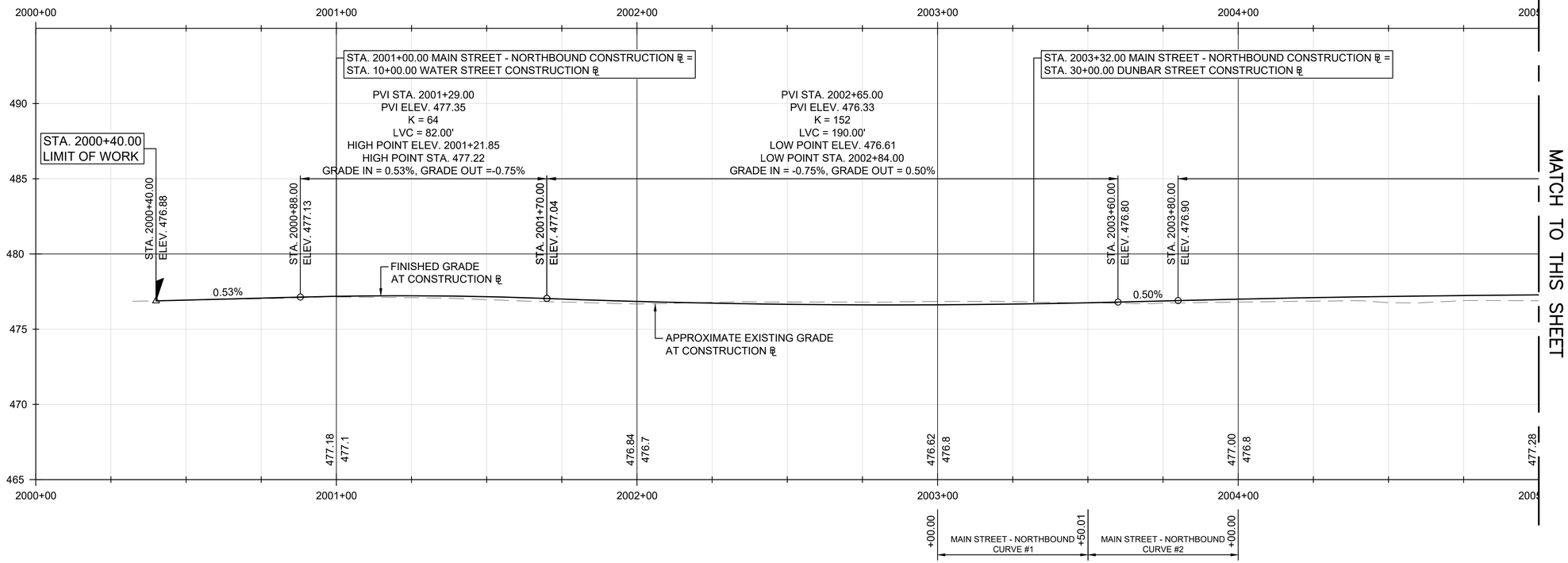
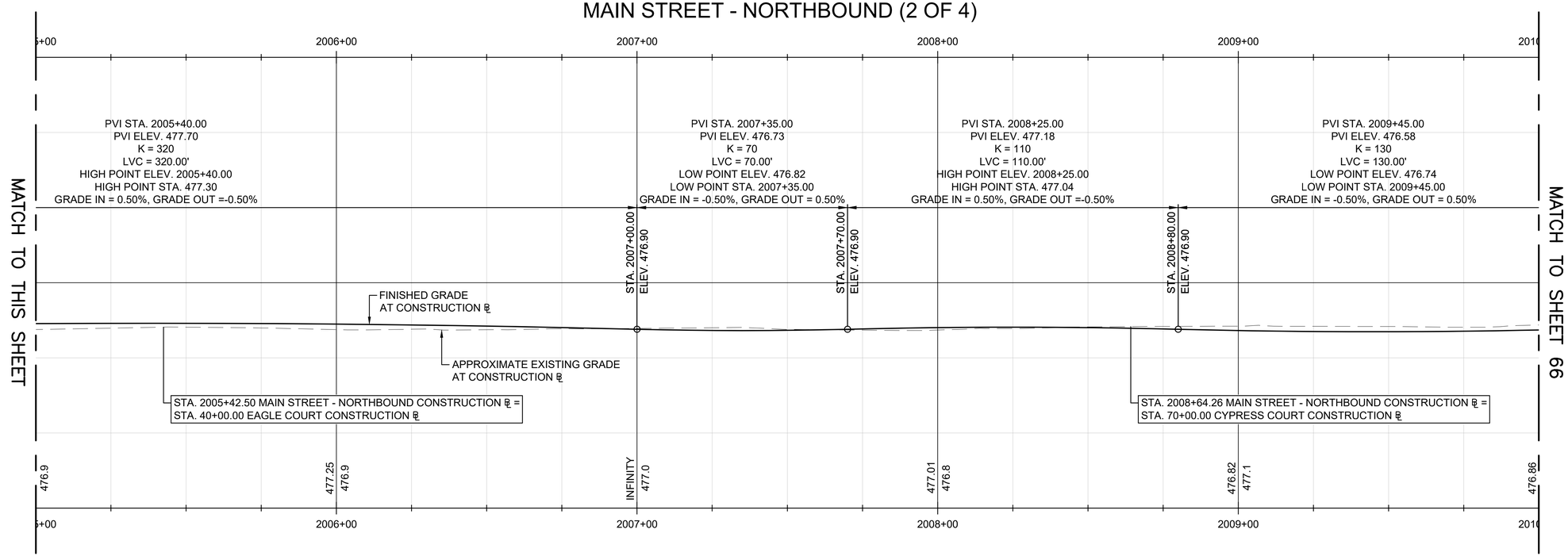
ORIGINAL SHEET - ANSI D

MAIN STREET - NORTHBOUND (1 OF 4)



MAIN STREET - NORTHBOUND (2 OF 4)



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Title
ROADWAY PROFILES
(SHEET 01 OF 12)

Project No.	Scale
179450806	H: 1"=20' V: 1"=4'

Revision	Sheet	Drawing No.
0	65 of 232	PRO-01

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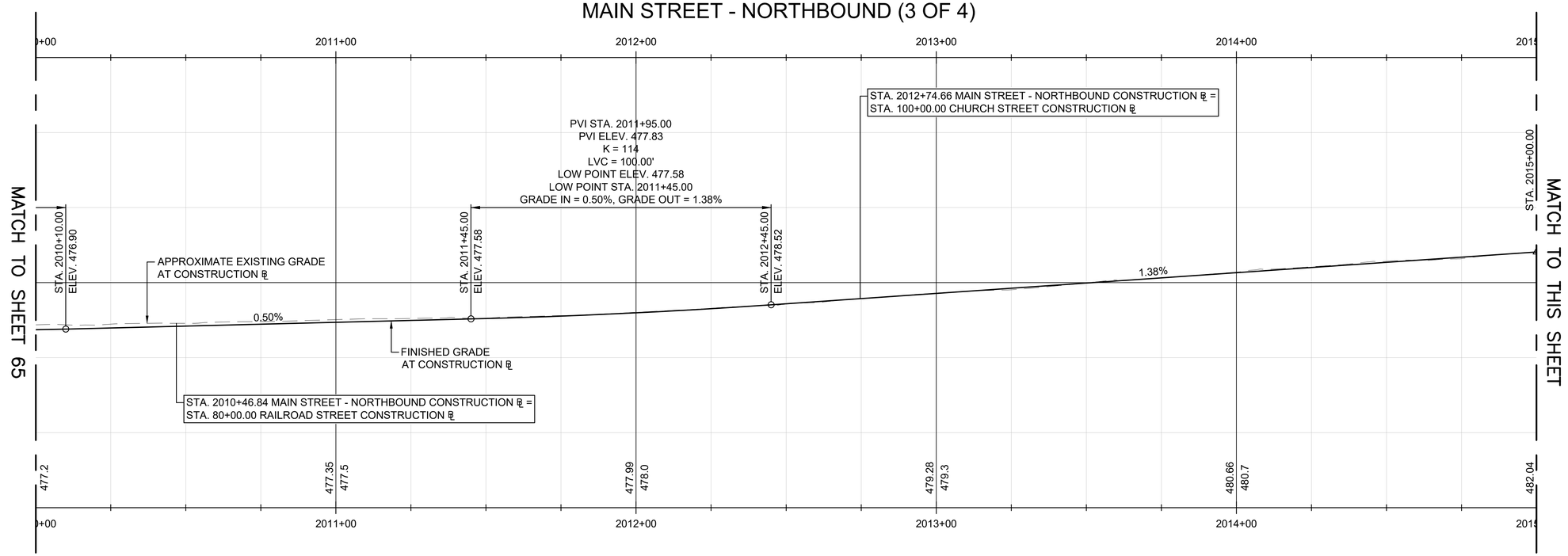
ORIGINAL SHEET - ANSI D

MAIN STREET - NORTHBOUND (3 OF 4)



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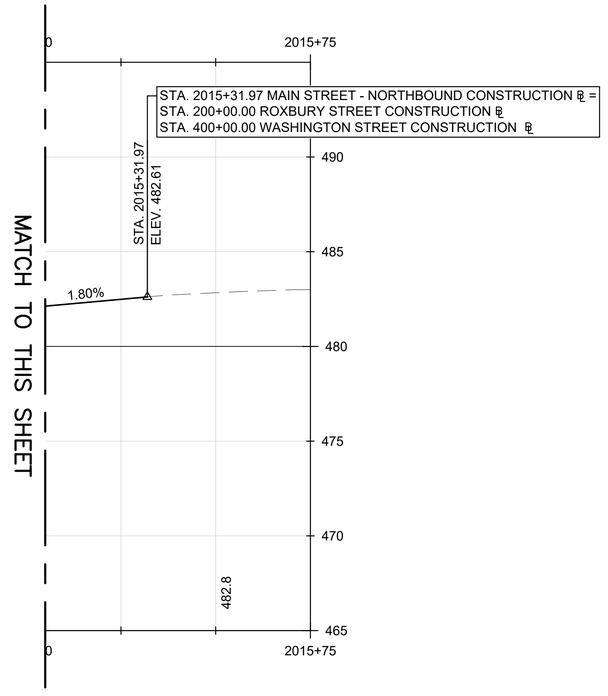

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Title
ROADWAY PROFILES
(SHEET 02 OF 12)

Project No.	Scale
179450806	H: 1"=20' V: 1"=4'

Revision	Sheet	Drawing No.
0	66 of 232	PRO-02

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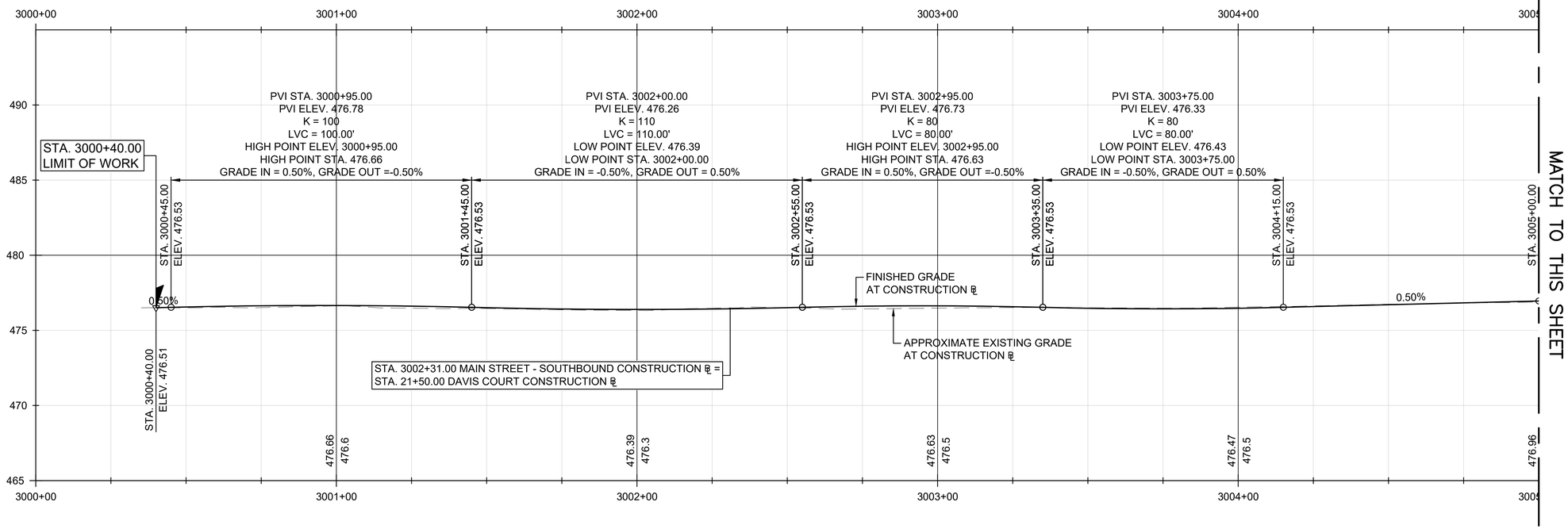
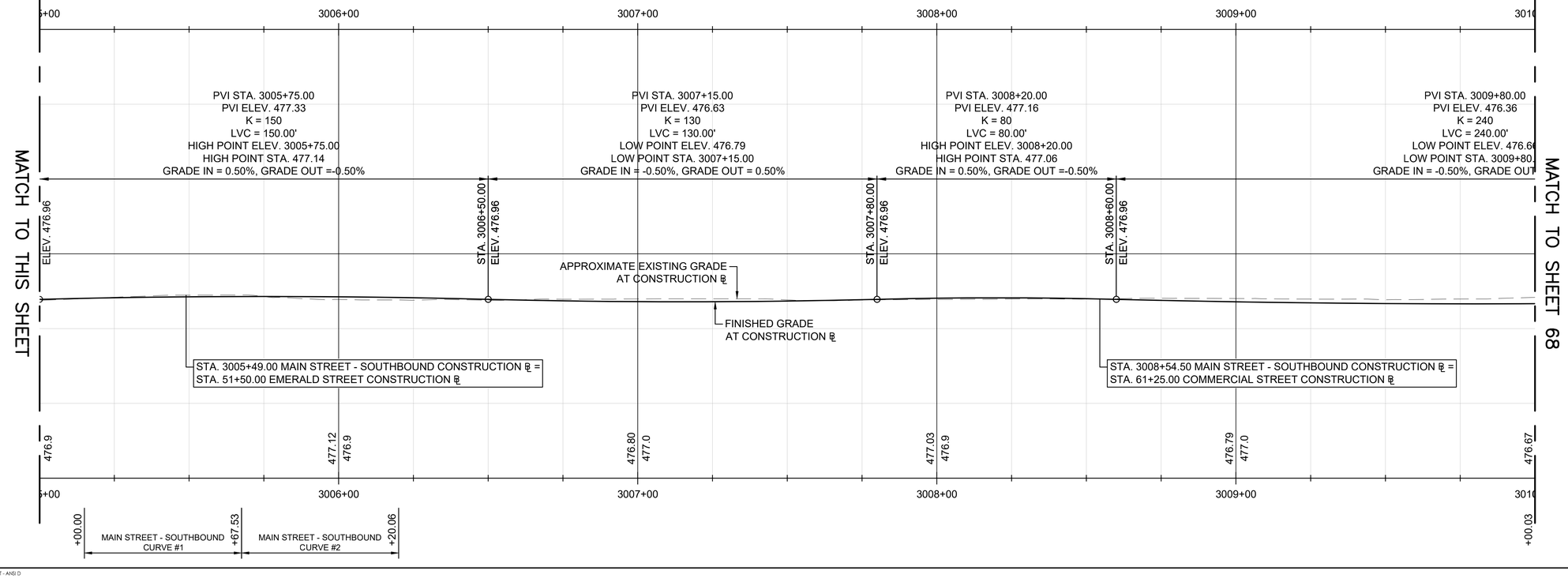
ORIGINAL SHEET - ANSI D

MAIN STREET - SOUTHBOUND (1 OF 4)



MAIN STREET - SOUTHBOUND (2 OF 4)



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KEENE, NEW HAMPSHIRE

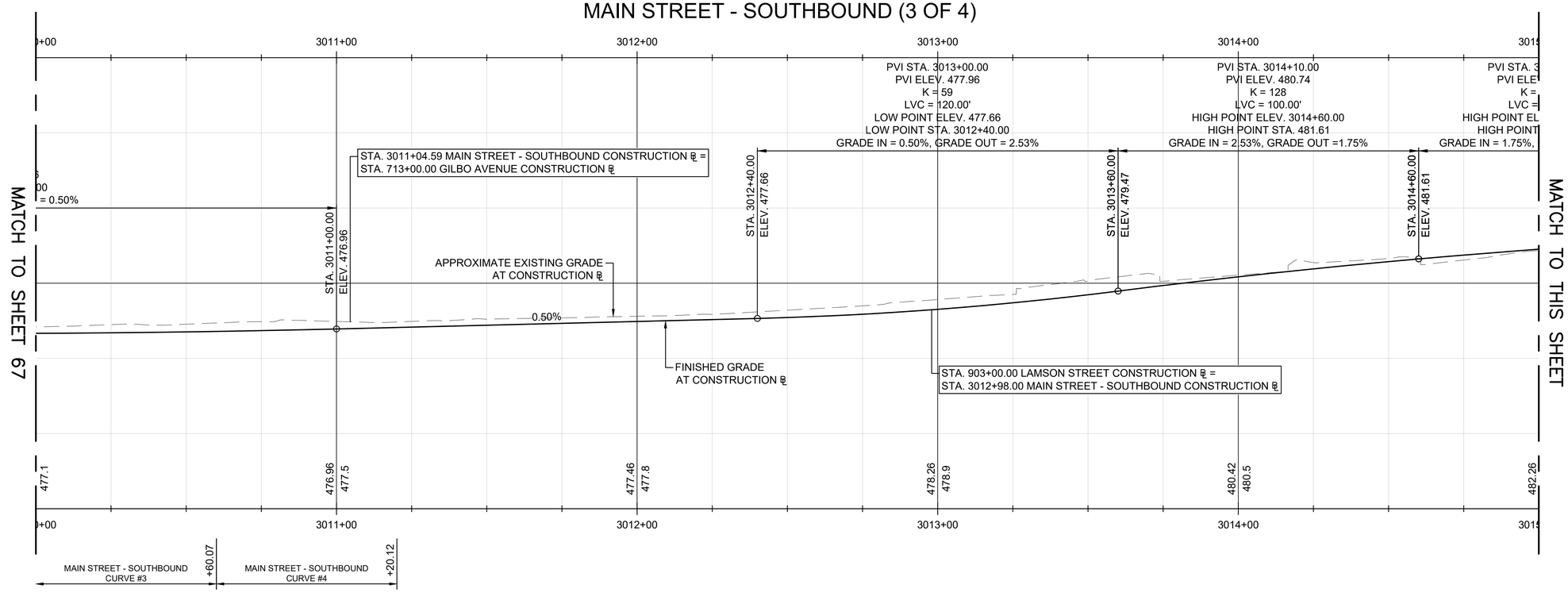
Title
ROADWAY PROFILES
(SHEET 03 OF 12)

Project No.	Scale
179450806	H: 1"=20' V: 1"=4'

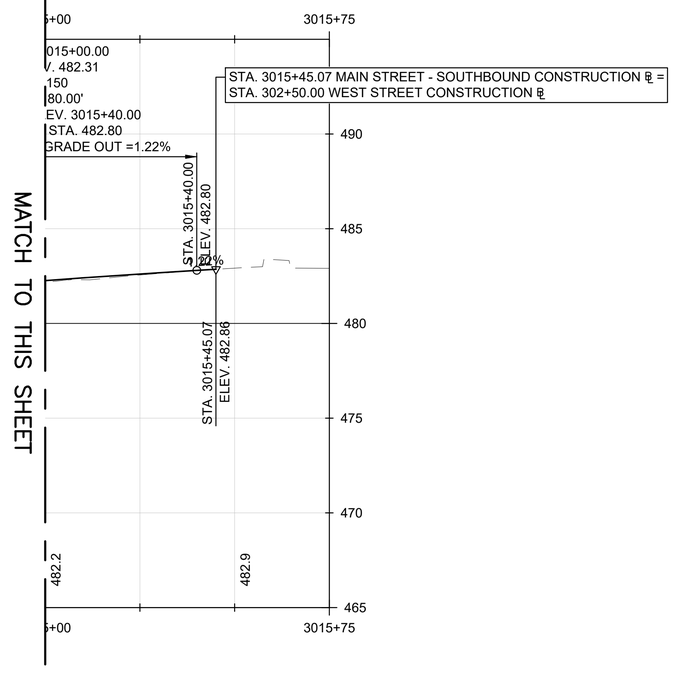
Revision	Sheet	Drawing No.
0	67 of 232	PRO-03

ORIGINAL SHEET - ANSI D

MAIN STREET - SOUTHBOUND (3 OF 4)



MAIN STREET - SOUTHBOUND (4 OF 4)



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Title
ROADWAY PROFILES
(SHEET 04 OF 12)

Project No.	Scale
179450806	H: 1"=20' V: 1"=4'

Revision	Sheet	Drawing No.
0	68 of 232	PRO-04

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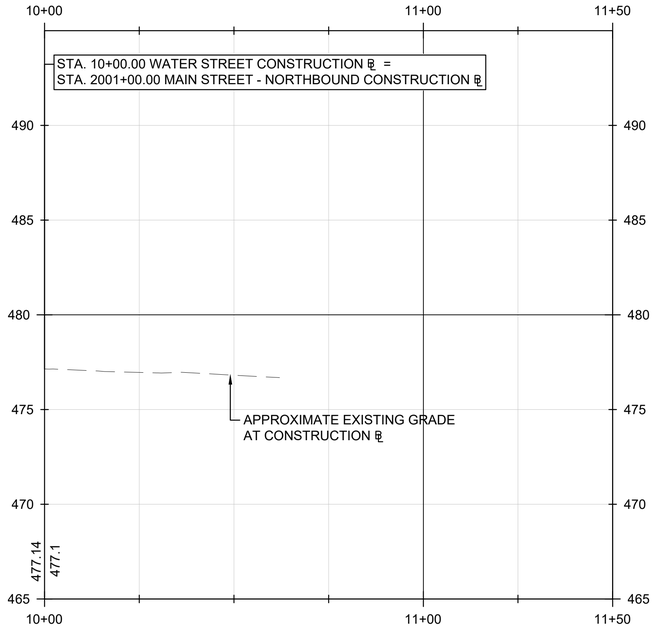
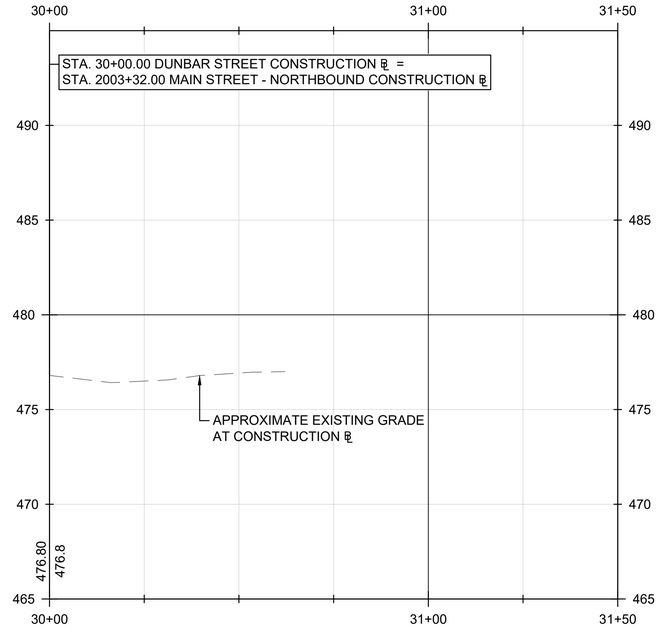
ORIGINAL SHEET - ANSI D

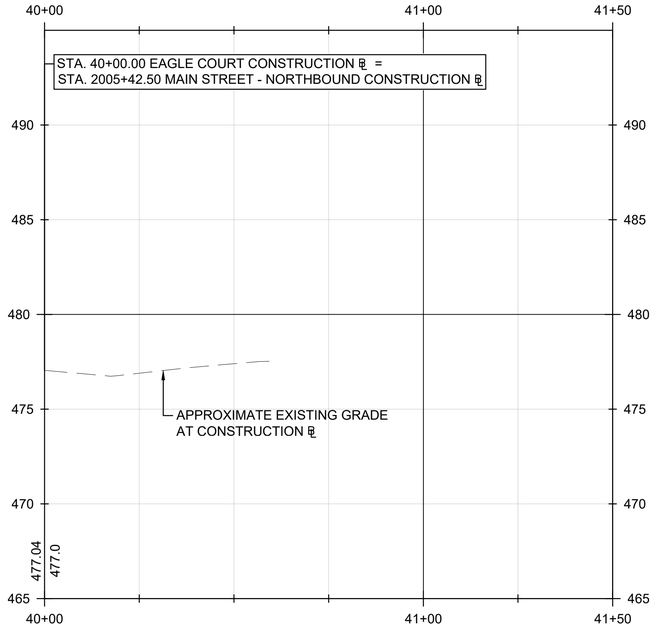
WATER STREET



DUNBAR STREET



EAGLE COURT



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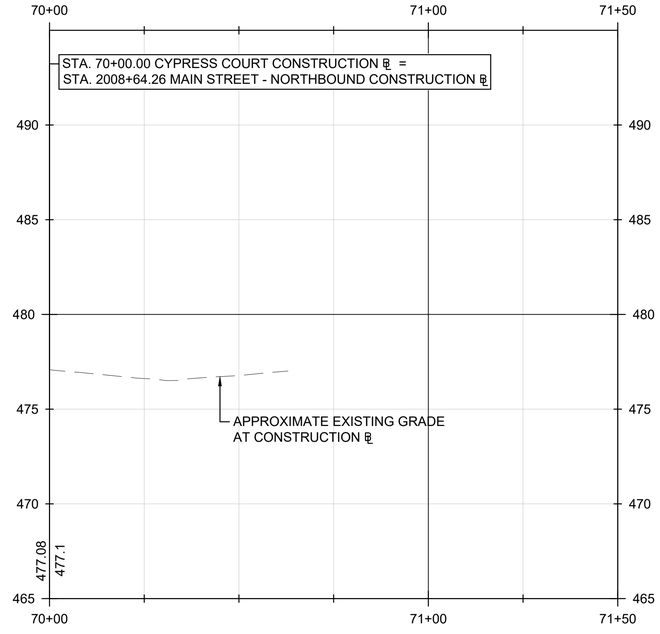

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KEENE, NEW HAMPSHIRE

Title
ROADWAY PROFILES
(SHEET 05 OF 12)

Project No.	Scale
179450806	H: 1"=20' V: 1"=4'

Revision	Sheet	Drawing No.
0	69 of 232	PRO-05

ORIGINAL SHEET - ANSI D

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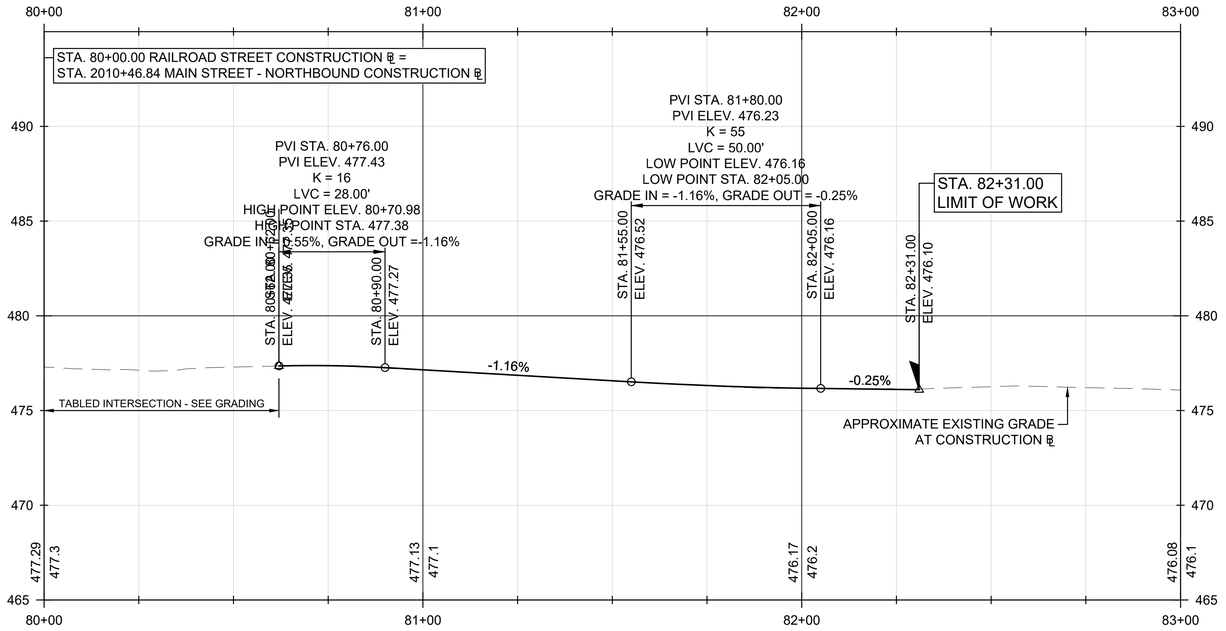
RAILROAD STREET



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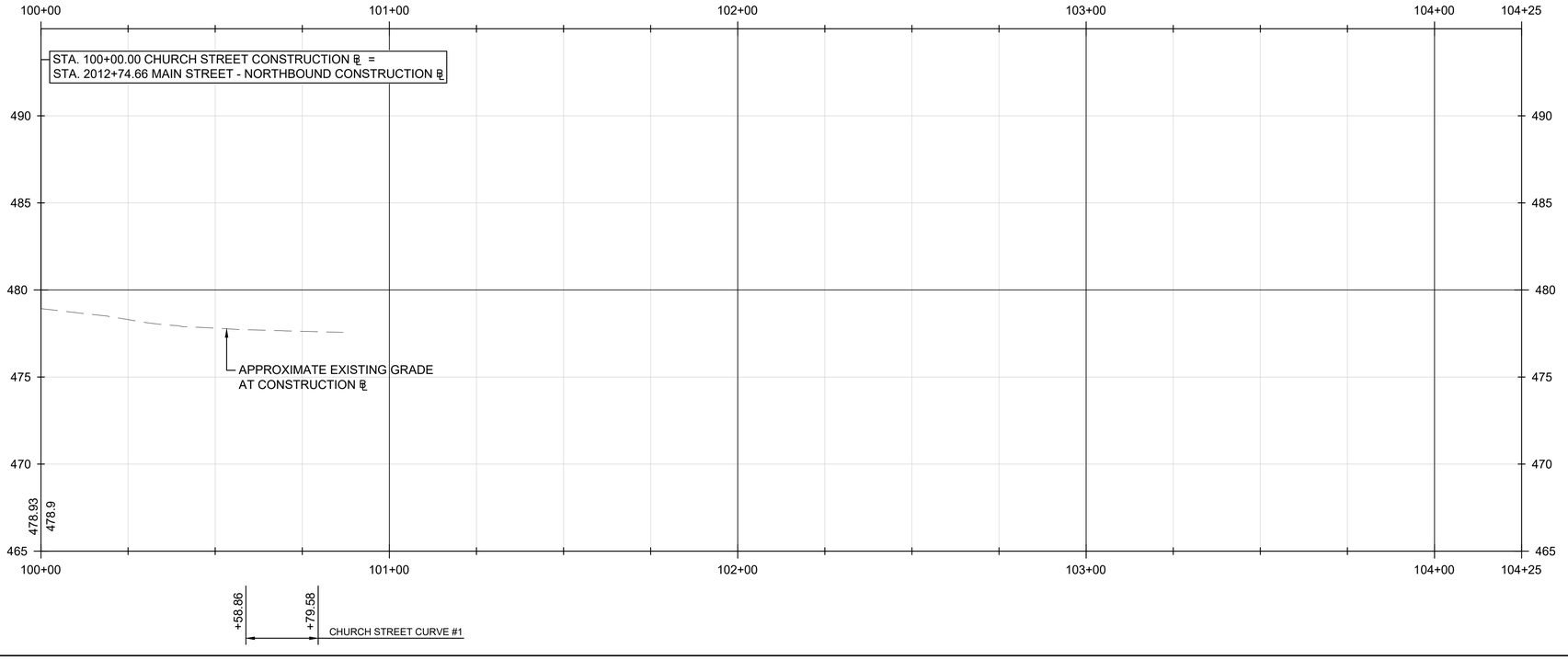

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Title
ROADWAY PROFILES
(SHEET 06 OF 12)

Project No.	Scale
179450806	H: 1"=20' V: 1"=4'

Revision	Sheet	Drawing No.
0	70 of 232	PRO-06

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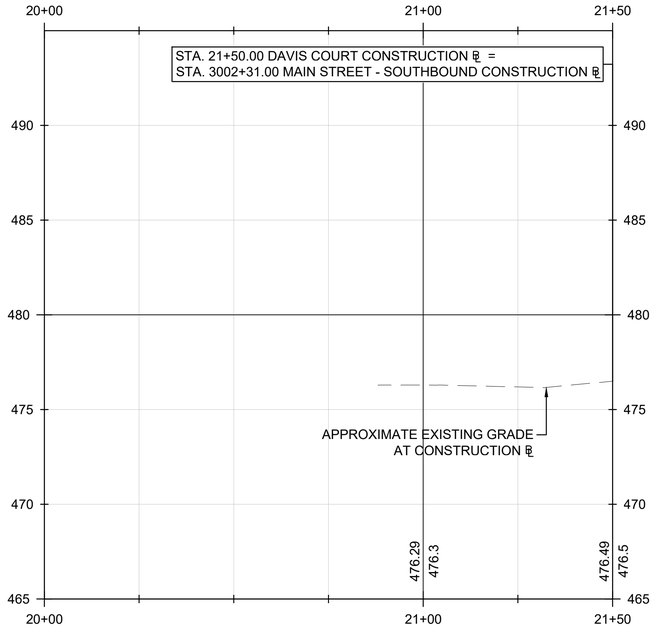
ORIGINAL SHEET - ANSI D

DAVIS COURT



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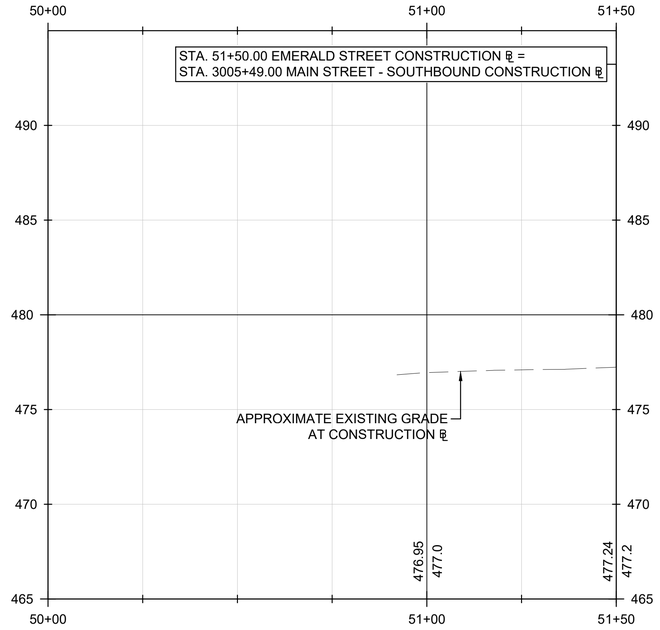
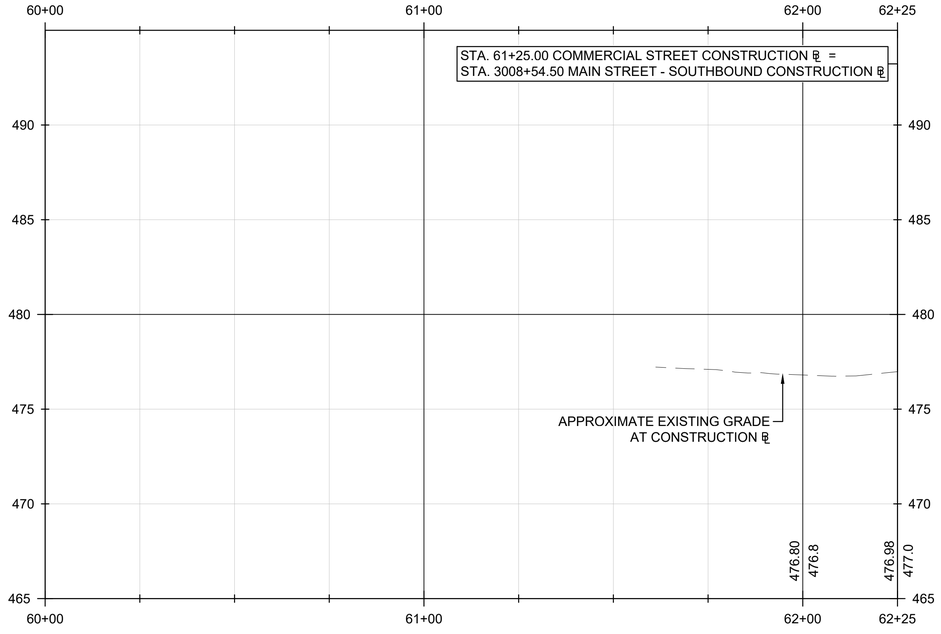


COMMERCIAL STREET



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KEENE DOWNTOWN IMPROVEMENTS

KEENE, NEW HAMPSHIRE

Title
ROADWAY PROFILES
(SHEET 07 OF 12)

Project No.	Scale
179450806	H: 1"=20' V: 1"=4'

Revision	Sheet	Drawing No.
0	71 of 232	PRO-07

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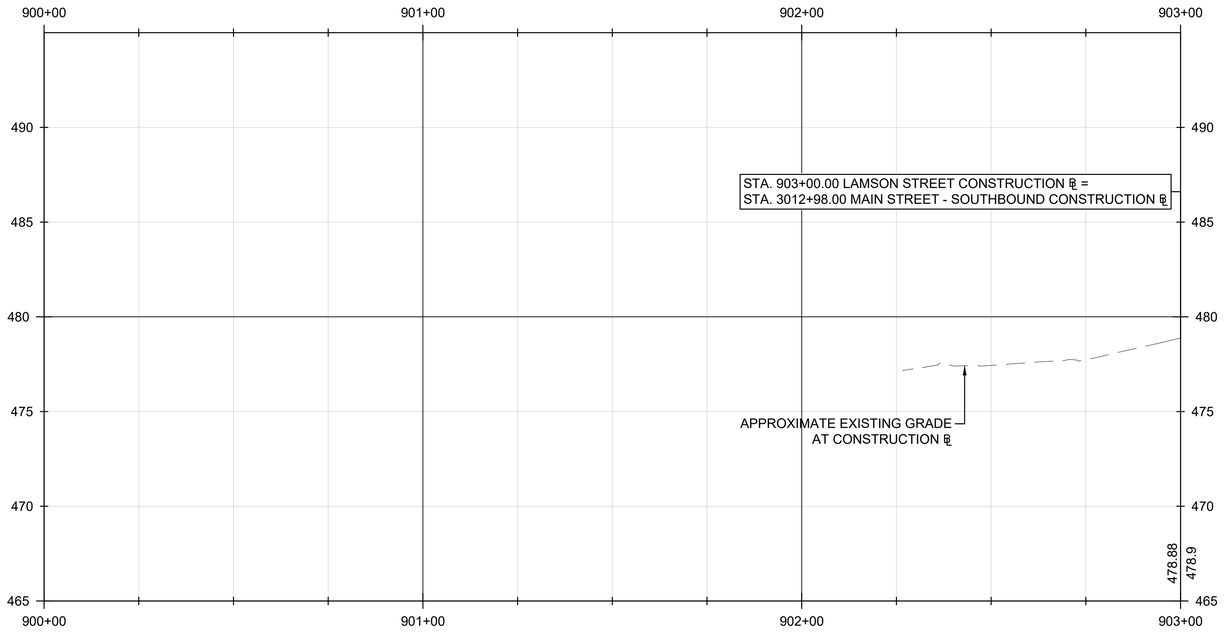
ORIGINAL SHEET - ANSI D

LAMSON STREET



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Revision	By	Appd	YYYY-MM-DD

Issued	By	Appd	YYYY-MM-DD
File Name: 50806_PRO	XXX Dwn.	TJG Dsgn.	DEM Chkd.	2025-01-28 YYYY-MM-DD

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KEENE, NEW HAMPSHIRE

Title
ROADWAY PROFILES
(SHEET 08 OF 12)

Project No.	Scale
179450806	H: 1"=20' V: 1"=4'

Revision	Sheet	Drawing No.
0	72 of 232	**PRO-08**

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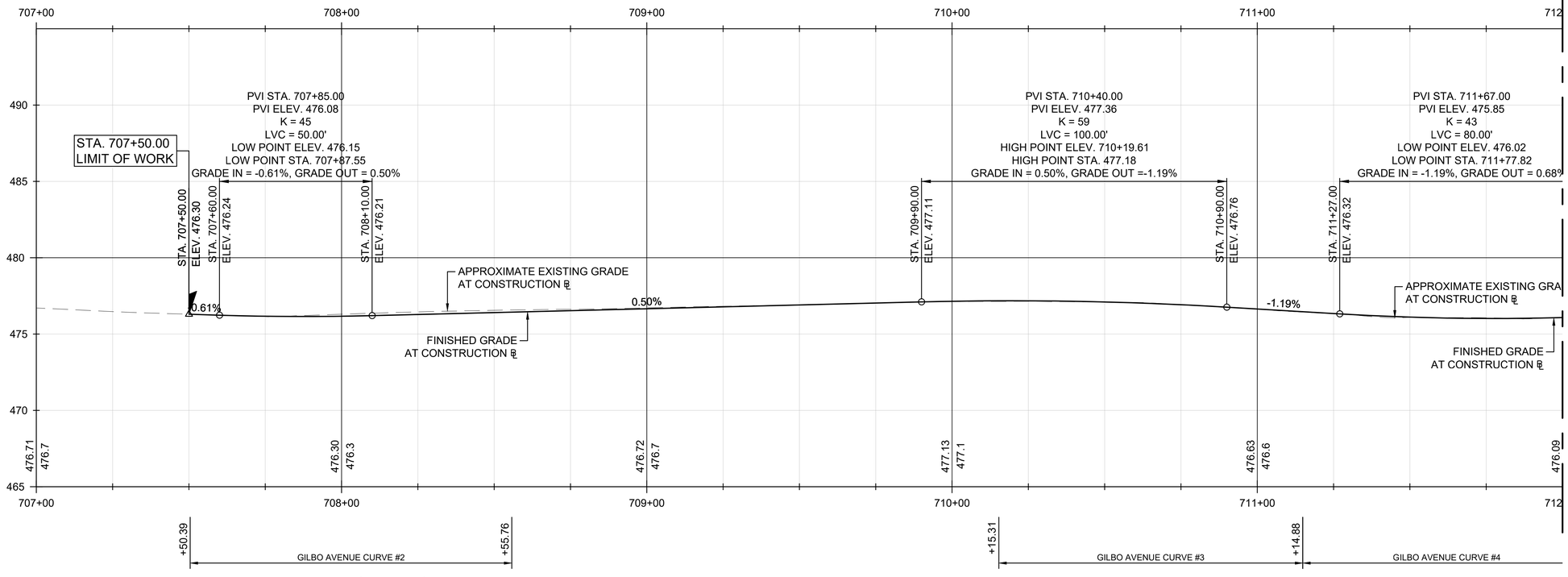
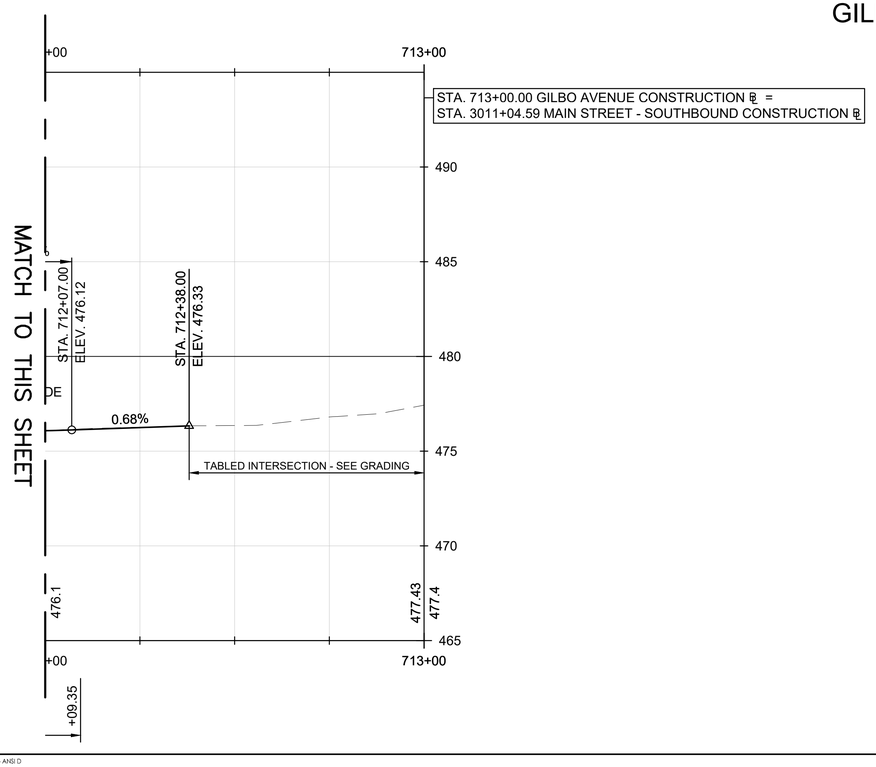
GILBO AVENUE (1 OF 2)



GILBO AVENUE (2 OF 2)



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KEENE, NEW HAMPSHIRE

Title
ROADWAY PROFILES
(SHEET 09 OF 12)

Project No.	Scale
179450806	H: 1"=20' V: 1"=4'

Revision	Sheet	Drawing No.
0	73 of 232	PRO-09

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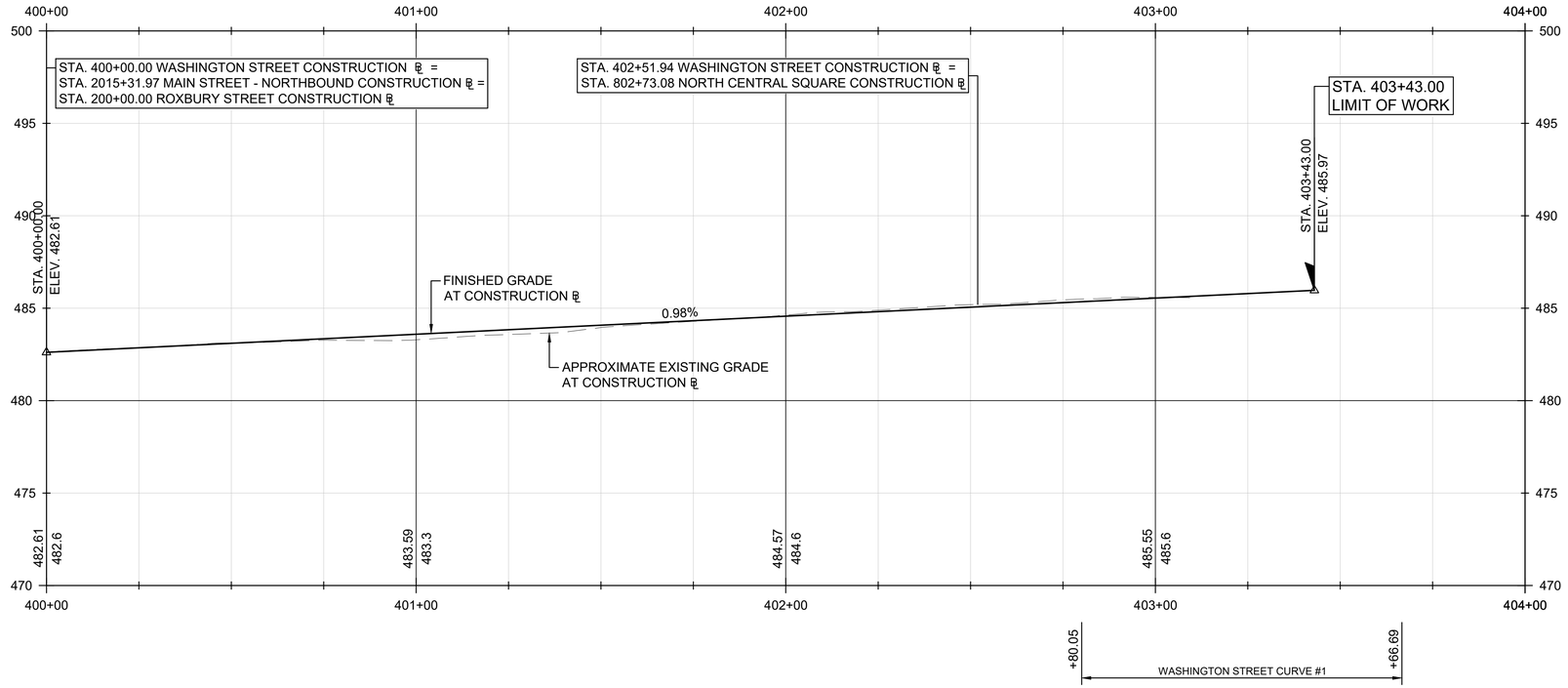
WASHINGTON STREET



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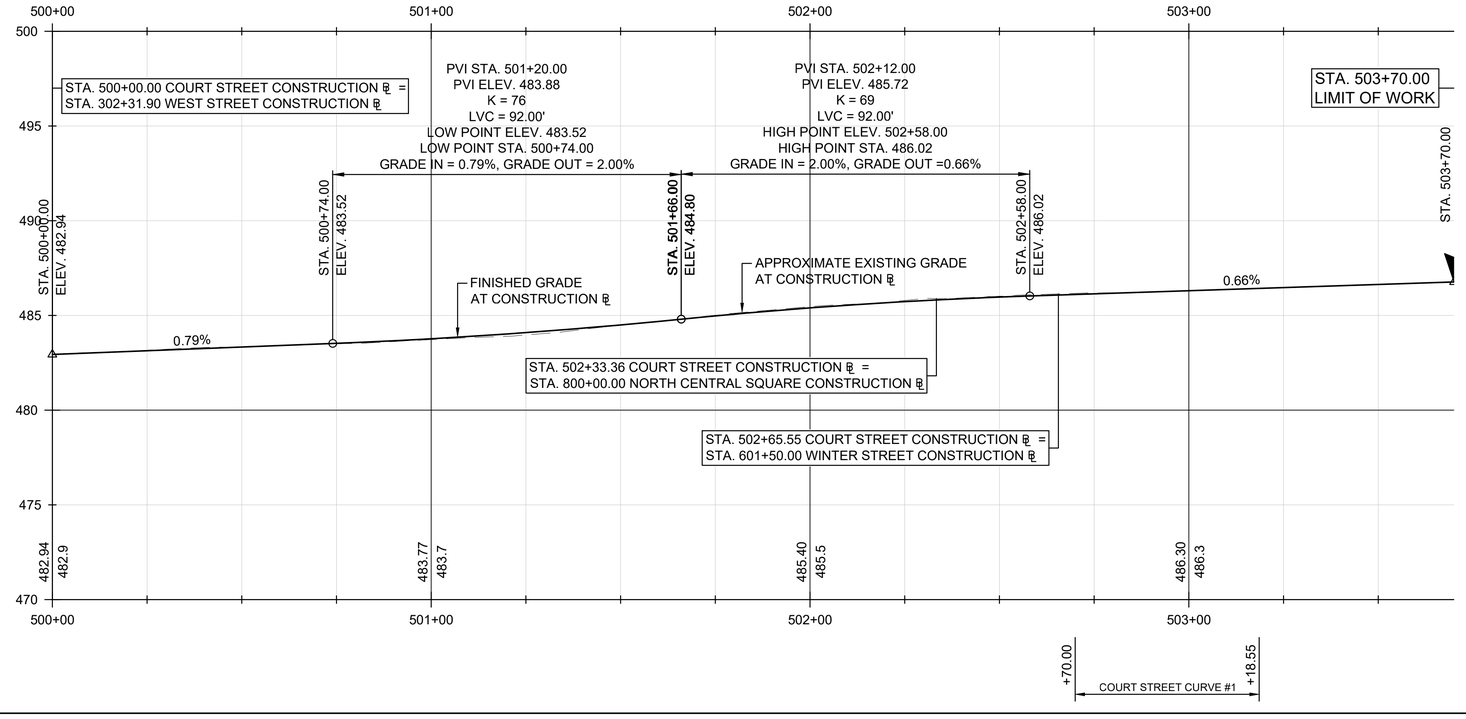

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KEENE, NEW HAMPSHIRE

Title
ROADWAY PROFILES
(SHEET 10 OF 12)

Project No.	Scale
179450806	H: 1"=20' V: 1"=4'

Revision	Sheet	Drawing No.
0	74 of 232	PRO-10

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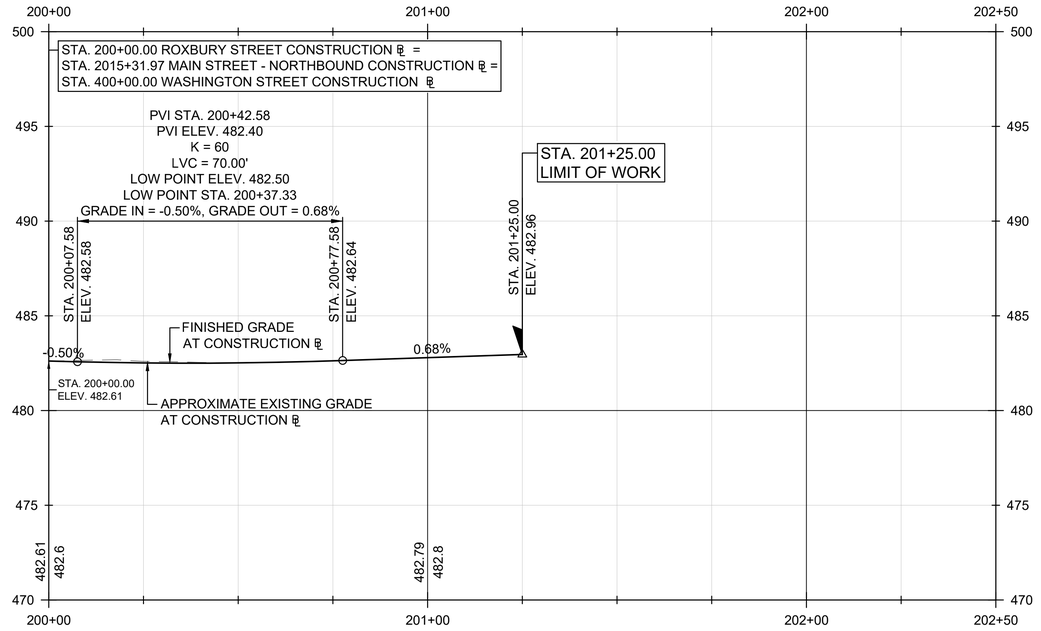
ORIGINAL SHEET - ANSI D

ROXBURY STREET



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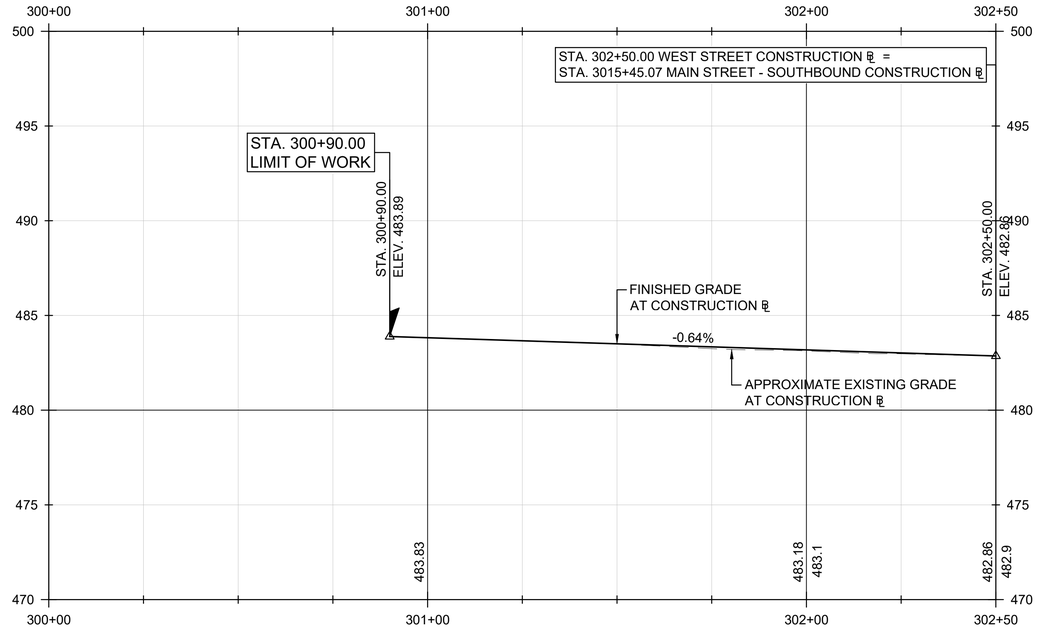

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KEENE, NEW HAMPSHIRE

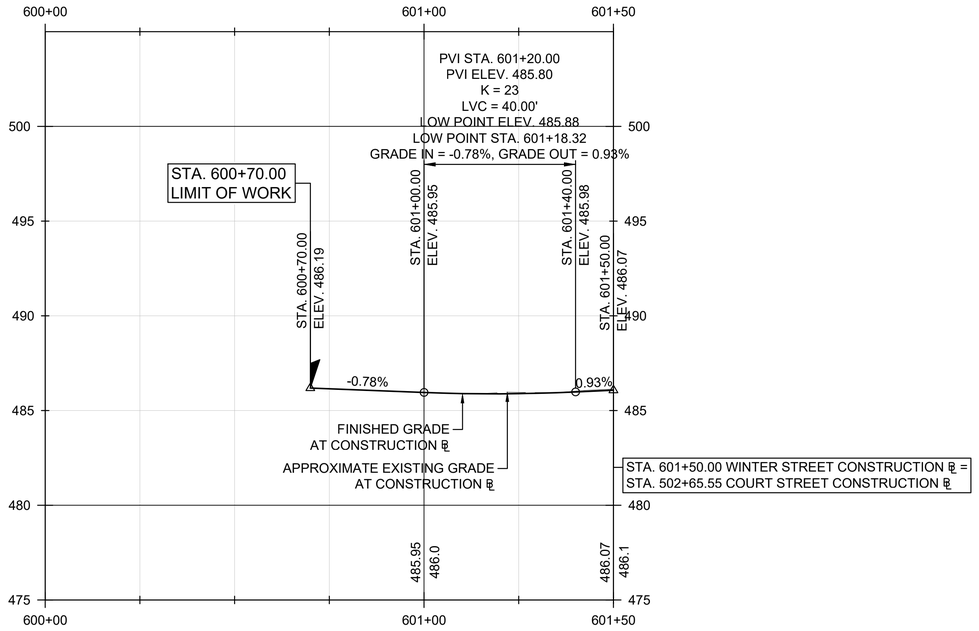
Title
ROADWAY PROFILES
(SHEET 11 OF 12)

Project No.	Scale
179450806	H: 1"=20' V: 1"=4'

Revision	Sheet	Drawing No.
0	75 of 232	PRO-11

ORIGINAL SHEET - ANSI D

WINTER STREET



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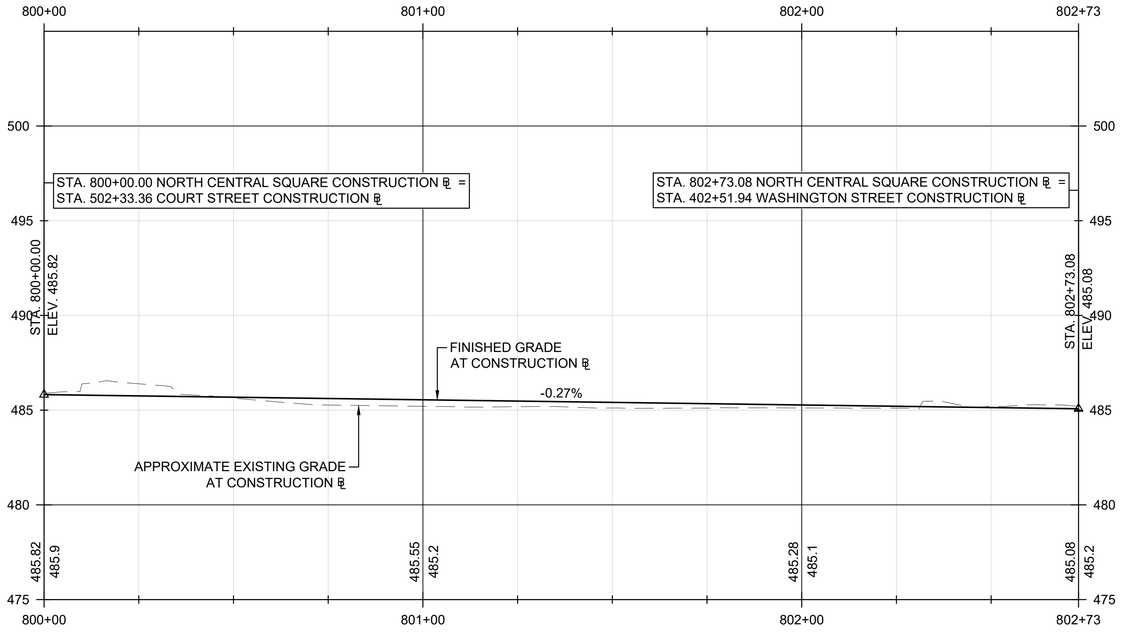

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KEENE, NEW HAMPSHIRE

Title
ROADWAY PROFILES
(SHEET 12 OF 12)

Project No.	Scale
179450806	H: 1"=20' V: 1"=4'

Revision	Sheet	Drawing No.
0	76 of 232	PRO-12

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NOTES:

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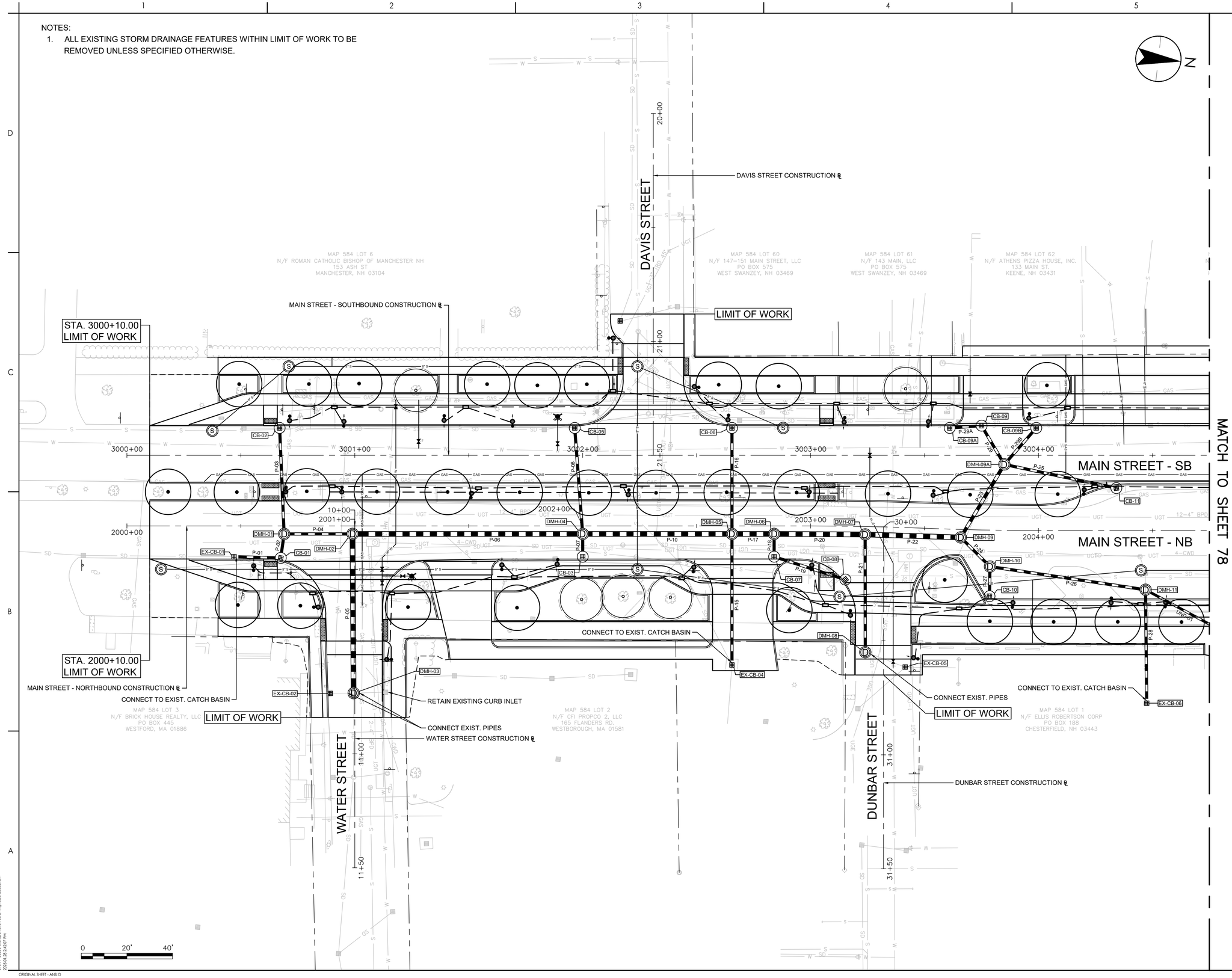

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KEENE, NEW HAMPSHIRE

Title

DRAINAGE LAYOUT PLAN
(SHEET 01 OF 06)

Project No.	Scale
179450806	1"=20'

Revision	Sheet	Drawing No.
0	77 of 232	DRN-01

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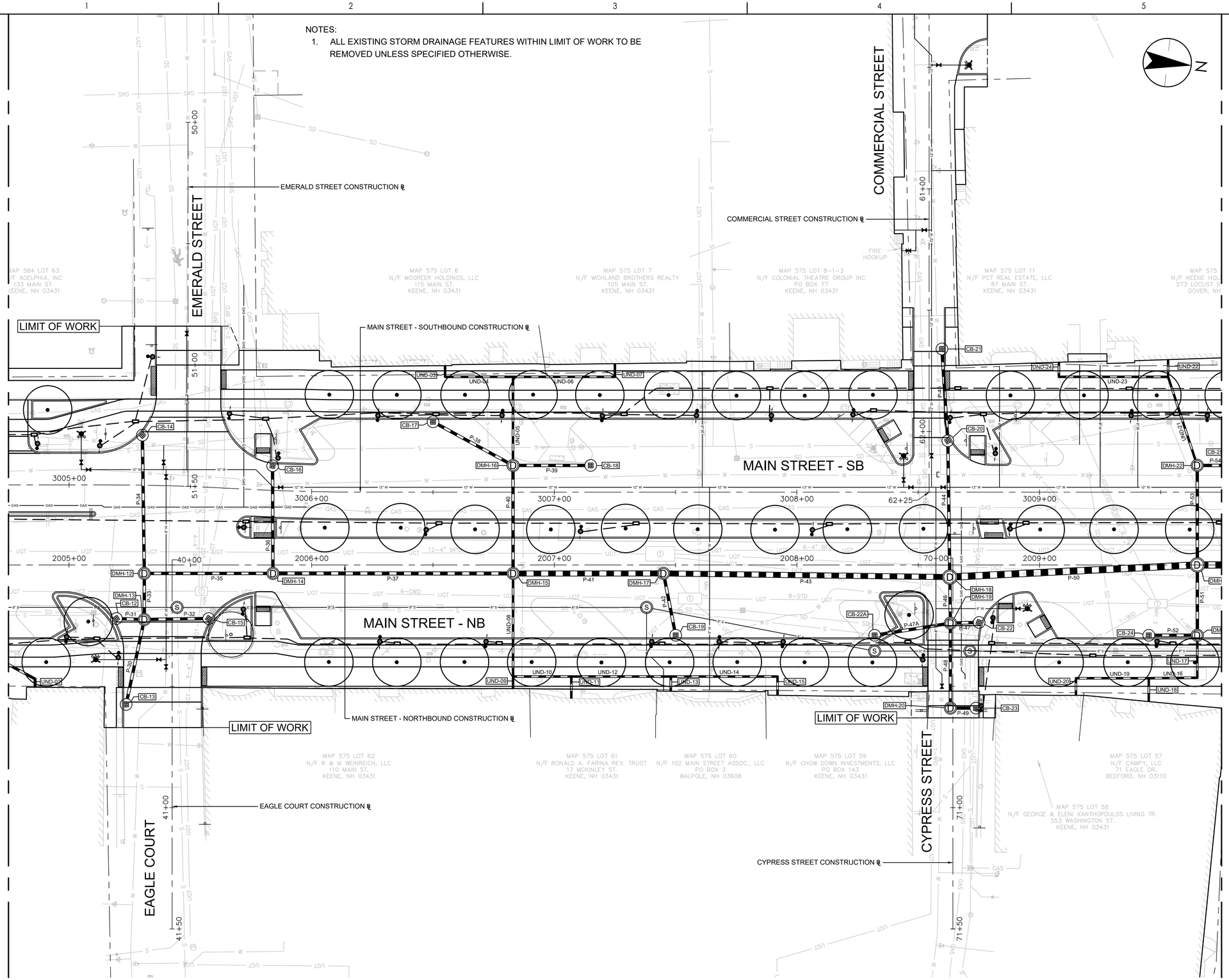

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Issued	By	Appd	YYYY-MM-DD
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KEENE, NEW HAMPSHIRE

Title
DRAINAGE LAYOUT PLAN
(SHEET 02 OF 06)

Project No.	Scale
179450806	1"=20'
Revision 0	Sheet 78 of 232
Drawing No.	**DRN-02**

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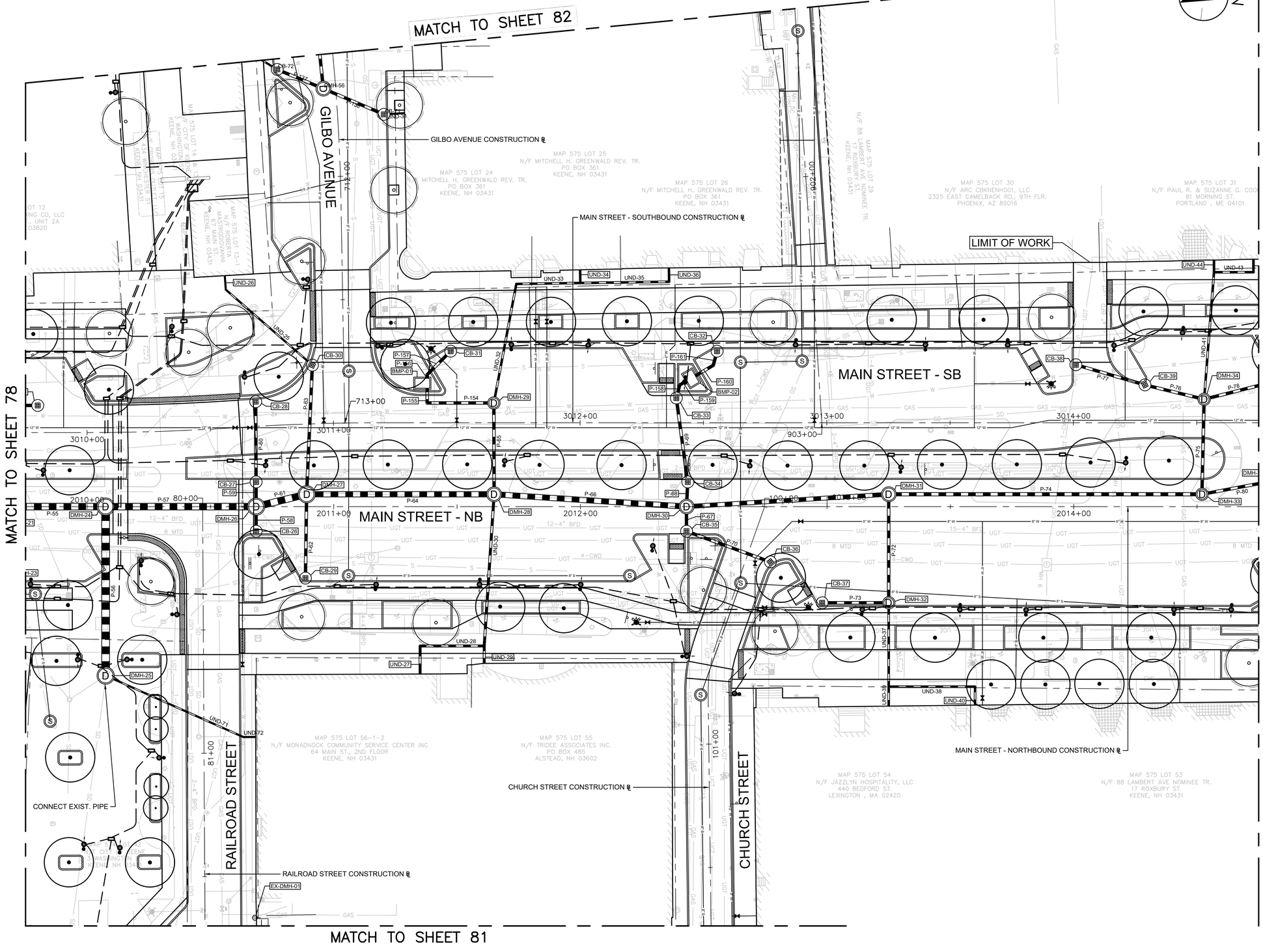

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KEENE, NEW HAMPSHIRE

Title
DRAINAGE LAYOUT PLAN
(SHEET 03 OF 06)

Project No.	Scale
179450806	1"=20'
Revision 0	Sheet 79 of 232

Drawing No.
DRN-03

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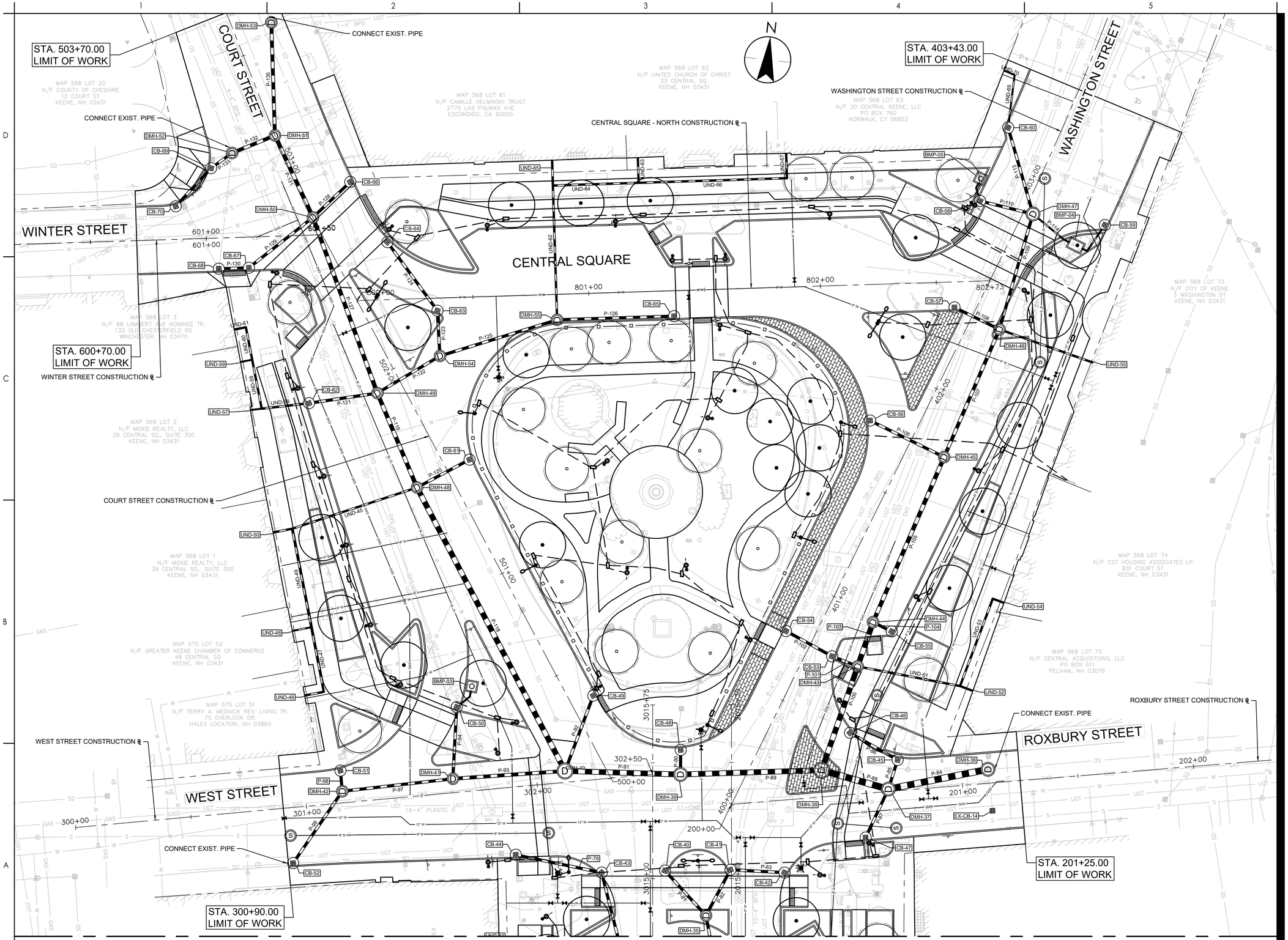

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KEENE, NEW HAMPSHIRE

Title
DRAINAGE LAYOUT PLAN
(SHEET 04 OF 06)

Project No.	Scale
179450806	1"=20'

Revision	Sheet	Drawing No.
0	80 of 232	DRN-04

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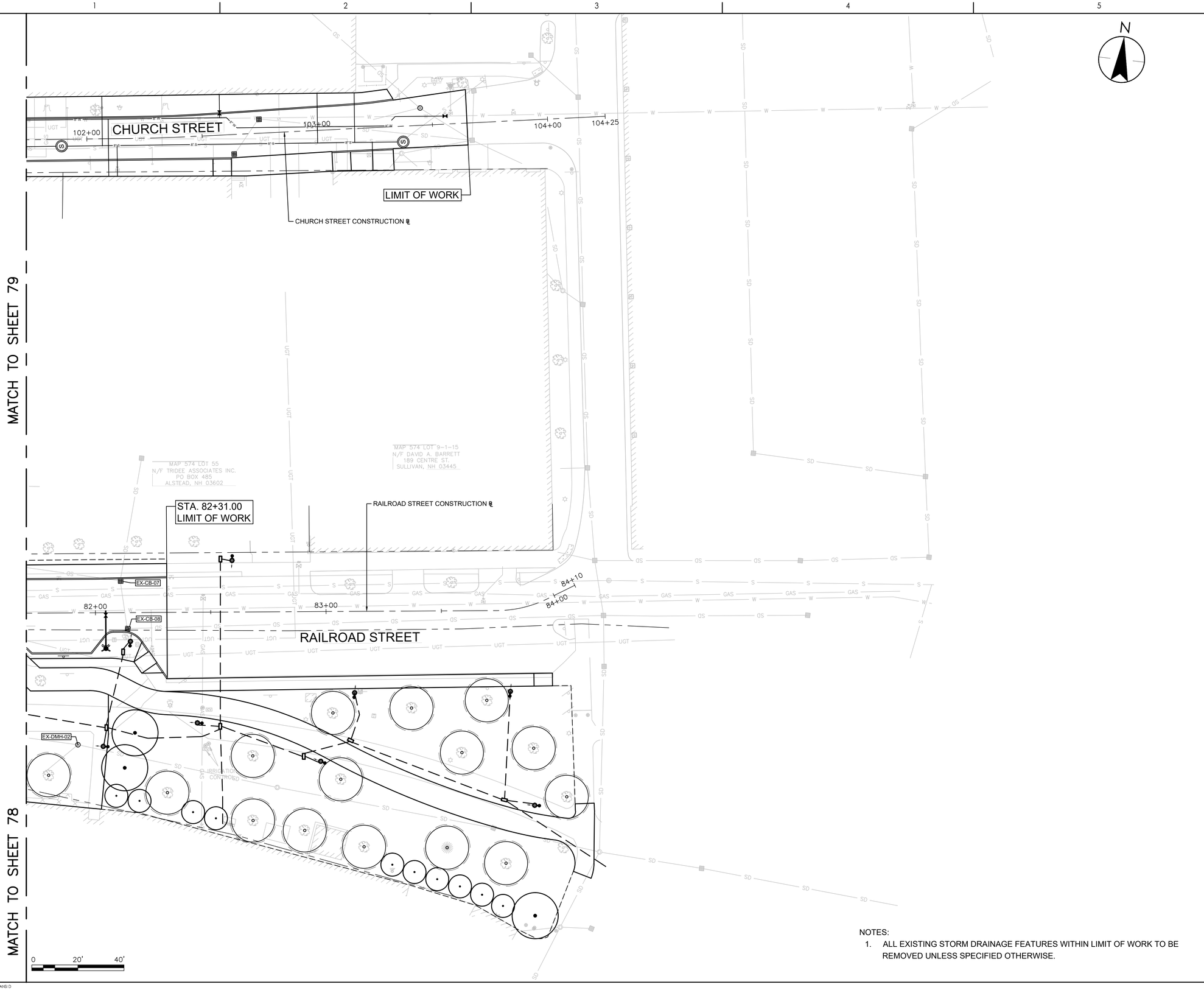

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KEENE, NEW HAMPSHIRE

Title
DRAINAGE LAYOUT PLAN
(SHEET 05 OF 06)

Project No.	Scale
179450806	1"=20'

Revision	Sheet	Drawing No.
0	81 of 232	DRN-05

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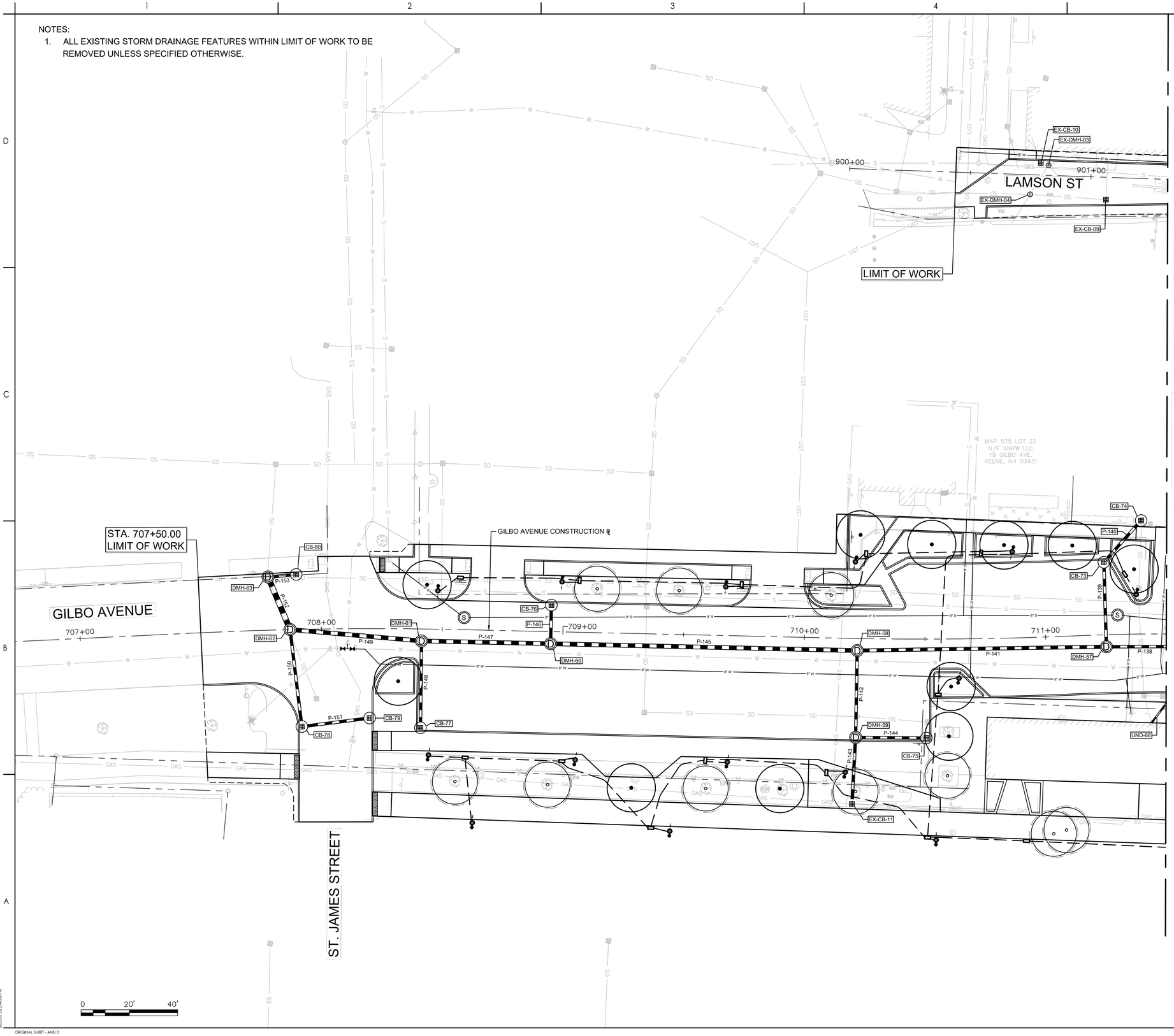

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Issued	By	Appd	YYYY-MM-DD
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KEENE, NEW HAMPSHIRE

Title
DRAINAGE LAYOUT PLAN
(SHEET 06 OF 06)

Project No.	Scale
179450806	1"=20'

Revision	Sheet	Drawing No.
0	82 of 232	**DRN-06**

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STRUCTURE TABLE						
STRUCTURE #	STATION	OFFSET	RIM	PIPES IN	PIPES OUT	REMARKS
CB-01	2000+67.50	RT 14.0'	476.73	EX-CB-01 = 472.81	DMH-01 = 472.71	4-FT DIAMETER CATCH BASIN
CB-02	3000+67.00	LT 12.0'	476.11		DMH-01 = 473.00	4-FT DIAMETER CATCH BASIN
CB-03	2002+00.00	RT 13.5'	476.56		DMH-04 = 473.35	4-FT DIAMETER CATCH BASIN
CB-05	3001+96.50	LT 12.0'	475.89		DMH-04 = 473.19	4-FT DIAMETER CATCH BASIN
CB-06	3002+65.50	LT 12.0'	476.07		DMH-05 = 473.28	4-FT DIAMETER CATCH BASIN
CB-07	2002+84.00	RT 13.5'	476.33	CB-08 = 473.55	DMH-06 = 473.45	4-FT DIAMETER CATCH BASIN
CB-08	2003+15.55	RT 23.4'	476.34		CB-07 = 473.70	4-FT DIAMETER CATCH BASIN
CB-09	3003+75.00	LT 13.0'	475.89	CB-09A = 473.32	DMH-09A = 473.32	4-FT DIAMETER CATCH BASIN
CB-09A	3003+61.00	LT 12.0'	475.94		CB-09 = 473.36	4-FT DIAMETER CATCH BASIN
CB-09B	3003+99.00	LT 12.0'	475.96		DMH-09A = 473.32	4-FT DIAMETER CATCH BASIN
CB-10	2003+79.00	RT 29.0'	476.52		DMH-10 = 473.32	4-FT DIAMETER CATCH BASIN
CB-11	2004+34.16	LT 18.6'	477.32		DMH-09A = 473.44	4-FT DIAMETER CATCH BASIN
CB-12	2005+19.48	RT 22.1'	477.73		DMH-13 = 473.85	4-FT DIAMTER CATCH BASIN
CB-13	40+57.50	RT 19.0'	477.08		DMH-13 = 473.94	4-FT DIAMETER CATCH BASIN
CB-14	3005+29.85	LT 20.6'	476.27		DMH-12 = 473.87	4-FT DIAMETER CATCH BASIN
CB-15	2005+57.52	RT 22.1'	477.79		DMH-13 = 473.91	4-FT DIAMETER CATCH BASIN
CB-16	3005+83.50	LT 10.1'	476.76		DMH-14 = 473.52	4-FT DIAMETER CATCH BASIN
CB-17	3006+50.00	LT 29.0'	476.29		DMH-16 = 473.52	4-FT DIAMETER CATCH BASIN
CB-18	3007+15.00	LT 11.0'	476.49		DMH-16 = 473.50	4-FT DIAMETER CATCH BASIN
CB-19	2007+50.00	RT 29.0'	476.37		DMH-17 = 472.91	4-FT DIAMETER CATCH BASIN
CB-20	3008+62.20	LT 21.2'	476.44	CB-21 = 472.40	DMH-18 = 472.30	4-FT DIAMETER CATCH BASIN
CB-21	61+66.00	LT 5.2'	477.07		CB-20 = 472.54	4-FT DIAMETER CATCH BASIN
CB-22	70+23.71	LT 10.8'	476.20		DMH-19 = 472.31	4-FT DIAMETER CATCH BASIN
CB-22A	2008+32.00	RT 29.0'	476.57		DMH-19 = 472.41	4-FT DIAMETER CATCH BASIN
CB-23	70+59.00	LT 9.5'	476.76		DMH-20 = 472.56	4-FT DIAMETER CATCH BASIN
CB-24	2009+45.00	RT 29.0'	476.22		DMH-23 = 471.90	4-FT DIAMETER CATCH BASIN
CB-25	3009+80.00	LT 11.0'	476.35		DMH-22 = 471.80	4-FT DIAMETER CATCH BASIN
CB-26	2010+68.50	RT 10.0'	476.38		DMH-26 = 471.70	4-FT DIAMETER CATCH BASIN
CB-27	2010+68.50	LT 10.0'	475.68	CB-28 = 471.80	DMH-26 = 471.70	4-FT DIAMETER CATCH BASIN
CB-28	3010+68.99	LT 10.0'	476.54		CB-27 = 471.92	4-FT DIAMETER CATCH BASIN
CB-29	2010+88.50	RT 29.0'	476.78		DMH-27 = 471.98	4-FT DIAMETER CATCH BASIN
CB-30	3010+92.18	LT 23.8'	476.36	BEND-08 = 472.27	DMH-27 = 472.02	4-FT DIAMETER CATCH BASIN
CB-31	3011+47.50	LT 29.0'	476.53		BEND-25 = 473.31	4-FT DIAMETER CATCH BASIN
CB-32	3012+55.50	LT 29.0'	477.11		BEND-27 = 473.23	4-FT DIAMETER CATCH BASIN
CB-33	3012+39.00	LT 10.0'	477.37	BEND-26 = 472.88	CB-34 = 472.78	4-FT DIAMETER CATCH BASIN
CB-34	2012+43.50	LT 10.0'	478.26	CB-33 = 472.63	DMH-30 = 472.53	4-FT DIAMETER CATCH BASIN
CB-35	2012+43.00	RT 10.0'	478.26	CB-36 = 472.66	DMH-30 = 472.56	4-FT DIAMETER CATCH BASIN
CB-36	2012+77.00	RT 22.4'	476.91		CB-35 = 472.98	4-FT DIAMETER CATCH BASIN
CB-37	2012+98.00	RT 39.0'	478.78		DMH-32 = 474.25	4-FT DIAMETER CATCH BASIN
CB-38	3014+01.00	LT 23.5'	479.89		CB-39 = 476.00	4-FT DIAMETER CATCH BASIN
CB-39	3014+29.00	LT 15.3'	480.64	CB-38 = 475.75	DMH-34 = 475.65	4-FT DIAMETER CATCH BASIN
CB-40	3015+03.50	RT 5.3'	482.20		DMH-35 = 475.60	4-FT DIAMETER CATCH BASIN
CB-41	2015+03.75	LT 0.4'	482.03	CB-42 = 475.66	DMH-35 = 475.56	4-FT DIAMETER CATCH BASIN
CB-42	2015+02.50	RT 22.9'	481.83		CB-41 = 475.86	4-FT DIAMETER CATCH BASIN
CB-43	3015+02.62	LT 22.0'	481.88	CB-44 = 476.01	DMH-34 = 475.91	4-FT DIAMETER CATCH BASIN
CB-44	301+88.00	RT 29.2'	482.30		CB-43 = 476.35	4-FT DIAMETER CATCH BASIN
CB-45	200+73.00	LT 13.3'	482.43	CB-46 = 477.03	DMH-37 = 476.93	4-FT DIAMETER CATCH BASIN
CB-46	200+53.50	LT 26.6'	482.62		CB-45 = 477.23	4-FT DIAMETER CATCH BASIN
CB-47	200+56.50	RT 19.0'	482.26		DMH-37 = 477.03	4-FT DIAMETER CATCH BASIN
CB-48	3015+55.58	RT 12.1'	482.46		DMH-39 = 477.55	4-FT DIAMETER CATCH BASIN
CB-49	500+35.00	RT 10.0'	482.93		DMH-40 = 477.76	4-FT DIAMETER CATCH BASIN
CB-50	301+68.50	LT 36.6'	483.61	BEND-15 = 478.45	DMH-41 = 478.20	4-FT DIAMETER CATCH BASIN
CB-51	301+16.00	LT 14.0'	483.50		DMH-42 = 478.68	4-FT DIAMETER CATCH BASIN
CB-52	300+92.00	RT 24.0'	483.43		DMH-42 = 479.14	4-FT DIAMETER CATCH BASIN
CB-53	400+76.50	RT 10.7'	483.17	CB-54 = 477.48	DMH-43 = 477.23	4-FT DIAMETER CATCH BASIN

STRUCTURE TABLE						
STRUCTURE #	STATION	OFFSET	RIM	PIPES IN	PIPES OUT	REMARKS
CB-54	400+77.50	LT 12.0'	483.05		CB-53 = 477.66	4-FT DIAMETER CATCH BASIN
CB-55	400+97.50	RT 29.0'	483.10		DMH-44 = 478.60	4-FT DIAMETER CATCH BASIN
CB-56	401+75.00	LT 19.7'	484.08		DMH-45 = 478.85	4-FT DIAMETER CATCH BASIN
CB-57	802+57.50	RT 11.0'	484.86		DMH-46 = 479.27	4-FT DIAMETER CATCH BASIN
CB-58	402+81.00	LT 19.0'	484.99	BEND-17 = 480.26	DMH-47 = 480.01	4-FT DIAMETER CATCH BASIN
CB-59	402+95.00	RT 34.0'	484.85		BEND-20 = 480.64	4-FT DIAMETER CATCH BASIN
CB-60	403+15.50	LT 21.5'	485.40	BEND-18 = 480.42	DMH-47 = 480.16	4-FT DIAMETER CATCH BASIN
CB-61	501+50.00	RT 10.6'	484.21		DMH-48 = 478.60	4-FT DIAMETER CATCH BASIN
CB-62	502+04.00	LT 39.1'	485.22	CONNECT-15 = 479.19	DMH-49 = 479.09	4-FT DIAMETER CATCH BASIN
CB-63	800+34.50	RT 5.4'	485.54	CB-64 = 479.46	DMH-54 = 479.36	4-FT DIAMETER CATCH BASIN
CB-64	502+49.50	RT 23.4'	485.57		CB-63 = 479.79	4-FT DIAMETER CATCH BASIN
CB-65	801+36.50	RT 11.0'	485.03		DMH-55 = 480.41	4-FT DIAMETER CATCH BASIN
CB-66	502+80.50	RT 21.3'	485.66		DMH-50 = 479.34	4-FT DIAMETER CATCH BASIN
CB-67	601+18.00	RT 13.2'	485.67	CB-68 = 479.57	DMH-50 = 479.47	4-FT DIAMETER CATCH BASIN
CB-68	601+05.00	RT 13.2'	485.70		CB-67 = 479.66	4-FT DIAMETER CATCH BASIN
CB-69	503+10.53	LT 30.8'	485.63	CB-70 = 480.04	DMH-52 = 479.94	4-FT DIAMETER CATCH BASIN
CB-70	600+87.28	LT 14.3'	485.71		CB-69 = 480.22	4-FT DIAMETER CATCH BASIN
CB-71	711+76.00	LT 18.8'	475.75	= 471.94	DMH-56 = 471.84	4-FT DIAMETER CATCH BASIN
CB-72	711+54.50	RT 23.0'	476.01	= 472.01	DMH-56 = 471.81	4-FT DIAMETER CATCH BASIN
CB-73	711+25.00	LT 30.0'	475.96	CB-74 = 471.87	DMH-57 = 471.62	4-FT DIAMETER CATCH BASIN
CB-74	711+40.00	LT 47.0'	473.65		CB-73 = 472.06	4-FT DIAMETER CATCH BASIN
CB-75	710+50.50	RT 41.0'	476.49		DMH-59 = 471.51	4-FT DIAMETER CATCH BASIN
CB-76	708+95.00	LT 11.0'	476.33		DMH-60 = 470.07	4-FT DIAMETER CATCH BASIN
CB-77	708+41.50	RT 41.0'	475.75		DMH-61 = 469.52	4-FT DIAMETER CATCH BASIN
CB-78	707+91.02	RT 40.3'	475.55	CB-79 = 469.56	DMH-62 = 469.31	4-FT DIAMETER CATCH BASIN
CB-79	708+19.87	RT 37.1'	475.45		CB-78 = 469.80	4-FT DIAMETER CATCH BASIN
CB-80	707+90.00	LT 22.8'	475.61		DMH-63 = 468.58	4-FT DIAMETER CATCH BASIN
EX-CB-01	2000+47.00	RT 13.5'	476.63		CB-01 = 472.90	RECONSTRUCT
EX-CB-02	10+73.50	RT 10.8'	0.00			ADJUST
EX-CB-03	20+91.00	RT 14.5'	0.00			ADJUST
EX-CB-04	2002+65.50	RT 61.0'	477.89		DMH-05 = 474.00	RECONSTRUCT
EX-CB-05	30+61.50	LT 9.5'	0.00			ADJUST
EX-CB-06	2004+47.50	RT 75.8'	477.75		DMH-11 = 473.87	RECONSTRUCT
EX-CB-07	82+11.00	LT 13.7'	475.69			ADJUST
EX-CB-08	82+14.00	RT 7.0'	475.82			ADJUST
EX-CB-09	901+06.50	RT 9.2'	0.00			ADJUST
EX-CB-10	900+79.00	LT 5.0'	0.00			ADJUST
EX-CB-11	710+21.00	RT 68.5'	476.66		DMH-59 = 471.62	RECONSTRUCT
EX-CB-12	102+63.50	RT 8.5'	0.00			ADJUST
EX-CB-13	102+75.00	LT 6.0'	0.00			ADJUST
EX-CB-14	201+12.00	RT 12.0'	482.67			ADJUST

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Notes

Revision | By | Appd | YYYY-MM-DD

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KEENE, NEW HAMPSHIRE

Title
DRAINAGE STRUCTURE TABLE
(SHEET 01 OF 02)

Project No. 179450806 | Scale 1"=20'

Revision 0 | Sheet 83 of 232 | Drawing No. **DRN-07**

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STRUCTURE TABLE						
STRUCTURE #	STATION	OFFSET	RIM	PIPES IN	PIPES OUT	REMARKS
DMH-01	2000+69.00	RT 3.5'	476.98	CB-01 = 472.68 CB-02 = 472.68	DMH-02 = 472.58	4-FT DIAMETER MANHOLE
DMH-02	2000+99.00	RT 3.5'	477.13	DMH-01 = 472.45 DMH-04 = 472.35	DMH-03 = 472.32	4-FT DIAMETER MANHOLE
DMH-03	10+73.37	RT 0.5'	477.02	DMH-02 = 472.10		4-FT DIAMETER MANHOLE
DMH-04	2002+00.00	RT 3.5'	477.86	CB-03 = 473.32 DMH-05 = 472.63 CB-05 = 472.98	DMH-02 = 472.63	4-FT DIAMETER MANHOLE
DMH-05	2002+65.50	RT 3.5'	476.57	DMH-06 = 472.80 CB-06 = 473.05 EX-CB-04 = 473.20	DMH-04 = 472.80	4-FT DIAMETER MANHOLE
DMH-06	2002+84.00	RT 3.5'	476.56	CB-07 = 473.25 DMH-07 = 472.84	DMH-05 = 472.84	4-FT DIAMETER MANHOLE
DMH-07	2003+24.00	RT 3.5'	476.61	DMH-09 = 472.94 DMH-08 = 473.44	DMH-06 = 472.94	4-FT DIAMETER MANHOLE
DMH-08	30+55.00	RT 8.0'	477.70		DMH-07 = 473.82	4-FT DIAMETER MANHOLE
DMH-09	2003+66.00	RT 3.5'	478.03	DMH-10 = 473.12 DMH-09A = 473.12	DMH-07 = 473.12	4-FT DIAMETER MANHOLE
DMH-09A	3003+85.00	RT 4.0'	476.56	CB-09 = 473.25 CB-09B = 473.25 CB-11 = 473.25	DMH-09 = 473.25	4-FT DIAMETER MANHOLE
DMH-10	2003+79.00	RT 16.0'	476.74	DMH-11 = 473.28 CB-10 = 473.28	DMH-09 = 473.18	4-FT DIAMETER MANHOLE
DMH-11	2004+47.00	RT 26.0'	476.91	EX-CB-06 = 473.64 BEND-01 = 473.64	DMH-10 = 473.54	4-FT DIAMETER MANHOLE
DMH-12	2005+31.00	RT 3.5'	477.27	CB-14 = 473.66 DMH-13 = 473.66	DMH-14 = 473.56	4-FT DIAMETER MANHOLE
DMH-13	2005+31.00	RT 22.5'	477.70	CB-13 = 473.82 CB-12 = 473.82 CB-15 = 473.82	DMH-12 = 473.72	4-FT DIAMETER MANHOLE
DMH-14	2005+84.00	RT 3.5'	477.24	DMH-12 = 473.36 CB-16 = 473.36	DMH-15 = 473.26	4-FT DIAMETER MANHOLE
DMH-15	2006+83.00	RT 3.5'	476.95	DMH-16 = 473.13 DMH-14 = 472.88 CONNECT-03 = 473.13	DMH-17 = 472.63	4-FT DIAMETER MANHOLE
DMH-16	2006+82.97	LT 41.0'	476.61	CB-18 = 473.39 CB-17 = 473.39 CONNECT-02 = 473.39	DMH-15 = 473.29	4-FT DIAMETER MANHOLE
DMH-17	2007+45.00	RT 3.5'	476.79	CB-19 = 472.80 DMH-15 = 472.40	DMH-18 = 472.30	4-FT DIAMETER MANHOLE
DMH-18	2008+63.00	RT 5.0'	476.92	DMH-17 = 471.85 CB-20 = 472.10 DMH-19 = 472.10	DMH-21 = 471.60	5-FT DIAMETER MANHOLE
DMH-19	2008+63.26	RT 24.0'	476.16	CB-22A = 472.27 DMH-20 = 472.27 CB-22 = 472.27	DMH-18 = 472.17	4-FT DIAMETER MANHOLE
DMH-20	70+59.00	RT 1.0'	476.96	CB-23 = 472.53	DMH-19 = 472.43	4-FT DIAMETER MANHOLE
DMH-21	2009+65.00	T 0.0'	476.76	DMH-18 = 471.20 DMH-23 = 471.60 DMH-22 = 471.60	DMH-24 = 471.10	5-FT DIAMETER MANHOLE
DMH-22	3009+65.00	LT 11.0'	476.44	CB-25 = 471.75 CONNECT-07 = 471.85	DMH-21 = 471.75	4-FT DIAMETER MANHOLE
DMH-23	2009+65.00	RT 29.0'	476.32	CB-24 = 471.80 BEND-09 = 471.80	DMH-21 = 471.70	4-FT DIAMETER MANHOLE
DMH-24	2010+07.50	T 0.0'	476.89	DMH-21 = 470.95 DMH-26 = 470.95	DMH-25 = 470.85	6-FT DIAMETER MANHOLE
DMH-25	80+68.28	RT 39.7'	477.30	DMH-24 = 470.60 BEND-23 = -3.79		6-FT DIAMETER MANHOLE
DMH-26	2010+68.50	T 0.0'	477.03	DMH-27 = 471.27 CB-26 = 471.67 CB-27 = 471.67	DMH-24 = 471.17	6-FT DIAMETER MANHOLE
DMH-27	2010+89.00	LT 5.0'	477.22	DMH-28 = 471.58 CB-29 = 471.83 CB-30 = 471.83	DMH-26 = 471.33	6-FT DIAMETER MANHOLE
DMH-28	2011+65.00	LT 5.0'	477.62	DMH-30 = 471.96 CONNECT-08 = 472.36	DMH-27 = 471.86 DMH-29 = 472.52	5-FT DIAMETER MANHOLE
DMH-29	3011+65.00	LT 8.0'	477.12	DMH-28 = 472.36 BEND-10 = 472.62 BEND-24 = 472.62		4-FT DIAMETER MANHOLE
DMH-30	2012+43.00	T 0.0'	478.49	DMH-31 = 472.50 CB-34 = 472.50 CB-35 = 472.50	DMH-28 = 472.25	5-FT DIAMETER MANHOLE
DMH-31	2013+25.00	LT 5.0'	479.55	DMH-33 = 473.52 DMH-32 = 473.52	DMH-30 = 473.27	5-FT DIAMETER MANHOLE
DMH-32	2013+25.00	RT 39.0'	479.23	CB-37 = 474.02 CONNECT-10 = 474.02	DMH-31 = 473.92	4-FT DIAMETER MANHOLE
DMH-33	2014+52.00	LT 5.0'	481.43	DMH-34 = 475.00 DMH-35 = 475.00	DMH-31 = 474.75	4-FT DIAMETER MANHOLE
DMH-34	3014+53.00	LT 9.5'	481.30	CB-39 = 475.44 CB-43 = 475.44 CONNECT-11 = 475.44	DMH-33 = 475.34	4-FT DIAMETER MANHOLE
DMH-35	2014+84.00	LT 11.0'	481.93	CB-41 = 475.38 CB-40 = 475.38	DMH-33 = 475.28	4-FT DIAMETER MANHOLE
DMH-36	201+11.50	LT 6.0'	482.81	DMH-37 = 475.15		5-FT DIAMETER MANHOLE

STRUCTURE TABLE						
STRUCTURE #	STATION	OFFSET	RIM	PIPES IN	PIPES OUT	REMARKS
DMH-37	200+68.00	LT 1.0'	482.59	DMH-38 = 475.59 CB-45 = 476.84 CB-47 = 476.84	DMH-36 = 475.34	5-FT DIAMETER MANHOLE
DMH-38	200+40.00	LT 11.5'	483.21	DMH-43 = 476.22 DMH-39 = 476.22	DMH-37 = 475.72	6-FT DIAMETER MANHOLE
DMH-39	3015+45.00	RT 12.0'	482.83	CB-48 = 477.49 DMH-40 = 476.74	DMH-38 = 476.49	5-FT DIAMETER MANHOLE
DMH-40	302+12.51	LT 4.9'	483.15	DMH-41 = 477.46 DMH-48 = 477.46 CB-49 = 477.46	DMH-39 = 476.96	6-FT DIAMETER MANHOLE
DMH-41	301+64.00	LT 6.0'	483.45	DMH-42 = 477.93 CB-50 = 477.93	DMH-40 = 477.68	4-FT DIAMETER MANHOLE
DMH-42	301+16.00	LT 5.0'	483.67	CB-52 = 478.63 CB-51 = 478.63	DMH-41 = 478.37	4-FT DIAMETER MANHOLE
DMH-43	400+77.50	RT 22.5'	479.22	DMH-44 = 476.89 CB-53 = 477.14 CONNECT-14 = 477.14	DMH-38 = 476.64	4-FT DIAMETER MANHOLE
DMH-44	400+97.50	RT 20.0'	483.32	CB-55 = 478.55 DMH-45 = 477.30	DMH-43 = 477.05	4-FT DIAMETER MANHOLE
DMH-45	401+75.00	RT 16.0'	484.14	DMH-46 = 478.29 CB-56 = 478.54	DMH-44 = 478.04	4-FT DIAMETER MANHOLE
DMH-46	402+35.00	RT 13.0'	484.86	DMH-47 = 479.10 CB-57 = 479.10 = 479.51	DMH-45 = 478.85	4-FT DIAMETER MANHOLE
DMH-47	402+86.00	RT 4.0'	485.33	CB-58 = 479.82 CB-60 = 479.82 BEND-19 = 480.07	DMH-46 = 479.57	5-FT DIAMETER MANHOLE
DMH-48	501+50.00	LT 15.0'	484.57	DMH-49 = 478.38 CONNECT-12 = 478.38 CB-61 = 478.38	DMH-40 = 478.13	4-FT DIAMETER MANHOLE
DMH-49	501+94.00	LT 11.0'	485.26	CB-62 = 478.83 DMH-54 = 478.83 DMH-50 = 478.68	DMH-48 = 478.58	4-FT DIAMETER MANHOLE
DMH-50	502+74.00	T 0.0'	486.09	CB-66 = 479.16 DMH-51 = 479.16 CB-67 = 479.16	DMH-49 = 479.06	4-FT DIAMETER MANHOLE
DMH-51	503+13.00	T 0.0'	486.39	DMH-53 = 479.61 DMH-52 = 479.61	DMH-50 = 479.51	4-FT DIAMETER MANHOLE
DMH-52	503+13.00	LT 20.0'	485.94	CB-69 = 479.87	DMH-51 = 479.77	4-FT DIAMETER MANHOLE
DMH-53	503+59.00	RT 16.5'	484.24		DMH-51 = 480.06	4-FT DIAMETER MANHOLE
DMH-54	501+95.48	RT 20.4'	485.26	CB-63 = 479.20 DMH-55 = 479.20	DMH-49 = 479.10	4-FT DIAMETER MANHOLE
DMH-55	800+86.00	RT 11.0'	485.26	CB-65 = 479.94 CONNECT-17 = 479.94	DMH-54 = 479.69	4-FT DIAMETER MANHOLE
DMH-56	711+64.00	RT 5.0'	476.09	CB-71 = 471.73 CB-72 = 471.73	DMH-57 = 471.48	5-FT DIAMETER MANHOLE
DMH-57	711+25.00	RT 5.0'	476.35	CB-73 = 471.31 DMH-56 = 471.31	DMH-58 = 471.06	4-FT DIAMETER MANHOLE
DMH-58	710+22.00	RT 5.0'	477.08	DMH-59 = 470.81 DMH-57 = 470.56	DMH-60 = 470.31	4-FT DIAMETER MANHOLE
DMH-59	710+22.00	RT 41.0'	476.65	CB-75 = 471.38 EX-CB-11 = 471.38	DMH-58 = 471.13	4-FT DIAMETER MANHOLE
DMH-60	708+95.00	RT 5.0'	476.53	CB-76 = 469.95 DMH-58 = 469.70	DMH-61 = 469.45	4-FT DIAMETER MANHOLE
DMH-61	708+41.50	RT 5.0'	476.27	CB-77 = 469.20 DMH-60 = 468.95	DMH-62 = 468.70	4-FT DIAMETER MANHOLE
DMH-62	707+87.00	T 0.0'	476.15	CB-78 = 468.95 DMH-61 = 468.20	DMH-63 = 467.95	4-FT DIAMETER MANHOLE
DMH-63	707+78.50	LT 22.0'	475.72	CB-80 = 468.50 DMH-62 = 467.75		4-FT DIAMETER MANHOLE
EX-DMH-01	81+66.78	LT 20.3'	476.79			ADJUST
EX-DMH-02	81+92.08	RT 57.2'	476.25			ADJUST
EX-DMH-03	900+82.24	LT 4.1'	0.00			ADJUST
EX-DMH-04	900+75.03	RT 8.1'	0.00			ADJUST
EX-DMH-05	103+45.00	LT 7.5'	0.00			ADJUST

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Title
DRAINAGE STRUCTURE TABLE
(SHEET 02 OF 02)

Project No.
179450806

Scale
1"=20'

Revision
0

Sheet
84 of 232

Drawing No.
DRN-08

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PIPE TABLE						
NAME	SIZE	MATERIAL	LENGTH	PIPE START	PIPE END	SLOPE
P-01	12"	HDPE	17'	EX-CB-01	CB-01	0.55%
P-02	12"	HDPE	7'	CB-01	DMH-01	0.45%
P-03	12"	HDPE	43'	CB-02	DMH-01	0.75%
P-04	12"	HDPE	26'	DMH-01	DMH-02	0.50%
P-05	24"	HDPE	66'	DMH-02	DMH-03	0.33%
P-06	24"	HDPE	97'	DMH-04	DMH-02	0.29%
P-07	12"	HDPE	6'	CB-03	DMH-04	0.50%
P-08	12"	HDPE	43'	CB-05	DMH-04	0.50%
P-10	24"	HDPE	62'	DMH-05	DMH-04	0.28%
P-15	12"	HDPE	54'	EX-CB-04	DMH-05	1.50%
P-16	12"	HDPE	43'	CB-06	DMH-05	0.53%
P-17	24"	HDPE	15'	DMH-06	DMH-05	0.28%
P-18	12"	HDPE	6'	CB-07	DMH-06	3.33%
P-19	12"	HDPE	29'	CB-08	CB-07	0.52%
P-20	24"	HDPE	36'	DMH-07	DMH-06	0.28%
P-21	12"	HDPE	48'	DMH-08	DMH-07	0.80%
P-22	24"	HDPE	38'	DMH-09	DMH-07	0.47%
P-23	15"	HDPE	33'	DMH-09A	DMH-09	0.40%
P-24	12"	HDPE	14'	DMH-10	DMH-09	0.43%
P-25	12"	HDPE	46'	CB-11	DMH-09A	0.40%
P-26	12"	HDPE	65'	DMH-11	DMH-10	0.40%
P-27	12"	HDPE	9'	CB-10	DMH-10	0.44%
P-28	12"	HDPE	46'	EX-CB-06	DMH-11	0.50%
P-29	12"	HDPE	16'	CB-09	DMH-09A	0.40%
P-29A	12"	HDPE	10'	CB-09A	CB-09	0.40%
P-29B	12"	HDPE	17'	CB-09B	DMH-09A	0.40%
P-30	12"	HDPE	32'	CB-13	DMH-13	0.40%
P-31	12"	HDPE	8'	CB-12	DMH-13	0.40%
P-32	12"	HDPE	23'	CB-15	DMH-13	0.40%
P-33	12"	HDPE	15'	DMH-13	DMH-12	0.40%
P-34	12"	HDPE	53'	CB-14	DMH-12	0.40%
P-35	12"	HDPE	49'	DMH-12	DMH-14	0.40%
P-36	12"	HDPE	40'	CB-16	DMH-14	0.40%
P-37	15"	HDPE	95'	DMH-14	DMH-15	0.40%
P-38	12"	HDPE	34'	CB-17	DMH-16	0.39%
P-39	12"	HDPE	28'	CB-18	DMH-16	0.39%
P-40	12"	HDPE	41'	DMH-16	DMH-15	0.39%
P-41	24"	HDPE	58'	DMH-15	DMH-17	0.40%
P-42	12"	HDPE	22'	CB-19	DMH-17	0.50%
P-43	24"	HDPE	114'	DMH-17	DMH-18	0.40%
P-44	12"	HDPE	52'	CB-20	DMH-18	0.40%
P-45	12"	HDPE	34'	CB-21	CB-20	0.40%
P-46	12"	HDPE	15'	DMH-19	DMH-18	0.50%
P-47	12"	HDPE	8'	CB-22	DMH-19	0.50%
P-47A	12"	HDPE	28'	CB-22A	DMH-19	0.50%
P-48	12"	HDPE	31'	DMH-20	DMH-19	0.50%
P-49	12"	HDPE	7'	CB-23	DMH-20	0.50%
P-50	30"	HDPE	97'	DMH-18	DMH-21	0.41%
P-51	12"	HDPE	25'	DMH-23	DMH-21	0.41%
P-52	12"	HDPE	16'	CB-24	DMH-23	0.62%
P-53	12"	HDPE	37'	DMH-22	DMH-21	0.41%
P-54	12"	HDPE	11'	CB-25	DMH-22	0.45%
P-55	30"	HDPE	37'	DMH-21	DMH-24	0.41%
P-56	36"	HDPE	63'	DMH-24	DMH-25	0.40%
P-57	30"	HDPE	55'	DMH-26	DMH-24	0.40%
P-58	12"	HDPE	5'	CB-26	DMH-26	0.50%
P-59	12"	HDPE	5'	CB-27	DMH-26	0.56%
P-60	12"	HDPE	29'	CB-28	CB-27	0.42%
P-61	30"	HDPE	15'	DMH-27	DMH-26	0.40%
P-62	12"	HDPE	29'	CB-29	DMH-27	0.50%

PIPE TABLE						
NAME	SIZE	MATERIAL	LENGTH	PIPE START	PIPE END	SLOPE
P-63	12"	HDPE	47'	CB-30	DMH-27	0.40%
P-64	24"	HDPE	71'	DMH-28	DMH-27	0.40%
P-65	12"	HDPE	33'	DMH-28	DMH-29	0.50%
P-66	24"	HDPE	73'	DMH-30	DMH-28	0.40%
P-67	12"	HDPE	6'	CB-35	DMH-30	1.00%
P-68	12"	HDPE	6'	CB-34	DMH-30	0.50%
P-69	12"	HDPE	30'	CB-33	CB-34	0.50%
P-70	12"	HDPE	32'	CB-36	CB-35	1.00%
P-71	18"	HDPE	77'	DMH-31	DMH-30	1.00%
P-72	12"	HDPE	40'	DMH-32	DMH-31	1.00%
P-73	12"	HDPE	23'	CB-37	DMH-32	1.00%
P-74	15"	HDPE	123'	DMH-33	DMH-31	1.00%
P-75	12"	HDPE	35'	DMH-34	DMH-33	1.00%
P-76	12"	HDPE	21'	CB-39	DMH-34	1.00%
P-77	12"	HDPE	25'	CB-38	CB-39	1.00%
P-78	12"	HDPE	47'	CB-43	DMH-34	1.00%
P-79	12"	HDPE	34'	CB-44	CB-43	1.00%
P-80	12"	HDPE	29'	DMH-35	DMH-33	1.00%
P-81	12"	HDPE	22'	CB-40	DMH-35	1.00%
P-82	12"	HDPE	18'	CB-41	DMH-35	1.00%
P-83	12"	HDPE	19'	CB-42	CB-41	1.00%
P-84	30"	HDPE	39'	DMH-37	DMH-36	0.50%
P-85	12"	HDPE	9'	CB-45	DMH-37	1.00%
P-86	12"	HDPE	20'	CB-46	CB-45	1.00%
P-87	12"	HDPE	19'	CB-47	DMH-37	1.00%
P-88	30"	HDPE	24'	DMH-38	DMH-37	0.50%
P-89	24"	HDPE	55'	DMH-39	DMH-38	0.50%
P-90	12"	HDPE	6'	CB-48	DMH-39	1.00%
P-91	24"	HDPE	44'	DMH-40	DMH-39	0.50%
P-92	12"	HDPE	30'	CB-49	DMH-40	1.00%
P-93	15"	HDPE	44'	DMH-41	DMH-40	0.50%
P-94	12"	HDPE	27'	CB-50	DMH-41	1.00%
P-95	6"	HDPE	5'	BEND-15	CB-50	0.50%
P-96	6"	HDPE	2'	BMP-03	BEND-15	0.50%
P-97	12"	HDPE	44'	DMH-42	DMH-41	1.00%
P-98	12"	HDPE	5'	CB-51	DMH-42	1.00%
P-99	12"	HDPE	34'	CB-52	DMH-42	1.50%
P-100	24"	HDPE	42'	DMH-43	DMH-38	1.00%
P-101	12"	HDPE	8'	CB-53	DMH-43	1.00%
P-102	12"	HDPE	19'	CB-54	CB-53	1.00%
P-103	24"	HDPE	16'	DMH-44	DMH-43	1.00%
P-104	12"	HDPE	5'	CB-55	DMH-44	1.00%
P-105	18"	HDPE	74'	DMH-45	DMH-44	1.00%
P-106	12"	HDPE	32'	CB-56	DMH-45	1.00%
P-107	15"	HDPE	56'	DMH-46	DMH-45	1.00%
P-108	12"	HDPE	18'	CB-57	DMH-46	1.00%
P-109	12"	HDPE	47'	DMH-47	DMH-46	1.00%
P-110	12"	HDPE	19'	CB-58	DMH-47	1.00%
P-111	6"	HDPE	4'	BEND-17	CB-58	1.00%
P-112	6"	HDPE	2'	BMP-05	BEND-17	1.00%
P-113	12"	HDPE	34'	CB-60	DMH-47	1.00%
P-114	6"	HDPE	15'	BEND-19	DMH-47	1.00%
P-115	6"	HDPE	2'	BMP-04	BEND-19	1.00%
P-116	6"	HDPE	3'	BEND-20	BMP-04	1.00%
P-117	6"	HDPE	12'	CB-59	BEND-20	1.00%
P-118	24"	HDPE	133'	DMH-48	DMH-40	0.50%
P-119	18"	HDPE	40'	DMH-49	DMH-48	0.50%
P-120	12"	HPDE	22'	CB-61	DMH-48	1.00%
P-121	12"	HDPE	26'	CB-62	DMH-49	1.00%
P-122	12"	HDPE	27'	DMH-54	DMH-49	1.00%

PIPE TABLE						
NAME	SIZE	MATERIAL	LENGTH	PIPE START	PIPE END	SLOPE
P-123	12"	HDPE	16'	CB-63	DMH-54	1.00%
P-124	12"	HDPE	33'	CB-64	CB-63	1.00%
P-125	12"	HDPE	49'	DMH-55	DMH-54	1.00%
P-126	12"	HDPE	47'	CB-65	DMH-55	1.00%
P-127	18"	HDPE	77'	DMH-50	DMH-49	0.50%
P-128	12"	HDPE	18'	CB-66	DMH-50	1.00%
P-129	12"	HDPE	31'	CB-67	DMH-50	1.00%
P-130	12"	HDPE	9'	CB-68	CB-67	1.00%
P-131	18"	HDPE	35'	DMH-51	DMH-50	1.00%
P-132	15"	HDPE	16'	DMH-52	DMH-51	1.00%
P-133	12"	HDPE	7'	CB-69	DMH-52	1.00%
P-134	12"	HDPE	18'	CB-70	CB-69	1.00%
P-135	15"	HDPE	45'	DMH-53	DMH-51	1.00%
P-136	12"	HDPE	22'	CB-71	DMH-56	0.50%
P-137	12"	HDPE	16'	CB-72	DMH-56	0.50%
P-138	12"	HDPE	34'	DMH-56	DMH-57	0.50%
P-139	12"	HDPE	31'	CB-73	DMH-57	1.00%
P-140	12"	HDPE	20'	CB-74	CB-73	1.00%
P-141	15"	HDPE	99'	DMH-57	DMH-58	0.50%
P-142	12"	HDPE	32'	DMH-59	DMH-58	1.00%
P-143	12"	HDPE	24'	EX-CB-11	DMH-59	1.00%
P-144	12"	HDPE	25'	CB-75	DMH-59	0.50%
P-145	18"	HDPE	123'	DMH-58	DMH-60	0.50%
P-146	12"	HDPE	12'	CB-76	DMH-60	1.00%
P-147	18"	HDPE	49'	DMH-60	DMH-61	1.00%
P-148	12"	HDPE	32'	CB-77	DMH-61	1.00%
P-149	18"	HDPE	51'	DMH-61	DMH-62	1.00%
P-150	12"	HDPE	36'	CB-78	DMH-62	1.00%
P-151	12"	HDPE	24'	CB-79	CB-78	1.00%
P-152	24"	HDPE	20'	DMH-62	DMH-63	1.00%
P-153	12"	HDPE	8'	CB-80	DMH-63	1.00%
P-154	12"	HDPE	25'	BEND-24	DMH-29	1.00%
P-155	12"	HDPE	6'	BMP-01	BEND-24	1.00%
P-156	12"	HDPE	1'	BEND-25	BMP-01	1.00%
P-157	12"	HDPE	11'	CB-31	BEND-25	1.00%
P-158	12"	HDPE	3'	BEND-26	CB-33	0.50%
P-159	12"	HDPE	3'	BMP-02	BEND-26	0.50%
P-160	12"	HDPE	8'	BEND-27	BMP-02	0.50%
P-161	12"	HDPE	4'	CB-32	BEND-27	0.50%
UND-01	10"	HDPE	42'	BEND-01	DMH-11	0.50%
UND-02	10"	HDPE	3'	BUILDING	BEND-01	0.50%
UND-03	8"	HDPE	5'	BUILDING	BEND-02	0.50%
UND-04	8"	HDPE	28'	BEND-02	CONNECT-02	0.50%
UND-05	8"	HDPE	35'	CONNECT-02	DMH-16	0.50%
UND-06	8"	HDPE	42'	BEND-03	CONNECT-02	0.50%
UND-07	8"	HDPE	5'	BUILDING	BEND-03	0.50%
UND-08	8"	HDPE	40'	CONNECT-03	DMH-15	0.50%
UND-09	8"	HDPE	5'	BUILDING	CONNECT-03	0.50%
UND-10	8"	HDPE	24'	CONNECT-04	CONNECT-03	0.50%
UND-11	8"	HDPE	9'	BUILDING	CONNECT-04	0.50%
UND-12	8"	HDPE	41'	CONNECT-05	CONNECT-04	0.50%
UND-13	8"	HDPE	6'	BUILDING	CONNECT-05	0.50%
UND-14	8"	HDPE	44'	BEND-04	CONNECT-05	0.50%
UND-15	8"	HDPE	8'	BUILDING	BEND-04	0.50%
UND-16	8"	HDPE	20'	CONNECT-06	BEND-09	0.50%
UND-17	8"	HDPE	16'	BEND-09	DMH-23	0.50%
UND-18	8"	HDPE	10'	BUILDING	CONNECT-06	0.50%
UND-19	8"	HDPE	30'	BEND-06	CONNECT-06	0.50%
UND-20	8"	HDPE	7'	BUILDING	BEND-06	0.50%
UND-21	8"	HDPE	36'	CONNECT-07	DMH-22	0.50%

PIPE TABLE						
NAME	SIZE	MATERIAL	LENGTH	PIPE START	PIPE END	SLOPE
UND-22	8"	HDPE	7'	BUILDING	CONNECT-07	0.50%
UND-23	8"	HDPE	45'	BEND-07	CONNECT-07	0.50%
UND-24	8"	HDPE	6'	BUILDING	BEND-07	0.50%
UND-25	6"	HDPE	45'	BEND-08	CB-30	0.50%
UND-26	6"	HDPE	6'	BUILDING	BEND-08	0.50%
UND-27	10"	HDPE	11'	BUILDING	BEND-05	1.00%
UND-28	10"	HDPE	26'	BEND-05	CONNECT-08	1.00%
UND-29	10"	HDPE	7'	BUILDING	CONNECT-08	1.00%
UND-30	10"	HDPE	59'	CONNECT-08	DMH-28	1.00%
UND-31	6"	HDPE	6'	BUILDING	CB-71	0.50%
UND-32	8"	HDPE	47'	BEND-10	DMH-29	1.00%
UND-33	8"	HDPE	26'	CONNECT-09	BEND-10	1.00%
UND-34	8"	HDPE	5'	BUILDING	CONNECT-09	1.00%
UND-35	8"	HDPE	36'	BEND-11	CONNECT-09	1.00%
UND-36	8"	HDPE	6'	BUILDING	BEND-11	1.00%
UND-37	8"	HDPE	32'	CONNECT-10	DMH-32	1.00%
UND-38	8"	HDPE	35'	BEND-12	CONNECT-10	1.00%
UND-39	8"	HDPE	8'	BUILDING	CONNECT-10	1.00%
UND-40	8"	HDPE	7'	BUILDING	BEND-12	1.00%
UND-41	8"	HDPE	50'	CONNECT-11	DMH-34	1.00%
UND-42	8"	HDPE	5'	BUILDING	BEND-13	1.00%
UND-43	8"	HDPE	16'	BEND-13	CONNECT-11	1.00%
UND-44	8"	HDPE	5'	BUILDING	CONNECT-11	1.00%
UND-45	8"	HDPE	55'	CONNECT-12	DMH-48	1.00%
UND-46	8"	HDPE	8'	BUILDING	BEND-14	1.00%
UND-47	8"	HDPE	28'	BEND-14	CONNECT-13	1.00%
UND-48	6"	HDPE	8'	BUILDING	CONNECT-13	1.00%
UND-49	8"	HDPE	43'	CONNECT-13	CONNECT-12	1.00%
UND-50	8"	HDPE	8'	BUILDING	CONNECT-12	1.00%
UND-51	8"	HDPE	43'	CONNECT-14	DMH-43	1.00%
UND-52	8"	HDPE	6'	BUILDING	CONNECT-14	1.00%
UND-53	8"	HDPE	40'	BEND-16	CONNECT-14	1.00%
UND-54	8"	HDPE	5'	BUILDING	BEND-16	1.00%
UND-55	8"	HDPE	41'	BUILDING	DMH-46	1.00%
UND-56	8"	HDPE	19'	CONNECT-15	CB-62	1.00%
UND-57	6"	HDPE	5'	BUILDING	CONNECT-15	1.00%
UND-58	8"	HDPE	22'	CONNECT-16	CONNECT-15	1.00%
UND-59	6"	HDPE	5'	BUILDING	CONNECT-16	1.00%
UND-60	8"	HDPE	14'	BEND-21	CONNECT-16	1.00%
UND-61	8"	HDPE	5'	BUILDING	BEND-21	1.00%
UND-62	8"	HDPE	56'	CONNECT-17	DMH-55	1.00%
UND-63	8"	HDPE	11'	BUILDING	CONNECT-18	1.00%
UND-64	8"	HDPE	37'	CONNECT-17	CONNECT-18	1.00%
UND-65	8"	HDPE	11'	BUILDING	CONNECT-17	1.00%
UND-66	8"	HDPE	64'	BEND-22	CONNECT-18	1.00%
UND-67	8"	HDPE	11'	BUILDING	BEND-22	1.00%
UND-68	6"	HDPE	15'	BUILDING	CB-72	1.00%
UND-69	6"	HDPE	21'	BEND-18	CB-60	1.00%
UND-70	6"	HDPE	5'	BUILDING	BEND-18	1.00%
UND-71	6"	HDPE	58'	BEND-23	DMH-25	0.40%
UND-72	6"	HDPE	5'	BUILDING	BEND-23	0.40%

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Revision | By | Appd | YYYY-MM-DD

Issued | By | Appd | YYYY-MM-DD

File Name: 50806_DRN | DJF Dwn. | DJF Dsgn. | DEM Chkd. | 2025-01-28 YYYY-MM-DD

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KEENE DOWNTOWN IMPROVEMENTS

KEENE, NEW HAMPSHIRE

Title
DRAINAGE PIPE TABLE

Project No.
179450806

Scale
1"=20'

Revision
0

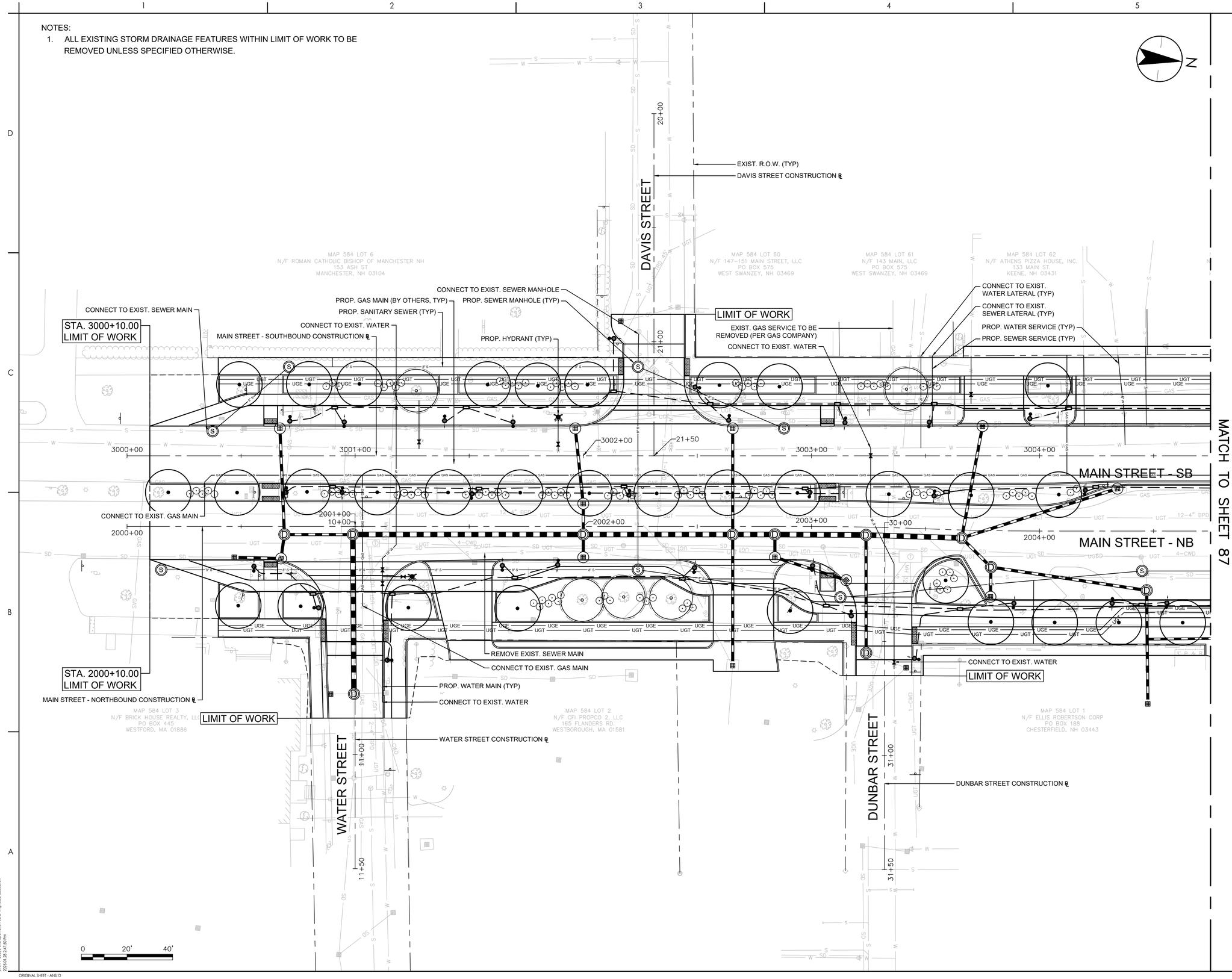
Sheet
85 of 232

Drawing No.
DRN-09

ORIGINAL SHEET - ANSI D

NOTES:

1. ALL EXISTING STORM DRAINAGE FEATURES WITHIN LIMIT OF WORK TO BE REMOVED UNLESS SPECIFIED OTHERWISE.



ORIGINAL SHEET - ANSI D

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Revision	By	Appd	YYYY-MM-DD

Issued	By	Appd	YYYY-MM-DD

File Name: 50806_UTL	DJF	DJF	DEM	2025-01-28
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KEENE, NEW HAMPSHIRE

Title
UTILITY LAYOUT PLAN
(SHEET 01 OF 06)

Project No.	Scale
179450806	1"=20'

Revision	Sheet	Drawing No.
0	86 of 232	UTL-01

NOTES:

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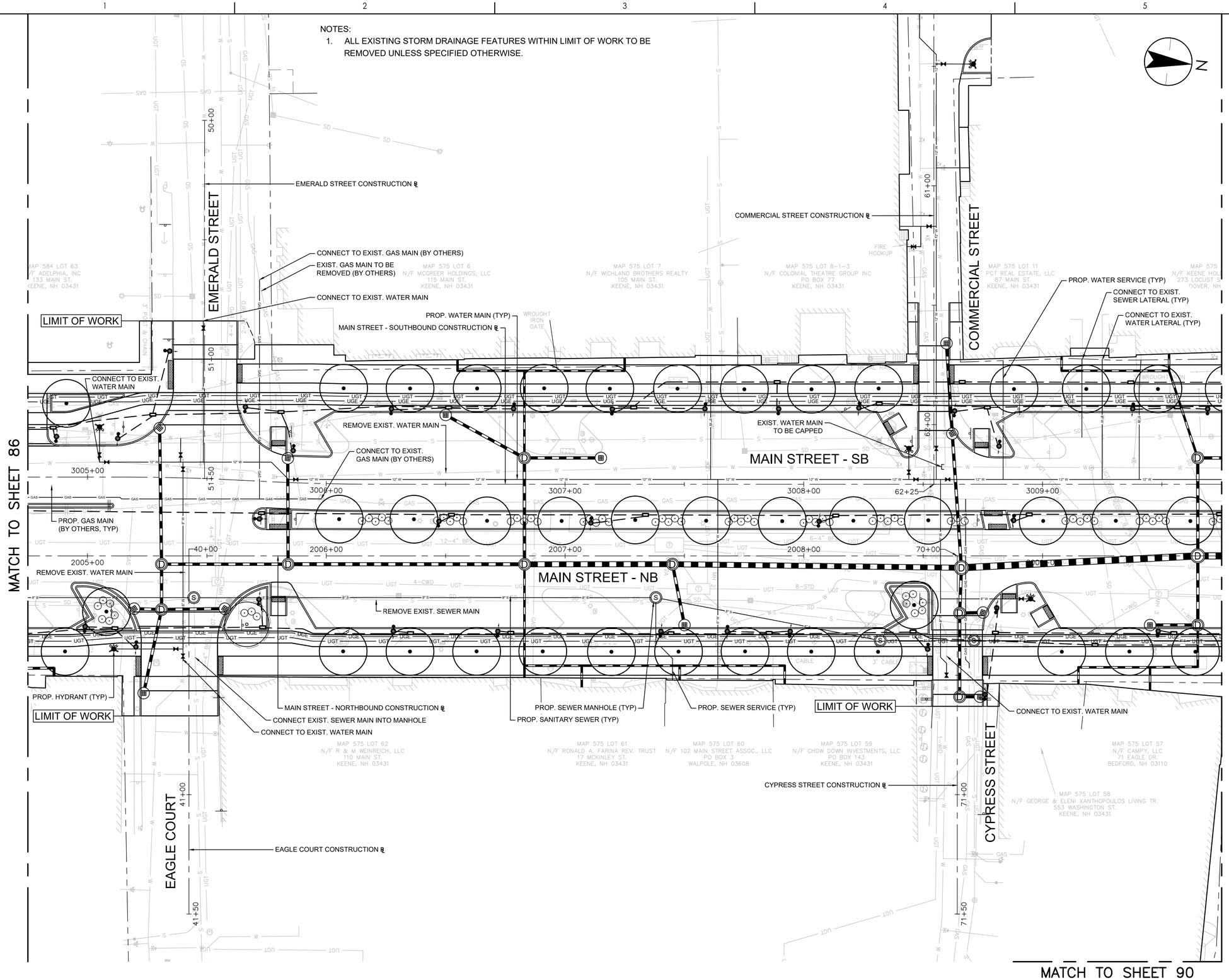

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Issued	By	Appd	YYYY-MM-DD
File Name: 50806_UTL	DJF Dwn.	DJF Dsgn.	DEM Chkd.	2025-01-28 YYYY-MM-DD

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Title
UTILITY LAYOUT PLAN
(SHEET 02 OF 06)

Project No.	Scale
179450806	1"=20'

Revision	Sheet	Drawing No.
0	87 of 232	UTL-02

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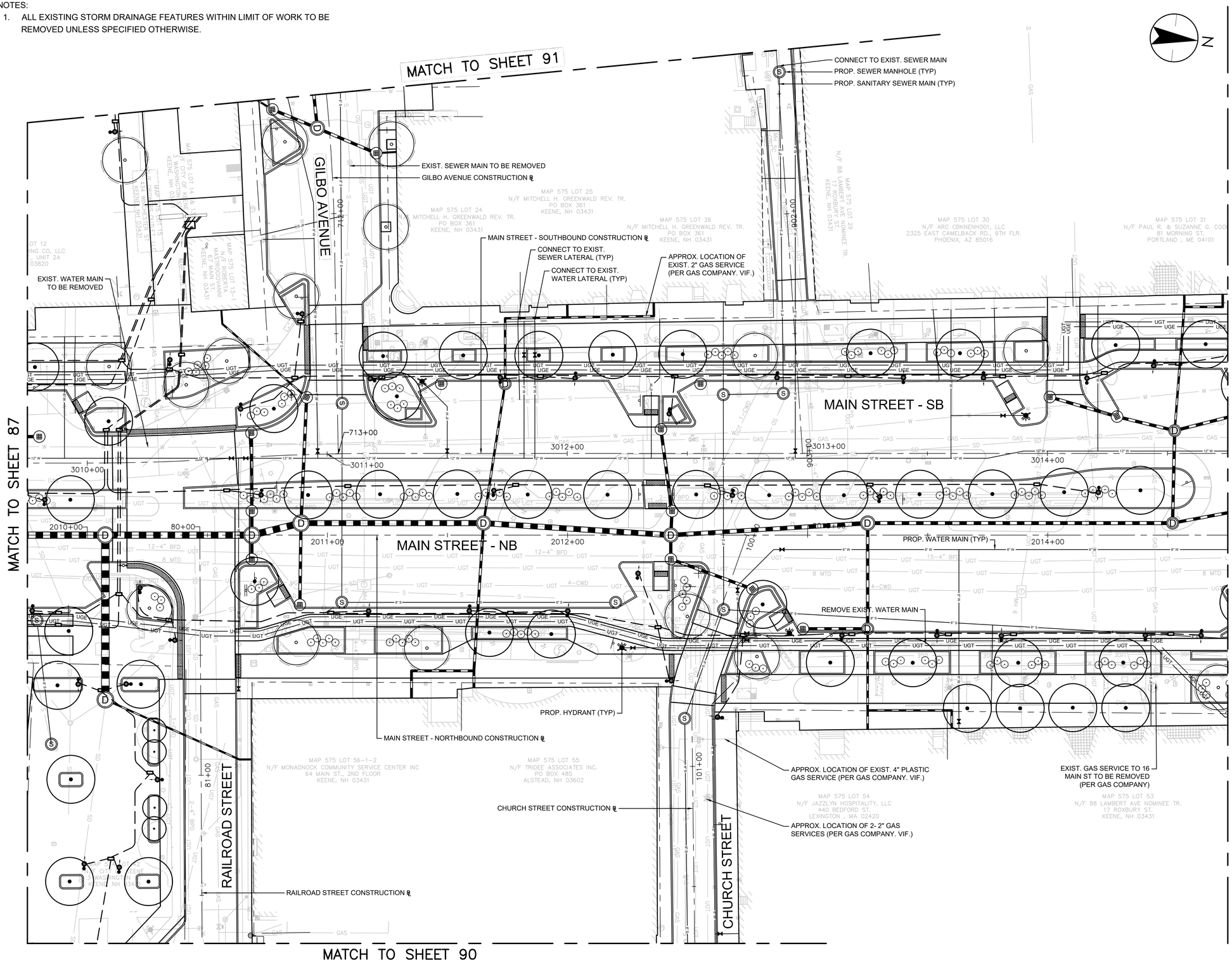
ORIGINAL SHEET - ANSI D

NOTES:

1. ALL EXISTING STORM DRAINAGE FEATURES WITHIN LIMIT OF WORK TO BE REMOVED UNLESS SPECIFIED OTHERWISE.



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File Name: 50806_UTL	DJF	DJF	DEM	2025-01-28
	Dwn.	Dsgn.	Chkd.	YYYY-MM-DD

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KEENE DOWNTOWN IMPROVEMENTS

KEENE, NEW HAMPSHIRE

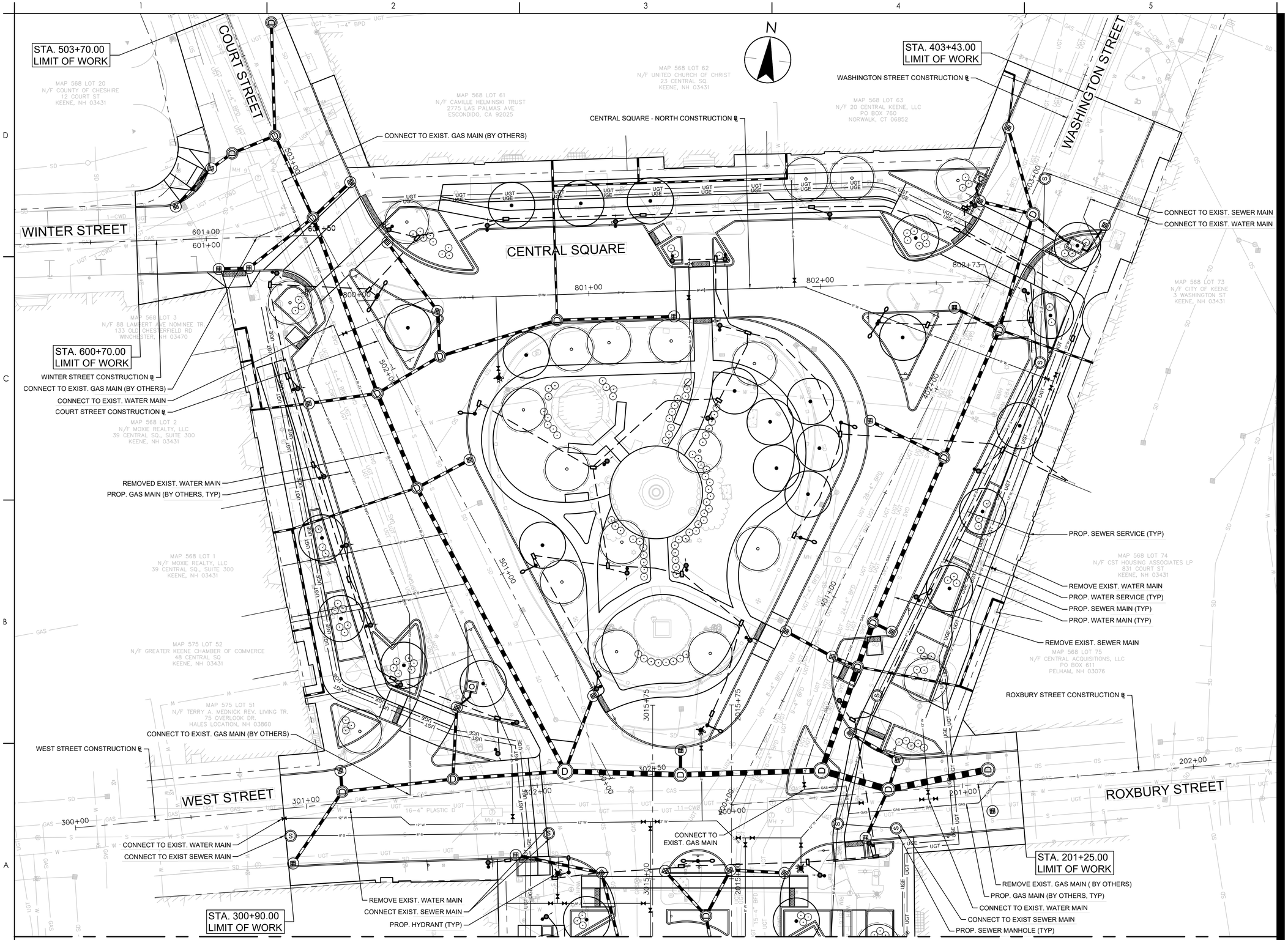
Title

UTILITY LAYOUT PLAN (SHEET 03 OF 06)

Project No.	Scale
179450806	1"=20'

Revision	Sheet	Drawing No.
0	88 of 232	UTL-03

ORIGINAL SHEET - ANSI D



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KEENE, NEW HAMPSHIRE

Title
UTILITY LAYOUT PLAN
(SHEET 04 OF 06)

Project No.	Scale
179450806	1"=20'

Revision	Sheet	Drawing No.
0	89 of 232	UTL-04

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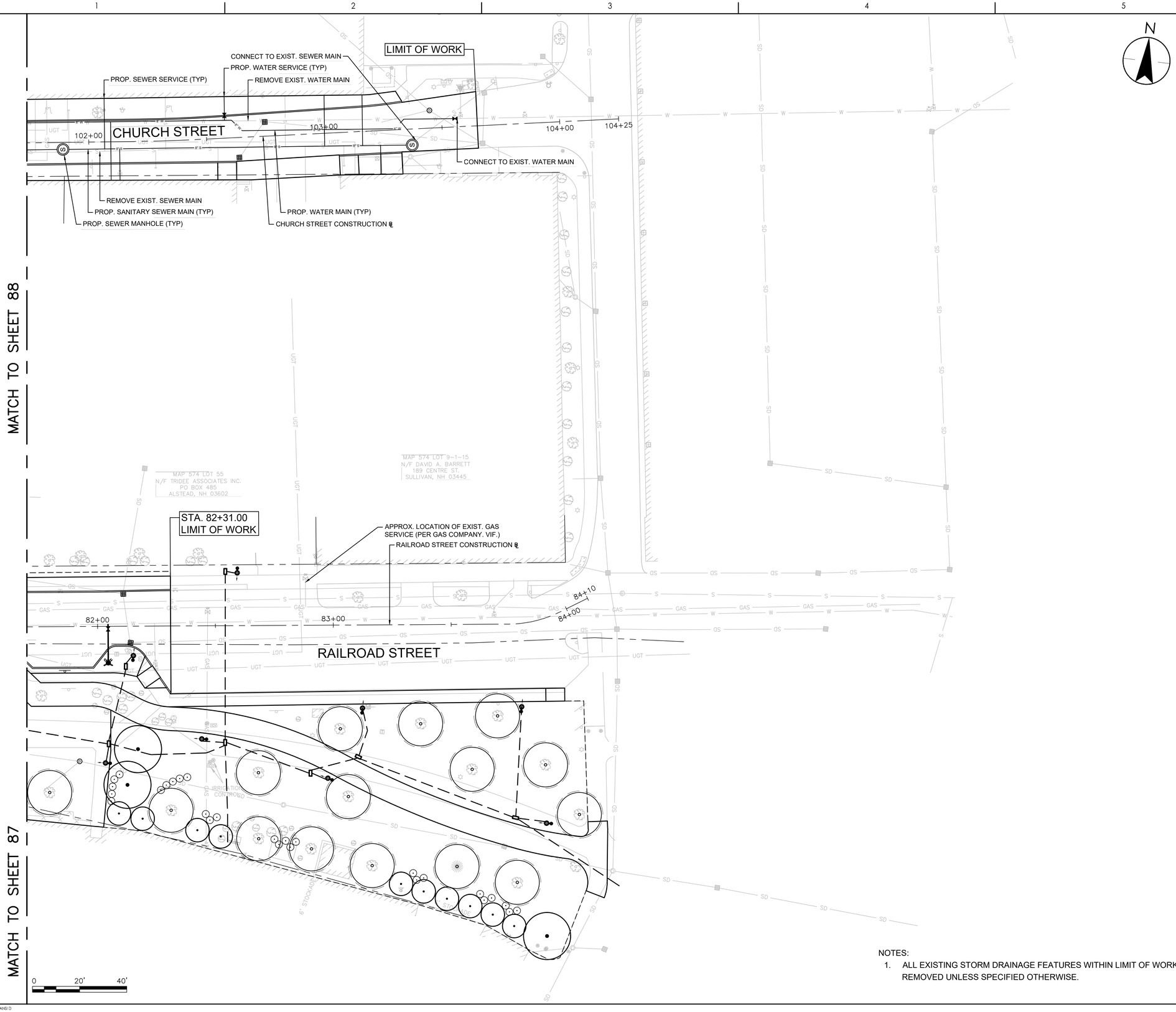

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KEENE, NEW HAMPSHIRE

Title
UTILITY LAYOUT PLAN
(SHEET 05 OF 06)

Project No.	Scale
179450806	1"=20'

Revision	Sheet	Drawing No.
0	90 of 232	UTL-05

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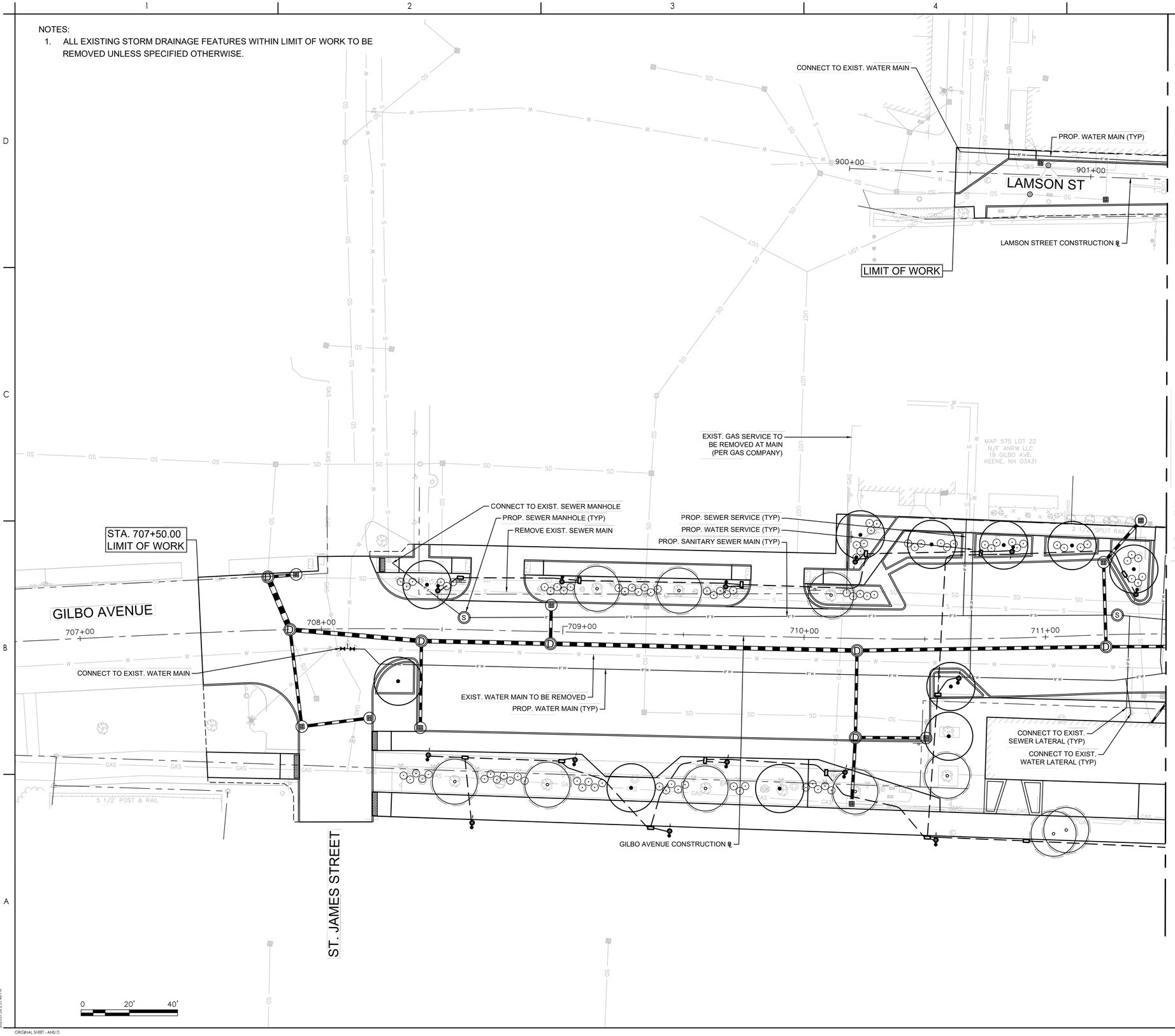

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Title
UTILITY LAYOUT PLAN
(SHEET 06 OF 06)

Project No.
179450806

Scale
1"=20'

Revision
0

Sheet
91 of 232

Drawing No.
UTL-06

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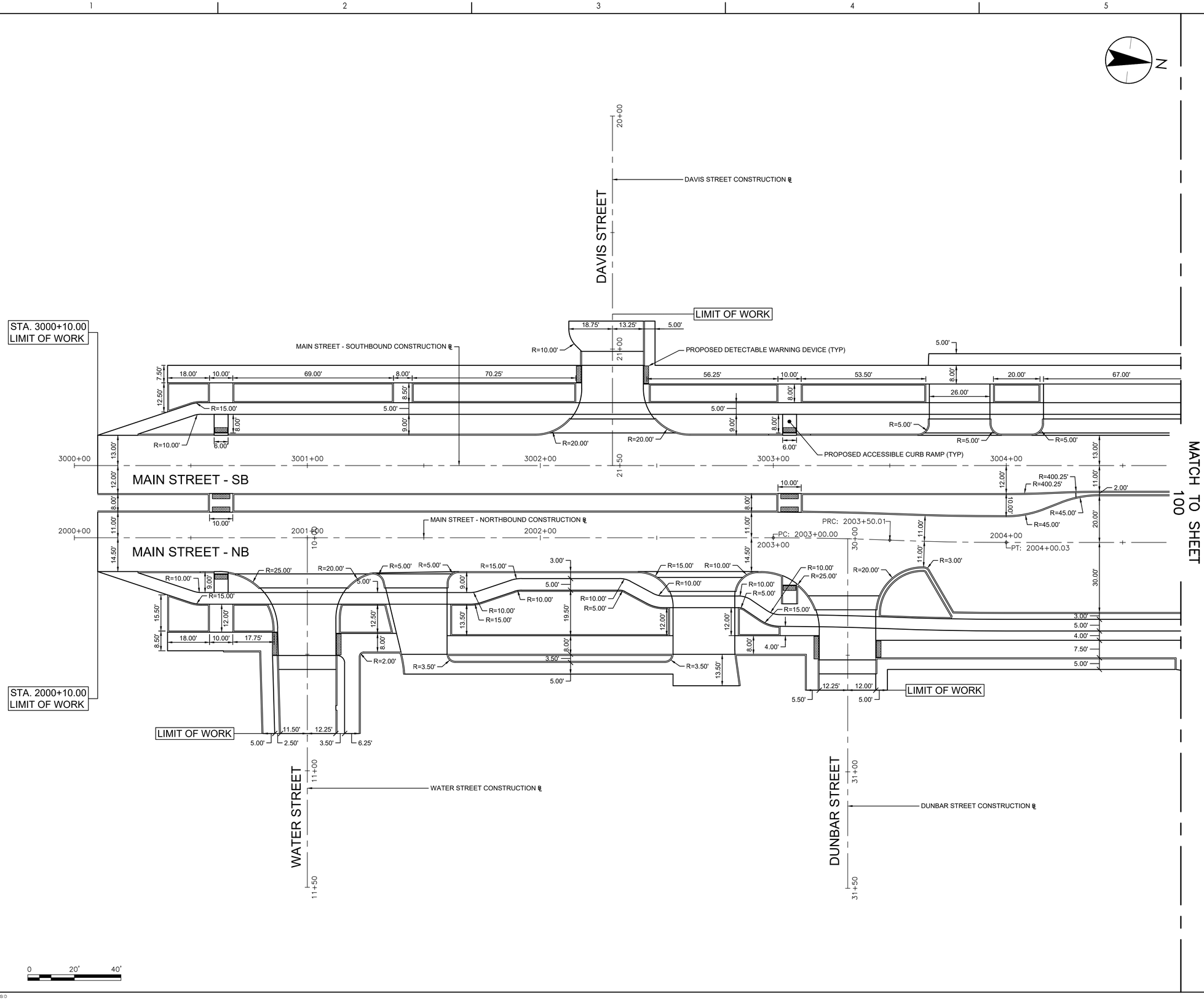

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Title
ROADWAY LAYOUT PLAN
(SHEET 01 OF 06)

Project No.	Scale
179450806	1"=20'

Revision	Sheet	Drawing No.
0	99 of 232	**LAY-01**

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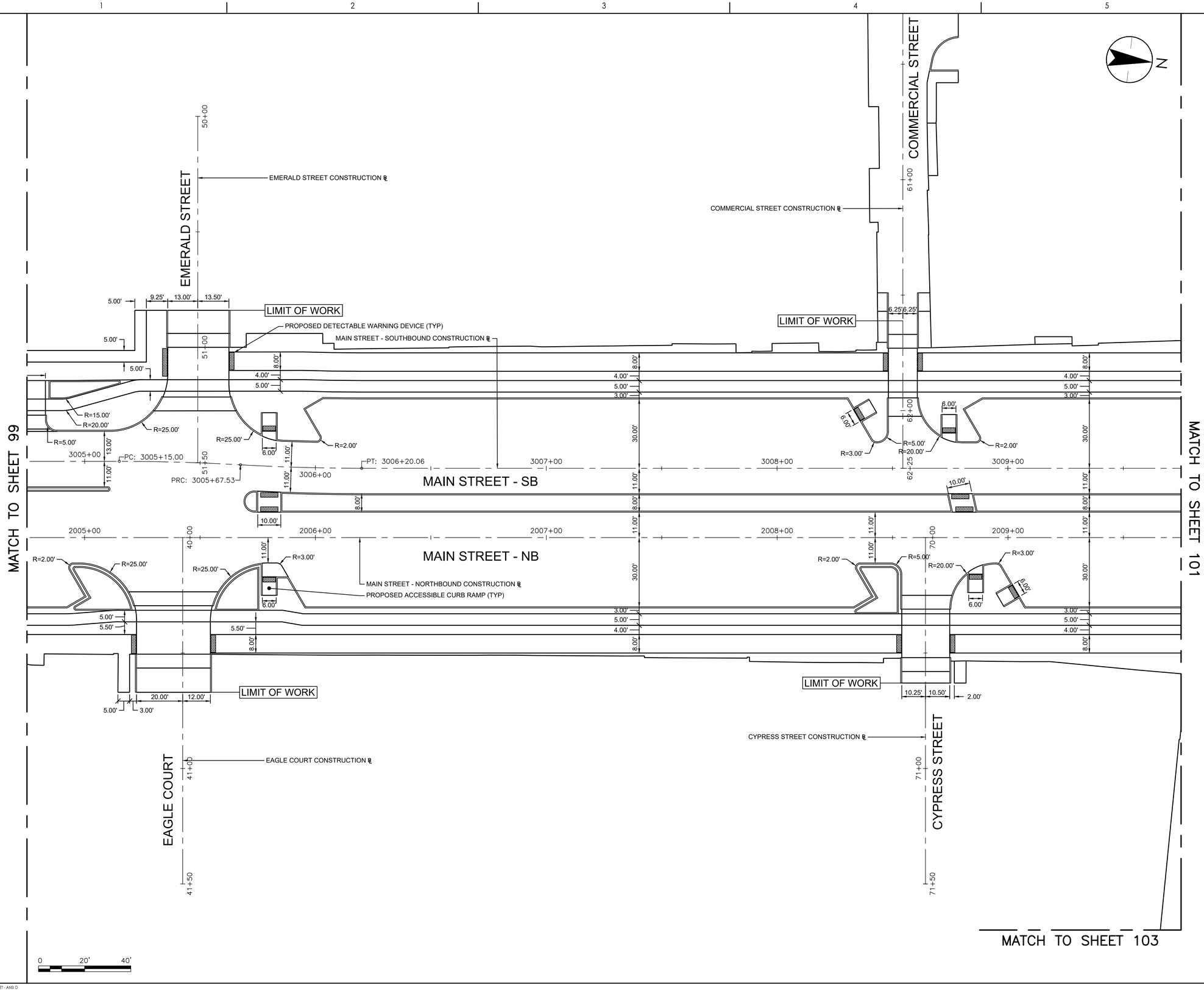

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Title
ROADWAY LAYOUT PLAN
(SHEET 02 OF 06)

Project No.	Scale
179450806	1"=20'
Revision: 0	Sheet: 100 of 232
Drawing No.	**LAY-02**

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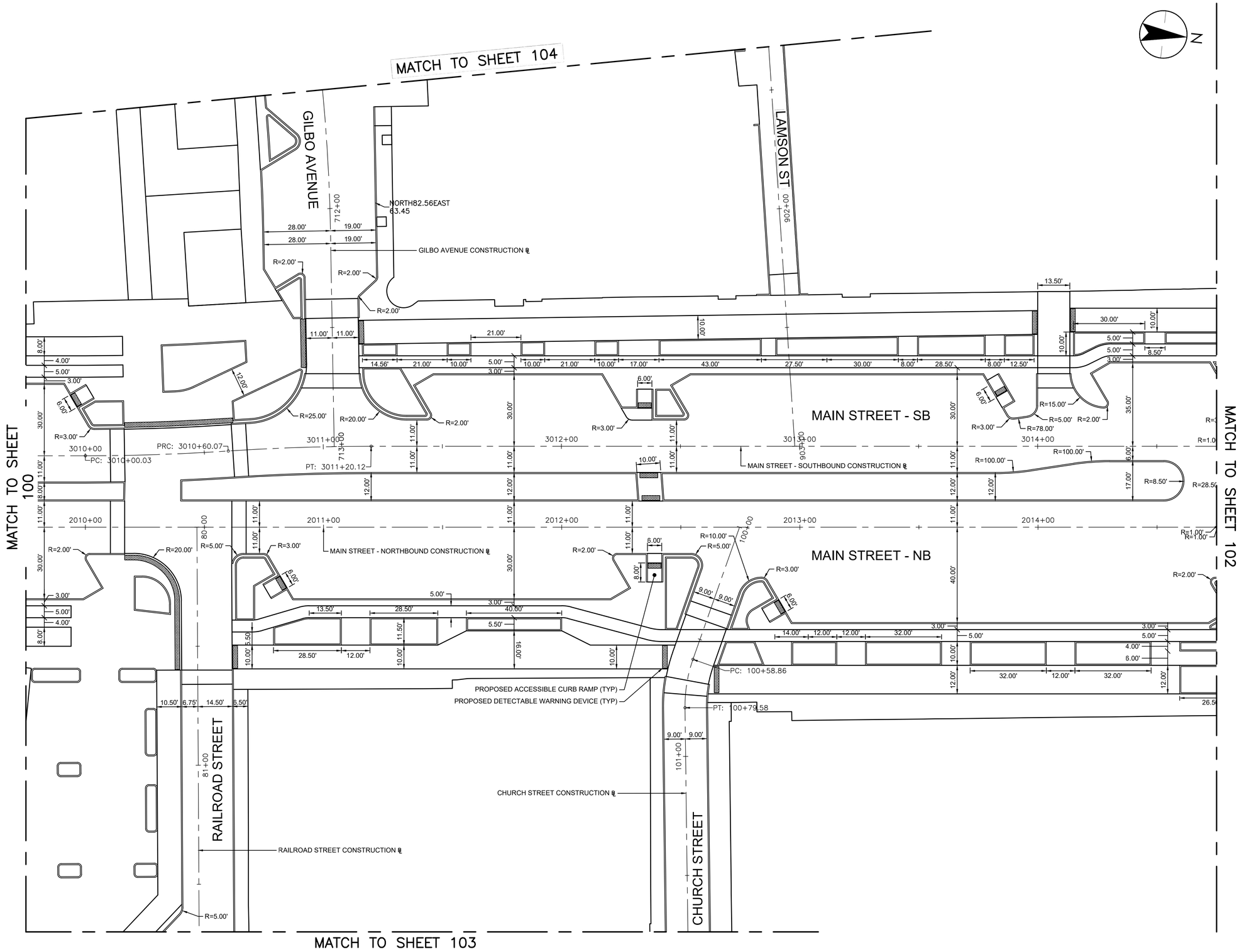

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Title
ROADWAY LAYOUT PLAN
(SHEET 03 OF 06)

Project No.	Scale
179450806	1"=20'
Revision: 0	Sheet: 101 of 232
Drawing No.	**LAY-03**

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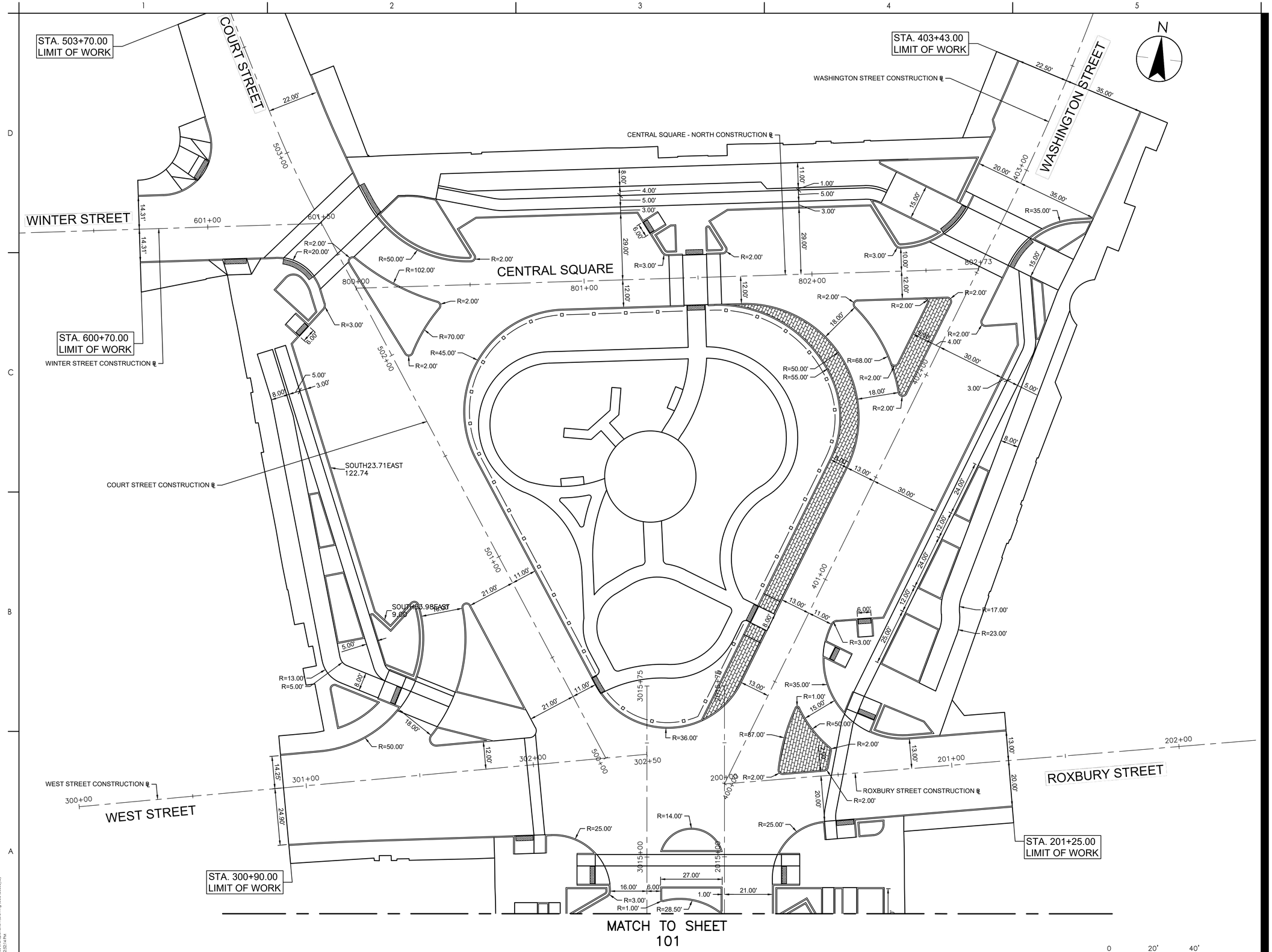

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Title
ROADWAY LAYOUT PLAN
(SHEET 04 OF 06)

Project No.	Scale
179450806	1"=20'

Revision	Sheet	Drawing No.
0	102 of 232	LAY-04

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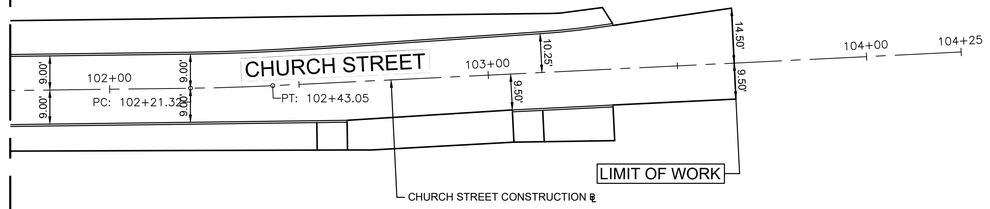
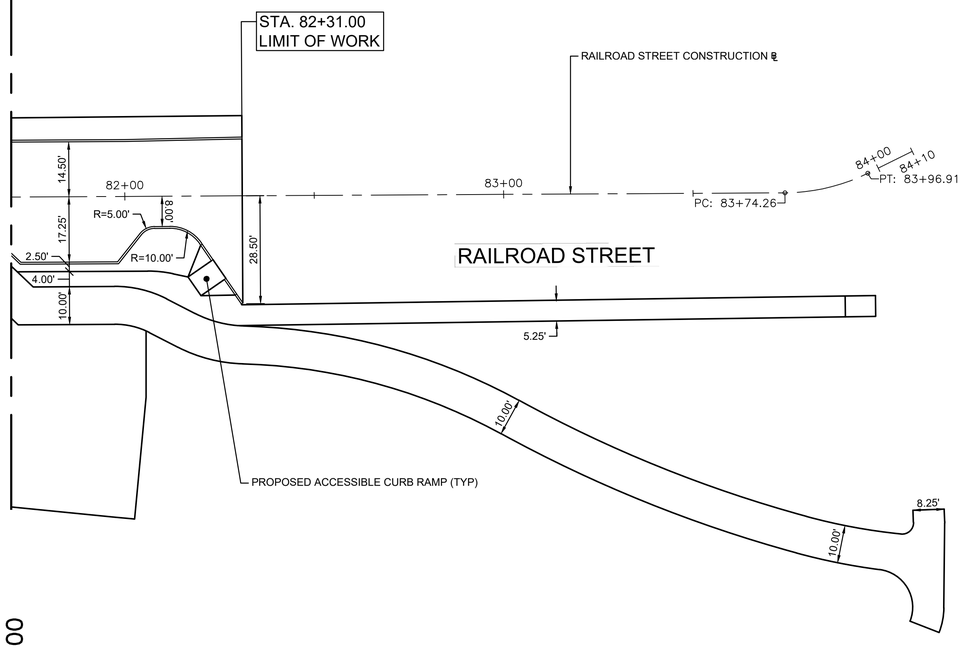


MATCH TO SHEET 101



MATCH TO SHEET 100

0 20' 40'

N

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Title
ROADWAY LAYOUT PLAN
(SHEET 05 OF 06)

Project No.	Scale
179450806	1"=20'

Revision	Sheet	Drawing No.
0	103 of 232	LAY-05

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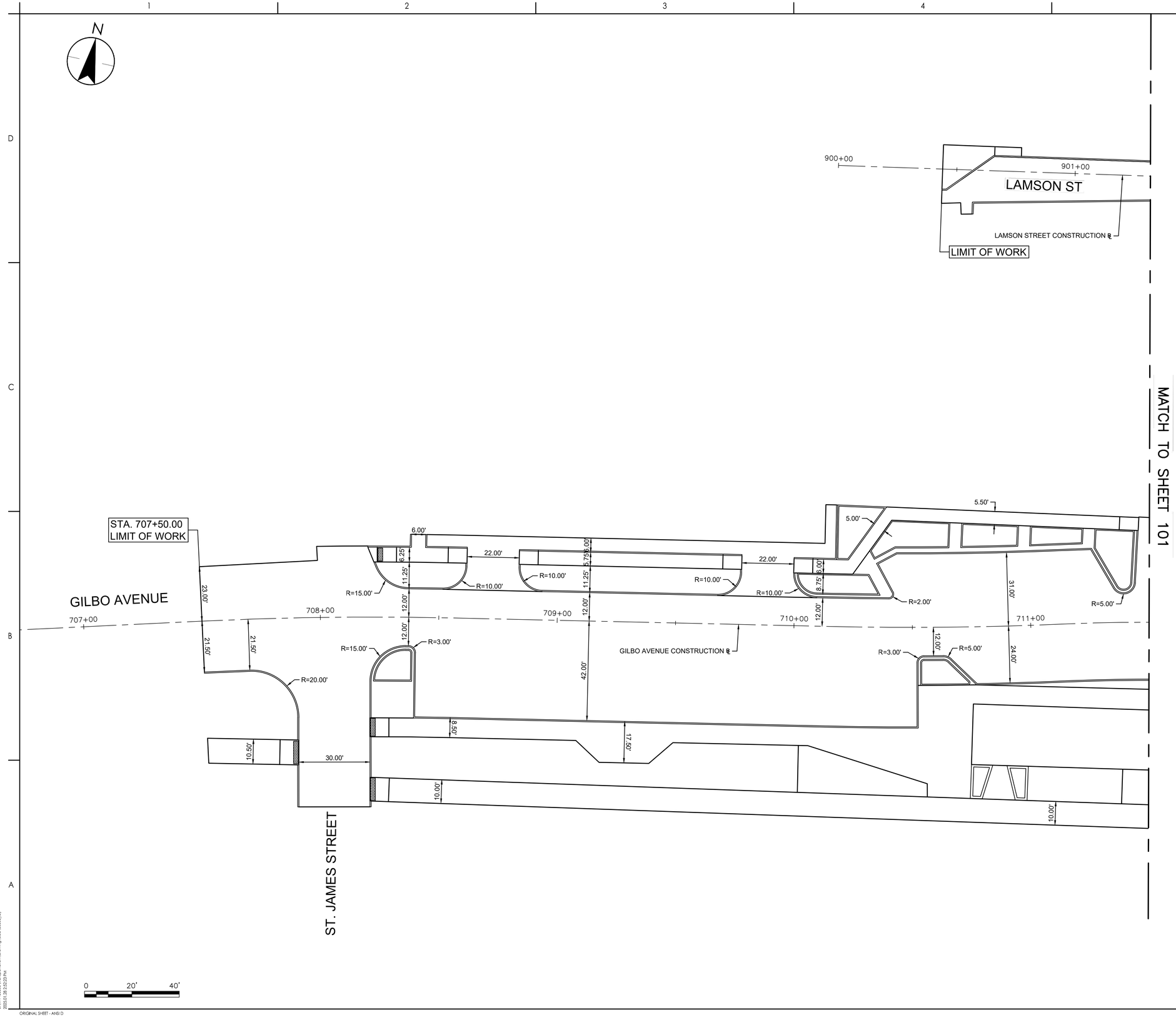

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KEENE, NEW HAMPSHIRE

Title
ROADWAY LAYOUT PLAN
(SHEET 06 OF 06)

Project No.	Scale
179450806	1"=20'

Revision	Sheet	Drawing No.
0	104 of 232	LAY-06

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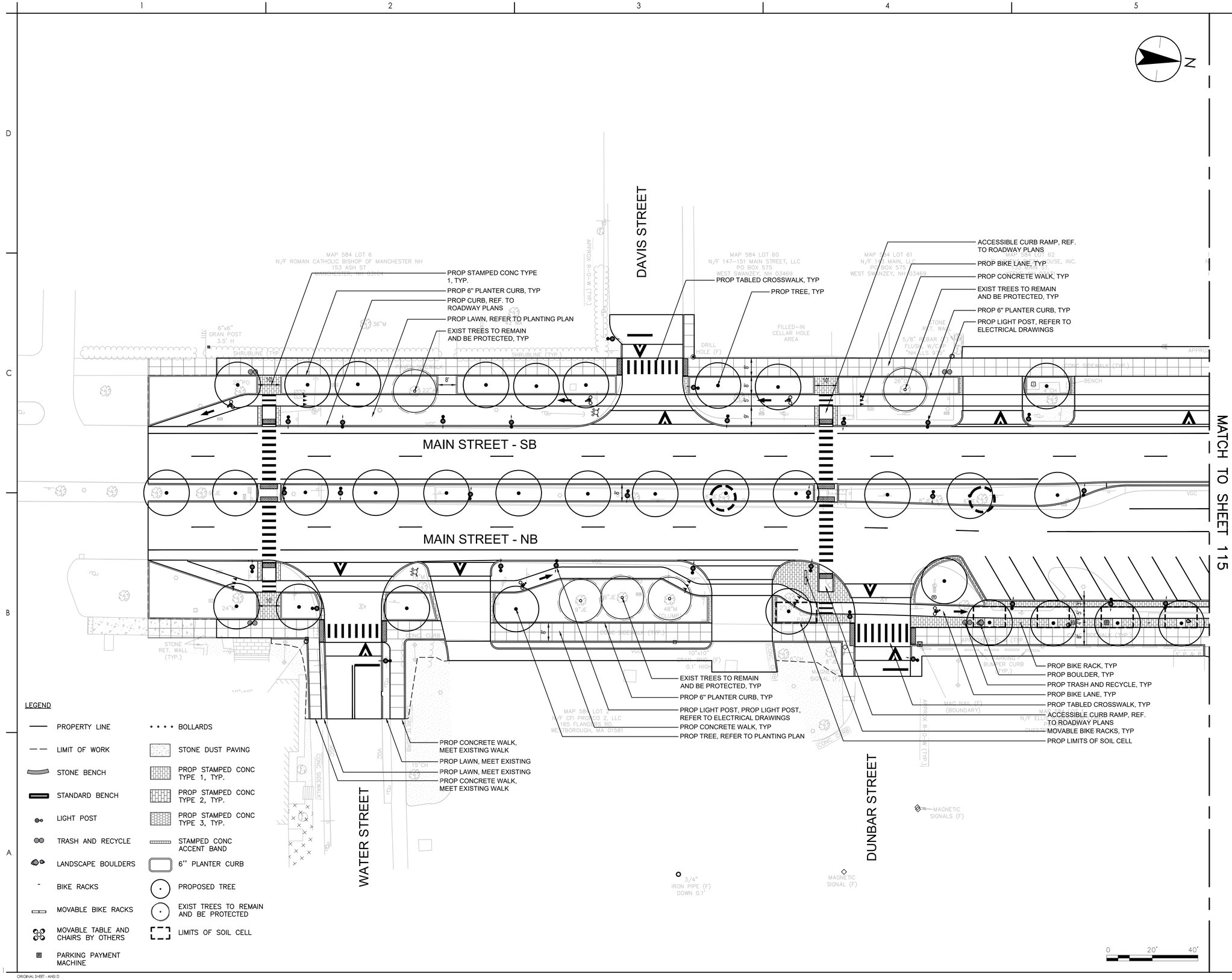

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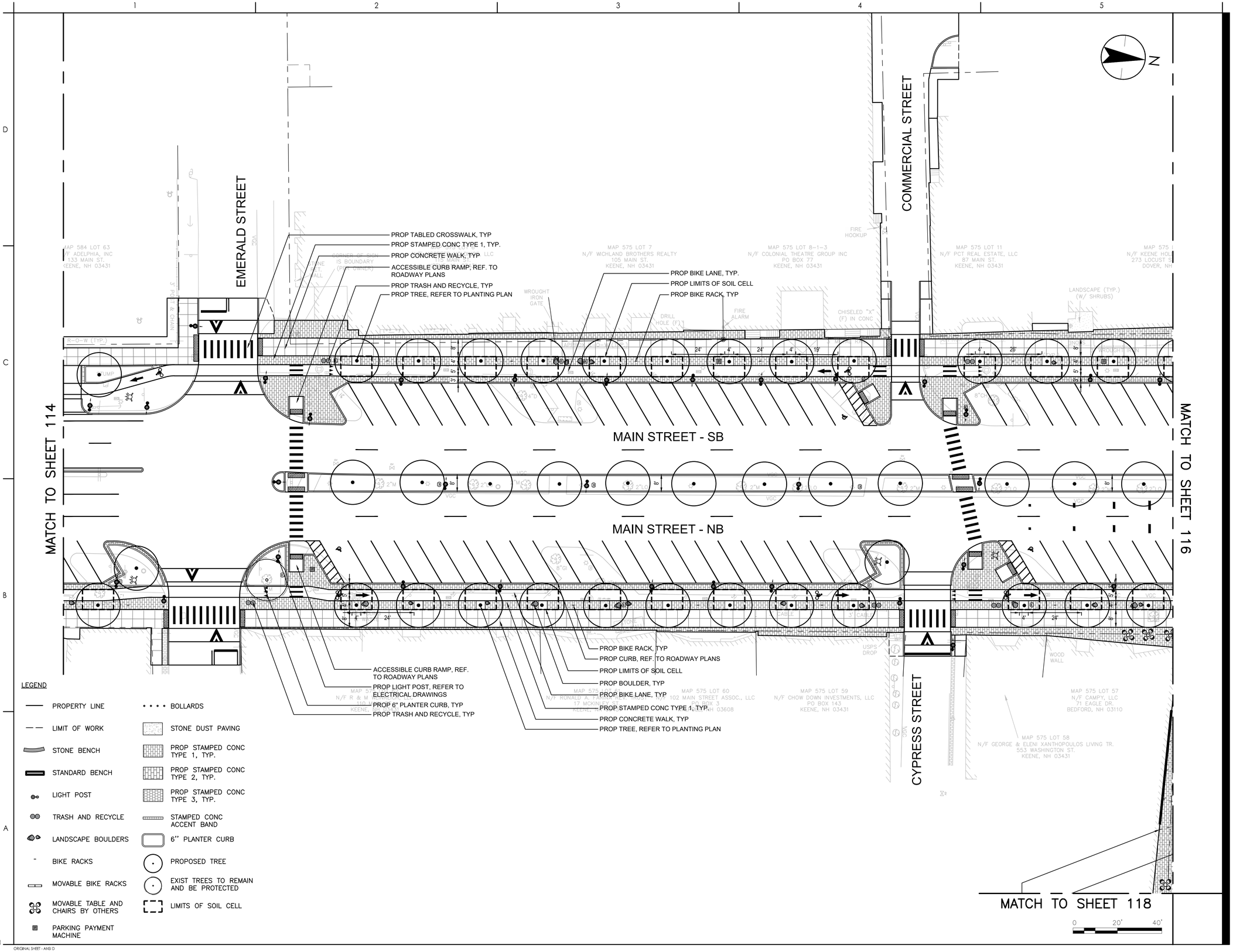
Title
LANDSCAPE LAYOUT & MATERIAL PLAN
SHEET 01 OF 06

Project No.	Scale
179450806	1"=20'

Revision	Sheet	Drawing No.
0	114 of 232	LND-01



LEGEND

- PROPERTY LINE
- LIMIT OF WORK
- STONE BENCH
- STANDARD BENCH
- LIGHT POST
- TRASH AND RECYCLE
- LANDSCAPE BOULDERS
- BIKE RACKS
- MOVABLE BIKE RACKS
- MOVABLE TABLE AND CHAIRS BY OTHERS
- PARKING PAYMENT MACHINE
- BOLLARDS
- STONE DUST PAVING
- PROP STAMPED CONC TYPE 1, TYP.
- PROP STAMPED CONC TYPE 2, TYP.
- PROP STAMPED CONC TYPE 3, TYP.
- STAMPED CONC ACCENT BAND
- 6" PLANTER CURB
- PROPOSED TREE
- EXIST TREES TO REMAIN AND BE PROTECTED
- LIMITS OF SOIL CELL

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Title
LANDSCAPE LAYOUT & MATERIAL PLAN
SHEET 02 OF 06

Project No.	Scale
179450806	1"=20'
Revision: 0	Sheet: 115 of 232
Drawing No.	LND-02

MATCH TO SHEET 119

GILBO AVENUE

LAMSON ST

MAIN STREET - SB

MAIN STREET - NB

MATCH TO SHEET 115

MATCH TO SHEET 117

MATCH TO SHEET 118

CHURCH STREET

PROP LIMITS OF SOIL CELL
PROP TRASH AND RECYCLE, TYP
PROP STAMPED CONC TYPE 1, TYP
ACCESSIBLE CURB RAMP, REF. TO ROADWAY PLANS
PROP TREE, REFER TO PLANTING PLAN
EXIST TREES TO REMAIN AND BE PROTECTED, TYP
PROP BIKE RACK, TYP
PROP STAMPED CONC TYPE 3, TYP
RELOCATE EXIST CLOCK TOWER
PROP CONCRETE WALK, TYP
PROP BIKE LANE, TYP
EXIST TREES TO REMAIN AND BE PROTECTED, TYP
PROP TABLED CROSSWALK, TYP
RELOCATE EXIST FLAG
PROP BOLLARDS, TYP
PROP 6" PLANTER CURB, TYP
PROP CONCRETE WALK, TYP
PROP STAMPED CONC TYPE 1, TYP
PROP BIKE LANE, TYP
PROP STAMPED CONC TYPE 3, TYP
PROP TREE, REFER TO PLANTING PLAN
PROP BOULDER, TYP
PROP LIMITS OF SOIL CELL
PROP 6" PLANTER CURB, TYP
PROP FURNISHING BY OTHERS
EXIST TREES TO REMAIN AND BE PROTECTED, TYP
PROP CONCRETE WALK, TYP
PROP TABLED CROSSWALK, TYP
ACCESSIBLE CURB RAMP, REF. TO ROADWAY PLANS

LEGEND

- PROPERTY LINE
- LIMIT OF WORK
- STONE BENCH
- STANDARD BENCH
- LIGHT POST
- TRASH AND RECYCLE
- LANDSCAPE BOULDERS
- BIKE RACKS
- MOVABLE BIKE RACKS
- MOVABLE TABLE AND CHAIRS BY OTHERS
- PARKING PAYMENT MACHINE
- BOLLARDS
- STONE DUST PAVING
- PROP STAMPED CONC TYPE 1, TYP.
- PROP STAMPED CONC TYPE 2, TYP.
- PROP STAMPED CONC TYPE 3, TYP.
- STAMPED CONC ACCENT BAND
- 6'' PLANTER CURB
- PROPOSED TREE
- EXIST TREES TO REMAIN AND BE PROTECTED
- LIMITS OF SOIL CELL

0 20' 40'

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KEENE, NEW HAMPSHIRE

Title
LANDSCAPE LAYOUT & MATERIAL PLAN
SHEET 03 OF 06

Project No.	Scale
179450806	1"=20'
Revision: 0	Sheet: 116 of 232
	Drawing No.: **LND-03**

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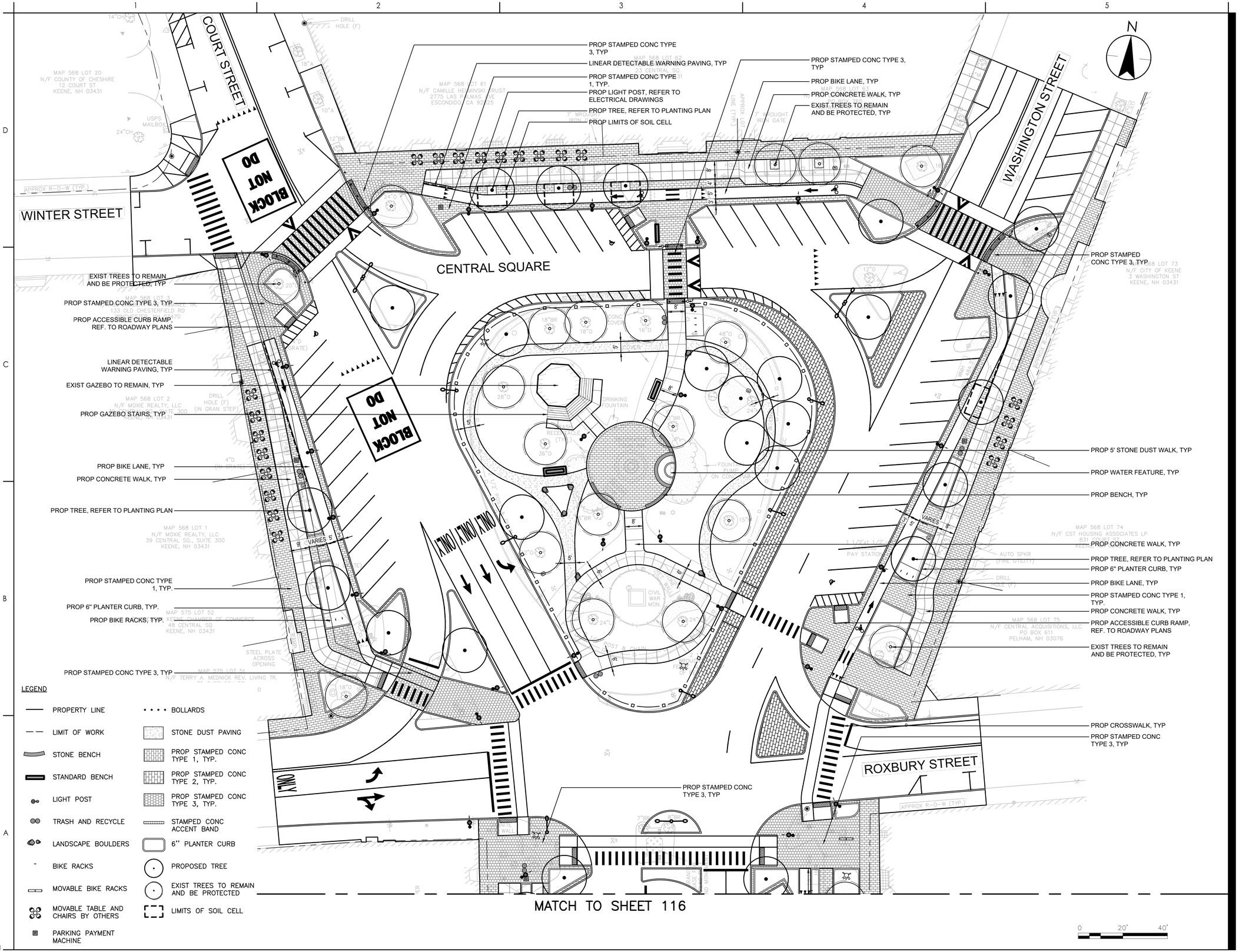

LEGEND

PROPERTY LINE	BOLLARDS
LIMIT OF WORK	STONE DUST PAVING
STONE BENCH	PROP STAMPED CONC TYPE 1, TYP.
STANDARD BENCH	PROP STAMPED CONC TYPE 2, TYP.
LIGHT POST	PROP STAMPED CONC TYPE 3, TYP.
TRASH AND RECYCLE	STAMPED CONC ACCENT BAND
LANDSCAPE BOULDERS	6" PLANTER CURB
BIKE RACKS	PROPOSED TREE
MOVABLE BIKE RACKS	EXIST TREES TO REMAIN AND BE PROTECTED
MOVABLE TABLE AND CHAIRS BY OTHERS	LIMITS OF SOIL CELL
PARKING PAYMENT MACHINE	

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Revision	By	Appd	YYYY-MM-DD
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File Name: 50806_LA LAYOUT MATERIALS	XXX Dwn.	TJG Dsgn.	DEM Chkd.

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KEENE, NEW HAMPSHIRE

Title
LANDSCAPE LAYOUT & MATERIAL PLAN
SHEET 04 OF 06

Project No.	Scale
179450806	1"=20'

Revision	Sheet	Drawing No.
0	117 of 232	LND-04

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LEGEND

- PROPERTY LINE
- LIMIT OF WORK
- STONE BENCH
- STANDARD BENCH
- LIGHT POST
- TRASH AND RECYCLE
- LANDSCAPE BOULDERS
- BIKE RACKS
- MOVABLE BIKE RACKS
- MOVABLE TABLE AND CHAIRS BY OTHERS
- PARKING PAYMENT MACHINE
- BOLLARDS
- STONE DUST PAVING
- PROP STAMPED CONC TYPE 1, TYP.
- PROP STAMPED CONC TYPE 2, TYP.
- PROP STAMPED CONC TYPE 3, TYP.
- STAMPED CONC ACCENT BAND
- 6" PLANTER CURB
- PROPOSED TREE
- EXIST TREES TO REMAIN AND BE PROTECTED
- LIMITS OF SOIL CELL

MATCH TO SHEET 116

MATCH TO SHEET 115

CHURCH STREET

RAILROAD STREET

PROP GATEWAY ARCH, TYP
PROP STAMPED CONC TYPE 1, TYP.
PROP PLANTER BENCH, TYP
HISTORIC RAILROAD PAVING, TYP
PROP SHADE STRUCTURE, BID ALTERNATE
PROP STAMPED CONCRETE, TYP 2
PROP RAIN GARDEN
PROP CONCRETE SHARED USE PATH, TYP
EXIST TREES TO REMAIN AND BE PROTECTED, TYP
PROP BOULDERS, TYP
PROP TRASH AND RECYCLE, TYP
PROP BIKE RACKS, TYP
PROP FURNISHING BY OTHERS
EXIST TREES TO REMAIN AND BE PROTECTED, TYP
PROP STAMPED CONC TYPE 1, TYP.
PROP CATENARY LIGHTS
EXIST TREES TO REMAIN AND BE PROTECTED, TYP

MAP 574 LOT 55
N/F TRIDEE ASSOCIATES INC.
PO BOX 485
ALSTEAD, NH 03602

MAP 574 LOT 9-1-15
N/F DAVID A. BARRETT
189 CENTRE ST.
SULLIVAN, NH 03445

MAP 575 LOT 56-1-2
N/F MONADNOCK COMMUNITY SERVICE CENTER INC
64 MAIN ST. 2ND FLOOR
KEENE, NH 03431

MAP 575 LOT 57
N/F CAMPY, LLC
71 EAGLE DR.
BEDFORD, NH 03310

MAP 575 LOT 58
N/F GEORGE & ELENI XANTHOPOULOS LIVING TR.
505 WASHINGTON ST.
KEENE, NH 03431

0 20' 40'

N

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Title
LANDSCAPE LAYOUT & MATERIAL PLAN
SHEET 05 OF 06

Project No.	Scale
179450806	1"=20'

Revision	Sheet	Drawing No.
0	118 of 232	LND-05

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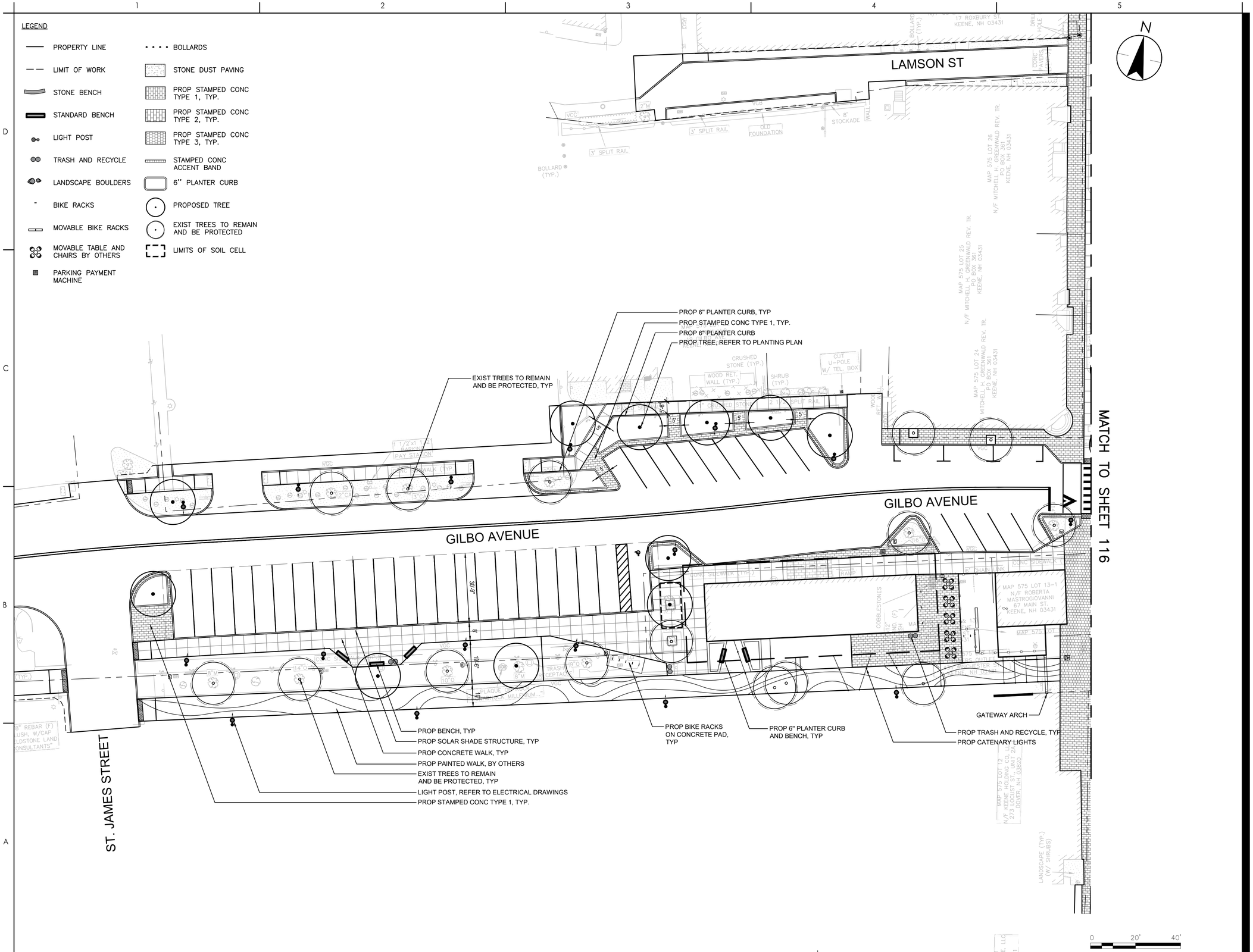

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SHEET 06 OF 06

Project No.	Scale
179450806	1"=20'

Revision	Sheet	Drawing No.
0	119 of 232	LND-06

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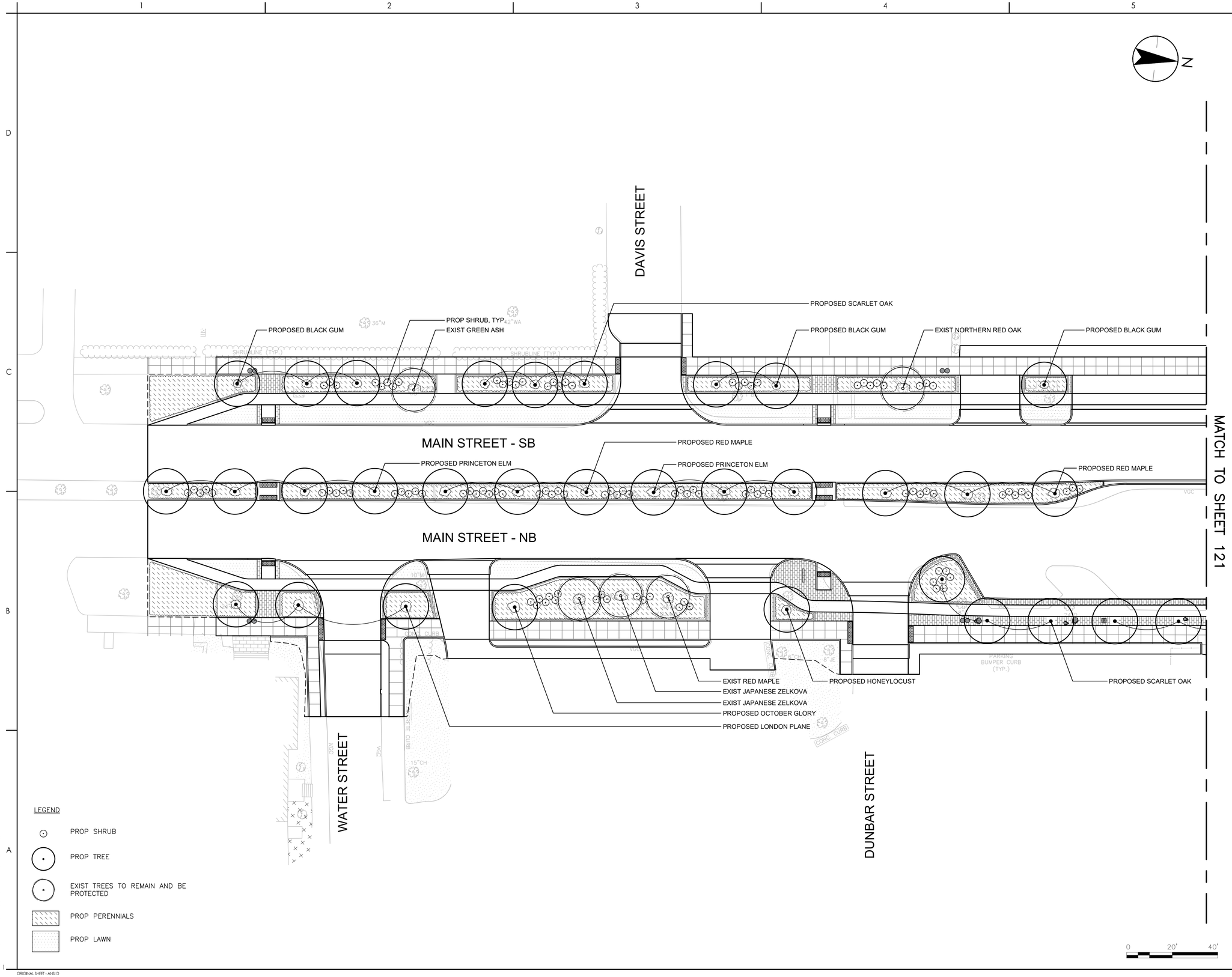

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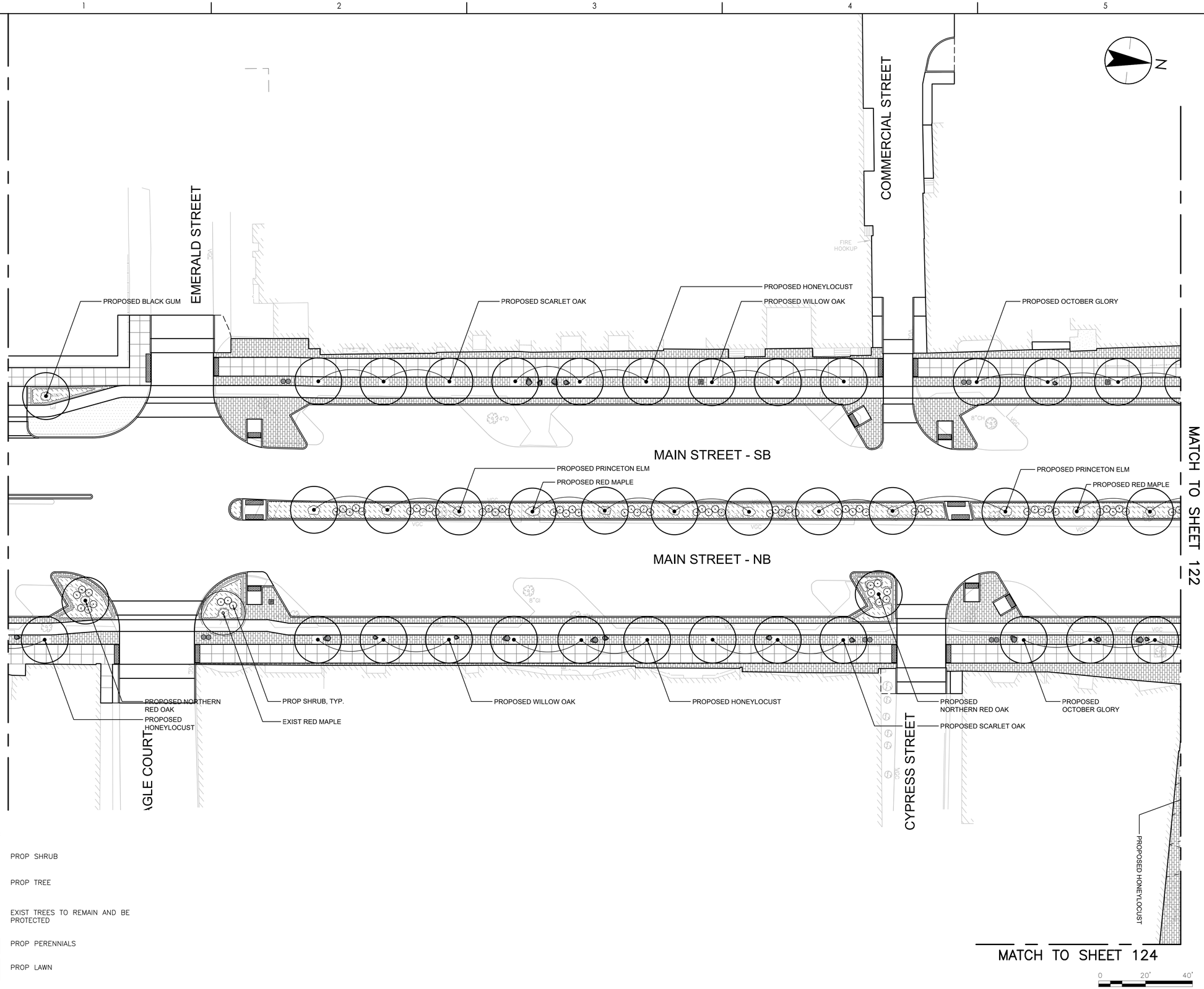
Title
PLANTING PLAN
SHEET 01 OF 06

Project No.	Scale
179450806	1"=20'

Revision	Sheet	Drawing No.
0	120 of 232	LND-07



LEGEND

- PROP SHRUB
- PROP TREE
- EXIST TREES TO REMAIN AND BE PROTECTED
- PROP PERENNIALS
- PROP LAWN

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Title
PLANTING PLAN
SHEET 02 OF 06

Project No.	Scale
179450806	1"=20'

Revision	Sheet	Drawing No.
0	121 of 232	LND-08

ORIGINAL SHEET - ANSI D

MATCH TO SHEET 125

GILBO AVENUE

LAMSON ST

EXIST CALLERY PEAR
EXIST PIN OAK
PROPOSED PRINCETON ELM

PROPOSED OCTOBER GLORY
PROPOSED BLACK GUM
EXIST CALLERY PEAR

PROPOSED BLACK GUM
EXIST CALLERY PEAR
PROPOSED HONEYLOCUST

MAIN STREET - SB

PROPOSED RED MAPLE
PROPOSED PRINCETON ELM
PROPOSED RED MAPLE
PROPOSED PRINCETON ELM

MAIN STREET - NB

MATCH TO SHEET 121

MATCH TO SHEET 123

EXIST CALLERY PEAR
PROPOSED PRINCETON ELM
EXIST PIN OAK

PROP SHRUB, TYP.
PROPOSED BLACK GUM
EXIST HAWTHORNE

EXIST PIN OAK
EXIST PIN OAK

PROPOSED HONEYLOCUST
PROPOSED OCTOBER GLORY
PROPOSED PRINCETON ELM

RAILROAD STREET

CHURCH STREET

PROPOSED CO

MATCH TO SHEET 124

LEGEND

- PROP SHRUB
- PROP TREE
- EXIST TREES TO REMAIN AND BE PROTECTED
- PROP PERENNIALS
- PROP LAWN

0 20' 40'

N

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Title
PLANTING PLAN
SHEET 03 OF 06

Project No.
179450806

Scale
1"=20'

Revision
0

Sheet
122 of 232

Drawing No.
LND-09

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COURT STREET

WINTER STREET

WASHINGTON STREET

CENTRAL SQUARE

ROXBURY STREET

EXIST PIN OAK

PROPOSED PRINCETON ELM

EXIST PIN OAK

PROPOSED TULIPTREE

EXIST JAPANESE ZELKOVA

EXIST JAPANESE ZELKOVA

EXIST NORTHERN RED OAK

EXIST NORTHERN RED OAK

EXIST CALLERY PEAR

EXIST PIN OAK

PROPOSED TULIPTREE

PROPOSED LONDON PLANE

EXIST RED OAK

EXIST CALLERY PEAR

EXIST RED OAK

PROPOSED WILLOW OAK

EXIST CALLERY PEAR

EXIST PIN OAK

PROPOSED LONDON PLANE

EXIST HONEY LOCUST

PROPOSED TULIP TREE

EXIST PIN OAK

PROPOSED OCTOBER GLORY

EXIST RED OAK

PROPOSED DAWN REDWOOD

PROPOSED WILLOW OAK

PROP LAWN, TYP.

PROP SHRUB, TYP.

EXIST RED MAPLE

EXIST HONEY LOCUST
WILLOW OAK

EXIST PIN OAK

LEGEND

- PROP SHRUB
- PROP TREE
- EXIST TREES TO REMAIN AND BE PROTECTED
- PROP PERENNIALS
- PROP LAWN

MATCH TO SHEET 122

0 20' 40'

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Title
PLANTING PLAN
SHEET 04 OF 06

Project No. 179450806

Scale 1"=20'

Revision 0

Sheet 123 of 232

Drawing No. **LND-10**

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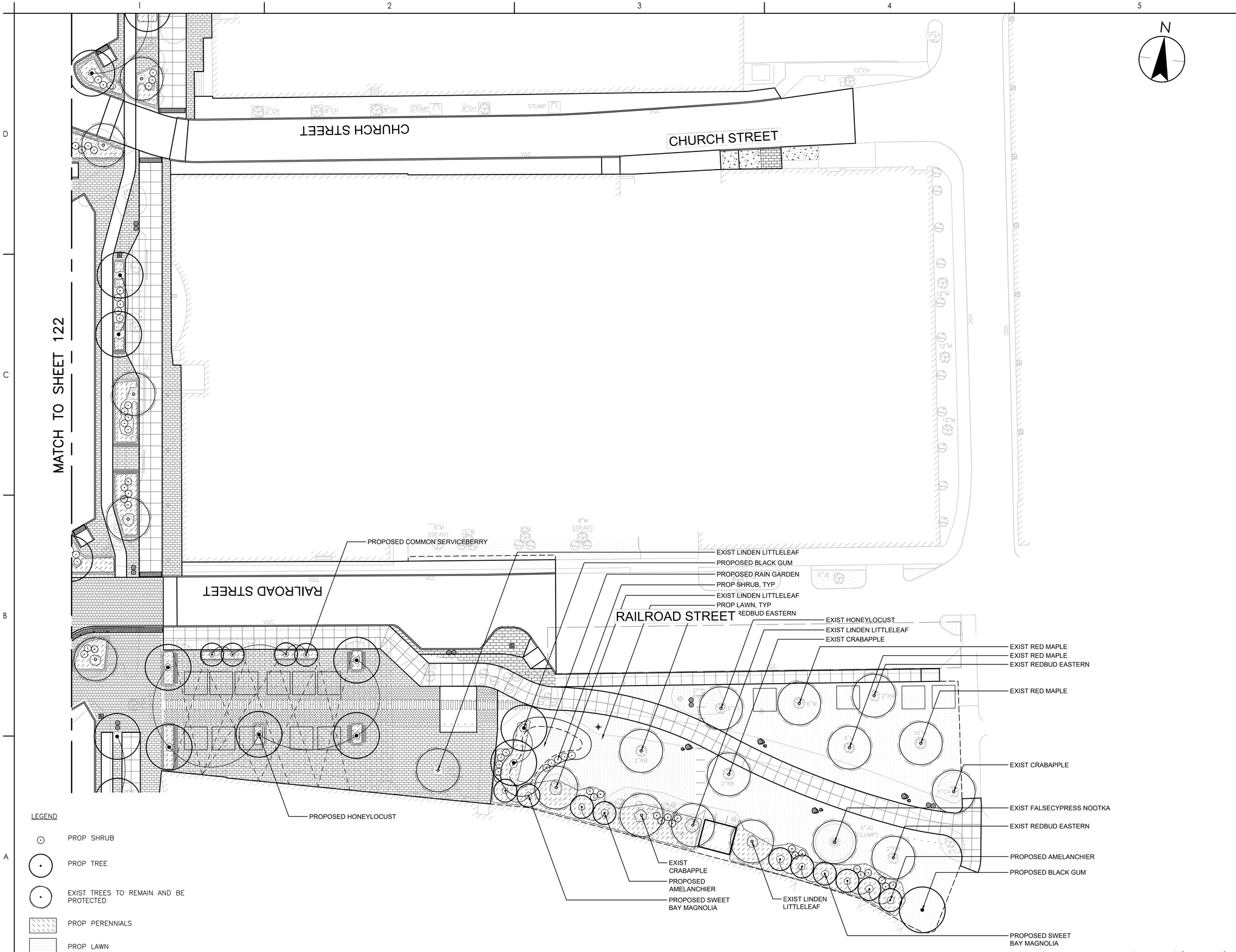

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KEENE, NEW HAMPSHIRE

Title
PLANTING PLAN
SHEET 05 OF 06

Project No.	Scale
179450806	1"=20'

Revision	Sheet	Drawing No.
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MASTER PLANT SCHEDULE

PROPOSED TREE

BOTANICAL NAME	COMMON NAME	SIZE	COMMENTS
Quercus phellos	WILLOW PAK	3"-3.5" CALIPER	
Gleditsia triacanthos f. intermis	HONEYLOCUST	3"-3.5" CALIPER	
Acer rubrum	RED MAPLE	3"-3.5" CALIPER	
Nyssa sylvatica	BLACK GUM	3"-3.5" CALIPER	
Ginko biloba	GINKO	3"-3.5" CALIPER	
Quercus coccinea	SCARLET OAK	3"-3.5" CALIPER	
Metasequoia glyptostrobodies	DAWN REDWOOD	3"-3.5" CALIPER	
Liriodendron tulipifera	TULIPTREE	3"-3.5" CALIPER	
Cornus florida	DOGWOOD	3"-3.5" CALIPER	
Quercus rubra	NORTHERN RED OAK	3"-3.5" CALIPER	
Quercus alba	WHITE OAK	3"-3.5" CALIPER	
Zelkova	ZELKOVA	3"-3.5" CALIPER	
Ulmus americana "princeton"	PRINCETON ELM	3"-3.5" CALIPER	
Gymnocladus dioicus	KENTUCKY COFFEE TREE	3"-3.5" CALIPER	
Magnolia virginiana	SWEETBAY MAGNOLIA	3"-3.5" CALIPER	MULTISTEM
Betula	BIRCH CLUSTER	3"-3.5" CALIPER	MULTISTEM
Carpinus caroliniana	AMERICAN HORNBEAM	3"-3.5" CALIPER	
Cladrastis kentukea	YELLOWWOOD	3"-3.5" CALIPER	
Platanus x acerifolia	LONDON PLANE	3"-3.5" CALIPER	
Tilia cordata	LINDEN	3"-3.5" CALIPER	
Ulmus parvifolia	CHINESE ELM	3"-3.5" CALIPER	
Amelanchier canadensis	SERVICEBERRY	3"-3.5" CALIPER	

TOTAL QTY. 161

PROPOSED SHRUB

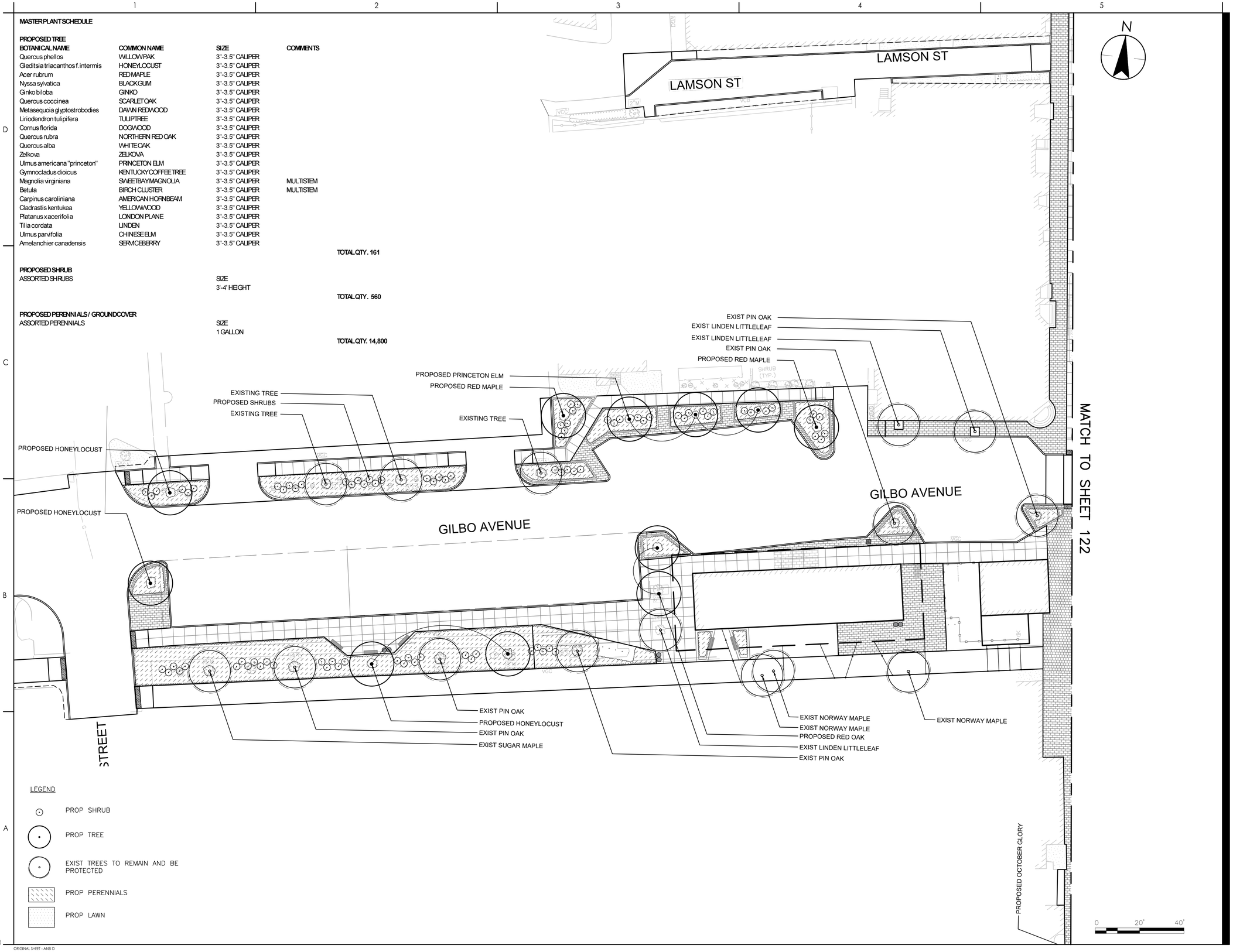
ASSORTED SHRUBS	SIZE
	3'-4' HEIGHT

TOTAL QTY. 560

PROPOSED PERENNIALS / GROUNDCOVER

ASSORTED PERENNIALS	SIZE
	1 GALLON

TOTAL QTY. 14,800



LEGEND

- PROP SHRUB
- PROP TREE
- EXIST TREES TO REMAIN AND BE PROTECTED
- PROP PERENNIALS
- PROP LAWN

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Title
PLANTING PLAN
SHEET 06 OF 06

Project No.	Scale
179450806	1"=20'
Revision: 0	Sheet: 125 of 232
	Drawing No. LND-12

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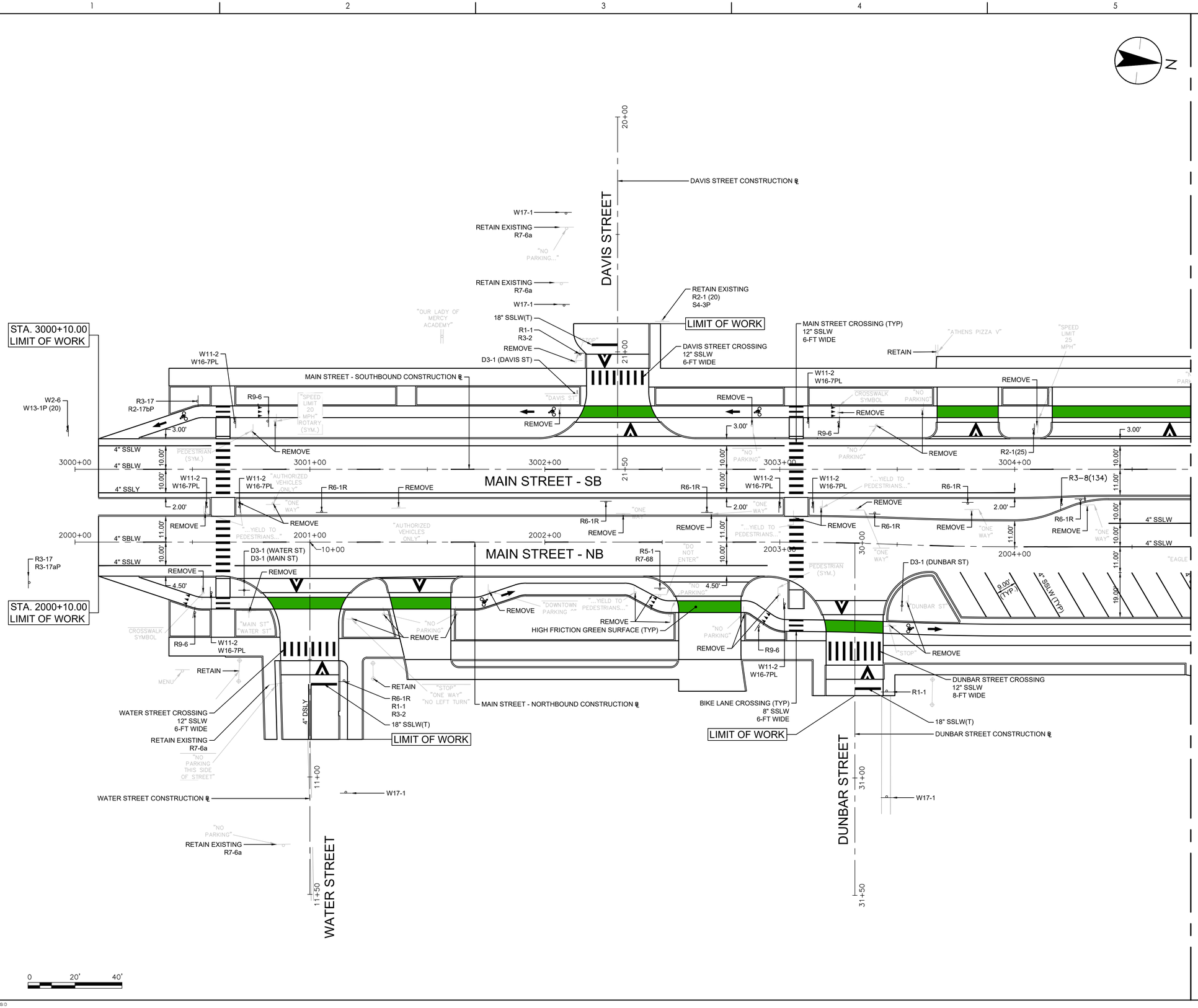

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KEENE, NEW HAMPSHIRE

Title
PAVEMENT MARKING PLAN
(SHEET 01 OF 06)

Project No.	Scale
179450806	1"=20'

Revision	Sheet	Drawing No.
0	128 of 232	**PVM-01**

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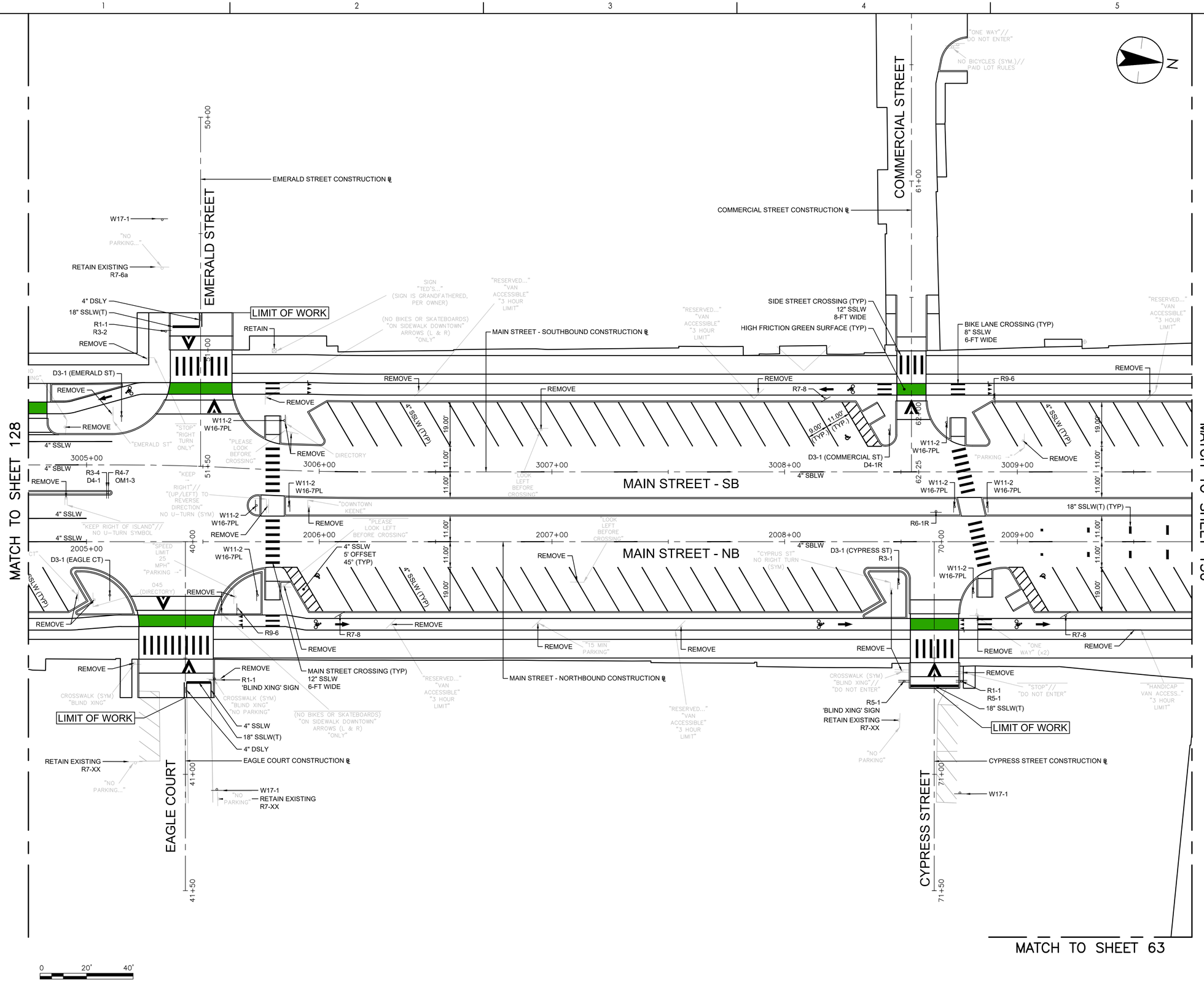

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Title
PAVEMENT MARKING PLAN
(SHEET 02 OF 06)

Project No.	Scale
179450806	1"=20'
Revision: 0	Sheet: 129 of 232
Drawing No.	**PVM-02**

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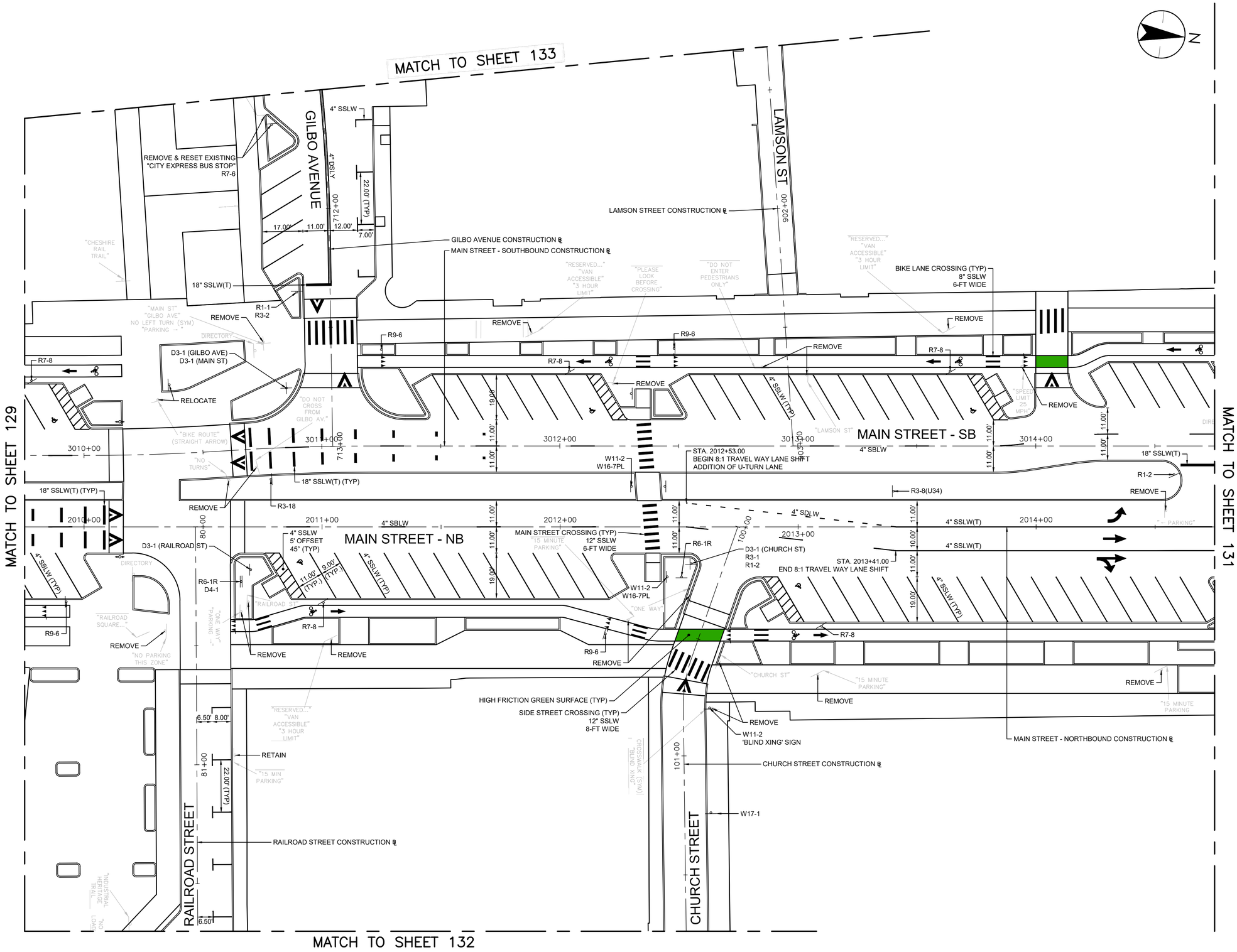

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Revision	By	Appd	YYYY-MM-DD

Issued	By	Appd	YYYY-MM-DD
File Name: 50806_PMRK	XXX	TJG	DEM	2025-01-28
	Dwn.	Dsgn.	Chkd.	YYYY-MM-DD

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CITY OF KEENE

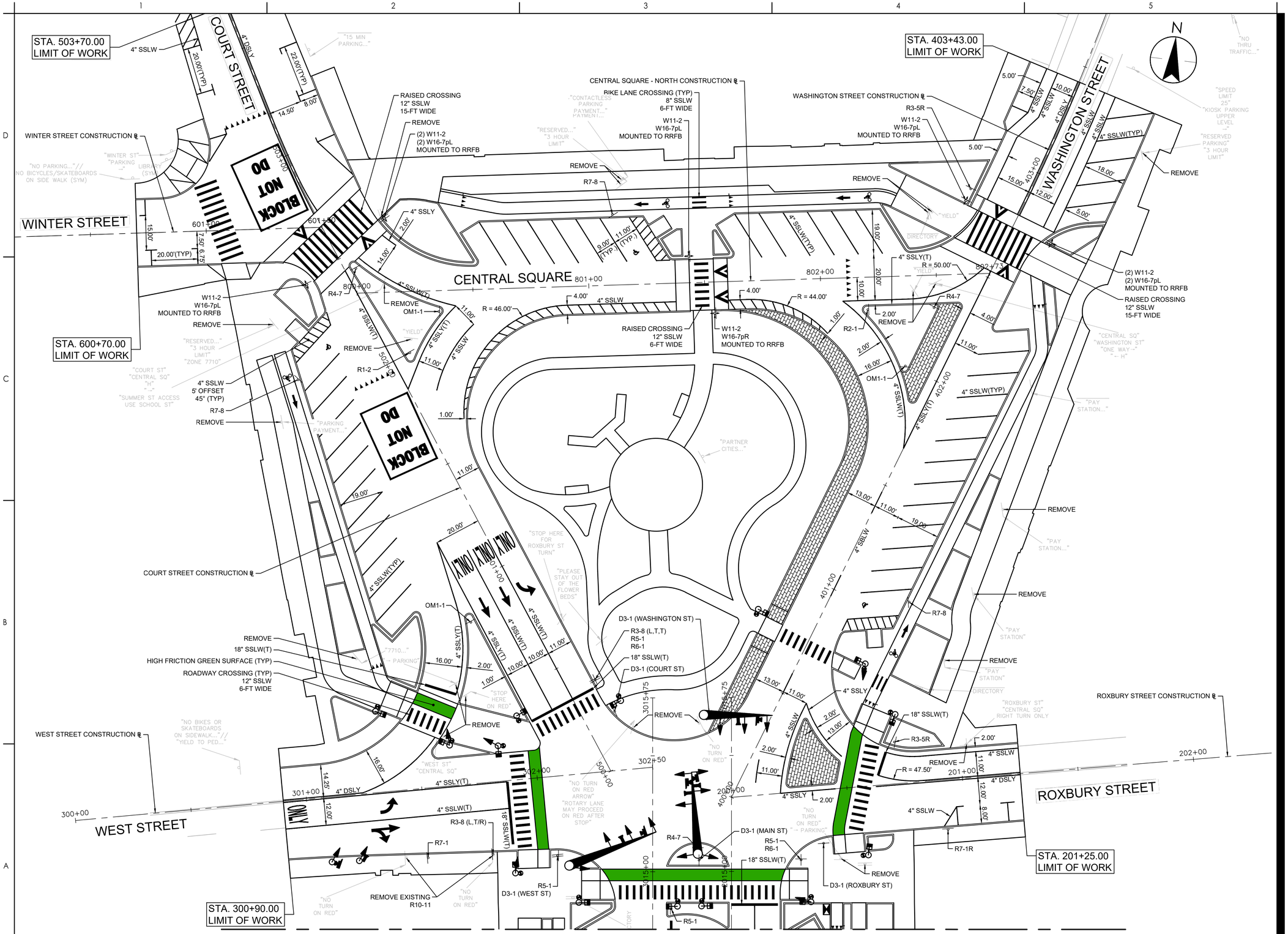
KEENE DOWNTOWN IMPROVEMENTS

KEENE, NEW HAMPSHIRE

Title
PAVEMENT MARKING PLAN
(SHEET 03 OF 06)

Project No.	Scale
179450806	1"=20'

Revision	Sheet	Drawing No.
0	130 of 232	PVM-03



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KEENE, NEW HAMPSHIRE

Title
PAVEMENT MARKING PLAN
(SHEET 04 OF 06)

Project No.	Scale
179450806	1"=20'

Revision	Sheet	Drawing No.
0	131 of 232	PVM-04

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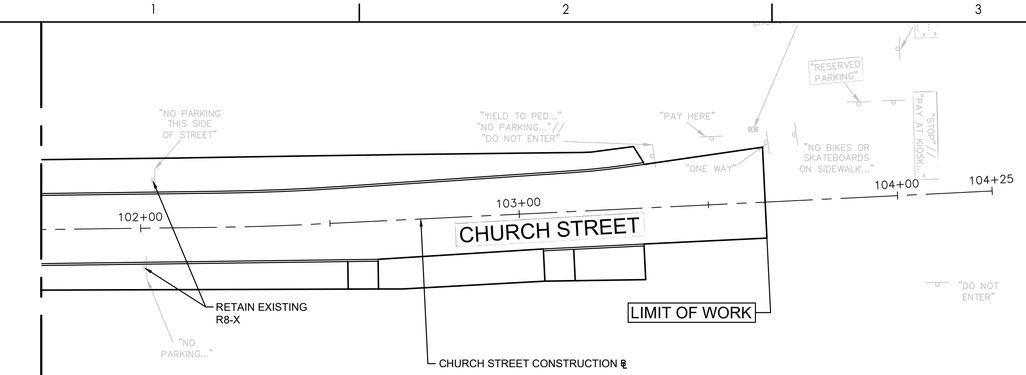
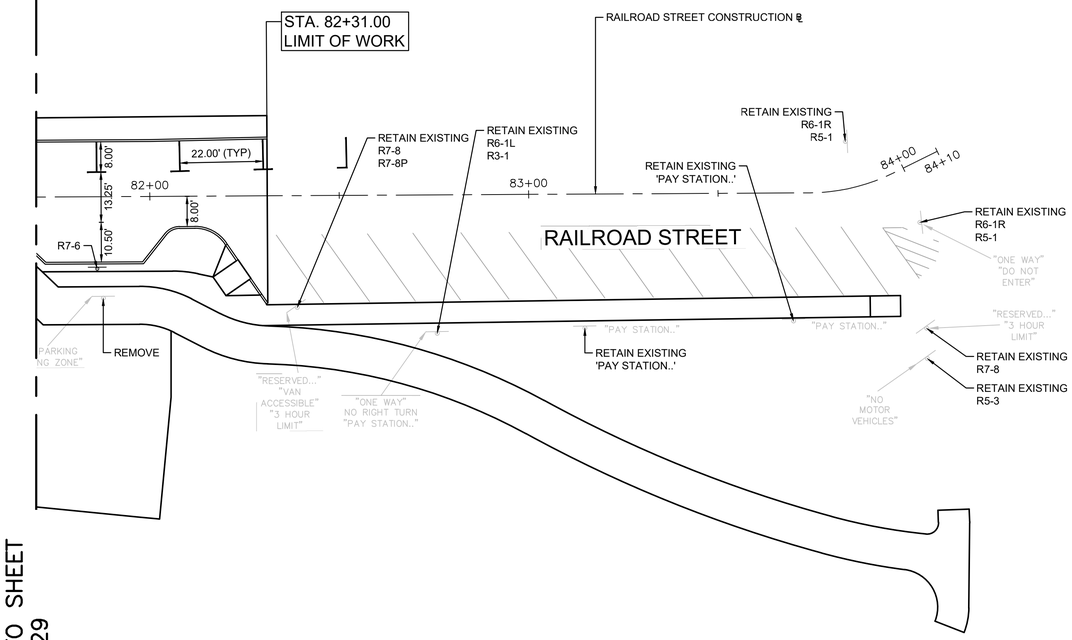
ORIGINAL SHEET - ANSI D



MATCH TO SHEET 130



MATCH TO SHEET 129

0 20' 40'

N

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KEENE, NEW HAMPSHIRE

Title
PAVEMENT MARKING PLAN
(SHEET 05 OF 06)

Project No.	Scale
179450806	1"=20'

Revision	Sheet	Drawing No.
0	132 of 232	PVM-05

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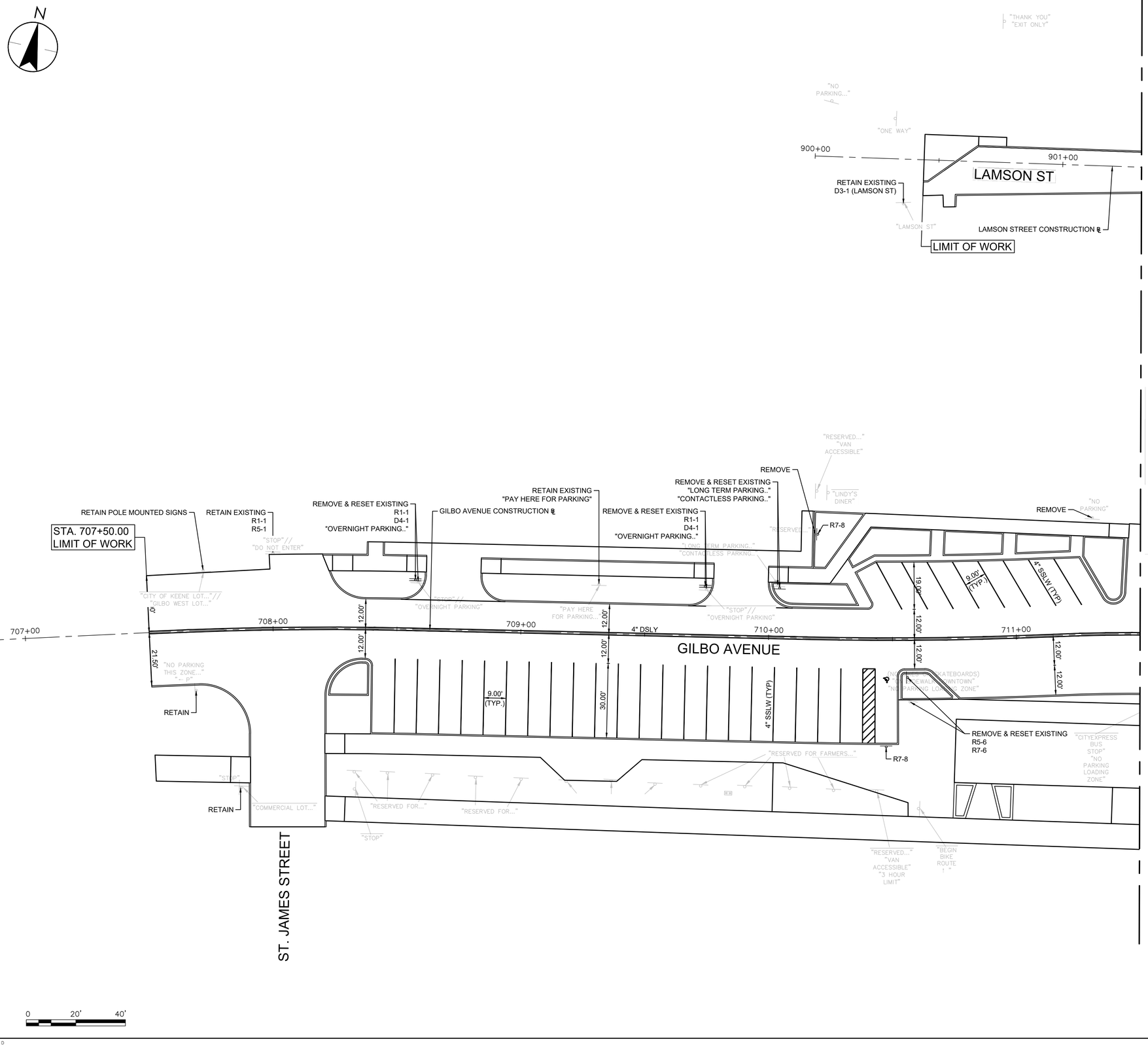

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KEENE, NEW HAMPSHIRE

Title
PAVEMENT MARKING PLAN
(SHEET 06 OF 06)

Project No.	Scale
179450806	1"=20'

Revision	Sheet	Drawing No.
0	133 of 232	PVM-06

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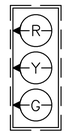
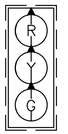
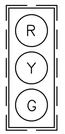
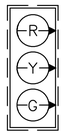
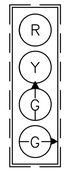
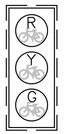
ORIGINAL SHEET - ANSI D

EMERGENCY VEHICLE PRE–EMPTION PHASING AND PRIORITY NOTES:

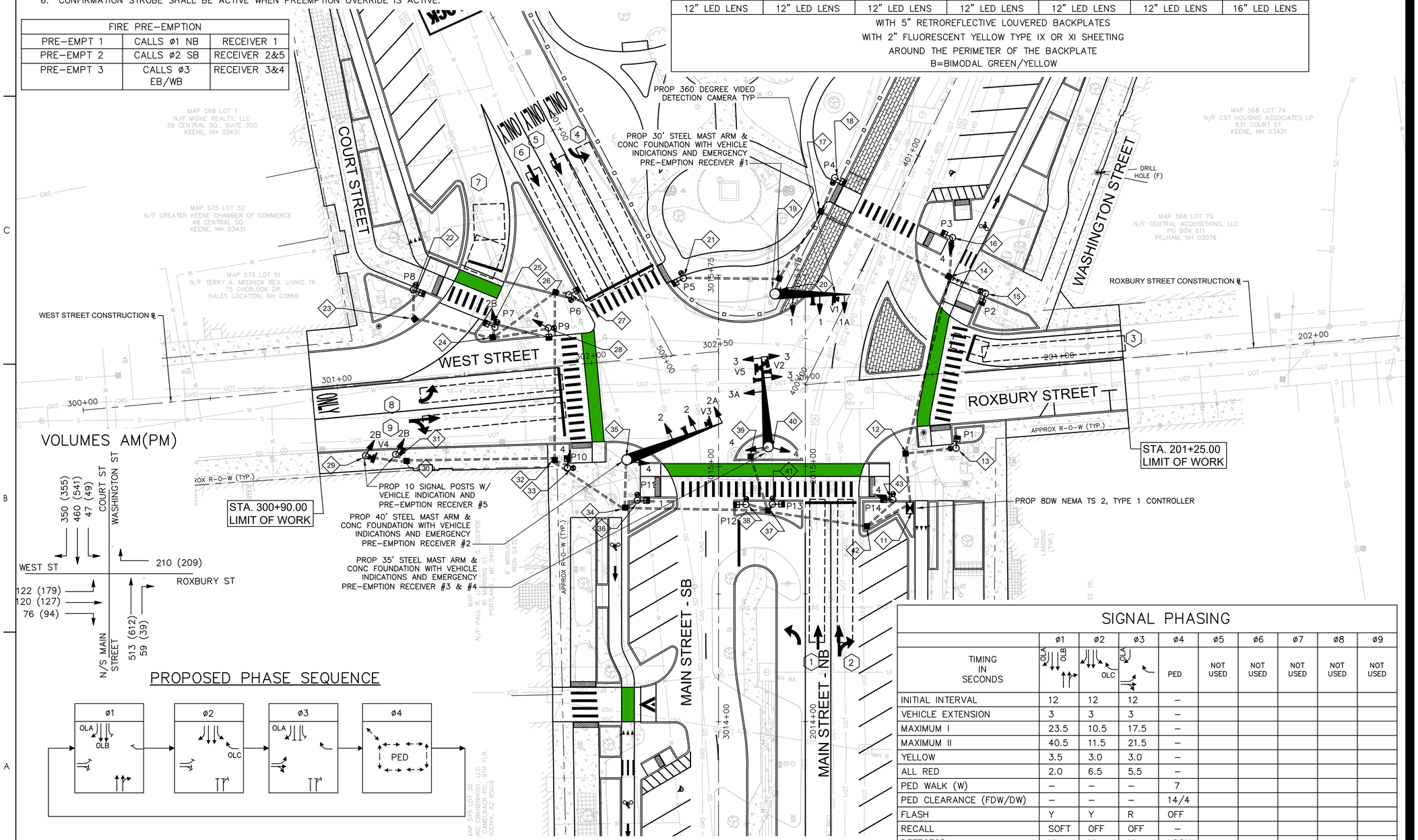
1. LOCATION OF EMERGENCY VEHICLE PRE–EMPTION RECEIVERS ARE TO BE DETERMINED IN THE FIELD BY THE CONTRACTOR, ENGINEER, AND THE TOWN OF HUDSON FIRE DEPARTMENT.
2. PRE–EMPTION SIGNAL SHALL BE SERVED ON A FIRST COME–FIRST SERVE BASIS.
3. MINIMUM GREEN TIME AND NORMAL VEHICLE CLEARANCE TIMES SHALL BE PROVIDED ON PHASES THAT ARE TO BE TERMINATED BY PRE–EMPTION DEMAND.
4. EMERGENCY PRE–EMPTION SHALL OVERRIDE COORDINATION.
5. NO OVERLAPS SHALL OPERATE DURING EMERGENCY PRE–EMPTION CALLS.
6. CONFIRMATION STROBE SHALL BE ACTIVE WHEN PREEMPTION OVERRIDE IS ACTIVE.

FIRE PRE–EMPTION		
PRE–EMPT 1	CALLS ø1 NB	RECEIVER 1
PRE–EMPT 2	CALLS ø2 SB	RECEIVER 2&5
PRE–EMPT 3	CALLS ø3 EB/WB	RECEIVER 3&4

PROPOSED SIGNAL HEAD DATA

2A	1,2	3	2B	1A,3A	4	P#
						
12" LED LENS	12" LED LENS	12" LED LENS	12" LED LENS	12" LED LENS	12" LED LENS	16" LED LENS

WITH 5" RETROREFLECTIVE LOUVERED BACKPLATES
WITH 2" FLUORESCENT YELLOW TYPE IX OR XI SHEETING
AROUND THE PERIMETER OF THE BACKPLATE
B=BIMODAL GREEN/YELLOW



VOLUMES AM(PM)

PROPOSED PHASE SEQUENCE

SIGNAL PHASING

TIMING IN SECONDS	ø1 OLA OLB	ø2 OLC	ø3 OLA	ø4 PED	ø5 NOT USED	ø6 NOT USED	ø7 NOT USED	ø8 NOT USED	ø9 NOT USED
INITIAL INTERVAL	12	12	12	–					
VEHICLE EXTENSION	3	3	3	–					
MAXIMUM I	23.5	10.5	17.5	–					
MAXIMUM II	40.5	11.5	21.5	–					
YELLOW	3.5	3.0	3.0	–					
ALL RED	2.0	6.5	5.5	–					
PED WALK (W)	–	–	–	7					
PED CLEARANCE (FDW/DW)	–	–	–	14/4					
FLASH	Y	Y	R	OFF					
RECALL	SOFT	OFF	OFF	–					
DETECTOR	NL	NL	NL	LOCK					

MAXIMUM I GREEN TIME FOR 6AM – 9AM
MAXIMUM II GREEN TIME FOR ALL OTHER TIME PERIODS

0 20' 40'

NOTES:
1. FOR SIDEWALK CONFIGURATIONS, SEE LAYOUT AND MATERIALS SHEETS 99 TO 104.
2. FOR DRAINAGE AND UTILITY INFORMATION, SEE UTILITY PLANS SHEETS 86 TO 91.
3. FOR PAVEMENT MARKING LAYOUT AND INFORMATION, SEE PAVEMENT MARKING PLAN SHEETS 128 TO 133.

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KEENE DOWNTOWN IMPROVEMENTS

KEENE, NEW HAMPSHIRE

Title
TRAFFIC SIGNAL PLAN

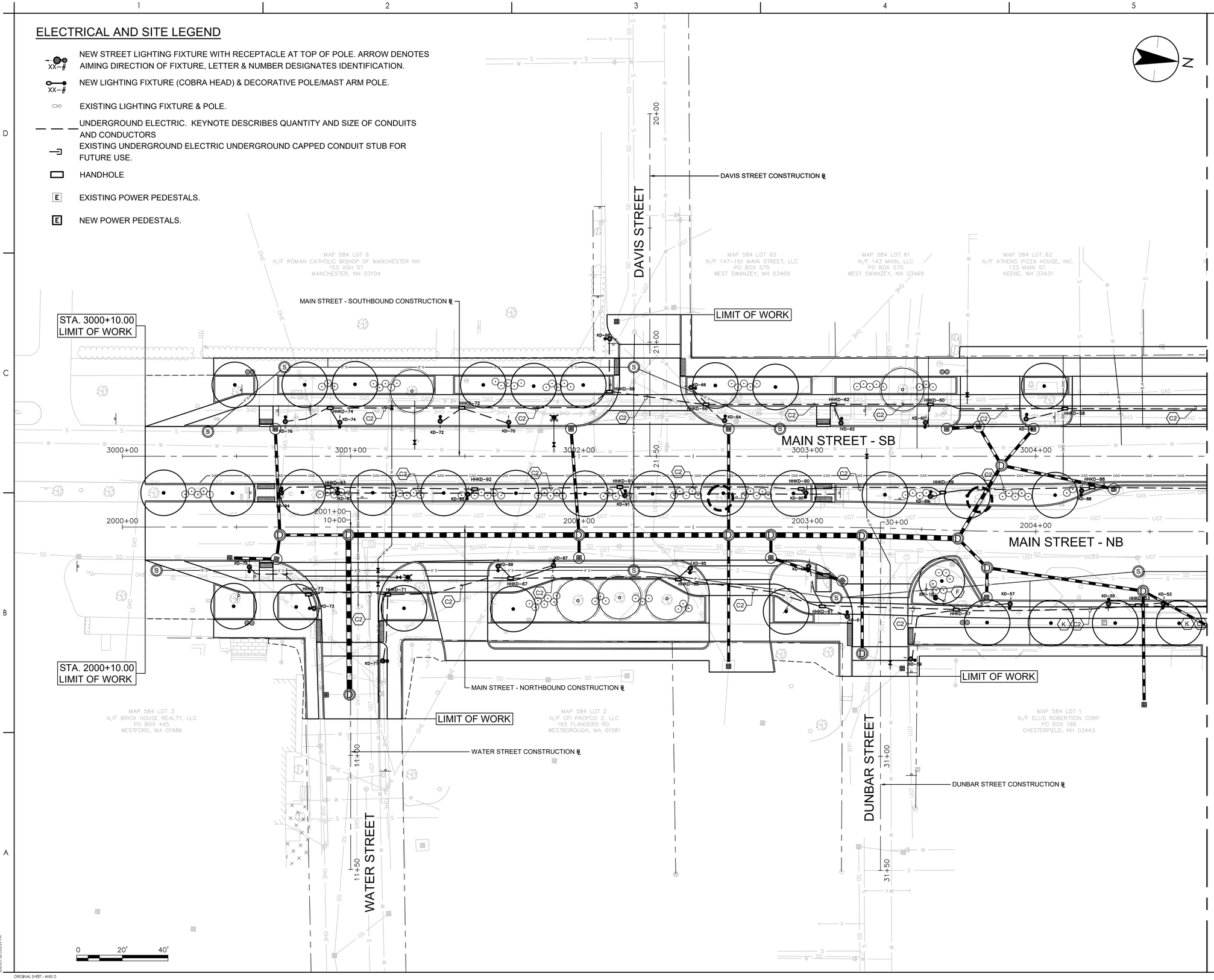
Project No. 179450806
Scale 1"=20'
Revision 0
Sheet 143 of 232
Drawing No. **SIG-01**

\\LT\PROJ\80\179450806\Transportation\Drawing\Cad\50806_sig 2025-01-28 3:02:20 PM

ORIGINAL SHEET - ANSI D

ELECTRICAL AND SITE LEGEND

- NEW STREET LIGHTING FIXTURE WITH RECEPTACLE AT TOP OF POLE. ARROW DENOTES AIMING DIRECTION OF FIXTURE, LETTER & NUMBER DESIGNATES IDENTIFICATION.
- NEW LIGHTING FIXTURE (COBRA HEAD) & DECORATIVE POLE/MAST ARM POLE.
- EXISTING LIGHTING FIXTURE & POLE.
- UNDERGROUND ELECTRIC. KEYNOTE DESCRIBES QUANTITY AND SIZE OF CONDUITS AND CONDUCTORS
- EXISTING UNDERGROUND ELECTRIC UNDERGROUND CAPPED CONDUIT STUB FOR FUTURE USE.
- HANDHOLE
- EXISTING POWER PEDESTALS.
- NEW POWER PEDESTALS.



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KEENE, NEW HAMPSHIRE

Title
LIGHTING LAYOUT PLAN
(SHEET 01 OF 06)

Project No.	Scale
179450806	1"=20'

Revision	Sheet	Drawing No.
0	145 of 232	LT-01

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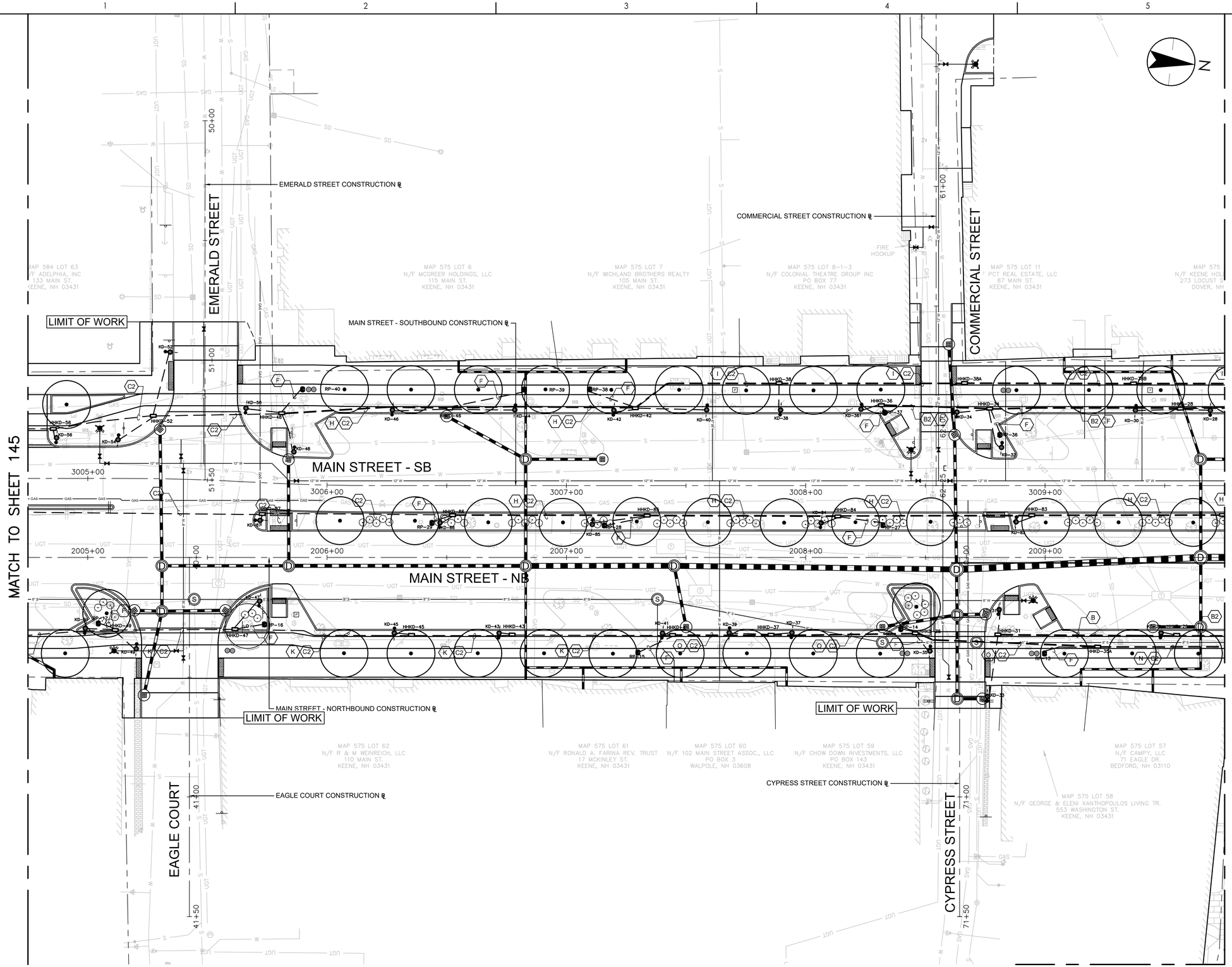

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KEENE, NEW HAMPSHIRE

Title
LIGHTING LAYOUT PLAN
(SHEET 02 OF 06)

Project No.	Scale
179450806	1"=20'
Revision: 0	Sheet: 146 of 232
	Drawing No.: **LT-02**

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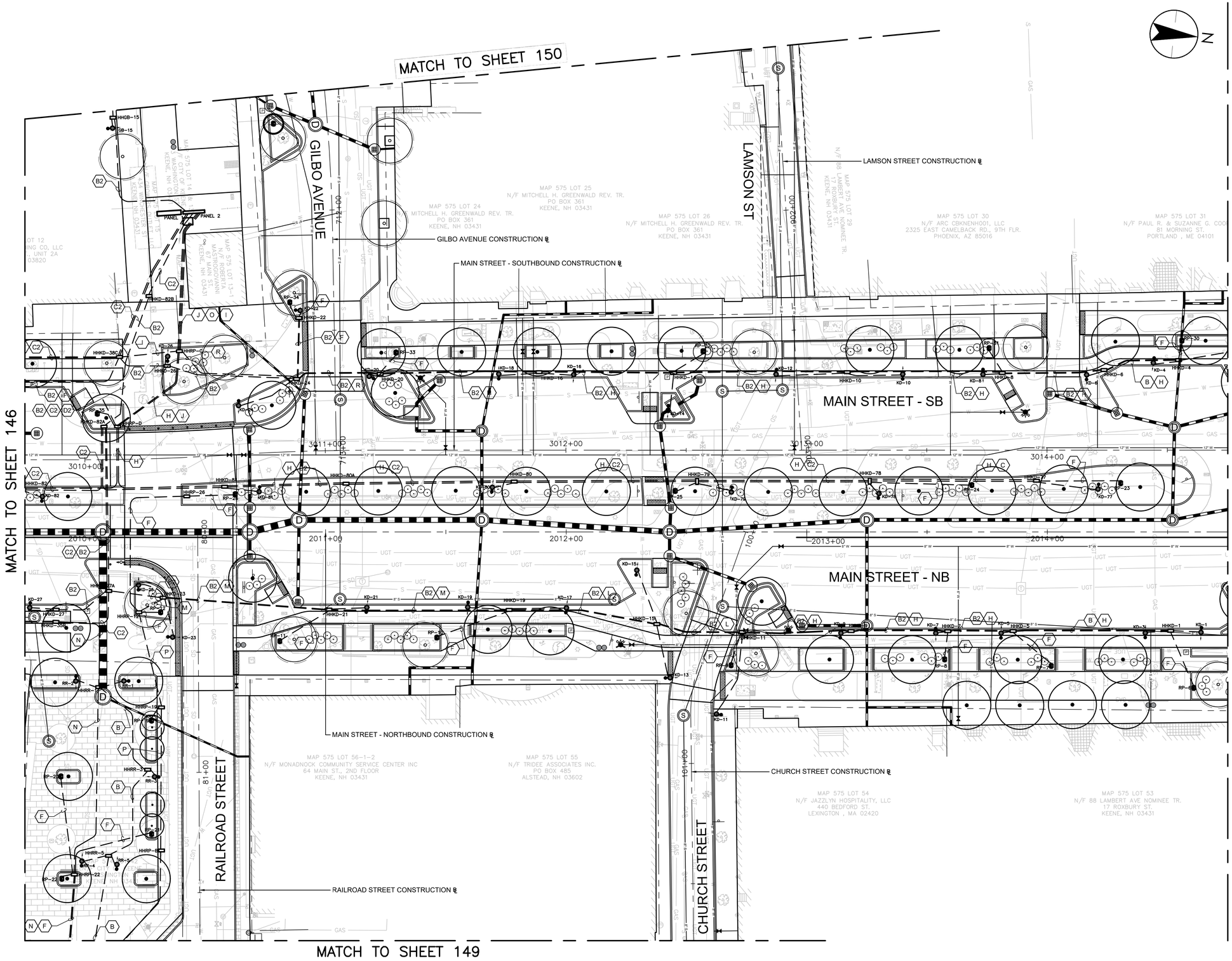

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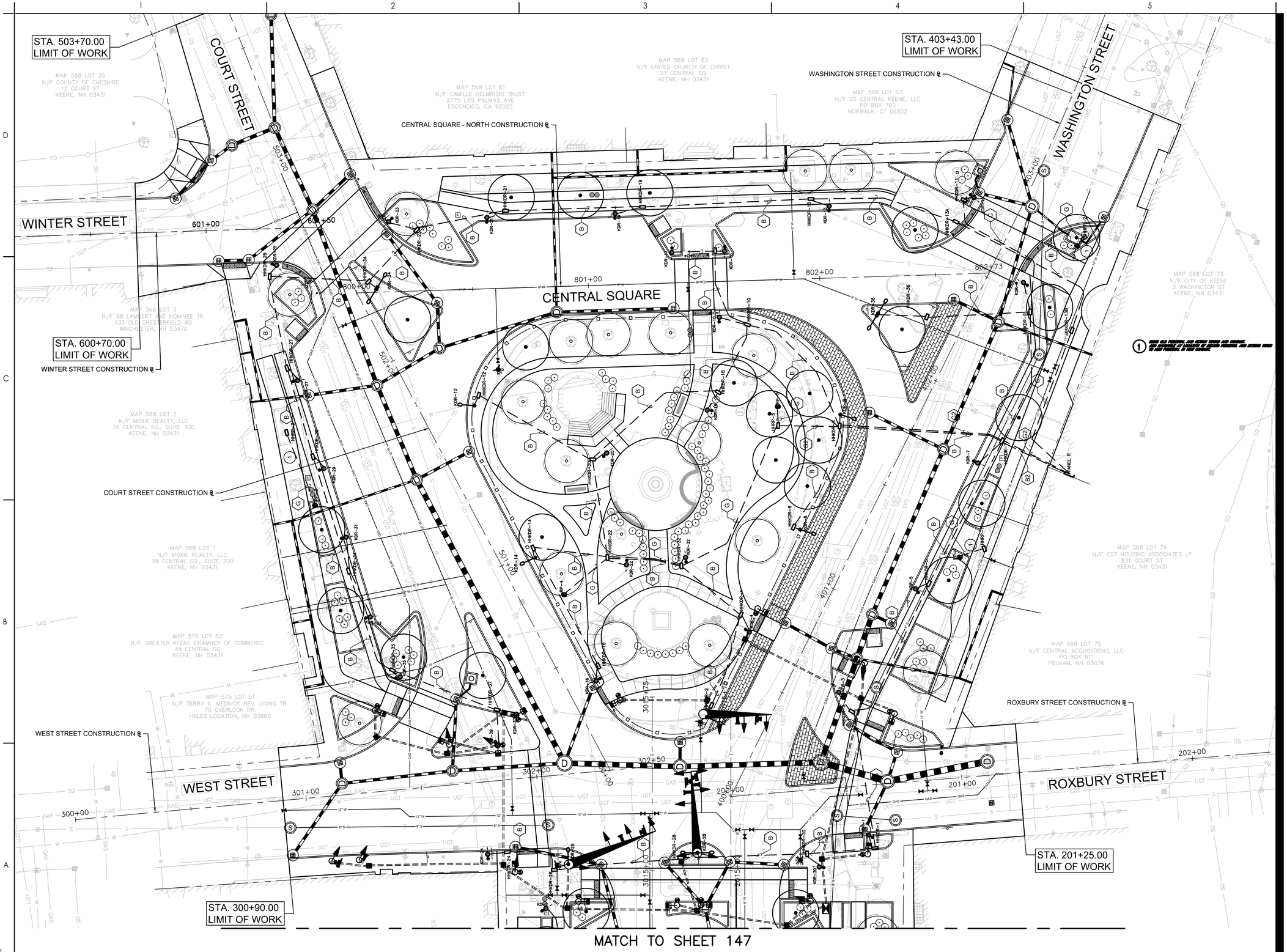
KEENE, NEW HAMPSHIRE

Title
LIGHTING LAYOUT PLAN
(SHEET 03 OF 06)

Project No.	Scale
179450806	1"=20'

Revision	Sheet	Drawing No.
0	147 of 232	LT-03



1 [illegible]

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KEENE, NEW HAMPSHIRE

Title
LIGHTING LAYOUT PLAN
(SHEET 04 OF 06)

Project No.	Scale
179450806	1"=20'
Revision 0	Sheet 148 of 232
Drawing No.	LT-04

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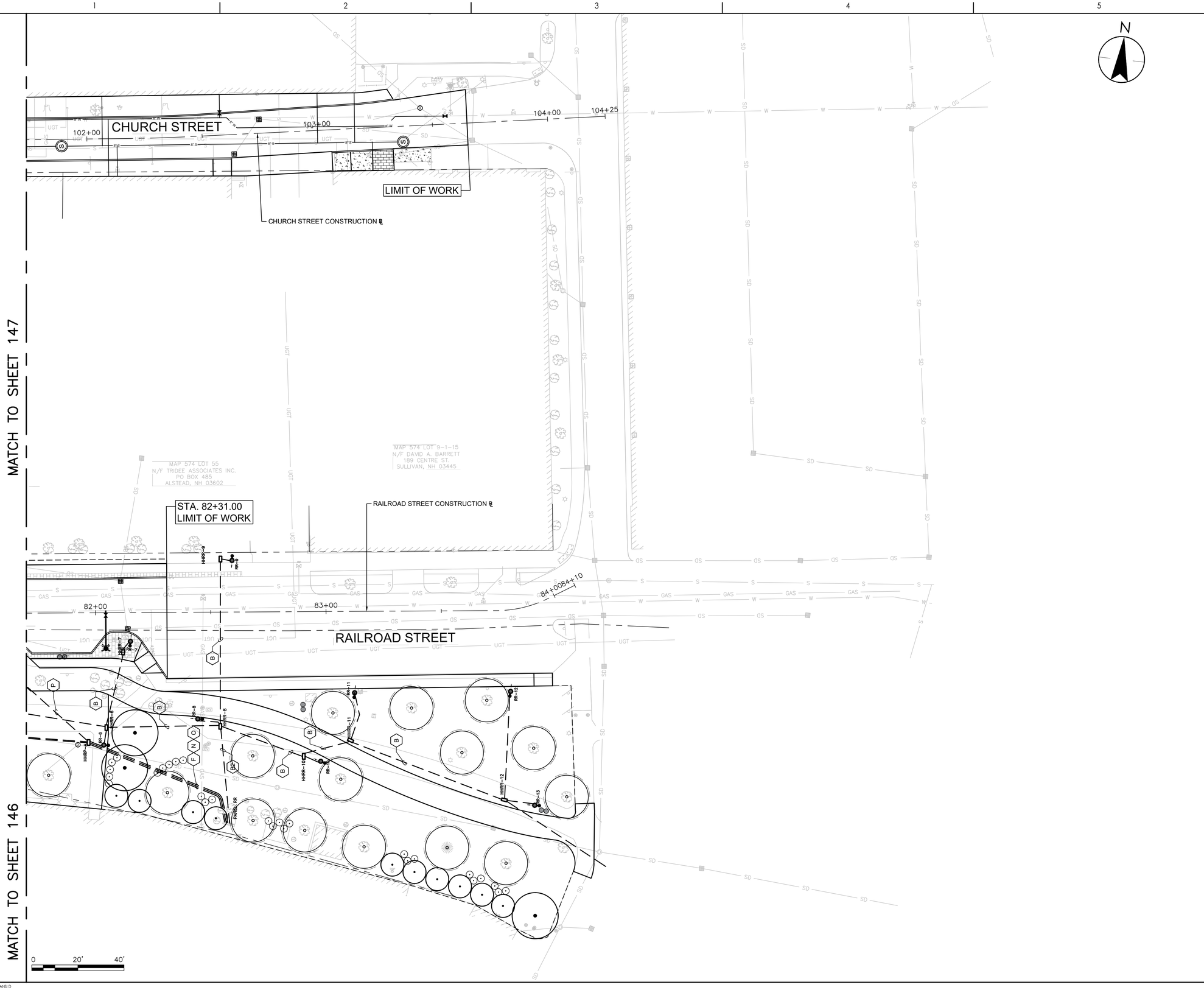

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Title
LIGHTING LAYOUT PLAN
(SHEET 05 OF 06)

Project No.	Scale
179450806	1"=20'

Revision	Sheet	Drawing No.
0	149 of 232	LT-05

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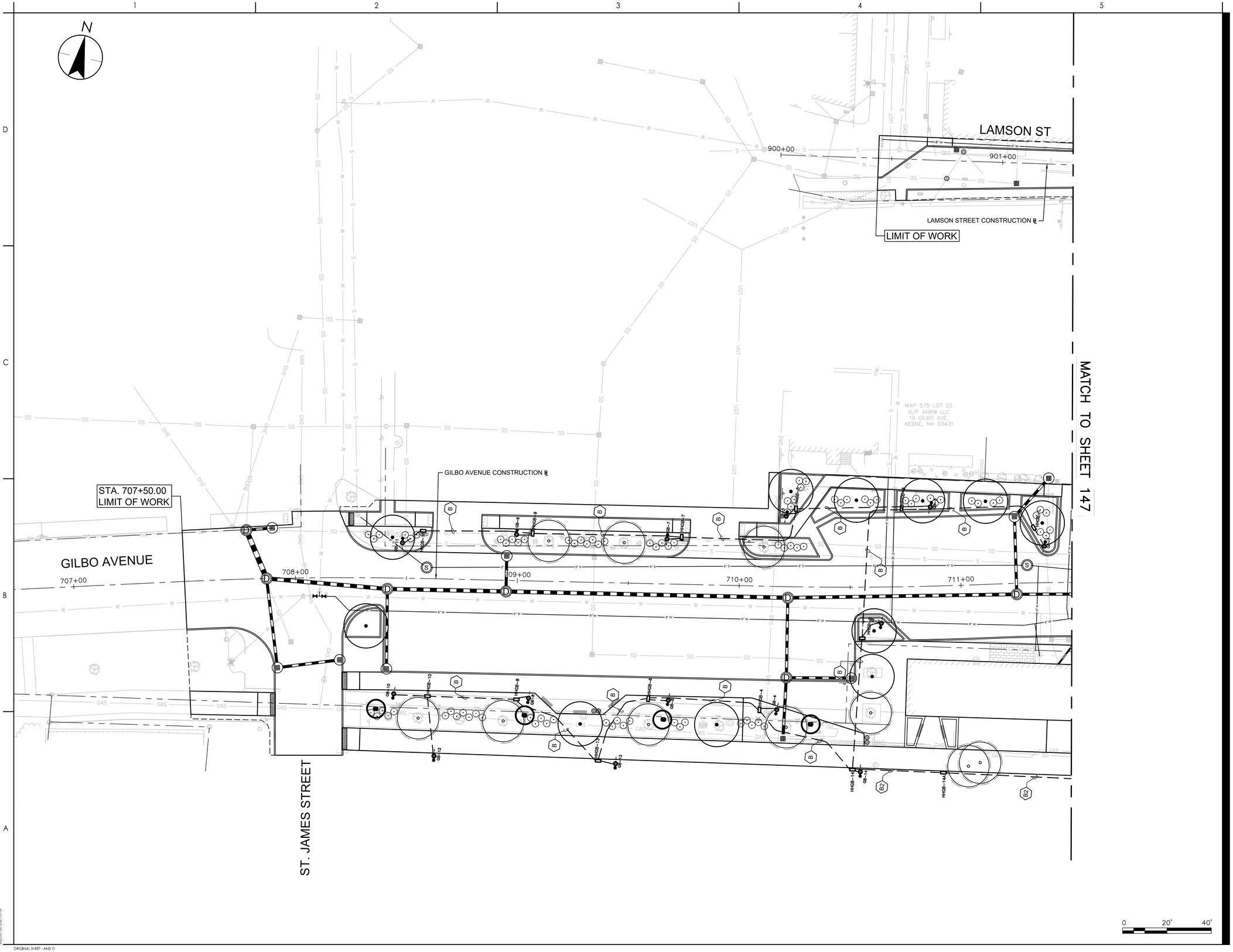

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KEENE, NEW HAMPSHIRE

Title
LIGHTING LAYOUT PLAN
(SHEET 06 OF 06)

Project No.	Scale
179450806	1"=20'

Revision	Sheet	Drawing No.
0	150 of 232	LT-06

ORIGINAL SHEET - ANSI D

SITE LIGHTING SCHEDULE

SITE LIGHT NO.	LOCATION	OFF SET	DISCRIPTION	FIXTURE TYPE	LUMINAIRE & ARM QUANTITY	LENGTH OF POLE ARM	LUMINAIRE						MOUNTING HEIGHT	BASE TYPE	FOUNDATION SIZE	REMARKS
							WATTS	LUMENS	LPW	CCT	TYPE	IES DIST				
KD-1	XXX+XX	xx.x LT / RT		A5			86.7	10601	122.3	4000K	LED	V	14	BOLT COVER	24"	
KD-2	XXX+XX	xx.x LT / RT		A5			86.7	10601	122.3	4000K	LED	V	14	BOLT COVER	24"	
KD-3	XXX+XX	xx.x LT / RT		A3			86.7	10262	118.4	4000K	LED	III	14	BOLT COVER	24"	
KD-4	XXX+XX	xx.x LT / RT		A3			86.7	10262	118.4	4000K	LED	III	14	BOLT COVER	24"	
KD-5	XXX+XX	xx.x LT / RT		A3			86.7	10262	118.4	4000K	LED	III	14	BOLT COVER	24"	
KD-6	XXX+XX	xx.x LT / RT		A5			86.7	10601	122.3	4000K	LED	V	14	BOLT COVER	24"	
KD-7	XXX+XX	xx.x LT / RT		A5			86.7	10601	122.3	4000K	LED	V	14	BOLT COVER	24"	
KD-8	XXX+XX	xx.x LT / RT		A3			86.7	10262	118.4	4000K	LED	III	14	BOLT COVER	24"	
KD-9	XXX+XX	xx.x LT / RT		A3			86.7	10262	118.4	4000K	LED	III	14	BOLT COVER	24"	
KD-10	XXX+XX	xx.x LT / RT		A5			86.7	10601	122.3	4000K	LED	V	14	BOLT COVER	24"	
KD-11	XXX+XX	xx.x LT / RT		A3			86.7	10262	118.4	4000K	LED	III	14	BOLT COVER	24"	
KD-12	XXX+XX	xx.x LT / RT		A3			86.7	10262	118.4	4000K	LED	III	14	BOLT COVER	24"	
KD-13	XXX+XX	xx.x LT / RT		A3			86.7	10262	118.4	4000K	LED	III	14	BOLT COVER	24"	
KD-14	XXX+XX	xx.x LT / RT		A3			86.7	10262	118.4	4000K	LED	III	14	BOLT COVER	24"	
KD-15	XXX+XX	xx.x LT / RT		A3			86.7	10262	118.4	4000K	LED	III	14	BOLT COVER	24"	
KD-16	XXX+XX	xx.x LT / RT		A3			86.7	10262	118.4	4000K	LED	III	14	BOLT COVER	24"	
KD-17	XXX+XX	xx.x LT / RT		A3			86.7	10262	118.4	4000K	LED	III	14	BOLT COVER	24"	
KD-18	XXX+XX	xx.x LT / RT		A5			86.7	10601	122.3	4000K	LED	V	14	BOLT COVER	24"	
KD-19	XXX+XX	xx.x LT / RT		A5			86.7	10601	122.3	4000K	LED	V	14	BOLT COVER	24"	
KD-20	XXX+XX	xx.x LT / RT		A3			86.7	10262	118.4	4000K	LED	III	14	BOLT COVER	24"	
KD-21	XXX+XX	xx.x LT / RT		A3			86.7	10262	118.4	4000K	LED	III	14	BOLT COVER	24"	
KD-22	XXX+XX	xx.x LT / RT		A3			86.7	10262	118.4	4000K	LED	III	14	BOLT COVER	24"	
KD-23	XXX+XX	xx.x LT / RT		A3			86.7	10262	118.4	4000K	LED	III	14	BOLT COVER	24"	
KD-24	XXX+XX	xx.x LT / RT		A3			86.7	10262	118.4	4000K	LED	III	14	BOLT COVER	24"	
KD-25	XXX+XX	xx.x LT / RT		A3			86.7	10262	118.4	4000K	LED	III	14	BOLT COVER	24"	
KD-26	XXX+XX	xx.x LT / RT		A5			86.7	10601	122.3	4000K	LED	V	14	BOLT COVER	24"	
KD-27	XXX+XX	xx.x LT / RT		A5			86.7	10601	122.3	4000K	LED	V	14	BOLT COVER	24"	
KD-28	XXX+XX	xx.x LT / RT		A5			86.7	10601	122.3	4000K	LED	V	14	BOLT COVER	24"	
KD-29	XXX+XX	xx.x LT / RT		A3			86.7	10262	118.4	4000K	LED	III	14	BOLT COVER	24"	
KD-30	XXX+XX	xx.x LT / RT		A3			86.7	10262	118.4	4000K	LED	III	14	BOLT COVER	24"	
KD-31	XXX+XX	xx.x LT / RT		A3			86.7	10262	118.4	4000K	LED	III	14	BOLT COVER	24"	
KD-32	XXX+XX	xx.x LT / RT		A3			86.7	10262	118.4	4000K	LED	III	14	BOLT COVER	24"	
KD-33	XXX+XX	xx.x LT / RT		A3			86.7	10262	118.4	4000K	LED	III	14	BOLT COVER	24"	
KD-34	XXX+XX	xx.x LT / RT		A3			86.7	10262	118.4	4000K	LED	III	14	BOLT COVER	24"	
KD-35	XXX+XX	xx.x LT / RT		A3			86.7	10262	118.4	4000K	LED	III	14	BOLT COVER	24"	
KD-36	XXX+XX	xx.x LT / RT		A3			86.7	10262	118.4	4000K	LED	III	14	BOLT COVER	24"	
KD-37	XXX+XX	xx.x LT / RT		A3			86.7	10262	118.4	4000K	LED	III	14	BOLT COVER	24"	
KD-38	XXX+XX	xx.x LT / RT		A5			86.7	10601	122.3	4000K	LED	V	14	BOLT COVER	24"	
KD-39	XXX+XX	xx.x LT / RT		A5			86.7	10601	122.3	4000K	LED	V	14	BOLT COVER	24"	
KD-40	XXX+XX	xx.x LT / RT		A3			86.7	10262	118.4	4000K	LED	III	14	BOLT COVER	24"	
KD-41	XXX+XX	xx.x LT / RT		A3			86.7	10262	118.4	4000K	LED	III	14	BOLT COVER	24"	
KD-42	XXX+XX	xx.x LT / RT		A5			86.7	10601	122.3	4000K	LED	V	14	BOLT COVER	24"	
KD-43	XXX+XX	xx.x LT / RT		A3			86.7	10262	118.4	4000K	LED	III	14	BOLT COVER	24"	
KD-44	XXX+XX	xx.x LT / RT		A3			86.7	10262	118.4	4000K	LED	III	14	BOLT COVER	24"	
KD-45	XXX+XX	xx.x LT / RT		A5			86.7	10601	122.3	4000K	LED	V	14	BOLT COVER	24"	
KD-46	XXX+XX	xx.x LT / RT		A5			86.7	10601	122.3	4000K	LED	V	14	BOLT COVER	24"	
KD-47	XXX+XX	xx.x LT / RT		A3			86.7	10262	118.4	4000K	LED	III	14	BOLT COVER	24"	
KD-48	XXX+XX	xx.x LT / RT		A3			86.7	10262	118.4	4000K	LED	III	14	BOLT COVER	24"	
KD-49	XXX+XX	xx.x LT / RT		A3			86.7	10262	118.4	4000K	LED	III	14	BOLT COVER	24"	
KD-50	XXX+XX	xx.x LT / RT		A3			86.7	10262	118.4	4000K	LED	III	14	BOLT COVER	24"	
KD-51	XXX+XX	xx.x LT / RT		A3			86.7	10262	118.4	4000K	LED	III	14	BOLT COVER	24"	
KD-52	XXX+XX	xx.x LT / RT		A3			86.7	10262	118.4	4000K	LED	III	14	BOLT COVER	24"	
KD-53	XXX+XX	xx.x LT / RT		A3			86.7	10262	118.4	4000K	LED	III	14	BOLT COVER	24"	
KD-54	XXX+XX	xx.x LT / RT		A3			86.7	10262	118.4	4000K	LED	III	14	BOLT COVER	24"	
KD-55	XXX+XX	xx.x LT / RT		A5			86.7	10601	122.3	4000K	LED	V	14	BOLT COVER	24"	
KD-56	XXX+XX	xx.x LT / RT		A5			86.7	10601	122.3	4000K	LED	V	14	BOLT COVER	24"	
KD-57	XXX+XX	xx.x LT / RT		A3			86.7	10262	118.4	4000K	LED	III	14	BOLT COVER	24"	
KD-58	XXX+XX	xx.x LT / RT		A3			86.7	10262	118.4	4000K	LED	III	14	BOLT COVER	24"	
KD-59	XXX+XX	xx.x LT / RT		A3			86.7	10262	118.4	4000K	LED	III	14	BOLT COVER	24"	
KD-60	XXX+XX	xx.x LT / RT		A5			86.7	10601	122.3	4000K	LED	V	14	BOLT COVER	24"	
KD-61	XXX+XX	xx.x LT / RT		A3			86.7	10262	118.4	4000K	LED	III	14	BOLT COVER	24"	
KD-62	XXX+XX	xx.x LT / RT		A3			86.7	10262	118.4	4000K	LED	III	14	BOLT COVER	24"	
KD-63	XXX+XX	xx.x LT / RT		A3			86.7	10262	118.4	4000K	LED	III	14	BOLT COVER	24"	
KD-64	XXX+XX	xx.x LT / RT		A3			86.7	10262	118.4	4000K	LED	III	14	BOLT COVER	24"	
KD-65	XXX+XX	xx.x LT / RT		A3			86.7	10262	118.4	4000K	LED	III	14	BOLT COVER	24"	
KD-66	XXX+XX	xx.x LT / RT		A3			86.7	10262	118.4	4000K	LED	III	14	BOLT COVER	24"	
KD-67	XXX+XX	xx.x LT / RT		A5			86.7	10601	122.3	4000K	LED	V	14	BOLT COVER	24"	
KD-68	XXX+XX	xx.x LT / RT		A3			86.7	10262	118.4	4000K	LED	III	14	BOLT COVER	24"	
KD-69	XXX+XX	xx.x LT / RT		A3			86.7	10262	118.4	4000K	LED	III	14	BOLT COVER	24"	
KD-70	XXX+XX	xx.x LT / RT		A5			86.7	10601	122.3	4000K	LED	V	14	BOLT COVER	24"	
KD-71	XXX+XX	xx.x LT / RT		A3			86.7	10262	118.4	4000K	LED	III	14	BOLT COVER	24"	
KD-72	XXX+XX	xx.x LT / RT		A3			86.7	10262	118.4	4000K	LED	III	14	BOLT COVER	24"	
KD-73	XXX+XX	xx.x LT / RT		A3			86.7	10262	118.4	4000K	LED	III	14	BOLT COVER	24"	
KD-74	XXX+XX	xx.x LT / RT		A5			86.7	10601	122.3	4000K	LED	V	14	BOLT COVER	24"	
KD-75	XXX+XX	xx.x LT / RT		A3			86.7	10262	118.4	4000K	LED	III	14	BOLT COVER	24"	
KD-76	XXX+XX	xx.x LT / RT		A3			86.7	10262	118.4	4000K	LED	III	14	BOLT COVER	24"	
KD-77	XXX+XX	xx.x LT / RT		A3			86.7	10262	118.4	4000K	LED	III	14	BOLT COVER	24"	
KD-78	XXX+XX	xx.x LT / RT		A3			86.7	10262	118.4	4000K	LED	III	14	BOLT COVER	24"	
KD-79	XXX+XX	xx.x LT / RT		A3			86.7	10262	118.4	4000K	LED	III	14	BOLT COVER	24"	
KD-80	XXX+XX	xx.x LT / RT		A3			86.7	10262	118.4	4000K	LED	III	14	BOLT COVER	24"	
KD-81	XXX+XX	xx.x LT / RT		A3			86.7	10262	118.4	4000K	LED	III	14	BOLT COVER	24"	
KD-82	XXX+XX	xx.x LT / RT		A3			86.7	10262	118.4	4000K	LED	III	14	BOLT COVER	24"	
KD-83	XXX+XX	xx.x LT / RT		A3			86.7	10262	118.4	4000K	LED	III	14	BOLT COVER	24"	
KD-84	XXX+XX	xx.x LT / RT		A3			86.7	10262	118.4	4000K	LED	III	14	BOLT COVER	24"	
KD-85	XXX+XX	xx.x LT / RT		A3			86.7	10262	118.4	4000K	LED	III	14	BOLT COVER	24"	
KD-86	XXX+XX	xx.x LT / RT		A3			86.7	10262	118.4	4000K	LED	III	14	BOLT COVER	24"	
KD-87	XXX+XX	xx.x LT / RT		A3			86.7	10262	118.4	4000K	LED	III	14	BOLT COVER	24"	
KD-88	XXX+XX	xx.x LT / RT		A3			86.7	10262	118.4	4000K	LED	III	14	BOLT COVER	24"	
KD-89	XXX+XX	xx.x LT / RT		A3			86.7	10262	118.4	4000K	LED	III	14	BOLT COVER	24"	
KD-90	XXX+XX	xx.x LT / RT		A3			86.7	10262	118.4	4000K	LED	III	14	BOLT COVER	24"	
KD-91	XXX+XX	xx.x LT / RT		A3			86.7	10262	118.4	4000K	LED	III	14	BOLT COVER	24"	
KD-92	XXX+XX	xx.x LT / RT		A3			86.7	10262	118.4	4000K	LED	III	14	BOLT COVER	24"	
KD-93	XXX+XX	xx.x LT / RT		A3			86.7	10262	118.4	4000K	LED	III	14	BOLT COVER	24"	
KD-94	XXX+XX	xx.x LT / RT		A3			86.7	10262	118.4	4000K	LED	III	14	BOLT COVER	24"	

SITE LIGHTING SCHEDULE

SITE LIGHT NO.	LOCATION	OFF SET	DISCRIPTION	FIXTURE TYPE	LUMINAIRE & ARM QUANTITY	LENGTH OF POLE ARM	LUMINAIRE						MOUNTING HEIGHT	BASE TYPE	FOUNDATION SIZE	REMARKS
							WATTS	LUMENS	LPW	CCT	TYPE	IES DIST				
KDR-1	XXX+XX	xx.x LT / RT	DECORATIVE POST TOP	A3			86.7	10262	118.4	4000K	LED	III	14	BOLT COVER	24"	
KDR-2	XXX+XX	xx.x LT / RT		B	1	8	92	11560	125.7	4000K	LED		23			
KDR-3	XXX+XX	xx.x LT / RT		A3			86.7	10262	118.4	4000K	LED	III	14	BOLT COVER	24"	
KDR-4	XXX+XX	xx.x LT / RT		A3			86.7	10262	118.4	4000K	LED	III	14	BOLT COVER	24"	
KDR-5	XXX+XX	xx.x LT / RT		A5			86.7	10601	122.3	4000K	LED	V	14	BOLT COVER	24"	
KDR-6	XXX+XX	xx.x LT / RT		B	1	8	92	11560	125.7	4000K	LED		23			
KDR-7	XXX+XX	xx.x LT / RT		A5			86.7	10601	122.3	4000K	LED	V	14	BOLT COVER	24"	
KDR-8	XXX+XX	xx.x LT / RT		B	1	8	92	11560	125.7	4000K	LED		23			
KDR-9	XXX+XX	xx.x LT / RT		A3			86.7	10262	118.4	4000K	LED	III	14	BOLT COVER	24"	
KDR-10	XXX+XX	xx.x LT / RT		A3			86.7	10262	118.4	4000K	LED	III	14	BOLT COVER	24"	
KDR-11	XXX+XX	xx.x LT / RT		A3			45									
KDR-12	XXX+XX	xx.x LT / RT		B	1	8	92	11560	125.7	4000K	LED		23			
KDR-13	XXX+XX	xx.x LT / RT		A5			86.7	10601	122.3	4000K	LED	V	14	BOLT COVER	24"	
KDR-14	XXX+XX	xx.x LT / RT		B	1	8	92	11560	125.7	4000K	LED		23			
KDR-15	XXX+XX	xx.x LT / RT		A3			86.7	10262	118.4	4000K	LED	III	14	BOLT COVER	24"	
KDR-16	XXX+XX	xx.x LT / RT		A3			86.7	10262	118.4	4000K	LED	III	14	BOLT COVER	24"	
KDR-17	XXX+XX	xx.x LT / RT		A3			86.7	10262	118.4	4000K	LED	III	14	BOLT COVER	24"	
KDR-18	XXX+XX	xx.x LT / RT		A5			86.7	10601	122.3	4000K	LED	V	14	BOLT COVER	24"	
KDR-19	XXX+XX	xx.x LT / RT		A5			86.7	10601	122.3	4000K	LED	V	14	BOLT COVER	24"	
KDR-20	XXX+XX	xx.x LT / RT		A5			86.7	10601	122.3	4000K	LED	V	14	BOLT COVER	24"	
KDR-21	XXX+XX	xx.x LT / RT		A5			86.7	10601	122.3	4000K	LED	V	14	BOLT COVER	24"	
KDR-22	XXX+XX	xx.x LT / RT		A5			86.7	10601	122.3	4000K	LED	V	14	BOLT COVER	24"	
KDR-23	XXX+XX	xx.x LT / RT		A3			86.7	10262	118.4	4000K	LED	III	14	BOLT COVER	24"	
KDR-24	XXX+XX	xx.x LT / RT		A3			86.7	10262	118.4	4000K	LED	III	14	BOLT COVER	24"	
KDR-25	XXX+XX	xx.x LT / RT		A3			86.7	10262	118.4	4000K	LED	III	14	BOLT COVER	24"	
KDR-26	XXX+XX	xx.x LT / RT		B	1	8	92	11560	125.7	4000K	LED		23			
KDR-27	XXX+XX	xx.x LT / RT		A5			86.7	10601	122.3	4000K	LED	V	14	BOLT COVER	24"	
KDR-28	XXX+XX	xx.x LT / RT		B	2	8	92	11560	125.7	4000K	LED		23			
KDR-29	XXX+XX	xx.x LT / RT		A5			86.7	10601	122.3	4000K	LED	V	14	BOLT COVER	24"	
KDR-30	XXX+XX	xx.x LT / RT		A3			86.7	10262	118.4	4000K	LED	III	14	BOLT COVER	24"	
KDR-31	XXX+XX	xx.x LT / RT		A5			86.7	10601	122.3	4000K	LED	V	14	BOLT COVER	24"	
KDR-32	XXX+XX	xx.x LT / RT		A5			86.7	10601	122.3	4000K	LED	V	14	BOLT COVER	24"	
KDR-33	XXX+XX	xx.x LT / RT		A5			86.7	10601	122.3	4000K	LED	V	14	BOLT COVER	24"	
KDR-34	XXX+XX	xx.x LT / RT		B	2	8	92	11560	125.7	4000K	LED		23			
KDR-35	XXX+XX	xx.x LT / RT		A3			86.7	10262	118.4	4000K	LED	III	14	BOLT COVER	24"	
KDR-36	XXX+XX	xx.x LT / RT		B	2	8	92	11560	125.7	4000K	LED		23			
KDR-37	XXX+XX	xx.x LT / RT		A3			86.7	10262	118.4	4000K	LED	III	14	BOLT COVER	24"	
KDR-39	XXX+XX	xx.x LT / RT		A3			86.7	10262	118.4	4000K	LED	III	14	BOLT COVER	24"	
RR-1	XXX+XX	xx.x LT / RT		A5			86.7	10601	122.3	4000K	LED	V	14	BOLT COVER	24"	
RR-2	XXX+XX	xx.x LT / RT		A5			86.7	10601	122.3	4000K	LED	V	14	BOLT COVER	24"	
RR-3	XXX+XX	xx.x LT / RT		A5			86.7	10601	122.3	4000K	LED	V	14	BOLT COVER	24"	
RR-4	XXX+XX	xx.x LT / RT		A5			86.7	10601	122.3	4000K	LED	V	14	BOLT COVER	24"	
RR-5	XXX+XX	xx.x LT / RT		A5			86.7	10601	122.3	4000K	LED	V	14	BOLT COVER	24"	
RR-6	XXX+XX	xx.x LT / RT		A5			86.7	10601	122.3	4000K	LED	V	14	BOLT COVER	24"	
RR-7	XXX+XX	xx.x LT / RT		A3			86.7	10262	118.4	4000K	LED	III	14	BOLT COVER	24"	
RR-8	XXX+XX	xx.x LT / RT		A5			86.7	10601	122.3	4000K	LED	V	14	BOLT COVER	24"	
RR-9	XXX+XX	xx.x LT / RT		A3			86.7	10262	118.4	4000K	LED	III	14	BOLT COVER	24"	
RR-10	XXX+XX	xx.x LT / RT		A5			86.7	10601	122.3	4000K	LED	V	14	BOLT COVER	24"	
RR-11	XXX+XX	xx.x LT / RT		A3			86.7	10262	118.4	4000K	LED	III	14	BOLT COVER	24"	
RR-12	XXX+XX	xx.x LT / RT		A5			86.7	10601	122.3	4000K	LED	V	14	BOLT COVER	24"	
RR-13	XXX+XX	xx.x LT / RT		A3			86.7	10262	118.4	4000K	LED	III	14	BOLT COVER	24"	
GB-1	XXX+XX	xx.x LT / RT		A3			86.7	10262	118.4	4000K	LED	III	14	BOLT COVER	24"	
GB-2	XXX+XX	xx.x LT / RT		A3			86.7	10262	118.4	4000K	LED	III	14	BOLT COVER	24"	
GB-3	XXX+XX	xx.x LT / RT		A3			86.7	10262	118.4	4000K	LED	III	14	BOLT COVER	24"	
GB-4	XXX+XX	xx.x LT / RT		A3			86.7	10262	118.4	4000K	LED	III	14	BOLT COVER	24"	
GB-5	XXX+XX	xx.x LT / RT		A3			86.7	10262	118.4	4000K	LED	III	14	BOLT COVER	24"	
GB-6	XXX+XX	xx.x LT / RT		A3			86.7	10262	118.4	4000K	LED	III	14	BOLT COVER	24"	
GB-7	XXX+XX	xx.x LT / RT		A3			86.7	10262	118.4	4000K	LED	III	14	BOLT COVER	24"	
GB-8	XXX+XX	xx.x LT / RT		A3			86.7	10262	118.4	4000K	LED	III	14	BOLT COVER	24"	
GB-9	XXX+XX	xx.x LT / RT		A3			86.7	10262	118.4	4000K	LED	III	14	BOLT COVER	24"	
GB-10	XXX+XX	xx.x LT / RT		A3			86.7	10262	118.4	4000K	LED	III	14	BOLT COVER	24"	
GB-11	XXX+XX	xx.x LT / RT		A5			86.7	10601	122.3	4000K	LED	V	14	BOLT COVER	24"	
GB-12	XXX+XX	xx.x LT / RT		A5			86.7	10601	122.3	4000K	LED	V	14	BOLT COVER	24"	
GB-13	XXX+XX	xx.x LT / RT		A5			86.7	10601	122.3	4000K	LED	V	14	BOLT COVER	24"	
GB-14	XXX+XX	xx.x LT / RT		A5			86.7	10601	122.3	4000K	LED	V	14	BOLT COVER	24"	

0 20' 40'

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Notes

Revision	By	Appd	YYYY-MM-DD

Issued	By	Appd	YYYY-MM-DD
File Name: 50806_LIGHTING DETAILS	XXX	TJG	DEM	2025-01-28
	Dwn.	Dsgn.	Chkd.	YYYY-MM-DD

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KEENE DOWNTOWN IMPROVEMENTS

KEENE, NEW HAMPSHIRE

Title
LIGHTING SCHEDULES
(SHEET 01 OF 03)

Project No.	Scale
179450806	1"=20'

Revision	Sheet	Drawing No.
0	145 of 232	LT-10

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ORIGINAL SHEET - ANSI D

PANEL No. R

BUS 225A
PANEL RATING KAIC
SUPPLY VOLTAGE 208Y/120V
SERVICE 1 PHASE, 3 WIRE

LOCATION CITY HALL
MOUNTING SURFACE
DRAWING No.

WIRING WIRE	WIRING COND	DESCRIPTION	CODE	VA OR W ØA	VA OR W ØB	VA OR W ØC	BREAKER POLE	BREAKER A	CKT. NO	BUS CONN	CKT. NO	BREAKER POLE	BREAKER A	VA OR W ØA	VA OR W ØB	VA OR W ØC	CODE	DESCRIPTION	WIRING COND	WIRING WIRE
		BLANK					1		1		2	1	15				RECP	NEW RECEPTACLE POST 4		
		BLANK					1		3		4	1	15				RECP	NEW RECEPTACLE POST 5		
		NEW RECEPTACLE POST 4	RECP				1	40	5		6	1	60				RECP	NEW RECEPTACLE POST 4		
		NEW RECEPTACLE POST 5	RECP				1	40	7	x	8	1	60				RECP	NEW RECEPTACLE POST 5		
		EXTG RECEPTACLE POST 1	RECP				1	15	9		10	1	20				LTS	LIGHTING CONTROL		
		EXTG RECEPTACLE POST 2	RECP				1	15	11		12	1	40				RECP	EXTG RECEPTACLE POST 1		
		EXTG RECEPTACLE POST 3	RECP				1	15	13	x	14	1	40				RECP	EXTG RECEPTACLE POST 2		
		EXTG RECEPTACLE POST 1	RECP				1	60	15		16	1	40				RECP	EXTG RECEPTACLE POST 3		
		EXTG RECEPTACLE POST 2	RECP				1	60	17		18	2	20				LTS	LIGHTS KDR-13,19,21,23,25		
		EXTG RECEPTACLE POST 3	RECP				1	60	19	x	20						LTS	27,29,31,33,34,37 & 39		
		LIGHTS KDR-1,3,5,7,9,11, 24,26,	LTS				2		20		22	2	20				LTS	LIGHTS KDR-2,4,6,8,10,12,14,		
		28,30 & 36	LTS						23		24						LTS	15,16,17,18,20,22 & 32		
									25	x	26									
									27		28									
									29		30									
									31	x	32									
									33		34									
									35		36									
									37	x	38									
									39		40									
									41		42									
		TOTAL 1									TOTAL 2									
		TOTAL 2																		
		TOTAL 1 + 2																		

CONN. LOAD TOTAL
CONN. AMPERES TOTAL
EST. DEMAND LOAD TOTAL
EST. DEMAND AMPERES TOTAL

MAIN BREAKER
FEEDER ENTRANCE
FEEDER SIZE 350 A
SOURCE
PANEL TYPE

MAIN LUGS MLO
ENCLOSURE TYPE NEMA 1
ACCESSORIES * INDICATES GFI BREAKER
** INDICATES LOCK ON DEVICE
*** TWISTLOCK RECPTACLE

PROVIDE 'HACR' RATED TYP. BREAKERS FOR MECHANICAL MOTOR LOADS

PANEL No. RR

BUS 400A
PANEL RATING KAIC
SUPPLY VOLTAGE 208Y/120V
SERVICE 3 PHASE, 4 WIRE

LOCATION RAILROAD SQUARE
MOUNTING ENCLOSURE
DRAWING No.

WIRING WIRE	WIRING COND	DESCRIPTION	CODE	VA OR W ØA	VA OR W ØB	VA OR W ØC	BREAKER POLE	BREAKER A	CKT. NO	BUS CONN	CKT. NO	BREAKER POLE	BREAKER A	VA OR W ØA	VA OR W ØB	VA OR W ØC	CODE	DESCRIPTION	WIRING COND	WIRING WIRE
		DISC SW EAST END OF RR SQ	POWR				2	10C	1	x	2						RECP			
			POWR						3		4	3	30				RECP	PEDESTAL RR SQUARE		
		PEDESTALS NE MAIN ST & RR SQ	RECP				2	10C	5		6						RECP			
			RECP						7	x	8	2	10C				RECP	PEDESTAL MAIN ST WEST		
		PEDESTALS NE MAIN ST & RR SQ	RECP				2	10C	9		10						RECP			
			RECP						11		12	2	10C				RECP	IRRIGATION RECEP		
		SERVICE RECEPTACLE	RECP				1	20	13	x	14						RECP			
		POLE LIGHTS 1ST 3 ON RR	LTS				2	30	15		16	2	10C				LTS	POLE LIGHT, CTRL, GFI		
			LTS						17		18						LTS			
		PEDESTALS RR SQ	RECP				2	10C	19	x	20	1	20					MAINTENANCE SHED??		
			RECP						21		22	1	20				LTS	LIGHTING CONTACTOR		
		RECEPT IN AMPITHEATER	RECP				2	20	23		24	1	20					SPARE		
			RECP						25	x	26	1	20				LTS	RR STREET LIGHTS		
		LIGHTS RR PARK RR-1,2,3,4,5,	LTS				2		27		28	1	20				LTS	RR STREET LIGHTS		
		6,7,8,9 & 10	LTS						29		30	1	20				LTS	EAGLE COURT POLES		
		LIGHTS RR PARK RR-11,12 &13	LTS				2		31	x	32	1	20				RECP	RECEP SHED		
			LTS						33		34	1	20				LTS	LIGHT SHED		
									35		36	1	20				LTS	CYPRESS POLE LIGHTS		
									37	x	38									
									39		40									
									41		42									
		TOTAL 1									TOTAL 2									
		TOTAL 2																		
		TOTAL 1 + 2																		

CONN. LOAD TOTAL
CONN. AMPERES TOTAL
EST. DEMAND LOAD TOTAL
EST. DEMAND AMPERES TOTAL

MAIN BREAKER ?
FEEDER ENTRANCE TOP/BOTTOM
FEEDER SIZE 350 A SEE ONE-LINE
SOURCE SEE ONE-LINE
PANEL TYPE DOOR-IN-DOOR

MAIN LUGS MCB
ENCLOSURE TYPE NEMA 1
ACCESSORIES * INDICATES GFI BREAKER
** INDICATES LOCK ON DEVICE
*** TWISTLOCK RECPTACLE

PROVIDE 'HACR' RATED TYP. BREAKERS FOR MECHANICAL MOTOR LOADS

0 20' 40'

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File Name: 50806_LIGHTING DETAILS	XXX Dwn.	TJG Dsgn.	DEM Chkd. 2025-01-28 YYYY-MM-DD

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KEENE, NEW HAMPSHIRE

Title
LIGHTING SCHEDULES
(SHEET 02 OF 03)

Project No. 179450806
Scale 1"=20'
Revision 0
Sheet 145 of 232
Drawing No. LT-11

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ORIGINAL SHEET - ANSI D

PANEL No. PANEL 1

(EXISTING)

BUS 400A
PANEL RATING KAIC
SUPPLY VOLTAGE 120/240V
SERVICE 1 PHASE

LOCATION CORNER NEWS
MOUNTING SURFACE
DRAWING No.

WIRING WIRE	WIRING COND	DESCRIPTION	CODE	VA OR W ØA	VA OR W ØB	VA OR W ØC	BREAKER POLE	BREAKER A	CKT NO	BUS CONN	CKT NO	BREAKER POLE	BREAKER A	VA OR W ØA	VA OR W ØB	VA OR W ØC	CODE	DESCRIPTION	WIRING COND	WIRING WIRE
SEE PLANS		NW PEDESTALS	RECP				2	100	1	x	2	2	100				RECP	PEDESTAL 1ST GILBO AVE		
			RECP						3	x	4						RECP			
		BATTERY CHARGER #1	POWR				2	40	5		6	2	100				RECP	PEDESTAL 2,3,4 GILBO AVE		
			POWR						7	x	8						RECP			
		SPARE					2		9	x	10	2	40				POWR	BATTERY CHARGER #2		
									11		12						POWR			
									13	x	14									
									15	x	16									
									17		18									
									19	x	20									
									21	x	22									
									23		24									
									25	x	26									
									27	x	28									
									29		30									
									31	x	32									
									33	x	34									
									35		36									
									37	x	38									
									39	x	40									
									41		42									
		TOTAL 1									TOTAL 2									
		TOTAL 2																		
		TOTAL 1 + 2																		

CONN. LOAD TOTAL	
CONN. AMPERES TOTAL	
EST. DEMAND LOAD TOTAL	2000
EST. DEMAND AMPERES TOTAL	8

MAIN BREAKER
FEEDER ENTRANCE TOP/BOTTOM
FEEDER SIZE 200 A SEE ONE-LINE
SOURCE SEE ONE-LINE
PANEL TYPE DOOR-IN-DOOR

MAIN LUGS MLO
ENCLOSURE TYPE NEMA 1
ACCESSORIES * INDICATES GFI BREAKER
** INDICATES LOCK ON DEVICE

BOLD DENOTES NEW CIRCUITS/ WIRING

PANEL No. PANEL 2A

BUS 100A
PANEL RATING EX KAIC
SUPPLY VOLTAGE 208Y/120V
SERVICE 1 PHASE

LOCATION CORNER NEWS
MOUNTING SURFACE
DRAWING No.

WIRING WIRE	WIRING COND	DESCRIPTION	CODE	VA OR W ØA	VA OR W ØB	VA OR W ØC	BREAKER POLE	BREAKER A	CKT NO	BUS CONN	CKT NO	BREAKER POLE	BREAKER A	VA OR W ØA	VA OR W ØB	VA OR W ØC	CODE	DESCRIPTION	WIRING COND	WIRING WIRE
		LIGHTS MAIN ST EAST KD-1,3,7,	LTS				2		1	x	2	2					LTS	**LIGHTS MAIN ST CENTER KD-78,**		
		11,17,19,23 & 29	LTS						3	x	4						LTS	**80,81,82,84,86,88,90 & 92**		
		LIGHTS MAIN ST EAST KD-35,37,39,	LTS				2		5		6	2					LTS	ROW 2 PARKING LOT		
		41,45,49,51,57,59,65 & 71	LTS						7	x	8						LTS			
		ROW 1 PARKING LOT	LTS				2		9		10	2					LTS	ROW 3 PARKING LOT		
			LTS						11	x	12						LTS			
		LIGHT CONTROLS	LTS				1		13	x	14	2					LTS	**LIGHTS GILBO GB-4,6,8,10,12,13,**		
		LIGHTS MAIN ST WEST KD-2,4,8,	LTS				2		15	x	16						LTS	**14 & 15**		
		14,20,24,28,30 & 36	LTS						17		18	2					LTS	**LIGHTS GILBO GB-1,2,3,5,7,9 & 11**		
		LIGHTS MAIN ST WEST KD-6,10,12,	LTS				2		19	x	20						LTS			
		16,18,22,26,32 & 34	LTS						21	x	22	2					LTS	**LIGHTS MAIN ST WEST KD-38,44,**		
		LIGHTS MAIN ST EAST KD-5,9,13,	LTS				2		23		24						LTS	**46,52,54,58,62,68,74 & 76**		
		15,21,27,31 & 33	LTS						25	x	26	2					LTS	**LIGHTS MAIN ST WEST KD-40,42,**		
		LIGHTS MAIN ST EAST KD-43,47,53,	LTS				2		27	x	28						LTS	**48,50,56,60,64,66,70 & 72**		
		55,61,63,67,69,73 & 75	LTS						29		30	2					LTS	**LIGHTS MAIN ST CENTER KD-77,**		
									31	x	32						LTS	**79,83,85,87,89,91,93 & 94**		
									33	x	34									
									35		36									
									37	x	38									
									39	x	40									
									41		42									
		TOTAL 1									TOTAL 2									
		TOTAL 2																		
		TOTAL 1 + 2																		

CONN. LOAD TOTAL	
CONN. AMPERES TOTAL	
EST. DEMAND LOAD TOTAL	2000
EST. DEMAND AMPERES TOTAL	8

MAIN BREAKER
FEEDER ENTRANCE TOP/BOTTOM
FEEDER SIZE 350 A SEE ONE-LINE
SOURCE SEE ONE-LINE
PANEL TYPE DOOR-IN-DOOR

MAIN LUGS N/A
ENCLOSURE TYPE NEMA 1
ACCESSORIES * INDICATES GFI BREAKER

PANEL No. PANEL 2B

BUS
PANEL RATING KAIC
SUPPLY VOLTAGE 208Y/120V
SERVICE 1 PHASE

LOCATION CORNER NEWS
MOUNTING SURFACE
DRAWING No.

WIRING WIRE	WIRING COND	DESCRIPTION	CODE	VA OR W ØA	VA OR W ØB	VA OR W ØC	BREAKER POLE	BREAKER A	CKT NO	BUS CONN	CKT NO	BREAKER POLE	BREAKER A	VA OR W ØA	VA OR W ØB	VA OR W ØC	CODE	DESCRIPTION	WIRING COND	WIRING WIRE
		SPARE					1	60	1	x	2							BLANK		
		SPARE					1	60	3	x	4							BLANK		
		SPARE					1	60	5		6							BLANK		
		SPARE					1	60	7	x	8							BLANK		
		SPARE					1	20	9	x	10	1	20					SPARE		
		SPARE					1	20	11		12	1	20					SPARE		
		NORTH CENTER PEDESTALS	RECP				2	100	13	x	14	2	100				LTS	LIGHTING PANEL		
			RECP						15	x	16						LTS			
		SW & SO CENTER PEDESTALS	RECP				2	100	17		18	2	40					SPARE		
			RECP						19	x	20		//							
		SPARE					2	100	21	x	22	2	40					SPARE		
									23	x	24		//							
									25	x	26									
									27	x	28									
									29		30									
									31	x	32									
									33	x	34									
									35		36									
									37	x	38									
									39	x	40									
									41		42									
		TOTAL 1									TOTAL 2									
		TOTAL 2																		
		TOTAL 1 + 2																		

CONN. LOAD TOTAL	
CONN. AMPERES TOTAL	#DIV/0!
EST. DEMAND LOAD TOTAL	
EST. DEMAND AMPERES TOTAL	#DIV/0!

MAIN BREAKER
FEEDER ENTRANCE TOP/BOTTOM
FEEDER SIZE 350 A SEE ONE-LINE
SOURCE SEE ONE-LINE
PANEL TYPE DOOR-IN-DOOR

MAIN LUGS N/A
ENCLOSURE TYPE NEMA 1
ACCESSORIES * INDICATES GFI BREAKER

0 20' 40'

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KEENE, NEW HAMPSHIRE

Title
LIGHTING SCHEDULES
(SHEET 03 OF 03)

Project No.	Scale
179450806	1"=20'

Revision	Sheet	Drawing No.
0	145 of 232	LT-12

ORIGINAL SHEET - ANSI D

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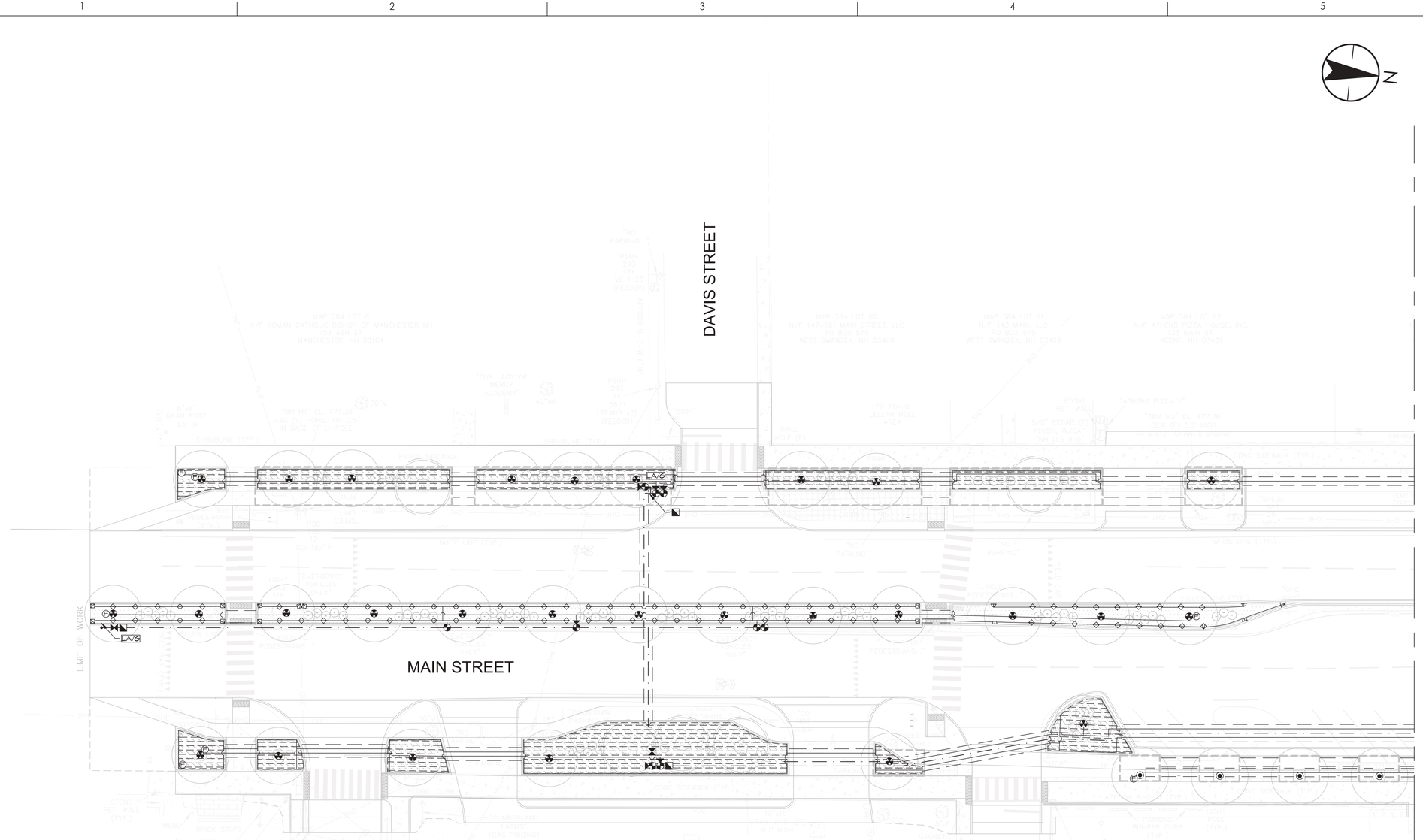

IRRIGATION LEGEND			
SYMBOL	DESCRIPTION		
G H F	50	35'	ROTARY SPRINKLER WITH CHECK VALVE (STANDARD NOZZLES)
	50	25'	
	50	18'	
G H V F	30	15'	6-INCH POP UP SPRAY SPRINKLER WITH CHECK VALVE AND PRESSURE REGULATION
	30	12'	
	30	10'	
	30	8'	
	30	5'	
	30	4'x30'	
	30	4'x15'	
	45	12"x18"	IN-LINE EMITTER DRIP TUBING WITH 0.6 GPH EMITTERS
	40	12"	IN-LINE EMITTER DRIP TUBING (IN 3" AERATION PIPE) WITH 0.9 GPH EMITTER (NOT SHOWN)
	SERVICE BOX WITH GRATED COVER FOR AERATION/DRIP PIPE MAINTENANCE (NOT SHOWN)		

IRRIGATION LEGEND	
SYMBOL	DESCRIPTION
	36" DIAMETER INLINE DRIP TUBING TREE RING (0.9 GPH EMITTERS WITH 12" SPACING). USE WITH 2 GPH DEEP DRIP STAKES. CONNECT STAKE DISTRIBUTION TUBING TO A 2 GPH POINT SOURCE EMITTER AND TO A SELF PIERCING BARBED TRANSFER FITTING (PROVIDE 4 STAKES PER INDIVIDUAL STREET TREE).
	BLANK DRIP TUBE RING PLACED 2-INCHES OFF ROOT BALL. USE WITH 24" DEEP DRIP STAKES. CONNECT STAKE DISTRIBUTION TUBING TO A 2 GPH POINT SOURCE EMITTER AND A SELF PIERCING BARBED TRANSFER FITTING (PROVIDE 3 STAKES PER INDIVIDUAL TREE IN LANDSCAPE).
	HDPE 4710 DR-13.5 LATERAL BUTT FUSED PIPING (SIZE TO BE DETERMINED)
	HDPE 4710 DR-11 MAINLINE BUTT FUSED PIPING (SIZE TO BE DETERMINED)
	LOCATION OF PIPE SLEEVE (SIZE AND MATERIALS TO BE DETERMINED) INSTALL SCH-40 2-INCH PVC WIRE CONDUIT ADJACENT TO MAINLINE PIPE SLEEVES.
	ISOLATION GATE VALVE (MAINLINE SIZE)
	1" QUICK COUPLING VALVE
F	MANUAL FLUSHING VALVE
	1" 24 VOLT ELECTRIC ZONE VALVE WITH DISK FILTER (DRIP)
	24 VOLT ELECTRIC ZONE VALVE (ROTORS AND SPRAYS)

IRRIGATION LEGEND	
SYMBOL	DESCRIPTION
MI	MOISTURE SENSOR (NOT SHOWN)
R	AUTOMATIC WIRELESS RAIN SENSOR (FINAL LOCATION TO BE DETERMINED)
A	AUTOMATIC CONTROLLER IN PEDESTAL (FINAL LOCATION TO BE DETERMINED)
LA/G	LIGHTING SURGE WITH GROUND (FINAL LOCATIONS TO BE DETERMINED)
	MASTER VALVE AND FLOW METER (FINAL LOCATION TO BE DETERMINED)
M	IRRIGATION WATER METER (FINAL LOCATION TO BE DETERMINED)
BF	BACK FLOW PREVENTION DEVICE IN ENCLOSURE (FINAL LOCATION TO BE DETERMINED)

0 20' 40'

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Notes

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File Name: 50806_IRRIGATION PLAN — JGD Dwn. — JGD Dsgn. — JRB Chkd. — 2024.12.16 YYYY-MM-DD

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KEENE, NEW HAMPSHIRE

Title
IRRIGATION PLAN (SHEET 01 OF 06)

Project No. 179450806 — Scale 1"=20'

Revision 0 — Sheet 154of 232 — Drawing No. **IRR-01**

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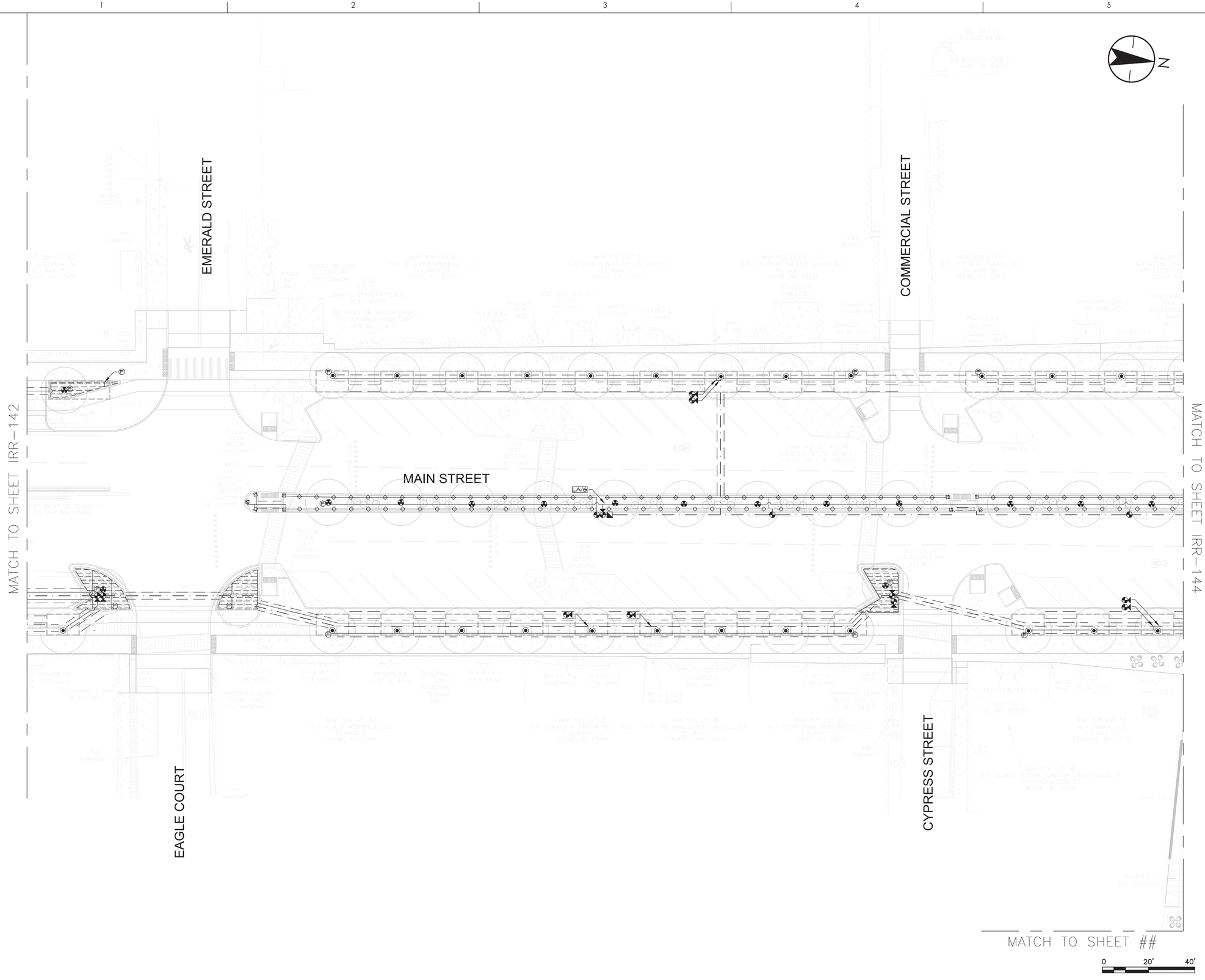

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Issued	By	Appd	YYYY-MM-DD
File Name: 50806_IRRIGATION PLAN	JGD Dwn.	JGD Dsgn.	JRB Chkd. 2024.12.16 YYYY-MM-DD

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KEENE DOWNTOWN IMPROVEMENTS

KEENE, NEW HAMPSHIRE

Title
IRRIGATION PLAN (SHEET 02 OF 06)

Project No.	Scale
179450806	1"=20'
Revision: 0	Sheet: 155of 232
Drawing No.	**IRR-02**

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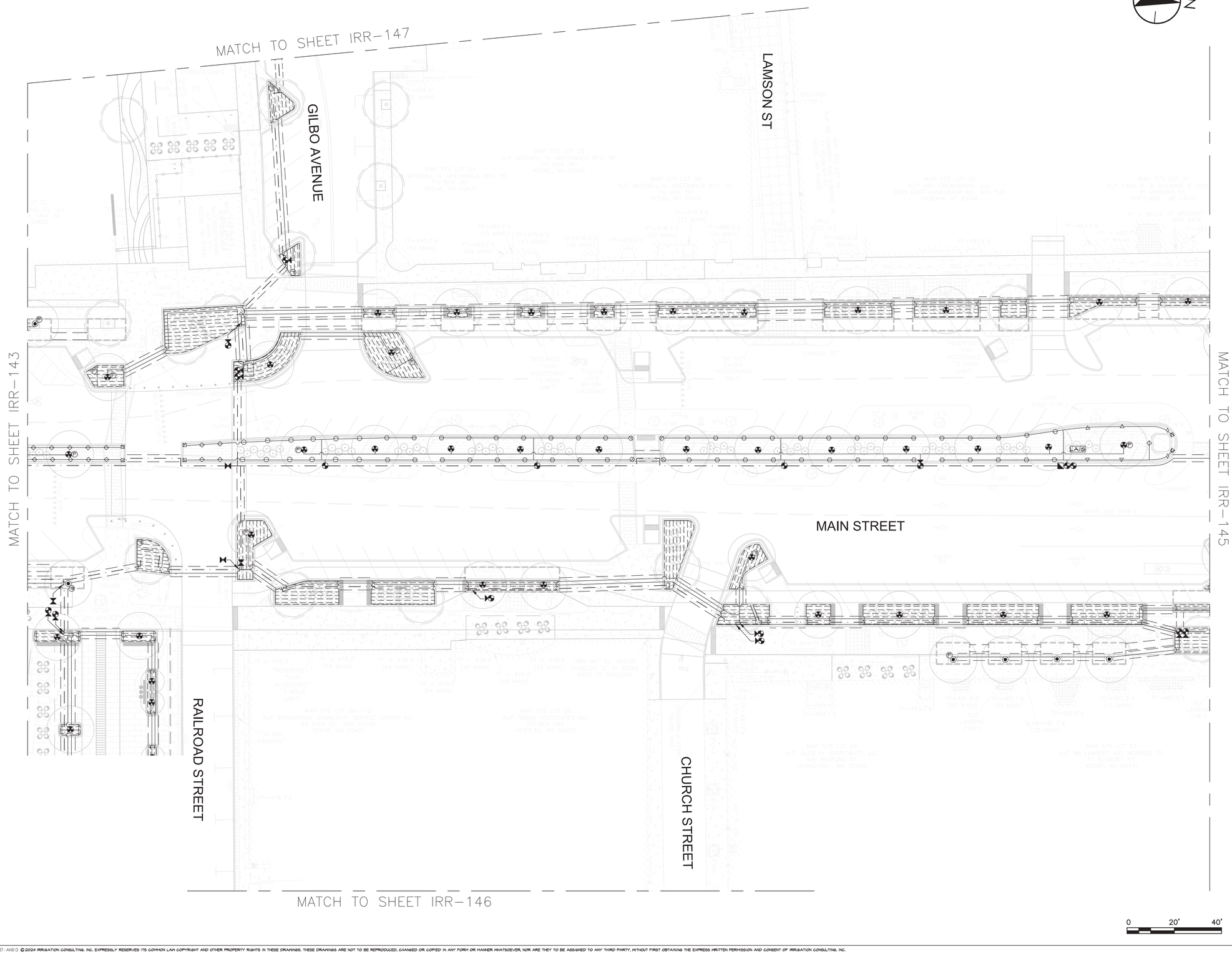

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Revision	By	Appd	YYYY-MM-DD

Issued	By	Appd	YYYY-MM-DD

File Name: 50806_IRRIGATION PLAN	JGD	JGD	JRB	2024.12.16
	Dwn.	Dsgn.	Chkd.	YYYY-MM-DD

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Client/Project
CITY OF KEENE

KEENE DOWNTOWN IMPROVEMENTS

KEENE, NEW HAMPSHIRE

Title
IRRIGATION PLAN (SHEET 03 OF 06)

Project No.	Scale
179450806	1"=20'

Revision	Sheet	Drawing No.
0	156of 232	IRR-03

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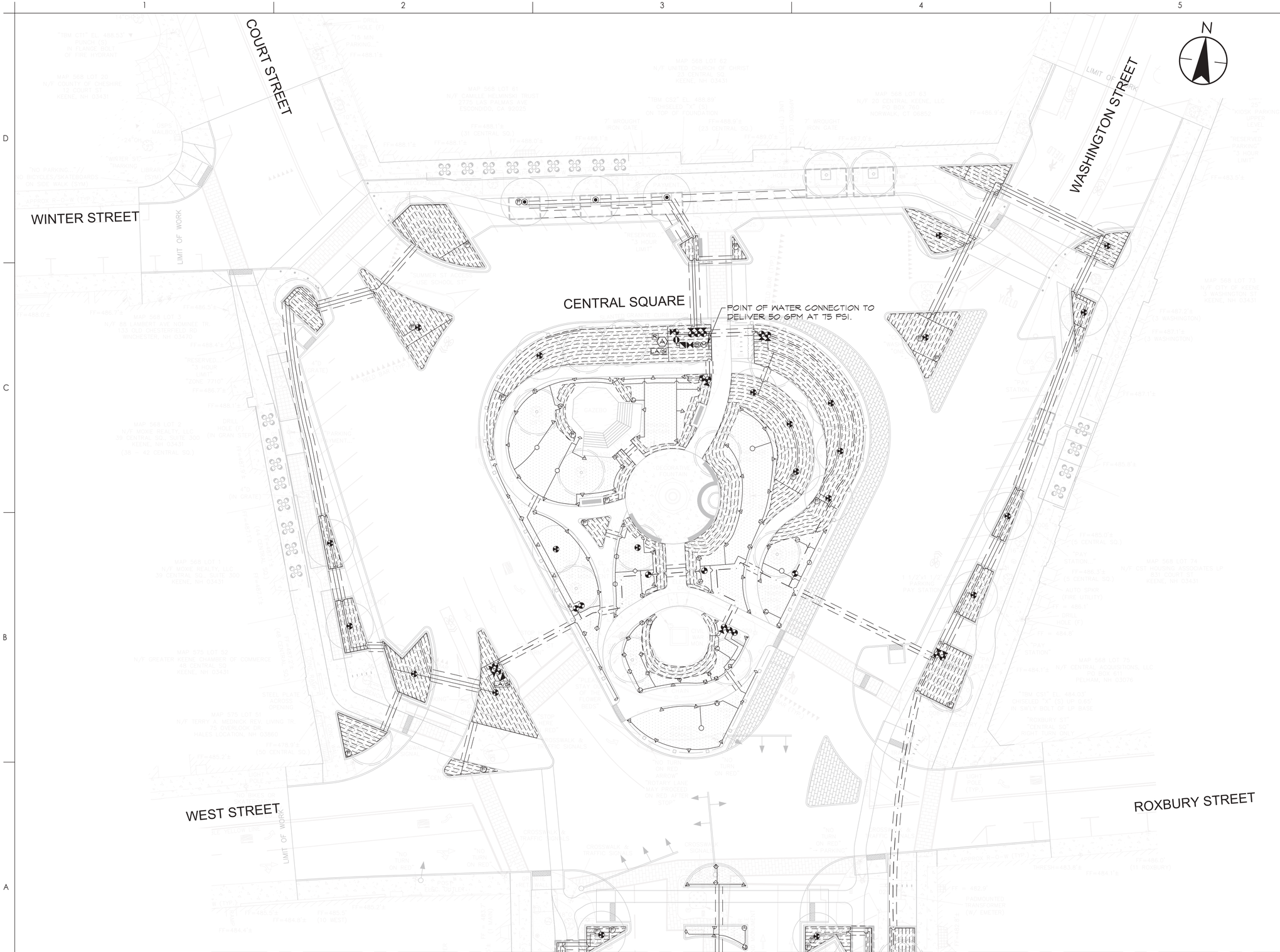

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Revision	By	Appd	YYYY-MM-DD

Issued	By	Appd	YYYY-MM-DD
File Name: 50806_IRRIGATION PLAN	JGD Dwn.	JGD Dsgn.	JRB Chkd.	2024.12.16 YYYY-MM-DD

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KEENE, NEW HAMPSHIRE

Title
IRRIGATION PLAN (SHEET 04 OF 06)

Project No.	Scale
179450806	1"=20'
Revision: 0	Sheet: 157of 232
	Drawing No.: **IRR-04**

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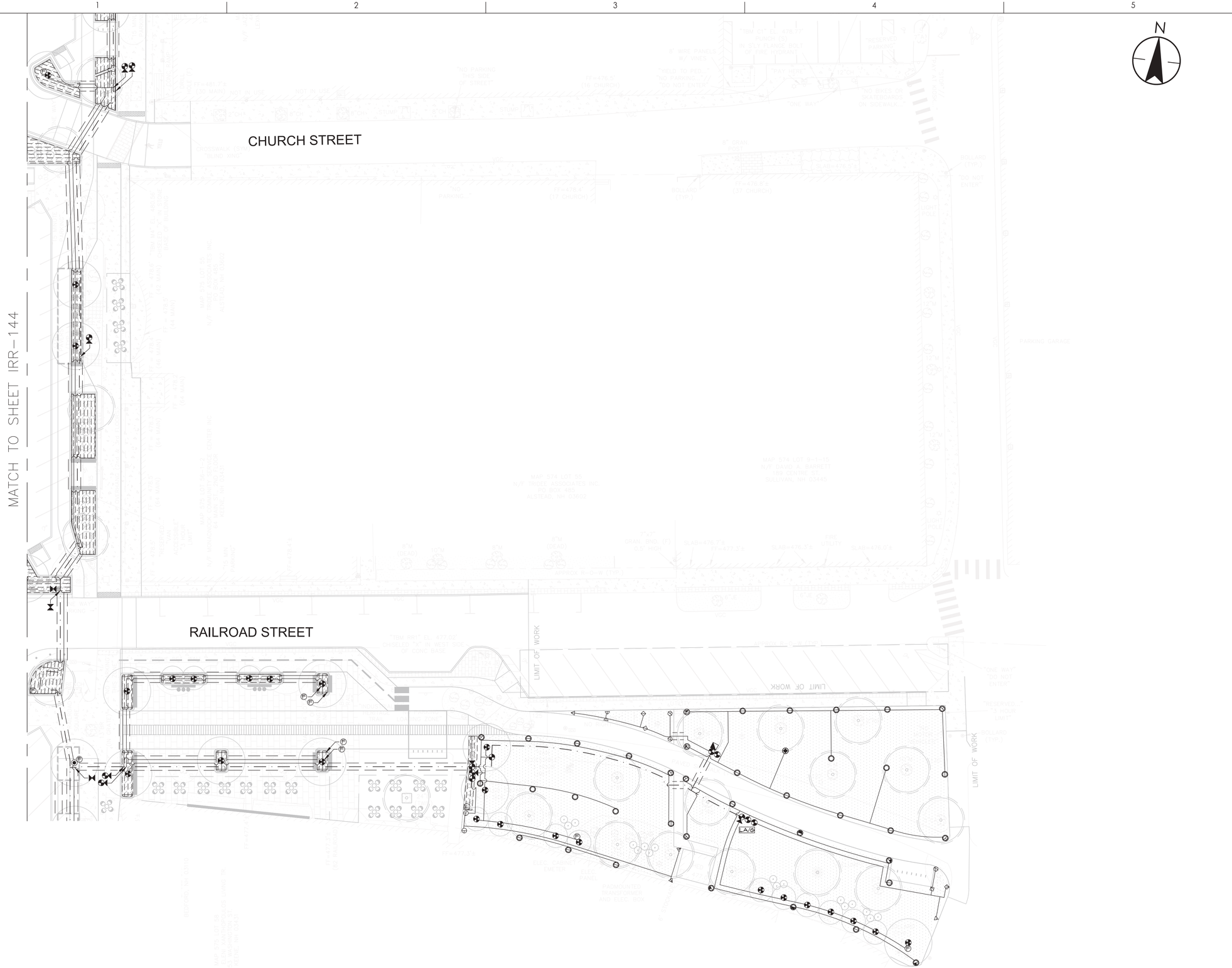

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Issued	By	Appd	YYYY-MM-DD

File Name: 50806_IRRIGATION PLAN	JGD	JGD	JRB	2024.12.16
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Title
IRRIGATION PLAN (SHEET 05 OF 06)

Project No.	Scale
179450806	1"=20'

Revision	Sheet	Drawing No.
0	158of 232	**IRR-05**

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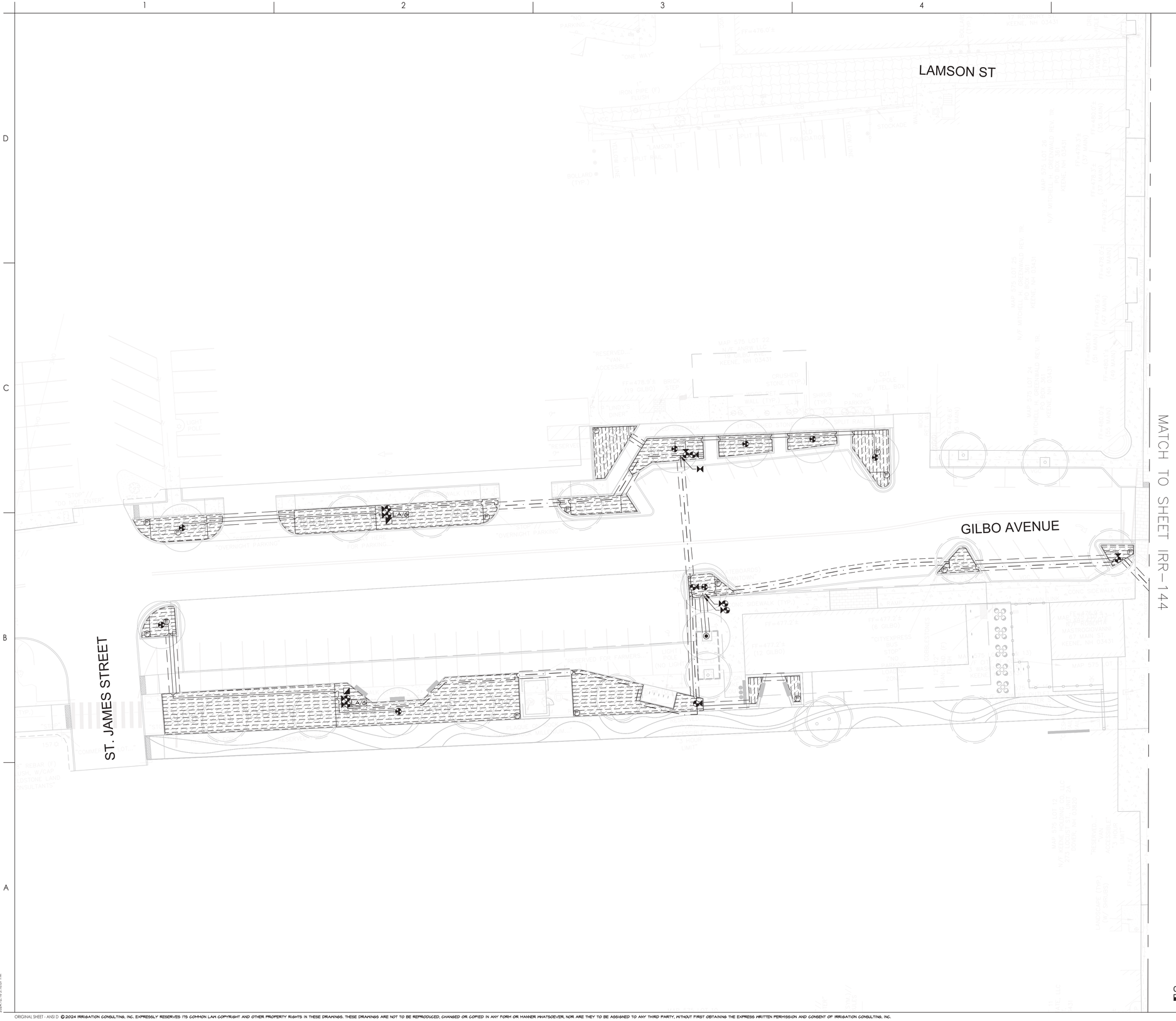

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File Name: 50806_IRRIGATION PLAN	JGD Dwn.	JGD Dsgn.	JRB Chkd.	2024.12.16 YYYY-MM-DD

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Title
IRRIGATION PLAN (SHEET 06 OF 06)

Project No.	Scale
179450806	1"=20'

Revision	Sheet	Drawing No.
0	159of 232	IRR-06

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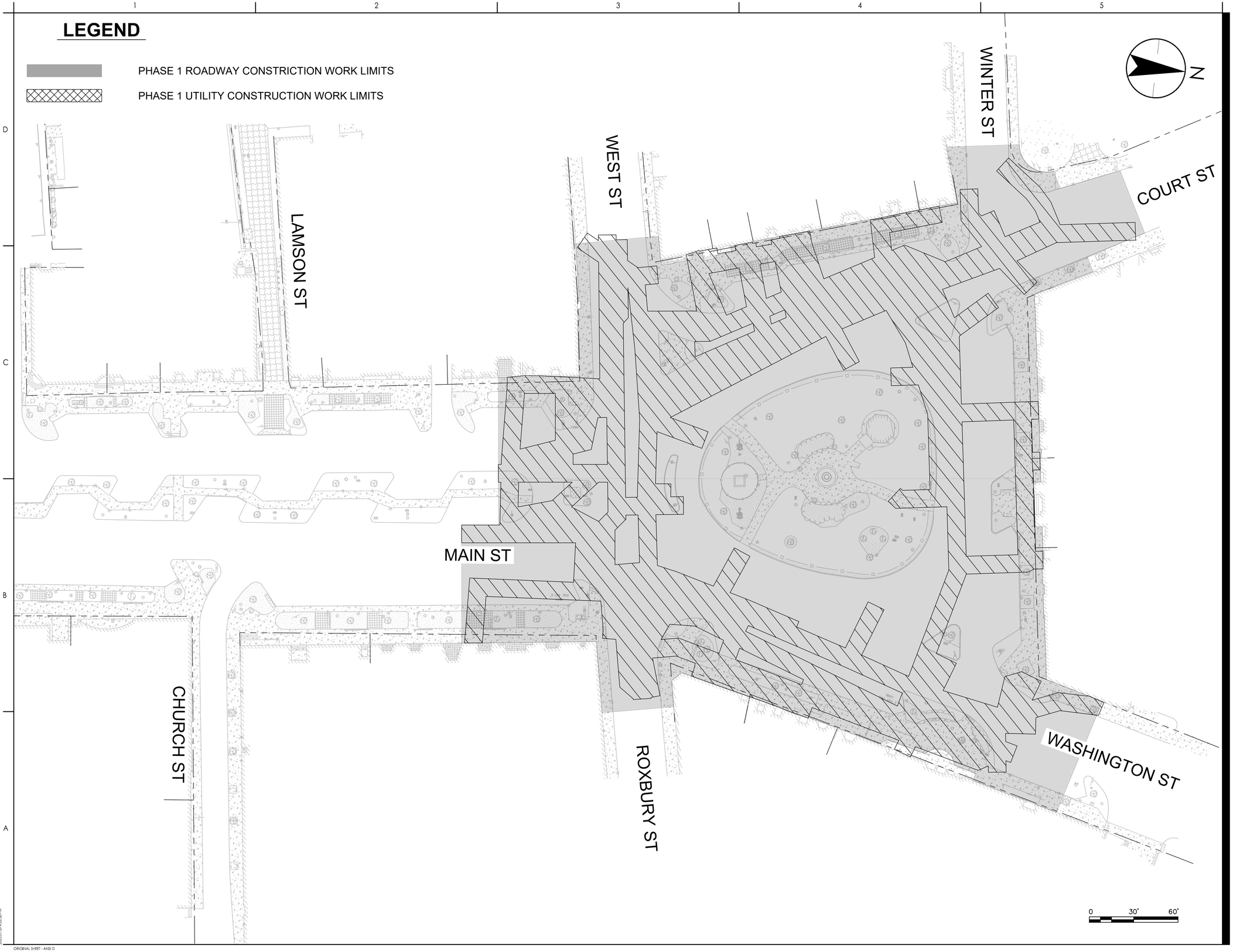
LEGEND

PHASE 1 ROADWAY CONSTRICTION WORK LIMITS

PHASE 1 UTILITY CONSTRUCTION WORK LIMITS



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Issued	By	Appd	YYYY-MM-DD

File Name: 50806_PHASE_PLAN	TJG	TJG	DEM	2025-01-30
	Dwn.	Dsgn.	Chkd.	YYYY-MM-DD

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KEENE, NEW HAMPSHIRE

Title
CONSTRUCTION PHASING PLAN
(SHEET 01 OF 03)

Project No.	Scale
179450806	1" = 20'

Revision	Sheet	Drawing No.
-	160 of 232	PH-01

ORIGINAL SHEET - ANSI D

LEGEND

PHASE 2 ROADWAY CONSTRICTION WORK LIMITS

PHASE 2 UTILITY CONSTRUCTION WORK LIMITS

GILBO AVE

COMMERCIAL ST

LAMSON ST

WEST ST

MAIN ST

CYPRESS ST

RAILROAD ST

CHURCH ST

N

0 30' 60'

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KEENE, NEW HAMPSHIRE

Title
CONSTRUCTION PHASING PLAN (SHEET 02 OF 03)

Project No.
179450806

Scale
1" = 30'

Revision
-

Sheet
161 of 232

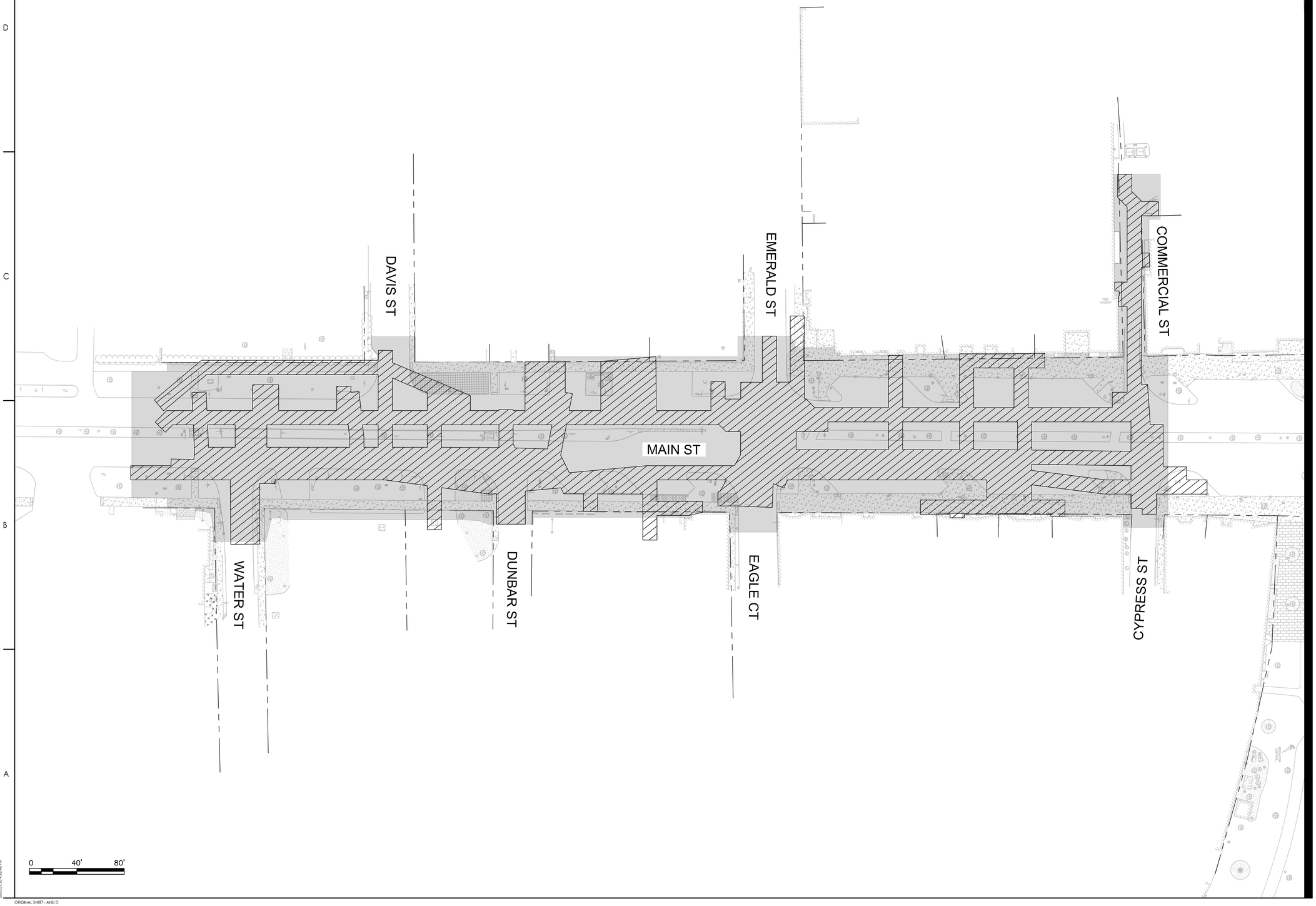
Drawing No.
PH-02

ORIGINAL SHEET - ANSI D

LEGEND

PHASE 3 ROADWAY CONSTRICTION WORK LIMITS

PHASE 3 UTILITY CONSTRUCTION WORK LIMITS



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Title

CONSTRUCTION PHASING PLAN (SHEET 03 OF 03)

Project No.	Scale
179450806	1" = 40'

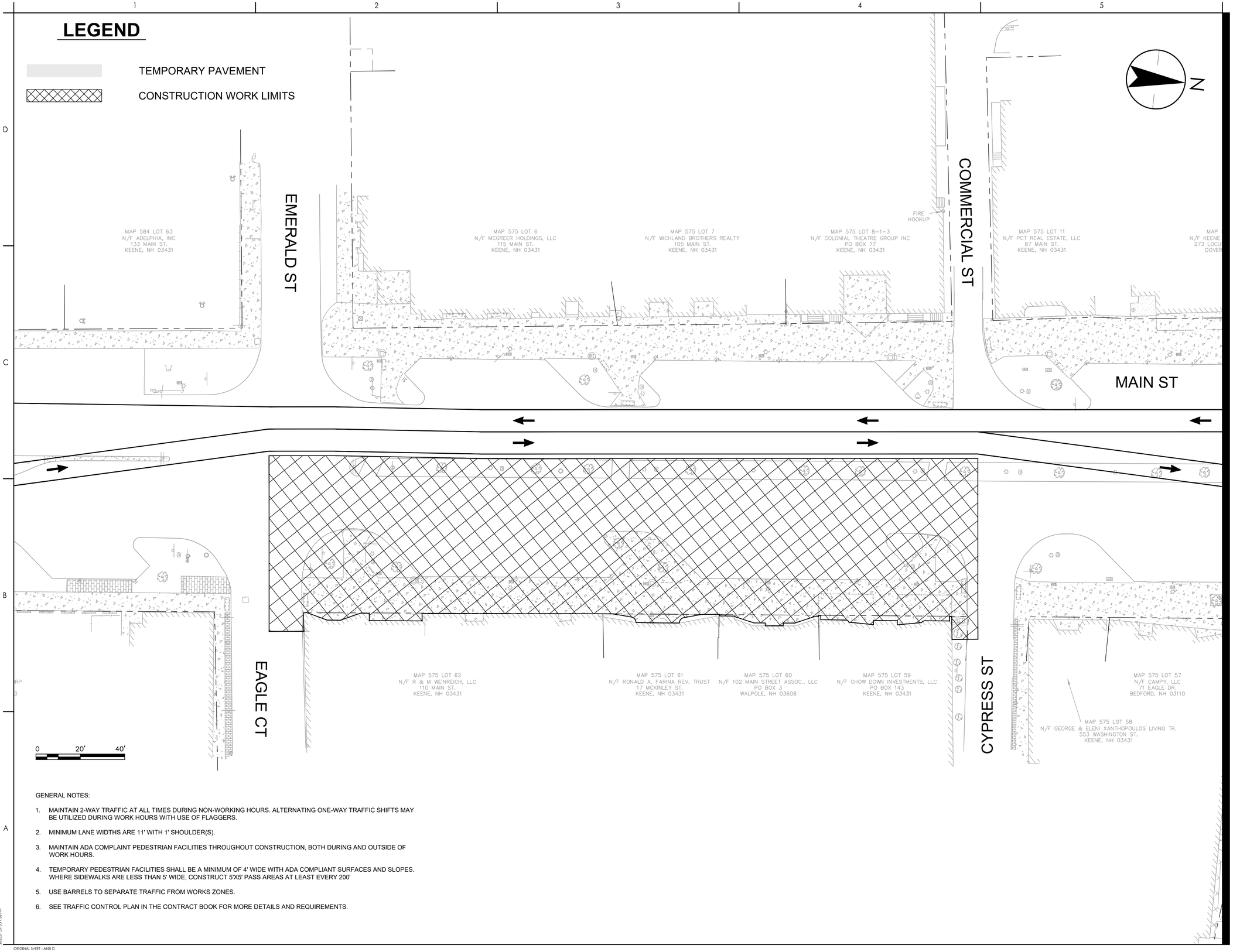
Revision	Sheet	Drawing No.
-	162 of 232	PH-03

ORIGINAL SHEET - ANSI D

LEGEND

TEMPORARY PAVEMENT

CONSTRUCTION WORK LIMITS



GENERAL NOTES:

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2. MINIMUM LANE WIDTHS ARE 11' WITH 1' SHOULDER(S).
3. MAINTAIN ADA COMPLAINT PEDESTRIAN FACILITIES THROUGHOUT CONSTRUCTION, BOTH DURING AND OUTSIDE OF WORK HOURS.
4. TEMPORARY PEDESTRIAN FACILITIES SHALL BE A MINIMUM OF 4' WIDE WITH ADA COMPLIANT SURFACES AND SLOPES. WHERE SIDEWALKS ARE LESS THAN 5' WIDE, CONSTRUCT 5'X5' PASS AREAS AT LEAST EVERY 200'
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6. SEE TRAFFIC CONTROL PLAN IN THE CONTRACT BOOK FOR MORE DETAILS AND REQUIREMENTS.

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KEENE, NEW HAMPSHIRE

Title
TRAFFIC CONTROL PLAN - MAIN STREET (SHEET 01 OF 03)

Project No.	Scale
179450806	1" = 20'

Revision	Sheet	Drawing No.
-	167 of 232	**TCP-01**

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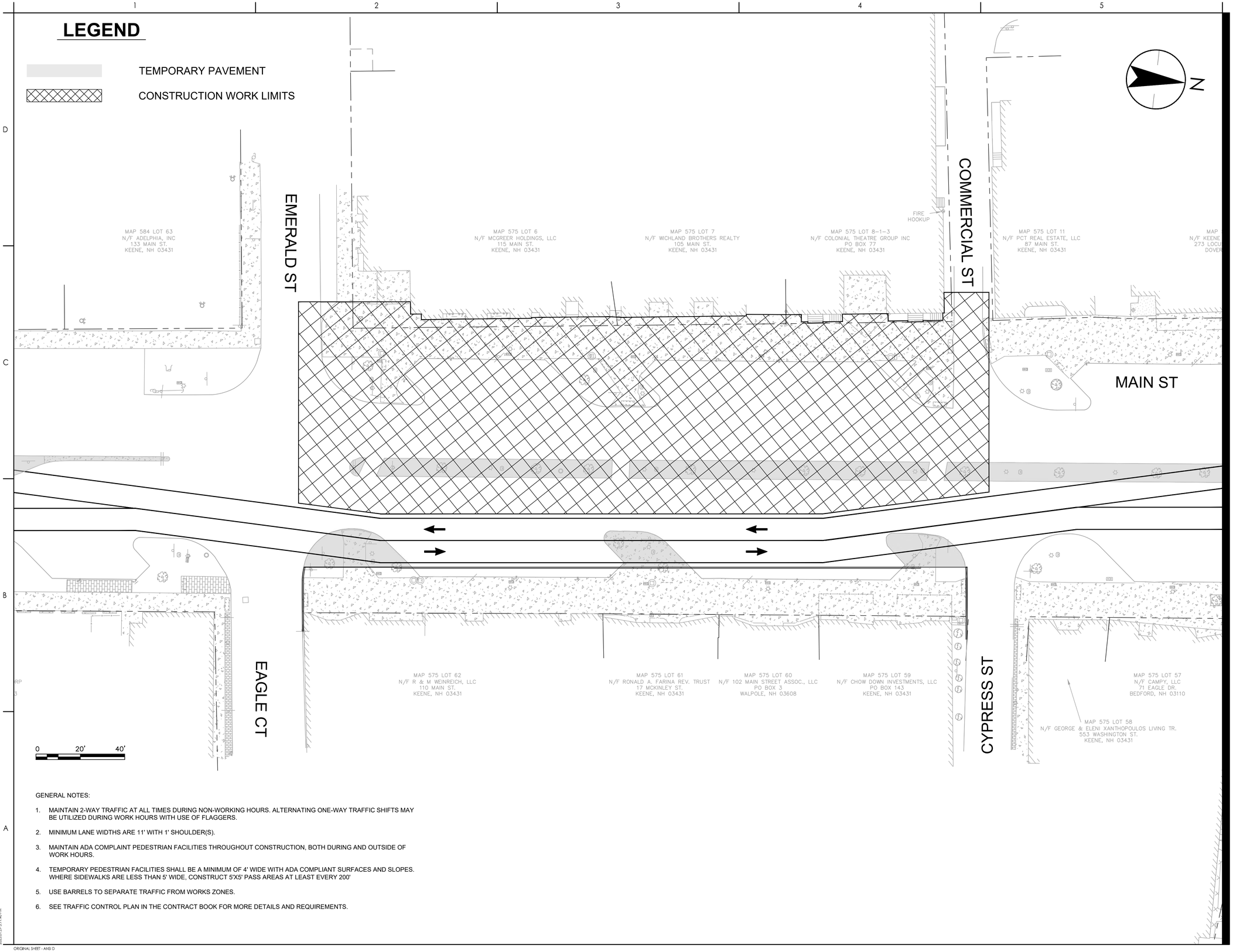

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Title
TRAFFIC CONTROL PLAN - MAIN STREET (SHEET 02 OF 03)

Project No.	Scale
179450806	1" = 20'

Revision	Sheet	Drawing No.
-	168 of 232	TCP-02

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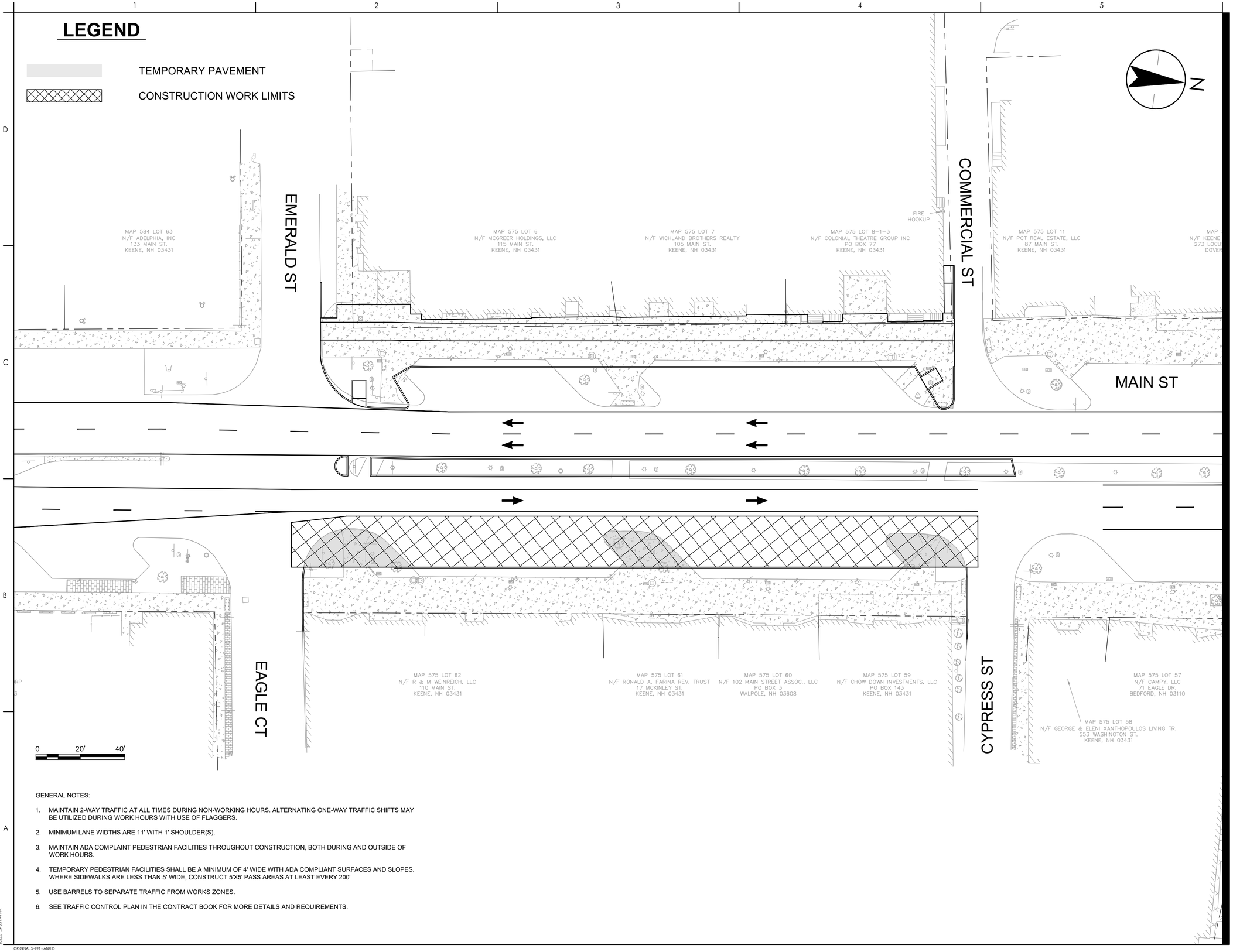
LEGEND

TEMPORARY PAVEMENT

CONSTRUCTION WORK LIMITS



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Title
TRAFFIC CONTROL PLAN - MAIN STREET (SHEET 03 OF 03)

Project No.	Scale
179450806	1" = 20'

Revision	Sheet	Drawing No.
-	169 of 232	TCP-03

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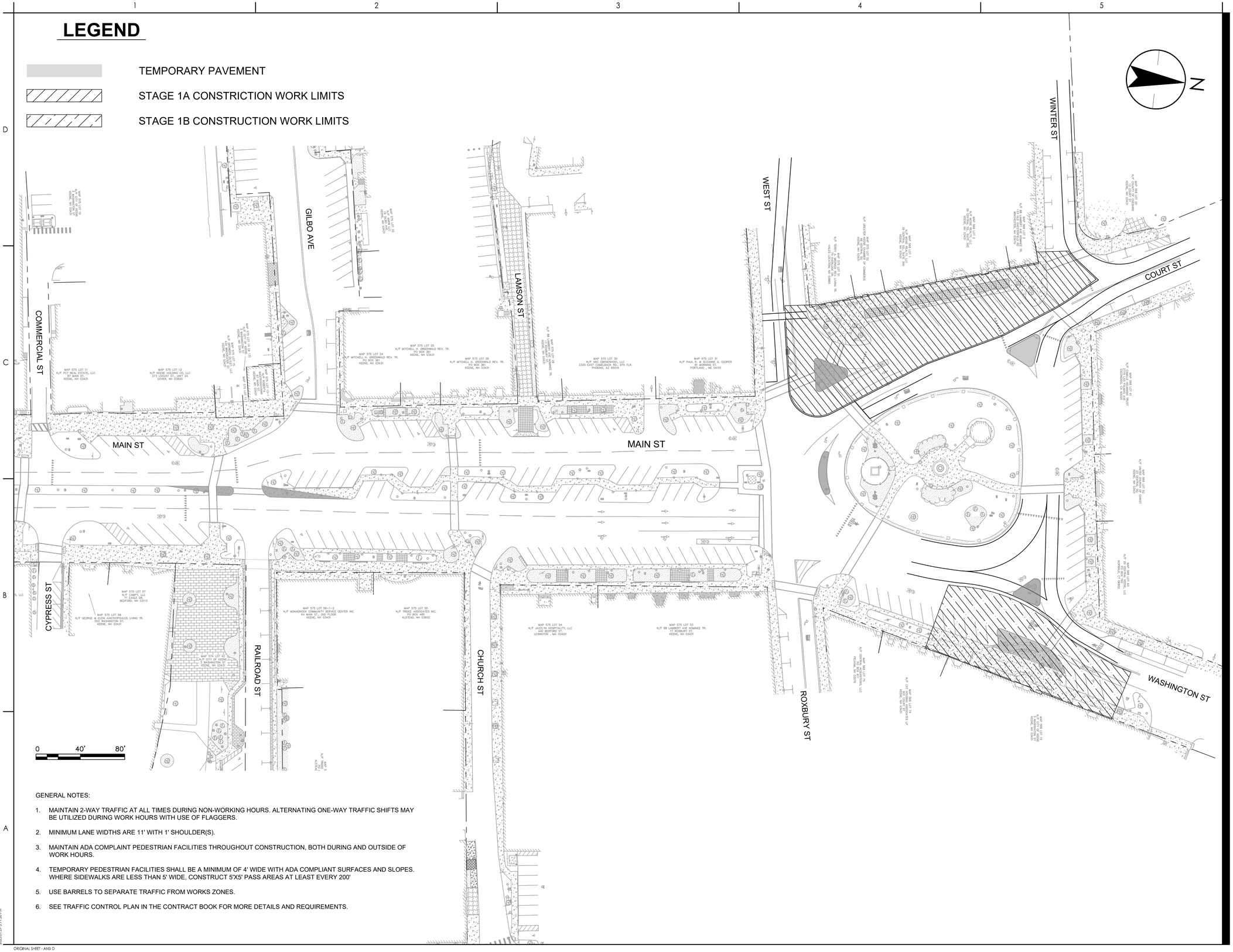
LEGEND

TEMPORARY PAVEMENT

STAGE 1A CONSTRICTION WORK LIMITS

STAGE 1B CONSTRUCTION WORK LIMITS



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Title
TRAFFIC CONTROL PLAN - CENTRAL SQUARE (SHEET 01 OF 07)

Project No.	Scale
179450806	1" = 20'

Revision	Sheet	Drawing No.
-	170 of 232	TCP-04

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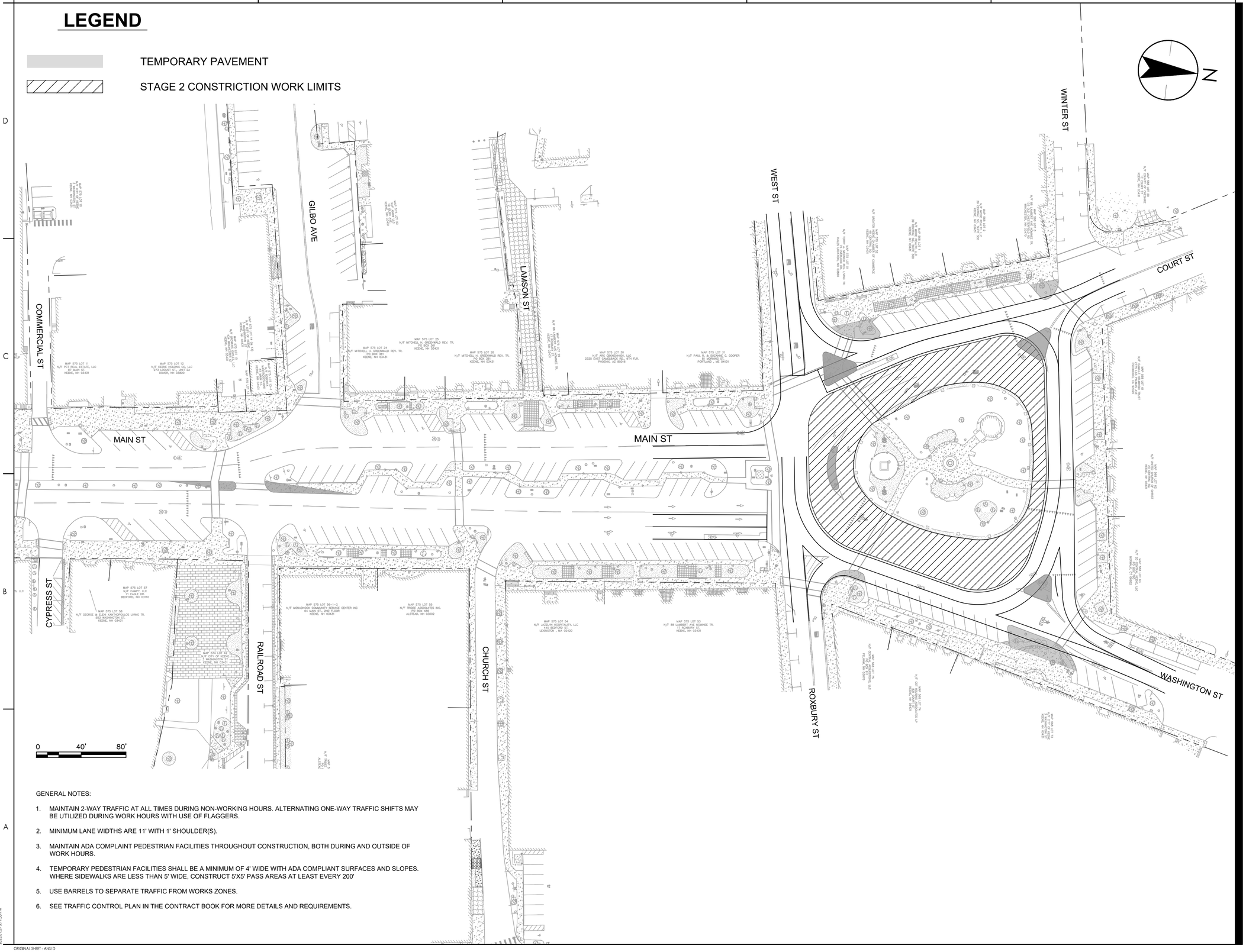
LEGEND

TEMPORARY PAVEMENT

STAGE 2 CONSTRICTION WORK LIMITS



GENERAL NOTES:

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3. MAINTAIN ADA COMPLAINT PEDESTRIAN FACILITIES THROUGHOUT CONSTRUCTION, BOTH DURING AND OUTSIDE OF WORK HOURS.
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5. USE BARRELS TO SEPARATE TRAFFIC FROM WORKS ZONES.
6. SEE TRAFFIC CONTROL PLAN IN THE CONTRACT BOOK FOR MORE DETAILS AND REQUIREMENTS.

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Issued	By	Appd	YYYY-MM-DD
File Name: 50806_TCP_CS	TJG Dwn.	TJG Dsgn.	DEM Chkd.	2025-01-29 YYYY-MM-DD

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KEENE DOWNTOWN IMPROVEMENTS

KEENE, NEW HAMPSHIRE

Title
TRAFFIC CONTROL PLAN - CENTRAL SQUARE (SHEET 02 OF 07)

Project No.	Scale
179450806	1" = 20'

Revision	Sheet	Drawing No.
-	171 of 232	TCP-05

u:\179450806\transportation\drawing\cad\50806_TCP_CS 2025-01-29 3:11:55 PM

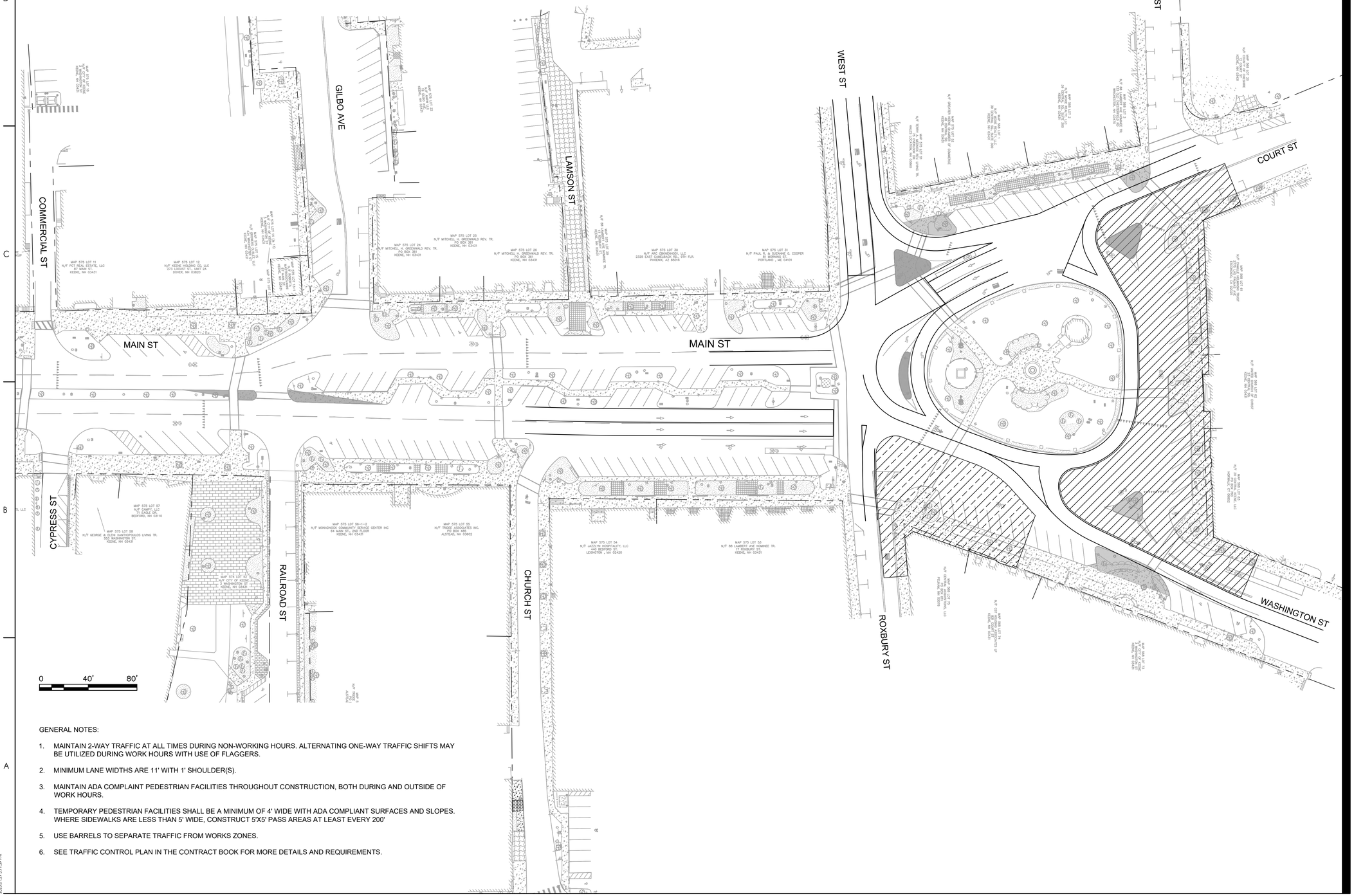
ORIGINAL SHEET - ANSI D

LEGEND

TEMPORARY PAVEMENT

STAGE 3A CONSTRICTION WORK LIMITS

STAGE 3B CONSTRUCTION WORK LIMITS



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Issued	By	Appd	YYYY-MM-DD

File Name: 50806_TCP_CS	TJG	TJG	DEM	2025-01-29
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Title

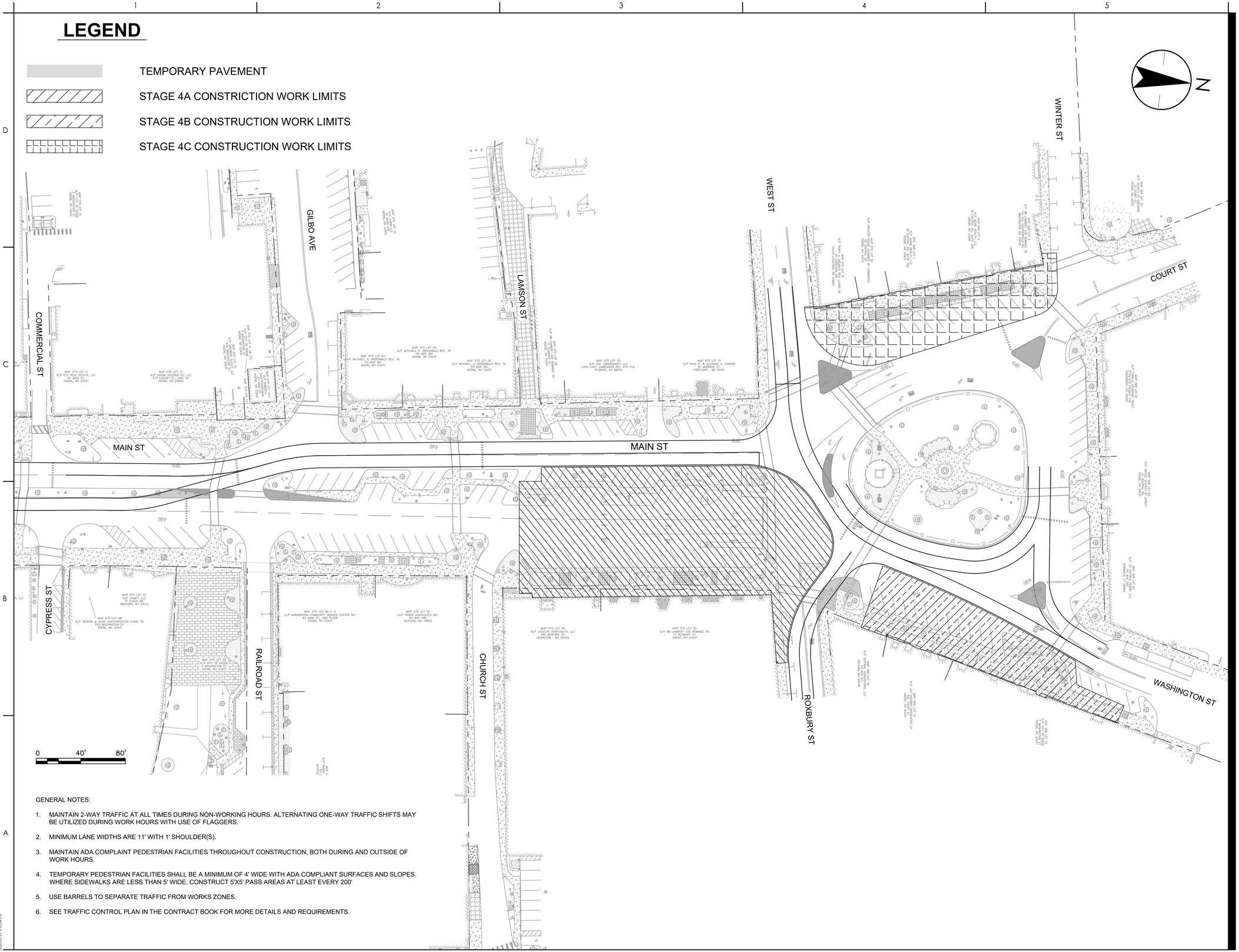
TRAFFIC CONTROL PLAN - CENTRAL SQUARE (SHEET 03 OF 07)

Project No.	Scale
179450806	1" = 20'

Revision	Sheet	Drawing No.
-	172 of 232	TCP-06

LEGEND

- TEMPORARY PAVEMENT
- STAGE 4A CONSTRICTION WORK LIMITS
- STAGE 4B CONSTRUCTION WORK LIMITS
- STAGE 4C CONSTRUCTION WORK LIMITS



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Title
TRAFFIC CONTROL PLAN - CENTRAL SQUARE (SHEET 04 OF 07)

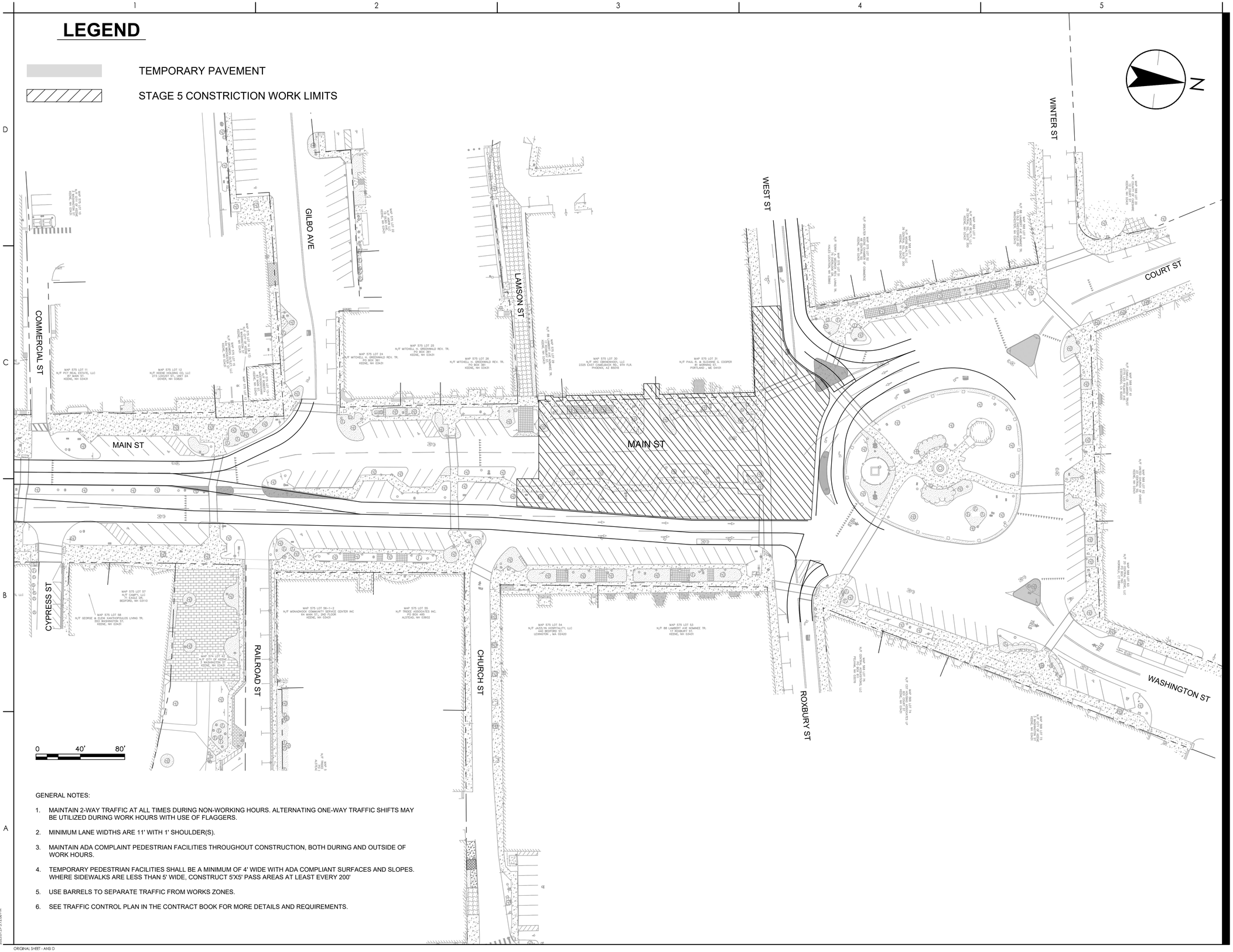
Project No.	Scale
179450806	1" = 20'

Revision	Sheet	Drawing No.
-	173 of 232	TCP-07

LEGEND

TEMPORARY PAVEMENT

STAGE 5 CONSTRICTION WORK LIMITS



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Title
TRAFFIC CONTROL PLAN - CENTRAL SQUARE (SHEET 05 OF 07)

Project No.	Scale
179450806	1" = 20'

Revision	Sheet	Drawing No.
-	174 of 232	TCP-08

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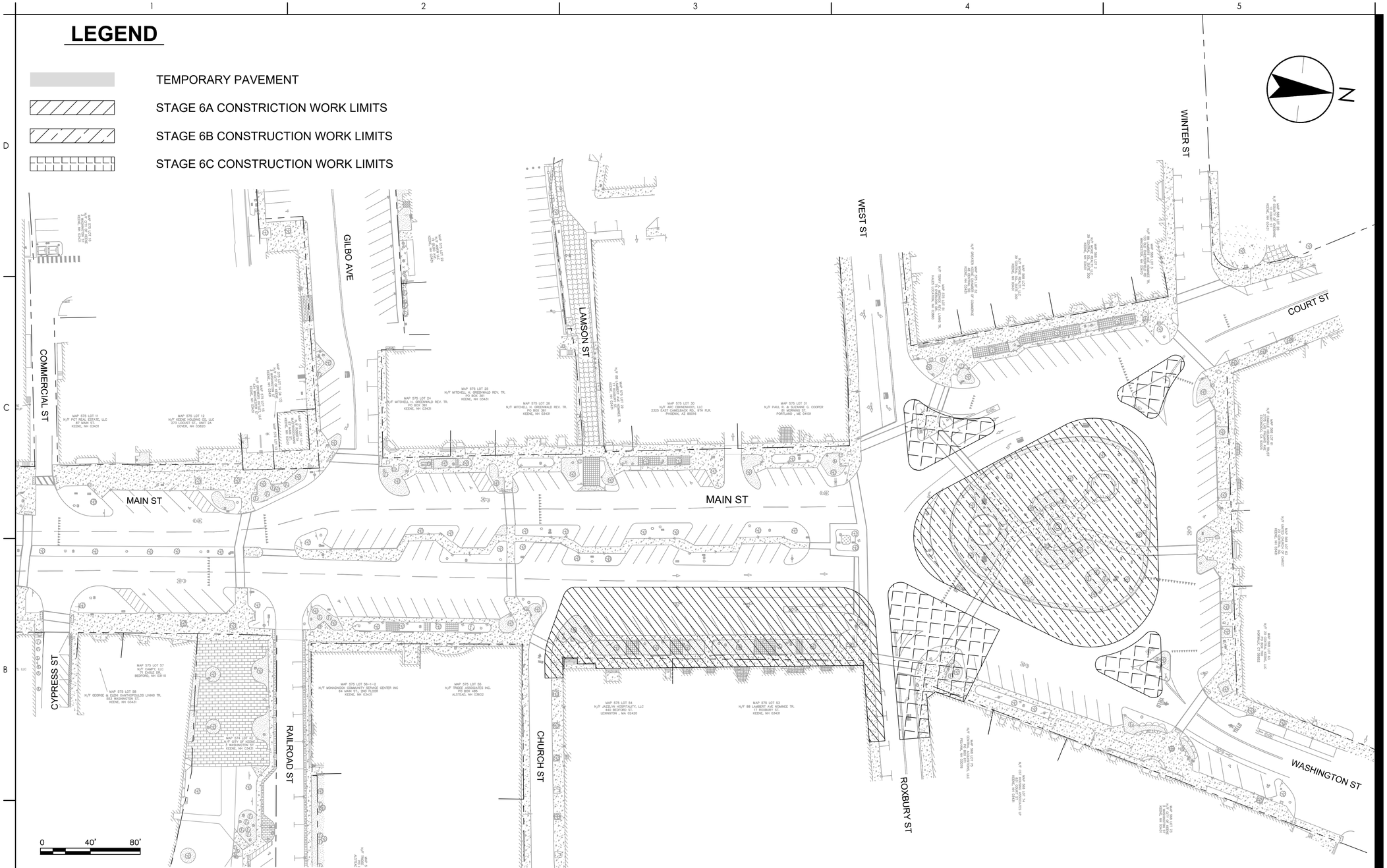
2025.01.29 3:12:08 PM

ORIGINAL SHEET - ANSI D

LEGEND

- TEMPORARY PAVEMENT
- STAGE 6A CONSTRICTION WORK LIMITS
- STAGE 6B CONSTRUCTION WORK LIMITS
- STAGE 6C CONSTRUCTION WORK LIMITS



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Title
TRAFFIC CONTROL PLAN - CENTRAL SQUARE (SHEET 06 OF 07)

Project No.	Scale
179450806	1" = 20'

Revision	Sheet	Drawing No.
-	175 of 232	TCP-09

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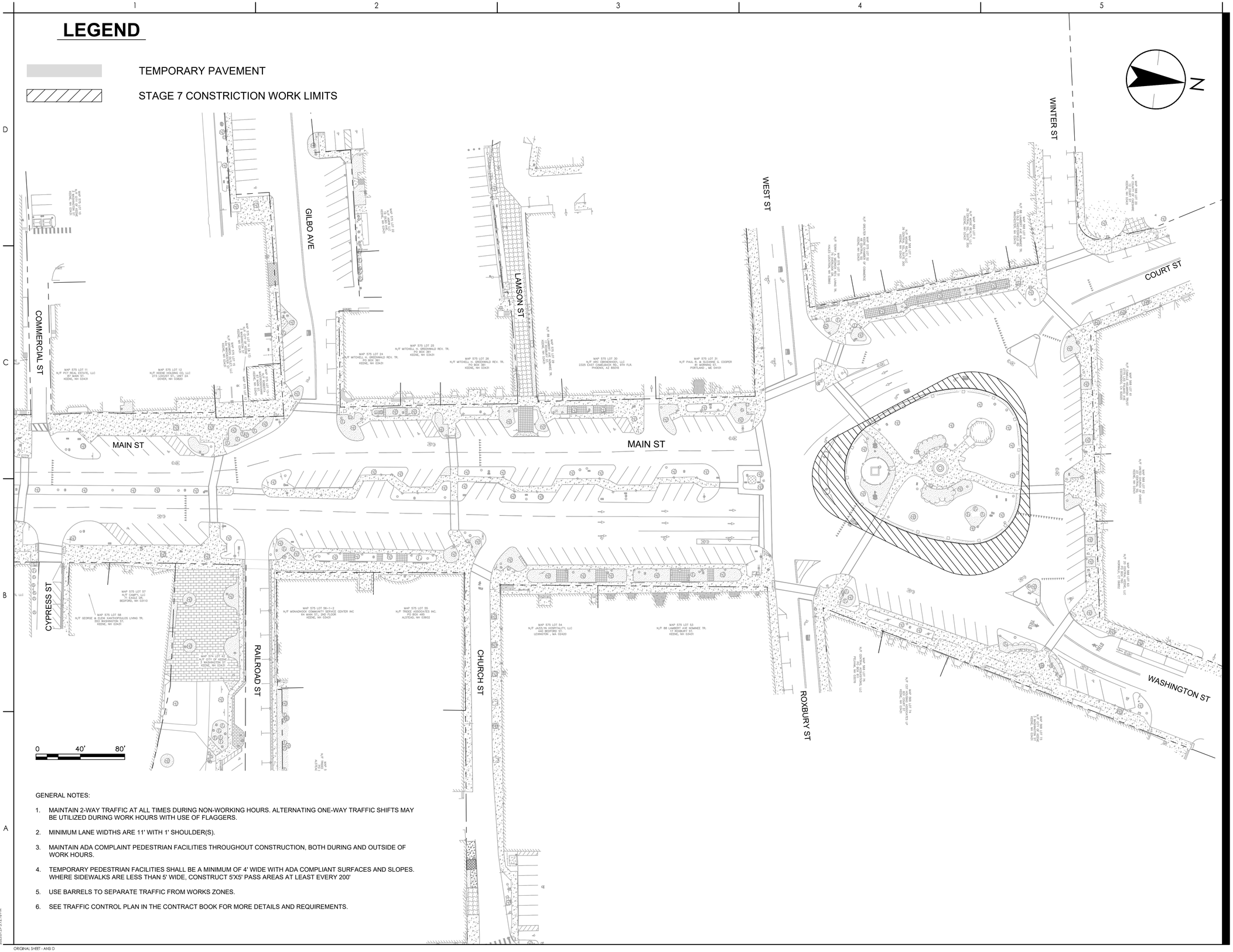
ORIGINAL SHEET - ANSI D

LEGEND

TEMPORARY PAVEMENT

STAGE 7 CONSTRICTION WORK LIMITS



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KEENE, NEW HAMPSHIRE

Title

TRAFFIC CONTROL PLAN - CENTRAL SQUARE (SHEET 07 OF 07)

Project No.	Scale
179450806	1" = 20'
Revision: -	Sheet: 176 of 232
Drawing No.	

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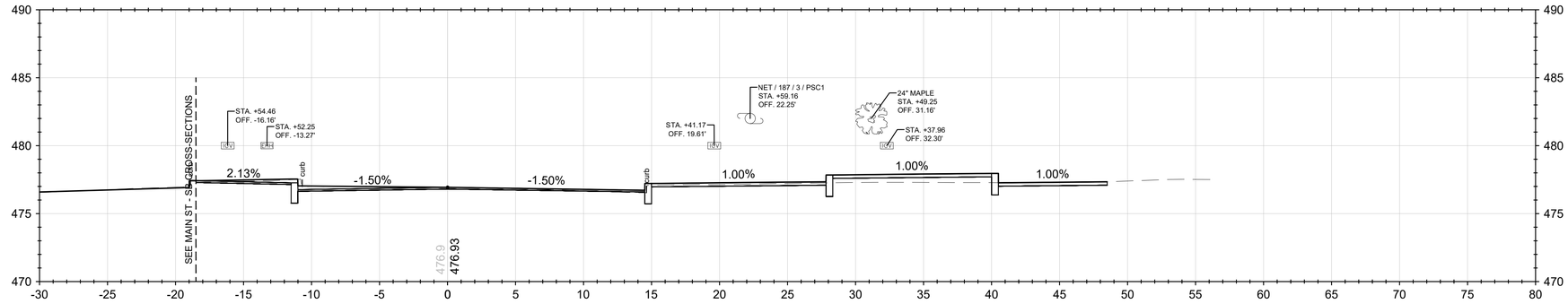
ORIGINAL SHEET - ANSI D



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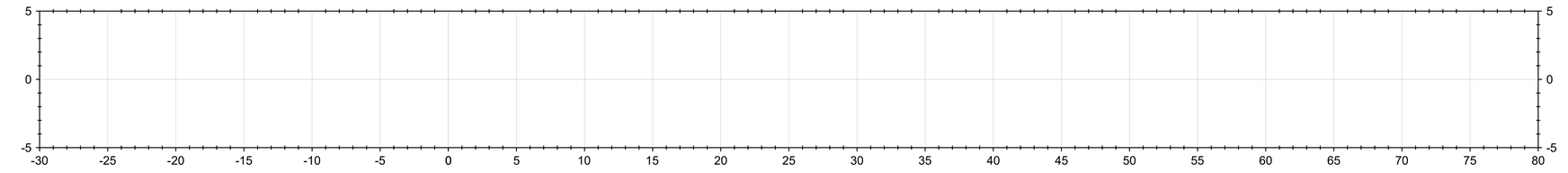

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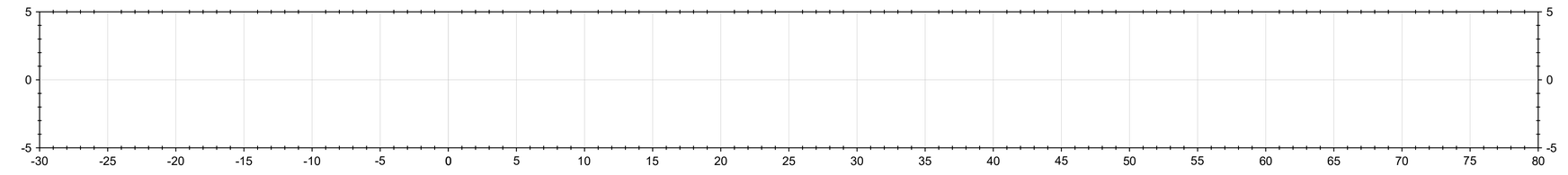

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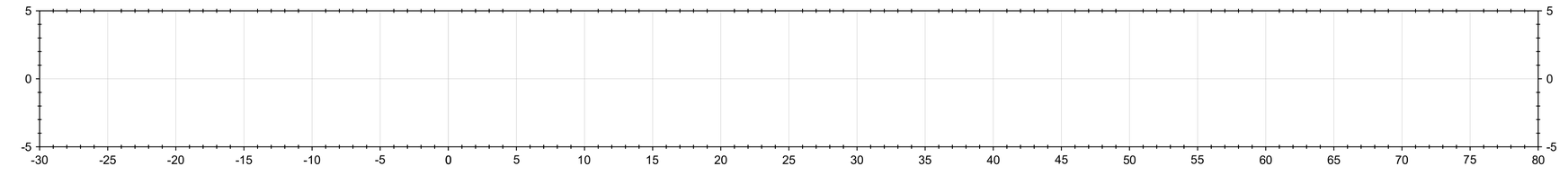

MAIN STREET - NORTHBOUND
2000+00.00

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Issued	By	Appd	YYYY-MM-DD
File Name: 50806_XS - MAIN ST N - 01	TJG	TJG	DEM	2025-01-28
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KEENE, NEW HAMPSHIRE

Title
ROADWAY CROSS-SECTIONS
MAIN STREET - NORTHBOUND

Project No.	Scale
179450806	1" = 5

Revision	Sheet	Drawing No.
-	177 of 232	XS-01

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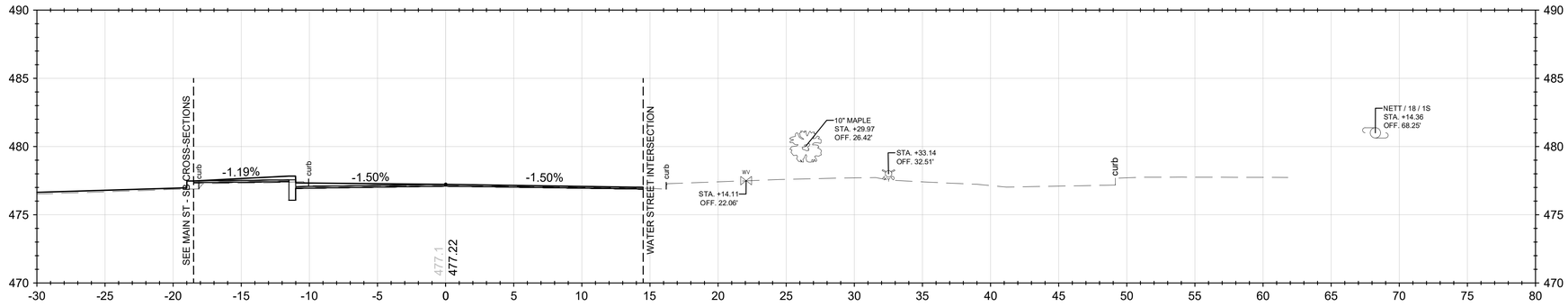

MAIN STREET - NORTHBOUND
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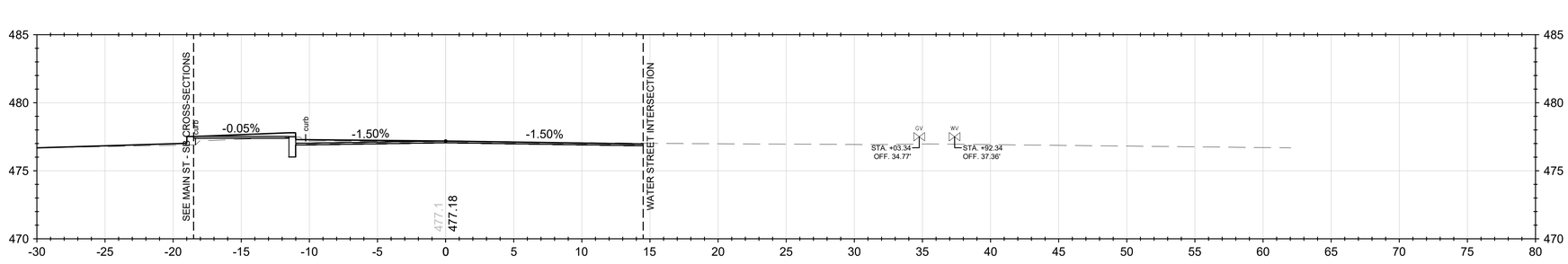

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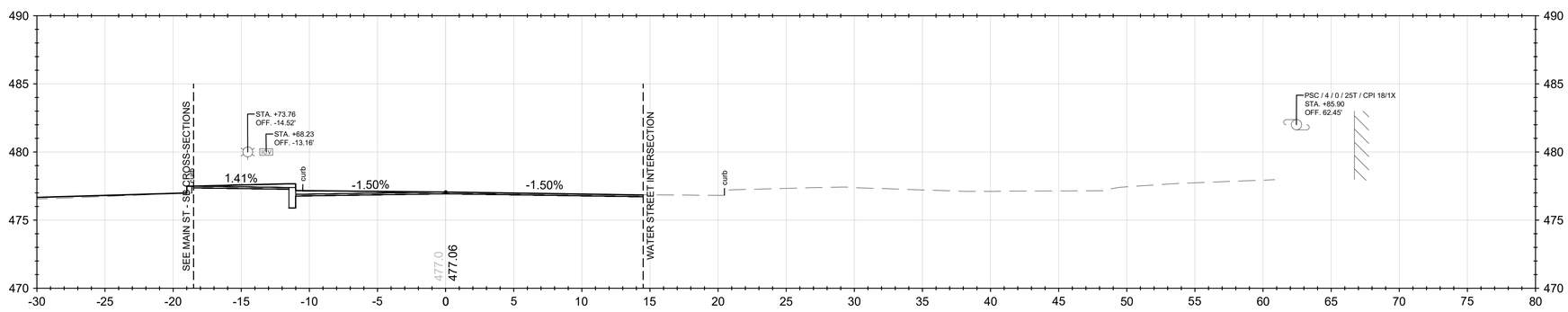

MAIN STREET - NORTHBOUND
2000+75.00

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KEENE, NEW HAMPSHIRE

Title
ROADWAY CROSS-SECTIONS
MAIN STREET - NORTHBOUND

Project No.	Scale
179450806	1" = 5

Revision	Sheet	Drawing No.
-	178 of 232	XS-02

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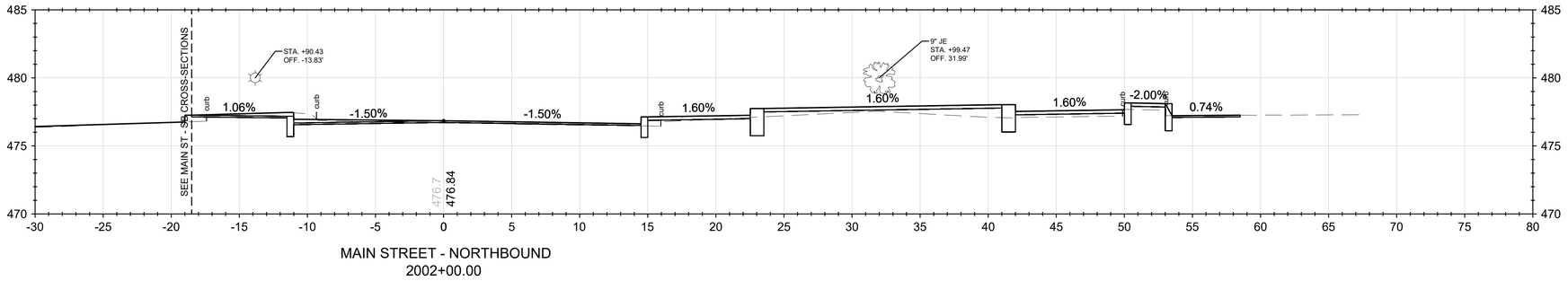

MAIN STREET - NORTHBOUND
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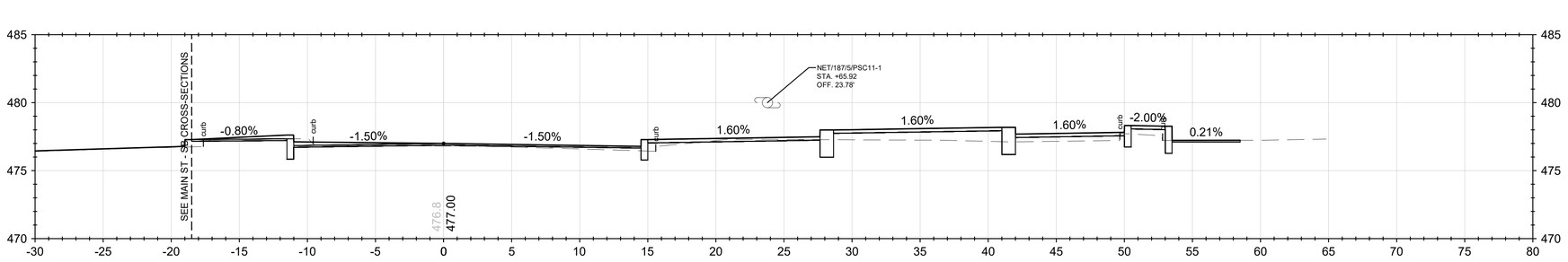

MAIN STREET - NORTHBOUND
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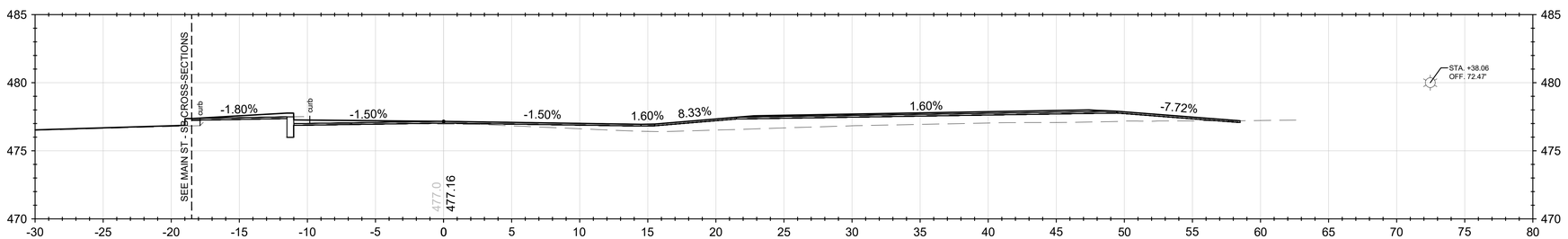

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2001+50.00

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Title
ROADWAY CROSS-SECTIONS
MAIN STREET - NORTHBOUND

Project No.	Scale
179450806	1" = 5

Revision	Sheet	Drawing No.
-	179 of 232	XS-03

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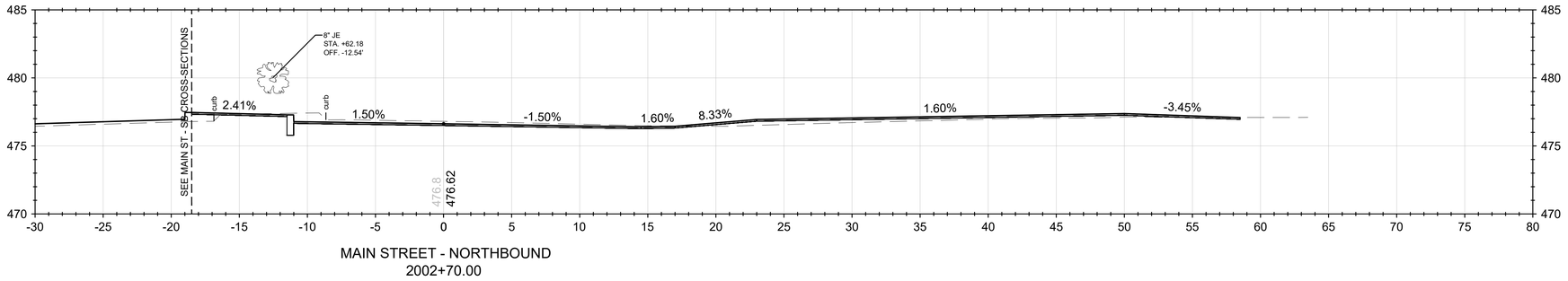
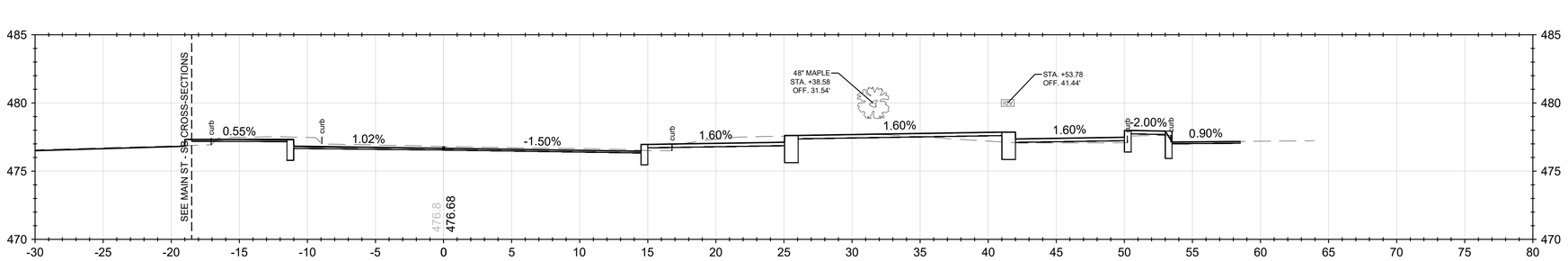


MAIN STREET - NORTHBOUND
2002+70.00



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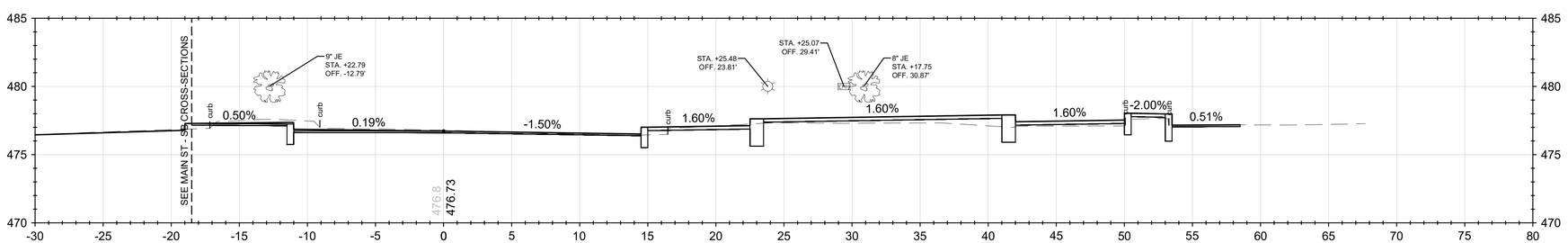

MAIN STREET - NORTHBOUND
2002+25.00

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KEENE DOWNTOWN IMPROVEMENTS

KEENE, NEW HAMPSHIRE

Title
ROADWAY CROSS-SECTIONS
MAIN STREET - NORTHBOUND

Project No.	Scale
179450806	1" = 5

Revision	Sheet	Drawing No.
-	180 of 232	XS-04

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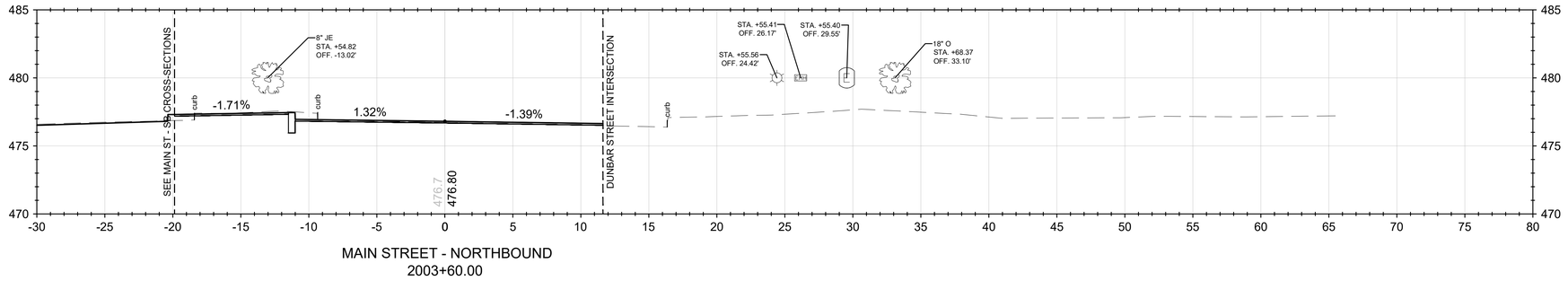
ORIGINAL SHEET - ANSI D



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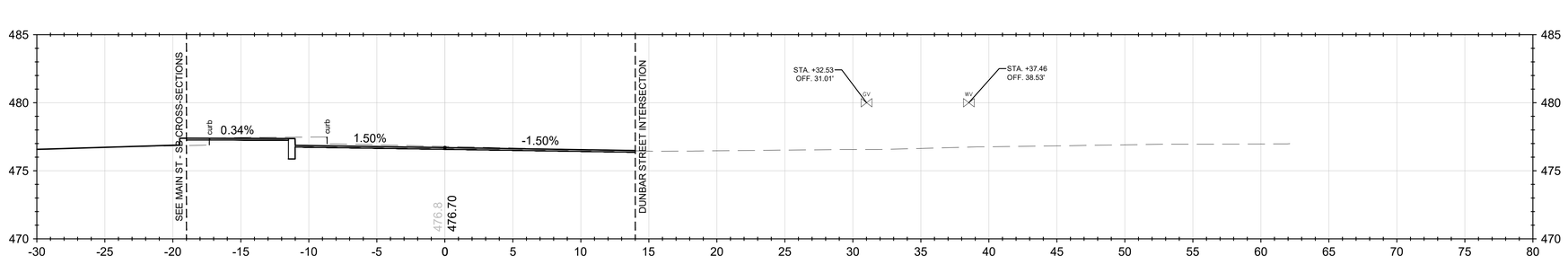

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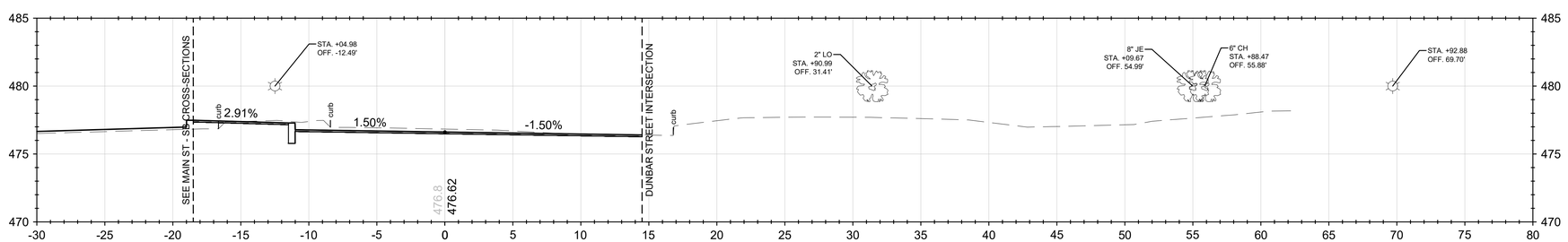

MAIN STREET - NORTHBOUND
2003+00.00

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Title
ROADWAY CROSS-SECTIONS
MAIN STREET - NORTHBOUND

Project No.	Scale
179450806	1" = 5

Revision	Sheet	Drawing No.
-	181 of 232	XS-05

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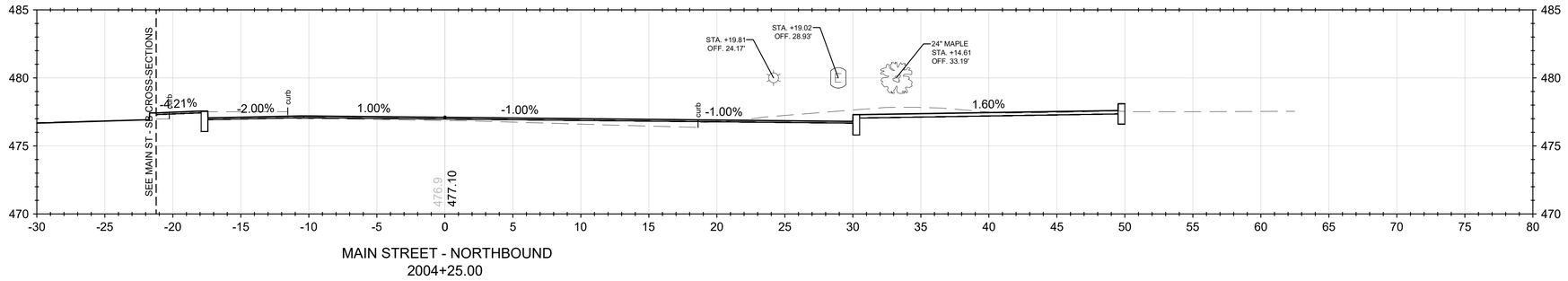

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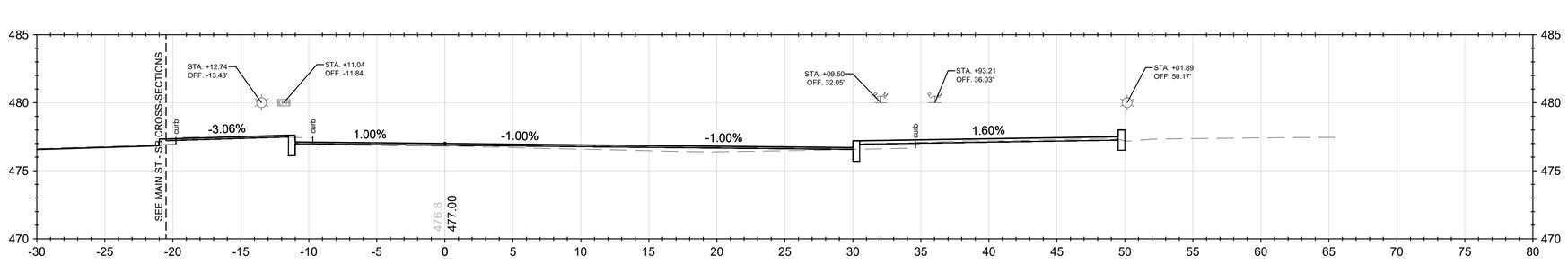

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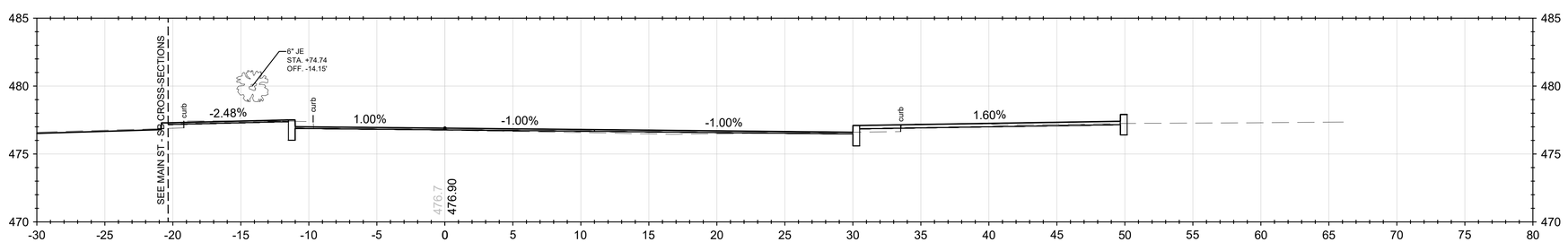
2004+00.00



MAIN STREET - NORTHBOUND
2003+80.00

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Title
ROADWAY CROSS-SECTIONS
MAIN STREET - NORTHBOUND

Project No.	Scale
179450806	1" = 5

Revision	Sheet	Drawing No.
-	182 of 232	**XS-06**

ORIGINAL SHEET - ANSI D

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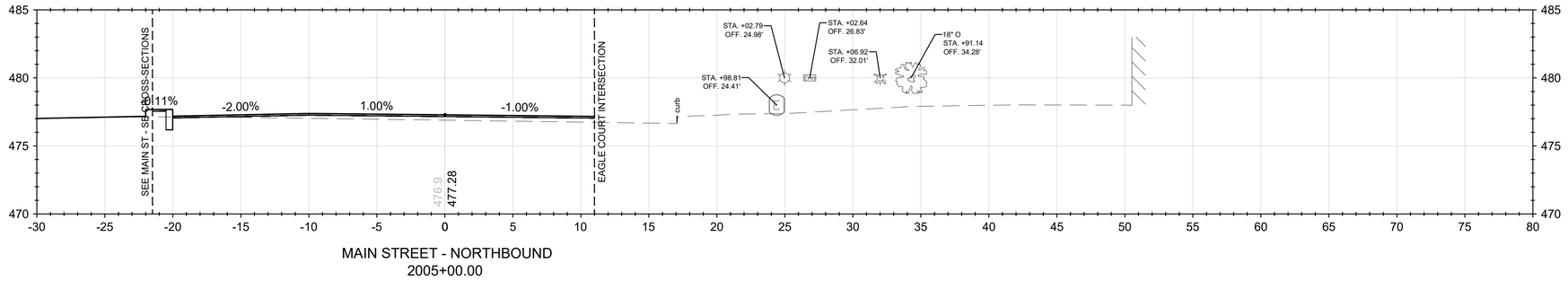
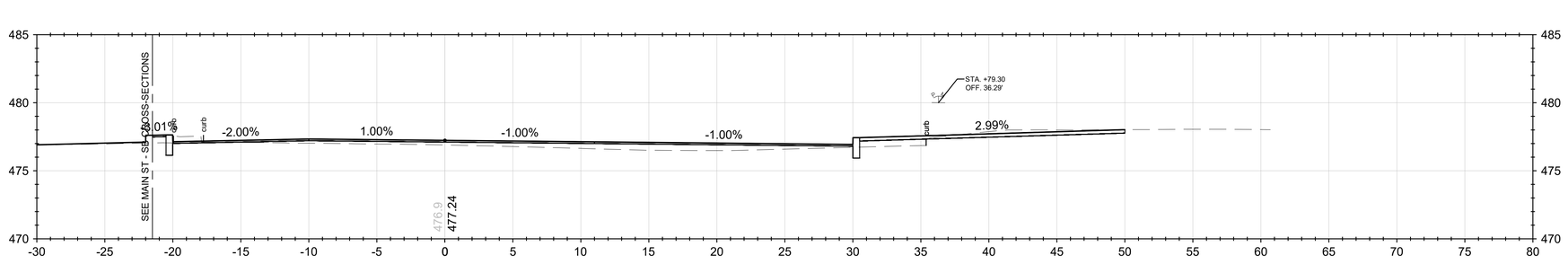
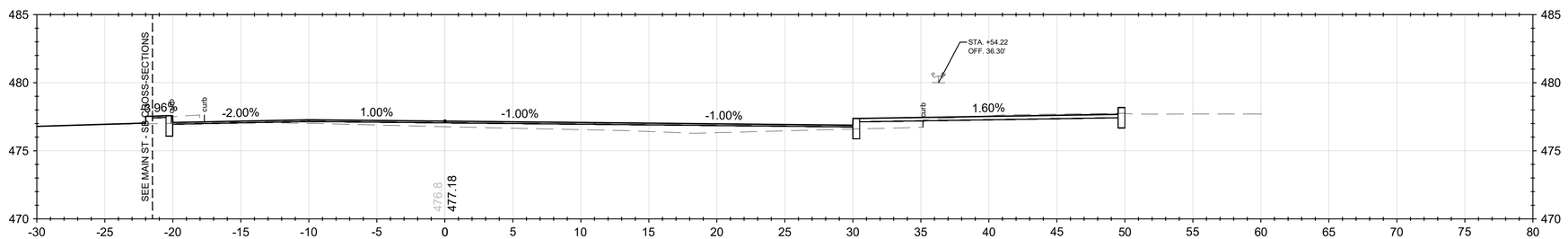


MAIN STREET - NORTHBOUND
2005+00.00



MAIN STREET - NORTHBOUND
2004+75.00



MAIN STREET - NORTHBOUND
2004+50.00

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Title
ROADWAY CROSS-SECTIONS
MAIN STREET - NORTHBOUND

Project No.	Scale
179450806	1" = 5

Revision	Sheet	Drawing No.
-	183 of 232	XS-07

ORIGINAL SHEET - ANSI D

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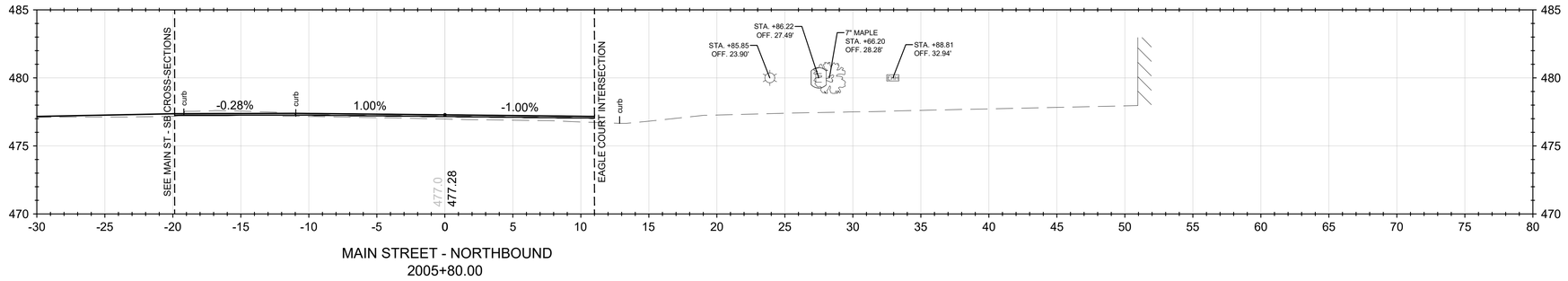
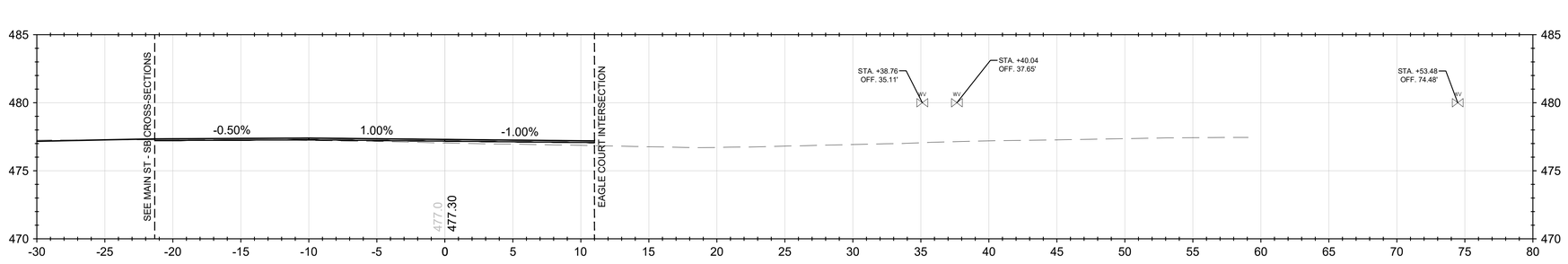


MAIN STREET - NORTHBOUND
2005+80.00



MAIN STREET - NORTHBOUND
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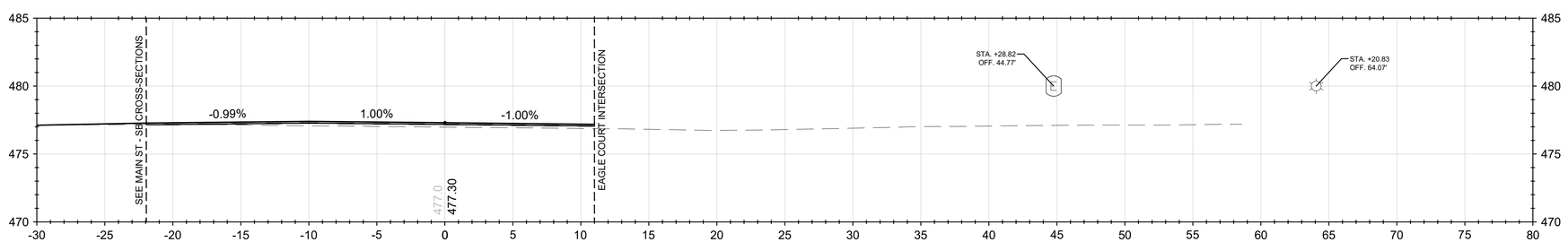

MAIN STREET - NORTHBOUND
2005+25.00

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Title
ROADWAY CROSS-SECTIONS
MAIN STREET - NORTHBOUND

Project No.	Scale
179450806	1" = 5

Revision	Sheet	Drawing No.
-	184 of 232	XS-08

ORIGINAL SHEET - ANSI D

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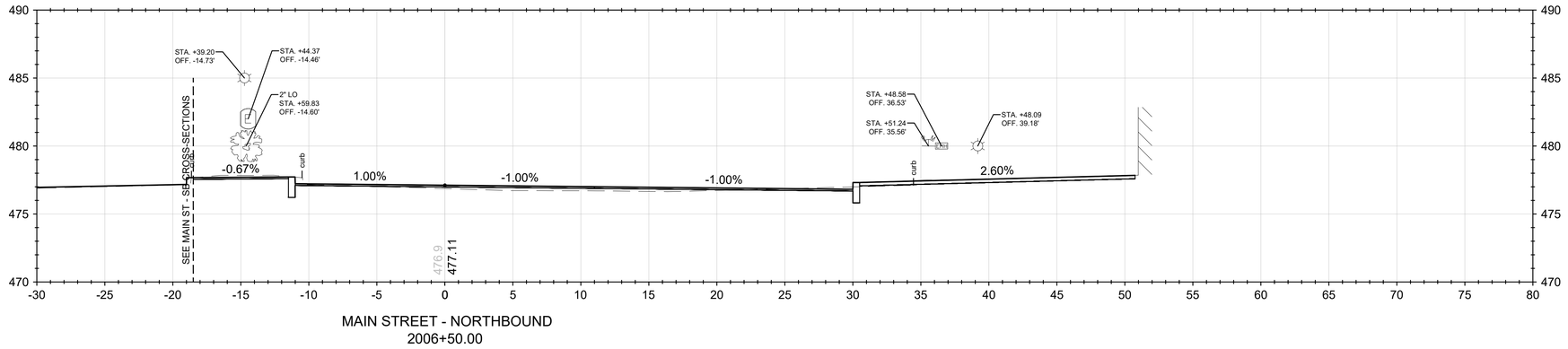
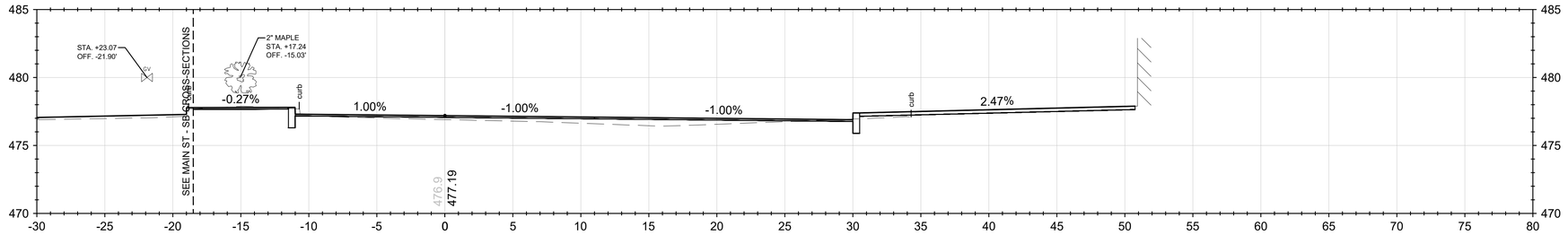
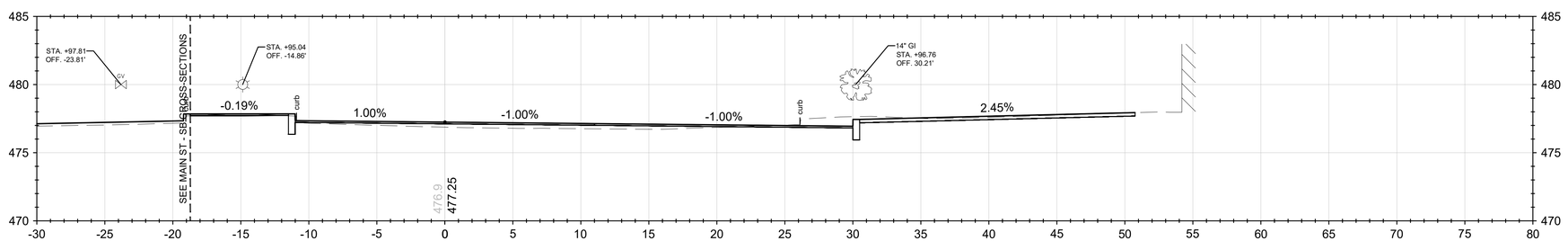


MAIN STREET - NORTHBOUND
2006+50.00



MAIN STREET - NORTHBOUND
2006+25.00



MAIN STREET - NORTHBOUND
2006+00.00

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KEENE, NEW HAMPSHIRE

Title
ROADWAY CROSS-SECTIONS
MAIN STREET - NORTHBOUND

Project No.	Scale
179450806	1" = 5

Revision	Sheet	Drawing No.
-	185 of 232	XS-09

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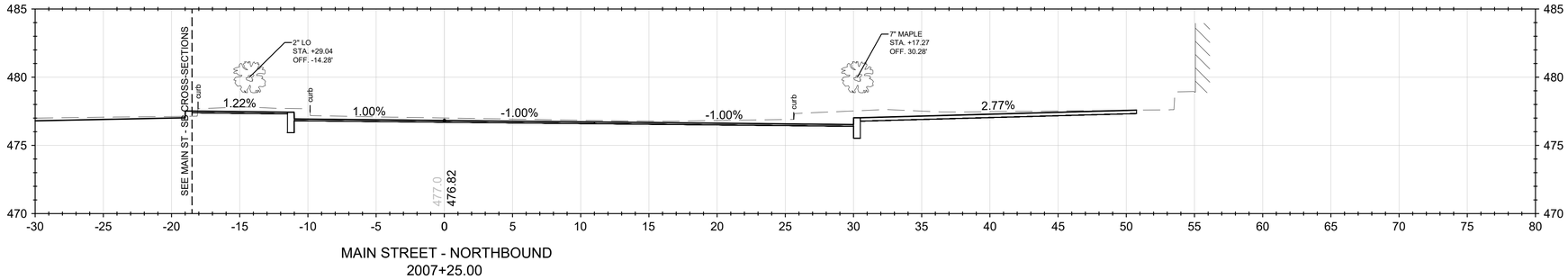

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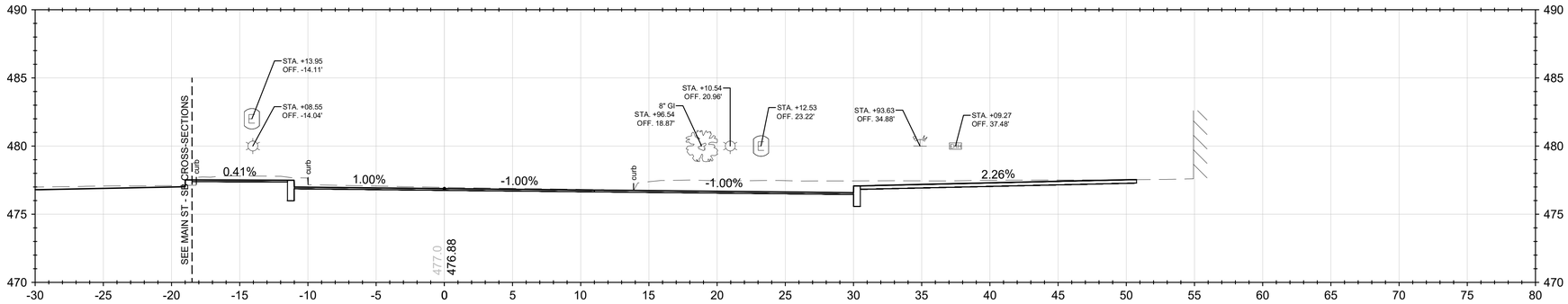
2007+25.00



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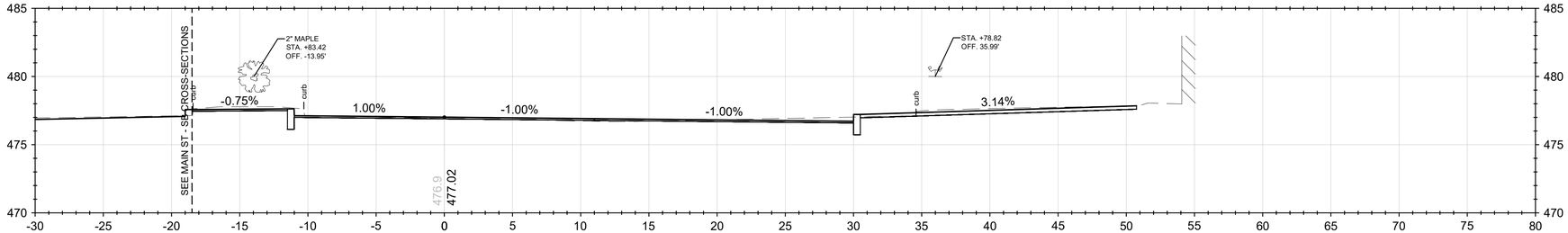
2007+05.00



MAIN STREET - NORTHBOUND
2006+75.00

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KEENE, NEW HAMPSHIRE

Title
ROADWAY CROSS-SECTIONS
MAIN STREET - NORTHBOUND

Project No.	Scale
179450806	1" = 5

Revision	Sheet	Drawing No.
-	186 of 232	XS-10

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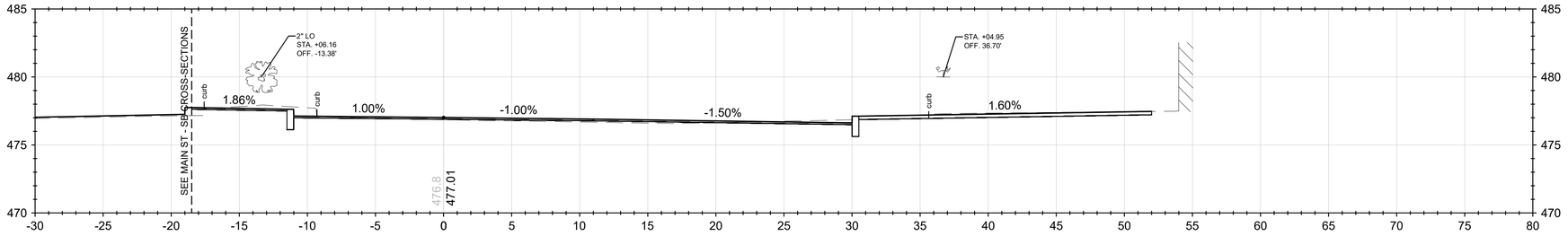
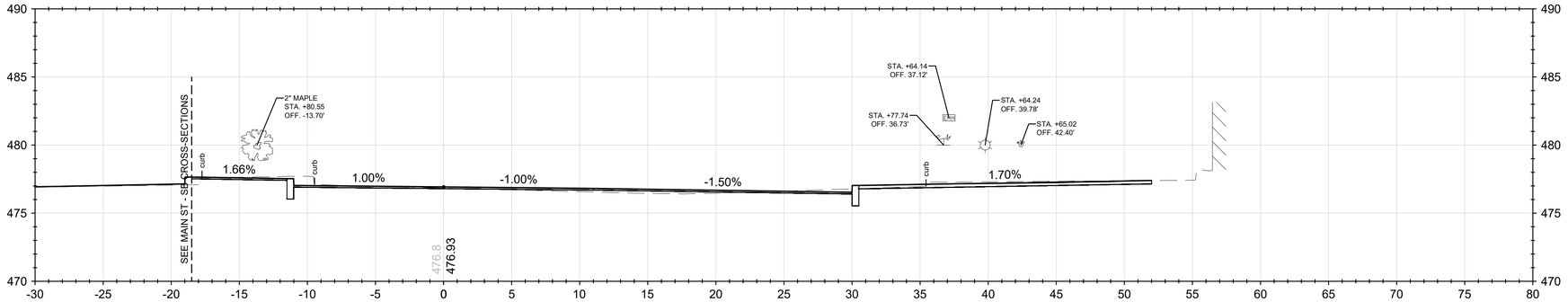


MAIN STREET - NORTHBOUND
2008+00.00



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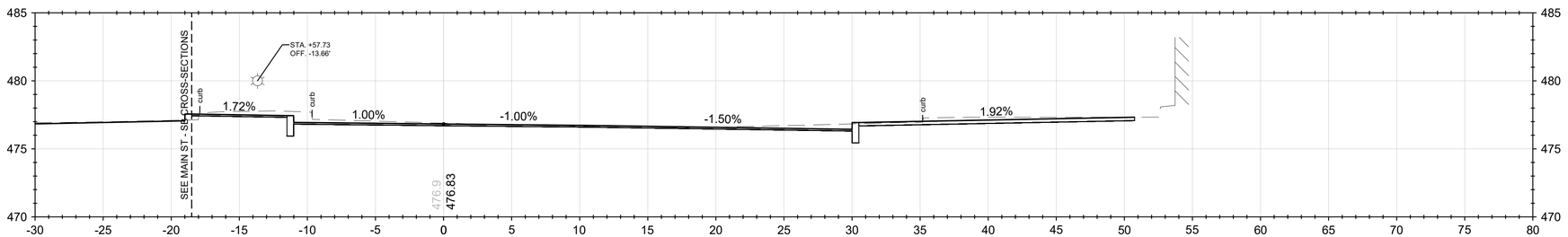
2007+75.00



MAIN STREET - NORTHBOUND
2007+50.00

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KEENE, NEW HAMPSHIRE

Title
ROADWAY CROSS-SECTIONS
MAIN STREET - NORTHBOUND

Project No.	Scale
179450806	1" = 5

Revision	Sheet	Drawing No.
-	187 of 232	**XS-11**

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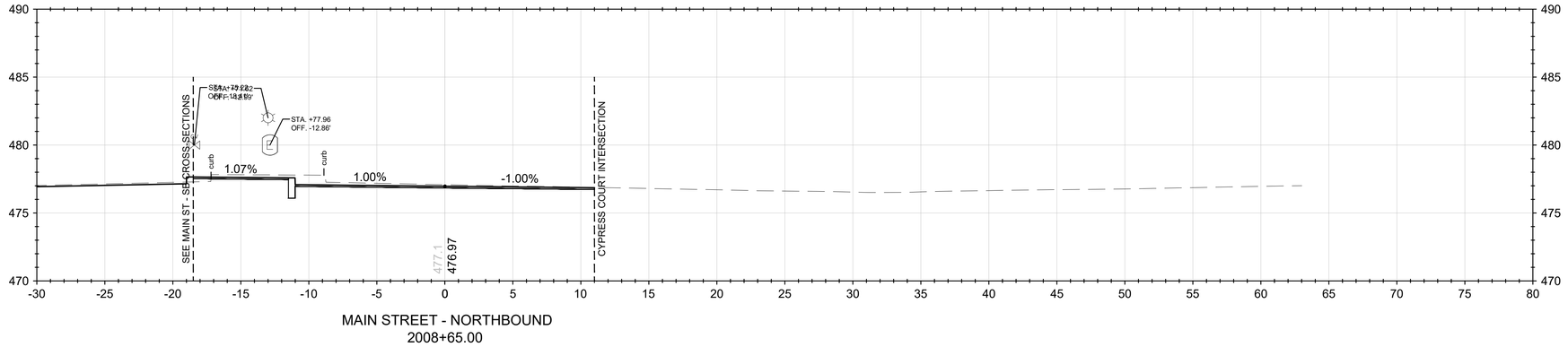

MAIN STREET - NORTHBOUND
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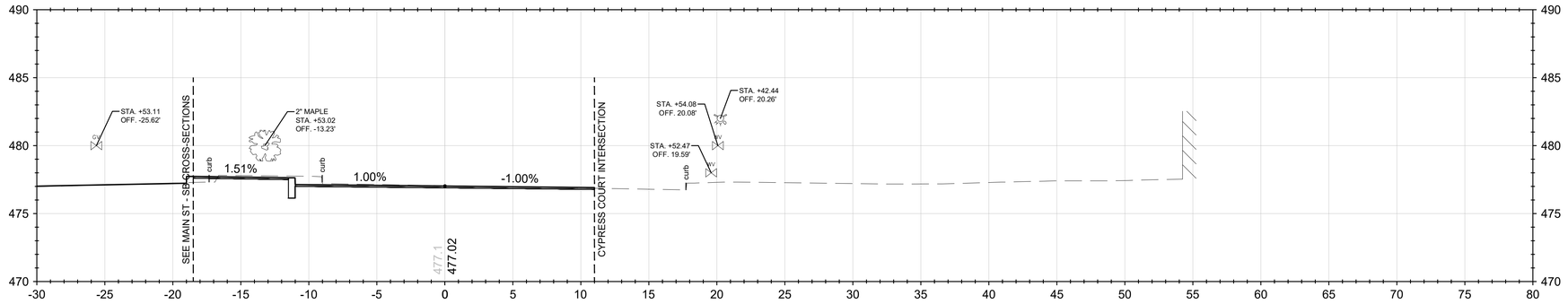
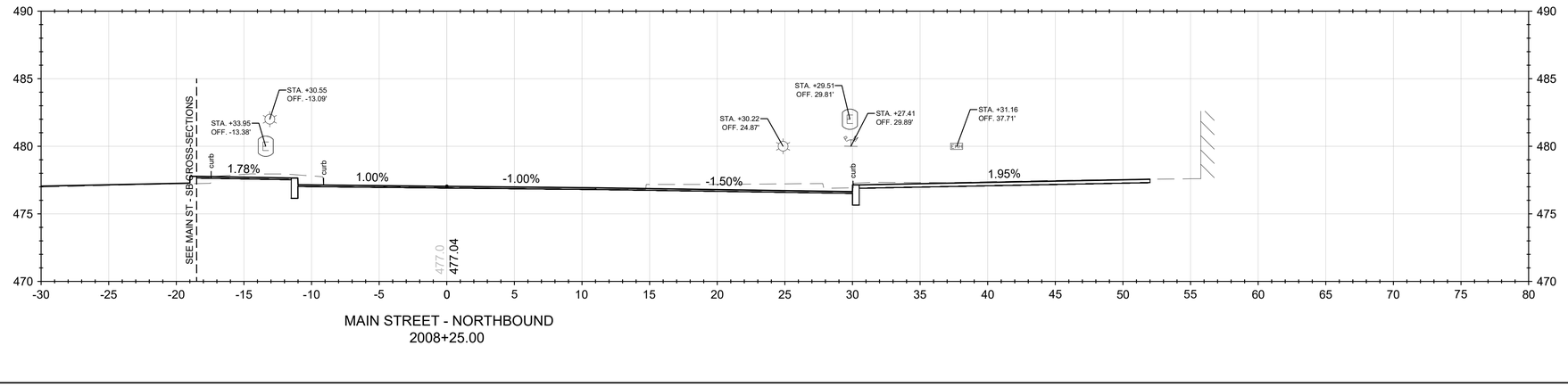


MAIN STREET - NORTHBOUND
2008+45.00



MAIN STREET - NORTHBOUND
2008+25.00

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Title
ROADWAY CROSS-SECTIONS
MAIN STREET - NORTHBOUND

Project No.
179450806

Scale
1" = 5

Revision
-

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188 of 232

Drawing No.
XS-12

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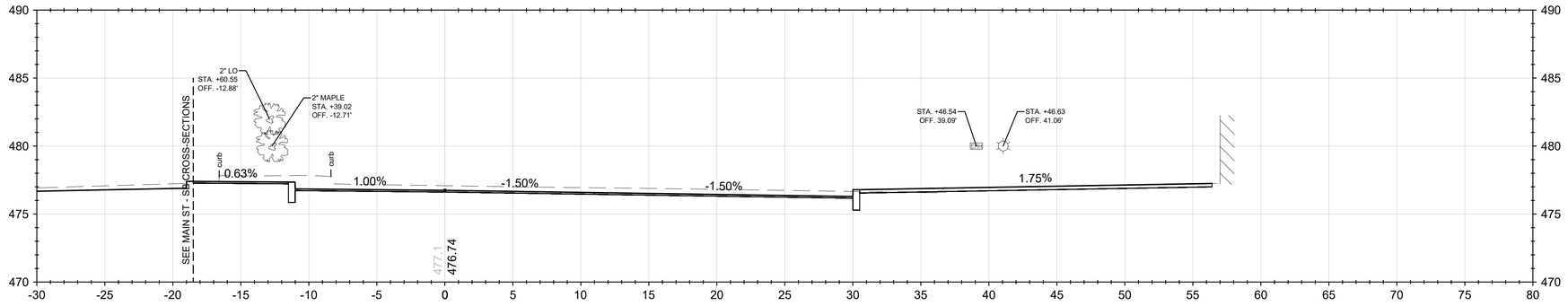
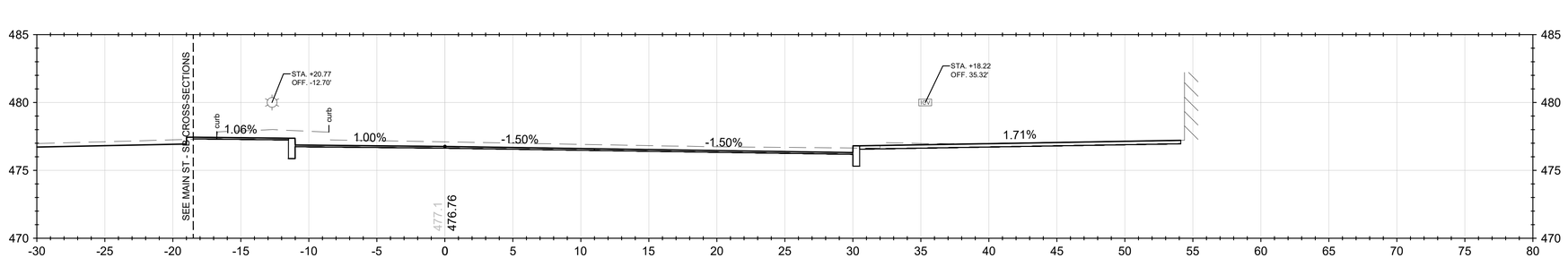
ORIGINAL SHEET - ANSI D



MAIN STREET - NORTHBOUND
2009+50.00



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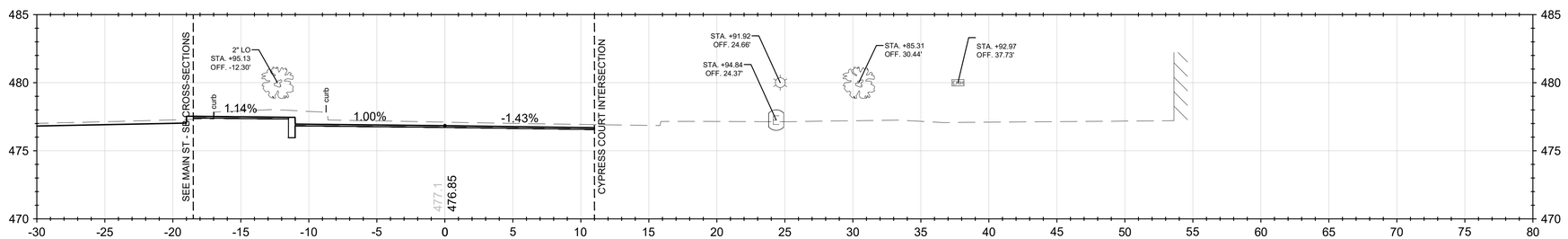
2009+25.00



MAIN STREET - NORTHBOUND
2008+92.00

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Issued	By	Appd	YYYY-MM-DD
File Name: 50806_XS - MAIN ST N - 01	TJG Dwn.	TJG Dsgn.	DEM Chkd.	2025-01-28 YYYY-MM-DD

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CITY OF KEENE

KEENE DOWNTOWN IMPROVEMENTS

KEENE, NEW HAMPSHIRE

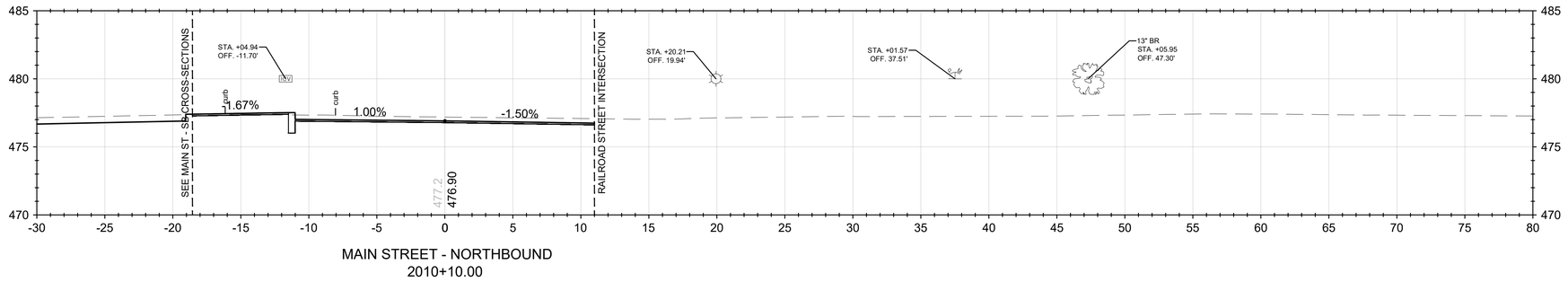
Title
ROADWAY CROSS-SECTIONS
MAIN STREET - NORTHBOUND

Project No.	Scale
179450806	1" = 5

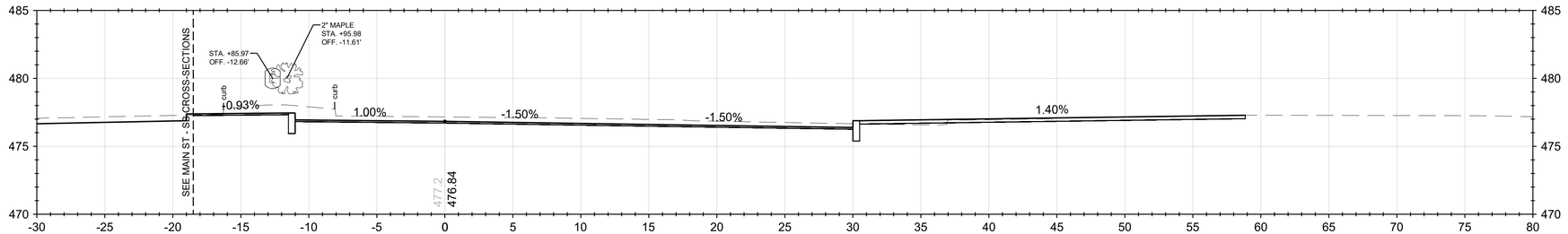
Revision	Sheet	Drawing No.
-	189 of 232	XS-13

c:\179450806\transportation\drawing\cad\50806_xs - main st n - 01
2025.01.28 3:30:23 PM

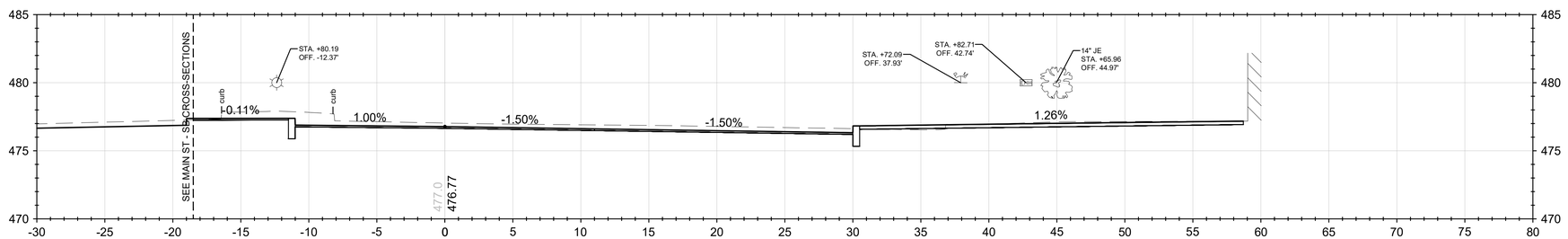
ORIGINAL SHEET - ANSI D



MAIN STREET - NORTHBOUND
2010+10.00



MAIN STREET - NORTHBOUND
2009+95.00



MAIN STREET - NORTHBOUND
2009+75.00

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File Name: 50806_XS - MAIN ST N - 01	TJG Dwn.	TJG Dsgn.	DEM Chkd.	2025-01-28 YYYY-MM-DD

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KEENE, NEW HAMPSHIRE

Title
ROADWAY CROSS-SECTIONS
MAIN STREET - NORTHBOUND

Project No.	Scale
179450806	1" = 5

Revision	Sheet	Drawing No.
-	190 of 232	XS-14

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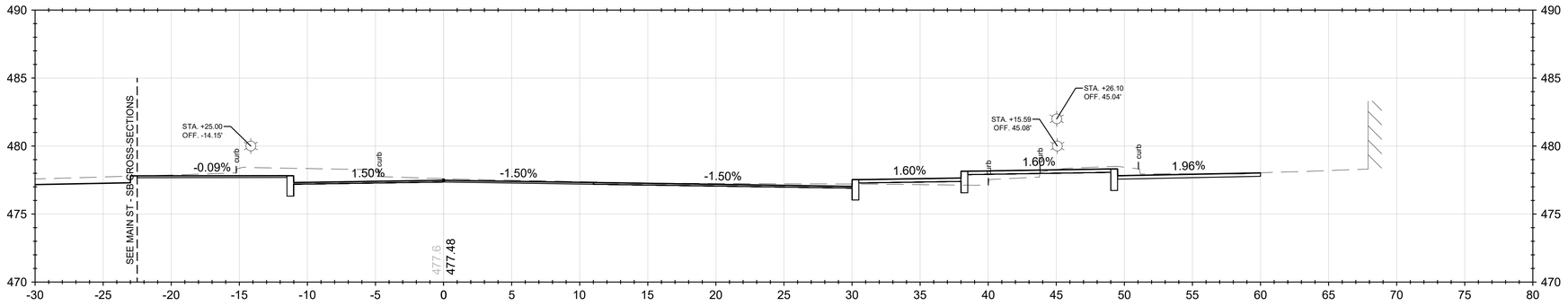
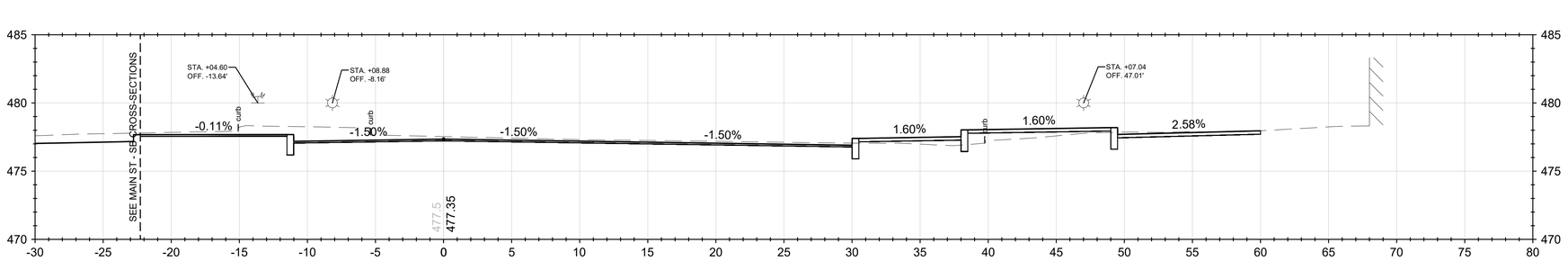
ORIGINAL SHEET - ANSI D



MAIN STREET - NORTHBOUND
2011+25.00



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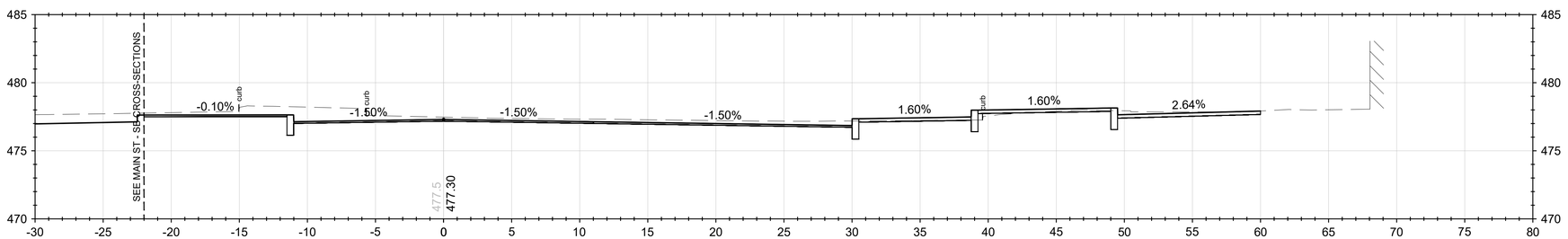
2011+00.00



MAIN STREET - NORTHBOUND
2010+90.00

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KEENE, NEW HAMPSHIRE

Title
ROADWAY CROSS-SECTIONS
MAIN STREET - NORTHBOUND

Project No.	Scale
179450806	1" = 5

Revision	Sheet	Drawing No.
-	191 of 232	XS-15

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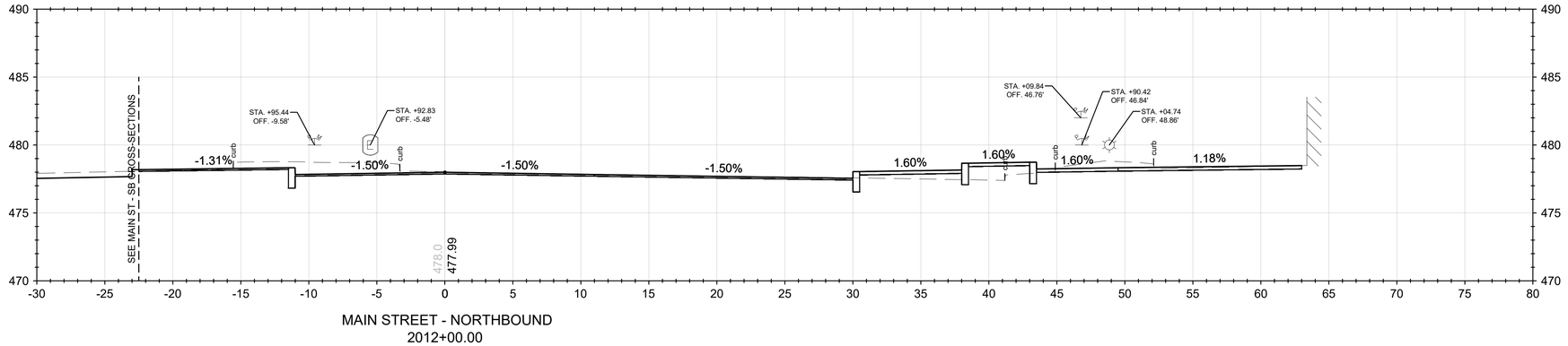
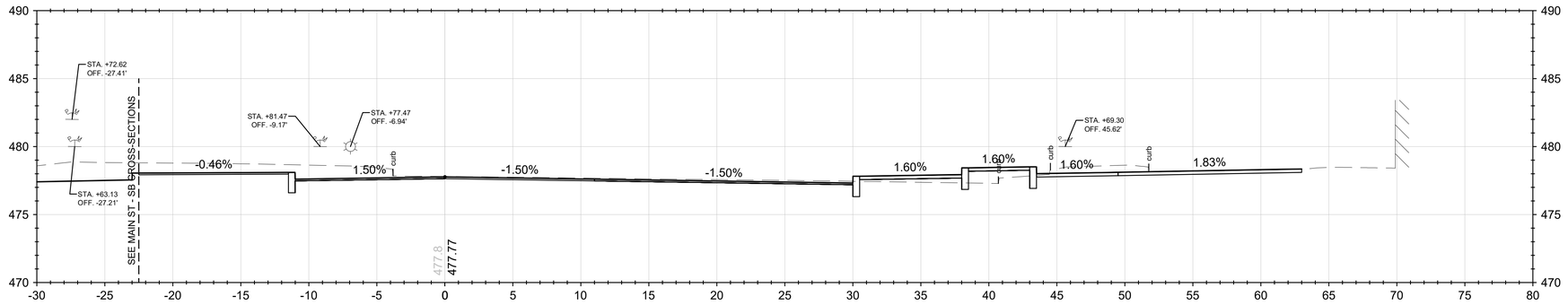
2025.01.28 3:30:59 PM

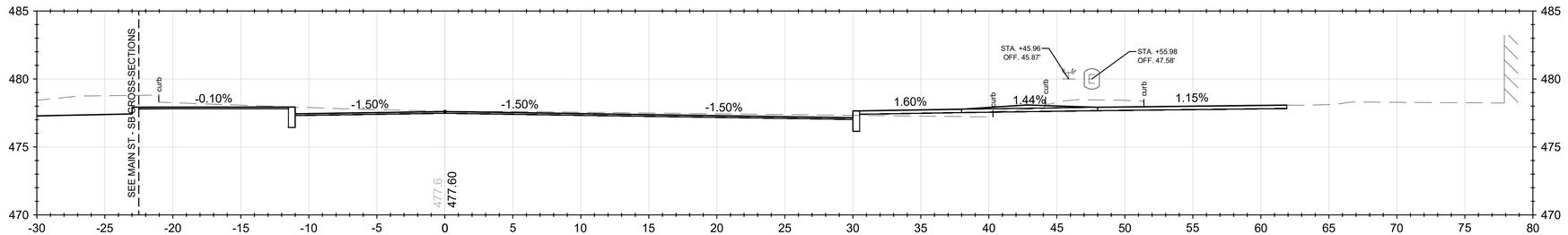
ORIGINAL SHEET - ANSI D



MAIN STREET - NORTHBOUND
2012+00.00



MAIN STREET - NORTHBOUND
2011+75.00



MAIN STREET - NORTHBOUND
2011+50.00

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Title
ROADWAY CROSS-SECTIONS
MAIN STREET - NORTHBOUND

Project No.	Scale
179450806	1" = 5

Revision	Sheet	Drawing No.
-	192 of 232	XS-16

ORIGINAL SHEET - ANSI D
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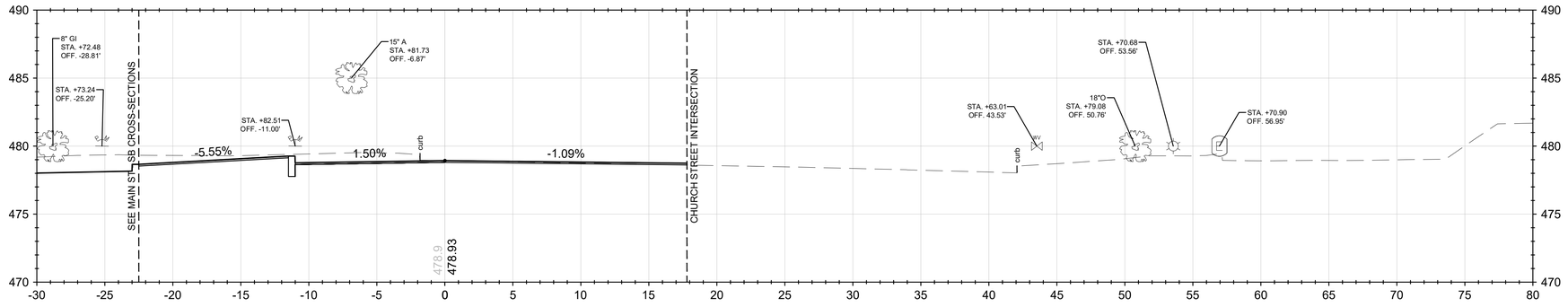
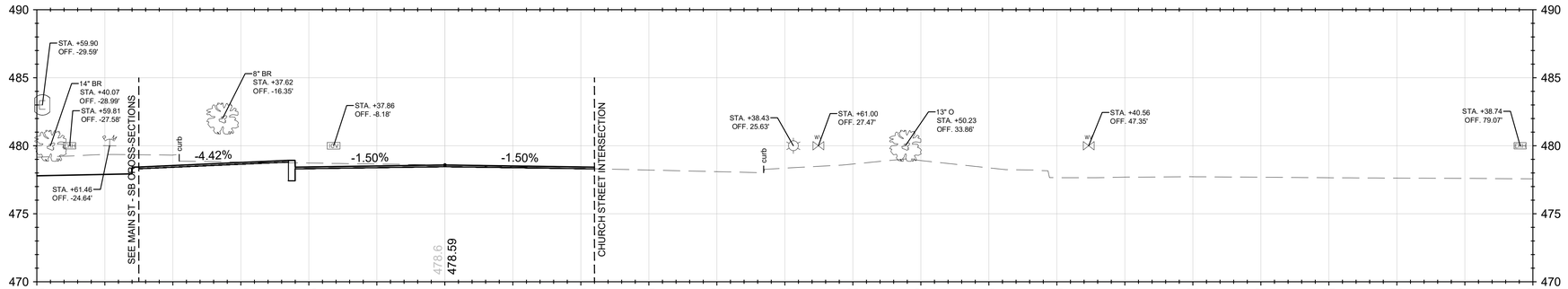
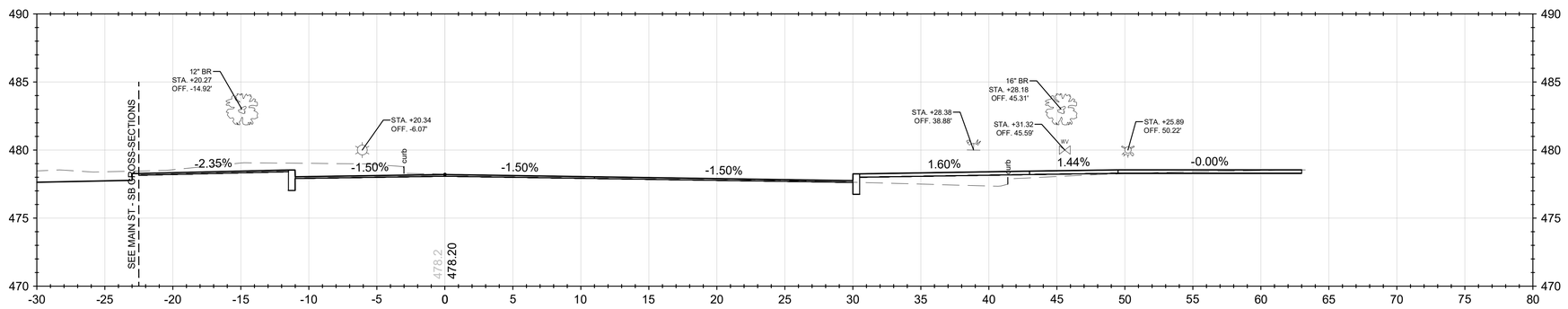


MAIN STREET - NORTHBOUND
2012+75.00



MAIN STREET - NORTHBOUND
2012+50.00



MAIN STREET - NORTHBOUND
2012+20.00

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Issued	By	Appd	YYYY-MM-DD
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KEENE, NEW HAMPSHIRE

Title
ROADWAY CROSS-SECTIONS
MAIN STREET - NORTHBOUND

Project No.	Scale
179450806	1" = 5

Revision	Sheet	Drawing No.
-	193 of 232	XS-17

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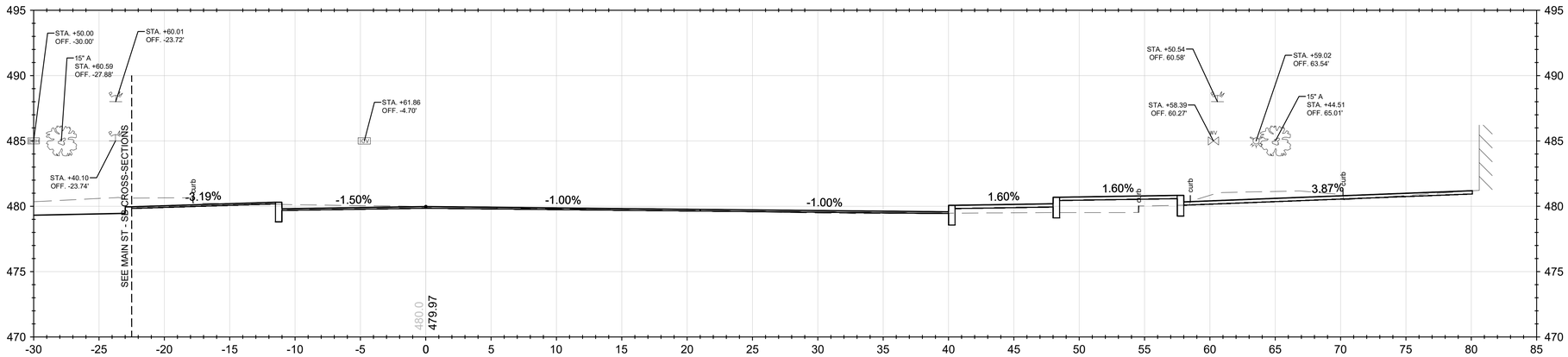

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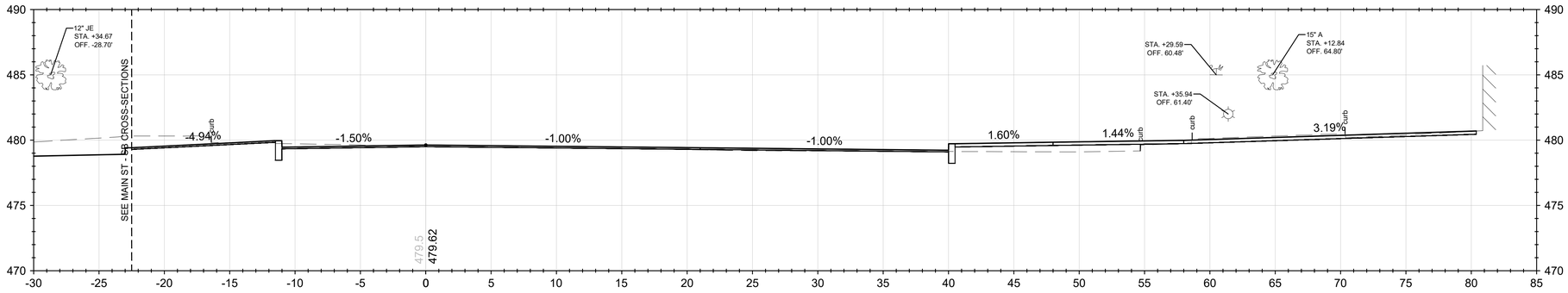

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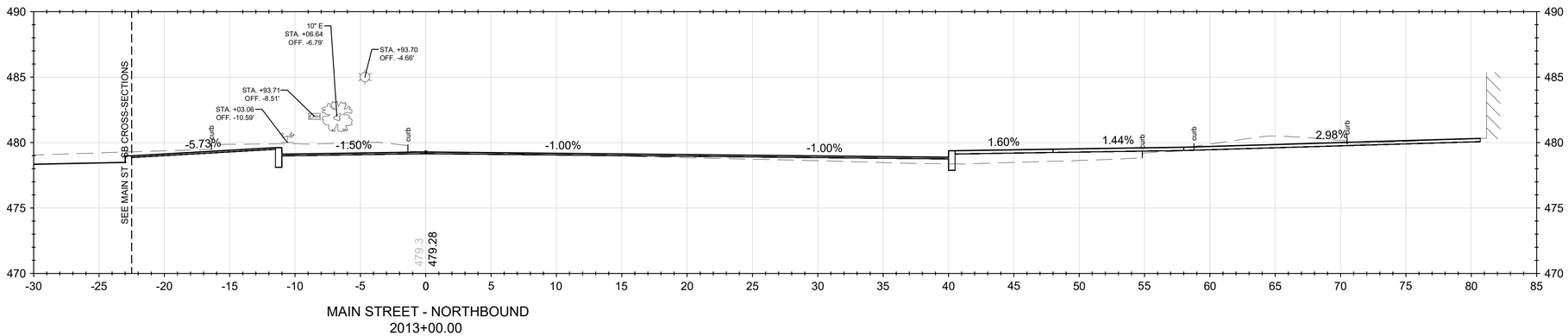
2013+25.00



MAIN STREET - NORTHBOUND
2013+00.00

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KEENE, NEW HAMPSHIRE

Title
ROADWAY CROSS-SECTIONS
MAIN STREET - NORTHBOUND

Project No.
179450806

Scale
1" = 5

Revision
-

Sheet
194 of 232

Drawing No.
XS-18

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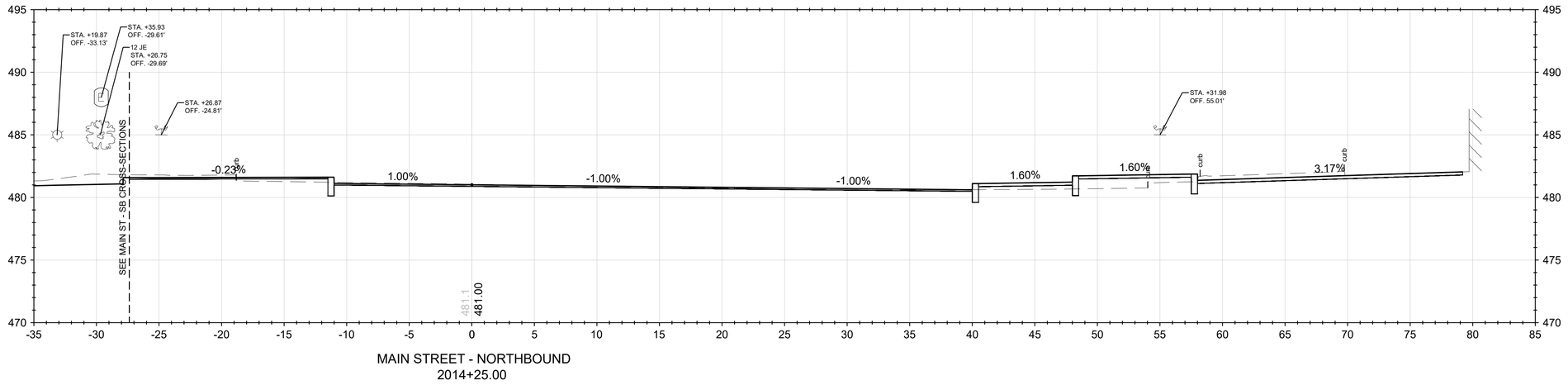
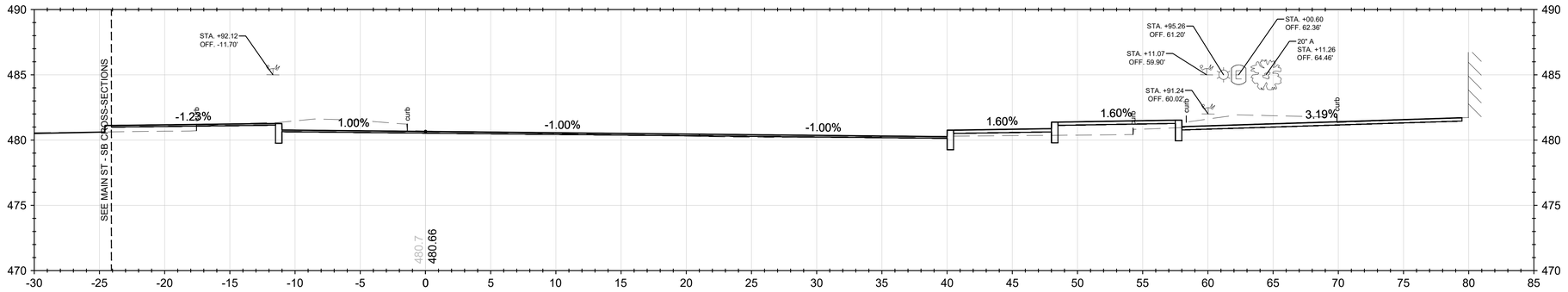


MAIN STREET - NORTHBOUND
2014+25.00



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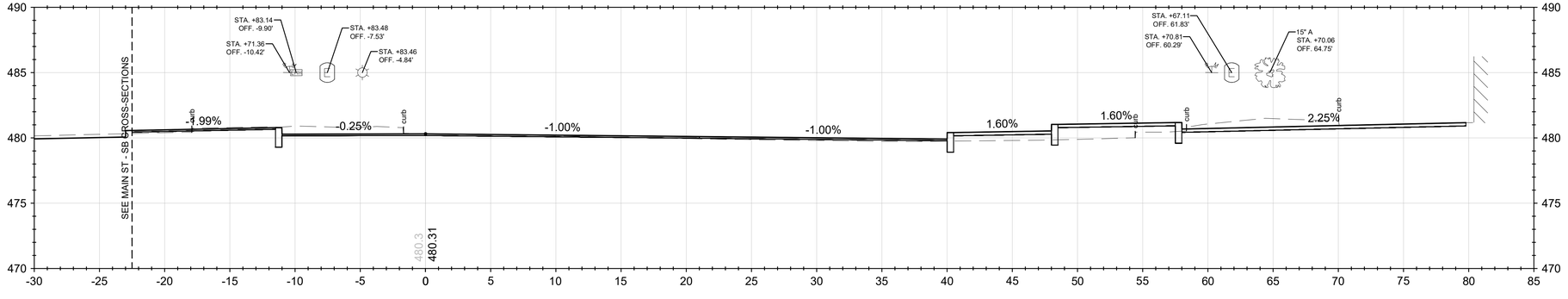
2014+00.00



MAIN STREET - NORTHBOUND
2013+75.00

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File Name: 50806_XS - MAIN ST N - 02	TJG Dwn.	TJG Dsgn.	DEM Chkd.
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KEENE, NEW HAMPSHIRE

Title
ROADWAY CROSS-SECTIONS
MAIN STREET - NORTHBOUND

Project No.
179450806

Scale
1" = 5

Revision
-

Sheet
195 of 232

Drawing No.
XS-19

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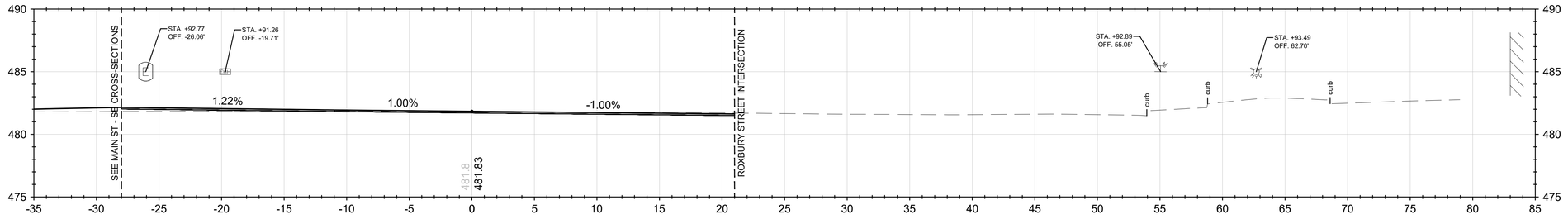
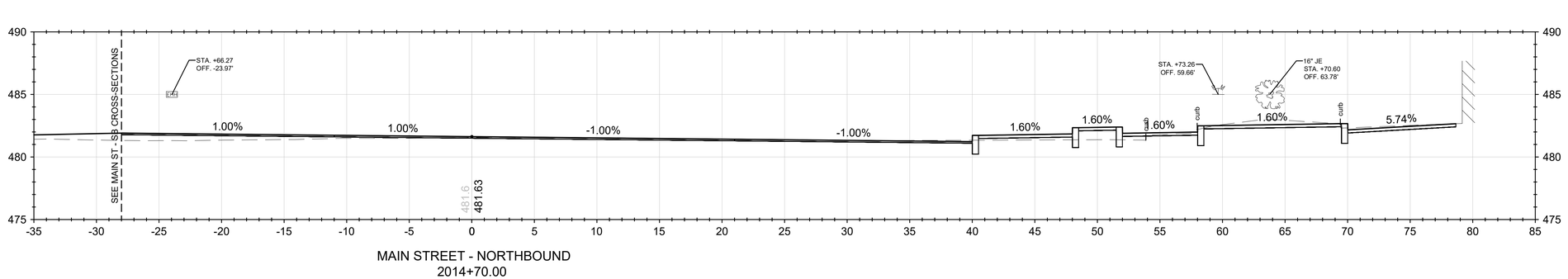


MAIN STREET - NORTHBOUND
2014+85.00



MAIN STREET - NORTHBOUND
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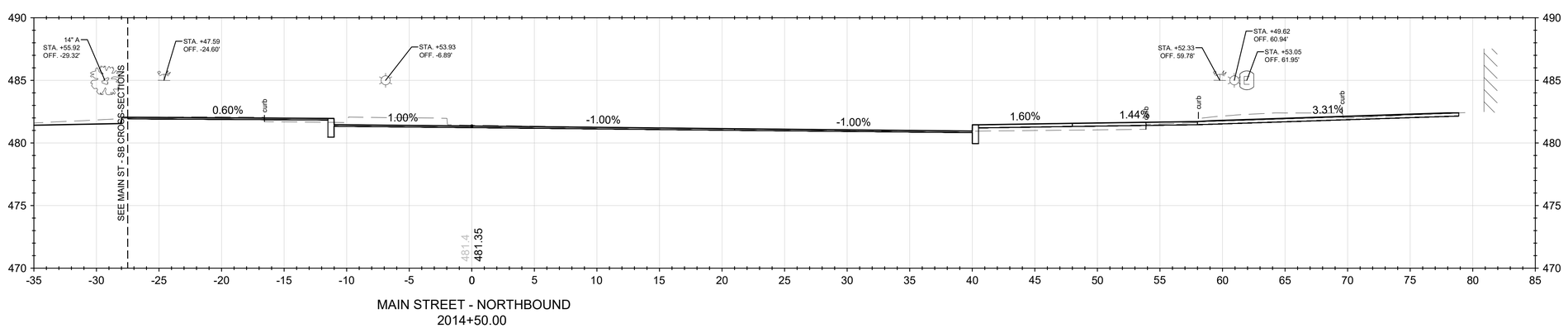

MAIN STREET - NORTHBOUND
2014+50.00

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KEENE, NEW HAMPSHIRE

Title
ROADWAY CROSS-SECTIONS
MAIN STREET - NORTHBOUND

Project No.	Scale
179450806	1" = 5

Revision	Sheet	Drawing No.
-	196 of 232	XS-20

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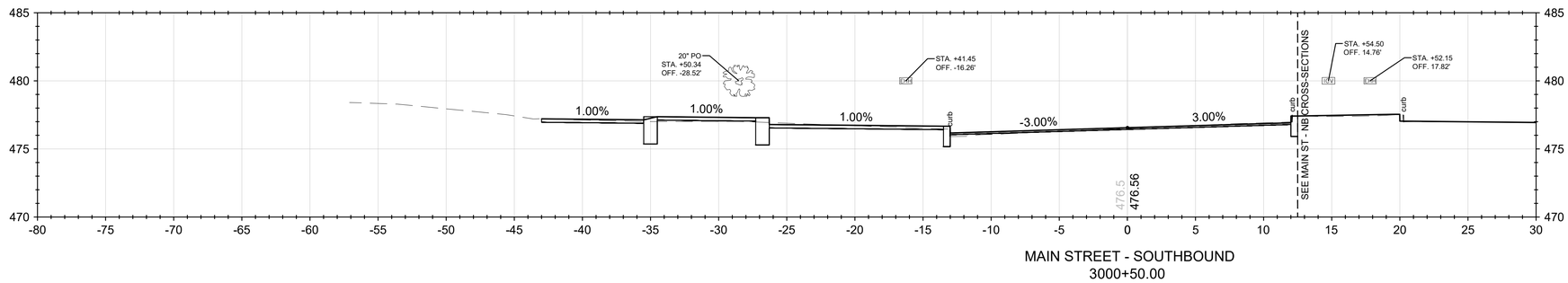

MAIN STREET - SOUTHBOUND
3000+50.00

MAIN STREET - SOUTHBOUND
3000+25.00

MAIN STREET - SOUTHBOUND
3000+10.00

MAIN STREET - SOUTHBOUND
3000+00.00

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Title
ROADWAY CROSS-SECTIONS
MAIN STREET - SOUTHBOUND

Project No.	Scale
179450806	1" = 5

Revision	Sheet	Drawing No.
-	197 of 232	XS-21

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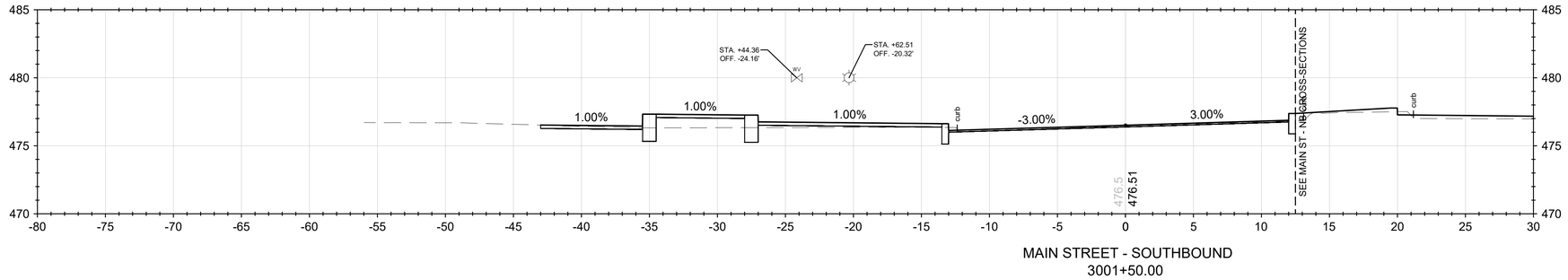
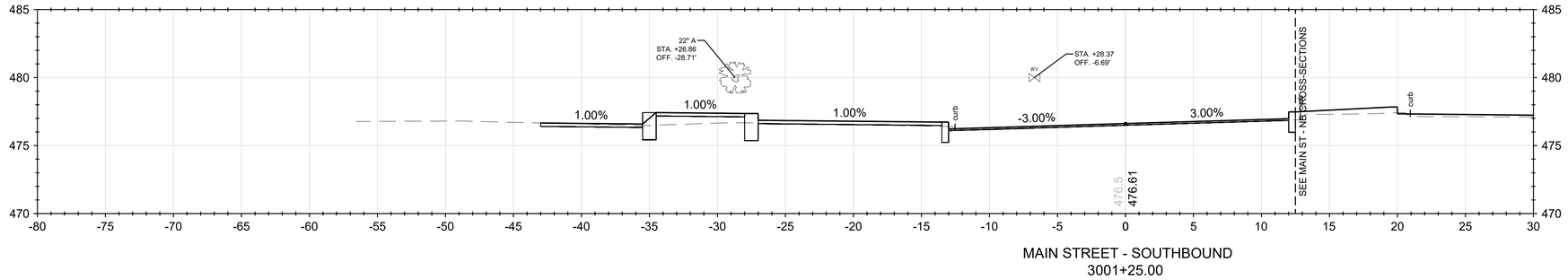
2025.01.28 3:33:54 PM

ORIGINAL SHEET - ANSI D



MAIN STREET - SOUTHBOUND
3001+50.00



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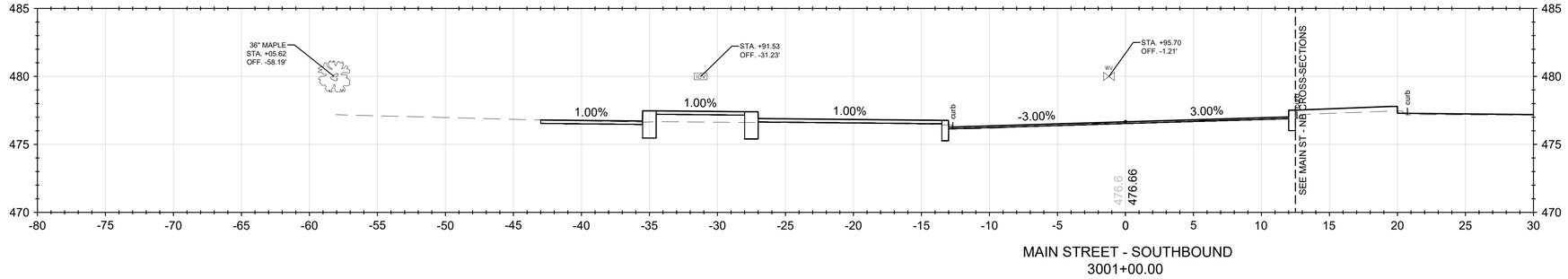

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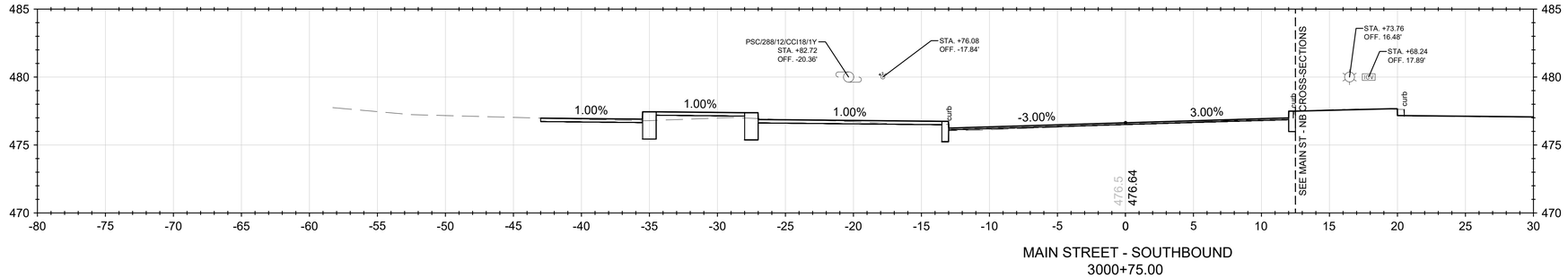

MAIN STREET - SOUTHBOUND
3000+75.00

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Revision	By	Appd	YYYY-MM-DD
Issued	By	Appd	YYYY-MM-DD
File Name: 50806_XS - MAIN ST S - 01	TJG Dwn.	TJG Dsgn.	DEM Chkd.
			2025-01-28 YYYY-MM-DD

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Client/Project Logo

Client/Project
CITY OF KEENE

KEENE DOWNTOWN IMPROVEMENTS

KEENE, NEW HAMPSHIRE

Title
ROADWAY CROSS-SECTIONS
MAIN STREET - SOUTHBOUND

Project No.	Scale
179450806	1" = 5

Revision	Sheet	Drawing No.
-	198 of 232	XS-22

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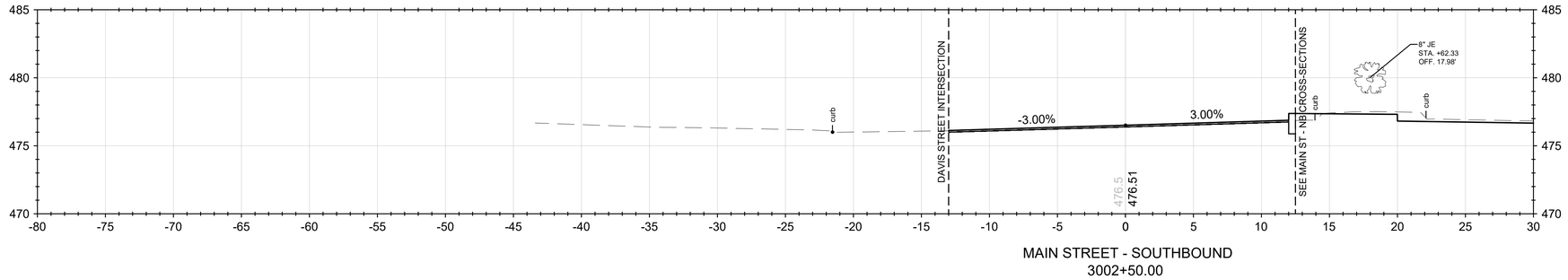

MAIN STREET - SOUTHBOUND
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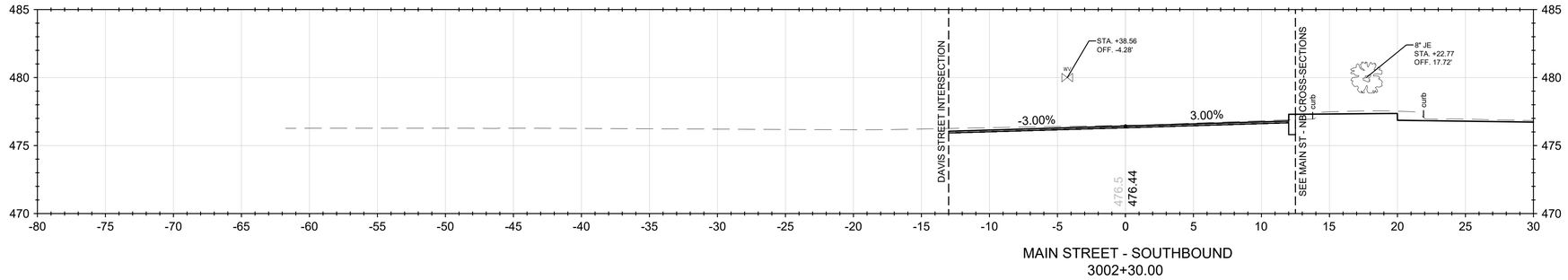
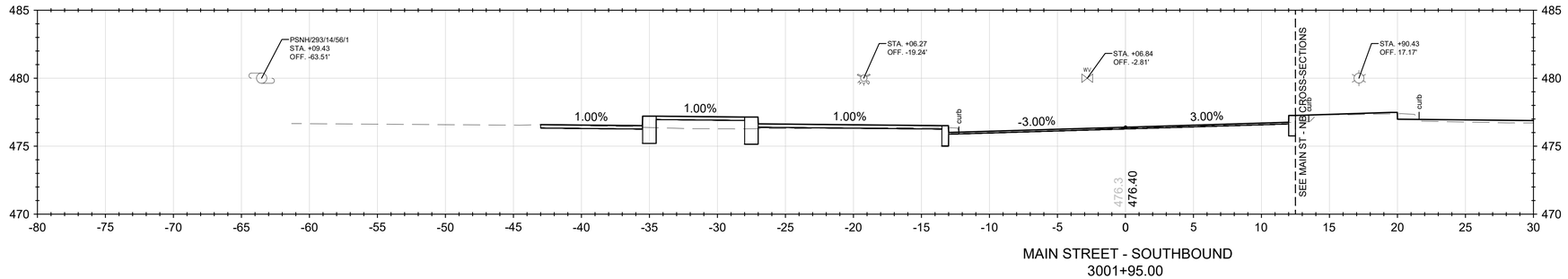
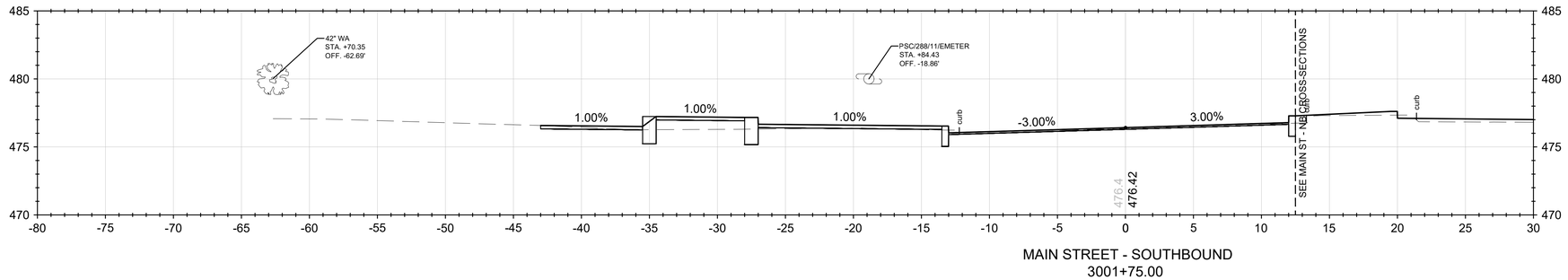


MAIN STREET - SOUTHBOUND
3002+30.00



MAIN STREET - SOUTHBOUND
3001+95.00



MAIN STREET - SOUTHBOUND
3001+75.00

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Client/Project
CITY OF KEENE

KEENE DOWNTOWN IMPROVEMENTS

KEENE, NEW HAMPSHIRE

Title
ROADWAY CROSS-SECTIONS
MAIN STREET - SOUTHBOUND

Project No.	Scale
179450806	1" = 5

Revision	Sheet	Drawing No.
-	199 of 232	XS-23

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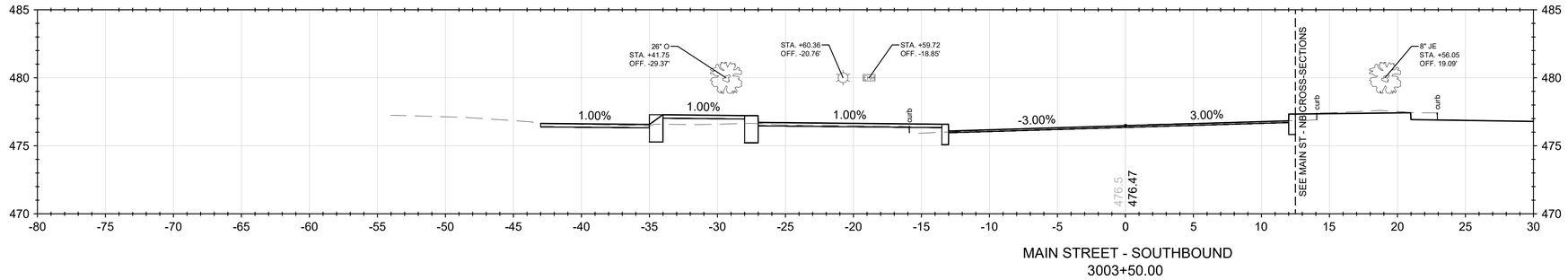
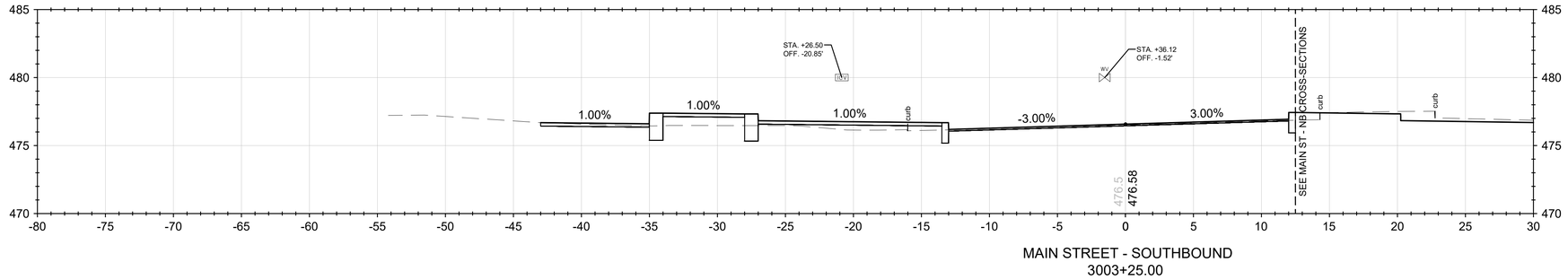
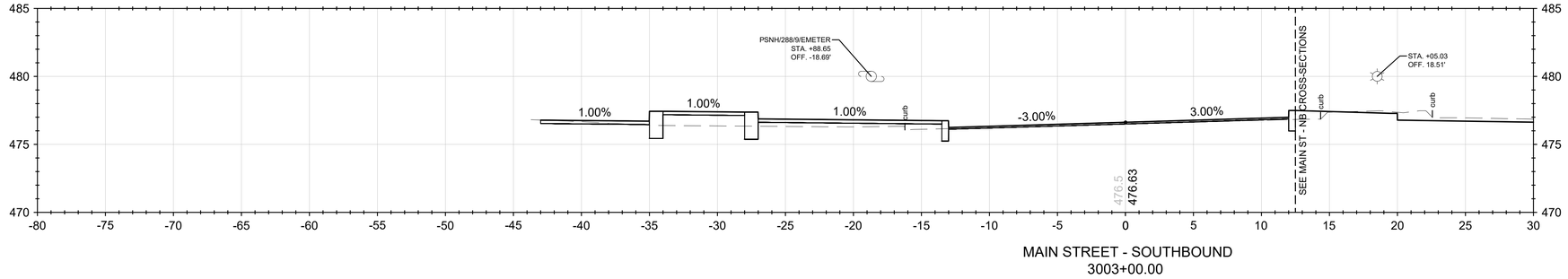


MAIN STREET - SOUTHBOUND
3003+50.00



MAIN STREET - SOUTHBOUND
3003+25.00



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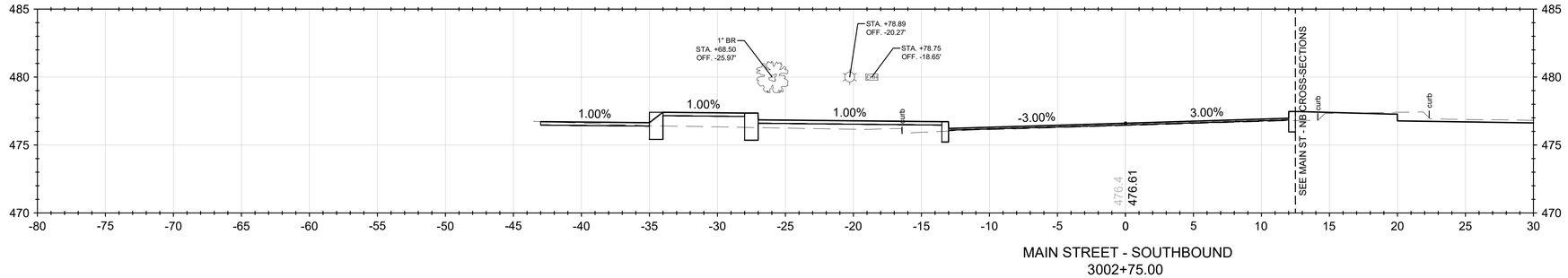

MAIN STREET - SOUTHBOUND
3002+75.00

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KEENE DOWNTOWN IMPROVEMENTS

KEENE, NEW HAMPSHIRE

Title
ROADWAY CROSS-SECTIONS
MAIN STREET - SOUTHBOUND

Project No.	Scale
179450806	1" = 5

Revision	Sheet	Drawing No.
-	200 of 232	XS-24

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2025.01.28 3:32:22 PM

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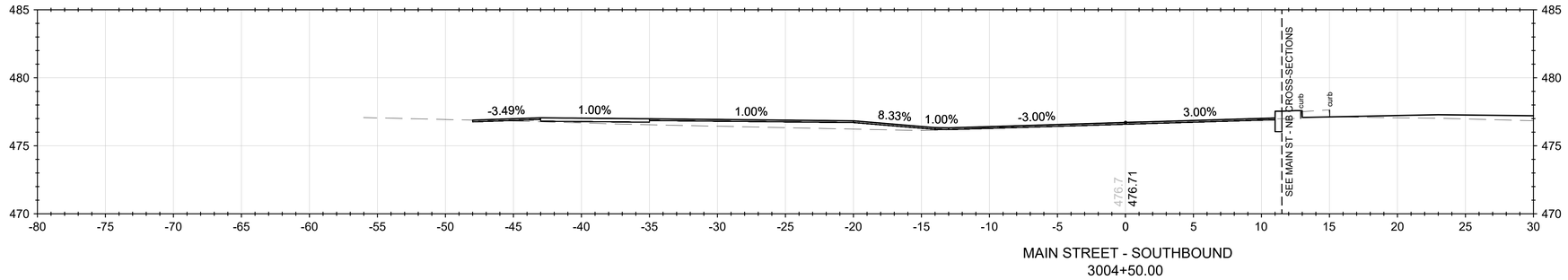
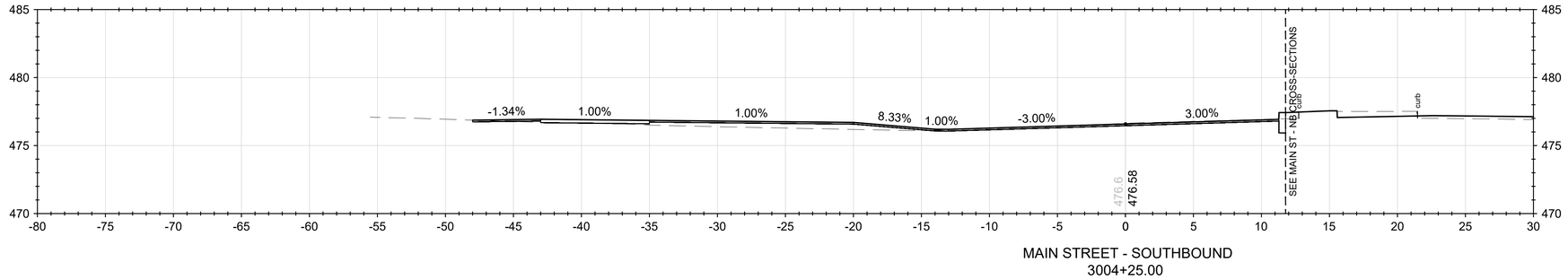
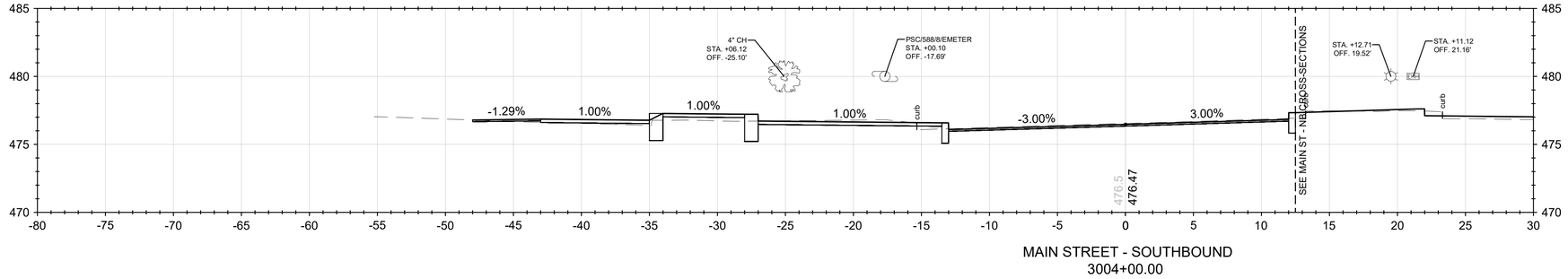


MAIN STREET - SOUTHBOUND
3004+50.00



MAIN STREET - SOUTHBOUND
3004+25.00



MAIN STREET - SOUTHBOUND
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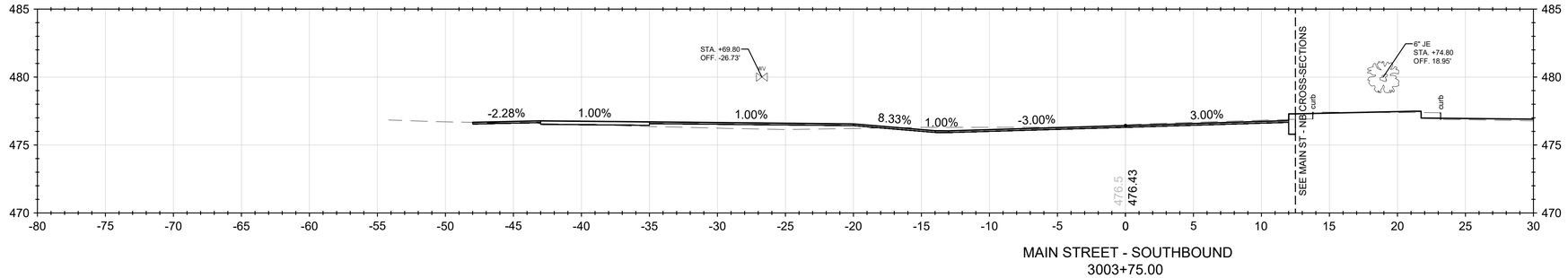

MAIN STREET - SOUTHBOUND
3003+75.00

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CITY OF KEENE

KEENE DOWNTOWN IMPROVEMENTS

KEENE, NEW HAMPSHIRE

Title
ROADWAY CROSS-SECTIONS
MAIN STREET - SOUTHBOUND

Project No.	Scale
179450806	1" = 5

Revision	Sheet	Drawing No.
-	201 of 232	XS-25

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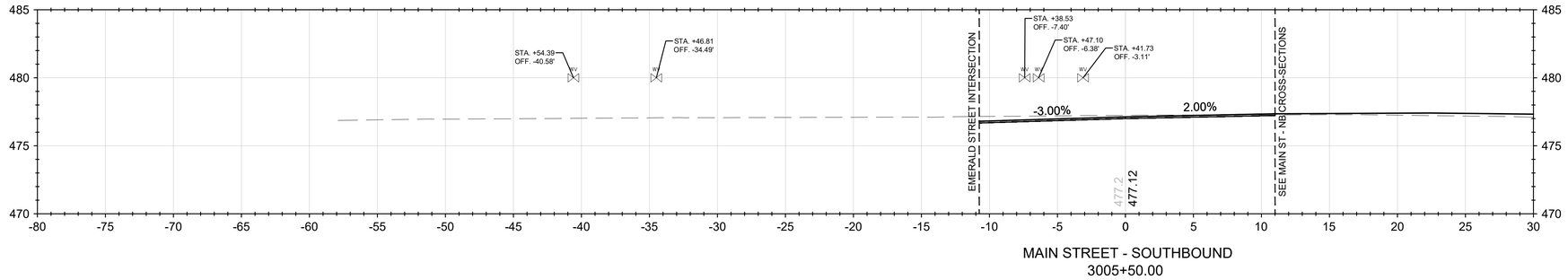
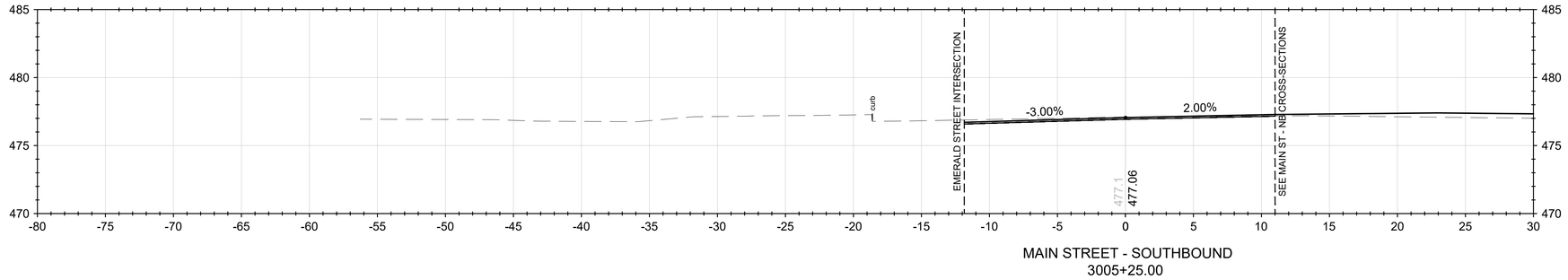
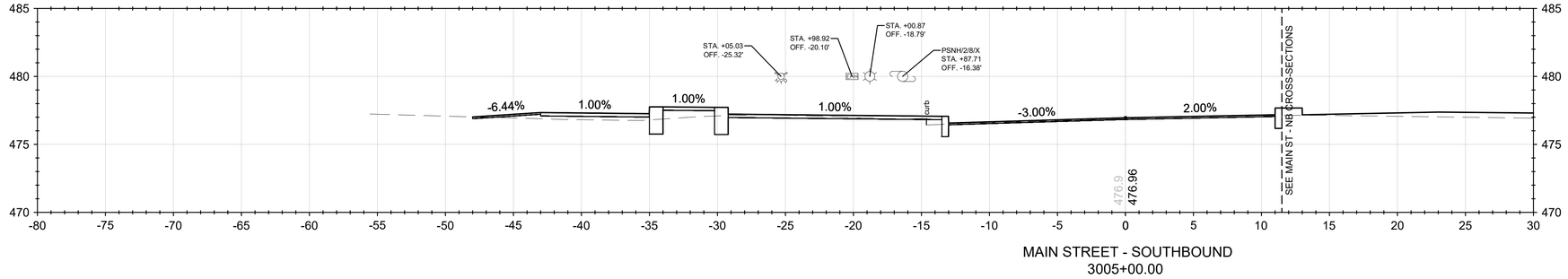


MAIN STREET - SOUTHBOUND
3005+50.00



MAIN STREET - SOUTHBOUND
3005+25.00



MAIN STREET - SOUTHBOUND
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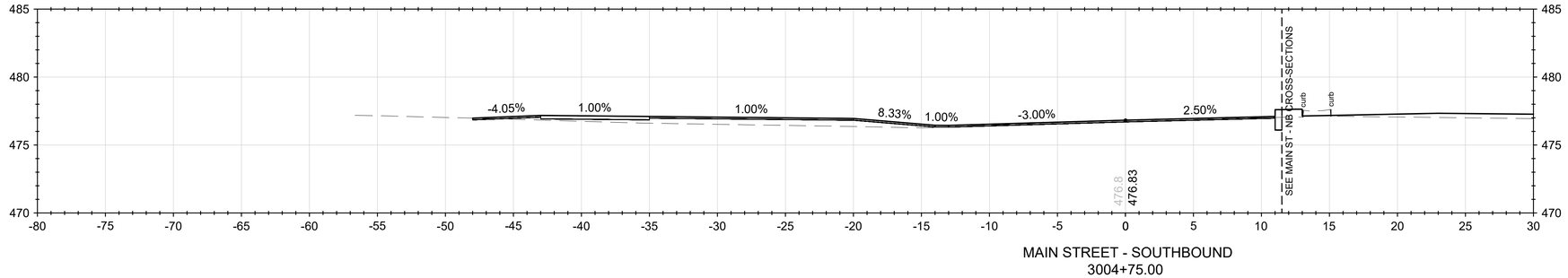

MAIN STREET - SOUTHBOUND
3004+75.00

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KEENE DOWNTOWN IMPROVEMENTS

KEENE, NEW HAMPSHIRE

Title
ROADWAY CROSS-SECTIONS
MAIN STREET - SOUTHBOUND

Project No.	Scale
179450806	1" = 5

Revision	Sheet	Drawing No.
-	202 of 232	XS-26

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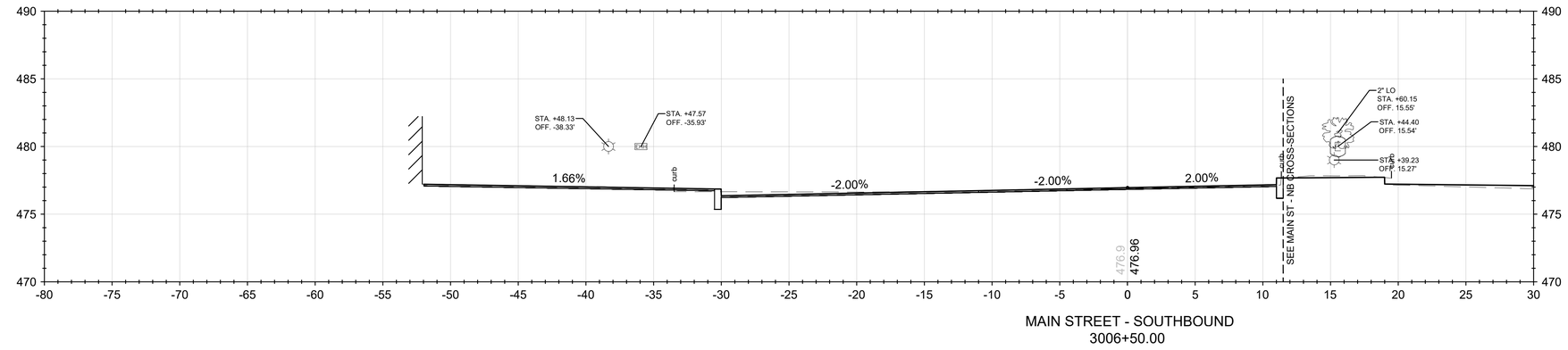
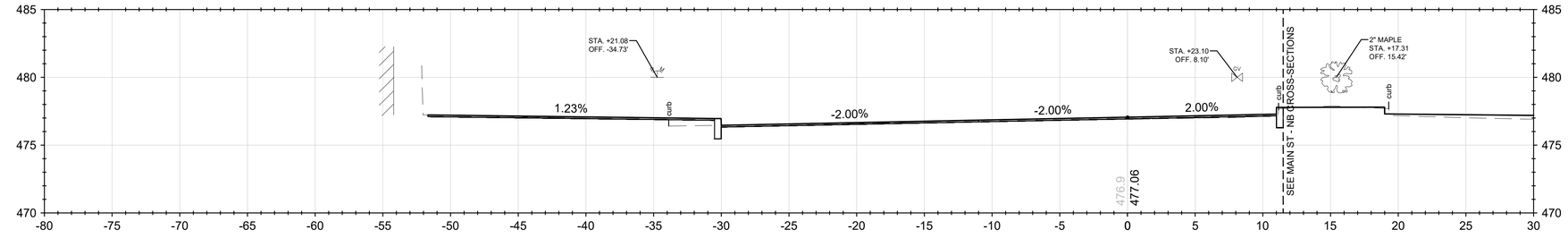
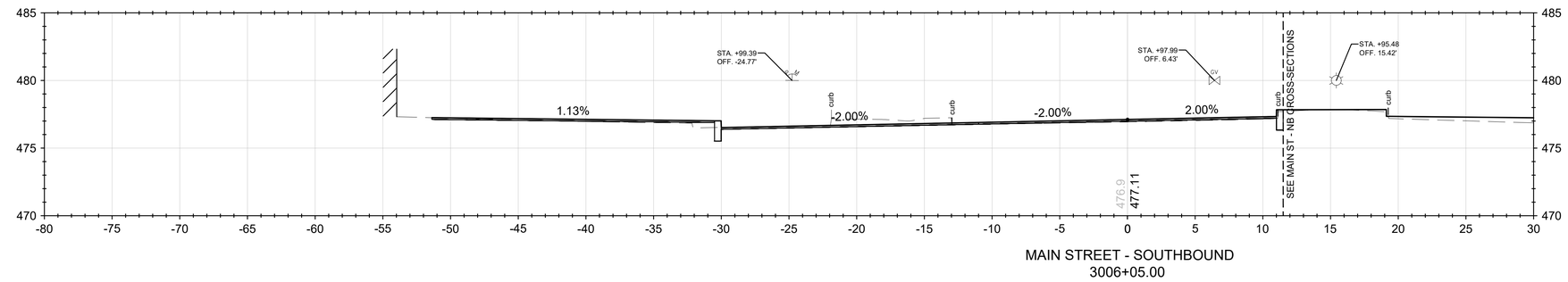


MAIN STREET - SOUTHBOUND
3006+50.00



MAIN STREET - SOUTHBOUND
3006+25.00



MAIN STREET - SOUTHBOUND
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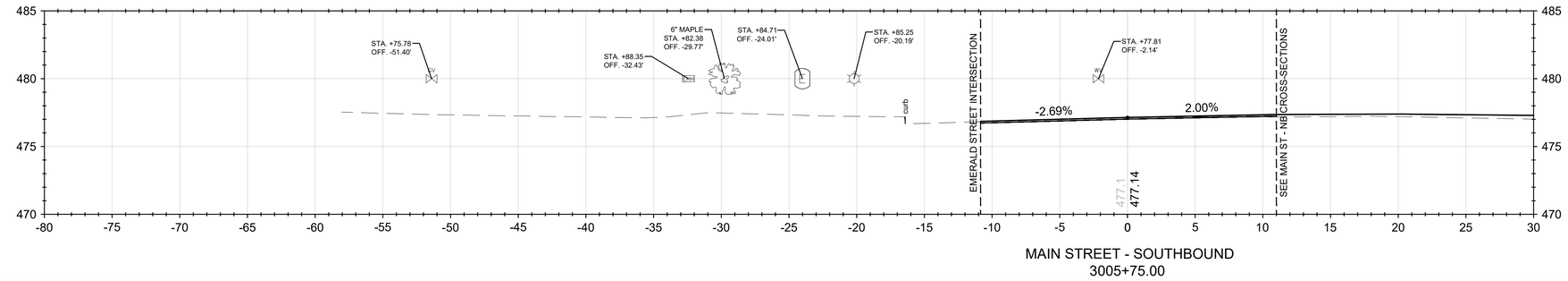

MAIN STREET - SOUTHBOUND
3005+75.00

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			2025-01-28 YYYY-MM-DD

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KEENE DOWNTOWN IMPROVEMENTS

KEENE, NEW HAMPSHIRE

Title
ROADWAY CROSS-SECTIONS
MAIN STREET - SOUTHBOUND

Project No.	Scale
179450806	1" = 5

Revision	Sheet	Drawing No.
-	203 of 232	XS-27

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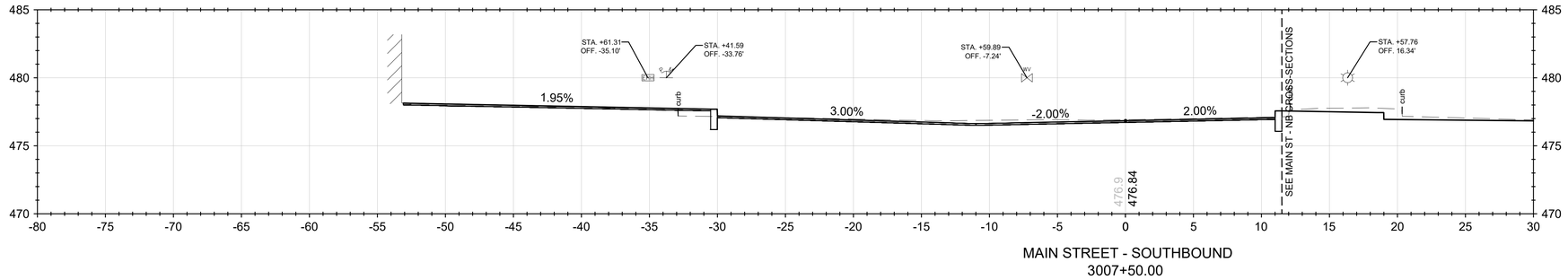
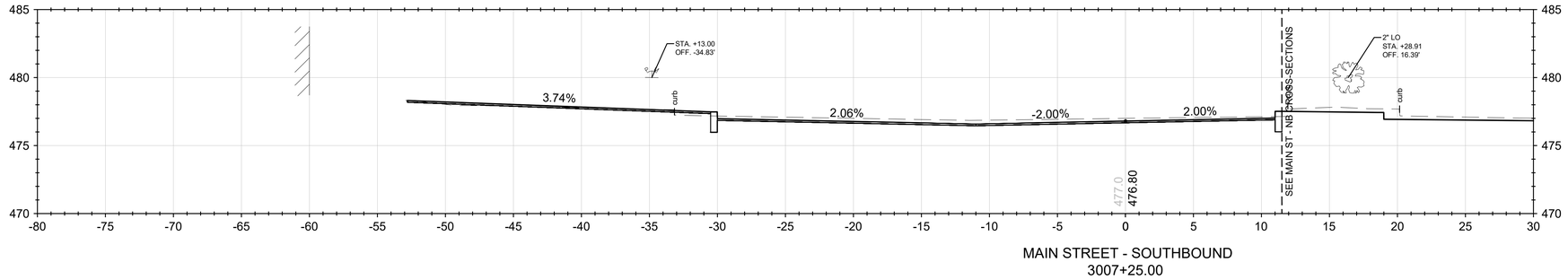


MAIN STREET - SOUTHBOUND
3007+50.00



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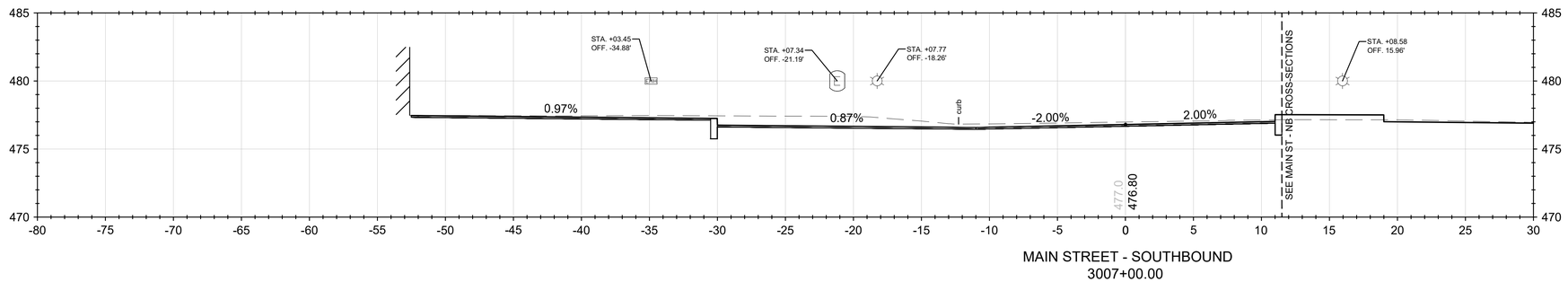
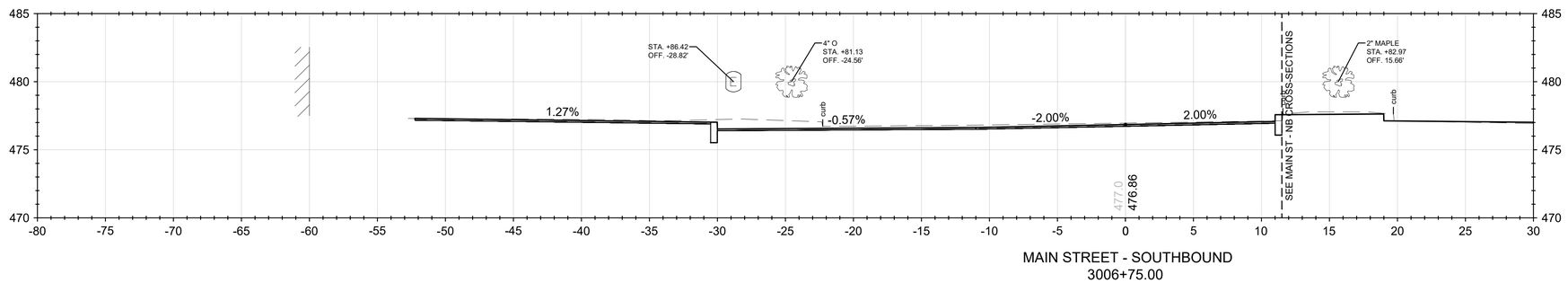


MAIN STREET - SOUTHBOUND
3007+00.00



MAIN STREET - SOUTHBOUND
3006+75.00

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File Name: 50806_XS - MAIN ST S - 01	TJG	TJG	DEM	2025-01-28
	Dwn.	Dsgn.	Chkd.	YYYY-MM-DD

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KEENE DOWNTOWN IMPROVEMENTS

KEENE, NEW HAMPSHIRE

Title
ROADWAY CROSS-SECTIONS
MAIN STREET - SOUTHBOUND

Project No.	Scale
179450806	1" = 5

Revision	Sheet	Drawing No.
-	204 of 232	XS-28

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2025.01.28 3:53:36 PM

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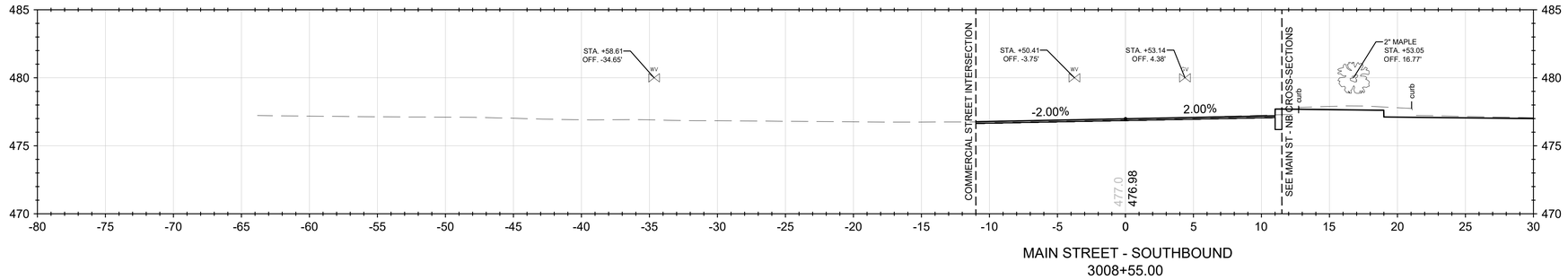
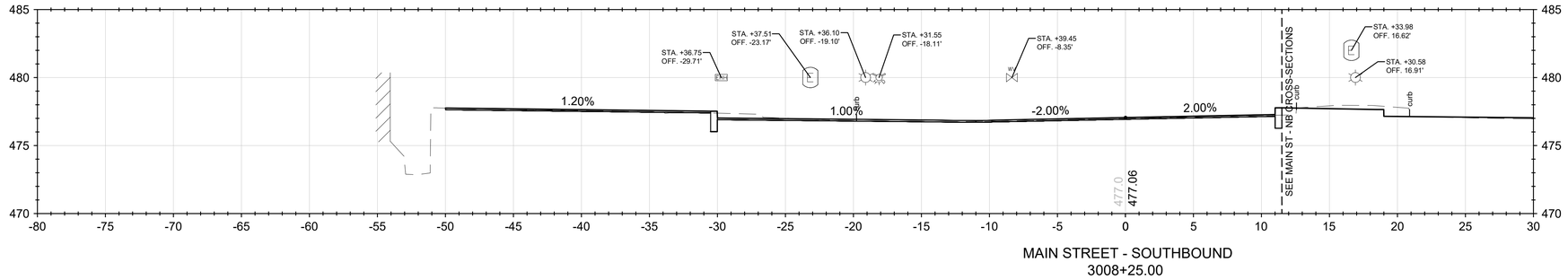


MAIN STREET - SOUTHBOUND
3008+55.00



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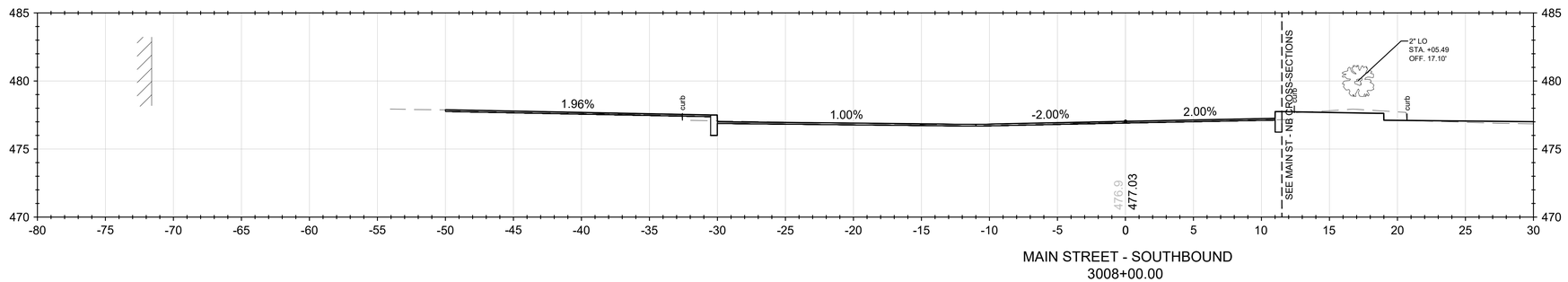
3008+25.00



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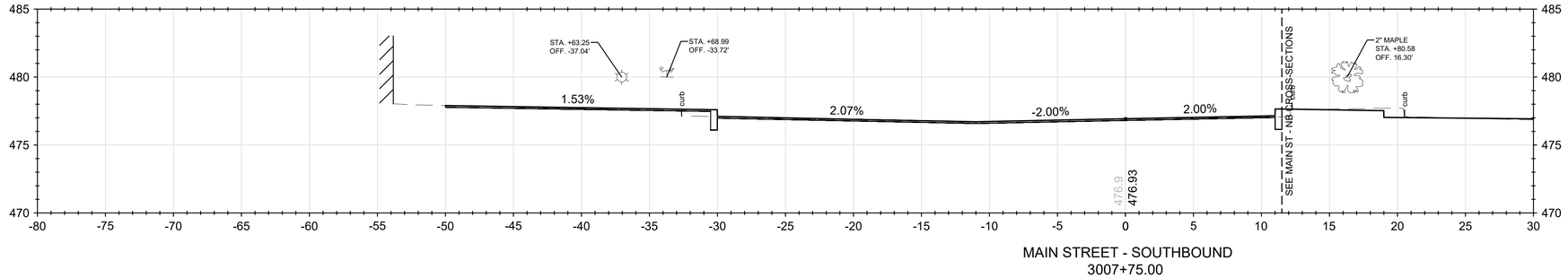
3008+00.00



MAIN STREET - SOUTHBOUND
3007+75.00

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Notes

Revision	By	Appd	YYYY-MM-DD
Issued	By	Appd	YYYY-MM-DD
File Name: 50806_XS - MAIN ST S - 01	TJG Dwn.	TJG Dsgn.	DEM Chkd.	2025-01-28 YYYY-MM-DD

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KEENE DOWNTOWN IMPROVEMENTS

KEENE, NEW HAMPSHIRE

Title
ROADWAY CROSS-SECTIONS
MAIN STREET - SOUTHBOUND

Project No.	Scale
179450806	1" = 5

Revision	Sheet	Drawing No.
-	205 of 232	XS-29

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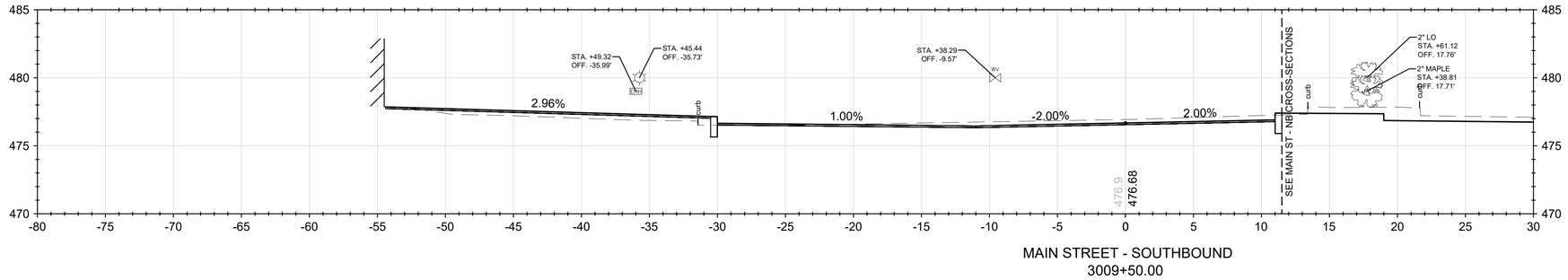

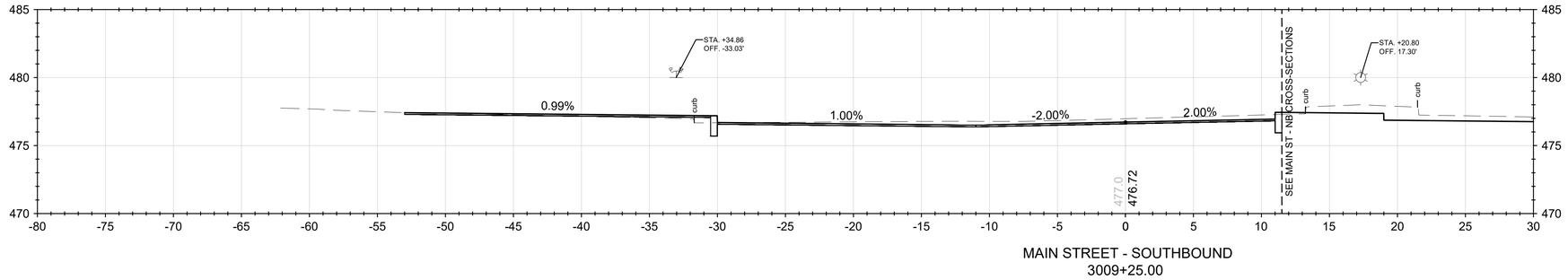

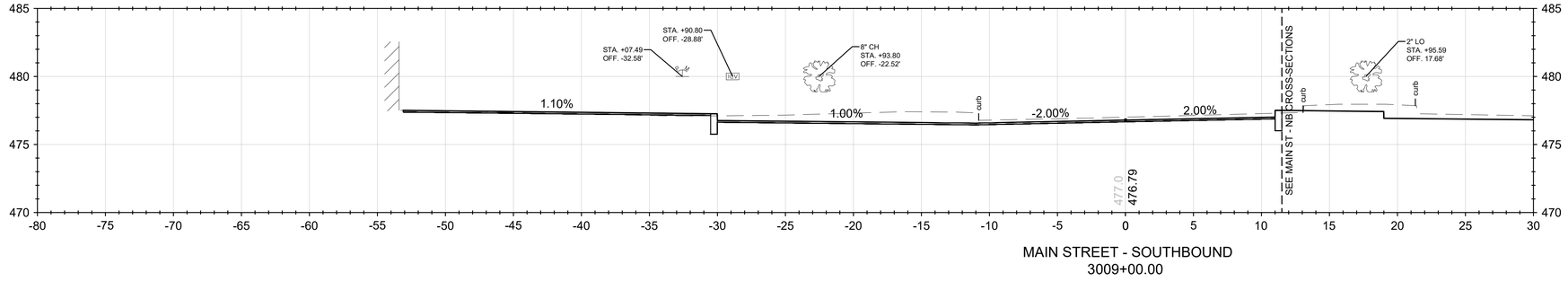

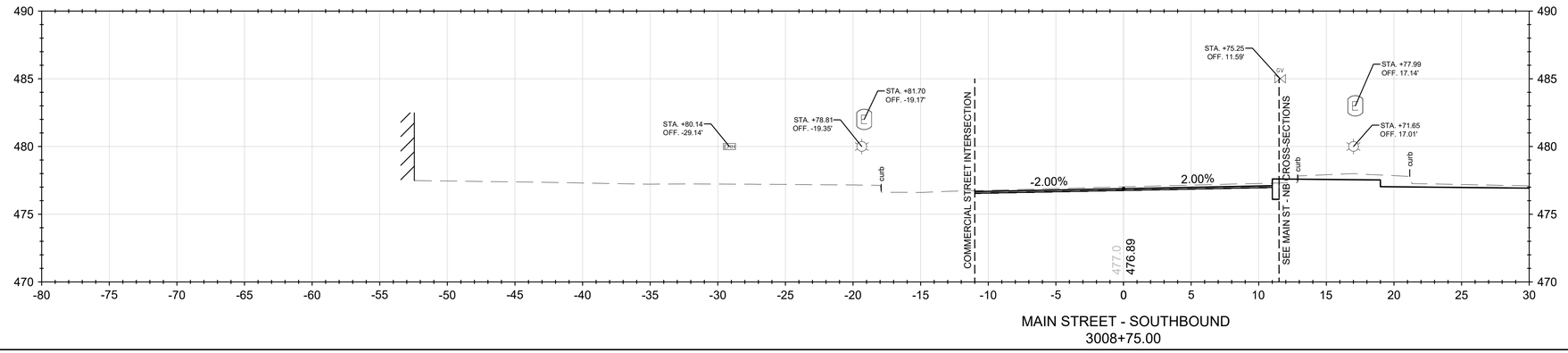

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File Name: 50806_XS - MAIN ST S - 01	TJG Dwn.	TJG Dsgn.	DEM Chkd.	2025-01-28 YYYY-MM-DD

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KEENE, NEW HAMPSHIRE

Title
ROADWAY CROSS-SECTIONS
MAIN STREET - SOUTHBOUND

Project No.	Scale
179450806	1" = 5

Revision	Sheet	Drawing No.
-	206 of 232	XS-30

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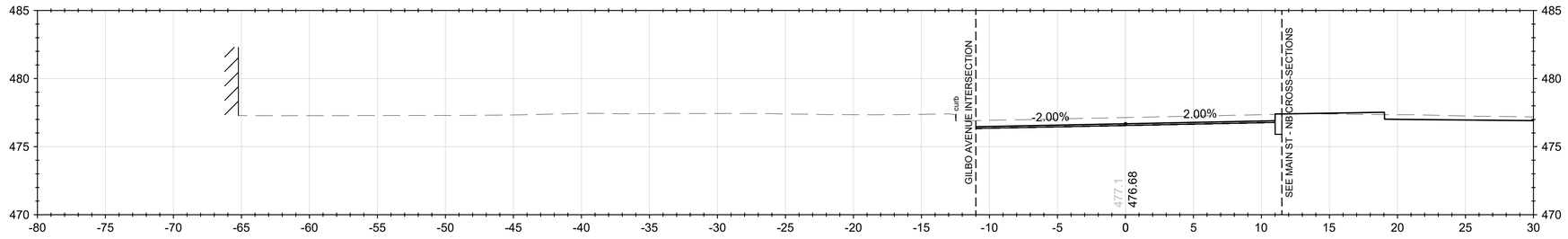

MAIN STREET - SOUTHBOUND
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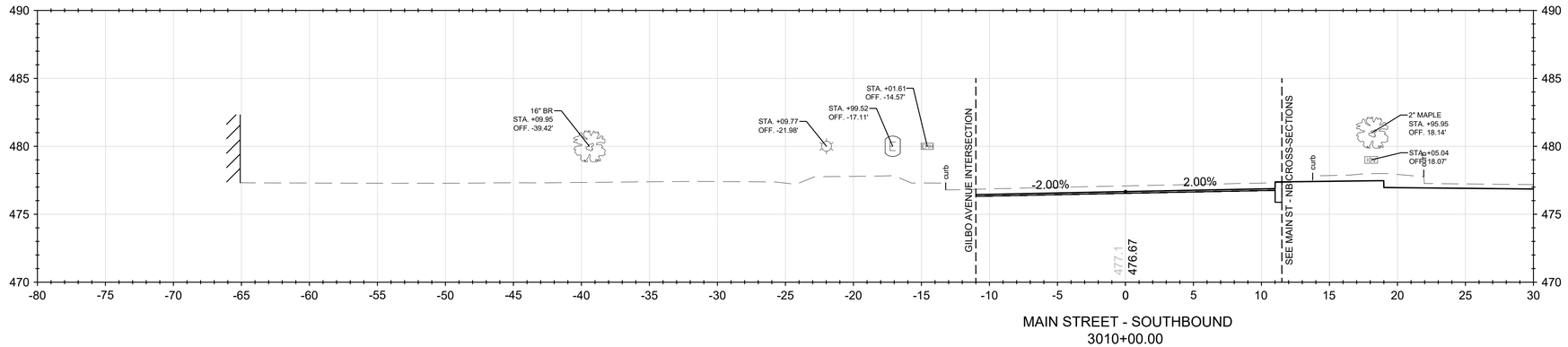

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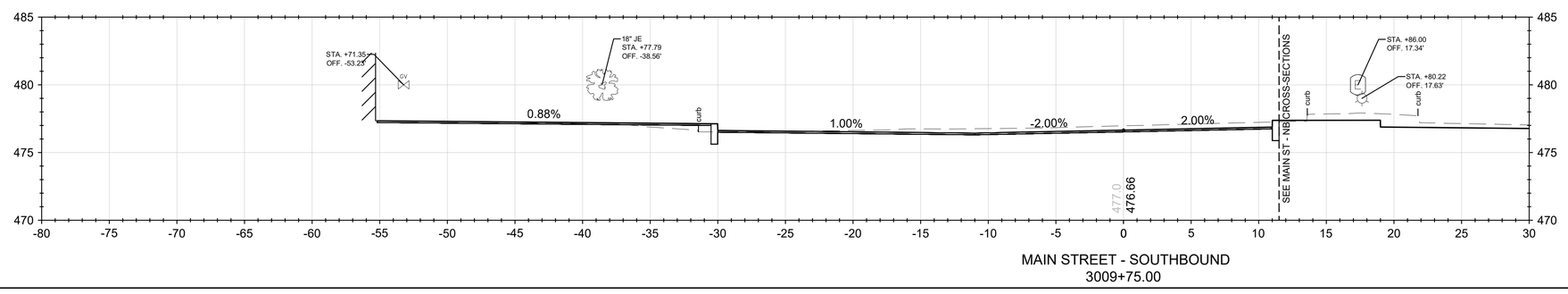

MAIN STREET - SOUTHBOUND
3009+75.00

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Revision	By	Appd	YYYY-MM-DD
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File Name: 50806_XS - MAIN ST S - 01	TJG Dwn.	TJG Dsgn.	DEM Chkd.	2025-01-28

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KEENE, NEW HAMPSHIRE

Title
ROADWAY CROSS-SECTIONS
MAIN STREET - SOUTHBOUND

Project No.	Scale
179450806	1" = 5

Revision	Sheet	Drawing No.
-	207 of 232	XS-31

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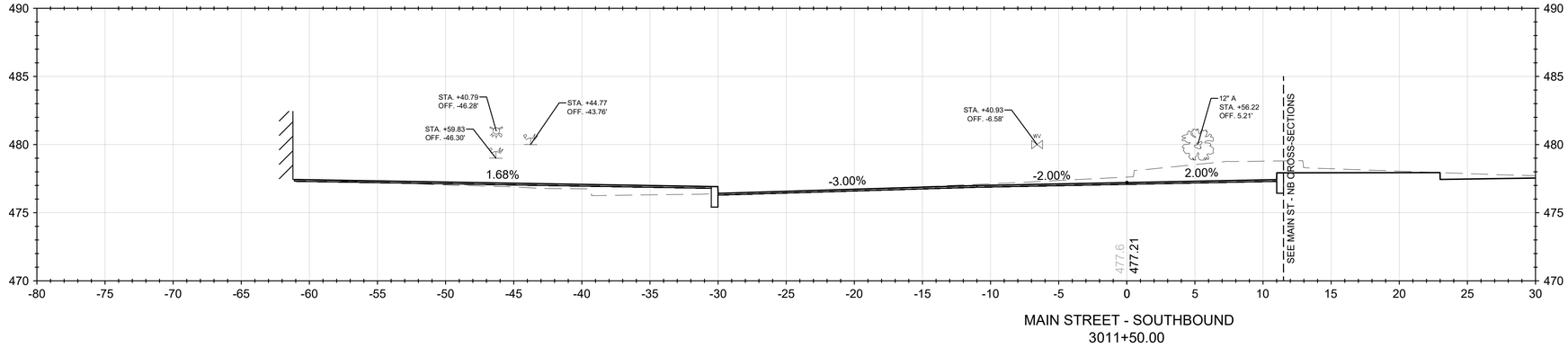
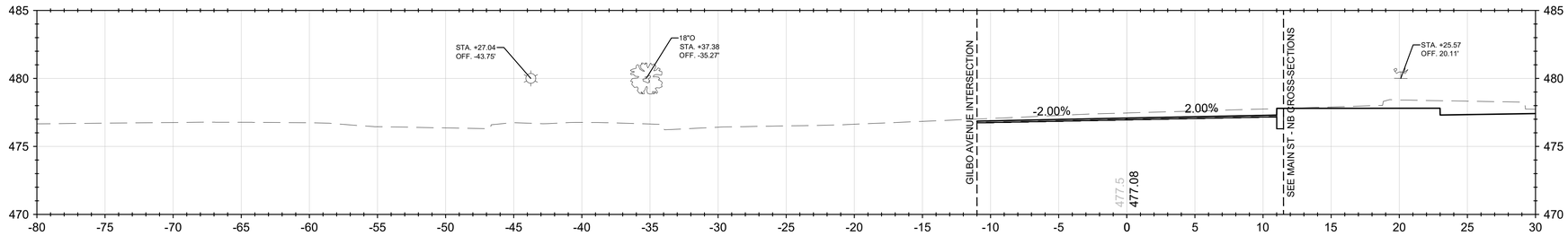
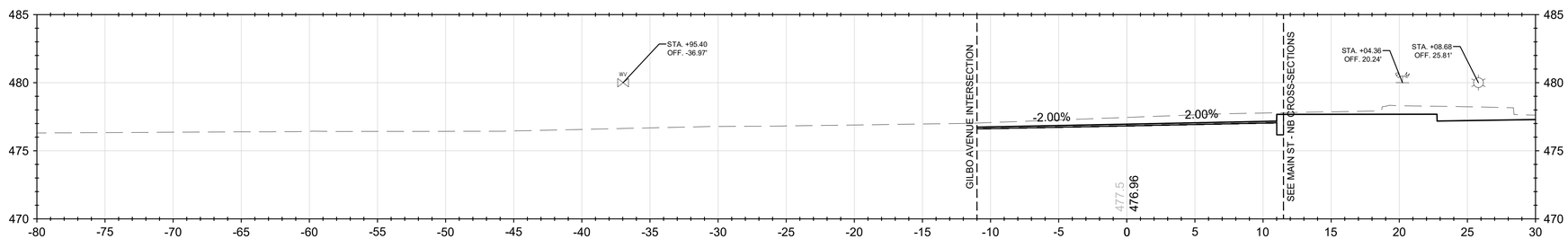


MAIN STREET - SOUTHBOUND
3011+50.00



MAIN STREET - SOUTHBOUND
3011+25.00



MAIN STREET - SOUTHBOUND
3011+00.00

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Title
ROADWAY CROSS-SECTIONS
MAIN STREET - SOUTHBOUND

Project No.	Scale
179450806	1" = 5

Revision	Sheet	Drawing No.
-	208 of 232	XS-32

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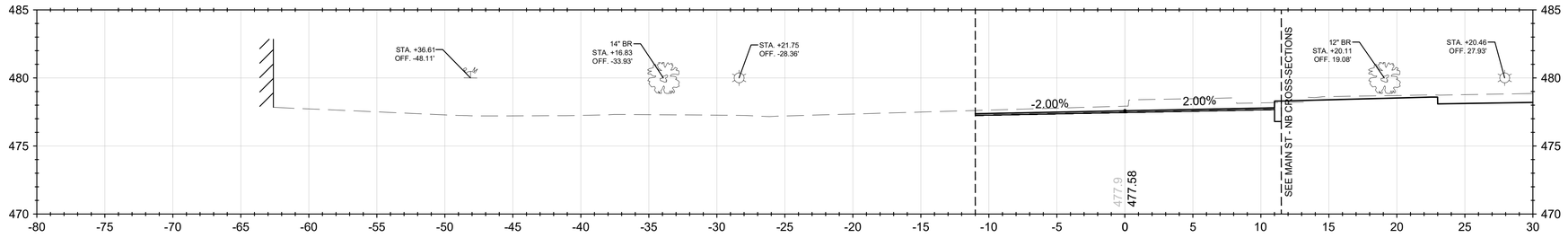

MAIN STREET - SOUTHBOUND
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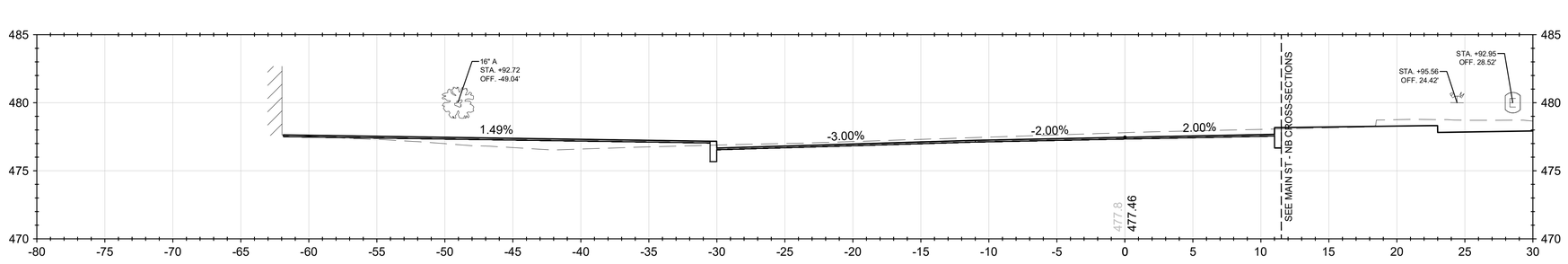

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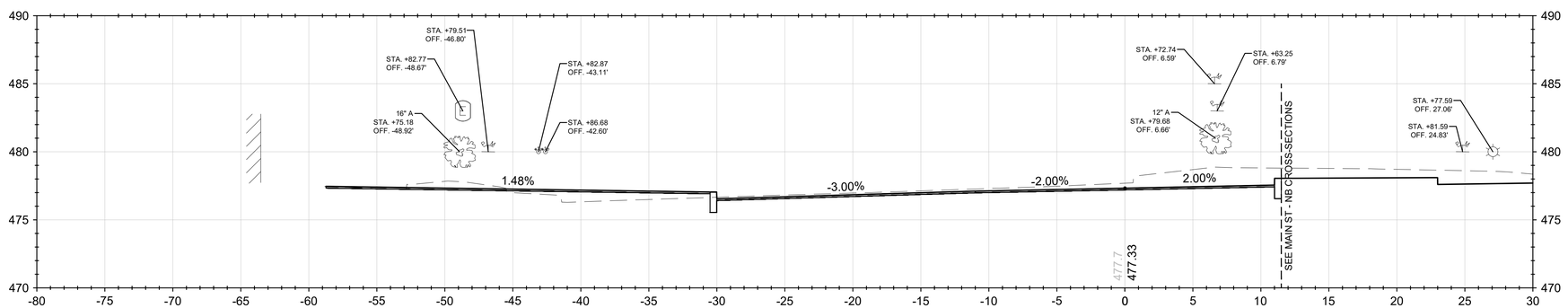

MAIN STREET - SOUTHBOUND
3011+75.00

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Title
ROADWAY CROSS-SECTIONS
MAIN STREET - SOUTHBOUND

Project No.	Scale
179450806	1" = 5

Revision	Sheet	Drawing No.
-	209 of 232	XS-33

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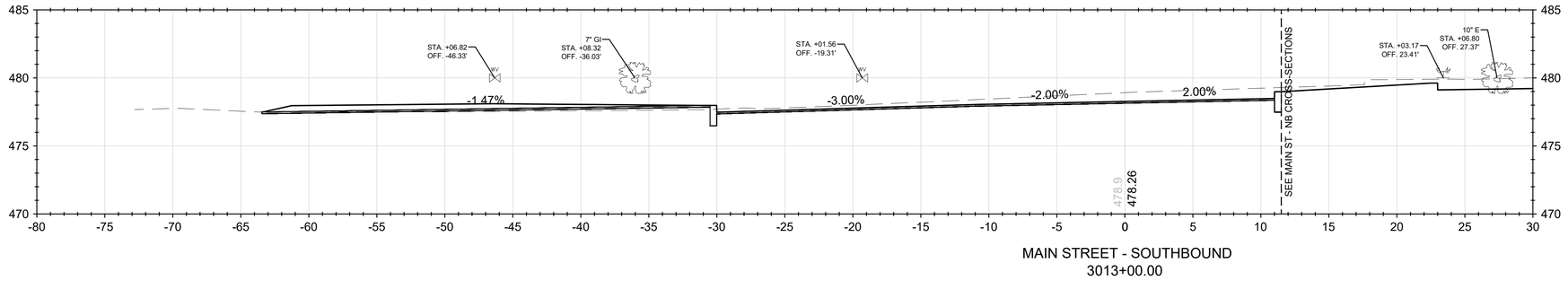

MAIN STREET - SOUTHBOUND
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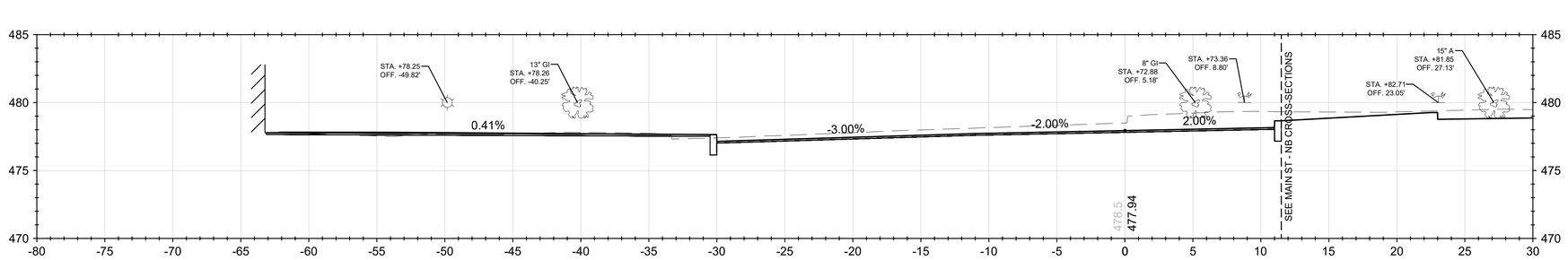

MAIN STREET - SOUTHBOUND
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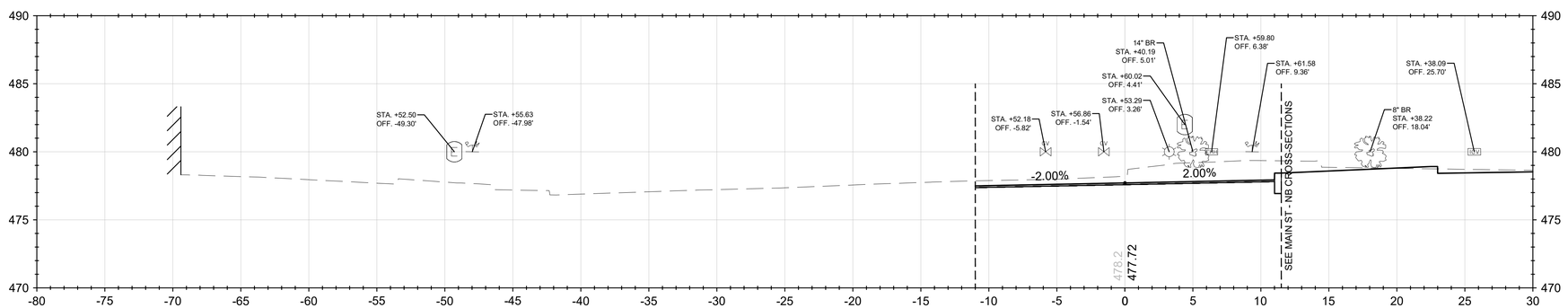

MAIN STREET - SOUTHBOUND
3012+50.00

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KEENE, NEW HAMPSHIRE

Title
ROADWAY CROSS-SECTIONS
MAIN STREET - SOUTHBOUND

Project No.	Scale
179450806	1" = 5

Revision	Sheet	Drawing No.
-	210 of 232	XS-34

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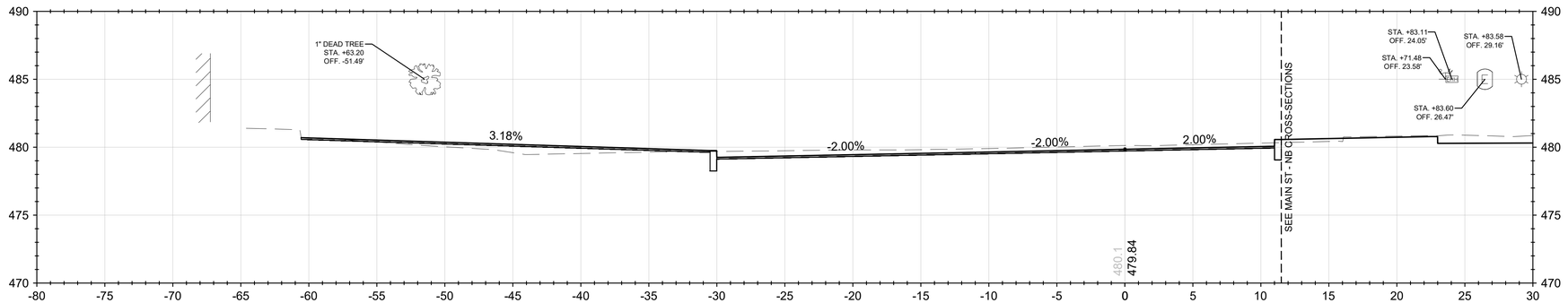

MAIN STREET - SOUTHBOUND
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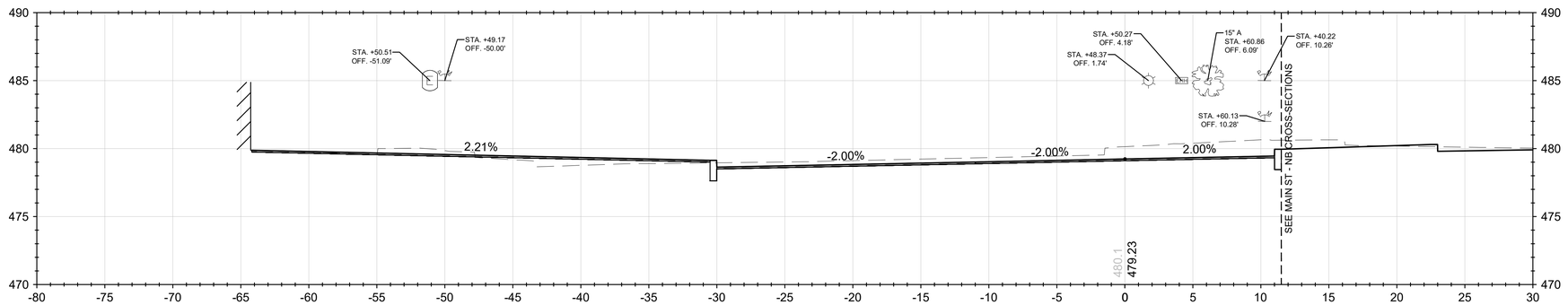

MAIN STREET - SOUTHBOUND
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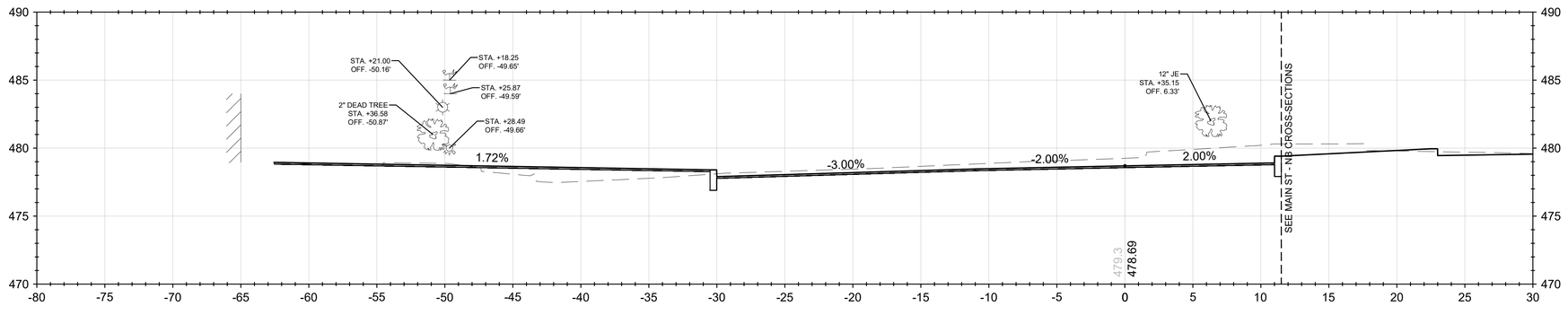

MAIN STREET - SOUTHBOUND
3013+25.00

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KEENE, NEW HAMPSHIRE

Title
ROADWAY CROSS-SECTIONS
MAIN STREET - SOUTHBOUND

Project No.	Scale
179450806	1" = 5
Revision: -	Sheet: 211 of 232
Drawing No.	**XS-35**

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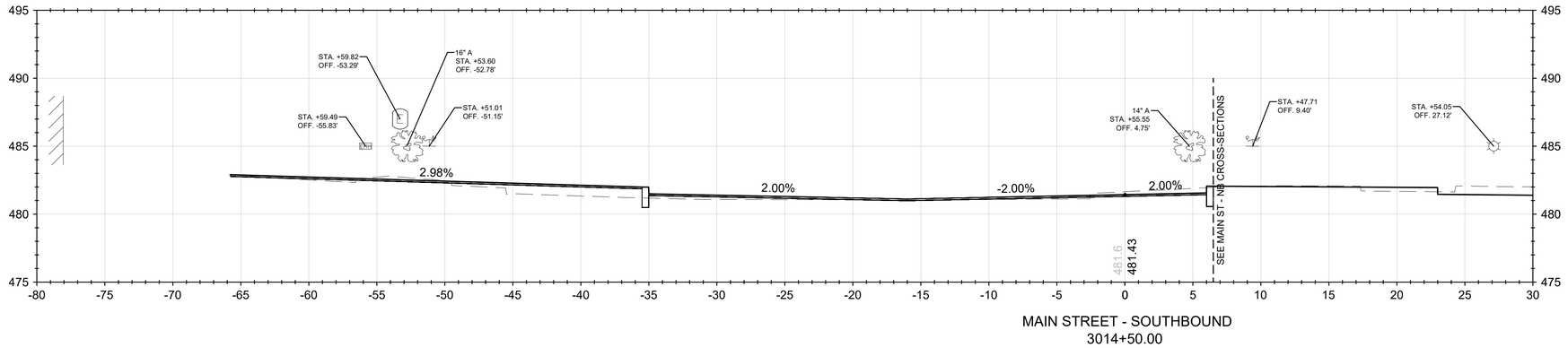
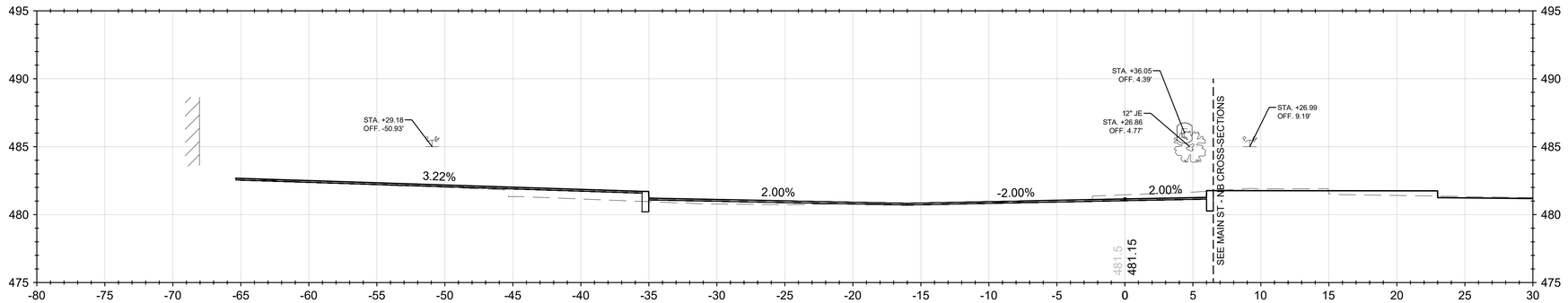
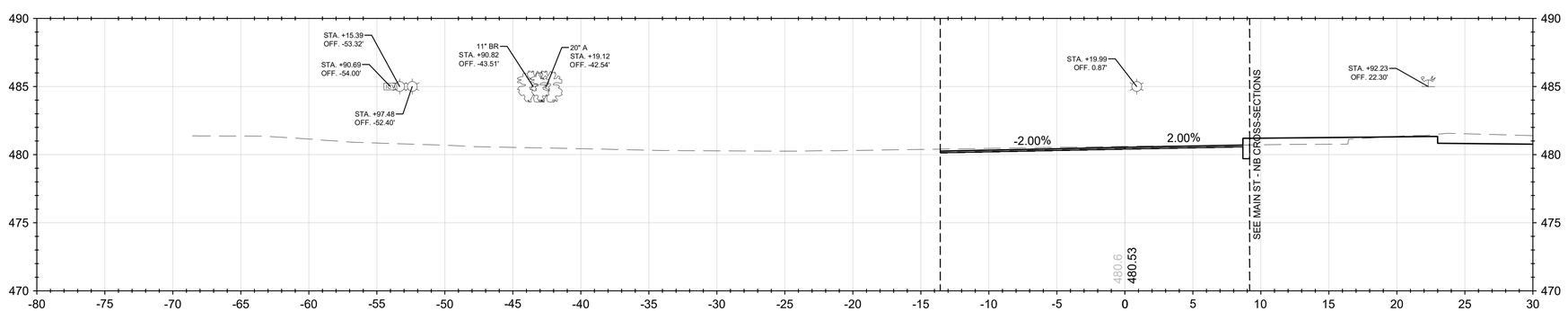


MAIN STREET - SOUTHBOUND
3014+50.00



MAIN STREET - SOUTHBOUND
3014+35.00



MAIN STREET - SOUTHBOUND
3014+05.00

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KEENE, NEW HAMPSHIRE

Title
ROADWAY CROSS-SECTIONS
MAIN STREET - SOUTHBOUND

Project No.	Scale
179450806	1" = 5

Revision	Sheet	Drawing No.
-	212 of 232	XS-36

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2025.01.28 3:34:16 PM

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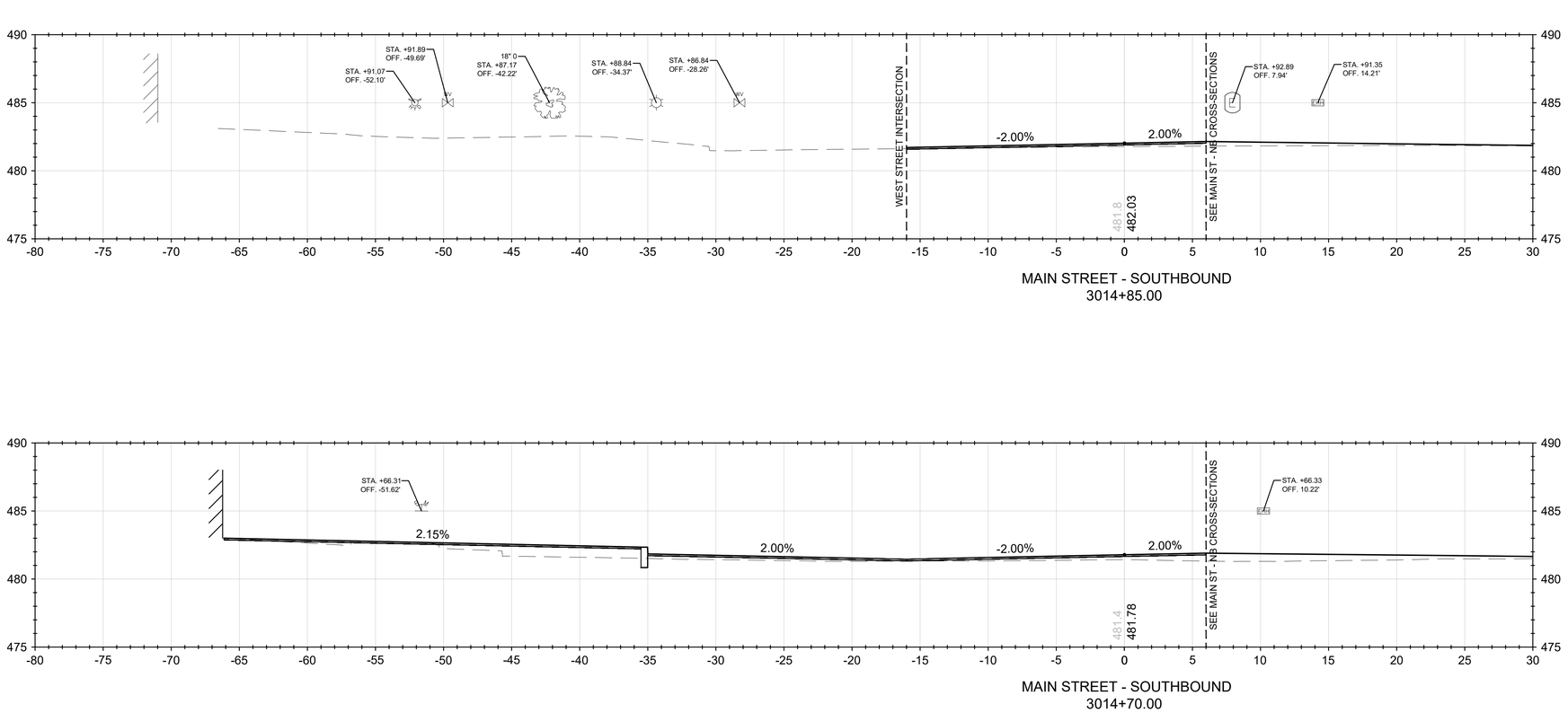

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Title
ROADWAY CROSS-SECTIONS
MAIN STREET - SOUTHBOUND

Project No.	Scale
179450806	1" = 5

Revision	Sheet	Drawing No.
-	213 of 232	XS-37

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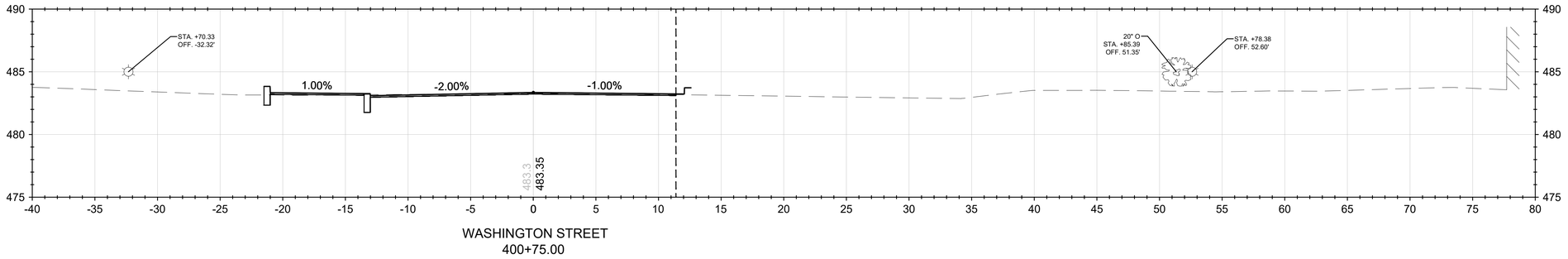
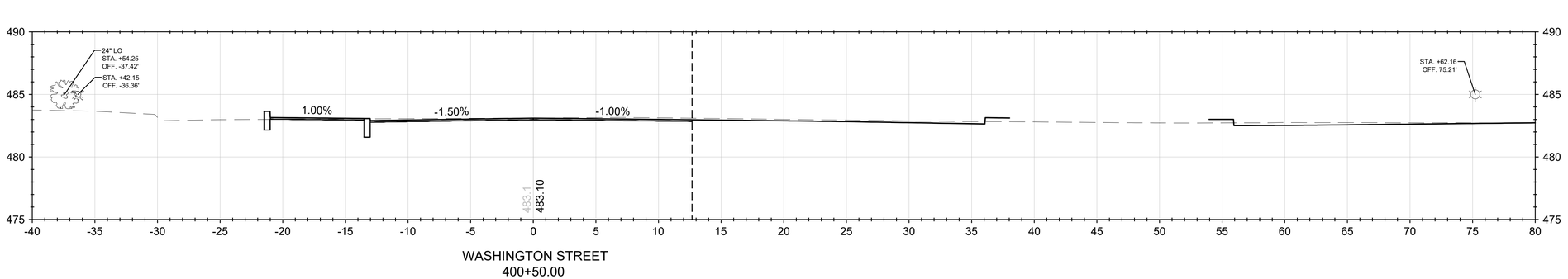
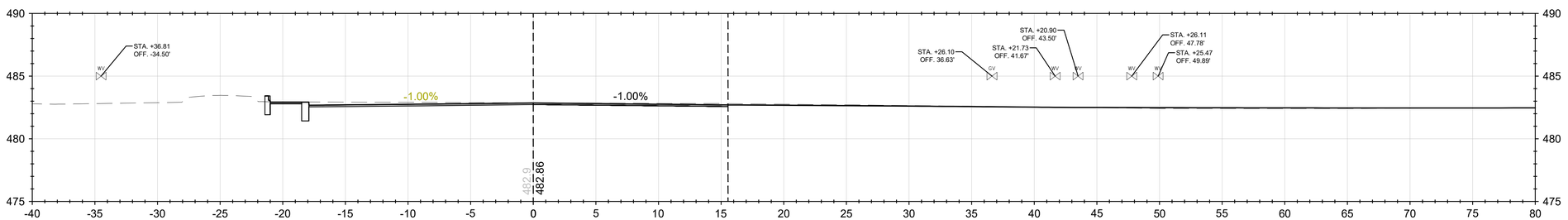


WASHINGTON STREET
400+75.00



WASHINGTON STREET
400+50.00



WASHINGTON STREET
400+25.00

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Title

Project No.	Scale
179450806	
Revision Sheet	Drawing No.
of 232	

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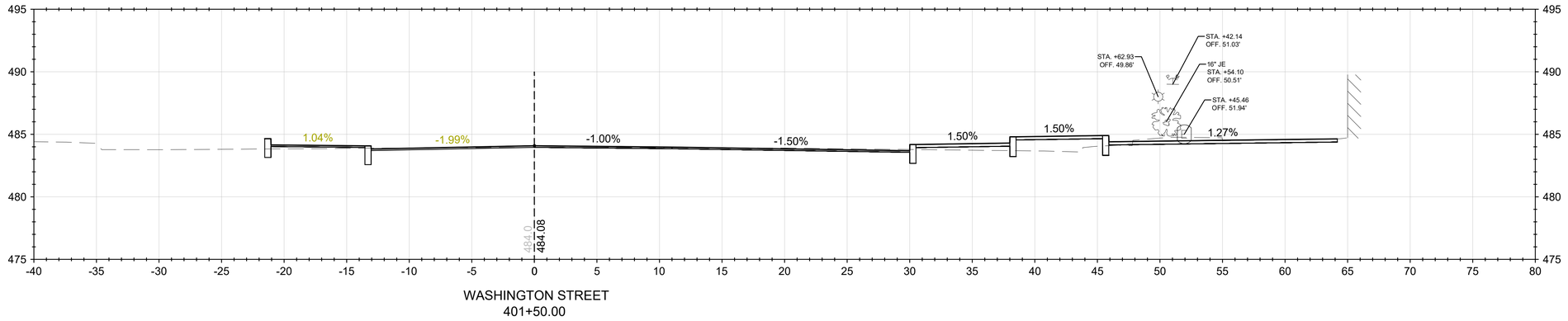

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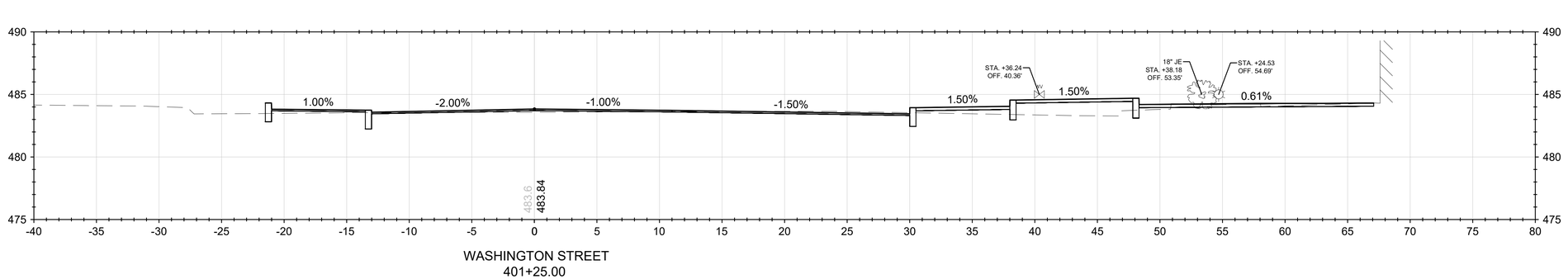

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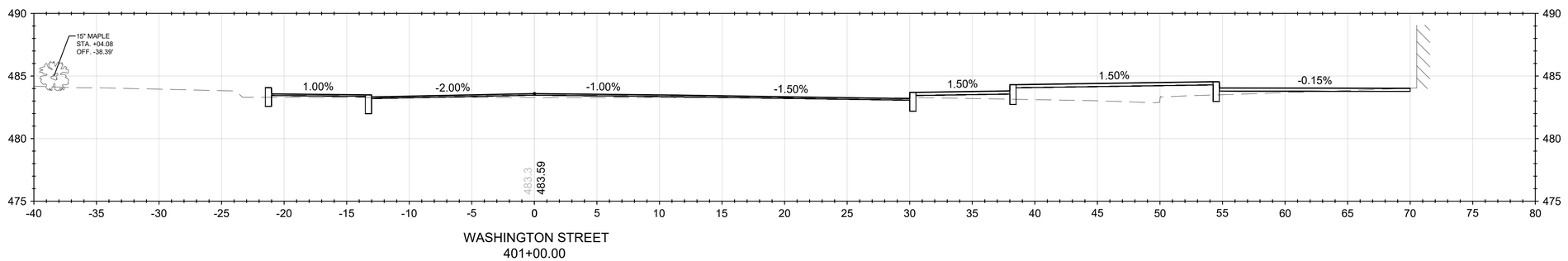

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KEENE DOWNTOWN IMPROVEMENTS

KEENE, NEW HAMPSHIRE

Title

Project No.
179450806

Scale

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Drawing No.

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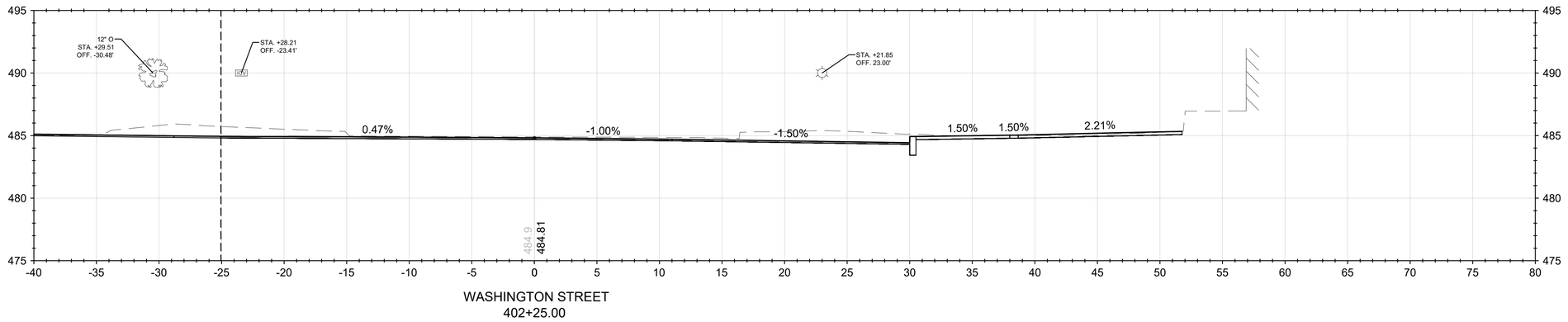

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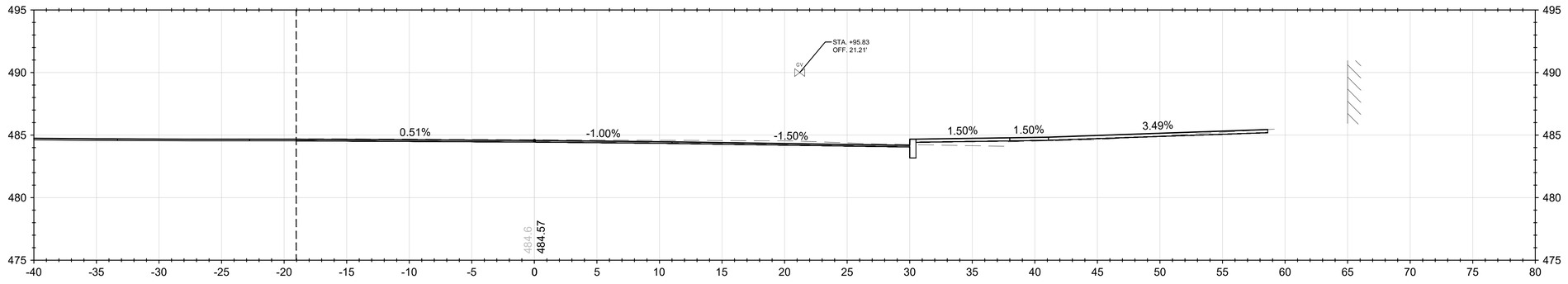

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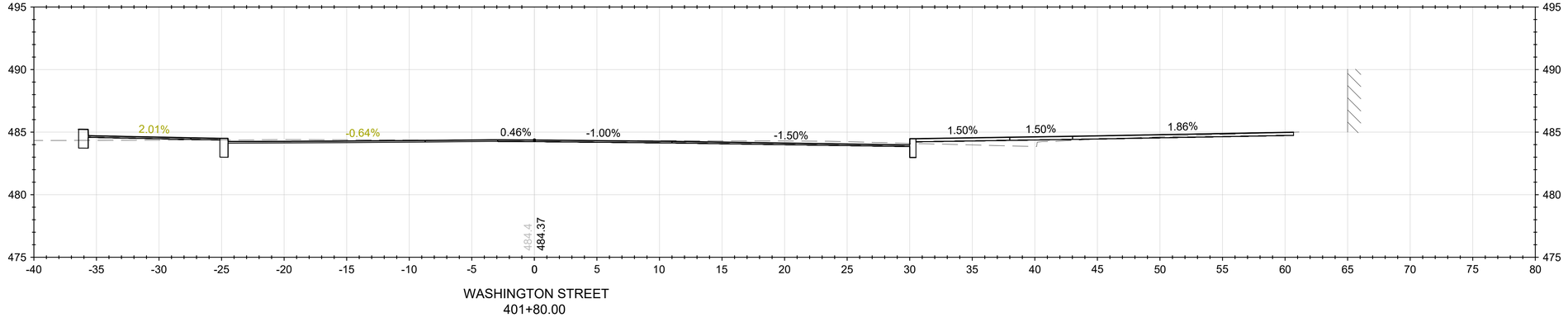

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KEENE, NEW HAMPSHIRE

Title

Project No.	Scale
179450806	

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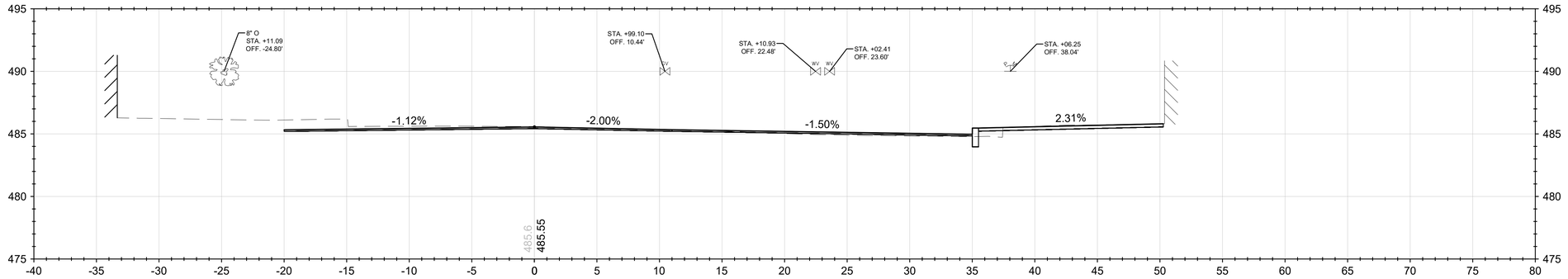

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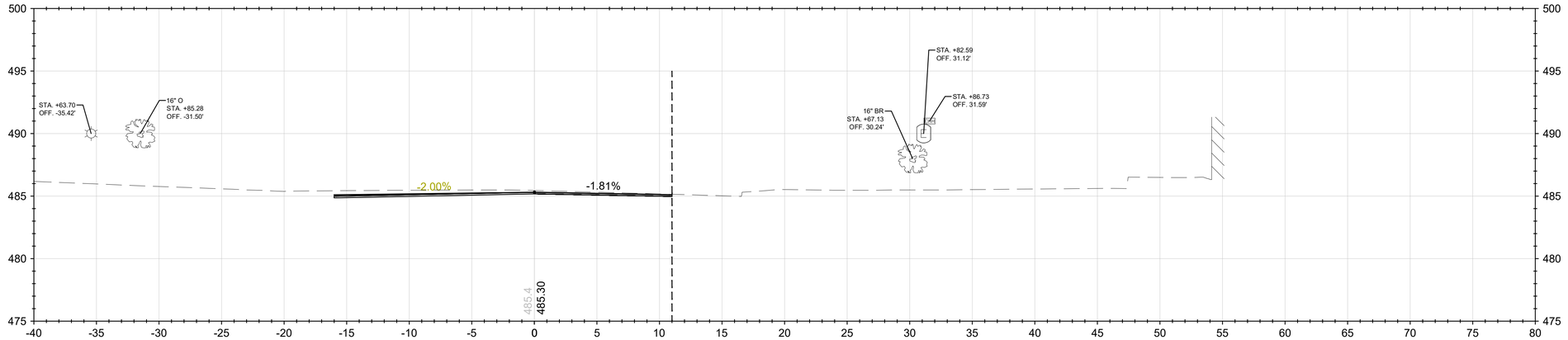

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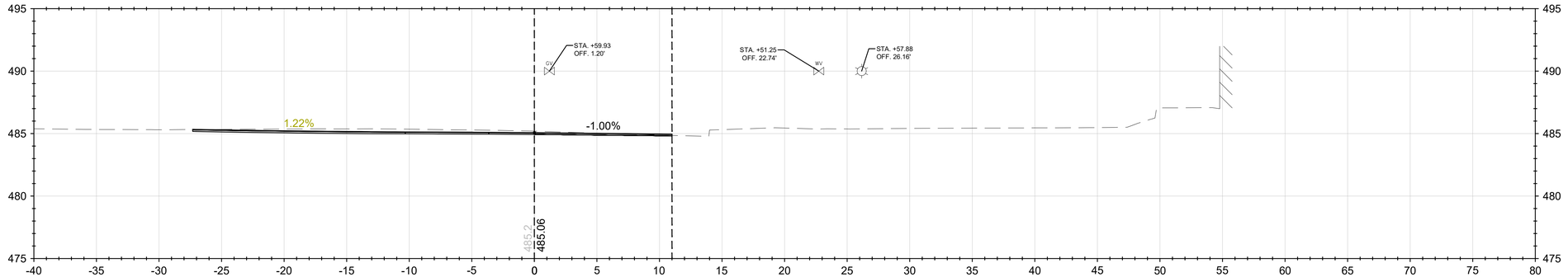

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KEENE, NEW HAMPSHIRE

Title

Project No.
179450806

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of 232

Drawing No.

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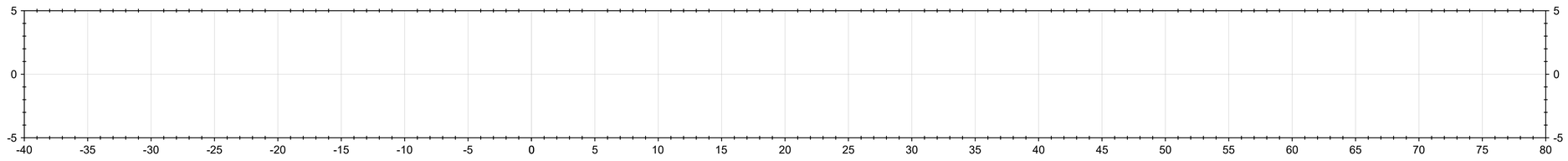

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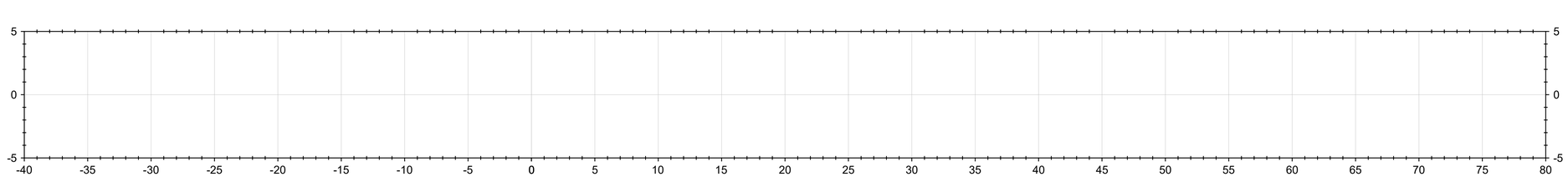

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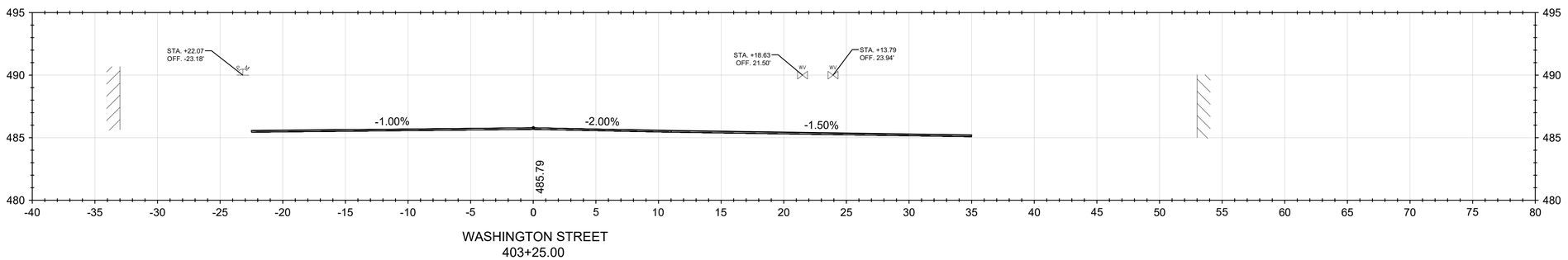

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KEENE, NEW HAMPSHIRE

Title

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179450806

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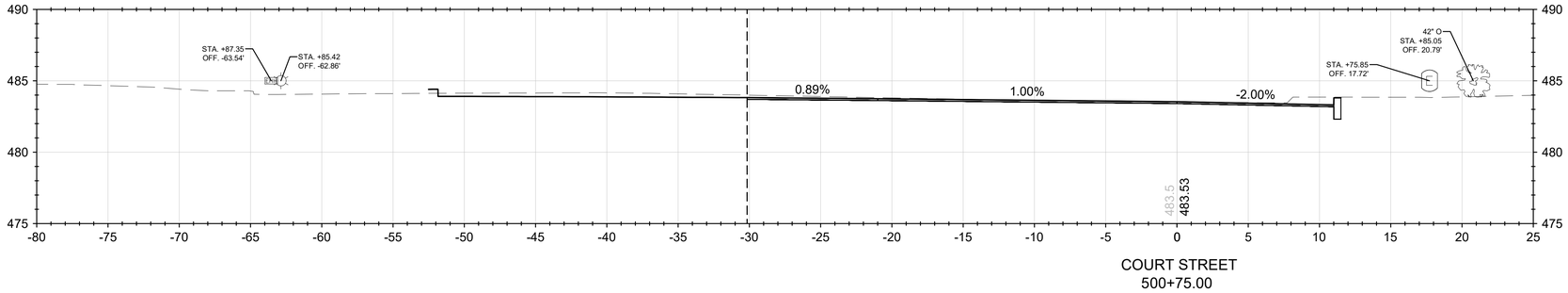

COURT STREET
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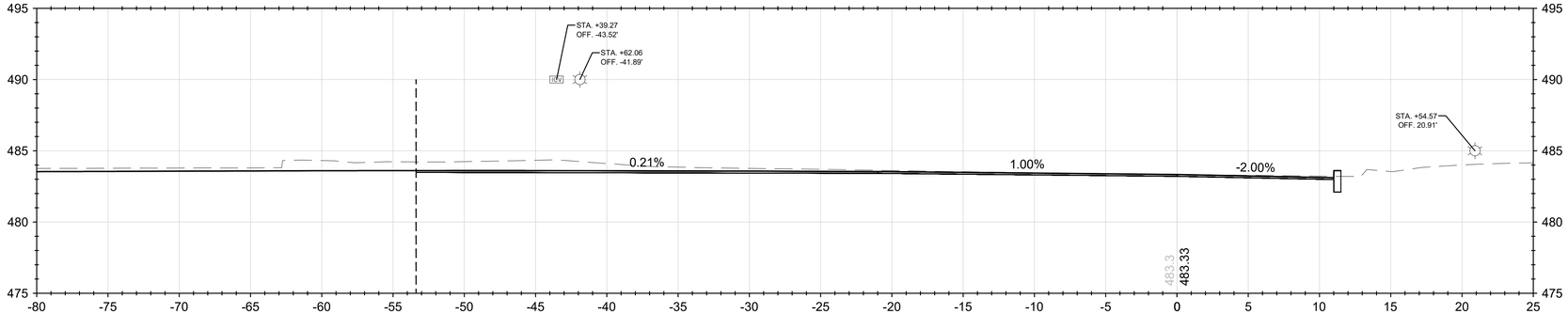

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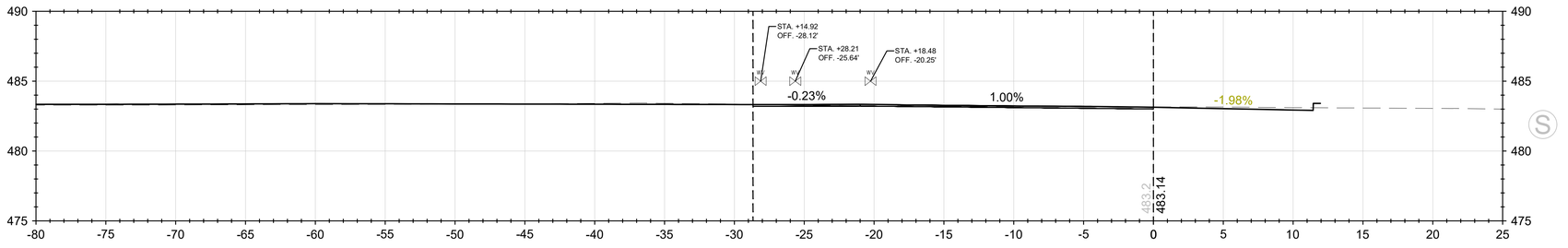

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Title

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179450806

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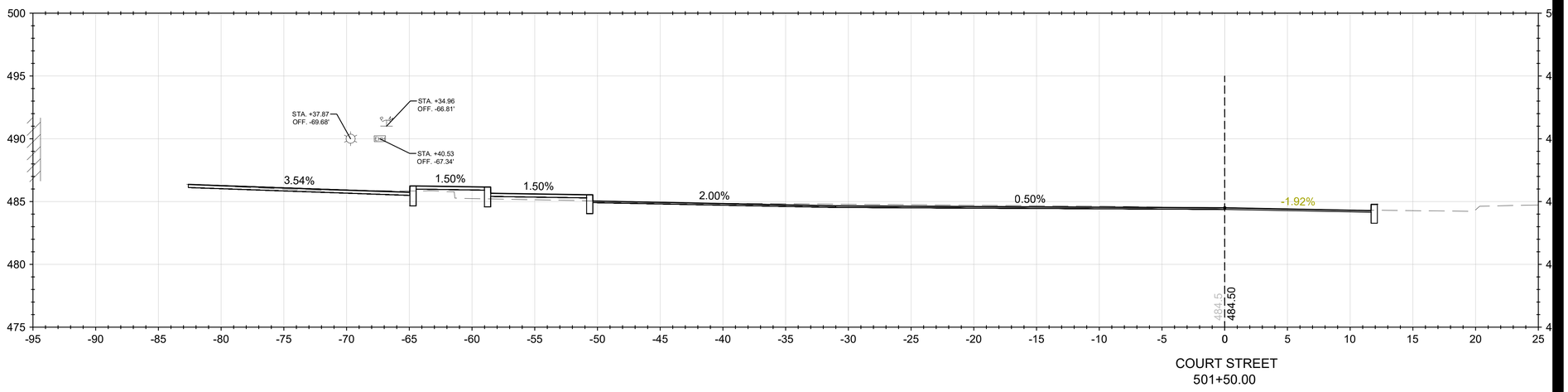

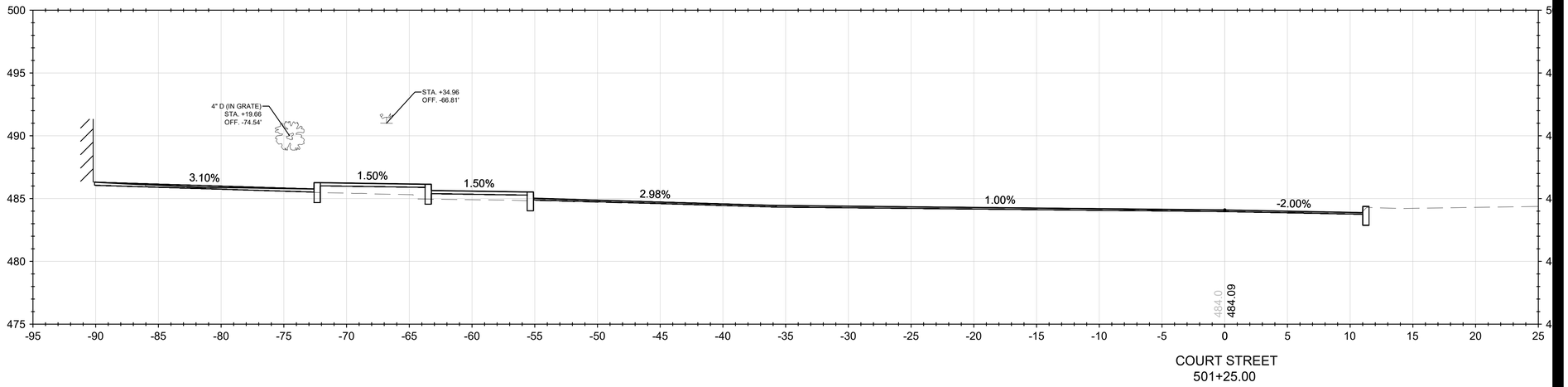

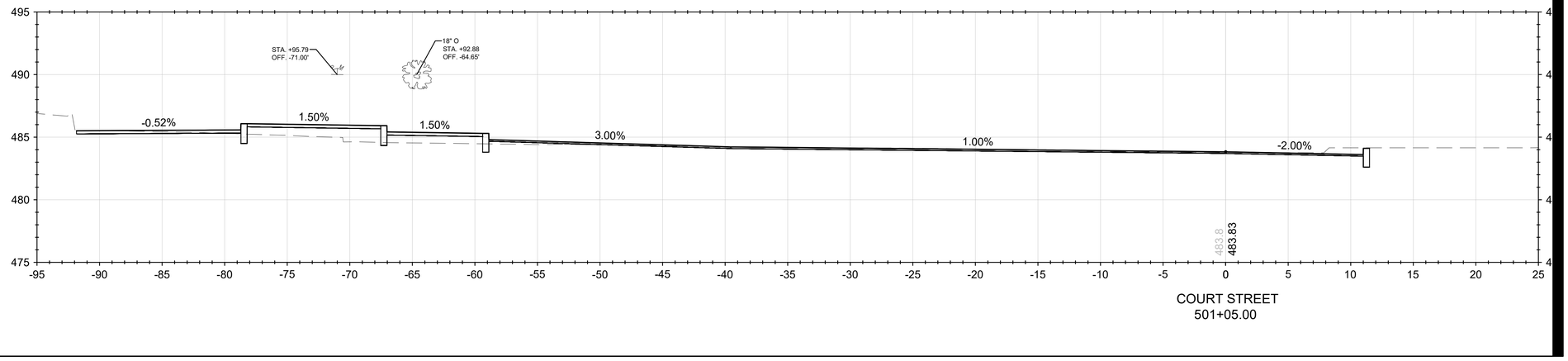

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179450806

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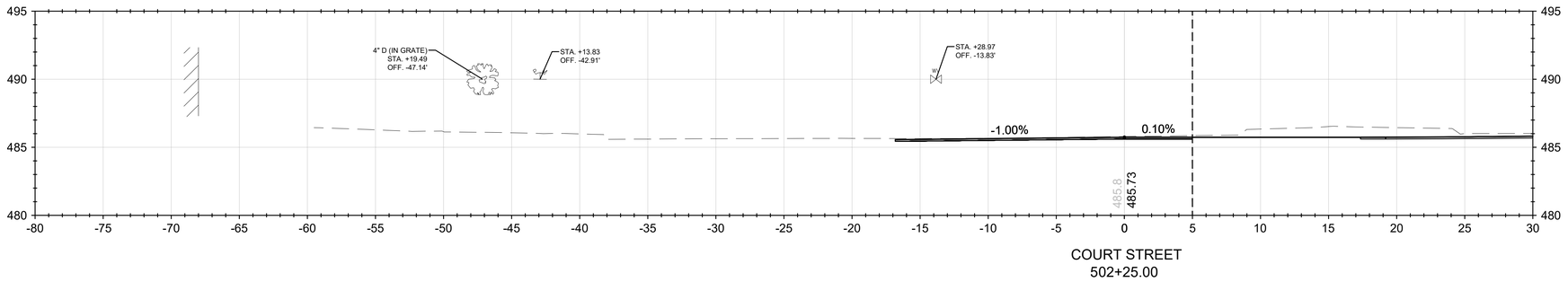

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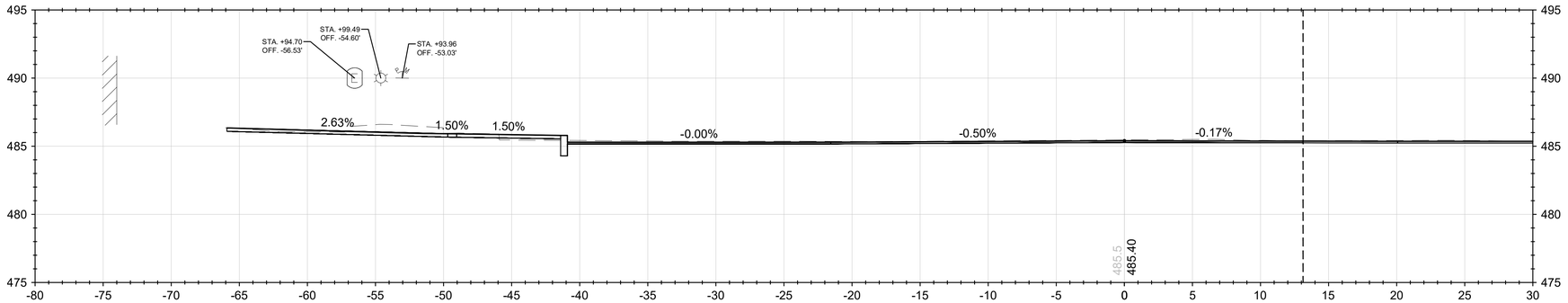

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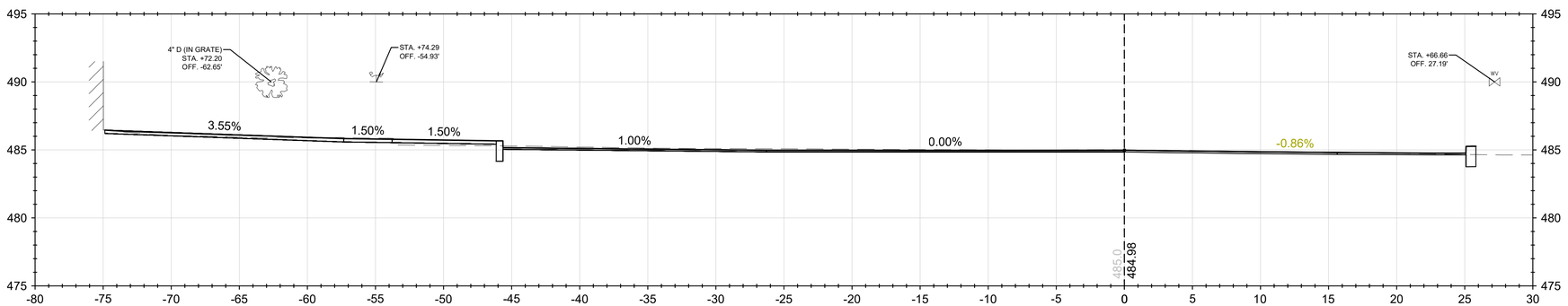

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KEENE, NEW HAMPSHIRE

Title

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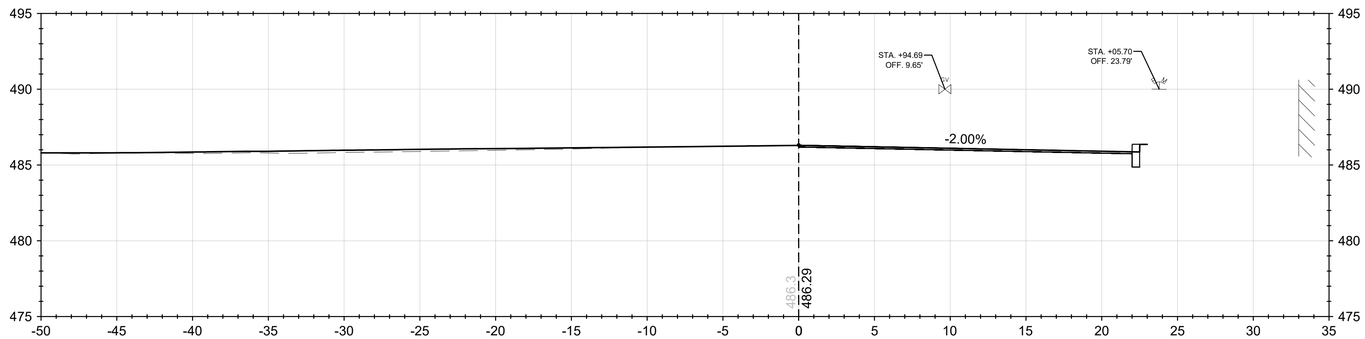

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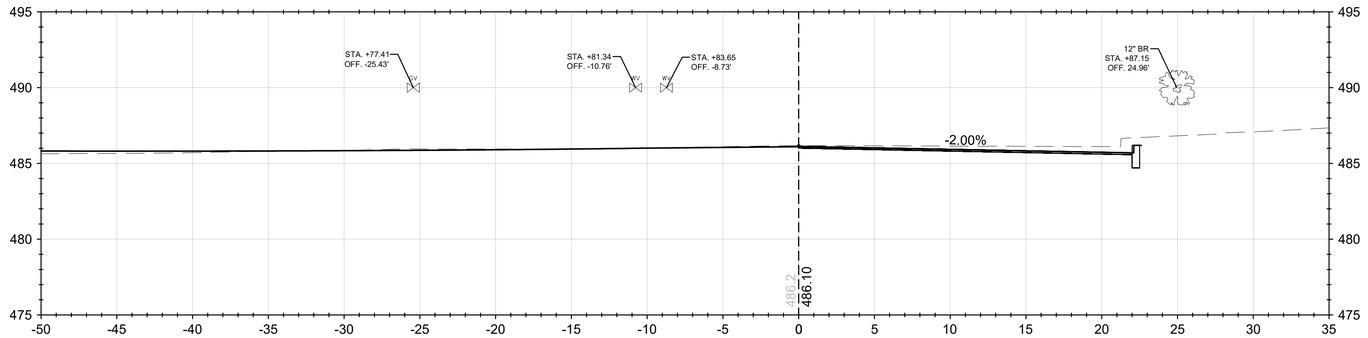

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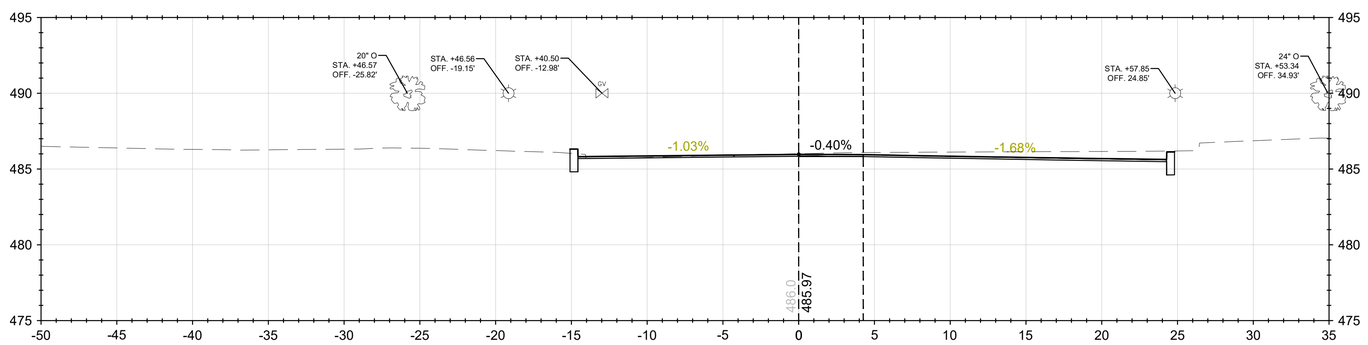

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KEENE, NEW HAMPSHIRE

Title

Project No. 179450806

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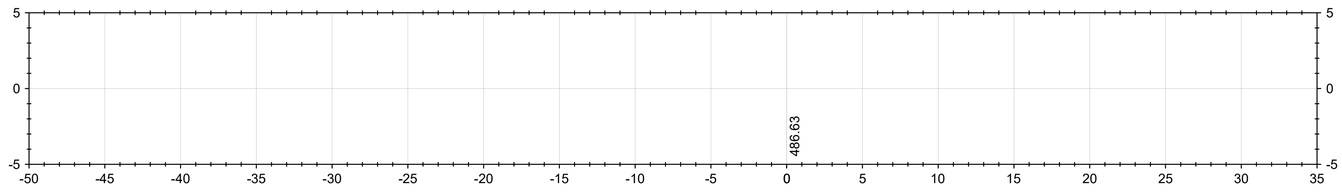

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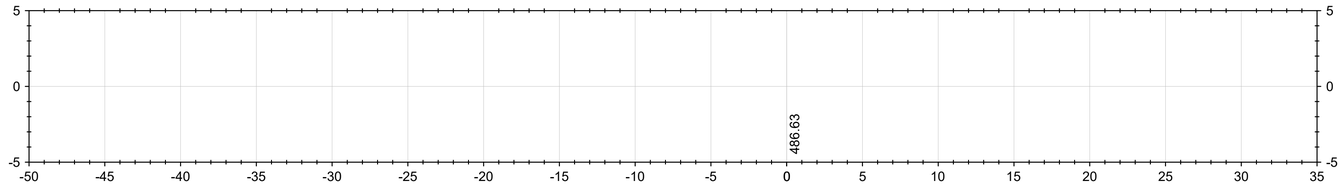

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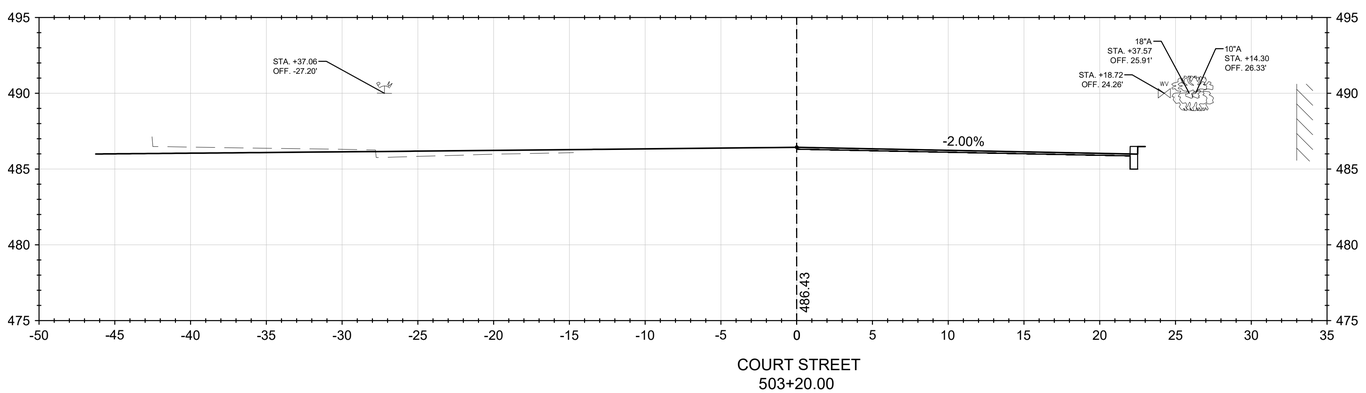

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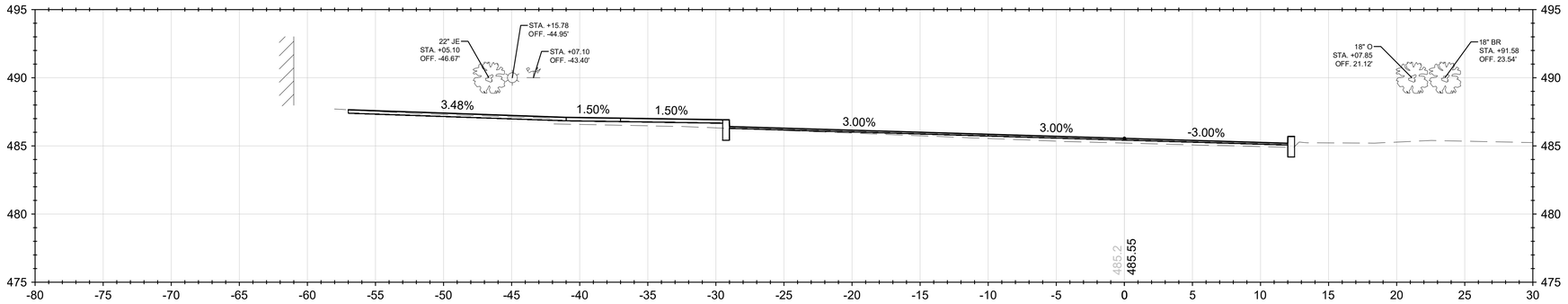

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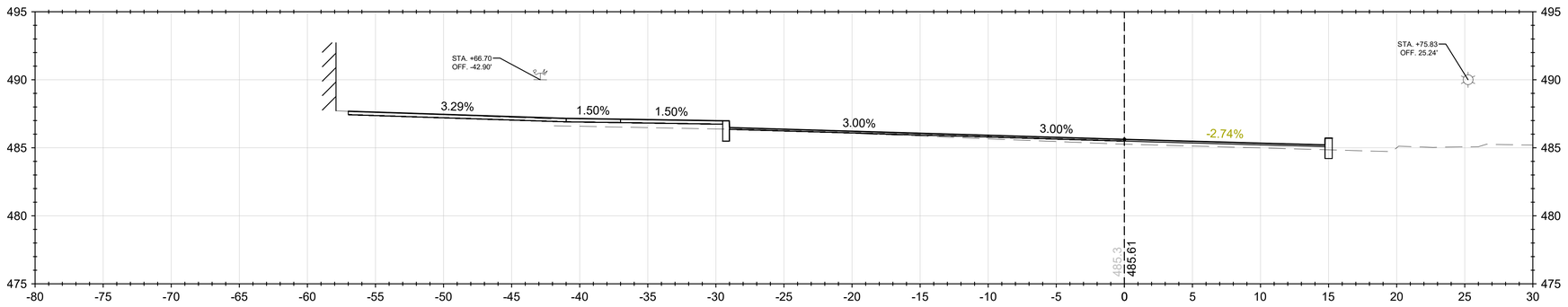

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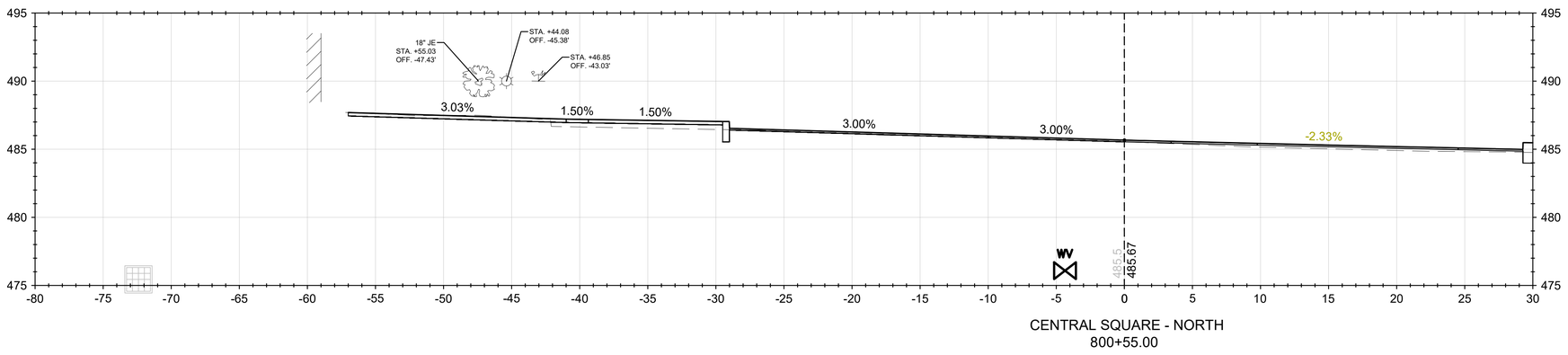

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File Name: 50806_XS - CENTRAL SQ	Dwn.	Dsgn.	Chkd.	2025-01-28 YYYY-MM-DD

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CITY OF KEENE

KEENE DOWNTOWN IMPROVEMENTS

KEENE, NEW HAMPSHIRE

Title

Project No.	Scale
179450806	

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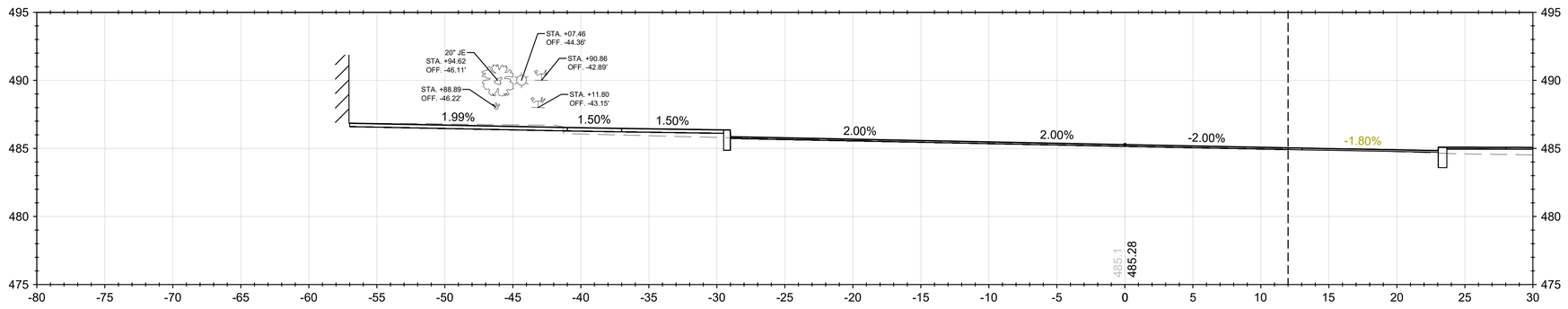

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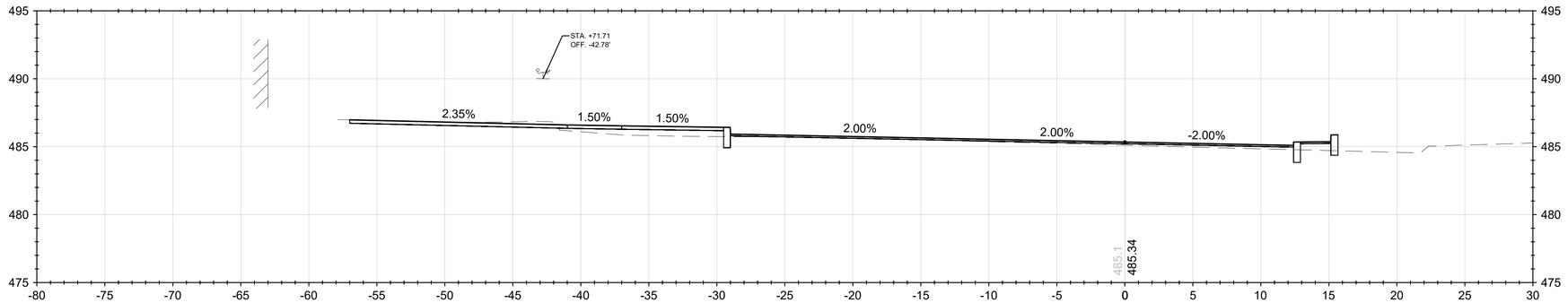

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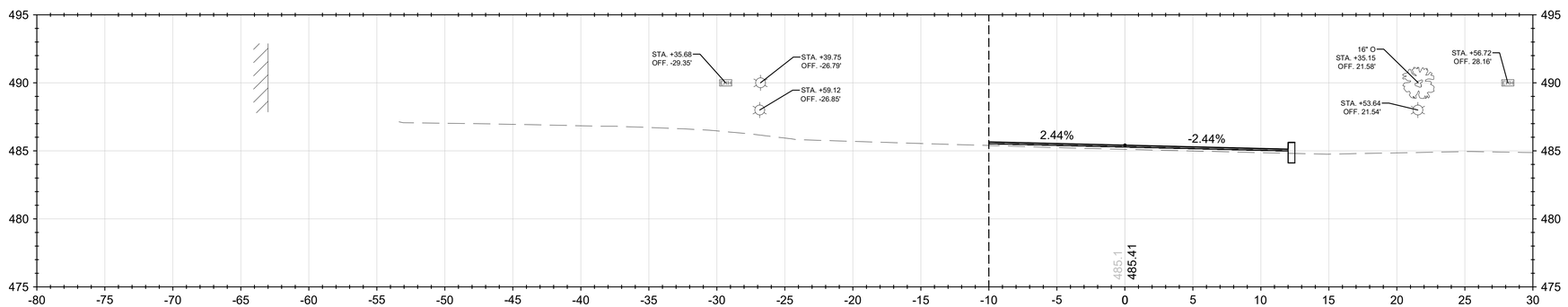

CENTRAL SQUARE - NORTH
801+50.00

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KEENE, NEW HAMPSHIRE

Title

Project No. 179450806

Scale

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Drawing No.

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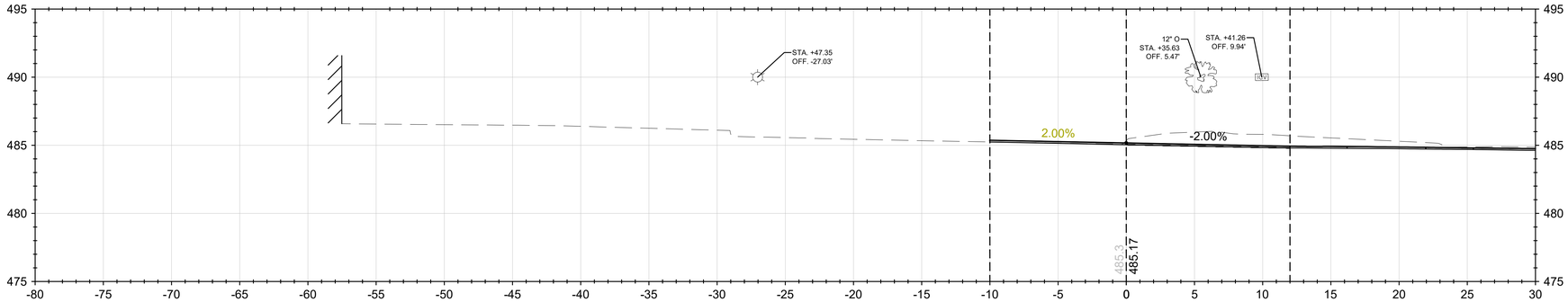

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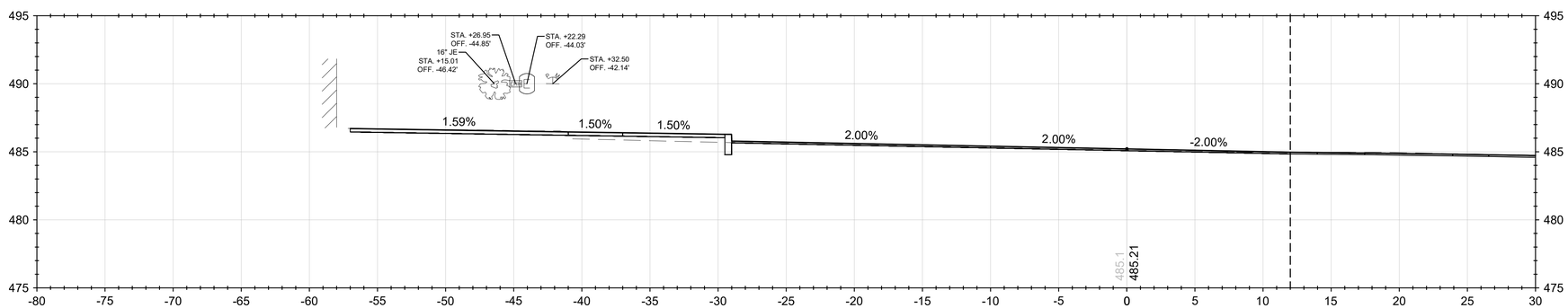

CENTRAL SQUARE - NORTH
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KEENE DOWNTOWN IMPROVEMENTS

KEENE, NEW HAMPSHIRE

Title

Project No.
179450806

Scale

Revision

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of 232

Drawing No.

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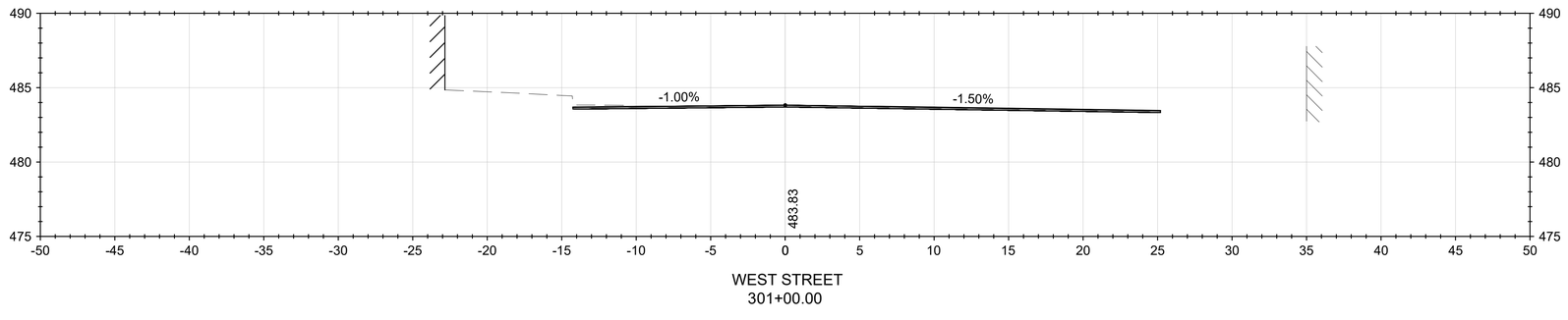

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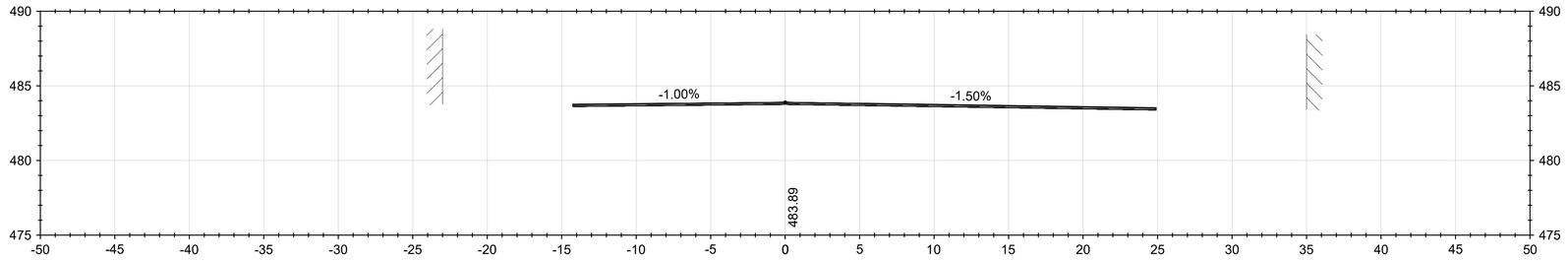

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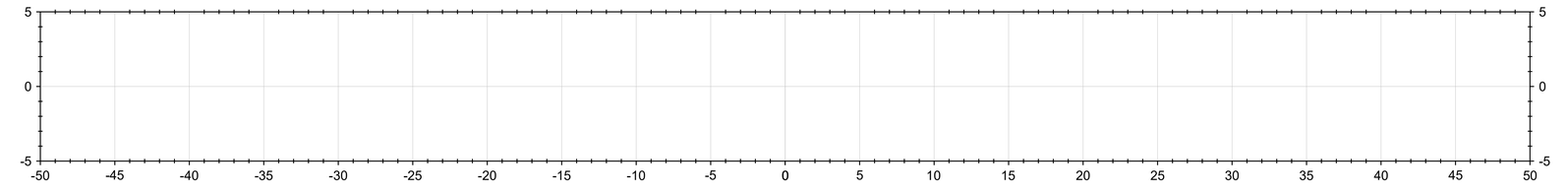

WEST STREET
300+75.00

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KEENE, NEW HAMPSHIRE

Title

Project No.
179450806

Scale

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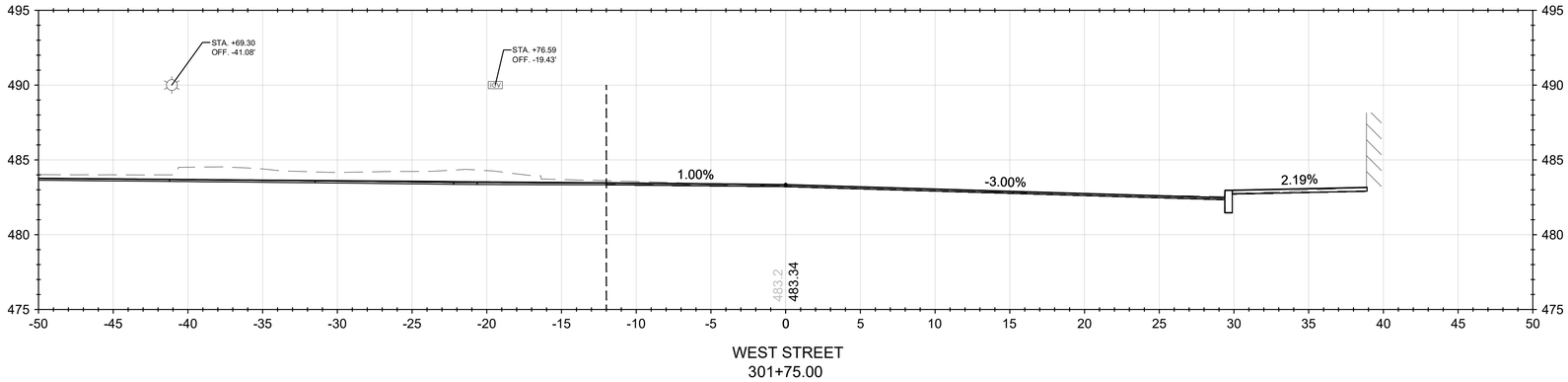

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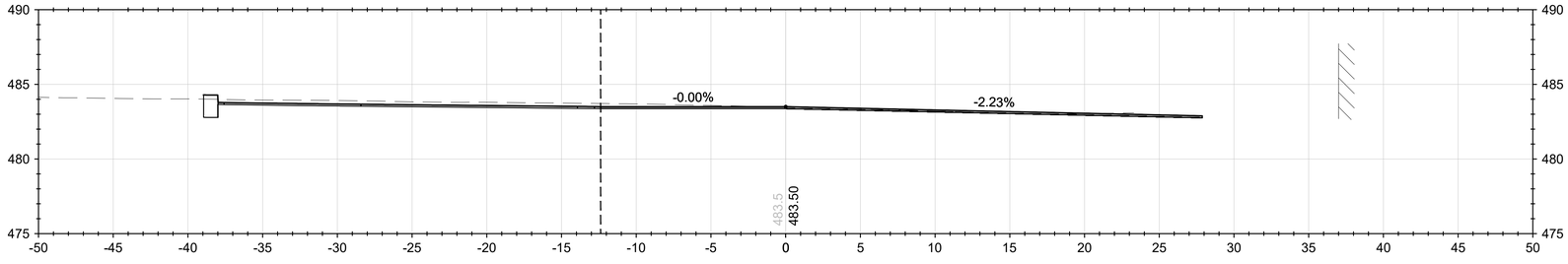

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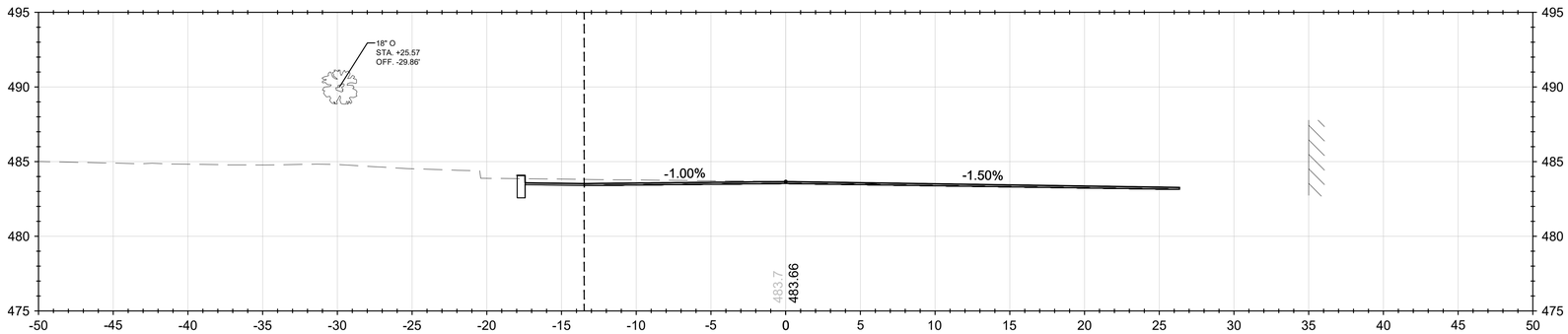

WEST STREET
301+25.00

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KEENE, NEW HAMPSHIRE

Title

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179450806	

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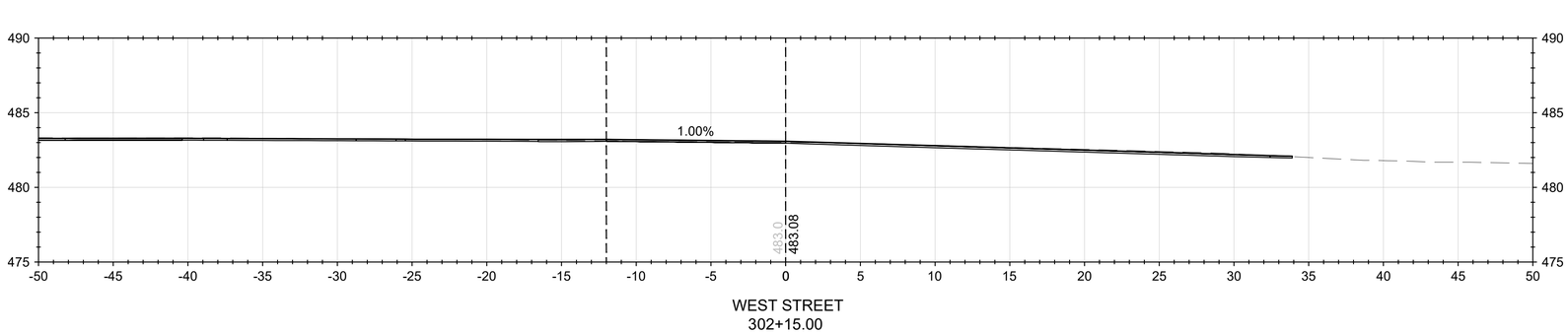
ORIGINAL SHEET - ANSI D



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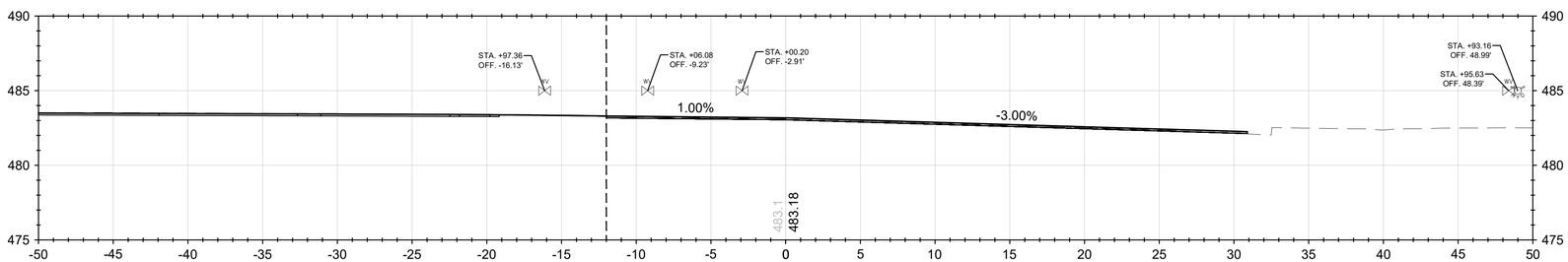

WEST STREET
302+00.00

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179450806

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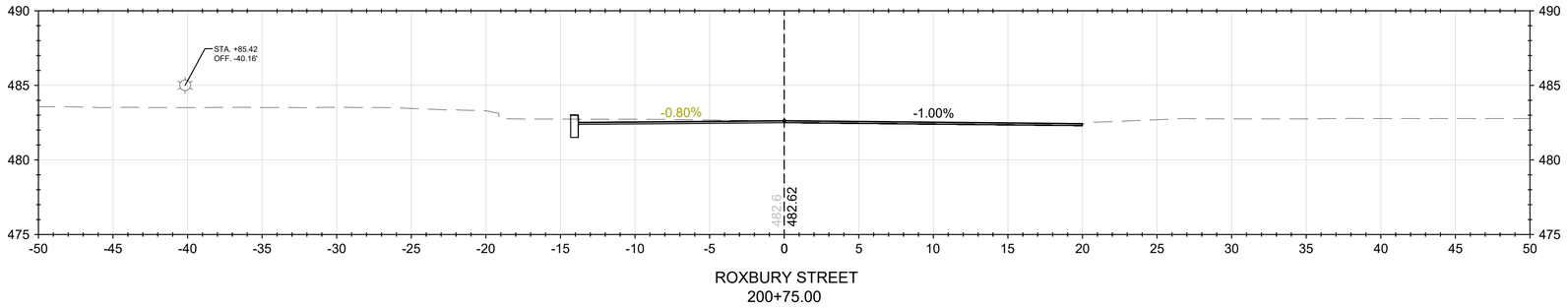
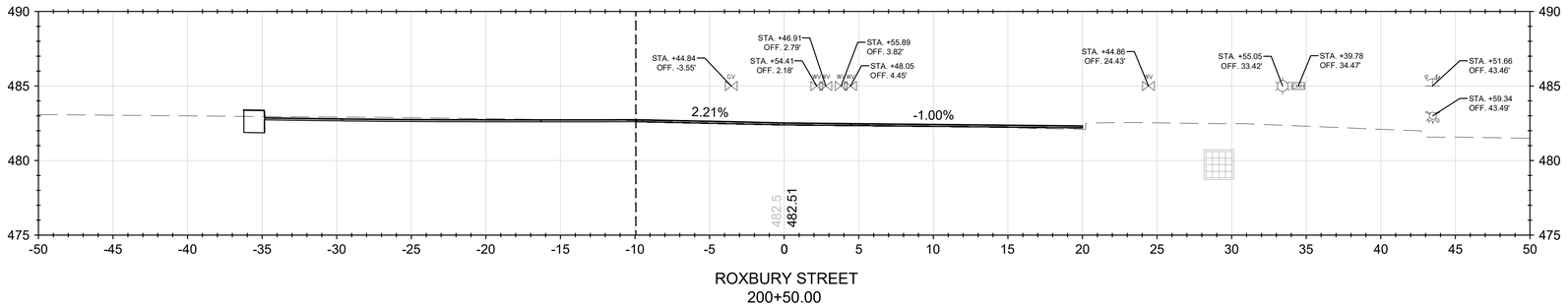


ROXBURY STREET
200+75.00



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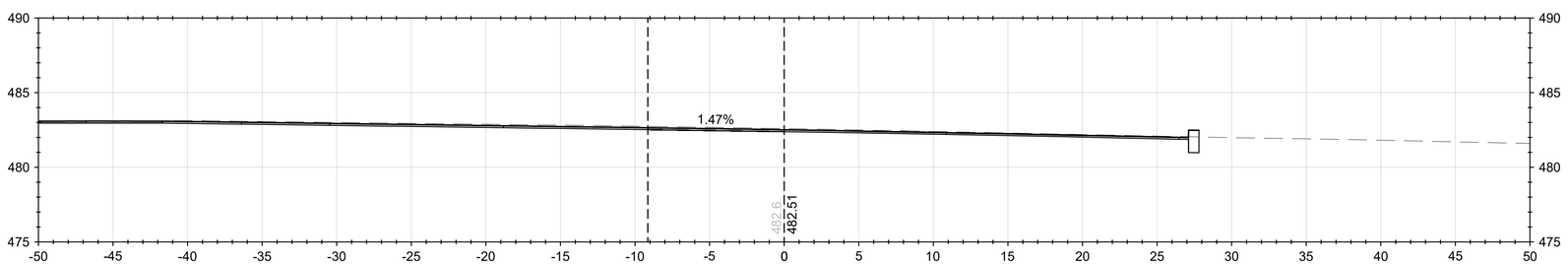

ROXBURY STREET
200+25.00

ORIGINAL SHEET - ANSI D

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179450806

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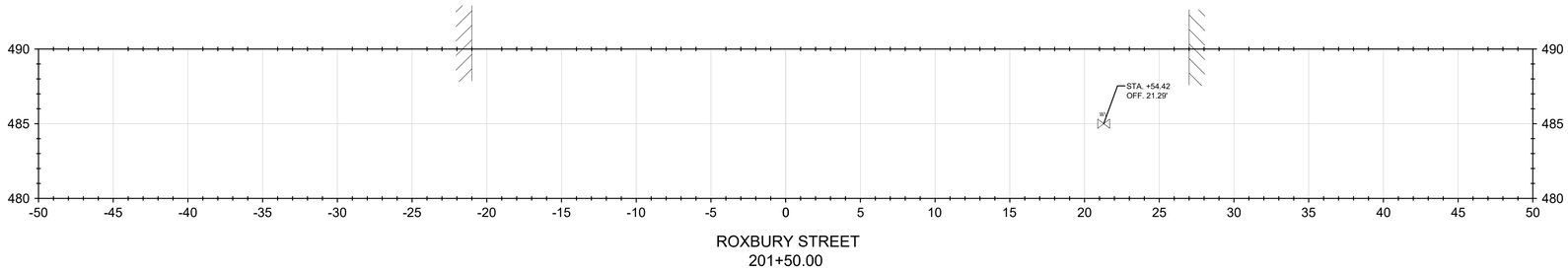

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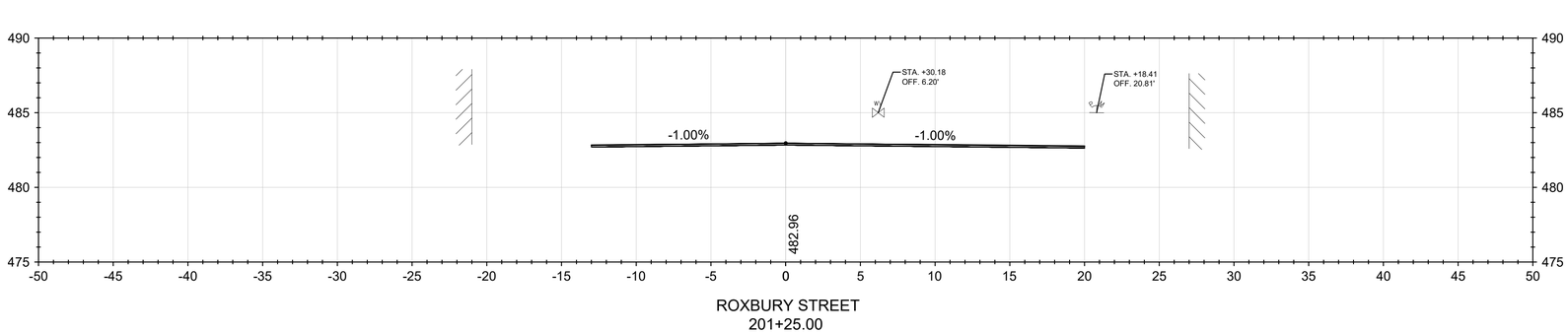

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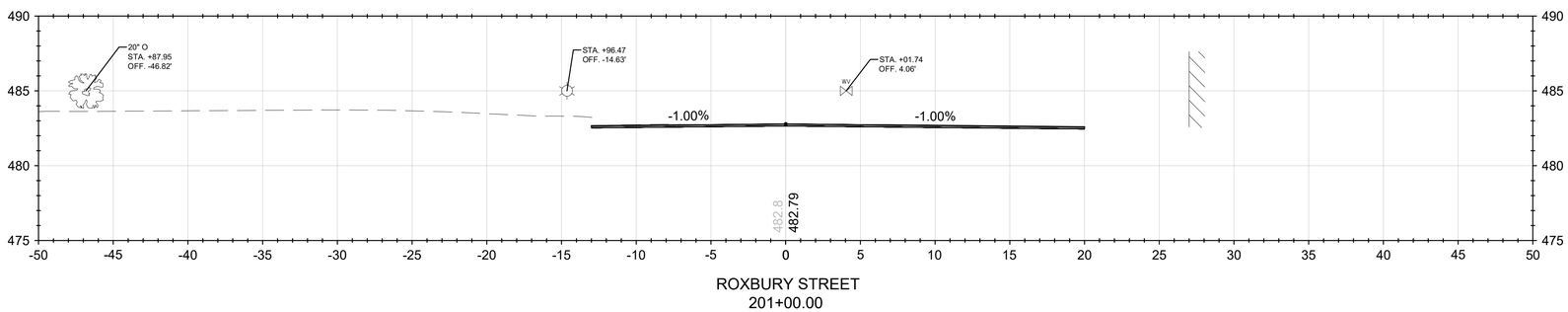

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201+00.00

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179450806

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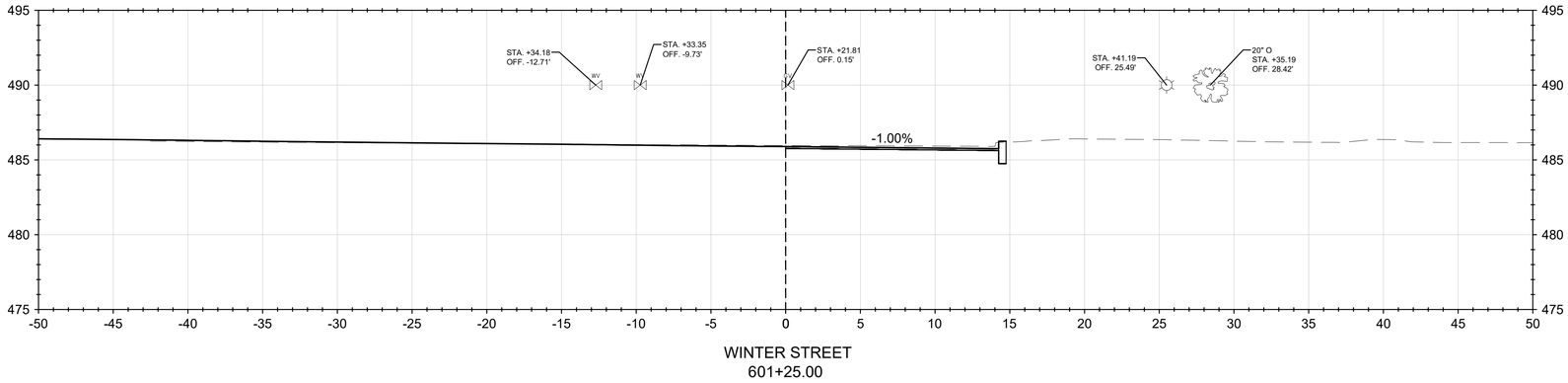

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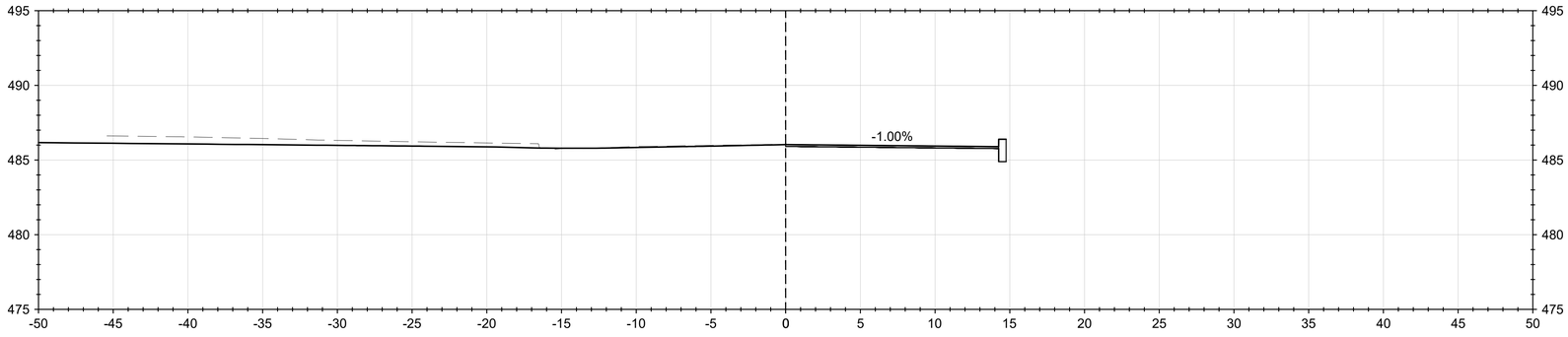

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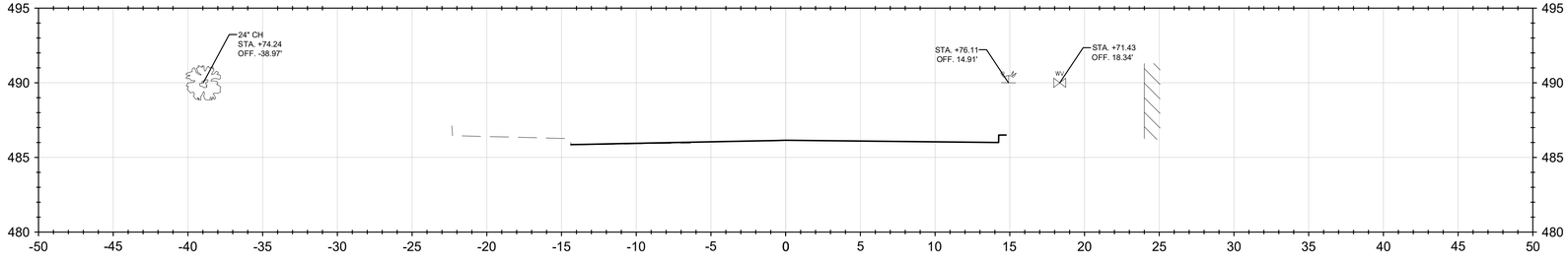

WINTER STREET
600+75.00

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KEENE, NEW HAMPSHIRE

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